# PANDA EXPRESS

S8-22-D8518

## ALCOVY ROAD & GINKO LANE
## COVINGTON, GEORGIA 30014


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Scale= NTS | G-001


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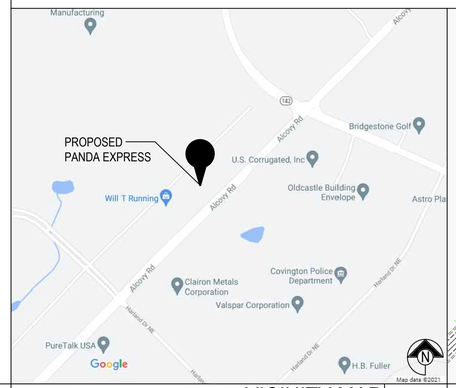
## JURISDICTIONAL AUTHORITIES

Scale= NTS | G-001

1. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FULLY EXAMINE THE SITE CONDITION, AND AVAILABLE UTILITIES AND TO NOTIFY THE OWNER'S REPRESENTATIVE, IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THE SAID EXISTING CONDITIONS AND THESE DRAWINGS. NO CLAIMS FOR ADDITIONAL COMPENSATION SHALL BE MADE OR SHALL BE VALID UNLESS WRITTEN NOTIFICATION IS RECEIVED BY THE OWNER'S REPRESENTATIVE AND THE ADDITIONAL COMPENSATION IS APPROVED IN ADVANCE OF PROCEEDING WITH THE WORK.
2. IN ADDITION TO THE GENERAL NOTES LISTED HEREIN, A.I.A. DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION SHALL APPLY.
3. ALL WORK SHALL BE PERFORMED AS TO COMPLY WITH ALL GOVERNING STATUTES, ORDINANCES, REGULATIONS, CODES AND INSURANCE RATING BOARDS. NO WORK SHALL COMMENCE UNTIL ALL GOVERNMENTAL AND JURISDICTIONAL PERMITS AND APPROVALS ARE OBTAINED.
4. ALL WORK SHALL BE PERFORMED IN A FIRST CLASS MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF.
5. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR INSTALL OR PERMIT TO BE INSTALLED, ANY MATERIALS CONTAINING ASBESTOS.
6. THE TERM "OWNER" OR "TENANT" SHALL REFER TO PANDA EXPRESS AND ITS AGENTS OR REPRESENTATIVES. THE TERM "GENERAL CONTRACTOR" AND "G.C." SHALL REFER TO THE PERSON AND/OR PERSONS WHO HAVE CONTRACTED OR SUBCONTRACTED FOR THE WORK.
7. THE ABBREVIATION OF "N.I.C." INDICATES WORK AND OR MATERIAL THAT IS NOT IN THE CONTRACT OF THE GENERAL CONTRACTOR, HOWEVER THIS DOES NOT RELIEVE THE G.C. OF THE RESPONSIBILITY OF COORDINATION.
8. NOT USED.
9. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDIVIDUALLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
10. ALL WALL & CEILING CONSTRUCTION SHALL BE SUPPORTED BY STRUCTURE & NOT BY ROOF DECK IF APPLICABLE.
11. ALL REQUIRED SUBMITTALS THAT DO NOT BEAR CONTRACTOR'S APPROVAL STAMP AND INITIALS, WILL BE RETURNED WITHOUT ACTION. INCOMPLETE SUBMITTALS ARE UNACCEPTABLE, WILL BE CONSIDERED NONRESPONSIVE, AND WILL BE RETURNED FOR RESUBMITTAL WITHOUT REVIEW. ALL SUBMITTALS RECEIVED BY ARCHITECT NOT INDICATED AS REQUIRED WILL BE RETURNED AND MARKED "NOT REVIEWED". OWNER MAY REQUIRE REVIEW OF SUBMITTALS NOT INDICATED AS REQUIRED
12. IT IS THE G.C.'S RESPONSIBILITY TO MAKE SURE EACH SUB HAS THE FULL SET OF DRAWINGS FROM WHICH TO BASE THEIR ESTIMATE. IF CONFLICTS ARISE AFTER THE BID, THE G.C. ACCEPTS FULL RESPONSIBILITY FOR COST INCREASES IF THE SUB WAS NOT GIVEN THE FULL SET OF DRAWINGS.

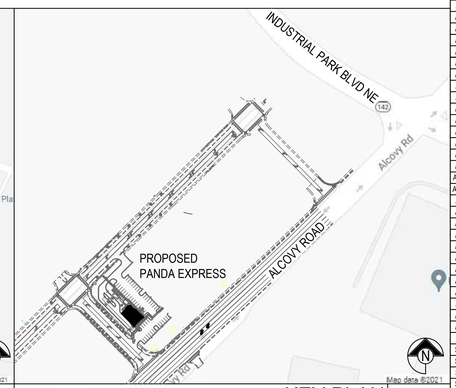
## GENERAL NOTES

Scale= NTS | G-001




## VICINITY MAP

Scale= NTS | G-001




## KEY PLAN

Scale= NTS | G-001

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| ALUM | ALUMINUM |
| BD | BOARD |
| BV | BALL VALVE (FULL PORT) |
| BO | BOTTOM OF |
| C | CONDUIT |
| CLR | CLEAR |
| CO | CONDUIT ONLY |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CW | COLD WATER |
| (E) | EXISTING |
| EC | ELECTRICAL CONTRACTOR |
| EIFS | EXTERIOR INSULATION & FINISH SYSTEM |
| EWH | ELECTRICAL WATER HEATER |
| EXT | EXTERIOR |
| FOF | FACE OF FINISH |
| FOS | FACE OF STUD |
| FRP | FIBERGLASS REINFORCED PLASTIC |
| FS | FLOOR SINK |
| FT | FOOT, FEET |
| GA | GAUGE |
| GC | GENERAL CONTRACTOR |
| GYP | GYPSUM |
| H | HIGH |
| HM | HOLLOW METAL |
| HW | HOT WATER |
| ID | INDIRECT DRAIN |
| INSUL | INSULATION, INSULATED |
| INT | INTERIOR |
| KEC | KITCHEN EQUIP. CONTRACTOR |
| LL | LANDLORD |
| MA | MAXIMUM |
| MC | MECHANICAL CONTRACTOR |
| MFG | MANUFACTURER |
| MIN | MINIMUM |
| (N) | NEW |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NTS | NOT TO SCALE |
| OA | OUTSIDE AIR |
| OC | ON CENTER |
| PC | PLUMBING CONTRACTOR |
| P-LAM | PLASTIC LAMINATE |
| PT | PRESSURE TREATED |
| PX | PANDA EXPRESS |
| QTY | QUANTITY |
| RAR | RETURN AIR REGISTER |
| RIH | ROUGH-IN HEIGHT |
| RM | ROOM |
| RO | ROUGH OPENING |
| SC | SOLID CORE |
| SPECS | SPECIFICATIONS |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STL | STEEL |
| STRUCT | STRUCTURE, STRUCTURAL |
| SYM | SYMBOL |
| TO | TOP OF |
| WCO | WASTE CLEAN OUT |
| WIC | WALK-IN COOLER |
| WIF | WALK-IN FREEZER |
| WRB | WATER RESISTIVE BARRIER |

## ABBREVIATIONS

Scale= NTS | G-001

D1 — DOOR NUMBER
W1 — WINDOW TYPE
TA — FLOOR FINISH
W4 — WALL TYPE
1 — STRUCTURAL GRID
C1 — CEILING FINISH
P-C — WALL FINISH
34 — KITCHEN EQUIPMENT
101 — ROOM NUMBER
MARK OF ELEVATION
A/A1.0 — DETAIL
A / A-2.0 — SECTION
NEW DOOR
T — TEMPERED GLAZING
A / A-2.0 — EXT. ELEVS / INT. ELEVS

## SYMBOLS

Scale= NTS | G-001

APPLICABLE CODES: ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

### CODE

| |
|---|
| 2018 INTERNATIONAL BUILDING CODE w/ 2020 GEORGIA STATE AMENDMENTS |
| 2018 INTERNATIONAL PLUMBING CODE w/ 2020 GEORGIA STATE AMENDMENTS |
| 2018 INTERNATIONAL MECHANICAL CODE w/ 2020 GEORGIA STATE AMENDMENTS |
| 2020 NATIONAL ELECTRICAL CODE (NFPA 70) |
| 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN |
| 2015 INTERNATIONAL ENERGY CONSERVATION CODE |
| 2018 INTERNATIONAL FIRE CODE w/ 2020 GEORGIA STATE AMENDMENTS |
| 2020 LIFE SAFETY CODE (NFPA 101) |

### SITE INFORMATION

| | |
|---|---|
| SITE AREA | 43,560 SQ.FT. |
| LOT COVERAGE (FLOOR AREA RATIO) | 0.056 |
| LANDSCAPE PROVIDED | 13,503.6 SQ. FT. |
| PARKING PROVIDED | 49 |

### PANDA EXPRESS

| | |
|---|---|
| RESTAURANT AREA | 2,422 S.F. |
| EMPLOYEES | 3 EMPLOYEES / SHIFT (2 SHIFTS PER DAY) |
| INDOOR SEATING | 48 |
| OUTDOOR SEATING | 0 |

### OCCUPANT LOAD CALCULATION

| | | |
|---|---|---|
| SEATING CAPACITY | | 48 |
| KITCHEN | 968 SQ. FT. / (200 / SQ. FT.) = | 11 |
| ACCESSORY STORAGE (WIF) | 50 SQ. FT. / (300 / SQ. FT.) = | 1 |
| ACCESSORY STORAGE (WIC) | 113 SQ. FT. / (300 / SQ. FT.) = | 1 |
| | TOTAL = | 61 |
| OUTDOOR DINING | 0 SQ. FT. / (15 / SQ. FT.) = | 0 |
| | TOTAL OCCUPANT LOAD = | 61 |

### PLUMBING FIXTURES (TABLE 403.1 2000 IPC)

| TYPE OF OCCUPANCY | MOP SINK | WATER CLOSET | | LAVATORY | |
|---|---|---|---|---|---|
| | | MALE | FEMALE | MALE | FEMALE |
| RESTAURANT (A-2) | 1 | 1 PER 75 | 1 PER 75 | 1 PER 200 | 1 PER 200 |
| REQUIRED | 1 | 1 | 1 | 1 | 1 |
| PROVIDED | 1 | 1 | 1 | 1 | 1 |

TOTAL OCCUPANCY = 61 — MALE = 31 — FEMALE = 31

**NOTE: 1. CANOPIES AND ACCESSORIES - SEPARATE DOCUMENT**
**2. SIGNS TO BE SUBMITTED UNDER SEPARATE PERMIT**
**3. TRUSS ENGINEERING - SEPARATE DOCUMENT**

### BUILDING CODE ANALYSIS

| | |
|---|---|
| OCCUPANCY CLASSIFICATION | GROUP A-2 (ASSEMBLY) |
| TYPE OF CONSTRUCTION | V-B |
| FIRE SPRINKLER | NOT SPRINKLERED |

| | PROVIDED | REQUIRED / ALLOWED |
|---|---|---|
| HEIGHT | 22'-6" | 40' |
| STORY | 1 | 1 |
| AREA | 2,422 SQ. FT. | 6,000 SQ. FT. |
| OCCUPANT LOAD | 84 | - |
| EXITS | 3 | 2 |
| EGRESS WIDTH | 120" | 61 X 0.2 = 12.2" |

## CODE ANALYSIS

Scale= NTS | G-001

## SHEET INDEX

Scale= NTS | G-001

| | | 12.30.21 PERMIT COMMENTS | 02.08.22 ISSUE FOR BID | REMARKS |
|---|---|---|---|---|
| **GENERAL** | | | | |
| G-001 | TITLE SHEET | | X | X |
| G-002 | SPECIFICATIONS | X | X | X |
| G-003 | SPECIFICATIONS | X | X | X |
| G-004 | SPECIFICATIONS | X | X | X |
| G-005 | SCHEDULES | X | X | X |
| **CIVIL (UNDER SEPARATE PERMIT)** | | | | |
| C01.0 | COVER SHEET | X | X | X |
| C01.1 | GENERAL NOTES | X | X | X |
| C02.0 | ALTA/ACSM SURVEY | X | X | X |
| C02.1 | DEMOLITION PLAN | X | X | X |
| C03.0 | SITE PLAN | X | X | X |
| C03.1 | STAKING PLAN | X | X | X |
| C03.2 | HARDSCAPE DETAILS I | X | X | X |
| C03.3 | HARDSCAPE DETAILS II | X | X | X |
| C03.4 | HARDSCAPE DETAILS III | X | X | X |
| C03.5 | HARDSCAPE DETAILS IV | X | X | X |
| C04.0 | UTILITY PLAN | X | X | X |
| C04.1 | UTILITY DETAILS I | X | X | X |
| C04.2 | UTILITY DETAILS II | X | X | X |
| C04.3 | UTILITY DETAILS III | X | X | X |
| C04.4 | UTILITY DETAILS IV | X | X | X |
| C04.5 | PIPE PROFILES I | X | X | X |
| C04.6 | PIPE PROFILES II | X | X | X |
| C05.0 | GRADING AND DRAINAGE PHASE | X | X | X |
| C05.1 | BUILDING DRAINAGE DETAIL PLAN | X | X | X |
| C06.0 | SWPP PLAN | X | X | X |
| C06.1 | ESPC PLAN - CLEARING PHASE | X | X | X |
| C06.2 | ESPC PLAN - GRADING PHASE | X | X | X |
| C06.3 | ESPC PLAN - FINAL PHASE | X | X | X |
| C06.4 | ESPC DETAILS I | X | X | X |
| C06.5 | ESPC DETAILS II | X | X | X |
| C06.6 | ESPC DETAILS III | X | X | X |
| C06.7 | ESPC DETAILS IV | X | X | X |
| C06.8 | ESPC DETAILS V | X | X | X |
| C06.9 | ESPC DETAILS VI | X | X | X |
| C06.10 | ESPC DETAILS VII | X | X | X |
| C06.11 | ESPC DETAILS VIII | X | X | X |
| **LANDSCAPE (UNDER SEPARATE PERMIT)** | | | | |
| LP200 | LANDSCAPE PLAN | X | X | X |
| LP500 | LANDSCAPE DETAILS | X | X | X |
| SL1.0 | PHOTOMETRIC PLAN | X | X | X |
| **ARCHITECTURAL** | | | | |
| A -100 | ARCHITECTURAL SITE PLAN | X | X | X |
| LSP-101 | LIFE SAFETY PLAN | X | X | X |
| A -101 | KITCHEN PLAN | X | X | X |
| A -102 | ROUGH - IN PLUMBING PLAN | X | X | X |
| A -103 | FLOOR PLAN | X | X | X |
| A -104 | FINISH PLAN AND SCHEDULE | X | X | X |
| A -105 | REFLECTED CEILING PLAN | X | X | X |
| A -106 | FRETWORK PLAN | X | X | X |
| A -107 | ROOF PLAN | X | X | X |
| A -108 | CONDENSER RACK DETAIL | X | X | X |
| A -109 | FURNITURE PLAN | X | X | X |
| A -200 | EXTERIOR ELEVATIONS | X | X | X |
| A -201 | EXTERIOR ELEVATIONS | X | X | X |
| A -301 | WALL SECTIONS | X | X | X |
| A -302 | WALL SECTIONS | X | X | X |
| A -303 | WALL SECTIONS | X | X | X |
| A -304 | WALL SECTIONS | X | X | X |
| A -305 | SECTIONS/DETAILS | X | X | X |
| A -306 | SECTIONS/DETAILS | X | X | X |
| A -400 | ARCHITECTURAL DETAILS | X | X | X |
| A -400.1 | ARCHITECTURAL DETAILS | X | X | X |
| A -400.2 | ARCHITECTURAL DETAILS | X | X | X |
| A -401 | ARCHITECTURAL DETAILS | X | X | X |
| A -402 | ARCHITECTURAL DETAILS | X | X | X |
| A -403 | ARCHITECTURAL DETAILS | X | X | X |
| A -404 | ARCHITECTURAL DETAILS | X | X | X |
| A -405 | ARCHITECTURAL DETAILS - DRIVE THRU | X | X | X |
| A -406 | ACCESSIBILITY NOTES AND DETAILS | X | X | X |
| A -407 | TRASH ENCLOSURE DETAILS | X | X | X |
| A -408 | WATER HEATER SHELF DETAILS | X | X | X |
| A -500 | INTERIOR ELEVATIONS | X | X | X |
| A -501 | INTERIOR ELEVATIONS | X | X | X |
| A -502 | KITCHEN ELEVATIONS | X | X | X |
| A -503 | ENLARGED RESTROOM PLANS AND ELEVATIONS | X | X | X |
| **STRUCTURAL** | | | | |
| S - 000 | STRUCTURAL NOTES & SPECIAL INSPECTIONS | X | X | X |
| S - 100 | FOUNDATION PLAN | X | X | X |
| S - 101 | ROOF FRAMING PLAN | X | X | X |
| S - 200 | FOUNDATION DETAILS | X | X | X |
| S - 201 | TYPICAL FOUNDATION DETAILS | X | X | X |
| S - 300 | FRAMING SECTIONS | X | X | X |
| S - 301 | TYPICAL FRAMING DETAILS & SECTIONS | X | X | X |
| **PLUMBING** | | | | |
| P - 100 | WATER AND GAS PLAN | X | X | X |
| P - 101 | WASTE & VENT PLAN | X | X | X |
| P - 400 | WATER/GAS/WASTE & VENT RISER DIAGRAMS | X | X | X |
| P - 500 | PLUMBING DETAILS | X | X | X |
| **MECHANICAL** | | | | |
| M-000 | MECHANICAL NOTES, SPECIFICATIONS & SCHEDULES | X | X | X |
| M-100 | HVAC FLOOR PLAN & HVAC ROOF PLAN | X | X | X |
| M-400 | HOOD DETAIL PLAN | X | X | X |
| M-401 | HOOD DETAIL PLAN | X | X | X |
| M-402 | HOOD DETAIL PLAN | X | X | X |
| M-403 | HOOD DETAIL PLAN | X | X | X |
| M-404 | HOOD DETAIL PLAN | X | X | X |
| M-500 | KITCHEN HOOD DETAILS | X | X | X |
| M-501 | MECHANICAL DETAILS | X | X | X |
| **ELECTRICAL** | | | | |
| E-000 | ELECTRICAL SYMBOLS, SPECIFICATIONS, NOTES | X | X | X |
| E-001 | ELECTRICAL SCHEDULES | X | X | X |
| E-100 | POWER FLOOR PLAN | X | X | X |
| E-101 | LIGHTING FLOOR PLAN | X | X | X |
| E-101.1 | CANOPY LIGHTING PLAN | | | |
| E-102 | SECURITY CAMERA PLAN | X | X | X |
| E-104 | ROOF POWER PLAN | X | X | X |
| E-105 | SITE & EXTERIOR LIGHTING PLAN | X | X | X |
| E-106 | SITE PHOTOMETRIC PLAN | X | X | X |
| E-200 | ELECTRICAL ELEVATIONS | X | X | X |
| E-400 | ELECTRICAL DETAILS, DIAGRAMS | X | X | X |
| E-401 | ELECTRICAL DETAILS, DIAGRAMS | X | X | X |
| E-601 | PANELS, SINGLE LINE, LOAD CALC'S. | X | X | X |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REVISIONS:

| | |
|---|---|
| 1 | 12.30.21 PERMIT COMMENTS |
| 2 | 02.08.22 ISSUE FOR BID |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV, AGE

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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COVINGTON, GEORGIA 30014

G-001

TITLE SHEET

TRUE WARM & WELCOME 2300 R6

# GENERAL CONDITIONS FOR THE CONTRACT FOR CONSTRUCTION

ARTICLE 1 - GENERAL PROVISIONS

1. THE STANDARD FORM OF GENERAL CONDITIONS, CURRENT EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS, DOCUMENT NO A-201, ARE HEREBY MADE A PART OF THESE SPECIFICATIONS AND SHALL APPLY THE SAME AS IF REPEATED HERE IN FULL. COPIES OF SAME SHALL BE ON FILE AT THE OFFICE OF THE ARCHITECT.

2. ALL INTERESTED PARTIES SHALL BE GOVERNED BY THOSE GENERAL CONDITIONS IN ALL MATTERS PERTAINING TO THIS PROJECT, DURING THE PERIOD OF CONSTRUCTION, AND PARTICIPATION IN THE PROJECT WILL BE CONSIDERED PRESUMPTIVE EVIDENCE OF THE PARTICIPANT'S FULL UNDERSTANDING OF, AND AGREEMENT WITH, THE CONDITIONS OF THE REFERENCED GENERAL CONDITIONS.

3. THE GENERAL CONDITIONS, SPECIAL PROVISIONS, GENERAL REQUIREMENTS, AND TECHNICAL SPECIFICATIONS, ALONG WITH THE OTHER CONDITIONS WHICH FOLLOW, AND AS PROVIDED, AS WELL AS ALL APPLICABLE PROVISIONS OF THE SPECIFICATIONS, FORM A PART OF THE CONTRACT AND SHALL GOVERN EACH CONTRACTOR ENGAGED IN WORK ON THE PROJECT WHETHER THE WORK BE LET UNDER SEPARATE CONTRACTS OR UNDER A SINGLE CONTRACT.

4. BASIC DEFINITIONS:
THE CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT AND ALL DOCUMENTS LISTED BELOW.

THE CONTRACT DOCUMENTS SHALL INCLUDE: DRAWINGS AS LISTED IN THE INDEX OF THIS SET. SPECIFICATION DIVISION 1-16 INCLUSIVE. ALL MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. EQUIPMENT INSTALLATION HAND BOOK.

5. PHRASES USED IN THE SPECIFICATIONS ARE DEFINED AS FOLLOWS:
"AS SHOWN" - AS SHOWN ON THE ACCOMPANYING DRAWINGS.

"PROVIDE" - PROVIDE AND INSTALL COMPLETE, WITH ALL NECESSARY ACCESSORIES AND INCIDENTAL MATERIALS AND SUPPLIES.

"PROVIDED BY OWNER" - MATERIALS OR GOODS WILL BE DELIVERED FREIGHT ON BOARD (FOB) TO JOBSITE BY THE OWNER AT NO EXPENSE TO THE GENERAL CONTRACTOR. UNLOADING, STORAGE, INSTALLATION, AND/OR ASSEMBLY OF ITEMS "PROVIDED BY OWNER" SHALL BE BY
GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.

"INSTALL" - INSTALL ITEMS, COMPLETE, PROVIDING ALL INCIDENTAL AND NECESSARY SUPPLIES AND MATERIALS.

"GENERAL CONTRACTOR" - THE GENERAL CONTRACTOR OR ANY OR ALL OF HIS VARIOUS SUBCONTRACTORS.

"OWNER" - ALL GENERAL CONDITIONS REFERENCES TO "OWNER" SHALL REFER TO PANDA EXPRESS, INC.

"CONTRACTOR" AND "GENERAL CONTRACTOR" AS STATED IN THESE DOCUMENTS REFER TO THE SAME ENTITY.

ARTICLE 2 - INSURANCE

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO OBTAIN THE FOLLOWING INSURANCES, AND, AT THEIR REQUEST, FURNISH EVIDENCE TO PANDA EXPRESS. ALL INSURANCE SHALL NAME PANDA RESTAURANT GROUP, INC., AND THE ARCHITECTS, AS ADDITIONAL INSURED PARTIES.

WORKMAN'S COMPENSATION INSURANCE IN ACCORDANCE WITH THE LAWS OF THE STATE IN WHICH THE PROPERTY IS LOCATED AND PANDA EXPRESS REQUIREMENTS. PANDA EXPRESS SHALL KEEP A COPY IN FILE ALL TIME.

COMPREHENSIVE GENERAL LIABILITY INSURANCE INCLUDING CONTRACTUAL LIABILITY WITH LIMITS SET FORTH BY THE PANDA EXPRESS.

AUTOMOBILE LIABILITY INSURANCE INCLUDING CONTRACTUAL LIABILITY AS SET FORTH BY THE PANDA EXPRESS.

BUILDER'S RISK INSURANCE IN THE AMOUNT OF THE ESTIMATED COST OF THE PROJECT.

THE CONTRACTOR AGREES TO INDEMNIFY AND SAVE HARMLESS PANDA EXPRESS, ITS AGENTS, SERVANTS, AND EMPLOYEES, AND THE OWNER'S ARCHITECT AND ENGINEER FROM AND AGAINST ANY AND ALL LIABILITY OR DAMAGE TO PROPERTY OCCASIONED BY ANY ACT OR OMISSION OF THE CONTRACTOR, HIS SUBCONTRACTORS, SERVANTS, OR EMPLOYEES, INCLUDING ANY AND ALL EXPENSE, LEGAL OR OTHERWISE, WHICH MAY BE INCURRED BY PANDA EXPRESS, ITS AGENTS SERVANTS, OR EMPLOYEES IN THE DEFENSE OF ANY CLAIM, SETTLEMENT OR SUIT.

ARTICLE 3 EXTRA WORK

1. ANY AND ALL WORK WHICH IS PERFORMED BY THE CONTRACTOR, OR BY ANY SUBCONTRACTOR, WITHOUT HAVING SPECIFIC APPROVAL FROM PANDA EXPRESS IN WRITING, SHALL BE PERFORMED BY SAID CONTRACTOR AT HIS OWN RISK WITHOUT ANY OBLIGATION OR RESPONSIBILITY OF PANDA EXPRESS OR THE ARCHITECT. ALL WORK WHICH IS ABOVE AND BEYOND THE SCOPE OF THE DRAWINGS AND SPECIFICATIONS, OR ANY PART OF THE CONSTRUCTION DOCUMENTS, MUST BE SPECIFICALLY AUTHORIZED BY PANDA EXPRESS IN WRITING. ALL REQUESTS FOR ADDITIONAL PAYMENTS MUST BE APPROVED BY THE OWNER PRIOR TO THE START OF THAT WORK.

2. THE FOLLOWING GENERAL REQUIREMENTS SUPPLEMENT AND/OR SUPERSEDE THE FOREGOING GENERAL AND SUPPLEMENTARY CONDITIONS FOR CONTRACT WORK AND ARE HEREBY CONSIDERED A PART OF THE CONTRACT DOCUMENTS.

# DIVISION 1 GENERAL REQUIREMENTS

1. SCOPE

ALL OF THE WORK UNDER EACH HEADING OF THESE SPECIFICATIONS SHALL BE GOVERNED BY THE GENERAL CONDITIONS, SPECIAL PROVISIONS, THE DRAWINGS AND THE SPECIFICATIONS, AS WELL AS THE FOLLOWING GENERAL REQUIREMENTS

THE WORK UNDER EACH HEADING OF THESE SPECIFICATIONS SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR AND SAID HEADING AS INDICATED ON THE DRAWINGS, SET FORTH IN THE SPECIFICATIONS, OR OTHERWISE REQUIRED.

WORK DONE HEREUNDER INCLUDES FURNISHING ALL LABOR, MATERIAL SERVICES, AND EQUIPMENT NECESSARY AND/OR INCIDENTAL TO PERFORM ALL WORK THROUGH THE PROPER COMPLETION OF ALL WORK AS MAY BE FURTHER SPECIFIED AND/OR SHOWN ON THE PLANS, OR OTHERWISE REQUIRED.

2. CONFLICTS BETWEEN DOCUMENTS

IN CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS THE CONTRACTOR WILL BE DEEMED TO HAVE ESTIMATED ON, AND AGREED TO PROVIDE, THE GREATEST QUANTITY AND BETTER QUALITY OF MATERIALS AND WORK.

INCLUDE GENERAL CONSTRUCTION, ELECTRICAL, PLUMBING, HVAC, AND INSTALLATION OF ALL SUCH WORK EXCEPT AS HEREINAFTER MAY BE REQUIRED.

3. ITEMS FURNISHED BY PANDA AND INSTALLED BY GENERAL CONTRACTOR

IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO RECEIVE, CHECK AND CONFIRM THE ARRIVAL IN GOOD ORDER, OF ALL ITEMS CALLED FOR TO BE FURNISHED BY PANDA EXPRESS AND INSTALLED BY THE CONTRACTOR.

THE CONTRACTOR SHALL NOTIFY PANDA EXPRESS (IN WRITING) OF ANY SUCH ITEMS MISSING OR DAMAGED WITHIN 3 DAYS OF RECEIVING DATE. FAILURE TO SO NOTIFY PANDA EXPRESS WILL BE CONSIDERED PROOF PRESUMPTIVE THAT ALL SAID ITEMS HAVE ARRIVED UNDAMAGED, AND IN THE PROPER QUANTITIES, AND IT SHALL THEN BE THE CONTRACTOR'S RESPONSIBILITY (AT HIS OWN COST) TO PROMPTLY REORDER, REPLACE AND/OR REPAIR ANY SUCH ITEMS NEEDED FOR THE PROPER COMPLETION OF THIS PROJECT, ON THE AGREED TO DATE OF COMPLETION.

4. MEASUREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR AN ACCURATE TAKING OF JOB SITE MEASUREMENTS, VERIFYING SAME, AND PROMPTLY FURNISHING EXACT JOB SITE MEASUREMENTS TO ALL PARTIES REQUIRING SAME. CONTRACTOR MUST NOTIFY PANDA EXPRESS AND THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. THE CONTRACTOR SHALL CHECK SALES CASEWORK SHOP DRAWINGS AS TO CORRECT ANGLES AND FIT TO THE EXISTING SPACE AS SHOWN. THE CONTRACTOR SHALL PERMANENTLY LAYOUT THE CASEWORK ON THE FLOOR PRIOR TO THE CONSTRUCTION OF WALL, CEILING, LIGHT FIXTURES, ETC.

WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

5. SUBSTITUTIONS

BIDDERS MAY OFFER SUBSTITUTIONS FOR ANY ITEM SPECIFICATION BY SUBMITTING IN WRITING AS OUTLINED IN SPACE PROVIDED ON PROPOSAL FORM.

IT SHALL BE UNDERSTOOD BY ALL HEREIN CONCERNED THAT ANY PROPOSAL SUBSTITUTION SHALL HAVE THE WRITTEN APPROVAL OF ARCHITECT AND/OR OWNER'S REPRESENTATIVE, BEFORE BEING USED BY CONTRACTOR, OTHERWISE IT WILL BE ASSUMED THAT THE CONTRACTOR'S TOTAL BID IS BASED UPON THE MATERIAL OR ITEM OF EQUIPMENT SPECIFIED.

6. EXAMINATION OF SITE AND BUILDING

BEFORE SUBMITTING A PROPOSAL, EACH BIDDER SHALL EXAMINE ALL DOCUMENTS, VISIT THE SITE, VERIFYING ANY SPECIAL CHARGES OR REQUIREMENTS, COMPARING EACH TO THE OTHER AND INFORMING THEMSELVES OF ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. INCLUDE ALL RELEVANT MATTERS WHICH MAY AFFECT THE WORK OR THE BIDDING. EACH BIDDER SHALL BASE HIS PROPOSAL ON MATERIAL, METHODS AND/OR EQUIPMENT COMPLYING WITH THE SPECIFICATIONS AND DRAWINGS.

THE WORDS "THE CONTRACTOR SHALL" ARE INTENTIONALLY OMITTED FROM THE SPECIFICATIONS. WHERE DIRECTIONS OR INSTRUCTIONS ARE STATED, WITHOUT SPECIFIC REFERENCE AS TO WHO IS RESPONSIBLE, THE INFERENCE IS INTENDED TO BE THE CONTRACTOR FOR THE WORK IN THE SPECIFICATION SECTION IN WHICH THE DIRECTIONS OR INSTRUCTIONS ARE INTENDED.

7. CODES AND STANDARDS

ALL WORK, MATERIALS AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL ORDINANCES, STATE AND LOCAL BUILDING CODES, LATEST EDITION, OF THE AUTHORITIES HAVING JURISDICTION.

DESIGN LOADS: LOADS AND CODE RESTRICTIONS FOR ALL DESIGN CONSIDERATIONS SHALL CONFORM TO THE LOCAL AND STATE CODES, AND ALL GOVERNING CODES.

8. PERMITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION FOR AND SECURING OF ALL NECESSARY TRADE PERMITS, AS WELL AS THE OBSERVANCE OF ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL LAWS, REGULATIONS OR ORDINANCES AND SHALL INCLUDE IN THEIR PROPOSAL COST OF SAME.

9. INSTALLATION OF MATERIALS AND EQUIPMENT

ATTENTION IS HEREBY DIRECTED TO THE FOLLOWING REQUIREMENT FOR EACH PRIME AND SUBCONTRACTOR: THAT THE APPLICATION OF A MATERIAL AND/OR EQUIPMENT ITEM TO UNSATISFACTORY WORK INSTALLED BY OTHERS, CONSTITUTES ACCEPTANCE OF THAT WORK AND ASSUMPTION OF FULL RESPONSIBILITY FOR PRIOR TO STARTING THE SPECIFIC APPLICATION, NOTIFY IN WRITING THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE OF ANY DEFECT OR DEFICIENCY WHICH WOULD IMPAIR COMPLETE AND SATISFACTORY APPLICATIONS OR INSTALLATION OF HIS WORK OR GUARANTEE.

MANUFACTURER'S INSTRUCTIONS:
WHERE INSTALLATIONS INCLUDE MANUFACTURED PRODUCTS, COMPLY WITH MANUFACTURER'S APPLICABLE INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION, TO THE EXTENT THESE ARE MORE EXPLICIT OR MORE STRINGENT THAN REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS.

PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS FOR SECURING WORK PROPERLY AS IT IS INSTALLED; TRUE TO LINE AND LEVEL, AND WITHIN RECOGNIZED INDUSTRY TOLERANCES IF NOT OTHERWISE INDICATED. ALLOW FOR EXPANSIONS AND BUILDING MOVEMENTS.

VISUAL EFFECT: PROVIDE UNIFORM JOINT WIDTHS IN EXPOSED WORK, ORGANIZED FOR BEST POSSIBLE VISUAL EFFECT. REFER QUESTIONABLE VISUAL-EFFECT CHOICES TO ARCHITECT/OWNER'S REPRESENTATIVE FOR FINAL DECISION. RECHECK MEASUREMENTS AND DIMENSIONS OF THE WORK, AS AN INTEGRAL STEP OF STARTING EACH INSTALLATION.

MOUNTING HEIGHTS: WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT INDIVIDUAL UNITS OF WORK AT INDUSTRY-RECOGNIZED STANDARD MOUNTING HEIGHTS FOR APPLICATIONS INDICATED. REFER QUESTIONABLE MOUNTING HEIGHT CHOICES TO ARCHITECT/OWNER'S REPRESENTATIVE FOR FINAL DECISION. CONFORM WITH APPLICABLE ACCESSIBILITY CODES WHERE REQUIRED.

10. PROTECTION AND CLEAN-UP

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ADJACENT ITEMS AND SURFACES FROM DAMAGE RESULTING FROM THE FURNISHING OR INSTALLATION OF HIS WORK AND SHALL PROMPTLY REPLACE, AT HIS OWN COST, SUCH DAMAGED WORK. HE SHALL ALSO BE RESPONSIBLE FOR THE PROPER PROTECTION OF HIS AND OTHERS WORK FROM DAMAGE BY ANY INCLUDING FREEZING OR OVERHEATING. USE PLASTIC COVERING OVER FURNITURE, DISPLAY CASES, EQUIPMENT AND FINISHES. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE PREMISES ON A DAILY BASIS; ALL DUST AND CONSTRUCTION DEBRIS ARE TO BE REMOVED. ANY BROKEN, DAMAGED, MARRED, UNCLEAN, OR OTHERWISE IMPERFECT WORK SHALL BE CORRECTED BY THE CONTRACTOR BEFORE HIS WORK SHALL BE CONSIDERED COMPLETE. USE DUST BARRIERS.

UPON COMPLETION OF THE WORK CONTRACTOR SHALL CLEAN INTERIOR AND EXTERIOR OF ALL GLASS AND GLAZING, FLOORS, WALLS AND CEILING SURFACES, ELECTRICAL FIXTURES, MECHANICAL EQUIPMENT, ETC.; IT IS NECESSARY TO REMOVE ALL DIRT, STAINS, AND MARKS. THE SIGNS, GLASS AND WOOD SHALL BE CLEANED AND POLISHED. THE STORE SHALL BE MADE CLEAN AND FIT FOR IMMEDIATE OCCUPANCY BY AN INDEPENDENT CLEANING AGENT, WITH THE APPROVAL OF PANDA EXPRESS, AT THE CONTRACTOR'S EXPENSE.

GENERAL CONTRACTOR SHALL SUPERVISE AND SCHEDULE PROPER INSTALLATION OF ALL PARTS OF WORK PERTAINING TO A FINISHED PRODUCT BY HIM OR BY THE OWNER.

GENERAL CONTRACTOR SHALL SUPERVISE AND SCHEDULE PROPER INSTALLATION OF ALL PARTS OF WORK PERTAINING TO A FINISHED PRODUCT BY CONTRACTOR, SUBCONTRACTORS OR PANDA EXPRESS.

11. GUARANTEE WARRANTY

THE CONTRACTOR SHALL GUARANTEE THE WORK TO BE FREE FROM DEFECTS OF MATERIALS OR WORKMANSHIP, INCLUDING DISCOLORATION, RATTLING AND LEAKING, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL PAYMENT. APPLICATION BY THE CONTRACTOR FOR FINAL PAYMENT SHALL BE CONSIDERED AS PRESUMPTIVE EVIDENCE OF HIS FULL UNDERSTANDING OF AND AGREEMENT WITH CONDITIONS OF THE GUARANTEE PROVISION, AND HE SHALL REMOVE AND REPLACE WITH NEW, AT HIS OWN EXPENSE, ALL SUCH WORK OR MATERIALS FOUND BY PANDA EXPRESS'S REPRESENTATIVE TO BE DEFECTIVE WITHIN THE GUARANTEE PERIOD.

12. SUBCONTRACTORS

THE CONTRACTOR AGREES THAT HE IS FULLY RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS SUBCONTRACTORS AND OF PERSONS DIRECTLY EMPLOYED BY HIM. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE ANY CONTRACTUAL RELATION BETWEEN ANY SUBCONTRACTOR AND PANDA EXPRESS. THE CONTRACTOR SHALL COOPERATE WITH PANDA AND OTHER CONTRACTORS PERFORMING WORK UNDER SEPARATE CONTRACTS TO ENSURE PROJECT PROGRESS ACCORDING TO SCHEDULE. THE CONTRACTOR SHALL COORDINATE WORK FOR THE VARIOUS TRADES INCLUDING PANDA EXPRESS'S VENDORS.

13. TEMPORARY FACILITIES

PROVIDE AND COMPLETE ALL PRELIMINARY WORK AND TEMPORARY CONSTRUCTION REQUIRED AS INDICATED AND REQUIRED.

TEMPORARY BARRICADES:
INSTALL TEMPORARY BARRICADE AS REQUIRED BY CITY OFFICIALS OR MALL MANAGEMENT IN MANNER STIPULATED BY SAME.

LIGHT AND POWER SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR OR REUSE EXISTING FROM LOCATION OF LANDLORD'S SERVICE AND PAY ALL COST FOR SAME, FOR ALL CONTRACTOR(S) TO SUBJECT SPACE.

WATER SUPPLY:
THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR PERMANENT WATER SERVICE, WATER METER, AND PRESSURE REGULATOR FOR ALL PURPOSES OF CONSTRUCTION, PAYING ALL COSTS IN CONNECTION WITH SAME, AND FOR ALL WATER USED. THIS SHALL INCLUDE ALL MEANS OF CONVEYING SAME TO PLACE WHERE REQUIRED.

ELECTRICITY:
THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS, PAY ALL DUES AND CHARGES, OBTAIN NECESSARY PERMITS, PROVIDE AND MAINTAIN ELECTRICAL ENERGY FROM DEVELOPERS PERMANENT ELECTRICAL FACILITIES FOR LIGHTING, POWER FOR ALL ELECTRIC TOOLS AND EQUIPMENT REQUIRED IN CONSTRUCTION OF ALL BRANCHES OF THE WORK AND PAY FOR ALL CURRENT USED.

FIRE PROTECTION:
OWNER'S CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS WITHIN THE PREMISES AS REQUIRED BY CODE AND/OR INSURANCE COMPANIES, OR VERIFY THAT ONE IS EXISTING IN THE CASE OF REMODELING. DISCONNECT AND SEAL UTILITIES SERVING STRUCTURE TO BE DEMOLISHED, PRIOR TO START OF DEMOLITION WORK.

14. STRICTLY PROHIBITED WORK AND PRACTICES

INSTALLATION OF ANY COMBUSTIBLE MATERIALS ABOVE FINISHED CEILINGS OR IN ANY OTHER CONCEALED, NON-SPRINKLERED SPACE.

IMPOSING ANY STRUCTURAL LOAD, TEMPORARY OR PERMANENT, ON ANY PART OF THE WORK OR STRUCTURE WITHOUT APPROVAL.

ATTACHING ANY WORK TO METAL DECK OR HANGING FROM PLUMBING AND SPRINKLER PIPING OR CONDUIT.

15. POLLUTION CONTROLS

USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERED IN AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING AND POLLUTION.

CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS, AS DIRECTED BY ARCHITECT OR GOVERNING AUTHORITIES. RETURN ADJACENT AREAS TO CONDITION EXISTING PRIOR TO START OF WORK.

16. TURNOVER REQUIREMENTS

THE CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS AND FURNISH OWNERS REPRESENTATIVE WITH THE CERTIFICATE OF OCCUPANCY. GC IS ALSO TO PROVIDE A TYPEWRITTEN LIST OF NAMES, ADDRESSES AND PHONE NUMBERS OF ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE ENTIRE STORE CLEAN AND SPOTLESS AT THE TIME OF FURNITURE INSTALLATION AND AT TURN OVER.

PRIOR TO THE STORE OPENING, CONTRACTOR IS TO ARRANGE FOR AN INDEPENDENT BALANCING CONTRACTOR TO BALANCE THE HVAC SYSTEM AND PROVIDE A COPY OF THE BALANCING REPORT TO OWNER'S REPRESENTATIVE.

CONTRACTOR TO TURN OVER ALL KEYS TO THE OWNER'S REPRESENTATIVE AND MARKING EACH KEY FOR IDENTIFICATION. THE CONTRACTOR SHALL SET ALL TIME CLOCKS, THERMOSTATS, ETC. PER OWNER'S REPRESENTATIVE'S REQUIREMENTS.

THE CONTRACTOR SHALL EXPLAIN THE OPERATION OF ALL MECHANICAL SYSTEMS TO THE OWNER'S REPRESENTATIVE AND PROVIDING COPIES OF OPERATION, MAINTENANCE AND WARRANTY MANUALS.

# DIVISION 2 - SITE WORK

1. DEMOLITION

PROVIDE DEMOLITION AND REMOVAL OF STRUCTURES, PAVEMENT, SIDEWALKS, CURBS, ETC. AND THE CAPPING OF EXISTING UTILITIES. REMOVE ABOVE GRADE AND BELOW GRADE IMPROVEMENTS AND REMOVE GROWTH AND VEGETATION AT THE SITE.

COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS AND STANDARDS. IN CASE OF CONFLICT THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

SCHEDULE AND EXECUTE ALL WORK IN A CAREFUL MANNER WITH ALL CONSIDERATION FOR NEIGHBORS AND THE PUBLIC TO PREVENT INJURY TO PERSONS OR PROPERTY.

PRIOR TO ALL DEMOLITION WORK CAREFULLY INSPECT THE ENTIRE SITE AND ALL OBJECTS TO BE DEMOLISHED AND/OR LEFT INTACT AND DETERMINE AN ORDERLY SEQUENCE FOR THE DEMOLITION. LOCATE ALL EXISTING UTILITY LINES AND DETERMINE THE REQUIREMENTS FOR DISCONNECTION AND CAPPING. LOCATE ALL ACTIVE UTILITY LINES TRAVERSING THE SITE AND DETERMINE THE REQUIREMENTS FOR PROTECTION.

PROTECTION: THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROTECTION OF EXISTING BUILDINGS, SURROUNDING PROPERTY AND ALL PERSONS. THE CONTRACTOR SHALL ALSO PROVIDE ALL SHORING, TEMPORARY BARRICADES AND TEMPORARY ENCLOSURES AS NECESSARY TO PROTECT ADJACENT PROPERTY FROM DAMAGE.

TAKE ALL MEANS NECESSARY TO PREVENT THE SPREAD OF DUST DURING DEMOLITION OPERATIONS. THOROUGHLY MOISTEN ALL GROUND SURFACES AS OFTEN AS REQUIRED TO PREVENT DUST BEING A NUISANCE TO THE PUBLIC, NEIGHBORS AND THE CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.

PRESERVE IN OPERATING CONDITION ALL ACTIVE UTILITIES TRAVERSING THE SITE AND REQUIRED FOR FUTURE OPERATION OF THE NEW STORE AND SURROUNDING PROPERTIES.

COORDINATE DISCONNECTING, REMOVING, PLUGGING, ABANDONING AND RELOCATING UTILITIES WITH LOCAL UTILITY COMPANIES OR OTHER GOVERNING AGENCIES.

ASBESTOS ABATEMENT: REFER TO ASBESTOS CONTAINING MATERIAL (ACM) REPORT FOR COMPLETE DESCRIPTION OF MATERIALS IDENTIFIED. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS FOR THE PROPER PROTECTION, REMOVAL AND DISPOSAL OF ANY ASBESTOS CONTAINING MATERIAL.

POLLUTION CONTROL: THE CONTRACTOR IS RESPONSIBLE FOR ENSURING TRUCKS LEAVING AND ENTERING THE SITE DO NOT DROP DEMOLITION DEBRIS OR DIRT ONTO PUBLIC STREETS.

THE CONTRACTOR IS RESPONSIBLE FOR THE PREVENTION OF SOIL EROSION AND SILT FROM LEAVING THE SITE.

FILLING BASEMENTS & VOIDS: COMPLETELY FILL BELOW GRADE AREA AND VOIDS RESULTING FROM THE DEMOLITION OF THE STRUCTURE AND UTILITIES.

REFER TO THE GEO-TECHNICAL REPORT FOR FILL MATERIAL AND PLACEMENT METHODS. PLACE FILL, COMPACT AND GRADE THE SURFACE TO MEET ADJACENT GRADES AND AS SHOWN ON THE DRAWINGS.

DISPOSAL OF DEMOLISHED MATERIALS: REMOVE FROM SITE AND LEGALLY DISPOSE ALL RUBBISH, DEBRIS AND ALL MATERIALS RESULTING FROM THE DEMOLITION OPERATIONS.

2. EARTHWORK

LOCATE EXISTING UNDERGROUND UTILITIES BY CAREFUL HAND EXCAVATION BEFORE STARTING EARTHWORK OPERATIONS. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE PROTECTION FROM DAMAGE DURING CONSTRUCTION OPERATIONS. CONTACT LOCAL UTILITY COMPANY FOR INFORMATION REGARDING UNDERGROUND UTILITIES.

SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE OWNER IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURES. REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER. COOPERATE WITH THE OWNER, AND PUBLIC AND PRIVATE UTILITY COMPANIES IN KEEPING SERVICES AND FACILITIES IN OPERATION.

BARRICADE OPEN EXCAVATION AND POST WITH WARNING LIGHTS FOR THE SAFETY OF PERSONS, OPERATING WARNING LIGHT DURING HOURS OF DUSK TO DAWN EACH DAY.

PROTECT STRUCTURE, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES IMMEDIATELY ADJACENT TO EXCAVATIONS, FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS.

ALL FILL AND BACK FILL SHALL BE SELECTED FILL MATERIAL COMPACTED AS NOTED IN THE SOILS REPORT. GRADING PLAN AND EARTHWORK SPECIFICATIONS SHALL USE NON-EXPANSION FILL MATERIAL AT BUILDING AREA AND UNDER WALKS. ALL COMPACTION SHALL BE SUPERVISED AND CERTIFIED BY A LICENSED SOILS ENGINEER AND CERTIFICATION REPORT SHALL BE SUBMITTED TO PANDA EXPRESS PRIOR TO PLACING OF CONCRETE.

3. ASPHALT AND CONCRETE PAVING

(REFER TO CIVIL DRAWINGS FOR SPECIFICATIONS)
SEE GRADING AND PAVING PORTION OF SITE PREPARATION PROCEDURES ON THE SITE AND/OR GRADING PLAN.

MATERIALS:
1) BASE COURSE: AS NOTED ON CIVIL DRAWINGS
2) PRIME COAT: MC-250 OR MC-70 PER ASPHALT INSTITUTE (ASTM D2027-76)
3) SURFACE COAT: AS NOTED ON CIVIL DRAWINGS
4) PAVEMENT MARKINGS, PARKING STALL STRIPES SHALL BE: AS NOTED ON CIVIL DRAWINGS
5) SEAL COAT: FOG-SEAL BY KOPPERS COMPANY.

PROVIDE ALL ASPHALT AND CONCRETE WORK COMPLETE, AS SHOWN ON THE DRAWINGS HEREIN SPECIFIED, INCLUDING CONCRETE FORM WORK, REINFORCEMENT DOWELS AND ACCESSORIES, CONCRETE MIXED, PLACE, FINISHED AND CURED.

EXTERIOR WALKS AND RAMPS TO BE LIGHT BROOM TEXTURE FINISH, UNLESS NOTED OTHERWISE.

EXTERIOR FLATWORK AND CURBS - PROVIDE EXPANSION CONTRACTION JOINT AT 20'-0" ON CENTER MAXIMUM AND CONTROL JOINT AT 5'-0" ON CENTER MAXIMUM.

4. TERMITE CONTROL

QUALITY ASSURANCE: CONFORM TO STATE, LOCAL, AND ALL OTHER REGULATIONS FOR THE USE AND APPLICATION OF TOXICANT CHEMICALS. APPLICATOR SHALL BE A COMPANY SPECIALIZING IN SOIL TREATMENT FOR TERMITE CONTROL WITH FIVE YEARS EXPERIENCE AND LICENSED FOR PROJECT LOCATION. SUBMIT COMPLETE PRODUCT DATA AND MANUFACTURER'S INSTRUCTIONS. INDICATE CAUTION REQUIREMENTS.

WARRANTY: FURNISH FIVE YEAR WARRANTY AGAINST INVASION OR PROPAGATION OF SUBTERRANEAN TERMITES, DAMAGE TO BUILDING OR CONTENTS CAUSED BY TERMITES. INCLUDE COST FOR REPAIRS TO BUILDINGS OR CONTENTS SO CAUSED. CERTIFICATION OF TREATMENT SHALL BE PROVIDED IN CLOSEOUT DOCUMENTS AT GC EXPENSE.

PRODUCTS: PROVIDE WATER EMULSION MATERIALS MANUFACTURED BY ONE OF THE FOLLOWING: BASE TERMIDOR; DOW AGRO SCIENCES EQUITY 1.0 PERCENT; OR OTHER PRODUCT SUBSTITUTIONS IF APPROVED IN WRITING BY PANDA.

EXECUTION: VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL LAWS AND OSHA REGULATIONS. COORDINATE INSTALLATION WITH ROUGH GRADING TO AVOID DISTURBANCES TO TREATED SOIL. RETREAT ANY DISTURBED SOIL. DO NOT PERMIT SOIL GRADING OVER COMPLETED WORK.

TREATMENT SCHEDULE: TREAT SOIL AT THE FOLLOWING LOCATIONS:
UNDER FOOTINGS; UNDER SLABS ON GRADE; BOTH SIDES OF FOUNDATION WALLS; AND SOIL WITHIN 10 FEET OF BUILDING PERIMETER FOR A DEPTH AS RECOMMENDED BY THE MANUFACTURER FOR THE REGION WHERE PROJECT IS LOCATED.

# DIVISION 3 - CONCRETE

REFER TO STRUCTURAL DRAWINGS FOR CONCRETE SPECIFICATIONS

# DIVISION 4 - MASONRY

1. GENERAL NOTES

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF ALL LOCAL CODES AND STANDARDS.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND REPORT ANY ERRORS, OMISSIONS, OR POSSIBLE DISCREPANCIES TO THE ARCHITECT AND PANDA EXPRESS PRIOR TO COMMENCING ANY WORK. SPECIAL CARE SHALL BE GIVEN TO THE SITE AND BUILDING LAYOUT THEREON.

THE CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE BRACES AND CONNECTIONS TO SUPPORT THE COMPONENT PARTS OF THE STRUCTURE UNTIL THE STRUCTURE ITSELF (INCLUDING THE FLOOR AND ROOF DIAPHRAGMS) IS COMPLETE ENOUGH TO ADEQUATELY SUPPORT ITSELF.

OPTIONS, IF PROVIDED HEREIN, ARE NOTED FOR CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY, SHALL COORDINATE ALL DETAILS, AND SHALL OBTAIN ALL REQUIRED APPROVALS.

COSTS OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION OR DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION, SHALL BE BORNE BY THE CONTRACTOR.

2. MANUFACTURED MASONRY VENEER

INCLUDES

# DIVISION 7 - THERMAL AND MOISTURE PROTECTION

1. ENERGY COMPLIANCE

FIXED WINDOWS (GLASS) SHALL BE SEALED TO LIMIT AIR INFILTRATION.

HOLLOW METAL OR SOLID CORE WOOD DOORS: PROVIDE VINYL OR SHEET METAL WEATHER SEAL AT HEAD, JAMB AND SILL AT ALL EXTERIOR DOORS.

EXTERIOR STORE FRONT HINGED DOORS: PROVIDE VINYL SEAL AT SILL AND CONTINUOUS PILE WEATHER-STRIP VERTICALLY AND AT TOP RAILS.

OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT PENETRATION OF UTILITIES THROUGH THE ENVELOPE, SHALL BE SEALED CAULKED OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.

2. BUILDING INSULATION

WORK INCLUDED: FURNISH AND INSTALL RIGID, THERMAL BATT, AND SOUND BATT INSULATION.

**ROOF INSULATION:** RIGID POLY-ISO INSULATION: R30 MINIMUM

**BATT INSULATION:** R-13 AS SHOWN ON PLANS, KRAFT FACED WITH STAPLING FLANGE FOR WOOD STUD WALL CONSTRUCTION, FOIL REINFORCED KRAFT FACING (FRK) WITH STAPLING FLANGE FOR WOOD STUD APPLICATION IN ATTIC AREAS (FS-25 WITH FLAME SPREAD OF 25). AS MANUFACTURED BY OWENS/CORNING FIBERGLASS, OR EQUAL.

**SOUND BATT INSULATION:** NON-COMBUSTIBLE MINERAL FIBERGLASS BATTS WITH MINIMUM 3 1/2" THICKNESS.

**VAPOR BARRIER:** TRANSLUCENT POLYETHYLENE FILM FOR USE IN ABOVE GRADE BUILDING CONSTRUCTION, 6 MIL MINIMUM THICKNESS. (INTERIOR ONLY)

3. MEMBRANE ROOFING

MATERIALS: PROVIDE DURO-LAST ROOFING AND BASE FLASHING AS MANUFACTURED BY DURO-LAST ROOFING SYSTEMS. PRODUCT AND INSTALLATION SHALL CONFORM TO MANUFACTURERS SPECIFICATION AND 2018 IBC CHAPTER 15 & ISTM D4434. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION.

INSTALLATION: ROOFING SHALL BE INSTALLED BY MANUFACTURER CERTIFIED INSTALLER. ROOFING SHALL BE INSTALLED OVER WOOD DECK OR INSULATED DECK, WHERE APPLICABLE. IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST RECOMMENDATIONS. PRIME ALL METAL FLASHING, ETC. THAT SHALL BE IN CONTACT WITH ROOFING MATERIALS.

WARRANTY: GENERAL CONTRACTOR SHALL FURNISH A FIFTEEN (15) YEAR, NO DOLLAR LIMIT (NDL), WARRANTY FOR THIS INSTALLATION.

4. FLASHING AND SHEET METAL

FURNISH AND INSTALL ALL FLASHING, SHEET METAL, PITCH POCKET PANS AND SCUPPERS NOT SPECIFICALLY DESCRIBED IN OTHER SECTIONS OF THESE SPECIFICATIONS, BUT REQUIRED TO PREVENT WATER PENETRATION THROUGH EXTERIOR BUILDING SHELL, INCLUDING FLASHING, CAPS, AND ROOF EQUIPMENT PLATFORM COVERS.

COMPLY WITH APPLICABLE RECOMMENDATIONS AND DETAILS OF THE "ARCHITECTURAL SHEET METAL MANUAL", BY SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA).

INSTALL SHEET METAL OVER A LAYER OF ROOFING FELT.

GALVANIZED IRON: SHEET METAL OR IRON SHALL BE A STANDARD BRAND OF OPEN-HEARTH, COPPER-BEARING STEEL, COPPER-MOLYBDENUM IRON, OR PURE IRON SHEETS. USE 24 GAUGE MINIMUM UNLESS OTHERWISE CALLED FOR ON THE DRAWINGS.

ZINC COATING: ALL GALVANIZED SHEETS SHALL HAVE A ZINC COATING APPLIED BY HOT-DIP PROCESS TO ALL SURFACES. ZINC COATING SHALL WEIGH NOT LESS THAN 1 1/4 OUNCES PER SQ FT NOR MORE THAN 1 1/2 OUNCES PER SQ FT OF SURFACES COVERED AND SHALL CONFORM WITH ASTM A-93.

5. ROOF ACCESSORIES

THE WORK OF THIS SECTION INCLUDES THE PROVIDING AND INSTALLING OF ACCESSORIES TO BE INSTALLED ON THE ROOF AND FLASHED TO PROVIDE A WATERTIGHT INSTALLATION.

ROOF HATCH: BILCO, TYPE "S-20", 2'-6" X 3'-0", GALVANIZED, BONDED FOR PAINTING.

6. CAULKING & SEALANTS

GENERAL BUILDING APPLICATIONS: FOR JOINTS WHERE MOVEMENT IS ANTICIPATED, USE A.C. HORN HORNFLEX (POLYSULFIDE) ONE COMPONENT SYSTEM IN THE COLOR WHICH MOST CLOSELY MATCHES THE ADJACENT SURFACES. SEALANT TO HAVE A SHORE "A" HARDNESS OF 20 TO 30.

FOR DRY JOINTS BETWEEN DISSIMILAR MATERIALS WHERE LITTLE MOVEMENT IS ANTICIPATED, USE A.C. HORN HORNSEAL ELASTOMERIC CAULK (BUTYL RUBBER) ONE COMPONENT SYSTEM IN THE COLOR WHICH MOST CLOSELY MATCHES ADJACENT SURFACES.

FOR GLAZING AND KITCHEN APPLICATIONS: GENERAL ELECTRIC SILICONE CONSTRUCTION 1200 SEALANT.

FOR SHEET METAL FLASHING AND COPING: GENERAL ELECTRIC SILPRUF SILICONE WEATHER PROOFING SEALANT.

THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS WORK THE FOLLOWING: AFTER ALL EQUIPMENT AND WALL MATERIALS ARE INSTALLED, ALL JOINTS TO WALLS AND BASES SHALL BE SEALED WITH SILICONE SEALANT.

ALL INSIDE VERTICAL CERAMIC TILE CORNERS SHALL RECEIVE A TOOLED BEAD OF SILICONE SEALANT.

7. EIFS (EXTERIOR INSULATION AND FINISH SYSTEM)

WORK INCLUDED: ALL MATERIALS AND INSTALLATION OF AN EIFS SYSTEM.

DESIGN REQUIREMENTS: CONFORM IN ALL RESPECTS TO MANUFACTURER'S SPECIFICATIONS FOR MATERIALS AND INSTALLATION PER STO THERM SPECIFICATION FOR STO THERM E100 ESSENCE SYSTEM.

DRYVIT MAY BE SUBSTITUTED AS AN ALTERNATE EIFS MANUFACTURER IF APPROVED IN WRITING BY PANDA EXPRESS.

MEET ALL LOCAL BUILDING CODE REQUIREMENTS.

MOISTURE CONTROL: PREVENT THE ACCUMULATION OF WATER BEHIND THE EIFS SYSTEM, EITHER BY CONDENSATION OR LEAKAGE THROUGH THE WALL CONSTRUCTION, IN THE DESIGN AND DETAILING OF THE WALL ASSEMBLY. CONFORM WITH ALL DETAILS OF MANUFACTURER'S SPECIFICATIONS.

IMPACT RESISTANCE: PROVIDE ULTRA-HIGH IMPACT RESISTANCE TO A MINIMUM HEIGHT OF 6'-0" ABOVE FINISHED GRADE AT ALL AREAS ACCESSIBLE TO PEDESTRIAN TRAFFIC AND OTHER AREAS EXPOSED TO ABNORMAL STRESS OR IMPACT. INDICATE THE AREAS WITH IMPACT RESISTANCE OTHER THAN "STANDARD" ON CONTRACT DRAWINGS.

COLOR SELECTION: AS SELECTED BY PANDA FROM MANUFACTURER'S STANDARD COLORS.

JOINTS: PER MANUFACTURER'S SPECIFICATION

GRADE CONDITION: DO NOT INSTALL EIFS BELOW GRADE.

PROJECTING ARCHITECTURAL FEATURES AND REVEALS: ALL TRIM AND PROJECTING ARCHITECTURAL FEATURES MUST HAVE A MINIMUM 1:2 SLOPE ALONG THEIR TOP SURFACE ALL HORIZONTAL REVEALS MUST HAVE A MINIMUM 1:2 SLOPE ALONG THEIR BOTTOM SURFACE INCREASE SLOPE FOR NORTHERN CLIMATES TO PREVENT ACCUMULATION OF ICE/SNOW AND WATER ON SURFACE WHERE TRIM FEATURE OR BOTTOM SURFACE OF REVEAL PROJECTS MORE THAN 2 INCHES FROM THE FACE OF THE EIFS WALL PLANE, PROTECT THE TOP SURFACE WITH WATERPROOF BASE COAT. PERIODIC INSPECTIONS AND INCREASED MAINTENANCE MAY BE REQUIRED TO MAINTAIN SURFACE INTEGRITY OF EIFS ON WEATHER EXPOSED SLOPED SURFACES.

INSULATION THICKNESS: MINIMUM EPS INSULATION THICKNESS IS 1 1/2 INCHES.

FIRE PROTECTION: REFER TO MANUFACTURER'S APPLICABLE CODE COMPLIANCE REPORT FOR LIMITATIONS THAT MAY APPLY.

QUALITY ASSURANCE:
MANUFACTURER REQUIREMENTS: MEMBER IN GOOD STANDING OF THE EIFS INDUSTRY MEMBERS ASSOCIATION, AND (EIMA). SYSTEM MANUFACTURER FOR A MINIMUM OF TWENTY (25) YEARS, AND MANUFACTURING FACILITIES ISO 9001-2000 CERTIFIED QUALITY SYSTEM.

CONTRACTOR REQUIREMENTS: ENGAGED IN APPLICATION OF EIFS FOR A MINIMUM OF THREE (3) YEARS; AND EMPLOY SKILLED MECHANICS WHO ARE EXPERIENCED AND KNOWLEDGEABLE IN EIFS APPLICATION; AND DEMONSTRATE SUCCESSFUL COMPLETION OF MINIMUM OF THREE (3) PROJECTS OF SIMILAR SIZE AND COMPLEXITY TO THE SPECIFIED PROJECT.

INSULATION BOARD MANUFACTURER REQUIREMENTS: RECOGNIZED BY STO AS CAPABLE OF PRODUCING INSULATION BOARD; AND LISTED BY AN APPROVED AGENCY. LABEL INSULATION BOARD WITH INFORMATION REQUIRED BY STO, THE APPROVED LISTING AGENCY AND THE APPLICABLE BUILDING CODE.

INSPECTIONS: PROVIDE INDEPENDENT THIRD PARTY INSPECTION WHERE REQUIRED BY CODE OR CONTRACT DOCUMENTS. CONDUCT INSPECTIONS IN ACCORDANCE WITH CODE REQUIREMENTS AND CONTRACT DOCUMENTS.

DELIVERY STORAGE AND HANDLING: AS SPECIFIED BY MANUFACTURER.

COORDINATION:
THE WORK IN THIS SECTION REQUIRES CLOSE COORDINATION WITH RELATED SECTIONS AND TRADES.

PROVIDE SITE GRADING SUCH THAT EIFS TERMINATES ABOVE FINISHED GRADE A MINIMUM OF 6 INCHES (152MM) OR AS REQUIRED BY CODE.

PROVIDE PROTECTION OF ROUGH OPENINGS BEFORE INSTALLING WINDOWS, DOORS AND OTHER PENETRATIONS THROUGH THE WALL AND PROVIDE SILL FLASHING.

INSTALL WINDOW AND DOOR HEAD FLASHING IMMEDIATELY AFTER WINDOWS AND DOORS ARE INSTALLED.

INSTALL DIVERTER FLASHING WHEREVER WATER CAN ENTER THE WALL ASSEMBLY TO DIRECT WATER TO THE EXTERIOR.

INSTALL COPINGS AND SEALANT IMMEDIATELY AFTER INSTALLATION OF THE EIFS SYSTEM AND WHEN EIFS COATINGS ARE DRY.

ATTACH PENETRATIONS THROUGH EIFS TO STRUCTURAL SUPPORT AND PROVIDE WATER TIGHT SEAL AT PENETRATIONS.

PRODUCTS:
PROVIDE EIFS SYSTEM AND ACCESSORIES FROM SINGLE SOURCE.

MANUFACTURER OR APPROVED SUPPLIER. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS" STO CORP. EIFS; OTHER MANUFACTURER IF APPROVED IN WRITING BY PANDA.

INSULATION BOARD: NOMINAL 1.0 LB/FT3 (16 KG/M3) EXPANDED POLYSTYRENE (EPS) INSULATION BOARD IN COMPLIANCE WITH ASTM E2430 AND ASTM C578 TYPE 1 REQUIREMENTS.

BASE COAT AS SPECIFIED BY MANUFACTURER.

REINFORCING MESHES AS SPECIFIED BY MANUFACTURER.

FINISH COAT: STO ESSENCE DPR FINISH, ACRYLIC BASED TEXTURED WALL COATING WITH GRADED MARBLE AGGREGATE AND DIRT PICK-UP RESISTANCE TECHNOLOGY.

EXECUTION:
INSTALLATION: INSTALL EIFS IN COMPLIANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS.

PROTECTION: PROVIDE PROTECTION OF INSTALLED MATERIALS FROM WATER INFILTRATION INTO OR BEHIND THEM. PROVIDE PROTECTION OF INSTALLED MATERIALS FROM DUST, DIRT, PRECIPITATION, FREEZING AND CONTINUOUS HIGH HUMIDITY UNTIL THEY ARE FULLY DRY.

8. VAPOR BARRIER

ALL EXTERIOR SHEATHING SHOWN IN DRAWINGS CALLED OUT TO RECEIVE "WRB" (WATER RESISTIVE BARRIER) OR VAPOR BARRIER SHALL RECEIVE THE FOLLOWING:

MANUFACTURER: STO CORPORATION (www.stocorp.com)

SPECIFICATION: STO GUARD WTH GOLD COAT A1000G

SUBSTITUTIONS: NOT ALLOWED

INSTALLATION: INSTALL PER MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS

9. WATER PROOFING MEMBRANE BEHIND COMPOSITE DECKING

ALL EXTERIOR SHEATHING SHOWN IN DRAWINGS CALLED OUT TO RECEIVE "WATER PROOFING" LOCATED SPECIFICALLY BEHIND ALL COMPOSITE WOOD DECKING SIDING SHALL RECEIVE THE FOLLOWING:

MANUFACTURER: BASF (www.master-builders-solutions.basf.us/en-us/products/masterseal/1991)

SPECIFICATION: MASTERSEAL HLM 5000

SUBSTITUTIONS: NOT ALLOWED

INSTALLATION: INSTALL PER MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS - REFER TO CUT SHEET BELOW

BASF
We create chemistry

Technical Data Guide

07 14 00
Fluid-Applied Waterproofing

# MasterSeal® HLM 5000

## Liquid, cold-applied elastomeric waterproofing membrane system

FORMERLY SONOSHIELD® HLM 5000

**YIELD**
25–30 ft²/gal at 55–65 wet mils (0.61–0.74 m²/L at 1.4–1.7 mm wet thickness)

25–30 ft²/gal at 45–55 dry mils (0.61–0.74 m²/L at 1.1–1.4 mm dry thickness)

Coverage may vary with the application technique used. Actual coverage rate and mil thickness depend on finish and porosity of the substrate.

**STORAGE**
Store in unopened containers in clean, dry conditions at 40 to 80°F (4 to 27°C). During storage, an easily removed skin of HLM 5000 may form, which does not affect performance of the product.

**SHELF LIFE**
– 1 Year Pails
– 6 Months Drums

**VOC CONTENT**
– MasterSeal HLM 5000 SL: 183 g/L
– MasterSeal HLM 5000 S: 190 g/L
– MasterSeal HLM 5000 R: 180 g/L
– MasterSeal HLM 5000 T: 132 g/L

**DESCRIPTION**
MasterSeal HLM 5000 is a one-component, moisture-curing, bitumen-modified polyurethane elastomeric waterproofing membrane for exterior below-grade or between-slab applications. It is available in four grades:
MasterSeal HLM 5000 SL (self-leveling/squeegee) MasterSeal HLM 5000 S (spray)
MasterSeal HLM 5000 T (trowel) MasterSeal HLM 5000 R (roller)

**PRODUCT HIGHLIGHTS**
- Available in standard and high-build systems
- Waterproofing membrane to prevent water penetration
- Elastomeric accommodates expansion and contraction
- Wide service-temperature range, making MasterSeal HLM 5000 suitable for all climates
- Chemical resistance to bacterial attack, select acids, alkalis and salts
- Seamless cold-applied membrane eliminates lapping, seaming and precutting
- Does not require hot-melt equipment

**APPLICATIONS**
- Concrete
- Plywood (exterior)
- Exterior below grade (on masonry, concrete, and incidental metal)
- Above grade (between two-course concrete and within cavity walls)
- Parking garages and concrete tanks
- Plaza decks and malls
- Fountains and pools
- Balconies and planters
- Below-grade slabs
- Walls and culverts
- Sea walls, dams and reservoirs

**PACKAGING**
- MasterSeal HLM 5000 SL, HLM 5000 S, and HLM 5000 R: 5 gal (18.95 L) pails, 55 gal (208 L) drums; available special order
- MasterSeal HLM 5000 T: 5 gal (18.95 L) pails
- MasterSeal 995: 300 ft by 37½" (91 by 0.9 m) rolls, yielding 937 ft² (87 m²)
- MasterSeal 977:
  - 50 mil by 40" by 48" (1.3 mm by 1 m by 1.2 m) sheets, 500 per pallet, yielding 13⅓ ft² (1.2 m²) per sheet or 6,665 ft² (619 m²) per pallet.
  - 120 mil (¼") by 40" by 48" (3 mm by 1 m by 1.2 m) sheets, 500 per pallet, yielding 13⅓ ft² (1.2 m²) per sheet or 6,665 ft² (619 m²) per pallet.

**HOW TO APPLY MASTERSEAL HLM 5000 SURFACE PREPARATION**
For best results, all concrete deck surfaces should be lightly steel troweled to a flat, uniform surface. A light broom finish is acceptable. New concrete must be properly water cured at least 14 days. Membrane curing compounds must be mechanically removed.

Master Builders Solutions by BASF
www.master-builders-solutions.basf.us

MASTER® BUILDERS SOLUTIONS

10. CONTINUOUS INSULATION FOR WALLS

INCLUDES CONTINUOUS INSULATION FOR WALLS: ECOBASECI.

REFERENCES:

A. AAMA 2605 - ANSI/SBCA FS 100-2012 STANDARD REQUIREMENTS FOR WIND PRESSURE RESISTANCE OF FOAM PLASTIC INSULATING SHEATHING USED IN EXTERIOR WALL COVERING ASSEMBLIES.

B. ASTM INTERNATIONAL (ASTM):
1. ASTM C209 - STANDARD TEST METHODS FOR CELLULOSIC FIBER INSULATING BOARD.
2. ASTM D1621 - STANDARD TEST METHOD FOR COMPRESSIVE PROPERTIES OF RIGID CELLULAR PLASTICS.
3. ASTM D1622 - STANDARD TEST METHOD FOR APPARENT DENSITY OF RIGID CELLULAR PLASTICS.
4. ASTM D2126 - STANDARD TEST METHOD FOR RESPONSE OF RIGID CELLULAR PLASTICS TO THERMAL AND HUMID AGING.
5. ASTM E 72 - STANDARD TEST METHODS OF CONDUCTING STRENGTH TESTS OF PANELS FOR BUILDING CONSTRUCTION.
6. ASTM E 84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.
7. ASTM E 96 - STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS.
8. ASTM E 331 - STANDARD TEST METHOD FOR WATER PENETRATION OF EXTERIOR WINDOWS, SKYLIGHTS, DOORS, AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE.
9. ASTM E 564 - STANDARD PRACTICE FOR STATIC LOAD TEST FOR SHEAR RESISTANCE OF FRAMED WALLS FOR BUILDINGS.
10. ASTM E 2126 - STANDARD TEST METHODS FOR CYCLIC (REVERSED) LOAD TEST FOR SHEAR RESISTANCE OF VERTICAL ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEMS FOR BUILDINGS.
11. ASTM E 2178 - STANDARD TEST METHOD FOR AIR PERMEANCE OF BUILDING MATERIALS.
12. ASTM E 2357 - STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE OF AIR BARRIER ASSEMBLIES.

C. NFPA 285 - STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR NON-LOAD-BEARING WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS.

SUBMITTALS: SUBMIT TO PANDA THE FOLLOWING:

A. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:
1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
3. INSTALLATION METHODS.

B. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION LAYOUTS OF METAL WALL PANELS; DETAILS OF EDGE CONDITIONS, JOINTS, PANEL PROFILES, CORNERS, ANCHORAGES, ATTACHMENT SYSTEM, TRIM, FLASHINGS, CLOSURES, AND ACCESSORIES; AND SPECIAL DETAILS.
1. ACCESSORIES: INCLUDE DETAILS OF ALL INTEGRAL PANEL COMPONENTS AND THEIR INTERFACE WITH ADJACENT MATERIALS.
2. FOR INSTALLED PRODUCTS INDICATED TO COMPLY WITH DESIGN LOADS, INCLUDE STRUCTURAL ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

C. VERIFICATION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO SAMPLES, MINIMUM SIZE 4 INCHES BY 6 INCHES (102MM X 150 MM).

QUALITY ASSURANCE:

A. MANUFACTURER QUALIFICATIONS: ALL PRIMARY PRODUCTS SPECIFIED IN THIS SECTION WILL BE SUPPLIED BY A SINGLE MANUFACTURER WITH A MINIMUM OF TEN YEARS EXPERIENCE.

B. INSTALLER QUALIFICATIONS: ALL PRODUCTS LISTED IN THIS SECTION ARE TO BE INSTALLED BY A SINGLE INSTALLER WITH A MINIMUM OF FIVE (5) YEARS DEMONSTRATED EXPERIENCE IN INSTALLING PRODUCTS OF THE SAME TYPE AND SCOPE AS SPECIFIED.

DELIVERY, STORAGE, AND HANDLING:

A. STORE AND HANDLE PRODUCTS PER MANUFACTURER'S INSTRUCTIONS UNTIL READY FOR INSTALLATION.

SEQUENCING:

A. ENSURE THAT LOCATING TEMPLATES AND OTHER INFORMATION REQUIRED FOR INSTALLATION OF PRODUCTS OF THIS SECTION ARE FURNISHED TO AFFECTED TRADES IN TIME TO PREVENT INTERRUPTION OF CONSTRUCTION PROGRESS.

B. ENSURE THAT PRODUCTS OF THIS SECTION ARE SUPPLIED TO AFFECTED TRADES IN TIME TO PREVENT INTERRUPTION OF CONSTRUCTION PROGRESS.

PROJECT CONDITIONS:

A. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S RECOMMENDED LIMITS.

WARRANTY:

A. INSULATION WARRANTY: AT PROJECT CLOSEOUT, PROVIDE TO OWNER AN EXECUTED COPY OF THE MANUFACTURER'S STANDARD LIMITED WARRANTY AGAINST MANUFACTURING DEFECT, OUTLINING ITS TERMS, CONDITIONS, AND EXCLUSIONS FROM COVERAGE.

PRODUCTS:

MANUFACTURERS

A. ACCEPTABLE MANUFACTURER: RMAX OPERATING, LLC, WHICH IS LOCATED AT: 13524 WELCH RD., DALLAS, TX 75244-5227; TOLL FREE TEL: 800-527-0890; TEL: 972-387-4500; FAX: 972-387-4673; EMAIL:MATHEW STEVENS (MSTEVENS@RMAX.COM); WEB:WWW.RMAX.COM
1. RMAX OPERATING, LLC; 13524 WELCH RD., DALLAS, TX 75244. TOLL FREE TEL: 800-527-0890. TEL: 972-387-4500. FAX: 972-387-4673. EMAIL: SPECS@RMAX.COM. WEB:WWW.RMAX.COM.
2. RMAX OPERATING, LLC; 210 LYON DR., FERNLEY, NV 89408. TOLL FREE TEL: 800-762-9462. TEL: 775-575-4849. FAX: 775-575-5035. EMAIL: SPECS@RMAX.COM. WEB:WWW.RMAX.COM.
3. RMAX OPERATING, LLC; 1649 S. BATESVILLE RD., GREER, SC 29650. TOLL FREE TEL: 800-845-4455. TEL: 864-297-1382. FAX: 864-234-7548. EMAIL: SPECS@RMAX.COM. WEB:WWW.RMAX.COM.

A. SUBSTITUTIONS: NOT PERMITTED.

CONTINUOUS INSULATION FOR WALLS

**A. ECOBASECI**: CLOSED-CELL POLYISOCYANURATE (POLYISO) FOAM INSULATION WITH INORGANIC, POLYMER COATED GLASS FIBER MAT FACERS BONDED TO FIRE RETARDANT TREATED PLYWOOD (FRTP)
1. COMPLIANCE:
   a. ASTM C1289 TYPE V.
   b. ASHRAE 90.1.
   c. DRJ TER 1504-04
   d. INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
   e. IBC SECTION 2603.
   f. NFPA 285 SECTION 2603.5.5 OF THE IBC.
   g. CALIFORNIA CODE OF REGULATIONS, TITLE 24
   h. 1, 2, 3 OR 4 HOUR FIRE RATED ASSEMBLIES AS SHOWN IN THE UL FIRE RESISTANCE DIRECTORY DESIGN NO.: U026, U326, U330, U354, U424, U460,U902, U904, U905, U906, U907, V454, V499
2. DENSITY (NOMINAL) IN ACCORDANCE WITH ASTM D1622: 2.0 PCF.
3. COMPRESSIVE STRENGTH IN ACCORDANCE WITH ASTM D1621: 20 PSI.
4. FLAME SPREAD, CORE IN ACCORDANCE WITH ASTM E84: 75 OR LESS.
5. SMOKE DEVELOPED, CORE IN ACCORDANCE WITH ASTM E84: 450 OR LESS.
6. WATER VAPOR TRANSMISSION IN ACCORDANCE WITH ASTM E96: LESS THAN 1.5 PERMS.
7. WATER ABSORPTION IN ACCORDANCE WITH ASTM C209: LESS THAN 1 PERCENT BY VOLUME.
8. DIMENSIONAL STABILITY IN ACCORDANCE WITH ASTM D2126: LESS THAN 2 PERCENT LINEAR CHANGE.
9. SERVICE TEMPERATURE: -40 DEGREE F TO +250 DEGREE F (-38 DEGREE C TO 121 DEGREE C).
10. PLYWOOD THICKNESS: 5/8 INCH (15.875 MM).
11. INSULATION THICKNESS: 1.5 INCHES (38.1 MM).
    a. OVERALL THICKNESS: 2-1/8 INCHES (53.975 MM).
    b. THERMAL RESISTANCE (R): 9.7.

EXECUTION:

EXAMINATION

A. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.

B. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.

PREPARATION

A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.

B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.

INSTALLATION, GENERAL

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN PROPER RELATIONSHIP WITH ADJACENT CONSTRUCTION.

PROTECTION

A. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.

B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.


PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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REVISIONS:

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ISSUE DATE:

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
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DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA15276
REGISTERED ARCHITECT

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

G-003

SPECIFICATIONS

TRUE WARM & WELCOME 2300 R6

# DIVISION 8 - DOORS AND WINDOWS

1. QUALITY ASSURANCE

EXTERIOR WINDOW AND DOORS: WINDOWS AND DOORS INSTALLED IN EXTERIOR WALLS SHALL CONFORM TO THE TESTING AND PERFORMANCE REQUIREMENTS OF SECTION 1714.5*.

INSTALLATION: WINDOW AND DOORS SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED MANUFACTURER'S INSTRUCTIONS. FASTENER SIZE AND SPACING SHALL BE PROVIDED IN SUCH INSTRUCTIONS AND SHALL BE CALCULATED BASED ON MAXIMUM LOADS AND SPACING USED IN THE TESTS. EXTERIOR WINDOW AND DOOR ASSEMBLIES. THE DESIGN PRESSURE RATING OF EXTERIOR WINDOWS AND DOORS IN BUILDINGS SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1714.5.1 OR 1714.5.2, EXCEPTION: STRUCTURAL WIND LOAD DESIGN PRESSURES FOR WINDOW UNITS SMALLER THAN THE SIZE TESTED IN ACCORDANCE WITH SECTION 1714.5.1 OR 1714.5.2 SHALL BE PERMITTED TO BE HIGHER THAN THE DESIGN VALUE OF THE TESTED UNIT PROVIDED SUCH HIGHER PRESSURES ARE DETERMINED BY ACCEPTED ENGINEERING ANALYSIS. ALL COMPONENTS OF THE SMALL UNIT SHALL BE THE SAME AS THE TESTED UNIT. WHERE SUCH CALCULATED DESIGN PRESSURES ARE USED, THEY SHALL BE VALIDATED BY AN ADDITIONAL TEST OF THE WINDOW UNIT HAVING THE HIGHEST ALLOWABLE DESIGN PRESSURE.

EXTERIOR WINDOWS AND GLASS DOORS SHALL BE LABELED AS CONFORMING TO AAMA/NWWDA 101/I.S.2. OR 101/I.S.2/NAFS. THE LABEL SHALL STATE THE NAME OF THE MANUFACTURER, THE APPROVED LABELING AGENCY AND THE PRODUCT DESIGNATION AS SPECIFIED IN AAMA/NWWDA 101/I.S.2 OR 101/I.S.2/NAFS. PRODUCTS TESTED AND LABELED AS CONFORMING TO AAMA/NWWDA 101/I.S.2 OR 101/I.S.2/NAFS SHALL NOT BE SUBJECT TO THE REQUIREMENTS OF SECTIONS 2403.2 AND 2403.3.
EXTERIOR WINDOWS AND DOOR ASSEMBLIES NOT PROVIDED FOR IN SECTION 1714.5.1. EXTERIOR WINDOW AND DOOR ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH ASTM E330. EXTERIOR WINDOW AND DOOR ASSEMBLIES CONTAINING GLASS SHALL COMPLY WITH SECTION 2403. THE DESIGN PRESSURE FOR TESTING SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 16. EACH ASSEMBLY SHALL BE TESTED FOR 10 SECONDS AT A LOAD EQUAL TO 1.5 TIMES THE DESIGN PRESSURE.

2. METAL DOORS AND FRAMES

WORK INCLUDED: FURNISH AND INSTALL METAL DOORS AND DOOR FRAMES AS SHOWN ON THE DRAWINGS AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.

MATERIALS: DOORS AND FRAMES SHALL BE EQUIVALENT TO STEEL CRAFT, LABELED OR NON-LABELED AND SIZE AS INDICATED ON DRAWINGS.

STEEL DOORS SHALL BE FULL-FLUSH DESIGN L-18 (18 GAUGE) REINFORCED FOR FINISH HARDWARE AND WITH BAKED ON PRIME PAINT STEEL FRAMES SHALL BE FURNISHED KNOCKED DOWN, TYPE F-16 (16 GAUGE), MITERED CORNERS SHALL HAVE HEAVY REINFORCEMENTS WITH FOUR TABS FOR SECURING AND INTERLOCKING JAMB TO HEAD. PROPER REINFORCEMENT AND CUT-OUT FOR FINISH HARDWARE. FRAMES SUPPLIED WITH SUITABLE JAMB AND BASE ANCHORS, RUBBER BUMPERS AND PRIME PAINTED.

3. WOOD DOORS

PROVIDE AND INSTALL STANDARD SOLID-CORE, FLUSH WOOD DOORS.

FACE VENEER: REFER TO COLOR AND DOOR SCHEDULES FOR LIST OF DOORS TO RECEIVE SCHEDULED FINISHES.

SOLID CORE: MAT FORMED WOOD PARTICLE BOARD, TYPE 1. DENSITY, CLASS 1, COMMERCIAL STANDARD CS236-66, AS MANUFACTURER, BY U.S. PLYWOOD, GENERAL VENEER OR WEYERHAUSER.

DOORS SHALL BE MANUFACTURED PER MILL WORK STANDARDS OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) FOR PREMIUM GRADE.

EDGE BANDING:
PAINTED FINISH: MILL OPTION
STAINED FINISH: MATCH FACE VENEER.

CUTOUTS FOR GLAZING OR LOUVERS SHALL HAVE HARDWOOD FRAMES AND STOPS.

ADHESIVES: CONFORM TO CS 35 TYPE II, FOR INTERIOR DOORS AND TYPE I FOR EXTERIOR DOORS.

DOORS TO HAVE METAL LOUVERS AS INDICATED ON THE DRAWINGS SHALL BE 24 GAUGE WITH CHEVRON TYPE BLADES WITH FREE AIR 50% TOTAL AREA AND BE PRIME PAINTED.

PRE-FIT DOORS AT FACTORY WITH CLEARANCES OF 1/8" AT EACH VERTICAL EDGE AND AT TOP, 3/8" AT BOTTOM, AND 1/8" IN 2" BEVEL AT LOCK EDGE, 3/4" CLEARANCE ABOVE FLOOR WITHOUT THRESHOLD, 1/2" ABOVE FLOOR WITH THRESHOLD.

INSTALL DOORS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS. FIT DOORS TO FRAMES WITH UNIFORM CLEARANCE AND BEVELS. MACHINE DOORS FOR HARDWARE, IF REQUIRED. REFINISH OR REPLACE DOORS DAMAGED DURING INSTALLATION.

4. FINISH HARDWARE

SECURITY NOTES - SWINGING DOORS:
ALL PIN-TYPE HINGES WHICH ARE ACCESSIBLE FROM OUTSIDE THE SECURED AREA WHEN THE DOOR IS CLOSED SHALL HAVE NON-REMOVABLE HINGE PINS. IN ADDITION, THEY SHALL HAVE 1/4" MINIMUM DIAMETERS STEEL JAMB STUDS WITH 1/2" MINIMUM PROJECTION. UNLESS THE HINGES ARE SHAPED TO PREVENT DOOR REMOVAL IF HINGE PINS ARE REMOVED.

STRIKE PLATES FOR LATCHES AND HOLDING DEVICES FOR PROJECTING DEAD BOLTS IN WOOD CONSTRUCTION SHALL BE SECURED TO THE JAMB AND WALL FRAMING WITH SCREWS NOT LESS THAN 2-1/2" IN LENGTH.

DEAD BOLTS SHALL CONTAIN HARDENED INSERTS.

STRAIGHT DEAD BOLTS SHALL HAVE A MINIMUM THROW OF 1" AND AN EMBEDMENT OF NOT LESS THAN 5/8"

HOOK SHAPED OR EXPANDING LAG DEAD BOLTS SHALL HAVE A MINIMUM THROW OF 3/4"

CYLINDER GUARDS SHALL BE INSTALLED ON ALL CYLINDER LOCKS WHENEVER THE CYLINDER PROJECTS BEYOND THE FACE OF THE DOOR OR IS OTHERWISE ACCESSIBLE TO GRIPPING TOOLS.

HARDWARE NOTES: REFER TO HARDWARE SCHEDULE FOR SPECIFICATIONS.

KEYING: ALL CYLINDERS SHALL BE REMOVABLE CORE, MASTER KEYED TO INSTA-KEY SYSTEM. REFER TO DOOR HARDWARE SCHEDULE

FASTENERS:
PROVIDE ALL HARDWARE WITH ALL NECESSARY SCREWS, AND OTHER FASTENERS OF SUITABLE SIZE AND TYPE TO ANCHOR THE HARDWARE IN POSITION FOR LONG LIFE UNDER HARD USE.

FURNISH ITEMS COMPLETE WITH EXPANSION SHIELDS, TOGGLE BOLTS AND OTHER ANCHORS, IN ACCORDANCE WITH THE MATERIAL TO WHICH THE HARDWARE IS TO BE APPLIED AND THE RECOMMENDATIONS OF THE HARDWARE MANUFACTURER.

FASTENER FINISH SHALL HARMONIZE WITH THE HARDWARE MATERIAL. INSTALL HARDWARE ITEMS IN ACCORDANCE WITH THE SCHEDULE INCLUDED ON THE DRAWINGS, EXCEPT AS SPECIFICALLY REQUIRED TO COMPLY WITH LOCAL CODES AND AS RECOMMENDED BY THE DOOR AND HARDWARE INSTITUTE.

INSTALL HARDWARE IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SET UNITS LEVEL, PLUMB AND TRUE. ADJUST AND CHECK OPERATION OF EVERY UNIT. REPLACE UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY.

COORDINATE WITH OTHER TRADES TO ASSURE PROPER AND ADEQUATE PROVISION IN THE WORK OF THOSE TRADES FOR INTERFACE WITH THE WORK OF THIS SECTION.

5. INSULATING GLASS UNIT

TEMPERED GLASS SHALL CONFORM WITH CPSC, ANSI, Z97.1, ASTM, FGMA STANDARDS

ENERGY CODE DATA FOR GLASS: REFER TO WINDOW SCHEDULE FOR SPECIFICATION.

6. GLAZING

ALL GLAZING SHALL CONFORM TO CONSUMER PRODUCT SAFETY STANDARD 16 CFR, PART 1201.

ALUMINUM STOREFRONT SYSTEM: THE SYSTEM SHALL BE AS NOTED ON THE DRAWINGS AS MANUFACTURED BY: KAWNEER COMPANY, INC., NORTHRUP ARCHITECTURAL SYSTEM.

STORE FRONT SHALL BE STRUCTURALLY REINFORCED, EXTRUDED ALUMINUM FRAMING COMPLETE WITH GLASS, NON-STRETCH HIGH SHORE VINYL AND ANCHORAGE ATTACHMENTS AND SHIMS REQUIRED TO SECURE WINDOW WALLS TO BUILDING STRUCTURAL SYSTEM.

FRAMES: SIZES AS SHOWN ON THE DRAWINGS, COMMERCIAL QUALITY EXTRUDED ALUMINUM (ASTM B221), COMPLETE WITH MATCHING PROFILE STOPS TO SUIT FRAMES AND OF ADEQUATE SIZE TO PROVIDE SUFFICIENT BITE ON GLASS, AND DRILLED HOLES, DEFLECTOR PLATES AND INTERNAL FLASHING TO ACCOMMODATE INTERNAL WEEP AND DRAINAGE SYSTEM.

REFER TO WINDOW SCHEDULE FOR ANODIZED ALUMINUM FINISH COLOR.

7. DRIVE-THRU WINDOW

PASS THROUGH WINDOW AT DRIVE-THRU WITH LOCK, PRE-GLAZED WITH ALUMINUM FRAME, SEE WINDOW SCHEDULE ON ELEVATION SHEETS FOR MANUFACTURERS AND DETAILED SPECS.

# DIVISION 9 - FINISHES

1. GYPSUM WALLBOARD

PROVIDE ALL WORK IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS AS REQUIRED HEREIN AND AS SHOWN ON THE DRAWINGS FOR COMPLETE ERECTION AND FINISH OF DRYWALL PARTITIONS.

COMPLY WITH "GYPSUM CONSTRUCTION AND HANDBOOK" BY UNITED STATES GYPSUM CO. AND "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM BOARD" BY THE GYPSUM ASSOCIATION FOR ALL INSTALLATION WORK.

FIRE-RATED GYPSUM WALLBOARD, ASTM C63078. USE 4 FEET WIDE SHEETS WITH LONG TAPERED EDGE. THICKNESS SHALL BE 5/8". UNITED STATES GYPSUM CO. SHEET-ROCK W/R FIRE CODE "C" FOR FIRE RATED PANELS. SEAL ALL EXPOSED AND CUT EDGES PER MANUFACTURERS RECOMMENDATIONS.

USE 5/8" MOISTURE RESISTANT GYPSUM BOARD IN AREAS SPECIFIED ON THE PLANS AND AT ALL TILE WORK WITHIN 48" OF WET AREAS. EACH SHEET SHALL BE MARKED BY THE MANUFACTURER INDICATING THE MOISTURE RESISTANT CAPABILITIES OF THE PRODUCT.

INSTALL GYPSUM WALLBOARD WITH LONG DIMENSION PERPENDICULAR TO FRAMING.

INSTALL PER MANUFACTURE'S WRITTEN INSTRUCTIONS.

METAL-STUDS-CHANNEL-TYPE, ROLL FORM 20 GAUGE MIN (UNLESS NOTED OTHERWISE), SIZE AS NOTED ON DRAWINGS.

CARRYING CHANNELS AND HANGING WIRE - 1-1/2" DEEP, 475 LBS PER 1,000 FEET. MINIMUM 8 GAUGE HANGING WIRE AT 48" OC EACH WAY.

FURRING CHANNELS - 1/2" HAT SHAPED.

FASTENING: NAILS-NO. 19 GAUGE, 1-3/8" LONG, 15/64" HEAD ANNULAR RING NAIL, 7" ON CENTER AT CEILING, 8" ON CENTER AT WALLS.

SCREWS - METAL SUSPENSION, SYSTEM, TYPE "S-12" BUGLE, SELF-TAPPING, 3/4" MINIMUM PENETRATION IN METAL FRAMING.

METAL EDGES SHALL BE APPLIED AT ALL EXPOSED CORNERS, ENDS, ETC.

ACCESS PANELS: INRYCO/MILCOR, (414) 383-4030; TYPE "M" WITH FLUSH SCREW DRIVE OPERATED LOCKS. IN GYPSUM DRYWALL AND CEILINGS USE PRIME COATED STEEL. IN TILE FINISH WALL AND "FRP" FINISH WALLS USE STAINLESS STEEL FRAMES AND PANELS.

2. CERAMIC TILE

STANDARDS: MORTAR AND GROUT MATERIALS AND INSTALLATION STANDARDS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) AND STANDARD SPECIFICATION FOR CERAMIC TILE ANSI A137.1 APPLY TO THE WORK, EXCEPT AS OTHERWISE INDICATED.

MATERIALS: REFER TO TILE SCHEDULE

TRIM SHAPES: SAME MATERIAL, SIZE, COLOR AND TEXTURE AS FIELD TILE UNLESS NOTED OTHERWISE.

EDGE STRIPS: PROVIDE AT EXPOSED EDGE OF TILE MEETING CARPET, WOOD OR RESILIENT FLOORING UNLESS NOTED OTHERWISE REFERENCE DRAWINGS FOR SIZE AND SHAPE.

CLEANING AND PROTECTION: CLEAN TILE IN ACCORDANCE WITH APPLICABLE ANSI STANDARD FOR TYPE OF TILE AND METHOD OF INSTALLATION USED AND MANUFACTURER'S INSTRUCTIONS. APPLY HEAVY KRAFT PAPER OR OTHER HEAVY PROTECTIVE COVERING TO PREVENT SURFACE DAMAGE.

3. LAY-IN CEILING TILE

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, ETC., REQUIRED TO SUPPLY AND INSTALL ARMSTRONG LAY-IN TILE AND CHICAGO METALLIC SUSPENSION SYSTEM, INCLUDING WIRE HANGERS, MAIN TEE RUNNERS, CROSS TEES, ANGLE MOLDING AND HOLD-DOWN CLIP WHERE REQUIRED. SEE REFLECTED CEILING PLAN AND COLOR LEGEND FOR MANUFACTURER AND TYPE.

SUSPENSION SYSTEM: MAIN TEE RUNNERS SHALL BE INSTALLED AT 48" O.C. HAVING CROSS TEES AT 24" O.C. INCLUDING #425 ACCESSIBLE HOLD-DOWN CLIPS AND PERIMETER WALL MOLDING AT ALL VERTICAL ABUTTING SURFACES.

CONTRACTOR TO PROVIDE 1 CARTON, TEN (10) PIECES MINIMUM AT JOB SITE TO OWNER'S REPRESENTATIVE FOR FUTURE MAINTENANCE.

COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

4. PAINTING
WORK INCLUDES SURFACES PREPARATION AND PAINTING OR FINISHING OF ALL INTERIOR SURFACES EXPOSED TO VIEW, THROUGHOUT THE PROJECT. WHERE ITEMS OR SURFACES ARE NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR AREAS. THE WORK OF THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO PAINTING OR FINISHING OF ALL INTERIOR DRYWALL SURFACES NOT FINISHED OTHERWISE.

MATERIALS: PROVIDE PRODUCTS EQUAL TO MATERIALS LISTED IN THE FINISH SCHEDULE. NOTE THAT PROPRIETARY NAMES USED TO DESIGNATE COLORS (ON THE DRAWINGS) OR MATERIALS (SCHEDULED HEREIN) ARE NOT INTENDED TO IMPLY THAT PRODUCTS OF NAMED MANUFACTURER ARE REQUIRED TO EXCLUSION OF EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS. PRIOR APPROVAL OF OWNERS REPRESENTATIVE REQUIRED.

SURFACE PREPARATION: CLEAN SURFACES OF DIRT, RUST SCALE, GREASE, MOISTURE OR OTHER CONDITIONS OTHERWISE DETRIMENTAL TO FORMATION OF A DURABLE PAINT FILM. PERFORM PREPARATION AND CLEANING PROCEDURES IN ACCORDANCE WITH PAINT MANUFACTURER'S PRINTED INSTRUCTIONS FOR EACH PARTICULAR SUBSTRATE CONDITION.

GALVANIZED METAL: CLEAN ALL SURFACES THOROUGHLY WITH SOLVENT UNTIL THEY ARE COMPLETELY FREE FROM DIRT, OIL AND GREASE. ALLOW TO DRY THOROUGHLY BEFORE APPLICATION OF PAINT.

REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES, AND SIMILAR ITEMS IN PLACE AND NOT TO BE FINISH PAINTED, OR PROVIDE SURFACED APPLIED PROTECTION PRIOR TO SURFACE PREPARATION AND PAINTING OPERATIONS. REMOVE, IF NECESSARY, FOR COMPLETION OF PAINTING OF EACH SPACE OR AREA, REINSTALL REMOVED ITEMS.

APPLICATION: THE FINISHED SURFACE SHALL BE FREE FROM RUNS, SAGS, DROPS, RIDGES, WEAVES, LAPS, BRUSH MARKS AND VARIATIONS IN COLOR, TEXTURE AND FINISH.

COATING PROCESS: SUFFICIENT TIME SHALL ELAPSE BETWEEN SUCCESSIVE COATS TO PERMIT PROPER DRYING.

MIXING AND THINNING: AT TIME OF APPLICATION, PAINT SHALL SHOW NO SIGNS OF HARD SETTLING, EXCESSIVE SKINNING, LIVERING OR OTHER DETERIORATION. PAINT SHALL BE THOROUGHLY STIRRED, STRAINED AND KEPT AT A UNIFORM CONSISTENCY DURING APPLICATION.

STORAGE: THE PAINTER SHALL STORE ALL MATERIALS AND EQUIPMENT IN A ROOM ASSIGNED FOR THAT PURPOSE. PRECAUTIONS SHALL BE TAKEN TO REDUCE FIRE HAZARD AND THE ROOM SHALL BE KEPT CLEAN AND IN GOOD CONDITION.

CLEAN UP: SCHEDULE ALL CLEANING AND PAINTING SO THAT DUST AND OTHER CONTAMINANTS FROM THE CLEANING PROCESS WILL NOT FALL ON WET, NEWLY PAINTED SURFACES. DURING THE PROGRESS OF THE WORK, DO NOT ALLOW THE ACCUMULATION OF EMPTY CONTAINERS OR OTHER EXCESS ITEMS. REMOVE FROM SITE DISCARDED PAINT MATERIALS, RUBBISH, CANS AND RAGS AT END OF EACH WORK DAY. UPON COMPLETION OF PAINTING WORK, CLEAN WINDOW GLASS AND OTHER PAINT SPLATTERED SURFACES. REMOVE SPLATTERED PAINT AND REPAIR DEFACED PAINTED SURFACES AFTER COMPLETION OF WORK OF OTHER TRADES. IF OWNER DEEMS CLEAN-UP IS NOT SATISFACTORY, AN INDEPENDENT CLEANING SERVICE WILL BE BROUGHT IN, AT THE CONTRACTOR'S EXPENSE TO COMPLETE THE CLEAN-UP.

CONTRACTOR SHALL PROVIDE ONE (1) QUART OF UNOPENED PAINT, STAIN AND SEALER OF EACH COLOR AND TYPE USED IN LABELED, COVERED CANS FOR THE OWNER. PLACE IN CARTONS FOR STORAGE.

SEE PAINT SCHEDULE, SHEET G-005. FINAL FINISH IS SUBJECT TO APPROVAL BY OWNER, IF FINISH IS DEEMED UNSATISFACTORY, ANOTHER APPLICATION WILL BE REQUIRED AT THE CONTRACTORS EXPENSE. PROVIDE PAINT AND COATINGS AS LISTED BELOW:

EXTERIOR PAINTING

A. METAL
ONE COAT PRIMER
TWO COATS PER SCHEDULE
(NOTE: PRIMER MAY BE ELIMINATED IF ITEM IS FACTORY PRIMED)

B. CEMENT PLASTER:
ONE COAT PRIMER
TWO COATS PER SCHEDULE

C. CONCRETE MASONRY (EXPOSED):
ONE COAT SEALER
TWO COATS MASONRY PAINT PER SCHEDULE

D. SAW-TEXTURED WOOD SURFACE:
ONE COAT STAIN PER SCHEDULE

E. TRASH ENCLOSURE (INSIDE)
ONE COAT CONCRETE BLOCK FILLER
TWO COATS VINYL-ACRYLIC PAINT, COLOR TO MATCH BUILDING

6. INTERIOR PAINTING

A. METAL
ONE COAT PRIMER
TWO COATS PER SCHEDULE
(NOTE: PRIMER MAY BE ELIMINATED IF ITEM IS FACTORY PRIMED)

B. WOOD DOORS (PAINTED):
ONE COAT INTERIOR TRIM PRIMER
TWO COATS PER SCHEDULE

C. SMOOTH FINISH GYPSUM BOARD WALL AND CEILINGS
(GLOSS OR EGGSHELL):
ONE COAT WALL PRIMER
TWO COATS PER SCHEDULE

D. OAK TRIM (SMOOTH WOOD) "LACQUERED"
ONE COAT LACQUER SANDING SEALER
TWO COATS SEMI-GLOSS LACQUER

E. INSIDE THROATS OF AIR CONDITIONING SUPPLY AND RETURN
DUCTS IN PUBLIC AREAS
SPRAY BLACK TO A POINT OUT OF VIEW

GENERAL FINISH NOTES

ALL TILE DIMENSIONS ARE DESIGNED TO LAY OUT IN AN EQUAL MANNER. IF TILE MUST BE CUT, THE GROUT LINES SHALL ALIGN WITH ADJACENT TILES OR BE CENTERED AND CUT IN AN OBVIOUS LOCATION. GC SHALL COORDINATE THE INSTALLATION OF GYP BD WITH TILE DIMENSIONS TO PERMIT EVEN INSTALLATION.

ALL SURFACES TO RECEIVE PAINT FINISH SHALL BE PREPARED TO SHOW NO DEFECTS.
A. APPLY ONE (1) COAT PRIMER-SEALER
B. APPLY TWO (2) COATS FINISH. NO STIPPLE FINISH ON ALL PAINTED SURFACES.
SEE SCHEDULE ON PLANS FOR COLOR AND TYPE.

ALL INTERIOR GYP BD TO RECEIVE PAINT FINISH SHALL BE TAPED, SEALED AND SANDED TO RECEIVE FINISH. GYP BD UNDER FRP OR SS SHALL ONLY BE FIRE TAPED AND SANDED. ALL INTERIOR GYP BD TO BE TRUE AND LEVEL.

GYP BD SHALL EXTEND A MINIMUM OF 6" ABOVE LAY-IN CEILING OR UP TO GYP BD CEILING. GYP BD ON DEMISING WALLS SHALL EXTEND TO THE STRUCTURE ABOVE UNLESS OTHERWISE NOTED.

ALL FLOORS SHALL BE SMOOTH AND LEVEL WITHOUT DEPRESSED OR RAISED AREAS, EXCEPT PROVISION SHALL BE MADE TO HAVE SMOOTH, EVEN SLOPE TO FLOOR DRAINS. THE SURFACE SHALL BE ACCEPTABLE TO RECEIVE FINISH.

VERIFY AND COORDINATE THE LOCATION OF ALL WALL OR CEILING ACCESS PANELS WITH THE OWNER'S PROJECT MANAGER.

PROVIDE METAL CORNER BEAD, TRIM AND CASING FOR ALL EDGES AND CORNERS OF GYP BD SURFACES ON PAINTED WALLS. CLEAN GYP BD CORNERS WITHOUT METAL CORNER BEADS SHALL BE UNDER FRP, TILE, OR SS.

PROVIDE STIFFENERS, BRACING, BACK-UP PLATES, ETC AS REQUIRED AT STUD WALLS FOR SUPPORT OF FIXTURES AND OTHER EQUIPMENT.

ALL EXISTING SURFACES SHALL BE INSPECTED AND ALL NECESSARY PREPARATORY WORK SHALL BE DONE IN ORDER TO RECEIVE NEW FINISHES.

BEFORE PAINTING OR FINISHING WORK IS TO BEGIN, ARRANGEMENTS SHALL BE MADE FOR PROPER VENTILATION AND LIGHTING IN ALL AREAS.

ALL FLOOR MATERIAL CHANGES SHALL OCCUR AT DOOR CENTERLINE UNLESS OTHERWISE NOTED.

FLOOR MATERIALS SPECIFIED ON THE FINISH SCHEDULE SHALL EXTEND UNDER ALL EQUIPMENT AND COUNTER AREAS.

FLOOR CONTRACTOR SHALL SUBMIT TO OWNER THREE COPIES OF MANUFACTURER'S MAINTENANCE MANUALS FOR THE FLOOR MATERIAL INSTALLED.

ALL TILE SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE HANDBOOK FOR CERAMIC TILE INSTALLATION OF THE TILE COUNCIL OF AMERICA (CURRENT EDITION).

ALL INTERIOR FINISHES SHALL COMPLY WITH APPLICABLE LOCAL CODES AND REGULATIONS.

EACH SUBCONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ADEQUATE SURFACE CONDITIONS EXIST FOR THEIR WORK. IF ADEQUATE SURFACE CONDITIONS DO NOT EXIST THE SUBCONTRACTOR SHALL NOT PERFORM THEIR WORK UNTIL THE CONDITION IS CORRECTED.

CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.

# DIVISION 10 - SPECIALTIES

1. PORTABLE FIRE EXTINGUISHERS

PROVIDE CLASS ABC, 10 LB. DRY CHEMICAL OR AS REQUIRED BY FIRE CODES. MINIMUM (ONE) FURNISHED BY GC AT START OF CONSTRUCTION.

2. WALL VENT

GALVANIZED STEEL FRAME AND 45 DEG. BLADES, INSECT SCREEN, PRIME COATED. SEE DRAWINGS FOR SIZE.

3. SOFFIT VENT

FRY REGLET "CLEAR FINISH EIFS SOFFIT VENT" 3" W X 1/2"D.

4. TOILET ROOM ACCESSORIES

SEE ARCHITECTURAL DRAWINGS FOR TOILET ROOM ACCESSORIES SCHEDULE.

# DIVISION 11 - EQUIPMENT

1. FOOD SERVICE EQUIPMENT

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THIS WORK AND FOR ASSEMBLIES AND HOOK-UP OF FOOD SERVICE EQUIPMENT PROVIDED BY OTHERS, SUCH AS, BUT NOT LIMITED TO, WALK-IN COOLER, WALK-IN FREEZER AND COMPLETE HOT WELLS SERVICE COUNTER ASSEMBLIES.

2. RELATED WORK DESCRIBED ELSEWHERE

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR WORK OF SECTION "PLUMBING" INCLUDES SETTING OF FAUCETS AND CONNECTIONS TO SERVICES, INTERCONNECTIONS OF EQUIPMENT, FLOOR DRAINS IN THE VICINITY OF INDIRECT DRAIN OUTLETS, FAUCETS AND TRIM.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRIC WORK INCLUDES ALL LINE SWITCHES, SAFETY CUT-OUTS, CONTROL PANELS, FUSE BOXES AND OTHER CONTROLS, ELECTRICAL RECEPTACLES, FITTINGS AND CONNECTIONS, EXCEPT AS OTHERWISE SPECIFIED IN SECTION "ELECTRICAL", ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO BUILDING FROM ALL JUNCTION BOXES.

3. AS-BUILT DRAWINGS

GENERAL CONTRACTOR SHALL KEEP AN ACCURATE DIMENSIONED RECORD ON REPRODUCIBLE TRANSPARENCIES OF AS-BUILT LOCATIONS, AND OF WORK WHICH IS INSTALLED DIFFERENTLY FROM THAT SHOWN.

4. LOCATIONS AND ACCESSIBILITY

CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING PECULIARITIES AND LIMITATIONS OF SPACES AVAILABLE FOR INSTALLATION OF WORK AND MATERIALS FURNISHED AND INSTALLED UNDER THIS DIVISION. DRAWINGS INDICATE LOCATION AND ARRANGEMENT OF CONDUIT, EQUIPMENT AND OTHER ITEMS AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. WORK SPECIFIED AND NOT CLEARLY DEFINED BY DRAWINGS SHALL BE INSTALLED AND ARRANGED IN A MANNER SATISFACTORY TO PANDA PM. IN EVENT CHANGES IN INDICATED LOCATIONS AND ARRANGEMENTS ARE DEEMED NECESSARY BY PANDA PM, THEY SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGES PROVIDED THAT THE CHANGES ARE ORDERED BEFORE THE WORK IS INSTALLED AND NO EXTRA MATERIALS OR LABOR ARE REQUIRED.

5. CLEANING OF EQUIPMENT, MATERIALS AND PREMISES

CLEAN EQUIPMENT AND MATERIALS THOROUGHLY. LEAVE SURFACES TO BE PAINTED SMOOTH AND CLEAN, READY FOR PAINTERS. CLEAN ENTIRE PREMISES OF UNUSED MATERIALS, RUBBISH, DEBRIS AND DIRT CREATED BY WORK UNDER THIS DIVISION.

6. OPERATION AND MAINTENANCE INSTRUCTIONS

FULLY INSTRUCT AND DEMONSTRATE TO THE OWNER'S OPERATING PERSONNEL THE PERFORMANCE, OPERATION AND MAINTENANCE OF EQUIPMENT. THE TIME ALLOWED FOR SAID INSTRUCTION SHALL BE ALLOWED FOR EACH CONTRACTOR AS PART OF THESE CONTRACT DOCUMENTS.

7. TESTING AND ADJUSTMENT

UPON COMPLETION OF ELECTRICAL WORK, ADJUST AND TEST CIRCUITS, OUTLETS, SWITCHES, LIGHTS, MOTORS AND TIME CLOCKS TO INSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT. CHECK SERVICE VOLTAGES UNDER MAXIMUM LOAD. ITEMS, FIXTURES AND PARTS IN NEED OF CORRECTION AND DISCOVERED DURING SUCH TESTING SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH NEW EQUIPMENT, AND THAT PART OF THE SYSTEM SHALL BE RETESTED. SUCH REPLACEMENT OR REPAIR SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

# DIVISION 12 - FURNISHINGS

1. NOT USED

# DIVISION 13 -SPECIAL CONSTRUCTION

1. NOT USED

# DIVISION 14 - CONVEYING SYSTEM

1. NOT USED

# DIVISION 15 - MECHANICAL

1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR SPECIFICATIONS

# DIVISION 16 - ELECTRICAL

1. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL SPECIFICATIONS

# FIRE PREVENTION NOTES

1. ALL WORK SHALL COMPLY WITH THE VERSION OF THE NFPA 1, FIRE CODE AS AMENDED AND ADOPTED BY THE LOCAL AGENCIES HAVING AUTHORITY.

2. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS (NUMBER AND TYPE) AS SHOWN ON THE DRAWINGS AND REQUIRED BY LOCAL JURISDICTIONS. COORDINATE EXACT LOCATIONS WITH PANDA EXPRESS'S REPRESENTATIVE.

3. PROVIDE ONE PORTABLE FIRE EXTINGUISHER WHICH HAS A CLASSIFICATION OF NOT LESS THAN K TYPE FOR KITCHEN (UFC SEC. 10.303) LOCATION TO BE APPROVED BY THE LOCAL AUTHORITIES PRIOR TO INSTALLATION.

4. PENETRATIONS OF RATED WALLS SHALL BE PROTECTED BY ASSEMBLIES OF APPROPRIATE RATING, INCLUDING DOORS, DUCTS, ETC. ALL REQUIRED FIRE DAMPER ASSEMBLIES INCLUDING SLEEVES AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING DEPARTMENT INSPECTOR PRIOR TO INSTALLATION.

5. ALL AIR-HANDLING CUT-OFF AND SMOKE-DETECTED FIRE DAMPING EQUIPMENT REQUIRED BY THE LOCAL AGENCIES HAVING AUTHORITY SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

6. WHERE REQUIRED, FLAME SPREAD RATINGS OF MATERIAL USED IN THE CONSTRUCTION WILL BE SUPPLIED TO THE FIRE DEPARTMENT BY THE CONTRACTOR ORDERING THE MATERIALS.

7. ILLUMINATED EXIT SIGNS WITH BATTERY PACKS AND AUDIBLE SIGNALS SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY CODE.

8. IF REQUIRED, COORDINATE FIRE SPRINKLER SYSTEM REQUIREMENTS WITH LOCAL AUTHORITIES. INSTALLATION SHALL COMPLY WITH NFPA 13. FIRE SPRINKLER PROTECTION SHALL BE PROVIDED ABOVE AND INSIDE WALK-IN COOLER AND FREEZERS.

9. INTERIOR FINISH SHALL COMPLY WITH ALL APPLICABLE CODES.

10. PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM IN THE COOKING EXHAUST HOOD.

11. ALL DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION.

12. DUCTS SERVING A COOKING EXHAUST HOOD SHALL BE ENCLOSED IN A FIRE RATED ENCLOSURE (SEE MECHANICAL DRAWINGS FOR REQUIREMENT).

13. BUILDING NUMBERS SHALL BE EASILY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.

14. THE CONSTRUCTION, REMODEL, OR DEMOLITION OF A BUILDING SHALL COMPLY WITH ALL APPLICABLE CODES.

15. PROVIDE OCCUPANT LOAD SIGN COMPLYING WITH CODE.

16. EXIT DOORS SHALL HAVE PANIC HARDWARE AND SHALL SWING IN THE DIRECTION OF EXIT TRAVEL WHEN SERVING ANY HAZARDOUS AREAS, OR ANY OTHER OCCUPANCY SERVING AN OCCUPANT LOAD OF 50 OR MORE.


PANDA RESTAURANT GROUP INC

# EXTERIOR FINISH SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

01-11-19

| NO | MANUFACTURER | MFG# | COLOR | FINISH | NOTES |
|---|---|---|---|---|---|
| EIFS-1 | STO | STOTHERM ESSENCE SYSTEM | SW 6148 WOOL SKEIN | FINE | BUILDING BODY |
| EIFS-2 | STO | STOTHERM ESSENCE SYSTEM | SW 7067 CITYSCAPE | FINE | BUILDING BODY |
| EIFS-3 | STO | STOTHERM ESSENCE SYSTEM | SW 7069 IRON ORE | FINE | EIFS ACCENT BAND |
| ST-1S | CORONADO STONE PRODUCTS | 900 SERIES | #2 GREY | - | STONE CAP (3/8" VERTICAL JOINT - MORTAR TO MATCH STONE CAP) |
| ST-1 | CORONADO STONE PRODUCTS | INDUSTRIAL LEDGE | SHALE GREY | - | ENTRY PORTAL & WAINSCOT CONTACT: LISA KILGORE: 864-962-1221 PROVIDE 3/8" MORTAR JOINTS. MFG.: ARGOS, COLOR: CHARCOAL |
| CD-1 | FIBERON | WILDWOOD | MULGA | 60% MATERIAL COVERAGE - RANDOM MIX (NON-GROOVE) | COMPOSITE DECKING - CONTACT: ERIC ATKINS @ 770-910-0930 EMAIL: Eric.Atkins@fiberondecking.com |
| CD-2 | FIBERON | WILDWOOD | SUMAC | 40% MATERIAL COVERAGE - RANDOM MIX (NON-GROOVE) | COMPOSITE DECKING - CONTACT: ERIC ATKINS @ 770-910-0930 EMAIL: Eric.Atkins@fiberondecking.com |
| MTL-1 | EXCEPTIONAL METALS | - | "PANDA EXPRESS IRON ORE" | | CAP FLASHING |

# TILE SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

01-11-19

| NO. | MANUFACTURER | DESCRIPTION | COLOR | FINISH | JOINT | GROUT | REMARK |
|---|---|---|---|---|---|---|---|
| T-108 | CMC AGGREGATE DOUG SALATINO 518-713-5371 | 12" X 24" X 3/8" | - | - | 1 / 8" | G-111 | RESTROOM WALL |
| T-111 | DALTILE | 6" X 36" X 3/8" 9" X 36" X 3/8" | FOREST PARK - SUMMERTREE FP95 | MATTE | 1/8" | G-115 | RR VESTIBULE & DINING ROOM WALLS CONTACT: NATIONAL ACCOUNT SUPPORT DESK 877.556.5726 (national.accounts@daltile.com) |
| T-200 | CMC DOUG SALATINO 518-713-5371 | 24" X 24" | BRAVADA GREIGE | MATTE | 1/8" | G-96 | DINING & RESTROOM FLOOR |
| T-300 | EMSER - ECHO | 3" HEXAGON | CALACATTA | MATTE | 1/8" | G-114 | BEVERAGE COUNTER BACKSPLASH AND SERVICE COUNTER |
| T-402 | CMC DOUG SALATINO 518-713-5371 | 8" HEXAGON ROUNDABOUT | GREY | MATTE | 1/8" | G-107 | DINING ROOM FEATURE AREA |
| S1 | SILIKAL | QUARTZ BLEND #4 | - | PLAIN | - | - | KITCHEN, SERVICE FLOOR CONTACT:MARK FELDMAN 770-830-1404 (mfeldman@silikalamerica.com) JOHN COTHRAN 888-830-1404 (jcothran@silikalamerica.com) |
| S2 | SILIKAL | QUARTZ BLEND #4 | - | ABRASIVE | - | - | |
| | | | | | | | |

| GROUT | MANUFACTURER | DESCRIPTION | MFG. | COLOR | FINISH | REMARK |
|---|---|---|---|---|---|---|
| G-96 | MAPEI 800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 11 | SAHARA BEIGE | POLY BLEND 1 / 8" NON-SANDED | DINING & RESTROOM FLOOR APPLY GROUT SEALER |
| G-107 | MAPEI 800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 107 | IRON | POLY BLEND 1 / 8" NON-SANDED | DINNING ROOM FLOOR APPLY GROUT SEALER |
| G-111 | MAPEI 800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 19 | PEARL GREY | POLY BLEND 1 / 8" NON-SANDED | RESTROOM , DINING APPLY GROUT SEALER |
| G-113 | MAPEI 800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 07 | CHOCOLATE | POLY BLEND 1 / 8" NON-SANDED | APPLY GROUT SEALER |
| G-114 | MAPEI 800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 19 | PEARL GREY | POLY BLEND 1 / 8" NON-SANDED | BEVERAGE COUNTER BACKSPLASH APPLY GROUT SEALER |
| G-115 | MAPEI 800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 42 | MOCHA | POLY BLEND 1 / 8" NON-SANDED | APPLY GROUT SEALER |

* REFER A-200 EXTERIOR FINISH SCHEDULE FOR EXTERIOR DECORATIVE TILE

* SCHLUTER SYSTEM ALUMINUM TRIM:

COVE TILE TRIM: INSTALLED AT RESTROOM, SERVICE COUNTER, AND DRINK STATION
SCHLUTER SYSTEMS DILEX-AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR100
-OUTSIDE CORNER CONNECTOR PIECE: DILEX-AHK-E90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-INSIDE CORNER CONNECTOR PIECE: DILEX-AHK-I90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-END CAP PIECE: DILEX-AHK-E/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

EDGE TILE TRIM:
SCHLUTER SYSTEMS RONDEC-RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR101
-OUTSIDE CORNER CONNECTOR PIECE: RONDEC-EV/RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-INSIDE CORNER CONNECTOR PIECE: RONDEC-I2L/RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
SCHLUTER SYSTEMS RONDEC-RO80 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR101A
-OUTSIDE CORNER CONNECTOR PIECE: RONDEC-EV/RO180 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-INSIDE CORNER CONNECTOR PIECE: RONDEC-I2L/RO80 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
SCHLUTER SYSTEMS JOLLY-A 80 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR103
-OUTSIDE EDGE PROTECTION PIECE

* EPOXY GROUT BY MAPEI, KERAPOXY IEG, 100% SOLIDS INDUSTRIAL GRADE:
AREAS: UNDER HOOD AND 36 " IN FRONT OF COOKING LINE, 3 COMPARTMENT SINK AND MOP SINK AREA

SEE MANUFACTURER'S SPECIFICATION, DETAILS AND GUIDE FOR PREPARATION, MIXING, GROUTING AND CLEANING INSTRUCTION
NOTE: SEE INTERIOR SHEETS FOR WALL/ BASE TILE LOCATIONS AND SPECIFICATIONS

# TOILET ACCESSORY SCHEDULE

| NO | DESCRIPTION |
|---|---|
| RG42 | BOBRICK GRAB BAR, 42" LONG B-6806 1 1/2" , SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY GC |
| RG48 | BOBRICK GRAB BAR, 48" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY GC |
| RG18 | BOBRICK GRAB BAR, 18" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY GC |
| RM | BOBRICK CHANNEL FRAME MIRROR B-165 (1836) 18"X36" STAINLESS STEEL CHANNEL FRAME FURNISHED BY LOCKNET, INSTALLED BY GC MOUNT 40" MAX TO BOTTOM OF REFLECTING SURFACE |
| RS | SOAP DISPENSER (BY VENDOR) |
| RMS | BOBRICK SEAT COVER DISPENSER B-221 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY GC |
| RTR | BOBRICK SURFACE MOUNTED TRASH RECEPTACLE MODEL # B-277; FURNISHED BY LOCKNET, INSTALLED BY GC. |
| RHD | PAPER TOWEL DISPENSER FURNISHED BY PANDA EXPRESS, INSTALLED BY GC. |
| RMT | BOBRICK MUTI-ROLL TOILET TISSUE DISPENSER B-2888 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY GC. |
| RT | AMERICAN STANDARD CADET RIGHT HEIGHT ELONGATED TOILET 2467.016 TLT, 4142.600 TANK, AMERICAN STANDARD #5901.100.020 SEAT, COLOR: WHITE. TRIP TO BE ON OPEN SIDE. FURNISHED AND INSTALLED BY GC. |
| RL | ZURN WALL HUNG LAVATORY Z5344, 20" X 18" VITREOUS CHINA, WITH 4" CENTER FAUCET HOLES & ZURN Z-1231 CONCEALED ARM CARRIER FURNISHED AND INSTALLED BY GC. |
| RD | BOBRICK SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL B-254 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY GC. |
| RH | BOBRICK SURFACE-MOUNTED CLOTHES HOOK AND BUMPER B-233 SOLID ALUMINUM CASTING, MATTE FINISH, INSIDE OF RESTROOM DOORS FURNISHED BY LOCKNET, INSTALLED BY GC. |

NOTE: INSULATE ALL PIPES (TRAP & HOT WATER) AT ACCESSIBLE LAVATORIES

# LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

01-11-19

| ITEM | SYMBOL | DESCRIPTION | QTY. | MFR. & CAT. NO. | REMARK |
|---|---|---|---|---|---|
| **INTERIOR LIGHTING ITEM** | | | | | |
| L1 | L1 | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | REFER TO ELECTRICAL SHEET E-001 FOR LIGHTING FIXTURE QUANTITY | LSI FIXTURE: SFP24-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC |
| L1B | L1B | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 2', 120V BAKED-ON WHITE ENAMEL FINISH. | | LSI FIXTURE: ESFP22-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC |
| L1C | L1C | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 1' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | | LSI FIXTURE: SFP14-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC |
| L1EM | L1EM | T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | | LSI FIXTURE: SFP24-LED-FS-UNV-DIM-EM | EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC |
| L4HO | L4HO | UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER | | EXITRONIX GVEX-U-BP-WB-BL-R6 | EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC |
| L6A | L6A | HOOD LIGHT | | FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER | LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL |
| L6B | L6B | WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48" | | KASON FIXTURE: # 1810LX4000 | FURNISHED BY WIC VENDOR, G.R.E. , INSTALLED BY GC |
| L19 | L19 | DOWN LIGHT, RECESSED IN CEILING | | ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90+ | FURNISHED BY OWNER, INSTALLED BY GC |
| L19EM | L19EM | EMERGENCY DOWN LIGHT, RECESSED IN CEILING | | ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90+ | EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC |
| L20 | L20W | 3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING. "W" SHALL DESIGNATE WHITE TRIM USED FOR MENU BD. SOFFIT | | LIGHTOLIER: LYTECASTER-378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - PRECISE IR 37 WATT 40 " BEAM | FURNISHED BY OWNER, INSTALLED BY GC |
| L20 | L20B | 3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING. "B" SHALL DESIGNATE BLACK TRIM USED FOR DINING ROOM CEILING GRID | | LIGHTOLIER: LYTECASTER-378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - PRECISE IR 37 WATT 40 " BEAM | FURNISHED BY OWNER, INSTALLED BY GC |
| L30 | L30 | WHITE LED AT SERVICE COUNTER SOFFIT & DINING ROOM PARTIAL HEIGHT WALL | | LUXEM BRIGHT FIXTURE: BLAZE LED | FURNISHED BY OWNER, INSTALLED BY GC |
| L32 | L32 | WHITE LED AT MURAL LIGHT COVE | | NOVA FLEX - PRO SERIES FIXTURE: BENDABLE 3916 | FURNISHED BY OWNER, INSTALLED BY GC |
| L45 | L45 | 12" DIA. DECORATIVE MORILL PENDANT LF INCANDESCENT | | LBL LIGHTING, MODEL # 6227801-839 BULB: LED EDISON LAMP.1173467 | FURNISHED BY OWNER, INSTALLED BY GC |
| L100 | L100 | MICRO INVERTER | | ISOLITE #IMI 125 | FURNISHED BY OWNER, INSTALLED BY GC |
| L40 | L40C--R | 17.3" DIA. RED CUPOLA PENDANT | | HI-LITE, MODEL #H-VLPDM3-RDMT | FURNISHED BY OWNER, INSTALLED BY GC |
| | S | SPEAKER | | - | FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR |

NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE

**EXTERIOR LIGHTING**

| ITEM | SYMBOL | DESCRIPTION | QTY. | MFR. & CAT. NO. | REMARK |
|---|---|---|---|---|---|
| L40 | L40 | LINEAR LIGHT AT EXTERIOR STORAGE ROOM | REFER TO ELECTRICAL SHEET E-001 FOR LIGHTING FIXTURE QUANTITY | COOPER MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U | FURNISHED BY OWNER, INSTALLED BY GC |
| L85 | | WALL MOUNTED OVER SERVICE DOOR FIXTURE | | HOWARD: VL305 30W LED, BRONZE | OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC |
| L86 | | NAVILITE EMERGENCY LIGHT | | EXITRONIX MLED1-G-WP | OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC |
| L86 AEM | | EXTERIOR RECESS EMERGENCY LIGHT | | ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING WET LOCATION: RL607-14W-120-FL-30K-SN-SN -WET LOCATION | EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC |
| L90 | | DECORATIVE LED WALL SCONCE | | HINKLEY LIGHTING, ATLANTIS; BRONZE; 1649BZ-LED | AT PORTAL OF ENTRY DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC |
| L92 | | WALL MOUNTED OVER SERVICE DOOR FIXTURE | | HINKLEY LIGHTING, SILO; BRONZE; 13594AZ-LL; LED | OVER DRIVE THRU AREA SERVICE DOOR FURNISHED BY OWNER, INSTALLED BY GC |
| L97 | | LED MOTION SECURITY FLOODLIGHT | | LITHONIA LIGHTING OLF 2RH 40K 120V MO BZ | INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142" FURNISHED BY OWNER, INSTALLED BY GC |
| L91 | | DECORATIVE LED WALL SCONCE | | HINKLEY LIGHTING, SILO; BRONZE; 13594AZ-LL; LED | ALONG REAR EIFS BAND FURNISHED BY OWNER, INSTALLED BY GC |

# WINDOW SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

| SYM | WIDTH | HEIGHT | GLASS | FRAME | REMARKS |
|---|---|---|---|---|---|
| A | 18'-10" LIN. FEET | 6'-10" | 1" INSULATED GLASS | DARK BRONZE ALUMINUM STOREFRONT | 1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME REFER WINDOW TYPES FOR INDIVIDUAL SIZES |
| B | 16'-0" LIN. FEET | 6'-10" | 1" INSULATED GLASS | DARK BRONZE ALUMINUM STOREFRONT | 1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME REFER WINDOW TYPES FOR INDIVIDUAL SIZES |
| C | 6'-10" | 8'-2" | 1" INSULATED GLASS | DARK BRONZE ALUMINUM STOREFRONT | 1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME |
| D | 5'-7" | 10'-0" | 1" INSULATED GLASS | DARK BRONZE ALUMINUM STOREFRONT | 1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME |
| E | 4'-0" | 59.5" | TEMPERED GLASS | DARK BRONZE ANODIZED ALUMINUM | QUIK-SERV HEATED AIR CURTAIN, ROUGH OPENING 48" X 60" SEE ADDITIONAL NOTE # 5. CONTACT: WADE ARNOLD, 800-388-8307 |
| | | | | | |
| | | | | | |

NOTES
1. INSULATING GLASS VITRO ARCHITECTURAL GLAZING SOLARBAN 60 LOW E: WINTER U=0.29 SHGC: 0.25 VIS TRANS: 35%
2. DOORS: FULL GLAZED DOORS W/10" KICK BASE, ANODIZED ALUM FINISH. REFER HARDWARE SCHEDULE.
3. WINDOW DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. G.C. TO VERIFY ACTUAL WINDOW DIMENSIONS PRIOR TO FABRICATION INSTALLATION. GLASS FACADE AND ENTRY DOORS TO BE DESIGNED, DETAILED, FACTORY FABRICATED AND SITE ASSEMBLED AND ERECTED.
4. MANUFACTURER: QUIK-SERV, MODEL SST-4860E WITH THRU-BEAM PHOTO-ELECTRIC BAR. REGIONAL APPLICATION WITH CF-25 NON HEATED AIR CURTAIN OR CHF-25 HEATED AIR CURTAIN. TYPE OF AIR CURTAIN LISTED ON WINDOW SCHEDULE.
5. WINDOW SYSTEM SHALL COMPLY WITH APPLICABLE SECTION AND CHAPTER 0F BUILDING CODE.

(T) TEMPERED GLASS

# FINISH SCHEDULE

01-11-19

| ROOM NAME | FLOOR | BASE | WALL | CEILING |
|---|---|---|---|---|
| 100 DINING ROOM | T200 24" X 24" TILE | T109 6" X 36" TILE | P101, P104 PAINT<br>T109 TILE<br>W102 WALL COVERING | C1 2' X 2' ARMSTRONG, SEPIA #PN91311<br>C3 GYP BOARD W/ PAINT P103 |
| 101 SERVING AREA | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | S1 6" H CONT (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)<br>T109 TILE | | C3 GYP BOARD W/ SMOOTH WASHABLE PAINT |
| 102 DRIVE-THRU STATION | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | S1 6" H CONT (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS) | WP1 FRP PANEL | C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS |
| 103 KITCHEN | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | S1 6" H CONT (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS) | WP3 SS BEHIND COOK LINE<br>WP1 FRP PANEL | C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS |
| 104 KITCHEN PREP. | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | S1 6" H CONT (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS) | WP1 FRP PANEL | C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS |
| 105 WALK-IN COOLER | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | SS WITH 3/4" RADIUS | EXT SS<br>INT SS | STAINLESS STEEL |
| 105A WALK-IN FREEZER | S1 SILIKAL UNDER WIF SUBFLOOR | SS WITH 3/4" RADIUS | EXT SS<br>INT STUCCO EMBOSSED COATED SS | STUCCO EMBOSSED COATED STEEL |
| 106 MEN'S ROOM | T200 24" X 24" TILE | SCHLUTER | T108 TILE | C3 GYP BOARD W/ P101 SMOOTH WASHABLE PAINT |
| 107 WOMEN'S ROOM | T200 24" X 24" TILE | SCHLUTER | T108 TILE | C3 GYP BOARD W/ P101 SMOOTH WASHABLE PAINT |
| 108 VESTIBULE | T200 24" X 24" TILE | T109 6" X 36" TILE | P104 PAINT GYP BOARD<br>T109 TILE | C3 GYP BOARD W/ P101 SMOOTH WASHABLE PAINT |
| 109 NOT USED | - | - | - | - |
| 110 EXTERIOR STORAGE | SEALED CONCRETE, SMOOTH FINISH | - | WP1 FRP PANEL | C3 GYP BOARD W/ P101 SMOOTH WASHABLE PAINT |

# DOOR & HARDWARE SCHEDULE

INSTALLED AND FURNISHED BY GC UNLESS NOTED OTHERWISE

CONTRACTOR TO PURCHASE DOOR HARDWARE & FRAME DIRECTLY FROM PANDA'S NATIONAL ACCOUNT SUPPLIER. SUPPLIER TO PROVIDE ALL STOREFRONT DOOR HARDWARE, P-LAM DOORS & FRAMES AND HM DOORS & FRAMES

CONTACT FOR QUOTING, ORDERING & LOGISTICS
APRIL WALDREN, PROJECT MANAGER
800-887-4307 EXT. 350 PHONE
AprilW@locknet.com, panda@locknet.com

CONTACT FOR GENERAL ACCOUNT NEEDS
ANGIE HAINES, ACCOUNT MANAGER
800-887-4307 EXT. 145 PHONE / 859-509-4031 MOBILE
AngieH@locknet.com, panda@locknet.com

ADDITIONAL CONTACTS:
THOMAS DOWNS, SALES MANAGER; ThomasD@locknet.com; 800-887-4307 x116
EDDIE ANDUEZA, DIR. ARCH. DOOR & HARDWARE SOL.; eddiea@locknet.com; 859-432-2289

NOTE:
CONTRACTOR HAS THE OPTION TO PURCHASE STOREFRONT HARDWARE FROM OTHER SOURCE. PROVIDED THE HARDWARE IS PER SPECS, NO SUBSTITUTIONS ALLOWED. STOREFRONT HARDWARE SPECS ARE PROVIDED IN THE PROJECT BID PACKAGE. COORDINATE WITH PANDA PROJECT MANAGER LISTED ON SHEET G-001

| NO. | DOOR MATERIAL | SIZE | FRAME | FACE/EDGE | THK. | CORE | LITE | RATE | HARDWARE: PASSAGE | LOCKSET | ELECT. MAG-LOCK W/ENTRY KEYPAD & EXIT BUTTON | PRIVACY | S.F. PULL | S.F. PUSH | PANIC | BUTT | HINGE: CONT. PIANO | STOP: FLOOR | STOP: WALL | ACCESSORIES: THRESHOLD | LATCH GUARD | DETEX ALARM | SILENCERS | KICKPLATE | CLOSER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | ALUMINUM STOREFRONT | 3'-0" X 7'-0" | ALUM. | DARK BRONZE ANODIZED ALUM. | 1 3/4" | HOLLOW | GLASS | - | | ● | | | | ● | ● | | ● | ● | | | | | | | ● | |
| 02 | ALUMINUM STOREFRONT | 3'-6" X 7'-0" | ALUM. | DARK BRONZE ANODIZED ALUM. | 1 3/4" | HOLLOW | GLASS | - | | ● | | | | ● | ● | | ● | ● | | | | | | | ● | PROVIDE PULL ON EXTERIOR SIDE |
| 03 | S.C. WOOD | 3'-0" X 7'-0" | H. MTL | PLASTIC LAMINATE, PRE-FINISHED | 1 3/4" | SOLID | - | - | | | | ● | | | | ● | | | ● | | | | ● | ● | ● | KICKPLATE ON EACH SIDE OF DOOR |
| 04 | NOT USED | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | |
| 05 | HOLLOW METAL | 3'-6" X 7'-0" | H. MTL | PAINTED | 1 3/4" | INSUL. | - | - | | | | | | | ● | | ● | | | | | | ● | ● | ● | KICKPLATE ON INT. SIDE OF DOOR |
| 06 | HOLLOW METAL | (2) 3'-0" X 7'-0" | H. MTL | PAINTED | 1 3/4" | INSUL. | - | - | | | ● | | | | | | ● | | | | | | ● | ● | | |
| 07 | HOLLOW METAL | 3'-0" X 7'-0" | H. MTL | PAINTED | 1 3/4" | INSUL. | - | - | | | ● | | | | | | ● | | | | | | ● | ● | | WITH LOUVERED VENT & BUG SCREEN |
| 08 | ALUMINUM STOREFRONT | 3'-0" X 7'-0" | ALUM. | DARK BRONZE ANODIZED ALUM. | 1 3/4" | HOLLOW | GLASS | - | | ● | ● | | ● | ● | | | ● | ● | | | | | ● | | | ONE-WAY TINTING FILM ON INTERIOR SIDE |

# WALL SCHEDULE

INSTALLED AND FURNISHED BY. GC UNLESS NOTED OTHERWISE

| NO | DESCRIPTION |
|---|---|
| X1 | 3-5/8" 20GA METAL STUD WALL W/ 5/8" TYPE "X" GYP BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| X2 | 3-5/8" 20GA METAL STUD WALL W/ 5/8" TYPE "X" GYP BOARD ON ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| X3 | (2) 3-5/8" 20GA METAL STUD WALLS W/ 5/8" TYPE "X" GYP BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| X4 | 3-5/8" 20GA METAL STUD LOW WALL W/ 5/8" TYPE "X" GYP BD BOTH SIDES. PROVIDE 3 1/2" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" OC |
| X5 | 6" 20GA METAL STUD WALL W/ 5/8" TYPE "X" GYP BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| X6 | 6" 20GA METAL STUD WALL W/ 5/8" TYPE "X" GYP BOARD ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| X7 | 6" 20GA METAL STUD LOW WALL W/ 5/8" TYPE "X" GYP BOARD BOTH SIDES. PROVIDE 3 1/2" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" OC |
| X9 | 2 1/2" 20GA METAL STUD FURRING W/ 5/8" TYPE "X" GYP BOARD ON ONE SIDE. REFER DETAILS FOR FURRING DISTANCE |

# WALL PANEL SCHEDULE

INSTALLED AND FURNISHED BY GC UNLESS NOTED OTHERWISE

| NO | MANUFACTURER | DESCRIPTION | MFG # | COLOR FINISH | REMARK |
|---|---|---|---|---|---|
| WP1 | CRANE COMPOSITES INC. | FRP THICKNESS: 075 | LBCS.14 | #636 (GRAY), SM/SM | CONTACT: LINDA RUSE 310.857.9036 |
| WP2 | - | SS PANEL (22 GA) | - | BRUSHED FINISH | FURNISHED BY PX. INSTALLED BY GC |
| WP3 | - | SS PANEL (22 GA) | - | DIAMOND PATTERN FINISH | FURNISHED BY PX. INSTALLED BY GC |
| WP4 | NOT USED | | | | |
| WP5 | NOT USED | | | | |
| W101 | NOT USED | | | | |
| W102 | WOLF GORDON | RED BAMBOO | - | - | CONTACT: CATHY DY 310.770.1165 cathy.dy@wolfgordon.com |
| W103 | WOLF GORDON | CLOUD WALLCOVERING | - | - | CONTACT: CATHY DY 310.770.1165 cathy.dy@wolfgordon.com |

# SPECIAL SURFACE SCHEDULE

INSTALLED AND FURNISHED BY. GC UNLESS NOTED OTHERWISE

| NO | MANUFACTURER | PRODUCT | MFG # | STAIN / COLOR | FINIISH | REMARK |
|---|---|---|---|---|---|---|
| QZ-5 | NOT USED | | | | | |
| QZ-6 | NOT USED | | | | | |
| QZ-7 | CORIAN | ARTIFICIAL QUARTZ | - | LONDON SKY | POLISHED | |
| QZ-8 | DALTILE | ARTIFICIAL QUARTZ | - | BROADWAY BLACK | POLISHED | SERVICE COUNTER & DRINK STATION PROVIDED BY PX, INSTALLED BY GC |

# INTERIOR PAINT SCHEDULE

INSTALLED AND FURNISHED BY. GC UNLESS NOTED OTHERWISE

| NO | MANUFACTURER | MFG # | COLOR | FINISH | REMARK |
|---|---|---|---|---|---|
| P9As | SHERWIN-WILLIAMS | SW 7065 | ARGOS | PROMAR 200, ZERO VOC, LATEX SEMI-GLOSS | REAR SERVICE DOOR |
| P9B | NOT USED | | | | |
| P101 | SHERWIN-WILLIAMS | SW 6252 | ICE CUBE | PROMAR 200, ZERO VOC, LATEX EGG-SHELL | RESTROOM & RESTROOM VESTIBULE CEILING, FRONT AND UNDERSIDE OF SERVICE LINE SOFFIT/BULKHEAD AND DINING RM. SOFFIT |
| P102 | NOT USED | | | | |
| P103 | NOT USED | | | | |
| P104 | SHERWIN-WILLIAMS | SW 2850 | CHELSEA GRAY | PROMAR 200, ZERO VOC, LATEX EGG-SHELL | DINING RM WALLS, RESTROOM VESTIBULE WALLS |
| P105 | NOT USED | | | | |
| P106 | SHERWIN-WILLIAMS | SW 7020 | BLACK FOX | DTM ACRYLIC GLOSS, LOW VOC | RESTROOM DOOR FRAMES & LCD NICHE (BACK WALL) |
| P205 | SHERWIN-WILLIAMS | SW 7675 | SEALSKIN | PROMAR 200, ZERO VOC, LATEX EGG-SHELL | FRONT & BACK & UNDERSIDE FACES OF MENU BOARD |

PANDA EXPRESS CHINESE KITCHEN


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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REVISIONS:

| | |
|---|---|
| 2 | 02.08.22 ISSUE FOR BID |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


Cuhaci & Peterson
Architects Engineers Planners
2600 Maitland Center Pkwy. Maitland, FL 32751
P (407) 661-9100
F (407) 661-9101
www.cpa.com
Florida Corporate Certificate #AA C000526


02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA16313
REGISTERED ARCHITECT

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

G-005

SCHEDULES

TRUE WARM & WELCOME 2300 R6

# CIVIL PLANS:

## D8518, STORE #3536
## 12857 GINKO LANE
## COVINGTON, GEORGIA 30014
## NEWTON COUNTY

PREPARED BY:

INGENIUM
Civil Engineering & Planning

PREPARED FOR:

PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
PHONE: 626.799.9898
FAX: 626.372.8288

## PROJECT CONTACTS

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MR. HARRY KITCHEN
ADDRESS
PHONE: (912) 313-5017
EMAIL:
HARRY@FOXFIELDCOMPANY.COM

**DEVELOPER**
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1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
PHONE: (626) 799-9898
FAX: (626) 372-8288

**CIVIL ENGINEER**
INGENIUM ENTERPRISES, INC.
221 ROSWELL STREET, SUITE 100
ALPHARETTA, GEORGIA 30009
PHONE: (770) 437-8850

**ARCHITECT**
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MAITLAND, FLORIDA 32751
PHONE: (407) 661-9100

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928 BLACKLAWN ROAD
CONYERS, GEORGIA 30094
PHONE: (770) 483-9745

**MEP**
CUHACI & PETERSON
2600 MAITLAND CENTER PARKWAY
SUITE 200
MAITLAND, FLORIDA 32751
PHONE: (407) 661-9100

**SITE LIGHTING**
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MR. RYAN ZINSELMEIER
2929 CHOTEAU AVENUE
ST. LOUIS, MISSOURI 63103
PHONE: (314) 633-0423
EMAIL:
RYANZINSELMEIER@VILLALIGHTING.COM

**MUNICIPAL SEWER AGENCY**
COVINGTON UTILITIES
MR. ROBERT BARBER
2194 EMORY STREET NW
COVINGTON, GEORGIA 30014
PHONE: (678) 414-1434
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RBARBER@CITYOFCOVINGTON.ORG

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EMAIL: EDWARD.MINGE@ATT.COM

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EMAIL: JACY@WAS-DESIGN.COM

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ATLAS SIGN INDUSTRIES
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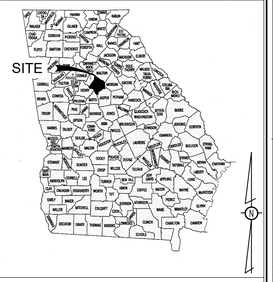
1077 WEST BLUE HERON BLVD
WEST PALM BEACH, FL 33404
PHONE: (561) 863-6659
EMAIL: KAREN.V@ATLASBTW.COM

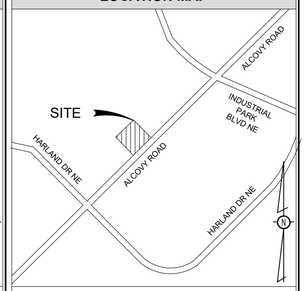
**FIRE**
COVINGTON FIRE DEPARTMENT
FIRE MARSHAL - JOE DOSS
2101 PACE STREET
COVINGTON, GEORGIA 30014
PHONE: (770) 385-2162
EMAIL:
JDOSS@CITYOFCOVINGTON.ORG

## REGIONAL MAP



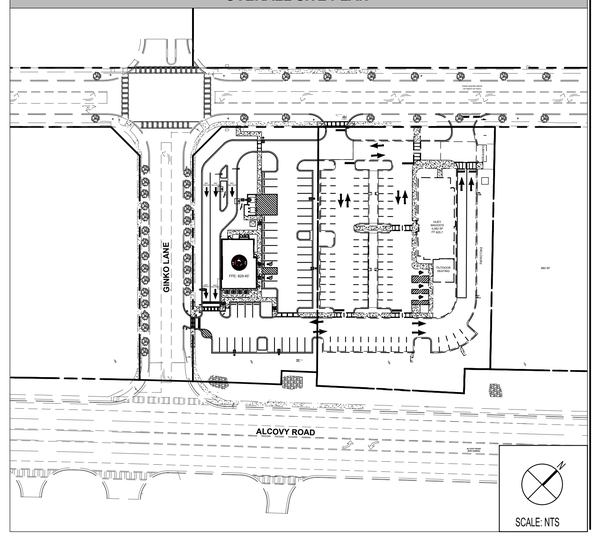

NEWTON, GEORGIA
NOT TO SCALE

## LOCATION MAP




COVINGTON, GEORGIA
NOT TO SCALE

## OVERALL SITE PLAN




## PANDA EXPRESS STANDARD NOTES

1. THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON DATED 06/14/2021 AND ANY SUBSEQUENT ADDENDUMS IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND FINDINGS WITH THE OWNER, ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTION. IMPLEMENTATION OF THE REPORT'S RECOMMENDATIONS MAY REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL WORK NOT SHOWN ON THE CIVIL PLANS INCLUDING BUT NOT LIMITED TO EXCAVATION, REMEDIATION, DEWATERING, COMPACTION ETC.
2. CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREAS WITHIN LIMITS OF WORK, INCLUDING POTENTIAL OFFSITE AREAS. COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.

**THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL LOCAL, STATE, AND FEDERAL CERTIFICATION AND LICENSING REQUIREMENTS FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: LAND DISTURBANCE PERMITS, BUILDING PERMITS, DEMOLITION PERMITS, NPDES PERMITS, DEWATERING PERMITS, ETC.**

**CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.**

**CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.**

**CONTRACTOR SHALL NOTIFY THE GSWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL WITHIN 24 HOURS UPON COMPLETE INSTALLATION OF INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS. THE GSWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL MUST INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.**

**24-HOUR CONTACT:**
**MR. JOE CELENTO**
**(912) 272-4811**

GEORGIA 811
Utilities Protection Center, Inc.
Know what's below. Call before you dig.

## SITE INFORMATION

JURISDICTION:
COVINGTON, GEORGIA
NEWTON COUNTY

ZONING:
CM-CORRIDOR MIX

REQUIRED BUILDING SETBACKS:
FRONT(S): 20'
SIDE(E): 0'
SIDE(W): 10'
REAR(N): 20'

REQUIRED PARKING SETBACKS:
FRONT(S): 20'
SIDE(E): 5'
SIDE(W): 10'
REAR(N): 10'

REQUIRED PARKING:
MINIMUM SPACE REQUIRED: NONE
MAXIMUM SPACES PERMITTED: 28 SPACES
CALCULATIONS: TEN (10) SPACES FOR EVERY 1,000 SF OF BUILDING AREA. ASSUMING 2,381 SF OF BUILDING AND 425 SF OF PATIO AREA IS PROVIDED, A MAXIMUM OF 28 SPACES IS PERMITTED.

PROPOSED PARKING :

| | |
|---|---|
| 9' X 18' (REGULAR) | = 43 |
| 8' X 18' (HC) | = 02 |
| TOTAL | = 45* |

* A LETTER HAS BEEN PROVIDED TO THE DEVELOPER FROM PANDA EXPRESS PROVIDING REASONS FOR NEEDING ADDITIONAL PARKING SPACES.

REQUIRED LANDSCAPE BUFFER:
FRONT: 20'
SIDE: 5'
REAR: 5'

DRIVE AISLE: 24'

SITE AREA CALCULATIONS:
SIDE: ±1.00 AC.
PERVIOUS AREA: ±0.32 AC.
IMPERVIOUS AREA: ±0.68 AC.
DISTURBED AREA: ±0.91 AC.

FLOOD HAZARD:
NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 13217C0127D, DATED 03/17/2014.

EXISTING INFORMATION:
PROVIDED BY PATRICK & ASSOCIATES, INC., DATED 07/06/2021. REFER TO SHEET C02.0 FOR SURVEY (BY OTHERS).

SITE LIGHTING:
PHOTOMETRICS DESIGNED BY OTHERS. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN, SHEETS SL01.0, AND OWNER PRIOR TO CONSTRUCTION.

WATER SOURCE:
WSID NUMBER: 21 70001
COVINGTON/NEWTON COUNTY WATER SYSTEM
CORNISH CROCK WTF
11905 ALCOVY RD
COVINGTON, GA 30014
PHONE: 770-784-2128

## SHEET INDEX

| NO. | TITLE | ISSUE 01 - SUBMIT TO DEVELOPER 07/20/2021 | ISSUE 02 - RESUBMIT TO DEVELOPER 09/21/2021 | ISSUE 03 - SUBMIT FOR PERMIT 09/24/2021 | ISSUE 04 - RESUBMIT FOR PERMIT 01/19/2022 | ISSUE 05 - ISSUE FOR BID 02/07/2022 | |
|---|---|---|---|---|---|---|---|
| C01.0 | COVER SHEET | ● | ● | ● | ● | ● | |
| C01.1 | GENERAL NOTES | ● | ● | ● | ● | ● | |
| C02.0 | ALTA/ACSM SURVEY | | ● | ● | ● | ● | |
| C02.1 | DEMOLITION PLAN | ● | ● | ● | ● | ● | |
| C03.0 | SITE PLAN | ● | ● | ● | ● | ● | |
| C03.1 | STAKING PLAN | ● | ● | ● | ● | ● | |
| C03.2 | HARDSCAPE DETAILS I | ● | | ● | ● | ● | |
| C03.3 | HARDSCAPE DETAILS II | ● | | ● | ● | ● | |
| C03.4 | HARDSCAPE DETAILS III | | | ● | ● | ● | |
| C03.5 | HARDSCAPE DETAILS IV | | | | ● | ● | |
| C04.0 | UTILITY PLAN | ● | ● | ● | ● | ● | |
| C04.1 | UTILITY DETAILS I | ● | ● | ● | ● | ● | |
| C04.2 | UTILITY DETAILS II | | | ● | ● | ● | |
| C04.3 | UTILITY DETAILS III | | | ● | ● | ● | |
| C04.4 | UTILITY DETAILS IV | | | ● | ● | ● | |
| C04.5 | PIPE PROFILES I | ● | | ● | ● | ● | |
| C04.6 | PIPE PROFILES II | | | ● | ● | ● | |
| C05.0 | GRADING & DRAINAGE PHASE | ● | ● | ● | ● | ● | |
| C05.1 | BUILDING DRAINAGE DETAIL PLAN | ● | | ● | ● | ● | |
| C06.0 | SWPP PLAN | | | ● | ● | ● | |
| C06.1 | ESPC PLAN- CLEARING PHASE | ● | ● | ● | ● | ● | |
| C06.2 | ESPC PLAN- GRADING PHASE | ● | ● | ● | ● | ● | |
| C06.3 | ESPC PLAN- FINAL PHASE | ● | ● | ● | ● | ● | |
| C06.4 | ESPC DETAILS I | | | ● | ● | ● | |
| C06.5 | ESPC DETAILS II | | | ● | ● | ● | |
| C06.6 | ESPC DETAILS III | | | ● | ● | ● | |
| C06.7 | ESPC DETAILS IV | | | ● | ● | ● | |
| C06.8 | ESPC DETAILS V | | | ● | ● | ● | |
| C06.9 | ESPC DETAILS VI | | | ● | ● | ● | |
| C06.10 | ESPC DETAILS VII | | | ● | ● | ● | |
| C06.11 | ESPC DETAILS VIII | | | ● | ● | ● | |
| LP200 | LANDSCAPE PLAN | ● | | ● | ● | ● | |
| LP500 | LANDSCAPE DETAILS | ● | | ● | ● | ● | |
| SL1.0 | PHOTOMETRIC PLAN | | | ● | ● | ● | |

PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

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REVISIONS:

ISSUE DATE:

| | |
|---|---|
| PRELIMINARY | 01/19/2022 |
| BID | 02/07/2022 |
| CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

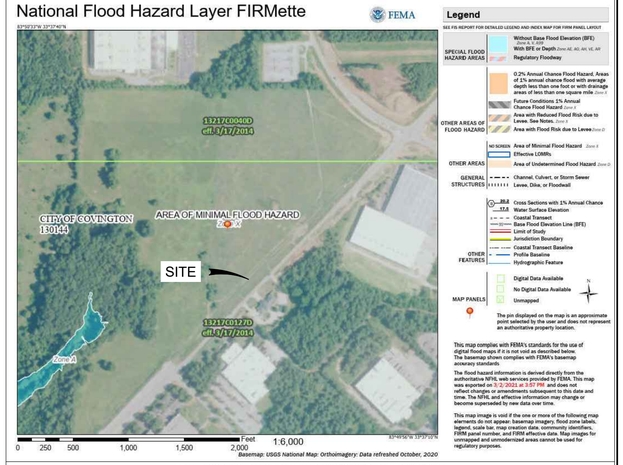
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE26748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

COVER SHEET
C01.0

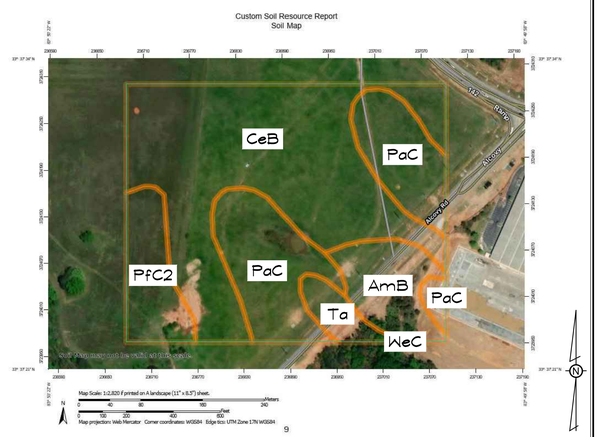
TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

## FLOOD INSURANCE RATE MAP FIRMETTE




FEMA FLOOD INSURANCE RATE MAP 13217C0127D, DATED 03/17/2014
NOT TO SCALE

## SOILS MAP




NOT TO SCALE

## ABBREVIATIONS

| | | |
|---|---|---|
| ASPH | = | ASPHALT |
| BC | = | BOTTOM OF CURB |
| BFP | = | BACKFLOW PREVENTER |
| BW | = | BOTTOM OF WALL |
| C&G | = | CURB AND GUTTER |
| C.B. | = | CHORD BEARING |
| CB | = | CATCH BASIN |
| CF | = | CUBIC FEET |
| ℄ | = | CENTERLINE |
| CMP | = | CORRUGATED METAL PIPE |
| Co | = | GENERAL CLEAN OUT |
| CONC. | = | CONCRETE |
| CW | = | COLD WATER SUPPLY |
| CY | = | CUBIC YARD |
| D.O.T. | = | DEPARTMENT OF TRANSPORTATION |
| DI | = | DROP INLET |
| DS | = | DOWN SPOUT |
| DIP | = | DUCTILE IRON PIPE |
| E | = | EAST |
| EL. | = | ELEVATION |
| EGL | = | ENERGY GRADE LINE |
| EXIST. | = | EXISTING |
| FDC | = | FIRE DEPARTMENT CONNECTION |
| FES | = | FLARED END SECTION |
| FFE | = | FINISH FLOOR ELEVATION |
| FH | = | FIRE HYDRANT |
| GC | = | GENERAL CONTRACTOR |
| GSF | = | GROSS SQUARE FEET |
| GT | = | GREASE TRAP |
| GV | = | GATE VALVE |
| HDPE | = | HIGH DENSITY POLYETHYLENE |
| HGL | = | HYDRAULIC GRADE LINE |
| HW | = | HOT WATER SUPPLY |
| I | = | INTERNAL ANGLE |
| INV. | = | INVERT |
| IRR | = | IRRIGATION |
| L | = | LENGTH OF CURVE |
| LC. | = | LENGTH OF CHORD |
| LFFE | = | LOWER FINISH FLOOR ELEVATION |
| LP | = | LIGHT POLE/FIXTURE |
| LS | = | LANDSCAPE |
| MH | = | MANHOLE |
| N | = | NORTH |
| PC | = | POINT OF CURVATURE |
| PI | = | POINT OF INTERSECTION |
| PIV | = | POST INDICATOR VALVE |
| PROP | = | PROPOSED |
| PT | = | POINT OF TANGENCY |
| PVC | = | POLYVINYL CHLORIDE PIPE |
| R | = | RADIUS OF CURVE |
| RCP | = | REINFORCED CONCRETE PIPE |
| RD | = | ROOF DRAIN |
| R/W | = | RIGHT-OF-WAY |
| S | = | SOUTH |
| SF | = | SQUARE FEET |
| SSE | = | SANITARY SEWER EASEMENT |
| STD | = | STANDARD |
| SY | = | SQUARE YARD |
| T | = | TANGENT OF CURVE LENGTH |
| TC | = | TOP OF CURB |
| TB | = | THRUST BLOCKING |
| TW | = | TOP OF WALL |
| TYP. | = | TYPICAL |
| W | = | WEST |
| WM | = | WATER METER |
| W.S. | = | WATER SURFACE |
| W.S.E. | = | WATER SURFACE ELEVATION |
| YR | = | YEAR |

SEE SURVEY/EXISTING CONDITIONS FOR ABBREVIATIONS SPECIFIC TO THAT SHEET

## DEFINITIONS

"ISSUED FOR PERMITTING"
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR PRICING, BID, OR CONSTRUCTION.

