		DESIGN DIRECTIVE BULLETIN (IMPLEMENTED IN CURRENT DRAWING SET)	DATE ISSUED	DESIGN DIRECTIVE BULLETIN (IMPLEMENTED IN CURRENT DRAWING SET)	DATE ISSUED	DESIGN DIRECTIVE BULLETIN (IMPLEMENTED IN CURRENT DRAWING SET)	DATE ISSUED
DAB.025	MICROWAVE OUTLET	06/18/2019	DAB.042	SERVICE COUNTER SOFFIT	03/19/2020		
DAB.026	SILIKAL FLOORING	07/03/2019	DAB.043	DRIVE-THRU SINK WALL CLEAN OUT	03/25/2020		
DAB.027	CABLE CONDUIT	08/26/2019	DAB.044	RESTROOM FAUCET SPECIFICATION	03/25/2020		
DAB.028	FINISH UPDATE	08/27/2019	DAB.045	PERIMETER TILE SPEC	03/13/2020		
DAB.029	SOUP WARMER UPDATE	09/03/2019	DAB.046	MANAGER STATION OUTLET	03/25/2020		
DAB.030	SECURITY MOTION SENSOR	11/06/2019	DAB.048	TOILET SEAT SPECIFICATION	04/2/2020		
DAB.032	REVISED COOLER DOOR SWING	12/06/2019	DAB.049	STORAGE SHED ROOF	05/07/2020		
DAB.034	METAL CANOPY SECTION/DETAILS	01/06/2020	DAB.050	LADDER	04/24/2020		
DAB.035	VESTIBULE CONFIGURATION	02/05/2020	DAB.052	PATIO FURNITURE	07/16/2020		
DAB.036	STOREFRONT SILL-BATT INSUL.	01/31/2020	DAB.051	OLO TICKET PRINTER	08/05/2020		
DAB.037	ADA RESTROOM SIGN LOCATION	01/31/2020	DAB.053	CORE DRILL TABLE HEIGHT	08/05/2020		
			DAB.054	DRINK STATION SOFFIT COLOR	08/05/2020		

PANDA EXPRESS

S8-21-D8059

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LANDSCAPE
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PEA GROUP
7927 NEMCO WAY, STE 115
BRIGHTON, MI 48116
T: 844.813.2929

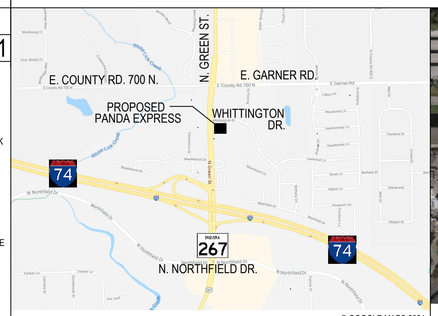
TEAM DIRECTORY

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. 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



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VICINITY MAP

Scale= NTS G-001

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KEY PLAN

Scale= NTS G-001

AFF	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
BV	BALL VALVE (FULL PORT)
B.O.	BOTTOM OF
C.	CONDUIT
CO	CONDUIT ONLY
CW	COLD WATER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EWH	ELECTRICAL WATER HEATER
EXT.	EXTERIOR
FOF	FACE OF FINISH
FOS	FACE OF STUD
F.S.	FLOOR SINK
G.C. OR GC	GENERAL CONTRACTOR
H.W.	HOT WATER
ID	INDIRECT DRAIN
INT.	INTERIOR
K.E.C.	KITCHEN EQUIP. CONTRACTOR
L.L.	LANDLORD
MC	MECHANICAL CONTRACTOR
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
O.C.	ON CENTER
PC	PLUMBING CONTRACTOR
RAR	RETURN AIR REGISTER
R.I.H.	ROUGH-IN HEIGHT
S.S.	STAINLESS STEEL
STL.	STEEL
STRUCT.	STRUCTURE, STRUCTURAL
T.O.	TOP OF
WCO	WASTE CLEAN OUT

ABBREVIATIONS

Scale= NTS G-001

D1 DOOR TYPE
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
1/A-2.0 INT. ELEVS
A A-2.0 SECTION
NEW DOOR
T TEMPERED GLAZING
A A-2.0 EXT. 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

2014 INDIANA BUILDING CODE (2012 IBC + 675 IAC 13 INDIANA AMENDMENTS)
2014 INDIANA FIRE CODE (2012 IFC + 675 IAC 22-2.5 INDIANA AMENDMENTS)
2014 INDIANA MECHANICAL CODE (2006 IMC + 675 IAC 18-1.6 INDIANA AMENDMENTS)
2014 INDIANA FUEL GAS CODE (2012 IFGC + 675 IAC 25 INDIANA AMENDMENTS)
2012 INDIANA PLUMBING CODE (2006 IPC + 675 IAC 16-1.4 INDIANA AMENDMENTS)
2012 INDIANA ELECTRICAL CODE (2009 NFPA + 675 IAC 17-1.8 INDIANA AMENDMENTS)
2010 INDIANA ENERGY CONSERVATION CODE (ASHRAE STANDARD 90.1 2007 + 675 IAC 17-1.8 INDIANA AMENDMENTS)
2014 INDIANA BUILDING CODE, CHAPTER 11 ACCESSIBILITY (ICC/ANSI A1117.2009 + 675 IAC 13-2.6-12 CH.11 INDIANA AMENDMENTS)

SITE INFORMATION

SITE AREA	46,174 SQ. FT.
LOT COVERAGE (FLOOR AREA RATIO)	0.052
LANDSCAPE PROVIDED	16,161 SQ. FT.
PARKING PROVIDED	42

PANDA EXPRESS

RESTAURANT AREA	2,381 S.F.
EMPLOYEES	3 EMPLOYEES / SHIFT (2 SHIFTS PER DAY)
INDOOR SEATING	70

OCCUPANT LOAD CALCULATION

INDOOR DINING	488 SQ. FT. / (15 / SQ. FT.) =	33
INDOOR DINING-STANDING	65 SQ. FT. / (5 / SQ. FT.) =	13
NDOOR DINING-FIXED	34 FIXED SEATS =	34
INDOOR DINING-BARRIER FREE	BARRIER FREE=	03
VESTIBULE	10 SQ. FT. / (5 / SQ. FT.) =	02
KITCHEN	703 SQ. FT. / (200 / SQ. FT.) =	04
TOILET/VESTIBULE	180 SQ. FT. / (0 / SQ. FT.) =	
STORAGE/MECHANICAL	291 SQ. FT. / (300 / SQ. FT.) =	01
	TOTAL OCCUPANT LOAD =	90

PLUMBING FIXTURES (TABLE 403.1 2006 IPC)

TYPE OF OCCUPANCY	WATER CLOSET		LAVATORY	
	MALE	FEMALE	MALE	FEMALE
RESTAURANT (A-2)	1 PER 75	1 PER 75	1 PER 200	1 PER 200
REQUIRED	1	1	1	1
PROVIDED	1	1	1	1
TOTAL OCCUPANCY = 90	MALE = 45		FEMALE = 45	

NOTE: SIGNS TO BE SUBMITTED UNDER SEPARATE PERMIT

BUILDING CODE ANALYSIS

OCCUPANCY CLASSIFICATION	GROUP A-2 (ASSEMBLY)
TYPE OF CONSTRUCTION	V-B
FIRE SPRINKLER	NO SPRINKLER

	PROVIDED	REQUIRED / ALLOWED
HEIGHT	24'-0"	40'-0"
STORY	1	1
AREA	2,381 SQ. FT.	6,000 SQ. FT.
OCCUPANT LOAD	90	-
EXITS REQUIRED	3	2
EGRESS WIDTH	120"	90 X 0.2 = 18"

INSULATION AND FENESTRATION CRITERIA

BUILDING ENVELOPE REQUIREMENTS OPAQUE ELEMENT, MAX U-FACTORS
ASHRAE 90.1-2007 TABLE 5.5-5 (per addendum g) - Climate zone 5

ASSEMBLY	MAX. U-FACTOR	PROPOSED MAX. U-FACTOR
ROOF (INSULATION ENTIRELY ABOVE DECK)	0.048	0.048 (INCLUDES MIN. R-20.6 c.i.)
WALL (WOOD FRAME AND OTHER)	0.064	0.029
SLAB (UNHEATED PERIMETER INSULATION)	0.73	0.73
PERIMETER INSULATION	N/R	N/R
GLAZING (40% MAX. OF ABOVE GRADE WALL)		
FIXED FENESTRATION	0.45	0.25
OPERABLE FENESTRATION	0.55	0.55
ENTRANCE DOORS	0.80	0.80
SHGC	0.40	0.39
OPAQUE DOORS SWINGING	0.70	0.160

CODE ANALYSIS

Scale= NTS G-001

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STORM WATER
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TOWN OF BROWNSBURG
200 S. GREEN ST.
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FIRE DEPARTMENT
STEVE JONES
BROWNSBURG FIRE TERRITORY
470 E. NORTHFIELD DR.
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BUILDING DEPARTMENT
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HENDRICKS COUNTY HEALTH DEPT.
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VECTREN
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ELECTRIC
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DUKE ENERGY
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MARTINSVILLE, IN 46151
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TELEPHONE COMPANY
GINA FOREMAN
AT&T DISTRIBUTION
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JURISDICTIONAL AUTHORITIES

Scale= NTS G-001

		STATE PERMIT SET
	GENERAL	
G-001	TITLE SHEET	●
G-002	SPECIFICATIONS	●
G-003	SPECIFICATIONS	●
G-004	SPECIFICATIONS	●
G-005	SCHEDULES	●
	CIVIL	
C01.0	COVER SHEET	●
C01.1	GENERAL NOTES	●
C02.0	TOPOGRAPHIC SURVEY	●
C02.1	DEMOLITION PLAN	●
C03.0	SITE PLAN	●
C03.1	DETAILED BUILDING SITE PLAN	●
C03.2	HARDSCAPE DETAILS I	●
C03.3	HARDSCAPE DETAILS II	●
C04.0	GRADING PLAN	●
C04.1	GRADING DETAIL PLAN	●
C05.0	S.E.S.C. PLAN	●
C05.1	S.E.S.C. DETAILS	●
C06.0	UTILITY PLAN	●
C06.1	UTILITY DETAIL PLAN	●
C06.2	STORM SEWER PROFILES	●
C07.1	DETAILS	●
C08.1	FLOOD ROUTING PLAN	●
L01.0	PRELIMINARY LANDSCAPE PLAN	●
L02.1	LANDSCAPE SPECIFICATIONS	●
L02.2	LANDSCAPE SPECIFICATIONS	●
	ARCHITECTURAL	
A -100	SITE PLAN ARCHITECTURAL	●
A -101	KITCHEN PLAN	●
A -101.1	EGRESS PLAN	●
A -102	ROUGH - IN PLUMBING PLAN	●
A -103	FLOOR PLAN	●
A -104	FINISH PLAN AND SCHEDULE	●
A -105	REFLECTED CEILING PLAN	●
A -106	SEISMIC CEILING DETAILS	●
A -107	ROOF PLAN	●
A -108	CONDENSER RACK DETAIL	●
A -109	FURNITURE PLAN	●
A -200	EXTERIOR ELEVATIONS	●
A -201	EXTERIOR ELEVATIONS	●
A -301	WALL SECTIONS	●
A -302	WALL SECTIONS	●
A -303	WALL SECTIONS	●
A -304	WALL SECTIONS	●
A -305	SECTIONS/DETAILS	●
A -400	ARCHITECTURAL DETAILS	●
A -400.1	ARCHITECTURAL DETAILS	●
A -401	ARCHITECTURAL DETAILS	●
A -402	ARCHITECTURAL DETAILS	●
A -403	ARCHITECTURAL DETAILS	●
A -404	ARCHITECTURAL DETAILS	●
A -405	ARCHITECTURAL DETAILS - DRIVE THRU	●
A -406	HANDICAPPED NOTES AND DETAILS	●
A -407	PATIO & TRASH ENCLOSURE DETAILS	●
A -408	WATER HEATER SHELF DETAILS	●
A -500	INTERIOR ELEVATIONS	●
A -501	INTERIOR ELEVATIONS	●
A -502	KITCHEN ELEVATIONS	●
A -503	ENLARGED RESTROOM PLANS AND ELEVATIONS	●
	STRUCTURAL	
S -000	STRUCTURAL NOTES & SPECIAL INSPECTIONS	●
S -001	NOTES & SPECIAL INSPECTIONS	●
S -100	FOUNDATION PLAN	●
S -101	ROOF FRAMING PLAN	●
S -200	FOUNDATION DETAILS	●
S -201	TYPICAL FOUNDATION DETAILS	●
S -300	FRAMING SECTIONS	●
S -301	TYPICAL FRAMING DETAILS & SECTIONS	●
S -302	TYPICAL FRAMING DETAILS & SECTIONS	●
	PLUMBING	
P -100	WATER AND GAS PLAN	●
P -101	WASTE & VENT PLAN	●
P -400	WATER/GAS/WASTE & VENT RISER DIAGRAMS	●
P -500	PLUMBING DETAILS	●
	MECHANICAL	
M-000	MECHANICAL NOTES, SPECIFICATIONS & SCHEDULES	●
M-100	HVAC FLOOR PLAN & HVAC ROOF PLAN	●
M-500	KITCHEN HOOD DETAILS	●
M-501	MECHANICAL DETAILS	●
SHEET 1	CAPTIVEAIRE HOOD DRAWING	●
SHEET 2	CAPTIVEAIRE HOOD DRAWING	●
SHEET 3	CAPTIVEAIRE HOOD DRAWING	●
SHEET 4	CAPTIVEAIRE HOOD DRAWING	●
SHEET 5	CAPTIVEAIRE HOOD DRAWING	●
SHEET 6	CAPTIVEAIRE HOOD DRAWING	●
SHEET 7	CAPTIVEAIRE HOOD DRAWING	●
	ELECTRICAL	
E-000	ELECTRICAL SYMBOLS, SPECIFICATIONS, NOTES	●
E-001	ELECTRICAL SCHEDULES	●
E-100	POWER FLOOR PLAN	●
E-101	LIGHTING FLOOR PLAN	●
E-101.1	CANOPY LIGHTING PLAN	●
E-102	SECURITY CAMERA PLAN	●
E-104	ROOF POWER PLAN	●
E-105	SITE & EXTERIOR LIGHTING PLAN	●
E-106	SITE PHOTOMETRIC PLAN	●
E-200	ELECTRICAL ELEVATIONS	●
E-400	ELECTRICAL DETAILS, DIAGRAMS	●
E-401	ELECTRICAL DETAILS, DIAGRAMS	●
E-601	PANELS, SINGLE LINE, LOAD CALC'S	●

SHEET INDEX

Scale= NTS G-001

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REVISIONS:

ISSUE DATE:

	STATE PERMIT SET	02/10/2021

DRAWN BY: AF

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI
REGISTERED
No. AR12000032
STATE OF
INDIANA
ARCHITECT
2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

G-001
TITLE SHEET

TRUE WARM & WELCOME 2300 R4

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 F.O.B. 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

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

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

3. 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.

4. 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.

5. 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
A. 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 G.C. 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

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

B. 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.

C. 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.

D. 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.

E. 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. MASONRY VENEER

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DIVISION 5 - METALS

1. STEEL FRAMING
REFERENCE STRUCTURAL DRAWINGS FOR STEEL FRAMING SPECIFICATIONS

2. MISCELLANEOUS METALS
CUSTOM FABRICATE FERROUS METAL ITEMS 16 GAUGE AND HEAVIER. REFER TO DRAWINGS AND DETAILS.

3. METAL STUDS
INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS OTHERWISE INDICATED. INSTALL CONTINUOUS TRACK - SIZED TO MATCH STUDS. SECURE TRACKS AS RECOMMENDED BY STUD MANUFACTURER FOR TYPE OF CONSTRUCTION INVOLVED.

SET STUDS PLUMB, EXCEPT AS NEEDED FOR DIAGONAL BRACING OR REQUIRED FOR NON-PLUMB WALLS OR WARPED SURFACES.

INSTALL SUPPLEMENTARY FRAMING, BLOCKING AND BRACING IN METAL FRAMING SYSTEM WHENEVER WALL OR PARTITIONS ARE INDICATED TO SUPPORT FIXTURES, EQUIPMENT, SERVICES, CASEWORK, HEAVY TRIM AND FURNISHINGS AND SIMILAR WORK.

SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY EITHER WELDING OR SCREW FASTENING AT BOTH INSIDE AND OUTSIDE FLANGES.

INSTALL HORIZONTAL STIFFENERS IN STUD SYSTEM AS REQUIRED, SPACE (VERTICAL DISTANCE) AT NO MORE THAN 4'-6" O.C.

4. EXTERIOR ALUMINUM AWNINGS

DIVISION 6 - WOOD AND PLASTICS

1. WOOD FRAME AND ROOF TRUSSES
REFERENCE STRUCTURAL DRAWINGS FOR SPECIFICATIONS OF WOOD FRAMING AND TRUSSES

2. FINISH CARPENTRY MATERIALS
QUALITY ASSURANCE:
PERFORM FINISH CARPENTRY WORK IN ACCORDANCE WITH AWI QUALITY STANDARDS, PREMIUM GRADE. USE FULL LENGTH PIECES, MITER ALL JOINTS, SHOULDER JOINT AT DOOR JAMBS. FILL ALL NAIL HOLES AND SAND SMOOTH.

WOOD TRIM INTERIOR: VERTICAL GRAIN, RED OAK SURFACE ALL EXPOSED EDGES.

EXPOSED WOOD AT EXTERIOR: RESAWN DOUGLAS FIR, NO KNOTS, STAIN GRADE.

3. SHEATHING
GENERAL: PROVIDE IN MAXIMUM LENGTHS AND WIDTHS AVAILABLE THAT WILL MINIMIZE JOINTS IN EACH AREA AND CORRESPOND WITH SUPPORT SYSTEM INDICATED.

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING:

A. CEMENTITIOUS BACKER UNITS: ASTM C 1325, TYPE A.
   1. THICKNESS: AS INDICATED ON DRAWINGS.

B. PLYWOOD WALL SHEATHING: REFER TO STRUCTURAL SPECIFICATIONS FOR GRADE AND TYPE.
   1. THICKNESS: AS INDICATED ON DRAWINGS.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

1. ENERGY COMPLIANCE

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

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

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

D. 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

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

B. ROOF INSULATION: REFER TO SECTION 3. "ROOFING SYSTEM" FOR ROOF INSULATION REQUIREMENTS.

C. PERIMETER FOUNDATION AND SLAB INSULATION: EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD. DOW; STYROFOAM BRAND SM OR EQUAL.

D. EXTERIOR STUD WALL ABOVE ROOF: GLASS-FIBER BLANKET, UNFACED: ASTM C 665, TYPE I: WITH MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84; PASSING ASTM E 136 FOR COMBUSTION CHARACTERISTICS.

E. EXTERIOR STUD WALL - INTERIOR SIDE: KRAFT FACED BATT INSULATION: ASTM C665, TYPE II, CLASS C PREFORMED GLASS FIBER BATT TYPE, KRAFT PAPER FACED ONE SIDE.
   1. PROVIDE SIZE AND THICKNESS TO MATCH STUD WALL CAVITY AND TO ACHIEVE A MINIMUM R-VALUE AS INDICATED ON THE DRAWINGS.
   2. PERM RATING: 1 PERM MAX. PER ASTM E96.
   3. MATERIALS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY OWENS CORNING OR EQUAL.

F. INSULATION FOR MISCELLANEOUS VOIDS:
   1. SPRAY POLYURETHANE FOAM INSULATION: ASTM C 1029, TYPE II, CLOSED CELL, WITH MAXIMUM FLAME-SPREAD AND SMOKE DEVELOPED INDEXES OF 75 AND 450, RESPECTIVELY, PER ASTM E-84.

3. ROOFING SYSTEM

A. WORK INCLUDED: FURNISH AND INSTALL ROOF INSULATION, ROOF MEMBRANE, BASE FLASHINGS, AND AUXILIARY COMPONENT MATERIALS.

B. MECHANICALLY FASTENED SINGLE-PLY MEMBRANE SYSTEM: POLYVINYL-CHLORIDE (PVC) SHEET ROOFING MECHANICALLY FASTENED TO ROOF INSULATION THAT HAS BEEN SECURED TO THE ROOF DECK.

C. PVC SHEET, ASTM D 4434/D 4434M, TYPE IV, FABRIC REINFORCED:
   1. MATERIALS: DURO-LAST (DL40) MEMBRANE AS MANUFACTURED BY DURO-LAST ROOFING, INC.
   2. THICKNESS: 40 MILS, NOMINAL.
   3. EXPOSED FACE COLOR: WHITE.

D. ROOF INSULATION GENERAL: PREFORMED ROOF INSULATION BOARDS MANUFACTURED BY PVC ROOFING MANUFACTURER, SELECTED FROM MANUFACTURER'S STANDARD SIZES SUITABLE FOR APPLICATION, OF THICKNESSES REQUIRED TO ACHIEVE MINIMUM R-VALUE INDICATED.

E. ROOF INSULATION: POLYISOCYANURATE BOARD INSULATION, ASTM C 1289, TYPE II, CLASS 1, GRADE 2, FELT OR GLASS-FIBER MAT FACER ON BOTH MAJOR SURFACES.
   1. PROVIDE MINIMUM R-VALUE AS DETERMINED BY THE LONG TERM THERMAL RESISTANCE (LTTR) METHOD.
   2. ROOF INSULATION: RIGID POLY-ISO INSULATION R-20 MINIMUM.

F. SOURCE LIMITATIONS: OBTAIN COMPONENTS INCLUDING ROOF INSULATION, FASTENERS, BASE FLASHINGS, AND AUXILIARY MATERIALS FOR ROOFING SYSTEM FROM SAME MANUFACTURER AS MEMBRANE ROOFING.

G. MATERIAL COMPATIBILITY: ROOFING MATERIALS SHALL BE COMPATIBLE WITH ONE ANOTHER AND ADJACENT MATERIALS UNDER CONDITIONS OF SERVICE AND APPLICATION REQUIRED.

H. INSTALLATION, GENERAL: INSTALL ROOFING OVER WOOD DECK OR ROOF INSULATION, WHERE APPLICABLE, ACCORDING TO ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS.
   1. COMPLETE TERMINATIONS AND BASE FLASHINGS AND PROVIDE TEMPORARY SEALS TO PREVENT WATER FROM ENTERING COMPLETED SECTIONS OF ROOFING SYSTEM AT THE END OF THE WORKDAY OR WHEN RAIN IS FORECAST. REMOVE AND DISCARD TEMPORARY SEALS BEFORE BEGINNING WORK ON ADJOINING ROOFING.
   2. PRIME ALL METAL FLASHING, ETC. THAT SHALL BE IN CONTACT WITH ROOFING MATERIALS.

I. INSTALLER QUALIFICATIONS: A QUALIFIED FIRM THAT IS APPROVED, AUTHORIZED, OR LICENSED BY ROOFING SYSTEM MANUFACTURER TO INSTALL MANUFACTURER'S PRODUCT AND THAT IS ELIGIBLE TO RECEIVE MANUFACTURER'S SPECIAL WARRANTY.

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

4. FLASHING AND SHEET METAL

A. 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.

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

C. 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.

D. 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

A. 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.

B. 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)

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

B. DESIGN REQUIREMENTS: CONFORM IN ALL RESPECTS TO MANUFACTURER'S SPECIFICATIONS FOR MATERIALS AND INSTALLATION.
   1. PROVIDE EIFS SYSTEM AND ACCESSORIES FROM SINGLE SOURCE.
   2. BASIS OF DESIGN: STO THERM CI ESSENCE SYSTEM
   3. FINISH: AS INDICATED ON DRAWINGS

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

D. MEET ALL LOCAL BUILDING CODE REQUIREMENTS.

E. 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.

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

G. COLOR SELECTION: AS INDICATED ON DRAWINGS

H. JOINTS: PER MANUFACTURER'S SPECIFICATION

I. GRADE CONDITION: DO NOT INSTALL EIFS BELOW GRADE.

J. INSTALLER QUALIFICATIONS: A QUALIFIED FIRM THAT IS APPROVED, AUTHORIZED, OR LICENSED BY ROOFING SYSTEM MANUFACTURER TO INSTALL MANUFACTURER'S PRODUCT AND THAT IS ELIGIBLE TO RECEIVE MANUFACTURER'S SPECIAL WARRANTY.

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

L. 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.

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

N. QUALITY ASSURANCE:
   1. 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.
   2. 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.
   3. 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.
   4. INSPECTIONS: PROVIDE INDEPENDENT THIRD PARTY INSPECTION WHERE REQUIRED BY CODE OR CONTRACT DOCUMENTS CONDUCT INSPECTIONS IN ACCORDANCE WITH CODE REQUIREMENTS AND CONTRACT DOCUMENTS.

O. DELIVERY STORAGE AND HANDLING: AS SPECIFIED BY MANUFACTURER.

P. COORDINATION: THE WORK IN THIS SECTION REQUIRES CLOSE COORDINATION WITH RELATED SECTIONS AND TRADES.
   1. PROVIDE SITE GRADING SUCH THAT EIFS TERMINATES ABOVE FINISHED GRADE A MINIMUM OF 6 INCHES (152MM) OR AS REQUIRED BY CODE.
   2. PROVIDE PROTECTION OF ROUGH OPENINGS BEFORE INSTALLING WINDOWS, DOORS AND OTHER PENETRATIONS THROUGH THE WALL AND PROVIDE SILL FLASHING.
   3. INSTALL WINDOW AND DOOR HEAD FLASHING IMMEDIATELY AFTER WINDOWS AND DOORS ARE INSTALLED.
   4. INSTALL DIVERTER FLASHING WHEREVER WATER CAN ENTER THE WALL ASSEMBLY TO DIRECT WATER TO THE EXTERIOR.
   5. INSTALL COPINGS AND SEALANT IMMEDIATELY AFTER INSTALLATION OF THE EIFS SYSTEM AND WHEN EIFS COATINGS ARE DRY.
   6. ATTACH PENETRATIONS THROUGH EIFS TO STRUCTURAL SUPPORT AND PROVIDE WATER TIGHT SEAL AT PENETRATIONS.

Q. EXECUTION:
   1. INSTALLATION: INSTALL EIFS IN COMPLIANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS.
   2. 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. WEATHER BARRIERS

A. 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 WITH 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 - REF. 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 6000 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 T (trowel)
MasterSeal HLM 5000 S (spray)
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 (18.66 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 1351 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 135 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

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

DIVISION 7 - CONTINUOUS INSULATION

11. 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 EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

STATE PERMIT SET	02/10/2021

DRAWN BY: AF

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI
REGISTERED
No. AR12000032
STATE OF INDIANA
ARCHITECT
2/10/21

NORR
ARCHITECTS ENGINEERS

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 ⅛" AT EACH VERTICAL EDGE AND AT TOP, ¼" AT BOTTOM, AND ⅛" IN 2" BEVEL AT LOCK EDGE. ½" CLEARANCE ABOVE FLOOR WITHOUT THRESHOLD, ¾" 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 ¼" MINIMUM DIAMETERS STEEL JAMB STUDS WITH ½" 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 ⅝"

HOOK SHAPED OR EXPANDING LAG DEAD BOLTS SHALL HAVE A MINIMUM THROW OF ¾"

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: REFERENCE HARDWARE SCHEDULE FOR SPECIFICATIONS.

KEYING: ALL CYLINDERS SHALL BE REMOVABLE CORE, MASTER KEYED TO INSTA-KEY SYSTEM. REFER 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:
REFERENCE 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 ⅝". UNITED STATES GYPSUM CO. SHEET-ROCK W/R TYPE "X" FOR FIRE RATED PANELS. SEAL ALL EXPOSED AND CUT EDGES PER MANUFACTURERS RECOMMENDATIONS.

USE ½" MOISTURE RESISTANT FIBERGLASS MAT TILE BACKER BOARD, DENS-SHIELD OR EQUIVALENT, IN ALL 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 25 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" O.C. EACH WAY.

FURRING CHANNELS - ½" HAT SHAPED.

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

SCREWS - METAL SUSPENSION, SYSTEM, TYPE "S-12" BUGLE, SELF-TAPPING, ¾" MINIMUM PENETRATION IN METAL FRAMING.

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

ACCESS PANELS: INRYCOMILCOR, (414) 383-4030; TYPE "M" WITH FLUSH SCREW DRIVE OPERATED PANELS 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: REFERENCE 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: 01. 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.

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.

A. 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.

B. 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.

C. APPLICATION:
GENERAL: 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:

5. 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

7. 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. G.C. 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 S.S. 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 S.S.

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 G.C. 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 ¾"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 INTERNATIONAL 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 (U.F.C. 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

EXTERIOR FINISH SCHEDULE

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

01-12-21

NO	MANUFACTURER	MFG#	COLOR	FINISH	NOTES
BR-1	BRICK TECH	SUMMIT BRICK COMPANY	216 ALASKAN	SIZE: MODULAR TEXTURE : SMOOTH	CONTACT: TYLER MEHL 248.548.0777 LMEHL@BRICKTECH.COM MORTAR: CUSTOM COLOR TO MATCH BRICK
BR-2	BRICK TECH	SIOUX CITY BRICK	EBONITE SATIN	SIZE: MODULAR TEXTURE : SMOOTH	CONTACT: TYLER MEHL 248.548.0777 LMEHL@BRICKTECH.COM MORTAR: SGS 94X IRON BLACK
EIFS-1	STO	STOTHERM ESSENCE SYSTEM	SW 7069 IRON ORE	FINE	EIFS ACCENT BAND & REAR FACADE ACCENT NOTE: IMPACT RESISTANT EIFS FROM GRADE TO 6'-0" ABOVE FINISHED GRADE
ST-1S	CORONADO STONE PRODUCTS	900 SERIES	#2 GREY	-	STONE CAP (3/8" VERTICAL JOINT - MORTAR TO MATCH STONE CAP)
ST-2S	CONCRETE DESIGNS, INC.	MODEL #: SI 147 S 23-5/8 DP	WI-10 LIMESTONE	-	SILL (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: PUTTY
CD-1	FIBERON	HORIZON	IPE	60% MATERIAL COVERAGE - RANDOM MIX (NON-GROOVE)	COMPOSITE DECKING - CONTACT: BILL ROSS @ 704-756-1980 EMAIL: Bill@fiberondecking.com
CD-2	FIBERON	HORIZON	TUDOR BROWN	40% MATERIAL COVERAGE - RANDOM MIX (NON-GROOVE)	COMPOSITE DECKING - CONTACT: BILL ROSS @ 704-756-1980 EMAIL: Bill@fiberondecking.com
PT-1	SHERWIN WILLIAMS	-	SW 6148 WOOL SKEIN	-	UNDERSIDE OF SOFFIT (ENTRY DOOR)
PT-2	SHERWIN WILLIAMS	-	SW 7067 CITYSCAPE	-	UNDERSIDE OF SOFFIT
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 ½"	-	-	1 / 8"	G-111	RESTROOM WALL
T-108	DALTILE	6" X 36" X 3/8" 9" X 36" X 3/8"	FOREST PARK TIMBERLAND FP97	-	1 / 8"	G-113	RR VESTIBULE & DINING ROOM WALLS CONTACT: NATIONAL ACCOUNT SUPPORT DESK 877.556.5728 (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
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	-	-	
M100	MATSINC 800.628.7462	NUWAY - 7/16" ALUM FOOT GRILLE	CHARCOAL	-	-	-	(2) 2' X 6' PIECES FOR A 4' X 6' OVERALL MAT SIZE IN VESTIBULE @ VESTIBULE STORES
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-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

* 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

FLOOR TILE TRANSITION TRIM: INSTALLED IN VESTIBULE
SCHLUTER SYSTEMS SCHIENE-R/AE125 (SATIN ANODIZED ALUMINUM)

TR102

* 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 G.C.
RG48	BOBRICK GRAB BAR, 48" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RG18	BOBRICK GRAB BAR, 18" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RM	BOBRICK CHANNEL FRAME MIRROR B-165 (1836) 18"X36" STAINLESS STEEL CHANNEL FRAME FURNISHED BY LOCKNET, INSTALLED BY G.C. 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 G.C.
RTR	BOBRICK SURFACE MOUNTED TRASH RECEPTACLE MODEL # B-277; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RHD	PAPER TOWEL DISPENSER FURNISHED BY PANDA EXPRESS, INSTALLED BY G.C.
RMT	BOBRICK MUTI-ROLL TOILET TISSUE DISPENSER B-2888 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RT	AMERICAN STANDARD CADET RIGHT HEIGHT ELONGATED TOILET 2467.016 TLT, 4142.600 TANK, AMERICAN STANDARD #5321.110 SEAT, COLOR: WHITE. TRIP TO BE ON OPEN SIDE. FURNISHED AND INSTALLED BY G.C.
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 G.C.
RD	BOBRICK SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL B-254 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RH	BOBRICK SURFACE-MOUNTED CLOTHES HOOK AND BUMPER B-233 SOLID ALUMINUM CASTING, MATTE FINISH, INSIDE OF RESTROOM DOORS FURNISHED BY LOCKNET, INSTALLED BY G.C.

* INSULATE ALL PIPES (TRAP & HOT WATER) AT ACCESSIBLE LAVATORIES.

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 T109 TILE W102 WALL COVERING	C1 2' X 2' ARMSTRONG, SEPIA #PN91311 C3 GYP BOARD W/ PAINT P103
101 SERVING AREA	S1 PLAIN 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 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 S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	WP3 S.S. BEHIND COOK LINE WP1 FRP PANEL	C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS
104 KITCHEN PREP.	S1 PLAIN 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 S2 ABRASIVE IN HIGH TRAFFIC AREAS	S.S. / ALUMINUM WITH 3/8" RADIUS	EXT S.S. INT ALUMINUM GALVANIZED S.S.	ALUMINUM GALVANIZED STAINLESS STEEL
105A WALK-IN FREEZER	GALVANIZED STAINLESS STEEL S1 SILIKAL UNDER WIF SUBFLOOR	S.S. / ALUMINUM WITH 3/8" RADIUS	EXT S.S. INT ALUMINUM GALVANIZED S.S.	ALUMINUM GALVANIZED STAINLESS STEEL
106 MEN'S ROOM	T200 24" X 24" TILE	SCHLUTER	T108 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
107 WOMEN'S ROOM	T200 24" X 24" TILE	SCHLUTER	T108 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
108 VESTIBULE	T200 24" X 24" TILE	T109 6" X 36" TILE	P104 PAINT GYB BOARD T109 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
109 STORAGE ROOM	T200 24" X 24" TILE	T109 6" X 36" TILE	WP1 FRP PANEL	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
110 EXTERIOR STORAGE	SEALED CONCRETE, SMOOTH FINISH	-	WP1 FRP PANEL	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
111 ENTRY VESTIBULE	T200 24" X 24" TILE M100 4' X 6' MAT	T109 6" X 36" TILE	P104 PAINT T109 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT

DOOR & HARDWARE SCHEDULE

INSTALLED AND FURNISHED BY. G.C. 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
JERRY JACOBS, PROJECT MANAGER
800-887-4307 EXT. 220 PHONE
jerryj@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
ROB OWEN, DIR. BUSINESS DEVELOPMENT; RobO@locknet.com; 606-748-2065

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

							HARDWARE							HINGE		STOP		ACCESSORIES					REMARKS
NO.	DOOR MATERIAL	SIZE	FRAME	FACE/EDGE	THK.	CORE	LITE	RATE	PASSAGE	LOCKSET	PRIVACY	S.F. PULL	S.F. PUSH	PANIC	BUTT	CONT.PIANO	FLOOR	WALL	THRESHOLD	LATCH GUARD	DETEX ALARM	SILENCERS	KICKPLATE	CLOSER	
D1	ALUMINUM STOREFRONT	3'-0" X 7'-0"	ALUM.	DARK BRONZE ANODIZED ALUM.	1 ¾"	HOLLOW	GLASS	-		●		●		●		●	●	●		●				●	
D2	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	S.C. WOOD	(2) 2'-0" X 7'-0"	H. MTL.	PLASTIC LAMINATE PRE-FINISHED	1 ¾"	SOLID	-	-	●						●		●					●	●	●	KICKPLATE ON VESTIBULE SIDE OF DOORS
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.	-	-		●						●				●	●				WITH LOUVERED VENT & BUG SCREEN
D7	HOLLOW METAL	3'-0" X 7'-0"	H. MTL.	PAINTED	1 ¾"	INSUL.	-	-		●						●				●	●				WITH LOUVERED VENT & BUG SCREEN
D1b	ALUM. STORE. VESTIBULE	3'-0" X 7'-0"	ALUM.	DARK BRONZE ANODIZED ALUM.	1 ¾"	HOLLOW	GLASS	-					●	●		●	●	●						●	

WALL SCHEDULE

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

NO.	DESCRIPTION
XW1	3-5/8" 20GA. METAL STUD WALL W/ ⅝" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
XW2	3-5/8" 20GA. METAL STUD WALL W/ ⅝" TYPE "X" GYP. BOARD ON ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
XW3	(2) 3-5/8" 20GA. METAL STUD WALLS W/ ⅝" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
XW4	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" O.C.
XW5	6" 20GA. METAL STUD WALL W/ ⅝" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
XW6	6" 20GA. METAL STUD WALL W/ ⅝" TYPE "X" GYP. BOARD ONE SIDE (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
XW7	6" 20GA. METAL STUD LOW WALL W/ ⅝" TYPE "X" GYP. BOARD BOTH SIDES. PROVIDE 3-½" KNEE-WALL BRACE/POST @ CORNERS AND @ 48" O.C
XW8	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. G.C. UNLESS NOTED OTHERWISE

NO.	MANUFACTURER	DESCRIPTION	MFG #	COLOR FINISH	REMARK
WP1	CRANE COMPOSITES INC.	F.R.P. THICKNESS: .075	LBCS.14	#636 (GRAY), SMSM	CONTACT: LINDA RUSE 310.857.9036
WP2	-	S.S. PANEL (22 GA)	-	BRUSHED FINISH	FURNISHED BY PX, INSTALLED BY G.C.
WP3	-	S.S. PANEL (22 GA)	-	DIAMOND PATTERN FINISH	FURNISHED BY PX, INSTALLED BY G.C.
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. G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	PRODUCT	MFG #	STAIN / COLOR	FINISH	REMARK
QZ-2	NOT USED					
QZ-4	CORIAN	ARTIFICIAL QUARTZ	-	PORTORO	POLISHED	SERVICE COUNTER & DRINK STATION PROVIDED BY PX, INSTALLED BY G.C.

INTERIOR PAINT SCHEDULE

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

NO	MANUFACTURER	MFG #	COLOR	FINISH	REMARK
P9Ab	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, SERVICE LINE SOFFIT
P102	NOT USED				
P103	SHERWIN-WILLIAMS	SW 7032	WARM STONE	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	DROPPED SOFFITS
P104	SHERWIN-WILLIAMS	SW 2850	CHELSEA GRAY	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	DINING RM. WALLS, RESTROOM VESTIBULE WALLS
P106	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 SERVICE COUNTER SOFFIT

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:

STATE PERMIT SET	02/10/2021

DRAWN BY: AF

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI
REGISTERED
No. AR12000032
STATE OF INDIANA
ARCHITECT
2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

G-005

SCHEDULES

TRUE WARM & WELCOME 2300 R4

CONSTRUCTION PLANS FOR

PANDA EXPRESS

1395 N. GREEN STREET

NORTHEAST 1/4 OF SECTION 02, T16N, R01E
BROWNSBURG, HENDRICKS COUNTY, INDIANA

GOVERNING AGENCIES & UTILITY CONTACTS

MUNICIPALITY/ZONING

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BROWNSBURG, IN 46112
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EMAIL: mcorrea@brownsburg.org

ELECTRIC

DUKE ENERGY
390 N MAIN STREET
MARTINSVILLE, IN 46151
CONTACT: TIM UMBAUGH
PHONE: (812) 349-4012
EMAIL:timumbaugh@duke-energy.com

WATER & SEWER

TOWN OF BROWNSBURG
200 S GREEN ST
BROWNSBURG, IN 46112
CONTACT: JIM WAGGONER GRINER
PHONE: (317) 852-1113
EMAIL: jwaggoner@brownsburg.org

GAS

VECTREN
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MUNCIE, IN 47302
CONTACT: JON EASTHAM
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TELEPHONE

AT&T DISTRIBUTION
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OWNER/APPLICANT/DEVELOPER

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CIVIL ENGINEER

PEA GROUP
2430 ROCHESTER COURT, STE. 100
TROY, MI 48083-1872
CONTACT: LESLIE ACCARDO
PHONE: 248.509.7258
EMAIL: LACCARDO@PEAGROUP.COM

ARCHITECT

NORR
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CONTACT: DINA MEKAWY
PHONE: (313) 324-3085
EMAIL: Dina.Mekawy@norr.com

LANDSCAPE ARCHITECT

PEA GROUP
7927 NEMCO WAY, STE. 115
BRIGHTON, MI 48116
CONTACT: JANET EVANS
PHONE: 844.813.2949
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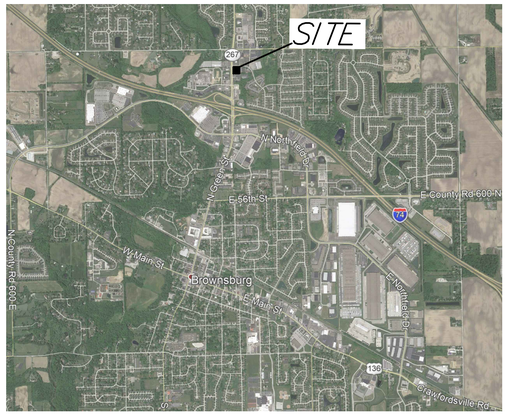
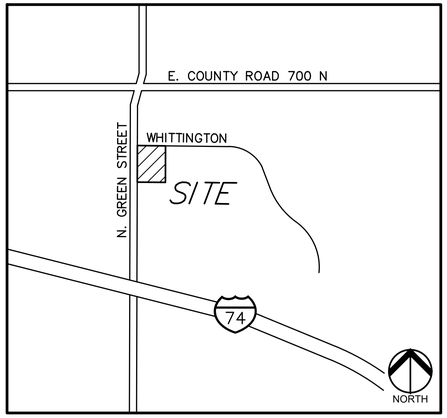


LOCATION PLAN
NO SCALE



VICINITY MAP
NO SCALE

INDEX OF DRAWINGS

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C04.0	GRADING PLAN
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PANDA EXPRESS STANDARD NOTES:

1. THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON CONSULTANTS, INC. DATED NOVEMBER 16, 2020 AND ANY SUBSEQUENT ADDENDUMS IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND THE 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, DE-WATERING, 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. CONTRACTORS SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREAS WITHIN LIMITS OF WORK, INCLUDING POTENTIAL OFFSITE AREAS. COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.

LEGAL DESCRIPTION
(Per Fidelity National Title Commitment No. 102000437, dated July 9, 2020)

PARCEL ID 32-07-02-210-002.000-026
Land in the Brown Township, Hendricks County, Indiana, described as follows:

Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana.

EXCEPT:
A part of Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana, more particularly described as follows:

Beginning at the Northwest corner of said Lot 2; thence North 88 degrees 42 minutes 36 seconds East 27.62 feet along the North line of said Lot 2 to a point; thence South 35 degrees 00 minutes 35 seconds West 46.48 feet to a point, the West line of said Lot 2; thence North 01 degrees 27 minutes 04 seconds West 37.46 feet along the West line of said Lot 2 to the Point of Beginning. Containing 517 square feet or 0.012 acre, more or less.

BENCHMARKS
(GPS DERIVED – NAVD88)

BM #300
HYDRANT LOCATED ON THE EAST SIDE OF N. GREEN STREET, APPROX. 90'± SOUTHWEST FROM THE NORTHWEST BUILDING CORNER OF 1375 N. GREEN ST.
ELEV. – 889.33

BM #301
HYDRANT LOCATED AT THE NORTHEAST CORNER OF N. GREEN STREET AND WHITTINGTON DRIVE.
ELEV. – 891.34

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Rosemead, California
91770
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REVISIONS:

ISSUE DATE:

BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250

RACHEL LYNN SMITH
REGISTERED
No. 12000492
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PEA GROUP
t: 844.813.2949
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PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

COVER SHEET

C01.0

TRUE WARM & WELCOME 2300 R4

GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

1. ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
2. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
3. STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
5. REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC.
6. REFER TO SHEET L01.0 FOR TREE PROTECTION DETAILS.
7. THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
10. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
11. ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY.
12. REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
13. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
14. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

1. ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, INDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
2. THE CONTRACTOR SHALL NOTIFY THE TOWN OF BROWNSBURG ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
4. ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL CITY INSPECTION FEES.
5. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
6. CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
7. ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
8. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, TOWN AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.

PAVING NOTES:

1. IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
2. PROVIDE EXPANSION JOINTS AND JOINT SEALANT AT TWO "END-OF-RADIUS" LOCATIONS (OPPOSITE SIDES AT EACH LONG END) OF CONCRETE CURB ISLANDS.
3. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
4. CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
5. PAVEMENT MIX DESIGNS SUBMITTED FOR REVEW BY THE ENGINEER SHALL BE IN ACCORDANCE WITH ALL LOCAL/MUNICIPAL CODES, THE TOWN OF BROWNSBURG CONSTRUCTION STANDARDS AND THE INDIANA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS (INDOTSS)
6. COARSE AGGREGATES SHALL COMPLY WITH INDOTSS, SECTION 904.03. FINE AGGREGATES SHALL COMPLY WITH INDOTSS, SECTION 904.02. ALL OTHER AGGREGATE BASE SPECIFICATIONS SHALL BE PER INDOTSS, SECTION 301.
7. THE HMA BITUMINOUS CONCRETE BINDER AND SURFACE COURSE SHALL COMPLY WITH INDOTSS, SECTION 402.
8. PCC PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH INDOTSS, SECTION 502 AND 503.
9. CONCRETE PAVEMENT JOINTING – UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION;
   - 9.1. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE PROVIDE A MINIMUM ½"EXPANSION JOINT WITH SEALANT, THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A ½INCH TO ALLOW FOR SEALING
   - 9.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT) PROVIDE 5/8"DOWELS EVERY 30"CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
   - 9.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM ½"EXPANSION JOINT WITH SEALANT
   - 9.4. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED CURBING PROVIDE A MINIMUM ½"EXPANSION JOINT WITH SEALANT
   - 9.5. CONTROL LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS;
     - 9.5.1. 6–INCH THICK CONCRETE PAVEMENT: 12' X 12'
     - 9.5.2. 8–INCH THICK CONCRETE PAVEMENT: 15' X 15'
   - 9.6. IRREGULAR–SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
   - 9.7. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
10. CONCRETE CURBING JOINTING – UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION;
    - 10.1. WHERE PROPOSED CONCRETE CURBING ABUTS A STRUCTURE PROVIDE A MINIMUM ½"EXPANSION JOINT WITH SEALANT
    - 10.2. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM ½"EXPANSION JOINT WITH SEALANT
    - 10.3. WHERE PROPOSED CONCRETE ABUTS EXISTING CURBING PROVIDE A MINIMUM ½"EXPANSION JOINT WITH SEALANT
    - 10.4. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT)
      - 10.4.1. CARRY THE REBAR CONTINUOUSLY BETWEEN POURS
      - 10.4.2. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY THEN TIE TWO PIECES OF REBAR PER THE LATEST INDOT SPECIFICATIONS
    - 10.5. CONTROL JOINTS SHALL BE PLACED A MAXIMUM 10' CENTER TO CENTER AND AT ALL RADIUS RETURNS

GENERAL GRADING AND EARTHWORK NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.
2. ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
3. THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN THE SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE SITE BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE CONTRACTOR.
4. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION. AN EROSION CONTROL PERMIT MUST BE SECURED FROM THE TOWN OF BROWNSBURG PRIOR TO CONSTRUCTION.
5. ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION AND REPORT.
6. REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.
7. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED IN ACCORDANCE WITH THE LANDSCAPE PLANS. PROVIDE A MINIMUM OF 4" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT, UNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE OF INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.
9. ON–SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON–SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
10. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
11. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
12. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.
13. ANY SUB–GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

GENERAL UTILITY NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWN OF BROWNSBURG.
2. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY–FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH CLASS II SAND COMPACTED TO AT LEAST NINETY–FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D–1557). ALL OTHER TRENCHES TO BE COMPACTED TO 80% OR BETTER.
3. WHENEVER EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.
4. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. CONTRACTOR TO FIELD VERIFY UTILITIES.
5. THE CONTRACTOR MUST COORDINATE TO ENSURE ALL REQUIRED PIPES, CONDUITS, CABLES AND SLEEVES ARE PROPERLY PLACED FOR THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, IRRIGATION, ETC. IN SUCH A MANNER THAT WILL FACILITATE THEIR PROPER INSTALLATION PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT AND LANDSCAPING.
6. PIPE LENGTHS INDICATED ARE FROM CENTER OF STRUCTURE AND TO END OF FLARED END SECTION UNLESS NOTED OTHERWISE.

STORM SEWER NOTES:

1. ALL STORM SEWER 12" DIAMETER OR LARGER SHALL BE REINFORCED CONCRETE PIPE (RCP C–76) CLASS IV WITH MODIFIED TONGUE AND GROOVE JOINT WITH RUBBER GASKETS UNLESS SPECIFIED OTHERWISE (ASTM C–443).

WATER MAIN NOTES:

1. ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 4.5' BELOW FINISH GRADE. WHEN WATER MAINS MUST DIP TO PASS UNDER A STORM SEWER OR SANITARY SEWER, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE KEPT TO A MINIMUM LENGTH BY THE USE OF VERTICAL TWENTY TWO AND A HALF (22.5°) DEGREE BENDS, PROPERLY ANCHORED.
2. ALL TEES, BENDS, CONNECTIONS, ETC. ARE CONSIDERED INCIDENTAL TO THE JOB.
3. PHYSICAL CONNECTIONS SHALL NOT BE MADE BETWEEN EXISTING AND NEW WATER MAINS UNTIL REQUIRED TESTING IS SATISFACTORILY COMPLETED.
4. MAINTAIN 10' HORIZONTAL CLEARANCE BETWEEN OUTER EDGE OF WATERMAIN AND ANY SANITARY/STORM SEWER OR STRUCTURE.
5. NO PHYSICAL CONNECTION TO THE EXISTING WATER MAIN CAN BE MADE UNTIL ALL NEW WATER MAIN PASSES PRESSURE AND BACTERIOLOGICAL TESTS TO THE SATISFACTION OF THE TOWN OF BROWNSBURG.
6. WATER MAIN SERVICE LEADS SHALL BE TYPE 'K' ANNEALED SEAMLESS COPPER WITH FLARED FITTINGS, UNLESS OTHERWISE NOTED.
7. ALL NECESSARY FITTINGS, THRUST BLOCKS, RESTRAINING GLANDS, BLOW OFFS, ETC. FOR WATER MAIN ARE CONSIDERED INCIDENTAL TO THIS PROJECT. THE CONTRACTOR SHALL INSTALL THESE ITEMS AS NECESSARY AND AS REQUIRED BY THE TOWN OF BROWNSBURG.
8. THE WATER MAIN CONTRACTOR SHALL NOTIFY THE INSPECTION SECTION OF THE TOWN OF BROWNSBURG AT (317) 852–1129 AT LEAST THREE WORKING DAYS IN ADVANCE OF STARTING CONSTRUCTION.

SANITARY SEWER NOTES:

1. DOWNSPOUTS, WEEP TILE, FOOTING DRAINS OR ANY CONDUIT THAT CARRIES STORM OR GROUND WATER SHALL NOT BE ALLOWED TO DISCHARGE INTO A SANITARY SEWER.
2. ALL SANITARY LEADS SHALL BE CONSTRUCTED AT 1.00% MINIMUM SLOPE.
3. ALL SANITARY SEWER LEADS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 23.5 PIPE AND FITTINGS. ALL JOINTS TO BE ELASTOMERIC GASKET JOINTS PER ASTM D3212 UNLESS OTHERWISE NOTED.
4. SANITARY LEADS SHALL BE PROVIDED WITH CLEANOUTS EVERY 100 FEET AND AT EVERY BEND AS SHOWN. ALL CLEANOUTS TO BE PROVIDED WITH E.J.I.W. #1565 BOX OR EQUAL.

LEGEND

IRON FOUND · IRON SET · NAIL FOUND · NAIL & CAP SET · BRASS PLUG SET · MONUMENT FOUND · MONUMENT SET · SEC. CORNER FOUND · R RECORDED · M MEASURED · C CALCULATED

EXISTING	PROPOSED
ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE	
UNDERGROUND CABLE TV, CATV PEDESTAL	
TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE	
ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE	
GAS MAIN, VALVE & GAS LINE MARKER	
WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE	
SANITARY SEWER, CLEANOUT & MANHOLE	
STORM SEWER, CLEANOUT & MANHOLE	
COMBINED SEWER & MANHOLE	
SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN	
POST INDICATOR VALVE	
WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF	
MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
UNIDENTIFIED STRUCTURE	
SPOT ELEVATION	671.21
CONTOUR LINE	671
FENCE	
GUARD RAIL	
STREET LIGHT	
SIGN	
CONCRETE	STD DUTY · HEAVY DUTY · R.O.W. ONLY
ASPHALT	STD DUTY · HEAVY DUTY · DEEP STRENGTH
GRAVEL SHOULDER	

REFERENCE DRAWINGS

WHITTINGTON, SECTION ONE, FINAL PLAT. RECORDED DECEMBER 29, 1989 IN PLAT CABINET 1, SLIDE 52, PAGE 2 AND SLIDE 53, PAGE 1

NOTE: HAVE NOT RECEIVED FRANCHISE UTILITIES AS OF AUGUST 6, 2020

811. Know what's below. Call before you dig.

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REVISIONS:

ISSUE DATE:

BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250

RACHEL LYNN SMITH · REGISTERED · No. 12000492 · STATE OF INDIANA · PROFESSIONAL ENGINEER

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t: 844.813.2949
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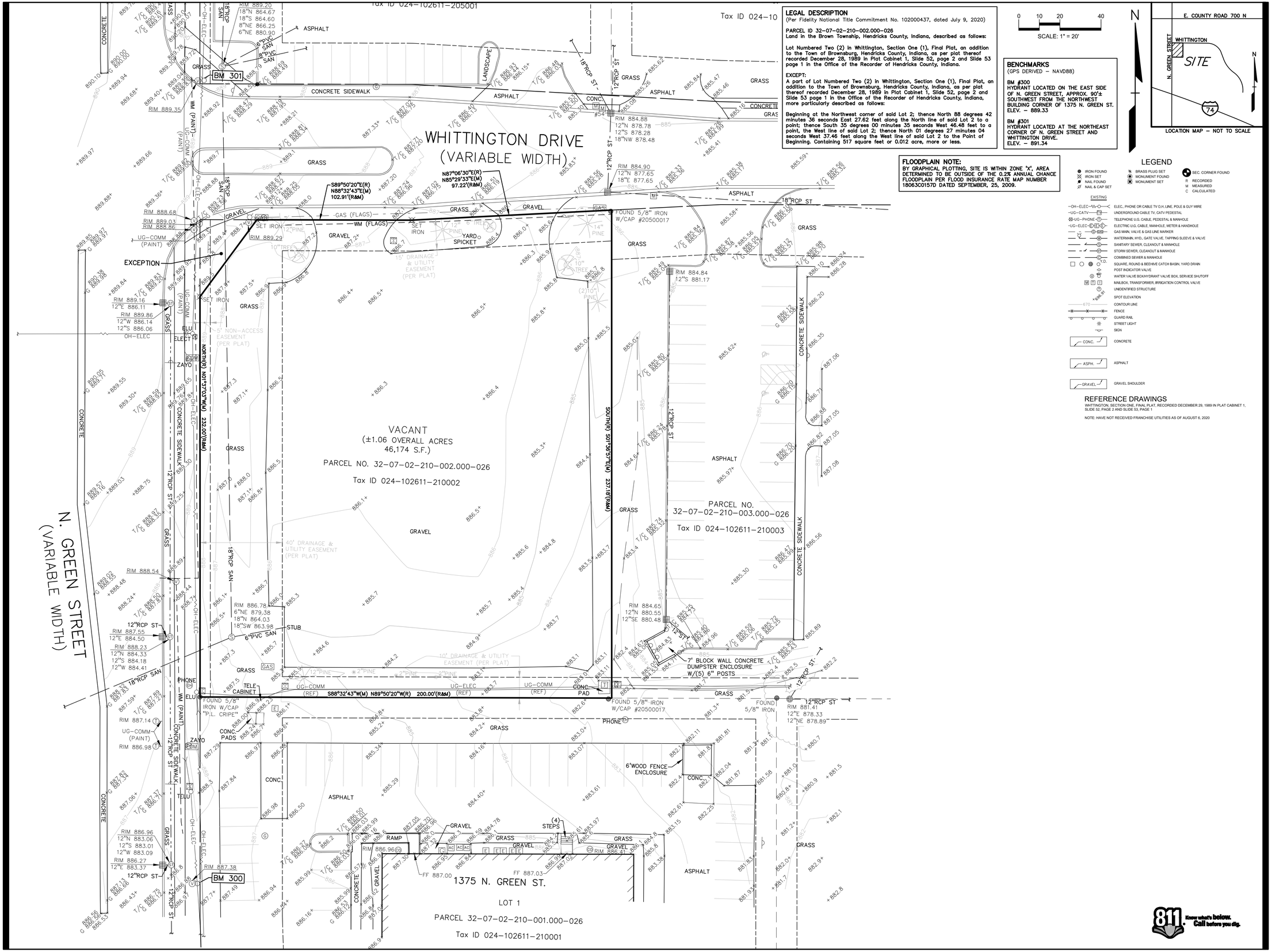
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

GENERAL NOTES

C01.1

TRUE WARM & WELCOME 2300 R4



LEGAL DESCRIPTION

(Per Fidelity National Title Commitment No. 102000437, dated July 9, 2020)

PARCEL ID 32-07-02-210-002.000-026
Land in the Brown Township, Hendricks County, Indiana, described as follows:

Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana.

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BENCHMARKS

(GPS DERIVED – NAVD88)

BM #300
HYDRANT LOCATED ON THE EAST SIDE OF N. GREEN STREET, APPROX. 90'± SOUTHWEST FROM THE NORTHWEST BUILDING CORNER OF 1375 N. GREEN ST.
ELEV. – 889.33

BM #301
HYDRANT LOCATED AT THE NORTHEAST CORNER OF N. GREEN STREET AND WHITTINGTON DRIVE.
ELEV. – 891.34

FLOODPLAIN NOTE:

BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 18063C0157D DATED SEPTEMBER, 25, 2009.

LEGEND

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R RECORDED
- M MEASURED
- C CALCULATED

EXISTING

- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UNDERGROUND CABLE TV, CATV PEDESTAL
- TELEPHONE U/G. CABLE, PEDESTAL & MANHOLE
- ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAIN, VALVE & GAS LINE MARKER
- WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
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- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN
- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL GRAVEL SHOULDER

REFERENCE DRAWINGS

WHITTINGTON, SECTION ONE, FINAL PLAT, RECORDED DECEMBER 29, 1989 IN PLAT CABINET 1, SLIDE 52, PAGE 2 AND SLIDE 53, PAGE 1

NOTE: HAVE NOT RECEIVED FRANCHISE UTILITIES AS OF AUGUST 6, 2020

811. Know what's below. Call before you dig.

[redacted]

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[redacted]

REVISIONS:

[redacted]

ISSUE DATE:

BUILDING PERMIT	02-10-2021

[redacted]

DRAWN BY: LGD

[redacted]

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[redacted]

TOPOGRAPHIC SURVEY

C02.0

SCALE: 1"=20'

[redacted]

TRUE WARM & WELCOME 2300 R4

Tax ID 024-102611-205001

Tax ID 024-10

WHITTINGTON DRIVE
(VARIABLE WIDTH)

N. GREEN STREET
(VARIABLE WIDTH)

VACANT
(±1.06 OVERALL ACRES
46,174 S.F.)
PARCEL NO. 32-07-02-210-002.000-026
Tax ID 024-102611-210002

PARCEL NO.
32-07-02-210-003.000-026
Tax ID 024-102611-210003

1375 N. GREEN ST.
LOT 1
PARCEL 32-07-02-210-001.000-026
Tax ID 024-102611-210001

PROTECT EXISTING WATER STRUCTURE.
PROTECT EXISTING HYDRANT.
S89°50'20"E(R)
N88°32'43"E(M)
102.91'(R&M)
CAUTION!! GAS LINE
CAUTION!! WATER MAIN
N87°06'30"E(R)
N85°29'33"E(M)
97.22'(R&M)
REMOVE AND SALVAGE SIGNS TO BE RELOCATED, TYP.
PROTECT EXISTING STORM STRUCTURE.
TREE PROTECTION FENCE, TYP. REFER TO LANDSCAPE PLANS FOR DETAILS.
EXCEPTION
PROTECT EXISTING SIGN TO REMAIN.
REMOVE TREE, TYP.
PROTECT STORM STRUCTURES.
PROTECT EXISTING UTILITY/LIGHT POLE.
5' NON-ACCESS EASEMENT (PER PLAT)
PROTECT EXISTING SIGN TO REMAIN.
PROTECT EXISTING ELECTRICAL STRUCTURE.
CAUTION!! SANITARY SEWER
REMOVE GRAVEL SURFACE.
NORTH(R) N01°57'03"W(M) 232.00'(R&M)
SOUTH(R) S01°58'55"E(M) 232.18'(R&M)
CAUTION!! STORM SEWER
CAUTION!! WATER MAIN
CAUTION!! OH-ELEC
PROTECT EXISTING WATER STRUCTURE.
PROTECT STORM STRUCTURES.
PROTECT SANITARY STRUCTURES.
CAUTION!! SANITARY SEWER
CAUTION!! WATER MAIN
PROTECT EXISTING UTILITY POLE AND STRUCTURES.
REMOVE TREE, TYP.
S88°32'43"W(M) N89°50'20"W(R) 200.00'(R&M)
CAUTION!! UG-ELEC
CAUTION!! UG-COMM
PROTECT EXISTING ELECTRICAL STRUCTURE AND CONCRETE PAD
PROTECT ELECTRICAL STRUCTURES.
PROTECT STORM STRUCTURES.
BM 301
BM 300
6'WOOD FENCE ENCLOSURE
7' BLOCK WALL CONCRETE DUMPSTER ENCLOSURE W/(5) 6" POSTS
CONC. PADS
RAMP
STEPS
GRAVEL
ASPHALT
CONCRETE SIDEWALK
GRASS

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SCALE: 1" = 20'

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ELEV. – 891.34

N

E. COUNTY ROAD 700 N
WHITTINGTON
N. GREEN STREET
SITE
74
LOCATION MAP – NOT TO SCALE

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- ASPHALT
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DEMOLITION LEGEND:

- ITEM TO BE PROTECTED
- ITEM TO BE REMOVED
- CURB/FENCE REMOVAL
- AREA OR ITEMS TO BE REMOVED
- TREE REMOVAL
- SAWCUT LINE

DEMOLITION NOTES:
1. REFER TO SHEET C01.1 FOR DEMOLITION NOTES

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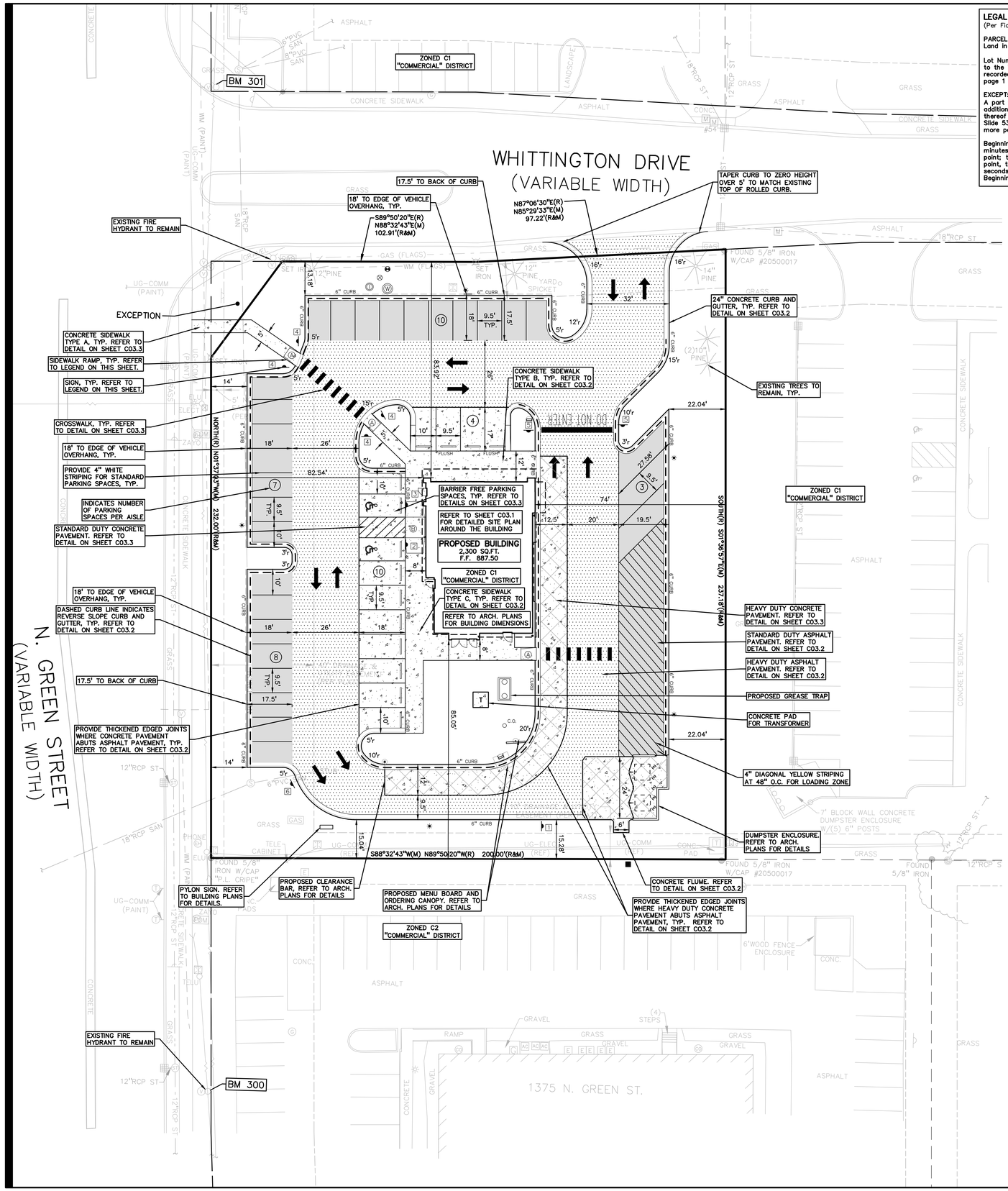
DEMOLITION PLAN

C02.1

SCALE: 1"=20'



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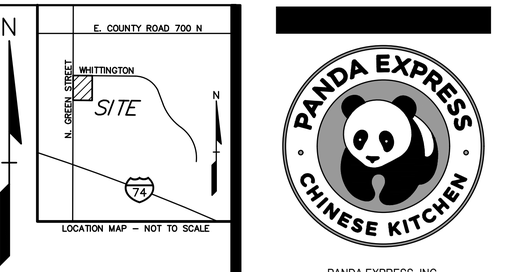

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SITE DATA TABLE:

SITE AREA: 1.06 ACRES (46,174 S.F.) NET AND GROSS

ZONING: C1 – MODERATE INTENSITY GENERAL COMMERCIAL DISTRICT

PROPOSED USE: RESTAURANT (2,300 SF)

BUILDING INFORMATION:
MAXIMUM ALLOWABLE BUILDING HEIGHT = 40 FEET (2 STORIES)
PROPOSED BUILDING HEIGHT = 22.5 FEET (1 STORY)

BUILDING FOOTPRINT AREA = 2,300 SQ.FT.

BUILDING LOT COVERAGE = 5.0%

BUILDING SETBACKS:	REQUIRED:	PROPOSED:
FRONT (N. GREEN ST):	40'	82.54'
FRONT (WHITTINGTON DR):	40'	83.92'
SIDE (EAST):	20'	74.00'
REAR (SOUTH):	20'	85.05'

PARKING SETBACKS:	REQUIRED:	PROPOSED:
FRONT (N. GREEN ST:	20'	+13.18'
FRONT (WHITTINGTON DR):	20'	+14'
SIDE (EAST):	15'	22.04'
SIDE (SOUTH):	15'	15.04'

PARKING CALCULATIONS:
RESTAURANT = 1 SPACE PER 2 CUSTOMER SEATS
TOTAL PARKING REQUIRED = 66 SEATS / 2 = 33 SPACES

TOTAL PROPOSED PARKING SPACES = 42 SPACES INC. 2 H/C SPACES

OPEN SPACE:
MAXIMUM IMPERVIOUS AREA = 65%
PROPOSED IMPERVIOUS AREA = 65%

SITE SOILS INFORMATION:
ACCORDING TO THE USDA NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY FOR MARION COUNTY, THE SITE CONSISTS OF THE FOLLOWING SOIL TYPES:

UbaA URBAN LAND–BROOKSTON COMPLEX
UkbB2 URBAN LAND–MIAMI SILT LOAM COMPLEX
UcfA URBAN LAND–CROSBY SILT LOAM COMPLEX

• = ADMINISTRATIVE DISCRETION REQUESTED

LEGEND

IRON FOUND
IRON SET
NAIL FOUND
NAIL & CAP SET
BRASS PLUG SET
MONUMENT FOUND
MONUMENT SET
SEC. CORNER FOUND
R RECORDED
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EXISTING		PROPOSED
-OH-ELEC-	ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE	
-UG-CATV-	UNDERGROUND CABLE TV, CATV PEDESTAL	
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	WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE	
	SANITARY SEWER, CLEANOUT & MANHOLE	
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	POST INDICATOR VALVE	
	WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF	
	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
	UNIDENTIFIED STRUCTURE	
	SPOT ELEVATION	
670	CONTOUR LINE	671
	FENCE	
	GUARD RAIL	
	STREET LIGHT	
CONC.	CONCRETE	STD DUTY / HEAVY DUTY / R.O.W. ONLY
ASPH.	ASPHALT	STD DUTY / HEAVY DUTY / DEEP STRENGTH
GRAVEL	GRAVEL SHOULDER	

REFERENCE DRAWINGS

WHITTINGTON, SECTION ONE, FINAL PLAT, RECORDED DECEMBER 29, 1989 IN PLAT CABINET 1, SLIDE 52, PAGE 2 AND SLIDE 53, PAGE 1

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SIDEWALK RAMP LEGEND:

PERPENDICULAR CURB RAMP WITH ADJACENT NON-WALKABLE SURFACE (A)

PARALLEL CURB RAMP (B)

REFER TO LATEST INDOT STANDARD DRAWING E 604-SWCR (PAGES 1 THRU 14) FOR ALL SIDEWALK RAMP DETAILS, STANDARDS AND NOTES

SIGN LEGEND:

'NO PARKING FIRE LANE' SIGN	[1]
'BARRIER FREE PARKING' SIGN	[2]
'VAN ACCESSIBLE' SIGN	[3]
'CROSSWALK' SIGN	[4]
'DO NOT ENTER' SIGN	[5]
'ONE-WAY' SIGN	[6]

REFER TO DETAIL SHEET FOR SIGN DETAILS

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SITE PLAN

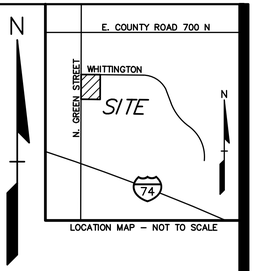
C03.0

SCALE: 1"=20'

TRUE WARM & WELCOME 2300 R4

SCALE: 1" = 10'

0 5 10 20



LOCATION MAP – NOT TO SCALE

LEGEND

IRON FOUND
IRON SET
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PARALLEL CURB RAMP – Ⓑ
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DETAILED BUILDING SITE PLAN

C03.1

SCALE: 1"=10'

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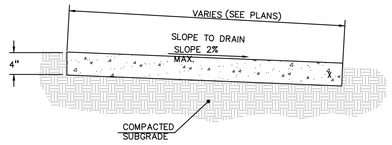

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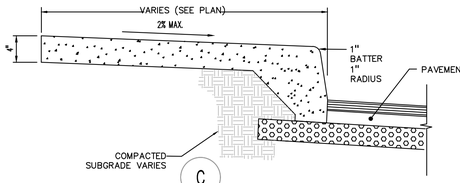
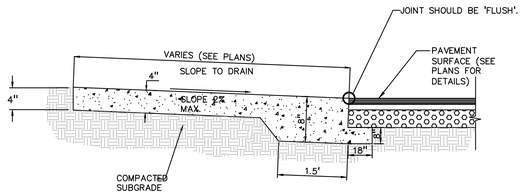


C



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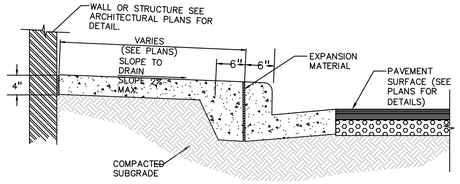
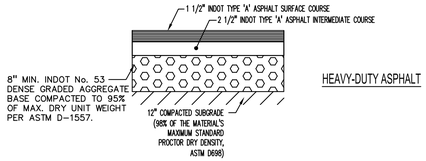


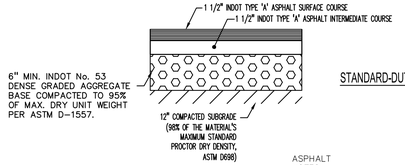
D

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.

1 CONCRETE SIDEWALK NTS



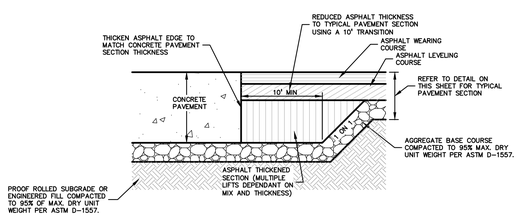
HEAVY-DUTY ASPHALT



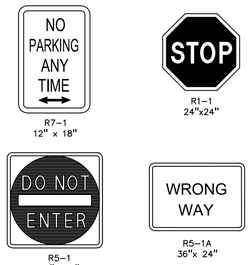
STANDARD-DUTY ASPHALT

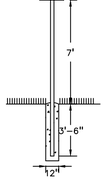
ASPHALT NOTES:
- THE ASPHALT SURFACE COURSE SHOULD CONFORM TO THE MOST RECENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, FOR HOT MIX ASPHALTIC CONCRETE SURFACE COURSE.
- THE BASE COURSE SHOULD CONFORM TO THE INDOT STANDARDS FOR BASE COURSE COMPACTED TO 100 PERCENT OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY.
- TACK COAT SHOULD BE PROVIDED ATOP EACH PAVEMENT SECTION.

4 PAVEMENT SECTION NTS



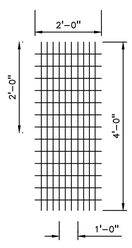
8 THICKENED EDGE ASPHALT DETAIL NTS



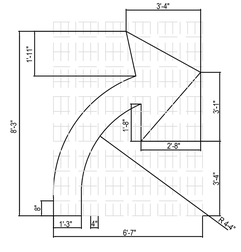


HEIGHT & CLEARANCE OF SIGNS (FOR ROADWAY SIGN)

5 SITE SIGNAGE NTS

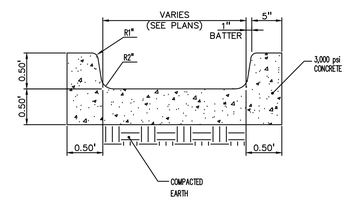


PAVEMENT MARKING ARROW - WHITE
ALL DIRECTIONAL ARROWS SHALL BE DOUBLE COATED.



PAVEMENT MARKING, ARROW, TYPE 3 WHITE (16.0 SQ. FT.)

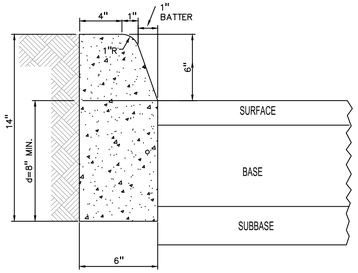
9 DIRECTIONAL ARROWS NTS



SLOPE FLUME ACCORDING TO GRADING AND DRAINAGE PLAN

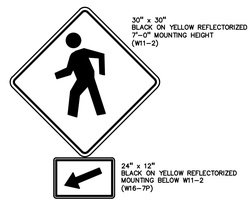
CONCRETE NOTES:
- f'c = 4,000 PSI
- PROVIDE CONTROL JOINTS AT 5' O.C.
- PROVIDE EXPANSION JOINTS ONLY WHERE CONCRETE PAVEMENT ABUTS FIXED OBJECTS, CURB AND GUTTER, AND OTHER PAVEMENT TYPES.

2 CONCRETE FLUME NTS

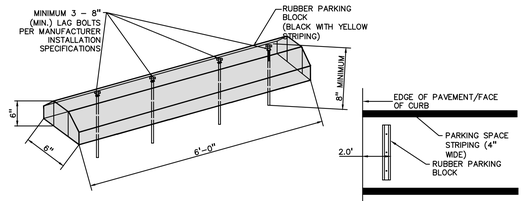


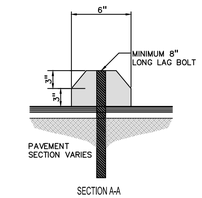
NOTES
- THE DIMENSION d MAY INCREASE AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVING.
- THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
- f'c = 4,000 PSI

6 6" HEADER CURB NTS



CROSSWALK SIGN DETAIL
NOT TO SCALE





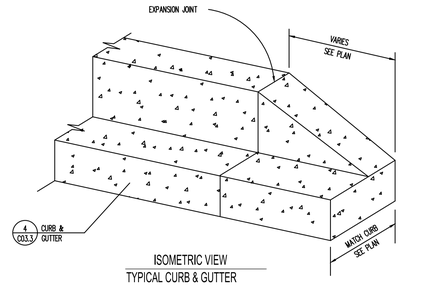
LAG BOLT METHOD: RECOMMENDED FOR ASPHALT OR CONCRETE ONLY.

REFER TO MANUFACTURERS INSTALLATION SPECIFICATIONS.

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

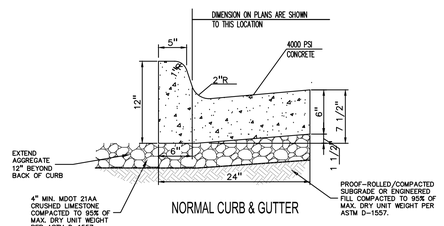
1. POSITION THE PARKING BLOCK WHERE YOU WANT TO INSTALL IT. USING THE HOLES MOLDED IN THE PARKING BLOCK AS TEMPLATES, MARK THE LOCATION OF EACH HOLE ON THE SURFACE.
2. REMOVE THE PARKING BLOCK. USING A HIGH-SPEED HAMMER DRILL WITH A ¾" MASONRY BIT, DRILL A 4" TO 4 ½" DEEP HOLE AT EACH MARKED LOCATION.
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.

3 RUBBER WHEELSTOP NTS

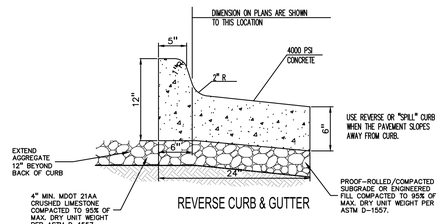


ISOMETRIC VIEW
TYPICAL CURB & GUTTER

7 CURB TRANSITION NTS



NORMAL CURB & GUTTER



REVERSE CURB & GUTTER

10 24" CURB & GUTTER NTS

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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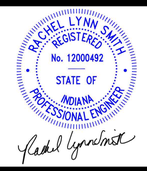
REVISIONS:

ISSUE DATE:

BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250



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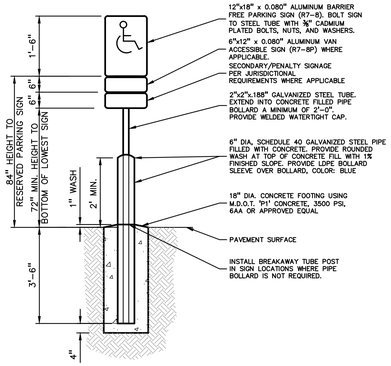
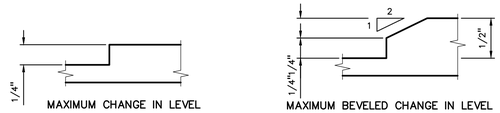
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

HARDSCAPE DETAILS I
C03.2



BARRIER FREE SIGN AND POST DETAIL
NOT TO SCALE



BARRIER FREE SURFACE CHANGE IN LEVEL TOLERANCE
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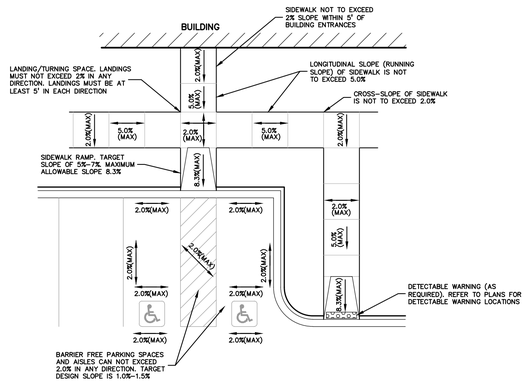

PARKING SPACE GRADING INFORMATION
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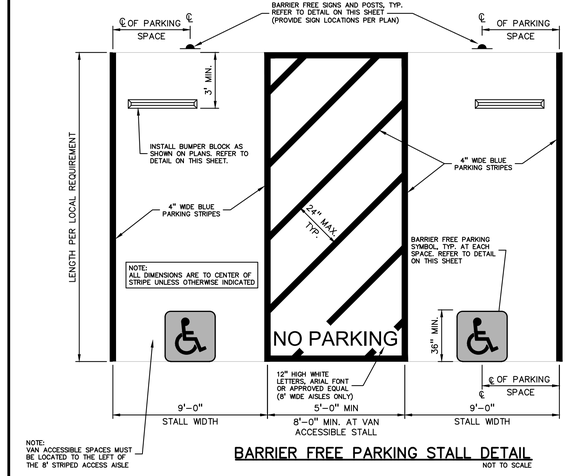

BARRIER FREE PARKING STALL DETAIL
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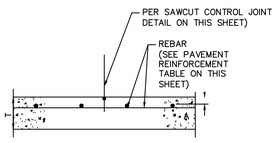
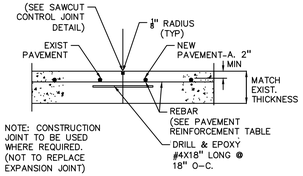


SAWCUT JOINT
N.T.S.



CONCRETE TO CONCRETE TIE IN
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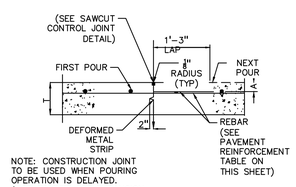

CONSTRUCTION JOINT
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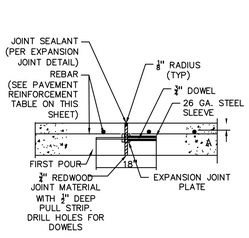

SAWCUT JOINT
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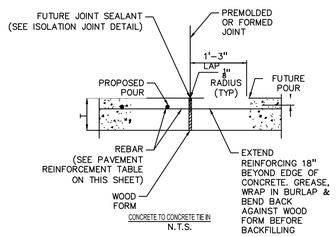

CONCRETE TO CONCRETE TIE IN
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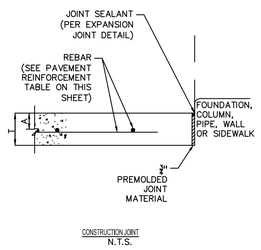
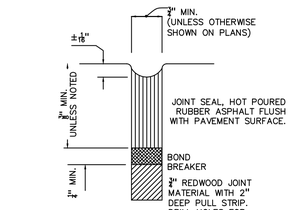
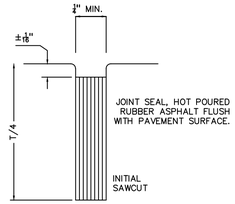


CONSTRUCTION JOINT
N.T.S.

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. CAL 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 WILL 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 ¾" 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 ¾" 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.

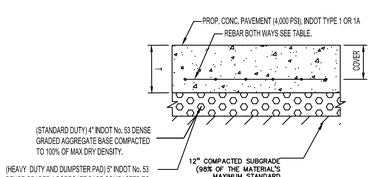


EXPANSION JOINT
N.T.S.



SAW CUT CONTROL JOINT
N.T.S.

REINFORCEMENT TABLE				
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"
STANDARD DUTY	5	2	15	#3 @ 24" C-C
HEAVY DUTY	6	2	15	#3 @ 24" C-C
DUMPSTER PAD	7	2	15	#3 @ 24" C-C



11 CONCRETE SECTION NTS

12" x 18" (R7-8) GREEN BORDER AND LEGEND WHITE SYMBOL, BLUE BACKGROUND. REFLECTORIZED

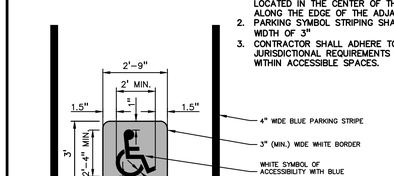
BARRIER FREE PARKING SIGN DETAIL
NOT TO SCALE

12" x 18" (R7-8) GREEN BORDER AND LEGEND WHITE SYMBOL, BLUE BACKGROUND. REFLECTORIZED

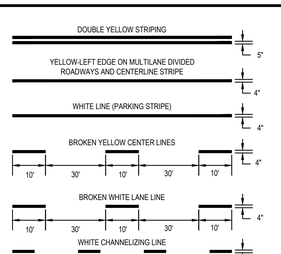
NOTE: MAY ONLY BE USED AT 11' WIDE SPACES LOCATED ON THE LEFT SIDE OF A 5' WIDE AISLE, OR 8' WIDE SPACES LOCATED TO THE LEFT OF 8' WIDE AISLES

6" x 12" (R7-8P) GREEN BORDER AND LEGEND REFLECTORIZED

VAN ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE

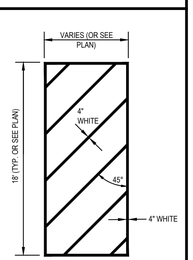


BARRIER FREE PARKING SYMBOL DETAIL (INTERNATIONAL SYMBOL OF ACCESSIBILITY)
NOT TO SCALE

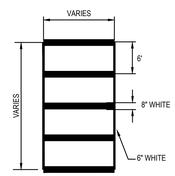


LINE SPECIFICATIONS

ALL ON-SITE STRIPING SHALL BE WHITE, APART FROM ADA BLUE STRIPING, UNLESS OTHERWISE NOTED.



"NO PARKING ZONE" STRIPING



ONSITE CROSSWALK SPECIFICATION

2 PAVEMENT STRIPING AND MARKING NTS

GENERAL BARRIER FREE NOTES:

THE FOLLOWING NOTES PROVIDE AN OUTLINE OF SOME OF THE REQUIREMENTS CONTAINED WITHIN THE "STANDARDS FOR ACCESSIBLE DESIGN – AMERICANS WITH DISABILITIES ACT 2010". THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REQUIREMENTS PRESENTED WITHIN THESE DOCUMENTS, WHICH ARE AVAILABLE IN FULL UPON REQUEST.

1. AN ACCESSIBLE ROUTE CONSISTS OF WALK SURFACES, CURB RAMPS AND RAMPS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES, PUBLIC STREETS AND SIDEWALKS TO THE BUILDING OR FACILITY ENTRANCE THEY SERVE.
2. THE RUNNING SLOPE OF ALL WALKING SURFACES SHALL NOT EXCEED 5% (1:20) AND THE CROSS–SLOPE SHALL NOT EXCEED 2% (1:48).
3. WALKING SURFACES MUST BE LEVEL WITH PERMITTED VERTICAL CHANGES IN LEVEL NOT TO EXCEED 1/4", OR BEVELED CHANGES IN LEVEL NOT TO EXCEED 1/2". REFER TO DETAIL THIS SHEET. ANY CHANGE IN LEVEL GREATER THAN 1/2" MUST BE RAMPED.
4. TURNING SPACES ALONG ACCESSIBLE ROUTES MUST BE AT LEAST 5 FEET WIDE IN ALL DIRECTIONS AND NOT EXCEED 2% SLOPE (1:48) IN ANY DIRECTION.
5. ACCESSIBLE ROUTES WILL BE DESIGNED TO BE A MINIMUM OF 5 FEET WIDE. THE MINIMUM CLEAR WIDTH IS 3 FEET.
6. RAMPS ALONG ACCESSIBLE ROUTES WILL HAVE A RUNNING SLOPE GREATER THAN 5% (1:20) AND LESS THAN 8.3% (1:12).
7. THE CROSS–SLOPE OF RAMP RUNS SHALL NOT EXCEED 2% (1:48)
8. THE MINIMUM CLEAR WIDTH OF ANY RAMP IS 36 INCHES.
9. THE MAXIMUM RISE FOR ANY RAMP (NOT INCLUDING CURB RAMPS) SHALL NOT EXCEED 30 INCHES. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF EACH RAMP. LANDINGS SHALL HAVE A CROSS–SLOPE NOT EXCEEDING 2% (1:48), SHALL BE 5 FEET LONG AND AT LEAST AS WIDE AS THE RAMP CLEAR WIDTH. IF THERE IS A CHANGE OF DIRECTION AT A LANDING, THEN THE LANDING MUST BE AT LEAST 5 FEET WIDE AND 5 FEET LONG.
10. HANDRAILS ARE REQUIRED FOR ANY RAMP (NOT INCLUDING CURB RAMPS) WITH A RISE GREATER THAN 6 INCHES. ALL HANDRAILS ARE REQUIRED TO HAVE EDGE PROTECTION UNLESS ADJOINING ANOTHER ACCESS POINT OR IF THE VERTICAL DROP–OFF AT THE EDGE OF THE RAMP DOES NOT EXCEED 1/2" IN 10 FEET. EDGE PROTECTION CAN BE PROVIDED BY MEANS OF A 4" MIN. CURB OR BARRIER.
11. CURB RAMPS ALONG ACCESSIBLE ROUTES SHALL NOT RISE MORE THAN 6 INCHES, NOR BE STEEPER THAN 8.3% (1:12). APPROACHING SLOPES TO THE RAMP CANNOT EXCEED 5%, WHICH INCLUDES SIDEWALKS, PAVEMENT, GUTTERS ETC.
12. IF CURB RAMP SIDES ARE FLARED, THE FLARES SHALL NOT BE STEEPER THAN 10% (1:10).
13. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS. THE CLEAR LENGTH OF THE LANDING SHALL BE A MINIMUM OF 36" AND WILL BE AS WIDE AS THE CURB RAMP.
14. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
15. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS.
16. WHERE DETECTABLE WARNING IS REQUIRED AT CURB RAMPS, THE DETECTABLE WARNING SHALL BE 24" MINIMUM IN DEPTH AND SHALL EXTEND THE FULL WIDTH OF THE RAMP. THE DETECTABLE WARNING SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE CURB LINE.
17. ACCESSIBLE PARKING SPACES ON SITE SHALL BE PROVIDED AS REQUIRED IN SECTION 502 OF THE A.D.A. IF THE SITE HAS MORE THAN ONE PARKING *FACILITY*, EACH *FACILITY* IS REQUIRED TO MEET THESE REQUIREMENTS SEPARATELY. THE REQUIRED NUMBER OF SPACES SHALL BE BASED ON THE TOTAL NUMBER OF PARKING SPACES IN EACH PARKING FACILITY ON SITE.
18. FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, ONE VAN ACCESSIBLE SPACE SHALL BE PROVIDED.
19. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM PARKING TO A BUILDING ENTRANCE. IF THERE IS MORE THAN ONE ACCESSIBLE ENTRANCE, PARKING SHALL BE DISPERSED ALONG THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES.
20. BARRIER FREE CAR PARKING SPACES SHALL BE A MINIMUM OF 8 FEET WIDE WITH AN ACCESS AISLE 5 FEET WIDE MINIMUM. VAN ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 11 FEET WIDE WITH A 5' WIDE ACCESS AISLE. VAN ACCESSIBLE SPACES ARE ALSO ACCEPTABLE WITH AN 8 FOOT WIDTH AND 8 FOOT WIDE ACCESS AISLE. THE ACCESS AISLE IN ALL CASES MUST EXTEND THE FULL LENGTH OF THE PARKING SPACE.
21. SURFACE SLOPES WITHIN THE PARKING SPACES AND AISLES SHALL NOT EXCEED 2% (1:48)
22. ACCESSIBLE AREAS INCLUDING PARKING SPACES, AISLES AND PATHWAYS, REQUIRE A MINIMUM VERTICAL CLEARANCE OF 98 INCHES.
23. ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS. THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. VAN PARKING SPACES ARE REQUIRED TO BE DESIGNATED AS "VAN ACCESSIBLE". REFER TO DETAILS ON THIS SHEET.

