CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

LEGAL JURISDICTION:	GASTON COUNTY, BUILDING DEPARTMENT
BUILDING CODE:	2018 NORTH CAROLINA BUILDING CODE
ACCESSIBILITY:	ICC A117-2009
MECHANICAL:	2018 NORTH CAROLINA MECHANICAL CODE
PLUMBING:	2018 NORTH CAROLINA PLUMBING CODE
ELECTRICAL:	1 2020 NATIONAL ELECTRIC CODE
FIRE:	2018 NORTH CAROLINA FIRE CODE
ENERGY:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
HEALTH:	2017 NORTH CAROLINA FOOD CODE
BUILDING AREA:	2,090 S.F. GROSS
SEATING:	20 INTERIOR
OCCUPANCY:	A2
TYPE CONSTRUCTION:	TYPE VB - UNPROTECTED

PROJECT SUMMARY

# PHONE LINES:	25 PAIR CABLE IN 2" CONDUIT
ELECTRIC SERVICE:	600 AMPS / 3 PHASE / 120-208 VOLT
GAS:	750,000 BTUH
WIND SPEED:	90 M.P.H. / EXPOSURE B
EARTHQUAKE ZONE:	D
ROOF LIVE LOAD:	25 P.S.F.

DESIGN CRITERIA

CURRENT ZONING B-2, COMMUNITY BUSINESS DISTRICT

REFER TO CIVIL DRAWINGS.

FOR TACO BELL USE/APPROVAL ONLY

BUILDING S.F.:	2,090 S.F.
SITE SIZE:	24,318 S.F.
PARKING COUNT:	18
INT. SEATING:	20
EXT. SEATING:	0
KIOSK COUNT:	4
D.M.B.:	LTO MONITOR
DT DMP:	YES
DT DPB:	NO

LEGAL DESCRIPTION

A. ALL WORK SHALL CONFORM TO THE 2018 EDITION OF THE NORTH CAROLINA BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND REGULATIONS OF THE CITY OF MT. HOLLY AND COUNTY OF GASTON.

B. IT IS INTENDED THAT A COMPLETE OCCUPIABLE BUILDING PROJECT IS PROVIDED.

C. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (A.I.A. A201 LATEST EDITION) ARE A PART OF THESE CONTRACT DOCUMENTS. A COPY IS ON FILE AT THE ARCHITECT'S OFFICE.

D. DRAWINGS ARE BASED ON A SURVEY, DATED JUNE 24, 2021 PREPARED BY GC MAPPING, PLLC AND IS INCLUDED IN THESE DOCUMENTS.

E. THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL INVESTIGATION DATED JULY 6, 2021 BY INTERTEK PSI. THE REPORT IS PART OF THESE CONTRACT DOCUMENTS, AND THE CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT ITS RECOMMENDATIONS, THOUGH SOME MAY NOT BE SPECIFICALLY DETAILED ON THE PLANS.

F. DO NOT SCALE THESE DRAWINGS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. ANY DISCREPANCIES IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO STARTING WORK.

G. ALL PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE TACO BELL CORPORATE BRAND DESIGNER OR CONSTRUCTION MANAGER, IN WRITING, PRIOR TO INSTALLATION.

H. RETAIN THE PROJECT GEOTECHNICAL ENGINEER TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING (INCLUDING UTILITY TRENCHES) AND FOUNDATION PHASE OF CONSTRUCTION AS RECOMMENDED IN THE GEOTECHNICAL REPORT. ALL TESTING AND INSPECTION REPORTS, INCLUDING FINAL SUMMATION LETTER, SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND OWNER. G.C. SHALL CERTIFY PAD ELEVATION PRIOR TO START OF FOUNDATION WORK.

I. SUBMIT, PAY FEES AND OBTAIN ALL PERMITS ASSOCIATED WITH THE PROJECT EXCEPT GENERAL BUILDING PERMIT. THIS INCLUDES, BUT IS NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, FIRE SPRINKLER, HOOD ANSUL, OR OTHER RELATED FIRE PERMITS, ENCROACHMENT PERMIT, ETC. YUM BRANDS WILL PAY FOR "CONNECTION FEES" ASSOCIATED WITH UTILITY PERMITS. PAY FOR TEMPORARY FACILITIES FEES AS REQUIRED TO COMPLETE THE WORK IN A TIMELY MANNER.

J. PROVIDE EACH SUBCONTRACTOR WITH A COMPLETE AGENCY-PERMITTED DRAWING SET AT TIME OF CONSTRUCTION.

K. ALL ABBREVIATIONS INCLUDED FOLLOW INDUSTRY STANDARDS. CONTACT ARCHITECT IF ANY ABBREVIATIONS ARE NOT CLEAR.

L. GC SHALL SUPPLY AND INSTALL ALL ASPECTS OF THE PROJECT DESCRIBED IN THIS DRAWING SET UNLESS OTHERWISE NOTED. SEE SCOPE OF WORK FOR EXCEPTIONS.

M. GRAPHIC AND WRITTEN INFORMATION ON DRAWINGS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.

N. ALL MATERIALS STAGED TO BE USED FOR CONSTRUCTION SHALL BE PROTECTED FROM EXCESSIVE MOISTURE. IF THEY ARE EXPOSED TO MOISTURE THEY SHOULD BE ADEQUATELY DRIED AND INSPECTED FOR COMPLIANCEWITH MINIMUM QUALITY STANDARDS BEFORE ENCAPSULATED INTO THE BUILDING.

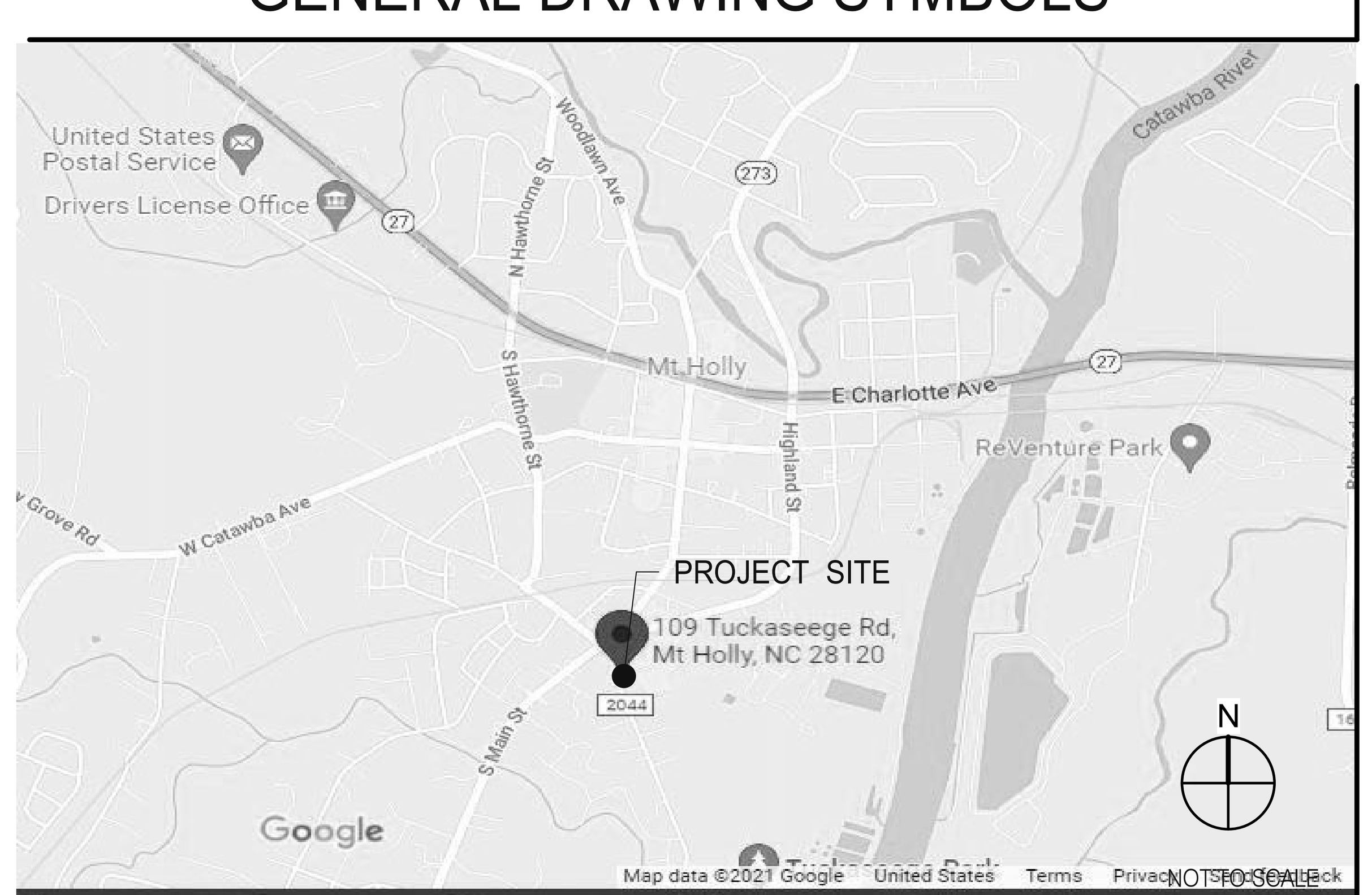
O. ALL PAINTS, ADHESIVES, COATINGS AND SEALANTS USED INSIDE THE BUILDING SHALL HAVE A LOW VOC CONTENT.

PROJECT GENERAL NOTES

Symbol	Meaning
OFFICE	ROOM NAME
A / D XX B / C	SHEET NUMBER; ELEVATION NUMBER
8'-4"	CEILING HEIGHT
X / XX	BLDG. SECTION LETTER; BLDG. SECTION SHEET
X / XX	DETAIL NUMBER; DIRECTION OF DETAIL; DETAIL SHEET
X (triangle)	REVISION NUMBER
0'-0" ELEV.	BLDG. HEIGHT REFERENCE POINT
X / XX	ELEV. LETTER; ELEV. SHEET
X	DOOR NUMBER
X	WINDOW NUMBER / DECOR ITEM NUMBER
X	KEY NOTE NUMBER
X-000	EQUIPMENT NUMBER
X	WALL NUMBER
X	INTERIOR ELEVATION DESIGNATION
X	SHEAR WALL TYPE (STRUCTURAL)
XXX 000	EQUIPMENT / FIXTURE NUMBER (M.E.P)
GREEN	INDICATES SUSTAINABLE DESIGN

REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL SHEETS FOR SPECIFIC SYMBOLS

GENERAL DRAWING SYMBOLS



VICINITY MAP

OWNER
YUM! BRANDS, INC.
1900 COLONEL SANDERS LANE
LOUISVILLE, KY 40213
CONTACT: STEVE PULCHEON
PHONE: 949.863.3864

ARCHITECT
GPD ENGINEERING AND ARCH. PRO. CORP.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: SARAH MCGOWAN
PHONE: 330.572.2100

CONSTRUCTION MANAGER
YUM! BRANDS, INC.
1900 COLONEL SANDERS LANE
LOUISVILLE, KY 40213
CONTACT: STEVE PULCHEON
PHONE: 949.863.3864

STRUCTURAL ENGINEER
GPD ENGINEERING AND ARCH. PRO. CORP.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: SARAH MCGOWAN
PHONE: 330.572.2100

CIVIL ENGINEER
GPD ENGINEERING AND ARCH. PRO. CORP.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: SARAH MCGOWAN
PHONE: 330.572.2100

M/E/P ENGINEER
GPD ENGINEERING AND ARCH. PRO. CORP.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: SARAH MCGOWAN
PHONE: 330.572.2100

GEOTECHNICAL ENGINEER
INTERTEK - PSI
5021-A W. WT HARRIS BLVD.
CHARLOTTE, NC 28269
CONTACT: CALEB SARUSE, P.E.
PHONE: 704.598.2234

LANDSCAPE ARCHITECT
GPD ENGINEERING AND ARCH. PRO. CORP.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: SARAH MCGOWAN
PHONE: 330.572.2100

PROJECT DIRECTORY

SEWER
CITY OF MOUNT HOLLY
400 E. CENTRAL AVENUE
MOUNT HOLLY, NC 28120
CONTACT: DAVID JOHNSON
PHONE: 704.951.0074 X1002

TELEPHONE
AT&T
CONTACT: CUSTOMER SERVICE
PHONE: 888-808-0082

WATER
CITY OF MOUNT HOLLY
400 E. CENTRAL AVE.
MOUNT HOLLY, NC 28120
CONTACT: DAVID JOHNSON
PHONE: 704.951.0074 X1002

GAS
DOMINION ENERGY
P.O. BOX 100256
COLUMBIA, SC 29202
PHONE: 877.776.2427

ELECTRIC
DUKE ENERGY
P.O. BOX 1090
CHARLOTTE, NC 28201-1090
PHONE: 800.653.5307

UTILITY CONTACTS

● SHEET ISSUED ON DATE INDICATED, WITH MODIFICATIONS

○ SHEET ISSUED ON DATE INDICATED, NO MODIFICATIONS

ISSUE

TITLE/GEN. CONDITIONS

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
T1.0	TITLE SHEET	●	●	○	●	○
T2.0	APPENDIX B		●	○	●	○
T2.1	APPENDIX B		●	○	●	○
G1.0	GREEN CHECKLIST SHEET	●	○	○	○	○
G2.0	TRASH ENCLOSURE DETAILS	●	○	○	○	○
G3.0	PEST PREVENTION GUIDE	●	○	○	○	○
G4.0	LIFE SAFETY PLAN	●	●	○	○	○
G4.1	SIGNAGE DETAILS	●	○	○	○	○

TITLE/SITE SHEET COUNT: 8

STRUCTURAL

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
S1.0	FOUNDATION PLAN	●	○	○	○	○
S2.0	WALL FRAMING PLAN	●	○	○	○	○
S3.0	ROOF FRAMING PLAN	●	○	○	○	○
S4.0	STRUCTURAL DETAILS	●	○	○	●	○
S4.1	STRUCTURAL DETAILS	●	○	○	○	○
S4.2	STRUCTURAL DETAILS	●	○	○	○	○
S4.3	STRUCTURAL DETAILS	●	○	○	●	○
S4.4	STRUCTURAL SECTIONS	●	○	○	●	○
S5.0	CANOPY/AWNING BLOCKING ELEVATIONS	●	○	○	○	○

STRUCTURAL SHEET COUNT: 9

CIVIL

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
SEE CIVIL DRAWINGS FOR SHEET INDEX.		●	○	○	○	○

ARCHITECTURAL

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
A1.0	FLOOR PLAN	●	○	○	●	○
A1.1	DOOR & WINDOW ELEVATIONS & SCHEDULES	●	○	○	○	○
A2.0	EQUIPMENT AND SEATING PLAN	●	○	○	○	○
A2.1	EQUIPMENT SCHEDULE	●	○	○	○	○
A3.0	ROOF PLAN	●	○	○	●	○
A4.0	EXTERIOR ELEVATIONS	●	○	○	○	○
A4.1	EXTERIOR ELEVATIONS	●	○	○	○	○
A5.0	BUILDING SECTIONS	●	○	○	○	○
A5.1	BUILDING SECTIONS	●	○	○	○	○
A5.2	WALL SECTIONS	●	○	○	○	○
A5.3	WALL SECTIONS	●	○	○	○	○
A5.4	WALL SECTIONS	●	○	○	●	○
A6.0	CONSTRUCTION DETAILS ROOF	●	○	○	●	○
A6.1	CONSTRUCTION DETAILS DOOR/WINDOW	●	○	○	○	○
A6.2	CONSTRUCTION DETAILS WALL	●	○	○	○	○
A6.3	FINISH DETAILS	●	○	○	○	○
A6.4	CONSTRUCTION DETAILS INTERIOR	●	○	○	○	○
A6.5	CEILING DETAILS	●	○	○	○	○
A6.6	HARDIE BOARD DETAILS	●	○	○	○	○
A7.0	FLOOR FINISH PLAN	●	○	○	○	○
A7.1	REFLECTED CEILING PLAN	●	○	○	○	○
A7.2	FINISH SCHEDULE	●	○	○	○	○
A8.0	INTERIOR ELEVATIONS DINING ROOM	●	○	○	○	○
A8.1	INTERIOR ELEV. ENLARGED RESTROOMS & OFFICE PLAN	●	○	○	○	○
A8.2	INTERIOR ELEVATIONS KITCHEN	●	○	○	○	○
A8.3	INTERIOR ELEVATIONS KITCHEN					

ARCHITECTURAL SHEET COUNT: 26

ACCESSIBILITY

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
ADA1.0	ACCESSIBILITY REQUIREMENTS	●	○	○	○	○
ADA1.1	ACCESSIBILITY REQUIREMENTS	●	○	○	○	○

ACCESSIBILITY SHEET COUNT: 2

MECHANICAL

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
M1.0	MECHANICAL SCHEDULES AND NOTES	●	○	○	○	○
M2.0	DUCT AND DIFFUSER PLAN	●	○	○	●	○
M2.1	MECHANICAL ROOF PLAN	●	○	○	○	○
M3.0	HOOD DETAILS AND SECTIONS	●	○	○	○	○
M4.0	MECHANICAL DETAILS	●	○	○	○	○
M5.0	CONTROLS DETAILS	●	○	○	○	○

MECHANICAL SHEET COUNT: 6

PLUMBING

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
P1.0	PLUMBING SCHEDULES AND NOTES	●	○	○	●	○
P2.0	WASTE AND VENT PLAN	●	○	○	●	○
P3.0	WATER AND GAS PLAN	●	○	○	○	○
P4.0	PLUMBING ROUGH-IN PLAN	●	○	○	○	○
P5.0	RISER DIAGRAMS	●	○	○	○	○
P6.0	PLUMBING DETAILS	●	○	○	○	○

PLUMBING SHEET COUNT: 6

ELECTRICAL

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
E1.0	SITE ELECTRICAL PLAN	●	○	○	○	○
E2.0	ELECTRICAL ONE LINE DIAGRAMS AND LEGEND	●	○	○	○	○
E2.1	ELECTRICAL SCHEDULES	●	○	○	○	○
E2.2	ELECTRICAL SCHEDULES	●	○	○	○	○
E3.0	ELECTRICAL POWER PLAN	●	○	○	●	○
E3.1	ENLARGED POWER PLAN AND DETAILS	●	○	○	○	○
E3.2	ELECTRICAL POWER ROOF PLAN	●	○	○	○	○
E4.0	LIGHTING PLAN AND DETAILS	●	○	○	●	○
E5.0	COMMUNICATIONS PLAN	●	○	○	●	○
E6.0	ELECTRICAL DETAILS - TBCCB	●	○	○	○	○
E6.1	ELECTRICAL DETAILS - TBCCB	●	○	○	○	○
E7.0	ELECTRICAL DETAILS	●	○	○	○	○
E7.1	ELECTRICAL DETAILS	●	○	○	○	○

ELECTRICAL SHEET COUNT: 13

SCOPE OF WORK

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
SW1.0	SCOPE OF WORK	●	○	○	○	○
SW2.0	INSTALLATION START-UP PRE-COMM CHECK LIST	●	○	○	○	○
SW2.1	BALANCING AND COMISSIONING SEQUENCE	●	○	○	○	○

SCOPE OF WORK SHEET COUNT: 3

SPECIFICATIONS

Sheet	Title	01.14.2022	03.01.2022	03.17.2022	03.29.2022	04.01.2022
IN BOOK FORMAT		●	○	○	○	○

SHEET INDEX

GPD Engineering and Architecture Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
1	03.29.22	Building Comments
	04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
TITLE SHEET

T1.0

PLOT DATE: 3/31/2022 1:03:40 PM

C:\Users\cspisak\OneDrive - GPD Group\Documents\TB 314703 Mt Holly NC - ARCH_SM20_CSpisakNKMSA.rvt

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Taco Bell
Address: 109 Tuskaseege Rd., Mount Holly, NC Zip Code 28120
Owner/Authorized Agent: Steve Pulcheon Phone # (949) 863 - 3864 E-Mail steve.pulcheon@yum.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☒ County Gaston ☐ State

CONTACT: GPD Engineering and Arch. Pro Corp. Sarah Mcgowan, (330)572.2100 smcgowan@gpdgroup.com

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	GPD	Mark Salopek	10433	(330) 572.2100	smcgowan@gpdgroup.com
Civil	GPD	Leonardo Sferro	043551	(330) 572.2100	smcgowan@gpdgroup.com
Electrical	GPD	Steven Schaub	040102	(330) 572.2100	smcgowan@gpdgroup.com
Fire Alarm	N/A			( )	
Plumbing	GPD	Brandon Marzley	41099	(330) 572.2100	smcgowan@gpdgroup.com
Mechanical	GPD	Brandon Marzley	41099	(330) 572.2100	smcgowan@gpdgroup.com
Sprinkler-Standpipe	N/A			( )	
Structural	GPD	John Kabak	38136	(330) 572.2100	smcgowan@gpdgroup.com
Retaining Walls >5' High	N/A			( )	
Other	N/A			( )	

("Others" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: ☒ New Construction ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core
☐ Phased Construction – Shell/Core
☐ Renovation

2018 NC EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use
CONSTRUCTED:(date) ________ **ORIGINAL OCCUPANCY(S)** (Ch. 3):__________
RENOVATED: (date) ________ **CURRENT OCCUPANCY(S)** (Ch. 3):__________
RISK CATEGORY (table 1604.5) **Current:** ☐ I ☒ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes (Primary) **Flood Hazard Area:** ☒ No ☐ Yes
Special Inspections Required: ☐ No ☒ Yes

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ.FT)	SUB-TOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor		2090		2090
Basement				
TOTAL		2090		2090

ALLOWABLE AREA

Primary Occupancy Classification: SELECT ONE
Assembly ☐ A-1 ☒ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐
Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 – List Code Sections) N/A
Special Provisions: (Chapter 5 – List Code Sections): N/A
Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception: __________
☐ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.4) -
See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$

$\_\_\_\_\_ + \_\_\_\_\_ + \ldots = \_\_\_\_\_ \leq 1.00$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	A-2	2090	6000	0	6000

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _______ (F)
b. Total Building Perimeter = ________ (P)
c. Ratio (F/P) = __________ (F/P)
d. W = Minimum width of public way = _________ (W)
e. Percent of frontage increase I_f = 100 [F/P - 0.25] x W/30 = _______ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40'	23'-0"	
Building Height in Stories (Table 504.4)	1	1	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1
[3] The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_______* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0					
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Column Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Column Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PERPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
16'	UP, NS	25%	4%

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☐ No ☐ Yes ☒ Partial RTU
Carbon Monoxide Detection: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G4.0

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit access travel distances (1017)
☒ Common path of travel distances (1006.2.1 & 2006.3.2(1))
☒ Dead end lengths (1020.4)
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
☒ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A							

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES: REQUIRED	TOTAL # OF PARKING SPACES: PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
24,318	17	18	2			2
TOTAL	17	18	2			2

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS / TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G										
	NEW	1	1	0	0	1	1	0	0	0	0
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)
____
____
____

GPD Engineering and Architecture Professional Corporation - 52715
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
1	03.29.22	Building Comments
	04.01.22	Issued for Bid

CONTRACT DATE: 11.18.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314703
STORE NUMBER: 454826
PA/PM: JW
DRAWN BY.: RS
JOB NO.: 2020088.07

TACO BELL
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
APPENDIX B

T2.0

PLOT DATE: 3/31/2022 1:03:41 PM

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ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the **North Carolina Energy Conservation Code** shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)

Exempt Building: ☐ No ☐ Yes (Provide Code or Statutory reference): ______

Climate Zone: ☒ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☒ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here) ______

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
- Description of assembly: INSULATION ABOVE DECK
- U-Value of total assembly: 0.028
- R-Value of insulation: R-35
- Skylights in each assembly: 0
  - U-Value of skylight: ______
- Total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)
- Description of assembly: WOOD FRAMED
- U-Value of total assembly: 0.064
- R-Value of insulation: R-20
- Openings (windows or doors with glazing)
  - U-Value of assembly: .290
  - Solar heat gain coefficient: .23
  - Projection factor: 0
  - Door R-Values: 0

Walls below grade (each assembly)
- Description of assembly: N/A
- U-Value of total assembly: ______
- R-Value of insulation: ______

Floors over unconditioned space (each assembly)
- Description of assembly: N/A
- U-Value of total assembly: ______
- R-Value of insulation: ______

Floors slab on grade
- Description of assembly: 4" CONC.
- U-Value of total assembly: N/A
- R-Value of insulation: N/A
- Horizontal/Vertical requirement: N/R
- Slab Heated: N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) 1.0
Seismic (I_E) 1.0

Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 100 psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 110 mph (ASCE-7)
Exposure Category B

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☒ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_S 20.0 %g S_1 8.2 %g
Site Classification (ASCE 7) ☐ A ☒ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☒ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system ☒ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☒ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☒ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 2000 psf
Presumptive Bearing capacity ______ psf
Pile size, type, and capacity ______

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
- winter dry bulb: 18°F
- summer dry bulb: 94°F

Interior design conditions
- winter dry bulb: 68°F
- summer dry bulb: 73°F
- relative humidity: 55%

Building heating load: 153,300 BTUs

Building cooling load: 229,700 BTUs

Mechanical Spacing Conditioning System
Unitary
- description of unit: Rooftop Units
- heating efficiency: RTU-1=80%, RTU-2=80%
- cooling efficiency: RTU-1=12.5 EER, RTU-2=12.3 EER
- size category of unit: RTU-1=7.5 tons cooling/180,000BTUs heating
  RTU2=12.5 tons cooling/180,000BTUs heating

Boiler
- Size category. If oversized, state reason.: ______

Chiller
- Size category. If oversized, state reason.: ______

List equipment efficiencies: ______

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code: ☒ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)
- lamp type required in fixture
- number of lamps in fixture
- ballast type used in the fixture
- number of ballasts in fixture
- total wattage per fixture
- total interior wattage specified vs. allowed (whole building or space by space)
- total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- ☐ C406.2 More Efficient Mechanical Equipment
- ☒ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

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TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
APPENDIX B

T2.1

PLOT DATE: 3/31/2022 1:03:42 PM

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CHECK LIST NUMBER EXPLANATION:

THE CHECKLIST NUMBERS BELOW ALIGN WITH THE CREDIT NUMBERS IN THE YUM BLUELINE SYSTEM WEBSITE. FOR FURTHER DETAIL GO TO THE FOLLOWING WEB ADDRESS. NOTE: FOLLOW THE "REQUIRED" AND "OPTIONAL" DESIGNATION ON THIS SHEET RATHER THAN THE ONES ON THE YUMBLUELINE WEBSITE. THE SYSTEM HAS BEEN SETUP SO THAT IF YOU DO THE "REQUIRED" ITEMS ON THIS LIST YOUR RESTAURANT WILL MEET THE YUMBLUELINE REQUIREMENTS.

1. GO TO THE REFERENCE VERSION OF THE YUM BLUELINE WEBSITEAT: "WWW.YUMBLUELINE.COM"
2. IN THE "USER" SECTION CHOOSE "GENERAL" FROM THE PULL DOWN MENU
3. IN THE "PASSWORD" SECTION TYPE IN "J212J*KLA!"

FEASIBILITY | DESIGN | CONSTRUCTION | COMMISIONING

FORMALDEHYDE LIMITS
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
• HARDWOOD PLYWOOD VENEER CORE	0.05
• HARDWOOD COMPOSITE CORE	0.05
• PARTICLE BOARD	0.09
• MEDIUM DENSITY FIBER BOARD	0.11
• THIN MEDIUM DENSITY FIBERBOARD	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXIC CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/15"

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS (CONT.)
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

SPECIALTY COATINGS	CURRENT VOC LIMIT
• ROOF COATINGS	50
• RUST PREVENTATIVE COATINGS	250
• SHELLACS	
CLEAR	730
OPAQUE	550
• SPECIALTY PRIMERS, SEALERS & UNDER-COATINGS	100
• STAINS	250
• STONE CONSOLIDANTS	450
• TRAFFIC MARKING COATINGS	100
• TUB & TILE REFINISH COATINGS	420
• WATERPROOFING MEBRANES	250
• WOOD COATINGS	275
• WOOD PRESERVATIVES	350
• ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AREI RESOURCE BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

COATING CATEGORY	CURRENT VOC LIMIT
• FLAT COATINGS	50
• NON-FLAT COATINGS	100
• NON-FLAT HIGH GLOSS COATINGS	150

SPECIALTY COATINGS	CURRENT VOC LIMIT
• ALUMINUM ROOF COATINGS	400
• BASEMENT SPECIALTY COATINGS	400
• BITUMINOUS ROOF COATINGS	50
• BITUMINOUS ROOF COATINGS PRIMER	350
• BOND BREAKER	350
• CONCRETE CURING COMPOUNDS	350
• CONCRETE / MASONRY SEALERS	100
• DRIVEWAY SEALERS	50
• DRY FOG COATINGS	150
• FIRE RESISTIVE COATINGS	350
• FLOOR COATINGS	100
• FORM-RELEASE COMPOUNDS	250
• HIGH TEMPERATURE COATINGS	420
• INDUSTRIAL MAINTENANCE COATINGS	250
• LOW SOLIDS COATINGS	120
• MAGNESITE CONCRETE COATINGS	450
• MASTIC TEXTURE COATINGS	100
• PRETREATMENT WASH PRIMER	350
• PRIMERS, SEALERS AND UNDERCOATS	100
• REACTIVE PENETRATING SEALERS	350

43.1 CONTROLLED BUILDING MATERIAL (REQUIRED)
A. IF FLUORESCENT LAMPS ARE USED THEY SHALL NOT EXCEED 80 PICOGRAMS PER LUMEN HOUR.
B. MAINTAIN THE TACO BELL LAMPS POLICY OF ONLY USING LED LAMPS IN ALL BUILDING, SITE AND SIGN LIGHTING.

45.1 THERMAL COMFORT (REQUIRED)
INSURE THAT THE HVAC SYSTEM PROVIDES THE FOLLOWING COMFORT CONDITIONS, ON AVERAGE:

STORE OCCUPATION	MODE	TEMP SETPOINTS	MAX RELATIVE HUMIDITY
OCCUPIED	DINING COOLING	73-78 F	60%
	KITCHEN COOLING	68-73 F	
	DINING HEATING	68-73 F	60%
	KITCHEN HEATING	66-71 F	
UNOCCUPIED	COOLING (MINIMUM)	80 F OR OFF	
	HEATING (MAXIMUM)	60 F	

46.1 THERMAL VERIFICATION (REQUIRED)
A. AT THE 11 MONTH WARRANTEE THE CM SHALL ADMINISTER THE "THERMAL COMFORT VERIFICATION SURVEY" WITH A RESPONSE RATE OF 75% MINIMUM.
B. IF 20% OR MORE OF THE RESPONDERS ARE DISSATISFIED THEN CORRECTIVE ACTIONS SHALL TAKE CORRECTIVE ACTION UNTIL LESS THAN 20% ARE DISSATISFIED.
C. IF CORRECTIVE ACTION IS REQUIRED GO BACK AND INSURE THAT THE STORE MEETS #28 THERMAL COMFORT STANDARDS.

48.1 LEED TEAM MEMBER (REQUIRED)
EACH CONSULTANT SHALL HAVE A LEED AP MEMBER ON EACH PROJECTS SITE SPECIFIC TEAM.

49.1 COMMISSIONING (REQUIRED)
COMMISSIONING REQUIRES UNDERSTANDING THE OWNERS DESIGN INTENT PRIOR TO STARTING SITE SPECIFIC DESIGN SO THEY CAN INSURE THAT THEIR DESIGN MEETS WITH THE OWNER'S REQUIREMENTS. COMMISSIONING ALSO IS ALSO INTENDED TO INSURE THAT THE CONTRACTOR EXECUTES THE DESIGN PER THE OWNER'S REQUIREMENTS.

A. THE CONSULTANT SHOULD MODIFY THE OWNER'S PROTOTYPE REQUIREMENTS WITH THE SITE SPECIFIC I INFORMATION AND INSURE THAT THE SITE SPECIFIC DESIGN MEETS OR EXCEEDS THE OWNER'S REQUIREMENTS PRIOR TO STARTING DESIGN.
B. THE CONSULTANT, GENERAL CONTRACTOR AND CM SHOULD USE SHEET G1 AS THE CHECKLIST TO INSURE THE SITE SPECIFIC PROJECT RESULTS MEETS OR EXCEEDS THE OWNER'S REQUIREMENTS.

FEASIBILITY | DESIGN | CONSTRUCTION | COMMISIONING

P = INDICATES THAT SCOPE IS ALREADY IN THE PROTOTYPE DRAWINGS
* = INDICATES OPTIONAL ITEMS

P 37.1 RECYLING (REQUIRED)
A. PROVIDE DEDICATED RECYCLING SPACE IN THE DINING ROOM, KITCHEN AND SITE. RECYCLING SHOULD ACCOMMODATE PLASTIC, PAPER AND OIL.
B. SEE THE "TRASH ENCLOSURE STANDARDS" POSTED ON THE PLANS.YUM.COM. UNLESS APPROVED THE "LARGE" VERSION SHOULD BE USED.

37.2 COOKING OIL RECYCLING (REQUIRED)
COLLECT COOKING OIL AND PROVIDE TO A THIRD PARTY VENDOR FOR RECYCLING.

* 37.3 CARDBOARD RECYCLING (OPTIONAL)
COLLECT USED CORRUGATED CARDBOARD AND PROVIDE TO A THIRD PARTY VENDOR FOR RECYCLING.

38. AIR VENTILATION (REQUIRED)
1. PROVIDE AIR VENTILATION AND EXHAUST RATES PER YUM BLUELINE.
2. PROVIDE FRESH AIR PER YUM BLUELINE.

39.1 NO SMOKING (REQUIRED)
A. MAINTAIN A POLICY OF NOT SMOKING WITHIN THE RESTAURANT
B. PROHIBIT SMOKING WITHIN 25 FEET OF THE RESTAURANT

41.1 PROTECTION OF MATERIALS (REQUIRED)
GC TO PROVIDE A IAQ MANAGEMENT PLAN WITH BID. START WITH THE PROTOTYPE TEMPLATE AND MODIFY AS REQUIRED FOR SITE SPECIFIC CONDITIONS.
A. PROTECT HVAC SYSTEM
B. IMPLEMENT POLLUTION SOURCE CONTROL MEASURES
C. PROTECT STORED MATERIALS
D. PROTECT INSTALLED MATERIALS
E. MAINTAIN CONSTRUCTION SITE HOUSEKEEPING

42. LOW EMITTING MATERIALS (REQUIRED)
FINISH MATERIALS SHALL COMPLY WITH THIS SECTION:
ADHESIVES, SEALANTS AND CAULKS. ADHESIVES, SEALANT AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS MORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY MANAGEMENT DISTRICT RULES APPLY:
1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS.
2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH SCAQMD.

PAINTS AND COATINGS. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN SCAQMD.

AEROSOL PAINTS AND COATINGS. AEROSOL PAINTS AND COATINGS SHALL MEET SCAQMD REQUIREMENTS.

VERIFICATION. THE GENERAL CONTRACTOR SHALL PROVIDED DOCUMENTATION TO THE CM. DOCUMENTATION SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
1. MANUFACTURER'S PRODUCT SPECIFICATION.
2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

ADHESIVE VOC LIMITS

ARCHITECTURAL ADHEASIVE APPLICATIONS	CURRENT VOC LIMIT
• CERAMIC TILE	65
• DRYWALL, PANEL & COVE BASE	50
• MULTI-PURPOSE	70
• SINGLE PLY ROOFING	250

SPECIALTY APPLICATIONS	CURRENT VOC LIMIT
• PVC WELDING	510
• CPVC WELDING	490
• ABS WELDING	325
• PLASTIC CEMENT WELDING	250
• ADHESIVE PRIMER FOR WELDING	550
• CONTACT ADHESIVE	80
• SPECIAL PURPOSE CONTACT ADHESIVE	250
• STRUCTURAL WOOD MEMBER ADHESIVE	140
• TOP & TRIM ADHESIVE	250

SUBSTRATE SPECIFIC APPLICATIONS	CURRENT VOC LIMIT
• METAL TO METAL	30
• PLASTIC FOAMS	50
• POROUS MATERIALS (EXCEPT WOOD)	50
• WOOD	30
• FIBERGLASS	80

SEALANT VOC LIMITS
(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

SEALANT	CURRENT LIMIT
• ARCHITECTURAL	250
• MARINE DECK	760
• NON-MEMBRANE ROOF	300
• ROADWAY	250
• SINGLE PLY ROOF MEMBRANE	450
• OTHER	420

SEALANT PRIMER	CURRENT LIMIT
• ARCHITECTURAL	
NON-POROUS	250
PORUS	775
• MODIFIED BITUMINOUS	500
• MARINE DECK	760
• OTHER	75

FEASIBILITY | DESIGN | CONSTRUCTION | COMMISIONING

P = INDICATES THAT SCOPE IS ALREADY IN THE PROTOTYPE DRAWINGS
* = INDICATES OPTIONAL ITEMS

* 1.3 CONTAMINATED SITES (OPTIONAL)
IF YOU ARE DEVELOPING A SITE SUCH AS A GAS STATION THAT REQUIRES REMEDIAL WORK CHECK THIS BOX.

1.4 LOCATION COMMITMENT (REQUIRED)
COMMIT TO STAY IN THE SAME LOCATION FOR 10 YEARS OR MORE.

1.5 PAY UTILITIES DIRECTLY (REQUIRED)
IF SITE IS LEASED INSURE THAT TACO BELL WILL PAY THE UTILITIES DIRECTLY RATHER THAN ALLOWING THE LANDLORD TO PAY THEM. THIS WILL ALLOW TACO BELL TO TRACK UTILITY EXPENSES EASILY.

* 2.2 PROXIMITY TO BUS STOP (OPTIONAL)
SITE IS WITHIN 1/4 A MILE OF A BUS STOP.

P 3.0 BICYCLE FACILITIES (REQUIRED)
PROVIDE DEDICATED BICYCLE LOCKABLE PARKING FOR A MINIMUM OF TWO BICYCLES. PROVIDE CHANGING AREA AND LOCKABLE STORAGE FOR A MINIMUM OF TWO PEOPLE. SINGLE OCCUPANCY TOILET ROOMS WILL SUFFICE AS A CHANGING AREA.

* 5.1 PARKING (OPTIONAL)
DO NOT EXCEED PARKING SPACES REQUIRED BY LOCAL ZONING. SEE CREDIT 5. PROVIDE 5% PREFERRED PARKING FOR CARPOOL.

P 7.2 WHITE ROOF (REQUIRED)
PROVIDE WHITE PVC SINGLE MEMBRANE ROOF MATERIAL.

9.0 CONSTRUCTION POLLUTION CONTROL (REQUIRED)
A. CONSTRUCTION POLLUTION CONTROL PLAN.
B. SILT FENCING
C. SITE VEHICULAR ACCESS
D. WHEEL WASHING
E. COVERED LOADS
F. EXCAVATED SOIL STORAGE
G. STORM WATER DRAIN, TRENCH AND PIT DRAIN PROTECTION
H. TEMPORARY DIVERSION DITCHES AND BERMS
I. DUST CONTROL
J. EXPOSED SLOPE EROSION CONTROL
K. WEEKLY CONTRACTOR INSPECTION

P 10.2 BUILDING WATER (REQUIRED)
PROVIDE PLUMBING FIXTURES AS SPECIFIED IN THE PROTOTYPE DRAWINGS, SPECIFICATIONS AND EQUIPMENT MODEL.

P 11.2 PROCESS WATER (REQUIRED)
ALL WATER USING EQUIPMENT SPECIFIED IN THE PROTOTYPE EQUIPMENT SCHEDULE SHALL BE USED FOR ALL GROUND-UP RESTAURANTS.

12.1 LANDSCAPE DESIGN (REQUIRED)
ALL LANDSCAPE DESIGNS FOR NEW GROUND-UP RESTAURANTS SHALL FOLLOW THE LANDSCAPE STANDARDS POSTED ON THE PLANS.YUM.COM WEBSITE.

13.1 IRRIGATION WATER (REQUIRED) SEE LANDSCAPE SPECIFICATIONS
A. PROGRAMMABLE IRRIGATION CONTROLLER.
B. SEPARATE IRRIGATION ZONES
C. PROGRAM MAXIMUM IRRIGATION TIMING
D. HIGH-EFFICIANCY IRRIGATION SPRINKLER HEADS
E. RAIN SENSOR

P 15.3 INTERIOR LIGHTING (REQUIRED)
THE CURRENT LIGHTING SPECIFICATIONS SHALL BE USED FOR ALL GROUND-UP PROTOTYPE RESTAURANTS.

P 16.2 EXTERIOR LIGHTING (REQUIRED)
THE CURRENT LIGHTING SPECIFICATIONS SHALL BE USED FOR ALL GROUND-UP PROTOTYPE RESTAURANTS.

P 17.2 SIGN ILLUMINATION (REQUIRED)
THE CURRENT SIGNAGE SPECIFICATIONS SHALL BE USED FOR ALL GROUND-UP PROTOTYPE RESTAURANTS.

P 18.1 EXHAUST HOODS (REQUIRED)
THE CURRENT 6'-3" BACK SHELF HOOD DESIGN AND EQUIPMENT PLACEMENT AS SHOWN IN THE GROUND-UP PROTOTYPE RESTAURANT SHALL BE USED.

P 19.1 LICENSED HVAC ENGINEER (REQUIRED)
USE A LICENSED HVAC ENGINEER FOR SYSTEM SITE ADAPTATION.

P 19.2 OPTIMIZE HVAC DESIGN (REQUIRED)
OPTIMIZE HVAC DESIGN SYSTEM PER YUM BLUELINE STANDARDS

P 20.0 HVAC EFFICIENCY (REQUIRED)
USE THE STANDARD HIGH EFFICENCY (MINIMUM EER 12.0) RTU AS SPECIFIED AND INSTALL PER THE CURRENT PROTOTYPE GROUND UP RESTAURANT.

P 21.0 ECONOMIZER PERFORMANCE (REQUIRED)
USE A FACTORY PROVIDED ECONOMIZER WITH DIFERENTIAL CONTROLS INTEGRAL TO AND COMPATIBLE WITH THE RTU'S SPECIFIED IN THE PROTOTYPE PLAN.

P 22.1. HOT WATER EFFICIENCY (REQUIRED)
USE THE WATER HEATER SPECIFIED IN THE TACO BELL PROTOTYPE.

P 23.1 REFRIGERANTS (REQUIRED)
DO NOT USED BANNED REFRIGERANTS. IF YOU USE ANY MODERN RTU YOU WILL NOT USE BANNED REFRIGERANTS

P 24.1 REFRIGERATION (REQUIRED)
A. USE THE CURRENT SPECIFIED WALK-IN COOLER/FREEZER. SEE CREDIT 24
B. USE THE CURRENT SPECIFIED REACH-IN FREEZER. SEE CREDIT 24
C. USE THE CURRENT SPECIFIED ICE MAKERS. SEE CREDIT 24

P 25.1 COOKING & WASHING EQUIPMENT (REQUIRED)
A. USE THE CURRENT SPECIFIED FRYER IN THE PROTOTYPE.
B. USE THE CURRENT SPECIFIED 3-COMP SINKIN THE PROTOTYPE.

P 28.1 BASIC LIGHTING & THERMAL CONTROLS (REQUIRED)
A. PROVIDE PROGRAMABLE THERMOSTATSSPECIFIED IN THE PROTOTYPE
B. PROVIDE TEMPERATURE SENSOR LOCATIONS AND SPECIFICATIONS ON PLAN
C. INSURE PROPER OPERATION OF VENTILATION EQUIMENT OPERATIONS
D. PROVIDE LIGHTING CONTROLS FOR INTERIOR ZONES
E. PROVIDE LIGHTING CONTROLS FOR EXTERIOR ZONES.

* 28.3 OCCUPANCY SENSORS (OPTIONAL)
PROVIDE ULTRASONIC/INFARED) OCCUPANCY SENSORS FOR 25% OR MOVE OF INTERIOR LIGHTING.

P 33.1 RECYCLED CONTENT (REQUIRED)
USE MATERIALS THAT HAVE A MINIMUM OF 10% RECYCLED MATERIALS. (NOTE: GETTING THE CALCULATIONS IN PROCESS)

36.1 CONSTRUCTION WASTE MANAGEMENT (REQUIRED)
A. THE CONTRACTOR SHALL RECYCLE A MINIMUM OF 50% OF ALL CONSTRUCTION WASTE AND PROVIDE RECORDS PER YUM BLUELINE. 75% IS PREFERRED.
B. THE GENERAL CONTRACTOR SHALL PROVIDE A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE CONSTRUCTION MANAGER WITH THEIR BID SUBMITTAL. THEY CAN USE THE STARTER FORM POSTED ON THE PLANS.YUM.COM WEBSITE IN THE GREEN PLAYBOOK SECTION.

GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
	04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

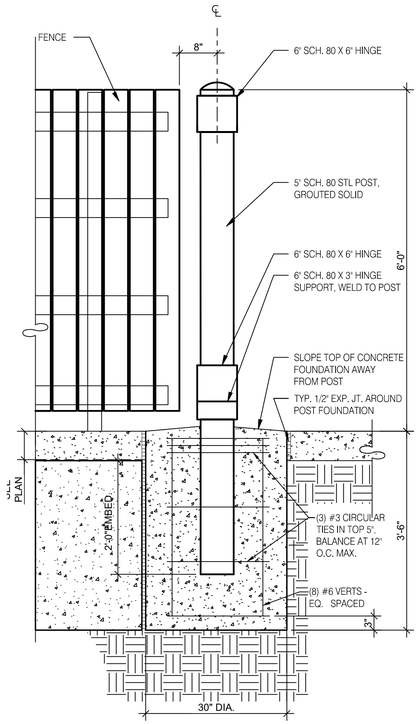
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
GREEN CHECKLIST SHEET

G1.0

PLOT DATE: 3/31/2022 1:03:34 PM

C:\Users\cspisak\OneDrive - GPD Group\Documents\TB 314703 Mt Holly NC - ARCH_SM20_CSpisakNKMSA.rvt



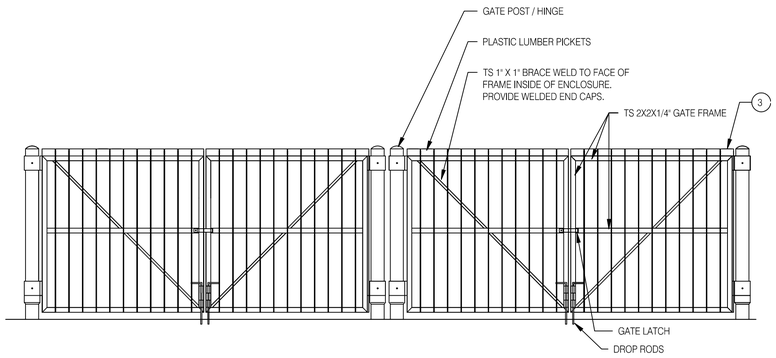
GATE POST FOOTING 3/4" = 1'-0" H

GATE HARDWARE: ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVANIZED.

GATE STOP: MUSHROOM TYPE OR FLUSH PLATE WITH ANCHORS SET IN CONCRETE TO ENGAGE THE CENTER DROP ROD OR PLUNGER BAR.

GATE NOTES: (4) EQUAL WIDE x 6'-0" HIGH MTL. GATES, TYPE 'B' 1 1/2" DECKING, 22GA. W/ T.S. 1 X1 1875 BAR CROSS BRACING WELD AND GRIND SMOOTH ALL CONNECTIONS, TYP. PRIME AND PAINT ALL STEEL COMPONENTS.

ENCLOSURE NOTES N.T.S. G



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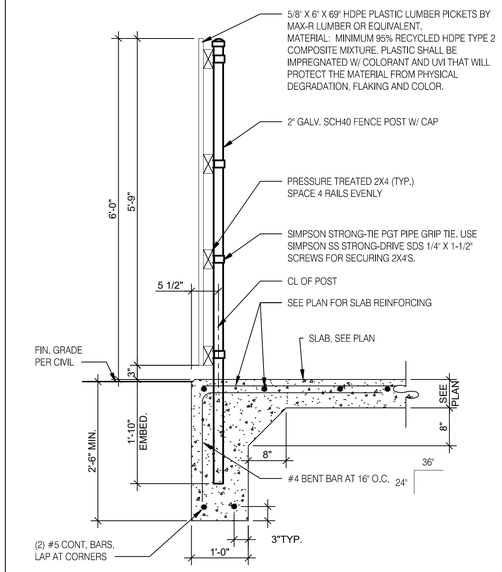
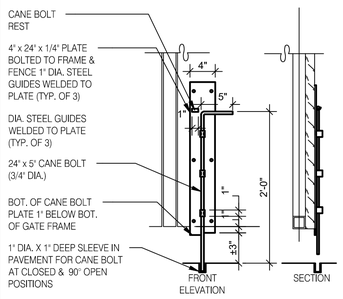


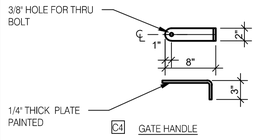
FENCE SECTION 3/4" = 1'-0" F

SYMBOL	AREA	MANUFACTURER	COLOR
1	GATE FRAME COLOR	SHERWIN WILLIAMS	SW 7055 ENDURING BRONZE
2	PIPE BOLLARDS	SHERWIN WILLIAMS	CAUTION YELLOW
3	HDPE LUMBER	MAX. R	LIGHT BROWN TEXTURE

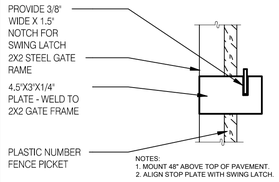
SCHEDULE N.T.S. E



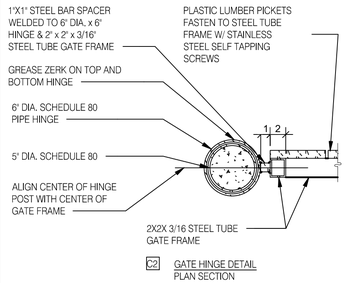
C5 CANE BOLT (1 PER GATE)



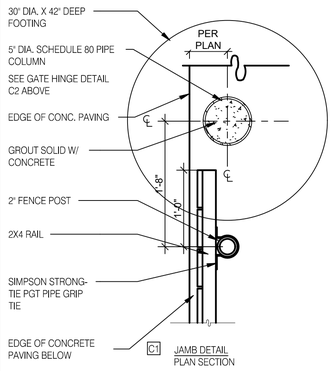
C4 GATE HANDLE



C3 STOP PLATE SECTION

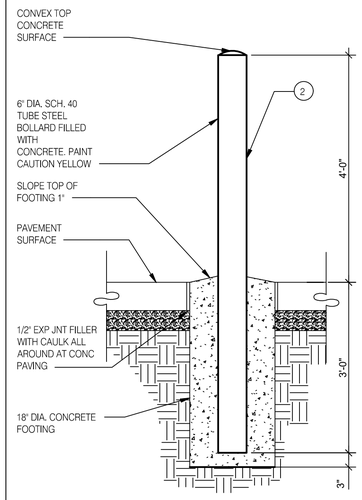


C2 GATE HINGE DETAIL PLAN SECTION



C1 JAMB DETAIL PLAN SECTION

GATE DETAILS N.T.S. C



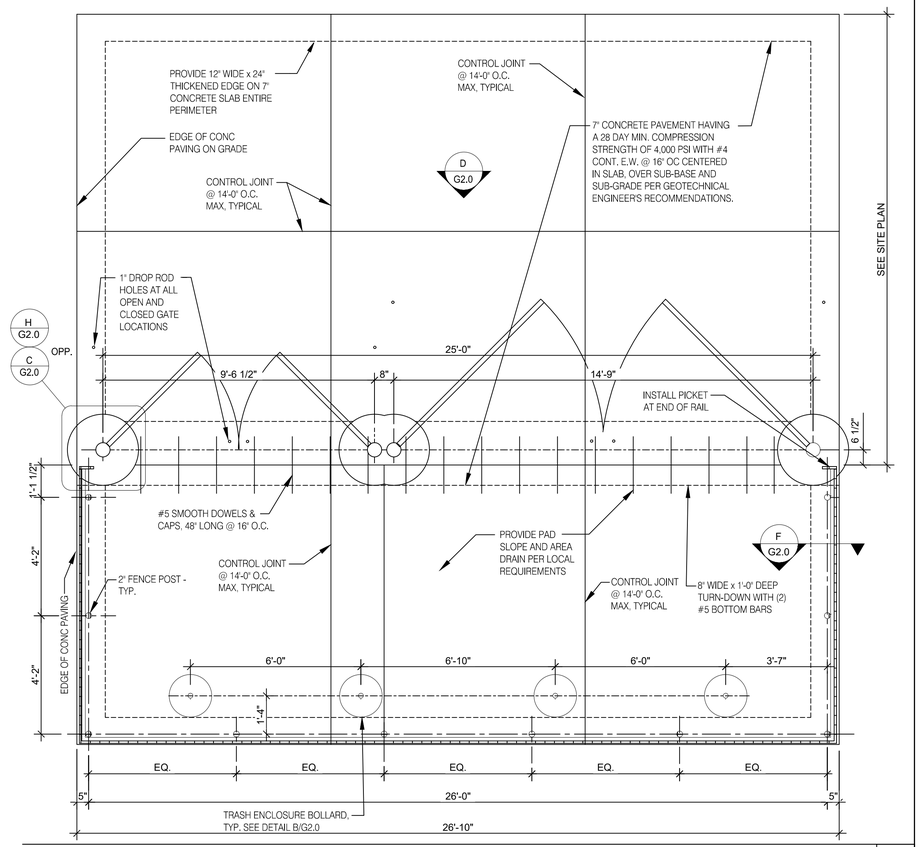
1 GUARDPOST BOLLARD DETAIL

TRASH ENCLOSURE BOLLARD DETAIL 3/4" = 1'-0" B

CONCRETE NOTES:
1. INSTALL 1/2" EXP. JT. MATERIAL AND SEALANT BETWEEN CONCRETE SLABS
2. INSTALL CONTROL JOINTS AT MAX. 10' O.C. IN SLABS.

SEE SHEET S1.0 FOR CONCRETE AND FOUNDATION REQUIREMENTS

SEE CIVIL DRAWINGS FOR ORIENTATION ON SITE



TRASH LAYOUT 3/8" = 1'-0" A

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TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

TACO BELL

ENDEAVOR 2.0

TRASH ENCLOSURE DETAILS

G2.0

PL

INTEGRATED PEST PREVENTION (IPP) CAN BE DEFINED AS, "THE ART AND SCIENCE OF PREVENTING THE INTRODUCTION OF UNWANTED ORGANISMS INTO COMPLEX MICROENVIRONMENTS AND THE ASSOCIATED MITIGATION EFFORTS REQUIRED WHEN PREVENTION FAILS". IPP ENCOMPASSES THE CONCEPTS, STRATEGIES AND TACTICS NEEDED TO EFFECTIVELY PROTECT HUMAN HEALTH AND PROPERTY FROM THE PRESENCE OF UNWANTED ORGANISMS.

EVERY PEST, WHETHER MICROBIOLOGICAL, INVERTEBRATE OR MAMMALIAN NEED A FOOD SOURCE, WATER, SAFE HARBORAGE (SUITABLE ENVIRONMENT – TEMPERATURE, HUMIDITY, HIDING PLACES). THEY ALSO NEED A WAY INTO THE RESTAURANT. IN MOST CASES, CONTROLLING EVEN 1 OF THE REQUIREMENTS CAN PREVENT AN INTRODUCTION FROM BECOMING AN INFESTATION (ARTHROPODS OR VERTEBRATES) OR THE GROWTH OF PATHOGENIC ORGANISMS (BACTERIA/FUNGI ETC.). WHILE WE CANNOT ELIMINATE ALL INTRODUCTIONS FROM EMPLOYEES, CUSTOMERS AND DELIVERIES, WE CAN VIRTUALLY ELIMINATE INTRUSIONS DUE TO CONSTRUCTION AND DESIGN FAULTS AND, OPERATIONAL BEHAVIOR.

IN GENERAL, WHEN YOU THINK ABOUT EXCLUDING PEST FROM A BUILDING, YOU CAN THINK OF THE PESTS AS WATER. WE DON'T WANT UNNECESSARY WATER GETTING INTO THE BUILDING SO WE ADD APPROPRIATE BARRIERS. FROM VAPOR BARRIERS TO CONCRETE CURBS, WE BLOCK OR REDIRECT WATER. SAME WITH PESTS; FOR INSECTS WE CAN USE MATERIALS LIKE ELASTOMERIC SEALANTS AND HARD SURFACES TO PREVENT INTRUSION, FOR RODENTS, THE SAME CONCEPTS APPLY BUT THE BUILDING MATERIALS/PRACTICES HAD TO BE MORE ROBUST (CEMENTITIOUS MATERIALS WITH METAL REINFORCEMENT).

FOR ALL ASPECTS OF PEST PREVENTION ACTIVITIES, WE ARE MOVING TOWARDS SEASONALLY AND GEOGRAPHICALLY ATTENUATED (SAGA) © AND ENVIRONMENTALLY AND SOCIALLY RESPONSIBLE PEST PREVENTION PROGRAMMING © TO ACHIEVE MANAGEABLE, SITE-SPECIFIC SCOPES OF WORK.

GUIDING PRINCIPLE 1 - SITE SELECTION:
YOU HAVE TO TRY TO LOOK AT EVERY PHYSICAL ASPECT OF THE BUILDING AND ITS ENVIRONMENT. TO THIS END, IT IS PREFERABLE TO ESTABLISH A RELATIONSHIP WITH A LOCAL MEMBER OF YOUR PEST PREVENTION PROVIDER'S MANAGEMENT TEAM AND ASK THEM TO GIVE SOME GENERAL GUIDANCE DURING THE SITE SELECTION PROCESS. THEY MAY BE AWARE OF NEIGHBORHOOD LEVEL PEST PREVENTION CONCERNS AND HAVING THEM INVOLVED FROM THE BEGINNING ALLOWS THEM TO PROPERLY CREATE/MODIFY THE PRE AND POST CONSTRUCTION SERVICE PLANS. FROM BOTH GLOBAL AND LOCAL PERSPECTIVES, LOCATION CHARACTERISTICS ARE CLEARLY THE DRIVING FORCE IN POTENTIALLY PREDICTABLE PEST PROBLEMS. MUCH OF THE RELEVANT INFORMATION NEEDED ABOUT ANY PARTICULAR STORE IS ALREADY IN TACO BELL'S HANDS IN THE FORM OF PEST ACTIVITY DATA. ADDITIONAL INFORMATION CAN BE GATHERED FROM LOCAL EXPERTS (IF AVAILABLE) OR ASSESSED BY TACO BELL CORPORATE QA/FOOD SAFETY STAFF.

QA/FOOD SAFETY RESOURCES ARE AVAILABLE TO COORDINATE OR PERFORM ASSESSMENTS AS NEEDED.

THE CRITICAL FACTORS, IRRESPECTIVE OF BROAD GEOGRAPHICAL LOCATION, WOULD BE; STAND ALONE VS. MALL LOCATION, COMBINATION FACILITY*, THE AGE OF THE FACILITY**, AND GENERAL NEIGHBORHOOD CONDITIONS.

FACTORS THAT WE CANNOT CONTROL, BUT CAN ANTICIPATE/MITIGATE:
a. WEATHER / CLIMACTIC ZONE
b. LOCALIZED SPECIAL PEST ISSUES (PAST PEST HISTORY)
c. BUILDING LOCATION - PARTICULARLY A CONCERN IN URBAN AREAS. LITTER, AGING UTILITIES, SUBWAYS AND FOOT TRAFFIC LEVELS MUST BE ACCOUNTED FOR.
d. BUILDING AGE
e. BUILDING PLACEMENT
f. NEIGHBORHOOD (PHYSICAL AND SOCIOECONOMIC) CONDITIONS
* COMBINATION FACILITY CAN MEAN AN INLINE LOCATION OR MULTI-USE FACILITY (FOR EXAMPLE, ADDING A BAR TO A RESTAURANT OR PLACING A RESTAURANT IN A TRAVEL CENTER ADDS COMPLEXITIES DUE TO INCREASED PEST OPPORTUNITIES.)
**THE AGE OF THE BUILDING INTRODUCES ISSUES LIKE: CONSTRUCTION MATERIALS AND BUILDING STANDARDS.
GUIDING PRINCIPLE 2 – BUILDING DESIGNED FOR EXCLUSION, INSPECTION, CLEANING AND TREATMENT: USING PROPER TECHNIQUES TO KEEP PESTS OUT IS EASY ENOUGH BUT TIME AND USE EVENTUALLY TAKE THEIR TOLL ON THE ENTIRE STRUCTURE. THE RESULTS CAN BE RAPID DETERIORATION AND PEST INTRUSION/INFESTATION. 1. USE HIGH QUALITY CONSTRUCTION MATERIALS TO PREVENT THE INTRUSION OF MOISTURE AND PESTS (SPECIFICS AVAILABLE IF REQUIRED). MOISTURE INVITES THE FULL SPECTRUM OF PESTS TO ENTER AND BECOME ESTABLISHED IN THE BUILDING, RESULTING IN A THREAT TO PUBLIC HEALTH AND DAMAGE TO THE ASSET. THIS APPLIES TO MOISTURE WITHIN THE BUILDING AS WELL AS ENVIRONMENTAL MOISTURE. COUNTERS, BEVERAGE MACHINES, DRAINS, SINKS ALL HAVE TO BE WELL SEALED TO PREVENT MOISTURE FROM PENETRATING INTO CRACKS, CREVICES OR VOIDS.

1. THE PESTS OF PRIMARY FOOD SAFETY/PUBLIC HEALTH CONCERN ARE LARGELY CRYPTIC IN NATURE, THEY EITHER LIKE TO HIDE (RODENTS), MUST HIDE (COCKROACHES) OR SIMPLY REQUIRE QUIET, DARK, OUT OF THE WAY PLACES TO BREED (COCKROACHES AND FLIES). RESTAURANT STAFF AND PEST PREVENTION PARTNERS MUST BE ABLE TO MOVE EQUIPMENT AROUND TO SEE WHAT IS HAPPENING.

2. THE FLOORS, DRAINS AND WALLS HAVE TO BE DURABLE AND EASILY CLEANED A. AVOID TILE WHEN POSSIBLE (GROUT LINES) I. WHEN TILE MUST BE USED, EPOXY GROUT IS PREFERRED B. DRAINS MUST BE POSITIONED TO BE EASILY INSPECTED AND CLEANED C. EQUIPMENT MUST BE EASY TO MOVE TO CLEAN THE FLOOR D. EQUIPMENT MUST BE DESIGNED TO BE EASILY CLEANED.

3. TREAT WALL VOIDS AND DIFFICULT TO INSPECT STRUCTURAL AREAS WITH BORACARE (DISODIUM OCTABORATE TETRAHYDRATE) TO ASSIST IN THE PREVENTION OF ARTHROPOD INFESTATIONS.

4. TREAT AREAS PRONE TO INFECTION WITH MOLD-CARE (DIDECYL DIMETHYL AMMONIUM CHLORIDE).

5. BASEMENTS A. FOLLOW THE SAME EXCLUSION PRINCIPLES IN GENERAL TERMS B. ADDITIONAL PEST DEVICES MUST BE ADDED/ACCOMMODATED C. AIRFLOW IS CRITICAL. SINCE FOOD RELATED ITEMS WILL BE STORED IN THESE AREA, WE MUST NOT ALLOW MOISTURE TO FOSTER THE DEVELOPMENT OF MICROORGANISMS (BOTH PATHOGENIC AND NON-PATHOGENIC).

6. EXTERIOR DESIGN TO ELIMINATE INTRODUCTION POINTS AND HARBORAGE AREAS A. NO TREES OVERHEAD OR TOUCHING THE BUILDING B. NO SHRUBS, BUSHES, VINES TOUCHING OF IN CLOSE PROXIMITY TO THE BUILDING C. STRATEGICALLY PLACE WASTE (COMPOST/RECYCLING/LANDFILL) RECEPTACLES AWAY FROM THE BUILDING WHEREVER POSSIBLE AND HAVE THEM IN WELL-LIT AREAS (IF APPROPRIATE).

7. LIGHTING SHOULD BE INDIRECT WHENEVER POSSIBLE TO PREVENT NIGHT FLIERS FROM BEING DRAWN TO THE BUILDING.

8. AVOID SEMI-ENCLOSED (PARTIAL SOFFIT) AREAS WHERE BIRDS AND MAMMALS CAN HARBOR.

(APPENDIX FOLLOWS)

APPENDIX
PEST MANAGEMENT, IN A STANDALONE SETTING IS ACTUALLY QUITE SIMPLE WHEN PROPERLY EXECUTED BY ALL PARTICIPANTS. AS IT RELATES TO BUILDING DESIGN AND CONSTRUCTION, THERE ARE JUST A FEW PRINCIPLES THAT IF ADDRESSED WITH GREATLY DIMINISH PEST ISSUES.

1. DON'T PROVIDE ANY UNNECESSARY ATTRACTANTS WHEN POSSIBLE AND, MITIGATE WHEN UNAVOIDABLE. 2. IF THE BUILDING IS TIGHT, THEN PESTS CANNOT COME IN EASILY. 3. MAKE SURE THAT THERE IS ENOUGH AIRFLOW INTO THE BUILDING FROM ABOVE TO FACILITATE POSITIVE PRESSURE AT THE DOORS. 4. IF THE PESTS CAN'T GET INTO THE BUILDING, THERE WON'T BE AN INTRODUCTION. 5. IF THEY DO GET IN THE BUILDING BUT, HAVE NOWHERE TO HIDE, THERE WON'T BE AN INFESTATION. A. EQUIPMENT, WHEN POSSIBLE SHOULD BE TIGHTLY SEALED. I. EXAMPLE, MANY TIMES, STAINLESS "CURTAINS" ARE PLACED TO SHIELD THE UNDERSIDE OF EQUIPMENT FROM VIEW. THIS WILL NOT KEEP ANYTHING OUT. B. WHEN NOT POSSIBLE, MAKE IT EASY TO OPEN FOR INSPECTION AND TREATMENT. ALSO, CONSIDER THE NEED FOR MONITORING DEVICES NEAR ENTRY POINTS. I. EXAMPLE, IF A PIECE OF EQUIPMENT MUST HAVE A HOLE AT THE BOTTOM, MAKE SURE THAT A DEVICE CAN BE PLACED APPROPRIATELY IN OR UNDER IT. KEEP VISUAL INSPECTION IN MIND TOO. C. AVOID DIFFICULT TO CLEAN EQUIPMENT. IF IT ISN'T EASY, PEOPLE WON'T CLEAN IT. D. IN SUMMARY, IF YOU CAN, KEEP THEM OUT. IF YOU CAN'T MAKE SURE THE EQUIPMENT CAN BE EASILY CLEANED AND INSPECTED.

I. EXTERIOR SANITARY DESIGN
A. BUILDING PERIMETER:
- THERE ARE NO OUTSIDE PITS OR DEPRESSIONS. THE PERIMETER SLOPES AWAY FROM THE BUILDING. • A 2-FOOT GRAVEL BARRIER IS PRESENT WITH DRAINS IN CRITICAL DRAINAGE AREAS. • EXPANSION JOINTS AROUND PERIMETER ARE FILLED WITH CORRECT JOINT FILLER. • THERE ARE NO OUTSIDE STORAGE AREAS THAT COULD PROVIDE HARBORAGE FOR PESTS. • NO CHAIN LINK FENCES ARE PRESENT NEAR THE FACILITY. • BUILDING DESIGN ALLOWS FOR EASY WEED ACCESS/REMOVAL AND LAWN MAINTENANCE.
- EXTERIOR SMOKING AREA IS PROVIDED FOR EMPLOYEES SUCH THAT THE DEBRIS FOUND IN THESE AREAS DOES NOT ATTRACT PESTS INTO THE FACILITY. • BUILDING DESIGN DETERS BIRDS FROM NESTING OR LOAFING.

B. UTILITY LINES:
- UTILITY LINES, ELECTRICAL CONDUITS, AND PLUMBING ENTRANCES INTO THE BUILDING ARE COMPLETELY SEALED, PREVENTING PEST ENTRY. • PIPES OR WIRING ARE NOT GROUPED INTO GANGS AND ARE NOT HOUSED IN METAL TUBES. • UTILITY SYSTEMS ARE EASILY ACCESSIBLE AND EASILY OPENED FOR THOROUGH CLEANING. • RODENTS ARE DETERRED FROM CLIMBING PIPES ON THE BUILDING EXTERIOR BY FITTED METAL RAT GUARDS. GUARDS ARE MADE OF 26-GAUGE SHEET METAL, FITTED CLOSE TO THE WALL AT THE REAR, AND PROJECTING 12 INCHES OUTWARD FROM THE PIPE. • OUTSIDE VERTICAL PIPES ARE COATED WITH GLOSSY PAINT TO PREVENT RODENTS FROM CLIMBING THEM. • WHERE POSSIBLE, UTILITY LINES ARE TRENCHED, RATHER THAN SUSPENDED.

C. PARKING AND ROADWAYS: • ALL PARKING AND TRAFFIC AREAS ARE PAVED. • DRAINS ARE PLACED IN ALL DOCK AND DUMPSTER AREAS. • DRAINS ARE FREE OF DEBRIS.

D. LANDSCAPING: • PERIMETER FOLIAGE CLEARS BUILDING BY 18" MINIMUM AND NOT TALLER THAN 24 INCHES. • TREES ARE AT LEAST 30 FEET AWAY FROM BUILDING PERIMETER. • GROUND COVER DOES NOT INCLUDE PINE STRAW OR THATCHED GRASS. • GROUND COVER SUCH AS GARDEN STONES AND SPARSE LIVE PLANT COVER ARE USED.

E. EXTERIOR LIGHTING:
- BUILDING PERIMETER IS WELL LIGHTED. • EXTERIOR LIGHTS ARE LOCATED AT LEAST 30-40 FEET AWAY FROM EXTERIOR DOORS, SO THAT THEY DO NOT ATTRACT FLYING INSECTS INTO THE BUILDING. (IF FEASIBLE) • OUTSIDE LIGHTS ARE SHIELDED TO SHINE DOWN ONTO THE BUILDING PERIMETER AND DO NOT SHINE OUT/AWAY FROM THE FACILITY. SHADOW BOX FIXTURES PREFERRED. • BULBS LESS ATTRACTIVE TO INSECTS SUCH AS HIGH PRESSURE SODIUM ARE USED. • INSECT LIGHT TRAPS ARE LOCATED SUCH THAT THEY DO NOT DRAW INSECTS INTO THE FACILITY.

F. SANITARY DUMPSTER AND TRASH STORAGE:
- DRIVE AND STORAGE AREA ARE PAVED.
- TRASH STORAGE IS LOCATED AWAY FROM INCOMING GOODS AND ISOLATED FROM FACILITY. • TRASH STORAGE IS LOCATED IN A WALLED SPACE, WITH OPEN AREA AND MINIMAL AVAILABLE HARBORAGE FOR RODENTS, BIRDS, OR INSECTS. • TRASH STORAGE IS LOCATED DOWNWIND (PREVAILING WINDS) WHEN POSSIBLE. • TRASH STORAGE IS SEPARATED FROM FACILITY BY FIRE-RATED SEPARATION WALLS. • HOT WATER RINSE IS AVAILABLE AND PROPER DRAIN(S) ARE PRESENT. • HAND-SANITIZER PROVIDED FOR RE-ENTRY INTO THE FACILITY. • SANITATION DUMPSTER IS ADEQUATE FOR VOLUME, HAS A RAIN COVER, AND IS SEALED WITH NO LEAKS. • SIGN (FOR EMPLOYEES) IS PRESENT IN DUMPSTER AREA - KEEP THIS AREA CLEAR AND CLEAN. • SIGN (FOR EMPLOYEES) IS PRESENT IN DUMPSTER AREA - DO NOT FEED STRAY ANIMALS/BIRDS.

G. RECYCLING STORAGE:
- OUTSIDE STORAGE IS WELL DRAINED; PAVING IS DESIRABLE. • PLASTIC/GLASS - DEDICATED CONTAINERS ARE PROVIDED; AREA FOR DRY STORAGE IS PROVIDED. • HOT WATER AVAILABLE WITH FLOOR DRAINS FOR CLEANING.

H. ROOF CONSTRUCTION:
- SINGLE MEMBRANE OR SMOOTH ASPHALT IS PREFERRED; AVOID BALLASTED ROOFING OR HOT MOP ROOFS. • ACCESSES TO ROOF ARE CONVENIENTLY LOCATED, COVERED AND SEALED WHEN CLOSED. • CURBING (RUN-OFF STOP) IS DESIGNED TO A 12-18 INCHES HEIGHT MINIMUM. • MINIMAL FLAT SURFACES ARE AVAILABLE FOR NESTING/LOAFING SITES. • ROOF DESIGNED TO DETER STORAGE OF ANY KIND. • NO SKY LIGHTS ARE PRESENT; OR ONLY DOUBLE DOMED SKYLIGHTS ARE USED AND ARE WELL SEALED. • THERE ARE NO BRIGHT COLORS ATTRACTIVE TO INSECTS (YELLOW, RED), OR BIRDS (WHITE). • ONLY QUALITY FLASHING IS USED. • EQUIPMENT AND METAL DUCTWORK ARE PROPERLY MOUNTED WITH ALL JOINTS SEALED.

ROOF DRAINAGE:
- ALL ROOF DRAIN PIPES PROPERLY TREATED WITH NH3 TO AVOID RUSTING. • OPEN PIPES AND VENTS ARE SCREENED WITH 1/4 -INCH SCREENING OR CAPPED TO KEEP PESTS OUT. • ROOF DRAIN PIPES ARE INSULATED TO PREVENT FREEZING. • ROOF DRAINS ARE ROUTED TO THE SANITARY SEWER; DOWN-SPOUTS CARRY WATER AWAY FROM BUILDING. • CANOPY RUNOFF IS ROUTED AND DOES NOT RUN OFF ANY EDGE. • NO DEPRESSIONS OR SITUATIONS EXIST THAT CREATE STANDING WATER.

F. DOORS: • VESTIBULES ARE PRESENT AT EACH EMPLOYEE AND FACILITY ENTRY-WAY WHENEVER POSSIBLE. • PEDESTRIAN DOORS OPEN TO THE (OUTSIDE) OF THE FACILITY ONLY.
- PEDESTRIAN DOORS ARE CONSTRUCTED WITH GALVANIZED OR STAINLESS STEEL FRAME. • PEDESTRIAN DOORS HAVE PROPER DOOR-SWEEPS INSTALLED. BRUSHES ARE USED; RUBBER IS NOT. • PEDESTRIAN DOORS ARE (FOAM) INSULATED. NO FIBERGLASS INSULATION IS USED. • WOODEN DOORS ARE NOT PRESENT. • PEDESTRIAN DOORS HAVE A DOOR CLOSER; THERE ARE NO SCREW-DOWN THRESHOLDS OR "DOOR STOPS". • SWEEP-TYPE WEATHER STRIPPING IS USED AND NO PENETRATING LIGHT DETECTED.

II. INTERIOR SANITARY DESIGN
A. FOUNDATION:
- THE CRAWL SPACE OR BASEMENT IS EASILY ACCESSED. • PRESSURE TREATED WOOD IS USED IN ANY LOCATION NEAR OR BELOW GRADE. • NO VISIBLE CRACKS OR HOLES PRESENT IN THE WALLS. ALL OPENINGS GREATER THAN 1/4 INCH ARE SEALED. • 12-INCH BAND OF HARD GLOSSY PAINT IS APPLIED AROUND OUTSIDE BRICK OR STONE WALLS TO DETER CLIMBING RATS AND MICE. • ALL UTILITIES BELOW GRADE ARE EASILY ACCESSED AND ARE LABELED

B. FLOOR DRAINS:
- ALL FLOOR DRAINS ARE DESIGNED WITH TRAPS WITH AT LEAST 3 INCHES OF WATER SEAL, AND THEY ARE FITTED WITH SECONDARY STRAINERS TO PREVENT PEST ENTRY. • FLOOR DRAINS EXIST IN PRODUCTION AREA EVERY 400 SQ. FT. • FLOOR DRAINS ARE CONSTRUCTED OF STAINLESS STEEL FOR EASIER CLEANING. • OVERHEAD PIPING AND DRAINS (IN CRAWL SPACE) ARE WELL SEALED AND DO NOT LEAK. • WHERE INSECTS MAY BE A PERSISTENT PROBLEM, INSECT SCREENS ARE INSTALLED IN FRONT OF FILTER MEDIA. • SCREENS ARE EASY TO REMOVE FOR CLEANING, AND THEY ARE NON-CORROSIVE, 18- MESH SCREEN. • VENTS ARE COVERED WITH METAL GRILLWORK AND ARE BACKED BY RUST RESISTANT SCREENING. • FLOOR DRAINS INCLUDED ON MASTER SANITATION SCHEDULE - MINIMUM 1 WEEK CLEANING.

C. WALLS:
POURED CONCRETE IS PREFERRED FOR INSIDE WALLS, HIGH DENSITY FILLED CONCRETE BLOCK 1ST 6-8 FT. IS ACCEPTABLE IN OTHER AREAS. • IF METAL SIDING IS UTILIZED THE BOTTOM 8' OF THE WALL IS POURED CONCRETE SO AS TO PROVIDE A SEAL TO THE CONCRETE WITH THE OVERLAPPING SIDING. • NO VOIDS ARE PRESENT; ALL VOIDS INSULATED WITH PROPER MATERIAL THAT DETERS PESTS. • WALL AND FLOOR JUNCTURES ARE SEALED WHERE POSSIBLE. • IF STEEL STUDS ARE USED, OPENINGS EXIST THAT ALLOW EASY FLOW OF DUST APPLICATIONS. • FILLER COAT IS APPLIED TO ALL BLOCK WALLS. FOR SMOOTH BLOCK WALL SURFACES, PAINT FILLER IS USED. SEALING IS ADEQUATE, SUCH THAT THERE ARE NO VISIBLE CRACKS. • WALL FILLERS - AVOID PEARLITE, FIBERGLASS, ROCK WOOL. HIGH DENSITY FOAM PREFERRED.

- PIPES ARE PROPERLY RUST-PROOFED WITH NH3, PRIOR TO FOAM INSULATION OF THE WALLS. • ALL PIPE PENETRATIONS ARE PROPERLY SEALED/CAULKED. PIPE PENETRATIONS ARE CUT AND SEALED ON THE SAME DAY SO THAT OPENINGS OR JUNCTIONS REMAIN CLEAN. • TO DETER BIRD OR RODENT NESTING SITES, EXTERIOR PIPES AND CONDUITS ARE NOT ARRANGED IN GROUPS.

- ITEMS MOUNTED TO WALLS WITH LESS THAN A ¼" GAP SHOULD BE SEALED TO THE WALL. • ACCESS IS ALLOWED TO KEY UTILITY JUNCTIONS BEHIND WALLS; KNOCK OUT PANELS ARE PRESENT. • BUILDING CONSTRUCTION MINIMIZES THERMAL TRANSFER OF STRUCTURAL MEMBERS.

D. CEILINGS:
- CONCRETE CEILINGS ARE SMOOTH AND FREE OF PITS THAT MAY HARBOR INSECTS. • DROP CEILINGS ARE NOT PRESENT, BECAUSE OF POTENTIAL FOR FOOD/MOISTURE ACCUMULATION. (OBVIOUSLY NOT A "MUST" BUT, IT SURE MAKES IT EASIER) MAKING THEM MORE ACCESSIBLE FOR INSPECTION WOULD AT LEAST BE BETTER.

E. INTERIOR LIGHTING:
- HIGH PRESSURE SODIUM BULBS ARE USED WHERE HIGH-INTENSITY LIGHT IS NEEDED. SODIUM LIGHTS LAST LONGER AND ARE LESS ATTRACTIVE TO INSECTS THAN FLUORESCENT LIGHTS. • FLUORESCENT LIGHTING IS AVOIDED - IT'S HARD TO KEEP CLEAN. • SKYLIGHTS ARE AVOIDED BECAUSE THEY CAN LEAK. • WALL SCONCE UNITS ARE STRATEGICALLY PLACED SO THAT THEY DO NOT COLLECT DEBRIS.

F. WINDOWS:
- SKYLIGHTS ARE AVOIDED BECAUSE THEY CAN LEAK. • DOUBLE-PANE AND WELL INSULATED WINDOWS ARE PREFERRED. • CAULKING IS USED FOR SMALL CRACKS AND CREVICES FOUND AROUND WINDOWS. • IF SCREENING IS USED, A MINIMUM OF 18 MESH IS RECOMMENDED; 30 MESH IS PREFERRED. • SCREENS ARE REINFORCED AT POINTS OF STRESS.

G. FANS AND HOODS:
- ALL FAN/HOOD HOUSINGS ARE SEALED. ADEQUATE SEALS EXIST BETWEEN FAN HOUSINGS AND ROOF. ALL FANS ARE ACCESSIBLE FOR CLEANING; ALL FANS MOUNTED HIGH ENOUGH FOR CLEANING. • ALL HOODS HAVE SCREENS AND FILTERS THAT ARE PROPERLY SIZED AND HAVE THE PROPER MESH. • ALL FILTERS ARE EASILY CHANGED AND/OR CLEANED. • ALL FILTERS ARE INCLUDED ON THE MSS. • ALL DUCT WORK IS POSITIVELY PITCHED; THERE ARE NO HORIZONTAL DUCTS FROM HOODS. • ALL DUCT WORK IS ACCESSIBLE. • CONDENSATE DRAINS OR TRAPS ARE PRESENT.
- EXHAUST FANS ARE MAXIMUM DISTANCE FROM AIR INTAKE. • THERE IS NO AIRFLOW DIRECTLY ONTO FOOD PREP AREAS. • INBOUND AIR IS FILTERED AND DEHUMIDIFIED OR AIR-CONDITIONED.

H. FLOORS:
- SOURCES OF WATER DISCHARGE DO NOT CREATE STANDING WATER. • ENTIRE FLOOR IS SEALED.

I. CONSTRUCTION GAPS AND PENETRATIONS
- ALL PIPE PENETRATIONS ARE PROPERLY SEALED THE SAME DAY THEY ARE CUT. • EXPANSION JOINTS PRESENT ARE SEALED WITH PROPER JOINT COMPOUND. • ALL CRAWL SPACES ARE CLEAN AND FREE OF CLUTTER (E.G., WOOD DEBRIS) AFTER CONSTRUCTION. • ALL CRAWL SPACES AND BASEMENTS HAVE PROPER DRAINAGE AND VENTILATION. • ADEQUATE DRAINAGE IS AVAILABLE AND EQUIPPED WITH PUMPS FOR EXCESS WATER REMOVAL.

J. STOREROOMS:
- STOREROOMS HAVE METAL SHELVING; NO WOODEN SHELVING PRESENT. • STOREROOMS HAVE ADEQUATE LIGHTING. • STOREROOMS ORGANIZED & NOT CLUTTERED.

K. BATHROOMS:
- TOILETS ARE FLOOR MOUNTED WITH AUTOMATIC FLUSHING. • HAND WASH HAS AUTOMATIC VALVES. • BATHROOM WALLS ARE MONOLITHIC, SEALED, AND CLEANABLE. • BATHROOM FLOORS ARE MONOLITHIC. TILES AND VINYL SHEETING ARE AVOIDED. • FLOOR DRAINS ARE PRESENT TO ALLOW RINSING.

N. EMPLOYEE FACILITIES:
- OFFICE AREA'S DESIGN PROMOTES ACCESSIBILITY AND MINIMIZES CLUTTER. • OPEN STORAGE SPACES AREA IS PROVIDED FOR EMPLOYEES. • EMPLOYEE LOCKERS ARE AVOIDED, BUT IF INSTALLED ARE ELEVATED WITH ACCESS BEHIND AND UNDER.

III. PEST PROOFING
PEST EXCLUSION: SEALING OR SCREENING ALL POTENTIAL ENTRY POINTS INTO THE BUILDING TO KEEP PESTS FROM COMING INSIDE. PEST ISOLATION (CONCEPT): PEST PROOF INSIDE THE BUILDING TO CONFINE PESTS AND KEEP THEM FROM MOVING INTO NEW AREAS. AN EXAMPLE MIGHT BE COMPARTMENTALIZING A BUILDING (LIKE SHIP BULKHEADS) TO ISOLATE AN INFESTATION IN ONE AREA AND MAKE PESTS EASIER TO ERADICATE.

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SEALING HARBORAGES: WELL SEALED BUILDINGS ARE LESS ATTRACTIVE TO PESTS, AS FEWER HIDING PLACES ARE AVAILABLE AND MAKE PESTS EASIER TO ELIMINATE.

PEST OPENINGS MUST BE LESS THAN

PIGEON	1.5 - INCH
SPARROW	4/5 - INCH
RAT - YOUNG	1/3 - INCH
MOUSE - ADULT	2/5 - INCH
MOUSE - YOUNG	1/5 - INCH
GERMAN COCKROACH - ADULT	1/5 - INCH
GERMAN COCKROACH 1ST INSTAR NYMPH	1/16 - INCH
HOUSE FLY	1/12 - INCH
MOSQUITO	1/20 - INCH

EXTERIOR PEST PROOFING: PEST EXCLUSION HAS BEEN SHOWN TO BE EFFECTIVE, ESPECIALLY FOR BIRDS AND RODENTS. EXAMPLES OF PEST EXCLUSION ARE INSTALLING METAL KICK PLATES ON DOORS, SCREENING VENTS AND EAVES, SEALING OPENINGS WHERE PIPES AND UTILITY LINES ENTER BUILDINGS, AND INSTALLING METAL RODENT GUARDS ON OVERHEAD LINES OR VERTICAL PIPES.
INTERIOR PEST PROOFING: WHILE INTERIOR SEALING OF OPENINGS AROUND PIPES AND LINES HAS BEEN PROVEN EFFECTIVE FOR MICE AND RATS, MANY STUDIES HAVE SHOWN THAT IT IS NOT VERY EFFECTIVE AGAINST COCKROACHES. IT IS VERY LABOR INTENSIVE AND BUILDING OR MAINTENANCE STAFF MAY NOT HAVE THE KNOWLEDGE OF PEST HABITS TO DO THIS INTERIOR PEST PROOFING CORRECTLY. IN FACT, SEALING OPENINGS INSIDE A STRUCTURE CAN ACTUALLY BE DETRIMENTAL BECAUSE VOIDS MAY NO LONGER BE ACCESSIBLE TO TREATMENT, BUT MAY STILL BE ACCESSIBLE TO COCKROACHES.

IV. INTERIOR PEST PROOFING
A. DOORS:
- ALL DOORS ARE FITTED TO CLOSE AUTOMATICALLY. • ALL DOOR CASINGS ARE PROTECTED WITH SHEET METAL TO PREVENT MICE AND RATS FROM WIDENING CRACKS BY GNAWING.
- ALL WOODEN DOORS HAVE A 12-INCH SHEET METAL (26-GAUGE) KICK PLATE ATTACHED TO THE OUTSIDE OF THE DOOR, WITH THE LOWER EDGE NOT MORE THAN 1/4 -INCH FROM THE FLOOR. • HOLLOW METAL DOOR SEAMS ARE SEALED BY SPOT WELDING TO PREVENT INSECT ENTRY. • ALL SCREEN DOORS OPEN OUTWARDLY AND ARE FITTED WITH A SCREEN MESH OF NO LARGER THAN 1/18 INCH TO PREVENT ENTRY OF SMALL INSECTS INTO THE BUILDING. • DOUBLE DOORS ARE INSTALLED IN REGIONS WHERE FLYING INSECTS ARE PERVASIVE.
- (IF FEASIBLE) • EXTERIOR LIGHTS AROUND DOORS HAVE 'BUG LIGHTS' INSTALLED OR LIGHTING IS AT LEAST 30-40 FEET AWAY FROM EXTERIOR DOORS SO THAT THEY DO NOT ATTRACT FLYING INSECTS ONTO THE PREMISES. (IF FEASIBLE) • AIR DOORS OR PLASTIC CURTAINS (STRIP DOORS) ARE INSTALLED IN DELIVERY ENTRY WAYS TO PREVENT THE ENTRY OF FLYING PESTS. AIR VELOCITY OF AIR DOORS IS A MINIMUM OF 1600 FT/MIN. (IF FEASIBLE)
- ALL EXTERIOR DOORS TO BE STEEL OR STOREFRONT WITH ALUMINUM METAL. WOODEN DOORS TO EXTERIOR NOT ALLOWED.

B. WINDOWS:
- OPERABLE WINDOWS, FITTED WITH AT LEAST 18-INCH MESH SCREENING. SCREENING IS REINFORCED AT POINTS OF STRESS. • ALL CRACKS AND CREVICES AROUND WINDOWS ARE THOROUGHLY CAULKED.

C. FOUNDATION:
- ALL CRACKS AND HOLES ARE PATCHED-UP WITH CEMENT. ALL OPENINGS GREATER THAN 1/4 INCH ARE SEALED TO EXCLUDE MICE; ALL OPENINGS GREATER THAN 1/2 INCH ARE SEALED AGAINST RATS. • CLIMBING BY RATS AND MICE IS DETERRED BY A 12-INCH BAND OF HARD GLOSSY PAINT, OR POLISHED METAL, AROUND THE OUTSIDE OF BRICK WALLS, UP TO ABOUT 3.5 FT. ABOVE THE GROUND. • FOR TEMPORARY EXCLUSION, UNTIL MORE PERMANENT REPAIRS CAN BE MADE, STEEL WOOL IS TIGHTLY PLUGGED INTO CRACKS AND HOLES TO PREVENT ENTRY OF RODENTS.

D. PEST PROOFING MATERIALS 1. BACKING/FILLING MATERIALS: • MATERIALS SUCH AS COPPER MESH, PLUMBER'S OAKUM, HARDWARE CLOTH AND/OR FOAM RUBBER ARE (FIRST) USED TO FILL GAPS THAT EXCEED THE MAXIMUM SIZE RECOMMENDED FOR A SEALING PRODUCT. • THESE MATERIALS ARE PLACED IN THE OPENING FIRST, AND THEN CAULKED OR SEALED OVER.

2. SCREENING MATERIALS:
- STEEL WOOL IS USED TO PLUG SMALL OPENINGS WHERE PESTS MAY ENTER OR MOVE WITHIN STRUCTURES. STEEL WOOL IS USEFUL WHERE AIR MOVEMENT IS DESIRED, BUT THERE IS LOW HUMIDITY ONLY. STEEL WOOL WILL RUST, SO IT SHOULD NOT BE USED IN AREAS OF HIGH MOISTURE. • COPPER MESH IS USED IN LOCATIONS WITH HIGH HUMIDITY OR MOISTURE (STEEL WOOL WILL RUST). • WINDOW SCREEN (18 MESH MINIMUM) IS USED TO EXCLUDE INSECTS (NOT WILDLIFE) FROM SOFFIT VENTS IN ATTICS, CRAWL SPACE VENTS, AND FRESHAIR INTAKE VENTS FOR THE STRUCTURE. • HARDWARE CLOTH IS HEAVIER THAN WINDOW SCREENING AND IS USED TO EXCLUDE RODENTS, BATS, BIRDS, AND WILDLIFE FROM ATTICS AND CRAWL SPACES. IT CAN ALSO BE USED TO PREVENT WILDLIFE FROM TUNNELING UNDER STRUCTURES.

CONSTRUCTION CHECKLIST:

DURING CONSTRUCTION 3 MANDATORY AND 1 OPTIONAL VERIFICATION STEPS ARE REQUIRED:

1. (PREFERRED BUT NOT REQUIRED) PEST PROVIDER IS BROUGHT IN DURING SITE SELECTION FOR PRELIMINARY EVALUATION. TACO BELL HAS 4 NATIONAL PROVIDERS OF PEST MANAGEMENT & PREVENTION.
2. AFTER DEMO, PMP ESTABLISHES A PLAN FOR EXCLUSION (SEALING OF BUILDING). IT IS IMPORTANT THIS STEP HAPPENS AFTER ALL OF THE WALLS ARE OPEN TO IDENTIFY ALL PENETRATIONS AND AREAS OF RISK.
3. AFTER EXCLUSION WORK IS COMPLETE, BUT BEFORE WALLS ARE CLOSED UP, PMP CONDUCTS A 2ND EVALUATION.
4. AFTER WALLS ARE CLOSED UP AND TYPICALLY A FEW DAYS BEFORE A STORE OPENS, A FINAL WALK-THRU IS CONDUCTED TO ENSURE THAT ALL DEVICES ARE IN PLACE AND THE INTEGRITY OF THE EXCLUSION PLAN IS STILL INTACT.

*ADDITIONAL VISITS MAY BE REQUIRED PER PEST VENDOR RECOMMENDATION.

NOTE: DO NOT SEAL EXTERIOR WEEP HOLES @ BOTTOM OF WALLS OR WINDOWS.

CEILING/WALL/FLOOR

EXTERIOR PIPES

VENTS

OTHER AREAS RAT PROOFING IS REQUIRED:

· TOILET GUARDS

· FLOOR TRAPS WITH LATCH GRATES

· MESH OVER SEWER ROOF VENTS

PIPE PENETRATIONS

RAT PROOFING DETAILS

GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
	04.01.22	Issued for Bid

CONTRACT DATE: 11.18.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314703
STORE NUMBER: 454826
PA/PM: JW
DRAWN BY.: RS
JOB NO.: 2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

TACO BELL

ENDEAVOR 2.0
PEST PREVENTION GUIDE

G3.0

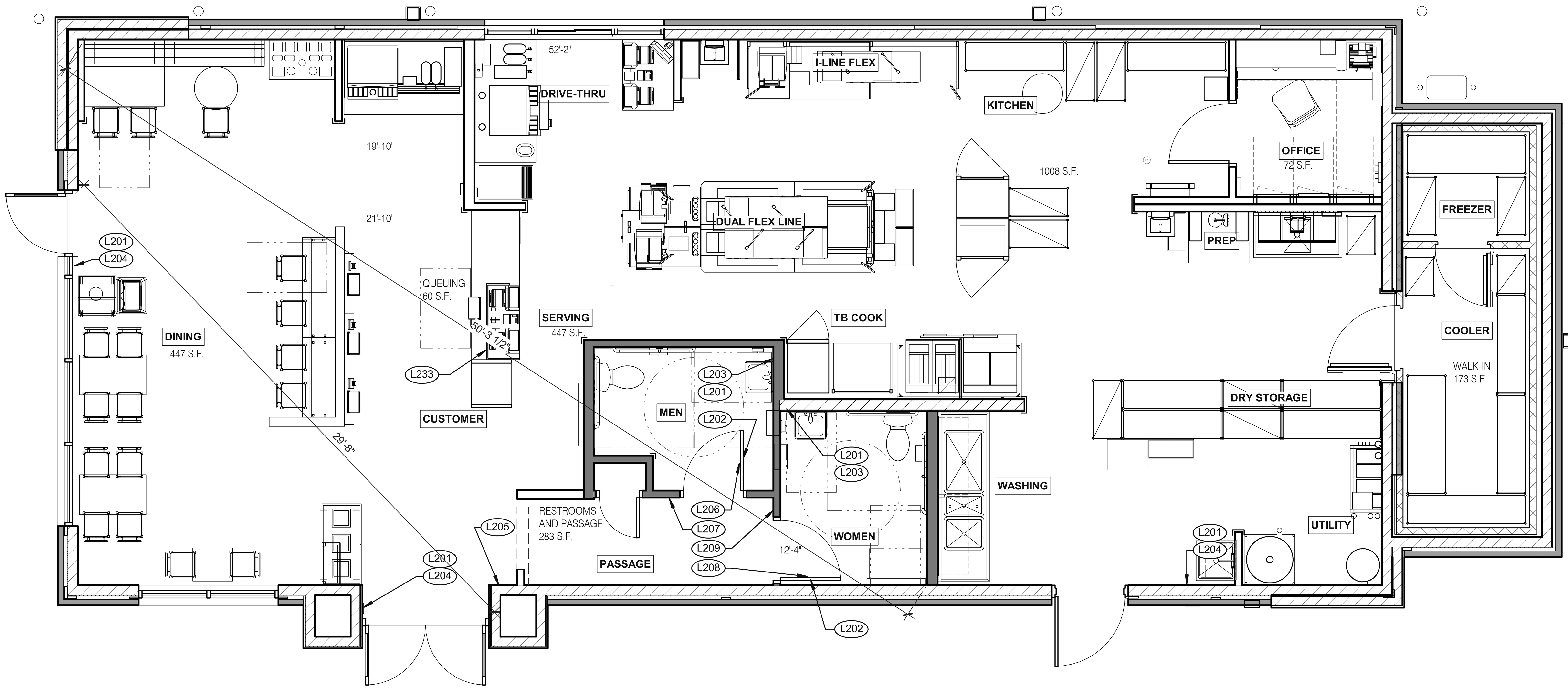
PLOT DATE: 3/31/2022 1:03:35 PM

C:\Users\cspisak\OneDrive - GPD Group\Documents\TB 314703 Mt Holly NC - ARCH_SM20_CSpisakNKMSA.rvt

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

EGRESS WIDTH REQ'D - 8.4"
EGRESS WIDTH PROVIDED - 33"
MAXIMUM OCC. LOAD CAPACITY - 135
ACTUAL OCC. LOAD - 42/2 = 21 OCC.

TYPE	AREA		FACTOR			OCCUPANTS
DINING ROOM	447	S.F.	1:15	S.F.	(NET)	30
QUEUING	60	S.F	1:5	S.F.	(NET)	12
KITCHEN	1008	S.F.	1:200	S.F.	(GROSS)	6
OFFICE	72	S.F.	1:100	S.F.	(GROSS)	1
ACCESSORY STORAGE	173	S.F.	1:300	S.F.	(GROSS)	1
ACCESSORY RESTROOMS & PASSAGE	283	S.F.	0		(GROSS)	0
TOTAL						50



EGRESS WIDTH REQ'D - 8.4"
EGRESS WIDTH PROVIDED - 54"
MAXIMUM OCC. LOAD CAPACITY - 270
ACTUAL OCC. LOAD - 42/2 = 21 OCC.

EGRESS WIDTH REQ'D - 1.6" (KITCHEN ONLY)
EGRESS WIDTH PROVIDED - 39"
MAXIMUM OCC. LOAD CAPACITY - 195
ACTUAL OCC. LOAD - 8 OCC.

SIGNAGE PLAN 1/4" = 1'-0" **1**

TAG	SIGN DESCRIPTION	SIGN VERBIAGE	SIZE	MOUNTING HEIGHT	QTY	LOCATION IN RESTAURANT
L201	Smoking	No Smoking or electronic cigarette use. This is a smoke free establishment	1/16 x 9 x 6	48" MIN. A.F.F. 60" MAX. A.F.F.	5	1 in each restroom, 1 at each door
L202	Clean Restroom	To our customers:We check our restrooms every 30 minutes to make sure they are always ready for you. If we have missed something, please tell our manager on duty. Thank you	1/16 x 6 x 9	60" A.F.F.	2	1 inside each restroom (back of restroom door)
L203	Hand Wash Notice	Employees must wash hands before returning to work	1/16 x 6 x 6	60" A.F.F.	2	1 inside each restroom near sink
L204	Exit (w/ Braille)	Exit	1/16 x 6 x 6	60" A.F.F.	4	1 at each exit, mounted on wall, according to ADA guidelines
L205	Occupancy	Maximum occupancy xxx persons	1/16 x 6 x 6	8'-0" to center of sign	1	Above customer exit. Only 1 is needed
L206	Men's Restroom Triangle (W/B)	INFOGRAPHIC of male	1/4 x 12 x 12	60" A.F.F.	1	Mounted on men's restroom door
L207	Men's Restroom (w/ Braille)	INFOGRAPHIC of male and braille to read: Men's restroom	1/4 x 10 x 6.5	60" A.F.F.	1	Mounted on wall next to restroom door. refer to plans and ADA guidelines for exact location
L208	Women's Restroom Circle (W/B)	INFOGRAPHIC of female	1/4 x 12 x 12	60" A.F.F.	1	Mounted on women's restroom door
L209	Women's Restroom (w/ Braille)	INFOGRAPHIC of male and braille to read: Women's restroom	1/4 x 10 x 6.5	60" A.F.F.	1	Mounted on wall next to restroom door. refer to plans and ADA guidelines for exact location
L233	If you need assistance? ADA	Please ask if you need assistance. And ADA infographic	1/16 x 3 x 6	60" A.F.F.	1	At front counter

STANDARD REQUIRED SIGNAGE **3**

NOT USED **2**

GPD Engineering and Architecture
Professional Corporation - 52715

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03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

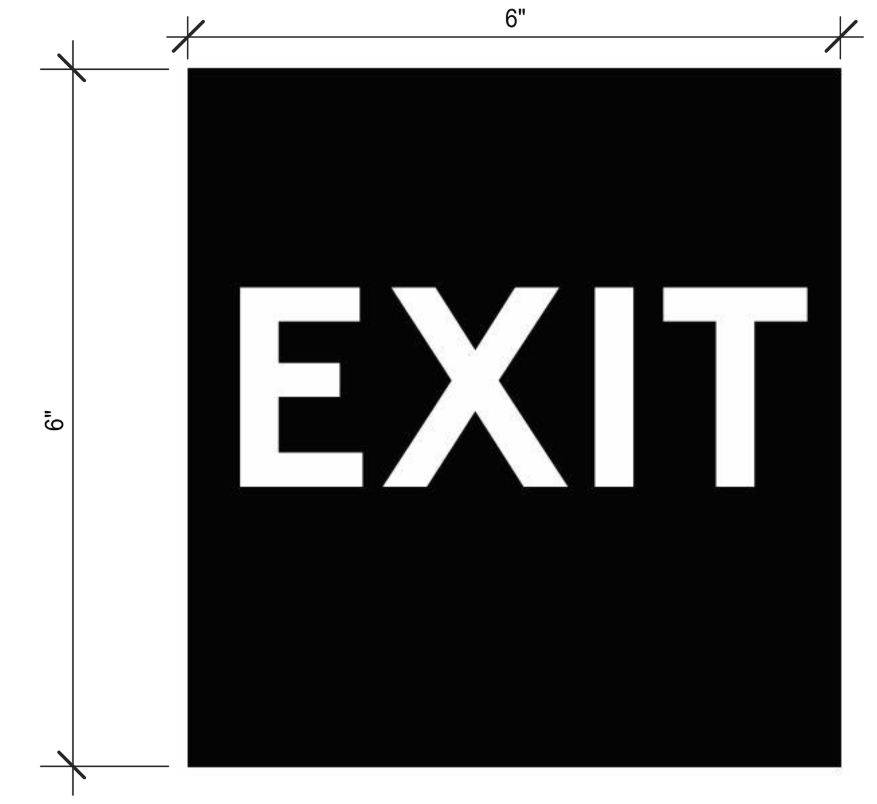
ENDEAVOR 2.0
LIFE SAFETY PLAN

G4.0

PLOT DATE: 3/31/2022 1:03:38 PM

3 STREAM TRASH 1 - BIN LABELS (L220) 13

WOMEN RESTROOM WHITE SIGN (L208) 9

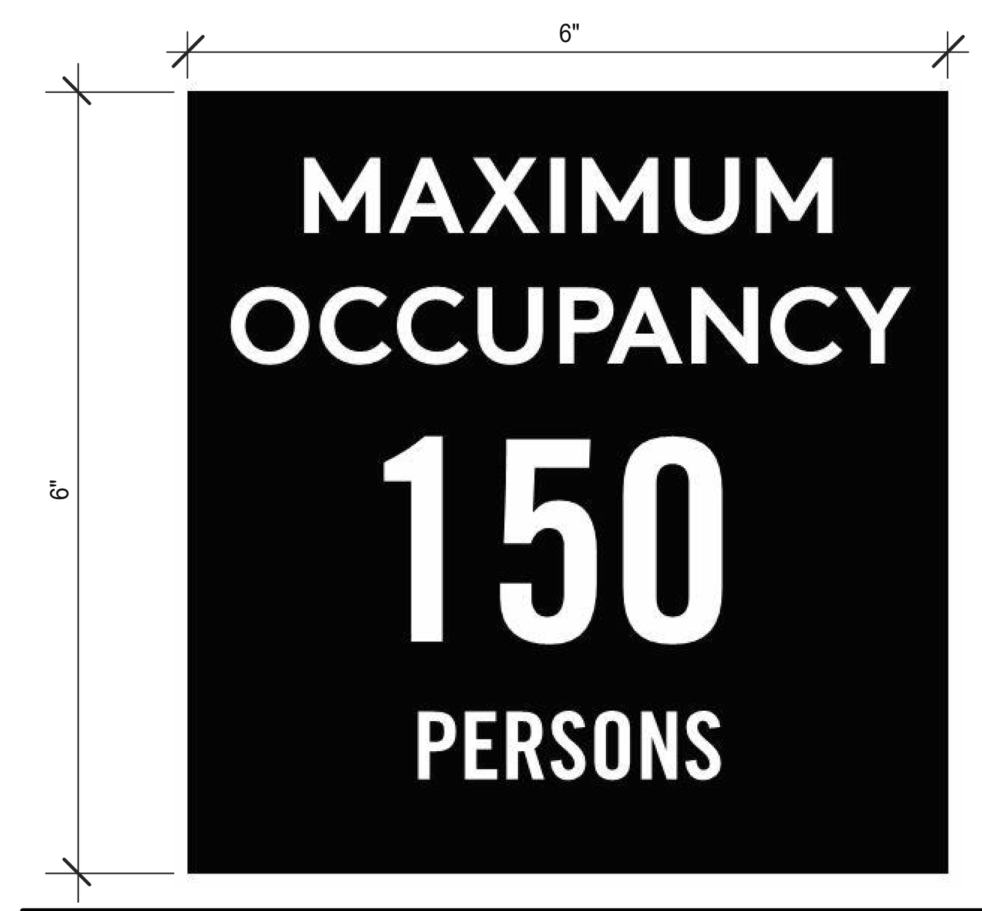


EXIT BRAILE SIGN (L204) 5

NO SMOKING SIGN (L201) 1

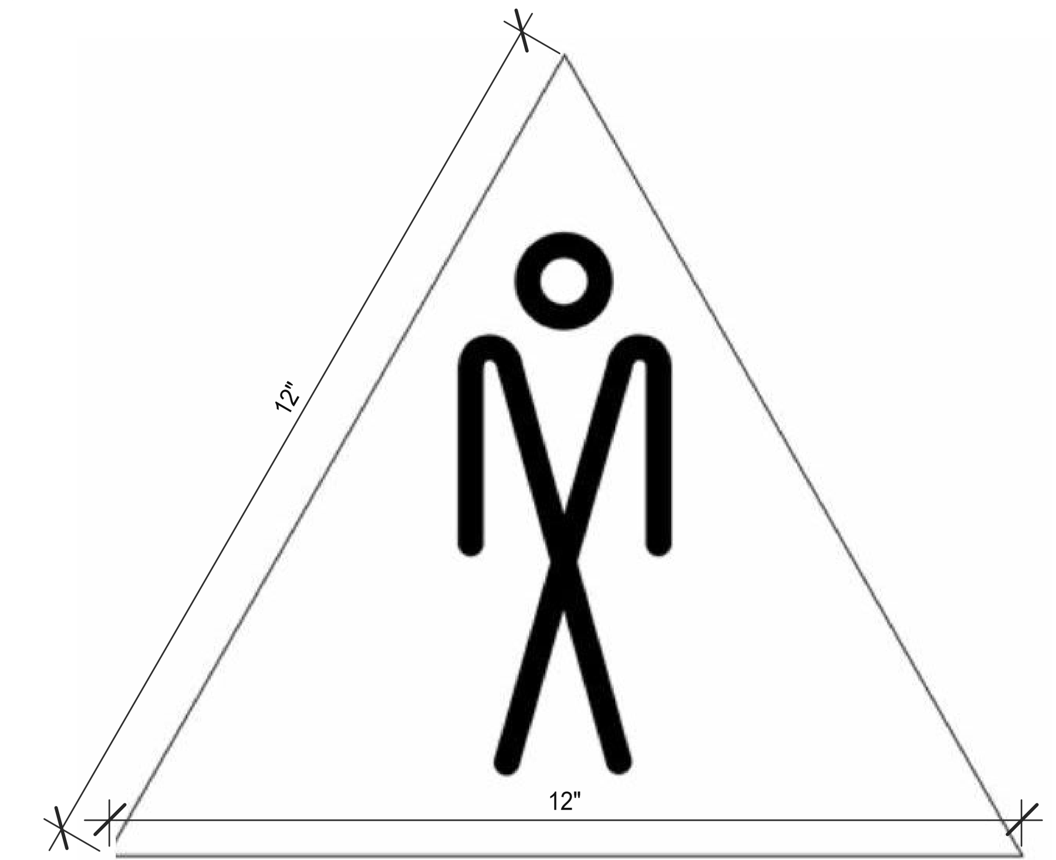
3 STREAM TRASH 2 - LABELS (L221) 14

WOMEN RESTROOM BRAILLE SIGN (L209) 10



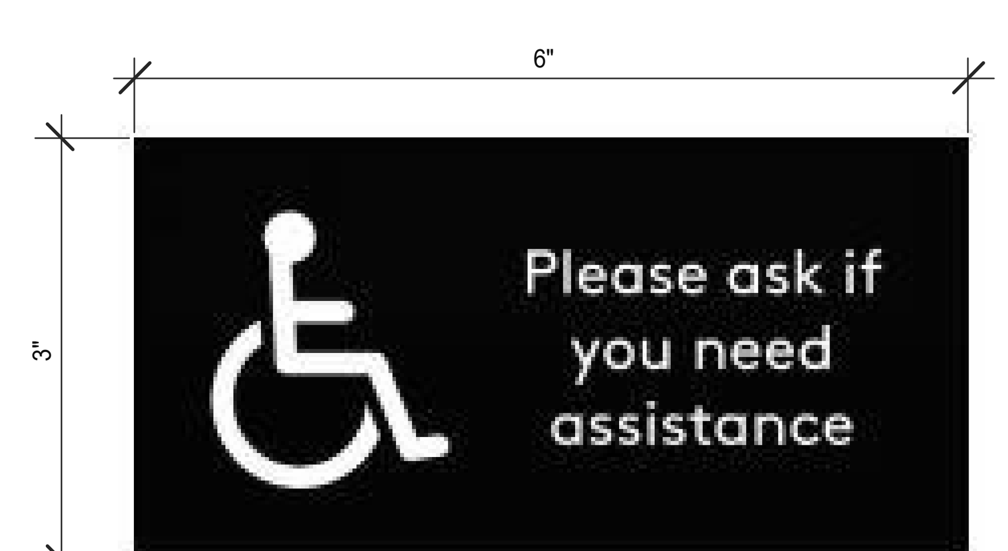
OCCUPANCY SIGN (L205) 6

GENDER NEUTRAL RESTROOM SIGNAGE (L228) 11



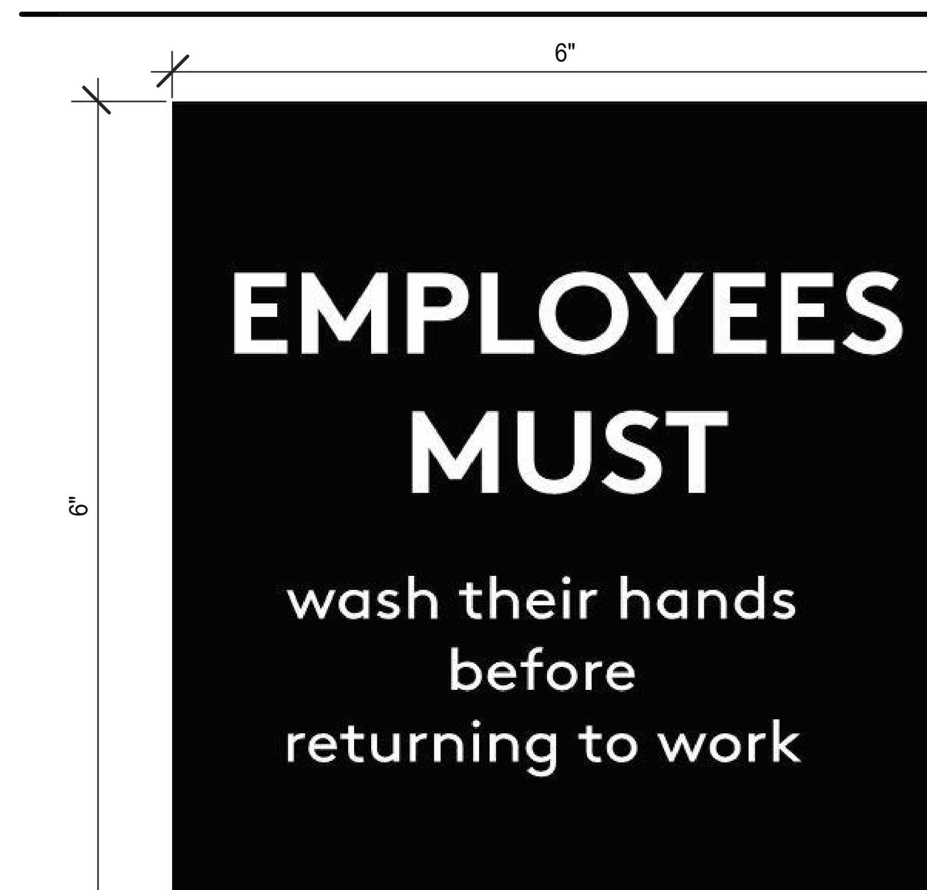
MEN RESTROOM WHITE SIGN (L206) 7

CLEAN RESTROOM SIGN (L202) 3



IF YOU NEED ASSISTANCE (L233) 12

MEN RESTROOM BRAILE SIGN (L207) 8



HAND WASH NOTICE SIGN (L203) 4

GPD Engineering and Architecture Professional Corporation - 52715

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TACO BELL

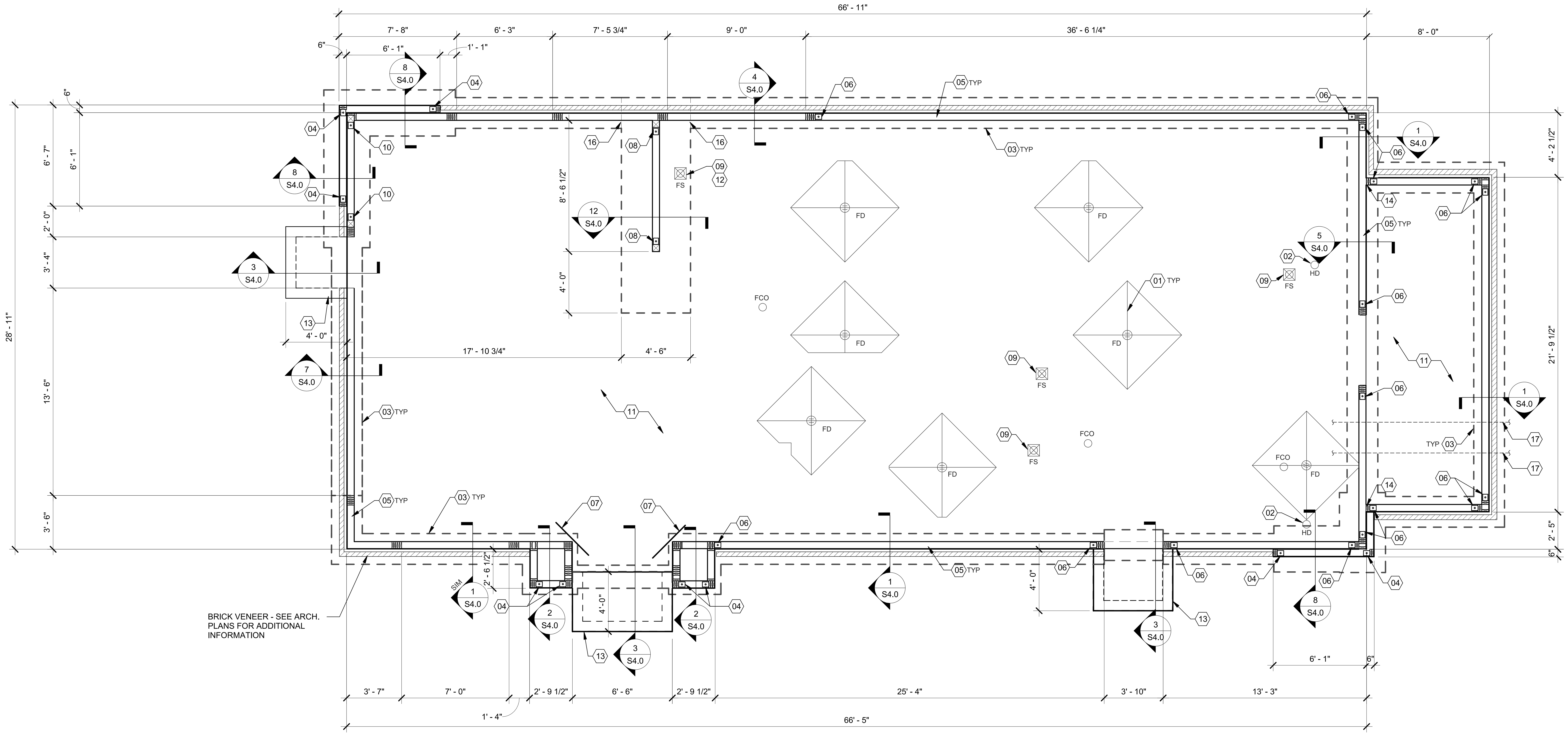
109 Tuckaseegee Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
SIGNAGE DETAILS

G4.1

PLOT DATE: 3/31/2022 1:03:39 PM

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



NOTE:
HIGH PLASTICITY SOILS WERE OBSERVED APPROXIMATELY 3'-0" BELOW EXISTING GRADE. ALL HIGH PLASTICITY SOILS WITHIN 2'-0" OF FOUNDATION BEARING LEVEL SHALL BE REMOVED AND REPLACED WITH ENGINEERING FILL/LOW PLASTICITY SOILS TO 2'-0" BELOW BUILDING FOUNDATION AND SLAB PER GEOTECH REPORT. REFER TO GEOTECH REPORT SECTIONS 4.2, 4.4, AND 4.5 FOR ADDITIONAL INFORMATION.

FOUNDATION PLAN 1/4" = 1'-0" | A

DESIGN CRITERIA:

DESIGN CRITERIA:
2018 NORTH CAROLINA BUILDING CODE (2018 NBC)

ROOF SNOW LOADS:

GROUND SNOW LOAD (Pg):	10 PSF
EXPOSURE FACTOR (Ce):	1.0
IMPORTANCE FACTOR (I):	1.0
THERMAL FACTOR (Ct):	1.0
FLAT ROOF SNOW LOAD (Pf):	10 PSF
MIN. ROOF SNOW LOAD (Pmin):	10 PSF

ROOF LOADS:

LIVE LOAD:	20 PSF
DEAD LOAD:	20 PSF

WIND LOADS:

3 SECOND GUST:	110 MPH
RISK CATEGORY:	II
EXPOSURE CATEGORY (MWFRS):	B
INTERNAL PRESSURE COEFF.:	± 0.18

SEE SHEET S4.4 FOR COMPONENT AND CLADDING PRESSURES AND DIAGRAM.

SEISMIC LOADS:

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR:	1.0
SITE CLASS:	D

MAPPED SPECTRAL RESPONSE ACCEL:

Ss:	0.200g
S1 :	0.082g

SPECTRAL RESPONSE COEFF.:

SHORT PERIODS (SDS):	0.214g
1 SEC. PERIODS (SD1)	0.131g
SEISMIC DESIGN CATEGORY:	B
WOOD SHEARWALLS	
RESPONSE MOD FACTOR (R):	6.5
DESIGN BASE SHEAR (Cs):	0.0328*W

ANALYSIS BY SIMPLIFIED PROCEDURE

DESIGN CRITERIA | E

FOUNDATION NOTES - TYP U.N.O.:

A. GEOTECHNICAL INFORMATION WAS OBTAINED FROM THE "REPORT OF GEOTECHNICAL ENGINEERING SERVICES" PREPARED BY INTERTEK PSI, DATED JULY 6, 2021. A SOILS TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PROVIDE CONSTRUCTION REVIEW, TO TEST EXISTING SOIL CONDITIONS, AND ENSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS DURING THE EXCAVATION, BACKFILL, AND FOUNDATION PHASES OF THE PROJECT. CONTACT DESIGN ENGINEER IMMEDIATELY IF SOILS ENCOUNTERED DO NOT MEET ASSUMED DESIGN SPECIFICATIONS.
B. REMOVE ELASTIC SILT (MH) AND OTHER UNSUITABLE SOILS AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER AS WELL AS ALL REMOVE ALL REMNANTS OF EXISTING CONSTRUCTION AND DEBRIS , FOR AN AREA EXTENDING AT LEAST 10 FEET BEYOND THE OUTLINE OF THE PROPOSED CONSTRUCTION, IN ACCORDANCE WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.
C. BASED ON THE PROJECT GEOTECHNICAL REPORT, THE FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF FOR COLUMN FOOTINGS AND 2000 PSF FOR WALL FOOTINGS. ON-SITE GEOTECHNICAL ENGINEER SHALL VERIFY THAT ALL BEARING SURFACES MEET OR EXCEED THE ASSUMED SOIL BEARING CAPACITY. THE FOUNDATION SHALL BEAR ON FIRM, UNDISTURBED, NATIVE SOILS OR ENGINEERED FILL AT OR EXCEEDING DEPTHS SHOWN ON THE DRAWINGS. INCREASE DEPTH AS REQUIRED BY ON-SITE GEOTECHNICAL ENGINEER. THE FOUNDATION EXCAVATION SHALL BE AS NEAT AS PRACTICAL. OVER EXCAVATION IN DEPTH AND WIDTH SHALL BE FILLED WITH LEAN CONCRETE, OR COMPACTED, APPROVED BACKFILL. ALL LOOSE SOILS SHALL BE REMOVED FROM THE EXCAVATION PRIOR TO PLACEMENT OF REINFORCING OR CONCRETE. IF POOR SOIL CONDITIONS ARE ENCOUNTERED AT THE FOUNDATION DEPTH SHOWN, NOTIFY OWNER'S REPRESENTATIVE AND ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
D. CONTRACTOR TO PROVIDE FOUNDATION & FOOTING AS REQUIRED FOR PYLON OR MONUMENTAL SIGN. SEE ELECTRICAL DRAWINGS FOR DETAIL.
E. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS. 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.
F. MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
G. 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.
H. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.
I. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

CONCRETE:
CONCRETE SHALL MEET THE FOLLOWING MIN. ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS:

LOCATION	MIN STRENGTH 28 DAY PSI	AGGREGATE SIZE - INCHES	SLUMP INCHES	TOLERANCE
SLAB ON GRADE	(4000 DESIGN)	1" x 4"	3-1/2"	±1/2"
FOUNDATIONS	(4000 DESIGN)	1" x 4"	3-1/2"	±1/2"

A. CONCRETE MIX DESIGN AND TESTING SHALL MEET WITH THESE SPECS. CEMENT SHALL BE IN ACCORDANCE WITH ASTM C 150 TYPE II. VERIFY MIN. CONC. STRENGTH AND CEMENT TYPE.
B. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.
C. CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI-318-14 SECTION 5.11 AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY COMMITTEE 308.
D. ANCHOR BOLTS - A36 OR A307. ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. SEE SCHEDULE FOR REQUIREMENTS.
E. TO RESIST FREEZE - THAW DETERIORATION W/C. RATIO SHALL NOT EXCEED .50 FOR CONCRETE IN CONTACT WITH SOILS.
F. TOTAL AIR CONTENT TO BE 6% ± 1%.