"NOT ISSUED FOR CONSTRUCTION"
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION.

"ISSUED FOR CONSTRUCTION"
DRAWINGS ARE INTENDED FOR PRICING, BID, AND/OR CONSTRUCTION.

"RIM"
1. THROAT OR GRATE ELEVATION FOR CURB INLETS.
2. TOP OF STRUCTURE FOR JUNCTION BOXES/OCS.
3. TOP OF STRUCTURE FOR SANITARY MANHOLES AND CLEANOUTS.

## EXISTING CONDITIONS LEGEND

| DESCRIPTION | LINETYPE/SYMBOL |
|---|---|
| IRRIGATION CONTROL VALVE | ICV |
| IRON PIN FOUND | IPF |
| IRON PIN SET (1/2" RB) | IPS |
| OPEN TOP PIPE | OT |
| CRIMP TOP PIPE | CT |
| CONCRETE MONUMENT FOUND | CMF |
| NAIL AND CAP | N & C |
| REBAR | RB |
| POWER POLE | PP |
| TELEPHONE POLE | TP |
| LAND LOT | LL |
| LAND LOT LINE | LLL |
| POINT OF BEGINNING | POB |
| BUILDING LINE | BL |
| CENTER LINE | CL |
| PROPERTY LINE | PL |
| FIRE HYDRANT | FH |
| CATCH BASIN | CB |
| DROP INLET | DI |
| HEADWALL | HW |
| JUNCTION BOX | JB |
| DRAINAGE EASEMENT | DE |
| WATER METER | WM |
| WATER VALVE | WV |
| GAS VALVE | GV |
| MANHOLE | MH |
| RIGHT-OF-WAY MONUMENT FOUND | ☒ |
| GAS LINE | GAS |
| WATER LINE | WAT |
| SANITARY SEWER LINE | SAN |
| STORM DRAINAGE PIPE | |
| OVERHEAD ELECTRIC LINE | OH ELE |
| OVERHEAD ELECTRIC/TELEPHONE/TV LINE | OH E/T/TV |
| OVERHEAD ELECTRIC/TELEPHONE LINE | OH E/T |

## GENERAL NOTES

1. INGENIUM ENTERPRISES, INC. (IE) REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF IE. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF IE.
2. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER, HIS REPRESENTATIVE, OR THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
3. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE, AND ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED. THIS INCLUDES ALL STRIPING AND SIGNAGE.
4. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS REQUIREMENTS AND SAFETY MEETING REQUIREMENTS.
5. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

## PROPOSED LEGEND

| GENERAL | LINETYPE/SYMBOL | REFERENCE |
|---|---|---|
| RIGHT-OF-WAY/PROPERTY LINE | | SEE PLANS |
| CENTERLINE | | SEE PLANS |
| LIMITS OF CONSTRUCTION | L | SEE PLANS |
| DETAIL REFERENCE | | SEE PLANS |
| ADDENDUM AND/OR REVISION REFERENCE | | SEE PLANS |

| SITE/HARDSCAPE | LINETYPE/SYMBOL | REFERENCE |
|---|---|---|
| CHAIN LINK FENCE | | NOT APPLICABLE |
| RETAINING WALL | | NOT APPLICABLE |
| SCREEN WALL/DUMPSTER ENCLOSURE | | SEE PLANS |
| CURB & GUTTER | | DETAIL 3, SHEET C03.3 |
| HEADER CURB | | NOT APPLICABLE |
| CONCRETE SIDEWALK | | DETAIL 6, SHEET C03.3 |

| UTILITY | LINETYPE/SYMBOL | REFERENCE |
|---|---|---|
| DOMESTIC WATER LINE | DW DW | 1.5" PVC |
| FIRE WATER LINE | FW FW | NOT APPLICABLE |
| BUILDING FIRE SPRINKLER LINE | FWS FWS | NOT APPLICABLE |
| IRRIGATION WATER LINE | IRR IRR | 1" PVC |
| DOMESTIC WATER METER (WM) | WM | 1.5" METER |
| IRRIGATION METER (IRR) | IRR | 1" METER |
| BACKFLOW PREVENTER (RPZ) | RPZ | SEE PLANS |
| FIRE VAULT (DDC) | DDC | NOT APPLICABLE |
| DC BACKFLOW PREVENTER | | SEE PLANS |
| WATER TAP OR TEE | | SEE PLANS |
| GATE VALVE (GV) | GV | DETAIL 4, SHEET C04.1 |
| THRUST BLOCK (TB) | TB | NOT APPLICABLE |
| FIRE HYDRANT (FH) | FH | NOT APPLICABLE |
| FIRE DEPARTMENT CONNECTION (FDC) | FDC | NOT APPLICABLE |
| SANITARY SEWER (SS) | SS SS | SEE PLANS |
| SANITARY MANHOLE (SSMH) | | DETAIL 1, SHEET C04.3 |
| GENERAL CLEAN OUT (Co) | Co | DETAIL 4, SHEET C04.2 |
| SAMPLING MANHOLE | | NOT APPLICABLE |
| SANITARY STRUCTURE NUMBER | S2 | SEE PLANS |
| UNDERGROUND ELECTRIC LINE-PRIMARY | UGE-P UGE-P | (2) 4" PVC |
| UNDERGROUND ELECTRIC LINE-SECONDARY | UGE-S UGE-S | (2) 4" PVC |
| POST INDICATOR VALVE | PIV | NOT APPLICABLE |
| SITE LIGHTING POLE | | SEE PLANS |
| TRANSFORMER PAD | T | DETAIL 7, SHEET C03.3 |
| METER/CT PEDESTAL | CT | *** |
| UNDERGROUND TELEPHONE LINE | UGT UGT | 2" PVC |
| GENERAL UTILITY CONDUIT | GU GU | (2) 4" PVC |
| GAS LINE | G | *** |
| GAS METERS | G | *** |

*** ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS. ***

| GRADING/DRAINAGE | LINETYPE/SYMBOL | REFERENCE |
|---|---|---|
| GRADE | 1000 | SEE PLANS |
| SPOT ELEVATION | 1000.00 | SEE PLANS |
| STORM DRAIN | | SEE PLANS |
| STORM STRUCTURE NUMBER | A3 | SEE PLANS |

| ESPC BMP | LINETYPE/SYMBOL | REFERENCE |
|---|---|---|
| Co CONSTRUCTION EXIT | | SHEET C06.5 |
| Sd1-TYPE C SILT FENCE - TYPE C | | SHEET C06.9 |
| Sd1-TYPE C SILT FENCE - TYPE C DOUBLE | | SHEET C06.9 |
| Sd2-F INLET SEDIMENT TRAP-FILTER | | SHEET C06.10 |
| Sd2-P INLET SEDIMENT TRAP-CURB | | SHEET C06.10 |
| Du DUST CONTROL-DISTURBED AREAS | Du | SHEET C06.5 |
| Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) | Ds1 | SHEET C06.5 |
| Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) | Ds2 | SHEET C06.6 |
| Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) | Ds3 | SHEET C06.7 & C06.8 |
| Ds4 DISTURBED AREA STABILIZATION (WITH SODDING) | Ds4 | NOT APPLICABLE |
| ST STORM OUTLET PROTECTION | ST | SHEET C06.11 |
| Tr TREE PROTECTION | TPF | NOT APPLICABLE |

**SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS**


**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288



All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.


REVISIONS:

ISSUE DATE:

| | | |
|---|---|---|
| | PRELIMINARY | 01/19/2022 |
| | BID | 02/07/2022 |
| | CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETTIT
2/7/22

GENERAL NOTES
C01.1

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

## Area

Total LAND area of subject property is 1.00 Acre

## Statement of Encroachments

No encroachment.

## Zoning Information

No zoning information provided to surveyor.

## Utility Notes

The existence and location of the surface and sub-surface utilities shown are based upon available records and surface visible evidence as of July 2, 2021. The extent and liability of this information is limited to Standards for a Quality Level C Utility Investigation as defined by the American Society of Civil Engineers (ASCE_ Publication 38-02).

Before digging in this area, call utility locators at 1-800-282-7411 for field locations (request for ground markings) of underground utility lines.

## SURVEY NOTES

The field data upon which this plat is based has a closure precision of one foot in 61,310 feet, an angular error of 03 seconds per angle point, and was adjusted using compass rule.

This plat has been calculated for closure and found to be accurate within one foot in feet.

0 parking spaces and 0 handicap space.

The property has direct access to Town Center Drive and Ginko Lane which is an accepted public street or highway.

There is no evidence of earth moving work.

There is no evidence of currently ongoing building construction and building additions.

There is no evidence of any changes in street right of way.

There is no evidence of cemeteries or burial grounds.

There is no evidence of the site being used as a solid waste dump, storage of hazardous waste, a sump, or sanitary landfill.

There are no party walls with adjoining property owners.

No wetlands as shown on Plat recorded in Plat Book 54, Page 36.

Patrick & Associates, Inc. has a Professional Liability Insurance policy in the amounty of $1,000,000.

FLOOD NOTE:
By graphic plotting only, this property is in zone "A" Flood Insurance Rate Map No.13217C0127D & 13217C0040D which bears an effective date March 17, 2014. No field surveying was performed to determine this zone.

UTILITY NOTE: PATRICK & ASSOCIATES, INC. NOR THE LICENSED PROFESSIONAL ASSUME ANY LIABILITY FOR THE EXISTENCE, LOCATION, MATERIAL OR SIZE OF ANY UNDERGROUND UTILITY SHOWN ON THIS SURVEY. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO VERIFY THE EXISTENCE, EXACT LOCATION, MATERIAL AND SIZE OF ANY UNDERGROUND UTILITY ASSOCIATED WITH THE PROJECT.

Note: This plat was prepared for the exclusive use of the person, persons or entity named hereon. This plat does not extend to any person, persons or entity without the express recertification of the surveyor naming such person, persons or entity.

TEXT LEGEND

| | |
|---|---|
| IPF | IRON PIN FOUND |
| IPS | IRON PIN SET |
| RB | REBAR |
| OTP | OPEN TOP PIPE |
| CMF | CONCRETE MOMUMENT FOUND |
| CMP | CORRUGATED METAL PIPE |
| CONC | CONCRETE |
| DIA | DIAMETER |
| GAS V | GAS VALVE |
| R/W MON | RIGHT-OF-WAY MONUMENT |
| SWCB | SINGLE WING CATCH BASIN |
| DWCB | DOUBLE WING CATCH BASIN |
| FH | FIRE HYDRANT |
| V | VALVE |
| FH&V | FIRE HYDRANT AND VALVE |
| WV | WATER VALVE |
| WM | WATER METER |
| MH | MANHOLE |
| PP | POWER POLE |
| P.O.B. | POINT OF BEGINNING |
| TRAF. BOX | TRAFFIC SIGNAL BOX |
| TYP | TYPICAL |
| LP | LIGHT POLE |
| PIV | POST INDICATOR VALVE |

## Field Measured Legal Description

TRACT 7A-1
ALL THAT TRACT or parcel of land lying and being in Land Lot 285 of the 9th District, City of Covington, Newton County,Georgia and being more particularly described as follows:

Begin at the intersection on the west right-of-way of Alcovy Road (R/W Varies) and the north right of way of Ginko Lane (63' R/W), said point being THE TRUE POINT OF BEGINNING.

THENCE leaving said right of way continue along the north right of way of Ginko Lane (63' R/W) North 44°40'35" West a distance of 267.02 feet to a point on the miter intersection at Town Center Drive (70' R/W); THENCE continue along miter right of way North 0°19'26" East a distance of 48.08 feet to a point on the south right of way of Town Center Drive (70' R/W); THENCE North 45°19'25" East a distance of 114.37 feet to a point; THENCE leaving said right of way South 44°23'57" East a distance of 290.33 feet to a point on the west right-of-way of Alcovy Road (R/W Varies); THENCE along Alcovy Road (R/W Varies)South 47°40'43" West a distance of 41.97 feet to a point; THENCE South 42°21'04" East a distance of 16.05 feet to a point; THENCE along a curve to the left having a radius of 11,713.48 feet and an arc length of 104.45 feet, being subtended by a chord of South 47°18'43" West for a distance of 104.45 feet to THE TRUE POINT OF BEGINNING.

Said Tract contains 1.00 Acres/ 43,560 square feet.

## ALTA/NSPS Land Title Survey

**Surveyor's Certification**:

To: **and**
**First American Title Insurance Company**

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS and includes Items 1, 2, 3, 4, 5, 6(a), 7(a), 8, 9, 11, 13, 14, 16, 17, 18, 19 and 20 of Table A thereof.

The field work was completed on July 2, 2021.

Date of Plat or Map: July 6, 2021.

GEORGIA REGISTERED NO. 2856 LAND SURVEYOR JAMES S. HULL JR.

James S. Hull, Jr
Registration/License No. 2856

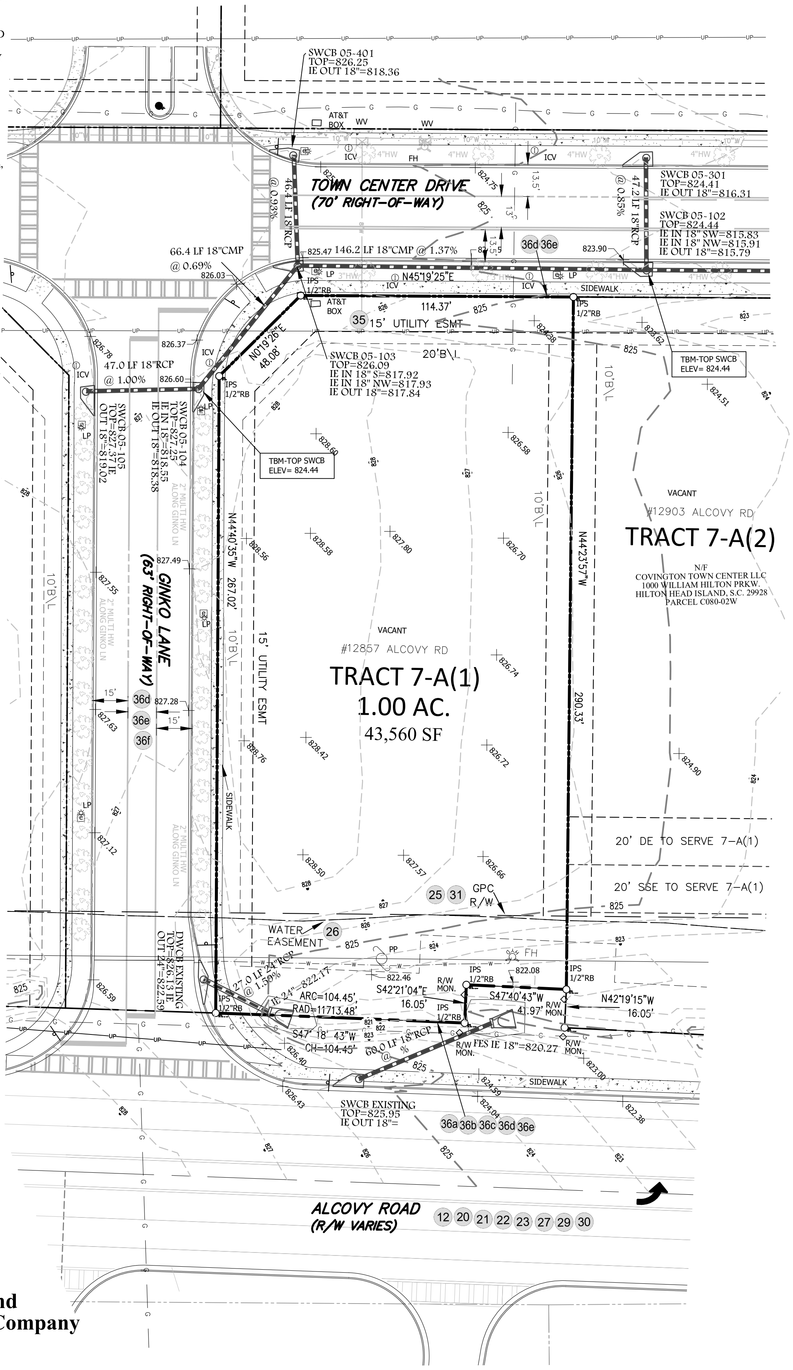
## Record Legal Description

All that tract or parcel of land lying and being in Land Lot 285 of the 9th District, City of Covington, Newton County, Georgia, and being Tract 7A-1 containing 1.00 acres as more particularly depicted and described on that certain Final Plat for Covington Town Center LLC prepared by Patrick and Associates, Inc., dated February 22, 2021, certified by James S. Hull, Jr., GRLS No. 2856, recorded at Plat Book 54, Page 36, Newton County, Georgia Records, which Final Plat is incorporated herein by reference thereto.

TOWN CENTER OVERLAY
COMMUNITY AND SITE DEVELOPMENT STANDARDS
*FLOOR AREA RATIO - ALL USES (FAR) = 1.0
*BUILDING COVERAGE (MAXIMUM %)= 80%
*OPEN SPACE MINIMUM=20%
*IMPERVIOUS SURFACE (MAXIMUM % OF LOT AREA ON ANY INDIVIDUAL DEVELOPMEN)=90%
*LOT SIZE/LOT WIDTH (MINIMUM)= N/A
*FRONT YARD SETBACK (MINIMUM)= 20'
*REAR YARD SETBACK (MINIMUM)= 20'
*SIDE YARD SETBACK (MINIMUM) = 10' OR 0' FOR MIXED USE OR NON-RESIDENTIAL
*HEIGHT (MAXIMUM)= 75'
*UTILITY EASEMENT ALONG ALL ROAD RIGHT OF WAY AND PROPERTY LINES AS SHOWN.
*10' UTILITY EASEMENT FOR TRACT 10

*PROPERTY ZONED: CORRIDOR MIXED USE-COVINGTON TOWN CENTER OVERLAY.
*SIDE YARD SETBACK = 10' or 0'
*REAR YARD SETBACK = 20 FEET MINIMUM
*FRONT YARD SETBACK = 20 FEET MINIMUM
*SUBJECT PROPERTY IS WITHIN THE AIRPORT HAZARD OVERLAY ZONING DISTRICT. SEE SECTION 16.24.020 OF THE COVINGTON MUNICIPAL CODE OF ORDINANCES FOR MORE INFORMATION.

NOTE:
UNDERGROUND UTILITIES SHOWN ON THIS SURVEY WERE PROVIDED BY THE CITY OF COVINGTON AS-BUILT DRAWING FILE.




ALTA/NSPS SURVEY FOR:

**INGENIUM Enterprises, Inc.**
**Panda Restaurant Group, Inc. and**
**First American Title Insurance Company**

LAND LOTS 285 - 9TH DISTRICT
CITY OF COVINGTON

NEWTON COUNTY, GEORGIA

DATE OF FIELD WORK: 7-2-2021
DATE OF PLAT PREPARATION: 7-7-2021
EQUIPMENT USED: TRIMBLE S6

30 0 30 60 90
GRAPHIC SCALE -1 INCH = 30 FEET

OWNER:
TAX PARCEL C080 002E
COVINGTON TOWN CENTER LLC
1000 WILLIAM HILTON PRKW.
HILTON HEAD ISLAND, S.C. 29928
AREA: 1.00 ACRES


PATRICK & ASSOCIATES, INC.
SURVEYING & ENGINEERING
928 BLACKLAWN ROAD
CONYERS, GEORGIA 30094
PHONE: 770-483-9745


## Items Corresponding to Schedule B

Notes Corresponding to Special Exceptions Schedule B - Section II
First American Title Insurance Company
Commitment Number: OSH1176.019
Issuing Office Order Number: OSH1176.019
Effective Date: 02/22/2021 12:00 a.m.

12. Easements as contained in that certain Right-of-Way Deed from Covington Mills Incorporated , et al to Newton County, a political subdivision of the State of Georgia, dated October 1, 1957, filed December 4, 1957 and recorded in Deed Book 49, Page 183, records of the Superior Court of Newton County, Georgia. AS SHOWN ON SURVEY

13. Easements as contained in that certain Right of Way Deed from Charles H. Starling and Arnold K. Bohren to Newton County, Georgia, dated January 13, 1964, filed February 10, 1964 and recorded in Deed Book 65, Page 285, aforesaid records. UNABLE TO DETERMINE LOCATION TO PLOT ON SURVEY.

14. Easements as contained in that certain Right of Way Deed from B. H. Guinn to Newton County, Georgia, dated January 7, 1964, filed February 10, 1964 and recorded in Deed Book 65, Page 287, aforesaid records. UNABLE TO DETERMINE LOCATION TO PLOT ON SURVEY.

15. Slope Easement from Arnold K. Bohren to the State Highway Department of Georgia, dated March 31, 1965, filed April 14, 1965 and recorded in Deed Book 72, Page 193, aforesaid records. UNABLE TO DETERMINE LOCATION TO PLOT ON SURVEY.

16. Permit for Anchors, Guy Poles and Wires from B. H. Guinn and Carra G. Guinn to Georgia Power Company, a corporation, dated March 16, 1967, filed May 27, 1967 and recorded in Deed Book 81, Page 280, aforesaid records. UNABLE TO DETERMINE LOCATION TO PLOT ON SURVEY.

17. Permit for Anchors, Guy Poles and Wires from Arnold K. Bohren and Charles H. Starling to Georgia Power Company, a corporation, dated June 5, 1967, filed June 20, 1967 and recorded in Deed Book 81, Page 513, aforesaid records. UNABLE TO DETERMINE LOCATION TO PLOT ON SURVEY.

18. Easement from John R. Williams and R. G. Williams to Georgia Power Company, dated October 23, 1975, filed January 9, 1976 and recorded in Deed Book 148, Page 707, aforesaid records. UNABLE TO DETERMINE LOCATION TO PLOT ON SURVEY.

19. Right of Way Easement from John R. Williams and Esther B. Williams, Executrix under the Will of Robert J. Williams, deceased, to Snapping Shoals Electric Membership Corporation, a corporation, dated April 1, 1985, filed April 25, 1985 and recorded in Deed Book 244, Page 81, aforesaid records. UNABLE TO DETERMINE LOCATION TO PLOT ON SURVEY, EXHIBIT "A" NOT PROVIDED.

20. Relinquishment of access rights (except where designated by the Department of Transportation) and easements as contained in that certain Right of Way Deed from John R. Williams, et al to the Department of Transportation, dated March 10, 1992, filed March 10, 1992 and recorded in Deed Book 421, Page 417, aforesaid records. AS SHOWN ON SURVEY

21. Relinquishment of access rights (except where designated by the Department of Transportation) and easements as contained in that certain Right of Way Deed from Williams 2003 Investments, L.L.C., a Georgia limited liability company, et al to the Department of Transportation, dated June 6, 2006, filed June 19, 2006 and recorded in Deed Book 2213, Page 213, aforesaid records. AS SHOWN ON SURVEY

22. Relinquishment of access rights (except where designated by the Department of Transportation) and easements as contained in that certain Right of Way Deed from Rutherford Group, Inc., a Georgia corporation to the Department of Transportation, dated August 11, 2006, filed September 5, 2006 and recorded in Deed Book 2269, Page 73, aforesaid records. AS SHOWN ON SURVEY.

23. Relinquishment of access rights (except where designated by the Department of Transportation) and easements as contained in that certain Right of Way Deed from Rutherford Group, Inc., a Georgia corporation to the Department of Transportation, dated August 11, 2006, filed September 5, 2006 and recorded in Deed Book 2269, Page 82, aforesaid records. AS SHOWN ON SURVEY.

24. Easement from Rutherford Group, Inc. to Georgia Power Company, dated June 1, 2007, filed August 10, 2007 and recorded in Deed Book 2486, Page 598, aforesaid records. DOES NOT AFFECT PROPERTY.

25. Easement from Williams 2003 Investments, LLC, a Georgia limited liability company, et al to Georgia Power Company, a Georgia corporation, dated May 15, 2007, filed August 10, 2007 and recorded in Deed Book 2486, Page 603, aforesaid records. AS SHOWN ON PROPERTY.

26. Water Main Easement from Williams 2003 Investments, L.L.C. to The City of Covington, a Georgia municipal corporation, dated August 21, 2007, filed April 1, 2008 and recorded in Deed Book 2587, Page 43, aforesaid records. AS SHOWN ON SURVEY

27. Relinquishment of access rights (except where designated by the Department of Transportation) and easements as contained in that certain Right of Way Deed from Southpoint Land Company, LLC, a Georgia limited liability company to the Department of Transportation, dated June 26, 2012, filed July 5, 2012 and recorded in Deed Book 3021, Page 253, aforesaid records. AS SHOWN ON SURVEY

28. Construction and Maintenance Easement from Southpoint Land Company, LLC, a Georgia limited liability company to the Department of Transportation, dated June 26, 2012, filed July 5, 2012 and recorded in Deed Book 3021, Page 262, aforesaid records. DOES NOT AFFECT PROPERTY

29. Easements as contained in that certain Right of Way Deed from the City of Covington, a Georgia municipal corporation to the Department of Transportation, dated August 12, 2013, filed August 22, 2013 and recorded in Deed Book 3162, Page 78, aforesaid records. AS SHOWN ON SURVEY.

30. Construction Easements from the City of Covington, a Georgia municipal corporation to the Department of Transportation, dated August 12, 2013, filed August 22, 2013 and recorded in Deed Book 3162, Page 83, aforesaid records. AS SHOWN ON SURVEY

31. Easement from Southpoint Land Company, LLC, et al to Georgia Power Company, dated December 13, 2016, filed February 8, 2017 and recorded in Deed Book 3532, Page 115, aforesaid records. AS SHOWN ON SURVEY

32. Stormwater Facility Maintenance Covenant by Covington Town Center, LLC, dated October 3, 2017, filed December 13, 2017 and recorded in Deed Book 3642, Page 569, aforesaid records. AFFECTS PROPERTY, UNABLE TO PLOT ON SURVEY.

33. Covington Town Center Overlay Zoning District by Covington Town Center, LLC, a Georgia limited liability company, filed February 6, 2018 and recorded in Deed Book 3662, Page 195, aforesaid record; as amended by Amended and Restated Additional Architectural Design Standards and Materials by Covington Town Center, LLC, a Georgia limited liability company, dated as of December 11, 2018, filed February 1, 2019 and recorded in Deed Book 3798, Page 548, aforesaid records. AFFECTS PROPERTY, UNABLE TO PLOT ON SURVEY.

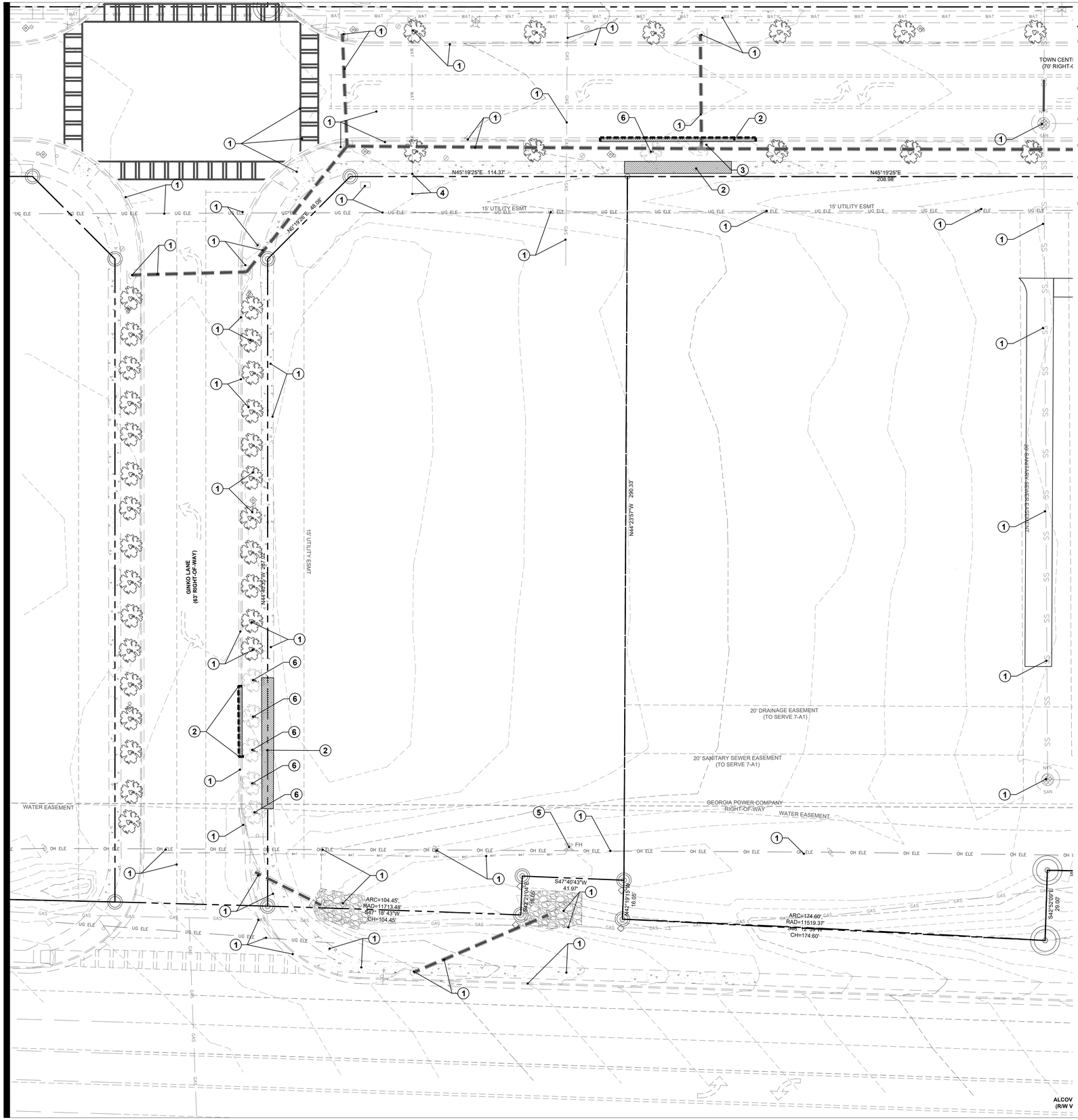
34. Master Declaration of Easements, Covenants and Restrictions by Covington Town Center, LLC, a Georgia limited liability company, dated as of January 30, 2019, filed February 1, 2019 and recorded in Deed Book 3798, Page 506, aforesaid records; as may be further amended and/or supplemented. AFFECTS PROPERTY, UNABLE TO PLOT ON SURVEY.

35. Utility Easement by and between Covington Town Center LLC and the City of Covington, Georgia, a Georgia municipality, dated as of June 22, 2019, filed July 16, 2019 and recorded in Deed Book 3866, Page 192, aforesaid records. AS SHOWN ON SURVEY

36. All matters affecting subject property as shown on the following plats, all aforesaid records:

(A)Plat Book 51, Page 224; AS SHOWN ON SURVEY
(B)Plat Book 52, Page 63; AS SHOWN ON SURVEY
(C)Plat Book 52, Page 96; AS SHOWN ON SURVEY
(D)Plat Book 52, Page 146; AS SHOWN ON SURVEY
(E)Plat Book 52, Page 272; AS SHOWN ON SURVEY and
(F)Plat Book 53, Page 143; AS SHOWN ON SURVEY

JOB NO. 21-599
MASTER 18-852 MASTER DWG 30197 DWG. NO. 34578




## DEMOLITION LEGEND

1. PROTECT ALL ITEMS DURING ALL PHASES OF CONSTRUCTION (SEE GENERAL DEMOLITION NOTE #1). THE CONTRACTOR SHALL ENSURE THE INTEGRITY OF ALL ITEMS DENOTED TO BE PROTECTED THAT ARE ADJACENT TO ITEMS DENOTED TO BE DEMOLISHED AND WILL SAFELY REPAIR ANY SUCH ITEMS TO THE REQUIRED JURISDICTIONAL STANDARDS.
2. SAWCUT AND REMOVE ANY EXISTING CONCRETE, SIDEWALK, CURB & GUTTER, AND ALL ASSOCIATED APPURTENANCES INCLUDING, BUT NOT LIMITED TO, REINFORCEMENT, AND STONE BASE.
3. CONTRACTOR SHALL REMOVE DOUBLE WING CURB INLET AND REPLACE IT WITH A GRATE INLET. SEE UTILITY PLAN ON SHEET CO4.0 FOR DETAILS.
4. CONTRACTOR SHALL REMOVE A SECTION OF THE WATER LINE IN ORDER TO MAKE THE PROPOSED WATER METER CONNECTIONS. SEE UTILITY PLAN ON SHEET CO4.1 FOR DETAILS.
5. CONTRACTOR SHALL BRING EXISTING FIRE HYDRANT UP TO MEET PROPOSED GRADE. SEE GRADING PLAN ON SHEET C05.0 FOR DETAILS.
6. CONTRACTOR SHALL REMOVE EXISTING LANDSCAPING AS NOTED, ITEMS INCLUDE, BUT NOT LIMITED TO, ANY SHRUBS OR TREES, TRUNK, STUMP, BASE, AND ROOT STRUCTURE.

## GENERAL DEMOLITION NOTES

1. ALL ITEMS TO BE PROTECTED SHALL BE PROTECTED THROUGH ALL THE PHASES OF CONSTRUCTION UNTIL FINAL ACCEPTANCE BY CITY OF COVINGTON/NEWTON COUNTY IS RECEIVED.
2. CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS WITH ALL DEMOLITION ACTIVITIES. IF ADDITIONAL REQUIREMENTS ARE REQUIRED FOR HAZARDOUS WASTE REMOVAL INCLUDING BUT NOT LIMITED TO ASBESTOS, SEPTIC FIELDS, LEAD, PCB, TCP, OR OTHER WASTE OR CONTAMINANT, IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH MANDATES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. CONTRACTORS SHALL COORDINATE WITH ALL UTILITY COMPANIES CONCERNING THE ABANDONMENT, RELOCATION AND/OR DEMOLITION OF UTILITIES PRIOR TO CONSTRUCTION. NO WORK IS TO BE PERFORMED ON LIVE LINES UNLESS APPROVED IN WRITING BY THE UTILITY IN ALL CASES. A REPRESENTATIVE FROM THE UTILITY SHALL BE PRESENT FOR INITIAL ABANDONMENT AND/OR LIVE CUTS. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR UTILITIES AND SHALL PROTECT THEM AT ALL TIMES.
4. CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT OF ALL NECESSARY PERMITS.
5. DEMOLITION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO REMOVE AND PROPERLY DISPOSE OF ANY ITEM NECESSARY TO PERFORM THE REQUIRED DEMOLITION AS INDICATED ON THE PLANS.
6. RELOCATION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO REMOVE, RELOCATE, AND INSTALL NEW ITEMS AS INDICATED ON THE PLANS.
7. ABANDONMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO ADEQUATELY ABANDON ITEMS AS INDICATED ON THE PLANS.
8. THE CONTRACTOR SHALL COORDINATE ALL TREE AND LANDSCAPE REMOVAL WITH THE LANDSCAPE PLANS. ANY DISCREPANCY BETWEEN THIS DEMOLITION PLAN AND THE LANDSCAPE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY.
9. THE CONTRACTOR IS FULLY AND COMPLETELY RESPONSIBLE FOR LOCATION, VERIFICATION, PROTECTION, STORAGE, MAINTENANCE, DEMOLITION, REMOVAL, RELOCATION OR ALTERATION OF ALL EXISTING SITE UTILITIES, SITE IMPROVEMENTS, STRUCTURES, OR CONSTRUCTION ELEMENTS AS REQUIRED TO COMPLETE THE WORK THAT ARE SHOWN ON THE PLANS AND OR THAT ARE OBSERVABLE IN THE FIELD, WHETHER CONSPICUOUSLY VISIBLE OR NOT. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING IMPROVEMENTS, UTILITIES, AND SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
10. THIS DEMOLITION PLAN IS FOR GRAPHICAL REFERENCE ONLY. ITEMS NOT DEPICTED ON THESE PLAN MAY BE REQUIRED TO BE PROTECTED, REMOVED, OR RELOCATED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE LOCATIONS OF ALL EXISTING STRUCTURES, UTILITIES, AND APPURTENANCES WITHIN THE LIMITS OF CONSTRUCTION. DEMOLITION INCLUDES BUT IS NOT LIMITED TO THE ITEMS SHOWN ON THIS PLAN.
11. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR ANY EXISTING UNDERGROUND OR OVERHEAD UTILITIES.
12. SAWCUT DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD STAKE AND CONSULT ENGINEER TO VERIFY PRIOR TO CONSTRUCTION.

**CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.**

**CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.**

**24-HOUR CONTACT:**
**JOE CELENTO**
**(912) 272-4811**

GEORGIA811 Utilities Protection Center, Inc.
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0 20 40 Feet
SCALE 1" = 20'

PANDA EXPRESS CHINESE KITCHEN

**PANDA EXPRESS, INC.**
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| CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

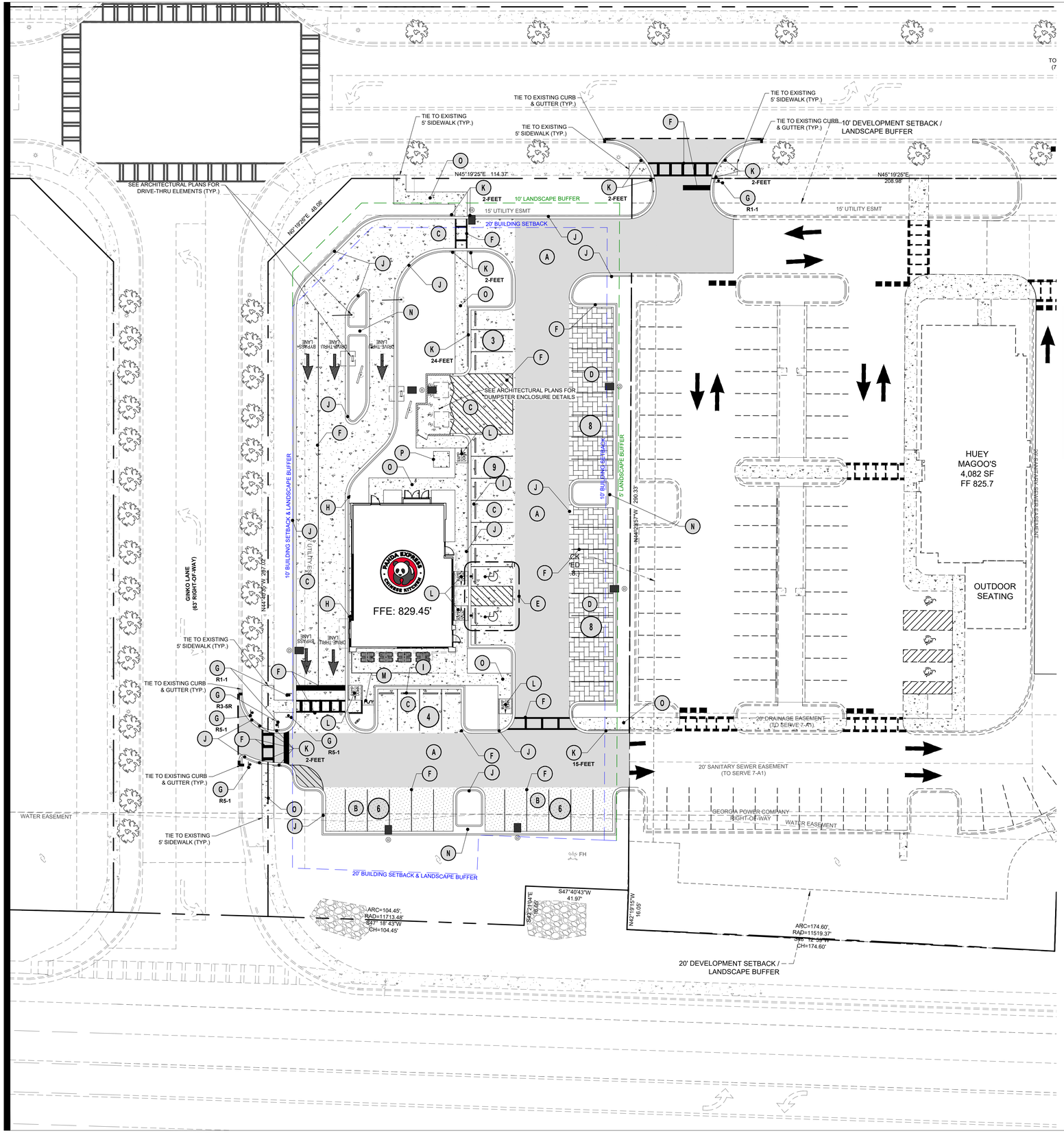
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE26748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

# DEMOLITION PLAN

C02.1

TRUE WARM & WELCOME 2300




## SITE LEGEND

- (A) HEAVY DUTY PAVEMENT SECTION: DETAIL 2A, SHEET C03.3
- (B) LIGHT DUTY PAVEMENT SECTION: DETAIL 2B, SHEET C03.3
- (C) CONCRETE SECTIONS: DRIVE-THRU: DETAIL 1, SHEET C03.3. PARKING: DETAIL 1, SHEET C03.3. DUMPSTER APPROACH PAD: DETAIL 1, SHEET C03.3.
- (D) PAVERS PAVEMENT SECTION: DETAIL 1, SHEET C03.4
- (E) ACCESSIBLE AREA: DETAIL 2, SHEET C03.2
- (F) STRIPING AND PAVEMENT MARKERS: DETAIL 3, SHEET C03.2
- (G) SITE SIGNAGE: DETAIL 4, SHEET C03.2
- (H) BOLLARD: DETAIL 6, SHEET C03.2
- (I) RUBBER WHEELSTOP: DETAIL 7, SHEET C03.2
- (J) 18" CURB & GUTTER: DETAIL 3, SHEET C03.3
- (K) CURB TRANSITION: DETAIL 4, SHEET C03.3
- (L) SIDEWALK RAMP: DETAIL 1, SHEET C03.2
- (M) BIKE RACK: DETAIL 5, SHEET C03.2
- (N) CONCRETE FLUME: DETAIL 6, SHEET C03.3
- (O) CONCRETE SIDEWALK: DETAIL 5, SHEET C03.3
- (P) TRANSFORMER PAD: DETAIL 7, SHEET C03.3

| COVINGTON TOWN CENTER - OUT PARCELS EXTRA PARKING | |
|---|---|
| MAXIMUM ADDITIONAL PARKING ALLOWED PER AGREEMENT BETWEEN MASTER DEVELOPER AND CITY (LETTER DATED AUGUST 27, 2021) | 350 |

| DATE | USE | LOT | EXTRA PARKING REQUESTED |
|---|---|---|---|
| 09/30/2021 | PANDA EXPRESS | TRACT 7-A1 | 17 |
| | | | |
| | | | |
| AVAILABLE ADDITIONAL PARKING REMAINING | | | 333 |

## SITE INFORMATION

JURISDICTION:
COVINGTON, GEORGIA
NEWTON COUNTY

ZONING:
CM-CORRIDOR MIX

REQUIRED BUILDING SETBACKS:
FRONT(S): 20'
SIDE(E): 0'
SIDE(W): 10'
REAR(N): 20'

REQUIRED PARKING SETBACKS:
FRONT(S): 20'
SIDE(E): 5'
SIDE(W): 10'
REAR(N): 10'

REQUIRED PARKING:
MINIMUM SPACE REQUIRED: NONE
MAXIMUM SPACES PERMITTED: 28 SPACES
CALCULATIONS: TEN (10) SPACES FOR EVERY 1,000 SF OF BUILDING AREA, ASSUMING 2,381 SF OF BUILDING AND 425 SF OF PATIO AREA IS PROVIDED, A MAXIMUM OF 28 SPACES IS PERMITTED.

PROPOSED PARKING :

| | |
|---|---|
| 9' X 18' (REGULAR) | = 43 |
| 8' X 18' (HC) | = 02 |
| TOTAL | = 45* |

* A LETTER HAS BEEN PROVIDED TO THE DEVELOPER FROM PANDA EXPRESS PROVIDING REASONS FOR NEEDING ADDITIONAL PARKING SPACES.

REQUIRED LANDSCAPE BUFFER:
FRONT: 20'
SIDE: 5'
REAR: 5'

DRIVE AISLE: 24'

SITE AREA CALCULATIONS:

| | |
|---|---|
| SIDE: | ±1.00 AC. |
| PERVIOUS AREA: | ±0.32 AC. |
| IMPERVIOUS AREA: | ±0.68 AC. |
| DISTURBED AREA: | ±0.91 AC. |

FLOOD HAZARD:
NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 13217C0127D, DATED 03/17/2014.

EXISTING INFORMATION:
PROVIDED BY PATRICK & ASSOCIATES, INC., DATED 07/06/2021. REFER TO SHEET C02.0 FOR SURVEY (BY OTHERS).

SITE LIGHTING:
PHOTOMETRICS DESIGNED BY OTHERS. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN, SHEETS SL01.0, AND OWNER PRIOR TO CONSTRUCTION.

## SITE NOTES

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS AND TREES AND OTHER DEBRIS WITHIN THE LIMITS OF THE WORK FROM THE SITE. ON SITE BURIAL OF TREES AND OTHER DEBRIS WILL NOT BE ALLOWED. THERE ARE NO KNOWN INERT BURY PITS ON THE SITE AND NONE WILL BE ALLOWED DURING CONSTRUCTION OF THE PROJECT.
2. ALL WORK SHALL COMPLY WITH COVINGTON/NEWTON COUNTY, STATE OF GEORGIA, AND FEDERAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
3. ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
4. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER PRIOR TO USE.
5. ALL WORK PERFORMED ON CITY, COUNTY, AND/OR STATE OR FEDERAL RIGHT-OF-WAY SHALL BE IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.
6. BASE COURSE MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO "STATE OF GEORGIA" TRANSPORTATION STANDARD SPECIFICATIONS", CURRENT EDITION.
7. ALL BUILDING DIMENSIONS SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. PHOTOMETRICS DESIGNED BY OTHERS. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN AND OWNER PRIOR TO CONSTRUCTION.
9. SEE SHEET C01.1 FOR GENERAL NOTES.

## BUILDING AREA NOTES

1. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION; i.e. IN TIMES OF RAIN OR MUD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC... WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 1141 3-1).
2. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING. INSTALL FRENCH DRAIN IN LANDSCAPED AREAS ADJACENT TO BUILDING AND CONNECT TO DRAINAGE SYSTEM.
3. SEE SHEET C01.1 FOR GENERAL NOTES.

**THE CONTRACTOR INSTALLING THE PERMEABLE PAVEMENT SYSTEM MUST BE EXPERIENCED WITH PERMEABLE PAVEMENTS AND SHALL PROVIDE REFERENCES ASSOCIATED WITH A LEAST ONE SUCCESSFUL PERMEABLE PAVER PROJECT WITHIN THE CITY OF COVINGTON.**

**CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.**

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**(912) 272-4811**

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

**CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.**

**CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.**

N 0 20 40 Feet
SCALE 1" = 20'

**CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO PLANTERS AROUND BUILDING AND PATIO. SEE ARCHITECTURAL/MEP PLANS FOR CONTINUATION.**

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ARCH PROJECT #: 2210604

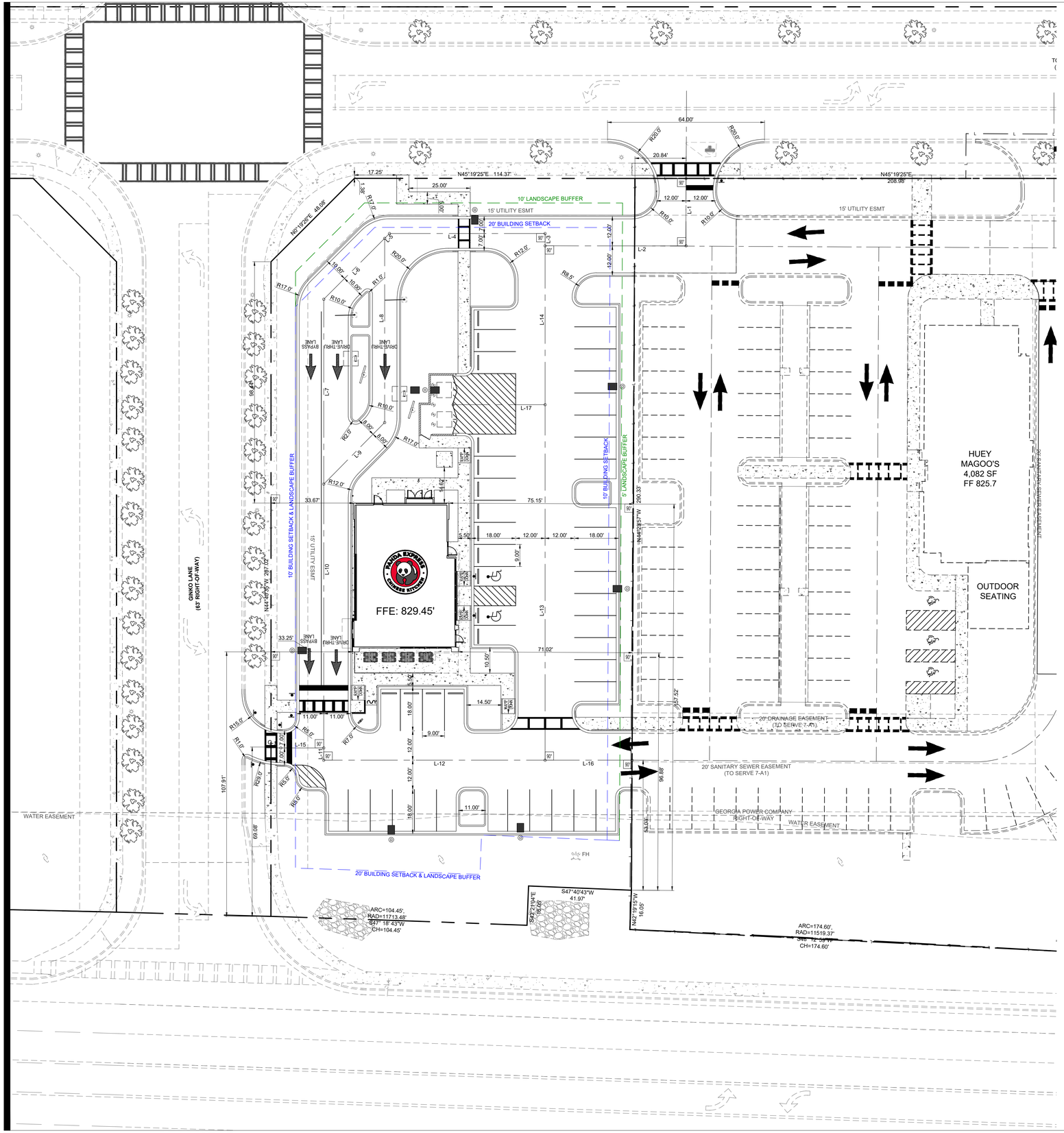
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

# SITE PLAN

C03.0

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS




## STAKING NOTES

1. ALL RADII ARE 3.0' UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE MEASURED TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL SITE LIGHTING POLE DIMENSIONS ARE TO THE CENTER OF THE POLE, UNLESS OTHERWISE NOTED.
4. STAKING OF STRIPING IS TO THE CENTERLINE OF THE STRIPE, UNLESS OTHERWISE NOTED.
5. SEE SHEET C01.1 FOR GENERAL NOTES.

| LINE TABLE | | | | |
|---|---|---|---|---|
| LINE # | LENGTH | DIRECTION | START POINT | END POINT |
| L-1 | 27.49' | N44°40'36"W | 2396964.38, 1318218.24 | 2396945.05, 1318237.78 |
| L-2 | 57.47' | N45°19'24"E | 2396923.51, 1318177.83 | 2396964.38, 1318218.24 |
| L-3 | 5.00' | S44°40'35"E | 2396920.00, 1318181.39 | 2396923.51, 1318177.83 |
| L-4 | 63.46' | N45°19'25"E | 2396874.87, 1318136.77 | 2396920.00, 1318181.39 |
| L-5 | 2.77' | N00°19'26"E | 2396874.86, 1318134.00 | 2396874.87, 1318136.77 |
| L-6 | 35.12' | N00°19'26"E | 2396874.66, 1318098.88 | 2396874.86, 1318134.00 |
| L-7 | 75.39' | N44°40'35"W | 2396927.66, 1318045.27 | 2396874.66, 1318098.88 |
| L-8 | 75.10' | S44°40'35"E | 2396874.86, 1318134.00 | 2396927.66, 1318080.59 |
| L-9 | 35.32' | N00°00'00"E | 2396927.66, 1318045.27 | 2396927.66, 1318080.59 |
| L-10 | 107.62' | N44°40'35"W | 2397003.33, 1317968.75 | 2396927.66, 1318045.27 |
| L-11 | 5.00' | S44°40'35"E | 2397003.33, 1317968.75 | 2397006.85, 1317965.19 |
| L-12 | 90.25' | N45°19'25"E | 2397006.85, 1317965.19 | 2397071.02, 1318028.65 |
| L-13 | 145.00' | S44°40'35"E | 2396969.07, 1318131.75 | 2397071.02, 1318028.65 |
| L-14 | 64.80' | S44°40'35"E | 2396923.51, 1318177.83 | 2396969.07, 1318131.75 |
| L-15 | 17.50' | S45°19'25"W | 2397003.33, 1317968.75 | 2396990.89, 1317956.44 |
| L-16 | 35.48' | N45°19'25"E | 2397071.02, 1318028.65 | 2397096.25, 1318053.59 |
| L-17 | 37.50' | N45°19'25"E | 2396942.40, 1318105.39 | 2396969.07, 1318131.75 |

| CURVE TABLE | | | | | |
|---|---|---|---|---|---|
| CURVE # | LENGTH | RADIUS | DELTA | CHORD LENGTH | CHORD BEARING |
| C-1 | 4.02' | 22.00' | 10.4757 | 4.02' | N50°33'41"E |

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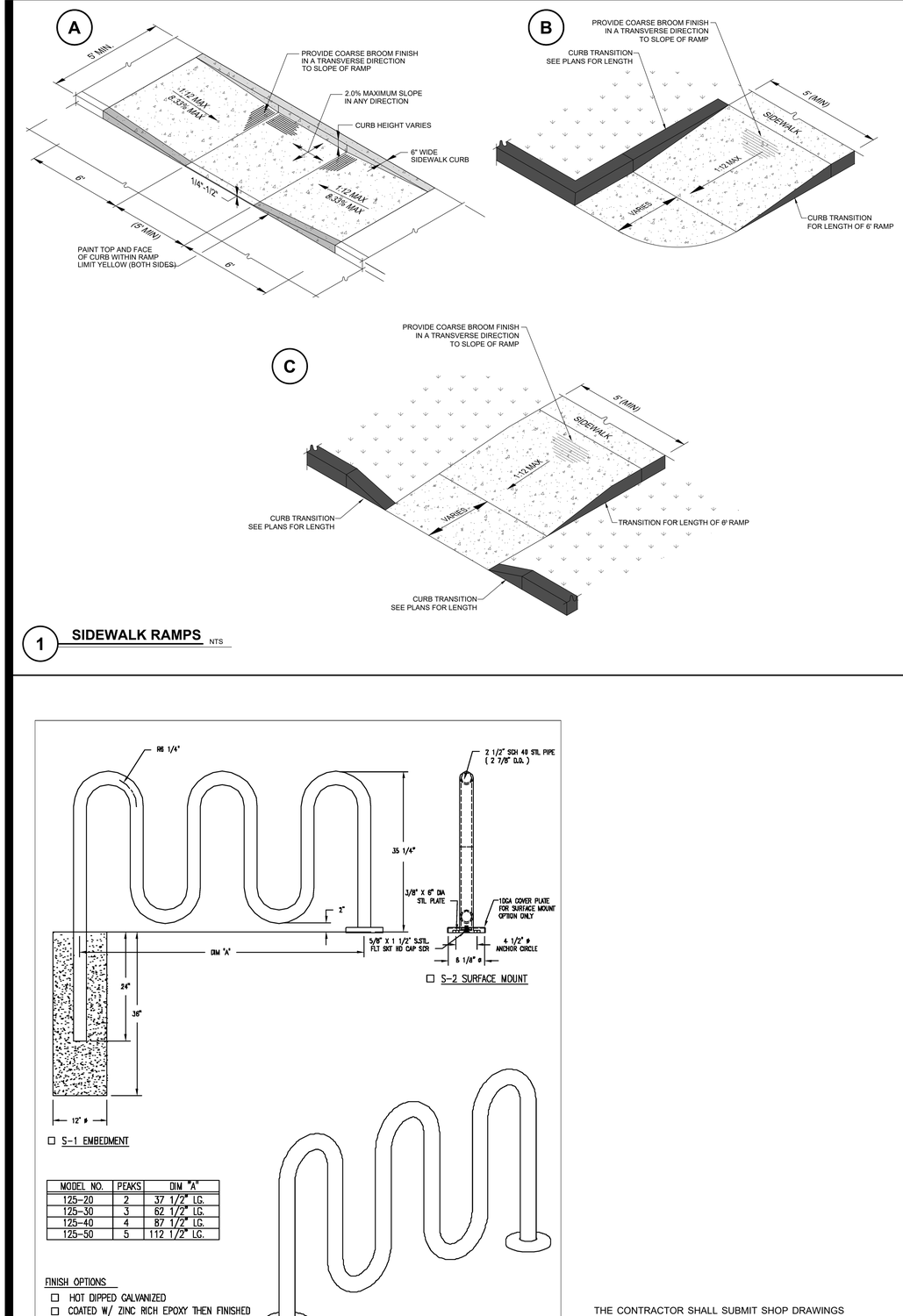
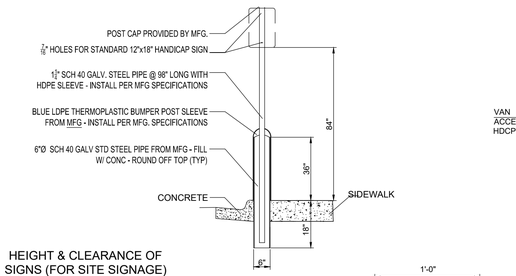
# STAKING PLAN

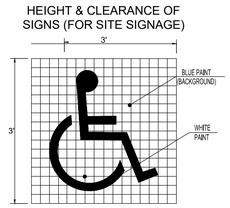
C03.1

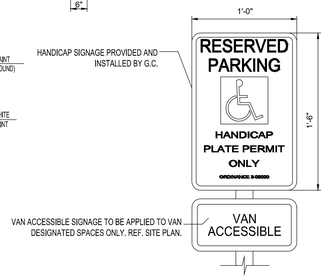
TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS



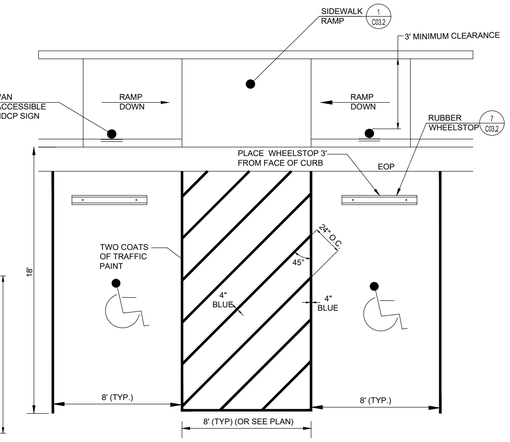

1 **SIDEWALK RAMPS** NTS



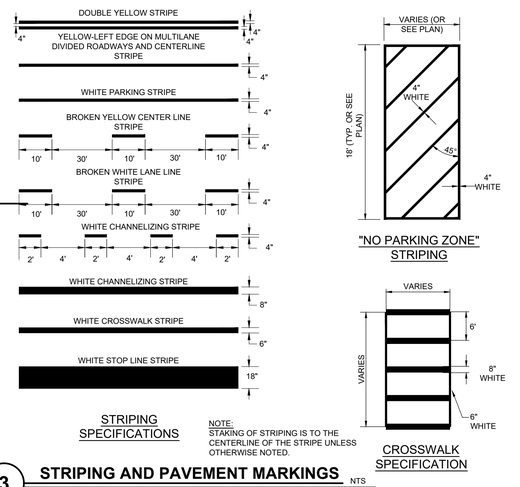




2 **ACCESSIBLE AREA** NTS




VAN ACCESSIBLE PARKING STALL LAYOUT AND STRIPING
N.T.S.




STRIPING SPECIFICATIONS

NOTE:
STAKING OF STRIPING IS TO THE CENTERLINE OF THE STRIPE UNLESS OTHERWISE NOTED.

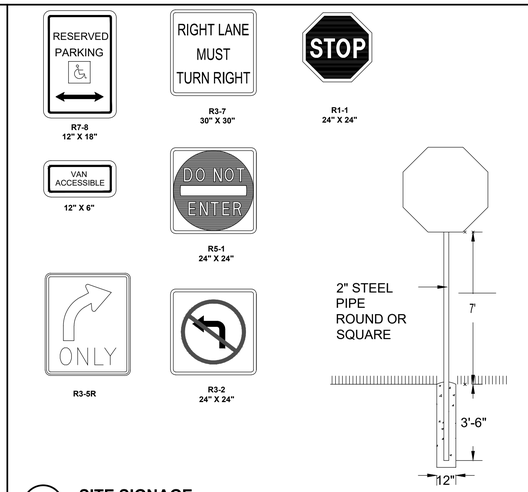



"NO PARKING ZONE" STRIPING




CROSSWALK SPECIFICATION

3 **STRIPING AND PAVEMENT MARKINGS** NTS




4 **SITE SIGNAGE** NTS




☐ S-2 SURFACE MOUNT

☐ S-1 EMBEDMENT

| MODEL NO. | PEAKS | DIM "A" |
|---|---|---|
| 125-20 | 2 | 37 1/2" LG. |
| 125-30 | 3 | 62 1/2" LG. |
| 125-40 | 4 | 87 1/2" LG. |
| 125-50 | 5 | 112 1/2" LG. |

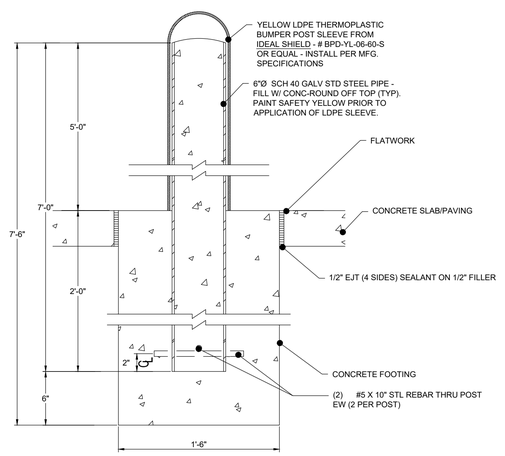
FINISH OPTIONS

☐ HOT DIPPED GALVANIZED
☐ COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.

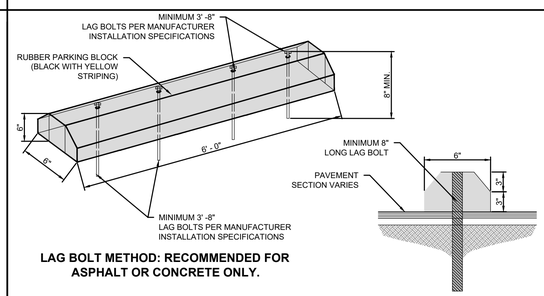
NOTE:
1.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR OPTION S-2.

5 **BIKE RACK** NTS

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER AND PANDA EXPRESS FOR APPROVAL.

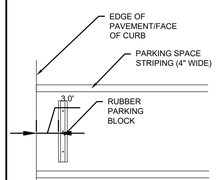



6 **BOLLARD** NTS




**LAG BOLT METHOD: RECOMMENDED FOR ASPHALT OR CONCRETE ONLY.**

**SECTION A-A**




**PLACEMENT PLAN**

TOOLS NEEDED:
-HIGH SPEED HAMMER DRILL WITH A ¾" MASONRY DRILL BIT
-IMPACT WRENCH OR HEAVY RATCHET WITH ¾" SOCKET

1. POSITION THE PARKING BLOCK WHERE YOU WANT TO INSTALL IT. USING THE HOLES MOLDED IN THE PARKING BLOCK AS TEMPLATES, MARK THE LOCATION OF EACH HOLE ON THE SURFACE.
2. REMOVE THE PARKING BLOCK. USING A HIGH-SPEED HAMMER DRILL WITH ¾" MASONRY BIT, DRILL A 4" TO 4 ½" DEEP HOLE AT EACH MARKED LOCATION.
3. INSERT A LAG ANCHOR ( WITH THE LARGE ROUND HOLE IN THE ANCHOR FACING UP) INTO EACH HOLE. TAP THE ANCHOR INTO THE HOLES WITH A HAMMER SO THAT THE TOP OF EACH ANCHOR IS FLUSH WITH THE SURFACE.
4. REPOSITION THE PARKING BLOCK SO THAT THE MOLDED HOLES LINE UP VERTICALLY WITH THE PILOT HOLES YOU DRILLED. BEGINNING IN THE CENTER HOLE, APPLY FIRM HAND PRESSURE. SLIP A WASHER ONTO A LAG BOLT, INSERT THE BOLT THROUGH THE HOLE IN THE PARKING BLOCK AND TIGHTEN THE BOLT ABOUT THREE QUARTERS OF THE WAY WITH A ¾" SOCKET. REPEAT FOR EACH HOLE IN THE PARKING BLOCK. FINISH TIGHTENING EACH BOLT UNTIL JUST SNUG. DO NOT OVER TIGHTEN! EXCESSIVE TIGHTENING MAY DAMAGE THE PARKING BLOCK AND WILL VOID THE WARRANTY.

7 **WHEELSTOP** NTS

**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
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| BID | 02/07/2022 |
| CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

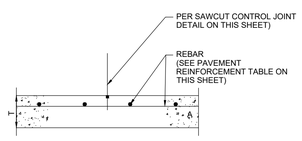
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETTIT
2/7/22

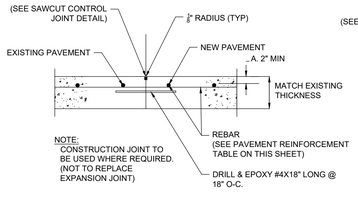
# HARDSCAPE DETAILS I

C03.2

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS




**SAWCUT JOINT**

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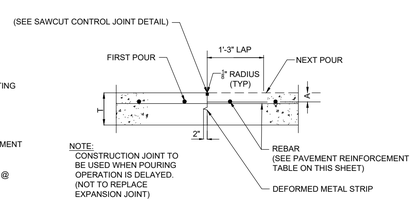


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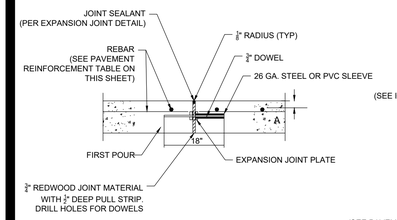
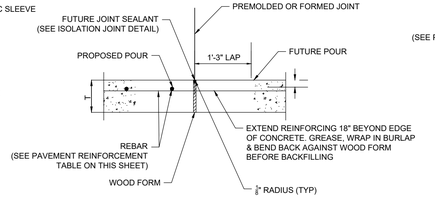


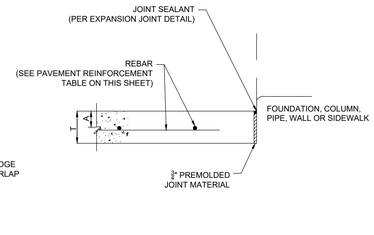

**SAWCUT JOINT**

NOTES:

1. REINFORCING STEEL BAR SIZE/SPACING SPECIFICATIONS IN GEOTECH REPORT SHALL SUPERSEDE ABOVE TABLE.
2. REINFORCING STEEL SIZE/SPACING IS BASED ON MIN. 60,000 PSI TENSILE STRENGTH REINFORCING STEEL AS SHOWN.
3. CONCRETE PAVING MIX DESIGN SHALL HAVE MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GEOTECHNICAL REPORT CONCRETE PAVING MIX DESIGN SHALL SUPERSEDE VALUES HEREIN.
4. MAXIMUM JOINT SPACING SHALL BE PER JOINT LAYOUT PLAN (IF PROVIDED) BUT SHALL NOT EXCEED VALUES IN TABLE.
5. MAXIMUM JOINT SPACING IN GEOTECHNICAL REPORT SHALL SUPERSEDE VALUES IN ABOVE TABLE.
6. USE STATE DOT SUBBASE UNLESS OTHERWISE SPECIFIED BY GEOTECHNICAL REPORT.
7. ALL JOINTS IN PAVING SHALL BE REFLECTED IN CURBING AND SHALL HAVE ALL THEIR RESPECTIVE JOINTING MATERIALS PRESENT (I.E. EXPANSION JOINTS SHALL HAVE THEIR RESPECTIVE FILLER BOARD AND CAULK REPLACED).
8. CURB EXPANSION JOINTS: - IF THERE IS AN EXPANSION JOINT IN THE PAVING, THE EXPANSION JOINT MUST FOLLOW THROUGH THE CURB. THE REINFORCING STEEL MUST ALSO BE CUT AT THE EXPANSION JOINT AND NOT ALLOWED TO RUN THROUGH THE JOINT CONTINUOUSLY. A SAW CUT EXPANSION JOINT IS NOT ACCEPTABLE BECAUSE NORMAL EXPANSION AND CONTRACTION WILL CAUSED THE CONCRETE TO PUSH AGAINST THE TWO SECTIONS AND ONE SIDE WILL EVENTUALLY FAIL. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN. THE CURB SHOULD BE CUT TWICE AND A ½" PIECE OF CONCRETE IS REMOVED. IN ALL CASES THE JOINT SHOULD BE CAULKED WITH NP1.
9. CONCRETE TOUCHING THE BACK OF CURBS:- ANY CONCRETE THAT TOUCHES THE BACK OF A CURB INCLUDING SIDEWALKS, ISLAND NOSINGS AND PAYPHONE PADS SHALL BE ISOLATED FROM THE CURB USING ½" BLACK ASPHALT IMPREGNATED FIBERBOARD. CONTRACTOR SHALL USE A REMOVABLE STRIP OR A ZIP-STRIP AND SEAL THE JOINT WITH SL1. THE ONLY EXCEPTION IS IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CURB AND PARKING LOT.
10. CURBS AT THE BUILDING FOUNDATION:- IF A CURB TOUCHES THE BUILDING FOUNDATION, IT NEEDS TO BE ISOLATED WITH EXPANSION JOINT MATERIAL JUST LIKE THE PAVING. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN. A ½" PIECE OF CONCRETE SHOULD BE REMOVED. THE JOINT SHOULD BE CAULKED WITH NP1.
11. EXPANSION JOINTS AT ISLAND NOSINGS:- IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CUB AND PARKING LOT, THEN PAVING EXPANSION JOINTS SHOULD CONTINUE THROUGH THE NOSINGS.




**CONCRETE TO CONCRETE TIE IN**

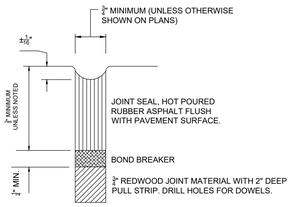



**CONSTRUCTION JOINT**

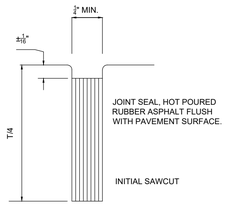
| CONCRETE SECTION DESIGNATION | (T) SLAB THICKNESS (IN.) | (COVER) COVER (IN.) (2" MIN) | MAX. EXPANSION JOINT SPACING (FT.) | 60,000 PSI STEEL REINFORCING STEEL BAR SIZE & SPACING" |
|---|---|---|---|---|
| TYPE "A" | 6 | 2 | 15 | #3 @ 24" C-C |
| TYPE "B" | 8 | 2 | 15 | #3 @ 24" C-C |
| TYPE "C" | 12 | 2 | 15 | #3 @ 24" C-C |

REINFORCEMENT TABLE

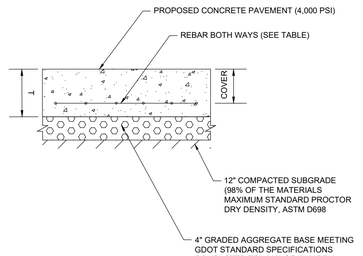
## 1 CONCRETE SECTIONS NTS

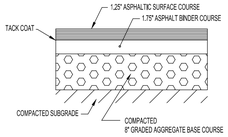



**EXPANSION JOINT**




**SAW CUT CONTROL JOINT**

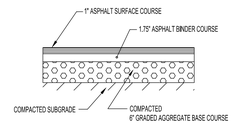



**A**

**HEAVY-DUTY ASPHALT**

NOTE TO DESIGNER: PAVEMENT THICKNESSES TO MATCH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, AT A MINIMUM.

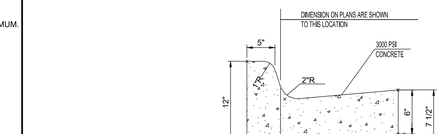



**B**

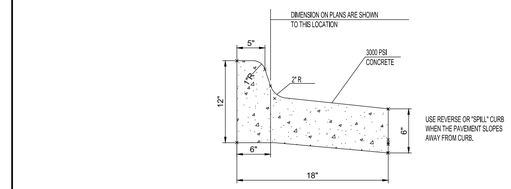
**LIGHT-DUTY ASPHALT**

NOTE: THE ASPHALT SURFACE COURSE SHOULD CONFORM TO THE MOST RECENT EDITION OF THE GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, FOR HOT MIX ASPHALTIC CONCRETE SURFACE COURSE. THE BASE COURSE SHOULD CONFORM TO THE __DOT STANDARDS FOR BASE COURSE COMPACTED TO 100 PERCENT OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY. TOP 12" OF SUBGRADE TO BE COMPACTED TO 98% OF THE STANDARD PROCTOR (ASTM D698) MAXIMUM DRY DENSITY (OR AS RECOMMENDED, AS A MINIMUM).

## 2 PAVEMENT SECTION NTS

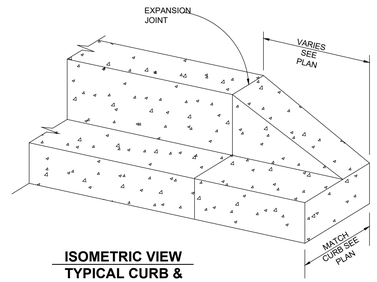



**NORMAL CURB & GUTTER**

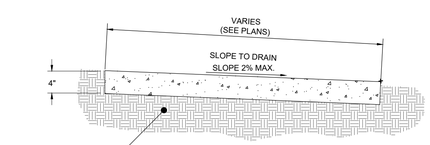



**REVERSE CURB & GUTTER**

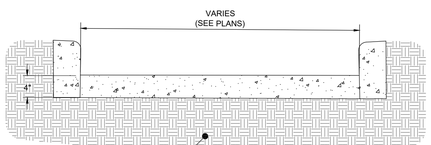
## 3 18" CURB & GUTTER NTS



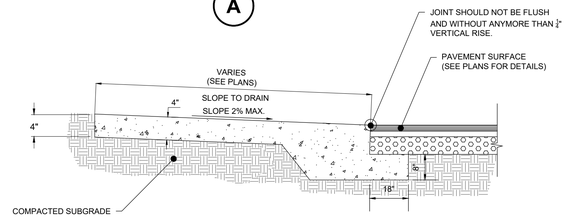

**ISOMETRIC VIEW**
**TYPICAL CURB & GUTTER**



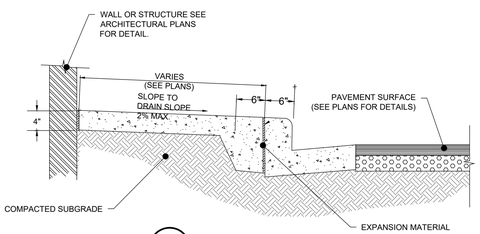

**A**




**C**



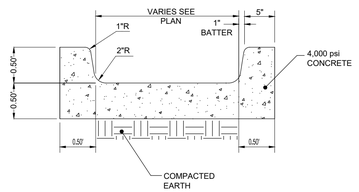

**B**




**D**

CONCRETE NOTES:
- f'c = 4,000 PSI
- PROVIDE CONTROL JOINTS AT 5' O.C.
- PROVIDE EXPANSION JOINTS ONLY WHERE CONCRETE PAVEMENT ABUTS FIXED OBJECTS, CURB AND GUTTER, AND OTHER PAVEMENT TYPES.

## 5 SIDEWALK SECTION NTS

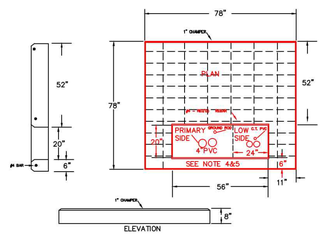



GENERAL NOTES:
- SLOPE FLUME ACCORDING TO GRADING & DRAINAGE PLAN
- ENGINEER SHALL ENSURE POSITIVE DRAINAGE

CONCRETE NOTES:
- f'c = 4,000 PSI
- PROVIDE CONTROL JOINTS AT 5' O.C.
- PROVIDE EXPANSION JOINTS ONLY WHERE CONCRETE PAVEMENT ABUTS FIXED OBJECTS, CURB AND GUTTER, AND OTHER PAVEMENT TYPES.
- 6"X6" WWM MAY BE SUBSTITUTED WITH EQUILEVENT STRENGTH FIBER MESH.

## 6 CONCRETE FLUME NTS

TRANSFORMER PAD SPECIFICATION:
45 KVA – 300 KVA




NOTES:
1) 28 DAY CONCRETE STRENGTH – MIN 3000 P.S.I.
2) FINISH – LIGHT BROOM
3) #4 REBAR 12" O.C. Horizontal & Vertical
4) CONTRACTOR – THE RIGHT HAND 24" OF THIS OPENING IS FOR SECONDARY CONDUITS. THE REMAINDER IS FOR THE UTILITY'S PRIMARY.
5) PROVIDE TWO 4" PVC CONDUITS WITH SWEEPING 90 DEGREE TO OUTSIDE OF PAD AREA 36" Radius FROM PRIMARY SIDE AS DIRECTED. ALSO PROVIDE ONE CONDUIT 90 DEGREE SWEEP FOR GROUNDING CONDUCTOR (MIN 3\4")
6) CITY OF COVINGTON EMPLOYEES WILL MAKE UP THE SECONDARY SIDE OF TRANSFORMER. ELECTRICIAN IS RESPONSIBLE FOR INSTALLATION OF C.T.'S AND METER BASE, IF REQUIRED (PROVIDED BY THE CITY OF COVINGTON). ELECTRICIAN SHALL MOUNT METER BASE ON WALL OR STEEL SUPPORT – PER CITY INSTRUCTION.
7) PROVIDE 1.25" CONDUIT ON SECONDARY SIDE FOR THE CITY'S C.T.'S WIRING TO METER BASE.
8) MAINTAIN A MINIMUM OF 10 FEET FROM BUILDING, ALSO MAINTAIN AT LEAST A 10 FEET CLEARING ON FRONT (DOOR) SIDE. ALL OTHER A MINIMUM OF 5 FEET.

CITY OF COVINGTON
NEWTON COUNTY, GEORGIA
DATE: JANUARY 2, 2016 REVISED: MAY, 25 2016

## 7 TRANSFORMER PAD NTS

[redacted]

**PANDA EXPRESS, INC.**

1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

[redacted]

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[redacted]

REVISIONS:

[redacted]

ISSUE DATE:

| | | |
|---|---|---|
| | PRELIMINARY | 01/19/2022 |
| | BID | 02/07/2022 |
| | CONSTRUCTION | XX-XX-XX |

[redacted]

DRAWN BY: INGENIUM

[redacted]

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

[redacted]

INGENIUM
Civil Engineering & Planning

[redacted]

[redacted]

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETTIT
2/7/22

[redacted]

# HARDSCAPE DETAILS II

C03.3

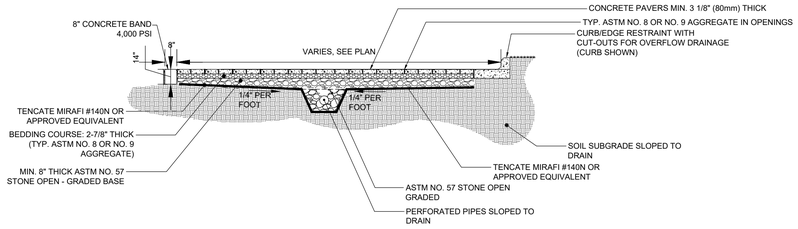
[redacted]

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

| PRODUCT INFORMATION: | |
|---|---|
| MANUFACTURER: | PAVESTONE |
| DIMENSIONS: | 4 3/4"W x 9 7/16"L x 3 1/8"H |
| WT/STONE: | 11.5 LBS |
| STONES/PALLET: | 280 |
| APPROX. WT./PALLET: | 3,255 LBS |
| SQ. FT./PALLET: | 88 |
| PRODUCT NUMBER: | 699 (ECO-PRIORA) |

INSPECTIONS: THE CONTRACTOR SHALL CALL FOR INSPECTION OF THE SUBGRADE PREPARATION PRIOR TO PLACEMENT OF BASE MATERIAL AND FOR A SUBSEQUENT INSPECTION OF THE BASE MATERIAL PLACEMENT PRIOR TO INSTALLATION OF BLOCKS.

MAINTENANCE: OWNERS MUST ADEQUATELY MAINTAIN THEIR PERMEABLE BLOCK PAVEMENTS. OVER TIME, THE SPACE BETWEEN THE PAVERS WILL TEND TO CLOG. CONDUCT PERIODIC VISUAL INSPECTIONS TO DETERMINE IF SURFACES ARE CLOGGED WITH VEGETATION OR FINE GRAIN SOILS. CLOGGED SURFACES SHOULD BE CORRECTED IMMEDIATELY. SURFACES SHOULD BE SWEPT WITH A HIGH-EFFICIENCY OR VACUUM SWEEPER TWICE PER YEAR; PREFERABLY, ONCE IN THE AUTUMN AFTER LEAF FALL, AND AGAIN IN EARLY SPRING. AS LONG AS ANNUAL INFILTRATION RATE TESTING DEMONSTRATES THAT A RATE OF 5 INCHES PER HOUR OR GREATER IS BEING MAINTAINED, THE SWEEPING FREQUENCY CAN BE REDUCED TO ONCE PER YEAR.




INSTALLATION NOTES:

1. EXCAVATE UNSUITABLE, UNSTABLE OR UNCONSOLIDATED SUBGRADE MATERIAL. COMPACT THE AREA, WHICH HAS BEEN CLEARED AS PER THE ENGINEER'S OF RECORD (EOR) REQUIREMENTS. BACKFILL AND LEVEL WITH OPEN GRADED AGGREGATES AS PER THE EOR'S STRUCTURAL AND HYDRAULIC DESIGN.
2. PLACE BEDDING COURSE OF HARD AND ANGULAR MATERIAL CONFORMING TO THE GRADING REQUIREMENTS OF ASTM NO. 8 OR NO. 9 TO A UNIFORM MINIMUM DEPTH OF 1 1/2" - 2" (38mm) SCREEDED TO THE GRADE AND PROFILE REQUIRED.
3. INSTALL ECO-PRIORA WITH JOINTS APPROXIMATELY 1/4" (7mm).
4. WHERE REQUIRED, CUT PAVE STONES WITH AN APPROVED CUTTING DEVICE TO FIT ACCURATELY, NEATLY AND WITHOUT DAMAGED EDGES.
5. TAMP PAVE STONES WITH A PLATE COMPACTOR, UNIFORMLY LEVEL, TRUE TO GRADE AND FREE OF MOVEMENT.
6. SPREAD A THIN LAYER OF HARD ANGULAR MATERIAL CONFORMING TO THE GRADING REQUIREMENTS OF ASTM NO. 8 OR NO. 9 AGGREGATE OVER ENTIRE PAVING AREA.
7. MAKE ONE MORE PASS WITH PLATE COMPACTOR TO NEST THE AGGREGATE AND FILL JOINTS TO THE TOP.
8. SWEEP AND REMOVE SURPLUS JOINT MATERIAL.
9. SEE THE MANUFACTURER'S PERMEABLE INTERLOCKING CONCRETE PAVING SPECIFICATION, SECTION 32 14 13.19 FOR SPECIFIC REQUIREMENTS.

THE CONTRACTOR INSTALLING THE PERMEABLE PAVEMENT SYSTEM MUST BE EXPERIENCED WITH PERMEABLE PAVEMENTS AND SHALL PROVIDE REFERENCES ASSOCIATED WITH A LEAST ONE SUCCESSFUL PERMEABLE PAVER PROJECT WITHIN THE CITY OF COVINGTON.

## 1 PERMEABLE PAVER SECTION

NTS


**PANDA EXPRESS, INC.**

1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288



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REVISIONS:

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ARCH PROJECT #: 2210604

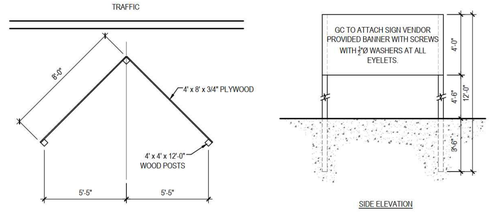
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

HARDSCAPE DETAILS III

C03.4

NOTE: GC TO COORDINATE PLACEMENT ONSITE WITH PANDA PROJECT MANAGER.



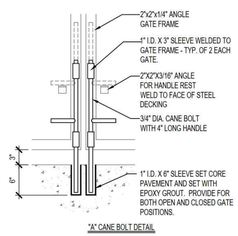

PLAN VIEW



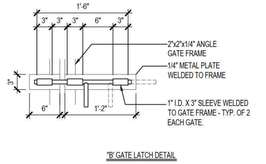

SIDE ELEVATION

## "COMING SOON" SIGN DETAIL 16

Scale= 1/4" = 1'-0" A-407




"A" CANE BOLT DETAIL

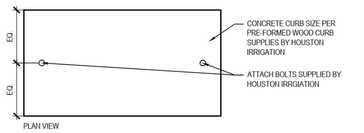



"B" GATE LATCH DETAIL

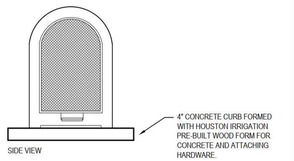
## DUMPSTER GATE LATCH DETAILS 15

Scale= NTS A-407

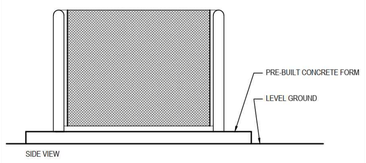
PROVIDE & INSTALL CAGE AND COVER FOR THE BACK-FLOW PREVENTER AT 4" CONCRETE CURB IN LANDSCAPE AREA, GORILLA CAGE, MANUFACTURED BY HOUSTON IRRIGATION SERVICES SPRING, TEXAS (281-705-9701). PROVIDE INSULATED COVER, 'AQUA SHIELD' MODEL # BFP1-S FOR COLDER REGIONS OF US. COORDINATE WITH PANDA PM.




PLAN VIEW



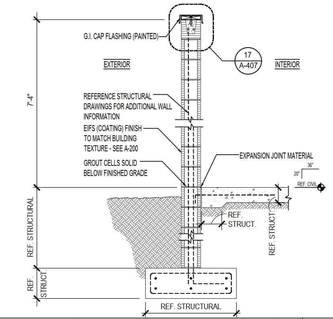

SIDE VIEW




SIDE VIEW

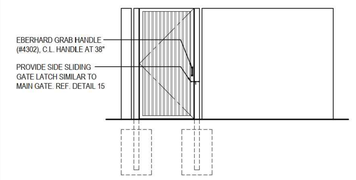
## BACKFLOW PROTECTION CAGE 11

Scale= NTS A-407




## TRASH ENCLOSURE WALL SECTION 8

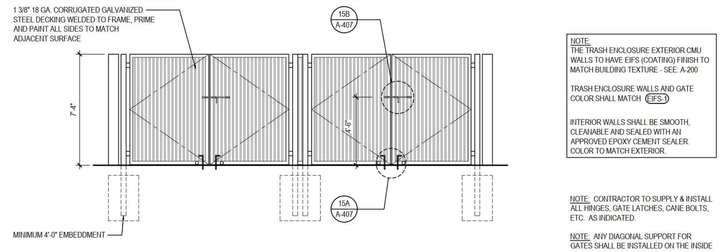
Scale= 1/2" = 1'-0" A-407




SIDE ELEVATION

## SIDE ELEVATION 4

Scale= 1/4" = 1'-0" A-407




FRONT ELEVATION

NOTE:
THE TRASH ENCLOSURE EXTERIOR CMU WALLS TO HAVE EIFS (COATING) FINISH TO MATCH BUILDING TEXTURE. - SEE: A-200

TRASH ENCLOSURE WALLS AND GATE COLOR SHALL MATCH (EIFS-1)

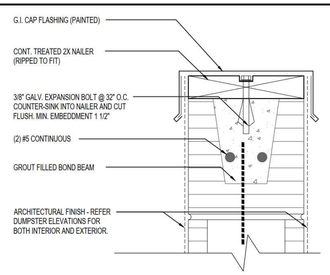
INTERIOR WALLS SHALL BE SMOOTH, CLEANABLE AND SEALED WITH AN APPROVED EPOXY CEMENT SEALER. COLOR TO MATCH EXTERIOR.

NOTE: CONTRACTOR TO SUPPLY & INSTALL ALL HINGES, GATE LATCHES, CANE BOLTS, ETC. AS INDICATED.

NOTE: ANY DIAGONAL SUPPORT FOR GATES SHALL BE INSTALLED ON THE INSIDE OF ENCLOSURE. THIS SHALL NOT BE VISIBLE ON THE OUTSIDE OF THE GATE.

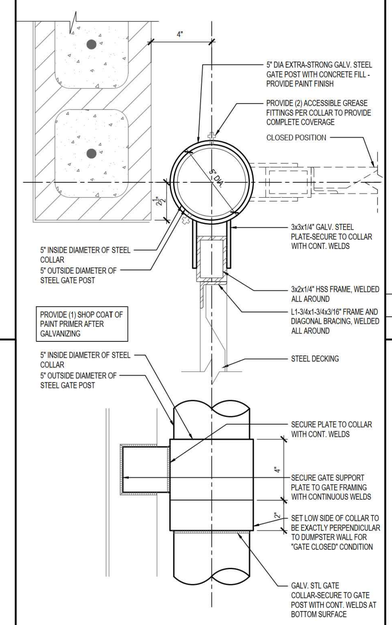
## FRONT ELEVATION 2

Scale= 1/4" = 1'-0" A-407




## DUMPSTER CAP DETAIL 17

Scale= 3" = 1'-0" A-407




## HINGE DETAIL 13

Scale= 3" = 1'-0" A-407

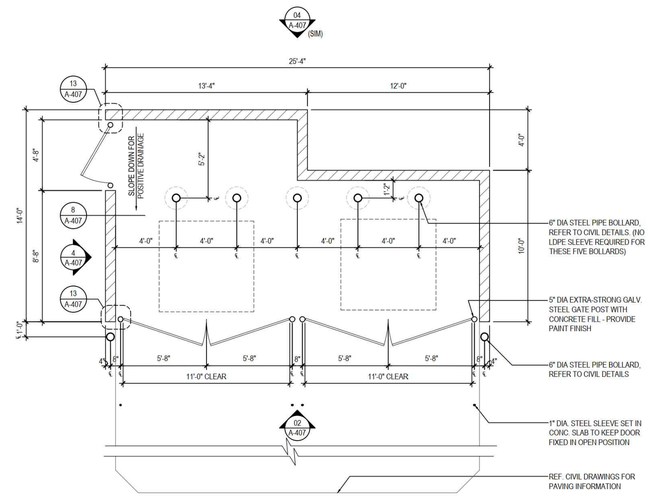
## NOT USED 10

Scale: A-407

## NOT USED 9

Scale: A-407

NOTE:
REFER TO CIVIL FOR DUMPSTER AREA FLOOR FINISH




## TRASH ENCLOSURE 1

Scale= 1/4" = 1'-0" A-407


**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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Architects Engineers Planners
2600 Maitland Center Pkwy. Maitland, FL 32751
P (407) 661-9100
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09.01.2021

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-407

TRASH ENCLOSURE DETAILS

TRUE WARM & WELCOME 2300 R5

**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
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ISSUE DATE:

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| | PRELIMINARY | 01/19/2022 |
| | BID | 02/07/2022 |
| | CONSTRUCTION | XX-XX-XX |
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DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

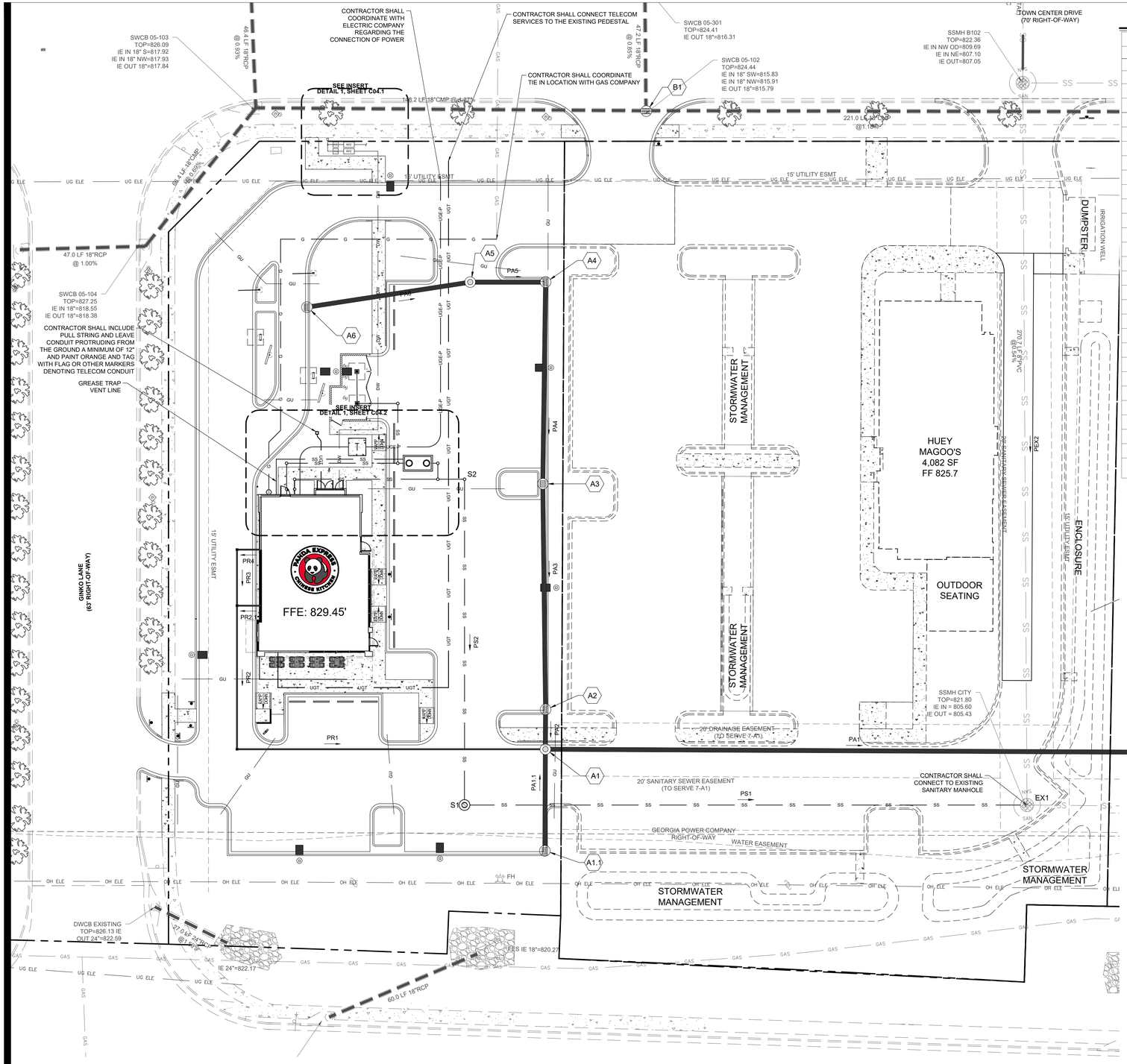
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

# HARDSCAPE DETAILS IV

C03.5

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS




## UTILITY LEGEND

| UTILITY | LINETYPE/SYMBOL | REFERENCE |
|---|---|---|
| DOMESTIC WATER LINE | DW — DW | 1.5" PVC |
| FIRE WATER LINE | FW — FW | NOT APPLICABLE |
| BUILDING FIRE SPRINKLER LINE | FWS — FWS | NOT APPLICABLE |
| IRRIGATION WATER LINE | IRR — IRR | 1" PVC |
| DOMESTIC WATER METER (WM) | WM | 2" METER |
| IRRIGATION METER (IRR) | IRR | 1" METER |
| BACKFLOW PREVENTER (RPZ) | RPZ | SEE PLANS |
| FIRE VAULT (DDC) | DDC | NOT APPLICABLE |
| DC BACKFLOW PREVENTER | | SEE PLANS |
| WATER TAP OR TEE | | SEE PLANS |
| GATE VALVE (GV) | GV | DETAIL 4, SHEET C04.1 |
| THRUST BLOCK (TB) | TB | NOT APPLICABLE |
| FIRE HYDRANT (FH) | FH | NOT APPLICABLE |
| FIRE DEPARTMENT CONNECTION (FDC) | FDC | NOT APPLICABLE |
| SANITARY SEWER (SS) | SS — SS | SEE PLANS |
| SANITARY MANHOLE (SSMH) | | DETAIL 1, SHEET C04.3 |
| GENERAL CLEAN OUT (Co) | CO | DETAIL 4, SHEET C04.2 |
| SAMPLING MANHOLE | | NOT APPLICABLE |
| SANITARY STRUCTURE NUMBER | S2 | SEE PLANS |
| UNDERGROUND ELECTRIC LINE-PRIMARY | UGE-P — UGE-P | (2) 4" PVC |
| UNDERGROUND ELECTRIC LINE-SECONDARY | UGE-S — UGE-S | (2) 4" PVC |
| POST INDICATOR VALVE | PIV | NOT APPLICABLE |
| SITE LIGHTING POLE | | SEE PLANS |
| TRANSFORMER PAD | T | DETAIL 7, SHEET C03.3 |
| METER/CT PEDESTAL | CT | *** |
| UNDERGROUND TELEPHONE LINE | UGT — UGT | 2" PVC |
| GENERAL UTILITY CONDUIT | GU — GU | (2) 4" PVC |
| GAS LINE | G | *** |
| GAS METERS | | *** |

*** ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS. ***

## GENERAL UTILITY NOTES

1. SEE SHEET C01.1 FOR GENERAL NOTES.
2. SEE MEP PLANS FOR CONTINUATION OF ALL UTILITIES INTO BUILDING.
3. SANITARY LATERALS SHALL HAVE A MINIMUM FALL OF 1.00%.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
5. THE FINAL LOCATION OF FIRE HYDRANTS, VALVES, WATER LINES, BACKFLOW PREVENTERS, ETC. SHALL BE DETERMINED DURING CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CHANGES TO LOCATION OR CONFIGURATION. NFPA CODES SHALL BE ADHERED TO.
6. THE CONTRACTOR SHALL CONTACT PUBLIC UTILITIES INSPECTIONS AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
7. ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH LOCAL GOVERNING CODES.
8. UTILITY CONDUIT MATERIAL FOR ELECTRIC, TELEPHONE, AND CABLE SHALL BE INSTALLED PER UTILITY PROVIDER SPECIFICATIONS.
9. CONTRACTOR TO BUILD CONCRETE TRANSFORMER PAD AND INSTALL SCHEDULE 40 PVC CONDUIT AND PULL STRING WITH SWEEPING BENDS.
10. ALL WORK ON THE WATER OR SEWER SYSTEM MUST FOLLOW THE CURRENT CITY OF COVINGTON WATER AND SEWER STANDARDS AND SPECIFICATIONS MANUAL.

## CITY ELECTRICAL NOTES

1. THE CONTRACTOR TO FURNISH AND INSTALL TRANSFORMER CONCRETE PAD PER CITY OF COVINGTON SPECIFICATIONS.
2. THE CONTRACTOR IS REQUIRED TO INSTALL TEMPORARY POWER POLE. TEMPORARY POLE SPECIFICATIONS ARE ON THE CITY OF COVINGTON WEBSITE UNDER "ELECTRIC DEPARTMENT".
3. IF THERE ARE INSTALLATIONS CHARGES, PAYMENT MUST BE MADE BEFORE START OF WORK.
4. OWNER/DEVELOPER TO SIGN EASEMENTS AND PAY ANY INFRASTRUCTURE RELOCATION COST BEFORE START OF CONSTRUCTION.
5. THE CONTRACTOR IS REQUIRED TO INSTALL, TWO (2) SCHEDULE 40, 4INCH PVC CONDUITS AT A MINIMUM DEPTH OF 40 INCHES DEEP FROM THE TRANSFORMER TO THE APPROVED POWER POLE OR UNDERGROUND CONNECTION LOCATION AT THE RIGHT OF WAY OF THE POWER EASEMENT.
6. CITY OF COVINGTON FURNISH METER BASE AND 6 INCH STEEL CHANNEL, UNLESS MOUNTED ON STRUCTURE, FOR THE DEVELOPER'S ELECTRICIAN TO INSTALL PER CITY OF COVINGTON SPECIFICATIONS.
7. IF THE PROJECT SHOULD CAUSE RELOCATION OR REMOVAL OF ANY EXISTING POWER MAIN OR SERVICE THERE WILL BE ASSOCIATED COST.

## AVERAGE WATER & SEWER DEMAND

- PER COVINGTON GA ORDINANCES DEMAND IS ESTIMATED USING 1 ERU (EQUIVALENT RESIDENTIAL UNITS) AS 350 GPD (GALLONS PER DAY).
- SEWER DEMAND TO BE ESTIMATED AT 300 GPD/ERU.

CALCULATIONS:

ERU = FAST FOOD MULTIPLIER * SEATING COUNT = 0.05 * 60 SEATS = 3 ERU

AVG. DAILY WATER DEMAND = 3 ERU * 350 GPD/ERU = 1,050 GPD

AVG. DAILY SEWER DEMAND = 3 ERU * 300 GPD/ERU = 900 GPD

**CONTRACTOR SHALL INCLUDE PULL STRING FOR TELECOM SERVICE. LEAVE CONDUIT PROTRUDING OUT OF GROUND MIN 12" AND PAINT ORANGE, TAG WITH FLAG OR OTHER MARKER NOTING LOCATION OF TELEPHONE CONDUIT.**

**CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.**

**CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.**

**CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO PLANTERS AROUND BUILDING AND PATIO. SEE ARCHITECTURAL/MEP PLANS FOR CONTINUATION.**

**CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.**

## UTILITY INFORMATION

### WATER

| | GC | SELLER | DEVEL-OPER | UTILITY | ADDITIONAL NOTES |
|---|---|---|---|---|---|
| LINE EXTENSION TO PROPERTY LINE | | | | | NOT APPLICABLE |
| PIPING (PROPERTY LINE TO BUILDING) | ● | | | | --- |
| TAPPING THE MAIN | ● | | | | --- |
| WATER VAULT | ● | | | | --- |
| WATER (METER) PIT | ● | | | | --- |
| DOMESTIC METER | ● | | | | --- |
| FIRE METER | | | | | NOT APPLICABLE |
| IRRIGATION METER | ● | | | | --- |
| DOMESTIC BFP | ● | | | | --- |
| FIRE BFP | | | | | NOT APPLICABLE |
| IRRIGATION BFP | ● | | | | --- |
| OBTAINING EASEMENTS | ● | | | ● | --- |
| OBTAINING ROW WORK PERMITS | | | | | NOT APPLICABLE |

### SANITARY SEWER

| | GC | SELLER | DEVEL-OPER | UTILITY | ADDITIONAL NOTES |
|---|---|---|---|---|---|
| TAPPING OF THE MAIN | ● | | | | --- |
| LINE EXTENSION | ● | | | | --- |
| SERVICE LATERAL (INSIDE PROPERTY) | ● | | | | --- |
| OBTAINING EASEMENTS | ● | | ● | ● | --- |
| OBTAINING ROW PERMIT | | | | | NOT APPLICABLE |

### ELECTRIC

| | GC | SELLER | DEVEL-OPER | UTILITY | ADDITIONAL NOTES |
|---|---|---|---|---|---|
| PRIMARY CONDUIT | ● | | | | --- |
| PRIMARY CABLE | | | | ● | --- |
| PRIMARY FINAL CONNECTION | | | | ● | --- |
| TRANSFORMER | | | | ● | --- |
| TRANSFORMER PAD | ● | | | | --- |
| POLE | | | | | NOT APPLICABLE |
| SECONDARY CABLE | ● | | | | --- |
| SECONDARY CONDUIT | ● | | | | --- |
| SECONDARY FINAL INSPECTION | ● | | | | --- |
| METER | | | | ● | --- |
| CT CABINET | | | | ● | --- |
| CT METER CONDUIT | ● | | | | --- |
| SOCKET | | | | ● | --- |
| OBTAINING EASEMENTS | ● | | | ● | --- |
| ROW WORK PERMITS | | | | ● | --- |

### TELEPHONE

| | GC | SELLER | DEVEL-OPER | UTILITY | ADDITIONAL NOTES |
|---|---|---|---|---|---|
| CONDUIT | ● | | | | --- |
| TRENCH & BACKFILL | ● | | | | --- |
| CABLE & WIRE | | | | ● | --- |
| OBTAINING EASEMENTS | ● | | | ● | --- |
| OBTAINING ROW WORK PERMITS | ● | | | | --- |

### GAS

| | GC | SELLER | DEVEL-OPER | UTILITY | ADDITIONAL NOTES |
|---|---|---|---|---|---|
| TAP | | | | ● | --- |
| PIPING | | | | ● | --- |
| TRENCH AND BACKFILL | | | | ● | --- |
| METER | | | | ● | --- |
| REGULATOR | | | | ● | --- |
| OBTAINING EASEMENTS | ● | | | | --- |
| OBTAINING ROW WORK PERMITS | ● | | | ● | --- |

**CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.**

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

**24-HOUR CONTACT:**
**JOE CELENTO**
**(912) 272-4811**

N

0 20 40 Feet

SCALE 1" = 20'

PANDA EXPRESS CHINESE KITCHEN

**PANDA EXPRESS, INC.**

1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

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REVISIONS:

ISSUE DATE:

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| PRELIMINARY | 01/19/2022 |
| BID | 02/07/2022 |
| CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

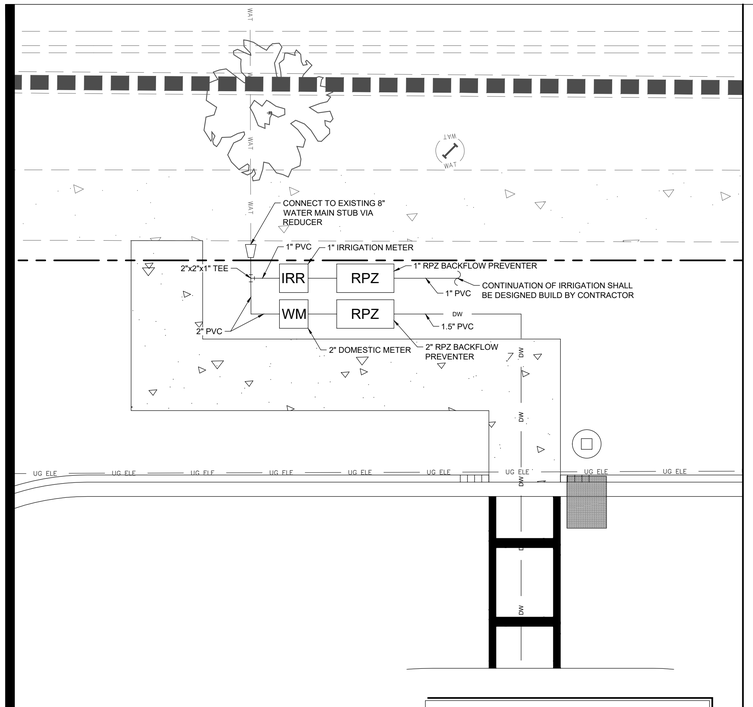
INGENIUM
Civil Engineering & Planning

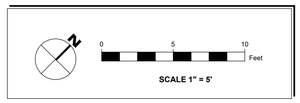
GEORGIA REGISTERED No. PE26748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

# UTILITY PLAN

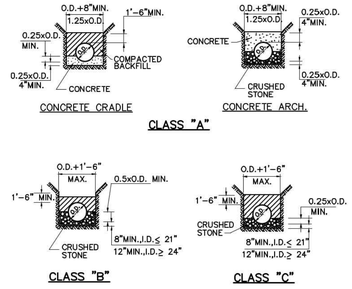
C04.0

TRUE WARM & WELCOME 2300



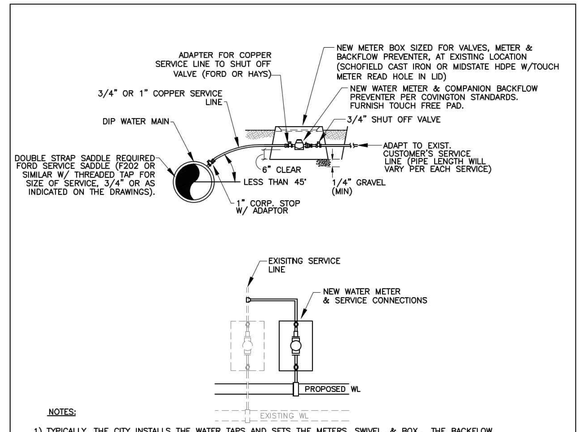

**1 WATER METER INSERT**




| CITY OF COVINGTON | City of Covington, Engineering Department, 2116 Stallings Street, Covington, Georgia 30015 |
|---|---|
| WATER SYSTEM DETAIL | |
| BEDDING CLASSES | DRAWN BY: EFT |
| | CHECKED BY: |
| | DATE: 6/02 |
| | REVISED: 4/11 |

**2 PIPE BEDDING** NTS

STANDARD DETAIL PROVIDED BY COVINGTON UTILITIES DEPARTMENT




NOTES:

1) TYPICALLY, THE CITY INSTALLS THE WATER TAPS AND SETS THE METERS, SWIVEL, & BOX. THE BACKFLOW PREVENTER SHALL BE INSTALLED BY THE BUILDER/DEVELOPER OR HIS/HER REPRESENTATIVE AND SHALL BE CONNECTED TO THE SWIVEL. IF THE METER AND BACKFLOW PREVENTER WILL NOT FIT IN ONE BOX, WHEN INCORPORATING THE SWIVEL, THEN A SEPARATE BOX FOR THE BACKFLOW PREVENTER MUST BE USED. THIS BACKFLOW PREVENTER BOX MUST BE THE SAME MAKE, MODEL, AND COLOR AS WATER METER BOX. IF THE SWIVEL IS BYPASSED, THE C.O. FOR THAT PARTICULAR HOME OR BUSINESS WILL BE HELD UNTIL THE BACKFLOW PREVENTER IS PROPERLY INSTALLED.

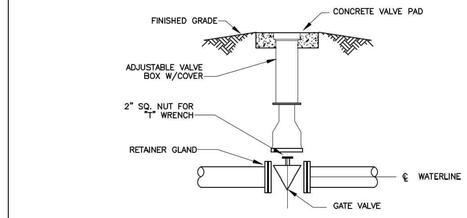
2) ONCE THE CITY INSTALLS THE METER AND APPURTENANCES, THE BOX LID IS CLOSED. MANY TIMES DURING THE CONSTRUCTION OF THE HOUSE, THE LIDS ARE TOSSED TO THE SIDE. THIS CAN CAUSE THE METER TO FREEZE AND BREAK DURING THE WINTER MONTHS. IF THIS HAPPENS, THE BUILDER/DEVELOPER WILL BE CHARGED FOR A NEW METER AND INSTALLATION COST.

3) AT THE REQUEST OF THE BUILDER/DEVELOPER AND AFTER PAYMENT FOR THE WATER TAP, THE METER AND APPURTENANCES ARE SET BY THE CITY. IT IS THE RESPONSIBILITY OF THE BUILDER/DEVELOPER TO ENSURE THAT THE BOXES REMAIN INTACT AND UNDISTURBED. IF GRADE CHANGES OR MATERIAL DELIVERY RESULTS IN ALTERED OR BROKEN BOXES, THE BUILDER

| CITY OF COVINGTON | City of Covington, Engineering Department, 2116 Stallings Street, Covington, Georgia 30015 |
|---|---|
| WATER SYSTEM DETAIL | |
| WATER SERVICE CONNECTION | DRAWN BY: EFT |
| | CHECKED BY: |
| | DATE: 6/02 |
| | REVISED: 4/11 |

**3 WATER SERVICE CONNECTION** NTS

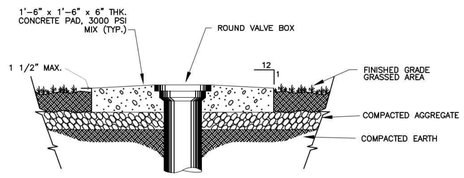
STANDARD DETAIL PROVIDED BY COVINGTON UTILITIES DEPARTMENT




| CITY OF COVINGTON | City of Covington, Engineering Department, 2116 Stallings Street, Covington, Georgia 30015 |
|---|---|
| WATER SYSTEM DETAIL | |
| ISOLATION GATE VALVE | DRAWN BY: EFT |
| | CHECKED BY: |
| | DATE: 6/02 |
| | REVISED: 4/11 |

**4 GATE VALVE & VALVE PAD** NTS

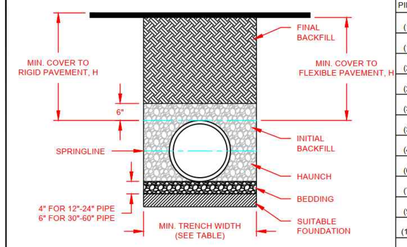
STANDARD DETAIL PROVIDED BY COVINGTON UTILITIES DEPARTMENT




TYPICAL VALVE PAD DETAIL 6 (1 | 21) NTS

| CITY OF COVINGTON | City of Covington, Engineering Department, 2116 Stallings Street, Covington, Georgia 30015 |
|---|---|
| WATER SYSTEM DETAIL | |
| VALVE PAD | DRAWN BY: EFT |
| | CHECKED BY: |
| | DATE: 6/02 |
| | REVISED: 4/11 |

RECOMMENDED MINIMUM TRENCH WIDTHS




| PIPE DIAM. | MIN. TRENCH WIDTH |
|---|---|
| 4" (100mm) | 21" (533mm) |
| 6" (150mm) | 23" (584mm) |
| 8" (200mm) | 26" (660mm) |
| 10" (250mm) | 28" (711mm) |
| 12" (300mm) | 30" (762mm) |
| 15" (375mm) | 34" (864mm) |
| 18" (450mm) | 39" (991mm) |
| 24" (600mm) | 48" (1219mm) |
| 30" (750mm) | 56" (1422mm) |
| 36" (900mm) | 64" (1626mm) |
| 42" (1050mm) | 72" (1829mm) |
| 48" (1200mm) | 80" (2032mm) |
| 60" (1500mm) | 96" (2438mm) |

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

| PIPE DIAM. | SURFACE LIVE LOADING CONDITION: H-25 | SURFACE LIVE LOADING CONDITION: HEAVY CONSTRUCTION (75T AXLE LOAD) * |
|---|---|---|
| 12" - 48" (300mm - 1200mm) | 12" (305mm) | 48" (1219mm) |
| 60" (1500mm) | 24" (610mm) | 60" (1524mm) |

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER
**SEE BACKFILL REQUIREMENTS IN NOTE 6.

MAXIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

| PIPE DIAM. | CLASS I | | CLASS II | | CLASS III |
|---|---|---|---|---|---|
| | COMPACTED | DUMPED | 95% | 90% | 95% |
| 4" (100mm) | 37 (11.3m) | 18 (5.5m) | 25 (7.6m) | 18 (5.5m) | 18 (5.5m) |
| 6" (150mm) | 44 (13.4m) | 20 (6.1m) | 29 (8.8m) | 20 (6.1m) | 21 (6.4m) |
| 8" (200mm) | 32 (9.8m) | 15 (4.6m) | 22 (6.7m) | 15 (4.6m) | 16 (4.9m) |
| 10" (250mm) | 38 (11.6m) | 18 (5.5m) | 26 (7.9m) | 18 (5.5m) | 18 (5.5m) |
| 12" (300mm) | 35 (10.7m) | 17 (5.2m) | 24 (7.3m) | 17 (5.2m) | 17 (5.2m) |
| 15" (375mm) | 38 (11.6m) | 17 (5.2m) | 25 (7.6m) | 17 (5.2m) | 18 (5.5m) |
| 18" (450mm) | 36 (11.0m) | 17 (5.2m) | 24 (7.3m) | 17 (5.2m) | 17 (5.2m) |
| 24" (600mm) | 28 (8.5m) | 13 (4.0m) | 20 (6.1m) | 13 (4.0m) | 14 (4.3m) |
| 30" (750mm) | 28 (8.5m) | 13 (4.0m) | 20 (6.1m) | 13 (4.0m) | 14 (4.3m) |
| 36" (900mm) | 26 (7.9m) | 12 (3.7m) | 18 (5.5m) | 13 (4.0m) | 13 (4.0m) |
| 42" (1050mm) | 23 (7.0m) | 11 (3.4m) | 16 (4.9m) | 11 (3.4m) | 11 (3.4m) |
| 48" (1200mm) | 25 (7.6m) | 11 (3.4m) | 17 (5.2m) | 11 (3.4m) | 12 (3.7m) |
| 60" (1500mm) | 25 (7.6m) | 11 (3.4m) | 17 (5.2m) | 11 (3.4m) | 12 (3.7m) |

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE,
UNIT WEIGHT OF SOIL (Ys) = 120 PCF

| REV. | DESCRIPTION | BY | MM/DD/YY | CHK'D |
|---|---|---|---|---|
| | COVER HEIGHTS TO MATCH TN 2.01 | AGC | 09/28/17 | CMF |

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ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

**TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)**

DRAWING NUMBER: STD-101

ADS ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

DRAWN BY: TJR
DATE: 12/29/16
SCALE: NTS
SHEET: 1 OF 1

**5 STORM PIPE BEDDING** NTS

PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

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REVISIONS:

ISSUE DATE:

| | |
|---|---|
| PRELIMINARY | 01/19/2022 |
| BID | 02/07/2022 |
| CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

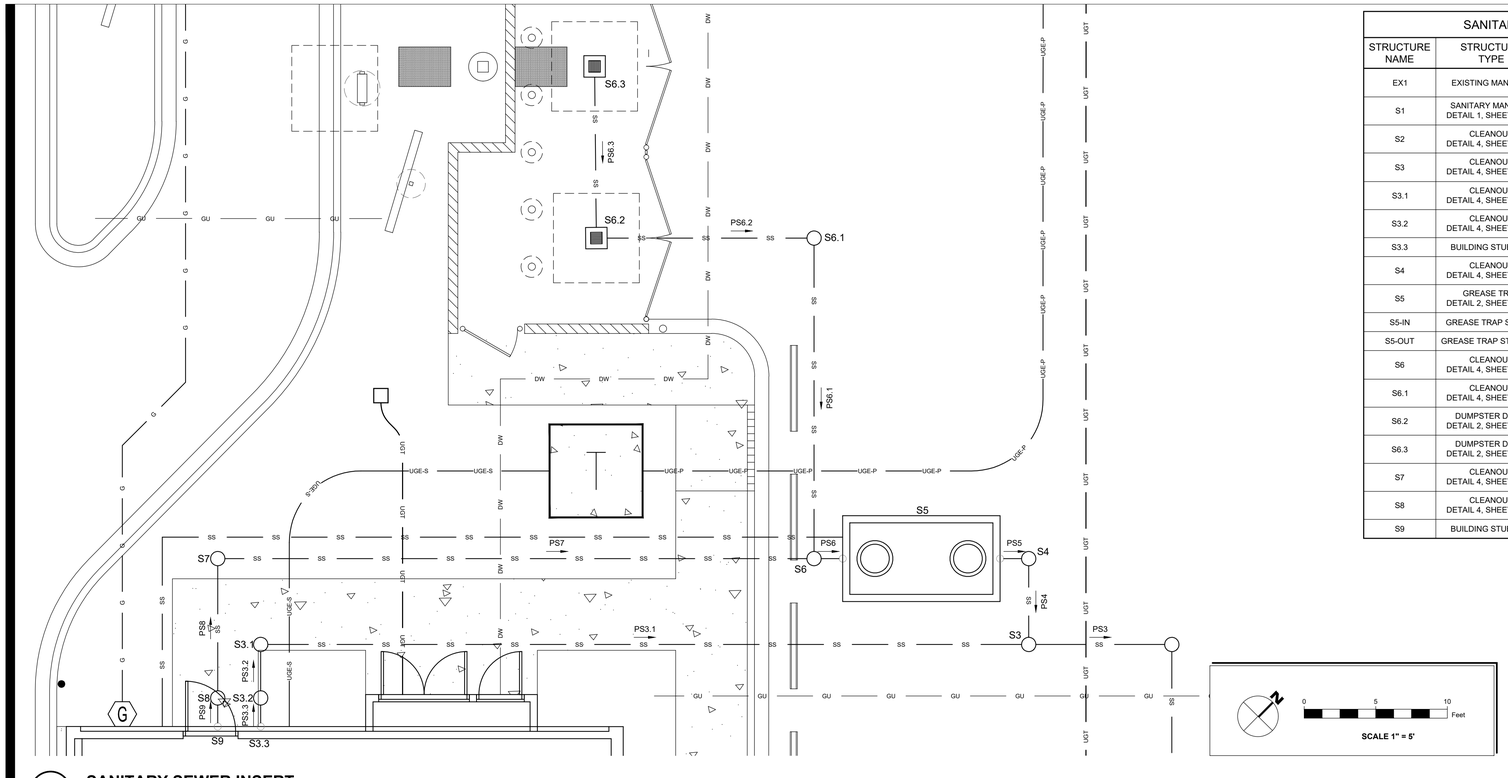
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

UTILITY DETAILS I

C04.1

TRUE WARM & WELCOME 2300




## SANITARY STRUCTURE TABLE

| STRUCTURE NAME | STRUCTURE TYPE | RIM ELEVATION | INVERT IN | INVERT OUT |
|---|---|---|---|---|
| EX1 | EXISTING MANHOLE | 821.80 | 805.80 (PS1)<br>805.60 (PEX2) | 805.60 (PEX1) |
| S1 | SANITARY MANHOLE<br>DETAIL 1, SHEET C04.3 | 826.53 | 816.24 (PS2) | 816.04 (PS1) |
| S2 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 827.60 | 822.08 (PS3) | 822.08 (PS2) |
| S3 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 827.89 | 822.58 (PS3.1)<br>822.58 (PS4) | 822.58 (PS3) |
| S3.1 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 829.33 | 825.66 (PS3.2) | 825.66 (PS3.1) |
| S3.2 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 829.38 | 825.85 (PS3.3) | 825.85 (PS3.2) |
| S3.3 | BUILDING STUB-OUT | 829.40 | | 825.95 (PS3.3) |
| S4 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 827.79 | 822.88 (PS5) | 822.88 (PS4) |
| S5 | GREASE TRAP<br>DETAIL 2, SHEET C04.2 | 827.95 | | |
| S5-IN | GREASE TRAP STUB-IN | 828.08 | 823.18 (PS6) | |
| S5-OUT | GREASE TRAP STUB-OUT | 827.83 | | 822.98 (PS5) |
| S6 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 828.14 | 823.28 (PS7)<br>823.28 (PS6.1) | 823.28 (PS6) |
| S6.1 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 828.01 | 823.73 (PS6.2) | 823.73 (PS6.1) |
| S6.2 | DUMPSTER DRAIN<br>DETAIL 2, SHEET C04.4 | 828.03 | 824.03 (PS6.3) | 824.03 (PS6.2) |
| S6.3 | DUMPSTER DRAIN<br>DETAIL 2, SHEET C04.4 | 827.91 | | 824.27 (PS6.3) |
| S7 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 829.13 | 825.36 (PS8) | 825.36 (PS7) |
| S8 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 829.37 | 825.85 (PS9) | 825.85 (PS8) |
| S9 | BUILDING STUB-OUT | 829.40 | | 825.95 (PS9) |

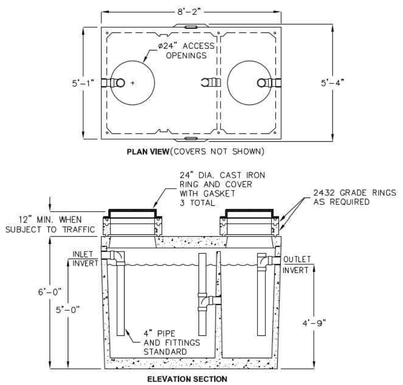
## SANITARY PIPE TABLE

| NAME | SIZE | LENGTH | SLOPE | MATERIAL |
|---|---|---|---|---|
| PEX1 | 8" | 247' | 0.78% | PVC |
| PEX2 | 8" | 271' | 0.54% | PVC |
| PS1 | 6" | 211' | 4.86% | PVC |
| PS2 | 6" | 122' | 4.78% | PVC |
| PS3 | 6" | 10' | 5.00% | PVC |
| PS3.1 | 6" | 54' | 5.74% | PVC |
| PS3.2 | 6" | 4' | 5.00% | PVC |
| PS3.3 | 6" | 2' | 5.00% | PVC |
| PS4 | 6" | 6' | 5.00% | PVC |
| PS5 | 6" | 2' | 5.00% | PVC |
| PS6 | 6" | 2' | 5.00% | PVC |
| PS6.1 | 6" | 22' | 2.00% | PVC |
| PS6.2 | 6" | 15' | 2.00% | PVC |
| PS6.3 | 6" | 12' | 2.00% | PVC |
| PS7 | 6" | 42' | 5.00% | PVC |
| PS8 | 6" | 10' | 5.00% | PVC |
| PS9 | 6" | 2' | 5.00% | PVC |

**1** **SANITARY SEWER INSERT** NTS

## 1000 GALLON GREASE INTERCEPTOR

**MODEL JP1000-EE-G**
**TRAFFC RATED**




OPERATING CAPACITY: 1,000 GALLONS.

DESIGN LOAD: H-20 TRAFFIC WITH DRY SOIL CONDITIONS (WATER LEVEL BELOW TANK) AND 1 TO 6 FEET EARTH COVER.

BEDDING NOTE: SUITABLE SUB-BASE BEDDED WITH GRANULAR MATERIAL SHALL BE PREPARED TO HANDLE ANTICIPATED LOADS.

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

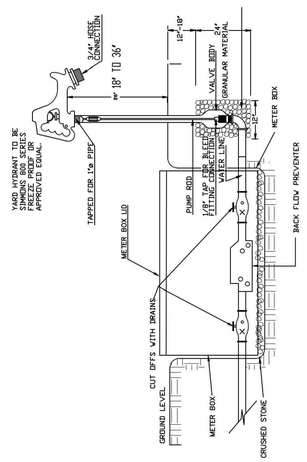
MINIMUM EXCAVATION 6'-1" x 9'-2" x REQ'D DEPTH

Jensen Precast reserves the right to make changes to product design and/or dimensions without notice. Please contact Jensen Precast whenever necessary for confirmation or advice on product design.

JENSEN PRECAST

4/21/2010
JP1000_EE_G_AZ_A.DWG
©2010

**2** **1,000 GAL. GREASE TRAP** NTS




CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

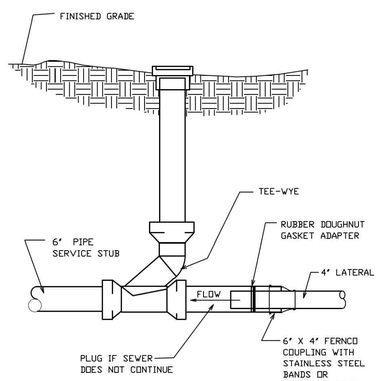
HOSE BIBB & BACKFLOW PREVENTER DETAIL

City of Covington
Engineering Department
2116 Stallings Street
Covington, Georgia 30015

DRAWN BY: EFT
CHECKED BY:
DATE: 6/02
REVISED: 4/11

**3** **SANITARY BACKFLOW PREVENTER** NTS

STANDARD DETAIL PROVIDED BY COVINGTON UTILITIES DEPARTMENT




CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

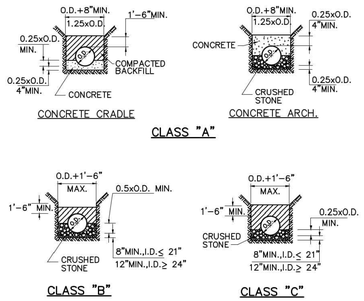
6" CLEAN OUT

City of Covington
Engineering Department
2116 Stallings Street
Covington, Georgia 30015

DRAWN BY: EFT
CHECKED BY:
DATE: 6/02
REVISED: 4/11

**4** **SANITARY CLEANOUT** NTS

STANDARD DETAIL PROVIDED BY COVINGTON UTILITIES DEPARTMENT




CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

BEDDING CLASSES

City of Covington
Engineering Department
2116 Stallings Street
Covington, Georgia 30015

DRAWN BY: EFT
CHECKED BY:
DATE: 6/02
REVISED: 4/11

**5** **SANITARY PIPE BEDDING** NTS

STANDARD DETAIL PROVIDED BY COVINGTON UTILITIES DEPARTMENT


**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288


REVISIONS:

ISSUE DATE:

| | |
|---|---|
| PRELIMINARY | 01/19/2022 |
| BID | 02/07/2022 |
| CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

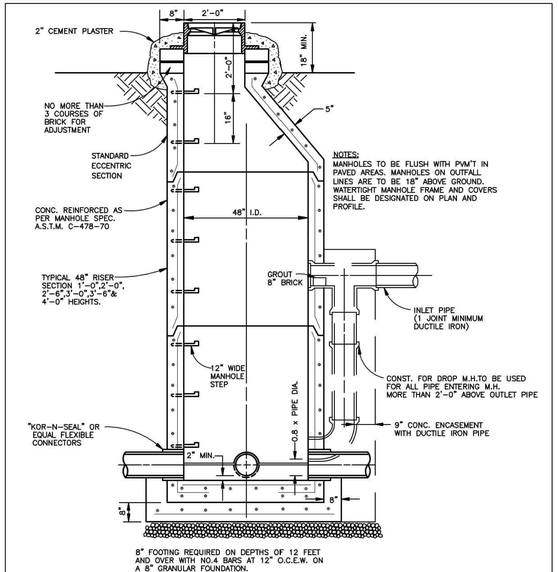
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

# UTILITY DETAILS II

C04.2

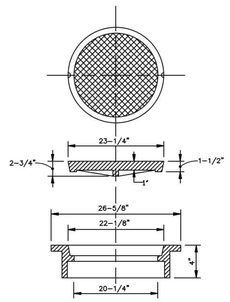
TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS




| CITY OF COVINGTON<br>SANITARY SEWER SYSTEM DETAIL | City of Covington<br>Engineering Department<br>2116 Stallings Street<br>Covington, Georgia 30015 |
|---|---|
| STANDARD MANHOLE | DRAWN BY: EFT<br>CHECKED BY:<br>DATE: 6/02<br>REVISED: 4/11 |

**1 SANITARY MANHOLE & COVER** NTS

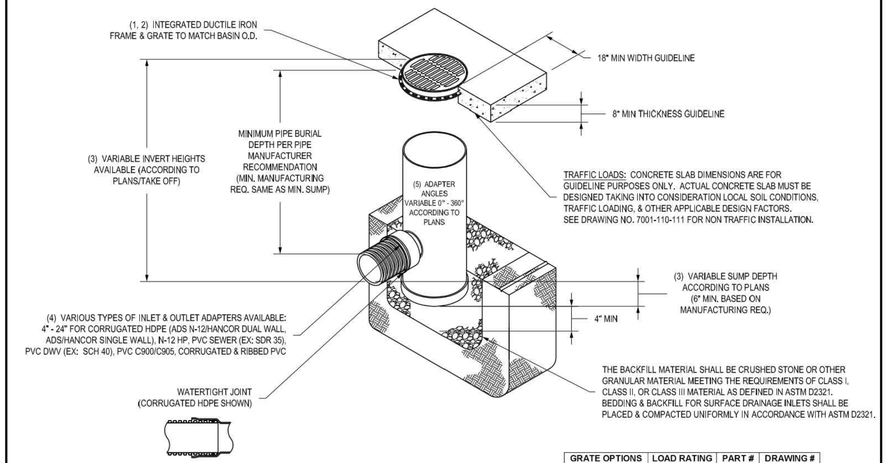
STANDARD DETAIL PROVIDED BY COVINGTON UTILITIES DEPARTMENT




| CITY OF COVINGTON<br>SANITARY SEWER SYSTEM DETAIL | City of Covington<br>Engineering Department<br>2116 Stallings Street<br>Covington, Georgia 30015 |
|---|---|
| TRAFFIC FRAME & COVER | DRAWN BY: EFT<br>CHECKED BY:<br>DATE: 6/02<br>REVISED: 4/11 |

CONTRACTOR SHALL USE XYPEX BIO-SAN 500 AD MIX ON ALL SANITARY SEWER MANHOLE STRUCTURES.

## NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X




| GRATE OPTIONS | LOAD RATING | PART # | DRAWING # |
|---|---|---|---|
| PEDESTRIAN | MEETS H-10 | 2499CGP | 7001-110-216 |
| STANDARD | MEETS H-20 | 2499CGS | 7001-110-217 |
| SOLID COVER | MEETS H-20 | 2499CGC | 7001-110-218 |
| DOME | N/A | 2499CGD | 7001-110-219 |
| DROP IN GRATE | LIGHT DUTY | 2401DI | 7001-110-075 |

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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| DRAWN BY | EBC | MATERIAL | |
|---|---|---|---|
| DATE | 04-03-06 | | |
| REVISED BY | NMH | PROJECT NO./NAME | |
| DATE | 03-14-16 | | |
| DWG SIZE | A | SCALE 1:40 | SHEET 1 OF 1 |

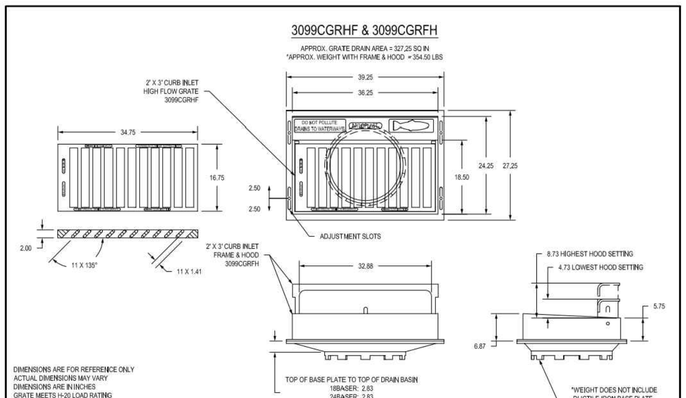
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-192 REV E

**2 DROP GRATE INLET** NTS

## 3099CGRHF & 3099CGRFH




DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
NO. 7002-110-058
SLOPE OF GRATE SURFACE IS 5.2%
CURB INLET FRAME INSIDE VOLUME IS APPROX 2.73 CU FT
APPROX. DRAIN AREA OF GRATE & HOOD
LOWEST SETTING = 463.92 SQ IN
LOWEST + 1" SETTING = 486.79 SQ IN
LOWEST + 2" SETTING = 529.67 SQ IN
LOWEST + 3" SETTING = 562.54 SQ IN
HIGHEST SETTING = 595.42 SQ IN

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| DRAWN BY | EBC | MATERIAL | |
|---|---|---|---|
| DATE | 04-10-06 | DUCTILE IRON | |
| REVISED BY | CCA | PROJECT NO./NAME | |
| DATE | 09-05-13 | | |
| DWG SIZE | A | SCALE 1:16 | SHEET 1 OF 1 |

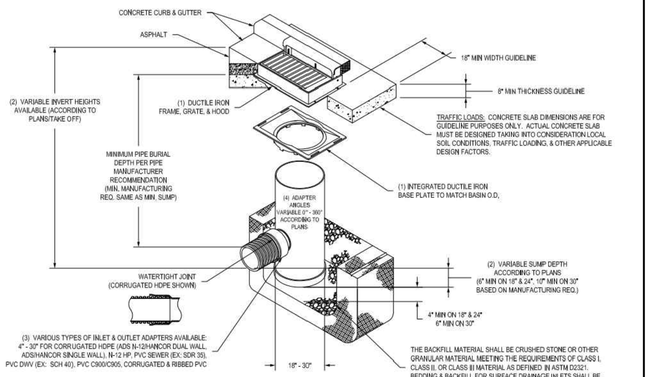
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
2 FT X 3 FT CURB INLET HIGH FLOW GRATE ASSEMBLY

DWG NO. 7002-110-047 REV D

**3 CURB INLET** NTS

## NYLOPLAST 2 FT X 3FT CURB INLET STRUCTURE: 30 _ _ AGR _ _X




1 - 18" - 30" FRAMES, GRATES, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
4 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
5 - ALL CURB INLET GRATE OPTIONS (DIAGONAL & HIGH FLOW) SHALL MEET H-20 LOAD RATING

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| DRAWN BY | EBC | MATERIAL | |
|---|---|---|---|
| DATE | 03-22-19 | | |
| REVISED BY | NMH | PROJECT NO./NAME | |
| DATE | 03-10-16 | | |
| DWG SIZE | A | SCALE 1:40 | SHEET 1 OF 1 |

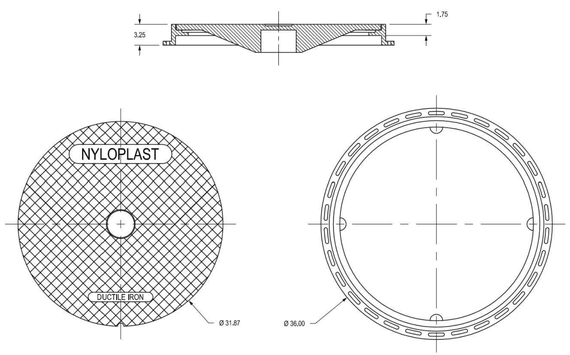
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
DRAIN BASIN WITH 2 FT X 3 FT CURB INLET QUICK SPEC INSTALLATION DETAIL

DWG NO. 7002-110-087 REV C

## 3099CGC

APPROX. WEIGHT WITH FRAME = 262.50 LBS




DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-026

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| DRAWN BY | EBC | MATERIAL | |
|---|---|---|---|
| DATE | 3-8-06 | DUCTILE IRON | |
| REVISED BY | EBC | PROJECT NO./NAME | |
| DATE | 3-13-19 | | |
| DWG SIZE | A | SCALE 1:16 | SHEET 1 OF 1 |

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
30 IN SOLID COVER ASSEMBLY - TYPE B

DWG NO. 7001-110-222 REV C

CONTRACTOR SHALL USE 24" DRAIN BASIN (DETAIL 2, SHEET C04.3) WITH MANHOLE TOP FOR STRUCTURE A1.

**4 MANHOLE LID** NTS

**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

REVISIONS:

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|---|---|---|
| | PRELIMINARY | 01/19/2022 |
| | BID | 02/07/2022 |
| | CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

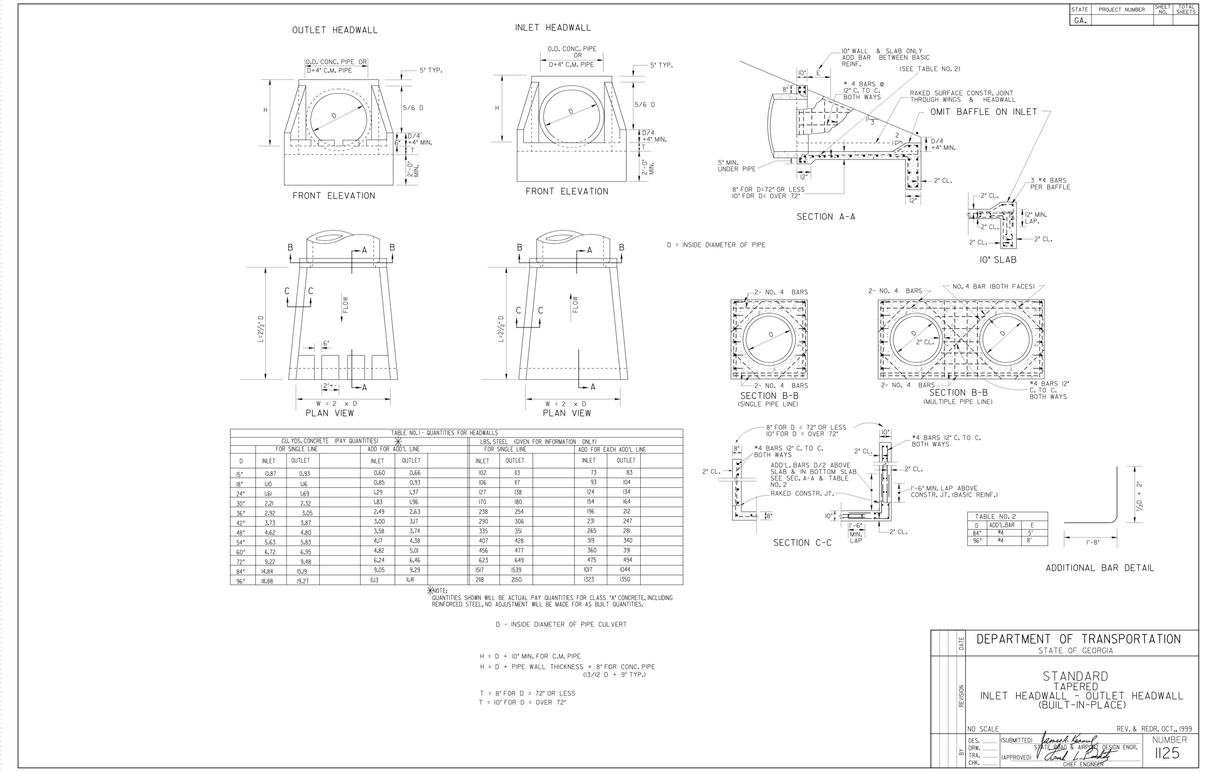
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETTIT
2/7/22

# UTILITY DETAILS III

C04.3

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS




**1 GDOT OUTLET HEADWALL** NTS

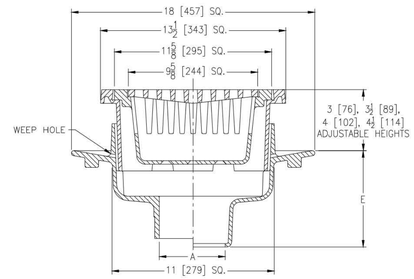
**SPECIFICATION SHEET**

TAG _____

**ZURN Z675**

13-1/2 [343] SQUARE EXTRA HEAVY-DUTY DRAIN

Dimensional Data (inches and [ mm ]) are Subject to Manufacturing Tolerances and Change Without Notice




| A Pipe Size In [mm] | Approx. Wt. Lbs. [kg] | Grate Open Area Sq. In. [cm²] |
|---|---|---|
| 3,4,6 [76,102,152] | 110 [50] | 72 [465] |

**ENGINEERING SPECIFICATION:** ZURN Z675
13-1/2" [343mm] Square top drain, Dura-Coated cast iron body with bottom outlet, seepage pan and vertically adjustable four position frame for Duresist extra heavy-duty loose slotted grate with suspended sediment bucket.

**OPTIONS** (Check/specify appropriate options)

**PIPE SIZE**
4 [102]
4 [102]
3,4,6 [76,102,152]
3,4,6 [76,102,152]
3,4 [76,102]

(Specify size/type) **OUTLET**
____ IC Inside Caulk
____ IG Inside Gasket
____ IP Threaded
____ NH No-Hub (IP w/ Z1040)
____ NL Neo-Loc

**'E' BODY HT. DIM.**
7-1/8 [181]
7-1/8 [181]
7-1/8 [181]
9-5/8 [244]
7-5/8 [194]

**PREFIXES**
____ Z D.C.C.I. Body and Duresist Top*

**SUFFIXES**
____ -AR Acid Resisting Epoxy Coated Cast Iron
____ -C Clamp Collar
____ -G Galvanized Cast Iron
____ -TS Top Secured with Slotted Screws
____ -VP Vandal-Proof Secured Top

* Regularly furnished unless otherwise specified.

**Zurn Industries, LLC** | **Specification Drainage Operation**
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292
**www.zurn.com**

Rev. E
Date: 09/27/17
C.N. No. 137942
Prod. | Dwg. No. Z675

**2 DUMPSTER DRAIN** NTS

**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

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| CONSTRUCTION | XX-XX-XX |

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PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

INGENIUM
Civil Engineering & Planning

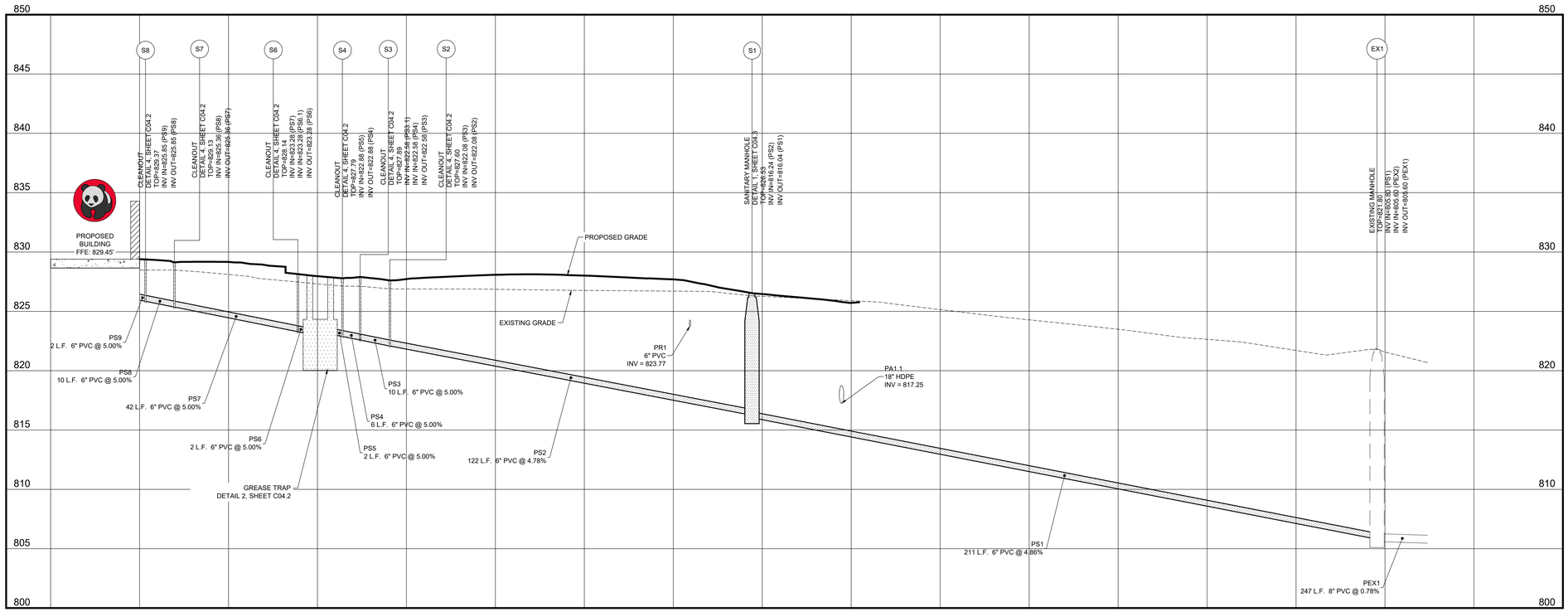
GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETTIT
2/7/22

UTILITY DETAILS III

C04.4

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

# SANITARY PROFILE S9-EX1

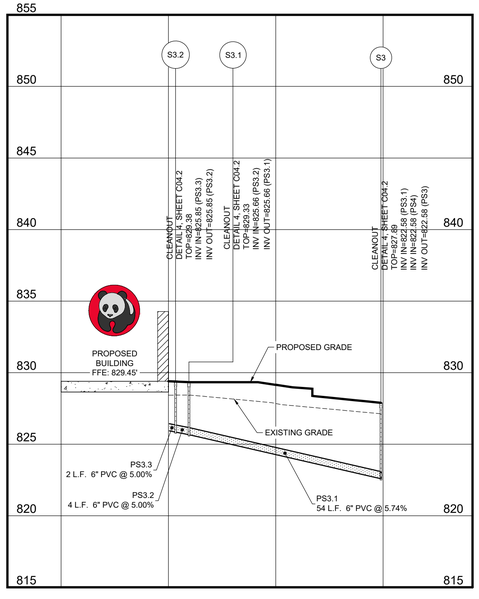



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

## PROFILE NOTES

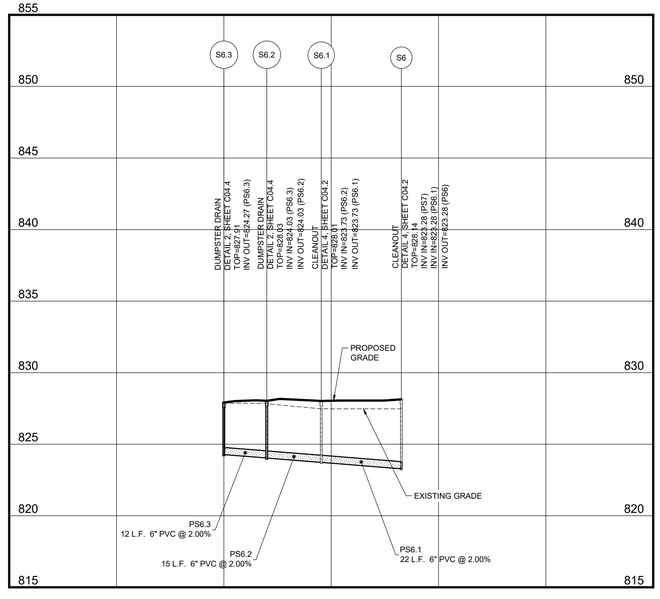
1. CONTROLLED BACK FILL TO BE PLACED IN 6" LOOSE LIFT AND COMPACTED TO 100% ASTM D698 PRIOR TO STORM AND SANITARY SEWER CONSTRUCTION. BACK FILL SHALL BE PLACED TO A MINIMUM OF ±2' ABOVE THE CROWN ELEVATION OF THE PIPES.
2. STORM DRAIN AND SANITARY SEWER LENGTHS ARE MEASURED FROM CENTER LINE OF STRUCTURE TO CENTERLINE OF STRUCTURE OR FACE OF HEADWALL.
3. ALL PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
4. ALL STORM DRAIN PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 5 ON SHEET C04.1 UNLESS SPECIFICALLY NOTED OTHERWISE.
5. ALL SANITARY SEWER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 5 ON SHEET C04.2 UNLESS SPECIFICALLY NOTED OTHERWISE.
6. UNFORESEEN SUBSURFACE CONDITIONS SHALL BE BROUGHT TO THE OWNER'S AND ENGINEER'S ATTENTION IMMEDIATELY IMPLEMENTATION OF CORRECTIVE BEDDING MEASURES WITHOUT THE OWNER'S APPROVAL SHALL BE AT THE CONTRACTOR'S OWN RISK AND AT NO ADDITIONAL COMPENSATION.
7. EXISTING GRADES SHOWN ARE APPROXIMATE AND DO NOT REFLECT TOP SOIL REMOVAL, CLEARING, AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL ASCERTAIN FOR HIMSELF THE EXTENT OF DISTURBANCE FOR THESE ACTIVITIES.
8. THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT PREPARED FOR THE OWNER FOR SUBSURFACE CONDITIONS. THE GEOTECHNICAL REPORT IS NOT A PART OF THE CONTRACT DOCUMENTS.
9. EXCAVATIONS FOR STRUCTURES SHALL BE TAKEN AS A TRENCHING EXCAVATION WITHOUT FURTHER COMPENSATION.
10. SEE SHEET C01.1 FOR GENERAL NOTES.