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REVISIONS:

ISSUE DATE:

BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059

CIVIL PROJECT #: 2020-0250

RACHEL LYNN SMITH REGISTERED No. 12000492 STATE OF INDIANA PROFESSIONAL ENGINEER

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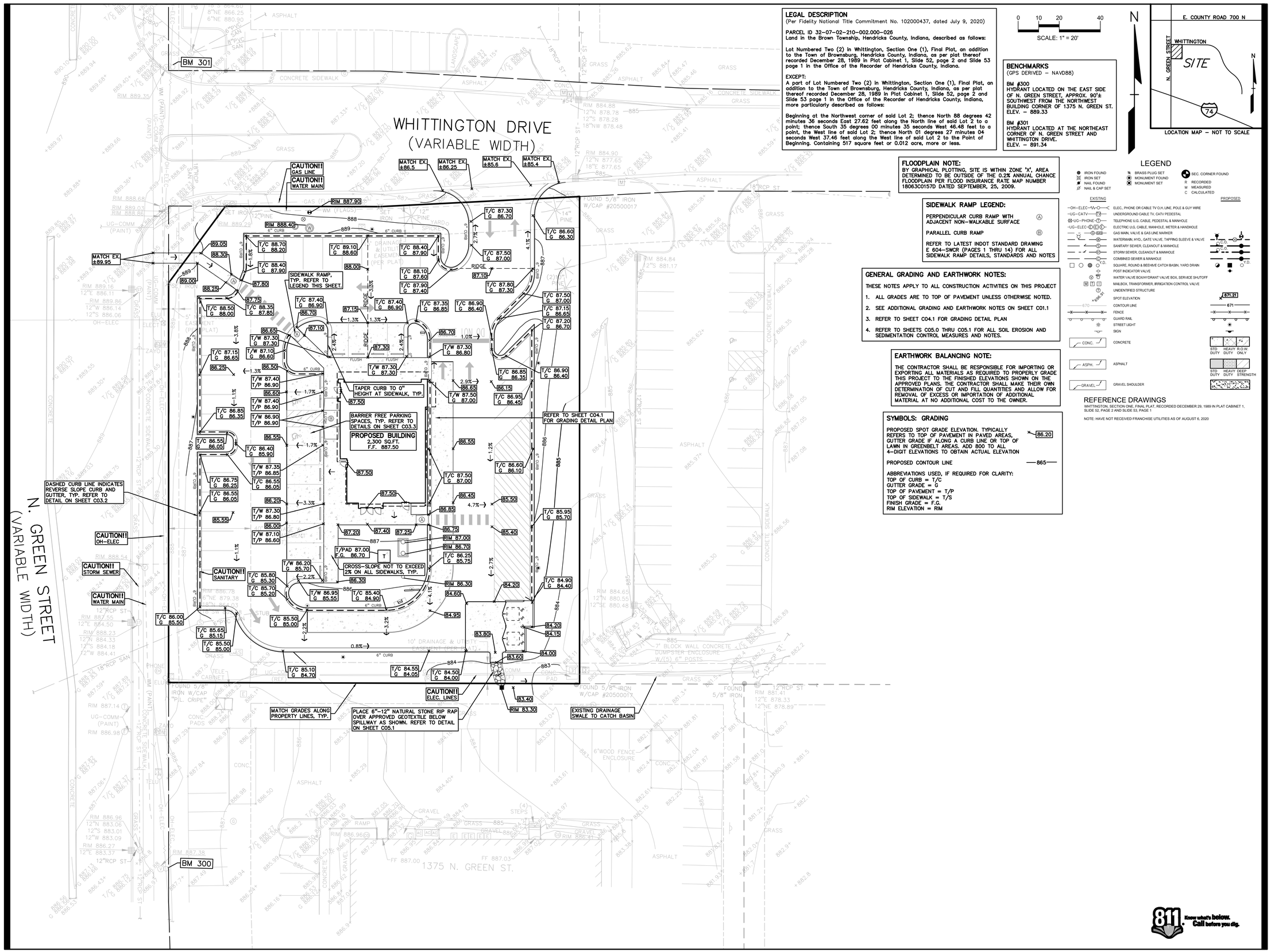
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

HARDSCAPE DETAILS II
C03.3


WHITTINGTON DRIVE
(VARIABLE WIDTH)
N. GREEN STREET
(VARIABLE WIDTH)
BM 301
BM 300
CAUTION!! GAS LINE
CAUTION!! WATER MAIN
CAUTION!! OH-ELEC
CAUTION!! STORM SEWER
CAUTION!! SANITARY
CAUTION!! WATER MAIN
CAUTION!! ELEC. LINES
SIDEWALK RAMP, TYP. REFER TO LEGEND THIS SHEET.
TAPER CURB TO 0" HEIGHT AT SIDEWALK, TYP.
BARRIER FREE PARKING SPACES, TYP. REFER TO DETAILS ON SHEET C03.3
PROPOSED BUILDING
2,300 SQ.FT.
F.F. 887.50
REFER TO SHEET C04.1 FOR GRADING DETAIL PLAN
DASHED CURB LINE INDICATES REVERSE SLOPE CURB AND GUTTER, TYP. REFER TO DETAIL ON SHEET C03.2
CROSS-SLOPE NOT TO EXCEED 2% ON ALL SIDEWALKS, TYP.
T/PAD 87.00
F.G. 86.70
MATCH GRADES ALONG PROPERTY LINES, TYP.
PLACE 6"-12" NATURAL STONE RIP RAP OVER APPROVED GEOTEXTILE BELOW SPILLWAY AS SHOWN. REFER TO DETAIL ON SHEET C05.1
EXISTING DRAINAGE SWALE TO CATCH BASIN
1375 N. GREEN ST.
FF 887.03
FF 887.00
10' DRAINAGE & UTILITY EASEMENT (PER PLAT)
7' BLOCK WALL CONCRETE DUMPSTER ENCLOSURE W/(5) 6" POSTS
6'WOOD FENCE ENCLOSURE
FOUND 5/8" IRON W/CAP "P.L. CRIPE"
FOUND 5/8" IRON W/CAP #20500017
FOUND 5/8" IRON W/CAP #20500017
FOUND 5/8" IRON W/CAP #20500017
FOUND 5/8" IRON W/CAP #20500017
FOUND 5/8" IRON W/CAP #20500017
FOUND 5/8" IRON W/CAP #20500017
SET IRON PIN
RIDGE
FLUSH
6" CURB
8" CURB
STUB
RAMP
STEPS
GRAVEL
ASPHALT
CONCRETE SIDEWALK
GRASS
CONC. PADS
UG-COMM (PAINT)
OH-ELEC
WM (PAINT)
GAS (PAINT)
CATV
PHONE
ELEC
TELE
CABINET
MATCH EX. ±86.5
MATCH EX. ±86.25
MATCH EX. ±85.6
MATCH EX. ±85.4
MATCH EX. ±89.95
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RIM 86.70
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12"RCP ST
18"RCP ST
12"RCP SAN
8"NE 866.25
6"NE 880.90
8"SW 880.50
8"SW 880.50
6"SW 880.50
8"SAN
6"SAN
12"W 877.65
18"E 877.65
18"NW 878.48
12"N 878.78
12"SE 878.26
12"N 877.65
18"E 877.65
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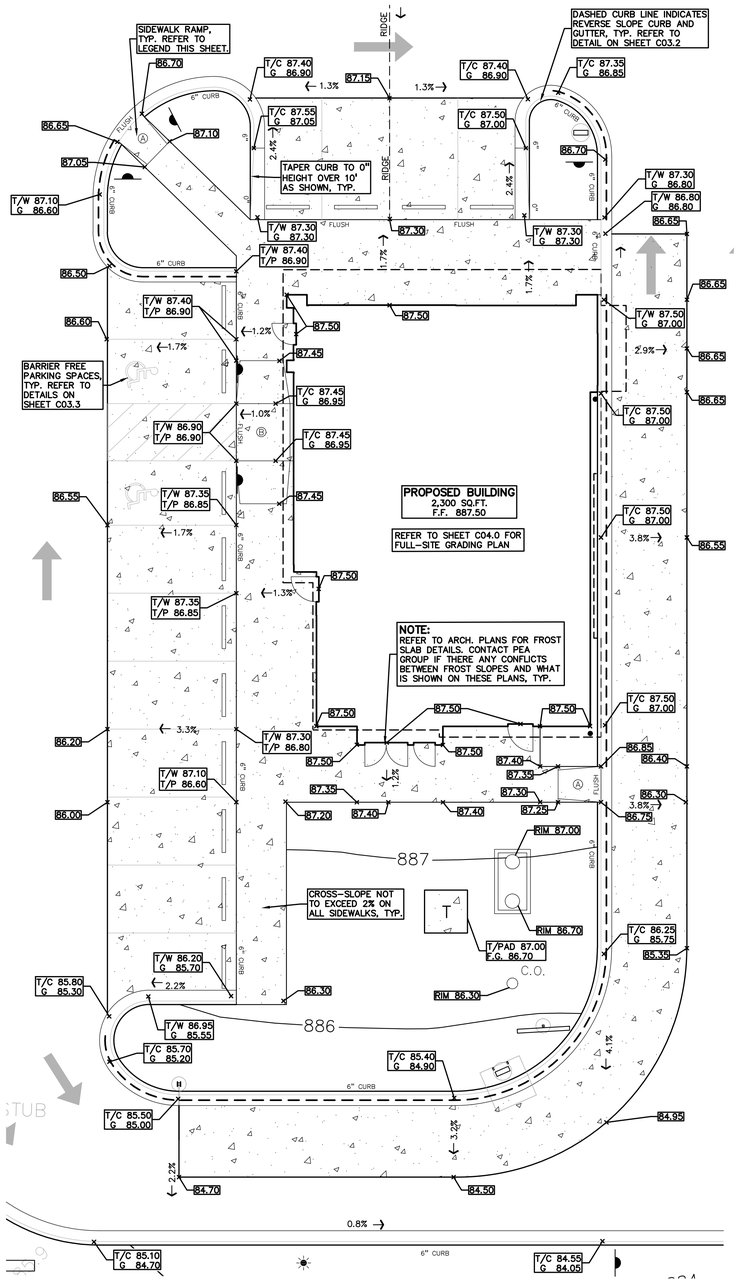

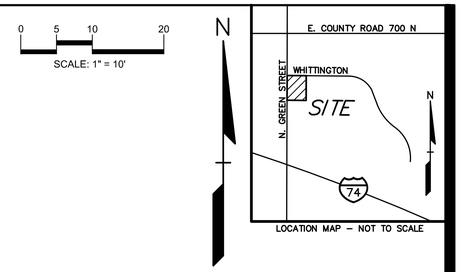

LEGEND

IRON FOUND
IRON SET
NAIL FOUND
NAIL & CAP SET
BRASS PLUG SET
MONUMENT FOUND
MONUMENT SET
SEC. CORNER FOUND
R RECORDED
M MEASURED
C CALCULATED

EXISTING		PROPOSED
–OH–ELEC–	ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE	
–UG–CATV–	UNDERGROUND CABLE TV, CATV PEDESTAL	
–UG–PHONE–	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE	
–UG–ELEC–	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE	
–GAS–	GAS MAIN, VALVE & GAS LINE MARKER	
–W–	WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE	
–S–	SANITARY SEWER, CLEANOUT & MANHOLE	
–ST–	STORM SEWER, CLEANOUT & MANHOLE	
–S–	COMBINED SEWER & MANHOLE	
	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN	C.O. / Y.D.
	POST INDICATOR VALVE	
	WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF	
U T I	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
	UNIDENTIFIED STRUCTURE	
+1234.56	SPOT ELEVATION	671.21
670	CONTOUR LINE	671
	FENCE	
	GUARD RAIL	
	STREET LIGHT	
	SIGN	
CONC.	CONCRETE	STD DUTY / HEAVY DUTY / R.O.W. ONLY
ASPH.	ASPHALT	STD DUTY / HEAVY DUTY / DEEP STRENGTH
GRAVEL	GRAVEL SHOULDER	

REFERENCE DRAWINGS

WHITTINGTON, SECTION ONE, FINAL PLAT, RECORDED DECEMBER 29, 1989 IN PLAT CABINET 1, SLIDE 52, PAGE 2 AND SLIDE 53, PAGE 1

NOTE: HAVE NOT RECEIVED FRANCHISE UTILITIES AS OF AUGUST 6, 2020

SIDEWALK RAMP LEGEND:

PERPENDICULAR CURB RAMP WITH ADJACENT NON-WALKABLE SURFACE – Ⓐ

PARALLEL CURB RAMP – Ⓑ

REFER TO LATEST INDOT STANDARD DRAWING E 604-SWCR (PAGES 1 THRU 14) FOR ALL SIDEWALK RAMP DETAILS, STANDARDS AND NOTES

GENERAL GRADING AND EARTHWORK NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

1. ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. SEE ADDITIONAL GRADING AND EARTHWORK NOTES ON SHEET C01.1
3. REFER TO SHEETS C05.0 THRU C05.1 FOR ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

SYMBOLS: GRADING

PROPOSED SPOT GRADE ELEVATION. TYPICALLY REFERS TO TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IF ALONG A CURB LINE OR TOP OF LAWN IN GREENBELT AREAS. ADD 800 TO ALL 4-DIGIT ELEVATIONS TO OBTAIN ACTUAL ELEVATION – 86.20

PROPOSED CONTOUR LINE – 865

ABBREVIATIONS USED, IF REQUIRED FOR CLARITY:
TOP OF CURB = T/C
GUTTER GRADE = G
TOP OF PAVEMENT = T/P
TOP OF SIDEWALK = T/S
FINISH GRADE = F.G.
RIM ELEVATION = RIM

811 Know what's below. Call before you dig.

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Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250

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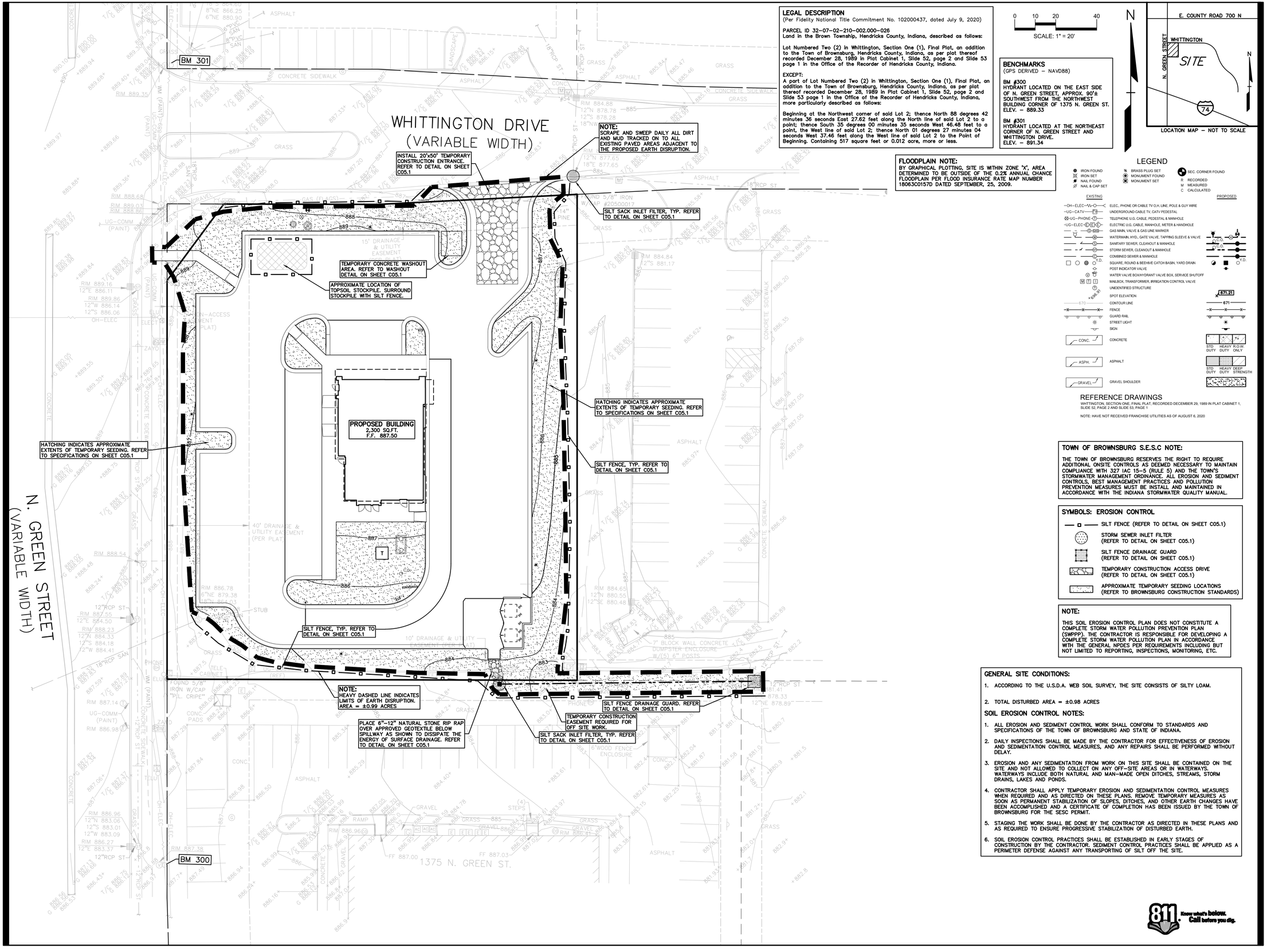
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

GRADING DETAIL PLAN

C04.1

SCALE: 1"=10'



LEGAL DESCRIPTION

(Per Fidelity National Title Commitment No. 102000437, dated July 9, 2020)

PARCEL ID 32-07-02-210-002.000-026
Land in the Brown Township, Hendricks County, Indiana, described as follows:

Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana.

EXCEPT:
A part of Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana, more particularly described as follows:

Beginning at the Northwest corner of said Lot 2; thence North 88 degrees 42 minutes 36 seconds East 27.62 feet along the North line of said Lot 2 to a point; thence South 35 degrees 00 minutes 35 seconds West 46.48 feet to a point, the West line of said Lot 2; thence North 01 degrees 27 minutes 04 seconds West 37.46 feet along the West line of said Lot 2 to the Point of Beginning. Containing 517 square feet or 0.012 acre, more or less.

FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 18063C0157D DATED SEPTEMBER, 25, 2009.

0 10 20 40
SCALE: 1" = 20'

BENCHMARKS

(GPS DERIVED – NAVD88)

BM #300
HYDRANT LOCATED ON THE EAST SIDE OF N. GREEN STREET, APPROX. 90'± SOUTHWEST FROM THE NORTHWEST BUILDING CORNER OF 1375 N. GREEN ST.
ELEV. – 889.33

BM #301
HYDRANT LOCATED AT THE NORTHEAST CORNER OF N. GREEN STREET AND WHITTINGTON DRIVE.
ELEV. – 891.34

LOCATION MAP – NOT TO SCALE

LEGEND

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R RECORDED
- M MEASURED
- C CALCULATED

EXISTING	PROPOSED	
–OH–ELEC–		ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
–UG–CATV–		UNDERGROUND CABLE TV, CATV PEDESTAL
–UG–PHONE–		TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
–UG–ELEC–		ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
–GAS–		GAS MAIN, VALVE & GAS LINE MARKER
–W–		WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE
–S–		SANITARY SEWER, CLEANOUT & MANHOLE
–ST–		STORM SEWER, CLEANOUT & MANHOLE
–CO–		COMBINED SEWER & MANHOLE
		SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
		POST INDICATOR VALVE
		WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
		MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
		UNIDENTIFIED STRUCTURE
		SPOT ELEVATION
–670–		CONTOUR LINE
		FENCE
		GUARD RAIL
		STREET LIGHT
		SIGN
CONC.		CONCRETE
ASPH.		ASPHALT
GRAVEL		GRAVEL SHOULDER

REFERENCE DRAWINGS

WHITTINGTON, SECTION ONE, FINAL PLAT. RECORDED DECEMBER 29, 1989 IN PLAT CABINET 1, SLIDE 52, PAGE 2 AND SLIDE 53, PAGE 1

NOTE: HAVE NOT RECEIVED FRANCHISE UTILITIES AS OF AUGUST 6, 2020

TOWN OF BROWNSBURG S.E.S.C NOTE:

THE TOWN OF BROWNSBURG RESERVES THE RIGHT TO REQUIRE ADDITIONAL ONSITE CONTROLS AS DEEMED NECESSARY TO MAINTAIN COMPLIANCE WITH 327 IAC 15-5 (RULE 5) AND THE TOWN'S STORMWATER MANAGEMENT ORDINANCE. ALL EROSION AND SEDIMENT CONTROLS, BEST MANAGEMENT PRACTICES AND POLLUTION PREVENTION MEASURES MUST BE INSTALL AND MAINTAINED IN ACCORDANCE WITH THE INDIANA STORMWATER QUALITY MANUAL.

SYMBOLS: EROSION CONTROL

- SILT FENCE (REFER TO DETAIL ON SHEET C05.1)
- STORM SEWER INLET FILTER (REFER TO DETAIL ON SHEET C05.1)
- SILT FENCE DRAINAGE GUARD (REFER TO DETAIL ON SHEET C05.1)
- TEMPORARY CONSTRUCTION ACCESS DRIVE (REFER TO DETAIL ON SHEET C05.1)
- APPROXIMATE TEMPORARY SEEDING LOCATIONS (REFER TO BROWNSBURG CONSTRUCTION STANDARDS)

NOTE:

THIS SOIL EROSION CONTROL PLAN DOES NOT CONSTITUTE A COMPLETE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A COMPLETE STORM WATER POLLUTION PLAN IN ACCORDANCE WITH THE GENERAL NPDES PER REQUIREMENTS INCLUDING BUT NOT LIMITED TO REPORTING, INSPECTIONS, MONITORING, ETC.

GENERAL SITE CONDITIONS:

1. ACCORDING TO THE U.S.D.A. WEB SOIL SURVEY, THE SITE CONSISTS OF SILTY LOAM.
2. TOTAL DISTURBED AREA = ±0.98 ACRES

SOIL EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF THE TOWN OF BROWNSBURG AND STATE OF INDIANA.
2. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR FOR EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND ANY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
4. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS. REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED AND A CERTIFICATE OF COMPLETION HAS BEEN ISSUED BY THE TOWN OF BROWNSBURG FOR THE SESC PERMIT.
5. STAGING THE WORK SHALL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
6. SOIL EROSION CONTROL PRACTICES SHALL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.

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BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250

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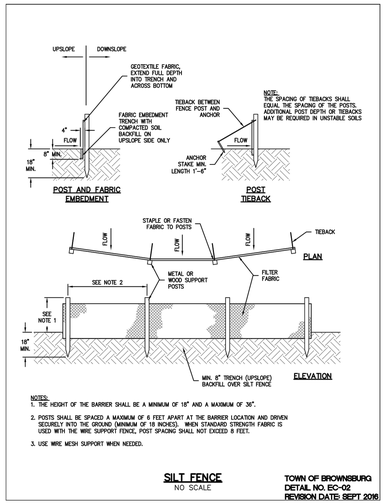
BROWNSBURG, IN 46112

S.E.S.C. PLAN

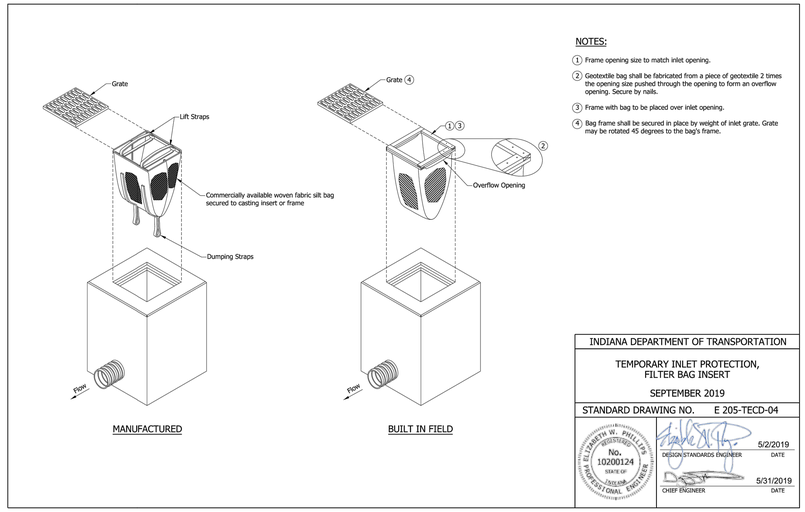
C05.0

SCALE: 1"=20'



SILT FENCE
NO SCALE

TOWN OF BROWNSBURG
DETAIL NO. EC-02
REVISION DATE: SEPT 2016



MANUFACTURED BUILT IN FIELD

NOTES:

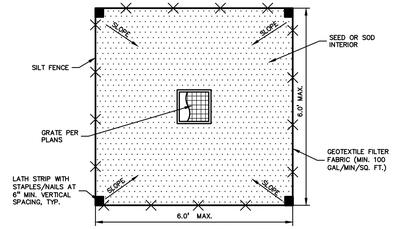
(1) Frame opening size to match inlet opening.

(2) Geotextile bag shall be fabricated from a piece of geotextile 2 times the opening size pushed through the opening to form an overflow opening. Secure by nails.

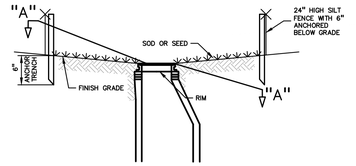
(3) Frame with bag to be placed over inlet opening.

(4) Bag frame shall be secured in place by weight of inlet grate. Grate may be rotated 45 degrees to the bag's frame.

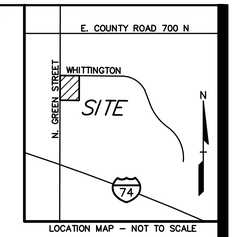
INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY INLET PROTECTION, FILTER BAG INSERT SEPTEMBER 2019	
STANDARD DRAWING NO. E 205-TECD-04	
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	5/2/2019 DESIGN STANDARDS ENGINEER DATE 5/31/2019 CHIEF ENGINEER DATE



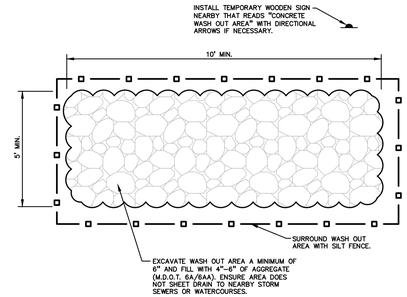
SECTION "A–A"



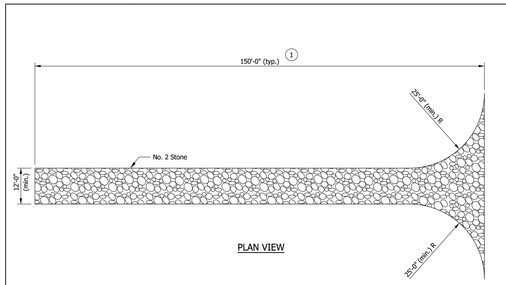
PROFILE VIEW IN UNPAVED AREA
SILT FENCE DRAINAGE GUARD DETAIL
NOT TO SCALE



LOCATION MAP – NOT TO SCALE

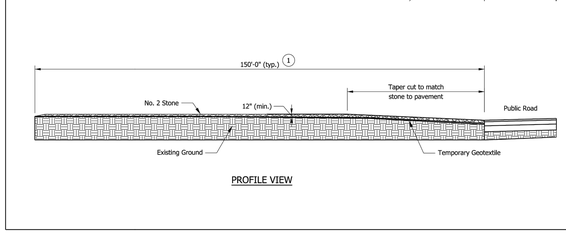


CONCRETE TRUCK WASH OUT AREA DETAIL
NOT TO SCALE



NOTE:

(1) May be reduced as justified by site conditions, but shall not be less than 50 ft.



INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY EROSION CONTROL PERIMETER CONSTRUCTION ENTRANCE SEPTEMBER 2019	
STANDARD DRAWING NO. E 205-TECD-12	
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	5/2/2019 DESIGN STANDARDS ENGINEER DATE 5/31/2019 CHIEF ENGINEER DATE

SEQUENCE OF CONSTRUCTION:

START DAY	END DAY	
1	5	INSTALL CRUSHED CONCRETE ACCESS APPROACH AT SITE ROAD APPROACH.
1	5	INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES, SILT FENCES, INLET PROTECTION, ETC. AS NECESSARY.
1	10	REMOVE ALL VEGETATION, TREES AND BRUSH FROM THE PROPOSED CONSTRUCTION AREA UNLESS MARKED TO REMAIN. STRIP AND STOCKPILE TOPSOIL AS REQUIRED RESTORATION. ALL STOCKPILES MUST BE GRADED AND SEEDED.
5	10	REMOVE ALL PAVEMENT, CURB, UTILITIES, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE TOPOGRAPHIC SURVEY AND DEMOLITION PLAN.
5	15	DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON–SITE BURN OR BURY PITS ALLOWED.
10	20	ROUGH GRADE SITE. SEED AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR RE–INSTALL ANY TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.
20	30	INSTALL SITE UTILITIES (STORM SEWER, SANITARY SEWER, WATER MAIN ETC.). INSTALL INLET PROTECTION AT ALL PROPOSED CATCH BASINS.
20	90	TEMPORARY SEEDING MUST BE PROVIDED IN AREAS NOT TO BE WORKED ON FOR 15 DAYS OR LONGER.
30	80	BEGIN CONSTRUCTION OF BUILDING.
70	80	FINE GRADE SITE AND PREPARE FOR SITE PAVING OPERATIONS.
80	100	INSTALL ALL PAVEMENT, SIDEWALKS, CURBING AS PROPOSED. IF PERMANENT LANDSCAPING IS NOT TO BE INSTALLED SOON AFTER PAVING IS COMPLETE, ALL AREAS WITHIN 20 FEET OF BACK OF CURB MUST BE TEMPORARILY SEEDED. REPAIR INLET PROTECTION, SILT FENCE AND ANY OTHER DAMAGED SOIL EROSION CONTROL MEASURES AS NECESSARY.
90	119	FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.
118	120	CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE–ESTABLISH VEGETATION AS REQUIRED.
120	120	REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY SEEDING:

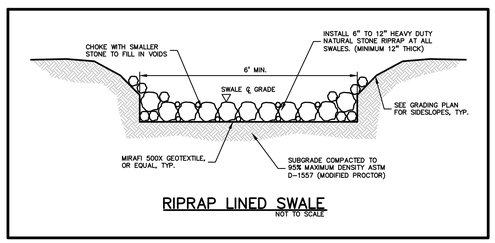
SEEDBED PREPARATION:
1. TEST SOIL TO DETERMINE PH AND NUTRIENT LEVELS
2. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRES OF 12–12–12 ANALYSIS FERTILIZER, OR EQUIVALENT.
3. WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.

SEEDING:
1. SELECT A SEED SPECIES OR AN APPROPRIATE SEED MIXTURE AND APPLICATION RATE FROM TABLE 1.
2. APPLY SEED UNIFORMLY WITH A DRILL OR CULTIPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER SEED TO THE DEPTH SHOWN IN TABLE 1.
3. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
4. CHECK FOR EROSION OR MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
5. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (80 PERCENT DENSITY); RESEED, FERTILIZE, AND APPLY MULCH WHERE NECESSARY.
6. IF NITROGEN DEFICIENCY IS APPARENT, TOP–DRESS FALL SEEDED WHEAT OR RYE SEEDING WITH 50 POUNDS PER ACRES OF NITROGEN IN FEBRUARY OR MARCH.

APPLICATION NOTES:
1. IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED–TO–SOIL CONTACT BY FIRMING THE SEEDBED WITH A ROLLER OR CULTIPACKER AFTER COMPLETING SEEDING OPERATIONS.
2. DAILY SEEDING WHEN THE SOIL IS MOIST IS USUALLY MOST EFFECTIVE.
3. IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.
4. APPLY MULCH AND ANCHOR IT IN PLACE.

TABLE 1. TEMPORARY SEEDING SPECIFICATIONS

SEED SPECIES	RATE PER ACRE	PLANTING DEPTH	OPTIMUM DATES
WHEAT OR RYE	150 LBS.	1 TO 1.5 INCHES	SEPT. 15 – OCT 30
SPRING OATS	100 LBS.	1 INCH	MARCH 1 – APRIL 15
ANNUAL RYEGRASS	40 LBS.	0.25 INCHES	MARCH 1 – MAY 1 AUG. 1 – SEPT. 1
GERMAN MILLET	40 LBS.	1 TO 2 INCHES	MAY 1 – JUNE 1
SUDANGRASS	35 LBS.	1 TO 2 INCHES	MAY 1 – JULY 30
BUCKWEHEAT	60 LBS.	1 TO 2 INCHES	APRIL 15 – JUNE 1
CONRN (BROADCAST)	300 LBS.	1 TO 2 INCHES	MAY 11 – AUG. 10
SORGHUM	35 LBS.	1 TO 2 INCHES	MAY 1 – JULY 15



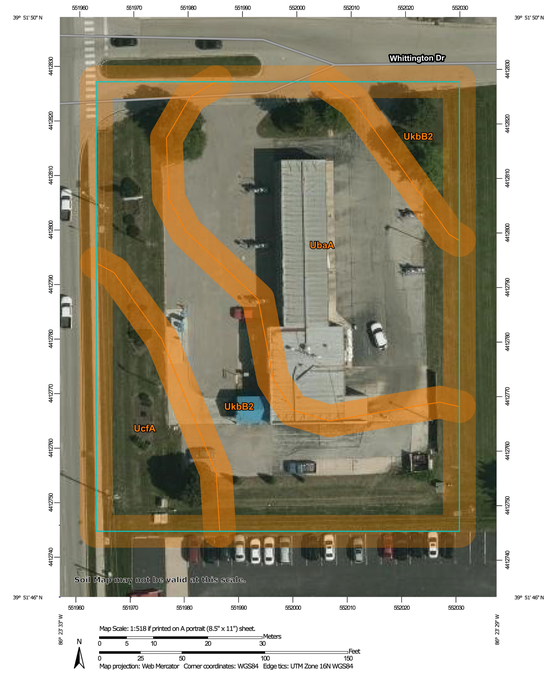
RIPRAP LINED SWALE
NOT TO SCALE

Soil Map—Hendricks County, Indiana

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UbaA	Urban land-Brookston complex, 0 to 2 percent slopes	0.6	42.6%
UcfA	Urban land-Crosby silt loam complex, fine-loamy subsoil, 0 to 2 percent slopes	0.2	13.7%
UkbB2	Urban land-Miami silt loam complex, 2 to 6 percent slopes, eroded	0.6	43.7%
Totals for Area of Interest		**1.4**	**100.0%**

Soil Map—Hendricks County, Indiana



USDA Natural Resources Conservation Service — Web Soil Survey, National Cooperative Soil Survey — 10/27/2020 Page 1 of 3

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PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250

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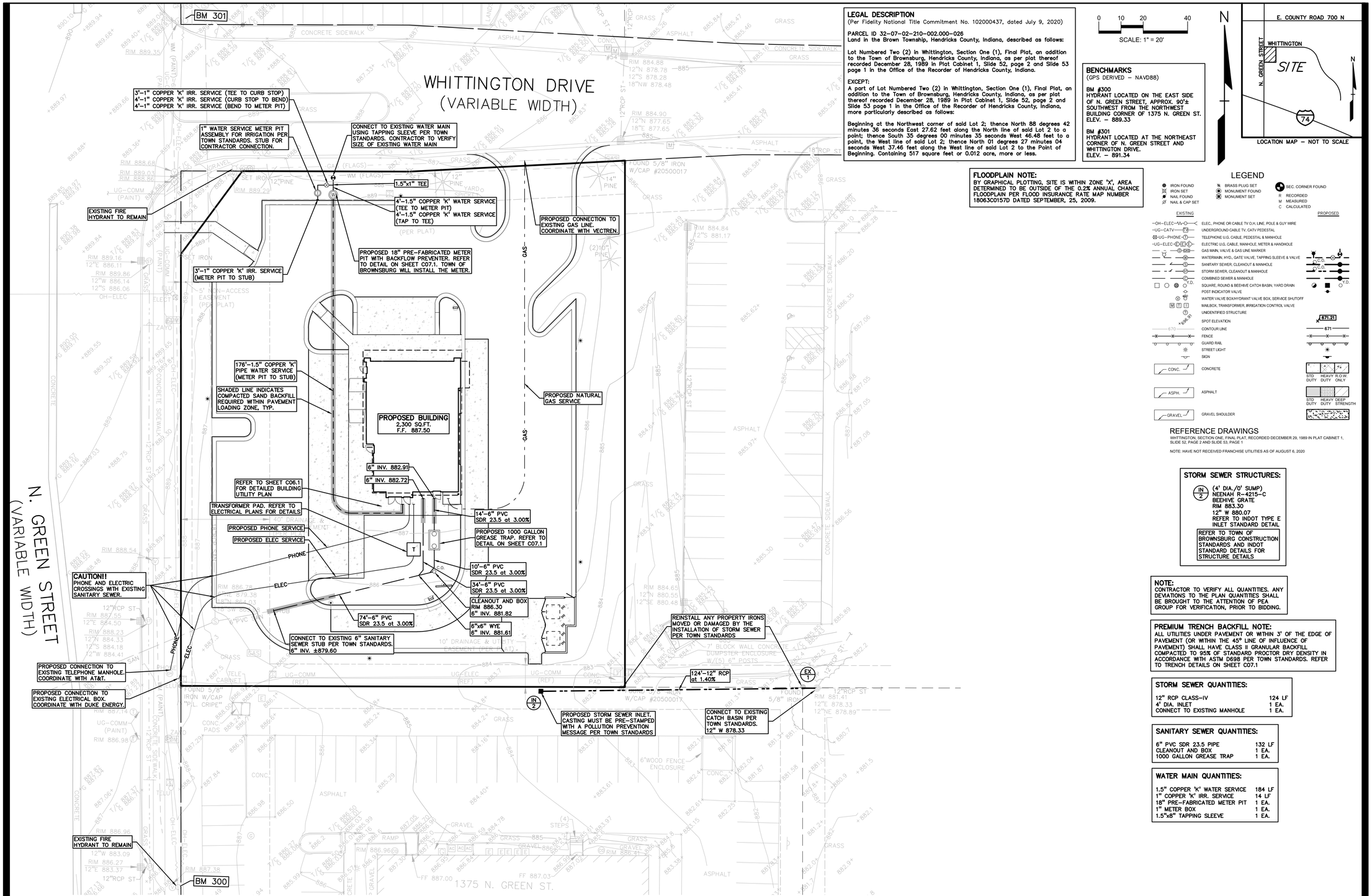
1395 N. GREEN ST
BROWNSBURG, IN 46112

S.E.S.C. DETAILS

C05.1

SCALE: 1"=20'

TRUE WARM & WELCOME 2300 R4



LEGAL DESCRIPTION

(Per Fidelity National Title Commitment No. 102000437, dated July 9, 2020)

PARCEL ID 32-07-02-210-002.000-026
Land in the Brown Township, Hendricks County, Indiana, described as follows:

Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana.

EXCEPT:
A part of Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana, more particularly described as follows:

Beginning at the Northwest corner of said Lot 2; thence North 88 degrees 42 minutes 36 seconds East 27.62 feet along the North line of said Lot 2 to a point; thence South 35 degrees 00 minutes 35 seconds West 46.48 feet to a point, the West line of said Lot 2; thence North 01 degrees 27 minutes 04 seconds West 37.46 feet along the West line of said Lot 2 to the Point of Beginning. Containing 517 square feet or 0.012 acre, more or less.

SCALE: 1" = 20'

BENCHMARKS

(GPS DERIVED – NAVD88)

BM #300
HYDRANT LOCATED ON THE EAST SIDE OF N. GREEN STREET, APPROX. 90'± SOUTHWEST FROM THE NORTHWEST BUILDING CORNER OF 1375 N. GREEN ST.
ELEV. – 889.33

BM #301
HYDRANT LOCATED AT THE NORTHEAST CORNER OF N. GREEN STREET AND WHITTINGTON DRIVE.
ELEV. – 891.34

FLOODPLAIN NOTE:

BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 18063C0157D DATED SEPTEMBER, 25, 2009.

LEGEND

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R RECORDED
- M MEASURED
- C CALCULATED

EXISTING	PROPOSED	
OH-ELEC		ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
UG-CATV		UNDERGROUND CABLE TV, CATV PEDESTAL
UG-PHONE		TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
UG-ELEC		ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
GAS		GAS MAIN, VALVE & GAS LINE MARKER
W		WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE
S		SANITARY SEWER, CLEANOUT & MANHOLE
S		STORM SEWER, CLEANOUT & MANHOLE
C		COMBINED SEWER & MANHOLE
		SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
		POST INDICATOR VALVE
		WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
U T I		MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
?		UNIDENTIFIED STRUCTURE
671.21		SPOT ELEVATION
670	671	CONTOUR LINE
		FENCE
		GUARD RAIL
		STREET LIGHT
		SIGN
CONC.		CONCRETE
ASPH.		ASPHALT
GRAVEL		GRAVEL SHOULDER

STD DUTY | HEAVY DUTY | R.O.W. ONLY

STD DUTY | HEAVY DUTY | DEEP STRENGTH

REFERENCE DRAWINGS

WHITTINGTON, SECTION ONE, FINAL PLAT. RECORDED DECEMBER 29, 1989 IN PLAT CABINET 1, SLIDE 52, PAGE 2 AND SLIDE 53, PAGE 1

NOTE: HAVE NOT RECEIVED FRANCHISE UTILITIES AS OF AUGUST 6, 2020

STORM SEWER STRUCTURES:

(IN 2) (4' DIA./0' SUMP)
NEENAH R-4215-C
BEEHIVE GRATE
RIM 883.30
12" W 880.07
REFER TO INDOT TYPE E INLET STANDARD DETAIL

REFER TO TOWN OF BROWNSBURG CONSTRUCTION STANDARDS AND INDOT STANDARD DETAILS FOR STRUCTURE DETAILS

NOTE:
CONTRACTOR TO VERIFY ALL QUANTITIES. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF PEA GROUP FOR VERIFICATION, PRIOR TO BIDDING.

PREMIUM TRENCH BACKFILL NOTE:
ALL UTILITIES UNDER PAVEMENT OR WITHIN 3' OF THE EDGE OF PAVEMENT (OR WITHIN THE 45° LINE OF INFLUENCE OF PAVEMENT) SHALL HAVE CLASS II GRANULAR BACKFILL COMPACTED TO 95% OF STANDARD PROCTOR DRY DENSITY IN ACCORDANCE WITH ASTM D698 PER TOWN STANDARDS. REFER TO TRENCH DETAILS ON SHEET C07.1

STORM SEWER QUANTITIES:

12" RCP CLASS-IV	124 LF
4' DIA. INLET	1 EA.
CONNECT TO EXISTING MANHOLE	1 EA.

SANITARY SEWER QUANTITIES:

6" PVC SDR 23.5 PIPE	132 LF
CLEANOUT AND BOX	1 EA.
1000 GALLON GREASE TRAP	1 EA.

WATER MAIN QUANTITIES:

1.5" COPPER 'K' WATER SERVICE	184 LF
1" COPPER 'K' IRR. SERVICE	14 LF
18" PRE-FABRICATED METER PIT	1 EA.
1" METER BOX	1 EA.
1.5"x8" TAPPING SLEEVE	1 EA.

STORM SEWER SYSTEM DESIGN - 10-year

I = 5.85 Intensity taken from Hendrick's County Technical Stormwater Manual, Table 2-4
C = 0.86
T = 10 (min.) Pipe "n" Value = 0.013

FROM STR	TO STR	AREA (A) (Acres)	COEF. C	A x C	TOTAL AREA (AxC)	TOTAL AREA (Acres)	TIME t (min.)	INT. I (in/hr)	FLOW Q (cfs)	PIPE CAP. (cfs)	PIPE DIA. (in.)	PIPE LENGTH (ft.)	PIPE SLOPE (%)	MIN HG PER "Q"	VEL. FULL (ft./sec)	TIME FLOW (min.)	H.G.L. ELEV. UP STREAM	H.G.L. ELEV. DOWN STREAM	RIM ELEV. UP STREAM	RIM ELEV. DOWN STREAM	INVERT ELEV. UP STREAM	INVERT ELEV. DOWN STREAM	PIPE COVER UP STREAM	PIPE COVER DOWN STREAM	HGL COVER UP STREAM	HGL COVER DOWN STREAM
2	1	0.86	0.69	0.59	0.59	0.86	10.00	5.85	3.47	4.22	12	124	1.40	0.95%	5.4	0.4	880.87	879.13	883.30	881.41	880.07	878.33	2.06	1.91	2.43	2.28

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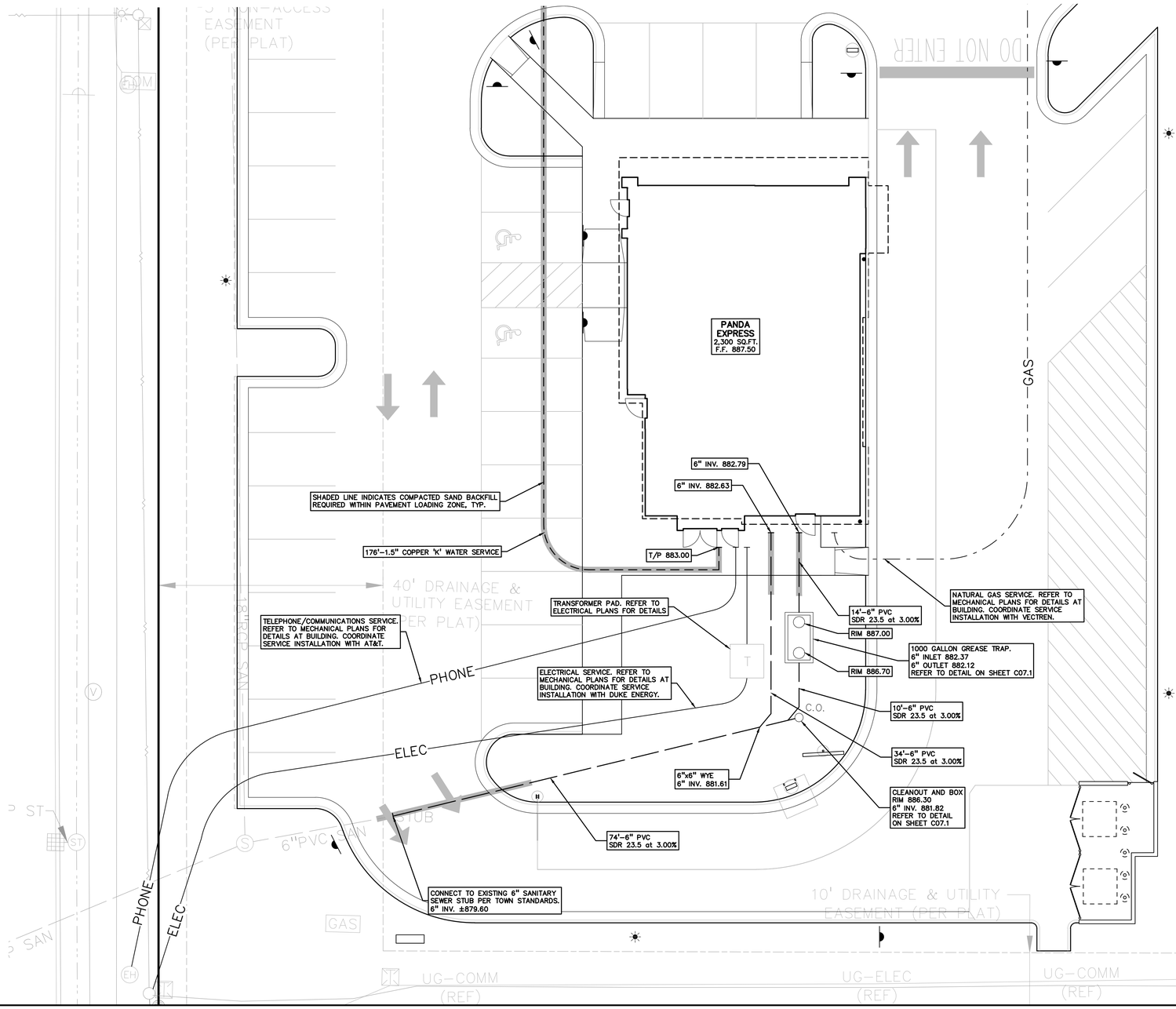
UTILITY PLAN

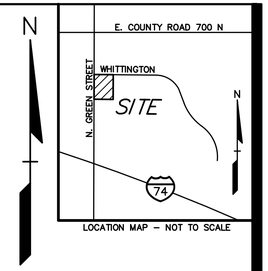
C06.0

SCALE: 1"=20'



0 5 10 20

SCALE: 1" = 10'



LOCATION MAP – NOT TO SCALE

LEGEND

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R RECORDED
- M MEASURED
- C CALCULATED

EXISTING		PROPOSED
OH–ELEC–V	ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE	
UG–CATV–TV	UNDERGROUND CABLE TV, CATV PEDESTAL	
UG–PHONE–T	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE	
UG–ELEC–E	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE	
GAS	GAS MAIN, VALVE & GAS LINE MARKER	
W	WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE	
S	SANITARY SEWER, CLEANOUT & MANHOLE	
ST	STORM SEWER, CLEANOUT & MANHOLE	
C	COMBINED SEWER & MANHOLE	
	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN	
	POST INDICATOR VALVE	
W	WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF	
U T I	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
	UNIDENTIFIED STRUCTURE	
×671.21	SPOT ELEVATION	×671.21
670	CONTOUR LINE	671
	FENCE	
	GUARD RAIL	
	STREET LIGHT	
	SIGN	
CONC.	CONCRETE	STD DUTY; HEAVY DUTY; R.O.W. ONLY
ASPH.	ASPHALT	STD DUTY; HEAVY DUTY; DEEP STRENGTH
GRAVEL	GRAVEL SHOULDER	

REFERENCE DRAWINGS

WHITTINGTON, SECTION ONE, FINAL PLAT, RECORDED DECEMBER 29, 1989 IN PLAT CABINET 1, SLIDE 52, PAGE 2 AND SLIDE 53, PAGE 1

NOTE: HAVE NOT RECEIVED FRANCHISE UTILITIES AS OF AUGUST 6, 2020

PREMIUM TRENCH BACKFILL NOTE:
ALL UTILITIES UNDER PAVEMENT OR WITHIN 3' OF THE EDGE OF PAVEMENT (OR WITHIN THE 45° LINE OF INFLUENCE OF PAVEMENT) SHALL HAVE CLASS II GRANULAR BACKFILL COMPACTED TO 95% OF STANDARD PROCTOR DRY DENSITY IN ACCORDANCE WITH ASTM D698 PER TOWN STANDARDS. REFER TO TRENCH DETAILS ON SHEET C07.1

811. Know what's below. Call before you dig.

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:

BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250

RACHEL LYNN SMITH REGISTERED No. 12000492 STATE OF INDIANA PROFESSIONAL ENGINEER

PEA GROUP
t: 844.813.2949
www.peagroup.com

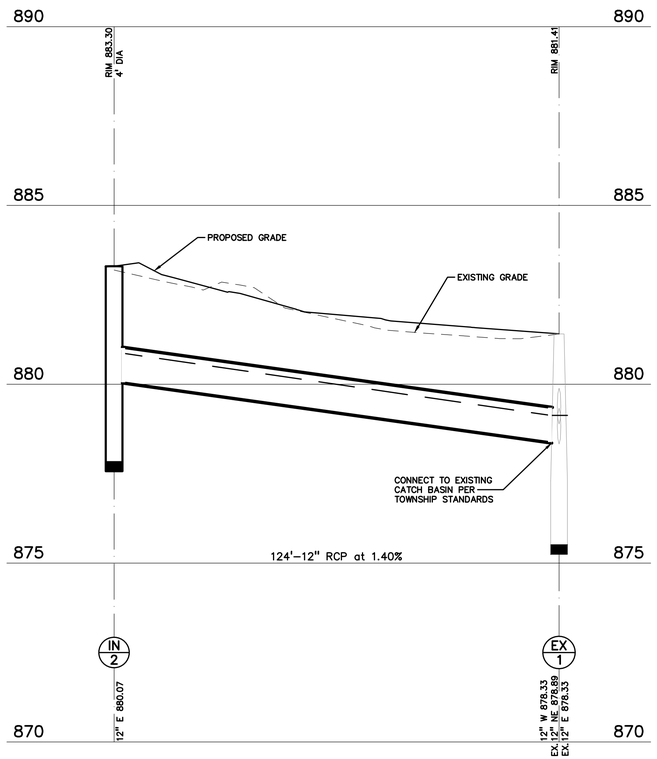
PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

UTILITY DETAIL PLAN

C06.1

SCALE: 1"=10'

TRUE WARM & WELCOME 2300 R4



STORM SEWER PROFILE

HORIZ: 1" = 20'
VERT: 1" = 2'

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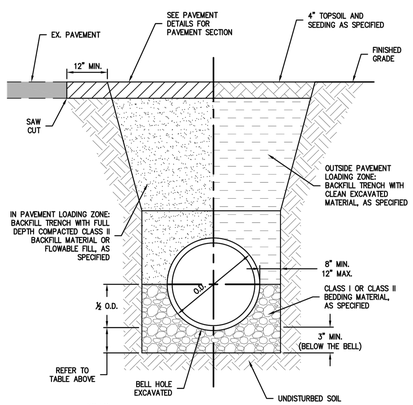
STORM SEWER PROFILE

C06.2

SCALE: 1"=20'

PIPE SIZE	12" TO 15"	18" TO 30"	36" & OVER
BEDDING BELOW THE PIPE BARREL	4"	O.D. / 4	8"

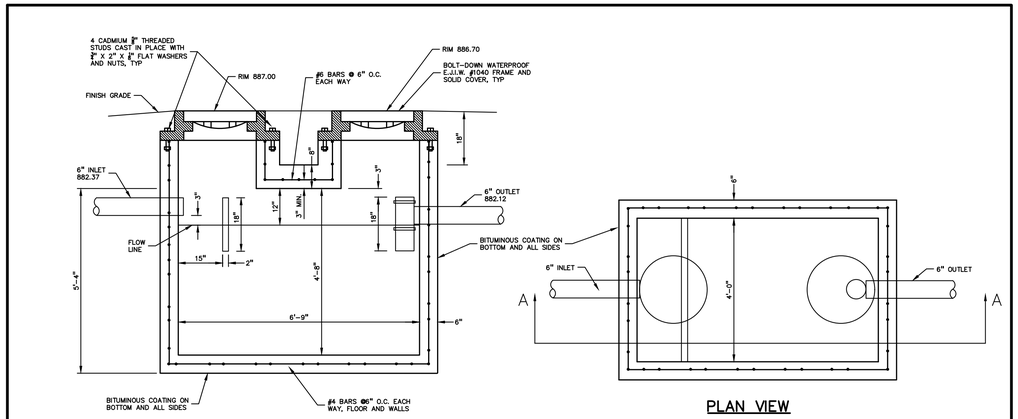


NOTES:
1. RIGID PIPE MATERIALS FOR STORM SEWERS INCLUDE DUCTILE IRON AND REINFORCED CONCRETE PIPE (RCP).
2. RIGID PIPE MATERIALS FOR SANITARY SEWERS INCLUDE DUCTILE IRON PIPE.
3. PAVEMENT LOADING ZONE IS THE AREA WITHIN 5 FEET OF ANY EDGE OF PAVEMENT, CURB, GUTTER, SIDEWALK OR SIMILAR STRUCTURE.

RIGID GRAVITY PIPE TRENCH

NO SCALE

TOWN OF BROWNSBURG
DETAIL NO. OT-02
REVISION DATE: SEPT 2016



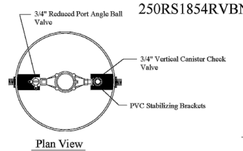
SECTION A–A

PLAN VIEW

1000 GALLON EXTERIOR GREASE TRAP DETAIL

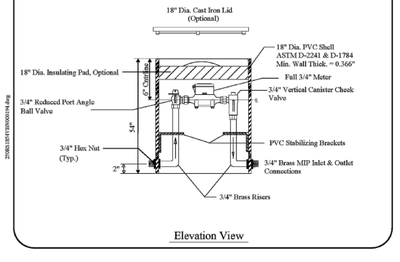
NOT TO SCALE

MUELLER / HUNT
18-Inch Diameter EZ-Setter Meter Pit for 3/4-Inch Meter
250RS1854RVBN000194



Plan View

NOTE: Meter not Included.



Elevation View

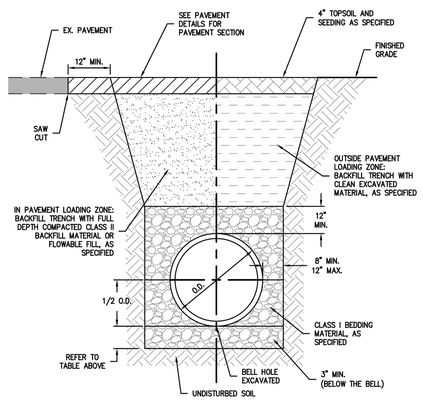
NOTE: SEE DETAIL NO. DW-14 FOR WATER TAP AND METER SET INSTALLATION SPECIFICATIONS

18" METER SET FOR SINGLE METER INSTALLATION

NO SCALE

TOWN OF BROWNSBURG
DETAIL NO. DW-16
REVISION DATE: SEPT 2016

PIPE SIZE	12" TO 15"	18" TO 30"	36" & OVER
BEDDING BELOW THE PIPE BARREL	4"	O.D. / 4	8"



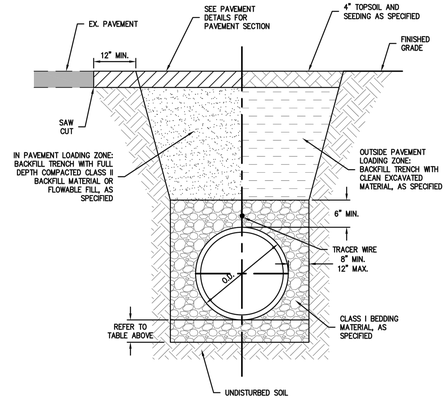
NOTES:
1. INSTALLATION OF FLEXIBLE PIPE SHALL BE IN ACCORDANCE WITH ASTM D2321.
2. FLEXIBLE PIPE MATERIALS FOR STORM SEWERS INCLUDE HIGH DENSITY POLYETHYLENE (HDPE), POLYPROPYLENE, AND POLYVINYL CHLORIDE (PVC) PIPE.
3. FLEXIBLE PIPE MATERIALS FOR SANITARY SEWERS INCLUDE POLYVINYL CHLORIDE (PVC) PIPE.
4. PAVEMENT LOADING ZONE IS THE AREA WITHIN 5 FEET OF ANY EDGE OF PAVEMENT, CURB, GUTTER, SIDEWALK OR SIMILAR STRUCTURE.

FLEXIBLE GRAVITY PIPE TRENCH

NO SCALE

TOWN OF BROWNSBURG
DETAIL NO. OT-04
REVISION DATE: FEB 2017

PIPE SIZE	12" TO 15"	18" TO 30"	36" & OVER
BEDDING BELOW THE PIPE BARREL	4"	O.D. / 4	8"

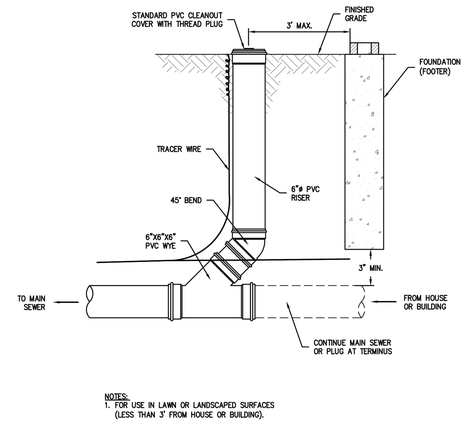


NOTES:
1. FLEXIBLE PIPE MATERIALS FOR FORCE MAINS INCLUDE POLYVINYL CHLORIDE (PVC) PIPE.
2. PAVEMENT LOADING ZONE IS THE AREA WITHIN 5 FEET OF ANY EDGE OF PAVEMENT, CURB, GUTTER, SIDEWALK OR SIMILAR STRUCTURE.

FLEXIBLE PRESSURE PIPE TRENCH

NO SCALE

TOWN OF BROWNSBURG
DETAIL NO. OT-03
REVISION DATE: SEPT 2016



NOTES:
1. FOR USE IN LAWN OR LANDSCAPED SURFACES (LESS THAN 3' FROM HOUSE OR BUILDING).

TYPE 1 CLEANOUT

NO SCALE

TOWN OF BROWNSBURG
DETAIL NO. SS-03
REVISION DATE: SEPT 2016

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CIVIL PROJECT #: 2020-0250

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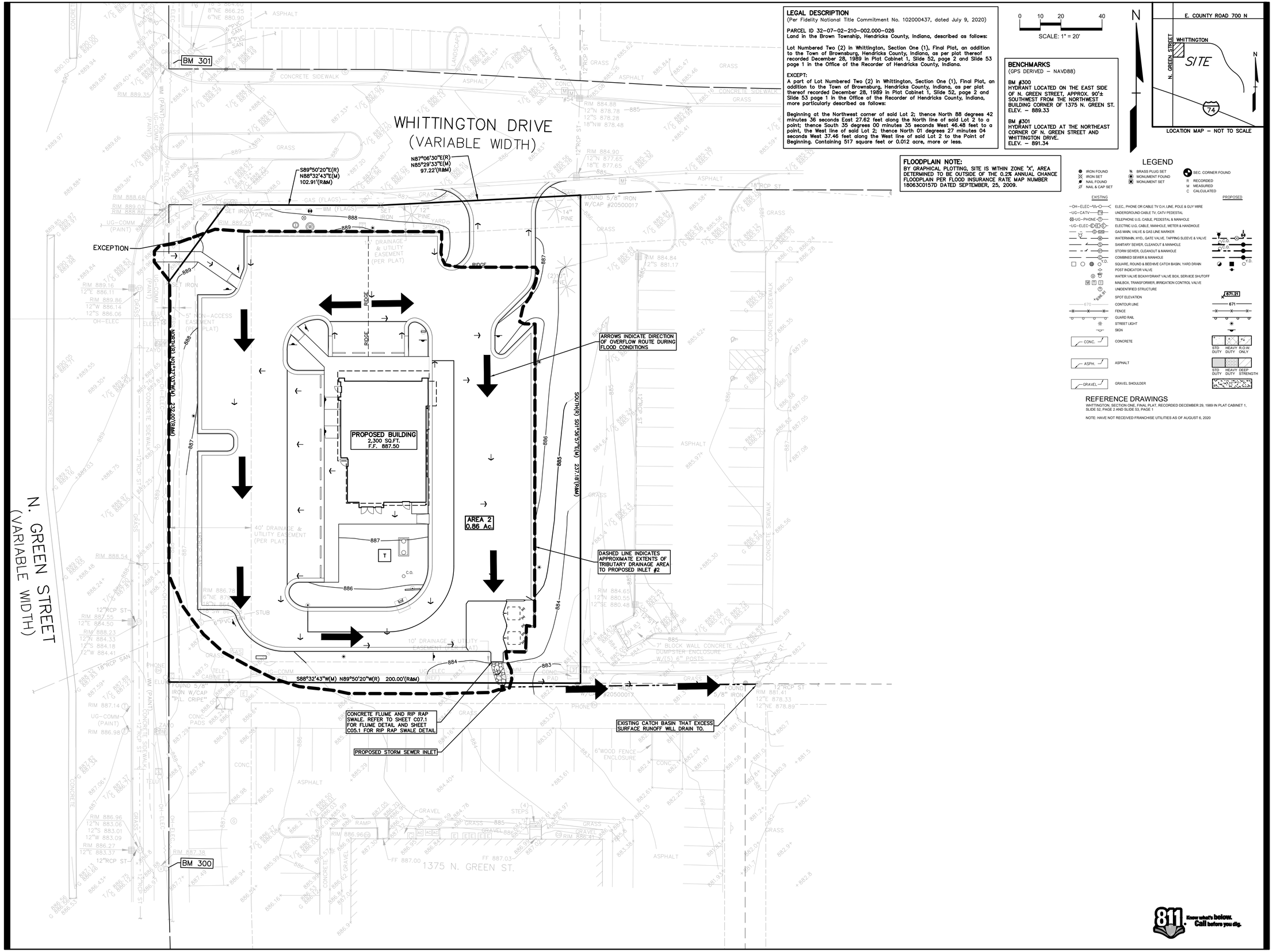
DETAILS

C07.1



LEGAL DESCRIPTION

(Per Fidelity National Title Commitment No. 102000437, dated July 9, 2020)

PARCEL ID 32-07-02-210-002.000-026
Land in the Brown Township, Hendricks County, Indiana, described as follows:

Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana.

EXCEPT:
A part of Lot Numbered Two (2) in Whittington, Section One (1), Final Plat, an addition to the Town of Brownsburg, Hendricks County, Indiana, as per plat thereof recorded December 28, 1989 in Plat Cabinet 1, Slide 52, page 2 and Slide 53 page 1 in the Office of the Recorder of Hendricks County, Indiana, more particularly described as follows:

Beginning at the Northwest corner of said Lot 2; thence North 88 degrees 42 minutes 36 seconds East 27.62 feet along the North line of said Lot 2 to a point; thence South 35 degrees 00 minutes 35 seconds West 46.48 feet to a point, the West line of said Lot 2; thence North 01 degrees 27 minutes 04 seconds West 37.46 feet along the West line of said Lot 2 to the Point of Beginning. Containing 517 square feet or 0.012 acre, more or less.

FLOODPLAIN NOTE:

BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 18063C0157D DATED SEPTEMBER, 25, 2009.

0 10 20 40
SCALE: 1" = 20'

BENCHMARKS

(GPS DERIVED – NAVD88)

BM #300
HYDRANT LOCATED ON THE EAST SIDE OF N. GREEN STREET, APPROX. 90'± SOUTHWEST FROM THE NORTHWEST BUILDING CORNER OF 1375 N. GREEN ST.
ELEV. – 889.33

BM #301
HYDRANT LOCATED AT THE NORTHEAST CORNER OF N. GREEN STREET AND WHITTINGTON DRIVE.
ELEV. – 891.34

LEGEND

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R RECORDED
- M MEASURED
- C CALCULATED

EXISTING		PROPOSED
OH–ELEC	ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE	
UG–CATV	UNDERGROUND CABLE TV, CATV PEDESTAL	
UG–PHONE	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE	
UG–ELEC	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE	
GAS	GAS MAIN, VALVE & GAS LINE MARKER	
WM	WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE	
S	SANITARY SEWER, CLEANOUT & MANHOLE	
ST	STORM SEWER, CLEANOUT & MANHOLE	
C	COMBINED SEWER & MANHOLE	
	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN	C.B. / Y.D.
	POST INDICATOR VALVE	
	WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF	
U T I	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
? UNKNOWN	UNIDENTIFIED STRUCTURE	
671.21	SPOT ELEVATION	671.21
670	CONTOUR LINE	671
	FENCE	
	GUARD RAIL	
	STREET LIGHT	
	SIGN	
CONC.	CONCRETE	STD DUTY / HEAVY DUTY / R.O.W. ONLY
ASPH.	ASPHALT	STD DUTY / HEAVY DUTY / DEEP STRENGTH
GRAVEL	GRAVEL SHOULDER	

REFERENCE DRAWINGS

WHITTINGTON, SECTION ONE, FINAL PLAT. RECORDED DECEMBER 29, 1989 IN PLAT CABINET 1, SLIDE 52, PAGE 2 AND SLIDE 53, PAGE 1

NOTE: HAVE NOT RECEIVED FRANCHISE UTILITIES AS OF AUGUST 6, 2020

811. Know what's below. Call before you dig.

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DRAWN BY: LGD

PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250

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PANDA EXPRESS

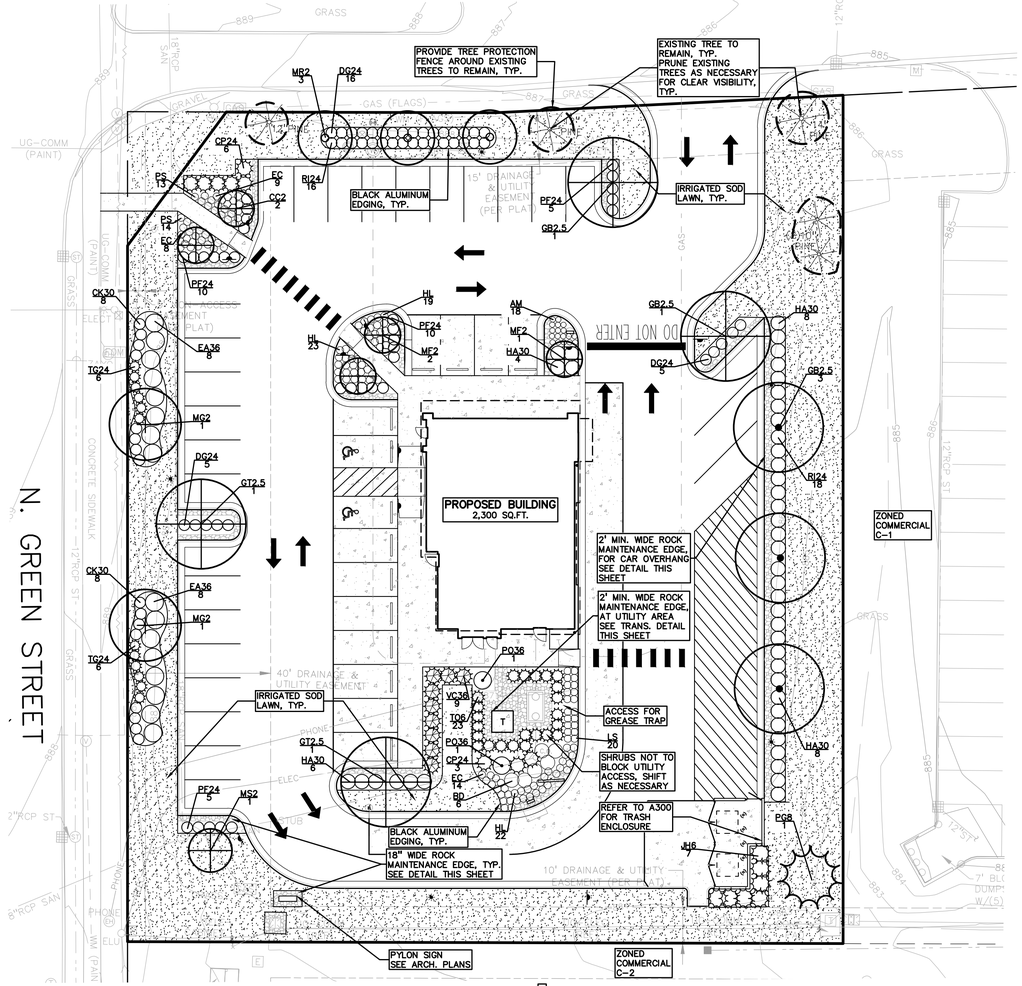
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

FLOOD ROUTING PLAN

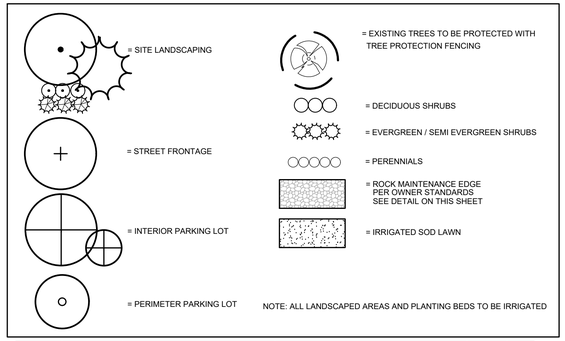
C08.1

SCALE: 1"=20'

TRUE WARM & WELCOME 2300 R4

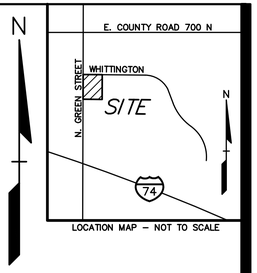


KEY



NOTE: ALL LANDSCAPED AREAS AND PLANTING BEDS TO BE IRRIGATED

SCALE: 1" = 20'



LOCATION MAP – NOT TO SCALE

DECIDUOUS TREE PLANT LIST:

QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
2	CC2	The Rising Sun Redbud	*Cercis canadensis 'JNZ' PP 21451 (single stem)*	2" Cal.	B&B
5	GB2.5	Magyar Ginkgo	*Ginkgo biloba 'Magyar' (seedless)*	2.5" Cal.	B&B
2	GT2.5	Sunburst Honeylocust	*Gleditsia triacanthos f. inermis 'Suncole'*	2.5" Cal.	B&B
1	MS2	Sargent Crabapple	*Malus sargentii*	2" Cal.	B&B
3	MF2	Firebird Crabapple	*Malus sargentii 'Select A' PP 12621*	2" Cal.	B&B
2	MG2	Golden Raindrops Crabapple	*Malus 'Schmidtcutleaf'*	2" Cal.	B&B
3	MR2	Royal Raindrops Crab	*Malus 'JFS-KW5 PP 14375' (bright pink, upright)*	2" Cal.	B&B
18	TOTAL DEC.				

EVERGREEN TREE PLANT LIST:

QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
1	PG8	White Spruce	*Picea glauca*	8' Ht.	B&B
1	TOTAL EVG.				

SHRUB PLANT LIST:

QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
9	CP24	Dwarf Golden Threadleaf Falsecypress	*Chamaecyparis pisifera 'Filifera Aurea Nana'*	24" Ht.	Cont.
16	CK30	Kelseyi Dwarf Red-Osier Dogwood	*Cornus sericea 'Kelseyi'*	30" Ht.	Cont.
26	DG24	Dwarf Slender Deutzia	*Deutzia gracilis 'Yuki Cherry Blossom'*	24" Ht.	Cont.
16	EA36	Compact Burning Bush	*Euonymous alatus 'Compactus'*	36" Ht.	Cont.
26	HA30	Invincibelle Spirit II Hydrangea	*Hydrangea arborescens 'NCHA2'*	30" Ht.	Cont.
7	JH6	Hetz Columnar Juniper	*Juniperus chinensis 'Hetzii Columnaris'*	6' Ht.	B&B
2	PO36	Diabolo Ninebark	*Physocarpus opulifolius 'Diabolo'*	36" Ht.	Cont.
30	PF24	Abbotswood Potentilla	*Potentilla fruticosa 'Abbotswood'*	24" Ht.	Cont.
34	RI24	Alpine Currant	*Ribes alpinum 'Green Mound'*	24" Ht.	Cont.
23	TO6	Emerald Green Arborvitae	*Thuja occidentalis 'Emerald Green'*	6' Ht.	B&B
12	TG24	Gold Tuffet Dwarf Arborvitae	*Thuja occidentalis 'Golden Tuffet'*	24" Ht.	Cont.
9	VC36	Koreanspice Viburnum	*Viburnum carlesii*	36" Ht.	Cont.
210	TOTAL SHRUB				

PERENNIAL PLANT LIST:

QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
18	AM	Lady's Mantle	*Alchemilla mollis*	1 Gal.	Cont.
6	BD	Royal Red Butterfly Bush	*Buddleia davidii 'Royal Red'*	1 Gal.	Cont.
31	EC	Cheyenne Spirit Coneflower	*Echinacea 'Cheyenne Spirit'*	1 Gal.	Cont.
64	HL	Little Wine Cup Daylily	*Hemerocallis 'Little Wine Cup'*	1 Gal.	Cont.
20	LS	Kobold Blazing Star	*Liatris spicata 'Kobold'*	1 Gal.	Cont.
27	PS	Emerald Blue Creeping Phlox	*Phlox subulata 'Emerald Blue'*	1 Gal.	Cont.
166	TOTAL PER.				

LANDSCAPE CALCULATIONS:

PER TOWN OF BROWNSBURG, INDIANA ZONING ORDINANCE, ZONED C–1, MODERATE INTENSITY GENERAL COMMERCIAL DISTRICT

SITE LANDSCAPING

REQUIRED: 2 SHADE TREES, 2 EVG TREES, 3 ORN TREES, 16 LARGE SHRUBS, PER 5,000 SQ. FT GROSS BUILDING AREA

2,300 SQ FT / 5,000= .96 SHADE, .96 EVG TREES, 1.38 ORN, 7.36 LARGE SHRUBS

PROVIDED: 1 SHADE TREE (CREDITED TO INTERIOR PARKING), 3 SHADE TREES PER PANDA EXPRESS STANDARDS, 1 EVG TREE, 2 ORN TREES (CREDITED TO INTERIOR PARKING), 9 LARGE SHRUBS

STREET FRONTAGE

REQUIRED: ANY COMBINATION OF MATERIALS TO EQUAL OR EXCEED A UNIT VALUE OF 3.0 PER 100 LF, PER SECTION 5.37(B)6

N. GREEN ST: 220 LF / 100 LF = 2.2 x 3.0 = VALUE 6.6

PROVIDED:
N GREEN ST: 2 DEC. ORN TREES (1.0), 32 DEC. HEDGE SHRUBS (=3.2), 18 EVG. SHRUBS (=2.7)
=6.9 UNIT VALUE

INTERIOR PARKING LOT LANDSCAPE

REQUIRED: 1 TREE AND 5 SHRUBS PER PARKING ISLAND + ISLAND TERMINUS
1 ISLANDS = 1 TREES AND 5 SHRUBS
9 TERMINUS = 9 TREES AND 45 SHRUBS

PROVIDED: 2 "SITE LANDSCAPING" ORN. TREES, 8 DEC. TREES AND 50 SHRUBS

PERIMETER PARKING LOT LANDSCAPE

REQUIRED: 1 TREE PER 30 LF YARD LENGTH. 1 MED. SHRUB PER 3' YARD LENGTH

NORTH: 96 LF/30 = 3.2 TREES, 96 LF/3 = 32 SHRUBS
WEST: 155 LF/30 = 5.16 TREES, 155 LF/3 = 51.6 SHRUBS

PROVIDED:
TREES AND SHRUBS FULFILLED BY OTHER REQUIREMENTS, SEE BELOW

NORTH: 3 EX. 10" CAL. EVG. TREES, 3 DEC. ORN TREES, 32 "STREET FRONTAGE" SHRUBS
WEST: 3 "PARKING LOT" DEC. TREES, 2 "STREET FRONTAGE" ORN. TREES, 44 "STREET FRONTAGE" SHRUBS, 20 "INTERIOR PARKING" SHRUBS

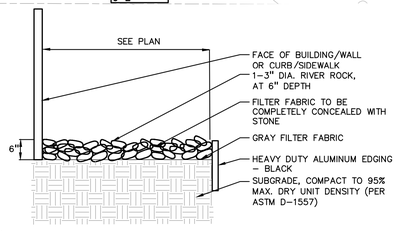
TRASH FACILITY SCREENING:

REQUIRED: ALL TRASH DUMPSTERS CONSISTING OF 2 OR MORE LOADING SPACES SHALL BE SCREENED FROM OTHER ZONING DISTRICTS AND ALL ADJ. PUBLIC STREETS

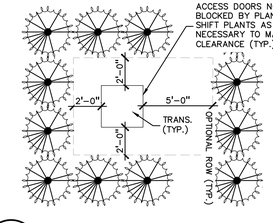
PROVIDED: 7, 6' HT. EVG. SHRUBS AT DUMPSTER
23, 6' HT. EVG. SHRUBS AT TRANSFORMER (PLANTS TO BE TALLER THAN TRANSFORMER)

GENERAL PLANTING NOTES:

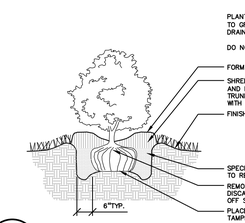
1. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING **INDIANA 811, 1–800–382–5544.** ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO COMMENCING.
3. ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO. 1. GRADE.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
5. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
6. ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
7. ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
8. ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.
9. ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.
10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
11. NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES; HAND GRADE ALL LAWN AREAS WITHIN THE DRIP LINE OF EXISTING TREES.
12. ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
13. IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL BUILDINGS.
14. ALL PLANTING BEDS SHALL RECEIVE 3" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL NOT BE ACCEPTED.
15. ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED TOPSOIL.
16. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY STANDARDS.



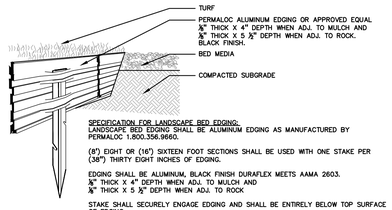
5 ROCK MAINTENANCE EDGE DETAIL
NOT TO SCALE



3 TRANSFORMER SCREENING DETAIL
NOT TO SCALE



1 SHRUB PLANTING DETAIL
NOT TO SCALE



7 ALUMINUM EDGE DETAIL
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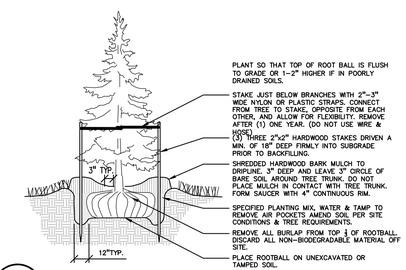
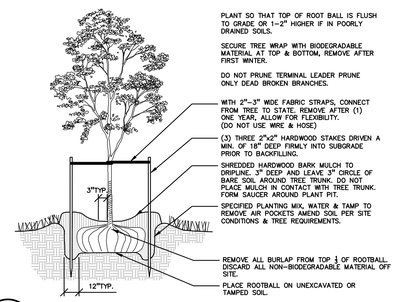
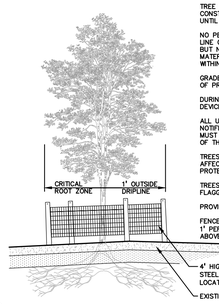


6 EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE



4 DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



2 TREE PROTECTION DETAIL
NOT TO SCALE

811 Know what's below. Call before you dig.

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:

	BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059
CIVIL PROJECT #: 2020-0250

NOAH A. BIRMINGHAM, REGISTERED No. LA 20200144 STATE OF INDIANA LANDSCAPE ARCHITECT

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

OVERALL LANDSCAPE PLAN
L01.0
SCALE: 1"=20'

TRUE WARM & WELCOME 2300 R4

GENERAL LANDSCAPING REQUIREMENTS

1.0 GENERAL

1.1 SUMMARY

1.1.1 Includes But Not Limited To

1. General procedures and requirements for Site Work.

2.0 PRODUCTS — Not Used

3.0 EXECUTION

3.1 PREPARATION

3.1.1 Protection

1. Spillage:

A. Avoid spillage by covering and securing loads when hauling on or adjacent to public streets or highways.

B. Remove spillage and sweep, wash, or otherwise clean project, streets, and highways.

2. Erosion Control:

A. Take precautions necessary to prevent erosion and transportation of soil downstream, to adjacent properties, and into on–site or off–site drainage systems.

B. Develop, install, and maintain an erosion control plan if required by law.

C. Repair and correct damage caused by erosion.

3. Existing Plants And Features:

A. Do not damage tops, trunks, and roots of existing trees and shrubs on site which are intended to remain.

B. Do not use heavy equipment within branch spread. Interfering branches may be removed only with permission of Landscape Architect.

C. Do not damage other plants and features which are to remain.

3.1.2 If specified precautions are not taken or corrections and repairs made promptly, Owner may take such steps as may be deemed necessary and deduct costs of such from monies due to Contractor. Such action or lack of action on Owner's part does not relieve Contractor from responsibility for proper protection of the Work.

END OF SECTION

LANDSCAPING PREPARATION

1.0 GENERAL

1.1 SUMMARY

1.1.1 Includes But Not Limited To

1. General landscape work requirements.

1.2 QUALITY ASSURANCE

1.2.1 Comply with all applicable local, state and federal requirements, regarding materials, methods of work, and disposal of excess and waste materials.

1.2.2 Obtain and pay for all required inspections, permits, and fees.

1.2.3 Provide notices required by governmental authorities.

1.3 PROJECT CONDITIONS

1.3.1 Locate and identify existing underground and overhead services and utilities within contract limit work areas. (Call Miss Dig: 1–800–482–7171 in Michigan).

1.3.2 Provide adequate means to protect utilities and services designated to remain.

1.3.3 Repair utilities damaged during site work operations at Subcontractor's expense.

1.3.4 When uncharted or incorrectly charted underground piping or other utilities and services are encountered during site work operations, notify the applicable utility company immediately to obtain procedure directions. Cooperate with the applicable utility company in maintaining active services in operation.

1.3.5 Locate, protect, and maintain benchmarks, monuments, control points and project engineering reference points. Re–establish disturbed or destroyed items at Subcontractor's expense.

1.3.6 Perform landscape work operations and the removal of debris and materials to assure minimum interference with streets, walks, and other adjacent facilities.

1.3.7 Obtain governing authorities' written permission when required to close or obstruct streets, walks and adjacent facilities. Provide alternate routes around closed or obstructed traffic ways when required by governing authorities.

1.3.8 Protect and maintain street lights, utility poles and services, traffic signal control boxes, curb boxes, valves and other services, except items designated for removal.

1.3.9 The General Contractor will occupy the premises and adjacent facilities during the entire period of construction. Perform landscape work operations to minimize conflicts and to facilitate General Contractor's use of the premises and conduct of his normal operations.

1.3.10 Perform landscape preparation work before commencing landscape construction.

1.3.11 Provide necessary barricades, coverings and protection to prevent damage to existing improvements indicated to remain.

1.3.12 Protect existing trees scheduled to remain against injury or damage including cutting, breaking or skinning of roots, trunks or branches, smothering by stockpiled construction materials, excavated materials or vehicular traffic within branch spread.

2.0 PRODUCTS

2.1 MATERIALS/EQUIPMENT

2.1.1 As selected by the General Contractor, except as indicated.

1. Tree protection:

A. Wood fencing — Snow fencing 4' height.

B. Posts — Steel fence post.

C. Herbicide for lawn restoration — "Round–up" by Monsanto.

3.0 EXECUTION

3.1 EXISTING UTILITIES

3.1.1 Call "MISS DIG" 811 before construction begins. Information on the drawings related to existing utility lines and services is from the best sources presently available. All such information is furnished only for information and is not guaranteed. Excavate test pits as required to determine exact locations of existing utilities.

3.2 CLEARING

3.2.1 Locate and suitably identify trees and improvements indicated to remain.

3.2.2 Fencing/soil erosion fence is to be installed.

3.2.3 Any equipment that compacts the soil in the areas of existing trees is not allowed.

3.2.4 Protect trees scheduled to remain with 4' high snow fence per plans.

3.2.5 No vehicular traffic is permitted beneath drip line at any time. All lawn areas are to be worked by hand.

3.2.6 Clear and grub areas within contract limits as required for site access and execution of the work.

3.2.7 Remove trees, plants, undergrowth, other vegetation and debris, except items indicated to remain.

3.2.8 Treat planting and lawn areas as required with herbicide per manufacturer recommendations to kill existing vegetation prior to planting, seeding and sodding.

3.2.9 Remove stumps and roots to a clear depth of 36" below subgrades. Remove stumps and roots to their full depth within 5'0" of underground structures, utility lines, footings, and paved areas.

3.3 DISPOSAL OF WASTE MATERIALS

3.3.1 Stockpile, haul from site and legally dispose of waste materials and debris. Accumulation is not permitted.

3.3.2 Maintain disposal routes, clear, clean and free of debris.

3.3.3 On site burning of combustible cleared materials is not permitted.

3.3.4 Upon completion of landscape preparation work, clean areas within contract limits, remove tools and equipment. Site to be clear, clean and free of materials and debris and suitable for site work operations.

3.3.5 Materials, items and equipment not scheduled for reinstallation or salvaged for the General Contractor are the property of the Landscape Contractor. Remove cleared materials from the site as the work progresses. Storage and sale of Landscape Contractors salvage items on site is not permitted.

END OF SECTION

FINISH GRADING AND TOPSOIL PLACEMENT

1.0 GENERAL

1.1 SUMMARY

1.1.1 Includes But Not Limited To

1. Perform finish grading and topsoil placement required to prepare site for installation of landscaping as described in Contract Documents.

1.2 SUBMITTALS

1.2.1 Quality Assurance

1. Submit test on imported topsoil and on site stockpiled topsoil by independent licensed testing laboratory prior to use. Imported topsoil shall meet minimum specified requirements and be approved by Landscape Architect prior to use.

2. Provide and pay for testing and inspection during topsoil operations. Laboratory, inspection services, and Soils Engineer shall be acceptable to the Landscape Architect.

3. Submit report stating location of source of imported topsoil and account of recent use.

4. Test for pH factor, mechanical analysis, and percentage of organic content.

5. Submit test reports to General Contractor.

6. Sub–Contractor, or testing agency to make recommendations on type of quantity of additives required to establish satisfactory pH factor and supply of nutrients to bring nutrients to satisfactory level for planting.

1.3 QUALITY ASSURANCE

1.3.1 Participate in pre–installation meeting with Landscape Architect.

1.4 PROJECT CONDITIONS

1.4.1 Also see Landscape Preparation Section.

1.4.2 Protect existing trees, plants, lawns, and other features designated to remain as part of the landscaping work.

1.4.3 Promptly repair damage to adjacent facilities caused by topsoil operations. Cost of repair at Subcontractor's expense.

1.4.4 Promptly notify the General Contractor and Landscape Architect of unexpected subsurface conditions.

2.0 PRODUCTS

2.1 MATERIALS

2.1.1 Topsoil: supplied and stockpiled topsoil proposed for use must meet the testing criteria results specified. Topsoil must conform to adjustments and recommendations from the soil test and by the Landscape Architect.

2.1.2 Existing topsoil: existing topsoil from on–site stockpile shall be utilized. All processing, cleaning, and preparation of this stored topsoil to render it acceptable for use is the responsibility of the Subcontractor.

2.1.3 Provide additional topsoil as required to complete the job. Topsoil must meet testing criteria results specified.

2.1.4 All processing, cleaning, and preparation of this supplied topsoil to render it acceptable for use is the responsibility of the Subcontractor.

2.1.5 Supplied and stockpiled topsoil, shall be fertile, friable, dark in color and representative of local productive soil, capable of sustaining vigorous plant growth and free of clay lumps, subsoil, noxious weeds or other foreign matter such as stones of 1" in any dimension, roots, sticks, and other extraneous material: not frozen or muddy. PH of soil range between 5.0 and 7.5

2.1.6 Soil shall not contain more than 2 percent of particles measuring over 2.0 mm in largest size

2.1.7 Prepared topsoil shall be used in planting mixtures as specified in Trees, Plants, and Ground Cover; all beds prepared as specified.

3.0 EXECUTION

3.1 EXAMINATION

3.1.1 Do not commence work of this Section until grading tolerances specified are met.

3.2 PREPARATION

3.2.2 Prior to grading, dig out weeds from planting areas by their roots and remove from site. Before placing top soil in landscape areas, remove rocks larger than 1 inch in any dimension and foreign matter such as building rubble, wire, cans, sticks, concrete, etc.

3.2.3 Prior to placing topsoil, remove any imported base material present in planting areas down to natural subgrade or other material acceptable to Landscape Architect.

3.3 PERFORMANCE

3.3.1 Site Tolerances

1. Total Topsoil Depth —

A. Lawn And Groundcover Planting Areas — 3 inches minimum compacted.

B. Shrub Planting Areas — 12 inches minimum throughout entire shrub bed area.

2. Elevation of topsoil relative to walks or curbs —

A. Seeded Lawn Areas — 1/4 inch below

B. Sodded Lawn Areas — 1 1/2 inches below

C. Shrub And Ground Cover Areas — 3 inches below

3.3.2 Do not expose or damage existing shrub or tree roots.

3.3.3 Redistribute approved existing top soil stored on site as a result of rough grading. Remove organic material, rocks and clods greater than 1 inch in any dimension, and other objectionable materials. Provide additional approved imported topsoil required for specified topsoil depth and bring surface to specified elevation relative to walk or curb.

3.3.4 For trees, shrubs, ground cover beds and plant mix for beds see Exterior Plants section.

3.3.5 Provide earth berming where indicated on Plans.

3.3.6 Berming to be free flowing in shape and design, as indicated, and to blend into existing grades gradually so that the toe of slope is not readily visible. Landscape Architect or General Contractor's representative to verify final contouring before planting.

3.3.7 Regardless of finish grading elevations indicated, it is intended that grading be such that proper drainage of surface water away from buildings will occur and that no low areas are created to allow ponding. Subcontractor to consult the General Contractor and Landscape Architect regarding variations in grade elevations before rough grading is completed.

3.3.8 Slope grade away from building for 12 feet minimum from walls at slope of 1/2 inch per ft minimum unless otherwise noted. High point of finish grade at building foundation shall be 6 inches minimum below finish floor level. Direct surface drainage in manner indicated on Drawings by molding surface to facilitate natural run–off of water. Fill low spots and pockets with top soil and grade to drain properly.

3.3.9 Rake all topsoil to remove clods, rocks, weeds, and debris.

3.3.10 Grade and shape area to bring surface to true uniform planes free from irregularities and to provide proper drainage and slopes per plans.

3.4 CLEANING

3.4.1 Upon completion of topsoil operations, clean areas within contract limits, remove tools, equipment, and haul all excess topsoil off–site. Site shall be clear, clean, free of debris, and suitable for site work operations.

END OF SECTION

LAWN SEEDING

1.0 GENERAL

1.1 SUMMARY

1.1.1 Includes But Not Limited To

1. Furnish and install seeded lawn as described in Contract Documents.

1.2 SUBMITTALS

1.2.1 Submit seed vendor's certification for required grass seed mixture, indicating percentage by weight, and percentage of purity, germination, and weed seed for each grass species.

1.3 DELIVERY AND STORAGE

1.3.1 Deliver seed and fertilizer materials in original unopened containers, showing weight, analysis, and name of manufacturer. Store in a manner to prevent wetting and deterioration.

1.4 PROJECT CONDITIONS

1.4.1 See landscape preparation section.

1.4.2 Work notification: Notify Landscape Architect of General Contractor's representative at least seven (7) working days prior to start of seeding operation.

1.4.3 Protect existing utilities, paving, and other facilities from damage caused by seeding operations.

1.4.4 Perform seeding work only after planting and other work affecting ground surface has been completed.

1.4.5 Provide hose and lawn watering equipment as required.

1.4.6 The irrigation system will be installed prior to seeding. Locate, protect, and maintain the irrigation system during seeding operations. Repair irrigation system components damaged during seeding operations at the Sub–Contractor's expense.

1.5 WARRANTY

1.5.1 See Landscape Maintenance and Warranty Section

2.0 PRODUCTS

2.1 MATERIALS

2.1.1 Topsoil for Seeded Areas: See Topsoil Placement and Drawings.

2.1.2 Lawn seeded areas: Fresh, clean and new crop seed mixture. Mixed by approved methods.

2.1.3 Seed mixture composed of the following varieties, mixed to the specified proportions by weight and tested to minimum percentages of purity and germination.

2.1.4 Irrigated Lawn Seed Mixture proportioned by volume as indicated below:

SEED TYPE	PROPORTION	PURITY	GERMINATION
Kentucky Bluegrass	50%	90%	75%
Penn Lawn Fescue	30%	95%	80%
Annual Ryegrass	20%	95%	80%

2.1.5 Non–Irrigated Seed Mixture proportioned by volume as indicated below:

SEED TYPE	PROPORTION	PURITY	GERMINATION
Penn Lawn Fescue	60%	90%	85%
Kentucky 28# Common Bluegrass	20%	90%	90%
Pennfine Perennial Rye	20%	90%	90%

2.1.6 Fertilizer: granular, non burning product composed of not less that 50% organic slow acting, guaranteed analysis professional fertilizer.

2.1.7 Ground Limestone: Used if required by soil test report: Containing not less than 85% of total carbonates and ground to such fineness that 50% will pass through a 100 mesh sieve and 90% will pass through a 20% mesh sieve.

2.1.8 Straw Mulch: Used in crimping process only. Clean oat or wheat straw well seasoned before baling, free from mature seed–bearing status, or roots of prohibited or noxious weeds.

2.1.9 Water: Free of substance harmful to seed growth. Hoses or other methods to transpiration furnished by Sub Contractor.

3.0 EXECUTION

3.1 INSPECTION

3.1.1 Landscape Architect or General Contractor's representative must approve finish surfaces, grades, topsoil quality and depth. Do not start seeding work until unsatisfactory conditions are corrected.

3.2 PREPARATION

3.2.1 SURFACE PREPARATION

1. Seven days maximum prior to seeding, —

A. Treat Lawn areas if required with "Round–Up" by Monsanto, per label direction to kill existing vegetation prior to seeding.

B. Loosen topsoil areas to minimum depth of 4", dampen thoroughly, and cultivate to properly break up clods and lumps.

C. Rake area to remove clods, rocks, weeds, roots, debris, and stones over 1" in any dimension.

D. Grade lawn areas to smooth, free draining even surface with a loose, moderately coarse texture. Roll and rake, remove ridges, and fill depressions as required to drain.

E. Apply limestone to supplied topsoil if required by soil test report at rate determined by the soil test, to adjust pH of topsoil to not less than 6.0 no more that 6.8. Distribute evenly by machine and incorporate thoroughly into topsoil.

F. Apply fertilizers to indicated turf areas at a rate equal to 1 lb. of actual nitrogen 1,000 sq. ft. (43 lbs / acre).

G. Apply fertilizers by mechanical rotary or drop type distributor, thoroughly and evenly incorporated with soil to a depth of 1" by approved method. Fertilize areas inaccessible to power equipment with hand tools and incorporate into soil.

H. After lawn areas have been prepared, take no heavy objects over them except lawn rollers.

I. After preparation of lawn areas and with topsoil in semi–dry condition, roll lawn planting areas in two directions at approximately right angles with water ballast roller weighing 100 to 300 lbs according to soil type.

J. Rake or scarify and cut or fill irregularities that develop as required until area is true and uniform, free from lumps, depressions, and irregularities.

K. Restore prepared areas to specified condition if eroded, settled or otherwise disturbed after fine grading and prior to seeding.

3.3 INSTALLATION

3.3.1 SEEDING

1. Seed lawns only between April 1, and June 1, and fall seeding between August 15, and October 15, or at such other times acceptable to Landscape Architect.

2. Seed immediately after preparation of bed. Seed indicated areas within contract Limits and areas adjoining contract limits disturbed as a result of construction operations.

3. Perform seeding operations when the soil is dry and when the winds do not exceed five(5) miles per hour velocity.

4. Apply seed with a rotary or drop type distributor. Install seed evenly by sowing equal quantities in two (2) directions, at right angles to each other.

5. Sow seed at a rate of 300 lbs./acre.

6. After seeding, rake or drag surface of soil lightly to incorporate seed into top 1/8" of soil. Roll with light lawn roller.

7. Provide soil erosion planting mat where grade conditions required to stabilize the planting area.

3.3.2 HYDRO–SEEDING

1. Hydro–seeding: The application of grass seed and a wood cellulose fiber mulch tinted green shall be accomplished in one operation by use of an approved spraying machine.

A. Mix seed, fertilizer, and wood cellulose fiber in required amount of water to produce a homogeneous slurry. Add wood cellulose fiber after seed, water, and fertilizer have been thoroughly mixed and apply at the rate of 200 pounds per acre dry weight.

B. For hydro–seeding, wood cellulose fiber shall be used. Silva–Fiber Mulch by Weyerhaeuer Company, Tacoma, WA (800–443–9179).

C. Hydraulically spray material on ground to form a uniform cover impregnated with grass seed.

D. Immediately following application of slurry mix, make separate application of wood cellulose mulch at the rate of 1,000 pounds, dry weight, per acre.

E. Apply cover so that rainfall or applied water will percolate to underlying soil.

3.3.3 MULCHING

1. Place straw mulch on seeded areas within 24–hours after seeding.

2. Place straw mulch uniformly in a continuous blanket at a rate of 2–1/2 tons per acre, or two (2) 50 lb. bales per 1,000 sq. ft. of area. A mechanical blower may be used for straw mulch application when acceptable to the Landscape Architect.

3. Crimp straw into soil by use of a "crimper". Two passes in alternate direction required. Alternative methods on areas too small for crimper must be approved by the Landscape Architect or Owner's Representative.

3.3.3 ESTABLISH LAWN

1. Establish dense lawn of permanent grasses, free from lumps and depressions. Any area failing to show uniform germination to be reseeded; continue until dense lawn established.

2. Damage to seeded area resulting from erosion to be repaired by Sub Contractor.

3. In event Sub Contractor does not establish dense lawn during first germination period, return to project to refertilize and reseed to establish dense lawn.

4. Should the seeded lawn become largely weeds after germination, Sub Contractor is responsible to kill the weeds and reseed the proposed lawn areas to produce a dense turf, as specified.

3.4 CLEANING

3.4.1 Perform Cleaning during installation of the work and upon completion of the work to the approval of the Landscape Architect. Remove from site all excess materials, debris, and equipment. Repair damage resulting from seeding operations.

3.5 MAINTENANCE

3.5.1 See Landscape Maintenance and Warranty Section.

3.6 ACCEPTANCE

3.6.1 See Landscape Maintenance and Warranty Section.

END OF SECTION

LAWN SODDING

1.0 GENERAL

1.1 SUMMARY

1.1.1 Includes But Not Limited To

1. Furnish and install sodded lawn as described in Contract Documents.

1.2 QUALITY ASSURANCE

1.2.1 Sod: Comply with American Sod Producers Association (ASPA) classes of sod materials.

1.3 SUBMITTALS

1.3.1 Submit sod growers certification of grass species. Identify source location.

1.3.2 Submit manufacturer's certification of fertilizer.

1.4 DELIVERY, STORAGE, AND HANDLING

1.4.1 Cut, deliver, and install sod within 24 hour period.

1.4.2 Do not harvest or transport sod when moisture content may adversely affect sod survival.

1.4.3 Protect sod from sun, wind, and dehydration prior to installation. Do not tear, stretch, or drop sod during handling and installation.

1.4.4 Sod which dries out before installation will be rejected.

1.5 PROJECT CONDITIONS

1.5.1 See Landscape Preparation section.

1.5.2 Work notification: Notify Landscape Architect or General Contractor's representative at least seven (7) working days prior to start of sodding operation.

1.5.3 Protect existing utilities, paving, and other facilities from damage caused by sodding operations.

1.5.4 Perform sodding work only after planting and other work affecting ground surface has been completed.

1.5.5 Restrict traffic from lawn areas until grass is established. Erect signs and barriers as required.

1.5.6 Provide hose and lawn watering equipment as required.

1.5.7 The irrigation system will be installed prior to sodding. Locate, protect, and maintain the irrigation system during sodding operations. Repair irrigation system components damaged during sodding operations at the Subcontractor's expense.

1.6 WARRANTY

1.6.1 See Landscape Maintenance and Warranty Section.

2.0 PRODUCTS

2.1 MATERIALS

2.1.1 Sod: An "approved" nursery grown blend of improved Kentucky Bluegrass varieties.

2.1.2 Sod containing Common Bermudagrass, Quackgrass, Johnsongrass, Poison Ivy, Nutsedge, Nimblewill, Canada Thistle, Timothy, Bentgrass, Wild Garlic, Ground Ivy, Perennial Sorrel, or Bramegrass weeds will not be acceptable.

2.1.3 Provide well rooted, healthy sod, free of diseases, nematodes and soil borne insects. Provide sod uniform in color, leaf texture, density, and free of weeds, undesirable grasses, stones, roots, thatch, and extraneous material; viable and capable of growth and development when planted.

2.1.4 Furnish sod, machine stripped in square pads or strips not more than 3'–0" long; uniformly 1" to 1–1/2" thick with clean cut edges. Mow sod before stripping.

2.1.5 Fertilizer: granular, non burning product composed of not less that 50% organic slow acting, guaranteed analysis professional fertilizer.