SLAB:
A. DESIGN IS BASED UPON 4" THICK CONCRETE SLAB REINFORCED WITH WWF 6x6-W2.9xW2.9 OVER 10 MIL VISQUEEN MEMBRANE, ON PREPARED SUBGRADE PER THE PROJECT GEOTECHNICAL REPORT.

MISCELLANEOUS:
A. DIMENSIONS NOTED ARE TO FACE OF CONCRETE. REFER TO DWG. A1.0 FOR DIMENSIONS TO FACE OF STUD AND OTHER DIMENSIONS NOT OTHERWISE NOTED.
B. DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
C. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
D. SEE PLUMB. DWGS. FOR PLUMB. LAYOUT DIMENSIONS, U.O.N.
E. SEE ELECT. DWGS. FOR ELECT. LAYOUT DIMENSIONS, U.O.N.
F. COORD. FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO PLACING SLAB.

FOUNDATION NOTES | D

SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS ARE TO BE PROVIDED IN ACCORDANCE WITH SECTION 1704. SPECIAL INSPECTIONS SHALL BE IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR THEIR AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE BUILDING CODE. SPECIAL INSPECTION SHALL BE PAID BY THE OWNER.

REQUIRED SPECIAL INSPECTIONS:

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE.

A. SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION (COMPACTING FILL, SPECIAL GRADING)
B. STRUCTURAL CONCRETE OVER 2,500 PSI

SPECIAL INSPECTOR SHALL MEET THE QUALIFICATIONS AS STATED IN THE BUILDING CODE AND SHALL PERFORM THE DUTIES AND RESPONSIBILITIES AS OUTLINED IN THE BUILDING CODE. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE CODE OFFICIAL, ENGINEER AND OWNER.

SPECIAL INSPECTIONS | C

01 SLAB SHALL BE PITCHED 1/2" FOR 5'-0" x 5'-0" SQUARE AT ALL FLOOR DRAINS U.O.N. REFER TO PLUMBING DRAWINGS FOR LOCATIONS.

02 PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS).

03 INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0.

04 HTT5 HOLDOWN ANCHOR. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.

05 ANCHOR BOLTS LOCATED THROUGHOUT PERIMETER OF BUILDING SHALL BE PROVIDED AS REQUIRED PER THE "PLATE/ANCHOR BOLT" COLUMN OF THE "WALL SHEATHING AND SHEARWALL SCHEDULE." SEE D/S2.0.

06 HDU5 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.

07 (2) #4x3'-0" LG. RE-ENTRANT BARS (CENTERED IN SLAB) AT ALL RE-ENTRANT CORNERS.

08 HD12 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.

09 FLOOR SINK REFER TO PLUMBING DRAWINGS FOR LOCATION.

10 HD9B HOLDOWN ANCHOR AT EACH END OF FRONT SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL. ENTRANT CORNERS.

11 4" CONCRETE SLAB - SEE FOUNDATION PLAN NOTES D/S1.0. MODIFY BASE MATERIAL AS REQUIRED BY ON-SITE SOILS TESING AGENCY. PROVIDE BOND BREAKER BETWEEN SLAB AND BUILDING FOUNDATIONS.

12 FORM FOOTING TO ACCOMMODATE FLOOR SINK AND DRAIN LINE INSTALLATION.

13 FROST SLAB - SEE CIVIL PLANS FOR TOP OF CONCRETE ELEVATION.

14 SHEAR WALL SHEATHING SHALL BE CONTINUOUS AT COOLER WALL INTERSECTION.

15 UNDERGROUND PIPE, SEE CIVIL AND PLUMBING DWGS.

16 BOTTOM OF FOOTING STEPS DOWN, SEE SECTION 12/S4.0

17 APPROXIMATE LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR TO COORDINATE WITH CIVIL PLANS AND VERIFY LOCATION AND INVERT ELEVATION OF UTILITIES. REFER TO DETAIL 10/S4.0 FOR TYPICAL PIPE AT FOUNDATION DETAIL.

FOUNDATION KEYNOTES | B

GPD Engineering and Architecture Professional Corporation - C3879

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	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
	04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RB
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
FOUNDATION PLAN

S1.0

PLOT DATE: 3/31/2022 12:07:28 PM

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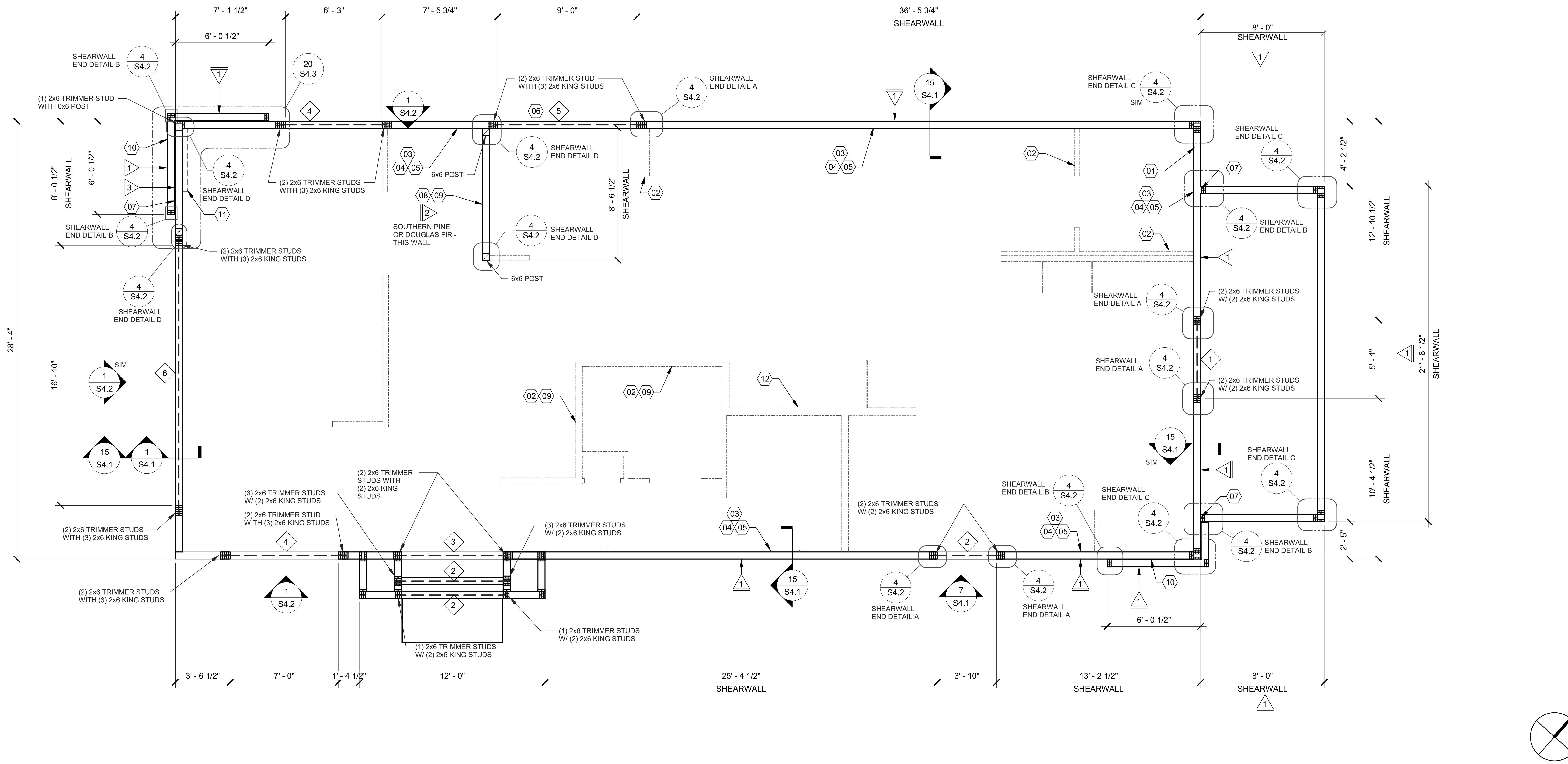

WALL FRAMING PLAN 1/4" = 1'-0" **A**

HEADER SCHEDULE		
MARK	BUILT-UP SECTION	BUILT-UP MANUF. MEMBER
1	(3) 2x8	--
2	(3) 2x10	--
3	(3) 2x12	--
4	--	5 1/4" x 9 1/4" PSL
5	--	5 1/4" x 11 1/4" PSL
6	--	5 1/4" x 14" PSL

NOTES:
1. BUILT-UP HEADER SECTION SHALL HAVE 1/2" PLYWOOD SANDWICHED PIECES. REF. 14/S4.1

2. PSL BEAMS TO HAVE FOLLOWING MIN. PROPERTIES:
   Fb = 2900 PSI
   Fc = 750 PSI
   Fv = 290 PSI
   E = 2000 KSI

HEADER SCHEDULE **E**

WALL SHEATHING AND SHEARWALL SCHEDULE					
SW	SHEATHING	EDGE	FIELD	PLATE / ANCHOR BOLT	REMARKS
1	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 6" O.C.	10d @ 12" O.C.	5/8" DIA. F1554 (22x3) @ 32" O.C. W/ WASHER	PLYWOOD ON EXTERIOR FACE OF STUDS
2	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 4" O.C.	10d @ 12" O.C.	5/8" DIA. F1554 (18x3) @ 16" O.C. W/ WASHER	PLYWOOD ON BOTH SIDES OF STUDS
3	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 4" O.C.	10d @ 12" O.C.	5/8" DIA. F1554, (22x3) @ 8" O.C. W/ WASHER	PLYWOOD ON EXTERIOR FACE OF WALL
***	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 6" O.C.	10d @ 12" O.C.	5/8" DIA. F1554, (22x3) @ 48" O.C. W/ WASHER	NAILING AT HEADERS PER 14/S4.1

*** REQUIREMENTS FOR EXTERIOR NON-SHEARWALL WALLS

1. OSB OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION.
2. BLOCK ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.O.N. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS.ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.O.N. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS.
3. ALL PLYWOOD NAILS SHALL BE COMMON WIRE. SEE SPECIFICATIONS FOR OTHER NAIL REQUIREMENTS.
4. EXTERIOR WALLS NOT DESIGNATED AS SHEARWALLS IN THE WALL FRAMING PLAN SHALL MEET REQUIREMENTS INDICATED FOR NON-SHEARWALL WALLS IN THE SCHEDULE ABOVE.
5. SHEARWALL LENGTHS WHERE NOTED ARE MINIMUM. DO NOT LOCATE HOLDOWNS FROM THESE DIMENSIONS. SEE ARCH DWGS FOR ACTUAL WALL LENGTHS.
6. HD REFERS TO SIMPSON STRONGTIE CO. HOLDOWNS. INSTALL PER 6/S4.0. POST WIDTH SHALL MATCH STUD WALL WIDTH. SEE FOUNDATION PLAN FOR OTHER REQ'S.
7. EDGE NAIL WALL PLY TO STUDS OR POSTS WITH HOLDOWNS.
8. WHERE PANELS ARE APPLIED TO BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO WALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3x OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.

WALL SHEATHING AND SHEARWALL SCHEDULE **D**

WALL FRAMING NOTES - TYP U.N.O.:

WALL FRAMING:
A. EXTERIOR WALL NON-BEARING & BEARING STUDS SHALL BE SOUTHERN PINE NO. 2. 6x6 POSTS TO BE SOUTHERN PINE NO. 2. INTERIOR WALL STUDS MAY BE STUD GRADE.
B. ALL BEAMS AND JOISTS SHALL BE SEAT CUT FOR FULL UNIFORM BEARING AT SUPPORTS, BEAM SEATS AND COLUMN CAPS.
C. SEE SHEET A1.0 FOR DIMENSIONS.
D. EXTERIOR STUD WALLS ARE 2x6 AT 16" O.C. U.O.N.
E. ALL WOOD IN CONTACT WITH CONC., STEEL OR GRADE SHALL BE PRESSURE TREATED.
F. ALL BOLTED OR NAILED STRAP CONNECTIONS SHALL HAVE AN EQUAL NUMBER OF BOLTS OR NAILS EACH SIDE OF THE SPLICE JOINT. THE FIRST BOLT OR NAIL FROM EACH SIDE OF THE SPLICED OR TREATED MEMBER SHALL BE EQUAL DISTANCE FROM THE SPLICE. STRAPS USING 16d NAILS ON 2x MATERIAL SHALL BE INSTALLED ON THE 1-1/2" EDGE OF THE MEMBER.
G. THE CONTRACTOR SHALL VERIFY THAT THE MOISTURE CONTENT OF ALL FRAMING LUMBER AND PLYWOOD MEET THE REQUIREMENTS OF THE SPECS. AT THE TIME OF INSTALLATION AND AT CLOSE-IN.
H. USE PRESSURE TREATED LUMBER AT WINDOW JAMBS, SILL AND STUDS UNDER SILL AS WELL AS ALL TOILET PLUMBING WALLS.

STUD LAYOUT:
A. LAYOUT STUDS ON SIDEWALLS (LONG WALLS) STARTING AT REAR OF BUILDING TOWARDS FRONT.
B. LAYOUT STUDS ON ENDWALLS (SHORT WALLS) STARTING AT EACH END AND WORKING TOWARDS CENTER.

WALL FRAMING NOTES **C**

01 COORDINATE WITH ELECTRICAL POWER PLAN SHEET E3.0.
02 INTERIOR NON-BEARING STUD WALL FRAMING; REFER TO SHEET A1.0 FOR DIMENSIONS AND STUD SIZES. SEE DETAIL 10 & 11/S4.1 AND WALL FRAMING NOTES.
03 (2) 2x6 TOP PLATES AT TRUSS BEARING - SPLICE PER 16/S4.1. U.O.N. REF. 1/S4.3 FOR PARAPET CAP DETAIL.
04 TOP OF TRUSS BEARING PLATE. SEE DETAIL 2/S4.1.
05 TOP OF PARAPET. SEE S3.0.
06 ENSURE ROUGH OPENING DIMENSION TO PROVIDE TOLERANCE FOR DRIVE THRU WINDOW INSTALLATION. COORDINATE WITH WINDOW MANUFACTURER.
07 EXTERIOR SHEATHING SHALL NOT BE INTERRUPTED WITH ADJACENT FRAMING - TYPICAL.
08 INTERIOR SHEAR WALL. FRAMING FOR 2x6 STUDS, BLOCKING, & SILL PLATE SHALL BE SOUTHERN PINE OR DOUGLAS FIR AT THIS WALL. PROVIDE 6x6 POST AT EACH END OF WALL.
09 COORDINATE WITH PLUMBING ROUGH IN SHEET P4.0.
10 2x FRAMING ON THICKENED CONCRETE FOUNDATION / PIER; SEE SHEETS S1.0 AND S4.0. DIMENSIONS FOR FRAMING ARE TO FACE OF STUD.
11 2x4 FRAMING FOR ALCOVE. SEE ARCHITECTURAL.
12 COLD-FORMED STUD WALL (NON-LOAD BEARING STUD WALL). SEE ARCH.

WALL FRAMING KEYNOTES **B**

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PA/PM: JN
DRAWN BY.: RB
JOB NO.: 2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
WALL FRAMING PLAN

S2.0

PLOT DATE: 3/31/2022 12:07:29 PM

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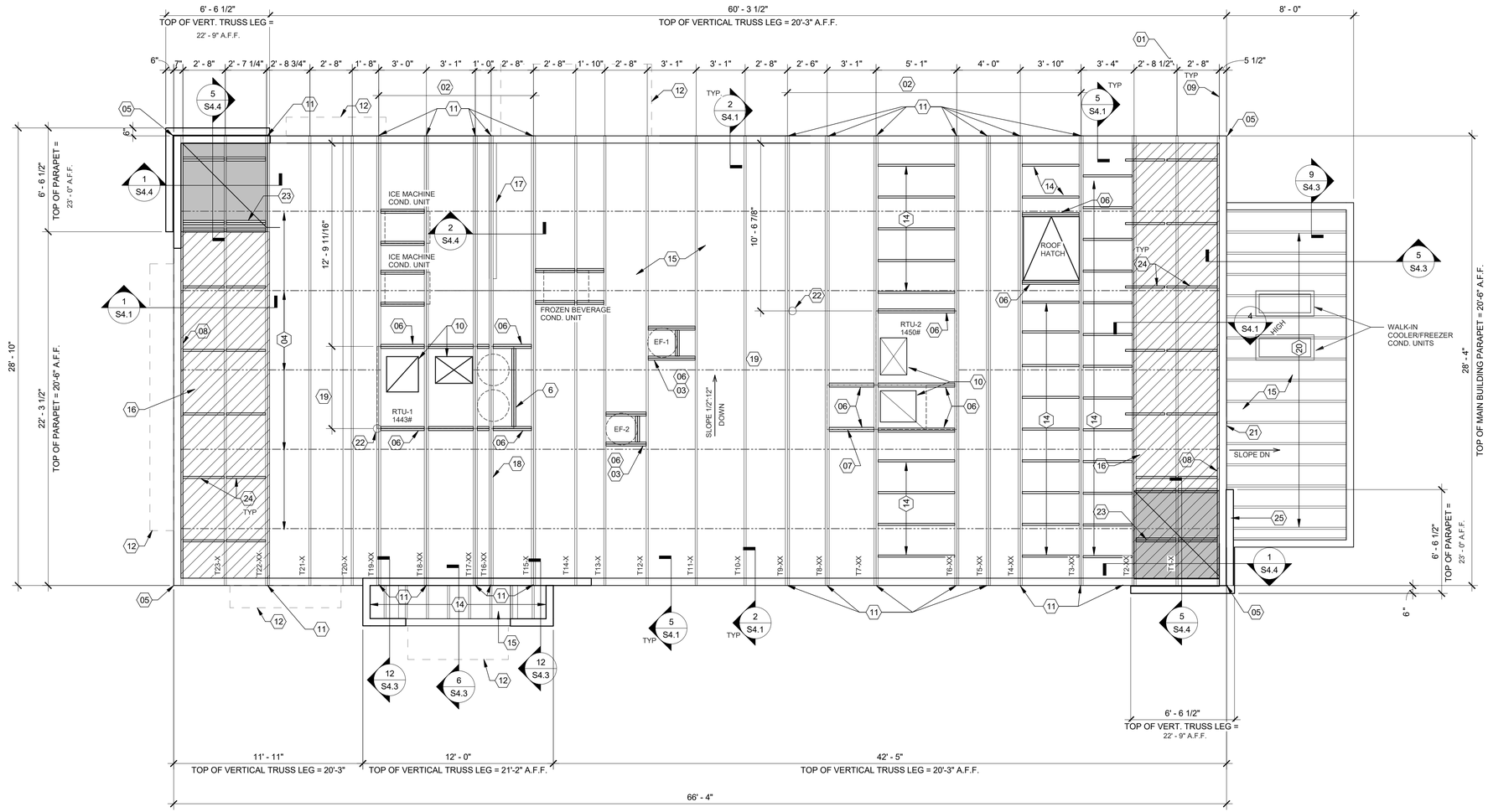

EXTREME CARE SHALL BE USED IN ERECTING ROOF TRUSSES - COMPLY WITH TPI BRACING REQUIREMENTS.

ROOF NOT DESIGNED FOR PONDING. SEE ARCHITECTURAL DRAWINGS FOR DRAIN REQUIREMENTS.

ROOF FRAMING PLAN 1/4" = 1'-0" A

ROOF NAILING SCHEDULE		
TYPE	**NAILING / SHEATHING**	**REMARKS**
BN	10d @ 6" O.C.	
EN	10d @ 6" O.C.	
FN	10d @ 12" O.C.	
ROOF SHEATHING	23/32" CDX PLYWOOD (48/24), PS1 RATING	

NOTES:
SEE 8/S4.2 FOR DEFINITIONS AND ROOF NAILING PLAN.
SEE 11/S4.2 FOR TYPICAL NAILING SCHEDULE.

ROOF NAILING SCHEDULE D

ROOF FRAMING NOTES:

A. ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING SHALL BE SUPPORTED WITH SIMPSON PSCL CLIPS. PROVIDE (2) CLIPS EQUALLY SPACED BETWEEN EACH TRUSS/SUPPORT. SEE DETAIL 9/S4.2. OSB OF COMPARABLE THICKNESS MAY BE USED IN LIEU OF PLYWOOD WHEN APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE LOCAL JURISDICTION.
B. ALL MECHANICAL SUPPLY AND RETURN OPENINGS SHALL BE BETWEEN FRAMING U.O.N.

MANUFACTURED ROOF TRUSS NOTES:

A. MFR'D ROOF TRUSSES ARE AT 2'-8" O.C. U.O.N.
B. "T-#" DENOTES ROOF TRUSS TYPE. REFER TO SCHEDULE 7/S4.2.
C. TRUSS DWGS ARE PROVIDED FOR CONCEPTUAL DESIGN ONLY. MFR. SHALL SUBMIT SHOP DWGS. AND CALCS, BOTH SIGNED BY A LICENSED STRUCTURAL ENGINEER (STATE OF NORTH CAROLINA). SUBMIT SHOP DWGS. AND CALCS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND SUBMITTAL AND, IF REQUIRED, TO BLDG OFFICIAL FOR APPROVAL PRIOR TO FABRICATION. SHOP DWGS SHALL INCLUDE LAYOUT PLAN AND CONNECTORS. CALCS SHALL BE BASED ON THE SPECIFIED LOADING CONDITIONS SHOWN HEREIN. MFR SHALL PROVIDE HANGERS AND CONNECTIONS BETWEEN TRUSSES. REVIEW AND APPROVE DIMENSIONS, SHAPES AND DETAILS SHOWN ON SHOP DWGS. PRIOR TO SUBMITTAL TO THE ARCHITECT / ENGINEER FOR REVIEW AND COMMENT.
D. TRUSS MFR SHALL PROVIDE HANGERS AND CONNECTORS ADEQUATE FOR LOADS. ROOF CONNECTORS ARE BASED UPON SIMPSON "STRONG TIE" OR APPROVED EQUAL.
E. TRUSS CHORDS AND PARAPET VERTICALS SHALL BE 2x6 MIN AND CONSISTENTLY SIZED THROUGHOUT PROJECT.
F. REFER TO TRUSS ELEVATIONS FOR SHAPE, OVERHANG, SLOPES, SPAN, ETC. LOCATION OF BEARING POINTS ARE AS INDICATED ON THE DRAWINGS. SEE 2/S4.2.
G. MFR'D ROOF TRUSS DESIGN LOADS: SEE TRUSS DESIGN CRITERIA 3/S4.2.
H. THE POSITIONS, WEIGHTS, AND METHODS OF ATTACHMENT OF ALL MECHANICAL UNITS, ELECT FIXTURES, PLUMBING, ETC. SHALL BE INCLUDED IN THE DESIGN OF THE TRUSSES BY THE TRUSS MFR.
I. DESIGN ROOF TRUSSES TO SUPPORT ALL IMPOSED LOADS, INCLUDING WIND & LATERAL LOADS. COORDINATE SIZE, LOCATION AND WEIGHT OF EQUIPMENT WITH MECHANICAL WORK. PROVIDE MULTIPLE TRUSSES WHERE ONE TRUSS CANNOT SUPPORT THE LOAD. PROVIDE BRIDGING BETWEEN TRUSSES AS SPECIFIED AS MINIMUM STANDARD.
J. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK. CARE SHALL BE USED IN LIFTING TO PREVENT HORIZONTAL BENDING.
K. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE SPECS SHALL MEAN REMOVAL OF THE TRUSSES FROM THE JOBSITE AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
L. SEE DIV. 6 OF THE SPECS FOR DETAILS ON TRUSS MANUFACTURING AND NAILING.

DELEGATED DESIGN NOTE:
ALL DEFERRED SUBMITTALS SHALL CONTAIN SHOP DRAWING PLANS AND DESIGN CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED (OTHER THAN THE ENGINEER OF RECORD) IN THE STATE OF GEORGIA. THE DEFERRED SUBMITTALS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW OF GENERAL CONFORMANCE WITH THE BUILDING DESIGN PRIOR TO CONSTRUCTION, FABRICATION, AND/OR ORDERING OF MATERIALS. ENGINEER OF RECORD APPROVED DEFERRED SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE LOCAL BUILDING OFFICIALS PRIOR TO INSTALLATION. THE FOLLOWING ITEMS SHALL BE SUBMITTED PER THIS SECTION (REFER TO PLANS FOR ADDITIONAL INFORMATION):

- MANUFACTURED WOOD ROOF TRUSSES
- SHORING
- CANOPIES & AWNINGS

ROOF FRAMING NOTES C

01 STARTING POINT OF TRUSS LAYOUT.
02 VERIFY NECESSITY OF DOUBLE TRUSSES WITH TRUSS MFR. DUE TO POINT LOADING AND ADDITIONAL UNIFORM LOADING, TYPICAL.
03 COORDINATE BLOCKING WITH EXHAUST AND SUPPLY DUCT.
04 CONT 2x4 WD BRIDGING ON TOP OF BOTTOM CHORD. ADJUST AS REQUIRED FOR DUCT PLENUMS, MAX SPACING AT 7'-0" O.C. OR TIGHTER SPACING AS REQUIRED BY TRUSS DESIGN. SEE 8 & 9/S4.1 FOR BRIDGING LAP DETAIL.
05 SIMPSON MSTA 24 AT CORNER DBL TOP PLATE. CENTER STRAP ON CORNER.
06 (2) 2x6 BLOCKING W/ U26-2 HANGERS. TYP. AT EDGES OF ALL ROOF TOP EQUIPMENT AND ALL ROOF OPENINGS - SEE DET. 6 & 10/S4.2.
07 LOC. OF HOOD. SEE HOOD DRAWINGS FOR HOOD ATTACHMENT DETAIL 13/S4.1.
08 (2) 2x6 LEDGER REF. 6/S4.1.
09 DIMENSION IS FROM INSIDE FACE OF WALL FRAMING.
10 HVAC ROOF OPENING FOR DUCT. VERIFY SIZE WITH HVAC MFR. & MECHANICAL DWGS.
11 (2) 2x6 BUILT-UP COLUMN AT TRUSS BEARING, TYP. AT GIRDER. TRUSS ONLY. REF. DETAIL 12/S4.2.
12 CANOPY AND CANOPY ANCHORAGE TO BUILDING PER CANOPY SUPPLIER/DESIGNER. REFER TO DELEGATED DESIGN NOTES IN ROOF FRAMING NOTES AND ARCH. DWGS. FOR ADDITIONAL INFORMATION.
13 PROVIDE KICKERS
14 2x6 @ 24" O.C. WITH SIMPSON LUS26 HANGER EA. END.
15 PLYWOOD ROOF SHEATHING. SEE NAILING SCHEDULE, THIS SHEET.
16 HATCH DENOTES LOCATION OF KICKERS. SEE 1/S4.4 FOR ADDITIONAL INFORMATION REGARDING KICKERS.
17 INTERIOR SHEAR WALL BELOW. ALIGN DINING SIDE OF WALL WITH SIDE OF TRUSS. SEE DTL. 2/S4.4.
18 DRAG TRUSS AT INTERIOR SHEAR WALL. PROVIDE DOUBLE TRUSS. DESIGN DRAG TRUSS FOR 375PLF (ASD, 0.6"W) ALONG TOP CHORD OF TRUSS (11,000 LBS TOTAL). ATTACH ROOF SHEATHING TO DRAG TRUSS WITH 10d NAILS @ 6" O.C. ALONG ENTIRE LENGTH OF TRUSS.
19 SEE MECHANICAL DRAWINGS FOR SIZE OF SELECTED RTU OPTION.
20 2x10 @ 16" O.C. WITH SIMPSON LUS26 HANGER EA. END. PROVIDE CONT. BLOCKING BETWEEN 2x's AT MIDSPAN.
21 PORTION OF PARAPET IS ABOVE ROOF OF WALK-IN COOLER. SEE ELEVATION FOR DETAILS.
22 RTU LOCATION POINT.
23 (2) 2x6 BLOCKING W/ U26-2 HANGERS EACH END AT 24" O.C. BELOW KICKERS AT HIGH PARAPET.
24 2x BLOCKING AT BRACES. SEE 1 & 4/S4.1
25 TOWER WALL FURRING TO BEAR ON LOWER ROOF FRAMING. PROVIDE (2) 2x6 SOLID BLOCKING BELOW TOWER WALL FURRING. ATTACH BLOCKING TO ROOF JOIST USING SIMPSON U26-2 HANGERS, TYP.

ROOF FRAMING KEYNOTES B

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520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
	04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RB
JOB NO.:	2020088.07

TACO BELL

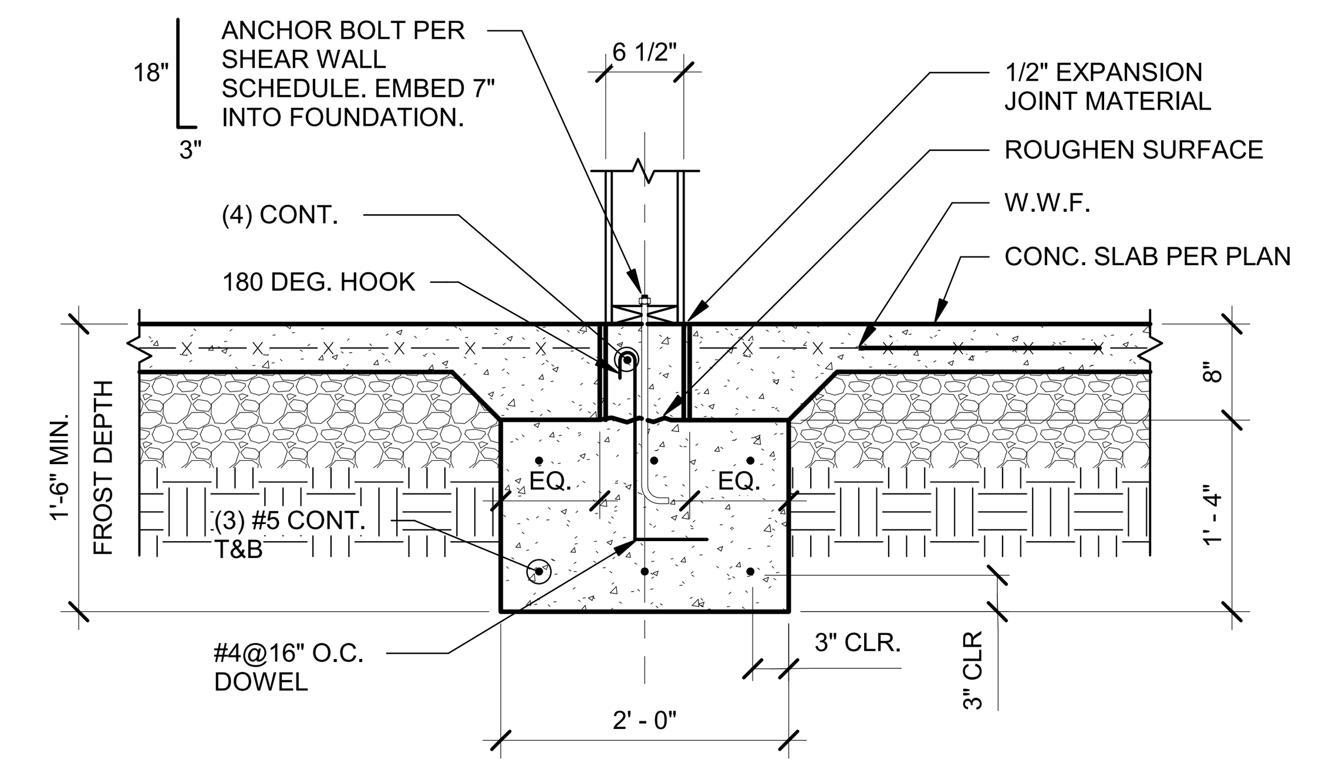
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
ROOF FRAMING PLAN

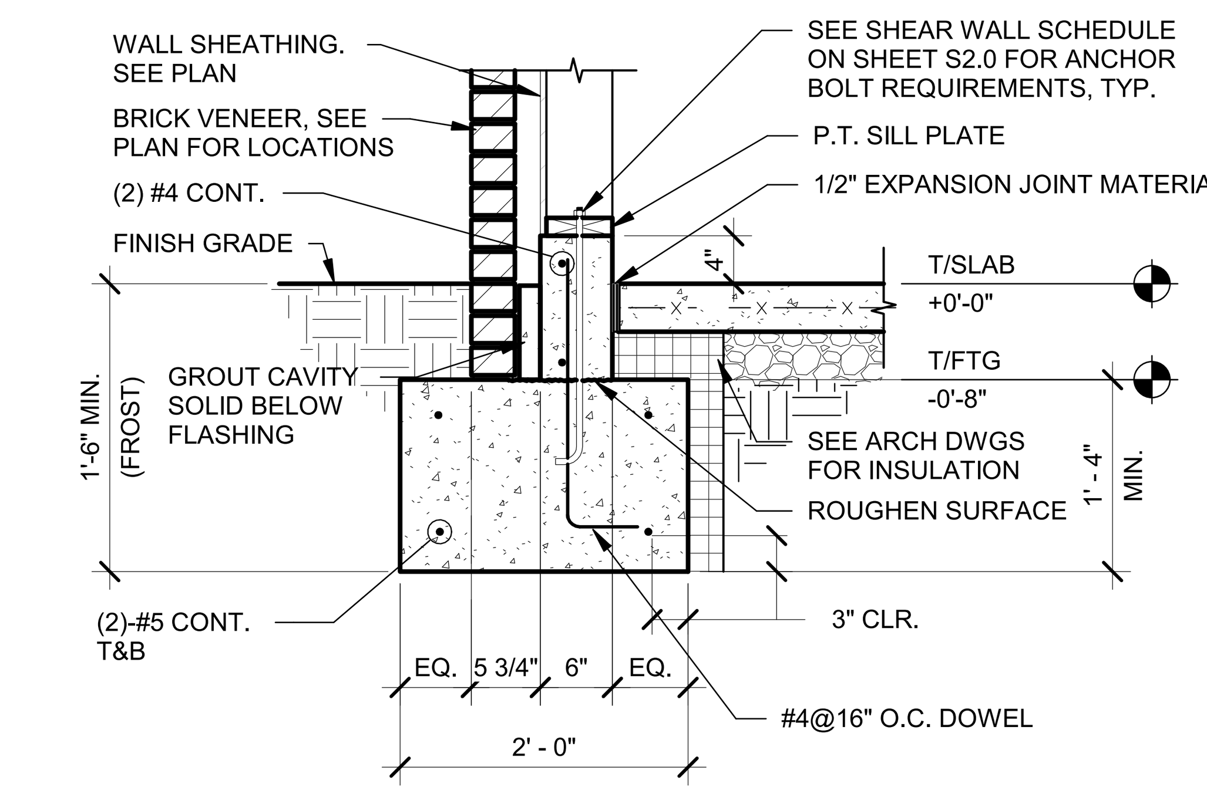
S3.0

PLOT DATE: 3/31/2022 12:07:30 PM

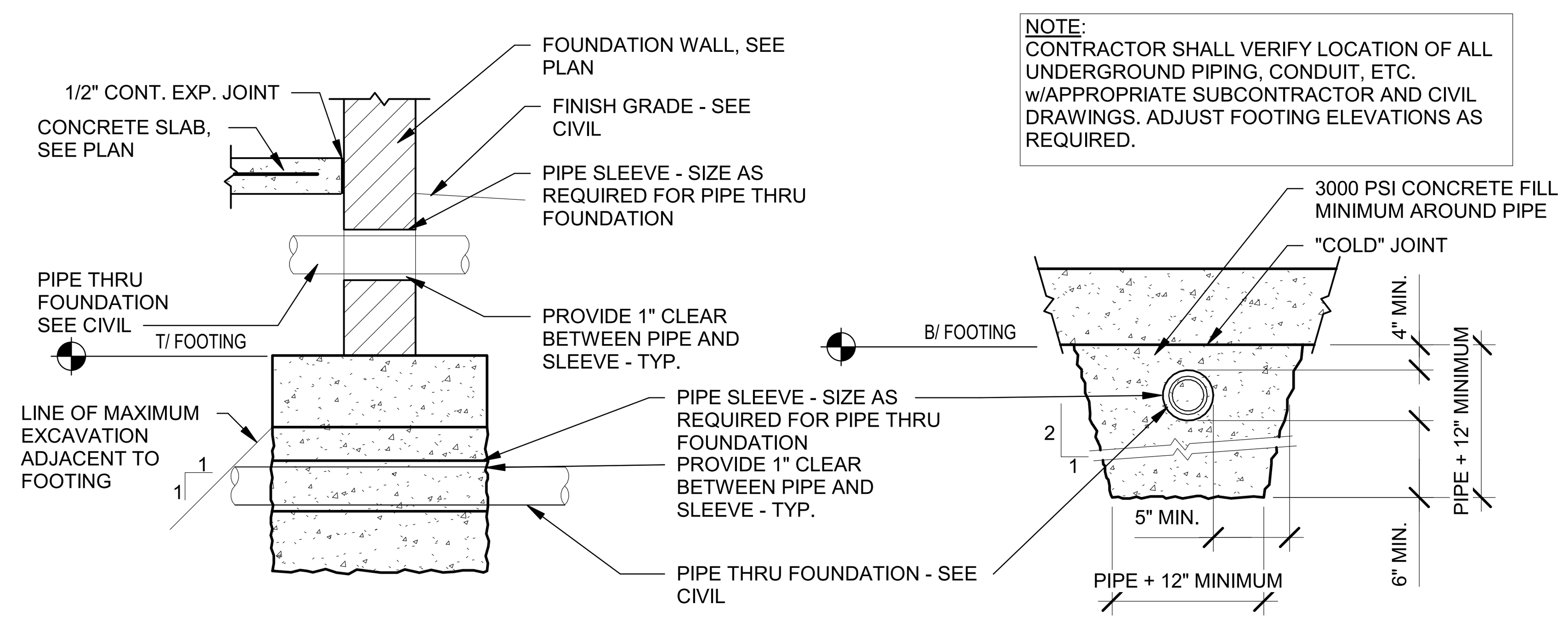
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



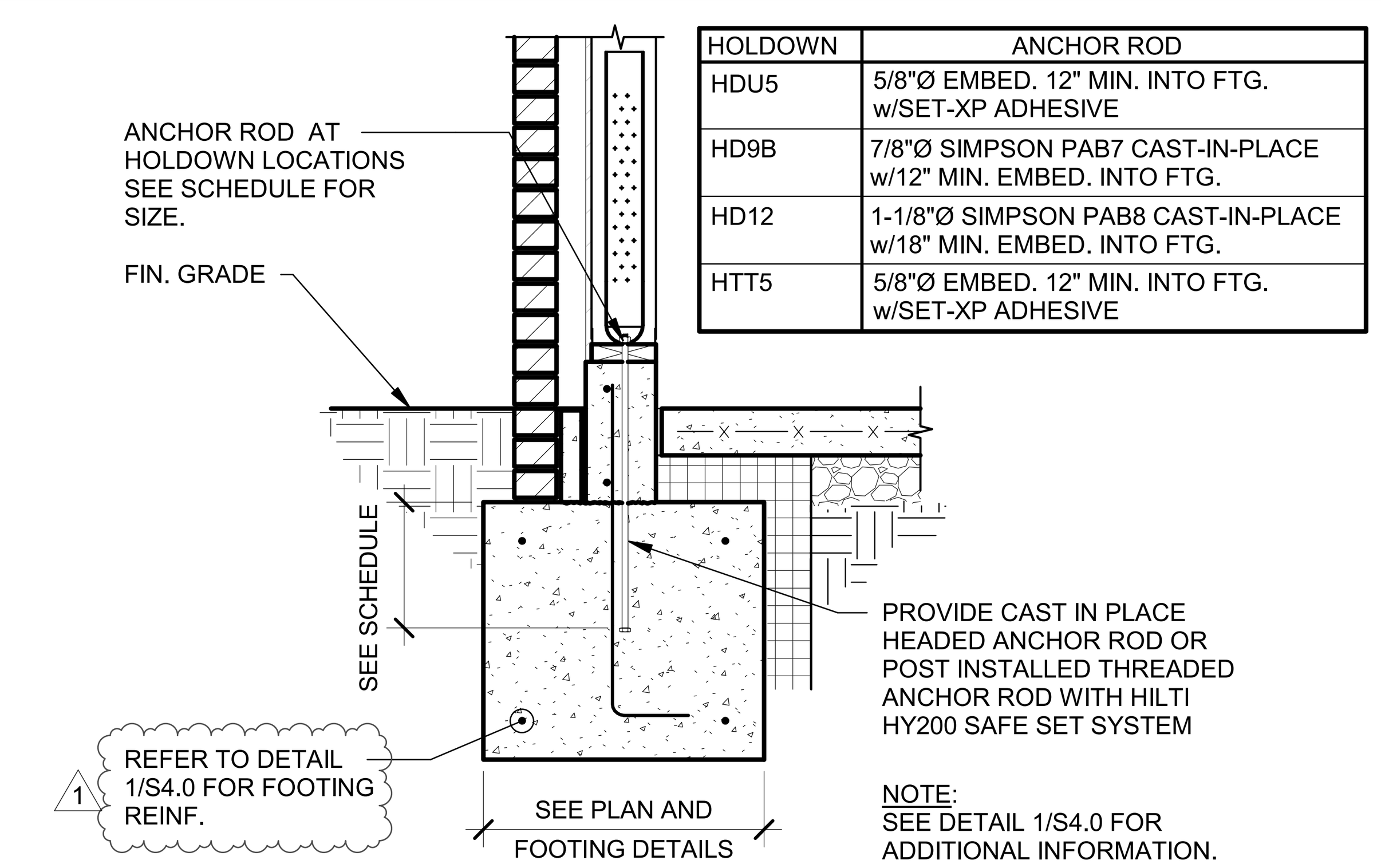
INTERIOR FOOTING AT COOLER 3/4" = 1'-0" 5



FOOTING AT SIDE AND REAR WALLS 3/4" = 1'-0" 1

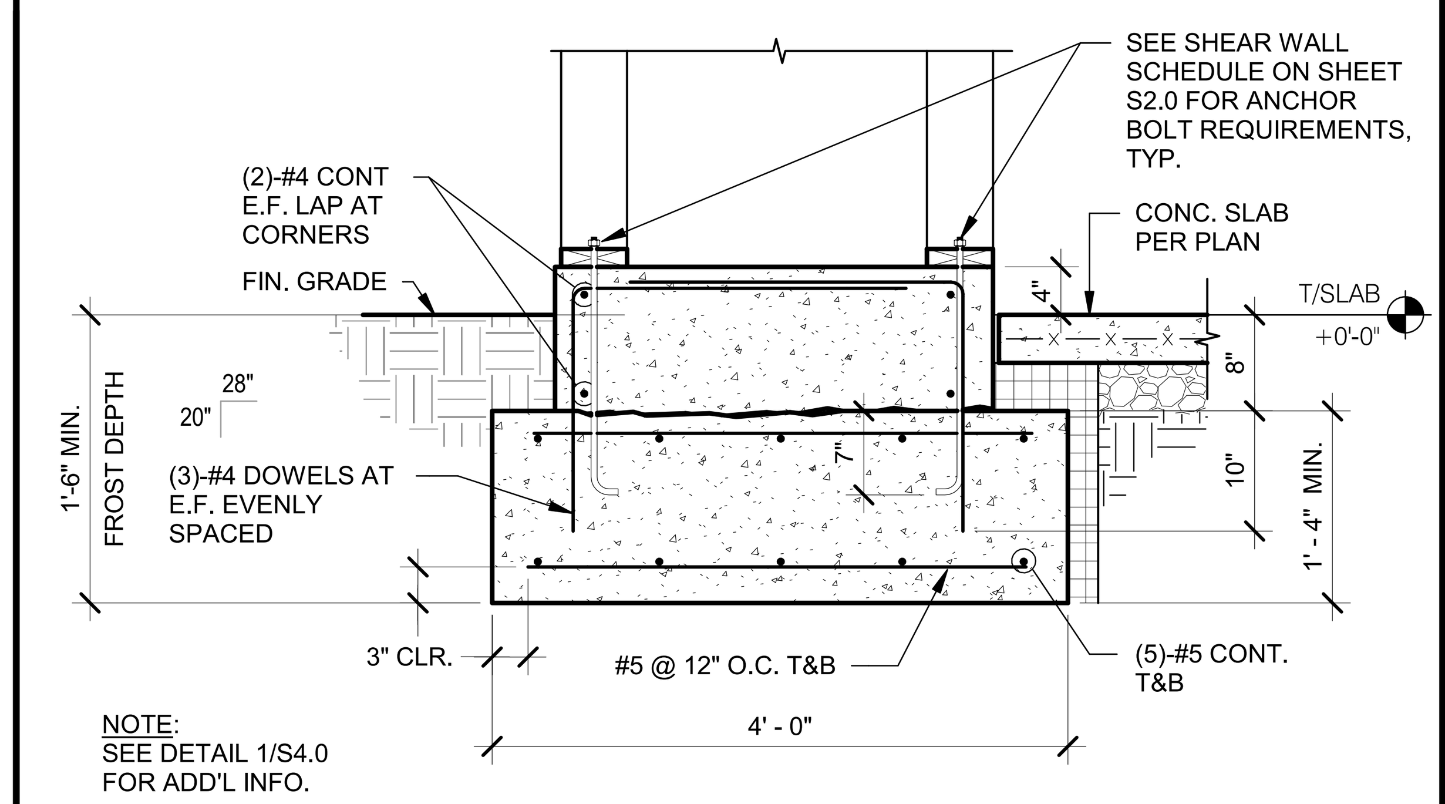


TYP. PIPE AT FOUNDATION / WALL DETAIL 1/2" = 1'-0" 10

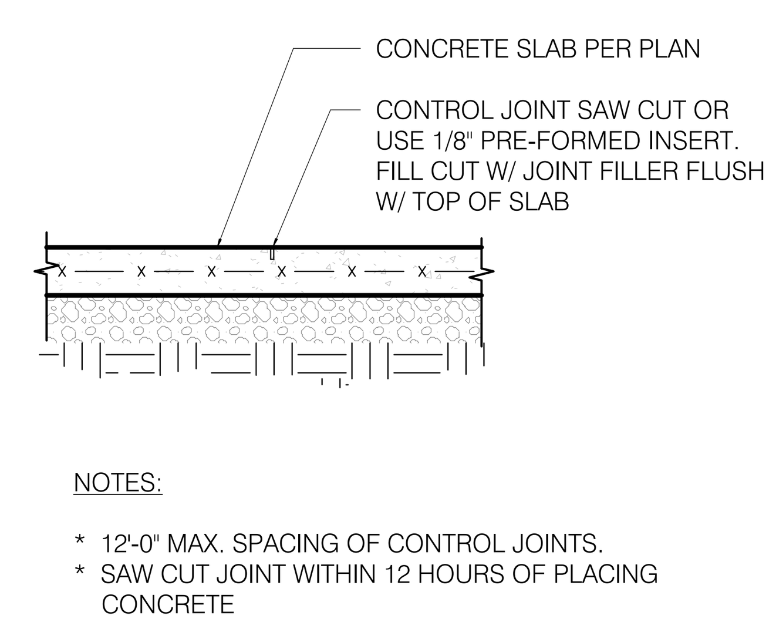


HOLDOWN	ANCHOR ROD
HDU5	5/8"Ø EMBED. 12" MIN. INTO FTG. w/SET-XP ADHESIVE
HD9B	7/8"Ø SIMPSON PAB7 CAST-IN-PLACE w/12" MIN. EMBED. INTO FTG.
HD12	1-1/8"Ø SIMPSON PAB8 CAST-IN-PLACE w/18" MIN. EMBED. INTO FTG.
HTT5	5/8"Ø EMBED. 12" MIN. INTO FTG. w/SET-XP ADHESIVE

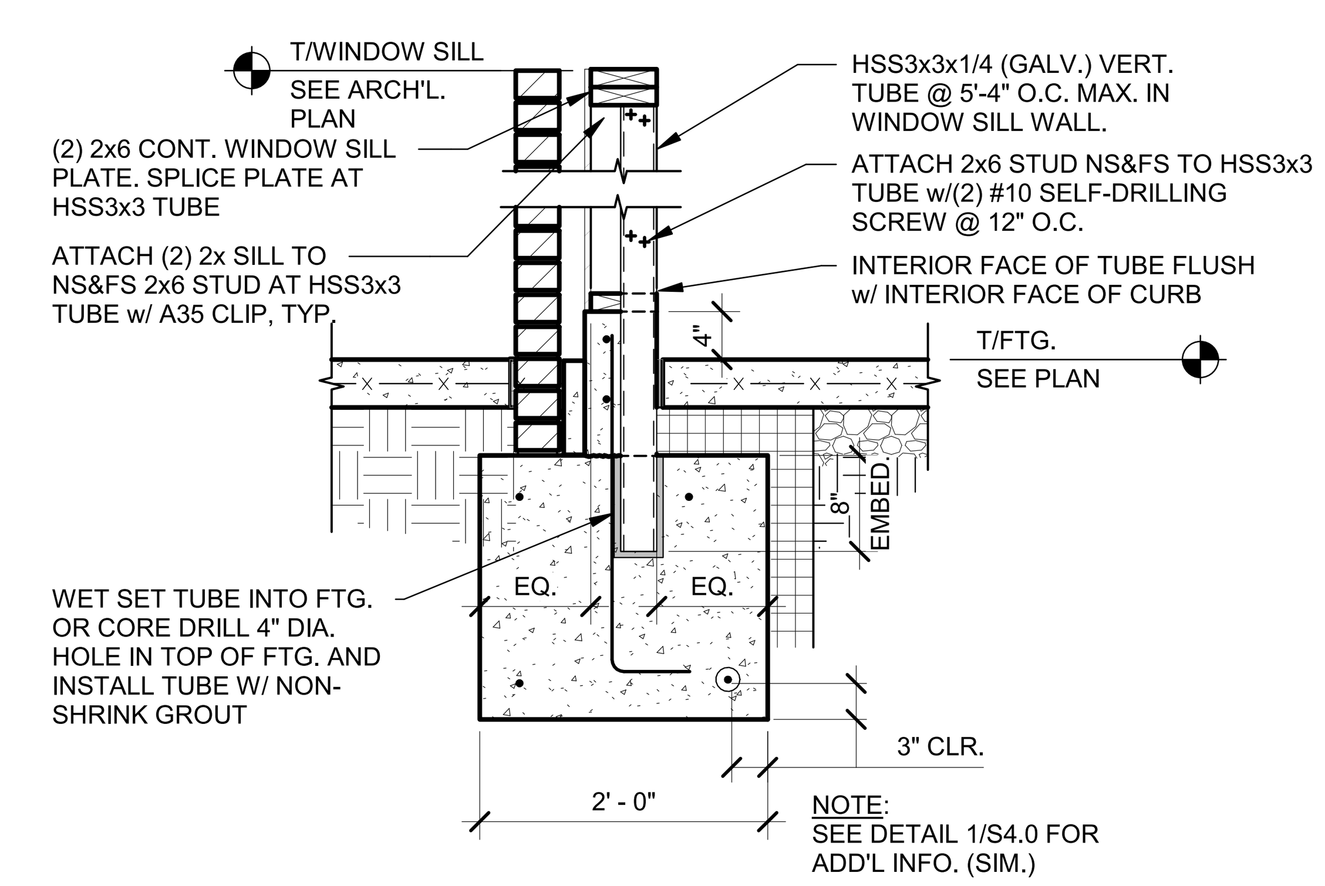
HOLDOWN DETAIL 3/4" = 1'-0" 6



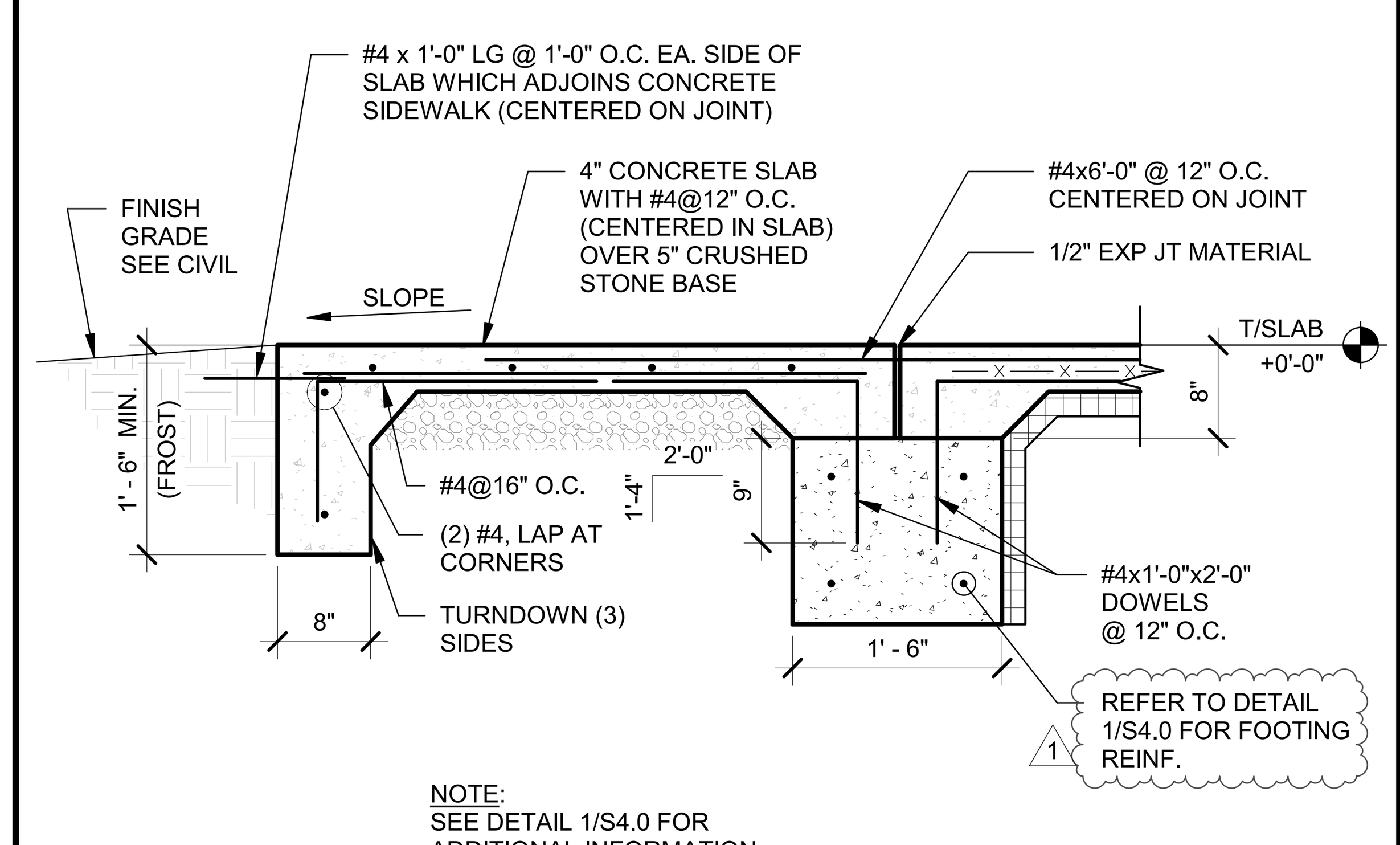
FOOTING AT ENTRY PILASTER 3/4" = 1'-0" 2



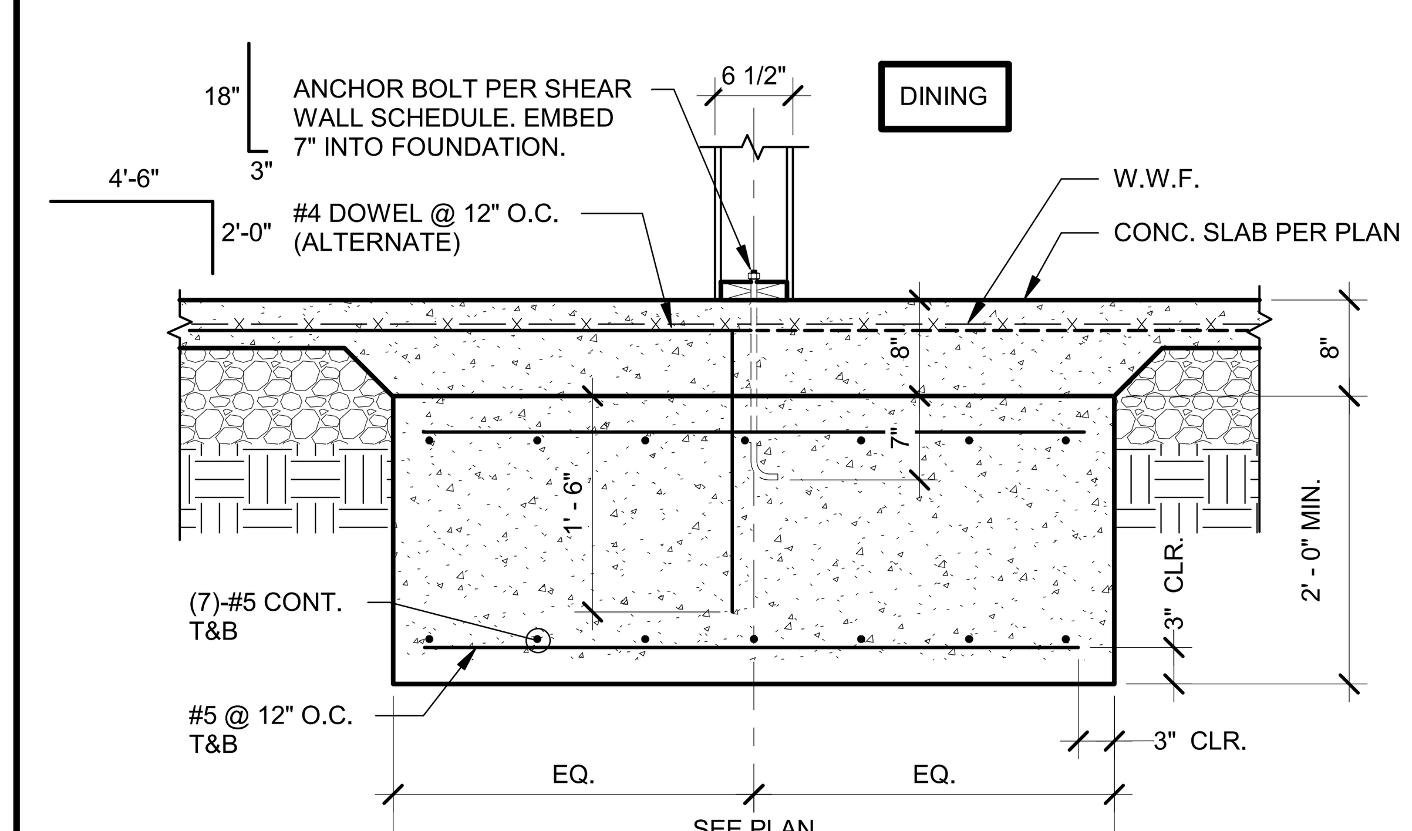
TYP. SLAB JOINT DETAIL 3/4" = 1'-0" 11



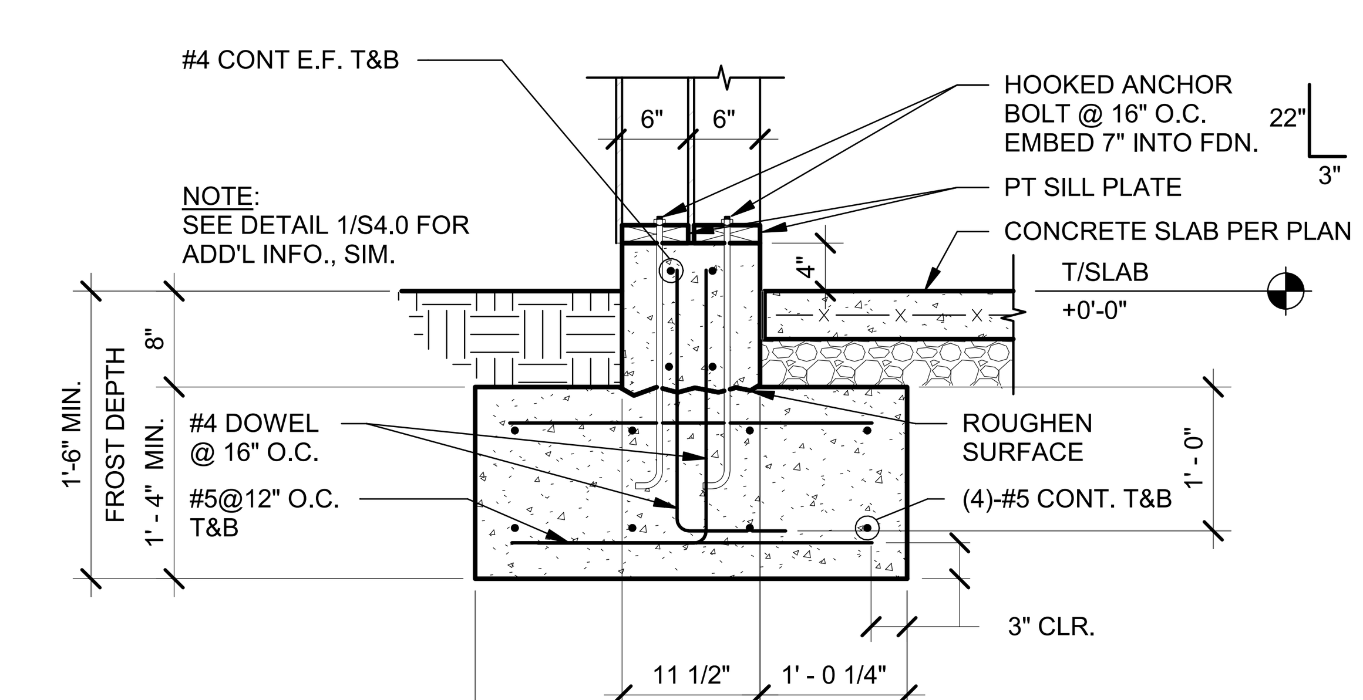
WINDOW SILL BRACING DETAIL 3/4" = 1'-0" 7



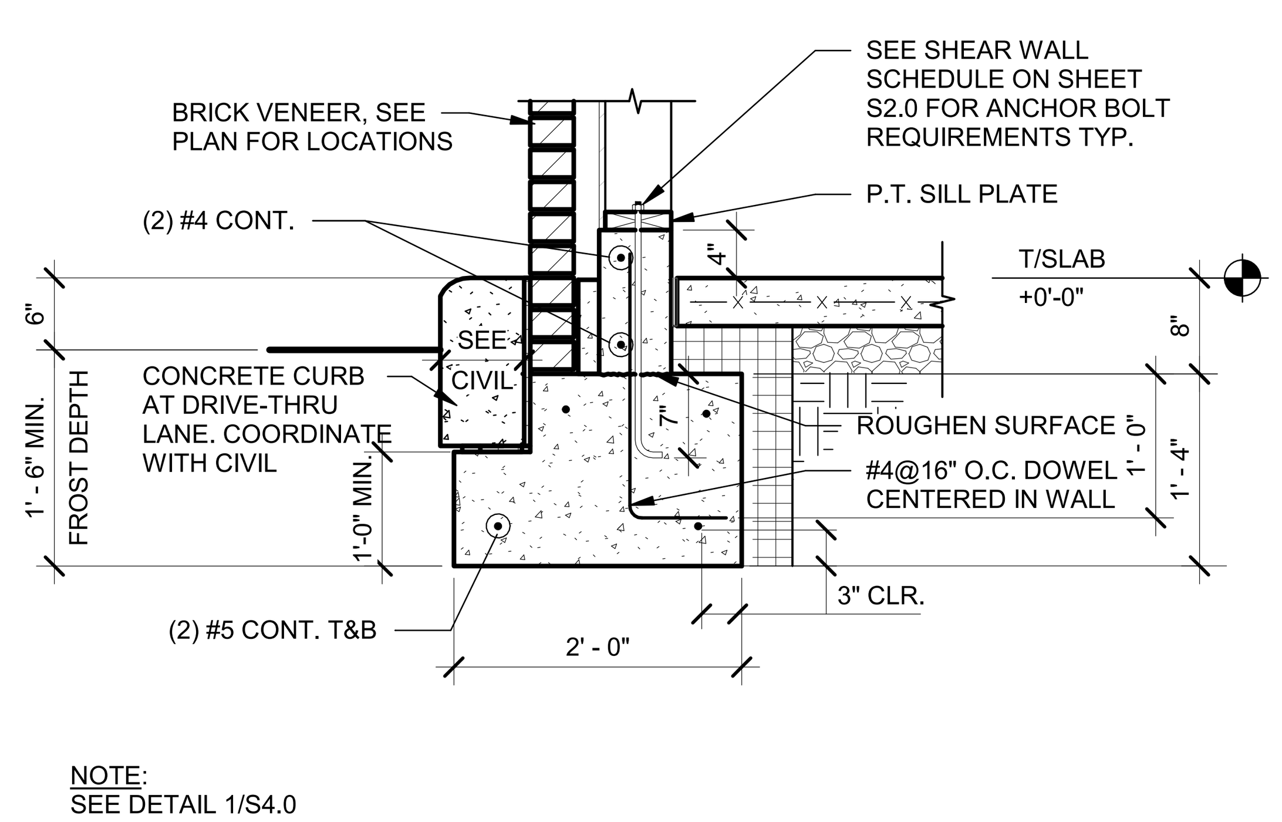
FOOTING AT FULL HEIGHT OPENING 3/4" = 1'-0" 3



FOOTING AT INTERIOR SHEARWALL 3/4" = 1'-0" 12



SECTION AT TOWER LEG 3/4" = 1'-0" 8



FOOTING AT DRIVE THRU 3/4" = 1'-0" 4

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ENDEAVOR 2.0
STRUCTURAL DETAILS

S4.0

PLOT DATE: 3/31/2022 12:07:32 PM

C:\Users\cpisad\OneDrive - GPD Group\Documents\TB 314703 Mt Holly NC - STRU_S4.0_CSpisak\KMSA.rvt

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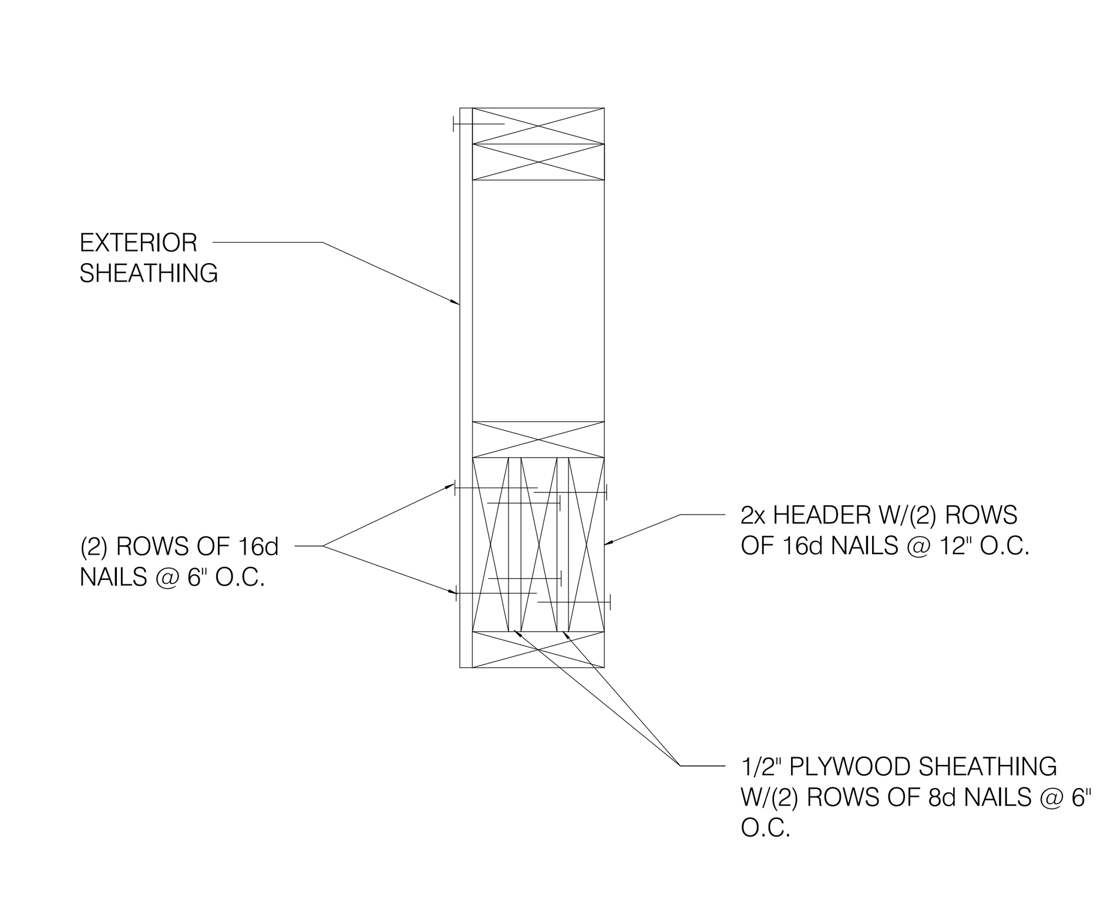
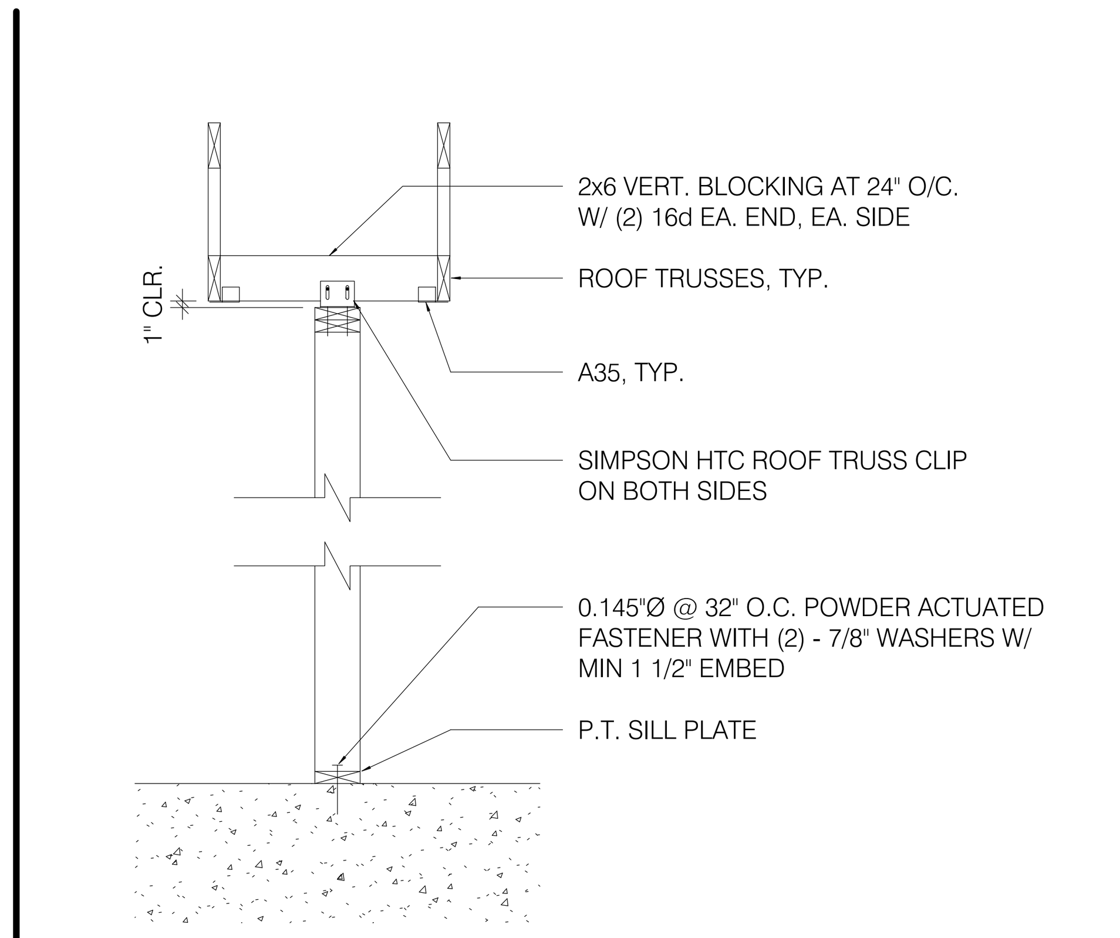
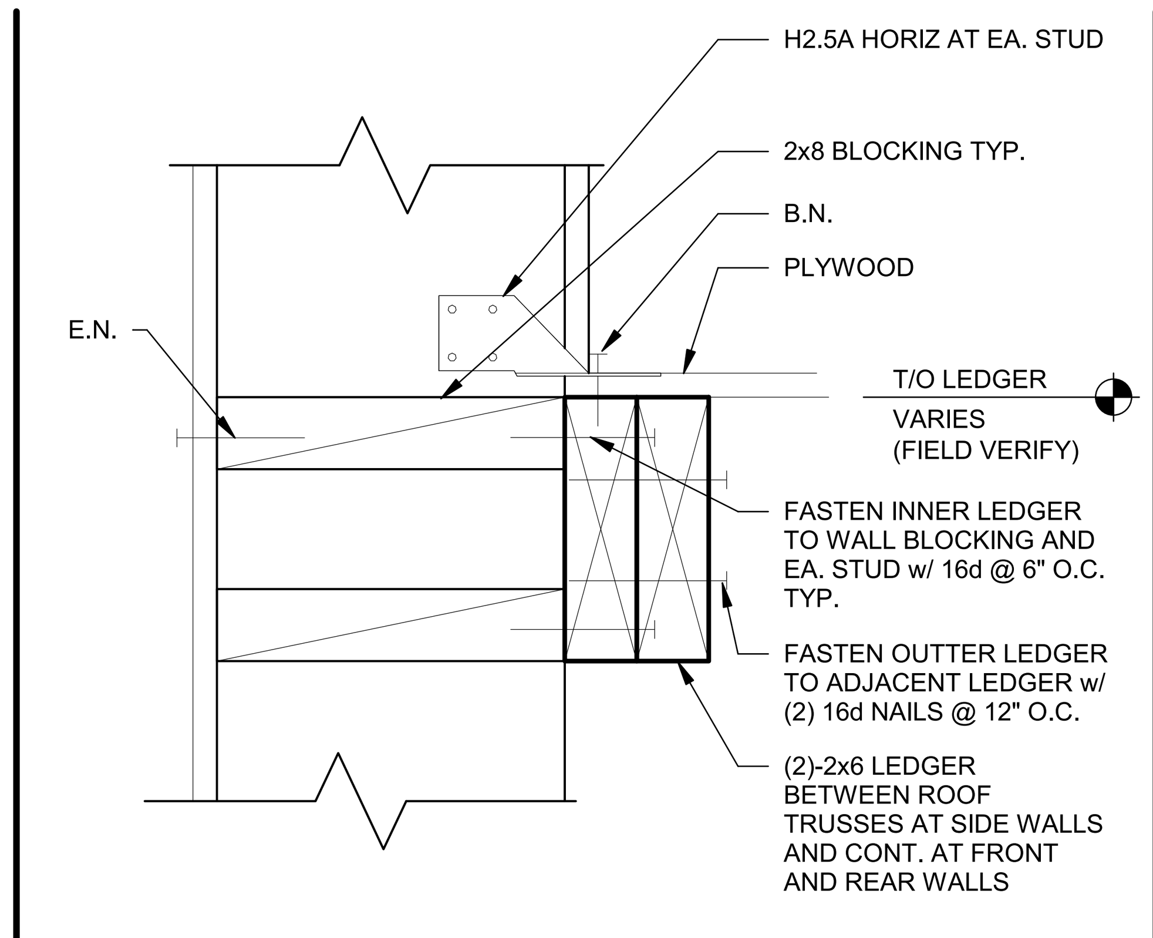


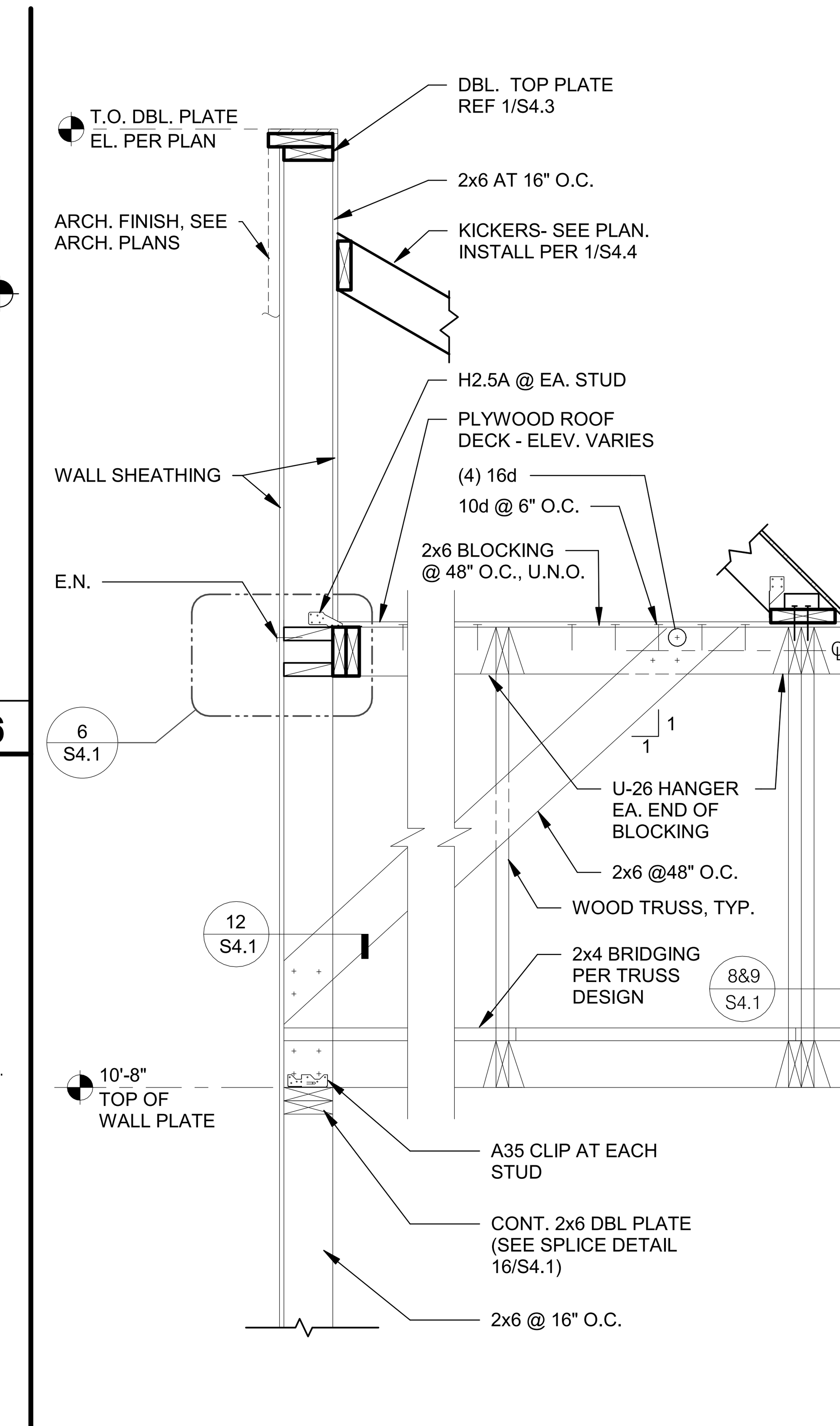
TYP. MULTIPLE HEADER 1-1/2" = 1'-0" 14



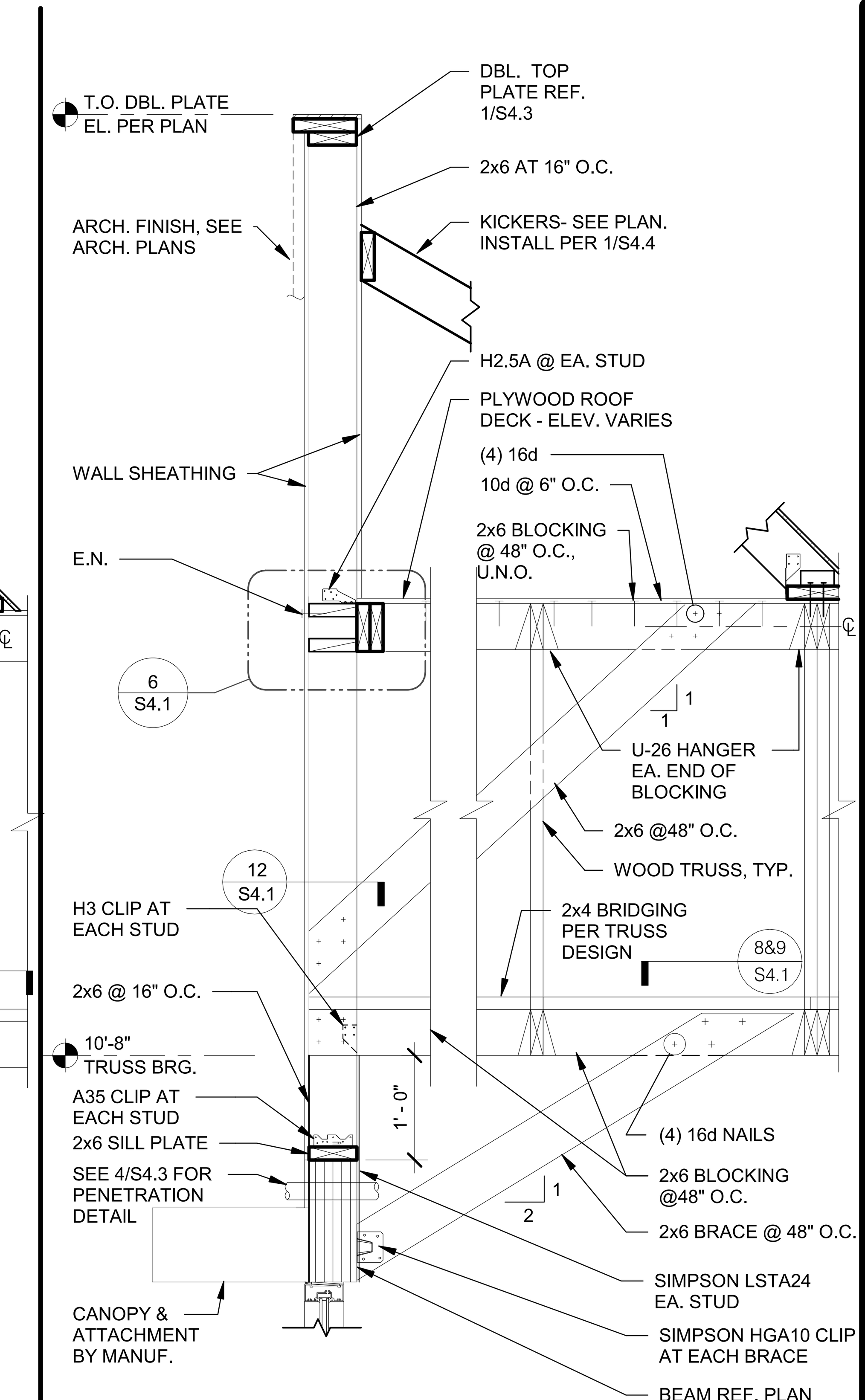
SUPPORT - PARALLEL TO TRUSS 1/2" = 1'-0" 10



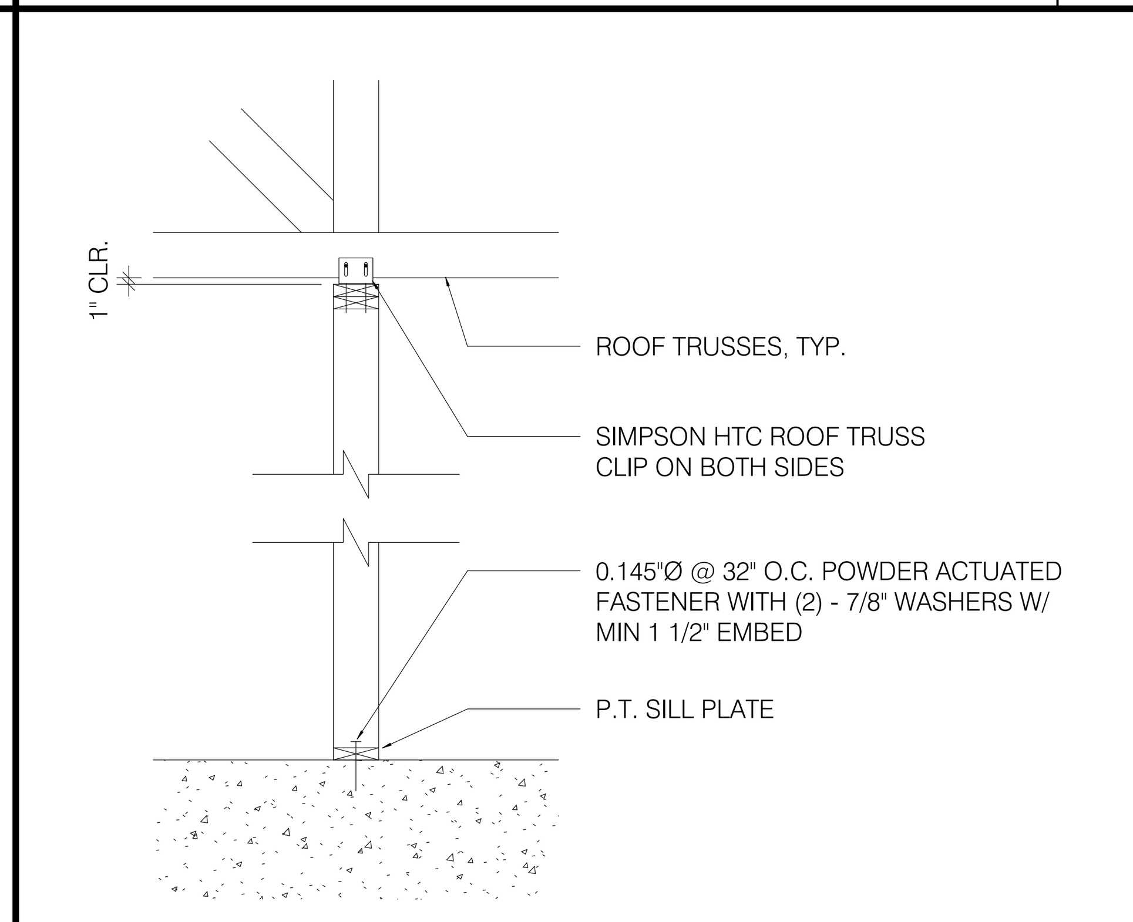
LEDGER DETAIL 3" = 1'-0" 6



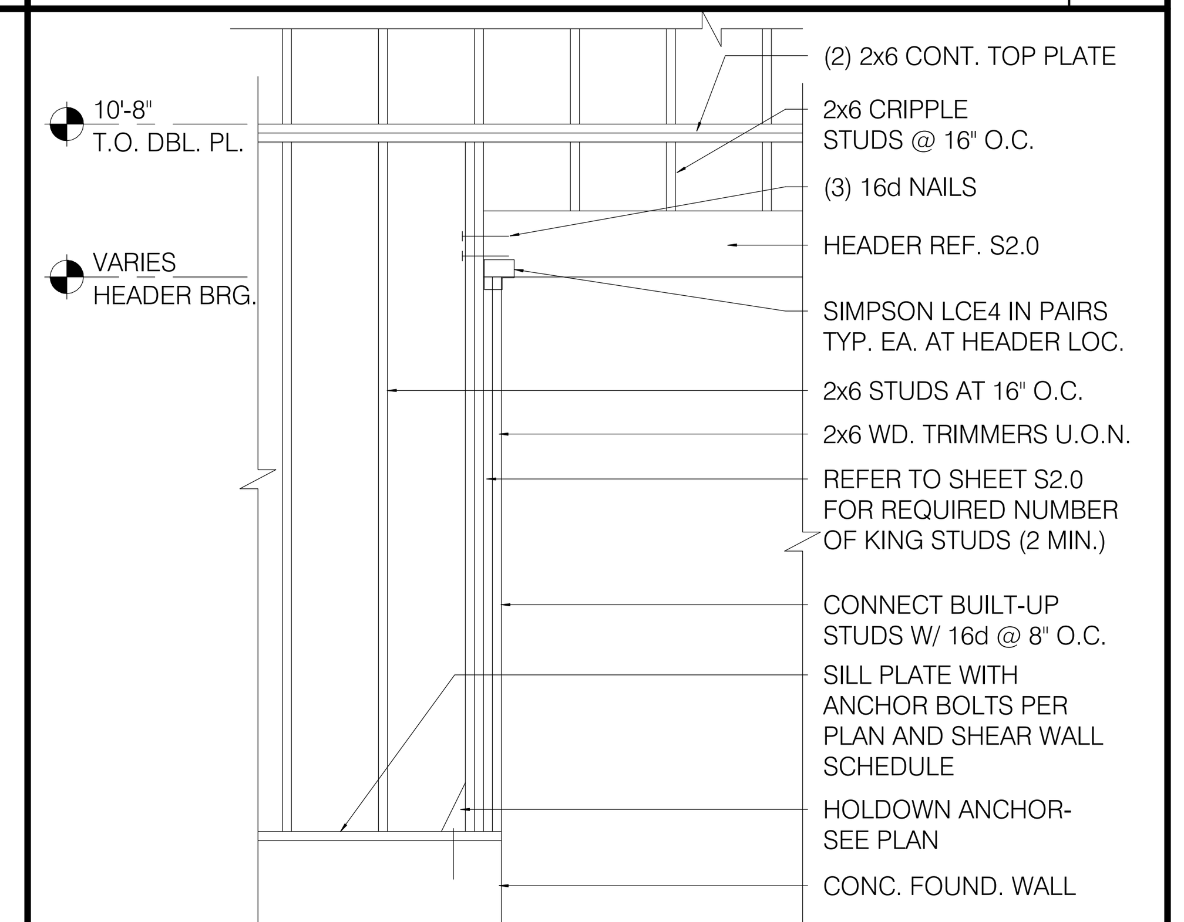
REAR WALL SECTION N.T.S. 4



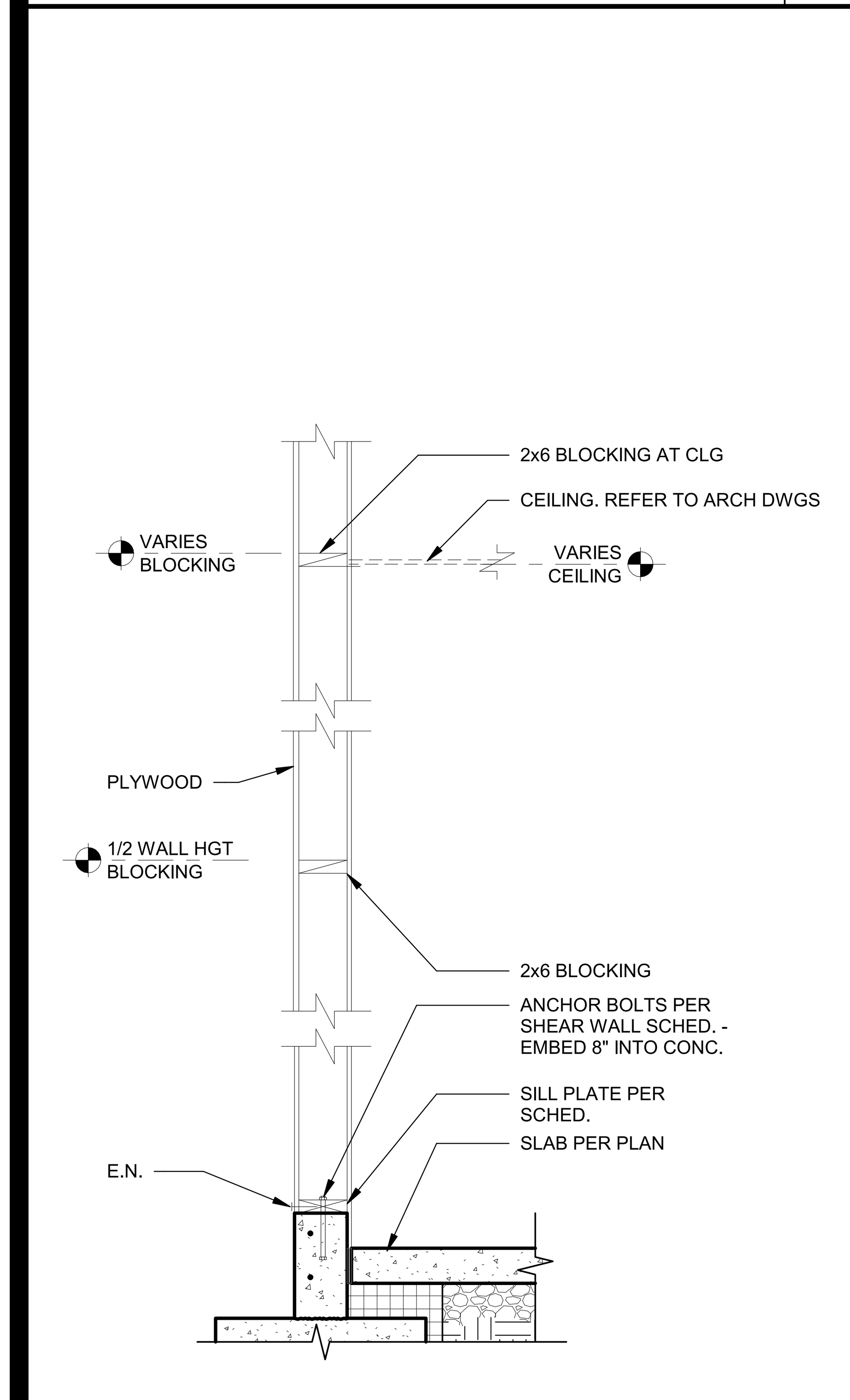
FRONT WALL SECTION N.T.S. 1



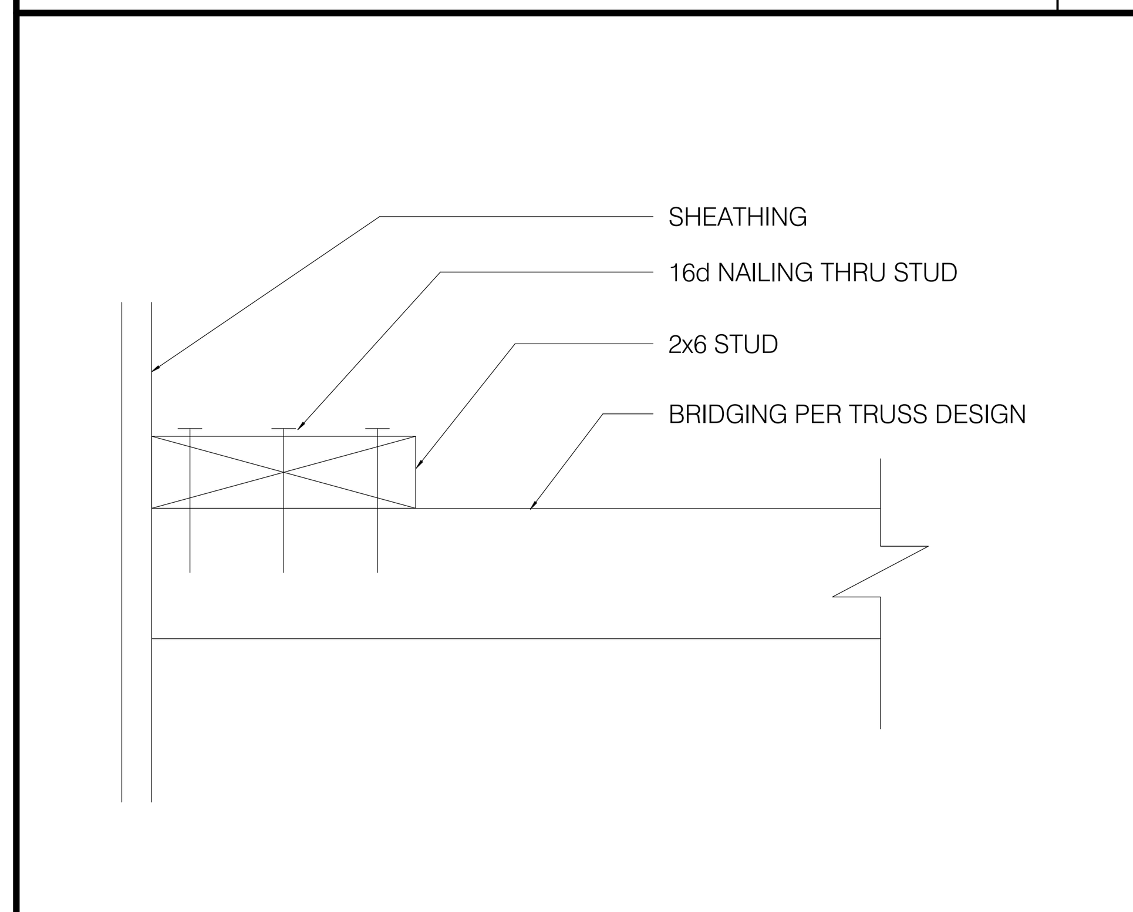
SUPPORT PERP. TO TRUSS 1/2" = 1'-0" 11



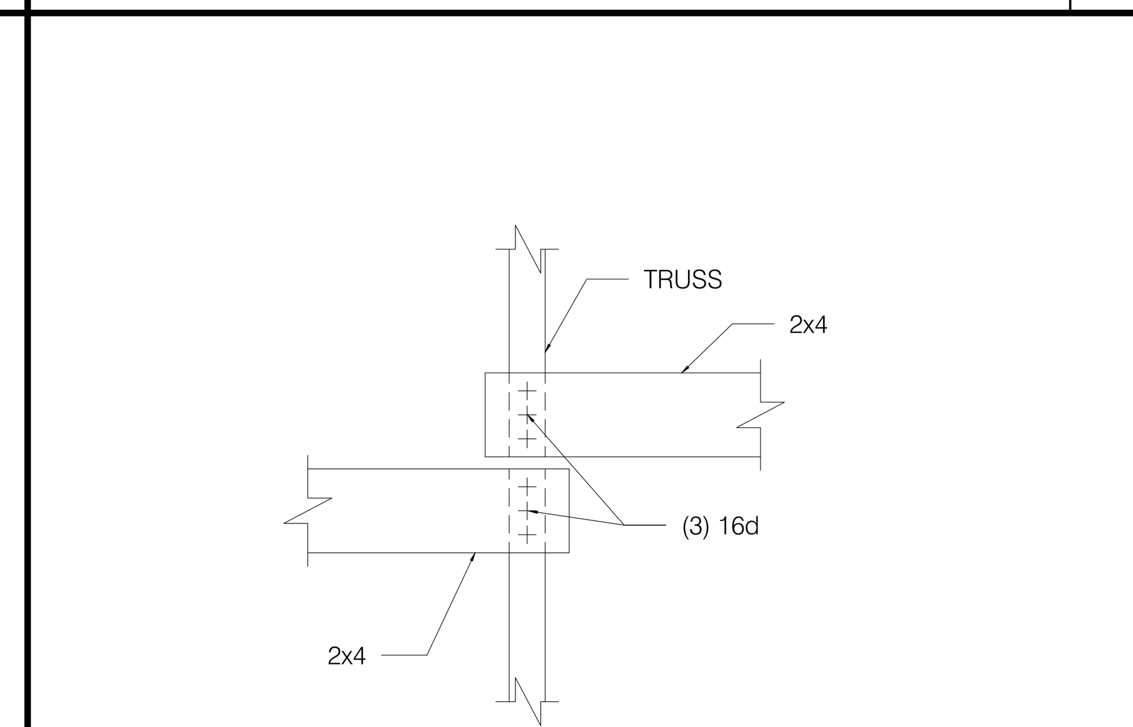
FRAMING ELEVATION AT OPENING N.T.S. 7



TYPICAL WALL BELOW TRUSS 3/4" = 1'-0" 15

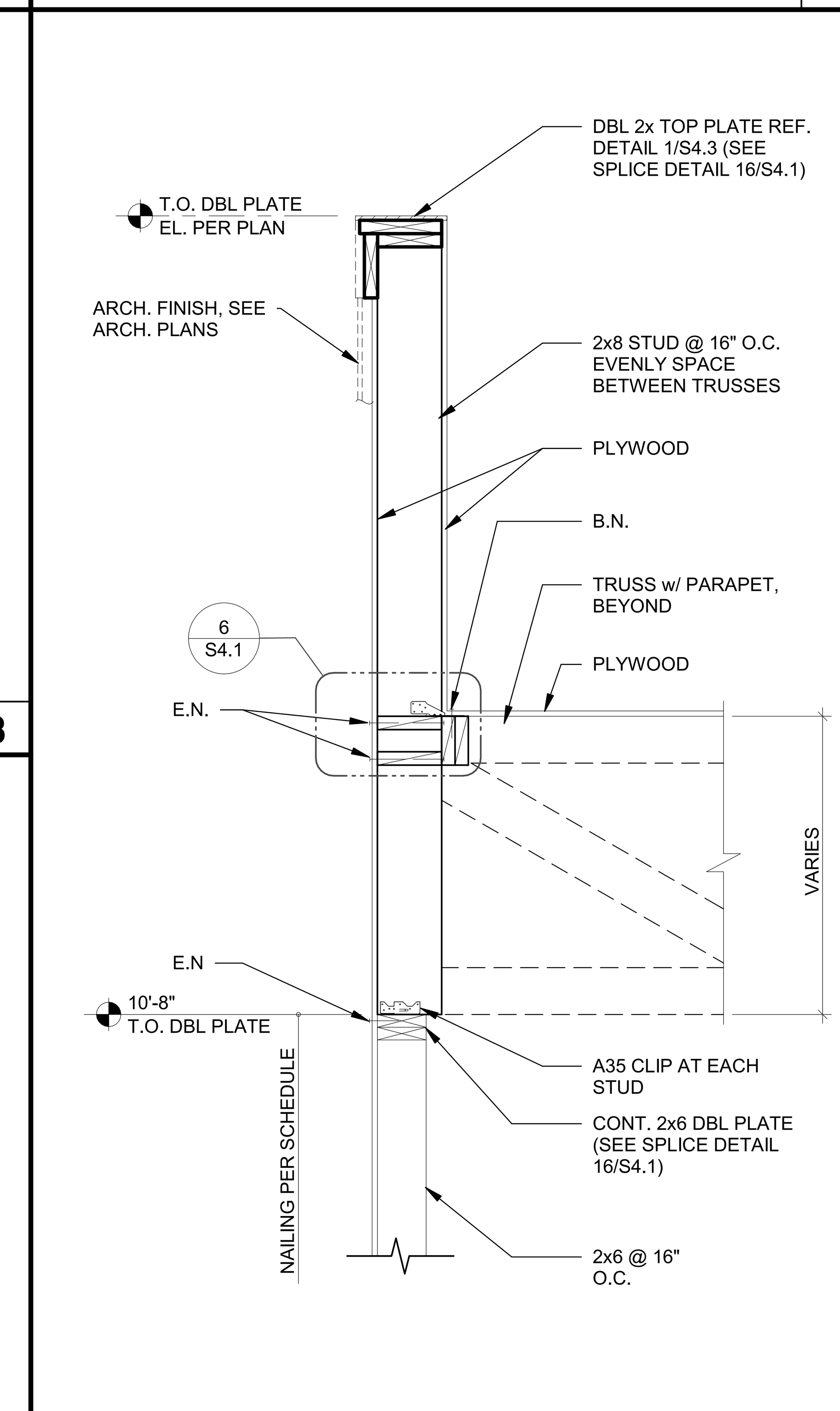


BRIDGING DETAIL 3" = 1'-0" 12

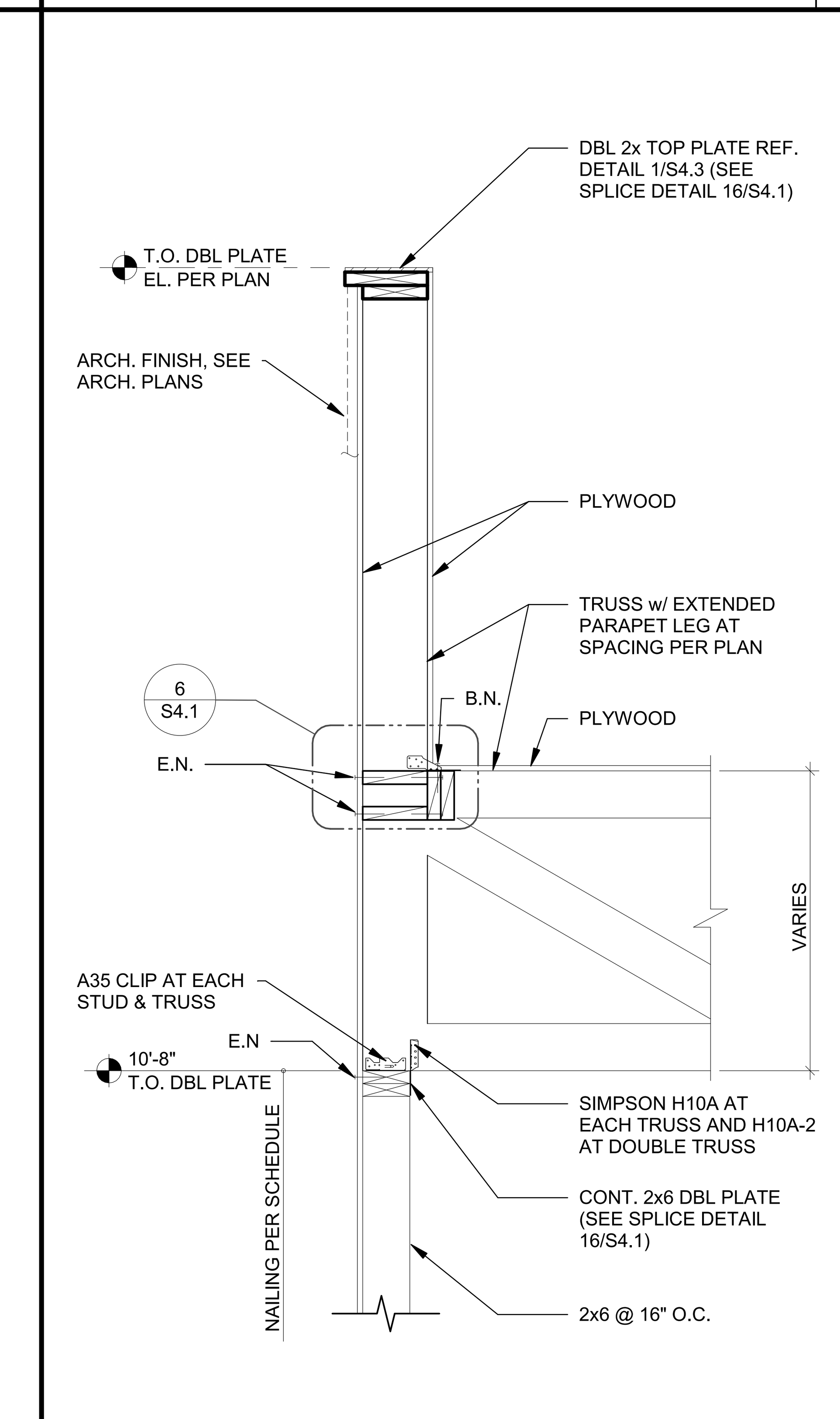


NOTE: REFER TO TRUSS ELEVATION 2/S4.2.

BRIDGING LAP DETAIL 1/4" = 1'-0" 8



SIDE WALL AT PARAPET STUD 3/4" = 1'-0" 5



SIDE WALL AT TRUSS N.T.S. 2

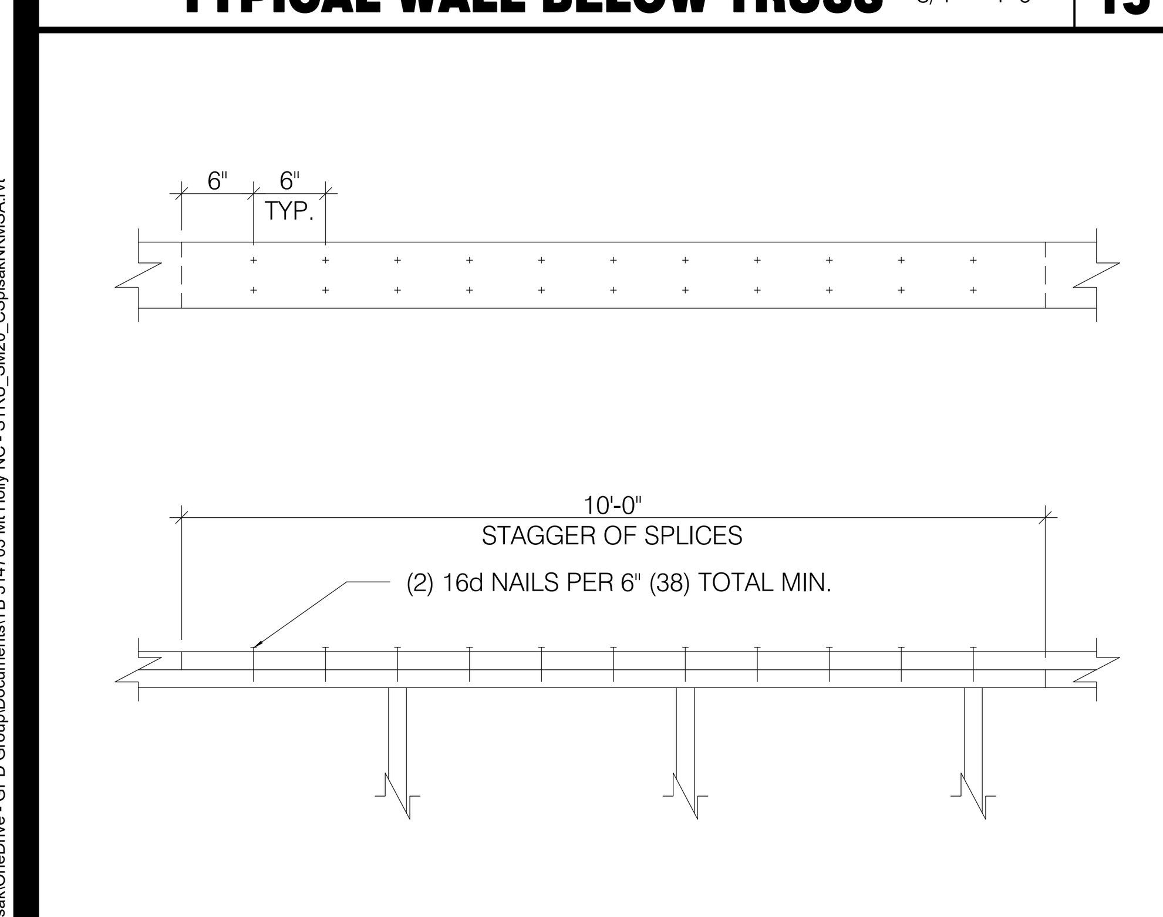
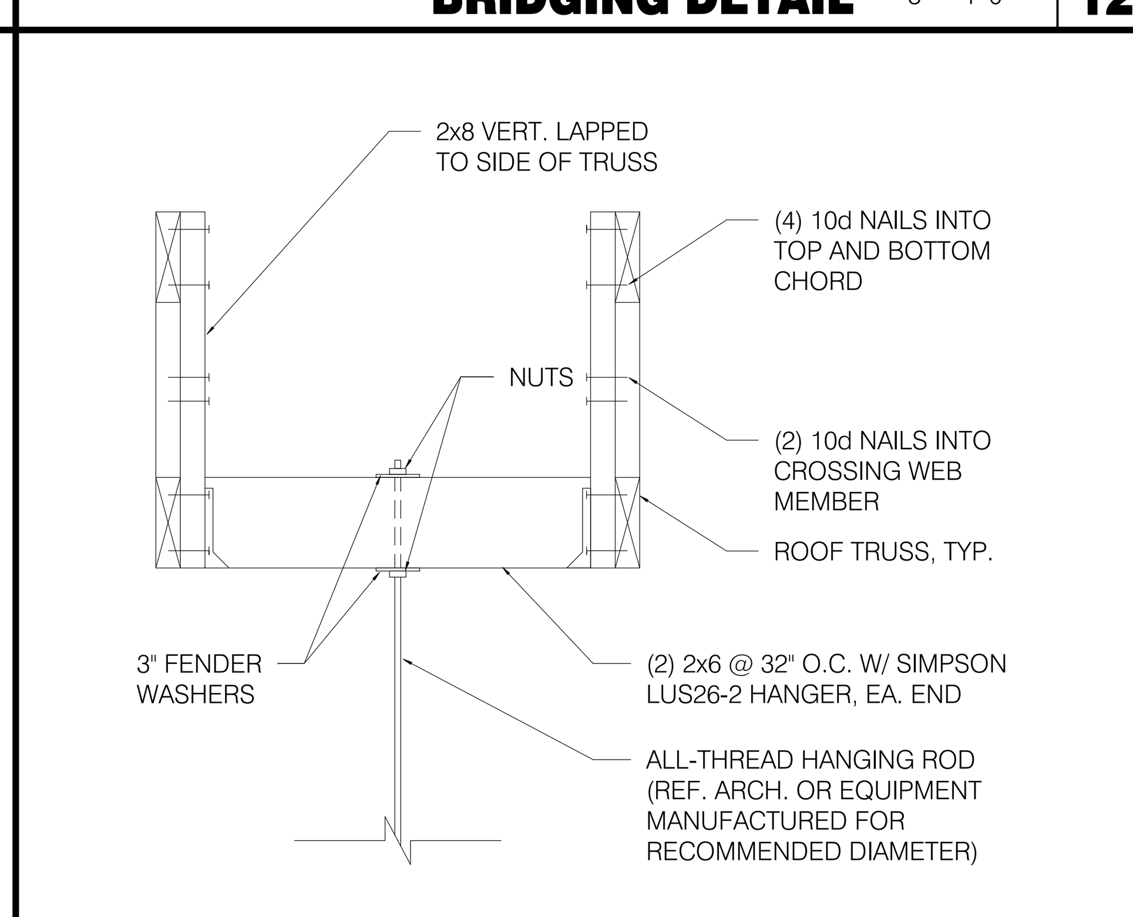
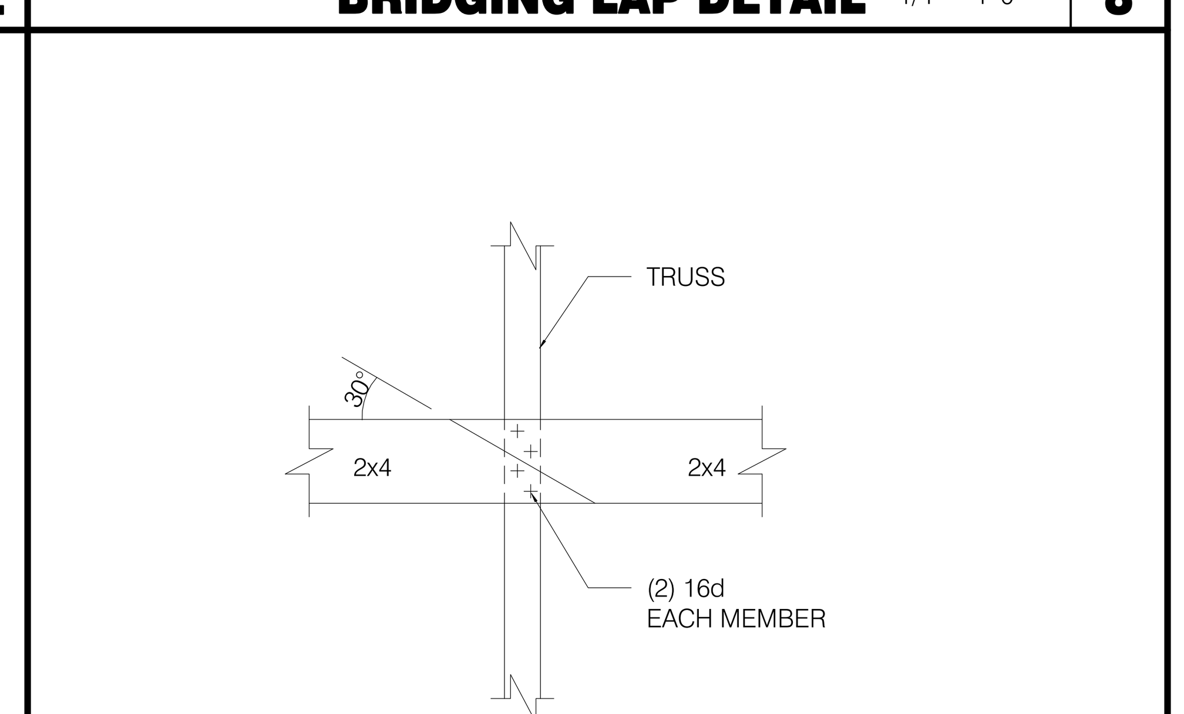


PLATE LAP DETAIL 1" = 1'-0" 16



HANGING BULKHD. OR HOOD DETL. N.T.S. 13



NOTE: REFER TO TRUSS ELEVATION 2/S4.2.

BRIDGING LAP DETAIL AT OPEN CLG. N.T.S. 9

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TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

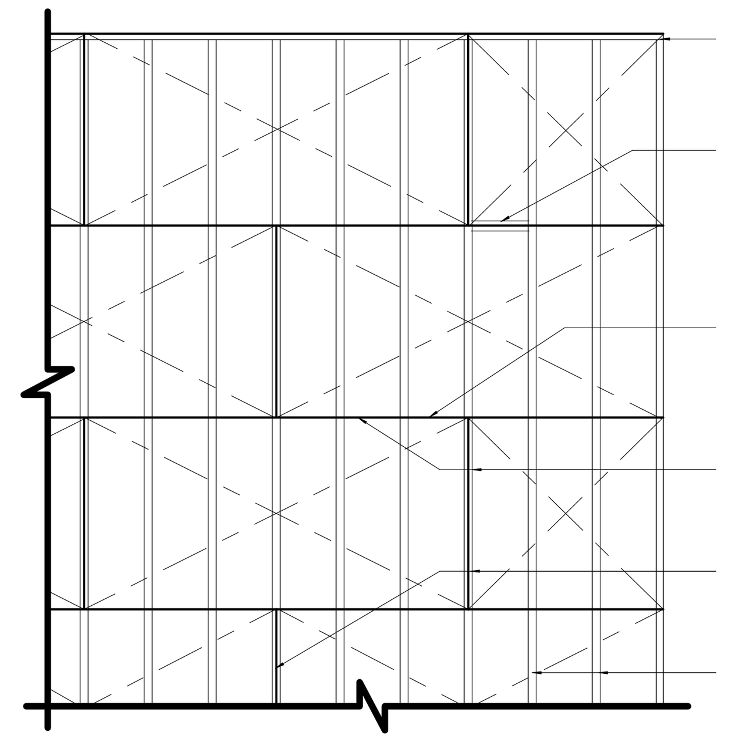
STRUCTURAL DETAILS

S4.1

PLOT DATE: 3/31/2022 12:07:33 PM

CONNECTION:	NAILING:
1. JOIST TO SILL OR GIRDER, TOENAIL	(3-10d)
2. BRIDGING TO JOIST, TOENAIL EACH END	(2-8d)
3. 1"x6" (25MMx152MM) SUBFLOOR OR LESS TO JOIST, FACE NAIL	(2-8d)
4. WIDER THAN 1" x 6" (25MMx152MM) SUBFLOOR TO JOIST, FACE NAIL	(3-8d)
5. 2" (52MM) SUBFLOOR TO GIRDER, BLIND AND FACE NAIL	(2-16d)
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	(16d @ 16" O.C.)
7. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED W. PANELS	(3-16d PER 16")
8. TOP PLATE TO STUD, END NAIL	(2-16d)
9. STUD TO SOLE PLATE	(2-16d END NAIL)
10. DOUBLE STUDS, FACE NAIL	(16d @ 16" O.C.)
11. DOUBLE TOP PLATES, TYPICAL FACE NAIL	(16d @ 16" O.C.)
12. DOUBLE TOP PLATES, LAP SPLICE	(8-16d)
13. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	(3-8d)
14. RIM JOIST TO TOP PLATE, TOENAIL	(8d @ 6" O.C.)
15. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	(2-16D)
16. CONTINUOUS HEADER, TWO PIECES	(16d @ 16" O.C. ALONG EDGE)
17. CEILING JOISTS TO PLATE, TOENAIL	(3-8d)
18. CONTINUOUS HEADER TO STUD, TOENAIL	(4-8d)
19. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL	(3-16d)
20. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3-16d)
21. RAFTER TO PLATE, TOENAIL	(3-8d)
22. 1" (25MM) BRACE TO EACH STUD AND PLATE, FACE NAIL	(2-8d)
23. 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	(2-8d)
24. WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	(3-8d)
25. BUILT-UP CORNER STUDS	(16d @ 24" O.C.)
26. 2" PLANKS	(2-16D AT EACH SPACE)
27. 2x6 BOX BEAM / HEADER	(12d @ 12" O.C.)
28. BUILT-UP GIRDER AND BEAMS	(20d @ 32" O.C. AT TOP & BOTTOM AND STAGGERED 2-20d AT ENDS & AT EACH SPACE)

NAILING SCHEDULE N.T.S. 11



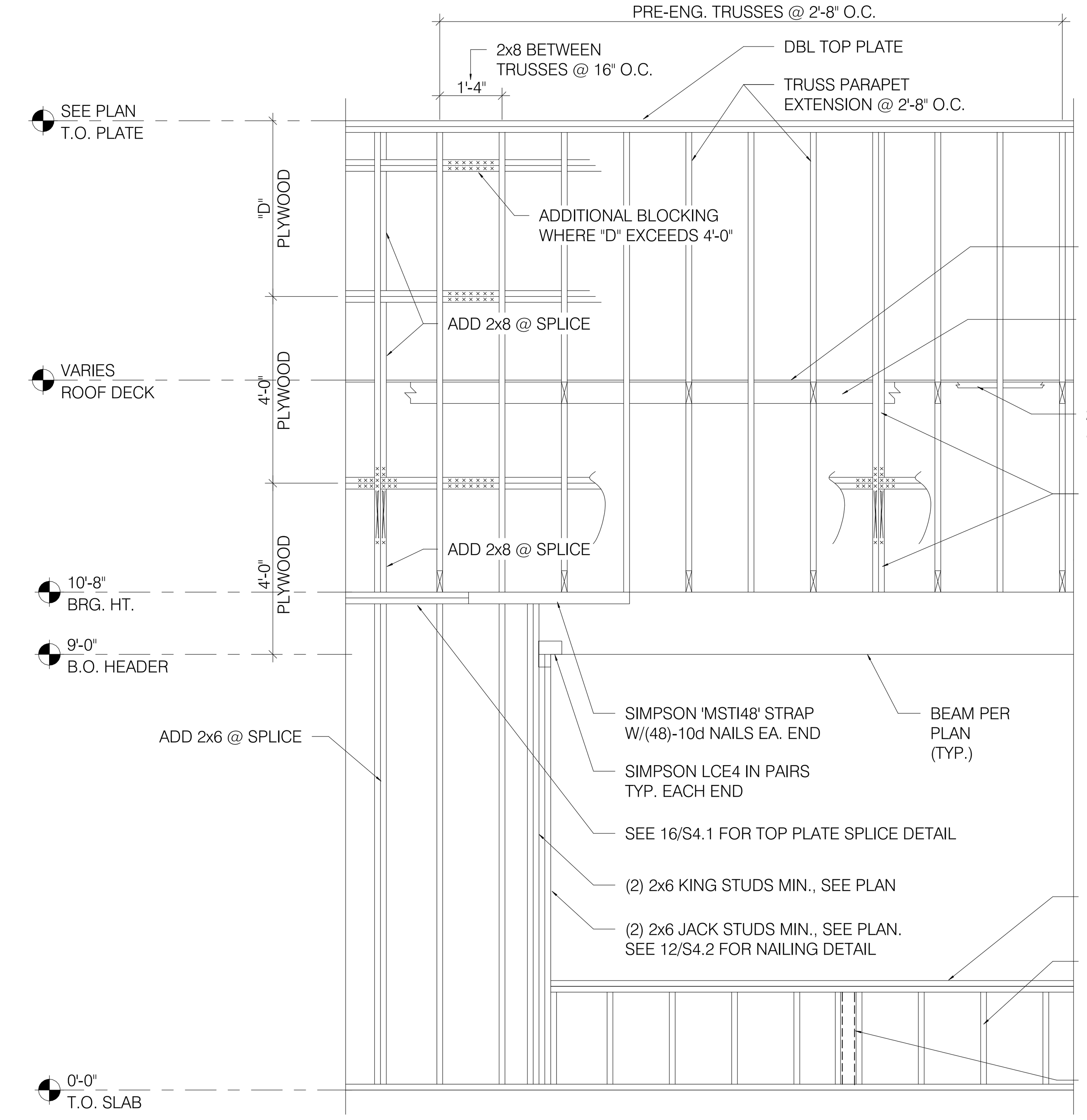
NOTES:
1. MIN. PLYWD. SHT. SIZE SHALL BE 2'-0" X 4'-0".
2. MIN. 3/8" NAILING EDGE DISTANCE.
3. EDGE NAIL (E.N.) O/ BEAMS AND AROUND ALL OPENINGS.