# SANITARY PROFILE S3.3-S3




HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

# SANITARY PROFILE S6.3-S6




HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

## SANITARY STRUCTURE TABLE

| STRUCTURE NAME | STRUCTURE TYPE | RIM ELEVATION | INVERT IN | INVERT OUT |
|---|---|---|---|---|
| EX1 | EXISTING MANHOLE | 821.80 | 805.80 (PS1)<br>805.60 (PEX2) | 805.60 (PEX1) |
| S1 | SANITARY MANHOLE<br>DETAIL 1, SHEET C04.3 | 826.53 | 816.24 (PS2) | 816.04 (PS1) |
| S2 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 827.60 | 822.08 (PS3) | 822.08 (PS2) |
| S3 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 827.89 | 822.58 (PS1.1)<br>822.58 (PS4) | 822.58 (PS3) |
| S3.1 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 829.33 | 825.66 (PS3.2) | 825.66 (PS3.1) |
| S3.2 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 829.38 | 825.85 (PS3.3) | 825.85 (PS3.2) |
| S3.3 | BUILDING STUB-OUT | 829.40 | | 825.95 (PS3.3) |
| S4 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 827.79 | 822.88 (PS5) | 822.88 (PS4) |
| S5 | GREASE TRAP<br>DETAIL 2, SHEET C04.2 | 827.95 | | |
| S5-IN | GREASE TRAP STUB-IN | 828.08 | 823.18 (PS6) | |
| S5-OUT | GREASE TRAP STUB-OUT | 827.83 | | 822.98 (PS5) |
| S6 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 828.14 | 823.28 (PS7)<br>823.28 (PS6.1) | 823.28 (PS6) |
| S6.1 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 828.01 | 823.73 (PS6.2) | 823.73 (PS6.1) |
| S6.2 | DUMPSTER DRAIN<br>DETAIL 2, SHEET C04.4 | 828.03 | 824.03 (PS6.3) | 824.03 (PS6.2) |
| S6.3 | DUMPSTER DRAIN<br>DETAIL 2, SHEET C04.4 | 827.91 | | 824.27 (PS6.3) |
| S7 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 829.13 | 825.36 (PS8) | 825.36 (PS7) |
| S8 | CLEANOUT<br>DETAIL 4, SHEET C04.2 | 829.37 | 825.85 (PS9) | 825.85 (PS8) |
| S9 | BUILDING STUB-OUT | 829.40 | | 825.95 (PS9) |

## SANITARY PIPE TABLE

| NAME | SIZE | LENGTH | SLOPE | MATERIAL |
|---|---|---|---|---|
| PEX1 | 8" | 247' | 0.78% | PVC |
| PEX2 | 8" | 271' | 0.54% | PVC |
| PS1 | 6" | 211' | 4.86% | PVC |
| PS2 | 6" | 122' | 4.78% | PVC |
| PS3 | 6" | 10' | 5.00% | PVC |
| PS3.1 | 6" | 54' | 5.74% | PVC |
| PS3.2 | 6" | 4' | 5.00% | PVC |
| PS3.3 | 6" | 2' | 5.00% | PVC |
| PS4 | 6" | 6' | 5.00% | PVC |
| PS5 | 6" | 2' | 5.00% | PVC |
| PS6 | 6" | 2' | 5.00% | PVC |
| PS6.1 | 6" | 22' | 2.00% | PVC |
| PS6.2 | 6" | 15' | 2.00% | PVC |
| PS6.3 | 6" | 12' | 2.00% | PVC |
| PS7 | 6" | 42' | 5.00% | PVC |
| PS8 | 6" | 10' | 5.00% | PVC |
| PS9 | 6" | 2' | 5.00% | PVC |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ROSEMEAD, CALIFORNIA 91770
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DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

INGENIUM
Civil Engineering & Planning

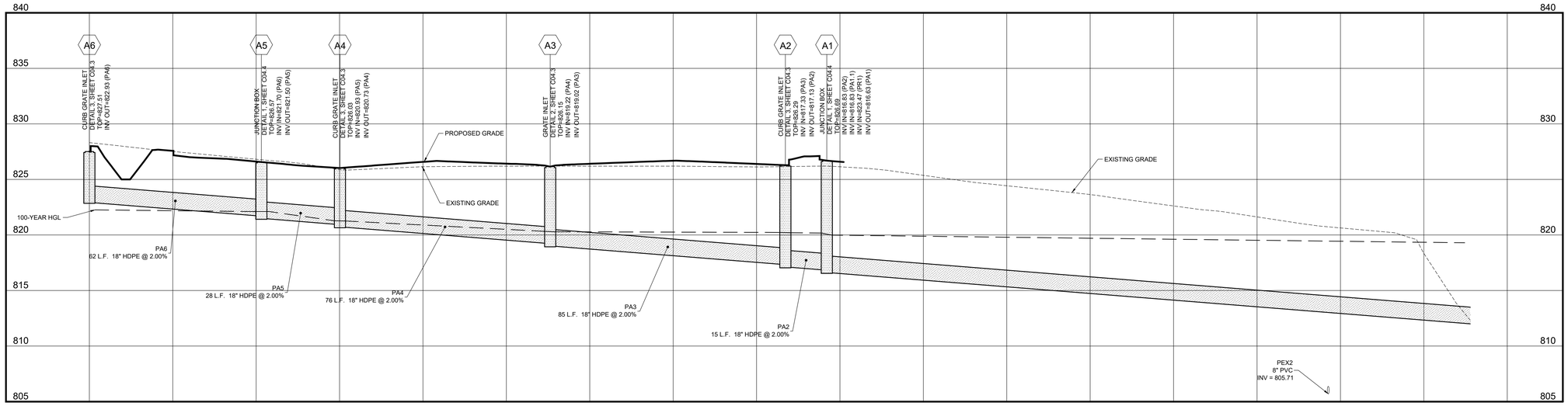
GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

PROFILES I

C04.5

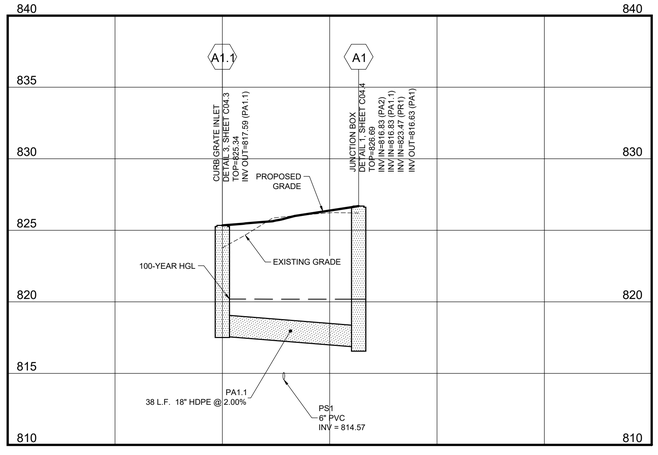
TRUE WARM & WELCOME 2300

# STORM PROFILE A6-A0




HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

# STORM PROFILE




HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

| STORM STRUCTURE TABLE | | | | |
|---|---|---|---|---|
| STRUCTURE NAME | STRUCTURE TYPE | RIM ELEVATION | INVERT IN | INVERT OUT |
| A0 | GDOT OUTLET HEADWALL DETAIL 1, SHEET C04.4 | 814.06 | 812.00 (PA1) | |
| A1 | JUNCTION BOX DETAIL 1, SHEET C04.4 | 826.69 | 816.83 (PA2)<br>816.83 (PA1.1)<br>823.47 (PR1) | 816.63 (PA1) |
| A1.1 | CURB GRATE INLET DETAIL 3, SHEET C04.3 | 825.34 | | 817.59 (PA1.1) |
| A2 | CURB GRATE INLET DETAIL 3, SHEET C04.3 | 826.29 | 817.33 (PA3) | 817.13 (PA2) |
| A3 | GRATE INLET DETAIL 2, SHEET C04.3 | 826.15 | 819.22 (PA4) | 819.02 (PA3) |
| A4 | CURB GRATE INLET DETAIL 3, SHEET C04.3 | 826.03 | 820.93 (PA5) | 820.73 (PA4) |
| A5 | JUNCTION BOX DETAIL 1, SHEET C04.4 | 826.57 | 821.70 (PA6) | 821.50 (PA5) |
| A6 | CURB GRATE INLET DETAIL 3, SHEET C04.3 | 827.51 | | 822.93 (PA6) |

| STORM PIPE TABLE | | | | |
|---|---|---|---|---|
| NAME | SIZE | LENGTH | SLOPE | MATERIAL |
| PA1 | 18" | 231' | 2.00% | HDPE |
| PA1.1 | 18" | 38' | 2.00% | HDPE |
| PA2 | 18" | 15' | 2.00% | HDPE |
| PA3 | 18" | 85' | 2.00% | HDPE |
| PA4 | 18" | 76' | 2.00% | HDPE |
| PA5 | 18" | 28' | 2.00% | HDPE |
| PA6 | 18" | 62' | 2.00% | HDPE |
| PR1 | 6" | 116' | 1.00% | PVC |
| PR2 | 6" | 54' | 1.00% | PVC |
| PR2.1 | 6" | 9' | 3.34% | PVC |
| PR3 | 6" | 21' | 1.00% | PVC |
| PR4 | 6" | 9' | 0.90% | PVC |

## PROFILE NOTES

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TELEPHONE: 626.799.9898
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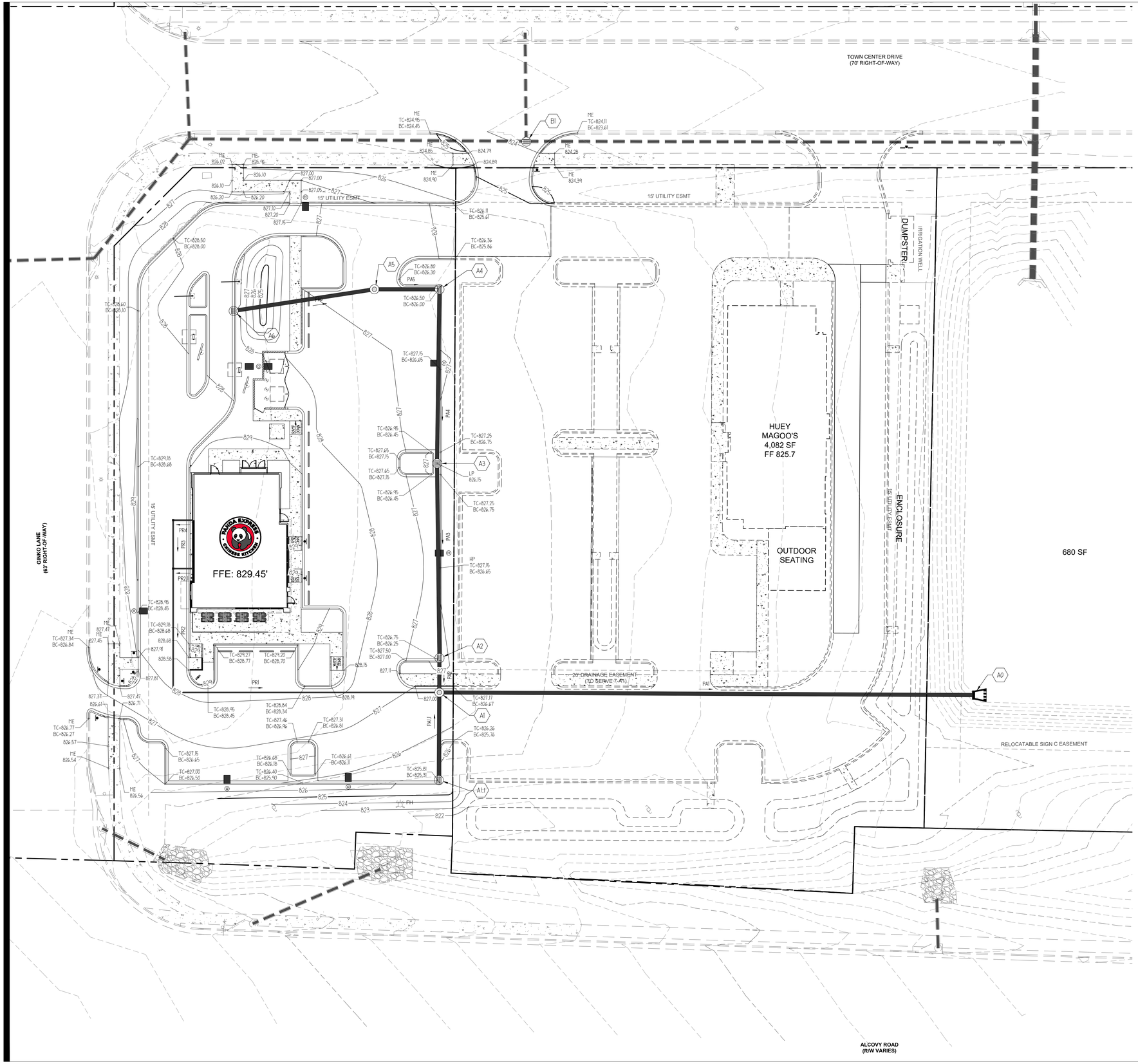
INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE26748
JEREMY M. PETITT
2/7/22

PROFILES II

C04.6

TRUE WARM & WELCOME 2300


TOWN CENTER DRIVE
(70' RIGHT-OF-WAY)
GINKO LANE
(63' RIGHT-OF-WAY)
ALCOVY ROAD
(R/W VARIES)
15' UTILITY ESMT
20' DRAINAGE EASEMENT
(TO SERVE 7-ATL)
RELOCATABLE SIGN C EASEMENT
HUEY
MAGOO'S
4,082 SF
FF 825.7
OUTDOOR
SEATING
680 SF
ENCLOSURE
DUMPSTER
IRRIGATION WELL
FFE: 829.45'
PANDA EXPRESS
CHINESE KITCHEN
A0
A1
A1.1
A2
A3
A4
A5
A6
B1
PA1
PA1.1
PA2
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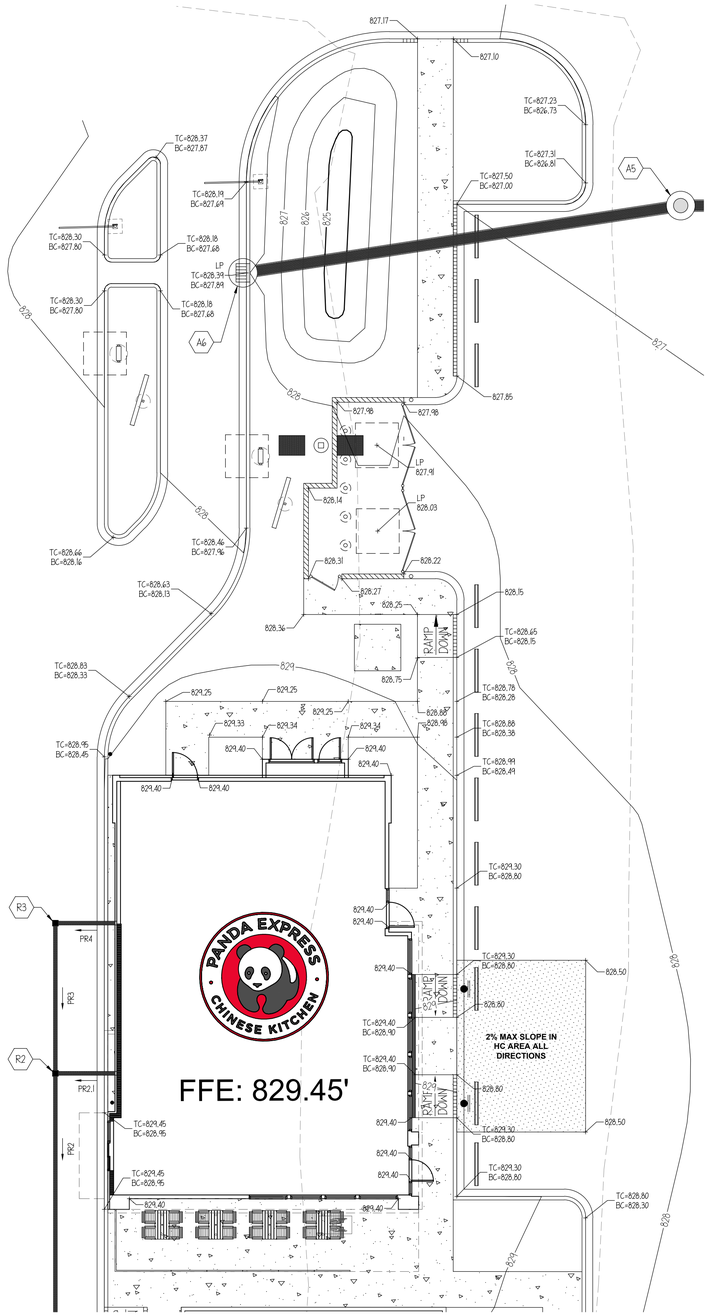
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TC=828.64
BC=828.16
TC=828.63
BC=828.13
TC=828.83
BC=828.33
829
829.25
829.25
829.25
828.87
828.98
829.33
829.34
829.34
TC=828.78
BC=828.28
TC=828.86
BC=828.36
TC=828.95
BC=828.45
829.40
829.40
829.40
829.40
TC=828.91
BC=828.41
TC=829.30
BC=828.80
R3
PR4
829.40
829.40
TC=829.30
BC=828.80
828.50
PR3
R2
PR2.1
TC=829.40
BC=828.90
TC=829.40
BC=828.90
RAMP DOWN
828.80
2% MAX SLOPE IN HC AREA ALL DIRECTIONS
FFE: 829.45'
829.40
TC=829.30
BC=828.80
828.50
TC=829.45
BC=828.95
PR2
TC=829.45
BC=828.95
829.40
829.40
TC=829.30
BC=828.80
829.40
829.40
TC=828.80
BC=828.30
828
828
828

THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPCP) IS PROVIDED FOR THE CONTRACTOR'S USE. IF THE CONTRACTOR ELECTS TO ALTER THE STAGE CONSTRUCTION FROM THAT SHOWN ON THE PLANS, AND THE ENGINEER APPROVES THE REQUEST, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVISE THE ESPCP TO REFLECT ALL CHANGES IN STAGING. THIS WILL ALSO INCLUDE ANY REVISIONS TO EROSION AND SEDIMENTATION CONTROL ITEM QUANTITIES. MAJOR MODIFICATION OR DELETION OF SPECIFIED STRUCTURAL BMP'S THAT ARE SPECIFIED IN THE ESPCP WILL REQUIRE A FORMAL REVISION OF THE ESPCP AND THE SIGNATURE OF A GSWCC LEVEL II DESIGN PROFESSIONAL. ADDITIONAL BMP'S MAY BE ADDED AS DIRECTED BY THE ENGINEER.

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS:
SILT FENCE SHOULD NEVER BE CONSTRUCTED WITHOUT J-HOOKS OR SPURS. THE SILT FENCE SHOULD TURN BACK INTO THE FILL OR SLOPE TO CREATE SMALL POCKETS THAT TRAP SILT AND FORCE STORMWATER TO FLOW THROUGH THE SILT FENCE. THIS TECHNIQUE OR CONFIGURATION IS COMMONLY REFERRED TO AS J-HOOKS OR SPURS. THE J-HOOKS OR SPURS SHALL BE INSTALLED ON ALL SILT FENCES THAT ARE LOCATED AROUND THE PERIMETER OF THE PROJECT AND ALONG THE TOE OF EMBANKMENTS OR SLOPES. THE J-HOOKS AND SPURS SHALL BE SPACED IN ACCORDANCE WITH THE TYPICAL LOCATION DETAILS FOR SILT FENCES / BALED STRAW. SPACING FOR J-HOOKS OR SPURS SHALL NEVER BE LESS THAN 50 FEET EXCEPT AS NOTED. SILT FENCES THAT ARE NEAR THE OUTLET OF CULVERTS, CROSS DRAINS, AND STORM DRAINS SHALL HAVE A MINIMUM OF 3 J-HOOKS OR SPURS ON BOTH SIDES OF THE STRUCTURE AT SPACING NOT TO EXCEED 30 FEET. J-HOOKS OR SPURS SHALL BE PAID FOR AS SILT FENCE ITEMS PER FOOT. ALL COSTS AND OTHER INCIDENTAL ITEMS ARE INCLUDED IN COST OF INSTALLING AND MAINTAINING THE SILT FENCE.

MAINTENANCE AND STABILIZATION MEASURES:
ALL STRUCTURAL BMP'S SHALL BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL SEDIMENT CONTROL DEVICES (EXCEPT SEDIMENT BASINS) INSTALLED ON A PROJECT SHALL AS A MINIMUM, BE CLEANED OF SEDIMENT WHEN ONE-HALF THE CAPACITY, BY HEIGHT, DEPTH, OR VOLUME HAS BEEN MEASURED. SEDIMENT BASINS SHALL BE CLEANED OF SEDIMENT WHEN ONE-THIRD THE CAPACITY BY VOLUME HAS BEEN REACHED.

AS A MINIMUM THE CONTRACTOR SHALL COMPLETE THE PERMANENT GRASSING, OR TEMPORARY GRASSING, OR MULCHING, AS APPROPRIATE AND IN ACCORDANCE WITH CONTRACT DOCUMENTS, ON ALL CUT AND FILL SLOPES ON A WEEKLY BASIS DURING CONSTRUCTION OPERATIONS. FOR PROJECTS WITH A TOTAL OF 3 ACRES OR LESS OF GRASSING MAY BE TREATED EVERY TWO WEEKS. WHEN CONDITIONS WARRANT, THE ENGINEER MAY REQUIRE MORE FREQUENT INTERVALS BETWEEN WORK. IT IS EXTREMELY IMPORTANT TO GET A STABILIZING COVER IN PLACE, WHETHER IT IS MULCH, TEMPORARY GRASS OR PERMANENT GRASS. ADEQUATE MULCH IS A MUST.

WHEN GRADING OPERATIONS OR OTHER SOIL DISTURBING ACTIVITIES HAVE BEEN SUSPENDED, FOR WHATEVER REASON, THE CONTRACTOR SHALL PROMPTLY PERFORM NEEDED GRASSING WORK AND/OR EROSION CONTROL WORK AS SHOWN IN THE PLANS, SUBMITTED BY THE CONTRACTOR OR AS DIRECTED BY THE ENGINEER.

TEMPORARY GRASS SHALL BE USED WHEN REQUIRED BY THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE ENGINEER TO CONTROL EROSION IN AREAS WHERE PERMANENT GRASSING CANNOT BE PLANTED. TEMPORARY GRASS SHALL BE USED IN AREAS MUST BE PROTECTED FOR LONGER THAN MULCH IS EXPECTED TO LAST WHICH IS 60 CALENDAR DAYS. AFTER 60 CALENDAR DAYS, AREAS WITH ONLY MULCH SHALL BE PLANTED WITH TEMPORARY GRASS AND MULCHED AGAIN.

MULCH SHALL BE APPLIED AND UNIFORMLY SPREAD IN ACCORDANCE WITH CONTRACT DOCUMENTS.

WHEN GRASSING OPERATIONS BEGIN, MULCH SHALL BE LEFT IN PLACE AND PLOWED INTO THE SOIL DURING THE PROCESS OF SEEDBED PREPARATION, THEREBY BECOMING BENEFICIAL PLANT FOOD FOR THE NEWLY PLANTED GRASS. MULCH REQUIRED FOR PROTECTION OF NEWLY PLANTED GRASS SHALL BE IN ADDITION TO THE MULCH SPECIFIED HEREIN.

WASTE DISPOSAL:
SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM WEEKLY AND MORE OFTEN AS NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE PASTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

ALL INSPECTIONS SHALL BE DOCUMENTED ON FORM DOT-EC-1.

DAILY:

DAILY INSPECTIONS SHALL BE CONDUCTED BY THE WORKSITE EROSION CONTROL SUPERVISOR (WECS) OR QUALIFIED PERSONNEL ON THE FOLLOWING AREAS:

A. PETROLEUM PRODUCT STORAGE, USAGE AND HANDLING AREAS
B. ALL LOCATIONS WHERE VEHICLES ENTER/EXIT THE SITE
C. MEASURE RAINFALL ONCE EACH TWENTY FOUR HOUR PERIOD AT THE SITE

WEEKLY AND AFTER RAINFALL EVENTS:

THE FOLLOWING AREAS SHALL BE INSPECTED BY THE WECS OR QUALIFIED PERSONNEL EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCHES OR GREATER:

A. DISTURBED AREAS NOT PERMANENTLY STABILIZED
B. MATERIAL STORAGE AREAS
C. STRUCTURAL CONTROL MEASURES (BMP'S)

WITHIN 7 CALENDAR DAYS AFTER THE INITIAL INSTALLATION OF THE EROSION CONTROL DEVICES REQUIRED BY THE EROSION CONTROL PLAN, THE ENGINEER SHALL INSPECT THE INSTALLATION AND CONDITION OF EACH DEVICE. THIS INSPECTION SHALL BE PERFORMED FOR EACH STAGE OF CONSTRUCTION WHEN NEW DEVICES ARE INSTALLED. ALL DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE CONTRACTOR AND CORRECTIONS SHALL BE MADE WITHIN TWO BUSINESS DAYS.

MONTHLY:

ONCE PER MONTH, THE QUALIFIED INSPECTOR SHALL INSPECT ALL AREAS WHERE FINAL STABILIZATION HAS BEEN COMPLETED. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF SEDIMENTS OR POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND OR RECEIVING WATERS. ANY EROSION CONTROL DEVICES THAT REMAIN IN PLACE SHALL BE INSPECTED TO VERIFY THE MAINTENANCE STATUS AND THAT THE DEVICES ARE FUNCTIONING PROPERLY.

THESE INSPECTIONS SHALL CONTINUE UNTIL THE NOTICE OF TERMINATION IS SUBMITTED.

FAILURE TO PERFORM INSPECTIONS AS REQUIRED BY THE CONTRACT DOCUMENTS AND THE NPDES PERMIT SHALL RESULT IN THE CESSATION OF ALL CONSTRUCTION ACTIVITIES WITH THE EXCEPTION OF TRAFFIC CONTROL AND EROSION CONTROL. CONTINUED FAILURE TO PERFORM INSPECTIONS SHALL RESULT IN NON-REFUNDABLE DEDUCTIONS AS SPECIFIED IN THE CONTRACT DOCUMENTS.

NON-STORM WATER DISCHARGES AS DEFINED IN PART III.A.2 OF THE NPDES PERMIT WILL BE IDENTIFIED AFTER CONSTRUCTION HAS COMMENCED AND SHALL BE SUBJECT TO THE SAME REQUIREMENTS AS STORM WATER DISCHARGES AS REQUIRED BY THE GEORGIA EROSION AND SEDIMENTATION CONTROL ACT, THE NPDES PERMIT, THE CLEAN WATER ACT, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, DEPARTMENT STANDARDS, AND CONTRACT DOCUMENTS.

PETROLEUM SPILLS AND LEAKS:
LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

MATERIALS & EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-4262675.

FOR SPILLS THAT OF AN UNKNOWN AMOUNT. THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITH 24 HOURS AT 1-800-426-2675.

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM PRODUCTS (INCLUDING ANY PETROLEUM CAPACITY OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

OTHER CONTROLS:
THE CONTRACTOR SHALL FOLLOW THIS ESPCP AND ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

SEDIMENT BASINS:
THE DISTURBED AREA WITHIN THE DRAINAGE AREA IS 0.91 ACRES. THE DISTURBANCE ACTIVITIES CONSIST OF SITE GRADING AND PAVING FOR THE CONSTRUCTION OF A MEDICAL OFFICE WITH ASSOCIATED PARKING AND UTILITIES. BMP'S AS SHOWN ON THE EROSION CONTROL PLANS WILL BE ADEQUATE TO CONTROL SEDIMENT RUNOFF AT THIS LOCATION. EXCAVATED INLET SEDIMENT TRAPS WILL BE UTILIZED TO CONTROL THE SEDIMENT RUNOFF.

STREAM BUFFER ENCROACHMENT:
STREAM BUFFERS ARE NOT IMPACTED BY THIS PROJECT.

COMPREHENSIVE MONITORING PLAN (CMP) GENERAL NOTES:
THIS PROJECT HAS A TOTAL SIZE OF 1.00. THE SURFACE WATER DRAINAGE AREA FOR THE OUTFALL TO BE MONITORED HAS A DRAINAGE AREA OF APPROXIMATELY ## SQUARE MILES. THE RECEIVING WATER FOR THIS OUTFALL IS A TRIBUTARY OF THE DRIED INDIAN CREEK WHICH EVENTUALLY OUTFALLS TO THE YELLOW RIVER. THE NTU VALUE SELECTED FROM APPENDIX B FOR THE ABOVE NOTED FACILITY AND THE SURFACE WATER DRAINAGE AREA IS 75 NTU.

COMPREHENSIVE MONITORING PLAN (CMP) SAMPLING METHODS AND PROCEDURES REPRESENTATIVE SAMPLING ON LINEAR PROJECT:
RECEIVING WATER SAMPLES AND STORM WATER DISCHARGE SAMPLES WILL BE COLLECTED BY GRAB SAMPLING AS SPECIFIED IN PART V.A.3 OF THE PERMIT. ALL GRAB SAMPLES WILL BE COLLECTED USING THE FOLLOWING METHODS AND PROCEDURES:

RECEIVING WATER SAMPLING:

MANUAL SAMPLING:
SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIME AS STATED IN PART IV.D. 5. D. OF THE PERMIT. SAMPLING WILL BEGIN AT THE DESIGNATED REPRESENTATIVE RECEIVING WATER AT THE DOWNSTREAM LOCATION FIRST. THE SAMPLE WILL BE TAKEN AS FAR DOWNSTREAM (WITHIN THE PROJECT RIGHT OF WAY) OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE POINT, AND UPSTREAM OF ANY ADDITIONAL DISCHARGES NOT ASSOCIATED WITH THE PROJECT. THE SAMPLE WILL BE TAKEN IN THE CENTER OF THE RECEIVING WATER AT A POINT WHERE MIXING OF THE RECEIVING WATERS AND THE PROJECT OUTFALL HAS OCCURRED AND PROVIDED A HOMOGENOUS SAMPLE. IN RECEIVING WATERS WHERE ACCESS TO THE CENTER OF THE RECEIVING WATERS IS NOT PRACTICAL, SEVERAL SAMPLES FROM ACROSS THE RECEIVING WATERS WILL BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES WILL BE USED FOR THE UPSTREAM VALUE. A LARGE MOUTH, CLEAN, GLASS OR PLASTIC JAR/BOTTLE, LABELED WITH PROJECT NUMBER AND LOCATION WILL BE USED TO COLLECT THE SAMPLE. THE SAMPLE CONTAINER WILL BE HELD SUCH THAT THE OPENING FACES UPSTREAM. ONCE THE SAMPLE JAR/BOTTLE IS FULL AND CAPPED, IT WILL BE TRANSPORTED TO THE LOCATION WHERE THE TURBIDITY TESTING WILL BE CONDUCTED. SAMPLES MAY BE ANALYZED AT THE SITE WITH PROPERLY CALIBRATED PORTABLE TURBIDIMETERS. ALL TURBIDITY TESTS WILL BE CONDUCTED IMMEDIATELY BUT IN NO CASE, LATER THAN 48 HOURS AFTER THE TIME THE SAMPLE WAS OBTAINED.

UPSTREAM SAMPLES WILL BE TAKEN AFTER DOWNSTREAM SAMPLES HAVE BEEN ACQUIRED. THE SAMPLE WILL BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PROJECT (WITHIN THE PROJECT RIGHT OF WAY). THE SAMPLE WILL BE TAKEN IN THE CENTER OF THE RECEIVING WATER. ON RECEIVING WATERS WHERE ACCESS TO THE CENTER OF THE RECEIVING WATERS IS NOT PRACTICAL, SEVERAL SAMPLES FROM ACROSS THE RECEIVING WATERS WILL BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES WILL BE USED FOR THE UPSTREAM VALUE. A LARGE MOUTH, CLEAN, GLASS OR PLASTIC JAR, LABELED WITH PROJECT NUMBER AND LOCATION WILL BE USED TO COLLECT THE SAMPLE. THE SAMPLE CONTAINER WILL BE HELD SUCH THAT THE OPENING FACES UPSTREAM. ONCE THE SAMPLE JAR/BOTTLE IS FULL AND CAPPED, IT WILL BE TRANSPORTED TO THE LOCATION WHERE THE TURBIDITY TESTING WILL BE CONDUCTED. ALL TURBIDITY TESTS WILL BE CONDUCTED IMMEDIATELY BUT IN NO CASE, LATER THAN 48 HOURS AFTER THE TIME THE SAMPLE WAS OBTAINED.

AUTOMATIC SAMPLING:
SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIMES AS SPECIFIED IN PART IV.D. 5. D. OF THE PERMIT. AUTOMATIC SAMPLING CAN BE ACCOMPLISHED AT BOTH UPSTREAM AND DOWNSTREAM SIMULTANEOUSLY BY USING A SAMPLING DEVICE SIMILAR TO THE ISCO MODEL 3700 OR 6700. THESE DEVICES CAN BE TRIGGERED BY FLOW METERS OR RAIN GAGES TO OBTAIN THE REQUIRED SAMPLES. THIS DETERMINATION WILL BE MADE ON A PROJECT BY PROJECT BASIS. THE PROBE FOR THE AUTOMATIC SAMPLER WILL BE PLACED IN THE CENTER OF THE RECEIVING WATER AT A POINT AS FAR DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE POINT AND UPSTREAM OF ANY ADDITIONAL DISCHARGES NOT ASSOCIATED WITH THE PROJECT. SAMPLES WILL REMAIN IN THE AUTOMATIC SAMPLER UNTIL THE NEXT BUSINESS DAY, WHEN THEY WILL BE COLLECTED AND TESTED.

THE PROBE FOR UPSTREAM SAMPLING WILL BE POSITIONED IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE POINT FROM THE PROJECT. THE PROBE WILL BE PLACED IN THE CENTER OF THE RECEIVING WATER. SAMPLES WILL REMAIN IN THE AUTOMATIC SAMPLER UNTIL THE NEXT BUSINESS DAY, WHEN THEY WILL BE COLLECTED AND TESTED.

ALL TURBIDITY TESTS SHALL BE DONE IN ACCORDANCE WITH 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. TURBIDITY RESULTS WILL BE RECORDED AND REPORTED TO EPD IN ACCORDANCE WITH PART IV.E OF THE PERMIT.

OUTFALL SAMPLING:

MANUAL SAMPLING:
SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIME AS STATED IN PART IV.D. 5. D. OF THE PERMIT. SAMPLING WILL OCCUR AT THE DESIGNATED REPRESENTATIVE OUTFALL. THE SAMPLE WILL BE TAKEN IN THE CENTER OF THE OUTFALL CHANNEL. A LARGE MOUTH, CLEAN, GLASS OR PLASTIC JAR/BOTTLE, LABELED WITH PROJECT NUMBER AND LOCATION WILL BE USED TO COLLECT THE SAMPLE. THE SAMPLE CONTAINER WILL BE HELD SUCH THAT THE OPENING FACES UPSTREAM. ONCE THE SAMPLE JAR/BOTTLE IS FULL AND CAPPED, IT WILL BE TRANSPORTED TO THE LOCATION WHERE THE TURBIDITY TESTING WILL BE CONDUCTED. SAMPLES MAY BE ANALYZED AT THE SITE WITH PROPERLY CALIBRATED PORTABLE TURBIDIMETERS. ALL TURBIDITY TESTS WILL BE CONDUCTED IMMEDIATELY BUT IN NO CASE, LATER THAN 48 HOURS AFTER THE TIME THE SAMPLE WAS OBTAINED.

AUTOMATIC SAMPLING:
SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIMES AS SPECIFIED IN PART IV.D. 5. D. OF THE PERMIT. AUTOMATIC SAMPLING CAN BE ACCOMPLISHED USING A SAMPLING DEVICE SIMILAR TO THE ISCO MODEL 3700 OR 6700. THESE DEVICES CAN BE TRIGGERED BY FLOW METERS OR RAIN GAGES TO OBTAIN THE REQUIRED SAMPLES. THIS DETERMINATION WILL BE MADE ON A PROJECT BY PROJECT BASIS. THE PROBE FOR THE AUTOMATIC SAMPLER WILL BE PLACED IN THE CENTER OF THE OUTFALL CHANNEL. SAMPLES WILL REMAIN IN THE AUTOMATIC SAMPLER UNTIL THE NEXT BUSINESS DAY, WHEN THEY WILL BE COLLECTED AND TESTED.

TESTING:
ALL TURBIDITY TESTS SHALL BE DONE IN ACCORDANCE WITH 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. TURBIDITY RESULTS WILL BE RECORDED AND REPORTED TO EPD IN ACCORDANCE WITH PART IV.E OF THE PERMIT.

1. A COMPREHENSIVE MONITORING PLAN (CMP) MUST BE IMPLEMENTED AS PART OF THE PROJECT'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN IN COMPLIANCE WITH THE EPD'S GENERAL PERMIT NO. 100003 (NPDES) PRIOR TO CONDUCTING ANY CONSTRUCTION ACTIVITY.

2. THIS CMP HAS BEEN PREPARED BY A DESIGN PROFESSIONAL IN ACCORDANCE WITH THE PERMIT.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION (GSWCC) AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE MINIMUM OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100003.

3. FOR LINEAR CONSTRUCTION, THE MONITORING MAY BE PHASED SO THAT A MONITOR IS ALWAYS DOWNSTREAM OF ACTIVE CONSTRUCTION. MONITORING OF OUTFALLS (DRAINAGE DITCHES) AND STREAMS IS NOT REQUIRED FOR INACTIVE PHASES OR FOR AREAS THAT HAVE UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THAT PHASE HAVE CEASED.

4. FOR MONITORING OUTFALLS, THE DISTURBED AREA ASSOCIATED WITH THIS PROJECT IS 1.25 ACRES. THE RECEIVING STREAMS ARE NOT TROUT STREAMS. THE SURFACE AREA OF DRAINAGE AREAS FOR THE OUTFALL TO BE MONITORED IS 0.60SQUARE MILES.

5. MONITORING SYSTEMS
FOR THE MONITORING OF THIS PROJECT, ONE MONITORING SITE HAS BEEN SELECTED TO FACILITATE MONITORING DURING VARIOUS STAGES OF CONSTRUCTION. RUNOFF FROM THIS PROJECT DISCHARGES TO AN EXISTING DETENTION POND.

6. COMPLIANCE WITH THE EPD'S NPDES GAR 100001 PERMIT
THIS PROJECT IS EXPECTED TO DISTURB APPROXIMATELY 0.91 ACRES OF LAND. THIS IN TURN REQUIRES THE CONTRACTOR AND OWNER TO COMPLY WITH THE NPDES GAR 100001 PERMIT. THE CONTRACTOR HAS TO SIGN INSPECTION AS REQUIRED BY THE PERMIT AND DAILY RAINFALL MEASUREMENTS AS STATED IN THE EROSION CONTROL NOTES SHOWN ON THIS SHEET. THE CONTRACTOR WILL EMPLOY THE SERVICES OF AND ENVIRONMENTAL ENGINEER APPROPRIATE FOR THE OWNER TO BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE COMPREHENSIVE MONITORING PLAN (CMP), THE STORM WATER FLOW MONITORING, THE 14-DAY AND MONTHLY INSPECTION OF THE BMPS, COLLECTION OF RECORDS, AND THE REQUIRED REPORT PREPARATION AND SUBMITTAL. REPORTS ARE REQUIRED FOR EVERY MONTH DURING WHICH SAMPLES ARE TAKEN AND IN ACCORDANCE WITH THIS PERMIT. AS NOTED ABOVE, CERTAIN PARTS OF THE COMPLIANCE HAVE BEEN ASSIGNED TO THE CONTRACTOR AND CERTAIN PARTS HAVE BEEN ASSIGNED TO THE SUB-CONTRACTED ENVIRONMENTAL ENGINEER.

SINCE THE DESIGN, INSTALLATION AND MAINTENANCE OF THE BMPS PRESENTS A COMPLETE DEFENSE AGAINST ACTIONS BY THE EPD FOR VIOLATIONS, AND THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE BMPS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES IMPOSED BY THE EPD AGAINST THE PROJECT, AND THE OWNER SHALL BE HELD HARMLESS. THE ENVIRONMENTAL ENGINEER IS ALL RESPONSIBLE FOR SUGGESTING REVISIONS AND IMPROVEMENTS TO THE BMPS. THE DESIGN PROFESSIONAL SHALL INCLUDE THE INSTALLATION OF THE BMPS WITHIN SEVEN DAYS AFTER CONSTRUCTION ACTIVITIES BEGIN AS REQUIRED BY THE PERMIT.

7. COLLECTION AND ANALYSIS OF STORM WATER SAMPLES
ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH THE METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136, ENTITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND OTHER GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JAR SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

MANUAL OR AUTOMATIC SAMPLING MAY BE UTILIZED. (IF AUTOMATIC SAMPLERS ARE USED, USE ONLY THOSE SAMPLERS APPROVED FOR USE BY THE GEORGIA EPD.) SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COLLECTED.

SAMPLING AND ANALYSIS OF THE RECEIVING WATERS OR OUTFALLS BEYOND THE MINIMUM FREQUENCY REQUIRED BY THE PERMIT MUST BE REPORTED TO THE EPD AS SPECIFIED IN SECTION IV.E OF THE PERMIT.

SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT MUST BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATERS AND/OR OUTFALLS USING THE FOLLOWING GUIDELINES:

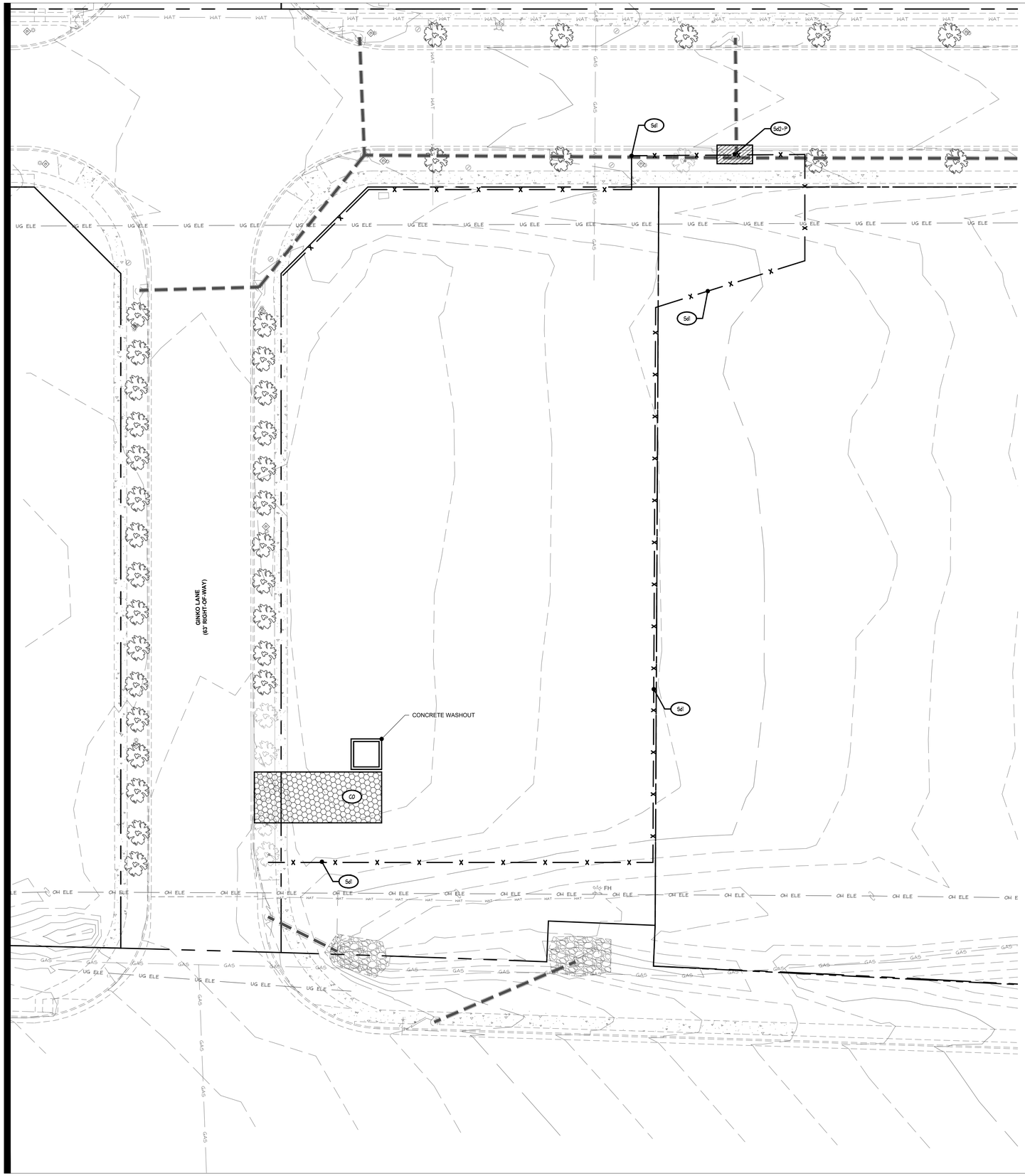
A. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE CONSTRUCTION PROJECT, BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.
B. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE CONSTRUCTION PROJECT, BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.
C. IDEALLY, THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
D. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER OR OUTFALL CHANNEL.
E. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM
F. THE SAMPLES SHOULD BE KEPT FREE OF FLOATING DEBRIS.

8. PHASING OF SAMPLING AREA
IF THE CONTRACTOR CHOOSES TO USE AUTOMATED SAMPLE COLLECTION EQUIPMENT, THE CONTRACTOR'S APPROVED ENVIRONMENTAL ENGINEER SHALL PROVIDE A MINIMUM OF TEN SAMPLING ASSEMBLIES TO WORK IN A SEQUENCE SO AS NOT TO DELAY THE CONSTRUCTION OF THE PROJECT. IN A TYPICAL AREA, THE CONTRACTOR SHALL ARRANGE TO HAVE THE SAMPLE COLLECTORS INSTALLED TO MONITOR THE AREA THAT WAS JUST SEEDED, THE AREA WHERE WORK IS CURRENTLY ONGOING, AND THE NEXT AREA TO BE WORKED IN. PLEASE NOTE THAT NO WORK CAN OCCUR IN A DRAINAGE BASIN UNTIL A MONITOR IS OPERATIONAL IN THAT BASIN. PLEASE ALSO NOTE THAT AREAS WHERE THE STABILIZATION IS DEFINED AS MEANING THAT THE LEAST 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS RIP-RAP, PERMANENT MULCHES OR GEO-TEXTILES). PERMANENT VEGETATIVE SHALL CONSIST OF PLANTED TREES, SHRUBS, PERENNIAL CINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION, OR CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION SUCH THAT WITHIN THE GROWING SEASON OF 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. ONCE AN AREA HAS ACHIEVED FINAL STABILIZATION, AS DETERMINED BY THE ENGINEER, THE SILT FENCE MAY BE REMOVED AND RELOCATED TO A SITE IN ADVANCE OF THE CONSTRUCTION.

9. SAMPLING FREQUENCY
THE CONTRACTOR'S ENVIRONMENTAL ENGINEER MUST SAMPLE AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN 45 MINUTES OF:
I. THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION
II. THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL.

HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE AS DEFINED IN THE PERMIT, OR ARE BEYOND THE CONTRACTOR'S CONTROL, THE SAMPLE SHALL BE TAKEN FOR THE SAMPLE AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN 12 HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE. SAMPLING BY THE CONTRACTOR'S ENVIRONMENT ENGINEER SHALL OCCUR FOR THE FOLLOWING EVENTS:

A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, RAINFALL EVENTS THAT ARE EXCEEDS 0.5 INCH AND ALLOWS F




GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

## EROSION CONTROL LEGEND

| ESPC BMP | | LINETYPE/SYMBOL | REFERENCE |
|---|---|---|---|
| Co | CONSTRUCTION EXIT | | SHEET C06.5 |
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| Sd2-F | INLET SEDIMENT TRAP-FILTER | | SHEET C06.10 |
| Sd2-P | INLET SEDIMENT TRAP-CURB | | SHEET C06.10 |
| Du | DUST CONTROL-DISTURBED AREAS | Du | SHEET C06.5 |
| Ds1 | DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) | Ds1 | SHEET C06.5 |
| Ds2 | DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) | Ds2 | SHEET C06.6 |
| Ds3 | DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) | Ds3 | SHEET C06.7 & C06.8 |
| Ds4 | DISTURBED AREA STABILIZATION (WITH SODDING) | Ds4 | NOT APPLICABLE |
| ST | STORM OUTLET PROTECTION | ST | SHEET C06.11 |
| Tr | TREE PROTECTION | TPP | NOT APPLICABLE |

**SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS**

## ESPC NOTES

GENERAL
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2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
5. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
6. THE PERMITEE IS ONLY RESPONSIBLE FOR THE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT DEVICES PRIOR TO STABILIZATION OF THE SITE AND NOT THE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
7. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
8. SEE GRADING & DRAINAGE NOTES.

SLOPES AND DISTURBED AREA STABILIZATION
1. CONCENTRATED FLOW AREAS AND ALL SLOPES 2H:1V OR STEEPER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
2. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN (7) DAYS OF THEIR CONSTRUCTION.
3. ALL DISTURBED AREAS SHALL BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT. NO EXPOSED GRADE WILL BE LEFT UNSTABLE FOR MORE THAN 7 DAYS.
4. PERMANENT GRASSING AND LANDSCAPING OF DISTURBED AREAS SHALL BE COMPLETED AS QUICKLY AS POSSIBLE. TEMPORARY STABILIZATION BY MULCHING AND/OR TEMPORARY SEEDING WILL BE REQUIRED IN THE EVENT OF PROJECT DELAYS.
5. WIRE MESH REINFORCED SEDIMENT BARRIERS SHALL BE PLACED AT THE TOE OF ALL FILL SLOPES.

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3. A 25' UNDISTURBED VEGETATIVE STREAM BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT UNDISTURBED AND MAINTAINED THROUGH ALL PHASES OF CONSTRUCTION. REFER TO PLANS FOR EXACT LOCATIONS.

TREE PROTECTION
1. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
2. ALL TREE PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO START OF LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED.
3. NO PARKING, STORAGE, OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.

MAINTENANCE AND INSPECTIONS
1. SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSPECTED DAILY.
2. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
3. SEDIMENT CONTROL DEVICES MUST BE INSPECTED DAILY AND CHECKED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN THEY REACH 1/3 OF DESIGN CAPACITY.
4. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED AS NEEDED.
5. MAINTENANCE OF ALL SOIL AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.

## ESPC NARRATIVE

1. AREA CALCULATIONS:
   SITE: 1.00 ACRES (43,560.000000 SF)
   DISTURBED AREA: 0.91 ACRES
2. LAND LOT:
   7-A DISTRICT: 02
3. THERE ARE NO STATE WATERS WITHIN 200' OF THE PROJECT SITE. ALL STATE WATERS WITHIN 200' OF THE SITE HAVE BEEN DELINEATED.
4. THERE ARE NO WETLANDS ONSITE. THEREFORE NONE CAN BE DELINEATED.
5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTRUBING ACTIVITIES.
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7. SEDIMENT STORAGE:
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8. SOIL CLASSIFICATIONS:
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10. RECEIVING WATER BODY:
    A TRIBUTARY OF THE DRIED INDIAN CREEK WHICH EVENTUALLY OUTFALLS TO THE YELLOW RIVER.
11. PRIMARY PERMITTEE:
    COVINGTON TOWN CENTER, LLC
12. NON-EXEMPT NOTE:
    NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
13. WASTE MATERIALS NOTE:
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19. FLOOD HAZARD:
    SEE FIRM PANEL 13217C0127D, DATED 03/17/2014, SHEET C01.1
20. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.

**24-HOUR CONTACT:**
**JOE CELENTO**
**(912) 272-4811**

**BASED IN THE WEB SOIL SURVEY INFORMATION, ALL SOILS AT THIS SITE ARE CLASSIFIED AS CeB; CECIL SANDY LOAM, 2 TO 6 PERCENT SLOPES, PaC; PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES, Ta; TOCCOA FINE SANDY LOAM, RARELY FLOODED..**

**TOTAL DISTURBED AREA THIS PHASE: 0.91 AC.**

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

**CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.**

N
0 20 40 Feet
SCALE 1" = 20'

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PANDA EXPRESS CHINESE KITCHEN

**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

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REVISIONS:

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ISSUE DATE:

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| PRELIMINARY | 01/19/2022 |
| BID | 02/07/2022 |
| CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

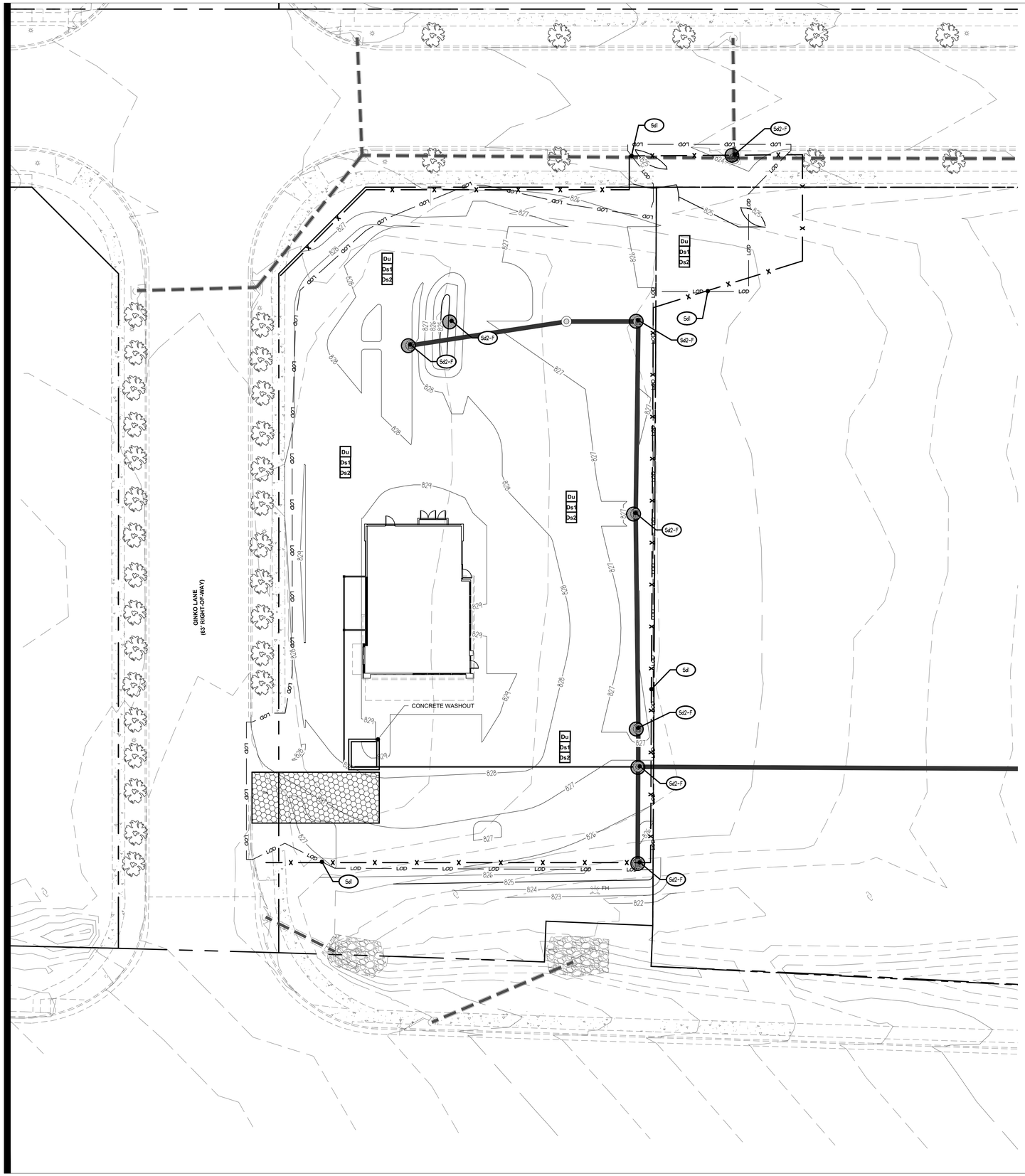
PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

# ESPC PLAN CLEARING PHASE C06.1

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS




GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

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SCALE 1" = 20'

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PANDA EXPRESS CHINESE KITCHEN

**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
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ISSUE DATE:

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| | PRELIMINARY | 01/19/2022 |
| | BID | 02/07/2022 |
| | CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

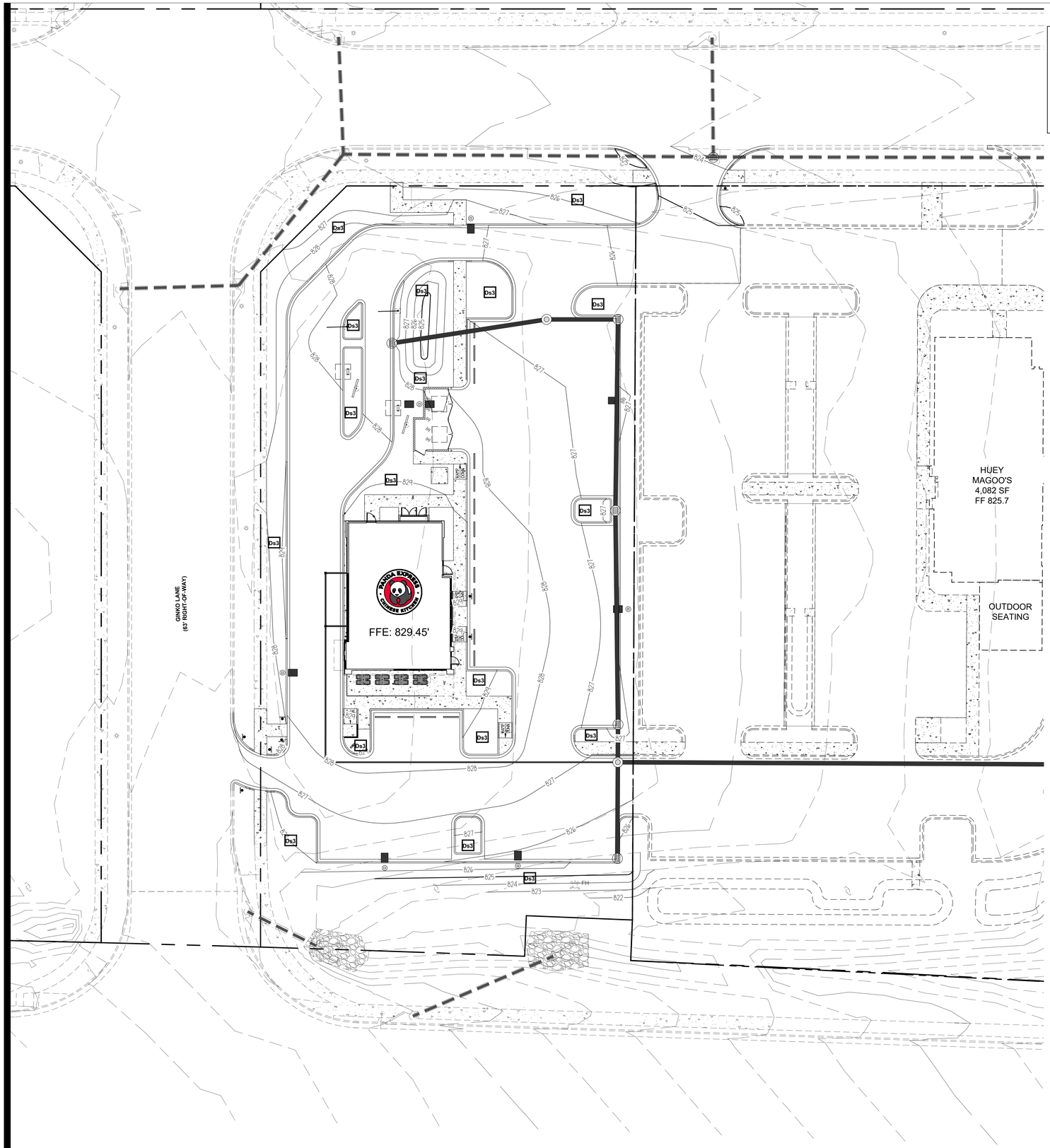
PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

# ESPC PLAN GRADING PHASE C06.2

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS




GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

## EROSION CONTROL LEGEND

| ESPC BMP | | LINETYPE/SYMBOL | REFERENCE |
|---|---|---|---|
| Co | CONSTRUCTION EXIT | | SHEET C06.5 |
| Sd1-TYPE C | SILT FENCE - TYPE C | | SHEET C06.9 |
| Sd1-TYPE C | SILT FENCE - TYPE C DOUBLE | | SHEET C06.9 |
| Sd2-F | INLET SEDIMENT TRAP-FILTER | | SHEET C06.10 |
| Sd2-P | INLET SEDIMENT TRAP-CURB | | SHEET C06.10 |
| Du | DUST CONTROL-DISTURBED AREAS | Du | SHEET C06.5 |
| Ds1 | DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) | Ds1 | SHEET C06.5 |
| Ds2 | DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) | Ds2 | SHEET C06.6 |
| Ds3 | DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) | Ds3 | SHEET C06.7 & C06.8 |
| Ds4 | DISTURBED AREA STABILIZATION (WITH SODDING) | Ds4 | NOT APPLICABLE |
| ST | STORM OUTLET PROTECTION | ST | SHEET C06.11 |
| Tr | TREE PROTECTION | TPF | NOT APPLICABLE |

**SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS**

## ESPC NOTES

GENERAL
1. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES AND PRACTICES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AT THE EXPENSE OF THE CONTRACTOR.
2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
5. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
6. THE PERMITEE IS ONLY RESPONSIBLE FOR THE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT DEVICES PRIOR TO STABILIZATION OF THE SITE AND NOT THE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
7. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
8. SEE GRADING & DRAINAGE NOTES.

SLOPES AND DISTURBED AREA STABILIZATION
1. CONCENTRATED FLOW AREAS AND ALL SLOPES 2H:1V OR STEEPER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
2. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN (7) DAYS OF THEIR CONSTRUCTION.
3. ALL DISTURBED AREAS SHALL BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT. NO EXPOSED GRADE WILL BE LEFT UNSTABLE FOR MORE THAN 7 DAYS.
4. PERMANENT GRASSING AND LANDSCAPING OF DISTURBED AREAS SHALL BE COMPLETED AS QUICKLY AS POSSIBLE. TEMPORARY STABILIZATION BY MULCHING AND/OR TEMPORARY SEEDING WILL BE REQUIRED IN THE EVENT OF PROJECT DELAYS.
5. WIRE MESH REINFORCED SEDIMENT BARRIERS SHALL BE PLACED AT THE TOE OF ALL FILL SLOPES.

DRAINAGE
1. ALL DRAINAGE STRUCTURES SHALL BE EROSION PROOFED.
2. LENGTH OF RIP-RAP PADS AT PIPE OUTLETS SHALL BE A MINIMUM LENGTH OF (6) SIX TIMES THE DIAMETER OF THE PIPE IN FEET.
3. A 25' UNDISTURBED VEGETATIVE STREAM BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT UNDISTURBED AND MAINTAINED THROUGH ALL PHASES OF CONSTRUCTION. REFER TO PLANS FOR EXACT LOCATIONS.

TREE PROTECTION
1. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
2. ALL TREE PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO START OF LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED.
3. NO PARKING, STORAGE, OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.

MAINTENANCE AND INSPECTIONS
1. SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSPECTED DAILY.
2. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
3. SEDIMENT CONTROL DEVICES MUST BE INSPECTED DAILY AND CHECKED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN THEY REACH 1/3 OF DESIGN CAPACITY.
4. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED AS NEEDED.
5. MAINTENANCE OF ALL SOIL AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.

## ESPC NARRATIVE

1. AREA CALCULATIONS:
   SITE: 1.00 ACRES (43,560.000000 SF)
   DISTURBED AREA: 0.91 ACRES
2. LAND LOT:
   7-A DISTRICT: 02
3. THERE ARE NO STATE WATERS WITHIN 200' OF THE PROJECT SITE. ALL STATE WATERS WITHIN 200' OF THE SITE HAVE BEEN DELINEATED.
4. THERE ARE NO WETLANDS ONSITE. THEREFORE NONE CAN BE DELINEATED.
5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTRUBING ACTIVITIES.
6. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
7. SEDIMENT STORAGE:
   EXCAVATED SEDIMENT TRAPS WILL BE UTILIZED TO MEET THE REQUIRED 67 CY/ACRE OF SEDIMENT STORAGE.
8. SOIL CLASSIFICATIONS:
   THE SOIL SERIES FOR THE SITE PER THE USDA/NRCS WEB SOIL SURVEY IS: CeB; CECIL SANDY LOAM, 2 TO 6 PERCENT SLOPES, PaC; PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES, Ta; TOCCOA FINE SANDY LOAM, RARELY FLOODED.
9. PROJECT NARRATIVE:
   THE EXISTING SITE IS CURRENTLY VACANT. THE PROPOSED IMPROVEMENTS WILL CONSIST OF NEW ASPHALT OR CONCRETE. AN APPROXIMATELY 2,381 SF BUILDING WILL BE CONSTRUCTED AT THE WEST AREA OF THE PARCEL. TYPE 'C' SILT FENCE WILL BE UTILIZED AS WELL AS AN INLET PROTECTION SEDIMENT TRAPS IN THE PARKING AREA. OUTLET PROTECTION HAS BEEN PROVIDED WHERE OUTFALLS EXIST. THESE DEVICES COMBINED WITH DISTURBED AREA STABILIZATION WILL CONTROL THE SEDIMENTATION FROM THIS SITE. THEREFORE, NO ADVERSE IMPACTS ARE ANTICIPATED FROM THE CONSTRUCTION OF THIS SITE.
10. RECEIVING WATER BODY:
    A TRIBUTARY OF THE DRIED INDIAN CREEK WHICH EVENTUALLY OUTFALLS TO THE YELLOW RIVER.
11. PRIMARY PERMITTEE:
    COVINGTON TOWN CENTER, LLC
12. NON-EXEMPT NOTE:
    NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
13. WASTE MATERIALS NOTE:
    WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
14. SAMPLING RATIONALE:
    SAMPLES (NTU) SHALL BE TAKEN AT THE OUTFALL POINT OF THE DETENTION ONLY POND FOR THE STORMWATER RUNOFF LEAVING THE SUBJECT SITE PRIOR TO CONSTRUCTION AND PER NPDES SAMPLING GUIDELINES.
15. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
16. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
17. THE PERMITEE IS ONLY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT DEVICES PRIOR TO STABILIZATION OF THE SITE AND NOT THE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
18. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
19. FLOOD HAZARD:
    SEE FIRM PANEL 13217C0127D, DATED 03/17/2014, SHEET C01.1
20. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.

**24-HOUR CONTACT:**
**JOE CELENTO**
**(912) 272-4811**

**BASED IN THE WEB SOIL SURVEY INFORMATION, ALL SOILS AT THIS SITE ARE CLASSIFIED AS CeB; CECIL SANDY LOAM, 2 TO 6 PERCENT SLOPES, PaC; PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES, Ta; TOCCOA FINE SANDY LOAM, RARELY FLOODED..**

**TOTAL DISTURBED AREA THIS PHASE: 0.91AC.**

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

**CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.**

N

0 20 40 Feet

SCALE 1" = 20'

**CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.**

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ARCH PROJECT #: 2210604

INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

ESPC PLAN
FINAL PHASE
C06.3

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

# GEORGIA
# UNIFORM CODING SYSTEM
## FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
### GEORGIA SOIL AND WATER CONSERVATION COMMISSION

### STRUCTURAL PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|---|---|---|---|---|
| Cd | CHECKDAM | | | A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow. |
| Ch | CHANNEL STABILIZATION | | | Improving, constructing or stabilizing an open channel, existing stream, or ditch. |
| Co | CONSTRUCTION EXIT | | | A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets. |
| Cr | CONSTRUCTION ROAD STABILIZATION | | | A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes. |
| Dc | STREAM DIVERSION CHANNEL | | | A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed. |
| Di | DIVERSION | | | An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure. |
| Dn1 | TEMPORARY DOWNDRAIN STRUCTURE | | | A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive. |
| Dn2 | PERMANENT DOWNDRAIN STRUCTURE | | | A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope. |
| Fr | FILTER RING | | | A temporary stone barrier constructed at storm drain inlets and pond outlets. |
| Ga | GABION | | | Rock filter baskets which are hand-placed into position forming soil stabilizing structures. |
| Gr | GRADE STABILIZATION STRUCTURE | | | Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies. |
| Lv | LEVEL SPREADER | | | A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils. |
| Rd | ROCK FILTER DAM | | | A permanent or temporary stone filter dam installed across small streams or drainageways. |
| Re | RETAINING WALL | | | A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design. |
| Rt | RETRO FITTING | | | A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter. |
| Sd1 | SEDIMENT BARRIER | | | A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence. |
| Sd2 | INLET SEDIMENT TRAP | | | An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities. |
| Sd3 | TEMPORARY SEDIMENT BASIN | | | A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out. |
| Sd4 | TEMPORARY SEDIMENT TRAP | | | A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser. |
| Sk | FLOATING SURFACE SKIMMER | | | A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow. |
| Spb | SEEP BERM |  |  | Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes. |

### STRUCTURAL PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|---|---|---|---|---|
| Sr | TEMPORARY STREAM CROSSING | | | A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment. |
| St | STORMDRAIN OUTLET PROTECTION | | | A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff. |
| Su | SURFACE ROUGHENING | | | A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading. |
| Tc | TURBIDITY CURTAIN | | | A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain). |
| Tp | TOPSOILING | | | The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities. |
| Tr | TREE PROTECTION | | | To protect desirable trees from injury during construction activity. |
| Wt | VEGETATED WATERWAY STORMWATER CONVEYANCE | | | Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures. |

### VEGETATIVE PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|---|---|---|---|---|
| Bf | BUFFER ZONE | | | Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams. |
| Cs | COASTAL DUNE STABILIZATION (WITH VEGETATION) | | Cs | Planting vegetation on dunes that are denuded artificially constructed, or re-nourished. |
| Ds1 | DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) | | Ds1 | Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover. |
| Ds2 | DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING) | | Ds2 | Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. |
| Ds3 | DISTURBED AREA STABILIZATION (WITH PERM. SEEDING) | | Ds3 | Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. |
| Ds4 | DISTURBED AREA STABILIZATION (SODDING) | | Ds4 | A permanent vegetative cover using sods on highly erodable or critically eroded lands. |
| Du | DUST CONTROL ON DISTURBED AREAS | | Du | Controlling surface and air movement of dust on construction site, roadways and similar sites. |
| Fl-Co | FLOCCULANTS AND COAGULANTS | | Fl-Co | Substance formulated to assist in the solids/liquid separation of suspended particles in solution. |
| Sb | STREAMBANK STABILIZATION (USING PERM. VEGETATION) | | Sb | The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems. |
| Ss | SLOPE STABILIZATION | | Ss | A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels. |
| Tac | TACKIFIERS AND BINDERS |  | Tac | Substance used to anchor straw or hay mulch by causing the organic material to bind together. |

GaSWCC (Amended – 2013)

### EROSION CONTROL ACTIVITY SCHEDULE

| ACTIVITY | MONTH 1 | MONTH 2 | MONTH 3 | MONTH 4 |
|---|---|---|---|---|
| START CONSTRUCTION | X | | | |
| INSTALLATION OF EROSION CONTROL DEVICES | ▬ | | | |
| CLEARING AND GRUBBING | ▬ | | | |
| GRADING | ▬▬ | | | |
| TEMPORARY VEGETATION AT 14 DAY INTERVALS | | ▬▬▬ | | |
| STORM SEWER SYSTEM INSTALLATION | ▬ | | | |
| PAVING | | | | ▬▬ |
| BUILDING PAD CONSTRUCTION | | ▬▬ | | |
| INSTALLATION OF UTILITIES | | ▬▬ | | |
| PERMANENT VEGETATION AT 30 DAY INTERVALS | | | ▬▬ | ▬▬ |
| MAINTENANCE OF EROSION CONTROL DEVICES | | ▬▬ | ▬▬ | ▬▬ |
| REMOVE EROSION CONTROL DEVICES | | | | ▬ |
| TREE PROTECTION FENCING | ▬▬ | ▬▬ | ▬▬ | ▬▬ |
| END OF CONSTRUCTION | | | | |

SCHEDULE IS REPRESENTATIVE FOR OVERALL SITE CONSTRUCTION. THE ENGINEER MUST BE NOTIFIED, IF THIS SCHEDULE IS DEVIATED FROM BY THE CONTRACTOR.
ANTICIPATED START DATE: DATE
ANTICIPATED COMPLETION DATE: DATE

WATERS SUPPORTING WARM WATER FISHERIES
SURFACE WATER DRAINAGE AREA, SQUARE MILES

| SITE SIZE, ACRES | 0-4.99 | 5-9.99 | 10-24.99 | 25-49.99 | 50-99.99 | 100-249.99 | 250-499.99 | 500+ |
|---|---|---|---|---|---|---|---|---|
| 0-4.99 | 75 | 150 | 200 | 400 | 750 | 750 | 750 | 750 |
| 0-4.99 | 50 | 100 | 100 | 200 | 300 | 500 | 750 | 750 |
| 0-4.99 | 50 | 50 | 100 | 100 | 200 | 300 | 750 | 750 |
| 0-4.99 | 50 | 50 | 50 | 100 | 100 | 150 | 300 | 600 |
| 0-4.99 | 50 | 50 | 50 | 50 | 50 | 100 | 200 | 100 |

[redacted]

PANDA EXPRESS CHINESE KITCHEN

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Civil Engineering & Planning

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[redacted]

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETTIT
2/7/22

[redacted]

ESPC DETAILS I
C06.4

[redacted]

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ERIK HOUSTON
Level II Certified Design Professional

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## Construction Exit (Co)

**DEFINITION**
A stone stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk or parking area or any other area where there is a transition from bare soil to a paved area.

**PURPOSE**
To reduce or eliminate the transport of mud from the construction area onto public rights-of-way by motor vehicles or by runoff.

**CONDITIONS**
This practice is applied at appropriate points of construction egress. Geotextile underliners are required to stabilize and support the pad aggregates.

**DESIGN CRITERIA**
Formal design is not required. The following standards shall be used:

**Aggregate Size**
Stone will be in accordance with National Stone Association R-2 (1.5 to 3.5 inch stone).

**Pad Thickness**
The gravel pad shall have a minimum thickness of 6 inches.

**Pad Width**
At a minimum, the width should equal full width of all points of vehicular egress, but not less than 20 feet wide.

**Pad Length**
The gravel pad shall have a minimum length of 50 feet. When the construction is less than 50' from the paved access, the length shall be from the edge of existing pavement to the permitted building being constructed.

**Washing**
If the action of the vehicle traveling over the gravel pad does not sufficiently remove the mud, the tires should be washed prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with crushed stone and provisions that intercept the sediment-laden runoff and direct it into an approved sediment trap or sediment basin.

**Location**
The exit shall be located or protected to prevent sediment from leaving the site.

**CONSTRUCTION SPECIFICATIONS**
It is recommended that the egress area be excavated to a depth of 3 inches and be cleared of all vegetation and roots.

**Diversion Ridge**
On sites where the grade toward the paved area is greater than 2%, a diversion ridge 6 to 8 inches high with 3:1 side slopes shall be constructed across the foundation approximately 15 feet above the road.

**Geotextile**
The geotextile underliner must be placed the full length and width of the entrance. Geotextile selection shall be based on AASHTO M288-06 specification:

1. For subgrades with a CBR greater than or equal to 3 or shear strength greater than 90 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 7.3, *Separation Requirements*.

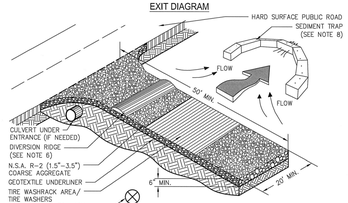
2. For subgrades with a CBR between 1 and 3 or sheer strength between 30 and 90 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 8, *Geotextile Property Requirements for Subsurface Drainage, Separation, Stabilization, and Permanent Erosion Control (Geotextile Property Requirements)*..



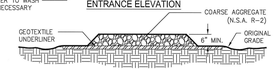
**MAINTENANCE**
The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

## CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



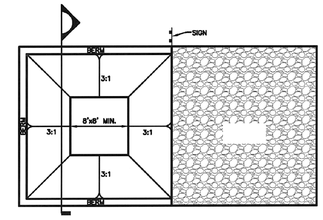

ENTRANCE ELEVATION

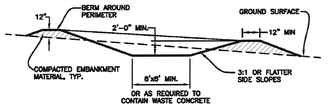



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**Figure 6-14.1**






## CONSTRUCTION ENTRANCE/EXIT (Co) NTS

## Dust Control on Disturbed Areas (Du)

**DEFINITION**
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

**PURPOSE**
- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

**CONDITIONS**
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

**METHOD AND MATERIALS**

**A. Temporary Methods**

**Mulches.** See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only)**. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

**Vegetative Cover.** See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)**.

**Spray-on Adhesives.** These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac - Tackifiers**.

**Tillage.** This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

**Irrigation.** This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

**Barriers.** Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

**Calcium Chloride.** Apply at rate that will keep surface moist. May need retreatment.

**B. Permanent Methods**

**Permanent Vegetation.** See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

**Topsoiling.** This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

**Stone.** Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.



## DUST CONTROL (Du) NTS

## Disturbed Area Stabilization (With Mulching Only) (Ds1)

**DEFINITION**
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

**PURPOSE**
- To reduce runoff and erosion
- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
- To increase biological activity in the soil

**REQUIREMENT FOR REGULATORY COMPLIANCE**
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to **Ds2 -Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding)**.

**SPECIFICATIONS**
**Mulching Without Seeding**
This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

**Site Preparation**

1. Grade to permit the use of equipment for applying and anchoring mulch.

2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.

3. Loosen compact soil to a minimum depth of 3 inches.

**Mulching Materials**
Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.

2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.

3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

**Applying Mulch**
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.



2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.

3. Apply polyethylene film on exposed areas.

**Anchoring Mulch**

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

   Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifers, binders and hydraulic mulch with tackifier specifically designed for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifers**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.



## DISTURBED AREA STABILIZATION (MULCHING) (Dsl) NTS

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ARCH PROJECT #: 2210604

INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

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ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

# Disturbed Area Stabilization (With Temporary Seeding)

**Ds2**

**DEFINITION**

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

**PURPOSE**

- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

**REQUIREMENT FOR REGULATORY COMPLIANCE**

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification **Ds1-Disturbed Area Stabilization (With Temporary Seeding).**



**CONDITIONS**

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

**SPECIFICATIONS**

**Grading and Shaping**

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

**Seedbed Preparation**

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

**Lime and Fertilizer**

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.



2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.

3. Apply polyethylene film on exposed areas.

**Anchoring Mulch**

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

   Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifers, binders and hydraulic mulch with tackifier specifically desgined for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifers**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.



# GEORGIA
## Major Land Resource Areas

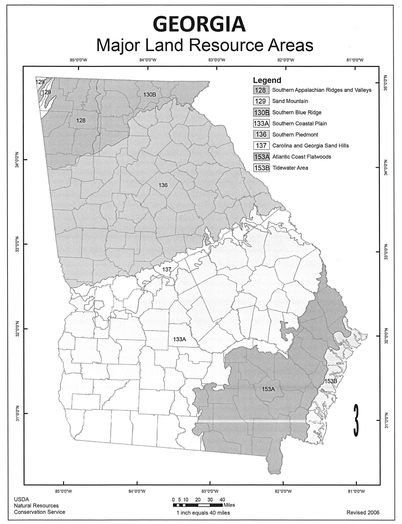


**Figure 6-4.1**



Table 6-4.1 - Temporary Cover or Companion Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS [1]

| Species | Broadcast Rates | | Resource Area[2] | Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D | Remarks |
|---|---|---|---|---|---|
| | Rate Per Acre | Pure Live Seed (PLS) Per 1000 sqft | | | |
| BARLEY<br>*Hordeum vulgare* | | | | | |
| alone | 3 bu. (144 lbs) | 3.3 lbs | M-L | | 14,000 seed per pound. Winter hardy. Use |
| in mixture | 1/2 bu. (24lbs) | 0.6 lb | P | | on productive soils. |
| | | | C | | |
| LESPEDEZA, ANNUAL<br>*Lespedeza striata* | | | | | |
| alone | 40 lbs | 0.9 lb | M-L | | 200,000 seed per pound. May volunteer for sev- |
| in mixture | 10 lbs | 0.2 lb | P | | eral years. Use inoculant EL. |
| | | | C | | |
| LOVEGRASS, WEEPING<br>*Eragrostis curvula* | | | | | |
| alone | 4 lbs | 0.1 lb | M-L | | 1,500,000 seed per pound. May last for several |
| in mixture | 2 lbs | 0.05 lb | P | | years. Mix with *Sericea lespedeza*. |
| | | | C | | |
| MILLET, BROWNTOP<br>*Panicum fasciculatum* | | | | | |
| alone | 40 lbs | 0.9 lb | M-L | | 137,000 seed per pound. Quick dense cover. |
| in mixture | 10 lbs | 0.2 lb | P | | Will provide excessive competion in mixtures if |
| | | | C | | seeded at high rate. |

| Species | Broadcast Rates | | Resource Area[2] | Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D | Remarks |
|---|---|---|---|---|---|
| | Rate Per Acre | Pure Live Seed (PLS) Per 1000 sqft | | | |
| MILLET, PEARL<br>*Pennisetum glaucum* | | | | | |
| alone | 50 lbs | 1.1 lbs | M-L | | 66,000 seed per pound. Quick dense cover. May |
| | | | P | | reach 5 feet in height. Not recommended for |
| | | | C | | mixtures. |
| OATS<br>*Avena sativa* | | | | | |
| alone | 4 bu. (128 lbs) | 2.9 lbs | M-L | | 13,000 seed per pound. Use on productive soils. |
| in mixture | 1 bu. (32 lbs) | 0.7 lb | P | | Not as a winter hardy as rye or barley. |
| | | | C | | |
| RYE<br>*Secale cereale* | | | | | |
| alone | 3 bu. (168 lbs) | 3.9 lbs | M-L | | 18,000 seed per pound. Quick cover. Drought |
| in mixture | 1/2 bu. (28 lbs) | 0.6 lb | P | | tolerant and winter hardy. |
| | | | C | | |
| RYEGRASS, ANNUAL<br>*Lolium tomulontum* | | | | | |
| alone | 40 lbs | 0.9 lb | M-L | | 227,000 seed per pound. Dorse cover. Very com- |
| | | | P | | petitive and is not to be used in mixtures. |
| | | | C | | |
| SUDANGRASS<br>*Sorghum sudanese* | | | | | |
| alone | 60 lbs | 1.4 lbs | M-L | | 55,000 seed per pound. Good on droughty sites. |
| | | | P | | Not recommended for mixtures. |
| | | | C | | |

| Species | Broadcast Rates | | Resource Area[2] | Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D | Remarks |
|---|---|---|---|---|---|
| | Rate Per Acre | Pure Live Seed (PLS) Per 1000 sqft | | | |
| TRITICALE<br>*X-Triticosecale* | | | | | |
| alone | 3 bu. (144 lbs) | 3.3 lbs | C | | Use on lower part of Southern Coastal Plain and |
| in mixture | 1/2 bu. (24 lbs) | 0.6 lb | | | in Atlantic Coastal Flatwoods only. |
| WHEAT<br>*Triticum aestivum* | | | | | |
| alone | 3 bu. (180 lbs) | 4.1 lbs | M-L | | 15,000 seed per pound. Winter hardy. |
| in mixture | 1/2 bu. (30 lbs) | 0.7 lb | P | | |
| | | | C | | |

[1]Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily

[2]Reduce seeding rates by 50% when drilled.

[3]M-L represents the Mountain, Blue Ridge, and Ridges and Valleys MLRAs

P represents the Southern Piedmont MLRA

C represents Southern Coastal Plain, Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs

(see Figure 6-4.1, p. 6-40)



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ERIK HOUSTON
Level II Certified Design Professional

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## Disturbed Area Stabilization (With Permanent Vegetation) Ds3

**DEFINITION**

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

**PURPOSE**

- To protect the soil surface from erosion
- To reduce damage from sediment and runoff to down-stream areas
- To improve wildlife habitat and visual resources
- To improve aesthetics

**REQUIREMENT FOR REGULATORY COMPLIANCE**

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. **Final Stabilization** means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformlycovered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

Permanent vegetation shall consist of, planted trees, shrubs, perennial vines; or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

**CONDITIONS**

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

**PLANNING CONSIDERATIONS**

1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.
3. No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification **Ds4-Disturbed Area Stabilization (With Sodding)**.
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.



**Wildlife Plantings**

Commercially available plants beneficial to wildlife species include the following:

*Mast Bearing Trees*

Beech, Black Cherry, Blackgum, Chestnut, Chinkapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

All trees that produce nuts or fruits are favored by many game species. Hickory provides nuts used mainly by squirrels and bear.

*Shrubs and Small Trees*

Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza that produces seeds used by quail and songbirds.

*Grasses, Legumes, Vines and Temporary Cover*

Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchardgrass (for mountains), Browntop Millet (for temporary cover), and Native grapes.

Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedezas may be mixed with grass, but they may die out after a few years.

**CONSTRUCTION SPECIFICATIONS**

**Grading and Shaping**

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

Concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

**Lime and Fertilizer Rates and Analysis**

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.

Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 150 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.

It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs. (See Figure 6-4.1)

Agricultural lime is generally not required where only trees are planted.

Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-5.1.

**Lime and Fertilizer Application**

When *hydraulic seeding* equipment is used, the initial fertilizer shall be mixed with seed, innoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the



hydroseeder.

Finely ground limestone can be applied in the mulch slurry or in combination with the top dressing.

When *conventional planting* is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:

1. Apply before land preparation so that it will be mixed with the soil during seedbed preparation.
2. Mix with the soil used to fill the holes, distribute in furrows.
3. Broadcast after steep surfaces are scarified, pitted or trenched.
4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seedling.

**Plant Selection**

Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationist of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area; time of year of planting, method of planting; and the needs and desires of the land user.

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovegrass.

Other perennials, such as Bahia Grass and Sericea Lespedeza, are slow to become established and should be planted with another perennial species. The additional species will provide quick cover and ample soil protection until the target perennial species become established. For example, Common seeding combinations are 1) Weeping Lovegrass with Sericea Lespedeza (scarified) and 2) Tall Fescue with Sericea Lespedeza (unscarified).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennial species for water, nutrients, and growing space. A high seeding rate of the companion crop may prevent the establishment of perennial species.

**Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.**

**Seed Quality**

The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is determined by multiplying the percent of pure seed with the percent of germination; i.e.,

**(PLS = % germination x % purity)**

EXAMPLE:

Common Bermuda seed
75% germination, 80% purity

PLS = 70% germination x 80% purity

PLS = 56%

The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 pounds PLS and the bulk seed is 56 % PLS, the bulk seeding rate is:

10 lbs. PLS/acre = 17.9 lbs/acre
56% PLS

You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.

**Seedbed Preparation**

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seedbed preparation will be done as follows:

*Broadcast plantings*

1. Tillage, at a minimum, shall adequately



loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.
4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

*Individual Plants*

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

**Inoculants**

All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The inoculant shall be a pure culture prepared specifically for the seed species and used within the dates on the container.

A mixing medium recommended by the manufacturer shall be used to bond the inoculant to the seed. For conventional seeding, use twice the amount of inoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of inoculant recommended by the manufacturer shall be used.

All inoculated seed shall be protected from the sun and high temperatures and shall be planted the same day inoculated. No inoculated seed shall remain in the hydroseeder longer than one hour.

**Planting**

*Hydraulic Seeding*

Mix the seed (inoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

*Conventional Seeding*

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker-seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

*No-Till Seeding*

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

*Individual Plants*

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface.

Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

**Mulching**

*Mulch is required for all permanent vegetation applications.* Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegetation establishment enhancement, and erosion control effectiveness. Select the mulching material from the following and apply as indicated:

1. *Dry straw or dry hay* of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
2. *Wood cellulose mulch* or *wood pulp fiber* shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Dry straw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.
3. One thousand pounds of *wood cellulose* or *wood pulp fiber*, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper.
4. *Sericea Lespedeza* hay containing mature seed shall be applied at a rate of three tons per acre.
5. *Pine straw* or *pine bark* shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or block sod, mulch is not required.
7. *Bituminous treated roving* may be applied on planted areas, slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

**Applying Mulch**

*Straw or hay mulch* will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

*Wood cellulose or wood fiber mulch* shall be applied uniformly with hydraulic seeding equipment.

**Anchoring Mulch**

Anchor straw or hay mulch immediately after application by one of the following methods:

1. *Hay and straw* mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.
2. *Synthetic tackifiers, binders or hydraulic mulch specifically designed to tack straw,* shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. All tackifiers, binders or hydraulic mulch specifically designed to tack straw should be verified nontoxic through EPA 2021.0 testing. Refer to **Tackifiers-Tac**
3. *Rye or wheat* can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one-half bushel per acre.
4. *Plastic mesh or netting* with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

**Bedding Material**

Mulch is used as a bedding material to conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bare areas on lawns.



| Material | Depth |
|---|---|
| Grain straw | 4" to 6" |
| Grass Hay | 4" to 6" |
| Pine needles | 3" to 5" |
| Wood waste | 4" to 6" |

**Irrigation**

Irrigation will be applied at a rate that will not cause runoff.

**Topdressing**

Topdressing will be applied on all temporary and permanent (perennial) species planted alone or in mixtures with other species. Recommended rates of application are listed in Table 6-5.1.

**Second Year and Maintenance Fertilization**

Second year fertilizer rates and maintenance fertilizer rates are listed in Table 6-5.1.

**Lime Maintenance Application**

Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests can be conducted to determine more accurate requirements, if desired.

**Use and Management**

Mow Sericea Lespedeza only after frost to ensure that the seeds are mature. Mow between November and March.

Bermudagrass, Bahiagrass and Tall Fescue may be mowed as desired. Maintain at least 6 inches of top growth under any use and management. Moderate use of top growth is beneficial after establishment.

Exclude traffic until the plants are well established. Because of the quail nesting season, mowing should not take place between May and September.

**Table 6-5.1. Fertilizer Requirements**

| TYPE OF SPECIES | YEAR | ANALYSIS OR EQUIVALENT N-P-K | RATE | N TOP DRESSING RATE |
|---|---|---|---|---|
| 1. Cool season grasses | First | 6-12-12 | 1500 lbs./ac. | 50-100 lbs./ac. 1/2/ |
| | Second | 6-12-12 | 1000 lbs./ac. | — |
| | Maintenance | 10-10-10 | 400 lbs./ac. | 30 |
| 2. Cool season grasses and legumes | First | 6-12-12 | 1500 lbs./ac. | 0-50 lbs./ac. 1/ |
| | Second | 0-10-10 | 1000 lbs./ac. | — |
| | Maintenance | 0-10-10 | 400 lbs./ac. | — |
| 3. Ground covers | First | 10-10-10 | 1300 lbs./ac. 3/ | — |
| | Second | 10-10-10 | 1300 lbs./ac. 3/ | — |
| | Maintenance | 10-10-10 | 1100 lbs./ac. | — |
| 4. Pine seedlings | First | 20-10-5 | one 21-gram pellet per seedling placed in the closing hole | — |
| 5. Shrub Lespedeza | First | 0-10-10 | 700 lbs./ac. | — |
| | Maintenance | 0-10-10 | 700 lbs./ac. 4/ | |
| 6. Temporary cover crops seeded alone | First | 10-10-10 | 500 lbs./ac. | 30 lbs./ac. 5/ |
| 7. Warm season grasses | First | 6-12-12 | 1500 lbs./ac. | 50-100 lbs./ac. 2/6/ |
| | Second | 6-12-12 | 800 lbs./ac. | 50-100 lbs./ac. 2/ |
| | Maintenance | 10-10-10 | 400 lbs./ac. | 30 lbs./ac. |
| 8. Warm season grasses and legumes | First | 6-12-12 | 1500 lbs./ac. | 50 lbs./ac./6/ |
| | Second | 0-10-10 | 1000 lbs./ac. | |
| | Maintenance | 0-10-10 | 400 lbs./ac. | |

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.



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Table 6-6.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

| Species | Broadcast Rates: Pure Live Seed (PLS) Rate Per Acre[2] | Broadcast Rates: Per 1000 sqft | Resource Area[3] | Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D | Remarks |
|---|---|---|---|---|---|
| BAHIA, PENSACOLA *Paspalum notatum* | | | | | |
| alone or with temporary cover | 60 lbs | 1.4 lbs | P | | 166,000 seed per pound. Low growing sod forming. Slow to establish. Plant with a companion crop. Will spread into bermuda pastures and awns. Mix with Sericea lespedeza or weeping lovegrass. |
| with other perennials | 30 lbs | 0.7 lb | C | | |
| BAHIA, WILMINGTON *Paspalum notatum* | | | | | |
| alone or with temporary cover | 60 lbs | 1.4 lb | M-L | | Same as above. |
| with other perennials | 30 lbs | 0.7 lb | P | | |
| BERMUDA, COMMON *Cynodon dactylon* | | | | | |
| Hulled seed | | | P | | |
| alone | 10 lbs | 0.2 lb | C | | 1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fields. |
| with other perennials | 6 lbs | 0.7 lb | | | |
| BERMUDA, COMMON *Cynodon dactylon* Unhulled seed | | | | | |
| with temporary cover | 10 lbs | 0.2 lb | P | | Plant with winter annuals. |
| with other perennials | 6 lbs | 0.1 lb | C | | Plant with Tall Fescue |



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Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

| Species | Broadcast Rates: Pure Live Seed (PLS) Rate Per Acre[2] | Broadcast Rates: Per 1000 sqft | Resource Area[3] | Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D | Remarks |
|---|---|---|---|---|---|
| BERMUDA SPRIGS *Cynodon dactylon* | | | | | |
| Coastal, Common, Midland, or Tift 44 | 40 cu ft or sod plugs 3' x3' | 0.9 cu ft | M-L | | A cubic foot contains approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately 800 sprigs. |
| Coastal, Common, of Tift 44 | | | P C | | Same as above. |
| Tift 78 | | | C | | Southern Coastal Plain only. |
| CENTIPEDE *Eremochloa ophiuroides* | Block sod only | | P C | | Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in constricted flow areas. Irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far as north Athens and Atlanta |
| CROWNVETECH *Coronilla varia* | | | | | 100,000 seed per pound. Dense growth. Drought tolerant and fire resistant. Attractive rose, pink and white blossoms spring to late fall. Mix with 20 pounds of Tall fescue or 15 pounds of rye. Inoculate see with M inoculant. Use from North Atlanta and Northward. |
| with winter annuals or cool season grasses | 15 lbs | 0.3 lb | M-L P | | |



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Table 6-6.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

| Species | Broadcast Rates: Pure Live Seed (PLS) Rate Per Acre[2] | Broadcast Rates: Per 1000 sqft | Resource Area[3] | Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D | Remarks |
|---|---|---|---|---|---|
| FESCUE, TALL *Festuca arundinacea* | | | | | 227,000 seed per pound. Use alone only on better sites. Mix with perennial lespedeza or Crownvetch. Apply topdressing in spring following fall plantings. Not for heavy use areas or athletic fields. |
| alone | 50 lbs | 1.1 lb | M-L P | | |
| with other perennials | 30 lbs | 0.7 lb | | | |
| KUDZU *Pueraria lhumbergiana* | | | | | |
| Plants or crowns | 3' - 7' apart | | ALL | | Rapid and vigorous growth. Excellent in gully erosion control. Will climb. Good livestock forage. |
| LESPEDEZA SERICEA *Lespedeza cuneata* | | | | | |
| scarified | 60 lbs | 1.4 lb | M-L P C | | 350,000 seed per pound. Widely adapted. Low maintenance. Mix with Weeping lovegrass, Common bermuda, bahia, or tall fescue. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inoculate seed with EL inoculant. |
| unscarified | 75 lbs | 1.7 lb | M-L P C | | Mix with Tall fesue or winter annuals. |
| seed- bearing hay | 3 tons | 1338 lbs | M-L P C | | Cut when seed mixture is mature, but before, it shatters. Add Tall fescue or winter annuals. |



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Table 6-6.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

| Species | Broadcast Rates: Pure Live Seed (PLS) Rate Per Acre[2] | Broadcast Rates: Per 1000 sqft | Resource Area[3] | Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D | Remarks |
|---|---|---|---|---|---|
| LESPEDEZA *Ambro virgata* *Lespedeza virgata DC* *Japan* *Appalow* *Lespedeza cuneata (Dumont)' G. Don)* | | | | | |
| scarified | 60 lbs | 1.4 lb | M-L P C | | 300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban areas. Spreading-type growth. New growth has bronze coloration. Mix with weeping lovegrass, common bermuda, bahia, tall fescue or winter annuals. Do not mix with Sericea lespedeza. Slow to develop solid stands. Inoculate seed with EL inoculant. |
| unscarified | 75 lbs | 1.7 lb | M-L P C | | |
| LESPEDEZA, SHRUB *Lespedeza bicolor* *Lespedeza thumbergil* | | | | | |
| plants | 3' x3' | | M-L P C | | Provide wildlife food and cover. |
| LOVEGRASS, WEEPING *Eragrostis curvula* | | | | | |
| alone | 4 lbs | 0.1 lb | M-L P C | | 1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea lespedeza on roadbanks. |
| with other perennials | 2 lbs | 0.05 lb | | | |



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Table 6-6.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

| Species | Broadcast Rates: Pure Live Seed (PLS) Rate Per Acre[2] | Broadcast Rates: Per 1000 sqft | Resource Area[3] | Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D | Remarks |
|---|---|---|---|---|---|
| MAIDENCANE *Panicum hemitomon* | | | | | |
| sprigs | 2' x 3' spacing | ALL | | | For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines. |
| PANICGRASS, ATLANTIC COASTAL *Panicum amarum var amarulum* | | | | | |
| | 20 lbs | 0.5 lb | P C | | Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea lespedeza except on sand dunes. |
| REED CANARY GRASS *Phalaris arundinacea* | | | | | |
| alone | 50 lbs | 1.1 lb | M-L | | |
| with other perennials | 30 lbs | 0.7 lb | P | | Grows similar to Tall fescue |
| SUNFLOWER, 'AZTEC' MAXIMILLIAN *Helianthus maximiliani* | | | | | |
| | 10 lbs | 0.2 lb | M-L P C | | 227,000 seed per pound. Mix with Weeping lovegrass or other low-growing grasses or legumes. |

1 Reduce seeding rates by 50% when drilled
2 PLS is an abbreviation for Pure Live Seed. Refer to Section V.E. of these specifications.
3 M-L represents to Mountain; Blue Ridge; and Ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents the Souther Coastal Plain;Sand Hills;Black Lands;and Atlantic Coast Flatwoods MLRAs. See Figure 6-4.1



Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION) 1 OF 2 NTS

PANDA EXPRESS CHINESE KITCHEN

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ISSUE DATE:

| | | |
|---|---|---|
| | PRELIMINARY | 01/19/2022 |
| | BID | 02/07/2022 |
| | CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

INGENIUM
Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITI
2/7/22

ESPC DETAILS IV
C06.7

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

**Table 6-5.3.**

## Durable Shrubs and Ground Covers for Permanent Cover

Ground covers include a wide range of low-growing plants planted together in considerable numbers to cover large areas of the landscape. Ground covers grow slower than grasses. Weeds are likely to compete, especially the first year. Maintenance is needed to insure survival. These ground covers will not be used unless proper maintenance is planned. Maintain mulch at three-inch thickness until plants provide adequate cover.

Fall planting is encouraged because the need for constant watering is reduced and plants have time to establish new roots before hot weather.

| Common Name | Scientific Name | Mature Height | Plant Spacing | Comments |
|---|---|---|---|---|
| Albelia | Abelia grandiflora | 3-4 ft. | 5 ft. | Also a prostrate form 2 feet high. Sun, semi-shade. Semi-evergreen. |
| Carolina Yellow Jessamine | Gelsemium sempervirens | low | 3 ft. | Vine. Yellow, trumpet-like flowers. Hardy, one of best vines. Evergreen. Native to Georgia. |
| Carpet Blue | Ajuga reptans | 2-4 in. | 3 ft. | Needs good drainage, partial shade. Blue or white flowers. Evergreen. |
| Bearberry Cotoneaster | Cotoneaster dammeri | 2-4 ft. | 5 ft. | White flowers, red fruit. Sun. Evergreen. |
| Ground Cover Cotoneaster | Cotoneaster salicifoluis 'Repens' | 1-2 ft. | 5 ft. | White flowers, red fruit. Sun. Evergreen. |
| Rock Cotoneaster | Cotoneaster horizontalis | 1-2 ft. | 5 ft. | Semi-evergreen. Sun. |
| Virginia Creeper | Parthenocissue quinquefolia | low | 3 ft. | Red in fall. Vine. Deciduous. Native to Georgia. |
| Daylily | Hemerocallis spp. | 2-3 ft. | 2 ft. | Many flower colors. Full sun. Very hardy. |
| English Ivy | Hedera helix | low | 3 ft. | Shade only. Climbs. |
| Compacta Holly | Ilex crenata 'Compacta' | 3-4 ft. | 5 ft. | Sun, semi-shade. |
| Chinese Holly | Ilex cornuta 'Rotunda' | 3-4 ft. | 5 ft. | Very durable. Sun, semi-shade. |
| Dwarf Burford Holly | Ilex burfordii 'Nana' | 5-8 ft. | 8 ft. | |
| Dwarf Yaupon Holly | Ilex vomitoria 'Nana' | 3-4 ft. | 5 ft. | Very durable, sun, semi-shade. |



**Table 6-5.3. Durable Shrubs and Ground Covers for Permanent Cover**

| Common Name | Scientific Name | Mature Height | Plant Spacing | Comments |
|---|---|---|---|---|
| Repandens Holly | Ilex crenata 'Repandens' | 2-3 ft. | 5 ft. | Sun, semi-shade. |
| Andorra Juniper | Juniperus horizontalis 'Plumosa' | 2-3 ft. | 5 ft. | Excellent for slopes. Sun. |
| Andorra Compacta Juniper | Juniperus horizontalis 'Plumosa compacta' | 1-2 ft. | 5 ft. | More compact than andora. |
| Blue Chip Juniper | Juniperus horizontalis 'Blue Chip' | 8-10 in. | 4 ft. | |
| Blue Rug Juniper | Juniperus horizontalis 'Wiltonii' | 4-6 in. | 3 ft. | Very low. Sun. |
| Parsons Juniper | Juniperus davurica 'Expansa' (Squamata Parsoni) | 18-24 in. | 5 ft. | One of the best, good winter cover. |
| Pfitzer Juniper | Juniperus chinensis 'Pfitzerana' | 6-8 ft. | 6 ft. | Needs room. |
| Prince of Wales Juniper | Juniperus horizontalis 'Prince of Wales' | 8-10 in. | 4 ft. | Feathery appearance. |
| Sargent Juniper | Juniperus chinensis 'Sargentii' | 1-2 ft. | 5 ft. | Full sun. Needs good drainage. Good winter color. |
| Shore Juniper | Juniperus conferta | 2-3 ft. | 5 ft. | Emerald Sea or Blue Pacific cultivars are good. |
| Liriope | Liriope muscari | 8-10 in. | 3 ft. | |



**Table 6-5.3. Durable Shrubs and Ground Covers for Permanent Cover**

| Common Name | Scientific Name | Mature Height | Plant Spacing | Comments |
|---|---|---|---|---|
| Creeping Liriope | Liriope spicata | 10-12 in. | 1 ft. | Spreads by runners. |
| Big Leaf Periwinkle | Vinca major | 12-15 in. | 4 ft. | Lilac flowers in spring. Semi-shade. |
| Common Periwinkle | Vinca minor | 5-6 in. | 4 ft. | Lavender-blue flowers in spring. Semi-shade |
| Cherokee Rose | Rosa laevigata | 2 ft. | 5 ft. | Rampant grower. Not for restricted spaces. State flower. |
| Memoria Rose | Rosa weuchuriana | 2 ft. | 5 ft. | Rampant grower. |
| St. Johnswort | Hypericum calycenum | 8-12 in. | 3 ft. | Semi-shade. |
| Anthony Waterer Spirea | Spirea bumalda | 3-4 ft. | 5 ft. | Sun. |
| Thunberg Spirea | Spirea thinbergii | 3-4 ft. | 5 ft. | Sun. |



**Table 6-5.4.**

## Trees for Erosion Control

| SITE | SOIL MATERIAL | COMMON SOILS | PLANTING TREE SPECIES[1] | SPACING | PLANTING DATES[3] |
|---|---|---|---|---|---|
| Borrow areas, graded areas, and spoil material | Sandy | Lakeland, Troup | Loblolly pine (Pinus taeda)<br>Longleaf pine (Pinus palustris) | [2] | M-L,P 12/1-3/15<br>C 12/1-3/1 |
| | Loamy | Orangeburg, Tifton | Loblolly pine<br>Slash pine<br>Loblolly pine | [2] | M-L,P 12/1-3/15<br>C 12/1-3/1 |
| | Clay | Cecil, Faceville | Slash pine<br>Virginia pine (Pinus virginiana) | [2] | M-L,P 12/1-3/15<br>C 12/1-3/1 |
| Streambanks | | | Willows[4] (Salix speciecs) | 2 ft x 2 ft | ALL |

[1] Other trees and shrubs listed on Table 6-25.3 may be interplanted with the pines for improved wildlife benefits.

[2] Type of Planting — Tree Spacing — No. of Trees Per Acre
Trees alone — 4 ft. x 4 ft. — 2722
Trees in combination with grasses and/or other plants — 6 ft. x 6 ft. — 1210

[3] M-L represents the Mountains; Blue Ridge; and Ridges and Vallevs MLRAs
P represents the Southern Piedmont MLRA
C represents the Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods ML RAs (See Figure 6-4.1).

[4] Fertilization of companion crop is ample for this species.



D3 **DISTURBED AREA STABILIZATION (PERMANENT VEGETATION) 2 OF 2** NTS

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| CONSTRUCTION | XX-XX-XX |

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PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

INGENIUM Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETTIT
2/7/22

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GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

## Sediment Barrier Sd1

**DEFINITION**
Sediment Barriers are temporary structures made up of a porous material typically supported by steel or wood posts. Types of sediment barriers may include silt fence, brush piles, mulch berms, compost filter socks or other filtering material.

**PURPOSE**
To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposition and/or filtration of sediment at the structure. The barriers retain the soil on the disturbed land until the activities disturbing the land are completed and vegetation is established.

**CONDITIONS**
Barriers should be installed where runoff can be stored behind the barrier without damaging the submerged area behind the barrier or the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or other concentrated flow areas.

**DESIGN CRITERIA**
Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the profile of the product for use on the site.

Sediment Barriers should also provide a riprap splash pad or other outlet protection device for any point where flow may overtop the sediment barrier. Ensure that the maximum height of the barrier at a protected, reinforced outlet does not exceed 1 foot and that the support spacing does not exceed 4 feet.

Where all runoff is to be stored behind the sediment barrier (where no storm water disposal system is present), maximum continuous slope length behind a sediment barrier shall not exceed those shown in Table 6-27.1. For longer slope lengths, slope interrupters must be used. The drainage area shall not exceed ¼ acre for every 100 feet of sediment barrier.

**Table 6-27.1 Criteria for Sediment Barrier**

| Land Slope | Maximum Slope Length Above Fence |
|---|---|
| Percent | Feet |
| < 2 | 100 |
| 2 to 5 | 75 |
| 5 to 10 | 50 |
| 10 to 20 | 25 |
| >20* | 15 |

*In areas where the slope is greater than 20%, a flat area length of 10 feet between the toe of slope to the barrier should be provided.

**Placement**
The type of sediment barrier depends on whether the area is sensitive or nonsensitive. Sensitive areas can be defined as any area that needs additional protection, these areas include but are not limited to, state waters, wetlands, or any area the design professional designates as sensitive.

When using multiple types of sediment barriers on a site in a single run, the barriers must be overlapped 18 inches or as specified by design professional. See Figure 6-27.5

**CONSTRUCTION SPECIFICATIONS**

**Non-sensitive Areas *** Sd1-NS

Sediment barriers being used as Type NS shall have a support spacing of no greater than 6 feet on center, with each being driven into the ground a minimum of 18 inches.



**Sensitive Areas*** Sd1-S

Sediment barriers being used as Type S shall have a support spacing of no greater than 4 feet on center, with each being driven into the ground a minimum of 18 inches.

*As of January 1 2016, in the existing Georgia Department of Transportation Qualified Products list #36 (QPL- 36), Type A, B, or C will fall under sensitive and non-sensitive applications. **Type C will be classified as sensitive and Type A and B as non-sensitive.** Refer to Appendix A-2 and the Equivalent BMP List.

**PRACTICE CLASSIFICATIONS**

**For silt fence Type A, B, or C, refer to Table 6-27.4.**

**Type A Silt Fence**
This 36-inch wide filter fabric shall be used on developments where the life of the project is great than or equal to six months. **Type A is classified as non-sensitive application.**

**Type B Silt Fence**
Though only 22-inches wide, this filter fabric allows the same flow rate as Type A silt fence. Type B silt fence shall be limited to use on minor projects, such as residential home sites or small commercial developments where permanent stabilization will be achieved in less than six months. **Type B is classified as non-sensitive application.**

**Type C Silt Fence**
Type C fence is 36-inches wide with wire reinforcement or equivalent. The wire reinforcement is necessary because this fabric allows almost three times the flow rate as Type A silt fence. Type C silt fence shall be used where runoff flows or velocities are particularly high or where slopes exceed a vertical height of 10 feet. **Type C is classified as sensitive application.**

**Filter Media Sock Specifications**
Compost filter media used for sediment barrier filter material shall be weed free and derived from a well-decomposed source of organic matter. **Filter Media Sock is classified as a Type B, non-sensitive application.** The compost shall be produced using an aerobic composting process meeting CFR 503 regulations including time and temperature data. The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted without applicable water quality test results. Test methods for the items below should follow US Composting Council Test Methods for the Examination of Composting and Compost guidelines for laboratory procedures:

A. pH – 5.0-8.0 in accordance with TMECC 04.11-A, "Electrometric pH Determinations for Compost"

B. Particle size – 99% passing a 2 inch (50mm) sieve and a maximum of 40% passing a 3/8 inche (9.5mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification". (Note: In the field, product commonly is between ½ in./12.5mm and 2 in./50 mm in particle size.)

C. Moisture content of less than 60% in accordance with standardized test methods for moisture determination.

D. Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.

E. Sock containment system for compost filter media shall be a photodegradable or biodegradable knitted mesh material and should have 1/8 in. to 3/8 in., openings.

**Brush Barrier** Sd1-BB

**(Only during timber clearing operations)**

Brush obtained from clearing and grubbing operations may be piled in a row along the perimeter of disturbance at the time of clearing and grubbing. Brush barriers should not be used in developed areas or locations where aesthetics are a concern.

Brush should be wind-rowed on the contour as nearly as possible and may require compaction. Construction equipment may be utilized to satisfy this requirement.

The minimum base width of the brush barrier shall be 5 feet and should be no wider 10 feet. The height of the brush barrier should be between 3 and 5 feet tall.



A brush barrier is a good tool to use in developing pasture in an agricultural situation to prevent sediment from leaving the site until the pasture is stabilized.

If greater filtering capacity is required, a commercially available sediment barrier may be placed on the side of the brush barrier receiving the sediment-laden runoff. The lower edge of the fabric must be buried in a 6-inch deep trench immediately uphill from the barrier. The upper edge must be stapled, tied or otherwise fastened to the brush barrier. Edges of adjacent fabric pieces must overlap each other. See Figure 6-27.5.

**Installation**
Sediment barriers should be installed along the contour.

Temporary sediment barriers shall be installed according to the following specifications as shown on the plans or as directed by the design professional.

For installation of the barriers, See Figures 6-27.1, 6-27.2, 6-27.3 and 6-27.4, respectively. It is important to remember that not all sediment barriers need to be trenched into the ground but most taller sediment barriers do.

Post installation shall start at the center of a low point (if applicable) with the remaining posts spaced no greater than 6 feet apart for Type NS sediment barriers and no greater than 4 feet apart for Type C sediment barriers. For post size requirements, see Table 6-27.2. Fasteners for wood posts are listed in Table 6-27.3.

**Static Slicing Method**
The static slicing machine pulls a narrow blade through the ground to create a slit 12" deep, and simultaneously inserts the silt fence fabric into this slit behind the blade. The blade is designed to slightly disrupt soil upward next to the slit and to minimize horizontal compaction, thereby creating an optimum condition for compacting the soil vertically on both sides of the fabric. Compaction is achieved by rolling a tractor wheel along both sides of the slit in the ground 2 to 4 times to achieve nearly the same or greater compaction as the original undisturbed soil. This vertical compaction reduces the air spaces between soil particles, which minimizes infiltration. Without this compaction infiltration can saturate the soil, and water may find a pathway under the fence. When a silt fence is holding back several tons of accumulated water and sediment, it needs to be supported by posts that are driven 18 inches into the soil. Driving in the posts and attaching the fabric to them completes the installation.

**Trenching Method**
Trenching machines have been used for over twenty-five years to dig a trench for burying part of the filter fabric underground. Usually the trench is about 2-"6" wide with a 6" excavation. Post setting and fabric installation often precede compaction, which make effective compaction more difficult to achieve. EPA supported an independent technology evaluation (ASCE 2001), which compared three progressively better variations of the trenching method with static slicing method. The static slicing method performed better than two lower performance levels of the trenching method, and was as good as or better than the trenching method's highest performance level. The best trenching method typically required nearly triple the time and effort to achieve results comparable to the static slicing method.

***Along all state waters and other sensitive areas, two rows of Type S sediment barriers shall be used. The two rows of Type S should be placed a minimum of 36 inches apart.***

**MAINTENANCE**
**Sediment shall be removed once it has accumulated to one-half the original height of the barrier.**

Sediment barriers shall be replaced whenever they have deteriorated to such an extent that the effectiveness of the product is reduced (approximately six months) or the height of the product is not maintaining 80% of its properly installed height.

Temporary sediment barriers shall remain in place until disturbed areas have been permanently stabilized. All sediment accumulated at the barrier shall be removed and properly disposed of before the barrier is removed.

**TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN**
**When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.**



**REFERENCES:**
ASCE 2001, Environmental Technology Verification Report for Installation of Silt Fence Using the Tommy Static Slicing Method, CERF Report #40565. Washington, DC: American Society of Civil Engineers. www.epa.gov/etv/pubs/08_vs_tommy.pdf

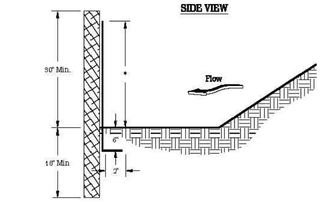
ASTM 2003. Standard Practice for Silt Fence Installation, D 6462-03(2008). West Conshohocken, PA: American Society of Testing Materials International. www.astm.org/SEARCH/search-reskin.html?query=D6462-03&siteType=store-standards&searchType=standards-full

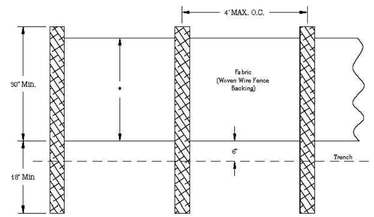
Carpenter, Thomas 2000. Silt Fence That Works. Ankey, Iowa: Thomas Carpenter. www.tommy-sfm.com/pages/resources/ Silt%20Fence%20That%20Works%20Manual.pdf
Fifield, Jerald S. 2011. Designing and Reviewing Effective Sediment and Erosion Control Plans, 3rd Edition. Santa Barbara, CA: Forester Press.

U.S. Environmental Protection Agency 2007. Developing Your Stormwater Pollution Prevention Plan, EPA 833-R-06-004. Washington: EPA. Available from EPA hardcopy 800-490-9198 or www.epa.gov/npdes/pubs/sw_swppp_guide.pdf



**SIDE VIEW**




**FRONT VIEW**

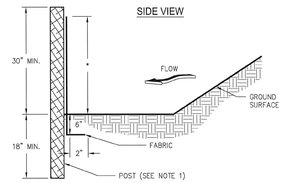
NOTES:
1. Use steel or wood posts or as specified by the EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. Height (*) is to be shown on the EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S **SILT FENCE - TYPE SENSITIVE**
N.T.S.

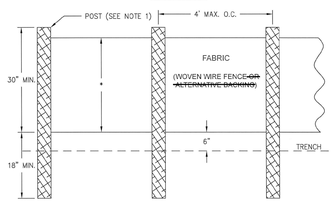
**Figure 6-20.6**

## SILT FENCE - TYPE C

SIDE VIEW




FRONT VIEW




NOTES:
1. USE STEEL ~~POSTS ONLY OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.~~
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

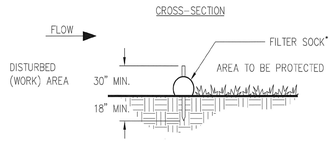
**Figure 6-27.2**



## EROSION AND SEDIMENT CONTROL

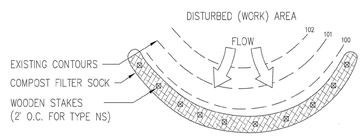
### TYPE B COMPOST FILTER SOCK

CROSS-SECTION




NOTE: FILTER SOCK SIZED TO SUIT CONDITIONS AND AT LEAST 18" DIA (SEE EQUIVALENT LIST)

PLAN



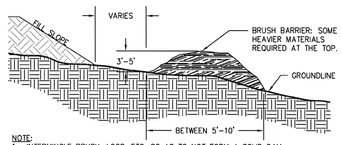

*HEIGHT IS TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

**Figure 6-27.3**



## SEDIMENT BARRIERS

BRUSH BARRIER SECTION




NOTE:
1. INTERMINGLE BRUSH, LOGS, ETC. SO AS TO NOT FORM A SOLID DAM.
2. BRUSH SHOULD BE WIND-ROWED ON THE CONTOUR AS CLOSE AS POSSIBLE.
3. MINIMUM BASE WIDTH FOR BARRIER SHALL BE 5 FEET AND SHOULD BE NO WIDER THAN 10 FEET. THE HEIGHT OF THE BARRIER SHOULD BE BETWEEN 3' AND 5'.
4. A COMMERCIALLY AVAILABLE FILTER FABRIC MAY BE PLACED ON THE SIDE OF THE BRUSH BARRIER RECEIVING SEDIMENT-LADEN RUNOFF FOR ADDED FILTER CAPACITY (LOWER EDGE MUST BE BURIED IN A 6 INCH DEEP TRENCH AND THE UPPER EDGE MUST BE FASTENED TO THE BRUSH BARRIER).

**Figure 6-27.4**



**Table 6-27.2 Post Size**

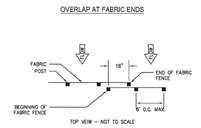
| Type | Min Length | Type of Post | Size of Post |
|---|---|---|---|
| NS | 4' | Soft wood Oak Steel | 3"dia or 2x4 1.5" x1.5" 1.15lb./ft. min |
| S | 4' | Steel Oak | 1.15-1.25 lb./ ft. min 2"x2" |

**Table 6-27.3 Fasteners for Wood Posts**

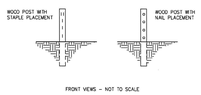
| | Gauge | Crown | Legs | Staples / Post |
|---|---|---|---|---|
| Wire Staples | 17 min. | 3/4" wide | 1/2" long | 5 min. |
| | Gauge | Length | Button Heads | Nail/ Post |
| Nails | 14 min. | 1" | 3/4" | 4 min. |
| Note: Filter Fabric may also be attached to the post by wire, cords, and pockets. | | | | |

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS




TOP VIEW – NOT TO SCALE




FRONT VIEWS – NOT TO SCALE

NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER.

**Figure 6-27.5**



**Table 6-27.4**

| TYPE FENCE | A | B | C |
|---|---|---|---|
| Tensile Strength (Lbs. Min.) (1) (ASTM D-4632) | Warp - 120 Fill - 100 | Warp - 120 Fill - 100 | Warp - 260 Fill - 180 |
| Elongation (% Max.) (ASTM D-4632) | 40 | 40 | 40 |
| AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751) | #30 | #30 | #30 |
| Flow Rate (Gal/Min/Sq. Ft.) (GDT-87) | 25 | 25 | 70 |
| Ultraviolet Stability (2) (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355) | 80 | 80 | 80 |
| Bursting Strength (PSI Min.) (ASTM D-3786 Diaphragm Bursting Strength Tester) | 175 | 175 | 175 |
| Minimum Fabric Width (Inches) | 36 | 22 | 36 |

(1) Minimum roll average of five specimens.

(2) Percent of required initial minimum tensile strength.

Sd1-S **SEDIMENT BARRIER** NTS

PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

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|---|---|---|
| | PRELIMINARY | 01/19/2022 |
| | BID | 02/07/2022 |
| | CONSTRUCTION | XX-XX-XX |

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PANDA PROJECT #: D8515
PANDA STORE #: 3536
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2/7/22

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TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

## Inlet Sediment Trap Sd2

**DEFINITION**
A temporary protective device formed at or around an inlet to a storm drain to trap sediment.

**PURPOSE**
To prevent sediment from entering a storm drainage systems prior to permanent stabilization of the disturbed area draining to the inlet.

**CONDITIONS**
All storm drain drop inlets that receive runoff from disturbed areas.

**DESIGN CRITERIA**
Through testing there are two different categories (high retention and high flow) supported. In areas where BMPs are being used on paved surfaces, or safety is a concern, the potentially negative effects of ponding should be taken into account. In such cases, a high flow BMP is preferred.

On unpaved areas where ponding will not cause a safety hazard, high retention shall be taken into account. If high retention is not used in this situation a rationale shall be given on the plan and an unpaved application should apply.

Sediment traps must be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard. The drainage area entering the inlet sediment trap shall be no greater than one acre.

If runoff may bypass the protected inlet, a temporary dike should be constructed on the down slope side of the structure. Also, a stone filter ring may be used on the up slope side of the inlet to slow runoff and filter larger soil particles. Refer to **Fr-Stone Filter Ring**.

**CONSTRUCTION SPECIFICATIONS**
**Excavated Inlet Sediment Trap**
An excavation may be created around the inlet sediment trap to provide additional sediment storage. The trap shall be sized to provide a minimum storage capacity calculated at the rate of 67 cubic yards per acre of drainage area. A minimum depth of 1.5 feet for sediment storage should be provided. Side slopes shall not be steeper than 2:1.

Sediment traps may be constructed on natural ground surface, on an excavated surface, or on machine compacted fill, provided they have a non-erodible outlet.

**Filter Fabric with Supporting Frame** Sd2 -F

This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 5%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. As shown in Figure 6-28.1, Type S silt fence supported by steel posts should be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be 36 inches tall and entrenched 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together around a post to provide a continuous fabric barrier around the inlet.

**Baffle Box** Sd2 -B

For inlets receiving runoff with a higher volume or velocity, a baffle box inlet sediment trap should be used. As shown in Figure 6-28.2, the baffle box shall be constructed of 2" x 4" boards spaced a maximum of 1 inch apart or of plywood with weep holes 2 inches in diameter. The weep holes shall be placed approximately 6 inches on center vertically and horizontally. Gravel shall be placed outside the box, all around the inlet, to a depth of 2 to 4 inches. The entire box is wrapped



in Type C filter fabric that shall be entrenched 12 inches and backfilled.

**Block and Gravel Drop Inlet Protection** Sd2 -Bg

This method of inlet protection is applicable where heavy flows are expected and where an overflow capacity is necessary to prevent excessive ponding around the structure. As shown in Figure 6-28.3, one block is placed on each side of the structure on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. The bottom row of blocks is placed against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, lateral support may be given to subsequent rows by placing 2" x 4" wood studs through block openings. Hardware cloth or comparable wire mesh with 1/2 inch openings shall be fitted over all block openings to hold gravel in place. Clean gravel should be placed 2 inches below the top of the block on a 2:1 slope or flatter and smoothed to an even grade. DOT #57 washed stone is recommended.

**Gravel drop Inlet Protection** Sd2-G

This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.4, stone and gravel are used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (#57 washed stone) should be used at a minimum thickness of 1 foot.

**Sod Inlet Protection** Sd2-S

This method of inlet protection is applicable only at the time of permanent seeding, to protect the inlet from sediment and mulch material until permanent vegetation has become established. As shown in Figure 6-28.5, the sod shall be placed to form a turf mat covering the soil for



a distance of 4 feet from each side of the inlet structure. Sod strips shall be staggered so that adjacent strip ends are not aligned.

**Curb Inlet Protection** Sd2-P

Once pavement has been installed, a curb inlet filter shall be installed on inlets receiving runoff from disturbed areas. This method of inlet protection shall be removed if a safety hazard is created.

One method of curb inlet protection uses "pigs-in-a-blanket"- 8-inch concrete blocks wrapped in filter fabric. See Figure 6-28.6. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material.

A gap of approximately 4 inches shall be left between the inlet filter and the inlet to allow for overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to possible ponding in the roadway, resulting in a hazardous condition. Several other methods are available to prevent the entry of sediment into storm drain inlets.

Figure 6-28.7 shows one of these alternative methods.

**MAINTENANCE**
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Sod inlet protection shall be maintained as specified in **Ds4 - Disturbed Area Stabilization (With Sodding).**

Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again.

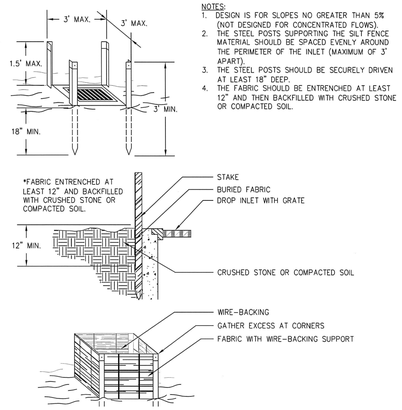
When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either



salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

## FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND TYPE C SILT FENCE INSTALLATION

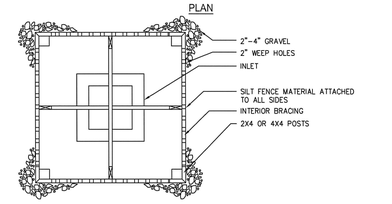



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

**Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection**



PLAN




SIDE

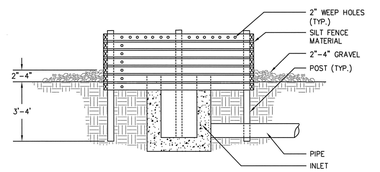
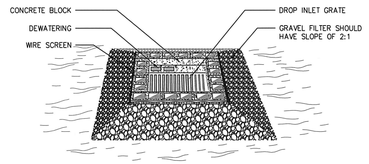


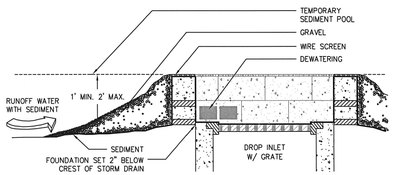

**Figure 6-28.2 Baffle Box**



BLOCK AND GRAVEL PERSPECTIVE




BLOCK AND GRAVEL SECTION




NOTE:
1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½ INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

**Figure 6-28.3 Block and Gravel Drop Inlet Protections**



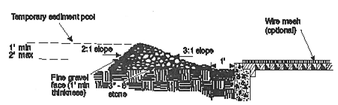



**Figure 6-28.4 Gravel Drop Inlet Protection**

SOD STRIPS PROTECT INLET AREA FROM EROSION
(SOURCE: VA SWCC)

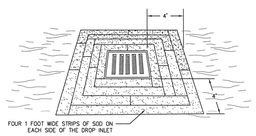
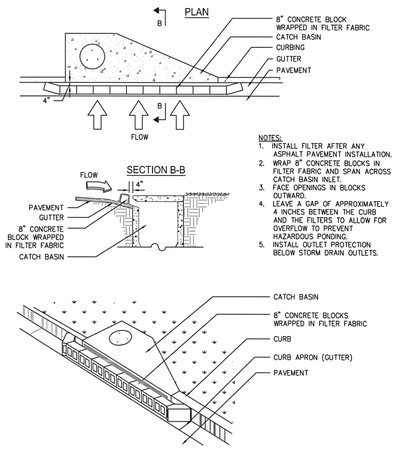



**Figure 6-28.5 Sod Inlet Protection**



## CURB INLET FILTER "PIGS IN BLANKET"




NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

**Figure 6-28.6 Curb Inlet Filter "Pigs in Blanket"**



Sd2 **INLET SEDIMENT TRAP** NTS

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TELEPHONE: 626.799.9898
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| | CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: 3536
ARCH PROJECT #: 2210604

INGENIUM Civil Engineering & Planning

GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT
2/7/22

ESPC DETAILS VII
C06.10

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

ERIK HOUSTON
Level II Certified Design Professional

CERTIFICATION NUMBER 0000064089
ISSUED: 10/01/2021 EXPIRES: 10/01/2024

# Storm Drain Outlet Protection

St

**DEFINITION**
Paved and/or riprapped channel sections, placed below storm drain outlets.

**PURPOSE**
To reduce velocity of flow before entering receiving channels below storm drain outlets.

**CONDITIONS**
This standard applies to all storm drain outlets, road culverts, paved channel outlets, etc., discharging into natural or constructed channels. Analysis and/or treatment will extend from the end of the conduit, channel or structure to the point of entry into an existing stream or publicly maintained drainage system.

**DESIGN CRITERIA**
Structurally lined aprons at the outlets of pipes and paved channel sections shall be designed according to the following criteria:

**Capacity**
Peak stormflow from the 25-year, 24-hour frequency storm or the storm specified in Title 12-7-1 of the Official Code of Georgia Annotated or the design discharge of the water conveyance structure, whichever is greater.

**Tailwater Depth**
The depth of tailwater immediately below the pipe outlet must be determined for the design capacity of the pipe. Manning's Equation may be used to determine tailwater depth. If the tailwater depth is less than half the diameter of the outlet pipe, it shall be classified as a Minimum Tailwater Condition. If the tailwater depth is greater than half the pipe diameter, it shall be classified as a Maximum Tailwater Condition. Pipes that outlet onto flat areas with no defined channel may be assumed to have a Minimum Tailwater Condition.

**Apron Length and Thickness**
The apron length and $d_{50}$, stone median size, shall be determined from the curves according to tailwater conditions:

Minimum Tailwater- Use Figure 6-34.1

Maximum Tailwater- Use Figure 6-34.2

Maximum Stone Size = 1.5 x $d_{50}$

Apron Thickness = 1.5 x dmax

**Apron Width**
If the pipe discharges directly into a well-defined channel, the apron shall extend across the channel bottom and up the channel banks to an elevation one foot above the maximum tailwater depth or to the top of the bank (whichever is less). If the pipe discharges onto a flat area with no defined channel, the width of the apron shall be determined as follows:

a. The upstream end of the apron, adjacent to the pipe, shall have a width three times the diameter of the outlet pipe.

b. For a Minimum Tailwater Condition, the downstream end of the apron shall have a width equal to the pipe diameter plus the length of the apron. Refer to Figure 6-34.1.

c. For a Maximum Tailwater Condition, the down stream end shall have a width equal to the pipe diameter plus 0.4 times the length of the apron. Refer to Figure 6-34.2.

**Bottom Grade**
The apron shall be constructed with no slope along its length (0.0% grade). The invert elevation of the downstream end of the apron shall be equal to the elevation of the invert of the receiving channel. There shall be no overfall at the end of the apron.

**Side Slope**
If the pipe discharges into a well-defined channel, the side slopes of the channel shall not be steeper than 2:1.



**Alignment**
The apron shall be located so that there are no bends in the horizontal alignment.

**Geotextile**
Geotextiles should be used as a separator between the graded stone, the soil base, and the abutments. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone. The geotextile shall be specified in accordance with AASHTO M288-06 Section 8, *Geotextile Property Requirements*. The geotextile should be placed immediately adjacent to the subgrade without any voids.

**Materials**
The apron may be lined with riprap, grouted riprap, or concrete. The median sized stone for riprap, $d_{50}$, shall be determined from the curves, Figures 6-34.1 and 6-34.2, according to the tailwater condition. The gradation, quality and placement of riprap shall conform to Appendix C.

Refer to Figure 6-34.4, for alternative structures to achieving energy dissipation at an outlet. For information regarding the selection and design of these alternative energy dissipators, refer to:

FHWA Standard (REF. Hydraulic Design of Energy Dissipators for Culverts and Channels: HEC No. 14, FHWA, Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

**CONSTRUCTION SPECIFICATIONS**

1. Ensure that the subgrade for the filter and riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness.
2. The riprap and gravel filter must conform to the specified grading limits shown on the plans.
3. Geotextile must meet design requirements and be properly protected from punching or tearing during installation. Repair any damage by removing the riprap and placing another piece of filter fabric over the damaged area. All connecting joints should overlap a minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.
4. Riprap may be placed by equipment, but take care to avoid damaging the filter.
5. The minimum thickness of the riprap should be 1.5 times the maximum stone diameter.
6. Construct the apron on zero grade with no overfall at the end. Make the top of the riprap at the downstream end level with the receiving area or slightly below it.
7. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper section of the apron.
8. Immediately after construction, stabilize all disturbed areas with vegetation.
9. Stone quality - Select stone for riprap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific gravity of the individual stones should be at least 2.5.
10. Filter - Install a filter to prevent soil movement through the openings in the riprap. The filter should consist of a graded gravel layer or a synthetic filter cloth. See Appendix C; p. C-1.

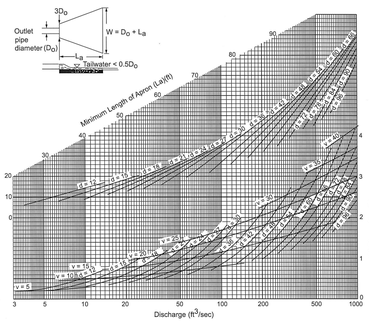
**MAINTENANCE**
Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.



TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1. The flow characteristics of the pipe at full flow including pipe diameter, flow rate (cfs), velocity (fps), and tailwater condition.
2. The dimensions of the apron including length (La), width at the headwall ($W_1$), downstream width ($W_2$), average stone diameter (d50), and stone depth (D) designed in accordance with Figures 6-34.1 and 6-34.2.

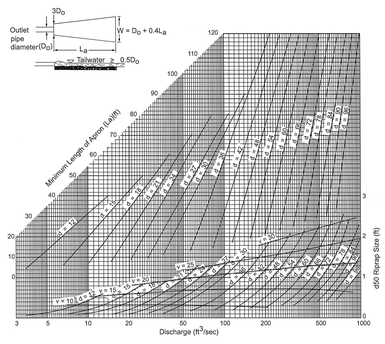





Curves may not be extrapolated.

**Figure 6-34.1 - Design of Outlet Protection From a Round Pipe Flowing Full, Minimum Tailwater Condition (Tw < 0.5 Diameter)**





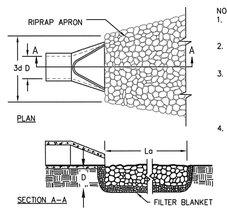

Curves may not be extrapolated.

**Figure 6-34.2 - Design of Outlet Protection From a Round Pipe Flowing Full, Maximum Tailwater Condition (Tw > 0.5 Diameter)**



## RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL




NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESSHAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL

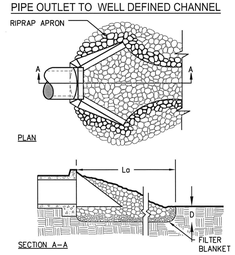



**Figure 6-34.3 - Riprap Outlet Protection (Modified From Va SWCC)**



## ALTERNATE STRUCTURES FOR ENERGY DISSIPATION AT AN OUTLET

(Modified from Goldman, Jackson, and Bursztynsky)

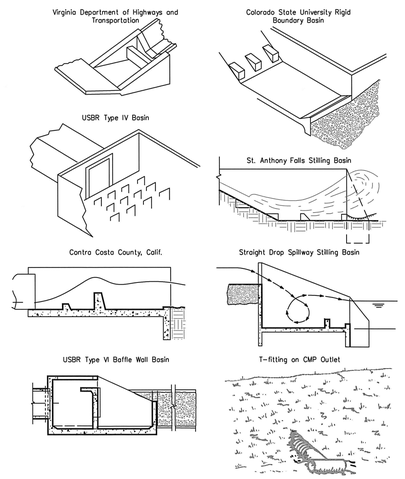



**Figure 6-34.4**



St **STROM OUTLET PROTECTION** NTS

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PANDA PROJECT #: D8515
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GEORGIA REGISTERED No. PE28748 PROFESSIONAL ENGINEER JEREMY M. PETITT 2/7/22

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C06.11

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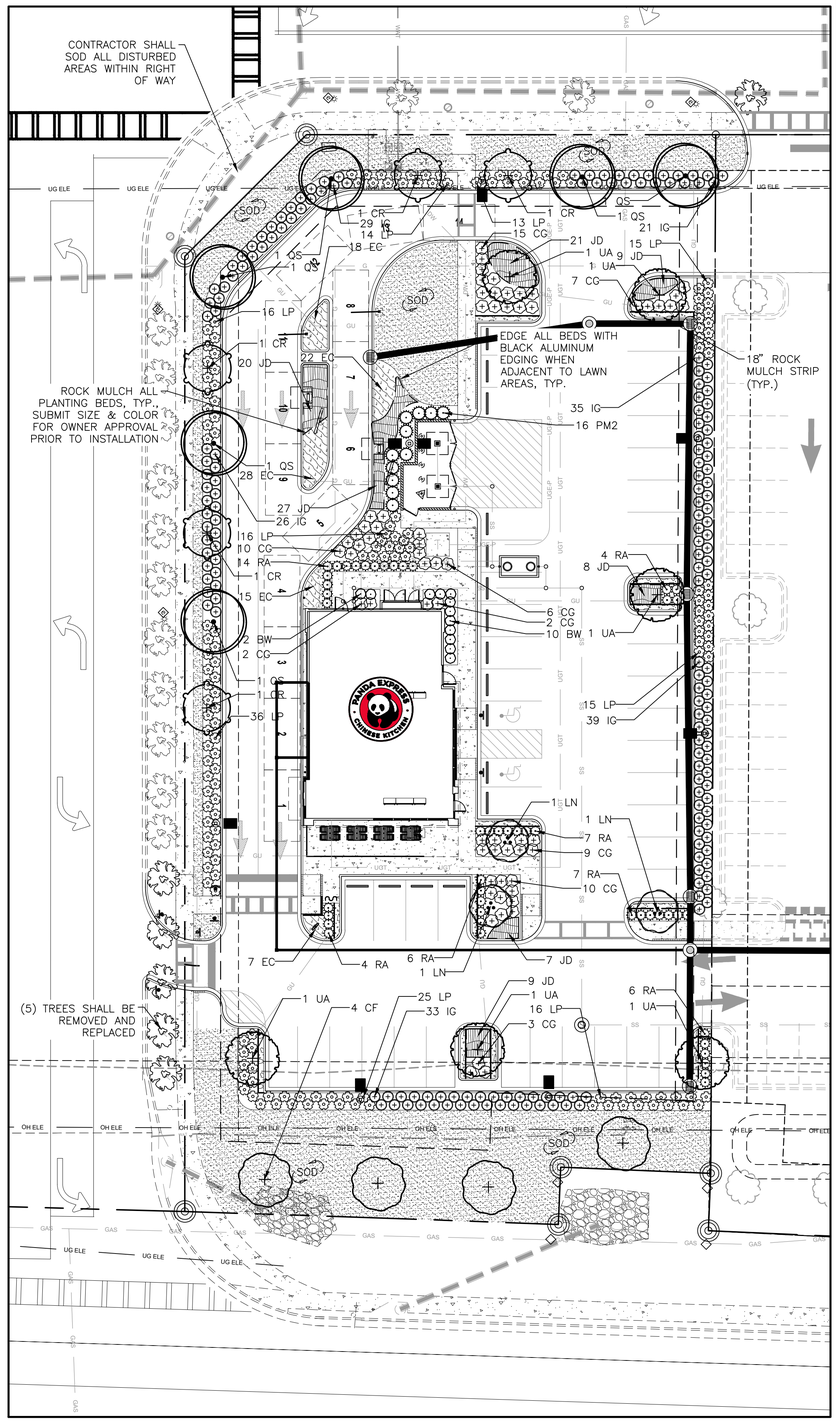


1 LANDSCAPE PLANTING PLAN
Scale: 1"= 20'

0 20' 40' NORTH

## PLANT SCHEDULE

| TREES | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT | CAL | HT | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | CF | 4 | CERCIS CANADENSIS `FOREST PANSY` | FOREST PANSY EASTERN REDBUD | 45 GAL | 2"CAL | | | MATCHED SPECIMAN AND STREET TREE QUALITY |
| | CR | 5 | CHIONANTHUS RETUSUS | CHINESE FRINGE TREE | 15 GAL | 2"CAL | | | FULL FORM AND SPECIMAN QUALITY |
| | LN | 3 | LAGERSTROEMIA INDICA `NATCHEZ` | `NATCHEZ` CRAPE MYRTLE | 30 GAL | | 8`-10` | | MINIMUM 3 TRUNKS; FULL HEAD |
| | QS | 6 | QUERCUS SHUMARDII | SHUMARD RED OAK | B & B | 4"CAL | 14`-16` | | FULL HEAD, SPECIMEN QUALITY |
| | UA | 6 | ULMUS PARVIFOLIA `ALLEE` | ALLEE LACEBARK ELM | B & B | 4"CAL | 14`-16` | | FULL HEAD, SPECIMEN QUALITY |
| **SHRUBS** | **CODE** | **QTY** | **BOTANICAL NAME** | **COMMON NAME** | **CONT** | **HT** | **W** | **SPACING** | **REMARKS** |
| | RA | 48 | ABELIA X GRANDIFLORA `ROSE CREEK` | ROSE CREEK ABELIA | 3 GAL | 24" | | 36" o.c. | FULL FORM |
| | BW | 12 | BUXUS MICROPHYLLA `WINTERGREEN` | WINTERGREEN BOXWOOD | 3 GAL | | | 36" o.c. | FULL FORM |
| | CG | 61 | CAMELLIA SASANQUA 'SHISHI GASHIRA' | SHISHI GASHIRA CAMELLIA | 3 GAL | | | 42" o.c. | FULL FORM |
| | IG | 183 | ILEX GLABRA 'SMNIGAB17' TM | GEM BOX INKBERRY HOLLY | 7 GAL | 24" | | 36" o.c. | FULL FORM, PARKING LOT SCREENING SHALL BE A MINIMUM OF 24" TALL AT THE TIME OF PLANTING. 3 GAL IS ACCEPTABLE AS LONG AS HEIGHT REQUIREMENT IS MET. |
| | LP | 154 | LOROPETALUM CHINENSE `RUBY` | RUBY LOROPETALUM | 7 GAL | 24" | | 36" o.c. | FULL FORM, PARKING LOT SCREENING SHALL BE A MINIMUM OF 24" TALL AT THE TIME OF PLANTING. 3 GAL IS ACCEPTABLE AS LONG AS HEIGHT REQUIREMENT IS MET. |
| | PM2 | 16 | PODOCARPUS MACROPHYLLUS | YEW PINE | 7 GAL | | | 48" o.c. | FULL FORM |
| **SHRUB AREAS** | **CODE** | **QTY** | **BOTANICAL NAME** | **COMMON NAME** | **CONT** | **HT** | **W** | **SPACING** | **REMARKS** |
| | JD | 101 | JUNIPERUS CHINENSIS `PARSONII` | PARSON`S JUNIPER | 3 GAL | | | 30" o.c. | FULL FORM |
| **GROUND COVERS** | **CODE** | **QTY** | **BOTANICAL NAME** | **COMMON NAME** | **CONT** | **HT** | | **SPACING** | |
| | EC | 86 | EUONYMUS FORTUNEI 'COLORATUS' | COLORATUS PURPLE WINTERCREEPER | 1 GAL | | | 24" o.c. | FULL FORM |
| **STONE MULCH** | **CODE** | **QTY** | **BOTANICAL NAME** | **COMMON NAME** | **CONT** | **HT** | | **SPACING** | |
| | SM | 261 SF | MULCH | STONE MULCH | MULCH | | | | QTY. SHOWN ACCOUNTS FOR ISLAND STRIPS ONLY. QTY. FOR PLANT BEDS TBD BY CONTRACTOR |
| **SOD/SEED** | **CODE** | **QTY** | **BOTANICAL NAME** | **COMMON NAME** | **CONT** | **HT** | | **SPACING** | |
| | SOD | 7,389 SF | CYNODON DACTYLON `TIFWAY 419` | TIFWAY 419 BERMUDA GRASS | SOD | | | | |

## IRRIGATION SYSTEM NOTES (DESIGN BUILD)

1. THE CONTRACTOR SHALL DESIGN AND INSTALL AN IRRIGATION SYSTEM FOR ALL LANDSCAPING ON-SITE.
2. RAIN BIRD SYSTEM OR EQUIVALENT SHALL BE USED.
3. SEE KITCHEN ELEVATION FOR LOCATION OF THE IRRIGATION CONTROL BOX.
4. DRIP IRRIGATION IS REQUIRED IN BUILDING PLANTERS.
5. RAIN BIRD RSD SERIES RAIN SENSOR, OR EQUIVALENT, SHALL BE INCLUDED IN THE DESIGN AND INSTALLATION. CONSULT PANDA EXPRESS PROJECT MANAGER FOR PLACEMENT.
6. LOCATE ALL UTILITIES BEFORE DIGGING. PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
7. PLACE IRRIGATION LINES WITHIN PLANTING AND TURF AREAS UNLESS SLEEVING IS INDICATED. ROUTE PIPING TO AVOID TREE LOCATIONS. LOCATE MAINLINE AND VALVE BOXES WITHIN PROPERTY LINES.
8. PROCURE ALL NECESSARY PERMITS TO COMPLETE INSTALLATION OF IRRIGATION SYSTEM PER STATE AND LOCAL CODES.
9. PROVIDE SLEEVING UNDER PAVEMENT AND SIDEWALKS TO ACCOMMODATE LATERAL LINES, MAIN LINES, AND/OR CONTROL WIRE.
10. PROVIDE A MINIMUM 12" COVER OVER LATERAL LINES AND A MINIMUM OF 18" COVER OVER MAINLINES.
11. INSTALL ALL ELECTRICAL SERVICE TO MEET LOCAL CODES.
12. PROVIDE POP-UP SPRINKLERS ONLY. MOUNT SPRINKLERS ON POLY PIPE WITH BARBED FASTENERS UNLESS OTHERWISE SPECIFIED IN JURISDICTIONAL REGULATIONS.
13. MOUNT HEADS FLUSH WITH FINISHED GRADE. INSTALL HEADS 6" OFF ALL SIDEWALKS AND 1' FROM BUILDING WALLS.
14. INSTALL VALVES IN 15" BOXES WITH TAMPER RESISTANT LIDS.
15. ALL IRRIGATION CONTROL WIRE TO BE 14-GAUGE WIRE. PROVIDE WHITE FOR COMMON, RED FOR HOT, AND A SPARE BLUE WIRE PARALLEL TO COMMON THROUGHOUT THE ENTIRE SYSTEM.
16. MAKE ALL WIRE SPLICES WITH WATERPROOF SPLICE KITS RATED FOR DIRECT BURIAL. NEATLY COIL 30" OF SLACK WIRE IN VALVE BOX.
17. ADJUST HEADS TO MAXIMIZE COVERAGE AND MINIMIZE OVERSPRAY.
18. PROVIDE DRIP IRRIGATION ONLY AROUND MENUBOARD AND ORDER CANOPY.

## NOTES

1. PROVIDE 18" ROCK MULCH STRIP ADJACENT TO ALL PARKING.
2. PROVIDE RIVER ROCK MULCH AROUND BASE OF ALL TREES.
3. RIVER-ROCK MULCH ALL LANDSCAPE BEDS UNLESS SPECIFICALLY PROHIBITED BY THE JURISDICTIONS.
4. SOD TYPE SHALL MATCH THAT OF THE SURROUNDING DEVELOPMENT. VERIFY TYPE OF SOD WITH OWNER PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL PROVIDE MULCH MATERIAL SAMPLE TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.

COVINGTON, GA LANDSCAPE REQUIREMENTS

**Canopy Requirements**

Net Site Area: 1.00 acres or 43,560 sf
Canopy Required @7.8% 0.28 acres or **12,110 sf**

**Canopy Coverage Provided**

Existing Canopy: 0 acres or **0 sf**
0 sf of existing tree canopy claimed for tree credit
Proposed Canopy: 0.25 acres or **19,250 sf**
19,250 sf PROP. > 12,110 sf REQ.

| Key | Scientific Name | Comon Name | Size | Qty. | Canopy Coverage Per Tree | Type of Root Stock | Total Canopy Coverage Provided |
|---|---|---|---|---|---|---|---|
| LARGE DECIDUOUS TREE | | | | | | | |
| QS | Quercus shumardii | Shumard Red Oak | 4 in | 7 | 1600 sf | B&B | 11,200 sf |
| MEDIUM DECIDUOUS TREE | | | | | | | |
| UA | Ulmus parvifolia 'Allee' | Allee Lacebark Elm | 4 in | 6 | 900 sf | B&B | 5400 sf |
| VERY SMALL DECIDUOUS TREE | | | | | | | |
| CR | Chionanthus Retusus | Chinese Fringe Tree | 2 in | 5 | 150 sf | 30 gal. | 750 sf |
| CC | Cercis canadensis | Eastern Redbud | 2 in | 4 | 400 sf | 30 gal. | 1600 sf |
| LN | Lagerstroemia indica 'Natchez' | Natchez' Crape Myrtle | 2 in | 3 | 150 sf | 30 gal. | 300 sf |
| | | | | | Total Canopy: | | **19,250 sf** |

**Minimum Greenspace**

Landscape Openspace Required: 20%
Total Buildable Area: 43,560 sf
Min. Landscape Openspace sf: **8,712 sf**
Total Proposed Landscape sf: **13,465 sf**
13,465 sf PROP. > 8,712 sf REQ.

**Interior Parking Lot Landscaping requirements**

Canopy Trees Required: Every parking space must be within 165' from a tree
1 island/ 7 spaces
Total Parking Spaces: 45 parking spaces
Total Trees Required **6 trees**
Total Proposed Canopy Trees: **9 trees**
9 trees PROP. = 6 trees REQ.

**Buffer Landscaping requirements**

Overstory Trees Required: 1 tree/ 50 LF
Total LF of Alcovy Drive ROW: 151 LF
Total Trees Required **3 trees**
Total Proposed Trees: **4 trees**
4 trees PROP. > 3 trees REQ.

CALL BEFORE YOU DIG

**CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF LANDSCAPE FOR 90 DAYS FOLLOWING INSTALLATION.**

**CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.**

**CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.**

**24-HOUR CONTACT:**
**JOE CELENTO**
**912-272-4811**

PANDA EXPRESS CHINESE KITCHEN

**PANDA EXPRESS, INC.**
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
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| ISSUE FOR PERMIT | 09-24-2021 |
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PANDA STORE #: TBD
ARCH PROJECT #:

ingenium ENTERPRISES
PLANNING & ENGINEERING

GEORGIA REGISTERED No. 1872 PROFESSIONAL LANDSCAPE ARCHITECT 01/24/22 JAMES LANE ACV

LP200

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

DELIVERY, STORAGE AND HANDLING:

A. DELIVER MATERIALS IN SUCH A MANNER AS TO NOT DAMAGE OR DECREASE THE HEALTH AND VIGOR OF THE PLANT MATERIALS.

B. STORE MATERIALS AWAY FROM DETRIMENTAL ELEMENTS. COORDINATE WITH GENERAL CONTRACTOR TO SECURE A SAFE STAGING AREA.

C. HANDLE, LOAD, UNLOAD, AND TRANSPORT MATERIALS CAREFULLY TO AVOID DAMAGE.

D. MAINTAIN AND PROTECT PLANT MATERIALS AS NECESSARY TO INSURE HEALTH AND VIGOR.

GUARANTEE:

GUARANTEE PLANT MATERIALS AND LAWN AREAS FOR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. CONTRACTOR SHALL REPLACE PLANTS AND LAWNS, THAT FAIL TO GROW PROPERLY WITH PLANTS AS ORIGINALLY SPECIFIED AT THE EARLIEST PRACTICAL DATE FOLLOWING PLANT FAILURE, WITHOUT ADDITIONAL CHARGES TO THE OWNER. REPLACEMENT MATERIALS WILL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF REPLACEMENT. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR REPLACING PLANTS WHICH ARE DAMAGED BY ABUSE OR IMPROPER MAINTENANCE BY OWNER, OR BY ACTS OF GOD OCCURRING AFTER ACCEPTANCE.

MATERIAL FOR STAKING:

A. STAKES FOR SUPPORTING TREES SHALL BE SOUND TIMBER, STRAIGHT, SIZED AS SHOWN IN PLANTING DETAILS AND OF SUFFICIENT LENGTH TO ADEQUATELY SUPPORT THE PLANT.

B. DEADMEN OR STAKES FOR ANCHORING STRAPS IN THE GROUND SHALL BE OF SIZE MATERIAL, AND STRENGTH ADEQUATE TO HOLD STRAPS TOUT AND MAINTAIN TREE FIRMLY IN AN UPRIGHT POSITION.

GUYING, STAKING AND MULCHING:

A. USE ARBORTIE OR EQUIVALENT FOR ANY NEEDED STAKING TO ELIMINATE USE OF WIRE AND HOSE. STRAPS SHALL BE WIDE, SOFT, FLEXIBLE MATERIAL MANUFACTURED FOR THE PURPOSE OF TREE ANCHORING SUCH AS WOVEN POLYPROPYLENE WEBBING. ANY STAKING MATERIAL IS TO BE REMOVED AFTER THE FIRST GROWING SEASON.

B. STAKE TREES TWO-INCH CALIPER AND OVER. SPACE THREE STRAPS EQUALLY ABOUT EACH TREE, ATTACHED AT APPROXIMATELY TWO-FIFTHS UP THE TRUNK. STRAPS SHOULD BE AT A 45-DEGREE ANGLE AND ANCHORED IN THE GROUND WITH STAKES. THESE STRAPS SHALL BE EQUALLY TOUT.

C. STAKE TREES LESS THAN TWO INCHES CALIPER WITH TWO OR THREE WOOD STAKES DRIVEN TWO FEET INTO THE GROUND WITH THE PORTION EXTENDING ABOVE THE GROUND APPROXIMATELY ONE-HALF OF THE TRUNK HEIGHT. STAKE ONE FOOT FROM TRUNK, FASTENED AT APPROXIMATELY TWO-FIFTHS OF TRUNK HEIGHT.

D. PRIOR TO INSTALLING MULCH MATERIAL, ALL PLANTING BEDS SHALL BE COVERED WITH LANDSCAPE FABRIC IN AN EFFORT TO REDUCE WEEDS. LANDSCAPE FABRIC SHALL BE DEWITT 5 OZ GEOTEXTILE OR APPROVED EQUAL. TWO TO THREE INCHES OF MULCH MATERIAL SHALL BE PLACED ON TOP OF THE LANDSCAPE FABRIC.

E. MULCH ALL PLANTING BEDS AND OTHER AREAS DESIGNATED TO BE MULCHED (WITH THE EXCEPTION OF ANY ANNUAL, SEASONAL COLOR OR PERENNIAL BEDS) WITH TWO TO THREE INCHES OF RIVER ROCKS. ROCKS SHALL BE BETWEEN 1" AND 3" IN SIZE. CONTRACTOR TO PROVIDE A MULCH MATERIAL SAMPLE TO OWNER PRIOR TO INSTALLATION FOR COLOR AND SIZE APPROVAL. ANY LANDSCAPE BEDS NOTED AS ANNUAL, SEASONAL COLOR AND/OR PERENNIAL BEDS SHALL BE MULCHED WITH SMALL SIZED PEA GRAVEL SUCH AS INDIANA PEA GRAVEL. CONTRACTOR TO PROVIDE A MATERIAL SAMPLE TO OWNER PRIOR TO INSTALLATION FOR COLOR AND SIZE APPROVAL. ALL RIVER ROCKS SHALL BE RINSED CLEAN ON SITE PRIOR TO INSTALLATION IN PLANTING BEDS.

EXCAVATION FOR PLANTING TREES AND SHRUBS:

A. CIRCULAR PLANT PITS WITH VERTICAL SIDES SHALL BE DUG BY HAND OR MACHINE METHODS FOR PLANTING OF TREES AND SHRUBS.

B. TREE PIT DIAMETERS SHALL BE A MINIMUM OF TWO FEET GREATER THAN THE SPREAD OF THE ROOT MASS.

C. SHRUB PIT DIAMETER SHALL BE A MINIMUM OF ONE FOOT GREATER THAN THE SPREAD OF THE ROOT MASS.

D. CONTRACTOR SHALL TEST EXCAVATED PLANT PITS TO SATISFY THAT SUFFICIENT DRAINAGE IS PRESENT FOR PROPER PLANT SURVIVAL.

E. IF THE INDIVIDUAL PITS ARE ARRANGED IN A GROUP, THE AREA BETWEEN PITS SHALL BE FILLED TO THE REQUIRED GRADE WITH EXISTING SOIL AND MULCHED WITH MULCH MATERIAL THREE INCHES DEEP. PLANT BEDS SHALL BE NEATLY EDGED AND KEPT FREE OF WEEDS UNTIL THE WORK IS ACCEPTED.