2.1.6 Type A: starter fertilizer containing 20% nitrogen, 12% phosphoric acid, and 8% potash by by weight or similar approved composition.

2.1.7 Ground Limestone: Used if required by soil test report: Containing not less than 85% of total carbonates and ground to such fineness that 50% will pass through a 100 mesh sieve and 90% will pass through a 20% mesh sieve.

2.1.8 Stakes: softwood, 3/4" x 8" long.

2.1.9 Water: Free of substance harmful to seed growth. Hoses or other methods to transpiration furnished by Sub Contractor.

2.1.10 Topsoil: see Topsoil Placement section.

3.0 EXECUTION

3.1 INSPECTION

3.1.1 Landscape Architect or General Contractor's representative must approve finish surfaces, grades, topsoil quality and depth. Do not start sodding work until unsatisfactory conditions are corrected.

3.2 PREPARATION

3.2.1 Surface Preparation:

1. Seven days maximum prior to sodding, —

a. Treat Lawn areas if required with herbicide per manufacturer recommendations to kill existing vegetation prior to sodding.

b. Loosen topsoil areas to minimum depth of 4", dampen thoroughly, and cultivate to properly break up clods and lumps.

c. Rake area to remove clods, rocks, weeds, roots, debris, and stones over 1" in any dimension.

d. Grade lawn areas to smooth, free draining even surface with a loose, moderately coarse texture. Roll and rake, remove ridges, and fill depressions as required to drain.

e. Apply limestone to supplied topsoil if required by soil test report at rate determined by the soil test, to adjust pH of topsoil to not less than 6.0 no more that 6.8. Distribute evenly by machine and incorporate thoroughly into topsoil.

f. Apply fertilizers to indicated turf areas at a rate equal to 1 lb. of actual nitrogen 1,000 sq. ft. (43 lbs / acre).

g. Apply fertilizers by mechanical rotary or drop type distributor, thoroughly and evenly incorporated with soil to a depth of 1" by approved method. Fertilize areas inaccessible to power equipment with hand tools and incorporate into soil.

h. After lawn areas have been prepared, take no heavy objects over them except lawn rollers.

i. After preparation of lawn areas and with topsoil in semi–dry condition, roll lawn planting areas in two directions at approximately right angles with water ballast roller weighing 100 to 300 lbs.

j. Rake or scarify and cut or fill irregularities that develop as required until area is true and uniform, free from lumps, depressions, and irregularities.

k. Restore prepared areas to specified condition if eroded, settled or otherwise disturbed after fine grading and prior to sodding.

l. Dampen dry soil prior to sodding.

3.3 INSTALLATION

3.3.1 Sodding:

1. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips. Do not overlay edges. Stagger strips to offset joints in adjacent courses. Remove excess sod to avoid othering of adjacent grass. Provide sod pad top flush with adjacent curbs, sidewalks, drains, and seeded areas.

2. Do not lay dormant sod or install sod on saturated, frozen soil.

3. Install initial row of sod in a straight line, beginning at the bottom of slopes, perpendicular to direction of the sloped area. Place subsequent rows parallel to and lightly against previously installed row.

4. Peg sod on slopes greater than 3 to 1 or in centerline of swales to prevent slippage at a rate of 2 stakes per yard of sod.

5. Water sod thoroughly with a fine spray immediately after laying to obtain moisture penetration through sod into top 4 inches of topsoil.

6. Roll with light lawn roller in two directions perpendicular to each other to ensure contact with sub grade.

7. Install sod at indicated areas within contract limits and areas adjoining contract limits disturbed as a result of construction operations.

8. Damage to sodded area resulting from erosion to be repaired by Subcontractor.

3.4 CLEANING

3.4.1 Perform Cleaning during installation of the work and upon completion of the work to the approval of the Landscape Architect. Remove from site all excess materials, debris, and equipment. Repair damage resulting from sodding operations.

3.5 MAINTENANCE

3.5.1 See Landscape Maintenance and Warranty Section.

3.6 ACCEPTANCE

3.6.1 See Landscape Maintenance and Warranty Section.

END OF SECTION

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REVISIONS:

ISSUE DATE:

BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059

CIVIL PROJECT #: 2020-0250

NOAH A. BIRKEMEIER REGISTERED No. LA 20200144 STATE OF INDIANA LANDSCAPE ARCHITECT

PEA GROUP

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN ST
BROWNSBURG, IN 46112

LANDSCAPE SPECIFICATIONS

L02.1

EXTERIOR PLANTS

1.0 GENERAL

1.1 SUMMARY

1.1.1 Includes But Not Limited To

1. Furnish and install landscaping plants as described in Contract Documents.

1.2 QUALITY ASSURANCE

1.2.1 Plant names indicated, comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.

1.2.2 Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.

1.2.3 All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of two years.

1.2.4 Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional charge. Larger plants shall not be cut back to size indicated.

1.2.5 Provide "specimen" plants with a special height, shape, or character of growth. Landscape Subcontractor is to tag specimen trees or shrubs at the source of supply. The Landscape Subcontractor shall inspect all plant material at source prior to Landscape Architect's approval. Landscape Subcontractor shall accompany Landscape Architect on final selection trip. The Landscape Architect will inspect specimen selections for suitability and adaptability to selected location. When specimen plants cannot be purchased locally, provide sufficient photographs of the proposed specimen plants for approval.

1.2.6 Plants may be inspected and approved at the place of growth for compliance with specification requirements for quality, size, and variety.

1.2.7 Approval of plant selection at the place of growth shall not impair the right of inspection and rejection upon delivery at the site or during progress of the work.

1.2.8 Provide percolation testing by filling plant pits with water and monitoring length of time for water to completely percolate into soil. Submit test results to Landscape Architect prior to starting work.

1.2.9 Before proceeding with work, check and verify dimensions and quantities. Report variations between Drawings and site to Landscape Architect before proceeding with work of this section.

1.2.10 Plant totals are for convenience only and are not guaranteed. Verify amounts shown on Drawings. All plantings indicated on Drawings are required unless indicated otherwise.

1.3 SUBMITTALS

1.3.1 Provide and pay for material testing. Testing agency shall be acceptable to the Landscape Architect. Provide the following data:

1. The loss of weight by ignition and moisture absorption capacity shall be tested for peat moss.

1.3.2 Submit the following material samples to Landscape Architect:

1. Peat moss, shredded hardwood bark mulch, planting accessories, pre-emergent herbicides, and plant fertilizers.

1.3.3 Submit the following materials certification to Landscape Architect:

1. Topsoil source and ph value, peat moss, and plant fertilizer.

1.4 DELIVERY, STORAGE, AND HANDLING

1.4.1 Deliver fertilizer materials in original, unopened and undamaged containers showing weight, analysis, and name of manufacturer. Store in manner to prevent wetting and deterioration.

1.4.2 Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected.

1.4.3 Spray deciduous plants in foliage with an approved "Anti-Desiccant" immediately after digging to prevent dehydration.

1.4.4 Dig, pack, transport, and handle plants with care to ensure protection against injury.

1.4.5 Inspection certificates required by law shall accompany each shipment invoice or order to stock on arrival. The certificate shall be filed with the General Contractor's representative.

1.4.6 Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, shredded hardwood bark mulch, or in a manner acceptable to the General Contractor's representative.

1.4.7 Water heeled in plantings daily.

1.4.8 No plant shall be bound with rope or wire in a manner that could damage or break the branches.

1.4.9 Cover plants transported on open vehicles with a protective covering to prevent wind burn.

1.4.10 Frozen or muddy topsoil is not acceptable.

1.5 PROJECT CONDITIONS

1.5.1 See Landscape Preparation Section.

1.5.2 Work notification: notify Landscape Architect at least seven working days prior to installation of plant material.

1.5.3 Protect existing utilities, paving, and other facilities from damage caused by landscaping operations.

1.5.4 A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the proposal form. In the event that quantity discrepancies or material omissions occur in the proposal form, Subcontractor shall notify the Landscape Architect during the proposal bidding process.

1.5.5 An irrigation system will be installed prior to planting. Locate, protect, and maintain the irrigation system during planting operations. Repair irrigation system components, damaged during planting operations, at the Landscape Subcontractor's expense.

1.5.6 The Landscape Subcontractor shall inspect existing soil conditions in all areas of the site where his operations will take place, prior to the beginning of work. It is the responsibility of the Landscape Subcontractor to notify the General Contractor's representative and the Landscape Architect in writing of any conditions which could affect the survivability of plant material to be installed.

1.6 WARRANTY

1.6.1 See Landscape Maintenance and Warranty Standards.

2.0 PRODUCTS

2.1 MATERIALS

2.1.1 Plants: Provide plants typical of their species or variety; with normal, densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sunscald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces.

1. Dig balled and burlapped plants with firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock". Cracked or mushroomed balls are not acceptable.

2. All trees shall have clay or clay loam balls. Trees with sand balls will be rejected.

3. Provide tree species that mature at heights over 25'-0" with a single, main trunk. Trees that have the main trunk forming a "Y" shape are not acceptable.

4. Plants planted in rows shall be matched in form, (see specimen stock).

5. Plants larger than those specified in the plant list may be used when acceptable to the Landscape Architect.

6. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.

7. Evergreen trees shall be unsheared and branched to the ground.

8. Shrubs and small plants shall meet the requirements for spread and height indicated on the drawings.

9. Plant materials shall be subject to approval by the Landscape Architect as to size, health, quality, and character.

10. Bare root trees are not acceptable.

11. Provide plant materials from licensed nursery or grower.

2.1.2 Bare root plants: dug with adequate fibrous roots, to be covered with a uniformly thick coating of mud by being puddled immediately after they are dug or packed in moist straw or peat moss.

2.1.3 Container grown stock: grown in a container for sufficient length of time for the root system to have developed to hold its soil together, firm, and whole.

1. No plants shall be loose in the container.

2. Container stock shall not be root bound.

3. Single stemmed or thin plants will not be accepted.

4. Side branches shall be generous, well twigged, and the plant as a whole well bushed to the ground.

5. Plants shall be in a moist, vigorous condition, free from dead wood, bruises or other root or branch injuries.

2.1.4 Collected stock consists of plants growing under natural conditions in soils and climate as exist at location to be planted, in locations lending themselves to proper collecting practices. Root system (balls) to be at least twenty-five (25%) percent larger than specified for nursery grown material.

2.1.5 Specimen stock: all specimen designated plantings are to be nursery grown, fully developed, excellent quality, and typical example of the species. Plants designated to be planted in rows must be matched, symmetrical, and uniform in height, spread, caliper, and branching density.

1. Matched plantings should be obtained from the same nursery and, preferably, from the same row or line. All specimen material will be approved by the Landscape Architect at nursery.

2.1.6 Topsoil for planting mix: fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well drained arable site, reasonably free from clay, lumps, coarse sands, stones, plants, roots, sticks, and other foreign materials with acidity range of between ph 6.0 for ericaceous plants.

2.1.7 Peat moss: brown to black in color, weed and seed free granulated raw peat.

1. Provide ASTM D2607 sphagnum peat moss with a ph below 6.0 for ericaceous plants.

2.1.8 Planting mixture Type A – trees: standard planting backfill shall be a mixture of ½native soil (excavated from plant pits), ¼topsoil, and ¼sand. Add fertilizer Type "A" and "B" to planting mixture per manufacturer's requirements. Follow planting details.

2.1.9 Planting mixture Type B for perennial flowers, groundcover beds, and ericaceous plants: planting backfill shall be a mixture of 1/3 screened topsoil, 1/3 sand and 1/3 peat. Al existing soil shall be excavated and removed. Adding fertilizer types "A" and "B" to mixture per manufacturer's requirements. Follow planting details. Planting mixture Type C for annual flower beds: same as Type "B". Submit a sample to the Landscape Architect for approval prior to installation.

2.1.10 Plant fertilizer Type A to be "Drimanure" applied per manufacturer recommendations.

2.1.11 Plant fertilizer Type B to be "14-14-14". Apply per manufacturer recommendations.

2.1.12 Bone Meal – 5 lbs. per cubic yard of soil mixes.

2.1.13 Lime to be ground dolomitic limestone, ninety-five (95%) percent passing through #100 mesh screen. Use to adjust soil pH only, under direction of Landscape Architect.

2.1.14 Sand to be clean, coarse, ungraded conforming to ASTM-C-3 for fine aggregates.

2.1.15 Anti-Desiccant: protective film emulsion providing a protective film over plant surfaces; permeable to permit transpiration. Mixed and applied in accordance with Manufacturer's instructions.

2.1.16 Shredded bark mulch shall be double processed, dark shredded hardwood bark that is clean, free of debris and sticks. Materials shall be uniform in size, shape, and texture. Submit samples to Landscape Architect for approval prior to installation. Install mulch to finish grade, level smooth, without ridges, humps, or depressions.

2.1.17 Water: free of substances harmful to plant growth. Hoses or other methods of transportation shall be furnished by Sub Contractor.

2.1.18 Stakes for staking :(3) Three Hardwood, 2" x 2" x 8'-0" long. Driven a min. of 18" deep firmly into subgrade prior to backfilling. Stakes for guying: Hardwood, 2" x 2" x 36" long.

2.1.19 Guying/staking material: Wt 2"-3" wide fabric straps, connect from tree to stake. Remove after (1) year, allow for flexibility. (Do not use wire & hose)

2.1.20 Tree wrap: standard waterproofed tree wrapping paper, 2-1/2" wide, made of 2 layers of crepe kraft paper weighing not less than 30 lbs. per ream, cemented together with asphalt. Secure tree wrap with biodegradable material at top and bottom. Remove after first winter.

2.1.21 Twine: two-ply jute material.

2.2 MEASUREMENTS

2.2.1 Measure height and spread of specimen plant materials with branches in their normal positions as indicated on Drawings or Plant List.

2.2.2 The measurements for height shall be taken from the ground level to the average height of the top of the plant and not the longest branch.

2.2.3 Measurement should be average of plant, not greatest diameter. For example, plant measuring 15 inches in widest direction and 9 inches in narrowest direction would be classified as 12 inch stock.

2.2.4 Plants properly trimmed and transplanted should measure same in every direction.

2.2.5 Measure caliper of trees 6 inches above surface of ground.

2.2.6 Where caliper or other dimensions of plant materials are omitted from Plant List, plant materials shall be normal stock for type listed.

2.2.7 Plant materials larger than those specified may be supplied, with prior written approval of Landscape Architect, and:

1. If complying with Contract Document requirements in all other respects.

2. If at no additional cost to Owner.

3. If sizes of roots or balls are increased proportionately.

2.2.8 The height of the trees, specified by height, measured from the crown of the roots to the top of the top branch, shall not be less than the minimum size designated on the drawings.

3.0 EXECUTION

3.1 INSPECTION

3.1.1 Landscape Architect or General Contractor's representative must approve proposed planting areas and conditions of installation. Do not start planting work until unsatisfactory conditions are corrected.

3.1.2 Individual plant locations shall be staked on the project site by the Landscape Contractor and approved by the Landscape Architect before any planting pits are dug. The Landscape Architect reserves the right to adjust plant material locations to meet field conditions, without additional cost to the General Contractor / Owner.

3.1.3 Accurately stake plant material according to the Drawings. Stakes shall be above grade, painted a bright color, and labeled with the name of the plant material to be installed at that location.

3.2 TIME OF PLANTING

3.2.1 Evergreen material: Plant Evergreen materials between September 1 and October 15 or in spring before new growth begins. If project requirements require planting at other times, plants shall be sprayed with anti-desiccant prior to planting operations.

3.2.2 Deciduous material: Plant deciduous materials in a dormant condition. If deciduous trees are planted in leaf, they shall be sprayed with anti-desiccant prior to planting operation.

3.2.3 Planting times other than those indicated must be acceptable to the Landscape Architect.

3.3 PREPARATION

3.3.1 General: See Landscape Preparation Section

3.3.2 Vegetation Removal

1. Strip existing grass and weeds, including roots from all bed areas leaving the soil surface one (1") inch below finish grade.

2. Herbicide: as required to prepare area for new planting applied to all ground cover, evergreen and shrubbery beds and all mulch areas before application of preemergance herbicide, per manufacture's recommendations. Clean area of all dead material after five (5) days.

3. Pre-Emergence Herbicide: applied per manufacturer recommendations to same area where "herbicide" has been applied and to planting bed areas, after area is cleared of dead vegetation.

4. Herbicides to be applied by licensed applicator as required by the State.

5. Excavate circular plant pits with vertical sides, except for plants specifically indicated to be planted in beds. Provide plant pits per planting details. Depth of pit shall accommodate the root system. Scarify the bottom of the pit to a depth of 6".

6. Roughen sides of excavations.

7. Provide premixed planting mixture Type "A" for use around the balls and roots of all deciduous and evergreen tree plantings.

3.3.3 Ground Cover Beds, Perennial Flower Beds, and Ericaceous Plant Beds

1. Excavate existing soil to 12" depth over entire bed area and remove soil from site. Scarify bottom of bed to a 4" depth. Set plants according to drawings and backfill entire bed with premixed planting mixture "Type B". Ground Cover shall be planted after bed has been backfilled with plant mix and mulched. Plant ground cover through mulch and into plant mix.

3.3.4 Mass Shrub Beds / Hedge Beds:

1. Excavate existing soil to 18" depth over entire bed area and remove soil from site. Scarify bottom of the bed to a 4" depth. Set plants according to drawings and Specifications. Backfill entire bed with (premixed) specified planting mixture Type "A".

3.3.5 Annual Flower Beds:

1. Excavate existing soil to 8" depth over entire bed area and remove soil from site. Scarify bottom of bed to a 4" depth. Backfill entire bed to an 8" depth with premixed planting mixture "Type B".

3.4 INSTALLATION

3.4.1 Planting shall be performed only by experienced workman familiar with planting procedures under the supervision of a qualified supervisor.

3.4.2 Planting pits shall be round, with vertical sides and flat bottoms, and sized in accordance with outlines and dimensions shown on the planting details.

3.4.3 See drawings for planting details.

3.4.4 If obstructions are encountered that are not indicated, do not proceed with planting operations until alternative plant locations have been selected and approved in writing by the Landscape Architect. Where location or spacing dimensions are not clearly shown, request clarification by the Landscape Architect.

3.4.5 Set plant material in the planting pit to proper grade and alignment.

1. Set plants upright, plumb, and faced to give the best appearance or relationship to each other or adjacent structure.

2. Set plant material so it is flush to finish grade after settling, or 1-2" higher in poorly drained soil, or as directed by Landscape Architect.

3. No filling will be permitted around the trunks or stems.

4. Do not cover top of root ball with soil.

5. Backfill pit with planting mixture. Do not use frozen or muddy mixtures for backfilling.

6. Form a ring of soil around the edge of the planting pit to retain water.

3.4.6 After balled and burlapped plants are set, tamp planting mixture around of balls and fill all voids and remove air pockets.

3.4.7 Remove all burlap, ropes, and wires from top 1/3 of balls.

3.4.8 Space ground cover plants in accordance with indicated dimensions. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 12" of trunks and shrubs and to within 6" of planting bed.

3.4.9 Spread and arrange roots of bare rooted plants in their natural position. Work in planting mixture. Do not mat roots together. Cut all broken and frayed roots before installing planting mixture.

3.4.10 Water immediately after planting.

3.4.11 Apply pre-emergent herbicide to bed areas per manufacturer's recommendations before mulching.

3.5 MULCHING

3.5.1 Mulch trees and shrub planting pits and shrub beds with shredded hardwood bark mulch 3" deep to dripline immediately after planting. Leave 3" circle of bare soil around tree trunk. Thoroughly water mulched areas. After watering, rake mulch to provide a uniform finished surface.

3.5.2 Mulch shall not be placed in contact with trunks or stems.

3.5.3 Mulch ground cover beds with shredded bark mulch 2" to 3" deep prior to planting.

3.5.4 Plant ground cover through mulch.

3.6 WRAPPING, GUYING, AND STAKING

3.6.1 Inspect trees for injury to trunks, evidence of insect infestation and improper pruning before wrapping.

3.6.2 Wrap trunks of all trees spirally from bottom to top with specified tree wrap and secure in place.

3.6.3 Stake deciduous trees under 4" caliper. Stake evergreen trees under 6'-0" tall and over with metal fence post, three (3)per tree.

3.6.4 Stake/guy all trees immediately after installation. When high winds or other conditions which may effect tree survival or appearance occur during the warranty period, the Sub-Contractor shall immediately repair the staking/guying.

3.6.5 Guy deciduous trees 4" caliper and over. Stake evergreen trees 6'-0" tall and over with metal fence post, three (3) per tree.

3.6.6 All work shall be acceptable to the Landscape Architect/Owner's representative.

3.7 PRUNING

3.7.1 Remove or cut back broken, damaged, and unsymmetrical growth of new wood.

3.7.2 Multiple leader plants: preserve the leader which will best promote the symmetry of the plant. Do not prune terminal leader. Cut branches flush with the trunk of the main branch, at a point beyond a lateral shoot or bud a distance of not less than ½the diameter of the supporting branch. Make cut on an angle.

3.7.3 Prune evergreens only to remove broken or damaged branches.

3.8 MAINTENANCE

3.8.1 See Landscape Maintenance and Warranty Standards.

3.9 CLEANING

3.9.1 Perform cleaning during installation of the work and upon completion of the work. Remove from all site excess materials, soil, debris, and equipment. Repair damage resulting from planting operations.

END OF SECTION

LANDSCAPE MAINTENANCE AND WARRANTY STANDARDS

1.0 GENERAL

1.1 SUMMARY

1.1.1 Includes But Not Limited To

1. Provide maintenance for new landscaping as described in Contract Documents.

2. The requirements of the Section include a one (1) year warranty period from date of acceptance of installation performed by the General Contractor's Representative and Landscape Architect.

2.0 PRODUCTS – Not Used

3.0 EXECUTION

3.1 PERFORMANCE

3.1.1 Acceptance of Installation

1. At the completion of all landscape installation, or pre-approved portions thereof, the Landscape Subcontractor shall request in writing an inspection for Acceptance of Installation in which the Landscape Subcontractor, Landscape Architect, and General Contractor's Representative shall be present.

   a. Following the acceptance inspection a punch list will be issued by the Landscape Architect.

   b. Upon completion of all punch list items, the Landscape Architect and/or General Contractor's Representative shall reinspect the project and issue a written statement of Acceptance of Installation and establish the beginning of the Project Warranty Period.

   c. At the time of acceptance all plant material shall be of vigorous health.

   d. It is the responsibility of the Landscape Subcontractor to make the written request for inspection of installation in a timely fashion.

   e. If there is plant material loss prior to the Landscape Subcontractor's written request for inspection of installation, the Landscape Contractor shall make all replacements of this dead material at no additional cost These replacements are not considered to be the required one (1) replacement of dead plant material by the Landscape Subcontractor during the one (1) year project warranty period, as outlined below.

2. Landscape work may be inspected for acceptance in parts agreeable to the General Contractor's Representative and Landscape Architect provided work offered for inspection is complete, including maintenance as required.

3. For work to be inspected for partial acceptance, the Landscape Subcontractor shall provide a drawing outlining work completed and supply a written statement requesting acceptance of this work completed to date.

3.1.2 Project Warranty

1. The Project Warranty Period begins upon written preliminary acceptance of the project installation by the Landscape Architect and General Contractor's representative.

2. The Landscape Subcontractor shall guarantee trees, shrubs, ground cover beds and seeded or sodded areas through construction and for a period of one (1) year after date of Acceptance of Installation against defects including death and unsatisfactory growth, except for defects resulting from neglect, abuse or damage by others or unusual phenomena or incidents which are beyond Landscape Subcontractor's control.

3.1.3 Maintenance During One (1) Year Project Warranty

1. To insure guarantee standards, the following maintenance procedures for trees, shrubs, and ground covers shall be executed during construction and for the full Project Warranty Periods.

   a. Landscape Subcontractor shall be responsible for only one (1) replacement of any plant materials during the one (1) year Project Warranty Period. These include those which are dead or in the opinion of the Landscape Architect are in an unhealthy or unsightly condition, or having lost natural shape, resulting from dieback, excessive pruning, or inadequate or improper maintenance as part of the guarantee.

   b. Prior to any replacements, Landscape Subcontractor shall review individual plants in question with Landscape Architect to determine reason for plant demise.

2. Replacements must meet the standards specified on the Landscape plans and in the specifications, i.e. quality, species of plant material and planting procedures to receive approval of replacement materials by Landscape Architect.

3. Costs for replacements are assumed part of bid quotations and therefore will not result in an additional cost to General Contractor or Landscape Architect.

4. Areas damaged as a result of replacement operation are to be restored by Landscape Subcontractor at no cost to the General Contractor or Landscape Architect.

5. The Landscape Subcontractor shall be responsible for watering all plantings through the warranty period and shall keep guy wires taut, raise tree balls which settle, furnish and apply sprays as necessary to keep the plantings free of disease and insects until the end of the warranty period.

6. The Landscape Subcontractor shall remove and replace trees, shrubs or other plants found to be dead or in unhealthy condition.

   a. Rejected plants and materials shall be removed promptly.

   b. Replacements shall be made during the following normal planting schedule.

   c. Trees and shrubs which are in doubt shall be replaced, unless, in the opinion of the Landscape Architect, it is advisable to extend Project Warranty Period for full growing Season.

7. The Landscape Contractor shall apply anti-desiccants on evergreen trees and evergreen shrub beds within 150' of major streets and drives, no later than December 1, during the one (1) year project warranty.

8. The first spring after plant installation the contractor shall check all trees to insure twine has rotted from around the trunk. If twine is still present, it shall be removed and disposed of off-site.

9. All stakes, guy wires, tree wrap paper, dead twigs and branches shall be removed from tree and plant materials at the end of this warranty period.

3.1.4 Maintenance of Seeded Lawn Areas

1. The Landscape Subcontractor shall maintain seeded lawn areas.

   a. Water, fertilize, weed, and apply chemicals until a dense lawn of permanent grasses, free from lumps and depressions or any bare spots, none of which is larger than one (1) foot of area up to a maximum of 3% of the total seeded lawn area is established.

   b. Seeded lawn that fails to show a uniform growth and/or germination shall be reseeded until a dense cover is established, regardless of what season the seed was installed.

2. The Landscape Subcontractor shall maintain and mow all lawn areas for until acceptance of installation (typically 3 mows) . When lawn reaches 3" in height it shall be cut to 2" in height.

3. The Owner assumes cutting responsibilities following the Acceptance of Installation of the seeded lawn.

4. At conclusion of Project Warranty Period and after receiving Written Final Acceptance by General Contractor's representative and Landscape Architect, the Owner shall assume all seeded lawn maintenance responsibilities.

3.1.5 Maintenance of Sodded Lawn Areas

1. The Landscape Subcontractor shall maintain sodded lawn areas.

   a. Water, fertilize, spot weed, apply herbicides, fungicides, insecticides and reseed until a full uniform, smooth stand of sod is knitted to topsoil, and accepted by the Landscape Architect or his or her representative.

2. Water sod thoroughly, as required to establish proper rooting.

3. Repair, rework, and reseed all areas that have washed out or are eroded. Replace undesirable or dead areas with new sod.

4. Mow lawn areas once as soon as sod has rooted sufficiently and knitted to the topsoil. Cut back to 2" height. Not more than 40% of grass leaf shall be removed at any single mowing. Excess clipping to be removed by the Landscape Subcontractor. The Landscape Subcontractor shall be responsible for lawn mowing until acceptance of installation (typically 3-mows).

5. The Owner assumes mowing responsibilities following the Acceptance of Installation of the sodded lawn.

6. At conclusion of Project Warranty Period and after receiving Written Final Acceptance by General Contractor's representative and Landscape Architect, the Owner shall assume all sodded lawn maintenance responsibilities.

3.1.6 Final Acceptance Upon Conclusion of the Warranty Period

1. At the conclusion of the Project Warranty Period the Landscape Subcontractor shall request a project inspection for final acceptance in which the Landscape Contractor, Landscape Architect and Owner's Representative shall be present.

2. After the inspection for final acceptance, a punch list will be issued by the Landscape Architect. Upon completion of all punch list items, the Landscape Architect and the Owner's Representative shall reinspect the project and issue a Written Statement of Final Acceptance.

END OF SECTION

NOTE: The Owners may at their option elect to utilize a Construction Manager in lieu of a General Contractor for all matters pertaining to these specifications and the site work.

811. Know what's below. Call before you dig.

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REVISIONS:

ISSUE DATE:

BUILDING PERMIT	02-10-2021

DRAWN BY: LGD

PANDA STORE #: D8059

CIVIL PROJECT #: 2020-0250

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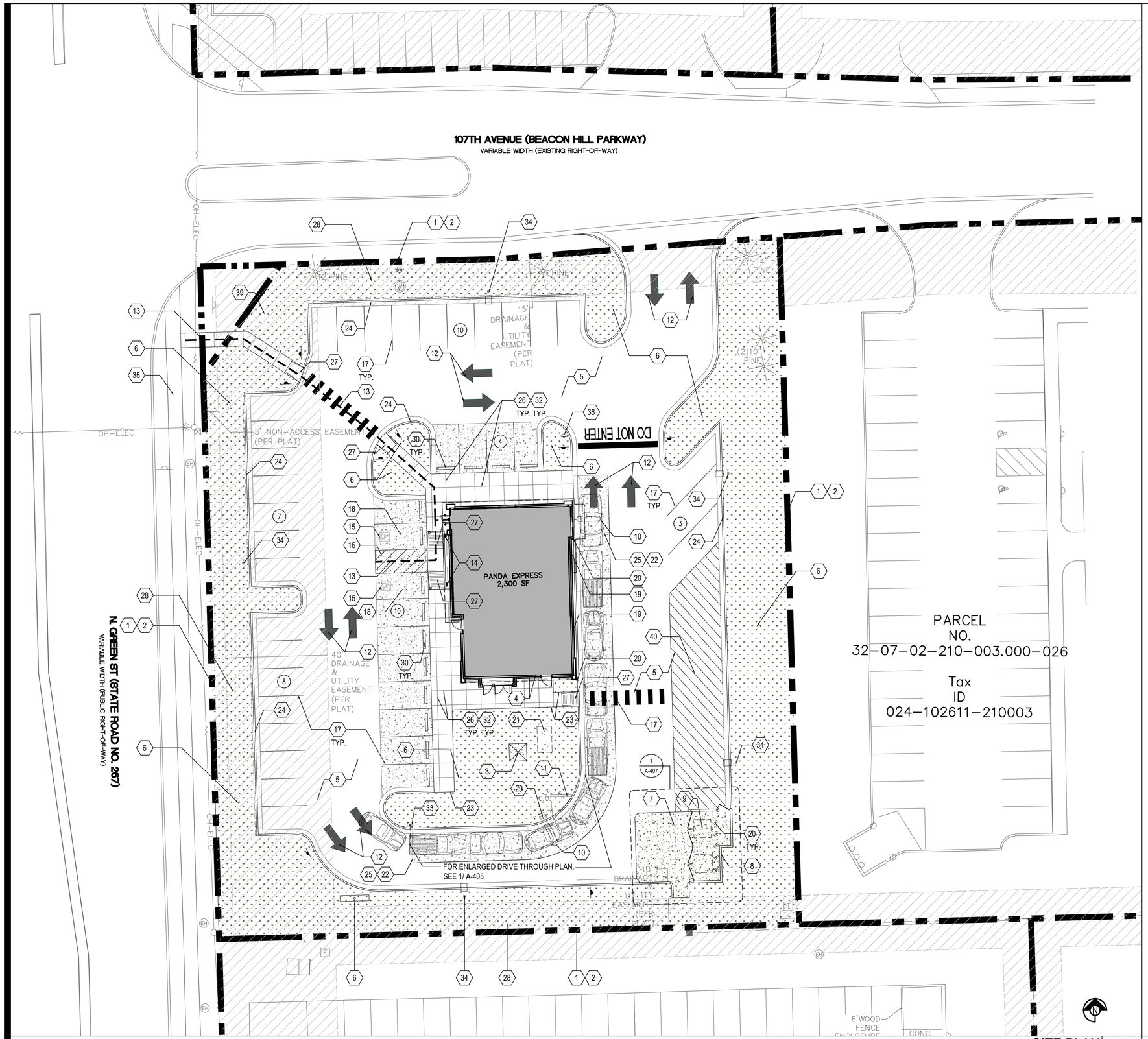
LANDSCAPE SPECIFICATIONS

L02.2



SITE PLAN | 1
Scale= 1/16" = 1'-0" | A-100

DEMOLITION NOTE:
G.C. TO REFER TO CIVIL DRAWINGS REGARDING REMOVAL OF 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 REFERENCE CIVIL UTILITY PLAN FOR SIZE AND LOCATION.
3. FOR HORIZONTAL CONTROL PLAN REFER TO CIVIL DRAWINGS

1. LIMIT OF CONSTRUCTION - RE: CIVIL DRAWINGS
2. PROPERTY LINE
3. TRANSFORMER - RE: ELECTRICAL AND CIVIL DRAWINGS
4. NEW SWITCHGEAR
5. PAVING - SEE CIVIL PLAN
6. IRRIGATED LANDSCAPING, REFER TO LANDSCAPE DRAWINGS
7. HEAVY DUTY CONCRETE APRON FOR DUMPSTER ENCLOSURE. REFERENCE CIVIL DRAWINGS FOR SPECIFICATIONS
8. TRASH ENCLOSURE, CONFIRM BIN SIZE WITH LOCAL WASTE MANAGEMENT COMPANY. (01/A-407)
9. OUTDOOR TRASH RECEPTACLE - REFER TO SHEET A-109
10. DRIVE THRU LANE SENSOR LOOP. INSTALL/POSITION SO LOOP IS CENTERED ON ACTIVE PANEL OF DRIVE THROUGH WINDOW. SEE DETAIL (01/A-405)
11. DRIVE THROUGH MENU BOARD-INSTALLED BY SIGN COMPANY. VERIFY WITH PANDA PM (SEE GENERAL NOTE ABOVE)
12. DIRECTIONAL ARROW
13. ACCESSIBLE PATH OF TRAVEL
14. ACCESSIBLE PARKING POLE SIGN
15. INTERNATIONAL ACCESSIBILITY SYMBOL @ PARKING SPACE
16. ACCESSIBLE PARKING SPACE AND LOADING ZONE PAINT LOADING ZONE W/ 4" WIDE STRIPES @3'-0" O.C.
17. PAINT 4" WIDE SOLID PARKING STRIPING W/ TWO (2) COATS HIGHWAY WHITE PAINT
18. DESIGNATED HANDICAP PARKING SPACE
19. ROOF OVERFLOW DRAIN FROM ROOF TO EXIT TO DAYLIGHT THRU FACE OF WALL. (15/A-107)
20. STEEL PIPE BOLLARD. BOLLARDS TO BE PAINTED SAFETY YELLOW PRIOR TO APPLICATION OF LDPE SLEEVE. (18/A-407)
21. UNDERGROUND GREASE INTERCEPTOR - SEE PLUMBING/CIVIL DRAWINGS
22. CONC. DRIVEWAY
23. EDGE OF SIDEWALK AT PLANTER
24. CONCRETE CURB AT LANDSCAPE AREA.
25. EXPANSION JOINT @ 20'-0" O.C. MAX.
26. TOOLED JOINTS @ 5'-0"X5'-0" O.C. EXPANSION JOINT @ 20'-0" O.C.
27. ACCESSIBLE RAMP
28. LOCATION OF UTILITY EASEMENT - REF. CIVIL DRAWINGS
29. ORDER CONFIRMATION BOARD
30. RUBBER WHEEL STOP, REF. CIVIL DRAWINGS
31. NOT USED
32. SEALED CONC SIDEWALK. (AQUA MIX SEALER'S CHOICE GOLD). CONCRETE TO BE LIGHT BROOM TEXTURE FINISH. PROVIDE UNDER SLAB TREATMENT PER SOIL REPORT. PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG.
33. CLEARANCE BAR/BASE INSTALLED BY SIGN VENDOR.
34. LIGHT POLE - RE: ELECTRICAL AND CIVIL
35. SIDEWALK TO RIGHT-OF-WAY - REF: CIVIL DRAWINGS.
36. NOT USED
37. NOT USED
38. THANK YOU SIGN - COORDINATE WITH CIVIL DRAWINGS. INSTALLED BY SIGNAGE VENDOR
39. PYLON SIGN - COORDINATE WITH CIVIL DRAWINGS. REFER TO SHEET A-405 AND ELECTRICAL DRAWINGS
40. LOADING ZONE - PAINT 4" WIDE SOLID DIAGONAL STRIPING W/ TWO (2) COATS HIGHWAY YELLOW PAINT. COORDINATE WITH CIVIL DRAWINGS

KEY NOTES | A
Scale= NTS | A-100

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PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI
REGISTERED
No. AR12000032
STATE OF INDIANA
ARCHITECT
2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-100
SITE PLAN
ARCHITECTURAL

TRUE WARM & WELCOME 2300 R4

EQUIPMENT SCHEDULE

01-11-19

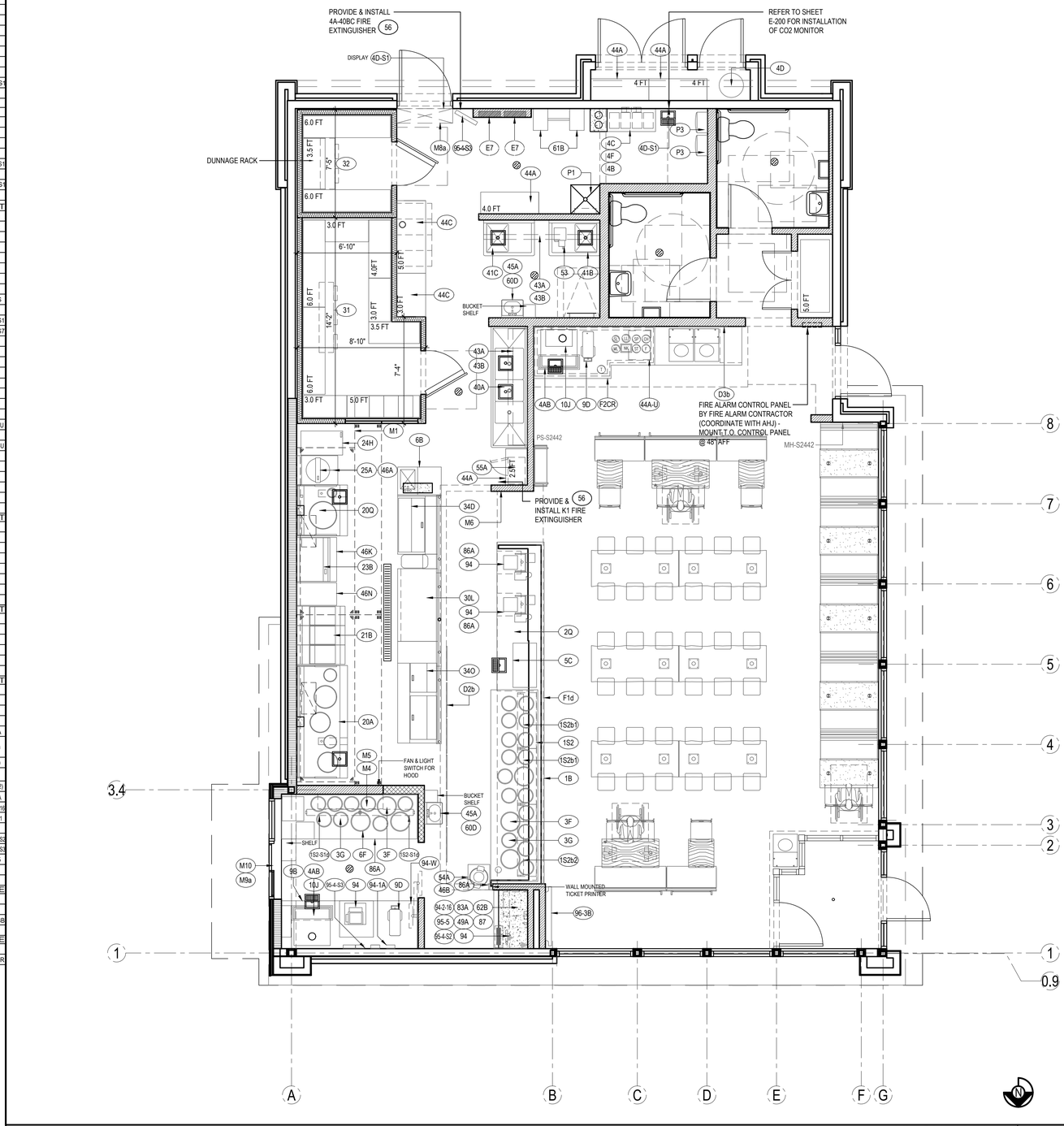
PLUMBING
- FS INDIRECT CONNECTION TO FLOOR SINK
- D DIRECT CONNECTION
- RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)

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.	LOAD TYPE	LOAD WATT	PHASE	H.P.	VOLTS	REMARKS	DIMENSIONS W x D x H (# 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											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-S1b
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"						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																	#26"	CHART	CARBO-MAX 750	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- D/T	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	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-FFP345G	FRYER	21B
GRILL MEDIA PLUG/CONNECTOR O										36"	DC	25A	3		208V		36"X27 7/8"X15 1/2"	STAR	536TGF	STAR ELECTRICAL GRILL	23B
O										24"	C	14.8A	1		120	NEMA 5	19.9"X34.5"X41.5"	WINSTON	HA4005	RICE HOLDING CABINET	24H
O	34.6	10" & 32"	3/4"														24"x19"x17"	PANTIN	GC-6100(N)	(2) RICE COOKER	25A
O										24"	C	9A	1	1/2	115	NEMA 5-15P	60 1/4"X30"X30 5/8"	TURBO AIR	MUF-60-PE	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	12A	1	1/2	120	SELF CONTAINED	84"x33"x35"	TURBO AIR	TST-2400-D4-R-N	84" REF. PREP. TABLE	34O
O										24"	C	9A	1	1/3	120	SELF CONTAINED	48x33"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	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 28"	KEC	CUSTOM	S.S. GRILL STAND	46K
O																	18 5/8"x 33" x 28"	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
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" #	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
BY G.C.										24"	D	20A	1		120	SEE ELEC. DWG	25"X 9" X 10 3/8"	QUIK-SERV	CF-25 NON-HEATED	DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH	M9a
BY G.C.										24"	D	30A	1		120 & 208	SEE ELEC. DWG	25"X 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED		
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		HYPERACTIVE TIMER SYS.	94-1A
O										48"	C	50W	1		120	SEE PLAN	15" X 13"	DELL (17" COLOR)		LCD MONITOR-MANAGER	94-2-1b
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	55WS50BS-B	LCD DISPLAY MONITOR	96-3B
FURNITURE																					
																SEE PLAN		RICHFIELD	STRAIGHT-BF	SERVICE COUNTER	F1d
																SEE PLAN		RICHFIELD	RIGHT TETON BEIGE	BEVERAGE COUNTER	F2CR

* REFERENCE SHEET A-109 FOR FURNITURE CORE DRILL DIMENSIONS



KITCHEN PLAN 1

Scale= 1/4" = 1'-0" A-101

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AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR ARCHITECTS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-101

KITCHEN PLAN

EGRESS

SYMBOL LEGEND	
	EXIT CAPACITY
120 / 17.8	ALLOWABLE / ACTUAL
92'-6"	MAXIMUM TRAVEL DISTANCE FROM FARTHEST POINT
	ACCESSIBLE ROUTE NUMBER OF SEATS REQUIRED (2) PER 2010 ADA STANDERS
	SEPARATION OF EXITS = 37'=1" LENGTH > ½ (70'-4") DIAGONAL DISTANCE OF AREA SERVED .

EGRESS PATH DISTANCES:

A-E-B 65'-5"
A-E-C 69'-8"
A-E-D 91'-10"
E-C 35'-4"
E-D 57'-6"

COMMON PATH OF TRAVEL	TABLE FROM IBC CHAPTER 1014.3	75 FEET MAX.
EXIT ACCESS TRAVEL DISTANCE	TABLE FROM IBC CHAPTER 1016.2	200 FEET MAX.

OCCUPANCY

TABLE FROM IBC CHAPTER 1004.1.2

KITCHEN
703 GROSS/200= 4 OCCUPANTS

STORAGE/MECH
291 GROSS/300 = 1 OCCUPANT

INDOOR DINING
STANDING SPACE
65 NET / 5 = 13 OCCUPANTS

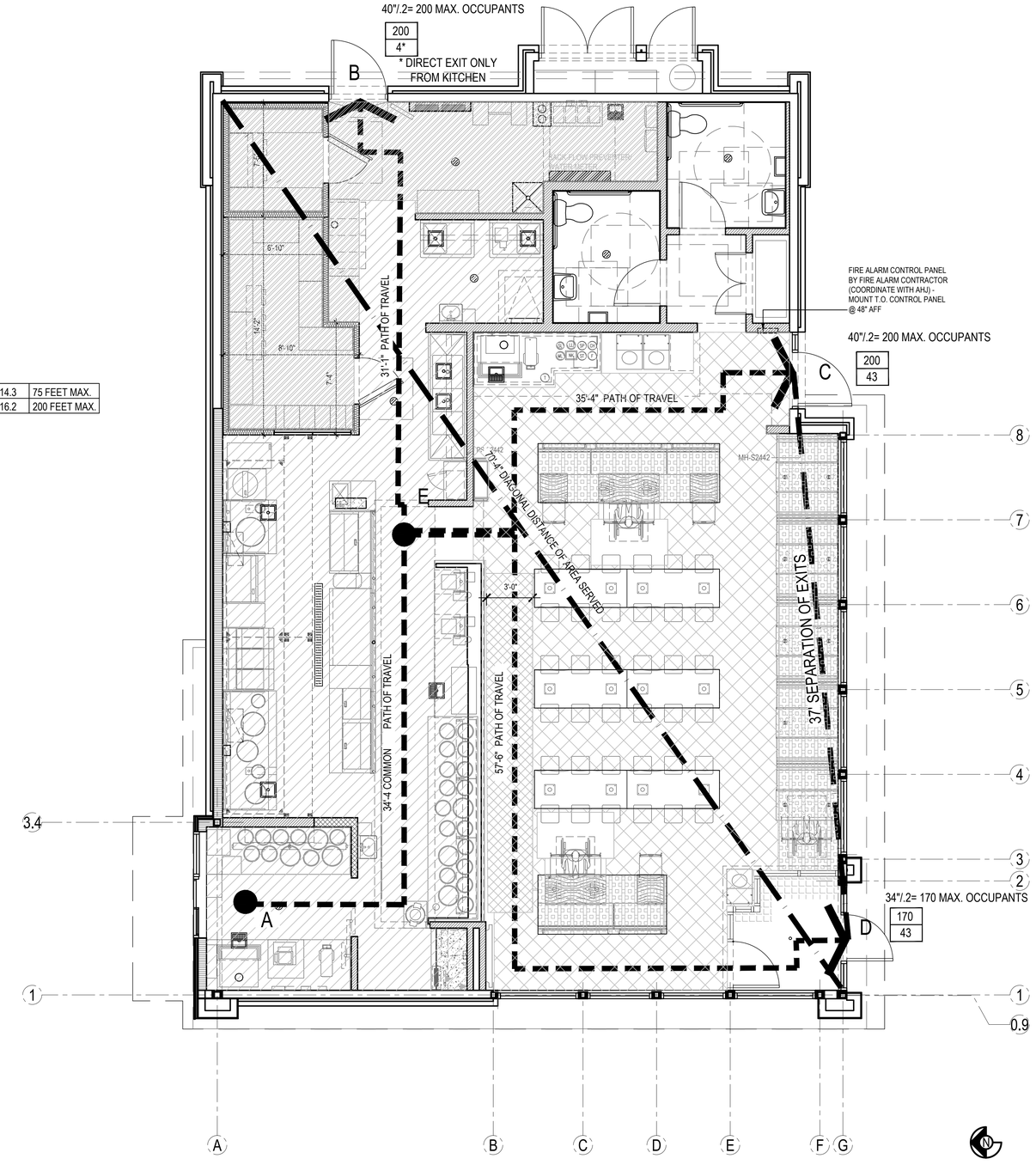
VESTIBULE
10 NET / 5 = 2 OCCUPANTS

INDOOR DINING - UNCONCENTRATED
488 NET / 15 = 33 OCCUPANTS

INDOOR DINING -
FIXED SEATING
BASED ON # OF FIXED SEATS= 34- OCCUPANTS

BARRIER FREE
3 OCCUPANTS

TOTAL COUNT- 90 OCCUPANTS



KITCHEN PLAN 1

Scale= 1/4" = 1'-0" A-101

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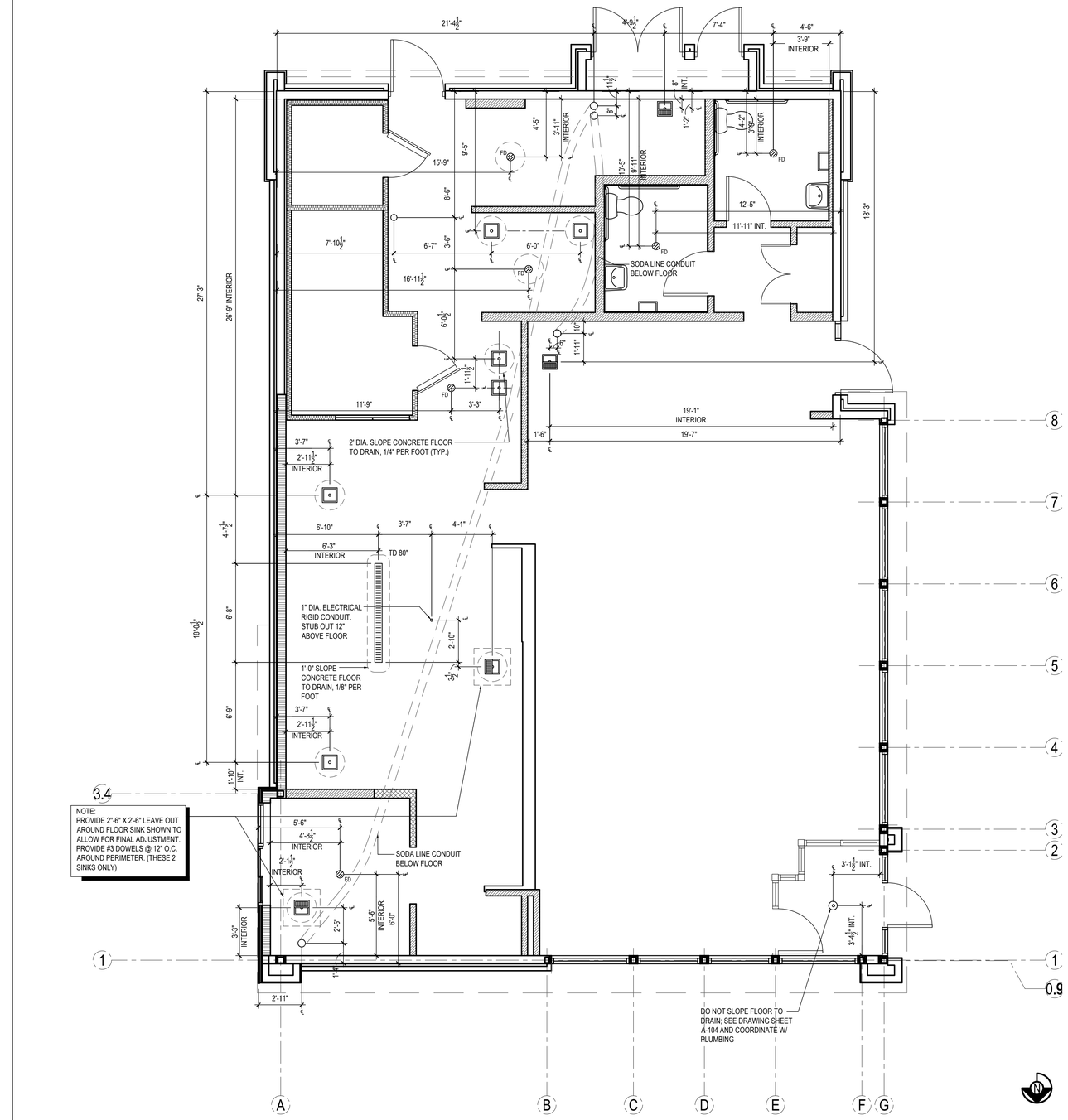
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-101.1

EGRESS PLAN

TRUE WARM & WELCOME 2300 R4



ROUGH - IN PLUMBING PLAN 1

Scale= 1/4" = 1'-0" A-102

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2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-102

ROUGH - IN PLUMBING PLAN

FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALL	CEILING
100 DINING ROOM	T200 24" X 24" TILE	T109 6" X 36" TILE	P101, P104 PAINT T109 TILE W102 WALL COVERING	C1 2' X 2' ARMSTRONG, SEPIA #PN91311 C3 GYP BOARD W/ PAINT P103
101 SERVING AREA	S1 PLAIN 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 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 S2 ABRASIVE IN HIGH TRAFFIC AREAS	S1 6" H CONT. (KITCHEN EQUIPMENT ON 6" NSF APPROVED LEGS)	WP3 S.S. BEHIND COOK LINE WP1 FRP PANEL	C2 2' X 4' SUSPENDED GRID WASHABLE VINYL COATED GYP BOARD PANELS
104 KITCHEN PREP.	S1 PLAIN 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 S2 ABRASIVE IN HIGH TRAFFIC AREAS	S.S. / ALUMINUM WITH ½" RADIUS	EXT S.S. INT ALUMINUM GALVANIZED S.S.	ALUMINUM GALVANIZED STAINLESS STEEL
105A WALK-IN FREEZER	GALVANIZED STAINLESS STEEL S1 SILIKAL UNDER WIF SUBFLOOR	S.S. / ALUMINUM WITH ½" RADIUS	EXT S.S. INT ALUMINUM GALVANIZED S.S.	ALUMINUM GALVANIZED STAINLESS STEEL
106 MEN'S ROOM	T200 24" X 24" TILE	SCHLUTER	T108 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
107 WOMEN'S ROOM	T200 24" X 24" TILE	SCHLUTER	T108 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
108 VESTIBULE	T200 24" X 24" TILE	T109 6" X 36" TILE	P104 PAINT GYB BOARD T109 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
109 STORAGE ROOM	T200 24" X 24" TILE	T109 6" X 36" TILE	WP1 FRP PANEL	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
110 EXTERIOR STORAGE	SEALED CONCRETE, SMOOTH FINISH	-	WP1 FRP PANEL	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT
111 ENTRY VESTIBULE	T200 24" X 24" TILE M100 4'.X 6' MAT	T109 6" X 36" TILE	P104 PAINT T109 TILE	C3 GYB BOARD W/ P101 SMOOTH WASHABLE PAINT

DOOR & HARDWARE SCHEDULE

INSTALLED AND FURNISHED BY. G.C. 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
JERRY JACOBS, PROJECT MANAGER
800-887-4307 EXT. 220 PHONE
jerryj@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
ROB OWEN, DIR. BUSINESS DEVELOPMENT; RobO@locknet.com; 606-748-2065

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	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
D1	ALUMINUM STOREFRONT	3'-0" X 7'-0"	ALUM	DARK BRONZE ANODIZED ALUM.	1 ¾"	HOLLOW	GLASS	-		●		●		●		●	●		●					●	
D2	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	S.C. WOOD	(2) 2'-0" X 7'-0"	H. MTL.	PLASTIC LAMINATE PRE-FINISHED	1 ¾"	SOLID	-	-	●						●			●				●	●	●	KICKPLATE ON VESTIBULE SIDE OF DOORS
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.	-	-		●						●			●	●					WITH LOUVERED VENT & BUG SCREEN
D7	HOLLOW METAL	3'-0" X 7'-0"	H. MTL.	PAINTED	1 ¾"	INSUL.	-	-		●						●			●	●					WITH LOUVERED VENT & BUG SCREEN
D1B	ALUM. STORE. VESTIBULE	3'-0" X 7'-0"	ALUM	DARK BRONZE ANODIZED ALUM.	1 ¾"	HOLLOW	GLASS	-					●	●		●	●							●	

WALL SCHEDULE

INSTALLED AND FURNISHED BY. G.C. 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)
W3	(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" O.C.
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" O.C
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. G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MFG #	COLOR FINISH	REMARK
WP1	CRANE COMPOSITES INC.	F.R.P. THICKNESS: .075	LBCS.14	#636 (GRAY), SM/SM	CONTACT: LINDA RUSE 310.857.9036
WP2	-	S.S. PANEL (22 GA)	-	BRUSHED FINISH	FURNISHED BY PX, INSTALLED BY G.C.
WP3	-	S.S. PANEL (22 GA)	-	DIAMOND PATTERN FINISH	FURNISHED BY PX, INSTALLED BY G.C.
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. G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	PRODUCT	MFG #	STAIN / COLOR	FINIISH	REMARK
QZ-5	NOT USED					
QZ-6	CORIAN	ARTIFICIAL QUARTZ	-	PORTORO	POLISHED	SERVICE COUNTER & DRINK STATION PROVIDED BY PX, INSTALLED BY G.C.

INTERIOR PAINT SCHEDULE

INSTALLED AND FURNISHED BY. G.C. 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, SERVICE LINE SOFFIT
P102	NOT USED				
P103	SHERWIN-WILLIAMS	SW 7032	WARM STONE	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	DROPPED SOFFITS
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 SERVICE COUNTER SOFFIT

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 G.C.:
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 G.C.-INSTALLED BY G.C.:

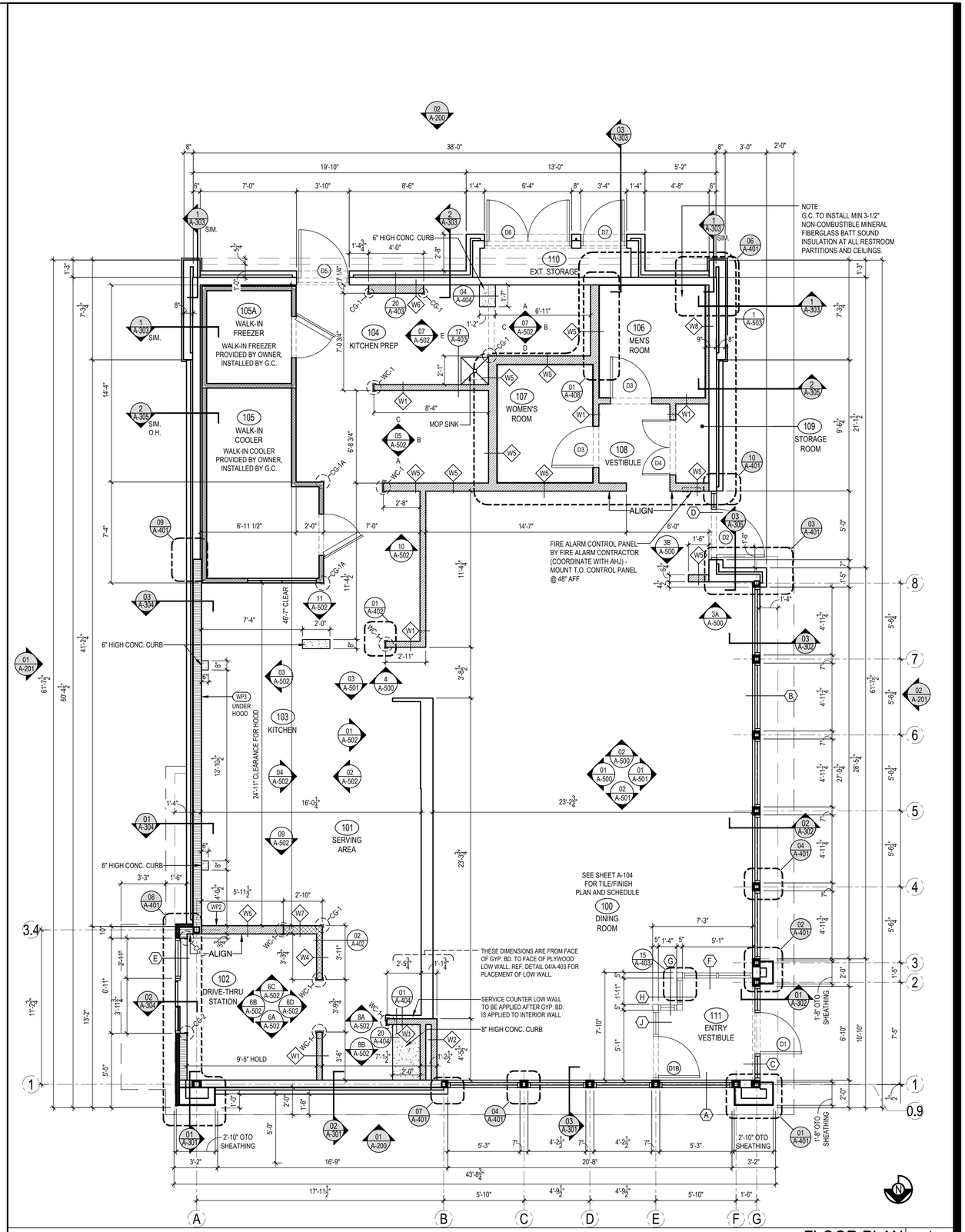
5. INSTALL 18 GA STAINLESS STEEL CORNER GUARD & WALL CAP INSIDE KITCHEN

- 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 G.C.

NOTE!!!!!!!!!!!:

***ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD**



TILE SCHEDULE (SEE SHEET A-104)

FLOOR PLAN 1
Scale= 1/4" = 1'-0" A-103

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
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Facsimile: 626.372.8288

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ARCH PROJECT #: JCDT20-0255

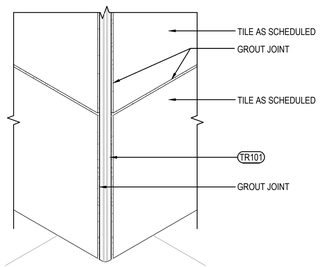
AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR ARCHITECTS PLANNERS

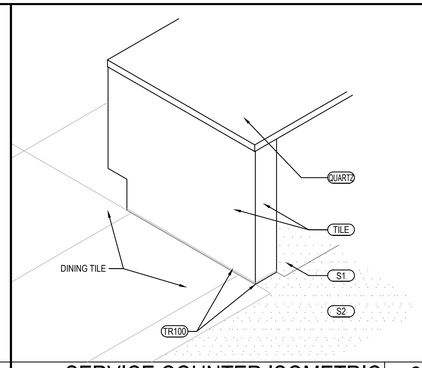
PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-103

FLOOR PLAN



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 DOUG SALATINO 518-713-5371	12" X 24" X 3/8"	-	-	1 / 8"	G-111	RESTROOM WALL
T-109	DALTILE	6" X 36" X 3/8" 9" X 36" X 3/8"	FOREST PARK TIMBERLAND FP97	-	1 / 8"	G-113	RR VESTIBULE & DINING ROOM WALLS CONTACT: NATIONAL ACCOUNT SUPPORT DESK 877.556.5728 (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
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	-	-	
M100	MATSINC 800.628.7462	NUWAY - 7/16" ALUM FOOT GRILLE	CHARCOAL	-	-	-	(2) 2' X 6' PIECES FOR A 4' X 6' OVERALL MAT SIZE IN VESTIBULE @ VESTIBULE STORES
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-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

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

* SCHLUTER SYSTEM ALUMINUM TRIM:

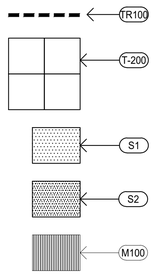
COVE TILE TRIM: INSTALLED AT RESTROOM, SERVICE COUNTER, AND DRINK STATION
SCHLUTER SYSTEMS DILEX-AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
TR100 -OUTSIDE CORNER CONNECTOR PIECE: DILEX-AHK-E90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
-INSIDE CORNER CONNECTOR PIECE: DILEX-AHK-I90/AHK 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

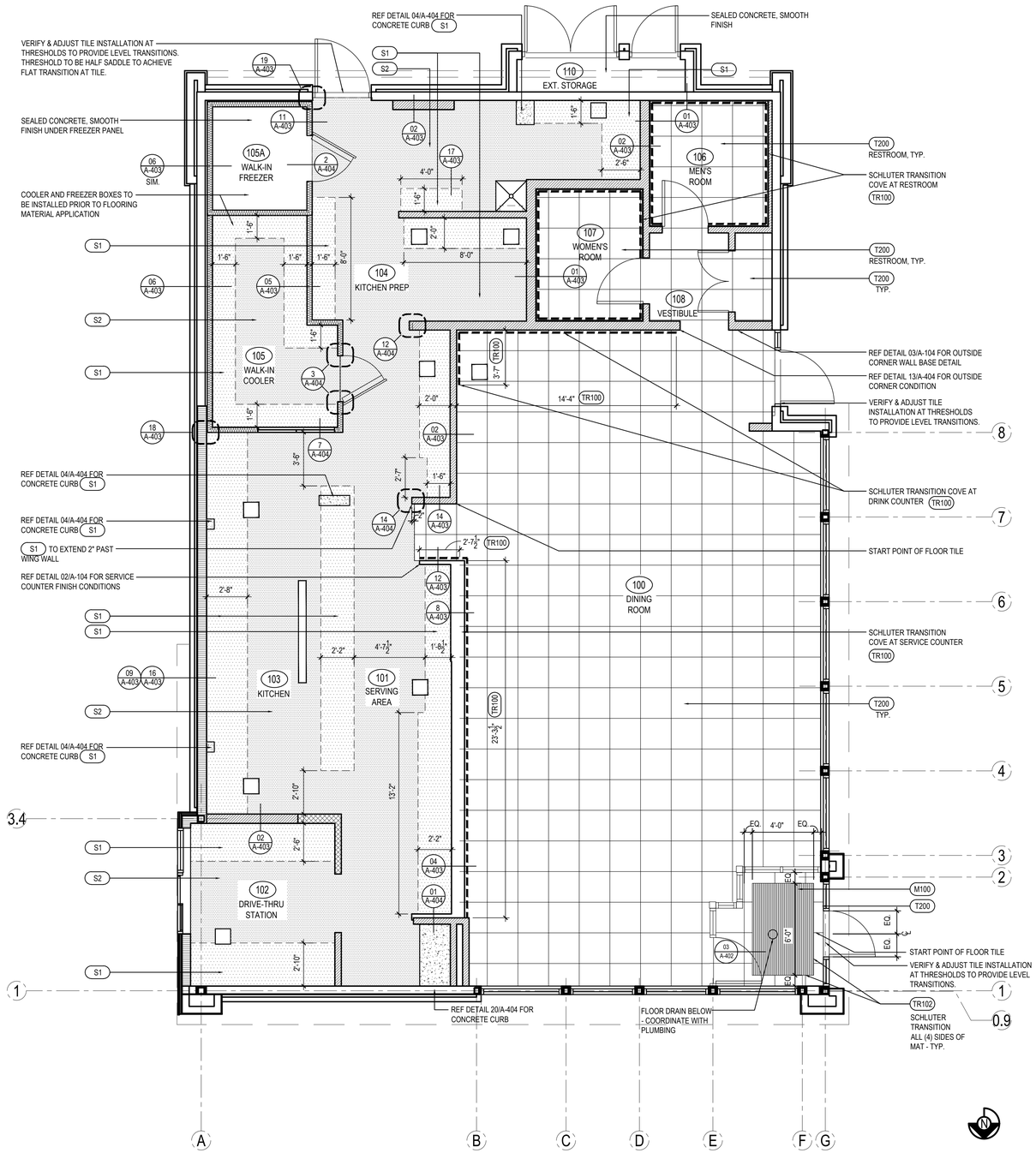
FLOOR TILE TRANSITION TRIM: INSTALLED IN VESTIBULE
SCHLUTER SYSTEMS SCHIENE-R/AE125 (SATIN ANODIZED ALUMINUM)
TR102

* 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

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DRAWN BY: AF

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ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-104
FINISH PLAN AND SCHEDULE

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

11-07-17

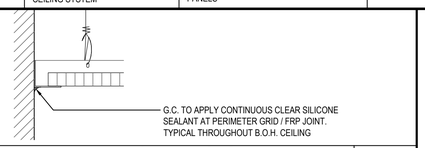
ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK	WATTS
INTERIOR LIGHTING ITEM						
L1	L1	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V WITH 5400 LUMEN PACKAGE, 4000K, AND BAKED-ON WHITE ENAMEL FINISH.	7	DAY-BRITE FIXTURE: 2TG54L-840-4-FS-02F-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC	49.3
L1B	L1B	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 2', 120V WITH 3000 LUMEN PACKAGE, 4000K, AND BAKED-ON WHITE ENAMEL FINISH.	1	DAY-BRITE FIXTURE: 2TG30L-840-2-FS-02F-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC	32.7
L1EM	L1EM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, SAME AS TYPE L1 EXCEPT WITH INTEGRAL BATTERY PACK.	3	DAY-BRITE FIXTURE: 2TG54L-840-4-FS-02F-UNV-DIM-EMLED	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC	49.3
L1BEM	L1BEM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, SAME AS TYPE L1B EXCEPT WITH INTEGRAL BATTERY PACK.	0	DAY-BRITE FIXTURE: 2TG30L-840-2-FS-02F-UNV-DIM-EMLED	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC	32.7
L4HO	L4HO	UNIVERSAL MOUNT LED EXIT SIGN, 120/277V WITH BATTERY PACK, 2 FACE WITH GREEN LETTERS	4	EXITRONIX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC. EXIT SIGNS TO BE WALL MOUNTED UNLESS NOTED OTHERWISE.	3.6
L6A	L6A	LED HOOD LIGHT	12	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELEC. CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL	BUILT INTO HOOD
L6B	L6B	LED WALK-IN COOLER LED LIGHT, 120V, 48"	3	KASON FIXTURE: # 1810LX4000	FURNISHED BY WIC VENDOR, G.R.E., INSTALLED BY GC	39
L19	L19	LED DOWN LIGHT, RECESSED IN CEILING	41	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90+	FURNISHED BY OWNER, INSTALLED BY GC	14
L19EM	L19EM	LED EMERGENCY DOWN LIGHT, RECESSED IN CEILING	7	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	14
L20	L20	3 3/4" ADJUSTABLE MR16 DOWNLIGHT, RECESSED IN CEILING	11	LIGHTOLIER: LYTECASTER - 378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - LED 6W, 35° BEAM	REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION. FURNISHED BY OWNER, INSTALLED BY GC	6
L30	L30	WHITE LED AT SERVICE COUNTER SOFFIT AND DINING ROOM PARTIAL HEIGHT WALL	36 L.F.	LUXEM BRIGHT FIXTURE: BLAZE LED	FURNISHED BY OWNER, INSTALLED BY GC	1.3 WATTS PER FOOT
L43	L43	12" DIA. DECORATIVE BAYLOR PENDANT LF INCANDESCENT	12	LBL LIGHTING, MODEL # P1461ORB BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC	9
L45	L45	12" DIA. DECORATIVE MORILL PENDANT LF INCANDESCENT	5	LBL LIGHTING, MODEL # 6227801-839 BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC	5
L100	L-100	MICRO INVERTER	1	ISOLITE #IMI 125	FURNISHED BY OWNER, INSTALLED BY GC	
	S	SPEAKER			FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR	
EXTERIOR LIGHTING						
L40	L40	LINEAR LED LIGHT IN EXTERIOR STORAGE ROOM	1	COOPER LIGHTIING, MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	4' LED VAPORTITE FIXTURE, SURFACE MOUNTED, FURNISHED BY OWNER, INSTALLED BY GC	56
L85	L85	WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	HOWARD LIGHTING PRODUCTS LED WALL PACK #VL305 30W LED, 120V WITH BRONZE FINISH	OVER EXTERIOR SERVICE DOOR. REFER TO ARCHITECTURAL ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC.	29
L86		EXTERIOR EMERGENCY LIGHT	2	EXITRONIX, MLED1-G-WP	OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER TO ARCHITECTURAL ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC	1.5
L86 AEM		EXTERIOR RECESSED EMERGENCY LIGHT	1	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	14
L90		DECORATIVE LED WALL SCONCE	2	HINKLEY LIGHTIING, ATLANTIS 1649BZ-LED,	AT PORTAL OF ENTRY DOOR. REFER TO ARCHITECTURAL ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC	11
L91		DECORATIVE LED WALL SCONCE	4	HINKLEY LIGHTING, KORE; BRONZE; 1872BZ-LED	ALONG REAR EIFS BAND FURNISHED BY OWNER, INSTALLED BY GC	5
L97		LED MOTION SECURITY FLOODLIGHT	2	LITHONIA LIGHTING OLF 2RH 40K 120V MO BZ	FURNISHED BY OWNER, INSTALLED BY GC	25

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

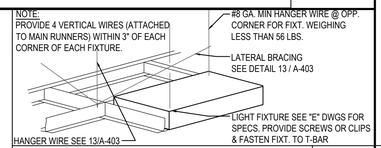
CEILING SCHEDULE

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

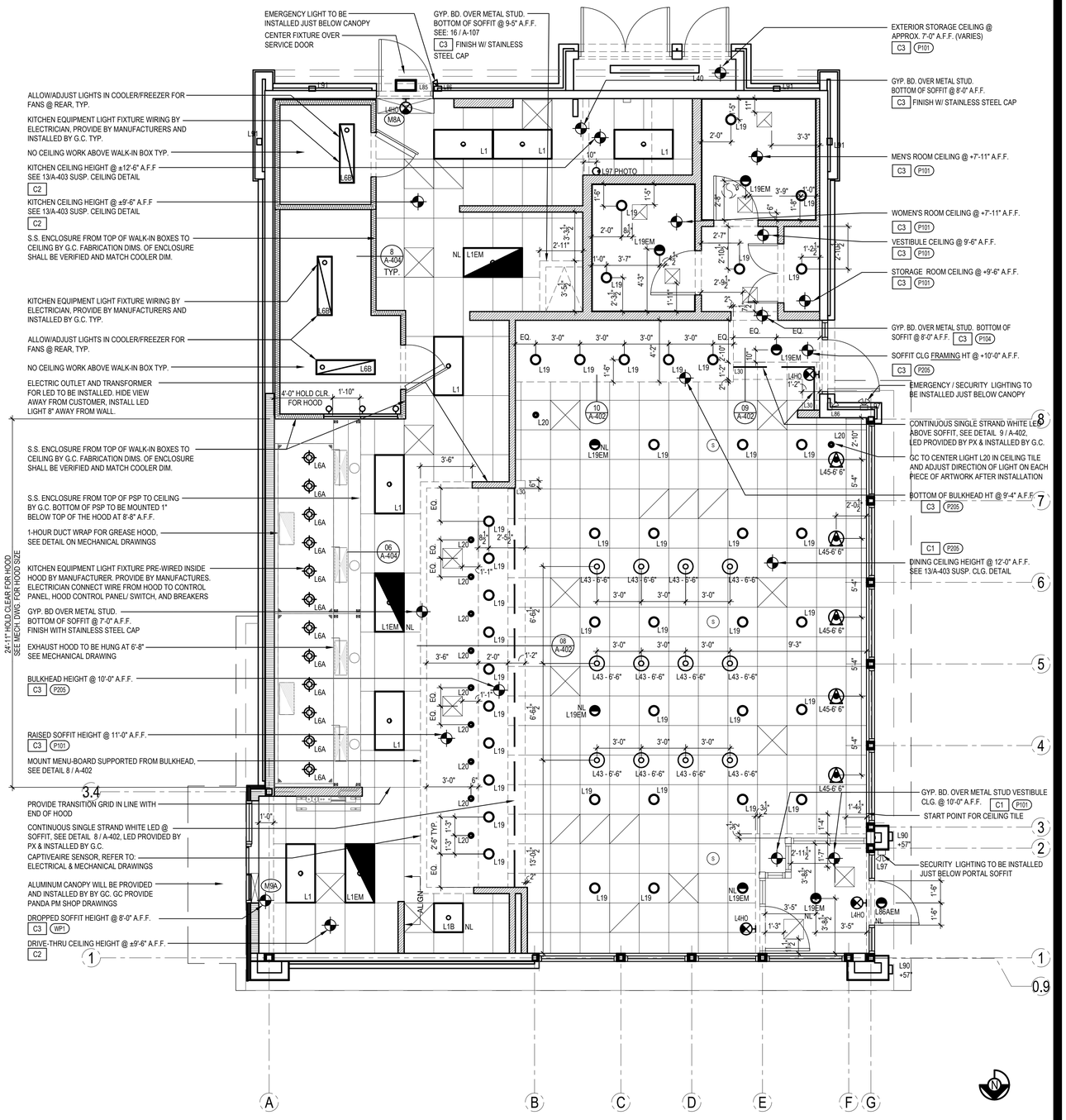
NO	MANUFACTURER	DESCRIPTION	MATERIAL	FINISH
C1	ARMSTRONG	2' X 2' SUSPENDED T-BAR GRID CEILING SYSTEM	CUSTOM #PN91311	T-BAR AND GRID COLOR: SEPIA CONTACT AT ARMSTRONG-SHERRY BRUNT 1-800-442-4212
C2	USG	2' X 4' SUSPENDED T-BAR GRID CEILING SYSTEM	"VINYL ROCK" VINYL CLAD GYP. BD PANELS	SMOOTH AND WASHABLE WHITE
C3	GOLD BOND	MONOLITHIC CEILING ON METAL FRAMING	5/8" GYP. BD.	SMOOTH PAINT - WHITE AND WASHABLE
C4	USG	2' X 2' SUSPENDED T-BAR GRID CEILING SYSTEM	"VINYL ROCK" VINYL CLAD GYP. BD PANELS	PAINT GRID AND TILES AS SHOWN ON DETAILS



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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REVISIONS:

ISSUE DATE:

STATE PERMIT SET	02/10/2021

DRAWN BY: AF

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

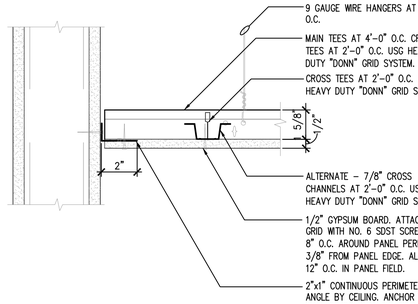
AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

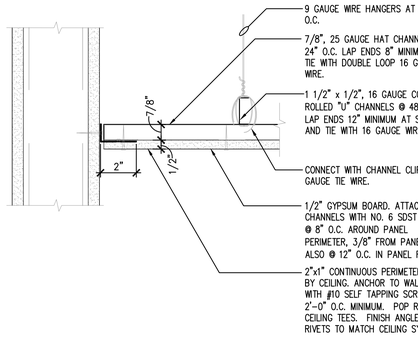
A-105
REFLECTED CEILING PLAN

TRUE WARM & WELCOME 2300 R4



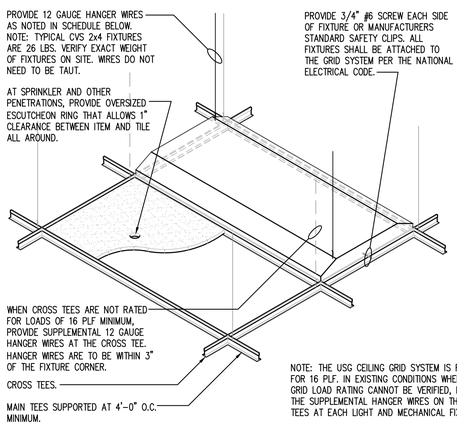
USG - FLAT CEILING DETAIL | 12

Scale= 3" = 1'-0" | A-106



STANDARD - FLAT CEILING DETAIL | 11

Scale= 3" = 1'-0" | A-106

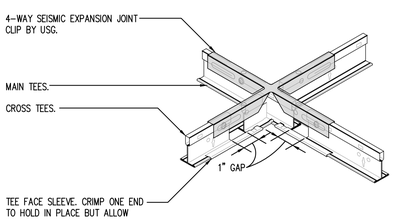


LIGHT FIXTURE WEIGHT	# OF WIRES
LESS THAN 10 LBS.	(1) 12 GAUGE WIRE
GREATER THAN 10 LBS. – LESS THAN 56 LBS.	(2) 12 GAUGE WIRE
GREATER THAN 56 LBS.	DIRECT SUPPORT FROM STRUCTURE ABOVE
ALL PENDANT HUNG FIXTURES	(1) 9 GAUGE WIRE

F.P. & HVAC WEIGHT	# OF WIRES
LESS THAN 20 LBS.	NONE
GREATER THAN 20 LBS. – LESS THAN 56 LBS.	(2) 12 GAUGE WIRE
GREATER THAN 56 LBS.	DIRECT SUPPORT FROM STRUCTURE ABOVE

LIGHT FIXTURE SUPPORT | 10

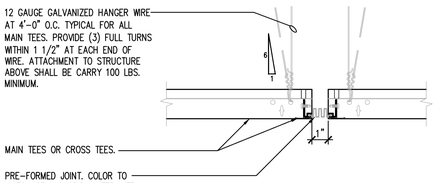
Scale= 3/4" = 1'-0" | A-106



NOTE: THIS DETAIL ONLY APPLIES TO CEILING AREAS OVER 2,500 S.F. CEILING SHALL BE SEPARATED INTO AREAS NO MORE THAN 2,500 S.F. AND THOSE AREAS SHALL HAVE A RATIO THAT DOES NOT EXCEED 1:4.

SEISMIC SEPARATION JOINT - ALT. | 9

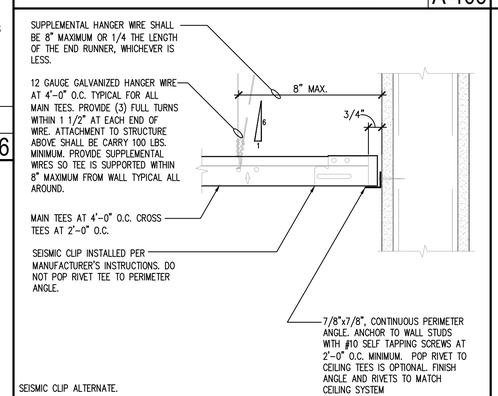
Scale= 3" = 1'-0" | A-106



NOTE: THIS DETAIL ONLY APPLIES TO CEILING AREAS OVER 2,500 S.F. CEILING SHALL BE SEPARATED INTO AREAS NO MORE THAN 2,500 S.F. AND THOSE AREAS SHALL HAVE A RATIO THAT DOES NOT EXCEED 1:4.

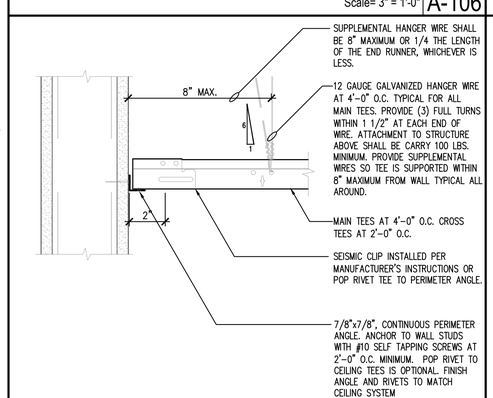
SEISMIC SEPARATION JOINT - TYP. | 8

Scale= 3" = 1'-0" | A-106



UNRESTRAINED WALL - 7/8" MOLDING | 7

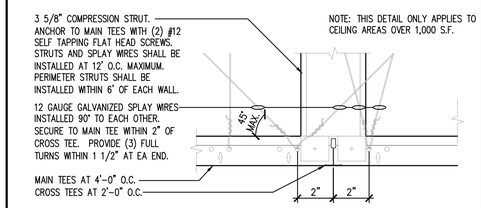
Scale= 3" = 1'-0" | A-106



RESTRAINED WALL - 7/8" MOLDING | 6

Scale= 3" = 1'-0" | A-106

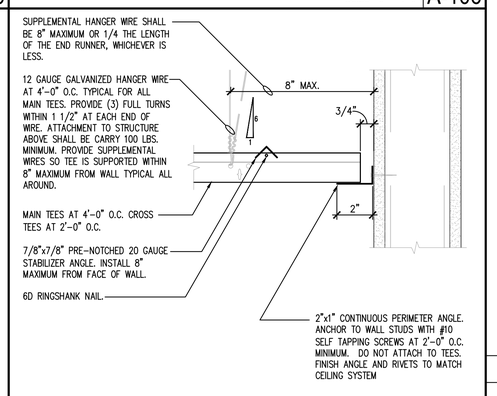
ALTERNATE STRUT	TYP. MAX. LENGTH
3/4" x 1/2" x 0.059" CHANNEL	26"
(2) 3/4" x 1/2" x 0.059" CHANNEL BACK TO BACK	39"
1 1/2" x 9/16" x 0.059" CHANNEL	33"
1 1/2" x 9/16" x 0.059" CHANNEL BACK TO BACK	44"
1 5/8" x 1 1/4" x 0.0197" CHANNEL	106"
(2) 1 5/8" x 1 1/4" x 0.0197" CHANNEL BACK TO BACK	141"
1/2" DIAMETER EMT CONDUIT, 0.042" WALL THICKNESS	47"
3/4" DIAMETER EMT CONDUIT, 0.049" WALL THICKNESS	61"
1" DIAMETER EMT CONDUIT, 0.057" WALL THICKNESS	78"
1 1/4" DIAMETER EMT CONDUIT, 0.065" WALL THICKNESS	102"
1 1/2" DIAMETER EMT CONDUIT, 0.065" WALL THICKNESS	118"
2" DIAMETER EMT CONDUIT, 0.065" WALL THICKNESS	150"
3 5/8" 20 GAUGE C-STUD (33KSI)	144"
3 5/8" 18 GAUGE C-STUD (33KSI)	168"
3 5/8" 16 GAUGE C-STUD (33KSI)	168"
USG TELESCOPING STRUT - VSA 18/30	18"-30"
USG TELESCOPING STRUT - VSA 30/48	30"-48"
USG TELESCOPING STRUT - VSA 48/84	48"-84"
USG TELESCOPING STRUT - VSA 84/102	84"-102"
USG TELESCOPING STRUT - VSA 102/120	102"-120"
USG TELESCOPING STRUT - VSA 120/144	120"-144"



NOTE: THIS DETAIL ONLY APPLIES TO CEILING AREAS OVER 1,000 S.F.

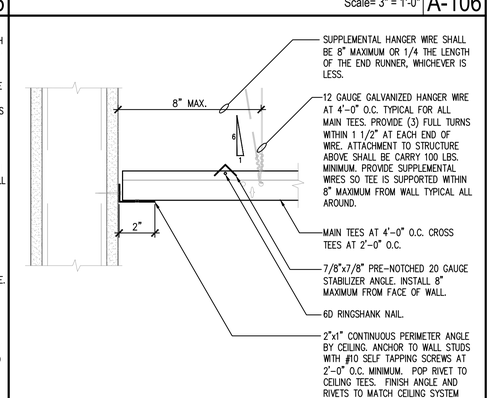
LATERAL BRACING - TYP. | 5

Scale= 3" = 1'-0" | A-106



UNRESTRAINED WALL - 2" MOLDING | 4

Scale= 3" = 1'-0" | A-106



RESTRAINED WALL - 2" MOLDING | 3

Scale= 3" = 1'-0" | A-106

GENERAL CEILING REQUIREMENTS – LAY-IN ACOUSTICAL CEILINGS

1. CEILINGS IN DESIGN CATEGORIES "D", "E", & "F" SHALL BE DESIGNED AND INSTALLED PER THE REQUIREMENTS OF ASTM C635, C636 AND BY REFERENCE ASTM E580.
2. THE T-BAR CEILING GRID SYSTEM SHALL BE RATED AS "HEAVY DUTY".
3. CEILING COMPONENTS SHALL BE PER THE MANUFACTURING REQUIREMENTS OF ASTM C635, PER THE BASIC INSTALLATION REQUIREMENTS OF ASTM C636 AND BY REFERENCE ASTM E580.
4. CERTAIN DETAIL ELEMENTS MAY NOT BE REQUIRED BASED ON THE SPECIFIC RENOVATION CEILING AREA. SEE THE ADJACENT SCHEDULE FOR SEISMIC EXEMPTIONS.

GENERAL CEILING REQUIREMENTS – FLAT GYPSUM BOARD CEILINGS

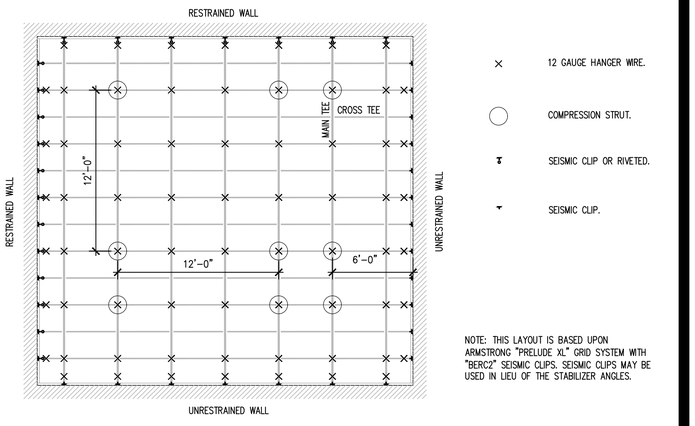
1. FLAT CEILINGS CONSTRUCTED OF LATH, PLASTER OR GYPSUM BOARD, SCREW OR NAIL ATTACHED TO SUSPENSION MEMBERS THAT SUPPORT A CEILING ON ONE LEVEL EXTENDING FROM WALL TO WALL ARE EXEMPT FROM SEISMIC CONSTRUCTION REQUIREMENTS.
2. THE T-BAR CEILING GRID SYSTEM SHALL BE RATED AS "HEAVY DUTY".
3. CEILING COMPONENTS SHALL BE PER THE MANUFACTURING REQUIREMENTS OF ASTM C635, PER THE BASIC INSTALLATION REQUIREMENTS OF ASTM C636.
4. PROVIDE CONTROL JOINTS SO CEILING AREAS DO NOT EXCEED 900 S.F. IF A CONTROL JOINT IS PROVIDED AROUND THE PERIMETER OF THE ROOM THEN PROVIDE CONTROL JOINTS SO THAT CEILING ARAS DO NOT EXCEED 2500 S.F.

   AT LONG RUNNING SOFFITS PROVIDE CONTROL JOINTS @ 30' MAXIMUM.

   PROVDE CONTROL JOINTS AT THE WINGS OF "L", "U", AND "T" SHAPED CEILINGS.

EXEMPTIONS BY CEILING AREA

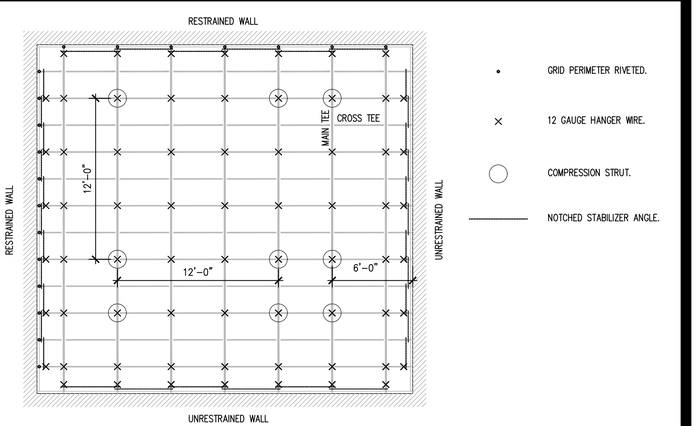
LESS THAN 144 SF	2" WALL MOLDING IS NOT REQUIRED. PERIMETER HANGER WIRES NOT REQUIRED. PERIMETER TEE STABILIZATION NOT REQUIRED. LATERAL BRACING SPLAY WIRES NOT REQUIRED. COMPRESSION STRUT NOT REQUIRED. LIGHT & HVAC FIXTURE SEISMIC CLIPS AND SUPPLEMENTAL HANGER WIRES NOT REQUIRED. SEISMIC SEPARATION JOINT NOT REQUIRED.
145 SF – 1,000 SF	LATERAL BRACING SPLAY WIRES NOT REQUIRED. COMPRESSION STRUT NOT REQUIRED. SEISMIC SEPARATION JOINT NOT REQUIRED.
1,000 SF – 2,500 SF	SEISMIC SEPARATION JOINT NOT REQUIRED.
GREATER THAN 2,500 SF	NONE.



NOTE: THIS LAYOUT IS BASED UPON ARMSTRONG "PRELUDE XL" GRID SYSTEM WITH "BERC2" SEISMIC CLIPS. SEISMIC CLIPS MAY BE USED IN LIEU OF THE STABILIZER ANGLES.

SCHEMATIC CEILING LAYOUT - 7/8" MOLDING | 2

Scale= 3/16" = 1'-0" | A-106



SCHEMATIC CEILING LAYOUT - 2" MOLDING | 1

Scale= 3/16" = 1'-0" | A-106

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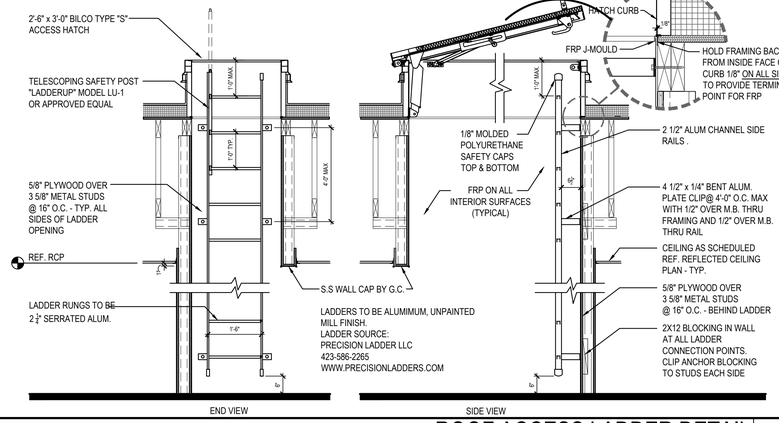
2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

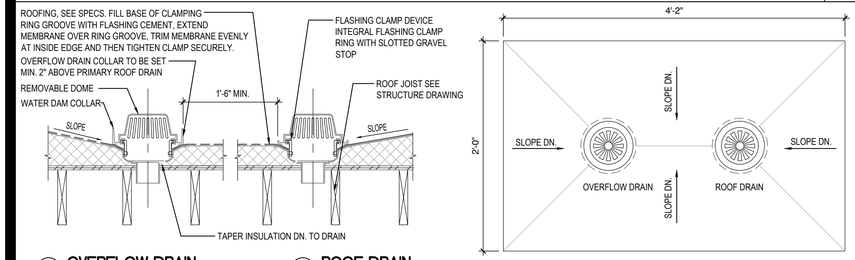
A-106

SEISMIC CEILING DETAILS



ROOF ACCESS LADDER DETAIL 16

Scale= 1/4" = 1'-0" A-107



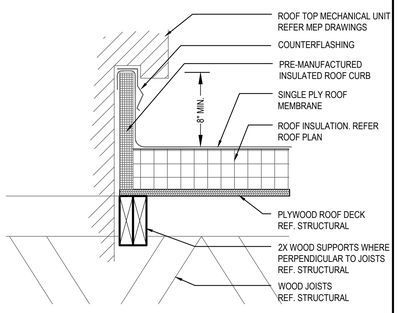
C **OVERFLOW DRAIN**
NOTE:
WHERE INSULATION IS SPECIFIED PROVIDE AN ADJUSTABLE COLLAR AND SET IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS.

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



MECHANICAL CURB DETAIL 18

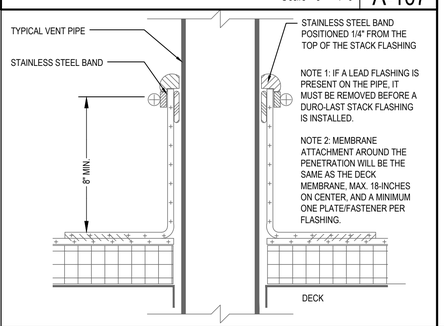
Scale= NTS A-107

NOT USED 14

Scale= 3" = 1'-0" A-107

NOT USED 17

Scale= NTS A-107



PLUMBING VENT DETAIL 13

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. EXTEND EXHAUSTS TO 4'-0" ABOVE T.O. ROOF.