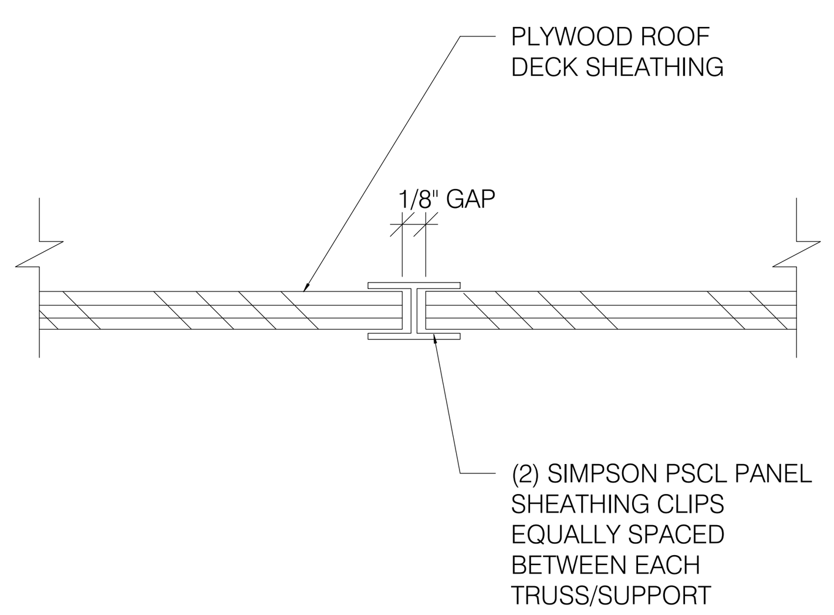
ROOF NAILING PLAN N.T.S. 8

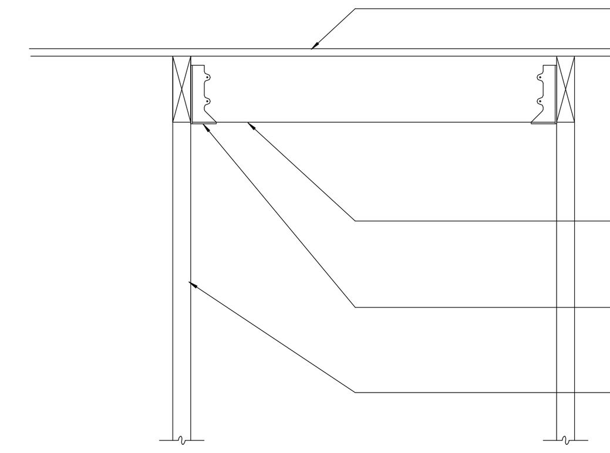
EQUIPMENT		DESIGN WEIGHT
HVAC UNIT - RTU-1	*	SEE PLAN
HVAC UNIT - RTU-2	*	SEE PLAN
EXHAUST FAN - EF-1	*	200 lbs.
EXHAUST FAN - EF-2	*	70 lbs.
HOOD #1 - TACO BELL		400 lbs.
ICE CONDENSERS		200 lbs.
FREEZER CONDENSER		300 lbs.
COOLER CONDENSER		300 lbs.

* A. ALL DESIGN WEIGHTS INCLUDE CURB.
B. COORDINATE WEIGHTS WITH HVAC UNIT SCHEDULE 1/M1.0.

ROOF TOP EQUIPMENT WEIGHTS 1" = 1'-0" 5



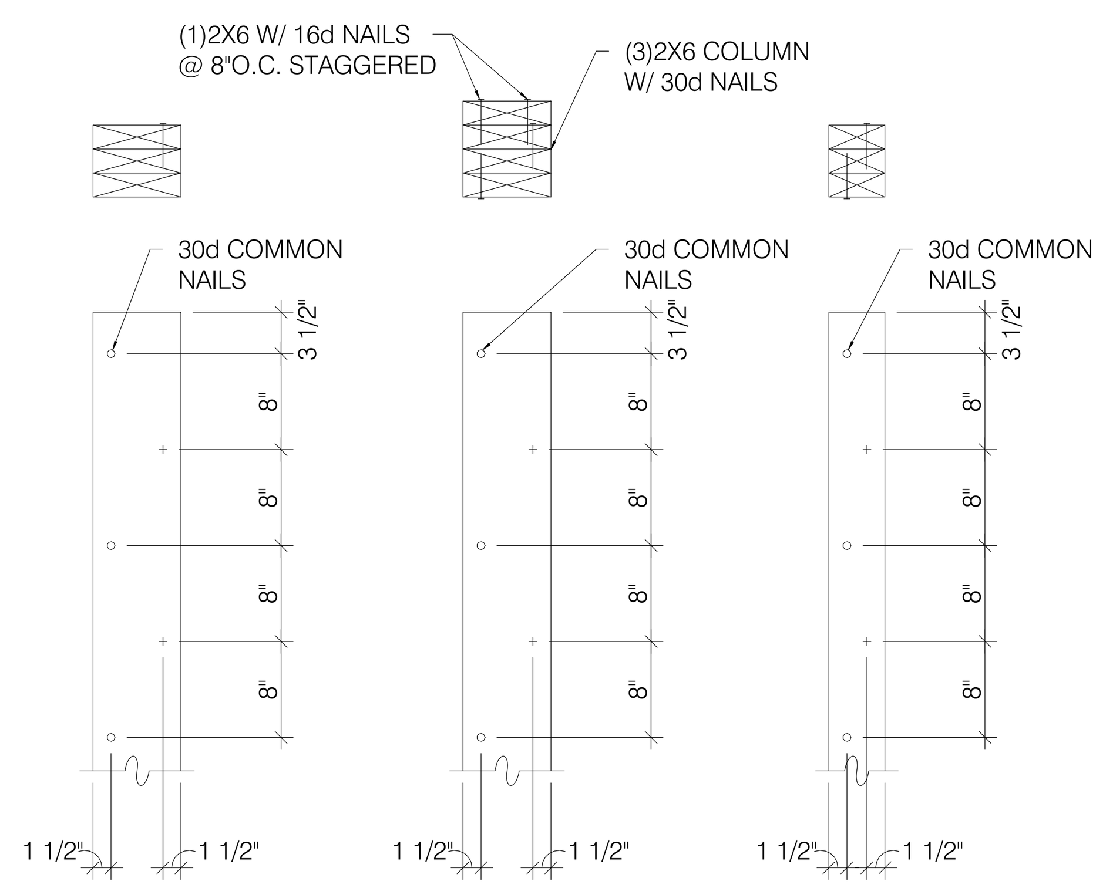




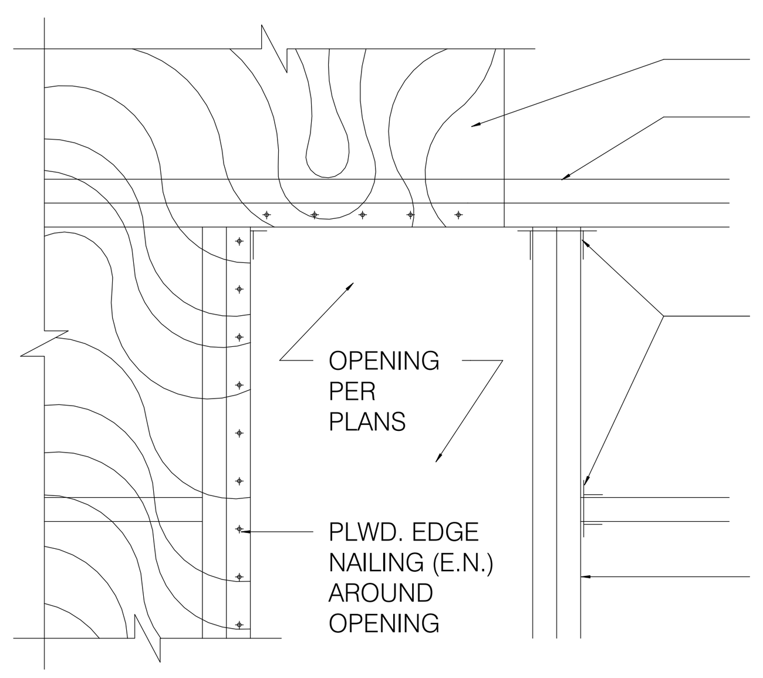
PLYWOOD EDGE BLOCKING 1" = 1'-0" 9

ROOF OPENING DETAIL 1" = 1'-0" 6

WALL FRAMING DETAIL 1" = 1'-0" 1



BUILT-UP 2X COLUMNS 1" = 1'-0" 12



NOTE:
HANGERS SHALL BE "SIMPSON" STANDARD "U" AT ROOF. DBL. JOIST OR RAFTERS SHALL BE JOINED TOGETHER AS FOLLOWS:
1. 10" OR LESS NOM. DEPTH - 16d @ 12" O.C. STAGGERED
2. MORE THAN 10" - (2)16d @ 12" O.C.

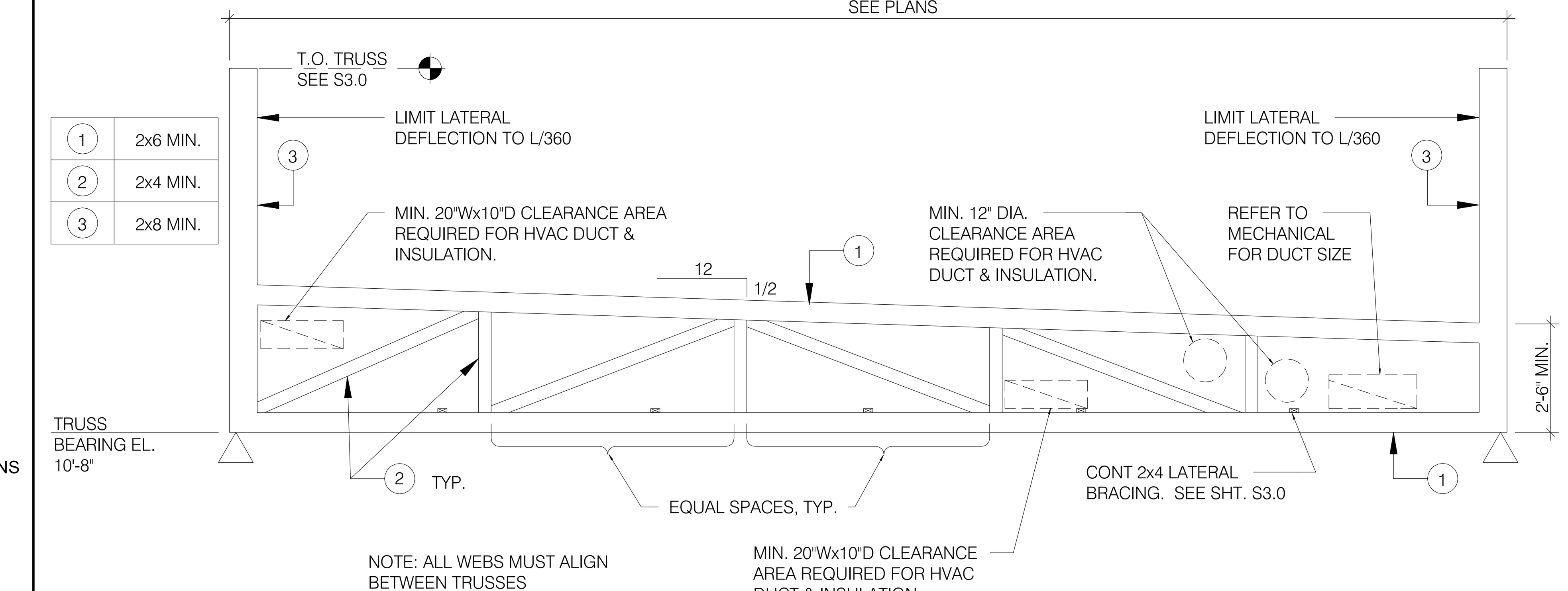
TYPICAL ROOF OPENING 1" = 1'-0" 10

TRUSS TYPES	SINGLE TRUSS DESIGNATION	DOUBLE TRUSS DESIGNATION	BEARING POINT	COMMENTS
T1 - T23	X	XX	△	SEE NOTE 1.

NOTES:
1. HOLDOWN CONNECTORS SHALL BE SPECIFIED BY SITE SPECIFIC ARCHITECT/ ENGINEER BASED UPON LOADING DATA PROVIDED BY TRUSS DESIGNER.
2. PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION.
3. TRUSS MEMBER SIZES ARE FOR REFERENCE ONLY. ACTUAL SIZE SHALL BE DETERMINED BY TRUSS MANUFACTURER BASED ON ACTUAL LOAD CONDITIONS AND CODES.

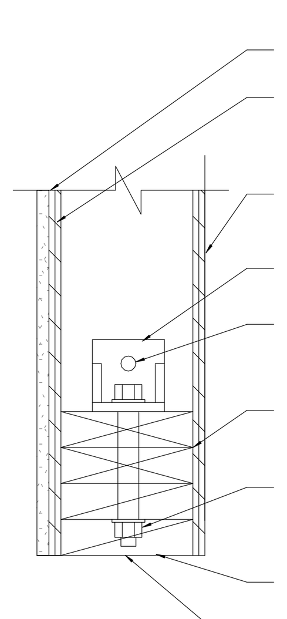
TRUSS SCHEDULE 1" = 1'-0" 7

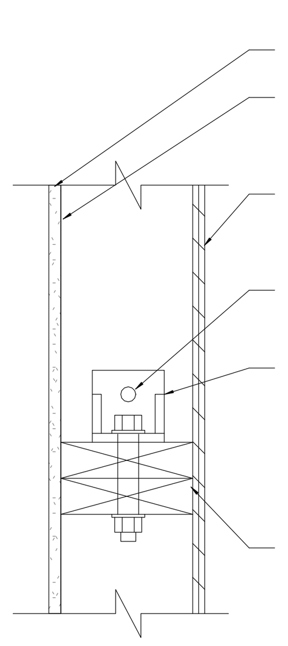
1	2x6 MIN.
2	2x4 MIN.
3	2x8 MIN.

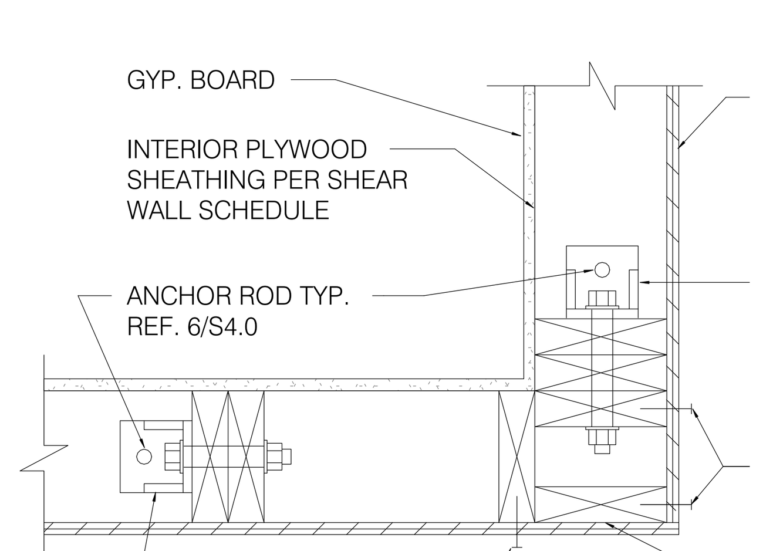


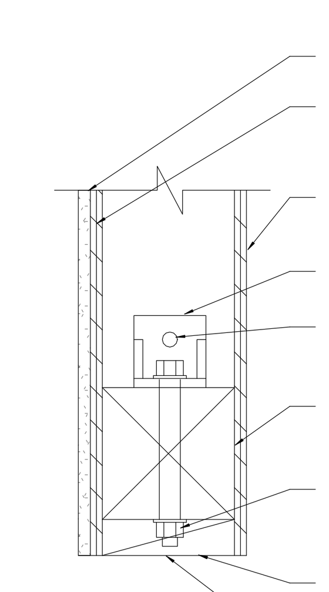
NOTE: ALL WEBS MUST ALIGN BETWEEN TRUSSES

TRUSS ELEVATION 1" = 1'-0" 2



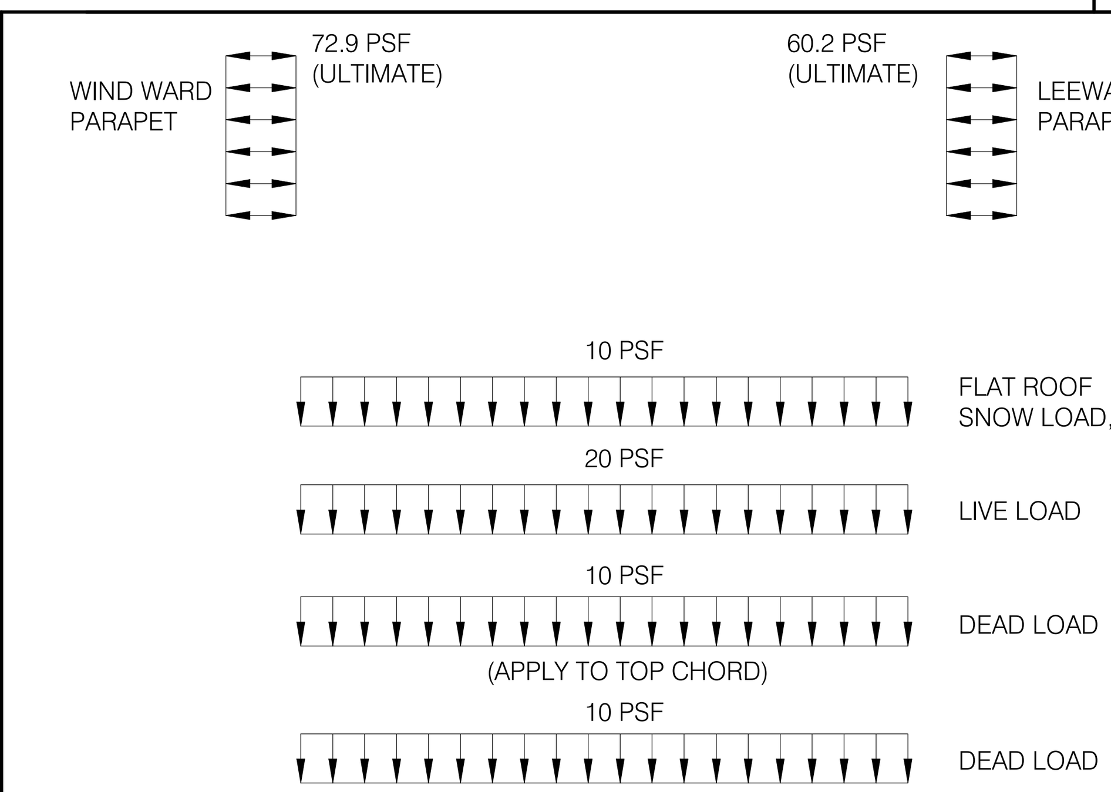






NOTE:
SEE PLAN FOR OREINTATION. TYPICAL FOR DETAILS A - D.

HOLDOWN DETAILS 1" = 1'-0" 4



NOTE:
APPLY ROOF TOP AND SUSPENDED POINT LOADS. WEIGHT AND LOCATION OF UNITS AS SHOWN ON THIS SHEET ARE NOT INCLUDED IN THE ABOVE LOADING DIAGRAM. VERIFY THESE LOADS WITH MECHANICAL SUPPLIER BEFORE DESIGNING TRUSS.

TRUSS LOAD DIAGRAMS 1" = 1'-0" 3

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S4.2

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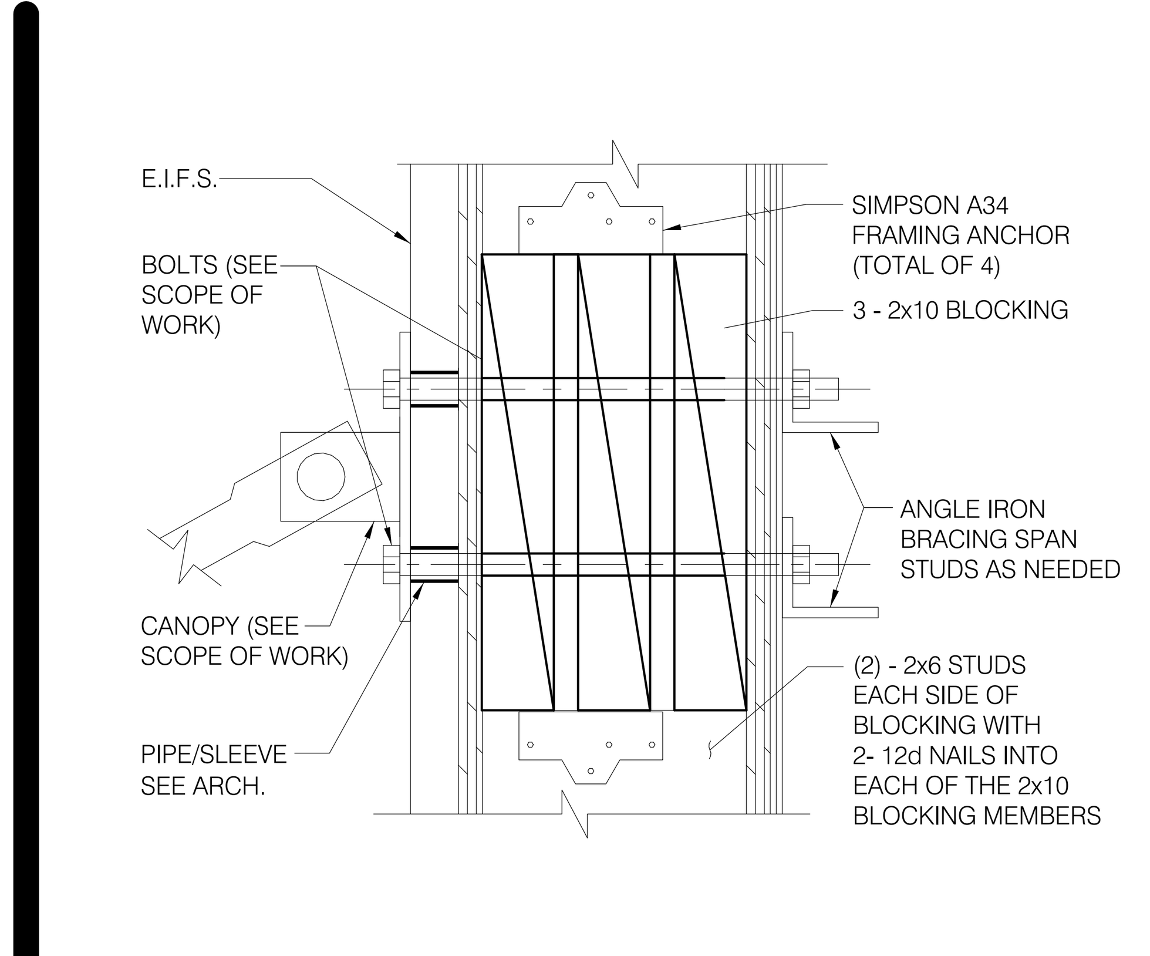
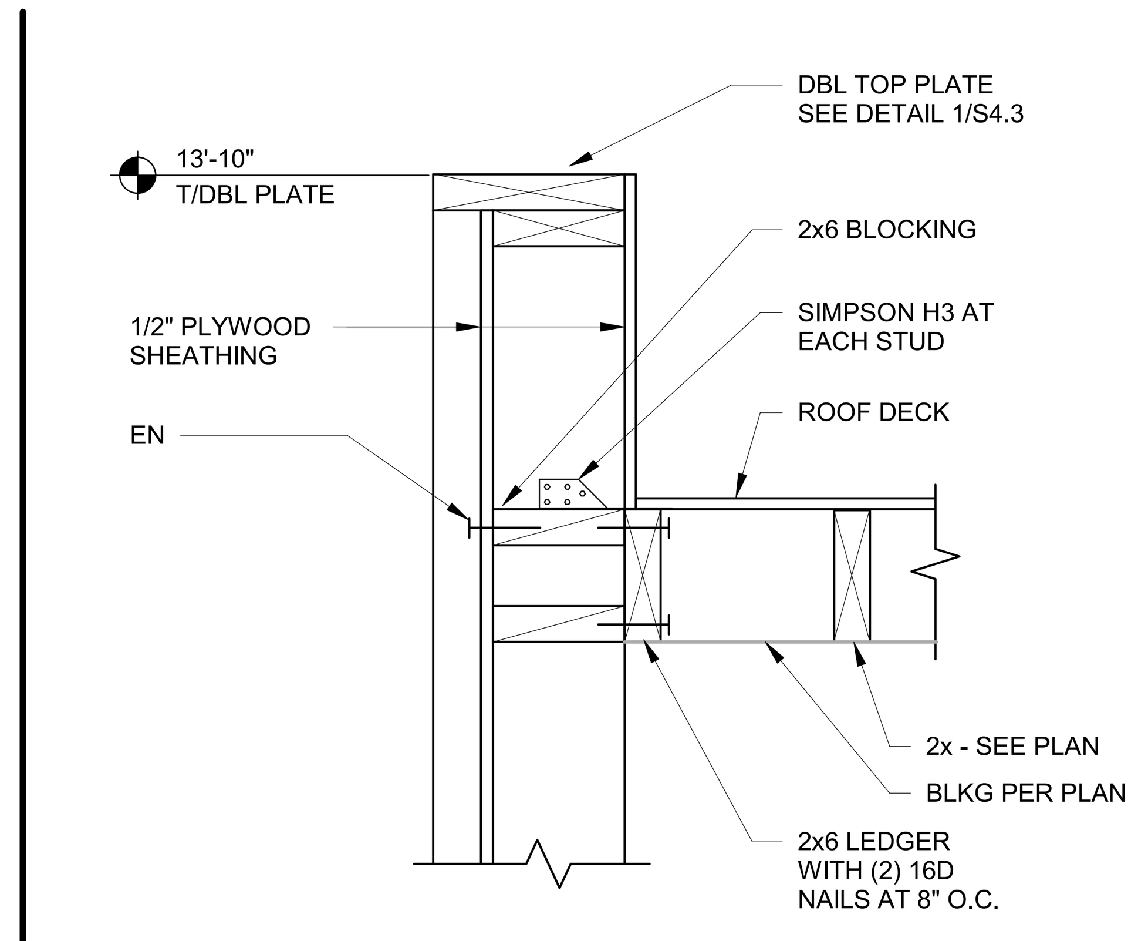
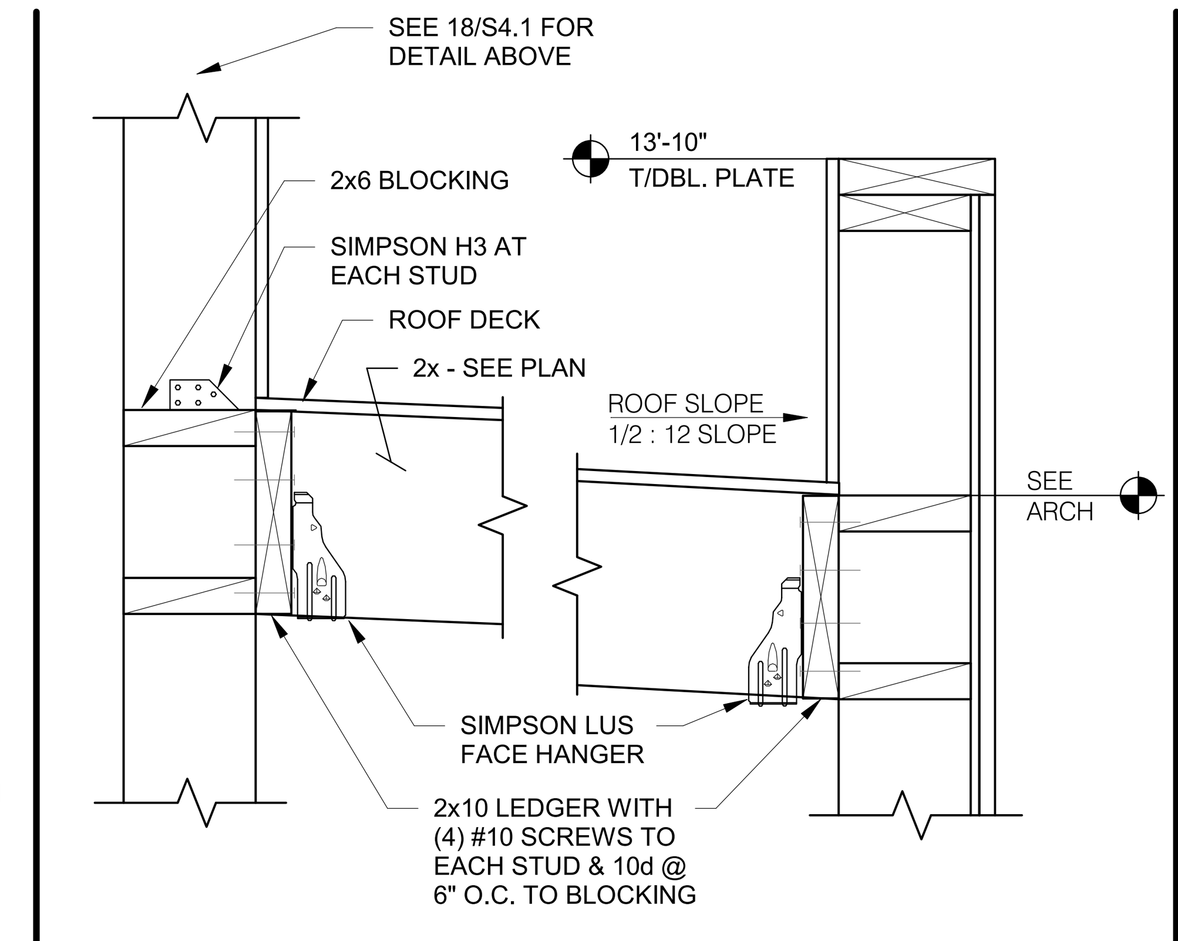


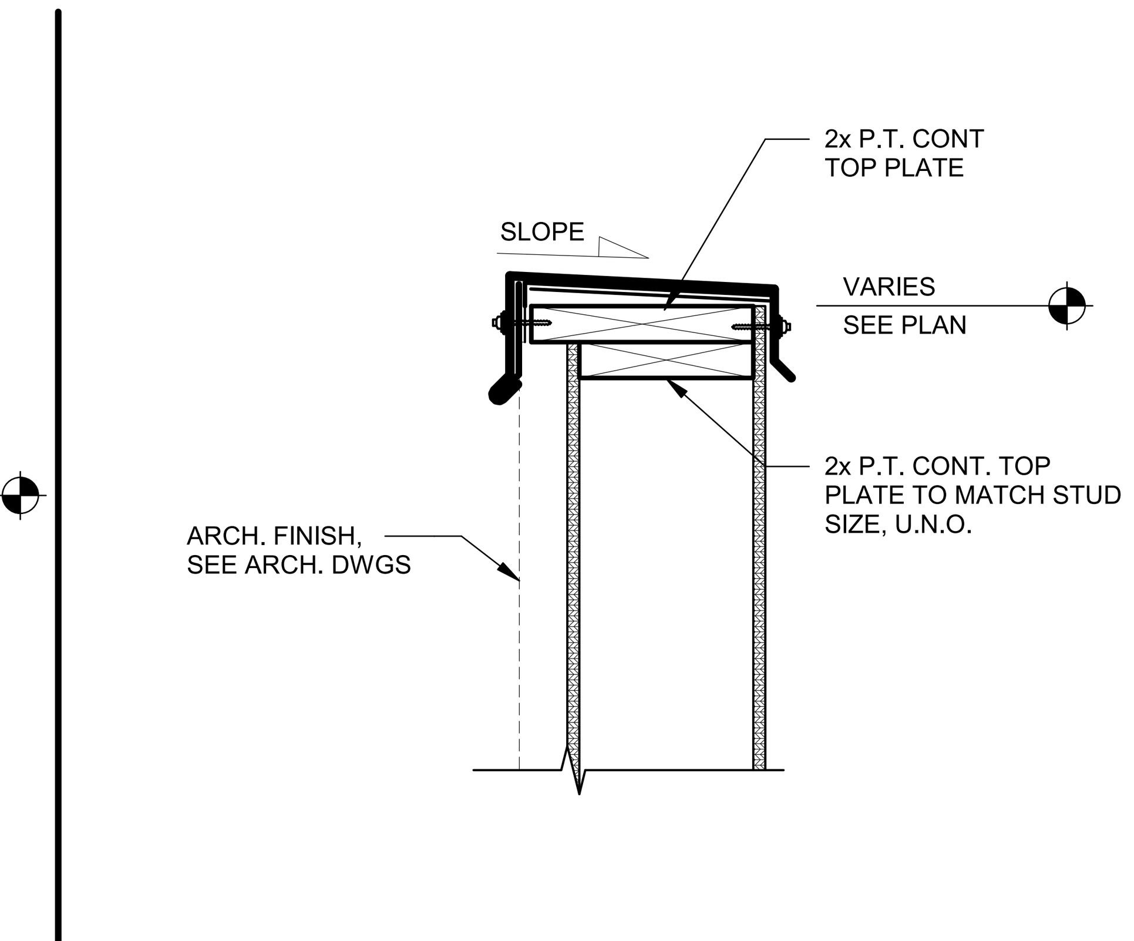
TIE-ROD BLOCKING 3" = 1'-0" **13**



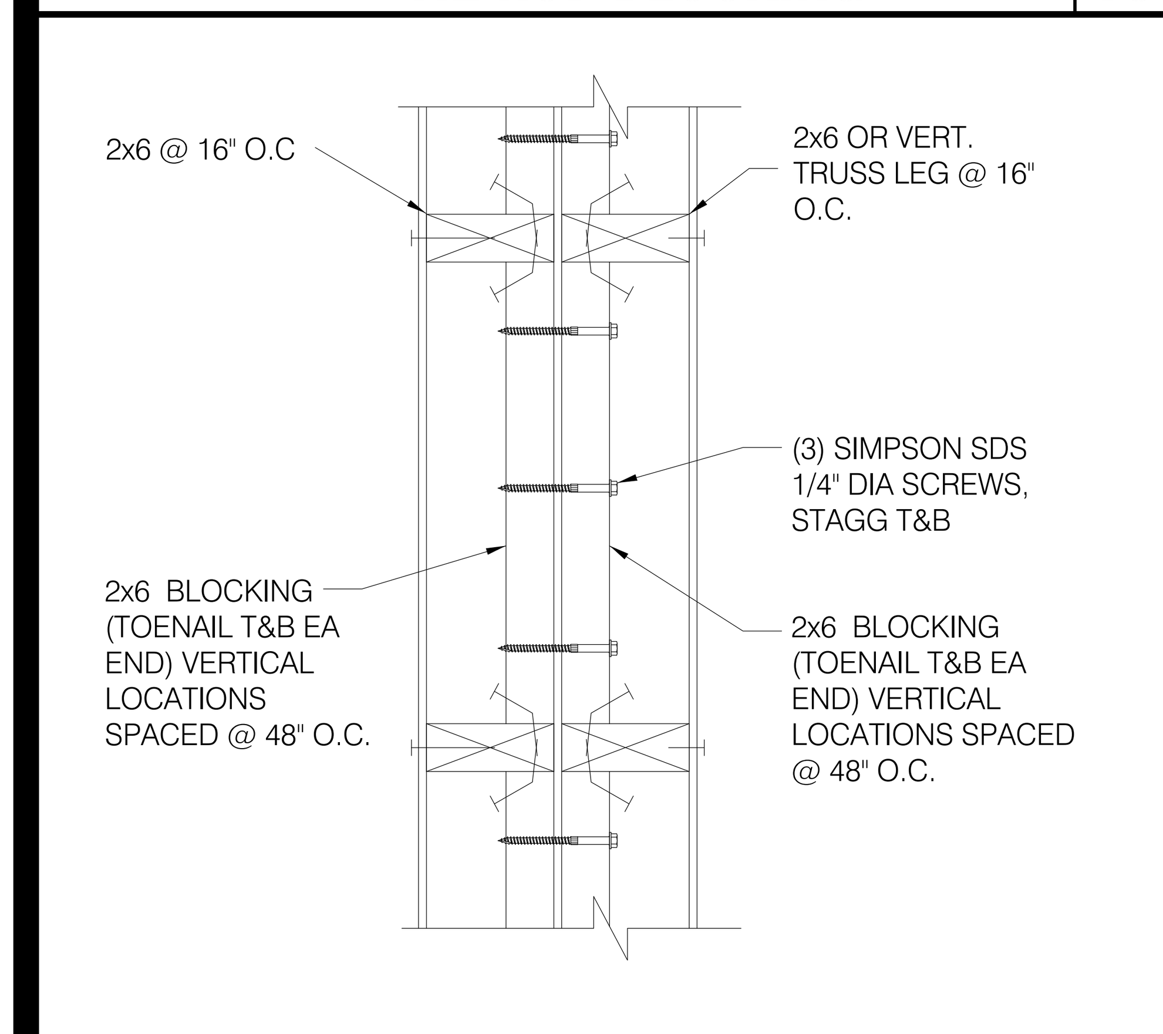
SECTION AT COOLER SIDES 1 1/2" = 1'-0" **9**



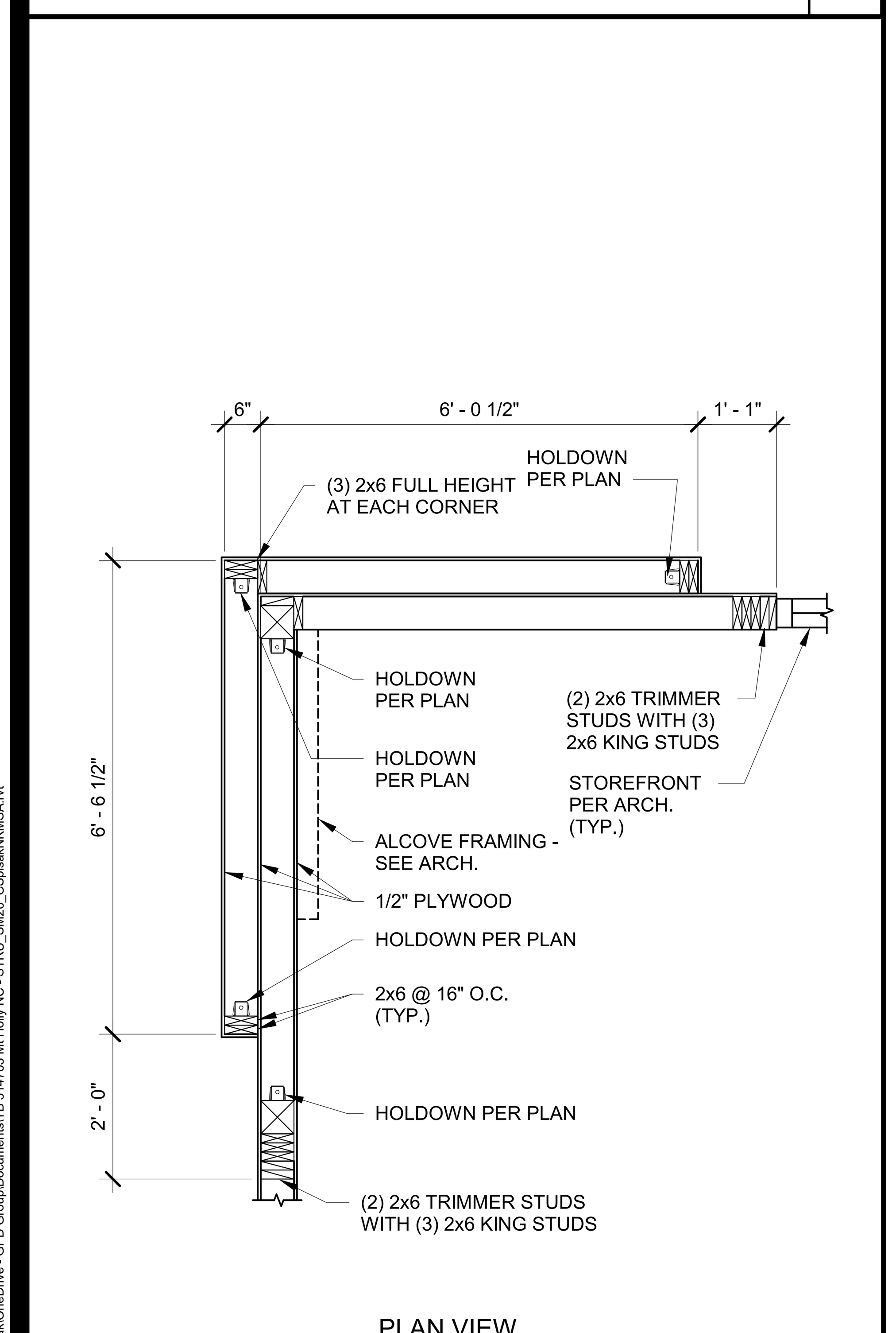
SECTION AT COOLER REAR 1 1/2" = 1'-0" **5**



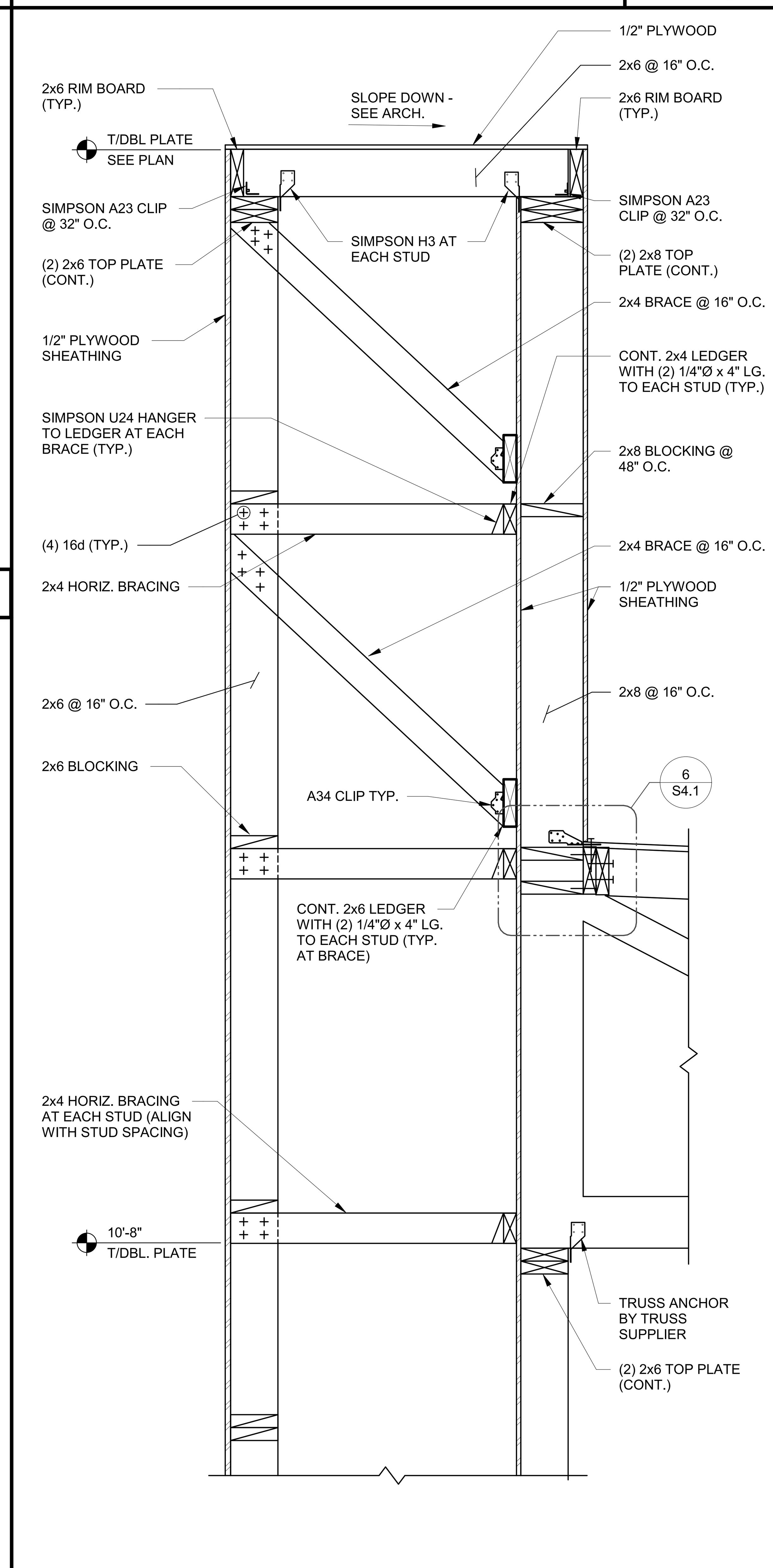
TYPICAL PARAPET CAP 1 1/2" = 1'-0" **1**



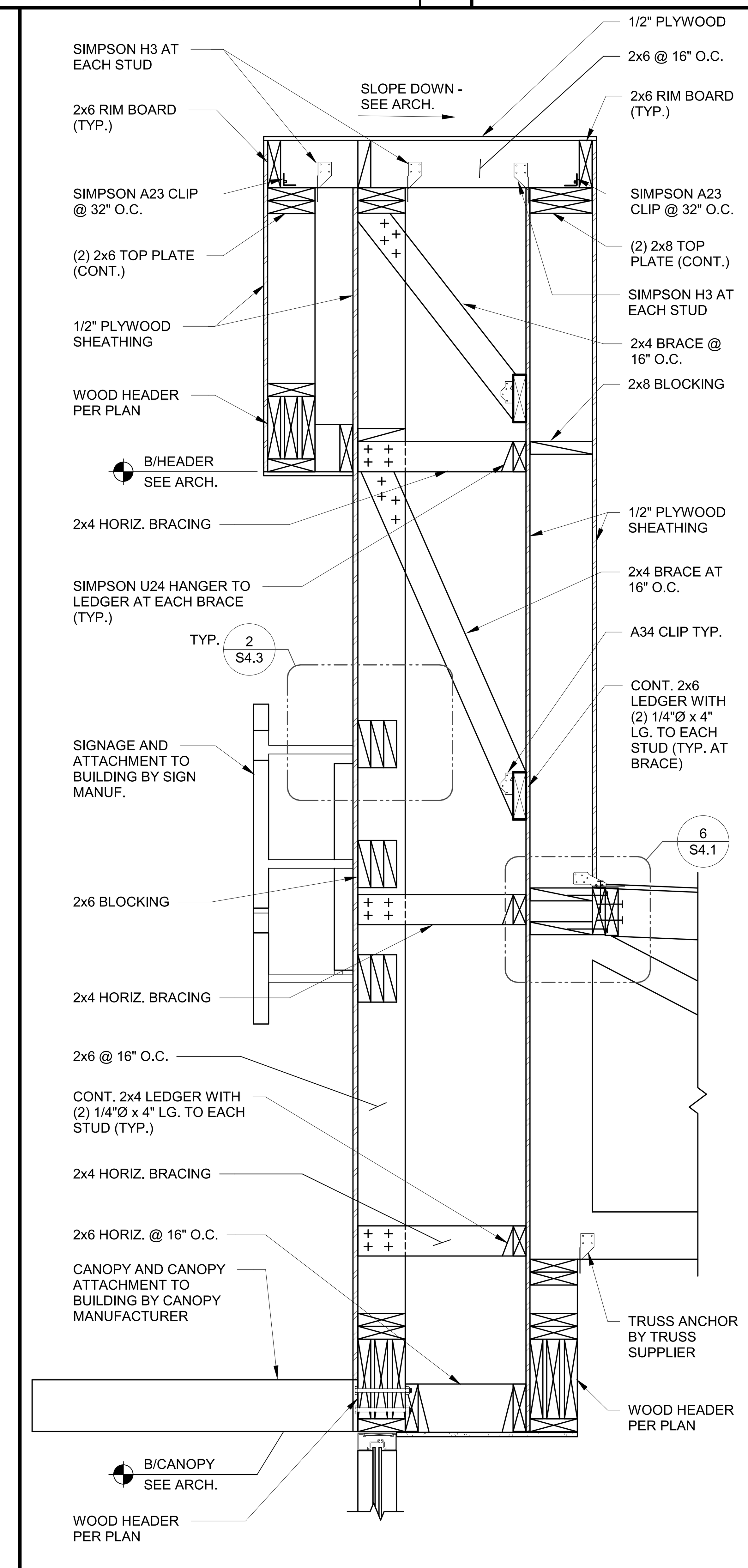
WALL DETAIL (PLAN VIEW) **14**



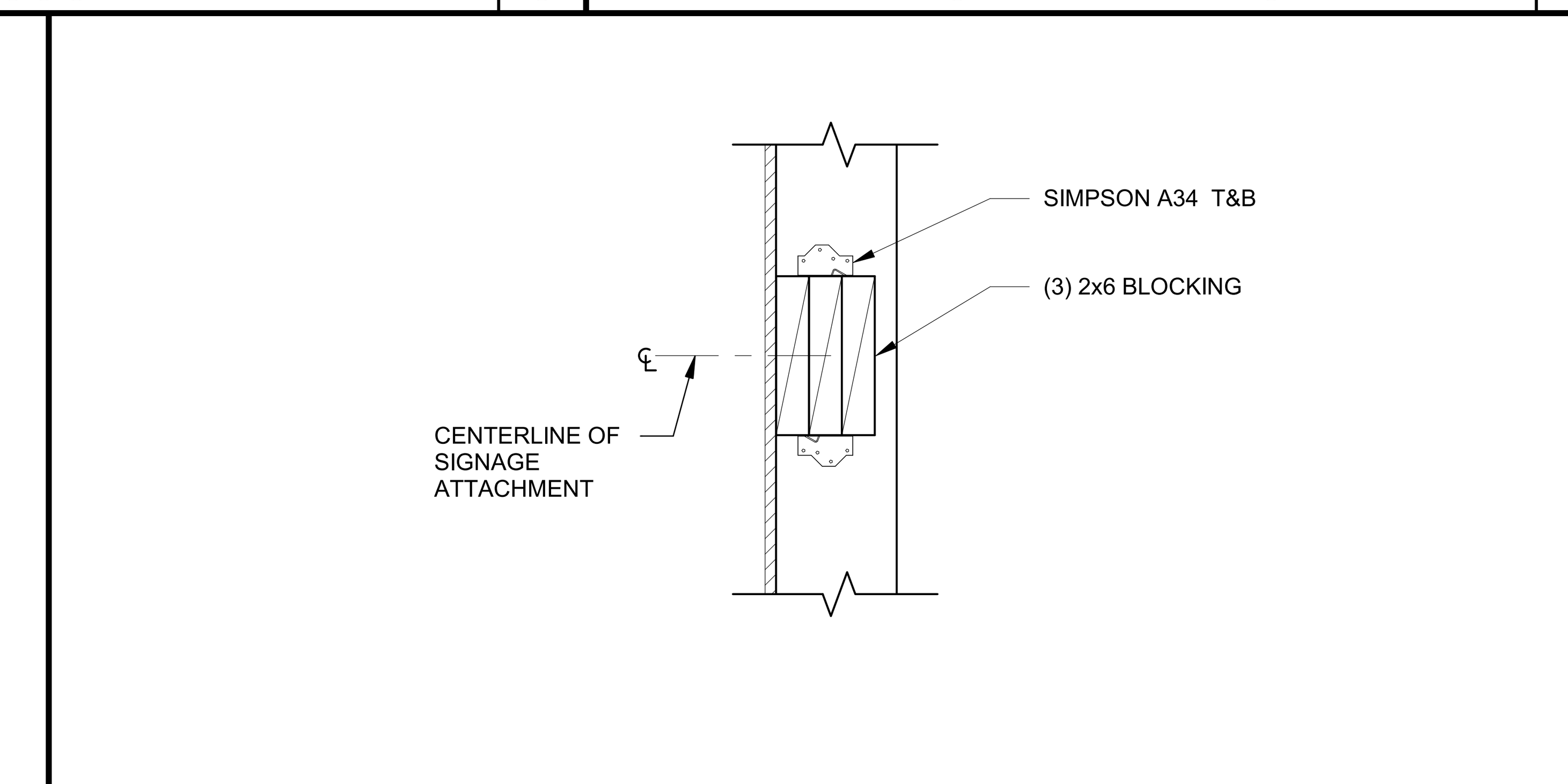
FRONT TOWER FRAMING 1/2" = 1'-0" **20**



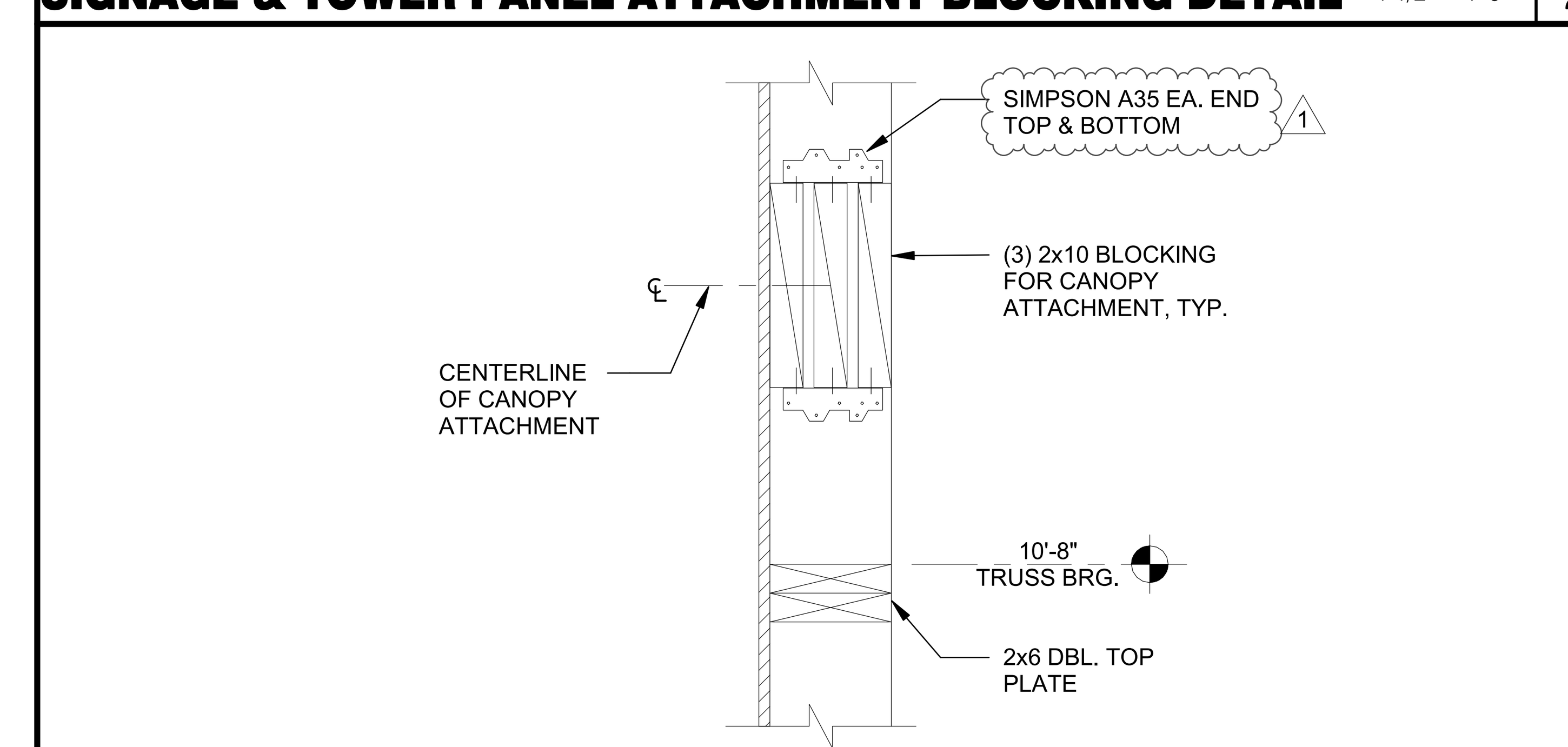
SECTION AT SIDE TOWER 1" = 1'-0" **12**



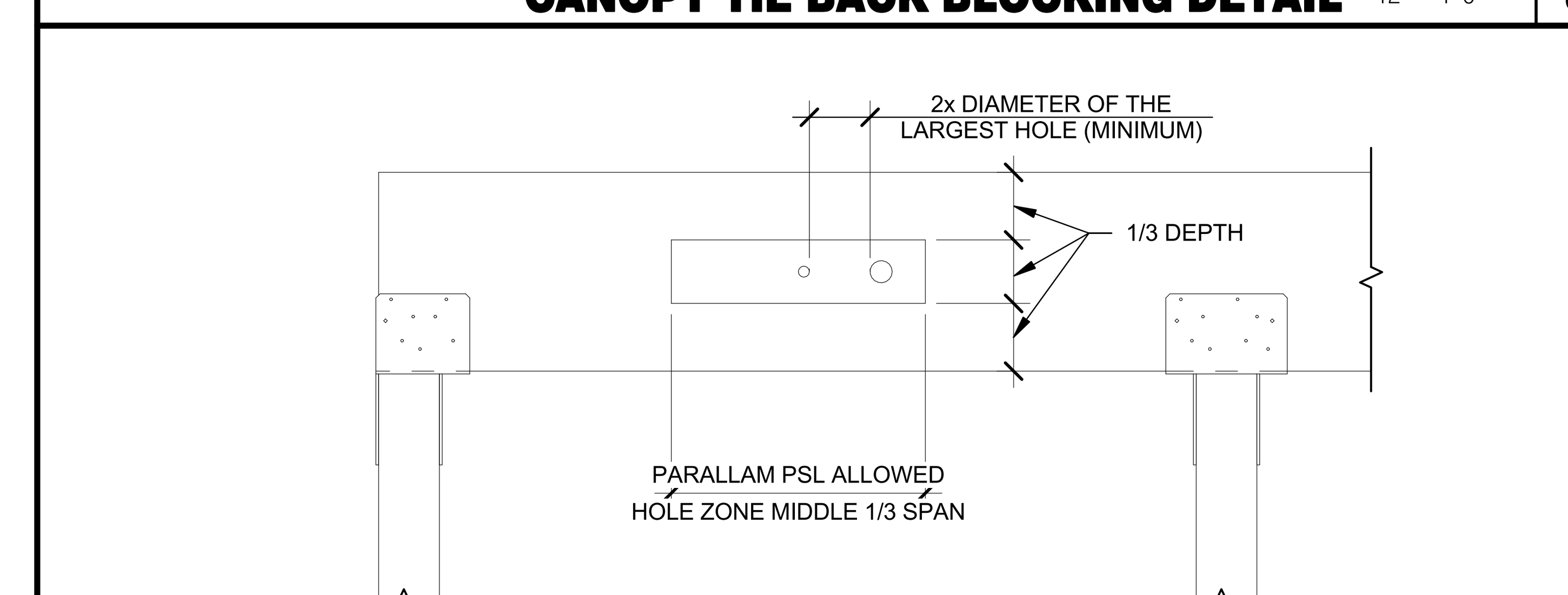
SIDE ENTRY TOWER FRAMING 1" = 1'-0" **6**



SIGNAGE & TOWER PANEL ATTACHMENT BLOCKING DETAIL 1 1/2" = 1'-0" **2**



CANOPY TIE BACK BLOCKING DETAIL 12" = 1'-0" **3**



NOTES:

ALLOWED HOLE SIZE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM LOADS ONLY.

ROUND HOLES ONLY.

NO HOLES IN CANTILEVERS.

NO HOLES IN HEADERS OR BEAMS ORIENTATED FLATWISE.

HEADER OR BEAM DEPTH	MAXIMUM ROUND HOLE SIZE
4 3/8"	1"
5 1/2"	1 3/4"
7 1/4"-20"	2"

PSL BEAM PENETRATION DETAIL 3/4" = 1'-0" **4**

GPD Engineering and Architecture Professional Corporation - C3879

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
1	03.29.22	Building Comments
	04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RB
JOB NO.:	2020088.07

TACO BELL

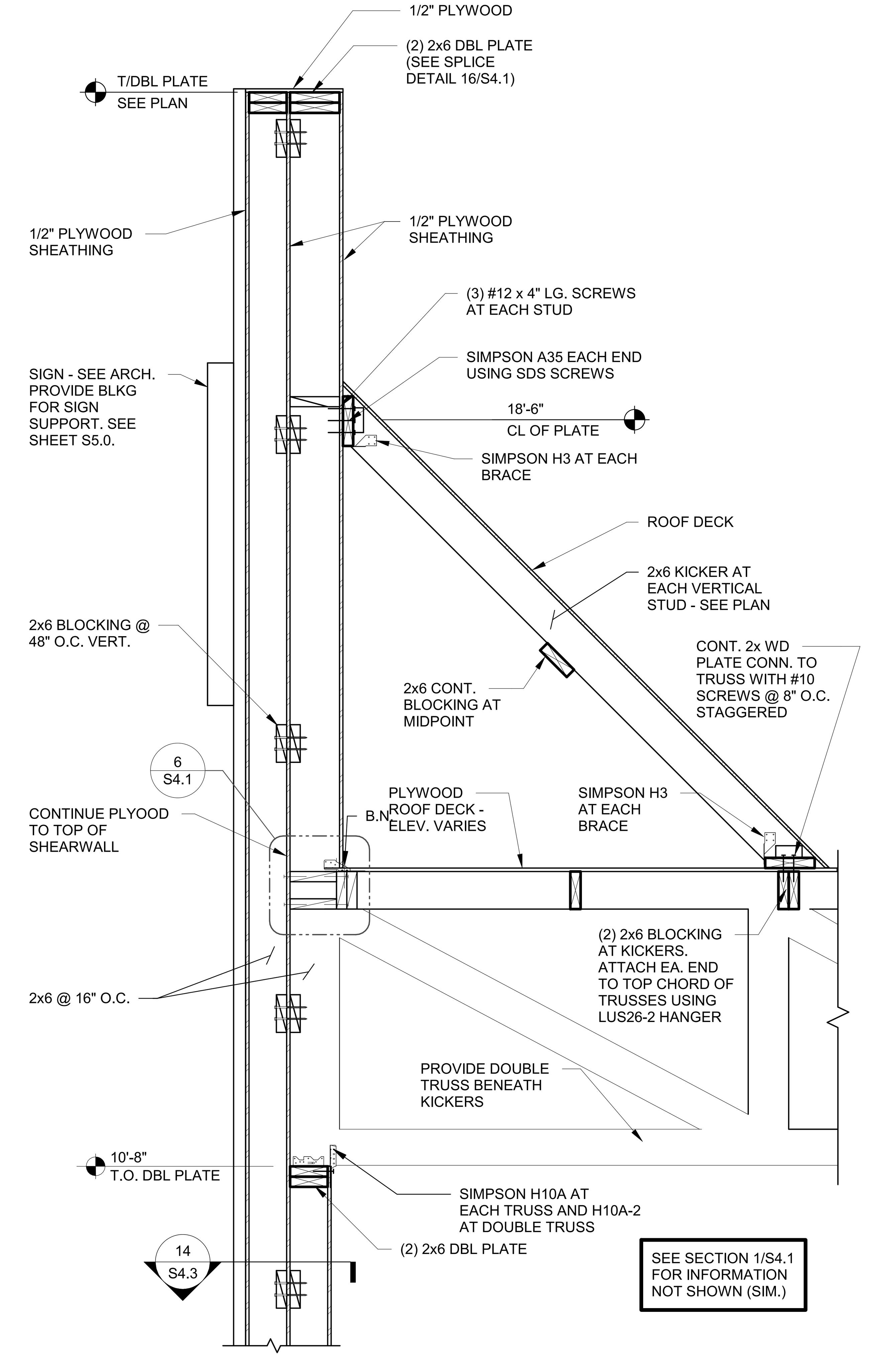
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

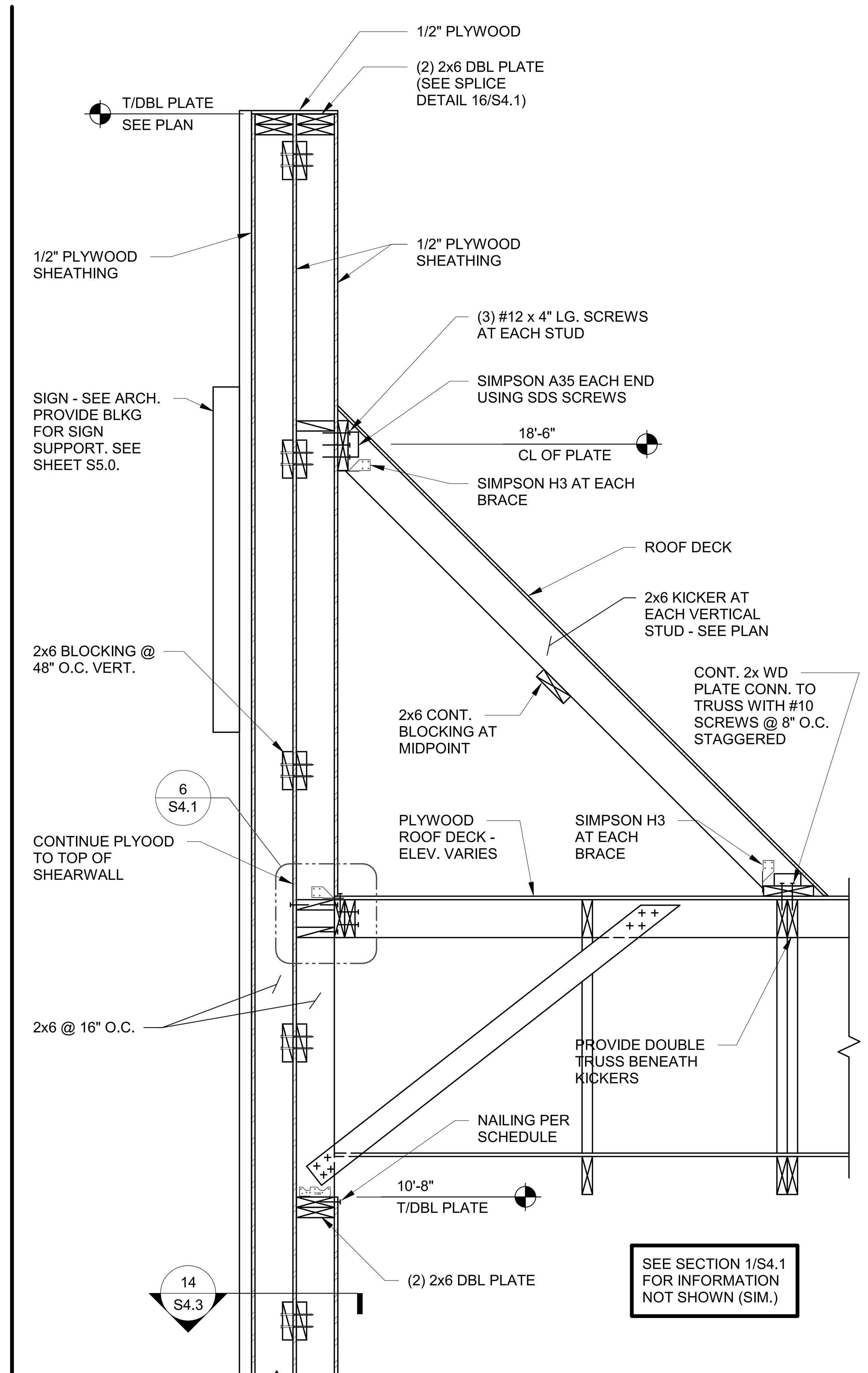
STRUCTURAL DETAILS

S4.3

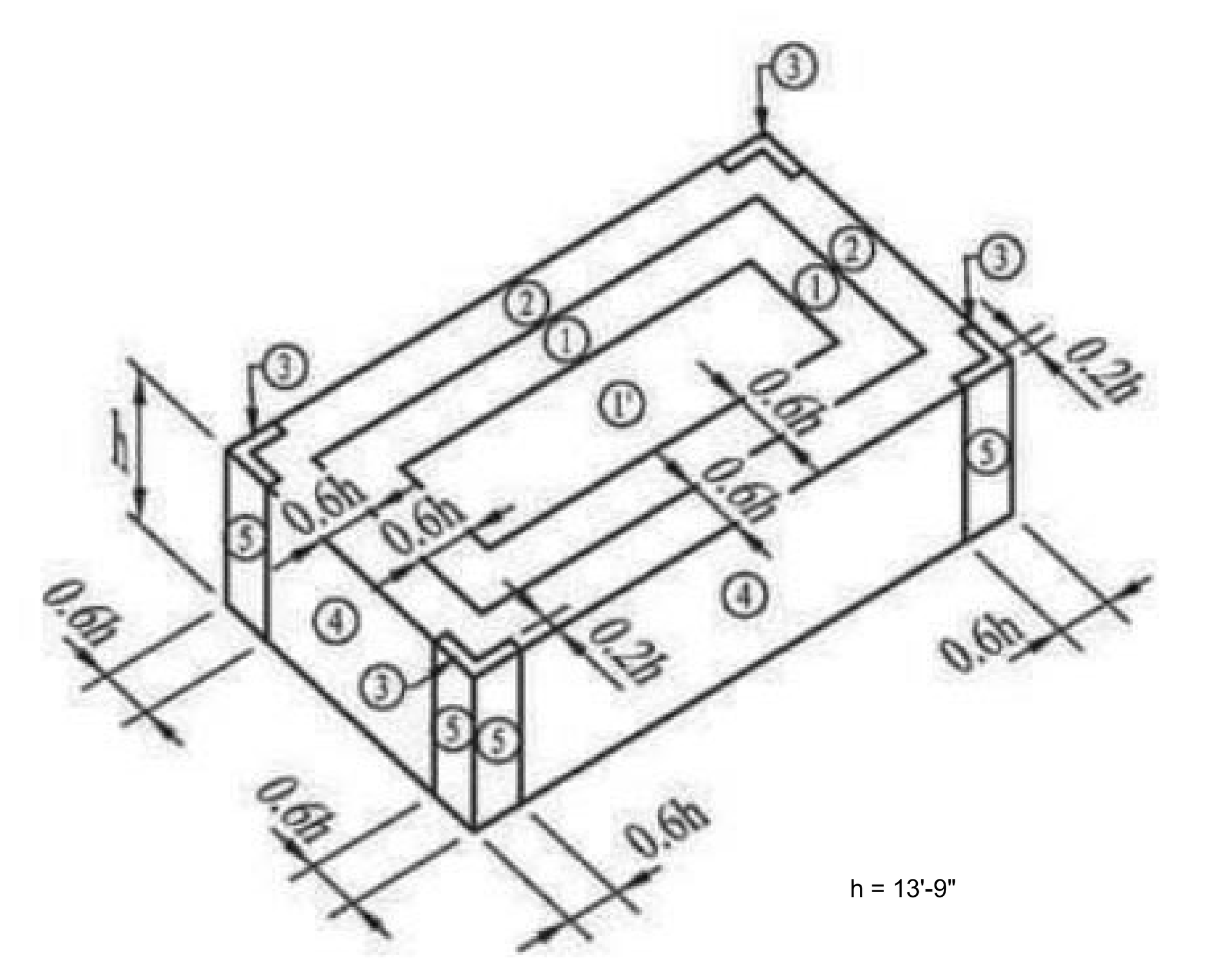
PLOT DATE: 3/31/2022 12:07:35 PM



TOWER SECTION 3/4" = 1'-0" **5**



TOWER SECTION 3/4" = 1'-0" **1**



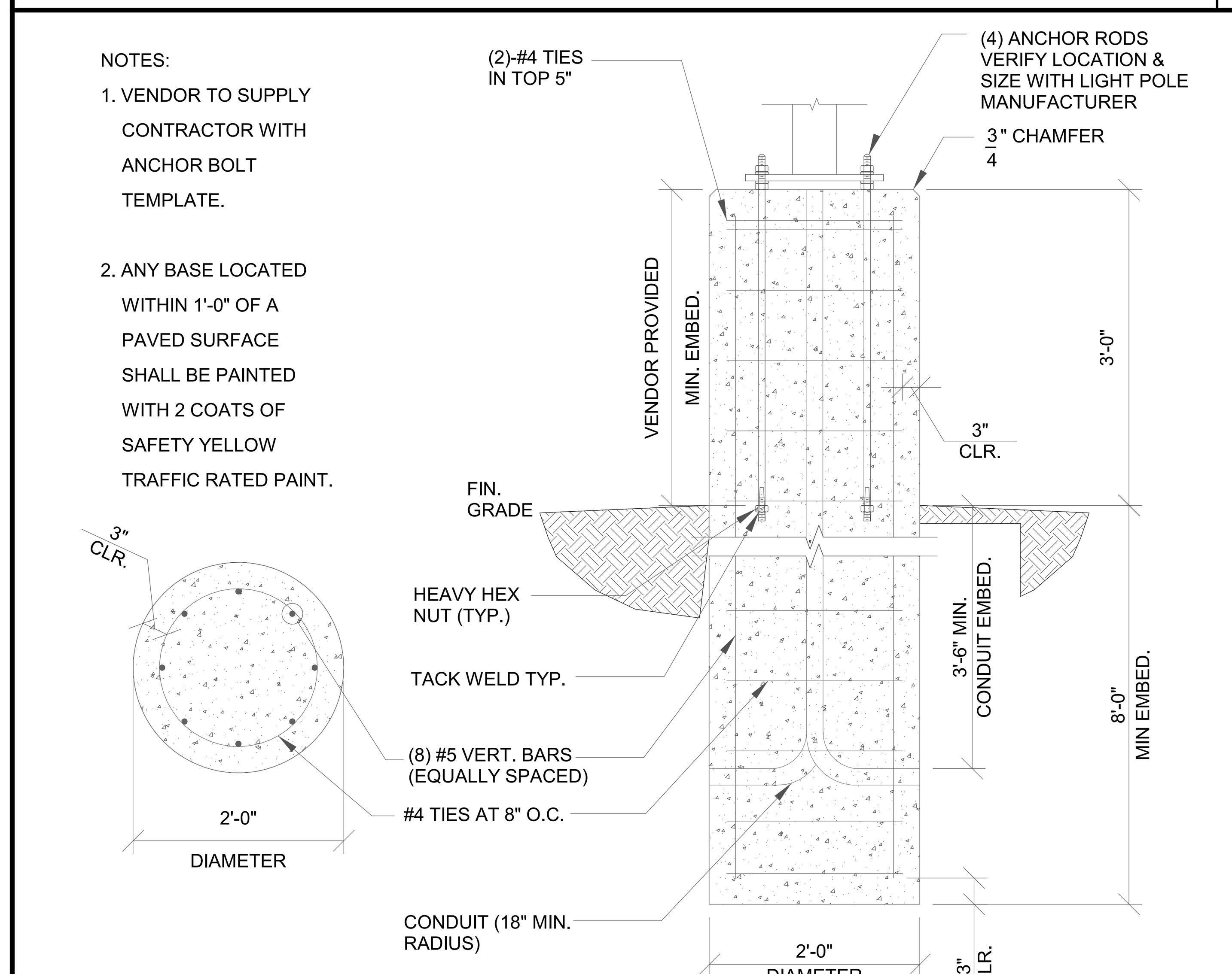
COMPONENT AND CLADDING WIND LOAD SCHEDULE ULTIMATE PRESSURES, PSF						
	ROOF				WALL	
EFFECTIVE WIND AREA (SQ. FT.)	CORNER ZONE (PSF) 3	END ZONE (PSF) 2	INTERIOR ZONE (PSF) 1	INTERIOR ZONE (PSF) 1'	END ZONE (PSF) 5	INTERIOR ZONE (PSF) 4
≤ 10	+16/-46	+16/-46	+16/-35	+16/-20	+20/-27	+20/-22
50	+16/-40	+16/-40	+16/-30	+16/-20	+18/-23	+18/-20
100	+16/-37	+16/-37	+16/-27	+16/-20	+17/-21	+17/-19

"+" INDICATES PRESSURE ACTING TOWARD EXTERIOR FACE
"-" INDICATES PRESSURE ACTING AWAY FROM EXTERIOR FACE

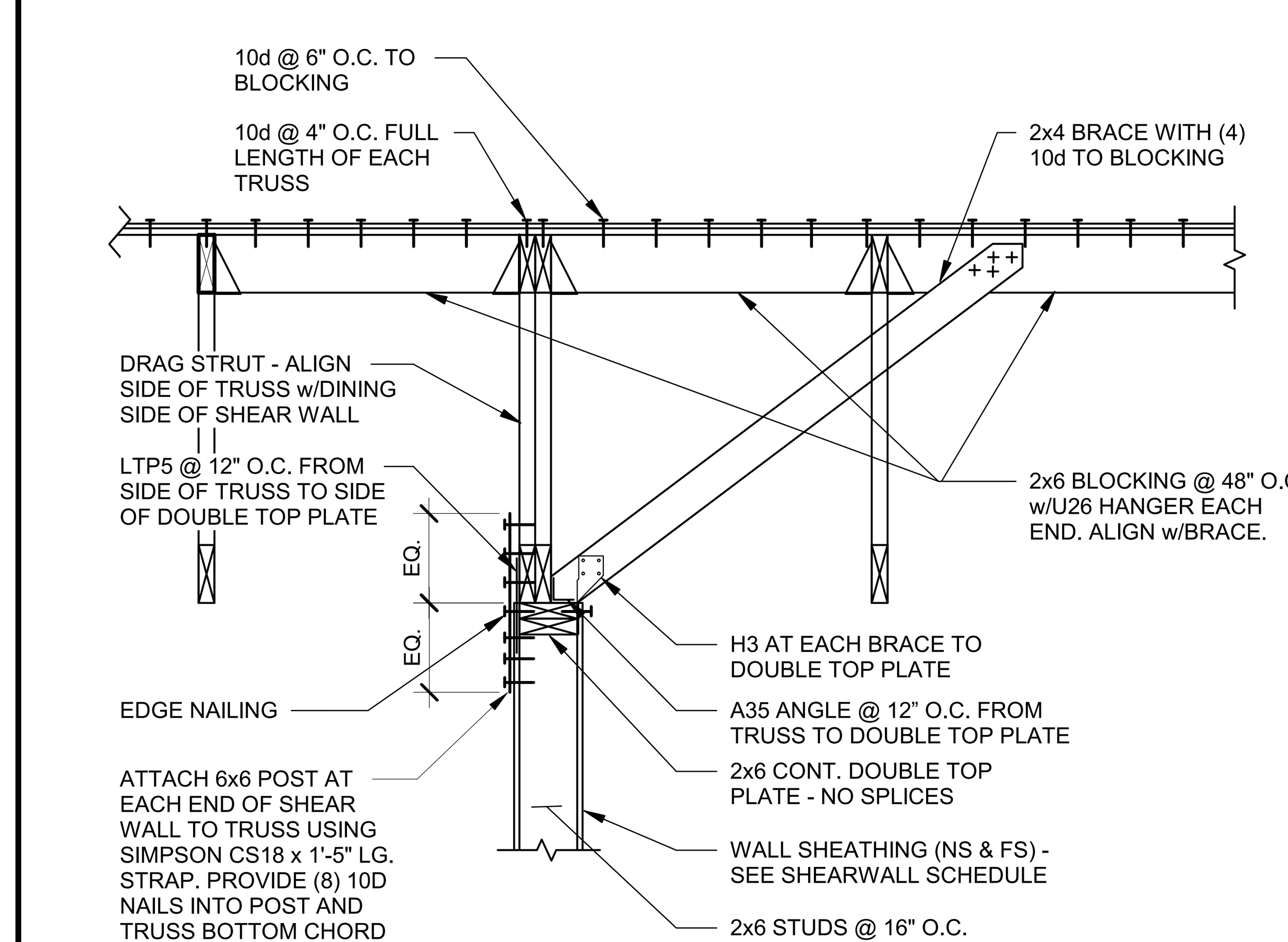
WIND LOAD TABLE AND DIAGRAM 12" = 1'-0" **4**

NOTES:

1. VENDOR TO SUPPLY CONTRACTOR WITH ANCHOR BOLT TEMPLATE.
2. ANY BASE LOCATED WITHIN 1'-0" OF A PAVED SURFACE SHALL BE PAINTED WITH 2 COATS OF SAFETY YELLOW TRAFFIC RATED PAINT.



LIGHT POLE FOUNDATION DETAIL 3/4" = 1'-0" **3**



INTERIOR SHEAR WALL 3/4" = 1'-0" **2**

GPD Engineering and Architecture Professional Corporation - C3879
520 S. MAIN STREET, SUIT 2531
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	DATE	REMARKS
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1	03.29.22	Building Comments
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CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RB
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

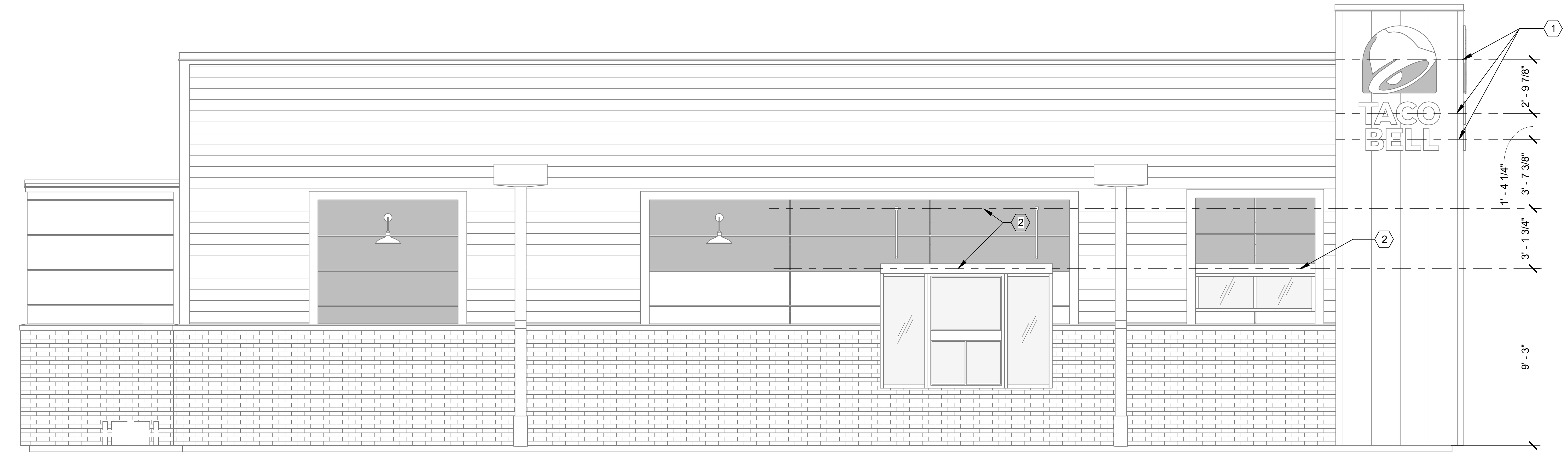
ENDEAVOR 2.0

STRUCTURAL SECTIONS

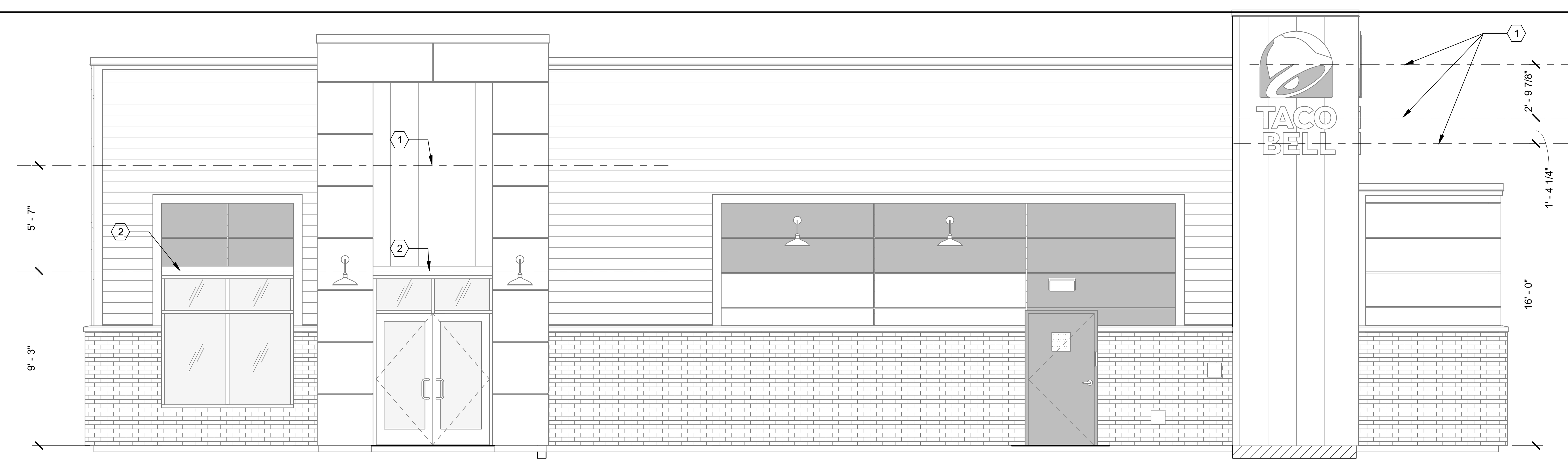
S4.4

PLOT DATE: 3/31/2022 12:07:36 PM

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

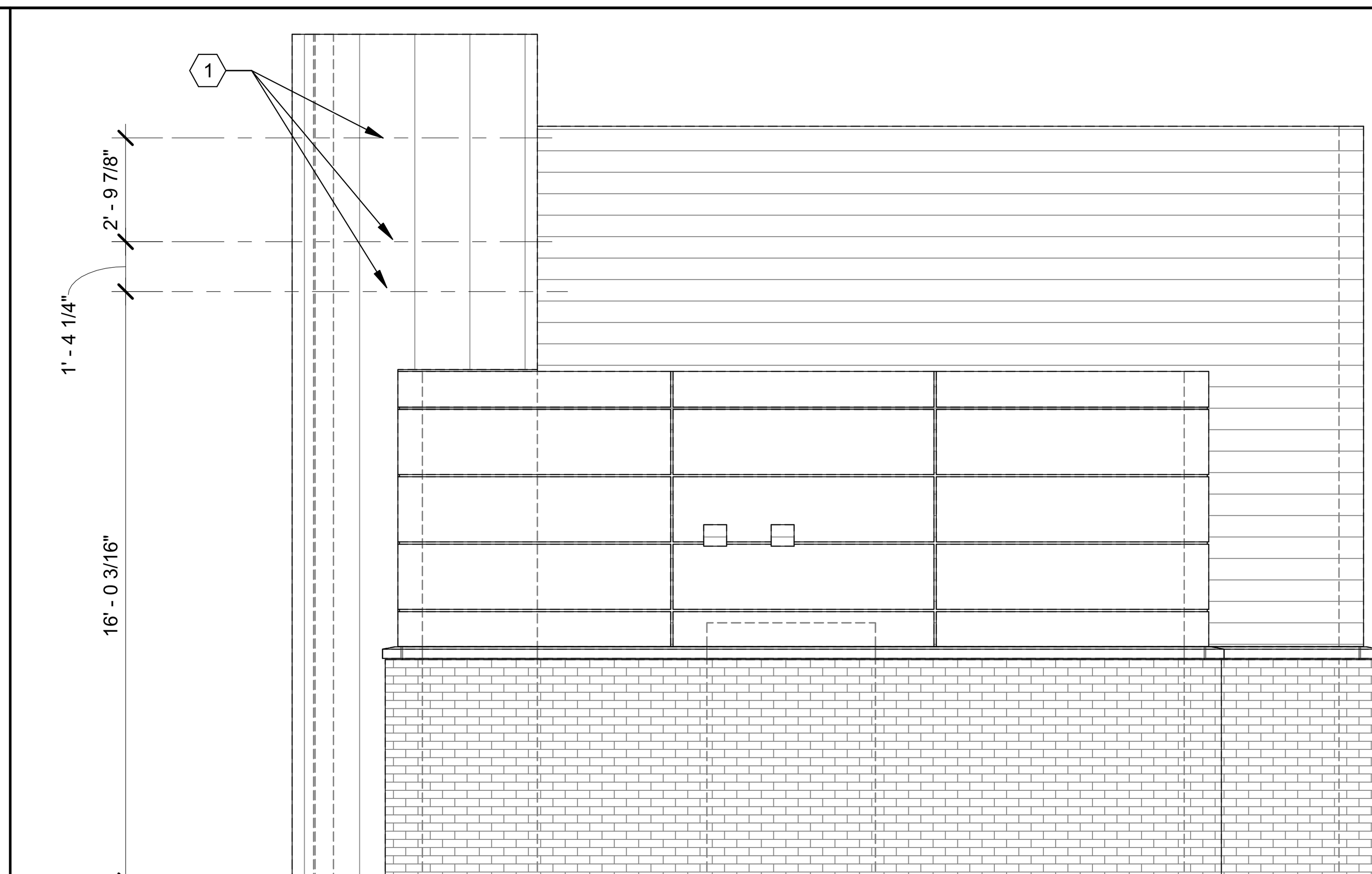


NORTH ELEVATION 1/4" = 1'-0" A



SOUTH ELEVATION 1/4" = 1'-0" B

EAST ELEVATION 1/4" = 1'-0" F



REAR TOWER ELEVATION 1/4" = 1'-0" E

(1) SOLID BLOCKING FOR FASTENERS AS REQUIRED FOR SIGN MOUNTING.

(2) PROVIDE BLOCKING FOR CANOPY. SEE DETAILS 3/S4.3 AND 13/S4.3.

KEY NOTES C

1. EXTEND BLOCKING AS REQUIRED TO FIT BETWEEN STUDS.
2. ELEVATION AT BOTTOM OF CANOPIES SHALL BE 9'-0" A.F.F. U.N.O.
3. COORDINATE SIGNAGE ELEMENTS AND BLOCKING REQUIREMENTS WITH SIGNAGE VENDOR - SEE SCOPE OF WORK.
4. THIS SHEET IS TO INDICATE BLOCKING REQUIREMENTS FOR SIGNS, AWNINGS, AND CANOPIES. ADDITIONAL BLOCKING IS REQUIRED FOR OTHER ITEMS AS SHOWN ON OTHER DRAWINGS.

GENERAL NOTES D

GPD Engineering and Architecture Professional Corporation - C3879

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JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

CANOPY/AWNING BLOCKING ELEVATIONS

S5.0

PLOT DATE: 3/31/2022 12:07:39 PM

C:\Users\cspisak\OneDrive - GPD Group\GroupDocuments\TB 314703 Mt Holly NC - STRU_SM20_CSpisakNKMSA.rvt

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

CITY OF MOUNT HOLLY GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CITY OF MOUNT HOLLY AND NCDOT STANDARDS EXCEPT AS MODIFIED HEREIN OR AS DIRECTED BY THE CITY.
2. ALL EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MOST CURRENT NCDENR AND GASTON COUNTY NATURAL RESOURCE STANDARDS. EROSION CONTROL MEASURES SHALL BE REMOVED AT PROJECT COMPLETION WHEN DEEMED NO LONGER NECESSARY BY THE GASTON COUNTY INSPECTOR. ALL GRADED AREAS NOT UNDER PAVEMENT AND WITHIN THE RIGHT-OF-WAY OR EASEMENTS SHALL BE PREPARED, FERTILIZED AND LIMED, SEEDED, AND MULCHED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
3. ALL STORM DRAIN PIPE WITHIN PUBLIC RIGHTS-OF-WAYS AND/OR PUBLIC DRAINAGE EASEMENTS ACCEPTED FOR MAINTENANCE BY THE CITY SHALL BE A MINIMUM CLASS III 12" REINFORCED CONCRETE UNLESS OTHERWISE APPROVED AND NOTED.
4. ALL WATER MAINS 6" AND LARGER SHALL BE DUCTILE IRON, PRESSURE CLASS 350. THE CITY INSPECTOR SHALL BE PRESENT FOR ALL TESTING OF WATER LINE INSTALLATIONS AND CONSTRUCTION.
5. ALL SEWER LINES 8-INCHES AND LARGER SHALL BE PVC SDR 35 THE CITY INSPECTOR SHALL BE PRESENT FOR ALL TESTING OF SEWER LINE INSTALLATIONS AND CONSTRUCTION.
6. ALL DRAINAGE STRUCTURES MUST MEET NCDOT STANDARDS. SOLID WALL, PRE-CAST CONCRETE STRUCTURES CONFORMING TO NCDOT STANDARDS ARE ACCEPTABLE (NO WAFFLE WALLS). ALL PIPE OPENINGS IN PRE-CAST STRUCTURES MUST BE CAST OR CORED. PRECAST STRUCTURES SHALL BE STAMPED BY THE MANUFACTURER AS NCDOT APPROVED. THE INVERT OF ALL DRAINAGE STRUCTURES SHALL BE FORMED OF CONCRETE SUCH THAT NO STANDING WATER IS POSSIBLE.
7. STABILIZING STONE, GEOTEXTILES, OR OTHER APPROVED STABILIZATION OPTIONS SHALL BE PLACED AS REQUIRED BY THE CITY WHEN CONDITIONS WARRANT. UNDER DRAINS SHALL BE CONSTRUCTED AS REQUIRED BY THE CITY TO STABILIZE SUBGRADE.
8. COMPACTION TESTS BY AN INDEPENDENT TESTING LAB SHALL BE MADE AT OWNER'S EXPENSE AND THE REPORT SUBMITTED TO THE CITY. RANDOM STONE BASE TESTS SHALL BE TAKEN EVERY 150-FT. AND IN CUL-DE-SACS OR AS DIRECTED BY CITY INSPECTORS. THE STONE BASE SHALL BE COMPACTED TO 100% OF THE MAXIMUM DENSITY OBTAINABLE WITH THE MODIFIED PROCTOR TEST. WHEN COMPLETED, THE BASE COURSE SHALL BE SMOOTH, HARD, DENSE, UNYIELDING AND WELL BONDED.
9. THE STONE BASE PROOF ROLL SHALL BE SCHEDULED AND PERFORMED WITH CITY INSPECTORS. AT THE TIME OF PAVING, EDGES AND MANHOLES/STRUCTURES SHALL ALREADY BE TRIMMED TO THE PROPER DEPTH AND ALL DEBRIS AND LOOSE STONE REMOVED.
10. PROOFROLLING OF SUBGRADE AND STONE BASE SHALL BE PERFORMED IN THE PRESENCE OF THE CITY INSPECTOR USING AN OVER LOADED (ON-SITE) TRIAXLE DUMP WITH 22-25 TONS OF STONE, THIRD AXLE LIFTED. IF RAIN OCCURS BEFORE PLACING STONE ON SUBGRADE THAT HAS BEEN PROOFROLLED, OR IF RAIN OCCURS PRIOR TO PLACING ASPHALT ON STONE BASE THAT HAS BEEN PROOFROLLED, THE SUBGRADE AND STONE BASE MUST BE PROOFROLLED AGAIN AS DIRECTED BY THE CITY
11. CONTRACTOR OR OWNER SHALL SUBMIT A REPORT OF THE RANDOM SOIL COMPACTION TESTS PERFORMED EVERY 150-FT. AND IN CUL-DE-SACS OR AS DIRECTED BY THE CITY INSPECTOR. ONCE SOIL TESTING REPORTS ARE SUBMITTED AND THE INFRASTRUCTURE SUITABLE FOR PAVEMENT, THE CONTRACTOR OR OWNER SHALL SCHEDULE A SUBGRADE PROOFROLL WITH THE CITY INSPECTOR.
12. PRIME COAT IS TO BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD AS DIRECTED BY THE CITY INSPECTOR.
13. EXISTING CURB AND GUTTER AND PAVEMENT SHALL BE REPLACED OR REPAIRED AS REQUIRED TO TIE ON TO SOUND MATERIAL.
14. ANY REQUIRED STORM DRAINAGE CONSTRUCTION OR RECONSTRUCTION ASSOCIATED WITH THIS PLAN SHALL BE PERFORMED AT OWNER'S EXPENSE.
15. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ALL CONSTRUCTION MUST CONFORM TO THE UNDERGROUND UTILITY PROTECTION ACT.
16. WHEELCHAIR RAMPS WITH TRUNCATED DOMES (BLACK PAVER TYPE) ARE REQUIRED WHERE SIDEWALKS INTERSECT CURB AND GUTTER.
17. WATER AND SEWER BUILDING CONNECTIONS SHALL BE INSTALLED TO THE RIGHT-OF-WAY LINE, SPACED AT 30' CENTER TO CENTER, AND SHALL NOT BE PLACED IN DRIVEWAYS OR SIDEWALKS. WATER AND SEWER CONNECTIONS SHALL BE STAMPED INTO THE CURB AT THE EXACT LOCATION OF THE CROSSING ("W" FOR WATER, "S" FOR SEWER). ALL VALVES SHALL BE INDICATED BY A "V" STAMPED IN THE CURB AT A POINT CLOSEST TO THE VALVE.
18. FOR STANDARD CURB AND GUTTER STREETS, HYDRANTS SHALL BE PLACED 1-FOOT, 2-INCHES BEHIND BACK OF CURB (MEASURING TO CENTER OF HYDRANT). FOR VALLEY CURB AND GUTTER STREETS, HYDRANTS SHALL BE PLACED BEHIND THE SIDEWALK.
19. THE CITY INSPECTOR MUST BE PRESENT FOR ALL SUBGRADE PREPARATION, STONE BASE AND ASPHALT PAVING
20. FOR ALL RESIDENTIAL STREETS, THE FINAL 1½-INCH OF PAVEMENT IS NOT TO BE PLACED UNTIL AFTER 80% OF THE HOMES ARE CLOSED WITHIN THE SUBJECT PHASE. THE FINAL 1½ INCHES OF PAVING IS NOT TO BE PLACED FOR STREETS THAT WILL BE USED TO ACCESS FUTURE PHASES.
21. ASPHALT SHALL BE TEMPORARILY RAMPED AROUND STRUCTURES TO PREVENT DAMAGE PRIOR TO FINAL PAVING. THE TEMPORARY ASPHALT SHALL BE REMOVED JUST PRIOR TO THE FINAL PAVING. THE STREET SHALL BE INSPECTED BY THE CITY PRIOR TO THE FINAL PAVING. ANY CRACKED, SETTLED, OR OTHER DAMAGED PAVEMENT SECTIONS SHALL BE REPAIRED PRIOR TO FINAL PAVING.
22. THE CONTRACTOR SHALL PERFORM QUALITY CONTROL ON ASPHALT BY PERFORMING A MINIMUM OF FIVE (5) RANDOM DENSITY TESTS PER 2,000 LF. COMPACTION HAS TO MEET NCDOT REQUIREMENTS. SUPERPAVE MIXES ARE TO BE COMPACTED 92.0% OF THE MAXIMUM SPECIFIC GRAVITY (90% FOR SF9.5A MIXES). RESULTS TO BE SUBMITTED TO THE CITY THE FOLLOWING DAY.
23. PAVING REQUIREMENTS: SF9.5A; S9.5A & B; MINIMUM AIR TEMPERATURE IS 40 DEG WITH A MINIMUM ROAD SURFACE OF 50 DEG AND RISING. S9.5C; 12.5 C & D; MINIMUM AIR TEMPERATURE OF 50 DEG WITH A MINIMUM ROAD SURFACE OF 50 DEG AND RISING
24. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC
25. PRIOR TO FINAL ACCEPTANCE, THE DEVELOPER SHALL ULTIMATELY BE RESPONSIBLE FOR CORRECTING OR SEEING TO THE CORRECTION OF ALL PROBLEMS ASSOCIATED WITH THE PROJECT, INCLUDING THOSE ITEMS NOT NECESSARILY COVERED BY THE PLANS, TO INSURE THE SATISFACTORY COMPLETION OF THE TOTAL PROJECT.
26. FINAL PAVING SHALL NOT BE PLACED ON STREETS THAT WILL BE USED TO ACCESS FUTURE PHASES.
27. ALL STORM DRAINAGE PIPE WITHIN INLETS AND MANHOLES SHALL BE CUT FLUSH WITH THE INLET WALLS

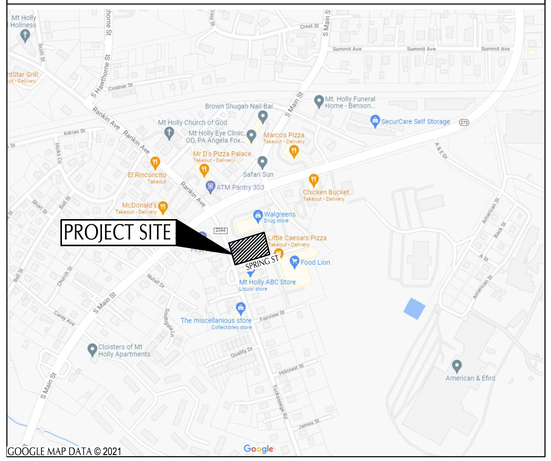
IMPROVEMENT PLANS

TACO BELL

109 TUCKASEEGE ROAD
MOUNT HOLLY, NC 28120
OCTOBER 2021

VICINITY MAP SCALE: 1" = 500'

NORTH



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AS-BUILT DRAWINGS

CONTRACTOR SHALL PRODUCE AND CERTIFY AS-BUILT DRAWINGS PER CITY ORDINANCE AS-BUILT SECTIONS AND AS-BUILT APPENDIX IN THE CITY OF MOUNT HOLLY SUBDIVISION AND LAND DEVELOPMENT ORDINANCES. AS-BUILT PLANS SHALL BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF ANY CONSTRUCTION PROJECT.

CONTRACTOR SHALL OBTAIN AND USE THE MOST RECENT VERSION OF THE CITY OF MOUNT HOLLY SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

PLAN REPRODUCTION WARNING

THE PLANS HAVE BEEN PREPARED FOR PRINTING ON ANSI D (22"x34") SHEETS. PRINTING ON OTHER SIZE SHEETS MAY DISTORT SCALES. REFER TO GRAPHIC SCALES.

OWNER
TACO BELL CORP.
CHAD GORNALL, ASSOCIATE CONSTRUCTION MANAGER
1 GLEN BELL WAY
IRVINE, CA 92618
814.572.4800
CHAD.GORNALL@YUM.COM

ENGINEER
GPD GROUP
LEONARDO SFERRA
520 SOUTH MAIN STREET, SUITE 2531
AKRON, OHIO 44311
330.572.2100

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED PLANNING AND DEVELOPMENT DEPARTMENT DATE:

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

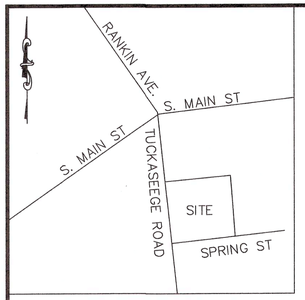
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

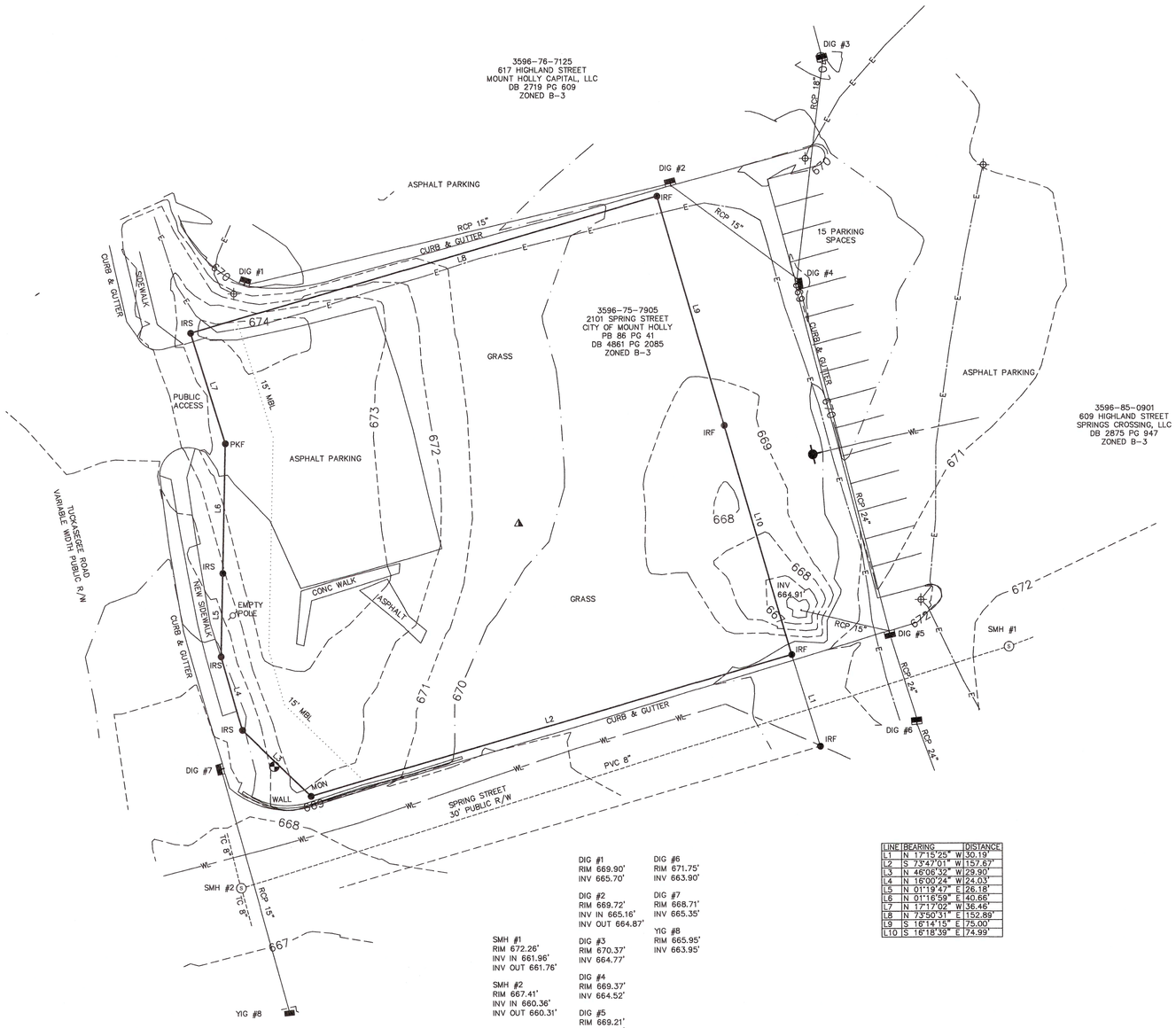
TITLE SHEET

TS-001

PLOT DATE:



VICINITY MAP
NTS



LINE	BEARING	DISTANCE
L1	N 17°15'25" W	30.19'
L2	S 73°47'01" W	157.67'
L3	N 46°06'32" W	29.90'
L4	N 16°00'24" W	24.03'
L5	N 01°19'47" E	26.18'
L6	N 01°16'59" E	40.66'
L7	N 17°17'02" W	36.46'
L8	N 73°50'31" E	152.89'
L9	S 16°14'15" E	75.00'
L10	S 16°18'39" E	74.99'

SMH #1
RIM 672.26'
INV IN 661.96'
INV OUT 661.76'

SMH #2
RIM 667.41'
INV IN 660.36'
INV OUT 660.31'

DIG #1
RIM 669.90'
INV 665.70'

DIG #2
RIM 669.72'
INV IN 665.16'
INV OUT 664.87'

DIG #3
RIM 670.37'
INV 664.77'

DIG #4
RIM 669.37'
INV 664.52'

DIG #5
RIM 669.21'
INV 663.82'

DIG #6
RIM 671.75'
INV 663.90'

DIG #7
RIM 668.71'
INV 665.35'

YIG #8
RIM 665.95'
INV 663.95'

LEGEND:

IRS	IRON ROD SET
IRF	IRON ROD FOUND
N.T.S.	NOT TO SCALE
	LIGHT POLE
	ELECTRIC STUB
	STORM STRUCTURE
	SEWER MANHOLE
	HYDRANT
	WATER METER
--WL--	WATER LINE
--E--	ELECTRIC LINE

GPS SURVEY CERTIFICATE

I, GUY V. COOKE, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND COMPLETED ON 6-18-2021, THAT THIS GPS SURVEY WAS PERFORMED TO THIRD ORDER, CLASS 1 FGCC SPECIFICATIONS AND THAT I USED VRS (VIRTUAL REFERENCE SYSTEM), USING A FOCUS 35 GPS RECIEVER FOR 2 STATIC BURNS OF 180 EPOCHS EACH AND AT TIMES EXCEEDING 2 HOURS OF SEPERATION FOR EACH BURN; THAT THE RATIO OF PRECISION MEETS THE 95% CONFIDENCE LIMITS.
WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS
24th DAY OF June, A.D., 2021.

TOPOGRAPHIC SURVEY CERTIFICATE

I, GUY V. COOKE, AS A PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, DO HEREBY CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL TOPOGRAPHIC SURVEY UNDER MY SUPERVISION AND COMPLETED ON 6-18-2021, THAT 95% OF ACTUAL GROUND IS WITHIN ONE HALF OF ONE CONTOUR INTERVAL AS DEPICTED ON THIS MAP AND ALL COORDINATES ARE BASED ON NAD '83 AND ALL ELEVATIONS ARE BASED ON NGVD '88, WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS
21st DAY OF June, A.D., 2021.

NOTES:

1. BASIS OF BEARINGS: GPS VRS SURVEY ON THREE CONTROL POINTS NAD 83 2011 HARN.
2. THIS PARCEL IS LOCATED IN ZONE X PER FIRM PANEL #3710359600L, EFFECTIVE DATE 9-02-2015.
3. THIS TOPOGRAPHIC MAP IS BASED ON VERTICAL DATUM NAVD 88 GEOID 12A.
4. THE WALL SHOWN IS DILAPIDATED KEYSTONE BLOCK.
5. THE AREA IS COMPUTED BY THE COORDINATE METHOD.
6. ALL DISTANCES ARE HORIZONTAL GROUND.
7. UNDERGROUND UTILITIES SHOWN WERE MARKED BY GC MAPPING, PLLC. NC LAW REQUIRES AN 811 DIG TICKET PRIOR TO EXCAVATION.

TO:
_____ Taco Bell Corp., a California corporation, and its affiliates, or its successors and/or assigns
__X__ Taco Bell of America, LLC, a Delaware limited liability company, and its affiliates, or its successors and/or assigns

AND
__X__ Chicago Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the "Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys," jointly established and adopted by ALTA and NSPS in 2016, and includes Items 1, 2, 3, 4, 5, 6(a), 6 (b), 7(a), 7(b)(1), 8, 9, 10(a), 10(b), 11, 13, 18, 19, 20, and 21 of Table A thereof. The field work was completed on 6-24-2021.

The real property described as follows:

LEGAL DESCRIPTION

ALL OF THAT CERTAIN PARCEL OF LAND, LYING AND BEING SITUATED IN RIVER BEND TOWNSHIP, GASTON COUNTY, NORTH CAROLINA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT AN IRON ROD FOUND WITH NC GRID COORDINATES OF N. 565880.01 E. 1397810.95 ON THE SOUTH SIDE OF SPRING STREET; THENCE N 17°15'25" W A DISTANCE OF 30.19' (L1) TO AN IRON ROD FOUND, THE POINT AND PLACE OF BEGINNING; THENCE S 73°47'01" W A DISTANCE OF 157.67' (L2) TO A RIGHT OF WAY MONUMENT FOUND; THENCE N 46°06'32" W A DISTANCE OF 29.90' (L3) TO AN IRON ROD SET; THENCE N 16°00'24" W A DISTANCE OF 24.03' (L4) TO AN IRON ROD SET; THENCE N 01°19'47" E A DISTANCE OF 26.18' (L5) TO AN IRON ROD SET; THENCE N 01°16'59" E A DISTANCE OF 40.66' (L6) TO A PK NAIL SET; THENCE N 17°17'02" W A DISTANCE OF 36.46' (L7) TO AN IRON ROD SET; THENCE N 73°50'31" E A DISTANCE OF 152.89' (L8) TO AN IRON ROD FOUND; THENCE S 16°14'15" E A DISTANCE OF 75.00' (L9) TO AN IRON ROD FOUND; THENCE S 16°18'39" E A DISTANCE OF 74.99' (L10) TO AN IRON ROD FOUND; WHICH IS THE POINT AND PLACE OF BEGINING, AND CONTAINING 24,318.3 SQ FT OR 0.56 ACRES.

Date of Plat/Map/Survey:
Guy V. Cooke, PLS L-4596
(Surveyors signature, printed name and seal with Registration/License Number)

NORTH CAROLINA PROFESSIONAL SEAL L-4596 LAND SURVEYOR GUY V. COOKE

TITLE EXCEPTIONS

-DEED BOOK 4936 PAGE 1032 - DRAINAGE EASEMENT (NO AFFECT TO SUBJECT PROPERTY)
-DEED BOOK 4836 PAGE 800 - NC DOT HIGHWAY RIGHT OF WAY TAKING (PROPERTY BOUNDARY ALREADY REFLECTS CHANGE)
-DEED BOOK 2611 PAGE 197 - CONSTRUCTION AND TURNING RADIUS EASEMENTEASEMENT (EASEMENT EXPIRED AFTER FINAL CONSTRUCTION)

GC MAPPING, PLLC
711 LAKE ROYALE
LOUISBURG, NC 27549
GUY V. COOKE, PLS L-4596
FIRM # P-1311
919-901-5641

REVISIONS			
NO.	DATE	DESCRIPTION	BY

COMMERCIAL SITE DESIGN
8312 CREEDMOOR ROAD (919) 848-6121, FAX: (919) 848-3741
RALEIGH, NORTH CAROLINA 27613
WWW.CSITEDESIGN.COM

OWNER:
PARVATI, SHIV & GANESH, INC.
2101 SPRING STREET
CITY OF MOUNT HOLLY
RIVER BEND TOWNSHIP
GASTON COUNTY
NORTH CAROLINA

SURVEY FOR:
TACO BELL
109 TUCKASEGEE ROAD
CITY OF MOUNT HOLLY, RIVER BEND
TWSP., GASTON CO., NORTH CAROLINA

ALTA/NSPS LAND TITLE SURVEY

PROJECT NO.	SUR-2112
FILENAME:	FILENAME
DRAWN BY:	GC Mapping, PLLC
SCALE:	1" = 20'
DATE:	6-24-2021
SHEET NO.	1 of 1

DEMOLITION NOTES

1. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY DEMOLITION PROCESS. CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS INCLUDING BUT NOT LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC CURRENT STATE'S EPA OR LOCAL GOVERNING AUTHORITIES AIR PERMITS FOR INSTALLATION AND OPERATION. CONTRACTORS MUST SEEK AUTHORIZATION FROM THE CORRESPONDING GOVERNING BODIES. FOR DEMOLITION OF ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO THE CURRENT STATE'S EPA AND LOCAL GOVERNING AUTHORITIES TO DETERMINE ANY CORRECTIVE ACTIONS THAT MAY BE REQUIRED.

2. DEMOLITION INCLUDES THE FOLLOWING:
2.A. TRANSFER BENCHMARK CONTROL TO NEW LOCATIONS OUTSIDE THE DISTURBED AREA PRIOR TO COMMENCING DEMOLITION OPERATIONS (WHEN APPLICABLE).
2.B. DEMOLITION AND REMOVAL OF SITE IMPROVEMENTS NECESSARY FOR THE PROPOSED CONSTRUCTION OF NEW IMPROVEMENTS.
2.C. REROUTING, RELOCATING, DISCONNECTING, CAPPING OR SEALING, AND ABANDONING/REMOVING SITE UTILITIES IN PLACE (WHICHEVER IS APPLICABLE).

3. REMOVE AND LEGALLY DISPOSE OF ITEMS CALLED OUT TO BE REMOVED. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. THOSE ITEMS INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN SHALL BE CLEANED, SERVICED, AND OTHERWISE PREPARED FOR REUSE. CONTRACTOR TO STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN LOCATIONS INDICATED.

4. PROTECT ITEMS INDICATED TO REMAIN AGAINST DAMAGE AND SOILING THROUGHOUT CONSTRUCTION. WHEN PERMITTED BY THE CONSTRUCTION MANAGER OR OWNER, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION THROUGHOUT CONSTRUCTION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS. PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY DEMOLITION OPERATIONS AT THE CONTRACTORS COST.

5. CONTRACTOR SHALL SCHEDULE DEMOLITION ACTIVITIES WITH THE CONSTRUCTION/PROJECT MANAGER INCLUDING THE FOLLOWING:
5.A. DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR EACH ACTIVITY.
5.B. DATES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES.
5.C. IDENTIFY AND ACCURATELY LOCATE UTILITIES AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL, OR MECHANICAL CONDITIONS.

6. REGULATORY REQUIREMENTS: COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION

7. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE THROUGHOUT CONSTRUCTION OPERATIONS.
7.A. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER'S REPRESENTATIVE AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND TO GOVERNING AUTHORITIES.

8. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES SERVING THE SITE. ARRANGE TO SHUT OFF AND CAP UTILITIES WITH UTILITY COMPANIES AND FOLLOW THEIR RESPECTIVE UTILITY KILL AND CAP POLICIES. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING BY THE UTILITY COMPANY.

9. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA. SAFE PASSAGE INCLUDES THE ERECTION OF TEMPORARY PROTECTION AND/OR BARRICADES AS PER LOCAL GOVERNING AUTHORITIES AND IN ACCORDANCE WITH THE CURRENT ADA REGULATIONS. USE OF EXPLOSIVES WILL NOT BE PERMITTED.

10. CLEAN ADJACENT BUILDINGS AND IMPROVEMENT OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.

11. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE PERMITTED. NO BURNING OF ANY MATERIALS ON SITE SHALL BE PERMITTED.

12. IT IS NOT EXPECTED THAT ASBESTOS WILL BE ENCOUNTERED IN THE COURSE OF THIS CONTRACT. IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED, DO NOT DISTURB THE MATERIALS. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND THE OWNER.

13. SURVEY THE CONDITION OF THE STRUCTURE TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE OR ADJACENT STRUCTURES THROUGHOUT CONSTRUCTION.

14. DEMOLISH BUILDING AND STRUCTURAL PADS COMPLETELY AND REMOVE FROM THE SITE. USE METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:
14.A. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY.
14.B. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
14.C. BREAK UP AND REMOVE CONCRETE SLABS ON GRADE.

15. BELOW-GRADE DEMOLITION: DEMOLISH FOUNDATION WALLS, PAVEMENTS, AND OTHER BELOW-GRADE DEMOLITION, AS FOLLOWS:
15.A. COMPLETELY REMOVE BELOW-GRADE DEMOLITION, INCLUDING FOUNDATION WALLS FOOTINGS, KNOWN AND UNKNOWN PAVEMENT SECTIONS INCLUDING UNDERLYING CONCRETE SLABS, AND OTHER BELOW GRADE CONCRETE SLABS FOUND DURING DEMOLITION (INCLUDING ITEMS WHICH MAY NOT BE IDENTIFIED HEREIN).

16. FILLING BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF BUILDINGS, PAVEMENTS, AND OTHER REMOVED ITEMS WITH SOIL MATERIALS ACCORDING TO REQUIREMENTS PER SOILS REPORT AND ON-SITE GEOTECHNICAL ENGINEER'S REPRESENTATIVE. CONTRACTOR SHALL CONTACT GEOTECHNICAL ENGINEER PRIOR TO FILLING ANY AREAS TO OBSERVE FILL PROCEDURES.

17. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS.

18. CONTRACTOR TO WET SAWCUT EXISTING PAVEMENT TO REMAIN AT NEXT NEAREST JOINT PRIOR TO REMOVALS OF CURB, GUTTER, PAVEMENT, ETC.

19. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WITH SMALL HANDHELD GRINDERS OR SCARIFIERS OR OTHER METHODS, WITH THE APPROVAL OF THE CONSTRUCTION MANAGER. TAKE CARE DURING MARKING REMOVAL NOT TO SCAR, DISCOLOR, OR OTHERWISE DAMAGE THE PAVEMENT SURFACE. DO NOT OVERPAINT OR USE OTHER METHODS OF COVERING MARKINGS INSTEAD OF REMOVAL.

20. IF UNDERGROUND TANKAGE IS CALLED FOR DEMOLITION, THE CONTRACTOR SHALL COORDINATE REMOVAL AND REPLACEMENT WITH THE STATE BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS (BUSTR). UNDERGROUND TANK REMOVAL SHALL ALSO INCLUDE THE REMOVAL OF ANY MONITORING WELLS, OIL/GAS WELLS, AND MINE SHAFTS, IN ACCORDANCE WITH GOVERNING AUTHORITIES HAVING JURISDICTION.

21. CONTRACTOR SHALL FULLY SECURE WORK AREA WITH THE APPROPRIATE SIGNAGE, FENCING, AND BARRICADES WHICH ACCOMMODATE VISUALLY IMPAIRED PERSONS AS AGREED UPON WITH SITE CONSTRUCTION/PROJECT MANAGER AND OWNER TO WARN AND KEEP PEOPLE OUT OF THE SITE WORK AREA FOR THE DURATION OF THE PROJECT.

GENERAL PLAN AND SURVEY NOTES

1. ALL WORK SHALL BE GOVERNED BY THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AS WELL AS THE CURRENT EDITION OF THE LOCAL JURISDICTION STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSSESS AND TO BE FAMILIAR WITH APPLICABLE SECTIONS.

2. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SECTION OF THESE NOTES ENTITLED “GRADING PLAN NOTES” FOR DEFINITIONS AS MAY BE NECESSARY FOR “GEOTECHNICAL ENGINEER” AND “SOILS REPORT”.

4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION/PROJECT MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT AND PLANS, ETC.

5. THE CONTRACTOR SHALL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL EXPLORATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLAN AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING AS REQUIRED ABOVE, OF SUCH DIFFERING CONDITIONS.

6. ALL WORK WITHIN THE RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION AND SPECIFICATIONS.

7. CONTRACTOR SHALL COORDINATE ANY MAINTENANCE OF TRAFFIC WITH THE OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION.

8. CONTRACTOR SHALL AT ALL TIMES ENSURE THAT SWPP MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION. (SEE SWPP PLANS).

9. ALL WORK SHALL BE COMPLETED IN A NEAT AND ORDERLY MANNER REMOVING ALL EXCESS MATERIAL AND WASTE FROM THE SITE INCLUDING TIMELY REMOVAL OF ANY CONCRETE SPLATTER. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS, AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE (SEE SWPP PLANS).

10. THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A CONTRACTUAL RELATIONSHIP BETWEEN GPD ENGINEERING AND ARCHITECTURE PROFESSIONAL CORPORATION AND THE CONTRACTOR / SUBCONTRACTOR / OR OTHER AFFILIATED PARTIES.

11. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFETY, MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS. ANY SEQUENCING OR SUGGESTED NOTATIONS WHICH MAY APPEAR IN THE PLANS IS INTENDED TO ASSIST IN THE UNDERSTANDING OF PROJECT INTENT.

12. DETAILS, NOTES, AND OTHER REFERENCES CONTAIN HEREIN MAY HAVE BEEN ATTAINED FROM OUTSIDE REFERENCE SOURCE LOCATIONS SUCH AS, BUT NOT LIMITED TO, LOCAL AUTHORITY AGENCIES, DESIGN REFERENCE MANUALS, MANUFACTURE'S RECOMMENDED DOCUMENTATION, OR OTHER INDUSTRY SOURCES. GPD DOES NOT WARRANT INFORMATION OR REPRESENTATION OF SAID CONTENT CONTAINED HEREIN, IT IS SHOWN SOLELY FOR REFERENCE ONLY OF DESIGN INTENT AT THE TIME OF PLAN PREPARATION. THE CONSTRUCTION TEAM MEMBERS (CONTRACTOR AND CONSTRUCTION MANAGER, WHERE APPLICABLE) SHALL OBTAIN THE MOST CURRENT DETAILED INFORMATION FROM THE RESPECTIVE SOURCE TO CONSTRUCT THE IMPROVEMENTS UNDER THE AUTHORITY OF THE RESPECTIVE GOVERNING AGENCIES. IF ANY DISCREPANCIES ARE DISCOVERED BETWEEN THE ORIGINAL DESIGN INTENT AND THE CONSTRUCTION TEAM OBTAINED REFERENCE MATERIAL, THE CONSTRUCTION MANAGER OR THE PROJECT'S CONTACT PERSON SHALL BE NOTIFIED PRIOR TO COMMENCING OF ASSOCIATED WORK.

13. CONDUCT CONSTRUCTION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.

14. THE A.L.T.A. SURVEY BY GC MAPPING, PLLC, DATED 6/18/2021 SHALL BE CONSIDERED A PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING IMPROVEMENTS PER THESE PLANS.

15. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLANS ARE BASED ON GENERAL FIELD SURVEYS AND ROADWAY PLANS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO BECOME FAMILIAR WITH THE SITE'S POSSIBLE BELOW GRADE FEATURES, INCLUDING BUT NOT LIMITED TO, ROOMS, VAULTS, UTILITIES, ETC. AND SHALL CONDUCT A WALK THROUGH WITH THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR REPAIR TO DAMAGE CAUSED BY THEIR WORK FORCE TO FACILITIES WHICH ARE NOT INTENDED TO BE DISTURBED .

16. ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON THE SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

17. IN SOME CASES, THE DEVELOPER OR OWNER MAY HAVE PROVIDED THEIR OVERALL DEVELOPMENT PLANS FOR THE PROJECT DESIGN RATHER THAN A FIELD SURVEY. (SEE SITE PLAN FOR NOTES WHEN THIS IS THE CASE). ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON SAID DEVELOPMENT PLANS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

18. THE CONTRACTOR SHALL RUN AN INDEPENDENT VERTICAL CONTROL TRAVERSE TO CHECK BENCHMARKS AND A HORIZONTAL CONTROL TRAVERSE THROUGH THE REFERENCED PROJECT CONTROL DATUM TO CONFIRM GEOMETRIC DATA. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

CONCRETE NOTES AND SPECIFICATIONS

1. ALL EXTERIOR SITE SPECIFIC PORTLAND CEMENT CONCRETE (PCC) (I.E. SIDEWALK, PAVEMENT OR CURBING) SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST EDITIONS OF THE STATE DEPARTMENT OF TRANSPORTATION (DOT) AND THE AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATIONS USING THE RESPECTIVE ASTM STANDARDS FOR MATERIALS USED, MIXING, TRANSPORTATION, FORMING, PLACEMENT, CURING, AND SEALING. THE MINIMUM STRENGTH FOR NORMAL WEIGHT CONCRETE IS 4000 PSI AT 28 DAY STRENGTH. CONTRACTOR SHALL REFER TO DETAILS, NOTES, AND SPECIFICATIONS WITHIN THE CONSTRUCTION DOCUMENTS FOR VARIATIONS TO THIS SPECIFICATION. MIX DESIGN SHOP DRAWINGS SHALL BE TAILORED TO THE ACTUAL FIELD PLACEMENT CONDITIONS AND BE SUBMITTED TO THE CONSTRUCTION/PROJECT MANAGER IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.

2. ALL EXTERIOR CONCRETE CURBS SHALL HAVE JOINTS PER ACI 330. CURB JOINTS ARE TO ALIGN WITH CONCRETE PAVEMENT JOINTS WHERE APPLICABLE, TYPICALLY BEING 10 FT TO 12 FT. ALL EXTERIOR VEHICULAR CONCRETE PAVEMENT AND FLATWORK SHALL HAVE CONTROL JOINTS PER TABLE BELOW AND EXPANSION JOINTS PER ACI 330 TYPICAL RECOMMENDATIONS.

SLAB THICKNESS - " T "	MAXIMUM JOINT SPACING
LESS THAN 4 INCHES	8 FEET
4 - < 5 INCHES	10 FEET
5 - < 6 INCHES	12.5 FEET
6 INCHES - < 8 INCHES	15 FEET
8 INCHES - 10 INCHES	15 FEET

3. ALL JOINTS, INCLUDING SAWED JOINTS, SHALL BE SEALED. JOINTS SHALL BE CLEANED AND DRIED PRIOR TO SEALING. JOINT SEALING MATERIALS SHALL COMPLY WITH ASTM D 3406 FOR HOT APPLIED ELASTOMERIC, TT-S-001543A FOR SILICONE RUBBER, AND TT-S-00230S FOR SINGLE COMPONENT ELASTOMERIC. SEALER WIDTH, DEPTH, AND PREPARED APPLICATION SURFACES SHALL BE PER MANUFACTURES RECOMMENDATIONS. JOINT FILLER MATERIAL SHALL CONFORM TO ASTM D1751 OR ASTM D8139 AND EXTEND THE FULL DEPTH OF CONTACTING SURFACE.

4. ALL CONCRETE PANELS SHALL BE SQUARE WITH A LENGTH TO WIDTH RATIO NO GREATER THAN 1.25 TO 1 AND HAVE A MEDIUM BROOM FINISH (TRANSVERSE, SLIP RESISTANT FOR PEDESTRIAN PATHWAYS) WHICH SHALL BE TO MINIMUM STRENGTH PRIOR TO OPENING FOR VEHICULAR TRAFFIC AREAS. STAGGERED/OFFSET JOINT, INTERIOR CORNERS, ANGLES LESS THAN 60 DEGREES, SLABS LESS THAN 18-INCHES WIDE, AND ODD SHAPES SHALL NOT BE PERMITTED. BLOCKOUTS AROUND ALL PAVEMENT CASTINGS SHALL BE PROVIDED IN ACCORDANCE WITH ACI RECOMMENDATIONS.

5. ALL JOINTING (IF) SHOWN HEREIN IS ONLY A GENERAL GUIDELINE OF DESIGN INTENT. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FINAL LAYOUT OF THE JOINTING WHICH COINCIDES WITH THEIR MEANS AND METHODS TO ENSURE NO UNDESIRED CRACKS FORM THROUGH ANY PLACED CONCRETE. JOINTS SHALL BE APPROPRIATELY PLACED AS SOON AS POSSIBLE TO KEEP UNNECESSARY CRACKS FROM DEVELOPING. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF THEIR PAVEMENT JOINT LAYOUT TO OWNER / CONSTRUCTION MANAGER PRIOR TO PLACEMENT FOR RECORD. THE CONTRACTOR SHALL REPLACE ANY CRACKED CONCRETE, WHICH HAS NOT BEEN PLACED/FINISHED IN ACCORDANCE WITH ACI STANDARDS, TO THE NEXT JOINT PAST THE EFFECTED AREA AT NO ADDITIONAL COST TO THE PROJECT WITHIN ONE YEAR OF PROJECT COMPLETION.

6. DESIGN INTENT CONCRETE AND SHALL CONFORM TO THE FOLLOWING MINIMUM AND MAXIMUM VALUES:

a.	STRENGTH	PER MIX DESIGN, MINIMUM 4000 PSI
b.	PORTLAND CEMENT CONTENT	550 LB / CY (ASTM C150 TYPE I/II)
c.	POZZOLAN MATERIALS (SEE NOTES BELOW)	SILICA FUME MAY REPLACE MAX. 7% CEMENT FLY ASH OR SLAG CEMENT MAY REPLACE MAX. 20% CEMENT
d.	MAX W/C RATIO	PER MIX DESIGN, MAXIMUM 0.45
e.	ENTRAINED AIR	6.5% AVG ± 1.5% (7.0% TARGET) ASTM C260
f.	SLUMP	4” MAX WITHOUT WATER REDUCER
g.	SLUMP WITH HRWR OR MID RANGE WR	6” TO 8”
h.	WATER REDUCER	NORMAL TYPE A (ASTM C494)
i.	RETARDER	NORMAL TYPE B OR D AS NEEDED (REQUIRED IF CONCRETE TEMPERATURE EXCEEDS 85F)
j.	CONCRETE TEMPERATURE AT PLACEMENT	50F-90F
k.	ACCELERATOR	NON-CHLORIDE TYPE ONLY - CALCIUM CHLORIDE IS PROHIBITED
l.	FIBERS TO BE USED FOR SHRINKAGE CRACK CONTROL - (CURBS, WALKS, STEPS, RAMPS)	POLYPROPYLENE OR POLYETHYLENE MiCRO SYNTHETIC FIBERS @ 1.5 LBS / CY (FIBERMESH 300 OR APPROVED EQUAL)
	- FOR USE AS W.W.F. REPLACEMENT (VEHICULAR TRAFFIC PAVEMENT)	MACRO SYNTHETIC FIBERS @ 4.0 LBS / CY (TUF-STRAND SF OR APPROVED EQUAL)

7. ALL SYNTHETIC FIBERS SHALL BE TYPE III PER ASTM C1116 AND ASTM D7508. MACRO FIBERS SHALL BE 1.5 TO 2.25 INCHES IN LENGTH.

8. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, ASTM A1064, ASTM A307, AND ASTM A775. WHEN USED, ALL W.W.F. SLAB REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS AND BE FLAT SHEETS ONLY. ZINC REPAIR MATERIAL SHALL CONFORM TO ASTM A780.

9. CONCRETE SHALL ARRIVE AT JOB SITE WITH APPROPRIATE W/C RATIO. NO WATER SHALL BE ADDED TO CONCRETE ON SITE WHICH EXCEEDS THE MAXIMUM ALLOWED W/C RATIO AS INDICATED BY THE WRITTEN BATCH PLANT TICKET FROM THE SUPPLIER. SUPERPLASTICIZER AND/OR OTHER ADMIXTURES MAY BE UTILIZED TO ACHIEVE DESIRED WORKABILITY OR TO ACCOUNT FOR ADVERSE PLACEMENT CONDITIONS. ADMIXTURES SHALL BE UTILIZED ONLY IN ACCORDANCE WITH THE MANUFACTURES WRITTEN INSTRUCTIONS AND MEET THE REQUIREMENTS OF ASTM C494 AND/OR ASTM C1017.

10. CONTRACTOR SHALL HAVE A MIN. 5 YEARS EXPERIENCE WITH SUCCESSFUL PLACEMENT OF CONCRETE UTILIZING POZZOLAN MATERIALS. MIX DESIGNS WHICH UTILIZED POZZOLAN MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL DOT SPECIFICATIONS AND ACI STANDARDS. FLY ASH SHALL MEET THE REQUIREMENTS OF ASTM C618, CLASS C OR CLASS F, EXCEPT THE LOSS ON IGNITION MUST NOT EXCEED 5%. SLAG CEMENT ACCORDING TO ASTM C989, GRADE 100 MINIMUM. SILICA FUME SHALL BE DRY DENSIFIED MEETING THE REQUIREMENTS OF ASTM C1240. USE OF MATERIALS SHALL BE IN ACCORDANCE WITH ACI 211.1.

11. AGGREGATES SHALL BE LOW-SHRINKAGE / WELL GRADED PER ASTM C33 AND THE LOCAL DOT SPECIFICATIONS WHICH ARE RESISTANT TO FREEZE / THAW, SULFATE ATTACK, AND ARE NOT ALKALI-CARBONATE AGGREGATES OR SUSCEPTIBLE TO ALKALI-AGGREGATE REACTIVITY. SLAG AGGREGATES SHALL NOT BE PERMITTED IN ANY CONCRETE MIX.

12. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL BE PER ASTM C1315 TYPE II CLASS A IN ACCORDANCE WITH ACI 308. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL BE WHITE PIGMENTED AND TWO COATS APPLIED IN TWO PERPENDICULAR UNIFORM APPLICATIONS PER MANUFACTURES RECOMMENDATIONS WITHIN THE ALLOWABLE TIME PERIODS. APPLICATIONS SHALL BE PHOTOGRAPH DOCUMENTED FOR EVEN AND CONSISTENT COVERAGE SIMILAR TO THE APPEARANCE OF A BLANK WHITE SHEET OF COPY PAPER. NO POOLING OF MATERIAL SHALL BE ACCEPTED.

13. CONCRETE SEALER SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. A WRITTEN STATEMENT FROM THE MANUFACTURE FOR THE SEALER AND CURING COMPOUND SHALL BE PROVIDED GUARANTEEING COMPATIBILITY.

14. REFER TO ACI INDUSTRY STANDARDS FOR CONCRETE PLACEMENT AND INSTALLATION. CONTRACTOR SHALL INCLUDE PROVISIONS IN ACCORDANCE WITH ACI 305R AND 306R FOR HOT AND COLD WEATHER PLACEMENT WHEN PROJECT SCHEDULE TIMING FALLS WITHIN THE REQUIRED TEMPERATURE RANGES PER ACI AND THE LOCAL DOT.

GRADING PLAN NOTES

1. A GEOTECHNICAL ENGINEERING SERVICES REPORT HAS BEEN PREPARED BY PROFESSIONAL SERVICE INDUSTRIES (PSI) , DATED 7/6/2021 AND SHALL BE CONSIDERED TO BE A PART OF THIS PLAN SET.

2. BEFORE STARTING GRADING OPERATIONS, SEE STORMWATER POLLUTION PREVENTION PLAN, NOTES AND DETAILS (SWPP), LANDSCAPE PLAN AND SOILS REPORT FOR TREATMENT OF EXISTING GRADE.

3. PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILTATION FROM LEAVING THE SITE AT ALL TIMES.

4. STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS. STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. SEE GEOTECHNICAL REPORT FOR STRIPPING AND TOPSOIL REQUIREMENTS.

5. OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE.

6. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. UNLESS OTHERWISE SPECIFIED IN THE PLANS, SPECIFICATIONS, OR GEOTECHNICAL REPORT THE SITE GRADING, EXCAVATION, AND EMBANKMENT SHALL BE IN ACCORDANCE WITH THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

7. REFER TO GEOTECHNICAL REPORT A PARTIAL EXCERPT AS FOLLOWS: "ELASTIC SILT (MH) AND FAT CLAY (CH) RESIDUUM COMPRISED THE NEAR-SURFACE RESIDUAL SOILS IN MOST OF THE BORINGS. THESE SOILS GENERALLY EXHIBIT MODERATELY HIGH TO HIGHLY PLASTIC PROPERTIES AND ARE TYPICALLY SUSCEPTIBLE TO CHANGES IN VOLUME WITH EVEN SLIGHT CHANGES IN MOISTURE CONTENT (I.E. SHRINK/SWELL BEHAVIOR). AS A RESULT, MH AND CH SOILS ARE NOT RECOMMENDED FOR DIRECT SUPPORT OF FOUNDATIONS, SLABS OR PAVEMENTS. WE RECOMMEND A MINIMUM 2-FOOT THICK BUFFER BETWEEN THESE SOILS AND SLABS OR FOUNDATIONS, AND A MINIMUM 1-FOOT BUFFER BETWEEN THESE SOILS AND PAVEMENTS, CURBS AND SIDEWALKS. THE BUFFERS SHOULD CONSIST OF LOW-PLASTICITY STRUCTURAL FILL, PLACED AND COMPACTED AS DESCRIBED IN SECTION 4.2. IN THE CASE OF FOUNDATIONS, THEY MAY BE DEEPENED TO EXTEND BENEATH THESE SOILS WHEN ENCOUNTERED IN FOOTING EXCAVATIONS OR THEY MAY BEAR IN THESE MATERIALS PROVIDED THE FOUNDATIONS ARE NOT LESS THAN 4 FEET BELOW FINAL FINISHED GRADE.

BASED ON THE BORINGS, RESIDUAL MH OR CH SOILS ARE ANTICIPATED TO DEPTHS OF APPROXIMATELY 3 FEET BELOW CURRENT GRADE IN THE BUILDING AREA. DEPENDING ON PROPOSED GRADES, THESE SOILS MAY BE ENCOUNTERED IN FOUNDATION EXCAVATIONS AND WILL REQUIRE REMOVAL AND REPLACEMENT WITH SUITABLE, LOW-PLASTICITY STRUCTURAL FILL, AS DESCRIBED IN THE PREVIOUS PARAGRAPH. ACROSS THE REMAINING SITE AREA, THE EXTENT OF MH AND CH SOILS REQUIRING UNDERCUTTING AND REMOVAL WILL BE DEPENDENT ON SITE OBSERVATIONS DURING GRADING. HOWEVER, THE PROJECT BUDGET SHOULD INCLUDE A CONTINGENCY FOR THE REMOVAL AND REPLACEMENT OF ANY NEAR-SURFACE MH AND CH SOILS TO PROVIDE THE BUFFERS DESCRIBED ABOVE. IN ADDITION, MH AND CH SOILS ARE NOT RECOMMENDED FOR REUSE AS STRUCTURAL FILL."

8. AT A MINIMUM ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST D-698. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 3% ABOVE NOR 3% BELOW OPTIMUM. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND RETAIN A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO ENSURE COMPLIANCE WITH THE GEOTECHNICAL REPORT, MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS, AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE OWNER SHALL RECEIVE ALL COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. NOTIFY PROJECT CONSTRUCTION MANAGER IF ANY UNSUITABLE SOILS ARE FOUND.

9. FOLLOWING GRADING OF SUBSOIL TO SUBGRADE ELEVATIONS THE CONTRACTOR SHALL PLACE TOPSOIL TO A 6" DEPTH (UNLESS OTHERWISE SPECIFIED IN LANDSCAPING DETAILS) IN ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED. SMOOTHLY FINISH GRADE TO MEET SURROUNDING LAWN AREAS AND ENSURE POSITIVE DRAINAGE. STOCKPILED TOPSOIL SHALL BE SCREENED PRIOR TO RESPREADING. TOPSOIL SHALL BE FREE OF SUBSOIL, DEBRIS, BRUSH AND STONES LARGER THAN 1" IN ANY DIMENSION. ROCK HOUNDING IN PLACE WILL NOT BE PERMITTED. ALL EXCESS TOPSOIL SHALL BE LEGALLY DISPOSED OF OFF SITE.

10. ELEVATIONS GIVEN ARE AT BOTTOM FACE OF CURB AND/OR FINISHED PAVEMENT GRADE UNLESS OTHERWISE SPECIFIED ON GRADING PLAN. ALL PAVEMENT SHALL BE LAID ON A STRAIGHT, EVEN, AND UNIFORM GRADE WITH A MINIMUM OF 1% SLOPE TOWARD THE COLLECTION POINTS UNLESS OTHERWISE SPECIFIED ON THE GRADING PLAN. DO NOT ALLOW NEGATIVE GRADES OR PONDING OF WATER.

11. SLOPE BUILDING SIDEWALK AWAY FROM THE BUILDING AT A MAXIMUM OF 1.5% (UNLESS OTHERWISE INDICATED ON THE GRADING PLAN).

12. WHEN CONSTRUCTING ASPHALTIC CONCRETE PAVEMENTS, CONTRACTOR SHALL PROVIDE BUTT END JOINT TO MEET EXISTING PAVEMENT IN ELEVATION AT DRIVE RETURNS AND ENSURE POSITIVE DRAINAGE.

GENERAL UTILITY NOTES

1. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IMMEDIATELY AFTER BID IS AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER OF ANY TIME FRAMES ESTABLISHED BY UTILITY COMPANIES WHICH WILL NOT MEET OPENING DATE.

2. CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL PROPOSED UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR TO ENSURE EXISTING UTILITIES ARE IN GOOD CONDITION AND FREE FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR LOCATION DIFFER FROM WHAT IS SHOWN ON PLANS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IMMEDIATELY.

3. WHERE PLANS PROVIDE FOR PROPOSED WORK TO BE CONNECTED TO, OR CROSS OVER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING THE PROPOSED WORK. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE RESULTS IN A CHANGE IN THE PLAN, THE CONSTRUCTION MANAGER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED WORK WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM.

4. UTILITY SERVICE PROVIDERS RULES AND REQUIREMENTS TAKE PRECEDENCE OVER INFORMATION HEREIN. IF DISCREPANCY ARISES, CONTRACTOR SHALL FULLY COORDINATE WITH UTILITY SERVICE PROVIDER PRIOR TO START OF CONSTRUCTION.

CABLE NOTES

1. INSTALL 4" CABLE TVSS CONDUIT PER CITY, STATE OR NEC CODE, WHICHEVER IS MORE STRINGENT (FOR FUTURE USE). SEE ELECTRICAL SHEETS FOR DETAILS. TERMINATE CABLE CONDUIT AT RIGHT-OF-WAY. PROVIDE END CAP AND NOTE LOCATION ON AS-BUILT DRAWINGS.

SANITARY SEWER NOTES

1. SANITARY SEWER LATERAL INVERT AT BUILDING SHALL BE A MINIMUM OF 4' BELOW FINISH FLOOR.

2. CLEAN-OUTS TO BE INSTALLED AT ALL PIPE BENDS AND ANGLES, UNLESS A MANHOLE IS INDICATED.

3. THE CONTRACTOR SHALL HIRE A LOCAL PLUMBER LICENSED WITH THE LOCAL SANITARY JURISDICTION TO MAKE ALL CONNECTIONS FROM THE BUILDING TO THE EXISTING SEWER. CONTRACTOR SHALL SECURE A SANITARY SEWER CONNECTION PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTORS PRICE FOR SANITARY SEWER INSTALLATION SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE LOCAL SANITARY JURISDICTION TO PROVIDE A COMPLETE WORKING SERVICE. COORDINATE ALL WORK WITH CITY OF MOUNT HOLLY, DAVID JOHNSON @ 704-951-0074 x1002.

4. ALL SANITARY PIPE MATERIAL SHALL BE 6" PVC, SDR 35 CONFORMING TO ASTM D 3034, WITH JOINTS PER ASTM 3212 UNLESS OTHERWISE REQUIRED BY THE LOCAL JURISDICTION.

STORM SEWER NOTES

1. CONTRACTOR TO CONFIRM WITH CITY INSPECTOR, WHERE ALLOWED ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH INTERIOR PIPE (UNLESS OTHERWISE NOTED ON PLAN). HDPE PIPE SHALL CONFORM TO ASTM D 3350 AND JOINTS PER ASTM F477. WHERE NOTED RCP, CL IV, SHALL CONFORM TO ASTM C76, AND JOINTS PER ASTM C-443. STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE PVC, SDR 35, PER ASTM D 3034 AND JOINTS PER ASTM D 3212 (OR APPROVED EQUAL).

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION. COORDINATE ALL WORK WITH CITY OF MOUNT HOLLY, DAVID JOHNSON @ 704-951-0074 x1002.

3. ALL DRAINAGE STRUCTURES AT PAVEMENT SUMPS SHALL HAVE FINGER DRAINS PER DETAILS IN PLANS.

WATER NOTES

1. WATER SERVICE MATERIALS SHALL BE COPPER TYPE "K" UNLESS OTHERWISE NOTED ON PLANS. DIAMETER SHALL BE AS NOTED ON THESE PLANS AND SHALL BE INSTALLED WITH A MINIMUM COVER OF 48" OR BELOW FROST LINE, WHICHEVER IS GREATER.

2. CONSTRUCTION AND MATERIALS PROVIDED BY THE WATER COMPANY:
a. FURNISH WATER METER.
b. COORDINATE ALL WORK WITH THE CITY OF MOUNT HOLLY, DAVID JOHNSON @ 704-951-0074 x 1002.

3. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
a. TAP MAIN.
b. INSTALL CURB STOP & BOX AND METER.
c. FURNISH AND INSTALL COPPER SERVICE LINE FROM METER TO BUILDING.
d. ALL TRENCHING AND BACKFILLING.

4. CONTRACTOR SHALL PROVIDE 100% IRRIGATION PER CONSTRUCTION/PROJECT MANAGER AND CITY REQUIREMENTS. COORDINATE SLEEVE LOCATIONS WITH THE CONSTRUCTION/PROJECT MANAGER AND IRRIGATION CONSULTANT PRIOR TO PAVEMENT AND CURB INSTALLATION.

ELECTRICAL NOTES

1. SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING AND LUMINAIRE DESCRIPTION.

2. SEE ELECTRICAL SHEETS FOR ALL DEDICATED EXTERIOR BUILDING AND SIGN LIGHTING SCHEDULES. ELECTRICAL CONTRACTOR SHALL BALANCE LOADS WHERE REQUIRED.

3. WHEN INSTALLING VERTICAL SWEEPS FOR UTILITY CONDUITS, CONTRACTOR SHALL USE SCHEDULE 80 DUCTS OF THE SIZE SHOWN ON THE PLANS.

4. CONSTRUCTION AND MATERIALS PROVIDED BY THE ELECTRIC COMPANY:
a. FURNISH AND INSTALL POLE MOUNTED TRANSFORMER.
b. MAKE APPROPRIATE PRIMARY AND SECONDARY CONNECTIONS AT TRANSFORMER.
c. FURNISH AND INSTALL METER.
d. RUN CONDUIT UP POLE.
e. FURNISH AND INSTALL SECONDARY WIRE FROM THE POLE TO BUILDING.
f. COORDINATE ALL WORK WITH DUKE ENERGY, TYLER @ 704-836-6304.

5. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
a. FURNISH AND INSTALL 2-4" PVC SCHEDULE 40 DUCTS, INCLUDING ALL TRENCHING AND BACKFILLING FROM POLE TO BUILDING.
b. FURNISH AND INSTALL CT CABINET.
c. INCLUDE ALL FEES REQUIRED BY ELECTRIC COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

TELEPHONE NOTES

1. CONSTRUCTION AND MATERIALS PROVIDED BY THE TELEPHONE COMPANY:
a. COORDINATE ALL WORK WITH AT&T @ 888-808-0082.
b. PROVIDE AND INSTALL WIRING TO EXISTING POLE.

2. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
a. FURNISH AND INSTALL ONE 4" PVC SCH. 40 CONDUIT WITH PULLWIRE FROM THE BUILDING TO EXISTING SERVICE.
b. ALL TRENCHING AND BACKFILLING.
c. INCLUDE ALL FEES REQUIRED BY TELEPHONE COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

3. CONTRACTOR SHALL COORDINATE THE NUMBER OF LINES REQUIRED WITH THE CONSTRUCTION/ PROJECT MANAGER.

NATURAL GAS NOTES

1. CONSTRUCTION AND MATERIALS PROVIDED BY THE GAS COMPANY:
a. TAP MAIN.
b. FURNISH AND INSTALL SERVICE FROM TAP TO BUILDING.
c. ALL TRENCHING AND BACKFILLING.
d. FURNISH AND INSTALL METER.
e. COORDINATE ALL WORK WITH DOMINION ENERGY @ 1-877-776-2427.

2. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
a. FURNISH AND INSTALL SERVICE FROM METER TO BUILDING AND THROUGHOUT THE BUILDING.
b. CONTRACTOR SHALL INCLUDE ALL FEES REQUIRED BY THE GAS COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED PLANNING AND DEVELOPMENT DEPARTMENT DATE:

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

GENERAL NOTES

C-001

PLOT DATE:

GENERAL NOTES

1. ALL WORK SPECIFIED AS A DEPARTMENT OF TRANSPORTATION ITEM SHALL BE GOVERNED BY THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AS WELL AS THE CURRENT EDITION OF THE LOCAL JURISDICTION STORM WATER MANAGEMENT MANUAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSSESS AND TO BE FAMILIAR WITH APPLICABLE SECTIONS.

2. THESE CONTRACT DRAWINGS SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES SHALL BE IMPLEMENTED TO MANAGE THE CURRENT SITE CONDITIONS WHICH MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL AND WATER CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS AND CHANGE IN SITE CONDITIONS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

3. ALL STORM WATER POLLUTION PREVENTION PRACTICES SHALL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.

4. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNSLOPE OF DISTURBED AREAS. SEDIMENT BARRIERS SHALL BE INSTALLED ALONG LEVEL CONTOURS. MAXIMUM CONTRIBUTING DRAINAGE AREA TO SEDIMENT BARRIERS SHALL BE PER THE CURRENT STATE'S EPA OR THE LOCAL AUTHORITY REQUIREMENTS. COMPOSITE FILTER SOCKS USED IN LIEU OF SILT FENCE SHALL BE A MINIMUM OF 12 INCHES IN DIAMETER.

5. SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING AND NEW STORM INLETS, CATCH BASINS AND YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.

6. STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS MAY BE SHOWN ON THESE PLANS AND/OR AS DIRECTED BY THE ENGINEER OR THE LOCAL AUTHORITY HAVING JURISDICTION.

7. SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT PERIMETER CONTROLS SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.

8. ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION.

9. CONSTRUCTION ENTRANCE SHALL BE UTILIZED. IF CONDITIONS ARE SUCH THAT MUD IS COLLECTING ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD ONTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.

10. IF FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL ENSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARE SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.

11. CONCRETE WASHOUT FACILITY (IF APPLICABLE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLAN DETAILS AND LOCAL GOVERNING AUTHORITY REGULATIONS AND INSTRUCTIONS.

12. IMPLEMENTATION OF EROSION AND SEDIMENT CONTROLS SHALL CONFORM TO STATE OF NORTH CAROLINA CONSTRUCTION GENERAL PERMIT #NCG010000 AND THE CITY OF MOUNT HOLLY CODIFIED ORDINANCES. IF A CONFLICT EXISTS BETWEEN THE TWO REGARDING EROSION AND SEDIMENT CONTROL IMPLEMENTATION, THE MORE RESTRICTIVE SHALL APPLY.

13. DISTURBED AREAS WITHIN 50' OF A STREAM SHALL HAVE PERMANENT STABILIZATION APPLIED WITHIN 2 DAYS OF FINAL GRADE.

14. DISTURBED AREAS WHICH WILL REMAIN DORMANT FOR OVER 1 YEAR OR ARE AT FINAL GRADE SHALL HAVE PERMANENT STABILIZATION APPLIED WITHIN 7 DAYS OF LAST EARTHWORK DISTURBANCE.

INSPECTION NOTES

1. CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND LOGGED BY THE CONTRACTOR FOR INSPECTION. LOGGING SHALL BE WEEKLY AND AFTER EVERY 1/2" RAINFALL EVENT. REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.

2. CONTRACTORS INSPECTOR SHALL BE A QUALIFIED INDIVIDUAL. ONLY A QUALIFIED INSPECTION PERSONNEL IS TO PERFORM THE INSPECTIONS. SITE INSPECTIONS SHALL BE DONE WEEKLY AND WITHIN 24 HRS AFTER EVERY RAINFALL EVENT EXCEEDING 1/2" OF RAINFALL. ALL NECESSARY REPAIRS SHOULD BE IMPLEMENTED IMMEDIATELY AFTER SUCH INSPECTIONS.

3. CONTRACTOR'S INSPECTOR SHALL BE RESPONSIBLE FOR PREPARING AND SIGNING WEEKLY AND ALL INTERMEDIATE EROSION CONTROL INSPECTION REPORTS AFTER EVERY INSPECTION, WHICH INCLUDE BUT NOT LIMITED TO (DISTURBED AREAS, MATERIAL STORAGE AREAS, EROSION AND SEDIMENT CONTROLS; DISCHARGE LOCATIONS AND VEHICLE ENTRANCE/EXIT LOCATIONS). SUCH REPORTS SHALL BE MADE AVAILABLE TO OWNER, ENGINEER AND CITY / STATE OFFICIALS UPON THEIR REQUEST.

4. REPORTS SHALL BE KEPT FOR 3 YEARS AFTER TERMINATION OF THE CONSTRUCTION ACTIVITIES.

5. CONTRACTOR MAY SUBMIT A WAIVER REQUEST TO THE LOCAL AND STATE GOVERNING AUTHORITIES FOR A REDUCTION TO MONTHLY INSPECTIONS IF THE SITE WILL BE STABILIZED AND DORMANT FOR A LONG PERIOD, AND/OR THE RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS FOR AN EXTENDED PERIOD OF TIME (FROZEN GROUND).

6. FOR BMPS THAT REQUIRE REPAIR OR MAINTENANCE - NON SEDIMENT POND BMPS ARE TO BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS ARE TO BE REPAIRED OR CLEANED OUT WITHIN 10 DAYS OF INSPECTION.

7. FOR BMPS THAT DO NOT MEET THE INTENDED FUNCTION, A NEW BMP SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

8. FOR MISSING BMPS REQUIRED, THE MISSING BMPS SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

SPILLS AND CONTAMINATION

1. CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:
   a. PREVENT SPILLS
   a. USE PRODUCTS UP
   b. FOLLOW LABEL DIRECTIONS FOR DISPOSAL
   c. REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
   d. RECYCLE WASTES WHENEVER POSSIBLE
   e. DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND
   f. DON'T POUR DOWN THE SINK, DOOR DRAIN OR SEPTIC TANKS
   g. DON'T BURY CHEMICALS OR CONTAINERS
   h. DON'T BURN CHEMICALS OR CONTAINERS
   i. DON'T MIX CHEMICALS TOGETHER

2. ANY DISCHARGE OF PETROLEUM OR PETROLEUM PRODUCTS OF LESS THAN 25 GALLONS ONTO A PERVIOUS SURFACE SHALL BE LEGALLY REMOVED AND PROPERLY TREATED OR PROPERLY DISPOSED OF, OR OTHERWISE REMEDIATED, SO THAT NO CONTAMINATION FROM THE DISCHARGE REMAINS ON-SITE. SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO THE NORTH CAROLINA'S EPA, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF THE RELEASE. ALL SPILLS WHICH CONTACT WATERS OF THE STATE MUST BE REPORTED TO THE CURRENT STATE'S EPA.

3. SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LAND FILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO THE NORTH CAROLINA'S EPA.

4. CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF AT THE NORTH CAROLINA'S EPA APPROVED CD&D LAND FILL.

5. PROCESS WASTE WATER/LEACHATE MANAGEMENT : EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER AND DOES NOT INCLUDE OTHER WASTE STREAMS/DISCHARGES SUCH AS VEHICLE AND/OR EQUIPMENT WASHING, ON-SITE SEPTIC LEACHATE CONCRETE WASH OUTS, WHICH ARE CONSIDERED PROCESS WASTEWATERS. ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT, LEACHATE OR SEPTAGE IS DISCHARGED; IT MUST BE ISOLATED FOR COLLECTION AND PROPER DISPOSAL AND CORRECTIVE ACTIONS TAKEN TO ELIMINATE THE SOURCE OF WASTE WATER.

6. WASTES GENERATED BY CONSTRUCTION ACTIVITIES (I.E. CONSTRUCTION MATERIALS SUCH AS PAINTS, SOLVENTS, FUELS, CONCRETE, WOOD, ETC) MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS. HAZARDOUS AND TOXIC SUBSTANCES ARE USED ON VIRTUALLY ALL CONSTRUCTION SITES. GOOD MANAGEMENT OF THESE SUBSTANCES IS ALWAYS NEEDED.

7. NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED OR BURNED ON-SITE.

8. HANDLING CONSTRUCTION CHEMICALS: MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.

9. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVE GROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVE GROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. CONTAMINATED SOILS MUST BE PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY REGULATIONS. SPCC PLAN AND APPROVALS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

10. CONTAMINATED SOILS: IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LAND FILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION / DEMOLITION DEBRIS LAND FILL). NOTE THOSE STORM WATER RUNOFFS ASSOCIATED WITH CONTAMINATED SOILS ARE NOT BE AUTHORIZED UNDER CURRENT REGULATIONS OF CONSTRUCTION ACTIVITIES.

11. CONTRACTOR SHALL TAKE PREVENTIVE MEASURES FOR WATER DISCHARGES FROM CONTAMINATED SOILS BY ANY MEANS POSSIBLE, INCLUDING THE FOLLOWING:
    11.1. THE USE OF BERMS, TRENCHES, AND PITS TO COLLECT CONTAMINATED RUNOFF AND PREVENT DISCHARGES.
    11.2. PUMPING RUNOFF INTO A SANITARY SEWER (WITH PRIOR WRITTEN APPROVAL OF THE SANITARY SEWER SERVICE OPERATOR) OR INTO A CONTAINER FOR TRANSPORT TO AN APPROPRIATE TREATMENT/DISPOSAL FACILITY.
    11.3. COVERING AREAS OF CONTAMINATION WITH TARPS OR OTHER METHODS THAT PREVENT STORMWATER FROM COMING INTO CONTACT WITH CONTAMINATED MATERIALS.

TEMPORARY SEEDING

1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.

2. TEMPORARY SEEDING / STABILIZATION SHALL BE APPLIED WITHIN THE FOLLOWING TIME FRAMES FOR VARIOUS AREAS OF THE SITE:
   2.1. ANY DISTURBED AREA WITHIN 50 FEET OF A WATERCOURSE AND NOT AT FINAL GRADE SHALL BE SEEDED AND MULCHED WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE, IF THAT AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.
   2.2. ALL CONSTRUCTION ACTIVITIES IN ANY DISTURBED AREA, INCLUDING SOIL STOCKPILES THAT WILL BE IDLE FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A WATERCOURSE SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE IN THE AREA.
   2.3. DISTURBED AREAS THAT WILL BE IDLE OVER THE WINTER SHALL BE SEEDED AND MULCHED PRIOR TO NOVEMBER 1.

3. THE SEED BED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHOULD NOT BE POSTPONED IF IDEAL SEED BED PREPARATION IS NOT POSSIBLE.

4. TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED.

5. ALL SEED MIXES AND SEEDING RATES USED SHALL BE APPROVED BY THE LOCAL GOVERNING AUTHORITY AND THE OWNER.

6. SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER, SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

7. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH, WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE, VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION. IF MULCH IS USED, FOLLOW THE REQUIREMENTS AND INSTRUCTIONS IN THE MULCH APPLICATION.

MULCH

1. MULCH AND OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

2. MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:
   2.1. STRAW SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES) THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND PLACE TWO 45-LB BALES OF STRAW IN EACH SECTION.
   2.2. WOOD CELLULOSE FIBER SHOULD BE USED AT 2,000 LB.AC, OR 46 LB/1,000 SQ. FT.
   2.3. ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS AND ROLLED EROSION CONTROL PRODUCTS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD MULCH/CHIPS APPLIED AT 10-20 TONS/AC.

3. MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH.
   3.1. USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 INCHES.
   3.2. USE MULCH NETTINGS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING REQUIREMENTS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
   3.3. FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.
   3.4. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB/AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB/100 GAL. OF WOOD CELLULOSE FIBER.

DUST CONTROL NOTES

1. DUST CONTROL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. IF POSSIBLE GRADING SHALL BE DONE BY PHASING IN ORDER TO MINIMIZE THE AMOUNT OF LAND DISTURBANCE AT ONE TIME. IF PHASING IS NOT AN OPTION, DUST SHALL BE CONTROLLED WITH WATER DURING EARTHWORK OPERATIONS. AFTER EARTHWORK OPERATIONS, THE EXPOSED SOILS SHALL BE COVERED WITH STRAW OR MULCH UNTIL SEEDED.

2. DUST CONTROL OR DUST SUPPRESSANTS MAY BE USED TO PREVENT NUISANCE CONDITIONS WHEN APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION. WHEN USED, SUPPRESSANTS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND IN A MANNER, WHICH PREVENTS A DISCHARGE TO WATERS OF THE STATE. SUFFICIENT DISTANCE MUST BE PROVIDED BETWEEN APPLICATIONS AND NEARBY BRIDGES, CATCH BASINS, AND OTHER WATERWAYS. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN RAIN IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. OIL MAY NOT BE APPLIED FOR DUST CONTROL.

3. SUGGESTED METHODS OF CONSTRUCTION DUST CONTROL MAY INCLUDE THE FOLLOWING:
   3.1. CONSTRUCTION SEQUENCING AND DISTURBING ONLY SMALL AREAS AT A TIME CAN GREATLY REDUCE PROBLEMATIC DUST FROM THE SITE. IF LAND MUST BE DISTURBED, ADDITIONAL TEMPORARY STABILIZATION MEASURES SHOULD BE CONSIDERED PRIOR TO DISTURBANCES.
   3.2. APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUSE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS.
   3.3. SPRAY DISTURBED SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS MAY BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
   3.4. GRADED ROADWAYS AND OTHER SUITABLE AREAS MAY BE STABALIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
   3.5. EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED TO THE EXTENT POSSIBLE. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHTS TO CONTROL AIR CURRENTS AND BLOWING SOIL.
   3.6. WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEED TO ACCOMPLISH SATISFACTORY CONTROL.
   3.7. PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET-TYPE ENDLOADER OR SCRAPER.

DEWATERING

DEWATERING REFERS TO THE ACT OF REMOVING AND DISCHARGING WATER FROM EXCAVATED AREAS ON CONSTRUCTION SITES. UTILITY LINE CONSTRUCTION OR FROM SEDIMENT TRAPS OR BASINS ON CONSTRUCTION SITES. GIVEN THE UNIQUE CONDITIONS AT ANY PARTICULAR CONSTRUCTION SITE, ANY OR ALL OF THE PRACTICES MAY APPLY. IN ALL CASES, EVERY EFFORT SHALL BE MADE TO ELIMINATE SEDIMENT POLLUTION ASSOCIATED WITH DEWATERING.

PRACTICES FOR DEWATERING EXCAVATED AREAS

1. PUMPING OF WATER TO AN EXISTING SEDIMENT BASIN OR TRAP IN WHICH THE ENTIRE VOLUME OF WATER FROM THE AREA TO BE DEWATERED CAN BE CONTAINED WITHOUT DISCHARGE TO RECEIVING WATERS.
2. PUMPING OF WATER TO AN EXISTING SEDIMENT BASIN OR TRAP SUCH THAT THE ENTIRE VOLUME OF WATER FROM THE AREA TO BE DEWATERED CAN BE MANAGED WITHOUT EXCEEDING THE DESIGN OUTFLOW FROM THE SEDIMENT CONTROL STRUCTURE.
3. USE OF A STRAW BALE/SILT FENCE PIT OR TRAP AS DESCRIBED HEREIN AND APPROVED BY THE LOCAL GOVERNING AUTHORITY,
4. PUMPING WATER THROUGH A GEOTEXTILE BAG MADE SPECIFICALLY FOR THIS PURPOSE,
5. A WELL-VEGETATIVE FILTER STRIP, CAPABLE OF WITHSTANDING THE VELOCITY OF DISCHARGED WATER WITHOUT ERODING, INCLUDING THE INSTALLATION OF ENERGY DISSIPATION (HAYBALES, RIPRAP OR SHEET OF PLYWOOD) AT THE PUMP DISCHARGE,
6. USE A SUMP PIT TO REDUCE THE PUMPING OF MUD.

DEWATERING OF SEDIMENT TRAPS AND BASINS. IN ALL CASES, WATER REMOVED FROM TRAPS AND BASINS SHALL BE DISCHARGED SO THAT IT PASSES THROUGH A SEDIMENT CONTROL DEVICE APPROVED BY THE LOCAL GOVERNING AUTHORITY PRIOR TO ENTERING RECEIVING WATERS. PRACTICES FOR DEWATERING OF TRAPS AND BASINS MAY INCLUDE SOME OR ALL OF THE FOLLOWING AS MAY BE APPROVED AND APPLICABLE. IN ALL CASES, THE DEWAERING OPERATIONS UTILIZED MUST BE CONTINUOUSLY MONITORED BY THE CONTRACTOR.

1. USE OF A STRAW BALE/SILT FENCE PIT OR TRAP.
   1.1. AN EXCAVATED BASIN (APPLICABLE TO "STRAW BALE/SILT FENCE PIT") MAY BE LINED WITH FILTER FABRIC TO HELP REDUCE SCOUR AND TO PREVENT EROSION OF SOIL FROM WITHIN THE STRUCTURE. IT MAY ALSO BE HELPFUL TO DIRECT THE DISCHARGE ONTO A HAY OR STRAW BALE OR RIPRAP.
   1.2. MEASURES SHALL CONSIST OF STRAW BALES, SILT FENCE AND A STONE OUTLET CONSISTING OF A COMBINATION OF 4-8 INCH RIPRAP AND ½ TO 2 INCH AGGREGATE AND A WET STORAGE PIT ORIENTED AS SHOWN IN DRAWING.
   1.3. THE EXCAVATED AREA SHOULD BE A MINIMUM OF 3 FEET BELOW THE BASE OF THE PERIMETER MEASURES (STRAW BALES OR SILT FENCE).
   1.4. ONCE THE WATER LEVEL NEARS THE CREST OF THE STONE WEIR (EMERGENCY OVERFLOW), THE PUMP MUST BE STOPPED WHILE THE STRUCTURE DRAINS DOWN TO THE ELEVATION OF THE WET STORAGE.
   1.5. THE WET STORAGE PIT MAY BE DEWATERED ONLY AFTER A MINIMUM OF 6 HOURS OF SEDIMENT SETTLING TIME. THIS EFFLUENT SHOULD BE PUMPED ACROSS A WELL-VEGETATED AREA OR THROUGH A SILT FENCE PRIOR TO ENTERING A WATERCOURSE.
   1.6. ONCE THE DEVICE HAS BEEN REMOVED, GROUND CONTOURS SHALL BE RETURNED TO ORIGINAL CONDITION.

2. PUMPING WATER THROUGH A GEOTEXTILE BAG MADE SPECIFICALLY FOR THIS PURPOSE.
   2.1. THE BAG SHALL BE INSTALLED ON A VERY SLIGHT SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAG WITHOUT CREATING MORE EROSION.
   2.2. THE INLET OPENING OF THE DEWATERING DEVICE SHALL HAVE A FILL SPOUT LARGE ENOUGH TO ACCOMMODATE THE DISCHARGE HOSE AND SHALL USE TWO STAINLESS STEEL STRAPS TO SECURE THE HOSE AND PREVENT PUMPED WATER FROM ESCAPING WITHOUT BEING FILTERED.
   2.3. THE BAG SHOULD BE PLACED ON AN AGGREGATE OR HAY BALE BED TO MAXIMIZE WATER FLOW THROUGH THE ENTIRE SURFACE AREA OF THE BAG.
   2.4. THE FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR PASS WATER AT A REASONABLE RATE.
   2.5. FLOW RATES VARY DEPENDING ON THE SIZE OF THE DEWATERING DEVICE, AMOUNT OF SEDIMENT DISCHARGED INTO THE DEWATERING DEVICE, THE TYPE OF GROUND, ROCK, OR OTHER SUBSTANCE UNDER THE BAG AND THE DEGREE OF THE SLOPE ON WHICH THE BAG LIES. THE FILTER BAG SHOULD BE SIZED TO ACCOMMODATE THE ANTICIPATED FLOW RATES FROM THE TYPE OF PUMP USED. IN ALL CASES FOLLOW THE MANUFACTURERS RECOMMENDATIONS FOR PUMPING FLOW RATES.
   2.6. THE FILTER BAG CAN BE LEFT IN PLACE AFTER CUTTING THE TOP OFF AND SEEDING AND MULCHING THE ACCUMULATED SEDIMENT OR REMOVED AND DISPOSED OF OFFSITE IN AN APPROVED LANDFILL.

3. A WELL-VEGETATIVE FILTER STRIP, CAPABLE OF WITHSTANDING THE VELOCITY OF DISCHARGED WATER WITHOUT ERODING, INCLUDING THE INSTALLATION OF ENERGY DISSIPATION (HAYBALES, RIPRAP OR SHEET OF PLYWOOD) AT THE PUMP DISCHARGE, SUCH OTHER METHODS AS MAY BE APPROVED BY THE LOCAL GOVERNING AUTHORITY.

4. REGARDLESS OF THE TYPE OF TREATMENT, ALWAYS USE A FLOATING SUCTION HOSE TO PUMP THE CLEANER WATER FROM THE TOP OF THE POND, AS THE CLEANER WATER IS PUMPED, THE SUCTION HOSE WILL LOWER AND EVENTUALLY ENCOUNTER SEDIMENT-LADEN WATER. AT THIS POINT CEASE PUMPING OPERATIONS AND REMOVE THE REMAINDER OF THE TRAPPED SEDIMENT WITH MACHINERY. EVEN WHEN PUMPING FROM THE TOP OF THE WATER COLUMN, PROVISIONS MUST STILL BE MADE TO FILTER WATER AS REQUIRED IN THIS SECTION PRIOR TO DISCHARGING TO A STREAM. DURING THE DEWATERING, PERSONNEL SHOULD BE ASSIGNED TO MONITOR PUMPING OPERATIONS AT ALL TIMES TO ENSURE THAT SEDIMENT POLLUTION IS ABATED. PUMPING SEDIMENT-LADEN WATER INTO THE WATERS OF THE STATE WITHOUT FILTRATION IS PROHIBITED.

5. THE DEWATERING DEVICE MUST BE SIZED (AND OPERATED) TO ALLOW PUMPED WATER TO FLOW THROUGH THE FILTERING APPARATUS WITHOUT EXCEEDING THE CAPACITY OF THE STRUCTURE.

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	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

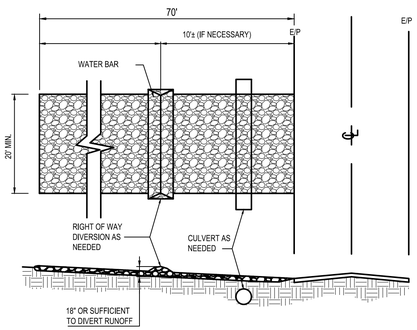
ENDEAVOR 2.0
SWPP NOTES

C-010

PLOT DATE:

CONSTRUCTION ENTRANCE NOTES

1. STONE SIZE - NO. 2 STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON THE PLAN.
3. PAVEMENT THICKNESS - STONE LAYER SHALL BE 6" THICK FOR STANDARD DUTY ACTIVITY AND 10" THICK FOR HEAVY DUTY ACTIVITY.
4. DRIVEWAY WIDTH - THE ENTRANCE SHALL BE AT LEAST 20' WIDE. CONTRACTOR SHALL ENSURE ALL VEHICLES UTILIZE THE CONSTRUCTION ENTRANCE UNTIL PAVEMENT IS IN PLACE.
5. BEDDING-A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE SPECIFICATIONS SHOWN BELOW.
6. CULVERT-A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
7. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
8. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
9. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.
10. THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.



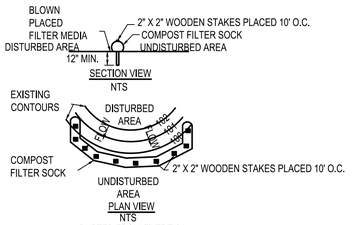
A1 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (MFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS
TWO-PLY SYSTEMS					
INNER CONTAINMENT NETTING	HDPE BIAXIAL NET				
	CONTINUOUSLY WOUND				
	FUSION-WELDED JUNCTURES				
	3/4" X 3/4" MAX. APERTURE SIZE				
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER & NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)				
	3/16" MAX. APERTURE SIZE				
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS					

COMPOST SHALL MEET THE FOLLOWING STANDARDS:

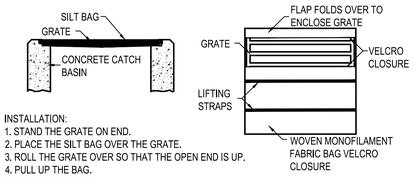
ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS MAXIMUM



ADAPTED FROM FILTREXX

1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT.
2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
4. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH ½ INCH STORM RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
5. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

A2 COMPOST FILTER SOCK
N.T.S.

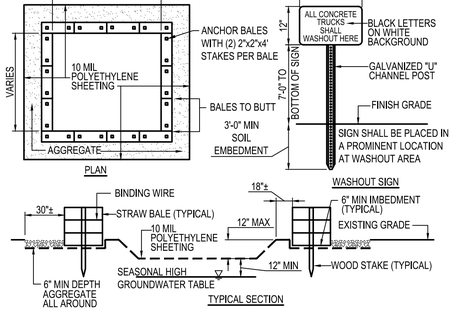


INSTALLATION:
1. STAND THE GRATE ON END.
2. PLACE THE SILT BAG OVER THE GRATE.
3. ROLL THE GRATE OVER SO THAT THE OPEN END IS UP.
4. PULL UP THE BAG.
5. TUCK THE FLAP IN.
6. PRESS THE VELCRO STRAPS TOGETHER.
7. BE SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP OR THE SILT BAG WILL NOT WORK PROPERLY.
8. HOLDING THE HANDLES, CAREFULLY PLACE THE SILT BAG WITH THE GRATE INSERTED INTO THE CATCH BASIN FRAME.

MAINTENANCE:
TO ENSURE PROPER OPERATION REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS IN MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR. REMOVE FINE MATERIAL FROM INSIDE SILT BAG AS NEEDED. DISPOSE OF SILT BAG NO LONGER IN USE AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY.

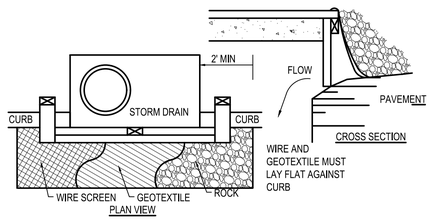
INLET INSPECTION:
TO INSPECT INLET, REMOVE SILT BAG WITH GRATE INSIDE, INSPECT CATCH BASIN AND REPLACE SILT BAG BACK INTO GRATE FRAME.
NOTE:
PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. THE SILT BAG MUST NEVER BE USED WHERE OVERFLOW MAY ENDANGER AN EXPOSED SLOPE.

C3 SILT BAG PROTECTION
N.T.S.



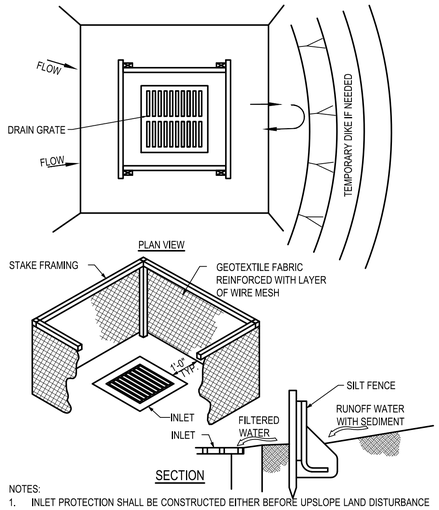
NOTES:
1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

A3 CONCRETE WASHOUT AREA
N.T.S.



1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
2. CONSTRUCT A WOODEN FRAME OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER, THE END SPACERS SHALL BE A MINIMUM OF 1 FT. BEYOND BOTH ENDS OF THE THROAT OPENING. THE ANCHORS SHALL BE NAILED TO 2-BY-4-IN. STAKES DRIVEN ON THE OPPOSITE SIDE OF THE CURB.
3. THE WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC AND STONE. IT SHALL BE A CONTINUOUS PIECE WITH A MINIMUM WIDTH OF 30 IN. AND 4 FT. LONGER THAN THE THROAT LENGTH OF THE INLET, 2 FT. ON EACH SIDE.
4. GEOTEXTILE CLOTH SHALL HAVE AN EQUIVALENT OPENING SIZE (EOS) OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE AT LEAST THE SAME SIZE AS THE WIRE MESH.
5. THE WIRE MESH AND GEOTEXTILE CLOTH SHALL BE FORMED TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET AND SECURELY FASTENED TO THE 2-BY-4-IN. FRAME.
6. TWO-INCH STONE SHALL BE PLACED OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE CLOTH.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE STONE AND/OR GEOTEXTILE REPLACED WHEN CLOGGED WITH SEDIMENT.

C4 CURB INLET PROTECTION
N.T.S.



NOTES:
1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
2. SILT FENCE SHALL BE GEOTEXTILE FABRIC, PER STATE'S DEPARTMENT OF TRANSPORTATION STANDARDS, AND SHOULD BE CUT FROM A CONTINUOUS ROLL TO AVOID JOINTS.
3. STAKES SHALL BE 1" x 2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET. STAKES SHALL BE SPACED AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND SECURELY DRIVEN INTO THE GROUND (MINIMUM OF 8 INCHES). THE TOP OF THE FRAME SHALL BE AT LEAST 6 IN. BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. THE SILT FENCE SHALL BE STAPLED WITH HEAVY DUTY WIRE STAPLES AT LEAST 1/2 INCH LONG, TO THE WOODEN STAKES, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE HEIGHT OF THE FILTER BARRIER SHALL BE A MINIMUM OF 15 INCHES AND SHALL NOT EXCEED 18 INCHES (PLATE 1.08B)
6. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
7. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
8. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
9. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 IN. HIGHER THAN THE TOP OF THE FRAME.

MAINTENANCE:
SILT FENCE SHOULD BE INSPECTED REGULARLY AND FREQUENTLY AS WELL AS AFTER EACH RAINFALL EVENT TO ENSURE THAT THEY ARE INTACT AND THERE ARE NO GAPS AT THE FENCE-GROUND INTERFACE OR TEARS ALONG THE LENGTH OF THE FENCE. IF GAPS OR TEARS ARE FOUND, THEY SHOULD BE REPAIRED OR THE FABRIC REPLACED IMMEDIATELY. ACCUMULATED SEDIMENTS SHOULD BE REMOVED FROM THE FENCE BASE WHEN THE SEDIMENT REACHES ONE-THIRD TO ONE-HALF THE HEIGHT OF THE FENCE. SEDIMENT REMOVAL SHOULD OCCUR MORE FREQUENTLY IF ACCUMULATED SEDIMENT IS CREATING NOTICEABLE STRAIN ON THE FABRIC AND THERE IS THE POSSIBILITY OF THE FENCE FAILING FROM A SUDDEN STORM EVENT. WHEN THE SILT FENCE IS REMOVED, THE ACCUMULATED SEDIMENT SHOULD BE REMOVED.

A4 SILT BARRIER
N.T.S.

NOTES:
1) SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

2) ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

3) TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.

4) WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

5) WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

6) THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.

7) THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED.

8) POSTS SHALL BE A MINIMUM OF 5 FEET LONG, 2 INCHES IN DIAMETER AND SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.

9) THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

10) THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

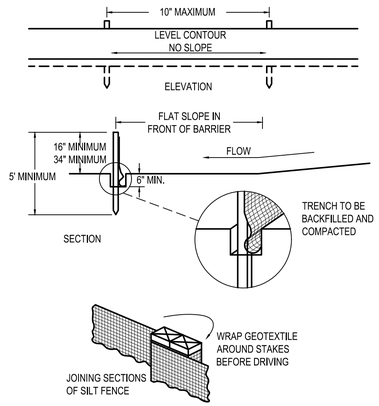
11) WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

12) THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

13) SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

14) SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: A) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, B) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR C) OTHER PRACTICES SHALL BE INSTALLED.

MAINTENANCE:
SILT FENCE SHOULD BE INSPECTED REGULARLY AND FREQUENTLY AS WELL AS AFTER EACH RAINFALL EVENT TO ENSURE THAT THEY ARE INTACT AND THERE ARE NO GAPS AT THE FENCE-GROUND INTERFACE OR TEARS ALONG THE LENGTH OF THE FENCE. IF GAPS OR TEARS ARE FOUND, THEY SHOULD BE REPAIRED OR THE FABRIC REPLACED IMMEDIATELY. ACCUMULATED SEDIMENTS SHOULD BE REMOVED FROM THE FENCE BASE WHEN THE SEDIMENT REACHES ONE-THIRD TO ONE-HALF THE HEIGHT OF THE FENCE. SEDIMENT REMOVAL SHOULD OCCUR MORE FREQUENTLY IF ACCUMULATED SEDIMENT IS CREATING NOTICEABLE STRAIN ON THE FABRIC AND THERE IS THE POSSIBILITY OF THE FENCE FAILING FROM A SUDDEN STORM EVENT. WHEN THE SILT FENCE IS REMOVED, THE ACCUMULATED SEDIMENT SHOULD BE REMOVED.



CRITERIA FOR GEOTEXTILE FABRIC SILT FENCE, PER CURRENT STATE'S DOT SPECIFICATIONS.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LB. MINIMUM	ASTM D 4632
MINIMUM BURST STRENGTH	200 PSI MINIMUM	
MINIMUM PERMITTNITY	1x10-2sec-1	ASTM D 4491
APPARENT OPENING SIZE	AOS < 0.84 mm	ASTM D 4751
UV EXPOSURE STRENGTH RETENTIOL	70%	ASTM G 4335
MAXIMUM ELONGATION AT 60 LBS.	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180N)	ASTM D 4533

A5 SILT FENCE
N.T.S.

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
SWPP DETAILS

C-011

PLOT DATE:

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES
GENERAL PERMIT NO. NCG010000

TO DISCHARGE STORMWATER UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

for:

Construction Activities that are also Subject to the North Carolina Sedimentation Pollution Control Act of 1973

In compliance with the provisions of North Carolina General Statute (G.S.) 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission and the Federal Water Pollution Control Act, as amended, this permit is hereby issued to all owners or operators, hereinafter permittees, which are covered by this permit as evidenced by receipt of a Certificate of Coverage by the Environmental Management Commission to allow the **discharge of stormwater to the surface waters of North Carolina** or to a separate storm sewer system conveying discharges to surface waters in accordance with the terms and conditions set forth herein.

Coverage under General Permit No. NCG010000, hereafter referred to as NCG01, is applicable to:

All owners or operators of stormwater point source discharges associated with construction activities including clearing, grading, or excavation activities resulting in the disturbance of land greater than or equal to one acre, or that are part of a common plan of development of that size ***that are also subject to the North Carolina Sedimentation Pollution Control Act of 1973 (SPCA)***, are hereby authorized to discharge stormwater to the surface waters in accordance with the terms and conditions set forth herein. Failure to receive coverage under this permit or violations of any of the conditions listed may result in assessment of state or federal civil or criminal penalties for each day of each violation.

The General Permit shall become effective on April 1, 2019.

The General Permit shall expire at midnight on **March 31, 2024**.

Signed this day March 29, 2019.

S. Daniel Smith
Interim Director, Division of Energy, Mineral and Land Resources
By the Authority of the Environmental Management Commission

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PART I – NCG01 PERMIT COVERAGE

This permit applies to all owners or operators of stormwater discharges associated with construction activities such as clearing, grading, and excavation, that result in the disturbance of a land area greater than or equal to one acre, or that are part of a common plan of development of that size or greater ***that are also subject to the North Carolina Sedimentation Pollution Control Act of 1973 (SPCA)***. This permit may also be issued to stormwater discharges from like activities deemed by the Division of Energy, Mineral, and Land Resources (DEMLR) to be similar to these operations in process or stormwater discharges. This permit shall not apply to land-disturbing activities that are covered under the NCG020000 (Mining Activities) permit or the NCG120000 (Landfills) permit.

The SPCA requires that the persons engaged in subject construction activities develop and adhere to an Erosion and Sedimentation Control (E&SC) Plan. The Sedimentation Control Commission and DEMLR have created and adopted a North Carolina Erosion and Sediment Control Planning and Design Manual describing recommended sedimentation control techniques for construction activities.

A person seeking coverage under this permit shall take the following steps in the following order:

1. Develop an E&SC plan that adheres to the SWPPP requirements of this permit, the SPCA and 15A NCAC 04B .0101-.0132. The North Carolina Erosion and Sediment Control Planning and Design Manual shall be used as guidance in meeting the applicable requirements.
2. Obtain approval of the E&SC plan by either DEMLR or the appropriate state delegated local entity (hereafter known as the "E&SC plan authority").
3. Submit an electronic Notice of Intent (e-NOI) to DEMLR with documentation of the E&SC plan approval scanned and uploaded. The e-NOI is available at https://deq.nc.gov/NCG01. In addition, pay the general annual permit fee provided for in § 143-215.3D. DEMLR shall email the COC within three business days (or 24 business hours for a project being reviewed under DEMLR's Express review program) after the submittal of a complete and correct e-NOI and the receipt of the general permitting fee.
4. Commence the construction activity after receipt of the COC.
5. Abide by the conditions of both the NCG01 permit and the E&SC plan until completion of the construction activity and establishment of permanent ground stabilization.
6. Contact the E&SC plan authority after construction is complete and the site is permanently stabilized, contact the E&SC plan authority for the final/close out inspection of the E&SC plan.
7. Submit an electronic Notice of Termination (e-NOT) with a scan of the close-out inspection report uploaded. The e-NOT is available at https://deq.nc.gov/NCG01. DEMLR shall email confirmation of the close-out of the COC within three business days after the submittal of a complete and correct e-NOT.

The discharges allowed by this General Permit shall not cause or contribute to violations of North Carolina Water Quality Standards for surface waters and wetlands (15A NCAC 02B .0200). Discharges allowed by this permit must meet all applicable water quality certification or permit requirements as outlined in 15A NCAC 02H .0500 and 02H .1300. This permit does not relieve the permittee from responsibility for compliance with any other applicable federal, state, or local law, rule, standard, ordinance, order, judgment, or decree. This General Permit does not cover any other point source discharge to surface waters of the state, nor does it cover activities or discharges that are covered by an individual NPDES permit.

Any owner or operator of a subject construction activity not wishing to be covered or limited by this General Permit may apply for an individual NPDES permit in accordance with NPDES procedures in 15A NCAC 02H .0100, stating the reasons supporting the request. Any application for an individual permit

should be made at least 180 days prior to the time the permit is needed unless waived by the Director (see Part IV Section B of this permit).

PART II – STORMWATER POLLUTION PREVENTION PLAN

The Stormwater Pollution Prevention Plan for this permit shall include the approved **Erosion and Sedimentation Control (E&SC) Plan** as well as any requirements in this Part that exceed the approved E&SC Plan. Items that are required in the SWPPP but are not part of the approved E&SC Plan may include, at a minimum, Section E, Item (2) *[Required Timeframes for Temporary Ground Stabilization]*, Section F *[Materials Handling]*. DEMLR provides two sample plan sheets that permittees may add to their E&SC Plan set to fulfill Sections E(2) and F of this permit at https://deq.nc.gov/NCG01.

Recommendations for preparing the E&SC plan as well as for designing, constructing, and maintaining the erosion and sedimentation control practices are contained in the North Carolina Erosion and Sediment Control Planning and Design Manual.

SECTION A: REQUIRED COMPONENTS OF THE STORMWATER POLLUTION PREVENTION PLAN

The E&SC Erosion and Sedimentation Control Plan shall include, at a minimum, the following components and **those components shall be in compliance with all conditions of this permit**. Hard and/or digital copies shall be submitted in accordance with the specifications of the E&SC plan authority.

1. Location Information
____ Project location & labeled vicinity map (roads, streets, landmarks)
____ North arrow and scale
____ Identification of the River Basin
____ A copy of site disturbed area located on applicable USGS quadrangle and hardbound copy of the NRCS Soils maps to scale
____ Latitude and longitude (in decimal degrees) at the project entrance

2. Narrative and Construction Sequence
____ Narrative describing the nature & purpose of the construction activity
____ Construction sequence related to erosion and sediment control (including installation of critical measures prior to the initiation of the land-disturbing activity & removal of measures after areas they serve are permanently stabilized). Address all phases of construction and necessary practices associated with temporary stream bypasses and/or crossings
____ Estimated start and end dates

3. General Site Features
____ Property lines
____ Existing and proposed contours (topographic lines)
____ Stockpiled topsoil or subsoil locations
____ Limits of disturbed area (with acreage labeled) within which all construction, material storage, grading, and related activities occur, including the following items as applicable:
- Access to E&SC measures, lots that will be disturbed, and utilities that may extend offsite.
- Temporary access and haul roads, other than public roads, constructed or used in connection with the land-disturbing activity

- Borrow and waste areas created by the applicant. If the land-disturbing activity and any related borrow or waste activity are not conducted by the same person, they shall be considered separate land-disturbing activities
- Offsite borrow pits if the borrow pit is a construction support activity to the development

____ Planned and existing building locations and elevations, if applicable
____ Planned & existing road locations & elevations, including temporary access roads, if applicable
____ Profiles of streets, utilities, and permanent ditch lines, if applicable
____ Lot lines and/or building numbers, if applicable
____ Easements and drainageways, particularly required for offsite affected areas, if applicable
____ Location and details associated with any onsite stone crushing or other processing of material excavated, if applicable. A mining permit will be required if the affected area associated with excavation, processing, stockpiles and transport of such materials comprises one or more acres, and materials will be leaving the development tract

4. Site Drainage Features
____ Existing and planned drainage patterns (include off-site areas that drain through project and address temporary and permanent conveyance of stormwater over graded slopes)
____ Drainage area map
____ Surface waters, including the limits of wetlands, streams, lakes and ponds and all required local or state buffer zones as well as impact maps by the construction activity to these sensitive areas.
____ Method used to determine acreage of land being disturbed and drainage areas to all proposed E&SC measures (e.g. delineation map)
____ Size, pipe material and location of culverts and sewers
____ Soil information throughout the site and below culvert storm outlets, including soil type and special characteristics
____ Name and classification of receiving water course where discharges are to occur

5. Plans Showing E&SC Measures
____ Legend (provide appropriate symbols for all measures and reference them to the construction details)
____ Location of temporary and permanent E&SC measures
____ Location of permanent stormwater quality and quantity control measures
____ Construction drawings and details for temporary and permanent measures, including outlet structures. Show measures to scale on plan and include proposed contours where necessary. Ensure design storage requirements are maintained through all phases of construction.
____ Specifications for ground stabilization
____ Maintenance requirements for measures
____ Contact person responsible for maintenance, if the permittee wishes to designate one. If not, the financially responsible organization will be the contact for maintenance.
____ A note stating that material handling procedures for the items required in Part II, Section F will be followed.
____ Standard details for structural BMPs to be installed to manage the anticipated materials listed in Part II, Section F such as construction debris management, concrete washout, paint washout, petroleum product storage and pesticide/herbicide handling, along with spill prevention practices.

6. Calculations
____ Calculations for peak discharges of runoff from each outlet at pre-development, during construction and at completion. Provide all supporting data for the computation methods used (rainfall data for required storm events, time of concentration/storm duration, and runoff coefficients).

____ Design calculations for culverts and storm sewers (include headwater, tailwater and outlet velocities)
____ Discharge and velocity calculations for open channel and ditch flows (easement & rights-of-way)
____ Design calculations for cross sections and method of stabilization for existing and planned channels (include temporary linings). Include appropriate permissible velocity and shear stress.
____ Design calculations and construction details for energy dissipaters below culvert and storm sewer outlets (include stone/material specs & apron dimensions). Avoid discharges on fill slopes.
____ Design calculations and dimensions for sediment traps and basins
____ Total and disturbed drainage areas for silt fencing and other sediment controls

7. Vegetative Stabilization Shown on Plans
____ Area & acreage to be stabilized with vegetation
____ Method of soil preparation
____ Seed type & rates (temporary & permanent)
____ Fertilizer type and rates
____ Mulch type and rates (include mulch anchoring methods)

8. Documentation
____ Completed, signed & notarized **Financial Responsibility/Ownership Form**
____ Certificate of assumed name, if the owner is a partnership
____ Name of Registered Agent (if applicable)
____ Copy of the most current Deed for the site. Please make sure the deed(s) and ownership information are consistent between the plan sheets, local records and this form.
____ Provide latitude & longitude (in decimal degrees) at the project entrance.
____ Army Corps 404 permit and Water Quality 401 certification, if required for project, or a complete application if these items are not yet issued.
____ DWR Buffer Authorization, if required for project
____ Copies of any recorded easements and/or agreements with adjoining property owners for landlocked parcels

SECTION B: DESIGN AND CONSTRUCTION STANDARDS FOR EROSION AND SEDIMENT CONTROL MEASURES

1. Objective of E&SC Measures
E&SC Measures shall be designed and constructed to prevent off-site sedimentation damage.

2. Area to Be Covered by the E&SC Plan
The E&SC plan shall include the limits of disturbed area within which all construction, material storage, grading, and related activities occur, including the following items as applicable:

(a) Access to E&SC measures, lots that will be disturbed, and utilities that may extend offsite,

(b) Temporary access and haul roads, other than public roads, constructed or used in connection with the land-disturbing activity

(c) Borrow and waste areas created by the applicant. If the land-disturbing activity and any related borrow or waste activity are not conducted by the same person, they shall be considered separate land-disturbing activities

(d) Offsite borrow pits if the borrow pit is a construction support activity to the development

3. Angle for Graded Slopes

The angle for graded slopes and fills shall be no greater than the angle that can be retained by vegetative cover or other erosion control devices or structures. (NCGS 113A-57(2))

4. Upslope Areas
Runoff originating upslope of the disturbed areas shall be either diverted away from the construction activity or E&SC measures shall be sized sufficiently to handle the runoff. Any diversion measures shall be shown on the plans.

5. Design Standard for E&SC Measures
Plans shall include measures necessary to prevent erosion at the limit of disturbance during the 10-year storm or the 25-year storm in HQW Zones and the Falls Lake Watershed.

6. Calculation Method
Hydrologic calculations for designing E&SC measures shall be in accordance with the procedures in the United States Department of Agriculture, Natural Resources Conservation Service's "National Engineering Field Manual Handbook 630" which is herein incorporated by reference including subsequent amendments and editions, and may be accessed at: https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/water/manage/hydrology/?cid=stelprdb1043063 or according to procedures adopted by any other agency of this state or the United States or any generally recognized organization or association.

7. Stormwater Conveyances
Any increase in stormwater runoff velocity resulting from a land-disturbing activity shall not result in accelerated erosion of the receiving stormwater conveyance during the 10-year storm or the 25-year storm in HQW Zones. The following additional requirements apply to stormwater conveyances:

(a) The velocity in the receiving stormwater conveyance shall not exceed the maximum permissible velocity per Table 1 except for sinuous channels. For sinuous channels, multiply allowable velocity in Table 1 by 0.95 for slightly sinuous, by 0.9 for moderately sinuous channels, and by 0.8 for highly sinuous channels

Table 1: Maximum Permissible Velocities

Stormwater conveyance in-situ material	Maximum Permissible Velocity	
	Feet per second	Meters per second
Fine sand (noncolloidal) Sandy loam (noncolloidal)	2.5	0.8
Silt loam (noncolloidal)	3.0	0.9
Ordinary firm loam Alluvial silts (noncolloidal)	3.5	1.1
Fine gravel Stiff clay (very colloidal) Alluvial silts (colloidal)	5.0	1.5
Graded, silt to cobbles (colloidal) Cobbles and shingles	5.5	1.7
Coarse gravel (noncolloidal) Shale and hard pans	6.0	1.8

(b) Conveyances may be stabilized by planting vegetation, enlarging cross sections, and/or providing erosion-resistant lining. Any erosion-resistant linings shall be shown on the plans.

8. Sediment Basin Outlet Structures
Sediment basins and traps with drainage areas of one acre or greater shall use outlet structures that withdraw water from the surface.

9. Lower Portions of the Site
Portions of a site that are lower in elevation than adjacent discharge locations and are not expected to discharge during construction may be exempt from the temporary ground cover requirements if identified on the approved E&SC plan or added by the E&SC plan authority.

SECTION C: ADDITIONAL DESIGN AND CONSTRUCTION STANDARDS IN HIGH QUALITY WATER (HQW) ZONES

1. Extent of the HQW Zone
HQW Zones are those areas in the 20 Coastal Counties that are within 575 feet of High Quality Waters and for the remainder of the state, areas that are within one mile of and drain to HQWs.

2. Disturbed Area Limits in HQW Zones
Disturbed areas in HQW zones shall be limited at any time to a maximum total area within the boundaries of the tract of 20 acres. Only the portion of the construction activity within a HQW zone shall be subject to the 20-acre limit. Larger disturbed areas may be allowed with the written approval of the Director upon providing adequate engineering justification with a specific construction sequence that addresses phasing, limited exposure, weekly submittal of self-inspection reports and/or more conservative design than the 25-year storm. The Director may also include other conditions as necessary based on specific site conditions.

3. Additional Sediment Basin Requirements in HQW Zones
Sediment basins that discharge to HQW Zones shall be designed and constructed to meet the following criteria unless the permittee demonstrates to the E&SC plan authority that meeting each of the basin design conditions below would result in design or operational hardships. Alternative control measures, such as quicker application of ground cover or use of sediment flocculants, shall be allowed as a substitute on a case-by-case basis if it can be shown that use of the alternate practices is expected to result in an equal or better sediment discharge reduction from the site.

(a) Use a surface withdrawal mechanism except when the basin drainage area is less than 1.0 acre.

(b) Have a minimum of 1800 cubic feet per of storage area per acre of disturbed area.

(c) Have a minimum surface area of 325 square feet per cfs for the peak flow from the 25-year storm.

(d) Have a minimum dewatering time of 48 hours.

(e) Incorporate three baffles unless the basin is less than 20 feet in length, in which case two baffles are sufficient.

4. Open Channels in HQW Zones
Newly constructed open channels in HQW zones shall be designed and constructed with side slopes no steeper than two horizontal to one vertical if a vegetative cover is used for stabilization unless soil conditions permit a steeper slope or where the slopes are stabilized by using mechanical devices, structural devices or other acceptable ditch liners. The angle for side slopes shall be sufficient to restrain accelerated erosion.

SECTION D: CONSTRUCTION ACTIVITY BUFFERS

The requirements in Section D below shall not apply to a land-disturbing activity in connection with the construction of facilities to be located on, over, or under a lake or natural watercourse (NCGS 113A-57).

1. Buffers in Non-Trout Waters
Unless wider buffers are required per NC rules or statutes, the width of the buffer shall be sufficient to confine visible sedimentation to the 25 percent of the strip closest to the land-disturbing activity. The width of a buffer adjacent to a non-trout water shall be measured from the edge of the water to the nearest edge of the disturbed area.

Recommended buffer widths to achieve this standard are shown in Table 2 below.

Table 2: Recommended Buffer Widths

Slope of Buffer (%)	Recommended Width of Undisturbed Vegetation Adjacent to Non-Trout Waters
0-1	15 feet
1-3	20 feet
3-5	25 feet
>5	25 feet + (% of slope – 5)

2. Buffers in Trout Waters
Unless wider buffers are required per NC rules or statutes, the minimum width for an undisturbed buffer adjacent to trout waters shall be 25 feet. The width of a buffer adjacent to a trout water shall be measured horizontally from the top of bank to the nearest edge of the land-disturbing activity. However, the Sedimentation Control Commission may approve plans that include land-disturbing activity along trout waters when the duration of said disturbance would be temporary and the extent of said disturbance would be minimal. (NCGS 113A-57(1)).

SECTION E: GROUND STABILIZATION

1. Ground Stabilization Timelines
Ground stabilization shall be achieved on any area of a site where land disturbing activities have ceased within the timeframes listed in Table 3 below. It is recommended to stabilize the ground more quickly if practicable. Extensions of time may be approved by the E&SC plan authority based on weather or other site-specific conditions that make compliance impracticable. Portions of a site that are lower in elevation and not expected to discharge during construction may be exempt from the temporary ground cover requirements if identified on the E&SC plan and approved by the E&SC plan authority.

Table 3: Required Ground Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe Variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	• If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	• 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 • 7 days for perimeter dikes, swales, ditches, perimeter slopes, and HQW Zones • 10 days for the Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	• 7 days for perimeter dikes, swales, ditches, perimeter slopes, and HQW Zones • 10 days for the Falls Lake Watershed unless there is zero slope.

2. Permanent Ground Stabilization Timeline
After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

SECTION F: MATERIALS HANDLING

Any structural controls installed to manage construction materials stored or used on site shall be included in the field copy of the E&SC plan. Requirements for handling materials on construction sites shall be as follows:

1. Polyacrylamides (PAMS) and Flocculants
Polyacrylamides (PAMS) and flocculants shall be:

(a) stored in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures designed to protect adjacent surface waters;

(b) selected from the *NC DWR List of Approved PAMS/Flocculants* list, available at: https://files.nc.gov/ncdeq/Water%20Quality/Environmental%20Sciences/ATU/ApprovedPAMS1_1_2017.pdf; and

(c) used at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.

2. Equipment Fluids

(a) ***Fuels, lubricants, coolants, and hydraulic fluids, and other petroleum products*** shall be handled and disposed of in a manner so as not to enter surface or ground waters and in accordance with applicable state and federal regulations. Equipment used on the site must be operated and maintained properly to prevent discharge of fluids.

(b) ***Equipment, vehicle, and other wash waters*** shall not be treated in a sediment basin or sediment trap. Alternative controls should be provided such that there is no discharge of soaps, solvents, or detergents.

3. Waste Materials

(a) ***Building material and land clearing waste*** shall be disposed of in accordance with North Carolina General Statutes, Chapter 130A, Article 9 - Solid Waste Management, and rules governing the disposal of solid waste (15A NCAC 13B). Areas dedicated for managing building material and land clearing waste shall be at least 50 feet away from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available.

(b) ***Paint and other liquid building material waste*** shall not be dumped into storm drains. It is recommended to locate paint washouts at least 50 away from storm drain inlets unless there is no alternative. Other options are to install lined washouts to use portable, removable bags or bins.

(c) ***Hazardous or toxic waste*** shall be managed in accordance with the federal Resource Conservation and Recovery Act (RCRA) and NC Hazardous Waste Rules at 15A NCAC, Subchapter 13A.

(d) ***Litter and sanitary waste*** shall be managed in a manner to prevent it from entering waters and shall be disposed of offsite.

4. Herbicide, Pesticide, and Rodenticides
Herbicide, pesticide, and rodenticides shall be stored and applied in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act and label restrictions.

5. Concrete Materials
Concrete materials onsite, including excess concrete, shall be controlled and managed to avoid contact with surface waters, wetlands or buffers. No concrete or cement slurry shall be discharged from the site. (Note that discharges from onsite concrete plants require coverage under a separate NPDES permit – NCG140000.) Any hardened concrete residue will be disposed of, or recycled on site, in accordance with local and state solid waste regulations.

6. Earthen Material Stock Piles
Earthen material stock piles shall be located at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.

SECTION G: OPERATION AND MAINTENANCE

1. Modifications to the E&SC Plan
Modifications to the approved E&SC plan that require changes to the E&SC measure designs, the drainage areas, or the disturbed areas draining to E&SC measures shall be approved by the E&SC plan authority. Deviations from the approved E&SC plan, or approved revised E&SC plan, shall constitute a violation of this permit unless the deviation is to correct an emergency situation where sediment is being discharged off the site. The E&SC plan authority may allow deviations from the E&SC plan on a case-by-case basis if the deviations are minor adjustments to

address minor deficiencies. A minor adjustment shall be the addition of E&SC measures (e.g., silt fence, inlet protection, check dams, rolled erosion control practices, etc.), or the relocation of E&SC measures that would improve the overall stormwater management and sediment control onsite. Minor adjustments shall be noted on the approved E&SC plan and maintained at the job site.

2. Operation and Maintenance
The permittee shall install and maintain all temporary and permanent E&SC measures as required by this permit and the approved E&SC plan.

3. Corrective Actions
If self-inspections required by this permit identify a need for maintenance of control measures, modifications or additions to control measures, or corrective actions to control sediment or other pollutants, these actions shall be performed as soon as possible considering adverse weather and site conditions.

4. Draw Down of Sediment Basins for Maintenance or Close Out
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC Plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,

(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,

(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,

(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item(c) above,

(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and

(f) Sediment removed from dewatering treatment devices described in Item(c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

5. Bypass of E&SC Measures
Diversions of stormwater from E&SC measures ***when the design storm has not been exceeded*** are not allowed. Bypasses of E&SC measures shall be reported in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.

6. Unavoidable Bypass for Public Safety
A bypass may be allowed by the Director if the Director determines that all of the following conditions were met:

(a) The bypass is unavoidable to prevent loss of life, personal injury or severe property damage,

(b) There were no feasible alternatives to the bypass, such as the use of auxiliary control facilities, retention of stormwater or maintenance during normal periods of equipment downtime or dry weather. This condition is not satisfied if adequate backup controls should have been installed in the exercise of reasonable engineering judgement to prevent a bypass

which occurred during normal periods of equipment downtime or preventative maintenance, and

(c) the permittee submitted a notice of the bypass per the record-keeping requirements in Part III, Section C, Item (2)(c) and (d) of this permit.

7. Upset of E&SC Measures
Diversions of stormwater from E&SC measures may be considered as an upset if the permittee can demonstrate that all of the following conditions have been met. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

(a) The permittee submitted notice of the upset as required in this general permit and identifies the cause(s) of the upset.

(b) The permittee demonstrates that the upset was not caused by operational error, improperly designed treatment or control facilities, lack of preventive maintenance, or careless or improper operation.

(c) The permittee agrees to take remedial measures if necessary.

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

FOR REFERENCE ONLY

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE: 04.08.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314703
STORE NUMBER: 454826
PA/PM: JN
DRAWN BY.: RS
JOB NO.: 2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

NPDES NOTES

C-012

PLOT DATE:

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTIONS

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Table 4: Self-Inspection Requirements

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.

(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures; clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation
The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The items listed in Table 5 pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Table 5: Recordkeeping Requirements

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site
In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspections at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records

in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records

3. Documentation to be Retained for Three Years
All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

SECTION C: REPORTING

1. Occurrences that Must be Reported
Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act Ref: 40 CFR 110.3and 40 CFR 117.3) or section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed in Table 6 below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Table 6: Reporting Requirements

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 3.(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible.*** The report shall include an evaluation of the anticipated quality and effect of the bypass.

(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART IV STANDARD CONDITIONS FOR NPDES STORMWATER GENERAL PERMITS

SECTION A: COMPLIANCE AND LIABILITY

1. Continuation of Previously Permitted Projects
Projects and their corresponding activities permitted under the previous version of the NC general permit for construction activities will automatically be considered covered under this general permit without the submittal of a Notice of Intent form. In addition, an annual general permit fee shall not be required for projects covered under the previous version of the NC general permit for construction activities.

2. Projects Submitted Prior to this Permit's Effective Date
Complete project applications that were received prior to the effective date of this permit, but not approved by the E&SC plan authority until after approval of this NPDES permit, can rely on design and management practices effective at the time of application submittal.

3. Duty to Comply
The permittee must comply with all conditions of this general permit. Any permit noncompliance constitutes a violation of the Clean Water Act (CWA) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit upon renewal application. [40 CFR 122.41]

(a) The permittee shall comply with standards or prohibitions established under section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the general permit has not yet been modified to incorporate the requirement. [40 CFR 122.41]

(b) The CWA provides that any person who violates section[s] 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed $37,500 per day for each violation. [33 USC 1319(d) and 40 CFR 122.41(a)(2)]

(c) The CWA provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment of not more than 2 years, or both. [33 USC 1319(c)(1) and 40 CFR 122.41(a)(2)]

(d) Any person who *knowingly* violates such sections, or such conditions or limitations is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment of not more than 6 years, or both. [33 USC 1319(c)(2) and 40 CFR 122.41(a)(2)]

(e) Any person who *knowingly* violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than $250,000 or imprisonment of not more than 15 years, or both. In the

case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions. [40 CFR 122.41(a)(2)]

(f) Under state law, a civil penalty of not more than $25,000 per violation may be assessed against any person who violates or fails to act in accordance with the terms, conditions, or requirements of a permit. [North Carolina General Statutes § 143-215.6A]

(g) Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed $20,628 per violation, with the maximum amount of any Class I penalty assessed not to exceed $51,570. Penalties for Class II violations are not to exceed $20,628 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed $257,848. [33 USC 1319(g)(2) and 40 CFR 122.41(a)(3)]

4. Non-Stormwater Discharges
If a storm event monitored in accordance with this general permit coincides with a non-stormwater discharge, the permittee shall separately monitor all parameters as required under all other applicable discharge permits and provide this information with the stormwater discharge monitoring report.

5. Test Procedures
Test procedures for the analysis of pollutants shall conform to the EMC regulations published pursuant to NCGS 143-215.63 et. seq, the Water and Air Quality Reporting Acts, and to regulations published pursuant to Section 304(g), 33 USC 1314, of the Federal Water Pollution Control Act, as Amended, and Regulation 40 CFR 136.

To meet the intent of the monitoring required by this general permit, all test procedures must produce minimum detection and reporting levels and all data generated must be reported down to the minimum detection or lower reporting level of the procedure. If no approved methods are determined capable of achieving minimum detection and reporting levels below general permit discharge requirements, then the most sensitive (method with the lowest possible detection and reporting level) approved method must be used.

6. Duty to Mitigate
The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this general permit which has a reasonable likelihood of adversely affecting human health or the environment. [40 CFR 122.41(d)]

7. Need to Halt or Reduce Not a Defense
It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the condition of this general permit. [40 CFR 122.41(c)]

8. Civil and Criminal Liability
Except as provided in Part II, Section B of this general permit regarding bypassing of stormwater control facilities, nothing in this permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties for noncompliance pursuant to NCGS 143-215.3, 143-215.6A, 143-215.6B, 143-215.6C, or Section 309 of the Federal Act, 33 USC 1319. Furthermore, the

permittee is responsible for consequential damages, such as fish kills, even though the responsibility for effective compliance may be temporarily suspended.

9. Oil and Hazardous Substance Liability
Nothing in this general permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under NCGS 143-215.75 et seq. or Section 311 of the Federal Act, 33 USC 1321.

10. Property Rights
The issuance of this general permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations [40 CFR 122.41(g)].

11. Severability
The provisions of this general permit are severable, and if any provision of this general permit, or the application of any provision of this general permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this general permit, shall not be affected thereby [NCGS 150B-23].

12. Duty to Provide Information
The permittee shall furnish to the Division, within a reasonable time, any information which the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the general permit issued pursuant to this general permit or to determine compliance with this general permit. The permittee shall also furnish to the Division upon request, copies of records required to be kept by this general permit [40 CFR 122.41(h)].

13. Inspection and Entry
The permittee shall allow the Director, an authorized representative (including an authorized contractor acting as a representative of the Director), or an authorized representative of a municipal operator or the separate storm sewer system receiving the discharge (if applicable), upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this general permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this general permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this general permit; and

(d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location. [40 CFR 122.41(i)]

14. Penalties for Tampering
The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this general permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or both [40 CFR 122.41].

15. Penalties for Falsification of Reports
The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this general permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two years per violation, or by both [40 CFR 122.41].

16. Onshore or Offshore Construction
This general permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

17. Duty to Reapply
Dischargers covered by this general permit need not submit a new Notice of Intent (NOI) or renewal request unless so directed by the Division. If the Division chooses not to renew this general permit, the permittee will be notified to submit an application for an individual permit. [15A NCAC 02H .0127(e)]

18. Planned Changes
The permittee shall give notice to the Director as soon as possible of any planned changes at the permitted facility which could significantly alter the nature or quantity of pollutants discharged [40 CFR 122.41(l)]. This notification requirement includes pollutants which are not specifically listed in the general permit or subject to notification requirements under 40 CFR Part 122.42 (a).

19. Anticipated Noncompliance
The permittee shall give advanced notice to the Director of any planned changes at the permitted facility which may result in noncompliance with the general permit. [40 CFR 122.41(l)(2)]

SECTION B: PERMIT ADMINISTRATION

1. General Permit Expiration
General permits will be effective for a term not to exceed five years, at the end of which the Division may renew them after all public notice requirements have been satisfied. If a general permit is renewed, existing permittees do not need to submit a renewal request or pay a renewal fee unless directed by the Division. New applicants seeking coverage under a renewed general permit must submit a Notice of Intent to be covered and obtain a Certificate of Coverage under the renewed general permit. [15A NCAC 02H .0127(e)]

2. Transfers
This general permit is not transferable to any person without prior written notice to and approval from the Director in accordance with 40 CFR 122.61. The Director may condition approval in accordance with NCGS 143-215.1, in particular NCGS 143-215.1(b)(4) b.2., and may require modification or revocation and reissuance of the Certificate of Coverage, or a minor modification, to identify the new permittee and incorporate such other requirements as may be necessary under the CWA [40 CFR 122.41(l)(3), 122.61] or state statute. **The Permittee is required to notify the Division in writing in the event the permitted facility is sold or closed.**

3. When an Individual Permit May be Required
The Director may require any owner/operator authorized to discharge under a certificate of coverage issued pursuant to this general permit to apply for and obtain an individual permit or an alternative general permit. Any interested person may petition the Director to take action under this paragraph. [15A NCAC 02H .0127(j)-(j)] Cases where an individual permit may be required include, but are not limited to, the following:

(a) The discharger is a significant contributor of pollutants;

(b) The receiving stream is of a unique quality and the standard conditions may not provide adequate protection;

(c) Conditions at the permitted site change, altering the constituents and/or characteristics of the discharge such that the discharge no longer qualifies for a general permit;

(d) The discharge violates the terms or conditions of this general permit;

(e) A change has occurred in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source;

(f) Effluent limitations are promulgated for the point sources covered by this general permit;

(g) A water quality management plan containing requirements applicable to such point sources is approved after the issuance of this general permit;

(h) The Director determines at his or her own discretion that an individual permit is required.

4. When an Individual Permit May be Requested
Any permittee operating under this general permit may request to be excluded from the coverage of this general permit by applying for an individual permit. When an individual permit is issued to an owner/operator the applicability of this general permit is automatically terminated on the effective date of the individual permit. [15A NCAC 02H .0127(b)]

5. Impacts or Potential Impacts to Surface Waters or Wetlands
If evidence indicates that the stormwater discharges from the site are impacting or have the potential to impact surface waters or wetlands, then the Division may take appropriate actions including any or all of the following:
a) take compliance and enforcement action;
b) require the permittee to include and implement appropriate control and restoration measures;
c) require the permittee to develop and implement additional site-specific stormwater pollution prevention measures;
d) require the permittee to obtain an individual permit.

6. Signatory Requirements
All applications, reports, or information submitted to the Permitting Issuing Authority shall be signed and certified. [40 CFR 122.41(k)]
(a) All Notices of Intent to be covered under this general permit shall be signed as follows:
- ***For a corporation***: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (a) a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or (b) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- ***For a partnership or sole proprietorship***: by a general partner or the proprietor, respectively; or

- ***For a municipality, State, Federal, or other public agency***: by either a principal executive officer or ranking elected official. [40 CFR 122.22]

(b) All reports required by the general permit and other information requested by the Director shall be signed by a person described in paragraph a. above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- The authorization is made in writing by a person described above;
- The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or well field, superintendent, a position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
- The written authorization is submitted to the Director. [40 CFR 122.22]

(c) If an authorization under paragraph (b) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (b) of this section must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative. [40 CFR 122.22]

(d) Any person signing a document under paragraphs a. or b. of this section shall make the following certification [40 CFR 122.22]. NO OTHER STATEMENTS OF CERTIFICATION WILL BE ACCEPTED:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

7. General Permit Modification, Revocation and Reissuance, or Termination
The issuance of this general permit does not prohibit the Division from reopening and modifying the general permit, revoking and reissuing the general permit, or terminating the general permit as allowed by the laws, rules, and regulations contained in Title 40, Code of Federal Regulations, Parts 122 and 123; Title 15A of the North Carolina Administrative Code, Subchapter 2H .0100; and North Carolina General Statute 143-215.1 et al.

After public notice and opportunity for a hearing, the general permit may be terminated for cause. The filing of a request for a general permit modification, revocation and reissuance, or termination does not stay any general permit condition. The **Certificate of Coverage** shall expire when the general permit is terminated.

8. Certificate of Coverage Actions
The general permit may be modified, revoked and reissued, or terminated for cause. The notification of planned changes or anticipated noncompliance does not stay any general permit condition [40 CFR 122.41(f)].

9. Annual Administering and Compliance Monitoring Fee Requirements
The permittee must pay the administering and compliance monitoring fee within 30 (thirty) days after being billed by the Division. Failure to pay the fee in timely manner in accordance with 15A NCAC 2H .0105(b)(2) may cause this Division to initiate action to revoke coverage under the general permit.

10. Availability of Reports
Except for data determined to be confidential under NCGS 143-215.3(a)(2) or Section 308 of the Federal Act, 33 USC 1318, all reports prepared in accordance with the terms shall be available for public inspection at the offices of the Division. As required by the Act, analytical data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NCGS 143-215.6B or in Section 309 of the Federal Act.

11. Omissions
Where the Permittee becomes aware that it failed to submit any relevant facts in a Notice of Intent to be covered under this general permit, or submitted incorrect information in that Notice of Intent application or in any report to the Director, it shall promptly submit such facts or information. [40 CFR 122.41(l)(8)]

PART V DEFINITIONS

1. Act
See Clean Water Act.

2. Adverse Weather
Climate conditions that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, electrical storms, winter weather conditions, or situations that otherwise make inspections impractical. When adverse weather or site conditions prevent or restrict access to complete a regular or rain event inspection, this should be clearly documented on the next issued report. Documentation should include the inspector's name, the date and time, and a written narrative of the adverse weather or site condition. Adverse weather or site conditions do not exempt the permittee from having to file an inspection report in accordance with Section II. B of this permit.

3. Allowable Non-Stormwater Discharges
This general permit regulates stormwater discharges. Non-stormwater discharges which shall be allowed in the stormwater conveyance system are:

(a) All other discharges that are authorized by a non-stormwater NPDES permit.

(b) Uncontaminated groundwater, foundation drains, air-conditioner condensate without added chemicals, springs, discharges of uncontaminated potable water, waterline and fire hydrant flushings, water from footing drains, and irrigation waters, flows that do not result in a water quality standards violation.

(c) Discharges resulting from fire-fighting or fire-fighting training, or emergency shower or eye wash as a result of use in the event of an emergency.

4. Best Management Practices (BMPs)
Measures or practices used to reduce the amount of pollution entering surface waters. BMPs may take the form of a process, activity, or physical structure

5. Bypass
The known diversion of stormwater from any portion of a stormwater control facility including the collection system, which is not a designed or established operating mode for the facility.

6. Certificate of Coverage
The cover sheet that accompanies a general permit upon issuance and lists the facility name, location, receiving stream, river basin, effective date of coverage under the general permit and is signed by the Director.

7. Clean Water Act
The Federal Water Pollution Control Act, also known as the Clean Water Act (CWA), as amended, 33 USC 1251, et. seq.

8. Common Plan of Development
A contiguous area where multiple separate and distinct land disturbing activities may be taking place at different times and on different schedules under one common plan. The "common plan" of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities are planned to occur on a specific plot regardless of ownership of the parcels..

9. Concrete Washout
Wastewater resulting from the washing of equipment such as trucks, chutes, hoses, mixers, hoppers, wheelbarrows, and tools that are used to produce, handle, or store concrete and other cementitious materials such as mortar, plaster, stucco, or grout.

10. Control Measure
Any BMP or other structural or non-structural practice or procedure used to prevent or reduce the discharge of pollutants including practices to control erosion and sedimentation.

11. Division or DEMLR
The Division of Energy, Mineral, and Land Resources of the NC Department of Environmental Quality (DEQ).

12. Director
The Director of the Division of Energy, Mineral, and Land Resources of the NC Department of Environmental Quality (DEQ).

13. EMC
The North Carolina Environmental Management Commission.

14. Erosion and Sedimentation Control (E&SC) Plan
A plan developed in compliance with the North Carolina Sedimentation Pollution Control Act of 1973 in G.S. 113A-50 et seq. to prevent sediment resulting from accelerated erosion from being transported off the site of the land-disturbing activity or in waters.

15. Erosion and Sedimentation Control (E&SC) Plan Authority
The entity responsible for reviewing and approving the Erosion and Sediment Control Plan. Within some local governments' jurisdictions, this will be a delegated program. Elsewhere, it will be the Division.

16. Erosion and Sediment Control (E&SC) Measure
Temporary and permanent practices and devices to prevent sediment resulting from accelerated erosion from being transported off the site of the land-disturbing activity or in waters of the State of North Carolina. E&SC measures, include, but are not limited to, sedimentation traps, sedimentation ponds, rock dams, temporary diversions, temporary slope drains, rock check dams, sediment fence or barriers, all forms of inlet protection, storm drainage facilities, energy dissipaters and stabilization methods of open channels.

17. Ground Cover
Any vegetative growth or other material which, when applied to the soil surface, renders the soil surface stable against accelerated erosion.

18. Hazardous Substance
Any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act.

19. Landfill
A disposal facility or part of a disposal facility where waste is placed in or on land and which is not a land treatment facility, a surface impoundment, an injection well, a hazardous waste long-term storage facility or a surface storage facility.

20. Normal Business Hours
These are generally considered to be between the hours of 6 a.m. and 6 p.m., or when workers are normally present on the construction site. Weekends, state and federal holidays are not considered normal business hours unless construction activities are taking place on the site during those times.

21. Notice of Intent
The state application form which, when submitted to the Division, officially indicates the facility's notice of intent to seek coverage under a general permit.

22. Permanent Stabilization
When all soil disturbing activity is completed and exposed soils have been stabilized with a vegetative cover with a density of at least 80% or covered with a structural stabilization method. Permanent perennial vegetation may include the use of sod, shrubs and ground cover plants mixed with mulching, aggregate or other landscaping techniques. Structural methods include concrete, asphalt, retaining wall or other stabilization techniques.

23. Permittee
The person, firm or organizational entity that signed as the financially responsible party on the Erosion and Sedimentation Control Plan.

24. Point Source Discharge of Stormwater
Any discernible, confined and discrete conveyance including, but not specifically limited to, any pipe, ditch, channel, tunnel, conduit, well, or discrete fissure from which stormwater associated with industrial activity is or may be discharged to waters of the state.

25. Secondary Containment
Spill containment for the contents of the single largest tank within the containment structure plus sufficient freeboard to allow for the 25-year, 24-hour storm event.

26. Section 313 Water Priority Chemical
A chemical or chemical category which:
(a) Is listed in 40 CFR 372.65 pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, also titled the Emergency Planning and Community Right-to-Know Act of 1986;
(b) Is present at or above threshold levels at a facility subject to SARA title III, Section 313 reporting requirements; and
(c) Meets at least one of the following criteria:
- Is listed in appendix D of 40 CFR part 122 on Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table IV (certain toxic pollutants and hazardous substances);
- Is listed as a hazardous substance pursuant to section 311(b)(2)(A) of the CWA at 40 CFR 116.4; or
- Is a pollutant for which EPA has published acute or chronic water quality criteria.

27. Soil Stabilization
The use of vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

28. Stormwater Discharge Outfall (SDO)
The point of departure of stormwater from a discernible, confined, or discrete conveyance, including but not limited to, storm sewer pipes, drainage ditches, channels, spillways, or channelized collection areas, from which stormwater flows directly or indirectly into waters.

29. Stormwater Runoff
The flow of water which results from precipitation and which occurs immediately following rainfall or as a result of snowmelt.

30. Stormwater Associated with Industrial Activity
The discharge from any point source which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw material storage areas at an industrial site. Facilities considered to be engaged in "industrial activities" include those activities defined in 40 CFR 122.26(b)(14). The term does not include discharges from facilities or activities excluded from the NPDES program.

31. Stormwater Pollution Prevention Plan (SWPPP)
The elements of the State's stormwater pollution prevention program that provide the technology-based requirements designed to protect the state's waters from the adverse impacts of sediments. In North Carolina, the SWPPP for construction activities includes the Erosion and Sedimentation Control Plan, Ground Stabilization, Materials Handling, and Disturbed Area Limit for Special and Threatened Waters.

32. Temporary Stabilization
When the establishment of ground cover over all disturbed areas (such as mulching, rolled erosion control products, vegetation, or other material) renders the surface stable against accelerated erosion. Stabilization shall be achieved with the establishment of a uniform and evenly-distributed (i.e., without large bare areas) ground cover with a cover density of at least 80%.

33. Toxic Pollutant
Any pollutant listed as toxic under Section 307(a)(1) of the Clean Water Act.

34. Upset
An exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment or control facilities, inadequate treatment or control facilities, lack of preventive maintenance, or careless or improper operation.

35. Visible Sedimentation
Solid particulate matter, both mineral and organic, that has been or is being transported by water, air, gravity, or ice from its site of origin that can be seen with the unaided eye.

36. 25-year, 24-hour Storm Event
The maximum 24-hour precipitation event expected to be equaled or exceeded, on the average, once in 25 years.

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

FOR REFERENCE ONLY

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE: 04.08.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314703
STORE NUMBER: 454826
PA/PM: JN
DRAWN BY.: RS
JOB NO.: 2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

NPDES NOTES

C-013

PLOT DATE:

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

SWPP KEYNOTES

- TS TEMPORARY SEEDING
- PS PERMANENT SEEDING
- CW CONCRETE WASHOUT AREA
- SF SILT FENCE
- CE CONSTRUCTION ENTRANCE
- IP INLET PROTECTION

LEGEND

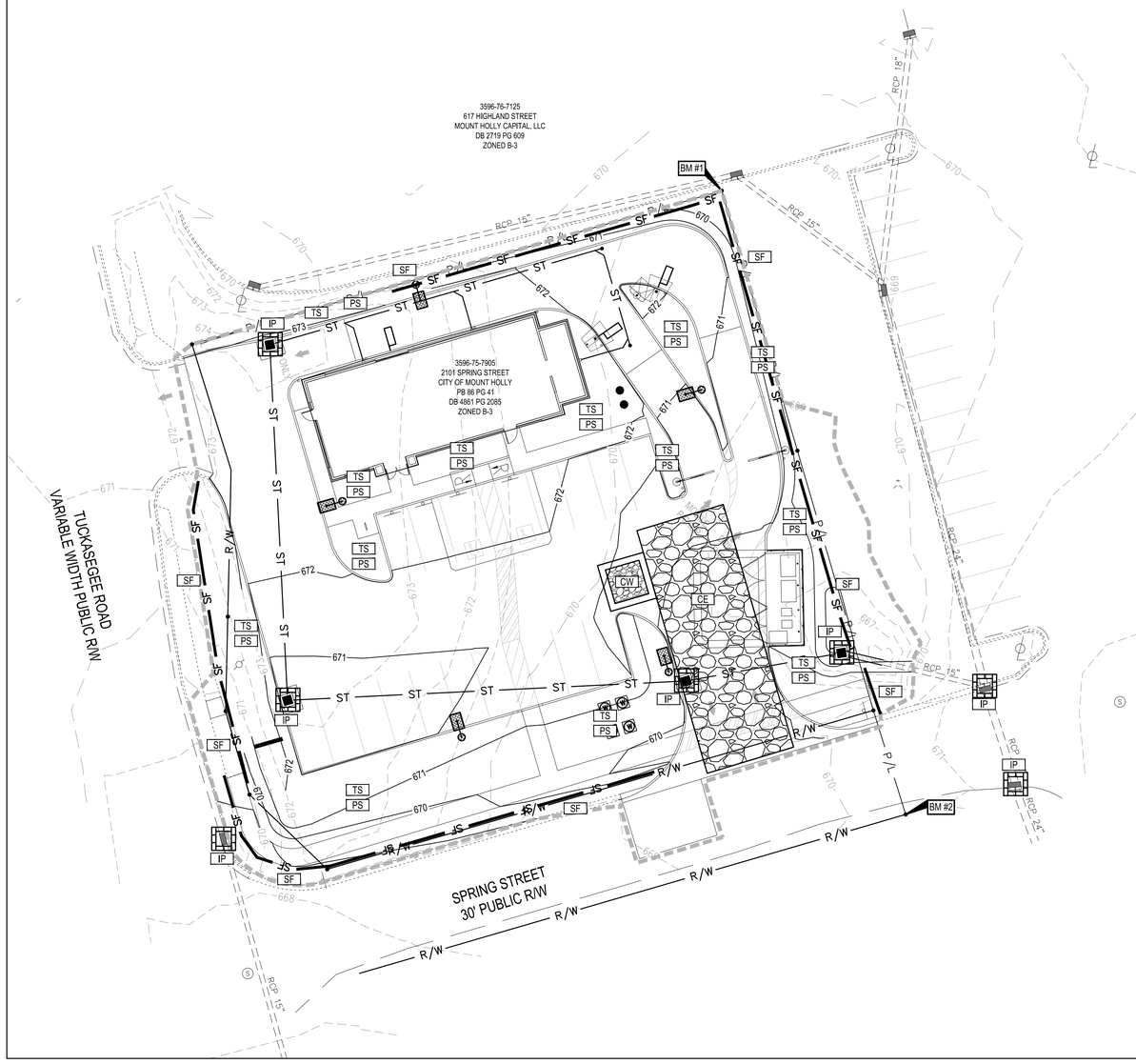
(SEE SHEET C-001 FOR GENERAL LEGEND)

- PROPOSED SILT BARRIER — REFER TO SWPP DETAILS
- SF — PROPOSED SILT FENCE — REFER TO SWPP DETAILS
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED CONSTRUCTION ENTRANCE — REFER TO SWPP DETAILS
- PROPOSED CONCRETE WASHOUT FACILITY — REFER TO SWPP DETAILS

N

0 20 10 40

1"=20'
Horizontal Scale in Feet



BENCHMARKS:
GPS VRS SURVEY ON THREE CONTROL POINTS NAD 83 2011 HARN.

TOPOGRAPHIC MAP IS BASED ON VERTICAL DATUM NAVD 88 GEOID 12A.

BENCHMARK #1 - EXISTING TOP OF IRON ROD.
ELEVATION = 669.62

BENCHMARK #2 - EXISTING TOP OF IRON ROD.
ELEVATION = 670.58

North Carolina 811 www.nc811.org

CONSTRUCTION SEQUENCE

1. DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED. A GENERAL CONSTRUCTION SEQUENCE FOLLOWS AND MAY NEED TO BE UPDATED BY THE CONTRACTOR TO SUIT THE SPECIFICS OF THE SITE AND INTENDED CONTRACTOR SPECIFIC SEQUENCING.
   - 1.1. INSTALL CONSTRUCTION ENTRANCE AS DETAILED ON PLANS. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED AROUND PERIMETER OF CONSTRUCTION SITE. WHERE THERE IS EXISTING FENCE ALONG THE PERIMETER OF THE SITE, IT CAN BE UTILIZED. FENCING SHALL BE USED TO RESTRICT OUTSIDE TRAFFIC TO SITE.
   - 1.2. DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
   - 1.3. STAKE AND/OR FLAG LIMITS OF CLEARING.
   - 1.4. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL SILT PERIMETER CONTROLS AS SHOWN ON PLANS. SILT PERIMETER CONTROLS SHALL BE INSTALLED LEVEL, ALONG THE CONTOURS, WITH ENDS TURNED UPSLOPE TO PREVENT CONCENTRATED FLOW AT THE SILT PERIMETER CONTROLS.
   - 1.5. INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
   - 1.6. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF TEMPORARY SEDIMENT TRAP/BASIN. INSTALL TEMPORARY SEDIMENT TRAP/BASIN, IF REQUIRED, AS DETAILED IN THE PLANS. CONSTRUCT AND MAINTAIN TEMPORARY DIVERSION SWALE AND / OR DIVERSION BERM DURING FILLING & GRADING ACTIVITIES.
   - 1.7. CLEAR & GRUB THE REMAINING SITE AS NECESSARY. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR REUSE, OR REMOVED TO AN APPROVED OFFSITE SPOIL AREA.
   - 1.8. UTILIZE DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE AIR-BORNE POLLUTION BY METHODS APPROVED BY THE AUTHORIZING EPA OFFICE.
   - 1.9. BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
   - 1.10. ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION.
   - 1.11. CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES. UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
   - 1.12. DO NOT REPLACE ANY TOPSOIL, SEED OR INSTALL FINAL PAVEMENT PRIOR TO COMPLETION OF BUILDING SHELL. SHOULD SITEWORK BE COMPLETED PRIOR TO THIS DATE, MULCH DISTURBED AREAS TO BE PLANTED AND INSTALL STONE SUBBASE IN DISTURBED AREAS TO BE PAVED.
   - 1.13. FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION, BEGIN LANDSCAPE INSTALLATION.
   - 1.14. COMPLETE SITEWORK, PAVEMENT MARKINGS AND FINAL CLEAN-UP. RESEED ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A MINIMUM 80% VEGETATIVE DENSITY HAS BEEN ACHIEVED.
   - 1.15. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED. ALL AREAS OF VEGETATIVE SURFACE, WHETHER PERMANENT OR TEMPORARY, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.
   - 1.16. REMOVE SEDIMENT CONTROLS.

PROJECT DESCRIPTION

THE EXISTING SITE IS A VACANT LOT WITH AN ASPHALT PARKING LOT THAT WILL BE DEMOLISHED TO MAKE WAY FOR THE PROPOSED DEVELOPMENT, A TACO BELL RESTAURANT. THE SITE CURRENTLY DRAINS MAINLY TO THE SOUTHEAST CORNER OF THE GRASS LOT AND SOME DRAINS OFF THE EXISTING SLOPES TO THE EXISTING ROADS.

THE PROPOSED PROJECT CONSTRUCTION WILL CONSIST OF A NEW TACO BELL RESTAURANT, PARKING LOT AND DRIVES, CONCRETE WALKS, SITE LIGHTING AND OTHER ASSOCIATED SITE AMENITIES.

PROJECT COMPLETION STATISTICS

PARCEL SIZE :	0.56 ACRES
TOTAL DISTURBED AREA:	0.64 ACRES
EXISTING LAND USE FOR THE SITE IS A VACANT LOT.	
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS AREA:	0.11 ACRES
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS PERCENT:	19.6%
PRE-CONSTRUCTION RUN-OFF COEFFICIENT:	0.55
PROPOSED LAND USE WILL BE A TACO BELL.	
ESTIMATED POST-CONSTRUCTION IMPERVIOUS AREA:	0.40 ACRES
ESTIMATED POST-CONSTRUCTION IMPERVIOUS PERCENT:	71.4%
POST-CONSTRUCTION RUN-OFF COEFFICIENT:	0.81

PROJECT LOCATION:

LATITUDE	LONGITUDE
35° 17' 17" N	81° 01' 7" W

EXISTING SITE SOIL TYPES:
CfB: CECIL-URBAN LAND COMPLEX, HSG = B.
REFERENCE: USDA NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

WETLAND INFORMATION:
THERE ARE NO WETLANDS ON THIS SITE.

FIRST AND SUBSEQUENT RECEIVING STREAM:
INITIAL RECEIVING WATER IS CONVEYED THROUGH STORM SEWERS AND THE SUBSEQUENT RECEIVING WATER IS THE CATAWBA RIVER.

OWNER CONTACT:
TACO BELL CORP.
CHAD GORNALL, ASSOCIATE CONSTRUCTION MANAGER
1 GLEN BELL WAY
IRVINE, CA 92618
814.572.4800
CHAD.GORNALL@YUM.COM

ANTICIPATED TIMING:

CONSTRUCTION BEGIN:	TBD
CONSTRUCTION COMPLETE:	TBD

CONTRACTOR: T.B.D. _____
CONTACT: _____
PHONE NUMBER: _____

CONTRACTOR SHALL MAINTAIN A CONSTRUCTION LOG DOCUMENTING ALL GRADING AND STABILIZATION ACTIVITIES.

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

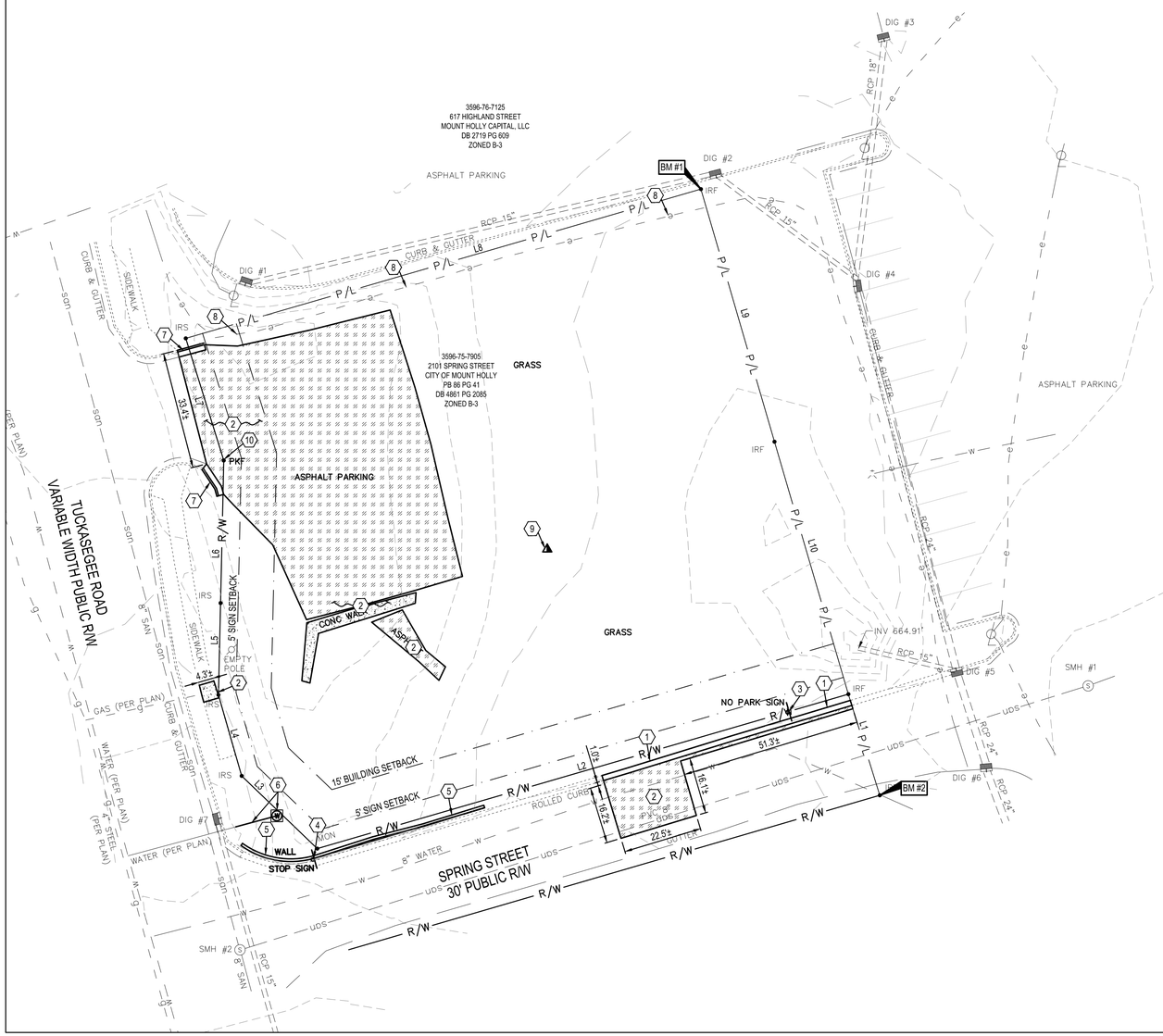
ENDEAVOR 2.0

SWPP PLAN

C-014

PLOT DATE:

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



N

0 20

10 40

1"=20'

Horizontal Scale in Feet

EXISTING GENERAL LEGEND

P/L	EXISTING PROPERTY LINE
R/W	EXISTING RIGHT OF WAY LINE
C/L	EXISTING CENTER LINE
OH	EXISTING OVERHEAD UTILITY LINES
g	EXISTING UNDERGROUND GAS LINES
st	EXISTING UNDERGROUND STORM LINES
san	EXISTING UNDERGROUND SANITARY LINES
w	EXISTING UNDERGROUND WATER LINES
e	EXISTING UNDERGROUND ELECTRIC LINES
t	EXISTING UNDERGROUND TELEPHONE LINES
	EXISTING CURB
	EXISTING CURB & GUTTER
000	EXISTING CONTOUR

DEMOLITION LEGEND

	EXISTING ASPHALT TO BE REMOVED
	EXISTING CONCRETE TO BE REMOVED
##'±	DENOTES LIMITS OF SAWCUT
#	DEMOLITION KEYNOTE

PLAN KEYNOTES (#)

1. EXISTING ROLLED CURB TO BE SAWCUT AND REMOVED.
2. EXISTING PAVEMENT TO BE SAWCUT AND REMOVED.
3. EXISTING 'DO NOT PARK' SIGN TO BE CAREFULLY REMOVED AND REINSTALLED.
4. EXISTING 'STOP' SIGN TO BE CAREFULLY REMOVED AND REINSTALLED.
5. EXISTING MODULAR BLOCK WALL TO BE REMOVED.
6. EXISTING WATER METER AND WATER LINE TO BE REMOVED.
7. EXISTING CURB AND GUTTER TO BE SAWCUT AND REMOVED.
8. EXISTING ELECTRIC LINES, PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL FIELD LOCATE AND RELOCATE AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS.
9. EXISTING ELECTRICAL STUB AND ASSOCIATED WIRE/CONDUITS TO BE REMOVED.
10. EXISTING MAG NAIL AT PROPERTY CORNER TO BE REINSTALLED AT CORNER OF PROPERTY AFTER PROPOSED IMPROVEMENTS HAVEN TAKEN PLACE.