TOPSOIL:

TOPSOIL SHALL BE FERTILE, FRIABLE, SANDY LOAM, AND SHALL BE NATURAL SURFACE SOIL OBTAINED FROM WELL DRAINED AREAS. TOPSOIL SHALL BE CHARACTERISTIC OF REPRESENTATIVE SOILS IN THE PROJECT VICINITY THAT PRODUCE HEAVY GROWTHS OF CROPS, GRASS OR OTHER VEGETATION. TOPSOIL SHALL BE FREE OF SUBSOIL, BRUSH, ORGANIC LITTER, OBJECTIONABLE WEEDS, CLAY, CLOTS, STUMPS, ROOTS OR OTHER MATERIAL HARMFUL TO PLANT GROWTH OR HINDRANCE TO PLANTING OR MAINTENANCE OPERATIONS. SHOULD REGENERATIVE MATERIALS BE PRESENT IN THE SOIL, CONTRACTOR SHALL ERADICATE AND REMOVE SUCH GROWTH, BOTH SURFACE AND ROOT, WHICH MAY APPEAR IN THE IMPORTED MATERIAL WITHIN ONE YEAR FOLLOWING ACCEPTANCE OF THE WORK. TOPSOIL SHALL NOT BE HANDLED IN A FROZEN OR MUDDY CONDITION. THE ACIDITY RANGE SHALL BE BETWEEN 5.0 AND 7.0 INCLUSIVE.

FERTILIZER:

A. FERTILIZER FOR ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE STA GREEN NURSERY SPECIAL OR EQUIVALENT AND DELIVERED TO THE SITE IN UNOPENED CONTAINERS.

B. FERTILIZER FOR GRASS SHALL BE STA-GREEN FERTILIZER OR EQUIVALENT CONTAINING THE FOLLOWING PERCENTAGES BY WEIGHT:
10% NITROGEN
24% PHOSPHOROUS
10% POTASH

C. FERTILIZER SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING, AND SHALL LIST THE MANUFACTURER'S GUARANTEED ANALYSIS. FERTILIZER SHALL NOT HAVE BEEN EXPOSED TO WEATHER PRIOR TO DELIVERY TO THE SITE. AFTER DELIVERY UNTIL USED, IT SHALL BE COMPLETELY PROTECTED AT ALL TIMES. IT SHALL NOT BE STORED IN CONTACT WITH THE THE GROUND.

LANDSCAPE BED EDGING:

ALL BEDS MULCHED WITH RIVER ROCK SHALL BE EDGED WHEN ADJACENT TO LAWN AREAS. EDGING SHALL BE ALUMINUM AND BLACK IN COLOR, PERMALOC ALUMINUM ALLOY BLACK ANODIZED EDGING OR EQUIVALENT.

DRAINAGE TEST

A. REPRESENTATIVE TREE AND SHRUB PITS FROM EACH PLANTING AREA SHALL BE FILLED WITH WATER. IF PERCOLATION IS LESS THAN 100 TWELVE-INCH AUGER TO A DEPTH OF FOUR FEET BELOW THE BOTTOM OF THE TREE PIT, RETEST THE PIT. IN CASE DRAINAGE IS STILL UNSATISFACTORY NOTIFY THE LANDSCAPE ARCHITECT, IN WRITING OF THE CONDITION BEFORE PLANTING TREES IN THE QUESTIONABLE AREAS. CONTRACTOR IS FULLY RESPONSIBLE FOR THE WARRANTY OF PLANTINGS.

B. GROUNDCOVER BEDS SHALL ALSO BE SPOT TESTED FOR DRAINAGE.

C. DISPOSE OF SUBSOIL REMOVED FROM LANDSCAPE EXCAVATIONS. DO NOT MIX WITH THE PLANTING SOIL. DO NOT USE AS BACKFILL OR USE TO CONSTRUCT SAUCERS AROUND PITS.

SETTING TREES, SHRUBS AND GROUNDCOVERS:

A. BALLED AND CONTAINER PLANTS SHALL BE PLACED FIRMLY UPON SCARIFIED SUB-GRADE AND BACKFILLED WITH PLANTING SOIL MIXTURE. REMOVE ALL WIRE, CARDS AND BURLAP FROM TOP OF ROOT BALL. HAND TAMP CAREFULLY AROUND AND UNDER BALL TO FILL ALL VOIDS. WATER DURING BACKFILLING. FORM SAUCER FROM PLANTING SOIL MIXTURE IN ORDER TO RETAIN WATER.

B. GENTLY LOOSEN OUTER ROOTS OF CONTAINER GROWN PLANTS TO ENCOURAGE OUTWARD GROWTH.

C. FERTILIZER SHALL BE THOROUGHLY MIXED AND SOAKED INTO THE TOP TWO INCHES OF SOIL FOR ALL PLANT PITS.

TREE TRANSPORTATION:

THE CONTRACTOR SHALL BE RESPONSIBLE NOT ONLY FOR THE SAFE TRANSPORTATION OF THE PLANTS TO THE SITE BUT ALSO THEIR CONDITION UPON ARRIVAL. TREES WITH ABRASIONS OF THE BARK, SUNSCALDS, FRESH CUTS OR BREAKS OF LIMBS WHICH HAVE NOT COMPLETELY CALLOUSED WILL BE REJECTED. TREES WHICH HAVE BEEN DAMAGED DURING TRANSIT WILL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST. ALL PLANT UNIT COSTS WILL REFLECT ALL THE ABOVE LISTED SPECIFICATIONS.

PRUNING:

A. DECIDUOUS TREES AND SHRUBS SHALL HAVE DEAD, BROKEN AND CROWDED WOOD PRUNED TO COMPENSATE FOR THE LOSS OF ROOTS IN TRANSPLANTING. REQUESTED AND REQUIRED ADDITIONAL PRUNING MAY BE NECESSARY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.

B. EVERGREEN TREES AND SHRUBS SHALL BE PRUNED ONLY TO THINK OUT HEAVY GROWTH.

C. CUTS OVER 3/4 INCH IN DIAMETER SHALL BE PAINTED WITH TREE DRESSING PAINT. NO PAINT CONTAINING LEAD SHALL BE PERMITTED.

PREPARATION OF GRASS AREAS:

A. FINE GRADE ALL GRASS AREAS TO FINISH GRADE. ALL AREAS SHALL HAVE SMOOTH AND CONTINUAL GRADE BETWEEN THE EXISTING AND FIXED CONTROLS SUCH AS WALKS AND CURBS. ROLL, SCARIFY, RAKE AND LEVEL AS NECESSARY TO OBTAIN TRUE, EVEN AND FIRM LAWN SURFACES. ALL FINISHED GRADES SHALL MEET APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE GRASSING OPERATIONS BEGIN.

B. AREAS TO RECEIVE GRASS
I. TYPE OF TURF TO BE APPROVED BY OWNER.
II. CONTRACTOR TO BE RESPONSIBLE FOR FIELD VERIFICATION OF SOD AREAS TO CONFIRM SQUARE FOOTAGES.
III. GRADE WILL BE BROUGHT TO THE LEVEL OF +/- 1" OF THE FINISHED GRADE BY THE GENERAL CONTRACTOR. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE TOP +/- 1" OF SOIL WORK. THIS IS TO INCLUDE ALL TOPSOIL HAULING AND PLACEMENT; SPREADING; DEBRIS REMOVAL AND ANY GRADING REQUIRED TO BRING THE FINISHED TOPSOIL GRADE TO THE PROPER LEVEL FOR GRASS.
IV. THOROUGHLY TILL EXISTING SOIL TO A MINIMUM DEPTH OF FOUR INCHES BY RUNNING TILLING DEVICE TWO DIRECTIONS AT RIGHT ANGLES OVER THE ENTIRE SURFACE TO BE GRASSED. FINE GRADE TO ACHIEVE UNIFORMITY AND DRAINAGE.
V. SPREAD SPECIFIED FERTILIZER AS PER MANUFACTURER'S RECOMMENDATIONS.
VI. WORK SOIL TO A UNIFORM GRADE SO THAT ALL AREAS HAVE POSITIVE DRAINAGE AWAY FROM DRIVES, BUILDINGS AND LANDSCAPED AREAS.
VII. CONTRACTOR TO COORDINATE WITH OWNER FOR TURF SELECTION PRIOR TO INSTALLATION.

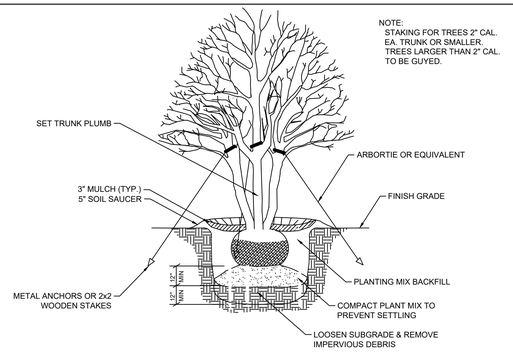
CLEANUP & PROTECTION:

A. DURING PLANTING OPERATIONS KEEP PROJECT SITE CLEAN AND ORDERLY.

B. UPON COMPLETION OF WORK, CLEAR GROUNDS OF DEBRIS, SUPERFLUOUS MATERIALS AND ALL EQUIPMENT. REMOVE FROM SITE TO SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER.

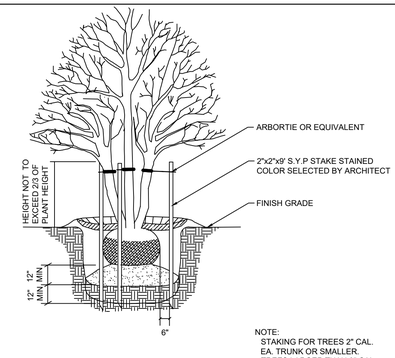
C. PROTECT ALL WORK AND MATERIALS FROM DAMAGE DUE TO IRRIGATION OPERATIONS AND OPERATIONS BY OTHER CONTRACTORS, TRADES, AND TRESPASSERS. MAINTAIN PROTECTION UNTIL DATE OF SUBSTANTIAL COMPLETION.

D. CONTRACTOR IS RESPONSIBLE FOR THEFT OF EQUIPMENT AND MATERIAL AT THE JOB SITE BEFORE, DURING AND AFTER INSTALLATION, UNTIL DATE OF SUBSTANTIAL COMPLETION OF THE WORK IN TOTAL.



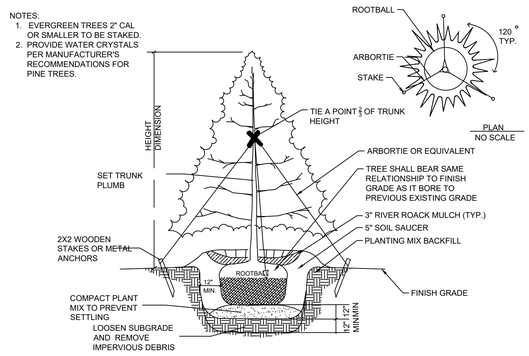

## 1 DETAIL MULTI-TRUNKED TREE PLANTING

NOTE: ALL TREES MUST BE PLANTED AT LEAST 10' FROM ALL UTILITY LINES



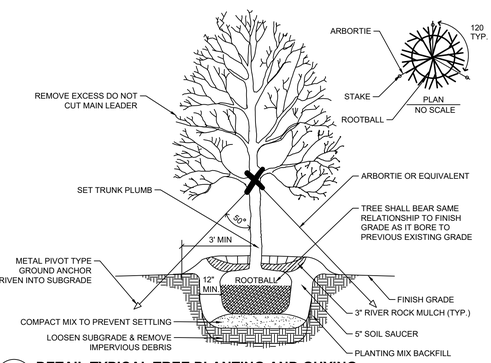

## 2 DETAIL MULTI-TRUNKED TREE STAKING

NOTE: ALL TREES MUST BE PLANTED AT LEAST 10' FROM ALL UTILITY LINES

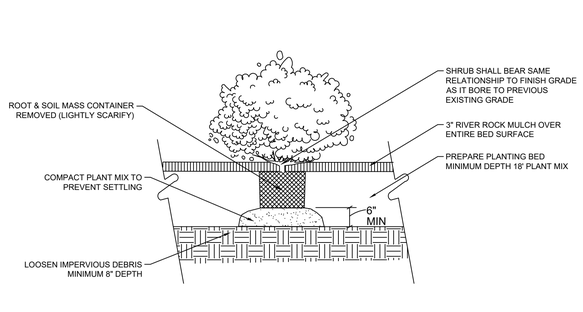



## 3 DETAIL EVERGREEN TREE PLANTING

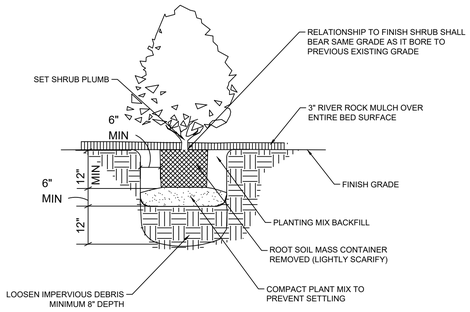
NOTE: ALL TREES MUST BE PLANTED AT LEAST 10' FROM ALL UTILITY LINES



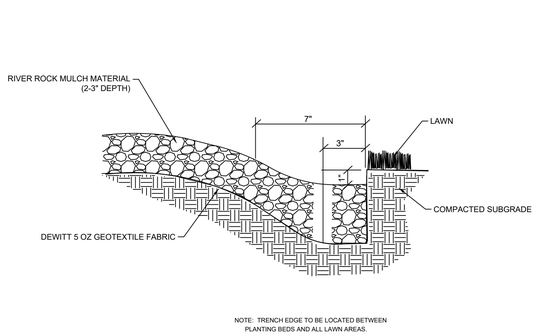

## 4 DETAIL TYPICAL TREE PLANTING AND GUYING



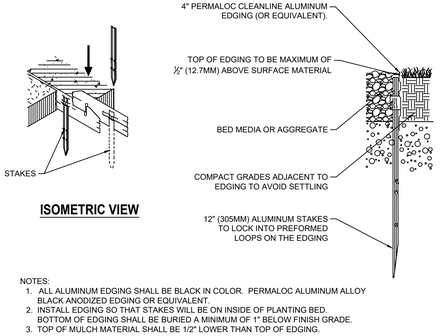

## 5 DETAIL TYPICAL FOR ALL PLANTS SPACED LESS THAN 36" O.C.




## 6 DETAIL TYPICAL CONTAINERIZED SHRUB PLANTING




## 7 TRENCH EDGER DETAIL FOR ALL BEDS




NOTES:
1. ALL ALUMINUM EDGING SHALL BE BLACK IN COLOR. PERMALOC ALUMINUM ALLOY BLACK ANODIZED EDGING OR EQUIVALENT.
2. INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED. BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE.
3. TOP OF MULCH MATERIAL SHALL BE 1/2" LOWER THAN TOP OF EDGING.

## 8 ALUMINUM LANDSCAPE BED EDGING


PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288


REVISIONS:

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ISSUE DATE:

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| | PRELIMINARY | 06-18-2021 |
| | ISSUE FOR PERMIT | 09-24-2021 |
| | ISSUE FOR PERMIT | 01-24-2022 |

DRAWN BY: INGENIUM

PANDA PROJECT #: D8515
PANDA STORE #: TBD
ARCH PROJECT #:

ingenium ENTERPRISES
PLANNING & ENGINEERING

GEORGIA REGISTERED No. 1875 PROFESSIONAL 01/24/22 LANDSCAPE ARCHITECT JAMES D. LANE, ASLA

LP500

TRUE WARM & WELCOME 2300
ALWAYS INCLUDE WHAT DD# IS

**Schedule**

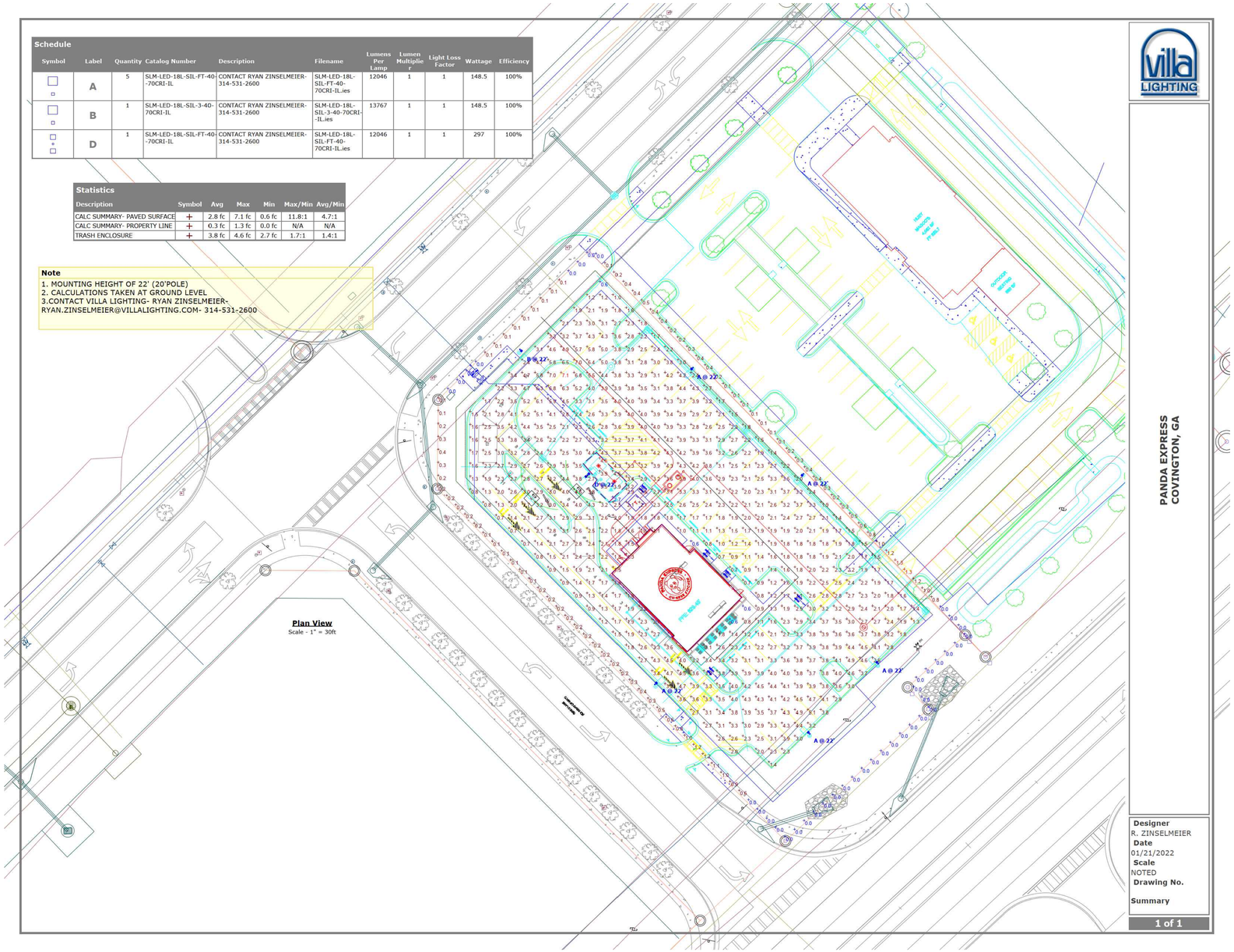
| Symbol | Label | Quantity | Catalog Number | Description | Filename | Lumens Per Lamp | Lumen Multiplier | Light Loss Factor | Wattage | Efficiency |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | 5 | SLM-LED-18L-SIL-FT-40-70CRI-IL | CONTACT RYAN ZINSELMEIER-314-531-2600 | SLM-LED-18L-SIL-FT-40-70CRI-IL.ies | 12046 | 1 | 1 | 148.5 | 100% |
| | B | 1 | SLM-LED-18L-SIL-3-40-70CRI-IL | CONTACT RYAN ZINSELMEIER-314-531-2600 | SLM-LED-18L-SIL-3-40-70CRI-IL.ies | 13767 | 1 | 1 | 148.5 | 100% |
| | D | 1 | SLM-LED-18L-SIL-FT-40-70CRI-IL | CONTACT RYAN ZINSELMEIER-314-531-2600 | SLM-LED-18L-SIL-FT-40-70CRI-IL.ies | 12046 | 1 | 1 | 297 | 100% |

**Statistics**

| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
|---|---|---|---|---|---|---|
| CALC SUMMARY- PAVED SURFACE | + | 2.8 fc | 7.1 fc | 0.6 fc | 11.8:1 | 4.7:1 |
| CALC SUMMARY- PROPERTY LINE | + | 0.3 fc | 1.3 fc | 0.0 fc | N/A | N/A |
| TRASH ENCLOSURE | + | 3.8 fc | 4.6 fc | 2.7 fc | 1.7:1 | 1.4:1 |

**Note**

1. MOUNTING HEIGHT OF 22' (20'POLE)
2. CALCULATIONS TAKEN AT GROUND LEVEL
3.CONTACT VILLA LIGHTING- RYAN ZINSELMEIER-RYAN.ZINSELMEIER@VILLALIGHTING.COM- 314-531-2600




villa LIGHTING

PANDA EXPRESS
COVINGTON, GA

**Designer**
R. ZINSELMEIER
**Date**
01/21/2022
**Scale**
NOTED
**Drawing No.**

**Summary**

1 of 1

PANDA EXPRESS CHINESE KITCHEN


**PANDA EXPRESS, INC.**

1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288



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ISSUE DATE:

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| PRELIMINARY | 01/19/2022 |
| BID | XX-XX-XX |
| CONSTRUCTION | XX-XX-XX |

DRAWN BY: INGENIUM

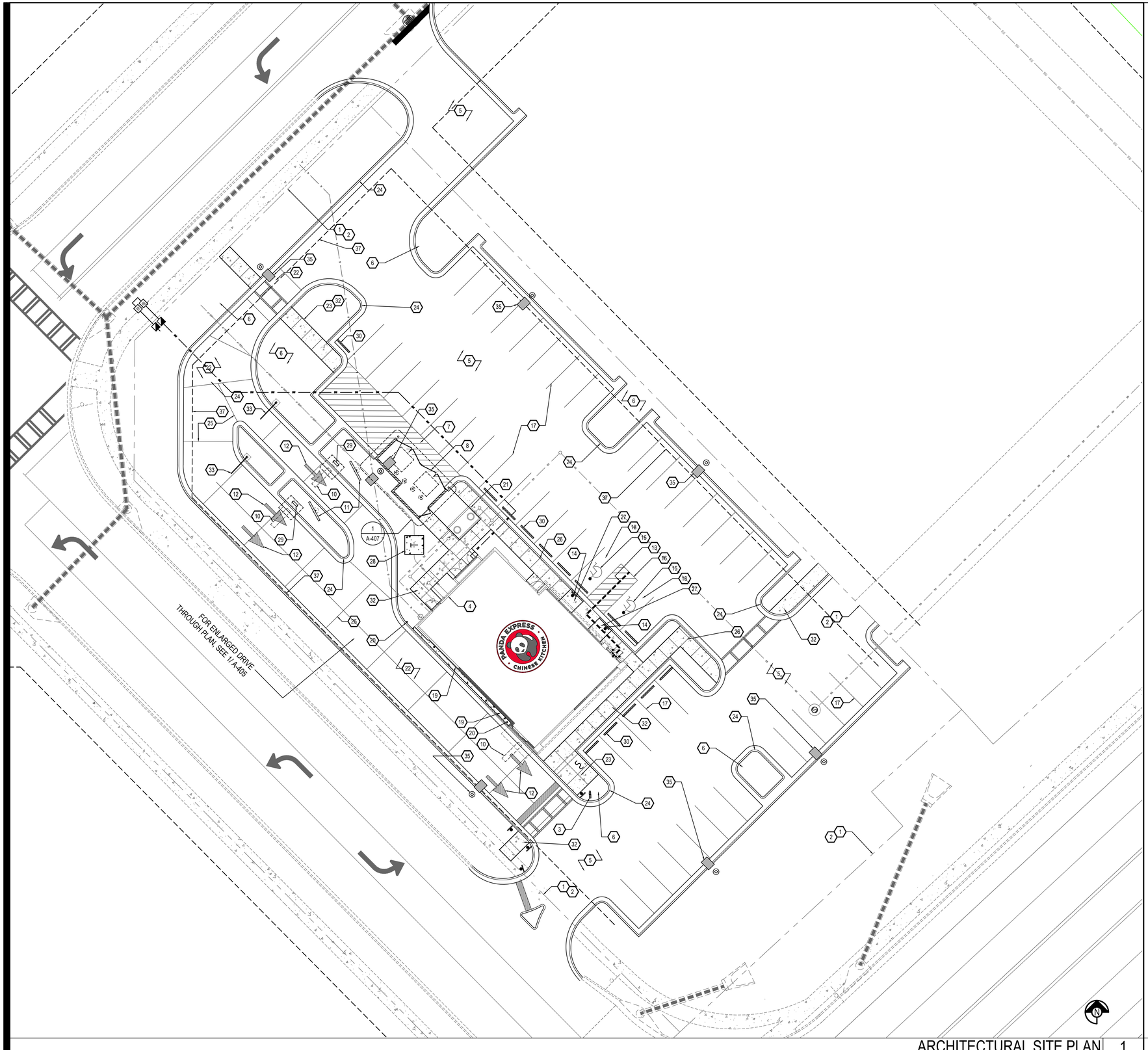
PANDA PROJECT #: D8515
PANDA STORE #: TBD
ARCH PROJECT #:

INGENIUM
Civil Engineering & Planning

# SITE LIGHTING PLAN

SL01.0

TRUE WARM & WELCOME 2300




**DEMOLITION NOTE:**
G.C. TO REMOVE ALL EXISTING ABOVE/UNDER GROUND STRUCTURAL WALLS, FOUNDATION, ASPHALT, CONC. CURBS AND DEBRIS PRIOR TO NEW CONSTRUCTION.

**GENERAL NOTE:**

1. G.C. TO VERIFY AND PROVIDE ALL UNDERGROUND WIRING AND CONDUIT(INSTALLED BY LOCAL UTILITY COMPANY) FROM TRANSFORMER TO ELECTRICAL MAIN SWITCHGEAR. DRIVE THRU. MENU BOARD, BY G.C.. VERIFY WITH PANDA PM.
2. WATER METER FOR IRRIGATION SHALL BE A SEPARATE METER THAN MAIN WATER METER. G.C. TO COORDINATE WITH LANDSCAPE/IRRIGATION CONTRACTOR TO INSTALL A SEPARATE METER.
3. PROVIDE & INSTALL CAGE AND COVER FOR THE BACK-FLOW PREVENTER AT 4" CONCRETE CURB IN LANDSCAPE AREA; GORILLA CAGE, MANUFACTURED BY HOUSTON IRRIGATION SERVICES SPRING, TEXAS (281-705-9701). PROVIDE INSULATED COVER, 'AQUA SHIELD' MODEL # BFP1-S FOR COLDER REGIONS OF US. COORDINATE WITH PANDA PM. REFER TO DETAIL 11/ A-407
4. FOR HORIZONTAL CONTROL PLAN REFER TO CIVIL DRAWINGS
5. KEY SYMBOLS

1. LIMIT OF CONSTRUCTION
2. PROPERTY LINE
3. GC TO COORDINATE LOCATION OF "THANK YOU" SIGN WITH PANDA PM
4. SWITCHGEAR
5. PAVING - SEE CIVIL PLAN
6. IRRIGATED LANDSCAPING - SEE LANDSCAPE DRAWINGS
7. CONC. APRON - SEE CIVIL DRAWINGS
8. TRASH ENCLOSURE
9. NOT USED
10. DRIVE THRU LANE SENSOR LOOP - SEE DETAIL 01/A-405
11. DRIVE THROUGH MENU BOARD-INSTALLED BY SIGN VENDOR. VERIFY WITH PANDA PM (SEE GENERAL NOTE ABOVE)
12. DIRECTIONAL ARROW - SEE CIVIL DRAWINGS
13. ACCESSIBLE PATH OF TRAVEL
14. ACCESSIBLE PARKING POLE SIGN - SEE CIVIL DRAWINGS
15. INTERNATIONAL ACCESSIBILITY SYMBOL - SEE CIVIL DRAWINGS
16. ACCESSIBLE PARKING SPACE AND LOADING ZONE PAINT - SEE CIVIL DRAWINGS
17. SOLID PARKING STRIPPING - SEE CIVIL DRAWINGS
18. DESIGNATED HANDICAP PARKING SPACE
19. MAIN ROOF DRAIN TO STORM SYSTEM - SEE CIVIL DRAWINGS. OVERFLOW DRAIN TO DAYLIGHT 15/A-107
20. STEEL PIPE BOLLARD - SEE CIVIL DRAWINGS
21. UNDERGROUND GREASE INTERCEPTOR - SEE PLUMBING/CIVIL DRAWINGS
22. CONC. DRIVEWAY - SEE CIVIL DRAWINGS
23. EDGE OF SIDEWALK AT LANDSCAPE AREA
24. CONCRETE CURB AT LANDSCAPE AREA - SEE CIVIL DRAWINGS
25. EXPANSION JOINT - SEE CIVIL DRAWINGS
26. TOOLED JOINTS - SEE CIVIL DRAWINGS
27. ACCESSIBLE RAMP - SEE CIVIL DRAWINGS
28. ELEC TRANSFORMER CONC PAD W/ 4 EA BOLDARDS - SEE CIVIL DRAWINGS
29. ORDER CONFIRMATION BOARD
30. RUBBER WHEEL STOP, REF. CIVIL DRAWINGS
31. NOT USED
32. SEALED CONC SIDEWALK. - SEE CIVIL DRAWINGS. (AQUA MIX SEALER'S CHOICE GOLD). PROVIDE UNDER SLAB TREATMENT PER SOIL REPORT
33. CLEARANCE BAR/BASE INSTALLED BY SIGN VENDOR
34. NOT USED
35. NEW SITE LIGHTING - SEE CIVIL AND ELECTRICAL DRAWINGS
36. NOT USED
37. PROPERTY SETBACK - SEE CIVIL DRAWINGS

ARCHITECTURAL SITE PLAN | 1
Scale= 1/16" = 1'-0" | A-100

KEY NOTES | A
Scale= NTS | A-100

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
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ISSUE DATE:

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |
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DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

Cuhaci & Peterson
Architects Engineers Planners
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Florida Corporation Certificate # AA C000526

02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA19215
REGISTERED ARCHITECT

# PANDA EXPRESS

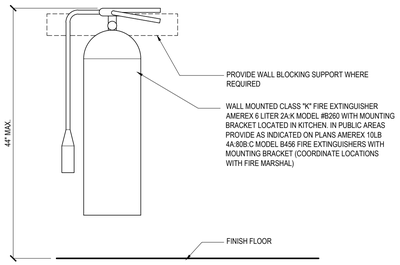
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-100

ARCHITECTURAL
SITE PLAN

1. EXIT LIGHTS SHALL BE PROVIDED AT ALL EXTERIOR DOORS ALONG THE EGRESS PATH.
2. EMERGENCY LIGHTING SHALL BE PROVIDED AS REQUIRED BY CODE. REFER ELECTRICAL LIGHTING PLAN.
3. ALL DOOR HARDWARE SHALL MEET ALL APPLICABLE CODE REQUIREMENTS FOR EGRESS AND HANDICAP ACCESSIBILITY.
4. ALL DIMENSIONS SHOWN ON THIS PLAN ARE MINIMUM CLEAR DIMENSIONS.
5. GC SHALL INSTALL A KNOX BOX AT THE MAIN ENTRANCE. GC SHALL COORDINATE THE EXACT LOCATION, MOUNTING HEIGHT, AND TYPE WITH THE LOCAL FIRE OFFICIAL.
7. POST OCCUPANT LOAD PER LOCAL CODE. SEE COVER SHEET G-001 FOR OCCUPANT BREAKDOWN.

## GENERAL NOTES 6
NTS LSP-101




## FIRE EXTINGUISHER DETAILS 5
NTS LSP-101

SYMBOL INDICATES ACCESSIBLE SEATING. AT EACH ACCESSIBLE SEAT, THE UNDERSIDE OF THE TABLE WILL BE 27" AFF MIN. THE TOP OF THE TABLE WILL BE 34" AFF MAX. A 30" WIDE WHEEL CHAIR WILL BE ABLE TO EXTEND UNDER THE TABLE A MIN. OF 19" FROM THE EDGE OF THE TABLE TOP.

FE-1 FE-3 — SYMBOL INDICATES FIRE EXTINGUISHER (10 LB-4A40BC) WITH MOUNTING BRACKET. ONE EACH TO BE MOUNTED NEXT TO THE MAIN EXIT DOORS FROM THE MAIN BUILDING. MOUNT 44" AFF MAX. PROVIDE BLOCKING IN WALL FOR MOUNTING SUPPORT AS NEEDED. GC TO COORDINATE EXACT TYPE, LOCATION, AND MOUNTING HEIGHT WITH LOCAL FIRE OFFICIAL AS REQUIRED.

FE-2 — SYMBOL INDICATES "K" TYPE FIRE EXTINGUISHER WITH MOUNTING BRACKET. TO BE MOUNTED IN KITCHEN IN THE LOCATIONS INDICATED. MOUNT 44" AFF MAX. PROVIDE BLOCKING IN WALL FOR MOUNTING SUPPORT AS NEEDED. GC TO COORDINATE EXACT TYPE, LOCATION, AND MOUNTING HEIGHT WITH LOCAL FIRE OFFICIAL AS REQUIRED.

SYMBOL INDICATES EMERGENCY "EXIT" ILLUMINATED SIGN FIXTURE.

00'-00" > E: XX — TRAVEL DISTANCE SYMBOL (EGRESS COMPONENT / DISTANCE TO)

STARTING POINT OF MOST REMOTE POINT OF EGRESS

<###> — EGRESS CAPACITY (PEOPLE)

EGRESS PATH

EGRESS DISCHARGE

EXIT

K — KNOX BOX

00 OCC / 000 NSF / 00 NSF — CAPACITY; OCCUPANCY CAPACITY SYMBOL; NET / GROSS AREA (SQUARE FEET); SQUARE FEET PER PERSON

PH — PANIC HARDWARE

## SYMBOLS 4
NTS LSP-101

TYPE OF SEATING

| | |
|---|---|
| 2 TOP TABLES | 4 (2 SEATS) = 8 SEATS |
| 4 TOP TABLES | 6 (4 SEATS) = 24 SEATS |
| 8 TOP TABLES | 2 (8 SEATS) = 16 SEATS |
| TOTAL | 48 SEATS |

HANDICAP SEAT CALCULATION
INTERIOR: 48 TOTAL SEATS x 5% = 3 REQUIRED / 3 PROVIDED

PORTABLE FIRE EXTINGUISHERS

| | | | |
|---|---|---|---|
| PROTECTED AREA | | 2,391 GSF | |
| FE-1 | 2A:K | 2,000 GSF | EXTRA |
| FE-2 | 4A:80B:C | 6,000 GSF | ORDINARY |
| FE-3 | 4A:80B:C | 6,000 GSF | ORDINARY |
| COVERED AREA | | 14,000 GSF | |

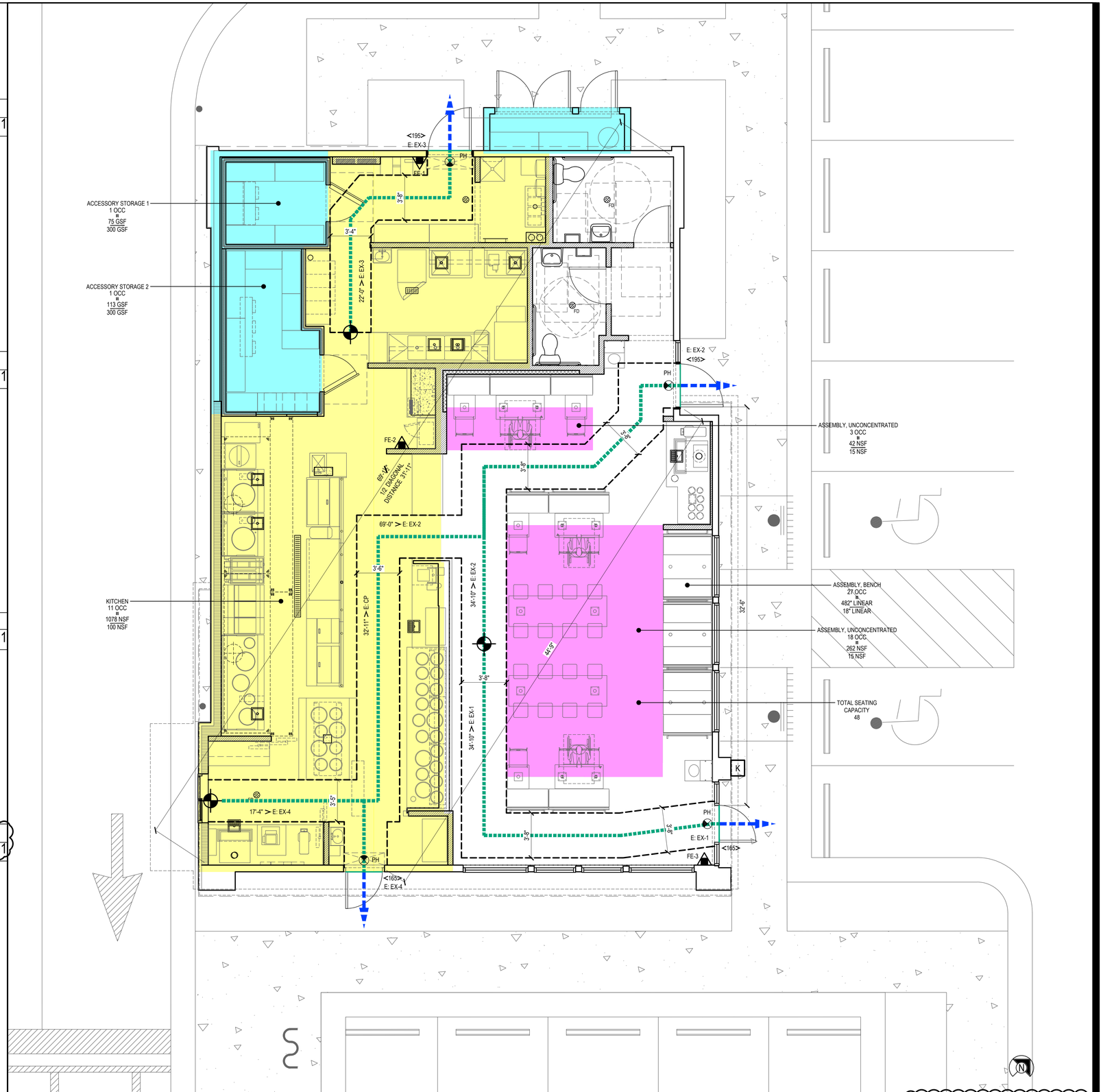
OCCUPANT LOAD

| EX-1 | EX-2 | EX-3 | EX-4 | TOTAL | |
|---|---|---|---|---|---|
| | | 1 | | 1 | ACCESSORY STORAGE 1 |
| | | 1 | | 1 | ACCESSORY STORAGE 2 |
| | 2 | 4 | 5 | 11 | KITCHEN |
| 24 | 24 | | | 48 | SEATING |
| 24 | 26 | 6 | 5 | 61 | |
| 165 | 195 | 195 | 165 | 720 | EGRESS CAPACITY |

## CALCULATIONS 3
NTS LSP-101

1. PROVIDE ONE TACTILE SIGN STATING "EXIT" NEXT TO EACH EXIT DOOR. SIGN SHALL COMPLY WITH ANSI A117.1
2. SIGNS SHALL BE 6" X 6". LETTERS AND CHARACTERS SHALL BE WHITE. BACKGROUND SHALL BE BLACK
3. LETTER WIDTH TO HEIGHT RATIO = 3:5 MIN., 1:1 MAX. STROKE WIDTH TO HEIGHT RATIO = 1:5 MIN., 1:10 MAX.
4. LETTERS SHALL BE SIMPLE SERIF TYPE, UPPERCASE, 2" HIGH, AND SHALL BE RAISED 1/32".
5. BRAILLE CHARACTERS SHALL BE GRADE 2 BRAILLE. DOTS SHALL BE 1/10" ON CENTER IN EACH CELL, WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
6. SIGNS SHALL BE MOUNTED ON THE LATCH SIDE OF THE DOOR. SIGNS SHALL BE 60" AFF AND 9" FROM DOOR OPENING (EACH MEASURED TO CENTER OF SIGN).

## LIFE SAFETY PLAN 2
NTS LSP-101




## LIFE SAFETY PLAN 1
Scale= 1/4" = 1'-0" LSP-101


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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REVISIONS:

| | |
|---|---|
| 2 | 02.08.22 ISSUE FOR BID |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


Cuhaci & Peterson
Architects Engineers Planners
2600 Maitland Center Pkwy. Maitland, FL 32751
P (407) 661-9100
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Florida Corporation Certificate # AA C000528


02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA16215
REGISTERED ARCHITECT

# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# LSP-101

LIFE SAFETY PLAN

TRUE WARM & WELCOME 2300 R6

# EQUIPMENT SCHEDULE

01-11-19

**PLUMBING**

FS INDIRECT CONNECTION TO FLOOR SINK
D DIRECT CONNECTION
RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)

**ELECTRICAL**

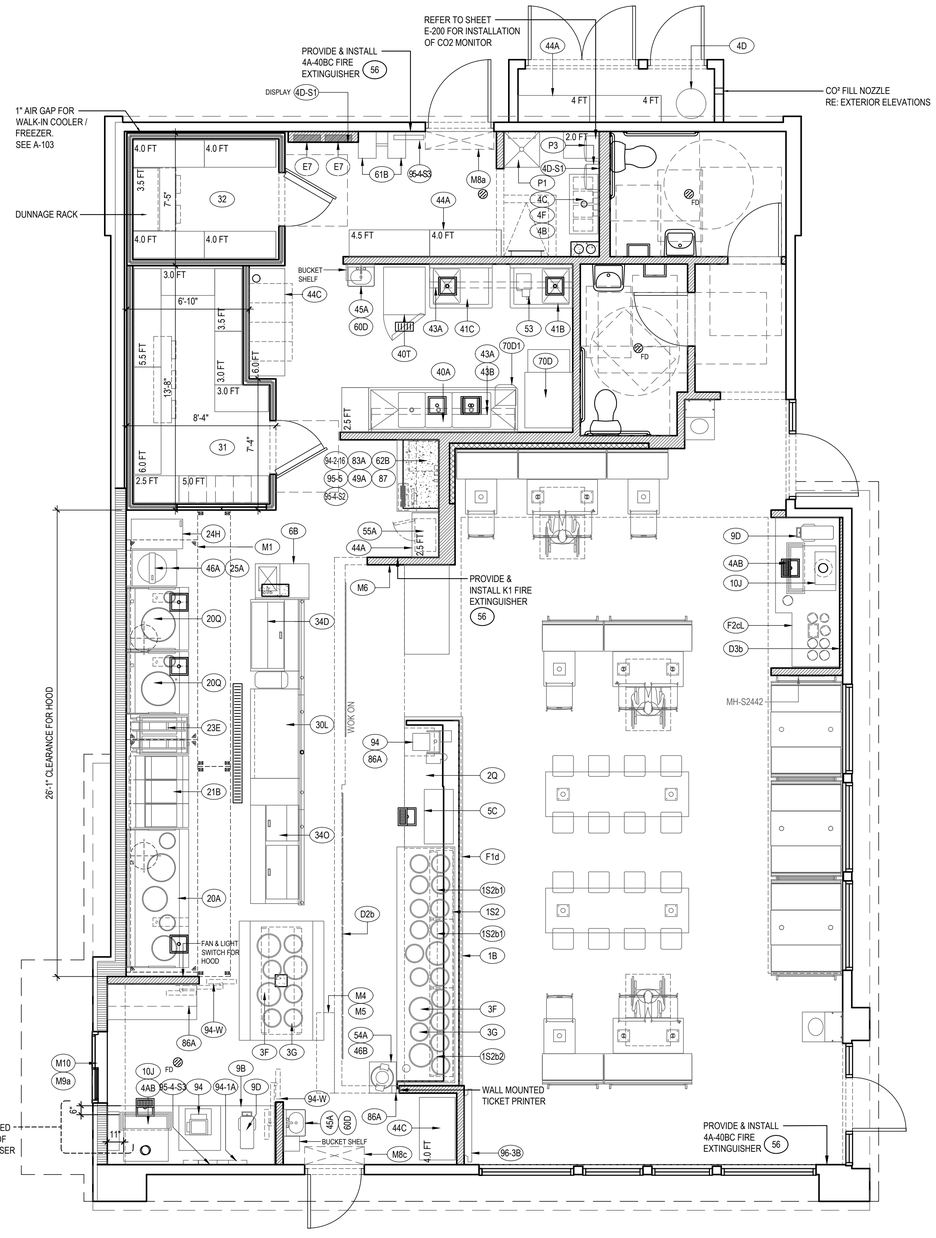
D DIRECT CONNECTION
C CONVENIENT OUTLET
FSO FLOOR STUB OUT
DC DROPPED CORD

**DESCRIPTION**

O OWNER(PANDA EXPRESS, INC.)
GC GENERAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
KEC KITCHEN EQUIPMENT COMPANY
S SERVING AREA
K KITCHEN
(E) EXISTING

| SUPPLY BY | GAS K BTU | GAS R.I.H. | GAS SIZE | WASTE TYPE | WASTE SIZE | COLD WATER R.I.H. | COLD WATER SIZE | HOT WATER R.I.H. | HOT WATER SIZE | CONNECTION R.I.H. | CONNECTION TYPE | LOAD WATT | PHASE | H.P. | VOLTS | REMARKS | DIMENSIONS W x D x H (ø x H) | MANUFACTURE | MODEL # | EQUIPMENT | NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SERVING AREA EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | | | SEE DETAIL | SEE PLAN | KEC | CUSTOM | HOT WELLS COUNTER, SERVICE | 1B |
| O | | | | | | | | | | | | | | | | SEE DETAIL | SEE PLAN | KEC | CUSTOM | SNEEZE GUARD | 1S2 |
| O | | | | | | | | | | REF. ELEC. | D | 475W | 1 | | 120 | 3 HEATING ELEMENTS | 42.375" X 4.25" X 2.375" | GENERAL | | 43" RADIANT TOP HEATER | 1S2b1 |
| O | | | | | | | | | | | D | 625W | 1 | | 120 | 4 HEATING ELEMENTS | 55.375" X 4.25" X 2.625" | GENERAL | | 56" RADIANT TOP HEATER (2) | 1S2b2 |
| O | | | | | | | | | | | D | 475W | 1 | | 120 | 3 HEATING ELEMENTS | 42 1/8"x4.25"x2 5/8" | GENERAL | | 43" RADIANT TOP HEATER (2) | 1S2-S1c |
| O | | | | | | | | | | | D | 15A | 1 | | 120 | SEE DETAIL | SEE PLAN | KEC | CUSTOM | CASHIER & BEVERAGE. COUNTER | 2Q |
| O | | | | | | | | | | | C | 650W | 1 | | 120 | INDUCTION WARMER | 15 3/4" DIA | I/O CONTROLS CORP | ABC-065-14 | INDUCTION WELL - 17QT | 3F |
| O | | | | | | | | | | | C | 650W | 1 | | 120 | INDUCTION WARMER | 12 1/8" DIA | I/O CONTROLS CORP | ABC-065-10 | INDUCTION WELL - 11QT | 3G |
| O | | | | FS | 3/4" | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | C | 9.3A | 1 | | 120 | W/LID DISPENSER | 30"x30"x35" | CORNELIUS | IDC-255 | BEVERAGE DISPENSER | 4AB |
| O | | | | | | | | | | 66" | C | 7.2A | 1 | | 120 | ON S/S SHELF | 15"x17"X16" | WELBILT | 16-2172 | BOOSTER | 4B |
| O | | | | | | | | | | | | | | | | | 40"x18" | WELBILT | 15-2903-IP | SODA RACK | 4C |
| O | | | | | | | | | | | | | | | | | #22" | ESPRICAS | PER MFG | CO2 TANK | 4D |
| O | | | | | | | | | | | | | | | | | | CO2Meter.com | RAD-0102-6 | CO2 MONITOR & DISPLAY | 4D-S1 |
| O | | | | | | 96" | 1/2" | | | | | | | | | WALL MOUNT | 8"x2 3/8"x23 5/8" | 3M WATER FILTRATION | BEV190-56164-01 | WATER FILTER | 4F |
| O | | | | FS | 1/2" | | | | | | | | | | | | 34"x17"x6 1/2" | KEC | CUSTOM | 36" COLD PAN | 5C |
| O | | | | | | | | | | | | | | | | | SEE PLAN | KEC | CUSTOM | S/S COUNTER WITH SINK | 6B |
| O | | | | | | | | | | 24" | | | | | | | SEE PLAN | KEC | CUSTOM | HOT WELLS COUNTER- DRIVE THRU | 6F |
| O | | | | | | | | | | 24" | | | | | | | SEE PLAN | KEC | CUSTOM | CASHIER & BEVERAGE COUNTER-DT | 9B |
| O | | | | | | | | | | 24" | C | 14.8A | 1 | | 120 | NEMA 5 PLUG | 22" X 22" X 34" | BUNN | TB3 | ICED TEA BREWER (2) | 9D |
| O | | | | FS | 1/2" | 24" | 1/2" | | | 84" | C | 1.1A | 1 | | 120 | ---- | 22" X 14" X 28.5" | MANITOWOC | 800 LBS. ICE MACHINE | IB-0894YC | 10J |
| O | | | | | | | | | | 16" | D | 11.8A | 1 | | 208/230 | ON ROOF | 34"X 24.13"X 25.75" | MANITOWOC | CVD-0875 | REMOTE CONDENSER | 10J-S1 |
| O | | | | | | | | | | | | | 1 | | 115 | FREE STANDING | 34" X 22" X 44" | MANITOWOC | IYT0620A | CUBER HALF DICE CUBE | 10L |
| O | | | | | | | | | | | | | 1 | | --- | ABOVE ICE MACHINE | 24"X 17.5"X 21.5" | MANITOWOC | D420 | STORAGE BIN | 10L-S1 |
| **KITCHEN EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | 450 | 10" | 1-1/2" | FS | 2" | 10" | 1/2" | | | | | | | | | SEE DETAIL | 93"x42" | KEC | CUSTOM | 93" CHINESE RANGE (L) | 20A |
| O | 190 | 10" | 1" | FS | 2" | 10" | 1/2" | | | | | | | | | SEE DETAIL | 42"x42" | KEC | CUSTOM | 42" CHINESE RANGE | 20Q |
| O | 122 EA. | 14" | 1 1/2" | | | | | | | 24" | C | - | 1 | | 120 | | 47"x31-1/2"x51-5/8" | FRYMASTER | MJ45-FPP345G | FRYER | 21B |
| O | 54 | 10" | 3/4" | | | | | | | | | | | | | | 24"X31.5"X15.25" | VULCAN | MSX24-CD100P | 24" GAS GRIDDLE | 23E |
| DRILL NEMA PLUG/CONNECTOR | | | | | | | | | | 36" | C | 17.3A | 1 | | 208 | | 10.4"X22.9" | VULCAN | VMCS-101 | (2) ELECTRIC GRIDDLE TOP | |
| O | | | | | | | | | | 24" | C | 14.8A | 1 | | 120 | NEMA 5 | 19.9"X34.5"X41.3" | WINSTON | HA4005 | RICE HOLDING CABINET | 24H |
| O | 34.6 | 10" & 32" | 3/4" | | | | | | | | | | | | | | 24"x19"x17" | PANTIN | CC-6100(N) | RICE COOKER | 25A |
| O | | | | | | | | | | 24" | C | 9A | 1 | 1/2 | 115 | NEMA 5-15P | 60"X33"X36" | RANDELL | 9205F-290 | 60" WORKTOP FREEZER | 30L |
| O | | | | FS | 3/4" | | | | | 130" | D | 2.0AMPS | 1 | 1.5 | 120/208 | | SEE PLAN | KEC | CUSTOM | WALK-IN COOLER UNIT | 31 |
| O | | | | | | | | | | | D | 3120w/2 | 1 | 1.5 | 208 | | SEE PLAN | KEC | CUSTOM | WALK-IN COOLER COND. | 31-S |
| O | | | | FS | 3/4" | | | | | 130" | D | FREEZER FAN COIL UNIT POWERED FROM CONDENSER UNIT | | | | | SEE PLAN | KEC | CUSTOM | WALK-IN FREEZER | 32 |
| O | | | | | | | | | | | D | 10.0A | 1 | 1.5 | 208 | | SEE PLAN | KEC | CUSTOM | WALK-IN FREEZER COND. | 32-S1 |
| O | | | | | | | | | | | D/D | 500W | 1 | | 120 | | SEE PLAN | KEC | CUSTOM | W.I.F. LTG, DOOR HEATER | 32-S7 |
| O | | | | | | | | | | 24" | C | 15A | 1 | 1/2 | 120 | SELF CONTAINED | 84"x33"x35" | RANDELL | 9050K-7MPR2-NSB | 84" REF. PREP. TABLE | 34O |
| O | | | | | | | | | | 24" | C | 9A | 1 | 1/3 | 120 | SELF CONTAINED | 48"x33"x35" | RANDELL | 9030K-7 | 48" REF. PREP. TABLE | 34D |
| O | | | | FS | 2" | 14" | 3/4" | 14" | 3/4" | | | | | | | | 100"X30" | KEC | CUSTOM-(PS-100L) | POT SINK | 40A |
| O | | | | FS | | | | | | 48" | C | 1.52 KW | 1 | 2 | 208 | | 28"x33"x82" | ELECTROLUX | 727655 | THAWING CABINET | 40T |
| O | | | | FS | 2" | 14" | 3/4" | 14" | 3/4" | | | | | | | 1 COMPARTMENT | 42"x30" | KEC | CUSTOM-(VS-42) | 42" VEGETABLE SINK (R) | 41B |
| O | | | | FS | 2" | 14" | 3/4" | 14" | 3/4" | | | | | | | 1 COMPARTMENT | 42"x30" | KEC | CUSTOM-(VS-42) | 42" VEGETABLE SINK (L) | 41C |
| O | | | | | | | | | | 18GA POLISHED (WALL MTD. @ 59" A.F.F.) | | | | | | | SEE PLAN | PANDA WAREHOUSE | CUSTOM (NSF) | 12"D S.S. WALL MTD. SHELF | 43A |
| O | | | | | | | | | | 18GA POLISHED (WALL MTD. @ 71" A.F.F.) | | | | | | | SEE PLAN | PANDA WAREHOUSE | CUSTOM (NSF) | 16"D S.S. WALL MTD. SHELF | 43B |
| O | | | | | | | | | | 4 SHELVES MTD. @ 8" A.F.F., 26" A.F.F., 54" A.F.F., 72" A.F.F. | | | | | | | SEE PLAN | GOLD BOND | ISS | 18"D WIRE SHELVES | 44A |
| O | | | | | | | | | | UNDER CABINET SHELVES WITH CASTER MTD. @ 8" A.F.F., 20" A.F.F. | | | | | | | SEE PLAN | GOLD BOND | ISS | SHORT 18"D WIRE SHELVES | 44A-U |
| O | | | | | | | | | | 4 SHELVES MTD. @ 35" A.F.F., 48" A.F.F., 60" A.F.F., 72" A.F.F. | | | | | | | SEE PLAN | GOLD BOND | ISS | 24"D WIRE SHELVES | 44C |
| O | | | | | | | | | | UNDER CABINET SHELVES MTD. @ 8" A.F.F., 14" A.F.F. | | | | | | | SEE PLAN | GOLD BOND | ISS | SHORT 24"D WIRE SHELVES | 44C-U |
| O | | | | | | | | | | | | | | | | | 24"x 30" x 24" | KEC | CUSTOM | S.S. RICE COOKER STAND | 46A |
| O | | | | | | | | | | | | | | | | | 22"x 20" x 34.06" | KEC | CUSTOM | RICE WARMER STAND | 46B |
| O | | | | | | | | | | | | | | | | | 36 1/2"x 33" x 26" | KEC | CUSTOM | S.S. GRILL STAND | 46K |
| O | | | | | | | | | | | | | | | | | 18"x 33" x 30" | KEC | CUSTOM | STAND | 46N |
| O | | | | | | | | | | 50" | C | 10A | 1 | 1 | 120 | 9 15/16"x19-11/16"x19-3/4" | ELECTROLUX | DITO-TRS24 | FOOD PROCESSOR | 53 |
| O | | | | FS | 7/8" | 76" | 3/4" | 14" | 3/4" | 24" | C | 53A | 1 | 4 | 208 | | 32"x37"x68" | HOBART | PW10SER | DISHWASHER | 70D |
| O | | | | FS | | | | | | | | | | | | | 14"x14"x21" | HOBART | WS-40 | WATER SOFTENER | 70D1 |
| **SMALL EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | 2" | 24" | 1/2" | 24" | 1/2" | | | | | | | W/TOWEL & SOAP | 14 1/4"x18 1/2" | GSW | HS-1615NPASS | HAND SINK | 45A |
| O | | | | | | | | | | 24" | C | 105W | 1 | | 120 | ON S.S. COUNTER | 17" ø | WELBON | WRS-1088BS | RICE WARMER | 54A |
| O | | | | | | | | | | 84" | DC | 1800W | 1 | | 208 | PLUG: NEMA 6-15R | 17 1/2"x13 5/8"x22 9/16" | SHARP | R-CD1800M | MICROWAVE | 55A |
| BY G.C. | | | | | | | | | | | | | | | | AS REQUIRED BY LOCAL FIRE DEPT., CHECK LOCATION WITH PROJECT MANAGER | | | | FIRE EXTINGUISHER | 56 |
| O | | | | | | | | | | | | | | | | | SEE DETAIL | SAN-JAMAR | SANJT7500TBK | PAPER TOWEL DISPENSER | 60D |
| O | | | | | | | | | | | | | | | | WALL MOUNT | 12"x20"x77" | GSW | 5-DOOR | LOCKER (2) | 61B |
| O | | | | | | | | | | | | | | | | | 20"X20"X23" | TIDEL | CUSTOM | SMART SAFE | 62B |
| **POS EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | | | SEE ELEV. ON E-200 | 48" X 28" X 42" | KEC | CUSTOM | MANAGER STATION | 49A |
| O | | | | | | | | | | REF ELEV | C | 100W | 1 | | 120 | SEE DETAIL | | DELL OPTIPLEX | Xe2 | COMPUTER | 83A |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | SEE PLAN | | BROTHER | MFC-LC2700DW | POS PRINTERS | 86A |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | | | BROTHER | MFC-LC2700DW | FAX | 87 |
| O | | | | | | | | | | REF ELEV | C | 500W | 1 | | 120 | CUSTOM | 11 1/4"x14 1/2"x9" | RESNOS | S 460 | CASH REGISTER SYSTEM | 94 |
| **MEP EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | | | SEE MECH. DWG. | SEE PLAN | CAPTIVE AIR | CUSTOM | EXHAUST HOOD | M1 |
| O | | | | | | | | | | | | | | | | SEE MECH. DWG. | SEE PLAN | CAPTIVE AIR | CUSTOM | HOOD CONTROL PANEL | M4 |
| O | | | | | | | | | | | | | | | | SEE MECH. DWG | SEE PLAN | CAPTIVE AIR | | FIRE SUPPRESSION SYSTEM | M5 |
| BY G.C. | | | | | | | | | | | | | | | | SEE MECH/ELEC DWG | SEE PLAN | | | RECESSED ANSUL PULL BOX | M6 |
| O | | | | | | | | | | 90" | D | 5.1A | 1 | 1/2 | 115 | SEE MECH/ELEC DWG | 42" X 10 5/8" | MARS | STD242-1U | BACK DOOR AIR CURTAIN | M8a |
| O | | | | | | | | | | 90" | D | 5.1A | 1 | 1/2 | 115 | SEE MECH/ELEC DWG | 36" X 10 5/8" | MARS | STD236-1U | D.T. DOOR AIR CURTAIN | M8c |
| BY G.C. | | | | | | | | | | 24" | D | 30A | 1 | | 120 & 208 | SEE ELEC. DWG | 25"X 9" X 14 3/8" | QUIK-SERV | CHF-25 HEATED | DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH | M9a |
| BY G.C. | | | | | | | | | | 24" | D | 20A | 1 | | 120 | SEE ELEC. DWG | 47.5"X 59.5" | QUIK-SERV | SST-4860E | DT WINDOW | M10 |
| BY G.C. | | | | 3" | 36" | – | 36" | – | | | D | | | | | FLOOR TYPE | 24" X 24" X 13" | S.S.M. PHONE:1800-897-5999 | SE2424FM | STAINLESS STEEL MOP SINK | P1 |
| BY G.C. | | | | | | | | | | 84" | C | 8A | 1 | | 120 | SEE PLUMBING DWG | 39" X 29.75" X 13" | RINNAI | MTG-00247 | GAS TANKLESS WATER HEATER | P3 (2) |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | SEE ELEV. ON E-200 | SEE PLAN | HYPERACTIVE | | HYPERACTIVE TIMER SYS. | 94-1A |
| O | | | | | | | | | | 48" | C | 50W | 1 | | 120 | SEE PLAN | 15" X 13" | DELL (17" COLOR) | | LCD MONITOR-MANAGER | 94-2-16 |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | SEE ELEV. ON E-200 | SEE PLAN | HME | | HME INTERCOM SYS. | 94-3-1 |
| O | | | | | | | | | | REF ELEV | C | 60W | 1 | | 120 | SEE PLAN | 15" | POSIFLEX | KS7215 | LCD DT MONITOR | 94-W |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | W/ EMI LOCK | SEE PLAN | TOSHIBA (TIME LAPSE) | | SECURITY VCR | 95-4-S2 |
| O | | | | | | | | | | 98" | C | 50W | 1 | | 120 | SEE ELEC. DWG | 15" X 13" | DELL (17" COLOR) | | SECURITY MONITORS | 95-4-S3 |
| O | | | | | | | | | | REF ELEV | C | 100W | 1 | | 120 | IN S.S. COUNTER | SEE PLAN | | | MUSIC EQUIPMENT | 95-5 |
| BY G.C. | | | | | | | | | | | | | | | | SEE ELEC. DWG | | | | ELECTRICAL PANEL | E7 |
| **SIGNAGE** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | | | | REF. INT. ELEV'S | LSI | CUSTOM | MENU BOARD | D2b |
| O | | | | | | | | | | | | | | | | BF-POWER COAT "DF125 SILVER" | | FAD | – | COMMUNITY BOARD | D3b |
| O | | | | | | | | | | REF ELEV | C | 130W | 1 | | 120 | DEDICATED CIRCUIT | 48.9" X 28.1" X 1.3" | LG | 55W550BS-B | LCD DISPLAY MONITOR | 96-3B |
| **FURNITURE** | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | SEE PLAN | | RICHFIELD | STRAIGHT-BF | SERVICE COUNTER | F1d |

* REFERENCE SHEET A-109 FOR FURNITURE CORE DRILL DIMENSIONS




KITCHEN PLAN 1
Scale= 1/4" = 1'-0" A-101

PANDA EXPRESS
CHINESE KITCHEN


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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| 2 | 02.08.22 ISSUE FOR BID |

ISSUE DATE:

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|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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Architects Engineers Planners
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P (407) 661-9100
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Florida Corporation Certificate # AA C000526

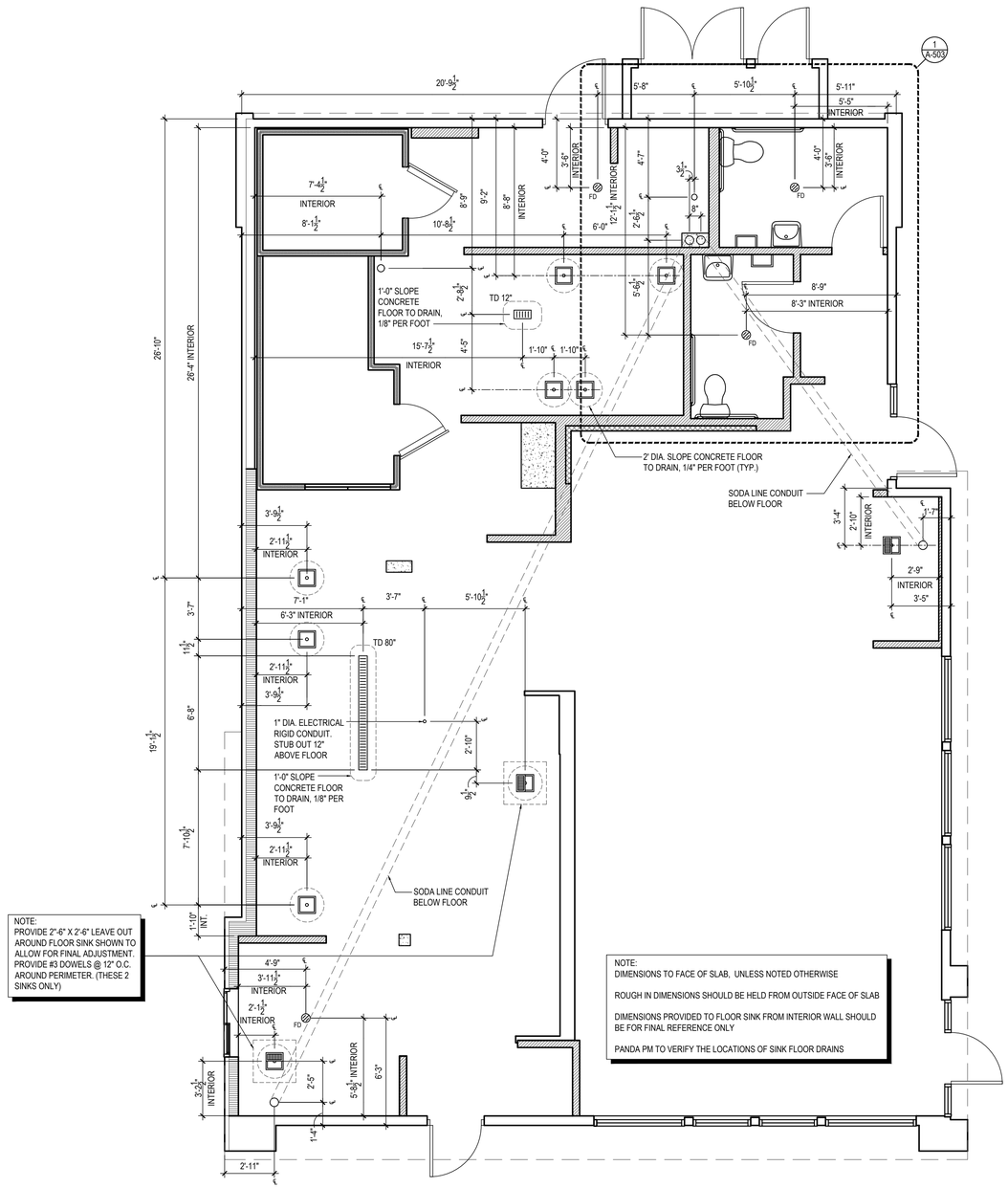

02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA19213
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

A-101
KITCHEN PLAN

TRUE WARM & WELCOME 2300 R6




ROUGH - IN PLUMBING PLAN 1

Scale= 1/4" = 1'-0" A-102

PANDA RESTAURANT GROUP INC.
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STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. PA015213
REGISTERED ARCHITECT

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-102

ROUGH - IN PLUMBING PLAN

TRUE WARM & WELCOME 2300 R6

## FINISH SCHEDULE

| ROOM NAME | FLOOR | BASE | WALL | CEILING |
|---|---|---|---|---|
| 100 DINING ROOM | T200 24" X 24" TILE | T109 6" X 36" TILE | P101, P104 PAINT<br>T109 TILE<br>W102 WALL COVERING | C1 2' X 2' ARMSTRONG, SEPIA #PN91311<br>C3 GYP BOARD W/ PAINT P103 |
| 101 SERVING AREA | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | S1 6" H CONT (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS) | T109 TILE | C3 GYP BOARD W/ SMOOTH WASHABLE PAINT |
| 102 DRIVE-THRU STATION | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | S1 6" H CONT (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS) | WP1 FRP PANEL | C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS |
| 103 KITCHEN | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | S1 6" H CONT (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS) | WP3 SS BEHIND COOK LINE<br>WP1 FRP PANEL | C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS |
| 104 KITCHEN PREP. | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | S1 6" H CONT (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS) | WP1 FRP PANEL | C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS |
| 105 WALK-IN COOLER | S1 PLAIN<br>S2 ABRASIVE IN HIGH TRAFFIC AREAS | SS WITH ½" RADIUS | EXT SS<br>INT SS | STAINLESS STEEL |
| 105A WALK-IN FREEZER | S1 SILIKAL UNDER WIF SUBFLOOR | SS WITH ½" RADIUS | EXT SS<br>INT STUCCO EMBOSSED COATED SS | STUCCO EMBOSSED COATED STEEL |
| 106 MEN'S ROOM | T200 24" X 24" TILE | SCHLUTER | T108 TILE | C3 GYP BOARD W/ P101 SMOOTH WASHABLE PAINT |
| 107 WOMEN'S ROOM | T200 24" X 24" TILE | SCHLUTER | T108 TILE | C3 GYP BOARD W/ P101 SMOOTH WASHABLE PAINT |
| 108 VESTIBULE | T200 24" X 24" TILE | T109 6" X 36" TILE | P104 PAINT GYP BOARD<br>T109 TILE | C3 GYP BOARD W/ P101 SMOOTH WASHABLE PAINT |
| 109 NOT USED | - | - | - | - |
| 110 EXTERIOR STORAGE | SEALED CONCRETE, SMOOTH FINISH | - | WP1 FRP PANEL | C3 GYP BOARD W/ P101 SMOOTH WASHABLE PAINT |

## DOOR & HARDWARE SCHEDULE

INSTALLED AND FURNISHED BY GC UNLESS NOTED OTHERWISE

CONTRACTOR TO PURCHASE DOOR HARDWARE & FRAME DIRECTLY FROM PANDA'S NATIONAL ACCOUNT SUPPLIER. SUPPLIER TO PROVIDE ALL STOREFRONT DOOR HARDWARE, P-LAM DOORS & FRAMES AND HM DOORS & FRAMES

CONTACT FOR QUOTING, ORDERING & LOGISTICS
APRIL WALDREN, PROJECT MANAGER
800-887-4307 EXT. 350 PHONE
AprilW@locknet.com, panda@locknet.com

CONTACT FOR GENERAL ACCOUNT NEEDS
ANGIE HAINES, ACCOUNT MANAGER
800-887-4307 EXT. 145 PHONE / 859-509-4031 MOBILE
AngieH@locknet.com, panda@locknet.com

ADDITIONAL CONTACTS:
THOMAS DOWNS, SALES MANAGER; ThomasD@locknet.com; 800-887-4307 x116
EDDIE ANDUEZA, DIR. ARCH. DOOR & HARDWARE SOL.; eddiea@locknet.com; 859-432-2289

NOTE:
CONTRACTOR HAS THE OPTION TO PURCHASE STOREFRONT HARDWARE FROM OTHER SOURCE, PROVIDED THE HARDWARE IS PER SPECS. NO SUBSTITUTIONS ALLOWED. STOREFRONT HARDWARE SPECS ARE PROVIDED IN THE PROJECT BID PACKAGE. COORDINATE WITH PANDA PROJECT MANAGER LISTED ON SHEET G-001

| NO. | DOOR MATERIAL | SIZE | FRAME | FACE/EDGE | THK | CORE | LITE | RATE | HARDWARE: PASSAGE | LOCKSET | ELECT. MAG-LOCK W/ENTRY KEYPAD & EXIT BUTTON | PRIVACY | S.F. PULL | S.F. PUSH | PANIC | HINGE: BUTT | CONT.PIANO | STOP: FLOOR | WALL | ACCESSORIES: THRESHOLD | LATCH GUARD | DETEX ALARM | SILENCERS | KICKPLATE | CLOSER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | ALUMINUM STOREFRONT | 3'-0" X 7'-0" | ALUM. | DARK BRONZE ANODIZED ALUM. | 1 ¾" | HOLLOW | GLASS | - | | ● | | | ● | | ● | | ● | ● | ● | | | | | | ● | |
| 02 | ALUMINUM STOREFRONT | 3'-6" X 7'-0" | ALUM. | DARK BRONZE ANODIZED ALUM. | 1 ¾" | HOLLOW | GLASS | - | | ● | | | ● | | ● | | ● | ● | ● | | | | | | ● | PROVIDE PULL ON EXTERIOR SIDE |
| D3 | S.C. WOOD | 3'-0" X 7'-0" | H. MTL. | PLASTIC LAMINATE PRE-FINISHED | 1 ¾" | SOLID | - | - | | | | ● | | | | ● | | | ● | | | | ● | ● | ● | KICKPLATE ON EACH SIDE OF DOOR |
| D4 | NOT USED | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | |
| D5 | HOLLOW METAL | 3'-6" X 7'-0" | H. MTL. | PAINTED | 1 ¾" | INSUL. | - | - | | | | | | | ● | | ● | | | | ● | ● | | | ● | KICKPLATE ON INT. SIDE OF DOOR |
| D6 | HOLLOW METAL | (2) 3'-0" X 7'-0" | H. MTL. | PAINTED | 1 ¾" | INSUL. | - | - | | ● | | | | | | | ● | | | | ● | ● | | | | |
| D7 | HOLLOW METAL | 3'-0" X 7'-0" | H. MTL. | PAINTED | 1 ¾" | INSUL. | - | - | | ● | | | | | | | ● | | | | ● | ● | | | | WITH LOUVERED VENT & BUG SCREEN |
| D8 | ALUMINUM STOREFRONT | 3'-0" X 7'-0" | ALUM. | DARK BRONZE ANODIZED ALUM. | 1 ¾" | HOLLOW | GLASS | - | | ● | ● | | ● | ● | | | ● | ● | ● | | ● | | | | ● | ONE-WAY TINTING FILM ON INTERIOR SIDE |

## WALL SCHEDULE

INSTALLED AND FURNISHED BY. GC UNLESS NOTED OTHERWISE

| NO | DESCRIPTION |
|---|---|
| W1 | 3-5/8" 20GA METAL STUD WALL W/ ⅝" TYPE "X" GYP BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| W2 | 3-5/8" 20GA METAL STUD WALL W/ ⅝" TYPE "X" GYP BOARD ON ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| W2S | (2) 3-5/8" 20GA METAL STUD WALLS W/ ⅝" TYPE "X" GYP BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| W4 | 3-5/8" 20GA METAL STUD LOW WALL W/ ⅝" TYPE "X" GYP BD BOTH SIDES. PROVIDE 3 ½" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" OC |
| W5 | 6" 20GA METAL STUD WALL W/ ⅝" TYPE "X" GYP BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| W6 | 6" 20GA METAL STUD WALL W/ ⅝" TYPE "X" GYP BOARD ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS) |
| W7 | 6" 20GA METAL STUD LOW WALL W/ ⅝" TYPE "X" GYP BOARD BOTH SIDES. PROVIDE 3 ½" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" OC |
| W8 | 2 1/2" 20GA METAL STUD FURRING W/ ⅝" TYPE "X" GYP BOARD ON ONE SIDE. REFER DETAILS FOR FURRING DISTANCE |

## WALL PANEL SCHEDULE

INSTALLED AND FURNISHED BY GC UNLESS NOTED OTHERWISE

| NO | MANUFACTURER | DESCRIPTION | MFG # | COLOR FINISH | REMARK |
|---|---|---|---|---|---|
| WP1 | CRANE COMPOSITES INC. | FRP THICKNESS: .075 | LBCS.14 | #636 (GRAY), SM/SM | CONTACT: LINDA RUSE 310.857.9036 |
| WP2 | - | SS PANEL (22 GA) | - | BRUSHED FINISH | FURNISHED BY PX, INSTALLED BY GC |
| WP3 | - | SS PANEL (22 GA) | - | DIAMOND PATTERN FINISH | FURNISHED BY PX, INSTALLED BY GC |
| WP4 | NOT USED | | | | |
| WP6 | NOT USED | | | | |
| W101 | NOT USED | | | | |
| W102 | WOLF GORDON | RED BAMBOO | - | - | CONTACT: CATHY DY 310.770.1165 cathy.dy@wolfgordon.com |
| W103 | WOLF GORDON | CLOUD WALLCOVERING | - | - | CONTACT: CATHY DY 310.770.1165 cathy.dy@wolfgordon.com |

## SPECIAL SURFACE SCHEDULE

INSTALLED AND FURNISHED BY. GC UNLESS NOTED OTHERWISE

| NO | MANUFACTURER | PRODUCT | MFG # | STAIN / COLOR | FINISH | REMARK |
|---|---|---|---|---|---|---|
| QZ-5 | NOT USED | | | | | |
| QZ-6 | NOT USED | | | | | |
| QZ-7 | CORIAN | ARTIFICIAL QUARTZ | - | LONDON SKY | POLISHED | |
| QZ-8 | DALTILE | ARTIFICIAL QUARTZ | - | BROADWAY BLACK | POLISHED | SERVICE COUNTER & DRINK STATION PROVIDED BY PX, INSTALLED BY GC |

## INTERIOR PAINT SCHEDULE

INSTALLED AND FURNISHED BY. GC UNLESS NOTED OTHERWISE

| NO | MANUFACTURER | MFG # | COLOR | FINISH | REMARK |
|---|---|---|---|---|---|
| P9A | SHERWIN-WILLIAMS | SW 7065 | ARGOS | PROMAR 200, ZERO VOC, LATEX SEMI-GLOSS | REAR SERVICE DOOR |
| P9B | NOT USED | | | | |
| P101 | SHERWIN-WILLIAMS | SW 6252 | ICE CUBE | PROMAR 200, ZERO VOC, LATEX EGG-SHELL | RESTROOM & RESTROOM VESTIBULE CEILING, FRONT AND UNDERSIDE OF SERVICE LINE SOFFIT/BULKHEAD AND DINING RM. SOFFIT |
| P102 | NOT USED | | | | |
| P103 | NOT USED | | | | |
| P104 | SHERWIN-WILLIAMS | SW 2850 | CHELSEA GRAY | PROMAR 200, ZERO VOC, LATEX EGG-SHELL | DINING RM WALLS, RESTROOM VESTIBULE WALLS |
| P105 | NOT USED | | | | |
| P106 | SHERWIN-WILLIAMS | SW 7020 | BLACK FOX | DTM ACRYLIC GLOSS, LOW VOC | RESTROOM DOOR FRAMES & LCD NICHE (BACK WALL) |
| P205 | SHERWIN-WILLIAMS | SW 7675 | SEALSKIN | PROMAR 200, ZERO VOC, LATEX EGG-SHELL | FRONT & BACK & UNDERSIDE FACES OF MENU BOARD |

TILE SCHEDULE (SEE SHEET A-104)

## WALL LEGEND

- NEW EXTERIOR WALL
- NEW EXTERIOR WALL FRAMED WITH STRUCTURAL STEEL STUDS
- NEW INTERIOR WALL (FULL HT.)
- NEW INTERIOR WALL (LOW WALL - REF. ELEV. & DETAILS)
- WALK-IN BOX PANEL

NOTE: THE FOLLOWING STAINLESS STEEL PROVIDED BY PX--INSTALLED BY GC:
1. PANEL DIVIDERS AT WP3
2. INSIDE CORNER AT WP3 TO WP2
3. FLASHING AT TOP OF BASE WP3
4. WP2 PIECE AT LENGTH OF WALL

NOTE: THE FOLLOWING STAINLESS STEEL PROVIDED BY GC-INSTALLED BY GC:

5. INSTALL 18 GA STAINLESS STEEL CORNER GUARD & WALL CAP INSIDE KITCHEN

- CG-1: 18 GA STAINLESS STEEL CORNER GUARD - FULL HT.
- CG-1A: 18 GA STAINLESS STEEL CORNER GUARD - 4'-0" HIGH
- CG-2: 18 GA STAINLESS STEEL CORNER GUARD/FRAME - ALL AROUND PERIMETER OF OPENING - FRAME TO BE WELDED WITH MITERED CORNERS TO FORM SINGLE UNIT.
- WC-1: 18 GA STAINLESS STEEL WALL CAP

ALL OTHER STAINLESS STEEL BY GC

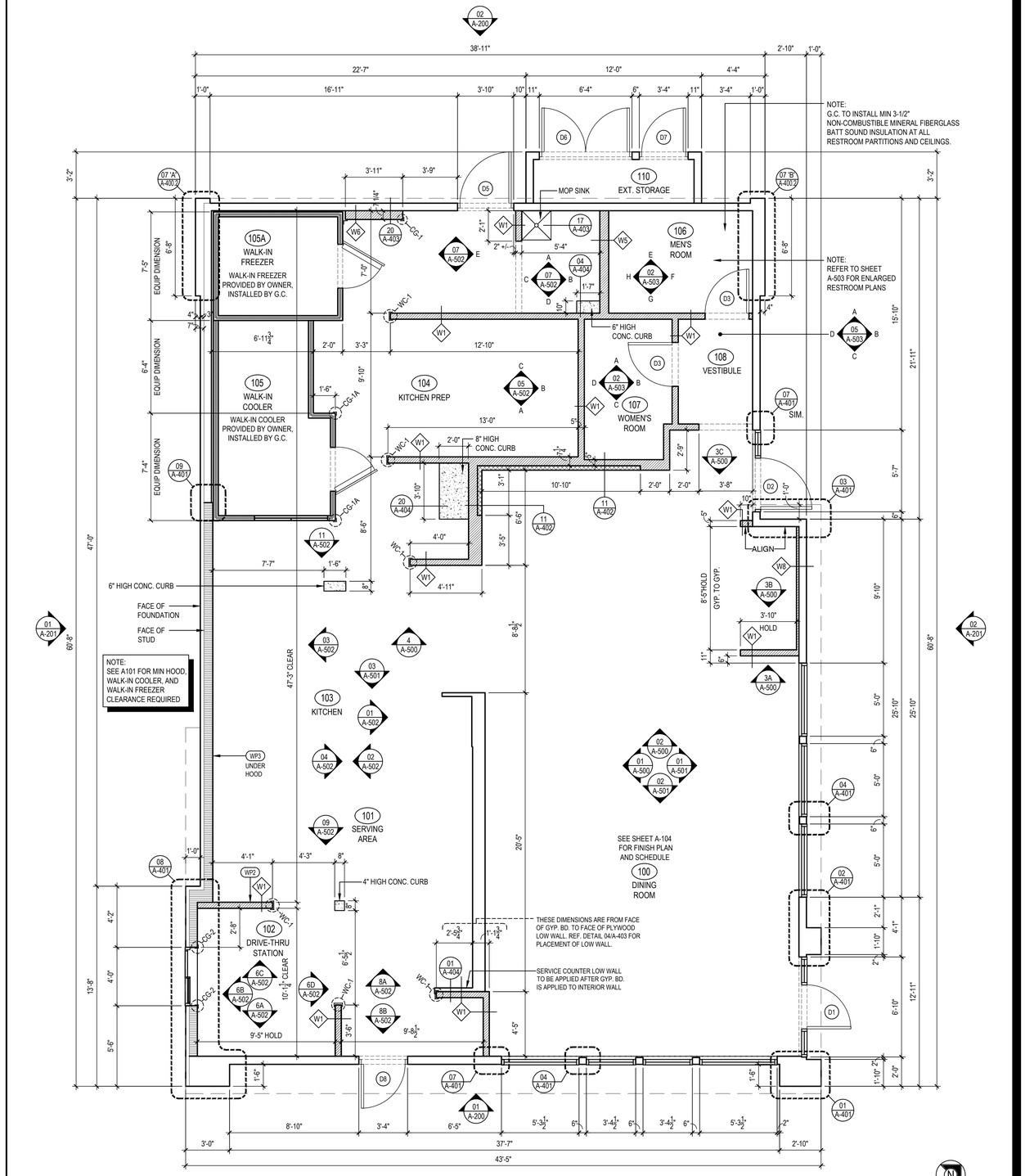
**NOTE:**

***ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD**

**NOTE:**

**CONTRACTOR TO NOTIFY 3rd PARTY VENDOR, PER THE VENDOR LIST, FOR WALL PRE-TREAT BEFORE CLOSING WALLS**

NOTE:
FIELD VERIFY CLEARANCES FOR HOOD AND COOLER / FREEZER TO ENSURE REQUIRED INSTALLATION CLEARANCES HAVE BEEN MET




FLOOR PLAN 1
Scale= 1/4" = 1'-0" A-103


PANDA EXPRESS
CHINESE KITCHEN

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STATE OF GEORGIA
ROBERT S DAY
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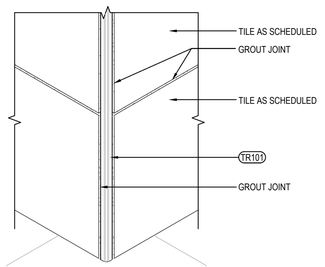
PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

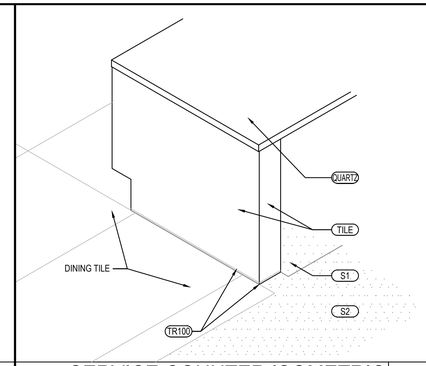
# A-103

FLOOR PLAN

TRUE WARM & WELCOME 2300 R6




OUTSIDE CORNER DETAIL | 3
Scale= 3" = 1'-0" | A-104




SERVICE COUNTER ISOMETRIC | 2
Scale= 3/4" = 1'-0" | A-104

## TILE SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

01-11-19

| NO. | MANUFACTURER | DESCRIPTION | COLOR | FINISH | JOINT | GROUT | REMARK |
|---|---|---|---|---|---|---|---|
| T-108 | CMC AGGREGATE<br>DOUG SALATINO 518-713-5371 | 12" X 24" X 3/8" | - | - | 1 / 8" | G-111 | RESTROOM WALL |
| T-111 | DALTILE | 6" X 36" X 3/8"<br>9" X 36" X 3/8" | FOREST PARK - SUMMERTREE FP95 | MATTE | 1/8" | G-115 | RR VESTIBULE & DINING ROOM WALLS<br>CONTACT: NATIONAL ACCOUNT SUPPORT DESK<br>877.556.5728 (national.accounts@daltile.com) |
| T-200 | CMC<br>DOUG SALATINO 518-713-5371 | 24" X 24" | BRAVADA GREIGE | MATTE | 1/8" | G-96 | DINING & RESTROOM FLOOR |
| T-300 | EMSER - ECHO | 3" HEXAGON | CALACATTA | MATTE | 1/8" | G-114 | BEVERAGE COUNTER BACKSPLASH AND SERVICE COUNTER |
| T-402 | CMC<br>DOUG SALATINO 518-713-5371 | 8" HEXAGON ROUNDABOUT | GREY | MATTE | 1/8" | G-107 | DINING ROOM FEATURE AREA |
| S1 | SILIKAL | QUARTZ BLEND #4 | - | PLAIN | - | - | KITCHEN, SERVICE FLOOR<br>CONTACT MARK FELDMAN 770-830-1404<br>(mfeldman@silikalamerica.com)<br>JOHN COTHRAN 888-830-1404<br>(jcothran@silikalamerica.com) |
| S2 | SILIKAL | QUARTZ BLEND #4 | - | ABRASIVE | - | - | |
| | | | | | | | |
| GROUT | MANUFACTURER | DESCRIPTION | MFG. | COLOR | FINISH | | REMARK |
| G-96 | MAPEI<br>800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 11 | SAHARA BEIGE | POLY BLEND 1 / 8" NON-SANDED | | DINING & RESTROOM FLOOR<br>APPLY GROUT SEALER |
| G-107 | MAPEI<br>800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 107 | IRON | POLY BLEND 1 / 8" NON-SANDED | | DINNING ROOM FLOOR<br>APPLY GROUT SEALER |
| G-111 | MAPEI<br>800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 19 | PEARL GREY | POLY BLEND 1 / 8" NON-SANDED | | RESTROOM , DINING<br>APPLY GROUT SEALER |
| G-113 | MAPEI<br>800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 07 | CHOCOLATE | POLY BLEND 1 / 8" NON-SANDED | | APPLY GROUT SEALER |
| G-114 | MAPEI<br>800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 19 | PEARL GREY | POLY BLEND 1 / 8" NON-SANDED | | BEVERAGE COUNTER BACKSPLASH<br>APPLY GROUT SEALER |
| G-115 | MAPEI<br>800.42.MAPEI WWW.MAPEI.COM | LATEX MODIFIED GROUT | 42 | MOCHA | POLY BLEND 1 / 8" NON-SANDED | | APPLY GROUT SEALER |

* REFER A-200 EXTERIOR FINISH SCHEDULE FOR EXTERIOR DECORATIVE TILE

* SCHLUTER SYSTEM ALUMINUM TRIM:

COVE TILE TRIM: INSTALLED AT RESTROOM, SERVICE COUNTER, AND DRINK STATION

SCHLUTER SYSTEMS DILEX-AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR100 -OUTSIDE CORNER CONNECTOR PIECE: DILEX-AHK-E90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

-INSIDE CORNER CONNECTOR PIECE: DILEX-AHK-I90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

-END CAP PIECE: DILEX-AHK-E/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

EDGE TILE TRIM:

SCHLUTER SYSTEMS RONDEC-RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR101 -OUTSIDE CORNER CONNECTOR PIECE: RONDEC-EV/RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

-INSIDE CORNER CONNECTOR PIECE: RONDEC-I2L/RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

SCHLUTER SYSTEMS RONDEC-RO80 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR101A -OUTSIDE CORNER CONNECTOR PIECE: RONDEC-EV/RO180 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

-INSIDE CORNER CONNECTOR PIECE: RONDEC-I2L/RO80 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

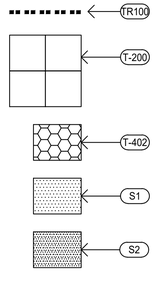
SCHLUTER SYSTEMS JOLLY-A 80 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

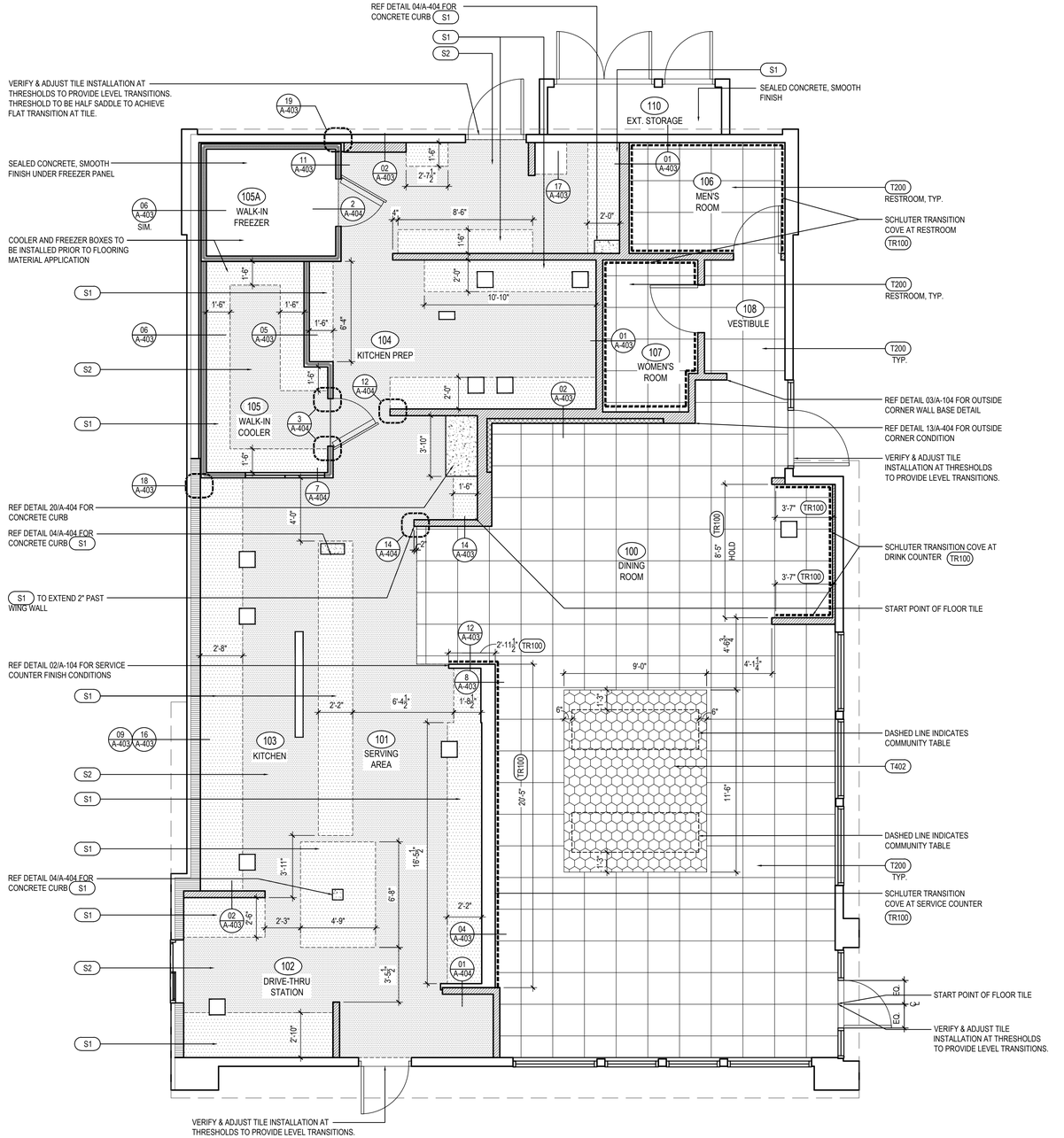
TR103 -OUTSIDE EDGE PROTECTION PIECE

* EPOXY GROUT BY MAPEI, KERAPOXY IEG, 100% SOLIDS INDUSTRIAL GRADE:
AREAS: UNDER HOOD AND 36 " IN FRONT OF COOKING LINE, 3 COMPARTMENT SINK AND MOP SINK AREA

SEE MANUFACTURER'S SPECIFICATION, DETAILS AND GUIDE FOR PREPARATION, MIXING, GROUTING AND CLEANING INSTRUCTION

NOTE: SEE INTERIOR SHEETS FOR WALL/ BASE TILE LOCATIONS AND SPECIFICATIONS




FINISH SCHEDULE | A
Scale= NTS | A-104

FINISH PLAN | 1
Scale= 1/4" = 1'-0" | A-104

PANDA RESTAURANT GROUP INC.
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C&P PROJECT #: - 2210604

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PANDA EXPRESS

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COVINGTON, GEORGIA 30014

A-104

FINISH PLAN AND SCHEDULE

# LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

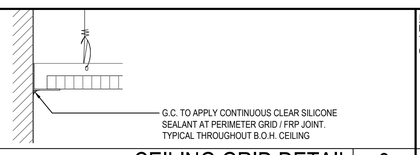
01-11-19

| ITEM | SYMBOL | DESCRIPTION | QTY. | MFR. & CAT. NO. | REMARK |
|---|---|---|---|---|---|
| **INTERIOR LIGHTING ITEM** | | | | | |
| L1 | L1 | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | REFER TO ELECTRICAL SHEET E-001 FOR LIGHTING FIXTURE QUANTITY | LSI<br>FIXTURE: SFP24-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS,<br>FURNISHED BY OWNER INSTALLED BY GC |
| L1B | L1B | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 2', 120V BAKED-ON WHITE ENAMEL FINISH. | | LSI<br>FIXTURE: ESFP22-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS,<br>FURNISHED BY OWNER INSTALLED BY GC |
| L1C | L1C | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 1' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | | LSI<br>FIXTURE: SFP14-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS,<br>FURNISHED BY OWNER INSTALLED BY GC |
| L1EM | L1EM | T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | | LSI<br>FIXTURE: SFP24-LED-FS-UNV-DIM-EM | EMERGENCY KITCHEN CEILING LIGHTS<br>FURNISHED BY OWNER INSTALLED BY GC |
| L4HO | L4HO | UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER | | EXITRONIX GVEX-U-BP-WB-BL-R6 | EXIT SIGN<br>FURNISHED BY OWNER, INSTALLED BY GC |
| L6A | L6A | HOOD LIGHT | | FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER | LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR.<br>ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL |
| L6B | L6B | WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48" | | KASON<br>FIXTURE: # 1810LX4000 | FURNISHED BY WIC VENDOR, G.R.E. , INSTALLED BY GC |
| L19 | L19 | DOWN LIGHT, RECESSED IN CEILING | | ELITE HOUSING: LD6IC-AT<br>LED MODULE: ELITE LED LIGHTING<br>RL607-750L-DIMTR-120-30K-SN-SN-90+ | FURNISHED BY OWNER, INSTALLED BY GC |
| L19EM | L19EM | EMERGENCY DOWN LIGHT, RECESSED IN CEILING | | ELITE HOUSING: LD6IC-AT<br>LED MODULE: ELITE LED LIGHTING<br>RL607-750L-DIMTR-120-30K-SN-SN-90+ | EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1<br>FURNISHED BY OWNER INSTALLED BY GC |
| L20W | L20W | 3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING.<br>"W" SHALL DESIGNATE WHITE TRIM USED FOR MENU BD. SOFFIT | | LIGHTOLIER: LYTECASTER-378WHX<br>FRAME-IN KIT: 302MRSPX<br>BULB: MR16 - GE - PRECISE IR 37 WATT 40 ° BEAM | FURNISHED BY OWNER, INSTALLED BY GC |
| L20B | L20B | 3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING.<br>"B" SHALL DESIGNATE BLACK TRIM USED FOR DINING ROOM CEILING GRID | | LIGHTOLIER: LYTECASTER-378WHX<br>FRAME-IN KIT: 302MRSPX<br>BULB: MR16 - GE - PRECISE IR 37 WATT 40 ° BEAM | FURNISHED BY OWNER, INSTALLED BY GC |
| L30 | L30 | WHITE LED AT SERVICE COUNTER SOFFIT & DINING ROOM PARTIAL HEIGHT WALL | | LUXEM BRIGHT<br>FIXTURE: BLAZE LED | FURNISHED BY OWNER, INSTALLED BY GC |
| L32 | L32 | WHITE LED AT MURAL LIGHT COVE | | NOVA FLEX - PRO SERIES<br>FIXTURE: BENDABLE 3916 | FURNISHED BY OWNER, INSTALLED BY GC |
| L45 | L45 | 12" DIA. DECORATIVE MORILL PENDANT<br>LF INCANDESCENT | | LBL LIGHTING, MODEL # 6227801-839<br>BULB:<br>LED EDISON LAMP.1173467 | FURNISHED BY OWNER, INSTALLED BY GC |
| L100 | L100 | MICRO INVERTER | | ISOLITE #IMI 125 | FURNISHED BY OWNER, INSTALLED BY GC |
| L40 | L40C–R | 17.3" DIA. RED CUPOLA PENDANT | | HI-LITE, MODEL #H-VLPDM3-RDMT | FURNISHED BY OWNER, INSTALLED BY GC |
| | S | SPEAKER | | - | FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR |

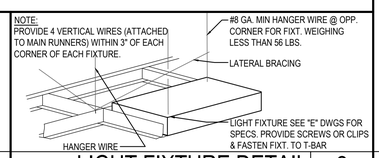
NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE

**EXTERIOR LIGHTING**

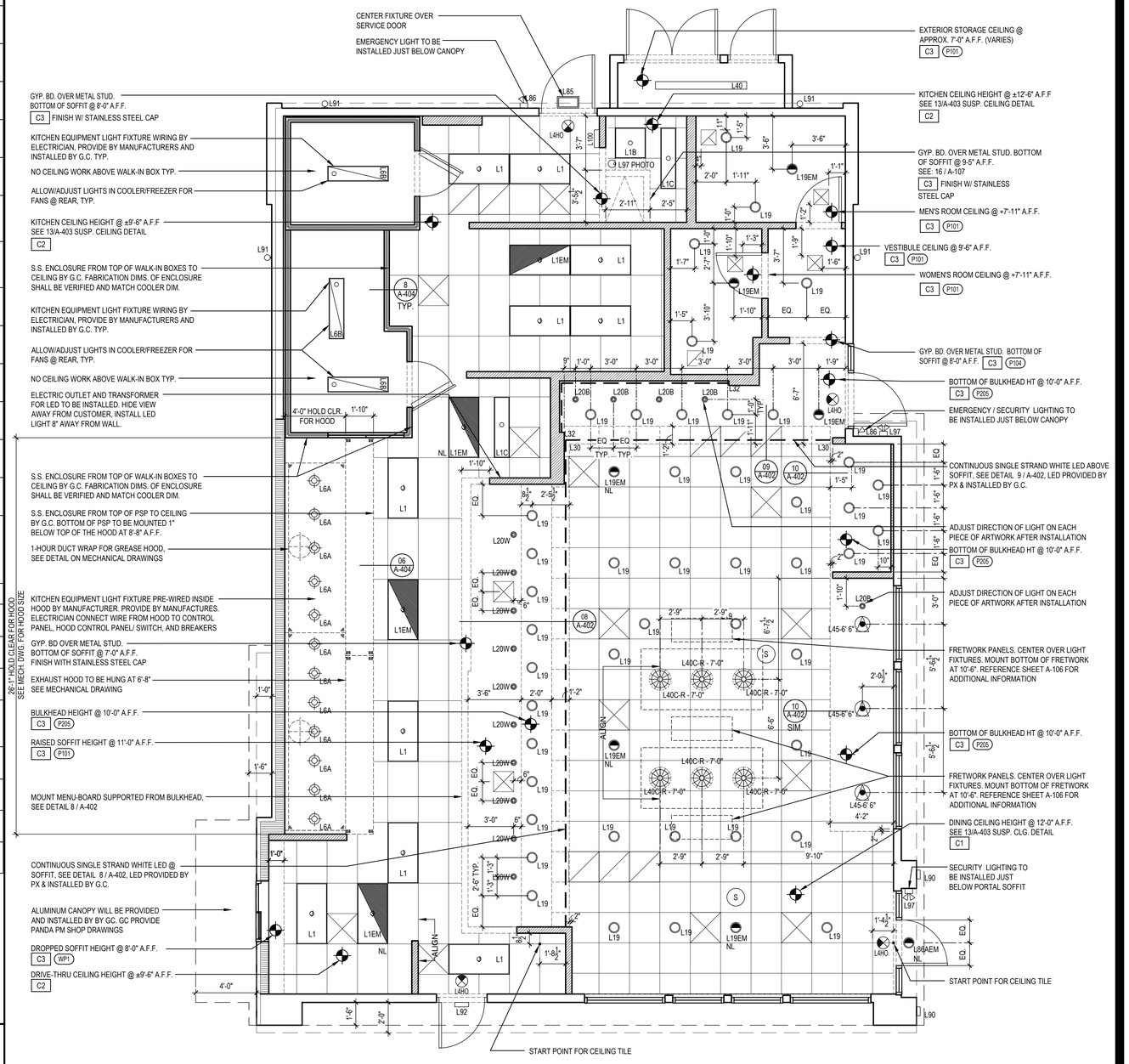
| | | | | | |
|---|---|---|---|---|---|
| L40 | L40 | LINEAR LIGHT AT EXTERIOR STORAGE ROOM | REFER TO ELECTRICAL SHEET E-001 FOR LIGHTING FIXTURE QUANTITY | COOPER<br>MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U | FURNISHED BY OWNER, INSTALLED BY GC |
| L85 | | WALL MOUNTED OVER SERVICE DOOR FIXTURE | | HOWARD: VL305<br>30W LED, BRONZE | OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT<br>FURNISHED BY OWNER, INSTALLED BY GC |
| L86 | | NAVILITE EMERGENCY LIGHT | | EXITRONIX<br>MLED1-G-WP | OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC |
| L86 AEM | | EXTERIOR RECESS EMERGENCY LIGHT | | ELITE HOUSING: LD6IC-AT<br>LED MODULE: ELITE LED LIGHTING<br>WET LOCATION:<br>RL607-14W-120-FL-30K-SN-SN -WET LOCATION | EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1<br>FURNISHED BY OWNER INSTALLED BY GC |
| L90 | | DECORATIVE LED WALL SCONCE | | HINKLEY LIGHTING,<br>ATLANTIS; BRONZE; 1649BZ-LED | AT PORTAL OF ENTRY DOOR. REFER ELEVATIONS FOR HEIGHT<br>FURNISHED BY OWNER, INSTALLED BY GC |
| L92 | | WALL MOUNTED OVER SERVICE DOOR FIXTURE | | HINKLEY LIGHTING, SILO; BRONZE;<br>13594AZ-LL; LED | OVER DRIVE THRU AREA SERVICE DOOR FURNISHED BY OWNER,<br>INSTALLED BY GC |
| L97 | | LED MOTION SECURITY FLOODLIGHT | | LITHONIA LIGHTING<br>OLF 2RH 40K 120V MO BZ | INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142"<br>FURNISHED BY OWNER, INSTALLED BY GC |
| L91 | | DECORATIVE LED WALL SCONCE | | HINKLEY LIGHTING,<br>SILO; BRONZE; 13594AZ-LL; LED | ALONG REAR EIFS BAND<br>FURNISHED BY OWNER, INSTALLED BY GC |




CEILING GRID DETAIL 3
Scale= NTS A-105




LIGHT FIXTURE DETAIL 2
Scale= NTS A-105




REFLECTED CEILING PLAN 1
Scale= 1/4" = 1'-0" A-105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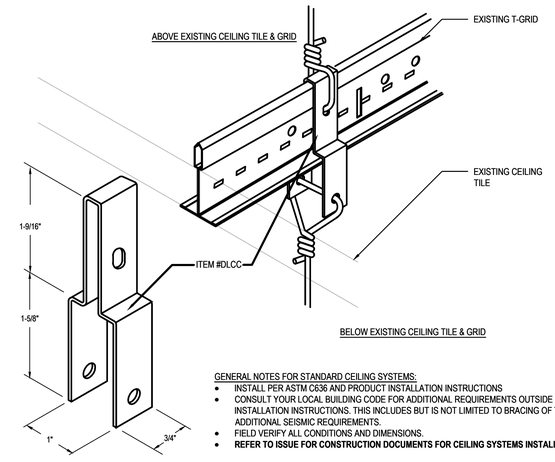
REFLECTED CEILING PLAN

TRUE WARM & WELCOME 2300 R6

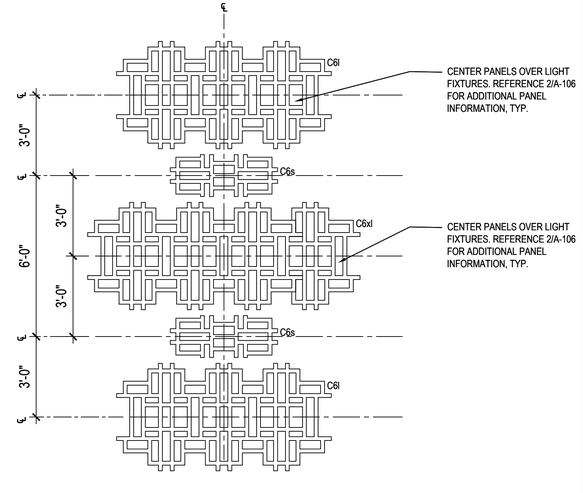



GENERAL NOTES FOR STANDARD CEILING SYSTEMS:

- INSTALL PER ASTM C636 AND PRODUCT INSTALLATION INSTRUCTIONS
- CONSULT YOUR LOCAL BUILDING CODE FOR ADDITIONAL REQUIREMENTS OUTSIDE OF ARMSTRONG INSTALLATION INSTRUCTIONS. THIS INCLUDES BUT IS NOT LIMITED TO BRACING OF TRANSITIONS, AND ADDITIONAL SEISMIC REQUIREMENTS.
- FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
- **REFER TO ISSUE FOR CONSTRUCTION DOCUMENTS FOR CEILING SYSTEMS INSTALLATION DETAILS.**

## DIRECT LOAD CEILING CLIP DETAIL 2

Scale= 1" = 1'-0" A-106




## FRETWORK PLAN (SOLUTION F.2) 1

Scale= 3/8" = 1'-0" A-106

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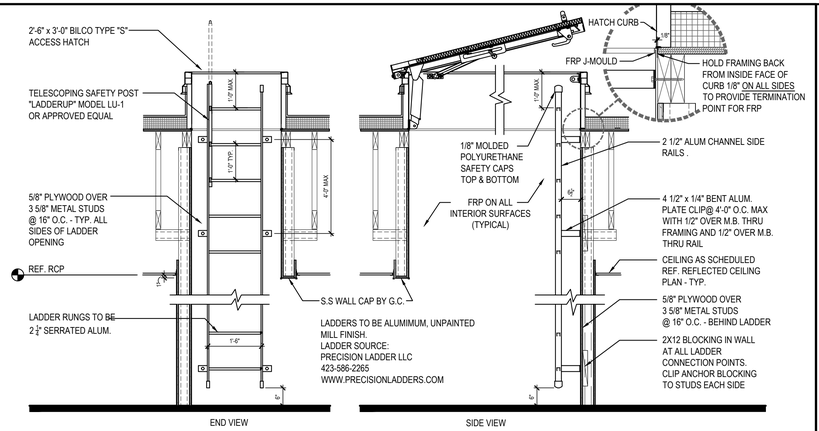
# A-106

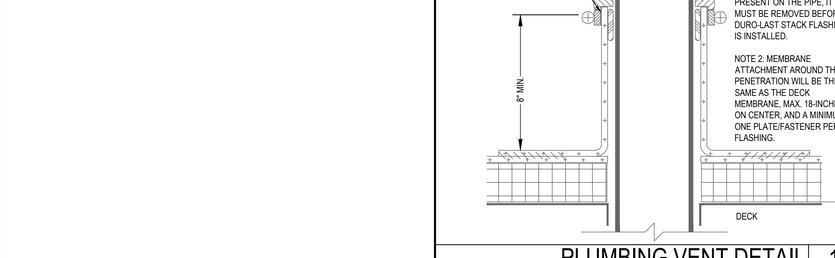
FRETWORK PLAN

TRUE WARM & WELCOME 2300 R6




## ROOF ACCESS LADDER DETAIL 16

Scale= 1/4" = 1'-0" A-107




**C OVERFLOW DRAIN**
NOTE:
WHERE INSULATION IS SPECIFIED PROVIDE AN ADJUSTABLE COLLAR AND SET IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS.

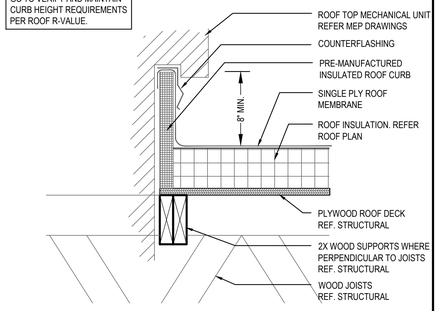
**B ROOF DRAIN**
PROVIDE JAY R. SMITH (OR EQUAL) ROOF DRAIN AND OVERFLOW DRAIN -CAST IRON BODY -POLYETHYLENE DOME

**A PLAN-ROOF/OVERFLOW DRAIN WELL**

## ROOF DRAIN DETAIL 15

Scale= NTS A-107

NOTE:
GC TO VERIFY AND MAINTAIN CURB HEIGHT REQUIREMENTS PER ROOF R-VALUE.



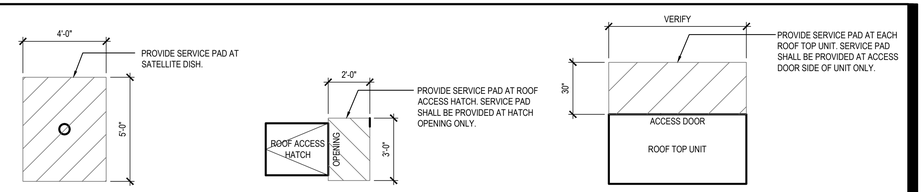

## MECHANICAL CURB DETAIL 14

Scale= NTS A-107




## PLUMBING VENT DETAIL 13

Scale= NTS A-107




## ROOF WALKWAY PAD DETAIL 4

Scale= NTS A-107

## ROOF PLAN NOTES:

1. WHITE, SINGLE-PLY, PVC 40MIL MECHANICALLY FASTENED ROOF MEMBRANE, AS MANUFACTURED BY DURO-LAST ROOFING, INC. NO ALTERNATES WILL BE ACCEPTED. PROVIDE STANDARD 15 YEAR WARRANTY.

2. -6" INDICATES APPROXIMATE ELEVATION OF THE TOP OF ROOF PLYWOOD SHEATHING AT PLYWOOD CRICKET. SEE TRUSS DRAWINGS FOR ACTUAL ROOF SLOPE. ALL ROOF ELEVATIONS ARE GIVEN FROM TOP OF INTERIOR CONCRETE FLOOR SLAB (U.O.N.). WHEN FLOOR SLAB STEPS, ELEVATIONS ARE REFERENCED FROM THE HIGHEST FINISHED FLOOR.

3. ANY PROJECTION THROUGH ROOF SHALL BE DETAILED PER THE SINGLE PLY ROOFING MANUFACTURER'S RECOMMENDED DETAILS.

4. ALL EXHAUST FANS AND AIR CONDITIONING EQUIPMENT DESIGNATIONS ARE TAKEN FROM MECHANICAL DRAWINGS.

5. NOT USED.

6. CONTRACTOR SHALL CONFIRM THAT ALL AREAS OF ROOF ARE PROVIDED WITH POSITIVE DRAINAGE.

7. ALL ROOF PENETRATIONS FOR PLUMBING VENTS, POWER CONDUITS, ETC. SHALL BE FLASHED PER BUILDING SPECIFICATIONS AND DETAILS. VENTS SHALL BE AT LEAST 10'-0" HORIZONTAL OR 3'-0" ABOVE OUTSIDE AIR INTAKES ( A/C UNITS, MAKE-UP AIR ).

8.CONTRACTOR BE RESPONSIBLE FOR COORDINATION OF SIZES AND LOCATIONS OF ROOF OPENINGS (VENTS, DUCTS, ETC.), PLATFORMS, BASES ETC. COORDINATE SIZES OF MECHANICAL EQUIPMENT PLATFORMS, BASES, ROOF EQUIPMENT PLATFORMS AND OPENINGS SHOWN ON DRAWINGS WITH EQUIPMENT BEING SUPPLIED. SEE TYPICAL DETAILS ON THIS SHEET ALSO COORDINATE INSTALLATION OF LIGHTING, POWER, CONVENIENCE OUTLETS ETC.

10. FOR ALL STRUCTURAL FRAMING MEMBERS, SIZES, AND ADDITIONAL INFORMATION, SEE STRUCTURAL DRAWINGS.

11. PROVIDE ROOF CRICKET AT MECHANICAL EQUIPMENT TO ASSURE POSITIVE ROOF DRAIN.

12. ALL ROOF EQUIPMENT TO BE SCREENED FROM PUBLIC VIEW.

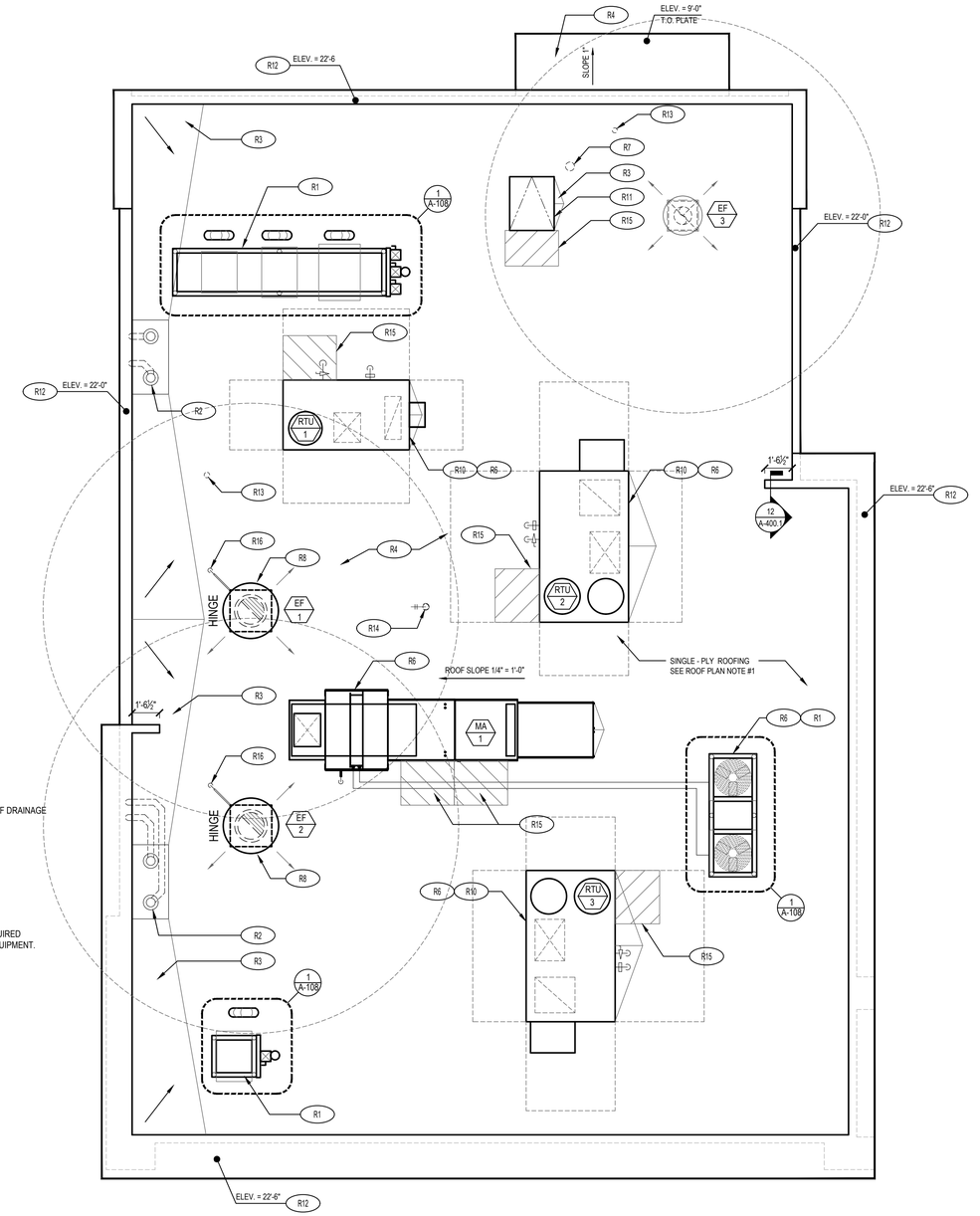
13. ROOFTOP EQUIPMENT TO BE LOCATED AT LEAST 42" MINIMUM FROM TOWERS FOR SERVICING

14. PROVIDE SERVICE PAD AT EACH UNIT ONLY AT SERVICE ACCESS DOOR

15. ALL GAS PIPING ON ROOF TO BE PAINTED SAFETY YELLOW

## ROOF PLAN KEYNOTES:

- R1 EQUIPMENT RACK
- R2 4" ROOF DRAIN AND OVERFLOW DRAIN (15 / A-107)
- R3 TAPERED ROOF INSULATION CRICKET TO ASSURE POSITIVE ROOF DRAINAGE
- R4 SINGLE - PLY ROOFING SEE ROOF PLAN NOTE #1
- R5 NOT USED
- R6 ROOF TOP MECHANICAL UNIT SEE MECHANICAL DRAWING
- R7 WATER HEATER VENT - SEE MEP PLANS. OFFSET VENTS AS REQUIRED TO MAINTAIN MIN. 10'-0" AWAY FROM AIR INTAKE SYSTEMS ON EQUIPMENT.
- R8 EXHAUST FAN
- R10 MECHANICAL UNIT CURB. SEE DETAIL 14/A-107
- R11 ROOF ACCESS HATCH LOCATE BETWEEN 2 ADJACENT TRUSSES (16 / A-107)
- R12 TOP OF PLATE - REF. STRUCTURAL
- R13 PLUMBING VENT (13 / A-107)
- R14 WEATHER PROOF HYDRANT
- R15 PROVIDE WALK-WAY PAD AS SHOWN, REFERENCE DETAIL 4/A-107
- R16 POWER SUPPLY LOCATION FOR ROOFTOP EXHAUST FANS FOR KITCHEN HOOD




N

## ROOF PLAN 1

Scale= 1/4" = 1'-0" A-107

PANDA EXPRESS CHINESE KITCHEN

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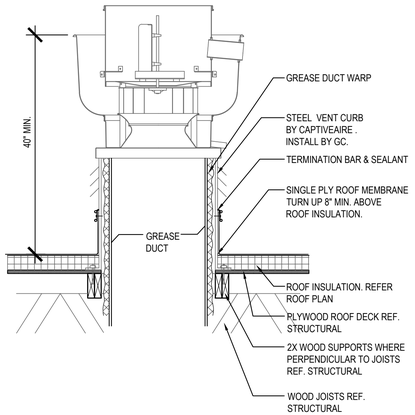
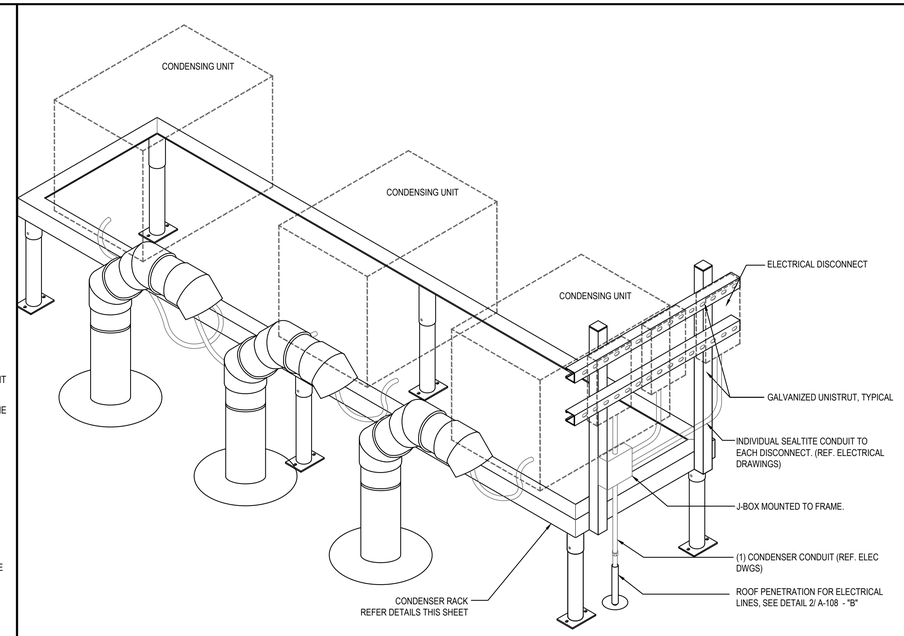
ROOF PLAN

TRUE WARM & WELCOME 2300 R6




## ROOF EXHAUST FAN 5

Scale= 1/4" = 1'-0" A-108




## CONDENSER RACK ISOMETRIC 3

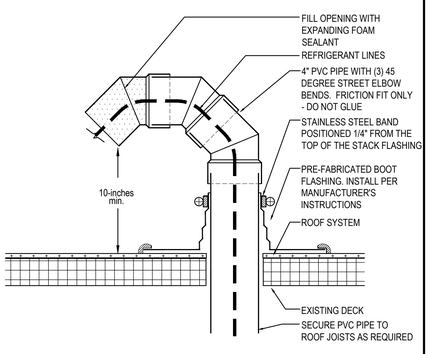
Scale= 3/4" = 1'-0" A-108




CONDITION "B" - AT CONDENSER ELECTRICAL LINES

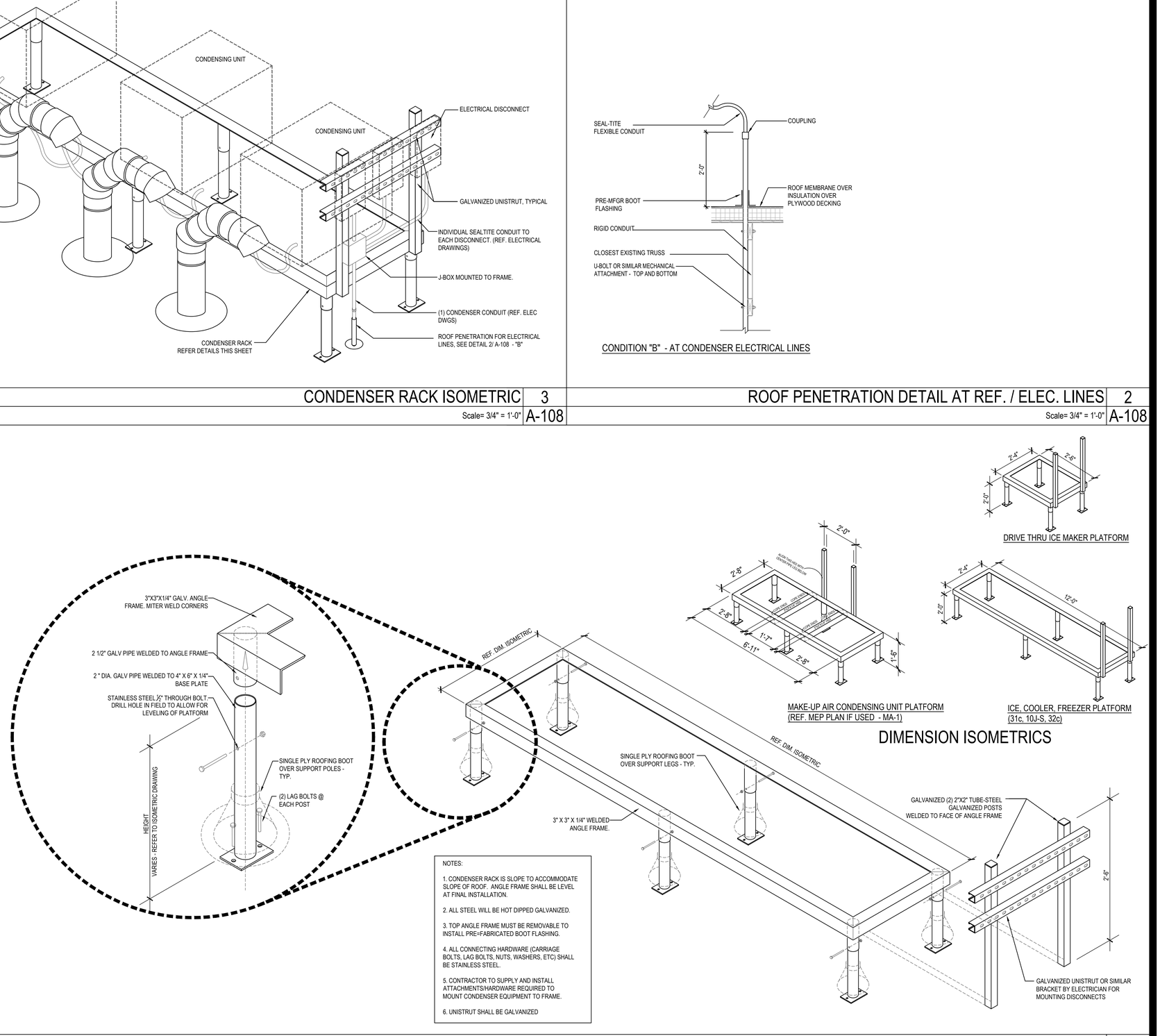
## ROOF PENETRATION DETAIL AT REF. / ELEC. LINES 2

Scale= 3/4" = 1'-0" A-108




## PVC ROOF PENETRATION 4

Scale= 1/2" = 1'-0" A-108




## FREEZER / COOLER / ICE MAKER CONDENSER RACK DETAILS 1

Scale= 3/4" = 1'-0" A-108




DRIVE THRU ICE MAKER PLATFORM




MAKE-UP AIR CONDENSING UNIT PLATFORM (REF. MEP PLAN IF USED - MA-1)




ICE, COOLER, FREEZER PLATFORM (31c, 10J-S, 32c)

## DIMENSION ISOMETRICS

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

Cuhaci & Peterson Architects Engineers Planners
2600 Maitland Center Pkwy. Maitland, FL 32751
P (407) 661-9100
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www.cpa.us
Florida Corporate Certificate #AA C000526

02.08.2022

STATE OF GEORGIA ★ ROBERT S DAY ★ CERTIFICATE NO. RA015212 REGISTERED ARCHITECT

# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-108

CONDENSER RACK DETAIL

# FURNITURE SCHEDULE

| Item Code | Type | Material | | L x W x H |
|---|---|---|---|---|
| T-E1a2 | COMMUNITY TABLE | QUARTZ - CORIAN LONDON SKY - COREDRILL | PANDA VENDOR | 8'-0" L X 28" W X 34" H |
| T-E1a3 | COMMUNITY TABLE | QUARTZ - CORIAN LONDON SKY - COREDRILL | PANDA VENDOR | 10'-0" L X 28" W X 34" H |
| T-B3b3 | 4 TOP TABLE | QUARTZ - CORIAN BROADWAY BLACK - COREDRILL | PANDA VENDOR | 48" W X 24" D X 30" H |
| T-B4a1 | 42" ROUND TABLE | QUARTZ - CORIAN LONDON SKY - COREDRILL | PANDA VENDOR | 42" DIA. X 34" H |
| T-B4d1 | 30" ROUND TABLE | QUARTZ - CORIAN LONDON SKY - COREDRILL | PANDA VENDOR | 30" DIA. X 34" H |
| T-C1b3 | 4 TOP TABLE | LAMINATE W/ METAL EDGE BARRIQUE OAK - MOVEABLE BASE | PANDA VENDOR | 48" W X 24" D X 30" H |
| T-C1d3 | 2 TOP TABLE | LAMINATE W/ METAL EDGE BARRIQUE OAK - MOVEABLE BASE | PANDA VENDOR | 21" W X 24" D X 30" H |
| | | | | |
| C-A4a | A-FRAME SINGLE BOOTH | OAK / CYPRUS / BARRAS | PANDA VENDOR | 41" W X 23" D X 17" H |
| C-A4b | A-FRAME SINGLE BOOTH | OAK / CYPRUS / BARRAS | PANDA VENDOR | 47" W X 23" D X 17" H |
| C-A4c | A-FRAME SINGLE BOOTH | OAK / CYPRUS / BARRAS | PANDA VENDOR | 59" W X 23" D X 17" H |
| C-A4d | A-FRAME DOUBLE BOOTH | OAK / CYPRUS / BARRAS | PANDA VENDOR | 47" W X 23" D X 17" H |
| | | | | |
| B-S1a | I-BEAM BASE 34" H | HOT ROLL STEEL W/ LOW GLOSS CLEAR COAT | PANDA VENDOR | FOR 34" H TABLE |
| B-S2a | 3" FREE STANDING CRISS CROSS | | PANDA VENDOR | FOR 30" ROUND TABLE |
| B-S2b | 3" FREE STANDING CRISS CROSS | | PANDA VENDOR | FOR 21" X 24" TABLE |
| B-S3a | 3" BOLT DOWN | | PANDA VENDOR | FOR 30" H TABLE |
| B-S4a | 3" CORE DRILL | | PANDA VENDOR | FOR 30" H TABLE |
| B-S5a | SIT DOWN BASE | | PANDA VENDOR | FOR 34" H LEDGE TABLE |
| B-B1 | SPECIAL BRACKETS | | PANDA VENDOR | FOR MODESTY PANEL |
| | | | | |
| F-B1 | TRASH LINER W/ CASTERS | | PANDA VENDOR | |
| F-A4c | LEFT BROOM HOLDER | OAK W/ LONDON SKY TOP | PANDA VENDOR | 20" W X 27" D X 48 H |
| F-A4d | RIGHT BROOM HOLDER | OAK W/ LONDON SKY TOP | PANDA VENDOR | 20" W X 27" D X 48 H |
| | | | | |
| D-S1 | FREE STANDING SHELF | WOOD SHELF W/ METAL FRAME | PANDA VENDOR | 30" W X 12" W 66" H |
| D-S2 | FREE STANDING SHELF | WOOD SHELF W/ METAL FRAME | PANDA VENDOR | ??" W X ??" W ??" H |

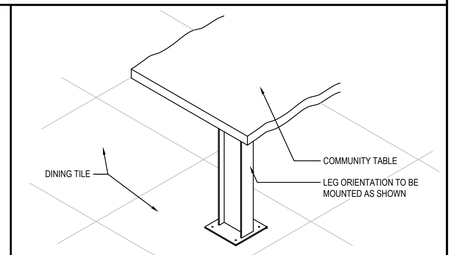
# CHAIR SCHEDULE

| Item Code | Type | Material | | L x W x H |
|---|---|---|---|---|
| OAK PALLET | | | | |
| C2j2 | PANDA COUNTER STOOL- NO BACK | OAK (PREFERRED STOOL) | PANDA VENDOR | 22" H |
| C1d1 | PANDA DINING CHAIR W/ BACK | OAK | PANDA VENDOR | 18" H |

# OUTDOOR FURNITURE & ARCH. ELEMENTS

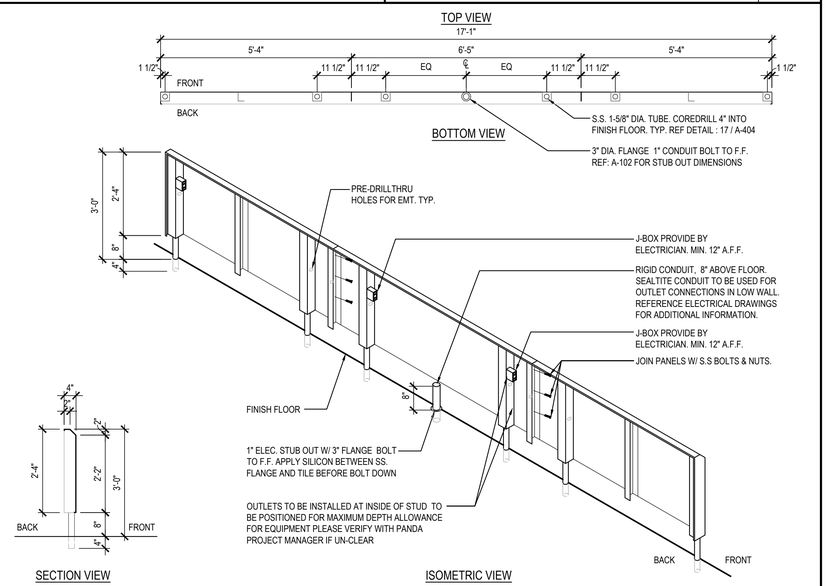
| | | | | |
|---|---|---|---|---|
| OC1 | OUTDOOR CHAIR | | PANDA VENDOR | 22-7/8" x 22-1/2"x 35-3/8" / (17-3/8" |
| OT1 | 4 TOP OUTDOOR TABLE | | PANDA VENDOR | 48" x 24"x 30" |
| OT2 | 4 TOP OUTDOOR TABLE (ADA) | | PANDA VENDOR | 48" x 24"x 30" |
| OT3 | 2 TOP OUTDOOR TABLE | | PANDA VENDOR | 24" x 24"x 30" |
| OW1 | OUTDOOR WASTE BIN | | PANDA VENDOR | 23" x 23-1/4" x 44-5/8" |
| OW2 | OUTDOOR WASTE BIN | ALUMINUM | PANDA VENDOR | 22-1/2" x 22-1/2" x 45" |
| F5a | UMBRELLA & BASE (7') | TOP: SUNBRELLA , CANVAS JOCKEY RED<br>POLE - ALUM. MARINE SATIN ANODIZED<br>BASE: 24" DIA. 75LB GALV. STEEL BASE | TUUCI | 7' HEX x 96" H |
| F5b | SINGLE POST PYRAMID UMBRELLA (12') | TOP: FABRIC TOP: PVC 302 FERRARI PRECONTRAINT<br>POLE - BLK. 5.0 GA TRD TUBING<br>BASE: 8" SQ. PLATE ON CONC. FOOTING. SEE DETAIL | USA SHADE | 12' SQ. x 10' 5-12/"H |

NOTE:
PANDA TEAM TO SELECT CHAIR PALLET WITH MANUFACTURER



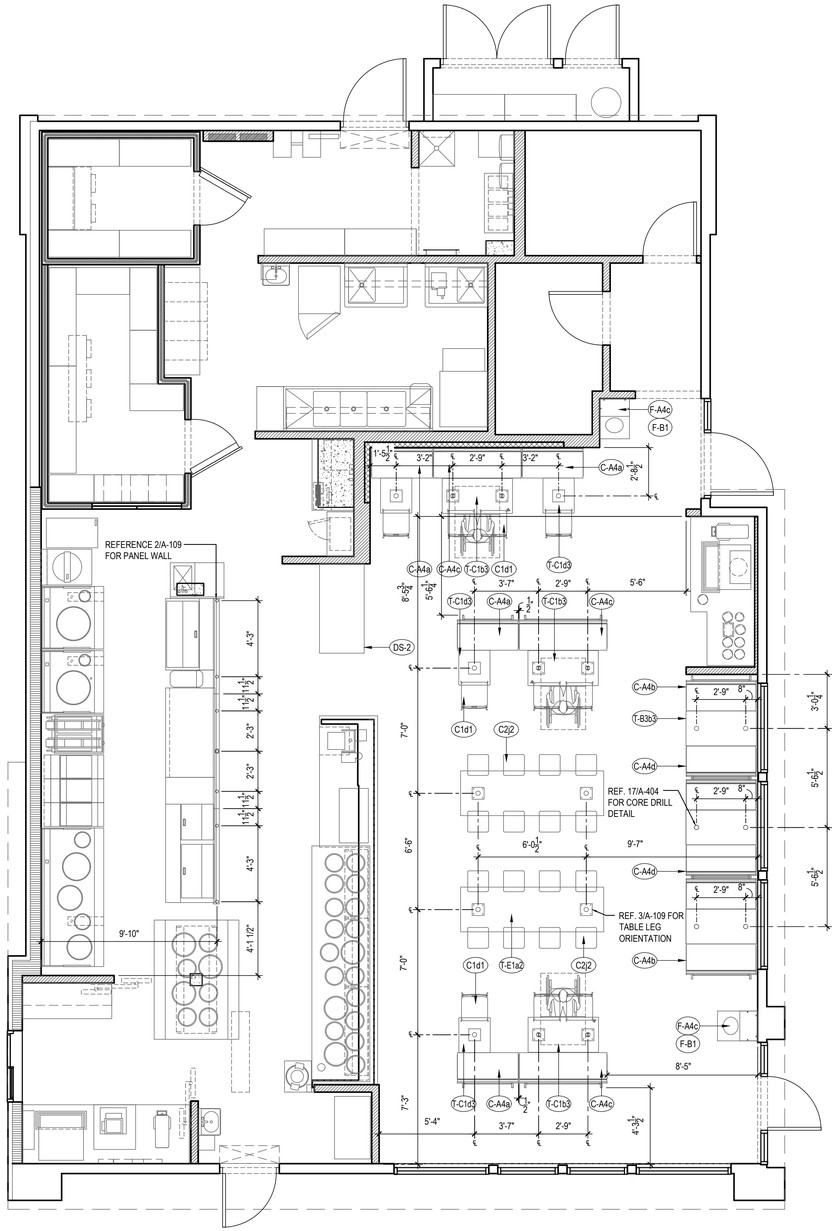

COMMUNITY TABLE ISOMETRIC 3

Scale= 3/4" = 1'-0" A-109




STAINLESS STEEL OUTLET PANEL 2

Scale= NTS A-109




NOTE:
DIMENSIONS ARE FROM INTERIOR WALL.

REFER TO VENDOR PACKET FOR ADDITIONAL FURNITURE INFORMATION.

FINAL CORE DRILL LOCATIONS FOR FURNITURE / EQUIPMENT SHALL BE VERIFIED WITH PANDA EXPRESS DESIGN MANAGER PRIOR TO DRILLING.

⚠ FURNITURE LOCATION PLAN 1

Scale= 1/4" = 1'-0" A-109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C&P PROJECT #: - 2210604


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ROBERT S DAY
CERTIFICATE NO. RA19215
REGISTERED ARCHITECT

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

A-109

FURNITURE PLAN

# EXTERIOR FINISH SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

01-11-19

| NO | MANUFACTURER | MFG# | COLOR | FINISH | NOTES |
|---|---|---|---|---|---|
| EIFS-1 | STO | STOTHERM ESSENCE SYSTEM | SW 6148 WOOL SKEIN | FINE | BUILDING BODY |
| EIFS-2 | STO | STOTHERM ESSENCE SYSTEM | SW 7067 CITYSCAPE | FINE | BUILDING BODY |
| EIFS-3 | STO | STOTHERM ESSENCE SYSTEM | SW 7069 IRON ORE | FINE | EIFS ACCENT BAND |
| ST-1S | CORONADO STONE PRODUCTS | 900 SERIES | #2 GREY | - | STONE CAP (3/8" VERTICAL JOINT - MORTAR TO MATCH STONE CAP) |
| ST-1 | CORONADO STONE PRODUCTS | INDUSTRIAL LEDGE | SHALE GREY | - | ENTRY PORTAL & WAINSCOT CONTACT: LISA KILGORE: 864-962-1221 PROVIDE 3/8" MORTAR JOINTS. MFG.: ARGOS, COLOR: CHARCOAL |
| CD-1 | FIBERON | WILDWOOD | MULGA | 60% MATERIAL COVERAGE - RANDOM MIX (NON-GROOVE) | COMPOSITE DECKING - CONTACT: ERIC ATKINS @ 770-910-0930 EMAIL: Eric.Atkins@fiberondecking.com |
| CD-2 | FIBERON | WILDWOOD | SUMAC | 40% MATERIAL COVERAGE - RANDOM MIX (NON-GROOVE) | COMPOSITE DECKING - CONTACT: ERIC ATKINS @ 770-910-0930 EMAIL: Eric.Atkins@fiberondecking.com |
| MTL-1 | EXCEPTIONAL METALS | - | "PANDA EXPRESS IRON ORE" | | CAP FLASHING |

# WINDOW SCHEDULE

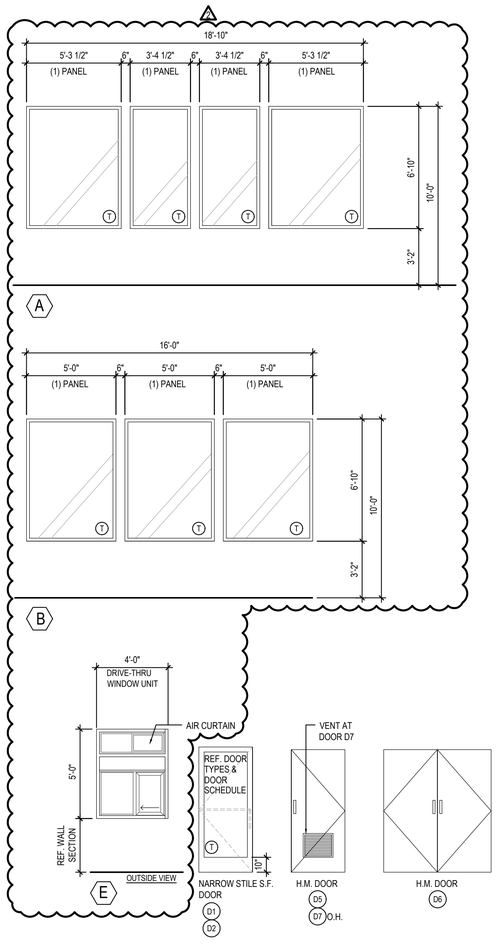
INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

| SYM | WIDTH | HEIGHT | GLASS | FRAME | REMARKS |
|---|---|---|---|---|---|
| A | 18'-10" LIN. FEET | 6'-10" | 1" INSULATED GLASS | DARK BRONZE ALUMINUM STOREFRONT | 1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME REFER WINDOW TYPES FOR INDIVIDUAL SIZES |
| B | 16'-0" LIN. FEET | 6'-10" | 1" INSULATED GLASS | DARK BRONZE ALUMINUM STOREFRONT | 1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME REFER WINDOW TYPES FOR INDIVIDUAL SIZES |
| C | 6'-10" | 8'-2" | 1" INSULATED GLASS | DARK BRONZE ALUMINUM STOREFRONT | 1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME |
| D | 5'-7" | 10'-0" | 1" INSULATED GLASS | DARK BRONZE ALUMINUM STOREFRONT | 1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME |
| E | 4'-0" | 59.5" | TEMPERED GLASS | DARK BRONZE ANODIZED ALUMINUM | QUIK-SERV HEATED AIR CURTAIN, ROUGH OPENING 48" X 60" SEE ADDITIONAL NOTE # 5. CONTACT: WADE ARNOLD, 800-388-8307 |
| | | | | | |
| | | | | | |

NOTES

1. INSULATING GLASS VITRO ARCHITECTURAL GLAZING SOLARBAN 60 LOW E: WINTER U=0.29 SHGC: 0.25 VIS TRANS: 35%
2. DOORS: FULL GLAZED DOORS W/10" KICK BASE, ANODIZED ALUM FINISH. REFER HARDWARE SCHEDULE.
3. WINDOW DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. G.C. TO VERIFY ACTUAL WINDOW DIMENSIONS PRIOR TO FABRICATION INSTALLATION.
4. GLASS FACADE AND ENTRY DOORS TO BE DESIGNED, DETAILED, FACTORY FABRICATED AND SITE ASSEMBLED AND ERECTED.
5. MANUFACTURER: QUIK-SERV, MODEL SST-4860E WITH THRU-BEAM PHOTO-ELECTRIC BAR. REGIONAL APPLICATION WITH CF-25 NON HEATED AIR CURTAIN OR CHF-25 HEATED AIR CURTAIN. TYPE OF AIR CURTAIN LISTED ON WINDOW SCHEDULE.
6. WINDOW SYSTEM SHALL COMPLY WITH APPLICABLE SECTION AND CHAPTER OF BUILDING CODE.

(T) TEMPERED GLASS

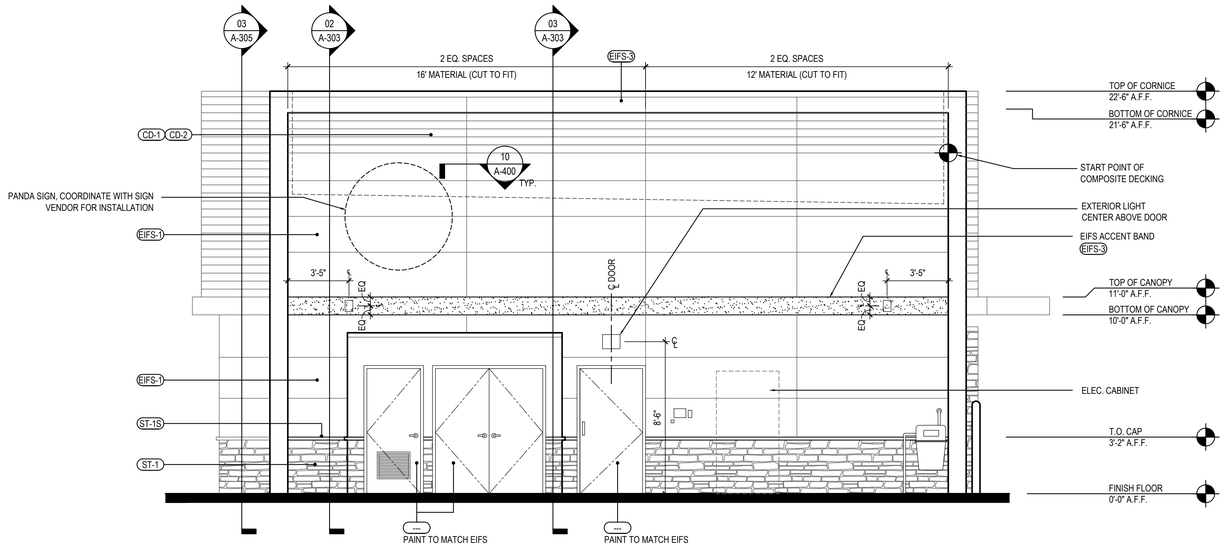



# WINDOW AND DOOR ELEVATIONS

Scale= NTS

3

A-200

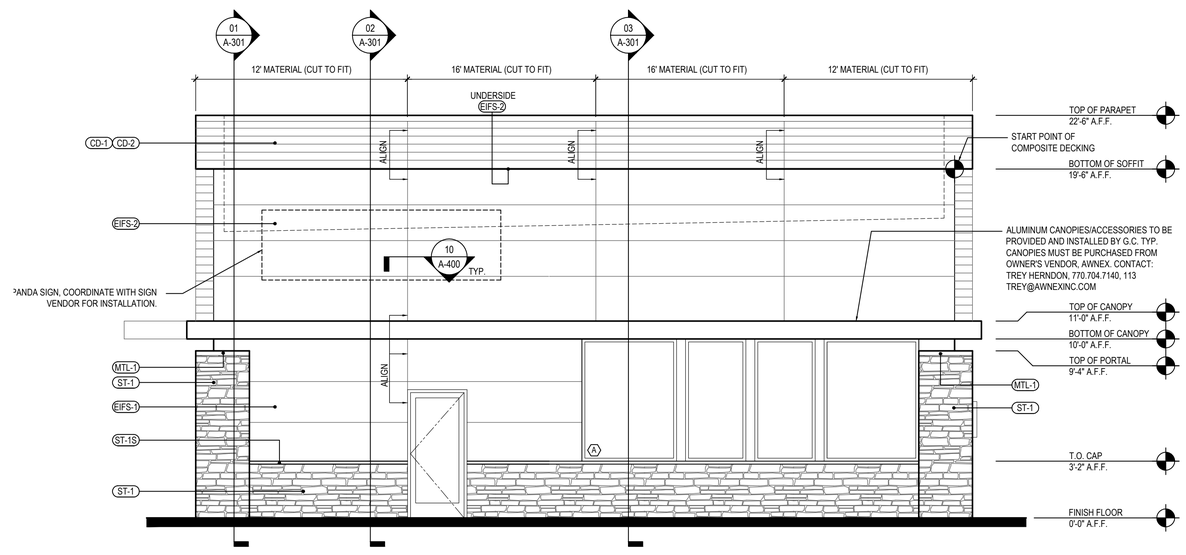



# NORTH ELEVATION

Scale= 1/4" = 1'-0"

2

A-200




# SOUTH ELEVATION

Scale= 1/4" = 1'-0"

1

A-200

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C&P PROJECT #: - 2210604


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ROBERT S DAY
CERTIFICATE NO. RA19272
REGISTERED ARCHITECT

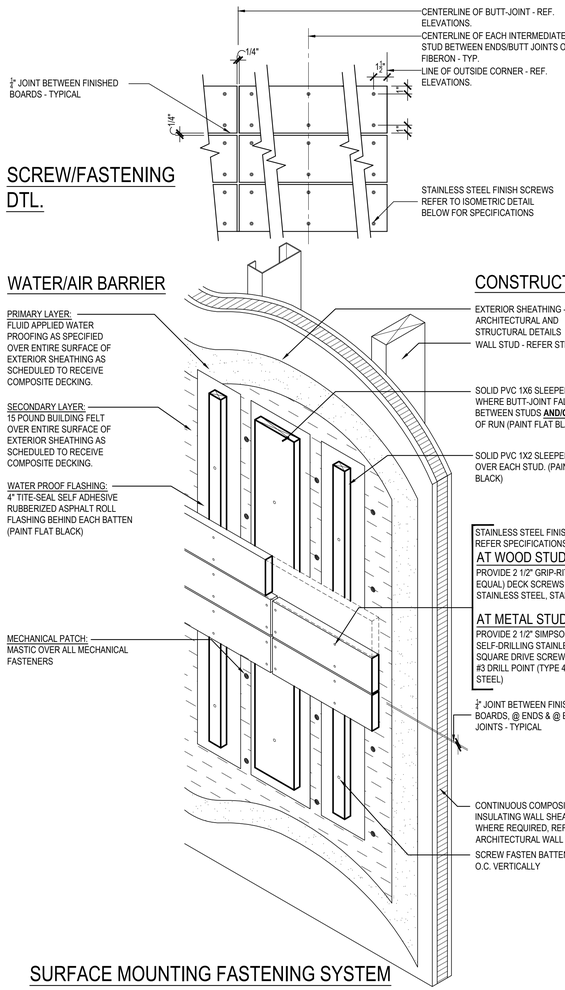
PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

A-200

EXTERIOR ELEVATIONS (VESTIBULE)

TRUE WARM & WELCOME 2300 R6




## SCREW/FASTENING DTL.

## WATER/AIR BARRIER

PRIMARY LAYER:
FLUID APPLIED WATER PROOFING AS SPECIFIED OVER ENTIRE SURFACE OF EXTERIOR SHEATHING AS SCHEDULED TO RECEIVE COMPOSITE DECKING.

SECONDARY LAYER:
15 POUND BUILDING FELT OVER ENTIRE SURFACE OF EXTERIOR SHEATHING AS SCHEDULED TO RECEIVE COMPOSITE DECKING.

WATER PROOF FLASHING:
4" TITE-SEAL SELF ADHESIVE RUBBERIZED ASPHALT ROLL FLASHING BEHIND EACH BATTEN (PAINT FLAT BLACK)

MECHANICAL PATCH:
MASTIC OVER ALL MECHANICAL FASTENERS

## CONSTRUCTION

- EXTERIOR SHEATHING - REF. ARCHITECTURAL AND STRUCTURAL DETAILS
- WALL STUD - REFER STRUCTURAL
- SOLID PVC 1X6 SLEEPER/BATTEN WHERE BUTT-JOINT FALLS BETWEEN STUDS **AND/OR** AT END OF RUN (PAINT FLAT BLACK)
- SOLID PVC 1X2 SLEEPER/BATTEN OVER EACH STUD. (PAINT FLAT BLACK)
- STAINLESS STEEL FINISH SCREWS REFER SPECIFICATIONS BELOW

### AT WOOD STUDS:
PROVIDE 2 1/2" GRIP-RITE (OR EQUAL) DECK SCREWS - STAINLESS STEEL, STAR DRIVE

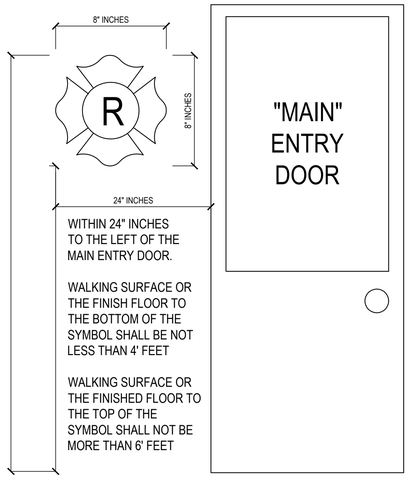
### AT METAL STUDS:
PROVIDE 2 1/2" SIMPSON BUGLE HEAD SELF-DRILLING STAINLESS STEEL - #2 SQUARE DRIVE SCREWS WITH #3 DRILL POINT (TYPE 410 STAINLESS STEEL)

- ¼" JOINT BETWEEN FINISHED BOARDS, @ ENDS & @ BUTT JOINTS - TYPICAL
- CONTINUOUS COMPOSITE INSULATING WALL SHEATHING WHERE REQUIRED, REF. TO ARCHITECTURAL WALL SECTIONS
- SCREW FASTEN BATTENS@16" O.C. VERTICALLY

SURFACE MOUNTING FASTENING SYSTEM

## COMPOSITE DECK FASTENING & WATER PROOFING DTLS | 3

Scale= 1 1/2" = 1'-0" | A-201



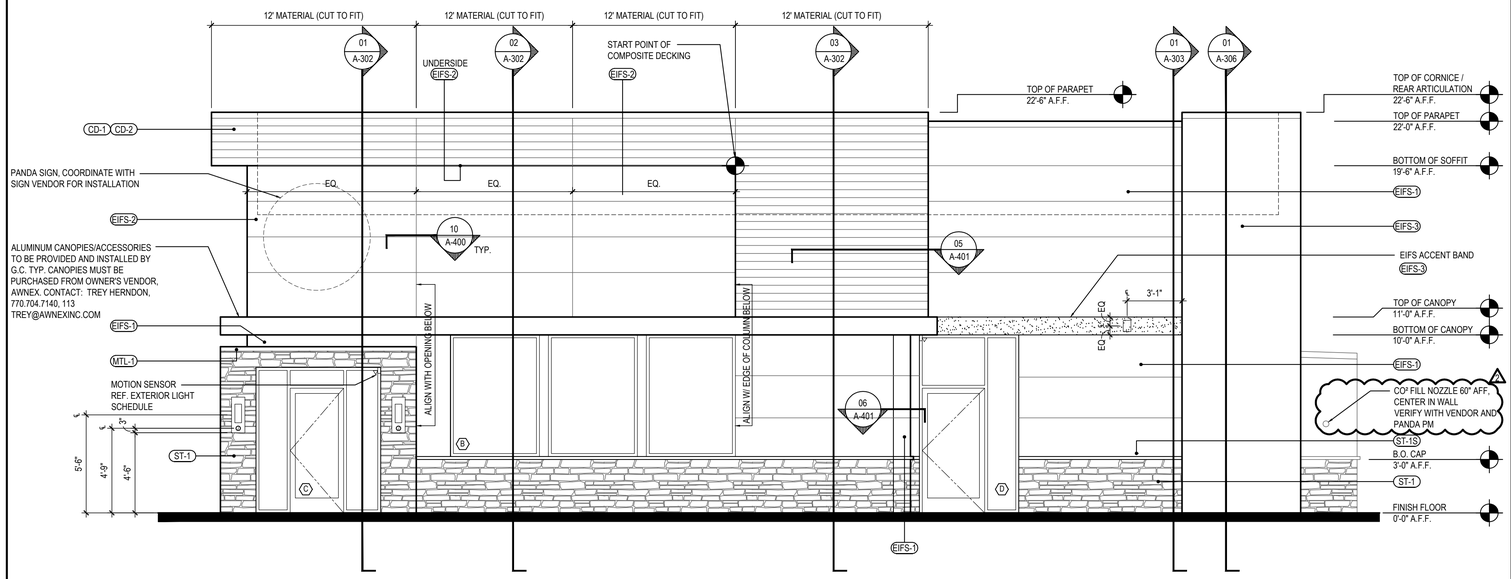

WITHIN 24" INCHES TO THE LEFT OF THE MAIN ENTRY DOOR.