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

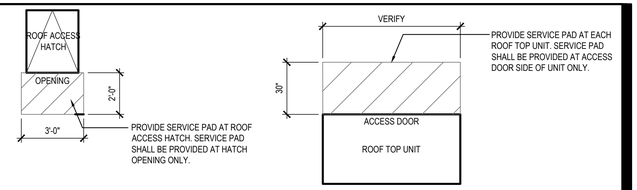
14. PROVIDE SERVICE PAD AT EACH UNIT ONLY AT SERVICE ACCESS DOOR

15. ALL GAS PIPING ON ROOF TO BE PAINTED SAFETY YELLOW

16. ALL PENETRATIONS IN ROOF FOR ANY EQUIPMENT, VENTING, POWER, ETC. TO BE ROUGHED IN PRIOR TO ROOF INSTALLATION

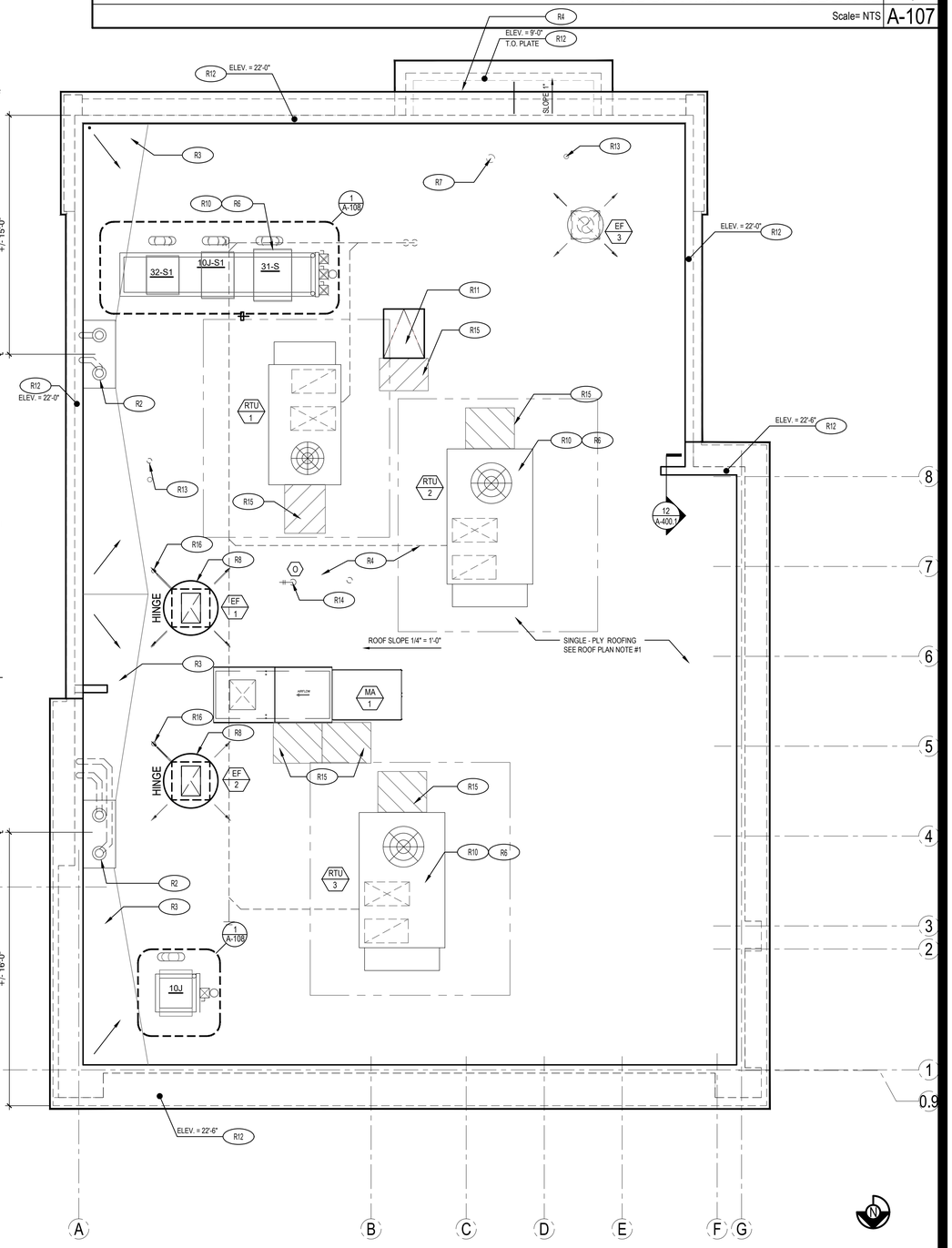
ROOF PLAN KEYNOTES:

- R1 REF: EQUIPMENT RACK (SEE SHEET A-108)
- 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 GALV RIGID METAL CONDUIT & WEATHERHEAD AND PULL STRING FOR SATELLITE CABLE. EXACT LOCATION ON ROOF TO BE COORDINATED WITH PANDA PROJECT MANAGER AND SERVICE PROVIDER. REFER TO E-104/A-108 FOR SIZE AND INSTALLATION.
- 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
- R9 NOT USED
- R10 MECHANICAL UNIT CURB. SEE DETAIL 18/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



ROOF WALKWAY PAD DETAIL 4

Scale= NTS A-107



ROOF PLAN 1

Scale= 1/4" = 1'-0" A-107

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Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

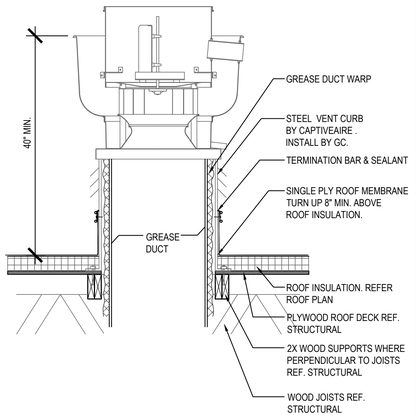
AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR
ARCHITECTS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

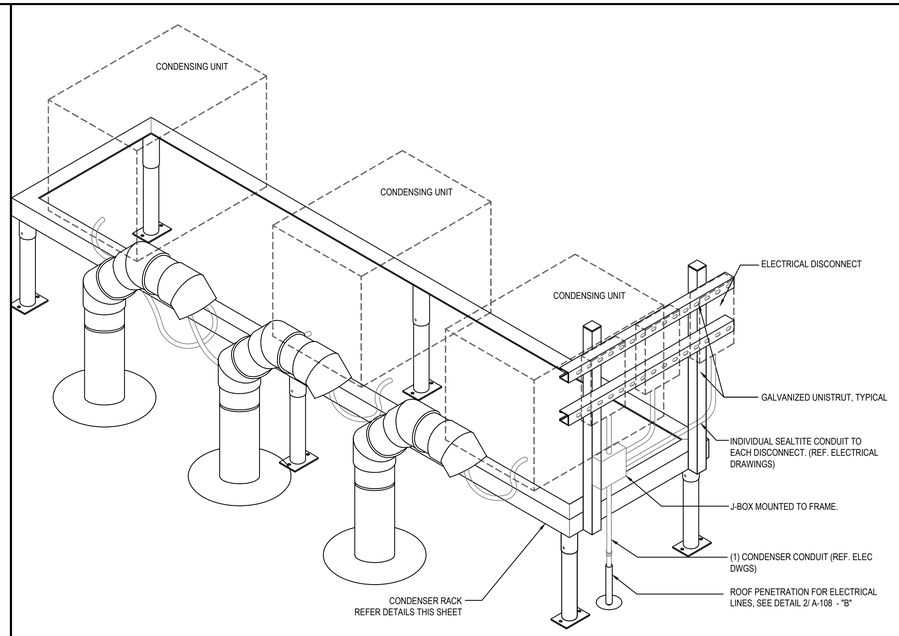
A-107
ROOF PLAN

TRUE WARM & WELCOME 2300 R4



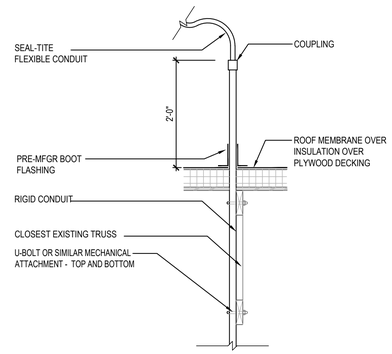
ROOF EXHAUST FAN 5

Scale= 1/4" = 1'-0" A-108



CONDENSER RACK ISOMETRIC 3

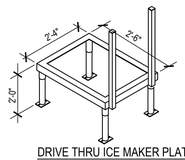
Scale= 3/4" = 1'-0" A-108



CONDITION "B" - AT CONDENSER ELECTRICAL LINES

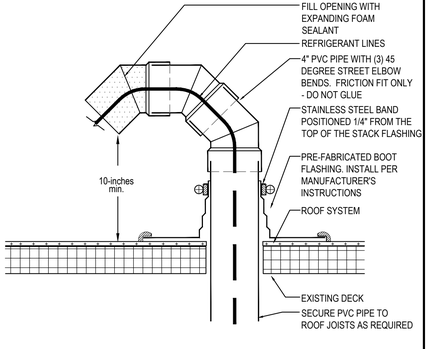
ROOF PENETRATION DETAIL AT REF. / ELEC. LINES 2

Scale= 3/4" = 1'-0" A-108



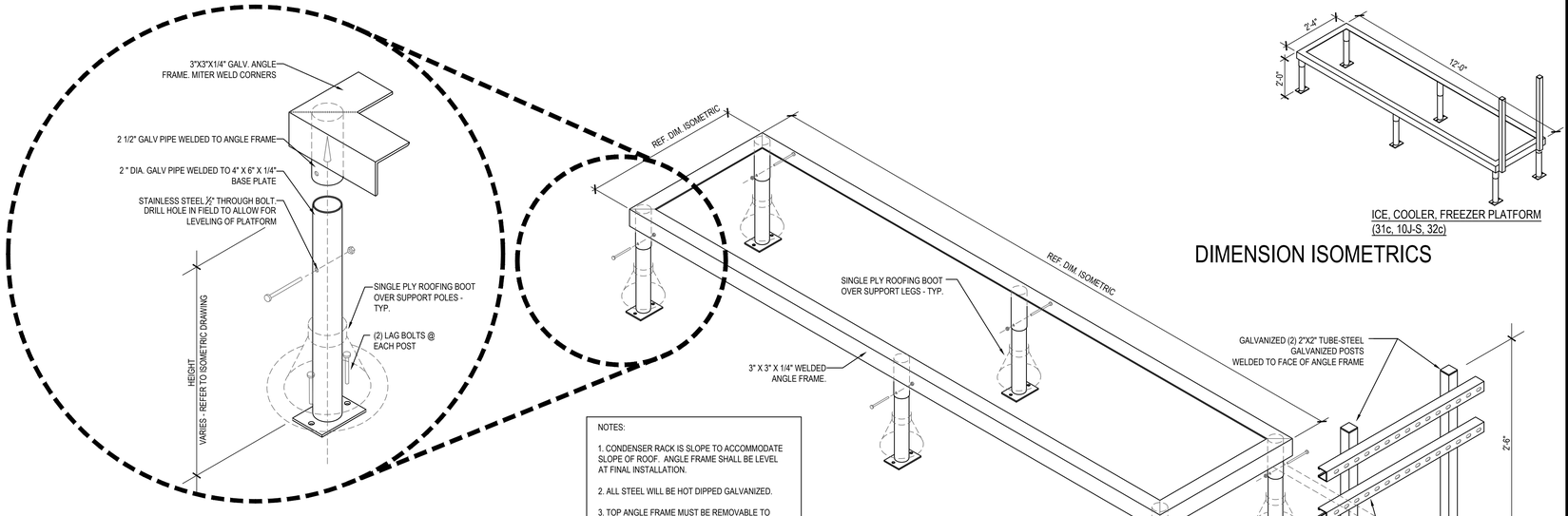
DRIVE THRU ICE MAKER PLATFORM

ICE, COOLER, FREEZER PLATFORM (31c, 10J-S, 32c)



PVC ROOF PENETRATION 4

Scale= 1/2" = 1'-0" A-108



NOTES:

1. CONDENSER RACK IS SLOPE TO ACCOMMODATE SLOPE OF ROOF. ANGLE FRAME SHALL BE LEVEL AT FINAL INSTALLATION.
2. ALL STEEL WILL BE HOT DIPPED GALVANIZED.
3. TOP ANGLE FRAME MUST BE REMOVABLE TO INSTALL PRE=FABRICATED BOOT FLASHING.
4. ALL CONNECTING HARDWARE (CARRIAGE BOLTS, LAG BOLTS, NUTS, WASHERS, ETC) SHALL BE STAINLESS STEEL.
5. CONTRACTOR TO SUPPLY AND INSTALL ATTACHMENTS/HARDWARE REQUIRED TO MOUNT CONDENSER EQUIPMENT TO FRAME.
6. UNISTRUT SHALL BE GALVANIZED

DIMENSION ISOMETRICS

FREEZER / COOLER / ICE MAKER CONDENSER RACK DETAILS 1

Scale= 3/4" = 1'-0" A-108

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BROWNSBURG, IN 46112

A-108

CONDENSER RACK DETAIL

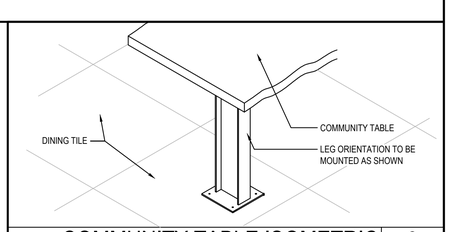
FURNITURE SCHEDULE

Item Code	Type	Material		L x W x H	QUANTITY
T-A1a	LIVE EDGE 4'-0"	WALNUT	PANDA VENDOR	4'-0" L X 28" W X 2" THICK	
T-A1b	LIVE EDGE 6'-0"	WALNUT	PANDA VENDOR	6'-0" L X 28" W X 2" THICK	
T-A1c	LIVE EDGE 8'-0"	WALNUT	PANDA VENDOR	8'-0" L X 28" W X 2" THICK	
T-A1d	LIVE EDGE 10'-0"	WALNUT	PANDA VENDOR	10'-0" L X 28" W X 2" THICK	
T-A2b	COMMUNAL TABLE	-	PANDA VENDOR	XX" L X XX" W	3
T-B1a	2 TOP TABLE	QUARTZ - TETON BEIGE	PANDA VENDOR	21" L X 24" W	
T-B1b	4 TOP TABLE	QUARTZ - TETON BEIGE	PANDA VENDOR	24" L X 48" W	
T-B1c	4 TOP TABLE ADA	QUARTZ - TETON BEIGE	PANDA VENDOR	30" L X 48" W	
T-B2a	ROUND TABLE 42"	QUARTZ	PANDA VENDOR	42" DIAMETER	
T-B3b	TABLE	-	PANDA VENDOR	XX" L X XX" W	5
T-C1a	2 TOP SEATEE	LAMINATE W/ METAL EDGE OILED WALNUT	PANDA VENDOR	21" L X 24" W X 30.25 H	3
T-C1b	4 TOP SEATEE	LAMINATE W/ METAL EDGE OILED WALNUT	PANDA VENDOR	48" L X 24" W X 30.25 H	2
T-C2a	ROUND TABLE 24" DIA	LAMINATE W/ METAL EDGE OILED WALNUT	PANDA VENDOR	24" DIAMETER	
T-C2b	ROUND TABLE 30" DIA	LAMINATE W/ METAL EDGE OILED WALNUT	PANDA VENDOR	30" DIAMETER	
C-A1a	SINGLE BOOTH- 41"	WALNUT W/ EVOLUTION SEDIMENT FABRIC	PANDA VENDOR	41" L X 34 1/8" H	
C-A1b	SINGLE BOOTH- 47"	WALNUT W/ EVOLUTION SEDIMENT FABRIC	PANDA VENDOR	47" L X 34 1/8" H	1
C-A1c	SINGLE BOOTH- 59"	WALNUT W/ EVOLUTION SEDIMENT FABRIC	PANDA VENDOR	59" L X 34 1/8" H	
C-A1d	BOOTH BACK TO BACK- 47"	WALNUT W/ EVOLUTION SEDIMENT FABRIC	PANDA VENDOR	47" L X 34 1/8" H	4
C-A1e	BOOTH BACK TO BACK- 41"	WALNUT W/ EVOLUTION SEDIMENT FABRIC	PANDA VENDOR	41" L X 34 1/8" H	
C-A1f	BOOTH BACK TO BACK- 59"	WALNUT W/ EVOLUTION SEDIMENT FABRIC	PANDA VENDOR	59" L X 34 1/8" H	
C-A4a	SINGLE BOOTH	-	PANDA VENDOR	XX" L X 34 1/8" H	3
C-A4c	SINGLE BOOTH	-	PANDA VENDOR	XX" L X 34 1/8" H	2
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-A1	TRASH BIN	TETON BEIGE / OILED WLANUT	PANDA VENDOR	20" L X 22" W	
F-A2a	TRASH BIN W/ LEFT BROOM HOLDER	TETON BEIGE / OILED WLANUT	PANDA VENDOR	20" L X 27" W	
F-A2b	TRASH BIN W/ RIGHT BROOM HOLDER	TETON BEIGE / OILED WLANUT	PANDA VENDOR	20" L X 27" W	2
F-B1	TRASH LINER W/ CASTERS		PANDA VENDOR		2
F-C1a	LEFT BROOM HOLDER	OILED WALNUT	PANDA VENDOR		
F-C1b	RIGHT BROOM HOLDER	OILED WALNUT	PANDA VENDOR		
L-A1	LOW WALL 3'-6"	OILED WALNUT HORIZONTAL GRAIN	PANDA VENDOR	3'-4" L X 36 3/4" H	
L-A2	LOW WALL 8'-0"	OILED WALNUT HORIZONTAL GRAIN	PANDA VENDOR	8'-0" L X 36 3/4" H	
DS-1	FREE STANDING SHELF	WOOD SHELF W/ METAL FRAME	PANDA VENDOR	2'-10" L X 12" W 66" H	1

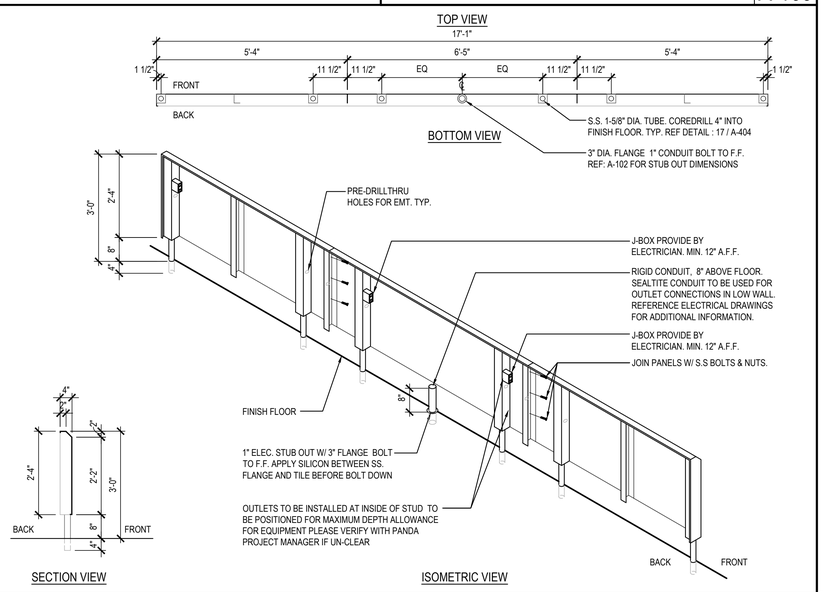
CHAIR SCHEDULE

Item Code	Type	Material		L x W x H	
WALNUT PALLET					
C1n	YARDBIRD DINING CHAIR	WALNUT	PANDA VENDOR	18" H	
C2j8	CHOM CHOM COUNTER STOOL	WALNUT	PANDA VENDOR	22" H	
OAK PALLET					
C1d1	PANDA DINING CHAIR W/ BACK	OAK	PANDA VENDOR	18" H	9
C2j2	PANDA COUNTER STOOL- NO BACK	OAK (PREFERRED STOOL)	PANDA VENDOR	22" H	36
C2g	PANDA COUNTER STOOL W/ BACK	OAK (OPTIONAL)	PANDA VENDOR	22" H	

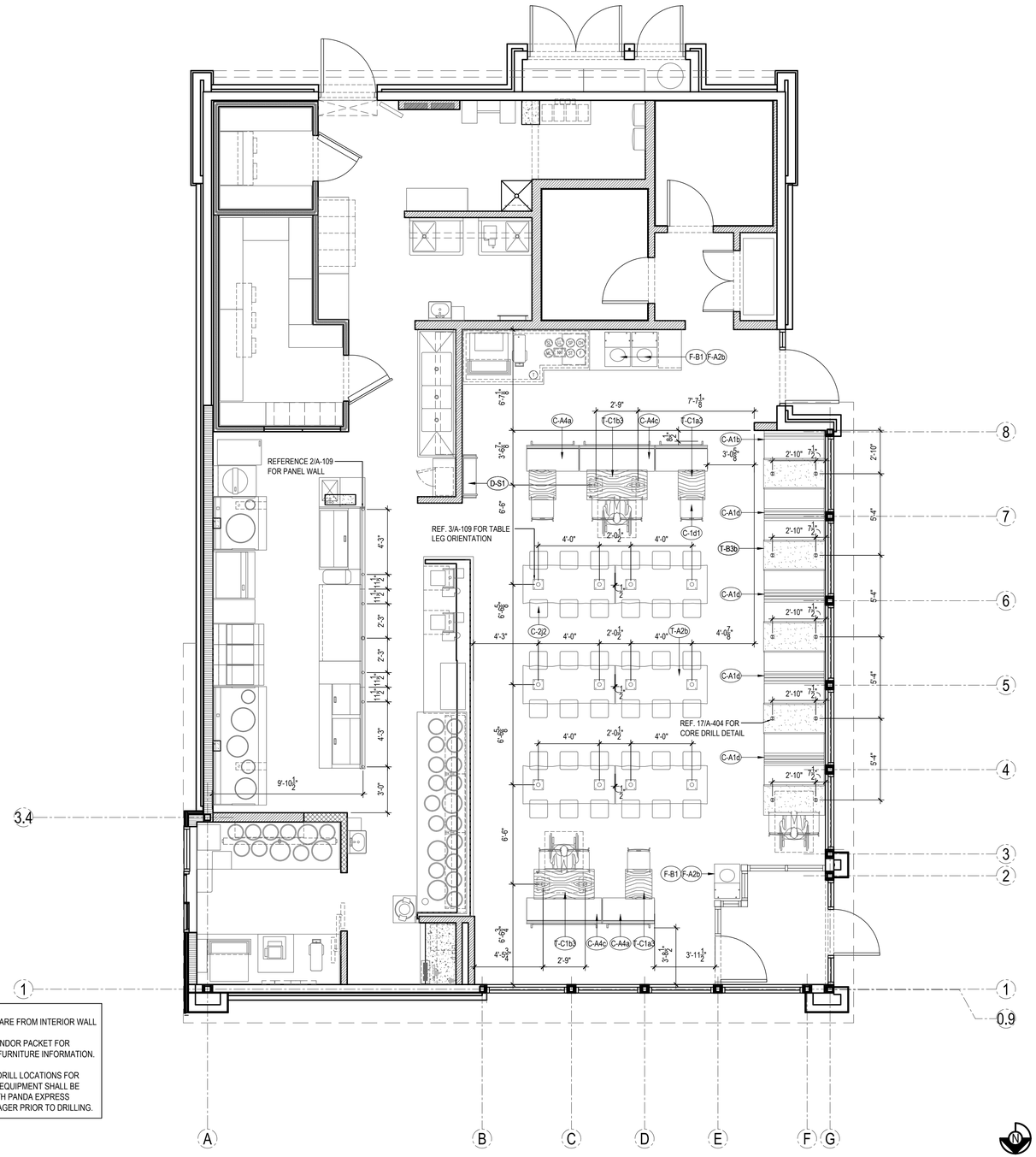
NOTE:
PANDA TEAM TO SELECT CHAIR PALLET WITH MANUFACTURER



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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TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-109
FURNITURE PLAN

TRUE WARM & WELCOME 2300 R4

EXTERIOR FINISH SCHEDULE

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

01-12-21

NO	MANUFACTURER	MFG#	COLOR	FINISH	NOTES
BR-1	BRICK TECH	SUMMIT BRICK COMPANY	216 ALASKAN	SIZE: MODULAR TEXTURE : SMOOTH	CONTACT: TYLER MEHL 248.548.0777 LMEHL@BRICKTECH.COM MORTAR: CUSTOM COLOR TO MATCH BRICK
BR-2	BRICK TECH	SIOUX CITY BRICK	EBONITE SATIN	SIZE: MODULAR TEXTURE : SMOOTH	CONTACT: TYLER MEHL 248.548.0777 LMEHL@BRICKTECH.COM MORTAR: SGS 94X IRON BLACK
EIFS-1	STO	STOTHERM ESSENCE SYSTEM	SW 7069 IRON ORE	FINE	EIFS ACCENT BAND & REAR FACADE ACCENT NOTE: IMPACT RESISTANT EIFS FROM GRADE TO 6'-0" ABOVE FINISHED GRADE
ST-1S	CORONADO STONE PRODUCTS	900 SERIES	#2 GREY	-	STONE CAP (3/8" VERTICAL JOINT - MORTAR TO MATCH STONE CAP)
ST-2S	CONCRETE DESIGNS, INC.	MODEL #: SI 147 S 23-5/8 DP	WI-10 LIMESTONE	-	SILL (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: PUTTY
CD-1	FIBERON	HORIZON	IPE	60% MATERIAL COVERAGE - RANDOM MIX (NON-GROOVE)	COMPOSITE DECKING - CONTACT: BILL ROSS @ 704-756-1980 EMAIL: Billr@fiberondecking.com
CD-2	FIBERON	HORIZON	TUDOR BROWN	40% MATERIAL COVERAGE - RANDOM MIX (NON-GROOVE)	COMPOSITE DECKING - CONTACT: BILL ROSS @ 704-756-1980 EMAIL: Billr@fiberondecking.com
PT-1	SHERWIN WILLIAMS	-	SW 6148 WOOL SKEIN	-	UNDERSIDE OF SOFFIT (ENTRY DOOR)
PT-2	SHERWIN WILLIAMS	-	SW 7067 CITYSCAPE	-	UNDERSIDE OF SOFFIT
MTL-1	EXCEPTIONAL METALS	-	"PANDA EXPRESS IRON ORE"		CAP FLASHING

WINDOW SCHEDULE

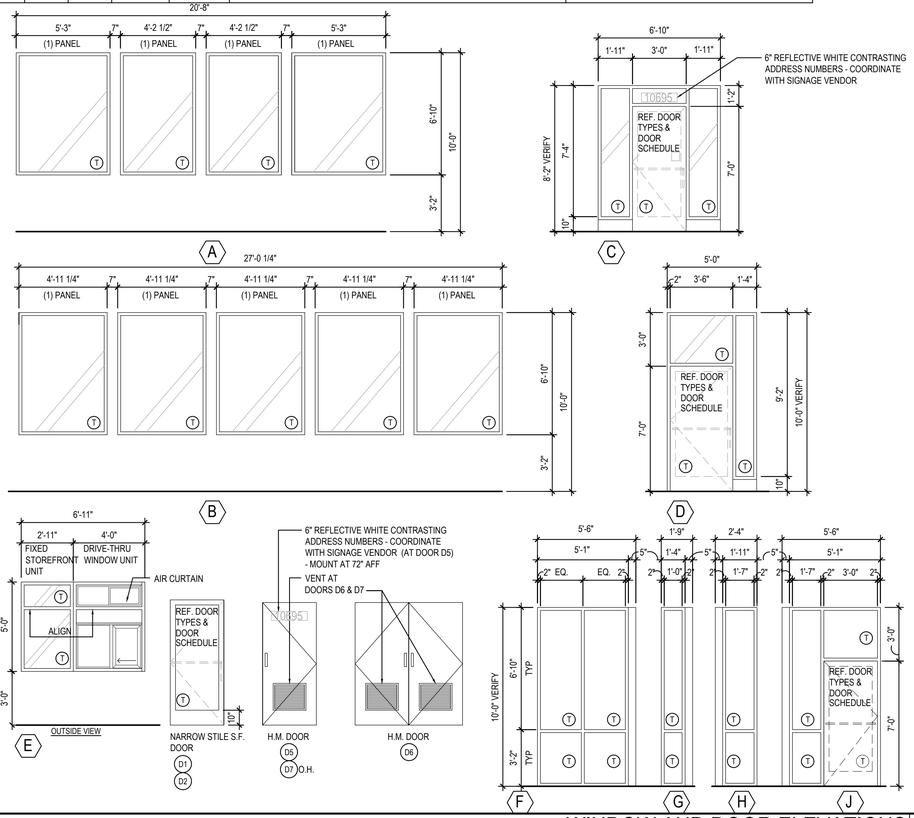
INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

SYM	WIDTH	HEIGHT	GLASS	FRAME	REMARKS
A	20'-8" 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	26'-9 1/2" 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	7'-0"	8'-2"	1" INSULATED GLASS	DARK BRONZE ALUMINUM STOREFRONT	1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME
D	5'-11"	10'-0"	1" INSULATED GLASS	DARK BRONZE ALUMINUM STOREFRONT	1" INSULATED GLAZING, IN 4.5" X 2" IN ANODIZED ALUMINUM FRAME
E	7'-3 3/4"	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
F	5'-6"	10'-0"	SINGLE PANE GLASS	DARK BRONZE ANODIZED ALUMINUM	SINGLE PANE VESTIBULE GLAZING
G	1'-9"	10'-0"	SINGLE PANE GLASS	DARK BRONZE ANODIZED ALUMINUM	SINGLE PANE VESTIBULE GLAZING
H	2'-4"	10'-0"	SINGLE PANE GLASS	DARK BRONZE ANODIZED ALUMINUM	SINGLE PANE VESTIBULE GLAZING
J	5'-6"	10'-0"	SINGLE PANE GLASS	DARK BRONZE ANODIZED ALUMINUM	SINGLE PANE VESTIBULE GLAZING

NOTES

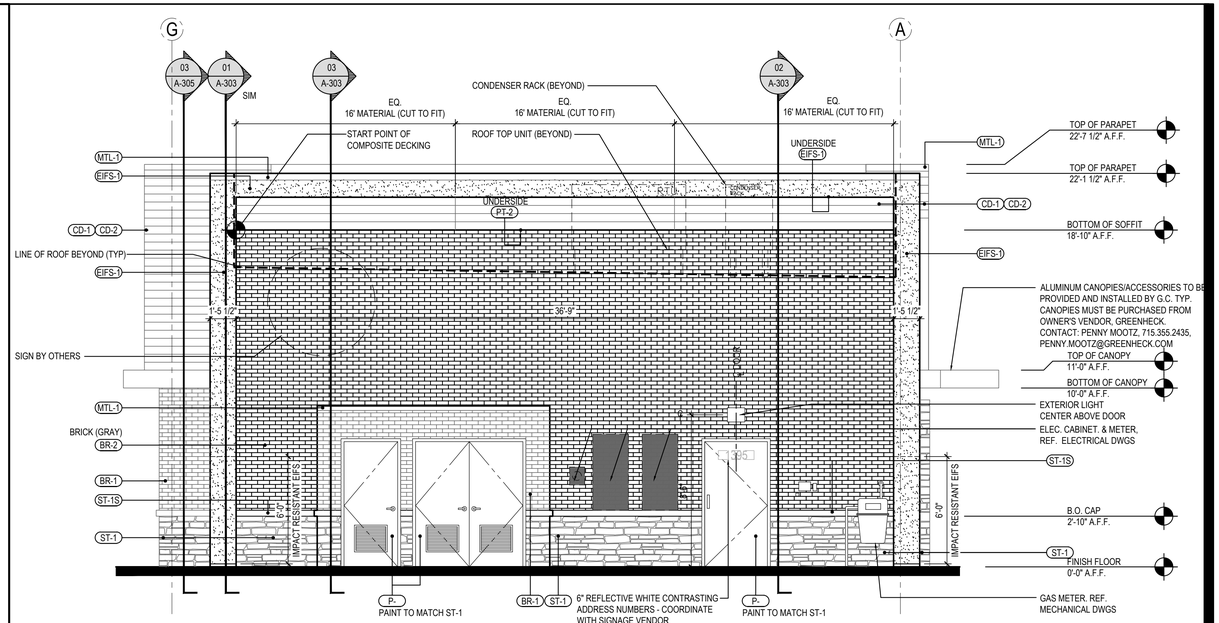
1. INSULATING GLASS VITRO ARCHITECTURAL GLAZING SOLARBAN 60 LOW E: WINTER U=0.29 SHGC: 0.25 VIS TRANS: 35%
2. DOORS: FULL GLAZED DOORS W/10" KICK BASE, ANODIZED ALUM FINISH. REFER HARDWARE SCHEDULE.
3. WINDOW DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. G.C. TO VERIFY ACTUAL WINDOW DIMENSIONS PRIOR TO FABRICATION 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 0F BUILDING CODE.

(T) TEMPERED GLASS



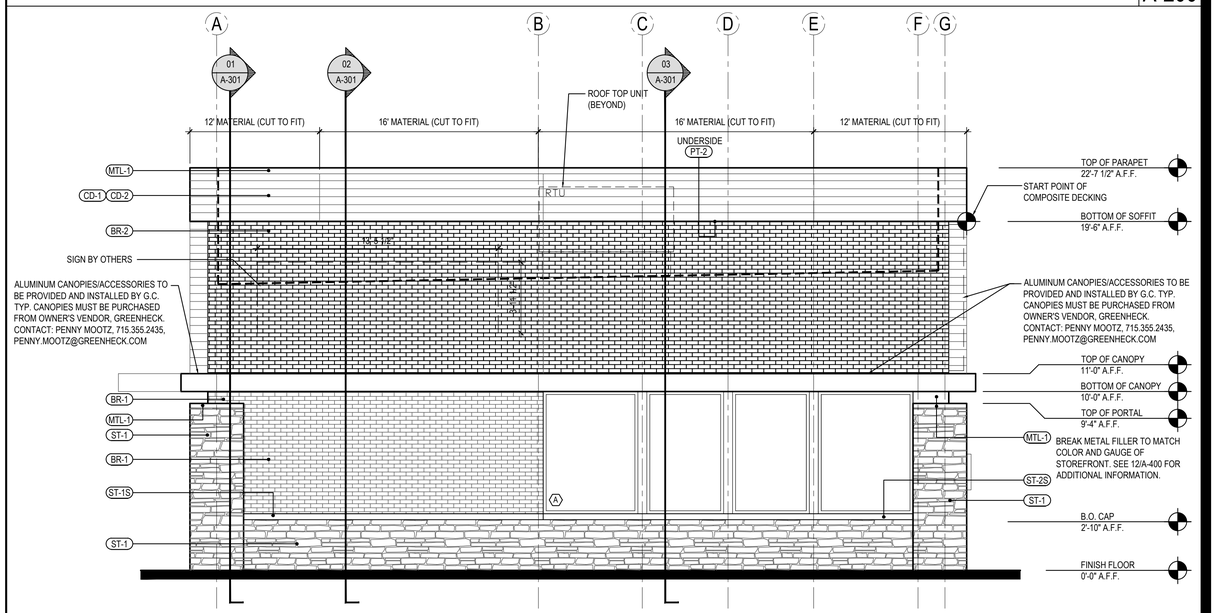
WINDOW AND DOOR ELEVATIONS

Scale= NTS | 3 | A-200



EAST ELEVATION

Scale= 1/4" = 1'-0" | 2 | A-200



WEST ELEVATION

Scale= 1/4" = 1'-0" | 1 | A-200

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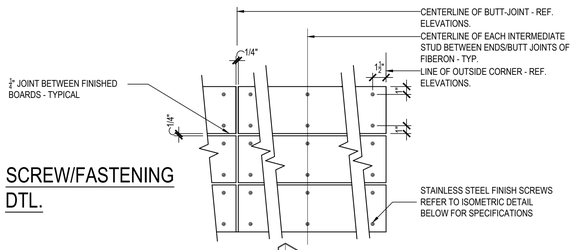
A-200

EXTERIOR ELEVATIONS



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)

1/4" JOINT BETWEEN FINISHED BOARDS. @ ENDS & @ BUTT JOINTS - TYPICAL

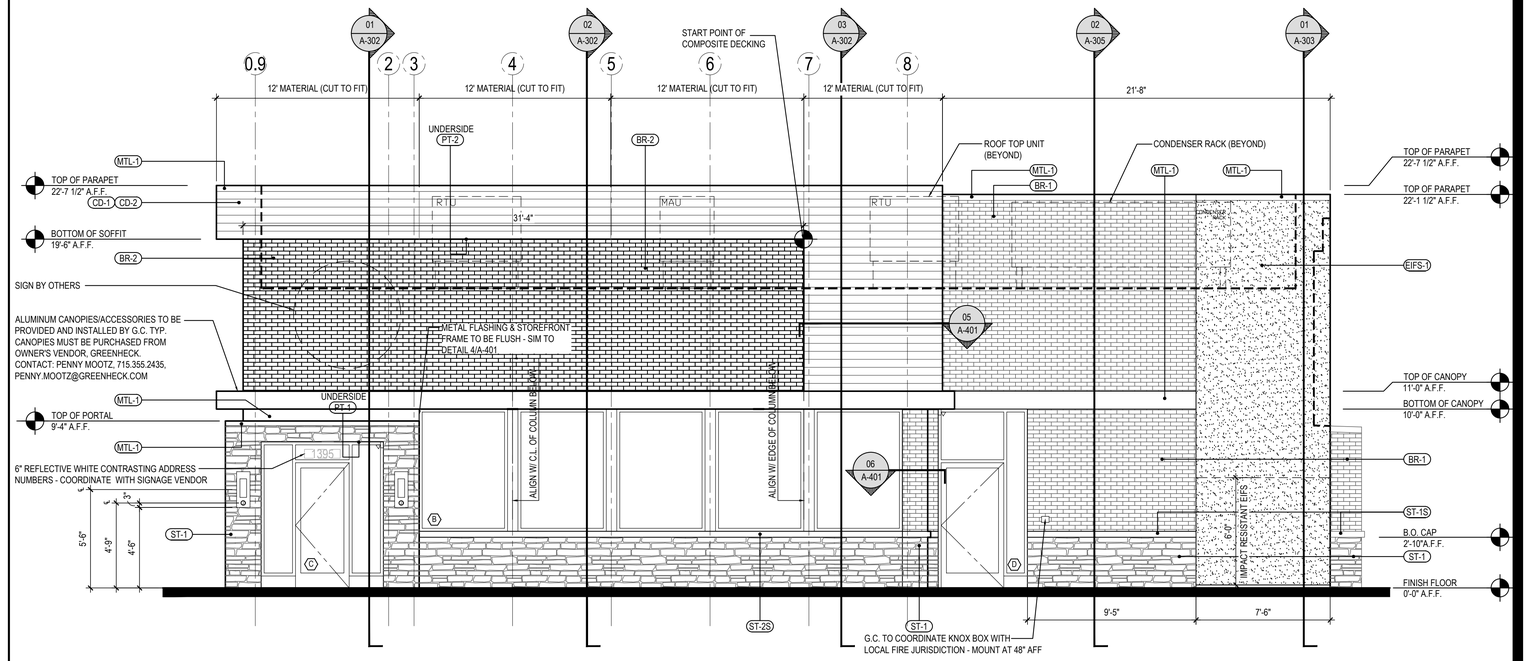
CONTINUOUS COMPOSITE INSULATING WALL SHEATHING WHERE REQUIRED, REF. TO ARCHITECTURAL WALL SECTIONS

SCREW FASTEN BATTENS@16" O.C. VERTICALLY

SURFACE MOUNTING FASTENING SYSTEM

COMPOSITE DECK FASTENING & WATER PROOFING DTLS | 3

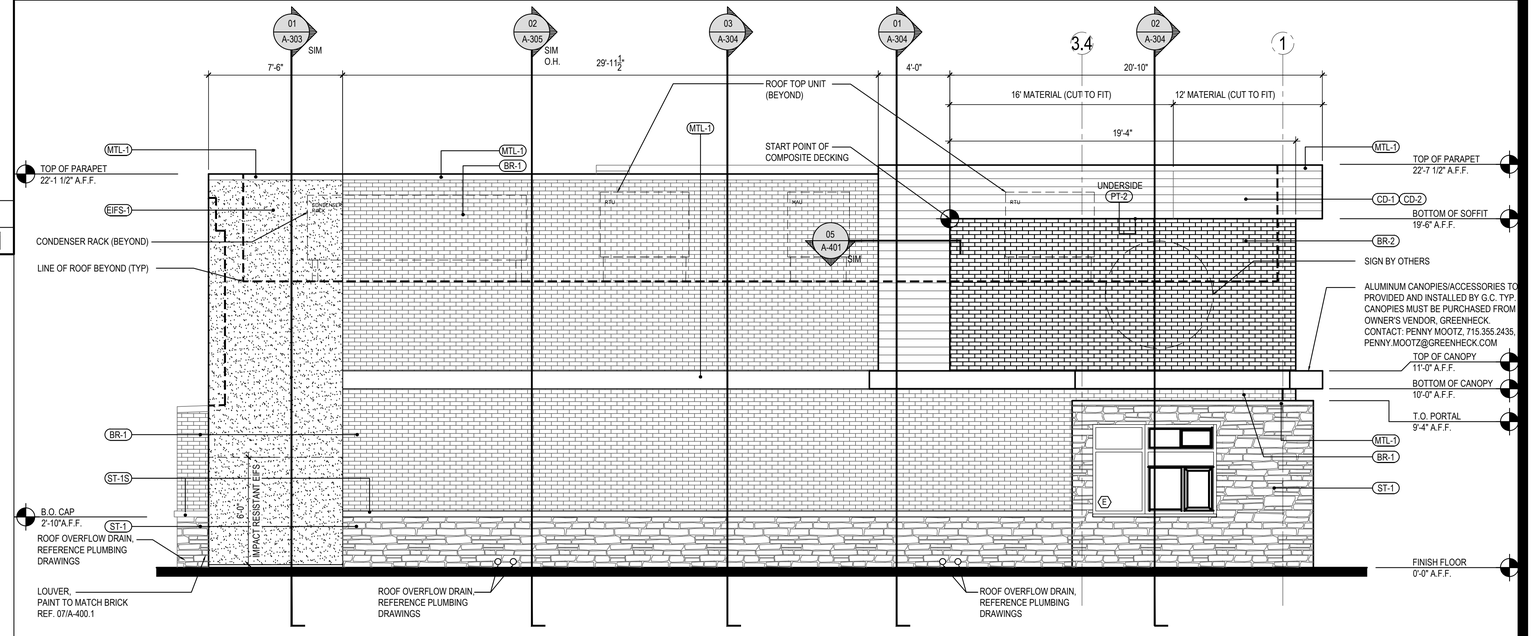
Scale= 1 1/2" = 1'-0" | A-201



*SEE SHEET A-200 FOR EXTERIOR FINISH SCHEDULE

SOUTH ELEVATION | 2

Scale= 1/4" = 1'-0" | A-201



*SEE SHEET A-200 FOR EXTERIOR FINISH SCHEDULE

NORTH ELEVATION | 1

Scale= 1/4" = 1'-0" | A-201

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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DRAWN BY: AF

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

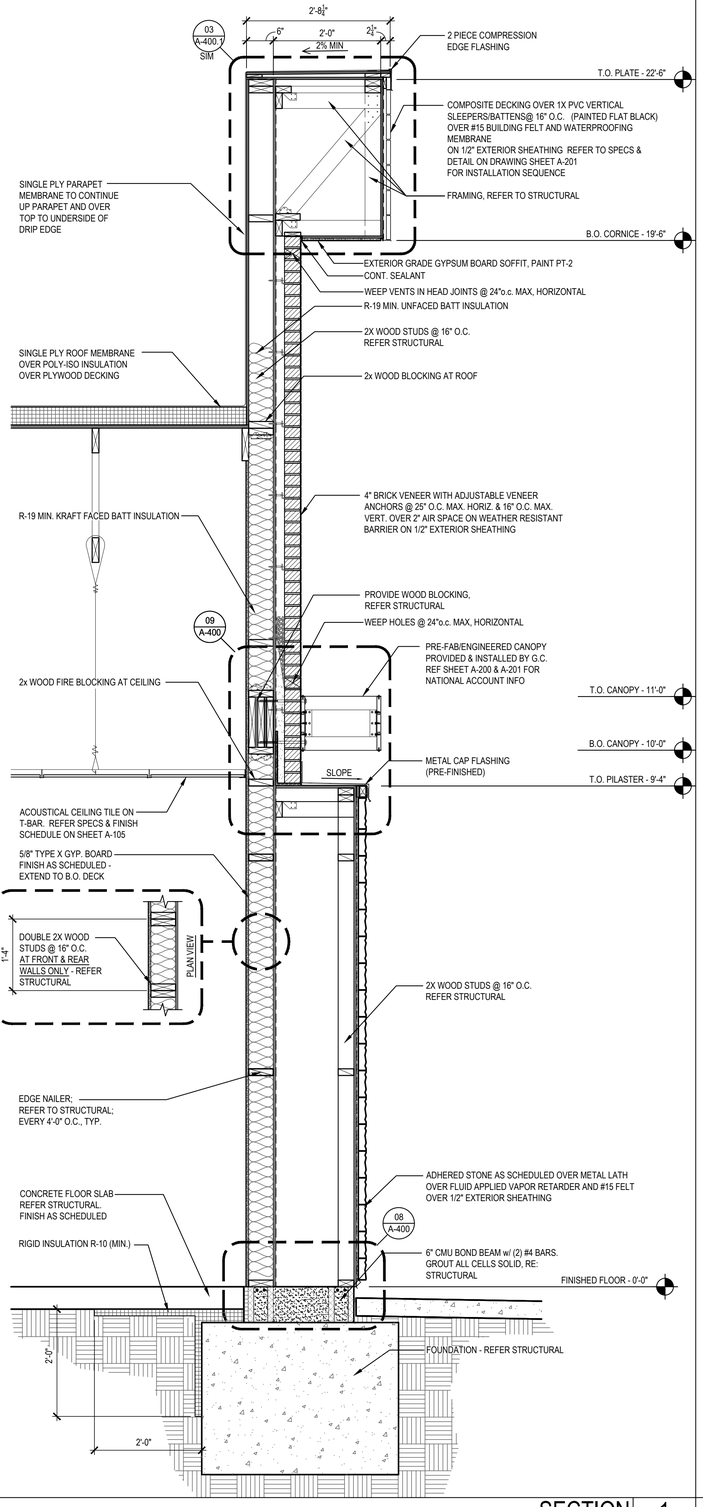
NORR ARCHITECTS PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

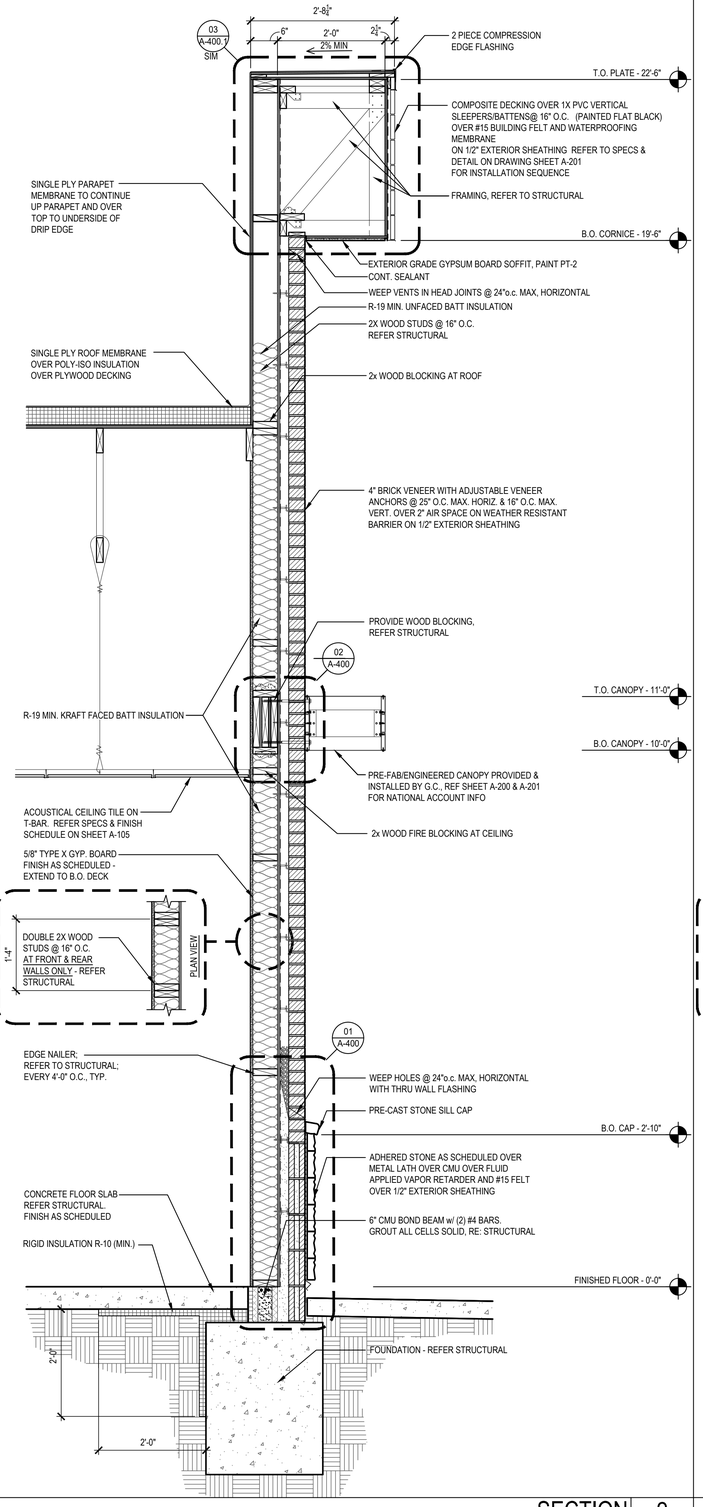
A-201

EXTERIOR ELEVATIONS



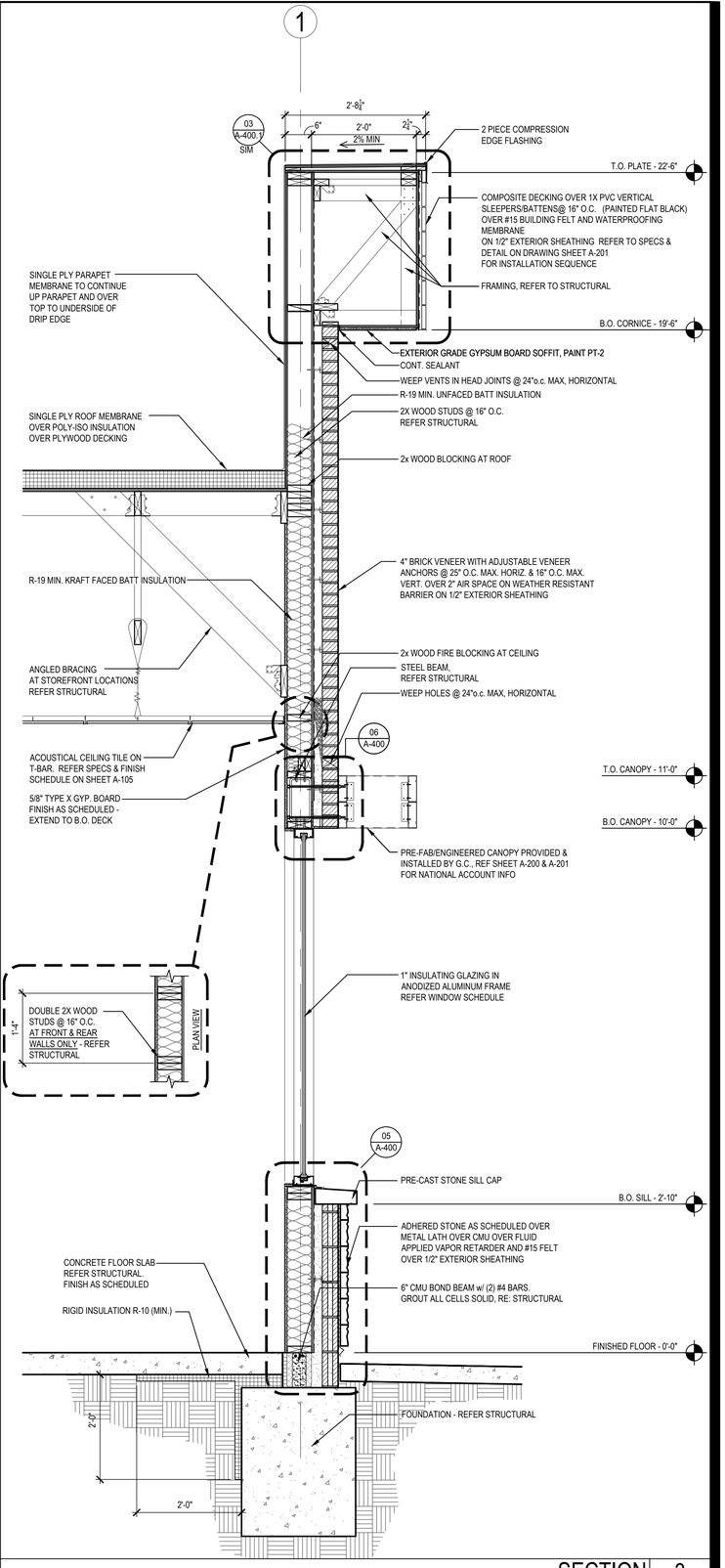
SECTION 1

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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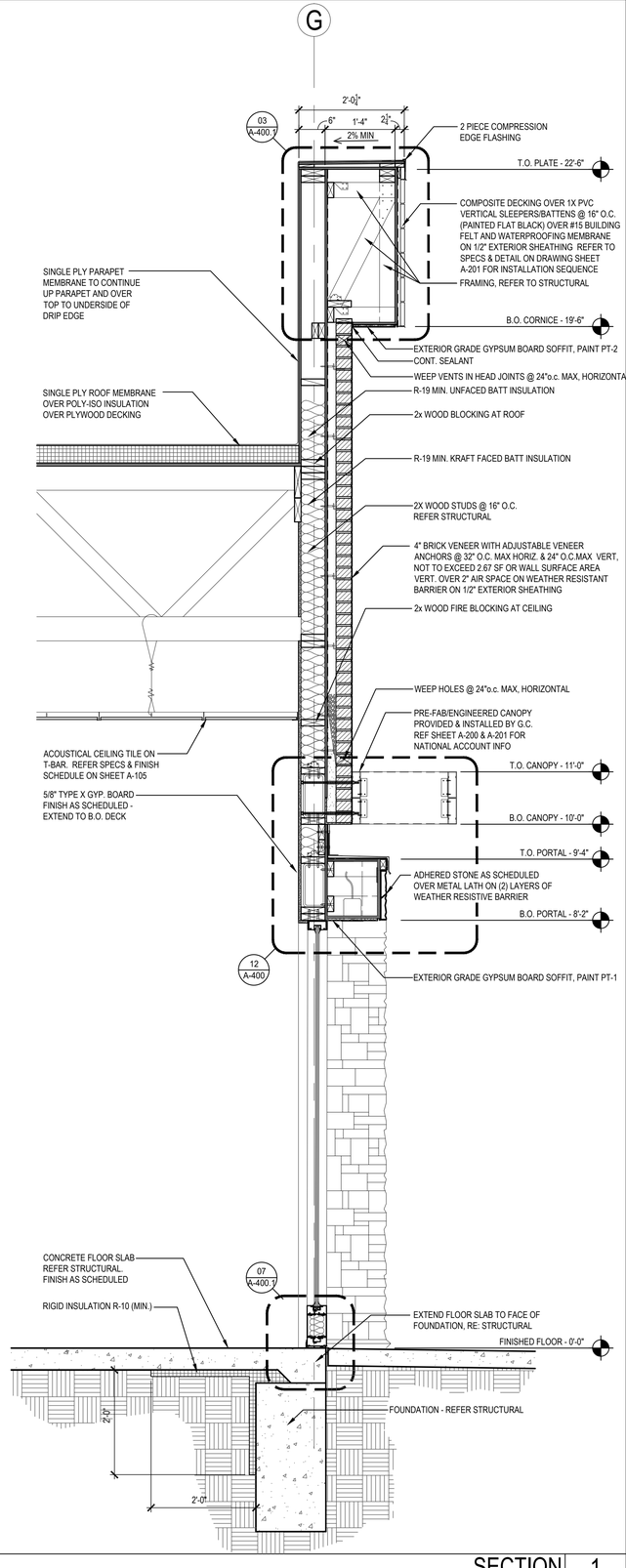
PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

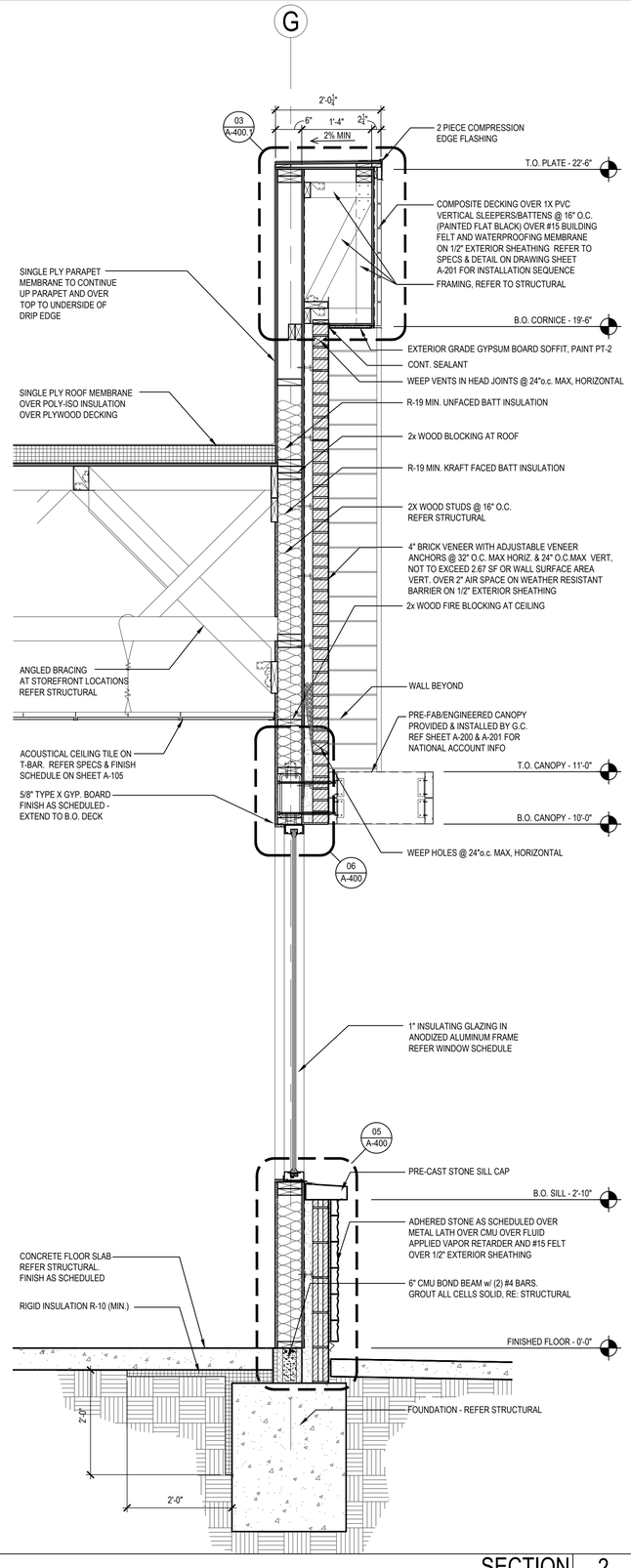
A-301

WALL SECTIONS

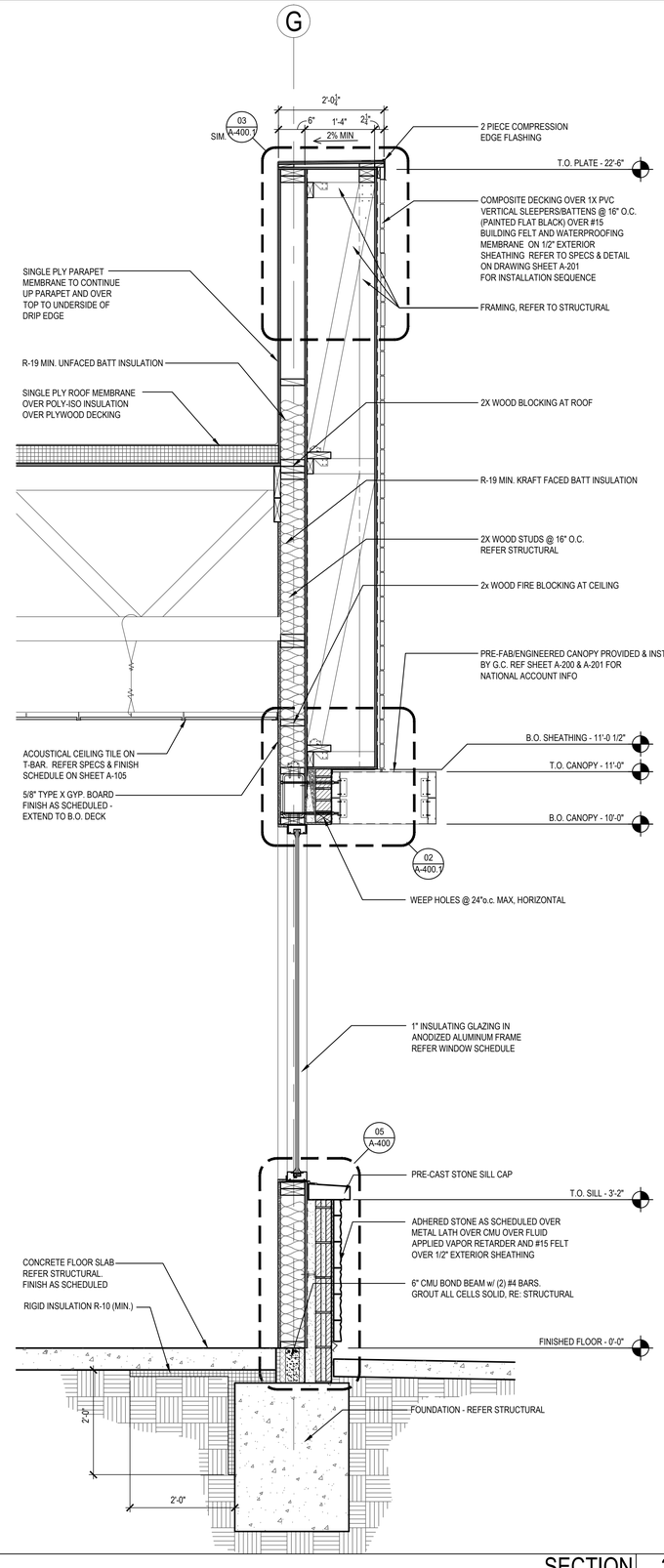
TRUE WARM & WELCOME 2300 R4



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

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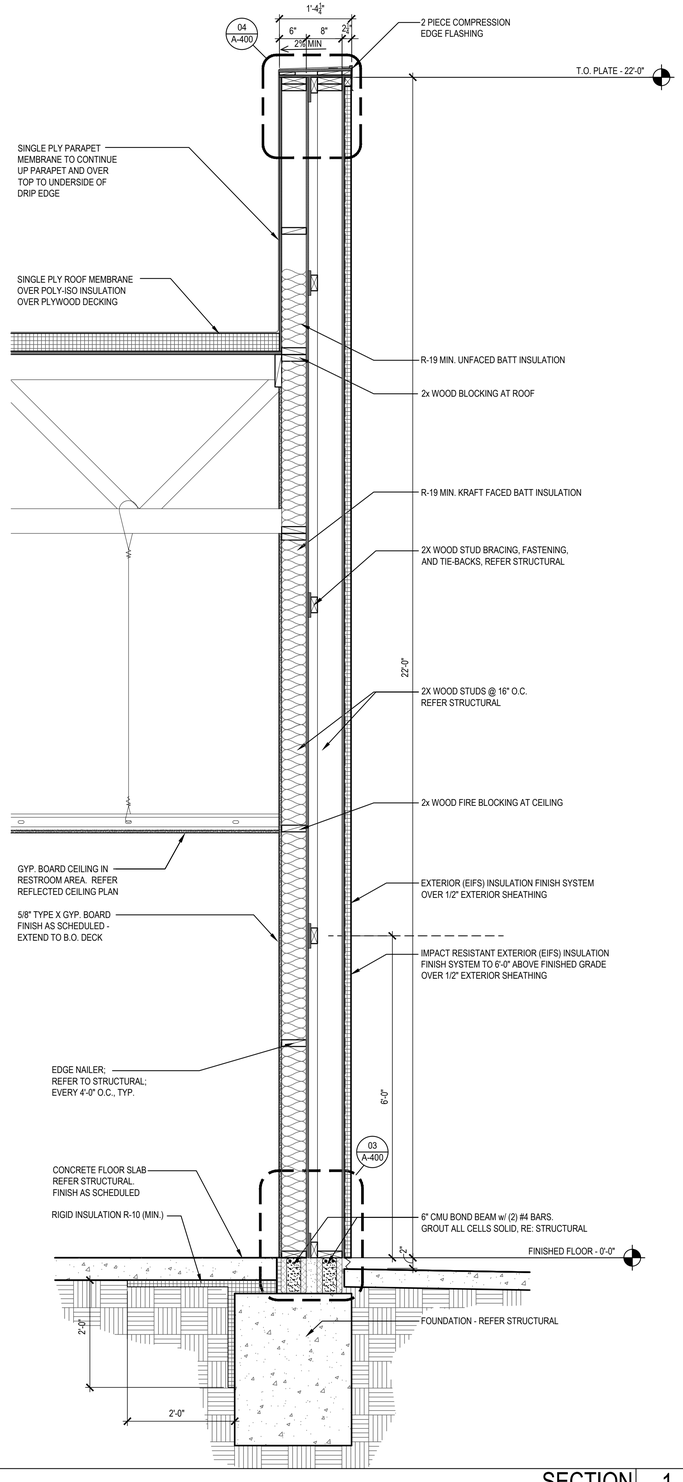
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

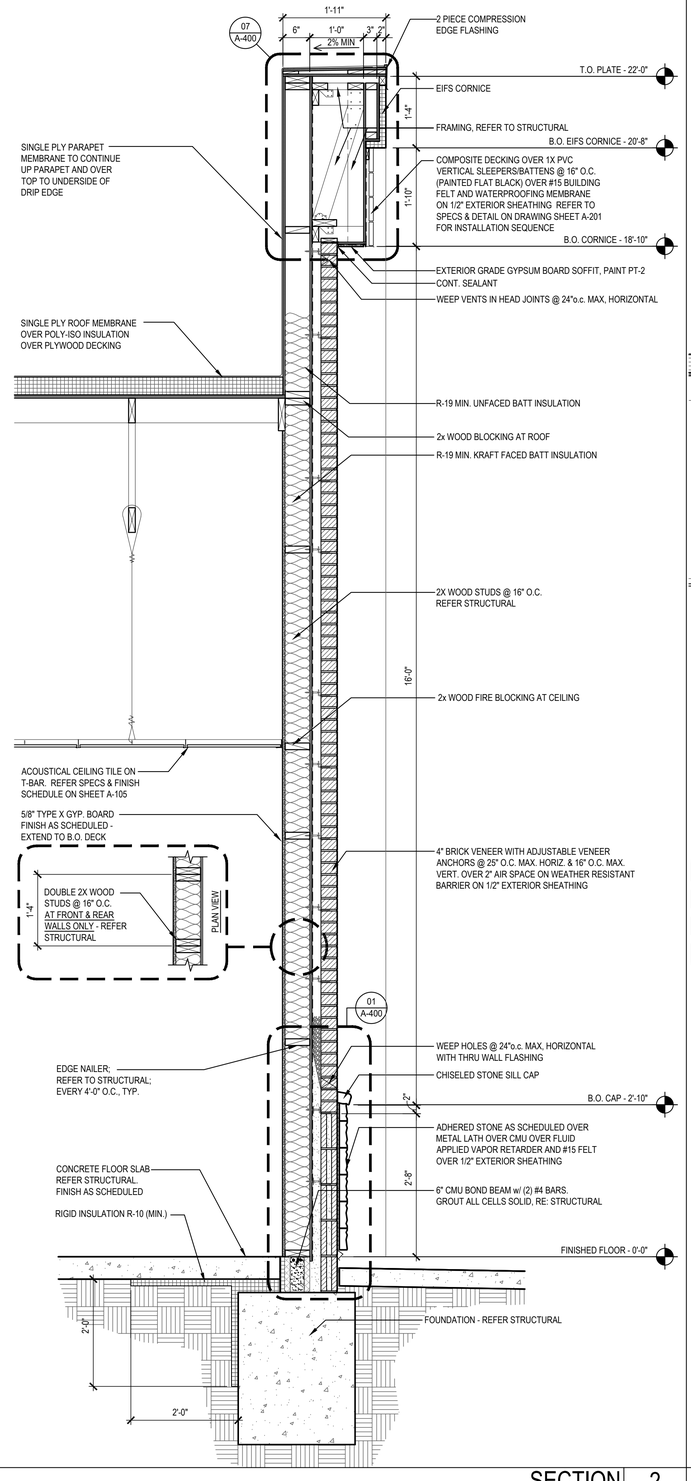
A-302

WALL SECTIONS

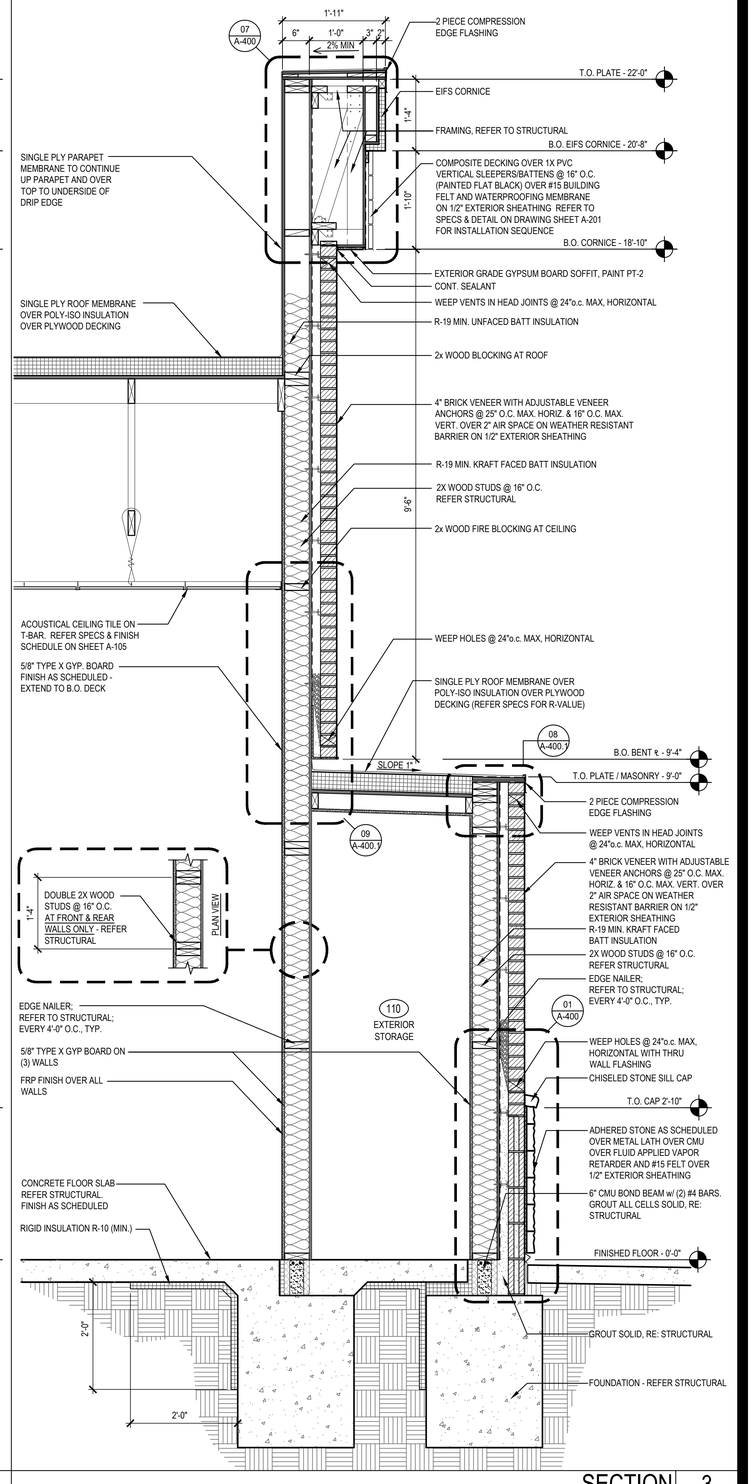
TRUE WARM & WELCOME 2300 R4



SECTION 1
Scale= 3/4" = 1'-0" A-303



SECTION 2
Scale= 3/4" = 1'-0" A-303



SECTION 3
Scale= 3/4" = 1'-0" A-303

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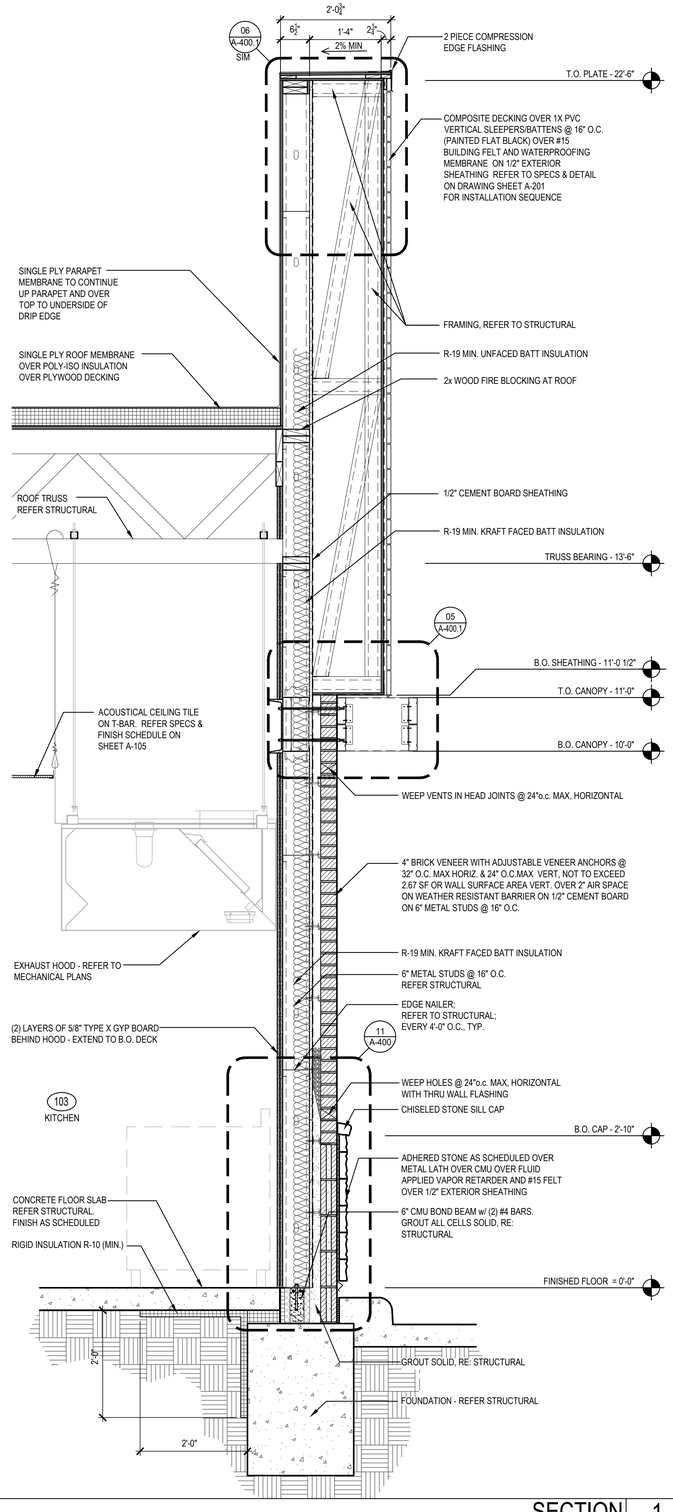
A-303

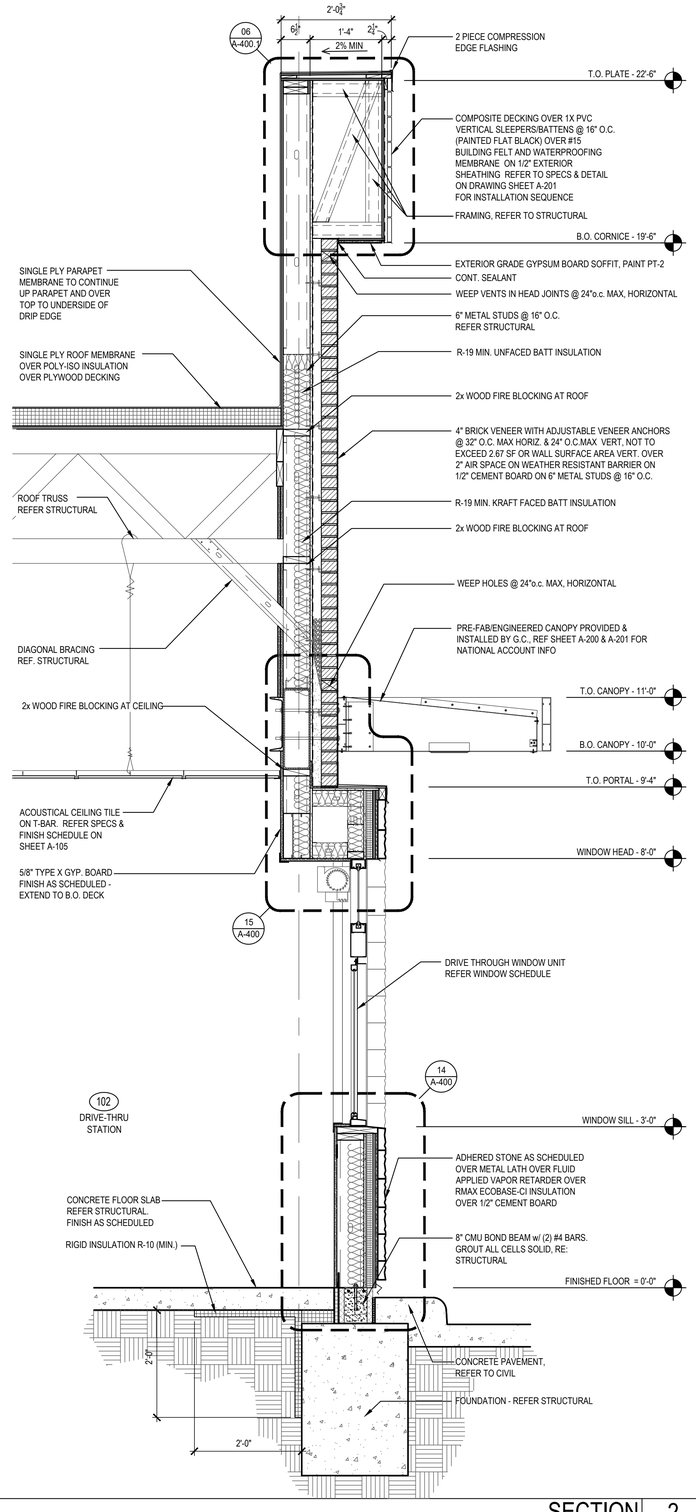
WALL SECTIONS



SECTION 1

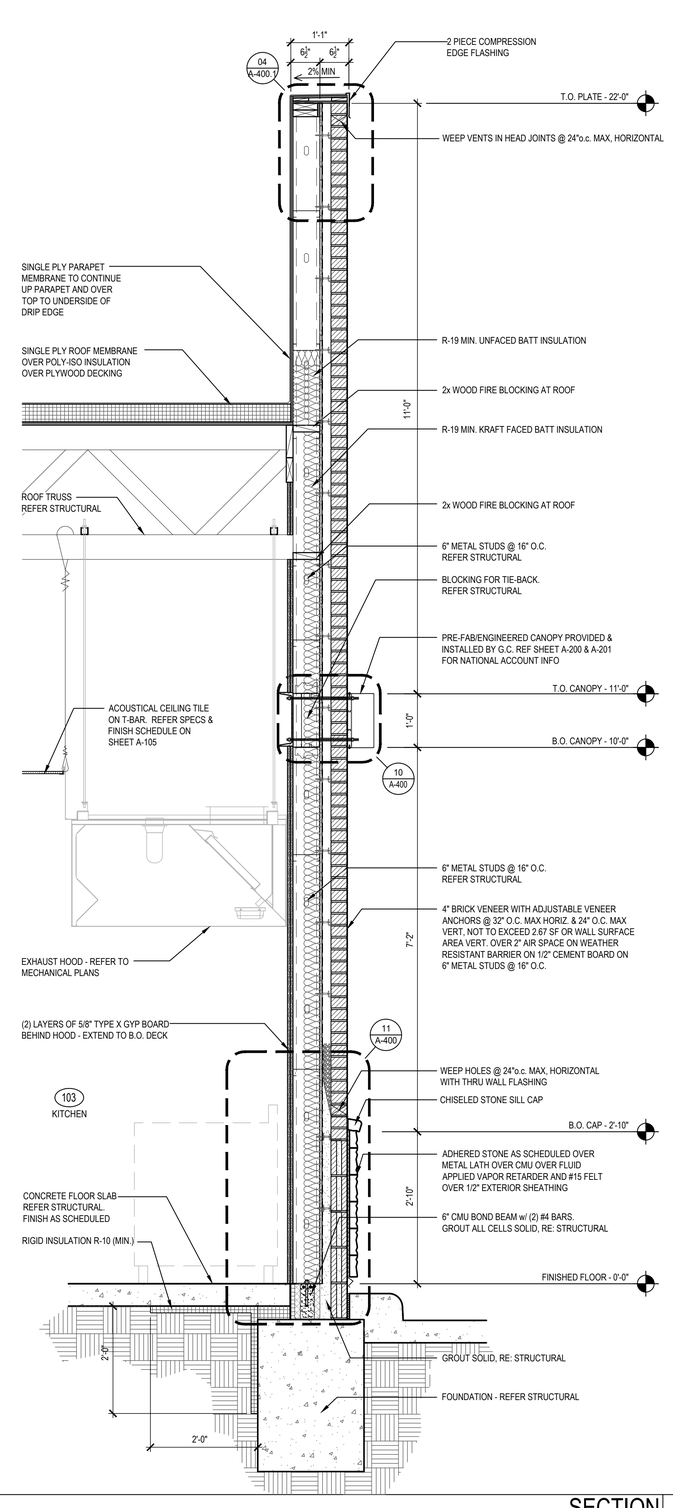
Scale= 3/4" = 1'-0" A-304

A



SECTION 2

Scale= 3/4" = 1'-0" A-304



SECTION 3

Scale= 3/4" = 1'-0" A-304

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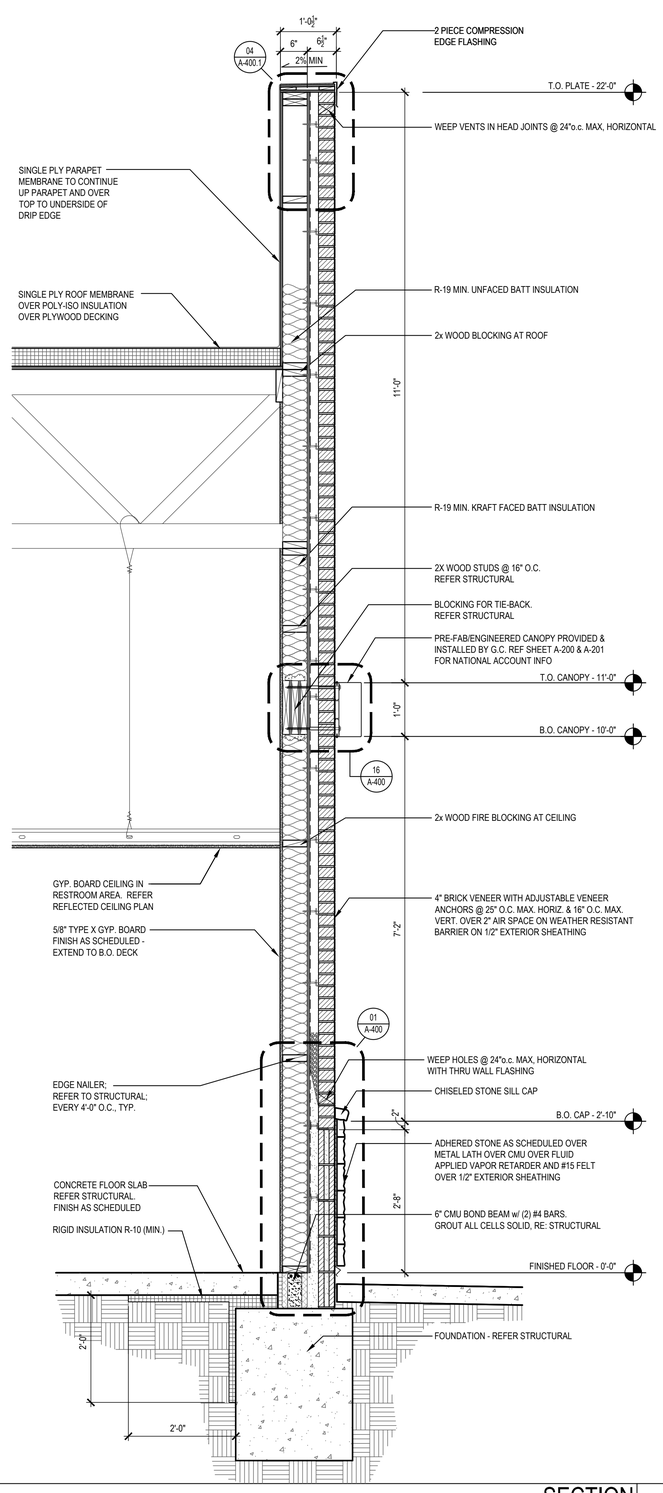
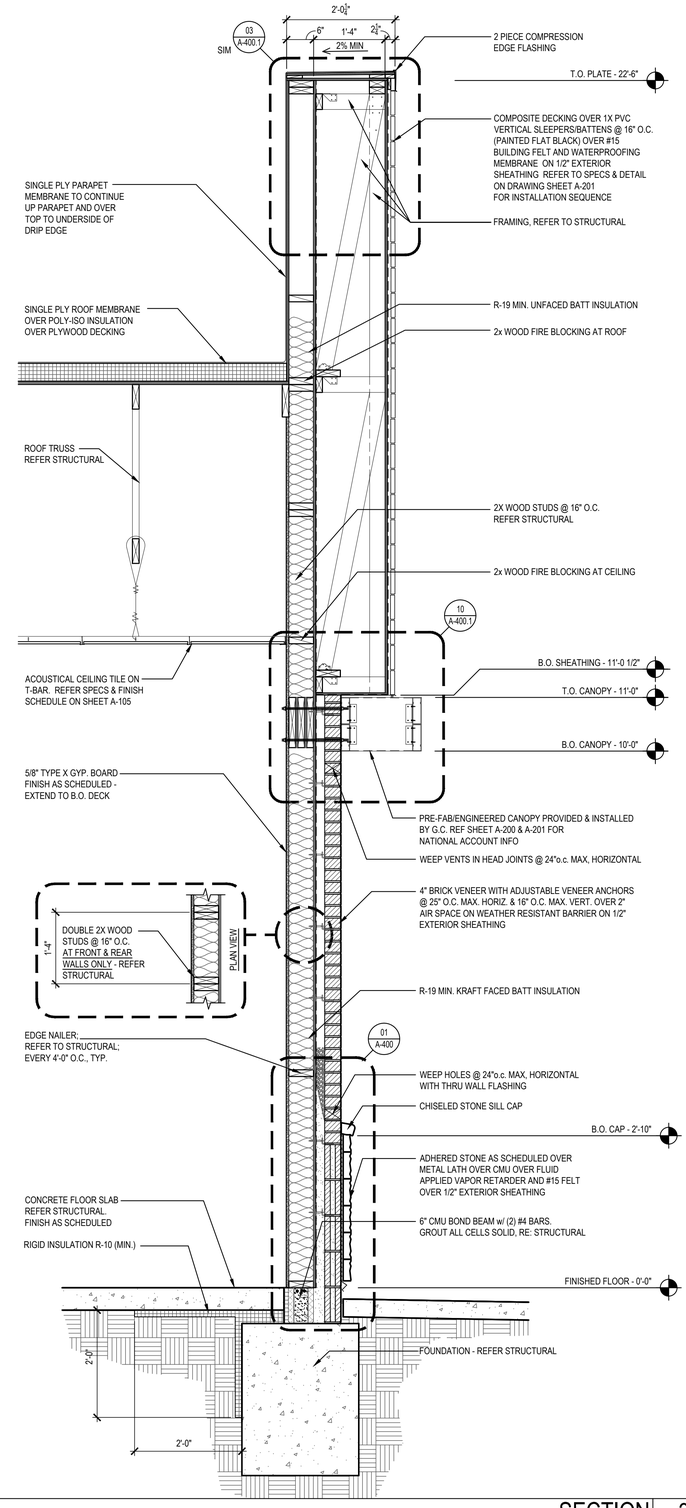
A-304

WALL SECTIONS

TRUE WARM & WELCOME 2300 R4



NOT USED 1
Scale= 3/4" = 1'-0" A-305



SECTION 3
Scale= 3/4" = 1'-0" A-305

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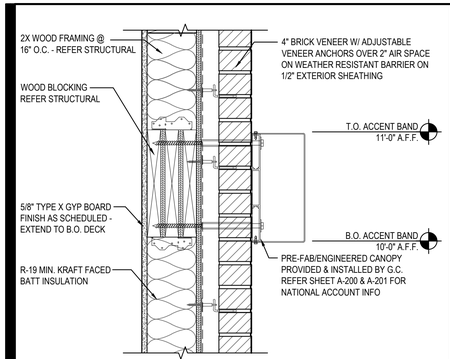
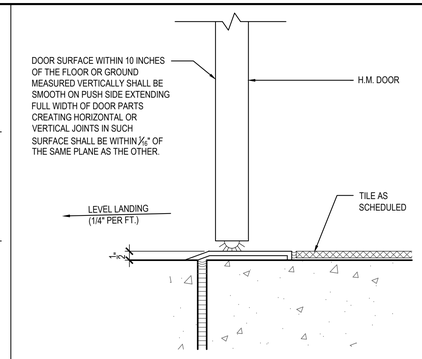
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-305
SECTIONS/DETAILS



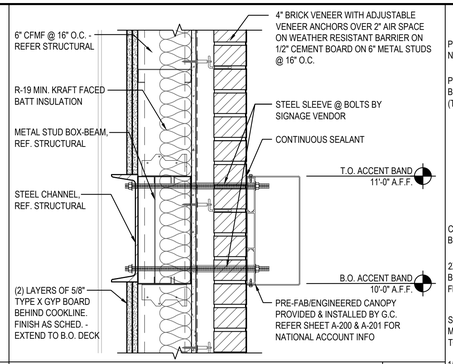
EIFS ACCENT BAND DETAIL 16

Scale= 1 1/2" = 1'-0" A-400



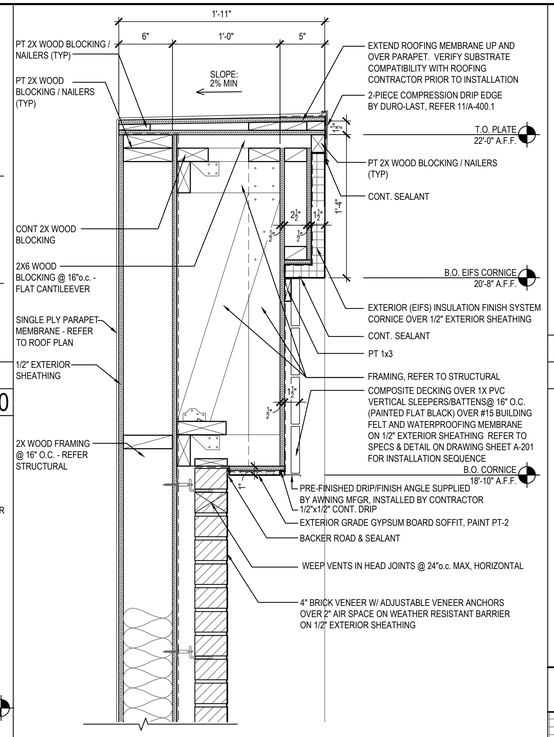
DOOR SILL DETAIL 13

Scale= 3" = 1'-0" A-400



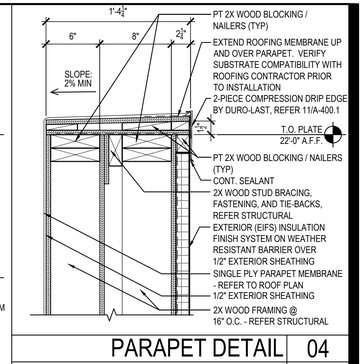
EIFS ACCENT BAND DETAIL 10

Scale= 1 1/2" = 1'-0" A-400



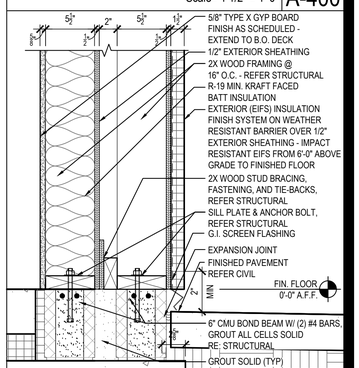
PARAPET/CORNICE DETAIL 07

Scale= 1 1/2" = 1'-0" A-400



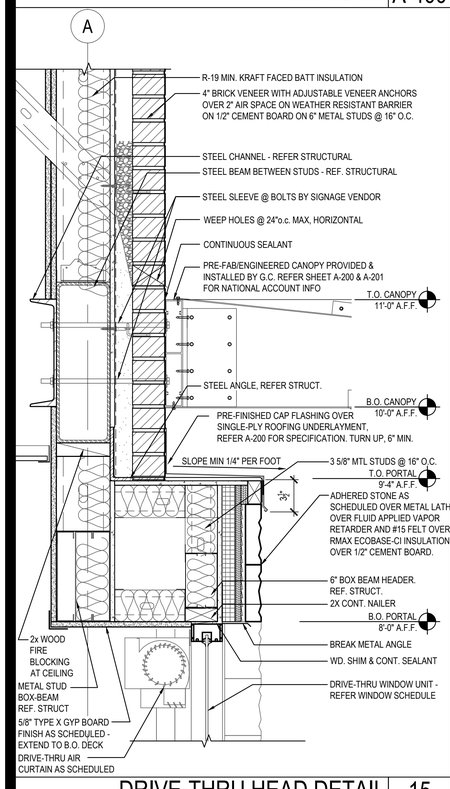
PARAPET DETAIL 04

Scale= 1 1/2" = 1'-0" A-400



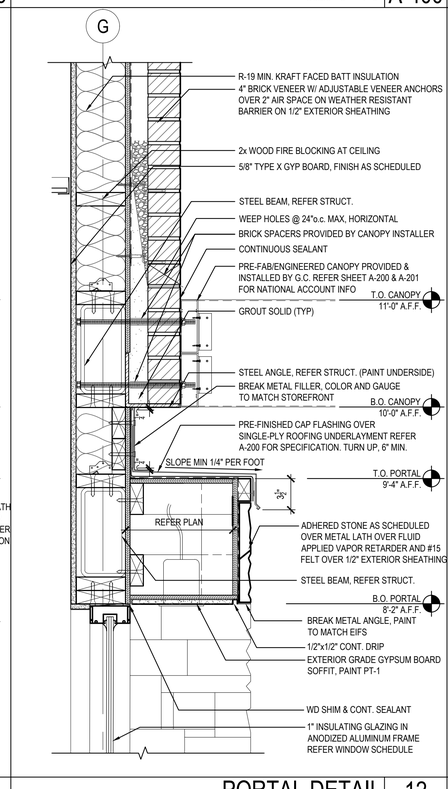
SILL DETAIL 03

Scale= 1 1/2" = 1'-0" A-400



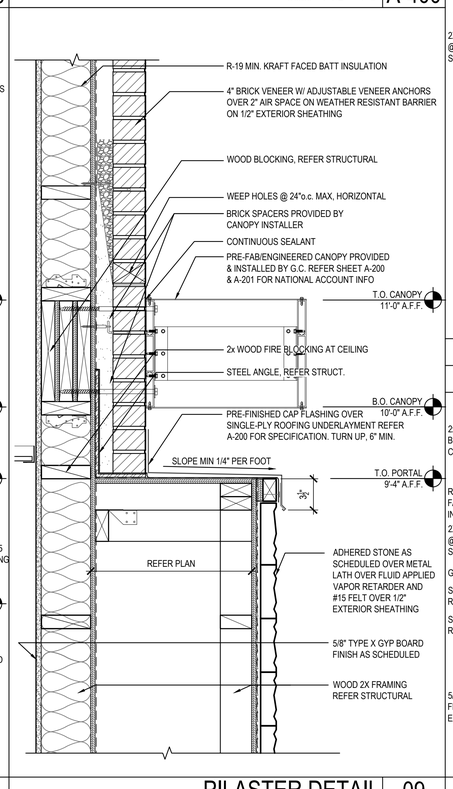
DRIVE-THRU HEAD DETAIL 15

Scale= 1 1/2" = 1'-0" A-400



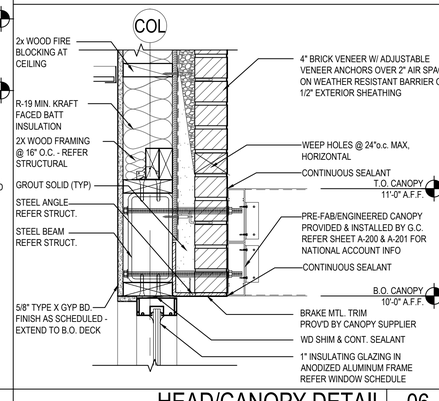
PORTAL DETAIL 12

Scale= 1 1/2" = 1'-0" A-400



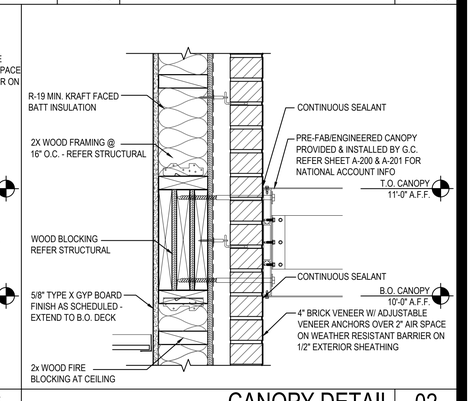
PILASTER DETAIL 09

Scale= 1 1/2" = 1'-0" A-400



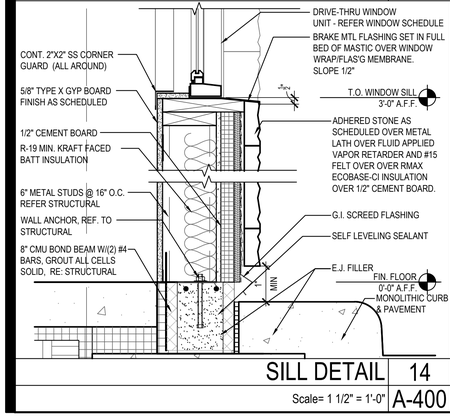
HEAD/CANOPY DETAIL 06

Scale= 1 1/2" = 1'-0" A-400



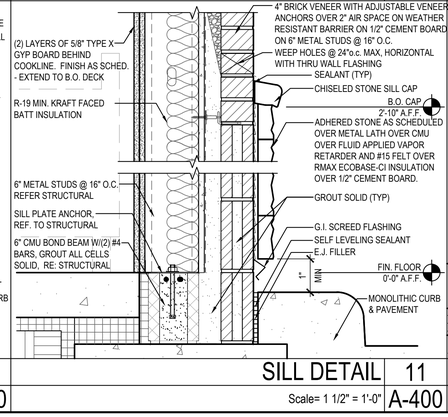
CANOPY DETAIL 02

Scale= 1 1/2" = 1'-0" A-400



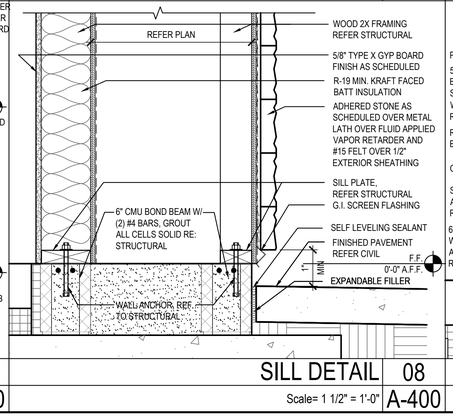
SILL DETAIL 14

Scale= 1 1/2" = 1'-0" A-400



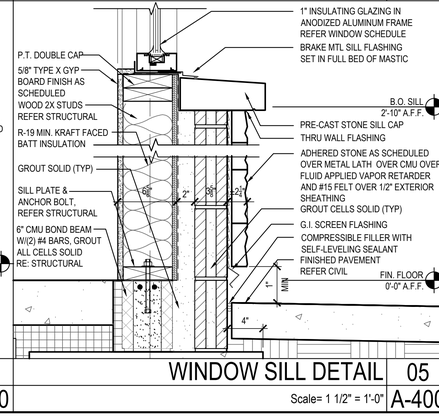
SILL DETAIL 11

Scale= 1 1/2" = 1'-0" A-400



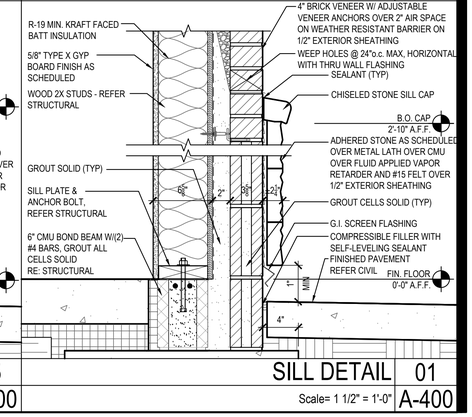
SILL DETAIL 08

Scale= 1 1/2" = 1'-0" A-400



WINDOW SILL DETAIL 05

Scale= 1 1/2" = 1'-0" A-400



SILL DETAIL 01

Scale= 1 1/2" = 1'-0" A-400

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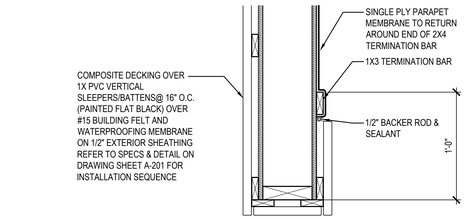
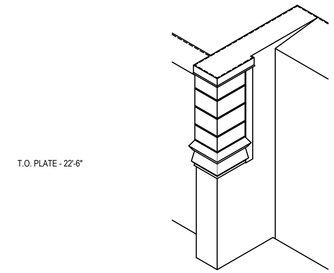
BROWNSBURG, IN 46112

A-400

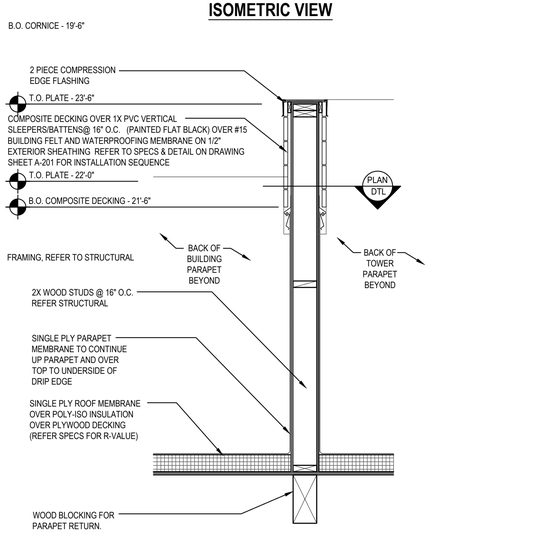
ARCHITECTURAL DETAILS



PLAN DETAIL



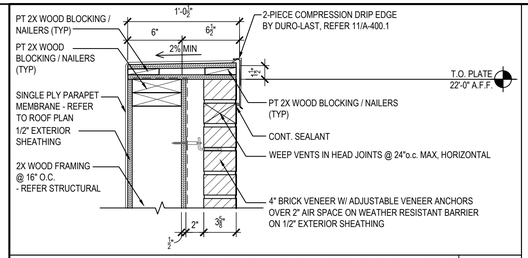
ISOMETRIC VIEW



SECTION DETAIL

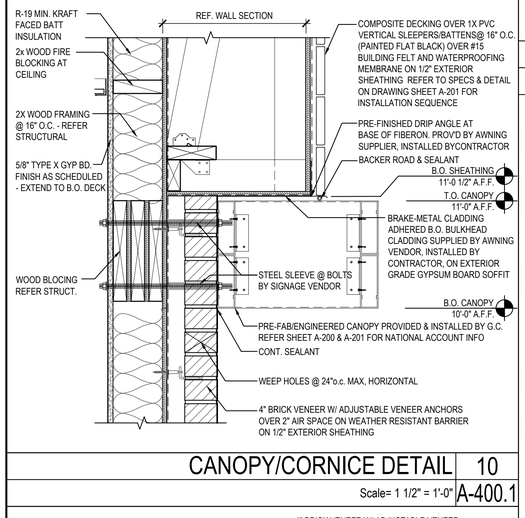
SECTION | 12

Scale= 3/4" = 1'-0" | A-400.1



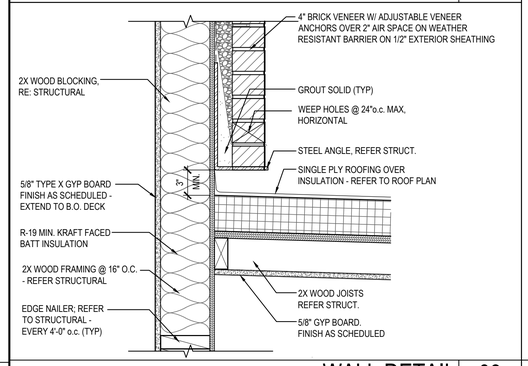
PARAPET/CORNICE DETAIL | 11

Scale= 1 1/2" = 1'-0" | A-400.1



CANOPY/CORNICE DETAIL | 10

Scale= 1 1/2" = 1'-0" | A-400.1



WALL DETAIL | 09

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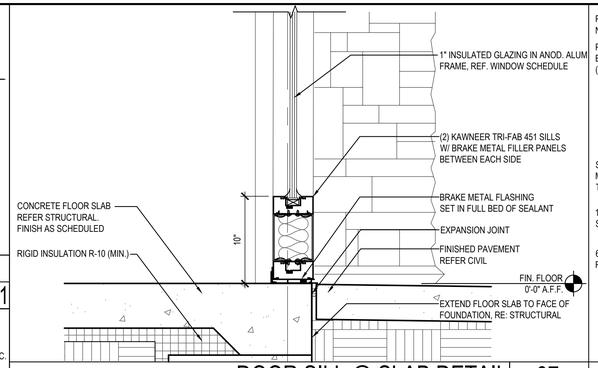
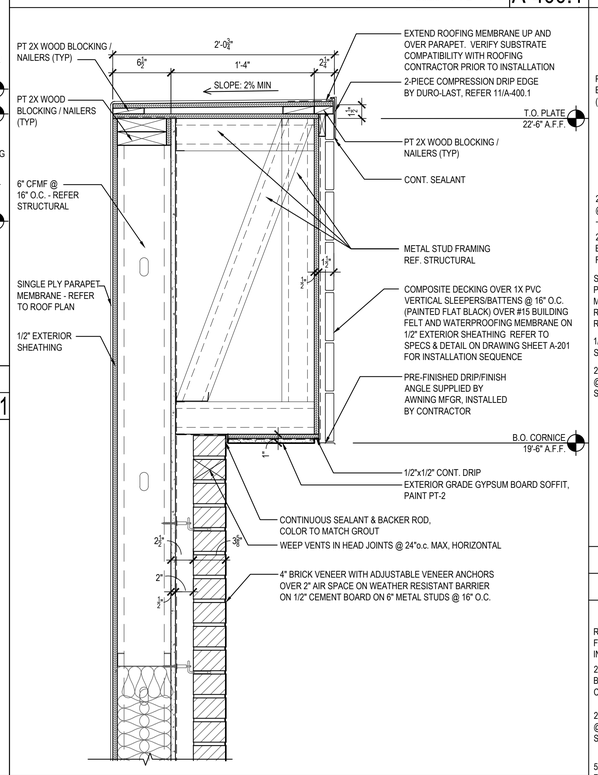


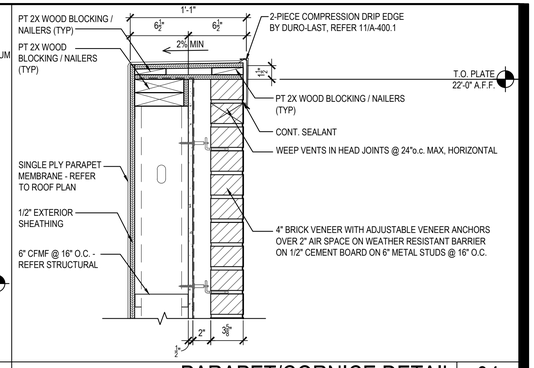
DOOR SILL @ SLAB DETAIL | 07

Scale= 1 1/2" = 1'-0" | A-400.1



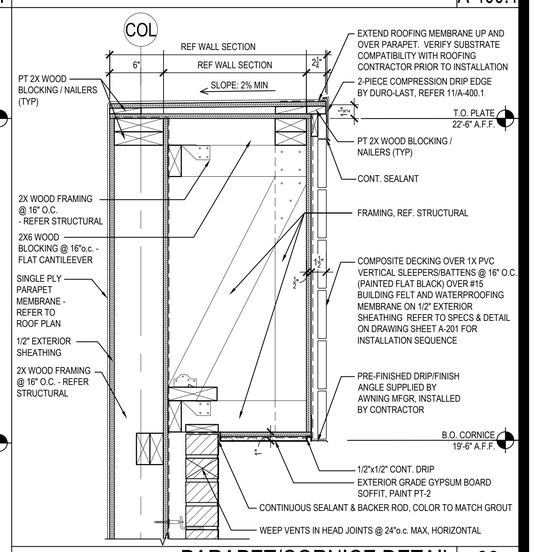
PARAPET/CORNICE DETAIL | 06

Scale= 1 1/2" = 1'-0" | A-400.1



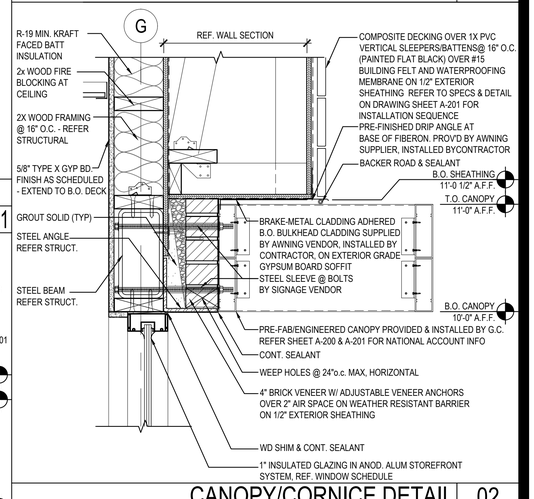
PARAPET/CORNICE DETAIL | 04

Scale= 1 1/2" = 1'-0" | A-400.1



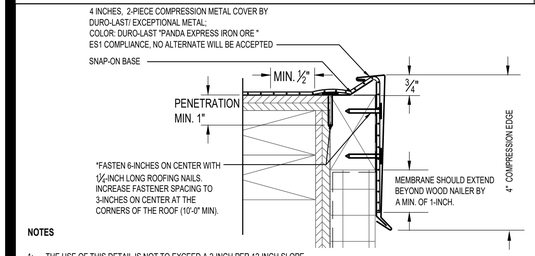
PARAPET/CORNICE DETAIL | 03

Scale= 1 1/2" = 1'-0" | A-400.1



CANOPY/CORNICE DETAIL | 02

Scale= 1 1/2" = 1'-0" | A-400.1

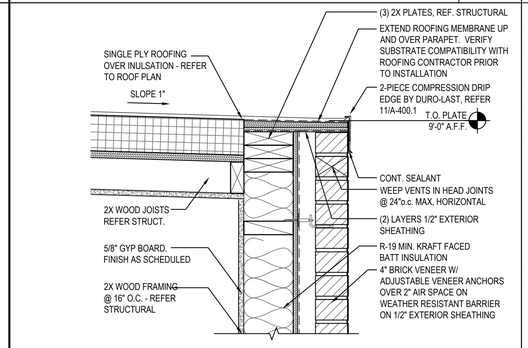


NOTES

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 ¾-INCH EXPANSION GAP BETWEEN 10-FOOT LENGTHS OF SNAP-ON BASE. OVERLAP THE SNAP-ON COVERS BY 2-INCHES BETWEEN 10-FOOT LENGTHS.