DEMOLITION NOTE:

ALL EXISTING SITE AND SURROUNDING FEATURES SUCH AS UTILITIES, PAVEMENT, CURB, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE, OR ARE REQUIRED TO BE MODIFIED OR REMOVED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.

PROPERTY BEARING TABLE

LINE	BEARING	DISTANCE
L1	N 17°13'25" W	30.19'
L2	S 73°47'01" W	157.67'
L3	N 46°06'32" W	29.90'
L4	N 16°00'24" W	24.03'
L5	N 01°19'47" E	26.18'
L6	N 01°16'59" E	40.66'
L7	N 17°17'02" W	36.46'
L8	N 73°50'31" E	152.89'
L9	S 16°14'15" E	75.00'
L10	S 16°18'39" E	74.99'

BENCHMARKS:

GPS VRS SURVEY ON THREE CONTROL POINTS NAD 83 2011 HARN.

TOPOGRAPHIC MAP IS BASED ON VERTICAL DATUM NAVD 88 GEOID 12A.

BENCHMARK #1 - EXISTING TOP OF IRON ROD.
ELEVATION = 669.62

BENCHMARK #2 - EXISTING TOP OF IRON ROD.
ELEVATION = 670.58

CONSTRUCTION PLAN (MAJOR AND MINOR)

CONSTRUCTION PLAN APPROVED

PLANNING AND DEVELOPMENT DEPARTMENT

DATE: _____

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879

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Akron, OH 44311
330.572.2100 Fax 330.572.2101

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STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

DEMOLITION PLAN

C-101

PLOT DATE:

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ASPHALT PAVEMENT

MATERIAL	DEPTH (HVY. DUTY)	DEPTH (STD. DUTY)	NCDOT SPECIFICATIONS ITEM
A.C. SURFACE COURSE	1.5"	3"	ASPHALT COURSE SURFACE (S-9.5B)
A.C. INTERMEDIATE COURSE	2.5"	- -	ASPHALT COURSE INTERMEDIATE (I-19.0B)
AGG. BASE COURSE	8"	6"	GRADED AGGREGATE BASE
SUBGRADE COMPACTION	PER SOILS REPORT	PER SOILS REPORT	PER SOILS REPORT

SOILS REPORT GOVERNS IF ANY DISCREPANCIES OCCUR.
SEE TYPICAL SECTION SHEET C-501.

BUILDING SETBACKS	REQUIRED	PROVIDED
FRONT: TUCKASEGEE RD	15.0'	25.56'
REAR: EAST	0.0'	6.25'
SIDE: NORTH	0.0'	17.88'
SIDE: SPRING ST.	15.0'	22.48'

PARKING SETBACKS	REQUIRED	PROVIDED
FRONT: TUCKASEGEE RD	0.0'	15.34'
REAR: EAST	0.0'	4.93'
SIDE: NORTH	0.0'	4.50'
SIDE: SPRING ST.	0.0'	26.93'

LANDSCAPE SETBACKS	REQUIRED	PROVIDED
FRONT: TUCKASEGEE RD	0.0'	15.34'
REAR: EAST	0.0'	4.93'
SIDE: NORTH	0.0'	4.50'
SIDE: SPRING ST.	0.0'	26.93'

PARKING SPACES	REQUIRED	PROVIDED
NUMBER OF SPACES	17	18
PARKING REQUIREMENTS		
10 SPACES, PLUS 1 FOR EVERY 3 SEATS		
THEREFORE: 10 + (20 / 3) =		
17 SPACES REQUIRED.		

LAND USE DATA	% OF SITE AREA	AREA PROVIDED
BUILDING	9.0%	0.05 AC.
PAVEMENT/IMPERVIOUS	58.9%	0.33 AC.
LANDSCAPING	32.1%	0.18 AC.
TOTAL	100%	0.56 AC.

CURRENT ZONING:
B-3 GENERAL BUSINESS DISTRICT

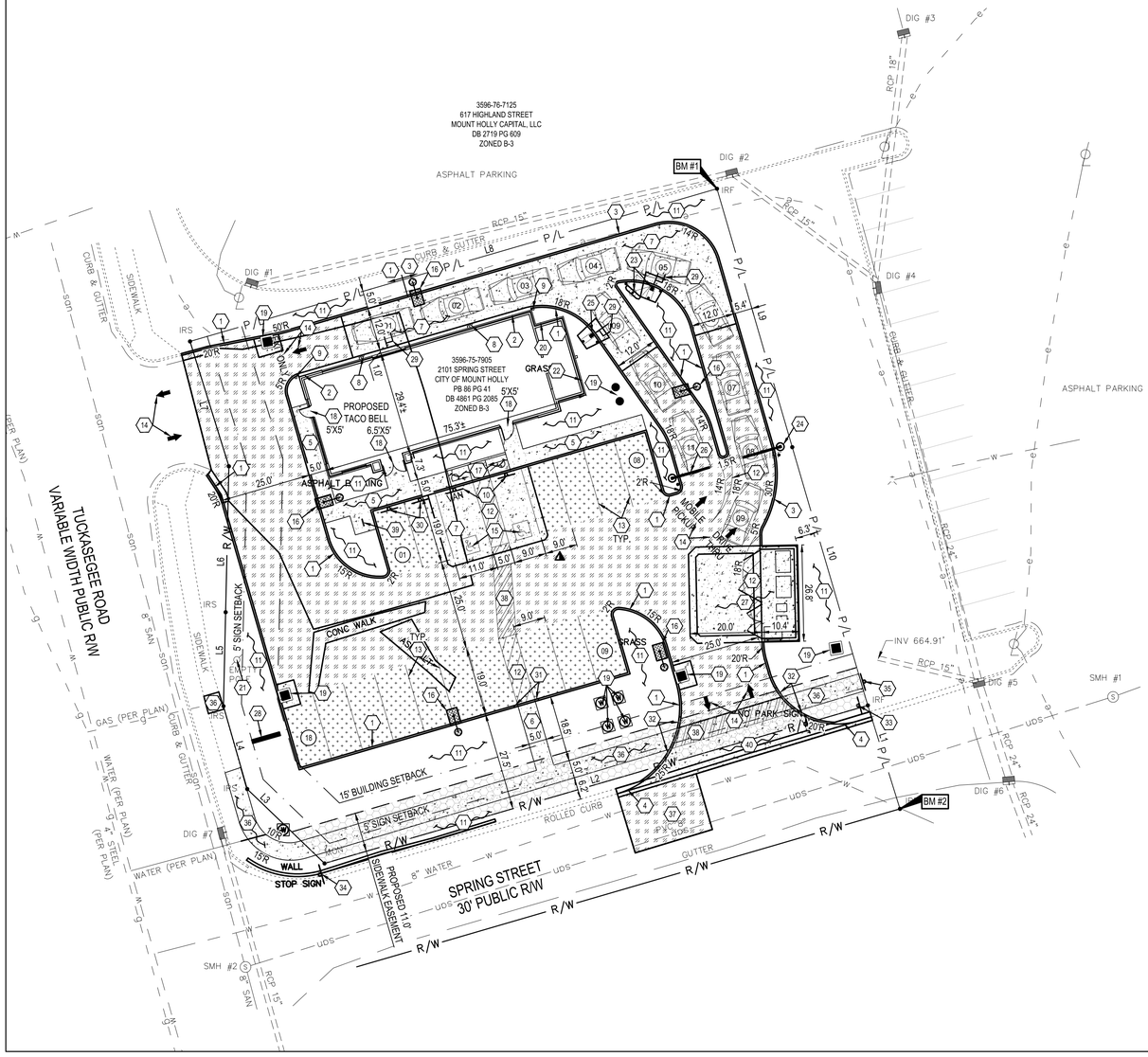
PROPOSED GENERAL LEGEND

- PROPOSED CATCH BASIN
- PROPOSED LIGHT POLE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED CURB
- PROPOSED TRAFFIC SIGN
- PROPOSED PAINTED ADA SYMBOL
- PROPOSED DIRECTIONAL PAVEMENT MARKINGS
- PROPOSED TRANSVERSE STRIPING
- PROPOSED CROSSWALK STRIPING
- PROPOSED SIDEWALK EASEMENT

SITE PLAN LEGEND

- PROPOSED STANDARD DUTY ASPHALT PER ASPHALT PAVEMENT TABLE THIS SHEET AND SHEET C-501.
- PROPOSED HEAVY DUTY ASPHALT PER ASPHALT PAVEMENT TABLE THIS SHEET AND SHEET C-501.
- PROPOSED CONCRETE
- CONSTRUCTION KEYNOTE
- PROPOSED PARKING SPACE NUMBER
- PROPOSED DRIVE THRU STACK CAR AND NUMBER

N
0 20
10 40
1"=20'
Horizontal Scale in Feet



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BENCHMARKS:
GPS VRS SURVEY ON THREE CONTROL POINTS NAD 83 2011 HARN.

TOPOGRAPHIC MAP IS BASED ON VERTICAL DATUM NAVD 88 GEOID 12A.

BENCHMARK #1 - EXISTING TOP OF IRON ROD.
ELEVATION = 669.62

BENCHMARK #2 - EXISTING TOP OF IRON ROD.
ELEVATION = 670.58

North Carolina 811 www.nc811.org

PLAN KEYNOTES (#)

1. PROPOSED P.C.C. CURB, SEE SHEET C-501.
2. PROPOSED CURB AT DRIVE THRU, SEE SHEET C-501.
3. PROPOSED FREESTANDING CURB, SEE SHEET C-501.
4. CONTRACTOR SHALL TRANSITION PROPOSED CURB TO EXISTING ROLLED CURB OVER 6'.
5. PROPOSED P.C.C. CURBED WALK, SEE SHEET C-501.
6. PROPOSED P.C.C. WALK, SEE SHEET C-501.
7. PROPOSED 6" P.C.C. PAVEMENT W/ W.W.F. 6" x 6"-W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER 6" CRUSHED AGGREGATE OR GRAVEL BASE. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT.
8. PROPOSED DETERRENT BOLLARD IN CURB, SEE SHEET C-501.
9. PROPOSED DETERRENT BOLLARD, SEE SHEET C-501.
10. PROPOSED ADA PARKING SIGN IN BOLLARD, SEE SHEET C-501.
11. PROPOSED LANDSCAPING AREA. SOD ALL DISTURBED AREAS EXCEPT WHERE PLANTING BEDS ARE INDICATED. SEE SHEET L-101.
12. PROPOSED PAINTED TRANSVERSE STRIPING, SEE SHEET C-501.
13. PROPOSED PAINTED 4" WIDE SOLID STRIPE - WHITE ON ASPHALT, YELLOW ON CONCRETE.
14. PROPOSED DIRECTIONAL PAVEMENT MARKINGS - WHITE ON ASPHALT, YELLOW ON CONCRETE, BLUE FOR ADA - SEE SHEET C-501. CONTRACTOR TO OBTAIN STENCILS FROM PAVEMENT MARKINGS VENDOR FOR TEXT PAVEMENT MARKINGS.
15. PROPOSED PAINTED INTERNATIONAL ADA SYMBOL PER ADA SPECIFICATIONS AND SHEET C-502.
16. PROPOSED LIGHT POLE AND FOUNDATION PER SHEET C-502. SEE ELECTRICAL DRAWINGS.
17. PROPOSED ADA ACCESSIBLE RAMP PER ADA SPECIFICATIONS AND SHEET C-502.
18. PROPOSED FROST SLAB AT DOOR. SEE STRUCTURAL PLANS FOR DETAIL.
19. PROPOSED UTILITY STRUCTURES, SEE SHEET C-131 FOR DESIGN INFORMATION.
20. PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
21. PROPOSED POLE MOUNTED ELECTRICAL TRANSFORMER PER ELECTRICAL COMPANY SPECIFICATIONS. G.C. TO VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER.
22. PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
23. PROPOSED MENU BOARD, SPEAKER POST, AND CANOPY PER SIGN SUPPLIER SPECIFICATIONS AND SHEET C-502. SIGN SUPPLIER TO PROVIDE A TEMPLATE FOR G.C. G.C. TO COORDINATE A MEETING WITH THE CONSTRUCTION/PROJECT MANAGER AND OPERATIONS TO VERIFY LOCATION AND PLACEMENT OF MENU BOARD, SPEAKER POST, AND CANOPY PRIOR TO ANY CONSTRUCTION. SIGN SUPPLIER SHALL PROVIDE G.C. WITH FOUNDATION DETAILS. G.C. RESPONSIBLE FOR SIGN FOUNDATIONS/ELECTRICAL.
24. PROPOSED EVOLUTION PORTAL CLEARANCE BAR "ORDER HERE", SEE SHEET C-502.
25. PROPOSED SPEAKER POST AND CANOPY PER SIGN SUPPLIER SPECIFICATIONS AND SHEET C-502. SIGN SUPPLIER TO PROVIDE A TEMPLATE FOR G.C. G.C. TO COORDINATE A MEETING WITH THE CONSTRUCTION/PROJECT MANAGER AND OPERATIONS TO VERIFY LOCATION AND PLACEMENT OF SPEAKER POST AND CANOPY PRIOR TO ANY CONSTRUCTION. SIGN SUPPLIER SHALL PROVIDE G.C. WITH FOUNDATION DETAILS. G.C. RESPONSIBLE FOR SIGN FOUNDATIONS/ELECTRICAL.
26. PROPOSED EVOLUTION PORTAL CLEARANCE BAR "MOBILE PICKUP", SEE SHEET C-502.
27. PROPOSED WOODEN DUMPSTER ENCLOSURE ON P.C.C. PAD OVER CRUSHED AGGREGATE OR GRAVEL BASE, SEE ARCHITECTURAL PLANS. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT.
28. PROPOSED MONUMENT SIGN PER SIGN SUPPLIER SPECIFICATIONS AND IN COMPLIANCE WITH CITY SIGN REGULATIONS. SIGN SUPPLIER SHALL DESIGN AND INSTALL FOUNDATION.
29. PROPOSED SENSOR LOOP. SEE ELECTRICAL DRAWINGS FOR DETAILS.
30. PROPOSED "MOBILE PICK UP" PARKING SIGNS IN BOLLARD. CONTRACTOR TO INSTALL SIGN POST AND BOLLARD PER THE ADA PARKING SIGN DETAIL. SIGN TO BE BY SIGN VENDOR.
31. PROPOSED 1' CURB TAPER, SEE SHEET C-501.
32. PROPOSED 3' CURB TAPER, SEE SHEET C-501.
33. PROPOSED LOCATION OF REINSTALLED 'DO NOT PARK' SIGN. CONTRACTOR TO REINSTALL PER NCDOT STANDARDS AND SPECIFICATIONS.
34. PROPOSED LOCATION OF REINSTALLED 'STOP' SIGN. CONTRACTOR TO REINSTALL PER NCDOT STANDARDS AND SPECIFICATIONS.
35. PROPOSED 'END OF WALK' SIGN., SEE SHEET C-502.
36. PROPOSED 5' CONCRETE WALK PER CITY OF MOUNT HOLLY STANDARD DRAWING R-114 AND SHEET C-504.
37. PROPOSED PAVEMENT REPAIR PER CITY OF MOUNT HOLLY STANDARD DRAWING R-124 AND SHEET C-504.
38. PROPOSED 5' WIDE PAINTED CROSSWALK STRIPING, SEE SHEET C-501.
39. PROPOSED BIKE RACK, SEE SHEET C-502
40. PROPOSED COMMERCIAL DRIVEWAY PER CITY OF MOUNT HOLLY STANDARD DRAWING R-121 AND SHEET C-504.

CONSTRUCTION PLAN (MAJOR AND MINOR)

CONSTRUCTION PLAN APPROVED

PLANNING AND DEVELOPMENT DEPARTMENT

DATE: _____

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879

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PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd,
Mount Holly, NC 28120

TACO BELL

ENDEAVOR 2.0

SITE PLAN

C-111

PLOT DATE:

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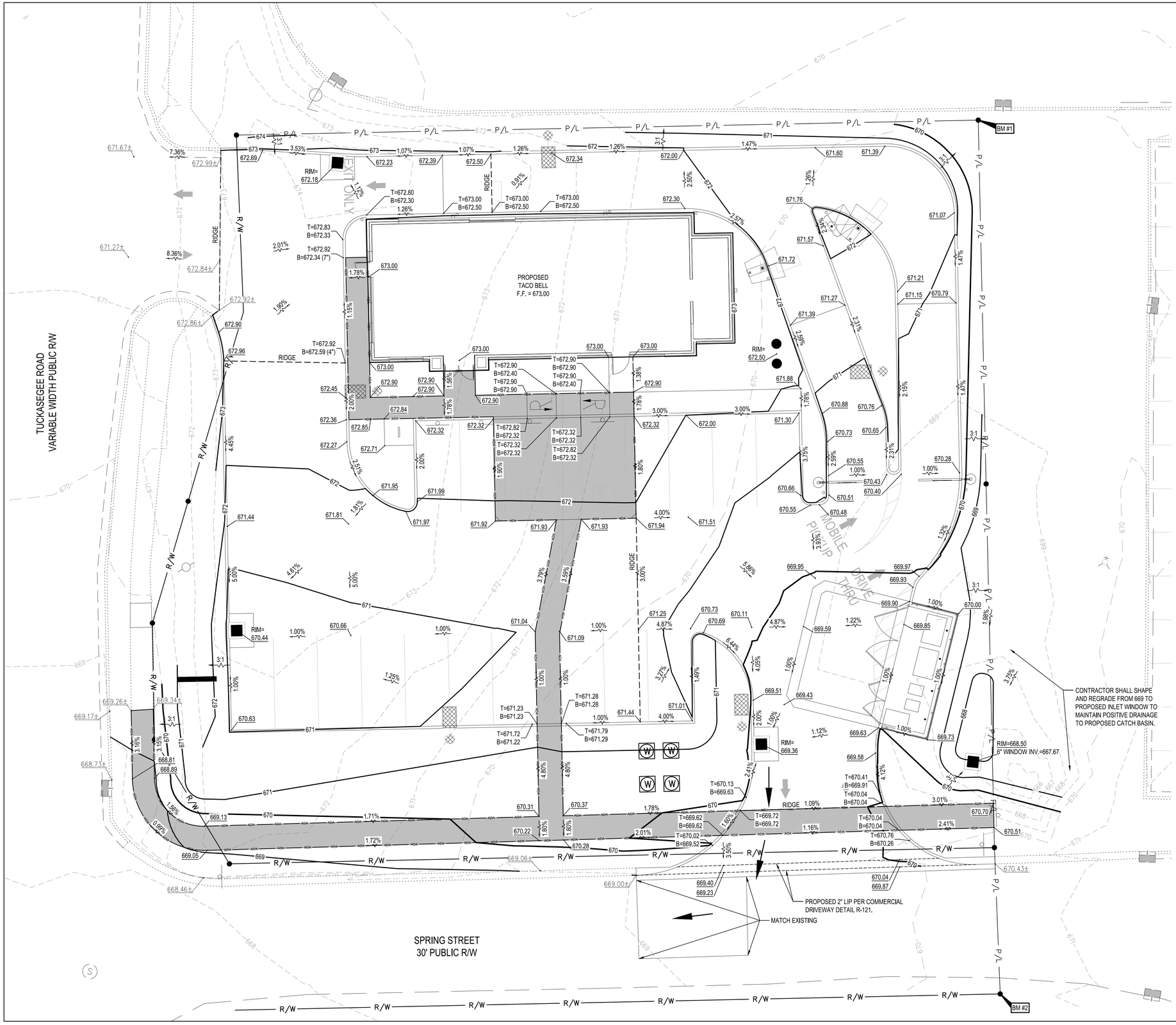

N

0 10
5 20
1"=10'
Horizontal Scale in Feet

LEGEND

- 000 — PROPOSED CONTOUR
- XXX.XX± — EXISTING SPOT ELEVATION/ MATCH EXISTING GRADE
- XXX.XX — PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
- T=XXX.XX / B=XXX.XX — TOP OF CURB ELEVATION / BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
- 0.0% — PROPOSED DRAINAGE SLOPE & DIRECTION
- (#) — PROPOSED ELEVATION KEYNOTE
- ADA — LIMITS OF ADA ROUTING
- OVERLAND FLOW ROUTE

REFER TO GEOTECHNICAL REPORT PRIOR TO GRADING FOR ALL SUBSURFACE PREPARATION AND UNDERCUTTING OF UNSUITABLE MATERIALS.

BENCHMARKS:
GPS VRS SURVEY ON THREE CONTROL POINTS NAD 83 2011 HARN.

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BENCHMARK #1 - EXISTING TOP OF IRON ROD.
ELEVATION = 669.62

BENCHMARK #2 - EXISTING TOP OF IRON ROD.
ELEVATION = 670.58

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED PLANNING AND DEVELOPMENT DEPARTMENT DATE:

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GRADING PLAN

C-121

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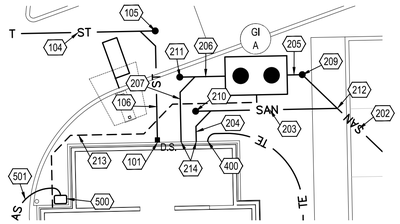

C1 ENLARGEMENT
1"=10'

N

0 20
10 40
1"=20'
Horizontal Scale in Feet

LEGEND

ST	PROPOSED STORM SEWER (12" AND SMALLER)
SAN	PROPOSED SANITARY SEWER
W	PROPOSED WATER SERVICE
GAS	PROPOSED GAS SERVICE
E	PROPOSED UNDERGROUND ELECTRIC AND TELEPHONE SERVICE
D.S. ■	PROPOSED DOWNSPOUT
A #	APPURTENANCES
#	UTILITY CONSTRUCTION KEYNOTE

UTILITY NOTE:
PROPOSED WATER METERS AND/OR SEWER CLEANOUTS SHALL NOT BE LOCATED IN CONCRETE SIDEWALKS OR COMMERCIAL DRIVEWAY APRONS.

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ELEVATION = 670.58

North Carolina 811 www.nc811.org

Pipe Table	
Pipe Name	Design
ST-1	44 LF OF 12" HDPE @ 2.33%
ST-2	111 LF OF 12" HDPE @ 1.00%
ST-3	99 LF OF 12" HDPE @ 1.00%
ST-4	12 LF OF 15" RCP @ 3.83%

PROPOSED STRUCTURE TABLE	
Structure Name	Structure Details
CB-01	PROP. CATCH BASIN (SEE SHEET C-503) * FINGER DRAINS (N,E,S) RIM = 669.36 12" HDPE INV (E)=666.51 12" HDPE INV (W)=666.51
CB-02	PROP. CATCH BASIN (SEE SHEET C-503) * FINGER DRAINS (N,E,S) RIM = 670.44 12" HDPE INV (E)=667.62 12" HDPE INV (N)=667.62
CB-03	PROP. CATCH BASIN (SEE SHEET C-503) * FINGER DRAINS (W,E,S) RIM = 672.18 12" HDPE INV (S)=668.61 6" PVC INV (E)=669.11
CB-04	PROP. NCDOT CONCRETE OPEN THROAT CATCH BASIN PER NCDOT STD. DWG. 840.04 RIM = 668.50 12" HDPE INV (W)=665.49 15" RCP INV (E)=665.37 6" WINDOW INV (N)=667.67
GI A	PROPOSED 1,000 GALLON EXTERIOR GREASE INTERCEPTOR RIM = 672.50 INV. 6" PVC (N)=668.25 INV. 6" PVC (S)=668

* FINGER DRAIN INVERT SHALL MATCH THE BOTTOM OF THE PAVEMENT AGGREGATE BASE

EXISTING STRUCTURES	
STRCT. ID	STRUCTURE DETAILS
DIG 1	EXISTING CATCH BASIN RIM=669.90 INV. 15" (NE)=665.70
DIG 2	EXISTING CATCH BASIN RIM=669.72 INV. 15" (SW)=665.16 INV. 15" (SE)=664.87
DIG 3	EXISTING CATCH BASIN RIM=670.37 INV. 18" (S)=664.77
DIG 4	EXISTING CATCH BASIN RIM=669.37 INV. 15" (NW)=664.52 INV. 18" (NE)=664.52 INV. 24" (S)=664.52
DIG 5	EXISTING CATCH BASIN RIM=669.21 INV. 15" (NW)=663.82 INV. 24" (N,S)=663.82
DIG 6	EXISTING CATCH BASIN RIM=671.75 INV. 24" (N,S)=663.90
DIG 7	EXISTING CATCH BASIN RIM=668.71 INV. 15" (S)=665.35
DIG 8	EXISTING CATCH BASIN RIM=665.95 INV. 15" (N,S)=663.95
EX SAN 1	EXISTING SANITARY SEWER MANHOLE RIM=672.26 INV. 8" (NE)=661.96 INV. 8" (SW)=661.76
EX SAN 2	EXISTING SANITARY SEWER MANHOLE RIM=667.41 INV. 8" (NE)=660.36 INV. 8" (NW,SE)=660.31

PLAN KEYNOTES

STORM

100. PROPOSED DOWNSPOUT COLLECTOR LINE @ 2.00% MINIMUM. 11 L.F.
101. BUILDING INV. = 670.50
102. PROPOSED 96 L.F. OF 6" PVC STORM SEWER @ 1.00%
103. PROPOSED STORM CLEANOUT, SEE SHEET C-503. RIM = 671.65, 6" INV. = 670.07
104. PROPOSED 28 L.F. OF 6" PVC STORM SEWER @ 1.00%
105. PROPOSED STORM CLEANOUT, SEE SHEET C-503. RIM = 671.49, 6" INV. = 670.35
106. PROPOSED 14 L.F. OF 6" PVC STORM SEWER @ 1.00%.
107. CONTRACTOR TO SHALL PROVIDE A WATERTIGHT CONNECTION TO EXISTING 15" RCP CULVERT. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR SHALL VERIFY EXISTING PIPE IS IN GOOD CONDITION AND FREE FLOWING. NOTIFY CONSTRUCTION MANGER IMMEDIATELY IF CONDITIONS ARE INADEQUATE FOR CONNECTION.

SANITARY

200. PROPOSED SANITARY CONNECTION. EXISTING 8" INV=661.08±. PROP 6" INV. = 661.08. CONTRACTOR SHALL CORE DRILL EXISTING LINE AND PROVIDE A WATERTIGHT CONNECTION.
201. PROPOSED 73 L.F. OF 6" PVC SANITARY SEWER @ 5.61%.
202. PROPOSED 19 L.F. OF 6" PVC SANITARY SEWER @ 5.61%.
203. PROPOSED 19 L.F. OF 6" PVC SANITARY SEWER @ 6.48%.
204. PROPOSED 4 L.F. OF 6" PVC SANITARY SEWER @ 6.48%.
205. PROPOSED 2 L.F. OF 6" PVC SANITARY SEWER @ 5.61%.
206. PROPOSED 6 L.F. OF 6" PVC SANITARY SEWER @ 5.16%.
207. PROPOSED 8 L.F. OF 6" PVC SANITARY SEWER @ 5.16%.
208. PROPOSED SANITARY CLEANOUT SEE SHEET C-503. RIM = 671.56, 6" INV=666.82.
209. PROPOSED SANITARY CLEANOUT SEE SHEET C-503. RIM = 672.18, 6" INV=667.89.
210. PROPOSED SANITARY CLEANOUT SEE SHEET C-503. RIM = 672.60, 6" INV=668.74.
211. PROPOSED SANITARY CLEANOUT SEE SHEET C-503. RIM = 672.38, 6" INV=668.56.
212. PROPOSED SANITARY WYE CONNECTION, SEE SHEET C-503. 6" INV=667.53.
213. PROPOSED 3" SANITARY VENT PIPE, SEE MECHANICAL PLANS.
214. PROPOSED 6" INV. AT BUILDING = 669.00.
215. PROPOSED SANITARY CLEANOUT SEE SHEET C-503. RIM = 670.02, 6" INV=662.74.
216. PROPOSED 30 L.F. OF 6" PVC SANITARY SEWER @ 5.61%.

WATER

300. PROPOSED WATER CONNECTION. COORDINATE WITH PLUMBING PLANS.
301. PROPOSED CONNECTION TO EXISTING 8" WATER LINE. CONTRACTOR SHALL PROVIDE NEW 2" WATER METER AND BACKFLOW PERVENTION PER CITY OF MOUNT HOLLY STANDARDS DRAWING W-307 AND W-317, SEE SHEET C-505. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATION OF EXISTING LINE AND NOTIFY CONSTRUCTION MANAGER IMMEDIATELY IF THERE IS ANY DISCREPANCIES.
302. PROPOSED 112 L.F. 1.5" COPPER TYPE 'K' WATER SERVICE LINE.
303. PROPOSED 1" IRRIGATION CONNECTION, METER AND BACKFLOW PREVENTION. UNDER SEPARATE CONTRACT.

ELECTRIC AND COMMUNICATIONS

400. PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. ELECTRIC SERVICE LINE TO BE COORDINATED WITH THE ELECTRIC COMPANY.
401. PROPOSED ELECTRIC AND TELECOMMUNICATIONS SERVICE CONNECTION TO BE COORDINATED WITH THE UTILITY COMPANIES.
402. PROPOSED LIGHT POLE, SEE SHEET C-502. SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS.
403. PROPOSED ELECTRICAL POLE MOUNTED TRANSFORMER PER ELECTRICAL COMPANY SPECIFICATIONS. G.C. TO VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER.
404. EXISTING ELECTRIC LINES, PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL FIELD LOCATE AND RELOCATE AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS.

GAS

500. PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. GAS SERVICE LINE TO BE COORDINATED WITH THE GAS COMPANY.
501. PROPOSED 181 L.F. GAS SERVICE CONNECTION TO BE COORDINATED WITH THE GAS COMPANY.

UTILITY CROSSINGS

GENERAL UTILITY CROSSING NOTES:
1. CONTRACTOR SHALL COORDINATE ALL CROSSINGS/RELOCATIONS WITH THE RESPECTIVE UTILITY COMPANIES.
2. EXISTING AND PROPOSED PRESSURIZED (WATER & GAS) AND SECONDARY (ELECTRIC & COMMUNICATIONS) UTILITIES SHALL DEFLECT TO MAINTAIN 18" CLEAR AT SANITARY OR STORM SEWER CROSSINGS WHEN CONFLICTS OCCUR.
3. WHEN A PROPOSED PRESSURIZED/SECONDARY UTILITY IS IN CROSSING CONFLICT WITH AN EXISTING PRESSURIZED/SECONDARY UTILITY, THE PROPOSED UTILITY SHALL DEFLECT TO OBTAIN MINIMUM CLEARANCE.
4. CONTRACTOR SHALL FIELD LOCATE EXISTING PRESSURIZED/SECONDARY UTILITIES AT PROPOSED CROSSINGS.

1. PROP. GAS (SEE NOTES ABOVE) / PROP. 6" STORM INV. = 670.33
2. PROP. GAS (SEE NOTES ABOVE) / PROP. 6" STORM INV. = 670.26
3. PROP. GAS (SEE NOTES ABOVE) / PROP. 12" STORM INV. = 668.46
4. PROP. GAS (SEE NOTES ABOVE) / PROP. ELECTRIC/TELEPHONE (SEE NOTES ABOVE)
5. PROP. ELECTRIC/TELEPHONE (SEE NOTES ABOVE) / PROP. 12" STORM INV. = 667.89
6. PROP. WATER (SEE NOTES ABOVE) / PROP. 12" STORM INV. = 666.70
7. PROP. 12" STORM INV. = 666.49 / PROP. 6" SANITARY INV. = 663.52
8. PROP. ELECTRIC/TELEPHONE (SEE NOTES ABOVE) / PROP. WATER (SEE NOTES ABOVE)

CONSTRUCTION PLAN (MAJOR AND MINOR)

CONSTRUCTION PLAN APPROVED

PLANNING AND DEVELOPMENT DEPARTMENT

DATE: _____

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

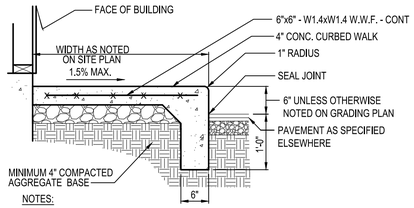
ENDEAVOR 2.0

UTILITY PLAN

C-131

PLOT DATE:

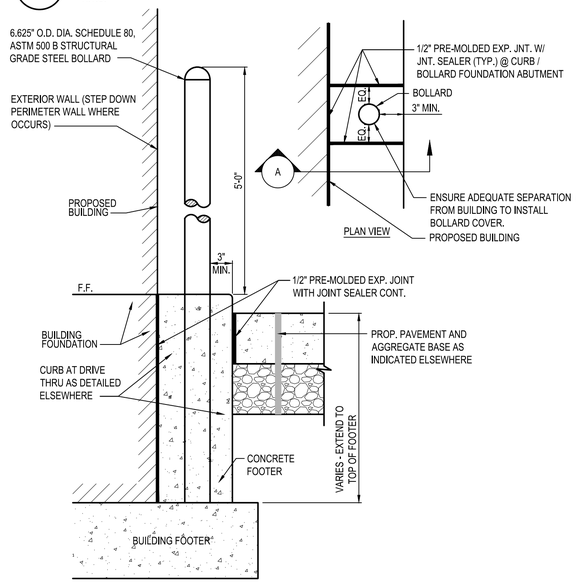
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



NOTES:

1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.

C1 P.C.C CURBED WALK
N.T.S.

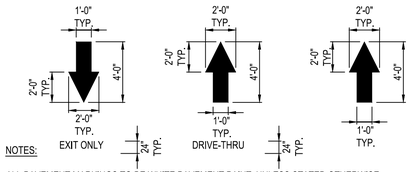


NOTE:

1. CONTRACTOR SHALL PAINT STEEL PIPE WITH AN EXTERIOR RUST INHIBITIVE PAINT SUCH AS SHERWIN-WILLIAMS MACROPOXY 646 FAST CURE (B58W610), IN ACCORDANCE WITH MANUFACTURERS PREPARATION REQUIREMENTS AND PROVIDE A YELLOW BOLLARD COVER. COVER SUCH AS A STREET SMART SOLUTIONS POST GUARD, DOME-TOP COVER BY US-POSTMAN.COM OR APPROVED EQUAL.

2. WHERE UTILIZED FOR PEDESTRIAN SEPARATION/ PROTECTION CONTRACTOR SHALL INSTALL A CRASH RATED BOLLARD AND FOOTING PER ASTM F3016/3016M. TYPICAL SPACING OF 5'-6" CENTER TO CENTER WITH AN ANTICIPATED S20 RATING FOR BIDDING PURPOSES - FINAL SPACING AND RATING SHALL BE IN ACCORDANCE WITH ASTM AND THE MANUFACTURERS REQUIREMENTS FOR PROPOSED LOCATIONS AND POSSIBLE VEHICLE APPROACH SPEED. UTILIZATION OF CRASHCORE BOLLARD BY MCCUE.COM OR APPROVED EQUAL SHALL BE IN ACCORDANCE WITH MANUFACTURE SPECIFICATIONS. CONTRACTOR SHALL BE OR BECOME CERTIFIED INSTALLERS, CONTACT MANUFACTURER(S) FOR DETAILS.

B1 DETERRENT BOLLARD IN CURB
N.T.S.



NOTES:

ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS WITHIN ADA AREAS SHALL BE PAINTED BLUE EXCEPT FOR COLORS DEFINED ON THE ADA PAVEMENT SYMBOL.

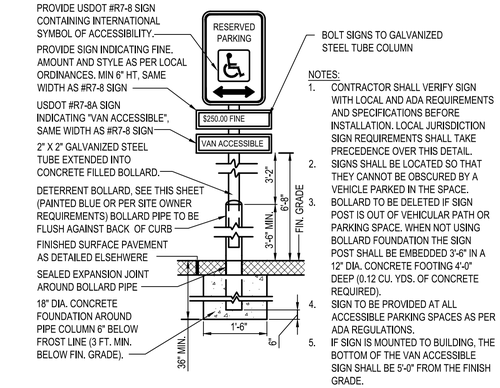
MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:

PAVEMENT MARKINGS PAINT SHALL BE WATER BASE FAST DRYING 100% ACRYLIC TYPE: WATER BASE TO MEET FEDERAL SPECIFICATION TTP-01952B. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D1394, D3723, D1475, D562 AND D711

PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.

APPLY 2 COATS WITH STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT. CONTRACTOR SHALL APPLY THE SECOND COAT NO SOONER THAN 30 DAYS OF APPLYING THE FIRST COAT.

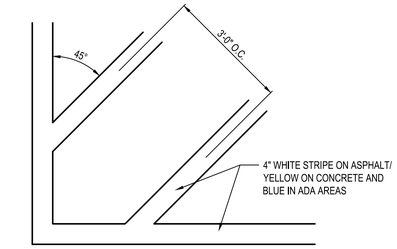
A1 PAVEMENT MARKINGS & NOTES
N.T.S.



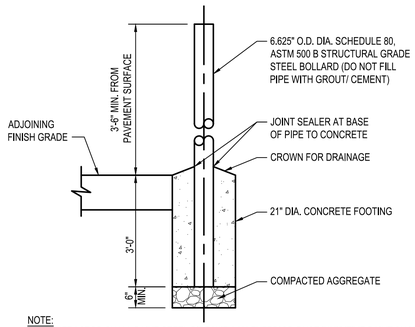
NOTES:

1. CONTRACTOR SHALL VERIFY SIGN WITH LOCAL AND ADA REQUIREMENTS AND SPECIFICATIONS BEFORE INSTALLATION. LOCAL JURISDICTION SIGN REQUIREMENTS SHALL TAKE PRECEDENCE OVER THIS DETAIL.
2. SIGNS SHALL BE LOCATED SO THAT THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
3. BOLLARD TO BE DELETED IF SIGN POST IS OUT OF VEHICULAR PATH OR PARKING SPACE. WHEN NOT USING BOLLARD FOUNDATION THE SIGN POST SHALL BE EMBEDDED 3'-6" IN A 12" DIA. CONCRETE FOOTING 4'-0" DEEP (0.12 CU. YDS. OF CONCRETE REQUIRED).
4. SIGN TO BE PROVIDED AT ALL ACCESSIBLE PARKING SPACES AS PER ADA REGULATIONS.
5. IF SIGN IS MOUNTED TO BUILDING, THE BOTTOM OF THE VAN ACCESSIBLE SIGN SHALL BE 5'-0" FROM THE FINISH GRADE.

C2 ADA PARKING SIGN IN BOLLARD
N.T.S.



B2 TRANSVERSE STRIPING
N.T.S.



NOTE:

1. CONTRACTOR SHALL PAINT STEEL PIPE WITH AN EXTERIOR RUST INHIBITIVE PAINT SUCH AS SHERWIN-WILLIAMS MACROPOXY 646 FAST CURE (B58W610), IN ACCORDANCE WITH MANUFACTURERS PREPARATION REQUIREMENTS AND PROVIDE A YELLOW (BLUE FOR ADA) BOLLARD COVER. COVER SUCH AS A STREET SMART SOLUTIONS POST GUARD, DOME-TOP COVER BY US-POSTMAN.COM OR APPROVED EQUAL.

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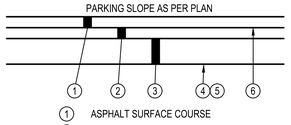
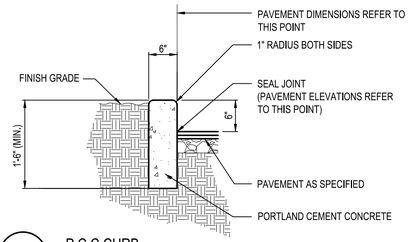
A2 DETERRENT BOLLARD
N.T.S.



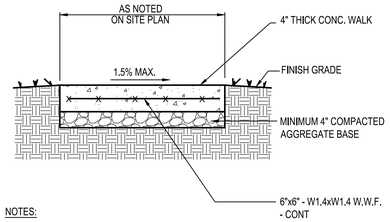
NOTES:

1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT INCLUDING SAW CUT JOINTS.
2. SEE SITE PLAN FOR PAVEMENT THICKNESSES.
3. NO RAP SHALL BE PERMITTED IN ASPHALT SURFACE COURSE.

C3 TYPICAL PAVEMENT SECTION
N.T.S.



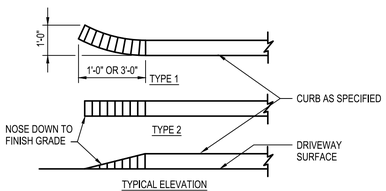
C4 P.C.C CURB
N.T.S.



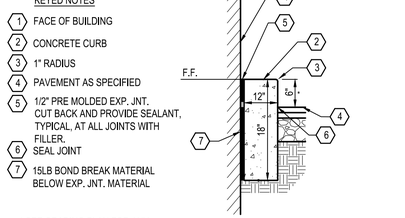
NOTES:

1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.

B3 P.C.C. WALK
N.T.S.

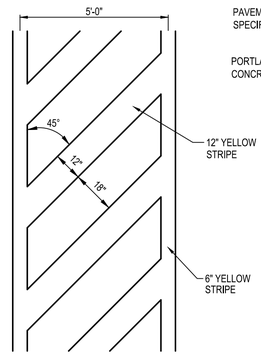


A3 CURB TAPER
N.T.S.

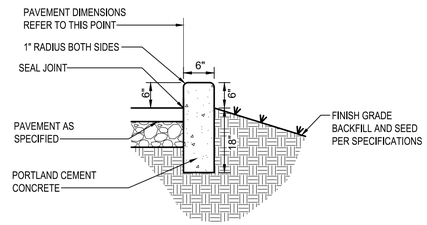


* SEE GRADING PLAN FOR ANY VARIATIONS TO EXPOSED CURB HEIGHT.

B4 CURB AT DRIVE THRU
N.T.S.



A4 CROSSWALK STRIPING
N.T.S.



A5 P.C.C. FREESTANDING CURB
N.T.S.

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED PLANNING AND DEVELOPMENT DEPARTMENT DATE:

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

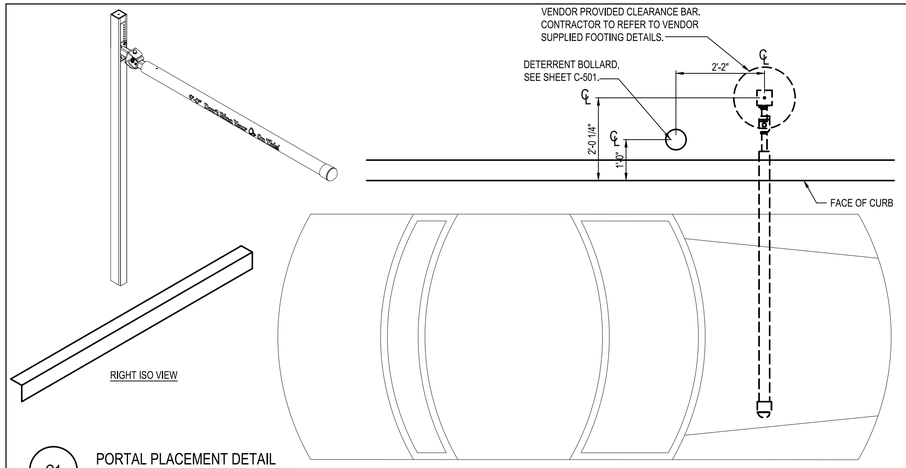
ENDEAVOR 2.0

DETAILS

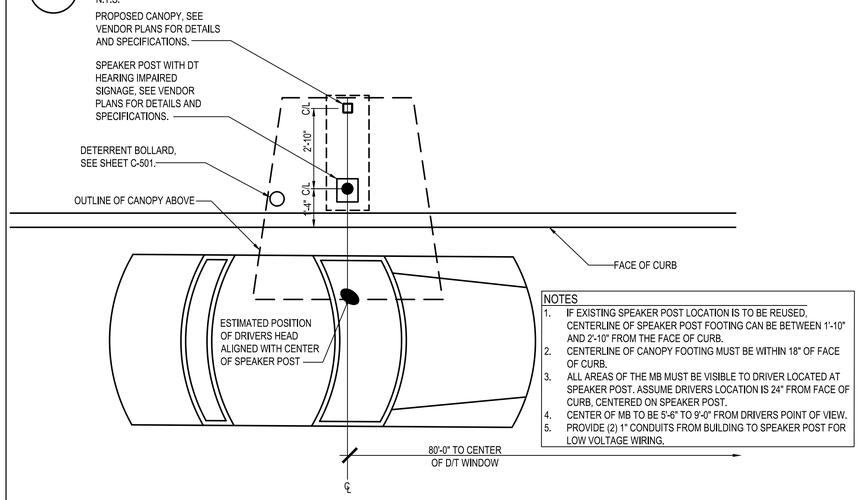
C-501

PLOT DATE:

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

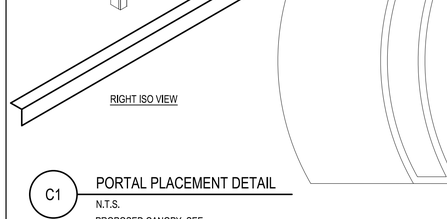


C1 PORTAL PLACEMENT DETAIL
N.T.S.



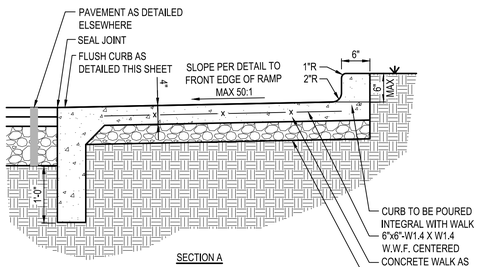
NOTES
1. IF EXISTING SPEAKER POST LOCATION IS TO BE REUSED, CENTERLINE OF SPEAKER POST FOOTING CAN BE BETWEEN 1'-10" AND 2'-10" FROM THE FACE OF CURB.
2. CENTERLINE OF CANOPY FOOTING MUST BE WITHIN 18" OF FACE OF CURB.
3. ALL AREAS OF THE MB MUST BE VISIBLE TO DRIVER LOCATED AT SPEAKER POST. ASSUME DRIVERS LOCATION IS 24" FROM FACE OF CURB, CENTERED ON SPEAKER POST.
4. CENTER OF MB TO BE 5'-6" TO 9'-0" FROM DRIVERS POINT OF VIEW.
5. PROVIDE (2) 1" CONDUITS FROM BUILDING TO SPEAKER POST FOR LOW VOLTAGE WIRING.

B1 ENLARGED SPEAKER POST DETAIL @ STRAIGHT CURB
N.T.S.



PARALLEL RAMP

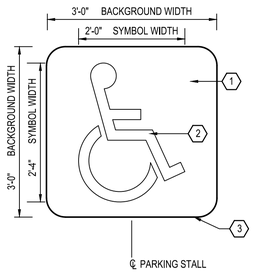
NOTE:
PAINT CURB TAPERS YELLOW PER PAVEMENT MARKINGS AND NOTES DETAIL, SHEET C-501.



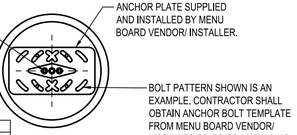
SECTION A

A1 ADA ACCESSIBLE RAMP
N.T.S.

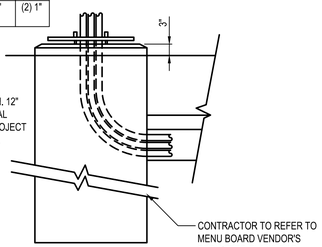
KEYED NOTES
1. PAINT BACKGROUND BENJAMIN MOORE M58 SAFETY & ZONE MARKING LATEX M58-30 - BLUE
2. PAINT SYMBOL BENJAMIN MOORE M58 SAFETY & ZONE MARKING LATEX M58-01 - WHITE 4" WIDTH
3. BOTTOM EDGE OF SYMBOL BOX SHALL MATCH END OF STALL STRIPE AT DRIVE AISLE END OF STALL.



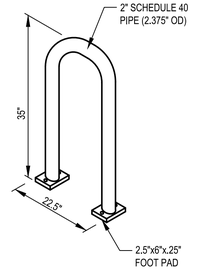
A2 ADA PAVEMENT SYMBOL
N.T.S.



CONDUIT SCHEDULE		
DEVICE	POWER	DATA
DIRECTIONAL	(1) 3/4"	-
SPEAKER POST	(1) 1"	(1) 1"
MENU BOARD	(1) 1"	(2) 1"
PREVIEW BOARD (OPTIONAL)	(1) 1"	(2) 1"



C3 FOUNDATION CONDUIT DETAIL
N.T.S.



PRODUCT: DERO HOOP RACK HEAVY DUTY
DERO BIKE RACKS (OR APPROVED EQUAL)
WWW.DERO.COM
1-800-298-4915

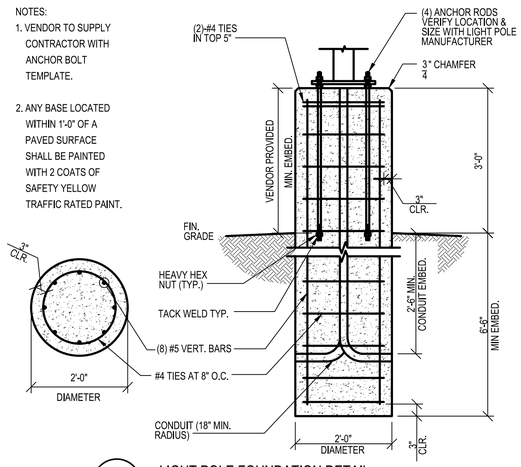
CAPACITY: 2 BIKES

MATERIALS: 2" SCHEDULE 40 PIPE (2.375" OD)

CONTRACTOR SHALL COORDINATE FINISH AND PREFERRED INSTALLATION METHOD WITH CONSTRUCTION MANAGER.

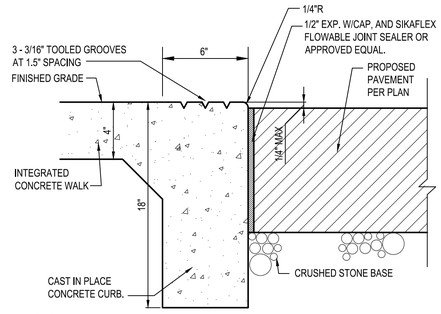
C4 BIKE RACK DETAIL
N.T.S.

NOTES:
1. VENDOR TO SUPPLY CONTRACTOR WITH ANCHOR BOLT TEMPLATE.
2. ANY BASE LOCATED WITHIN 1'-0" OF A PAVED SURFACE SHALL BE PAINTED WITH 2 COATS OF SAFETY YELLOW TRAFFIC RATED PAINT.



C5 LIGHT POLE FOUNDATION DETAIL
N.T.S.

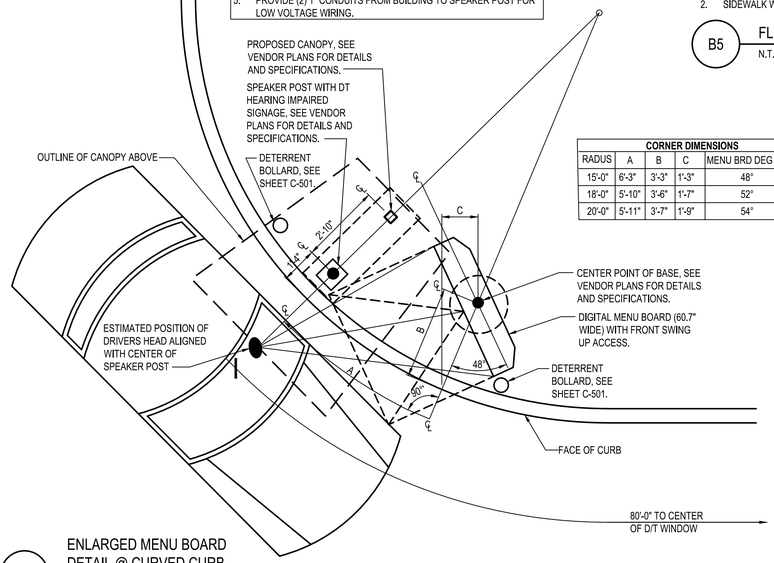
B3 END OF WALK SIGN
N.T.S.



NOTES:
1. REFER TO CONCRETE NOTES ON SHEET C-001 FOR CONCRETE SPECIFICATION.
2. SIDEWALK WIDTH AS SHOWN ON SITE PLAN.

B5 FLUSH CURB
N.T.S.

NOTES
1. IF EXISTING SPEAKER POST LOCATION IS TO BE REUSED, CENTERLINE OF SPEAKER POST FOOTING CAN BE BETWEEN 1'-10" AND 2'-10" FROM THE FACE OF CURB.
2. CENTERLINE OF CANOPY FOOTING MUST BE WITHIN 18" OF FACE OF CURB.
3. ALL AREAS OF THE MB MUST BE VISIBLE TO DRIVER LOCATED AT SPEAKER POST. ASSUME DRIVERS LOCATION IS 24" FROM FACE OF CURB, CENTERED ON SPEAKER POST.
4. CENTER OF MB TO BE 5'-6" TO 9'-0" FROM DRIVERS POINT OF VIEW.
5. PROVIDE (2) 1" CONDUITS FROM BUILDING TO SPEAKER POST FOR LOW VOLTAGE WIRING.



CORNER DIMENSIONS				
RADIUS	A	B	C	MENU BRD DEG TILT
15'-0"	6'-3"	3'-3"	1'-3"	48°
18'-0"	5'-10"	3'-6"	1'-7"	52°
20'-0"	5'-11"	3'-7"	1'-9"	54°

A3 ENLARGED MENU BOARD DETAIL @ CURVED CURB
N.T.S.

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED PLANNING AND DEVELOPMENT DEPARTMENT DATE:

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END, MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

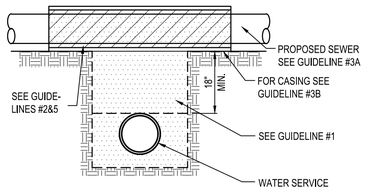
TACO BELL
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
DETAILS

C-502

PLOT DATE:

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

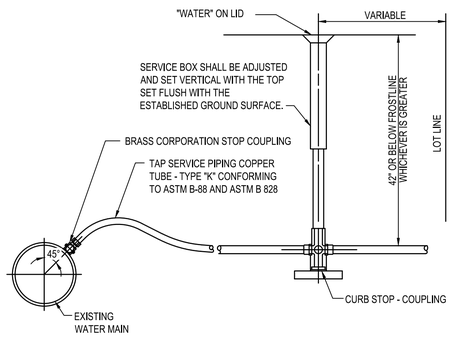


NOTES:
PROPOSED WATER SERVICE BELOW PROPOSED SEWER LINE WITH 18" MINIMUM SEPARATION.
GRANULAR MATERIAL TO BE COMPACTED TO 75% OF RELATIVE DENSITY.

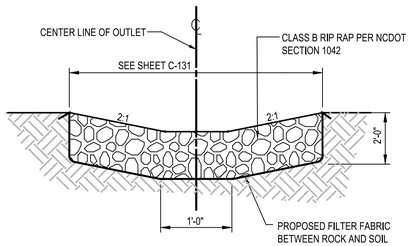
GUIDELINES:

1. IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL AND COMPACT.
2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL AND COMPACT FOR 10 FEET ON EITHER SIDE OF WATER MAIN
3. A. CONSTRUCT 10 FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR; B. USE 10 FEET OF CASING FOR PROPOSED SEWER AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
5. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

C1 WATER & SEWER TRENCH SEPARATOR
N.T.S.



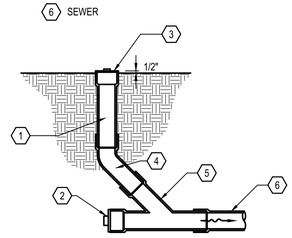
C2 WATER SERVICE TAP
N.T.S.



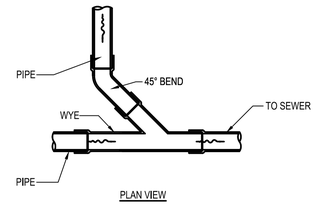
C3 RIP RAP
N.T.S.

KEYED NOTES

1. 6" DIA. CLEAN-OUT PIPE
2. CAP AND SEAL CONDUIT
3. THREADED CLEAN-OUT CAP
4. 45° BEND
5. WYE
6. SEWER



C5 STORM CLEAN OUT (LAWN AREA)
N.T.S.

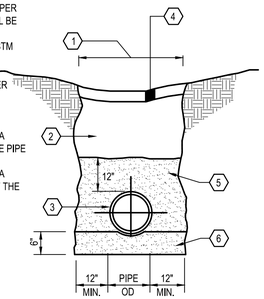


PLAN VIEW

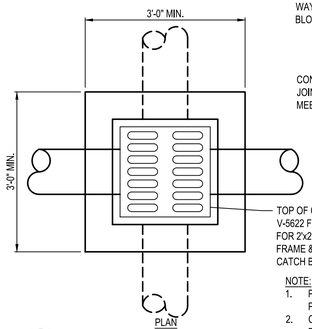
C5 WYE CONNECTION
N.T.S.

KEYED NOTES

1. EXCAVATE WIDTH OF TRENCH AS NEEDED
2. PLACE SUITABLE SOIL OR GRANULAR BACKFILL IN 6" MAX. LIFTS. SUITABLE SOIL SHALL BE COMPACTED TO 90% MIN. (98% MIN. UNDER PAVEMENT) DRY DENSITY, PER ASTM D698, GRANULAR BACKFILL SHALL BE COMPACTED TO 75% (80% UNDER PAVEMENT) RELATIVE DENSITY, PER ASTM 4353. GRANULAR BACKFILL REQUIRED UNDER PAVEMENT.
3. PROPOSED STORM OR SANITARY SEWER
4. TOPSOIL, SEED, AND MULCHING OR PAVEMENT AS DETAILED ELSEWHERE.
5. NO. 57 OR NO. 67 AGGREGATE PLACED A MINIMUM OF 12" ABOVE THE TOP OF THE PIPE
6. NO. 57 OR NO. 67 AGGREGATE PLACED A MINIMUM OF 6" BELOW THE BOTTOM OF THE PIPE



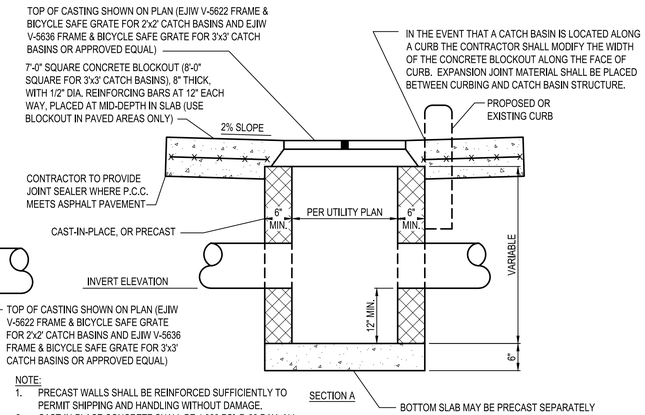
B1 SEWER TRENCH
N.T.S.



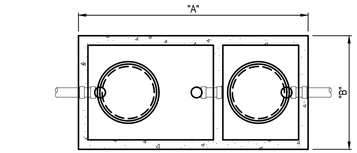
TOP OF CASTING SHOWN ON PLAN (EJIW V-5622 FRAME & BICYCLE SAFE GRATE FOR 2'x2' CATCH BASINS AND EJIW V-5636 FRAME & BICYCLE SAFE GRATE FOR 3'x3' CATCH BASINS OR APPROVED EQUAL)

NOTE:

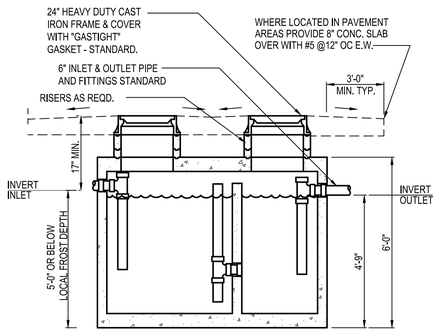
1. PRECAST WALLS SHALL BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.
2. CAST-IN-PLACE CONCRETE SHALL BE 4,000 PSI @ 28 DAY. ALL PRECAST CONCRETE SHALL MEET STATE REQUIREMENTS WITH 6% +/- 2% AIR VOID CONTENT IN THE CURED CONCRETE.
3. ALL STORM SEWER GRATES TO HAVE NOTATION: 'DUMP NO WASTE, DRAINS TO WATERWAY'. CONTRACTOR TO VERIFY WITH LOCAL JURISDICTION EXACT WORDING.



B2 CATCH BASIN
N.T.S.



TOP VIEW



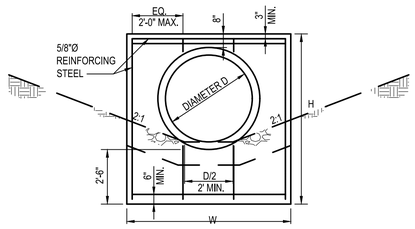
SECTION

G.T. SIZE	DIM. "A"	DIM. "B"
500 GALLON	6'-2"	4'-2"
750 GALLON	8'-1"	4'-0"
1000 GALLON	8'-2"	5'-1"
1250 GALLON	8'-6"	5'-9"
1500 GALLON	"	"

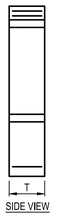
* PER MANUFACTURER SPECIFICATIONS.

GC SHALL INSTALL GREASE INTERCEPTOR, (G.I.) AS APPROVED BY LOCAL WASTEWATER JURISDICTION INSTALLATION SHALL INCLUDE VENT, SAMPLING PORT/ MANHOLE, REINF. CONCRETE TRAFFIC LID, ETC. AS REQUIRED PER WASTEWATER DEPARTMENT STANDARDS. G.I. SHALL BE DESIGNED FOR H20 VEHICLE LOADS.

C5 EXTERIOR GREASE INTERCEPTOR
N.T.S.

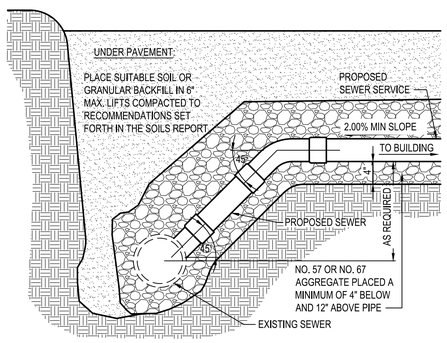


CONCRETE HEADWALL DIMENSIONS			
CIRCULAR			
D	W	H	T
8"	3'-0"	4'-5"	12"
12"	10'-0"	4'-5"	12"
15"	4'-0"	4'-8"	12"
18"	5'-0"	5'-0"	12"



SIDE VIEW

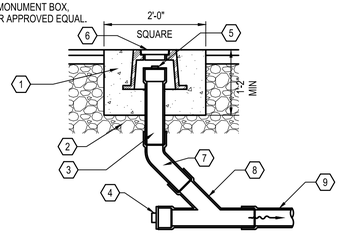
A1 HEADWALL
N.T.S.



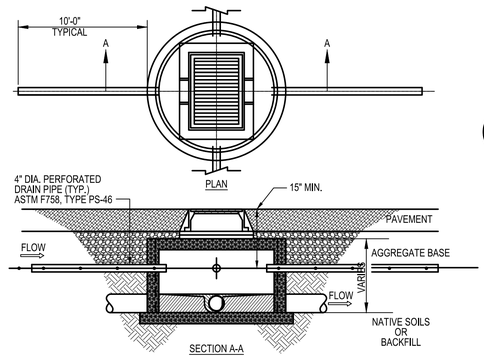
A2 SEWER RISER (TAP)
N.T.S.

KEYED NOTES

1. CONCRETE, MATCH PAVEMENT SPEC.
2. 6" (MIN.) AGGREGATE BASE
3. 6" DIA. CLEAN-OUT PIPE
4. CAP AND SEAL CONDUIT
5. THREADED CLEAN-OUT CAP
6. CAST-IRON MONUMENT BOX, EJIW 1565 OR APPROVED EQUAL
7. 45° BEND
8. WYE
9. SEWER



A3 STORM CLEAN OUT (PAVEMENT AREA)
N.T.S.



A4 FINGER DRAIN DETAIL
N.T.S.

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED PLANNING AND DEVELOPMENT DEPARTMENT DATE:

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
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2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
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PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

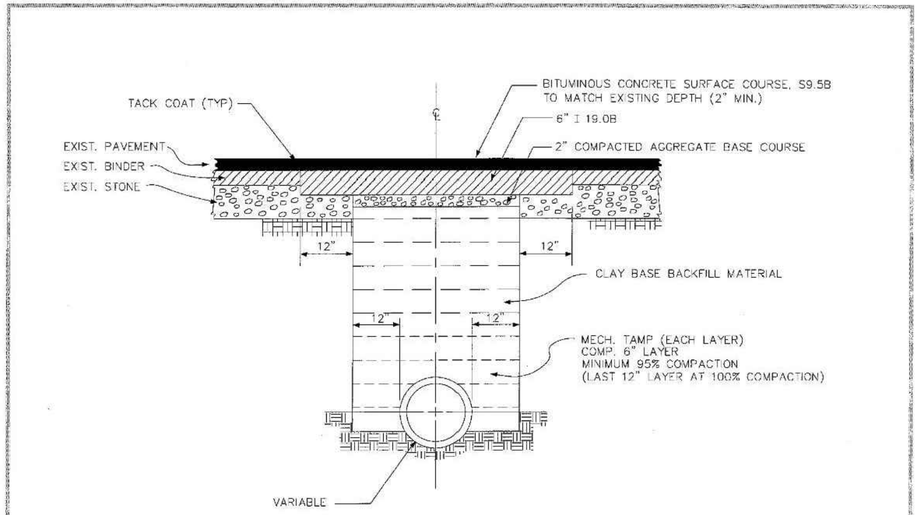
TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
DETAILS

C-503

PLOT DATE:



NOTES
1. ALL CONCRETE AND ASPHALT PAVEMENT TO BE SAWCUT.

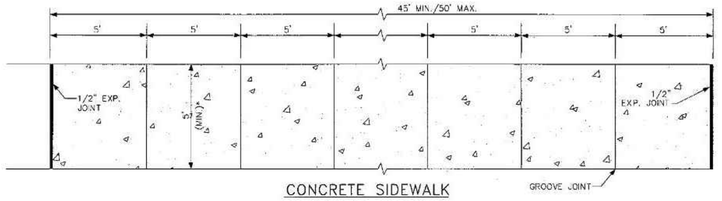
2. WHEN PAVEMENT REPAIRS ADJACENT TO THE CURB, THE SAW CUT MUST BE 2' FROM THE LIP OF CURB.

DATE: SEPT. 2006 SCALE: NTS
REVISIONS
REV. #1 APRIL 28, 2014

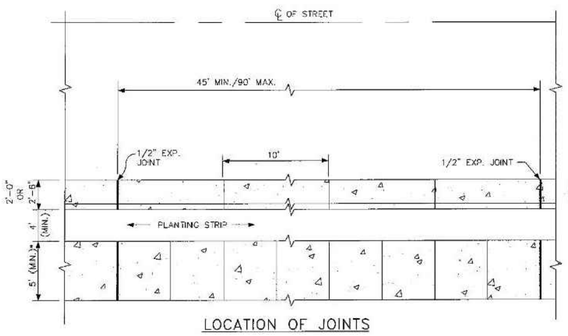
PAVEMENT REPAIR FOR UTILITIES CUT (THOROUGHFARES OR INDUSTRIAL)

CITY PUBLIC WORKS STANDARD DETAILS
MOUNT HOLLY, N.C.

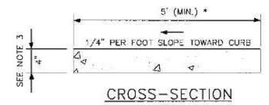
ROADWAY	STD. NO.
R	124



CONCRETE SIDEWALK



LOCATION OF JOINTS



CROSS-SECTION

* WIDTH OF SIDEWALK ON DESIGNATED BUSINESS CORRIDORS SHALL BE A MINIMUM OF 8'. LOCATION AND PLANTING STRIP WIDTH DETERMINED BY PLANNING DIRECTOR.

NOTES:

1. WHEN FRONT EDGE OF WALK IS POURED ADJACENT TO CURB A 1/2" EXPANSION JOINT SHALL BE PLACED BETWEEN NEW WALK AND EXISTING STRUCTURES

2. WHEN BACK OF WALK IS POURED ADJACENT TO A BUILDING OR EXISTING CONCRETE A 1/2" EXPANSION JOINT SHALL BE PLACED BETWEEN NEW WALK AND EXISTING STRUCTURES.

3. WHERE A DRIVEWAY CROSSES A WALK, THE SIDEWALK SHALL HAVE A DEPTH OF 6" WITH 1/2" EXPANSION JOINT EACH SIDE OF WALK.

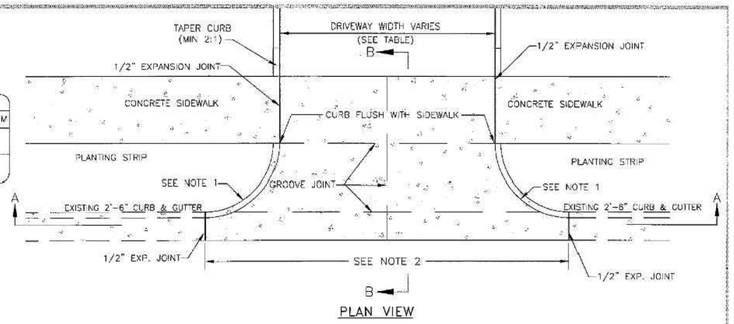
4. SEE STD. NO. R-115 FOR EXPANSION JOINT AND GROOVE JOINT DETAIL

DATE: SEPT. 2006 SCALE: NTS
REVISIONS
REV. #1 APRIL 28, 2014

CONCRETE SIDEWALK

CITY PUBLIC WORKS STANDARD DETAILS
MOUNT HOLLY, N.C.

ROADWAY	STD. NO.
R	114



PLAN VIEW

CLASSIFICATION		
TYPE DRIVEWAY	MINIMUM	MAXIMUM
ONE-WAY COMMERCIAL	20'	30'
TWO-WAY COMMERCIAL	26'	50'**

** NEED MORE THAN ONE CONTRACTION JOINT IN CENTER

NOTES:

1. RADIUS SHALL BE A MINIMUM OF 6 FEET. RADIUS GREATER THAN 6 FEET MAY BE REQUIRED BY THE CITY OF MOUNT HOLLY. FOR RADIUS GREATER THAN 6 FEET, THE RADIUS SHALL CONTINUE AS A HAND AT GRADE THROUGH SIDEWALK.

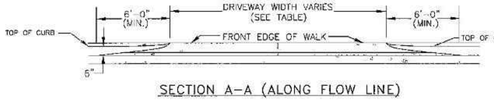
2. ALL DRIVEWAYS MUST MEET THE CURRENT CITY DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

3. ALL CONCRETE SHALL BE 3500 P.S.I. COMPRESSIVE STRENGTH

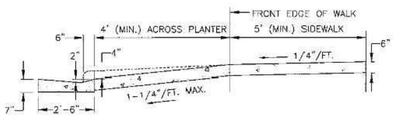
4. ALL CURB, CURB AND GUTTER, AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED. SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT.

5. SEE STD. NO. R-115 FOR EXPANSION JOINT AND GROOVE JOINT.

6. SIDEWALK AT DRIVEWAY ENTRANCE MUST BE 6" THICK.



SECTION A-A (ALONG FLOW LINE)



SECTION B-B

DATE: SEPT. 2006 SCALE: NTS
REVISIONS
REV. #1 APRIL 28, 2014

COMMERCIAL DRIVEWAY WITH RADIUS AND PLANTING STRIP

CITY PUBLIC WORKS STANDARD DETAILS
MOUNT HOLLY, N.C.

ROADWAY	STD. NO.
R	121

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED
	PLANNING AND DEVELOPMENT DEPARTMENT
	DATE:

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

TACO BELL

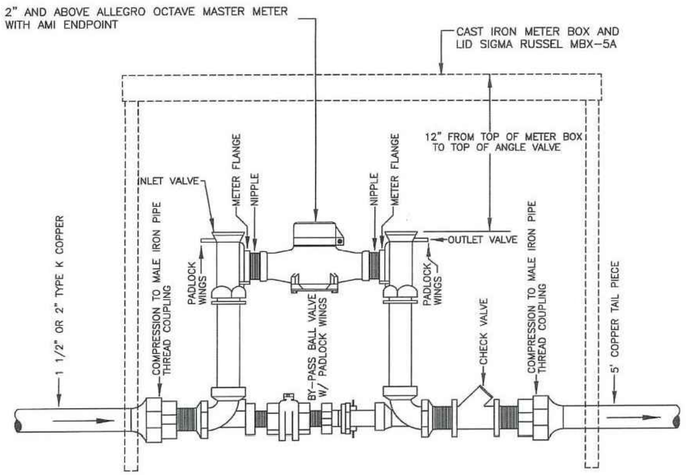
ENDEAVOR 2.0
CITY OF MOUNT HOLLY DETAILS

C-504

PLOT DATE:

TEMPORARY CONSTRUCTION SPOOL SHALL BE INSTALLED BY THE CONTRACTOR. SPOOL TO BE INSTALLED WITH GASKETS AND BOLTS, AND TESTED TO THE INLET VALVE.

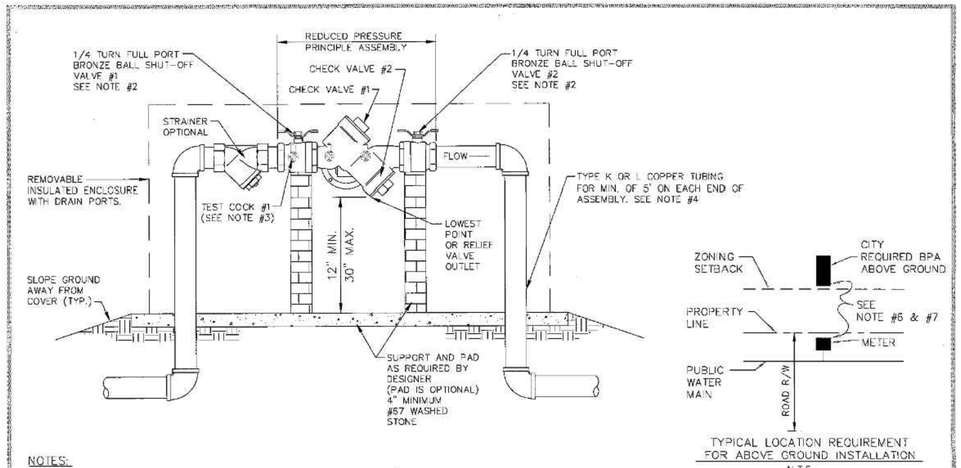
BY-PASS VALVE AND OUTLET VALVE SHALL BE PADLOCKED BY THE INSPECTOR. SPOOL AND PADLOCKS SHALL REMAIN INTACT UNTIL A PERMANENT METER IS INSTALLED. CITY TO PROVIDE PADLOCKS.



NOTES:

1. INLET AND OUTLET VALVES SHALL HAVE METER SUPPORT BRACKETS.
2. SETTER TO BE 2" CUSTOM-SETTER WITH BY-PASS AND BALL VALVE ON INLET AND OUTLET. MUELLER B-2423
3. TAPPING SADDLE SHALL BE SMITH-BLAIR 313. CORPORATION VALVE SHALL BE MUELLER B-25008.
3. CHECK VALVE IS NOT REQUIRED IF BACKFLOW PREVENTION IS REQUIRED.
4. CHECK VALVE SHALL BE INSIDE METER BOX.
5. TAPS MUST BE MADE ON MAINS THAT HAVE BEEN TESTED, CHLORINATED, AND FLUSHED.

DATE: SEPT. 2006	SCALE: NTS		
REVISIONS		2" CONNECTION	CITY PUBLIC WORKS STANDARD DETAILS MOUNT HOLLY, N.C.
REV. #1	APRIL, 28, 2014		WATER W / STD. NO. 307
REV. #2	MAY 1, 2018		
REV. #3	SEPTEMBER 27, 2021		



TYPICAL LOCATION REQUIREMENT FOR ABOVE GROUND INSTALLATION
N.T.S.

NOTES:

1. REDUCED PRESSURE PRINCIPLE ASSEMBLIES (RP) TO BE APPROVED BY THE CITY AND ENGINEER OF RECORD.
2. CITY APPROVED RP INCLUDES SHUT-OFF VALVES #1 AND #2 AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. TEST COCK #1 SHALL BE UPSTREAM OF SHUT-OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
4. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN CITY STANDARDS & SPECIFICATIONS.
5. INSULATED ENCLOSURE MUST PROVIDE AT LEAST R6.5 INSULATION.
6. ALL LOCATIONS FOR BPA'S REQUIRE CITY APPROVAL.
7. NO TAPS, BRANCHES, FH'S OR OTHER ACCESSORIES ARE PERMITTED ON THE PIPING BETWEEN THE BPA & METER.
8. PVC IS NOT PERMITTED WITHOUT APPROVAL FROM THE CITY
9. DIALECTRIC UNION TO BE INSTALLED IF DISSIMILAR METALS ARE USED
10. BACKFLOW INSULATION BAGS OR APPROVED EQUAL BY THE CITY

DATE: SEPT. 2006	SCALE: NTS		
REVISIONS		BACKFLOW PREVENTION REDUCED PRESSURE PRINCIPLE ASSEMBLY 3/4"-2"	CITY PUBLIC WORKS STANDARD DETAILS MOUNT HOLLY, N.C.
REV. #1	APRIL, 28, 2014		WATER W / STD. NO. 317

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED PLANNING AND DEVELOPMENT DEPARTMENT DATE:

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Mount Holly, NC 28120

ENDEAVOR 2.0
CITY OF MOUNT HOLLY DETAILS

C-505

PLOT DATE:

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

LANDSCAPE NOTES & PLANTING SPECIFICATIONS

SCOPE OF WORK

1. THIS WORK SHALL CONSIST OF PERFORMING CLEARING AND GRUBBING, SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.

2. QUANTITY TAKEOFF IS SUPPLIED FOR CONTRACTOR'S ASSISTANCE ONLY. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL PLANT MATERIALS AS PER PLAN.

3. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR WITHIN EASEMENT OR RIGHT-OF-WAY LIMITS.

PRESERVATION/PROTECTION (IF APPLICABLE)

1. CONTRACTOR SHALL MAINTAIN AND PRESERVE TREES AND SHRUBS NOT BEING REMOVED, INCLUDING THEIR ROOTS. TREE PROTECTION FENCING SHALL BE USED AT THE DRIP LINE OF ALL TREES AND SHRUBS WITHIN 50 FEET OF CONSTRUCTION EXCEPT AS SHOWN ON PLAN. FENCING SHALL REMAIN IN PLACE UNTIL FINAL PLANT INSPECTION FOLLOWING CONSTRUCTION. MATERIALS SHALL NOT BE STOCKPILED WITHIN THIS DEFINED AREA AND VEHICLES AND OTHER EQUIPMENT SHALL BE OPERATED TO AVOID SOIL COMPACTION.

2. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA EQUAL TO TWICE THE TREE CIRCUMFERENCE (MEASURED 6" ABOVE THE GROUND LINE IN INCHES) EXPRESSED IN FEET. (EXAMPLE: A CIRCUMFERENCE OF 10" WOULD HAVE A 'NO CUT' ZONE OF 20 FEET IN ALL DIRECTIONS FROM THE TREE). THIS SHOULD APPLY TO UTILITY SERVICES, IF FEASIBLE. THE ONLY EXCEPTION TO THIS REQUIREMENT WILL BE THOSE SPECIFICALLY ALLOWED BY THE LANDSCAPE ARCHITECT, SPECIFICATIONS OR AS INDICATION ON THE PLANS.

3. TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING EQUIPMENT OPERATIONS SHALL BE TREATED IN ACCORDANCE WITH THE ARBOR CULTURAL STANDARDS OF THE CITY.

PLANT MATERIALS

1. GENERAL - ALL MATERIALS SHALL BE OF ITS KIND AVAILABLE AND SHALL HAVE BEEN GROWN IN A CLIMATE SIMILAR TO THAT ON SITE.

2. PLANTS - ALL PLANTS SHALL BE HEALTHY, OF NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS. QUALITY AND SIZE OF PLANT MATERIAL SHALL CONFORM TO ANSI Z60.1 "AMERICAN STANDARDS FOR NURSERY STOCK".

3. VARIETIES AND SIZES OF PLANTS SHALL BE AS SHOWN ON DRAWINGS.

4. PLANTS SHALL BE IN A HEALTHY, VIGOROUS CONDITION, FREE OF DEAD OR BROKEN BRANCHES, SCARS THAT ARE NOT COMPLETELY HEALED, FROST CRACKS, DISFIGURING KNOTS, BROKEN OR ABRADED BARK, REDUNDANT LEADERS OR BRANCHES, OR ABERRATIONS OF ANY KIND. PLANTS SHALL NOT HAVE MULTIPLE LEADERS, UNLESS THIS IS THE NATURAL FORM.

5. BALLED AND BURLAPPED (B&B) PLANTS SHALL BE DUG WITH A FIRM ROOT BALL OF NATURAL EARTH, OF A SIZE IN PROPORTION TO THE PLANT'S SIZE, AS MEASURED BY CALIPER, HEIGHT, OR SPREAD. BALLED AND BURLAPPED PLANTS SHALL BE HANDLED ONLY BY THE ROOT BALL, NOT BY THE TRUNK OR BRANCHES, AS THIS MAY BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM. CONTAINER PLANTS SHALL HAVE BEEN ESTABLISHED FOR A MINIMUM OF ONE FULL GROWING SEASON IN THEIR CONTAINERS BEFORE INSTALLATION. CONTAINER PLANTS SHALL BE HANDLED ONLY BY THE CONTAINER, NOT BY THE STEMS OR BRANCHES, AS THIS MAY PULL THE PLANT OUT OF THE CONTAINER AND BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM.

6. PLANTS SHALL BE PROTECTED FROM DRYING OUT DURING SHIPPING WITH TARPAULINS OR OTHER COVERINGS. PLANTS SHALL BE PROTECTED FROM DRYING OUT AFTER DELIVERY BY PLANTING IMMEDIATELY; IF THIS IS NOT POSSIBLE, THE ROOT BALL SHALL BE COVERED WITH PEAT MOSS OR EARTH, AND WATERED FREQUENTLY TO KEEP IT MOIST UNTIL PLANTING.

7. DO NOT HANDLE, MOVE, BIND, TIE OR OTHERWISE TREAT PLANTS SO AS TO DAMAGE THE ROOT BALL, ROOTS, TRUNK, OR BRANCHES IN ANY WAY.

TOPSOIL

1. TOPSOIL HAS BEEN (OR WILL BE) STOCKPILED FOR REUSE IN LANDSCAPE WORK. IF QUANTITY OF STOCKPILED TOPSOIL IS INSUFFICIENT, PROVIDE ADDITIONAL TOPSOIL AS REQUIRED TO COMPLETE LANDSCAPE WORK. IMPORTED TOPSOIL SHALL CONSIST OF LOOSE, FRIABLE, LOAMY TOPSOIL WITHOUT ADMIXTURE OF SUBSOIL OR REFUSE. ACCEPTABLE TOPSOIL SHALL CONTAIN NOT LESS THAN 3 PERCENT NOR MORE THAN 20 PERCENT ORGANIC MATTER.

2. PLANTING BACKFILL FOR PARKING LOT ISLANDS SHALL CONSIST OF A HOMOGENEOUS MIXTURE OF 3 PARTS TOPSOIL TO ONE PART SPHAGNUM PEAT INSTALLED OVER A 6" THICKNESS OF NO. 57 AGGREGATE.

SOIL CONDITIONING

1. OBTAIN LABORATORY ANALYSIS OF STOCKPILED AND IMPORTED TOPSOIL COMPLETE WITH RECOMMENDATIONS FOR SOIL AMENDMENT.

2. BEFORE MIXING, CLEAN TOPSOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH.

3. MIX SPECIFIED SOIL AMENDMENTS AND FERTILIZERS WITH TOPSOIL AT RATES SPECIFIED BY THE LAB REPORT. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW PLACING OF PLANTING SOIL WITHIN A FEW DAYS.

4. FOR PLANTING BEDS AND LAWNS, MIX PLANTING SOIL EITHER PRIOR TO PLANTING OR APPLY ON SURFACE OF TOPSOIL AND MIX THOROUGHLY BEFORE PLANTING. MIX LIME WITH DRY SOIL PRIOR TO MIXING OF FERTILIZER.

5. PREVENT LIME FROM CONTACTING ROOTS OF ACID-LOVING PLANTS.

6. APPLY PHOSPHORIC ACID FERTILIZER (OTHER THAN THAT CONSTITUTING A PORTION OF COMPLETE FERTILIZERS) DIRECTLY TO SUBGRADE BEFORE APPLYING PLANTING SOIL AND TILLING.

OTHER MATERIALS

1. BED EDGING - TRENCH AROUND LANDSCAPE BEDS TO CREATE SHARP, 45 DEGREE EDGE. TYPICAL AT ALL PLANTING BED EDGES WHERE THEY MEET LAWNS.

2. MULCH: ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS AND SUITABLE FOR TOP DRESSING OF TREES, SHRUBS, OR PLANTS AND CONSISTING OF THE FOLLOWING:

   * SHREDDED HARDWOOD BARK MULCH (ALL AREAS NOT BEING SEEDED) NOT LESS THAN 6 MO. AGED, TO BE CERTIFIED BY SUPPLIERS.

3. WEED BARRIER - POLYETHYLENE FILTER FABRIC DESIGNED TO PERMIT WATER INFILTRATION WHILE PREVENTING WEED GROWTH-TO BE INSTALLED IN ALL PLANTING BEDS.

GENERAL WORK PROCEDURES

1. LANDSCAPE WORK SHALL BE ACCORDING TO THE WORKMANLIKE STANDARDS ESTABLISHED FOR LANDSCAPE CONSTRUCTION AND PLANTING IN THE NORTH CAROLINA STANDARDIZED LANDSCAPE SPECIFICATIONS (ASLA) AND ANY LOCAL LANDSCAPE ORDINANCES.

2. CONTRACTOR SHALL OBTAIN A COPY OF LOCAL ORDINANCES REGARDING ACCEPTABLE PLANT AND PLANTING DETAILS AND ABIDE BY THOSE ORDINANCES AND DETAILS.

3. ENGINEER RESERVES THE RIGHT TO REJECT ALL PLANT MATERIAL DEEMED NOT ACCEPTABLE.

4. ANY PROPOSED PLANT SUBSTITUTIONS SHALL BE EQUIVALENT IN FORM, HABIT, STRUCTURE, BRANCHING AND LEAF TYPE AND MUST BE ISSUED TO THE LANDSCAPE ARCHITECT FOR APPROVAL, IN WRITING, PRIOR TO INSTALLATION.

WEEDING

1. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

PLANTING

1. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE OWNER BEFORE EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.

2. PLANTING PITS SHALL BE AS PER DETAILS.

3. PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT. FILL PREPARED SOIL AROUND BALL OF PLANT. COMPLETE BACKFILLING AND WATER THOROUGHLY.

4. PREPARE RAISED EARTH BASIN AS WIDE AS PLANTING HOLE OF EACH PLANT.

5. WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.

6. INSTALL BED EDGING AND MULCH.

7. REMOVE ALL SALES TAGS, STRINGS, STRAPS, WIRE, ROPE OR OTHER MATERIALS THAT MAY INHIBIT PLANT GROWTH BOTH ABOVE AND BELOW THE SURFACE OF THE SOIL.

8. REMOVE ANY BROKEN, SUCKERING, DISEASED, CRISSCROSSED OR AESTHETICALLY DISPLEASING BRANCHES BACK TO LIVE LEADER OR SIDE LATERAL WITH A FLUSH CUT.

9. MULCH TREES AND SHRUBS AND OTHER AREAS NOTED ON THE PLANTING PLAN WITH A 3" LAYER OF MULCH AS SPECIFIED IN NOTE 2 OF "OTHER MATERIALS".

FINISH GRADING

1. ALL AREAS WILL BE GRADED BY THE CONTRACTOR TO SUBSTANTIALLY PLUS/MINUS 0.1 FOOT OF FINISH GRADE.

2. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN, UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.

4. PARKING LOT ISLAND SHALL BE BACKFILLED AS PART OF THIS CONTRACT.

GROUND COVER

1. SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.

2. MULCH GROUND COVER WITH 2" THICKNESS OF SPHAGNUM PEAT.

3. IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.

4. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION.

GUARANTEE

1. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.

IRRIGATION

1. CONTRACTOR SHALL PROVIDE & INSTALL AN IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF THE SITE. AREAS WITHIN 5 FEET OF BUILDING WALLS SHALL BE IRRIGATED BY DRIP IRRIGATION OR SIMILAR. CONTRACTOR SHALL ENSURE BUILDING WALLS AND WINDOWS WILL NOT BE DAMAGED OR STAINED BY IMPROPER IRRIGATION INSTALLATION OR POOR SELECTION OF FIXTURES. SYSTEM SHALL INCLUDE ALL APPURTENANCES & BE APPROVED BY OWNER.

2. IRRIGATION CONTRACTOR SHALL PROVIDE A METHOD FOR WINTERIZATION. WINTERIZATION SHALL BE PERFORMED BY CONTRACTOR UPON COMPLETION IF SYSTEM IS INSTALLED BETWEEN NOVEMBER 1 AND MARCH 31.

CLEANUP

1. UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. AN 'ACCEPTABLE CONDITION' SHALL BE AS DEFINED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

MAINTENANCE

(MAINTENANCE PERIOD TO COMMENCE AFTER FINAL INSPECTION.)

1. MAINTENANCE PERIOD FOR THIS CONTRACT SHALL BE 90 CALENDAR DAYS COMMENCING AFTER FINAL INSPECTION OF CONSTRUCTION.

2. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED.

3. MAINTAIN LAWNS BY WATERING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

4. MAINTAIN THE LANDSCAPING BY KEEPING ALL PLANTS DISEASE-FREE AND PLANTING BEDS GROOMED, EXCEPT IN NATURALLY OCCURRING VEGETATION AREAS.

5. REPLACE ANY REQUIRED PLANTING(S), WHICH SEVERELY DECLINE OR DIE AFTER THE DATE OF PLANTING. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT APPROPRIATE PLANTING SEASON.

SEEDING

1. GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS' "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.

2. ALL AREAS TO BE SEEDED SHALL RECEIVE NO LESS THAN FIVE POUNDS OF SEED PER ONE THOUSAND SQUARE FEET. APPLY SEED AND PROTECT WITH STRAW MULCH AS REQUIRED FOR NEW LAWNS. GRASS SEED MIX SHALL CONSIST OF THE FOLLOWING:

PROPORTION	NAME	MIN.% GERM.	MIN.% PURE SEED	MAX.% WEED SEED
30%	KENTUCKY BLUEGRASS (POA PRATENSIS)	80	85	0.50
30%	CREEPING RED FESCUE (FESTUCA RUBRA)	85	98	0.50
20%	PERENNIAL RYE GRASS (LOLIUM PERENNE)	90	98	0.50
20%	ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	85	92	1.00

SODDING

1. SOD SHALL BE FIRST GRADE CERTIFIED KENTUCKY BLUEGRASS BLEND CONTAINING NOT MORE THAN 30 PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS. SOD SHALL BE RECENTLY MOWED TO A HEIGHT OF NOT LESS THAN 3 INCHES. IT SHALL BE CUT INTO STRIPS OF NOT LESS THAN 3 FEET AND NOT OVER 6 FT. WITH A UNIFORM WIDTH OF NOT OVER 24 INCHES. THE SOD SHALL BE CUT TO A DEPTH EQUAL TO THE GROWTH OF THE FIBROUS ROOTS BUT IN NO CASE LESS THAN 1 INCH. SOD SHALL BE DELIVERED TO THE JOB WITHIN 24 HOURS AFTER BEING CUT AND SHALL BE INSTALLED WITHIN 48 HOURS AFTER BEING CUT. BEFORE SOD IS PLACED, THE SOD BED WILL HAVE BEEN EXCAVATED TO SUCH A DEPTH THAT WHEN THE SOD IS IN PLACE THE TOP OF THE SOD WILL BE FLUSH WITH THE SURROUNDING GRADE. NO SOD SHALL BE PLACED WHEN THE TEMPERATURE IS BELOW 32 DEGREES F. NO FROZEN SOD SHALL BE PLACED NOR SHALL ANY SOD BE PLACED ON FROZEN SOIL. AFTER LAYING, THE SOD SHALL BE WATERED THOROUGHLY AND TAMPED WITH APPROVED SOD TAMPERS SUFFICIENTLY TO BRING THE SOD INTO CLOSE CONTACT WITH THE SOD BED AND ENSURE TIGHT JOINTS BETWEEN THE SECTIONS OR STRIPS. SOD INSTALLATION SHALL BE IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS FORM THE SOURCE SUPPLIER. THE CONTRACTOR SHALL KEEP ALL SODDED AREAS INCLUDING SUBGRADE, THOROUGHLY MOIST FOR 30 DAYS AFTER SODDING. THE CONTRACTOR SHALL REPAIR ANY AREAS DAMAGED FOLLOWING INSTALLATION AS DIRECTED BY THE CONSTRUCTION MANAGER SOD SHALL BE IN PLACE AT LEAST 30 DAYS BEFORE FINAL ACCEPTANCE.

PLANTING SCHEDULE

1. ALL PLANTING IS RECOMMENDED TO BE DONE WITHIN THE FOLLOWING DATES. WHEN PLANTING OUTSIDE THESE DATES, WRITTEN DOCUMENTATION SHALL BE PROVIDED THAT SURVIVAL OR REPLACEMENT WILL BE ENSURED. NO PLANTING SHALL BE DONE IN FROZEN SOIL.

NORMAL PLANTING SEASONS	SPRING	FALL
ALL TREES AND SHRUBS	MARCH 15-MAY 15	OCTOBER 1-DECEMBER 1
EVERGREENS	APRIL 1-MAY 15	OCTOBER 1-NOVEMBER 15
GROUNDCOVERS	APRIL 1-JUNE1	WHEN SOD IS WORKABLE
SEED AND MULCH	APRIL 1-MAY 15	OCTOBER 1-NOVEMBER 15

GENERAL NOTE

1. ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE WITHIN THE RIGHT-OF-WAY SHALL BE FINE GRADED TO MAINTAIN POSITIVE DRAINAGE, HAVE A 4" LAYER OF TOPSOIL APPLIED AND BE SEEDED ACCORDING TO SPECIFICATIONS ON THIS SHEET.

CONSTRUCTION PLAN (MAJOR AND MINOR)	CONSTRUCTION PLAN APPROVED PLANNING AND DEVELOPMENT DEPARTMENT DATE:

CITY OF MOUNT HOLLY, NORTH CAROLINA
PLAN APPROVAL FOR ROADWAY, DRAINAGE, WATER AND SEWER

AUTHORIZED OFFICIAL DATE

GPD Engineering and Architecture
Professional Corporation - C3879

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
1	03/17/2022	ISSUED FOR RSCS BID
2	04/01/2022	ISSUED FOR BID

CONTRACT DATE:	04.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JN
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

LANDSCAPE NOTES

L-001

PLOT DATE:

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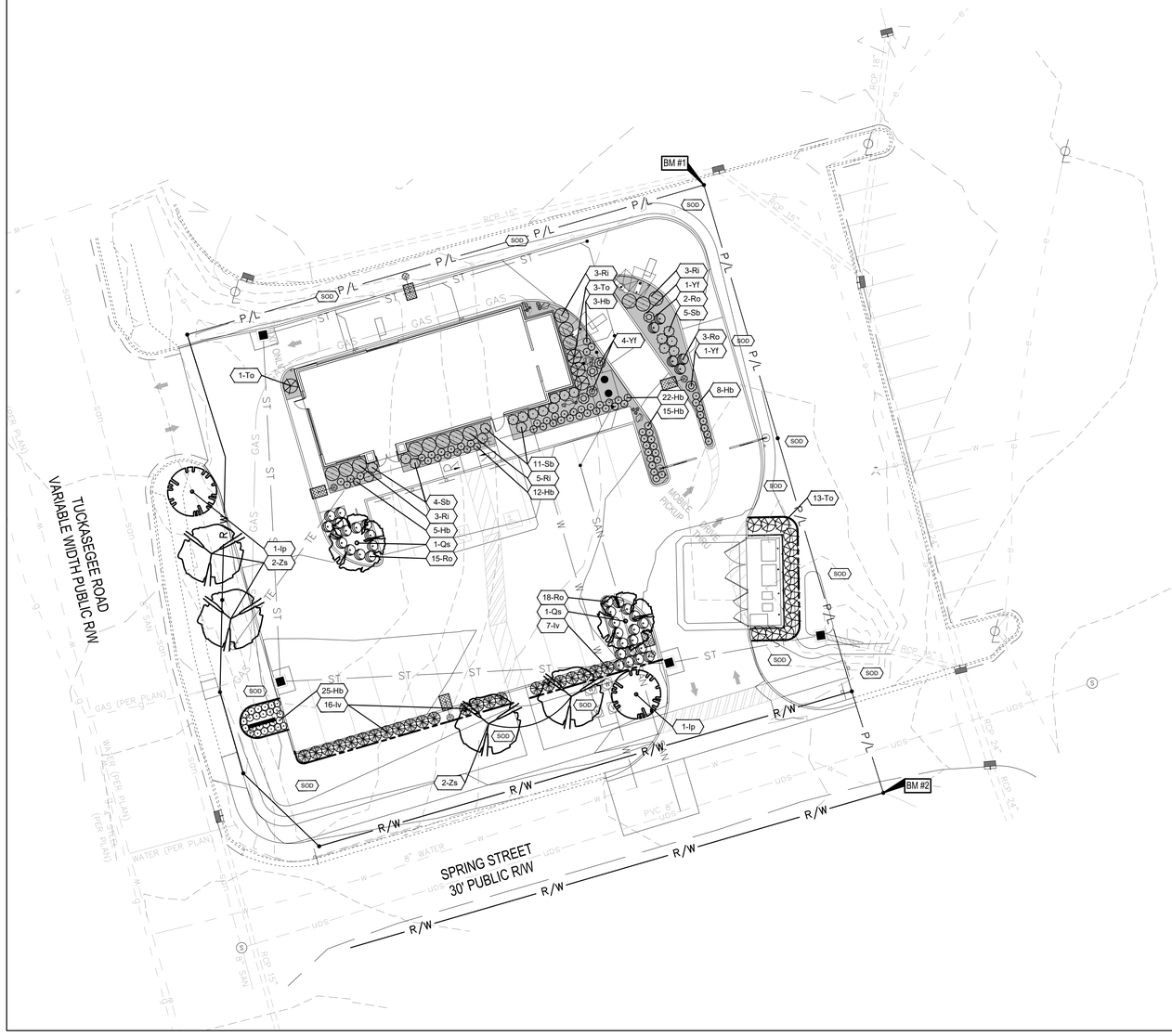
PLANT LIST

Symbol	Botanical Name	Common Name	Qty.	Min. Size	Condition	Remarks
Ip	Ilex vomitoria 'Pride of Houston'	Pride of Houston Yaupon Holly	2	1.5" Cal.	B&B	Single Stem
Hb	Hemerocallis 'Going Bananas'	Going Bananas Daylily	90	No. 2	Cont.	2' o/c
Iv	Ilex vomitoria 'Nana' Dwarf Yaupon Holly	Nana Dwarf Yaupon Holly	23	No. 4	Cont.	3.5' o/c
Qs	Quercus shumardii	Shummard Oak	2	2.5" Cal.	B&B	Specimen
Ri	Rhaphiolepis indica 'Georgia Petite'	Georgia Petite Indian Hawthorn	14	No.4	Cont.	4' o/c
Ro	Rosmarinus officinalis 'Prostratus'	Prostratus Rosemary	38	No. 3	Cont.	3' o/c
Sb	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	20	No. 3	Cont.	3' o/c
To	Thuja occidentalis 'Emerald'	Emerald Arborvitae	17	6' H	B&B	4' o/c
Yf	Yucca filamentosa 'Color Guard'	Color Guard Yucca	6	No. 5	Cont.	Per Plan
Zs	Zelkova serrata 'Green Vase'	Green Vase Japanese Zelkova	4	2" Cal.	B&B	Specimen



N

0 20 10 40

1"=20'

Horizontal Scale in Feet

GENERAL SHEET NOTES

1. MULCH PER LANDSCAPE SPECIFICATIONS.
2. ALL DISTURBED AREAS NOT TO BE PAVED OR MULCHED SHALL BE SODDED PER SPECIFICATIONS.
3. ALL DISTURBED AREAS WITHIN THE R.O.W. NOT TO BE PAVED, SHALL BE SEEDED PER THE SPECIFICATIONS.

LANDSCAPE LEGEND

- PROPOSED LANDSCAPE BED EDGE
- PROPOSED TREE
- PROPOSED SHRUB / PERENNIAL
- PROPOSED LIMESTONE BOULDER, DESERT SAND, 12"-36"
- ##-Xx — PROPOSED PLANT QUANTITY AND SYMBOL
- SOD — PROPOSED LAWN AREA
- PROPOSED RIVER ROCK MULCH AREA
- PROPOSED SIDEWALK EASEMENT

PARKING LANDSCAPE AREA CALCULATIONS

10.5.2 BUFFER YARD COMPOSITION STANDARDS (100X10 FT.) - TYPE A	
REQUIRED:	PROVIDED:
CANOPY TREES: 2	CANOPY TREES: 4
UNDERSTORY TREES: 2	UNDERSTORY TREES: 2
SHRUBS: 15	SHRUBS: 75

10.5.3 (H) OTHER BUFFER YARD STANDARDS	
REQUIRED:	PROVIDED:
SHRUBS: EVERGREEN 50%	SHRUBS: EVERGREEN 65%

10.5.3 (I) OTHER BUFFER YARD STANDARDS	
REQUIRED PARKING LANDSCAPE:	PROVIDED:
CANOPY TREES: 1	CANOPY TREES: 2

BENCHMARKS:
GPS VRS SURVEY ON THREE CONTROL POINTS NAD 83 2011 HARN.

TOPOGRAPHIC MAP IS BASED ON VERTICAL DATUM NAVD 88 GEOID 12A.

BENCHMARK #1 - EXISTING TOP OF IRON ROD.
ELEVATION = 669.62

BENCHMARK #2 - EXISTING TOP OF IRON ROD.
ELEVATION = 670.58

North Carolina 811 www.nc811.org

CONSTRUCTION PLAN (MAJOR AND MINOR)

CONSTRUCTION PLAN APPROVED

PLANNING AND DEVELOPMENT DEPARTMENT

DATE: _____

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TACO BELL

ENDEAVOR 2.0
LANDSCAPE PLAN

L-101

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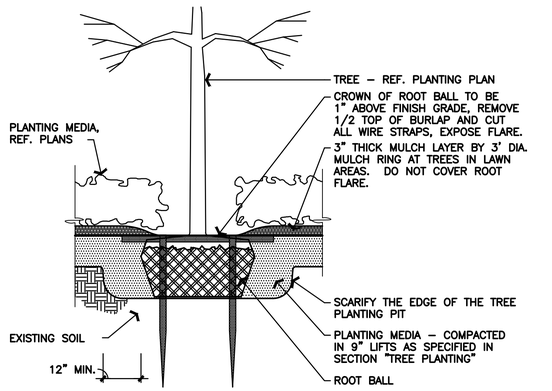
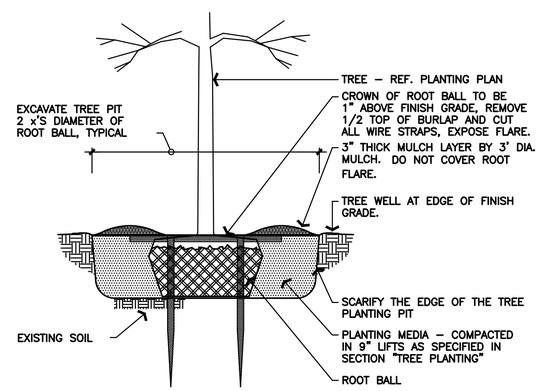


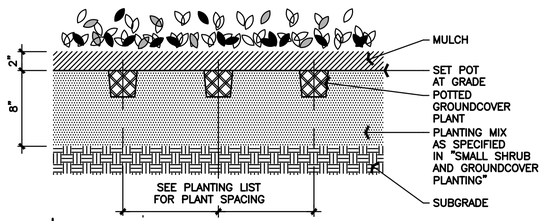
TREE PLANTING IN PLANTER – SECTION

1/2" = 1'–0" 0 2'



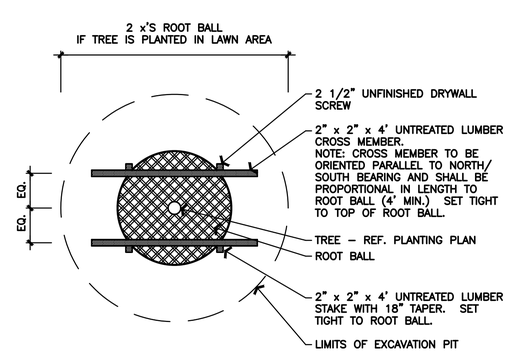
TREE PLANTING IN LAWN – SECTION

1/2" = 1'–0" 0 2'



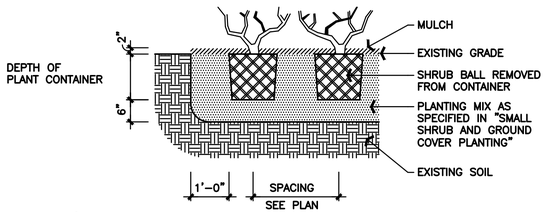
GROUNDCOVER PLANTING – SECTION

1 1/2" = 1'–0" 0 1'



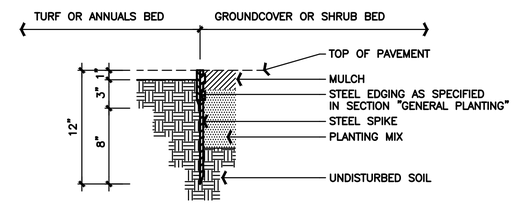
TYPICAL TREE STAKING – PLAN

1/2" = 1'–0" 0 2'



SHRUB PLANTING – SECTION

1/2" = 1'–0" 0 2'



STEEL EDGING – SECTION

1 1/2" = 1'–0" 0 1'

CONSTRUCTION PLAN (MAJOR AND MINOR)

CONSTRUCTION PLAN APPROVED

PLANNING AND DEVELOPMENT DEPARTMENT

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LANDSCAPE DETAILS

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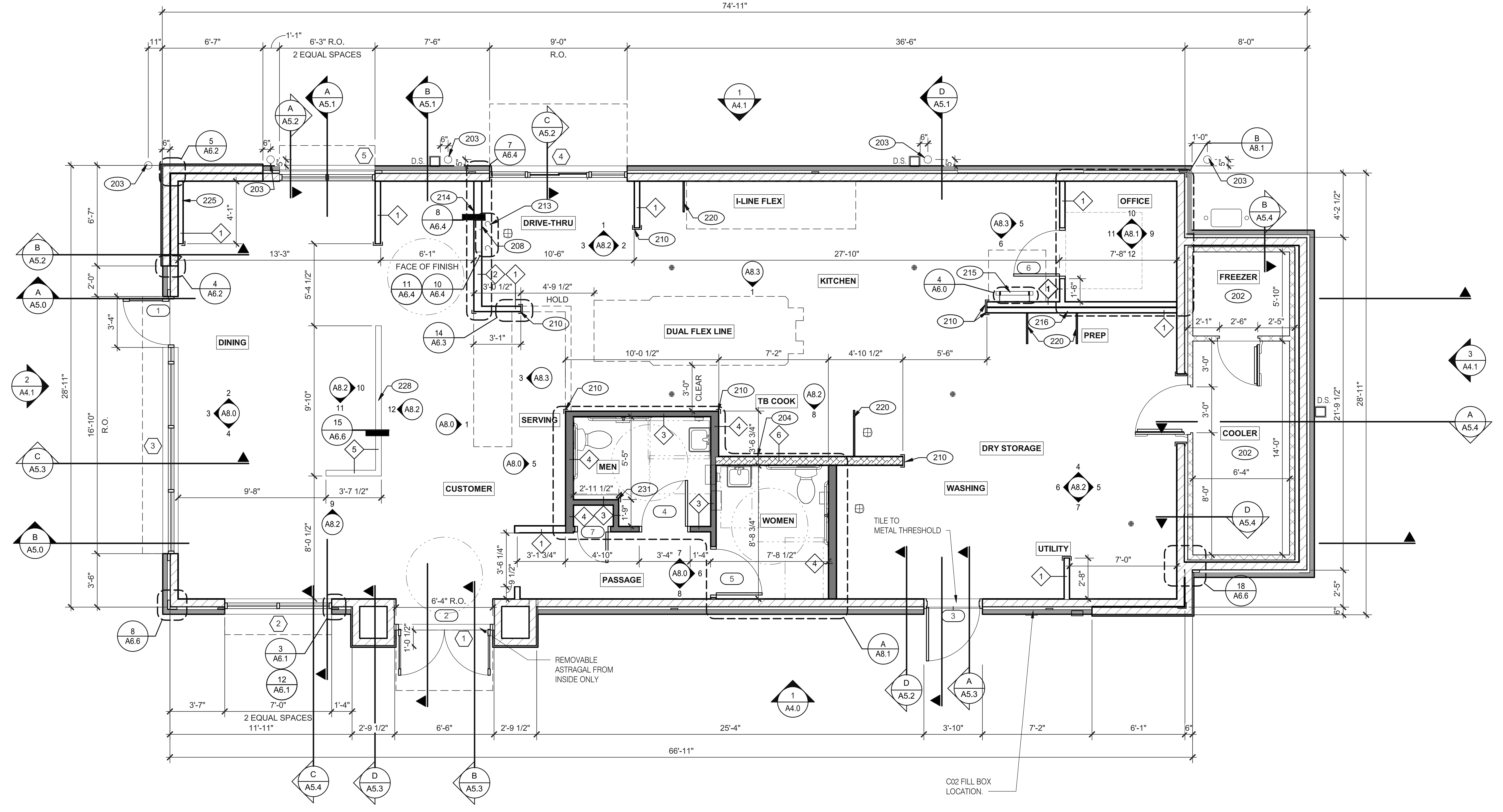

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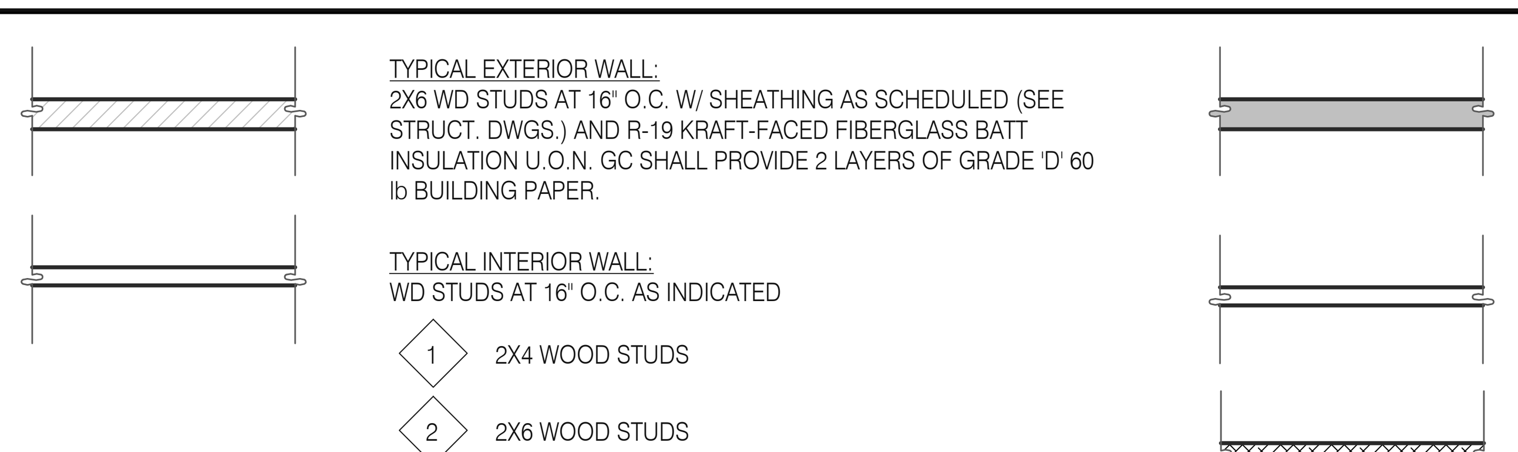
FLOOR PLAN 1/4" = 1'-0" **1**



TYPICAL EXTERIOR WALL:
2X6 WD STUDS AT 16" O.C. W/ SHEATHING AS SCHEDULED (SEE STRUCT. DWGS.) AND R-19 KRAFT-FACED FIBERGLASS BATT INSULATION U.O.N. GC SHALL PROVIDE 2 LAYERS OF GRADE 'D' 60 lb BUILDING PAPER.

TYPICAL INTERIOR WALL:
WD STUDS AT 16" O.C. AS INDICATED
1 2X4 WOOD STUDS
2 2X6 WOOD STUDS

INTERIOR SOUND-RATED WALL:
TYPICAL INTERIOR WALL W/ 3-1/2" UNFACED FIBERGLASS BATT INSULATION.
3 2X4 WOOD STUDS 4 2X6 WOOD STUDS

LOW WALL:
2X4 WD STUDS AT 16" O.C. AS SCHEDULED (SEE DETAIL 15/A6.6)
5 2X4 WOOD STUDS

HOODWALL:
INTERIOR NON-COMBUSTIBLE WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. EXTEND MIN. 18" BEYOND END OF HOOD. M. STUD FRAMING. REFER TO DETAIL 2/M3.0 FOR EXTENT OF S.S. PANEL.
6 6" METAL STUD

DASHED LINE INDICATES INTERIOR SUBSTRATE LOCATION.

WALL HEIGHTS:
ALL INTERIOR NON-BEARING WALLS GO TO BOTTOM OF TRUSS, U.O.N. REFER TO STRUCTURE.

WALL SUBSTRATES:
- DINING ROOM:
1/2" GYPSUM WALLBOARD FROM FLOOR SLAB TO 6" ABOVE CEILING HEIGHT U.O.N. SEE 6 & 8/A6.3 (NOTE: THE CEMENT BOARD SPECIFICATION IS DESIGNED TO ALLOW THE G.C. FLEXIBILITY.)
- KITCHEN WALLS AND DINING ROOM CLOSET:
1/2" CEMENT WALLBOARD FROM T.O. SLAB T.O. 12" A.F.F. AT 12" A.F.F., USE 1/2" CDX PLYWOOD W/FRP SURFACE FINISH TO 6" ABOVE CEILING HEIGHT U.O.N. IF DOUBLE SIDE SHEAR WALL PLYWD IS SPECIFIED THE PLYWOOD SHALL BE CONTINUOUS FROM SILL PLATE TO TOP PLATE. SEE 4/A6.3.
- RESTROOM WALLS:
5/8" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F., WITH 5/8" HI-IMPACT BRAND XP WALLBOARD, TYPE X CORE FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N. NO SUBSTITUTIONS ALLOWED. FINISH AS SCHEDULED.
- ALL OTHER FRAME WALL CONDITIONS:
1/2" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F., WITH 1/2" GYPSUM WALLBOARD FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N. FINISH AS SCHEDULE

WALL LEGEND **E**

DIMENSIONS:
A. ALL DIMENSIONS NOTED ARE TO FACE OF CONCRETE FOUNDATION, FACE OF SHEATHING ON EXTERIOR WALLS, AND FACE OF FINISH ON INTERIOR WALLS U.N.O.
B. DIMENSIONS NOTED AS "CLEAR" OR "HOLD" ARE MIN. REQUIRED. NET CLEARANCE FROM FACE OF WALL / WAINSCOT FINISH. VERIFY FINAL EQUIPMENT SIZES W/ VENDOR PRIOR TO INT. WALL FRAMING.

WINDOWS / DOORS:
A. SEE SHEET A1.1 FOR WINDOW TYPES AND DOOR SCHEDULE.
B. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING.

FINISH SUBSTRATES:
A. PROVIDE 1/2" THICK CEMENTITOUS BD. FROM FLOOR SLAB TO 12" A.F.F. MIN. IN LIEU OF GYP. BD. AT ALL WALLS EXCEPT SHEARWALL SURFACES, U.O.N.
B. ALL JOINTS, GAPS OR SPACES LEADING TO ALL HOLLOW OR INACCESSIBLE SPACES SHALL BE SEALED WITH "NSF INTERNATIONAL" APPROVED SEALANTS.
C. ALL BACK OF HOUSE AND OFFICE WALLS SHALL HAVE 1/2" CDX PLYWOOD SUBSTRATE, U.O.N.

DECOR:
A. SEE A2.0 FOR SEATING PLAN AND DETAILS.
B. SEE A7.0 FOR FLOOR FINISHES.
C. SEE A8.0 - A8.3 FOR WALL FINISHES.
D. SEE A7.1 FOR CEILING FINISHES.

GENERAL:
A. PROVIDE THREE FIRE EXTINGUISHERS - (2) 10 lb. BC AND (1) 10 lb. ABC - TO COMPLY WITH LOCAL FIRE CODE. LOCATE PER DIRECTION OF FIRE MARSHALL OR LOCAL AUTHORIZING AGENT. FOR ADDITIONAL INFORMATION SEE SHEET A2.0
B. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON NON-BEARING INTERIOR PARTITONS, BULKHEADS AND SOFFITS IS ACCEPTABLE.

FLOOR PLAN NOTES **D**

202	NO FRP BEHIND W-059 WALK-IN COOLER/FREEZER.
203	PIPE BOLLARD. SEE CIVIL DRAWINGS.
204	HOOD WALL, SEE WALL LEGEND.
208	KEEP CLEAR FOR UTILITIES & SYRUP LINES.
210	S.S. CORNER GUARD/WALL CAP [TM-2], TYP. ALL CORNERS IN BACK OF HOUSE FROM REAR WALL TO THE KITCHEN SIDE OF THE SERVICE COUNTER. SEE DETAIL 14/A6.3.
213	SYRUP LINE CHASE (ABOVE).
214	14"x14" HORIZONTAL OPENING FOR SYRUP TUBES. COORDINATE WALL PENETRATION WITH COUNTER INSTALLER. SEAL CHASE TO COUNTER.
215	ROOF LADDER.
216	ADD SECOND 2X4 WALL ON KITCHEN SIDE.
220	SPLASH GUARD. SEE DETAIL 9/A6.3.
225	FUR OUT WALL AS INDICATED WITH 2X4 WOOD STUDS AT 16" O.C.
228	LOW WALL, BY G.C. COORDINATE WITH STRUCTURAL DRAWINGS
231	CORNER GUARD TILE SCHLUTER. SEE DETAIL 15/A6.3.

KEY NOTES **B**

GPD Engineering and Architecture
Professional Corporation - 52715
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
1	03.29.22	Building Comments
	04.01.22	Issued for Bid

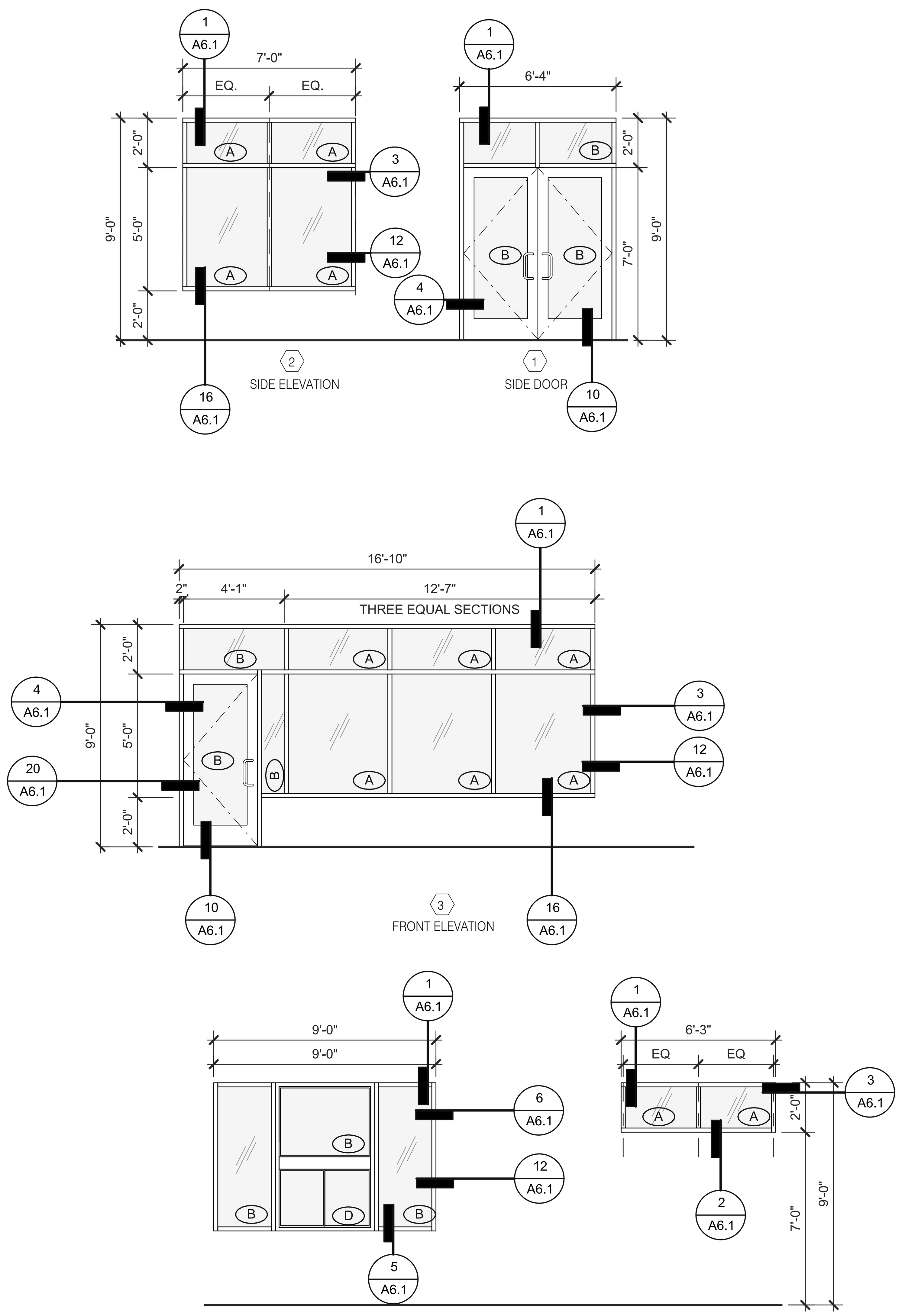
CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
FLOOR PLAN

A1.0

PLOT DATE: 3/31/2022 1:01:25 PM



(DRIVE-THRU)
SEE ALSO DETAIL 16/A6.1

4
SEE SCOPE OF WORK SHEET SW1.0 (11030-1) FOR DRIVE-THRU WINDOW INFORMATION

5
DRIVE-THRU SIDE

NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING.