WALKING SURFACE OR THE FINISH FLOOR TO THE BOTTOM OF THE SYMBOL SHALL BE NOT LESS THAN 4' FEET

WALKING SURFACE OR THE FINISHED FLOOR TO THE TOP OF THE SYMBOL SHALL NOT BE MORE THAN 6' FEET

## FIREFIGHTER SAFETY WARNING SIGN | 4

Scale= NTS | A-201

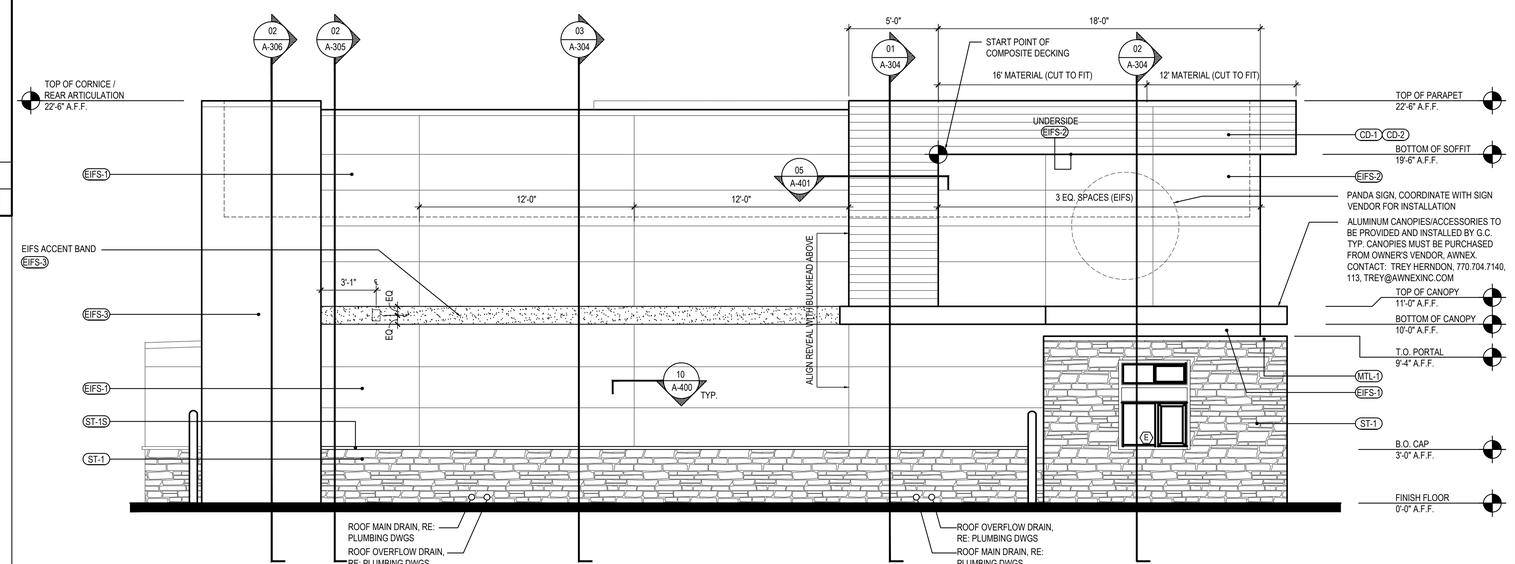



NOTE:
LENGTH OF EAST ELEVATION: 60.7'
65% ELEVATION LENGTH: 39.4
TOTAL STOREFRONT AREA: 296 SQFT

*SEE SHEET A-200 FOR EXTERIOR FINISH SCHEDULE

## EAST ELEVATION 2

Scale= 1/4" = 1'-0" | A-201




*SEE SHEET A-200 FOR EXTERIOR FINISH SCHEDULE

## WEST ELEVATION | 1

Scale= 1/4" = 1'-0" | A-201

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91770
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ROBERT S DAY
CERTIFICATE NO. PA15012
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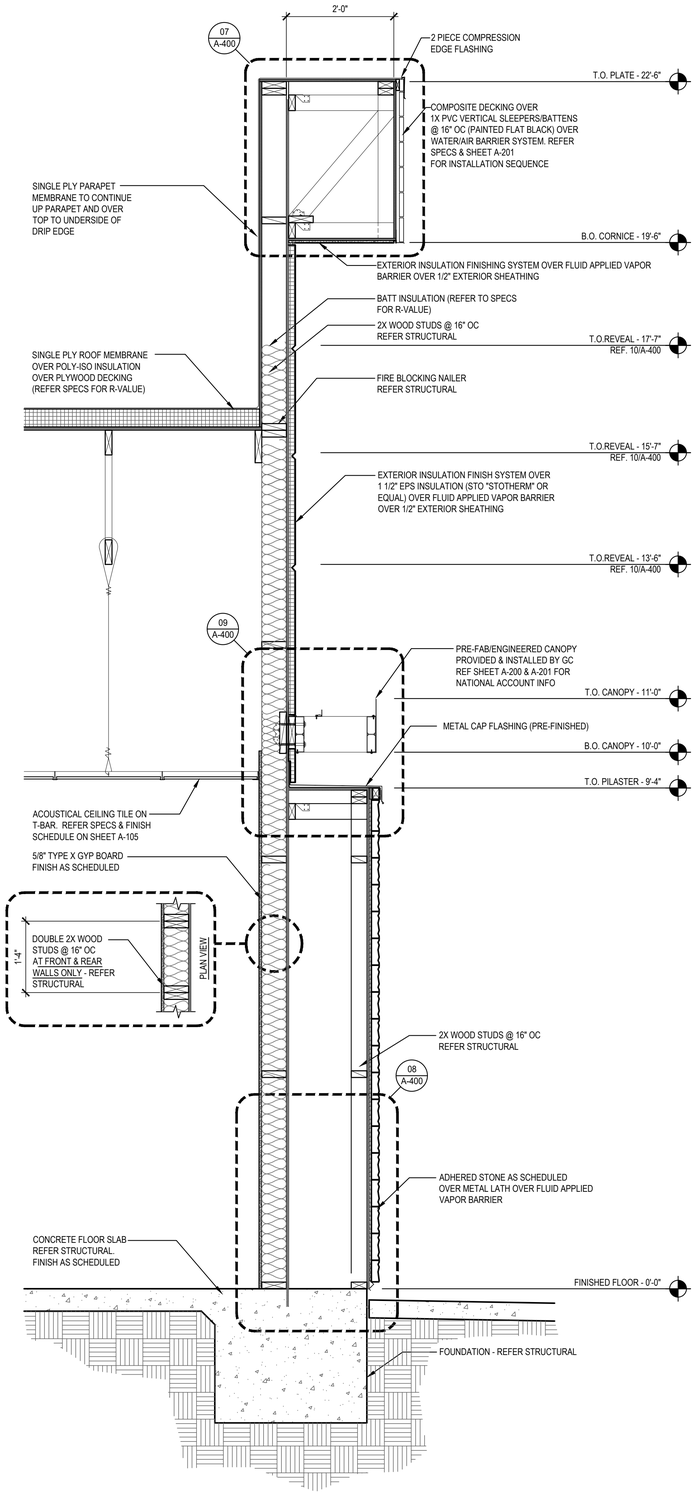
# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

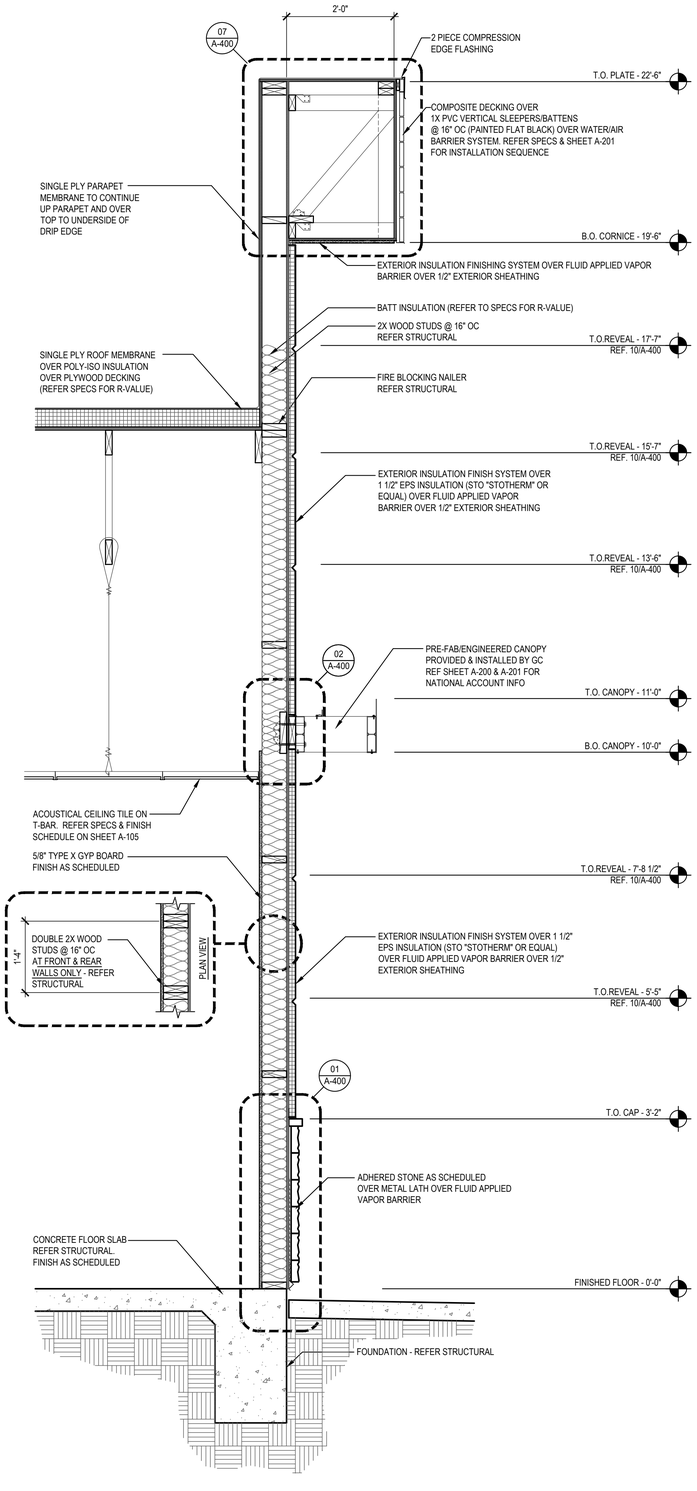
# A-201

EXTERIOR ELEVATIONS

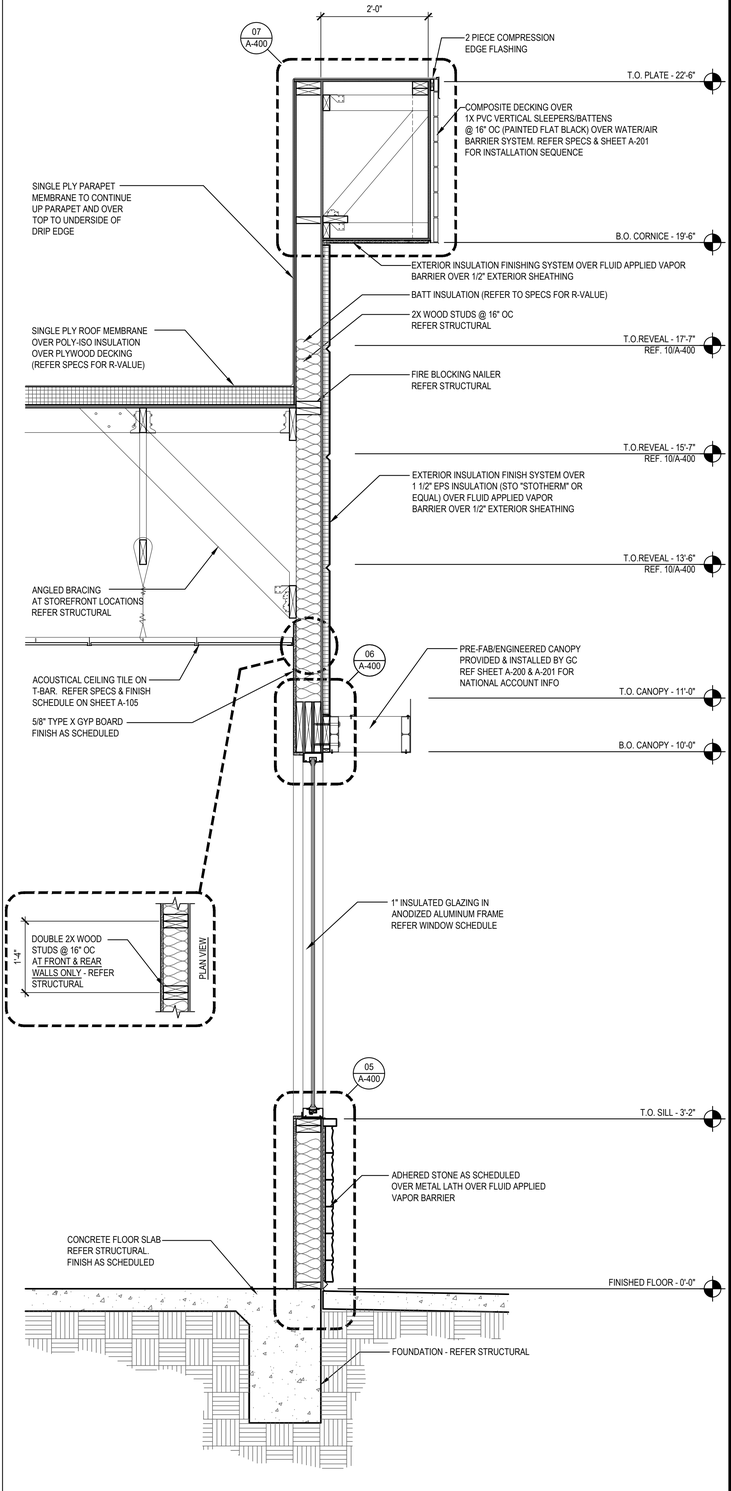
TRUE WARM & WELCOME 2300 R6




SECTION 1
Scale= 3/4" = 1'-0" A-301




SECTION 2
Scale= 3/4" = 1'-0" A-301




SECTION 3
Scale= 3/4" = 1'-0" A-301

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P (407) 661-9100
F (407) 661-9101
www.cpa.com
Florida Corporate Certificate #AA C000526

02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA15012
REGISTERED ARCHITECT

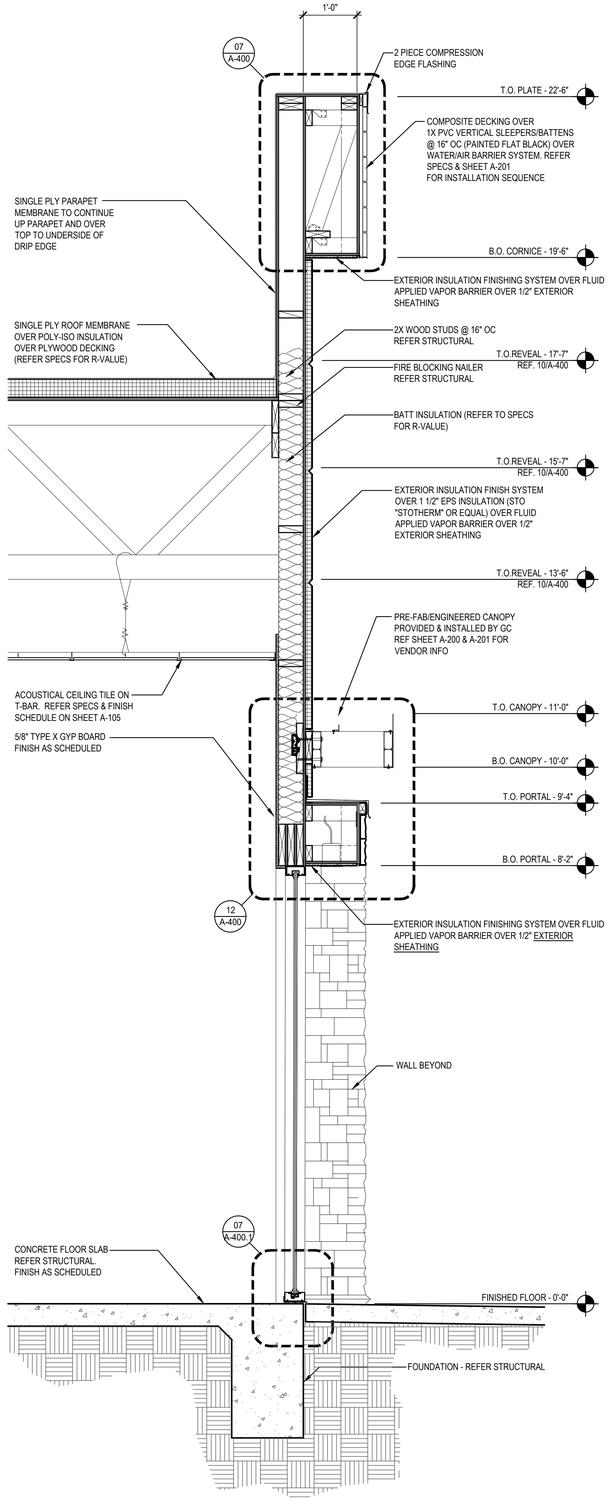
# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-301

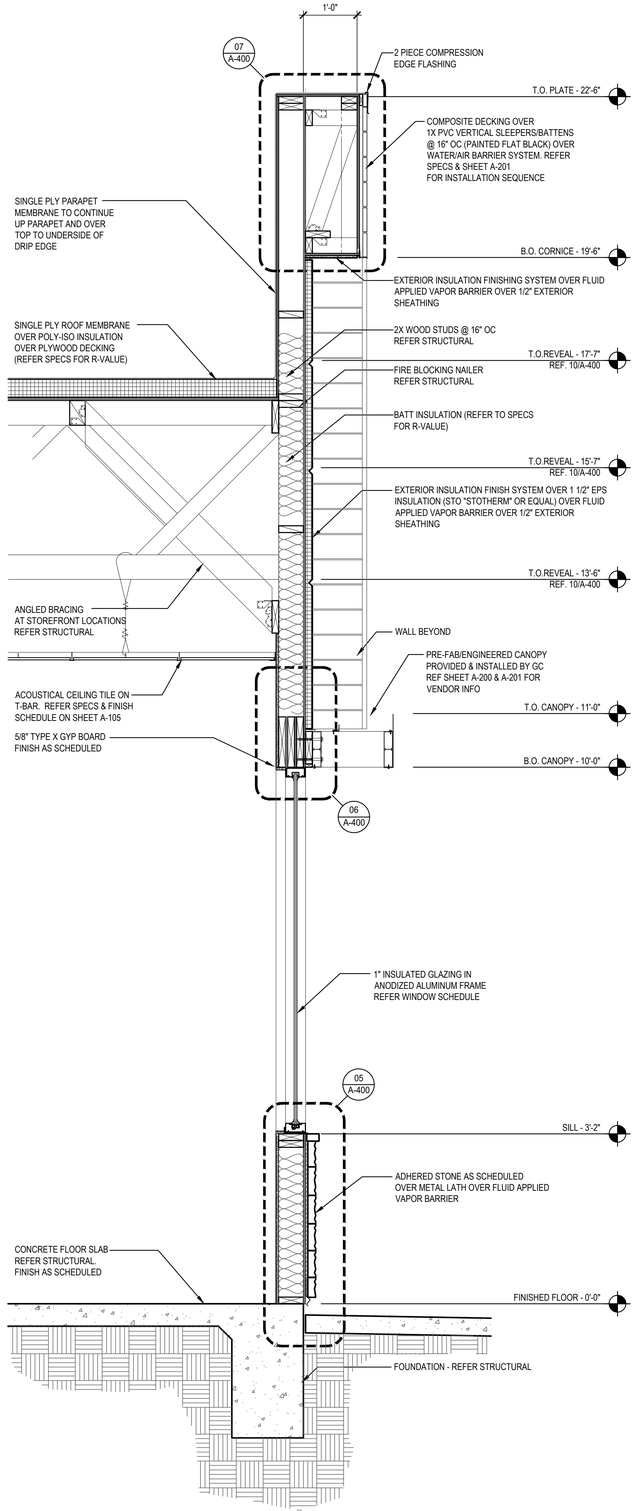
WALL SECTIONS

TRUE WARM & WELCOME 2300 R6



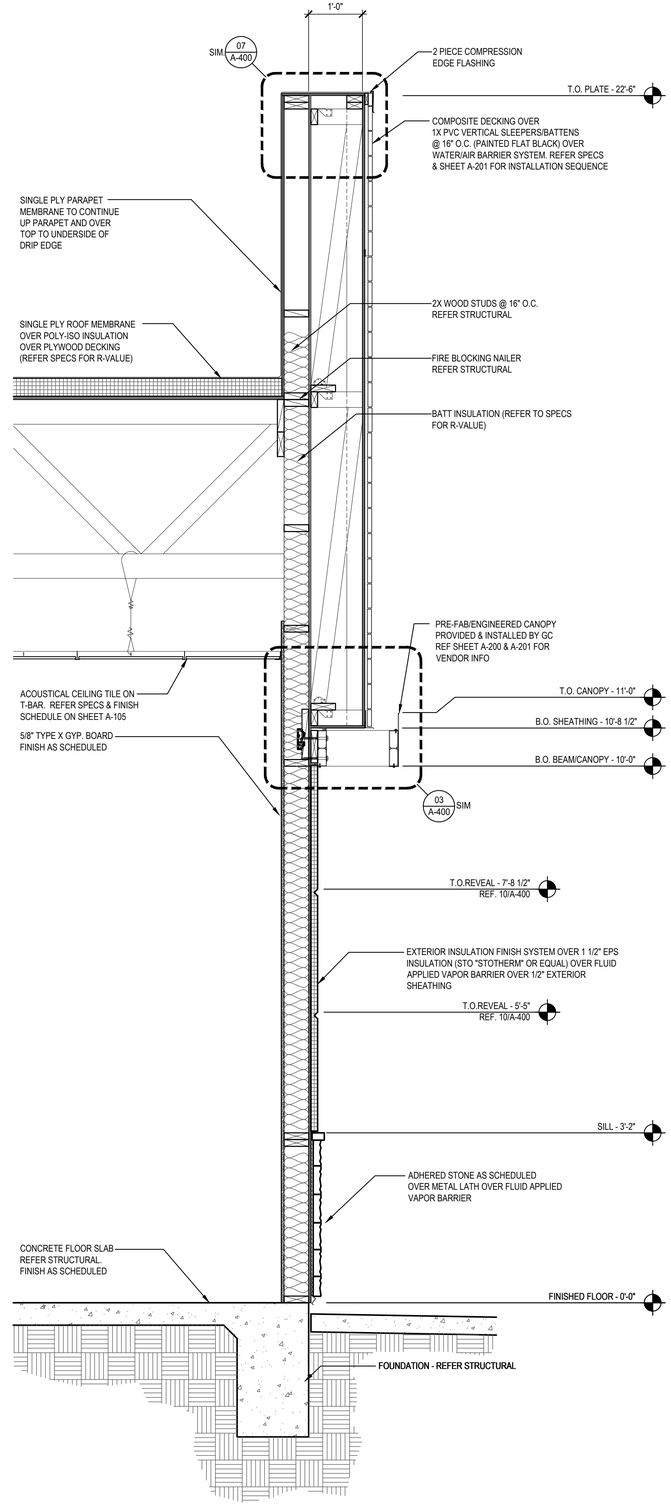

SECTION 1

Scale= 3/4" = 1'-0" A-302




SECTION 2

Scale= 3/4" = 1'-0" A-302




SECTION 3

Scale= 3/4" = 1'-0" A-302

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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Architects Engineers Planners
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02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. PA015212
REGISTERED ARCHITECT

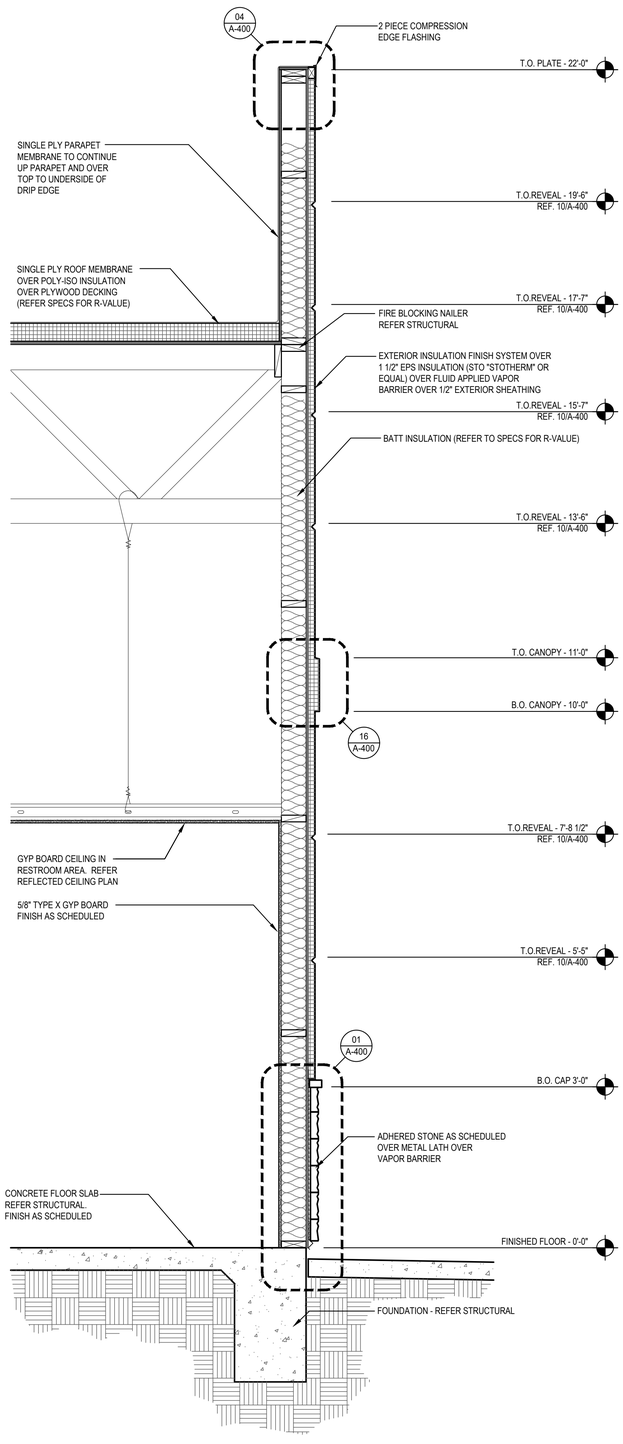
# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-302

WALL SECTIONS

TRUE WARM & WELCOME 2300 R6

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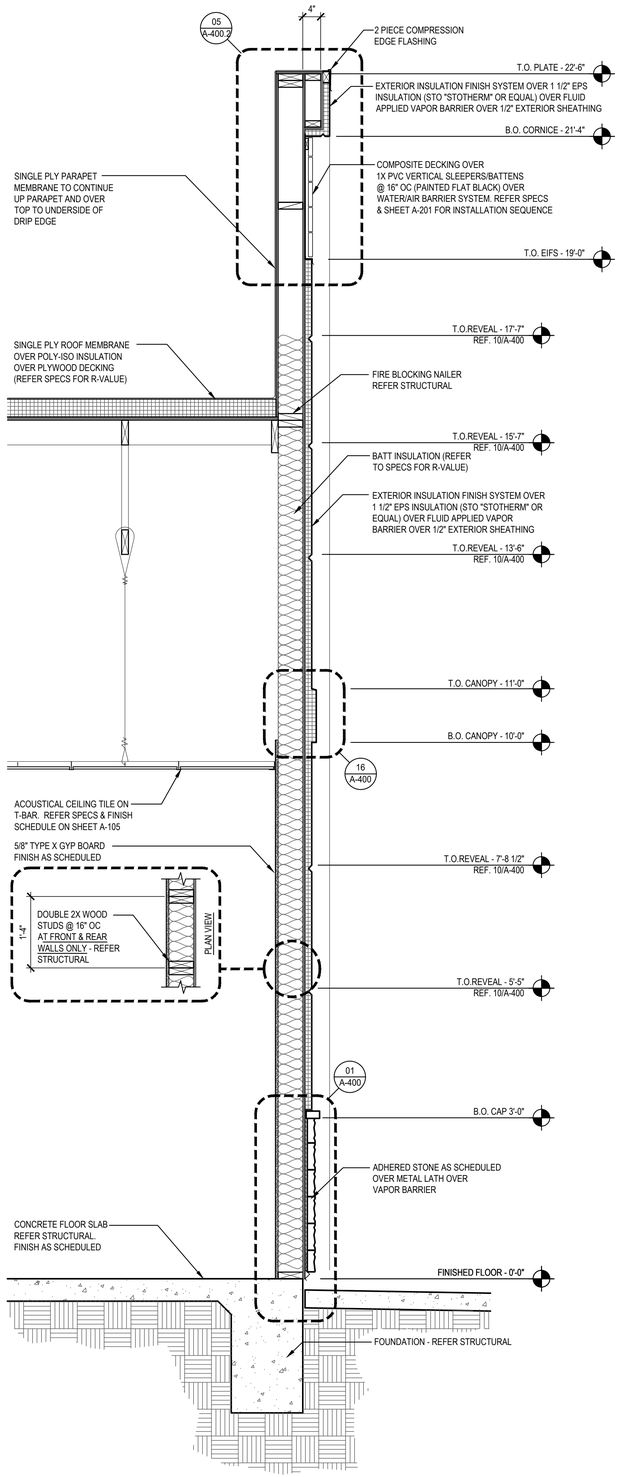
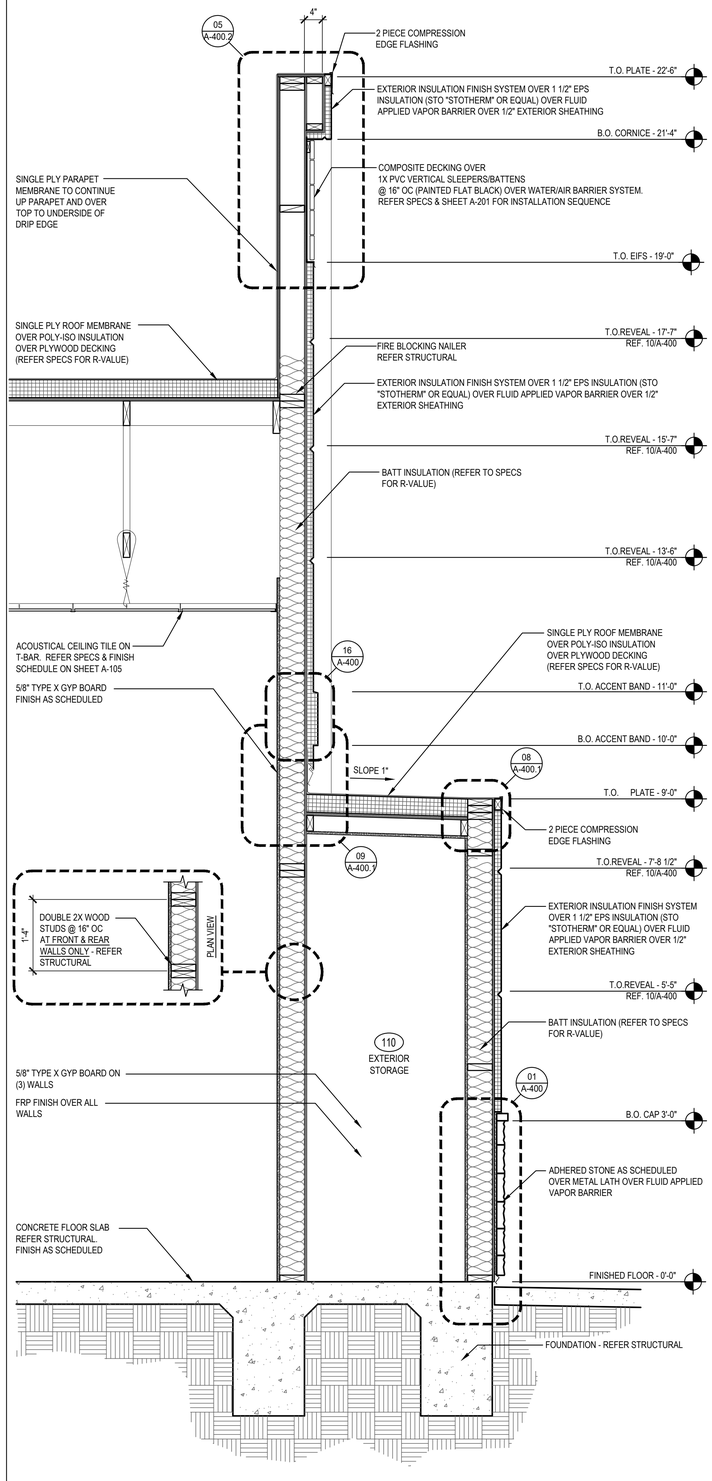



SECTION 2
Scale= 3/4" = 1'-0" A-303




SECTION 3
Scale= 3/4" = 1'-0" A-303

PANDA EXPRESS
CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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C&P PROJECT #: - 2210604

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02.08.2022

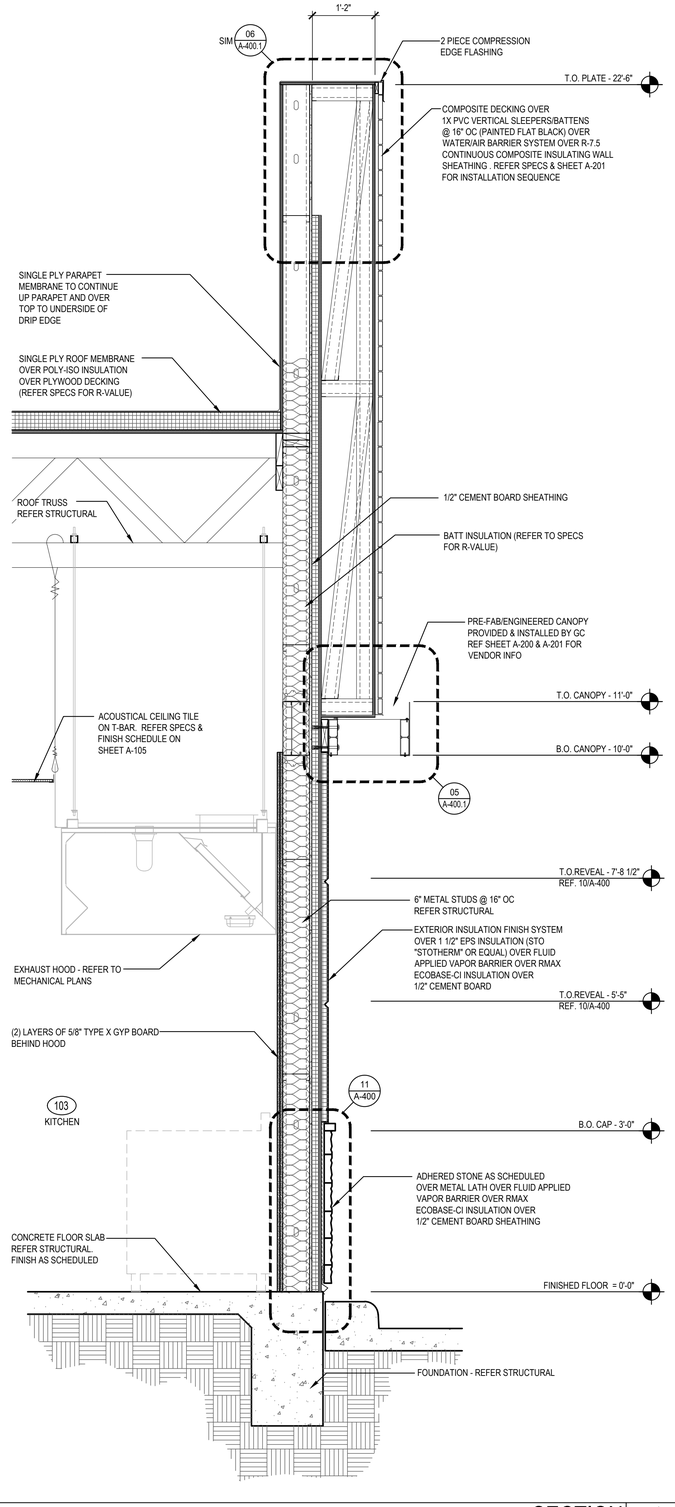
STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA15267
REGISTERED ARCHITECT

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-303

WALL SECTIONS




SECTION 1
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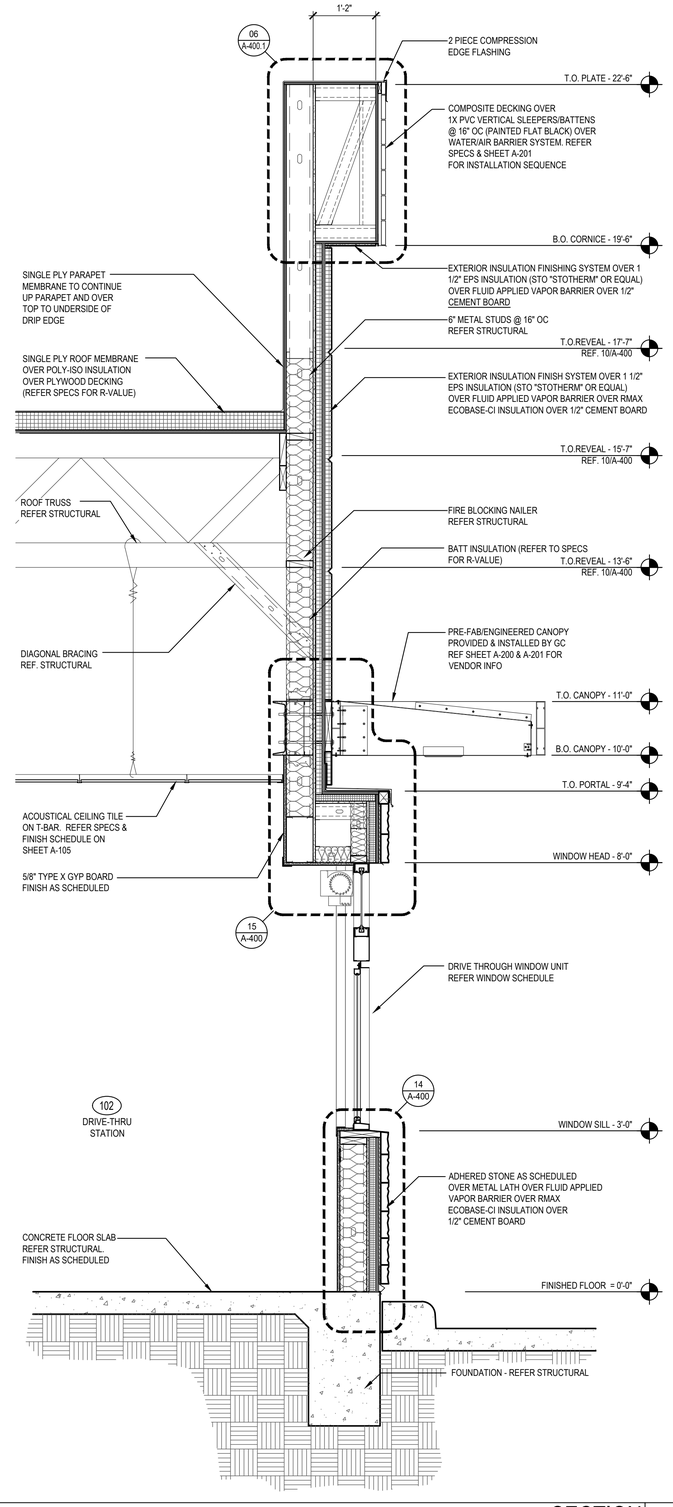


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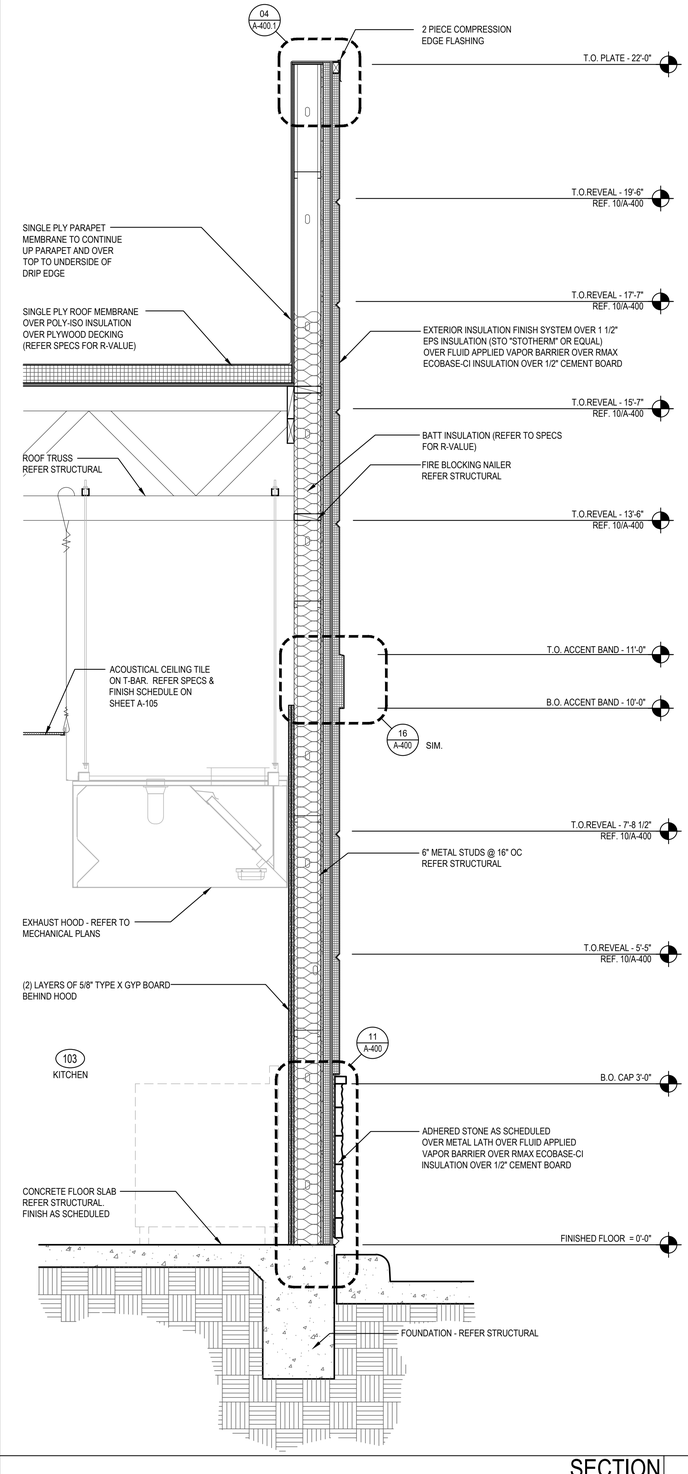


SECTION 3
Scale= 3/4" = 1'-0" A-304

PANDA RESTAURANT GROUP INC.
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Telephone: 626.799.9898
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C&P PROJECT #: - 2210604

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02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. PA015212
REGISTERED ARCHITECT

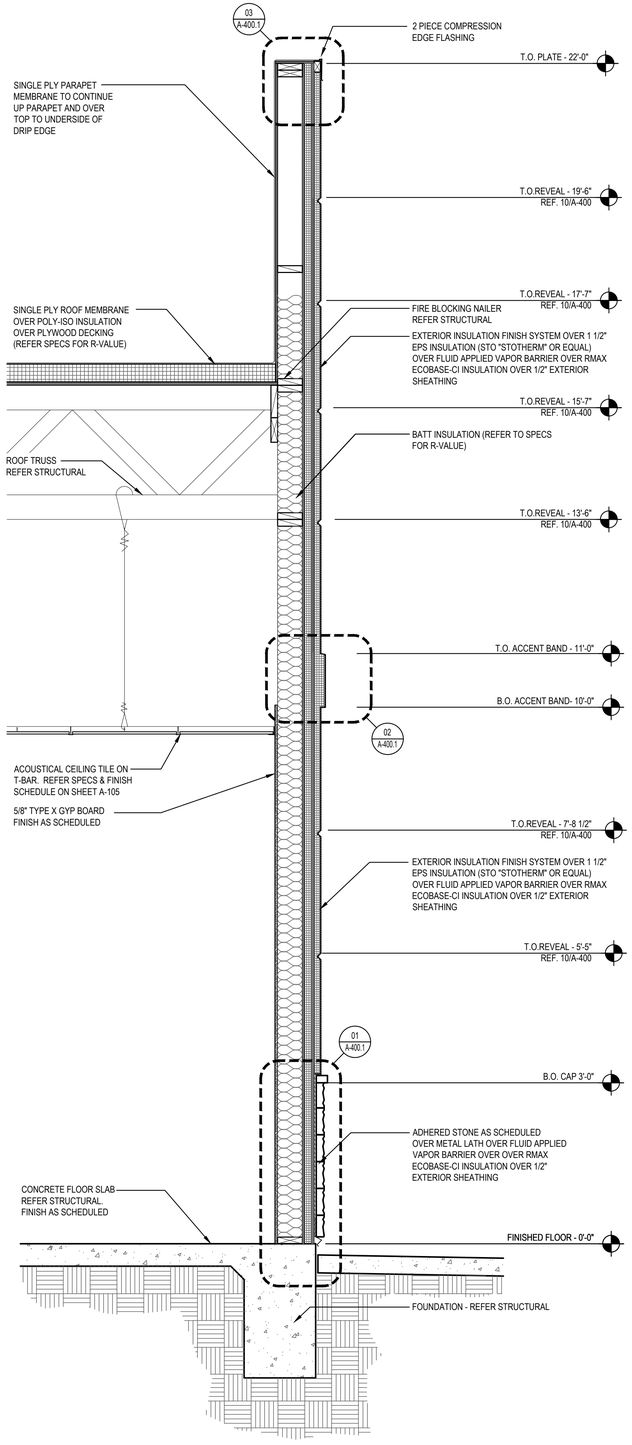
# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-304

WALL SECTIONS

TRUE WARM & WELCOME 2300 R6

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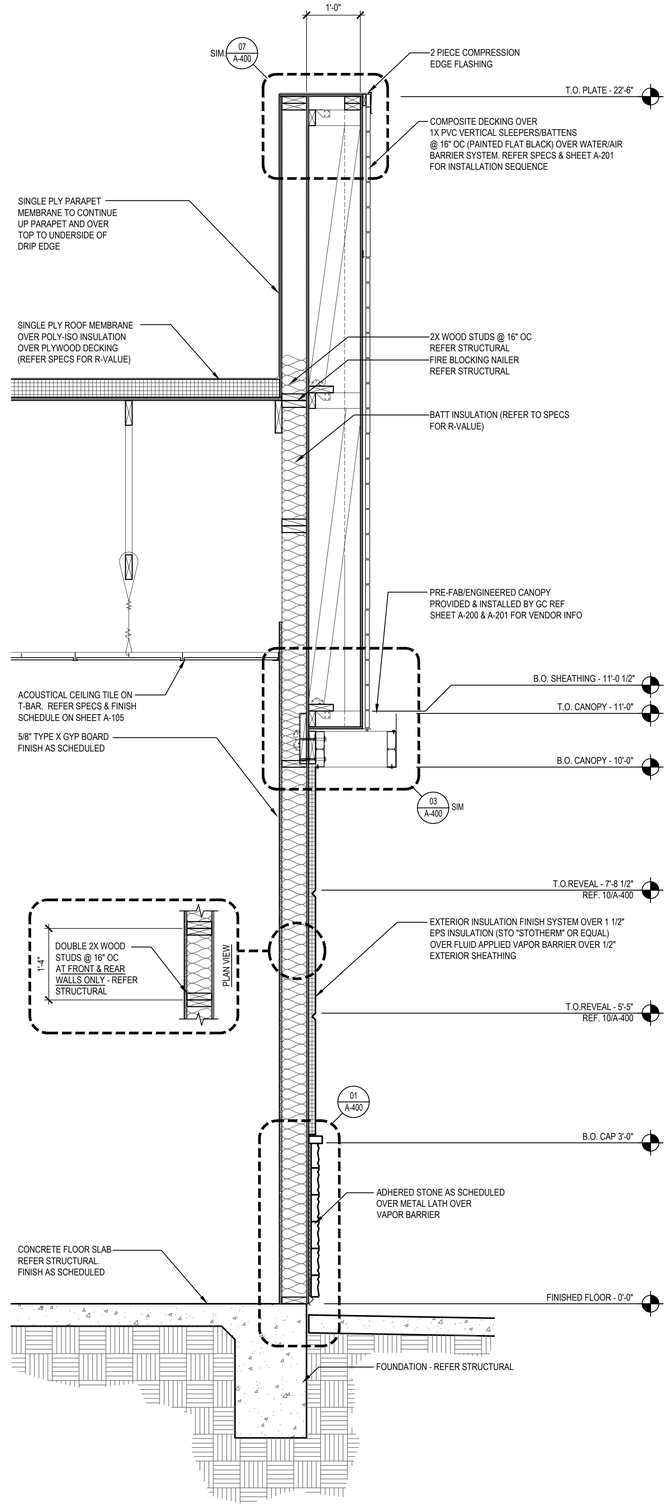


SECTION 3
Scale= 3/4" = 1'-0" A-305

NOT USED
Scale= 3/4" = 1'-0" A-305

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C&P PROJECT #: - 2210604

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02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA15257
REGISTERED ARCHITECT

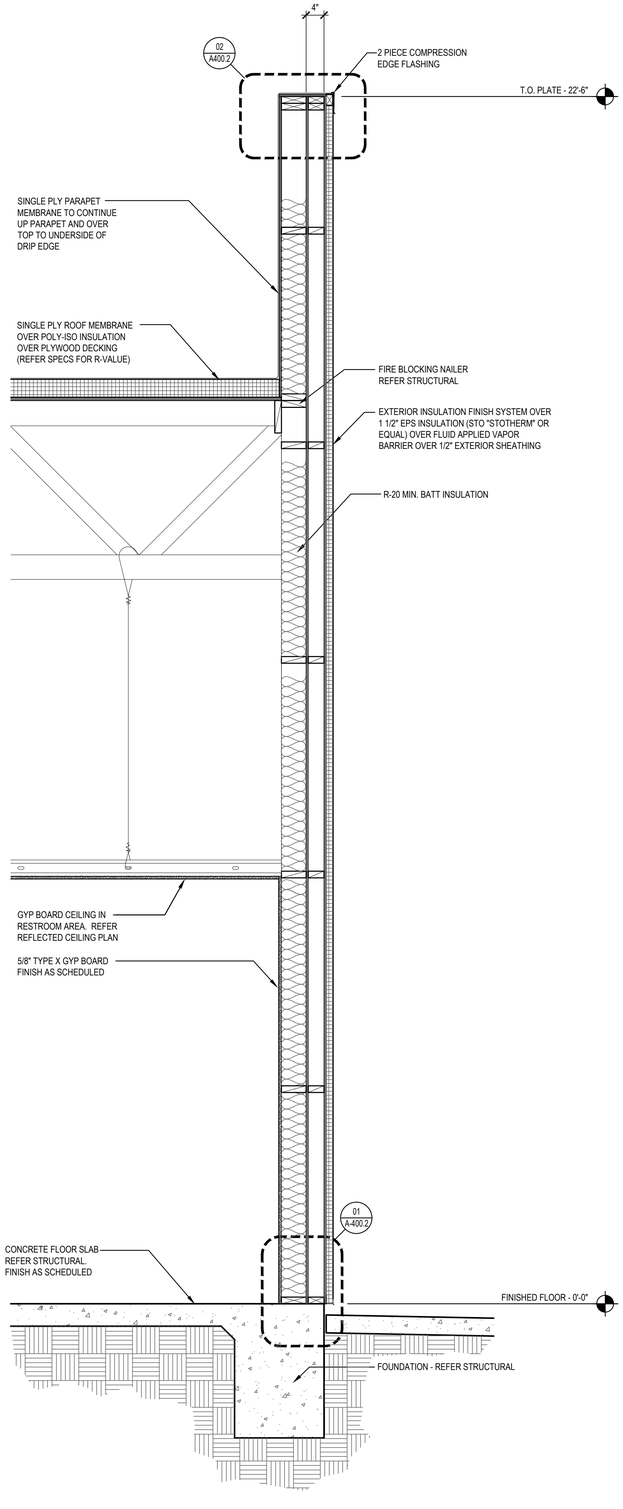
PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-305

WALL SECTIONS

TRUE WARM & WELCOME 2300 R6

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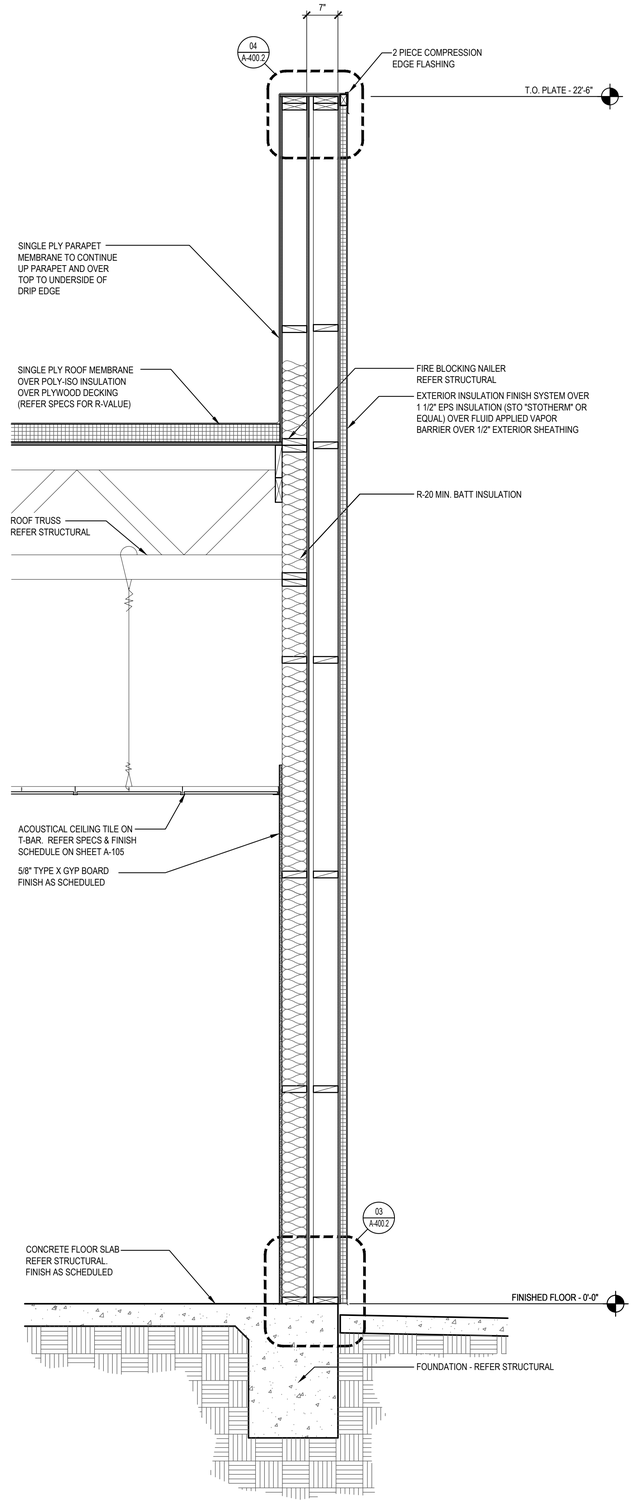


SECTION 2
Scale= 3/4" = 1'-0" A-306

NOT USED 3
Scale= 3/4" = 1'-0" A-306

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
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Rosemead, California
91770
Telephone: 626.799.9898
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C&P PROJECT #: - 2210604

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02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. PA015012
REGISTERED ARCHITECT

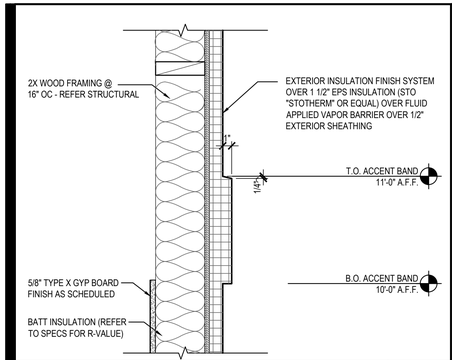
# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-306

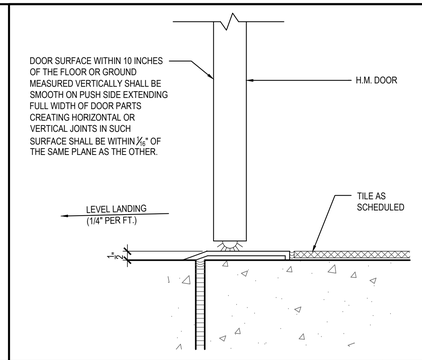
WALL SECTIONS

TRUE WARM & WELCOME 2300 R6



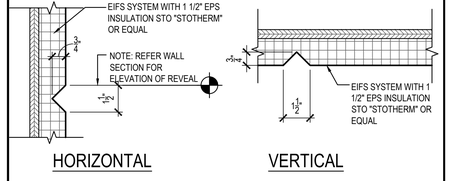

## EIFS ACCENT BAND DETAIL 16

Scale= 1 1/2" = 1'-0" A-400




## DOOR SILL DETAIL 13

Scale= 3" = 1'-0" A-400




## EIFS AESTHETIC REVEAL JOINT 10

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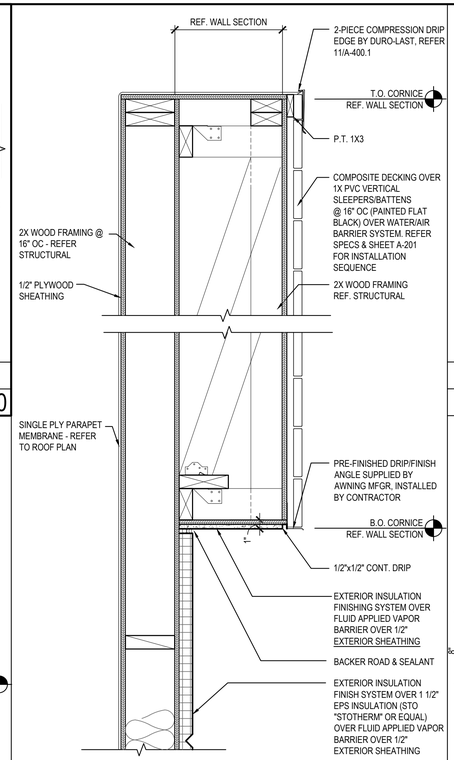


## PARAPET/CORNICE DETAIL 07

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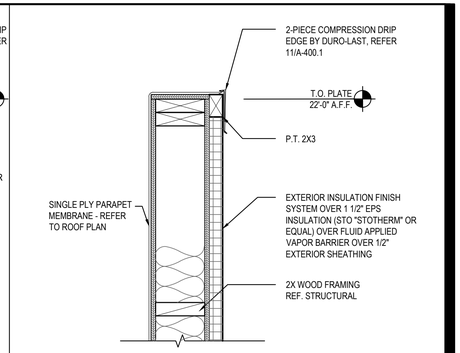


## PARAPET DETAIL 04

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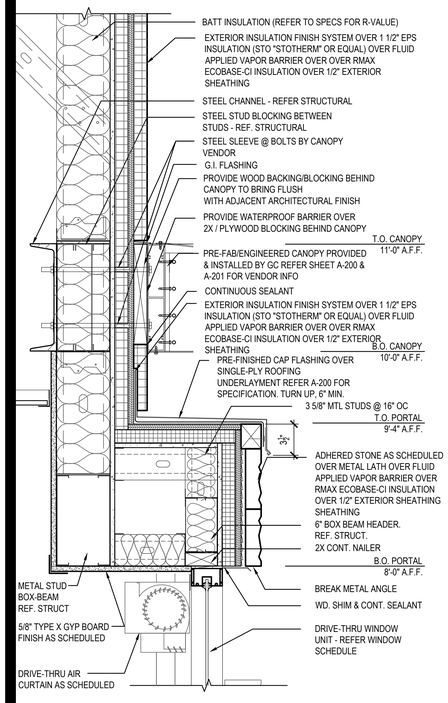
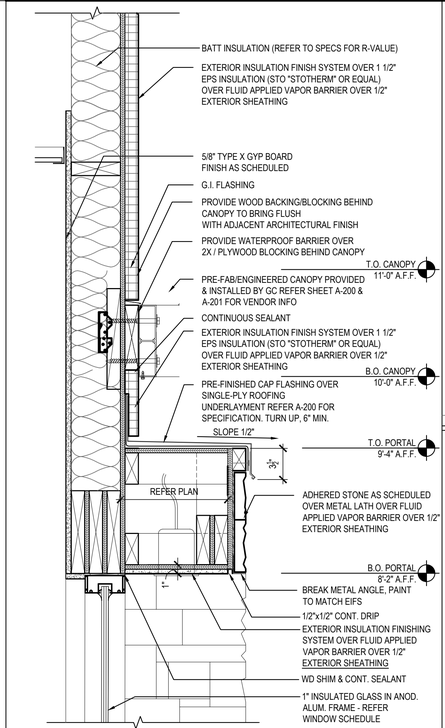



## DRIVE-THRU HEAD DETAIL 15

Scale= 1 1/2" = 1'-0" A-400




## PORTAL DETAIL 12

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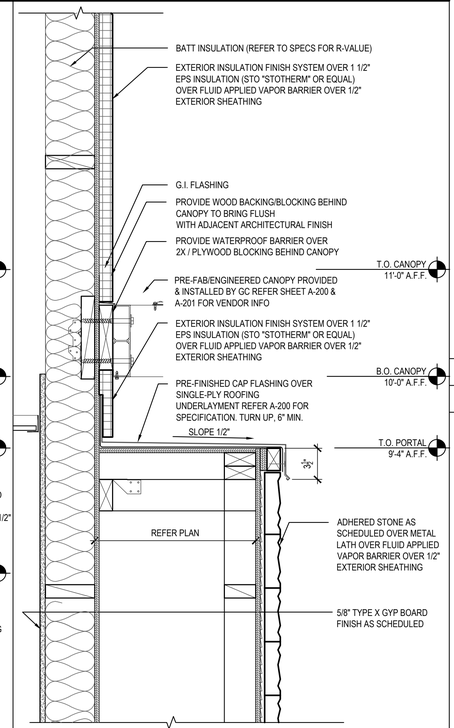


## PILASTER DETAIL 09

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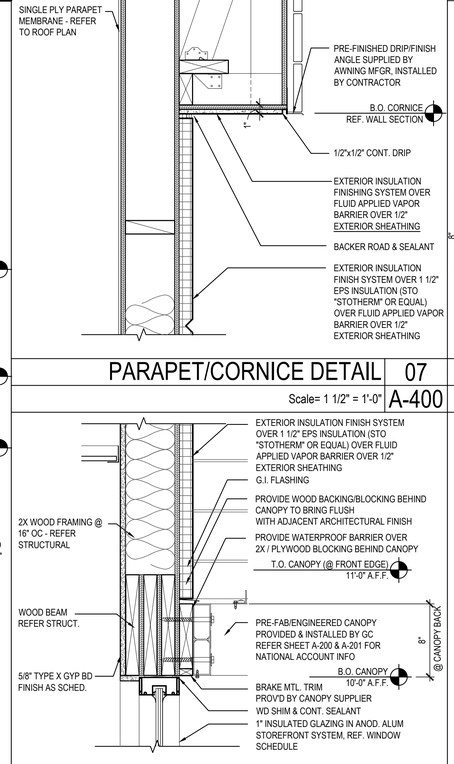
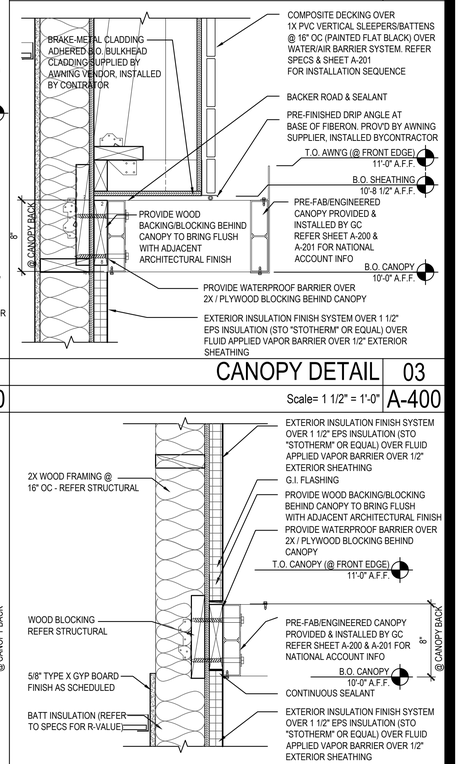



## HEAD/CANOPY DETAIL 06

Scale= 1 1/2" = 1'-0" A-400



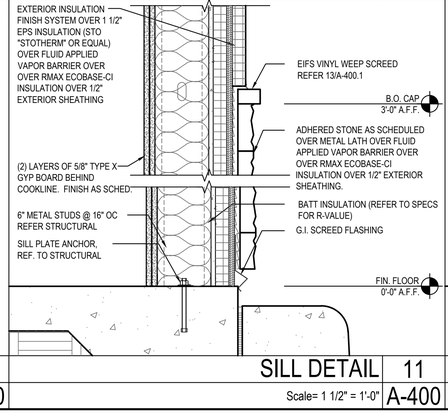

## CANOPY DETAIL 03

Scale= 1 1/2" = 1'-0" A-400




## SILL DETAIL 14

Scale= 1 1/2" = 1'-0" A-400




## SILL DETAIL 11

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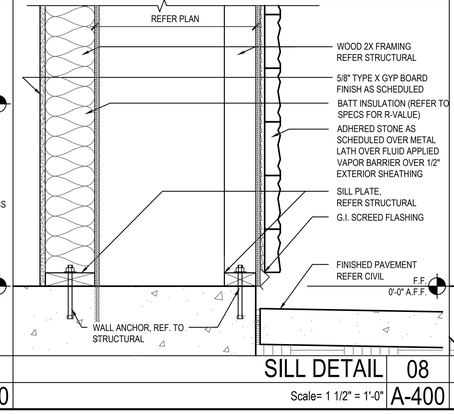


## SILL DETAIL 08

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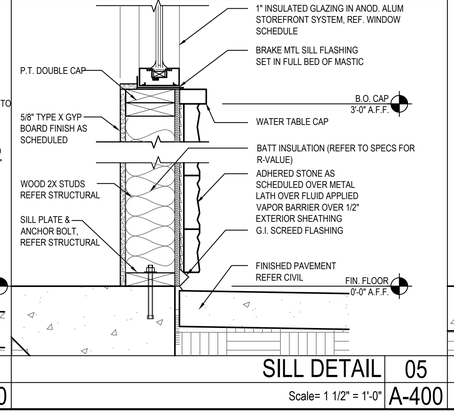


## SILL DETAIL 05

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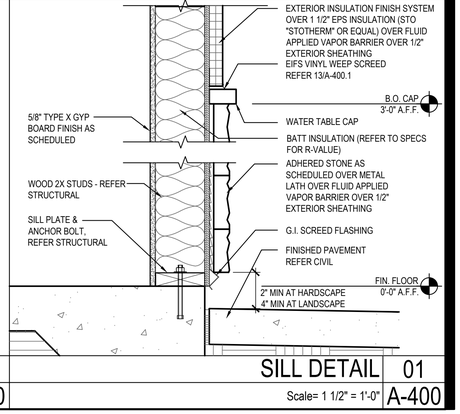


## SILL DETAIL 01

Scale= 1 1/2" = 1'-0" A-400

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C&P PROJECT #: - 2210604

Cuhaci & Peterson
Architects Engineers Planners
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Florida Corporate Certificate #AA C000526

02.08.2022

ROBERT S DAY
CERTIFICATE NO. PA15212
STATE OF GEORGIA
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-400

ARCHITECTURAL DETAILS

TRUE WARM & WELCOME 2300 R6

2014

# Exterior Insulated Finishes

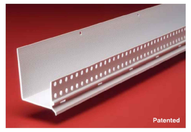
Section: 07240

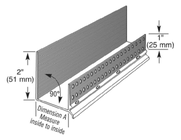
## i DRIP TRAC®

| Product Number | *Dimension A | Pieces Per Box |
|---|---|---|
| iDT-50 | 1/2" (13 mm) | 35 |
| iDT-58 | 5/8" (16 mm) | 35 |
| iDT-75 | 3/4" (19 mm) | 30 |
| iDT-1 | 1" (25 mm) | 25 |
| iDT-125 | 1-1/4" (31 mm) | 20 |
| iDT-15 | 1-1/2" (34 mm) | 20 |
| iDT-175 | 1-3/4" (38 mm) | 15 |
| iDT-2 | 2" (51 mm) | 15 |
| iDT-225 | 2-1/4" (57 mm) | 15 |
| iDT-25 | 2-1/2" (64 mm) | 15 |
| iDT-275 | 2-3/4" (70 mm) | 10 |
| iDT-3 | 3" (76 mm) | 10 |
| iDT-35 | 3-1/2" (89 mm) | 10 |
| iDT-4 | 4" (102 mm) | 10 |

10' (3 m) Lengths

*Dimension "A"– measure inside to inside




Warnock Hersey

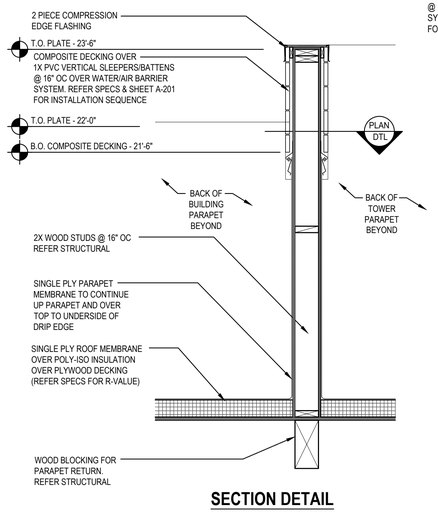
PLASTIC PC COMPONENTS Inc.
D-6

The base coat mesh should be lapped over the top of the perforated flanges and across all butt joints.

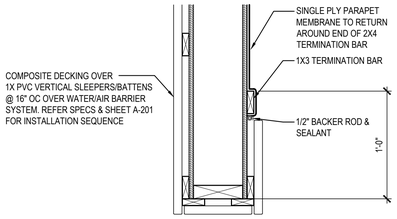
800.327.7077 • Fax 305.887.2452
www.plasticomponents.com

NOT USED 14
Scale= 1 1/2" = 1'-0" A-400.1

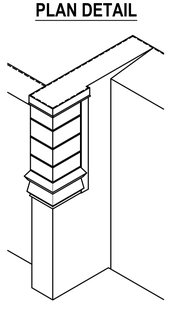
EIFS WEEP SCREED SPEC/DETAIL 13
Scale= 1 1/2" = 1'-0" A-400.1




SECTION DETAIL

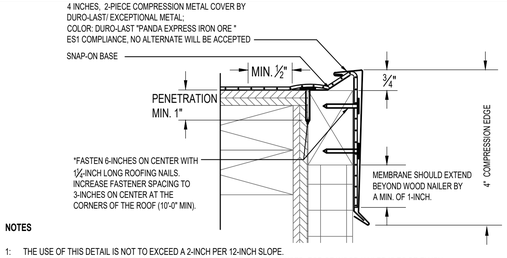



PLAN DETAIL



ISOMETRIC VIEW

SECTION 12
Scale= 3/4" = 1'-0" A-400.1

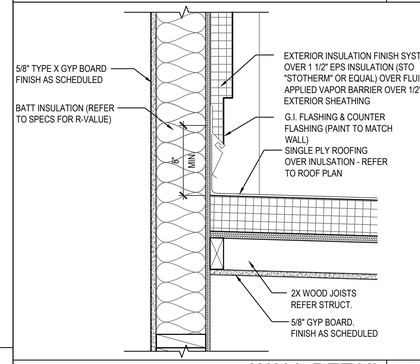



**NOTES**

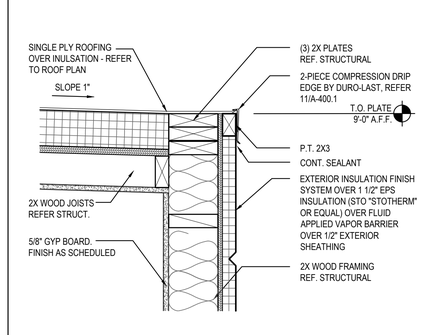
1: THE USE OF THIS DETAIL IS NOT TO EXCEED A 2-INCH PER 12-INCH SLOPE.
2: A WOOD NAILER IS REQUIRED IF ONE OR MORE INCHES OF INSULATION IS USED. TOP OF WOOD NAILER IS TO BE FLUSH WITH TOP OF INSULATION. BE SURE THAT THE WOOD NAILER EXTENDS AT LEAST ½-INCH BEYOND THE HORIZONTAL EDGE OF THE SNAP-ON BASE.
3: THE FASTENERS USED TO ATTACH THE BASE TO WOOD NAILERS, AND THE MEMBRANE TO THE FACE OF THE NAILERS, MUST BE SPACED NO GREATER THAN 6-INCHES ON-CENTER. THE FASTENER SPACING MUST BE INCREASED TO 3-INCHES ON-CENTER WHEN ATTACHING THE BASE WITHIN 10-FEET (MIN.) OF THE OUTSIDE CORNERS OF THE BUILDING.
4: ALLOW FOR ¼-INCH EXPANSION GAP BETWEEN 10-FOOT LENGTHS OF SNAP-ON BASE. OVERLAP THE SNAP-ON COVERS BY 2-INCHES BETWEEN 10-FOOT LENGTHS.

4-INCH HIGH, 2-PIECE COMPRESSION EDGE 11
NTS A-400.1

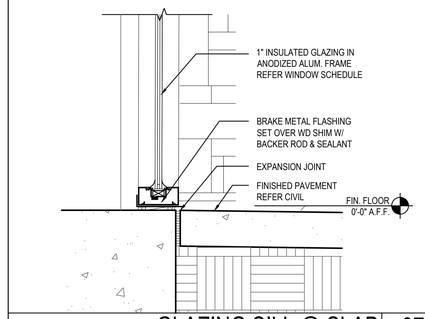
NOT USED 10
Scale= 1 1/2" = 1'-0" A-400.1



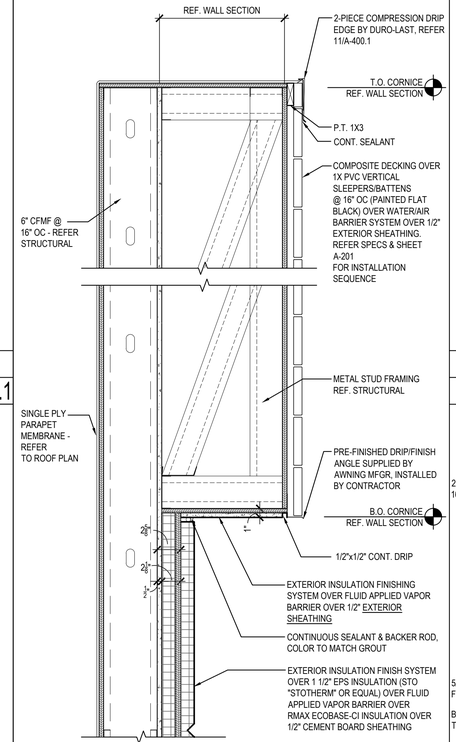

WALL DETAIL 09
Scale= 1 1/2" = 1'-0" A-400.1



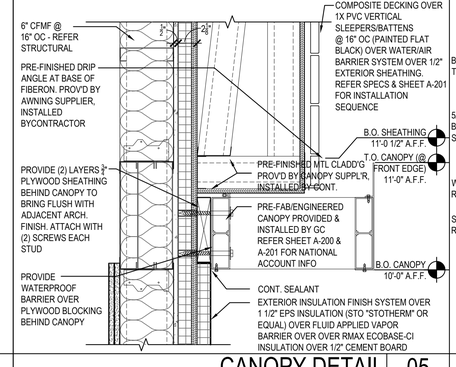

PARAPET DETAIL 08
Scale= 1 1/2" = 1'-0" A-400.1




GLAZING SILL @ SLAB 07
Scale= 1 1/2" = 1'-0" A-400.1




PARAPET/CORNICE DETAIL 06
Scale= 1 1/2" = 1'-0" A-400.1




CANOPY DETAIL 05
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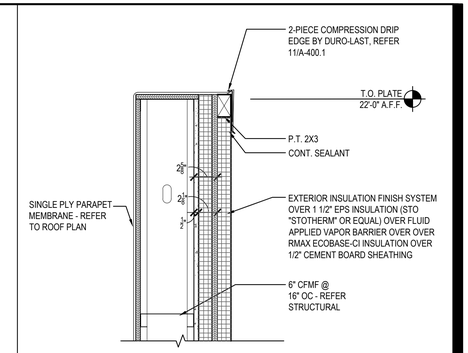


PARAPET DETAIL 04
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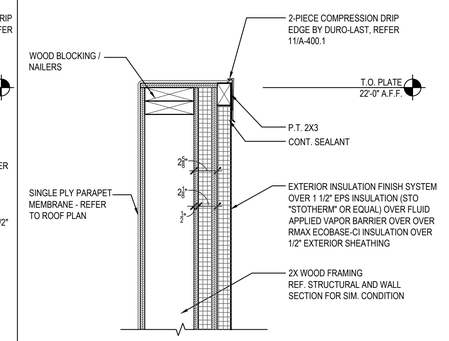


PARAPET DETAIL 03
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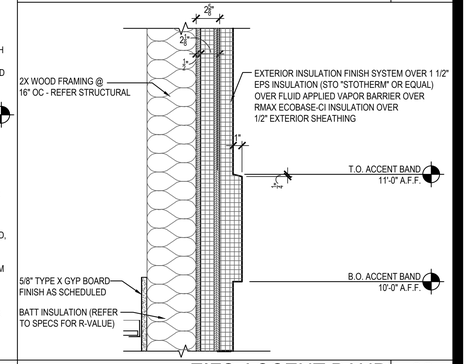


EIFS ACCENT BAND 02
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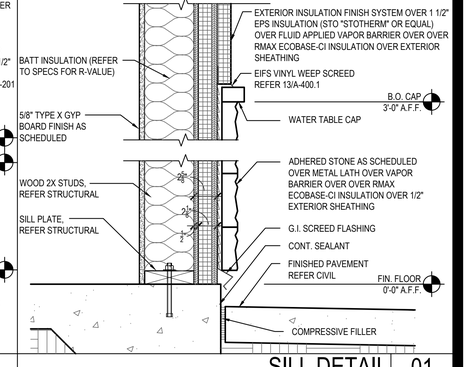


SILL DETAIL 01
Scale= 1 1/2" = 1'-0" A-400.1


PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
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Facsimile: 626.372.8288



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| 1 | 09.01.2021 ISSUE FOR PERMIT |
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DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


Cuhaci & Peterson Architects Engineers Planners
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www.cpae.com
Florida Corporate Certificate #AA C000526


02.08.2022

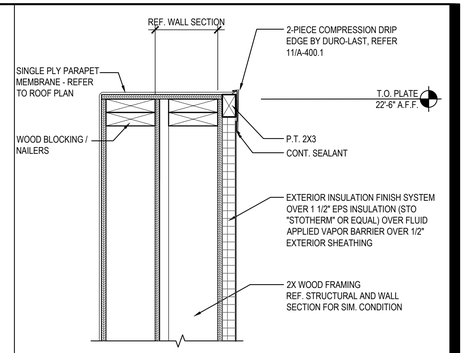
STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. PA15212
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-400.1

ARCHITECTURAL DETAILS

TRUE WARM & WELCOME 2300 R6




PARAPET DETAIL 04

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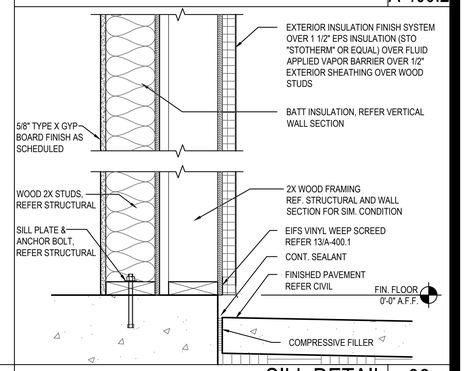
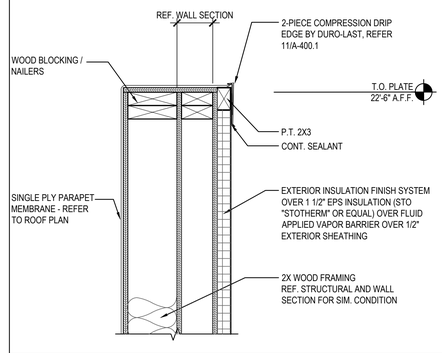



SILL DETAIL 03

Scale= 1 1/2" = 1'-0" A-400.2

NOT USED 06

Scale= 1 1/2" = 1'-0" A-400.2




PARAPET DETAIL 02

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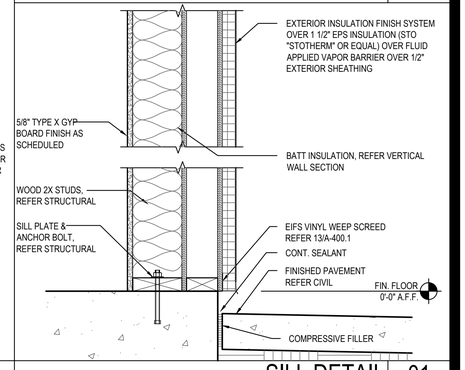
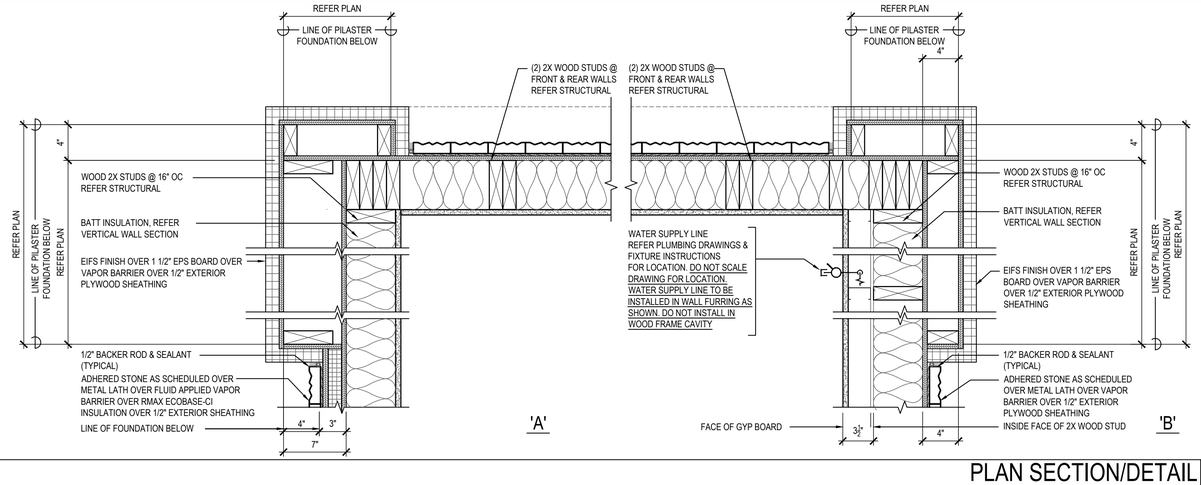


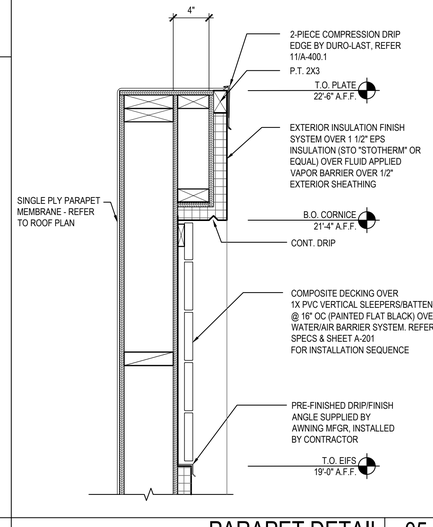

SILL DETAIL 01

Scale= 1 1/2" = 1'-0" A-400.2




PLAN SECTION/DETAIL 07

Scale= 1 1/2" = 1'-0" A-400.2




PARAPET DETAIL 05

Scale= 1 1/2" = 1'-0" A-400.2

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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Architects Engineers Planners
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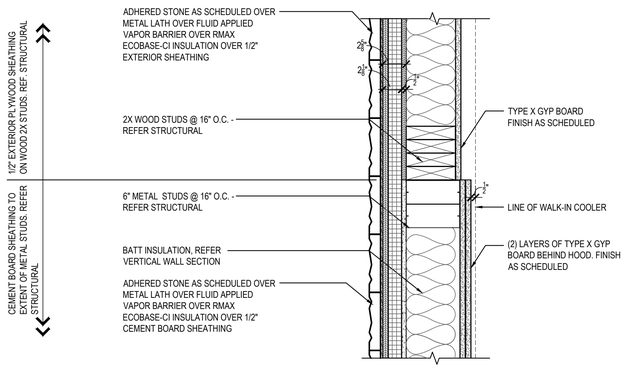
02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA15012
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

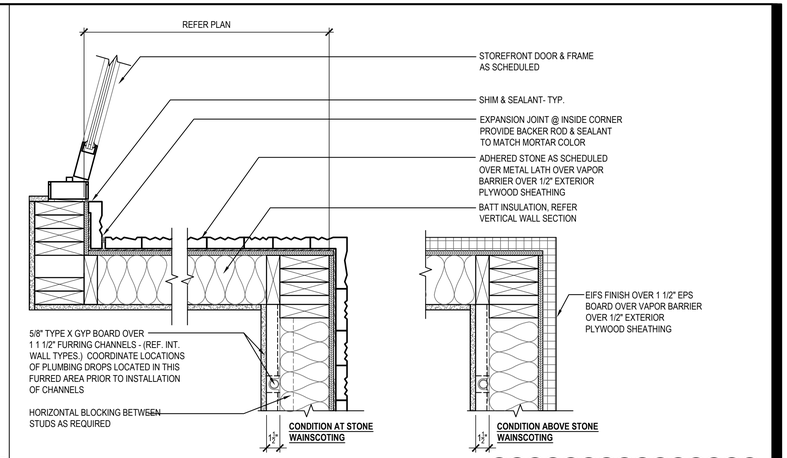
# A-400.2

ARCHITECTURAL DETAILS




PLAN SECTION/DETAIL 09
Scale= 1 1/2" = 1'-0" A-401

NOT USED 06
Scale= 1 1/2" = 1'-0" A-401

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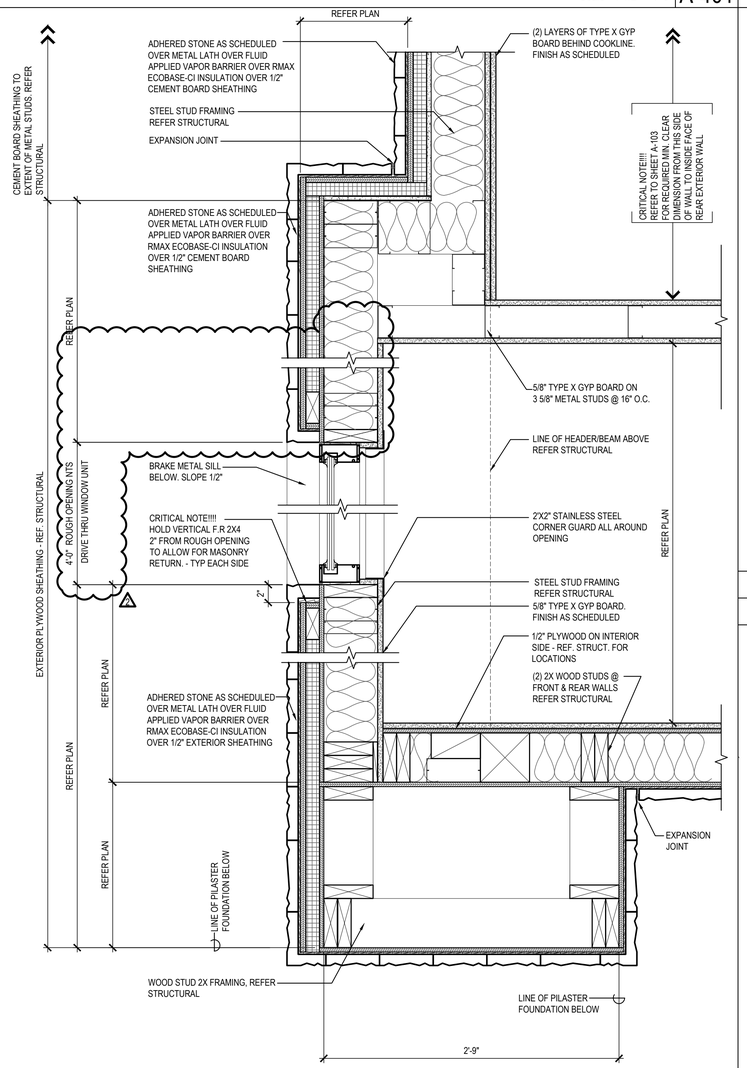


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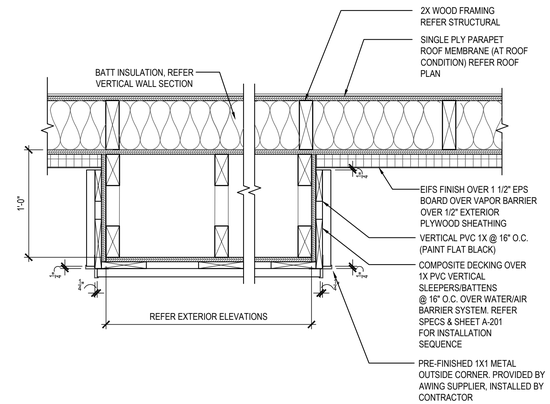
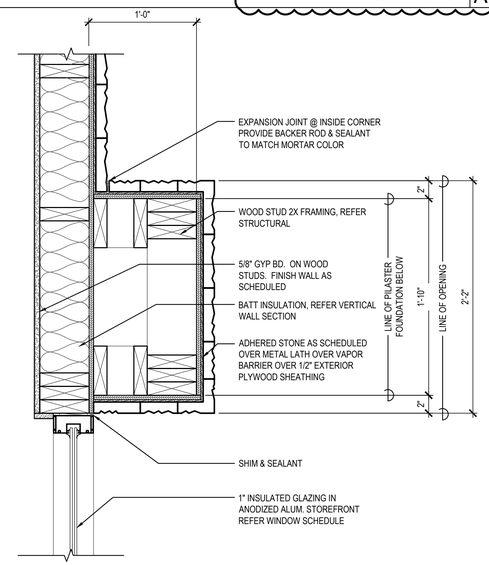



PLAN SECTION/DETAIL 05
Scale= 1 1/2" = 1'-0" A-401




PLAN SECTION/DETAIL 02
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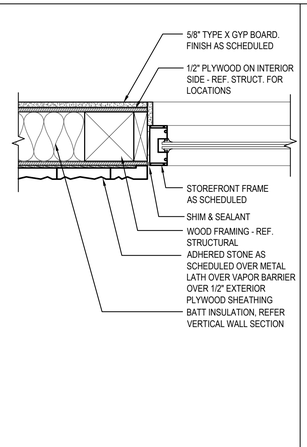


PLAN SECTION/DETAIL 07
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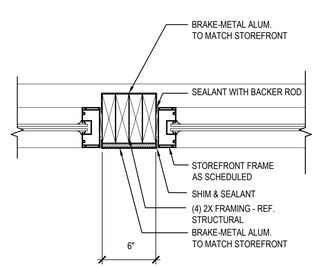


PLAN SECTION/DETAIL 04
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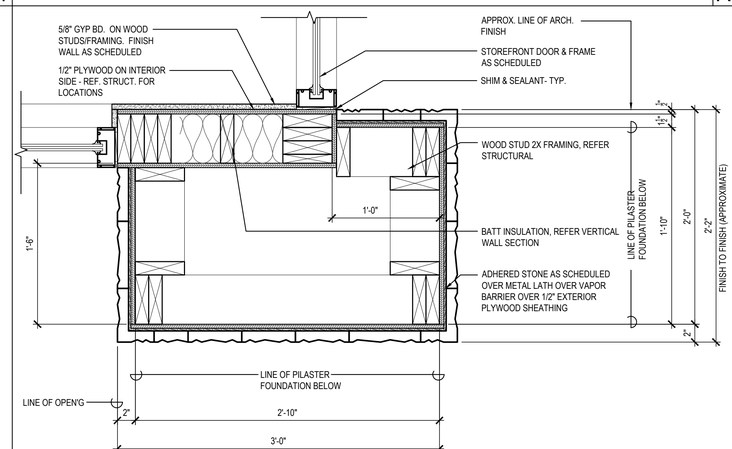


PLAN SECTION/DETAIL 01
Scale= 1 1/2" = 1'-0" A-401

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DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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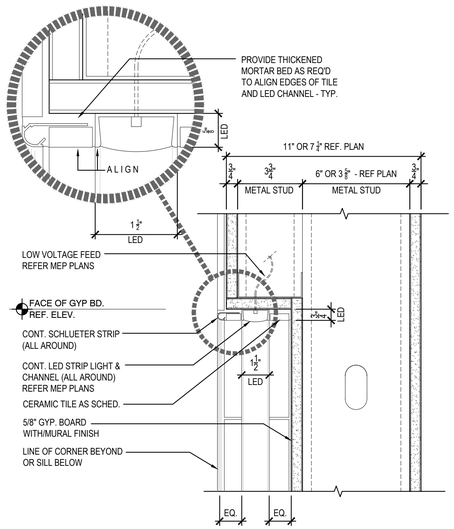
02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA15612
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

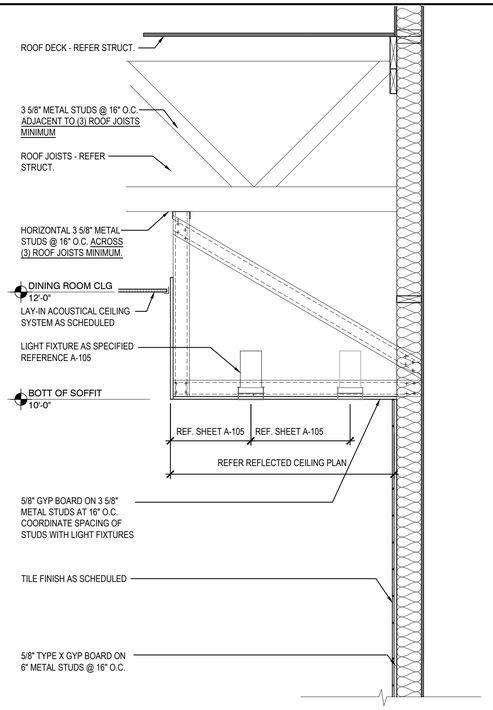
A-401
ARCHITECTURAL DETAILS

TRUE WARM & WELCOME 2300 R6

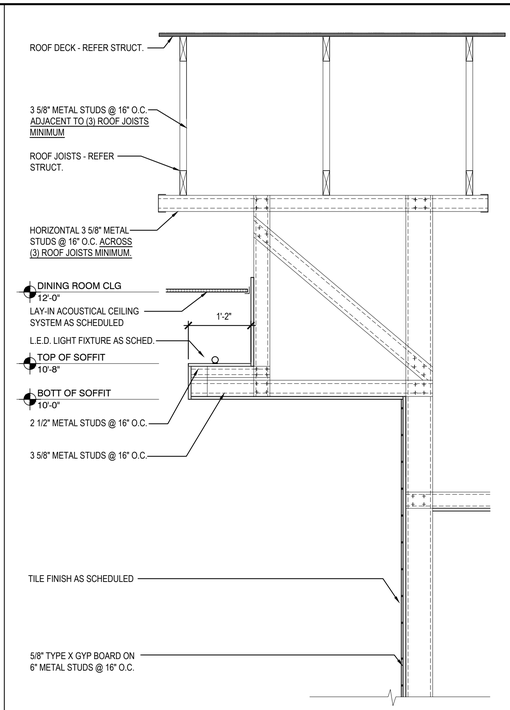



SILL CONDITION - SIM
JAMB CONDITION - SIM

ART MURAL DETAIL - HEAD | 11
Scale= 3" = 1'-0" | A-402

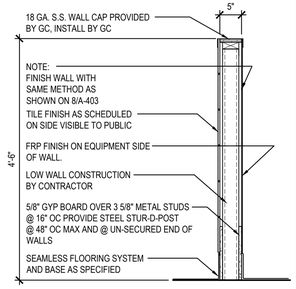



BEVERAGE STATION SOFFIT DETAILS | 10
Scale= 3/4" = 1'-0" | A-402

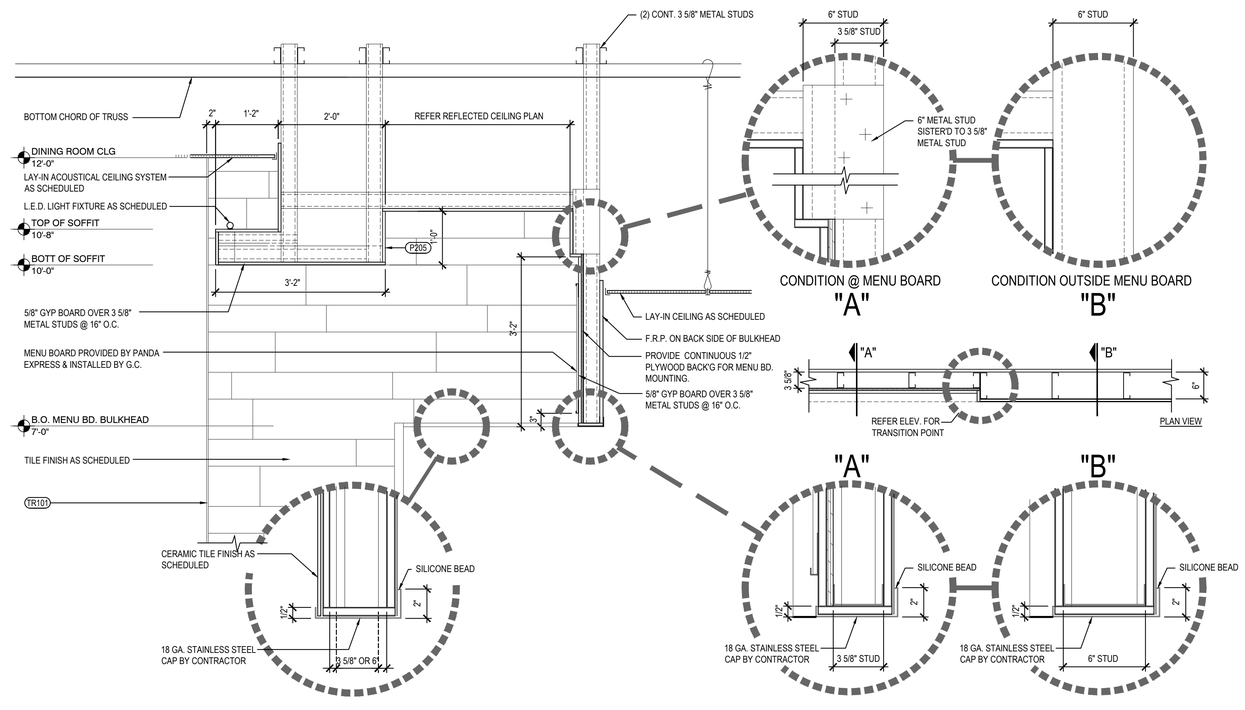



SOFFIT DETAILS | 9
Scale= 3/4" = 1'-0" | A-402

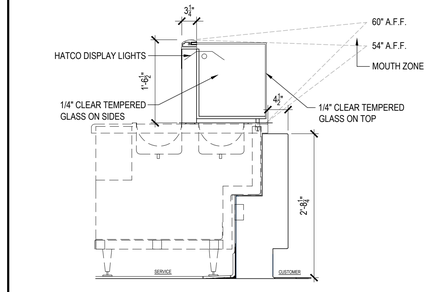
NOT USED | 3
Scale= NTS | A-402



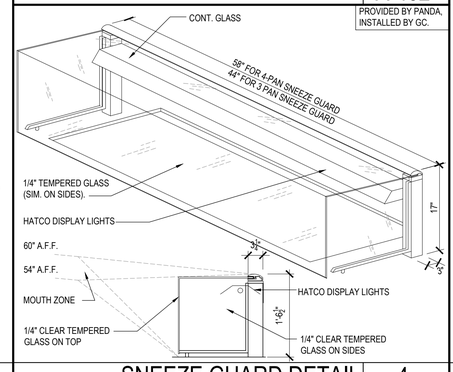

LOW WALL DETAIL | 2
Scale= 3/4" = 1'-0" | A-402



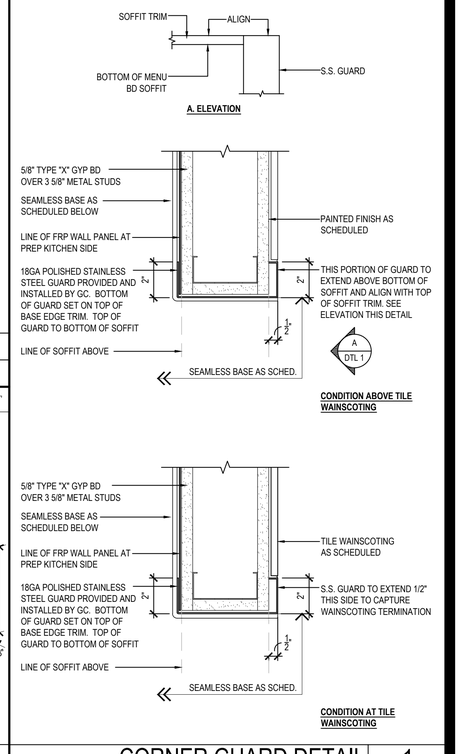

SERVICE COUNTER SOFFIT DETAILS | 8
Scale= 3/4" = 1'-0" | A-402




SNEEZE GUARD DETAIL | 5
Scale= NTS | A-402




SNEEZE GUARD DETAIL | 4
Scale= NTS | A-402




CORNER GUARD DETAIL | 1
Scale= 3" = 1'-0" | A-402

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
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DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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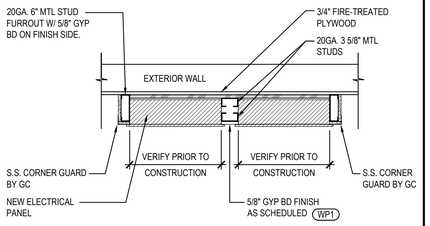
02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA19212
REGISTERED ARCHITECT

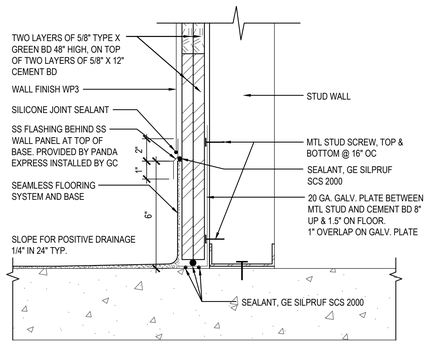
PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

A-402
ARCHITECTURAL DETAILS

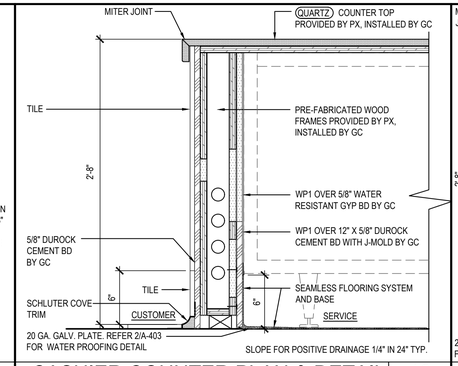
TRUE WARM & WELCOME 2300 R6



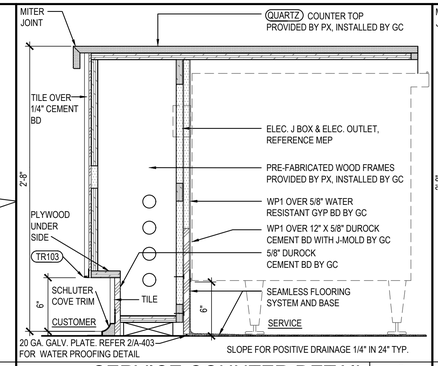

ELECTRIC PANELS DETAIL 20
Scale= 3/4" = 1'-0" A-403



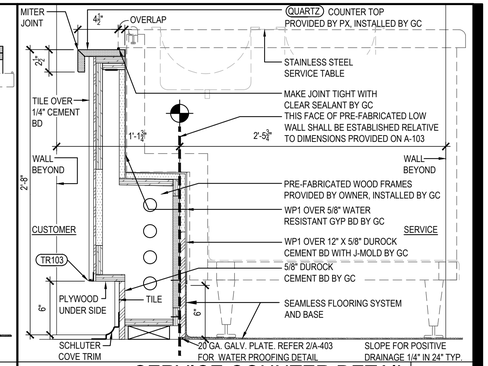

WALL BASE @ COOKLINE 16
Scale= NTS A-403



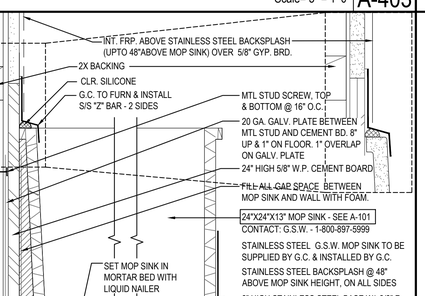

CASHIER COUNTER PLAN & DETAIL 12
Scale= 1 1/2" = 1'-0" A-403




SERVICE COUNTER DETAIL 8
Scale= 1 1/2" = 1'-0" A-403

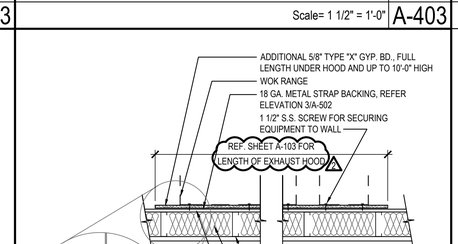



SERVICE COUNTER DETAIL 4
Scale= 1 1/2" = 1'-0" A-403

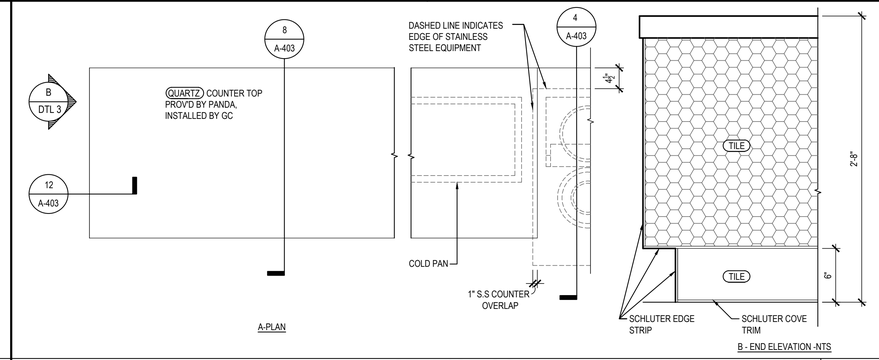



⚠ WALK-IN FREEZER GAP DETAIL 19
Scale= 3" = 1'-0" A-403

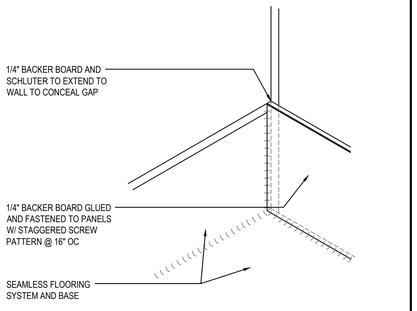
NOT USED 15
Scale= 1 1/2" = 1'-0" A-403



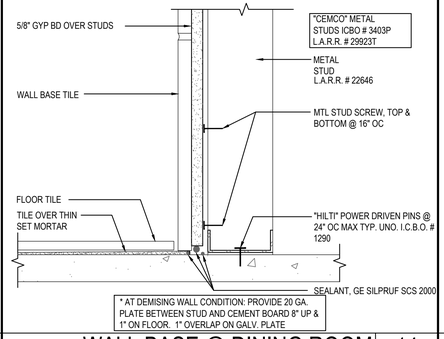

TYP. WALK-IN FREEZER SECTION 11
Scale= 1 1/2" = 1'-0" A-403



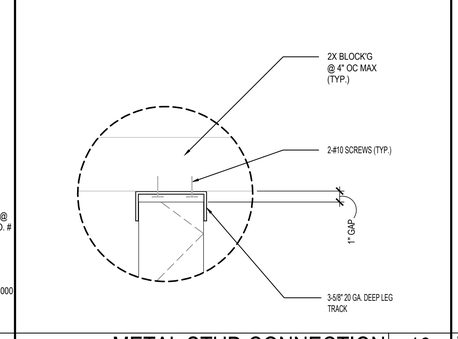

SERVICE COUNTER PLAN AND ELEVATION 3
Scale= 3/4" = 1'-0" A-403



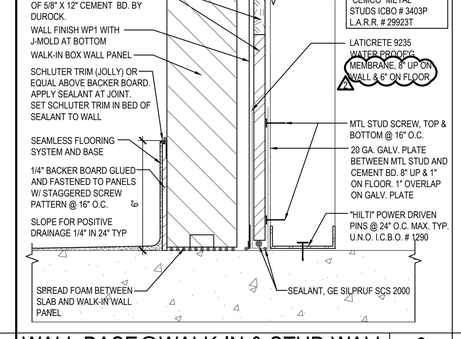

WALK-IN COOLER GAP DETAIL 18
Scale= 3" = 1'-0" A-403



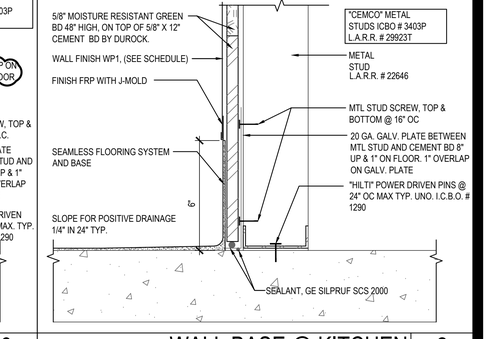

WALL BASE @ DINING ROOM 14
Scale= 3" = 1'-0" A-403




METAL STUD CONNECTION 10
Scale= 1 1/2" = 1'-0" A-403




WALL BASE@WALK-IN & STUD WALL 6
Scale= 3" = 1'-0" A-403




WALL BASE @ KITCHEN 2
Scale= 3" = 1'-0" A-403

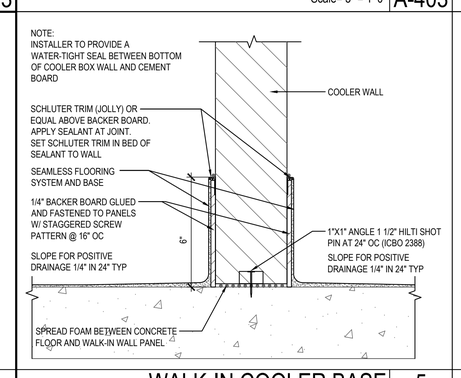



⚠ MOP SINK 17
Scale= 3" = 1'-0" A-403

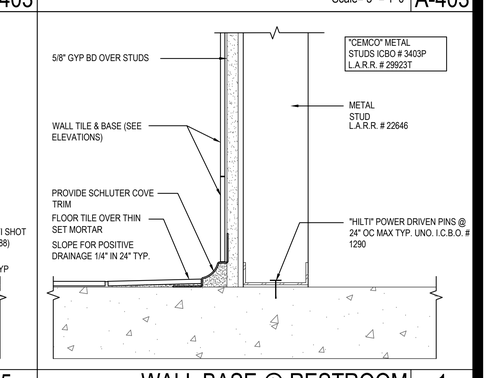
NOT USED 13
Scale= 3/4" = 1'-0" A-403




GYP. BOARD BEHIND COOKLINE 9
Scale= NTS A-403




WALK-IN COOLER BASE 5
Scale= 3" = 1'-0" A-403




WALL BASE @ RESTROOM 1
Scale= 3" = 1'-0" A-403

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
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| 1 | 09.01.2021 ISSUE FOR PERMIT |
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DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA19212
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

A-403
ARCHITECTURAL DETAILS

TRUE WARM & WELCOME 2300 R6

## NOT USED 21

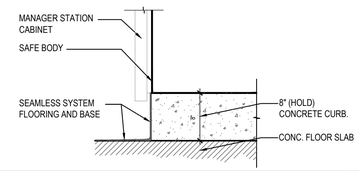
Scale= NTS A-404

MANAGER CABINET STATION CURB SIZES REFER FLR. PLAN FOR LOCATION

1) IF CABINET IS ENCLOSED BY 3 SIDE OF WALLS:
8" H X 24" W X 48-1/2" L (CONCRETE CURB ONLY, NOT INCLUDE SEAMLESS BASE)
SEAMLESS SYSTEM ON FRONT FACE (EXPOSED CURB). THIS APPLY TO PROTOTYPE BUILDING LAYOUTS.

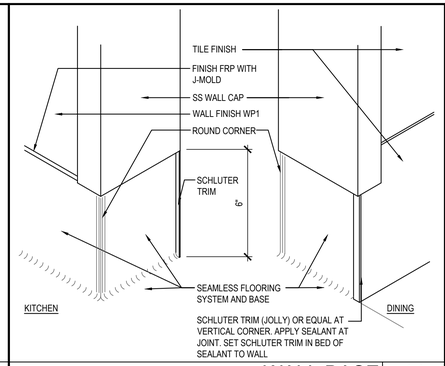
2) IF CABINET ENCLOSED BY ONLY (1) ONE WALL:
8" H X 24" W X 46" L (CONCRETE CURB ONLY, NOT INCLUDE SEAMLESS BASE)
SEAMLESS SYSTEM ON FRONT AND (1) SIDE FACE (EXPOSED CURB)

3) IF CABINET OPEN WITH NO WALLS:
8" H X 24" W X 46" L (CONCRETE CURB ONLY, NOT INCLUDE SEAMLESS BASE)
SEAMLESS SYSTEM ON ALL 3 SIDES OF THE CURB



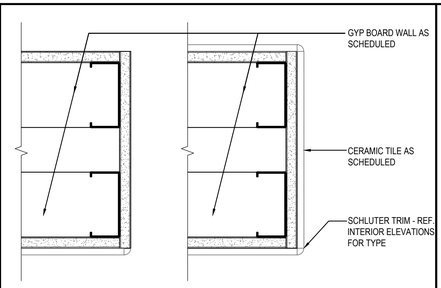

## MGR. STATION & SAFE CURB 20

Scale= 1" = 1'-0" A-404



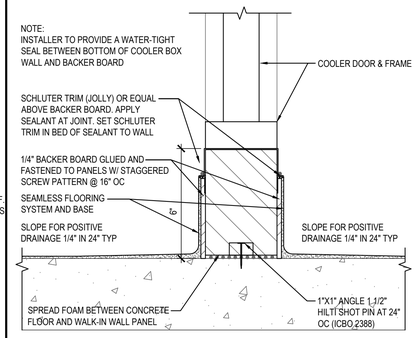

## WALL BASE 14

Scale= 3" = 1'-0" A-404



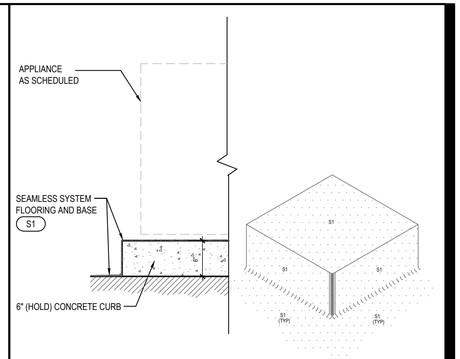

## PLAN SECTION WALL DETAIL 11

Scale= 3" = 1'-0" A-404



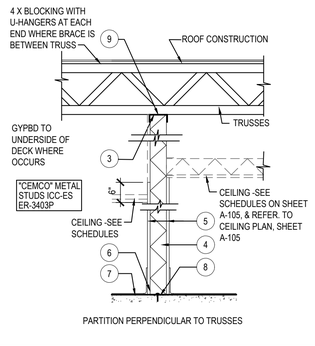

## WALL BASE @ COOLER 7

Scale= 3" = 1'-0" A-404



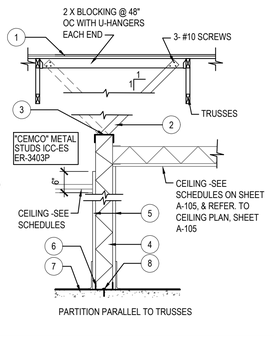

## 6" CURB DETAIL 4

Scale= 1" = 1'-0" A-404



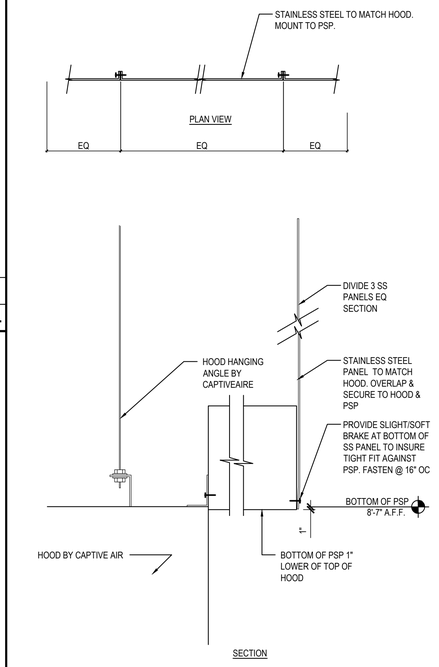

| HEIGHT | METAL STUD SIZE & SPACING |
|---|---|
| UP TO 12'-0" | 1¼"x3½"x20Ga @ 16" OC |
| BRACING LENGTH | SIZE |
| 6'-0" OR UNDER | 3½"x20Ga |
| 6'-1" TO 8'-0" | 4"x20Ga |

1. STRUCTURAL MEMBER ABOVE
2. BRACING @ 4'-0" OC STAGGERED W/ 3#10 EA. END
3. 20 Ga. CONT. TRACK W/ 8# SCREW/STUD
4. METAL STUDS (SEE SCHEDULE)
5. SEE ARCHITECTURAL FOR FINISH
6. CONT. 20 Ga. UNPUNCHED TRACK (1 1/16" FLANGE)
7. CONCRETE SLAB
8. HILTI POWDER ACTUATED FASTENER .145 Ø x 1 1/2" PENETRATION @ 32" OC OR EQUAL
9. 18 Ga. UNPUNCHED 3" DEEP LEG TRACK W/ 3 #10 SCREWS
10. #8 SCREW PER STUD TYPICAL CONNECTION EA. FLANGE OF STUD TO STEEL TRACK (TOP & BOTT. TRACK)



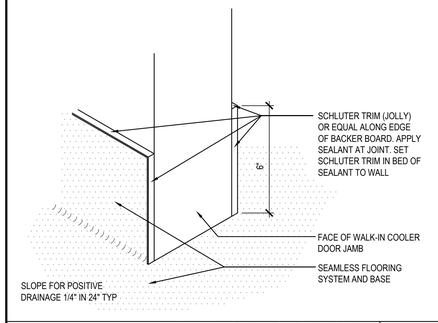

## PARTITION DETAILS 10

Scale= 3/4" = 1'-0" A-404




## S.S. DETAIL @ EXHAUST HOOD 6

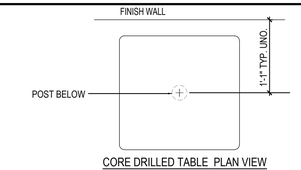
Scale= 1/2" = 1'-0" A-404



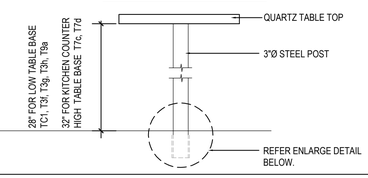

## WALL BASE @ COOLER 3

Scale= 3" = 1'-0" A-404

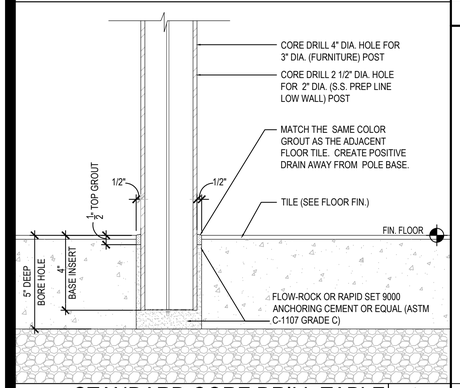
FINISH WALL




CORE DRILLED TABLE PLAN VIEW

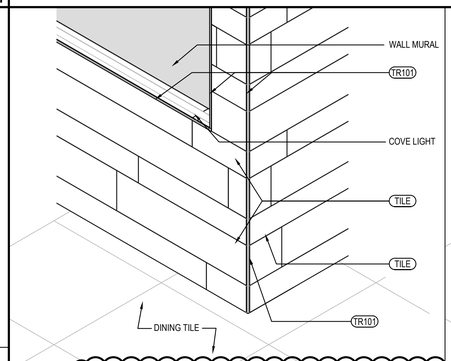



NOTE:
GC TO REFER CORE DRILL LOCATION ON SHEET A-109



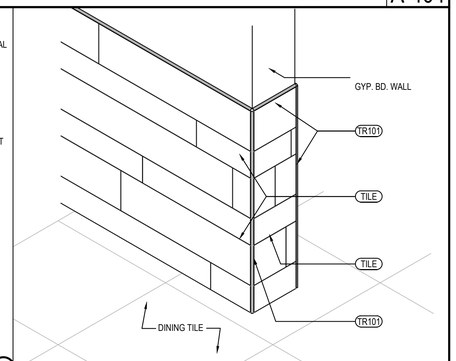

## STANDARD CORE DRILL TABLE 17

NTS A-404



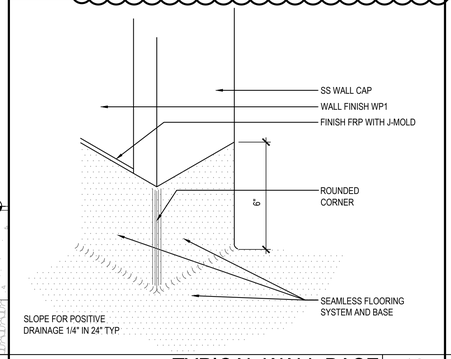

## ⚠ OUTSIDE CORNER ISOMETRIC 13

Scale= 3/4" = 1'-0" A-404



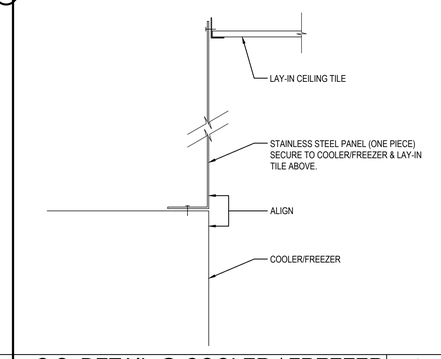

## OUTSIDE CORNER ISOMETRIC 9

Scale= 3/4" = 1'-0" A-404



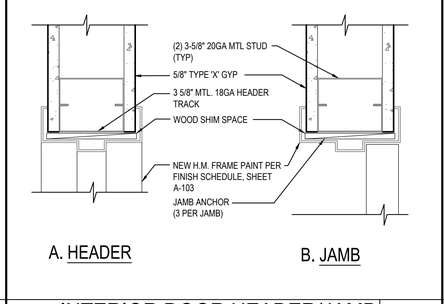

## TYPICAL WALL BASE 12

Scale= 3" = 1'-0" A-404



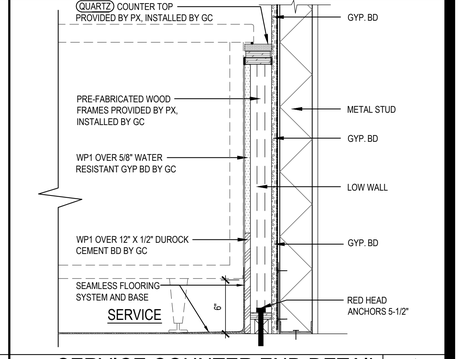

## S.S. DETAIL @ COOLER / FREEZER 8

Scale= 1/2" = 1'-0" A-404




## INTERIOR DOOR HEADER/JAMB 5

Scale= 3" = 1'-0" A-404




## SERVICE COUNTER END DETAIL 1

Scale= 1 1/2" = 1'-0" A-404


PANDA EXPRESS CHINESE KITCHEN

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Facsimile: 626.372.8288



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PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. PA15672
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-404

ARCHITECTURAL DETAILS

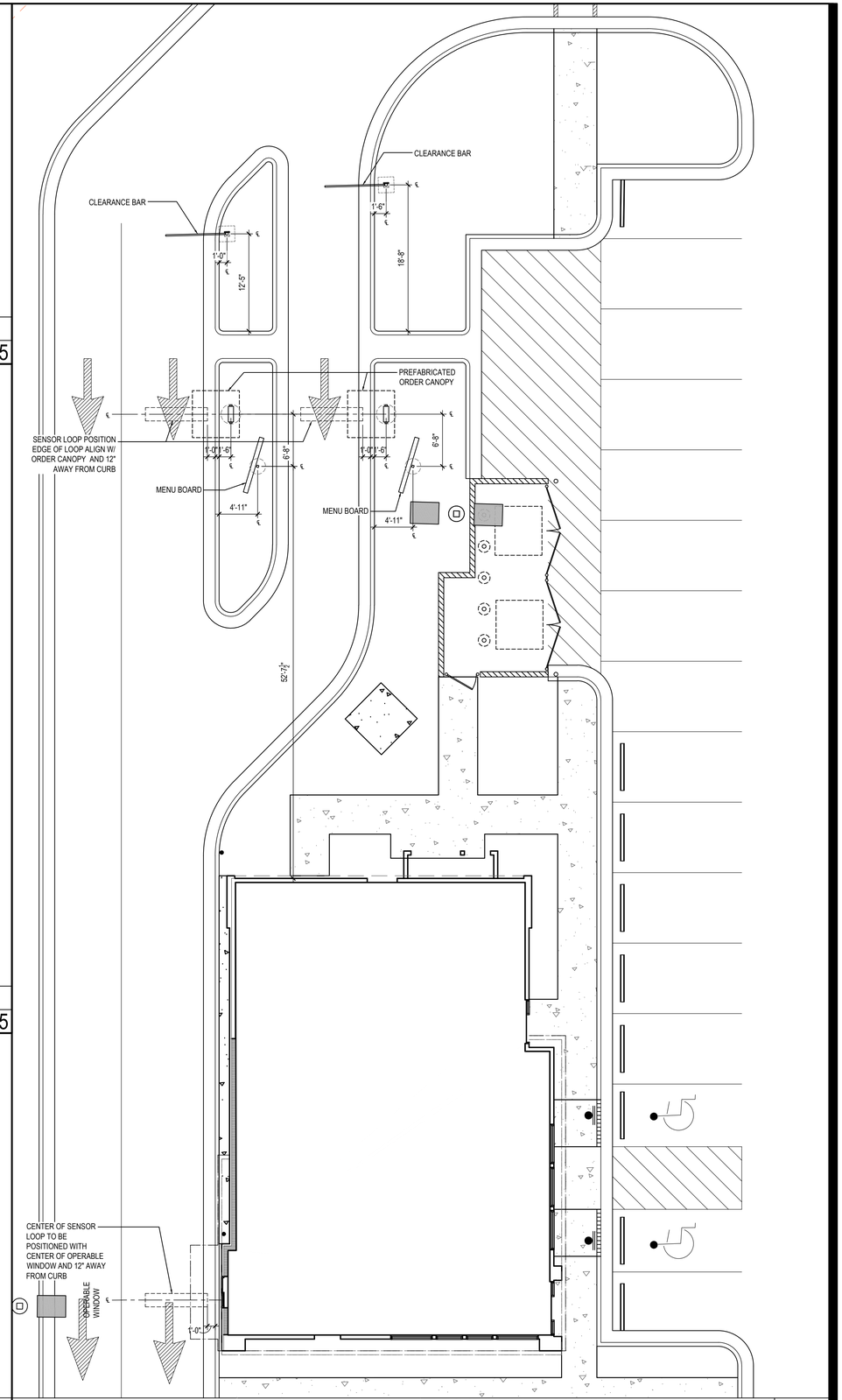
TRUE WARM & WELCOME 2300 R6

NOT USED 4
Scale= 1/2" = 1'-0" A-405

NOT USED 5
Scale= 1/8" = 1'-0" A-405

NOT USED 3
Scale= NTS A-405

NOT USED 2
Scale= 1/4" = 1'-0" A-405




DRIVE - THRU MENU BOARD LOCATION 1
Scale= 1/8" = 1'-0" A-405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02.08.2022

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CERTIFICATE NO. RA15612
REGISTERED ARCHITECT

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

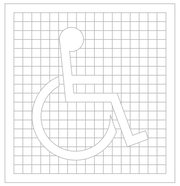
# A-405

ARCHITECTURAL DETAILS
DRIVE THRU

TRUE WARM & WELCOME 2300 R6

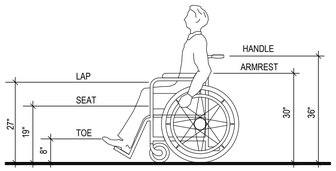
## SITE DEVELOPMENT:

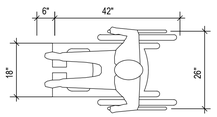
1. SURFACE SLOPES OF PARKING SPACES FOR THE PHYSICALLY DISABLED SHALL NOT EXCEED 1/4-INCH PER FOOT IN ANY DIRECTION.
2. PEDESTRIAN WAYS THAT ARE ACCESSIBLE TO THE PHYSICALLY DISABLED SHALL BE PROVIDED FROM EACH DISABLED PARKING SPACE TO RELATED FACILITIES, INCLUDING CURBS CUTS OR RAMPS AS REQUIRED.
3. THE SURFACE OF EACH PARKING SPACE SHALL HAVE A SURFACE IDENTIFICATION DUPLICATING THE SYMBOL OF ACCESSIBILITY CONSISTING OF A WHITE FIGURE ON A BLUE BACKGROUND, AT LEAST 3' FEET SQUARE



PROPORTIONS
INTERNATIONAL SYMBOL OF ACCESSIBILITY

DISPLAY CONDITIONS
INTERNATIONAL SYMBOL OF ACCESSIBILITY (1)

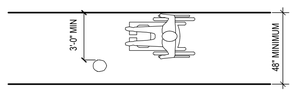


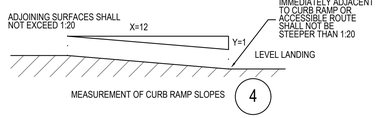

DIMENSIONS OF ADULT-SIZED WHEELCHAIRS (2)

## CURB RAMPS, WALKS AND SIDEWALKS:

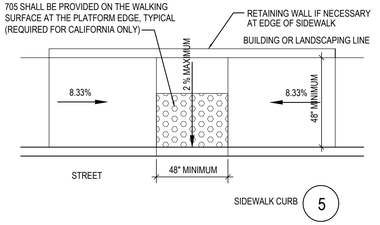
4. WALKS AND SIDEWALKS SHALL HAVE CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING ¼" AND SHALL BE A MINIMUM OF 36" IN. WIDTH PER ADA. (48" MIN. IS RECOMMENDED, 48" MIN. IS REQUIRED FOR CALIFORNIA)
5. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL (5% GRADIENT) IT SHALL COMPLY WITH THE PROVISIONS FOR PEDESTRIAN RAMPS.
6. SURFACE CROSS SLOPES SHALL NOT EXCEED 1.5% PER FOOT.
7. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED ¼", WHEN CHANGES IN LEVELS DO OCCUR, THEY SHALL NOT BE BEVELED WITH A SLOPE NOT GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING ¼" MAY BE VERTICAL
8. WHEN CHANGES IN LEVELS GREATER THAN ½" ARE NECESSARY, THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS & PEDESTRIAN RAMPS.
9. NOT USED
10. CURB RAMPS SHALL BE CONSTRUCTED AT EACH CORNER OF STREET INTERSECTIONS AND WHERE A PEDESTRIAN WAY CROSSES A CURB.
11. CURB RAMPS SHALL BE A MINIMUM OF 4 FEET IN WIDTH AND SHALL LIE GENERALLY, IN A SINGLE SLOPED PLANE, WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
12. THE SLOPE OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 7.5 HORIZONTAL. THE SLOPE OF THE FANNED OR FLARED SIDES OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 7.5 HORIZONTAL.
13. A 1.5% MAXIMUM SLOPE LANDING 4 FEET DEEP SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP OVER ITS FULL WIDTH TO PERMIT SAFE EGRESS FROM THE RAMP SURFACE.
14. NOT USED
15. THE SURFACE OF EACH CURB RAMP AND ITS FLARED SIDES SHALL BE SLIP-RESISTANT AND SHALL BE OF CONTRASTING FINISH FROM THAT OF THE ADJACENT SIDEWALK.
16. NOT USED




MINIMUM PASSAGE WIDTH FOR ONE WHEELCHAIR AND ONE AMBULATORY PERSON (3)




MEASUREMENT OF CURB RAMP SLOPES (4)

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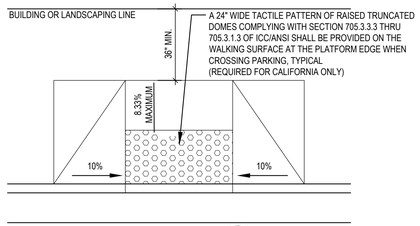
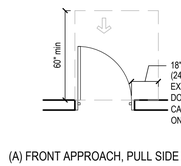
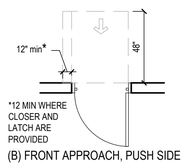


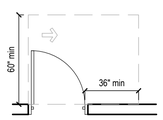

SIDEWALK CURB (6)



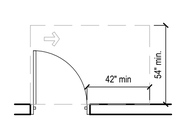

(A) FRONT APPROACH, PULL SIDE



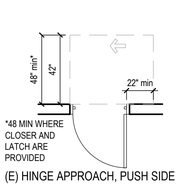

(B) FRONT APPROACH, PUSH SIDE



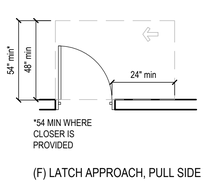

(C) HINGE APPROACH, PULL SIDE



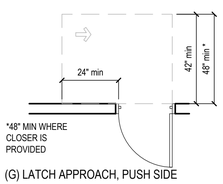

(D) HINGE APPROACH, PULL SIDE




(E) HINGE APPROACH, PUSH SIDE




(F) LATCH APPROACH, PULL SIDE




(G) LATCH APPROACH, PUSH SIDE

(7)

## ENTRANCES:

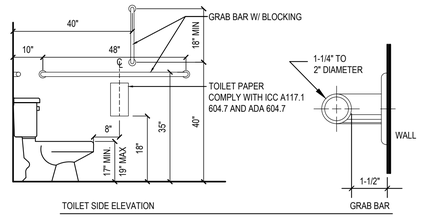
17. PROVIDE AT METALLIC SIGN OVER EACH STOREFRONT DOOR STATING: "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". LETTERS SHALL NT BE LESS THAN 1" HIGH ON A CONTRASTING BACKGROUND. THE SIGN SHALL BE INSTALLED BY THE GENERAL CONTRACTOR ON THE STOREFRONT ALUMINUM HEADER FRAME.
18. ALL NEW PRIMARY ENTRANCES TO THE BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED.
19. ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS. GENERAL CONTRACTOR SHALL PROVIDE STANDARD SIGNAGE. CALIFORNIA REQUIRES ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY) AT ALL ACCESSIBLE ENTRANCES.
20. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6 FEET - 8 INCHES IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF DOORWAY IS NOT LESS THAN 32-INCHES
21. WHERE PAIR OF DOORS IS UTILIZED AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
22. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. REFER TO SECTION 404.2.7 OF IBC
23. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34-INCHES MINIMUM AND 48" ABOVE THE FLOOR. (34-INCHES TO 44-INCHES FOR CALIFORNIA ONLY)
24. THE FLOOR AND LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH OF 60-INCHES IN THE DIRECTION OF TRAVEL AND THE LENGTH OF 48-INCHES IN OPPOSITE DIRECTION OF TRAVEL. SEE DIAGRAM "MANEUVERING CLEARANCE"
25. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24-INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18-INCHES PAST THE STRIKE EDGE FOR THE INTERIOR DOORS.
26. THE FLOOR OR LANDING SHALL BE NOT MORE THAN ½" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN ¼" AND ½" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2
27. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRIP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSHED SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
28. A NARROW FRAME WITH A BEVELED TOP (30 DEGREES MAX BEVEL TO VERTICAL PLANE) INSTALLED AT THE BOTTOM OF THE GLASS DOOR (WITH NO SIDE FRAMES) MAY BE USED IN LIEU OF PROVIDING THE REQUIRED 10" UNINTERRUPTED SURFACE AT THE BOTTOM OF THE DOOR.
29. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT EXCEED 15 LBS.

## CORRIDORS AND AISLE:

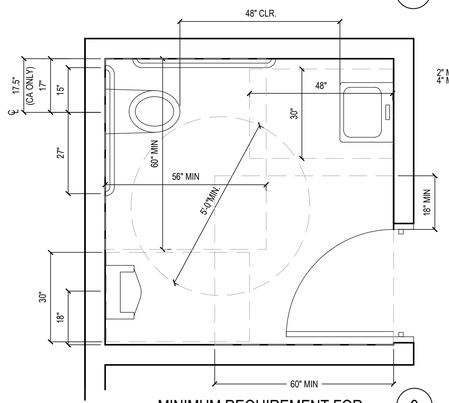
30. FLOOR SURFACES SHALL BE SLIP-RESISTANT
31. EVERY PORTION OF EVERY BUILDING IN WHICH ARE INSTALLED SEA TS, TABLES, MERCHANDISE, EQUIPMENT OR SIMILAR MATERIALS SHALL BE PROVIDED WITH AISLES LEADING TO AN EXIT.
32. EVERY AISLE SHALL BE NOT LESS THAN 3 FEET WIDE IF SERVING ONLY ONE SIDE, AND NOT LESS THAN 3 FEET-8 INCHES WIDE IF SERVING BOTH SIDES. SUCH MINIMUM WIDTH SHALL BE MEASURED AT THE POINT FARTHEST FROM AN EXIT, CROSS AISLE OR FOYER AND SHALL BE INCREASED BY 1-1/2" INCHES FOR EACH 5 FEET IN LENGTH TOWARD THE EXIT. CROSS AISLE OR FOYER WITH CONTINENTAL SEATING SIDE AISLES SHALL BE NOT LESS THAN 44 INCHES IN WIDTH.

## SANITARY FACILITIES:

33. ACCESSIBLE SIGN CONTAINING TACTILE CHARACTER IS PROVIDED AT DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR ON LATCH SIDE AND AT DOUBLE DOORS, THE SIGN SHALL BE RIGHT OF THE RIGHT HANDED DOOR. THE SIGN CONTAINING TACTILE CHARACTERS SHALL HAVE 18" MINIMUM BY 18" MINIMUM SPACE ON THE FLOOR CENTERED ON SIGN. THE SIGN TACTILE CHARACTER SHALL BE 48" MINIMUM TO THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER ABOVE FLOOR.
34. CLEARANCE AROUND THE WATER CLOSET SHALL BE 60" MINIMUM MEASURED PERPENDICULAR FROM THE SIDEWALL, AND 56" MINIMUM MEASURED PERPENDICULAR FROM REAR WALL. NO OTHER FIXTURES OR OBSTRUCTION SHALL BE WITHIN WATER CLOSET CLEARANCE (PER ADA) (REFER TO LOCAL JURISDICTION FOR ADDITIONAL REQUIREMENTS.
35. WATER CLOSET COMPARTMENTS SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND SHALL HAVE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WHEN LOCATED AT THE END AND 34-INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROMITS CLOSED POSITION.
36. EXCEPT FOR DOOR OPENING WIDTH AND DOOR SWINGS; A CLEAR UNOBSTRUCTED ACCESS NOT LESS THAN 44-INCHES SHALL BE PROVIDED TO WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY THE DISABLED. THE SPACE IMMEDIATELY IN FRONT OF A WATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN 48-INCHES AS MEASURED AT RIGHT ANGLES TO THE COMPARTMENT DOOR IN IT'S CLOSED POSITION.
37. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17-INCHES AND A MAXIMUM OF 19-INCHES MEASURED TO THE TOP OF TOILET SEAT.
38. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44-INCHES ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.
39. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR SPACE 30-INCHES WIDE X 48-INCHES LONG IN FRONT OF THE URINAL.
40. WHEN MORE THAN ONE URINAL IS PROVIDED, AT LEAST ONE SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17" MAXIMUM ABOVE THE FINISH FLOOR. URINALS SHALL BE 13-1/2" DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.
41. A CLEAR FLOOR FORWARD APPROACH, AND KNEE AND TOE CLEARANCE SHALL BE PROVIDED. A SPACE 30-INCHES MINIMUM WIDE X 48-INCHES MINIMUM LONG SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR SPACE. SUCH CLEAR FLOOR SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE UNDERNEATH THE LAVATORY.
42. LAVATORIES SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34-INCHES MAXIMUM ABOVE THE FINISH FLOOR.
43. TOE CLEARANCE: SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR AND 9-INCHES ABOVE THE FINISH FLOOR SHALL BE CONSIDERED TOE CLEARANCE. TOE CLEARANCE SHALL EXTEND 17-INCHES MINIMUM TO 25-INCHES MAXIMUM UNDER AN ELEMENT WITH A WIDTH OF 30-INCHES MINIMUM. SPACE EXTENDING GREATER THAN 6-INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9-INCHES ABOVE THE FINISH FLOOR SHALL NOT BE CONSIDERED TOE CLEARANCE.
43. KNEE CLEARANCE: SPACE UNDER AN ELEMENT BETWEEN 9-INCHES AND 27-INCHES ABOVE THE FINISH FLOOR SHALL BE CONSIDERED KNEE CLEARANCE. KNEE CLEARANCE SHALL EXTEND 25-INCHES MAXIMUM UNDER AN ELEMENT AT 9-INCHES ABOVE THE FINISH FLOOR AND BE 30-INCHES WIDE MINIMUM. KNEE CLEARANCE SHALL BE 11-INCHES DEEP MINIMUM AT 9-INCHES ABOVE FINISH FLOOR, AND 8-INCHES DEEP MINIMUM AT 27-INCHES ABOVE FINISH FLOOR. BETWEEN 9-INCHES AND 27-INCHES ABOVE FINISH FLOOR, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1-INCH IN DEPTH FOR EACH 6-INCHES IN HEIGHT. (CALIFORNIA KNEE CLEARANCE IS 29-INCHES AT THE FRONT EDGE AND 27-INCHES AT 8-INCHES DEEP)
44. ALL PIPES (HOT WATER, DRAIN PIPES, ETC.) UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
45. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGN. HAND OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.
46. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM REFLECTING EDGE NOT MORE THAN 40-INCHES FROM THE FLOOR.
47. LOCATE TOWEL, SANITARY NAPKIN, AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40-INCHES FROM THE FLOOR.
48. LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 7-9 INCHES IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET SHALL BE 15-INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR, AND SHALL NOT BE LOCATED BEHIND THE GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW.




## ACCESSIBLE SANITARY FACILITIES (8)




MINIMUM REQUIREMENT FOR ACCESSIBLE SANITARY FACILITIES (9)

## GRAB BARS:

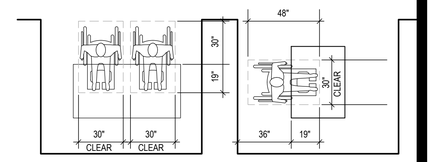
49. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE DESIGNED FOR 250 LBS. PER LINEAR FEET LOAD.
50. GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 35-INCHES TO TOP OF GRAB BAR AND PARALLEL TO THE FLOOR. VERTICAL GRAB BAR SHALL BE 18-INCHES LONG, INSTALLED AT 40-INCHES FROM THE REAR WALL AND 40-INCHES ABOVE FINISH FLOOR.
51. GRAB BARS AT THE SIDE WALL SHALL BE AT LEAST 48-INCHES LONG MINIMUM, LOCATED 12-INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54-INCHES MINIMUM FROM THE REAR WALL. THE REAR WALL GRAB BAR SHALL BE 42-INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12-INCHES MINIMUM ON ONE SIDE AND 24-INCHES MINIMUM ON THE OTHER.
52. GRAB BARS WITH CIRCULAR CROSS-SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM TO 2 INCHES MAXIMUM. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM.
53. IF THE GRAB BAR IS MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES.
54. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
55. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
56. COAT HOOKS SHALL BE LOCATED WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48-INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15-INCHES MINIMUM ABOVE THE FINISH FLOOR.
57. WHERE LOCKERS ARE PROVIDED, AT LEAST ONE AND NOT LESS THAN 5% PERCENT OF ALL LOCKERS SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED. A PATH OF TRAVEL NOT LESS THAN 36-INCHES IN CLEAR WIDTH SHALL BE PROVIDED TO THESE LOCKERS AND A CLEAR SPACE FOR A CIRCLE WITH DIAMETER OF 60-INCHES.

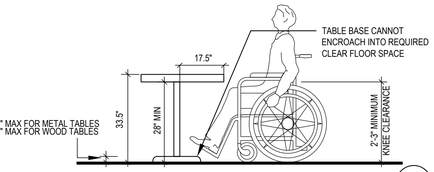
## TELEPHONES:

58. IF PUBLIC TELEPHONES ARE PROVIDED, THEY SHALL COMPLY WITH DISABLED ACCESS REQUIREMENTS.
59. PROVIDE 30' X 48' CLEAR SPACE AT TELEPHONE. THE CLEAR SPACE MAY INCLUDE KNEE SPACE UNDER THE TELEPHONE.
60. THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE WITHIN 48- INCHES OF THE FLOOR IF FORWARD APPROACHED AND UNOBSTRUCTED SIDE REACH AND 48-INCHES MAX IF SIDE APPROACHED WITH 10" MAX OBSTRUCTED AND 46" MAX WITH 24" MAX OBSTRUCTION.
61. SIDE APPROACH TELEPHONES REQUIRE THAT THE ENCLOSURE OVERHANG BE NO MORE THAN 19-INCHES AND BE AT LEAST 27-INCHES FROM THE FLOOR.
62. THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL BE AT LEAST 29-INCHES LONG.
63. TELEPHONES SHALL BE HEARING AID COMPATIBLE PER ICC/ANSI SEC. 704.2.5
64. TELEPHONES SHALL HAVE PUSH-BUTTON CONTROLS WHERE SERVICE FOR SUCH EQUIPMENT IS AVAILABLE.

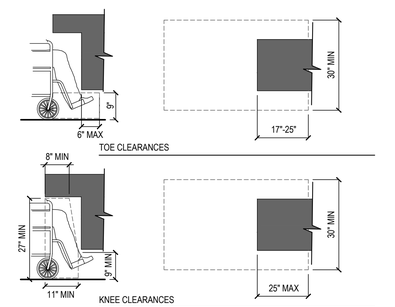
## ADDITIONAL REQUIREMENTS:

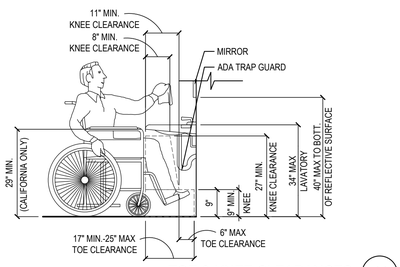
65. THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15- INCHES ABOVE THE FLOOR OR WORKING PLATFORMS,
66. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE 48" MAX HEIGHT FOR UNOBSTRUCTED FORWARD AND SIDE REACH. 48" MAX HEIGHT WITH 10" MAX OBSTRUCTION AT SIDE REACH. 46" MAX HEIGHT AT 24" MAX OBSTRUCTION AT SIDE REACH
67. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS. THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595A.




MINIMUM CLEARANCES FOR SEATING AND TABLES (10)




TOE & KNEE CLEARANCES (11)

68. CALIFORNIA ONLY: EACH PARKING SPACE RESERVED FOR PERSONS WITH PHYSICAL DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN ARE AND WHEN IN PATH OF TRAVEL, SHALL BE POSTED AT A MINIMUM OF 60-INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. AN ADDITIONAL SIGN SHALL ALSO BE POSTED AT ENTRANCE TO OFF-STREET PARKING FACILITY OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL NOT BE LESS THAN 12-INCHES BY 18-INCHES IN SIZE WITH LETTERING NOT LESS THAN 1-INCH IN HEIGHT. REFER TO DETAIL 4 / A-408
69. AT KITCHEN: SINKS, FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER- OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGN. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS FOR AT LEAST 10 SECONDS.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REVISIONS:

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


Cuhaci & Peterson
Architects Engineers Planners
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Florida Corporate Certificate #AA C000526


02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. PA15018
REGISTERED ARCHITECT

# PANDA EXPRESS

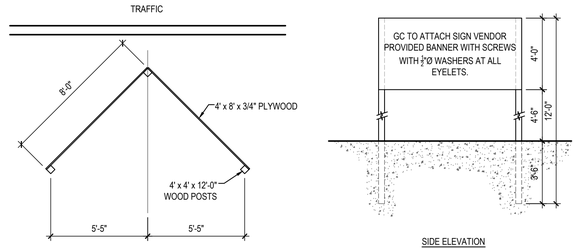
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-406

ACCESSIBILITY NOTES AND DETAILS

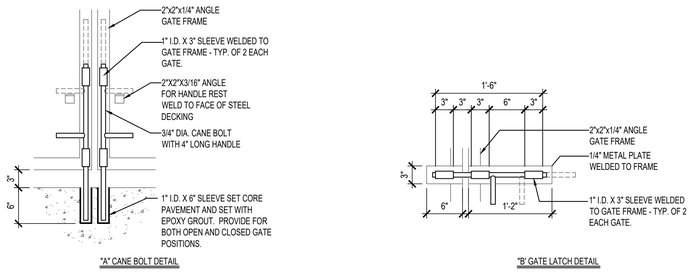
TRUE WARM & WELCOME 2300 R6

NOTE: GC TO COORDINATE PLACEMENT ONSITE WITH PANDA PROJECT MANAGER.




## "COMING SOON" SIGN DETAIL 16

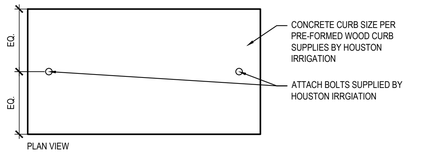
Scale= 1/4" = 1'-0" A-407

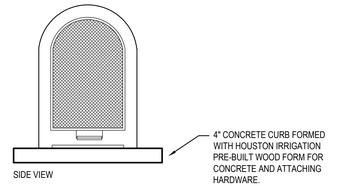


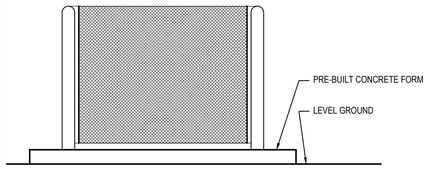

## DUMPSTER GATE LATCH DETAILS 15

Scale= NTS A-407

PROVIDE & INSTALL CAGE AND COVER FOR THE BACK-FLOW PREVENTER AT 4" CONCRETE CURB IN LANDSCAPE AREA; GORILLA CAGE, MANUFACTURED BY HOUSTON IRRIGATION SERVICES SPRING, TEXAS (281-705-9701). PROVIDE INSULATED COVER, 'AQUA SHIELD' MODEL # BFP1-S FOR COLDER REGIONS OF US. COORDINATE WITH PANDA PM.

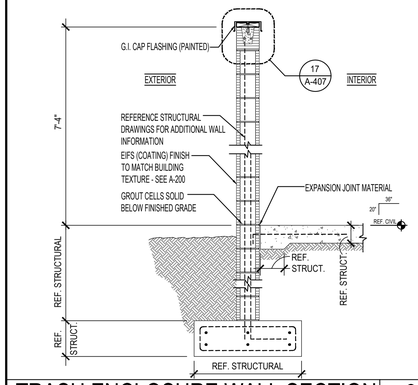


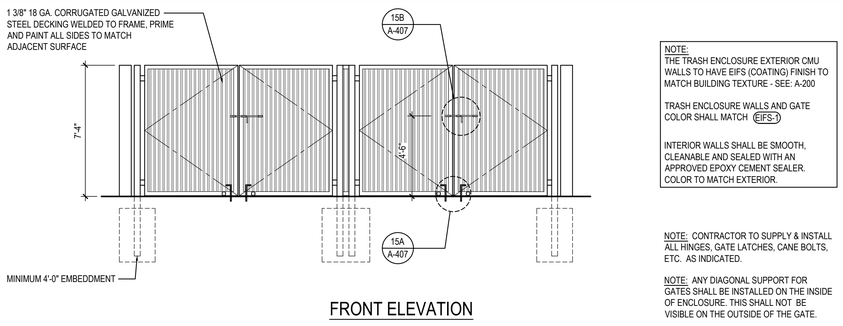

## BACKFLOW PROTECTION CAGE 11

Scale= NTS A-407




## TRASH ENCLOSURE WALL SECTION 8

Scale= 1/2" = 1'-0" A-407




FRONT ELEVATION

NOTE:
THE TRASH ENCLOSURE EXTERIOR CMU WALLS TO HAVE EIFS (COATING) FINISH TO MATCH BUILDING TEXTURE - SEE: A-200

TRASH ENCLOSURE WALLS AND GATE COLOR SHALL MATCH EIFS-1

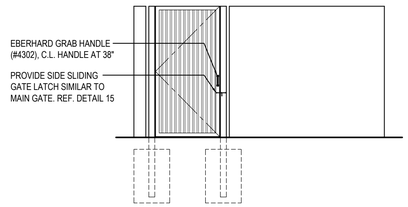
INTERIOR WALLS SHALL BE SMOOTH, CLEANABLE AND SEALED WITH AN APPROVED EPOXY CEMENT SEALER. COLOR TO MATCH EXTERIOR.