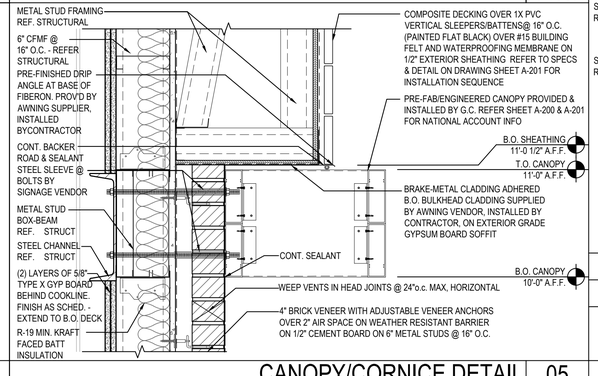
4-INCH HIGH, 2-PIECE COMPRESSION EDGE | 11

NTS | A-400.1



PARAPET DETAIL | 08

Scale= 1 1/2" = 1'-0" | A-400.1



CANOPY/CORNICE DETAIL | 05

Scale= 1 1/2" = 1'-0" | A-400.1

NOT USED | 01

Scale= 1 1/2" = 1'-0" | A-400.1

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REVISIONS:

ISSUE DATE:

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DRAWN BY: AF

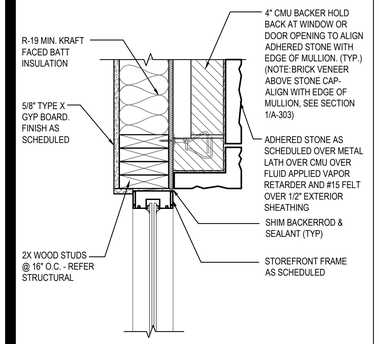
PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

AMY LYNN CONT
REGISTERED
No. AR12000032
STATE OF INDIANA
ARCHITECT
2/10/21

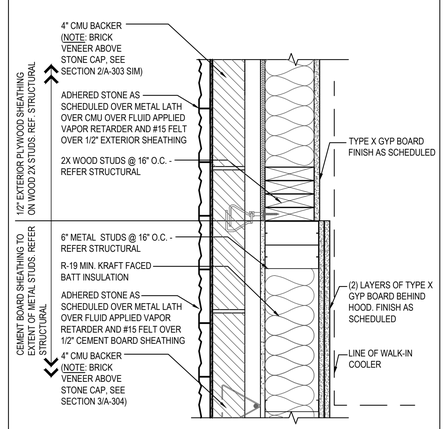
NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-400.1
ARCHITECTURAL DETAILS



PLAN SECTION/DETAIL 10
Scale= 1 1/2" = 1'-0" A-401



PLAN SECTION/DETAIL 09
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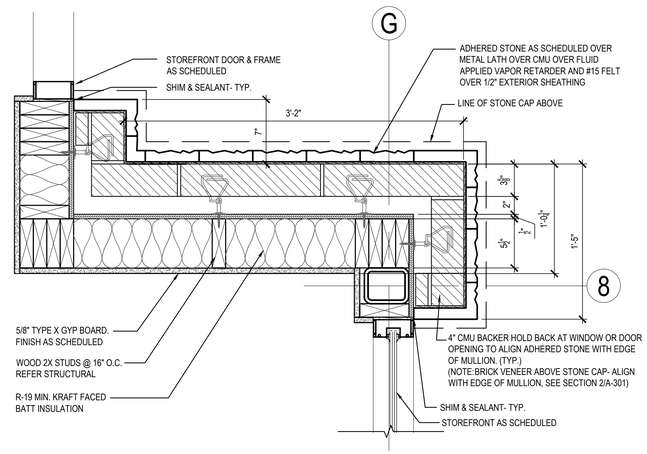

PLAN SECTION/DETAIL 03
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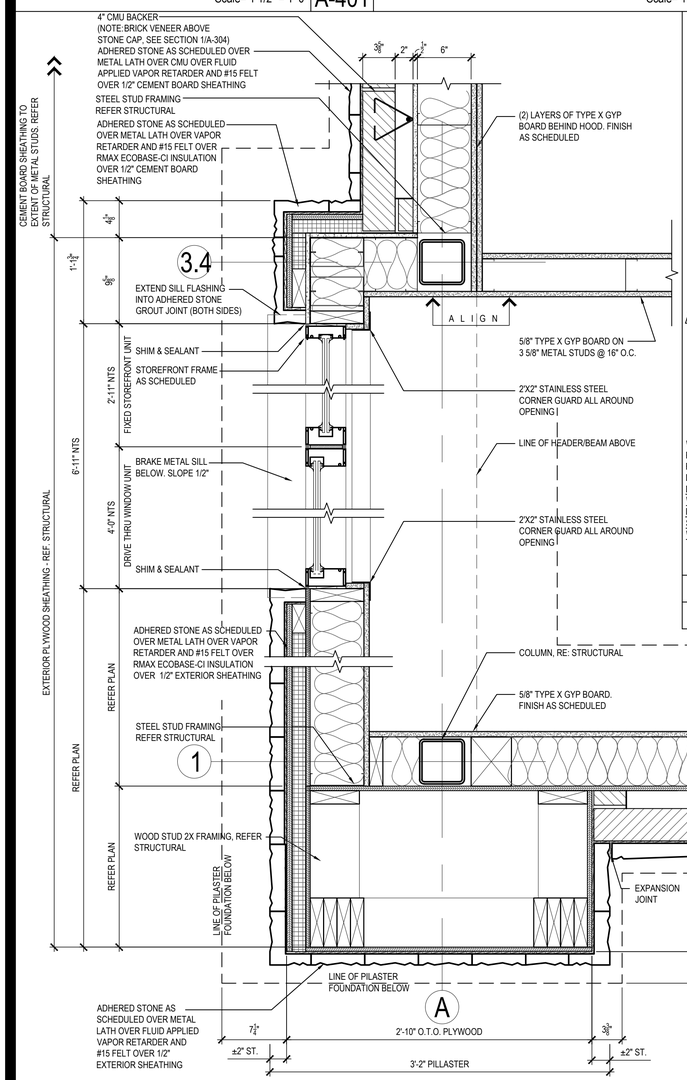

PLAN SECTION/DETAIL 08
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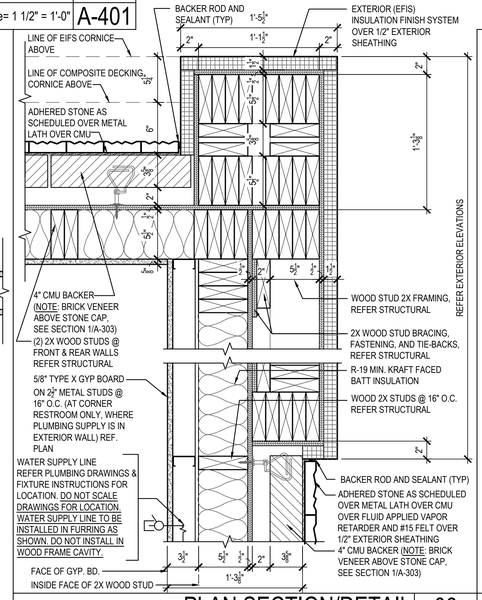

PLAN SECTION/DETAIL 06
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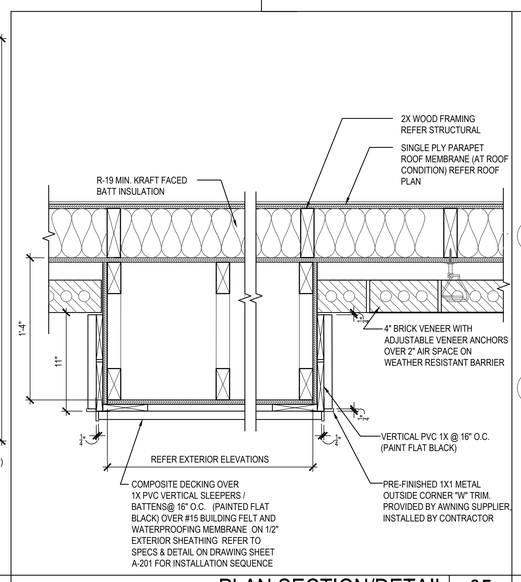

PLAN SECTION/DETAIL 05
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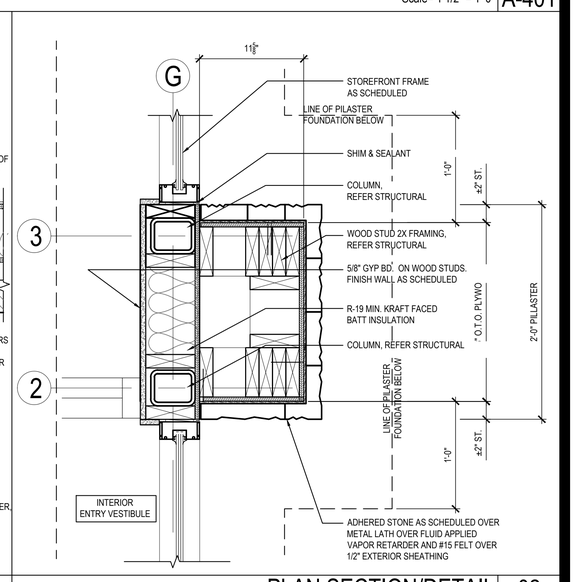

PLAN SECTION/DETAIL 02
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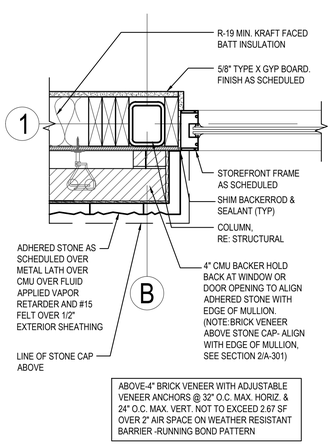

PLAN SECTION/DETAIL 07
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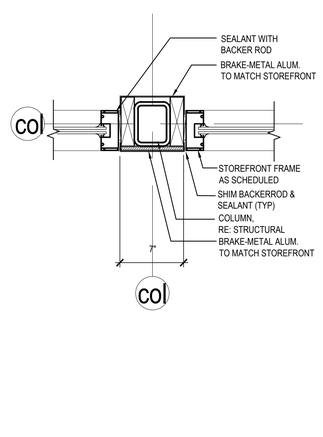

PLAN SECTION/DETAIL 04
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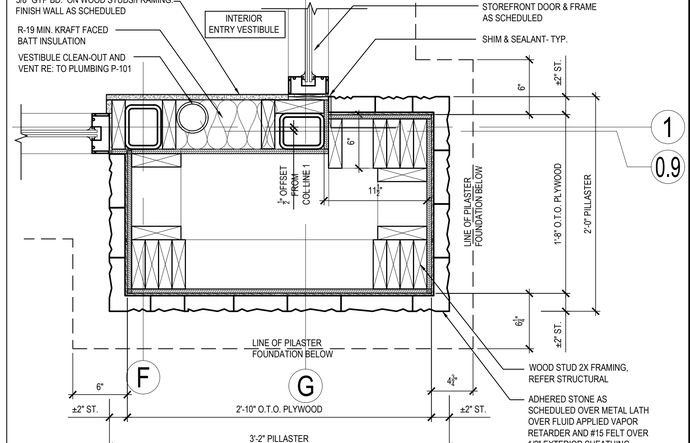

PLAN SECTION/DETAIL 01
Scale= 1 1/2" = 1'-0" A-401

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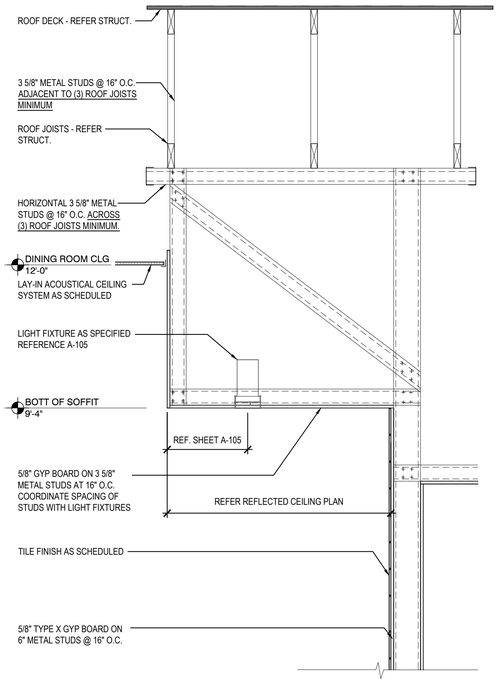
AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

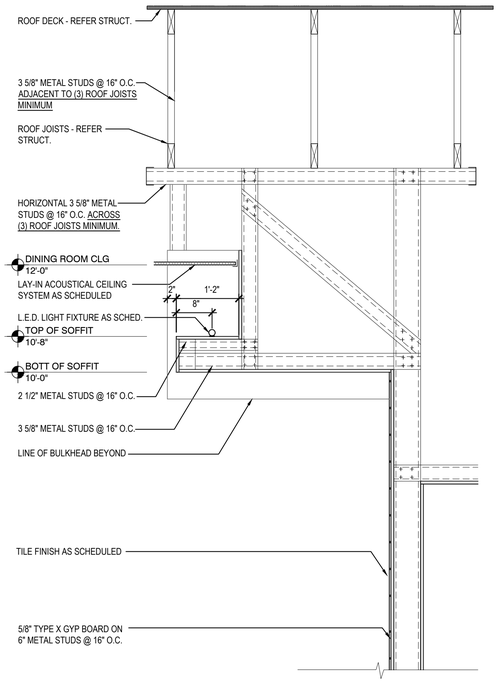
A-401
ARCHITECTURAL DETAILS

TRUE WARM & WELCOME 2300 R4



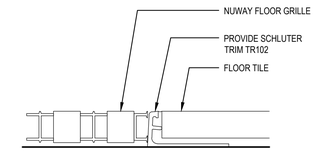
BEVERAGE STATION SOFFIT DETAILS 10

Scale= 3/4" = 1'-0" A-402



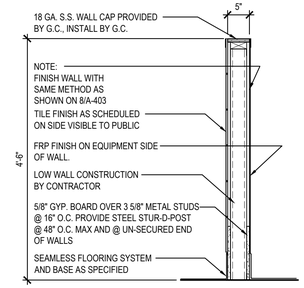
BEVERAGE STATION SOFFIT DETAILS 9

Scale= 3/4" = 1'-0" A-402



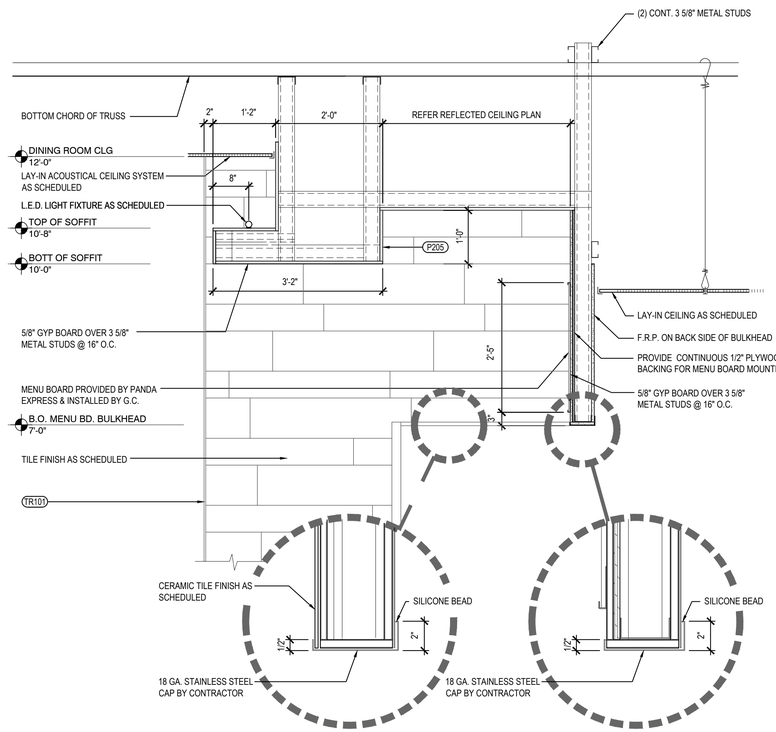
VESTIBULE FLOOR GRILLE 3

Scale= NTS A-402



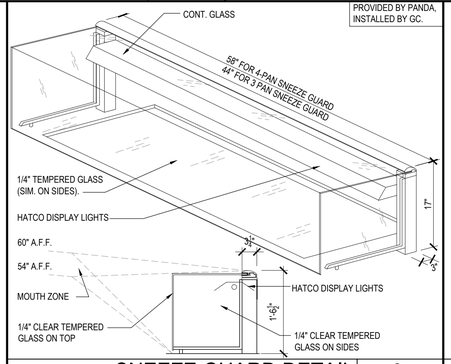
LOW WALL DETAIL 2

Scale= 3/4" = 1'-0" A-402



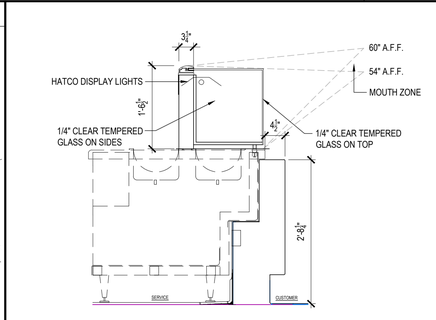
SERVICE COUNTER SOFFIT DETAILS 8

Scale= 3/4" = 1'-0" A-402



SNEEZE GUARD DETAIL 6

Scale= NTS A-402



SNEEZE GUARD DETAIL 5

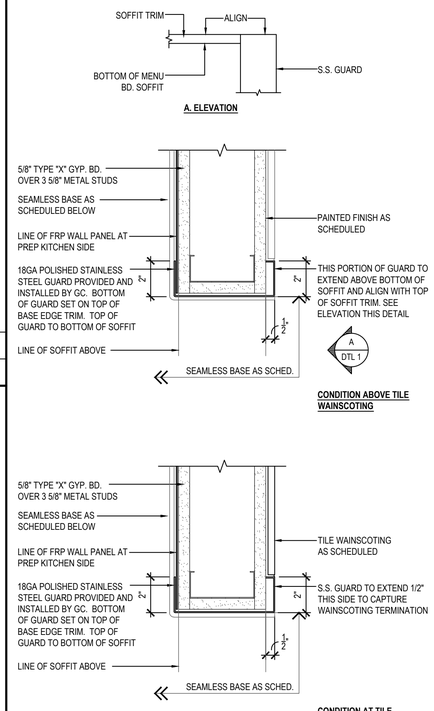
Scale= NTS A-402

NOT USED 7

Scale= 1 1/2" = 1'-0" A-402

NOT USED 4

Scale= 1 1/2" = 1'-0" A-402



CORNER GUARD DETAIL 1

Scale= 3" = 1'-0" A-402

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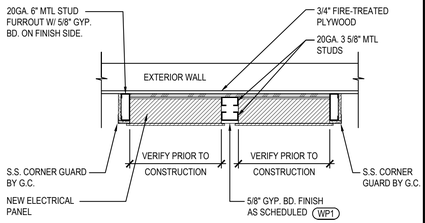
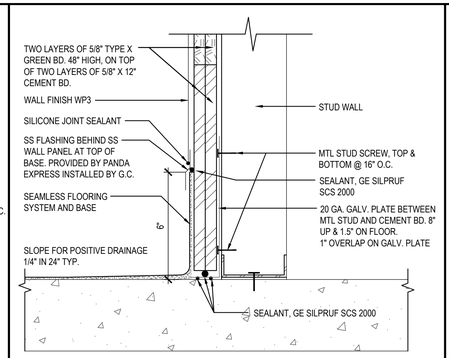
BROWNSBURG, IN 46112

A-402

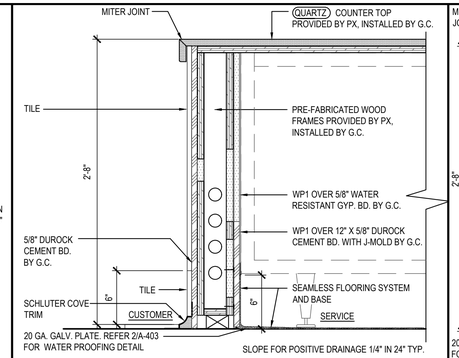
ARCHITECTURAL DETAILS



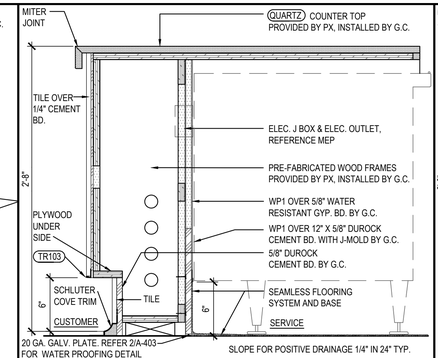
ELECTRIC PANELS DETAIL | 20
Scale= 3/4" = 1'-0" | A-403



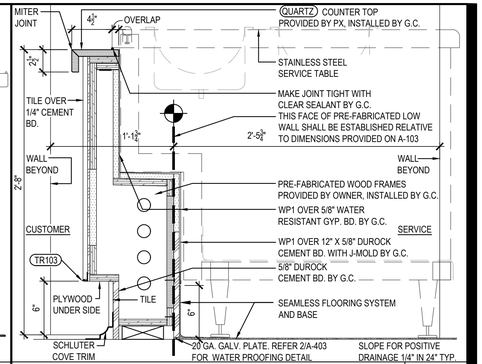
WALL BASE @ COOKLINE | 16
Scale= NTS | A-403



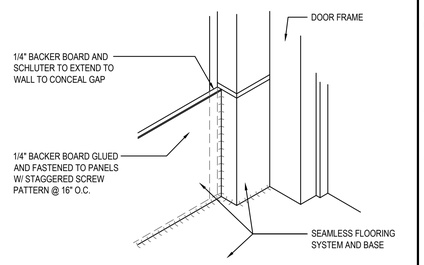
CASHIER COUNTER PLAN & DETAIL | 12
Scale= 1 1/2" = 1'-0" | A-403



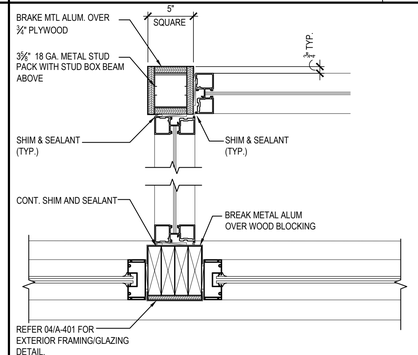
SERVICE COUNTER DETAIL | 8
Scale= 1 1/2" = 1'-0" | A-403



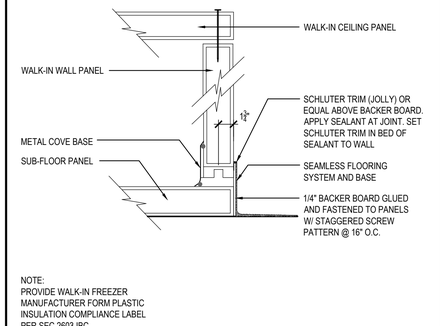
SERVICE COUNTER DETAIL | 4
Scale= 1 1/2" = 1'-0" | A-403



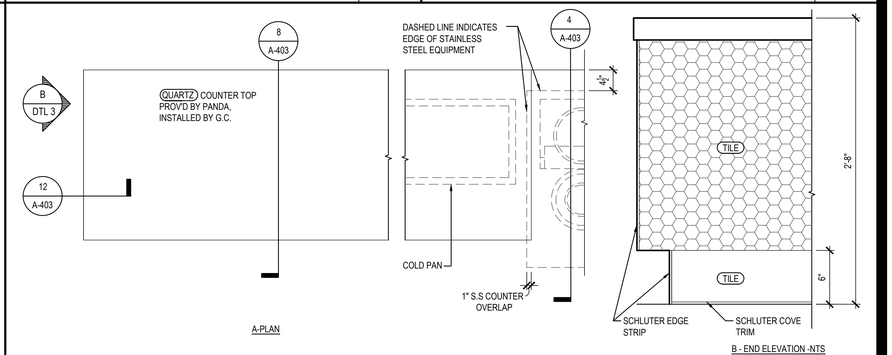
WALK-IN FREEZER GAP DETAIL | 19
Scale= 3" = 1'-0" | A-403



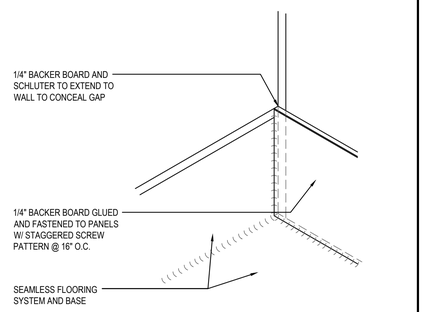
PLAN DETAIL @ VESTIBULE | 15
Scale= 1 1/2" = 1'-0" | A-403



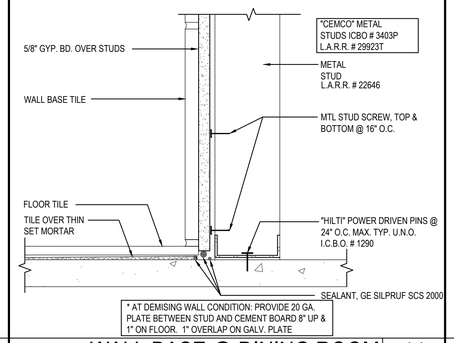
TYP. WALK-IN FREEZER SECTION | 11
Scale= 1 1/2" = 1'-0" | A-403



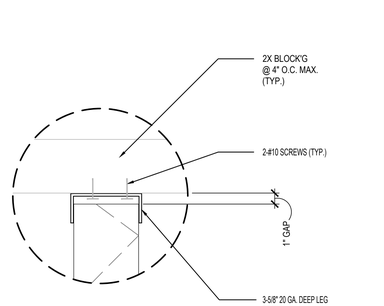
SERVICE COUNTER PLAN AND ELEVATION | 3
Scale= 3/4" = 1'-0" | A-403



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
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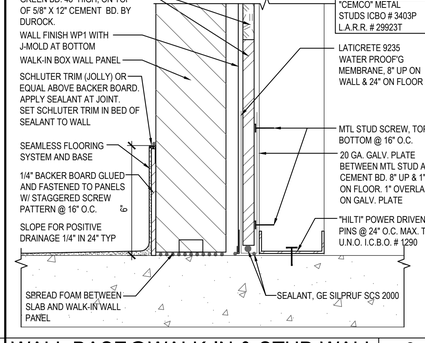
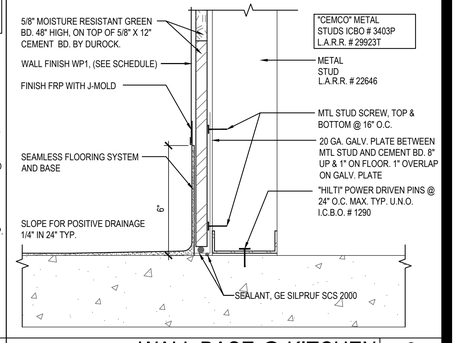
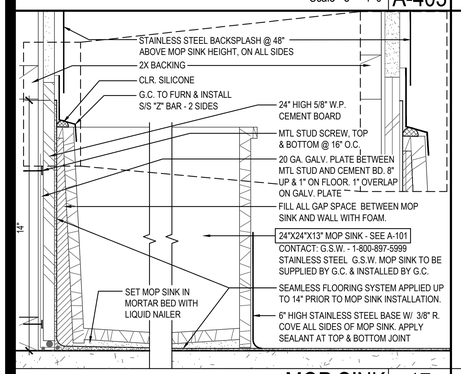


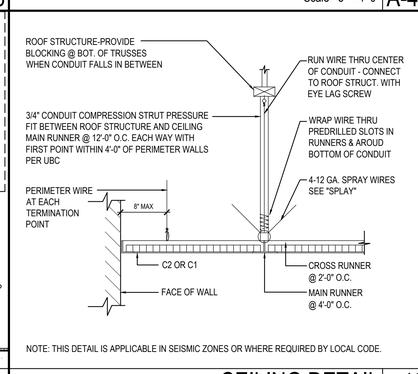
WALL BASE@WALK-IN & STUD WALL | 6
Scale= 3" = 1'-0" | A-403



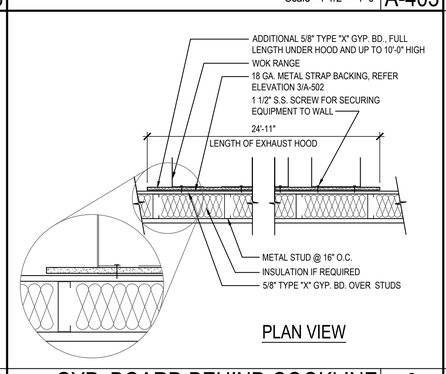
WALL BASE @ KITCHEN | 2
Scale= 3" = 1'-0" | A-403



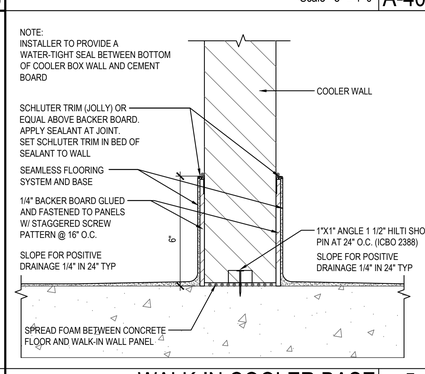
MOP SINK | 17
Scale= 3" = 1'-0" | A-403



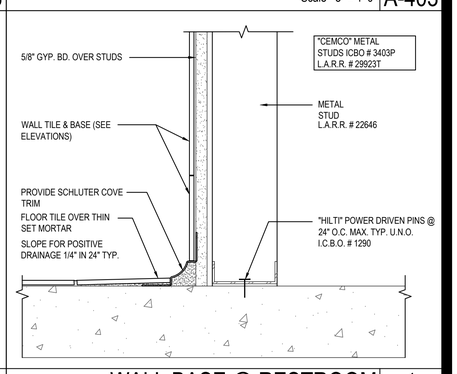
CEILING DETAIL | 13
Scale= 3/4" = 1'-0" | A-403



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 EXPRESS, INC.
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91770
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REVISIONS:

ISSUE DATE:

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DRAWN BY: AF

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR ARCHITECTS. ENGINEERS. PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

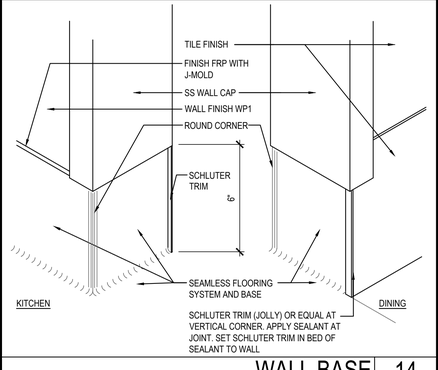
A-403
ARCHITECTURAL DETAILS

TRUE WARM & WELCOME 2300 R4

NOT USED 21

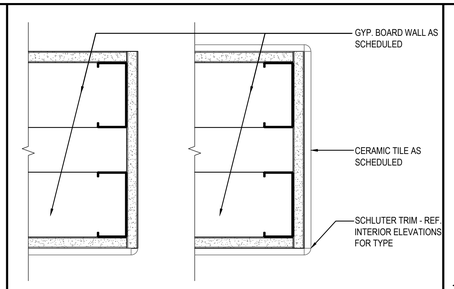
Scale= NTS A-404

WALL BASE 14



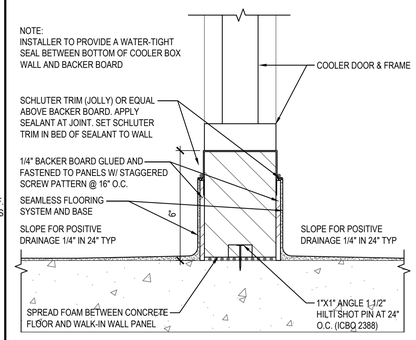
Scale= 3" = 1'-0" A-404

PLAN SECTION WALL DETAIL 11



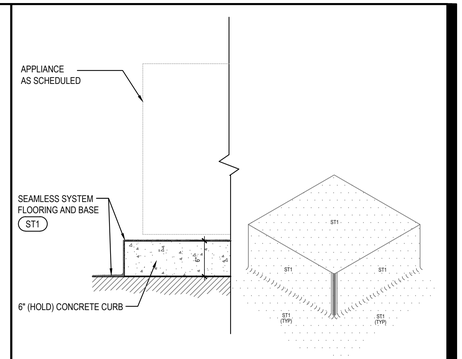
Scale= 3" = 1'-0" A-404

WALL BASE @ COOLER 7



Scale= 3" = 1'-0" A-404

6" CURB DETAIL 4



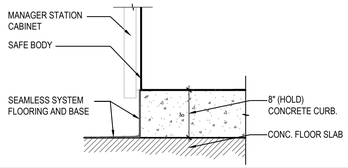
Scale= 1" = 1'-0" A-404

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)

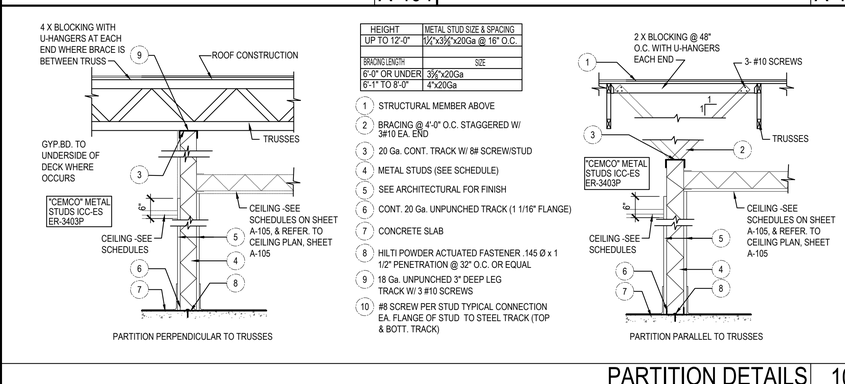
3) IF CABINET OPEN WITH NO WALLS:
8" H X 24" W X 46" L (CONCRETE CURB ONLY, NOT INCLUDE SEAMLESS BASE)
SEAMLESS SYSTEM ON ALL 3 SIDES OF THE CURB



MGR. STATION & SAFE CURB 20

Scale= 1" = 1'-0" A-404

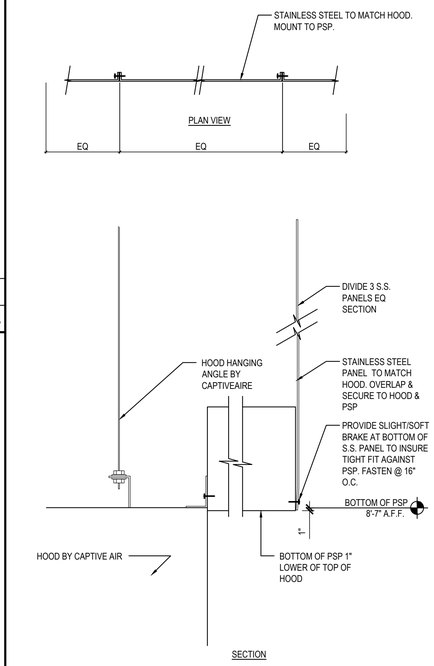
PARTITION DETAILS 10



HEIGHT	METAL STUD SIZE & SPACING
UP TO 12'-0"	3⅝"x3⅝"x20Ga @ 16" O.C.
BRACING LENGTH	SIZE
6'-0" OR UNDER	3⅝"x20Ga
6'-1" TO 8'-0"	4"x20Ga

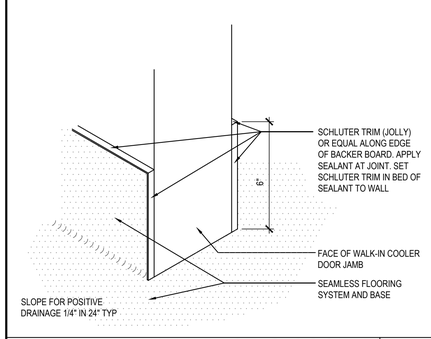
1. STRUCTURAL MEMBER ABOVE
2. BRACING @ 4'-0" O.C. STAGGERED W/ 3#10 EA. END
3. 20 Ga. CONT. TRACK W/ 8# SCREW/STUD
4. METAL STUDS (SEE SCHEDULE)
5. SEE ARCHITECTURAL FOR FINISH
6. CONT. 20 Ga. UNPUNCHED TRACK (1 1/16" FLANGE)
7. CONCRETE SLAB
8. HILTI POWDER ACTUATED FASTENER .145 Ø x 1 1/2" PENETRATION @ 32" O.C. 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)

Scale= 3/4" = 1'-0" A-404



S.S. DETAIL @ EXHAUST HOOD 6

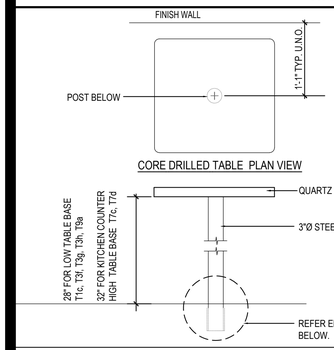
Scale= 1/2" = 1'-0" A-404



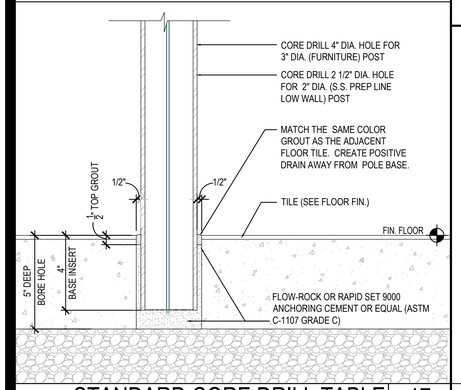
WALL BASE @ COOLER 3

Scale= 3" = 1'-0" A-404

FINISH WALL

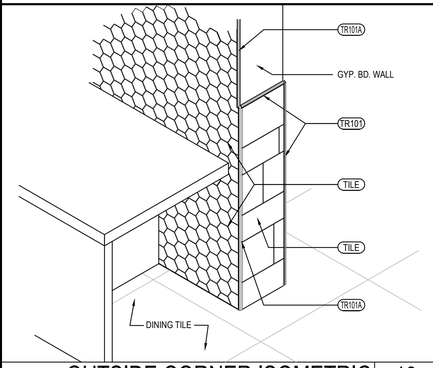


NOTE:
G.C. TO REFER CORE DRILL LOCATION ON SHEET A-109



STANDARD CORE DRILL TABLE 17

NTS A-404

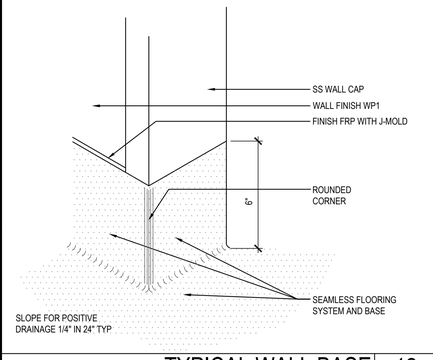


OUTSIDE CORNER ISOMETRIC 13

Scale= 3/4" = 1'-0" A-404

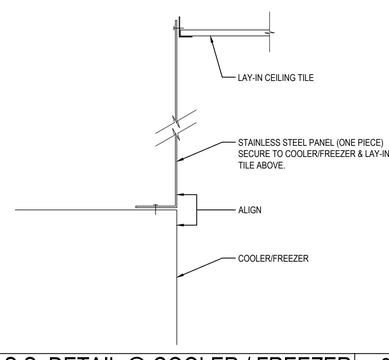
NOT USED 9

Scale= 1" = 1'-0" A-404



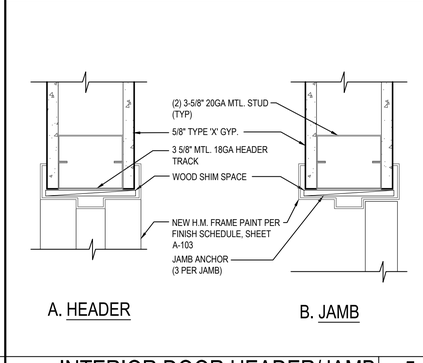
TYPICAL WALL BASE 12

Scale= 3" = 1'-0" A-404



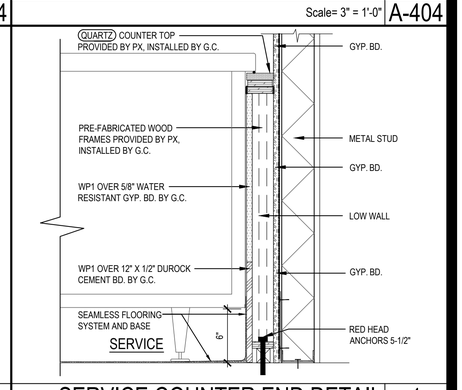
S.S. DETAIL @ COOLER / FREEZER 8

Scale= 1/2" = 1'-0" A-404



INTERIOR DOOR HEADER/JAMB 5

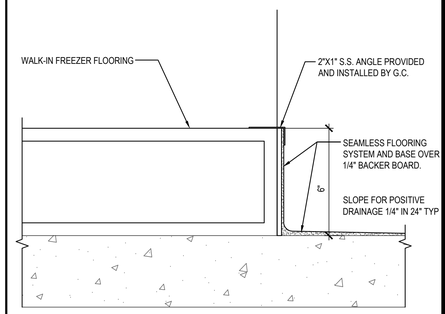
Scale= 3" = 1'-0" A-404



SERVICE COUNTER END DETAIL 1

Scale= 1 1/2" = 1'-0" A-404

WALL BASE @ FREEZER 2



Scale= 3" = 1'-0" A-404

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REVISIONS:

ISSUE DATE:

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DRAWN BY: AF

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

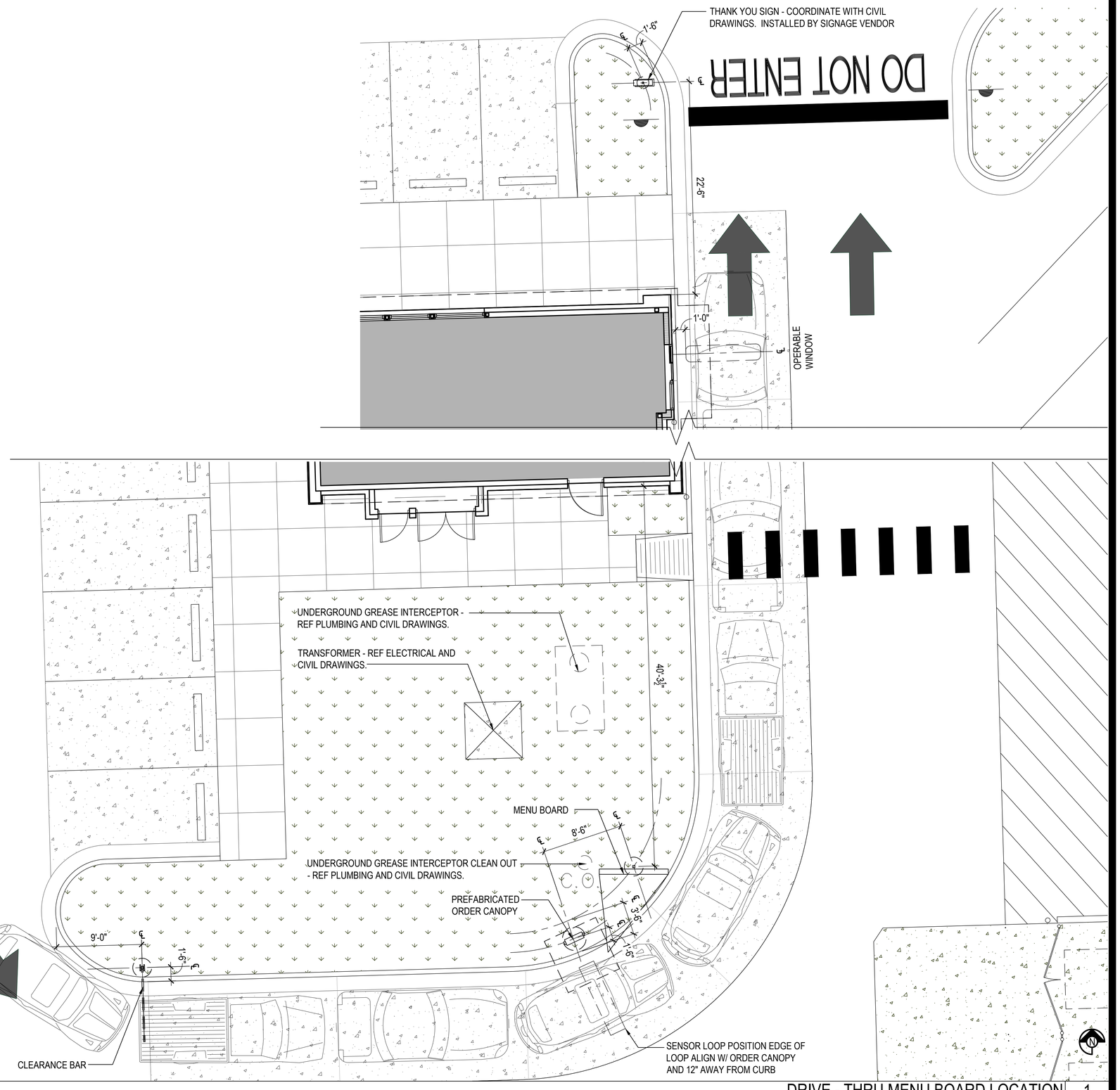
AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-404
ARCHITECTURAL DETAILS

TRUE WARM & WELCOME 2300 R4



DRIVE - THRU MENU BOARD LOCATION 1

Scale= 3/16" = 1'-0" A-405

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AMY LYNN CONT REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-405

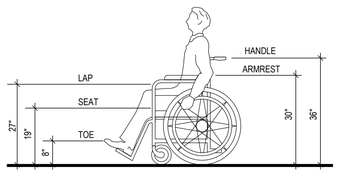
ARCHITECTURAL DETAILS
DRIVE THRU

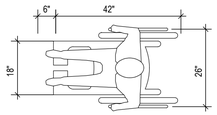
SITE DEVELOPMENT:

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)

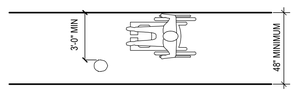




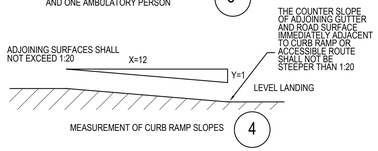
DIMENSIONS OF ADULT-SIZED WHEELCHAIRS (2)

CURB RAMPS, WALKS AND SIDEWALKS:

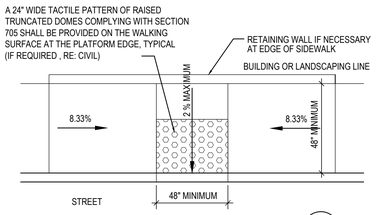
4. WALKS AND SIDEWALKS SHALL HAVE CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING ¼" AND SHALL BE A MINIMUM OF 36" IN. WIDTH PER ADA. (48" MIN. IS RECOMMENDED)
5. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL (5% 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 ½". 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 ¼" 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



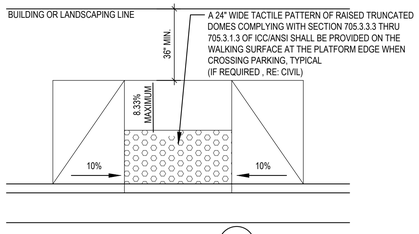
MINIMUM PASSAGE WIDTH FOR ONE WHEELCHAIR AND ONE AMBULATORY PERSON (3)



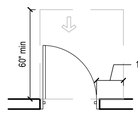
MEASUREMENT OF CURB RAMP SLOPES (4)



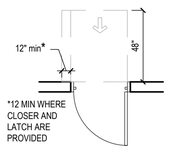
SIDEWALK CURB (5)



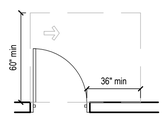
SIDEWALK CURB (6)



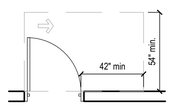
(A) FRONT APPROACH, PULL SIDE



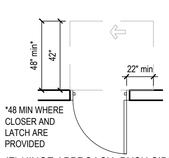
(B) FRONT APPROACH, PUSH SIDE



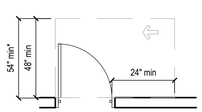
(C) HINGE APPROACH, PULL SIDE



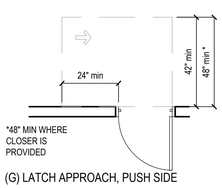
(D) HINGE APPROACH, PULL SIDE



(E) HINGE APPROACH, PUSH SIDE



(F) LATCH APPROACH, PULL SIDE



(G) LATCH APPROACH, PUSH SIDE

(7)

ENTRANCES:

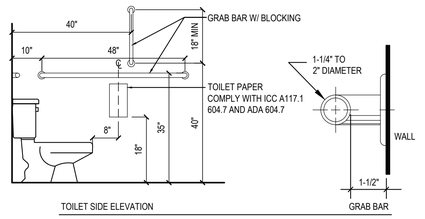
17. PROVIDE AT METALLIC SIGN OVER EACH STOREFRONT DOOR STATING: "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". LETTERS SHALL NT BE LESS THAN 1" HIGH ON A CONTRASTING BACKGROUND. THE SIGN SHALL BE INSTALLED BY THE GENERAL CONTRACTOR ON THE STOREFRONT ALUMINUM HEADER FRAME.
18. ALL NEW PRIMARY 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:

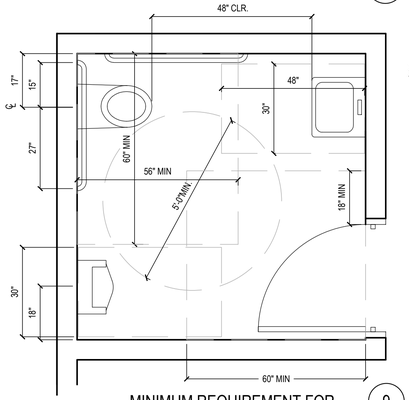
30. FLOOR SURFACES SHALL BE SLIP-RESISTANT
31. EVERY PORTION OF EVERY BUILDING IN WHICH ARE INSTALLED SEA TS, TABLES, MERCHANDISE, EQUIPMENT OR SIMILAR MATERIALS SHALL BE PROVIDED WITH AISLES LEADING TO AN EXIT.
32. EVERY AISLE SHALL BE NOT LESS THAN 3 FEET WIDE IF SERVING ONLY ONE SIDE, AND NOT LESS 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:

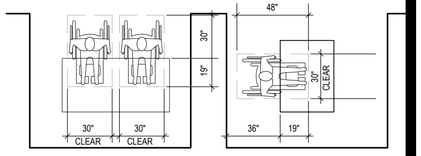
49. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE DESIGNED FOR 250 LBS. PER LINEAR FEET LOAD.
50. GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 35-INCHES TO TOP OF GRAB BAR AND PARALLEL TO THE 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.

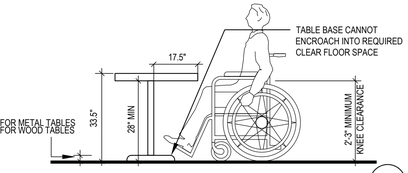
TELEPHONES:

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.

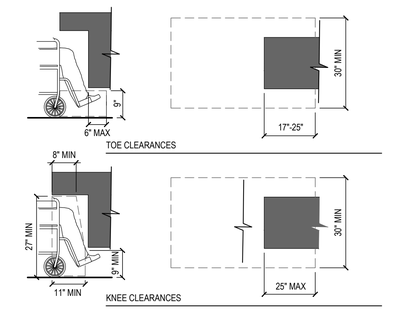
ADDITIONAL REQUIREMENTS:

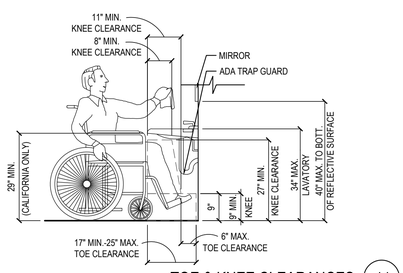
65. THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15- INCHES ABOVE THE FLOOR OR WORKING PLATFORMS.
66. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING 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:

STATE PERMIT SET	02/10/2021

DRAWN BY: AF

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR
ARCHITECTS ENGINEERS PLANNERS

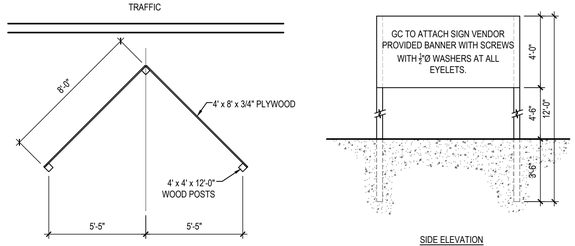
PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-406

HANDICAPPED NOTES AND DETAILS

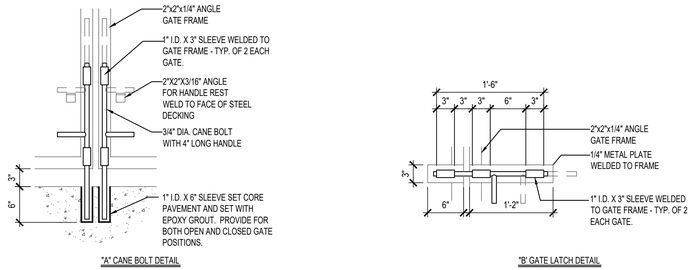
TRUE WARM & WELCOME 2300 R4

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



"COMING SOON" SIGN DETAIL 16

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

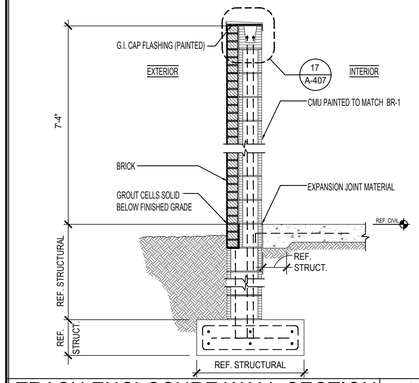


DUMPSTER GATE LATCH DETAILS 15

Scale= NTS A-407

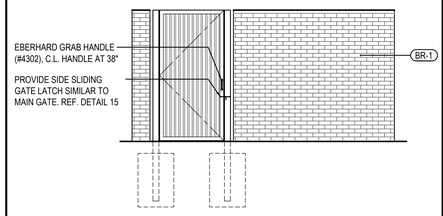
NOT USED 10

Scale: A-407



TRASH ENCLOSURE WALL SECTION 8

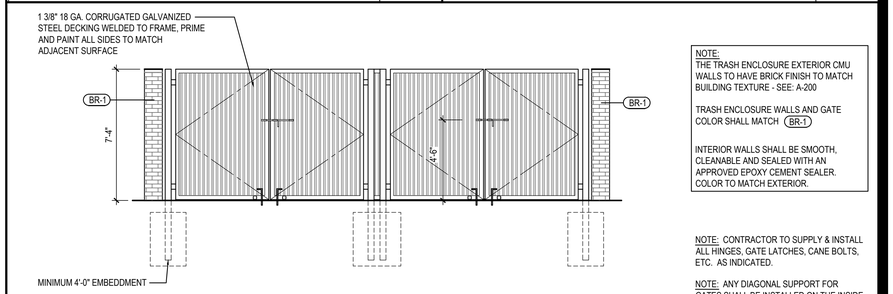
Scale= 1/2" = 1'-0" A-407



SIDE ELEVATION

SIDE ELEVATION 4

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



FRONT ELEVATION

NOTE:
THE TRASH ENCLOSURE EXTERIOR CMU WALLS TO HAVE BRICK FINISH TO MATCH BUILDING TEXTURE - SEE: A-200

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

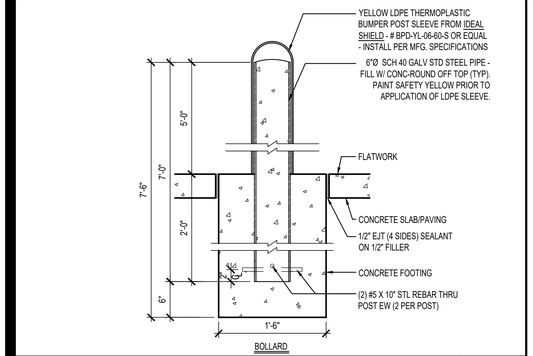
INTERIOR WALLS SHALL BE SMOOTH, CLEANABLE AND SEALED WITH AN APPROVED EPOXY CEMENT SEALER. COLOR TO MATCH EXTERIOR.

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.

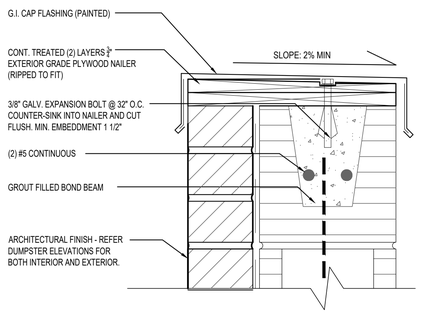
FRONT ELEVATION 2

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



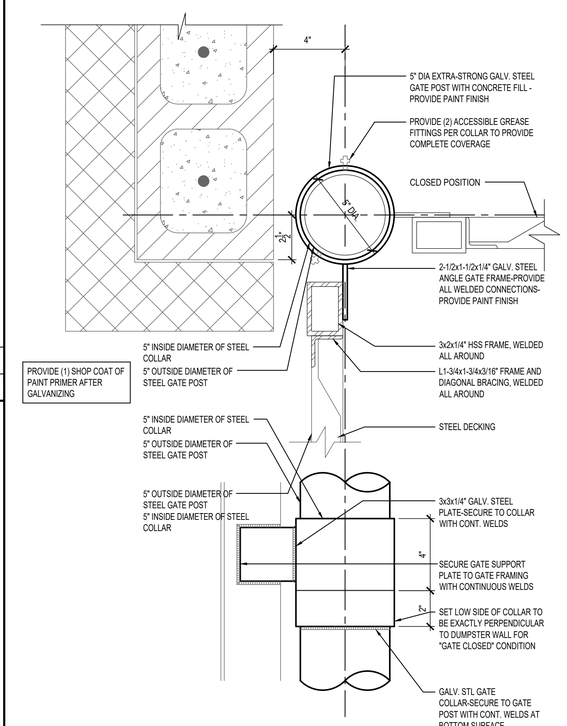
BOLLARD / POST BASE 18

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



DUMPSTER CAP DETAIL 17

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



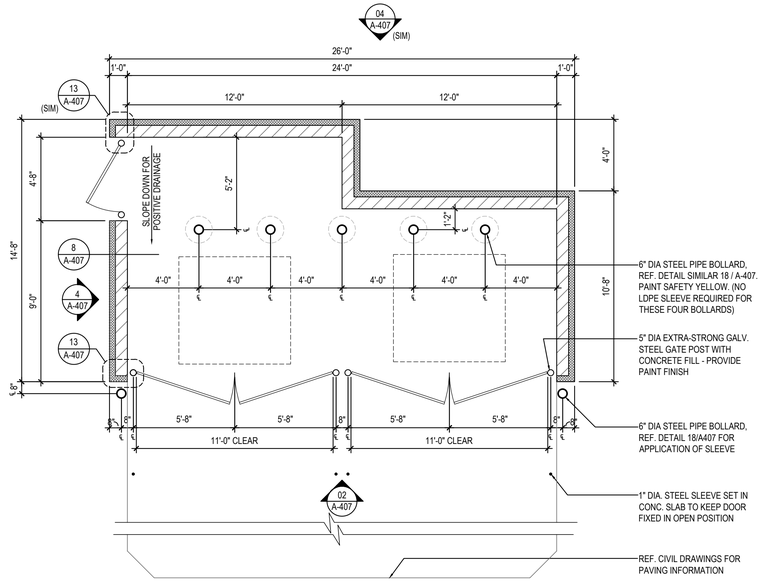
HINGE DETAIL 13

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

NOT USED 9

Scale: A-407

NOTE:
FLOOR OF DUMPSTER AREA MUST BE BROOM FINISH AND SEALED WITH (AQUA MIX SEALER'S CHOICE GOLD) CEMENT SEALER.



TRASH ENCLOSURE 1

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

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REVISIONS:

ISSUE DATE:

	STATE PERMIT SET	02/10/2021

DRAWN BY: AF

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR
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PANDA EXPRESS
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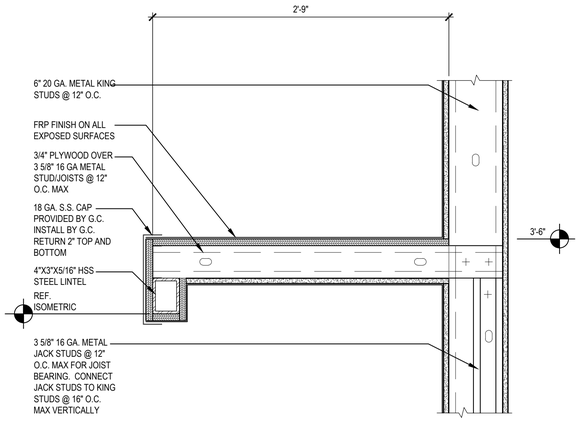
BROWNSBURG, IN 46112

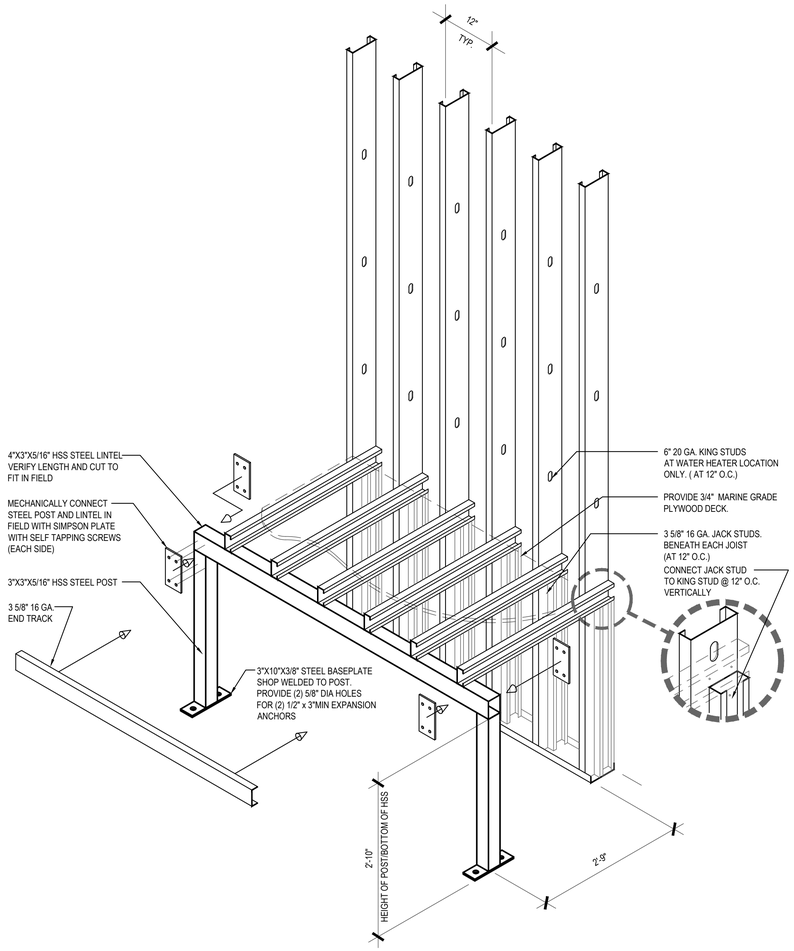
A-407

TRASH ENCLOSURE DETAILS

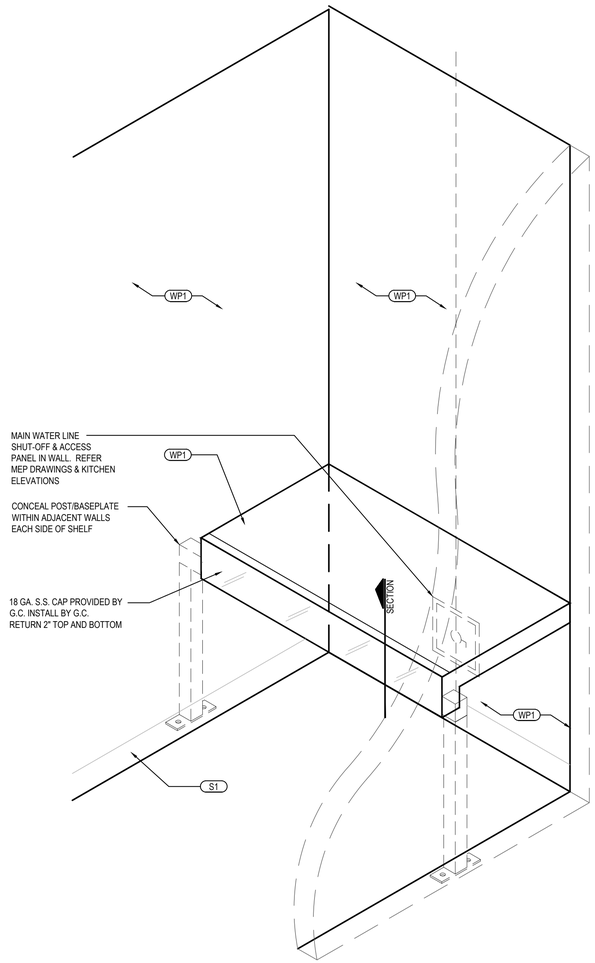
TRUE WARM & WELCOME 2300 R4



SECTION



FRAMING



FINISHES

WATER HEATER PLATFORM DETAILS | 01

Scale= 3/4" = 1'-0" | A-408

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
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Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

STATE PERMIT SET	02/10/2021

DRAWN BY: AF

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

AMY LYNN CONTI REGISTERED No. AR12000032 STATE OF INDIANA ARCHITECT
2/10/21

NORR ARCHITECTS PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-408

WATER HEATER SHELF DETAILS

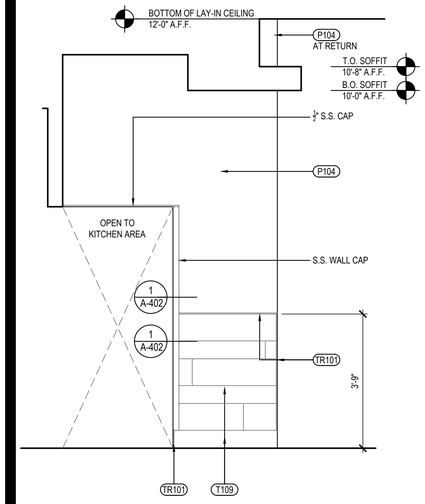
TRUE WARM & WELCOME 2300 R4

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

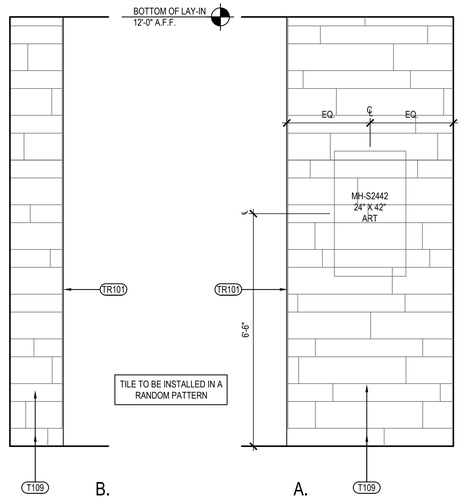
GENERAL DECOR NOTE:
ALL WALL DECORATIONS, PRINT LOCATIONS, ETC... TO BE VERIFIED WITH PANDA EXPRESS BY G.C.

G.C. SHALL PROVIDE/INSTALL ANY CONCEALED BACKING, MISC. HARDWARE NOT PROVIDED BY OWNER, ETC... AS REQUIRED.

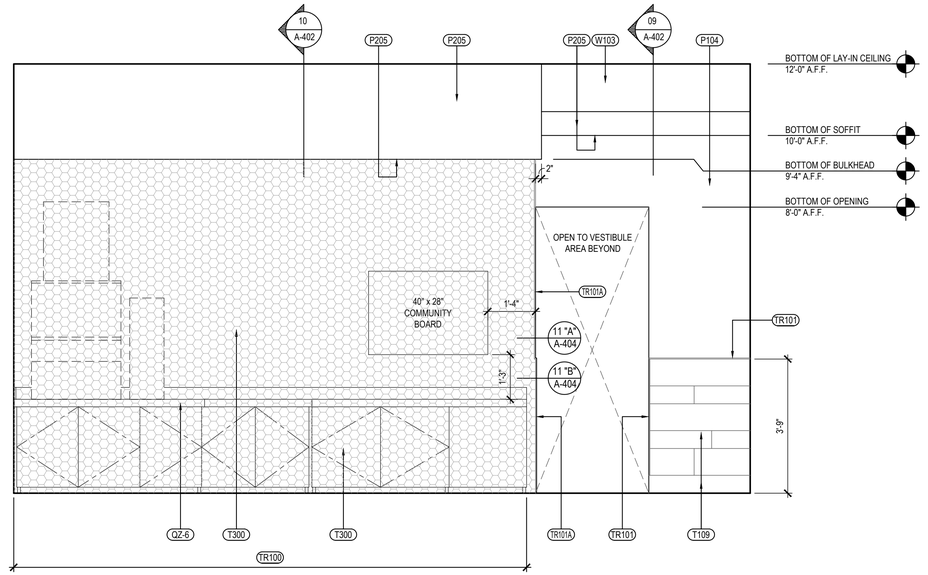
COORDINATE LOCATION OF ALARM DEVICES WITH ARTWORK (IF REQUIRED).



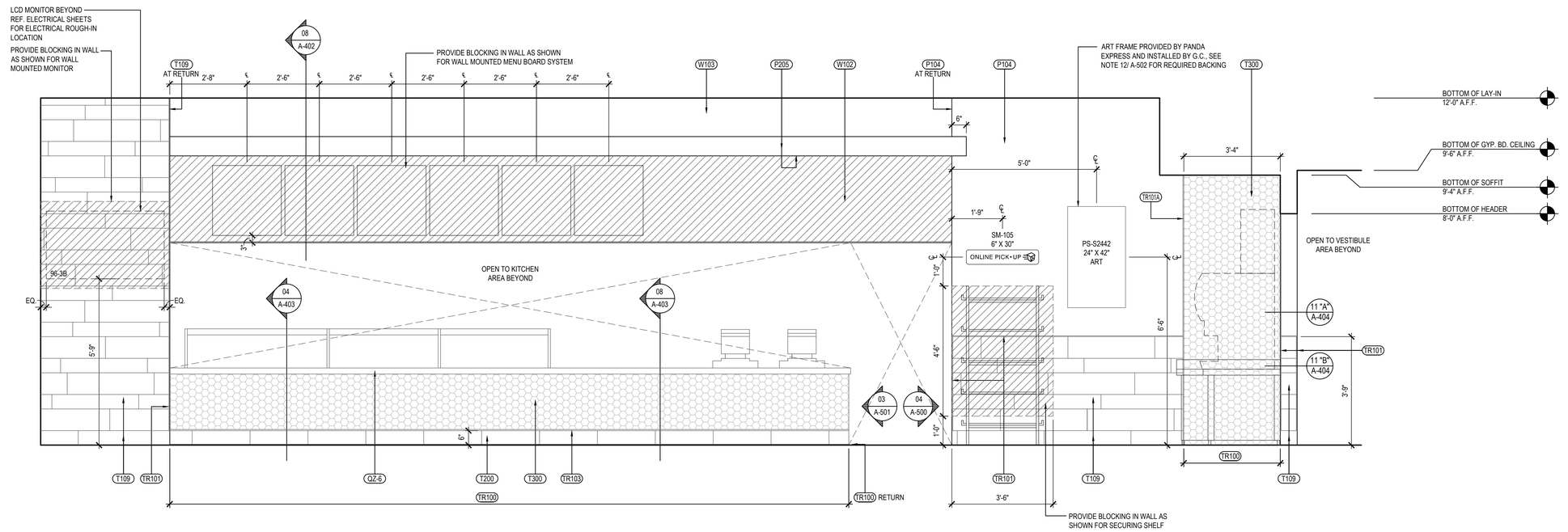
DINING ROOM ELEVATION 4
Scale= 1/2" = 1'-0" A-500



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

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ARCHITECT
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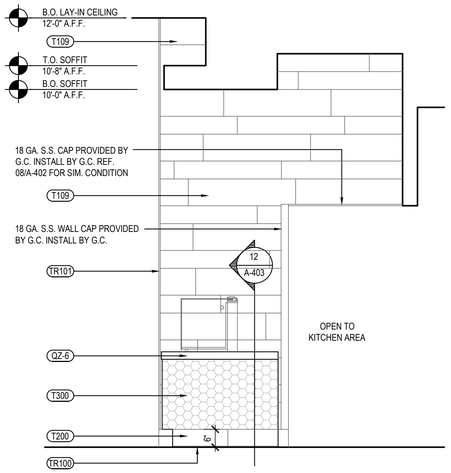
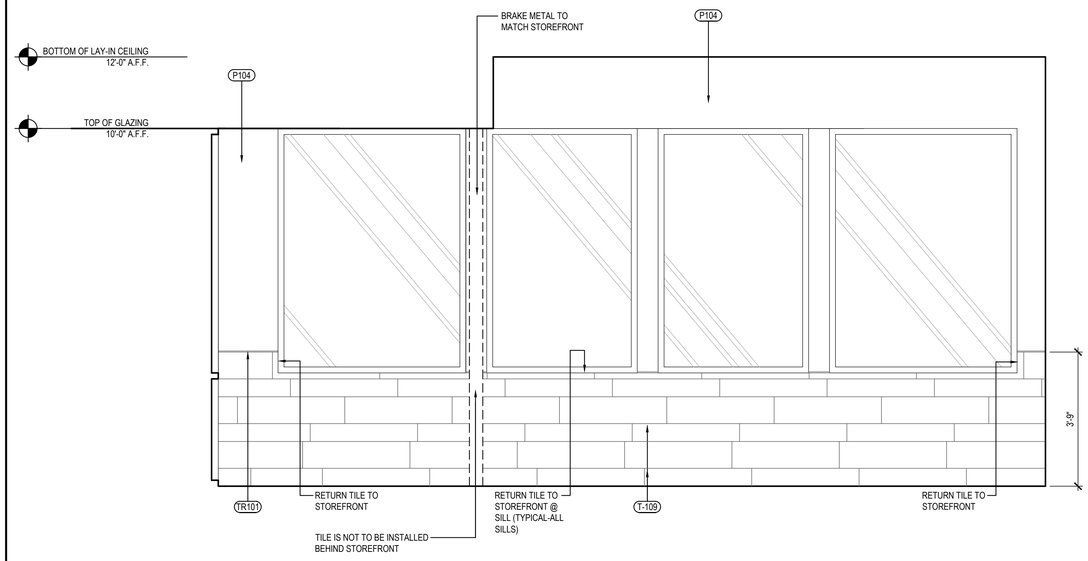
NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

A-500
INTERIOR ELEVATIONS

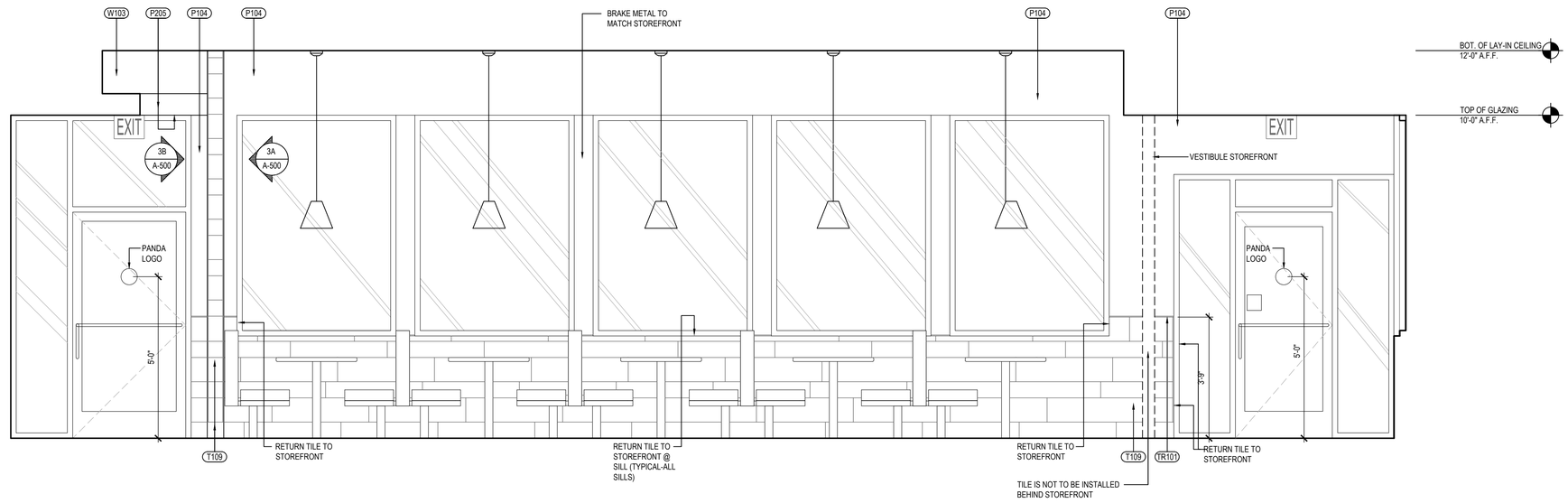


NOT USED | 4
Scale= 1/2" = 1'-0" | A-501



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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A-501

INTERIOR ELEVATIONS

1

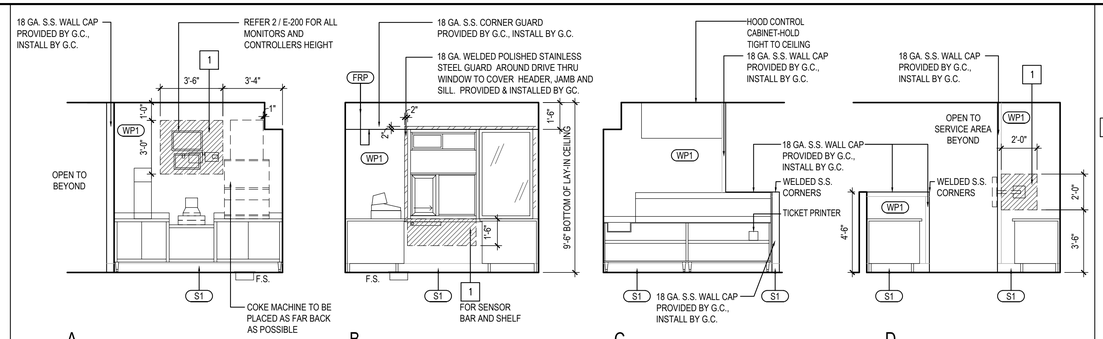
CONCEALED BACKING AS INDICATED BY THE DASHED BOX AREAS AROUND WALL SHELVING, SINK BACKS, ETC. SHALL CONSIST OF THE FOLLOWING:

- 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.