WINDOW TYPES 1/4" = 1'-0" **9**

1. DIMENSIONS ON THIS DRAWING ARE TO FRAME EDGE. REFER TO SHEETS A1.0 FOR ROUGH OPENING DIMENSION
2. SEE SCHEDULE FOR GLASS TYPES.
3. REFER TO FLOOR PLAN, ELEVATIONS AND WALL SECTIONS FOR ROUGH OPENING DIMENSIONS.
4. ALL STOREFRONT MATERIAL AND GLAZING SHALL BE SUPPLIED AND INSTALLED BY G.C., U.O.N.

NATIONAL ACCOUNTS SUPPLIER

INTERIOR DOORS, FRAMES & HARDWARE	HAMILTON PARKER
LOCKNET CONSTRUCTION@LOCKNET.COM 800 JOHN C. WATTS DR. NICHOLASVILLE, KY 40356 855-432-4613 FAX: 877-887	JIM CAMPBELL D. 614-358-7806 E-MAIL: JIM CAMPBELL@HAMILTON PARKER.COM

STOREFRONT SPECIFICATION

STOREFRONT	GLAZING
OLD CASTLE FG-3000	VITROGLAZINGS SOLARBAN 70 SOLAR CONTROL LOW-E GLASS

SEE EXTERIOR ELEVATIONS FOR STOREFRONT COLOR

GLASS SCHEDULE

- (A) 1" INSULATED GLASS
- (D) SAFETY GLASS BY MFR.
- (B) 1" INSULATED TEMPERED GLASS
- (C) 1/4" TEMPERED GLASS

NOTE:
SHADING COEFFICIENT SPECIFICATION PER LOCAL CODE REQUIREMENTS. DAYTIME VISIBILITY INTO DINING ROOM SHALL BE MAINTAINED.

GREEN

****ALL STOREFRONT GLAZING SHALL BE LOW "E" SOLAR GLASS****

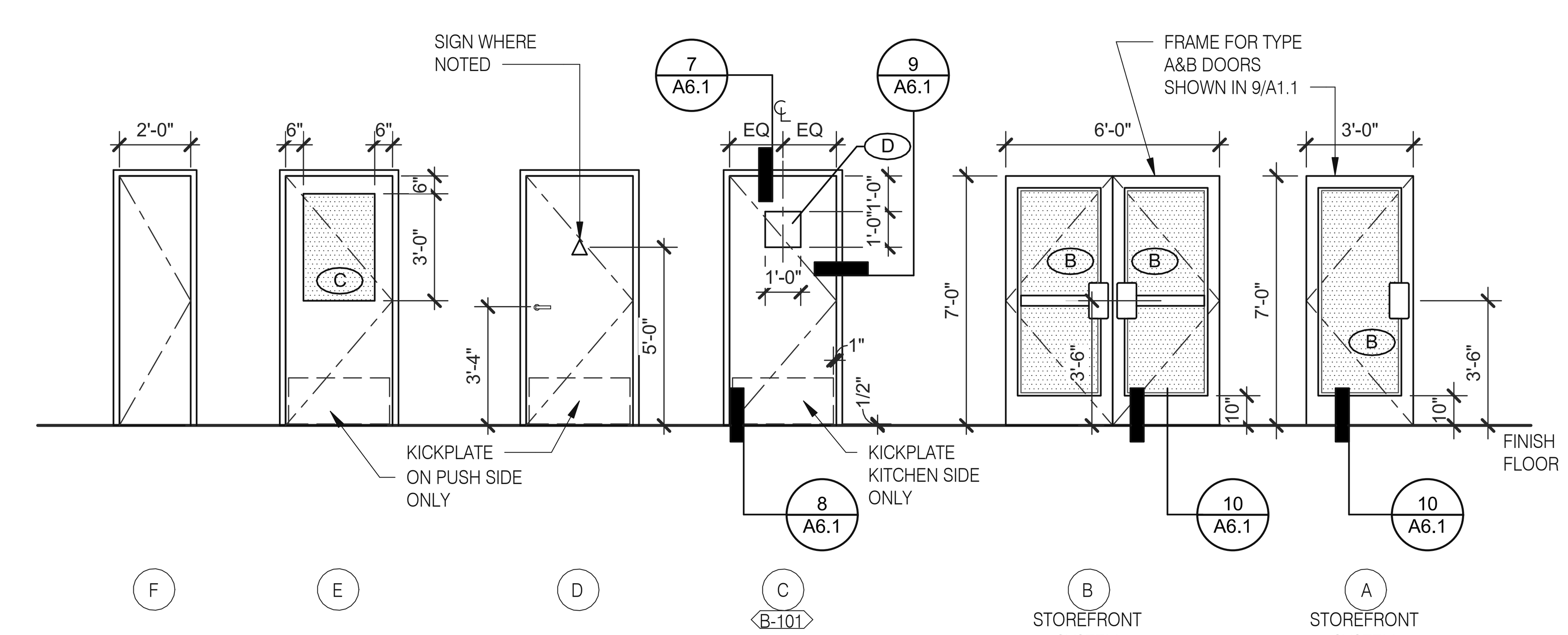
NOTES **4**

1. LAMINATE DOORS 4, 5, 6 & 7 AND PAINT FRAMES 3, 4, 5, 6 & 7. SEE INTERIOR ELEVATION, SHEET A8.0, A8.1 & A8.2.
2. ALL HARDWARE SHALL BE US32D U.O.N.
3. ALL HM FRAMES SHALL BE 16 GA. STEEL U.O.N.
4. ALL LOCKS SHALL BE FALCON 6 PIN INTERCHANGEABLE CORE SUPPLIED AND INSTALLED BY THE G.C. ALL EXTERIOR LOCKS SHALL BE PROVIDED WITH CONSTRUCTION CORES. ALL PERMANENT CORES SHALL BE KEYED ALIKE.
5. PERMANENT CORES SHALL BE SHIPPED TO THE RESTAURANT GENERAL MANAGER.
6. MOUNT DOOR CLOSERS ON RESTROOM OR KITCHEN SIDE ONLY.
7. LOCKNET SECURITY DOOR. COMPLETE DOOR, FRAME, AND HARDWARE PACKAGE PROVIDED BY RSCS FACILITIES CONNECTIONS.
8. PROVIDE PUSH/PULL PLATES. IF REQUIRED BY LOCAL CODE, STOREFRONT DOOR PANIC HARDWARE SHALL BE: DOR-O-MATIC 2092 RIM PANIC HARDWARE AND EXTERIOR PULLS WITH QUALITY #520 DOOR PULL.
9. MOUNT KICKPLATE ON PUSH SIDE ONLY.
10. MAXIMUM DOOR OPERATING PRESSURE: 5 LBS INTERIOR, 8.5 LBS EXTERIOR.
11. ADA COMPLIANT ACCESSIBILITY SIGNAGE, INCLUDE BRAILLE AS REQUIRED BY LOCAL JURISDICTION - (1) MEN, (1) WOMEN. SEE G4.0.
12. RESTROOM SIGN REQUIRED. SEE G4.0.
13. INSTALL WITH APPLIED DOORS STOPS AND WEATHER STRIPS.
14. FRAMES SHALL BE PAINTED. SEE INTERIOR OR EXTERIOR ELEVATIONS.
15. PROVIDE LATCH AND STRIKE PLATE HARDWARE BY DOOR MFR. TO BE COMPATIBLE WITH LOCK.
16. NOT USED.
17. NOT USED.
18. GC TO TRIM DOOR SWEEP TO FIT DOOR.

DOOR SCHEDULE NOTES **1**

DOOR NO.	ROOM NAME	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK	TYPE: SEE DOOR TYPE ELEVATIONS	DOOR	FRAME	BUTTS 1: ONE PAIR OFSET PIVOTS PER DOOR MANUFACTURER, TOP & BOTTOM	BUTTS 2: 1 1/2 PR McKinney #TA2731, 4-1/2" X 4-1/2"	BUTTS 3: CONT. HINGE INCLUDED IN PACKAGE	BUTTS 4: H.D. TYPE 304 S.S. BOBRICK SPRING LOADED	LOCKS 1: YALE B-PB5405LN	LOCKS 2: YALE B-PB5407LNIC	LOCKS 3: FULL LENGTH LATCH PROTECTION INCL. IN PACKAGE	LOCKS 4: PANIC HARDWARE INCLUDED IN PACKAGE	LOCKS 5: FALCON C953-7 OR C987-7 AS REQUIRED	LOCKS 6: FALCON D271 OCCUPANCY INDICATING DEADBOLT	LOCKS 7: FALCON 1690 CONCEAL VERTICAL PANIC HARDWARE	CLOSERS 1: DORMA 8616 x 689	CLOSERS 2: CLOSER INCLUDED IN PACKAGE	CLOSERS 3: DORMA 7414 ARP SNB 689	KICK PLATE 1: STAINLESS STEEL 10" X .050 X 2" L.T.D.W. *	KICK PLATE 2: KICKPLATE INCLUDED IN PACKAGE	KICK PLATE 3	THRESHOLD 1: ACCESSIBLE ALUMINUM THRESHOLD BY DOOR MFR.	THRESHOLD 2: THRESHOLD INCLUDED IN PACKAGE	THRESHOLD 3	THRESHOLD 4	DOOR STOP 1: FLOOR STOP - ROCKWOOD 441 CU	DOOR STOP 2: HINGE STOP - ROCKWOOD 532.NP	DOOR STOP 3: WALL STOP - ASA 0714 COAT HOOK W/ BUMPER	PUSH: PUSH PLATE ROCKWOOD 70F - 8" X 16"	PULL: PULL PLATE TRIMCO 1017-3B - 4" X 16"	MISC. 1: XCLUDER PEST CONTROL DOOR SWEEP #162622	MISC. 2: SWEEP (VISTA 231 STD) NGP 101VA	MISC. 3: UNDERCUT 3/4"	MISC. 4: PROVIDE A SIGN STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" (GREEN)	MISC. 5: COAT HOOK - BOBRICK	MISC. 6: DOOR SIGN	DETAIL LOCATIONS HEAD	DETAIL LOCATIONS JAMB	DETAIL LOCATIONS SILL	DOOR NOTES (* LESS THAN DOOR WIDTH)
1	DINING	3'-0"	7'-0"	1 3/4"	A	AL	AL	X								X		X	X						X										X		X					10/A6.1	8, 10, 13, 15
2	ENTRANCE	6'-0"	7'-0"	1 3/4"	B	AL	AL	X								X		X	X						X										X		X					10/A6.1	8, 10, 13, 15
3	KITCHEN	3'-6"	7'-0"	1 3/4"	C	HM	HM			X				X	X					X			X			X								X						7/A6.1	11/A6.1	8/A6.1	6, 7, 10, 14
4	MEN	3'-0"	7'-0"	1 3/4"	D	WD	HM		X								X				X	X								X		X	X			X		X	X	6/A6.4	6/A6.4		6, 9, 10, 11, 12, 14
5	WOMEN	3'-0"	7'-0"	1 3/4"	D	WD	HM																																				6, 9, 10, 11, 12, 14
6	OFFICE	3'-0"	7'-0"	1 3/4"	E	WD	HM		X				X									X			X				X							X				6/A6.4	6/A6.4		9, 14
7	CLOSET	2'-0"	7'-0"	1 3/4"	F	WD	HM		X				X																							X				6/A6.4	6/A6.4		9 BOTH SIDES, 14

DOOR SCHEDULE **2**



NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING OR OUTSIDE ROOM.

DOOR TYPES **3**

GPD Engineering and Architecture Professional Corporation - 52715
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AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

DOOR & WINDOW ELEVATIONS & SCHEDULES

A1.1

PLOT DATE: 3/31/2022 1:01:28 PM

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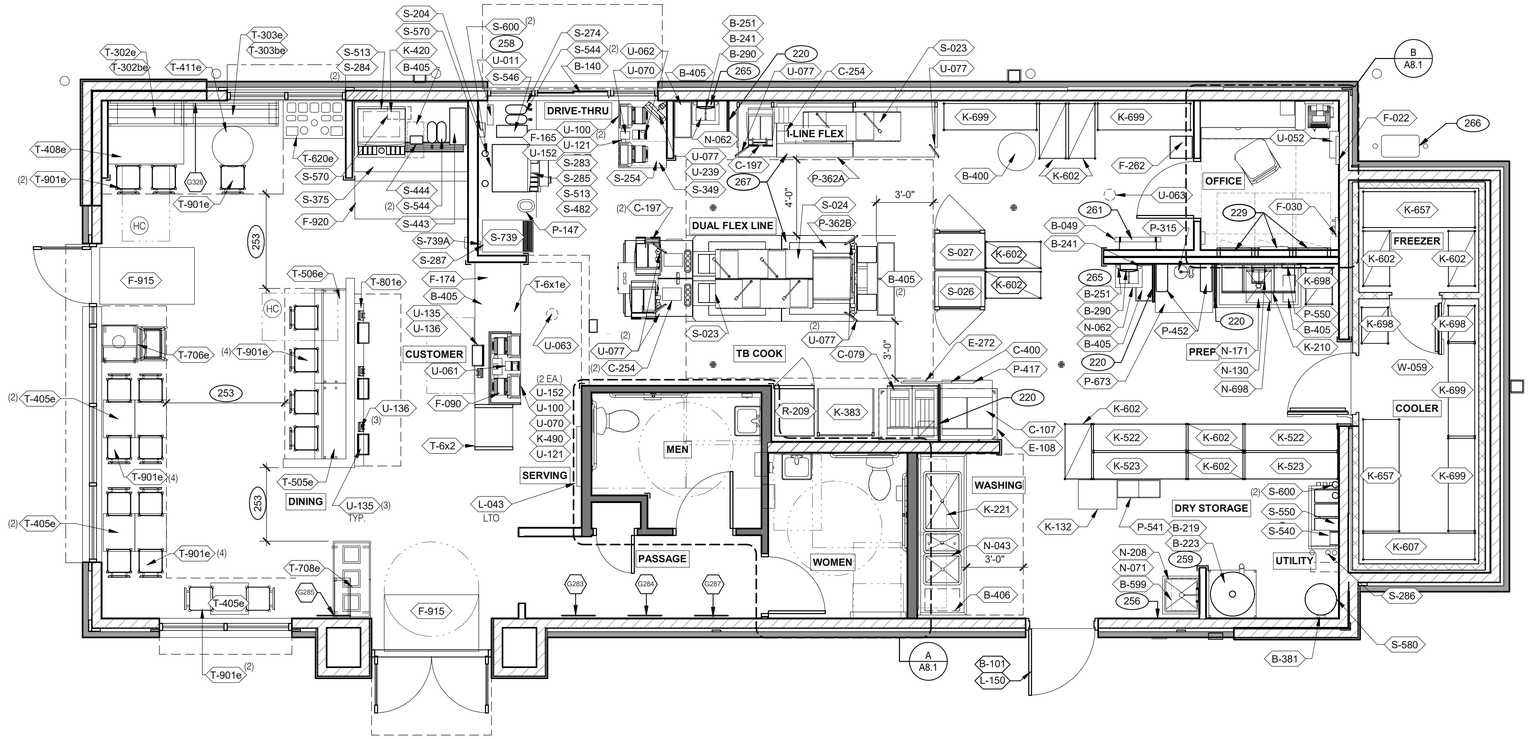

EQUIPMENT AND SEATING PLAN 1/4" = 1'-0" | A

TAG	QTY	ITEM DESCRIPTION
T-6x1e	1	GO MOBILE COUNTER
T-6x2	1	25in. TOGO Cubby
T-302be	1	BENCH BACK REST - 60"
T-302e	1	BENCH SEAT - 48"
T-303be	1	BENCH BACK REST - 60"
T-303e	1	BENCH SEAT - 60"
T-405e	5	LAMINATE TABLE - 24 X 20 X 30 - 2 TOP
T-408e	1	LAMINATE TABLE ADA - 24 X 48 X 30 - 4 TOP
T-411e	1	SS TABLE - 24 DIA X 30 - 2 TOP
T-505e	1	COUNTER TOP - 48" X 20" X 30"
T-506e	1	COUNTER TOP - 60" X 20" X 30"
T-620e	1	CONDIMENT COUNTER - RECTANGLE
T-706e	1	WASTE ENCLOSURE - SINGLE
T-708e	1	WASTE ENCLOSURE - 3 STREAM
T-801e	1	KIOSK 1/2 TOWER
T-901e	17	CHAIR - LAMINATE SEAT

FURNITURE PACKAGE - BY FURNITURE VENDOR U.O.N. | E

X	QTY.	NAME	FAMILY	FRAME OR MURAL	SIZE	LOCATION
G326	1	GM - LP MURAL	E	M01	CUSTOM	SEE A8.0
G283	1	GM - CW	E	F01	28x40	SEE A8.0
G284	1	GM - BELL	E	F01	28x40	SEE A8.0
G285	1	GM - ORG	E	F01	28x40	SEE A8.0
G287	1	GM - CW2	E	F01	28x40	SEE A8.0

ARTWORK SCHEDULE | D

DECOR
1. REFER TO SC SHEETS FOR SCOPE OF WORK RESPONSIBILITY
2. (HC)- SYMBOL DENOTES A HANDICAP ACCESSIBLE TABLE.

GENERAL NOTES | C1

STORAGE TYPE	LINEAR FT.
DRY STORAGE	53
COLD STORAGE	26
FROZEN STORAGE	12

SHELVING QUANTITIES | C2

220	SPLASH GUARD. SEE DETAIL 9/A6.3.
229	ELECTRICAL PANELS.
253	MAINTAIN 36" MIN. CLEAR ACCESSIBLE AISLE EGRESS PATHS TO EXIT DOORS, 32" AT DOORWAYS AND CASED OPENINGS. (42" AISLE REQUIRED WHEN AISLE SERVES MORE THAN 50 SEATS).
256	PULL STATION @ 3'-8" A.F.F.
258	COORDINATE LOCATION OF HORIZONTAL PVC SYRUP CHASE THRU WALL TO COUNTER.
259	6" HIGH WATER HEATER PLATFORM.
261	ROOF LADDER WITH BILCO LADDER UP SAFETY POST.
265	AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB.
266	GAS METER.
267	FOR DUAL-FLEX LINE AND I-FLEX LINE SUB-EQUIPMENT SEE SHEET A8.3.

(XXX) **KEY NOTES | B**

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JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
EQUIPMENT AND SEATING PLAN

A2.0

PLOT DATE: 3/31/2022 1:01:35 PM

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EQUIPMENT SCHEDULE

B CONTRACTOR BUILDING ELEMENTS

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
B-049	1		X	ROOF LADDER	PRECISION LADDER #PH-G2-6X3-0				
B-050	1		X	ROOF HATCH	PRECISION LADDER #PH-G-2-6X3-0				
B-101	1			SECURITY DOOR	RSBS FACILITIES CONNECTION				SECURITY DOOR PER QUOTE LOCKNET TAN STEEL. INCLUDES: STEEL FRAME
B-140	1		X	DT WINDOW	QUICKSERV#SC4030BR - SELF CLOSING, R/H HANDLE, OPENS RIGHT				FINISH TO MATCH STOREFRONT, DARK BRONZE
B-219	1		X	WATER HEATER DUNNAGE RACK	NEW AGE INDUSTRIAL CORP., INC #98147				
B-223	1		X	98% HIGH EFFICIENCY 120 MBH, 60 GAL. GAS WATER HEATER	A.O. SMITH BTH 120 60 CYCLONE HE	X		X	
B-241	4		X	SOAP DISPENSER (WALL MOUNT)	KAY 3741				
B-251	2		X	SANITIZER DISPENSER (WALL MOUNT)	KAY 3741				
B-253	2		X	PAPER TOWEL DISPENSER/TRASH 12 GAL.	BOBRICK #B-3944				
B-265	2		X	MIRROR, 18 x 36	BOBRICK #B-165-1836				
B-275	2		X	TOILET PAPER DISPENSER	BOBRICK #B-2890				
B-290	2		X	PAPER TOWEL DISPENSER	BOBRICK #B-262				
B-300	2		X	GRAB BAR 1-1/2 DIA. X 42 S.S. FIN.	BOBRICK #B6806X42				
B-305	2		X	GRAB BAR 1-1/2 DIA. X 48 S.S. FIN.	BOBRICK #B6806X48				
B-310	2		X	GRAB BAR VERTICAL 1-1/2 DIA. X 18 S.S. FIN.	BOBRICK #B6806X18				
B-320	1			CHANGING STATION					
B-381	1		X	CO2 CARBON DIOXIDE SENSOR/WARNING	LogiCO2 CO2 MK9 SENSOR		X		
B-400	1		X	WASTE BASKET - 32 GALLON	RUBBERMAID #2632 (GREY)				
B-405	7		X	WASTE BASKET					
B-406	1		X	WASTE BASKET	RUBBERMAID 28 QT #2956 (BLACK)				
B-410	1		X	SANITARY NAPKIN RECEPTACLE	RUBBERMAID #6140				
B-599	1		X	MOP SINK SHELVING	SPG #WST806Y				

C COOKING EQUIPMENT

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
C-079	1		X	DUAL FRYER	FRYMASTER #2FQG30U		X	X	COMES WITH GAS HOSE KIT (OPTIONAL: PITCO #TB-SSHLV14-2/FD VS7)
C-107	1		X	RETHERMALIZER	PITCO #TB-SRTG14-2	X	X	X	
C-197	3		X	TOASTER, SPLIT LID	PROLUXE SL1266TB		X		POWERED BY PRODUCTION LINE - (OPTIONAL: STAR #PSC14DTB)
C-254	3		X	CHEESE MELTER (SINGLE)	A.J.ANTUNES #CM-100	X	X		POWERED BY PRODUCTION LINE
C-400	2		X	RETHERMALIZER TIMER	FAST #TBZAP12120V		X		

E EXHAUST HOODS/FIRE SUPPORT

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
E-108	1		X	STROTEVENT 106 IN. H X 111 IN. L BACK SPLASH	STROTEVENT MODEL #BACKSPLASH106X111FLA		X		
E-272	1		X	TIMER OUTLET			X		

F OFFICE/EMPLOYEE/MUSIC/MISCELLANEOUS

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
F-014	1		X	FILE CABINET (2 DRAWER HIGH) 18X36X27H	HON #582LL				
F-021	1		X	CHAIR - OFFICE	HON #4609AB10				IN OFFICE AREA, SEE SHEET A8.2
F-022	1		X	LICENSE FRAME (BLACK)	CREATIVE PALETTE TB30		X		IN OFFICE AREA
F-026	1		X	DESK LAMP	TBD				IN OFFICE AREA, SEE SHEET A8.2
F-030	1		X	COAT HOOK	ISS #HOOK246R2Y		X		IN OFFICE AREA
F-040	1			OFFICE COMPUTER	POS PROVIDED		X		IN OFFICE AREA, SEE SHEET A8.2
F-050	1			CREDIT CARD SATELLITE ROUTER JUNCTION					
F-060	1			MONITOR - OFFICE	YUM				
F-080	1			OFFICE PRINTER/COPIER/FAX/SCANNER	POS PROVIDED		X		
F-090	4			UPS (UN-INTERUPTABLE POWER SUPPLY)	POS PROVIDED		X		
F-102	1		X	MONEY COUNTER	TELLERMATE #TIXR3000		X		IN OFFICE AREA
F-131	1			SPEAKERS	MOOD MEDIA LOCAL LEASE		X		
F-165	2		X	FRONT LOAD SAFE	PERMA VAULT #PRO-10TM				
F-174	1			SAFE WITH TOUCH SCREEN CONTROLS			X		
F-211	1		X	CLOCK	B&B SYSTEMS #02100100				IN OFFICE AREA, SEE SHEET A8.2
F-262	1		X	6 COUNT EMPLOYEE LOCKERS E76000235	LYON WORKPLACE 12" X 18" X 78" GREY		X		IN OFFICE AREA
F-270	1		X	FIRST AID KIT	PROSTAT FIRST AID LCC #2617		X		IN OFFICE AREA
F-500	1			STACKABLE HIGH CHAIR					
F-504	1			DVR & MONITOR					
F-915	2			FLOOR MAT	CREWSAFE, ENTRANCE I #41150012				RUBBERIZED - 3'-5', RIBBED, CHARCOAL, WSM #800503
F-920	1			RUBBER MAT	CREWSAFE, WSM#800507				RUBBERIZED - BLACK 2X8, 1/4 NON SLIP CORRUGATED TOP & RUBBER NO-SLIP BACK ENTRANCE

K WORKSTATIONS/SHELVING/CARTS

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
K-132	1			CART, CLOSING MADE SIMPLE	SPG / ISS (Alternate: METRO)				#WST1434Y
K-210	1			PREP SINK WORKSTATION 50 TRACK	SPG / ISS (Alternate: METRO)				#WST255E, Wall Trax System for 1-Comp Sink, 16X50X40 + ACC
K-221	1		X	3 COMP SINK WORKSTATION 96 TRACK	SPG / ISS (Alternate: METRO)				#DS1F, Wall Trax System for 3 Comp Sink, (3) 18X24 GRIDS + ACC
K-383	1			FRY WORKSTATION 30D x 78H x 36 in.	SPG / ISS (Alternate: METRO)				#WST1724E, 36 in. Crispy Frystation
K-420	1			SHELF, BEV PLATFORM 18X24	SPG / ISS (Alternate: METRO)				#WST34Y: F/CARBONATOR, &/OR RECIRC PUMP
K-490	2			SHELVING 18x24x24, 2-TIER	SPG / ISS (Alternate: METRO)				#WST440Y
K-522	2			SHELVING, 18x60x76, 5-TIER, SMALL PACKAGING	SPG / ISS (Alternate: METRO)				#WST1548Y
K-523	2			SHELVING, 18x60x76, 3-TIER, CUP & LID	SPG / ISS (Alternate: METRO)				#WST1580Y
K-602	9			SHELVING, 18x36x86, 5-TIER, DRY STORAGE	SPG / ISS (Alternate: METRO)				#WST238Y
K-607	1			SHELVING	SPG / ISS (Alternate: METRO)				
K-657	2		X	SHELVING 24x72x86, 5-TIER	SPG / ISS (Alternate: METRO)				#SU247285Y: WALK-IN COOLER 24X72X86
K-698	3			SHELVING 18X24X74, 5-TIER	SPG / ISS (Alternate: METRO)				#SU186075Y
K-699	4			SHELVING 18x60x74, 5-TIER	SPG / ISS (Alternate: METRO)				#SU186075Y

L LIGHTING/SIGNAGE/MENUBOARDS

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
L-043	1			DIGITAL MENU BOARD	STRATACACHE, LG 43" DISPLAY		X		
L-150	1		X	SECURITY DOOR DANGER SIGN	ADVERCO#ADVCUSTOM				ORDERED DIRECT FROM YRFS

N SINKS/DISHWASHER

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
N-043	1		X	3-COMP POWER SOAK 102	UNIFIED #PS6750	X	X		GEN IV POWERSOAK INCLUDES T&S FAUCET #B-2475-PS-OH (FRANCHISE OPTION: GEN III)
N-062	2		X	STAINLESS STEEL WALL MOUNTED SINK WITH FAUCET	AERO #HS-MOD	X			
N-071	1		X	MOP SINK FAUCET	T&S B-2465	X			
N-130	1		X	1 COMP PREP SINK FAUCET	T&S B-0831-WA	X			FRANCHISE OPTION N-134: T&S B-2465
N-141	2		X	WALL MOUNTED LAVATORY	AMERICAN STANDARDS BRAND	X			WHITE VITREOUS CHINA WALL MOUNTED LAVATORY WITH ACCESSORIES. N-141 IS METERED FAUCET.FAUCET, LAVATORY, CENTERSET MIXING, #B-0890-WS
N-146	2		X	FAUCET (RESTROOMS)	T&S FAUCET B-0831-WA	X			2" TWIST TYPE FOR N-698
N-171	1			LEVER WASTE DRAIN		X			
N-208	1		X	MOP SINK	AERO #3MP-2121-6/1P	X			INCLUDES (2) 24X36 WALL PANELS
N-698	1		X	1 COMP PREP SINK 53W X 27D X 35 1/2H	AERO #2F1211617LR	X			

P FOOD PREPARATION

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
P-147	1			BUNN COFFEE BREWER	MCA BLK Single Serve #35400.0005		X		
P-315	1		X	REVERSE OSMOSIS SYSTEM	3M #56123-06, FSTM-075	X			INSTALL OVER FLOOR SINK
P-362A	1		X	FLEX I LINE, L-R	FRANKE	X	X		
P-362B	1		X	FLEX DUAL LINE	FRANKE	X	X		
P-417	1		X	8-CHANNEL TIMER	FAST #KTRACK2X4TB		X		
P-452	2		X	HOT WATER SYSTEM	BUNN-MACHINE #43600.0014	X	X		Each System= Water Heater #43600.0014, Bracket #13125.0003, Shelf#12599.0000, Scale Inhibitor #39000.0001
P-541	1			STORAGE BINS	B4B SYSTEMS #03070100				
P-550	1		X	KNIFE RACK	EDLUND #KR-699				
P-673	1			WORK TABLE					

S SERVING/DRIVE-THRU

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
S-023	2		X	WARMER, EVO	CARTER HOFFMAN			X	MOUNT ON PRODUCTION LINE OVER SHELF
S-024	1		X	WARMER, EVO	CARTER HOFFMAN			X	MOUNT ON PRODUCTION LINE OVER SHELF
S-026	1		X	HEAT CABINET - FULL HEIGTH - (1) RH	CRESCOR #H137S27D1TB			X	W/8 SHELVES EACH
S-027	1		X	HEAT CABINET - FULL HEIGHT - (1) RH	CRESCOR #H137S27D1TB			X	W/ 8 RACKS
S-065	1		X	DESSERT TOWER	HATCO #GRBW-24D				
S-204	1		X	DRIVE-THRU TIMER SYSTEM	HME #C11422TB			X	
S-254	1			CONDIMENT RACK	PRONTO #CHPWO446				
S-274	1		X	DRIVE-THRU BEVERAGE WORKSTATION	SPG WST1242YA				OPTIONAL: METRO
S-283	1		X	DRINK STAGER WITHOUT STRAW HOLDER	WST788E				
S-284	1			BEVERAGE DISPENSER - SELF-SERVE	CORNELIUS 611057625	X	X		SEE SCOPE OF WORK (PEPSI)
S-285	1			BEVERAGE DISPENSER - DRIVE THRU	SERVEND	X	X		SEE SCOPE OF WORK (PEPSI)
S-286	1		X	WATER FILTER SYSTEM	SHURFLO #WB6-M3-22-003				FRANCHISEES CAN USE SELECTO #TB5/620-5
S-287	1		X	ISS-TABLE, D/T, TB, 24 IN X36 IN PREASSEMBLED	FBD #1273610021	X	X		
S-349	1			DRIVE-THRU PICK-UP WORKSTATION 30X42	SPG				OPTIONAL:METRO
S-375	1		X	DRINK STATION	CARTER-HOFFMAN	X			S/S, INSULATED DRAIN TROUGH, WEIGHT RATED
S-443	1		X	LID DISPENSER	CAL-MIL ADA TB103				
S-444	1		X	NAPKIN DISPENSER	TOR XPRESSNAP #5555100				
S-482	1			CUP DISPENSER	A.J. ATUNES #DACS60				W/ ANGLED MOUNTING BRICKET OMNITEAM CDB-DTA
S-489	2			SCALE	EDLUND				10#X.1OZ, ELECTRONIC, EDLUND #DS-10 CSTM; WSM #113464
S-513	2			ICE MAKER (PLACED ON TOP OF DRINK MACHINES)	MANITOWOC, KMS-1401MLJ	X	X		W/ROOF MOUNTED CONDENSERS HOSHIZAKI FRANCHISEES CAN USE HOSHISAKI KMS-1230
S-540	1			PEPSI BOOSTER TANK		X	X		SEE SCOPE OF WORK (PEPSI)
S-544	4			ICE TEA URN	BUNN/TDO-N-3.5				
S-546	1		X	ICED TEA BREWER	TETLEY TB3Q	X	X		
S-550	1			BAG-IN-BOX SYRUP RACK	CORNELIUS/REMCOR BNP12B8P	X			FLO-3REG-2CRB (BY PEPSI)
S-570	2			CARBONATOR	CORNELIUS/REMCOR	X	X		SHELF MOUNTED BELOW EACH DRINK (BY PEPSI)
S-580	1			CO2 BULK TANK	MVE #11805373				SEE SCOPE OF WORK (PEPSI)
S-600	4			BUNDLED SYRUP LINES	CORNELIUS/REMCOR TUBE BUNDLE	X			
S-739	1		X	FROZEN BEVERAGE DISPENSER, REMOTE	FBD #12-7362-00021	X	X		MUST ORDER REMOTE CONDENSER S-739A FREEZE TRANSFORMER
S-739A	1		X	FREEZE TRANSFORMER			X		
S-740	1		X	FROZEN BEVERAGE CONDENSER, REMOTE	FBD #12-3003-0006	X	X		40 IN X 17 IN X 21 IN 208 SINGLE PHASE 2 WIRE 15 AMP, 105LB

U SECURITY/COMMUNICATIONS/FIRE PROTECTION/POS

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
U-011	1			BASE STATION - D/T COMM. SYSTEM	HME #C40000-5-HS3-TB				
U-052	1		X	SECURITY SYSTEM	ADT #3BCZTB		X		
U-061	1			CREDIT CARD READER			X		
U-062	1			DRIVE-THRU CREDIT CARD READER	VERIFONE P400		X		
U-063	2			ALARM SENSOR			X		
U-070	3			RECIEPT PRINTER	EPSON		X		2 FOR F/C AND 1 D/T 5.71 IN X 7.68 IN X 5.83 IN
U-076	2			ATOM SERVER	EN POINTE TECHNOLOGIES		X		12V DC 60W SYSE3029ARS011-CSP
U-077	7			TABLET 10.1"	EN POINTE TECHNOLOGIES - TABLET E611101				
U-100	4			POS/ORDER ENTRY TERMINAL			X		2 FOR F/C AND 1 D/T
U-121	3			CASH DRAWER BRACKETS	#SU186075Y				2 PER CASH DRAWER
U-135	4			KIOSK TABLET	SSP		X		
U-136	4			VERIFONE (CREDIT CARD MACHINE	SSP		X		
U-152	3			CASH DRAWER	IBM, NCR & PAR				2 FOR F/C AND D/T
U-239	1			MONITOR CEILING MOUNTED BRACKET	IBM, NCR & PAR				

W WALK-IN COOLERS/FREEZERS

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
W-059	1		X	WALK-IN	ICS/NORLAKE #105181	X	X		COMBO, TB, #105181, BUDGETARY 19-4X7X9-2 OAD, MEDIUM BUILDING PROTOTYPE, INCLUDES LED

R REFRIGERATION

TAG	#	C.G.C.	INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
R-209	1			FRY STATION REACH-IN FREEZER (RIGHT HINGED)	DELFIELD #GBF1P-SH-TB2			X	OPTION: LEFT HINGED VERSION - DELFIELD #GBF1P-SH-IK-TB2

GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
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	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
	04.01.22	Issued for Bid

CONTRACT DATE: 11.18.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314703
STORE NUMBER: 454826
PA/PM: JW
DRAWN BY.: RS
JOB NO.: 2020088.07

TACO BELL

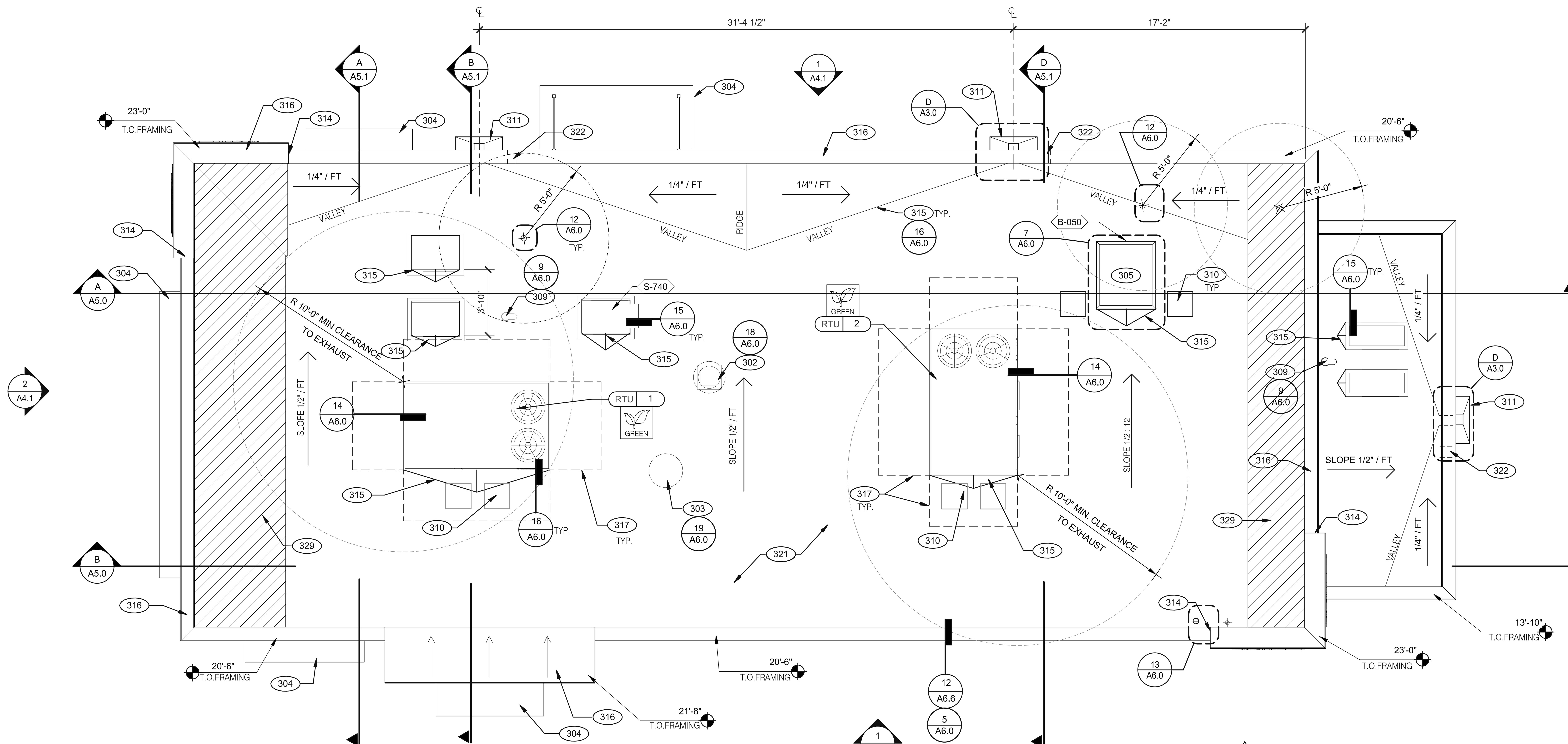
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
EQUIPMENT SCHEDULE

A2.1

PLOT DATE: 3/31/2022 1:01:41 PM

C:\Users\rspeak\OneDrive - GPD Group\Documents\TB 314703 Mt Holly NC - ARCH_SM20_CSpeakNKMEX.rvt



1

- CALCULATIONS BASED ON 100 YEAR 1-HOUR RAINFALL RATE OF 4.0 INCHES, PER NCPC 2018.
- TOTAL MAIN ROOF AREA: 1,786 SQ FT
- DRAINAGE AREA PER SCUPPER: 893 SQ FT
- CAPACITY CALCULATION: (4.0 IN/HR) x (1 FT / 12 IN) x (1 HR / 60 MIN) x (893 SQ FT) = 4.96 CU FT / MIN = 35 GPM
- MINIMUM 1 3/4" X 2 1/2" VERTICAL LEADER BASED ON NCPC 2018 TABLE 1106.2.
  1. INSTALL MINIMUM 4"X6" VERTICAL LEADER.

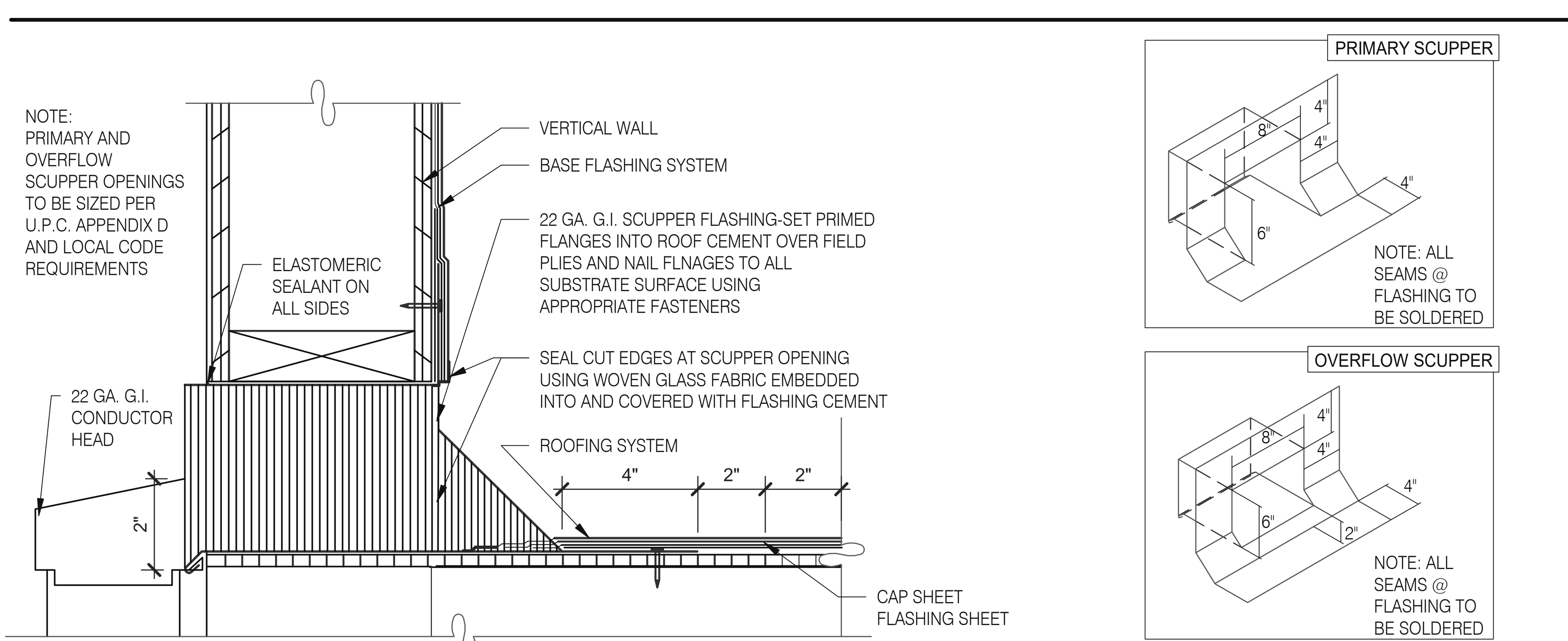
1

- CALCULATIONS BASED ON 100 YEAR 1-HOUR RAINFALL RATE OF 4.0 INCHES, PER NCPC 2018.
- TOTAL COOLER ROOF AREA: 150 SQ FT
- DRAINAGE AREA PER SCUPPER: 150 SQ FT
- CAPACITY CALCULATION: (4.0 IN/HR) x (1 FT / 12 IN) x (1 HR / 60 MIN) x (150 SQ FT) = .83 CU FT / MIN = 6.23 GPM
- MINIMUM 1 3/4" X 2 1/2" VERTICAL LEADER BASED ON NCPC 2018 TABLE 1106.2.
  1. INSTALL MINIMUM 4"X6" VERTICAL LEADER.

N

ROOF PLAN 1/4" = 1'-0" **A**

NOTE:
PRIMARY AND OVERFLOW SCUPPER OPENINGS TO BE SIZED PER U.P.C. APPENDIX D AND LOCAL CODE REQUIREMENTS



* DESIGN AND SIZE PER LOCAL REQUIREMENTS

SCUPPER FLASHING **D**

WATERPROOFING:

A. PAINT UNDERSIDE OF PARAPET CAP FLASHING WITH FACTORY BONDED PAINT GRIP OR PRIMER
B. TOP NAILING AT PARAPET CAP FLASHING WILL NOT BE ACCEPTED
C. PENETRATIONS IN ROOFING MEMBRANE AND FLASHING SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS OR SPECS.
D. SEE SPECIFICATIONS FOR SEALANT SPECS.
E. ALL SHEETS MTL FLASHONG SHALL BE 22 GA MIN.

MISCELLANEOUS:

A. ROOF PENETRATIONS CLOSER THAN 12" FROM ANOTHER WILL NOT BE ALLOWED.
B. EXHAUST FANS MIN. 10'-0" AWAY FROM ALL AIR INTAKE / SUPPLY.
C. LOCATE WALK-IN CONDENSERS ON ROOF ONLY IF REQUIRED BY CODE.

ROOF PLAN NOTES **C**

302	KITCHEN HOOD EXHAUST FAN. SEE SHEETS M3.0 AND DETAIL 19/A6.0.
303	RESTROOM EXHAUST FAN. SEE MECHANICAL DRAWINGS AND DETAIL 18/A6.0
304	CANOPY, BY SIGNAGE VENDOR. SEE SCOPE OF WORK.
305	ROOF HATCH. SEE DETAIL 7/A6.0.
309	PIPE HOOD FOR UTILITIES. SEE DETAIL 9/A6.0.
310	24x36 WALK MATS. SEE ROOF SPECS.
311	SCUPPER AND DOWNSPOUT. SEE DETAIL D/A3.0.
314	CHANGE IN PARAPET ELEVATION. SEE SECTION 13/A6.1.
315	ROOF CRICKET. SEE DETAIL 16/A6.0.
316	METAL PARAPET CAP.
317	MAINTAIN MANUFACTURERS ROOFTOP UNIT MAINTENANCE CLEARANCE.
321	'DURO-LAST' SINGLE PLY ROOF MEMBRANE OVER MINIMUM R-35 RIGID INSULATION BOARD OVER 5/8" APA RATED EXTERIOR GRADE PLYWOOD OVER TRUSSES. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
322	OVERFLOW SCUPPER. SEE DETAIL D/A3.0.
329	KICKERS, SEE STRUCTURAL DRAWINGS

KEY NOTES **B**

GPD Engineering and Architecture
Professional Corporation - 52715

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330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
1	03.29.22	Building Comments
	04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

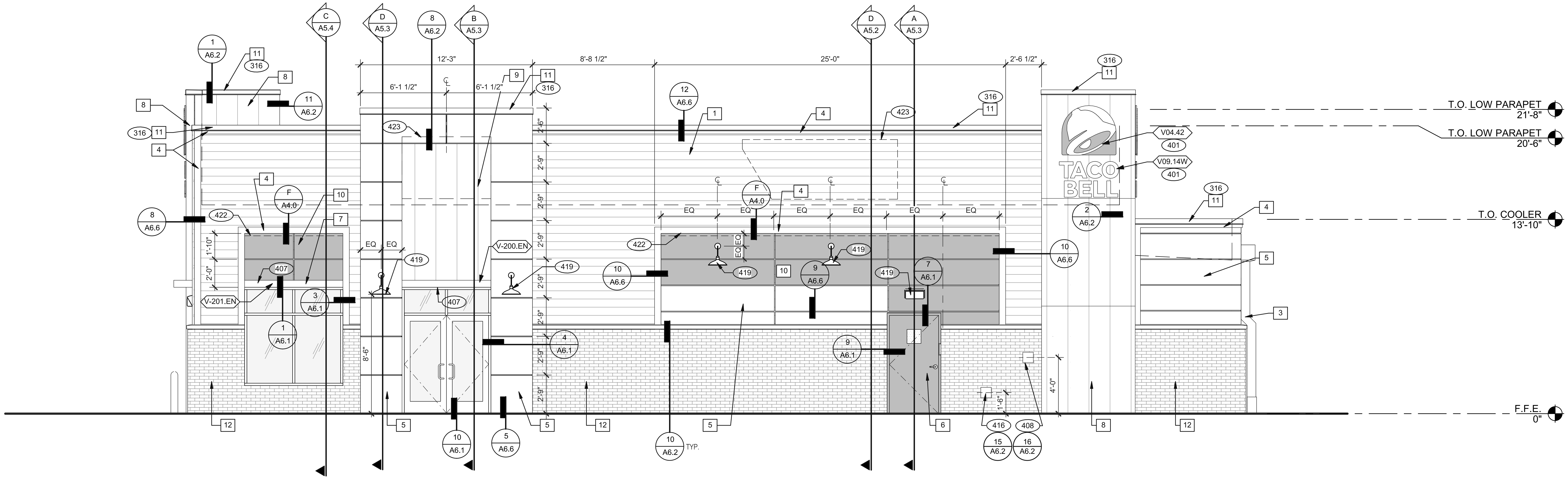
TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

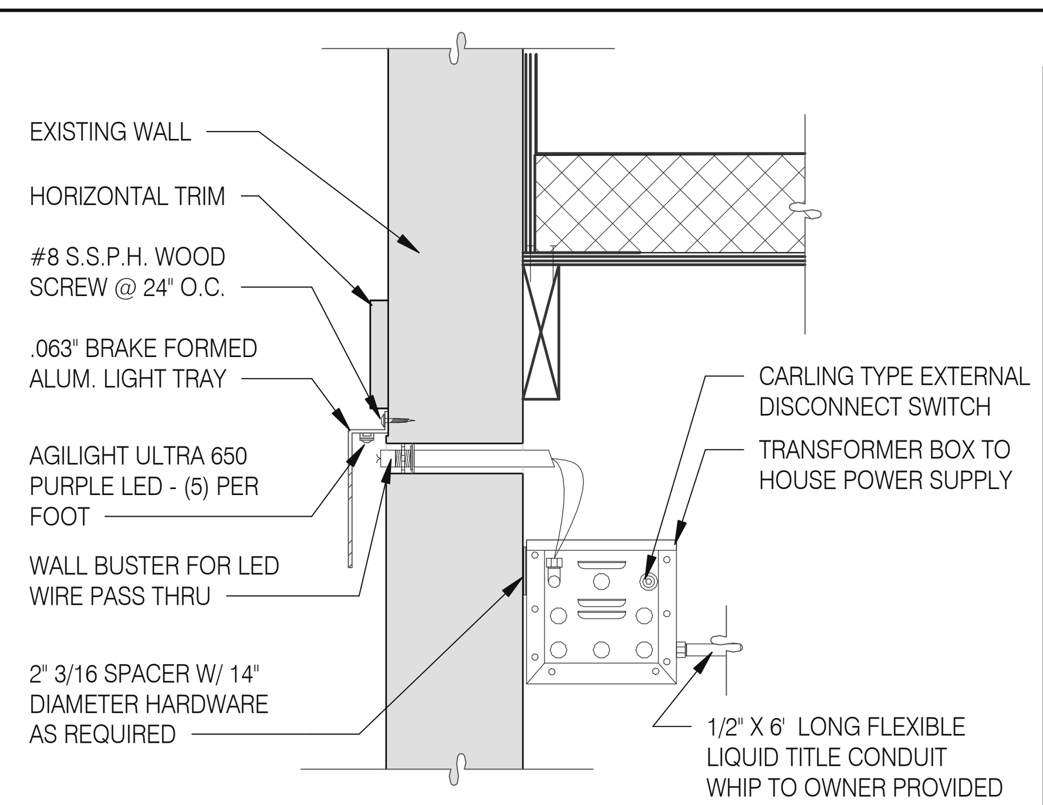
ENDEAVOR 2.0
ROOF PLAN

A3.0

PLOT DATE: 3/31/2022 1:01:44 PM



WEST ELEVATION 1/4" = 1'-0" | **1**



LED WALL WASHER DETAIL | **F**

TYPE MARK	QTY	ITEM DESCRIPTION	LOC
TOWER			
V-09.14W	4	14" WHITE CHANNEL LETTERS VERTICAL	A4.1
V-04.42	4	42" SWINGING BELL PURPLE LOGO FACE LIT	A4.1
SIDE ENTRY			
DRIVE THRU			
V-101.DT	1	DT AWNING (OVER DT) 9' 0" L X6" H X 4' 0" D BLACK	A4.1
EYEBROW AWNINGS			
V-201.EN	1	SIDE ENTRY EYEBROW (WINDOW) 6' 11" L X 6" H X 1' 4" D BLACK	A4.0
V-202.EN	1	FRONT EYEBROW (WINDOW) 16' 9" L X 6" H X 1' 4" D BLACK	A4.1
V-203.EN	1	DT EYEBROW (WINDOW) 6' 2" L X 6" H X 1' 4" D BLACK	A4.1

SIGNAGE | **E**

MISCELLANEOUS
A. SEE SHEET A1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.

SEALERS (REFER TO SPECS)
A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
B. SEALANT AT ALL WINDOW AND DOOR FRAMES AND JAMB. DO NOT SEAL SILL @ WINDOWS.
C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING AND CANOPY.

CRITICAL DIMENSIONS
A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SIGNAGE/BUILDING ELEMENTS DIMENSIONS.

NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLATION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS.

GENERAL NOTES | **C**

PAINTING
APPLICATOR MUST DO THEIR DUE DILIGENCE WITH PREPARATION.
PRIMER: 1 COAT SW A24W8300
FINISH: 2 COATS SW A82-100 SERIES, MATCH COLORS FROM MATERIAL SCHEDULE.
A-100 EXTERIOR LATEX SATIN.

PAINT NOTES | **A**

SYMBOL	ITEM/MATERIAL	MANUFACTURER	MATERIAL SPEC	COLOR	CONTACT INFORMATION
1	SIDING	JAMES HARDIE	ARTISAN V-GROOVE 144"L X 8.25"W; 7" EXPOSURE COMES PRIMED FOR PAINT	WORLDLY GRAY (SW7043), SEMI-GLOSS	SEE C / A 7.2
2	SCUPPERS	-	-	WORLDLY GRAY (SW7043), SEMI-GLOSS	
3	DOWN SPOUTS	-	-	WORLDLY GRAY (SW7043), SEMI-GLOSS	
4	HARDIE TRIM	JAMES HARDIE	HARDIE TRIM 5/4 SMOOTH 1"x5.5"	CYBERSPACE (SW7076), SEMI-GLOSS	SEE C / A 7.2
5	HARDIE REVEAL PANEL	JAMES HARDIE	REVEAL PANEL SYSTEM	CYBERSPACE (SW7076), SEMI-GLOSS	SEE C / A 7.2
6	HOLLOW METAL DOOR	-	-	SW PURPLE TB2603C, SEMI-GLOSS	
7	AWNINGS	SIGNAGE VENDOR	-	BLACK BY THE SIGNAGE VENDOR	
8	CORNER TOWER	WESTERN STATE	T-GROOVE 24GA PAINTED 18" PANEL	WEATHERED RUSTIC	SEE C / A 7.2
9	RECESS OF SIDE ENTRY PORTAL	WESTERN STATE	T-GROOVE 24GA PAINTED 18" PANEL	WEATHERED RUSTIC	SEE C / A 7.2
10	HARDIE REVEAL PANEL	JAMES HARDIE	REVEAL PANEL SYSTEM	SW PURPLE TB2603C, SEMI-GLOSS	SEE C / A 7.2
11	METAL PARAPET CAP	-	24GA GALVANIZED	CYBERSPACE (SW7076) KYNAR 500 COATING	
12	BRICK	INTERSTATE BRICK	2 1/4" MODULAR BRICK	CUSTOM BLEND, 70% PEWTER / 30% PLATINUM, RANDOM INSTALL	

EXTERIOR FINISH SCHEDULE | **D**

316 METAL PARAPET CAP.
401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
407 METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
408 CO2 FILLER VALVE & COVER.
416 HOSE BIBB BOX AT 18" A.F.F. SEE PLUMBING DRAWINGS.
419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
422 PURPLE LIGHT WALL WASHER, PROVIDED BY SIGNAGE VENDOR, REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
423 OUTLINE OF RTU BEYOND.

KEY NOTES | **B**

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Professional Corporation - 52715

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PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

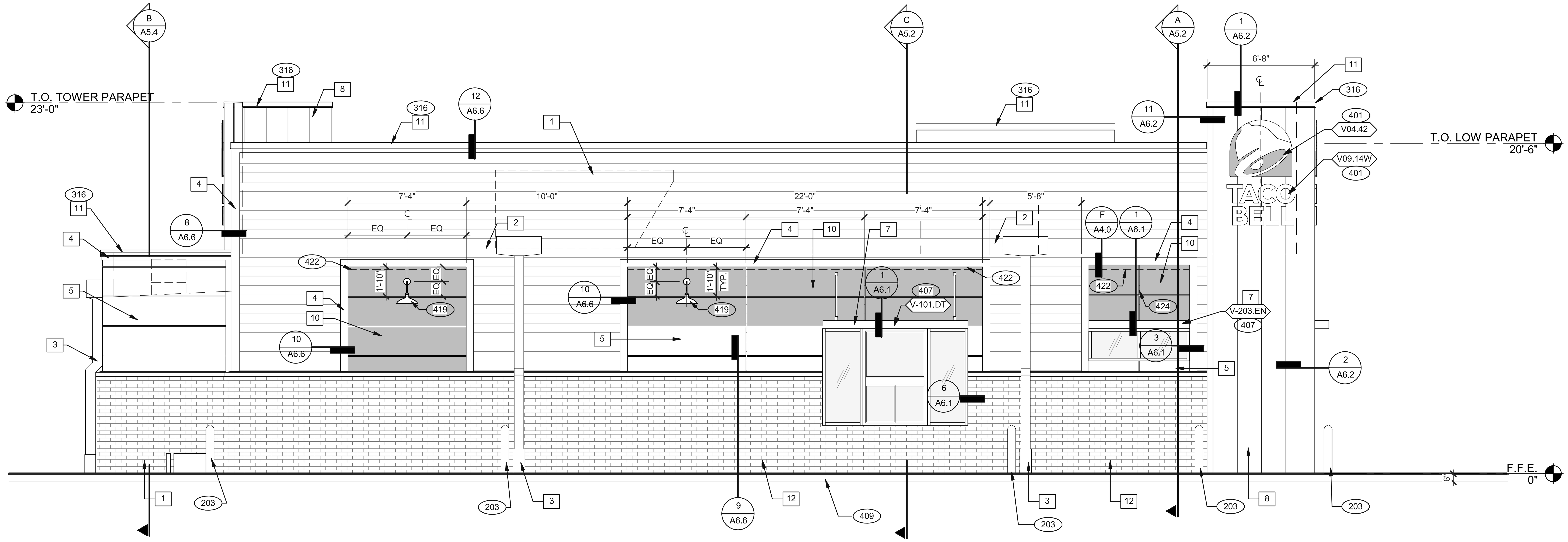
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
EXTERIOR ELEVATIONS

A4.0

PLOT DATE: 3/31/2022 1:01:48 PM

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

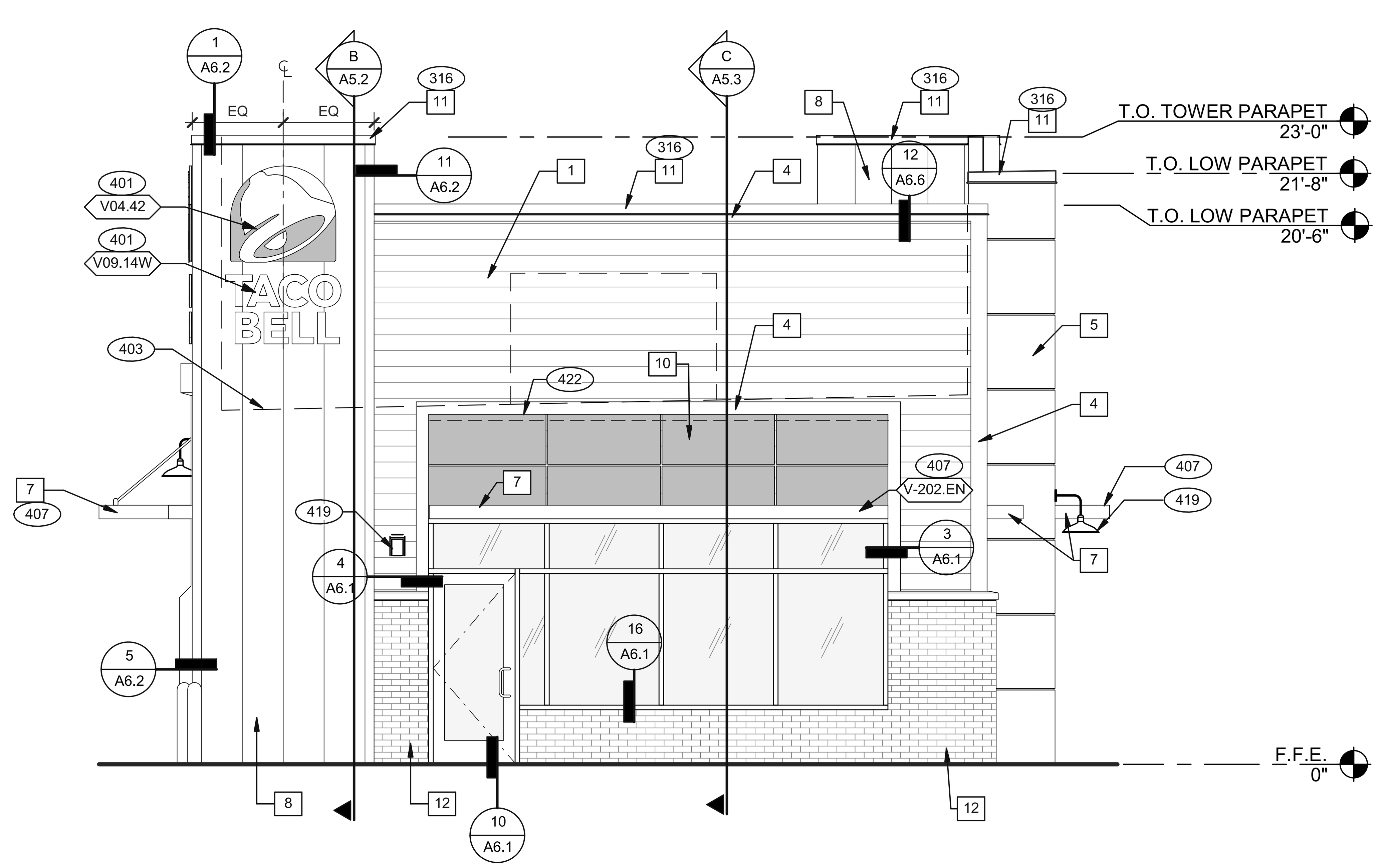


EAST ELEVATION 1/4" = 1'-0" **1**

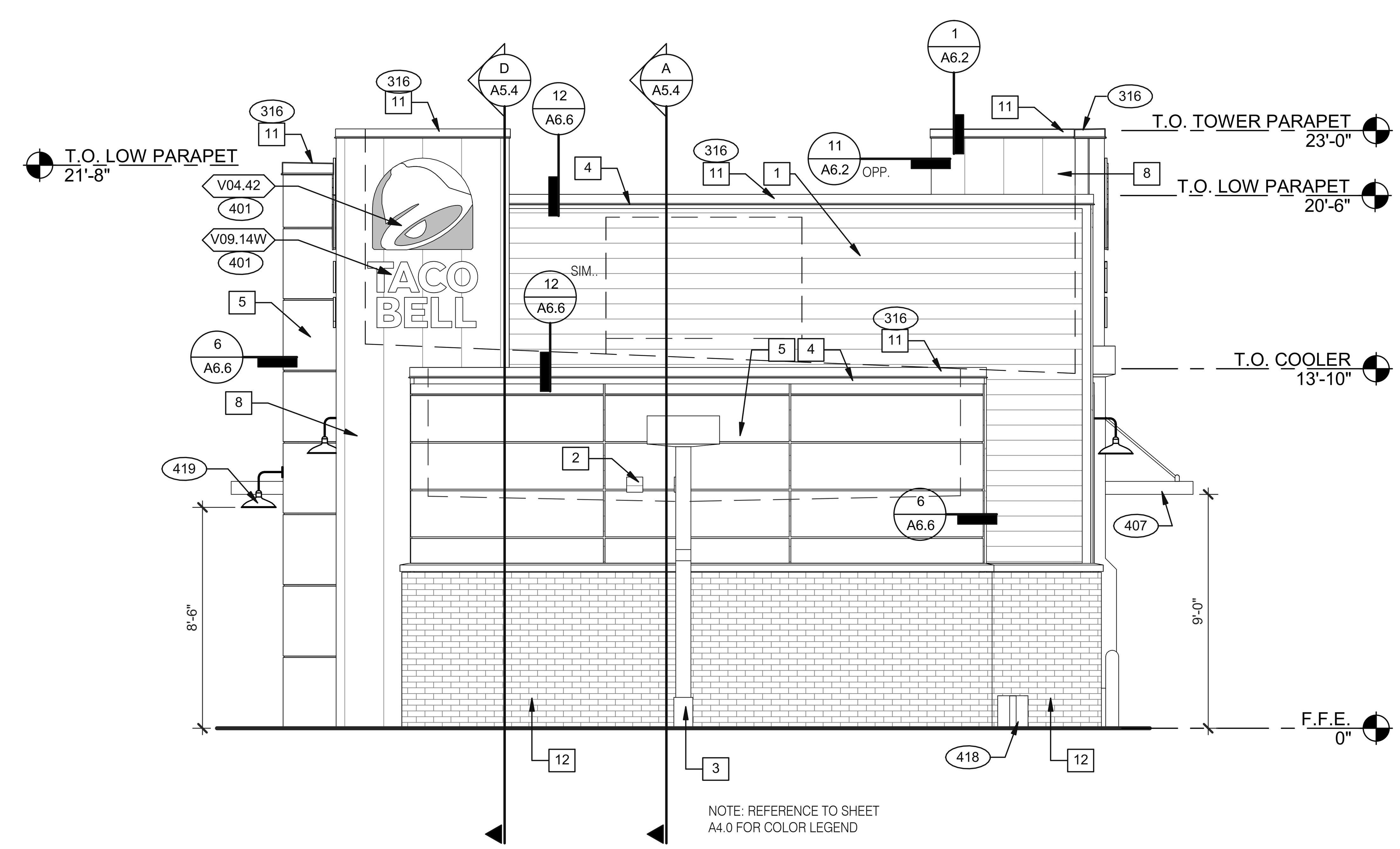
KEY NOTES **A**

SEE SHEET A4.0 FOR FINISH SCHEDULE

203	PIPE BOLLARD. SEE CIVIL DRAWINGS.
316	METAL PARAPET CAP.
401	BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
403	DASHED LINE INDICATES ROOF BEYOND.
407	METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
409	ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
418	GAS METER.
419	EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
422	PURPLE LIGHT WALL WASHER, PROVIDED BY SIGNAGE VENDOR, REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
424	ALIGN REVEAL WITH VERTICAL MULLION.



NORTH ELEVATION 1/4" = 1'-0" **2**



NOTE: REFERENCE TO SHEET A4.0 FOR COLOR LEGEND

SOUTH ELEVATION 1/4" = 1'-0" **3**

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AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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	03.17.22	Issued for RSCS Bid
	04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

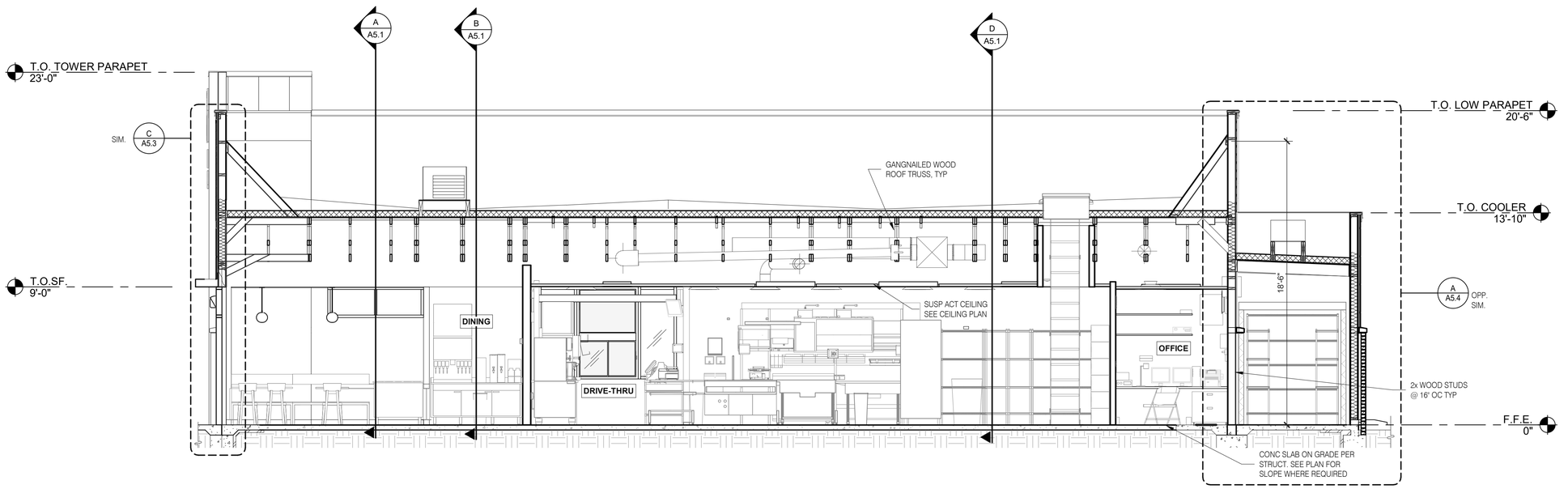
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
EXTERIOR ELEVATIONS

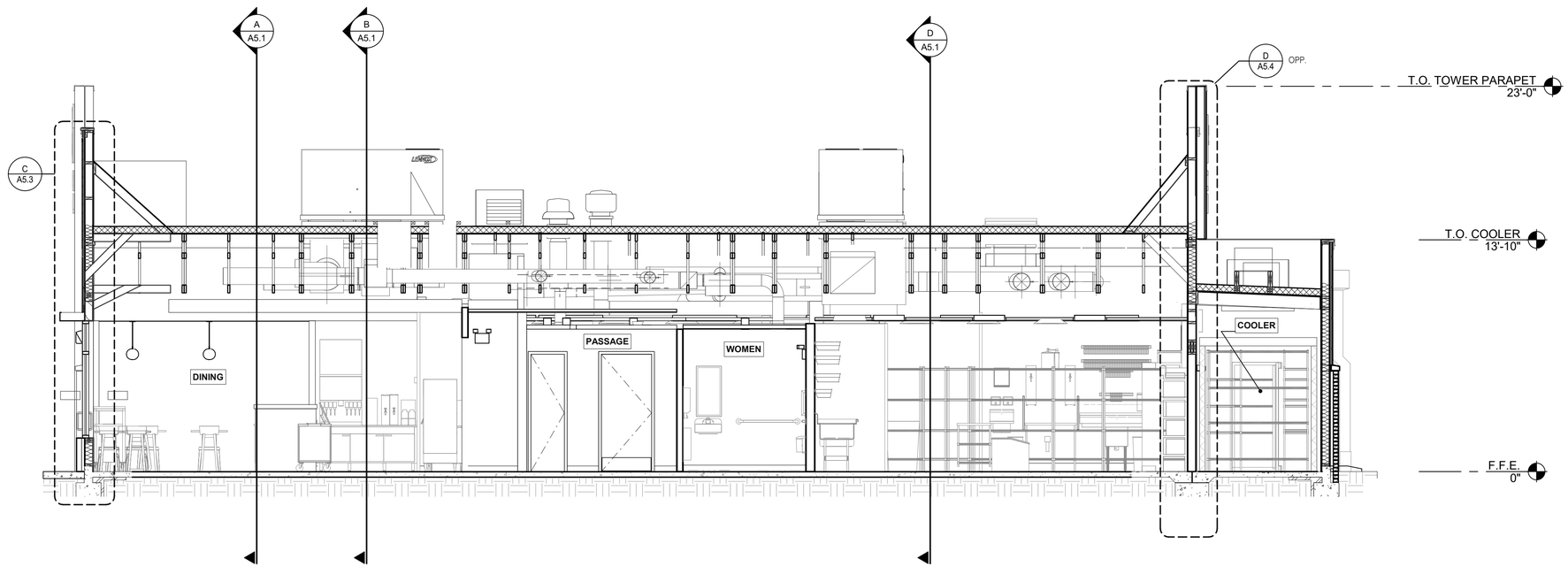
A4.1

PLOT DATE: 3/31/2022 1:01:55 PM

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



EAST/WEST BUILDING SECTION 2 1/4" = 1'-0" | **A**



EAST/WEST BUILDING SECTION 1 1/4" = 1'-0" | **B**

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JOB NO.: 2020088.07

TACO BELL

109 Tuckaseege Rd.
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ENDEAVOR 2.0
BUILDING SECTIONS

A5.0

PLOT DATE: 3/31/2022 1:02:18 PM

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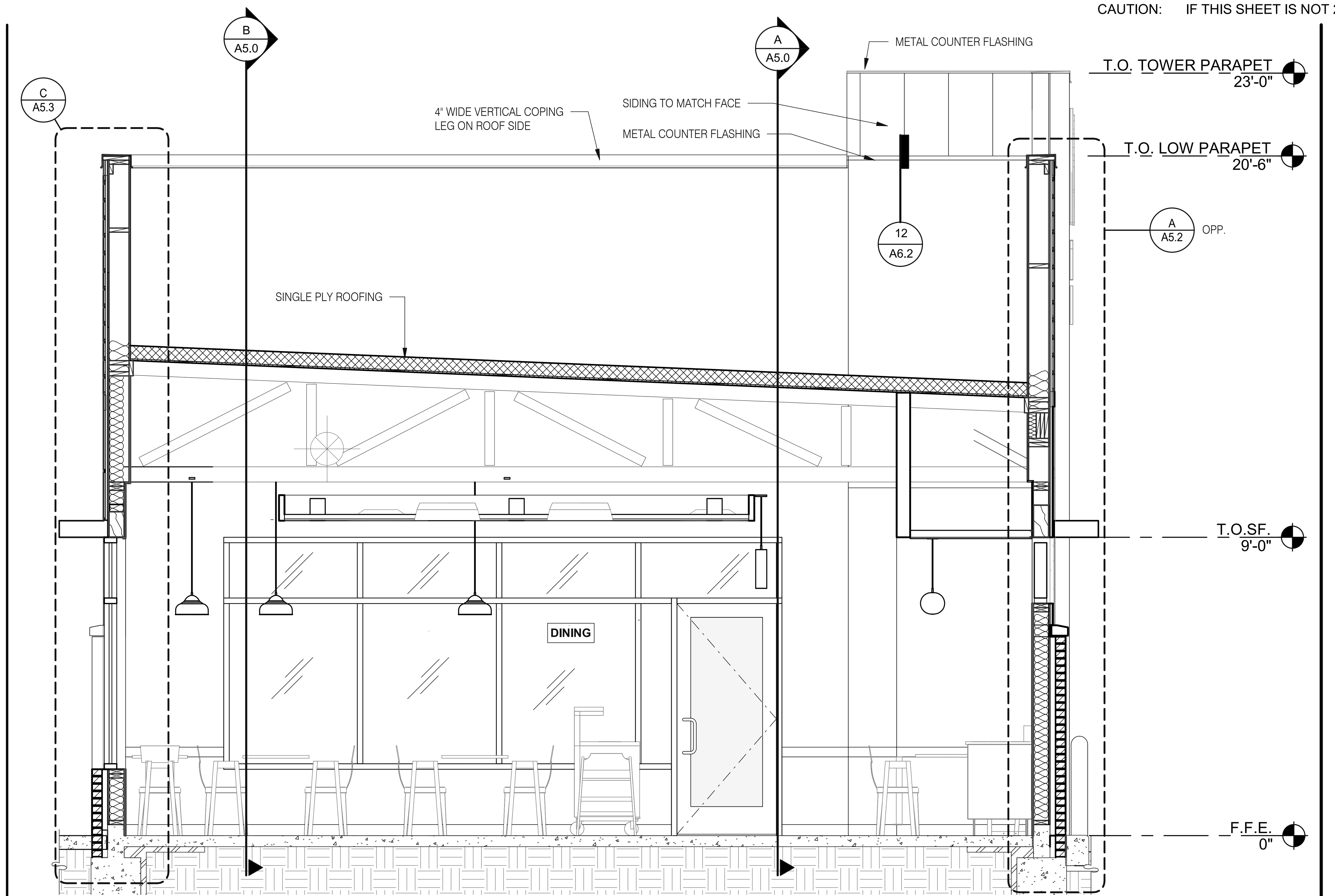
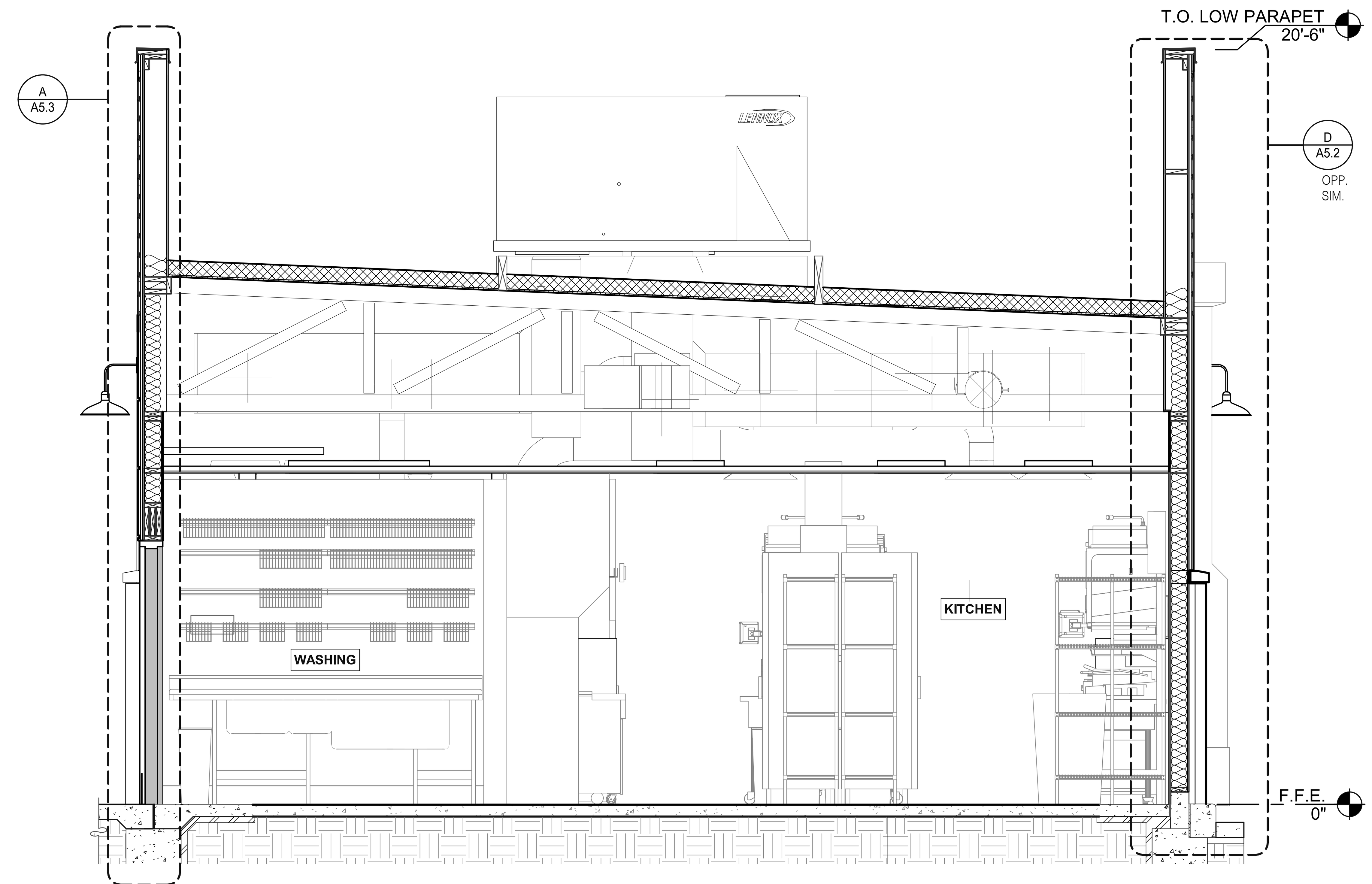
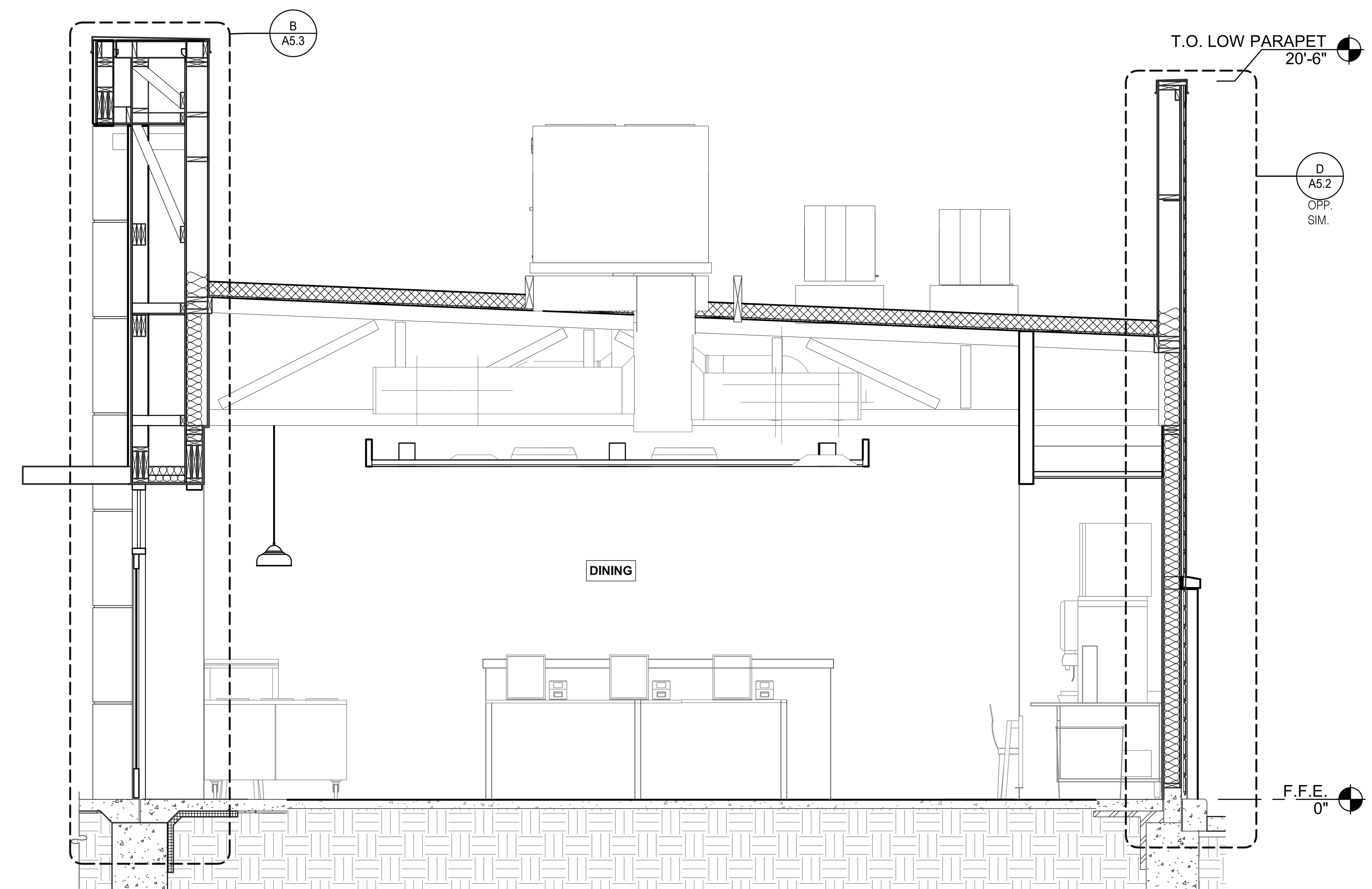


LEFT TO RIGHT BUILDING SECTION 5 3/8" = 1'-0" **A**



LEFT TO RIGHT BUILDING SECTION 3/8" = 1'-0" **D**



LEFT TO RIGHT BUILDING SECTION 3 3/8" = 1'-0" **B**

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SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

BUILDING SECTIONS

A5.1

PLOT DATE: 3/31/2022 1:02:29 PM

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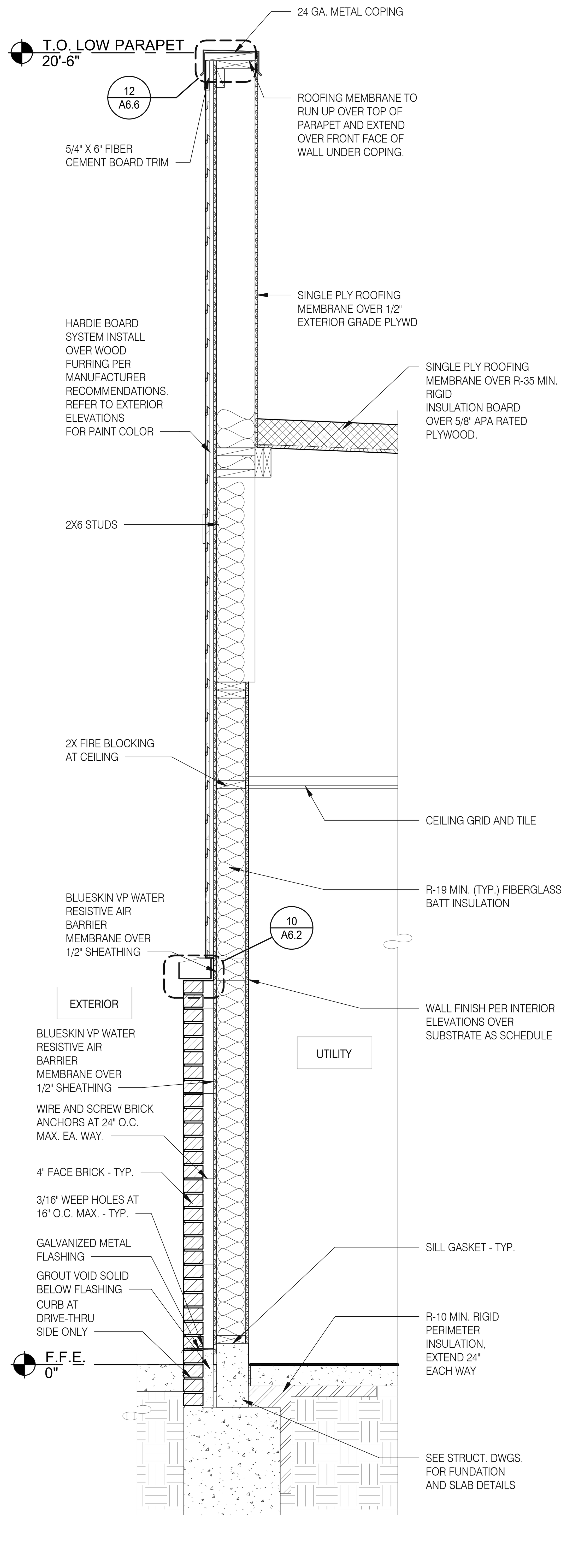
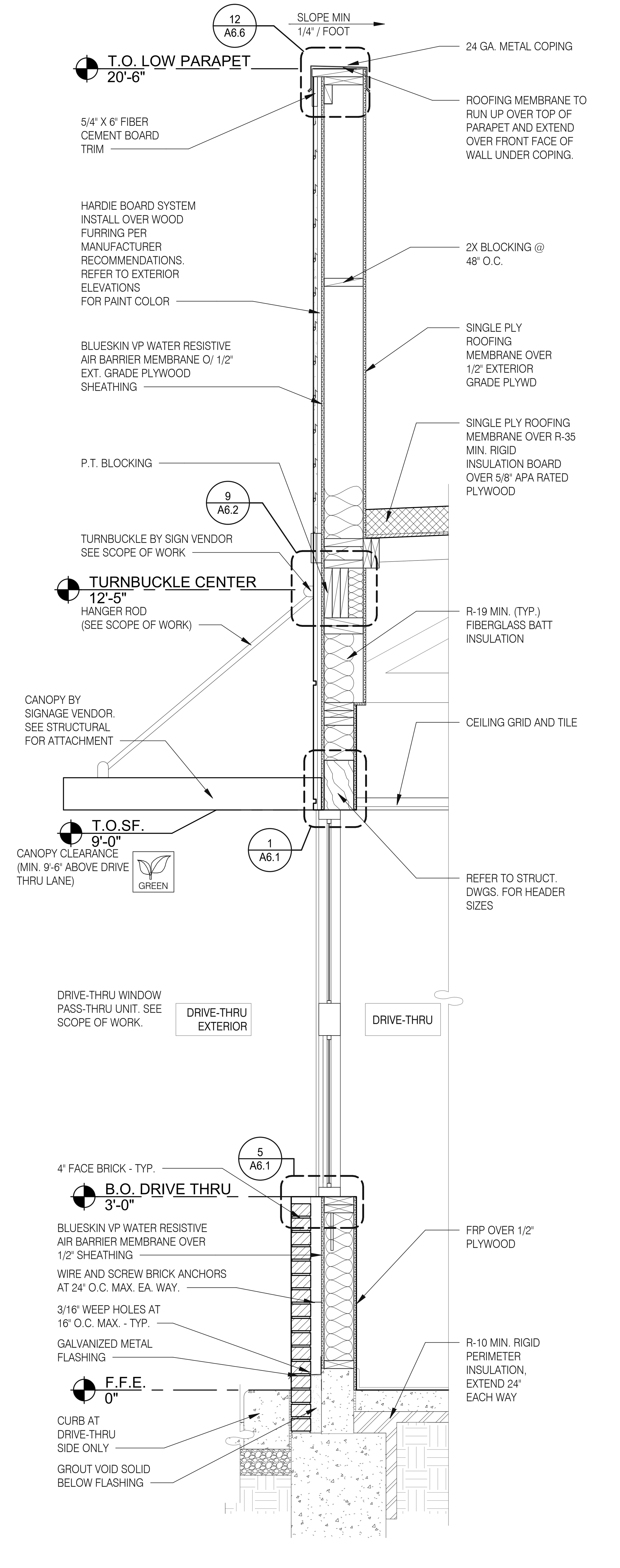
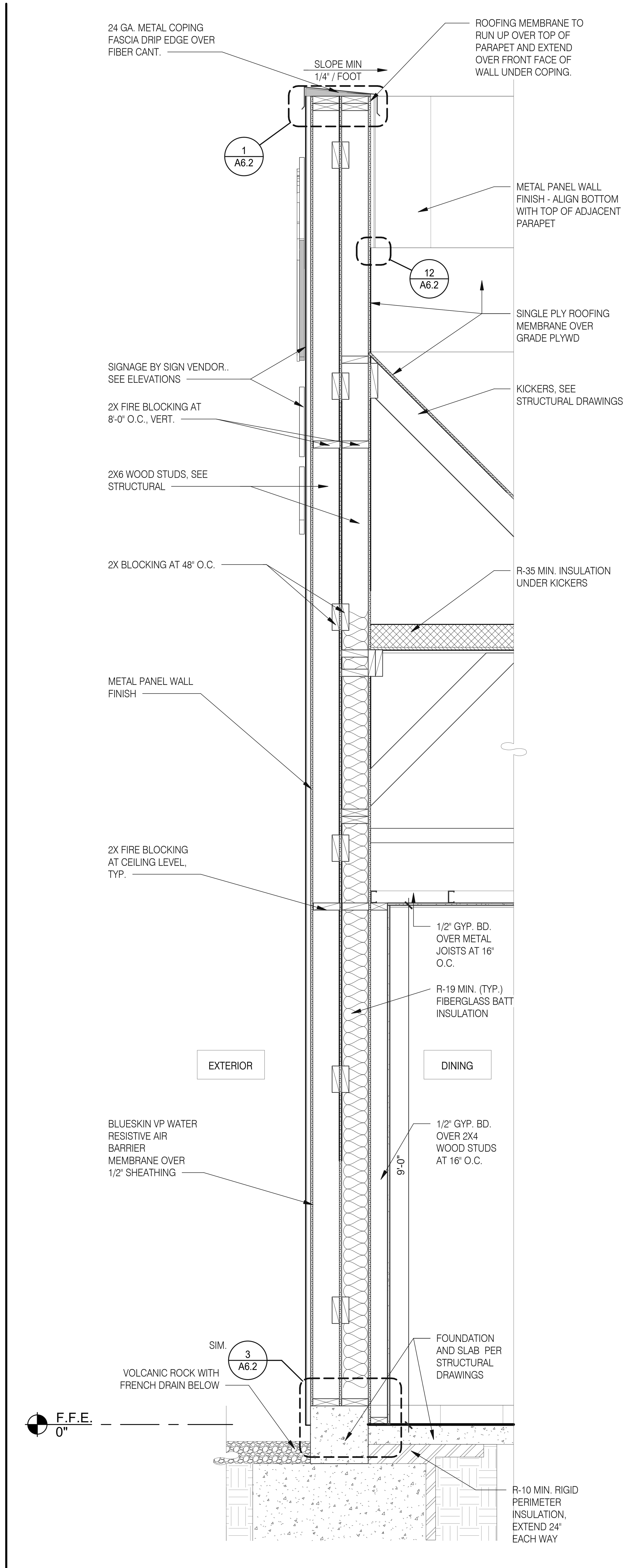


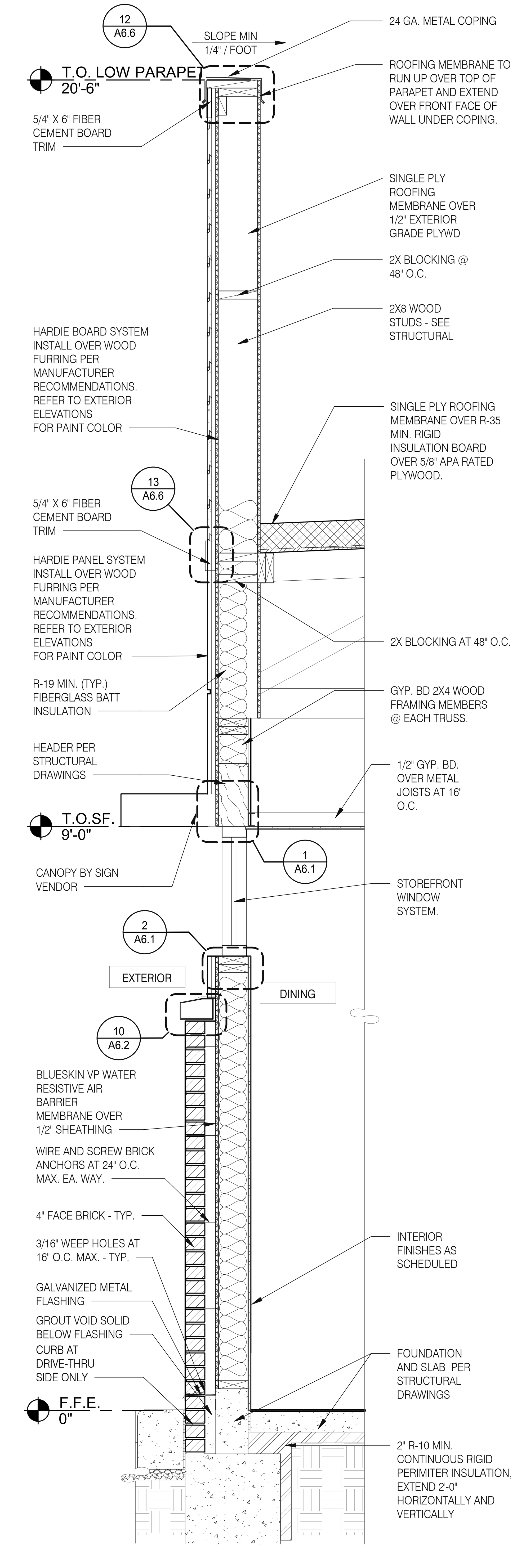
TYPICAL WALL SECTION 3/4" = 1'-0" **D**



WALL SECTION AT DRIVE THRU 3/4" = 1'-0" **C**



SECTION AT DINING - TOWER 3/4" = 1'-0" **B**



WALL SECTION AT DINING 3/4" = 1'-0" **A**

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TACO BELL

109 Tuckaseege Rd.
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ENDEAVOR 2.0

WALL SECTIONS

A5.2

PLOT DATE: 3/31/2022 1:02:34 PM

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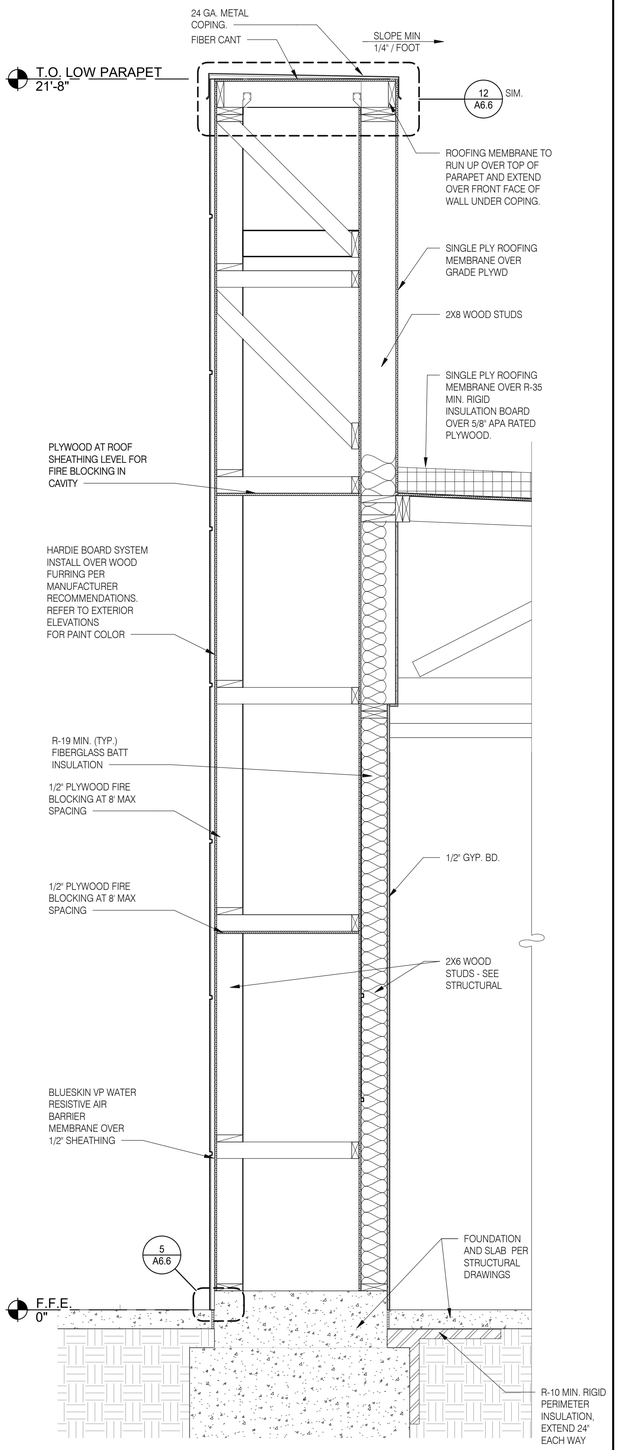
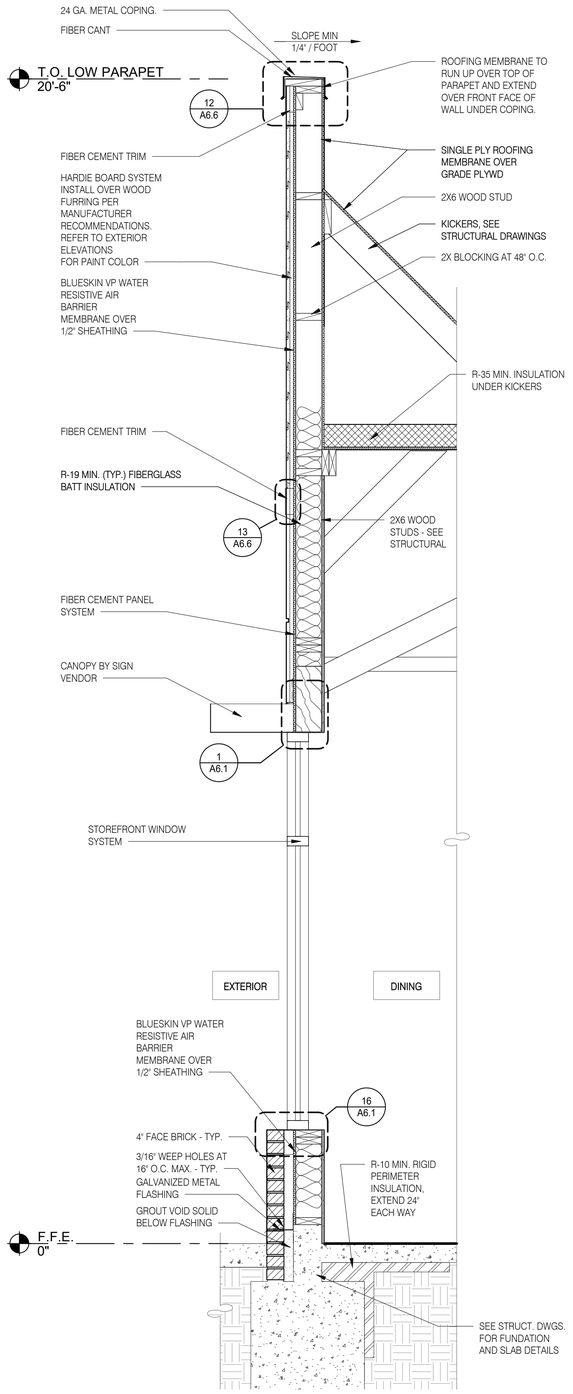
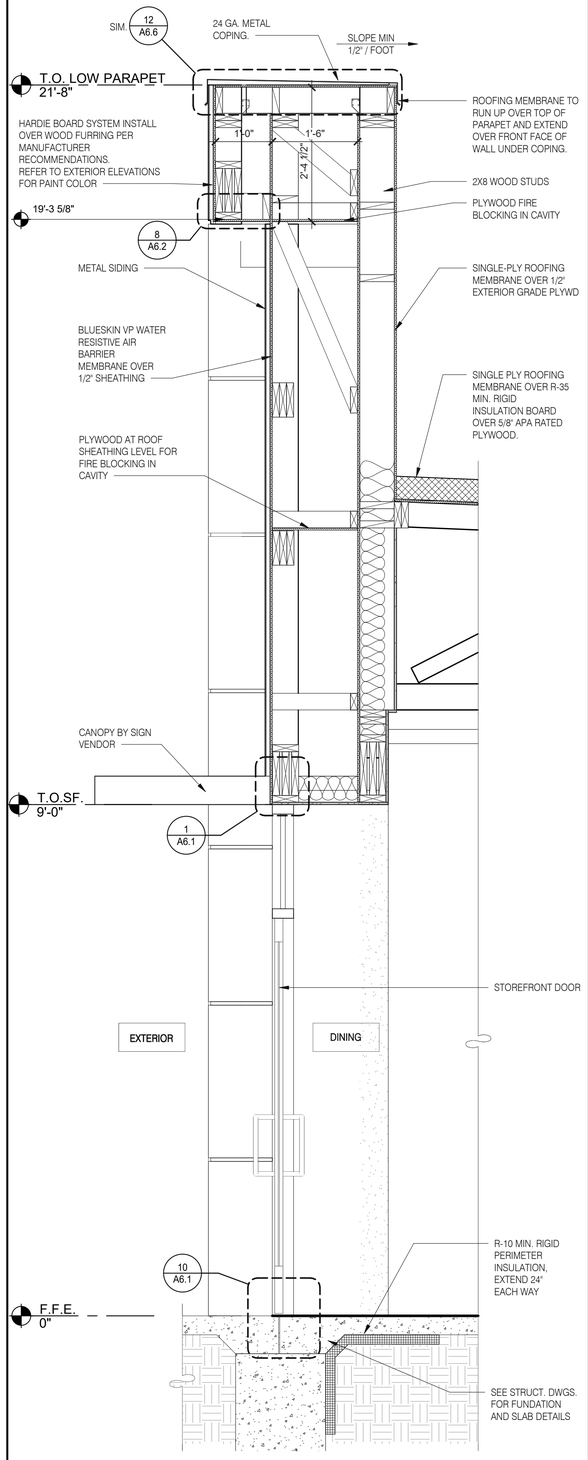


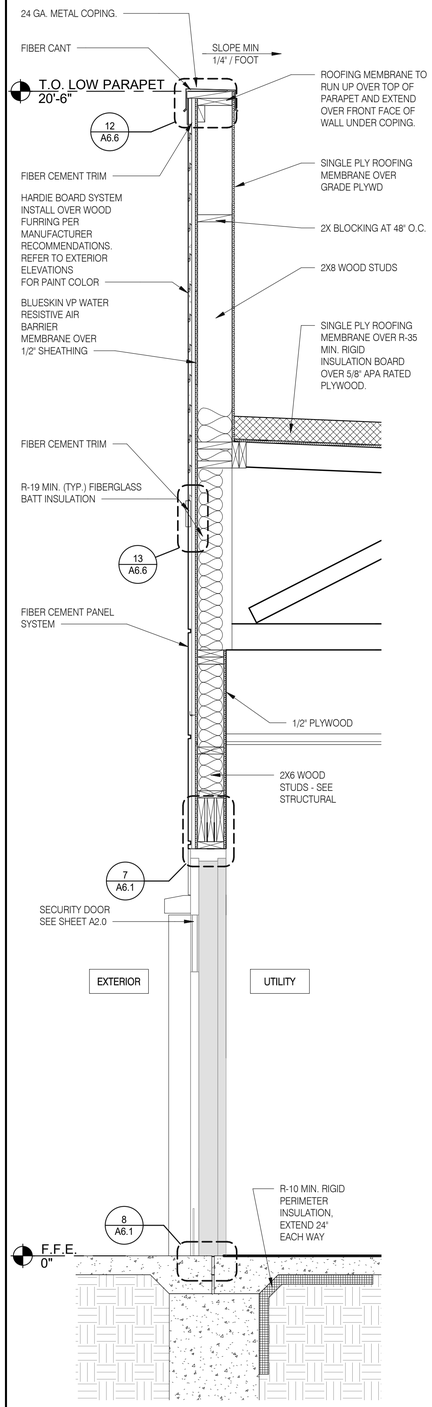
FRONT WALL SECTION 3/4" = 1'-0" | **D**



FRONT WALL SECTION 3/4" = 1'-0" | **C**



WALL SECTION AT DINING DOOR 3/4" = 1'-0" | **B**



WALL SECTION AT SERVICE DOOR 3/4" = 1'-0" | **A**

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PA/PM:	JW
DRAWN BY.:	RS
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TACO BELL

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ENDEAVOR 2.0
WALL SECTIONS

A5.3

PLOT DATE: 3/31/2022 1:02:36 PM

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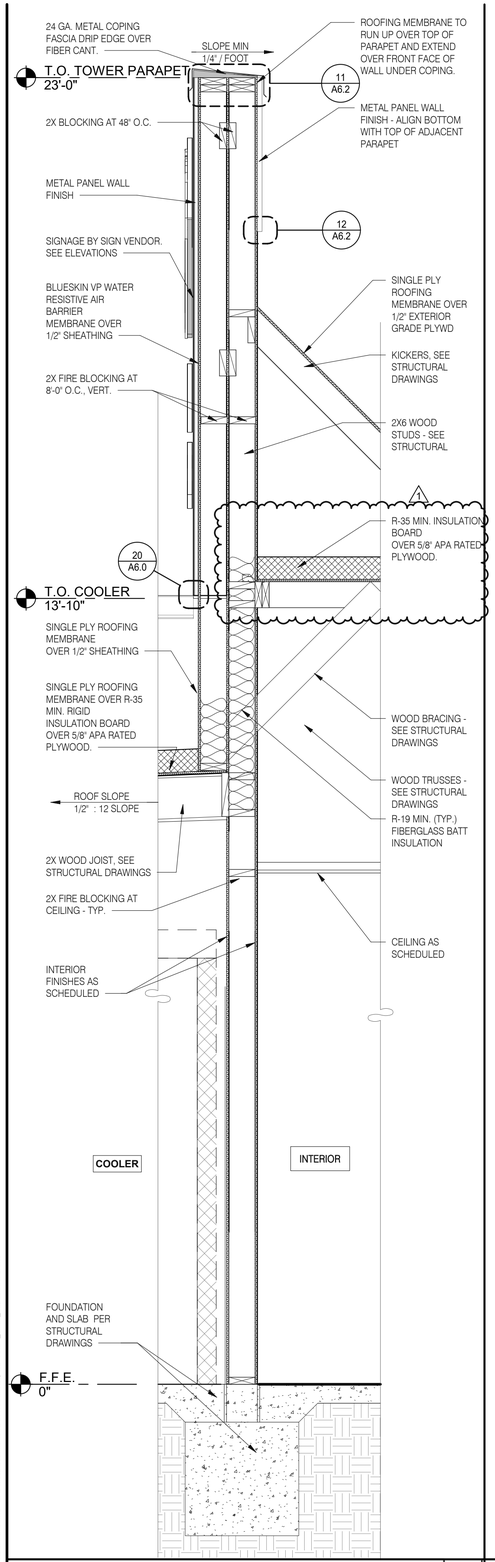
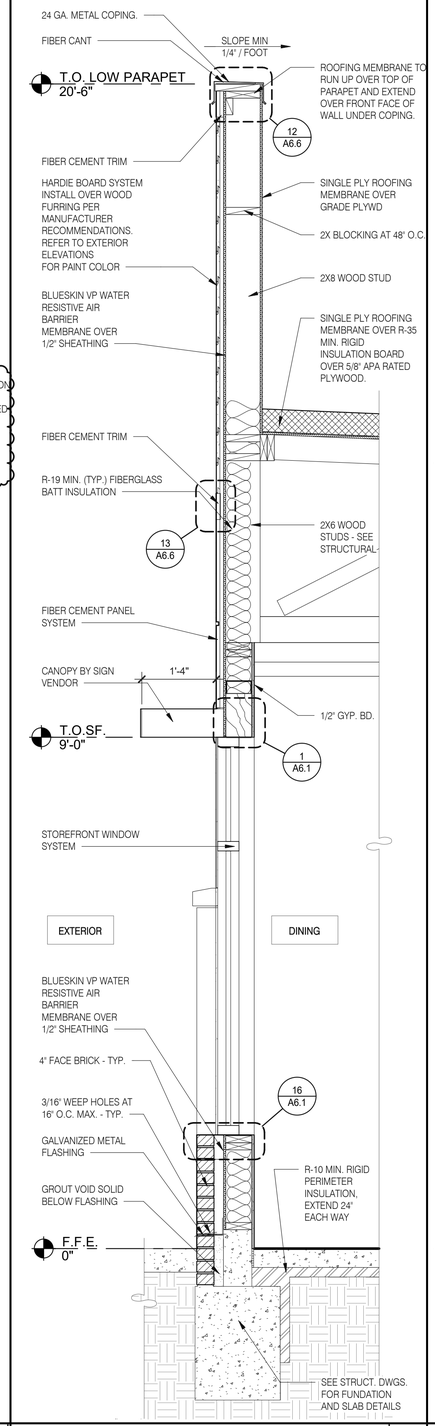
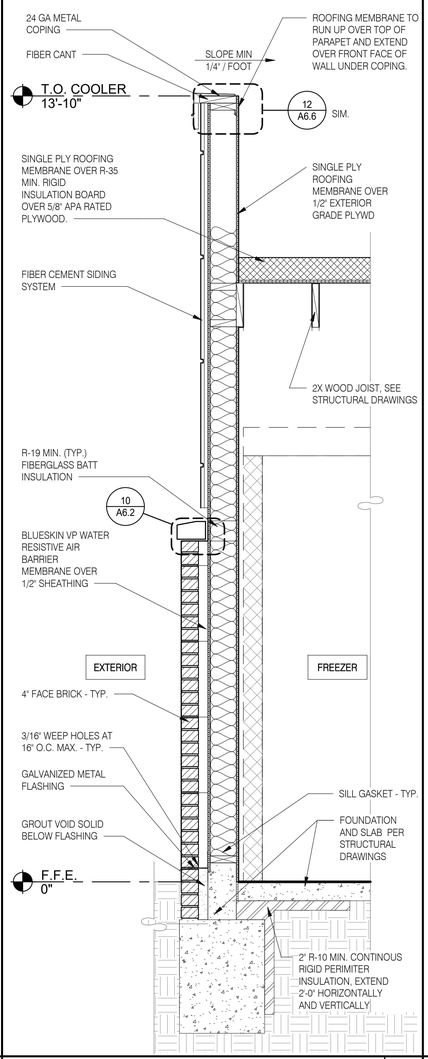


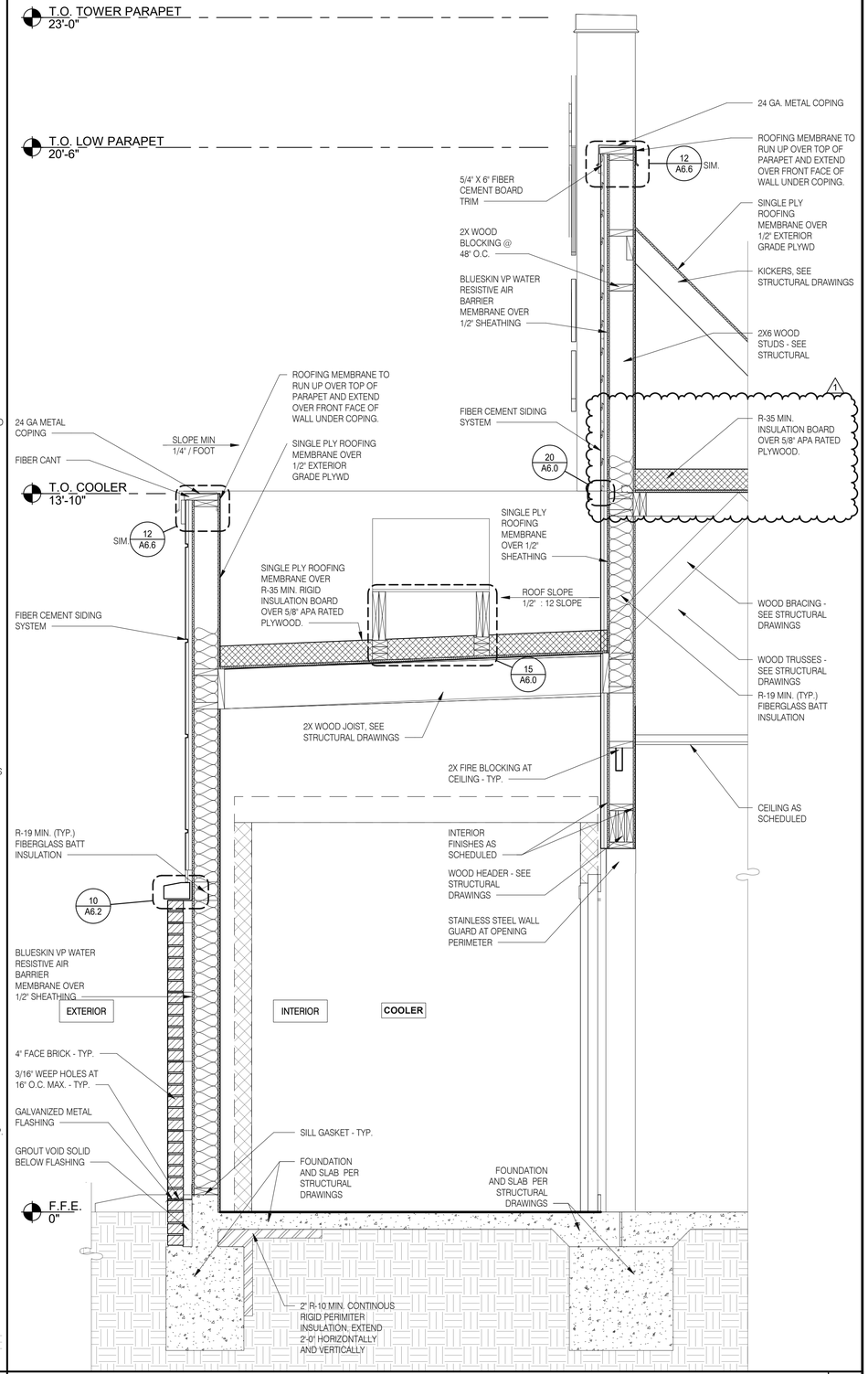
WALL SECTION AT REAR TOWER 3/4" = 1'-0" | **D**



WALL SECTION AT STOREFRONT 3/4" = 1'-0" | **C**



WALL SECTION 3/4" = 1'-0" | **B**



WALL SECTION AT COOLER 3/4" = 1'-0" | **A**

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PA/PM:	JW
DRAWN BY.:	RS
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TACO BELL

109 Tuckaseege Rd.
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ENDEAVOR 2.0
WALL SECTIONS

A5.4

PLOT DATE: 3/31/2022 1:02:38 PM

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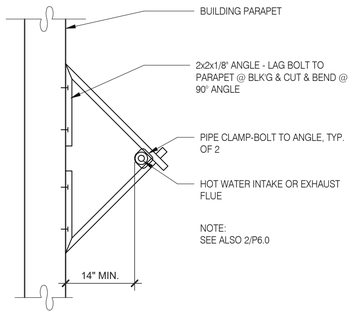
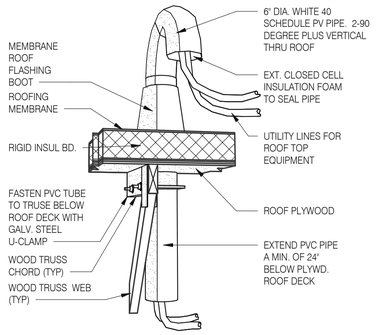
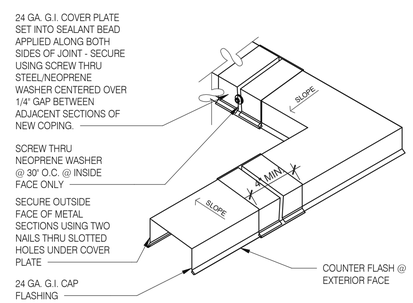


W.H. FLU / INTAKEN PIPE SUPPORT 3" = 1'-0" **13**

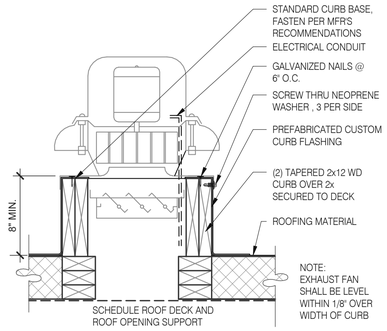


PIPE HOOD N.T.S. **9**

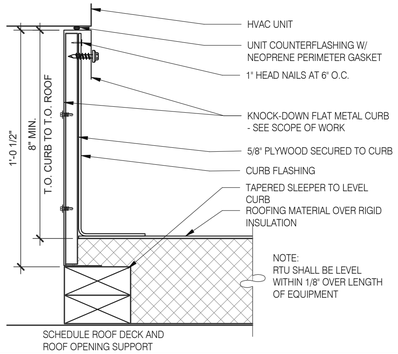


NOTE: JOINTS ARE TO OCCUR AT 10'-0" MAX.

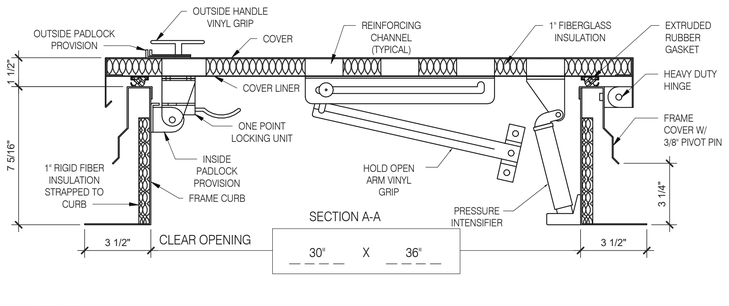
COPING JOINT N.T.S. **5**

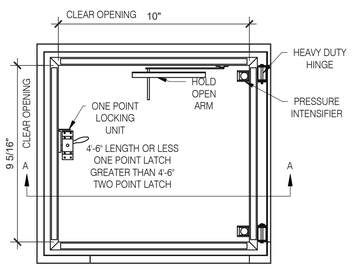


EXHAUST FAN CURB 3" = 1'-0" **18**



HVAC CURB 3" = 1'-0" **14**





HATCH MATERIAL:

GALVANIZED STEEL (PRIME PAINTED)
COVER - 14 GA. GALV STEEL
FRAME COVER - 14 GA. GALV STEEL
FRAME CURB - 14 GA. GALV STEEL
COVER LINER - 22 GA. GALV STEEL

HATCH FINISH:

GALV - PRIME PAINTED

MANUFACTURER:

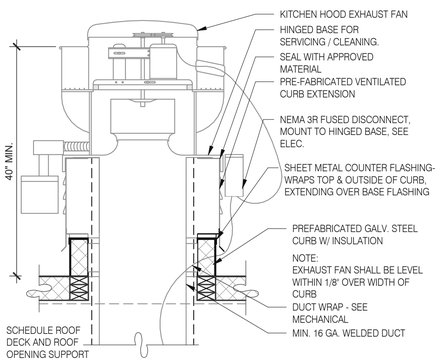
PRECISION LADDERS, LLC OR EQUAL

NOTES:

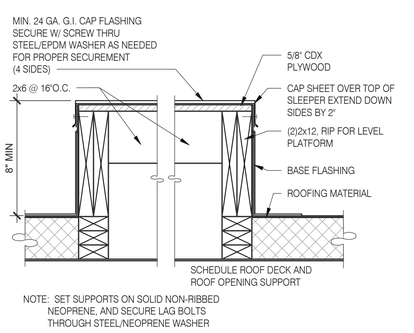
(1) ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS.