NOTE: CONTRACTOR TO SUPPLY & INSTALL ALL HINGES, GATE LATCHES, CANE BOLTS, ETC. AS INDICATED.

NOTE: ANY DIAGONAL SUPPORT FOR GATES SHALL BE INSTALLED ON THE INSIDE OF ENCLOSURE. THIS SHALL NOT BE VISIBLE ON THE OUTSIDE OF THE GATE.

## FRONT ELEVATION 2

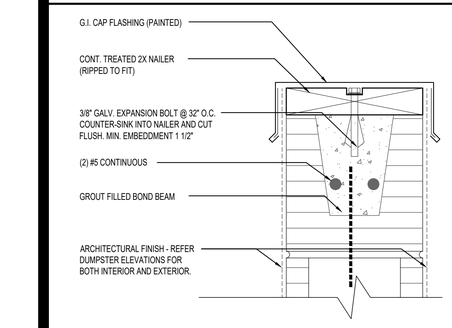
Scale= 1/4" = 1'-0" A-407




SIDE ELEVATION

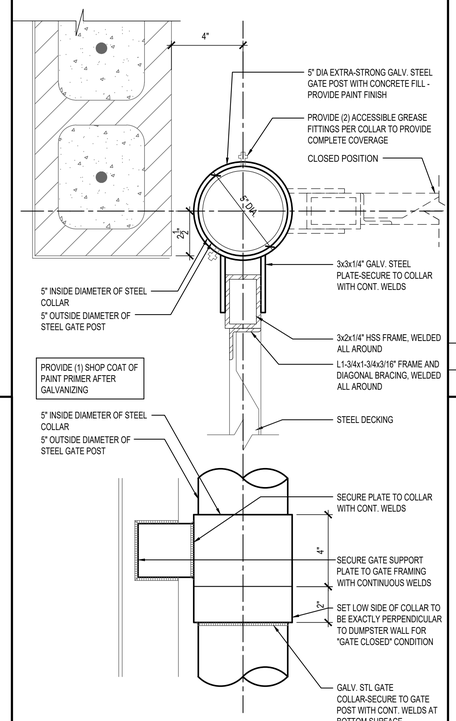
## SIDE ELEVATION 4

Scale= 1/4" = 1'-0" A-407




## DUMPSTER CAP DETAIL 17

Scale= 3" = 1'-0" A-407




## HINGE DETAIL 13

Scale= 3" = 1'-0" A-407

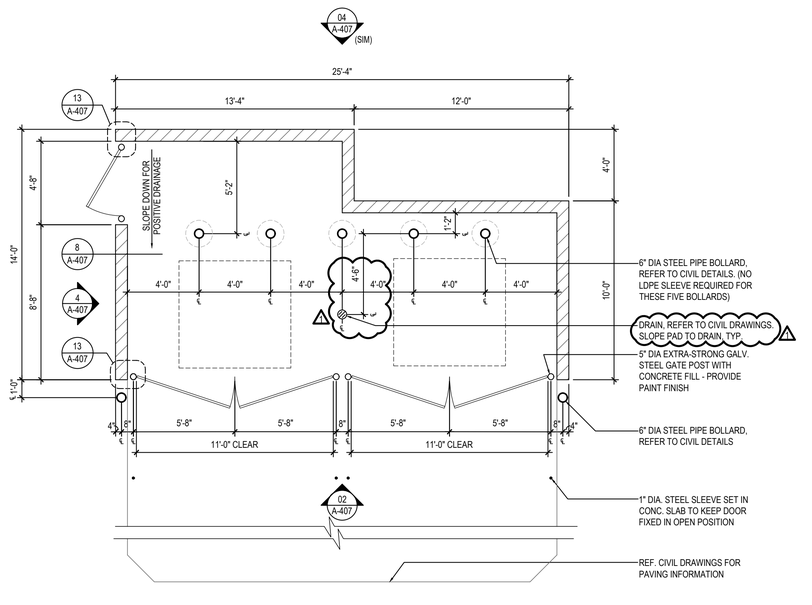
## NOT USED 10

Scale: A-407

## NOT USED 9

Scale: A-407

NOTE:
REFER TO CIVIL FOR DUMPSTER AREA FLOOR FINISH




## TRASH ENCLOSURE 1

Scale= 1/4" = 1'-0" A-407


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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|---|---|
| 1 | 12.30.21 PERMIT COMMENTS |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA19212
REGISTERED ARCHITECT

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

A-407

TRASH ENCLOSURE DETAILS

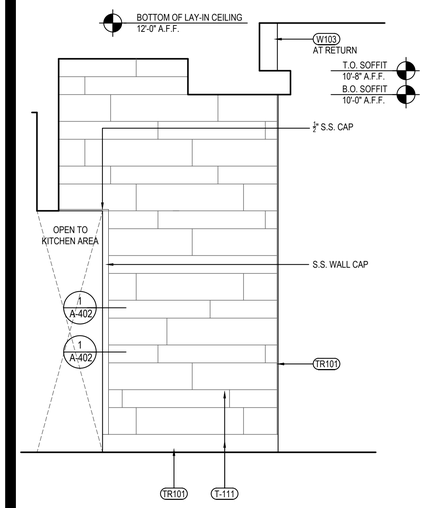
TRUE WARM & WELCOME 2300 R6

NOTES:
1. ALL EXPOSED WALL TILE EDGES MUST BE FINISHED TO MATCH TILE SURFACE. EASE TILE EDGE AS ALLOWABLE.
2. BLINDS SHALL BE PROVIDED BY OWNER AND INSTALLED BY VENDOR. COORDINATE WITH PANDA PROJECT MANAGER PRIOR TO INSTALLATION
3. PROVIDE 1/2" CLEAR PLASTIC CORNER GUARD FOR ALL INTERIOR PAINTED SURFACE W/ CLEAR GLUE.
4. ALL TILES INSTALLED NOT TO BE CUT LESS THAN 1/2 THE TILE WIDTH.
5. REFERENCE SHEET A-103 FOR WALL PANEL SCHEDULE
6. REFERENCE SHEET A-103 FOR SPECIAL SURFACE SCHEDULE
7. REFERENCE SHEET A-103 FOR INTERIOR PAINT SCHEDULE
8. REFERENCE SHEET A-104 FOR TILE SCHEDULE
9. REFERENCE SHEET A-104 FOR EXTENT OF COVE TRIM AT BASE

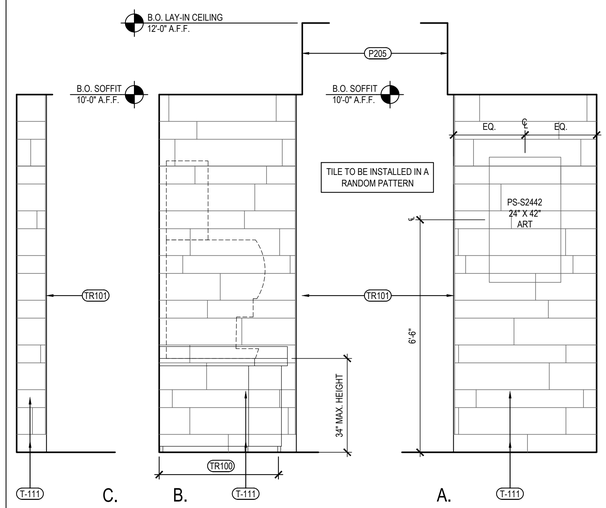
GENERAL DECOR NOTE:
ALL WALL DECORATIONS, PRINT LOCATIONS, ETC. TO BE VERIFIED WITH PANDA EXPRESS BY GC.

GC SHALL PROVIDE/INSTALL ANY CONCEALED BACKING, MISC. HARDWARE NOT PROVIDED BY OWNER, ETC... AS REQUIRED.

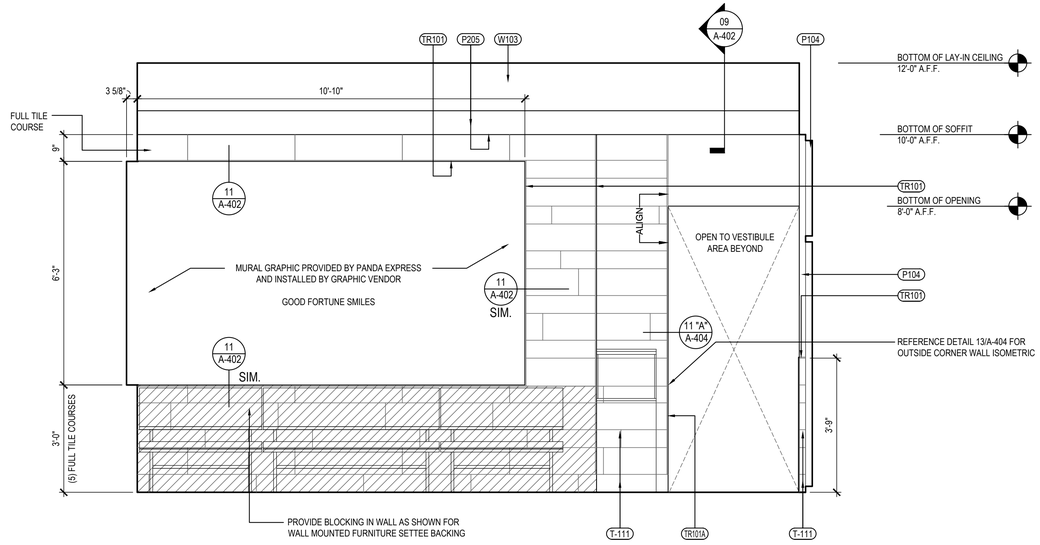
COORDINATE LOCATION OF ALARM DEVICES WITH ARTWORK (IF REQUIRED).



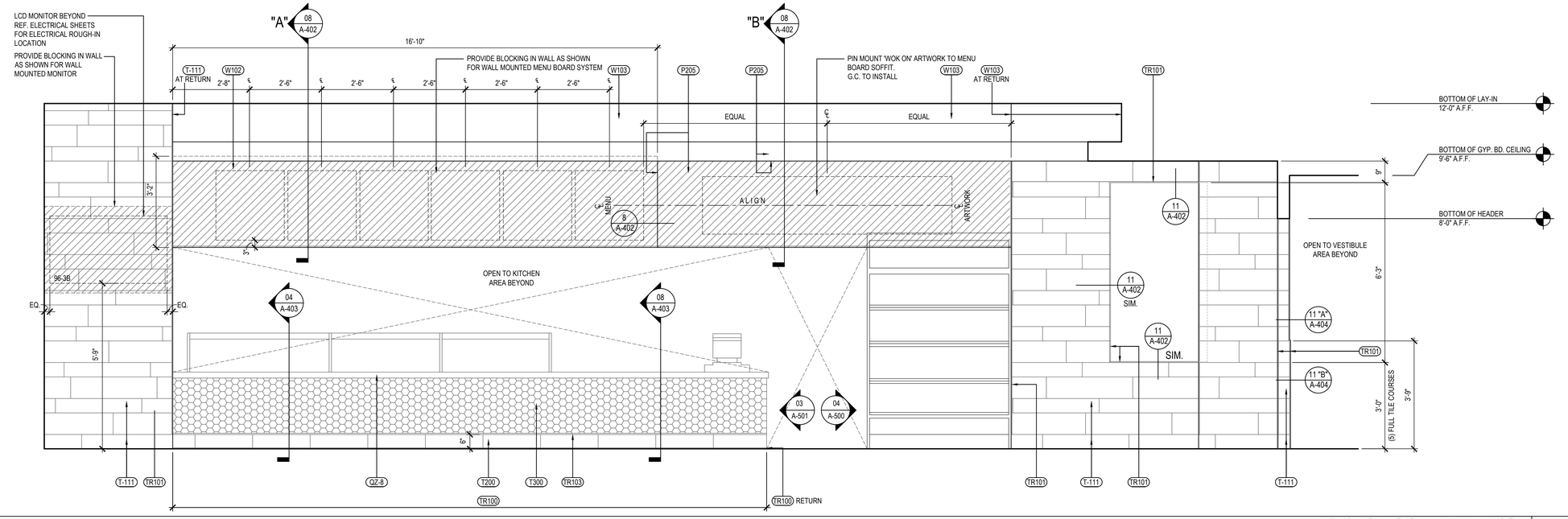

DINING ROOM ELEVATION 4
Scale= 1/2" = 1'-0" A-500




DINING ROOM ELEVATION 3
Scale= 1/2" = 1'-0" A-500




DINING ROOM ELEVATION 2
Scale= 1/2" = 1'-0" A-500




DINING ROOM ELEVATION 1
Scale= 1/2" = 1'-0" A-500


PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
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Rosemead, California
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| 2 | 02.08.22 ISSUE FOR BID |

ISSUE DATE:

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|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

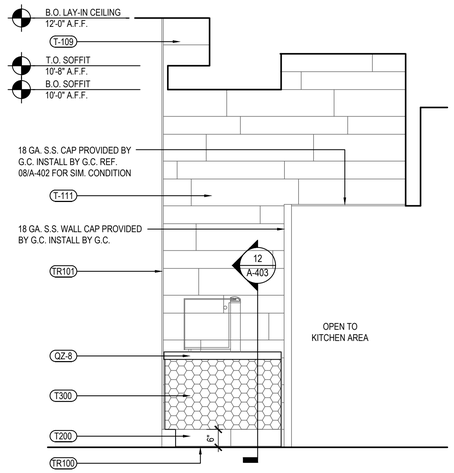
STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. PA15212
REGISTERED ARCHITECT

# PANDA EXPRESS

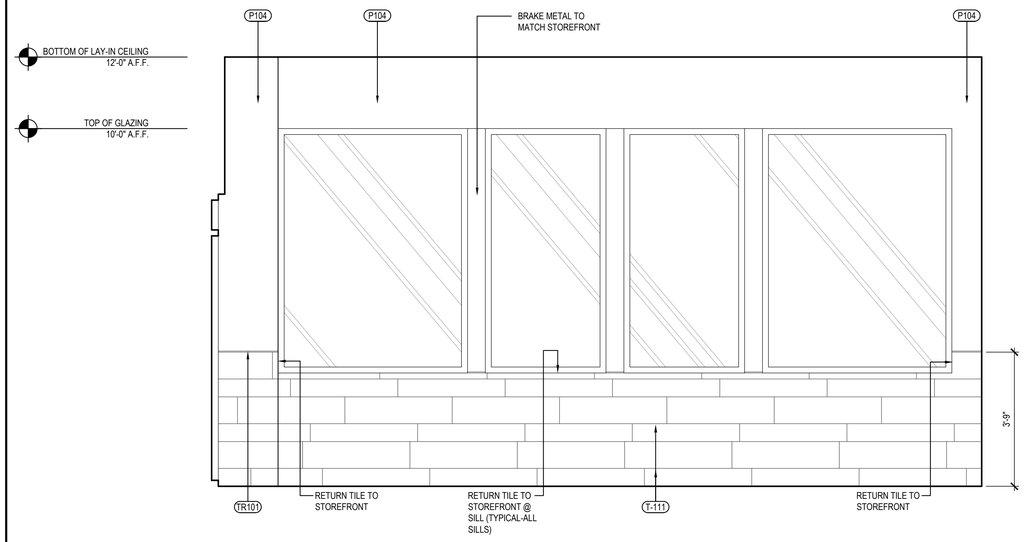
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

A-500
INTERIOR ELEVATIONS

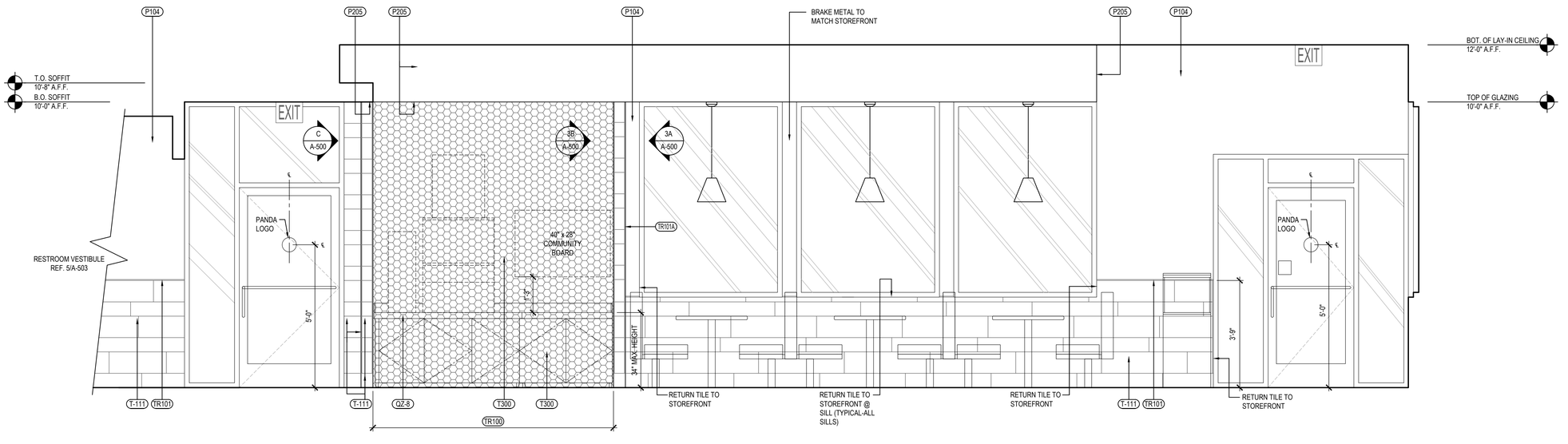
TRUE WARM & WELCOME 2300 R6




SERVICE COUNTER ELEVATION 3
Scale= 1/2" = 1'-0" A-501




DINING ROOM ELEVATION 2
Scale= 1/2" = 1'-0" A-501




DINING ROOM ELEVATION 1
Scale= 1/2" = 1'-0" A-501

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DRAWN BY: JDV

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02.08.2022

STATE OF GEORGIA
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CERTIFICATE NO. PA19212
REGISTERED ARCHITECT

# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

A-501 2
INTERIOR ELEVATIONS

TRUE WARM & WELCOME 2300 R6

1

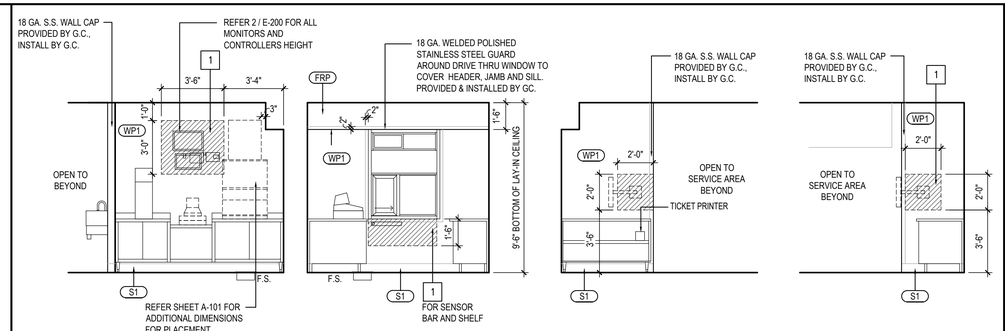
CONCEALED BACKING AS INDICATED BY THE DASHED BOX AREAS AROUND WALL SHELVING, SINK BACKS, ETC. SHALL CONSIST OF THE FOLLOWING:

- BACKING @ ALL RATED WALLS AND WALL UNDER EXHAUST HOOD SHALL CONSIST OF 6" 20 GA. METAL STRAPS INSTALLED PRIOR TO INSTALLATION OF GYP. BOARD @ ALL AREAS REQUIRED FOR FASTENING EQUIPMENT SECURELY TO STUD WALL.

- BACKING @ ALL OTHER WALLS SHALL CONSIST OF 5/8" PLYWOOD SHEATHING BEHIND GYP. BOARD WITHIN DASHED BOX AREAS. FINISH OVER WITH SPECIFIED WALL PANEL FINISH PER KITCHEN ELEVATIONS.

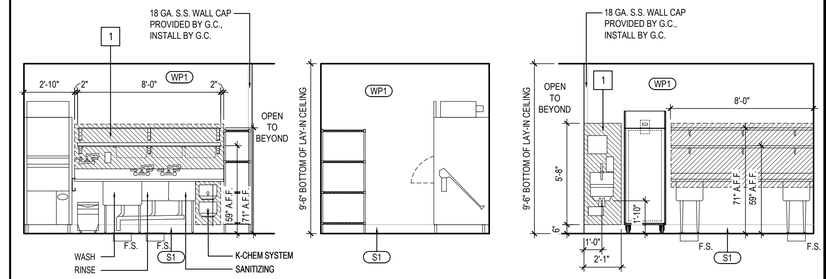
## GENERAL BACKING NOTES 12

Scale= 1/4" = 1'-0" A-502



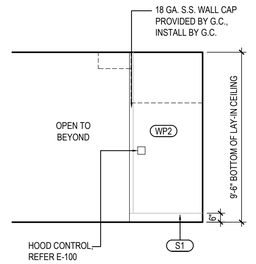

## DRIVE-THRU ELEVATIONS 6

Scale= 1/4" = 1'-0" A-502



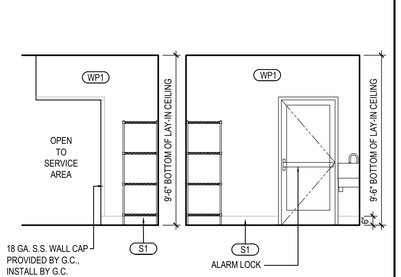

## KITCHEN PREP ELEVATION 5

Scale= 1/4" = 1'-0" A-502




## COOKLINE ELEVATION 9

Scale= 1/4" = 1'-0" A-502




## DRIVE THRU DOOR ELEVATIONS 8

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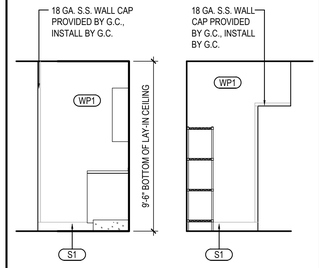
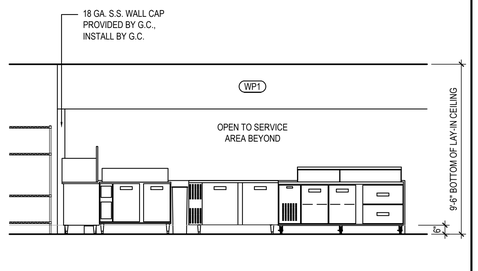


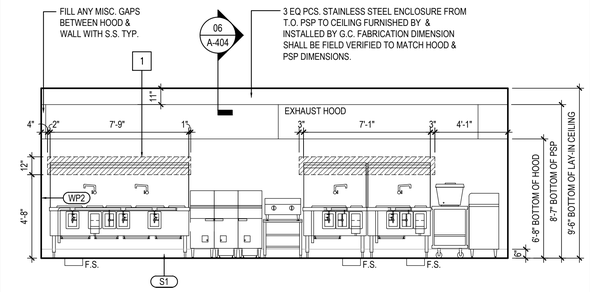

## MANAGER STATION ELEV. 10

Scale= 1/4" = 1'-0" A-502



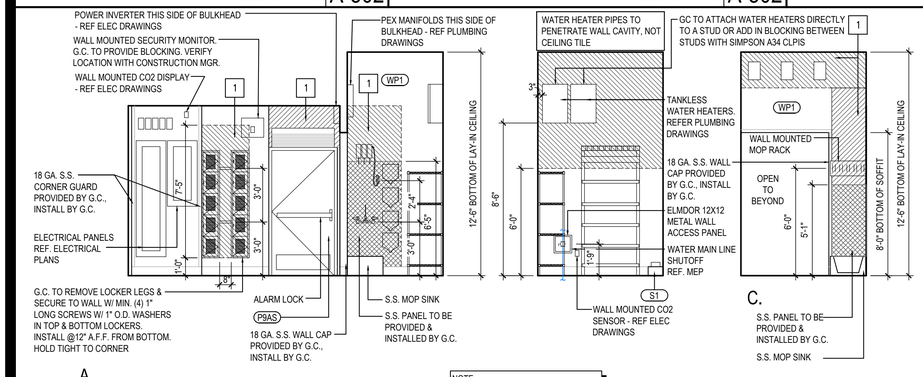

## WALL BEHIND SERVICE 4

Scale= 1/4" = 1'-0" A-502

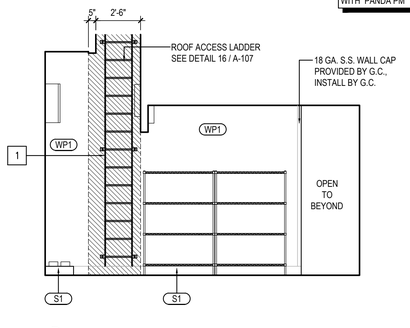


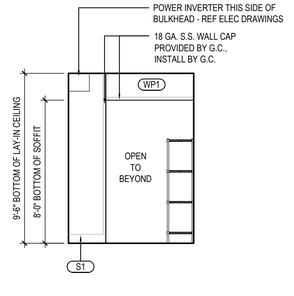

## COOKLINE ELEVATION 3

Scale= 1/4" = 1'-0" A-502



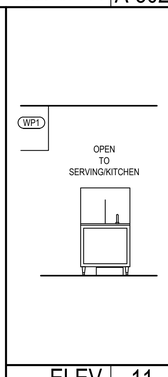

NOTE:
POWER INVERTER AND PEX MANIFOLD LOCATIONS TO BE FIELD VERIFIED WITH PANDA PM



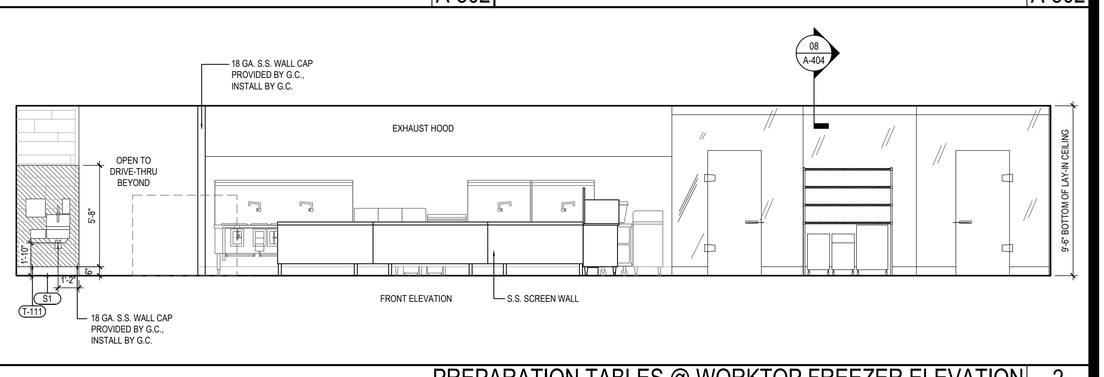

## KITCHEN PREP / MOP SINK ELEVATIONS 7

Scale= 1/4" = 1'-0" A-502



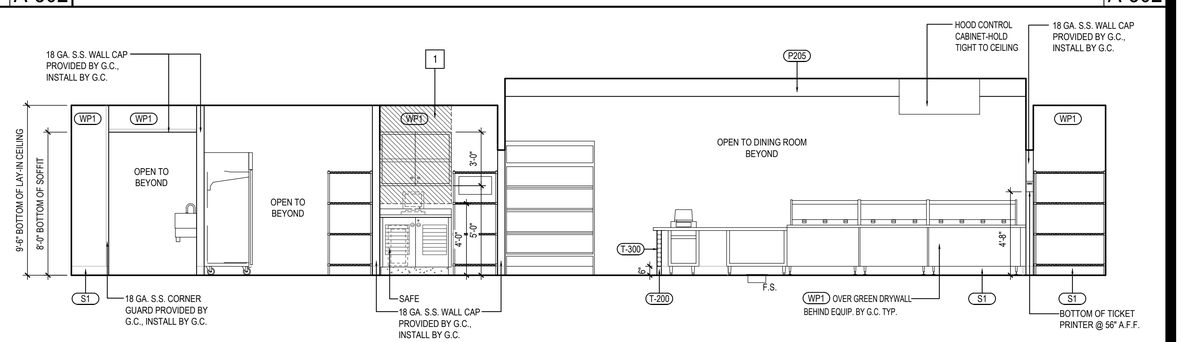

## ELEV. 11

Scale= 1/4" = 1'-0" A-502




## PREPARATION TABLES @ WORKTOP FREEZER ELEVATION 2

Scale= 1/4" = 1'-0" A-502




## REAR SIDE OF SERVICE COUNTER 1

Scale= 1/4" = 1'-0" A-502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| 2 | 02.08.22 ISSUE FOR BID |

ISSUE DATE:

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|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

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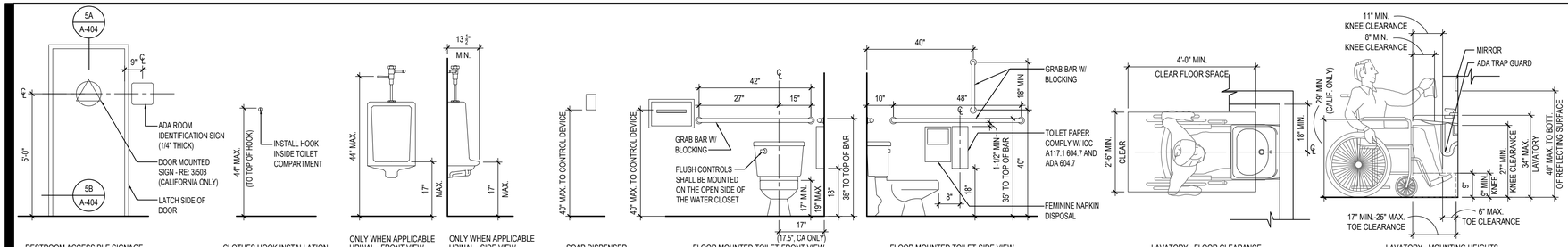
02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA15612
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

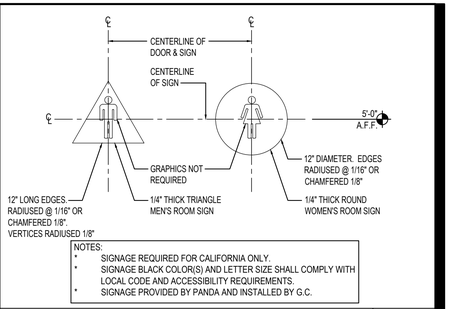
A-502 2
KITCHEN ELEVATIONS




RESTROOM ACCESSIBLE SIGNAGE | CLOTHES HOOK INSTALLATION | ONLY WHEN APPLICABLE URINAL - FRONT VIEW | ONLY WHEN APPLICABLE URINAL - SIDE VIEW | SOAP DISPENSER | FLOOR MOUNTED TOILET-FRONT VIEW | FLOOR MOUNTED TOILET-SIDE VIEW | LAVATORY - FLOOR CLEARANCE | LAVATORY - MOUNTING HEIGHTS

## STANDARD ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES 4

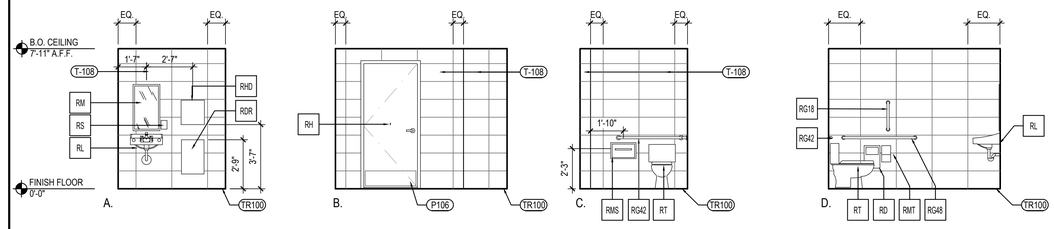
Scale= NTS A-503



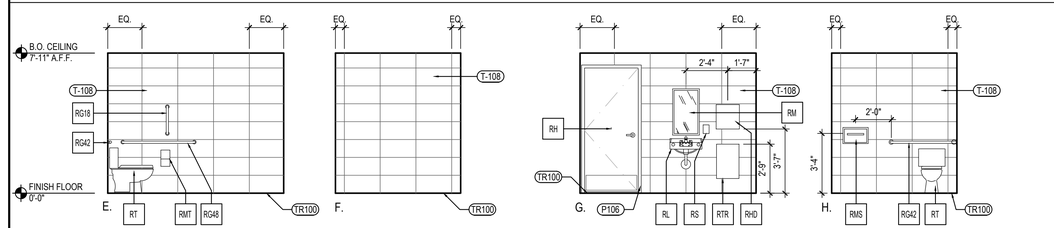

NOTES:
- SIGNAGE REQUIRED FOR CALIFORNIA ONLY.
- SIGNAGE BLACK COLOR(S) AND LETTER SIZE SHALL COMPLY WITH LOCAL CODE AND ACCESSIBILITY REQUIREMENTS.
- SIGNAGE PROVIDED BY PANDA AND INSTALLED BY G.C.

## RESTROOM DOOR SIGNS 3

Scale= 1" = 1'-0" A-503




WOMEN'S RESTROOM



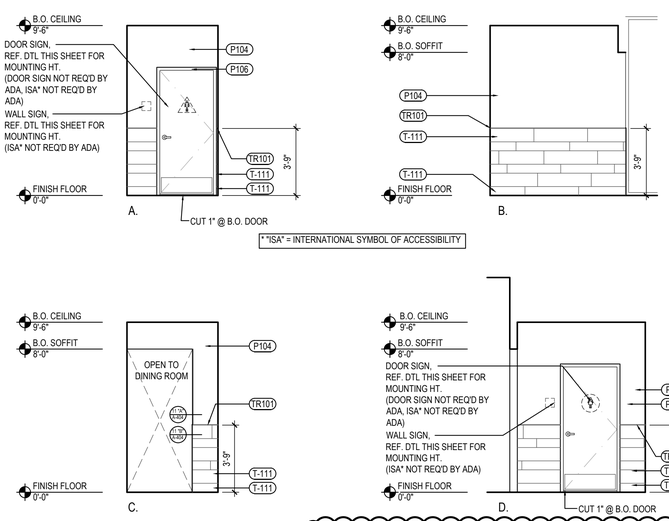

MEN'S RESTROOM

## RESTROOM ELEVATIONS 2

Scale= 1/4" = 1'-0" A-503

## NOT USED 6

Scale= 1" = 1'-0" A-503




* "ISA" = INTERNATIONAL SYMBOL OF ACCESSIBILITY

## TOILET ACCESSORY SCHEDULE

| NO | DESCRIPTION |
|---|---|
| RG42 | BOBRICK GRAB BAR, 42" LONG<br>B-6806 1 1/2", SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY GC |
| RG48 | BOBRICK GRAB BAR, 48" LONG<br>B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY GC |
| RG18 | BOBRICK GRAB BAR, 18" LONG<br>B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY GC |
| RM | BOBRICK CHANNEL FRAME MIRROR<br>B-165 (1836) 18"X36" STAINLESS STEEL CHANNEL FRAME<br>FURNISHED BY LOCKNET, INSTALLED BY GC<br>MOUNT 40" MAX TO BOTTOM OF REFLECTING SURFACE |
| RS | SOAP DISPENSER<br>(BY VENDOR) |
| RMS | BOBRICK SEAT COVER DISPENSER<br>B-221 STAINLESS STEEL, SATIN FINISH<br>FURNISHED BY LOCKNET, INSTALLED BY GC |
| RTR | BOBRICK SURFACE MOUNTED TRASH RECEPTACLE<br>MODEL # B-277; FURNISHED BY LOCKNET, INSTALLED BY GC. |
| RHD | PAPER TOWEL DISPENSER<br>FURNISHED BY PANDA EXPRESS, INSTALLED BY GC. |
| RMT | BOBRICK MUTI-ROLL TOILET TISSUE DISPENSER<br>B-2888 STAINLESS STEEL, SATIN FINISH<br>FURNISHED BY LOCKNET, INSTALLED BY GC. |
| RT | AMERICAN STANDARD CADET RIGHT HEIGHT ELONGATED TOILET<br>2467.016 TLT, 4142.600 TANK, AMERICAN STANDARD #5901.100.020 SEAT,<br>COLOR: WHITE. TRIP TO BE ON OPEN SIDE.<br>FURNISHED AND INSTALLED BY GC. |
| RL | ZURN WALL HUNG LAVATORY Z5344, 20" X 18" VITREOUS CHINA, WITH<br>4" CENTER FAUCET HOLES & ZURN Z-1231 CONCEALED ARM CARRIER<br>FURNISHED AND INSTALLED BY GC. |
| RD | BOBRICK SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL<br>B-254 STAINLESS STEEL, SATIN FINISH<br>FURNISHED BY LOCKNET, INSTALLED BY GC. |
| RH | BOBRICK SURFACE-MOUNTED CLOTHES HOOK AND BUMPER<br>B-233 SOLID ALUMINUM CASTING, MATTE FINISH,<br>INSIDE OF RESTROOM DOORS<br>FURNISHED BY LOCKNET, INSTALLED BY GC. |

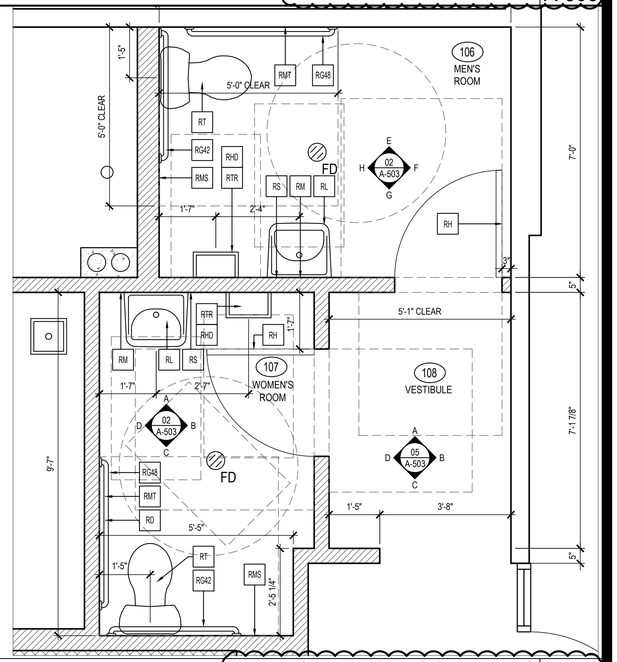
NOTE: INSULATE ALL PIPES (TRAP & HOT WATER) AT ACCESSIBLE LAVATORIES

## RESTROOM VESTIBULE ELEVATIONS 5

Scale= 1/4" = 1'-0" A-503

## NOT USED 7

Scale= 1" = 1'-0" A-503




## ENLARGED RESTROOM PLANS 1

Scale= 1/2" = 1'-0" A-503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91770
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REVISIONS:

| | |
|---|---|
| 2 | 02.08.22 ISSUE FOR BID |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JDV

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

STATE OF GEORGIA
ROBERT S DAY
CERTIFICATE NO. RA19212
REGISTERED ARCHITECT

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# A-503

ENLARGED RESTROOM PLANS AND ELEVATIONS

TRUE WARM & WELCOME 2300 R6

# STRUCTURAL NOTES

GENERAL

1. THIS PROJECT SHALL MEET ALL REQUIREMENTS OF THE 2015 INTERNATIONAL BUILDING CODE.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL OPENINGS (COORDINATE WITH APPLICABLE TRADES). THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK.
4. COMPLETE SHOP DRAWINGS AS REQUIRED FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH REVIEW BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK. ALLOW TEN (10) BUSINESS DAYS FOR REVIEW FROM THE TIME SUBMITTALS ARE RECEIVED IN OUR OFFICE.
5. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
6. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
7. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.

SPECIAL INSPECTION

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION:
(REFERENCE ADJACENT TABLES FOR ADDITIONAL INFORMATION.)

1. SOILS AND FOUNDATIONS
2. CAST-IN-PLACE CONCRETE
3. WOOD CONSTRUCTION
4. SPECIAL CASES (EPOXY ANCHORS)

DESIGN LOADS

1. ROOF LIVE LOAD 20 PSF
2. ROOF DEAD LOAD 20 PSF
3. WIND LOAD BASED ON ASCE 7-10
   $V_{ULT}$ = 106MPH
   $V_{ASD}$ = 85 MPH
   RISK CATEGORY = II
   EXPOSURE CATEGORY B
   INTERNAL PRESSURE COEFFICIENT $GC_{pi}$: ±0.18

**Ultimate Design Wind Pressure (psf):**

| | | | Effective Wind Area (sq ft) | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Walls:** | | | **10** | **20** | **50** | **100** | **200** | **500** |
| Interior | Zone 4 | + | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | | - | -16.9 | -16.2 | -16.0 | -16.0 | -16.0 | -16.0 |
| Edge | Zone 5 | + | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | | - | -20.8 | -19.4 | -17.6 | -16.2 | -16.0 | -16.0 |
| **Roof:** | | | **10** | **20** | **50** | **100** | **200** | **500** |
| Interior | Zone 1 | + | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | | - | -27.1 | -25.3 | -23.0 | -21.2 | -19.4 | -17.0 |
| Interior | Zone 1' | + | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | | - | -16.0 | -16.0 | -16.0 | -16.0 | -16.0 | -16.0 |
| Edge | Zone 2 | + | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | | - | -35.8 | -33.5 | -30.4 | -28.1 | -25.8 | -22.8 |
| Corner | Zone 3 | + | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | | - | -35.8 | -33.5 | -30.4 | -28.1 | -25.8 | -22.8 |
| **Overhang:** | | | **10** | **20** | **50** | **100** | **200** | **500** |
| Edge | Zone 2 | + | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | | - | -33.2 | -30.1 | -26.0 | -23.0 | -19.9 | -16.0 |
| Corner | Zone 3 | + | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | | - | -46.1 | -40.8 | -33.7 | -28.3 | -23.0 | -16.0 |

**Parapet Ultimate Design Pressure (psf):**

| | | | Effective Wind Area (sq ft) | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parapet:** | | | **10** | **20** | **50** | **100** | **200** | **500** |
| Edge | Zone 2 | + | 57.8 | 54.0 | 49.1 | 45.3 | 41.6 | 36.7 |
| | | - | -34.1 | -32.4 | -30.1 | -28.4 | -26.7 | -24.4 |
| Corner | Zone 3 | + | 57.8 | 54.0 | 49.1 | 45.3 | 41.6 | 36.7 |
| | | - | -39.0 | -36.4 | -33.0 | -30.4 | -27.8 | -24.4 |

WIDTH OF PRESSURE ZONE A = 5.0 ft

4. SEISMIC LOADS
   $S_S$ = 0.18
   $S_1$ = 0.082
   SITE CLASS D
   $S_{DS}$ = 0.192
   $S_{D1}$ = 0.131
   DESIGN CATEGORY B
   DESIGN BASE SHEAR = 2.7 KIPS
   BASIC SEISMIC FORCE RESISTING SYSTEM = LIGHT FRAMED WOOD WALLS SHEATHED WITH WOOD SHEATHING PANELS RATED FOR SHEAR RESISTANCE.
5. SNOW LOADS
   GROUND SNOW Pg = 5 PSF
   MIN. FLAT ROOF SNOW Pf = 5 PSF
   SNOW DRIFT - REF 3/S101
   RAIN ON SNOW Pr = 5 PSF
   $C_e$ = 1.0
   I = 1.0
   Ct = 1.0
6. SEE ROOF PLAN FOR ADDITIONAL MECHANICAL LOADS.

FOUNDATION DESIGN AND SITEWORK FOR BUILDING

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT, "GEOTECHNICAL ENGINEERING REPORT: PANDA EXPRESS COVINGTON: S8-22-D8518 COVINGTON, NEWBERRY COUNTY, GEORGIA" BY TERRACON CONSULTANTS, INC (TERRACON PROJECT #49215136) DATED JUNE 14, 2021. CONTRACTOR SHALL OBTAIN A COPY OF THE SOILS REPORT AND ADHERE TO ALL RECOMMENDATIONS WITHIN, INCLUDING PREPARATION OF THE BUILDING PAD.
2. FOUNDATION DESIGN AND SITEWORK SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE. A WRITTEN VERIFICATION SIGNED AND SEALED BY A GEOTECHNICAL ENGINEER SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD STATING THAT THE BEARING ELEVATIONS EXPOSED AFTER SITE STRIPPING HAVE BEEN INSPECTED AND ARE ADEQUATE TO SUPPORT A MINIMUM OF 1500 PSF (ALLOWABLE SOIL BEARING CAPACITY) AND THE SOILS SUPPORTING THE SLAB-ON-GRADE ARE ADEQUATE TO MINIMIZE DIFFERENTIAL MOVEMENT TO LESS THAN ½" AND TOTAL MOVEMENT TO LESS THAN 1".
3. REMOVE ALL VEGETATION AND DEBRIS, INCLUDING PAVEMENTS, SIDEWALKS, BUILDING FOUNDATIONS, AND ABANDONED UTILITIES.
4. REMOVE ORGANIC SOIL TO A DEPTH OF ±6 INCHES.
5. PROOFROLL THE EXPOSED SUBGRADE TO DETECT SOFT OR YIELDING SOILS. REMOVE ANY SOFT OR YIELDING SOILS, SCARIFY, MOISTURE CONDITION AND RECOMPACT IN ACCORDANCE WITH ASTM D-698.
6. SOILS EXCAVATED FROM THE SITE THAT ARE FREE OF DELETERIOUS MATERIALS MAY BE USED AS FILL.
7. RAISE EXCAVATIONS AND LOW AREAS WITH COMPACTED FILL (ASTM D-698).
8. STRUCTURAL FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698. THE IN-PLACE MOISTURE CONTENT FOR COHESIVE SOILS SHALL NOT VARY BY MORE THAN -1% TO +3% AND GRANULAR SOIL ±3% OF THE OPTIMUM MOISTURE CONTENT.
9. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 1,500 PSF AT MINIMUM 18" INTO SUITABLE EXISTING SOILS. MINIMUM CONTINUOUS FOOTING WIDTH IS 18 INCHES. MINIMUM FOOTING DEPTH IS 18" BELOW GRADE.
10. PROVIDE POSITIVE DRAINAGE AWAY FROM EXCAVATIONS SO AS NOT TO ALLOW STANDING WATER FOR LONG PERIODS OF TIME.
11. PROVIDE A 6 MIL THICK VAPOR BARRIER BETWEEN THE COMPACTED BASE AND CONCRETE SLAB.
12. DO NOT PUNCTURE THE VAPOR BARRIER. LAP AND TAPE ENDS.
13. BACKFILL AND COMPACT UTILITY TRENCHES AS DESCRIBED ABOVE.
14. PERFORM ALL SITEWORK UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER.

CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS, (U.N.O.).
2. MINIMUM CEMENT CONTENT SHALL BE 5 SACKS PER CUBIC YARD.
3. TYPE C OR F FLY ASH MAY BE USED UP TO 20% OF TOTAL CEMENT CONTENT BY VOLUME. THIS IS ONLY FOR CONCRETE SPECIFIED IN THESE STRUCTURAL DRAWINGS. REFER TO SPECIFICATIONS BY OTHER DISCIPLINES.
4. MAXIMUM SLUMP SHALL BE 5 IN., U.N.O.
5. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 301.
6. CONCRETE MIX SHALL NOT USE ANY ADMIXTURES WHICH CONTAIN CALCIUM CHLORIDE.
7. CONCRETE TEST REPORTS SHALL BE MADE AVAILABLE AT THE JOB SITE. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN PER SPECIFICATIONS PRIOR TO PLACEMENT CONCRETE.

REINFORCING STEEL

1. BARS SHALL BE ASTM A615, GRADE 60.
2. DETAIL, FABRICATE, AND PLACE IN CONFORMANCE WITH ACI 315 AND 318.
3. LAP ALL REINFORCING STEEL 40 BAR DIAMETERS (U.N.O.).
4. LAP CONTINUOUS BARS IN GRADE BEAMS 40 BAR DIAMETERS (U.N.O. ON DRAWINGS). TOP BARS TO BE SPLICED BETWEEN SUPPORTS AND BOTTOM BARS TO BE SPLICED AT SUPPORTS, AS APPLICABLE.
5. PROVIDE ACCESSORIES FOR SUPPORT OF ALL REINFORCING.
6. SUBMIT SHOP DRAWINGS SHOWING ALL REINFORCING FOR APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
7. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

| | MINIMUM COVER, IN. |
|---|---|
| A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3 |
| B. CONCRETE EXPOSED TO EARTH OR WEATHER: | |
| #6 THROUGH #18 BAR | 2 |
| #5 BAR, W31 OR D31 WIRE, AND SMALLER | 1½ |
| C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: | |
| SLABS, WALLS, JOISTS: | |
| #14 AND #18 BARS | 1½ |
| #11 BAR AND SMALLER | ¾ |
| BEAMS, COLUMNS: | |
| PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS | 1½ |

CONCRETE MASONRY UNITS

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, TYPE 1, WITH COMPRESSIVE STRENGTH (f'm) OF 1,500 PSI
2. GROUT FOR CONCRETE MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI
3. MORTAR SHALL BE TYPE N, U.N.O.
4. REINFORCING IN MASONRY WALLS SHALL BE GRADE 60, ASTM A615.
5. TYPICAL REINFORCING:
   VERTICAL - REF. PLAN FOR SIZE AND SPACING
   HORIZONTAL - #9 WIRE IN DUR-O-WALL (LADUR TRUSS TYPE) OR APPROVED EQUAL AT 16" O.C. IN MASONRY WALLS, EXCEPT AT 8" O.C. FOR WALL BELOW GRADE OR STACK BOND WALLS (U.N.O. ON DRAWINGS).
6. MATERIALS AND WORKMANSHIP SHALL CONFORM TO DESIGN REQUIREMENTS BASED UPON THE AMERICAN CONCRETE INSTITUTES "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530.

POST-INSTALLED ANCHORS

1. EXCEPT WHERE NOTED ON DRAWINGS, USE WWW.STRONGTIE.COM FOR ADDITIONAL PRODUCT DATA. IT IS ACCEPTABLE TO USE THE SIMPSON SET-XP ADHESIVE SYSTEM OR APPROVED EQUAL (TYP., U.N.O.) ICC ESR-2508.
2. EXCEPT WHERE INDICATED ON THE DRAWINGS, HILTI PRODUCTS MAY BE USED. CONTACT HILTI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.
3. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
4. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
5. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS. THREADED ROD AND REBAR DIAMETERS AND EMBEDMENT LENGTHS SHALL BE AS NOTED ON DRAWINGS.
6. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING PRODUCTS WHICH HAVE SPECIFIC APPLICATIONS THAT ARE INTENDED FOR OVERHEAD USE.
7. RECOMMENDED FOR CONTRACTOR TO ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED.
8. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
9. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.
10. CONTRACTOR SHALL USE THE NECESSARY MEANS, AS REQUIRED BY OSHA TO PROTECT FROM DUST DRILLING OPERATIONS.

LIGHT GAGE METAL FRAMING

1. STEEL STUD SIZES SHALL BE AS NOTED ON THE DRAWINGS, CONFORMING TO SSMA STANDARDS.
2. FABRICATE AND ERECT AS SPECIFIED. MANUFACTURER SHALL SUPPLY ALL CLIPS, FASTENERS, TEMPORARY BRACING, ACCESSORIES, STANDARD BRIDGING, ETC.
3. ALL STEEL STUDS SHALL HAVE A MINIMUM 1⅜" FLANGE WITH A ½" RETURN (U.N.O.).
4. ALL STUDS 18 GAGE AND THINNER SHALL HAVE A MINIMUM YIELD STRENGTH, $F_y$, OF 33 KSI AND TENSILE STRENGTH, $F_u$, OF 45 KSI. ALL STUDS 16 GAGE AND THICKER SHALL HAVE A MINIMUM STRENGTH OF 50 KSI AND TENSILE STRENGTH OF 65 KSI (U.N.O.).
5. TRACK SECTIONS SHALL BE EQUAL GRADE AND GAGE THICKNESS OF STUDS BEING USED. TYPICAL, U.N.O.
6. ALL FASTENERS SHALL BE SELF-TAPPING NO. 12-14 GAGE SCREWS, OR WELD IN ACCORDANCE WITH SECTION 6.0 OF THE AMERICAN WELDING SOCIETY'S "STRUCTURAL WELDING CODE - SHEET METAL" (AWS D1.3) AS SHOWN ON DRAWINGS.

STRUCTURAL WOOD

1. WOOD FRAMING SHALL COMPLY WITH THE SOUTHERN PINE INSPECTION BUREAU, OR SHALL CONFORM TO SPECIFICATIONS AS PUBLISHED BY THE WESTERN WOODS PRODUCTS ASSOCIATION.
2. WOOD FRAMING 2 INCHES X 4 INCHES AND LARGER SHALL BE NO. 2 SOUTHERN PINE, NO. 2 DOUGLAS FIR LARCH, OR EQUIVALENT (U.N.O.).
3. WOOD COLUMNS 6 INCHES X 6 INCHES AND LARGER SHALL BE NO. 1 SOUTHERN PINE, NO. 1 DOUGLAS FIR LARCH, OR EQUIVALENT.
4. ALL EXPOSED WOOD FRAMING, UNLESS NOTED OTHERWISE, SHALL BE "SELECT" GRADE LUMBER.
5. ALL PLATES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED (USE CATEGORY 2 AS SPECIFIED BY AWPA) FOR MOISTURE PROTECTION. ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED (USE CATEGORY 3B AS SPECIFIED BY AWPA) OR WESTERN RED CEDAR.
6. ALL MULTIPLE PIECE WOOD BEAMS AND COLUMNS TO BE CONNECTED TOGETHER WITH (3) ROWS OF 16d NAILS @ 12" OC UNLESS NOTED OTHERWISE.
7. ENGINEERED WOOD PRODUCTS
   A. SIZES AND DESIGNATIONS ARE BASED ON PUBLISHED REDBUILT MEMBERS AS MANUFACTURED BY REDBUILT (FORMERLY THE COMMERCIAL DIVISION OF TRUS JOIST).
   B. OTHER WOOD MEMBERS WILL BE PERMITTED WHERE LOAD CAPACITIES ARE EQUIVALENT AND SUBSTANTIATED BY PUBLISHED LOAD TABLES.
   C. FABRICATOR SHALL SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF MEMBERS, BRIDGING, BRACING, ERECTION DETAILS, TRUSS PENETRATIONS, AND DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER (in the project state).
   D. LAMINATED VENEER LUMBER (LVL):
      a. ALL LAMINATED VENEER LUMBER SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS SET FORTH IN THE NER-126 REPORT.
      b. ALLOWABLE UNIT STRESSES REQUIRED FOR DRY CONDITIONS OF USE FOR VENEER LAMINATED LUMBER SHALL BE AS FOLLOWS:

| | |
|---|---|
| 1. BENDING | 2600 PSI |
| 2. COMPRESSION PARALLEL TO GRAIN | 2460 PSI |
| 3. HORIZONTAL SHEAR | 285 PSI |
| 4. COMPRESSION PERPENDICULAR TO GRAIN | 750 PSI |
| 5. MODULUS OF ELASTICITY | 2,000,000 PSI |

      6. LAMINATED VENEER LUMBER MEMBER SIZES SHOWN ARE NET; OTHER MAMBER SIZES ARE NOMINAL.
8. METAL-PLATE-CONNECTED WOOD TRUSSES
   A. TRUSS FABRICATION AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING STANDARDS:
      a. ANSI / TPI 1- 2014- NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION
      b. BCSI-B1: GUIDE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF TRUSSES
      c. BCSI-B2: TRUSS INSTALLATION & TEMPORARY RESTRAINT/ BRACING
      d. BCSI-B3: PERMANT RESTRAINT/BRACING OF CHORDS & WEB MEMBERS
   B. TRUSSES SHALL BE DESIGNED FOR THE LOADS AS SHOWN ON 3/S101.
      a. ADDITIONAL MECHANICAL LOADS SHALL BE APPLIED TO THEIR RESPECTIVE CHORD MEMBER AS NOTED ON THE FLOOR/ROOF PLAN
      b. SNOW DRIFT LOADS AND UNBALANCED ROOF SNOW LOADS AS INDICATED (WHERE APPLICABLE)
      c. REQUIRED UPLIFT FOR COMPONENTS AND CLADDING LOADS AS INDICATED IN THE DESIGN LOADS SECTION OF THESE STRUCTURAL NOTES
      d. ALLOWABLE VERTICAL DEFLECTION LIMITS: DEAD + LIVE: L/180
         LIVE: L/240
      e. TRUSS CAMBER: TO BE PROVIDED BY THE TRUSS DESIGNER AS REQUIRED TO MEET SERVICEABILITY LIMITS UNLESS SPECIFICALLY NOTED BY THE BUILDING DESIGNER
   C. ALL TRUSS-TO-TRUSS CONNECTORS SHALL BE SPECIFIED BY THE TRUSS DESIGNER. TRUSS-TO-STRUCTURAL ELEMENT CONNECTIONS SHALL BE SPECIFIED BY THE BUILDING DESIGNER, UNLESS SPECIFICALLY NOTED.
   D. PERMANENT MEMBER RESTRAINT/ BRACING OF TRUSS SYSTEM SHALL BE SPECIFIED BY THE TRUSS DESIGNER. TRUSS DESIGNER IS PERMITTED TO SUBSTITUTE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT WITH REINFORCEMENT DESIGNED TO PREVENT BUCKLING. IF SPECIFIC TRUSS MEMBER PERMANENT RESTRAINT DESIGN IS NOT PROVIDED, THE METHOD OF PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT AND DIAGONAL BRACING FOR THE TRUSS TOP CHORD, BOTTOM CHORD, AND WEB MEMBERS SHALL BE IN ACCORDANCE WITH BCSI-B3 OR BCSI-B7
   E. A "TRUSS SUBMITTAL PACKAGE" AS DEFINED BY ANSI/ TPI-1, SHALL BE SUBMITTED TO THE BUILDING DESIGNER FOR REVIEW FOR COMPATIBILITY WITH THE BUILDING DESIGN. THE TRUSS SUBMITTAL PACKAGE SHALL INCLUDE; INDIVIDUAL TRUSS DESIGN DRAWINGS, THE TRUSS PLACEMENT DIAGRAM (INCLUDING TRUSS BRIDGING LAYOUT), THE COVER/TRUSS INDEX SHEET, LATERAL RESTRAINT AND DIAGONAL BRACING DETAILS DESIGNED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE, APPLICABLE BCSI-DEFINED LATERAL RESTRAINT AND DIAGONAL BRACING DETAILS AND ANY OTHER STRUCTURAL DETAILS GERMANE TO THE TRUSSES. EACH INDIVIDUAL TRUSS DESIGN DRAWING, OR COVER/TRUSS IN SHEET IF USED, SHALL BEAR THE SEAL AND SIGNATURE OF THE TRUSS DESIGNER REGISTERED IN THE PROJECT STATE.
   F. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE "REQUIREMENTS OF THE CONTRACTOR" AS DEFINED BY ANSI/TPI 1.
9. ROOF DECK
   A. ALL ROOF DECK SHALL BE APA RATED GRADE PLYWOOD OR OSB (ORIENTED STRAND BOARD). STRUCTURAL I GRADES MAY HAVE EITHER AN EXTERIOR OR EXPOSURE I DESIGNATION (U.N.O.).
   B. ROOF SHEATHING SHALL BE $^{23}/_{32}$ INCH THICK MINIMUM (48/24) U.N.O.
   C. USE 4' x 8' SIZE PLYWOOD.
   D. STAGGER ENDS OF SHEETS.
   E. PROVIDE BLOCKING AT EDGES OF ALL ROOF SHEETS. PLYWOOD CLIPS MAY BE USED AT ROOF INSTEAD OF BLOCKING, UNLESS BLOCKING REQUIRED FOR NAILING.
   F. NAIL EDGES OF ROOF SHEETS AT 6 IN. O.C. MAXIMUM (U.N.O.).
   G. NAIL FACES OF ROOF SHEETS AT 12 IN. O.C. MAXIMUM.
   H. USE MINIMUM 10d COMMON NAILS (U.N.O.).
10. WALL SHEATHING
    A. ALL WALL SHEATHING SHALL BE APA RATED GRADE PLYWOOD OR OSB (ORIENTED STRAND BOARD). STRUCTURAL I GRADES MAY HAVE EITHER AN EXTERIOR OR EXPOSURE I DESIGNATION (U.N.O.).
    B. WALL SHEATHING SHALL BE $^{15}/_{32}$ INCH THICK MINIMUM (32/16) U.N.O.
    C. STAGGER ENDS OF SHEETS.
    D. PROVIDE BLOCKING AT EDGES OF ALL SHEARWALL SHEETS.
    E. NAIL EDGES OF SHEARWALL SHEETS PER SCHEDULE ON PLAN (OTHER WALLS AT 6 IN. O.C. MAXIMUM).
    F. NAIL FACES OF WALL SHEETS AT 12 IN. O.C. MAXIMUM.
    G. USE MINIMUM 10d COMMON NAILS (U.N.O.).
11. CONNECTORS SHALL BE AS MANUFACTURED BY THE SIMPSON CO. OR APPROVED EQUAL. CONNECTORS USED WITH PRESSURE TREATED LUMBER OR IN UNCONDITIONED SPACE, SHALL HAVE THE ZMAX (G185) COATING. ALL NAILS USED FOR CONNECTORS SHALL MATCH THOSE SPECIFIED BY THE SUPPLIER'S PRODUCT CATALOG.
12. NAILING, UNLESS NOTED OTHERWISE, SHALL BE PER THE 2015 INTERNATIONAL BUILDING CODE.
13. ALL REFERENCES TO NAILS ON THE STRUCTURAL DRAWINGS ARE BASED ON COMMON WIRE NAILS (U.N.O.) WITH THE FOLLOWING DIMENSIONS, TYPICAL, U.N.O.
    8d COMMON: 0.131" DIA. X 2½" LONG
    10d COMMON: 0.148" DIA. X 3" LONG
    16d COMMON: 0.162" DIA. X 3½" LONG
    POWER AUTOMATED NAIL GUNS SHALL USE NAILS TO MATCH THE ABOVE NAILS AS SPECIFIED.

## Statement of Special Inspections

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- ☒ Soils and Foundations
- ☒ Cast-in-Place Concrete
- ☐ Masonry
- ☐ Structural Steel
- ☒ Wood Construction
- ☒ Special Cases

### General Notes

**Monitoring: Periodic (P) Continuous (C)**

The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work. *C*

The qualifications of all personnel performing Special Inspections and testing activities are subject to the approval of the Building Official and E.O.R. The credentials of all inspectors and testing technicians shall be provided if requested.

The special inspectors shall keep records of inspections and shall furnish inspection reports to the owner, Engineer of Record (E.O.R.) and Architect of Record (A.O.R.). Field and testing result reports shall be submitted to all designated parties as they are completed. The reports shall indicate that the work performed was done in accordance to the construction drawings. Discrepancies shall be brought to the attention of the general contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the E.O.R. prior to completion of that phase of work. A final report that documents required special inspections and corrections of discrepancies shall be submitted by the General Contractor to the Owner, E.O.R. and A.O.R.

### Soils and Foundations

| Item | Scope | |
|---|---|---|
| 1. Shallow Foundations | *Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.*<br>*Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill.* | |
| 2. Controlled Structural Fill | *Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.*<br>*Inspect placement, lift thickness and compaction of controlled fill.*<br>*Test density of each lift of fill by nuclear methods (ASTM D2922)*<br>*Verify extent and slope of fill placement.* | |

Note:
1. Special Inspection is not required during placement of controlled fill having a total depth of 12 inches or less.

### Wood Construction

| Item | Scope | Monitoring: Periodic (P) Continuous (C) |
|---|---|---|
| 1. Fabricator Certification/ Quality Control Procedures ☐ Fabricator Exempt | *Inspect shop fabrication and quality control procedures for wood truss plant.*<br>*Confirm certification of supplier.* | *P* |
| 2. Material Grading | *Inspect grade stamps on structural lumber for compliance with the contract documents.* | *P* |
| 3. Connections | *Verify connection hardware and its installation. Inspect bearing, nails, bolts, hangers or clips, or other devices are tight and otherwise properly installed per the contract documents.* | *C* |
| 4. Framing and Details | *Inspect members for size and placement for conformance to the SER approval submittals and contract document. Review engineered joist shop drawings. Submit to SER for review.* | *P* |
| 5. Diaphragms & Shearwalls | *Inspect thickness and grade of plywood (or OSB), blocking, placement, embedment, size of hold down anchors and the edge and field nailing of the plywood (or OSB) to the framing for conformance to the contract documents.* | *C* |
| 6. Prefabricated Wood Trusses | *Inspect the fabrication of wood trusses. Bottom chord splices are prohibited in the middle third point of the truss.* | *P* |
| 7. Permanent Truss Bracing | *Bridging and bracing installed per the approved truss shop drawings.* | *P* |

### Special Cases

| Item | Scope | Monitoring: Periodic (P) Continuous (C) |
|---|---|---|
| Epoxy Anchors in Concrete or CMU | *Review anchors and product being used for conformance to contract documents. Observe installation for compliance to manufacturers specifications. Perform pull test to 125% of allowable design load per manufacturer specifications. (Minimum of 10% of total anchors, to include a minimum of one of each type, size or embedment.)* | *C* |

### Cast-in-Place Concrete

| Item | Scope | Monitoring: Periodic (P) Continuous (C) |
|---|---|---|
| 1. Mix Design | *Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design. Submit proposed mix design of each class of concrete to Structural Engineer of Record and to inspection and testing firm for review prior to commencement of work.* | *P* |
| 2. Material Certification | *Review for conformance to contract documents. Submit to Structural Engineer of Record for review.* | *P* |
| 3. Anchor Rods | *Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.* | *C* |
| 4. Concrete Placement | *Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.* | *C* |
| 5. Sampling and Testing of Concrete | *Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064). Three concrete test cylinders will be taken for every 75 or less cubic yards of each class of concrete placed, or concrete placed on any given day. One additional test cylinder will be taken during cold weather concreting, cured on job site under same conditions as concrete represents.* | *C* |
| 6. Curing and Protection | *Inspect curing, cold weather protection and hot weather protection procedures.* | *P* |

Note: Special Inspection is not required for flatwork patios, driveways and sidewalks, on grade not shown on structural drawings.


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| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY:

PANDA PROJECT #: - S8-22-D8518

C&P PROJECT #: - 2210604


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02.08.2022

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PLAN NOTES

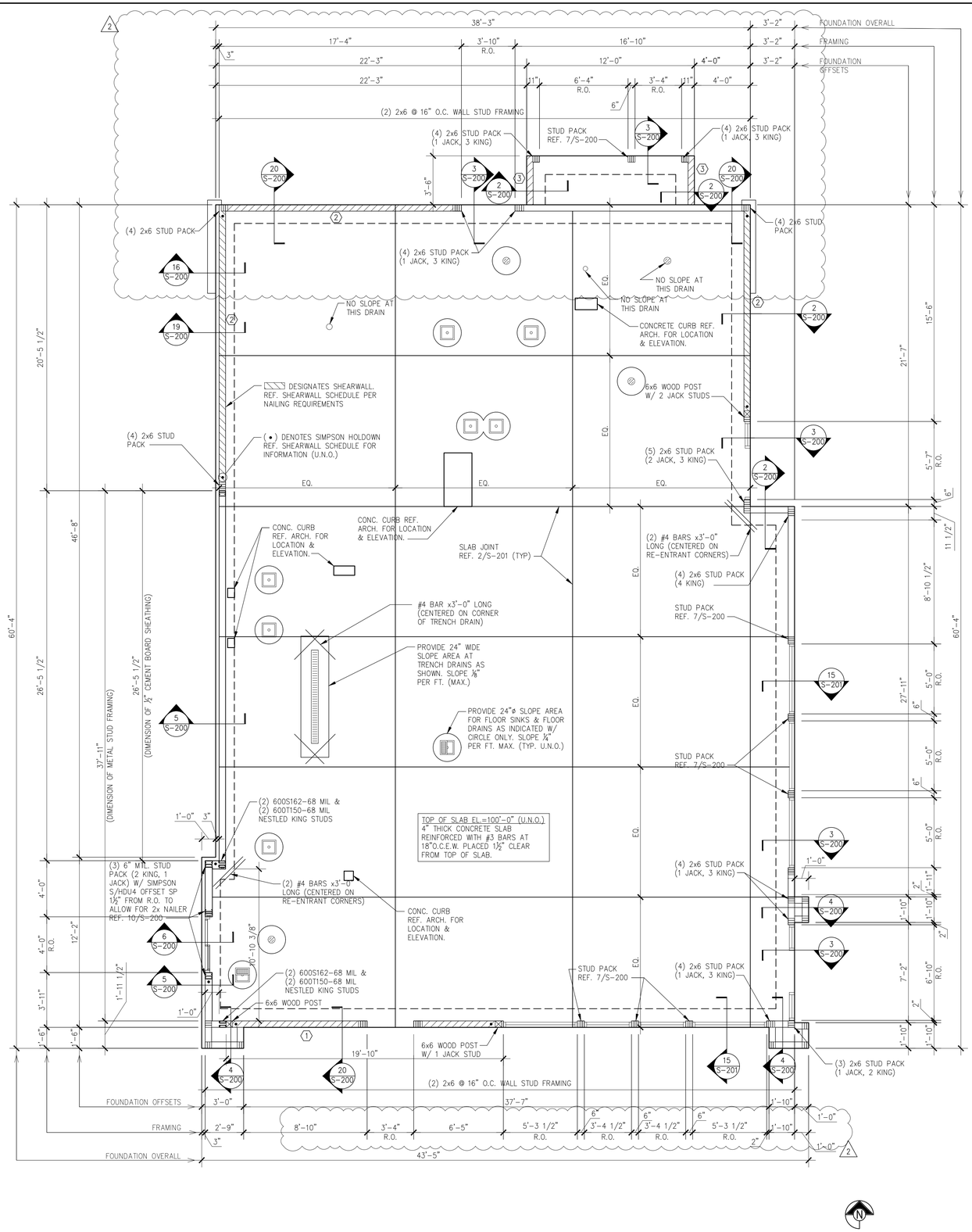
1. REF. SHEET S-000 FOR STRUCTURAL NOTES AND SPECIAL INSPECTIONS.
2. REF. 3/S-201 FOR TYPICAL PIPE AND TRENCH DETAIL AS REQUIRED.
3. REF. 4/S-201 FOR TYPICAL SILL PLATE BOLT DETAIL AS REQUIRED.
4. REF. 5/S-201 FOR TYPICAL STEP FOOTING DETAIL AS REQUIRED.
5. REF. 6/S-201 FOR TYPICAL GRADE BEAM STIRRUP DETAIL AS REQUIRED.
6. REF. 7/S-201 FOR TYPICAL REINFORCING BAR DETAIL AS REQUIRED.
7. REF. 8/S-201 FOR TYPICAL CORNER BAR DETAIL AS REQUIRED.
8. REF. 17/S-200 FOR TYPICAL NON BEARING WALL CONNECTION AT SLAB AS REQUIRED.
9. REF. 3/S-301 FOR TYPICAL FRAMING NOTCHES DETAIL AS REQUIRED.
10. REF. 4/S-301 FOR TYPICAL WALL FRAMING DETAILS AS REQUIRED.
11. REF. 11/S-200 FOR TYPICAL TRASH ENCLOSURE DETAIL AS REQUIRED.
12. REF. 9/S-201 FOR TYPICAL CURB DETAIL AS REQUIRED.
13. REF. 15/S-200 FOR TYPICAL LIGHT POLE BASE DETAIL AS REQUIRED.
14. REF. 12/S-200 AND 16/S-200 FOR TYPICAL UMBRELLA FOOTING AS REQUIRED.
15. REF. 10/S-201 FOR TYPICAL TRENCH DRAIN DETAIL AS REQUIRED.
16. REF. 11/S-201 FOR TYPICAL DRAIN DETAIL AS REQUIRED.
17. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF ALL DEPRESSIONS, CURBS, DRAINS, ETC. IN FLOOR SLAB.

## SHEARWALL SCHEDULE

| TYPE | NAIL SPACING | HOLDOWN | ANCHOR BOLTS |
|---|---|---|---|
| ⟨1⟩ | 10d @ 4" O.C. | HDU8-SDS2.5 | ⅝"ø @ 32" O.C. |
| ⟨2⟩ | 10d @ 6" O.C. 2 | HDU5-SDS2.5 | ⅝"ø @ 32" O.C. |

⟨X⟩ – DESIGNATES SHEARWALL TYPE 2

NOTES:
1. USE 10d COMMON NAILS.
2. NAIL PANEL FACES @ 12" O.C.
3. USE 15/32" PLYWOOD.
4. STAGGER PLYWOOD JOINT AND SILL PLATE NAILING.
5. FRAMING MEMBERS OR BLOCKING SHALL BE PROVIDED AT THE EDGES OF ALL SHEETS IN SHEARWALLS.
6. REFER TO 9/S-200 FOR HOLD DOWN ANCHOR EMBEDMENT.
7. HOLD DOWN ANCHORS MUST BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
8. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3 INCH NOMINAL OR THICKER AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED AT 3" O.C. OR ARE ON EACH FACE.





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FOUNDATION NOTES 1 — Scale: NO SCALE — S-100

FOUNDATION PLAN A — Scale: 1/4"=1'-0" — S-100


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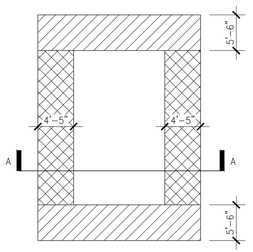
S-100

FOUNDATION PLAN

TRUE WARM & WELCOME 2300 R6

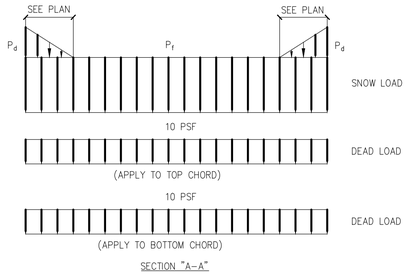



PLAN

$P_d$ = 20 PSF

$P_d$ = 16 PSF

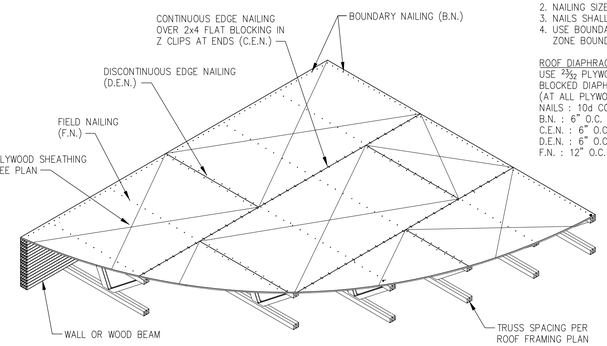
$P_f$ = 3.5 PSF (FOR ENTIRE ROOF)




SECTION "A-A"

NOTE:
ALSO, APPLY ROOF TOP AND SUSPENDED POINT LOADS. WEIGHT AND LOCATION OF UNITS AS NOTED ARE SHOWN ON S-101 AND ARE NOT INCLUDED IN THE ABOVE LOADING DIAGRAM. VERIFY THESE LOADS WITH MECHANICAL SUPPLIER BEFORE DESIGNING TRUSS.

| TRUSS LOADING | 3 |
|---|---|
| | S-101 |




NOTES:
1. RUN LONG DIMENSION OF PLYWOOD PERPENDICULAR TO TRUSSES.
2. NAILING SIZE AND SPACING AS NOTED BELOW.
3. NAILS SHALL HAVE A MIN. $\frac{3}{8}$" EDGE DISTANCE.
4. USE BOUNDARY NAILING CONTINUOUS @ ALL NAILING ZONE BOUNDARIES. SEE PLAN FOR ZONE EXTENTS.

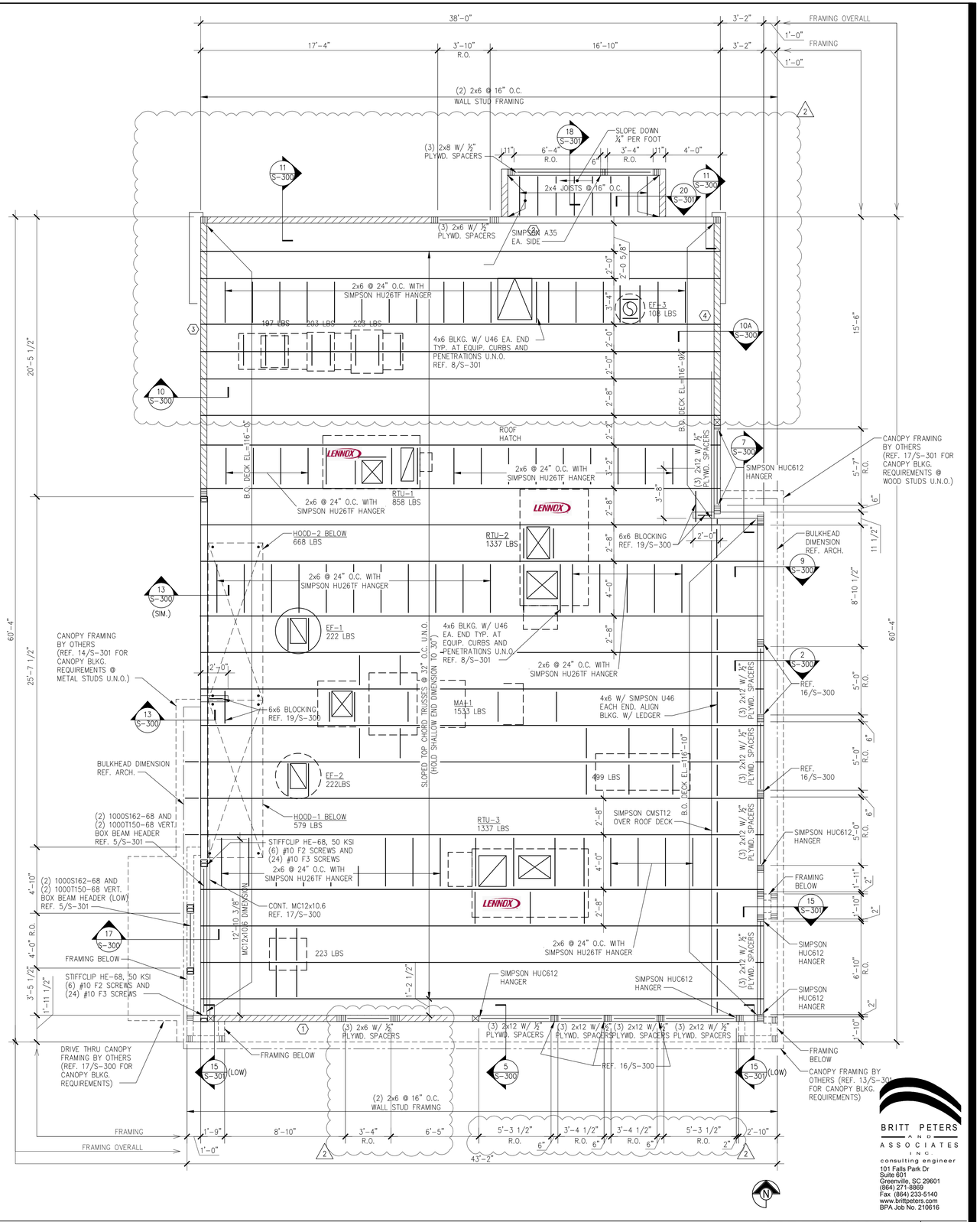
ROOF DIAPHRAGM
USE $\frac{23}{32}$ PLYWOOD, INDEX 48/24
BLOCKED DIAPHRAGM 2x4 FLAT IN Z CLIP
(AT ALL PLYWOOD EDGES, TYP. U.N.O.)
NAILS : 10d COMMON NAILS
B.N. : 6" O.C.
C.E.N. : 6" O.C.
D.E.N. : 6" O.C.
F.N. : 12" O.C.

| TYPICAL ROOF DIAPHRAGM DETAIL | 2 |
|---|---|
| | S-101 |

PLAN NOTES

1. REF. SHEET S-000 FOR STRUCTURAL NOTES AND SPECIAL INSPECTIONS.
2. REF. 9/S-301 FOR TYPICAL SUSPEND THREADED ROD SUPPORT DETAIL AS REQUIRED.
3. REF. 7/S-301 & 12/S-301 FOR TYPICAL SOFFIT FRAMING AT SERVICE COUNTER. REFER TO ARCH. FOR LOCATION.
4. REF. 2/S-301 FOR TYPICAL HEADER DETAIL AS REQUIRED U.N.O.
5. REF. 8/S-301 FOR TYPICAL MECHANICAL UNIT SUPPORT DETAIL AS REQUIRED.
6. REF. 6/S-301 FOR TYPICAL BRIDGING AND BRACING DETAIL AS REQUIRED.
7. REF. 10/S-301 FOR TYPICAL PARTITION WALL SUPPORT PARALLEL TO TRUSS DETAIL AS REQUIRED.
8. REF. 11/S-301 FOR TYPICAL PARTITION WALL SUPPORT PERPENDICULAR TO TRUSS DETAIL AS REQUIRED.
9. REF. 1/S-100 FOR SHEARWALL SCHEDULE.
10. REF. 12/S-201 FOR METAL STUD VERTICAL BLOCKING.

| ROOF NOTES | 1 |
|---|---|
| | S-101 |




| ROOF FRAMING PLAN | A |
|---|---|
| 1/4"=1'-0" | S-101 |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02/08/22

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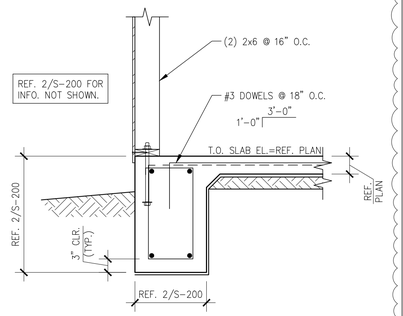
# S-101

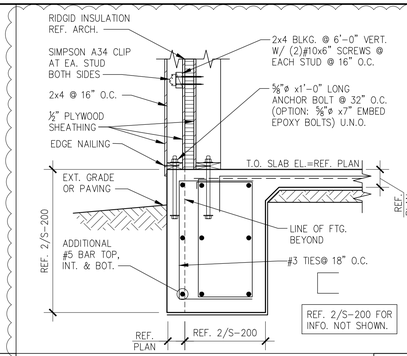
ROOF FRAMING PLAN
LENNOX

TRUE WARM & WELCOME 2300 R6




SECTION 20

SCALE: ¾"=1'-0" S-200

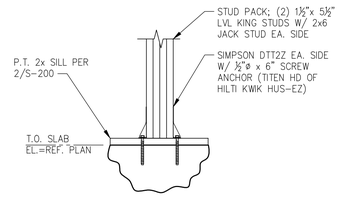



SECTION 16

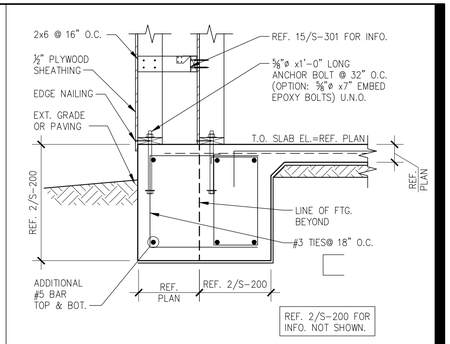
SCALE: ¾"=1'-0" S-200

NOT USED 12

SCALE: N.T.S. S-200




SECT. "A"

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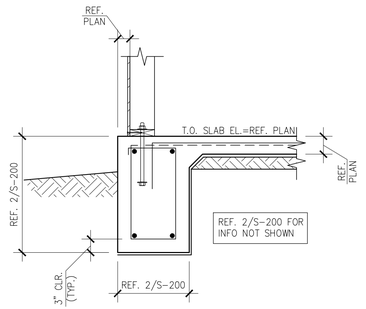


SECTION 19

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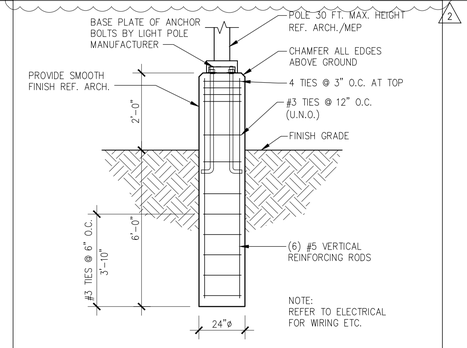
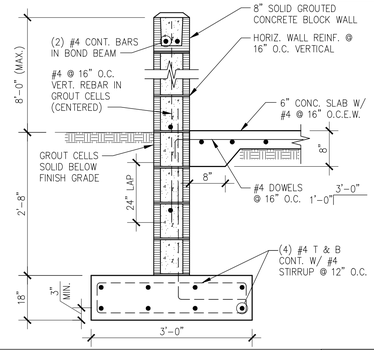



TYPICAL LIGHT POLE SECTION 15

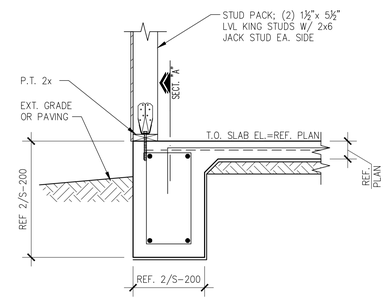
SCALE: N.T.S. S-200




TRASH ENCLOSURE WALL 11

SCALE: ¾"=1'-0" S-200

REF. 02/S-200 FOR INFO NOT SHOWN




SECTION 7

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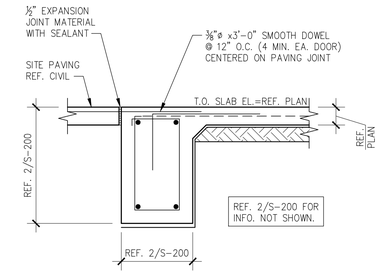


SECTION 3

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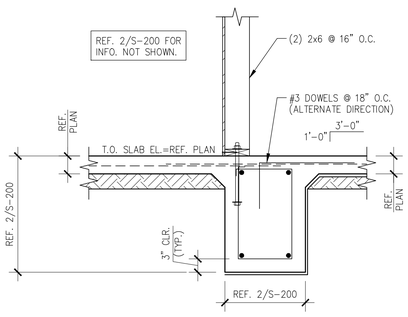
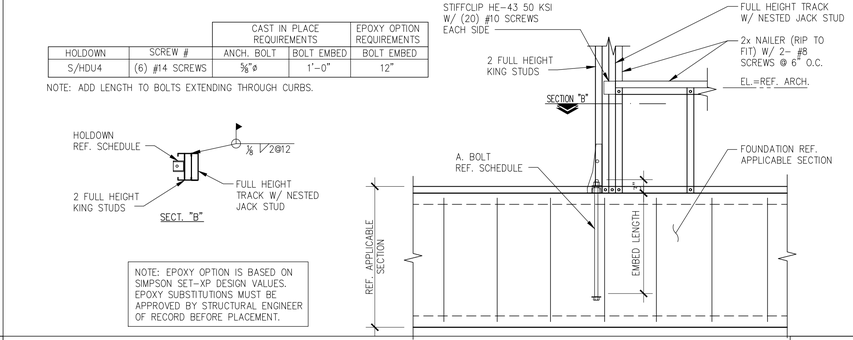


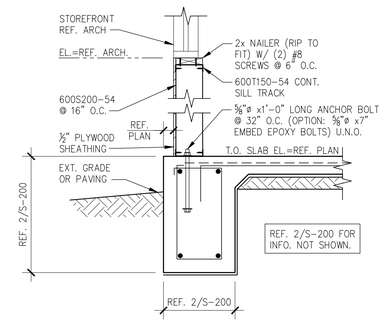

SECTION 18

SCALE: ¾"=1'-0" S-200




TYPICAL HOLDOWN DETAIL- LIGHT GAGE 10

SCALE: ¾"=1'-0" S-200

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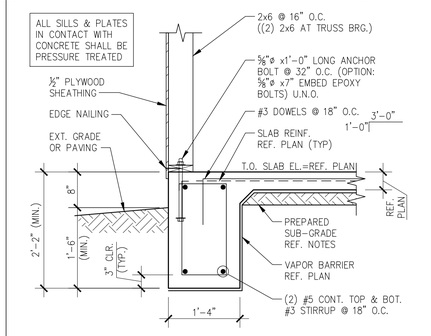
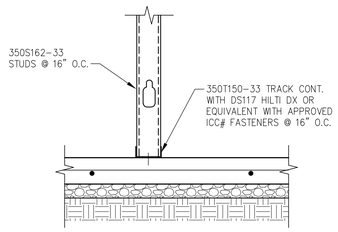


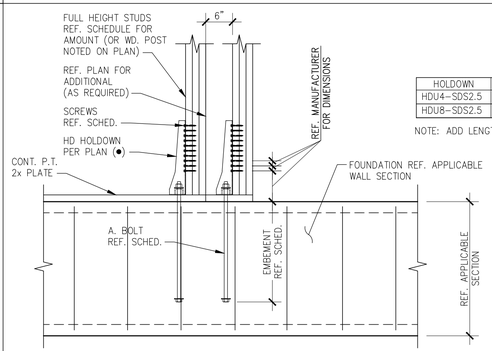

SECTION 2

SCALE: ¾"=1'-0" S-200




SLAB AT NON BEARING WALL 17

SCALE: N.T.S. S-200

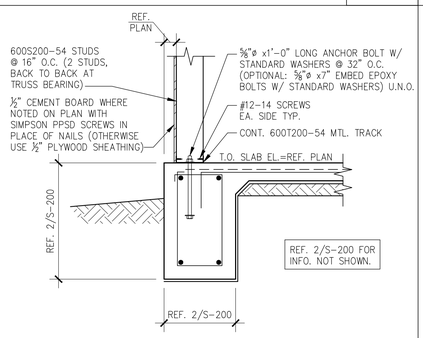



| HOLDOWN | STUDS | SCREW # | CAST IN PLACE REQUIREMENTS ANCH. BOLT | CAST IN PLACE REQUIREMENTS BOLT EMBED | EPOXY OPTION REQUIREMENTS BOLT EMBED |
|---|---|---|---|---|---|
| HDU4-SDS2.5 | 3 | (14) SDS ¼"x2½" | ⅝"ø | 1'-0" | 12" |
| HDU8-SDS2.5 | 3 | (20) SDS ¼"x2½" | ⅞"ø | 1'-0" | 12" |

NOTE: ADD LENGTH TO BOLTS EXTENDING THROUGH CURBS.

TYPICAL HOLDOWN DETAIL- WOOD 9

SCALE: N.T.S. S-200




SECTION 5

SCALE: ¾"=1'-0" S-200

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
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91770
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Facsimile: 626.372.8288

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| 2 | 02.08.22 ISSUE FOR BID |

ISSUE DATE:

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
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DRAWN BY:

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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02.08.2022

GEORGIA REGISTERED PROFESSIONAL ENGINEER W. BRET UNDERWOOD PE036846

02/08/22

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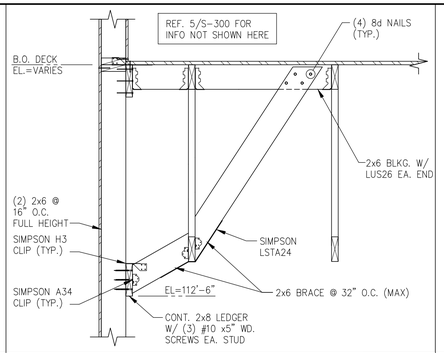
BPA Job No. 210616

# S-200

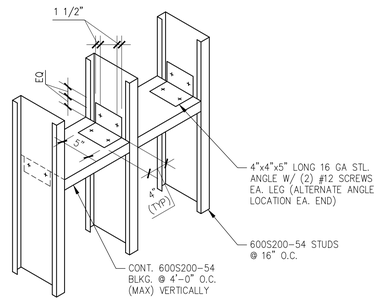
FOUNDATION DETAILS

TRUE WARM & WELCOME 2300 R6

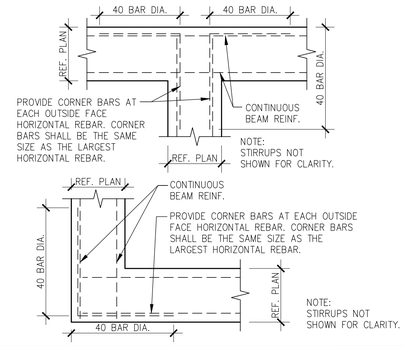
NOT USED 20
SCALE: ¾"=1'-0" S-201



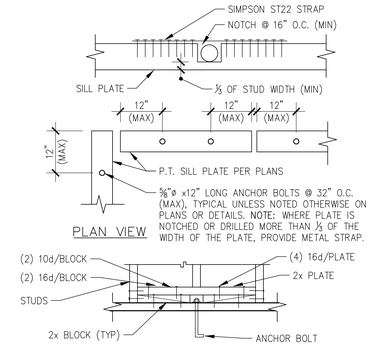

ALTERNATE STOREFRONT BRACE 16
SECTION SCALE: ¾"=1'-0" S-201




TYPICAL METAL STUD VERTICAL 12
BLOCKING SCALE: ¾"=1'-0" S-201

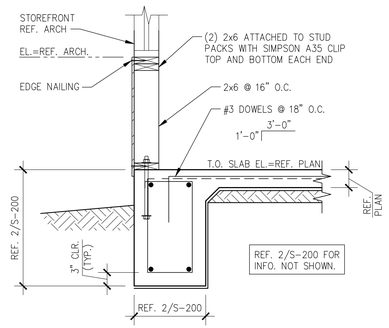



TYPICAL CORNER BAR 8
SCALE: N.T.S. S-201




TYPICAL SILL PLATE BOLTS 4
SCALE: N.T.S. S-201

NOT USED 19
SCALE: ¾"=1'-0" S-201




SECTION 15
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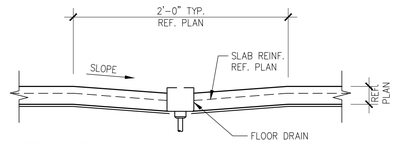
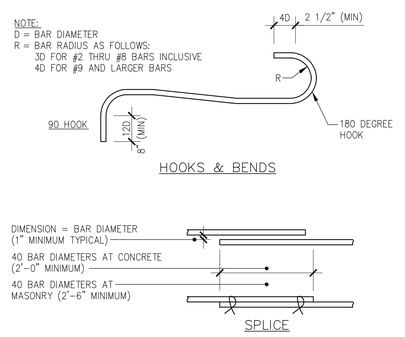
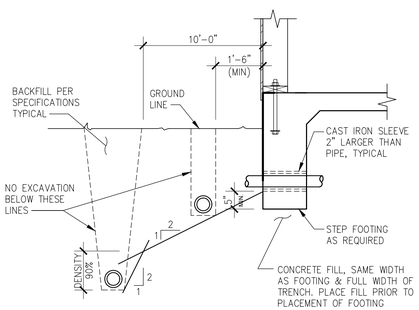



TYPICAL FLOOR DRAIN 11
SCALE: N.T.S. S-201



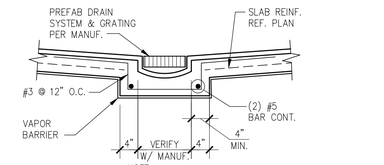

TYPICAL REINFORCING BAR 7
SCALE: N.T.S. S-201




TYPICAL PIPE & TRENCH DETAIL 3
SCALE: N.T.S. S-201

NOT USED 18
SCALE: ¾"=1'-0" S-201

NOT USED 14
SCALE: ¾"=1'-0" S-201




TYPICAL TRENCH DRAIN 10
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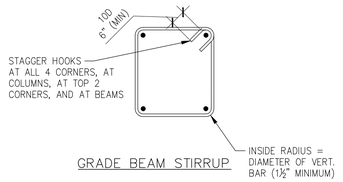
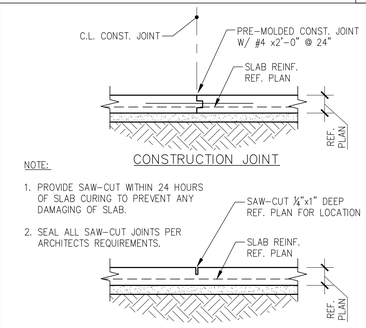


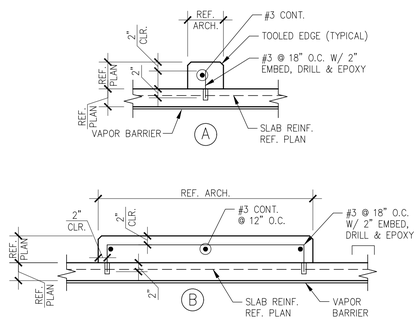

TYPICAL TIES & STIRRUPS 6
SCALE: N.T.S. S-201



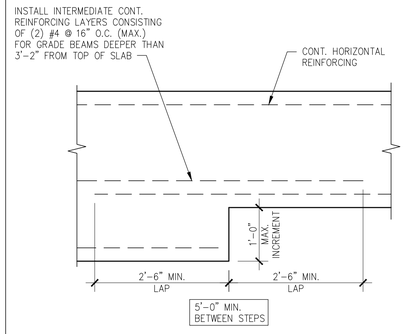

TYPICAL JOINT DETAIL 2
SCALE: ¾"=1'-0" S-201

NOT USED 17
SCALE: ¾"=1'-0" S-201

NOT USED 13
SCALE: N.T.S. S-201




TYPICAL CURB 9
SCALE: ¾"=1'-0" S-201




TYPICAL STEP FOOTING 5
SCALE: N.T.S. S-201

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PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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02.08.2022

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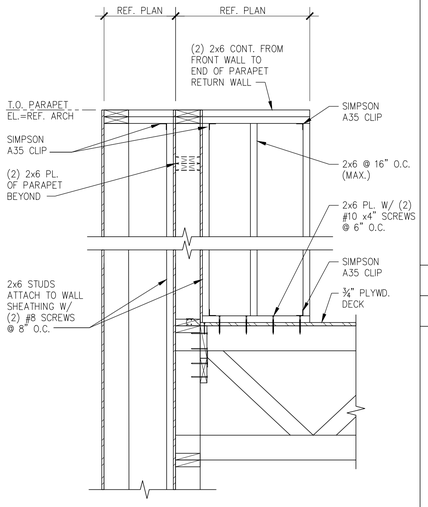
02/08/22

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

S-201

TYPICAL FOUNDATION DETAILS

TRUE WARM & WELCOME 2300 R6




SECTION 19

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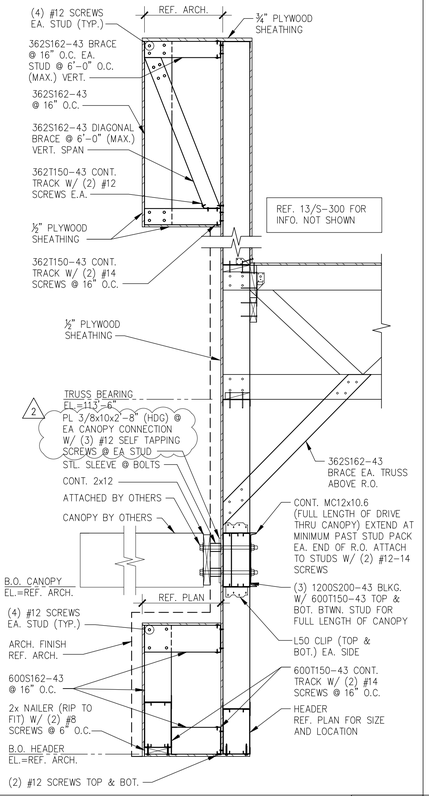


SECTION 17

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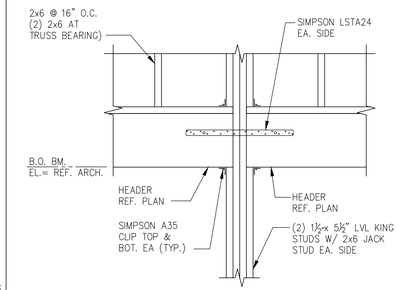


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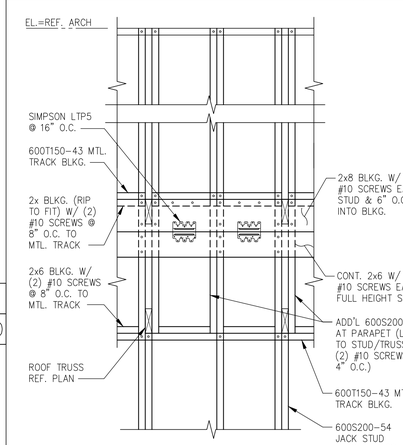
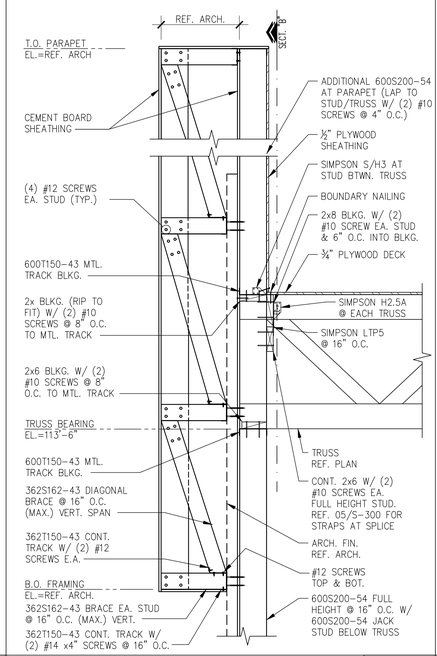



NO BULKHEAD @ SIM.

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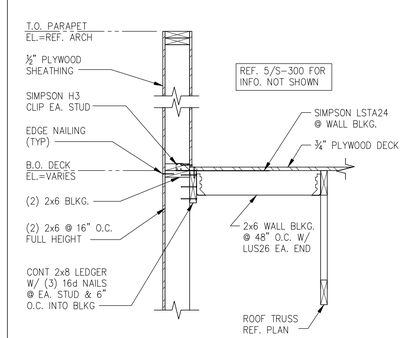


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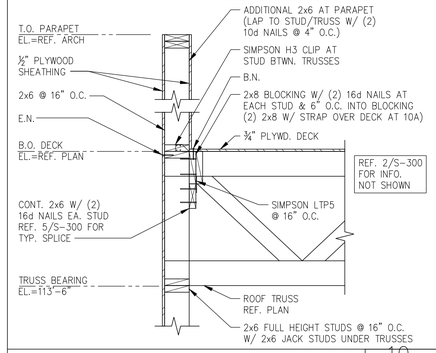
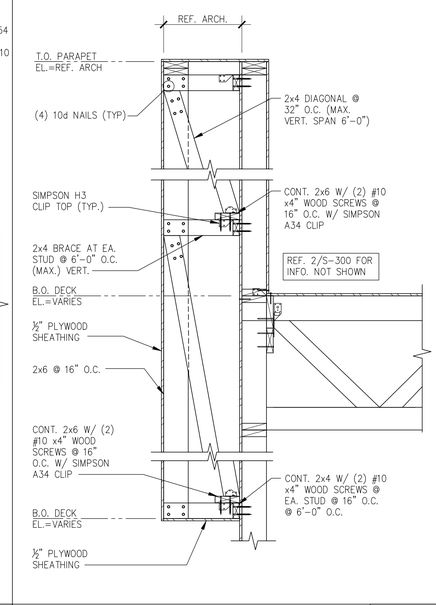



SECTION 10, 10A

SCALE: ¾"=1'-0" S-300




SECTION 9

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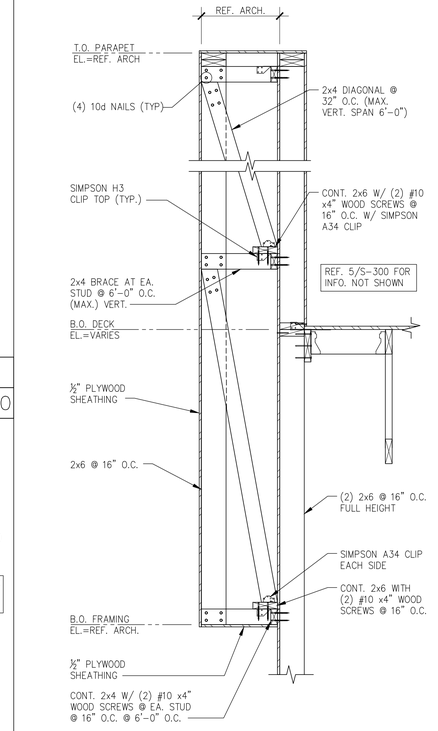


SECTION 7

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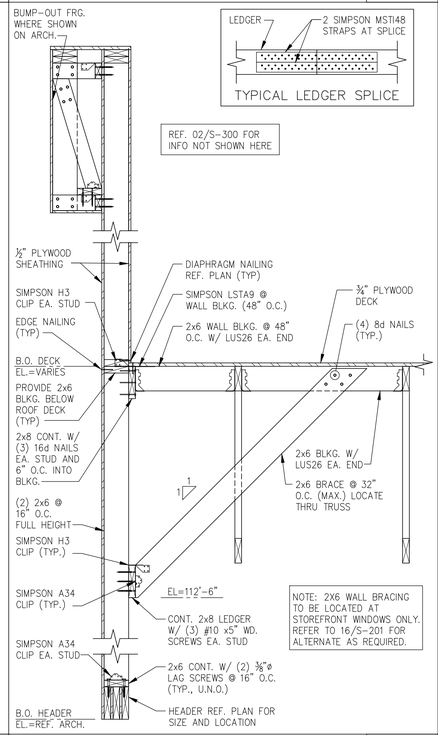


SECTION 5

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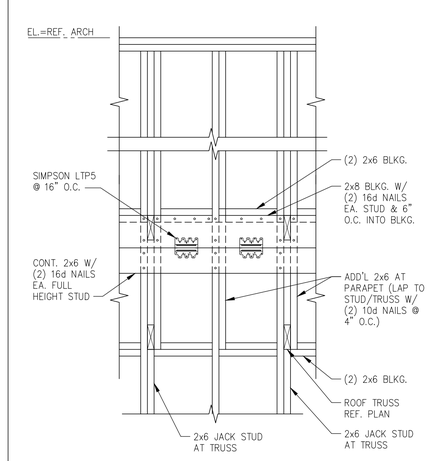
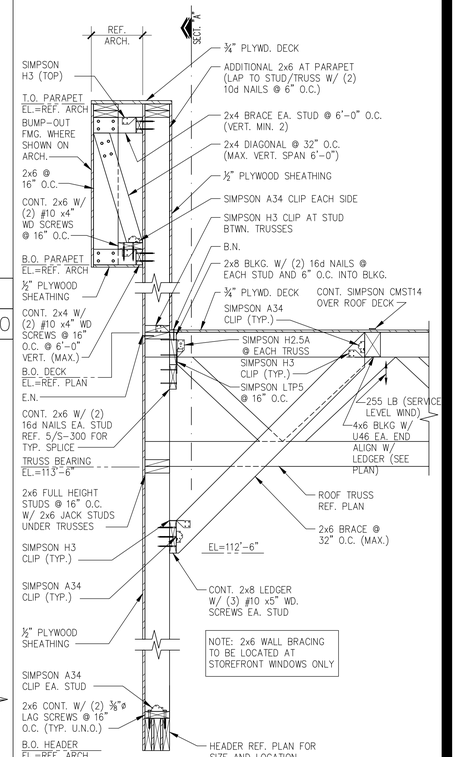



SECT."A"




SECTION 2

SCALE: ¾"=1'-0" S-300

NOTE: TYPICAL TO ALL SECTIONS. REFER TO 13, 14, 17/S-301 AWNING BLOCKING REQUIREMENTS AS APPLICABLE. REFER TO PLAN.

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C&P PROJECT #: - 2210604

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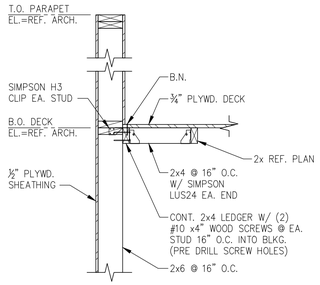
02/08/22

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# S-300

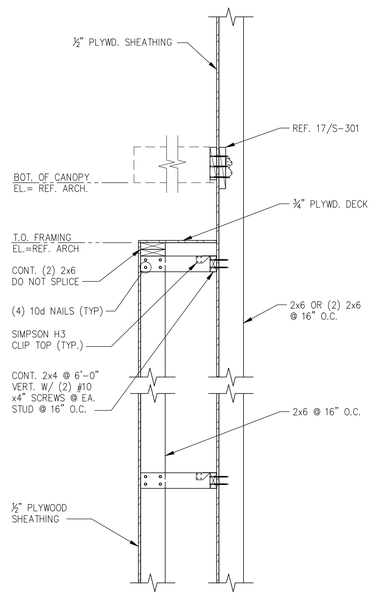
FRAMING SECTIONS

TRUE WARM & WELCOME 2300 R6



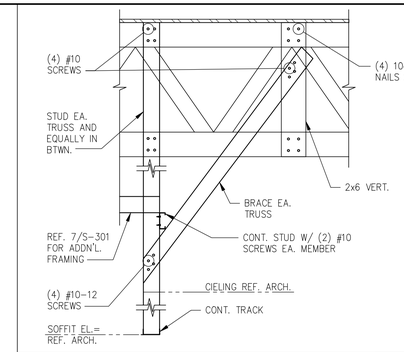

SECTION | 20

SCALE: ¾"=1'-0" | S-301



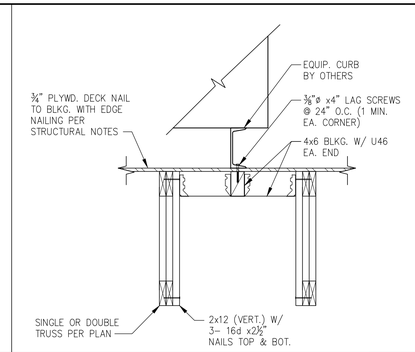

SECTION | 15

SCALE: ¾"=1'-0" | S-301



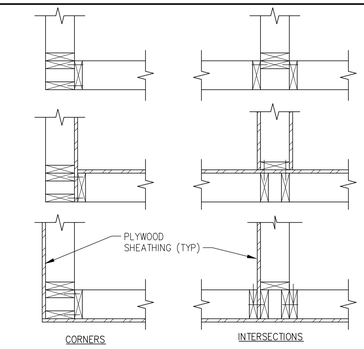

SOFFIT DETAIL @ SERV. COUNTER | 12

SCALE: ¾"=1'-0" | S-301



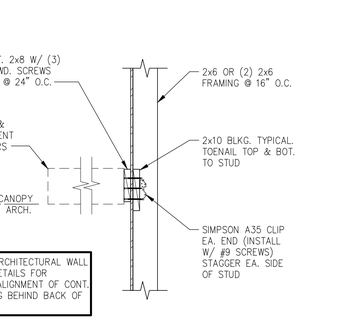

TYP. MECHANICAL SUPPORT UNIT | 8

SCALE: ¾"=1'-0" | S-301



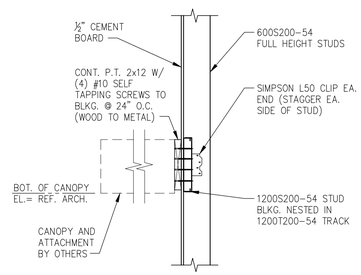

TYPICAL WALL FRAMING | 4

SCALE: ¾"=1'-0" | S-301



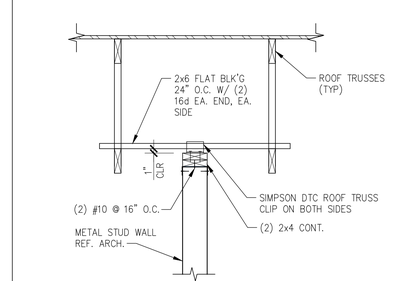

SECTION | 18

SCALE: ¾"=1'-0" | S-301



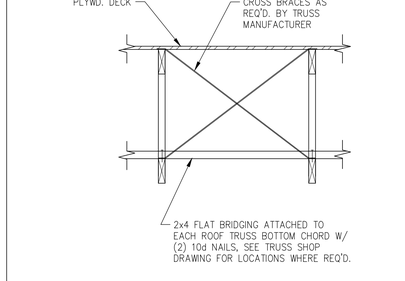

SMALL CANOPY BLKG. @ MTL STUD | 14

SCALE: ¾"=1'-0" | S-301



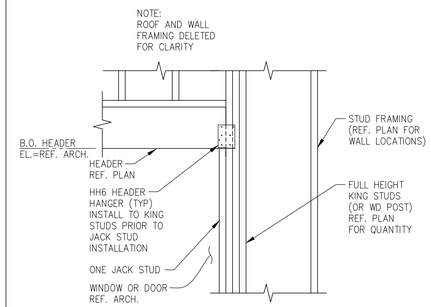

SUPPORT PARALLEL TO TRUSS | 10

SCALE: ¾"=1'-0" | S-301




TYPICAL BRIDGING AND BRACING | 6

SCALE: ¾"=1'-0" | S-301




TYPICAL WOOD HEADER FRAMING | 2

SCALE: ¾"=1'-0" | S-301

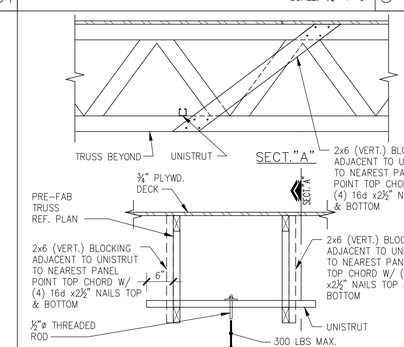



TYPICAL CANOPY BLOCK (U.N.O.) | 17

SCALE: ¾"=1'-0" | S-301

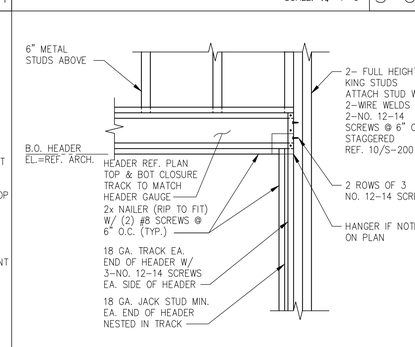
NOT USED | 13

S-301




TYPICAL HANGER SUPPORT | 9

SCALE: ¾"=1'-0" | S-301




TYP. LIGHT GAGE HDR. FRAMING | 5

SCALE: ¾"=1'-0" | S-301

TYPICAL FRAMING NOTCHES | 3

SCALE: N.T.S. | S-301

PANDA EXPRESS CHINESE KITCHEN

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ISSUE DATE:

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

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C&P PROJECT #: - 2210604

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# S-301

TYPICAL FRAMING DETAILS & SECTIONS

TRUE WARM & WELCOME 2300 R6

## GENERAL PLUMBING NOTES

A. FOOD SERVICE EQUIPMENT: REFER TO OTHER PORTIONS OF PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION ABOUT FOOD SERVICE ITEMS FURNISHED AND WORK PERFORMED BY OTHERS. VERIFY ROUGH-IN REQUIREMENTS WITH EQUIPMENT FURNISHED.
B. HEALTH DEPARTMENT: COMPLY WITH LOCAL HEALTH DEPARTMENT (HD) REGULATIONS.WHEREVER POSSIBLE, INSTALL ALL PIPING CONCEALED. CONFORM TO HD REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
C. WORKMANSHIP SHALL BE FIRST CLASS, ACCEPTABLE TO OWNER.
D. MAKE COMPLETE: PROVIDE ITEMS AND WORK AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT: TRAPS, STRAINERS, GAUGES, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, UNIONS, ETC. PROVIDE AND CONNECT PLUMBING PIPE FROM ROUGH-INS TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
E. VERIFY LOCATIONS: EXISTING PIPING, POC SHOWN ON DRAWINGS HAS BEEN LOCATED FROM INFORMATION PROVIDED BY OTHERS. VERIFY EXACT LOCATION ON JOB SITE BEFORE START WORKING.
F. BACKFLOW PREVENTION: PROVIDE BACKFLOW PREVENTERS (BFP) IN WATER LINES ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE DEVICES OF TYPE (VACUUM BREAKER, DOUBLE CHECK, REDUCED PRESSURE) AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES, ONLY IN LOCATIONS REQUIRED.
G. RESTROOM TRAP PRIMERS: SOUIX CHIEF "TRAP EASE" MODEL 200-090 TRAP PRIMER TAILPIECE. PROVIDE A CONTINUOUS LENGTH OF ½" SOFT COPPER TUBE FROM PRIMER TO TRAP, SLOPING TO TRAP. PROVIDE ELASTOMERIC INSULATION ON PIPE INSTALLED BELOW FLOOR SLAB. SEE DETAIL #9 ON SHEET P-500.
H. WATER CONSERVATION: CONTRACTOR SHALL PROVIDE WATER FLOW LIMITING FEATURES ON FIXTURES IF/AS REQUIRED BY LOCAL AUTHORITIES.
I. COLD WATER: CONNECT TO DOMESTIC COLD WATER VALVED STUB. EXTEND COLD WATER PIPE, SUSPENDED FROM STRUCTURE ABOVE CEILING AND DOWN IN PARTITIONS, TO SERVE FIXTURES AND EQUIPMENT.
J. HOT WATER: PROVIDE COMMERCIAL TYPE WATER HEATER, DESIGN PER PLAN. RUN HOT WATER PIPE, SUSPENDED FROM STRUCTURE ABOVE CEILING AND DOWN IN PARTITIONS TO SERVE FIXTURE AND EQUIPMENT.
K. SANITARY: CONNECT TO SANITARY WASTE LINE.
L. BRANCHES: PROVIDE HOT AND/OR COLD WATER PIPES DOWN IN PARTITION TO SERVE VARIOUS EQUIPMENT PER "KITCHEN EQUIPMENT SCHEDULE".
M. SODA CONDUIT: PROVIDE 6" CONDUIT BELOW FLOOR FROM SODA STORAGE TO SODA DISPENSER.
N. CONDENSATE: PROVIDE 1" INSULATED PRIMARY AND SECONDARY CONDENSATE DRAIN PIPES FROM FAN-COIL UNIT ABOVE CEILING TO NEAREST FLOOR SINK.
O. GAS SERVICE: PROVIDE ALL PIPES, VALVES AND CONNECTION TO GAS METER. FOR NATURAL GAS SERVICE, COORDINATE WITH GAS UTILITY COMPANY FOR METER REQUIREMENTS, PERMITS AND FEES. ROUTE PIPE AS REQUIRED, SUSPENDED FROM STRUCTURE ABOVE. USE WELDED PIPE, FITTINGS, AND JOINTS IN CEILING SPACE AND IN WALL AS REQUIRED BY LOCAL CODE.
P. INDIRECT DRAIN: AN AIR GAP TWICE THE SIZE OF THE DRAIN LINE MUST BE PROVIDED BETWEEN THE DRAIN LINE AND THE SANITARY SEWER.
Q. LIQUID WASTE FROM ALL EQUIPMENT MUST BE DISCHARGED TO THE SANITARY SEWER.
R. FLOOR DRAIN MUST BE PLACED ADJACENT TO EQUIPMENT WHICH DISCHARGES WASTE. FLOOR DRAIN INSTALLATION MUST NOT INTERFERE WITH PROPER FLOOR MAINTENANCE.
S. EXPOSED UTILITY LINES ON FLOORS ARE PROHIBITED. UTILITY LINES MUST NOT BE UNNECESSARILY EXPOSED ON WALLS.
T. ALL WATER AND GAS CONNECTIONS TO ALL PLUMBING FIXTURES TO BE HARD PIPED. NO FLEX PIPE.
U. ALL PIPES 6" A.F.F. NO FLOOR SUPPORTS ALLOWED.
V. ALL WATER PIPES IN EXPOSED AREAS OUTSIDE WALLS AND BELOW CEILING MUST BE COPPER UNLESS NOTED OTHERWISE.

## PLUMBING SPECIFICATIONS

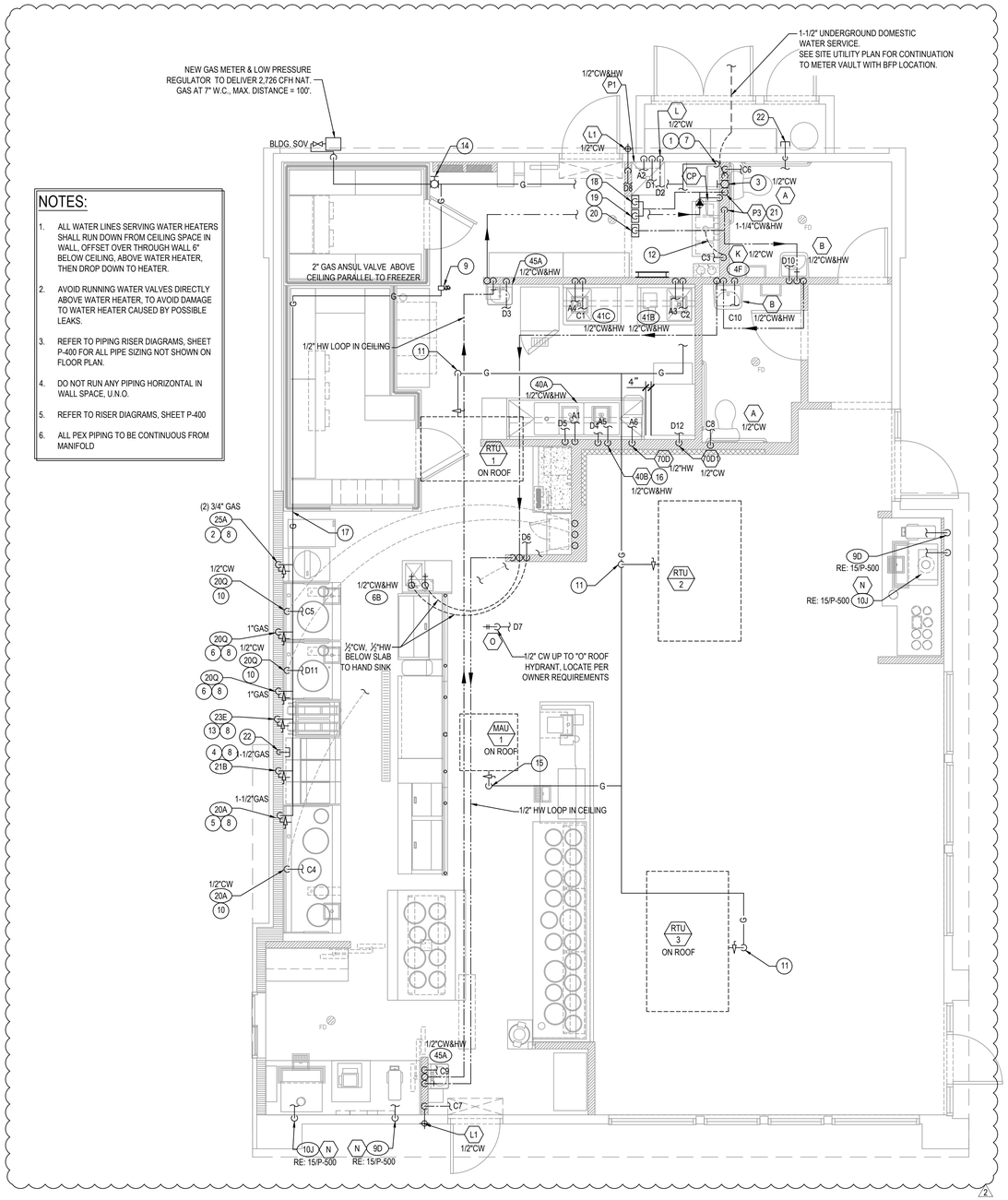
1. WORK INCLUDES CONNECTION OF PLUMBING UTILITIES TO DEVELOPER OR LANDLORD'S UTILITIES AND INSTALLATION OF A COMPLETE PLUMBING SYSTEM WITHIN SPACE. PROVIDE NEW MATERIALS, FITTINGS, ACCESSORIES, FIXTURES AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SYSTEM AS SHOWN ON PLANS AND AS REQUIRED. WORK INCLUDES FINAL CONNECTIONS TO EQUIPMENT AND FIXTURES PROVIDED BY OTHERS. FURNISH ALL NEW MATERIALS. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN, AND THEIR WORKMANSHIP SHALL BE HIGH STANDARD, ACCEPTABLE TO OWNER.
2. CODES: ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS, OR ORDINANCES. PAY FOR ANY PERMITS REQUIRED, AND CALL FOR ANY REQUIRED INSPECTIONS TO BE MADE BY LOCAL AUTHORITIES.
3. INTENT OF DRAWINGS IS TO INDICATE GENERAL EXTENT OF WORK REQUIRED FOR PROJECT. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING GENERAL LOCATION, TYPE, PIPING, FIXTURES AND EQUIPMENT REQUIRED. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FULFILL INTENT OF PLANS. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. USE DIMENSIONED ARCHITECTURAL DRAWINGS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURES, AND TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
4. FSE ROUGH-IN DRAWINGS: REFER TO ROUGH-IN DRAWINGS FURNISHED BY THE FOOD SERVICE EQUIPMENT SUPPLIER, FOR EXACT LOCATION OF WATER PIPING SUPPLIES AND DRAIN LOCATIONS TO SERVE FOOD SERVICE EQUIPMENT. DO NOT LAYOUT WORK OF THIS SECTION WITHOUT SUCH DRAWINGS.
5. COORDINATE WITH WORK OF OTHER SECTIONS AND TRADES, WITH EQUIPMENT FURNISHED BY OTHERS, AND WITH CONSTRAINTS OF EXISTING CONDITIONS OF PROJECT SITE.
6. MISCELLANEOUS EXPENSES SUCH AS HOOK-UP CHARGES, PERMITS, INSPECTIONS, AND OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING SYSTEM ARE INCLUDED AS PART OF THIS SECTION.
7. PIPING SYSTEMS, GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. SEAL PIPE PENETRATIONS OF FIRE FLOORS AND FIREWALLS WITH FIREPROOF PUTTY OR GROUT. PROVIDE SUMMER OR EQUIVALENT PIPE HANGING SYSTEM IN ITS CHASES. PROVIDE HANGERS AS RECOMMENDED BY HANGER MANUFACTURER AND MSS-SP-58, 69 AND 89.
8. WASTE PIPING: PROVIDE ALL DRAIN, WASTE AND SEWER PIPING WITHIN PROJECT SPACE WITH CONNECTION TO SANITARY WASTE SYSTEM ON SITE. PROVIDE A COMPLETE SYSTEM OF WASTE PIPING, CONSISTING OF SCH 40 PVC PIPE, CONNECTORS AND FITTINGS ALL PIPING SHALL BE SLOPED UNIFORMLY AT 2% UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS.
   8.1. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT APART.
   8.2. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH
9. VENTS: PROVIDE A COMPLETE SYSTEM OF VENT PIPING, CONSISTING OF SCH 40 PVC PIPE, CONNECTORS AND FITTINGS. COMBINE THE VENT RISERS IN THE CEILING SPACE. CONNECT TO EXISTING VENT MAIN.
10. WATER PIPING: CONNECT TO EXISTING WATER PIPING AND PROVIDE A NEW DOMESTIC HOT AND COLD WATER PIPING SYSTEM INSIDE THE BUILDING AS SHOWN ON DRAWINGS. LAY OUT WATER PIPING SO THAT ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE ZURN PEX (ASTM F877, SDR 9 TUBING) WITH ZURN PEX PRE-ASSEMBLED MANIFOLDS. FITTINGS AND JOINTS FOR PEX-A TUBE: ASTM F1960 COMPATIBLE COLD EXPANSION FITTINGS, MATCHING PEX TUBE DIMENSIONS. USE BLUE COLOR PEX FOR COLD WATER AND RED COLOR PEX FOR HOT WATER. PEX PIPING SHALL BE CONTINUOUS FROM MANIFOLD CONNECTION TO COPPER STUB-OUT AT EACH FIXTURE. PEX PIPING SHALL NOT BE SPLICED WITHIN WALLS. PROVIDE WATER HAMMER ARRESTERS AT RESTROOM AREA & CHINESE WOK AREA PER DRAWING SHOWN. FLUSH WATER PIPING CLEAR OF DEBRIS AND CLEAN AERATORS AND STRAINERS AT TERMINATION OF INSTALLATION.
11. NATURAL GAS PIPING: INSIDE AND OUTSIDE THE BUILDING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL ASTM A-33 PIPE WITH 125 LB MALLEABLE IRON SCREWED FITTINGS WHERE EXPOSED. PRIMER AND PAINT EXTERIOR GAS PIPING YELLOW TO PREVENT RUST. PROVIDE ALL UNIONS, SHUT OFF VALVES AND DRIP LEGS REQUIRED BY NFPA-54 AND GOVERNING CODES. PROVIDE ALL TESTS, INSPECTIONS, HANGERS AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM. TAP ON UTILITY GAS MAIN AND GAS METER SHALL BE BY GAS COMPANY. EXTEND PIPING FROM METER TO EQUIPMENT AS DETAILED ON DRAWINGS. PROVIDE ROUTING, HANGING, AND PENETRATIONS PER OWNER'S REQUIREMENTS.
12. PIPE INSULATION: INSULATE ALL COLD WATER AND CONDENSATE PIPING WITH ½", AND HOT WATER PIPING WITH 1", PREFORMED FIBERGLASS WITH ALL-SERVICE JACKET WITH VAPOR BARRIER (BY CT, OC, JM, PPG, OR KNAUF). AT CONTRACTOR'S OPTION, PLENUM-RATED ELASTOMERIC INSULATION (BY ARMSTRONG, RUBATEX OR EQUAL) MAY BE USED.
13. PIPE MARKING:
   13.1. IDENTIFY ALL PIPING WITH ANSI/ASME A13.1 2007 APPROVED PIPE MARKER SYSTEM USING EZ ARROWS AND ARROW BANDING TAPE IN CONJUNCTION WITH EZ PIPE MARKERS. PRODUCTS AVAILABLE AT PIPEMARKER.COM. 822-274-6271. INSTALL PER MANUFACTURERS INSTRUCTIONS.
   13.2. IDENTIFY ALL MANIFOLDS AND ALL VALVES ON THE MANIFOLDS FOR CORRESPONDING FIXTURES.
14. SHUT-OFF VALVES WITH UNIONS SHALL BE PROVIDED AT BRANCHES TO GROUPS OF MORE THAN TWO FIXTURES, AND AT THE WATER HEATER, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. USE CHROME-FINISHED FORGED BRONZE BODY BALL VALVE, WITH TEFLON SEATS AND PACKING, 400 LB WOG, WITH SOLDER ENDS, EQUAL TO JENKINS #902-T. GAS VALVES SHALL BE ALL BRONZE LUBRICATED PLUG COCKS FOR SCREWED PIPE, BY WALWORTH, ROCKWELL, NORDSTROM OR APPROVED EQUIVALENT.
15. ACCESS PANELS: SHALL BE PROVIDED IN CEILINGS OR WALLS WHERE CONCEALED CONTROL DEVICES ARE LOCATED, EXCEPT WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN CEILINGS.
16. SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROME PLATED BRASS.
17. INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES, PER MANUFACTURER'S ROUGH-IN DIMENSIONS. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT. REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AND RESTORE TO ORIGINAL CONDITIONS. PROVIDE CLEAN CONDITIONS AT TERMINATION OF WORK.
18. TEST WATER, GAS, VENT, AND WASTE SYSTEMS PER LOCAL CODE REQUIREMENTS. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP ARE DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST TILL STANDARDS ARE ACHIEVED.
19. GUARANTEE THE WORK AND THE INSTALLATION FOR ONE YEAR AFTER FORMAL ACCEPTANCE BY THE OWNER.
20. ALL SAW CUT AND PATCH BACK OF FLOOR TO MATCH EXISTING FINISHES. BACKFILL PER DEVELOPER OR OWNER' SOILS ENGINEER'S RECOMMENDATIONS

## PLUMBING KEY NOTES

1. 1-1/4"G DOWN TO WATER HEATER W/ SOV (SHUT OFF VALVE).
2. ¾" G DOWN TO RICE COOKER W/ SOV. PROVIDE 6" LENGTH OF RIGID PIPE BETWEEN RICE COOKER AND FLEXIBLE GAS LINE.
3. CW SHUT OFF BALL VALVE LOCATED WITHIN WALL AT 24" AFF. REFER TO DETAIL #5 ON SHEET P-400 FOR ACCESS PANEL DETAIL.
4. 1½" G DOWN TO DEEP FRYER W/ SOV.
5. 1½" G DOWN TO CHINESE RANGE "20A OR 20B" W/ SOV. LOCATE STUB OUT BEHIND THE END OF RANGE FOR EASY ACCESS.
6. 1" G DOWN TO CHINESE RANGE "20Q" W/ SOV.
7. EXHAUST & INTAKE VENTS UP TO ROOF. COORDINATE WITH MECHANICAL DRAWINGS AND DETAIL #10 ON SHEET P-500.
8. ROUTE NEW PIPING IN WALL.
9. 2" GAS ANSUL VALVE PROVIDED BY OWNER (G.C. CALL CAPITVEAIRE FOR DELIVERY). INSTALL GAS ANSUL VALVE AS CLOSE TO EXTERIOR WALL AS ALLOWED PER LOCAL CODE.
10. NOT USED.
11. 1" G UP TO ROOF W/ SOV. FOR ROOFTOP UNITS.
12. ½" CW TO TRAP PRIMER. PROVIDE WALL ACCESS PANEL. RUN ½" CW BELOW FLOOR TO FLOOR DRAIN, SEE DETAIL #17 ON PLAN P-500.
13. ¾" GAS DOWN FOR EQUIPMENT.
14. SHUT OFF VALVE W/ HANDLE AT 11'-0" ABOVE FINISH FLOOR, EASILY ACCESSIBLE. G.C. TO INSTALL LOCATION INDICATOR STICKER PROVIDED BY PANDA EXPRESS
15. 1½" GAS UP TO MAKE-UP AIR UNIT ON ROOF.
16. ½" HW & CW TO FAUCET (40B) FOR CHEMICAL FEED SYSTEM. LEFT SIDE PLUMBING ROUGH AT 4" OFF LEFT END OF SINK. SEE CHEMICAL FEED SYSTEM PIPING DIAGRAM ON SHEET P-400
17. GAS HEADER – INSTALL TIGHT TO WALL AND TIGHT TO BOTTOM OF TRUSSES.
18. COLD WATER MANIFOLD "C" BELOW CEILING. REF ARCH ELEVATIONS
19. COLD WATER MANIFOLD "D" BELOW CEILING. REF ARCH ELEVATIONS
20. HOT WATER MANIFOLD "A" BELOW CEILING. REF ARCH ELEVATIONS
21. SEE HOT WATER SYSTEM DIAGRAM 5/P-400
22. 3/4" GALVANIZED PIPE, THREADED AT BOTH ENDS. ROUTE ABOVE CEILING FROM FRYERS TO GREASE STORAGE TANK.
    ROUGH-IN HEIGHT AT STORAGE ROOM: 84" AFF
    ROUGH-IN HEIGHT AT COOKLINE: 10"AFF

## PLUMBING SYMBOLS

| | |
|---|---|
| | COLD WATER PIPING |
| | HOT WATER PIPING |
| G | GAS LINE |
| | PLUMBING VENT (V) |
| FV | PLUMBING VENT (V) BELOW SLAB/GRADE |
| | SANITARY WASTE (SAN) BELOW SLAB/GRADE |
| | PIPE TURNING UP/DOWN |
| | GAS COCK |
| | F.S. WITH HALF GRATE |
| FD | FLOOR DRAIN |
| A | FIXTURE IDENTIFICATION |
| 1 | PLAN NOTE |
| 1 | KITCHEN EQUIPMENT IDENTIFICATION |
| VTR | VENT THRU ROOF |
| AFF/AFG | ABOVE FINISHED FLOOR/GRADE |
| CO | CLEANOUT |
| WCO | WALL CLEANOUT |
| FCO FGCO | FLUSH FLOOR/GRADE CLEANOUT |
| FPC | FIRE PROTECTION CONTRACTOR |
| DNR | DEPARTMENT OF NATURAL RESOURCES |
| TYP | TYPICAL |
| (E) | EXISTING |
| | POINT OF CONNECTION |
| BV | BALL VALVE |
| CV | CHECK VALVE |
| GS | GREASE WASTE |




NOTES:

1. ALL WATER LINES SERVING WATER HEATERS SHALL RUN DOWN FROM CEILING SPACE IN WALL, OFFSET OVER THROUGH WALL 6" BELOW CEILING, ABOVE WATER HEATER, THEN DROP DOWN TO HEATER.
2. AVOID RUNNING WATER VALVES DIRECTLY ABOVE WATER HEATER, TO AVOID DAMAGE TO WATER HEATER CAUSED BY POSSIBLE LEAKS.
3. REFER TO PIPING RISER DIAGRAMS, SHEET P-400 FOR ALL PIPE SIZING NOT SHOWN ON FLOOR PLAN.
4. DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE, U.N.O.
5. REFER TO RISER DIAGRAMS, SHEET P-400
6. ALL PEX PIPING TO BE CONTINUOUS FROM MANIFOLD

WATER & GAS PLAN | 1
Scale: 1/4"=1'-0" | P-100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PANDA EXPRESS
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COVINGTON, GEORGIA 30014

# P-100

WATER & GAS PLAN

TRUE WARM & WELCOME 2300 R6

## PLUMBING FIXTURE SCHEDULE

**A** TANK WATER CLOSET (HANDICAPPED): AMERICAN STANDARD 3378.128ST CADET 3 FLUSH TANK WITH TRIP LEVER ON OPEN SIDE OF TOILET. FLOOR MOUNTED. STANDARD WHITE FINISHED. ELONGATED FRONT BOWL. PRESSURE ASSISTED 1.28 GPF. RIM 16 1/2" A.F.F.
AM. STD 603111-0030A TANK COVER LOCKING DEVICE
AM. STD. 5321.110 OPEN FRONT SEAT LESS COVER.

**B** LAVATORY: ZURN MODEL Z5344, 20"x18" WALL HUNG LAVATORY, VITREOUS CHINA, WITH 4" CENTER FAUCET HOLES & ZURN Z-1231 CONCEALED ARM CARRIER.
FAUCET: TOTO TEL105 -D10ET STANDARD ECOPOWER FAUCET. SENSOR, 0.5 GPM AERATOR, 0.99gpc. 4" COVER PLATE #THP3158#CP.
THERMOSTIC MIXING VALVE: TOTO TLT10R.
PROVIDED & INSTALLED BY CONTRACTOR CONTACT CHRISTINE MCALEXANDER 800-459-7099 PANDARG@HJCINC.COM

**C** NOT USED

**D** FLOOR DRAIN: ZURN # ZB415-B5 CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, MEMBRANE FLASHING CLAMP. PROVIDE 3" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL 17/P-500. PROVIDE TRAP PRIMER

**D1** FLOOR DRAIN: ZURN # ZB415-B5 CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, MEMBRANE FLASHING CLAMP. PROVIDE 3" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL 9/P-500. PROVIDE TRAP PRIMER

**E** FLOOR SINK: ZURN # Z1901-31, RECEPTOR WITH 12" SQUARE TOP x 8" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR PROVIDED WITH ALUMINUM DOME STRAINER WITHOUT GRATE.

**E1** FLOOR SINK: ZURN # Z1901-2-32, RECEPTOR WITH 12" SQUARE TOP x 8" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR PROVIDED WITH PORCELAIN ENAMEL LOOSE-SET 1/2 GRATE AND ALUMINUM DOME STRAINER.

**F** NOT USED

**G** FLOOR DRAIN WITH FUNNEL: ZURN # ZB415-AR-4 ACID RESISTING EPOXY COATED CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, 4" FUNNEL. PROVIDE 2" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION.
REFER TO DETAIL. PROVIDE TRAP PRIMER

**H** NOT USED

**I** GREASE INTERCEPTOR: JENSEN JP1500EE-G, 1500 GALLONS, 4" INLET AND OUTLET. TRAFFIC COVER. REFER TO CIVIL DRAWINGS FOR LOCATION. THE DESIGN OF THE GREASE INTERCEPTOR SHALL BE APPROVED BY LOCAL CITY REQUIREMENT.

**J** WATER HAMMER ARRESTER: J. R. SMITH #5020, 1" NIPPLE OR EQUAL

**K** PROVIDE ZURN 375ST STAINLESS STEEL REDUCED PRESSURE PRINCIPLE ASSEMBLY AT BAG-N-BOX. REFER TO 15/P-500

**L** HOSE BIBB: ACORN #8121 WITH VACUUM BREAKER, CHROME PLATED.

**L1** HOSE BIBB: WOODFORD MB65 FREEZELESS COMMERCIAL CONCEALED BOX TYPE WALL HYDRANT IN SECURE LOCK STYLE MODULAR BOX. SINGLE CHECK ANTI SIPHON VACUUM BREAKER. CHROME HEAD, BRASS VALVE BODY HYDRANT WITH ¾" HOSE CONNECTION 18" A.F.F.

**M** TRENCH DRAIN: ZURN #Z-886-RFS, 6" WIDE x 80" LONG, TRENCH DRAIN SYSTEM. MODULAR CHANNEL SECTIONS SHALL BE MADE OF HIGH DENSITY POLYETHYLENE WITH INTERLOCK ENDS, A RADIUS BOTTOM AND REINFORCED STAINLESS STEEL SLOTTED GRATE.

**M1** TRENCH DRAIN: ZURN #Z-664, 6" WIDE X 12" LONG, TRENCH DRAIN SYSTEM. PROVIDE ONE BOTTOM OUTLET MODULE AND ONE EXTENSION MODULE WITH INTERLOCK ENDS, SLOTTED HEEL-PROOF GRATE.

**N** PROVIDE WATTS SD-3 DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER AFTER EACH BV.

**O** FREEZE PROOF ROOF HYDRANT: WOOFORD MODEL: SRH-MS

**P1** MOP SINK: GSW # SE2424FM 24"x24" STAINLESS STEEL UNIT , 18 GA. STAINLESS STEEL. CHICAGO FAUCET #897 WITH INTEGRAL STOPS IN SHANKS, WALL BRACE, HOSE THREADS, PAIL HOOK, VACUUM BREAKER; ROUGH BRASS FINISH; THREE FOOT RUBBER HOSE; 3" TRAPPED AND VENTED WASTE CONNECTION. PROVIDE 3/4" HW & CW RI 8" OC, 36" A.F.F. PROVIDE ¾" CW HOSE BIBB, ACORN #8121 W/ VACUUM BREAKER, 48" A.F.F. FOR CHEMICAL CONNECTION.

**P3** TANKLESS GAS WATER HEATER SYSTEM. MFG: RINNAI TRX-02CU (2 CU199). 398,000 BTU/HR GAS INPUT. 7.6 GPM @ 100° RISE. SEE PIPING DIAGRAM ON SHEET P-400 INCLUDE ALL PIPING, VENTING, WALL MOUNTING BRACKET AND ANY ACCESSORIES NECESSARY TO COMPLETE SYSTEM INSTALL. PLUMBER SHALL REGISTER PRODUCT WITH RINNAI AT TIME OF INSTALLATION TO VALIDATE WARRANTY.
CONTACT: RICO VIGLIETTI, RINNAI AMERICA CORPORATION
CORPORATE ACCOUNTS MANAGER
(901 440-7389 JVIGLIETTE@RINNAI.US

**CP** HW CIRC. PUMP - MFG: GRUNDFOS, UP 15-18B5, 1/25 HP, 115 VOLT, 2 GPM @ 7' HEAD OR APPROVED EQUIVALENT.

**RD** RD - ROOF DRAIN:
J.R. SMITH #1010 CAST IRON ROOF DRAINS WITH FLASHING COLLAR AND CAST IRON DOME. FURNISH EXTENSION (SUFFIX-E) FOR INSULATED ROOFS. SUMP RECEIVER (SUFFIX-R) AND UNDER-DECK CLAMP (SUFFIX-C) FOR ALL BUT POURED-IN-PLACE INSTALLATIONS. OUTLET CONNECTION TYPE SHALL BE COMPATIBLE WITH PIPING SYSTEM. PLUMBER TO PROVIDE AND INSTALL HEAT TAPE, RADIANT SOLUTIONS #JHSF-30-1 ON BOTH DRAINS IN COLD CLIMATES.

**OD** OD - OVERFLOW ROOF DRAIN:
J.R. SMITH #1070 WITH SAME FEATURES AS DESCRIBED FOR "ROOF DRAINS". STANDPIPES SHALL BE ADJUSTED AND SECURED SO THAT AFTER THE INSTALLATION OF THE DRAIN ASSEMBLY, THE TOP OF THE STANDPIPE SHALL BE (2") ABOVE THE ADJACENT ROOF SURFACE.

**40B** FAUCET FOR CHEM: T&S BRASS MODEL #B-0669-POL. PROVIDED BY G.C.

## FIXTURE BRANCH SCHEDULE

| FIXTURE | COLD WATER | HOT WATER | WASTE | VENT |
|---|---|---|---|---|
| WATER CLOSET (HANDICAPPED) | 1/2" | -- | 4" | 2" |
| LAVATORY | 1/2" | 1/2" | 2" | 1 1/2" |
| 2 AND 3 - COMP SINK | 1/2" | 1/2" | 3" | 2" |
| HAND SINK | 1/2" | 1/2" | 2" | 1 1/2" |
| MOP SINK (J.S.) | 1/2" | 1/2" | 3" | 2" |
| EQUIPMENT | 1/2" | -- | -- | -- |
| FLOOR DRAIN/SINK | -- | -- | 2" OR 3" | 2" |

## KITCHEN EQUIPMENT SCHEDULE

ITEMS IN THIS SCHEDULE ARE FURNISHED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE AND CONNECTED TO THE PLUMBING UTILITIES BY THE PLUMBING CONTRACTOR, WHO SHALL INSTALL ALL PLUMBING DEVICES FURNISHED WITH EQUIPMENT.

WASTE, FS = FLOOR SINK, CFD = CONDENSATE FLOOR DRAIN, VB = VACUUM BREAKER. FLEX = A SIX FOOT COILED LENGTH OF FOOD QUALITY FLEXIBLE REINFORCED PLASTIC TUBING CONNECTED FROM THE ROUGH IN TO THE EQUIPMENT WITH ALL REQUIRED ADAPTERS AND HOSE CLAMPS.

ALL PIPES MUST MAINTAIN A MINIMUM CLEARANCE OF 6" AFF AND MUST BE WELL SUPPORTED. NO FLOOR SUPPORTS ALLOWED.

**4A** SERVING COUNTER MOUNTED SODA MACHINE: IF PROVIDED, SODA MACHINE INSTALLER TO PROVIDE DRAIN LINES FROM ICE BIN AND SODA MACHINE TO FS WITH 1" AIR GAP. DRAIN LINE TO BE INSULATED. WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND RACK IN KITCHEN BY SODA MACHINE INSTALLER.

**4AB** BEVERAGE COUNTER MOUNTED SODA MACHINE WITH ICE MACHINE: PROVIDE ¾" COPPER PIPE IW FROM COUNTER TROUGH DRAIN TO FS WITH 1" AIR GAP, INSULATE. WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND RACK IN KITCHEN BY SODA MACHINE INSTALLER. NO LEGS TO BE INSTALLED. MACHINE TO SET DIRECTLY ON COUNTER.

**4F** WATER FILTER: PROVIDE ½" CW AT 96" AFF WITH BV. PROVIDE FLEX AND REDUCED PRESSURE STAINLESS STEEL BACKFLOW PREVENTOR, OR OTHER DEVICE AS REQUIRED BY LOCAL CODE. INSTALL OWNER PROVIDED WATER FILTER AND MAKE CONNECTIONS TO BACKFLOW PREVENTOR AND WATER SUPPLY. PROVIDE ALL REQUIRED FITTINGS TO ALLOW SODA MACHINE INSTALLER TO HOOK UP BOOSTER PUMP TO WATER FILTER. REFER TO DETAIL 15/P-500.

**6B** 22"D REAR COUNTER WITH HAND SINK. PROVIDE ½" CW AND ½" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED, ¼ TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX. COORDINATE 0.5 GPM FLOW RESTRICTING AERATORS WITH OWNER. PROVIDE 2" DRAIN PIPE WITH 'P' TRAP AND WALL MOUNTED CLEAN-OUT. ALL EXPOSED DRAIN PIPES AND FITTINGS TO BE CHROME PLATED, NOT P.V.C.

**9D** ICE TEA MAKER: PROVIDE ½" CW @ 24" A.F.F. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE TEA INSTALLER TO HOOK UP ONE BV, OTHER BV FOR OTHER EQUIPMENT. 1

**10J** SODA MACHINE MOUNTED ICE MACHINE. PROVIDE 1/2" CW AT 24" A.F.F. WITH BV. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE MACHINE INSTALLER TO HOOK UP ICE MACHINE TO CW.

**20A** CHINESE RANGE: PROVIDE ½" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP.
**20B** PROVIDE ½" GAS SUPPLY AT 9" AFF WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.

**20Q** CHINESE RANGE: PROVIDE ½" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP.
PROVIDE 1" GAS SUPPLY DOWN TO 9" AFF REDUCE TO ¾" AT EQUIPMENT CONNECTION WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.

**21B** FRYER: PROVIDE 1½" GAS SUPPLY DOWN TO 14" AFF THEN TRANSITION TO 1" WITH 90° ANGLE AND SHUT OFF VALVE. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS WITH 90° ANGLE. SEE DETAIL ON P-500

**23E** GRIDDLE: PROVIDE ¾" GAS SUPPLY DOWN TO 20" AFF WITH EASILY ACCESSIBLE SHUT-OFF VALVE. PROVIDE ALL REQUIRED FITTINGS. CONNECT TO UNIT WITH OWNER SUPPLIED QUICK DISCONNECT (3/4"x48", (1) SWIVEL KIT)

**25A** RICE COOKER: PROVIDE ¾" GAS SUPPLY AT 30", AND ¾" GAS SUPPLY AT 10" AFF WITH SHUT OFF VALVES, ONE FOR EACH UNIT. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS.

**31** WALK-IN COOLER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX WITH 1" HOLD-OFF SUPPORTS.

**32** WALK-IN FREEZER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX WITH 1" HOLD-OFF SUPPORTS. PROVIDE HEAT TRACE REFER TO ELECTRICAL DRAWING.

**40A** POT SINK: PROVIDE ½" CW AND ½" HW AT 14" AFF AND 8" OC WITH BVS & CV. CONNECT TO OWNER SUPPLIED FAUCET WITH COPPER PIPING. COORDINATE 2.0 GPM FLOW RESTRICTING AERATORS WITH OWNER. PROVIDE 2" COPPER PIPE IW (MANIFOLD ALL COMPARTMENT DRAINS INTO ONE LINE) TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE. INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS. SEE DETAIL ON SHEET P-500.

**40T** THAWING CABINET: 1-DOOR, STAINLESS STEEL GRIDS, 177GAL (670LT), 28 - 50°F FULLY PRESSED BOTTOM PLATE AND ROUNDED CORNERS; IT IS SUPPLIED WITH 15 AISI 304 GRIDS 2/1 AND THE RACK SUPPORT CAN BE REMOVED WITHOUT TOOLS. THE 3 FACTORY PRESET AND 1 FREE PROGRAMS. BUILT-IN REFRIGERATION UNIT WITH R134A GAS IN REFRIGERATION CIRCUIT. MEETS HACCP REQUIREMENTS. DELIVERED ON WHEELS

**41B** SINGLE BOWL PREP SINK: PROVIDE ½" CW AND ½" HW AT 14" AFF . AND 8" OC WITH
**41C** BVS. CONNECT TO OWNER SUPPLIED FAUCETS WITH COPPER PIPING. COORDINATE 1.0 GPM FLOW RESTRICTING AERATORS WITH OWNER. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS. 1

**45A** HAND SINK, PROVIDE ½" CW AND ½" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED, ¼ TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX PIPING. COORDINATE 0.5 GPM FLOW RESTRICTING AERATORS WITH OWNER. PROVIDE 2" DRAIN PIPE WITH 'P' TRAP AND WALL MOUNTED CLEAN-OUT. ALL EXPOSED DRAIN PIPES AND FITTINGS TO BE CHROME PLATED, NOT P.V.C.

**70D** POT WASHER: PROVIDE ½" SOFT WATER AND ½" HW AT AT 14" AFF AND 8" OC WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED POT WASHER. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP.

**70D1** WATER SOFTENER: PROVIDE ½" CW AT 14" AFF. ROUTE ½" SOFT WATER OUTLET TO POT WASHER INLET. PROVIDE 1" COPPER PIPE IW TO FS WITH 2" AIR GAP. 2

## PIPE MATERIAL SCHEDULE

| SERVICE | UNDERGROUND | ABOVE GROUND |
|---|---|---|
| COLD & HOT WATER | TYPE "K" OR "L" HARD DRAWN COPPER TUBE | PEX |
| SANITARY WASTE | *SCH. 40 PVC | *SCH. 40 PVC |
| SANITARY VENT | *SCH. 40 PVC | *SCH. 40 PVC |
| GAS | —— | BLACK STEEL, SCHEDULE 40 |
| INDIRECT DRAIN | —— | HARD DRAWN COPPER TUBE TYPE "M" |

*SCH. 40 PVC IS PREFERRED IF APPROVED BY AUTHORITY HAVING JURISDICTION.
PROVIDE SCHEDULE 40 PVC FOR ALL WASTE VENT PIPING & FITTINGS.