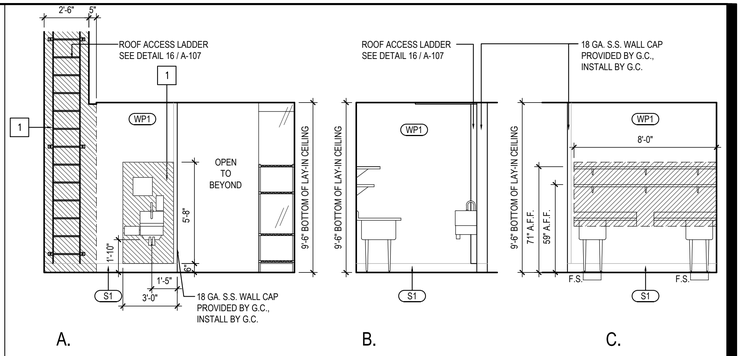
GENERAL BACKING NOTES 12

Scale= 1/4" = 1'-0" A-502



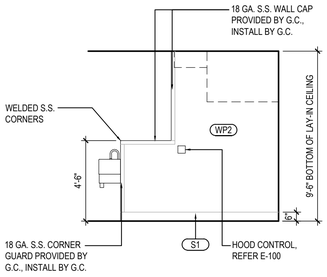
DRIVE-THRU ELEVATIONS 6

Scale= 1/4" = 1'-0" A-502



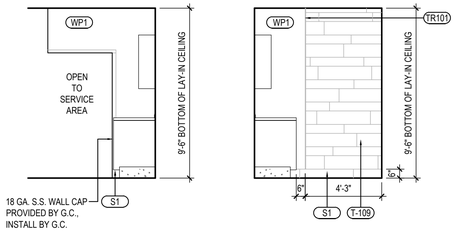
KITCHEN PREP ELEVATION 5

Scale= 1/4" = 1'-0" A-502



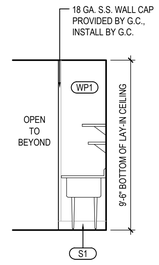
COOKLINE ELEVATION 9

Scale= 1/4" = 1'-0" A-502



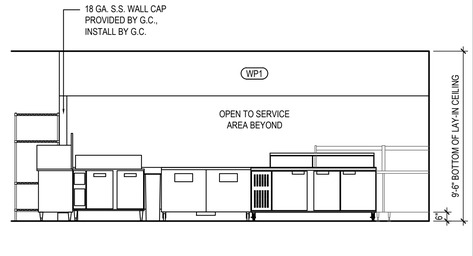
MANAGER'S STATION ELEVATIONS 8

Scale= 1/4" = 1'-0" A-502



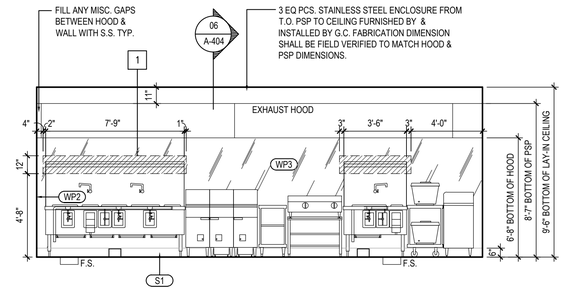
ELEV. 10

Scale= 1/4" = 1'-0" A-502



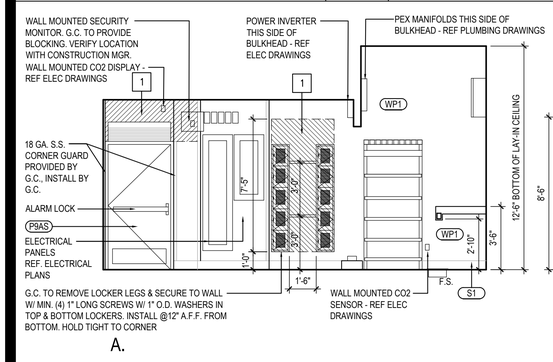
WALL BEHIND SERVICE 4

Scale= 1/4" = 1'-0" A-502



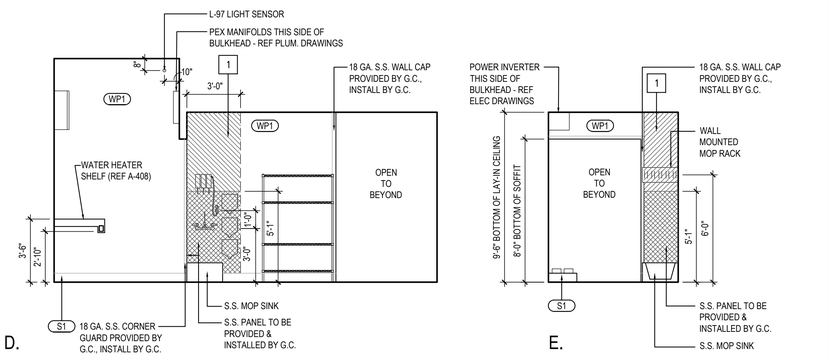
COOKLINE ELEVATION 3

Scale= 1/4" = 1'-0" A-502



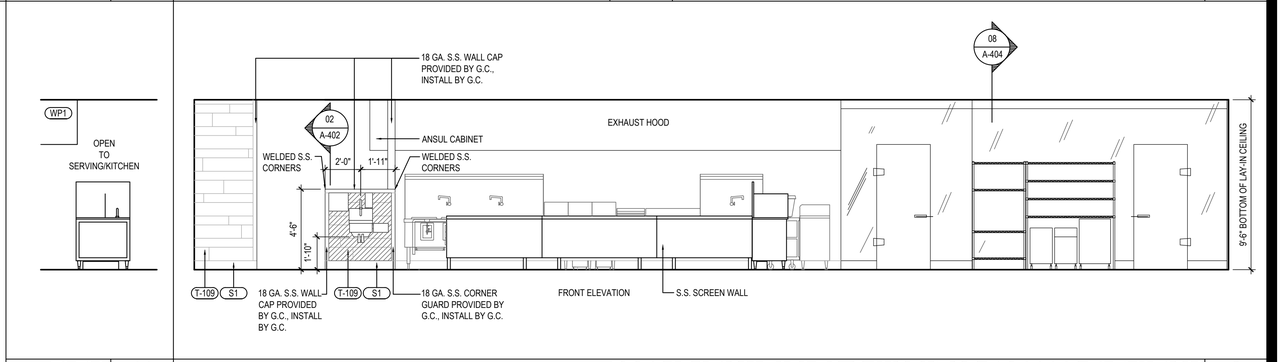
KITCHEN PREP / MOP SINK ELEVATIONS 7

Scale= 1/4" = 1'-0" A-502



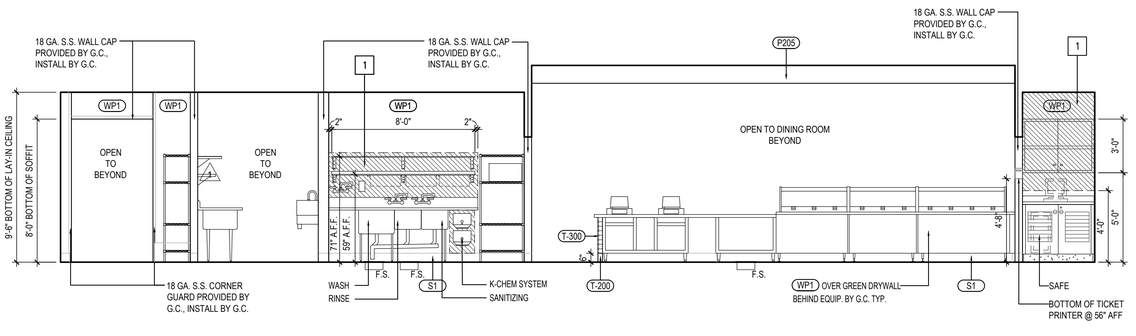
ELEV. 11

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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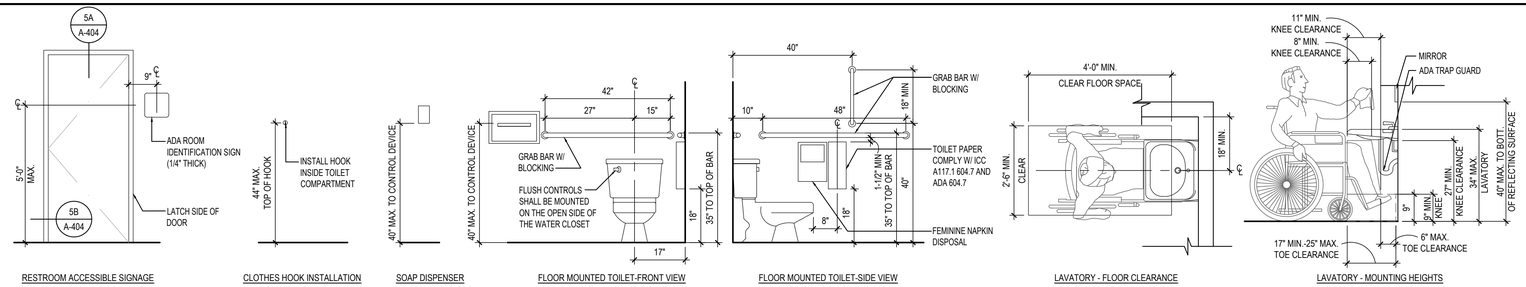
NORR ARCHITECTS. ENGINEERS. PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

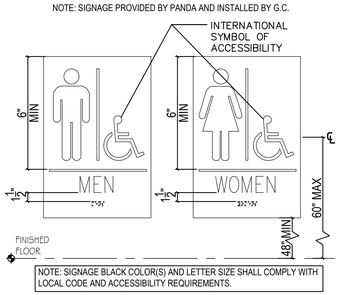
A-502

KITCHEN ELEVATIONS



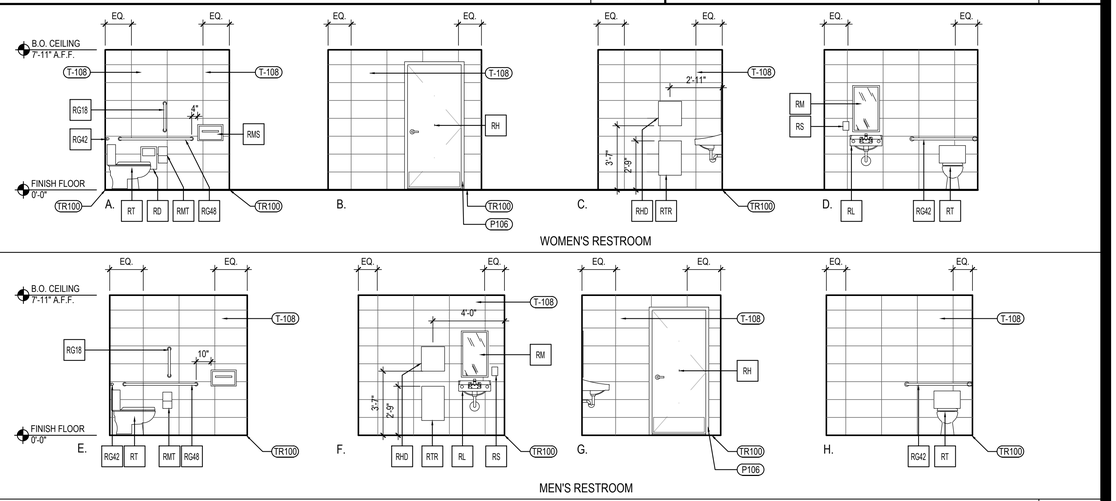
STANDARD ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES | 4

Scale= NTS | A-503



RESTROOM DOOR SIGNS | 3

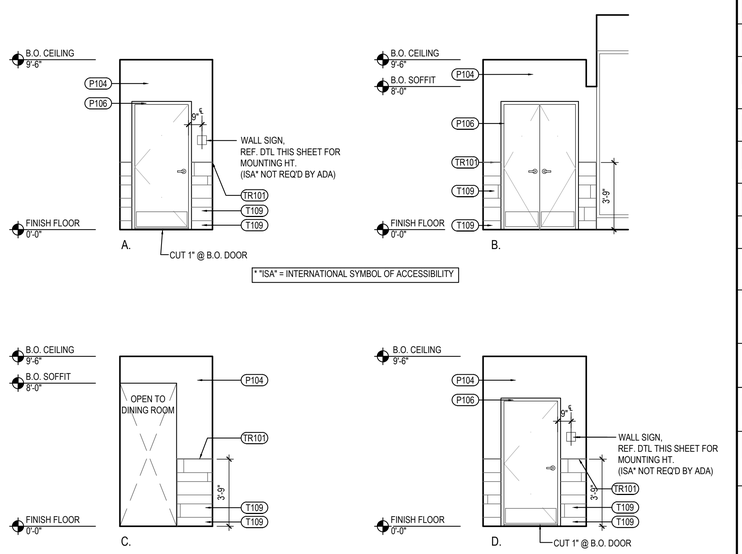
Scale= 1" = 1'-0" | A-503



RESTROOM ELEVATIONS | 2

Scale= 1/4" = 1'-0" | A-503

NOT USED



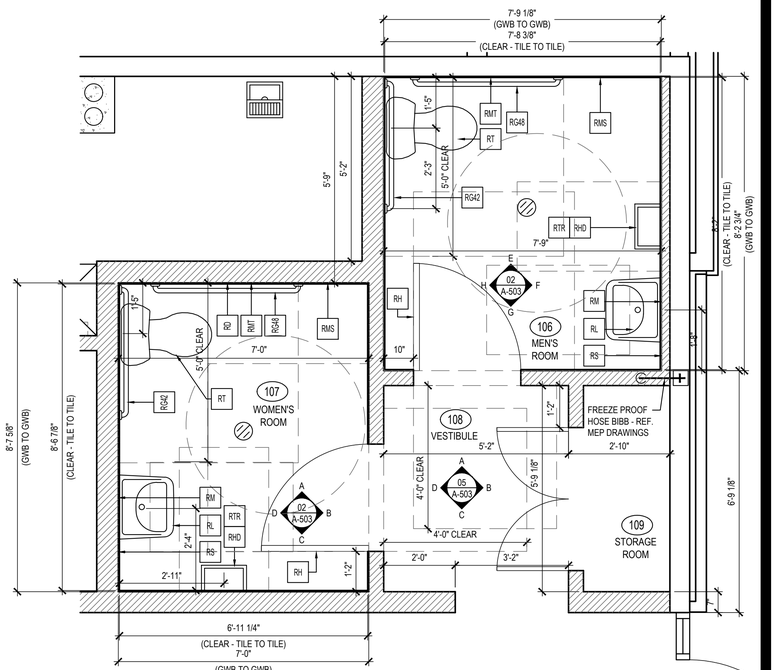
RESTROOM VESTIBULE ELEVATIONS | 5

Scale= 1/4" = 1'-0" | A-503

TOILET ACCESSORY SCHEDULE

NO	DESCRIPTION
RG42	BOBRICK GRAB BAR, 42" LONG B-6806 1 1/2" , SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RG48	BOBRICK GRAB BAR, 48" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RG18	BOBRICK GRAB BAR, 18" LONG B-6806 1 1/2" SATIN FINISH; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RM	BOBRICK CHANNEL FRAME MIRROR B-165 (1836) 18"X36" STAINLESS STEEL CHANNEL FRAME FURNISHED BY LOCKNET, INSTALLED BY G.C. 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 G.C.
RTR	BOBRICK SURFACE MOUNTED TRASH RECEPTACLE MODEL # B-277; FURNISHED BY LOCKNET, INSTALLED BY G.C.
RHD	PAPER TOWEL DISPENSER FURNISHED BY PANDA EXPRESS, INSTALLED BY G.C.
RMT	BOBRICK MUTI-ROLL TOILET TISSUE DISPENSER B-2888 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RT	AMERICAN STANDARD CADET RIGHT HEIGHT ELONGATED TOILET 2467.016 TLT, 4142.600 TANK, AMERICAN STANDARD #5321.110 SEAT, COLOR: WHITE. TRIP TO BE ON OPEN SIDE. FURNISHED AND INSTALLED BY G.C.
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 G.C.
RD	BOBRICK SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL B-254 STAINLESS STEEL, SATIN FINISH FURNISHED BY LOCKNET, INSTALLED BY G.C.
RH	BOBRICK SURFACE-MOUNTED CLOTHES HOOK AND BUMPER B-233 SOLID ALUMINUM CASTING, MATTE FINISH, INSIDE OF RESTROOM DOORS FURNISHED BY LOCKNET, INSTALLED BY G.C.

* INSULATE ALL PIPES (TRAP & HOT WATER) AT ACCESSIBLE LAVATORIES.



ENLARGED RESTROOM PLANS | 1

Scale= 1/2" = 1'-0" | A-503

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BROWNSBURG, IN 46112

A-503

ENLARGED RESTROOM PLANS AND ELEVATIONS

TRUE WARM & WELCOME 2300 R4

GENERAL NOTES:

1. BUILDING AND DESIGN CODES:
   - A. 2012 INTERNATIONAL BUILDING CODE WITH 2014 INDIANA AMENDMENTS
   - B. AISC 360-10: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (14TH EDITION STRUCTURAL STEEL MANUAL)
   - C. AISI S100-07/S1-10 WITH SUPPLEMENT 1 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
   - D. AWS STRUCTURAL WELDING CODE-SHEET STEEL, D1.3-2008.
   - E. ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 2011 EDITION
   - F. ACI DETAILING MANUAL, 2004
   - G. STRUCTURAL WELDED WIRE REINFORCEMENT MANUAL OF STANDARD PRACTICE, WIRE REINFORCEMENT INSTITUTE, 2011.
   - H. ACI 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, 2011 EDITION
   - I. CRSI MANUAL OF STANDARD PRACTICE, 2009.
2. DESIGN LOADS:
   - A. LIVE LOADS: UNIFORM
     - ROOF 20 PSF
     - SLAB ON GRADE 100 PSF
     - LIVE LOAD REDUCTION ON SUPPORTING ELEMENTS IN ACCORDANCE WITH, BUILDING CODE
   - B. DEAD LOADS:
     - ROOF DEAD LOAD 20 PSF
   - C. WIND LOADS:
     - 3 SECOND GUST WIND SPEED: V = 115 MPH (ULT) 89 MPH (ASD)
     - EXPOSURE: C
     - RISK CATEGORY: II
     - ENCLOSURE CLASSIFICATION ENCLOSED BUILDING
     - INTERNATIONAL PRESSURE COEFFICIENT ± 0.18
     - FOR COMPONENTS AND CLADDING WIND PRESSURE RE: 3/S-101
   - D. SEISMIC LOADS:
     - SEISMIC IMPORTANCE FACTOR: 1.0
     - OCCUPANCY CATEGORY: II
     - Ss: SPECTRAL ACC FOR SHORT PERIOD = 0.163g
     - S1: SPECTRAL ACC FOR 1 SECOND PERIOD = 0.087g
     - SITE CLASS D
     - SDS: DESIGN SPECTRAL ACC FOR SHORT PERIOD= 0.174g
     - SD1: DESIGN SPECTRAL ACC FOR 1 SECOND PERIOD= 0.139g
     - SEISMIC DESIGN CATEGORY C
     - Fa = 1.6
     - Fv = 2.4
     - BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
     - DESIGN BASE SHEAR (ASD) = 5.1 KIPS
     - Cs = 0.0268
     - R = 6.5
     - SEISMIC DESIGN PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
   - E. SNOW LOADS
     - I: IMPORTANCE FACTOR = 1.0
     - Ce: EXPOSURE FACTOR = 1.0
     - Cr: THERMAL FACTOR = 1.0
     - Pg = GROUND SNOW LOAD = 20 PSF
     - Pf = 0.7 Ce Ct I Pg = 14 PSF
     - Pf = 14.0 PSF + SNOW DRIFT RE: 3/S-101- LOAD CASE 1
     - Pf = 20.0 PSF UNIFORM - LOAD CASE 2
     - Pf = 19.0 PSF UNIFORM (14 PSF + 5 PSF (RAIN ON SNOW)) - LOAD CASE 3
   - F. ADDITIONAL DESIGN LOADS (ASD) INDICATED ON STRUCTURAL DRAWINGS SHALL BE IDENTIFIED AS FOLLOWS:
     - DL = DEAD LOAD
     - LL = LIVE LOAD
     - WL = WIND LOAD
     - EL = SEISMIC LOAD
3. GENERAL REQUIREMENTS:
   - A. SPECIFICATIONS ARE LISTED IN THE NOTES FOUND ON THIS SHEET. NO ADDITIONAL SPECIFICATION MANUAL IS INCLUDED FOR STRUCTURAL WORK.
   - B. VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIAL NOTIFY A/E OF DISCREPANCIES BEFORE PROCEEDING WITH ANY PHASE OF WORK.
   - C. VERIFY THE LOCATION OF CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, AND WALL OPENINGS.
   - D. DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
   - E. DETAILS LABELED "TYPICAL DETAILS" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED . SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION . NOTIFY ENGINEER OF CONFLICTS REGARDING APPLICABILITY OF "TYPICAL DETAILS".
   - F. DO NOT LOAD THE SLAB ON GRADE OR SUPPORTED SLAB WITH ERECTION CRANES OR ERECTION EQUIPMENT. THE SLABS HAVE NOT BEEN DESIGNED FOR CRANE LOADS AND WILL REQUIRE AN INCREASE IN THICKNESS AND/OR REINFORCEMENT OBTAIN AND/ APPROVAL ON PROPOSED CRANE SUPPORT PLAN FOR SLABS PRIOR TO COMMENCING WORK.
   - G. DO NOT STORE OR STACK CONSTRUCTION MATERIALS ON POURED OR ERECTED FLOORS/ROOFS IN EXCESS OF 80 PERCENT OF LIVE LOAD. GENERAL CONTRACTOR WILL ENSURE THAT ALL SUB-CONTRACTORS ARE INFORMED OF LOADING RESTRICTIONS.AVOID IMPACT WHEN PLACING MATERIALS ON POURED OR ERECTED FLOORS OR ROOF.
   - H. THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL MEASURES REQUIRED TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION; INCLUDING BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, SHORING OF RETAINING WALLS AND OTHER TEMPORARY SUPPORTS AS REQUIRED. COMPLY WITH APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
   - I. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON DRAWINGS. EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR THE REQUIRED OPENINGS AND PROVIDE FOR REQUIRED OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT, VERIFY SIZE AND LOCATION OF OPENINGS WITH THE MECHANICAL CONTRACTOR. DEVIATIONS FROM THE STRUCTURAL DRAWINGS MUST BE APPROVED PRIOR TO IMPLEMENTING THE CHANGES.
   - J. LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS. ANY CHANGES IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
   - K. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL SLAB DEPRESSIONS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.
   - L. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
     1) SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
     2) SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-LOAD BEARING PARTITIONS.
     3) SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS SLOPES, INSERTS, ETC. EXCEPT AS SHOWN.
     4) FLOOR AND ROOF FINISHES.
     5) WATERPROOFING AND DAMPPROOFING.
     6) DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
   - M. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
     1) PIPE AND DUCT RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS ETC. EXCEPT AS SHOWN OR NOTED.
     2) ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
     3) CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
     4) SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS MOTOR MOUNTS, EXCEPT AS SHOWN OR NOTED.
   - N. ALL MECHANICAL SYSTEMS SUSPENDED LOADS EXCEEDING 100 # SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION UNLESS SPECIFICALLY DETAILED OR NOTED ON THE STRUCTURAL DRAWINGS.

FOUNDATION:

1. FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERING REPORT ENTITLED "GEOTECHNICAL ENGINEERING REPORT", PROPOSED PANDA EXPRESS S8-21-08059 BROWNSBURG, IN PREPARED BY TERRACON CONSULTANTS, INC DATED NOVEMBER 16, 2020.

   COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF GEOTECHNICAL REPORT. FOOTING DESIGN IS BASED ON A 2000 PSF NET ALLOWABLE SOILS PRESSURE.
2. CONTRACTOR SHALL TREAT SOIL BELOW SLAB FOR TERMITES.
3. REFER TO THE GEOTECHNICAL REPORT AND SPECIFICATIONS FOR GENERAL REQUIREMENTS OF EARTHWORK, OVEREXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER PERTINENT REQUIREMENTS AND INFORMATION. IF THERE IS A CONFLICT BETWEEN GEOTECHNICAL REPORT AND STRUCTURAL PLANS THEN THE MORE STRINGENT CRITERIA SHALL APPLY UNLESS OTHERWISE DIRECTED BY AN RFI.
4. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS AND GRADE BEAMS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS OR THROUGH THE GRADE BEAMS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS AND GRADE BEAMS. LOWER FOOTINGS AND GRADE BEAMS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.
5. MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
6. ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE FOOTING SUBGRADES PRIOR TO PLACING CONCRETE.
7. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST,OR ICE.
8. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

CONCRETE:

1. PROVIDE BATCH MIXING, TRANSPORTATION, PLACING AND CURING OF CONCRETE IN ACCORDANCE WITH RECOMMENDATIONS OF ACI 301 AND ACI 318. USE ASTM C 150 CEMENT UNLESS NOTED OTHERWISE. PROVIDE ADMIXTURES AND SPECIAL REQUIREMENTS AS SPECIFIED.
   - A. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) CONCRETE AND:
     - f'c=3,500 PSI AT 28 DAYS FOR FOUNDATIONS, AND CONTINUOS FTG
     - f'c=4,000 PSI AT 28 DAYS FOR ALL OTHER CONCRETE
2. MINIMUM CEMENT CONTENT SHALL BE 470 LBS (5 SACKS) PER CUBIC YARD.
3. ASTM C618 CLASS 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. PREPARE AND SUBMIT MIXTURES FOR EACH CLASS OF CONCRETE ON THE BASIS OF LABORATORY TRIAL MIXTURES OR FIELD TEST DATA FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER
6. PROVIDE CONSTRUCTION AND CONTROL JOINTS AS INDICATED ON DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED BY STRUCTURAL ENGINEER. NOTIFY STRUCTURAL ENGINEER OF PROPOSED CONSTRUCTION JOINT OR CONTROL JOINT LOCATIONS THAT ARE DIFFERENT OR IN ADDITION TO JOINTS INDICATED ON DRAWINGS.
7. CHAMFER EXPOSED EDGES 3/4 INCH UNLESS OTHERWISE NOTED.
8. WIRE BRUSH AND CLEAN CONSTRUCTION JOINTS PRIOR TO POURING NEW CONCRETE.
9. REFERENCE THE APPROPRIATE DISCIPLINE DRAWINGS FOR SUBSLAB PIPING, FLOOR DRAINS AND SLAB AND WALL PENETRATIONS.
10. PROVIDE ADEQUATE STRUCTURAL FRAMING AS APPROVED BY STRUCTURAL ENGINEER FOR MECHANICAL OPENINGS THROUGH THE SLABS, WALLS AND FLOOR DECK. OPENINGS WILL NOT BE PERMITTED THROUGH BEAMS UNLESS SPECIFICALLY DETAILED.
11. ADMIXTURES:
    - A. AIR-ENTRAINING ADMIXTURE: ASTM C 260
    - B. WATER-REDUCING ADMIXTURE: ASTM C 494, TYPE A
    - C. RETARDING ADMIXTURE: ASTM C 494 TYPE B
    - D. ACCELERATING ADMIXTURE: ASTM C 494 TYPE C (NON CHLORIDE)
    - E. HIGH-RANGE, WATER REDUCING ADMIXTURE: ASTM C 494, TYPE F
    - H. OTHER ADMIXTURES FOR SPECIFIC USE WITH THE PERMISSION OF THE DESIGN PROFESSIONAL
    - F. WATER REDUCING AND ACCELERATING ADMIXTURE: ASTM C 494, TYPE E
    - G. WATER REDUCING AND RETARDING ADMIXTURE: ASTM C 494, TYPE D
12. COMPLY WITH RECOMMENDATIONS IN ACI 302.1R FOR SCREEDING, RESTRAIGHTENING AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE.
    - A. INTERIOR GARAGE FLOOR SLABS: SMOOTH TROWEL FINISH
    - B. EXTERIOR SLABS: LIGHT FLEXIBLE BRISTLE BROOM FINISH
13. PROVIDE ACI "CLASS A" TOLERANCE, 1/8 INCH VARIATION IN 10 FEET. MEASURED WITH A STRAIGHT EDGE LAID IN ANY DIRECTION.

MASONRY:

1. REINFORCED MASONRY WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES: ACI 530/ASCE 5/TMS 402.
2. REINFORCED MASONRY TO CONFORM TO THE SPECIFICATIONS FOR MASONRY STRUCTURES: ACI 530.1/ASCE 6/TMS 602 (WITH THE EXCEPTIONS NOTED IN JOB SPECIFICATIONS).
3. PROVIDE CONCRETE MASONRY UNITS (CMU) OF NORMAL WEIGHT (125 PCF MINIMUM), GRADE N, TYPE I OR II, CONFORMING TO LATEST EDITION OF ASTM C 90. LAY UNITS IN RUNNING BOND UNLESS OTHERWISE NOTED.
4. PROVIDE MASONRY ASSEMBLAGES WITH MINIMUM PRISM STRENGTH (f'm) OF 1,500 PSI, TESTED IN ACCORDANCE WITH ASTM C 140.
5. PROVIDE CONCRETE MASONRY UNITS IN ACCORDANCE ASTM C 426 LIMITS FOR DRYING SHRINKAGE OF CONCRETE BLOCKS.
6. PROVIDE VERTICAL REINFORCEMENT IN CMU WALLS AS SHOWN IN DRAWINGS. FILL THE REINFORCED CELLS SOLID WITH GROUT. MAXIMUM HEIGHT OF GROUT POURS TO BE AS PER THE SPECIFICATION FOR MASONRY STRUCTURES TABLE NO. 7. UNTIL WALL IS PERMANENTLY BRACED BY ROOF.
7. LAY HOLLOW UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. PROVIDE FULL MORTAR COVERAGE FOR WEBS WHEN ADJACENT TO GROUTED CELLS.
8. ALIGN VERTICAL CELLS TO BE FILLED WITH GROUT TO PROVIDE CONTINUOUS UNOBSTRUCTED VERTICAL CELLS. REMOVE OVERHANGING MORTAR OR OTHER OBSTRUCTION AND DEBRIS FROM THE INSIDES OF CELL WALLS. PROVIDE GROUT WITH 8 INCH SLUMP AND CONSOLIDATE BY MEANS OF HAND TAMPING TO ENSURE COMPLETE FILLING OF CELLS.
9. INSTALL ANCHORS, ACCESSORIES, AND OTHER ITEMS TO BE BUILT IN AS WORK PROGRESSES.
10. PERFORM CUTTING AND FITTING OF MASONRY WITH MASONRY SAWS PROVIDING CUT FINISHED UNITS.
11. CELLS AT OR BELOW FINISHED GRADE ARE TO BE GROUTED SOLID.
12. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, DO NOT SLOPE DOWEL MORE THAN ONE HORIZONTAL TO SIX VERTICAL.
13. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED BY ROOF.

MASONRY CONT:

14. SPECIAL INSPECTION IS REQUIRED AS FOLLOWS:
    - A. DURING PREPARATION OF REQUIRED PRISMS OR TEST SPECIMENS.
    - B. DURING THE LAYING OF MASONRY UNITS.
    - C. DURING PLACEMENT OF REINFORCING STEEL.
    - D. FOR GROUT SPACES PRIOR TO CLOSING OF CLEANOUTS AND GROUTING.
    - E. DURING ALL GROUTING OPERATIONS.

    FORWARD INSPECTION RESULTS TO THE ENGINEER OF RECORD.
15. GROUT FILL CORES SHALL CONFORM TO ASTM C478 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS.
16. MORTAR SHALL COMFORM TO ASTM C270
    - A. MASONRY BELOW GRADE: TYPE M MORTAR
    - B. EXTERIOR ABOVE GRADE MASONRY: TYPE S MORTAR
17. GALVANIZED HORIZONTAL REINFORCEMENT SHALL HAVE 9 GAGE SIDE AND CROSS RODS SPACED 16" ON CENTER. LAP REINFORCEMENT 7".

REINFORCING STEEL:

1. PROVIDE DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING AND ACCESSORIES IN ACCORDANCE WITH ACI 315 AND ACI 318.
2. PROVIDE NEW BILLET STEEL REINFORCING BARS IN ACCORDANCE WITH ASTM A 615, GRADE 60 DEFORMED.
3. COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDS AND ANCHOR RODS. SET ANCHOR RODS WITH A TEMPLATE. SECURELY ATTACH EMBED ITEMS TO FORMWORK OR REINFORCING.
4. PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINFORCEMENT. PROVIDE STANDARD 90-DEGREE HOOKS IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED.
5. MAINTAIN THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL UNLESS OTHERWISE NOTED:
   - A. CONCRETE CAST AGAINST EARTH: 3 INCHES
   - B. CONCRETE EXPOSED TO WEATHER
     - NO. 6 AND LARGER: 2 INCHES
     - NO. 5 AND SMALLER: 1 1/2 INCHES
   - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
     - SLABS AND WALLS
     - NO. 14 AND NO. 18: 1 1/2 INCHES
     - NO. 11 AND SMALLER: 3/4 INCHES
6. DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFICALLY SHOWN OR APPROVED BY STRUCTURAL ENGINEER.
7. WHEN SPECIFICALLY APPROVED, PROVIDE WELDED REINFORCEMENT IN ACCORDANCE WITH ASTM A 706 GRADE 60. USE LOW HYDROGEN ELECTRODES FOR WELDING OF REINFORCEMENT IN CONFORMANCE WITH "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL", AMERICAN WELDING SOCIETY, AWS D12.1. PROVIDE ASTM GRADE 40 REINFORCING BARS WHERE DETAILED BARS ARE TO BE WELDED TO A STEEL SECTION.
8. WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF MAIN REINFORCING.
9. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCEMENT WITH 90-DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON TYPICAL BAR PLACING DETAILS.
10. WHEN SHOWN ON DRAWINGS PROVIDE FIBRILLATED POLYPROPYLENE FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE COMPLYING WITH ASTM C1116, TYPE III, 1/2 TO 1 1/2 INCHES LONG.

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. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
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.

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 1 5/8" FLANGE WITH A 1/2" RETURN (U.N.O.)
4. ALL STUDS 43 MIL (18 GAGE) AND THINNER SHALL HAVE A MINIMUM YIELD STRENGTH, Fy, OF 33 KSI AND TENSILE STRENGTH, Fu, OF 45 KSI. ALL STUDS 54 MIL (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 STEEL" (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. 1 SOUTHERN PINE, NO. 2 DOUGLAS FIR LARCH, OR EQUIVALENT.
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 RAFTERS AND COLUMNS SHALL BE "SELECT" GRADE AS DESCRIBED IN AITC.
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. GLUED-LAMINATED MEMBERS SHALL BE DOUGLAS FIR INDUSTRIAL GRADE (24F-V8) OR APPROVED EQUAL U.N.O. MEMBER SIZES ARE BASED ON CURRENT NDS WESTERN SPECIES. GRADE 24F-V4 MAY BE SUBSTITUTED FOR SIMPLY SUPPORTED SPANS ONLY.

STRUCTURAL WOOD CONT:

7. PRE-FABRICATED METAL PLATED WOOD TRUSSES
   - A. TRUSS FABRICATION AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING STANDARDS:
     1. ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION".
     2. TPI HIB "COMMENTARY AND RECOMMENDATIONS FOR HANDLING INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES".
     3. TPI DSB "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES".
   - B. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
     1. TOP CHORD: LIVE LOAD =20 PSF UNIFORM OR SNOW LOAD
        DEAD LOAD =10 PSF

        SNOW LOADS-PER LOAD CASES 1 TO 3 UNDER GENERAL NOTES, DESIGN LOADS SNOW LOADS NOTE 2E THIS SHEET
     2. BOTTOM CHORD: LIVE LOAD =5 PSF (NON-CONCURENT)
        DEAD LOAD =10 PSF
     3. REFERENCE ROOF PLAN SHT S-101 FOR ADDITIONAL MECHANICAL EQUIPMENT LOADS.
     4. REFERENCE ROOF PLAN SHT S-101 FOR ADDITIONAL LOADS FROM HANGING SOFFITS.
     5. REQUIRED UPLIFT REFERENCE LOAD DIAGRAM DETAILS - DETAIL 3 ON S-101
   - C. ALL TRUSS-TO-TRUSS AND TRUSS FRAMING CONNECTORS SHALL BE SPECIFIED AND DESIGNED BY THE TRUSS MANUFACTURER.
   - D. BOTTOM CHORD TENSION SPLICES ARE PROHIBITTED WITHIN THE MIDDLE 1/3 OF THE SPAN.
   - E. FABRICATE, SUPPLY AND ERECT WOOD TRUSSES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. WORK TO INCLUDE ANCHORAGE, BLOCKING, CURBING, MISCELLANEOUS INCIDENTAL FRAMING AND CONSTRUCTION AND PERMANENT BRACING
   - F. FABRICATOR SHALL DESIGN AND FURNISH ALL TRUSS TO TRUSS HANGERS AND CONNECTIONS HARDWARE INCLUDING INSTALLATION INFORMATION
   - G. ALL LOADS SHALL BE LOCATED AT TRUSS TOP OR BOTTOM CHORD PANEL POINTS
   - H. COORDINATE SIZE AND LOCATIONS FOR MECHANICAL AND ELECTRICAL DUCTWORK PRIOR TO CONSTRUCTION
   - I. MAXIMUM ALLOWABLE LIVE LOAD DEFLECTION (UNLESS OTHERWISE NOTED ON PLAN) ROOF TRUSSES - SPAN/360
   - J. OPENINGS IN ROOF TO BE DESIGNED/FRAMED BY THE TRUSS SUPPLIER
   - K. VERIFY BEARING CONDITIONS PRIOR TO TO TRUSS FABRICATION
   - L. PROVIDE BRIDGING, WEB STIFFENERS, ETC. AS REQUIRED
   - M. 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 STATE OF INDIANA. SUBMITTALS WHICH DO NOT INCLUDE THE ABOVE INFORMATION WILL BE RETURNED TO THE CONTRACTOR PRIOR TO REVIEW
8. ROOF DECK
   - A. ALL ROOF DECK SHALL BE APA STRUCTURAL 1 GRADE EXTERIOR PLYWOOD OR ORIENTED STRAND BOARD.
   - B. ROOF SHEATHING SHALL BE 23/32 INCH THICK MINIMUM (48/24) U.N.O.
   - C. STAGGER ENDS OF SHEETS.
   - D. PROVIDE BLOCKING AT EDGES OF ALL ROOF SHEETS.
   - E. NAIL EDGES OF ROOF SHEETS AT 4 IN. O.C. MAXIMUM (U.N.O.).
   - F. NAIL FACES OF ROOF SHEETS AT 12 IN. O.C. MAXIMUM.
   - G. USE MINIMUM 10d COMMON NAILS (U.N.O.).
9. WALL SHEATHING
   - A. ALL WALL SHEATHING SHALL BE APA STRUCTURAL 1 GRADE EXTERIOR PLYWOOD OR ORIENTED STRAND BOARD.
   - 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.).
10. 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.
11. NAILING, UNLESS NOTED OTHERWISE, SHALL BE PER THE 2012 INTERNATIONAL BUILDING CODE. TABLE 2304.10.1

NAILING SCHEDULE (PER IBC TABLE 2304.9.1) UON

CONNECTION	FASTENING (1)	LOCATION
JOIST TO SILL OR GIRDER	3-8d COMMON 3-3"x 0.131" NAILS	TOE NAIL
BRIDGING TO JOIST	2-8d COMMON 3-3"x 0.131

Statement of Special Inspections

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- ☑ Soils and Foundations
- ☑ Cast-in-Place Concrete
- ☐ Special Cases
- ☑ Structural Steel
- ☑ Wood Construction
- ☑ Masonry

General Notes

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.

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	Monitoring: Periodic (P) Continuous (C)
1. Shallow Foundations	*Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.* *Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill.*	*P* *C*
2. Controlled Structural Fill	*Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.* *Inspect placement, lift thickness and compaction of controlled fill.* *Test density of each lift of fill by nuclear methods (ASTM D2922)* *Verify extent and slope of fill placement.*	*C*

Note:
1. Special Inspection is not required during placement of controlled fill having a total depth of 12 inches or less.

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.

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.* *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*

Masonry

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. Verify Compliance with the approved submittal	*Review submittals.*	*P*
2. Verification of F'M	*Review submittals.*	*P*
3. As masonry construction begins verify for complinace	*Verify.* *a. Portions of size prrepared mortar.* *b. Construction of mortar joints.* *c. location of connection.*	*P*
4. During construction	*Verify.* *a. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.* *b. preparation construction and portion of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90°)*	*P*
5. Observe preparation of mortar specimens and / or prisms	*Field review.* *a. Preparation of mortar cubes* *b. Preparation of test prisms*	*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*

CONCRETE MIX DESIGN REQUIREMENTS

MEMBER	EXPOSURE CATEGORY AND CLASSIFICATION F	S	W	C	SPECIFIED STRENGTH f'c, PSI	MAX W/CM RATIO	NOM MAX AGGREGATE IN	AIR CONTENT	SLUMP IN	TEMPERATURE LIMITS
FOOTINGS	F2	S0	W0	C1	4,500	0.45	3/4"	4% – 7%	4"	50° F 95°
SLAB-ON-GRADE	F0	S0	W0	C0	3,500	0.55	3/4"	0% – 3%	4"	50° F 95°
EXTERIOR SLABS	F3	S0	W1	C2	4,500	0.45	3/4"	4% – 7%	4"	50° F 95°

NOTES:

1. PROVIDE BATCH MIXING, TRANSPORTATION, PLACING AND CURING OF CONCRETE IN ACCORDANCE WITH RECOMMENDATIONS OF ACI 301 AND ACI 318. USE TYPE II OR TYPE V PORTLAND CEMENT UNLESS NOTED OTHERWISE. PROVIDE ADMIXTURES AND SPECIAL REQUIREMENTS AS SPECIFIED.
2. PROVIDE CONCRETE MIXES DESIGNED BY A QUALIFIED TESTING LABORATORY FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.
3. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPOSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS, AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
4. CONCRETE SLUMP TESTS SHALL BE MADE BEFORE AND AFTER THE ADDITION OF ADMIXTURES AND MAY BE TAKEN AT THE BACK OF THE TRUCK. CONCRETE FOR THE PREPARATION OF TEST CYLINDERS SHALL BE TAKEN FROM THE HOSE END FOR CONCRETE PLACED BY PUMP.

Structural Steel

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. Material Certification	*Review for conformance to contract documents. Submit to Structural Engineer of Record for review.*	*P*
2. Anchor Rods and embedded plates	*Inspect size, positioning and embedment of anchor rods and embedded plates*	*C*
3. Welder Qualification	*Qualification per AWS D1.1, Subclause 6.1.4., D1.1M*	*P*
4. Weld Acceptance	*Welds meet visual acceptance per AWS D1.1/D1.1M /C*	*C*

SPECIAL INSPECTION:

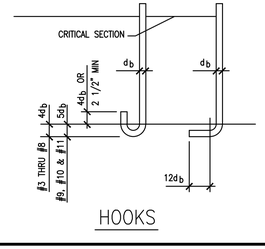
1. SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF IBC SECTION 1704 AND TABLE LISTED ON THIS SHEET. SPECIAL INSPECTOR(S) SHALL BE HIRED BY THE OWNER TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THE NAMES OF PERSONS OR FIRMS WHO ARE TO PERFORM THE SPECIAL INSPECTIONS SHALL BE FORWARDED TO THE BUILDING OFFICIAL FOR APPROVAL. THE SPECIAL INSPECTOR(S) SHALL COMPLETE AND SUBMIT ALL FORMS REQUIRED BY THE CITY OF BROWNSBURG, INDIANA
2. ITEMS LISTED IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH MEC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY.
3. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS.
4. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE REGISTERED DESIGN PROFESSIONAL, CONTRACTOR, AND BUILDING OFFICAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
5. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND REGISTERED DESIGN PROFESSIONAL PRIOR TO COMPLETION OF THAT PHASE OF THE WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL CONTRACTOR DESIGNED COMPONENTS
6. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
7. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECAIL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK (REFERENCE IBC SECTION 1702)
8. ALL WELDS SHALL BE VISUALLY INSPECTED IN ACCORDANCE WITH IBC SECTION 1705.2
9. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USING ANOTHER APPROVED METHOD (IBC 1705.2.1) IN ACCORDANCE WITH IBC SECTION 1705.2
10. WELDING INSPECTIONS SHALL BE IN COMPLIANCE WITH AWS D1.1
11. INSPECTION OF PRE-FABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE THE MATERIAL USED IN THE CONSTRUTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PRE-FABRICATION IF THE APPROVED TESTING AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE
12. ANY CONSTRUCTION OR MATERIAL THAT HAVE FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT REQUIRED DURING PRE-FABRICATION IF THE APPROVED TESTING AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE
13. SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE
14. SLIP-CRITICAL CONNECTIONS MAY HAVE PERIODIC SPECIAL INSPECTION PROVIDED THAT THE TURN-OF-THE-NUT METHOD WITH MATCHMARKING TECHNIQUES ARE USED

DEFERRED SUBMITTAL:

1. THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS, PENDING APPROVAL OF THE BUILDING OFFICIAL:
   - A. RACKS INCLUDING LATERAL BRACING AND ANCHORAGE
   - B. CORRESPONDING JOIST PLANS AND PIECE SUBMITTALS.
   - C. DESIGN DRAWING FOR ATTACHMENT OF MECHANICAL AND ELECTRICAL COMPONENTS TO THE STRUCTURE AND SUPPORTED BY THE STRUCTURE.
   - D. CONCRETE DESIGN MIXES.
   - E. COLD FORMED METAL FRAMING SHOP DRAWINGS. CALCULATIONS MUST MAKE REFERENCE TO THE PLANS AND PIECE SUBMITTALS.
   - F. MASONRY REINFORCING SHOP DRAWINGS.
   - G. STRUCTURAL STEEL SHOP DRAWINGS. CALCULATIONS MUST MAKE REFERENCE TO THE PLANS AND PIECE SUBMITTALS.
   - H. CONCRETE REINFORCING SHOP DRAWINGS.
   - I. PRE-FABRICATED METAL PLATED WOOD TRUSS SHOP DRAWINGS.
   - J. PANELIZED WOOD FRAMING SHOP DRAWINGS CALCULATIONS MUST MAKE REF TO THE THE PLANS AND PIECE SUBMITTALS
2. DEFERRED SUBMITTALS MUST BE ACCOMPANIED BY CALCULATIONS SIGNED BY A REGISTERED INDIANA ENGINEER.
3. DEFERRED SUBMITTALS MUST BE SUBMITTED PRIOR TO INSTALLATION AND MUST BE APPROVED BY THE ENGINEER OF RECORD FOR GENERAL CONFORMANCE TO DESIGN ASSUMPTION INTENT.

CONCRETE REINFORCING SPLICE DEVELOPMENT LENGTH

	SPLICE LENGTHS (CLASS "B")				DEVELOPMENT LENGTH			
	ALL BARS EXCEPT TOP BARS		TOP BARS (HORIZ BARS WITH MORE THAN 12" OF CONC BELOW)		ALL BARS EXCEPT TOP BARS		TOP BARS (HORIZ BARS WITH MORE THAN 12" OF CONC BELOW)	
f'c (PSI) / BAR SIZE	INCHES		INCHES		INCHES		INCHES	
	3000	4000	3000	4000	3000	4000	3000	4000
#3	16	16	21	18	13	12	16	14
#4	22	19	28	24	17	15	22	19
#5	27	23	35	30	21	18	27	23
#6	43	37	56	48	33	29	43	37
#7	63	54	81	71	48	42	63	54
#8	72	62	93	81	55	48	72	62
#9	81	70	105	91	62	54	81	70
#10	89	77	116	101	69	60	89	77
#11	98	85	128	111	76	66	98	85



HOOKS

NOTES:

1. DEVELOPMENT AND SPLICE LENGTHS SHOWN ARE BASED ON THE TABLE PROVIDED IN ACI 318-14 SECTION 25.4.2.2 AND APPLY UNLESS OTHERWISE NOTED ON PLANS AND DETAILS.
2. ALL LENGTHS AND COVERS ARE GIVEN IN INCHES UNLESS OTHERWISE NOTED.
3. TABULAR VALUES FOR DEVELOPMENT AND SPLICE LENGTHS ARE BASED ON NORMAL WEIGHT CONCRETE, GRADE 60 UNCOATED REINFORCING, CLEAR SPACING OF BARS EQUAL TO OR GREATER THAN 2 x BAR DIA OR 1 1/2", WHICHEVER IS GREATER, AND CLEAR COVER EQUAL TO OR GREATER THAN 1 x BAR DIAMETER OR 3/4", WHICHEVER IS GREATER.
4. TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE CONSIDERED AS TOP BARS. VERTICAL BARS MAY BE CONSIDERED AS OTHER BARS.
5. SPLICES SHALL NOT BE MADE AT POINTS OF MAXIMUM STRESS AS DETERMINED BY THE ENGINEER.

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REVISIONS:

ISSUE DATE:

STATE PERMIT SET	02/10/2021

DRAWN BY: D. GRIFFIN

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

GARY MAEDA REGISTERED No.PE10810074 STATE OF INDIANA PROFESSIONAL ENGINEER 2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

S-001

NOTES AND SPECIAL INSPECTIONS

PLAN NOTES

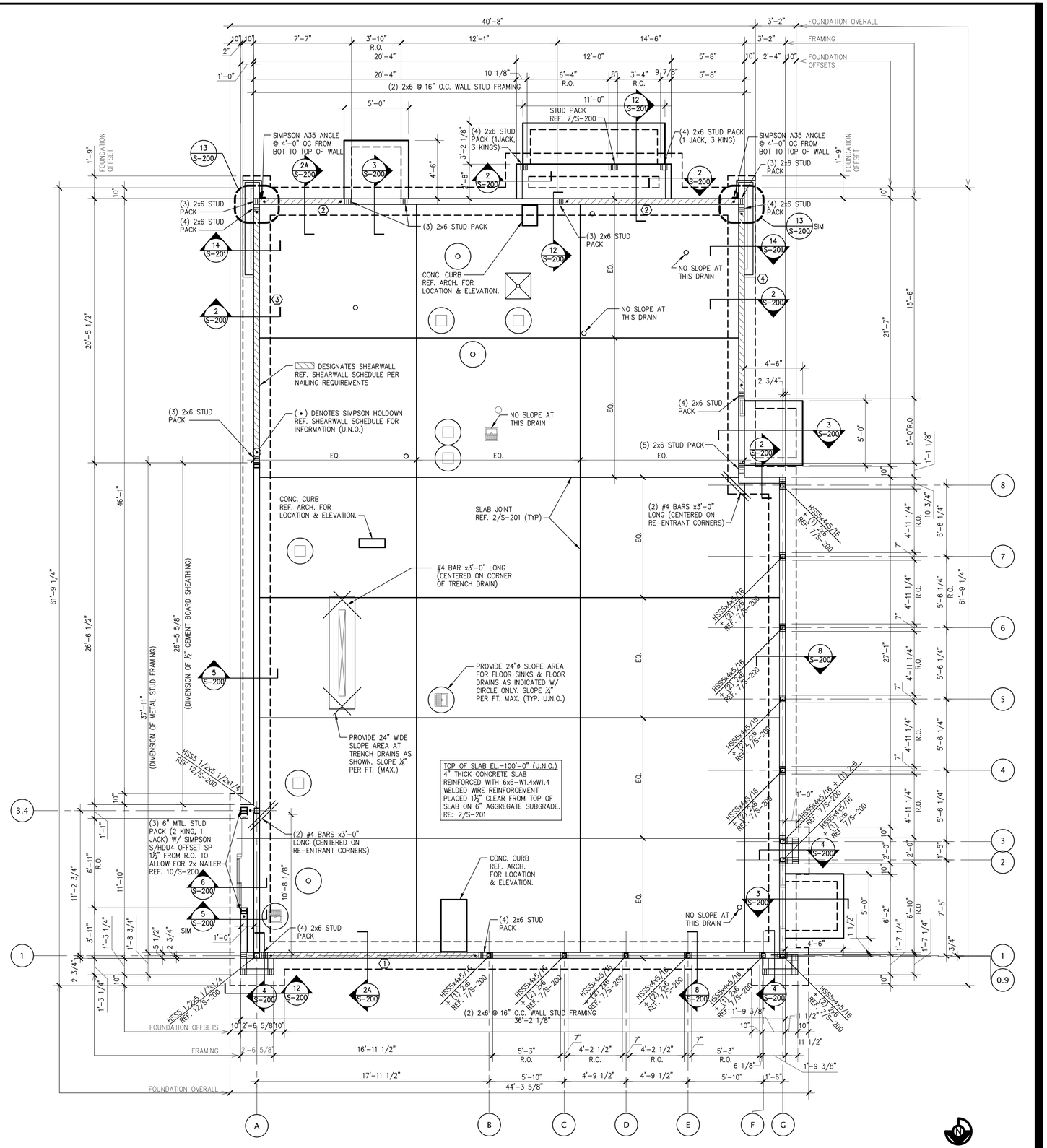
1. REF. SHEET S-000 FOR STRUCTURAL NOTES AND SPECIAL INSPECTIONS.
2. REF. 3/S-201 FOR TYPICAL PIPE AND TRENCH DETAIL AS REQUIRED.
3. REF. 4/S-201 FOR TYPICAL SILL PLATE BOLT DETAIL AS REQUIRED.
4. REF. 5/S-201 FOR TYPICAL STEP FOOTING DETAIL AS REQUIRED.
5. REF. 6/S-201 FOR TYPICAL GRADE BEAM STIRRUP 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. 10/S-201 FOR TYPICAL TRENCH DRAIN DETAIL AS REQUIRED.
15. REF. 11/S-201 FOR TYPICAL DRAIN DETAIL AS REQUIRED.
16. REF. 19/S-201 FOR TYPICAL METAL STUD BLOCKING.
17. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF ALL DEPRESSIONS, CURBS, DRAINS, ETC. IN FLOOR SLAB.
18. REFER TO GEOTECHNICAL REPORT FOR SITE PREPARATION.

SHEARWALL SCHEDULE

TYPE	NAIL SPACING	HOLDOWN	ANCHOR BOLTS	END POST THICKNESS UON
⟨1⟩	10d @ 4" O.C.	HDU14-SDS2.5	⅝"ø @ 24" O.C.	6" MIN WOOD END POST THICKNESS
⟨2⟩	10d @ 4" O.C.	HDU11-SDS2.5	⅝"ø @ 24" O.C.	4 1/2" MIN WOOD END POST THICKNESS
⟨3⟩	10d @ 6" O.C.	HDU8-SDS2.5	⅝"ø @ 32" O.C.	4 1/2" MIN WOOD END POST THICKNESS
⟨4⟩	10d @ 4" O.C.	HDU11-SDS2.5	⅝"ø @ 24" O.C.	6" MIN WOOD END POST THICKNESS

⟨X⟩ – DESIGNATES SHEARWALL TYPE

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.



FOUNDATION NOTES 1
Scale: NO SCALE S-100

FOUNDATION PLAN A
Scale: 1/4"=1'-0" S-100

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REVISIONS:

ISSUE DATE:

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DRAWN BY: DWG

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

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NORR ARCHITECTS ENGINEERS PLANNERS

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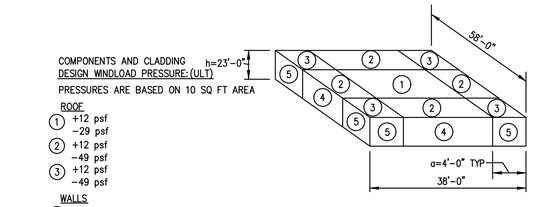
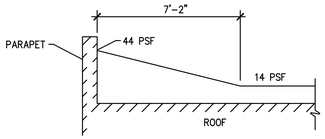
S-100
FOUNDATION PLAN

TRUE WARM & WELCOME 2300 R4

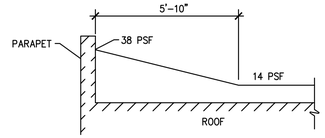


WALL PRESSURE (ULT) (PER ASCE7-10 CHAPTER 27 PART 1)		
	WINDWARD	LEEWARD
0'-15'	16.6 PSF	10.4 PSF
20.0'	17.6 PSF	10.4 PSF

WIND NET UPLIFT (ASD) (PSF)			
ROOF DECK		ROOF TRUSSES	
TYPICAL	W/IN 4.0' OF PERIMETER	TYPICAL	W/IN 4.0' OF PERIMETER
19	29	12	15

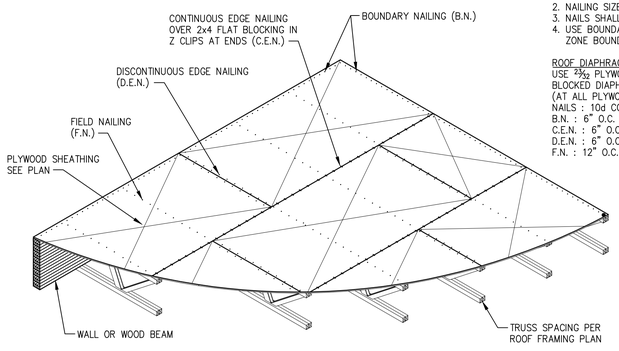


SNOW DRIFT AT BLDG END WALL PERPENDICULAR TO TRUSSES



SNOW DRIFT AT EACH END OF TRUSSES

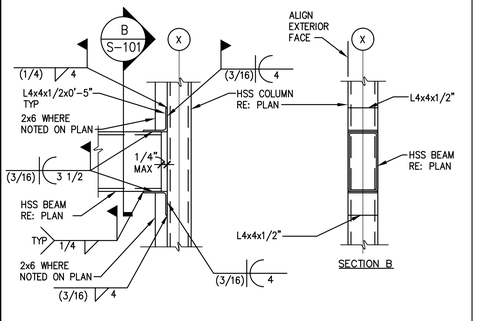
TYPICAL LOAD DIAGRAM DETAIL 3 / S-101



NOTES:
1. RUN LONG DIMENSION OF PLYWOOD PERPENDICULAR TO TRUSSES.
2. NAILING SIZE AND SPACING AS NOTED ON PLAN.
3. NAILS SHALL HAVE A MIN. ⅜" EDGE DISTANCE.
4. USE BOUNDARY NAILING CONTINUOUS @ ALL NAILING ZONE BOUNDARIES. SEE PLAN FOR ZONE EXTENTS.

ROOF DIAPHRAGM
USE 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



HSS BEAM TO COL CONN 4 / SCALE: 1"=1'-0" S-101

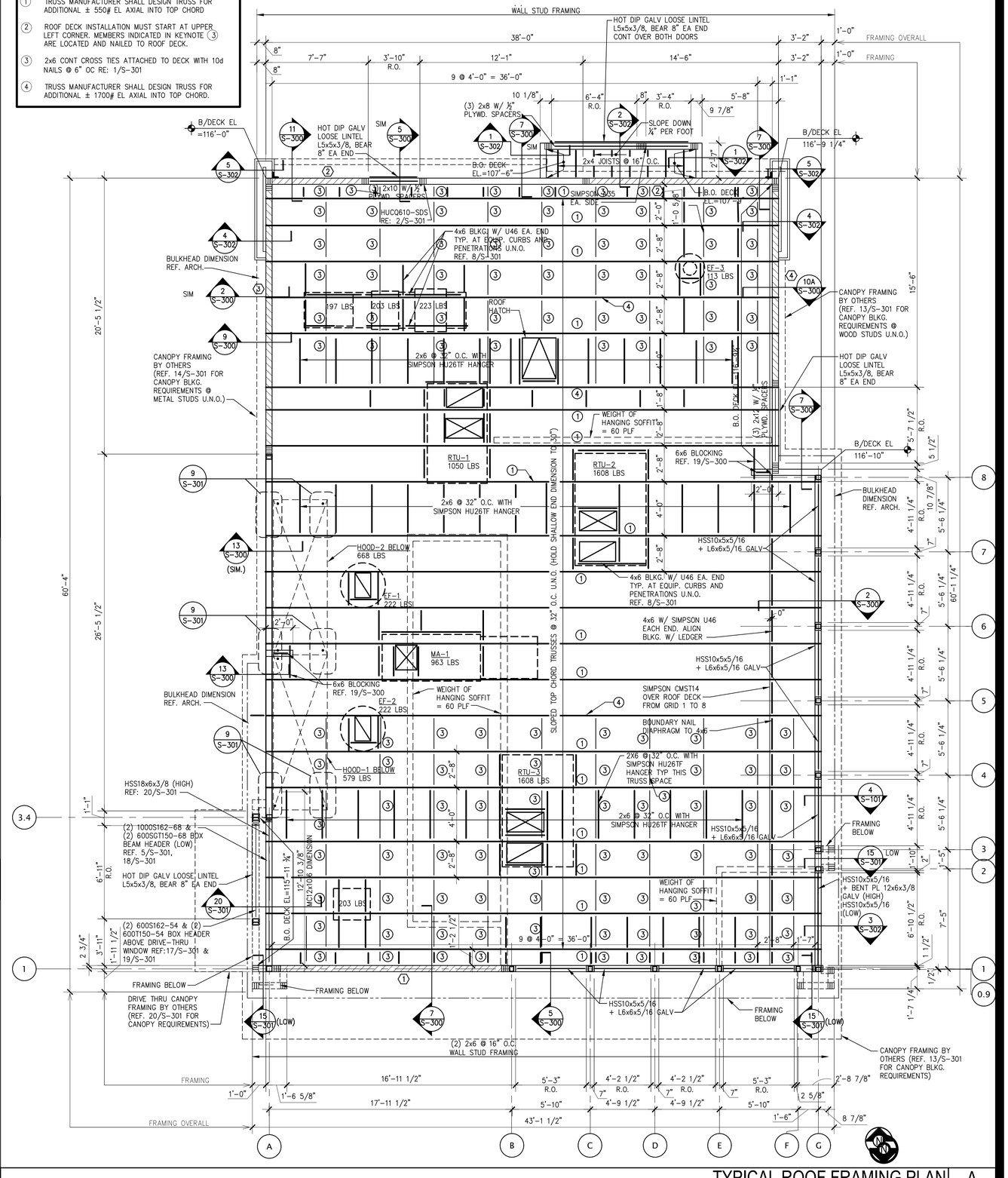
PLAN NOTES

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. 13/S-201 FOR METAL STUD VERTICAL BLOCKING.

TYPICAL ROOF NOTES 1 / S-101

KEYNOTES:

1. TRUSS MANUFACTURER SHALL DESIGN TRUSS FOR ADDITIONAL ± 550# EL AXIAL INTO TOP CHORD
2. ROOF DECK INSTALLATION MUST START AT UPPER LEFT CORNER. MEMBERS INDICATED IN KEYNOTE (3) ARE LOCATED AND NAILED TO ROOF DECK.
3. 2x6 CONT CROSS TIES ATTACHED TO DECK WITH 10d NAILS @ 6" OC RE: 1/S-301
4. TRUSS MANUFACTURER SHALL DESIGN TRUSS FOR ADDITIONAL ± 1700# EL AXIAL INTO TOP CHORD.



TYPICAL ROOF FRAMING PLAN A / S-101

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REVISIONS:

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STATE PERMIT SET	02/10/2021

DRAWN BY: DWG

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

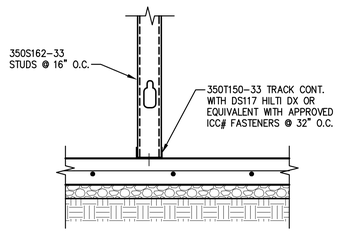
GARY MAEDA REGISTERED No.PE10810074 STATE OF INDIANA PROFESSIONAL ENGINEER 2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

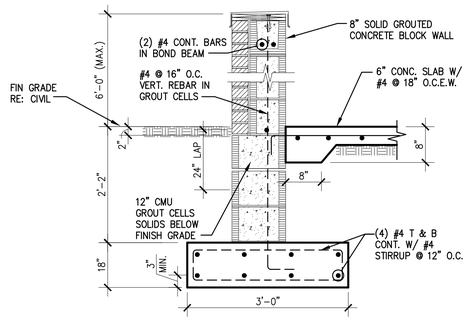
S-101
ROOF FRAMING PLAN

TRUE WARM & WELCOME 2300 R4



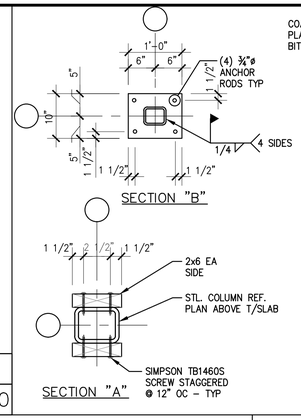
SLAB AT NON BEARING WALL | 14

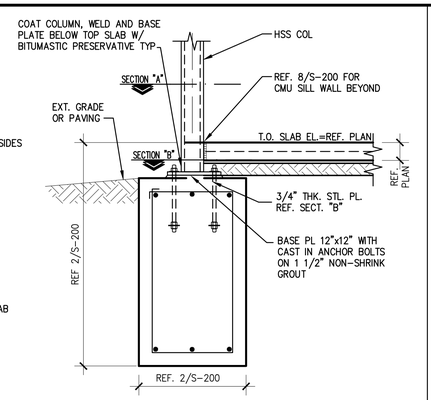
SCALE: N.T.S. | S-200



TRASH ENCLOSURE WALL | 11

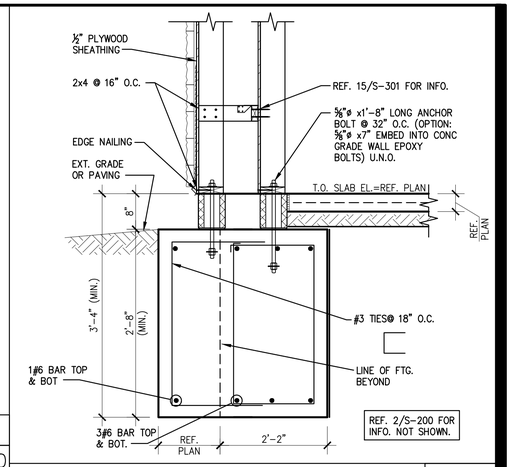
SCALE: ¾"=1'-0" | S-200





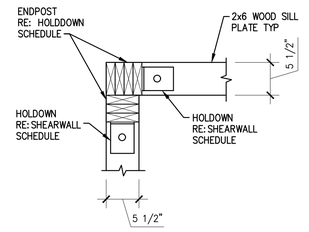
SECTION | 7

S-200



SECTION | 4

SCALE: ¾"=1'-0" | S-200



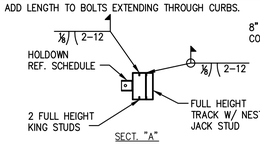
CORNER

CORNER HOLDOWN DETAIL | 13

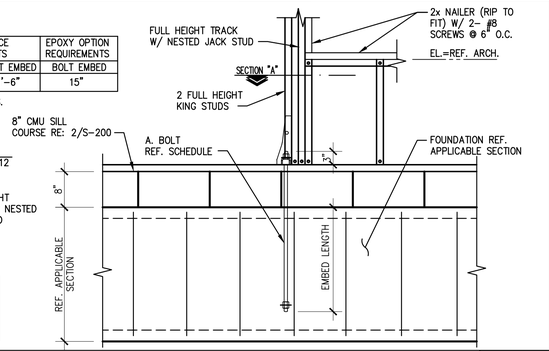
SCALE: ¾"=1'-0" | S-200

HOLDOWN	SCREW #	CAST IN PLACE REQUIREMENTS: ANCH. BOLT	CAST IN PLACE REQUIREMENTS: BOLT EMBED	EPOXY OPTION REQUIREMENTS: BOLT EMBED
S/HDU4	6- #14 SCREWS	⅝"ø	1'-6"	15"

NOTE: ADD LENGTH TO BOLTS EXTENDING THROUGH CURBS.

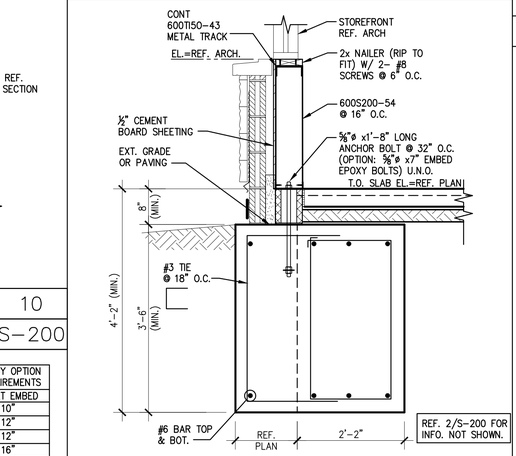


NOTE: EPOXY OPTION IS BASED ON SIMPSON SET-XP DESIGN VALUES. EPOXY SUBSTITUTIONS MUST BE APPROVED BY STRUCTURAL ENGINEER OF RECORD BEFORE PLACEMENT.



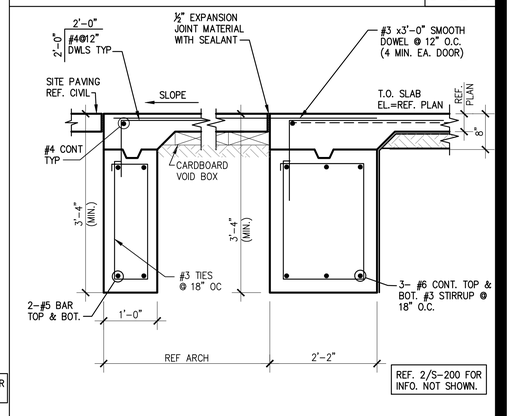
TYPICAL HOLDOWN DETAIL- LIGHT GAGE | 10

SCALE: ¾"=1'-0" | S-200



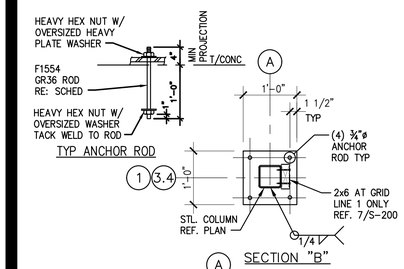
SECTION | 6

SCALE: ¾"=1'-0" | S-200

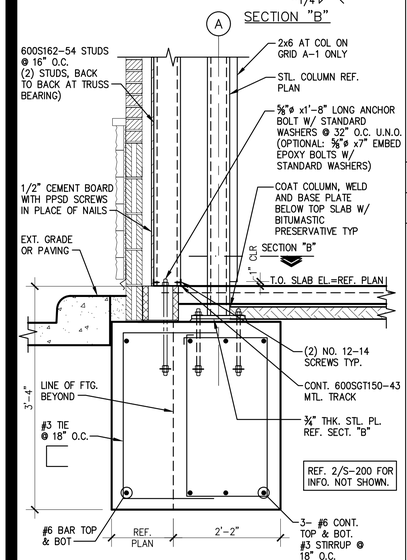


SECTION | 3

SCALE: ¾"=1'-0" | S-200



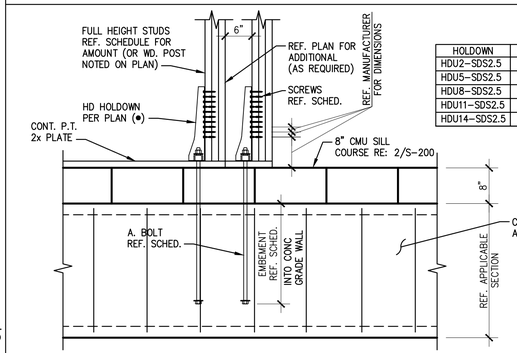
TYP ANCHOR ROD



SECTION @ CORNER COLUMN | 12

SCALE: ¾"=1'-0" | S-200

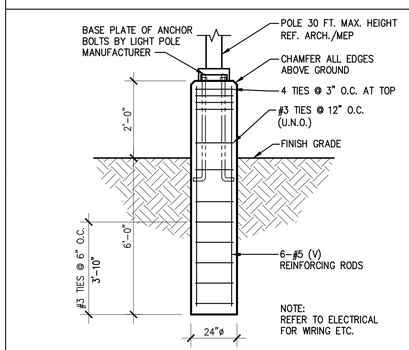
HOLDOWN	STUDS	SCREW #	CAST IN PLACE REQUIREMENTS: ANCH. BOLT	CAST IN PLACE REQUIREMENTS: BOLT EMBED	EPOXY OPTION REQUIREMENTS: BOLT EMBED
HDU2-SDS2.5	3	6- SDS ¼"x2½"	⅝"ø	1'-6"	10"
HDU5-SDS2.5	3	14- SDS ¼"x2½"	⅝"ø	1'-6"	12"
HDU8-SDS2.5	3	20- SDS ¼"x2½"	⅞"ø	1'-6"	12"
HDU11-SDS2.5	4	30- SDS ¼"x2½"	1"ø	2'-0"	16"
HDU14-SDS2.5	4	36- SDS ¼"x2½"	1"ø	2'-0"	20"



NOTE: EPOXY OPTION IS BASED ON SIMPSON SET-XP DESIGN VALUES. EPOXY SUBSTITUTIONS MUST BE APPROVED BY STRUCTURAL ENGINEER OF RECORD BEFORE PLACEMENT.

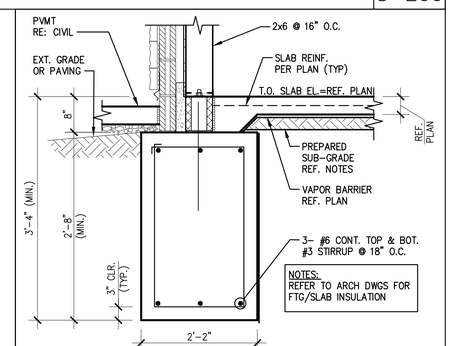
TYPICAL HOLDOWN DETAIL- WOOD | 9

SCALE: N.T.S. | S-200



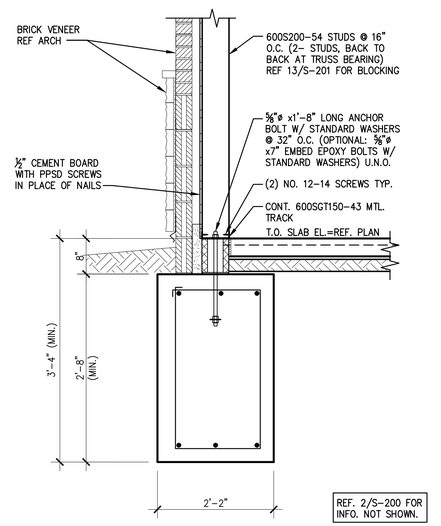
TYPICAL LIGHT POLE SECTION | 15

SCALE: ¾"=1'-0" | S-200



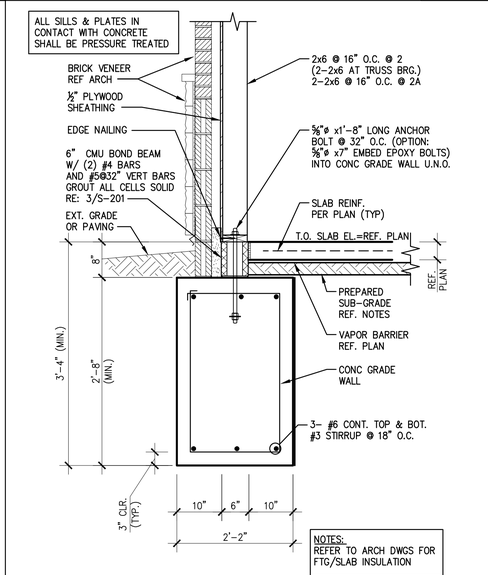
SECTION | 8

SCALE: ¾"=1'-0" | S-200



SECTION @ BRICK EXTERIOR WALL | 5

SCALE: ¾"=1'-0" | S-200



SECTION @ BRICK EXTERIOR WALL | 2, 2A

SCALE: ¾"=1'-0" | S-200

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91770
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DRAWN BY: D. GRIFFIN

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

GARY MAEDL REGISTERED No.PE10810074 STATE OF INDIANA PROFESSIONAL ENGINEER 2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
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1395 N. GREEN STREET
BROWNSBURG, IN 46112

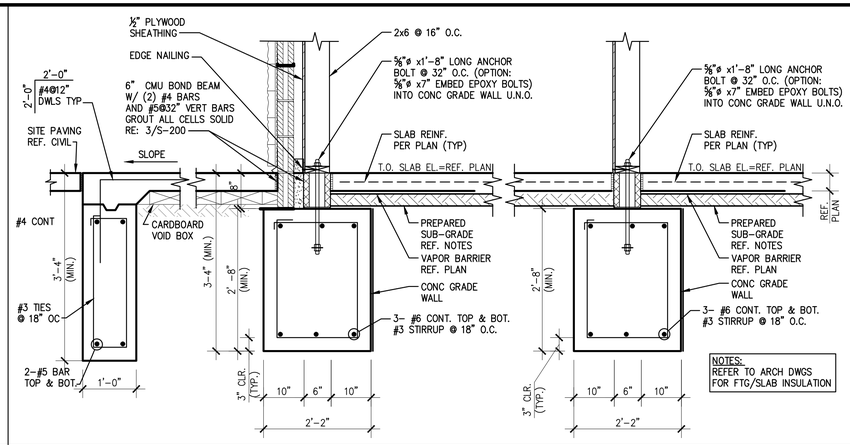
S-200

FOUNDATION DETAILS

TRUE WARM & WELCOME 2300 R4

NOT USED 19

SCALE: ¾"=1'-0" S-201



SECTION 12

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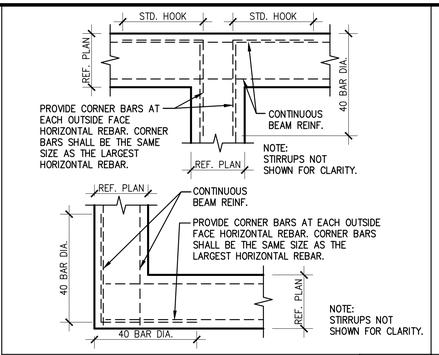
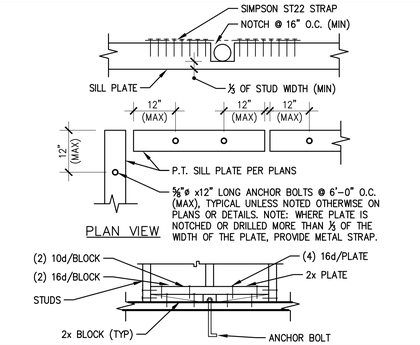


TYPICAL CORNER BAR 8

SCALE: N.T.S. S-201



TYPICAL SILL PLATE BOLTS 4

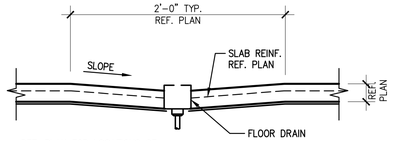
SCALE: N.T.S. S-201

NOT USED 18

SCALE: ¾"=1'-0" S-201

NOT USED 15

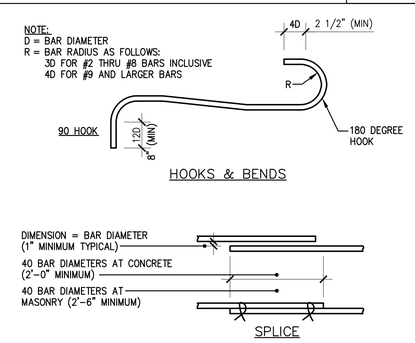
SCALE: ¾"=1'-0" S-201



REF. PLAN FOR LOCATIONS OF FLOOR DRAIN. SEE KITCHEN DRAWINGS FOR DIMENSIONS.

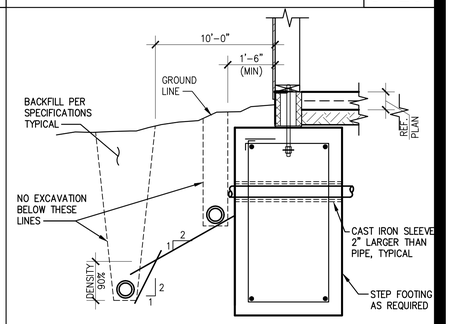
TYPICAL FLOOR DRAIN 11

SCALE: N.T.S. S-201



TYPICAL REINFORCING BAR 7

SCALE: N.T.S. S-201



NOTE: FOR PIPES MORE THAN 3'-0" BELOW BOTTOM OF FOOTINGS, TRENCH MAY BE BACKFILLED WITH COMPACTED FILL PER SPECIFICATIONS. DO NOT TRENCH.

TYPICAL PIPE & TRENCH DETAIL 3

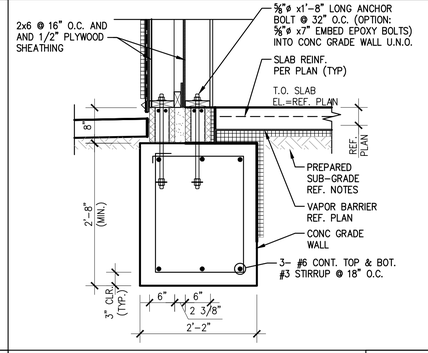
SCALE: N.T.S. S-201

NOT USED 17

SCALE: ¾"=1'-0" S-201

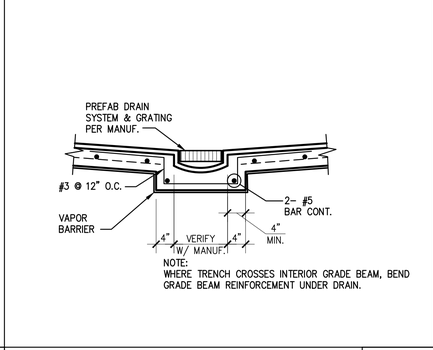
SECTION 14

SCALE: ¾"=1'-0" S-201



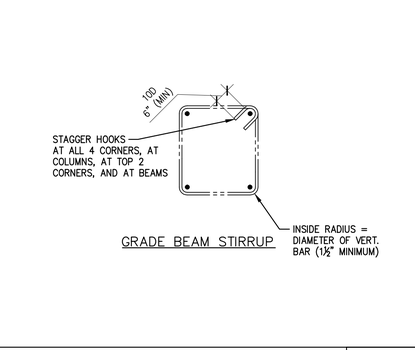
TYPICAL TRENCH DRAIN 10

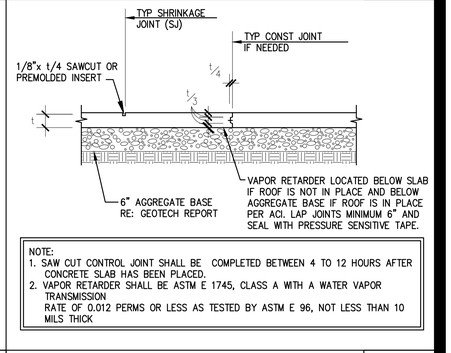
SCALE: ¾"=1'-0" S-201



TYPICAL TIES & STIRRUPS 6

SCALE: N.T.S. S-201





NOTE:
1. SAW CUT CONTROL JOINT SHALL BE COMPLETED BETWEEN 4 TO 12 HOURS AFTER CONCRETE SLAB HAS BEEN PLACED.
2. VAPOR RETARDER SHALL BE ASTM E 1745, CLASS A WITH A WATER VAPOR TRANSMISSION RATE OF 0.012 PERMS OR LESS AS TESTED BY ASTM E 96, NOT LESS THAN 10 MILS THICK

TYPICAL JOINT DETAIL 2

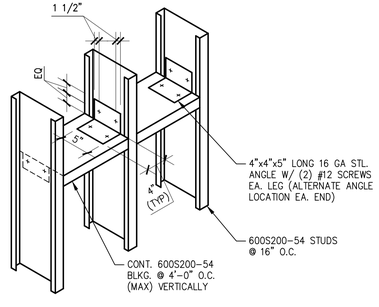
SCALE: ¾"=1'-0" S-201

NOT USED 16

SCALE: ¾"=1'-0" S-201

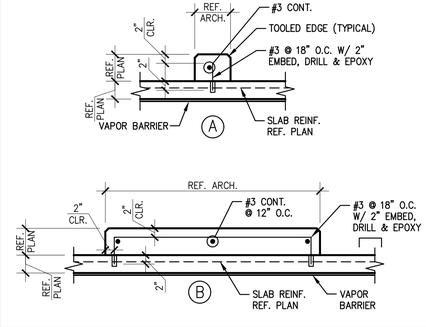
TYPICAL METAL STUD BLOCKING 13

S-201



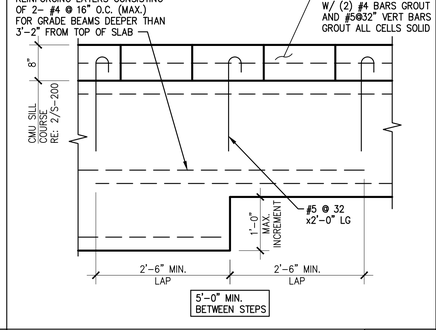
TYPICAL CURB 9

SCALE: ¾"=1'-0" S-201



TYPICAL STEP FOOTING 5

SCALE: N.T.S. S-201



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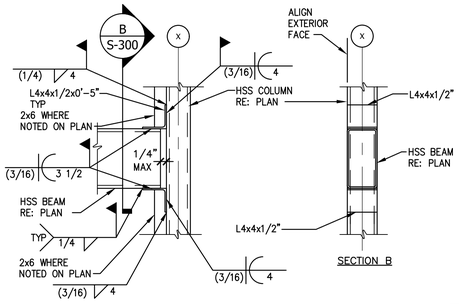
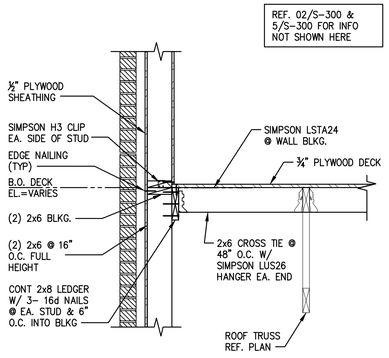


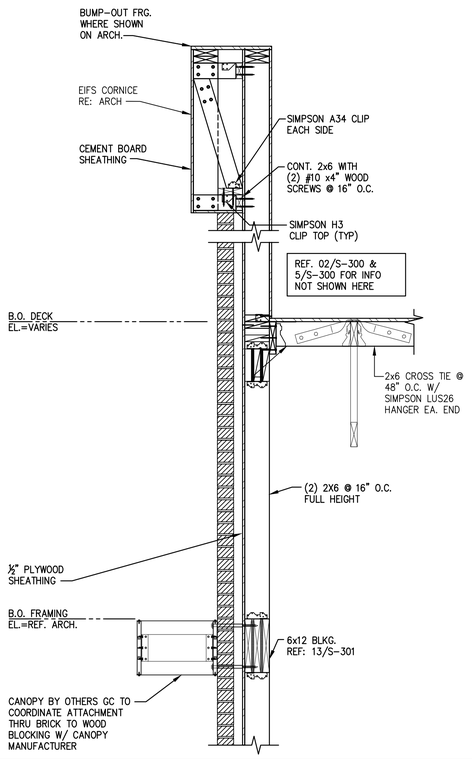
HSS BEAM TO COLUMN CONN | 16

SCALE: 1"=1'-0" | S-300



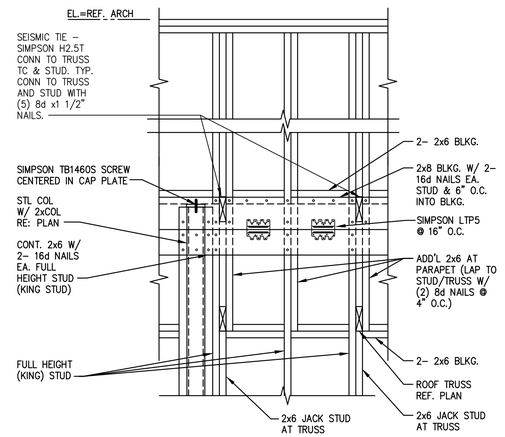
SECTION | 11

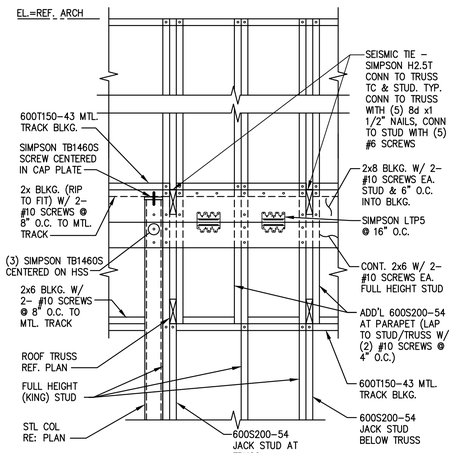
SCALE: ¾"=1'-0" | S-300



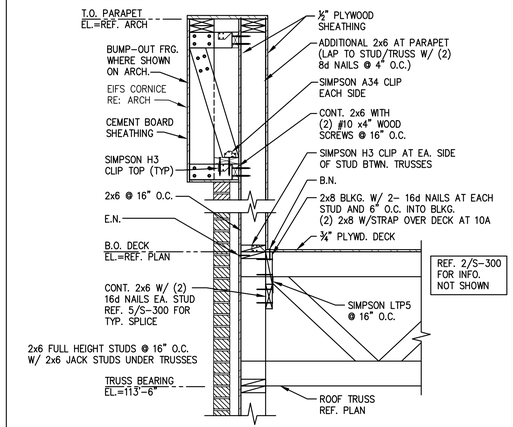
SECTION | 7

SCALE: ¾"=1'-0" | S-300



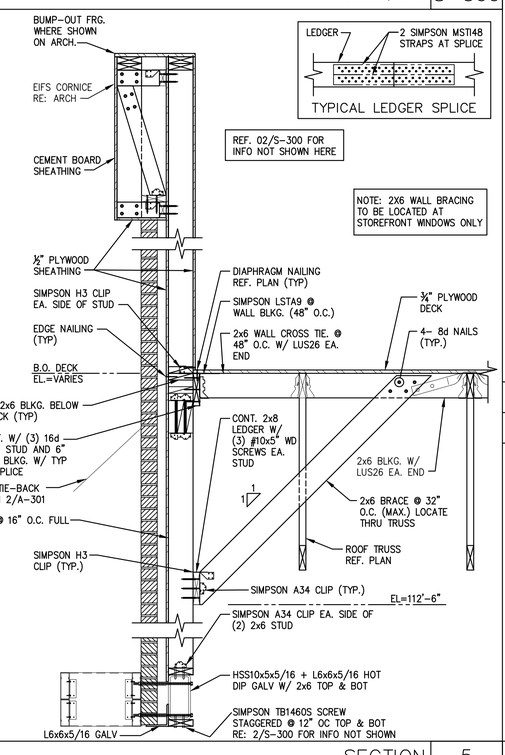


SECT."B"



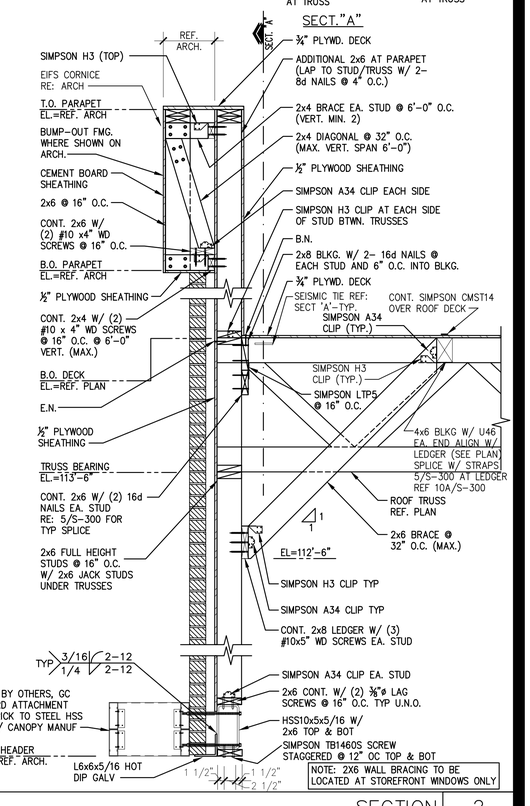
SECTION | 10,10A

SCALE: ¾"=1'-0" | S-300



SECTION | 5

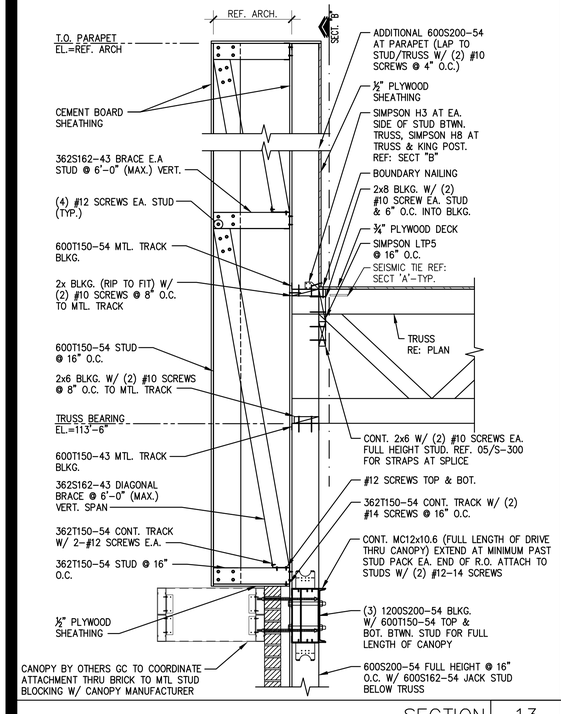
SCALE: ½"=1'-0" | S-300



SECTION | 2

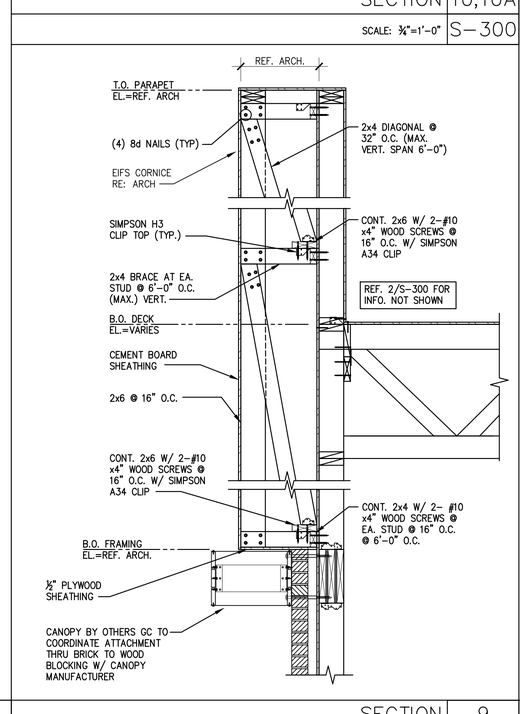
SCALE: ¾"=1'-0" | S-300

NOTE: TYPICAL TO ALL SECTIONS. REFER TO 13, 14, 15/S-301 AND 15A/S-301 SIMPSON A34 CLIP (2) 2x6 STUD AWNING BLOCKING REQUIREMENTS AS APPLICABLE. REFER TO PLAN.