(2) FOR OPERATING EFFICIENCY, HATCH HARDWARE VARIES BY SIZE. EXAMPLE MODEL#: PH- A/G OPENING SIZE IN FEET-INCHES (PH-G2630)

ROOF LADDER AND HATCH 3" = 1'-0" **7**

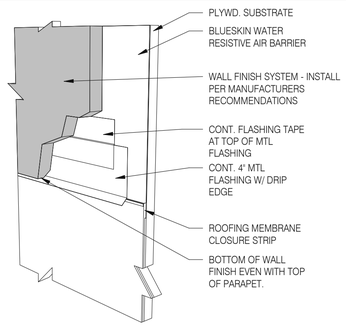


EXHAUST FAN CURB 3" = 1'-0" **19**

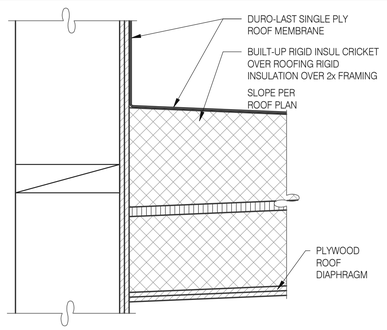


NOTE: SET SUPPORTS ON SOLID NON-RIBBED NEOPRENE, AND SECURE LAG BOLTS THROUGH STEEL/NEOPRENE WASHER

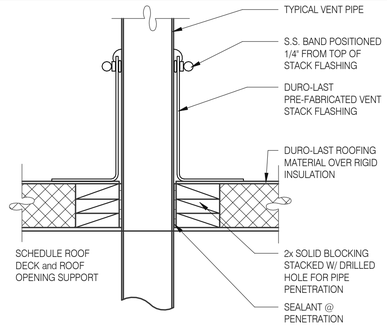
EQUIPMENT PLATFORM SUPPORT 3" = 1'-0" **15**



WALL FINISH TO BASE FLASHING 3" = 1'-0" **20**

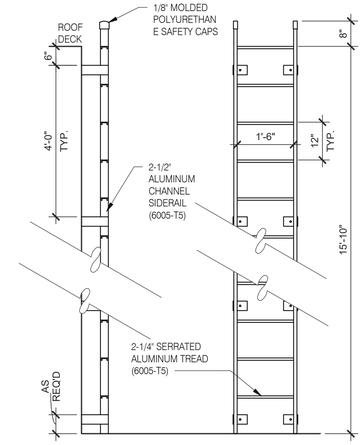


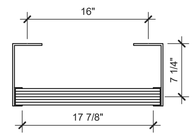
CRICKET 3" = 1'-0" **16**



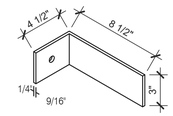
SEALED PIPE FLASHING 3" = 1'-0" **12**

NOTE: G.C. TO PROVIDE BLOCKING AND INSTALL THE LADDER.





PLAN



BRACKET DETAIL

ROOF LADDER N.T.S. **4**

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DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
CONSTRUCTION DETAILS ROOF

A6.0

PLOT DATE: 3/31/2022 1:02:41 PM

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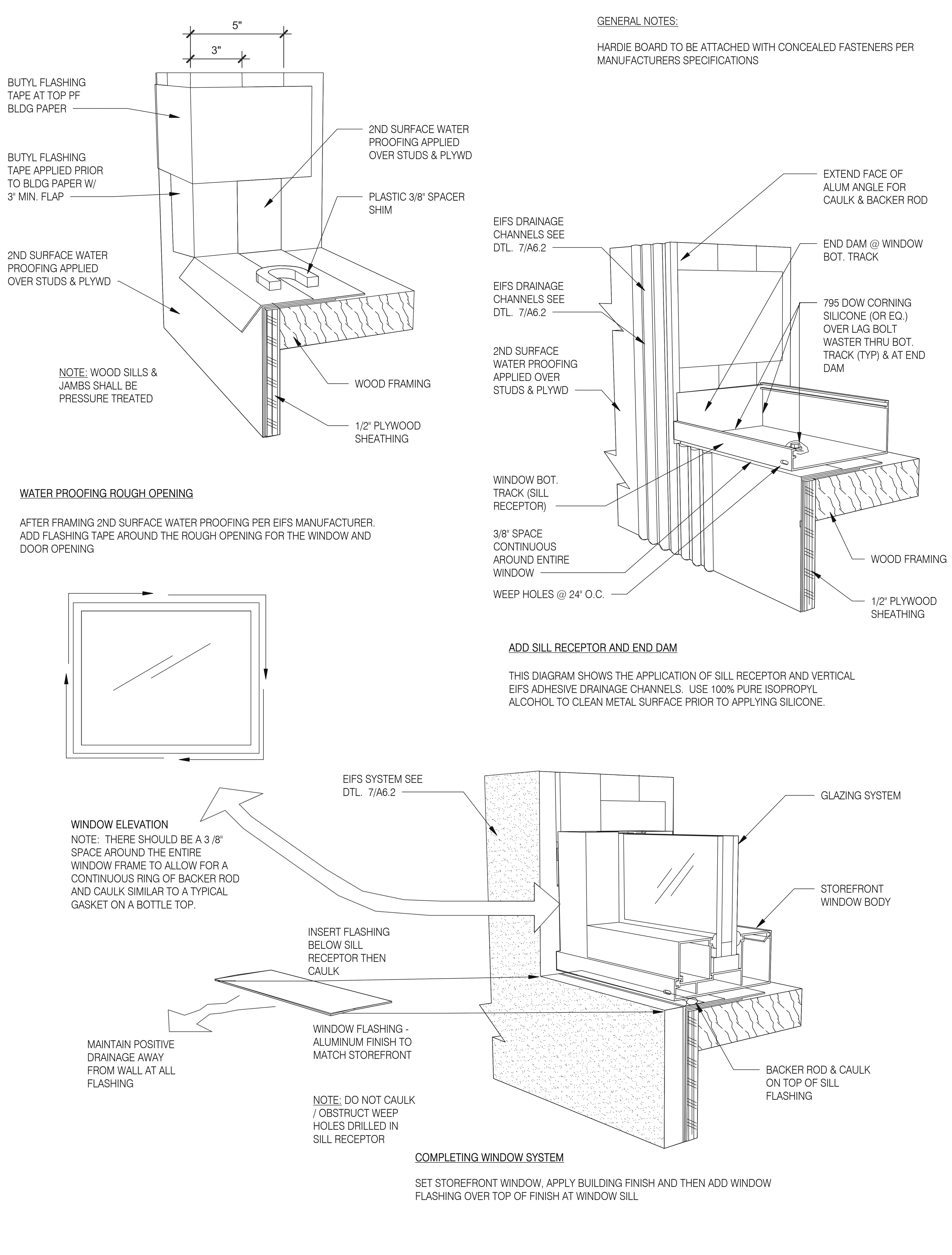
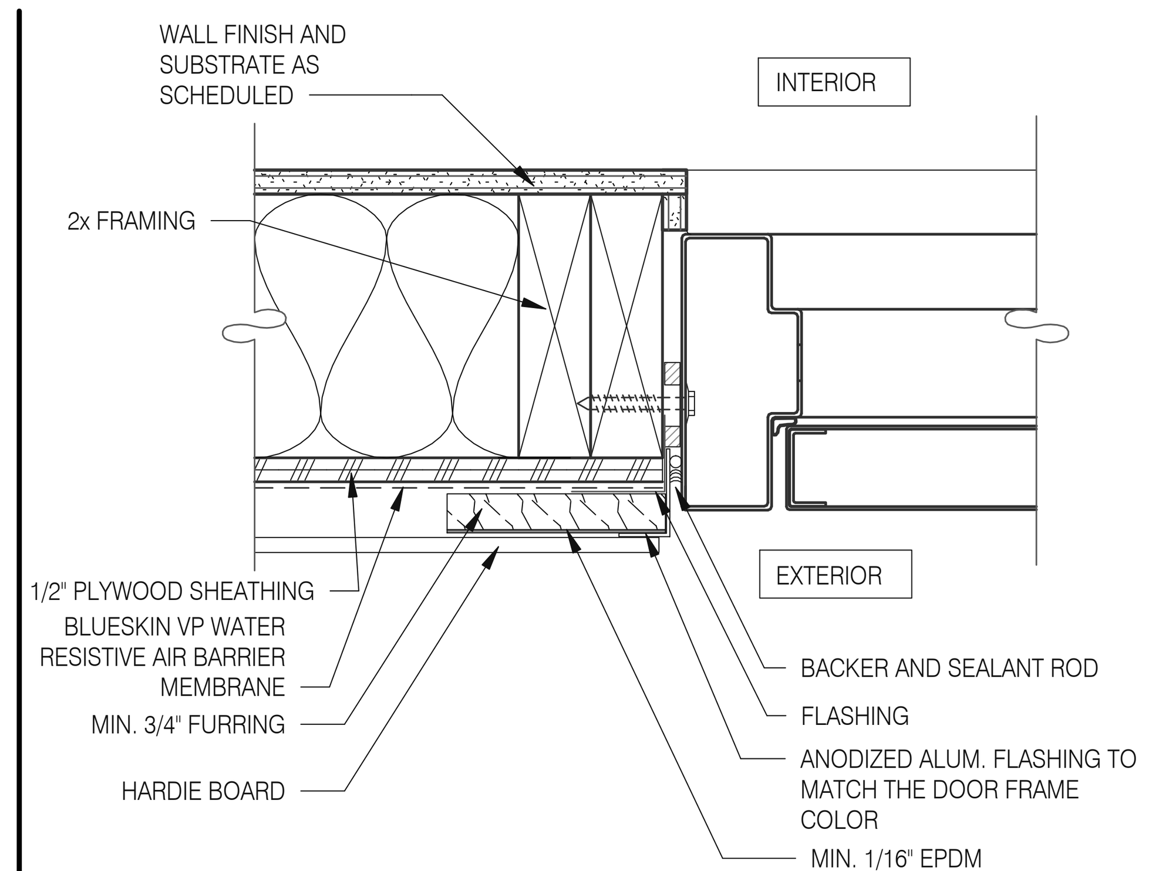
GENERAL NOTES:

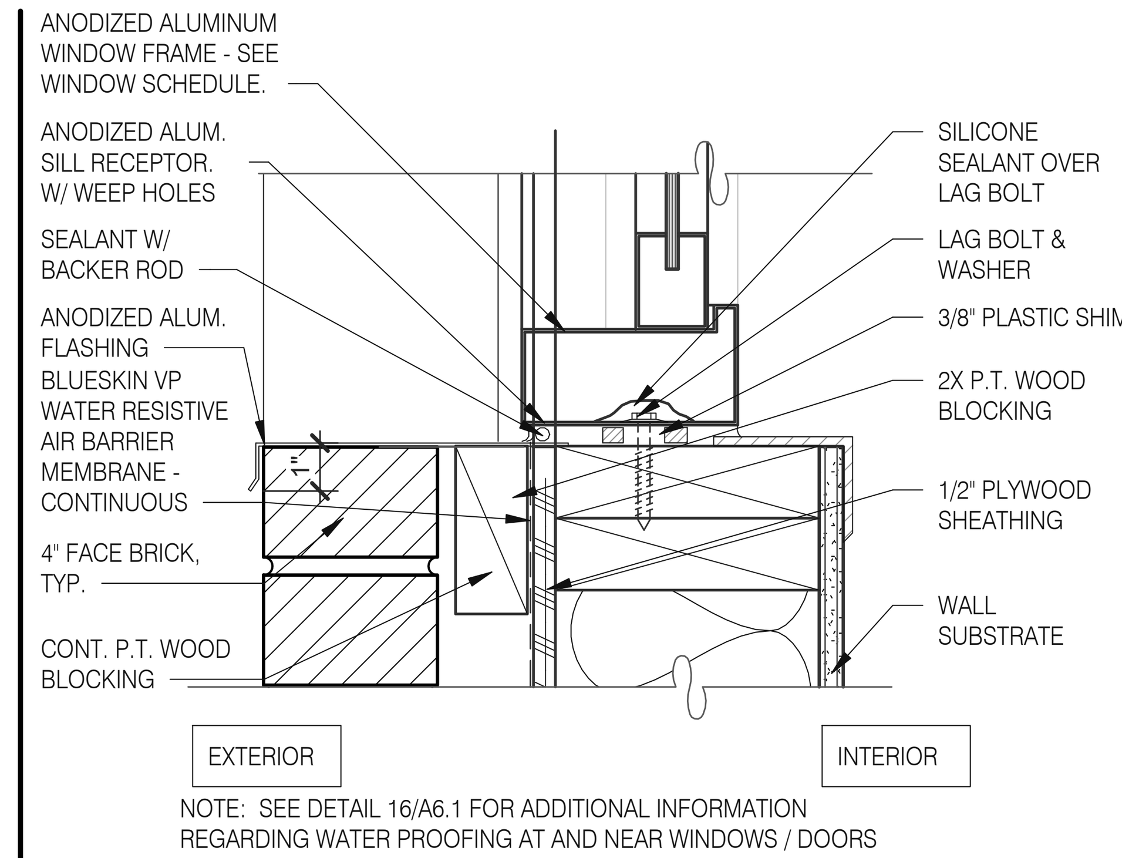
HARDIE BOARD TO BE ATTACHED WITH CONCEALED FASTENERS PER MANUFACTURERS SPECIFICATIONS


5"
3"
BUTYL FLASHING TAPE AT TOP PF BLDG PAPER
BUTYL FLASHING TAPE APPLIED PRIOR TO BLDG PAPER W/ 3" MIN. FLAP
2ND SURFACE WATER PROOFING APPLIED OVER STUDS & PLYWD
2ND SURFACE WATER PROOFING APPLIED OVER STUDS & PLYWD
PLASTIC 3/8" SPACER SHIM
WOOD FRAMING
1/2" PLYWOOD SHEATHING
NOTE: WOOD SILLS & JAMBS SHALL BE PRESSURE TREATED
WATER PROOFING ROUGH OPENING
AFTER FRAMING 2ND SURFACE WATER PROOFING PER EIFS MANUFACTURER. ADD FLASHING TAPE AROUND THE ROUGH OPENING FOR THE WINDOW AND DOOR OPENING
EIFS DRAINAGE CHANNELS SEE DTL. 7/A6.2
EIFS DRAINAGE CHANNELS SEE DTL. 7/A6.2
2ND SURFACE WATER PROOFING APPLIED OVER STUDS & PLYWD
WINDOW BOT. TRACK (SILL RECEPTOR)
3/8" SPACE CONTINUOUS AROUND ENTIRE WINDOW
WEEP HOLES @ 24" O.C.
EXTEND FACE OF ALUM ANGLE FOR CAULK & BACKER ROD
END DAM @ WINDOW BOT. TRACK
795 DOW CORNING SILICONE (OR EQ.) OVER LAG BOLT WASTER THRU BOT. TRACK (TYP) & AT END DAM
WOOD FRAMING
1/2" PLYWOOD SHEATHING
ADD SILL RECEPTOR AND END DAM
THIS DIAGRAM SHOWS THE APPLICATION OF SILL RECEPTOR AND VERTICAL EIFS ADHESIVE DRAINAGE CHANNELS. USE 100% PURE ISOPROPYL ALCOHOL TO CLEAN METAL SURFACE PRIOR TO APPLYING SILICONE.
WINDOW ELEVATION
NOTE: THERE SHOULD BE A 3 /8" SPACE AROUND THE ENTIRE WINDOW FRAME TO ALLOW FOR A CONTINUOUS RING OF BACKER ROD AND CAULK SIMILAR TO A TYPICAL GASKET ON A BOTTLE TOP.
EIFS SYSTEM SEE DTL. 7/A6.2
GLAZING SYSTEM
STOREFRONT WINDOW BODY
INSERT FLASHING BELOW SILL RECEPTOR THEN CAULK
MAINTAIN POSITIVE DRAINAGE AWAY FROM WALL AT ALL FLASHING
WINDOW FLASHING - ALUMINUM FINISH TO MATCH STOREFRONT
BACKER ROD & CAULK ON TOP OF SILL FLASHING
NOTE: DO NOT CAULK / OBSTRUCT WEEP HOLES DRILLED IN SILL RECEPTOR
COMPLETING WINDOW SYSTEM
SET STOREFRONT WINDOW, APPLY BUILDING FINISH AND THEN ADD WINDOW FLASHING OVER TOP OF FINISH AT WINDOW SILL

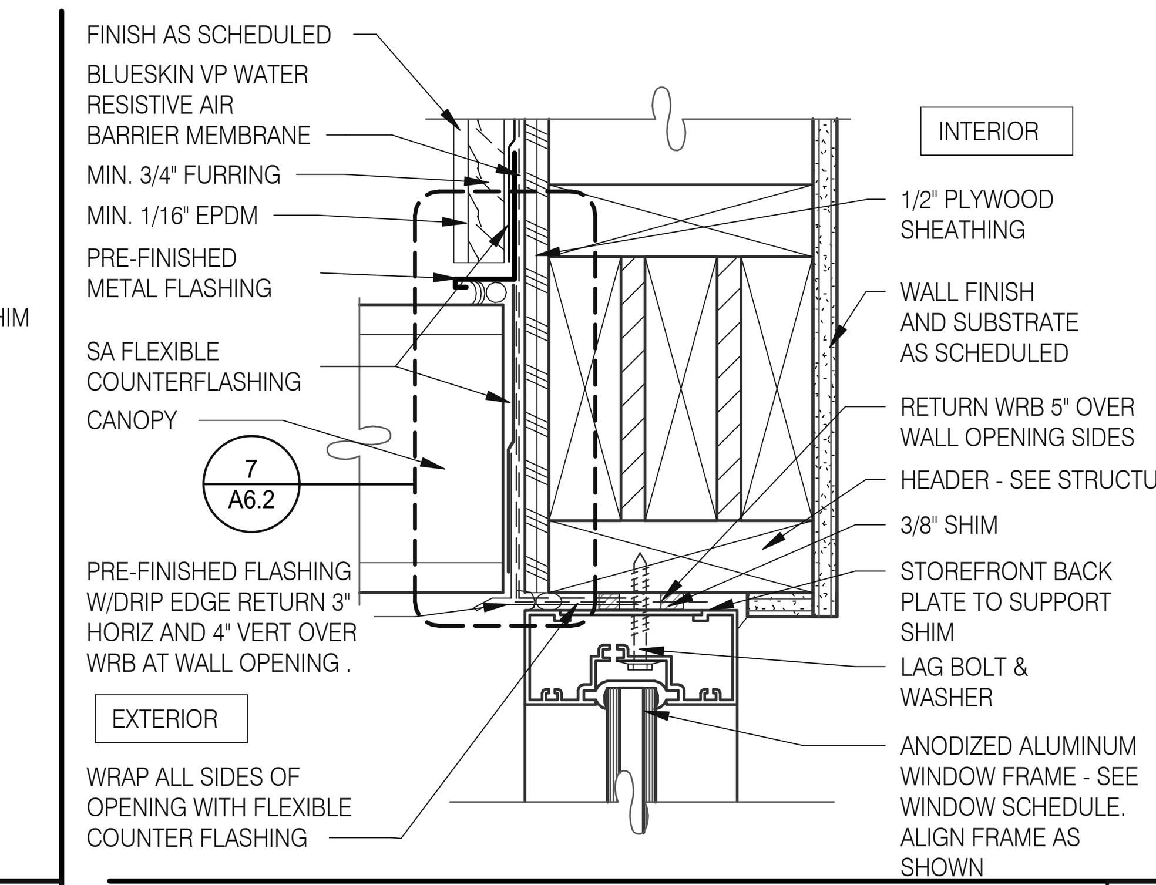
TYPICAL WINDOW WALL WATER PROOFING 3" = 1'-0" 14


WALL FINISH AND SUBSTRATE AS SCHEDULED
INTERIOR
2x FRAMING
EXTERIOR
1/2" PLYWOOD SHEATHING
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE
MIN. 3/4" FURRING
HARDIE BOARD
BACKER AND SEALANT ROD
FLASHING
ANODIZED ALUM. FLASHING TO MATCH THE DOOR FRAME COLOR
MIN. 1/16" EPDM

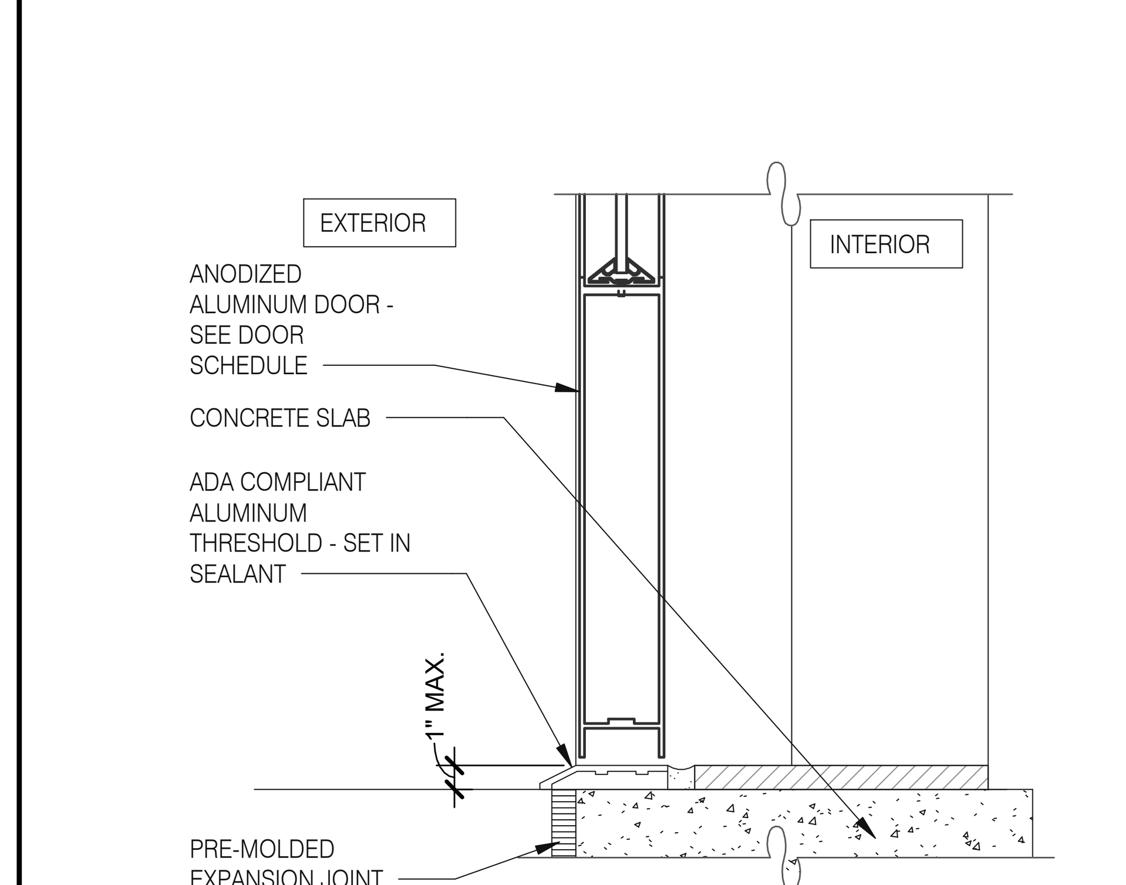
JAMB SERVICE DOOR 3" = 1'-0" 9


ANODIZED ALUMINUM WINDOW FRAME - SEE WINDOW SCHEDULE.
ANODIZED ALUM. SILL RECEPTOR. W/ WEEP HOLES
SEALANT W/ BACKER ROD
ANODIZED ALUM. FLASHING
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE - CONTINUOUS
4" FACE BRICK, TYP.
CONT. P.T. WOOD BLOCKING
SILICONE SEALANT OVER LAG BOLT
LAG BOLT & WASHER
3/8" PLASTIC SHIM
2X P.T. WOOD BLOCKING
1/2" PLYWOOD SHEATHING
WALL SUBSTRATE
EXTERIOR
INTERIOR
NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

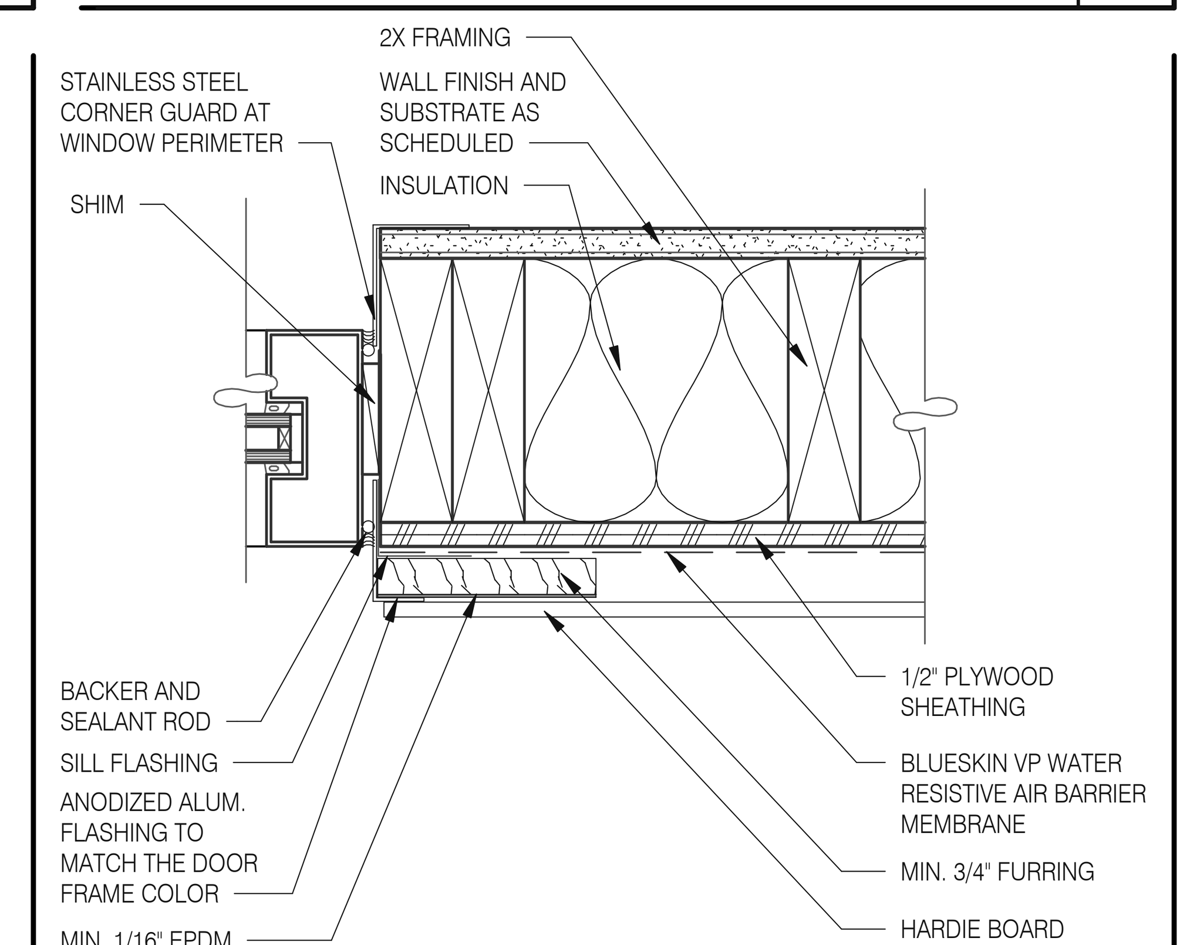
WINDOW SILL @ DRIVE THRU 3" = 1'-0" 5


FINISH AS SCHEDULED
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE
MIN. 3/4" FURRING
MIN. 1/16" EPDM
PRE-FINISHED METAL FLASHING
SA FLEXIBLE COUNTERFLASHING
CANOPY
7
A6.2
PRE-FINISHED FLASHING W/DRIP EDGE RETURN 3" HORIZ AND 4" VERT OVER WRB AT WALL OPENING .
EXTERIOR
WRAP ALL SIDES OF OPENING WITH FLEXIBLE COUNTER FLASHING
INTERIOR
1/2" PLYWOOD SHEATHING
WALL FINISH AND SUBSTRATE AS SCHEDULED
RETURN WRB 5" OVER WALL OPENING SIDES
HEADER - SEE STRUCTURAL
3/8" SHIM
STOREFRONT BACK PLATE TO SUPPORT SHIM
LAG BOLT & WASHER
ANODIZED ALUMINUM WINDOW FRAME - SEE WINDOW SCHEDULE. ALIGN FRAME AS SHOWN

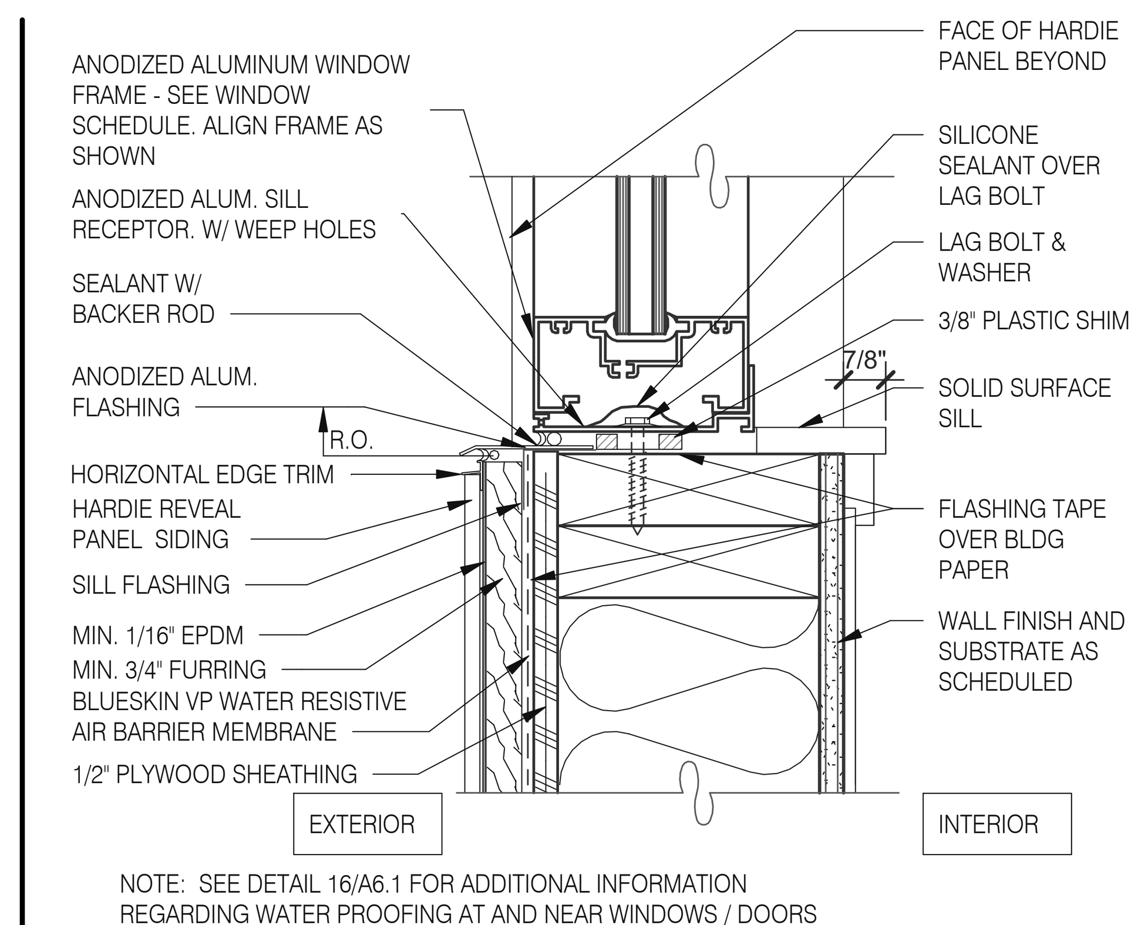
TYPICAL WINDOW HEAD W/ CANOPY 3" = 1'-0" 1



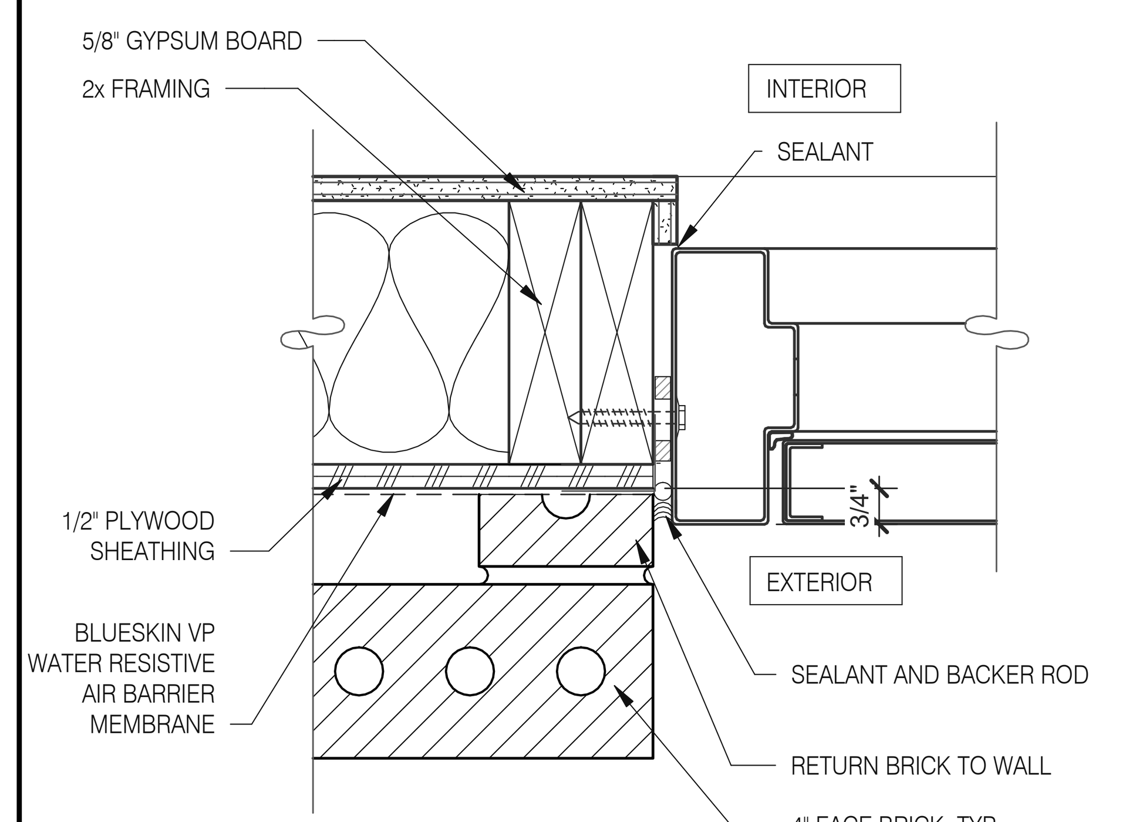
STOREFRONT DOOR SILL 3" = 1'-0" 10


STAINLESS STEEL CORNER GUARD AT WINDOW PERIMETER
SHIM
2X FRAMING
WALL FINISH AND SUBSTRATE AS SCHEDULED
INSULATION
BACKER AND SEALANT ROD
SILL FLASHING
ANODIZED ALUM. FLASHING TO MATCH THE DOOR FRAME COLOR
MIN. 1/16" EPDM
1/2" PLYWOOD SHEATHING
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE
MIN. 3/4" FURRING
HARDIE BOARD

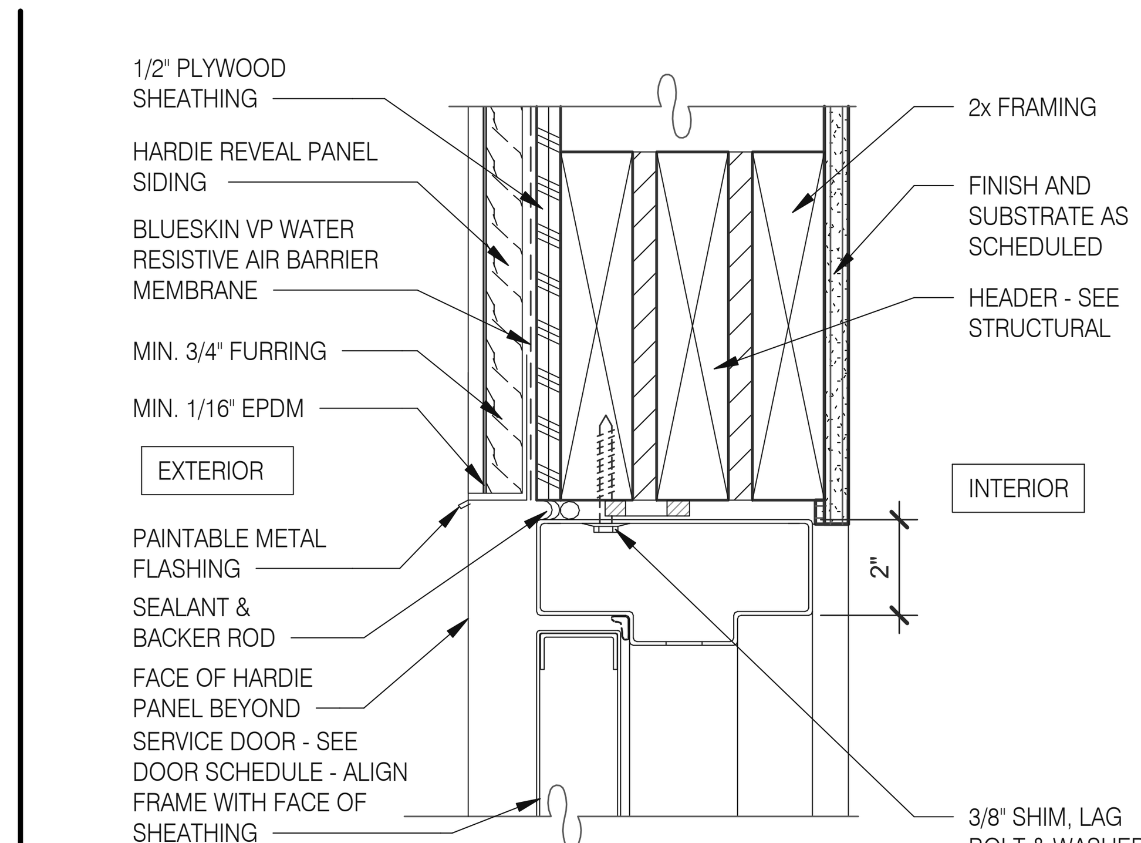
WINDOW JAMB @ DRIVE THRU 3" = 1'-0" 6


ANODIZED ALUMINUM WINDOW FRAME - SEE WINDOW SCHEDULE. ALIGN FRAME AS SHOWN
ANODIZED ALUM. SILL RECEPTOR. W/ WEEP HOLES
SEALANT W/ BACKER ROD
ANODIZED ALUM. FLASHING
R.O.
HORIZONTAL EDGE TRIM
HARDIE REVEAL PANEL SIDING
SILL FLASHING
MIN. 1/16" EPDM
MIN. 3/4" FURRING
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE
1/2" PLYWOOD SHEATHING
FACE OF HARDIE PANEL BEYOND
SILICONE SEALANT OVER LAG BOLT
LAG BOLT & WASHER
3/8" PLASTIC SHIM
7/8"
SOLID SURFACE SILL
FLASHING TAPE OVER BLDG PAPER
WALL FINISH AND SUBSTRATE AS SCHEDULED
EXTERIOR
INTERIOR
NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

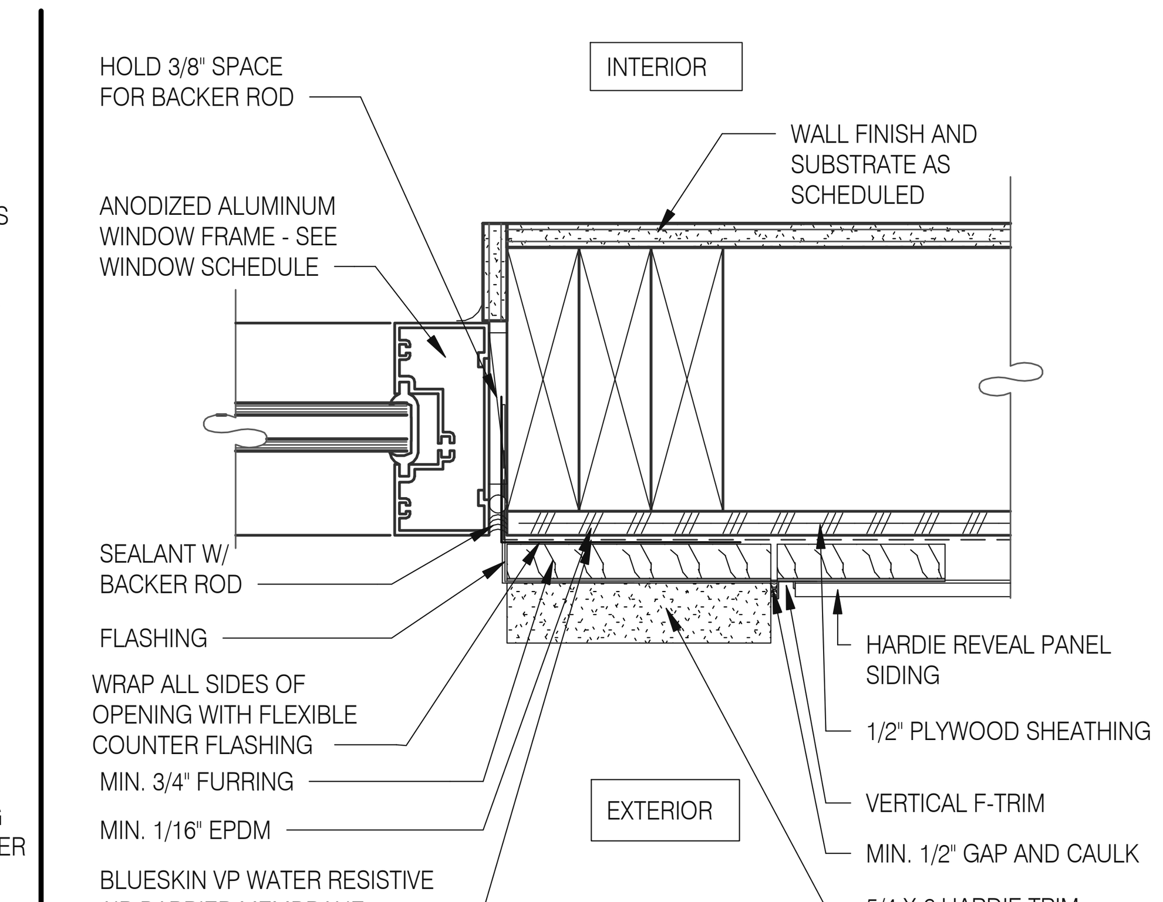
TYPICAL WINDOW SILL 3" = 1'-0" 2



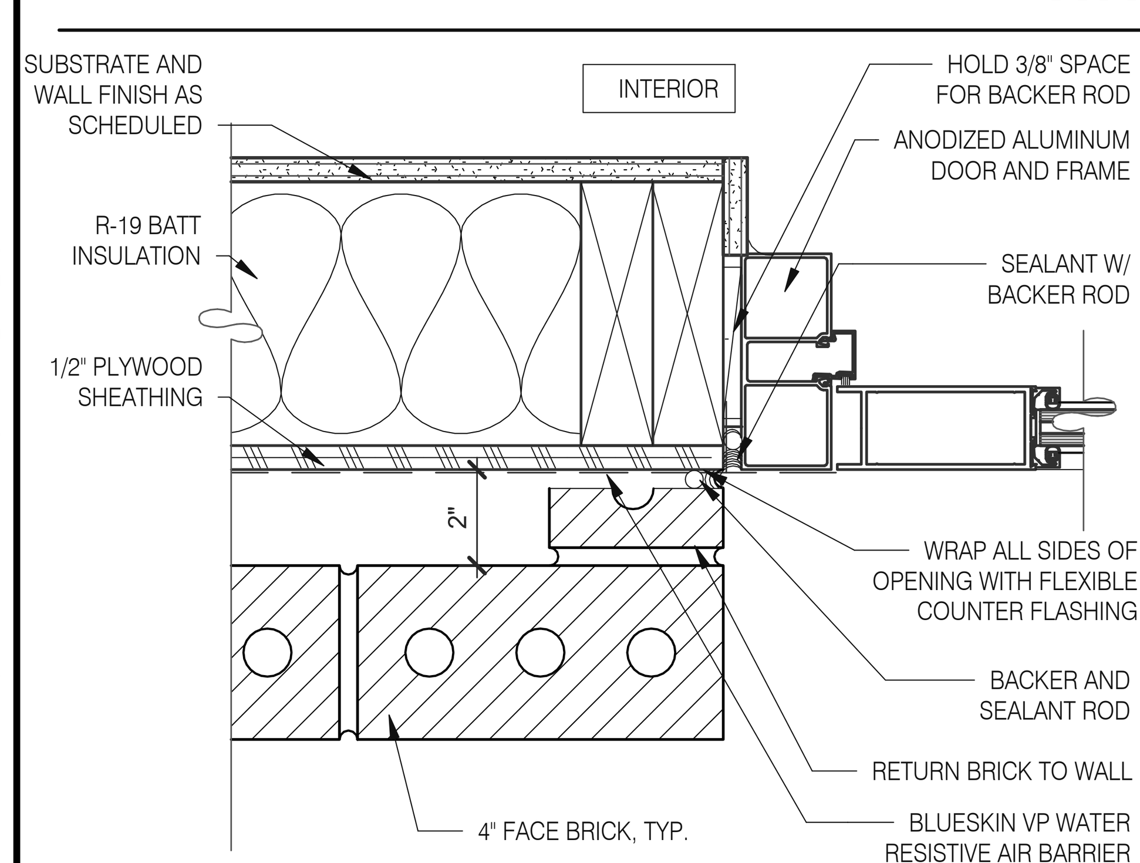
BRICK JAMB @ SERVICE DOOR 3" = 1'-0" 11


1/2" PLYWOOD SHEATHING
HARDIE REVEAL PANEL SIDING
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE
MIN. 3/4" FURRING
MIN. 1/16" EPDM
EXTERIOR
PAINTABLE METAL FLASHING
SEALANT & BACKER ROD
FACE OF HARDIE PANEL BEYOND
SERVICE DOOR - SEE DOOR SCHEDULE - ALIGN FRAME WITH FACE OF SHEATHING
2x FRAMING
FINISH AND SUBSTRATE AS SCHEDULED
HEADER - SEE STRUCTURAL
INTERIOR
2"
3/8" SHIM, LAG BOLT & WASHER

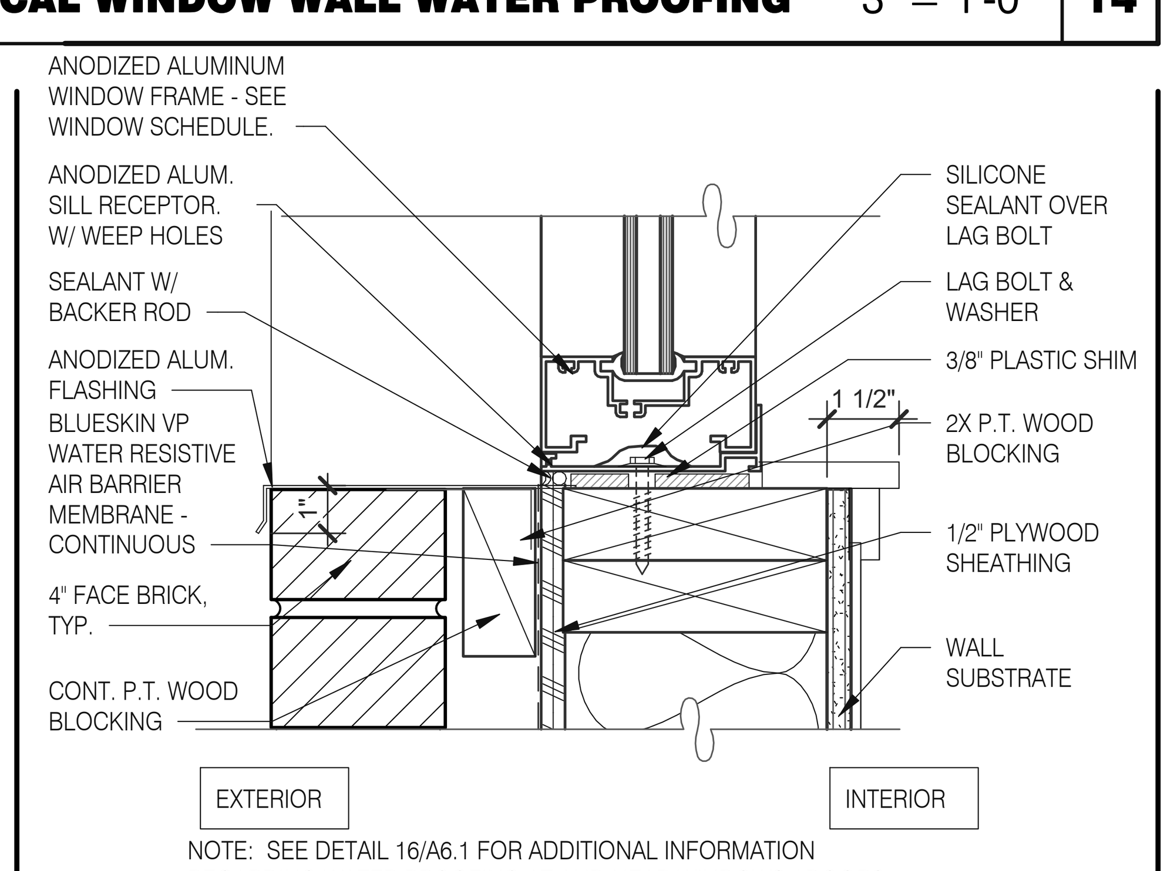
HEAD/ JAMB @ SERVICE DOOR 3" = 1'-0" 7


HOLD 3/8" SPACE FOR BACKER ROD
INTERIOR
WALL FINISH AND SUBSTRATE AS SCHEDULED
ANODIZED ALUMINUM WINDOW FRAME - SEE WINDOW SCHEDULE
SEALANT W/ BACKER ROD
FLASHING
WRAP ALL SIDES OF OPENING WITH FLEXIBLE COUNTER FLASHING
MIN. 3/4" FURRING
MIN. 1/16" EPDM
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE
HARDIE REVEAL PANEL SIDING
1/2" PLYWOOD SHEATHING
EXTERIOR
VERTICAL F-TRIM
MIN. 1/2" GAP AND CAULK
5/4 X 6 HARDIE TRIM

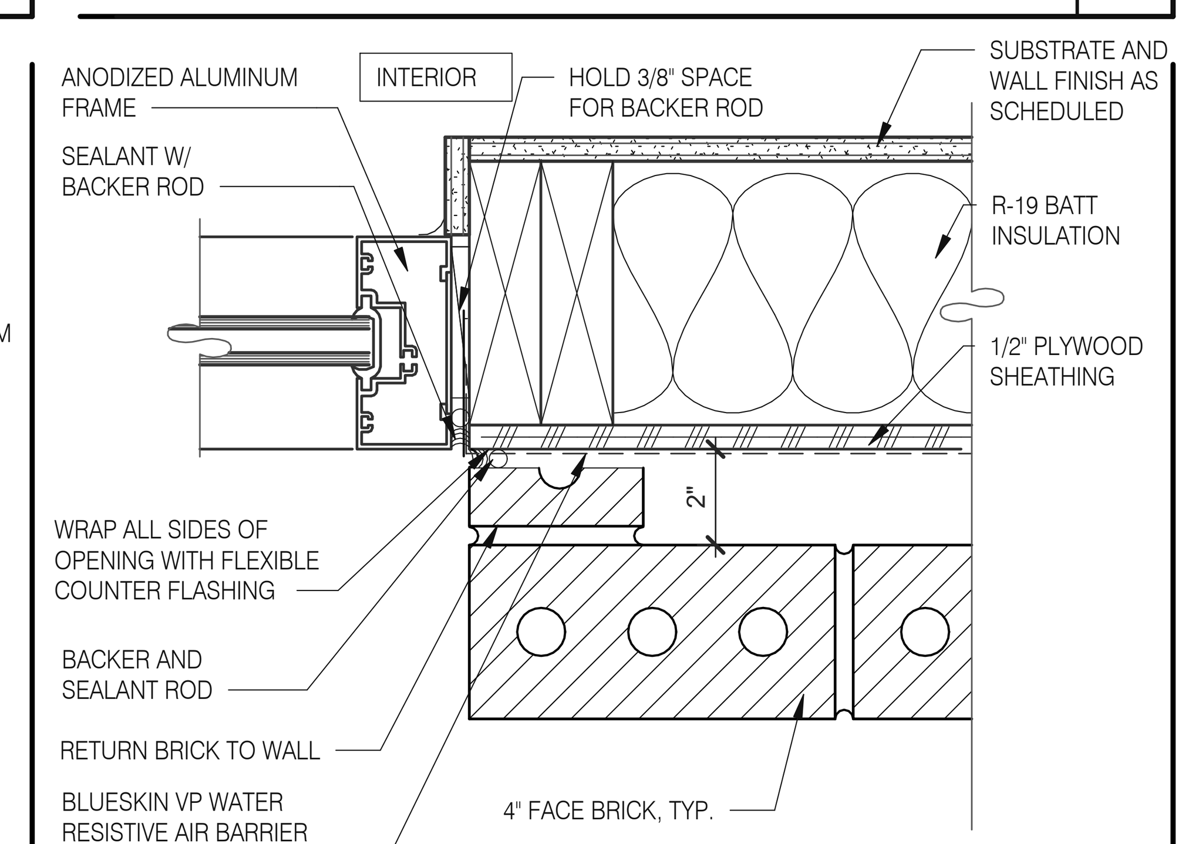
TYPICAL WINDOW JAMB 3" = 1'-0" 3


SUBSTRATE AND WALL FINISH AS SCHEDULED
INTERIOR
R-19 BATT INSULATION
1/2" PLYWOOD SHEATHING
2"
HOLD 3/8" SPACE FOR BACKER ROD
ANODIZED ALUMINUM DOOR AND FRAME
SEALANT W/ BACKER ROD
WRAP ALL SIDES OF OPENING WITH FLEXIBLE COUNTER FLASHING
BACKER AND SEALANT ROD
RETURN BRICK TO WALL
4" FACE BRICK, TYP.
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE

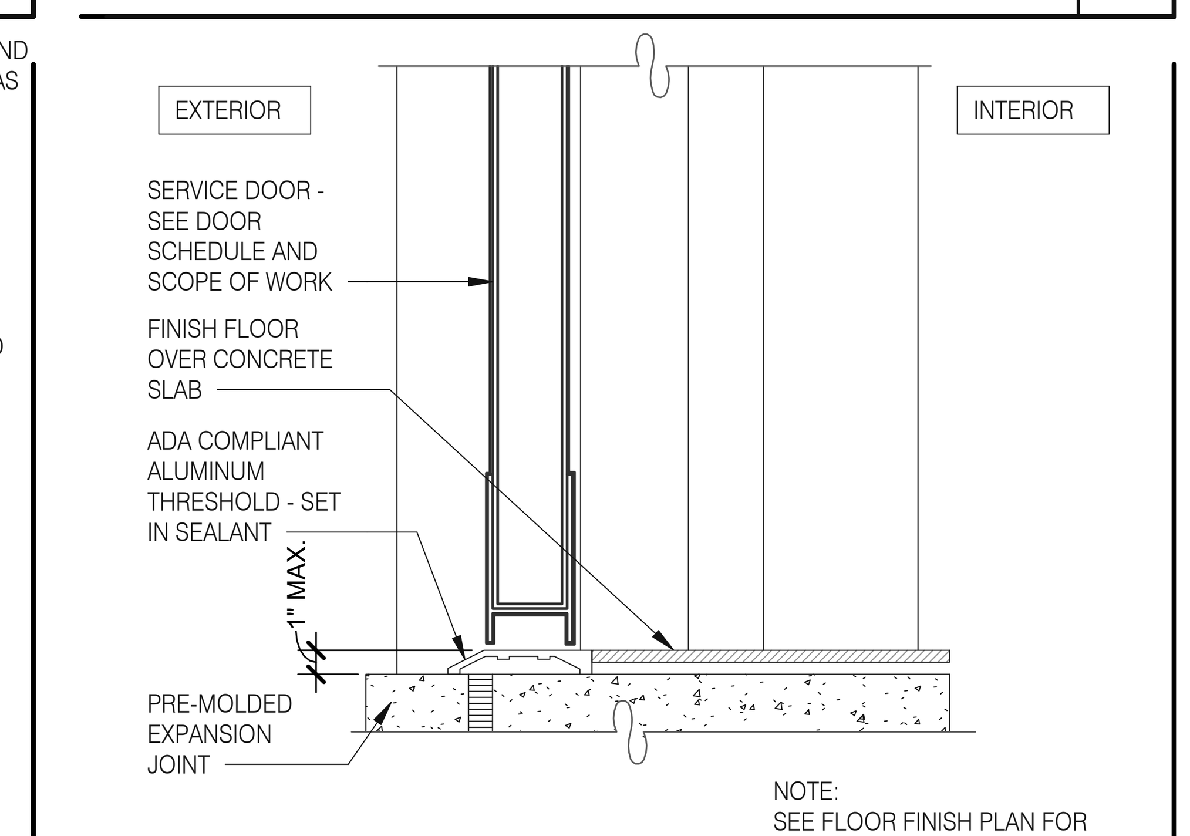
BRICK DOOR JAMB 3" = 1'-0" 20


ANODIZED ALUMINUM WINDOW FRAME - SEE WINDOW SCHEDULE.
ANODIZED ALUM. SILL RECEPTOR. W/ WEEP HOLES
SEALANT W/ BACKER ROD
ANODIZED ALUM. FLASHING
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE - CONTINUOUS
4" FACE BRICK, TYP.
CONT. P.T. WOOD BLOCKING
SILICONE SEALANT OVER LAG BOLT
LAG BOLT & WASHER
3/8" PLASTIC SHIM
1 1/2"
2X P.T. WOOD BLOCKING
1/2" PLYWOOD SHEATHING
WALL SUBSTRATE
EXTERIOR
INTERIOR
NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

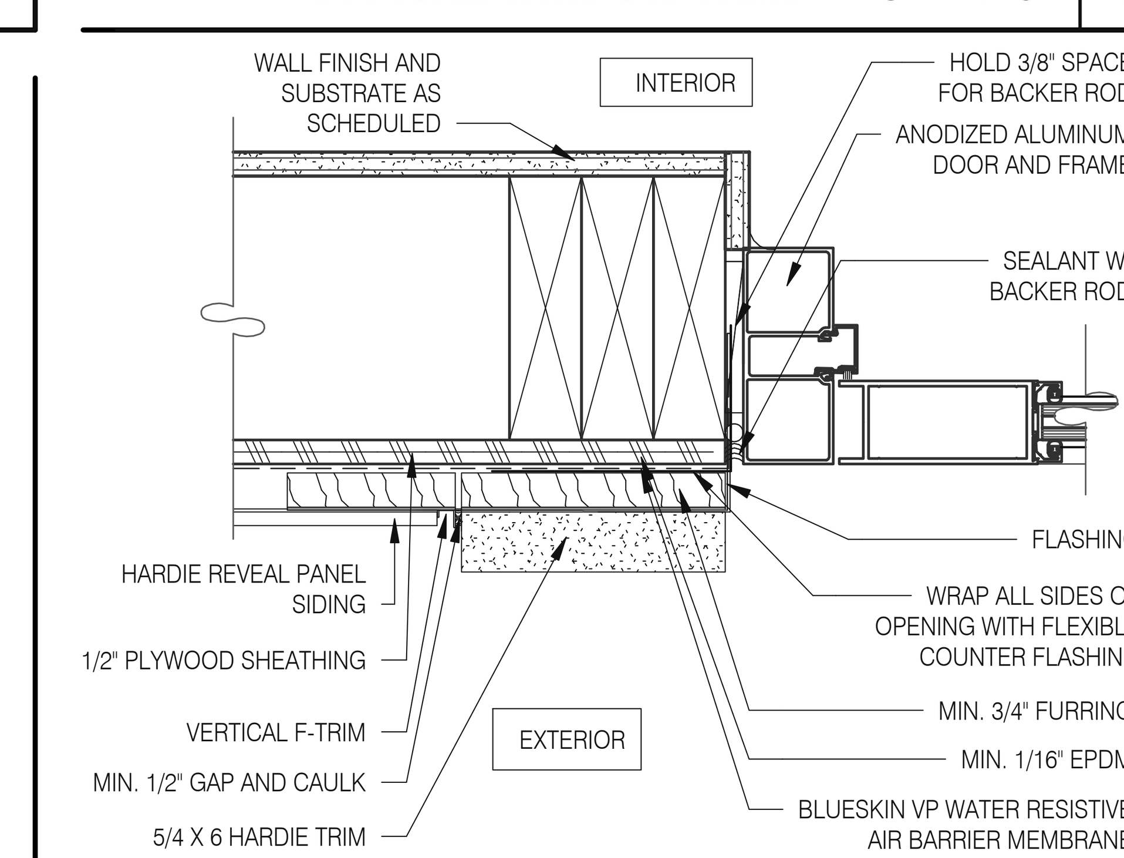
BRICK WINDOW SILL 3" = 1'-0" 16


ANODIZED ALUMINUM FRAME
INTERIOR
HOLD 3/8" SPACE FOR BACKER ROD
SEALANT W/ BACKER ROD
SUBSTRATE AND WALL FINISH AS SCHEDULED
R-19 BATT INSULATION
1/2" PLYWOOD SHEATHING
2"
WRAP ALL SIDES OF OPENING WITH FLEXIBLE COUNTER FLASHING
BACKER AND SEALANT ROD
RETURN BRICK TO WALL
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE
4" FACE BRICK, TYP.

BRICK WINDOW JAMB 3" = 1'-0" 12



THRESHOLD @ SERVICE DOOR 3" = 1'-0" 8


WALL FINISH AND SUBSTRATE AS SCHEDULED
INTERIOR
HOLD 3/8" SPACE FOR BACKER ROD
ANODIZED ALUMINUM DOOR AND FRAME
SEALANT W/ BACKER ROD
FLASHING
HARDIE REVEAL PANEL SIDING
WRAP ALL SIDES OF OPENING WITH FLEXIBLE COUNTER FLASHING
1/2" PLYWOOD SHEATHING
EXTERIOR
MIN. 3/4" FURRING
VERTICAL F-TRIM
MIN. 1/16" EPDM
MIN. 1/2" GAP AND CAULK
BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE
5/4 X 6 HARDIE TRIM

DOOR JAMB 3" = 1'-0" 4

GPD Engineering and Architecture Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

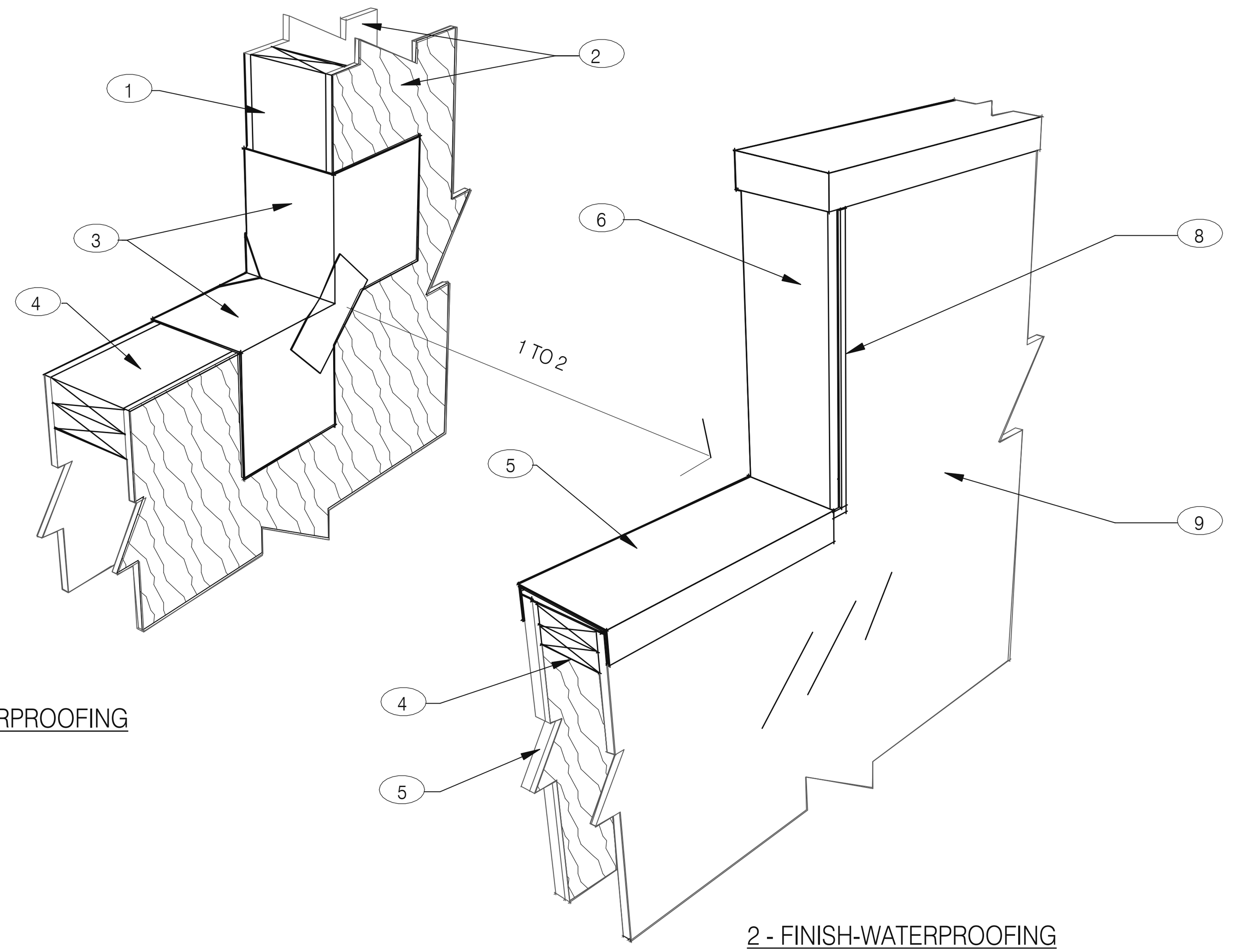
ENDEAVOR 2.0

CONSTRUCTION DETAILS DOOR/WINDOW

A6.1

PLOT DATE: 3/31/2022 1:02:43 PM

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

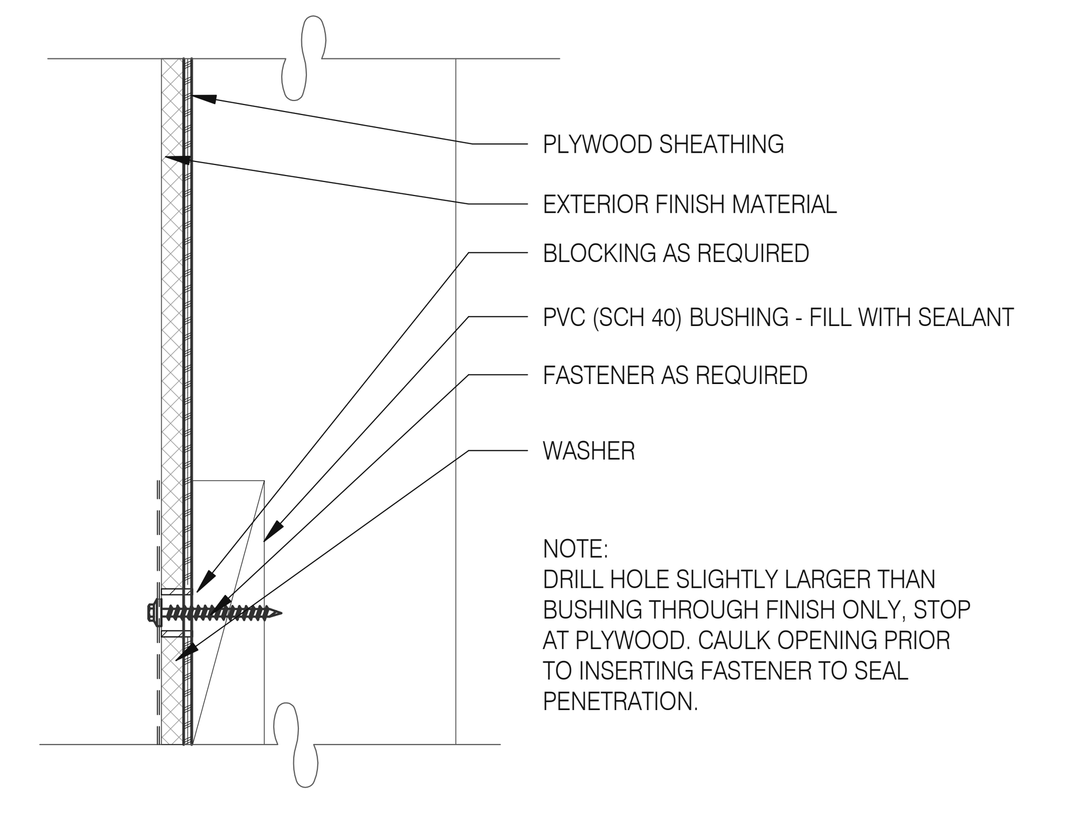


NOTES

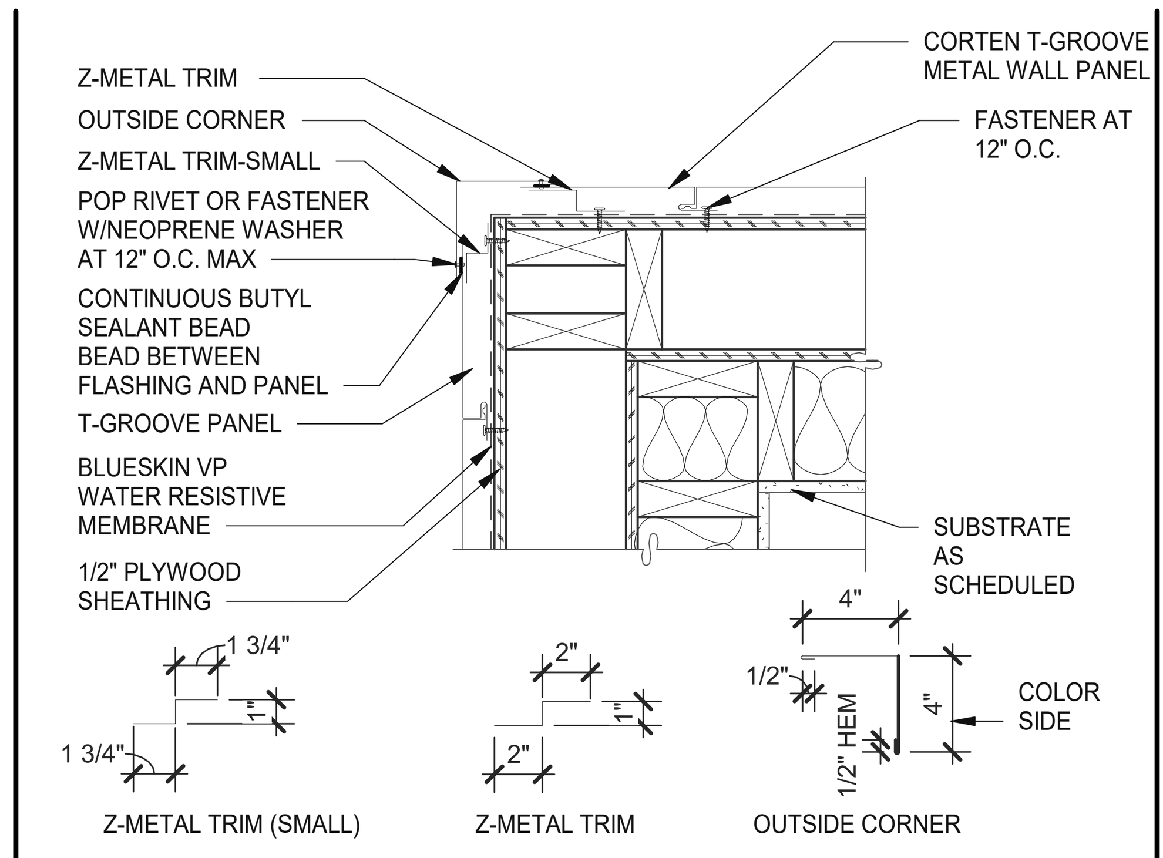
1. 2X WOOD STUDS
2. PLYWOOD SUBSTRATE FOR EXTERIOR WALLS
3. FLASHING TAPE AT ALL VERTICAL PARAPET TRANSITIONS. EXTEND TAPE 12" OUTWARD AND UPWARD FROM CORNER AS SHOWN. LAP CORNERS WITH ANGLED TAPE AS SHOWN TO INSURE FULL COVERAGE AT CORNERS
4. DOUBLE 2X TOP PLATE.
5. PAINTED 24 GAUGE PARAPET COPING. SLOPE 1/4:1 TOWARDS ROOF WITH FIBER CANT STRIPS UNDER COPING. LAP FRONT AND BACK EDGE 2" DOWN VERTICAL FACE. LAP EXPOSED COPING EDGE EXPOSED ENDS AT VERTICAL PARAPET TRANSITION.
6. WRAP EXTERIOR FINISH MATERIAL ONTO VERTICAL FACE OF PARAPET TRANSITION, SEE EXTERIOR ELEVATIONS.
7. EXTERIOR FINISH MATERIAL AS NOTED ON EXTERIOR ELEVATIONS ON SHEET A4.0
8. TERMINATION BAR AT VERTICAL TRANSITION OF EXTERIOR FINISH MATERIAL AND MEMBRANE ROOFING. SEAL VERTICAL GAP BETWEEN TERMINATION BAR AND EXTERIOR FINISH PER ROOFING MANUFACTURER SPECIFICATIONS.
9. PVC ROOFING MEMBRANE ON BACKSIDE OF PARAPET.

IMPORTANT : ONLY FASTEN PARAPET COPING ALONG THE FRONT AND BACK VERTICAL EDGE. NEVER ON TOP OF COPING.

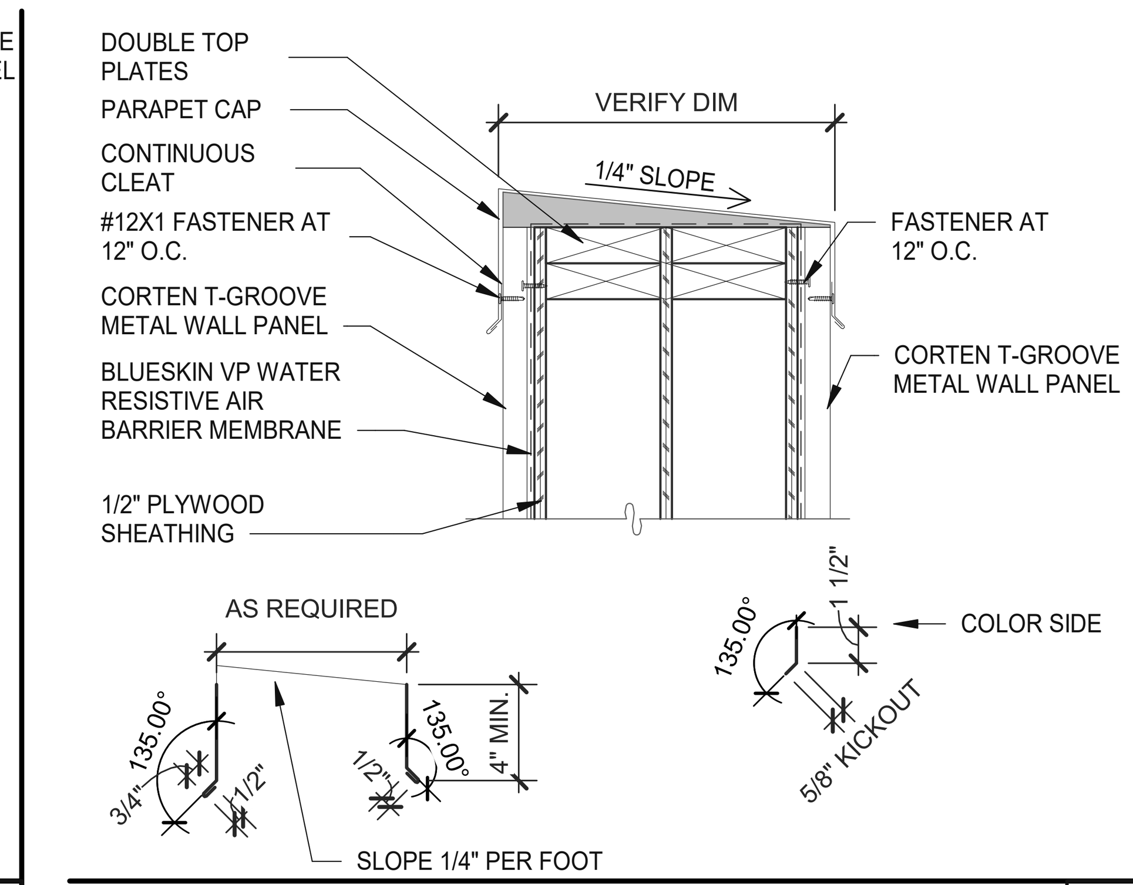
PARAPET CAP & TRANSITION 1" = 1'-0" **14**



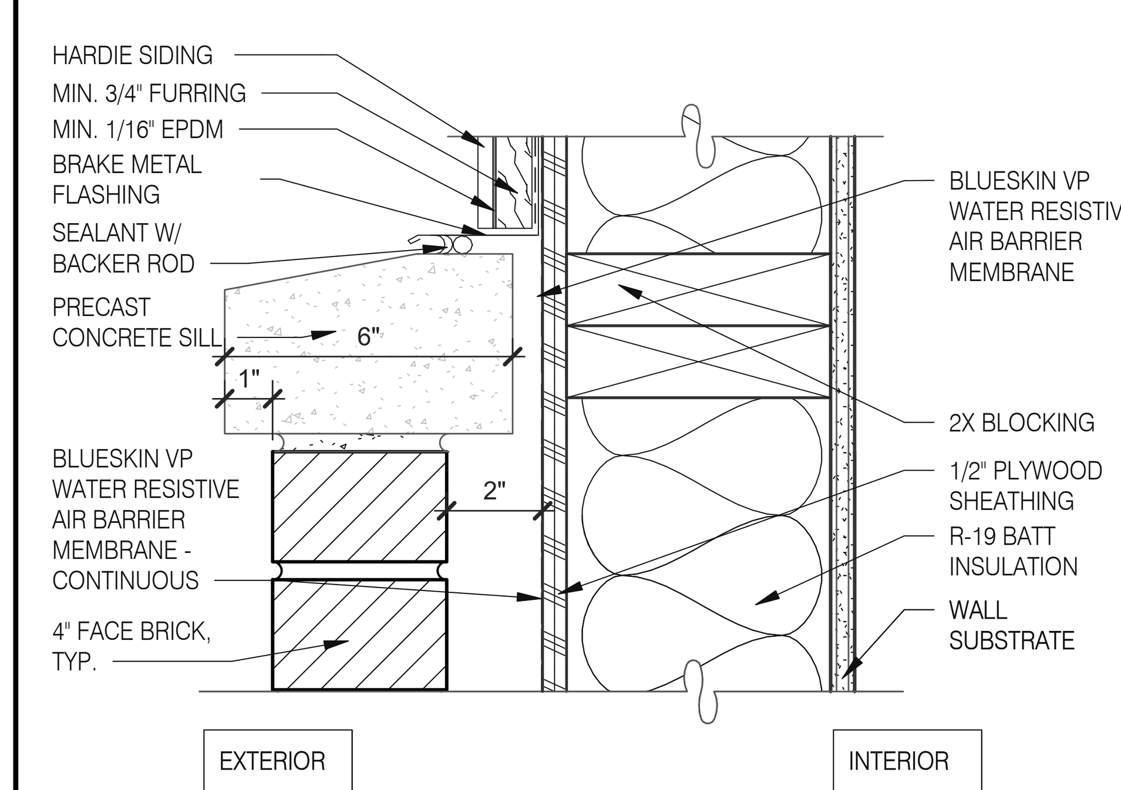
CONNECTION THRU EXT. FINISH 1" = 1'-0" **9**



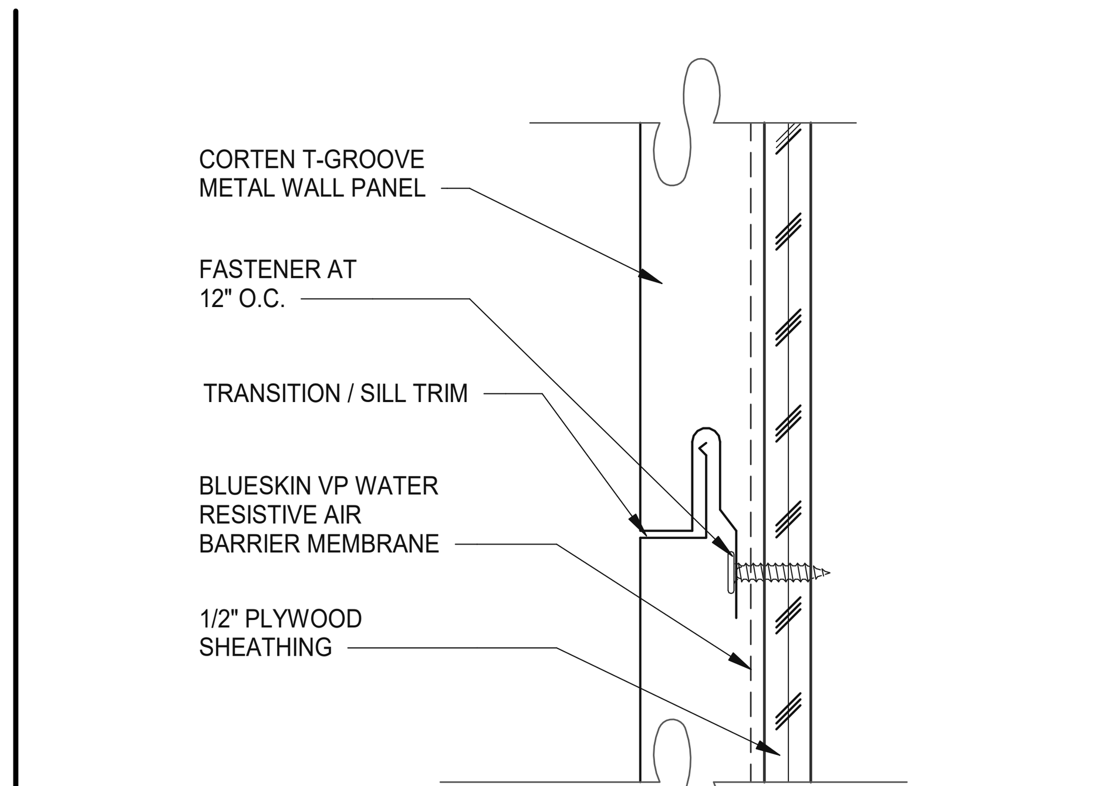
OUTSIDE CORNER 1 1/2" = 1'-0" **5**



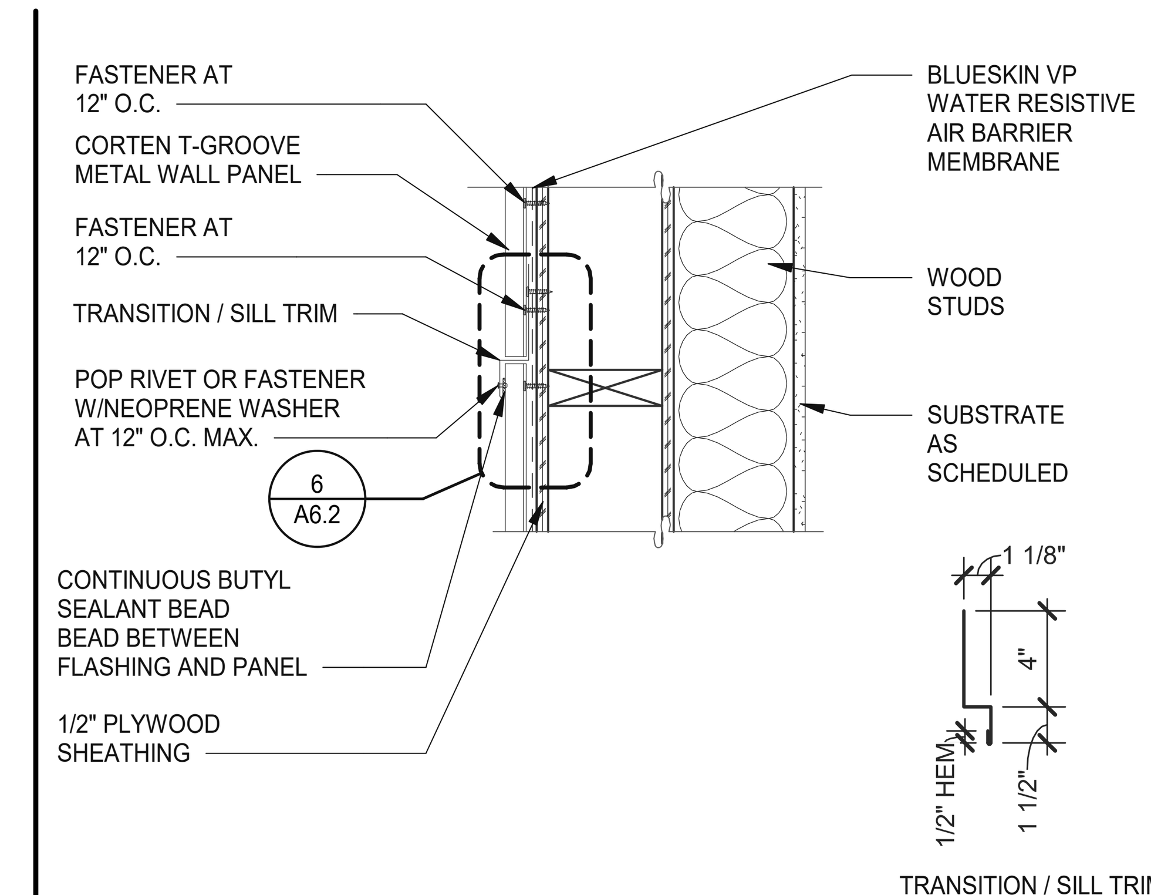
PARAPET CAP 1 1/2" = 1'-0" **1**



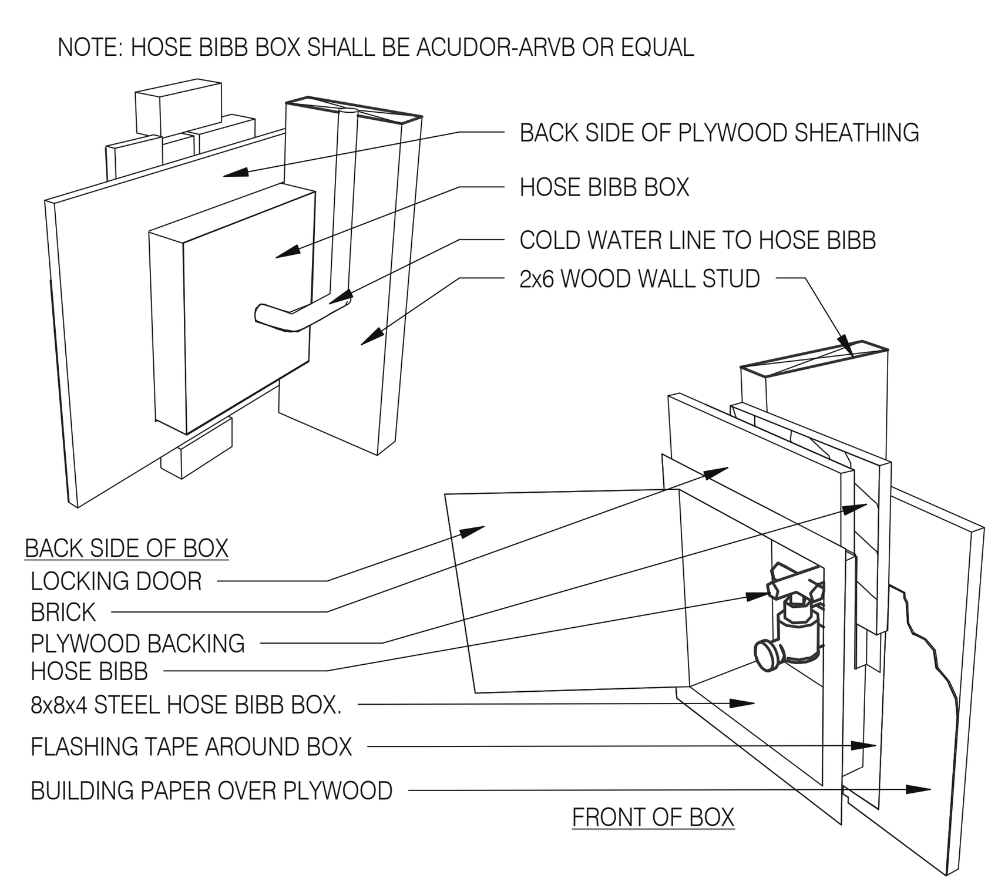
BRICK SILL 3" = 1'-0" **10**



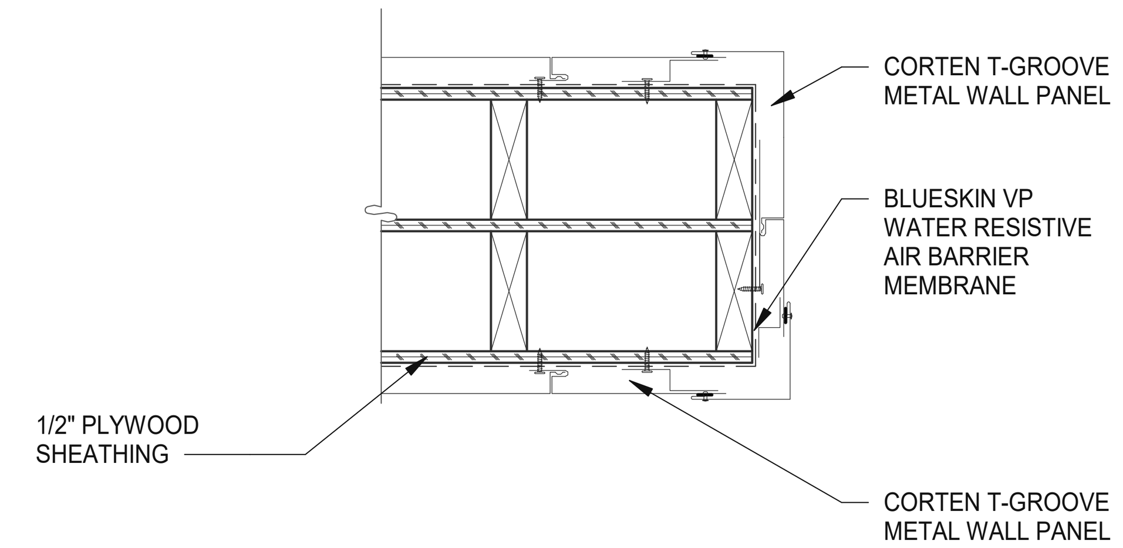
PANEL JOINT 6" = 1'-0" **6**



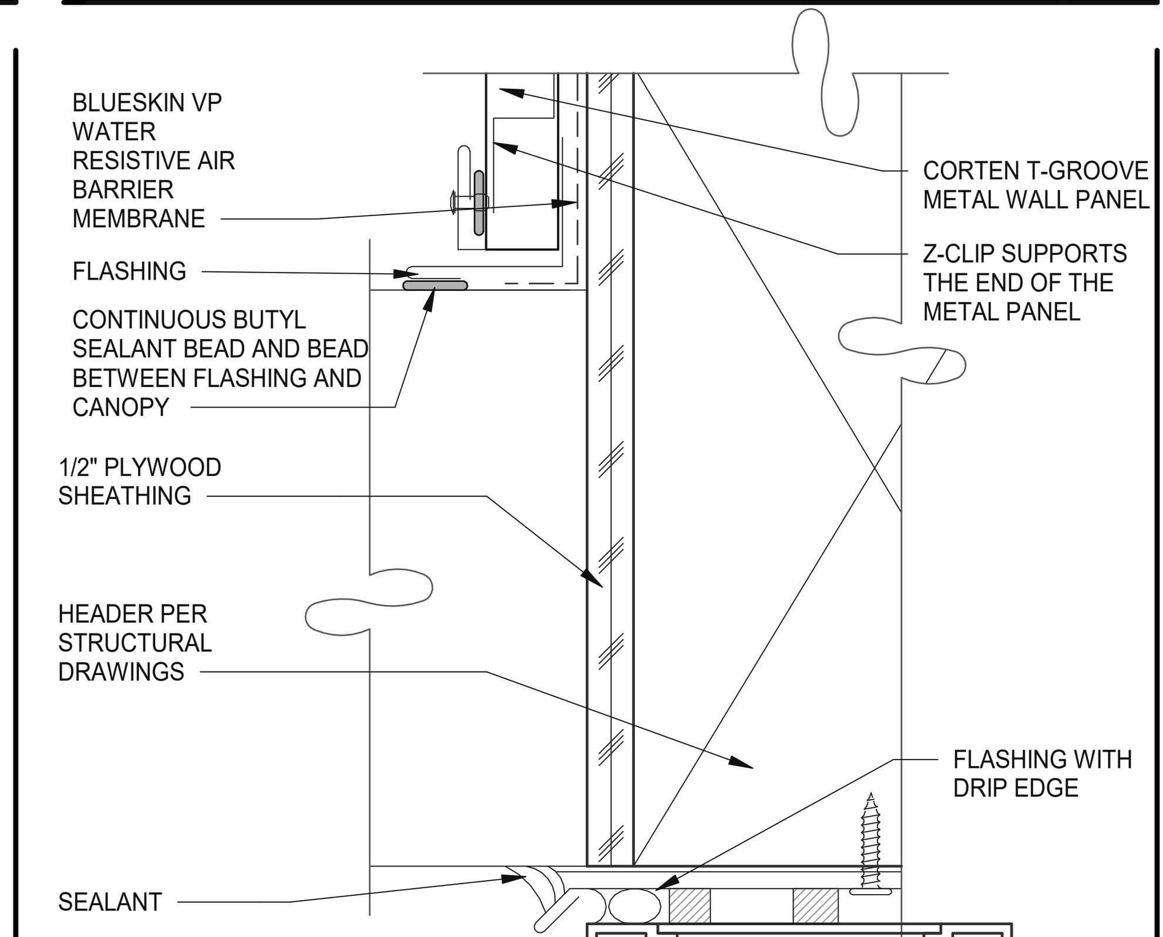
VERTICAL PANEL JOINT 1 1/2" = 1'-0" **2**



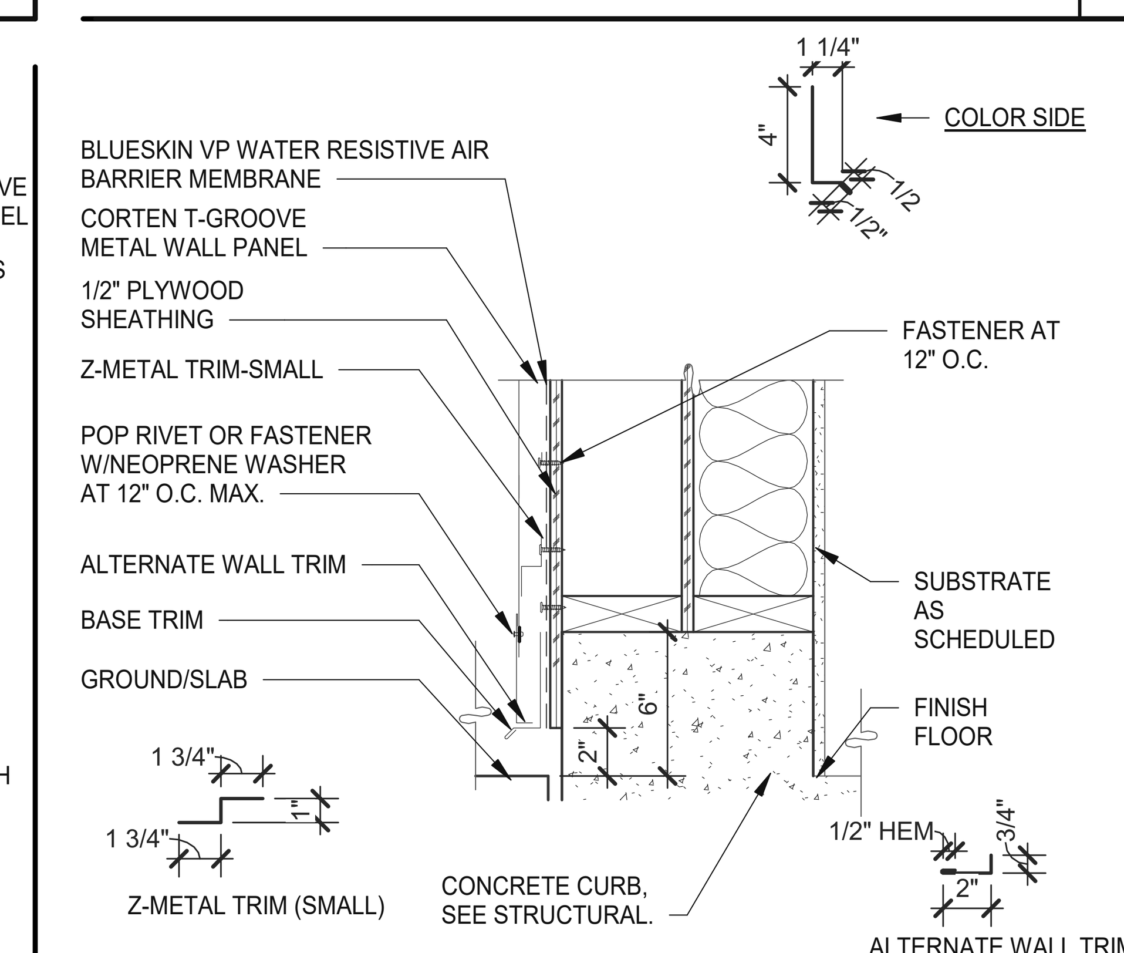
HOSE BIBB BOX 3" = 1'-0" **15**



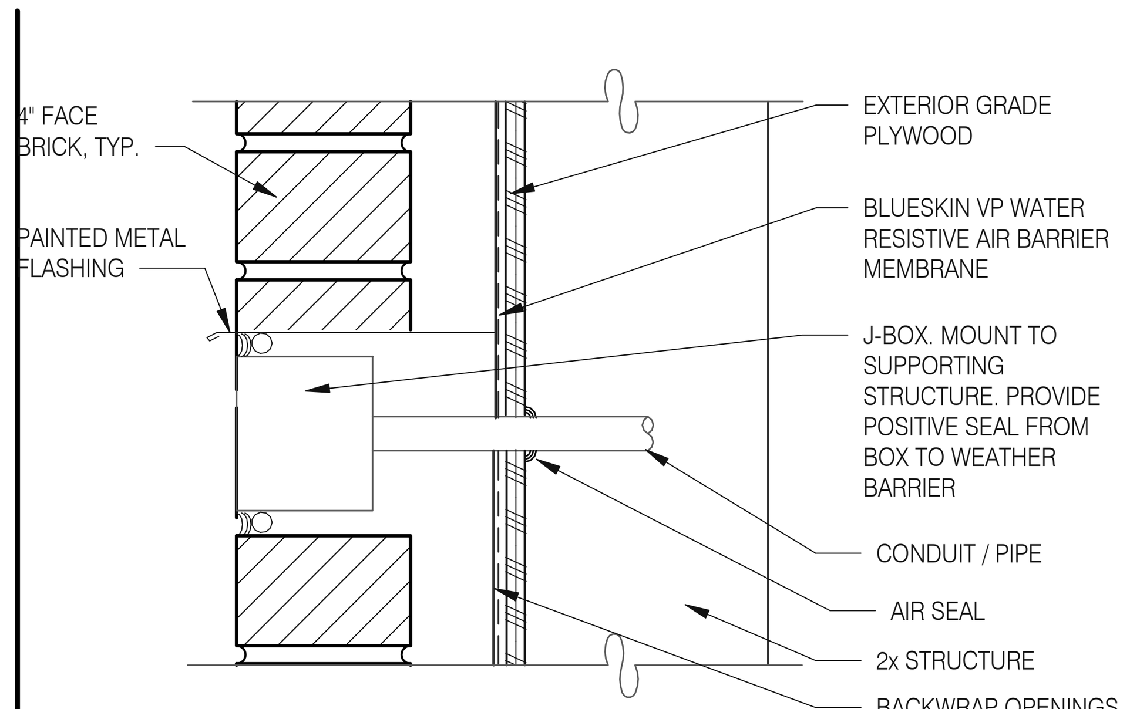
CORTEN T-GROOVE METAL PANEL 1 1/2" = 1'-0" **11**



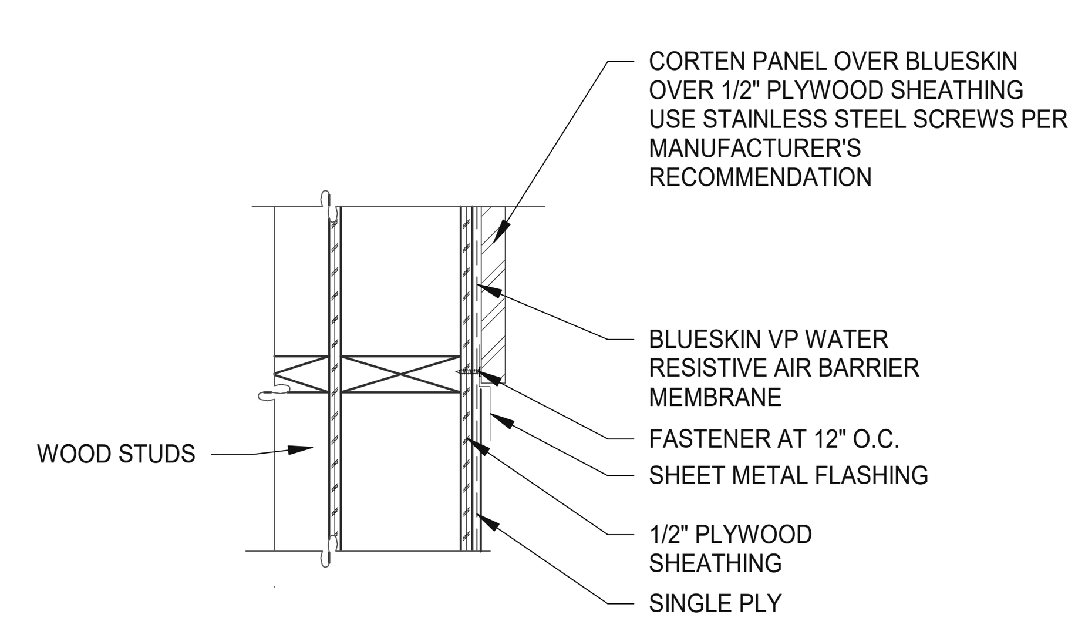
ENLARGED CANOPY DETAIL 6" = 1'-0" **7**



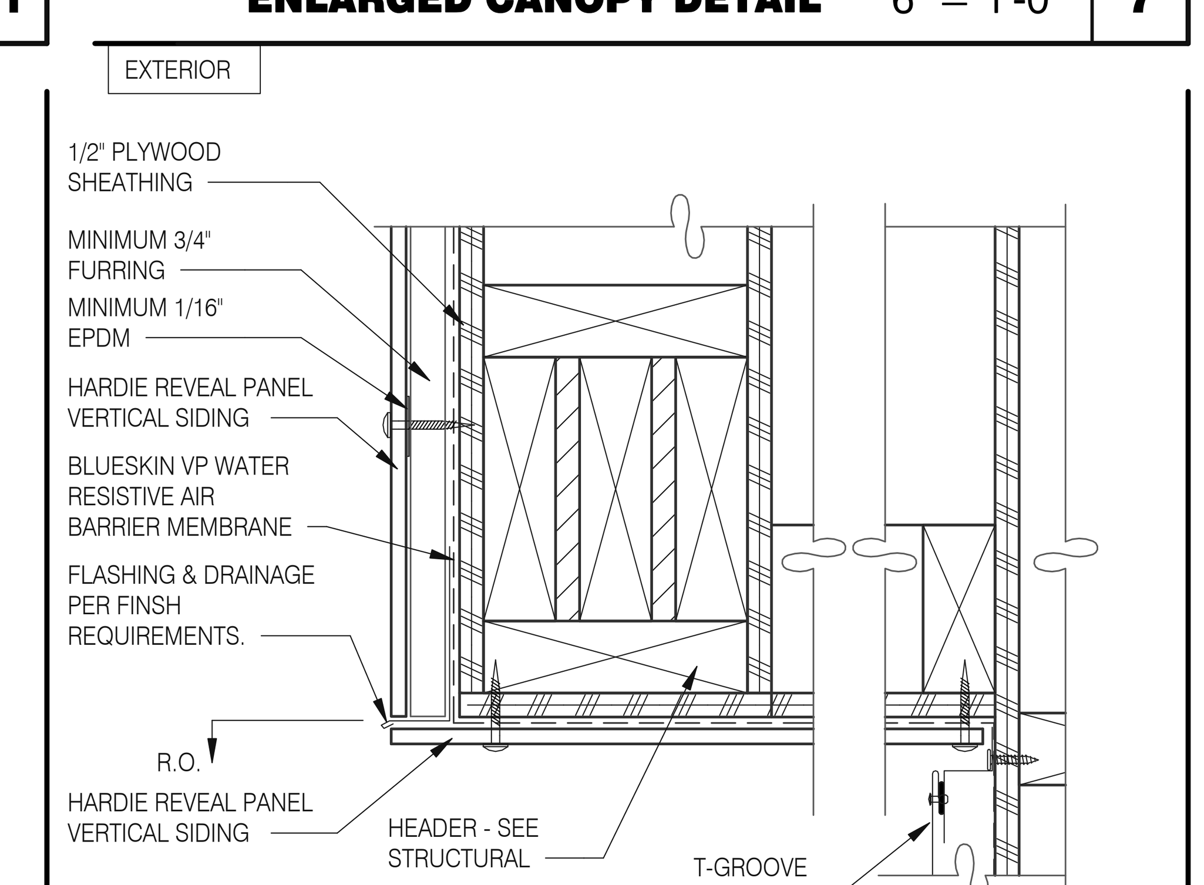
BASE TRIM HORIZONTAL 1 1/2" = 1'-0" **3**



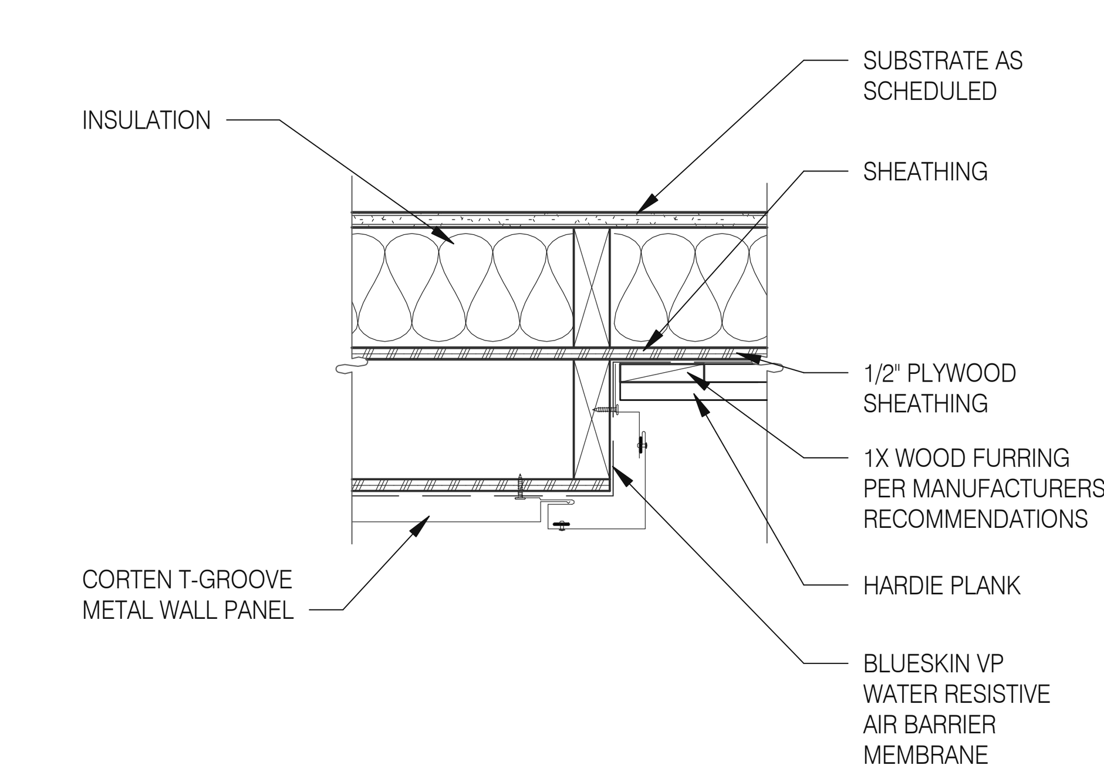
CO2 FILL / J-BOX 3" = 1'-0" **16**



METAL PANEL @ ROOFING 1 1/2" = 1'-0" **12**



PARAPET CORNER 3" = 1'-0" **8**



VERTICAL OUTSIDE CORNER 1 1/2" = 1'-0" **4**

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TACO BELL

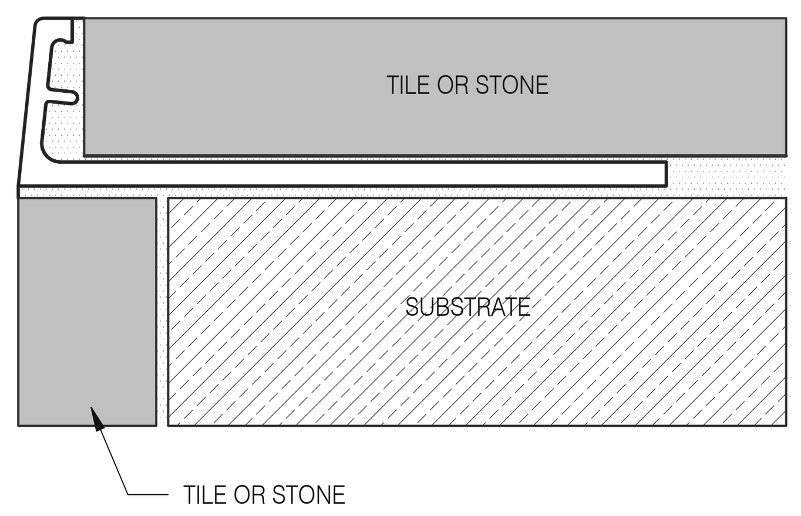
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
CONSTRUCTION DETAILS WALL

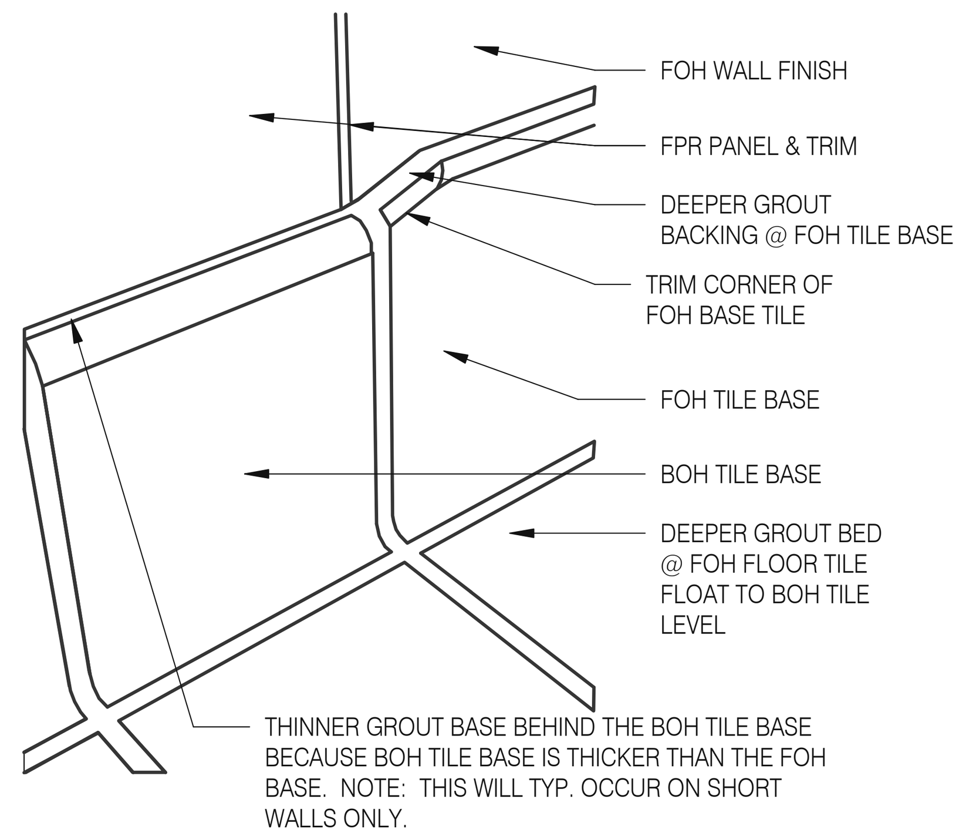
A6.2

PLOT DATE: 3/31/2022 1:02:45 PM

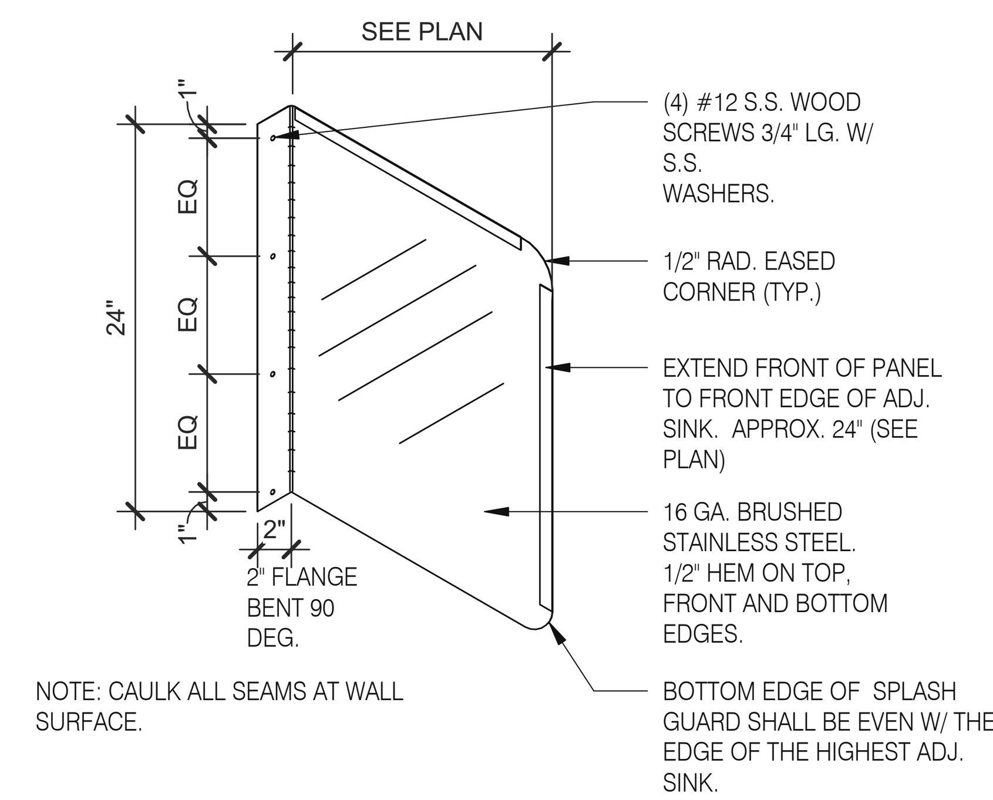
C:\Users\cpisel\OneDrive - GPD Group\Documents\TB 314703 Mt Holly NC - ARCH_SM20_CSpisel@KMSA.rvt



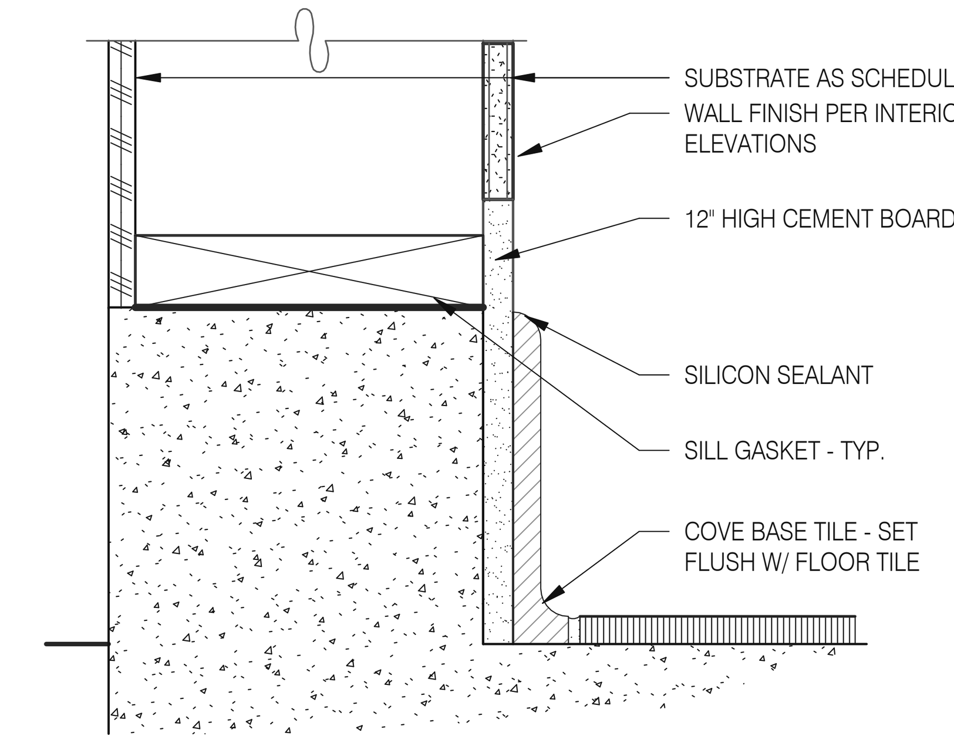
SCHLUTER JOLLY CORNER GUARD 1 1/2" = 1'-0" | 17



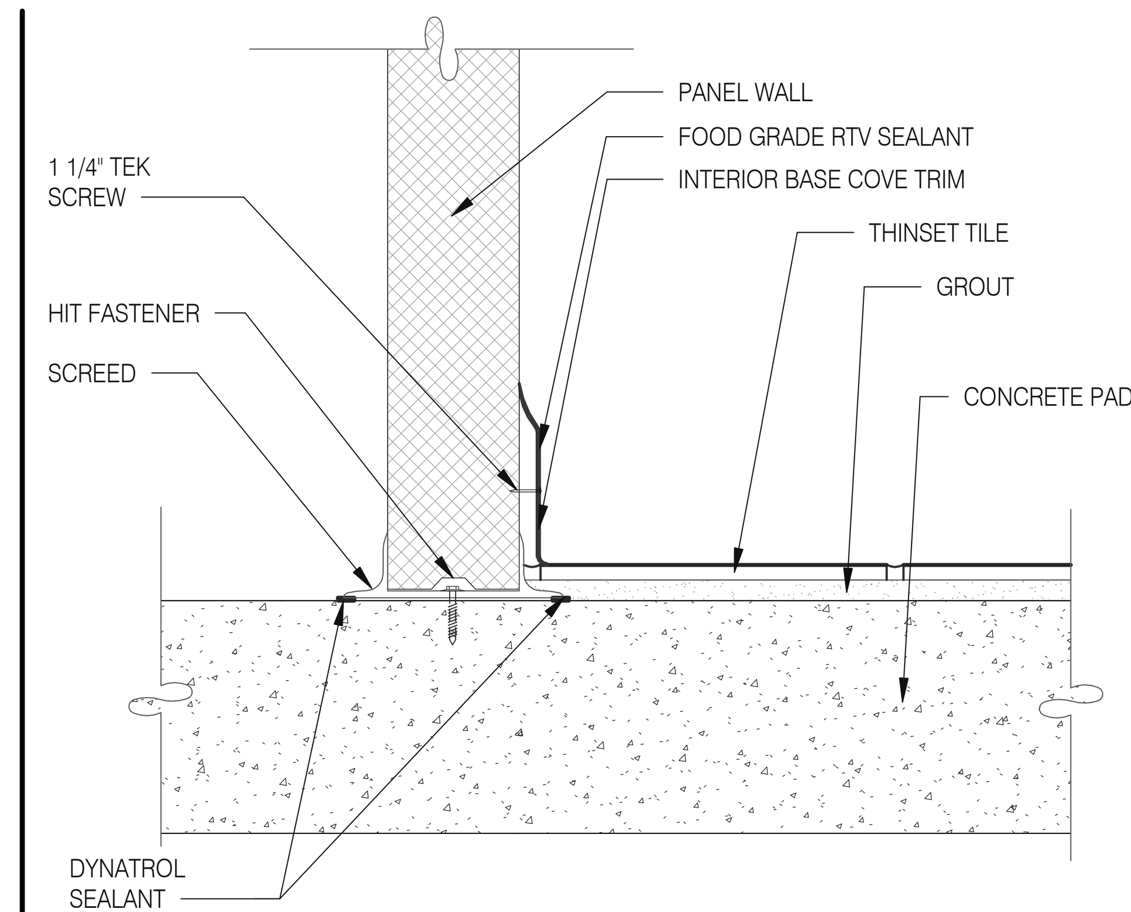
TILE BASE TRANSITION 12" = 1'-0" | 13



SPLASH GUARD 1" = 1'-0" | 9

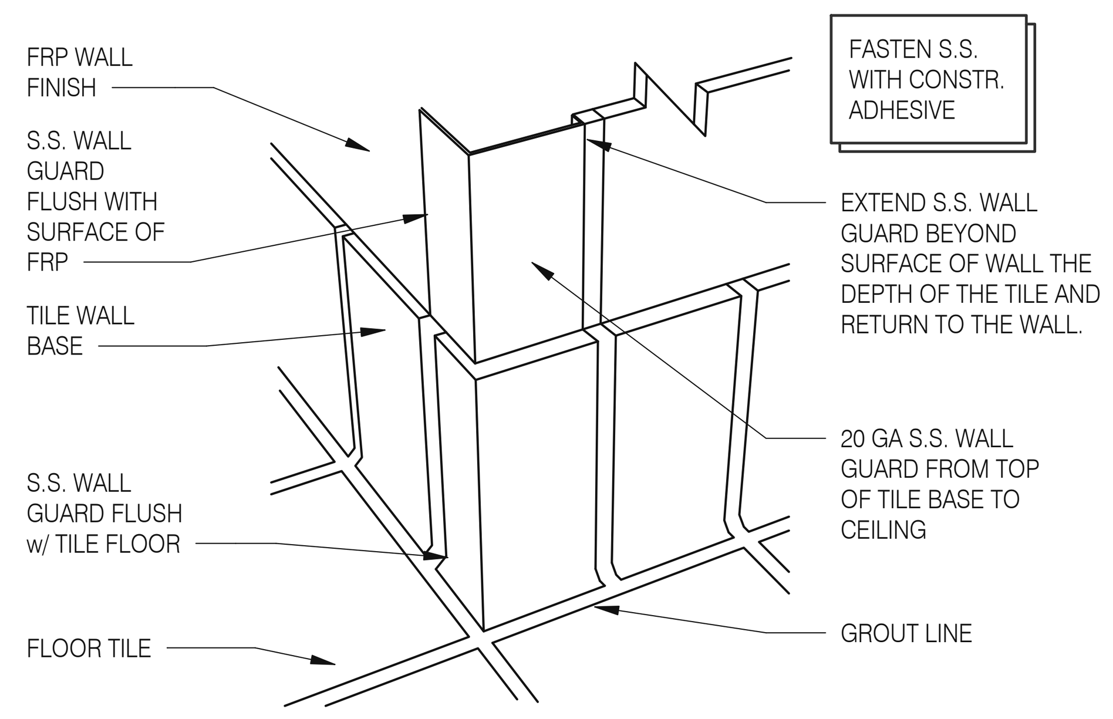


BASE @ DINING EXT. SIDE WALLS 3" = 1'-0" | 5



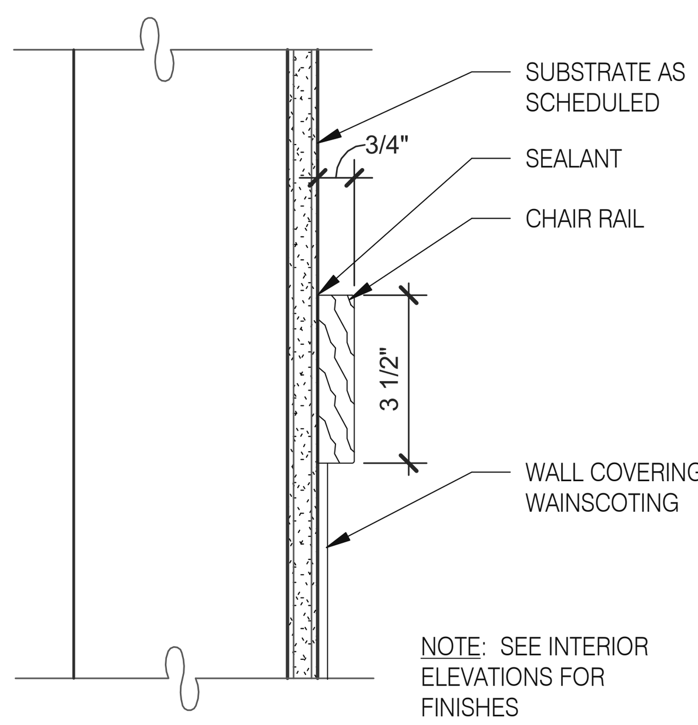
WALK-IN TILE/BASE 1 1/2" = 1'-0" | 1

NOT USED | 18

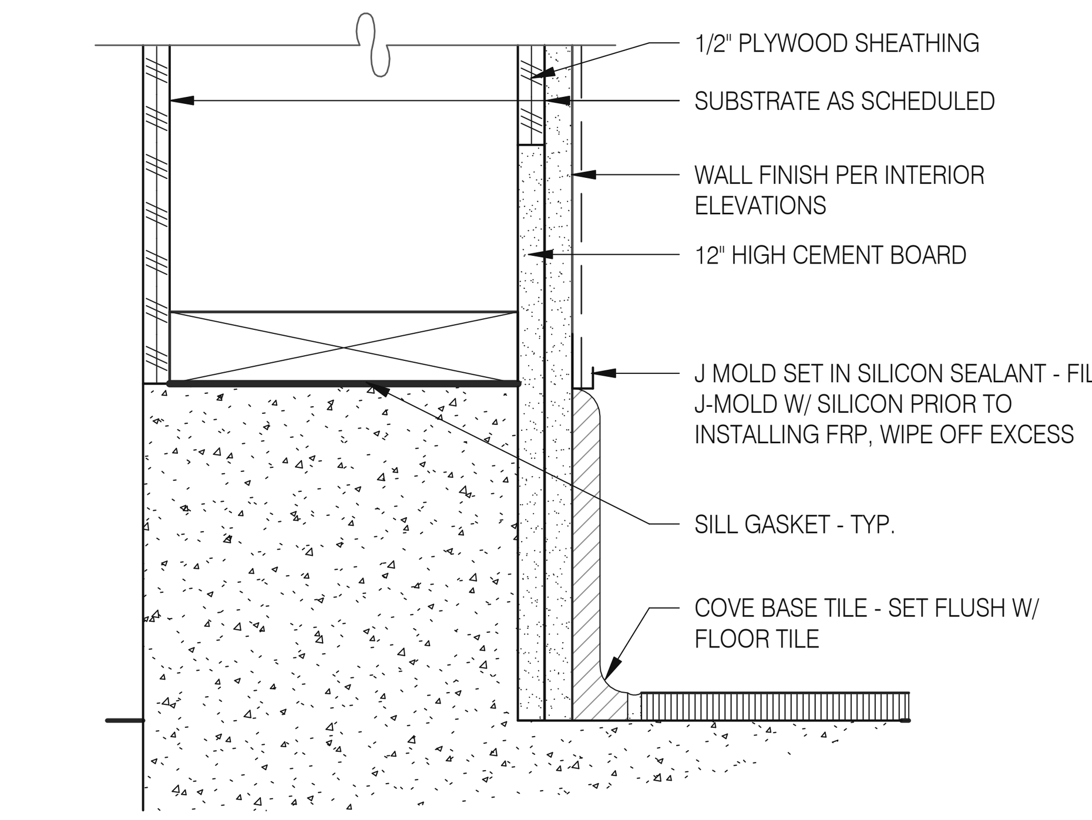


NOTE: THIS DETAIL SHOW A 90 DEGREE CORNER. ADAPT THIS DETAIL AND APPLY WHERE WALLS EXTEND INTO SPACE.