## PLUMBING KEY NOTES

1. SODA CONDUIT: PROVIDE 6" PVC CONDUIT BELOW FLOOR FROM THE SIDE OF SODA STORAGE RACK TO SODA DISPENSER PER DETAIL #4 ON SHEET P-500.
2. CONDENSATE: ROUTE SHARED CONDENSATE LINE THROUGH WALK-IN COOLER. DO NOT RUN THROUGH WALK-IN FREEZER. PROVIDE 1" INSULATED CONDENSATE DRAIN PIPE FROM THE EVAPORATIVE COIL. DISCHARGE TO FLOOR SINK OR MOP SINK WITH AIR GAP OF TWICE PIPE DIAMETER. INSTALL AT MINIMUM 76" HEIGHT A.F.F. REFER TO DETAIL #2 ON SHEET P-500.
3. PROVIDE TRAP PRIMER FOR FLOOR SINK. SEE DETAIL 17/P-500.
4. RDL & ODL LINES DN. IN WALL. TERMINATE ODL THRU WALL AS CLOSE TO BOTTOM PLATE AS POSSIBLE. EXTEND 1/2" PAST EFIS. WATER PROOF SEAL ALL AROUND. TERMINATE ODL WITH 4" PVC LAMB'S TONGUE NOZZLE, COLOR ANTIQUE BRONZE, ARKMANN MODEL #PDN-4. (IF AVAILABLE TIE RD TO STORM SEWER UNDERGROUND)
5. COMBINATION WASTE/VENT
6. LAV. TAILPIECE WITH TRAP PRIMER, RUN ½" CW BELOW FLOOR TO FLOOR DRAIN, SEE DETAIL #9 ON PLAN P-500.
7. (AAV) STUDOR MINI-VENT AIR ADMITTANCE VALVE- INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. WYE WITH CLEANOUT ON TOP

## FIXTURE UNIT SCHEDULE

| ITEM | FIXTURE | QTY | WATER FU EACH | WATER FU TOTAL | SEWER FU EACH | SEWER FU TOTAL |
|---|---|---|---|---|---|---|
| A | WATER CLOSET | 2 | 5 | 10 | 4 | 8 |
| B | LAVATORY | 2 | 2 | 4 | 1 | 2 |
| D D1 | FLOOR DRAIN 3" TRAP | 6 | ___ | ___ | 5 | 30 |
| E E1 | FLOOR SINK 3" TRAP | 9 | ___ | ___ | 5 | 45 |
| P1 | MOP SINK | 1 | 3 | 3 | 2 | 2 |
| G | FLOOR DRAIN W/ FUNNEL 2" TRAP | 2 | ___ | ___ | 3 | 6 |
| L L1 | HOSE BIBB | 3 | 4 | 12 | ___ | ___ |
| M M1 | TRENCH DRAIN 3" TRAP | 2 | ___ | ___ | 5 | 10 |
| 4F | FILTER SYSTEM | 1 | 1 | 1 | FS | ___ |
| 9D | ICE TEA BREWER | 2 | 1 | 2 | FS | ___ |
| 10J | 400 LB ICE MACHINE | 2 | 1 | 2 | FS | ___ |
| 20A | CHINESE RANGE | 1 | 2 | 2 | FS | ___ |
| 20Q | CHINESE RANGE | 2 | 2 | 4 | FS | ___ |
| 40A 40B | POT SINK (3.COMP.) | 1 | 4 | 4 | FS | ___ |
| 41B 41C | PREP. SINK (1.COMP.) | 2 | 4 | 8 | FS | ___ |
| 45A 6B | HAND SINK (WALL MOUNT) | 3 | 2 | 6 | 1 | 3 |
| 40T | THAWING CABINET | 1 | - | - | FS | ___ |
| 70D | DISHWASH | 1 | 4 | 4 | FS | ___ |
| TOTAL | | | | 62 | | 106 |

## FIXTURE UNIT SUMMARY

| SERVICE | TOTAL F.U. |
|---|---|
| DOMESTIC WATER | 62 |
| SANITARY SEWER | 106 |

## SERVICE REQUIREMENTS

| SERVICE | SIZE MAIN | | CAPACITY | |
|---|---|---|---|---|
| DOMESTIC WATER | 1-1/2 | INCH | 32 | GPM |
| SANITARY SEWER | 4 | INCH | 106 | F.U. |
| FUEL GAS | 3 | INCH | 2,726 | CFH |
| FIRE PROTECTION | | INCH | | GPM |

## WATER PIPE SIZING CHART (COLD WATER)

| PIPE SIZE | GPM | VELOCITY FT/SEC | FIXTURE UNITS F - TANK | F - VALVE |
|---|---|---|---|---|
| 1/2" | 2.5 | 3.5 | 2 F.U. @ psi 6.0 | F.U. @ psi |
| 3/4" | 6.6 | 4.4 | 8 F.U. @ psi | F.U. @ psi |
| 1" | 13.4 | 5.2 | 19 F.U. @ psi | F.U. @ psi |
| 1-1/4" | 23.3 | 5.9 | 37 F.U. @ psi | 6 F.U. @ psi |
| 1-1/2" | 36.7 | 6.6 | 74 F.U. @ psi | 23 F.U. @ psi |
| 2" | 76.4 | 7.9 | 254 F.U. @ psi | 132 F.U. @ psi |

* DOMESTIC WATER BACKFLOW PREVENTER MODEL: "WILKINS"975XL SIZE 1-1/2"
** PRESSURE REGULATING VALVE MODEL: N/A SIZE N/A

## WATER PIPE SIZING CHART (HOT WATER)

| PIPE SIZE | GPM | VELOCITY FT/SEC | FIXTURE UNITS F - TANK | F - VALVE |
|---|---|---|---|---|
| 1/2" | 2.5 | 3.5 | 2 F.U. @ psi | F.U. @ psi |
| 3/4" | 6.6 | 4.4 | 8 F.U. @ psi | F.U. @ psi |
| 1" | 13.2 | 5.0 | 19 F.U. @ psi | F.U. @ psi |
| 1-1/4" | 19.0 | 5.0 | 37 F.U. @ psi | 6 F.U. @ psi |

## GREASE INTERCEPTOR CALCULATION

RESTAURANT INTERCEPTOR:
NUMBER OF SEATS X 15GALLONS = INTERCEPTOR CAPACITY
66 SEATS X 15 GALLONS = 990 GALLON MINIMUM CAPACITY INTERCEPTOR 2

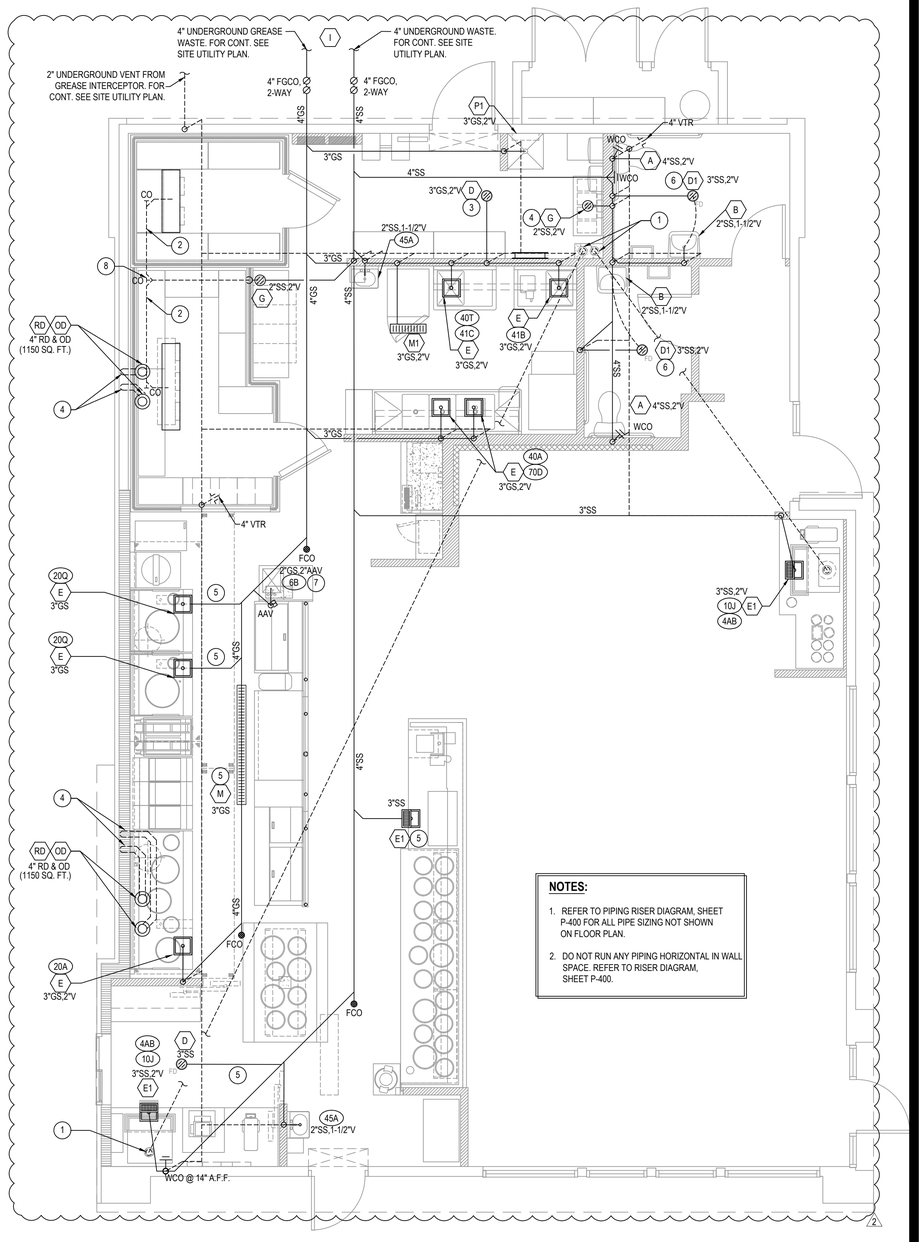
GREASE INTERCEPTOR SIZE = 1,500 GALLONS

-

TRASH ENCLOSURE INTERCEPTOR:
10-30 MINUTE RETENTION AT PEAK FLOW
ENCLOSURE DRAIN = 3" DRAIN PIPE DIAMETER
AT FULL FLOW AND 1/8" SLOPE PER FOOT FOR 20' = 15 GPM
15 GPM X 10 MINUTES = 150 GALLON MINIMUM CAPACITY INTERCEPTOR

GREASE INTERCEPTOR SIZE = 200 GALLONS

SIZING CRITERIA PER NEWTON COUNTY WATER AND SEWERAGE AUTHORITY
RULES AND REGULATIONS FOR SEWER USE AND INDUSTRIAL PRETREATMENT PROGRAM




**NOTES:**

1. REFER TO PIPING RISER DIAGRAM, SHEET P-400 FOR ALL PIPE SIZING NOT SHOWN ON FLOOR PLAN.
2. DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE. REFER TO RISER DIAGRAM, SHEET P-400.

WASTE & VENT PLAN 1
Scale: 1/4"=1'-0" P-101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REVISIONS:

| | |
|---|---|
| 1 | 12.30.21 PERMIT COMMENTS |
| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

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ST #040481

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# P-101

WASTE & VENT PLAN

TRUE WARM & WELCOME 2300 R6

NOTE:
INCLUDE OPTIONAL ½" SWIVELS &
½" BALL VALVES ON MANIFOLDS

1" WATER SUPPLY INLET

COLD WATER MANIFOLD "C" ZURN QPPM10-3

41C C1 C2 41B
4F C3 C4 20A
20Q C5 C6 A
L1 C7 C8 A
45A C9 C10 B

1" WATER SUPPLY INLET

COLD WATER MANIFOLD "D" ZURN QPPM20-3

P1 D1 D2 L
45A D3 D4 40B
40A D5 D6 6B
O D7 D8 L1
10L D9 D10 B
20Q D11 D12 70D1
D13 D14
D15 D16
D17 D18
D19 D20

2

FROM WATER HEATER P3

HOT WATER MANIFOLD "A" ZURN QPPM10-3

40A A1 A2 P1
41B A3 A4 41C
40B A5 A6 70D
A7 A8
A9 A10

2

NOTE:
DO NOT RUN ANY PIPING
HORIZONTAL IN WALL SPACE
UNLESS NOTED OTHERWISE.

RE: 5/P-400
CP
P3
RE: 5/P-400
1/2"HWR
MANIFOLD "A"
3/4"HW
B 1/2"HW
3/4"HW
3/4"HW
B 1/2"HW
45A 1/2"HW
1/2"HW
6B 1/2"HW
1/2"HW BELOW SLAB
1/2"HW
1/2"HW
45A 1/2"HW
2

HAND SINK/LAVATORY HOT WATER LOOP

PEX WATER LINE. REFER PLUMBING PLANS & RISER DIAGRAM FOR SIZING. INSULATE PER SPECIFICATIONS
COUPLING
COPPER STUB-OUT AT EACH FIXTURE. **DO NOT STUB OUT WITH PEX MATERIAL**
PIPE BRACE
WALL STUDS

PEX STUB OUT DIAGRAM

NOTE:
PROPERLY STRAP LINES AND PROVIDE PROTECTIVE GROMMETS WHEN RUNNING THROUGH METAL STUDS

INSTALL MCDONALD MODEL 2054S 1/2" INLINE CHECK VALVES ABOVE CEILING
LINE OF CEILING
1/2" H&CW
ROUGH-IN ½" H & CW LINES @+50" A.F.F, INSTALL FAUCET CLEARLY DESIGNATE HOT & COLD WATER.
40B
40A 3-COMP. SINK

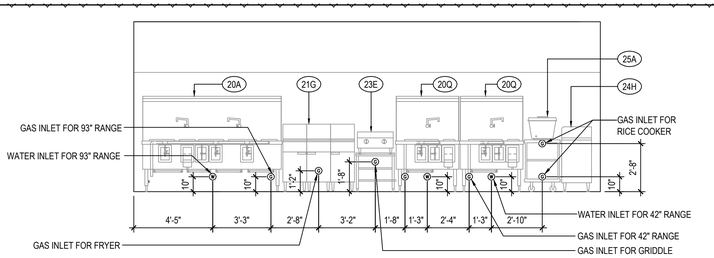
CHEMICAL FEED SYSTEM PIPING DIAGRAM

NOTE:
G.C. SHALL VERIFY WITH LOCAL JURISDICTION ON REQUIRED METHOD OF CHEMICAL SYSTEM INSTALLATION AS SHOWN ABOVE. IF THE ABOVE DETAIL IS NOT ALLOWED BY LOCAL JURISDICTION, THEN THE SYSTEM SHALL BE INSTALLED IN-LINE/INTERGRATED INTO 3 COMPARTMENT SINK.

MANIFOLD INSTALL DIAGRAM

NOTE:
IN ROOM WHERE PEX MANIFOLD IS LOCATED, PEX LINES AND MANIFOLD SHALL BE SURFACE MOUNTED TO WALL BELOW LAY-IN CEILING. TURN LINES BACK INTO THE WALL AFTER SHUTOFF VALVES.

| WATER RISER DIAGRAM | 11 |
|---|---|
| NO SCALE | P-400 |




## GAS COOKLINE ELEVATION 4

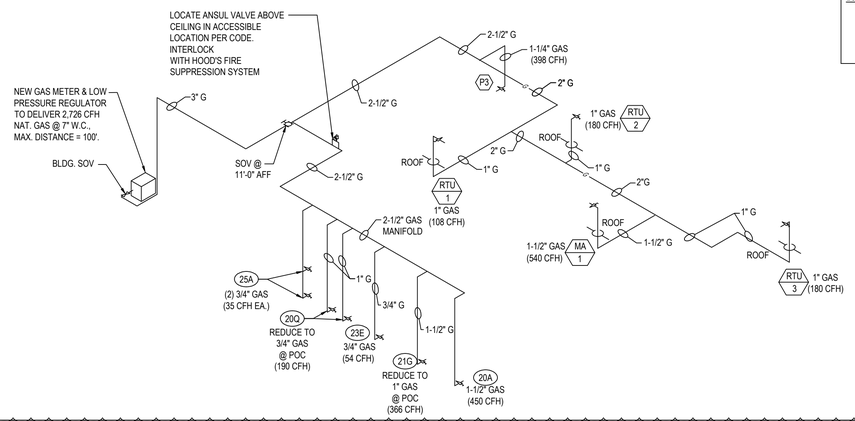
NO SCALE P-400

## GAS EQUIPMENT SCHEDULE

| ITEM | QTY | EQUIPMENT | MBH EACH | CFH EACH | CFH TOTAL |
|---|---|---|---|---|---|
| P3 | 2 | WATER HEATER | 199 | 199 | 398 |
| 20A | 1 | CHINESE RANGE | 450 | 450 | 450 |
| 20Q | 2 | CHINESE RANGE | 190 | 190 | 380 |
| 21B | 3 | DEEP FRYER | 122 | 122 | 366 |
| 23E | 1 | GRIDDLE | 54 | 54 | 54 |
| 25A | 2 | RICE COOKER | 35 | 35 | 70 |
| RTU-1 | 1 | AIR CONDITIONER | 108 | 108 | 108 |
| RTU-2,3 | 2 | AIR CONDITIONER | 180 | 180 | 360 |
| MAU-1 | 1 | MAKE-UP AIR | 540 | 540 | 540 |
| TOTAL | | | | | 2,726 |

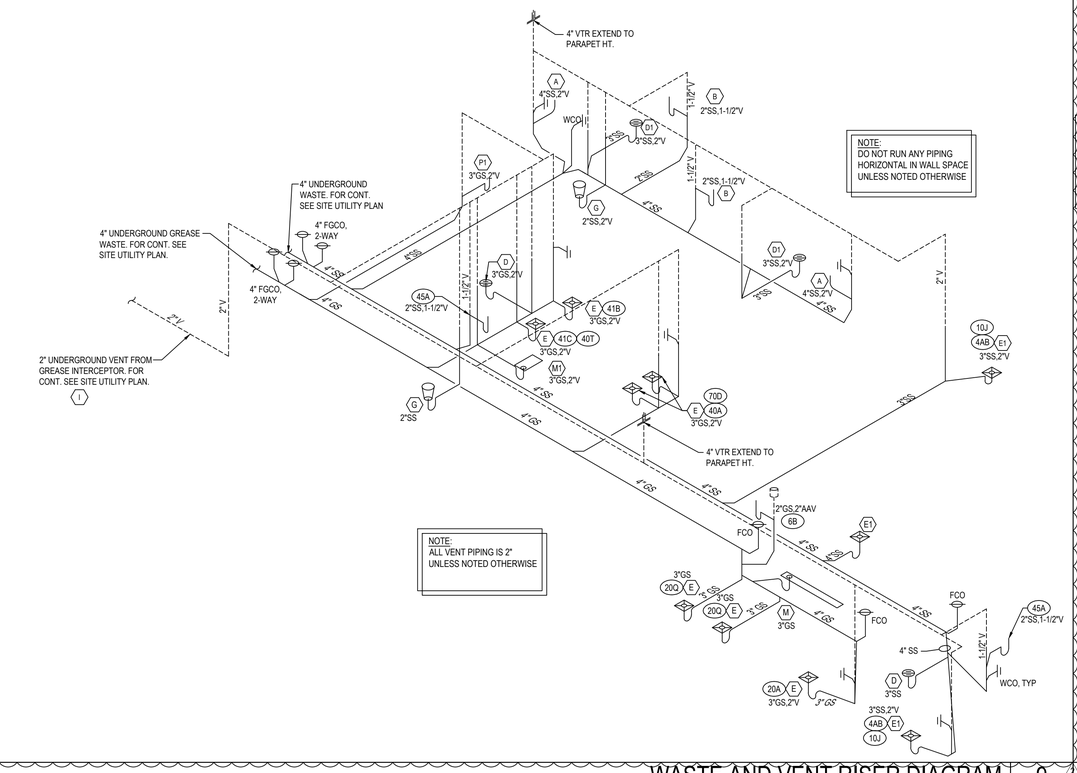
LOW PRESSURE NATURAL GAS CALCULATION
SIZED PER 2015 IFGC TABLE 402.4(2)
TOTAL DEVELOPED LENGTH: 100'
TOTAL LOAD: 2,726 CFH

NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE




## GAS RISER DIAGRAM 3 2

NO SCALE P-400

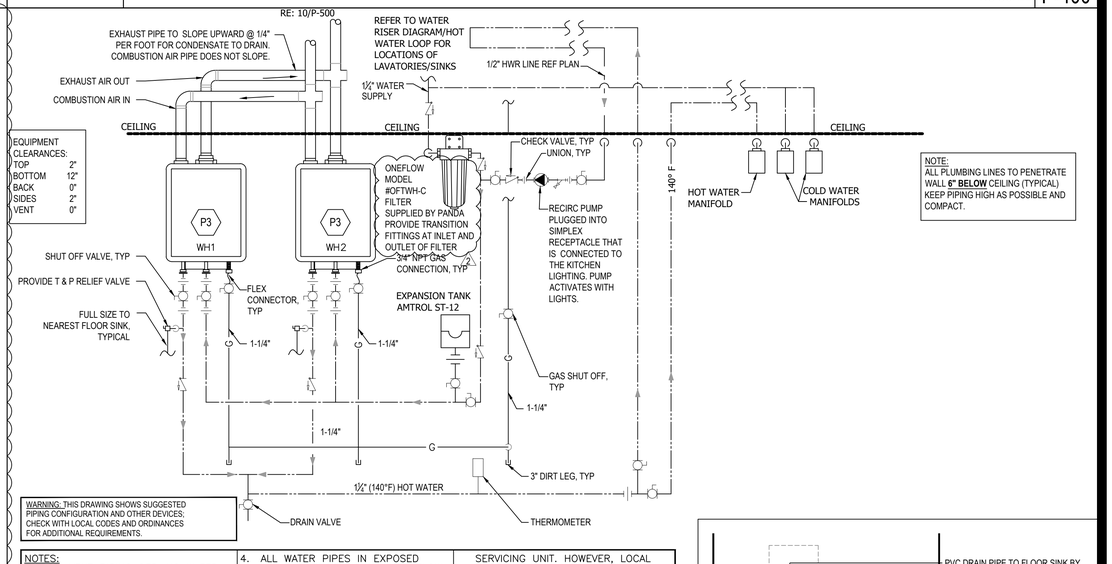



NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE UNLESS NOTED OTHERWISE

NOTE:
ALL VENT PIPING IS 2" UNLESS NOTED OTHERWISE

## WASTE AND VENT RISER DIAGRAM 9

NO SCALE P-400



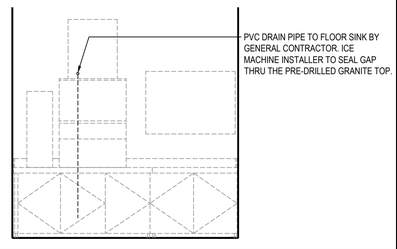

NOTE:
ALL PLUMBING LINES TO PENETRATE WALL **5" BELOW** CEILING (TYPICAL) KEEP PIPING HIGH AS POSSIBLE AND COMPACT.

WARNING: THIS DRAWING SHOWS SUGGESTED PIPING CONFIGURATION AND OTHER DEVICES; CHECK WITH LOCAL CODES AND ORDINANCES FOR ADDITIONAL REQUIREMENTS.

NOTES:
1. ALL VENT PIPING SERVING WATER HEATERS SHALL TRANSITION TO 3" IMMEDIATELY AFTER CONNECTION. MANIFOLD BOTH VENTS TOGETHER AND ROUTE PIPING UP THROUGH THE CEILING TO THE ROOF. AVOID UNNECESSARY BENDS.
2. AVOID RUNNING WATER PIPING DIRECTLY ABOVE WATER HEATER TO AVOID DAMAGE TO WATER HEATER CAUSED BY POSSIBLE LEAKS.
3. DO NOT INSTALL VALVES, EQUIPMENT OR PIPING MAINS DIRECTLY OVER THE WATER HEATERS P3
4. ALL WATER PIPES IN EXPOSED AREAS OUTSIDE WALLS AND BELOW CEILING MUST BE COPPER UNLESS NOTED OTHERWISE.
5. DIAGRAM ONLY. ADJUST LAYOUT TO SPECIFIC FLOOR PLAN AND FOLLOW CONNECTIONS PER THIS DIAGRAM
6. INSTALL ALL DEVICES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
7. PREFERRED PIPING DIAGRAM. THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.
8. SERVICE VALVES ARE SHOWN FOR SERVICING UNIT. HOWEVER, LOCAL CODES SHALL GOVERN THEIR USAGE.
9. REF. TO DETAIL 13/P-500 FOR ALL LINES TO BE INSULATED.
10. REF. TO PLUMBING FIXTURE SCHEDULE ON SHEET P-101.
11. INSTALL EXPANSION TANK AS CLOSE TO THE CEILING AS POSSIBLE.
12. ALL PIPING BELOW IS TO BE HELD AS TIGHT TO THE BOTTOM OF THE TANKS AS POSSIBLE.

## HOT WATER SYSTEM DIAGRAM 5

NO SCALE P-400




## DRINK STATION PLUMBING 1

NO SCALE P-400

PANDA EXPRESS CHINESE KITCHEN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| 2 | 02.08.22 PROTOTYPE UPDATE |

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# P-400

WATER, GAS, WASTE & VENT RISER DIAGRAMS

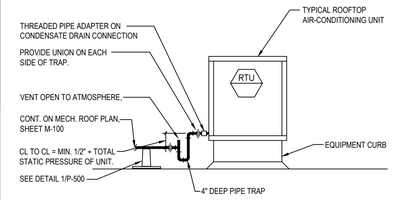
TRUE WARM & WELCOME 2300 R6

## NOT USED 19

Scale: NO SCALE P-500

## A.C. UNIT CONDENSATE DRAIN 16

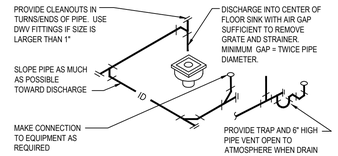
NOTE: IF ROOF DRAIN DOES NOT DRAIN TO PARKING/DRIVE SURFACE, THEN CONDENSATE TO DRAIN TO ROOF DRAIN. IF ROOF DRAINS TO PARKING/DRIVE SURFACE, THEN CONDENSATE TO DRAIN TO FLOOR SINK INSIDE STORE.
MIN. TRAP DEPTH 4". CENTERLINE OUTLET TO CENTERLINE DRAIN 1/2" PLUS UNIT TOTAL STATIC PRESSURE AS A MINIMUM. DISTANCE FROM OUTLET TO TRAP NOT LESS THAN 2 PIPE DIAMETERS.




NOTE:
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. DO NOT PROVIDE TRAP ON UNITS WHICH HAVE AN INTERNAL TRAP.
2. DRAIN LINES TO BE TYPE L COPPER.
3. FOR BLOW-THROUGH TYPE EQUIPMENT, ADJUST PTRAP DEPTH TO 1/2" PLUS TOTAL STATIC PRESSURE OF UNIT.

Scale: NO SCALE P-500

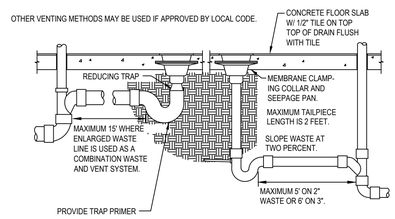
## INDIRECT DRAIN 12




NOTE:
1. ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY.
2. HANG PIPE AS REQUIRED.
3. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

Scale: NO SCALE P-500

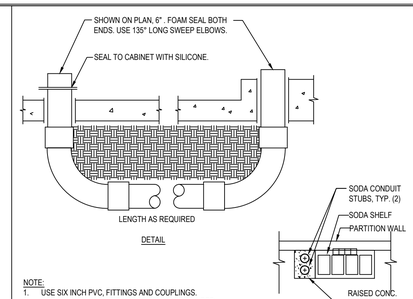
## FLOOR DRAIN/SINK 8




NOTE:
1. LOCATE FLOOR DRAIN/SINK WHERE SHOWN ON DIMENSIONED ARCHITECTURAL PLAN. IF FLOOR STRUCTURE INTERFERES WITH FLOOR SINK, MOVE SIDEWAYS IF POSSIBLE, OTHERWISE MOVE BACK. ALWAYS LOCATE WHERE EASILY ACCESSIBLE, BUT NOT IN FOOT TRAFFIC.
2. IF SITUATION IS FLOOR SLAB ON GRADE, PROVIDE BACKFILL PER SPECIFICATIONS. IF CONCRETE FLOOR IS NOT EXISTING, SET DRAIN IN PLACE AND POUR AROUND IT, OR BLOCK OUT AND POUR IN LATER.
3. IF CONCRETE FLOOR IS EXISTING, SAW CUT OR CORE DRILL IT. SET DRAIN BODY IN PLACE AND POUR AROUND IT.
4. TOP OF THE FLOOR SINK / DRAIN SHOULD BE SET AT THE SAME ELEVATION AS THE SLAB AND THEN DISHED OUT ½" AT THE DRAIN SLOPING TO NOTHING AT THE 2' RADIUS POINT.
5. IF SITUATION IS FLOOR NOT ON GRADE, REFER TO "FLOOR PENETRATION" DETAIL FOR VENTS.
6. PROVIDE TRAP PRIMER FOR FLOOR DRAINS IN RESTROOMS.

Scale: NO SCALE P-500

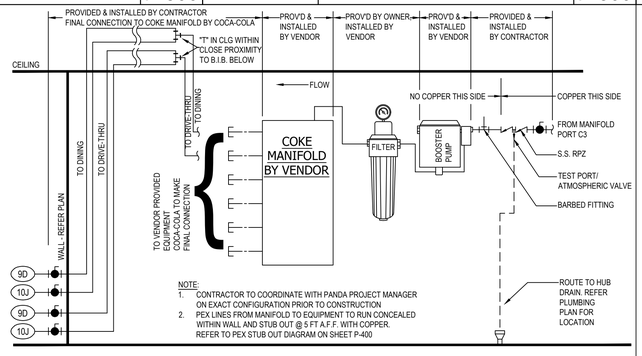
## BELOW-GROUND SODA CONDUIT 4




NOTE:
1. USE SIX INCH PVC, FITTINGS AND COUPLINGS.
2. USE MINIMUM QUANTITY OF COUPLINGS REQUIRED, SEALED WATER-TIGHT.
3. USE LONG SWEEP ELBOWS AT BOTH ENDS, MINIMUM TWENTY FOUR INCH RADIUS.
4. AVOID ELBOWS IN HORIZONTAL RUN IF AT ALL POSSIBLE.
5. DO NOT USE 45° ELBOWS.

Scale: NO SCALE P-500

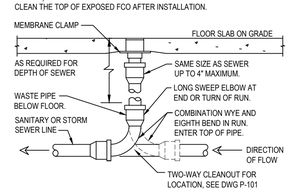
## BAG-N-BOX DETAIL 15




NOTE:
1. CONTRACTOR TO COORDINATE WITH PANDA PROJECT MANAGER ON EXACT CONFIGURATION PRIOR TO CONSTRUCTION
2. PEX LINES FROM MANIFOLD TO EQUIPMENT TO RUN CONCEALED WITHIN WALL AND STUB OUT @ 5 FT A.F.F. WITH COPPER. REFER TO PEX STUB OUT DIAGRAM ON SHEET P-400

Scale: NO SCALE P-500

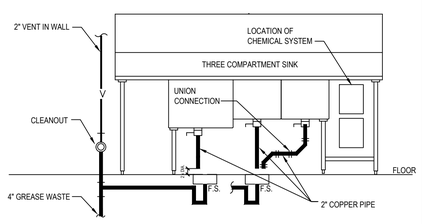
## FLOOR CLEANOUT 11




NOTE:
1. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS.
2. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS.
3. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND.
4. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

Scale: NO SCALE P-500

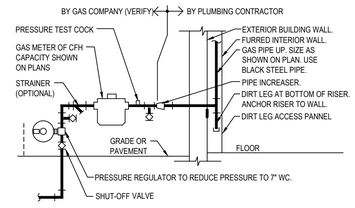
## UTILITY/SINK 7




NOTE:
1. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS.
2. PROVIDE COPPER PIPE, FITTINGS AND CONNECTORS ALL AROUND SINK AND TRAP.

Scale: NO SCALE P-500

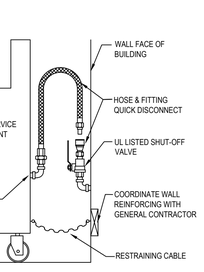
## GAS SERVICE 3




NOTE:
1. VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY.
2. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE.
3. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION.
4. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECS.
5. GAS COMPANY SHALL EXCAVATE, BACKFILL, AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING.
6. PAINT EXPOSED METAL GAS PIPE, FITTINGS AND ITEMS SAFETY YELLOW.

Scale: NO SCALE P-500

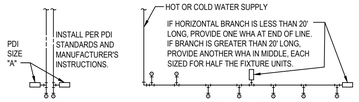
## QUICK DISCONNECT 18




NOTE:
1. IF UTILITY IS NOT AT FULL HEIGHT SHOWN. PROVIDE PIPING WITH ELBOWS TO RAISE INLET

Scale: NO SCALE P-500

## WATER HAMMER ARRESTERS 14



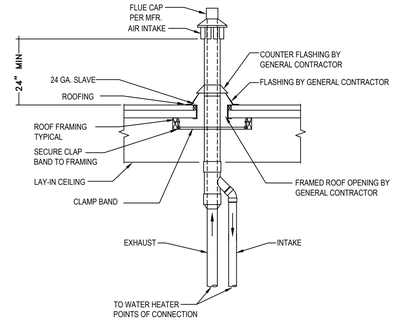

| PDI SIZE | PIPE SIZE | FIXTURE UNIT LOAD |
|---|---|---|
| A | 1/2" | 1-11 |
| B | 3/4" | 12-32 |
| C | 1" | 33-60 |
| D | 1-1/4" | 61-113 |
| E | 1-1/2" | 114-154 |
| F | 2" | 154-330 |

| FIXTURE UNIT TABULATION | | |
|---|---|---|
| FIXTURE | COLD | HOT |
| VALVE WATER CLOSET | 10 | -- |
| TANK WATER CLOSET | 5 | -- |
| URINAL | 5 | -- |
| LAVATORY/SINK | 1.5 | 1.5 |
| JANITOR'S SINK | 3 | 3 |
| SHOWER/BATHTUB | 2 | 2 |

NOTE:
1. DO NOT PROVIDE AIR CHAMBERS.
2. PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION.
3. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN.
4. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE
5. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

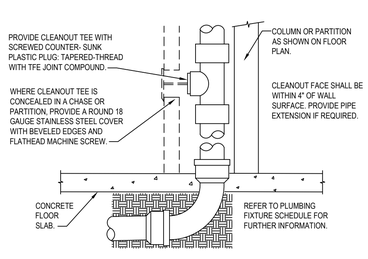
Scale: NO SCALE P-500

## CONCENTRIC VENT DETAIL 10




Scale: NO SCALE P500

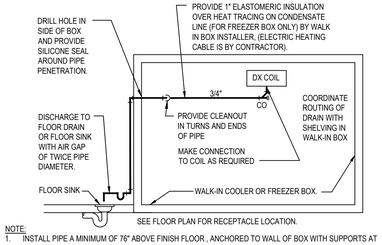
## WALL CLEANOUT 6




NOTE:
1. PROVIDE WCO WHERE SHOWN ON PLAN. LOCATE ABOVE FIXTURE FLOOD RIM .
2. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

Scale: NO SCALE P-500

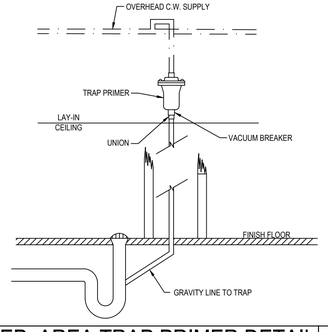
## WALK - IN BOX CONDENSATE DRAIN 2




NOTE:
1. INSTALL PIPE A MINIMUM OF 76" ABOVE FINISH FLOOR , ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS.
2. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS.
3. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT.
4. KEEP DRAIN LINE FROM EVAPORATOR AS HIGH AS POSSIBLE UNDER THE EVAPORATOR BACK TO THE WALL TO MAXIMIZE SHELF SPACE UNDER THE COIL.
5. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.
6. INDIVIDUAL CONDENSATE LINES FROM EACH EVAPORATOR TO BE ¾" UNTIL JOINED. CONDENSATE LINE TO BE 1" AFTER UNION.

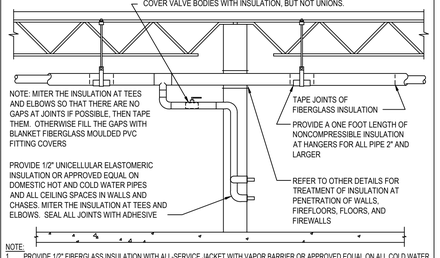
Scale: NO SCALE P-500

## PREP. AREA TRAP PRIMER DETAIL 17




Scale: NO SCALE P-500

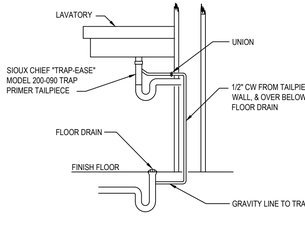
## PIPE INSULATION 13




NOTE:
1. PROVIDE 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER OR APPROVED EQUAL ON ALL COLD WATER, CONDENSATE, AND STORM DRAIN PIPE UP TO 4".
2. PROVIDE 1" INSULATION OR APPROVED EQUAL ON STORM DRAIN PIPE ABOVE 4" SIZE.
3. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET OR APPROVED EQUAL ON DOMESTIC HOT WATER PIPING.
4. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS.
5. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE.
6. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50.
7. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

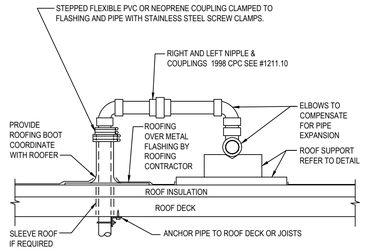
Scale: NO SCALE P-500

## RESTROOM TRAP PRIMER DETAIL 9




Scale: NO SCALE P-500

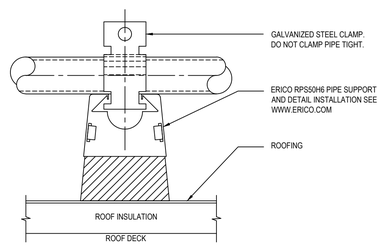
## GAS PIPE ROOF PENETRATION 5




NOTE:
1. REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S).
2. WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE.
3. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS.

Scale: NO SCALE P-500

## ROOF PIPE SUPPORT 1




NOTE:
1. LOCATE AT TURNS OF PIPE, AT 4' SPACING FOR PLASTIC PIPE, AND AT THIS SPACING FOR METAL PIPE: 5"=16' 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1-1/4"=8' 1"=7' 3/4"=6'. PLACE BASE SHEETS ON ROOFING BEFORE GRAVEL IF ANY. SET BLOCKS FREE ON BASE SHEETS. STACK BLOCKS AND NAIL THEM TOGETHER WHERE REQUIRED TO ELEVATE PIPING.
2. PRIMER COAT AND PAINT EXTERIOR GAS PIPE SAFETY YELLOW COLOR.
3. 18"x18"x1/2" THICK ROOF WALKWAY MATERIAL FOR BASE SHEET. ("CAREY-TRED" OR PER ARCHITECTURAL SPECIFICATIONS.)

Scale: NO SCALE P-500


PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
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91770
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Facsimile: 626.372.8288



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DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
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02.08.2022

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JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

P-500

PLUMBING DETAILS

TRUE WARM & WELCOME 2300 R6

# PACKAGED ROOF TOP UNIT SCHEDULE

(LENNOX MODELS TO BE SPECIFIED)
(LO NoX in California)

| UNIT SYMBOL | | RTU 1 (NEW) | RTU 2 (NEW) | RTU 3 (NEW) |
|---|---|---|---|---|
| LOCATION | | ROOF | ROOF | ROOF |
| BLOWER | SA CFM (TONS)/ OA CFM | 2,400 (6-TON)/ 500 | 4,000 (10-TON)/ 750 | 4,000 (10-TON)/ 750 |
| | TSP (IN W.G.) | 0.88" | 1.24" | 1.24" |
| COOLING | TOTAL (BTU/HR) | 72,400 | 121,200 | 121,200 |
| | SENSIBLE (BTU/HR) | 57,200 | 94,300 | 94,300 |
| | AMBIENT ( F) | 95 | 100 | 100 |
| | COIL ENTERING | 67 WB/80 DB | 67 WB/81 DB | 67 WB/81 DB |
| HEATING (NATURAL GAS BTU/HR) | | STAGE (1) 81,000 STAGE (2) 108,000 | STAGE (1) 144,000 STAGE (2) 180,000 | STAGE (1) 144,000 STAGE (2) 180,000 |
| ELECTRICAL | POWER SUPPLY | 208V/3Ph/60HZ | 208V/3Ph/60HZ | 208V/3Ph/60HZ |
| | COMPRESSOR (RLA) | 19.6 | (2) 27.0 | (2) 27.0 |
| | CONDENSER MOTOR (FLA) | (1) 2.4 | (1) 4.8 | (1) 4.8 |
| | EVAPORATOR MOTOR (FLA) | 4.6 | 10.6 | 10.6 |
| | MIN. CIRCUIT AMPACITY | 32, HACR = 45 | 46, HACR = 50 | 46, HACR = 50 |
| | | PANDA NATIONAL ACCOUNT. NO SUBSTITUTION ALLOWED. FOR PRICING AND ORDERS CONTACT LENNOX NA @ 800-367-6285 FOR INSTALLATION AND START-UP QUESTIONS CONTACT LENNOX NA TECH SUPPORT @ 800-367-6285 EXT. #1 FOR CUSTOMER SERVICE EXT. #2 FOR NAT ACC TECH SUPPORT EMAIL NATS@LENNOXIND.COM SUBJECT LINE: PANDA EXPRESS STORE "#" CITY, STATE | BY LENNOX MODEL KGB074H4T DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 858 LBS APPROX. IEER=16.0, EER=12 | BY LENNOX MODEL KGA120H4M DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLEL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 1,337 LBS APPROX. IEER=13.8, EER=12.0 | BY LENNOX MODEL KGA120H4M DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLEL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 1,337 LBS APPROX. IEER=13.8, EER=12.0 |

ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTACT LENNOX REPRESENTATIVE ABOVE.
- THERMOSTATS: REMOTE SENSOR TYPE, 24/7 PROGRAMMABLE AND CAPABLE OF OPERATING ROOFTOP UNITS AND ACCESSORIES
- DUCT MOUNTED SMOKE DETECTORS: IONIZATION TYPE/UL LISTED

NOTE:
1. UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB.
2. FACTORY COATED EVAPORATOR COIL ON ALL UNITS
3. FACTORY COATED CONDENSER COIL ON ALL UNITS
4. SINGLE ENTHALPY ECONOMIZER, HIGH PERFORMANCE, LOW-LEAK DAMPERS, W/ GRAVITY EXHAUST
5. RETURN AIR SMOKE DETECTOR (FIELD INSTALLED)
6. FACTORY HINGED ACCESS DOORS
7. MERV 8 PLEATED FILTERS
8. MULTI SPEED (MSAV) BLOWER MOTORS
9. STANDARD 14" ROOF CURB
10. COIL GUARDS (FIELD INSTALL)
11. FACTORY DISCONNECT
12. FACTORY GFCI (FIELD WIRED)
13. LENNOX COMMERCIAL CS7500 THERMOSTAT WITH REMOTE SENSOR (FIELD WIRED)

# EXHAUST FAN SCHEDULE

| FAN NO. | | EF 1 | EF 2 | EF 3 |
|---|---|---|---|---|
| LOCATION | | ROOF | ROOF | ROOF |
| AREA SERVED | | KITCHEN GREASE EXHAUST HOOD #1 | KITCHEN GREASE EXHAUST HOOD #2 | RESTROOMS |
| FAN DUTY | | AIR EXHAUST | AIR EXHAUST | AIR EXHAUST |
| FAN TYPE | | CENTRIFUGAL DIRECT DRIVE | CENTRIFUGAL DIRECT DRIVE | CENTRIFUGAL DIRECT DRIVE |
| FAN ARRANGEMENT | | UPBLAST | UPBLAST | DOWNBLAST |
| MIN. WHEEL DIAMETER | | - | - | - |
| PERFORMANCE | C.F.M. | 3,400 | 2,900 | 450 |
| | T.S.P. | 1.59" | 1.178" | 0.25" |
| | B.H.P. | 2.0 | 1.26 | 0.081 |
| | FAN R.P.M. | 1,248 | 1,072 | 1,220 |
| MOTOR | MOTOR H.P. | 5.0 | 3.0 | 0.25 |
| | ELEC. CHARACTERISTICS | 208V/3PH/60HZ | 208V/3PH/60HZ | 115V/1PH/60HZ 2 |
| | MOTOR R.P.M. | 1725 | 1725 | - |
| | MOTOR SPECIAL FEATURES | OPEN DRIP-PROOF | OPEN DRIP-PROOF | OPEN DRIP-PROOF |
| ACCESSORIES | | 1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS | 1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS | 1. ROOF CURB 2. BACKDRAFT DAMPER |
| MANUFACTURER | | CAPTIVEAIRE MODEL:DU200HFA WT. 251 LBS | CAPTIVEAIRE MODEL:DU200HFA WT. 243 LBS | CAPTIVEAIRE MODEL:DR12HFA WT. 65 LBS |

## NOTES:

1. KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND ROOFTOP UNITS.
2. FOR WIRING DIAGRAM SEE 5/M-501

# HVAC CONTROL SETTINGS

EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:

THERMOSTAT: LENNOX COMMERCIAL PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSOR. SEE SHEET M-100 FOR THERMOSTAT AND SENSOR LOCATIONS.

ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE.

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.

FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.

PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT):
- COOLING OCCUPIED: 75°F.
- COOLING UNOCCUPIED: 85°F.
- HEATING OCCUPIED: 68°F.
- HEATING UNOCCUPIED: 50°F.

NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.

# AIR CURTAIN SCHEDULE

| EQUIP. | MFR/MODEL | DESCRIPTION |
|---|---|---|
| M8A | MARS STD242-1U-OB | UNHEATED AIR CURTAIN (SERVICE DOOR). 115/1/60 WEIGHT 65 LBS. PROVIDED BY PANDA EXPRESS. |
| M8C | MARS STD236-1U-OB | UNHEATED AIR CURTAIN (SERVICE DOOR). 115/1/60 WEIGHT 60 LBS. PROVIDED BY PANDA EXPRESS. |
| M9A | QUICK SERV CF-25 | AIR CURTAIN (WINDOW NON-HEATED). 120/1/60, 20 AMP WEIGHT 30 LBS REFERENCE ARCHITECTURAL WINDOW SCHEDULE FOR HEATED OR NON-HEATED UNIT. PROVIDED BY GC. 2 |

NOTES:
INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

# MA-1 CONTROL SETTINGS

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

FAN OPERATION SHALL BE CONTINUOUS DURING COOKING OPERATION INTERLOCK WITH KITCHEN EXHAUST FANS. REFER TO HOOD DRAWINGS.

PROGRAMMED SETPOINTS :
- COOLING : 85°F.
- HEATING : 55°F.

# MECHANICAL SPECIFICATIONS

1. WORK INCLUDES INSTALLATION OF HVAC SYSTEMS, INCLUDING GREASE EXHAUST FANS AND MAKE-UP AIR UNIT FOR KITCHEN HOODS, SPACE HEATING/AIR CONDITIONING SYSTEMS, SUPPLY, RETURN, EXHAUST, AND GREASE EXHAUST DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, COMPLETE CONTROLS SYSTEM, INTERLOCK WIRING FOR OPERATION OF KITCHEN HOODS, EXHAUST FANS, AND MAKE-UP AIR UNIT, DUCT INSULATION, AND RELATED ITEMS NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM AS INDICATED ON THE PLANS. FURNISH ALL NEW MATERIALS AND EQUIPMENT UNLESS NOTED OTHERWISE (U.N.O.).
2. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. AS REQUIRED, REFER TO ARCHITECTURAL AND MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT SHOWN ON PLANS.
3. CODE COMPLIANCE: ALL WORK COVERED BY THIS SECTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
4. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS AND OWNER REQUIREMENTS. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR INSTALLATION AND/OR TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN AND THEIR WORK SHALL BE OF HIGH STANDARD ACCEPTABLE TO THE OWNER.
5. DUCTWORK: DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN THE INT'L ENERGY AND MECHANICAL CODES. SHEET METAL SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SHEET METAL SHALL BE GALVANIZED OF LOCK-FORMING QUALITY, ASTM A-525. UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR SHEET METAL DIMENSIONS ON UNLINED DUCTS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. ROUND RIGID DUCTWORK SHALL CONFORM TO SMACNA TABLE 3-2.
6. INSTALL DUCT HIGH AS POSSIBLE WITHIN JOIST SPACE. CONSULT ARCHITECT AND ENGINEER FOR ALTERNATE ROUTING IF CONFLICT OCCURS.
7. SEAL ALL TRANSVERSE AND LONGITUDINAL DUCT SEAMS AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30 DEGREES.
8. GREASE EXHAUST SYSTEM: ALL GREASE EXHAUST DUCTS SHALL BE FABRICATED BY WELDED JOINT CONSTRUCTION OF 16 GAUGE WELDED STEEL OR 18 GAUGE STAINLESS STEEL. PROVIDE RATED ACCESS DOORS AT ALL ELBOWS AND OFFSETS NECESSARY FOR COMPLETE CLEANING OF GREASE DUCT. PROVIDE MINIMUM 30"x30" UNOBSTRUCTED ACCESS OR ROUTE FROM THE CEILING TO EACH ACCESS DOOR. DO NOT BLOCK ACCESS WITH PLUMBING, ELECTRICAL OR HVAC OBSTRUCTIONS. ALL ELBOWS SHALL BE LONG RADIUS. GREASE DUCT SHALL BE INSTALLED EITHER IN A RATED ENCLOSURE PROVIDED BY THE GENERAL CONTRACTOR OR WRAPPED WITH FIREMASTER GREASE DUCT WRAP.
9. DUCT INSULATION: PROVIDE DUCT WRAP FOR ALL DUCTS ABOVE CEILING, INCLUDING VERTICAL, HORIZONTAL, RIGID AND FLEXIBLE DUCTS, EXCLUDING PREFABRICATED PREINSULATED DUCTS AND GREASE DUCTS. DUCT WRAP SHALL BE JOHNS MANVILLE MICROLITE OR EQUAL WITH FOIL/SCRIM/KRAFT, 1 IN THICKNESS, 1.5 POUNDS/FT3 DENSITY. DUCT WRAP SHALL BE BONDED GLASS FIBERS IN THERMOSETTING RESIN MEETING NFPA 90A, WITH K VALUE NOT TO EXCEED 0.23 AT 75 DEGREES F. FLAME SPREAD AND SMOKE DEVELOPED RATINGS SHALL NOT EXCEED 25/50. APPLY 100% ADHESIVE COVERAGE TO SHEET METAL DUCTWORK. PROVIDE ADDITIONAL MECHANICAL FASTENERS ON DUCTS OVER 12" WIDE OR 16" HIGH. MECHANICAL FASTENERS SHALL BE "GRIPNAIL" OR WELDED PIN AND SPEED CLIPS SPACED PER SMACNA STANDARDS.
10. FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50 AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. FLEX DUCT MAXIMUM ALLOWED LENGTH TO BE PER LOCAL CODE.
11. PROVIDE INSULATION APPLIED TO COMPLETE BACKPAN OF AIR DEVICES.
12. ACCESS DOOR: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE SHOWN AND AS REQUIRED FOR ACCESS TO DAMPERS OR EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.
13. AUTOMATIC TEMPERATURE CONTROL: CONTRACTOR TO PROVIDE AND INSTALL 24/7 PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS.
14. KITCHEN HOOD EQUIPMENT INTERLOCK: PROVIDE ALL INTERLOCK AND CONTROL WIRING FOR KITCHEN HOOD SYSTEMS, WHICH INCLUDES EF1, EF2, MAU1 AND ANSUL SYSTEM SHUT DOWN INTERLOCK TO MAKE-UP AIR FAN. UPON ACTIVATION OF ANSUL SYSTEM, MAKE-UP AIR FAN SHALL BE DEACTIVATED. PROVIDE ALL NECESSARY CONTROLS AND WIRING FOR A COMPLETE AND OPERABLE SYSTEM. INTERLOCK GREASE EXHAUST FANS AND MAKE-UP AIR UNIT TO START SIMULTANEOUSLY FROM SWITCH PROVIDED AT HOOD.
15. TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER AIR BALANCE AND OPERATION. PROVIDE A CERTIFIED AIR BALANCE REPORT TO OWNER SHOWING DESIGN AND MEASURED AIR VOLUMES, STATIC PRESSURES, FAN RPMS, ETC. AIR BALANCE CONTRACTOR SHALL ADJUST SYSTEMS TO MINIMIZE NOISE AND VIBRATION, AND TO ASSURE PROPER FUNCTION OF CONTROLS, MAINTENANCE OF TEMPERATURE AND OPERATION. GENERAL CONTRACTOR TO OBTAIN ALL INSPECTIONS REQUIRED BY LOCAL CODE AND GUARANTEE WORK AND INSTALLATION FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. GENERAL CONTRACTOR TO FURNISH OWNER WITH TWO COMPLETE SETS OF AS-BUILT DRAWINGS INDICATING ALL INSTALLED WORK, INCLUDING ALL CONTROL WIRING DIAGRAMS AND INTERLOCK FOR SYSTEM OPERATION.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ECONOMIZERS INCLUDING INSTALLATION OF ALL NECESSARY SENSORS AND CONNECTIONS TO THERMOSTAT. PROVIDE SUPPORT OF ECONOMIZERS PER MANUFACTURER'S REQUIREMENTS AND TEST FOR PROPER OPERATION PRIOR TO FINAL TEST AND BALANCE.

# MAKE-UP AIR UNIT SCHEDULE

| MARK | MFR/ MODEL | LOCATION | SERVICE AREA | GAS HEAT | TYPE | COOLING | CFM | ESP | MOTOR | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| MA-1 | CAPTIVEAIRE EA3-D.500-24D-MPU | ROOF-TOP | KITCHEN HOOD #1 & #2 | INPUT: 539,830 BTHU OUTPUT: 496,644 2 | DIRECT FIRE GAS HEATED, DX COOLED SUPPLY, DOWN DISCHARGE | DUAL CIRCUIT 5/5 MODULAR PACKAGED COOLING OPTION | 5,040 | 0.90" 2 | 7.5 HP 208V/3PH/60HZ | GAS FIRED MAKEUP AIR UNIT WITH (2) 24ABB360 5 TON, DUAL CIRCUIT AIR COOLED CONDENSING UNITS. REFER TO SHEET M-402 FOR INFORMATION. 4-5 WEEK LEAD TIME. SHIPPING INCLUDED IN PRICE. SHIPS FROM TYLER, TX. SHIPS SEPARATE, FREIGHT INCLUDED NOTE: FACTORY OPTIONS SHALL INCLUDE NONCORROSIVE COATING AND HAIL GUARD PROTECTION. |

# DIFFUSER & GRILLE SCHEDULE

| DESIGNATION | MANUFACTURER | MODEL NO | TYPE | COLOR | NOM NECK SIZE | NOM FACE SIZE | FRAME TYPE | NC MAX | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| A | TITUS | PCS-3 | PERFORATED ADJUSTABLE CORE | 26 WHITE | PER PLAN | 24" x 24" | LAY-IN T-BAR | < 30 | INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER |
| B | TITUS | PCS-3 | PERFORATED ADJUSTABLE CORE | 26 WHITE | PER PLAN | 20" x 20" | SURFACE | < 30 | WITH 20X20 SURFACE FRAME, REQUIRES A 20.5"X20.5" CEILING OPENING, INSULATION BLANKET, D-100 RADIAL DAMPER |
| C | TITUS | PCS-3 | PERFORATED ADJUSTABLE CORE | 26 WHITE | PER PLAN | 12" x 12" | SURFACE | < 30 | WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, INSULATION BLANKET, D100 RADIAL DAMPER |
| D | TITUS | PAR-3 | PERFORATED RETURN | 26 WHITE | 22" x 22" | 24" x 24" | LAY-IN T-BAR | < 35 | CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT |
| E | TITUS | PAR-3 | PERFORATED EXHAUST | 26 WHITE | PER PLAN | 12" x 12" | SURFACE | | WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, D100 RADIAL DAMPER |
| F | TITUS | PAR-3 | PERFORATED RETURN | PANDA BRONZE | 22" x 22" | 24" x 24" | LAY-IN T-BAR | < 35 | CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT |
| H | TITUS | PCS-3 | PERFORATED ADJUSTABLE CORE | PANDA BRONZE | PER PLAN | 24" x 24" | LAY-IN T-BAR | < 30 | WITH INSULATION BLANKET, BALANCE USING MANUAL VOLUME DAMPER AT BRANCH DUCT |
| J | TITUS | PCS-3 | PERFORATED ADJUSTABLE CORE | 26 WHITE | PER PLAN | 24" x 24" | LAY-IN T-BAR | < 30 | AG95 OBD, INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER |
| K | TITUS | PCS-3 | PERFORATED ADJUSTABLE CORE | 26 WHITE | PER PLAN | 12" x 12" | SURFACE | < 30 | WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, INSULATION BLANKET, D100 RADIAL DAMPER |
| L | TITUS | PCS-3 | PERFORATED ADJUSTABLE CORE | 26 WHITE | PER PLAN | 12" x 12" | SURFACE | < 30 | WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING |

NOTE: PROVIDE FACTORY INSTALLED BACK PAN INSULATION ON AIR DEVICES.
HVAC CONTRACTOR IS TO PURCHASE ALL AIR DEVICES FROM PANDA APPROVED NATIONAL ACCOUNT VENDOR THERMAIR SYSTEMS INC.
PLEASE CONTACT RON CAMPTON AT 602-705-5010 OR EMAIL ronc@thermairsystems.com

# AIR BALANCE SCHEDULE

| ITEM | SUPPLY AIR | RETURN AIR | MAKE-UP AIR | EXHAUST |
|---|---|---|---|---|
| MAU1 | 0 | 0 | +5,040 | 0 |
| EF-1, EF-2 | 0 | 0 | 0 2 | -3,400, -2,900 |
| RTU-1 | +2,400 | -1,900 | 500 | 0 2 |
| RTU-2, RTU-3 | +4,000, +4000 | -3,250, -3,250 | 2@750 EA | 0 |
| EF-3 | - | - | - | -450 |
| TOTAL | +10,400 | -8,400 | +7,040 | -6,750 |

BUILDING PRESSURE = +290 CFM 2

BALANCE TOLERANCES AS FOLLOWS:
- KITCHEN EXHAUST HOODS: 0% TO +10%
- OUTDOOR AIR: 0% TO +10%
- SUPPLY & RETURN DIFFUSERS: ±10%
- TOILET EXHAUST: ±10%

BALANCE RTU SUPPLY AND RETURN PRIOR TO TURNING ON EXHAUST FANS.
KITCHEN EXHAUST FANS SHALL BE BALANCED WITH VELOCITY MATRIX OR A 4" ANEMOMETER

# OSA VENTILATION CALCULATION-IMC

| AREA TYPE | TOTAL AREA (FT2) | OCCUPANCY DENSITY 2 (PEOPLE/FT2) | TOTAL OCCUPANTS | OSA REQ.'D PER SQ.FT. (CFM) | OSA REQ.'D PER PERSON (CFM) | OSA REQ.'D FOR THIS OCCUPANCY CLASSIFICATION (CFM) |
|---|---|---|---|---|---|---|
| HALLWAYS | 41 | - | - | 0.06 | - | +3 |
| STORAGE | 14 | - | - | 0.15 | - | +2 |
| KITCHEN (EXHAUST) | 925 | - | - | 0.7 | - | -65 |
| DINING ROOM | 823 | 100/1,000 | 83 | 0.18 | 7.5 | +771 |

CALCULATION PER IMC TABLE 403.3.1.1
VENTILATION SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING THE AIRFLOW RATES REQUIRED BY SECTION 403. SAID REPORT MUST BE PRESENTED TO THE ADMINISTRATIVE AUTHORITY.

| | |
|---|---|
| TOTAL OSA REQUIRED (CFM) | 841 |
| TOTAL OSA PROVIDED (CFM) | 2000 |

# MECHANICAL LEGEND

| SYMBOL | ABBREVIATION | DESCRIPTION |
|---|---|---|
| | ABV | ABOVE |
| | AFF | ABOVE FINISHED FLOOR |
| | CLG | CEILING |
| | DN | DOWN |
| | | DUCT SECTIONS (SUPPLY, EXHAUST, RETURN) |
| | | FLEXIBLE DUCT |
| | MVD | MANUAL VOLUME DAMPER |
| | OBD | OPPOSED BLADE DAMPER |
| | MFR | MANUFACTURER |
| | MIN | MINIMUM |
| | OSA | OUTSIDE AIR |
| | | ROUND RIGID DUCTWORK |
| | TSP | TOTAL STATIC PRESSURE |
| | | TURNING VANES |
| 1 | | CONSTRUCTION NOTES |
| EF 1 | | MECHANICAL EQUIPMENT DESIGNATION |
| S | | SMOKE DETECTOR |
| T 1 | | THERMOSTAT / UNIT |
| R 1 | | REMOTE SENSOR / UNIT |


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REVISIONS:

| | |
|---|---|
| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

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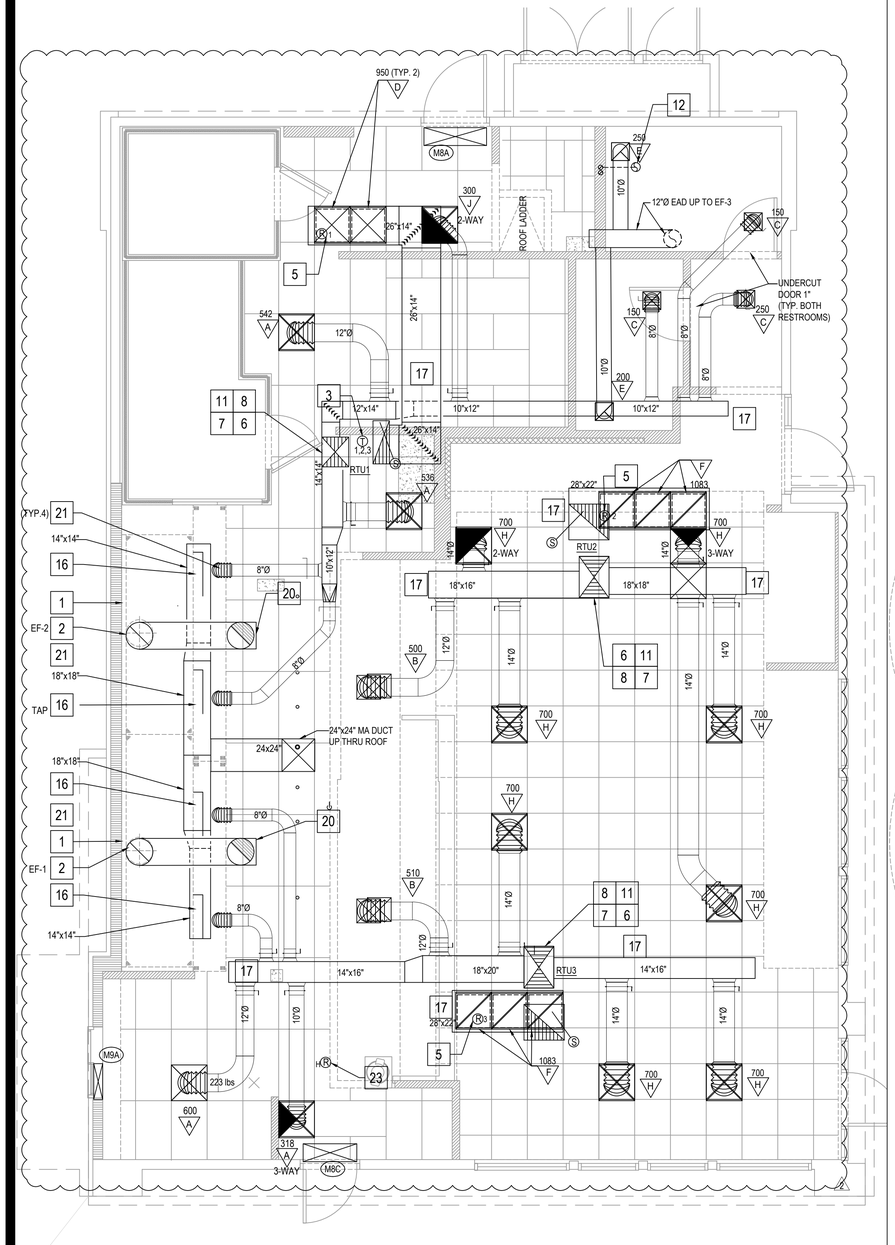
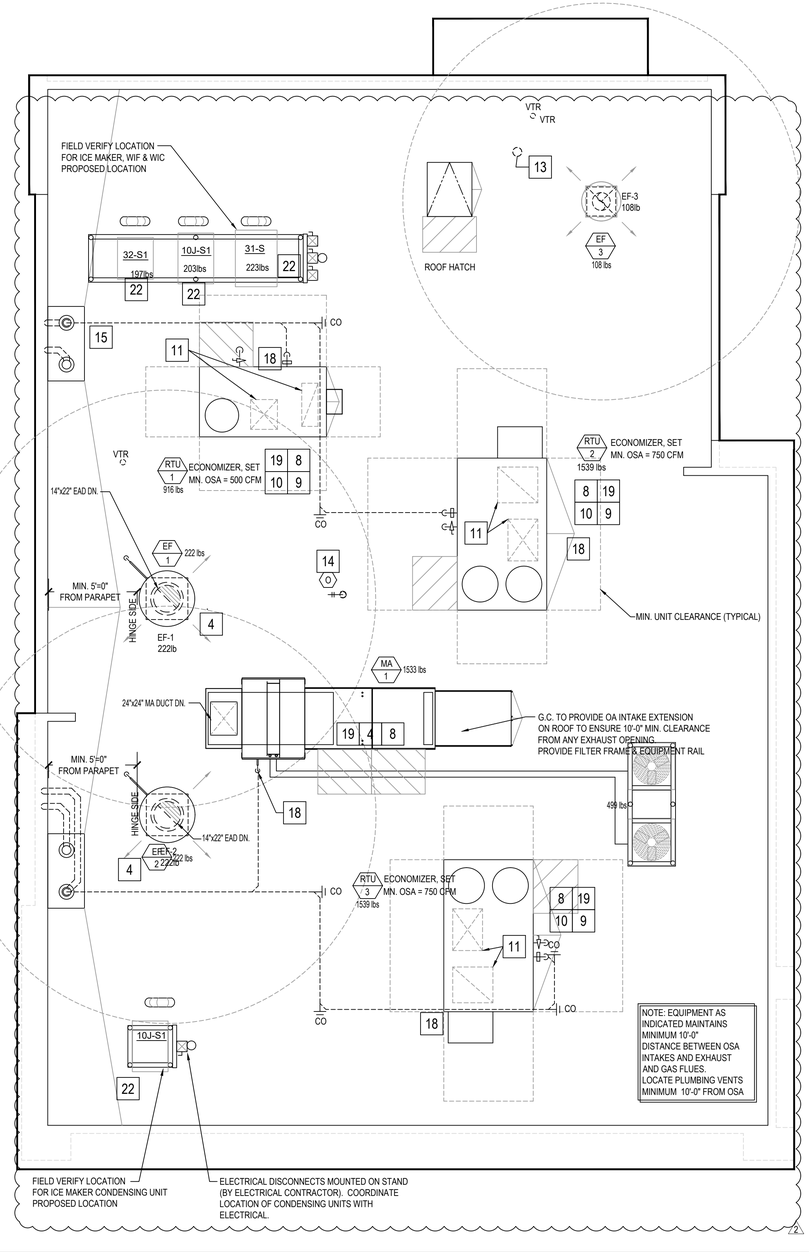
# M-000

MECHANICAL NOTES
SPECIFICATIONS & SCHEDULES

TRUE WARM & WELCOME 2300 R6




## MECHANICAL KEY NOTES:

1. INSTALL GREASE EXHAUST HOODS FURNISHED BY PANDA. HOOD SHALL BE ONE CAPTIVEAIRE 4824-ND HOOD EXHAUSTING 3,450 CFM. SUPPORT FROM STRUCTURE ABOVE WITH UNISTRUT AND ALL THREAD ROD. MOUNT HOOD PER LOCAL CODE REQUIREMENTS. REFER TO PLAN FOR HOOD CONNECTIONS. SEE CODE COMPLIANCE DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS. (TWO SECTIONS TOTAL).
2. PROVIDE AND INSTALL MANUFACTURED CAPTIVEAIRE 18" GREASE EXHAUST DUCT, ROUTE ON TOP OF MAKE UP AIR DUCT, FROM INLET OF ROOF MOUNTED GREASE EXHAUST FAN. CONNECT TO EXHAUST HOOD COLLAR. FIELD VERIFY. SEAL DUCT TO THE ROOF CURB WITH FIRE CAULKING . SEE HOOD DETAIL DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE DRAWINGS ON SHEETS M-400 TO M-410.
3. MOUNT THERMOSTAT AT MANAGER STATION. REFER TO DETAIL #1 ON SHEET E-200. SEE DWG FOR EXACT LOCATION OF REMOTE SENSOR. SEE ROOFTOP UNIT SCHEDULE AND TEMPERATURE CONTROL DIAGRAM DETAIL 5 ON SHEET M-501 FOR ADDITIONAL INFORMATION.
4. INSTALL GREASE EXHAUST FAN WITH CURB (EF-1 AND EF-2) AND MAKE UP AIR (MA-1) FURNISHED BY PANDA. COORDINATE LOCATION OF UNIT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. PROVIDE AND INSTALL A REMOTE SENSOR FOR ROOFTOP UNIT AT THIS LOCATION. MOUNT REMOTE SENSOR IN RETURN AIR DUCTWORK. SEE TEMPERATURE CONTROL DIAGRAM ON SHEET M-501 FOR ADDITIONAL INFORMATION.
6. PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR AT MAIN SUPPLY AIR DUCT PER UMC, SEC. 609. OR AT RETURN AIR DUCT PER IMC, SECTION 606.2.1. DETECTORS SHALL BE INTERLOCKED TO SHUT DOWN ROOFTOP UNITS UPON DETECTION OF SMOKE. PROVIDE ALL CONTROL WIRING NECESSARY TO PERFORM THIS OPERATION.
7. PROVIDE FLEXIBLE CONNECTION BETWEEN UNIT, ROUTE DUCT THRU ROOF CURB AND TRUSS.
8. FOR GAS OR WATER CONNECTION, SEE PLUMBING DRAWINGS.
9. PROVIDE FABRICATED CURB PER MANUFACTURERS REQUIREMENTS AND COORDINATE EXACT LOCATION OF UNIT IN FIELD. SHIM ROOF CURB LEVEL FOR PROPER CONDENSATE DRAINAGE.
10. FURNISH AND INSTALL ALL TEMPERATURE CONTROL WIRING FROM THE UNIT TO THE THERMOSTAT OR OTHER CONTROL DEVICES.
11. FULL SIZE SA AND RA UP TO RTU. TRANSITION AS REQUIRED TO RTU INLET/OUTLET SIZE.
12. PVC COMBUSTION AIR AND EXHAUST PIPING PROVIDED AND INSTALLED BY PLUMBING FOR SEALED COMBUSTION WATER HEATER. REFER TO PLUMBING PLANS.
13. WATER HEATER INTAKE AND EXHAUST VENT TERMINATION. REFER TO PLUMBING PLANS. OFFSET AS REQUIRED FOR CLEARANCE FROM AIR INTAKES.
14. ROOF HYDRANT. REFER TO PLUMBING DRAWINGS.
15. ROUTE CONDENSATE DRAIN IN CEILING SPACE OVER AND DOWN IN WALL. SLOPE 1/4" PER FOOT. STUB-OUT AND ELBOW DOWN OVER MOP SINK . TERMINATE WITH MINIMUM 2" AIR GAP.
16. MA DUCT (BELOW MAKE UP AIR) CONNECT TO 28"x10" RISER FROM SUPPLY PLENUM. 1,380 CFM
17. PROVIDE DUCT EXTERNAL INSULATION WRAP AT TRUNK, TYPICAL.
18. CONDENSATE DRAIN LINE DOWN THRU ROOF. REFER TO DETAIL 16/P-500.
19. PROVIDE AND INSTALL ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE. MAINTAIN MINIMUM CLEARANCES TO ELECTRICAL AND SERVICE ACCESS PANELS AND DISCONNECTS.
20. GREASE DUCT CLEANOUT LOCATION. PROVIDE ACCESS TO CLEANOUT ABOVE CEILING. REFER TO MECHANICAL SPECIFICATIONS SHEET M-000
21. 8" CONNECTION TO HOOD RTU SUPPLY PLENUM COLLAR. BALANCE TO 259 CFM.
22. PROVIDE AND INSTALL ACR TUBING, SIZED AND ROUTED PER MANUFACTURER'S INSTRUCTIONS, FROM REMOTE REFRIGERANT CONDENSERS TO WALK-IN COOLER AND FREEZER FAN COILS, AND ICE MAKER. TEST, PURGE, EVACUATE AND CHARGE LINES AS REQUIRED BY MANUFACTURER. (START-UP FOR ICE MAKER IS BY OWNER'S REPRESENTATIVE). ROUTE REFRIGERANT LINES THROUGH "ATR HUB" PROVIDED AND INSTALLED BY GC (REFER TO ARCH. ISO 3 AND 4, SHEET A-108). UNITS SECURED TO RACK BY G.C.
23. ROOM AIR SENSOR FROM CAPTIVEAIRE HOOD ON BACK OF MENU BOARD WALL, AS CLOSE TO CEILING AS POSSIBLE.
24. PREFABRICATED GREASE EXHAUST DUCT AVAILABLE AS OPTIONAL ALTERNATIVE TO FIELD FABRICATED GREASE DUCT. SEE HOOD PLANS.

NOTE: MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED SHALL BE PER LOCAL CODE AND AMENDMENTS. IMC HAS NO LIMITATIONS FOR FLEXIBLE DUCT LENGTHS.

HVAC FLOOR PLAN 2
Scale:1/4"=1'-0" M-100

HVAC ROOF PLAN 1
Scale:1/4"=1'-0" M-100

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MICHIGAN #6201068943
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## PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

## *HOOD INFORMATION – JOB#5311718*

| HOOD NO | TAG | MODEL | MANUFACTURER | LENGTH | MAX COOKING TEMP | TYPE | APPLIANCE DUTY | DESIGN CFM/FT | TOTAL EXH CFM | EXHAUST PLENUM RISER(S) WIDTH | LENG | HEIGHT | DIA | CFM | VEL | SP | TOTAL SUPPLY CFM | HOOD CONSTRUCTION | HOOD CONFIG END TO END | HOOD CONFIG ROW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4824 ND-2 | CAPTIVEAIRE | 13' 0" | 600 DEG | I | HEAVY | 262 | 3400 | | | 4" | 18" | 3400 | 1924 | -1.202" | 0 | 430 SS WHERE EXPOSED | LEFT | ALONE |
| 2 | | 4824 ND-2 | CAPTIVEAIRE | 11' 2" | 600 DEG | I | HEAVY | 260 | 2900 | | | 4" | 18" | 2900 | 1641 | -0.897" | 0 | 430 SS WHERE EXPOSED | RIGHT | ALONE |
| 3 | | 226 MISC ACPSP-ONLY | CAPTIVEAIRE | 11' 9" | 300 DEG | I | N/A | 0 | 0 | | | | | | | | 2520 | 430 SS WHERE EXPOSED | ALONE | ALONE |
| 4 | | 226 MISC ACPSP-ONLY | CAPTIVEAIRE | 14' 4" | 300 DEG | I | N/A | 0 | 0 | | | | | | | | 2520 | 430 SS WHERE EXPOSED | ALONE | ALONE |

## *HOOD INFORMATION*

| HOOD NO | TAG | FILTER(S) TYPE | QTY | HEIGHT | LENGTH | EFFICIENCY @ 7 MICRONS | LIGHT(S) QTY | TYPE | WIRE GUARD | UTILITY CABINET(S) LOCATION | SIZE | FIRE SYSTEM TYPE | FIRE SYSTEM SIZE | ELECTRICAL MODEL # | SWITCHES QUANTITY | FIRE SYSTEM PIPING | HOOD HANGING WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | CAPTRATE SOLO FILTER | 9 | 20" | 16" | 85% SEE FILTER SPEC | 7 | L55 SERIES E26 | NO | WALL MNT | 12"x54"x24" | ANSUL R-102 | 3.0/3.0/3.0 | DCV-2111 | 1 LIGHT 1 FAN | YES | 537 LBS |
| 2 | | CAPTRATE SOLO FILTER | 8 | 20" | 16" | 85% SEE FILTER SPEC | 6 | L55 SERIES E26 | NO | RIGHT | 20"x48"x24" | | | | | YES | 548 LBS |
| 3 | | | | | | | 0 | | | | | | | | | NO | 162 LBS |
| 4 | | | | | | | 0 | | | | | | | | | NO | 185 LBS |

## *HOOD OPTIONS*

| HOOD NO | TAG | OPTION |
|---|---|---|
| 1 | | LEFT END STANDOFF (FINISHED) 3" WIDE 48" LONG. |
| | | RISER SENSOR INSTALL 6IN PLEN. |
| 2 | | RISER SENSOR INSTALL 6IN PLEN. |

## *PERFORATED SUPPLY PLENUM(S)*

| HOOD NO | TAG | PDS | LENGTH | WIDTH | HEIGHT | RISER(S) TYPE | WIDTH | LENG | DIA | CFM | SP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | | Front | 141" | 10" | 6" | AC | | | 8" | 236 | 0.135" |
| | | | | | | AC | | | 8" | 236 | 0.135" |
| | | Back | 141" | 12" | 6" | MUA | 10" | 28" | | 1260 | 0.530" |
| | | | | | | MUA | 10" | 28" | | 1260 | 0.530" |
| 4 | | Front | 172" | 10" | 6" | AC | | | 8" | 236 | 0.122" |
| | | | | | | AC | | | 8" | 236 | 0.122" |
| | | Back | 172" | 12" | 6" | MUA | 10" | 28" | | 1254 | 0.497" |
| | | | | | | MUA | 10" | 28" | | 1254 | 0.497" |

## *WALL-MOUNT UTILITY CABINET*

| HOOD NO | LOCATION | SIZE | UTILITY CABINET(S) FIRE SYSTEM TYPE | FIRE SYSTEM SIZE | ELECTRICAL MODEL # | SWITCHES QUANTITY | WEIGHT |
|---|---|---|---|---|---|---|---|
| 1 | WALL MNT | 12"x54"x24" | ANSUL R-102 | 3.0/3.0/3.0 | DCV-2111 | 1 LIGHT 1 FAN | 305.00 LBS |

## *FIRE SYSTEM INFORMATION – JOB#5311718*

| FIRE SYSTEM NO | TAG | TYPE | SIZE | FLOW POINTS | INSTALLATION SYSTEM | INSTALLATION LOCATION ON HOOD |
|---|---|---|---|---|---|---|
| 1 | | ANSUL R102 | 3.0/3.0/3.0 | 29 | WALL UTILITY CABINET LEFT | N/A |

## *GAS VALVE(S)*

| FIRE SYSTEM NO | TAG | TYPE | SIZE | SUPPLIED BY |
|---|---|---|---|---|
| 1 | | MECHANICAL | 2.000 | CAPTIVEAIRE SYSTEMS |

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL
PLEASE USE CONTACT BELOW FOR PRICING

### ANSUL GAS VALVE:

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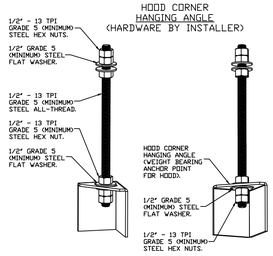
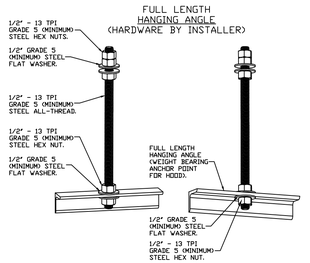
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)




### ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)




### ASSEMBLY INSTRUCTIONS

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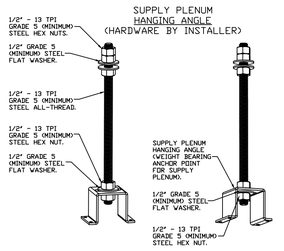
SUPPLY PLENUM HANGING ANGLE (HARDWARE BY INSTALLER)




### ASSEMBLY INSTRUCTIONS

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**DATE:** 2/4/2022
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**DRAWN BY:** AH-86
**SCALE:** 3/4" = 1'-0"
**MASTER DRAWING**
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GEORGIA REGISTERED No. PE009481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-400

HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

## WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

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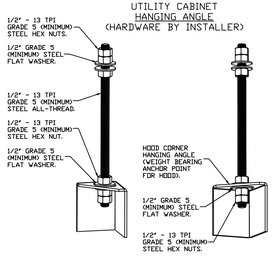
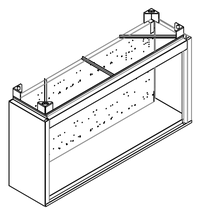
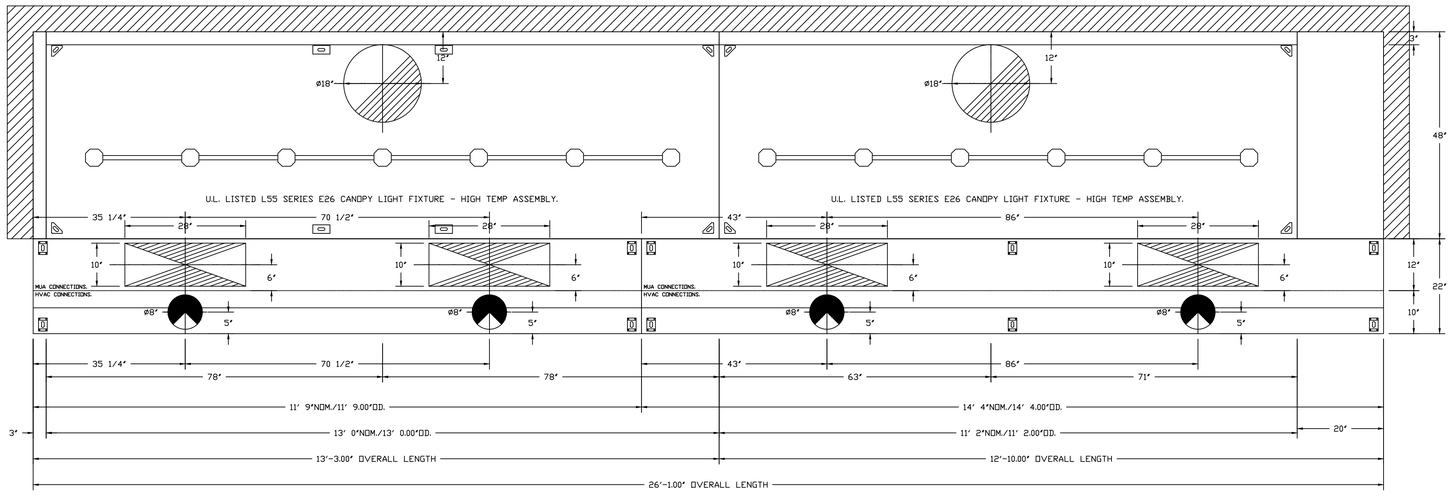
UTILITY CABINET
HANGING ANGLE
(HARDWARE BY INSTALLER)






PLAN VIEW - HOOD #1
13' 0.00" LONG 4824ND-2

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

PLAN VIEW - HOOD #3
11' 9.00" LONG 226MISC ACPSP-ONLY

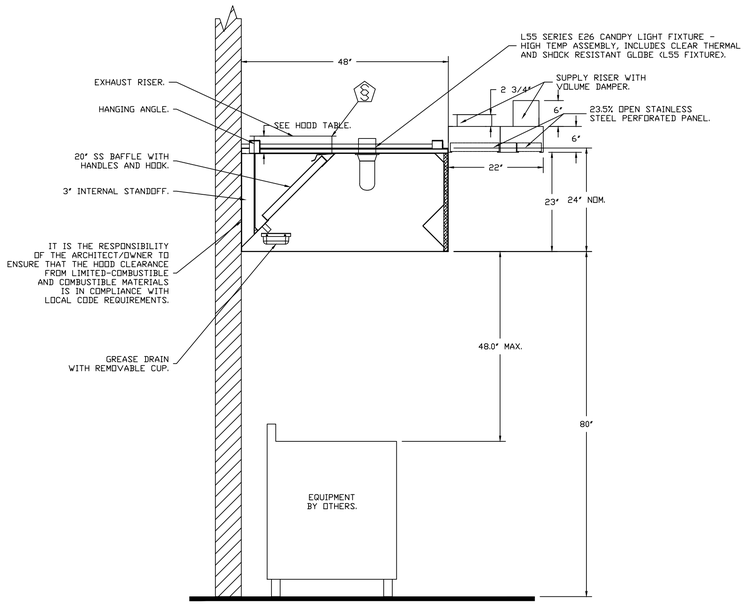
PLAN VIEW - HOOD #2
11' 2.00" LONG 4824ND-2

PLAN VIEW - HOOD #4
14' 4.00" LONG 226MISC ACPSP-ONLY

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED

ETL LISTED
FILE# 102900319PRT-001




*SECTION VIEW - MODEL 4824ND-2-ACPSP-F*
*HOOD - #1*

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**DWG.#:** 5311718

**DRAWN BY:** AH-86

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 2

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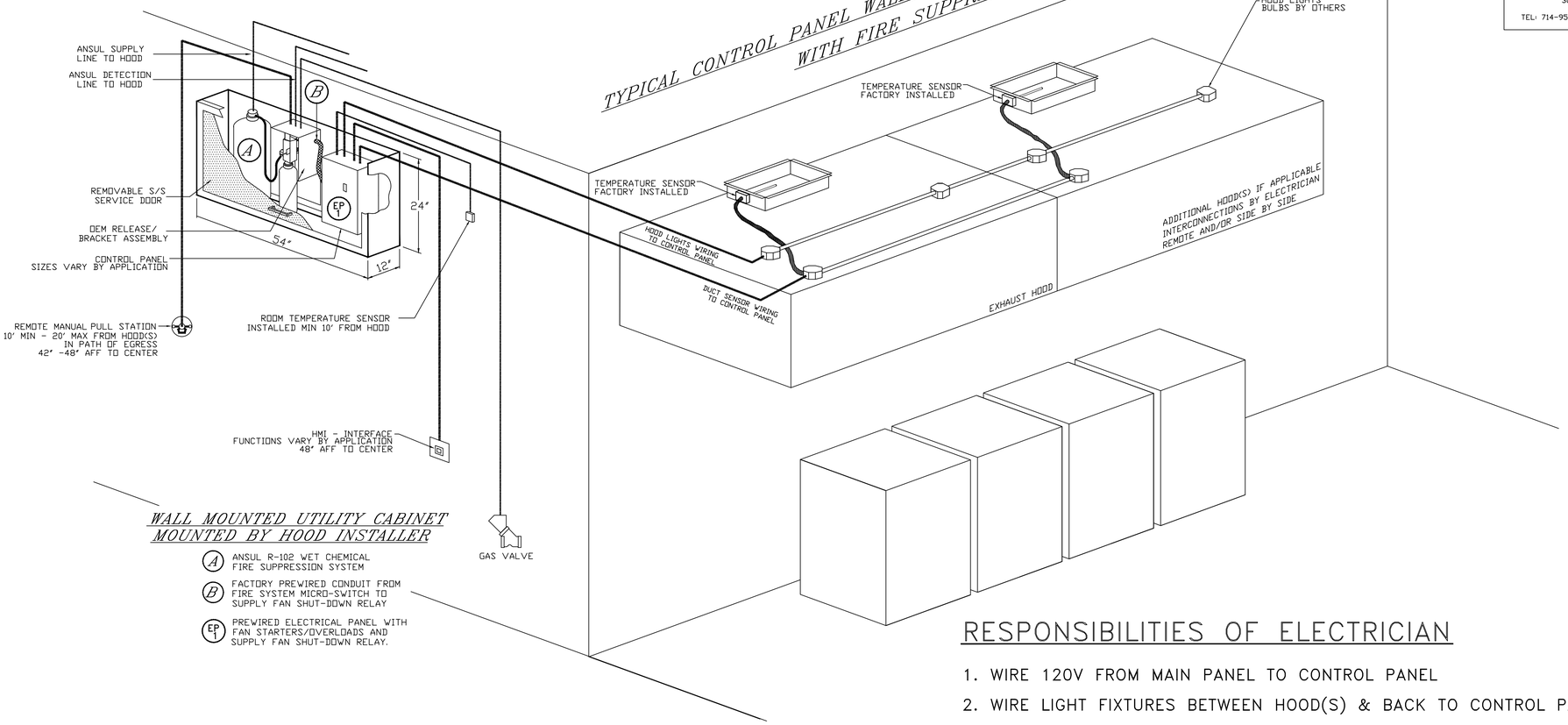
HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

# TYPICAL CONTROL PANEL WALL UTILITY CABINET MOUNT INSTALLATION WITH FIRE SUPPRESSION SYSTEM




*WALL MOUNTED UTILITY CABINET MOUNTED BY HOOD INSTALLER*

- (A) ANSUL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEM
- (B) FACTORY PREWIRED CONDUIT FROM FIRE SYSTEM MICRO-SWITCH TO SUPPLY FAN SHUT-DOWN RELAY
- (EP 1) PREWIRED ELECTRICAL PANEL WITH FAN STARTERS/OVERLOADS AND SUPPLY FAN SHUT-DOWN RELAY.

*TERMINAL BLOCK WIRING DETAILS CAN BE FOUND ON ELECTRICAL WIRING DIAGRAMS*

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DOUBLE WALL DUCT BY MECHANICAL
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## RESPONSIBILITIES OF ELECTRICIAN

1. WIRE 120V FROM MAIN PANEL TO CONTROL PANEL
2. WIRE LIGHT FIXTURES BETWEEN HOOD(S) & BACK TO CONTROL PANEL
3. WIRE TEMPERATURE SENSOR(S) FROM EXHAUST COLLARS TO CONTROL PANEL
4. MOUNT & WIRE ROOM SENSOR TO CONTROL PANEL
5. WIRE FAN POWER FROM MAIN PANEL THROUGH CONTROL PANEL TO FAN(S)
6. WIRE SHUNT COIL TO CONTROL PANEL
7. WIRE GAS VALVE (IF APPLICABLE) TO CONTROL PANEL (120V FROM CONTROL PANEL)

## ADDITIONAL RESPONSIBILITIES IF APPLICABLE

1. IF MULTIPLE FIRE SYSTEMS ON SINGLE CONTROL PANEL, THE FOLLOWING MUST OCCUR
   - A. ANSUL AUTOMAN MICROSWITCHES TO BE WIRED IN SERIES BACK TO CONTROL PANEL
   - B. ANSUL CATRIDGE MICROSWITCHES TO BE WIRED IN SERIES BACK TO CONTROL PANEL

## RESPONSIBILITIES OF ALARM CONTRACTOR

1. WIRE ANSUL ALARM MICROSWITCH TO BUILDING ALARM PANEL

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**MASTER DRAWING**

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| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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Florida Corporate Certificate # AA C000526


02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-402

HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

## EXHAUST FAN INFORMATION – JOB#5311718

| FAN UNIT NO | TAG | QTY | FAN UNIT MODEL # | MANUFACTURER | CFM | ESP | RPM | MOTOR ENCL | HP | BHP | PHASE | VOLT | FLA | DISCHARGE VELOCITY | WEIGHT (LBS) | SONES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 | DU180HFA | CAPTIVEAIRE | 3400 | 1.588 | 1399 | ODP,PREMIUM | 3.000 | 1.9700 | 3 | 208 | 9.5 | 785 FPM | 189 | 21 |
| 2 | | 1 | DU180HFA | CAPTIVEAIRE | 2900 | 1.178 | 1199 | ODP,PREMIUM | 2.000 | 1.2400 | 3 | 208 | 8.3 | 670 FPM | 188 | 17.1 |
| 3 | | 1 | DR12HFA | CAPTIVEAIRE | 450 | 0.250 | 1220 | TEAO-ECM | 0.250 | 0.0810 | 1 | 115 | 2.9 | | 49 | 6.4 |

## CONDENSER DETAILS

| FAN UNIT NO | TAG | FAN UNIT MODEL # | CONDENSER NO | TONNAGE | VOLTAGE | PHASE | FREQUENCY | MCA | RLA | MAX FUSE SIZE | MIN WIRE SIZE | SEER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | | A3-D.500-24D-MPU | 1 | 5 | 208-230 | 3 PHASE | 60 HZ | 21.4 AMPS | 17.4 AMPS | 30 AMPS | 10 AWG | 14 |
| | | | 2 | 5 | 208-230 | 3 PHASE | 60 HZ | 21.4 AMPS | 17.4 AMPS | 30 AMPS | 10 AWG | 14 |

## MUA FAN INFORMATION – JOB#5311718

| FAN UNIT NO | TAG | QTY | FAN UNIT MODEL # | BLOWER | HOUSING | MIN CFM | DESIGN CFM | ESP | RPM | MOTOR ENCL | HP | BHP | PHASE | VOLT | FLA | MCA | MOCP | WEIGHT (LBS) | SONES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | | 1 | A3-D.500-24D-MPU | 24MF-3-MOD | A3-D.500 | 3600 | 5040 | 0.900 | 1450 | ODP,PREMIUM | 7.500 | 5.1920 | 3 | 208 | 21.1 | 27.6A | 45A | 1925 | 14.7 |

## COILS – JOB#5311718

| FAN UNIT NO | TAG | COIL TYPE | DESIGN CFM | COOLING | | | | | | | | | | HEATING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ENTERING DB TEMP | ENTERING WB TEMP | LEAVING DB TEMP | LEAVING WB TEMP | ENTERING FLUID TEMP | LEAVING FLUID TEMP | FLUID FLOW RATE | PERCENT GLYCOL | TOTAL CAPACITY | SENSIBLE CAPACITY | LATENT CAPACITY | ENTERING DB TEMP | LEAVING DB TEMP | ENTERING FLUID TEMP | LEAVING FLUID TEMP | FLUID FLOW RATE | PERCENT GLYCOL | STEAM PRESSURE | TOTAL CAPACITY | SENSIBLE CAPACITY |
| 4 | | DX | 5040 | 95.0°F | 78.0°F | 82.2°F | 72.0°F | --- | --- | --- | --- | 120.0 MBH | 68.1 MBH | 51.9 MBH | --- | --- | --- | --- | --- | --- | --- | --- | --- |

## GAS FIRED MAKE-UP AIR UNIT(S)

| FAN UNIT NO | TAG | INPUT BTUs | OUTPUT BTUs | TEMP RISE | REQUIRED INPUT GAS PRESSURE | GAS TYPE | BURNER EFFICIENCY(%) |
|---|---|---|---|---|---|---|---|
| 4 | | 539830 | 496644 | 100°F | 7 IN. W.C. - 14 IN. W.C. | NATURAL | 92 |

## FAN OPTIONS

| FAN UNIT NO | TAG | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | | 1 | GREASE BOX |
| | | 1 | UPBLAST FAN WHEEL ACCESS PORT |
| | | 1 | FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS |
| | | 1 | 2 YEAR PARTS WARRANTY |
| 2 | | 1 | GREASE BOX |
| | | 1 | UPBLAST FAN WHEEL ACCESS PORT |
| | | 1 | FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS |
| | | 1 | 2 YEAR PARTS WARRANTY |
| 3 | | 1 | ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION |
| | | 1 | I 12-BDD DAMPER |
| | | 1 | 2 YEAR PARTS WARRANTY |
| 4 | | 1 | INLET PRESSURE GAUGE, 0-35" |
| | | 1 | MANIFOLD PRESSURE GAUGE, -5 TO 15" WC |
| | | 1 | MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING - MEETS AMCA CLASS 1A RATING |
| | | 1 | 10 TON 2 CIRCUIT (5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 DF/EH MUA (3,600 TO 6,000 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION |
| | | 1 | DOWNTURN PLENUM FOR SIZE 3 DX COIL MODULE |
| | | 1 | SHIP CONDENSERS LOOSE - TWO CONDENSERS, THREE PHASE - CONDENSER DISCONNECTS SHIPPED LOOSE |
| | | 1 | FREEZESTAT |
| | | 1 | UNIT MOUNTED VFD FOR USE WITH ECPM03 |
| | | 1 | 2 YEAR PARTS WARRANTY |

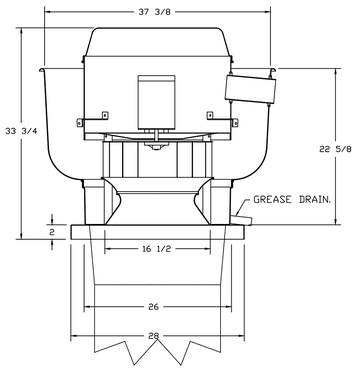
## FAN ACCESSORIES

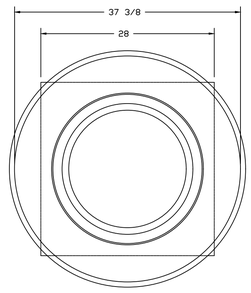
| FAN UNIT NO | TAG | EXHAUST | | | SUPPLY | | | |
|---|---|---|---|---|---|---|---|---|
| | | GREASE CUP | GRAVITY DAMPER | WALL MOUNT | SIDE DISCHARGE | GRAVITY DAMPER | MOTORIZED DAMPER | WALL MOUNT |
| 1 | | YES | | | | | | |
| 2 | | YES | | | | | | |
| 3 | | | YES | | | | | |
| 4 | | | | | | | YES | |

## CURB ASSEMBLIES

| NO | ON FAN | WEIGHT | ITEM | SIZE |
|---|---|---|---|---|
| 1 | # 1 | 34 LBS | CURB | 26.500"W X 26.500"L X 30.000"H ALONG LENGTH, RIGHT VENTED HINGED. |
| 2 | # 2 | 34 LBS | CURB | 26.500"W X 26.500"L X 30.000"H ALONG LENGTH, RIGHT VENTED HINGED. |
| 3 | # 3 | 16 LBS | CURB | 17.500"W X 17.500"L X 12.000"H ALONG LENGTH, RIGHT. |
| 4 | # 4 | 114 LBS | CURB | 35.000"W X 84.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED. |
| | # 4 | | RAIL | 6.000"W X 35.000"L X 20.000"H RIGHT. |

FANS #1, #2 - DU180HFA EXHAUST FAN




TOP VIEW

### FEATURES:

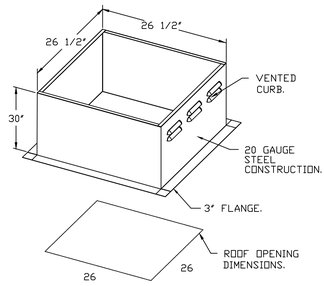
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
UPBLAST FAN WHEEL ACCESS PORT.
FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
2 YEAR PARTS WARRANTY.



NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL
PLEASE USE CONTACT BELOW FOR PRICING

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Panda Express - Covington GA (D8518) - rev1
COVINGTON, GA, 30014

**DATE:** 2/4/2022

**DWG.#:** 5311718

**DRAWN BY:** AH-86

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 4



PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
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PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS

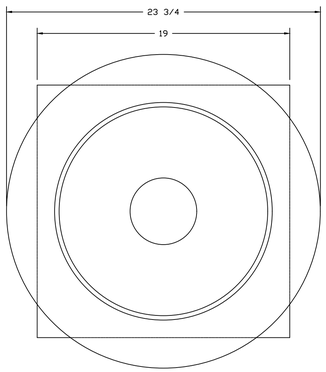
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-403

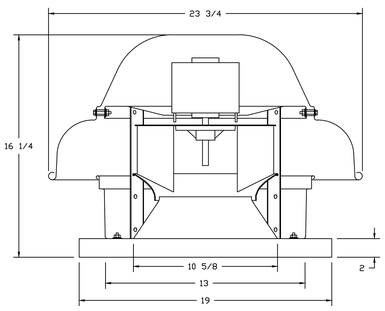
HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

FAN #3 DR12HFA - EXHAUST FAN




TOP VIEW

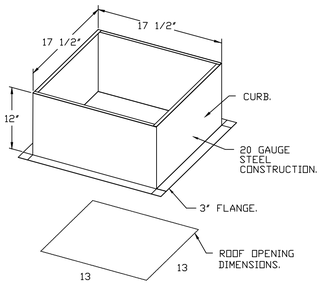


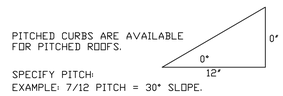

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

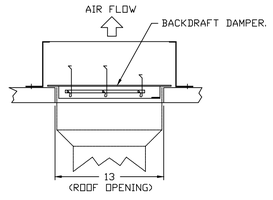
OPTIONS

ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.
1 12-BDD DAMPER.
2 YEAR PARTS WARRANTY.




BACKDRAFT DAMPER INSTALLATION

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**MASTER DRAWING**

**SHEET NO.** 5

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ST #040481

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-404

HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

FAN #4 A3-D.500-24D-MPU - HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 24" MIXED FLOW DIRECT DRIVE FAN AND 12" BURNER.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
5. GAS PRESSURE GAUGE; -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
6. MOTORIZED BACK DRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, NFBUP-S ACTUATOR INCLUDED.
7. 10 TON, DUAL CIRCUIT (5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 DF/EH MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (3,600 TO 6,000 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 3EZ0602M.
8. DOWNTURN PLENUM FOR SIZE 3 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS.
9. SHIP CONDENSERS LOOSE. THE REFRIGERATION LINES WILL NEED TO BE STUBBED OUT 12 INCHES. THE SUCTION LINES NEEDS TO BE INSULATED INSIDE THE COIL MODULE. ROTARY DISCONNECT SHOULD NOT BE INSTALLED ON THE POST, BLANK POST SHOULD BE USED IN PLACE.
10. FREEZESTAT FACTORY SET AT 35°F AND 10 MINUTES.
11. UNIT MOUNTED VFD FOR USE WITH ECPM03.
12. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
13. 2 YEAR PARTS WARRANTY

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 24" x 24".

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL
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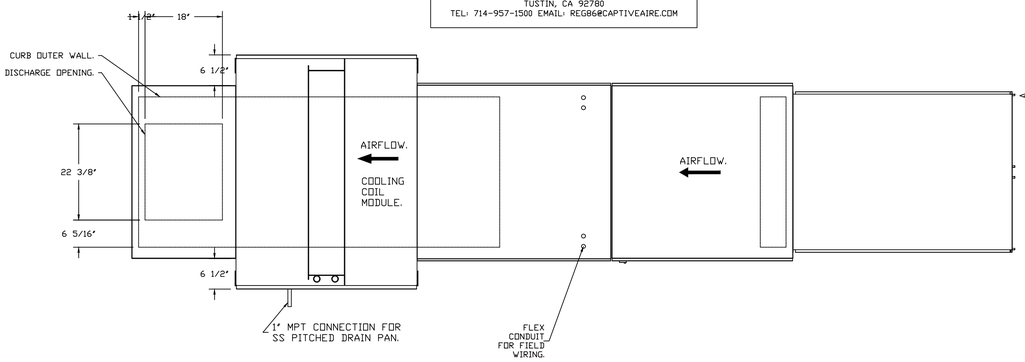
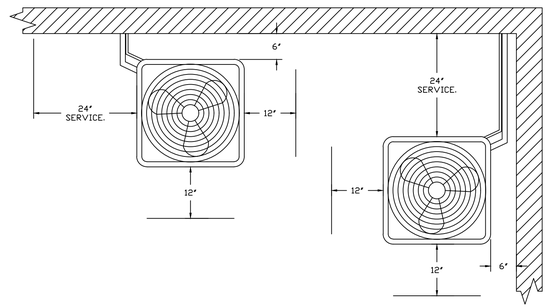
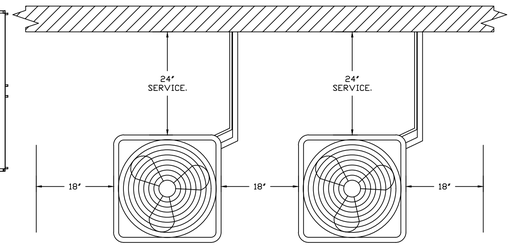
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG86@CAPTIVEAIRE.COM

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 20°F. TEMP. RISE = 100°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 496644.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 539830.

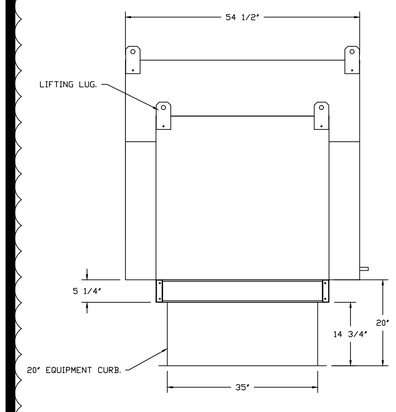


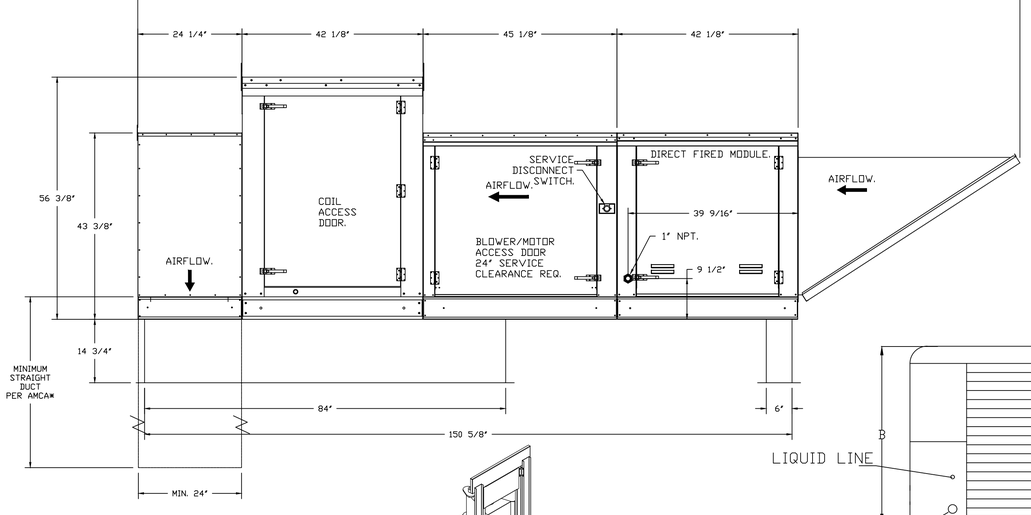



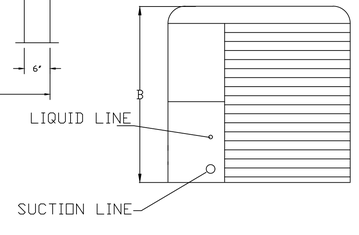



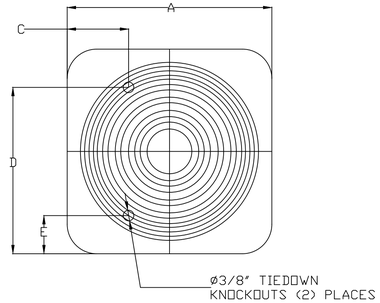

CONDENSER CLEARANCES

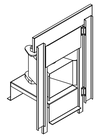
48" CLEARANCE REQUIRED ABOVE CONDENSERS.
(NOTE: **CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE).



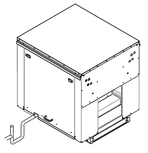



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

TYPICAL DRAIN TRAP INSTALL



RECOMMENDED COOLING COIL DRAIN TRAP CONFIGURATION.

Refer to Plumbing Detail P-500 for AC Unit Condensate Drain

NOTES: Important: Copper above roof deck where it is exposed. PVC below roof deck

1) 1" DIAMETER PVC PIPE ONLY.
2) USE ONLY LOW PROFILE COUPLINGS.
3) ADD CLEAN OUT AS SHOWN.

DIRECT FIRED (DF) PROFILE PLATE SPECIFICATIONS:

DESCRIPTION
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO: US6629503B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 9PPM OF CARBON MONOXIDE (CO), AND 63PPM OF NITROGEN DIOXIDE (NO2)DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

| | | UNIT DIMENSIONS | | | | | CONNECTION SIZES | | NOMINAL |
|---|---|---|---|---|---|---|---|---|---|
| MODEL | WEIGHT | A | B | C | D | E | SUCTION | LIQUID | TONNAGE |
| 24ABB360 | 190 LBS | 31-3/16 | 25-1/2 | 9-1/8 | 24-11/16 | 6-9/16 | 7/8 | 3/8 | 5 |

ELECTICAL INFORMATION

| MODEL | V-PH | RLA | MCA | FUSE SIZE |
|---|---|---|---|---|
| 24ABB360 | 208/230-3 | 16.0 | 21.4 | 30 |

2

REVISIONS

| | DESCRIPTION | DATE: |
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| 1 | | |

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Panda Express - Covington GA (D8518) - revl
COVINGTON, GA, 30014

**DATE:** 2/4/2022

**DWG.#:** 5311718

**DRAWN BY:** AH-86

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 6

PANDA EXPRESS CHINESE KITCHEN


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
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Facsimile: 626.372.8288



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REVISIONS:

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|---|---|
| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

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|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

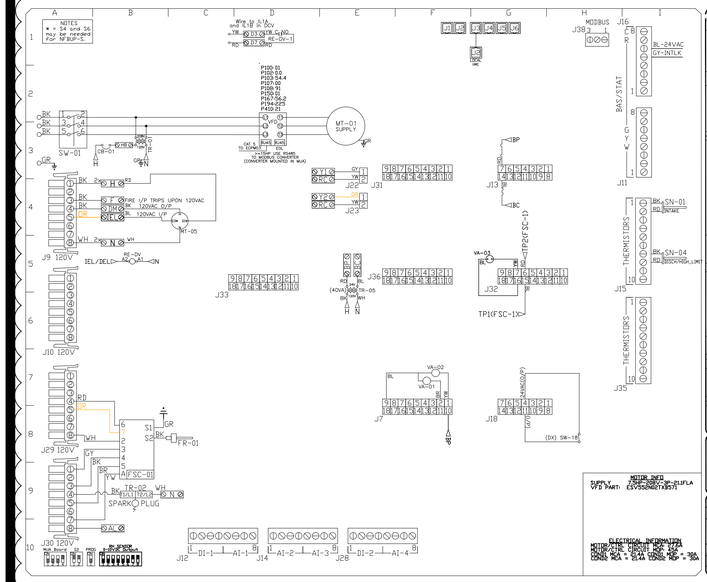
PANDA EXPRESS

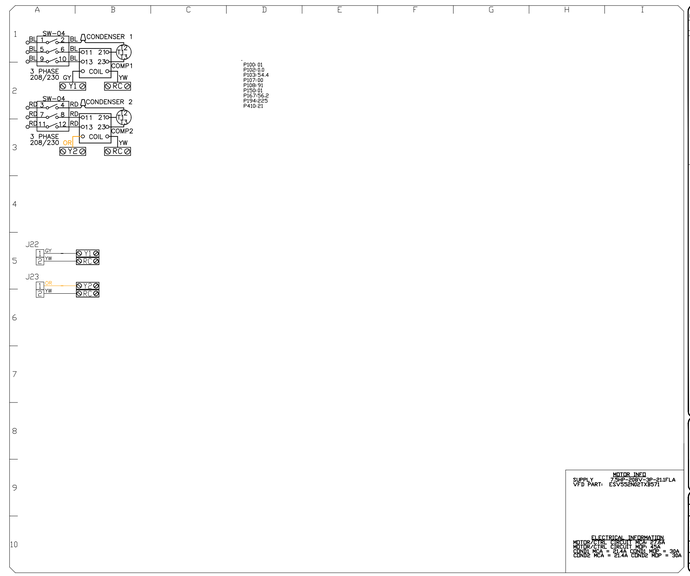
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-405

HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6




COMPONENT LIST

| LABEL | DESCRIPTION | |
|---|---|---|
| CB-01 | CIRCUIT BREAKER | BI |
| FM-01 | EVD/ECM-ACH-013-MP | BK |
| FSC-01 | FIRE/FLAME/SMOKE DETECTOR | BK |
| MT-01 | SUPPLY MOTOR | SU |
| MT-05 | EXHAUST BLOWER MTR | EX |
| RE-SV | DCV RELAY | BS/BI |
| SN-01 | TEMP SENSOR 141/5/16/17 | |
| SW-01 | DISCONNECT SWITCH | AS |
| SW-18 | IN_FLOAT_SWITCH | HK |
| TR-01 | CTRL TRANSFMR | BI |
| TR-02 | IGNITION TRANSFMR | BY |
| TR-05 | BOARD POWER TRFMR | TO |
| VA-01 | PILOT GAS VALVE | FI |
| VA-02 | MAIN GAS VALVE | FI |
| VA-03 | MOD GAS VALVE | GA |

COMPONENT LIST

| LABEL | DESCRIPTION | |
|---|---|---|
| CON-1 | CONDENSOR_1 | BI |
| CON-2 | CONDENSOR_2 | BI |
| DV-54 | DISCON_DV_45A | AI |

LEGEND
FIELD WIRING
FACTORY WIRING

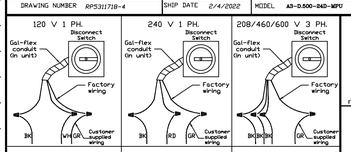
| | | | |
|---|---|---|---|
| BK- BLACK | GY- GREY | | |
| BL- BLUE | YW- YELLOW | | |
| BR- BROWN | PR- PURPLE | | |
| OR- ORANGE | PK- PINK | | |
| WH- WHITE | GR- GREEN | | |
| GR/BL- GR/BL STRIPE | | | |
| BL/RD- BL/RD STRIPE | | | |
| RD/GR- RD/GR STRIPE | | | |
| WH/BL- WH/BL STRIPE | | | |

JOB NAME: Panda Express -_
DRAWING TITLE:
DESCRIPTION OF OPERATION: MUA BOARD (DETAILS TO FOLLOW)
JOB NO: 5311718 | DRAWN BY: AUTO
DATE: FACTORY 2/4/2022
SMC MBV5311718-4

| Installation Wiring | JOB | 5311718 - Panda Express - Covington GA _ |
|---|---|---|
| DRAWING NUMBER RPS311718-4 | SHIP DATE 2/4/2022 | MODEL AS-D.500-D4D-MPU |

Installed Options

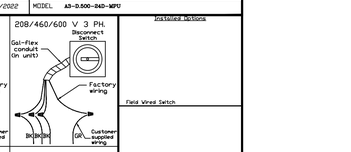
120 V 1 PH.



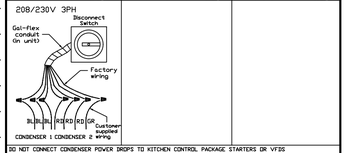

240 V 1 PH.




208/460/600 V 3 PH.

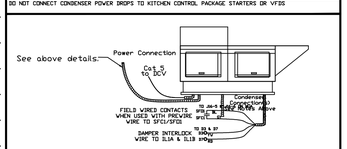



208/230V 3PH




Field Wired Switch

DO NOT CONNECT CONDENSER POWER DROPS TO KITCHEN CONTROL PACKAGE STARTERS OR VFDS




NOTES

WIRE COLOR

| | | | |
|---|---|---|---|
| BK = BLACK | YW = YELLOW | | |
| BL = BLUE | GR = GREEN | | |
| BR = BROWN | GY = GRAY | | |
| OR = ORANGE | PR = PURPLE | | |
| RD = RED | PK = PINK | | |
| WH = WHITE | | | |

REVISIONS

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Southern California Office

Panda Express - Covington GA (D8518) - rev1
COVINGTON, GA, 30014

**DATE:** 2/4/2022
**DWG.#:** 5311718
**DRAWN BY:** AH-86
**SCALE:** 3/4" = 1'-0"
**MASTER DRAWING**
**SHEET NO.** 7

2

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

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| 2 | 02.08.22 PROTOTYPE UPDATE |
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| 1 | 09.01.2021 ISSUE FOR PERMIT |
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DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-406

HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

*ELECTRICAL PACKAGE – JOB#5311718*

| NO | TAG | PACKAGE # | LOCATION | SWITCHES | | OPTION | FANS CONTROLLED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | LOCATION | QUANTITY | | TYPE | Φ | HP | VOLT | FLA |
| 1 | | DCV-2111 | WALL UTILITY CABINET LEFT | 08 - SHIP LOOSE W/ PREWIRE | 1 LIGHT<br>1 FAN | SMART CONTROLS DCV | EXHAUST | 3 | 3.000 | 208 | 9.5 |
| | | | | | | | EXHAUST | 3 | 2.000 | 208 | 8.3 |
| | | | | | | | SUPPLY | 3 | 7.500 | 208 | 21.1 |

JOB NO 5311718 | MODEL NUMBER DCV-2111 | JOB NAME Panda Express - Covington GA ... | DRAWN BY | DATE 2/4/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
Smart Control Ventilation, w/ control for 2 Exhaust fans, 1 Supply fan,Exhaust an in fire, Lights out in fire, Fans modulate based on duct temperature, INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation/verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 Feet.

## BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

BREAKER PANEL — PRIMARY CONTROL PANEL

BREAKER 1PH 120 V 15 A — Hot, Neutral, Ground — CONTROL POWER, DO NOT WIRE TO GFCI OR SHUNT TRIP BREAKER. 1ST HOOD LIGHT BREAKER SHARES W/ CONTROL POWER SWITCH #1

BREAKER 3PH 208 V MCA: 11.9 A MOCP: 20 A — EXH-1 SM-1 — WIRE TO VFD QUICK CONNECTOR

BREAKER 3PH 208 V MCA: 10.4 A MOCP: 20 A — EXH-2 SM-2 — WIRE TO VFD QUICK CONNECTOR

## BREAKER PANEL TO FANS
Responsibility: Electrician

BREAKER PANEL — FANS

BREAKER 3PH 208V MCA: 26.4A MOCP: 40A — SUP-4 SM-3 — WIRE DIRECTLY TO FAN DISCONNECT — POWER TO REMOTE VFD

3 PHASE 208-230 30 Amps — SUP-4 COND 1 — POWER TO CONDENSER

3 PHASE 208-230 30 Amps — SUP-4 COND 2 — POWER TO CONDENSER

## CONTROL PANEL TO FANS
Responsibility: Electrician

PRIMARY PANEL — FANS

Load Wires SM-1 WIRE TO VFD QUICK CONNECTOR — U1 V1 W1 GND — LOAD LEG 1, LOAD LEG 2, LOAD LEG 3, GROUND — FAN 01 — EXH-1 — WIRE TO DISCONNECT — FLA 9.5 HP: 3.000 VOLT: 208 V

MUST HAVE ITS OWN CONDUIT DO NOT SHARE CONDUIT!

Load Wires SM-2 WIRE TO VFD QUICK CONNECTOR — U2 V2 W2 GND — LOAD LEG 1, LOAD LEG 2, LOAD LEG 3, GROUND — FAN 02 — EXH-2 — WIRE TO DISCONNECT — FLA 8.3 HP: 2.000 VOLT: 208 V

MUST HAVE ITS OWN CONDUIT DO NOT SHARE CONDUIT!

ECPM03 TO SUP-4 MOUNTED VFD COM LINK — ECPM03 J3 — CAT-5 CONNECTION. REMOVE EOL FROM THE LAST MODBUS SLAVE CONNECTED TO J3 NETWORK AND WIRE IN THE CAT-5 CABLE. PLACE EOL IN EMPTY RJ-45. — SM-3 — EOL120A 2 — WIRE TO UNIT INTERLOCK

FAN START SIGNAL TO MUA BOARD SUP-4 — STR, SPD — 0-10V

MAKE UP AIR ON PCB DAMPER PROVING INTERLOCK — REMOVE JUMPER — LOW VOLTAGE CONNECTION FOR DAMPER INTERLOCK. WIRE MULTIPLE SUPPLY ON THE SAME CIRCUIT. INTERLOCK WILL HAVE CONTINUITY WHEN DAMPER IS PROVEN OPEN. NOT REQUIRED FOR ALL UNITS. SEE MAKE-UP AIR SCHEMATIC. — MUA ZONE 1, MUA ZONE 2 — TERMINAL MARKED P ALSO IS STRIKE

## CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician

CONTROL PANEL — COMPONENT

CONTROL PANEL TO FIRE SYSTEM MICROSWITCH — PWR, COM — WIRE 01 TO COMMON (C). WIRE ANY TO NORMALLY CLOSED (2). TO ARM SHOULD HAVE CONTINUITY WHEN ARMED. — MICROSWITCH 1 — 1AND OFF 2SYNC

IF MORE THAN ONE FIRE SYSTEM, WIRE IN SERIES AS SHOWN — MS-1 — 1AND OFF 2SYNC

MS-2 — 1AND OFF 2SYNC

| | | | |
|---|---|---|---|
| CONTROL PANEL TO REMOTE MOUNTED SWITCHES | T14 | WIRE DIRECTLY TO CONTROL BOARD CAT-5 CONNECTION | HMI |
| | | PLACE END OF LINE PLUG IN EMPTY JACK PN EOL120A | EOL120A 2 |
| CONTROL PANEL TO HOOD LIGHTS 1400 W MAX | B1 | BLACK | HOOD LIGHTS 1 |
| | W1 | WHITE | |
| | GND | GREEN | |
| | | WIRE TO J-BOX ON TOP OF HOOD | |
| CONTROL PANEL TO TEMP SENSOR | T2A | WIRE TO CONTROL BOARD. INSTALL SENSOR IN ROOM AWAY FROM HEAT SOURCES. DO NOT INSTALL SENSOR ON THE CEILING GRID. SEE MANUAL. | ROOM TEMP |
| | T2B | | |
| CONTROL PANEL TO CAPTURE VOLUME SENSOR | T3A | WIRE TO CONTROL BOARD. SENSOR MOUNTED IN HOOD CAPTURE VOLUME | HOOD 1 CAPTURE 1 |
| | T3B | | |
| CONTROL PANEL TO CAPTURE VOLUME SENSOR | T4A | WIRE TO CONTROL BOARD. SENSOR MOUNTED IN HOOD CAPTURE VOLUME | HOOD 2 CAPTURE 1 |
| | T4B | | |
| | | THE FOLLOWING CONNECTIONS MAY OR MAY NOT BE REQUIRED, DEPENDING ON JURISDICTIONAL SPECIFICATIONS | |
| CONTROL PANEL SIGNAL FOR EXTERNAL SHUNT TRIP | KS | HOT TO SHUNT COIL | SHUNT COIL |
| | KS | NEUTRAL FROM SHUNT COIL | |
| CONTROL PANEL SIGNAL FOR EXTERNAL CONTACTOR COIL | KS | ST TERMINAL IS ENERGIZED IN FIRE CONDITION. HOT TO CONTACTOR COIL | CONTACTOR COIL |
| | KS | NEUTRAL TO CONTACTOR COIL. KS TERMINAL IS DE-ENERGIZED IN FIRE CONDITION. | |
| CONTROL PANEL SPARE FIRE CONTACT | SFC | COMMON | |
| | SFO | NORMALLY OPEN | |
| SYSTEM DRY CONTACT | | SPARE CONTACTS WILL MAKE CP TO ARE WHEN SYSTEM IS ARMED "SET" AND WILL OPEN WHEN SYSTEM IS IN ALARM OR PROVIDE SIGNALS (NOT FOR BUILDING FIRE ALARM WHICH MUST BE HARD WIRED TO THE FACP'S INITIATING SWITCH LOCATED IN ANSUL AUTOMAN) | |
| CONTROL PANEL DRY CONTACT ON/OFF WITH SUPPLY FAN GROUP 1 | DFC | COMMON | |
| | DFO | NORMALLY OPEN | |
| | DFC | COMMON | |
| | DFO | NORMALLY OPEN | |
| | | SPARE CONTACTS WILL MAKE CP TO ARE WHEN SYSTEM IS IN WHEN SUPPLY FAN IS ON. | |
| DCV SPEED 0-10V OUTPUT ON PCB | VO | TO ECPM03 TERMINALS | * - TO IMS |
| | GND | ANALOG COMMON | |
| (TOTAL) | | SEE ECPM03 OWNERS MANUAL. | |

## CONTROL PANEL TO IMS

VFD ANALOG 0-10V OUTPUT (EACH VFD) — 0-10V, GND — WIRE TO VFD TERMINAL STRIP. PROPORTIONAL TO FREQUENCY. SEE VFD OWNERS MANUAL. — IN VFD — * - TO IMS

CONTROL PANEL TO EXTERNAL SWITCH — SW, GND — SIGNAL SWITCH THROUGH BMS TO ACTIVATE ZONES FANS AND LIGHTS — BMS SWITCH — GND

UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC WIRING 16 AWG. ALL FACTORY DC WIRING 18 AWG.

J9 120V: N1 CONTROL INPUT 120V; GAS GAS; KS KS; ST ST; H1 H; PANEL LID GR

INSTALLATION SCHEMATIC FOR ADDITIONAL RED TERMINAL GAS USED FOR 120V POWERED GAS VALVES ONLY

24V transformer: 120VAC, 24VAC, 24VDC; PS-1, PS-2; GND, NEU, DC-, DC+

J7 120V: H1, B1, ST, SF1, DV1; BK 14AWG; RD-1; WH-1; GRN/YEL; W1 JUMPER

DC+ BK (18) PSL-2201

MAKE UP AIR INTERLOCK JUMPER JUMPER: 5 5 5 5 — J20 ECPM03, J22 ECPM03

AR1 BK (7)(A1-2)(18) WH — CN1; SF1 BK (7)(A1-2)(18) WH

EF1 BK — FAN — WH — PANEL COOLING

EF1 BK — FAN — WH — SECONDARY PANEL COOLING IF NECESSARY

NOTE: All items on ECPM03 J3 line to be daisy chained from one component to the next, with EOL120A at end of line. Place PN EOL120A in empty RJ45 port.
ECPM03/DAISY CHAIN

L4 L3 L2 L1 — 24VAC — SM-1, SM-2, SM-3 — 1 2

## MOTOR POWER CIRCUIT

NOTE: IF VFS HAS 1PH 240V INPUT, USE L1 & L2 ONLY. IF VFS HAS 1PH 120V INPUT, USE L1 & N ONLY.

3 PH, 208 V, 20 A — 14 AWG — SM-1 — MTR-EXH-1, FLA-9.5, HP-3.000, P102A/B, P103A/B, P104A/B, P105A/B, P106A/B, P107A/B, P108A/B, P109A/B, P110A/B, P111A/B, P112A/B, P113A/B, P114A/B, P115A/B, P116A/B, P117A/B, P118A/B, P119A/B, P120A/B, P121A/B, P122A/B, P123A/B, P124A/B, P125A/B, P126A/B, P127A/B, P128A/B, P129A/B, P130A/B, P131A/B, P132A/B, P133A/B, P134A/B, P135A/B, P136A/B, P137A/B, P138A/B, P139A/B, P140A/B, P141A/B, P142A/B, P143A/B, P144A/B, P145A/B, P146A/B, P147A/B, P148A/B, P149A/B, P150A/B, P151A/B, P152A/B, P153A/B, P154A/B, P155A/B, P156A/B, P157A/B, P158A/B, P159A/B, P160A/B, P161A/B, P162A/B, P163A/B, P164A/B, P165A/B, P166A/B, P167A/B, P168A/B, P169A/B, P170A/B, P171A/B, P172A/B, P173A/B, P174A/B, P175A/B, P176A/B, P177A/B, P178A/B, P179A/B, P180A/B, P181A/B, P182A/B, P183A/B, P184A/B, P185A/B, P186A/B, P187A/B, P188A/B, P189A/B, P190A/B, P191A/B, P192A/B, P193A/B, P194A/B, P195A/B, P196A/B, P197A/B, P198A/B, P199A/B, P200A/B, P201A/B, P202A/B, P203A/B, P204A/B, P205A/B, P206A/B, P207A/B, P208A/B, P209A/B, P210A/B, P211A/B, P212A/B, P213A/B, P214A/B, P215A/B, P216A/B, P217A/B, P218A/B, P219A/B, P220A/B, P221A/B, P222A/B, P223A/B, P224A/B, P225A/B, P226A/B, P227A/B, P228A/B, P229A/B, P230A/B, P231A/B, P232A/B, P233A/B, P234A/B, P235A/B, P236A/B, P237A/B, P238A/B, P239A/B, P240A/B, P241A/B, P242A/B, P243A/B, P244A/B, P245A/B, P246A/B, P247A/B, P248A/B, P249A/B, P250A/B, P251A/B, P252A/B, P253A/B, P254A/B, P255A/B, P256A/B, P257A/B, P258A/B, P259A/B, P260A/B, P261A/B, P262A/B, P263A/B, P264A/B, P265A/B, P266A/B, P267A/B, P268A/B, P269A/B, P270A/B, P271A/B, P272A/B, P273A/B, P274A/B, P275A/B, P276A/B, P277A/B, P278A/B, P279A/B, P280A/B, P281A/B, P282A/B, P283A/B, P284A/B, P285A/B, P286A/B, P287A/B, P288A/B, P289A/B, P290A/B, P291A/B, P292A/B, P293A/B, P294A/B, P295A/B, P296A/B, P297A/B, P298A/B, P299A/B, P300A/B, P301A/B, P302A/B, P303A/B, P304A/B, P305A/B, P306A/B, P307A/B, P308A/B, P309A/B, P310A/B, P311A/B, P312A/B, P313A/B, P314A/B, P315A/B, P316A/B, P317A/B, P318A/B, P319A/B, P320A/B, P321A/B, P322A/B, P323A/B, P324A/B, P325A/B, P326A/B, P327A/B, P328A/B, P329A/B, P330A/B, P331A/B, P332A/B, P333A/B, P334A/B, P335A/B, P336A/B, P337A/B, P338A/B, P339A/B, P340A/B, P341A/B, P342A/B, P343A/B, P344A/B, P345A/B, P346A/B, P347A/B, P348A/B, P349A/B, P350A/B, P351A/B, P352A/B, P353A/B, P354A/B, P355A/B, P356A/B, P357A/B, P358A/B, P359A/B, P360A/B, P361A/B, P362A/B, P363A/B, P364A/B, P365A/B, P366A/B, P367A/B, P368A/B, P369A/B, P370A/B, P371A/B, P372A/B, P373A/B, P374A/B, P375A/B, P376A/B, P377A/B, P378A/B, P379A/B, P380A/B, P381A/B, P382A/B, P383A/B, P384A/B, P385A/B, P386A/B, P387A/B, P388A/B, P389A/B, P390A/B, P391A/B, P392A/B, P393A/B, P394A/B, P395A/B, P396A/B, P397A/B, P398A/B, P399A/B, P400A/B, P401A/B, P402A/B, P403A/B, P404A/B, P405A/B, P406A/B, P407A/B, P408A/B, P409A/B, P410A/B, P411A/B, P412A/B, P413A/B, P414A/B, P415A/B, P416A/B, P417A/B, P418A/B, P419A/B, P420A/B, P421A/B

10 AWG TO MOTOR, GND — BK — SM-2 — MTR-EXH-2, FLA-8.3, HP-3.000, P100A/B, P101A/B, P102A/B, P103A/B, P104A/B, P105A/B, P106A/B, P107A/B, P108A/B, P109A/B, P110A/B, P111A/B, P112A/B, P113A/B, P114A/B, P115A/B, P116A/B, P117A/B, P118A/B, P119A/B, P120A/B, P121A/B, P122A/B, P123A/B, P124A/B, P125A/B, P126A/B, P127A/B, P128A/B, P129A/B, P130A/B, P131A/B, P132A/B, P133A/B, P134A/B, P135A/B, P136A/B, P137A/B, P138A/B, P139A/B, P140A/B, P141A/B, P142A/B, P143A/B, P144A/B, P145A/B, P146A/B, P147A/B, P148A/B, P149A/B, P150A/B, P151A/B, P152A/B, P153A/B, P154A/B, P155A/B, P156A/B, P157A/B, P158A/B, P159A/B, P160A/B, P161A/B, P162A/B, P163A/B, P164A/B, P165A/B, P166A/B, P167A/B, P168A/B, P169A/B, P170A/B, P171A/B, P172A/B, P173A/B, P174A/B, P175A/B, P176A/B, P177A/B, P178A/B, P179A/B, P180A/B, P181A/B, P182A/B, P183A/B, P184A/B, P185A/B, P186A/B, P187A/B, P188A/B, P189A/B, P190A/B, P191A/B, P192A/B, P193A/B, P194A/B, P195A/B, P196A/B, P197A/B, P198A/B, P199A/B, P200A/B, P201A/B, P202A/B, P203A/B, P204A/B, P205A/B, P206A/B, P207A/B, P208A/B, P209A/B, P210A/B, P211A/B, P212A/B, P213A/B, P214A/B, P215A/B, P216A/B, P217A/B, P218A/B, P219A/B, P220A/B, P221A/B, P222A/B, P223A/B, P224A/B, P225A/B, P226A/B, P227A/B, P228A/B, P229A/B, P230A/B, P231A/B, P232A/B, P233A/B, P234A/B, P235A/B, P236A/B, P237A/B, P238A/B, P239A/B, P240A/B, P241A/B, P242A/B, P243A/B, P244A/B, P245A/B, P246A/B, P247A/B, P248A/B, P249A/B, P250A/B, P251A/B, P252A/B, P253A/B, P254A/B, P255A/B, P256A/B, P257A/B, P258A/B, P259A/B, P260A/B, P261A/B, P262A/B, P263A/B, P264A/B, P265A/B, P266A/B, P267A/B, P268A/B, P269A/B, P270A/B, P271A/B, P272A/B, P273A/B, P274A/B, P275A/B, P276A/B, P277A/B, P278A/B, P279A/B, P280A/B, P281A/B, P282A/B, P283A/B, P284A/B, P285A/B, P286A/B, P287A/B, P288A/B, P289A/B, P290A/B, P291A/B, P292A/B, P293A/B, P294A/B, P295A/B, P296A/B, P297A/B, P298A/B, P299A/B, P300A/B, P301A/B, P302A/B, P303A/B, P304A/B, P305A/B, P306A/B, P307A/B, P308A/B, P309A/B, P310A/B, P311A/B, P312A/B, P313A/B, P314A/B, P315A/B, P316A/B, P317A/B, P318A/B, P319A/B, P320A/B, P321A/B, P322A/B, P323A/B, P324A/B, P325A/B, P326A/B, P327A/B, P328A/B, P329A/B, P330A/B, P331A/B, P332A/B, P333A/B, P334A/B, P335A/B, P336A/B, P337A/B, P338A/B, P339A/B, P340A/B, P341A/B, P342A/B, P343A/B, P344A/B, P345A/B, P346A/B, P347A/B, P348A/B, P349A/B, P350A/B, P351A/B, P352A/B, P353A/B, P354A/B, P355A/B, P356A/B, P357A/B, P358A/B, P359A/B, P360A/B, P361A/B, P362A/B, P363A/B, P364A/B, P365A/B, P366A/B, P367A/B, P368A/B, P369A/B, P370A/B, P371A/B, P372A/B, P373A/B, P374A/B, P375A/B, P376A/B, P377A/B, P378A/B, P379A/B, P380A/B, P381A/B, P382A/B, P383A/B, P384A/B, P385A/B, P386A/B, P387A/B, P388A/B, P389A/B, P390A/B, P391A/B, P392A/B, P393A/B, P394A/B, P395A/B, P396A/B, P397A/B, P398A/B, P399A/B, P400A/B, P401A/B, P402A/B, P403A/B, P404A/B, P405A/B, P406A/B, P407A/B, P408A/B, P409A/B, P410A/B, P411A/B, P412A/B, P413A/B, P414A/B, P415A/B, P416A/B, P417A/B, P418A/B, P419A/B, P420A/B, P421A/B

3 PH, 208 V, 40 A — 14 AWG — SM-2 — MTR-EXH-2, FLA-8.3, HP-3.000, P100A/B, P101A/B, P102A/B, P103A/B, P104A/B, P105A/B, P106A/B, P107A/B, P108A/B, P109A/B, P110A/B, P111A/B, P112A/B, P113A/B, P114A/B, P115A/B, P116A/B, P117A/B, P118A/B, P119A/B, P120A/B, P121A/B, P122A/B, P123A/B, P124A/B, P125A/B, P126A/B, P127A/B, P128A/B, P129A/B, P130A/B, P131A/B, P132A/B, P133A/B, P134A/B, P135A/B, P136A/B, P137A/B, P138A/B, P139A/B, P140A/B, P141A/B, P142A/B, P143A/B, P144A/B, P145A/B, P146A/B, P147A/B, P148A/B, P149A/B, P150A/B, P151A/B, P152A/B, P153A/B, P154A/B, P155A/B, P156A/B, P157A/B, P158A/B, P159A/B, P160A/B, P161A/B, P162A/B, P163A/B, P164A/B, P165A/B, P166A/B, P167A/B, P168A/B, P169A/B, P170A/B, P171A/B, P172A/B, P173A/B, P174A/B, P175A/B, P176A/B, P177A/B, P178A/B, P179A/B, P180A/B, P181A/B, P182A/B, P183A/B, P184A/B, P185A/B, P186A/B, P187A/B, P188A/B, P189A/B, P190A/B, P191A/B, P192A/B, P193A/B, P194A/B, P195A/B, P196A/B, P197A/B, P198A/B, P199A/B, P200A/B, P201A/B, P202A/B, P203A/B, P204A/B, P205A/B, P206A/B, P207A/B, P208A/B, P209A/B, P210A/B, P211A/B, P212A/B, P213A/B, P214A/B, P215A/B, P216A/B, P217A/B, P218A/B, P219A/B, P220A/B, P221A/B, P222A/B, P223A/B, P224A/B, P225A/B, P226A/B, P227A/B, P228A/B, P229A/B, P230A/B, P231A/B, P232A/B, P233A/B, P234A/B, P235A/B, P236A/B, P237A/B, P238A/B, P239A/B, P240A/B, P241A/B, P242A/B, P243A/B, P244A/B, P245A/B, P246A/B, P247A/B, P248A/B, P249A/B, P250A/B, P251A/B, P252A/B, P253A/B, P254A/B, P255A/B, P256A/B, P257A/B, P258A/B, P259A/B, P260A/B, P261A/B, P262A/B, P263A/B, P264A/B, P265A/B, P266A/B, P267A/B, P268A/B, P269A/B, P270A/B, P271A/B, P272A/B, P273A/B, P274A/B, P275A/B, P276A/B, P277A/B, P278A/B, P279A/B, P280A/B, P281A/B, P282A/B, P283A/B, P284A/B, P285A/B, P286A/B, P287A/B, P288A/B, P289A/B, P290A/B, P291A/B, P292A/B, P293A/B, P294A/B, P295A/B, P296A/B, P297A/B, P298A/B, P299A/B, P300A/B, P301A/B, P302A/B, P303A/B, P304A/B, P305A/B, P306A/B, P307A/B, P308A/B, P309A/B, P310A/B, P311A/B, P312A/B, P313A/B, P314A/B, P315A/B, P316A/B, P317A/B, P318A/B, P319A/B, P320A/B, P321A/B, P322A/B, P323A/B, P324A/B, P325A/B, P326A/B, P327A/B, P328A/B, P329A/B, P330A/B, P331A/B, P332A/B, P333A/B, P334A/B, P335A/B, P336A/B, P337A/B, P338A/B, P339A/B, P340A/B, P341A/B, P342A/B, P343A/B, P344A/B, P345A/B, P346A/B, P347A/B, P348A/B, P349A/B, P350A/B, P351A/B, P352A/B, P353A/B, P354A/B, P355A/B, P356A/B, P357A/B, P358A/B, P359A/B, P360A/B, P361A/B, P362A/B, P363A/B, P364A/B, P365A/B, P366A/B, P367A/B, P368A/B, P369A/B, P370A/B, P371A/B, P372A/B, P373A/B, P374A/B, P375A/B, P376A/B, P377A/B, P378A/B, P379A/B, P380A/B, P381A/B, P382A/B, P383A/B, P384A/B, P385A/B, P386A/B, P387A/B, P388A/B, P389A/B, P390A/B, P391A/B, P392A/B, P393A/B, P394A/B, P395A/B, P396A/B, P397A/B, P398A/B, P399A/B, P400A/B, P401A/B, P402A/B, P403A/B, P404A/B, P405A/B, P406A/B, P407A/B, P408A/B, P409A/B, P410A/B, P411A/B, P412A/B, P413A/B, P414A/B, P415A/B, P416A/B, P417A/B, P418A/B, P419A/B, P420A/B, P421A/B

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Mounted in Fan — VFS-ESV020N2YXB3 — P410-01

## DRY CONTACTS (SHOWN DE-ENERGIZED)

14 AWG — SM-1-1 — ON/OFF WITH FIRE — TV, SUP

14 AWG — SM-2-1 — ON/OFF WITH FIRE — TV, SUP

14 AWG — SM-2-2 — TV

SC-20 x 10 x 8.62 BOX

**FACTORY WIRING SCHEMATIC CIRCUIT BOARDS ECPM03**
DCV Rev. 2.14.00
HMI Rev. 2.14.00

| Relay 120 VAC | | | Relay 24 VDC |
|---|---|---|---|
| RELAY | | | RELAY |
| NC | 1 | 1 | NC |
| NO | 2 | 2 | NO |
| COM | 8 | 5 | COM |

**COMPONENT LIST**

| LABEL | MANUFACTURER |
|---|---|
| ST-X | Starter |
| OL-X | Overload relay |
| C-X | Contactor |
| PS-1 | Power Sup. 24VDC MDR-20-24-U |
| RR-x | 120V Relay DPST 24-28VAC |
| RD-x | 24VDC Light Relay 24-28VAC |

**LEGEND**
FIELD WIRING
FACTORY WIRING
BK- BLACK, YW- YELLOW, BL- BLUE, BR- BROWN, PR- PURPLE, OR- ORANGE, RD- RED, WH- WHITE, BK/BL- BK/BL STRIPE, BK/RD- BK/RD STRIPE, BK/GN- BK/GN STRIPE, WH/BL- WH/BL STRIPE

PANDA EXPRESS — DCV-2111
DESCRIPTION OF OPERATION:
General Control Ventilation, w/ control for 2 Exhaust Fans, 1 Supply Fan,Exhaust an in Fire,Lights out in Fire,Fans modulate based on duct temperature, INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose For Field Installation/verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 Feet.
JOB NO 5311718 | DRAWN BY | DATE FACTORY 2/4/2022 | DWG NO ECP #1-3

**REVISIONS**

| | DESCRIPTION | DATE: |
|---|---|---|
| 1 | | |
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www.captiveaire.com


Panda Express - Covington GA (D5518) - rev1
COVINGTON, GA, 30014

**DATE:** 2/4/2022
**DWG.#:** 5311718
**DRAWN BY:** AH-86
**SCALE:** 3/4" = 1'-0"
**MASTER DRAWING**
**SHEET NO.** 8


PANDA EXPRESS CHINESE KITCHEN
PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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REVISIONS:

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|---|---|
| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

GEORGIA REGISTERED No. PE004481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-407

HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

## DUCTWORK #1 PARTS – JOB#5311718 DOUBLE WALL

| TAG | PART # | CFM | GPM | ZONE | COVEREDBY | SP | WEIGHT | VELOCITY | QTY | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| P1 | DW1829DWLT-2R-S | 3400 | | | | -0.009 | 50.46 | 1924.01 | 1 | DOUBLE WALL DUCT - 18" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P2 | DW1847DWAJD-2R-S | 3400 | | | | -0.009 | 107.98 | 1924.01 | 1 | DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS. |
| P3 | DW1890DWASY-2R-S | 3400 | | | | -0.115 | 45.59 | 1924.01 | 1 | DOUBLE WALL DUCT - 18" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P4 | DW1801DWOFFSETASY-2R-S | 3400 | | | | -0.003 | 14.66 | 1924.01 | 1 | DOUBLE WALL DUCT - 18" INNER DUCT RISER & 1 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P5 | DW1827DWAJD-2R-S | 3400 | | | | -0.006 | 62.85 | 1924.01 | 1 | DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 24.5" / ADJUSTMENT = 13.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS. |
| P6 | DW2226SADKIT | | | | | | 8.80 | | 1 | DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4. |
| P7 | DW1801DWOFFSETASY-2R-S | 3400 | | | | -0.003 | 14.66 | 1924.01 | 1 | DOUBLE WALL DUCT - 18" INNER DUCT RISER & 1 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P8<br>ASSEMBLED W/P9 | DW18DWTEASY-2R-S | 3400 | | 1 | | -0.23 | 55.68 | 1924.01 | 1 | DOUBLE WALL DUCT - 18" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P9<br>ASSEMBLED W/P8 O=S | DW18DWACCDOORCOV-2R-S | | | | | | 26.16 | | 1 | DOUBLE WALL DUCT - 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P10<br>ASSEMBLED W/P11 | DW1835DWLTTP-2R-S | 3400 | | | | -0.011 | 58.74 | 1924.01 | 1 | DOUBLE WALL DUCT - 18" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATES |
| P11<br>ASSEMBLED W/P10 | DW2618TPDBEX | 3400 | | | | | 9.00 | 1924.01 | 1 | DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART. |
| SYSTEM AT P11 | | | | | | -1.588 | 0.00 | | | |
| P12 | DW2226SADKIT | | | | | | 8.80 | | 1 | DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4. |
| | 3M-2000PLUS | | | | | | 0.80 | | 3 | DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS. |
| | DW18DWCLASY-2R-S | | | | | | 8.70 | | 3 | DUCT - 18" DUCT - 22" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE. |
| TOTAL WEIGHT | | | | | | | 491.88 | | | |

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

| HORIZONTAL | |
|---|---|
| DUCT DIAMETER | SUPPORT SPACING (FT) |
| 5" | 7' |
| 6" | 7' |
| 7" | 7' |
| 8" | 7' |
| 10" | 7' |
| 12" | 7' |
| 14" | 7' |
| 16" | 7' |
| 18" | 5' |
| 20" | 5' |
| 22" | 5' |
| 24" | 5' |
| 26" | 5' |
| 28" | 5' |
| 30" | 5' |
| 32" | 5' |
| 34" | 5' |
| 36" | 5' |

| VERTICAL | | | |
|---|---|---|---|
| TYPE | WALL SUPPORT (FT) | CURB SUPPORT (FT) | FLOOR SUPPORT (FT) |
| 2R & 2R HT (5'-16') | 20' | 24' | 24' |
| 2R (18') | 18' | 24' | 24' |
| 3R & 3Z (5'-24') | 10' | 24' | 24' |
| 3Z (26' -36') | 10' | 20' | 20' |

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

**REVISIONS**

| | DESCRIPTION | DATE: |
|---|---|---|
| 2 | | |
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Panda Express - Covington GA (D8518) - rev1
COVINGTON, GA, 30014

**DATE:** 2/4/2022

**DWG.#:** 5311718

**DRAWN BY:** AH-86

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 9


PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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| 2 | 02.08.22 PROTOTYPE UPDATE |

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|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS

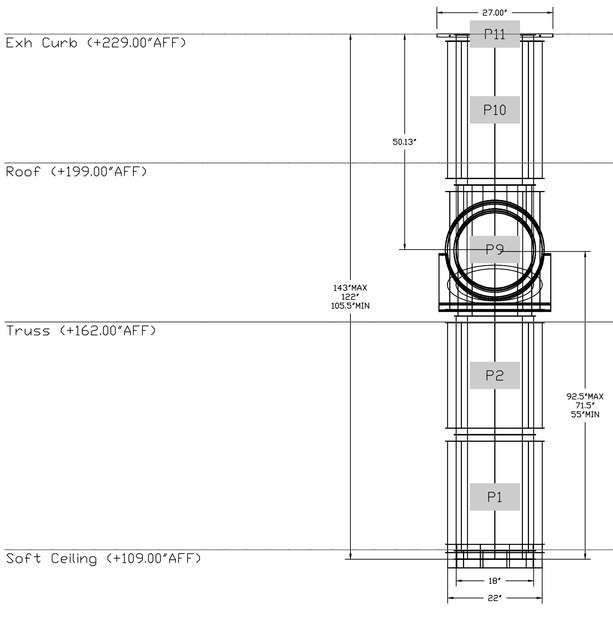
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-408

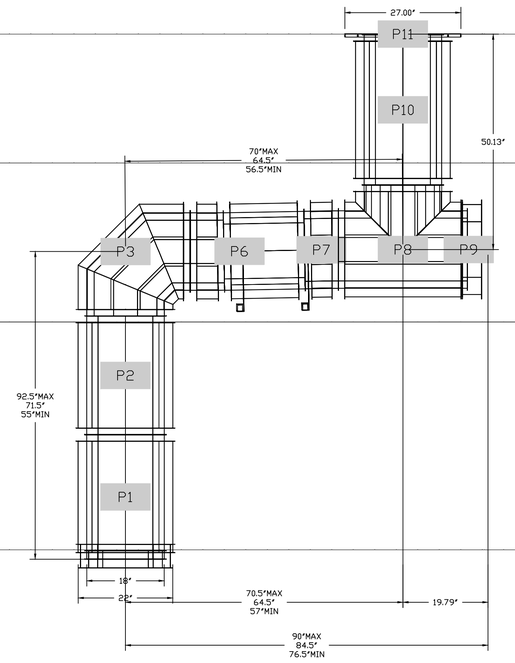
HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

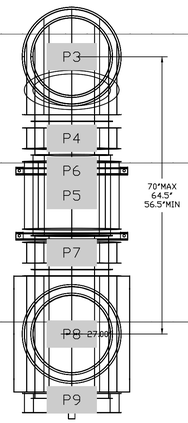
DUCTWORK #1 FRONT VIEW



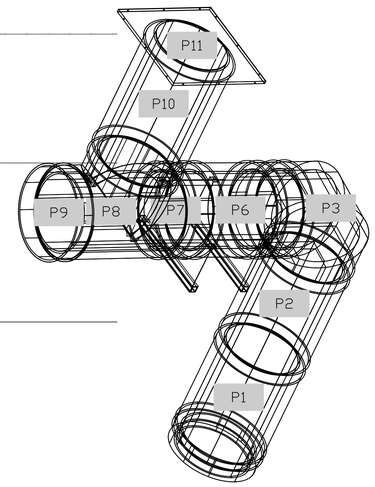

DUCTWORK #1 SIDE VIEW




DUCTWORK #1 TOP VIEW




DUCTWORK #1 SE VIEW




Floor (+0.00"AFF)

**REVISIONS**

| | DESCRIPTION | DATE: |
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**Southern California Office**

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Panda Express - Covington GA (D8518) - rev1

COVINGTON, GA, 30014

**DATE:** 2/4/2022

**DWG.#:** 5311718

**DRAWN BY:** AH-86

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 10

△2

PANDA EXPRESS CHINESE KITCHEN


PANDA RESTAURANT GROUP INC.
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Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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| △2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518

C&P PROJECT #: - 2210604


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02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-409

HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

## *DUCTWORK #2 PARTS – JOB#5311718 DOUBLE WALL*

| TAG | PART # | CFM | GPM | ZONE | COVEREDBY | SP | WEIGHT | VELOCITY | QTY | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| P1 | DW1829DWLT-2R-S | 2900 | | | | -0.007 | 50.46 | 1641.06 | 1 | DDUBLE WALL DUCT - 18" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P2 | DW1847DWAJD-2R-S | 2900 | | | | -0.006 | 107.98 | 1641.06 | 1 | DDUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DDUBLE WALL "V" CLAMPS. |
| P3 | DW1890DWASY-2R-S | 2900 | | | | -0.084 | 45.59 | 1641.06 | 1 | DDUBLE WALL DUCT - 18" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P4 | DW1801DWOFFSETASY-2R-S | 2900 | | | | -0.002 | 14.66 | 1641.06 | 1 | DDUBLE WALL DUCT - 18" INNER DUCT RISER & 1 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P5 | DW1827DWAJD-2R-S | 2900 | | | | -0.004 | 62.85 | 1641.06 | 1 | DDUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 24.5" / ADJUSTMENT = 13.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DDUBLE WALL "V" CLAMPS. |
| P6 | DW2226SADKIT | | | | | | 8.80 | | 1 | DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4. |
| P7 | DW1801DWOFFSETASY-2R-S | 2900 | | | | -0.002 | 14.66 | 1641.06 | 1 | DDUBLE WALL DUCT - 18" INNER DUCT RISER & 1 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P8 ASSEMBLED W/P9 | DW18DWTEASY-2R-S | 2900 | | 1 | | -0.168 | 55.68 | 1641.06 | 1 | DDUBLE WALL DUCT - 18" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P9 ASSEMBLED W/P8 O=S | DW18DWACCDOORCOV-2R-S | | | | | | 26.16 | | 1 | DDUBLE WALL DUCT - 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. |
| P10 ASSEMBLED W/P11 | DW1835DWLTTP-2R-S | 2900 | | | | -0.008 | 58.74 | 1641.06 | 1 | DDUBLE WALL DUCT - 18" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATES |
| P11 ASSEMBLED W/P10 | DW2618TPDBEX | 2900 | | | | | 9.00 | 1641.06 | 1 | DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART. |
| SYSTEM AT P11 | | | | | | -1.178 | 0.00 | | | |
| P12 | DW2226SADKIT | | | | | | 8.80 | | 1 | DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4. |
| | 3M-2000PLUS | | | | | | 0.80 | | 3 | DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS. |
| | DW18DWCLASY-2R-S | | | | | | 8.70 | | 3 | DUCT - 18" DUCT - 22" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE. |
| TOTAL WEIGHT | | | | | | | 491.88 | | | |

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

| HORIZONTAL | |
|---|---|
| DUCT DIAMETER | SUPPORT SPACING (FT) |
| 5" | 7' |
| 6" | 7' |
| 7" | 7' |
| 8" | 7' |
| 10" | 7' |
| 12" | 7' |
| 14" | 7' |
| 16" | 7' |
| 18" | 5' |
| 20" | 5' |
| 22" | 5' |
| 24" | 5' |
| 26" | 5' |
| 28" | 5' |
| 30" | 5' |
| 32" | 5' |
| 34" | 5' |
| 36" | 5' |

| VERTICAL | | | |
|---|---|---|---|
| TYPE | WALL SUPPORT (FT) | CURB SUPPORT (FT) | FLOOR SUPPORT (FT) |
| 2R & 2R HT (5'-16') | 20' | 24' | 24' |
| 2R (18") | 18' | 24' | 24' |
| 3R & 3Z (5'-24') | 10' | 24' | 24' |
| 3Z (26" -36") | 10' | 20' | 20' |

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

**REVISIONS**

| | DESCRIPTION | DATE: |
|---|---|---|
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Panda Express - Covington GA (D8518) - rev1
COVINGTON, GA, 30014

**DATE:** 2/4/2022

**DWG.#:** 5311718

**DRAWN BY:** AH-86

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 11

2

PANDA EXPRESS CHINESE KITCHEN


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
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91770
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| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
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DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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02.08.2022

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JOSE J. DIAZ-VELAZQUEZ
ST #040481

PANDA EXPRESS

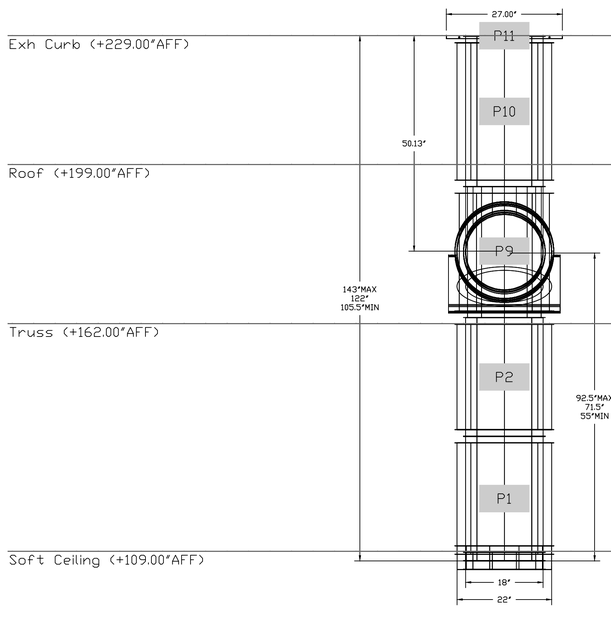
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-410

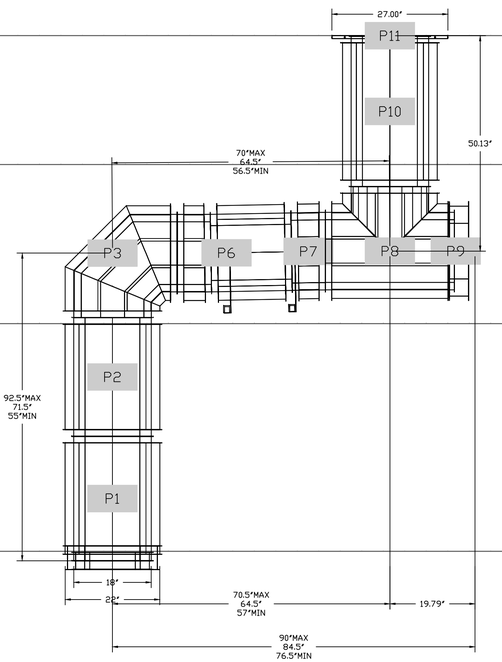
HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6

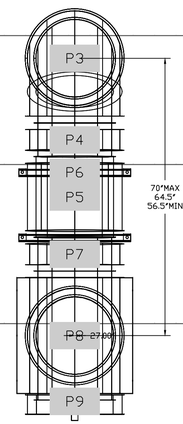
DUCTWORK #2 FRONT VIEW



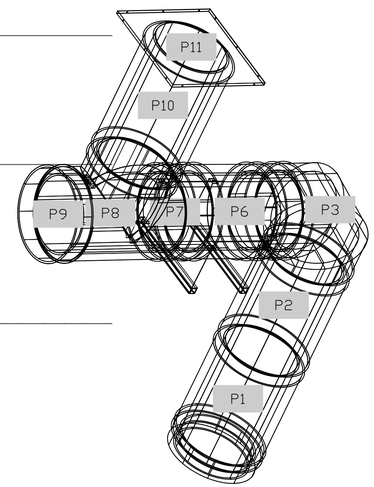

DUCTWORK #2 SIDE VIEW




DUCTWORK #2 TOP VIEW




DUCTWORK #2 SE VIEW




**REVISIONS**

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CAPTIVE-AIRE

Southern California Office
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Panda Express - Covington GA (D8518) - rev1
COVINGTON, GA, 30014

**DATE:** 2/4/2022

**DWG.#:** 5311718

**DRAWN BY:** AH-86

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 12

2

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
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91770
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| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

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| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: IRR

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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02.08.2022

GEORGIA REGISTERED No. PE040481 PROFESSIONAL ENGINEER JOSE J. DIAZ-VELAZQUEZ

JOSE J. DIAZ-VELAZQUEZ
ST #040481

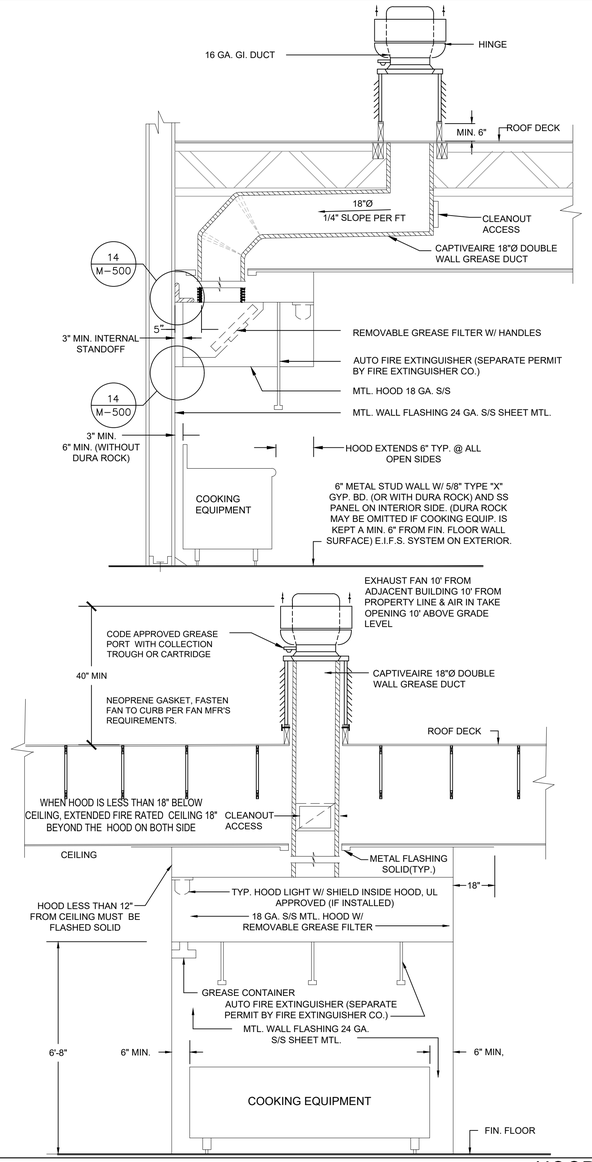
PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-411

HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R6




HOOD SECTIONS | 18

Scale: NO SCALE | M-500

PERFORMANCE TEST FOR LISTED MECHANICAL HOOD IS REQUIRED PER UMC 509.11

## GREASE HOOD SYSTEM CALCULATION

1. TYPE : CANOPY TYPE I, STAINLESS STEEL 18 GAUGE,
2. COOKING EQUIPMENT: (2) CHINESE RANGE, (2) DEEP FRYER, RICE COOKER
3. SIZE: 23'-6" x 4'-0" + 2'-0" MAKEUP AIR PLENUM
4. MIN. REQ'D CAPACITY CFM: (2) U.L. LISTED HOOD @ 3,450 CFM EACH
5. PROPOSED (2) EXHAUST FAN & (1) MAKE-UP AIR UNIT. EF1 & EF2 (3,450 CFM EACH); MAU1 (5,520 CFM, 80% OF EXHAUST)
6. EXHAUST DUCT SIZE:18"Ø
7. EXHAUST VELOCITY @ EXHAUST DUCT 1952
8. EXHAUST FAN (EF1 & EF2) AND MAKE-UP AIR UNIT (MAU1) SHALL BE ELECTRICALLY INTERLOCKED
9. FOR CODE COMPLIANCE SEE DETAIL
10. FOR FILTER INFORMATION SEE CAPTIVEAIRE DWG #M-400.
11. INTERLOCK RTU FANS TO OPERATE WITH KEF'S FOR MAKEUP AIR.