SECTION | 13

SCALE: ¾"=1'-0" | S-300



SECTION | 9

SCALE: ¾"=1'-0" | S-300

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ISSUE DATE:

STATE PERMIT SET	02/10/2021

DRAWN BY: D. GRIFFIN

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

GARY MAEDA REGISTERED No.PE10810074 STATE OF INDIANA PROFESSIONAL ENGINEER 1-10-21

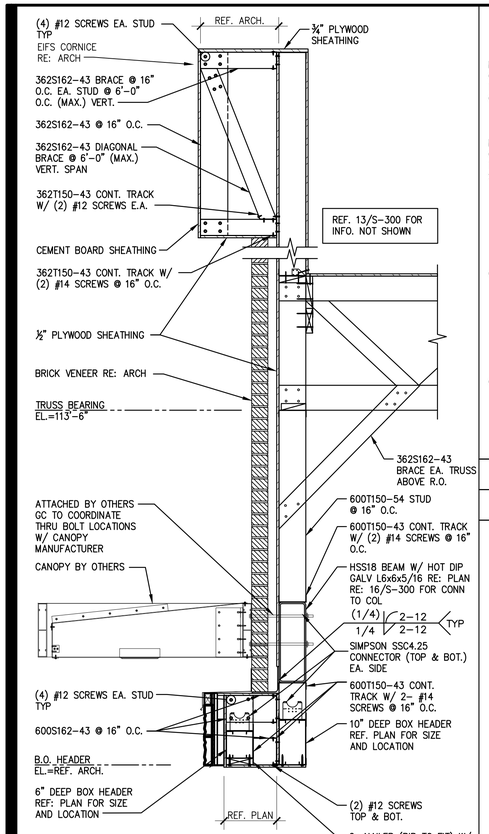
NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

S-300

FRAMING SECTIONS



SECTION 20

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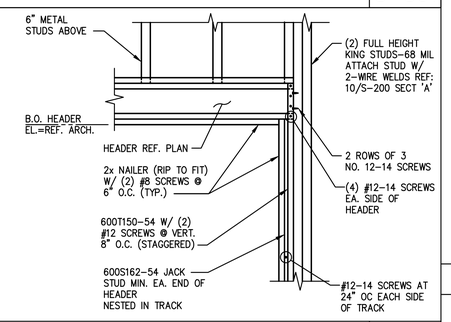

LIGHT GAGE HDR. FRAMING 19

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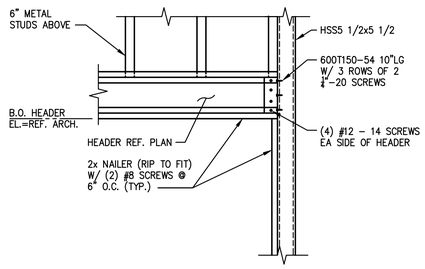

TYP. LIGHT GAGE HDR. FRAMING 18

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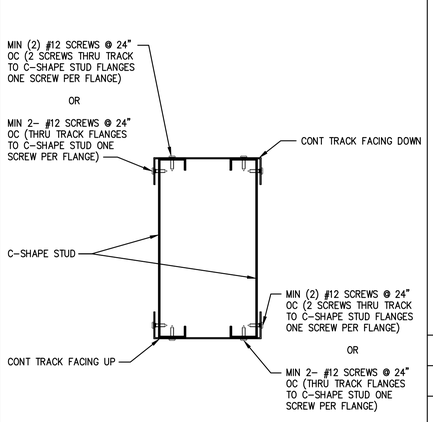

LIGHT GAGE BOX BEAM HEADER 17

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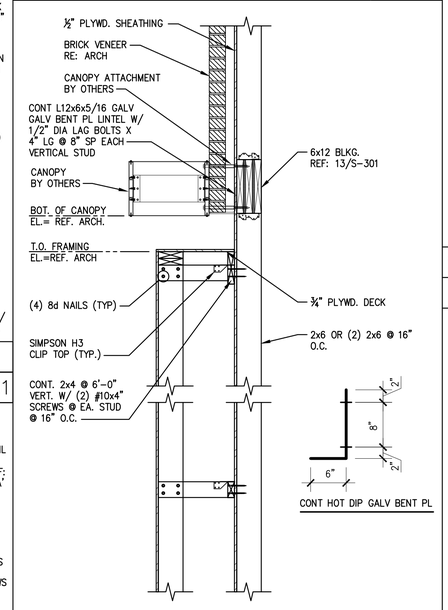

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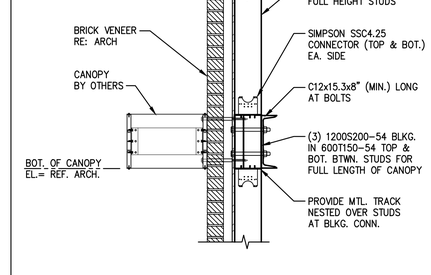

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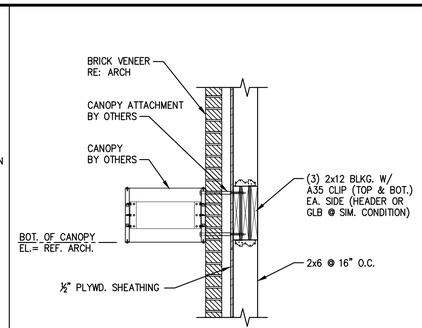

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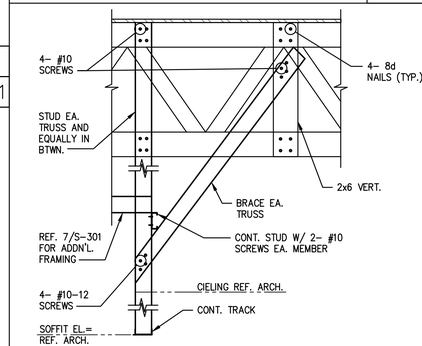

SOFFIT DETAIL @ SERV. COUNTER 12

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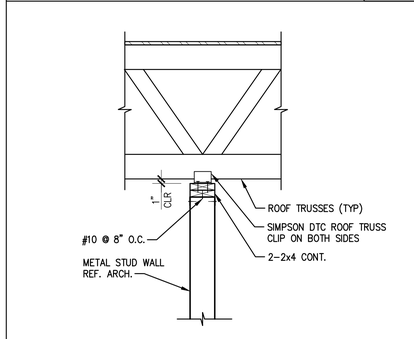

SUPPORT PERPENDICULAR TO TRUSS 11

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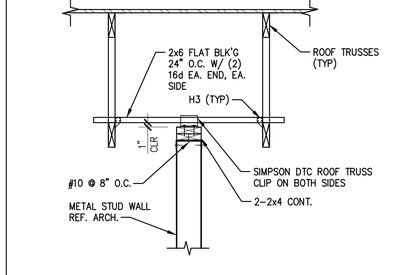

SUPPORT PARALLEL TO TRUSS 10

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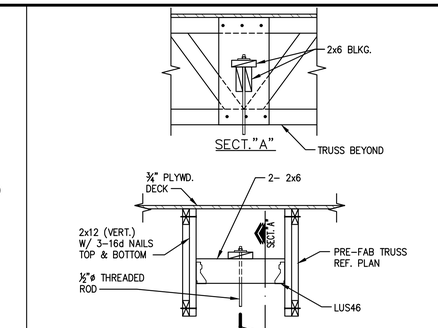

TYPICAL HANGER SUPPORT 9

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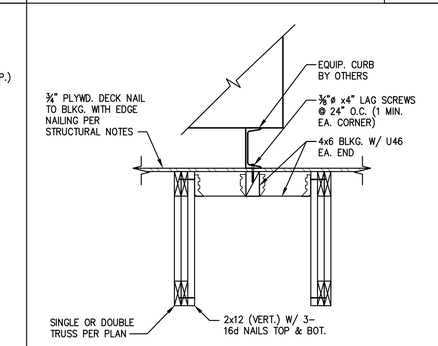
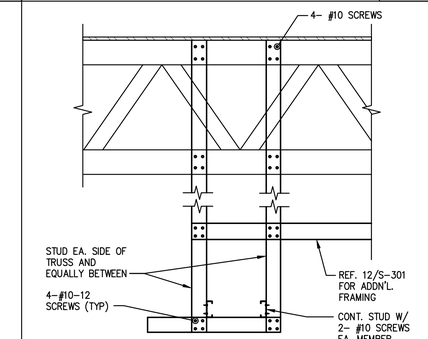


TYP. MECHANICAL SUPPORT UNIT 8

SCALE: ¾"=1'-0" S-301

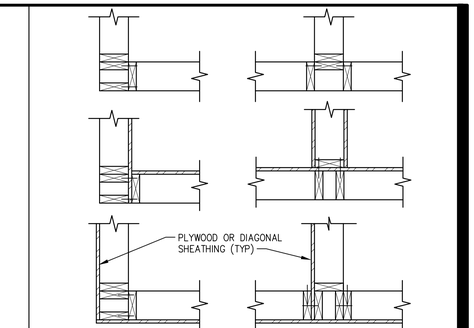


SOFFIT DETAIL @ SERV. COUNTER 7

SCALE: ¾"=1'-0" S-301

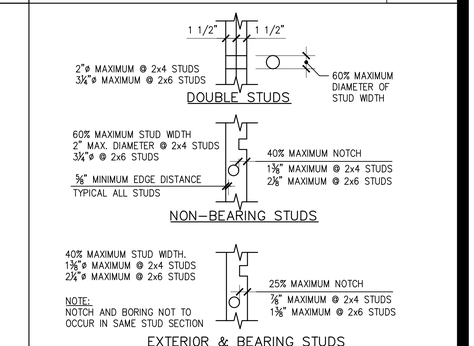
TYPICAL BRIDGING AND BRACING 6

SCALE: ¾"=1'-0" S-301



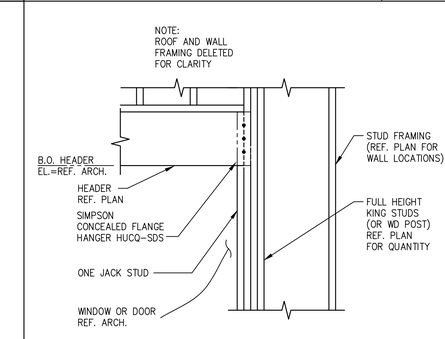
TYPICAL WALL FRAMING 4

SCALE: ¾"=1'-0" S-301



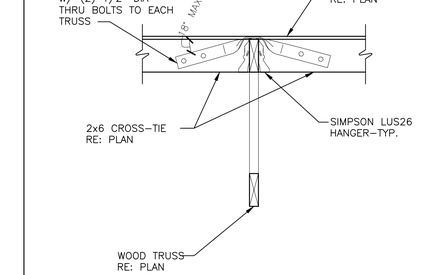
TYPICAL FRAMING NOTCHES 3

SCALE: N.T.S. S-301



TYPICAL WOOD HEADER FRAMING 2

SCALE: ¾"=1'-0" S-301



TYP SECTION AT CROSS TIES 1

SCALE: ¾"=1'-0" S-301

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NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
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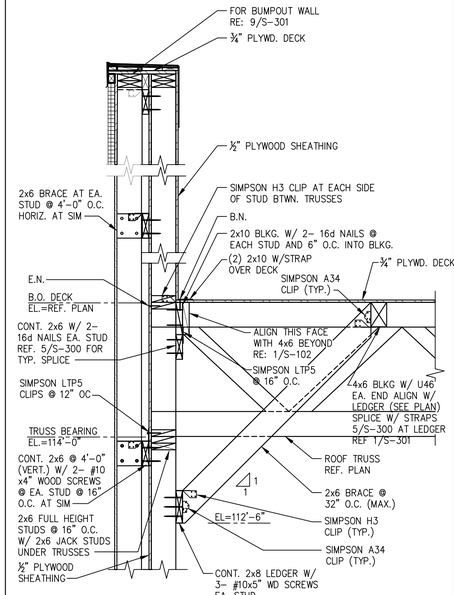
BROWNSBURG, IN 46112

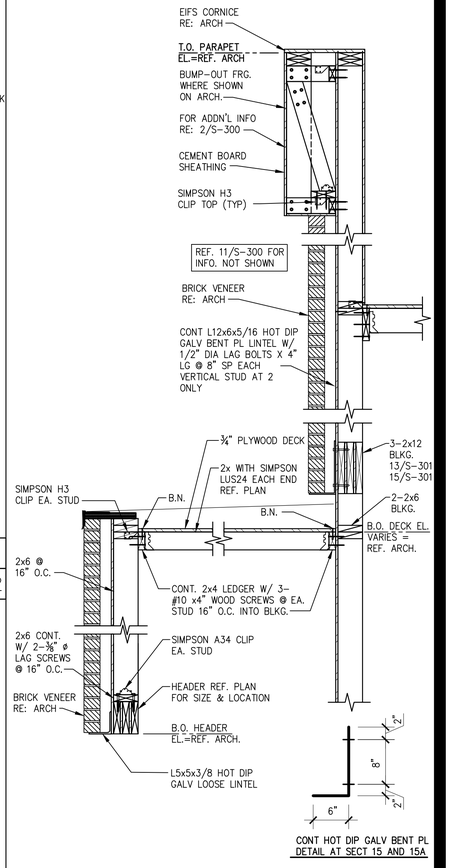
S-301

TYPICAL FRAMING DETAILS & SECTIONS

TRUE WARM & WELCOME 2300 R4



SECTION 4
SCALE: ¾"=1'-0" S-302



SECTION 2
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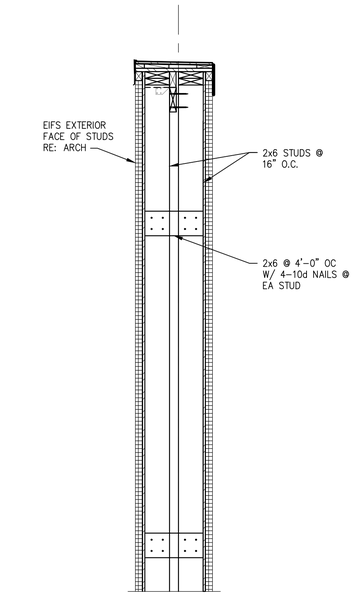

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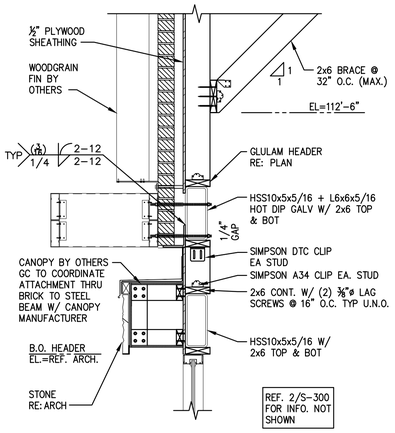

SECTION 3
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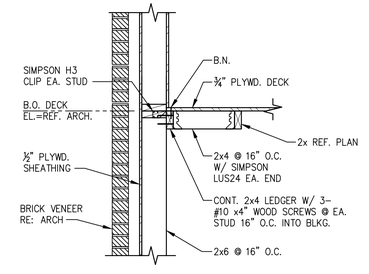

SECTION 1
SCALE: ¾"=1'-0" S-302

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S-302

TYPICAL FRAMING DETAILS & SECTIONS

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 SUMNER OR EQUIVALENT PIPE HANGING SYSTEM IN 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

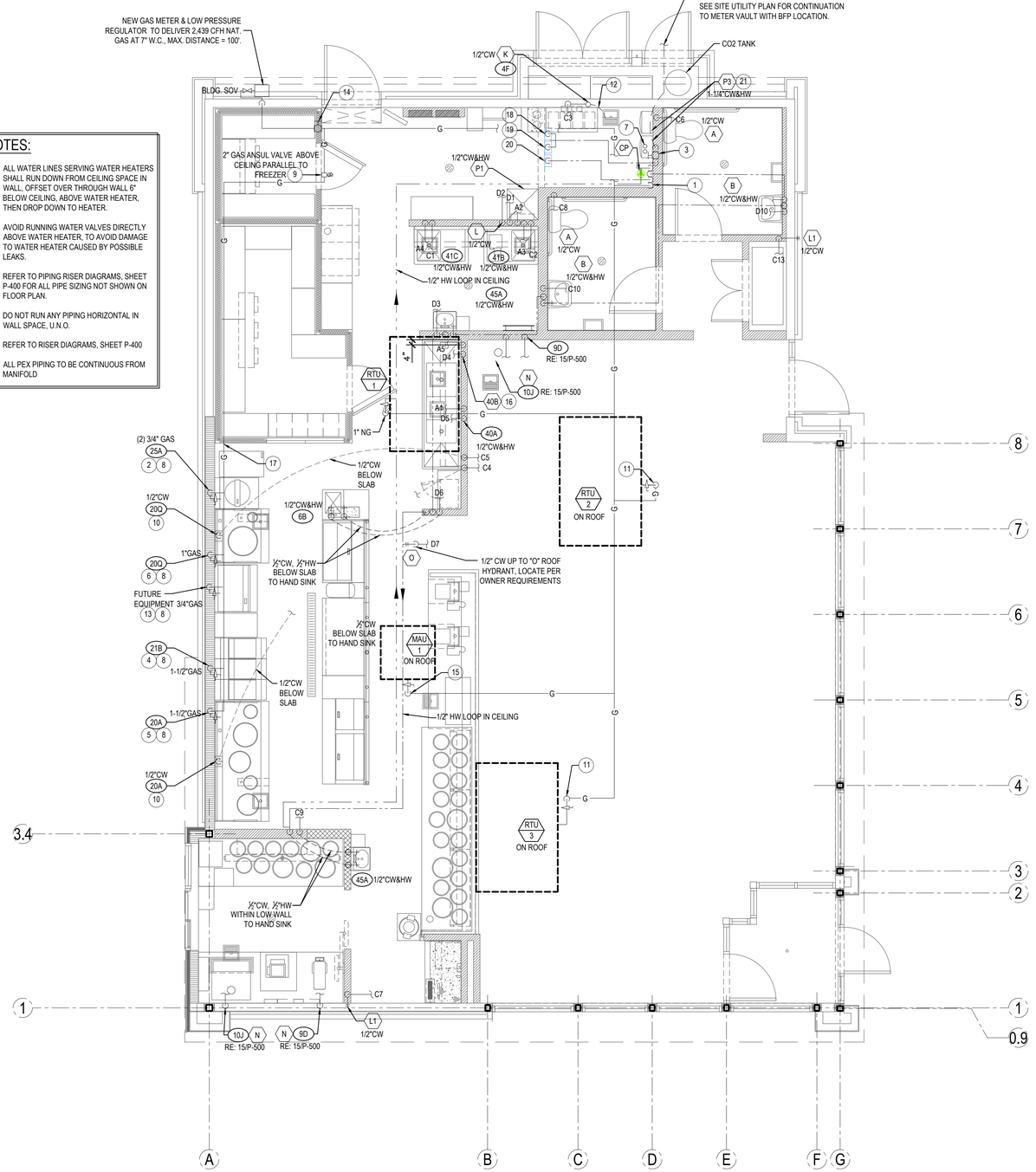
1. 1-1/4"G DOWN TO WATER HEATER W/ SOV (SHUT OFF VALVE).
2. ¾" G DOWN TO RICE COOKER W/ SOV. PROVIDE 6" LENGTH OF RIGID PIPE BETWEEN RICE COOKER AND FLEXIBLE GAS LINE.
3. CW SHUT OFF BALL VALVE LOCATED WITHIN WALL AT 24" AFF. REFER TO DETAIL #5 ON SHEET P-400 FOR ACCESS PANEL DETAIL.
4. 1½" G DOWN TO 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. WATER PIPE UP IN CURB. VALVE AND CAP.
11. 1 1/4" G UP TO ROOF W/ SOV. FOR ROOFTOP UNITS.
12. ¾" 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 FUTURE 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 CHEMCAL 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

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

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



WATER & GAS PLAN 1
Scale:1/4"=1'-0" P-100

PANDA EXPRESS, INC.
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91770
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REVISIONS:

ISSUE DATE:

STATE PERMIT SET	02/10/2021

DRAWN BY:

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

HENRY DONOVAN MONTAGUE REGISTERED No. 11400578 STATE OF INDIANA PROFESSIONAL ENGINEER
02/10/2021

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

P-100
WATER & GAS PLAN

TRUE WARM & WELCOME 2300 R4

PLUMBING FIXTURE SCHEDULE

A — TANK WATER CLOSET (HANDICAPPED): AMERICAN STANDARD 2467.016, FLUSH TANK WITH TRIP LEVER ON OPEN SIDE OF TOILET. FLOOR MOUNTED. STANDARD WHITE FINISHED. ELONGATED FRONT BOWL. PRESSURE ASSISTED 1.6 GPF. RIM 16 1/2" A.F.F. AM. STD 4142.600 TANK COVER LOCKING DEVICE
AM. STD. 5901.100.020 OPEN FRONT SEAT LESS COVER.

B — LAVATORY: ZURN MODEL ZS344, 20"x18" WALL HUNG LAVATORY, VITREOUS CHINA, WITH 4" CENTER FAUCET HOLES & ZURN Z-1231 CONCEALED ARM CARRIER.
FAUCET: TOTO TEL101 -D10ET STANDARD ECOPOWER FAUCET. SENSOR, 1.0 GPM, 0.18gpc. 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: ZURN OR EQUAL, GMC 1000,1000 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.

N — PROVIDE WATTS SD-3 DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER AFTER EACH BV.

O — FREEZE PROOF ROOF HYDRANT: WOODFORD 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 ½" CW HOSE BIBB, ACORN #8121 W/ VACUUM BREAKER, 48" A.F.F. FOR CHEMICAL CONNECTION.

P3 — TANKLESS GAS WATER HEATER SYSTEM. MFG: RINNAI MTO-00247(2 CU199)). 398,000 BTU/HR GAS INPUT. 7.7 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.
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.

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.

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, ½ TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX 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.

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 / 20B — 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 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' 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

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. 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.

41B / 41C — SINGLE BOWL PREP SINK: PROVIDE ½" CW AND ½" HW AT 14" AFF AND 8" OC WITH BVS. CONNECT TO OWNER SUPPLIED FAUCETS WITH COPPER PIPING. 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.

45A / 6B — HAND SINK, PROVIDE ½" CW AND ½" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED, ½ TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX PIPING. 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.

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 RDL & 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.

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	1	___	___	3	3
L L1	HOSE BIBB	3	4	12	___	___
M	TRENCH DRAIN 3" TRAP	1	___	___	5	5
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	1	2	2	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
TOTAL				54		98

FIXTURE UNIT SUMMARY

SERVICE	TOTAL F.U.
DOMESTIC WATER	54
SANITARY SEWER	98

SERVICE REQUIREMENTS

SERVICE	SIZE MAIN		CAPACITY	
DOMESTIC WATER	1-1/2	INCH	32	GPM
SANITARY SEWER	4	INCH	98	F.U.
FUEL GAS	3	INCH	2775	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

FIXTURE	QTY.	FU	FU TOTAL
FLOOR DRAIN/FLOOR SINK 3" TRAP	8	5	40
TRENCH DRAIN 3" TRAP	1	5	5
MOP SINK	1	2	2
TOTAL			47 (24 GPM)

FIXTURE UNIT VALUE BASED ON IPC, SECTION 709

FLOW THROUGH TYPE GREASE INTERCEPTOR MINIMUM SIZE WILL BE 50 POUND GREASE CAPACITY PER IPC, TABLE 1003.34.1.

GRAVITY TYPE GREASE INTERCEPTOR SIZE BASED ON 24 GPM WITH 30 MINUTE RETENTION TIME (24*30=720) TO BE SIZED AT 1000 GALLONS.

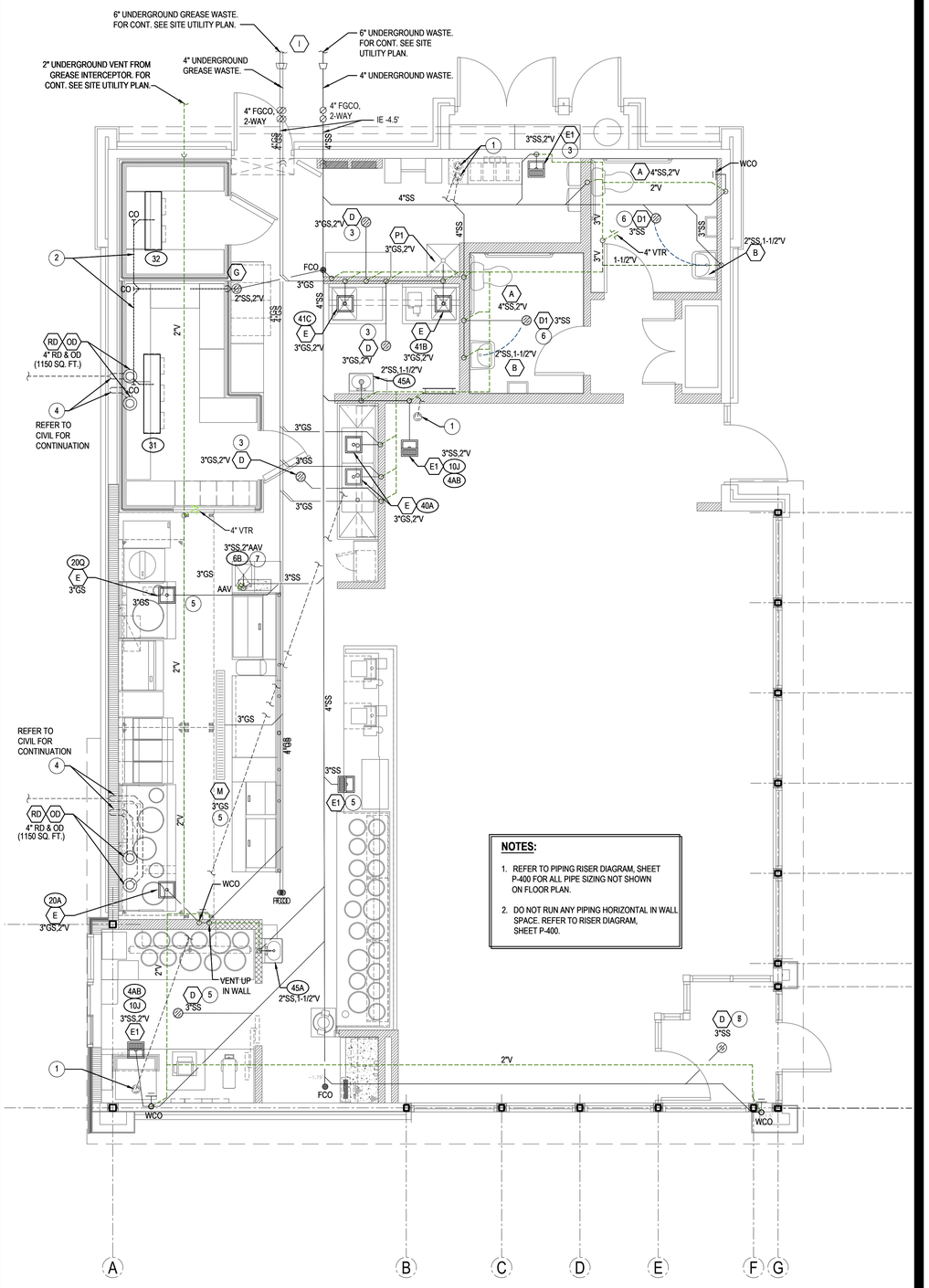
FIXTURE BRANCH SCHEDULE

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"

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.



WASTE & VENT PLAN 1
Scale:1/4"=1'-0" P-101

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
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Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

	STATE PERMIT SET	02/10/2021

DRAWN BY:

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

HENRY DONOVAN MONTAGNE REGISTERED No. 11400578 STATE OF INDIANA PROFESSIONAL ENGINEER
02/10/2021

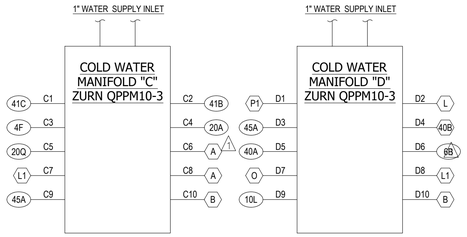
NORR ARCHITECTS ENGINEERS PLANNERS

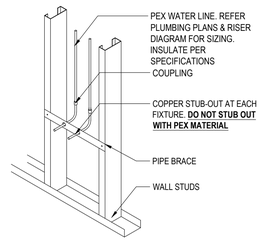
PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

P-101
WASTE & VENT PLAN

TRUE WARM & WELCOME 2300 R4

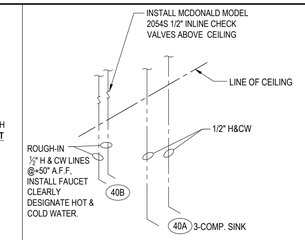
NOTE:
INCLUDE OPTIONAL ½" SWIVELS &
½" BALL VALVES ON MANIFOLDS





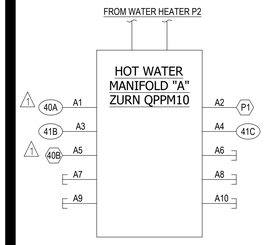
PEX STUB OUT DIAGRAM

NOTE:
PROPERLY STRAP LINES AND PROVIDE PROTECTIVE GROMMETS WHEN RUNNING THROUGH METAL STUDS

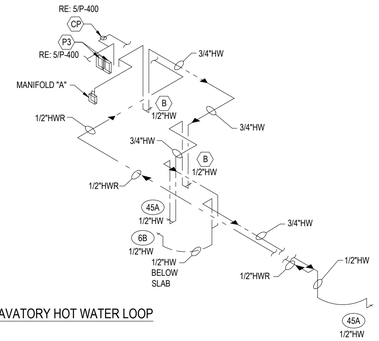


CHEMICAL FEED SYSTEM PIPING DIAGRAM

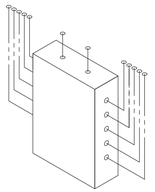
NOTE:
G.C. SHALL VERIFY WITH LOCAL JURISDICTION ON REQUIRED METHOD OF CHEMICAL SYSTEM INSTALLATION AS SHOWN ABOVE. IF THE ABOVE DETAIL IS NOT ALLOWED BY LOCAL JURISDICTION, THEN THE SYSTEM SHALL BE INSTALLED IN-LINE/INTERGRATED INTO 3 COMPARTMENT SINK.



NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE UNLESS NOTED OTHERWISE.



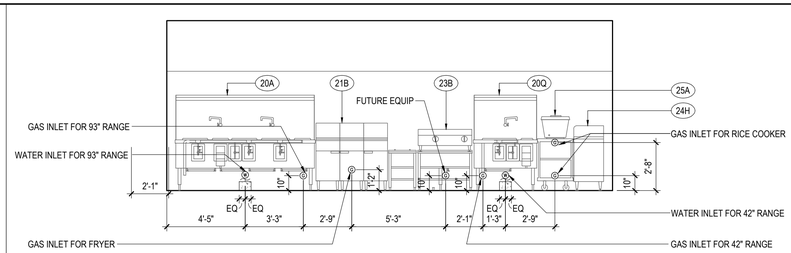
HAND SINK/LAVATORY HOT WATER LOOP



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.

WATER RISER DIAGRAM | 11
NO SCALE | P-400



GAS COOKLINE ELEVATION | 4
NO SCALE | P-400

GAS EQUIPMENT SCHEDULE

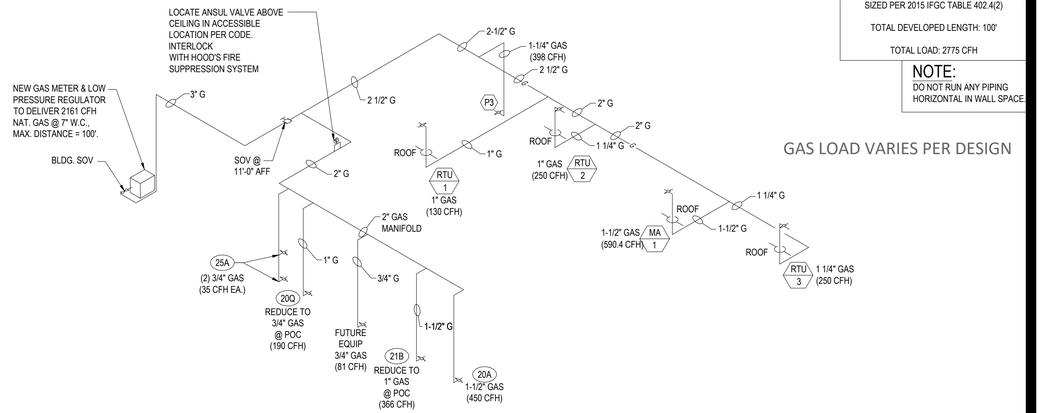
ITEM	QTY	EQUIPMENT	MBH EACH	CFH EACH	CFH TOTAL
P3	1	WATER HEATER	199	199	398
20A	1	CHINESE RANGE	450	450	450
20Q	1	CHINESE RANGE	190	190	190
21G	3	DEEP FRYER	122	122	366
FUTURE EQUIP	1	-	81	81	81
25A	2	RICE COOKER	35	35	70
RTU-1	1	AIR CONDITIONER	130	130	130
RTU-2,3	2	AIR CONDITIONER	250	250	500
MAU-1	1	MAKE-UP AIR	590	590	590
TOTAL					2775

LOW PRESSURE NATURAL GAS CALCULATION:
SIZED PER 2015 IFGC TABLE 402.4(2)

TOTAL DEVELOPED LENGTH: 100'

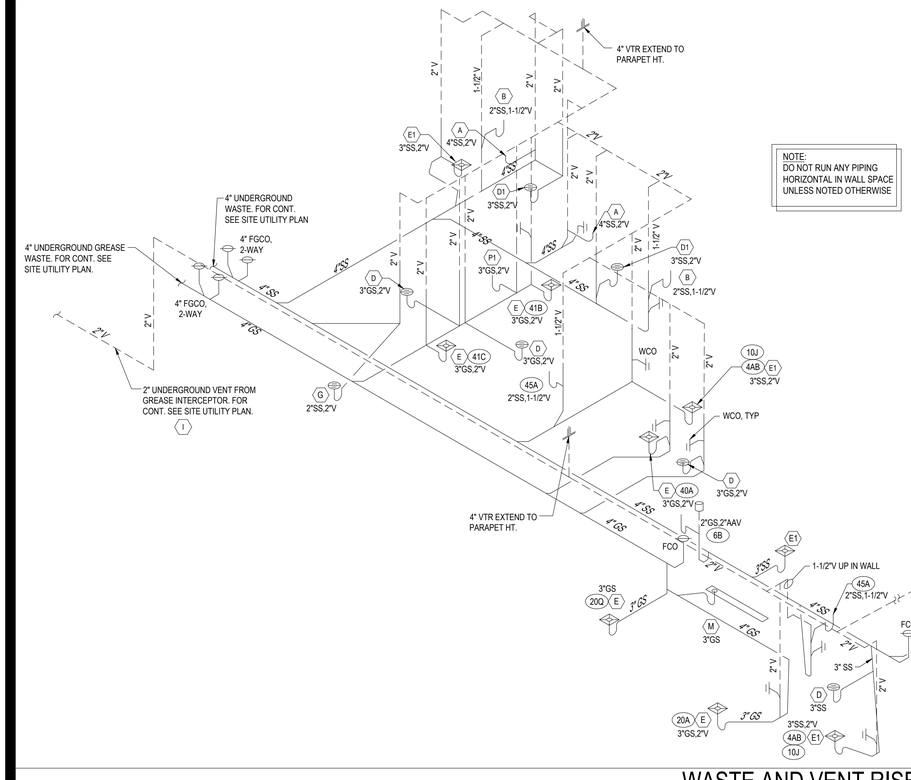
TOTAL LOAD: 2775 CFH

NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE



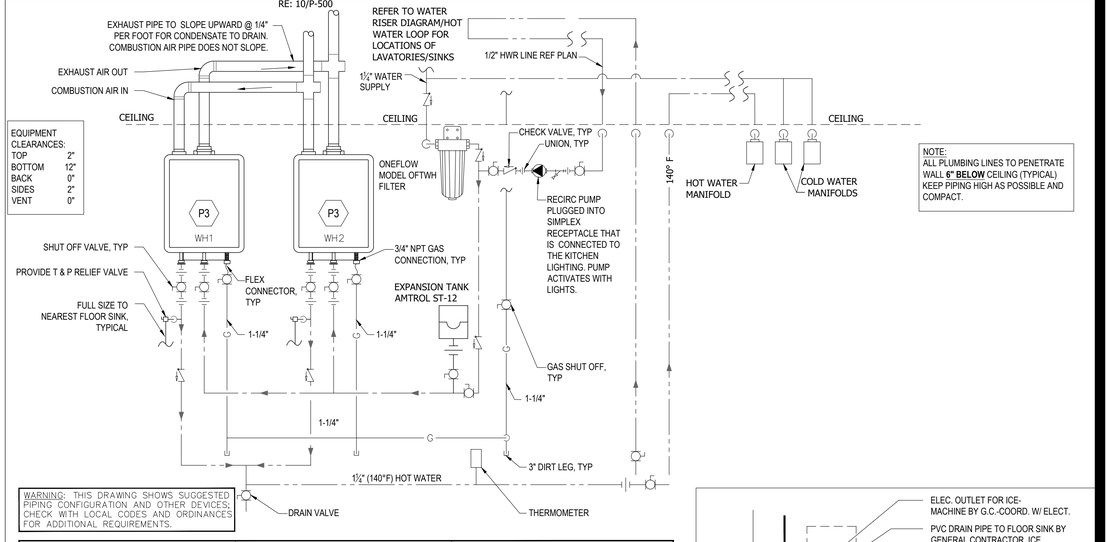
GAS LOAD VARIES PER DESIGN

GAS RISER DIAGRAM | 3
NO SCALE | P-400



NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE UNLESS NOTED OTHERWISE

WASTE AND VENT RISER DIAGRAM | 9
NO SCALE | P-400

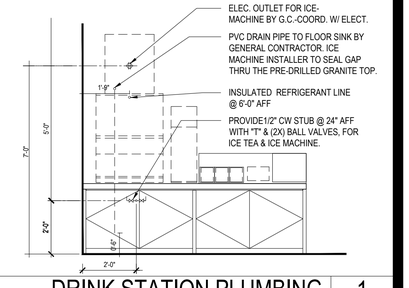


NOTE:
ALL PLUMBING LINES TO PENETRATE WALL **6" BELOW** CEILING (TYPICAL) KEEP PIPING HIGH AS POSSIBLE AND COMPACT.

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

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REVISIONS:

1	TWW_2300-2019_R2	9.23.19

ISSUE DATE:

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DRAWN BY:

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

HENRY DONOVAN MONTAGUE REGISTERED No. 11400578 STATE OF INDIANA PROFESSIONAL ENGINEER
02/10/2021

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

P-400

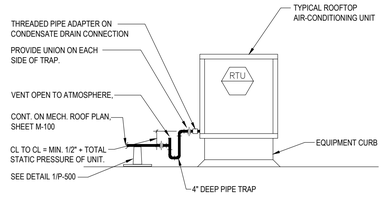
WATER, GAS, WASTE & VENT RISER DIAGRAMS

NOT USED 19

Scale: NO SCALE P-500

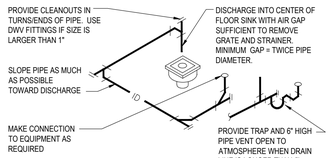
A.C. UNIT CONDENSATE DRAIN 16

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.



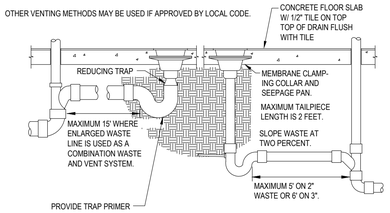
NOTE:
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. DO NOT PROVIDE TRAP ON UNITS WHICH HAVE AN INTERNAL TRAP.
2. DRAIN LINES TO BE TYPE L COPPER.
3. FOR BLOW-THROUGH TYPE EQUIPMENT, ADJUST PTRAP DEPTH TO 1/2" PLUS TOTAL STATIC PRESSURE OF UNIT.

INDIRECT DRAIN 12



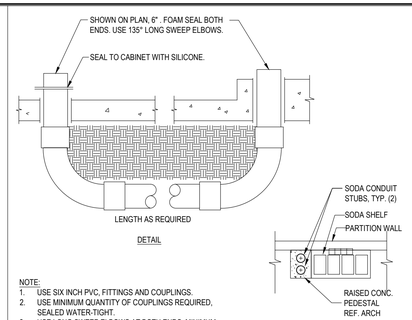
NOTE:
1. ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY.
2. HANG PIPE AS REQUIRED.
3. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

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.

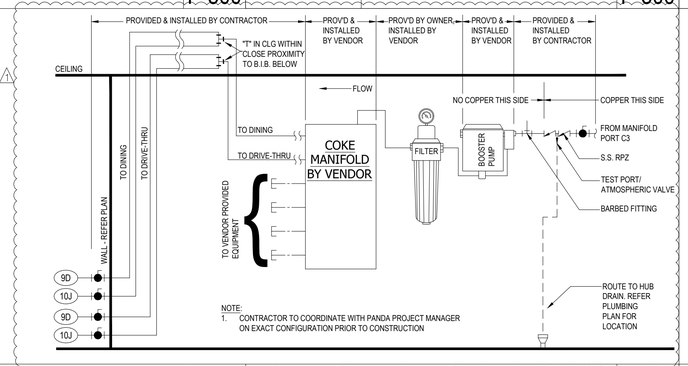
BELOW-GROUND SODA CONDUIT 4



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.

BAG-N-BOX DETAIL 15

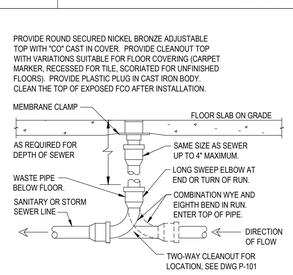
Scale: NO SCALE P-500



NOTE:
1. CONTRACTOR TO COORDINATE WITH PANDA PROJECT MANAGER ON EXACT CONFIGURATION PRIOR TO CONSTRUCTION

FLOOR CLEANOUT 11

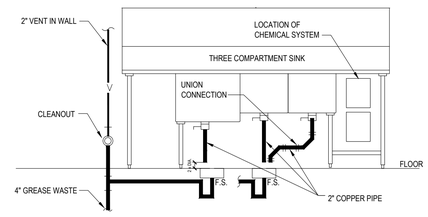
Scale: NO SCALE P-500



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.

UTILITY/SINK 7

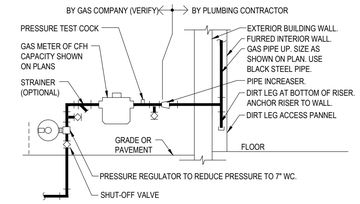
Scale: NO SCALE P-500



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.

GAS SERVICE 3

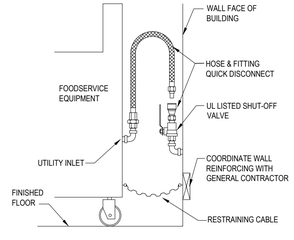
Scale: NO SCALE P-500



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.

QUICK DISCONNECT 18

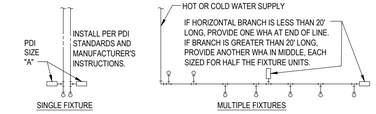
Scale: NO SCALE P-500



NOTE:
1. IF UTILITY IS NOT AT FULL HEIGHT SHOWN, PROVIDE PIPING WITH ELBOWS TO RAISE INLET

WATER HAMMER ARRESTERS 14

Scale: NO SCALE P-500



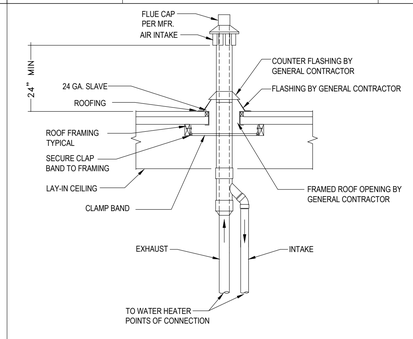
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

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 0-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.

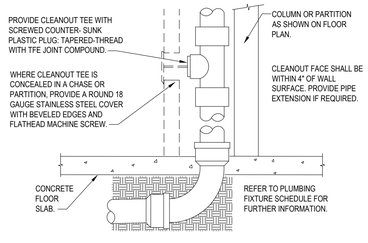
CONCENTRIC VENT DETAIL 10

Scale: NO SCALE P500



WALL CLEANOUT 6

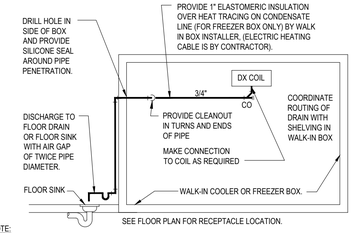
Scale: NO SCALE P-500



NOTE:
1. PROVIDE WCO WHERE SHOWN ON PLAN. LOCATE ABOVE FIXTURE FLOOD RIM .
2. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

WALK - IN BOX CONDENSATE DRAIN 2

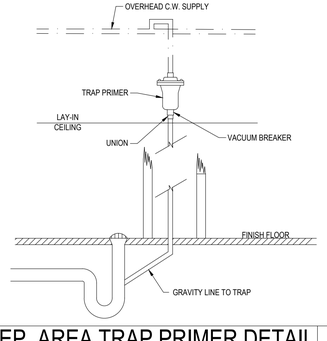
Scale: NO SCALE P-500



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.

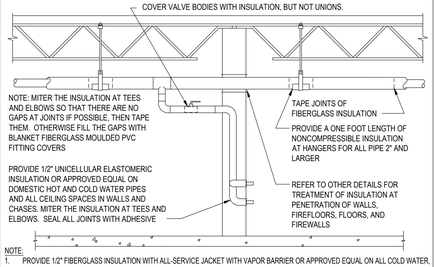
PREP. AREA TRAP PRIMER DETAIL 17

Scale: NO SCALE P-500



PIPE INSULATION 13

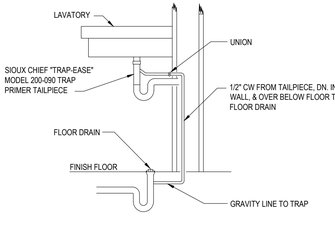
Scale: NO SCALE P-500



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.

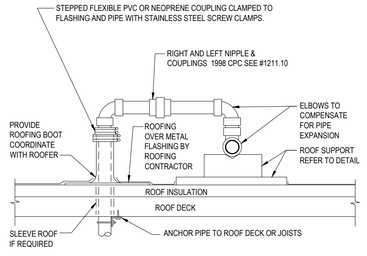
RESTROOM TRAP PRIMER DETAIL 9

Scale: NO SCALE P-500



GAS PIPE ROOF PENETRATION 5

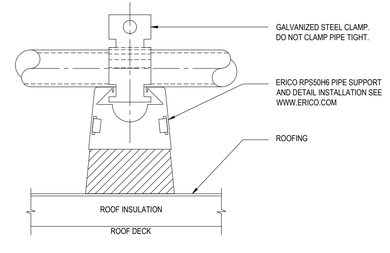
Scale: NO SCALE P-500



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.

ROOF PIPE SUPPORT 1

Scale: NO SCALE P-500



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.)

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REVISIONS:

1	TWW_2300-2019_ R2	06-28-19

ISSUE DATE:

STATE PERMIT SET	02/10/2021

DRAWN BY:

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

HENRY DONOVAN MONTAGUE REGISTERED No. 11400578 STATE OF INDIANA PROFESSIONAL ENGINEER
02/10/2021

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

P-500

PLUMBING DETAILS

PACKAGED ROOF TOP UNIT SCHEDULE

UNIT SYMBOL		RTU 1 (NEW)	RTU 2 (NEW)	RTU 3 (NEW)
LOCATION		ROOF	ROOF	ROOF
BLOWER	CFM	2,000 (5-TON)	4,000 (10-TON)	4,000 (10-TON)
	OUTSIDE AIR (CFM)	500	750	750
	TSP (IN W.G.)	0.6"	0.7"	0.7"
	BHP/HP	.67/1.0	1.90/2.75	1.90/2.75
COOLING	TOTAL (BTU/HR)	65,170	115,550	115,550
	SENSIBLE (BTU/HR)	47,670	93,240	93,240
	AMBIENT (F)	91.0	91.0	91.0
	COIL ENTERING	79.8 DB/67.0 WB	78.80 DB/66.30 WB	78.80 DB/66.30 WB
	COIL LEAVING	57.73 DB/56.64 WB	57.22 DB/56.83 WB	57.22 DB/56.83 WB
HEATING	CAPACITY (BTU/HR)	130,000 (INPUT) / 106,600 (OUTPUT)	250,000 (INPUT) / 200,000 (OUTPUT)	250,000 (INPUT) / 200,000 (OUTPUT)
	EAT/LAT	51.8/100.2	56.3/102.8	56.3/102.8
DEHUMID-IFICATION	HOT GAS REHEAT (MBH)	38.45	91.71	91.71
	COOING LDB/BDPT	75.45/55.96	78.35/56.59	78.35/56.59
	TEMP RISE (F)	17.72	21.13	21.13
	MOISTURE REMOVAL RATE (GPH)	1.98	2.76	2.76
ELECTRICAL	POWER SUPPLY	208V/3Ph/60HZ	208V/3Ph/60HZ	208V/3Ph/60HZ
	COMPRESSOR (RLA)	15.9	19.6/13.2	19.6/13.2
	CONDENSER MOTOR (FLA)	2.5	2.7	2.7
	EVAPORATOR MOTOR (FLA)	3.4	7.3	7.3
	MIN. CIRCUIT AMPACITY	26, HACR = 40	48, HACR = 60	48, HACR = 60
CONTACT: DEREK VAN RIPER PHONE: 714-983-0474 E-MAIL: DEREK.VANRIPER@TRANE.COM		BY TRANE YHC060 DOWN DISCHARGE COMPLETE WITH 24" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, HUMIDITY SENSOR, ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. COMB. FAN MOTOR 0.48 AMPS (DOES NOT OPERATE WITH COMPRESSOR). OPER. WT. : 999 LBS APPROX. SEER=NA EER=11.9, AFUE=81.7%	BY TRANE YHC120 DOWN DISCHARGE COMPLETE WITH 24" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, HUMIDITY SENSOR, ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. COMB. FAN MOTOR 0.48 AMPS (DOES NOT OPERATE WITH COMPRESSOR). OPER. WT. : 1608 LBS APPROX. SEER=15.2 EER=12.4, AFUE=80%	BY TRANE YHC120 DOWN DISCHARGE COMPLETE WITH 24" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, HUMIDITY SENSOR, ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. COMB. FAN MOTOR 0.48 AMPS (DOES NOT OPERATE WITH COMPRESSOR). OPER. WT. : 1608 LBS APPROX. SEER=15.2 EER=12.4, AFUE=80%

ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTACT TRANE REPRESENTATIVE ABOVE.
- THERMOSTATS: REMOTE SENSOR TYPE, 24/7 PROGRAMMABLE AND CAPABLE OF OPERATING ROOFTOP UNITS AND ACCESSORIES "TRANE" BAYSENS119A PROVIDE REMOTE SENSOR BAYSENS077A FOR EACH THERMOSTAT
- DUCT MOUNTED SMOKE DETECTORS: IONIZATION TYPE/UL LISTED, CSFM CERTIFIED, 24 VAC, BY EDWARDS, DH HOUSING WITH 1551F SENSOR. MECHANICAL CONTRACTOR SHALL ADDITIONALLY PROVIDE AND INSTALL ALL REMOTE RESETS, STROBES, AND ALARMS IF REQUIRED BY CODE & INSPECTOR.
CONTRACTOR TO PROVIDE NEW 2" PLEATED FILTERS AT TURNOVER.

NOTE:
1. 1.9 AMPS (5 TON) AND 3.8 AMPS (7.5 AND 10 TON) ECONOMIZER INCLUDED IN ELECTRICAL TOTAL MCA PER MANUFACTURER'S LITERATURE.
2. UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB.
3. FACTORY OPTIONS SHALL INCLUDE HAIL GUARD PROTECTION FOR ALL UNIT.
4. FACTORY OPTIONS SHALL INCLUDE FACTORY INSTALLED DISCONNECTS AND CONVENIENCE OUTLETS (FIELD POWERED REFER TO ELECTRICAL DRAWING).
5. PROVIDE THRU THE BASE ELECTRICAL CONNECTION KIT #CRBTMPWR002A01 FOR ALL UNITS.
6. PROVIDE ECONOMIZER FAULT DETECTION FOR ALL UNITS.

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 BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN
FAN ARRANGEMENT		UPBLAST	UPBLAST	DOWNBLAST
MIN. WHEEL DIAMETER		-	-	-
PERFORMANCE	C.F.M.	3,450	3,450	450
	T.S.P.	1.25"	1.25"	0.25"
	B.H.P.	1.38	1.38	0.085
	FAN R.P.M.	1223	1223	1128
MOTOR	MOTOR H.P.	2.0	2.0	0.25
	ELEC. CHARACTERISTICS	208V/3PH/60HZ	208V/3PH/60HZ	115V/1PH/60HZ
	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: EABDU18 WT. 222 LBS	CAPTIVEAIRE MODEL: EABDU18 WT. 222 LBS	CAPTIVEAIRE MODEL: EABDCR7 WT. 108 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: TRANE 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
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.

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	MIN CFM	CFM	ESP	MOTOR	REMARKS
MAU1	CAPTIVEAIRE EA3-G18	ROOF-TOP	KITCHEN HOOD #1 & #2	INPUT: 590,400 BTHU OUTPUT: 543,168	FIRE GAS HEATED, DOWN DISCHARGE	3500	5,520	0.75"	5 HP 208V/3PH/60HZ	GAS FIRED MAKEUP AIR UNIT, 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. REQUIRED INPUT GAS PRESSURE 7" WC TO 14" WC.

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	+5,520	0
EF-1, EF-2	0	0	0	-3,450, -3450
RTU-1	+2,000	-1,500	500	0
RTU-2, RTU-3	+4,000, +4000	-3,250, -3,250	750, 750	0
EF-3	-	-	-	-450
TOTAL	+10,000	-8,000	+7,520	-7,350

BUILDING PRESSURE = +170 CFM

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 (FT^2)	OCCUPANCY DENSITY ($PEOPLE/FT^2$)	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	-	648
DINING ROOM	823	70/1,000	58	0.18	7.5	+583

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)	1236
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
T1		THERMOSTAT / UNIT
R1		REMOTE SENSOR / UNIT

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REVISIONS:

ISSUE DATE:

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DRAWN BY: J. DESKINS

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

HENRY DONOVAN MONTAGUE REGISTERED No. 11400578 STATE OF INDIANA PROFESSIONAL ENGINEER
02/10/2021

NORR ARCHITECTS ENGINEERS PLANNERS

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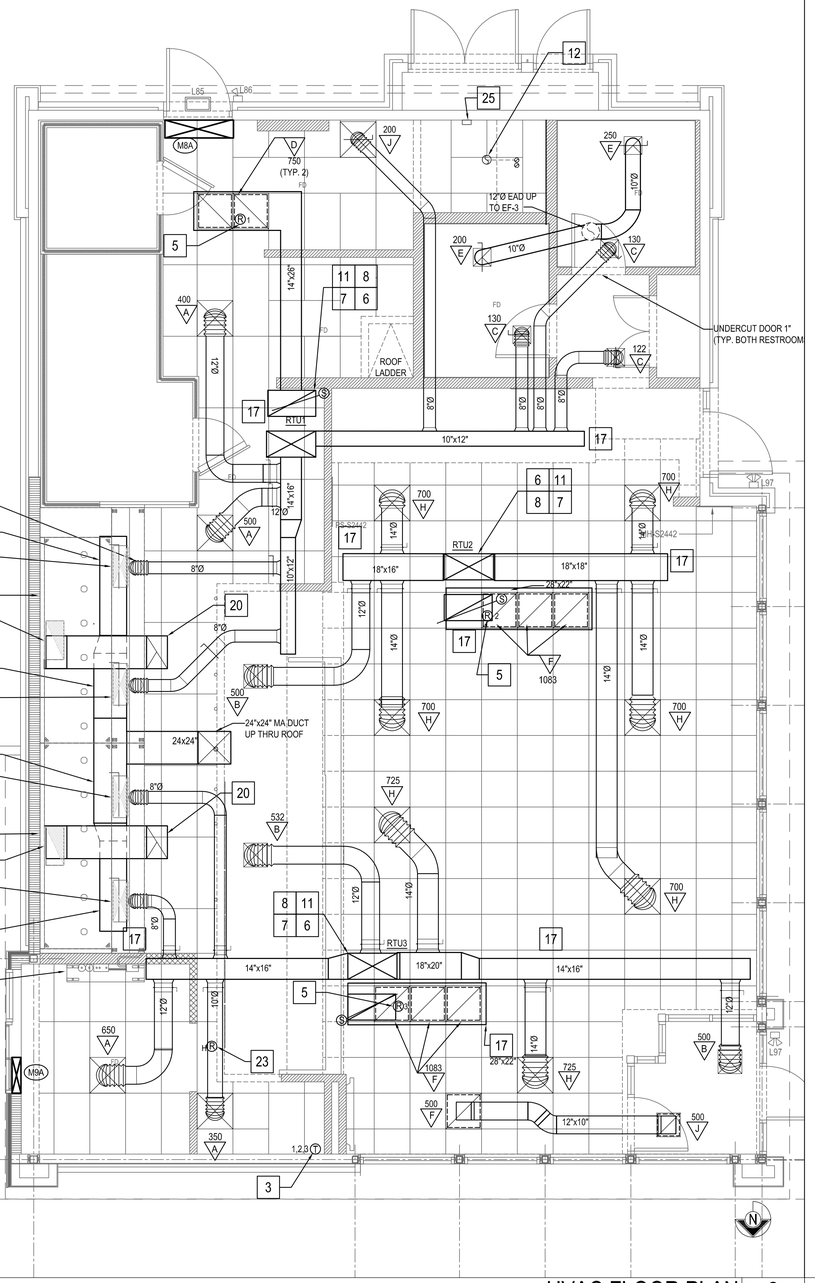
MECHANICAL NOTES
SPECIFICATIONS & SCHEDULES



HVAC FLOOR PLAN 2

Scale:1/4"=1'-0" M-100

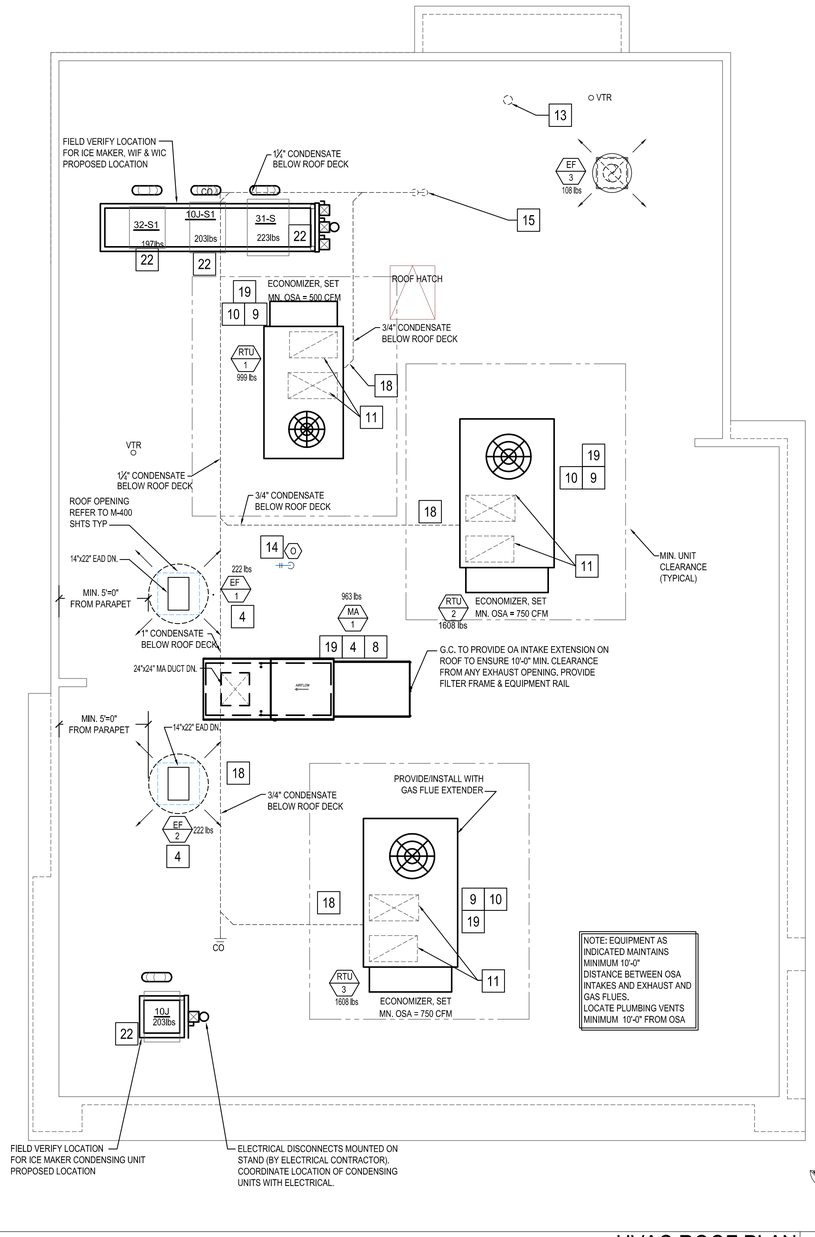
MAKE UP AIR CALCULATION:

CALCULATION FOR MAKE UP AIR TEMPERATURE DIFFERENTIAL BETWEEN MAKEUP AIR AND THE AIR IN THE CONDITIONED SPACE SHALL NOT EXCEED 10 DEG F.
FOR EACH SITE , CALCULATE AVERAGE DAILY TEMPERATURE FOR PREVIOUS 5 YEARS.
OCCUPIED COOLING SET POINT IS 75 F. IF TEMPERATURES AVERAGE 85 F OR ABOVE FOR MORE THAN 14 DAYS PROVIDE COOLING ON MAKEUP AIR.
OCCUPIED HEATING SET POINT IS 70 F. IF TEMPERATURES AVERAGE 60 F OR BELOW FOR MORE THAN 14 DAYS PROVIDE HEATING ON MAKEUP AIR.
FROM THE NATIONAL WEATHER SERVICE CLIMATE DATA FOR: BROWNSBURG, IN (BASED ON INDIANAPOLIS, IN) FROM MAY THRU SEPTEMBER.

YEAR	AVERAGE # OF DAYS TEMP OVER 85 F
2016	2
2017	0
2018	2
2019	1
2020	0
TOTAL:	5
TOTAL AVERAGE	5 / 5 = 1.0 DAYS

MONTH/YEAR	AVERAGE # OF DAYS TEMP BELOW 60 F
JAN/2020	31

PANDA HAS APPROVED THAT COOLING IS NOT REQUIRED. HEATING SHALL BE PROVIDED.



HVAC ROOF PLAN 1

Scale:1/4"=1'-0" M-100

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 22"x14" 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 WRAP WITH THERMAL CERAMIC FIREMASTER DUCT WRAP+ OR EQUAL. FABRICATE DUCT FROM 16 GAUGE STEEL WITH WELDED SEAM CONSTRUCTION SEAL TO THE ROOF CURB WITH FIRE CAULKING . SEE HOOD DETAIL DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE DRAWINGS.
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 COMBINATION VENT AND COMBUSTION AIR PIPING PROVIDED AND INSTALLED BY PLUMBING FOR SEALED COMBUSTION WATER HEATER. REFER TO PLUMBING PLANS.
13. WATER HEATER CONCENTRIC 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).
23. ROOM AIR SENSOR FROM CAPTIVEAIRE HOOD ON BACK OF MENU BOARD WALL, AS CLOSE TO CEILING AS POSSIBLE.
24. INSTALL ANSUL SYSTEM SUCH THAT TOP OF CABINET IS ON THE UNDERSIDE OF ACT CEILING.
25. PROVIDE CO2 MONITORING SYSTEM. CO2 SENSOR SHALL BE MOUNTED 12" TO 18" ABOVE FINISHED FLOOR NEAR CO2 LINES. CO2 ALARM SHALL BE MOUNTED VISIBLE TO OCCUPANTS FOR ALARM COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

NOTE: MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED SHALL BE PER 5 FT.

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DRAWN BY: J. DESKINS

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

HENRY DONOVAN MONTAGUE REGISTERED No. 11400578 STATE OF INDIANA PROFESSIONAL ENGINEER
02/10/2021

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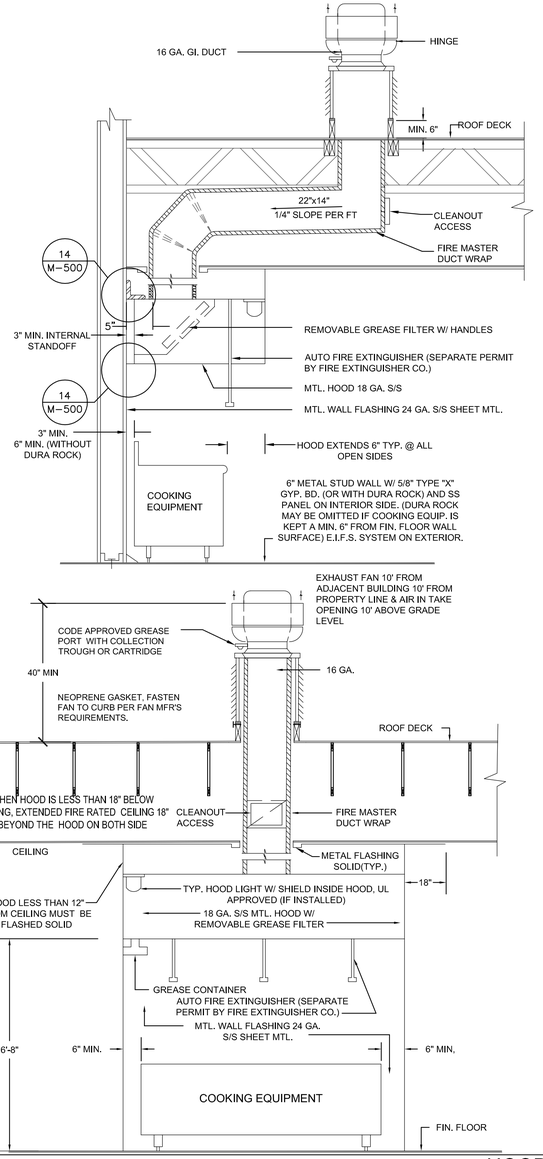
M-100

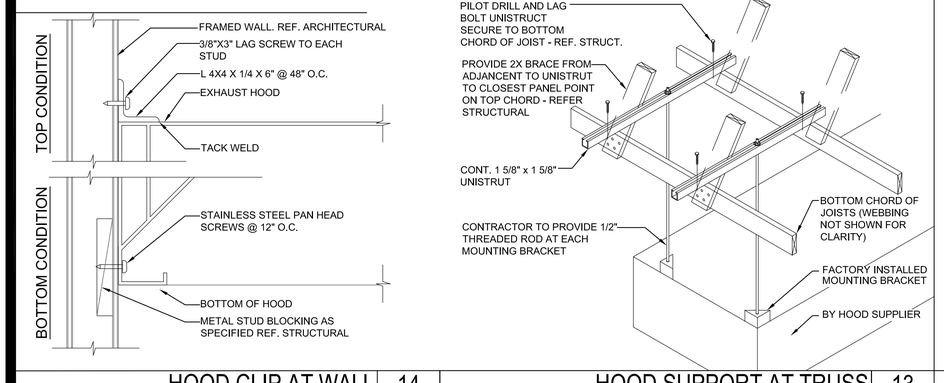
H.V.A.C. FLOOR PLAN &
H.V.A.C. ROOF PLAN

TRUE WARM & WELCOME 2300 R4



HOOD SECTIONS 18

Scale: NO SCALE M-500



HOOD CLIP AT WALL 14

Scale: NO SCALE M-500

HOOD SUPPORT AT TRUSS 13

Scale: NO SCALE M-500

SYSTEM SHALL BE INSTALLED, PERFORMANCE TESTED, LISTED FOR MECHANICAL HOOD AND LABELED PER REQUIREMENTS FOR NFPA AND MANUFACTURER'S INSTRUCTION PER IFC 904.12.

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: 22"X14"
7. EXHAUST VELOCITY @ EXHAUST DUCT 3450/(22"x14"/144)= 1612 FPM 1500FPM < 1612 FPM < 2500FPM
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

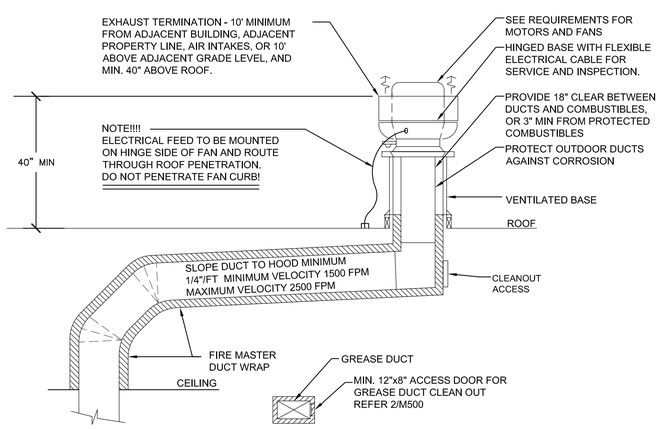
1. STAINLESS STEEL TO BE NO. 18 U.S. GAGE.
2. WHEN GUTTERS ARE PROVIDED THEY SHALL DRAIN TO A COLLECTING PAN WHICH IS READILY ACCESSIBLE FOR CLEANING
3. SEE TABLE 507.11 FOR MINIMUM DISTANCE BETWEEN LOWER EDGE OF GREASE FILTER AND THE COOKING OR HEATING SURFACE.
4. GREASE FILTERS SHALL BE OF STEEL CONSTRUCTION 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:

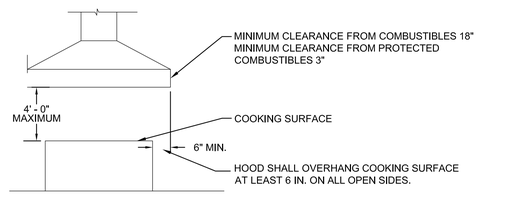
DUCT AREA	U.S. GAGE STEEL
UP TO 4 SQ. FT.	18 GA
OVER 4 SQ. FT.	14 GA

5. WELD OR BRAZE ALL DUCT JOINTS AND SEAMS ON THE EXTERNAL SURFACE.
6. SUPPORT THE DUCTS AS REQUIRED. DO NOT PENETRATE DUCT WALLS WITH SCREWS, NAILS, ETC.
7. SECTIONS OF DUCT SHALL NOT CONTAIN GREASE POCKETS.



CANOPY TYPE (FRONT VIEW)

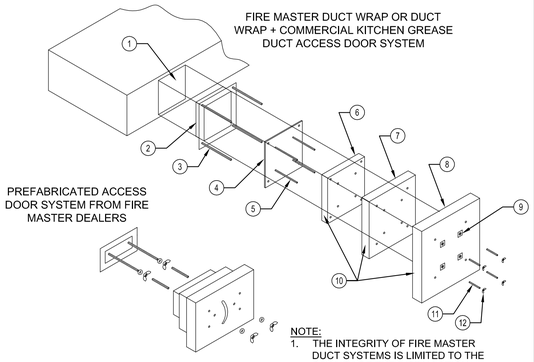
CLEAN OUT DOOR DETAIL
N.T.S.



(FOR REFERENCE ONLY)

HOOD VENTILATION AND SECTION 5

Scale: NO SCALE M-500



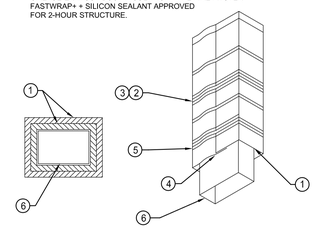
NOTE:
1. THE INTEGRITY OF FIRE MASTER DUCT SYSTEMS IS LIMITED TO THE QUALITY OF THE INSTALLATION.
2. REFER TO ICC EVALUATION REPORT 9424E.

FIRE MASTER DUCT WRAP or DUCT WRAP+	
1	DOOR HOLE
2	ACCESS FRAME WELDED TO DUCT
3	1/4" DIA. ALL THREAD RODS
4	ACCESS COVER - 16 GAUGE
5	INSULATION PINS - WELDED
6	ONE LAYER FIRE MASTER DUCT WRAP or DUCT WRAP +
7	ONE LAYER FIRE MASTER DUCT WRAP or DUCTWRAP + 1" OVERLAP
8	ONE LAYER FIRE MASTER DUCT WRAP or DUCTWRAP + 1" OVERLAP
9	SPEED CLIPS
10	ALUMINUM TAPE AT EDGES
11	SPOOL PIECES FOR THREADED RODS
12	1/4" DIA. WING NUTS

GREASE DUCT ACCESS DOOR 2

M-500

NOTE:
GREASE EXHAUST DUCT INSULATION TYPE FIRE MASTER FASTWRAP+ + SILICON SEALANT APPROVED FOR 2-HOUR STRUCTURE.



	LEGEND
1	TWO LAYERS FIRE MASTER FASTWRAP+
2	FILAMENT TAPE
3	BANDING
4	3-INCH PERIMETER OVERLAP
5	3-INCH LONGITUDINAL OVERLAP
6	GREASE DUCT

FOR SI: 1 INCH=25.4 MM UL # GL-18

FIGURE 2-HOUR FIRE-RESISTIVE PROTECTION SYSTEM FOR GREASE DUCTS

2 HOUR GREASE DUCT WRAP 1

Scale: NO SCALE M-500

PANDA EXPRESS CHINESE KITCHEN

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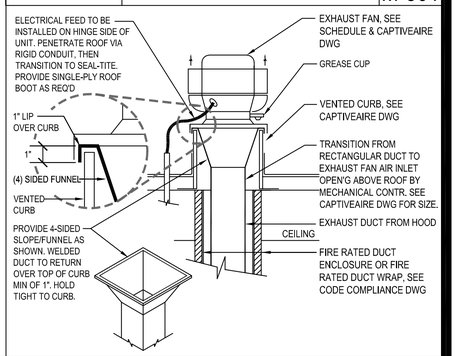
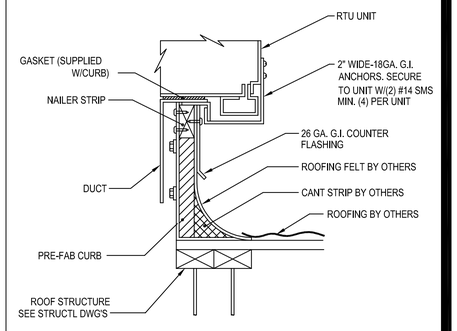
KITCHEN HOOD DETAILS

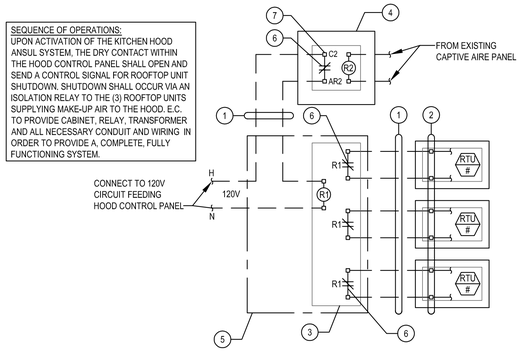
TRUE WARM & WELCOME 2300 R4

- 20	- 16	- 4	
Scale: NO SCALE M-501	Scale: NO SCALE M-501	Scale: NO SCALE M-501	
- 19	- 15	- 7	GREASE EXHAUST FAN DETAIL 3
Scale: NO SCALE M-501	Scale: NO SCALE M-501	Scale: NO SCALE M-501	Scale: NO SCALE M-501
- 18	- 14		RTU UNIT CURB DETAIL 2
Scale: NO SCALE M-501	Scale: NO SCALE M-501		Scale: NO SCALE M-501
- 17	- 13	RTU CONTROL WIRING DIAGRAM 5	- 1
Scale: NO SCALE M-501	Scale: NO SCALE M-501	Scale: NO SCALE M-501	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 TRANE 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.C. DRY CONTACT (SHOWN ENERGIZED) THAT OPENS IN FIRE CONDITIONS.
7. 120V RATED DRY CONTACT WITHIN CAPTIVE AIRE PANEL.

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M-501

MECHANICAL DETAILS

HOOD INFORMATION – JOB#4683165

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	MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		4824 ND-2-ACPSP-F	CAPTIVEAIRE	11' 6"	600 DEG	I	HEAVY	300	3450	14"	22"	4"		3450	1613	-0.559"	2760	518	430 SS WHERE EXPOSED	LEFT	ALONE
2		4824 ND-2-ACPSP-F	CAPTIVEAIRE	11' 6"	600 DEG	I	HEAVY	300	3450	14"	22"	4"		3450	1613	-0.559"	2760	518	430 SS WHERE EXPOSED	RIGHT	ALONE

TYPE I HOODS DEPICTED HERE SHALL BE INSTALLED WITH A CLEARANCE TO COMBUSTIBLES OF NOT LESS THAN 18 INCHES PER IMC 2012 SECTION 507.9. CLEARANCE SHALL NOT BE REQUIRED FROM GYPSUM WALLBOARD OR 1/2 INCH OR THICKER CEMENTITIOUS WALLBOARD ATTACHED TO NONCOMBUSTIBLE STRUCTURES PROVIDED THAT A SMOOTH, CLEANABLE, NONABSORBENT AND NONCOMBUSTIBLE MATERIAL IS INSTALLED BETWEEN THE HOOD AND THE GYPSUM OR CEMENTITIOUS WALLBOARD OVER AN AREA EXTENDING NOT LESS THAN 18" IN ALL DIRECTIONS FROM THE HOOD.

TYPE I HOODS DEPICTED HERE SHALL BE INSTALLED WITH MINIMUM 6 INCHES OF HORIZONTAL OVERHANG FROM THE TOP HORIZONTAL SURFACE OF COOKING APPLIANCES IN ACCORDANCE WITH IMC 2012 SECTION 507.12. HOOD SHALL BE PERMITTED TO BE FLUSH WITH THE OUTER EDGE OF THE COOKING SURFACE WHERE THE HOOD IS CLOSED TO THE APPLIANCE SIDE BY A NONCOMBUSTIBLE WALL OR PANEL.

BALANCE OF AIR VOLUME EXHAUSTED FROM HOODS THAT IS NOT MADE UP BY MAKEUP AIR DELIVERED THROUGH SUPPLY PLENUMS MUST BE PROVIDED THROUGH RTUS OR OTHER MEANS IN ACCORDANCE WITH IMC 2012 SECTION 508.1

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		SS BAFFLE WITH HANDLES	8	20"	16"	30%	10	RECESSED	NO	WALL MNT	12"x54"x24"	ANSUL R102	3.0/3.0/3.0	SC-321110FP-SEP	1 LIGHT 1 FAN	YES	669 LBS
2		SS BAFFLE WITH HANDLES	8	20"	16"	30%	10	RECESSED	NO	RIGHT	20"x48"x24"					YES	759 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		LEFT END STANDOFF 3" WIDE 48" LONG.

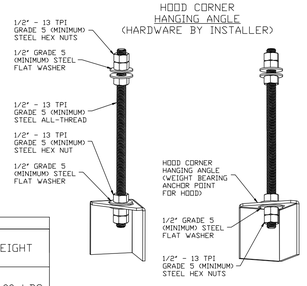
PERFORMED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	141"	22"	6"	MUA	10"	28"		1380	0.696"
						MUA	10"	28"		1380	0.696"
						AC			8"	259	0.160"
						AC			8"	259	0.160"
2		Front	158"	22"	6"	MUA	10"	28"		1380	0.696"
						MUA	10"	28"		1380	0.696"
						AC			8"	259	0.145"
						AC			8"	259	0.145"

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 R102	3.0/3.0/3.0	SC-321110FP-SEP	1 LIGHT 1 FAN	305.00 LBS

HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)

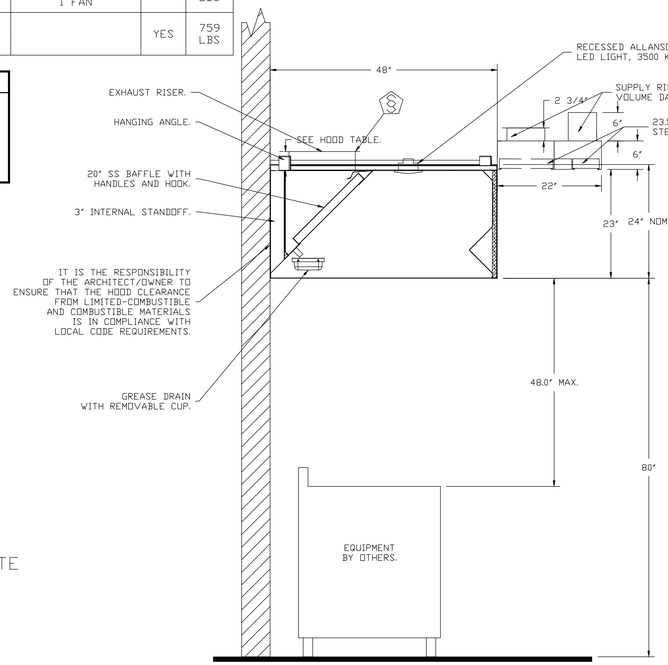


ASSEMBLY INSTRUCTIONS

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.

ETL LISTING DESCRIPTION BLOCK

THE CAPTIVEAIRE MODEL ND-2 HAS BEEN E.T.L. TESTED, LISTED, AND APPROVED TO EXHAUST A MINIMUM OF 200 CFM PER LINEAR FOOT OVER 600 DEGREE COOKING EQUIPMENT



SECTION VIEW – MODEL 4824ND-2-ACPSP-F HOOD – #1

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

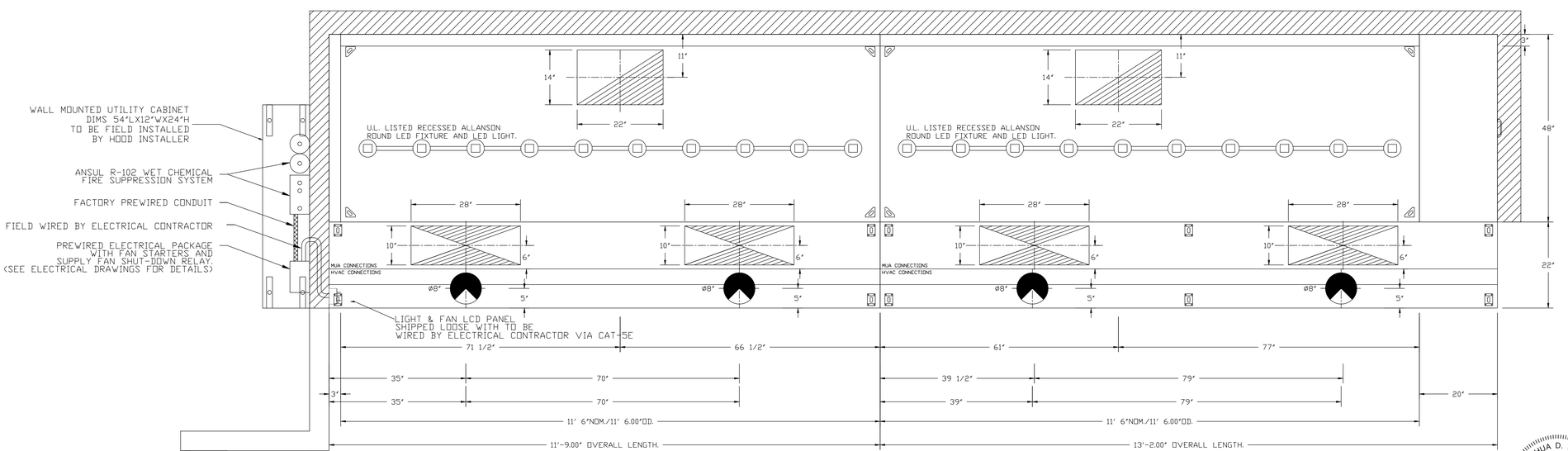
ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CALIFORNIA OFFICE

3002 DOW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG86@CAPTIVEAIRE.COM

PRE-FABRICATED DOUBLE WALL ROUND DUCTWORK IS AVAILABLE AS AN ALTERNATE HVAC CONTRACTOR OR GENERAL CONTRACTOR TO CONTACT REGION 86 @ 714-957-1500 OR REG86@CAPTIVEAIRE.COM FOR DESIGN AND PRICING



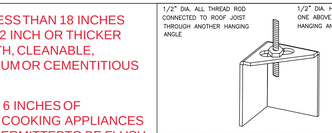
PLAN VIEW – HOOD #1
11' 6.00" LONG 4824ND-2-ACPSP-F

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

PLAN VIEW – HOOD #2
11' 6.00" LONG 4824ND-2-ACPSP-F

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

NO SCALE

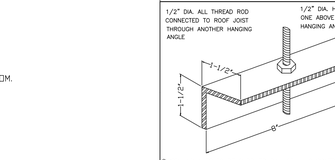


*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24"/30"H)	DIM FROM LEFT/RIGHT (24"/30"H)
ND-2			
CANOPY EXHAUST ONLY	4.166"	2.246"	2.25"
CANOPY WITH MUA	4.166"	2.246"	2.25"
BACKSHELF EXHAUST ONLY	4.166"	2.246"	2.25"
BACKSHELF WITH MUA	4.166"	2.246"	2.25"
CONDENSATE	2.246"	2.246"	2.25"

ND-2 HANGING ANGLE LOCATIONS



*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND HANGING ANGLE DETAIL

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24"/30"H)	DIM FROM LEFT/RIGHT (24"/30"H)
ND			
CANOPY EXHAUST ONLY	5.00"	10.5" / 5"	5.00"
CANOPY WITH MUA	5.00"	10.5" / 5"	5.00"

ND HANGING ANGLE LOCATIONS

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

BUILDING CODES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	3" INSULATED STANDOFF

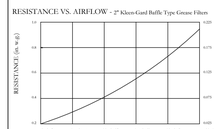
CLEARANCE TO COMBUSTIBLES

GENERAL NOTES :

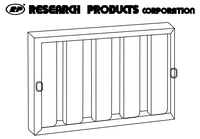
1. ELECTRICAL HOOK-UP TO CAS MOTOR CONTROLS (MOTOR STARTERS, FAN SWITCHES, FAN DISCONNECTS, RELAYS, ETC.) BY OTHERS.
2. FIRE CHASE BY OTHERS, IF REQUIRED.
3. ALL PHASES OF INSTALLATION SHALL COMPLY WITH NFPA 96.
4. WRITTEN MEASUREMENTS HAVE PRECEDENCE OVER SCALE.
5. PROVIDE CLEANOUTS IN EXHAUST AIR DUCTS AS INDICATED TO ALLOW CLEANING AT ALL BENDS AND HORIZONTAL RUNS.
6. EXHAUST DUCT TO BE 16 GA. GAV STEEL. ALL SEAMS AND JOINTS TO HAVE A LIQUID TIGHT CONTINUOUS EXTERNAL WELD.
7. FAN TO HAVE A MINIMUM OF 10 FT. OF CLEARANCE FROM THE OUTLET TO ADJACENT BUILDINGS, PROPERTY LINES, AIR INTAKES OR 3 FT. VERTICAL CLEARANCE PER NFPA96.
8. HORIZONTAL EXHAUST DUCT TO SLOPE NOT LESS THAN 1/4" PER FOOT TOWARD HOOD FOR DUCT LESS THAN 75' LONG. 1" PER FOOT SLOPE FOR DUCT LONGER THAN 75'
9. HOOD TO OVERHANG COOKING EQUIPMENT 6" ON ALL OPEN SIDES.
10. EXHAUST DUCT TO BE PROTECTED FROM COMBUSTIBLES PER NFPA96 AND LOCAL CODE.
11. BUILDING PRESSURE SHALL NOT EXCEED 0.02" WATER COLUMN AT EXTERIOR DOORS.
12. KITCHEN SHALL BE BALANCED TO BE NEGATIVE WITH RESPECT TO THE DINING ROOM.

GENERAL NOTES

RESISTANCE VS. AIRFLOW - 2" Kleen-Gard Baffle Type Grease Filters



RESEARCH PRODUCTS CORPORATION



Kleen-Gard Baffle Type Filters are UL Classified Grease Extracting Filters.
MEA # 168-78-M Aluminum
MEA # 247-96-E Stainless Steel

FILTER DETAIL

JOSHUA D. HOWES REGISTERED PE11200047 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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www.captiveaire.com

Panda Express - Brownsburg IN (D8059)
1395 N Green St,
Brownsburg, IN, 46112

DATE: 1/11/2021

DWG.#: 4683165

DRAWN BY: AH-86

SCALE: NO SCALE

MASTER DRAWING

SHEET NO. 1

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

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JOSHUA D. HOWES
REGISTERED
PE11200047
STATE OF
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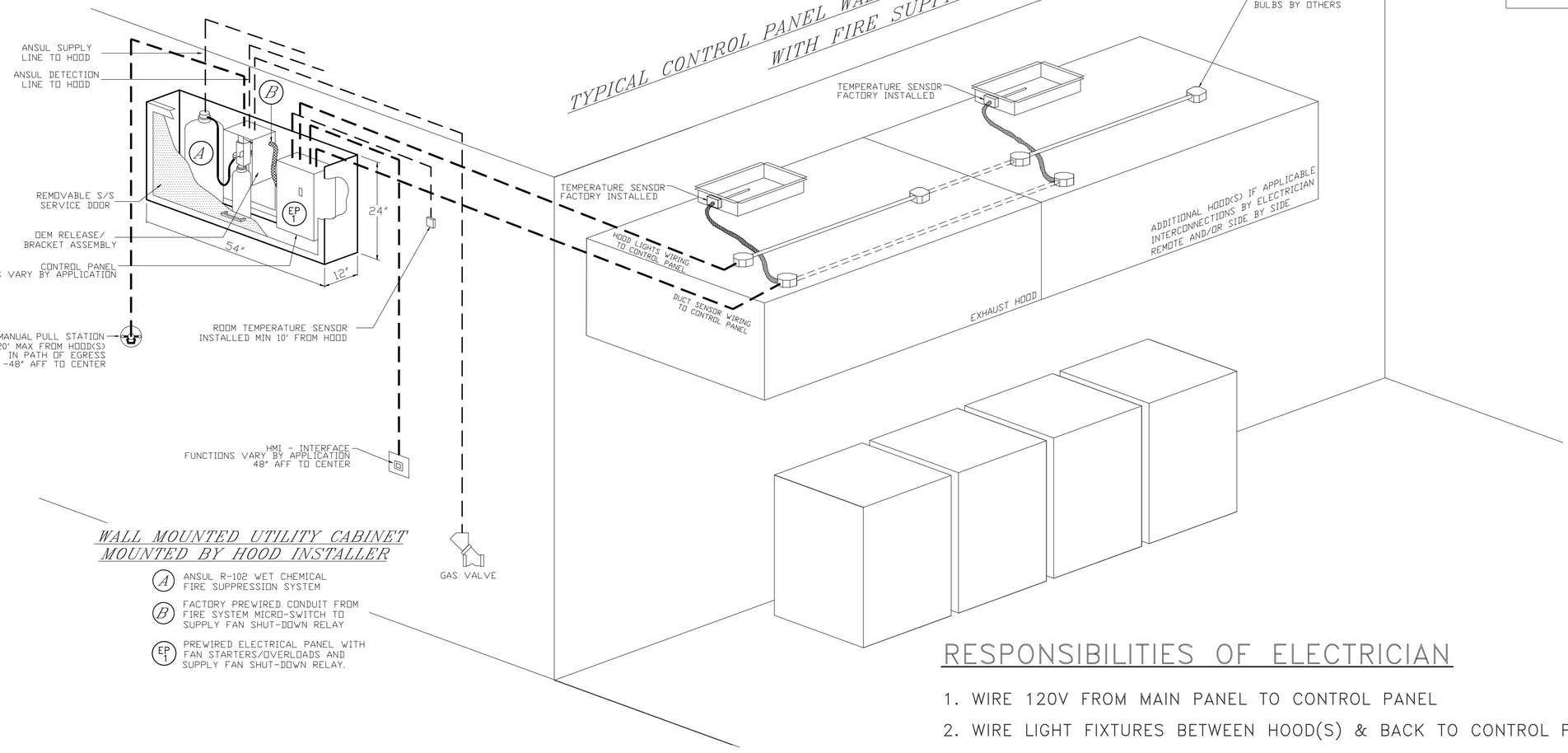
PROFESSIONAL ENGINEER

TYPICAL CONTROL PANEL WALL UTILITY CABINET MOUNT INSTALLATION WITH FIRE SUPPRESSION SYSTEM



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

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

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
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DATE: 1/11/2021

DWG.#: 4683165

DRAWN BY: AH-86

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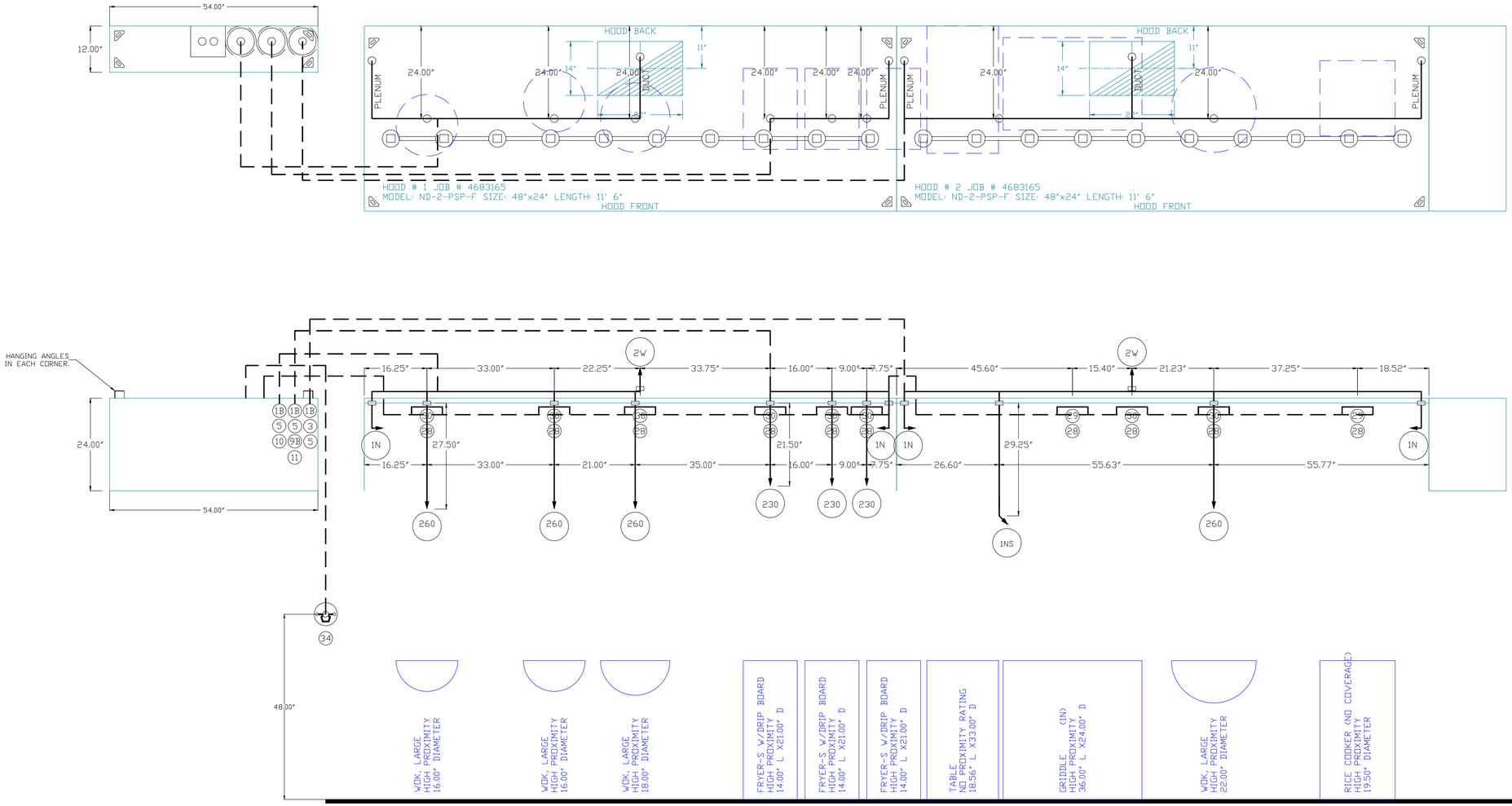
SHEET NO. 2



NOTES
- FIELD PIPE DROPS AS SHOWN
  SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

JOB #: 4683165.
JOB NAME: PANDA EXPRESS - BROWNSBURG IL (D8059).

SYSTEM SIZE: ANSUL-3.0/3.0/3.0-WC TOTAL FP REQUIRED: 23.
HOOD # 1 11' 6.00" LONG x 48" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" x 22".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 11' 6.00" LONG x 48" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" x 22".
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

LEGEND - FIRE CABINET ANSUL SYSTEM

1A	1.5 GALLON TANK.
1B	3 GALLON TANK.
2	OEM AUTOMAN RELEASE.
3	OEM REGULATED RELEASE.
4	OEM REGULATED ACTUATOR.
5	ANSULEX LIQUID AGENT (3 GAL.).
6	ANSULEX LIQUID AGENT (1.5 GAL.).
7	CARTRIDGE (101-20).
8	CARTRIDGE (101-10).
9	CARTRIDGE (101-30).
9A	CARTRIDGE (LT-A-101-30).
9B	DOUBLE TANK CARTRIDGE.
10	TEST LINK.
11	DOUBLE MICROSWITCH.
12	HOSE ASSEMBLY.
1100	DUCT NOZZLE (430913).
2W	DUCT NOZZLE (419337).
1W	NOZZLE ASSEMBLY (419336).
1F	NOZZLE ASSEMBLY (419333).
1N	NOZZLE ASSEMBLY (419335).
1/2N	NOZZLE ASSEMBLY (419334).
3N	NOZZLE ASSEMBLY (419338).
245	NOZZLE ASSEMBLY (419340).
230	NOZZLE ASSEMBLY (419339).
2120	NOZZLE ASSEMBLY (419343).
290	NOZZLE ASSEMBLY (419342).
260	NOZZLE ASSEMBLY (419341).
28	DETECTOR BRACKET.
29	LOW TEMP FUSIBLE LINK.
30	HIGH TEMP FUSIBLE LINK.
MGV	MECHANICAL GAS VALVE.
EGV	ELECTRICAL GAS VALVE.
34	REMOTE MANUAL PULL STATION.
S	SWIVEL ADAPTOR.

JOSHUA D. HOWES REGISTERED PE11200047 STATE OF INDIANA PROFESSIONAL ENGINEER

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MASTER DRAWING

SHEET NO. 3

EXHAUST FAN INFORMATION – JOB#4683165

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	EABDU18	ECON-AIR	3450	1.250	1223	ODP	2.000	1.3860	3	208	5.9	797 FPM	184	17.6
2		1	EABDU18	ECON-AIR	3450	1.250	1223	ODP	2.000	1.3860	3	208	5.9	797 FPM	184	17.6
3		1	EABDCR7	ECON-AIR	450	0.250	1128	ODP	0.250	0.0850	1	115	4.8		90	6.3

MUA FAN INFORMATION – JOB#4683165

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	ø	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
4		1	EA3-D.500-G18	G18-PB	A3-D.500	3500	5520	0.750	783	ODP,PREMIUM	5.000	2.5730	3	208	15.0	18.8A	30A	878	13.5

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		590400	543168	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.
2		1	GREASE BOX.
		1	UPBLAST FAN WHEEL ACCESS PORT.
3		1	I 15-BDD DAMPER.
4		1	AC INTERLOCK RELAY - 24VAC COIL.
		1	LOW FIRE START.
		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	FREEZESTAT (10).
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.

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	38 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
2	# 2	38 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
3	# 3	18 LBS	CURB	19.500"W X 19.500"L X 12.000"H .
4	# 4	84 LBS	CURB	35.000"W X 84.000"L X 20.000"H INSULATED.

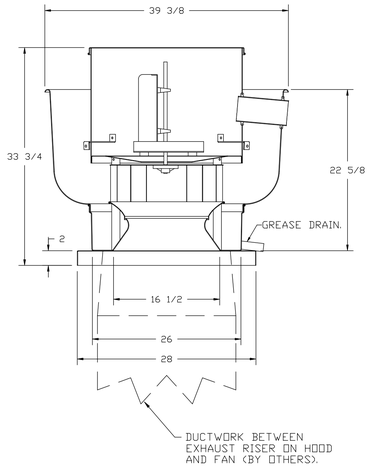
COORDINATE FINAL LOCATION OF GREASE RATED EXHAUST FANS AND MAKEUP AIR UNITS IN ACCORDANCE WITH THE REQUIREMENTS OF IMC 2012 SECTION 506.3.13. OUTLETS SHALL TERMINATE NOT LESS THAN 40 INCHES ABOVE ROOF SURFACE, NOT LESS THAN 10 FEET HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT BUILDINGS AND ADJACENT PROPERTY LINES, AND NOT LESS THAN 10 FEET ABOVE THE ADJOINING GRADE LEVEL. OUTLETS SHALL BE LOCATED NOT LESS THAN 10 FEET HORIZONTALLY FROM OR NOT LESS THAN 3 FEET VERTICALLY ABOVE AIR INTAKE OPENINGS INTO ANY BUILDING. EXCEPTION: OUTLETS SHALL TERMINATE NOT LESS THAN 5 FEET HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDING, ADJACENT BUILDINGS AND ADJACENT PROPERTY LINES AND AIR INTAKE OPENINGS INTO A BUILDING WHERE AIR FROM THE EXHAUST OUTLET IS DISCHARGED AWAY FROM SUCH LOCATIONS.

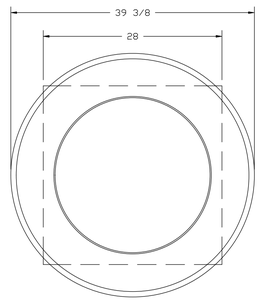
CONTRACTOR TO PROVIDE GREASE RATED EXHAUST FAN BASE CERAMIC SEAL BETWEEN EXHAUST FAN AND GREASE DUCT IN ACCORDANCE WITH IMC 2012 SECTION 506.3.2.3

COORDINATE FINAL LOCATION OF NON GREASE RATED EXHAUST FANS IN ACCORDANCE WITH THE REQUIREMENTS OF IMC 2012 SECTION 506.4.2. OUTLETS SHALL TERMINATE NOT LESS THAN 30 INCHES ABOVE ROOF SURFACE AND FROM EXTERIOR VERTICAL WALLS, NOT LESS THAN 3 FEET IN ANY DIRECTION FROM OPENINGS INTO THE BUILDING, AND NOT LESS THAN 10 FEET ABOVE GRADE OR FROM PROPERTY LINES OR BUILDINGS ON THE SAME LOT. OUTLETS SHALL NOT BE DIRECTED ONTO WALKWAYS, SHALL BE PROTECTED AGAINST LOCAL WEATHER CONDITIONS, AND SHALL MEET THE PROVISIONS FOR EXTERIOR WALL OPENING PROTECTIVES IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

MAKEUP AIR TEMPERATURES SHALL BE DELIVERED WITHIN 10 DEGREES F OF ROOM TEMPERATURE AS PER IMC 2012 SECTION 508.1.1, EXCEPT WHERE ADDITIONAL HEATING AND COOLING LOADS OF THE MAKEUP AIR DO NOT EXCEED THE CAPACITY OF THE HVAC SYSTEM.

FANS #1, #2 - EABDU18 EXHAUST FAN





TOP VIEW

FEATURES:

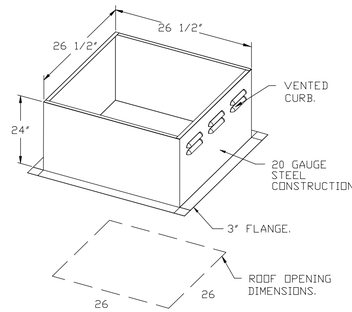
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645.
- AMCA SOUND AND AIR CERTIFIED.
- WIRING FROM MOTOR TO DISCONNECT SWITCH.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.

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.

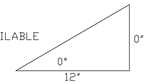
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
UPBLAST FAN WHEEL ACCESS PORT.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
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SCALE: NO SCALE

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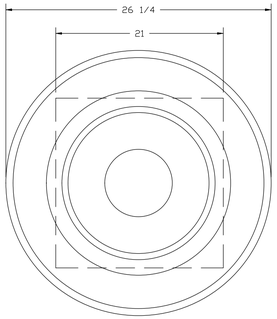
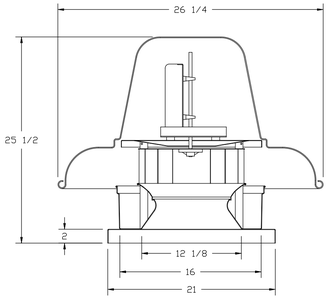
SHEET NO. 4

FAN #3 EABDCR7 - EXHAUST FAN



TOP VIEW

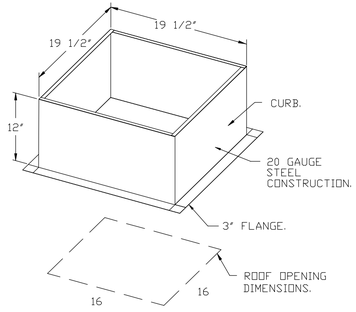


FEATURES:

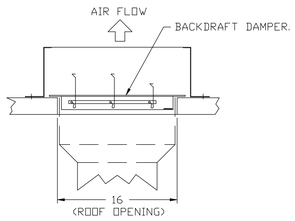
- ROOF MOUNTED FANS.
- UL705.
- AMCA SOUND AND AIR CERTIFIED.
- WIRING FROM MOTOR TO DISCONNECT SWITCH.
- DISCONNECT SWITCH.
- STANDARD BIRD SCREEN.

OPTIONS

I 15-BDD DAMPER.



BACKDRAFT DAMPER INSTALLATION



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Panda Express - Brownsburg IN (D8059)
1395 N Green St,
Brownsburg, IN, 46112

DATE: 1/11/2021

DWG.#: 4683165

DRAWN BY: AH-86

SCALE: NO SCALE

MASTER DRAWING

JOSHUA D. HOWES REGISTERED PE11200047 STATE OF INDIANA PROFESSIONAL ENGINEER

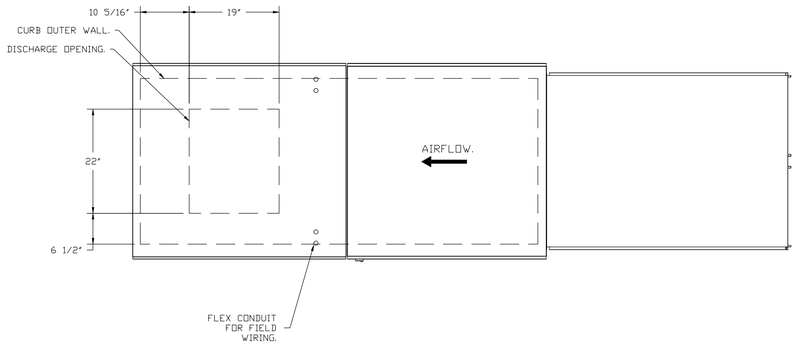
SHEET NO. 5

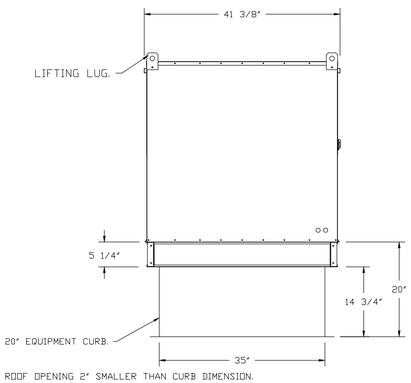
FAN #4 EA3-D.500-G18 - HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 18" BLOWER AND 12" BURNER.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
8. 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.
9. FREEZESTAT WITH 10' SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.
10. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.

*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".