## INFORMATIONAL GUIDE FOR COMMERCIAL COOKING HOODS

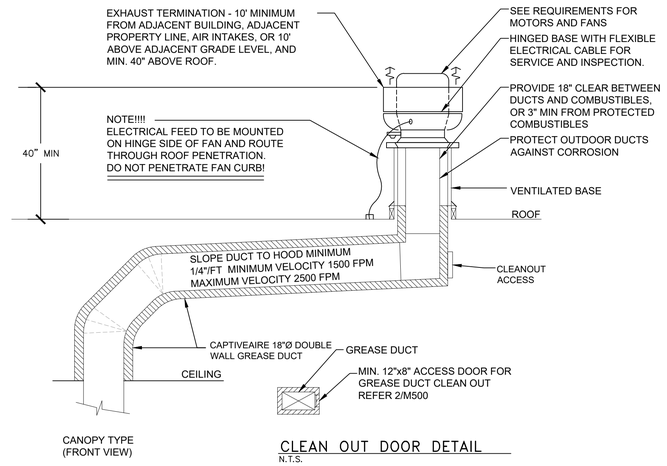
1. STAINLESS STEEL TO BE NO. 18 U.S. GAGE.
2. WHEN GUTTERS ARE PROVIDED THEY SHALL DRAIN TO A COLLECTING PAN WHICH IS READILY ACCESSIBLE FOR CLEANING
3. SEE TABLE 507.11 FOR MINIMUM DISTANCE BETWEEN LOWER EDGE OF GREASE FILTER AND THE COOKING OR HEATING SURFACE.
4. GREASE FILTERS SHALL BE OF STEEL CONSTRUCTION AND READILY ACCESSIBLE FOR CLEANING.
5. ALL JOINTS AND SEAMS SHALL BE GREASE TIGHT.
6. HOODS SHALL BE SECURELY FASTENED IN PLACE BY INCOMBUSTIBLE SUPPORTS.

## NOTES

1. PROVIDE ADEQUATE CLEANOUT OPENINGS FOR THOROUGH CLEANING OF DUCT SYSTEM.
2. PROVIDE ADEQUATE MAKE-UP AIR FOR PROPER OPERATION.
3. PROVIDE A SEPARATE DUCT SYSTEM FOR EACH HOOD.
4. THICKNESS OF DUCTS SHALL BE:

| DUCT AREA | U.S. GAGE STEEL |
|---|---|
| UP TO 4 SQ. FT. | 16 GA |
| OVER 4 SQ. FT. | 14 GA |

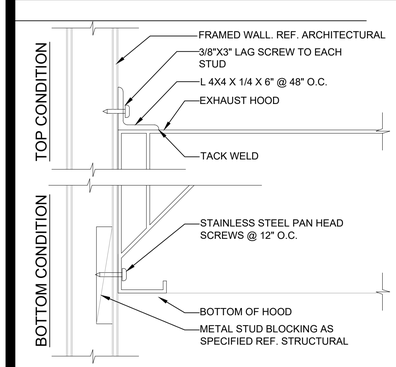
5. SUPPORT THE DUCTS AS REQUIRED. DO NOT PENETRATE DUCT WALLS WITH SCREWS, NAILS, ETC.
6. SECTIONS OF DUCT SHALL NOT CONTAIN GREASE POCKETS.




(FOR REFERENCE ONLY)

NOT USED | 2

M-500




HOOD CLIP AT WALL | 14

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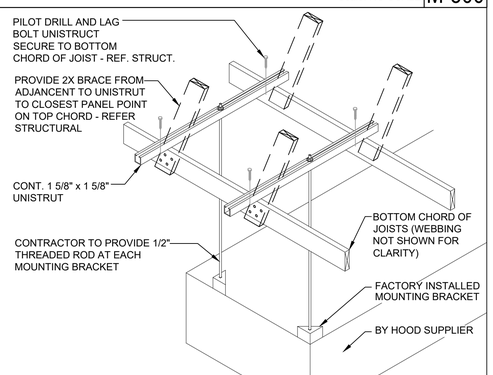


HOOD SUPPORT AT TRUSS | 13

Scale: NO SCALE | M-500

HOOD VENTILATION AND SECTION | 5

Scale: NO SCALE | M-500

NOT USED | 1

Scale: NO SCALE | M-500

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C&P PROJECT #: - 2210604

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ST #040481

PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-500

KITCHEN HOOD DETAILS

TRUE WARM & WELCOME 2300 R6

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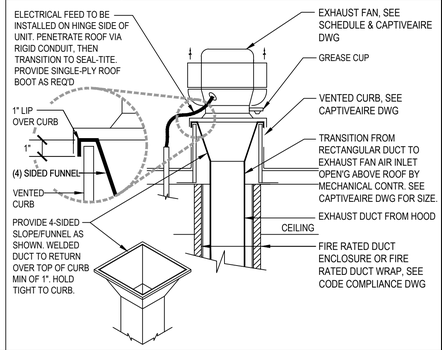


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| GREASE EXHAUST FAN DETAIL | 3 | | |
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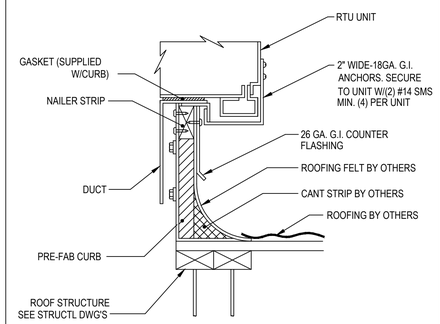


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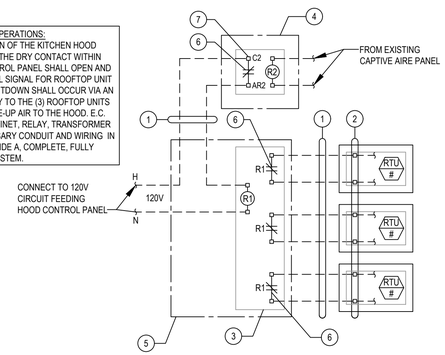
|---|---|---|---|
| RTU UNIT CURB DETAIL | 2 | | |
| Scale: NO SCALE | M-501 | | |

SEQUENCE OF OPERATIONS:
UPON ACTIVATION OF THE KITCHEN HOOD ANSUL SYSTEM, THE DRY CONTACT WITHIN THE HOOD CONTROL PANEL SHALL OPEN AND SEND A CONTROL SIGNAL FOR ROOFTOP UNIT SHUTDOWN. SHUTDOWN SHALL OCCUR VIA AN ISOLATION RELAY TO THE (3) ROOFTOP UNITS SUPPLYING MAKE-UP AIR TO THE HOOD. E.C. TO PROVIDE CABINET, RELAY, TRANSFORMER AND ALL NECESSARY CONDUIT AND WIRING IN ORDER TO PROVIDE A. COMPLETE, FULLY FUNCTIONING SYSTEM.




LEGEND

1. (2) #12 CONTROL WIRES IN 1/2" CONDUIT BY E.C.
2. M.C. TO CONNECT INTO REMOTE UNIT SHUTDOWN TERMINAL ON CARRIER ROOFTOP UNIT CONTROL BOARD AND REMOVE JUMPER. REFER TO MANUFACTURER FOR ADDITIONAL INFORMATION.
3. DPDT 120V RATED RELAY BY E.C. ENERGIZE FOR FAILSAFE OPERATION.
4. HOOD CONTROL PANEL AT KITCHEN.
5. 12X12X6 NEMA 1 CABINET MOUNTED ON WALL ADJACENT TO KITCHEN HOOD BY E.C.
6. N.O. DRY CONTACT (SHOWN ENERGIZED) THAT OPENS IN FIRE CONDITIONS.
7. 120V RATED DRY CONTACT WITHIN CAPTIVE AIRE PANEL.

| | | | |
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| - | 17 | | |
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|---|---|---|---|
| RTU CONTROL WIRING DIAGRAM | 5 | | |
| Scale: NO SCALE | M-501 | | |

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PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# M-501

MECHANICAL DETAILS

TRUE WARM & WELCOME 2300 R6

# ELECTRICAL SPECIFICATIONS

**PART 1 - GENERAL**

1.01 COORDINATION OF TRADES: SCHEDULE AND COORDINATE WORK WITH THAT OF OTHER DIVISIONS AND SECTIONS.
1.02 GUARANTEE IN WRITING THE ELECTRICAL INSTALLATION, AND ALL WORK UNDER THIS SECTION, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AGAINST ALL EVIDENCE OF IMPERFECT WORKMANSHIP OR FAILURE OR MALFUNCTION OF MATERIALS.

**PART 2 - PRODUCTS**

2.01 MATERIALS AND EQUIPMENT
A. MATERIAL FURNISHED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED, SHALL BE NEW, FREE FROM DEFECTS AND SHALL CONFORM WITH THE STANDARDS OF UL.
B. VOLTAGE, AMPERE, AND OTHER RATINGS OF EQUIPMENT SHALL BE SUITABLE FOR USE INTENDED. DISCONNECT SWITCHES SHALL BE PROPERLY HORSEPOWER RATED AND SUITABLE FOR VOLTAGE AND AMPERE RATING OF LOAD.
C. THE DRAWINGS GENERALLY INDICATES THE RACEWAY SIZE, THE NUMBER, SIZE, AND INSULATION TYPE OF CONDUCTORS TO BE PROVIDED AND INSTALLED. WHERE THESE ITEMS DO NOT MEET MINIMUM APPLICABLE CODES, FOR EQUIPMENT BEING SERVED, COMPLY AS REQUIRED AT NO ADDITIONAL COST.
2.02 RACEWAYS
A. GALVANIZED RIGID CONDUIT (GRC); INCLUDING ELBOWS AND COUPLINGS.
B. INTERMEDIATE METAL CONDUIT (IMC); INCLUDING ELBOWS AND COUPLINGS.
C. ELECTRIC METALLIC TUBING (EMT) WITH FITTINGS OF PRESSED STEEL OR MALLEABLE IRON, COMPRESSION TYPE (IN WET AREAS ONLY) WITH INSULATED THROATS.
D. RIGID NON-METALLIC CONDUIT: (PVC) U.L. LABELED SCHEDULE 40 P.V.C.
2.03 DEVICE AND JUNCTION BOXES: INCLUDE PLASTER RINGS, COVERS, AND KO SEALS AS REQUIRED.
2.04 WIRE AND CABLE: UNLESS OTHERWISE NOTED, WIRE AND CABLE SHALL BE SOFT DRAWN, ANNEALED COPPER. WIRE SIZES NO. 8 AND LARGER AND CONDUCTORS SERVING MOTORS AND SUBJECT TO VIBRATIONS SHALL BE STRANDED CABLE. INSULATION TO BE THWN/THHN, JACKETED 90C INSULATED WIRE. PROVIDE WIRE COLOR IDENTIFICATION: NEUTRAL WIRE - WHITE, LIVE WIRE - BLACK, RED, BLUE ON 120/208 VOLT SYSTEM; NEUTRAL WIRE - GREY, LIVE WIRE - BROWN, ORANGE YELLOW ON 277/480 VOLT SYSTEM; GROUND - GREEN.
2.05 ADDED PANELS TO BE PANELBOARDS - LOAD CENTERS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED.
2.06 **SERVICE ENTRANCE AND DISTRIBUTION GEAR BY G.E., SQUARE "D" OR CUTLER HAMMER OR SIEMENS ONLY. INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS ARE NOT ALLOWED.**
2.07 SWITCHBOARDS: COPPER BUSSING WITH FULL CAPACITY NEUTRAL.
2.11 120/208 VOLT AND 277/480 VOLT PANELBOARDS: 3 PHASE, 4 WIRE, COPPER BUS, COMPOSED OF AN ASSEMBLY OF BOLT-IN-PLACE MOLDED CASE CIRCUIT BREAKERS WITH THERMAL AND MAGNETIC TRIP AND TRIP FREE POSITION SEPARATE FROM EITHER ON OR OFF POSITIONS.
2.13 SAFETY SWITCHES: FUSED, HEAVY DUTY, HORSEPOWER RATED.
2.14 STARTERS, CONTACTORS AND CONTROL DEVICES: PROVIDE AS SHOWN AND AS REQUIRED BY CODE. FURNISH COMPLETE WITH PILOT LIGHTS, AUXILIARY CONTACTS, PUSH BUTTONS, HAND-OFF-ON SWITCHES, CONTROL DEVICES, AND OVERLOAD RELAYS. THERMAL OVERLOADS TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. AMBIENTLY COMPENSATE ALL HEATERS EXPOSED TO HIGH TEMPERATURE OR INSTALLED OUTSIDE AS NEEDED.
2.16 NAMEPLATES: PROVIDE BLACK LAMICOID NAMEPLATES WITH 3/16" HIGH WHITE ENGRAVED LETTERS ON PANELS, SWITCHBOARDS, MAINS AND SUBMAINS, DISTRIBUTION EQUIPMENT, REMOTE SAFETY SWITCHES, CIRCUIT BREAKERS, TIME SWITCHES, CONTACTORS, AND STARTERS.
2.17 WIRING DEVICES
A. HUBBELL OR COMPARABLE LEVITON OR BRYANT: WHITE AND GREY IN COLOR - AS NOTED ON DRAWINGS OR PER ARCHITECT. 15 AMP DEVICES ALLOWED ONLY WHEN SPECIFICALLY DENOTED ON ELECTRICAL CONSTRUCTION DRAWINGS.
B. TOGGLE SWITCHES: SINGLE POLE - HUBBELL 1221- 20A, 120/277V, THREE WAY - HUBBELL 1223- 20A, 120/277V, FOUR WAY - HUBBELL 1224- 20A, 120/277V.
C. RECEPTACLES: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, HUBBELL NO. 5262 OR COMPARABLE.
D. GROUND FAULT INTERRUPTER TYPE RECEPTACLE: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, 5 mA GROUND TRIP, FEED THROUGH CONSTRUCTION.
2.18 DEVICE PLATES: LEXAN (STA-KLEEN), SMOOTH FINISH IN STAINLESS STEEL - AS NOTED ON PLANS. MULTI-GANG OUTLET PLATES SHALL BE USED FOR MULTI-GANG BOXES.
2.19 NOT USED.
2.20 LIGHTING FIXTURES
A. ALL INTERIOR / BUILDING MOUNTED LIGHTING PROVIDED BY PX AND INSTALLED BY E.C.
B. ALL EXTERIOR SITE LIGHTING IS PROVIDED AND INSTALLED BY E.C.

**PART 3 - EXECUTION**

3.01 GENERAL INSTALLATION
A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN A NEAT, APPROVED, FINISHED, AND SAFE MANNER.
B. INSPECT AND MAKE TIGHT ALL CONNECTIONS FOR ALL EQUIPMENT, INCLUDING FACTORY CONNECTIONS. TORQUE ALL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
C. LIGHTING FIXTURES INSTALLED AND USED FOR LIGHTING DURING CONSTRUCTION SHALL BE RELAMPED WITH NEW LAMPS JUST PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
D. INSTALL SEISMIC RESTRAINT DEVICES FOR ALL CEILING MOUNTED EQUIPMENT, I.E. LAY-IN FIXTURES. PROVIDE GRID CLIPS AND #12 SLACK WIRES FROM FIXTURE CORNERS TO STRUCTURE.
3.02 RACEWAYS
A. INSTALL COMPLETE RACEWAY SYSTEMS FOR ALL ELECTRICAL CONDUCTORS INCLUDING TELEPHONE, SIGNAL, CONTROL, AND OTHER SYSTEMS.
B. UNLESS OTHERWISE NOTED, INSTALL ALL RACEWAYS CONCEALED. WHERE IT IS NOT FEASIBLE TO CONCEAL RACEWAYS, INSTALL AS DIRECTED BY ARCHITECT.
C. INSTALL EXPOSED RACEWAYS TO RUN PARALLEL OR AT RIGHT ANGLES TO STRUCTURAL BUILDING LINES WITH NEAT BENDS AND NEATLY OFFSET INTO TERMINATIONS.
D. IN EMPTY RACEWAY PROVIDE AND INSTALL A NO. 14 NYLON DRAG LINE.
E. INSTALL RACEWAYS WITH APPROVED HEAVY DUTY SUPPORTS, STRAPS, HANGERS, CONNECTORS, AND COUPLINGS AS REQUIRED TO MAINTAIN AN APPROVED INSTALLATION.
F. NOT USED.
H. MINIMUM CONDUIT SIZE TO BE 3/4" U.N.O.
3.03 GALVANIZED RIGID CONDUIT (GRC): ALL RACEWAYS SHALL BE GRC EXCEPT AS NOTED. CONDUIT, ELBOWS, AND STANDARD COUPLINGS SHALL BE HOT DIPPED GALVANIZED RIGID STEEL. IF PARTITIONS OR WALLS ARE SOLID CONCRETE OR ARE GROUTED SOLID WITH CONCRETE OR MORTAR, RIGID STEEL CONDUIT SHALL BE USED.
3.04 INTERMEDIATE METAL CONDUIT (IMC): IMC RACEWAY AND APPROVED FITTINGS WHERE PERMITTED BY APPLICABLE CODES AND REGULATIONS MAY BE USED IN LIEU OF RIGID STEEL CONDUIT, WHERE INSTALLED ABOVE FINISH GRADE AND ABOVE CONCRETE SLABS ON GRADE.
3.05 ELECTRIC METALLIC TUBING (EMT): EMT MAY BE USED WHERE CONCEALED IN AREAS ABOVE CEILINGS, FURRED SPACES, PARTITIONS OR WALLS. ALSO MAY BE EXPOSED, WHEN NOT IN HAZARDOUS AREAS, AREAS SUBJECT TO PHYSICAL DAMAGE, OR WHEN DIRECTLY EXPOSED TO RAIN OR WASH-DOWN.
3.06 FLEXIBLE METAL CONDUIT (FLEX): USE FLEXIBLE CONDUITS FOR CONNECTIONS TO MOTORS, WHERE SUBJECT TO MOVEMENT OR VIBRATION, AND LIQUID TIGHT WHERE EXPOSED TO MOISTURE OR OIL.
3.07 RIGID NONMETALLIC CONDUIT PVC SCHEDULE 40 MAY BE INSTALLED FOR DIRECT BURIAL RACEWAYS WHERE INSTALLED WITH MINIMUM COVERAGE PER NEC TABLE 300-5. ALL UNDERGROUND BENDS SHALL BE GRC.
3.08 OUTLET, PULL AND JUNCTION BOXES
A. UNLESS OTHERWISE SHOWN OR AS DIRECTED PRIOR TO INSTALLATION, OUTLET BOXES SHALL GENERALLY BE PLACED AT THE FOLLOWING HEIGHTS, CENTER OF BOX TO FINISHED FLOOR LEVEL.
B. WALL SWITCHES: 44".
C. CONVENIENCE RECEPTACLES: 18" (OR 4" ABOVE COUNTERS) AND/OR AS NOTED. (SIMILAR TYPE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT IN EACH AREA). GROUNDING PIN AT BOTTOM.
D. OTHER OUTLET TYPES: REFER TO ELECTRICAL SYMBOL LIST ON THIS SHEET.
3.09 CONDUCTORS (COPPER ONLY)
A. USE SPECIFIED COLOR SCHEDULE FOR ALL WIRING. WHERE LARGE CONDUCTORS ARE NOT AVAILABLE IN COLORS, IDENTIFY WITH PERMANENT COLORED TAPE AT ALL TERMINATIONS, JUNCTION BOXES, ETC. COLOR CODING PER NEC.
B. MAKE TAPS, JOINTS, SPLICES, AND OTHER CONNECTIONS WITH FIXTURE CONNECTORS.
C. DO NOT INSTALL WIRING OR PULL WIRES, IN RACEWAYS UNTIL RACEWAY SYSTEM IS COMPLETE, CLEAN, DRY, AND FREE OF ALL FOREIGN MATERIALS. LUBRICATE AS REQUIRED.
D. MINIMUM CONDUCTOR SIZE TO BE #12 CU. THWN.
3.10 LIGHTING FIXTURES
A. LEAVE FIXTURES AND LAMPS CLEAN OF ALL DIRT, DUST, GREASE SPOTS AND DEBRIS. ALL GLASS, PLASTIC AND OTHER COMPONENTS SHALL BE UNSCRATCHED AND UNBROKEN.
B. FIT AND ADJUST ALL FIXTURES. WHERE STRUCTURAL CONDITIONS, PARTITIONS, FURNITURE, SHELVING, AND AIR CONDITIONING DIFFUSERS INTERFERE WITH THE LIGHTING FIXTURES AT LOCATIONS SHOWN, NOTIFY ARCHITECT IN WRITING AND RELOCATE AT NO ADDITIONAL COST AS DIRECTED.
C. FIXTURES WITH FINISH TRIM OR LENS FRAMES SHALL BE GASKETED AND BAFFLED TO PREVENT LIGHT LEAKS. INSTALL SO THAT NO LIGHT LEAKS EXIST.
D. FIXTURES MOUNTED DIRECTLY ON COMBUSTIBLE LOW-DENSITY CEILINGS SHALL MEET UL APPROVAL FOR THIS CONDITION AND BE PLAINLY MARKED AS SUCH.
3.11 GROUNDING
A. GROUNDING FOR DISTRIBUTION EQUIPMENT, EQUIPMENT AND MATERIALS WITH ELECTRICAL CONNECTIONS, ELECTRIC MOTOR FRAMES, ELECTRIC RACEWAY AND RELATED EQUIPMENT, SHALL BE EFFECTIVELY AND PERMANENTLY GROUNDED IN ACCORDANCE WITH PERTINENT SECTIONS OF ARTICLE 250 OF NEC. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS.
B. ALL RACEWAYS SHALL HAVE AN APPROVED SIZED, INSULATED, STRANDED COPPER GROUNDING CONDUCTOR.
C. WHERE RACEWAYS CONNECT TO A CONCENTRIC K.O. PROVIDE GROUNDING LOCKNUT OR BUSHING AND BOND WIRE EXTENDED AND BONDED TO ENCLOSURE, SIZE AS PER NEC.
3.12 DITCHING, EXCAVATION AND BACKFILLING: PERFORM ALL DITCHING, EXCAVATION AND BACKFILLING REQUIRED FOR THE ELECTRICAL WORK. PROVIDE AND MAINTAIN ALL SHEATHING, BRACING AND PROPER GUARDS FOR PREVENTION OF ACCIDENTS.
3.13 UTILITY COMPANY SERVICE CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND COMMUNICATIONS UTILITIES TO THE PROJECT.
3.14 FINAL INSPECTION: TEST SYSTEM FOR SHORTS AND OPENS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. AFTER SYSTEM IS CONNECTED COMPLETELY, TEST FOR INSULATION RESISTANCE. RESISTANCE LOWER THAN OUTLINED IN THE NEC, MANUFACTURER'S DATA, ETC., SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE UNDER THIS CONTRACT SHOWING SUBSTANDARD READINGS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT.
3.15 LABEL ALL RECEPTACLES WITH 3/16" HIGH BLACK LETTERING ON CLEAR TAPE. IF THE RECEPTACLE IS BLACK OR BROWN, PROVIDE WHITE LETTERING ON CLEAR TAPE. LABEL TO BE NEATLY CENTERED IN THE TOP SPACE OF THE COVERPLATE, AND SHALL INDICATE THE SERVING PANEL AND CIRCUIT ORIGIN.

| ELECTRICAL SPECIFICATIONS | 3 |
|---|---|
| NOT TO SCALE | E-000 |

# GENERAL NOTES

1. THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY.
2. BRANCH CIRCUITING AND WIRE COUNT MAY NOT BE INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY AUTHORITY. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (AHJ).
3. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES / AMENDMENTS. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
4. ALL ELECTRICAL EQUIPMENT SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSES TO SUBSTITUTE SPECIFIC EQUIPMENT SPECIFIED, A REQUEST FOR CONSIDERATION SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTIONS SHALL BE IMPLEMENTED WITHOUT THE APPROVAL OF THE ENGINEER OR RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE, FOR ANY CHANGE RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, OR SUBSTITUTIONS WHICH AFFECT THE WORK OF OTHER CONTRACTORS.
5. THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE EXACT LOCATION OF EQUIPMENT OR OUTLETS. COORDINATE WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND EQUIPMENT.
7. ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEM. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRIMS AND HARDWARE TO ACCOMMODATE CEILING TYPE.
9. ALL RECESSED LIGHTING FIXTURES, PANELBOARDS, SWITCHES, ETC., MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPS, SPACES ETC.
10. PORTIONS OF THE CEILING SYSTEMS MAY BE INACCESSIBLE, THEREFORE, THE CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC., WHICH SHALL BE READILY ACCESSIBLE. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC. SHALL BE ACCESSIBLE FROM FIXTURE OPENING.
11. ALL WIRING AND ELECTRICAL EQUIPMENT SERVING MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH MECHANICAL AND PLUMBING SPECIFICATIONS AND ASSOCIATED DRAWINGS. CONTRACTOR SHALL OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, FITTINGS, ETC., AS INDICATED ON CONSTRUCTION DOCUMENTS.
12. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.
13. THE CONTRACTOR SHALL VERIFY THE LOAD AND INPUT VOLTAGE OF ALL PROVIDED EQUIPMENT TO MATCH LOAD INPUT OF ALL EQUIPMENT BEING SUBSTITUTED.
14. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH I.B.C. SEC. 711.3.2. OPENINGS IN FIRE RATED WALLS MUST BE FIRE STOPPED.
15. PROVIDE AN ADDITIONAL JUNCTION BOX EXTENSION RING (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
16. CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTOR AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC ARTICLE 310 AND ELSEWHERE IN CODE.
17. ALL LIGHTING FIXTURES PROVIDED BY PANDA EXPRESS INSTALLED BY GC UNLESS NOTED OTHERWISE.
18. DO ALL DRILLING, CUTTING, AND/OR CHANNELING AS REQUIRED FOR ELECTRICAL WORK INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTING TO MATCH IN COLOR TO ADJACENT SURFACES IN FINISHED AREAS. (PROTECT UL LISTINGS LABELS FROM PAINT).
19. EMERGENCY LIGHTING SHALL BE PROVIDED PER U.B.C. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY AUTHORITIES HAVING JURISDICTIONS.
20. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

| | |
|---|---|
| FIXED EQUIPMENT ON GRADE: OPERATING WEIGHT | 33% OF |
| FIXED EQUIPMENT ON STRUCTURE: OPERATING WEIGHT | 50% OF |
| EMERGENCY POWER AND COMMUNICATION & EQUIPMENT ON GRADE: OPERATING WEIGHT | 50% OF |
| EMERGENCY POWER AND COMMUNICATION ON STRUCTURE: OPERATING WEIGHT | 75% OF |

FOR FLEXIBLE MOUNTED EQUIPMENT DOUBLE THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE - USE 1/3 HORIZONTAL FORCE. CONDUIT, BUSDUCT, CABLE TRAY, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUILDELINES", PUBLISHED BY SMACNA AND PPIC.

| GENERAL NOTES | 2 |
|---|---|
| NOT TO SCALE | E-000 |

NOTICE
THESE DRAWINGS ARE SUBJECT TO APPROVAL BY THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AUTHORITIES HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR INDICATES THAT HE OR SHE HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTED FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.

MC CABLE SHALL NOT BE USED. PREWIRED MC CABLE WHIPS FROM LIGHTING FIXTURES ARE ACCEPTABLE WHEN SUPPLIED WITH THE FIXTURE AND NO LONGER THAN 72".

ELECTRICIAN TO PROVIDE STAINLESS STEEL COVER PLATES FOR ALL LOW VOLTAGE OUTLETS.

IF PROVIDED UNDER SLAB ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW FINISHED GRADE.

# ELECTRICAL SYMBOLS LIST

NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS.

## POWER DISTRIBUTION

- $S_M$ SINGLE-POLE SWITCH, MANUAL MOTOR STARTER
- J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.)
- DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS
- COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY ELECTRICAL CONTRACTOR.
- BRANCH CIRCUITRY CONCEALED IN WALL OR CEILING WITH ADDITIONAL #12 INSULATED GND. U.N.O. HACHURES INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS. 'X' INDICATES ADDITIONAL INSULATED, ISOLATED GROUND CONDUCTORS.
- BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS
- INDICATES EXTERIOR UNDERGROUND WIRE RUNS.

## LIGHTING & LIGHTING CONTROLS

- LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHT FIXTURE SCHEDULE.
- SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A.
- LEVITON Renoir II WALLBOX DIMMER - SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 120V, BALLAST 0-10V
- OCCUPANCY SENSOR SWITCH WITH OFF CONTROL, AND ADJUSTABLE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. WATTSTOPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR OFFICES/CONF/ETC.
- LEVITON PROVOLT 05C20-MDW DIMMING DAYLIGHT SENSOR FOR SIDELIT DAYLIGHTING ZONES. LOCATE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. ALL CONTROLS SHALL COMPLY WITH LOCAL ENERGY CODE REQUIREMENTS. PROVIDE LOCAL MANUAL SWITCH AS SHOWN IN THE LIGHTING PLAN FOR ON / OFF CONTROL

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| A | AMPERES | M.C.B. | MAIN CIRCUIT BREAKER |
| AL | ALUMINUM | M.L.O. | MAIN LUGS ONLY |
| A.F.F. | ABOVE FINISHED FLOOR | MTD. | MOUNTED |
| A.F.G. | ABOVE FINISHED GRADE | P | POLE |
| C. | CONDUIT | SW. | SWITCH |
| C/B | CIRCUIT BREAKER | T.M.B. | TELEPHONE MOUNTING BOARD |
| CU. | COPPER | TYP. | TYPICAL |
| DISC. | DISCONNECT | U.N.O. | UNLESS NOTED OTHERWISE |
| F. | FUSE | V. | VOLTS |
| GFI | GROUND FAULT CURRENT INTERRUPTER | W. | WIRE |
| | | W.P. | WEATHERPROOF |
| GND. | GROUND | XFMR | TRANSFORMER |
| H.P. | HORSE POWER | Ø | PHASE |
| k | 1000 | | |
| E.C. | ELECTRICAL CONTRACTOR | | |
| G.C. | GENERAL CONTRACTOR | | |

## RECEPTACLES & COMMUNICATIONS OUTLETS

- DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
- SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
- ISOLATED GROUND SIMPLEX CONVENIENCE OUTLET (ORANGE), 20A.,125V., MTD @ +18" A.F.F.
- DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
- GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD @ 18" A.F.F. U.N.O.
- GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
- TELEPHONE OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT W/ PULL WIRE TO MANAGER'S STATION. 'W' SUBSCRIPT INDICATES WALL PHONE AT 54" AFF.
- DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- T.V. SYSTEM DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN SHOWN ADJACENT RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. REFER TO RECEPTACLE FOR MOUNTING HEIGHT.
- SPECIAL PURPOSE RECEPTACLE MTD. @ 18" A.F.F. U.N.O., AMPERAGE AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQ'D.
- ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), 20A.,125V., MTD @ +18" A.F.F.
- DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER
- ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) 20A.,125V.
- (S) SPEAKER

## FIRE ALARM

- MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. ALIGN WITH LIGHT SWITCH IF APPLICABLE.
- XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
- COMBINATION XENON STROBE AND HORN/CHIME UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). UNIT MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
- FACP FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
- FAAP FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
- PHOTO ELECTRIC TYPE SMOKE DETECTOR.
- DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR.
- RATE OF RISE HEAT DETECTOR.

| ELECTRICAL SYMBOLS | 1 |
|---|---|
| NOT TO SCALE | E-000 |

PANDA EXPRESS CHINESE KITCHEN


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ELECTRICAL SYMBOLS
SPECIFICATIONS, NOTES

TRUE WARM & WELCOME 2300 R6

# LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

01-15-19

| ITEM | SYMBOL | DESCRIPTION | QTY. | MFR. & CAT. NO. | REMARK |
|---|---|---|---|---|---|
| **INTERIOR LIGHTING ITEM** | | | | | |
| L1 | L1 | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | 10 | LSI<br>FIXTURE: SFP24-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS,<br>FURNISHED BY OWNER INSTALLED BY GC |
| L1B | L1B | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 2', 120V BAKED-ON WHITE ENAMEL FINISH. | 1 | LSI<br>FIXTURE: ESFP22-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS,<br>FURNISHED BY OWNER INSTALLED BY GC |
| L1C | L1C | T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 1' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | 2 | LSI<br>FIXTURE: SFP14-LED-FS-UNV-DIM | KITCHEN CEILING LIGHTS,<br>FURNISHED BY OWNER INSTALLED BY GC |
| L1EM | L1EM | T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH. | 4 | LSI<br>FIXTURE: SFP24-LED-FS-UNV-DIM-EM | EMERGENCY KITCHEN CEILING LIGHTS<br>FURNISHED BY OWNER INSTALLED BY GC |
| L4HO | L4HO | UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER | 4 | EXITRONIX GVEX-U-BP-WB-BL-R6 | EXIT SIGN<br>FURNISHED BY OWNER, INSTALLED BY GC |
| L6A | L6A | HOOD LIGHT | 12 | FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER | LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR.<br>ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL |
| L6B | L6B | WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48" | 3 | KASON<br>FIXTURE: # 1810LX4000 | FURNISHED BY WIC VENDOR, G.R.E. , INSTALLED BY GC |
| L19 | L19 | DOWN LIGHT, RECESSED IN CEILING | 45 | ELITE HOUSING: LD6IC-AT<br>LED MODULE: ELITE LED LIGHTING<br>RL607-750L-DIMTR-120-30K-SN-SN-90+ | FURNISHED BY OWNER, INSTALLED BY GC |
| L19EM | L19EM | EMERGENCY DOWN LIGHT, RECESSED IN CEILING | 6 | ELITE HOUSING: LD6IC-AT<br>LED MODULE: ELITE LED LIGHTING<br>RL607-750L-DIMTR-120-30K-SN-SN-90+ | EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON<br>INVERTER UNIT - ISOLITE, IMI-12-LC-V1<br>FURNISHED BY OWNER INSTALLED BY GC |
| L20 | L20W | 3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING.<br>"W" SHALL DESIGNATE WHITE TRIM USED FOR MENU BD. SOFFIT | 10 | LIGHTOLIER: LYTECASTER-378WHX<br>FRAME-IN KIT: 302MRSPX<br>BULB: MR16 - GE - PRECISE IR<br>37 WATT 40 ° BEAM | FURNISHED BY OWNER, INSTALLED BY GC |
| L20B | L20B | 3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING.<br>"B" SHALL DESIGNATE BLACK TRIM USED FOR DINING ROOM CEILING GRID | 5 | LIGHTOLIER: LYTECASTER-378WHX<br>FRAME-IN KIT: 302MRSPX<br>BULB: MR16 - GE - PRECISE IR<br>37 WATT 40 ° BEAM | FURNISHED BY OWNER, INSTALLED BY GC |
| L30 | L30 | WHITE LED AT SERVICE COUNTER SOFFIT & DINING ROOM PARTIAL HEIGHT WALL | 50 L.F. | LUXEM BRIGHT<br>FIXTURE: BLAZE LED | FURNISHED BY OWNER, INSTALLED BY GC |
| L32 | L32 | WHITE LED AT MURAL LIGHT COVE | 60 L.F. | NOVA FLEX - PRO SERIES<br>FIXTURE: BENDABLE 3916 | FURNISHED BY OWNER, INSTALLED BY GC |
| L45 | L45 | 12" DIA. DECORATIVE MORILL PENDANT<br>LF INCANDESCENT | 3 | LBL LIGHTING, MODEL # 6227801-839<br>BULB:<br>LED EDISON LAMP.1173467 | FURNISHED BY OWNER, INSTALLED BY GC |
| L100 | L100 | MICRO INVERTER | 1 | ISOLITE #IMI 125 | FURNISHED BY OWNER, INSTALLED BY GC |
| L40C-R | L40C-R | 17.3" DIA. RED CUPOLA PENDANT | 6 | HI-LITE, MODEL #H-VLPDM3-RDMT | FURNISHED BY OWNER, INSTALLED BY GC |
| | S | SPEAKER | | - | FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR |

NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE

**EXTERIOR LIGHTING**

| | | | | |
|---|---|---|---|---|
| L40 | L40 | LINEAR LIGHT AT EXTERIOR STORAGE ROOM | 1 | COOPER<br>MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U | FURNISHED BY OWNER, INSTALLED BY GC |
| L85 | L85 | WALL MOUNTED OVER SERVICE DOOR FIXTURE | 1 | HOWARD: VL305<br>30W LED, BRONZE | OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT<br>FURNISHED BY OWNER, INSTALLED BY GC |
| L86 | L86 | NAVILITE EMERGENCY LIGHT | 2 | EXITRONIX<br>MLED1-G-WP | OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC |
| L86 AEM | L86 AEM | EXTERIOR RECESS EMERGENCY LIGHT | 1 | ELITE HOUSING: LD6IC-AT<br>LED MODULE: ELITE LED LIGHTING<br>WET LOCATION:<br>RL607-14W-120-FL-30K-SN-SN -WET LOCATION | EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON<br>INVERTER UNIT - ISOLITE, IMI-12-LC-V1<br>FURNISHED BY OWNER INSTALLED BY GC |
| L90 | L90 | DECORATIVE LED WALL SCONCE | 2 | HINKLEY LIGHTING,<br>ATLANTIS; BRONZE; 1649BZ-LED | AT PORTAL OF ENTRY DOOR. REFER ELEVATIONS FOR HEIGHT<br>FURNISHED BY OWNER, INSTALLED BY GC |
| L92 | L92 | WALL MOUNTED OVER SERVICE DOOR FIXTURE | 1 | HINKLEY LIGHTING, SILO; BRONZE;<br>13594AZ-LL; LED | OVER DRIVE THRU AREA SERVICE DOOR FURNISHED BY OWNER,<br>INSTALLED BY GC |
| L97 | L97 | LED MOTION SECURITY FLOODLIGHT | 2 | LITHONIA LIGHTING<br>OLF 2RH 40K 120V MO BZ | INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142"<br>FURNISHED BY OWNER, INSTALLED BY GC |
| L91 | L91 | DECORATIVE LED WALL SCONCE | 4 | HINKLEY LIGHTING,<br>SILO; BRONZE; 13594AZ-LL; LED | ALONG REAR EIFS BAND<br>FURNISHED BY OWNER, INSTALLED BY GC |



# EQUIPMENT SCHEDULE

01-15-19

**PLUMBING**
FS INDIRECT CONNECTION TO FLOOR SINK
D DIRECT CONNECTION
RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)

**ELECTRICAL**
D DIRECT CONNECTION
C CONVENIENT OUTLET
FSO FLOOR STUB OUT
DC DROPPED CORD

**DESCRIPTION**
O OWNER(PANDA EXPRESS, INC.)
GC GENERAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
KEC KITCHEN EQUIPMENT COMPANY
S SERVING AREA
K KITCHEN
(E) EXISTING

| SUPPLY BY | GAS | | | WASTE | | COLD WATER | | HOT WATER | | CONNECTION | | LOAD | PHASE | H.P. | VOLTS | REMARKS | DIMENSIONS | MANUFACTURE | MODEL # | EQUIPMENT | NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K BTU | R.I.H. | SIZE | TYPE | SIZE | R.I.H. | SIZE | R.I.H. | SIZE | R.I.H. | TYPE | WATT | | | | | W x D x H (# x H) | | | | |
| **SERVING AREA EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | | | SEE DETAIL | SEE PLAN | KEC | CUSTOM | HOT WELLS COUNTER, SERVICE | 1B |
| O | | | | | | | | | | | | | | | | SEE DETAIL | SEE PLAN | KEC | CUSTOM | SNEEZE GUARD | 1S2 |
| O | | | | | | | | | | | D | 475W | 1 | | 120 | 3 HEATING ELEMENTS | 42.375" X 4.25" X 2.375" | GENERAL | | 43" RADIANT TOP HEATER | 1S2b1 |
| O | | | | | | | | | | | D | 625W | 1 | | 120 | 4 HEATING ELEMENTS | 55.375" X 4.25" X 2.625" | GENERAL | | 56" RADIANT TOP HEATER (2) | 1S2b2 |
| O | | | | | | | | | | | D | 475W | 1 | | 120 | 3 HEATING ELEMENTS | 42 1/8"x4.25"x2 5/8" | GENERAL | | 43" RADIANT TOP HEATER (2) | 1S2-S1d |
| O | | | | | | | | | | REF. ELEC. | D | 15A | 1 | | 120 | SEE DETAIL | SEE PLAN | KEC | CUSTOM | CASHIER & BEVERAGE COUNTER | 2Q |
| O | | | | | | | | | | | C | 650W | 1 | | 120 | INDUCTION WARMER | 15 3/4" DIA | I/O CONTROLS CORP. | ABC-065-14 | INDUCTION WELL - 17QT | 3F |
| O | | | | | | | | | | | C | 650W | 1 | | 120 | INDUCTION WARMER | 12 1/8" DIA | I/O CONTROLS CORP. | ABC-065-10 | INDUCTION WELL - 11QT | 3G |
| O | | | | FS | 3/4" | | | | | | C | 9.3A | 1 | | 120 | W/LID DISPENSER | 30"x30"x35" | CORNELIUS | IDC-255 | BEVERAGE DISPENSER | 4AB |
| O | | | | | | | | | | 66" | C | 7.2A | 1 | | 120 | ON S/S SHELF | 15"x11"X16" | WELBILT | 16-2172 | BOOSTER | 4B |
| O | | | | | | | | | | | | | | | | | 40"x18" | WELBILT | 15-2903-IP | SODA RACK | 4C |
| O | | | | | | | | | | | | | | | | | #22" | ESPRIGAS | PER MFG | CO2 TANK | 4D |
| O | | | | | | | | | | | | | | | | | | CO2Meter.com | RAD-0102-6 | CO2 MONITOR & DISPLAY | 4D-S1 |
| O | | | | | | 96" | 1/2" | | | | | | | | | WALL MOUNT | 8"x2 3/8"x23 5/8" | 5M WATER FILTRATION | BEV190-56164-01 | WATER FILTER | 4F |
| O | | | | FS | 1/2" | | | | | | | | | | | | 34"x17"x6 1/2" | KEC | CUSTOM | 36" COLD PAN | 5C |
| O | | | | | | | | | | | | | | | | | SEE PLAN | KEC | CUSTOM | S/S COUNTER WITH SINK | 6B |
| O | | | | | | | | | | 24" | | | | | | | SEE PLAN | KEC | CUSTOM | HOT WELLS COUNTER - DRIVE THRU | 6F |
| O | | | | | | | | | | 24" | | | | | | | SEE PLAN | KEC | CUSTOM | CASHIER & BEVERAGE COUNTER- DT | 9B |
| O | | | | | | | | | | 24" | C | 14.8A | 1 | | 120 | NEMA 5 PLUG | 11" X 22" X 34" | BUNN | TB3 | ICED TEA BREWER (2) | 9D |
| O | | | | FS | 1/2" | 24" | 1/2" | | | 84" | C | 1.1A | 1 | | 120 | ~~~ | 22" X 14" X 26.5" | MANITOWOC | IB-0894YC | 800 LBS. ICE MACHINE | 10J |
| O | | | | | | | | | | 16" | D | 11.8A | 1 | | 208/230 | ON ROOF | 34"X 24.13"X 25.75" | MANITOWOC | QD-0875 | REMOTE CONDENSER | 10J-S1 |
| O | | | | | | | | | | | | | 1 | | 115 | FREE STANDING | 34" X 22" X 44" | MANITOWOC | IY0620A | CUBER HALF DICE CUBE | 10L |
| O | | | | | | | | | | | | | 1 | | ~~~ | ABOVE ICE MACHINE | 24"X 17.5"X 21.5" | MANITOWOC | D420 | STORAGE BIN | 10L-S1 |
| **KITCHEN EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | 450 | 10" | 1-1/2" | FS | 2" | 10" | 1/2" | | | | | | | | | SEE DETAIL | 93"x42" | KEC | CUSTOM | 93" CHINESE RANGE (L) | 20A |
| O | 190 | 10" | 1" | FS | 2" | 10" | 1/2" | | | | | | | | | SEE DETAIL | 42"x42" | KEC | CUSTOM | 42" CHINESE RANGE | 20Q |
| O | 122 FA | 14" | 1 1/2" | | | | | | | 24" | C | ~ | 1 | | 120 | | 47"x31-1/2"x51-5/8" | FRYMASTER | MJ45-FPP345G | FRYER | 21B |
| O | 54 | 10" | 3/4" | | | | | | | | | | | | | | 24"x31.5"x15.25" | VULCAN | MSA24-GD10GF | 24" GAS GRIDDLE | 23E |
| GRILL NEMA PLUG/CONNECTOR O | | | | | | | | | | 36" | C | 17.3A | 1 | | 208 | | 10.4"X22.9" | VULCAN | VMCS-101 | (2) ELECTRIC GRIDDLE TOP | |
| O | | | | | | | | | | 24" | C | 14.8A | 1 | | 120 | NEMA 5 | 19.9"X34.5"X41.3" | WINSTON | HA4005 | RICE HOLDING CABINET | 24H |
| O | 34.6 | 10" & 32" | 3/4" | | | | | | | | | | | | | | 24"x19"x17" | PANTIN | GC-6100(N) | RICE COOKER | 25A |
| O | | | | | | | | | | 24" | C | 9A | 1 | 1/2 | 115 | NEMA 5-15P | 60"X37"X36" | RANDELL | 9205F-290 | 60" WORKTOP FREEZER | 30L |
| O | | | | FS | 3/4" | | | | | 1.30" | D | 2.0AMPS | 1 | 1.5 | 120/208 | | SEE PLAN | KEC | CUSTOM | WALK-IN COOLER UNIT | 31 |
| O | | | | | | | | | | | D | 3120w/2 | 1 | 1.5 | 208 | | SEE PLAN | KEC | CUSTOM | WALK-IN COOLER COND. | 31-S |
| O | | | | FS | 3/4" | | | | | 1.30" | D | FREEZER FAN COIL UNIT POWERED FROM CONDENSER UNIT | | | | | SEE PLAN | KEC | CUSTOM | WALK-IN FREEZER | 32 |
| O | | | | | | | | | | | D | 10.0A | 1 | 1.5 | 208 | | SEE PLAN | KEC | CUSTOM | WALK-IN FREEZER COND. | 32-S1 |
| O | | | | | | | | | | | D/D | 500W | 1 | | 120 | | SEE PLAN | KEC | CUSTOM | W.I.F. LTG, DOOR HEATER | 32-S7 |
| O | | | | | | | | | | 24" | C | 15A | 1 | 1/2 | 120 | SELF CONTAINED | 84"x33"x35" | RANDELL | 9050K-7MPR2-NSB | 84" REF. PREP. TABLE | 34O |
| O | | | | | | | | | | 24" | C | 9A | 1 | 1/3 | 120 | SELF CONTAINED | 48"x33"x35" | RANDELL | 9030K-7 | 48" REF. PREP. TABLE | 34D |
| O | | | | FS | 2" | 14" | 3/4" | 14" | 3/4" | | | | | | | | 100"X30" | KEC | CUSTOM-(PS-100L) | POT SINK | 40A |
| O | | | | FS | | | | | | 48" | C | 1.52 KW | 1 | 2 | 208 | | 28"x33"x82" | ELECTROLUX | 727655 | THAWING CABINET | 40T |
| O | | | | FS | 2 | 14" | 3/4" | 14" | 3/4" | | | | | | | 1 COMPARTMENT | 42"x30" | KEC | CUSTOM-(VS-42) | 42" VEGETABLE SINK (R) | 41B |
| O | | | | FS | 2" | 14" | 3/4" | 14" | 3/4" | | | | | | | 1 COMPARTMENT | 42"x30" | KEC | CUSTOM-(VS-42) | 42" VEGETABLE SINK (L) | 41C |
| O | | | | | | | | | | 18GA POLISHED (WALL MTD. @ 59" A.F.F.) | | | | | | | SEE PLAN | PANDA WAREHOUSE | CUSTOM (NSF) | 12"D S.S. WALL MTD. SHELF | 43A |
| O | | | | | | | | | | 18GA POLISHED (WALL MTD. @ 71" A.F.F.) | | | | | | | SEE PLAN | PANDA WAREHOUSE | CUSTOM (NSF) | 16"D S.S. WALL MTD. SHELF | 43B |
| O | | | | | | | | | | 4 SHELVES MTD. @ 8" A.F.F., 26" A.F.F., 54" A.F.F., 72" A.F.F. | | | | | | | SEE PLAN | GOLD BOND | ISS | 18"D WIRE SHELVES | 44A |
| O | | | | | | | | | | UNDER CABINET SHELVES WITH CASTER MTD. @ 8" A.F.F., 20" A.F.F. | | | | | | | SEE PLAN | GOLD BOND | ISS | SHORT 18"D WIRE SHELVES | 44A-U |
| O | | | | | | | | | | 4 SHELVES MTD. @ 36" A.F.F., 48" A.F.F., 60" A.F.F., 72" A.F.F. | | | | | | | SEE PLAN | GOLD BOND | ISS | 24"D WIRE SHELVES | 44C |
| O | | | | | | | | | | UNDER CABINET SHELVES MTD. @ 8" A.F.F., 14" A.F.F. | | | | | | | SEE PLAN | GOLD BOND | ISS | SHORT 24"D WIRE SHELVES | 44C-U |
| O | | | | | | | | | | | | | | | | | 24"x 30" x 24" | KEC | CUSTOM | S.S. RICE COOKER STAND | 46A |
| O | | | | | | | | | | | | | | | | | 22"x 20" x 34.06" | KEC | CUSTOM | RICE WARMER STAND | 46B |
| O | | | | | | | | | | | | | | | | | 36 1/2"x 33" x 26" | KEC | CUSTOM | S.S. GRILL STAND | 46K |
| O | | | | | | | | | | | | | | | | | 18"x 33" x 30" | KEC | CUSTOM | STAND | 46N |
| O | | | | | | | | | | 50" | C | 10A | 1 | 1 | 120 | 9 15/16"x19-11/16"x19-3/4" | | ELECTROLUX | DITO-TPS24 | FOOD PROCESSOR | 53 |
| O | | | | FS | 7/8" | 76" | 3/4" | 14" | 3/4" | 24" | C | 53A | 1 | 4 | 208 | | 32"x37"x88" | HOBART | PW10SER | DISHWASHER | 70D |
| O | | | | FS | | | | | | | | | | | | | 14"x14"x21" | HOBART | WS-40 | WATER SOFTENER | 70D1 |
| **SMALL EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | 2" | 24" | 1/2" | 24" | 1/2" | | | | | | | W/TOWEL & SOAP | 14 1/4"x18 1/2" | GSW | HS-1615NPASS | HAND SINK | 45A |
| O | | | | | | | | | | 24" | C | 105W | 1 | | 120 | ON S.S. COUNTER | 17" ø | WELBON | WRS-1088BS | RICE WARMER | 54A |
| O | | | | | | | | | | 84" | DC | 180W | 1 | | 208 | PLUG: NEMA 6-15R | 17 1/2"x13 5/8"x22 9/16" | SHARP | R-CD1800M | MICROWAVE | 55A |
| BY G.C. | | | | | | | | | | | | | | | | AS REQUIRED BY LOCAL FIRE DEPT., CHECK LOCATION WITH PROJECT MANAGER | | | | FIRE EXTINGUISHER | 56 |
| O | | | | | | | | | | | | | | | | | SEE DETAIL | SAN-JAMAR | SANJT7500TBK | PAPER TOWEL DISPENSER | 60D |
| O | | | | | | | | | | | | | | | | WALL MOUNT | 12"x20"x77" | GSW | 5-DOOR | LOCKER (2) | 61B |
| O | | | | | | | | | | | | | | | | | 20"X20"X23" | TIDEL | CUSTOM | SMART SAFE | 62B |
| **POS EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | | | SEE ELEV. ON E-200 | 48" X 28" X 42" | KEC | CUSTOM | MANAGER STATION | 49A |
| O | | | | | | | | | | REF ELEV | C | 100W | 1 | | 120 | SEE DETAIL | | DELL OPTIPLEX | Xe2 | COMPUTER | 83A |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | SEE PLAN | | BROTHER | MFC-LC2700DW | POS PRINTERS | 86A |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | | | BROTHER | MFC-LC2700DW | FAX | 87 |
| O | | | | | | | | | | REF ELEV | C | 500W | 1 | | 120 | CUSTOM | 11 1/4"x14 1/2"x9" | RESNOS | S 460 | CASH REGISTER SYSTEM | 94 |
| **MEP EQUIPMENT** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | | | SEE MECH. DWG. | SEE PLAN | CAPTIVE AIR | CUSTOM | EXHAUST HOOD | M1 |
| O | | | | | | | | | | | | | | | | SEE MECH. DWG. | SEE PLAN | CAPTIVE AIR | CUSTOM | HOOD CONTROL PANEL | M4 |
| O | | | | | | | | | | | | | | | | SEE MECH. DWG | SEE PLAN | CAPTIVE AIR | | FIRE SUPPRESSION SYSTEM | M5 |
| BY G.C. | | | | | | | | | | | | | | | | SEE MECH/ELEC DWG | SEE PLAN | | | RECESSED ANSUL PULL BOX | M6 |
| O | | | | | | | | | | 90" | D | 5.1A | 1 | 1/2 | 115 | SEE MECH/ELEC DWG | 42" X 10 5/8" | MARS | STD242-1U | BACK DOOR AIR CURTAIN | M8a |
| O | | | | | | | | | | 90" | D | 5.1A | 1 | 1/2 | 115 | SEE MECH/ELEC DWG | 36" X 10 5/8" | MARS | STD236-1U | D.T. DOOR AIR CURTAIN | M8c |
| BY G.C. | | | | | | | | | | 24" | D | 30A | 1 | | 120 & 208 | SEE ELEC. DWG | 25"X 9" X 14 3/8" | QUIK-SERV | CHF-25 HEATED | DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH | M9a |
| BY G.C. | | | | | | | | | | 24" | D | 20A | 1 | | 120 | SEE ELEC. DWG | 47.5"X 59.5" | QUIK-SERV | SST-4860E | DT WINDOW | M10 |
| BY G.C. | | | | 3" | 36" | – | 36" | – | | | D | | | | | FLOOR TYPE | 24" X 24" X 13" | G.S.W. PHONE:1800-897-5999 | SE2424FM | STAINLESS STEEL MOP SINK | P1 |
| BY G.C. | | | | | | | | | | 84" | C | 8A | 1 | | 120 | SEE PLUMBING DWG | 39" X 29.75" X 13" | RINNAI | MTO-00247 | GAS TANKLESS WATER HEATER | P3 (2) |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | SEE ELEV. ON E-200 | SEE PLAN | | | HYPERACTIVE TIMER SYS. | 94-1A |
| O | | | | | | | | | | 48" | C | 50W | 1 | | 120 | SEE PLAN | 15" X 13" | DELL (17" COLOR) | | LCD MONITOR-MANAGER | 94-2-16 |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | SEE ELEV. ON E-200 | SEE PLAN | HME | | HME INTERCOM SYS. | 94-3-1 |
| O | | | | | | | | | | REF ELEV | C | 60W | 1 | | 120 | SEE PLAN | 15" | POSIFLEX | KS7215 | LCD DT MONITOR | 94-W |
| O | | | | | | | | | | REF ELEV | C | 50W | 1 | | 120 | W/ EMI LOCK | SEE PLAN | TOSHIBA (TIME LAPSE) | | SECURITY VCR | 95-4-S2 |
| O | | | | | | | | | | 98" | C | 50W | 1 | | 120 | SEE ELEC. DWG | 15" X 13" | DELL (17" COLOR) | | SECURITY MONITORS | 95-4-S3 |
| O | | | | | | | | | | REF ELEV | C | 100W | 1 | | 120 | IN S.S. COUNTER | SEE PLAN | | | MUSIC EQUIPMENT | 95-5 |
| BY G.C. | | | | | | | | | | | | | | | | SEE ELEC. DWG | | | | ELECTRICAL PANEL | E7 |
| **SIGNAGE** | | | | | | | | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | | | | REF. INT. ELEV'S | LSI | CUSTOM | MENU BOARD | D2b |
| O | | | | | | | | | | | | | | | | BF-POWER COAT "DF125 SILVER" | | FAD | – | COMMUNITY BOARD | D3b |
| O | | | | | | | | | | REF ELEV | C | 130W | 1 | | 120 | DEDICATED CIRCUIT | 48.9" X 28.1" X 1.3" | LG | 50WS50BS-B | LCD DISPLAY MONITOR | 96-3B |



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REVISIONS:

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|---|---|
| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

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# E-001

ELECTRICAL SCHEDULES

1. ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN WALL.
2. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.
3. PROVIDE (2) 1-1/2" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER STATION. SEE P.O.S. AND SERVICE LINE ELEVATIONS, 3/E-200.
4. SEE 'MANAGER STATION ELEVATION' 1/E-200 FOR ADDITIONAL OUTLETS AND J-BOXES.
5. ANSUL PULL STATION. REFER TO DETAIL, 2/E-400.
6. REFER TO 'LTG AND DOOR HEATER' WIRING DIAGRAM, 10/E-400.
7. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
8. SHOW WINDOW RECEPTACLE SHALL BE CONTROLLED VIA SWITCH "b". REFER TO LIGHTING SWITCHBANK SCHEDULE, SHEET 4/E101. RECEPTACLE SHALL BE MOUNTED IN WALL AS CLOSE TO TOP OF STRUCTURAL HEADER AS POSSIBLE.
9. BUILDING SIGNAGE/LOGO DEDICATED/PROPOSED W.P. J-BOX FOR SIGNAGE. COORDINATE LOCATION WITH ARCHITECT / OWNER / SIGN PACKAGE PRIOR TO ROUGH-IN. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR.
10. REFER TO 'FREEZER EVAPORATOR COIL' WIRING DIAGRAM, 9/E-400. THE FAN COIL UNIT IS POWERED FROM THE CONDENSER UNIT VIA DISCONNECT CONNECTION. HEAT TAPE PROVIDED AND INSTALLED BY ELECTRICIAN.
11. NOT USED.
12. NOT USED.
13. HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
14. PROVIDE 2-GANG J-BOX @ 48" AFF FOR HOOD CONTROL SWITCHES. REFER TO M-400 AND M-401.
15. 1" CONDUIT STUB UP LOCATION IN STAINLESS STEEL POWER PANEL FOR ISLAND KITCHEN EQUIPMENT CONNECTION. REFER TO DETAIL 2/A-109. COORDINATE LOCATION WITH ARCHITECT / OWNER.
16. ROUTE CABLING / CIRCUITRY THROUGH 1" CONDUIT IN SLAB.
17. UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ALONG LOW WALL PANEL.
18. ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH GROUND FAULT CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSUV). REFER TO COOKLINE ELECTRICAL ELEVATIONS, 6/E-200. ROUTE HOMERUN THROUGH CONTRACTOR INTERFACED WITH THE HOOD FIRE SUPPRESSION SYSTEM. REFERENCE 13/E-400 FOR ADDITIONAL INFORMATION.
19. SIMPLEX RECEPTACLE TO BE CONNECTED TO BACK-OF-HOUSE LIGHTING CIRCUITRY/CONTROL. CONTRACTOR TO PROVIDE PIGTAIL FROM CIRCULATION PUMP.
20. PROVIDE WEATHERPROOF RECEPTACLE FOR HEAT TAPE. COORDINATE FINAL LOCATION WITH REFRIGERATION INSTALLER.
21. ELECTRIC GRIDDLE '23E': FEED WITH (2) #6, (1) #10 GROUND, 3/4" CONDUIT. REFER TO 4/E-200.
22. SEE DRIVE THRU ELEVATION 2/E-200 FOR CONDUIT SIZES AND CONFIGURATIONS.
23. SEE TICKET PRINTER ELEVATIONS, 7/E-200. 2
24. PROVIDE WATERPROOFING, COVER, IN-USE RED DOT (#CKSUV).
25. SEE FOR DRIVE-THRU ELEVATIONS, 2/E-200.
26. SEE DRINK STATION ELEVATIONS, 5/E-200.
27. SEE 3/E-200 FOR SERVICE LINE ELEVATIONS.
28. SEE DEVICE / RECEPTACLE SCHEDULE 3/E400.
29. SEE DINING ROOM MONITOR ELEVATION, DETAIL 8/E-200.
30. PROVIDE AND INSTALL 3/4" CONDUIT AND PULL STRING FROM CLOSEST LANDSCAPE AREA, THROUGH WALL UP TO EMPTY FLUSH MOUNTED JUNCTION BOX @ 54" A.F.F. (FOR IRRIGATION CONTROLS). CLOSE OFF CONDUIT IN LANDSCAPE AREA WITH REMOVABLE CAP. UTILIZE WP CIRCUIT A-53 NEAR ENTRY POINT.
31. REFER TO 9/E-200 FOR LOCATION/INSTALLATION OF C02 DEVICE.
32. SEE SWITCH BANK ELEVATION , DETAIL 7/E-200.
33. FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK SIMPLEX OUTLET. TYP OF ALL LOCATIONS.
34. SEE SECURITY KEY PAD ELEVATION 1/E200.
35. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
36. PANDA EXPRESS TO PROVIDE C02 MONITOR, E.C. TO MOUNT OVER J-BOX WITH WIRING THROUGH WALL CONDUIT FOR CLEAN INSTALLATION. PROVIDE ALL OTHER REQUIRED CONNECTIONS AND COMPONENTS FOR FULLY WORKING SYSTEM.
37. PROVIDE IN-GRADE QUAZITE 8"X8" PC STYLE POLYMER CONCRETE BOX OR EQUAL FOR UNDERGROUND CABLE REQUIRED FOR THE STORE. PART NO. PC081XXXXX OR SIMILAR. REFER TO ELECTRICAL SITE PLAN 1/E105.
38. PROVIDE 1" CONDUIT FOR CABLE DEDICATED FOR ENTIRE STORE FROM IN-GRADE 8X8 QUAZITE BOX TO EXTERIOR CLOSET 6X6 FLUSH MOUNTED JUNCTION BOX. TERMINATE INTERIOR ABOVE CEILING.
39. PROVIDE FLUSH MOUNTED NEMA 1 6X6 JUNCTION/PULL BOX AT +48" - HUBBELL OR EQUAL. ROUTE CABLE FROM EXTERIOR 6X6 IN 1" CONDUIT THROUGH BUILDING. TERMINATE INTERIOR ABOVE CEILING.
40. PROVIDE A 1" CONDUIT FOR CIRCUIT 'A' 69 FOR POWER SUPPLY TO THE DRIVE THRU HOT WELL CABINET. PROVIDE A ¾" CONDUIT FROM THE THIS LOCATION TO ABOVE CEILING NEAR THE MANAGER CABINET FOR LOW VOLTAGE WIRING. 2
41. FIRE SUPPRESSION SHUTDOWN CONTACTOR LOCATED ABOVE CEILING . REFER TO 13/E-400.
42. ELECTRICIAN TO WALL MOUNT A NEMA ELECTRICAL DISCONNECT BOX. ELECTRICIAN TO SUPPLY A WIRE WHIP FROM BOX TO MACHINE, FINAL CONNECTIONS BY HOBART SERVICE.
43. PROVIDE J-BOX FOR DOOR RELEASE BUTTON.

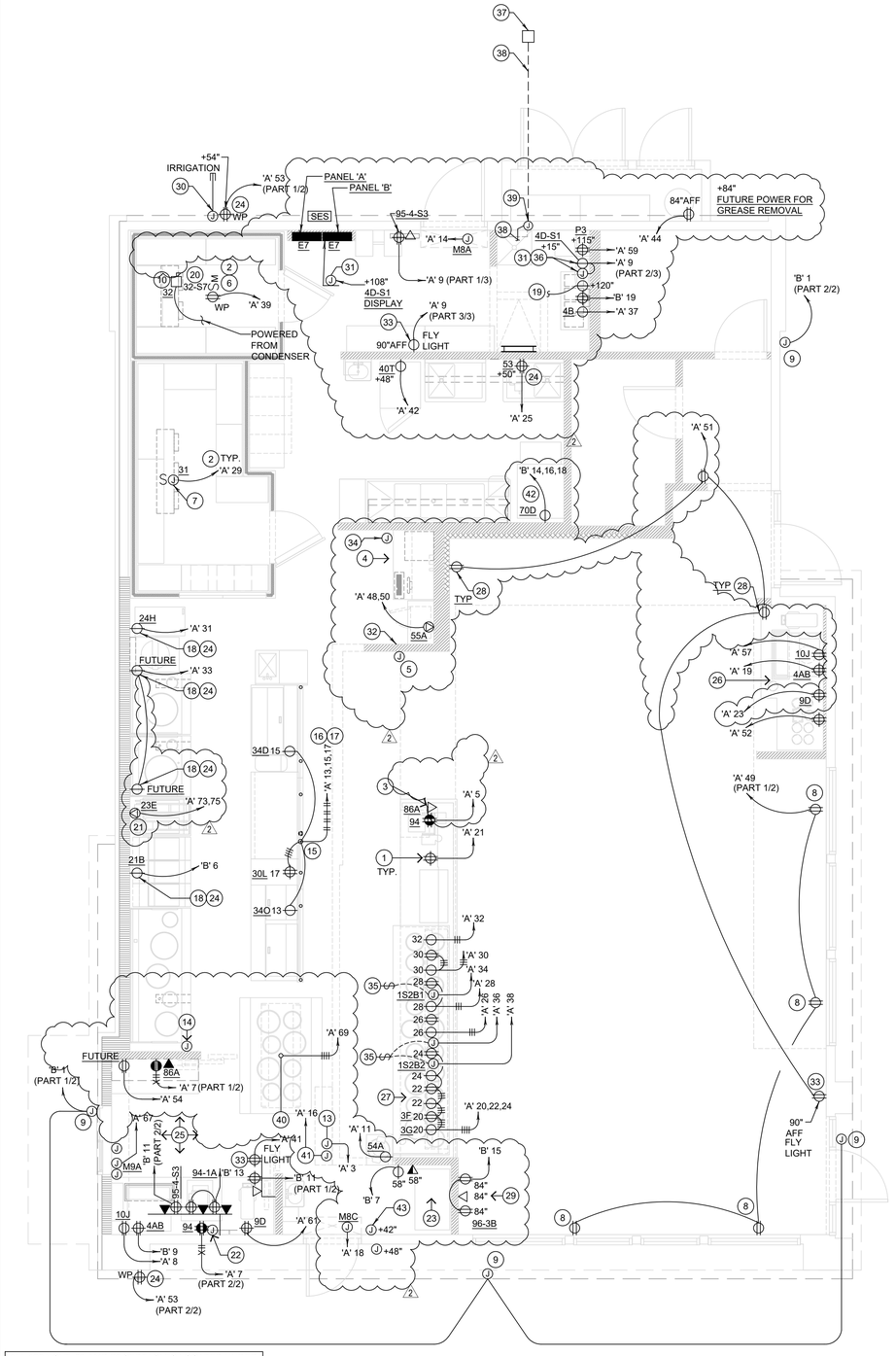
(#) POWER PLAN KEYED NOTES 3

NOT TO SCALE E-100

1. VERIFY QUANTITIES AND REQUIREMENTS OF ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
2. ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATIONS OF ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
3. POWER SUPPLY FOR COMPUTER AND CASH REGISTER (86A & 94) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ISOLATED GROUND & ORANGE RECEPTACLE.
4. ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
5. WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2017 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2017 NEC 210.4(B).
6. TRANSFORMERS SHALL BE MOUNTED ABOVE CEILING BELOW TRUSSES WITH LOW VOLTAGE WIRING FEEDING TO ALL EXTERIOR LIGHTS.
7. ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW F.F.

POWER PLAN GENERAL NOTES 2

NOT TO SCALE E-100




ALL 120 VOLT, 20 AMP RECEPTACLES LOCATED UNDER COUNTERS WITHIN SERVING AREA 101, DRIVE-THRU 102, AND KITCHEN 103 TO BE SERVED FROM GFCI-TYPE CIRCUIT BREAKERS PER NEC 210.8 (B) (2).

POWER FLOOR PLAN 1

Scale: 1/4"=1'-0" E-100

[redacted]

PANDA EXPRESS CHINESE KITCHEN


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288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PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604

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02.08.2022

GEORGIA REGISTERED No. PE039430 PROFESSIONAL ENGINEER JAISON P MORAS

JAISON MORAS, GA #039430

[redacted]

# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

[redacted]

# E-100

POWER FLOOR PLAN

[redacted]

TRUE WARM & WELCOME 2300 R6

- CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARES, BRACKETS, ETC. FOR A COMPLETE LIGHTING FIXTURE INSTALLATION.
- FIXTURES THAT ARE TO BE ROUTED VIA TIMECLOCKS ARE SHOWN ON DETAIL 11/E400. SEQUENCE OF OPERATION: TIMECLOCKS WIRED FIRST FOR DESIGNATED CONTROL. SWITCHES ARE SERIES WIRED WITH THE CONTACTORS. UTILIZE DIGITAL OVERRIDE TIMER SWITCH (DOTS) TO OVER-RIDE THE TIMECLOCKS FOR CLEANING AND AFTER HOURS AS NEEDED. SEE DETAIL 11/E400
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER N.E.C. 410-16(C). SEE DETAIL, 4/E400.
- CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES INCLUDING OWNER-FURNISHED FIXTURES.
- ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.
- E.C. SHALL INSTALL OWNER SUPPLIED LED STRIP LIGHTING & CUT TO PROPER LENGTH. COORDINATE WITH OWNER FOR EXACT LENGTHS AND FINAL LOCATIONS.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- 'N.L.' DESIGNATION INDICATES NIGHT LIGHT ON UNSWITCHED CIRCUIT.

## LIGHTING GENERAL NOTES 2

NOT TO SCALE E-101

1. SWITCHBANK 'A'. REFER TO SCHEDULE 4/E-101.
2. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCHES AS NOTED IN LOWER CASE). REFER TO SCHEDULE 4/E-101 FOR MORE INFORMATION.
3. ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M4' FOR CIRCUIT POWER. REFER TO 3/E-401.
4. PROVIDE SEPARATE UNSWITCHED HOT CONDUCTOR (SAME CIRCUIT, NOT CONTROLLED BY SWITCH IN SWITCHBANK) TO LOCALLY SWITCHED FIXTURES AND EMERGENCY FIXTURE BATTERY TRIGGER LEADS.
5. DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT +128". REFER TO 8&9/A-402 FOR MORE INFORMATION.
6. WALK-IN COOLER LIGHT FIXTURES AND PILOT LIGHT SWITCH PROVIDED WITH COOLER INSTALLED BY E.C. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
7. WALK-IN FREEZER LIGHT FIXTURE AND PILOT LIGHT SWITCH PROVIDED WITH FREEZER INSTALLED BY E.C. REFER TO 'FREEZER LTG AND DOOR HEATER WIRING DIAGRAM', 10/E-400.
8. NOT USED.
9. FIXTURES IN THIS ROOM SHALL BE LOCALLY SWITCHED.
10. LIGHTING INVERTER FOR EMERGENCY LIGHTING TO BE MOUNTED TO BULKHEAD. RE: 9/E200.
11. LED TRANSFORMER FOR LED ROPE LIGHTING LOCATION, MOUNT ABOVE CEILING.
12. NOT USED.
13. PROVIDE JUNCTION BOX ABOVE CEILING FOR THE B2-150 UNIVERSAL POWER PACK REQUIRED FOR EXTERIOR MOTION CONTROL LED FIXTURES. PROVIDE LOW VOLTAGE CONNECTIONS AS REQUIRED TO LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR SO THAT WHEN STORE OPERATIONS ARE OFF THIS EXTERIOR SECURITY LIGHT IS ACTIVATED BY EXTERIOR MOTION ONLY. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
14. PROVIDE WALL MOUNTED JUNCTION BOX AT +142" FOR INSTALLATION. INSTALL LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR FOR EXTERIOR MOTION CONTROL SECURITY FIXTURES TYP OF 2 LOCATIONS. CONTROL TIMES OF CONTROL SO THAT WHEN STORE OPERATIONS ARE OFF INTERIOR LIGHTS GO OFF AND THE EXTERIOR MOTION LIGHTS ARE ACTIVATED WITH ANY MOTION DETECTED AFTER STORE HOURS. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
15. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCH AS NOTED IN LOWER CASE). REFER TO SCHEDULE, SHEET 4/E-101, FOR MORE INFORMATION.
16. CONNECT TO VEGETABLE DISPLAY LIGHTING PROVIDED WITH WALK-IN COOLER.
17. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.

## LIGHTING KEYED NOTES 3

NOT TO SCALE E-101

NOTE:
FIXTURES TO BE ROUTED VIA TIME TIMECLOCKS ARE SHOWN ON DETAIL 11/E400.

NOTE:
CONTRACTOR TO INSTALL (2) 5 GANG SWITCH BOXES AS SHOWN BELOW. DO NOT INSTALL SEPERATE/INDIVIDUAL BOXES FOR EACH SWITCH

| (a) | (b) | (c) | (d) | (e) |
|---|---|---|---|---|
| $ | $ | $ | $ | $ |
| BACK OF HOUSE LTG & EX. FAN & RECIRC PUMP | SHOW WINDOW RECEPS | WALK-IN, MENU LED ACCENTS | SERVING LINE SOFFIT | DINING PENDANTS |

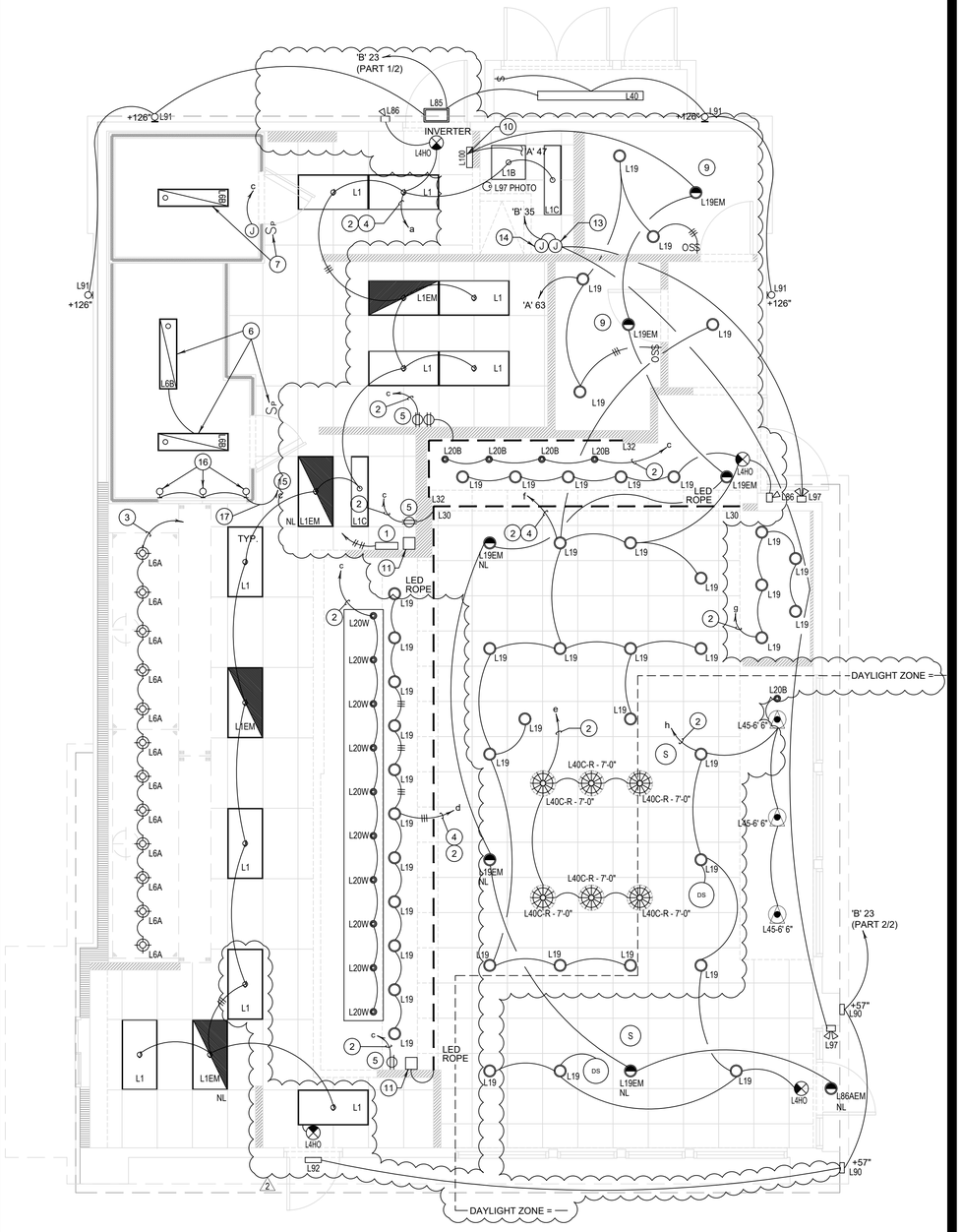
| (f) | (g) | (h) | (i) | 60:00 |
|---|---|---|---|---|
| $ | $ | $ | $ | |
| INTERIOR DINING | BEV. COUNTER | INTERIOR DINING | PENDANTS & WALL WASH | INTERIOR LIGHTING SHUT DOWN OVERRIDE |

## SWITCHBANK SCHEDULE 'A'

| TAG | SWITCH TYPE | AREA SERVED / SWITCH LABEL | CIRCUIT | LOAD |
|---|---|---|---|---|
| a | TOGGLE SWITCH | BACK-OF-HOUSE / RR FANS | 'A' 45 | 740 VA |
| b | TOGGLE SWITCH | SHOW WINDOW RECEP | 'A' 49 | 720 VA |
| c | TOGGLE SWITCH | WALK-INS, MENU, LED ACCENTS | 'A' 1 | 590 VA |
| d | TOGGLE SWITCH | SERVING LINE SOFFIT | 'A' 45 | 99 VA |
| e | TOGGLE SWITCH | DINING PENDANTS | 'A' 47 | 240 VA |
| f | TOGGLE SWITCH | INTERIOR DINING | 'A' 47 | 180 VA |
| g | TOGGLE SWITCH | BEVERAGE COUNTER | 'A' 47 | 45 VA |
| h | TOGGLE SWITCH | INTERIOR DINING / WALLWASH | 'A' 47 | 106 VA |
| i | SPARE | | | |
| j | SPARE | | | |

## INTERIOR / EXTERIOR LTG CONTACTORS SCHEDULE 4

NOT TO SCALE E-101




## LIGHTING FLOOR PLAN 1

Scale: 1/4"=1'-0" E-101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02.08.2022

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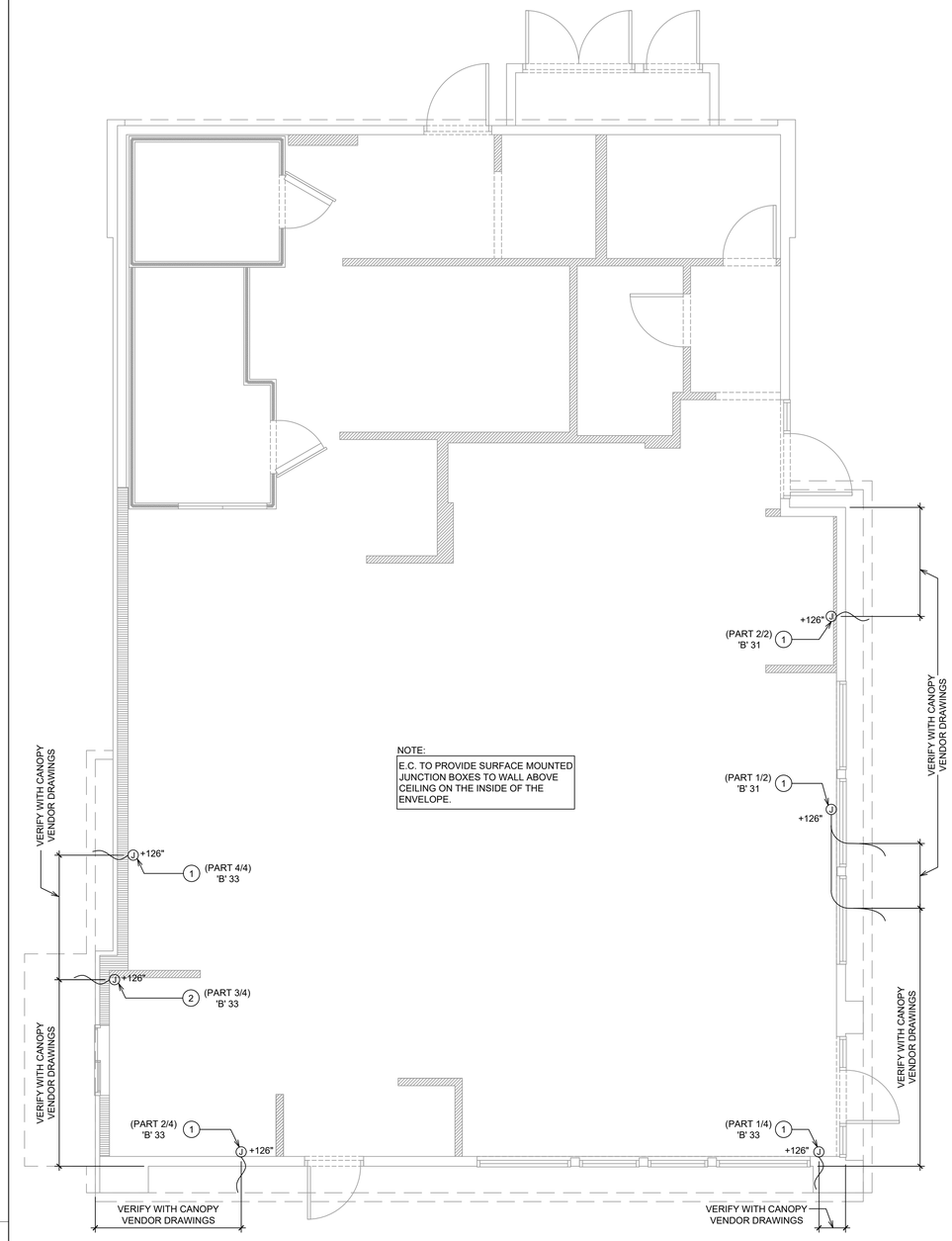
# E-101

LIGHTING FLOOR PLAN

TRUE WARM & WELCOME 2300 R6




1. E.C. TO PROVIDE J-BOX WITH 3' WHIP FOR CONNECTION TO PANDA EXPRESS PROVIDED LIGHTED CANOPY. E.C. TO MAKE FINAL CONNECTION.
2. E.C. TO PROVIDE J-BOX WITH 3' WHIP FOR CONNECTION TO PANDA EXPRESS PROVIDED LIGHTED DRIVE THRU CANOPY. E.C. TO MAKE FINAL CONNECTION.
3. ALL JUNCTION BOXES ON THIS SHEET TO BE RECESS MOUNTED.

(#) CANOPY LIGHTING KEYED NOTES 2

NOT TO SCALE E-101.1

CANOPY LIGHTING PLAN 1

Scale: 1/4"=1'-0" E-101.1

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# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
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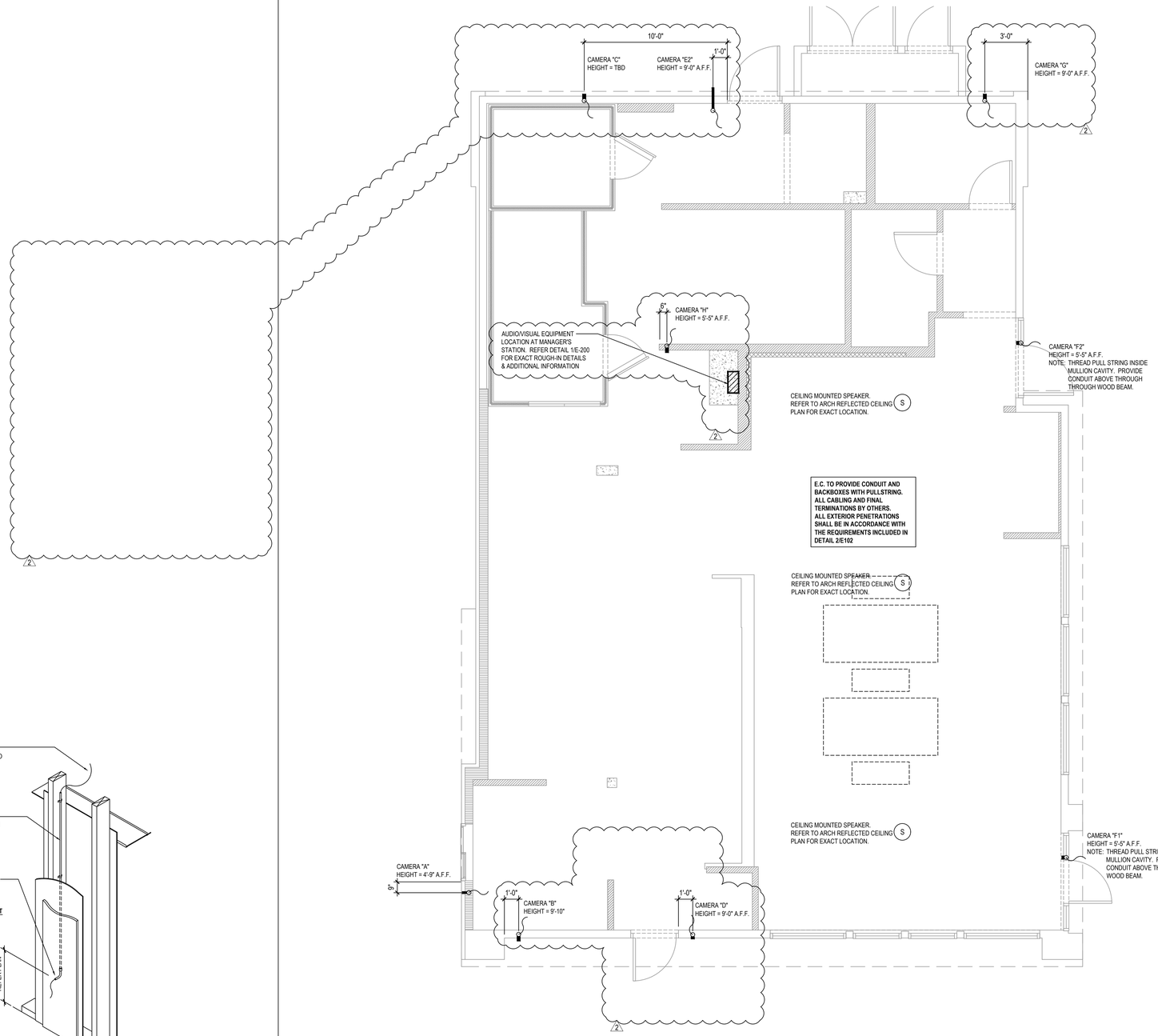
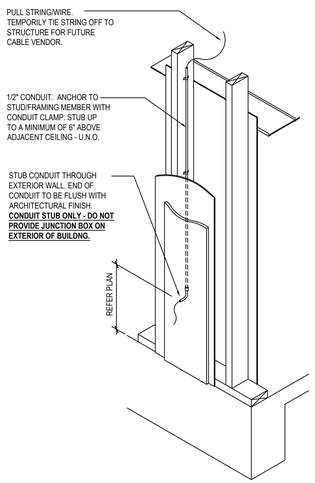
# E-101.1

CANOPY LIGHTING PLAN

TRUE WARM & WELCOME 2300 R6




CONDUIT ROUGH-IN DETAIL 2

NOT TO SCALE E-102

SECURITY CAMERA PLAN 1

Scale= 1/4" = 1'-0" E-102

PANDA EXPRESS CHINESE KITCHEN

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PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# E-102

SECURITY CAMERA PLAN

TRUE WARM & WELCOME 2300 R6

- ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
- ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW IN THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0' OF DIRECT SOLAR EXPOSURE.
- VERIFY ALL FUSE SIZES AND TYPES WITH THE MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- REVIEW THE MECHANICAL PLANS FOR HVAC CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
- VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING M-100 AND INTERLOCK WITH FIREALARM.
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL DRAWING M-100.
- E.C. COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIIRED) FOR INTERLOCK SEQUENCE FOR FIRE SUPPRESSION.
- RESTROOM EXHAUST FAN TO BE POWERED FROM BACK OF HOUSE LIGHTING CIRCUIT. SEE DETAIL 5/E400 FOR ADDITIONAL INFORMATION.

## ROOF PLAN GENERAL NOTES 2

NOT TO SCALE E-104

1. ROUTE HOMERUN ~~THROUGH BACK OF HOUSE~~ LIGHTING CIRCUIT. REFER TO LIGHTING CONTACTOR SCHEDULE) 4/E-101. FAN TO BE CONTROLLED BY ~~SWITCH FOR BACK OF HOUSE~~ LIGHTING. 2
2. DUCT SMOKE DETECTOR. FURNISHED BY MECHANICAL/FACTORY, WIRED BY ELECTRICAL / FIRE ALARM CONTRACTOR. FURNISH AND INSTALL ALL RACEWAY, WIRING, AND ADDITIONAL ACCESSORIES REQUIRED FOR CODE COMPLIANCE AND UNIT SHUTDOWN.
3. CIRCUIT FEEDS FROM PANELBOARD - THROUGH HOOD CONTROL PANEL - UP TO ROOF. REFER TO DETAIL, SHEET 3/E-401 & KITCHEN HOOD SUBMITTAL DATA.
4. REFER TO CONDENSING UNIT WIRING DIAGRAM, 7/E-400.
5. STRUT RACK SUPPORT FOR EQUIPMENT DISCONNECT SWITCHES. REFER TO DETAIL, SHEET 2/E-401.
6. PROVIDE AND INSTALL 2-1/2" DIA GALVANIZED RIGID METAL CONDUIT AND WEATHERHEAD +24" A.F.G. CONDUIT TO BE STRAPPED TO CLOSEST JOIST TO THE MANAGER'S STATION (FULL DEPTH).
7. DO NOT INSTALL UNTIL BACK DRAFT DAMPER INSTALLATION IS COMPLETE. UTILIZE FACTORY KNOCKOUTS FOR ELECTRICAL RUN FOR THIS FAN. REFER TO SHEET M-402.
8. MOUNT PHOTOCELL AS DETAILED ON EQUIPMENT DISCONNECT SWITCH SUPPORT DETAIL 2/E401 ON CONDENSER RACK.
9. STUB ELECTRICAL FEED FOR EF-1 & EF-2, THROUGH ROOF ON HINGE SIDE OF EXHAUST FANS, IN LOCATION AS SHOWN ON POWER ROOF PLAN. REFER TO DETAIL 3/M-501 FOR ADDITIONAL DETAILS.
10. ROUTE POWER FEEDS VIA FACTORY PROVIDED THRU-BASE CONNECTION AREA. COORDINATE WITH MECHANICAL.
11. UNIT INCLUDES FACTORY MOLDED CASE DISCONNECT SWITCH (NO OCP). VERIFY WITH MECHANICAL SUBMITTAL DATA. PROVIDE DISCONNECT IF / AS REQUIRED.

## (#) ROOF PLAN KEYED NOTES 3

NOT TO SCALE E-104

## ROOFTOP EQUIPMENT SCHEDULE

| TAG | DESCRIPTION | kW | H.P. | FLA | VOLT/Ø | WIRE, CONDUIT | CONN. | MOUNT HEIGHT | DISC. SW. WITH RK1 FUSES PER MFR'S REQ'S. AND/OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| RTU1 | A/C UNIT | | | 33.0 | 208V.3Ø | 3 #8, #10 GND., 1" C. | □[4] | AT UNIT | 60A. 3P. 3F. WP (1) (4) |
| RTU2 | A/C UNIT | | | 46.0 | 208V.3Ø | 3 #6, #10 GND., 1" C. | □[4] | AT UNIT | 60A. 3P. 3F. WP (1) (4) |
| RTU3 | A/C UNIT | | | 46.0 | 208V.3Ø | 3 #6, #10 GND., 1" C. | □[4] | AT UNIT | 60A. 3P. 3F. WP (1) (4) |
| | | | | | | | | | |
| CU-1 | CONDENSING UNIT | | | 21.4 | 208V.3Ø | 3 #10, #10 GND., 1" C. | □[4] | AT UNIT | 30A. 3P. 3F. WP |
| CU-2 | CONDENSING UNIT | | | 21.4 | 208V.3Ø | 3 #10, #10 GND., 1" C. | □[4] | AT UNIT | 30A. 3P. 3F. WP 2 |
| | | | | | | | | | |
| MA-1 | MAKE-UP AIR UNIT | | 5.0 | 15.0 | 208V.3Ø | 3 #12, #12 GND., 3/4" C. | □[4] | AT UNIT | (1) (4) |
| | | | | | | | | | |
| EF-1 | EXHAUST FAN | | 2.0 | 5.9 | 208V.3Ø | 3 #12, #12 GND., 3/4" C. | □[4] | AT UNIT | (1) |
| EF-2 | EXHAUST FAN | | 2.0 | 5.9 | 208V.3Ø | 3 #12, #12 GND., 3/4" C. | □[4] | AT UNIT | (1) |
| EF-3 | EXHAUST FAN | | 1/4 | 4.8 | 120V.1Ø | 2 #12, #12 GND., 3/4" C. | □[4] | AT UNIT | 30A. 2P. 1F. WP (1) (4) |
| | | | | | | | | | |
| 31-S | W/I COOLER COND. | | | 27.0 | 208V.1Ø | 2 #10, #10 GND., 3/4" C. | ☒[4] | AT UNIT | (2) (3) |
| 32-S1 | W/I FREEZER COND. | | | 32.0 | 208V.1Ø | 2 #8, #8 GND., 3/4" C. | ☒[4] | AT UNIT | 30A. 2F. WP (2) (3) |
| 10J-S1 | ICE MACHINE COND. | | | 11.7 | 208V.1Ø | 2 #12, #12 GND., 3/4" C. | ☒[4] | AT UNIT | (2) (3) 2 |

(1) DISCONNECT SWITCH PROVIDED WITH UNIT.

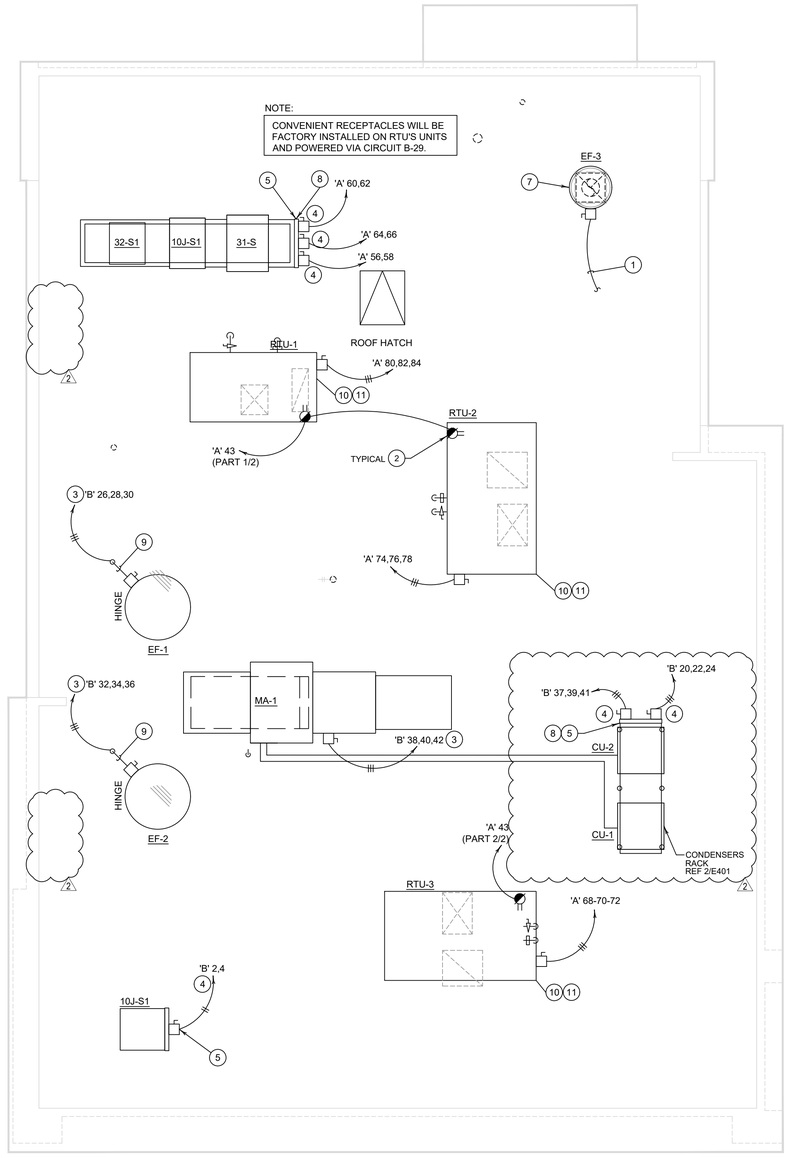
(2) COMBINATION 30A. 2P. 2F. WP DISCONNECT SWITCH WITH RK5 FUSES PER MANUFACTURER RECOMMENDATION.

(3) COMBINE CIRCUITRY IN 1" CONDUIT FROM J-BOX ON EQUIPMENT DISCONNECT SWITCH SUPPORT. REFER TO DETAIL THIS SHEET, 1 / E-104.

(4) ELECTRICAL FEEDS ARE TO BE ROUTED FROM PLENUM SPACE, UP THROUGH EQUIPMENT CURB, INTO BOTTOM OF EQUIPMENT, THROUGH FACTORY INSTALLED WATER TIGHT CONNECTIONS.

## HVAC EQUIPMENT SCHEDULE 4

NOT TO SCALE E-104




## ROOF POWER PLAN 1

1/4" = 1'-0" E-104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# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# E-104

ROOF POWER PLAN

TRUE WARM & WELCOME 2300 R6

1. COORDINATE SERVICE ENTRANCE SECTION, TRANSFORMER, PRIMARY SERVICE, SECONDARY SERVICE, AND SWITCHING CABINET OR POWER POLE LOCATIONS WITH SERVING UTILITY COMPANY AND COMPLY AS REQUIRED.
2. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND TELEPHONE UTILITIES TO THE BUILDING.
3. CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED PRIOR TO TRENCHING. ALL UNDERGROUND UTILITIES DAMAGED DURING TRENCHING SHALL BE REPAIRED TO THE SATISFACTION OF INVOLVED UTILITY AT CONTRACTOR'S EXPENSE.
4. MINIMUM CONDUCTOR SIZE THIS SHEET TO BE #10 CU, 1" CONDUIT.

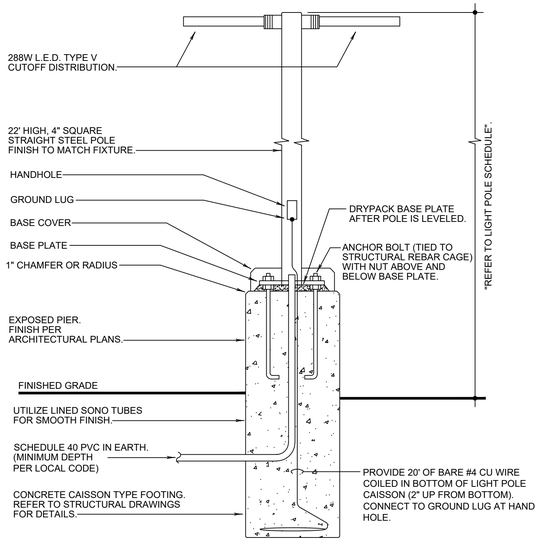
## SITE PLAN GENERAL NOTES 2

E-105

1. FEED THROUGH LIGHTING CONTACTOR. REF: 11/E-400.
2. STUB UP LOCATION FOR (3) 3/4" CONDUITS & PULL STRINGS, TO ENTER BUILDING & UP TO 6" ABOVE CEILING. REFER TO SHEET 1/E-401.
3. STUB-UP LOCATION FOR MENU BOARD. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR. COORDINATE PRECISE LOCATION WITH ARCHITECT / OWNER.
4. DRIVE-THRU SENSOR LOOP. COORDINATE LOCATION. REFER TO DETAIL 1 / E-401.
5. STUB-UP FOR DRIVE-THRU ORDER CONFIRMATION MONITOR. COORDINATE LOCATION WITH ARCHITECT / OWNER.
6. STUB UP LOCATION FOR PYLON SIGN OR MONUMENT SIGN. ELECTRICAL CONTRACTOR TO PROVIDE NON-FUSED DISCONNECT AT BASE OF SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. CONNECT TO EXTERIOR BUILDING SIGN TIMER CONTROL. REFERENCE 11/E-400.
7. SEE POLE MOUNTING DETAIL, REFER TO 4/E105.
8. CABLE PULL BOX; REFERENCE 1/E100. INSTALL MINIMUM 3' FROM SIDEWALK. DO NOT INSTALL IN SIDEWALK CONCRETE.
9. REF:1/E-400 FOR SES GROUNDING DETAIL.

## (#) SITE PLAN KEYED NOTES 3

E-105




NOTE: THIS DETAIL IS FOR ELECTRICAL INSTALLATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

## POLE MOUNTING DETAILS 4

NO SCALE E-106

## SITE & EXTERIOR LIGHTING PLAN 1

1" = 16'-0" E-105


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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| 2 | 02.08.22 PROTOTYPE UPDATE |

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DRAWN BY: JEL/DSM

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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Architects Engineers Planners
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www.cpz.com
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02.08.2022

GEORGIA REGISTERED NO. PERSON PROFESSIONAL ENGINEER JAISON P MORAS

JAISON MORAS,
GA #039430

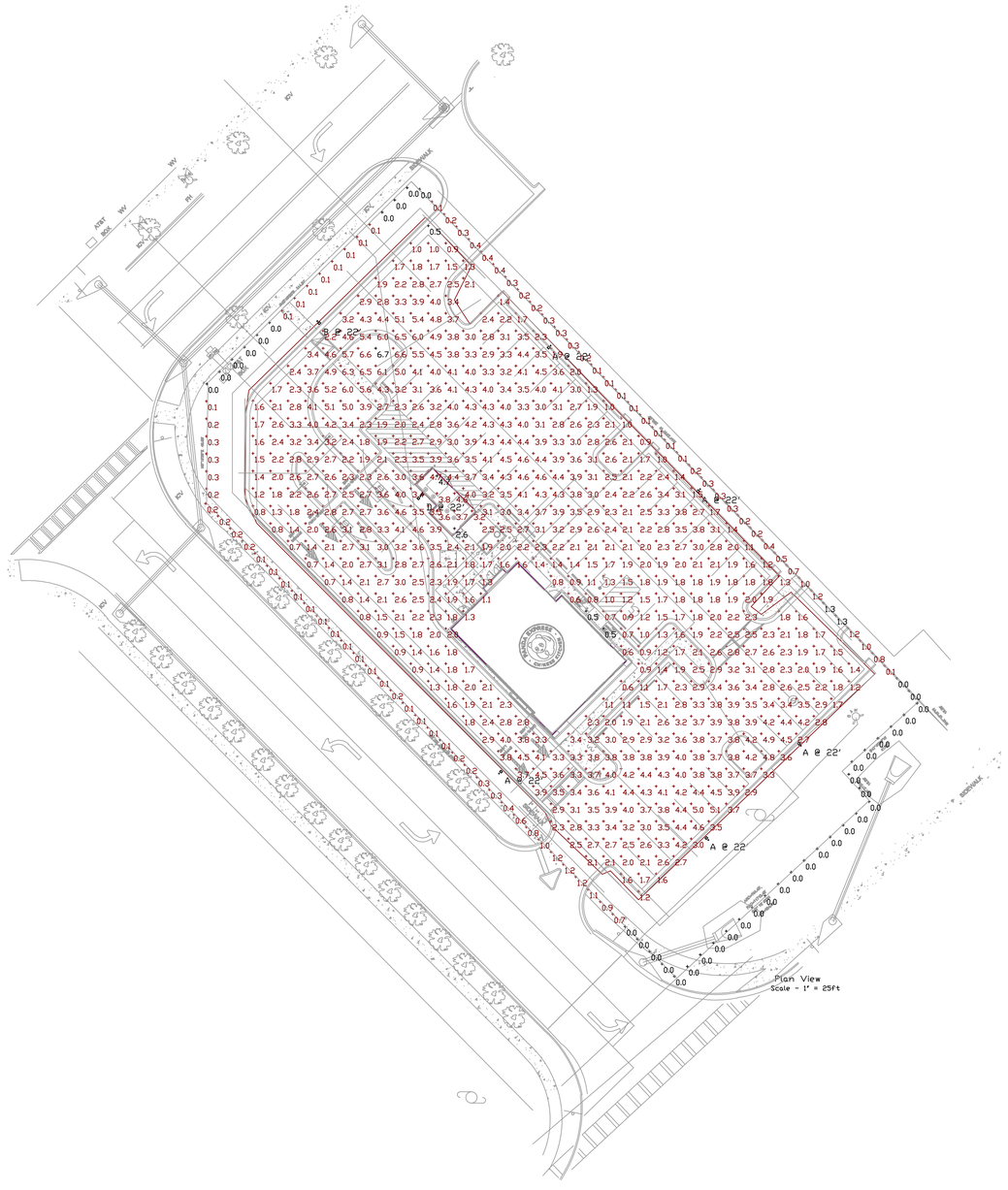
PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# E-105

SITE & EXTERIOR LIGHTING PLAN

TRUE WARM & WELCOME 2300 R6




Note
1. MOUNTING HEIGHT OF 22' (20'POLE)
2. CALCULATIONS TAKEN AT GROUND LEVEL
3. CONTACT VILLA LIGHTING- RYAN ZINSELMEIER- RYAN.ZINSELMEIER@VILLALIGHTING.COM- 314-531-2600

Statistics

| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
|---|---|---|---|---|---|---|
| CALC SUMMARY- PAVED SURFACE | + | 2.8 fc | 6.7 fc | 0.5 fc | 13.4:1 | 5.6:1 |
| CALC SUMMARY- PROPERTY LINE | + | 0.2 fc | 1.3 fc | 0.0 fc | N/A | N/A |
| TRASH ENCLOSURE | + | 3.7 fc | 4.7 fc | 2.6 fc | 1.8:1 | 1.4:1 |

Schedule

| Symbol | Label | Quantity | Catalog Number | Description | Filename | Lumens Per Lamp | Lumen Multiple r | Light Loss Factor | Wattage | Efficiency |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | 5 | SLM-LED-18L-SIL-FT-40-70CRI-IL | CONTACT RYAN ZINSELMEIER- 314-531-2600 | SLM-LED-18L-SIL-FT-40-70CRI-ILIes | 12046 | 1 | 1 | 148.5 | 100% |
| | B | 1 | SLM-LED-18L-SIL-3-40-70CRI-IL | CONTACT RYAN ZINSELMEIER- 314-531-2600 | SLM-LED-18L-SIL-3-40-70CRI-ILIes | 13767 | 1 | 1 | 148.5 | 100% |
| | D | 1 | SLM-LED-18L-SIL-FT-40-70CRI-IL | CONTACT RYAN ZINSELMEIER- 314-531-2600 | SLM-LED-18L-SIL-FT-40-70CRI-ILIes | 12046 | 1 | 1 | 297 | 100% |

SITE PHOTOMETRIC PLAN | 1

N.T.S. | E-106

PANDA EXPRESS CHINESE KITCHEN

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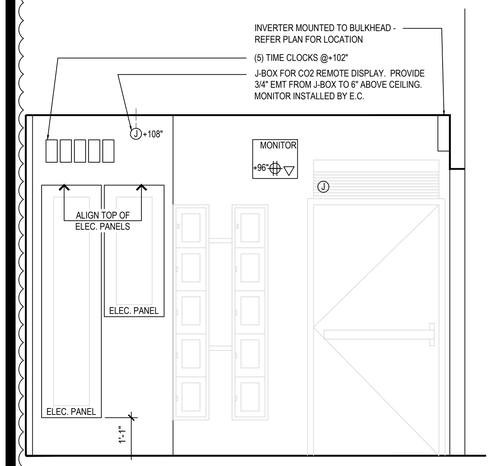
COVINGTON, GEORGIA 30014

# E-106

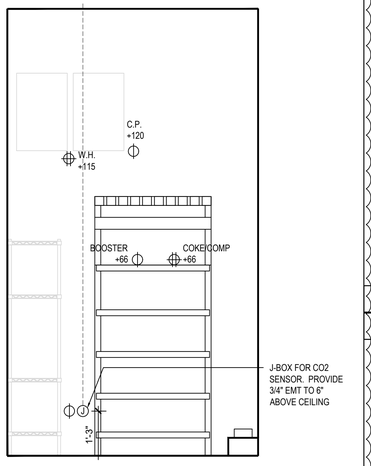
HOT - MEDIUM
SITE PHOTOMETRIC PLAN

TRUE WARM & WELCOME 2300 R6



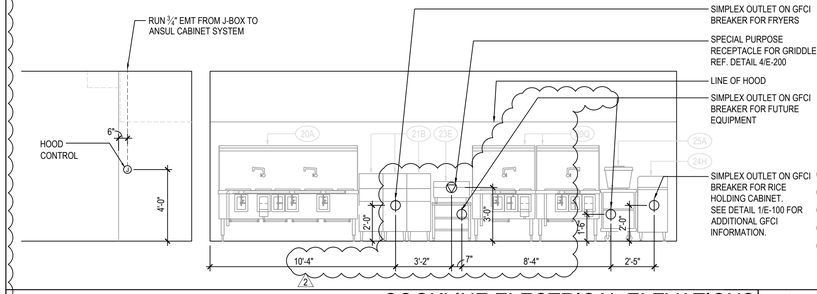

## BOH REAR WALL ELEVATION | 9

NOT TO SCALE | E-200



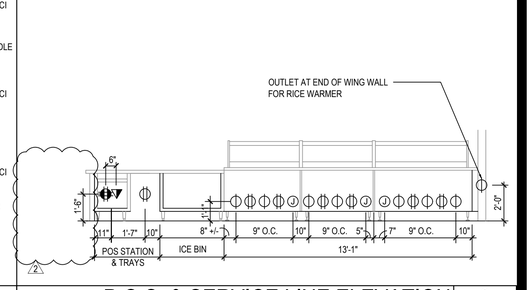

## C02 ELEVATION | 10

NOT TO SCALE | E-200



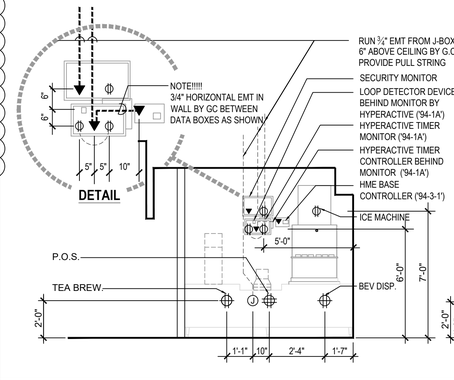

## COOKLINE ELECTRICAL ELEVATIONS | 6

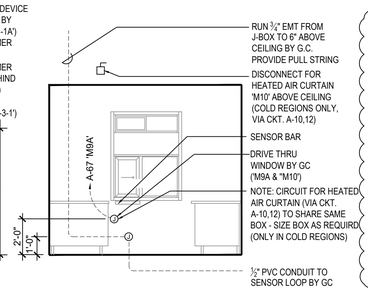
NOT TO SCALE | E-200

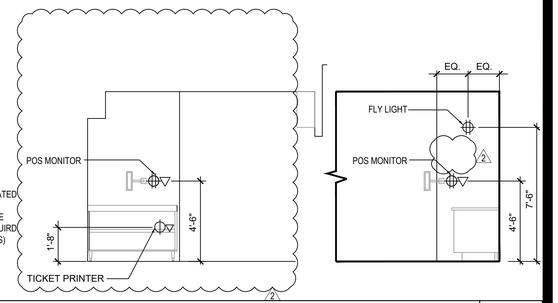



## P.O.S. & SERVICE LINE ELEVATION | 3

NOT TO SCALE | E-200

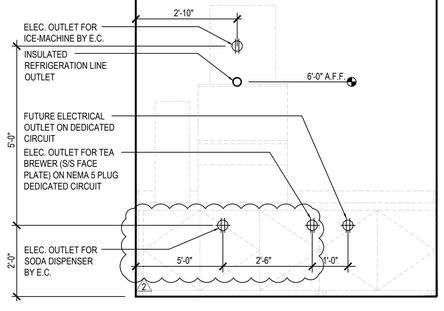


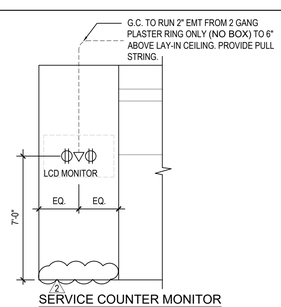

## DRIVE-THRU ELEVATIONS | 2

Scale: approx. 1/4"=1'-0" | E-200




## DRINK STATION ELEVATION | 5

NOT TO SCALE | E-200



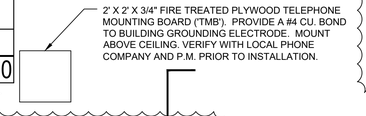

SERVICE COUNTER MONITOR

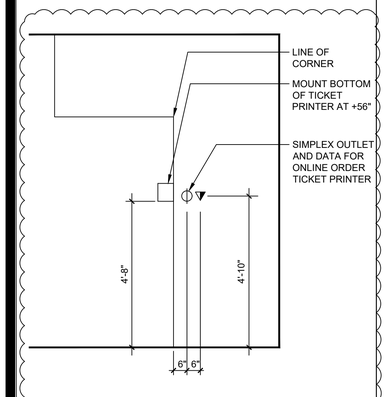
## MONITOR ELEVATION | 8

NOT TO SCALE | E-200

## NOT USED | 11

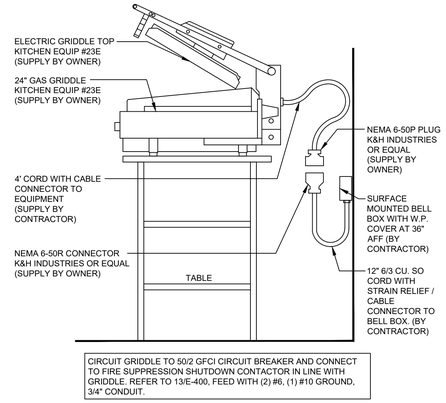
NOT TO SCALE | E-200




## TICKET PRINTER ELEV. | 7

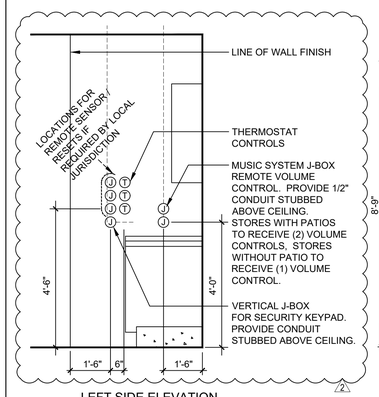
NOT TO SCALE | E-200



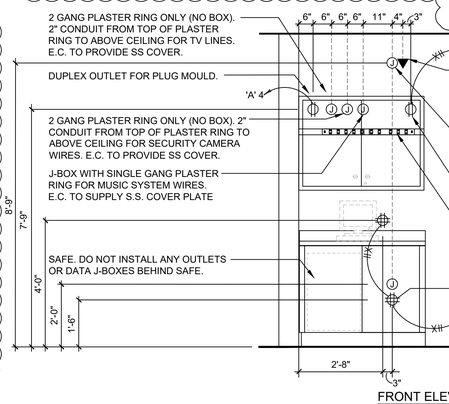

CIRCUIT GRIDDLE TO 50/2 GFCI CIRCUIT BREAKER AND CONNECT TO FIRE SUPPRESSION SHUTDOWN CONTACTOR IN LINE WITH GRIDDLE. REFER TO 13/E-400, FEED WITH (2) #6, (1) #10 GROUND, 3/4" CONDUIT.

## GRIDDLE 23E | 4

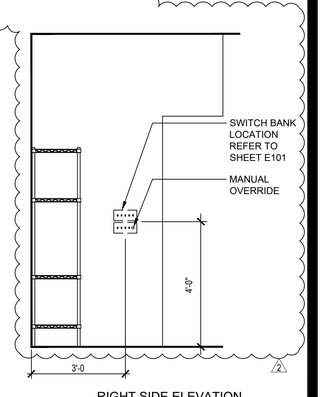
NOT TO SCALE | E-200




LEFT SIDE ELEVATION




FRONT ELEVATION




RIGHT SIDE ELEVATION

## MANAGER'S STATION/SWTICH BANK ELEVATIONS | 1

NOT TO SCALE | E-200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02.08.2022

GEORGIA REGISTERED No. PE039430 PROFESSIONAL ENGINEER JAISON P MORAS

JAISON MORAS, GA #039430

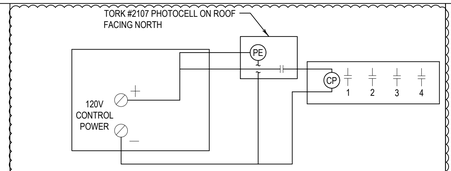
# PANDA EXPRESS

ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# E-200

ELECTRICAL ELEVATIONS

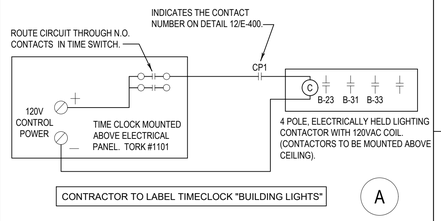
TRUE WARM & WELCOME 2300 R6

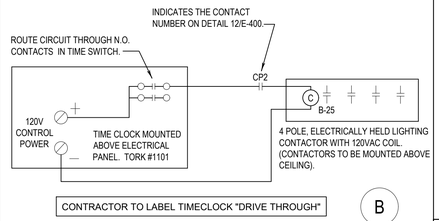


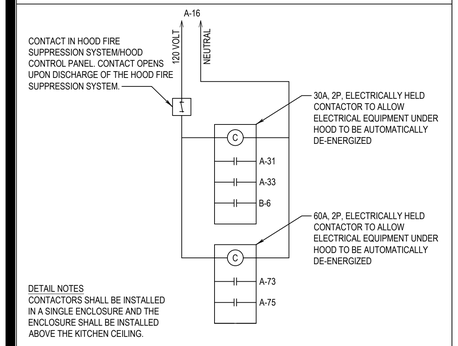

## PHOTOCELL/TIME CLOCKS 12

NOT TO SCALE E-400

2

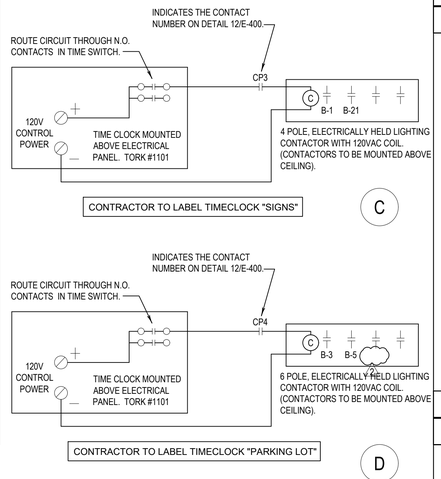


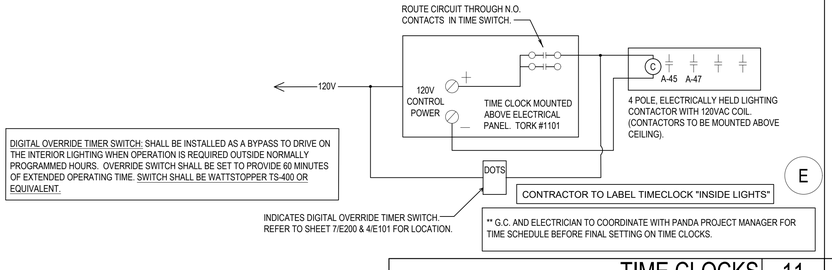




## FIRE SUPPRESSION SHUTDOWN 13

NOT TO SCALE E-400



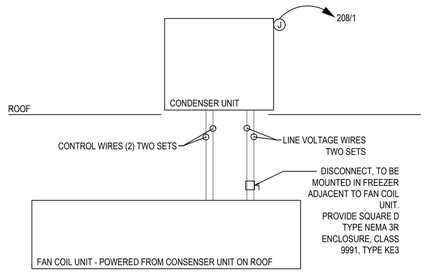

## TIME CLOCKS 11

NOT TO SCALE E-400



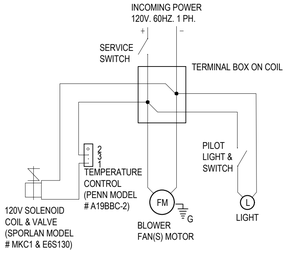

## FREEZER LTG & DOOR HTR WIRING DIAGRAM 10

NOT TO SCALE E-400



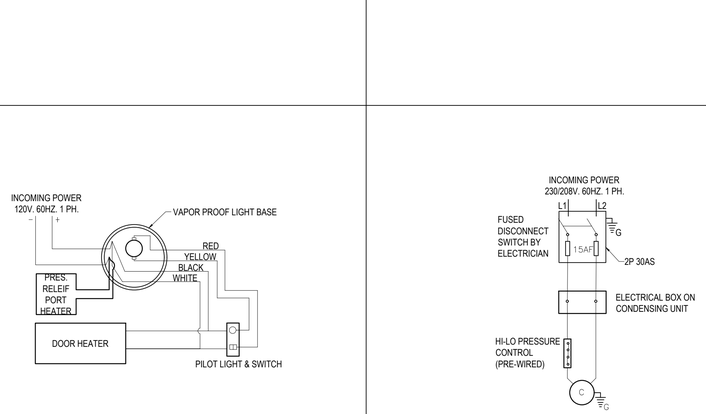

## FREEZER EVAPORATOR COIL 9

NOT TO SCALE E-400




## COOLER EVAPORATOR COIL 8

NOT TO SCALE E-400




## CONDENSING UNIT 7

NOT TO SCALE E-400

1. WIRING SHOULD BE DONE ACCORDING WITH NATIONAL AND LOCAL CODE.
2. CHECK VOLTAGE ON CONDENSING UNIT AND EVAPORATOR COIL BEFORE ANY WORK IS DONE.
3. SOLID LINES TO BE WIRED BY LICENSED ELECTRICIAN ON SITE. DOTTED LINES ARE MANUFACTURE PRE-WIRED.
4. ANY PENETRATIONS THROUGH BOX SHALL BE SEALED AIR TIGHT.

## WIC / WIF WIRING NOTES 6

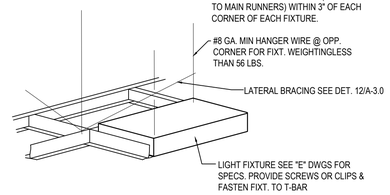
NOT TO SCALE E-400




NOTE: EXHAUST FAN TO OPERATE WITH KITCHEN LIGHTS TO REGULATE BUILDING PRESSURE.

## EXHAUST FAN CONTROL DIAGRAM 5

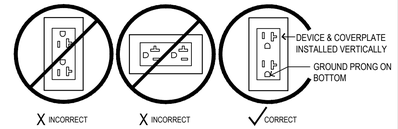
NOT TO SCALE E-400




## LIGHT FIXTURE DETAIL 4

NOT TO SCALE E-400

### DEVICE ORIENTATION

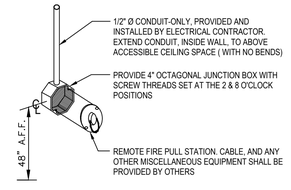



### DEVICE & COVERPLATE COLOR

| LOCATION | DEVICE COLOR | COVER PLATE COLOR | NOTES |
|---|---|---|---|
| DINING ROOM (WALLS) | VERIFY W/PX | VERIFY W/PX | VERIFY WITH PANDA PM PRIOR TO PURCHASE AND INSTALL |
| DINING ROOM (IN BULKHEAD ABOVE WINDOWS) | VERIFY W/PX | VERIFY W/PX | VERIFY WITH PANDA PM PRIOR TO PURCHASE AND INSTALL |
| DINING ROOM (WHEN IN CEILING) | BLACK | BLACK | @ SHOW WINDOW IN DARK CEILING (IF APPLICABLE) |
| RESTROOM | GREY | STAINLESS STEEL | -- |
| RESTROOM VESTIBULE | GREY | STAINLESS STEEL | -- |
| KITCHEN/SERVICE AREAS | GREY | STAINLESS STEEL | -- |

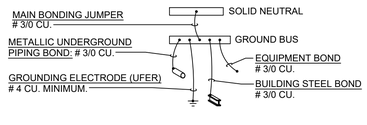
## DEVICE / RECEPTACLE SCHEDULE 3

NOT TO SCALE E-400




## ANSUL PULL STATION DETAIL 2

NOT TO SCALE E-400




## 'SES' GROUNDING DETAIL 1

NOT TO SCALE E-400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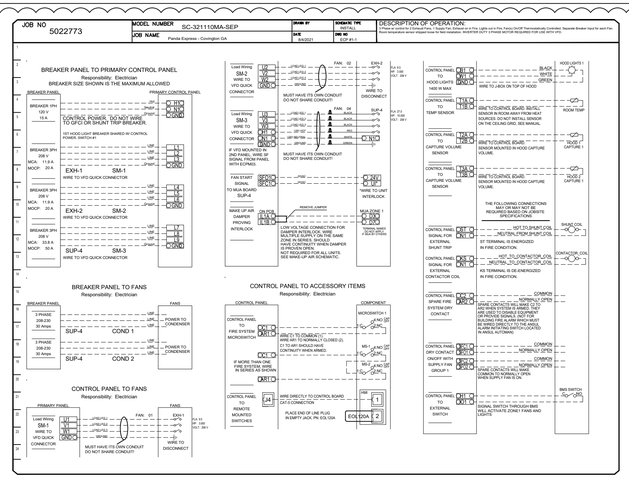
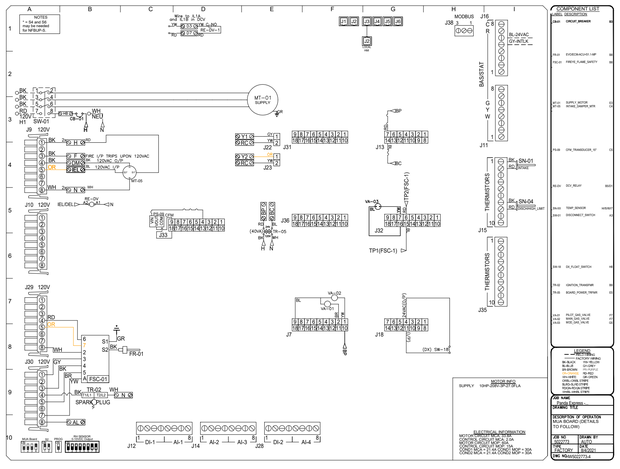
COVINGTON, GEORGIA 30014

# E-400

HOT - MEDIUM
ELECTRICAL DETAILS, DIAGRAMS

TRUE WARM & WELCOME 2300 R6


JOB NO 5022773
MODEL NUMBER SC-321110MA-SEP
JOB NAME Panda Express - Covington GA
DRAWN BY
SCHEMATIC TYPE
DESCRIPTION OF OPERATION:
DATE 5/4/2021
DWG NO
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED
BREAKER PANEL
PRIMARY CONTROL PANEL
CONTROL POWER, DO NOT WIRE TO UPCU OR SHUNT TRIP BREAKER.
HOT HOOD LIGHT BREAKER SHARED W/ CONTROL POWER SWITCH #1
EXH-1
SM-1
WIRE TO VFD QUICK CONNECTOR
EXH-2
SM-2
SUP-4
SM-3
BREAKER PANEL TO FANS
Responsibility: Electrician
FANS
SUP-4
COND 1
COND 2
CONTROL PANEL TO FANS
CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician
COMPONENT
MAKE UP AIR DAMPER INTERLOCK
LOW VOLTAGE CONNECTION FOR MAKE-UP AIR DAMPER. MULTIPLE SUPPLY VOLTAGE MAY BE PRESENT. DISCONNECT ALL HAVE CONTINUITY WHEN DAMPER IS CLOSED. NOT REQUIRED FOR ALL UNITS SEE MAKE-UP AIR SCHEMATIC
TERMINAL MARKS ARE FOR FACTORY USE ONLY
MUA ZONE 1
MUA ZONE 2
HOOD LIGHTS 1
HOOD LIGHTS 2
ROOM TEMP
SUCT. 1 CAPTURE 1
SUCT. 2 CAPTURE 2
SHUNT COIL
CONTACTOR COIL
MAKE UP AIR INTERLOCK
EXH FAN 1
EXH FAN 2
MUA FAN
SUPPLY FAN
BMS SWITCH
FACTORY WIRING SCHEMATIC
CIRCUIT BOARDS
DCV Rev. 2.12.00
HMI Rev. 2.12.00
COMPONENT LIST
LEGEND
FACTORY WIRING
FIELD WIRING
BK-BLACK
BL-BLUE
BR-BROWN
GR-GREEN
GY-GRAY
OR-ORANGE
PK-PINK
RD-RED
WH-WHITE
YW-YELLOW
GR/YW-GREEN/YELLOW
WIRE SIZE
JOB NAME
Panda Express
DRAWING TITLE
DESCRIPTION OF OPERATION
MUA BOARD (DETAILS TO FOLLOW)
JOB NO 5022773
DRAWN BY JEL/DSM
DATE 5/4/2021
DWG NO SCP #1-1
ELECTRICAL INFORMATION
MOUNTING SURFACE MUST BE FLAT
CONTROL CIRCUIT AT 60 V OR LESS
CONDUCTORS #14 AWG OR LARGER
CONDUCTORS #14 - #12 AWG COPPER ONLY - 90A
CONDUCTORS #11 - #10 COPPER ONLY - 50A
CONDUCTORS #9 - #1 OR CONDUCTORS MCM - 50A
SUPPLY 10HP 208V/3PH/60Hz
MOTOR INFO
UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC WIRING 16 AWG. ALL FACTORY DC WIRING 18 AWG.
CONTROL INPUT 120V H1=LINE, N1=NEUTRAL, 15A BREAKER. DO NOT CONNECT TO SHUNT TRIP BREAKER. SEE MAKE-UP AIR SCHEMATIC FOR ADDITIONAL REQ.
TERMINAL GAS USED FOR 120V POWERED GAS VALVES ONLY
NOTE: All items on ECPN02-23 are to be daisy chained from one component to the next, with ECS 12A at end of chain. Terminate ECS 120K in empty RJ45 port.
ECPN02-23 HMI
MOTOR CIRCUIT
DRY CONTACTS (SHOWN DE-ENERGIZED)
OA SUP
Panda Express
DESCRIPTION OF OPERATION
3 Phase air cooled Ind 3 Exhaust Fans, 1 Supply Fan, Controlled by Pro-Face and Pre-Rated Variable On/Off Thermostatic Controls Compressor Protection Provided by Pre-Rated Breaker/Disconnect
Optional Variable Frequency Drive (VFD) INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR VFD WITH ATS
ELECTRICAL INFORMATION
MOUNTING SURFACE MUST BE FLAT
CONTROL CIRCUIT AT 60 V OR LESS
CONDUCTORS #14 AWG OR LARGER
CONDUCTORS #14 - #12 AWG COPPER ONLY - 90A
CONDUCTORS #11 - #10 COPPER ONLY - 50A
CONDUCTORS #9 - #1 OR CONDUCTORS MCM - 50A
20 x 18 x 8.62 BOX
FACTORY WIRING SCHEMATIC CIRCUIT BOARDS DCV Rev. 2.12.00 HMI Rev. 2.12.00
COMPONENT LIST
LEGEND
FACTORY WIRING
FIELD WIRING
BK-BLACK
BL-BLUE
BR-BROWN
GR-GREEN
GY-GRAY
OR-ORANGE
PK-PINK
RD-RED
WH-WHITE
YW-YELLOW
GR/YW-GREEN/YELLOW
WIRE SIZE
JOB NAME
Panda Express
DRAWING TITLE
DESCRIPTION OF OPERATION
MUA BOARD (DETAILS TO FOLLOW)
JOB NO 5022773
DRAWN BY JEL/DSM
DATE 5/4/2021
DWG NO SCP #1-2


NOTES
1. For 3ph and 1ph, see wiring diagram for MAU/P-3.
MT-01 SUPPLY
SW-01
SW-02
SW-03
SW-04
SW-05
SW-06
SW-07
SW-08
SW-09
SW-10
SW-11
SW-12
SW-13
SW-14
SW-15
SW-16
SW-17
SW-18
SW-19
SW-20
SW-21
SW-22
SW-23
SW-24
SW-25
SW-26
SW-27
SW-28
SW-29
SW-30
SW-31
SW-32
SW-33
SW-34
SW-35
SW-36
SW-37
SW-38
SW-39
SW-40

## PANELBOARD NOTES ( )

(1) KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).

(2) TERMINATE GROUND ON ISOLATED GROUND BUS.

(3) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, CONTROLLED BY TIMECLOCK. REFER TO DETAILS, SHEET 11/E-400.

(4) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.

(5) REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.

(6) GFCI BREAKER

(7) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAITENANCE).

## PNL B — PANELBOARD

SERVES: WHOLE BUILDING
LOCATION: ELEC CABINET
MOUNTING: RECESSED

208Y/120V, 3PH, 4W
225A, MLO
REF 1-LINE AIC
EQUIPMENT GROUND BUS

| | DESCRIPTION | WIRE | BRKR | PL | KVA A | KVA B | KVA C | PL | BRKR | WIRE | DESCRIPTION | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LOGO 'SZ'/I.D. SIGN 'S1' (3) | 12 | 20 | 1 | 1.20 | 1.23 | | 2 | 20 | 10 | ICE MACHINE COND. '10J-S1' (4) | 2 |
| 3 | EXTERIOR LIGHTING - POLE (3,4) | 10 | 20 | 1 | | 0.87 | 1.23 | | | | | 4 |
| 5 | EXTERIOR LIGHTING - POLE (3,4) | 10 | 20 | 1 | | | 0.87 | 0.96 | 1 | 20 | 12 | 21G MJ345 FRYER (1,6) | 6 |
| 7 | TICKET PRINTER | 12 | 20 | 1 | 0.22 | 1.50 | | 1 | 20 | 10 | MENUBOARD (3,4) | 8 |
| 9 | BEV. DISPENSER 4AB (1,4) | 10 | 20 | 1 | | 1.12 | 1.00 | 1 | 20 | 10 | DR THRU ORDER SCREEN (4) | 10 |
| 11 | SECURITY/POS MONITORS | 12 | 20 | 1 | | | 0.18 | 1 | | | SPACE | 12 |
| 13 | HYPERACTIVE TIMER SYS. | 12 | 20 | 1 | 0.18 | 5.64 | | | | | | 14 |
| 15 | DINING TVS | 12 | 20 | 1 | | | 0.26 | 5.64 | 3 | 60 | 6 | DISHWASHER | 16 |
| 17 | SPARE | | 20 | 1 | | | | 5.64 | | | | | 18 |
| 19 | COKE CARBONATOR | 12 | 20 | 1 | 0.20 | 2.57 | | | | | | | 20 |
| 21 | MONUMENT SIGN (3,4) | 10 | 20 | 1 | | 0.50 | 2.57 | 3 | 30 | 10 | CU-2 | 22 |
| 23 | BUILDING LTS/EM (3) | 12 | 20 | 1 | | | 0.61 | 2.57 | | | | 24 |
| 25 | MENUBOARD (3,4) | 12 | 20 | 1 | 1.50 | 0.71 | | | | | | 26 |
| 27 | DR THRU ORDER SCREEN (4) | 12 | 20 | 1 | | 1.00 | 0.71 | 3 | 15 | 12 | EF-1 | 28 |
| 29 | RTU'S CONVENIENT RECPTS | 12 | 20 | 1 | | | 0.54 | 0.71 | | | | 30 |
| 31 | CANOPY LIGHTS (3) | 12 | 20 | 1 | 0.16 | 0.71 | | | | | | 32 |
| 33 | CANOPY LIGHTS (3) | 12 | 20 | 1 | | 0.16 | 0.71 | 3 | 15 | 12 | EF-2 | 34 |
| 35 | EXTERIOR MOTION SECURITY LED | 12 | 20 | 1 | | | 0.71 | 0.71 | | | | 36 |
| 37 | | | | | 2.57 | 2.40 | | | | | | 38 |
| 39 | CU-1 | 10 | 30 | 3 | | 2.57 | 2.40 | 3 | 30 | 10 | MAU-1 | 40 |
| 41 | | | | | | | 2.57 | 2.40 | | | | 42 |
| | TOTAL | | | | 20.79 | 20.74 | 18.47 | KVA | | | | |
| | PER NEC ARTICLE 220 | | | | 173 | 173 | 154 | AMPS | | | | |
| | TOTAL LOAD | | | | 59.99 | KVA | 167 | AMPS | | | | |
| | FEEDER LOAD | | | | 61.14 | KVA | 170 | AMPS | | | | |

## PNL A — PANELBOARD

SERVES: WHOLE BUILDING
LOCATION: ELEC. CABINET
MOUNTING: RECESSED

208Y/120V, 3PH, 4W
400A, MLO
REF 1-LINE AIC
EQUIPMENT GROUND BUS
SUB DNUORG DETALOSI

| | DESCRIPTION | WIRE | BRKR | PL | KVA A | KVA B | KVA C | PL | BRKR | WIRE | DESCRIPTION | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WIC DISPLAY LTS/MENUBRD/LED | 12 | 20 | 1 | 0.33 | 1.00 | | 1 | 20 | 12 | FAX '87', MGR '84C', COMP '49A' | 2 |
| 3 | HOOD CONTRL PNL 'M4' | 12 | 20 | 1 | | 0.50 | 0.60 | 1 | 20 | 12 | MUSIC, VCR, MONITOR | 4 |
| 5 | SERVICE POS 94, PTR '86A' (2,6) | 12 | 20 | 1 | | | 1.10 | 0.50 | 1 | 20 | 12 | COMPUTER RECPT '83A' (2) | 6 |
| 7 | D.THRU POS '94'/PTRS '86A' (2,6) | 12 | 20 | 1 | 1.10 | 0.13 | | 1 | 20 | 12 | 10J ICE MACHINE (6) | 8 |
| 9 | 95-4-S3', FLY LT,CO2 (1,6) | 12 | 20 | 1 | | 0.82 | 1.41 | 1 | 20 | 12 | CHF-25 'M10' AIR CURTAIN | 10 |
| 11 | RICE WARMER '54A' (1,4) | 12 | 20 | 1 | | | 0.11 | | 1 | 20 | | SPARE | 12 |
| 13 | REF. PREP TABLE '34D' (1) | 12 | 20 | 1 | 1.44 | 1.18 | | 1 | 20 | 12 | REAR DOOR - FLY FAN '48A' | 14 |
| 15 | REF. PREP TABLE '34D' (1) | 12 | 20 | 1 | | 1.08 | 0.20 | 1 | 20 | 12 | FIRE SUPPRESS SHUTDOWN | 16 |
| 17 | UNDER CTR FRZR '30L' (1,4) | 10 | 20 | 1 | | | 1.08 | 1.18 | 1 | 20 | 12 | SIDE DOOR - FLY FAN 'M8C' | 18 |
| 19 | BEV. DISP. '4AB' (1) | 12 | 20 | 1 | 1.12 | 1.30 | | | 1 | 20 | 10 | INDUCT WELL 3F, 3G (1,4,6) | 20 |
| 21 | SERVING COUNTER | 12 | 20 | 1 | | 0.18 | 1.30 | | 1 | 20 | 10 | INDUCT WELL 3F, 3G (1,4,6) | 22 |
| 23 | ICE TEA BREWER '9D' | 12 | 20 | 1 | | | 1.78 | 1.30 | 1 | 20 | 10 | INDUCT WELL 3F, 3G (1,4,6) | 24 |
| 25 | FOOD PROCESSOR 'S3' | 12 | 20 | 1 | 1.20 | 1.30 | | | 1 | 20 | 10 | INDUCT WELL 3F, 3G (1,4,6) | 26 |
| 27 | SPARE | | 20 | 1 | | 1.30 | | | 1 | 20 | 10 | INDUCT WELL 3F, 3G (1,4,6) | 28 |
| 29 | WALK-IN COOLER COIL '31M' (1) | 12 | 20 | 1 | | | 0.24 | 1.30 | 1 | 20 | 10 | INDUCT WELL 3F, 3G (1,4,6) | 30 |
| 31 | RICE HOLD CABINET '24H' (1,4,6) | 10 | 20 | 1 | 1.78 | 1.30 | | | 1 | 20 | 12 | INDUCT WELL 3F, 3G (1,4,6) | 32 |
| 33 | FUTURE CONTROLS (1,6) | 12 | 20 | 1 | | 0.20 | 0.84 | | 1 | 20 | 12 | RAD TOP HEATER '1S2B1' (1) | 34 |
| 35 | TIMECLOCK | 12 | 20 | 1 | | | 0.10 | 1.10 | 1 | 20 | 12 | RAD TOP HEATER '1S2B2' (1) | 36 |
| 37 | 48' BOOSTER OUTLET (6) | 12 | 20 | 1 | 0.86 | 1.10 | | | 1 | 20 | 12 | RAD TOP HEATER '1S2B3' (1) | 38 |
| 39 | HEAT WRAP '33-S7' (4) | 12 | 20 | 1 | | 0.50 | | | 1 | 20 | 12 | SPARE | 40 |
| 41 | FLY LIGHT (6) | 12 | 20 | 1 | | | 0.18 | 0.87 | 1 | 20 | 12 | THAWING CABINET | 42 |
| 43 | DUCT DETECTORS | 12 | 20 | 1 | 0.20 | 0.18 | | | 1 | 20 | 12 | FUTURE GREASE REMOVAL | 44 |
| 45 | LTG-FOOD PREP/EF-3 (4) | 10 | 20 | 1 | | 1.06 | | | 1 | 20 | | SPARE | 46 |
| 47 | LTG - DINING AREA | 12 | 20 | 1 | | | 0.22 | 1.40 | 2 | 15 | 12 | MICROWAVE - 55A (1) | 48 |
| 49 | SHOW WINDOW RECPTS | 12 | 20 | 1 | 0.72 | 1.40 | | | | | | | 50 |
| 51 | GENERAL RECPTS | 12 | 20 | 1 | | 0.72 | 0.18 | | 1 | 20 | 12 | FUTURE EQUIPMENT | 52 |
| 53 | EXTERIOR RECPTS | 12 | 20 | 1 | | | 0.36 | 0.18 | 1 | 20 | 12 | FUTURE EQUIPMENT | 54 |
| 55 | SPARE | | 20 | 1 | | 1.23 | | | 2 | 20 | 12 | ICE MACHINE COND. '10J-S' (1) | 56 |
| 57 | 10J ICE MACHINE (6) | 12 | 20 | 1 | | 0.13 | 1.23 | | | | | | 58 |
| 59 | GAS WATER HEATER - P2, GFCI (6) | 12 | 20 | 1 | | | 1.80 | 2.08 | 2 | 25 | 10 | WALK IN FRZR COND. '32-S1' (1.7) | 60 |
| 61 | ICE TEA BREWER '9D' (1,4) | 10 | 20 | 1 | 1.78 | 2.08 | | | | | | | 62 |
| 63 | LIGHTING - RESTROOMS | 12 | 20 | 1 | | 0.07 | 1.56 | | 2 | 20 | 12 | WALK IN COOL COND '31-S' (1) | 64 |
| 65 | SPARE | | 20 | 1 | | | | 1.56 | | | | | 66 |
| 67 | DT WINDOW 'M9A' AIR CURTAIN | 12 | 20 | 1 | 0.50 | 6.36 | | | | | | | 68 |
| 69 | DRIVE THRU HOT WELL CABINET | 6 | 50 | 1 | | 5.40 | 6.36 | | 3 | 50 | 6 | RTU-3 | 70 |
| 71 | SPARE | | 20 | 1 | | | | 6.36 | | | | (LENNOX) | 72 |
| 73 | ELECTRIC GRIDDLE - 23E (1,6) | 6 | 30 | 2 | 3.79 | 6.36 | | | | | | | 74 |
| 75 | | | | | | 3.79 | 6.36 | | 3 | 50 | 6 | RTU-2 | 76 |
| 77 | SPACE | | | 1 | | | | 6.36 | | | | (LENNOX) | 78 |
| 79 | SPACE | | | 1 | | 3.48 | | | | | | | 80 |
| 81 | INDUC DR WELL 3F, 3G (1,4,6) | 10 | 20 | 1 | | | 1.30 | 3.48 | | | | | 82 |
| 83 | INDUC DR WELL 3F, 3G (1,4,6) | 10 | 20 | 1 | | | | | 3 | 45 | 6 | RTU-1 | 84 |
| | | | | | | | 1.30 | 3.48 | | | | (LENNOX) | |
| | TOTAL | | | | 43.22 | 40.59 | 35.94 | KVA | | | | | |
| | PER NEC ARTICLE 220 | | | | 360 | 338 | 300 | AMPS | | | | | |
| | TOTAL LOAD | | | | 119.75 | KVA | 332 | AMPS | | | | | |
| | FEEDER LOAD | | | | 104.36 | KVA | 290 | AMPS | | | | | |

## SES — PANELBOARD

SERVES: WHOLE BUILDING
LOCATION: OUTSIDE (IN NEMA 3R ENCLOSURE)
MOUNTING: SURFACE

208Y/120V, 3PH, 4W
600A MCB
REF 1-LINE AIC
EQUIPMENT GROUND BUS
ISOLATED GROUND BUS

| | DESCRIPTION | WIRE | BRKR | PL | KVA A | KVA B | KVA C | PL | BRKR | WIRE | DESCRIPTION | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | 1 | 43.22 | | | | | | | 2 |
| 3 | PNLBD A (5) | | 400 | 3 | | 40.59 | | 3 | | | SPACE | 4 |
| 5 | | | | | | | 35.94 | | | | | 6 |
| 7 | | | | 1 | 20.79 | | | | | | | 8 |
| 9 | |S( B DBLNP | | 002 | 3 | | 47.02 | | 3 | | | ECAPS | 10 |
| 11 | | | | | | | | 18.47 | | | | | 12 |
| 13 | | | | 1 | | | | | | | | 14 |
| 15 | SPACE | | | 3 | | | | | 3 | | | SPACE | 16 |
| 17 | | | | | | | | | | | | | 18 |
| | TOTAL | | | | 64.01 | 61.33 | 54.41 | KVA | | | | | |
| | PER NEC ARTICLE 220 | | | | 533 | 511 | 453 | AMPS | | | | | |
| | TOTAL LOAD | | | | 179.74 | KVA | 499 | AMPS | | | | | |
| | FEEDER LOAD | | | | 168.80 | KVA | 469 | AMPS | | | | | |

## PANEL SCHEDULES | 1

NOT TO SCALE | E-601

1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
3. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
5. E.C. SHALL PROVIDE GROUNDING PER NEC ARTICLE 250, RE: 1/E400 FOR ADDITIONAL INFORMATION.

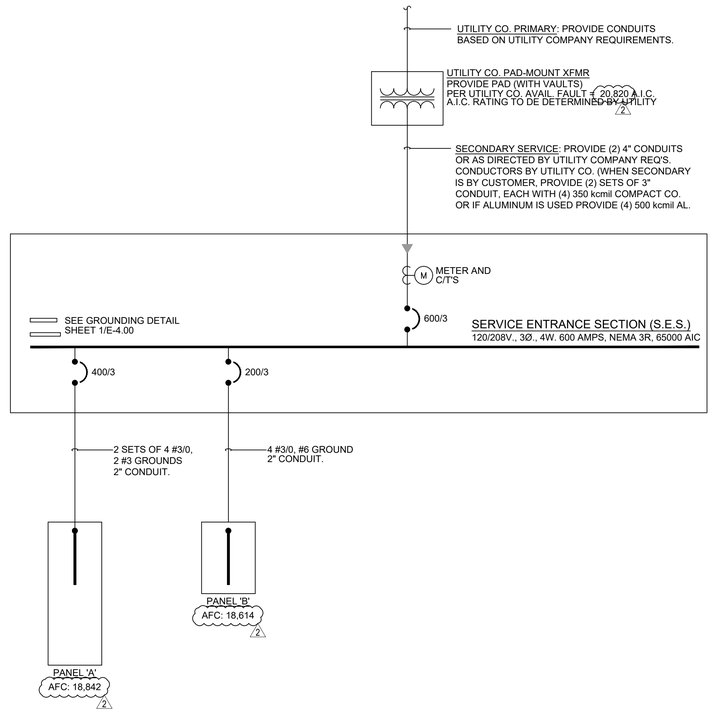
## SINGLE LINE DIAGRAM GENERAL NOTES | 3

NOT TO SCALE | E-601

1. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
3. A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN THE SES MAINS FUSES AND THE PANEL BRANCH CIRCUIT BREAKERS, NO SUBSTITUTIONS - UNLESS A FULLY RATED SYSTEM IS PROVIDED.
4. MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM; AT PANEL 'A' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 21,572 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", AT PANEL 'B' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 20,985 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"
6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. FUSES, CIRCUIT BREAKERS) HI-LIGHTING EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
7. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

## SERIES RATING NOTES | 4

NOT TO SCALE | E-601




## ELECTRICAL SERVICE ENTRANCE COORDINATION

NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE
SERVICE TO BUILDING ROUTED: TBD
AVAILABLE FAULT CURRENT: TBD
METERING LOCATION: EXTERIOR BUILDING

UTILITY COMPANY: XXXXXXXXXXXXXXXXX
NAME OF CONTACT: XXXXXXXXXXXXXXXX
PHONE: (XXX)-XXX-XXXX
EMAIL: XXXXXXXXXXX@XXXXX.com

| ITEMS | CONTRACTOR | | UTILITY COMPANY | |
|---|---|---|---|---|
| | FURNISHED BY | INSTALLED BY | FURNISHED BY | INSTALLED BY |
| PRIMARY CONDUCTORS | | | X | X |
| PRIMARY TERMINATIONS | | | X | X |
| PRIMARY CONDUIT(S) | X | X | | |
| PRIMARY TRENCH/BACKFILL | X | X | | |
| TRANSFORMER -(CONTRACTOR TO PROVIDE PAD PER/UTILITY REQ'S.) | | | X | X |
| SECONDARY CONDUCTORS (FROM XFMR TO UTILITY METER) | X | X | | |
| SECONDARY TERMINATIONS @ TRANSFORMER (GC PROVIDE LUGS) | | | X | X |
| SECONDARY TERMINATIONS @ SERVICE ENTRANCE | X | X | | |
| SECONDARY CONDUIT | X | X | | |
| SECONDARY TRENCH/BACKFILL | X | X | | |
| METERING CT'S - TO BE DETERMINED BY UTILITY | | | X | X |
| METER HOUSING - PROVIDED BY UTILITY TO CONTRACTOR AT NO CHARGE | X | X | | |

CONTRACTOR NOTE:
1. CONTRACTOR TO FIELD VERIFY AND COORDINATE THEIR RESPONSIBILITIES FOR ELECTRICAL SERVICE ENTRANCE WITH ELECTRICAL SERVICE PROVIDER; AND PROVIDE BID WITH ALL ASSOCIATED COSTS WITH NO ADDITIONAL COST TO OWNER.

DESIGNER NOTE:
1. ENGINEER/DESIGNER TO MODIFY ELECTRICAL COORDINATION FORM AS PER THEIR CONVERSATION WITH UTILITY PROVIDER.

## SINGLE LINE DIAGRAM | 2

NOT TO SCALE | E-601


PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288



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REVISIONS:

| | |
|---|---|
| 2 | 02.08.22 PROTOTYPE UPDATE |

ISSUE DATE:

| | |
|---|---|
| 1 | 09.01.2021 ISSUE FOR PERMIT |
| 2 | 02.08.2022 ISSUE FOR BID |

DRAWN BY: JEL/DSM

PANDA PROJECT #: - S8-22-D8518
C&P PROJECT #: - 2210604


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Architects Engineers Planners
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F (407) 661-9101
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Florida Corporate Certificate #AA C000526


02.08.2022

GEORGIA REGISTERED No. PE035826 PROFESSIONAL ENGINEER JAISON P MORAS

JAISON MORAS, GA #039430

PANDA EXPRESS
ALCOVY ROAD & GINKO LANE
COVINGTON, GEORGIA 30014

# E-601

PANELS, SINGLE LINE, LOAD CALC'S

TRUE WARM & WELCOME 2300 R6