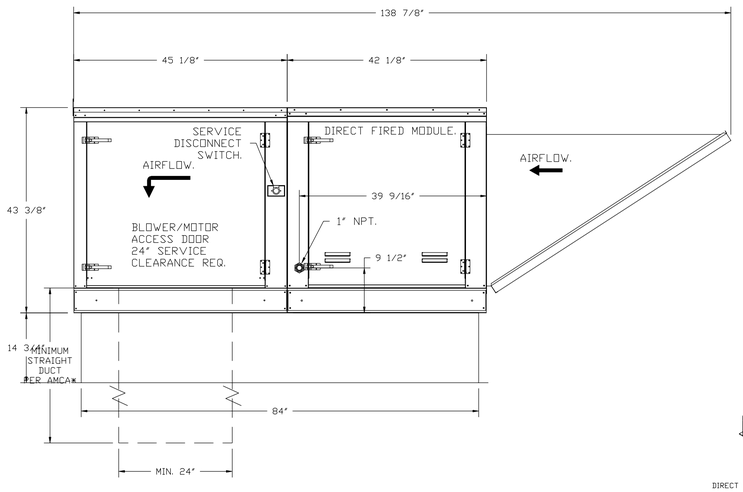
SUPPLY SIDE HEATER INFORMATION:

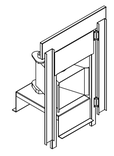
WINTER TEMPERATURE = 10°F. TEMP. RISE = 98°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 544333.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 591666.





ROOF OPENING 2" SMALLER THAN CURB DIMENSION.





DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO.: US6629523B2), 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 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM 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.

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SHEET NO. 6

ELECTRICAL PACKAGE – JOB#4683165

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1		SC-321110FP-SEP	WALL UTILITY CABINET LEFT	OB - SHIP LOOSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL	EXHAUST	3	2.000	208	5.9
							EXHAUST	3	2.000	208	5.9
							SUPPLY	3	5.000	208	15.0

HOOD SHALL BE INSTALLED WITH MINIMUM 3 FEET CLEARANCE FROM FACE OF ELECTRICAL CONTROL PANEL AS REQUIRED BY NATIONAL ELECTRICAL CODE SECTION 110-26

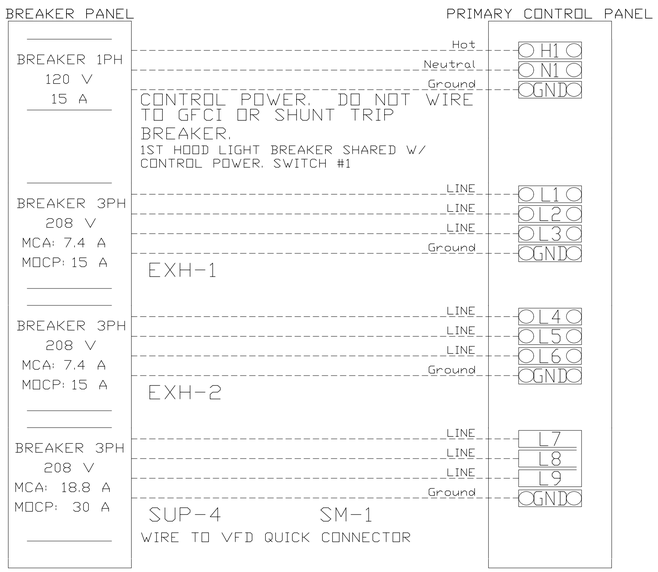
JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE
4683165	SC-321110FP-SEP		INSTALL
	JOB NAME: Panda Express - Brownsburg IN...	DATE: 1/11/2021	DWG NO: ECP #1-1

DESCRIPTION OF OPERATION:
3 Phase w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fan(s) On/Off Thermostatically Controlled. Separate Breaker Input for each Fan. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

BREAKER PANEL TO PRIMARY CONTROL PANEL

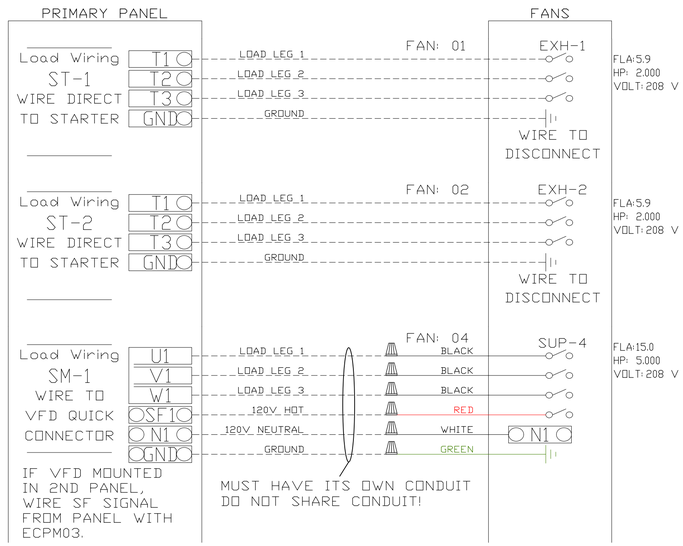
Responsibility: Electrician

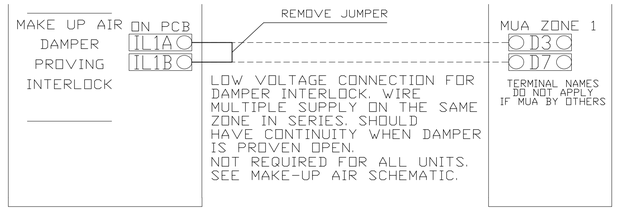
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



CONTROL PANEL TO FANS

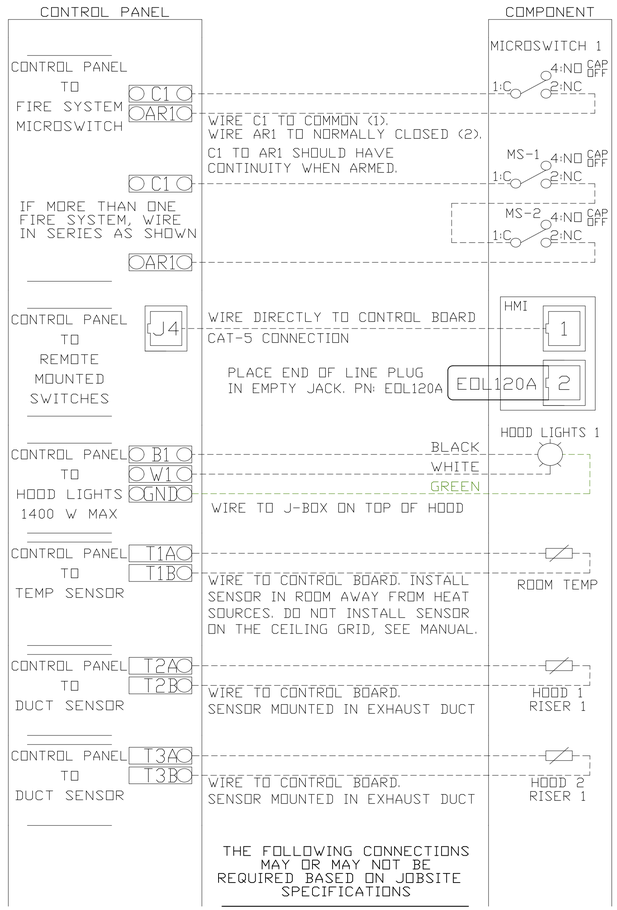
Responsibility: Electrician



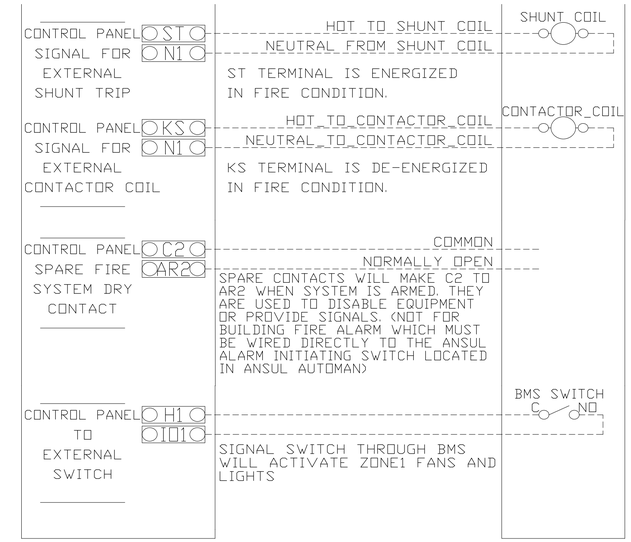


CONTROL PANEL TO ACCESSORY ITEMS

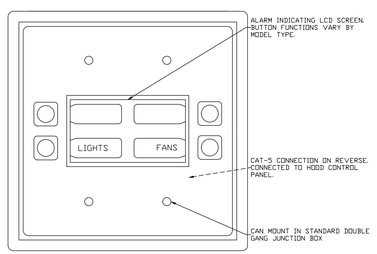
Responsibility: Electrician



THE FOLLOWING CONNECTIONS MAY OR MAY NOT BE REQUIRED BASED ON JOBSITE SPECIFICATIONS



LCD Screen



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

ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CALIFORNIA OFFICE

3002 DOW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG86@CAPTIVEAIRE.COM

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SHEET NO. 7

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 INDICATE 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 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 SYSTEMS; NEUTRAL WIRE - GRAY, LIVE WIRE - BROWN, ORANGE YELLOW ON 277/480 VOLT SYSTEMS; 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", 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.
2.08 NOT USED.
2.09 NOT USED.
2.10 NOT USED.
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.
2.12 NOT USED.
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. AMBIENT COMPENSATE ALL HEATERS EXPOSED TO HIGH TEMPERATURE OR INSTALLED OUTSIDE AS NEEDED.
2.15 NOT USED.
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 GRAY 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 TO BE PROVIDED BY PANDA EXPRESS AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
B. ALL EXTERIOR SITE LIGHTING IS PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.

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. LED 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 THE 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 RACEWAYS 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. MINIMUM CONDUIT SIZE TO BE 3/4" U.N.O.
3.03 GALVANIZED RIGID CONDUIT (GRC) - ALL RACEWAYS SHALL BE GRC EXCEPT AS NOTED OR SHOWN. CONDUIT, ELBOWS, 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 BENS 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 THE 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 AND 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 BE UL APPROVED 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 THE NEC. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS.
B. ALL RACEWAYS SHALL HAVE AN APPROVED SIZE, INSULATED, STRANDED COPPER GROUNDING TYPE CONDUCTOR.
C. WHERE RACEWAYS CONNECT TO A CONCENTRIC K.O. PROVIDE GROUNDING LOCKNUT OR BUSHING AND BOND WIRE EXTENDED AND BONDED TO THE 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 TESTS. TEST SYSTEM FOR SHORTS AND GROUNDS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. AFTER SYSTEM IS CONNECTED AND COMPLETE, 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 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. 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 THE AUTHORITY HAVING JURISDICTION (AHJ). CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND THE 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 THE 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 OF 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 THE 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 THE ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEMS. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS. THE 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 ENCLOSURES FOR ALL EQUIPMENT PENETRATING INTO THE FIRE RATED ENVELOPES, 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, DRIVERS, J-BOXES, ETC. SHALL BE ACCESSIBLE FROM FIXTURE OPENING.
11. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR 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 THE 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 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 CONDUCTORS AND LARGER RACEWAYS SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC TABLE 310 AND ELSEWHERE IN THE CODE.
17. ALL LIGHTING FIXTURES ARE PROVIDED BY PANDA EXPRESS AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
18. DO ALL DRILLING, CUTTING, AND/OR CHANNELING AS REQUIRED FOR ELECTRICAL WORK AND 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 THE 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 JURISDICTION.
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 AND 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, CABLE TRAY, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUILDELINES", PUBLISHED BY SMACNA AND PPIC.

NOTICE
THESE DRAWINGS ARE SUBJECT TO AN APPROVAL OF THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AGENCIES AUTHORITY HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTS FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.

GENERAL NOTES	2
NOT TO SCALE	E-000

GENERAL NOTES(CONT.)

22. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:
    a. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
    b. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
23. OPERATING MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
    a. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
    b. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
    c. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
    d. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

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 THE 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 — J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.
- DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS
- COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY THE 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

- L1 — 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.
- $D — LEVITON Renoir II WALLBOX DIMMER - SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 120V, BALLAST 0-10V
- SO$ — 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.
- $P — SINGLE-POLE LIGHT SWITCH WITH PILOT LIGHT @ 44" A.F.F. U.N.O. 300V. 20A.
- DS — LEVITON PROVOLT 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.	MECHANICAL CONTRACTOR
AL	ALUMINUM	M.C.B.	MAIN CIRCUIT BREAKER
A.F.F.	ABOVE FINISHED FLOOR	M.L.O.	MAIN LUGS ONLY
A.F.G.	ABOVE FINISHED GRADE	MTD.	MOUNTED
C.	CONDUIT	P.	POLE
C/B	CIRCUIT BREAKER	SW.	SWITCH
CU.	COPPER	T.M.B.	TELEPHONE MOUNTING BOARD
DISC.	DISCONNECT	TYP.	TYPICAL
F.	FUSE	U.N.O.	UNLESS NOTED OTHERWISE
G.C.	GENERAL CONTRACTOR	V.	VOLTS
GFI	GROUND FAULT CURRENT INTERRUPTER	W.	WIRE
GND.	GROUND	W.P.	WEATHERPROOF
H.P.	HORSE POWER	XFMR	TRANSFORMER
k	1000	Ø	PHASE
E.C.	ELECTRICAL 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 4" 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 WITH 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O WITH 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 WITH 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN SHOWN ADJACENT TO A RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. REFER TO RECEPTACLE MOUNTING HEIGHT NOTED ABOVE.
- 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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REVISIONS:

ISSUE DATE:

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STEVEN PATRICK PICKELL — REGISTERED — No.PE11900690 — STATE OF — PROFESSIONAL ENGINEER
2-10-21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-000
ELECTRICAL SYMBOLS
SPECIFICATIONS, NOTES

TRUE WARM & WELCOME 2300 R4

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

11-07-17

ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK	WATTS
INTERIOR LIGHTING ITEM						
L1	L1	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V WITH 5400 LUMEN PACKAGE, 4000K, AND BAKED-ON WHITE ENAMEL FINISH.	7	DAY-BRITE FIXTURE: 2TG54L-840-4-FS-02F-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC	49.3
L1B	L1B	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 2', 120V WITH 3000 LUMEN PACKAGE, 4000K, AND BAKED-ON WHITE ENAMEL FINISH.	1	DAY-BRITE FIXTURE: 2TG30L-840-2-FS-02F-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC	32.7
L1EM	L1EM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, SAME AS TYPE L1 EXCEPT WITH INTEGRAL BATTERY PACK.	3	DAY-BRITE FIXTURE: 2TG54L-840-4-FS-02F-UNV- DIM-EMLED	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC	49.3
L1BEM	L1BEM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, SAME AS TYPE L1B EXCEPT WITH INTEGRAL BATTERY PACK.	0	DAY-BRITE FIXTURE: 2TG30L-840-2-FS-02F-UNV- DIM-EMLED	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC	32.7
L4HO	L4HO	UNIVERSAL MOUNT LED EXIT SIGN, 120/277V WITH BATTERY PACK, 2 FACE WITH GREEN LETTERS	4	EXITRONIX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC. EXIT SIGNS TO BE WALL MOUNTED UNLESS NOTED OTHERWISE.	3.6
L6A	L6A	LED HOOD LIGHT	12	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELEC. CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL	BUILT INTO HOOD
L6B	L6B	LED WALK-IN COOLER LED LIGHT, 120V, 48"	3	KASON FIXTURE: # 1810LX4000	FURNISHED BY WIC VENDOR, G.R.E., INSTALLED BY GC	39
L19	L19	LED DOWN LIGHT, RECESSED IN CEILING	41	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90+	FURNISHED BY OWNER, INSTALLED BY GC	14
L19EM	L19EM	LED EMERGENCY DOWN LIGHT, RECESSED IN CEILING	7	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	14
L20	L20	3 3/4" ADJUSTABLE MR16 DOWNLIGHT, RECESSED IN CEILING	11	LIGHTOLIER: LYTECASTER - 378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - LED 6W, 35° BEAM	REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION. FURNISHED BY OWNER, INSTALLED BY GC	6
L30	L30	WHITE LED AT SERVICE COUNTER SOFFIT AND DINING ROOM PARTIAL HEIGHT WALL	36 L.F.	LUXEM BRIGHT FIXTURE: BLAZE LED	FURNISHED BY OWNER, INSTALLED BY GC	1.3 WATTS PER FOOT
L43	L43	12" DIA. DECORATIVE BAYLOR PENDANT LF INCANDESCENT	12	LBL LIGHTING, MODEL # P1461ORB BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC	9
L45	L45	12" DIA. DECORATIVE MORILL PENDANT LF INCANDESCENT	5	LBL LIGHTING, MODEL # 6227801-839 BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC	5
L100	L-100	MICRO INVERTER	1	ISOLITE #IMI 125	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 LED LIGHT IN EXTERIOR STORAGE ROOM	1	COOPER LIGHTIING, MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	4' LED VAPORTITE FIXTURE, SURFACE MOUNTED, FURNISHED BY OWNER, INSTALLED BY GC	56
L85		WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	HOWARD LIGHTING PRODUCTS LED WALL PACK #VL305 30W LED, 120V WITH BRONZE FINISH	OVER EXTERIOR SERVICE DOOR. REFER TO ARCHITECTURAL ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC.	29
L66		EXTERIOR EMERGENCY LIGHT	2	EXITRONIX, MLED1-G-WP	OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER TO ARCHITECTURAL ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC	1.5
L66 WET		EXTERIOR RECESSED EMERGENCY LIGHT	1	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	14
L90		DECORATIVE LED WALL SCONCE	2	HINKLEY LIGHTIING, ATLANTIS 1649BZ-LED,	AT PORTAL OF ENTRY DOOR. REFER TO ARCHITECTURAL ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC	11
L91		DECORATIVE LED WALL SCONCE	4	HINKLEY LIGHTING, KORE; BRONZE; 1872BZ-LED	ALONG REAR EIFS BAND FURNISHED BY OWNER, INSTALLED BY GC	5
L97		LED MOTION SECURITY FLOODLIGHT	2	LITHONIA LIGHTING OLF 2RH 40K 120V MO BZ	FURNISHED BY OWNER, INSTALLED BY GC	25

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 (# 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-S1d
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"						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																	#26"	CHART	CARBO-MAX 750	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	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	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
GRILL NEMA PLUG/CONNECTOR O										36"	DC	25A	3		208V		36"X27 7/8"X15 1/2"	STAR	536TGF	STAR ELECTRICAL GRILL	23B
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)	(2) RICE COOKER	25A
O										24"	C	9A	1	1/2	115	NEMA 5-15P	60 1/4"X30"X30 5/8"	TURBO AIR	MUF-60-PE	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/ID	500W	1		120		SEE PLAN	KEC	CUSTOM	W.I.F. LTG, DOOR HEATER	32-S7
O										24"	C	12A	1	1/2	120	SELF CONTAINED	84"x33"x35"	TURBO AIR	TST-2400-D4-R-N	84" REF. PREP. TABLE	34O
O										24"	C	9A	1	1/3	120	SELF CONTAINED	48x33"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	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 28"	KEC	CUSTOM	S.S. GRILL STAND	46K
O																	18 5/8"x 33" x 28"	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
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										24"	C	14.8A	1		120	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
										REF ELEV	C	500W	1		120	CUSTOM	11 1/4"x14 1/2"x9"	RESNOS	S 460	CASH REGISTER SYSTEM	94
O																					
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
BY G.C.										24"	D	20A	1		120	SEE ELEC. DWG	25"X 9" X 10 3/8"	QUIK-SERV	CF-25 NON-HEATED	DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH	M9a
BY G.C.										24"	D	30A	1		120 & 208	SEE ELEC. DWG	25"X 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED		
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		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	55W550S-B	LCD DISPLAY MONITOR	96-3B

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REVISIONS:

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DRAWN BY: N. NGUYEN

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

SEAN PATRICK RICKELL REGISTERED No.PE11800580 STATE OF ARIZONA PROFESSIONAL ENGINEER
2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-001
ELECTRICAL SCHEDULES

TRUE WARM & WELCOME 2300 R4

1. VERIFY QUANTITIES AND REQUIREMENTS OF ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
2. ALL TELEPHONE/DATA/TV CABLES AND WIRES, TERMINATIONS AND ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY A THIRD PARTY.
3. POWER SUPPLY FOR COMPUTER AND CASH REGISTER (86A AND 94) SHALL BE ON THE SAME CIRCUIT BREAKER, WITH AN ISOLATED GROUND & ORANGE RECEPTACLE.
4. ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
5. ALL INDIVIDUAL BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2017 NEC 210.4(B). MULTI-WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL SHALL ONLY SERVE SINGLE DEVICE CIRCUITS FROM MULT-POLE BREAKERS.
6. TRANSFORMERS SHALL BE MOUNTED ABOVE CEILING AND BELOW TRUSSES WITH LOW VOLTAGE WIRING FEEDING TO ALL EXTERIOR LIGHTS.
7. ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW THE FINISHED FLOOR.

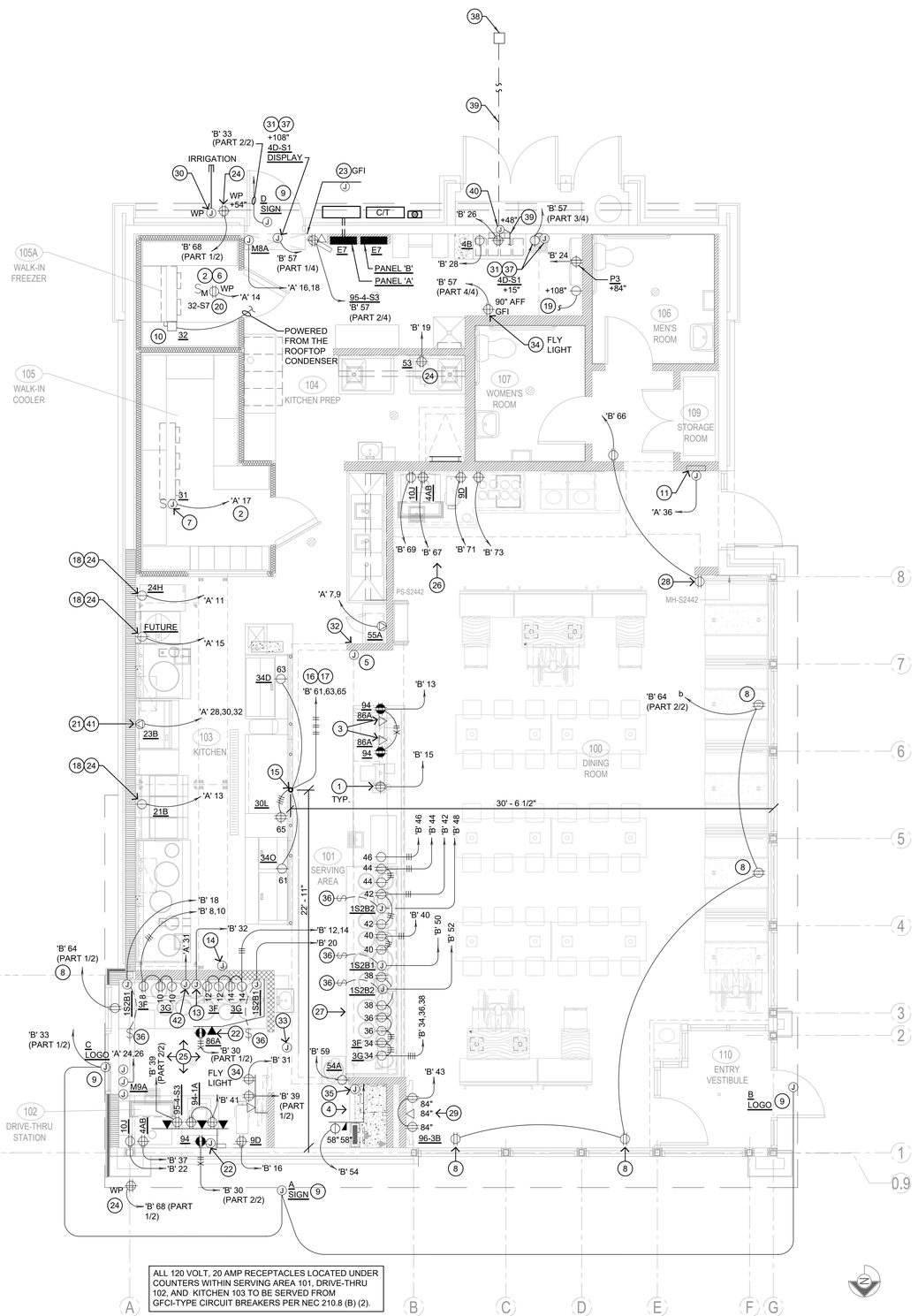
POWER PLAN GENERAL NOTES 2

NOT TO SCALE E-100

1. ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN THE WALL.
2. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREAS OF TEMPERATURE DIFFERENCE. REFER TO DETAIL 6/E-400 FOR ADDITIONAL INFORMATION.
3. PROVIDE (2) 1 1/2" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER'S STATION. SEE P.O.S. AND SERVICE LINE ELEVATIONS, DETAIL 3/E-200.
4. SEE 'MANAGER'S STATION ELEVATION', DETAIL 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", DETAIL 10/E-400.
7. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, DETAIL 8/E-400.
8. SHOW WINDOW RECEPTACLE SHALL BE CONTROLLED VIA SWITCH "b". REFER TO LIGHTING SWITCHBANK SCHEDULE, DETAIL 4/E-101. 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. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR.
10. REFER TO 'FREEZER EVAPORATOR COIL' WIRING DIAGRAM, DETAIL 9/E-400. THE FAN COIL UNIT IS POWERED FROM THE CONDENSER UNIT ON THE ROOF VIA A DISCONNECT CONNECTION. HEAT TAPE IS PROVIDED AND INSTALLED BY THE ELECTRICIAN.
11. PROVIDE KIDDE #FX-64 FIRE ALARM CONTROL PANEL OR APPROVED EQUAL. ELECTRICAL CONTRACTOR SHALL INSTALL CONTROL PANEL AND WIRE RTU'S, MAU AND GREASE HOOD EXHAUST FANS TO THE PANEL. UPON ACTIVATION OF ANY DETECTOR, PULL STATION OR THE ANSUL SYSTEM THE MECHANICAL EQUIPMENT INDICATED ABOVE SHALL BE SHUT DOWN. PROVIDE (4) 3/4" EMPTY CONDUITS WITH PULL STRINGS STUBBED ABOVE THE CEILING. ADDITIONAL DEVICES WILL BE SUPPLIED UNDER A SEPARATE CONTRACT WITH PANDA EXPRESS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE BACK BOXES AND CONDUIT AS REQUIRED.
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 SHEETS 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 CONDUIT IN SLAB.
17. UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ALONG LOW WALL PANEL.
18. ALL DEVICES UNDER HOOD TO BE PROVIDED WITH SHUNT TRIP CIRCUIT BREAKERS AND WATER- PROOFING BOX (RED DOT#CKSUV) REFER TO COOKLINE ELECTRICAL ELEVATIONS, DETAIL 6/E-200. ROUTE HOMERUN THROUGH CONTACTOR INTERFACED WITH THE HOOD FIRE SUPPRESSION SYSTEM. REFERENCE DETAIL 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 GRILL '23B': FEED WITH 3#8, #10 GROUND, 3/4" CONDUIT. REFER TO DETAIL 4/E-200.
22. SEE DRIVE-THRU ELEVATION 2/E-200 FOR CONDUIT SIZES AND CONFIGURATIONS.
23. FURNISH AND INSTALL (1) HUBBELL GFSTBF20 FACELESS GFCI (OR EQUIVALENT) FOR GRILLE '23B', FASTEN A PLASTIC LABEL STATING CIRCUIT AND EQUIPMENT SERVED. REFER TO DETAIL 9/E-200 FOR MOUNTING LOCATION.
24. PROVIDE WATERPROOF COVER, IN-USE, RED DOT (#CKSUV).
25. SEE DRIVE-THRU ELEVATIONS, DETAIL 2/E-200.
26. SEE DRINK STATION ELEVATION, DETAIL 5/E-200.
27. SEE SERVICE LINE ELEVATIONS, DETAIL 3/E-200.
28. SEE DEVICE/RECEPTACLE SCHEDULE 3/E-400.
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 AND UP TO EMPTY FLUSH MOUNTED JUNCTION BOX @ 54" A.F.F. (FOR IRRIGATION CONTROLS). CLOSE OFF CONDUIT IN LANDSCAPE AREA WITH REMOVABLE CAP. UTILIZE CIRCUIT 'B'-56 NEAR ENTRY POINT.
31. REFER TO DETAIL #9/E-200 FOR LOCATION/INSTALLATION OF CO2 MONITOR.
32. SEE SWITCH BANK ELEVATION , DETAIL 7/E-200.
33. MOUNT CAPTIVEAIRE SENSOR ON SOFFIT NEAR DRIVE-THRU. COORDINATE LOCATION WITH MECHANICAL. REFER TO DETAIL M-401 FOR ADDITIONAL INFORMATION.
34. FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK OUTLET. TYPICAL FOR ALL LOCATIONS.
35. SEE SECURITY KEY PAD ELEVATION, DETAIL 1/E-200.
36. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
37. 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 A FULLY WORKING SYSTEM.
38. 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/E-105.
39. PROVIDE 1" CONDUIT FOR CABLE DEDICATED FOR ENTIRE STORE FROM IN-GRADE 8"X8" QUAZITE BOX TO EXTERIOR CLOSET 6"X6" FLUSH MOUNTED JUNCTION BOX. TERMINATE INTERIOR CONDUIT ABOVE THE CEILING.
40. PROVIDE FLUSH MOUNTED NEMA 1, 6"X6" JUNCTION/PULL BOX AT +48" - HUBBELL OR EQUAL. ROUTE CABLE FROM EXTERIOR 6"X6" JUNCTION BOX IN 1" CONDUIT THROUGH BUILDING. TERMINATE INTERIOR ABOVE CEILING.
41. PROVIDE NORTH SHORE SAFETY 30AMP, 3 PHASE GFCI DEVICE (OR EQUAL) IN-LINE WITH THE '23B' ELECTRIC GRILLE.
42. FIRE SUPPRESSION SHUTDOWN CONTACTOR MOUNTED ABOVE CEILING. REFER TO DETAIL 13/E-400.

(#) POWER PLAN KEYED NOTES 3

NOT TO SCALE E-100



POWER FLOOR PLAN 1

Scale: 1/4"=1'-0" E-100

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	CO2 REVISIONS

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DRAWN BY: N. NGUYEN

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

SEAN PATRICK POWELL REGISTERED No.PE11800680 STATE OF PROFESSIONAL ENGINEER
2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-100

POWER FLOOR PLAN

TRUE WARM & WELCOME 2300 R4

- 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 DRIVERS 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, THIS SHEET.
2. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCHES AS NOTED IN LOWER CASE). REFER TO SCHEDULE, THIS SHEET FOR ADDITIONAL INFORMATION.
3. ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M4' FOR CIRCUIT POWER. REFER TO DETAIL 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" AFF. REFER TO DETAILS 8/A-402 AND 9/A-402 FOR ADDITIONAL 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, DETAIL 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', DETAIL 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/E-200.
11. LED TRANSFORMER FOR LED ROPE LIGHT. MOUNT ABOVE CEILING.
12. DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT 150" AFF.
13. PROVIDE JUNCTION BOX ABOVE CEILING FOR THE BZ-150 UNIVERSAL POWER PACK REQUIRED FOR THE (2) EXTERIOR MOTION CONTROLED LED (L97) 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 MOUNTD JUNCTION BOX AT +142" FOR THE INSTALLATION OF THE LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR FOR EXTERIOR MOTION CONTROL SECURITY FIXTURES (L97), 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 THE MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
15. 'X1' AND 'X2' ARE THE LOW VOLTAGE CONNECTIONS FROM THE LIGHTSAVOR SWITCHING PHOTOSENSOR TO THE EXTERIOR LED (L97) FIXTURES.
16. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK "A" (SWITCH AS NOTED IN LOWER CASE). REFER TO SCHEDULE, THIS SHEET FOR ADDITIONAL INFORMATION.
17. CONNECT TO VEGETABLE DISPLAY LIGHTING PROVIDED WITH THE WALK-IN COOLER.
18. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREAS OF TEMPERATURE DIFFERENCE. REFER TO DETAIL 6/E-400 FOR WIRING NOTES AND ADDITIONAL INFORMATION.

LIGHTING KEYED NOTES 3

NOT TO SCALE E-101

NOTE:
FIXTURES TO BE ROUTED VIA TIME TIMECLOCKS ARE SHOWN ON DETAIL 11/E-400.

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)
$D	$	$	$	$
BACK OF HOUSE LTG, EXH. FAN AND RECIRC PUMP	SHOW WINDOW RECEPTS	WALK-IN LTG, MENU LED ACCENTS	SERVING LINE SOFFIT	DINING PENDANTS

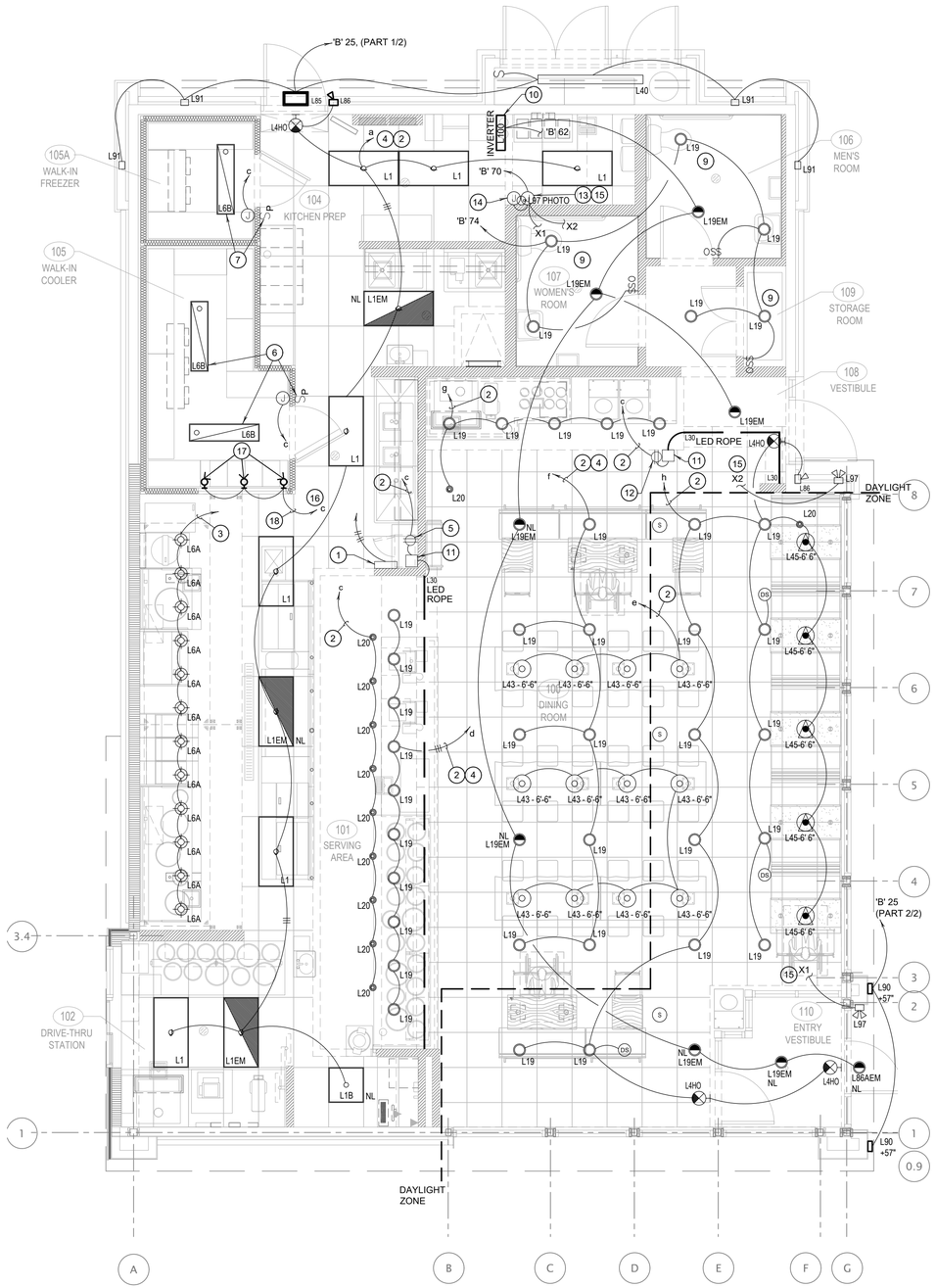
(f)	(g)	(h)	(i)	60: 00
$	$	$	$	
INTERIOR DINING	BEVERAGE COUNTER	DAYLIGHT HARVEST ZONE	SPARE	INTERIOR LIGHTING SHUT DOWN OVERRIDE

SWITCHBANK SCHEDULE 'A'

TAG	SWITCH TYPE	AREA SERVED / SWITCH LABEL	CIRCUIT	LOAD
a	TOGGLE SWITCH	BACK-OF-HOUSE / RR FANS	'B' 60	530 VA
b	TOGGLE SWITCH	SHOW WINDOW RECEP	'B' 64	1000 VA
c	TOGGLE SWITCH	WALK-INS, MENU, LED ACCENTS	'B' 58	275 VA
d	TOGGLE SWITCH	SERVING LINE SOFFIT	'B' 60	140 VA
e	TOGGLE SWITCH	DINING PENDANTS	'B' 62	108 VA
f	TOGGLE SWITCH	INTERIOR DINING	'B' 62	118 VA
g	TOGGLE SWITCH	BEVERAGE COUNTER	'B' 62	16 VA
h	TOGGLE SWITCH	DAYLIGHT HARVESTING ZONE	'B' 62	219 VA
i	TOGGLE SWITCH	SPARE		
	INTERIOR LIGHTING SHUTDOWN OVERRIDE SWITCH			

LIGHTING SWITCHBANK SCHEDULE 4

NOT TO SCALE E-101



LIGHTING FLOOR PLAN 1

Scale: 1/4"=1'-0" E-101

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:

STATE PERMIT SET	02/10/2021

DRAWN BY: N. NGUYEN

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

SEAN PATRICK PICKWELL REGISTERED No.PE11800680 STATE OF INDIANA PROFESSIONAL ENGINEER
2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-101

LIGHTING FLOOR PLAN

TRUE WARM & WELCOME 2300 R4

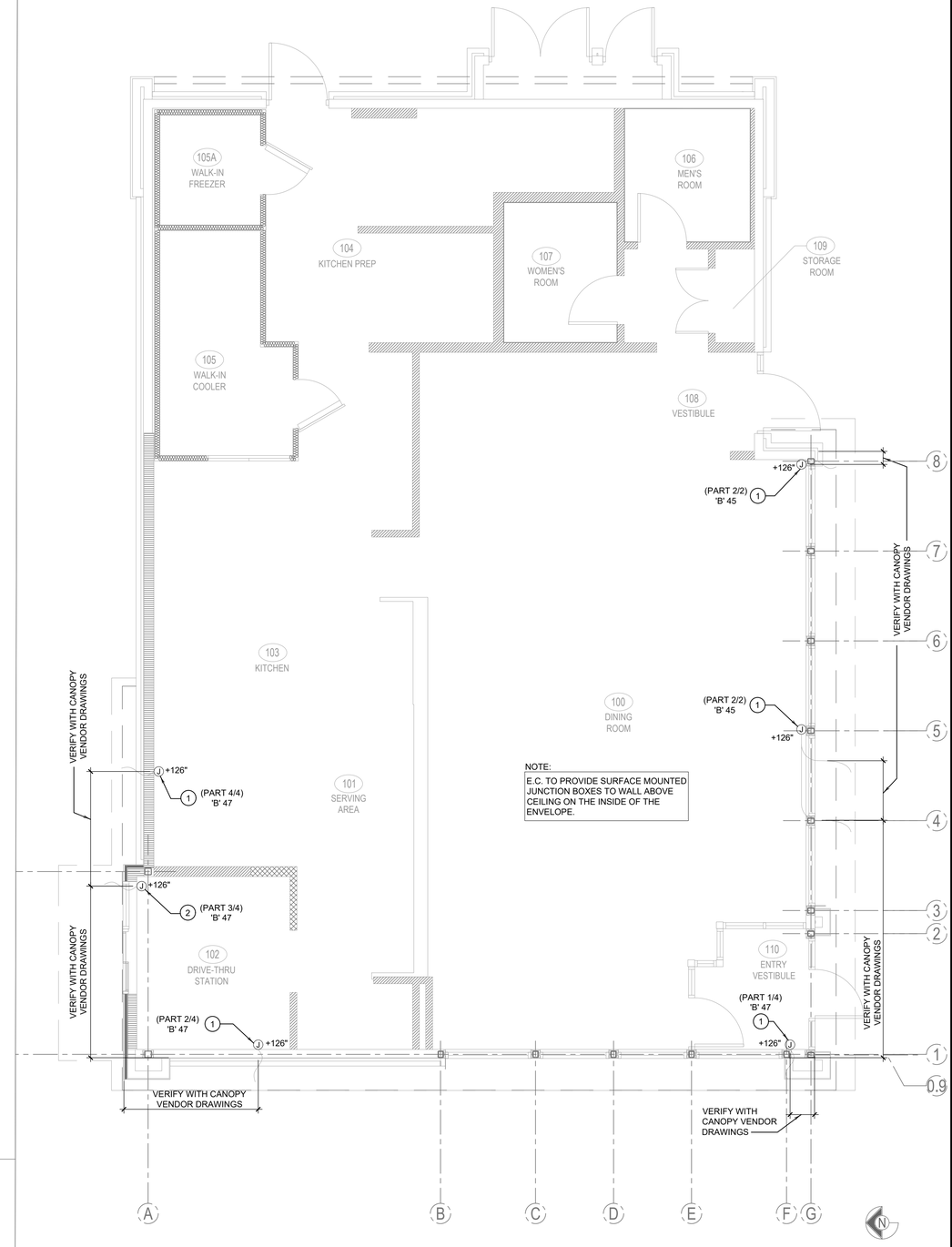
NOTES:
1) WIRING FOR CANOPY LIGHTING IS SIMILAR. JUNCTION BOXES, TRANSFORMERS AND CONDUIT THRU WALL SHALL BE INSTALLED ABOVE THE LAY-IN CEILING.

2) REFER TO GREENHECK DRAWINGS FOR ADDITIONAL DETAILS AND INFORMATION.

LIGHTED VERTICAL FIN / CANOPY DETAIL | 3
NOT TO SCALE | E-101.1

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.

Ⓔ 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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NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-101.1

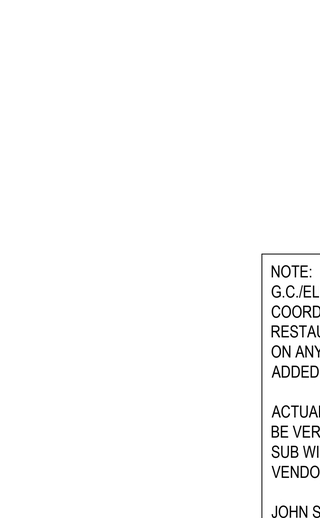
CANOPY LIGHTING PLAN

TRUE WARM & WELCOME 2300 R4

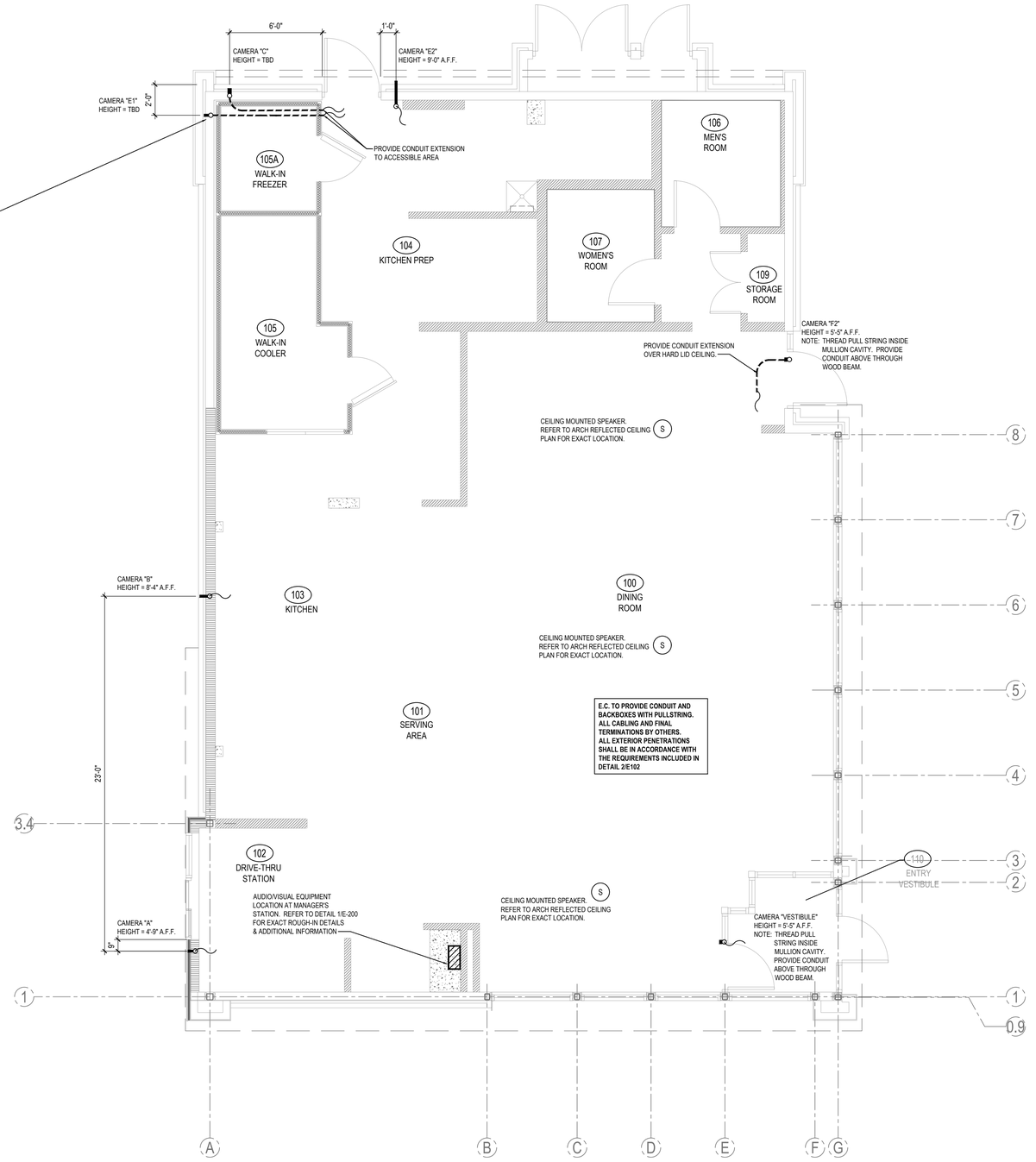
NOTE:
G.C./ELECTRICAL SUB TO COORDINATE WITH PANDA RESTAURANT PROJECT MANAGER ON ANY CAMERA LOCATIONS TO BE ADDED AND/OR OMITTED.

ACTUAL QUANTITY OF CAMERAS TO BE VERIFIED BY G.C./ELECTRICAL SUB WITH THE FOLLOWING CAMERA VENDOR CONTACT.

JOHN STRAIN
INTERFACE SECURITY SYSTEMS
PHONE: 314-708-9878
EMAIL: john.strain@interfacesys.com



CONDUIT ROUGH-IN DETAIL 2
NOT TO SCALE E-102



SECURITY CAMERA PLAN 1
Scale= 1/4" = 1'-0" E-102

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NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-102

SECURITY CAMERA PLAN

- 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 MOUNTED SMOKE DETECTORS AS REQUIRED BY MECHANICAL DRAWING M-100.
- 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. SHALL COORDINATE ELECTRICAL, MECHANICAL AND 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. 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. PROVIDE CIRCUIT FEEDS FROM PANELBOARD - THROUGH HOOD CONTROL PANEL - UP TO ROOF. REFER TO DETAIL 3/E-401 AND 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 2/E-401.
6. NOT USED.
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 ON CONDENSER RACK DISCONNECT SWITCH SUPPORT. REFER TO DETAIL 2/E-401.
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
RTU-1	A/C UNIT			26.0	208V.3Ø	3 #8, #10 GND., 1" C.	☐	AT UNIT	60A. 3P. NF. WP (1) (4)
RTU-2	A/C UNIT			48.0	208V.3Ø	3 #6, #10 GND., 1" C.	☐	AT UNIT	60A. 3P. NF. WP (1) (4)
RTU-3	A/C UNIT			48.0	208V.3Ø	3 #6 #10 GND., 1" C.	☐	AT UNIT	60A. 3P. NF. WP (1) (4)
MA-1	MAKE-UP AIR UNIT		5.0	15.0	208V.3Ø	3 #10, #12 GND., 3/4" C.	☐	AT UNIT	(1) (4)
EF-1	EXHAUST FAN		2.0	5.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐	AT UNIT	(1)
EF-2	EXHAUST FAN		2.0	5.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐	AT UNIT	(1)
EF-3	EXHAUST FAN		1/4	4.8	120V.1Ø	2 #12, #12 GND., 3/4" C.	☐	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.	☒	AT UNIT	(2) (3)
32-S1	W/I FREEZER COND.			32.0	208V.1Ø	2 #8, #8 GND., 3/4" C.	☒	AT UNIT	30A. 2P. 2F. WP (3)
10J-S1	DRIVE THRU ICE MACHINE CONDENSER			11.7	208V.1Ø	2 #12, #12 GND., 3/4" C.	☒	AT UNIT	(2) (3)

(1) DISCONNECT SWITCH PROVIDED WITH UNIT.

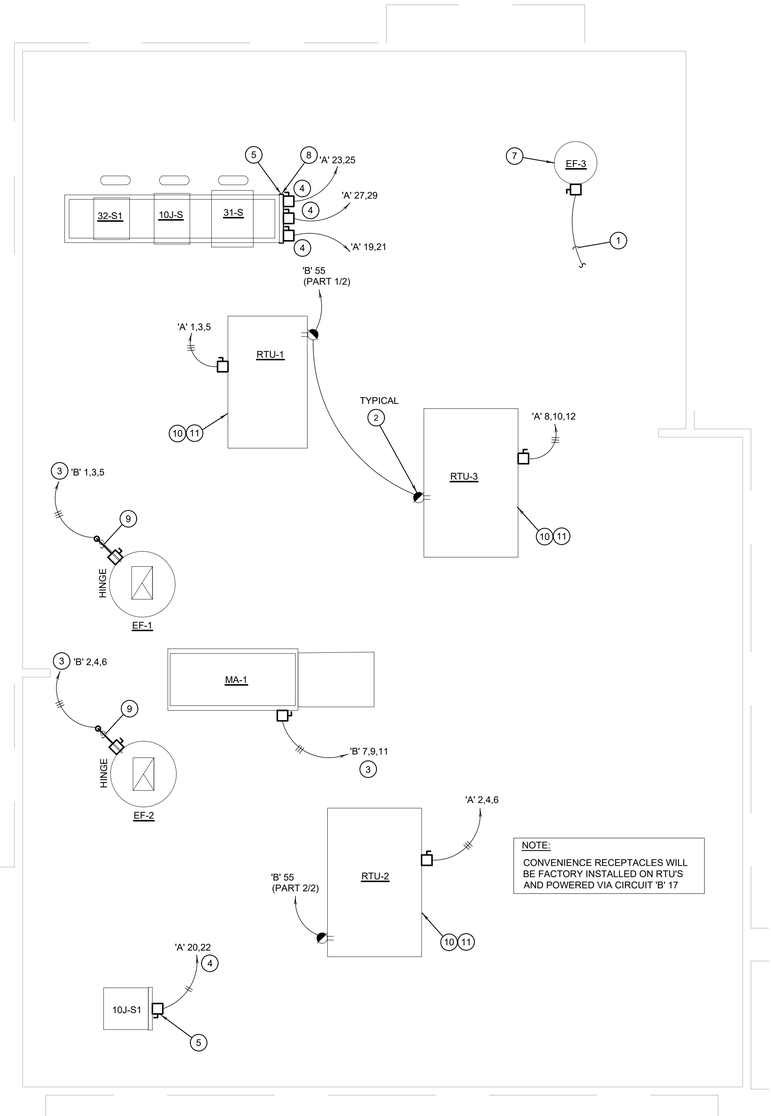
(2) COMBINATION 30A. 2P. 2F. WP DISCONNECT SWITCH WITH RK5 FUSES PER MANUFACTURER'S RECOMMENDATION.

(3) COMBINE CIRCUITRY IN 1" CONDUIT FROM J-BOX ON EQUIPMENT DISCONNECT SWITCH SUPPORT. REFER TO DETAIL 1/E-104, THIS SHEET.

(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

PANDA EXPRESS, INC.
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DRAWN BY: N. NGUYEN

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

BENJAMIN PATRICK PICKELL REGISTERED No.PE11800580 STATE OF ARIZONA PROFESSIONAL ENGINEER
2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-104

ROOF POWER PLAN

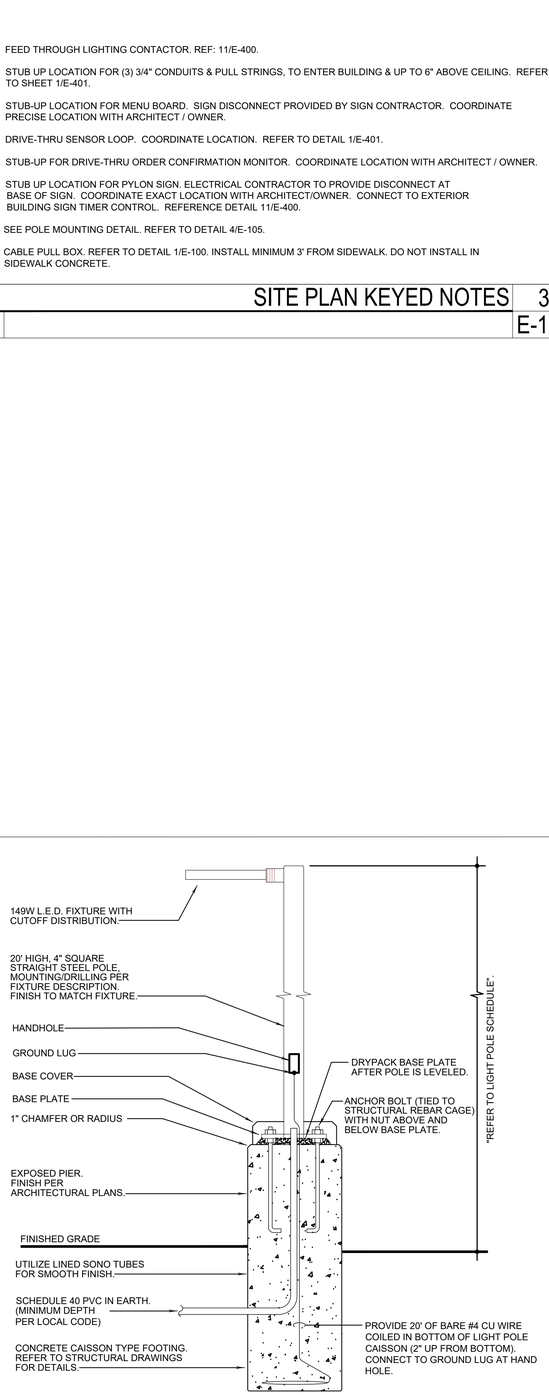
TRUE WARM & WELCOME 2300 R4

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. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT BASE OF SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. CONNECT TO EXTERIOR BUILDING SIGN TIMER CONTROL. REFERENCE DETAIL 11/E-400.
7. SEE POLE MOUNTING DETAIL. REFER TO DETAIL 4/E-105.
8. CABLE PULL BOX. REFER TO DETAIL 1/E-100. INSTALL MINIMUM 3' FROM SIDEWALK. DO NOT INSTALL IN SIDEWALK CONCRETE.

#	SITE PLAN KEYED NOTES	3
		E-105

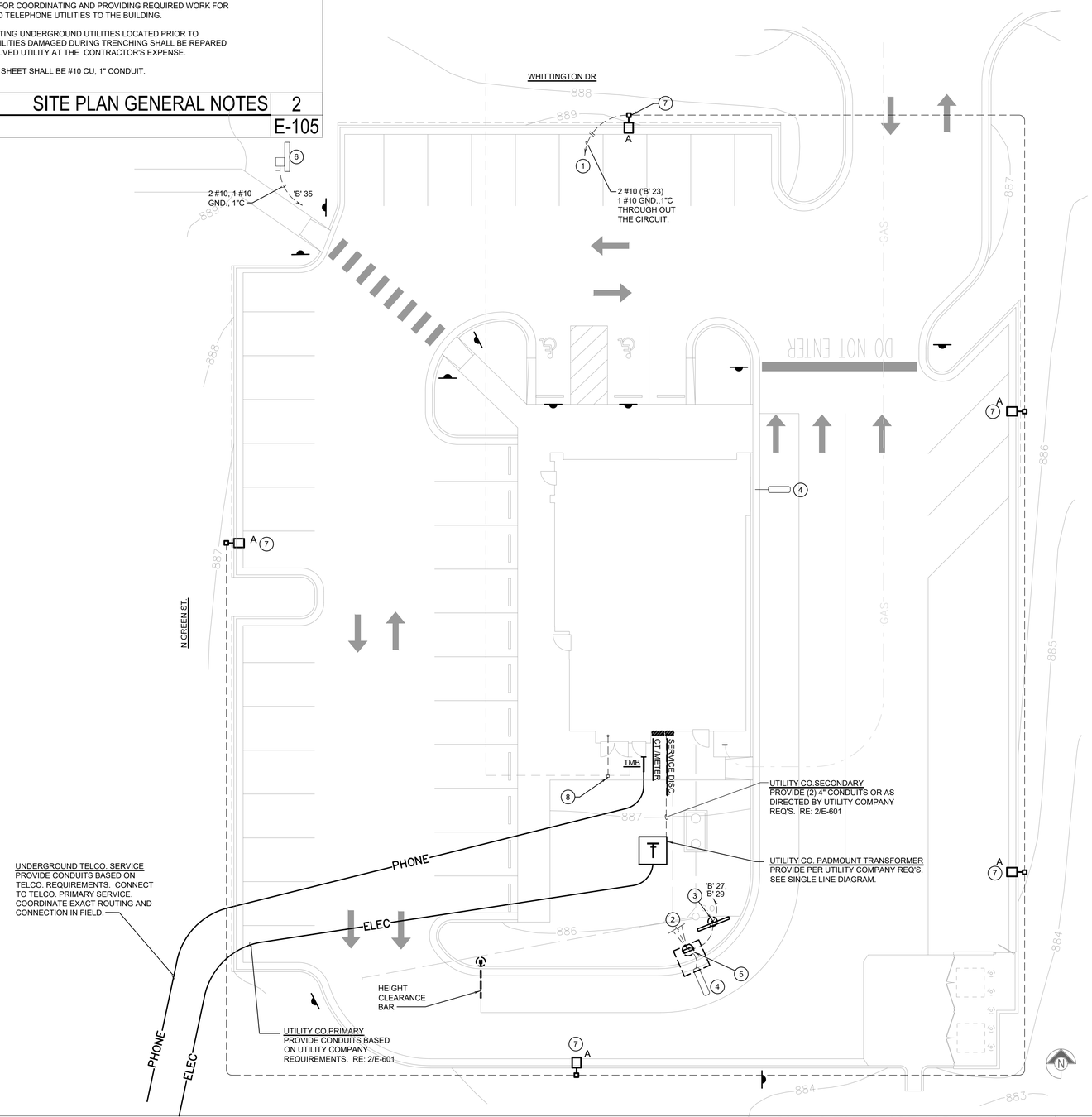
- COORDINATE SERVICE ENTRANCE EQUIPMENT, UTILITY TRANSFORMER, PRIMARY SERVICE, SECONDARY SERVICE AND POWER POLE LOCATIONS WITH SERVING UTILITY COMPANY AND COMPLY AS REQUIRED.
- CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND TELEPHONE UTILITIES TO THE BUILDING.
- CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED PRIOR TO TRENCHING. ALL UNDERGROUND UTILITIES DAMAGED DURING TRENCHING SHALL BE REPARED TO THE SATISFACTION OF THE INVOLVED UTILITY AT THE CONTRACTOR'S EXPENSE.
- MINIMUM CONDUCTOR SIZE ON THIS SHEET SHALL BE #10 CU, 1" CONDUIT.

	SITE PLAN GENERAL NOTES	2
		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

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2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-105
SITE & EXTERIOR LIGHTING PLAN

Symbol	Label	QTY	Catalog Number	Description	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	A	5	SLM-LED-18L-SIL-FT-40--70CRI-IL	CONTACT RYAN ZINSELMEIER- 314-531-2600	1	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	148.5
	L85	1		VL305	1	L85 - VL305.ies	3290	1	27.9
	L86	1	MLED1	MOLDED WHITE PLASTIC HOUSING, TWO MOLDED WHITE PLASTIC SWIVEL HEAD ASSEMBLY CONSISTS OF: MOLDED WHITE PLASTIC HOUSING, ONE CIRCUIT BOARD WITH 12 LEDS, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND ONE APERTURE PER LED, CLEAR PRISMATIC PLASTIC LENS. ONLY ONE HEAD ASSEMBLY ENERGIZED FOR THIS TEST.	12	L86 - MLED1 (1).IES	5	1	0.788
	L90	2	1649XX-LED	Wall Lantern	1	L90.ies	197	1	12.1
	L91	4	SQL6630KMVDCMCLR	(CUSTOMER DESCRIPTION) 6" SQUARE CYLINDER, 43W, CLEAR ALZAK FINISH REFLECTOR, MEDIUM BEAM.	1	SQL6630KMVD CMCLR.IES	3597	0.29	43

SITE LIGHTING FIXTURE SCHEDULE 3

NO SCALE E-106

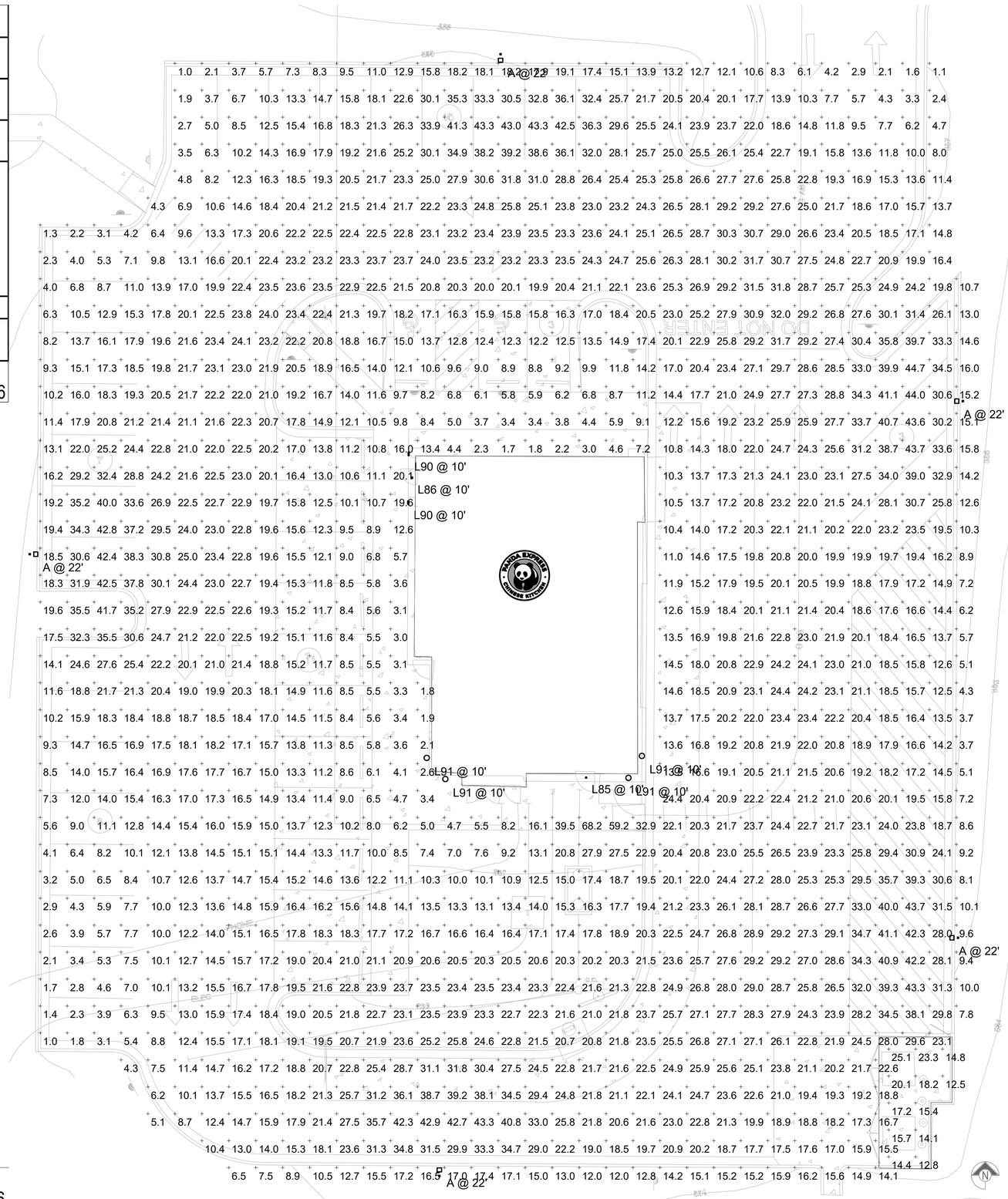
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CALC SUMMARY- PAVED SURFACE	+	19.1 lux	68.2 lux	1.0 lux	68.2:1	19.1:1
TRASH ENCLOSURE	+	17.0 lux	25.1 lux	12.5 lux	2.0:1	1.4:1

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

PANDA SITE LIGHTING DESIGN CRITERIA 2

NO SCALE E-106



SITE PHOTOMETRIC PLAN 1

N.T.S. E-106

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ARCH PROJECT #: JCDT20-0255

SEAN PATRICK PICKELL
REGISTERED
No.PE11800580
STATE OF
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2-10-21

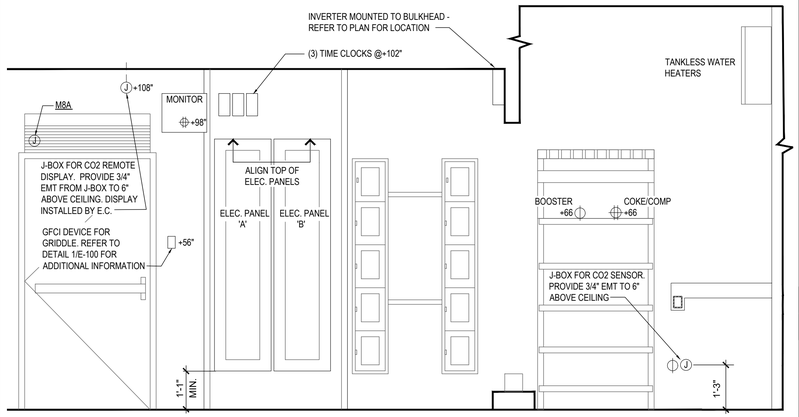
NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-106

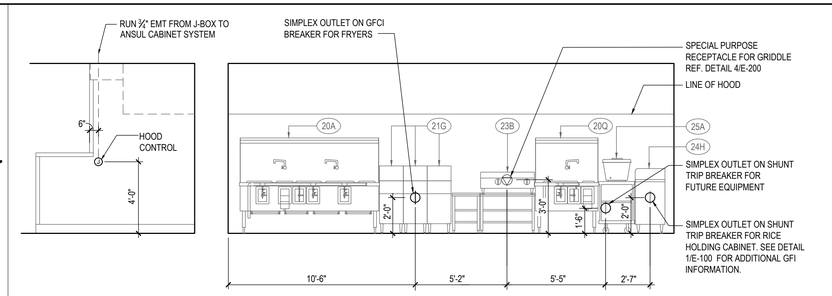
SITE PHOTOMETRIC PLAN

TRUE WARM & WELCOME 2300 R4



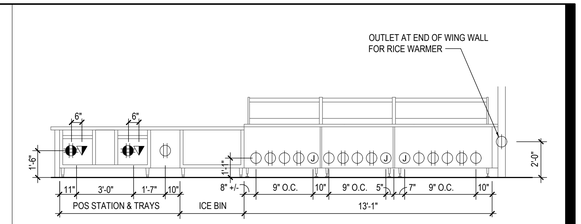
BOH REAR WALL ELEVATION | 9

NOT TO SCALE | E-200



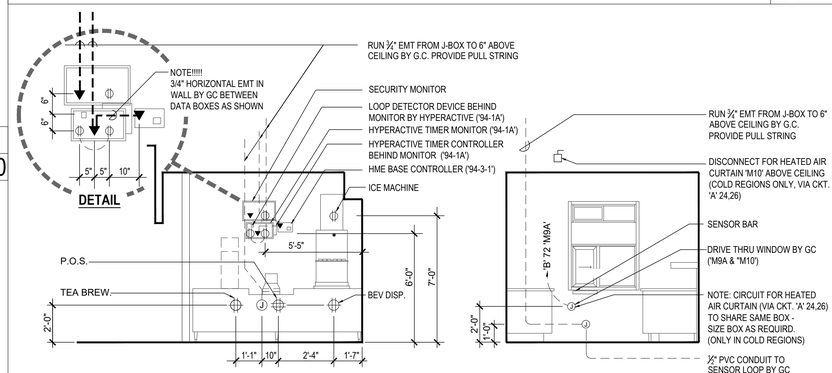
COOKLINE ELECTRICAL ELEVATIONS | 6

NOT TO SCALE | E-200



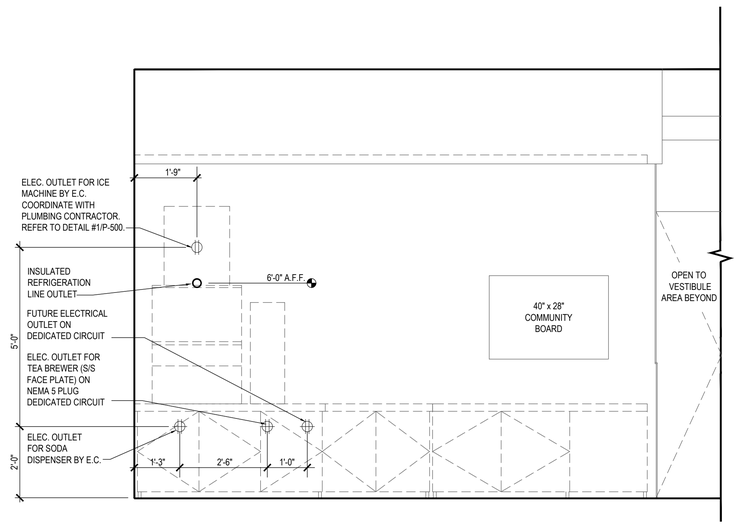
P.O.S. & SERVICE LINE ELEVATION | 3

E-200



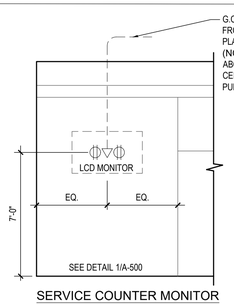
DRIVE-THRU ELEVATIONS | 2

Scale: approx. 1/4"=1'-0" | E-200



DRINK STATION ELEVATIONS | 5

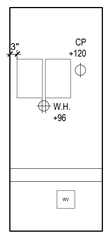
NOT TO SCALE | E-200



SERVICE COUNTER MONITOR

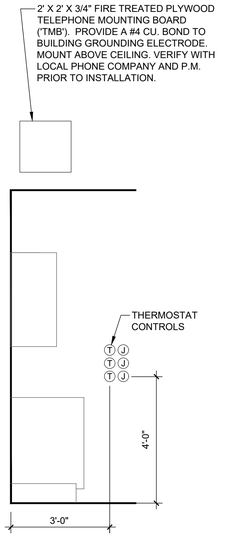
MONITOR ELEVATION | 8

NOT TO SCALE | E-200

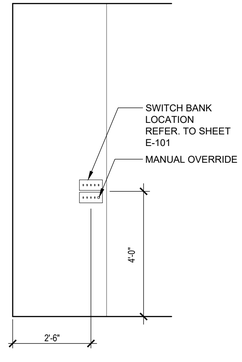


WATER HEATER ELEV. | 10

NOT TO SCALE | E-200

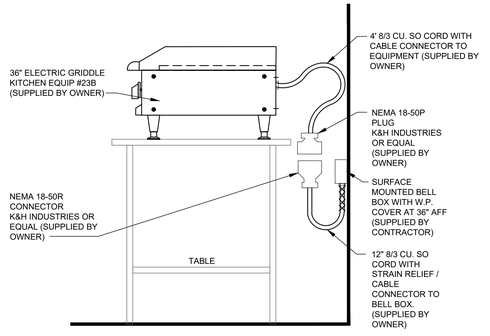


RIGHT SIDE ELEVATION



SWITCH BANK ELEV | 7

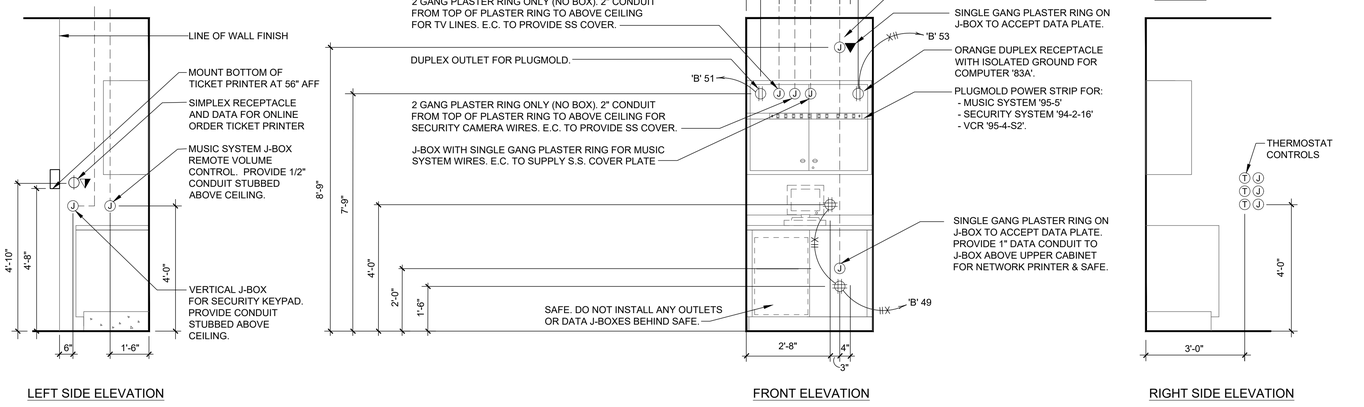
NOT TO SCALE | E-200



CIRCUIT GRIDDLE TO 40/3 SHUNT TRIP CIRCUIT BREAKER AND CONNECT TO IN-LINE GFCI DEVICE, RE 9/E-400 FEED WITH 3 #8, #10 GROUND, 1" CONDUIT.

GRIDDLE 23B (EG-24H) | 4

NOT TO SCALE | E-200



LEFT SIDE ELEVATION

FRONT ELEVATION

MANAGER STATION ELEVATIONS | 1

NOT TO SCALE | E-200

PANDA EXPRESS, INC.
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91770
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REVISIONS:

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	STATE PERMIT SET	02/10/2021

DRAWN BY: N. NGUYEN

PANDA PROJECT #: D8059

ARCH PROJECT #: JCDT20-0255

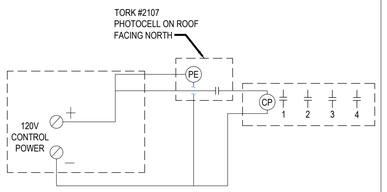
SEAN PATRICK PICKWELL REGISTERED No.PE11900590 STATE OF ILLINOIS PROFESSIONAL ENGINEER
2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

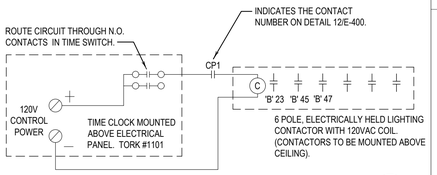
E-200

ELECTRICAL ELEVATIONS

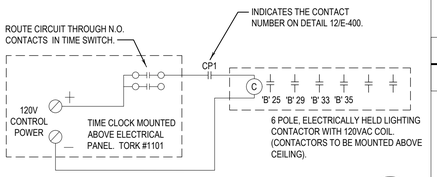


PHOTOCELL/TIME CLOCKS 12

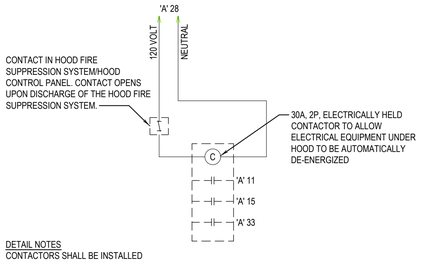
NOT TO SCALE E-400



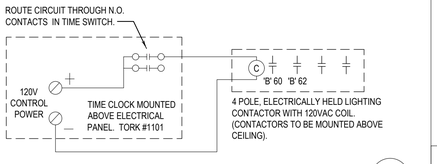
CONTRACTOR TO LABEL TIMECLOCK "PARKING LOT & BUILDING LIGHTS" A



CONTRACTOR TO LABEL TIMECLOCK "DRIVE THROUGH $ EXTERIOR SIGNS" B



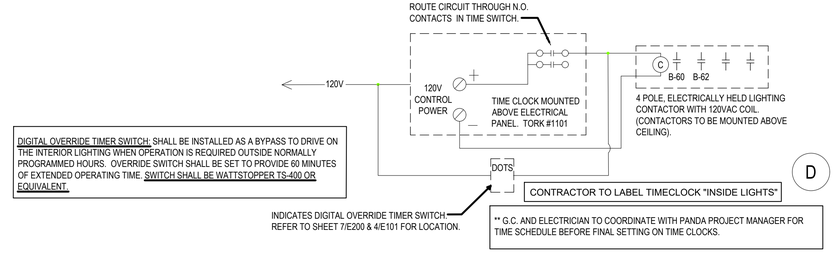
DETAIL NOTES
CONTACTORS SHALL BE INSTALLED IN A SINGLE ENCLOSURE AND THE ENCLOSURE SHALL BE INSTALLED ABOVE THE KITCHEN CEILING.



CONTRACTOR TO LABEL TIMECLOCK "INSIDE LIGHTS" C

FIRE SUPPRESSION SHUTDOWN 13

NOT TO SCALE E-400



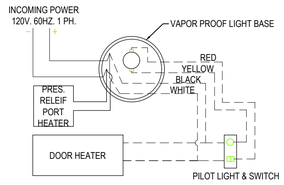
DIGITAL OVERRIDE TIMER SWITCH: SHALL BE INSTALLED AS A BYPASS TO DRIVE ON THE INTERIOR LIGHTING WHEN OPERATION IS REQUIRED OUTSIDE NORMALLY PROGRAMMED HOURS. OVERRIDE SWITCH SHALL BE SET TO PROVIDE 60 MINUTES OF EXTENDED OPERATING TIME. SWITCH SHALL BE WATTSTOPPER TS-400 OR EQUIVALENT.

CONTRACTOR TO LABEL TIMECLOCK "INSIDE LIGHTS" D

** G.C. AND ELECTRICIAN TO COORDINATE WITH PANDA PROJECT MANAGER FOR TIME SCHEDULE BEFORE FINAL SETTING ON TIME CLOCKS.

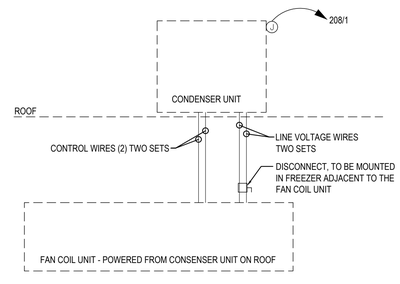
TIME CLOCKS 11

NOT TO SCALE E-400



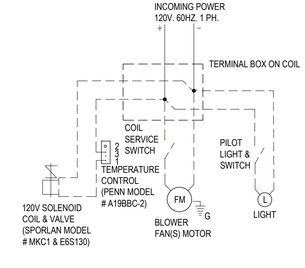
FREEZER LTG & DOOR HTR WIRING DIAGRAM 10

NOT TO SCALE E-400



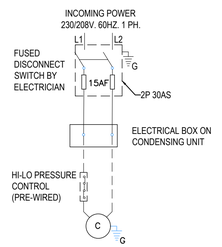
FREEZER EVAPORATOR COIL 9

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.

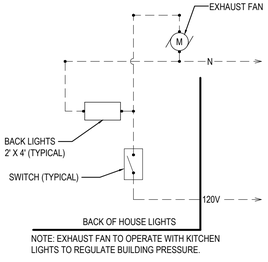
2. CHECK VOLTAGE ON CONDENSING UNIT AND EVAPORATOR COIL BEFORE ANY WORK IS DONE.

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 DIAGRAM NOTES 6

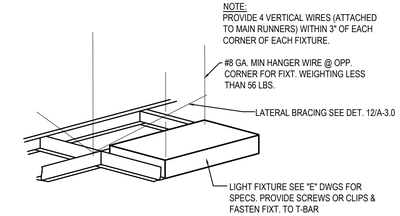
NOT TO SCALE E-400



NOTE: EXHAUST FAN TO OPERATE WITH KITCHEN LIGHTS TO REGULATE BUILDING PRESSURE.

EXHAUST FAN CONTROL DIAGRAM 5

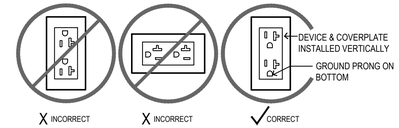
NOT TO SCALE E-400



LIGHT FIXTURE DETAIL 4

NOT TO SCALE E-400

DEVICE ORIENTATION

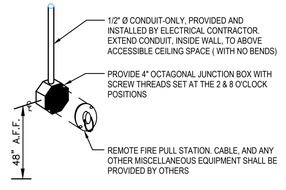


DEVICE & COVERPLATE COLOR

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	--

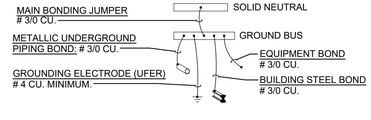
RECEPT. DIAGRAM 3

NOT TO SCALE E-400



ANSUL PULL STATION DETAIL 2

NOT TO SCALE E-400



SERVICE DISC. GROUNDING DETAIL 1

NOT TO SCALE E-400

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

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DRAWN BY: N. NGUYEN

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

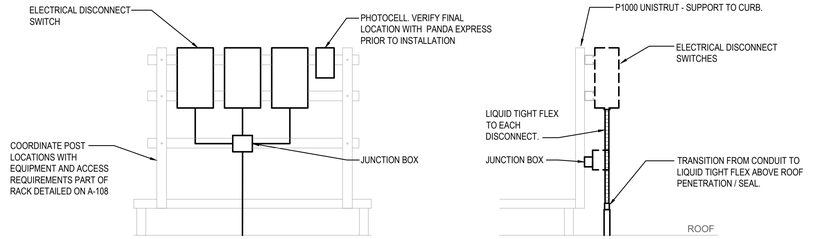
STEN PATRICK PICKELL
No.PE11800600
STATE OF
PROFESSIONAL ENGINEER
2-10-21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-400

ELECTRICAL DETAILS, DIAGRAMS



NOTE: LIQUID TIGHT FLEX TO UNITS AND DISCONNECTS NOT SHOWN FOR CLARITY.

NOTE:
ELECTRICAL CONTRACTOR TO PROVIDE (3) HORIZONTAL PIECES OF UNISTRUT THAT MOUNT TO VERTICAL PIECES OF RACK. RACK PROVIDED BY OTHERS. REFER TO ARCHITECTURAL DETAILS ON A-108 FOR ADDITIONAL INFORMATION.

EQUIPMENT DISCONNECT SWITCH SUPPORT 2

NOT TO SCALE E-401

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE
4600376	SC-321110FP-SEP		INSTALL
	JOB NAME: Panda Express - Crown Point I...	DATE: 11/9/2020	DWG NO: ECP #1-1

DESCRIPTION OF OPERATION:
3 Phase w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fan(s) On/Off Thermostatically Controlled. Separate Breaker Input for each Fan. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

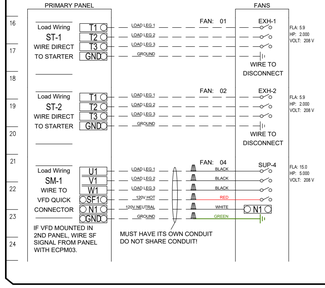
BREAKER PANEL TO PRIMARY CONTROL PANEL

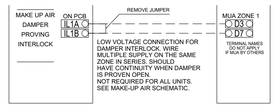
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

CONTROL PANEL TO FANS

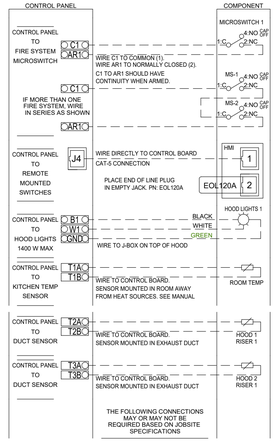
Responsibility: Electrician

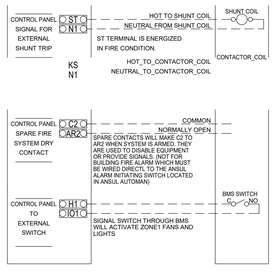




CONTROL PANEL TO ACCESSORY ITEMS

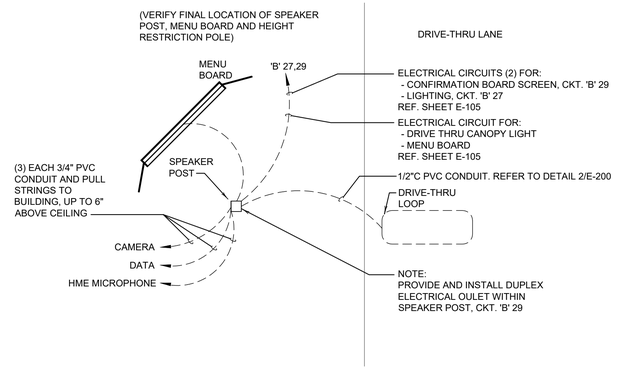
Responsibility: Electrician





KITCHEN EXHAUST SYSTEM DIAGRAM 3

NOT TO SCALE E-401



MENU BOARD & SENSOR LOOP 1

NOT TO SCALE E-401

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

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PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

SEAN PATRICK MICKELL — REGISTERED — No.PE91800690 — STATE OF — PROFESSIONAL ENGINEER
2-10-21

NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-401

ELECTRICAL DETAILS, DIAGRAMS

PANELBOARD A SCHEDULE

VOLTAGE: 208Y/120V MAINS 600 MLO MOUNTING RECESSED REMARKS: PROVIDE GROUND BAR & ISOLATED GROUND BAR
BUS SIZE: 600 AMP TOTAL LOAD 151.8 KVA

No.	SERVES	WIRE SIZE	LOAD (KVA) LTG	RCPT	MTR	A/C	HTG	KITCH	BRKR TRIP	P	PH A B C	P	BRKR TRIP	KITCH	HTG	A/C	MTR	RCPT	LTG	WIRE SIZE	SERVES	No.
1						3.1										5.8						2
3	RTU-1	8				3.1			40	3		3	60			5.8				6	RTU -2	4
5						3.1										5.8						6
7	MICROWAVE '55A' (1)	12						1.4	15	2						5.8						8
9								1.4				3	60			5.8				6	RTU-3	10
11	RICE HOLDING CABINET '24H' (1,4,6)	10							20	1						5.8						12
13	FRYER MJ345 '21B' (1,6)	12						1.0	20	1		1	20		0.5					12	HEAT WRAP '32-S7' (5)	14
15	FUTURE CONTROLS (1,6)	12						0.3	20	1		2	30		3.0					10	REAR DOOR CHF-25 'M8A'	16
17	WALK-IN COOLER COIL '31' (1)	12			0.5				20	1					3.0						HEATED AIR CURTAIN	18
19	ICE MACHINE COND. '10J-S' (1)	12			1.2				20	2		2	20				1.2			12	ICE MACHINE COND '10J-S1' (1)	20
21	(BEVERAGE STATION)				1.2												1.2				(DRIVE THRU)	22
23	WALK-IN FREEZER COND. '32-S1' (1,7)	8			3.3				40	2		2	30		3.0					10	DRIVE-THRU HEATED	24
25					3.3										3.0						CHF-25 AIR CURTAIN 'M9B'	26
27	WALK-IN COOLER COND. '31-S' (1,7)	12			2.8				35	2				3.0								28
29					2.8							3	40	3.0						8	GRILLE '23B' (1,6)	30
31	FIRE SUPPRESSION SYSTEM (9)	12						0.4	20	1				3.0								32
33	SPARE								20	1		1									(SHUNT)	34
35	SPARE								20	1		1	20					0.4		12	FIRE ALARM PANEL (9)	36
37	SPACE									1		1									SPACE	38
39	SPACE									1		1									SPACE	40
41	SPACE									1		1									SPACE	42
43																						44
45																						46
47	PANEL "B"		10.3	9.2	12.1	0.0	0.4	31.8	225	3											UNUSABLE SPACE	48
49																						50
51																						52
53																						54
														45.3	12.9	44.1	29.6	9.6	10.3		CONNECTED KVA 151.8	
																					NEC KVA 151.5	
																					AMPS 420.6	

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, 11/E-400.
4. WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER THE NEC.
5. PROVIDE GROUND FAULT EQUIPMENT PROTECTION (GFEP) TYPE CIRCUIT BREAKER FOR HEAT TAPE.
6. GFCI BREAKER.
7. INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).
8. CIRCUIT TO BE ROUTED THROUGH HOOD SHUNT-TRIPPED CONTACTOR.
9. INSTALL LOCK-ON DEVICE.

Service Entrance Load summary

Lighting	10.30 x	125%			=	12.88	KVA
Receptacles	9.60 x	100% +	0.00 x	50%	=	9.60	KVA
Motor	29.60 x	100% +	5.4 x	125%	=	36.35	KVA
Heating	12.90 x	100% +	0		=	12.90	KVA
AC	44.1 x	100% +	0		=	44.10	KVA
Kitchen	45.30 x	100% +	0 x	100%	=	45.30	KVA
						161.13	KVA
Main Service Entrance Ampere Requiremets						**447.24**	**Amps**
Main Service Fuse size						***OK***	

NOTES:
1) INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVERS. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS ARE NOT ALLOWED.
2. PROVIDE AN ARC FLASH WARNING SIGN FOR EACH PANEL PER NEC 110.16.

PANELBOARD B SCHEDULE

VOLTAGE: 208Y/120V MAINS 225 MLO MOUNTING RECESSED REMARKS: PROVIDE GROUND BAR & ISOLOATED GROUND BAR
BUS SIZE: 225 AMP TOTAL LOAD 63.8 KVA

No.	SERVES	WIRE SIZE	LOAD (KVA) LTG	RCPT	MTR	A/C	HTG	KITCH	BRKR TRIP	P	PH A B C	P	BRKR TRIP	KITCH	HTG	A/C	MTR	RCPT	LTG	WIRE SIZE	SERVES	No.
1					0.7												0.7					2
3	EF-1	12			0.7				15	3		3	15				0.7			12	EF-2	4
5					0.7												0.7					6
7					2.4							1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	8
9	MA-1	10			2.4				30	3		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	10
11					2.4							1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	12
13	SERVICE POS '94', PTR '86A' (2,6)	12		1.1					20	1		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	14
15	SERVING COUNTER	12		0.2					20	1		1	20	1.8						10	DRIVE.THRU ICE TEA BREWER '9D' (1,	16
17	RTU CONVENIENCE RECEPTS	12		0.6					20	1		1	20	0.9						12	RADIENT TOP HEATER '1S2B1' (1)	18
19	FOOD PROCESSOR '53'	10						1.2	20	1		1	20	0.9						12	RADIENT TOP HEATER '1S2B1' (1)	20
21	SPARE								20	1		1	20	0.1						12	DRIVE.THRU ICE MACHINE '10J' (6)	22
23	EXTERIOR LIGHTING POLE (3,4)	10	0.6						20	1		1	20		0.4					12	GAS TANKLESS WTR HEATERS 'P3' (6	24
25	BUILDING LTG/EM (3)	12	0.1						20	1		1	20					0.2		12	COKE CARBONATOR	26
27	MENUBOARD (3), (4)	10	1.5						20	1		1	20					0.9		12	4B' BOOSTER OUTLET	28
29	DRIVE THRU ORDER SCREEN (4)	10	1.0						20	1		1	20					1.1		12	DRIVE THRU POS '94'PTRS '86A' (2,6)	30
31	DRIVE THRU FLY LIGHT	12		0.2					20	1		1	20	0.5						12	HOOD CONTROL PANEL 'M4'	32
33	BUILDING SIGN / LOGO (3)	12	1.0						20	1		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	34
35	MONUMENT SIGN (3,4)	12	0.5						20	1		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	36
37	D.T. 'BEV DISPENSER '4AB' (1),(4)	10						1.1	20	1		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	38
39	SECURITY/POS MONITORS	12		0.1					20	1		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	40
41	HYPERACTIVE TIMER SYSTEM	12		0.1					20	1		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	42
43	DINING TV'S	12		0.3					20	1		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	44
45	CANOPY LIGHTS (3)	12	0.3						20	1		1	20	1.3						10	INDUCT DRY WELL '3F, '3G', - (1,4,6)	46
47	CANOPY LIGHTS (3)	12	0.3						20	1		1	20	0.9						12	RADIENT TOP HEATER '1S2B1' (1)	48
49	FAX '87', MGR '84C', COMP '49A'	12		1.0					20	1		1	20	1.1						12	RADIENT TOP HEATER '1S2B2' (1)	50
51	MUSIC, VCR, MONITOR	12		0.6					20	1		1	20	1.1						12	RADIENT TOP HEATER '1S2B2' (1)	52
53	COMPUTER RECEPT '83A' (2)	12		0.5					20	1		1	20					0.2		12	OLO TICKET PRINTER	54
55	DUCT DETECTORS	12		0.2					20	1		1	20					0.2		12	FUTURE SITE IRRIGATION	56
57	95-4-S3', CO2, FLY LIGHT (1)	12						0.8	20	1		1	20						0.4	12	W-IN CLR DISP LTS/ MENUE BD/ LED	58
59	RICE WARMER '54A' (1)	12						0.1	20	1		1	20				0.2		1.0	10	LTG. - FOOD PREP / EF-3 (4)	60
61	REFRIG PREP TABLE '34O' (1)	12						1.4	20	1		1	20						1.1	12	LIGHTING - DINING AREA	62
63	REFRIG PREP TABLE '34D' (1)	12						1.1	20	1		1	20						1	12	SHOW WINDOW RECEPTACLES	64
65	UNDERCTR FREEZER '30L' (1,4)	10						1.1	20	1		1	20					0.7		12	GENERAL RECEPTACLES	66
67	DINING BEV DISP '4AB' (1,4)	12						1.1	20	1		1	20					0.6		12	EXTERIOR RECEPTACLES	68
69	ICE MACHINE '10J'	12		0.2					20	1		1	20						0.7	12	EXTERIOR MOTION SECURITY LED	70
71	ICE TEA BREWER '9D' (1,4)	12						1.8	20	1		1	20	0.5			0.5			12	DRIVE THRU WINDOW	72
73	FUTURE EQUIPMENT	12		0.2					20	1		1	20						0.8	12	LIGHTING - RESTROOMS	74
75	SPARE								20	1		1	20								SPARE	76
77	SPARE								20	1		1	20								SPARE	78
79	SPACE									1		1	20								SPARE	80
81	SPACE									1											SPACE	82
83	SPACE									1											SPACE	84
														31.8	0.4	0.0	12.1	9.2	10.3		CONNECTED KVA 63.8	
																					CONNECTED AMP 160.8	

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.

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 MAIN 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 24,664 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", AT PANEL 'B' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 23,996 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED".
6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. PANELS AND 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.

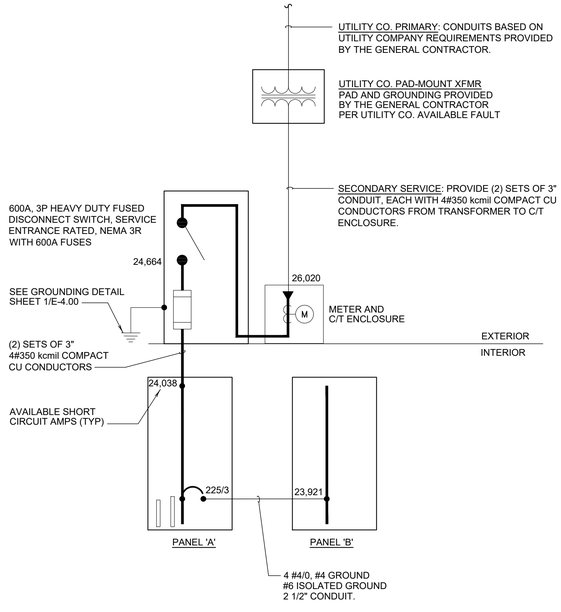
SERIES RATING NOTES 4
NOT TO SCALE E-601

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: XXXX
NAME OF CONTACT: XXXXXXXXXXXXXXXX
PHONE: (XXX)-XXX-XXXX
EMAIL: XXXXXXXXXXXX@XXXXX.com

ITEMS	CONTRACTOR FURNISHED BY	CONTRACTOR INSTALLED BY	UTILITY COMPANY FURNISHED BY	UTILITY COMPANY 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 - SELF CONTAINED METER			X	X
METER HOUSING- PROVIDES 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.



SINGLE LINE DIAGRAM 2
NOT TO SCALE E-601

PANDA EXPRESS, INC.
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Rosemead, California
91770
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Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

	STATE PERMIT SET	02/10/2021

DRAWN BY: N. NGUYEN

PANDA PROJECT #: D8059
ARCH PROJECT #: JCDT20-0255

SEAN PATRICK PICKELL REGISTERED No.PE11800686 STATE OF CALIFORNIA PROFESSIONAL ENGINEER
2-10-21

NORR ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS
TRUE WARM & WELCOME
1395 N. GREEN STREET
BROWNSBURG, IN 46112

E-601
PANELS, SINGLE LINE, LOAD CALC'S