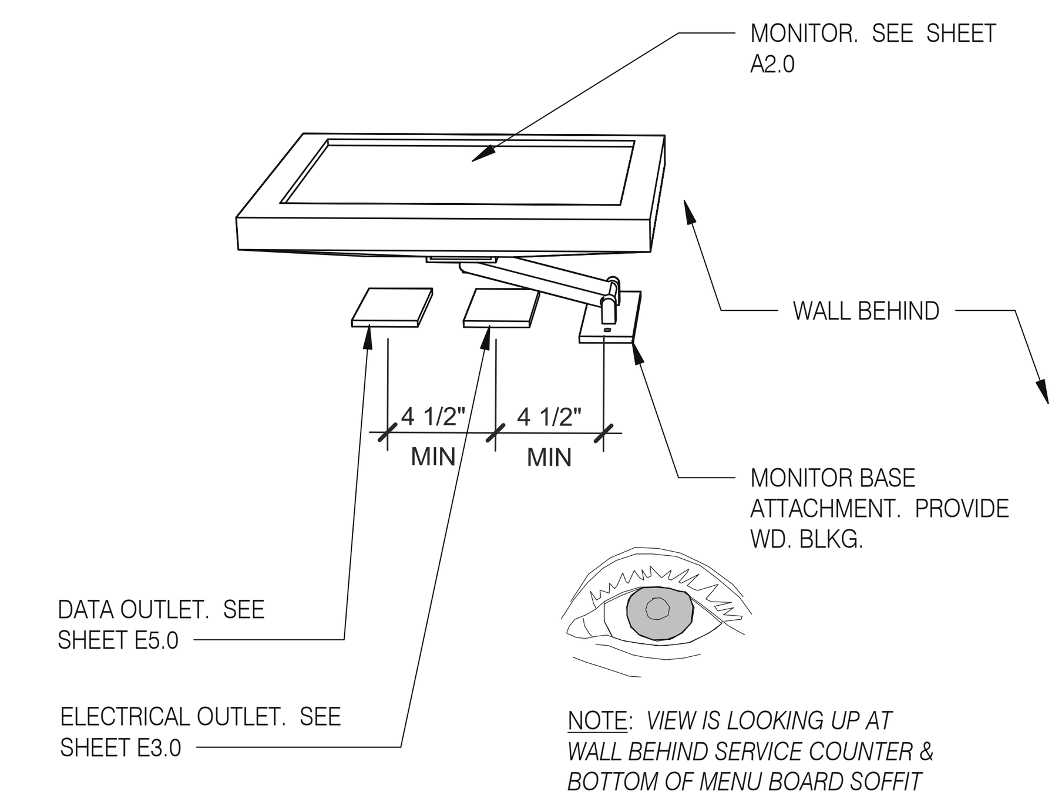
S.S. CORNER & END WALL GUARD 12" = 1'-0" | 14



CHAIR RAIL DETAIL 3" = 1'-0" | 10

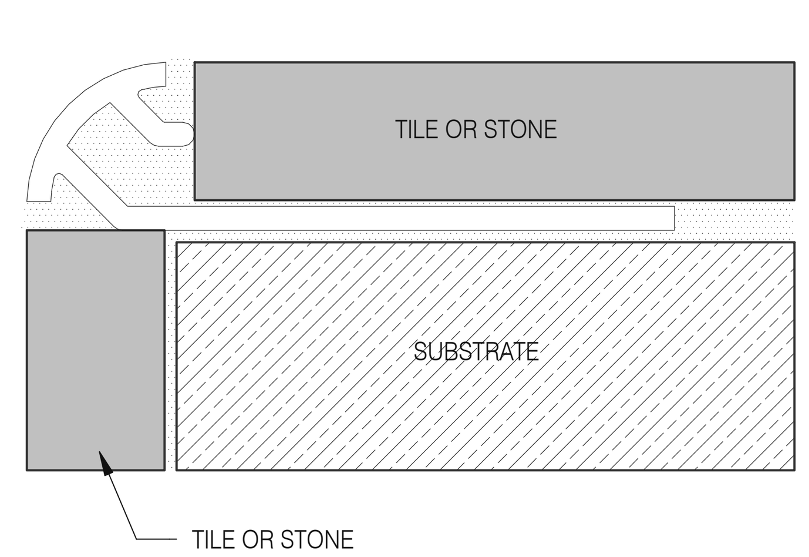


BASE @ EXT. WALL 3" = 1'-0" | 6

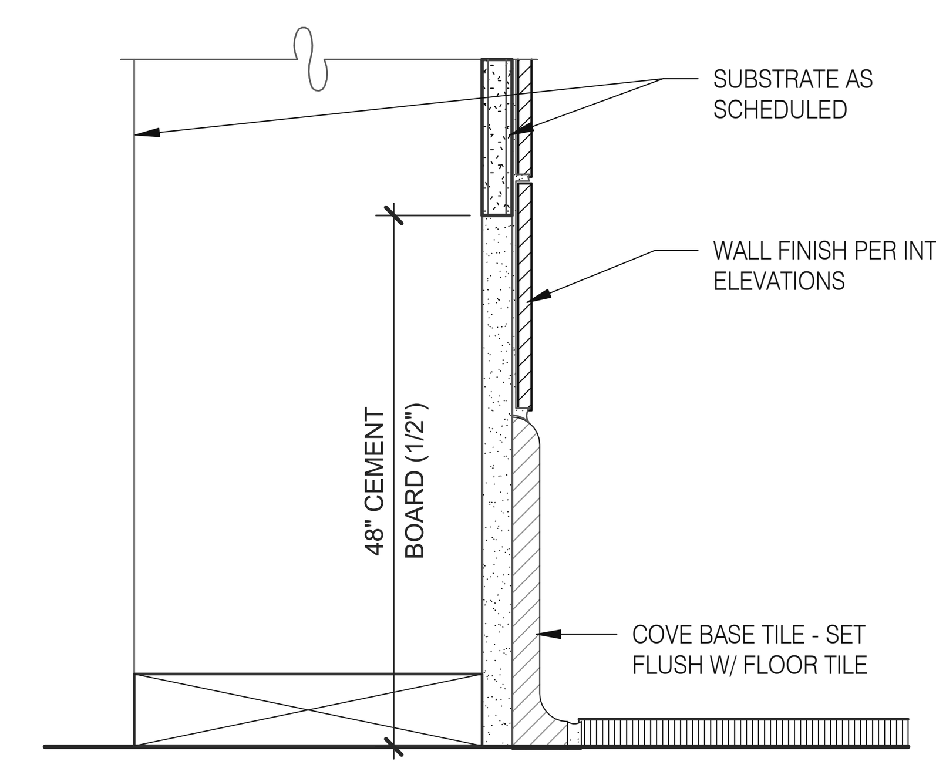


WALL MOUNT MONITOR 1 1/2" = 1'-0" | 2

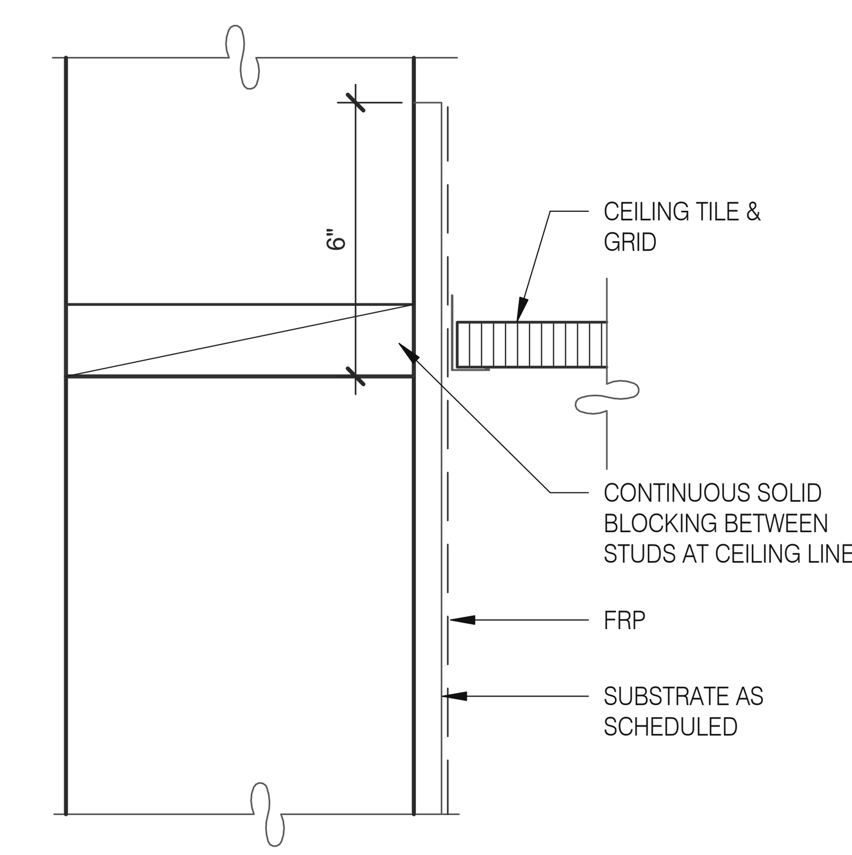
NOT USED | 19



SCHLUTER CORNER GUARD 1 1/2" = 1'-0" | 15

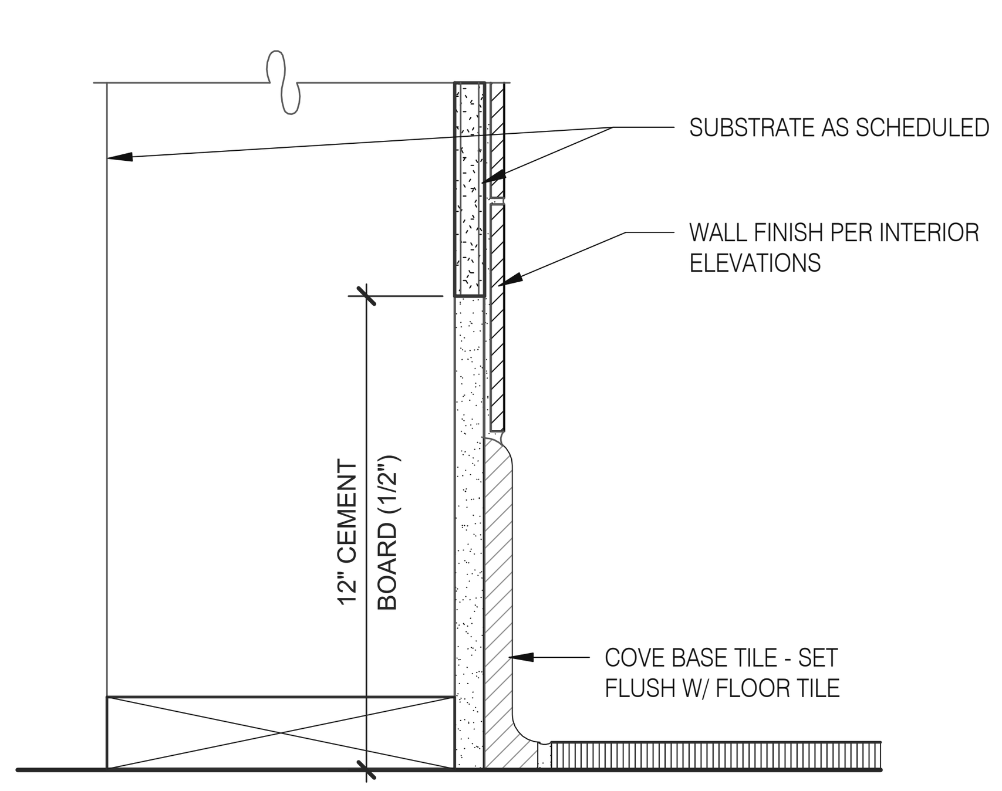


BASE IN RESTROOM 3" = 1'-0" | 7

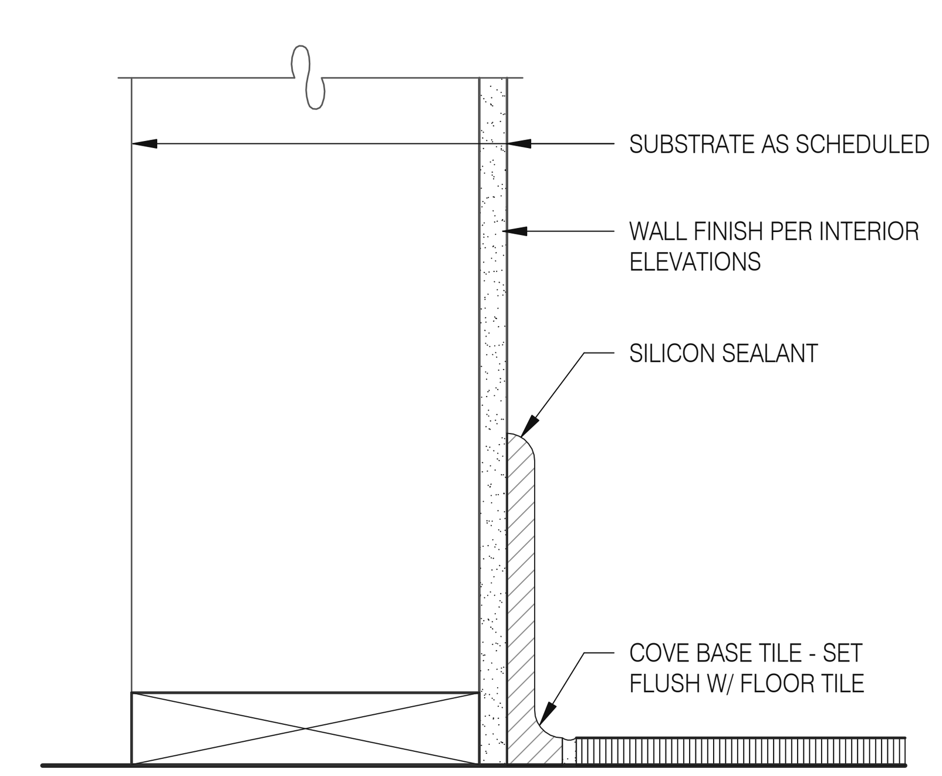


KITCHEN FINISH @ CEILING 3" = 1'-0" | 3

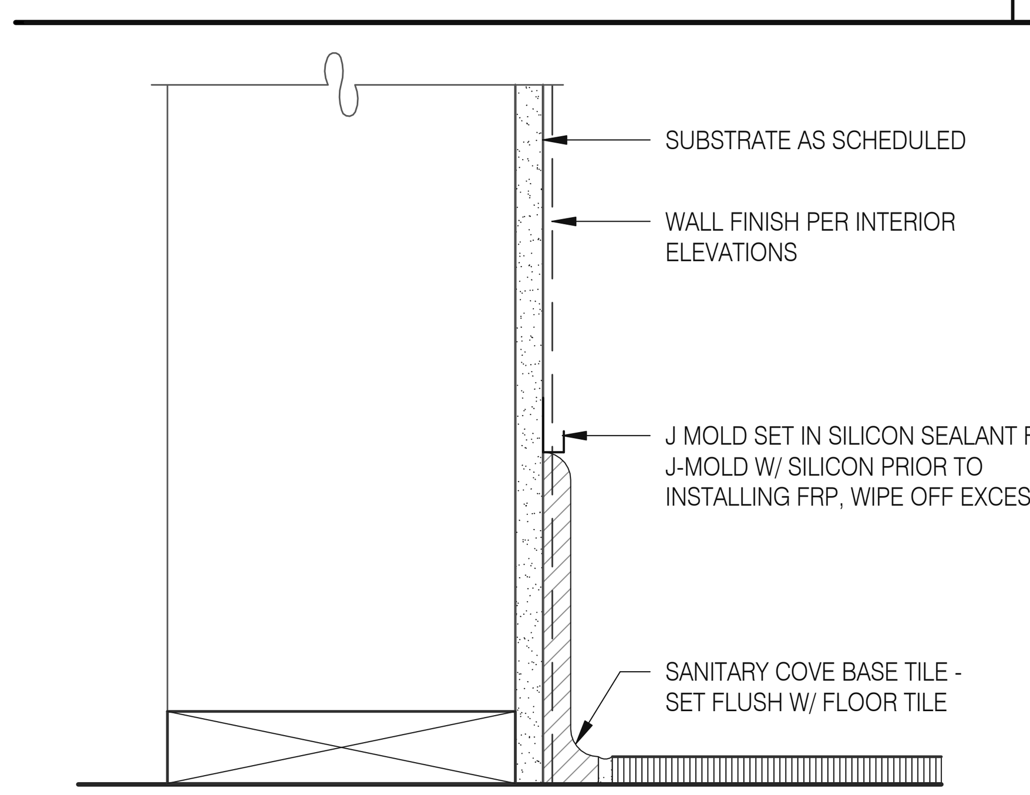
NOT USED | 20



BASE @ KITCHEN WALL 3" = 1'-0" | 16



BASE @ DINING ROOM INT. WALL 3" = 1'-0" | 8



BASE @ DINING ROOM INT. WALL 3" = 1'-0" | 4

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BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
FINISH DETAILS

A6.3

PLOT DATE: 3/31/2022 1:02:46 PM

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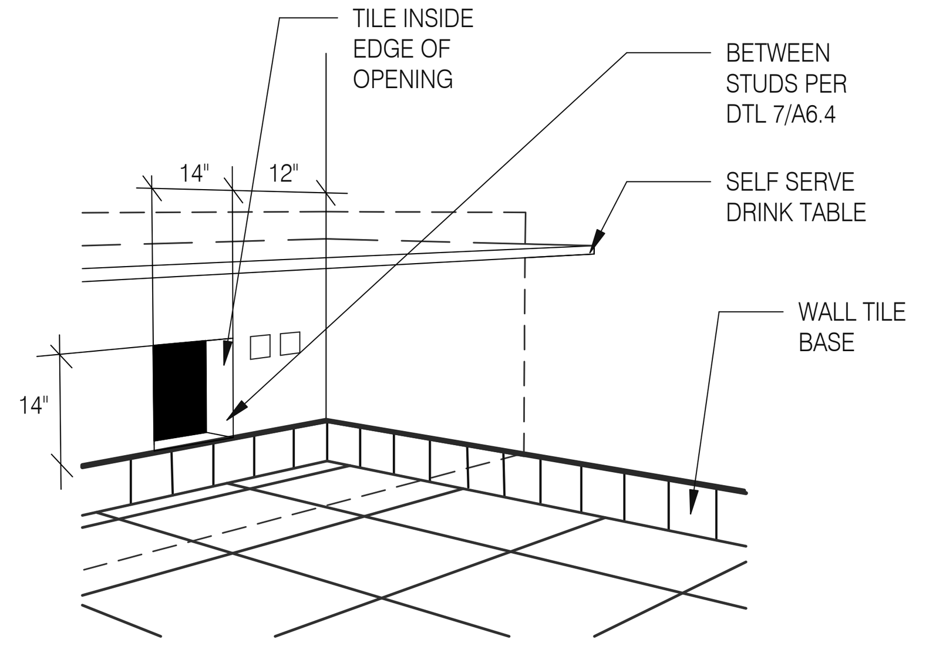
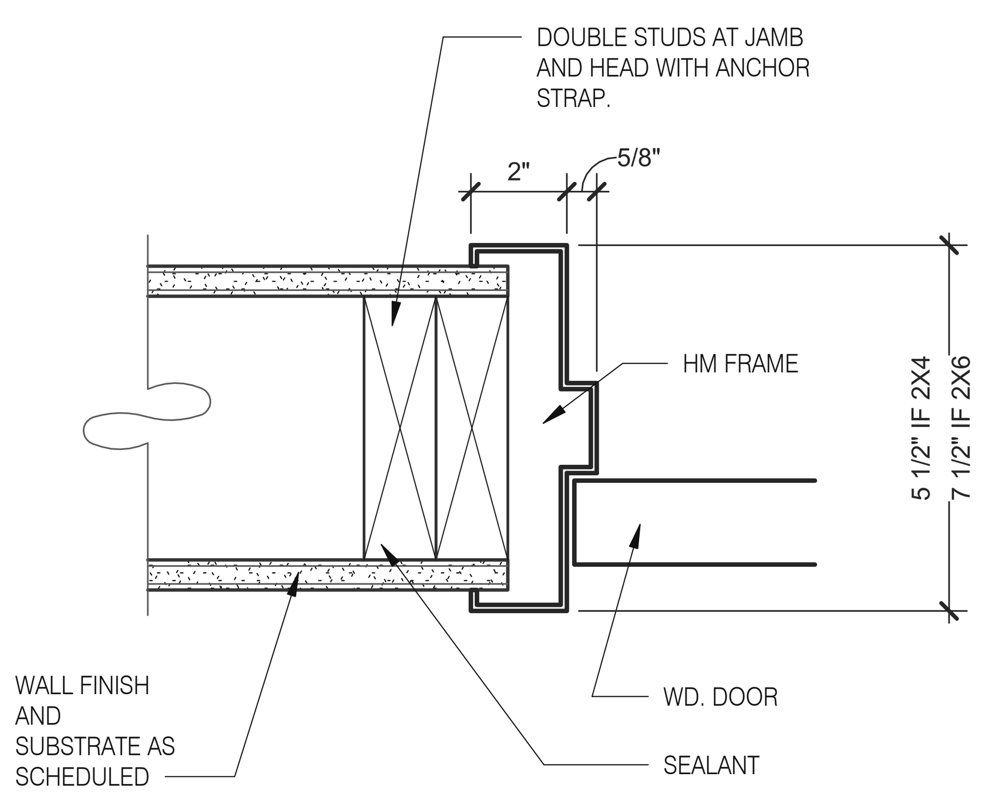
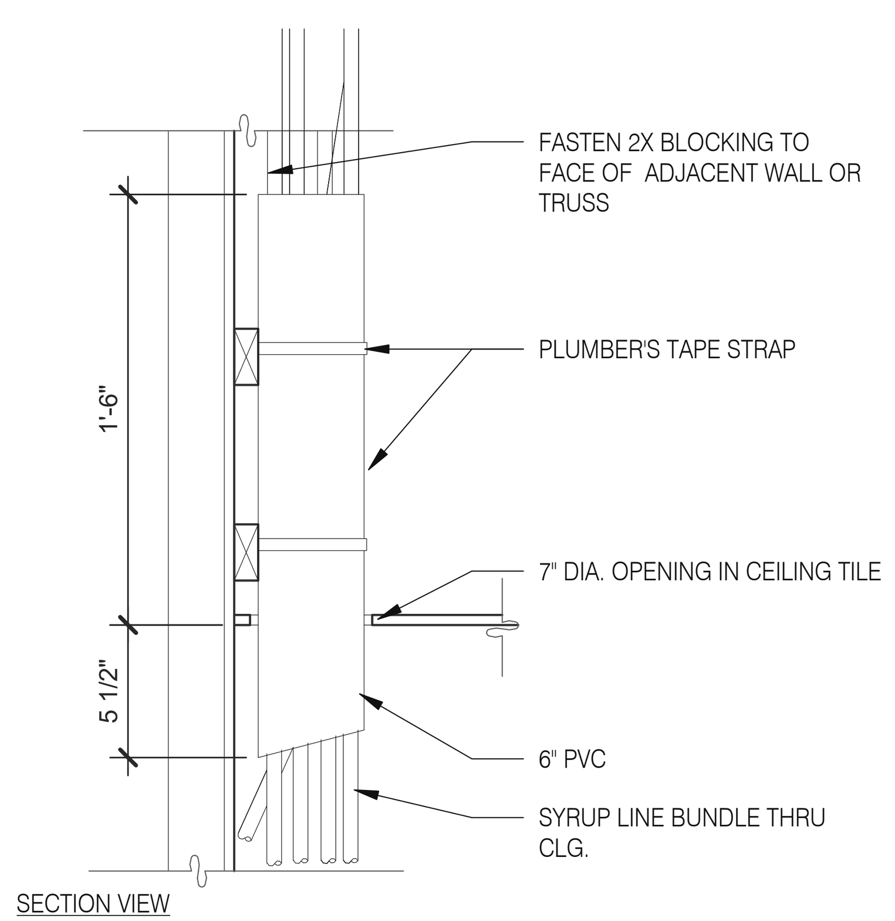


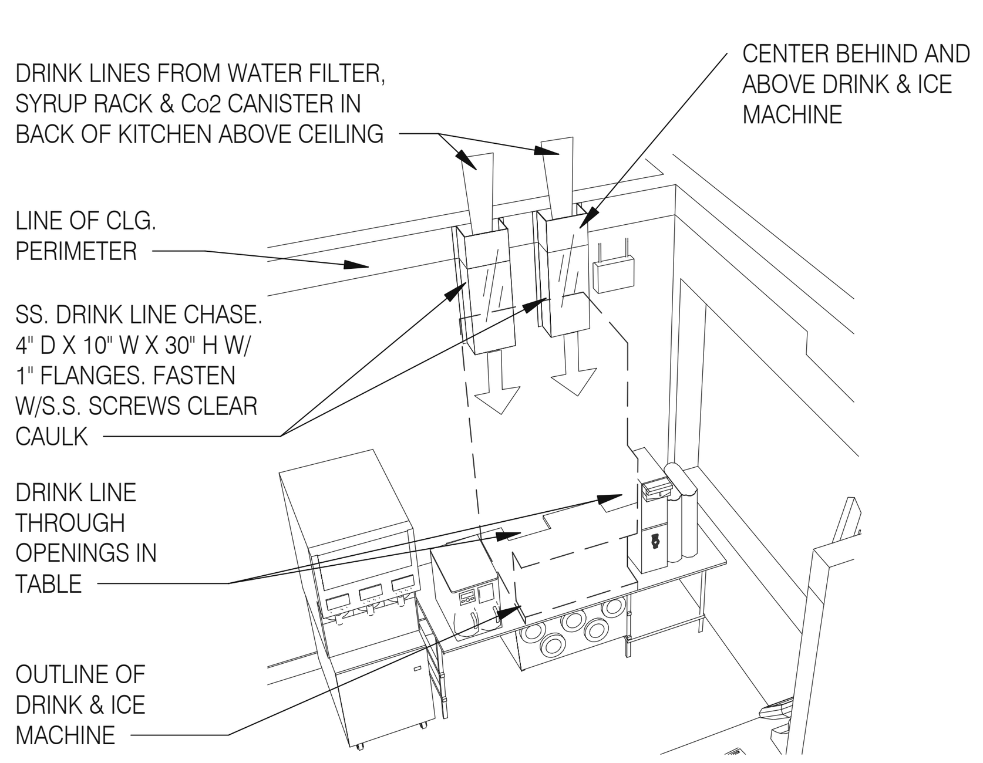
WALL PASS THRU N.T.S. 8



HEAD/JAMB @ H.M. DOOR N.T.S. 6

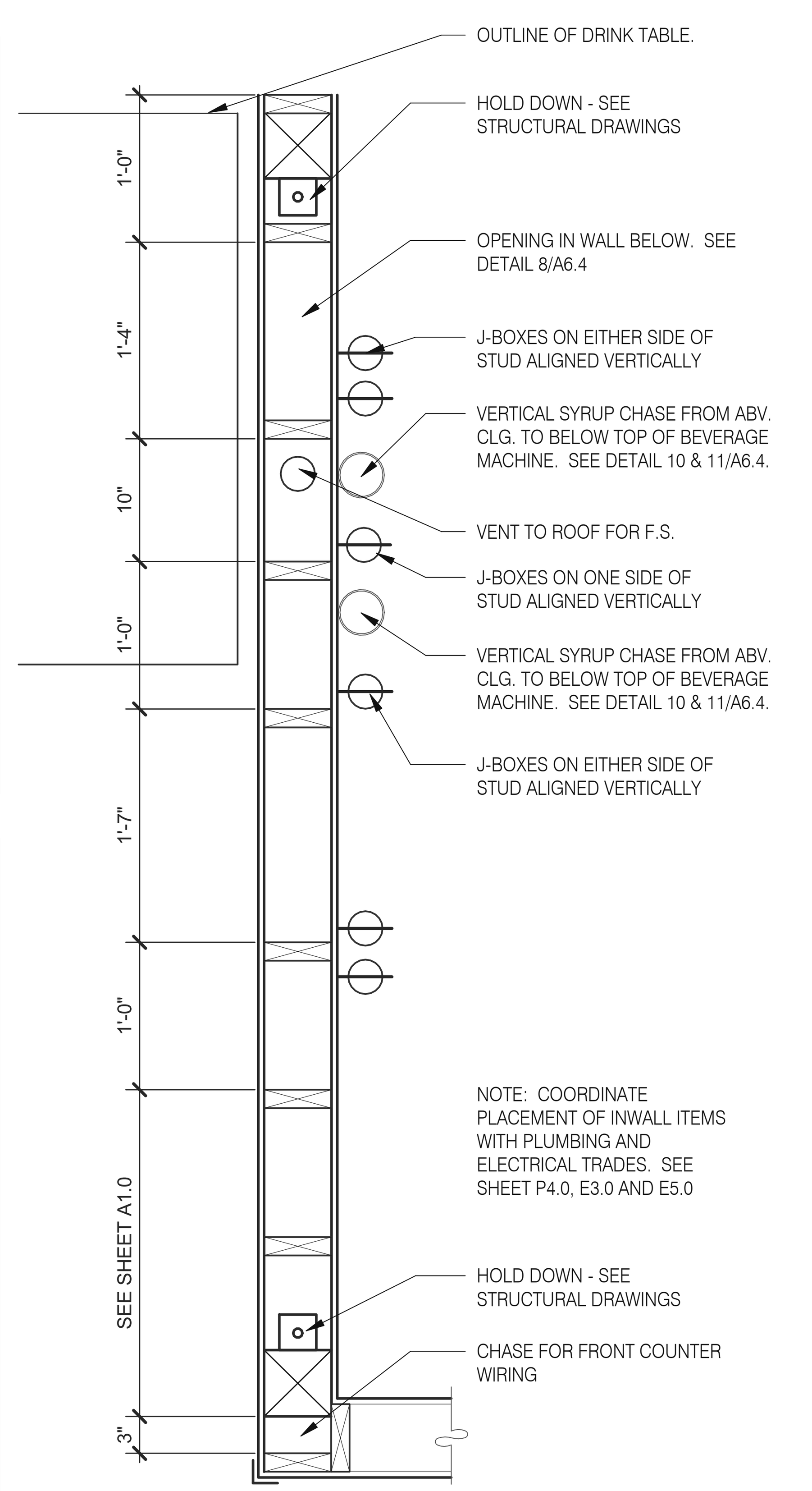


SYRUP BUNDLE CLG. 1 1/2" = 1'-0" 10



NOTE: SEE DETAIL 8/P6.0 DRINK SYSTEM SCHEMATIC & DETAIL 6/P6.0 AND 7/P6.0 FOR DRINK LINES

SYRUP CHASE ON WALL 1 1/2" = 1'-0" 11



INTERIOR CHASE WALL N.T.S. 7

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PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

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ENDEAVOR 2.0
CONSTRUCTION DETAILS INTERIOR

A6.4

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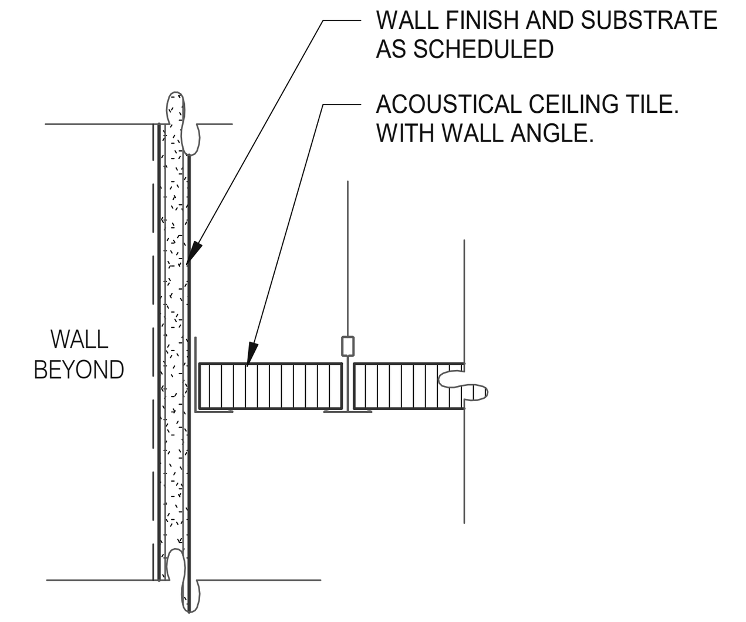
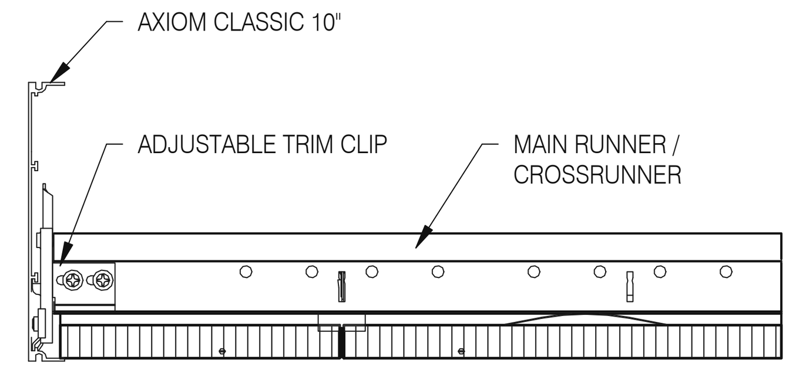
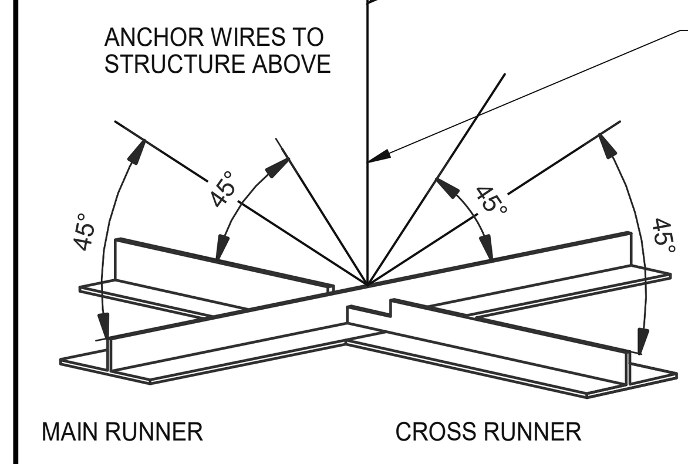


GYPSUM BOARD TRANSITION 3" = 1'-0" | 17



ASSEMBLY CLIP-ON 3" = 1'-0" | 13

LATERAL BRACING: 4-12 GA. WIRES SECURED TO MAIN RUNNER WITHIN 2" OF CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EACH OTHER AT ANGLE NOT TO EXCEED 45° FROM THE PLANE OF THE CEILING TYP. @ 12'-0" EA. WAY BEGINNING 6'-0" MAX. FROM WALL.



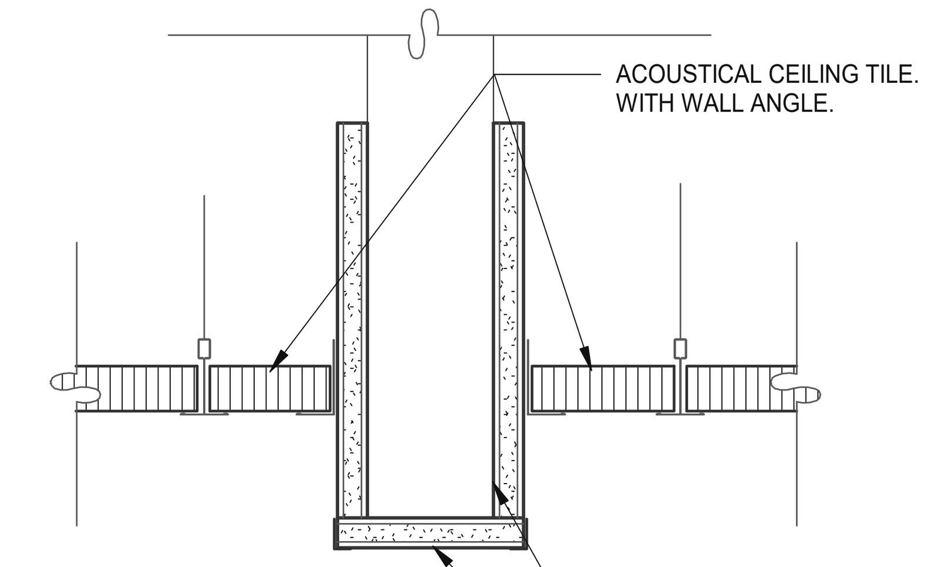
AT SUSPENDED CEILING: VERTICAL HANGER WIRE AT 4'-0" O.C. W/ (2) 1 1/2" x 9" GA. STAPLES @ LOOP & (1) ACROSS LAP. 3 FULL TURNS MINIMUM WITHIN 3" LENGTH

AT OPEN GRID: VERTICAL SUSPENSION WITH THREADED ROD PER OTHER DETAILS.

NOTE:

- ALL WIRES 12 GA.
- PROVIDE 6" CLEARANCE AT ALL PIPES & DUCTS, ETC.
- BRACING WIRES MUST BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOADS, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

SUSPENDED ACOUSTICAL CEILING 3" = 1'-0" | 9



CEILING HEADER TRANSITION 3" = 1'-0" | 5

MEMBER DEPTH:

(EXAMPLE: 6" = 600 X 1/100 INCHES) ALL MEMEBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE DIMENSION.

STYLE:

(EXAMPLE: STUD OR JOIST SECTION = S) THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:

S = STUD OR JOIST, T = TRACK, U = CHANNEL, F = FURRING

600 S 162 - 54

FLANGE WIDTH:

(EXAMPLE: 1 5/8" = 1.625" ~ 162 X 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

MATERIAL THICKNESS:

(EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL =1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

CEILING SPAN TABLE NOTES:

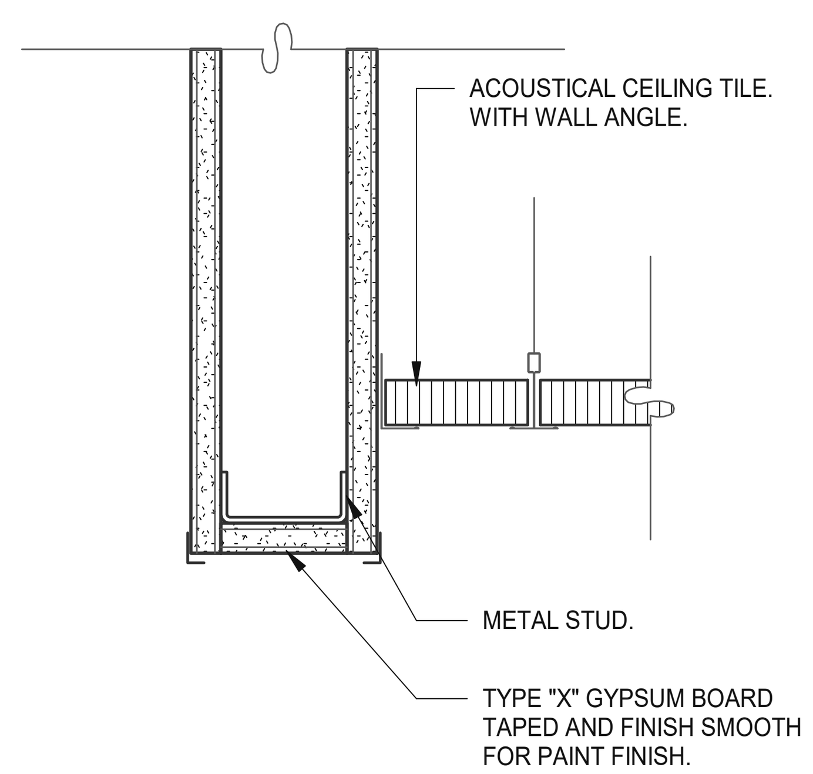
1. VALUES ARE FOR SINGLE SPANS.
2. ALLOWABLE CEILING SPAN CALCULATIONS BASED ON 33KSI YIELD STRENGTH STEEL.
3. FOR FULLY BRACED CEILINGS, USE MID-SPAN BRACED VALUES.
4. END BEARING LENGTH = 1" MINIMUM.

SECTION:	(MIL)	4 PSF LATERAL SUPPORT OF COMPRESSION FLANGE UNSUPPORTED JOIST SPACING (IN.) O.C. 12"	16"	24"	MID-SPAN JOIST SPACING (IN.) O.C. 12"	16"	24"
362S125	18	9'-3"	8'-7"	7'-7"	12'-8"	11'-7"	10'-0"
362S125	27	10'-8"	9'-10"	8'-10"	15'-0"	13'-11"	12'-4"
362S125	30	11'-0"	10'-2"	9'-1"	15'-6"	14'-4"	12'-10"
362S125	33	11'-5"	10'-7"	9'-5"	16'-2"	14'-10"	13'-3"
362S125	43	12'-8"	11'-8"	10'-5"	17'-9"	16'-5"	14'-8"
362S137	27	12'-0"	11'-2"	10'-0"	17'-2"	15'-11"	14'-3"
362S137	33	12'-11"	11'-11"	10'-8"	18'-4"	16'-11"	15'-2"
362S137	43	14'-3"	13'-2"	11'-8"	20'-0"	18'-6"	16'-7"
362S162	33	14'-8"	13'-7"	12'-2"	20'-10"	18'-11"	16'-6"
362S162	43	16'-2"	14'-11"	13'-4"	22'-8"	20'-7"	18'-0"
400S125	27	10'-11"	10'-1"	9'-1"	15'-5"	14'-3"	12'-9"
400S125	30	11'-4"	10'-5"	9'-4"	16'-0"	14'-9"	13'-2"
400S125	33	11'-9"	10'-10"	9'-8"	16'-7"	15'-3"	13'-8"
400S125	43	13'-0"	12'-0"	10'-8"	18'-3"	16'-10"	15'-0"
400S137	27	12'-4"	11'-5"	10'-3"	17'-7"	16'-4"	14'-8"
400S137	33	13'-3"	12'-3"	10'-11"	18'-9"	17'-4"	15'-7"
400S137	43	14'-7"	13'-6"	12'-0"	20'-7"	19'-0"	17'-0"
400S162	33	15'-0"	13'-11"	12'-6"	21'-5"	19'-10"	17'-9"
400S162	43	16'-7"	15'-3"	13'-8"	23'-4"	21'-7"	19'-4"
600S125	27	12'-5" ●	11'-6" ●	10'-4" ●	17'-11" ●	16'-6" ●	14'-9" ●
600S125	30	12'-9"	11'-10"	10'-8"	18'-5"	17'-1"	15'-3"
600S125	33	13'-2"	12'-3"	11'-0"	18'-11"	17'-7"	15'-10"
600S125	43	14'-6"	13'-4"	11'-11"	20'-6"	19'-0"	17'-0"
600S137	33	14'-11"	13'-9"	12'-5"	21'-5"	19'-10"	17'-10"
600S137	43	16'-3"	15'-0"	13'-5"	23'-1"	21'-5"	19'-3"
600S162	33	16'-11"	15'-8"	14'-1"	24'-5"	22'-8"	20'-5"
600S162	43	18'-5"	17'-0"	15'-3"	26'-4"	24'-4"	21'-11"

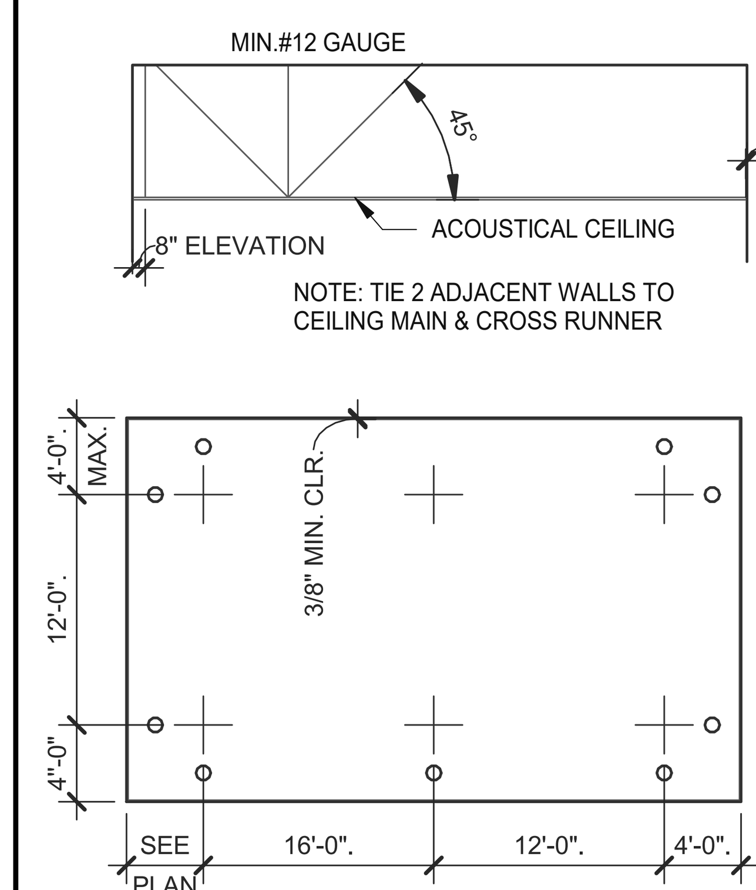
● INDICATES THAT WEB STIFFENERS ARE REQUIRED AT ENDS

NOTE: ALL JOIST INFORMATION IS BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) **ICC ESR-3064P**

ALLOWABLE CEILING SPANS-L/240 12" = 1'-0" | 3



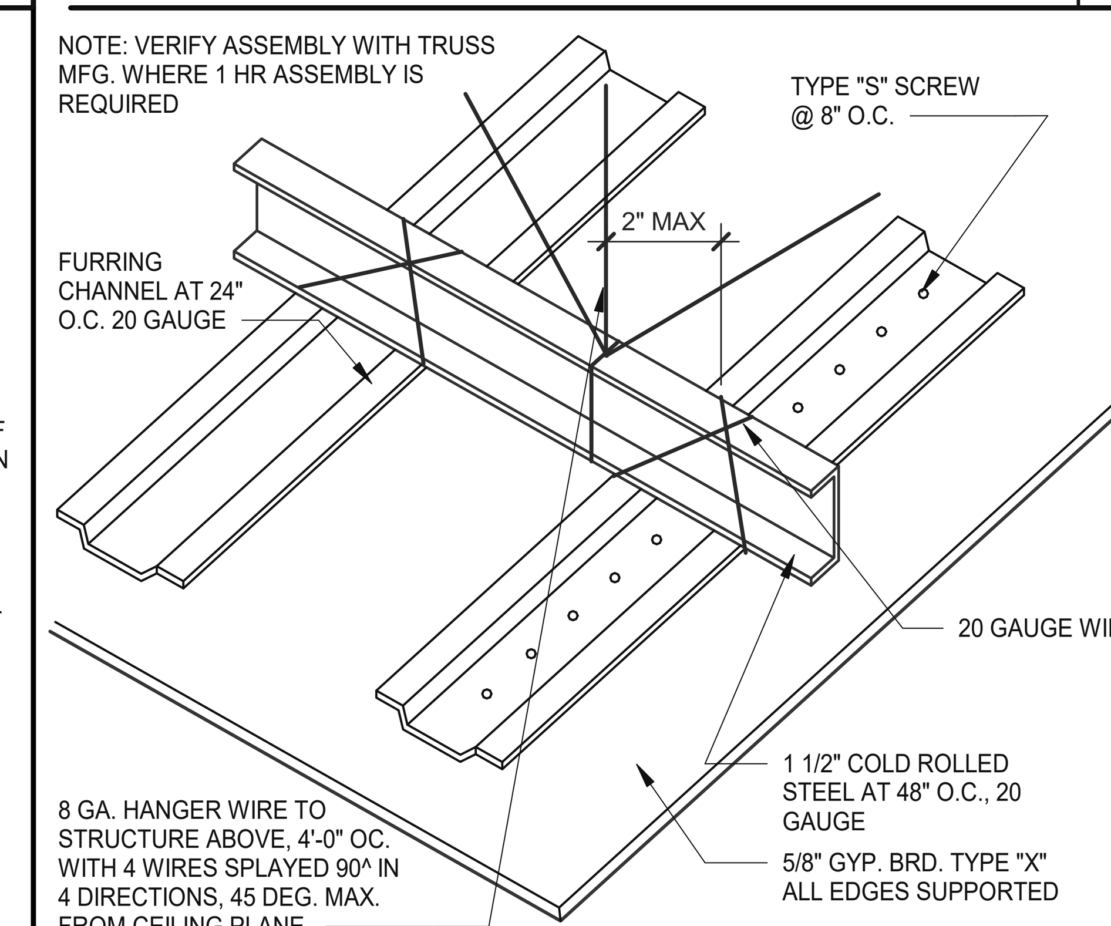
CEILING HEADER TRANSITION 3" = 1'-0" | 14



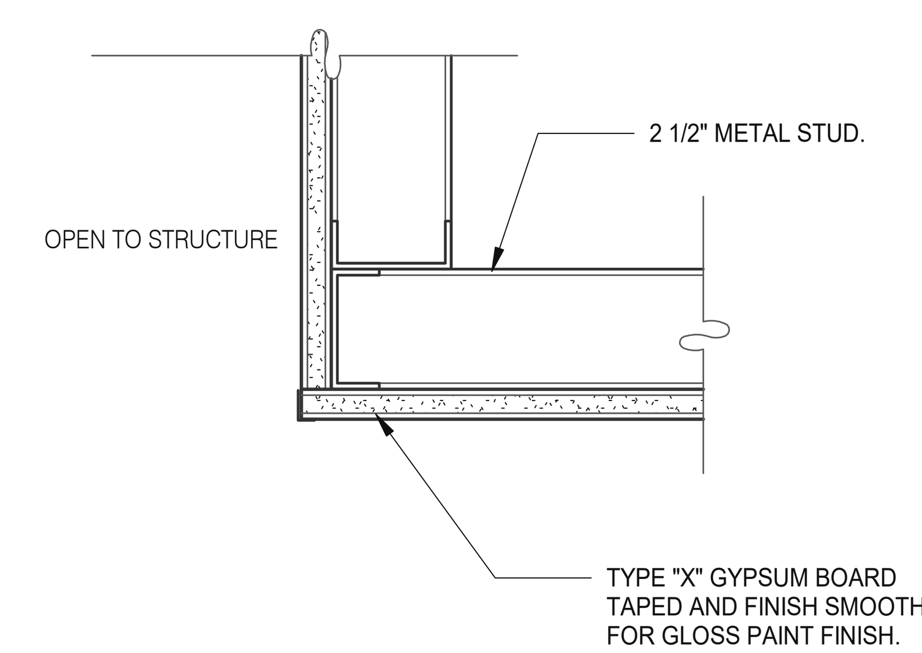
NOTE: TIE 2 ADJACENT WALLS TO CEILING MAIN & CROSS RUNNER

CEILING GRID USES #12 GUAGE SPLAY WIRE HANGERS AT 45 DEG. AND 90 DEG. TO EACH OTHER (4 WIRES) BEGINNING 48" FROM STARTING POINT OF GRID AND TILE LAYOUT AND IN BOTH DIRECTIONS AT 12'-0" THEREAFTER ALL CLEARANCES. TIES TO WALL, ETC.TO CONFORM TO STATE & LOCAL CODES.

SUSPENDED CEILING GRID 12" = 1'-0" | 10



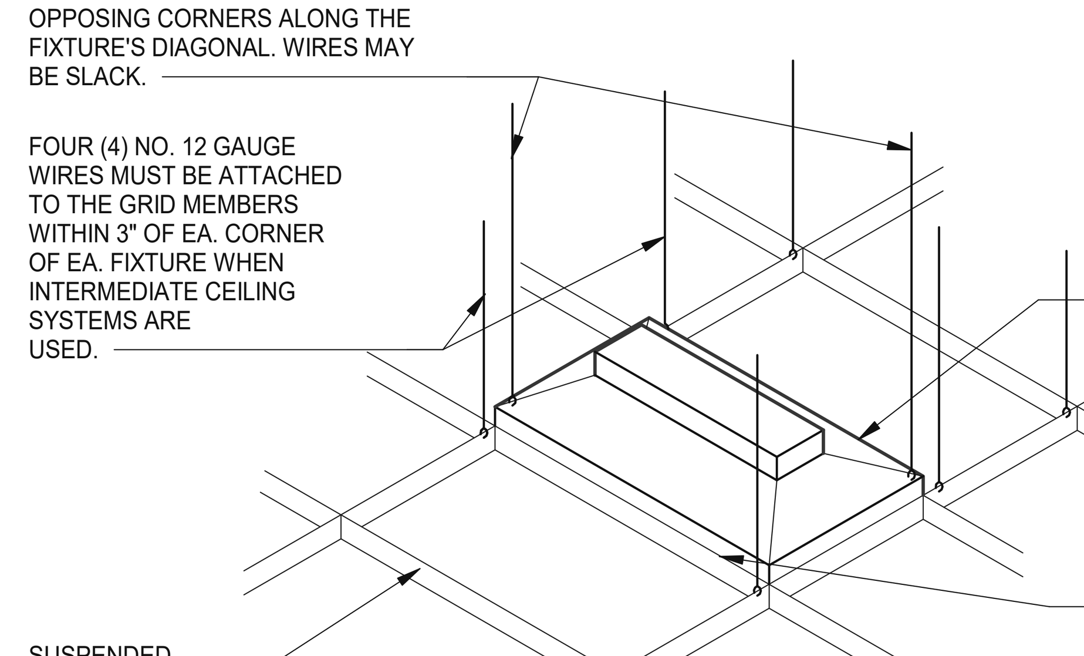
GYPSUM BOARD CEILING 3" = 1'-0" | 6



CEILING TRANSITION 3" = 1'-0" | 11

TWO (2) NO. 12 GAUGE WIRES MUST BE SECURED FROM LIGHT & MECHANICAL FIXTURES AT OPPOSING CORNERS ALONG THE FIXTURE'S DIAGONAL. WIRES MAY BE SLACK.

FOUR (4) NO. 12 GAUGE WIRES MUST BE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EA. CORNER OF EA. FIXTURE WHEN INTERMEDIATE CEILING SYSTEMS ARE USED.



LATERAL FORCE BRACING MEMBERS MUST BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZ. FORCES. BRACING WIRES MUST BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOADS, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

PROVIDE MINIMUM OF 2 SCREWS AT OPPOSIT CORNERS OF SUPPORT WIRES, OR SCREW ON T-BAR SAFETY CLIPS AT SIDES OR ENDS.

LIGHT FIXTURE @ SUSP. CLNG. 12" = 1'-0" | 8

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PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

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ENDEAVOR 2.0
CEILING DETAILS

A6.5

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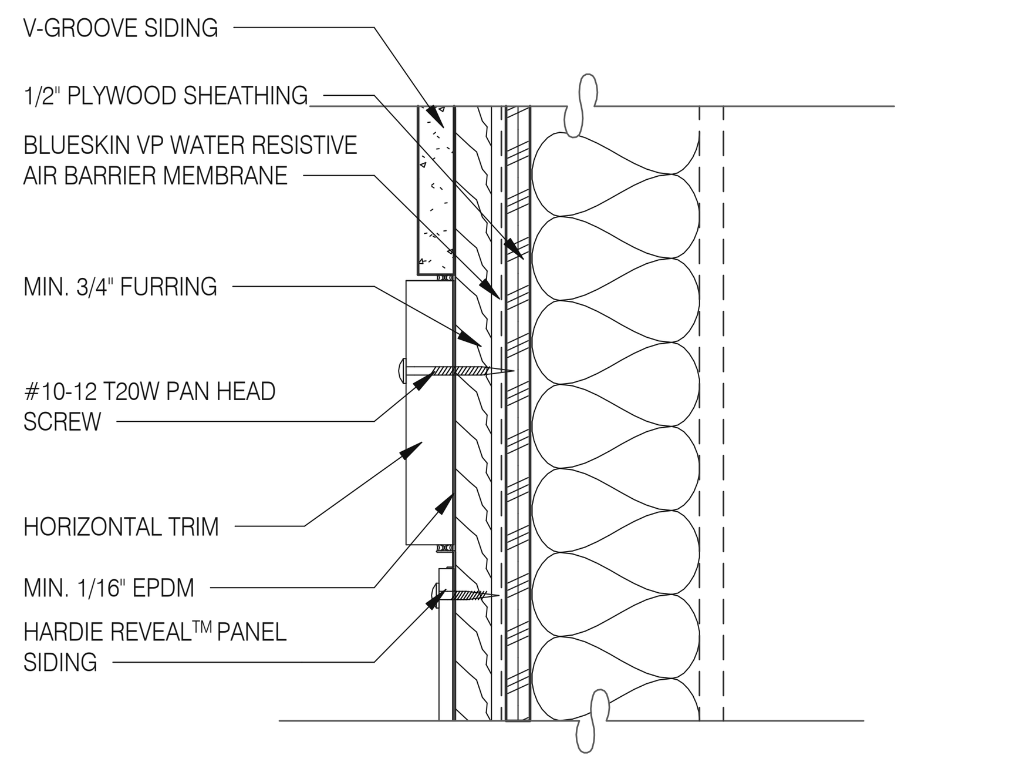
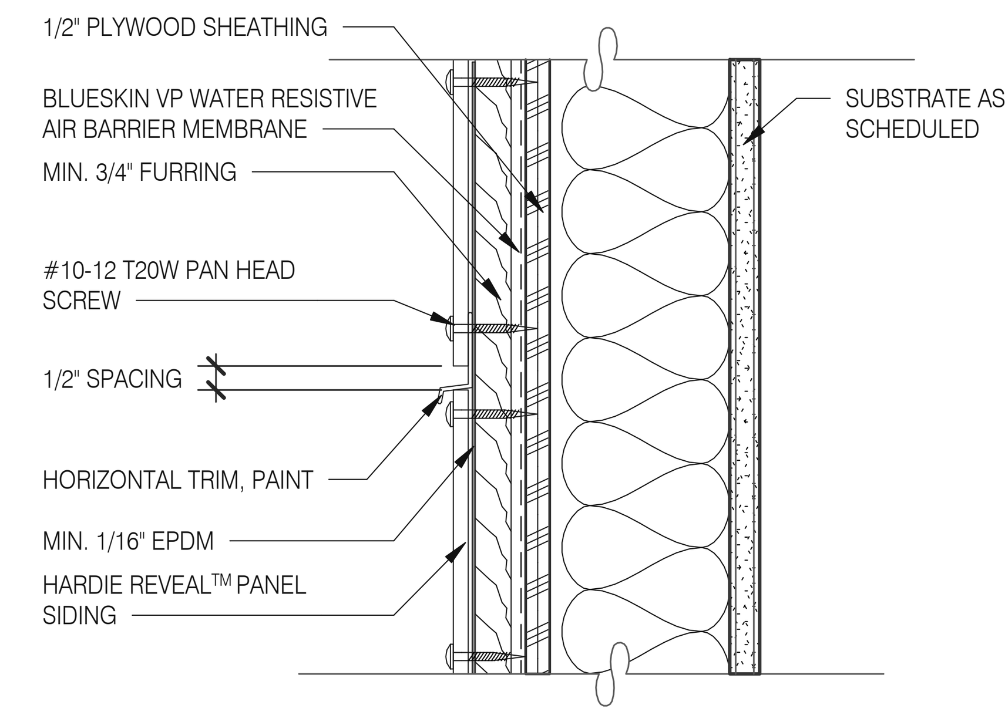
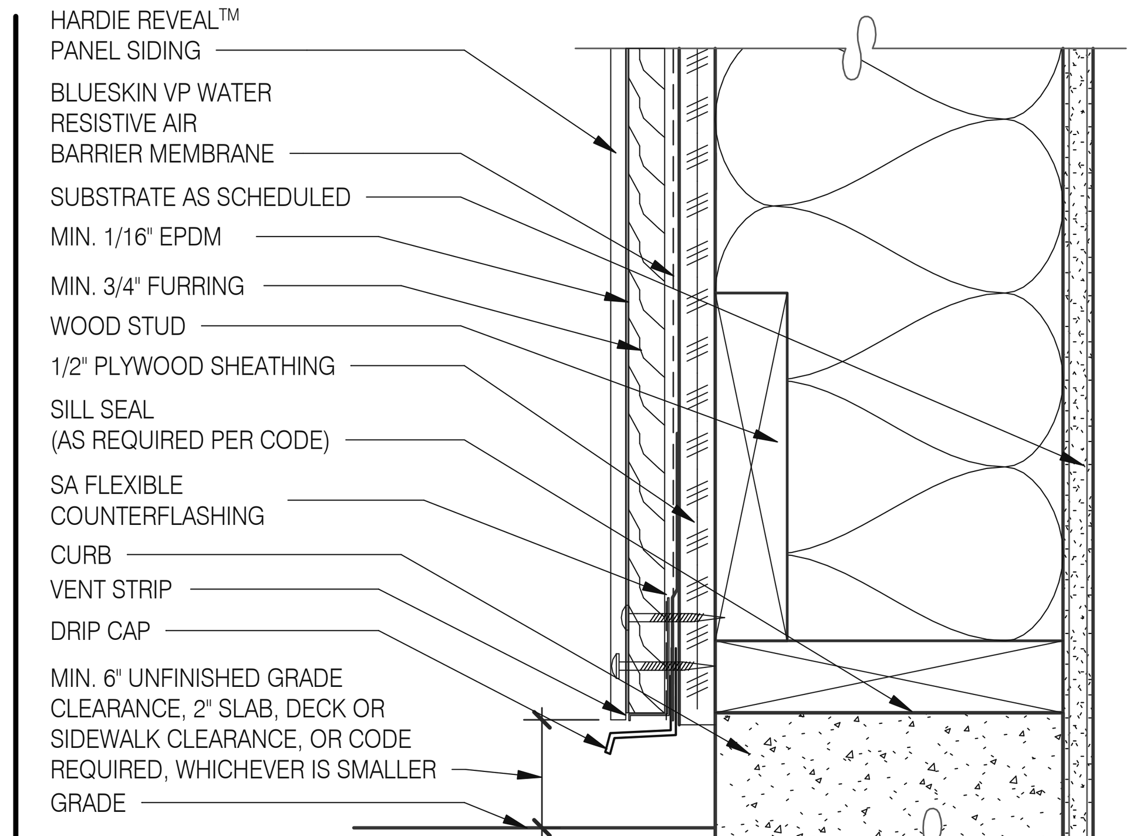


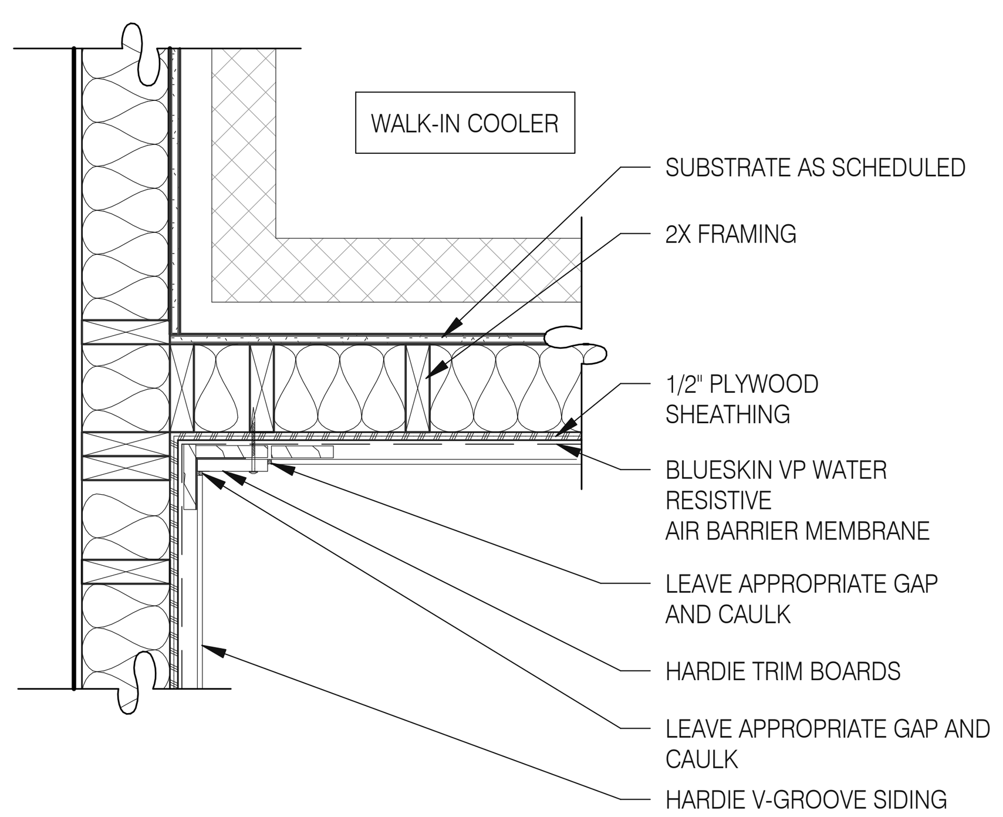
PANEL WITH HORIZONTAL TRIM 3" = 1'-0" 13



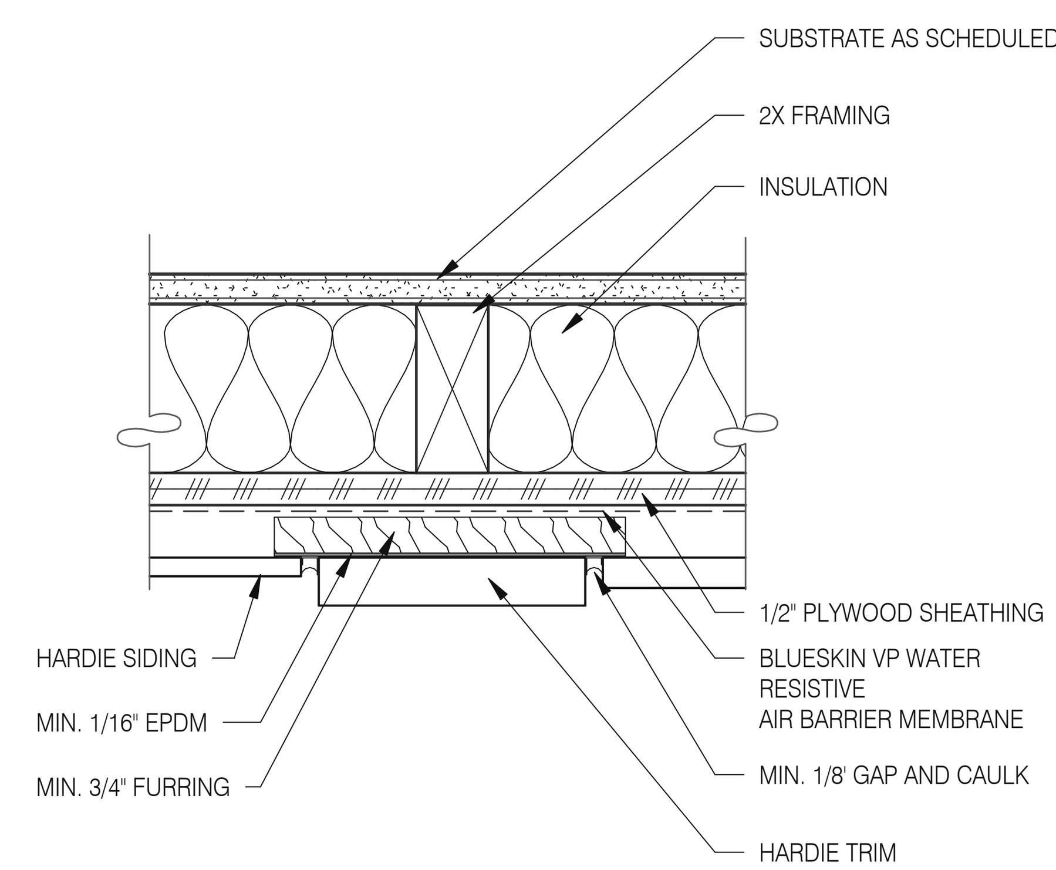
PANEL WITH HORIZONTAL TRIM 3" = 1'-0" 9



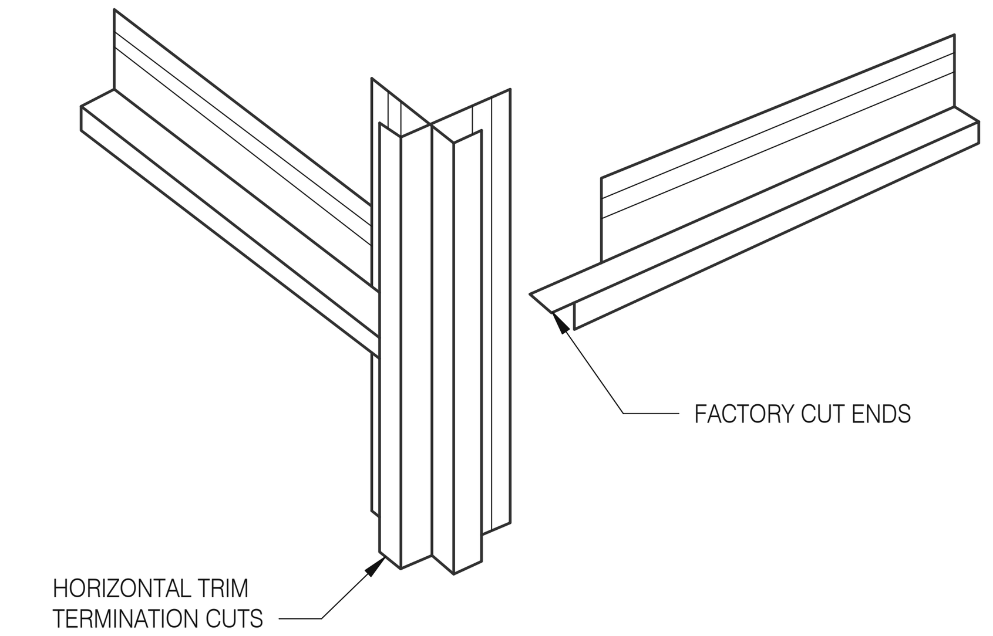
FOUNDATION @ GRADE 3" = 1'-0" 5



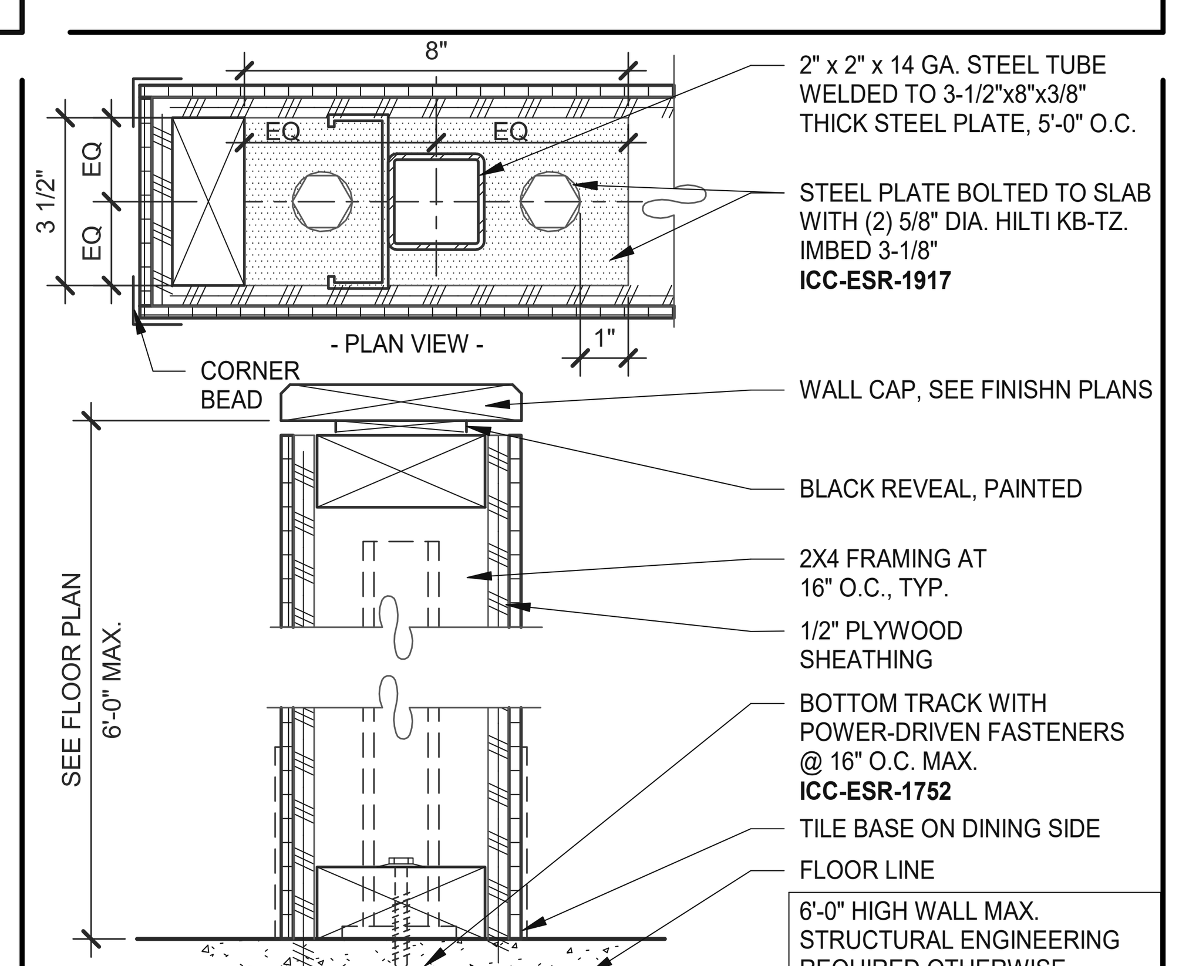
WALK-IN COOLER DETAIL 1" = 1'-0" 18



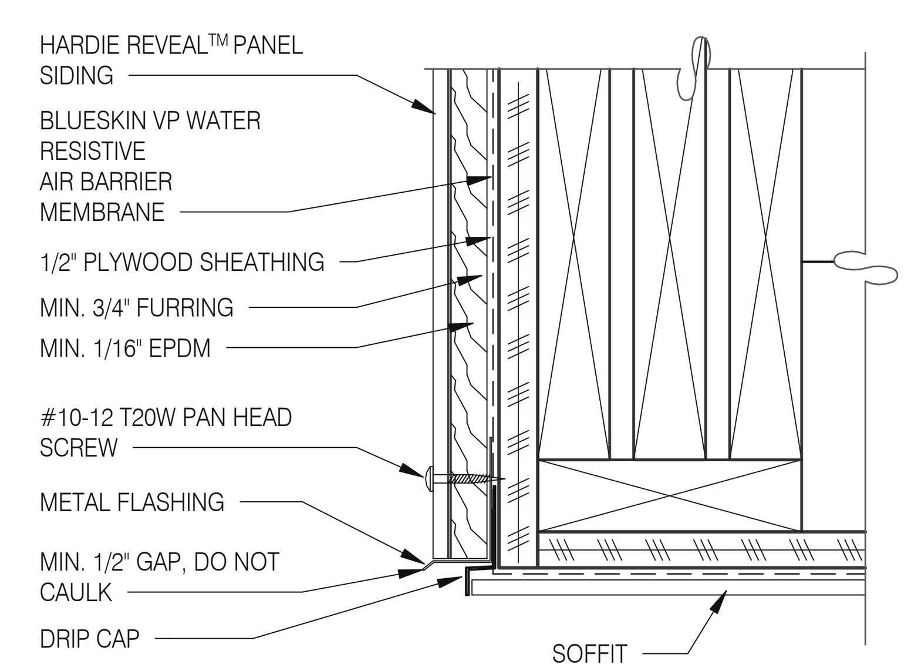
PANEL WITH VERTICAL TRIM 3" = 1'-0" 10



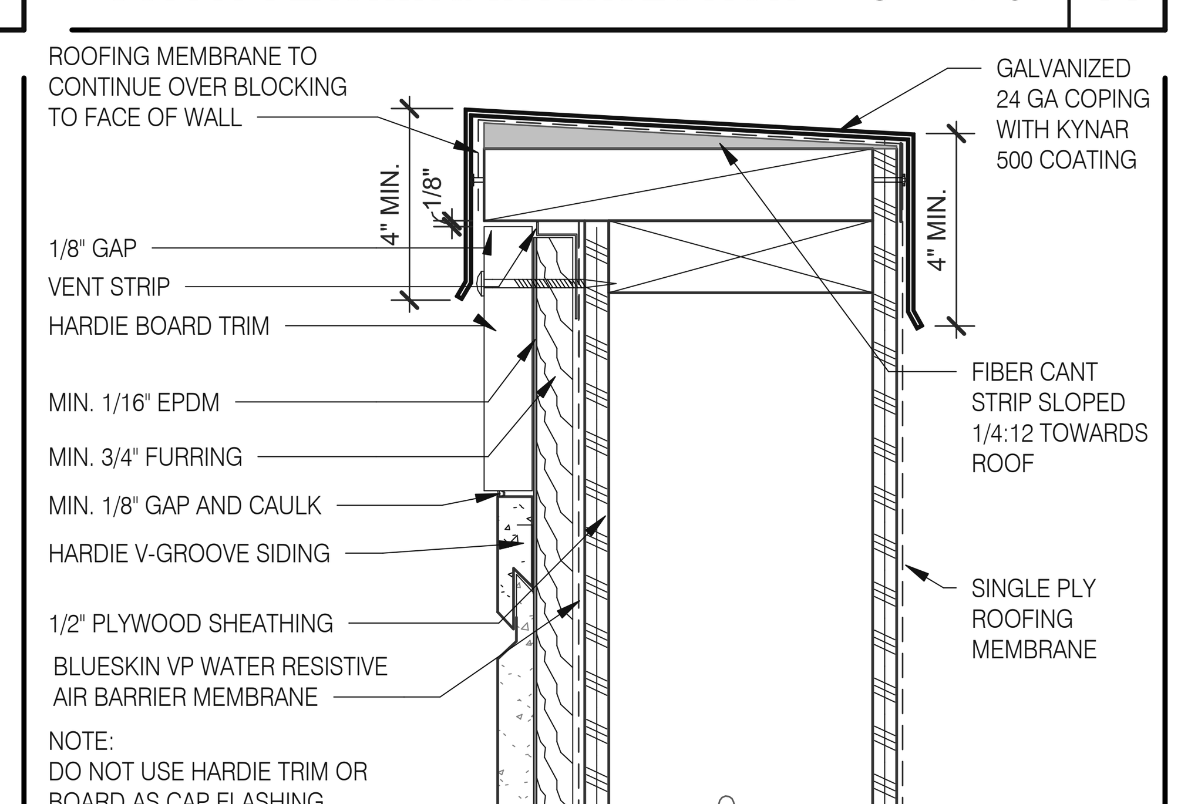
HOR. TRIM - TERMINATION N.T.S. 6



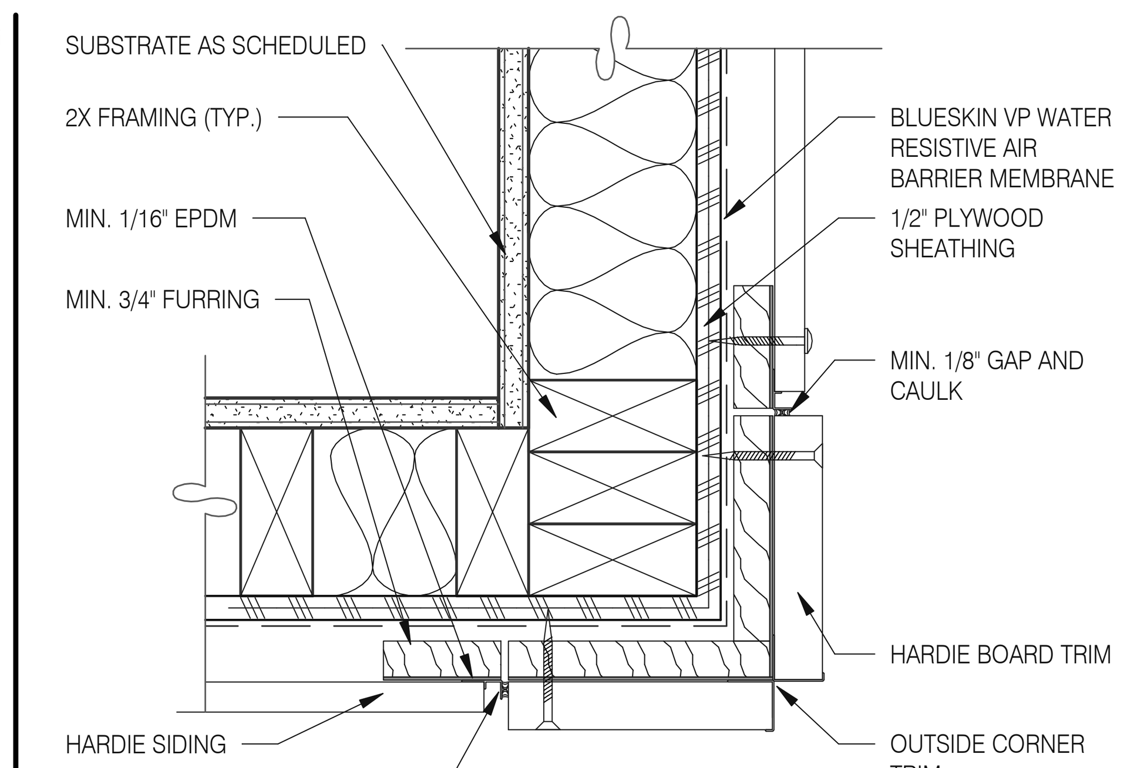
LOW WALL 3" = 1'-0" 15



SOFFIT FLASHING INTERSECTION 3" = 1'-0" 11



VENTED PARAPET WALL 3" = 1'-0" 12



OUTSIDE CORNER TRIM 3" = 1'-0" 8

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TACO BELL

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HARDIE BOARD DETAILS

A6.6

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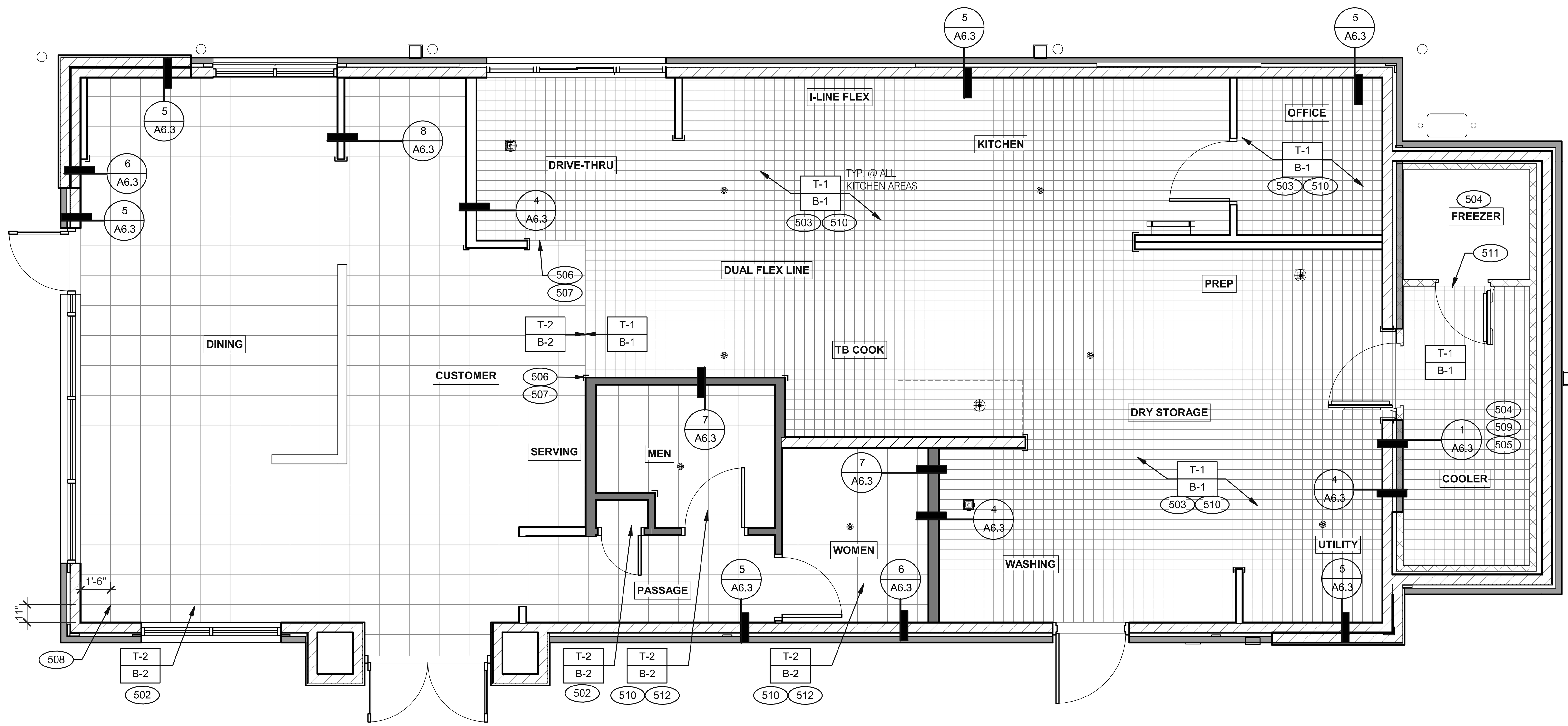

FLOOR FINISH PLAN 1/4" = 1'-0" A

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STORE NUMBER: 454826
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TACO BELL

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Mount Holly, NC 28120

TACO BELL

ENDEAVOR 2.0
FLOOR FINISH PLAN

A7.0

PLOT DATE: 3/31/2022 1:02:52 PM

NOT USED D

FLOOR FINISH NOTES C

A. ▭ DENOTES FINISH MATERIAL. REFER TO SHT A7.2 FOR FINISHES

B. TILE JOINT (U.O.N.):
1.QUARRY FLOOR TILE: 1/4"
2.PORCELAIN FLOOR TILE: 3/16"
3.GLAZED WALL TILE: 1/8"
4.BASE, TRIM AND ACCESSORIES: MATCH ADJOINING TILE UNITS

C. TILE INSTALLATIONS REQUIRE MANUFACTURERS STANDARD MOLDED CORNERS AT BOTH INSIDE AND OUTSIDE CORNERS.

D. ALL BASE TILE SHALL BE SANITARY COVE STYLE WITH 3/8" MIN RADIUS UNLESS NOTED OTHERWISE.

E. SEE SCOPE OF WORK SHEETS FOR RESPONSIBILITIES.

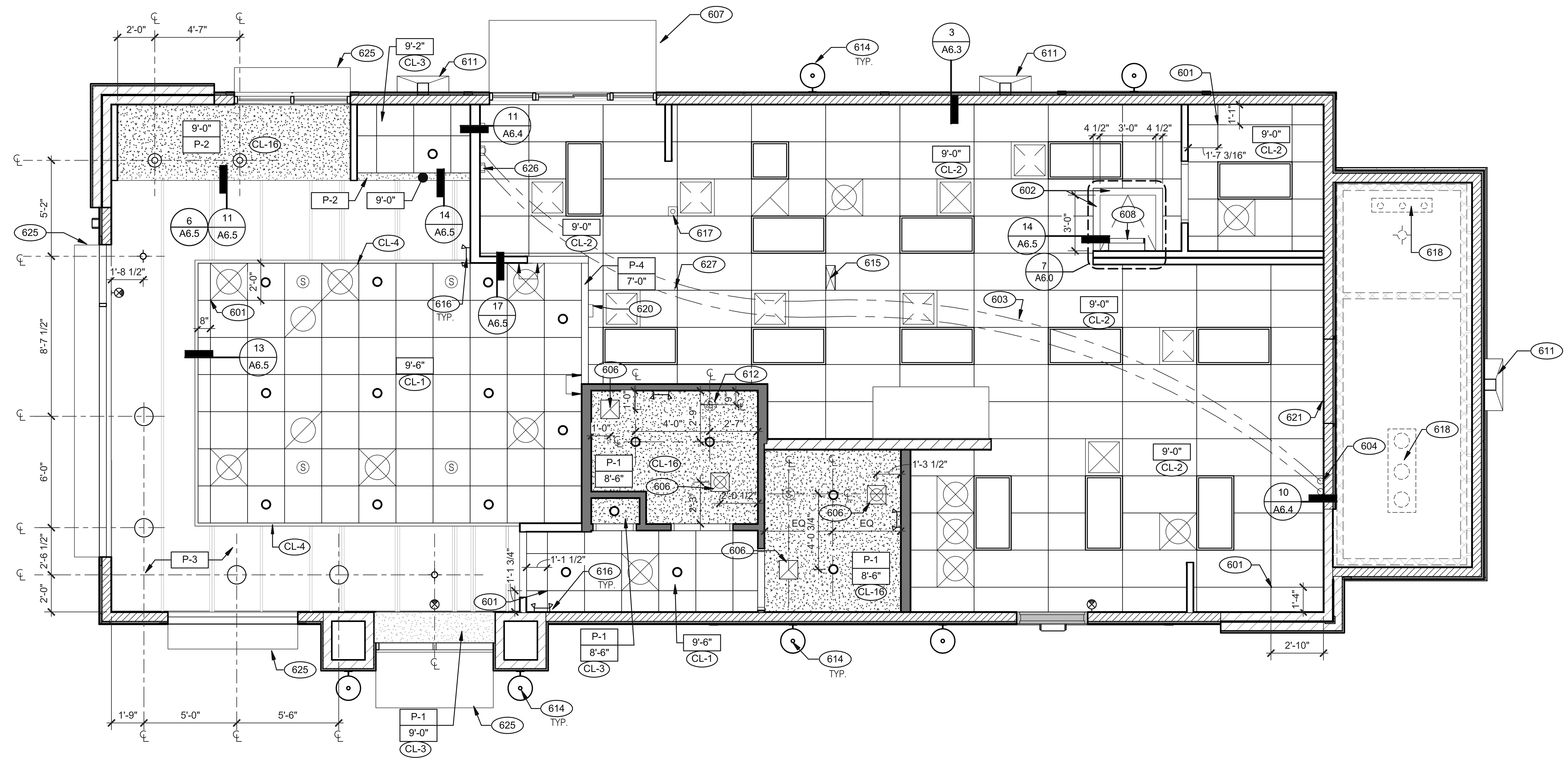
F. PROVIDE CLEAR SILICONE CAULK WHERE FRP STOPS AT TOP OF COVE BASE.

G. TILE CHIPPING AROUND CORE DRILL HOLES FOR SEATING FIXTURE WILL NOT BE ACCEPTED.

KEY NOTES B

502 6" COVE TILE BASE. SEE DETAILS 5 & 8/A6.3.
503 6" SANITARY COVE TILE BASE. SEE DETAILS 4, 6/A6.3.
504 PROVIDE FLOOR TILE INSIDE WALK-IN COOLER (NO TILE OR BASE IN FREEZER). FLOAT FLOOR TILE IN COOLERS TO DRAIN TO KITCHEN. COORDINATE WITH COOLER WALL CONFIGURATION.
505 NO BASE TILE BEHIND W-059 FOR WALK-IN COOLER/FREEZER.
506 ALIGN FLOOR TILE TRANSITION WITH FACE OF WALL.
507 FLOAT FLOOR TILE FOR FLUSH TRANSITION.
508 START POINT FOR FLOOR TILE.
509 METAL BASE IN COOLER; SEE SCOPE OF WORK. SEE DETAIL 1/A6.3.
510 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE FLOOR SLOPES AROUND FLOOR DRAINS.
511 STEP-UP AT FREEZER THRESHOLD.
512 SANITARY TILE BASE IN RESTROOM.

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



N

REFLECTED CEILING PLAN 1/4" = 1'-0" **A**

Symbol	Description	Symbol	Description
	1'-0" x 4'-0" LED TROFFER		EXIT LIGHT (WALL MOUNTED)
	2'-0" x 4'-0" LED TROFFER		EXIT LIGHT (CEILING MOUNTED)
→	2'-0" x 4'-0" LED LIGHT FIXTURE		EXTERIOR WALL FIXTURE
	DOWNLIGHT @ WALK-IN (BY WALK-IN MFR.)	S	SPEAKER - CENTER ON CEILING TILE
	PENDANT FIXTURE.		12' EXHAUST FAN
	DOWNLIGHT - CENTER ON CEILING TILE		HVAC RETURN GRILLE
	EMERGENCY LIGHT		HVAC SUPPLY DIFFUSER
			BACK DOOR SECURITY STROBE LIGHT
			OCCUPANCY SENSOR. CEILING MOUNTED

CEILING SYMBOL LEGEND **D**

DIMENSIONS:
A. ALL DIMENSIONS ARE TO FACE OF FINISH U.O.N.

CEILING FINISHES:
A. REFER TO ROOM FINISH SCHEDULE (SHT A7.2) FOR CLG. FINISHES.

SUSPENDED CEILING:
A. ACOUSTICAL PANEL INSTALLATION: INSTALL ACOUSTICAL PANELS WITH EDGES IN CLOSE CONTACT WITH METAL SUPPORTS AND IN TRUE ALIGNMENT.
B. ALLOWABLE VARIATIONS FROM FLAT AND LEVEL SURFACE: 1/8" IN 10'-0" MAX.
C. ALLOWABLE VARIATIONS FROM PLUMB OF GRID MEMBERS: AS CAUSED BY ECCENTRIC LOADS, 2° MAX.
D. INSTALL SYSTEM AFTER MAJOR ABOVE CLG. WORK IS COMPLETE. COORD LOCATIONS OF HANGERS WITH RELATED WORK.
E. SEE SPECS FOR ADDITIONAL INFORMATION.

GYPSUM BOARD CEILING:
A. SUBSTRATE SHALL BE 1/2" THICK GYP BD.
B. ACOUSTICAL SEALANT: APPLY TO GYP. BD. PANELS AS INDICATED IN SPECS. GYP. BD. FINISHING AND DECORATING: REFER TO DWGS FOR TEXTURE AND FINISHES.

ELECTRICAL:
A. SEE ELECT. DWGS. FOR FIXTURE SCHED.

REFLECTED CEILING PLAN NOTES **C**

601 CEILING GRID AT STARTING POINT.
602 BULKHEAD @ 8'-0" A.F.F.
603 NON-INSULATED BUNDLED SYRUP LINES FOR DRINK SYSTEM. SEE SCOPE OF WORK.
604 6" DIAMETER PVC STUB THROUGH CEILING, SEE DETAIL 10/A6.4.
606 FOR ROUGH FRAMING OPENINGS SEE AIR DEVICE SCHEDULE (TYP. ALL RESTROOMS).
607 DRIVE-THRU CANOPY.
608 ROOF HATCH.
611 VERTICAL DOWNSPOUT.
612 SPEAKER. CENTER ON CEILING TILE, UON.
614 EXTERIOR WALL LIGHT FIXTURES, SEE ELEVATIONS AND ELECTRICAL DRAWINGS.
615 UTILITY CHASE BY 3RD PARTY VENDOR TO CEILING.
616 EMERGENCY DUAL HEAD FIXTURE. SEE ELECTRICAL DRAWINGS.
617 SECURITY STROBE LIGHT, REFER TO ELECTRICAL DRAWINGS.
618 FAN COIL FOR WALK-IN.
620 ALERT LIGHT BOX FOR 3-COMP POWER SOAK MOUNTED AT CENTERLINE OF BOX 7'-11" A.F.F.
621 30"X30" ACCESS OPENING IN REAR WALL ABOVE CEILING. FINISH WITH GYP. BD.
625 AWNING, SEE SCOPE OF WORK.
626 STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 11/A6.4.
627 WATER INLET CHASE FOR CHEESE MELTER SCREWED TO HEATED AIR SCREEN.

KEY NOTES **B**

GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	11.18.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseegee Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
REFLECTED CEILING PLAN

A7.1

PLOT DATE: 3/31/2022 1:02:55 PM

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

FINISH LEGEND

SYMBOL	MANUFACTURER	STYLE	COLOR	SIZE	GROUT	COMMENTS
CEILING						
CL-1	USG	ACT SYSTEM, USG RADAR, CLIMAPLUS PERFORMANCE, SQ EDGE	#107 TAUPE	2X2	N/A	USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #107 TAUPE
CL-2	USG	ACT SYSTEM, USG CLEAN ROOM ACOUSTICAL PANELS, CLIMAPLUS PERFORMANCE, SQ EDGE	#050 WHITE	2x4	N/A	CLASS 100 (ISO 5) PANELS, USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #050 WHITE
CL-3	USG	ACT SYSTEM, USG CLEAN ROOM ACOUSTICAL PANELS, CLIMAPLUS PERFORMANCE, SQ EDGE	#050 WHITE	2X2	N/A	CLASS 100 (ISO 5) PANELS, USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #050 WHITE
CL-4	USG	USG COMPASSO STANDARD	#002 SILVER SATIN	10"H PROFILE		SEE PLANS AND DETAILS FOR MORE INFO
CL-16	N/A	GYPSUM BOARD	PAINTED PER RCP			
CHAIR RAIL						
CR-1	SW	SW7043	WORLDLY GRAY	3 1/2" X 3/4"		SEMI-GLOSS
FLOOR BASE						
B-1	CMC	QUARRY	PURITAN GREY #507	6X6	MAPEI #9 GRAY, 1/8" JOINT WIDTH	KERAPOXY GROUT IEG CQ
B-2	CMC	MOTIF GREY	GREY	6X12	MAPEI, #2 PEWTER, 1/8" JOINT WIDTH	
FLOORING						
T-1	CMC	QUARRY	PURITAN GREY #507	6X6	MAPEI #9 GRAY, 1/8" JOINT WIDTH	KERAPOXY GROUT IEG CQ
T-2	CMC	MOTIF GREY	GREY	18X18	MAPEI, #2 PEWTER, 1/8" JOINT WIDTH	
FRP/LAMINATE						
FRP-1	MARLITE	SMOOTH SURFACE	S100 S/2/S WHITE	4' X 9' X .90		COORDINATE ALL TRIM PIECES WITH FRP MFG
L-1	WILSONART	4783K FINISH 7	WHITE TIGRIS			OFFICE SHELVING LAMINATE
L-2	WILSONART	Y0664K-12	MOCHA ASH			SOFTGRAIN FINISH, RR/UTILITY DOORS VERTICAL GRADE PRODUCT CODE #362 IS .028" AND HORIZONTAL GRADE PRODUCT CODE #372 IS .039"
CORNER GUARDS						
CG-1	C.S GROUP	ACROVYN VA SERIES	VA-034N #934 PEARL	3/4" X 3/4"		FOR PAINT MATCH P-1
CG-2	C.S GROUP	ACROVYN VA SERIES	VA-034N #262 DRIFTWOOD	3/4" X 3/4"		FOR PAINT MATCH CR-1 & WC-1
METAL TRANSITION						
MT-1	SCHLUTER	JOLLY	A 100 AT - SATIN NICKEL ANODIZED ALUMINUM	3/8"	N/A	TILE EDGE TRIM DETAIL 17/A6.3
MT-3	SCHLUTER	RONDEC - ALUMINUM		3/8"	N/A	TILE EDGE TRIM DETAIL 17/A6.3
SOLID SURFACE						
SS-1	CORIAN	LAVA ROCK	LAVA ROCK			COUNTERTOPS/24" DIAMETER TABLE TOP
WALL COVERING						
WC-1	WOLF GORDON	'RAMPART' HIGH IMPACT WALL COVERING	FOUNDATION/ PIGMENT (GOH 12172606)		RAILROAD INSTALLATION: THERE SHOULD BE NO SEAMS ALONG WALLS	1 ROLL: 80 L.F.
WALL PAINT						
P-1	SHERWIN WILLIAMS	SW7021	SIMPLE WHITE	N/A	N/A	PAINT FINISH: WALLS: EGGSHELL TRIM/BOH: SEMI-GLOSS (CHAIR RAIL) CEILING: FLAT
P-2	SHERWIN WILLIAMS	TB2603C	PURPLE	N/A	N/A	
P-3	SHERWIN WILLIAMS	SW7076	CYBER SPACE	N/A	N/A	
P-4	SHERWIN WILLIAMS	SW7005	PURE WHITE	N/A	N/A	
WALL TILE						
W-1	CMC	FORM	ICE DECO MIX	8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM ACCENT WALL TILE
W-2	CMC	FORM	ICE	8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM WALL TILE
W-3	CMC	SALVAGEWOOD	WHITEWASH	3X36	MAPEI #01 ALABASTER, 1/8" JOINT WIDTH	RUNNING BOND INSTALLATION OFFSET 25%

FINISH LEGEND D

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LISA FYKE
ARCHITECTURAL REPRESENTATIVE
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(909) 247-5324
LFYKE@MAPEI.COM

A72_FINISH CONTACTS N.T.S. C

NOT USED A

NOT USED B

GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

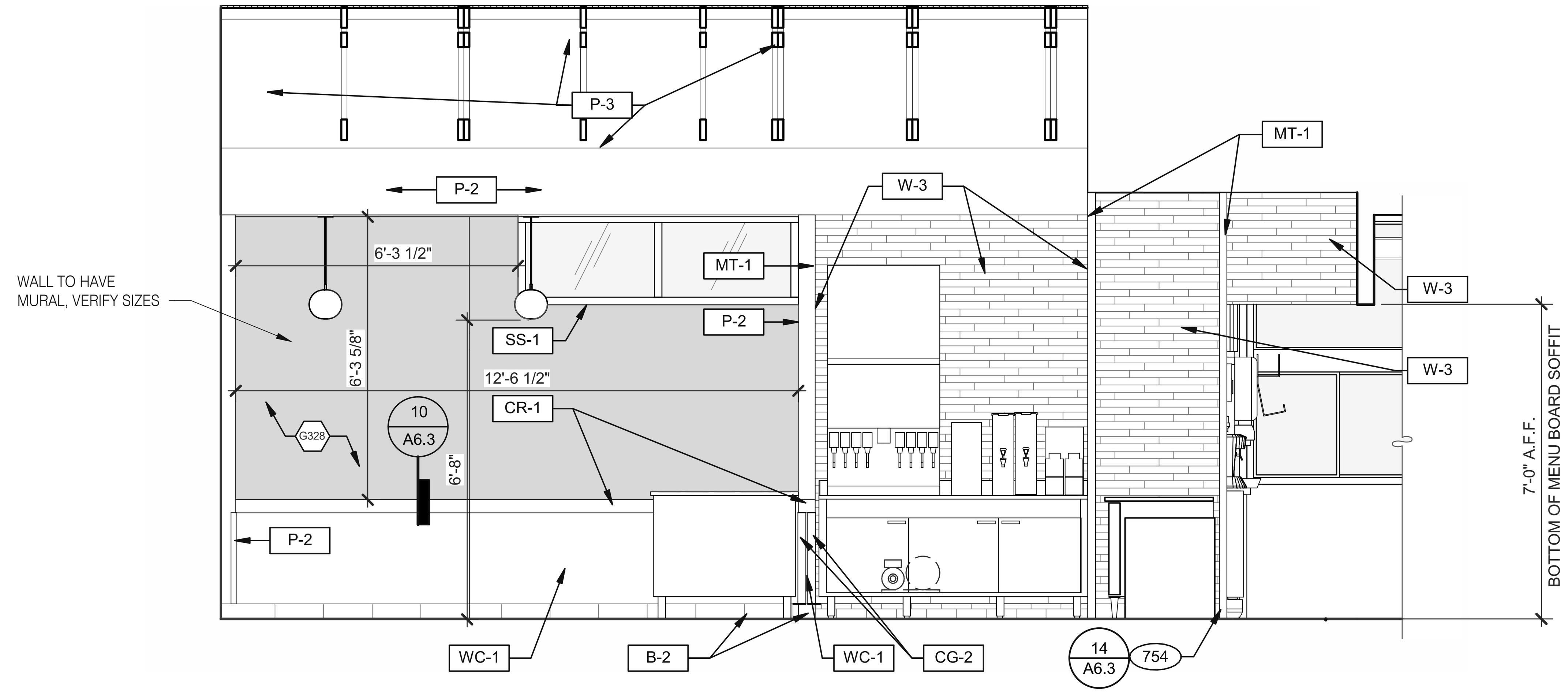
TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
FINISH SCHEDULE

A7.2

PLOT DATE: 3/31/2022 1:02:56 PM



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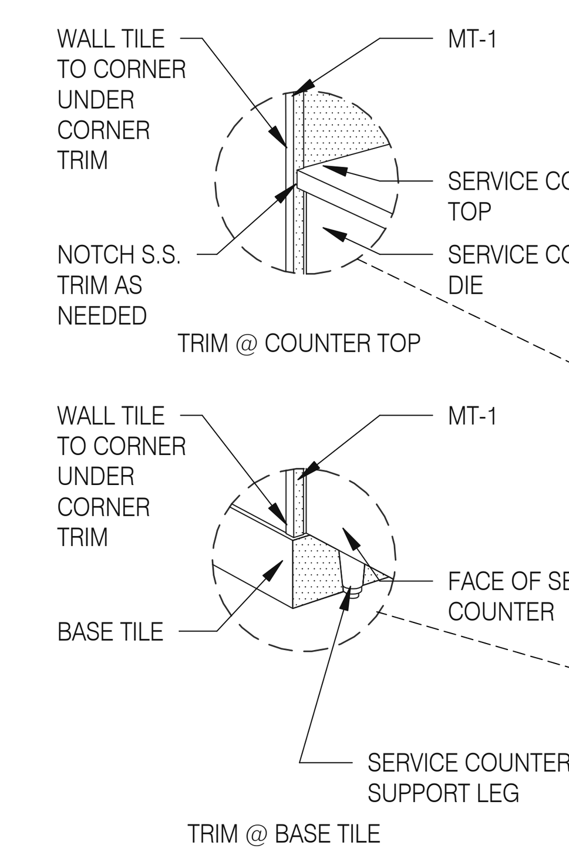
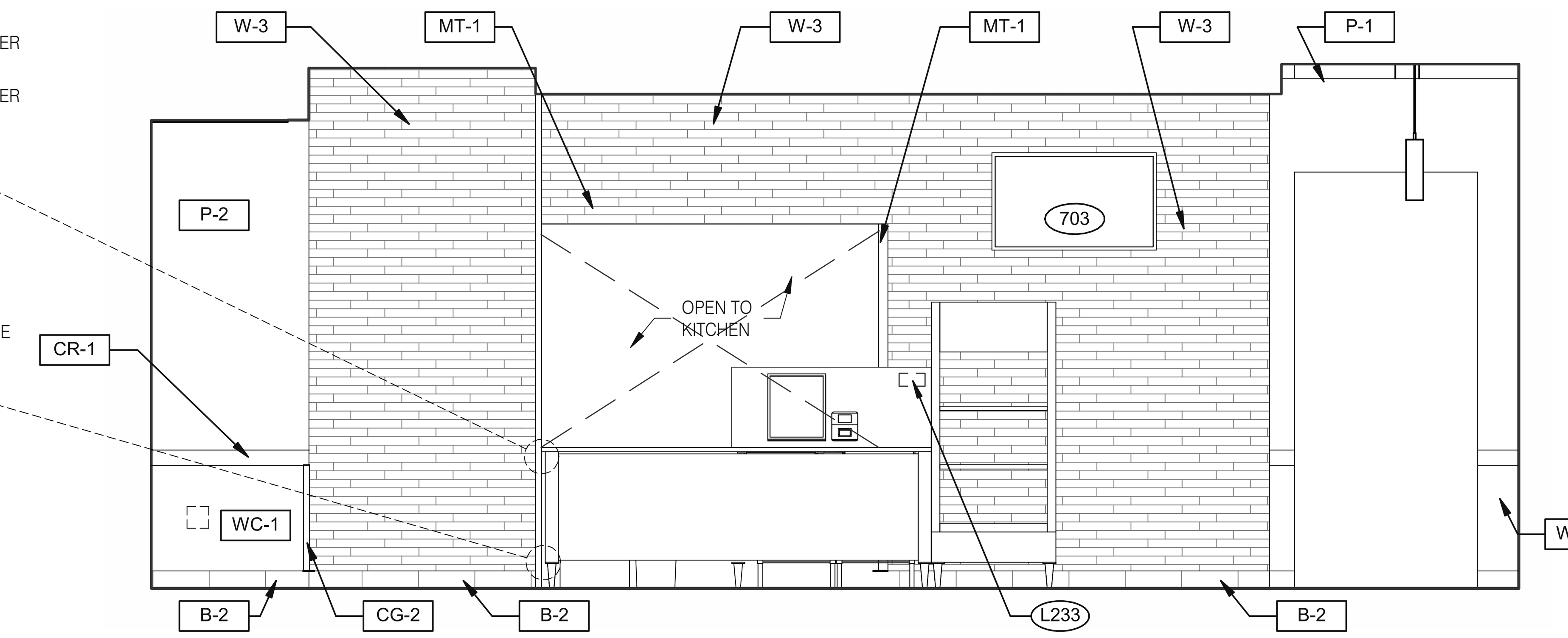
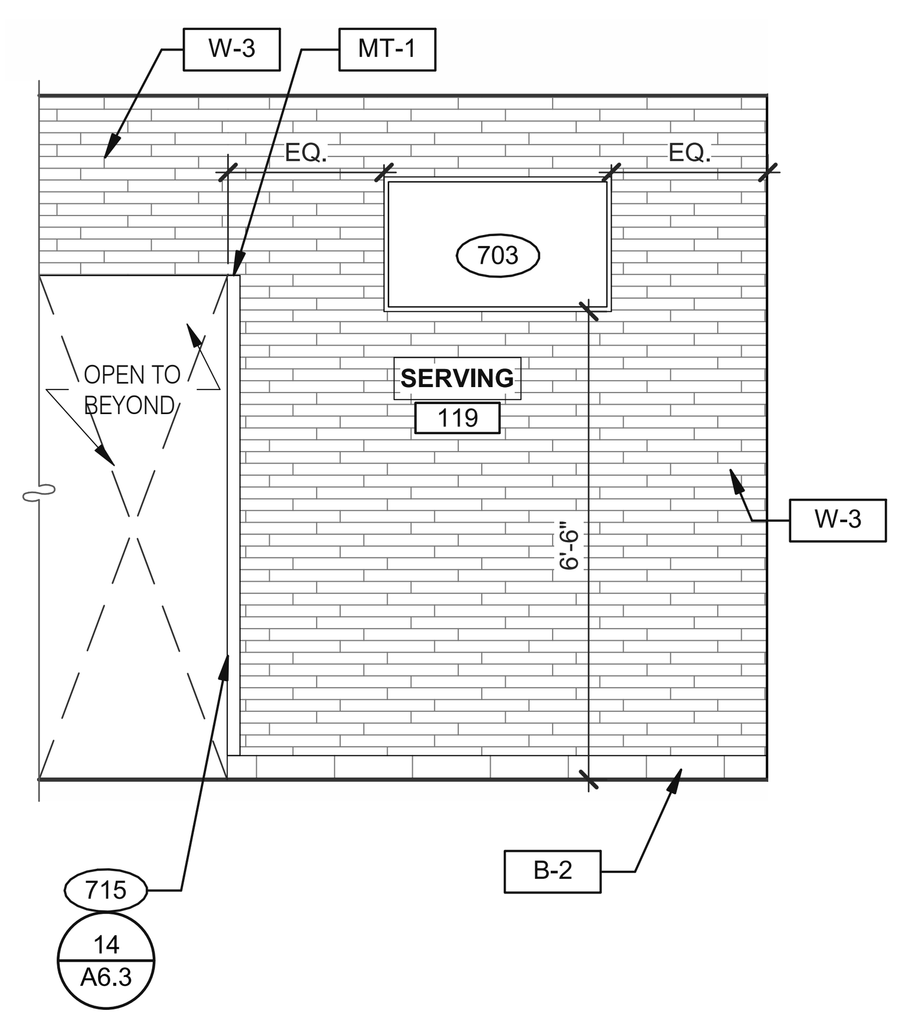




1

DINING 3/8" = 1'-0"



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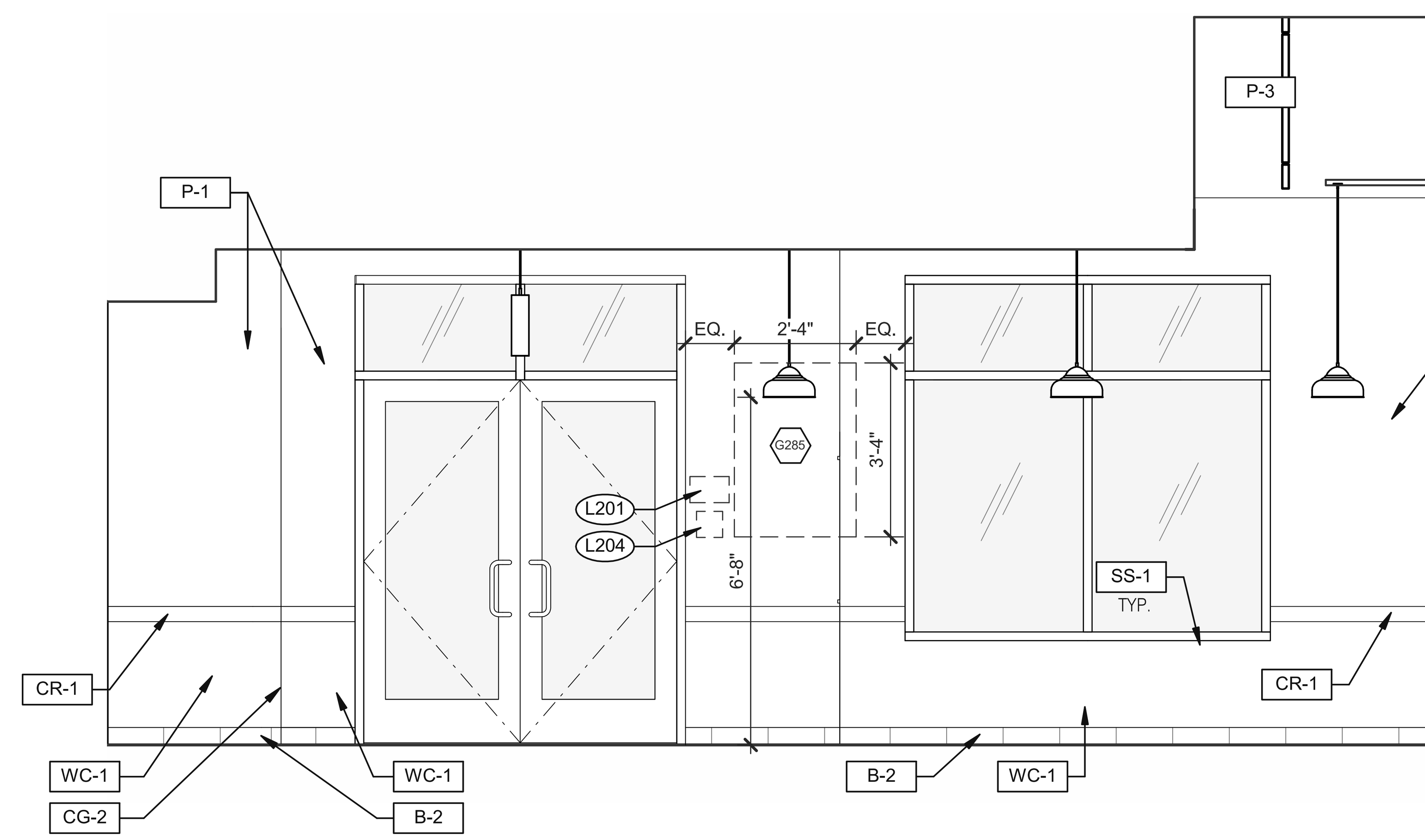

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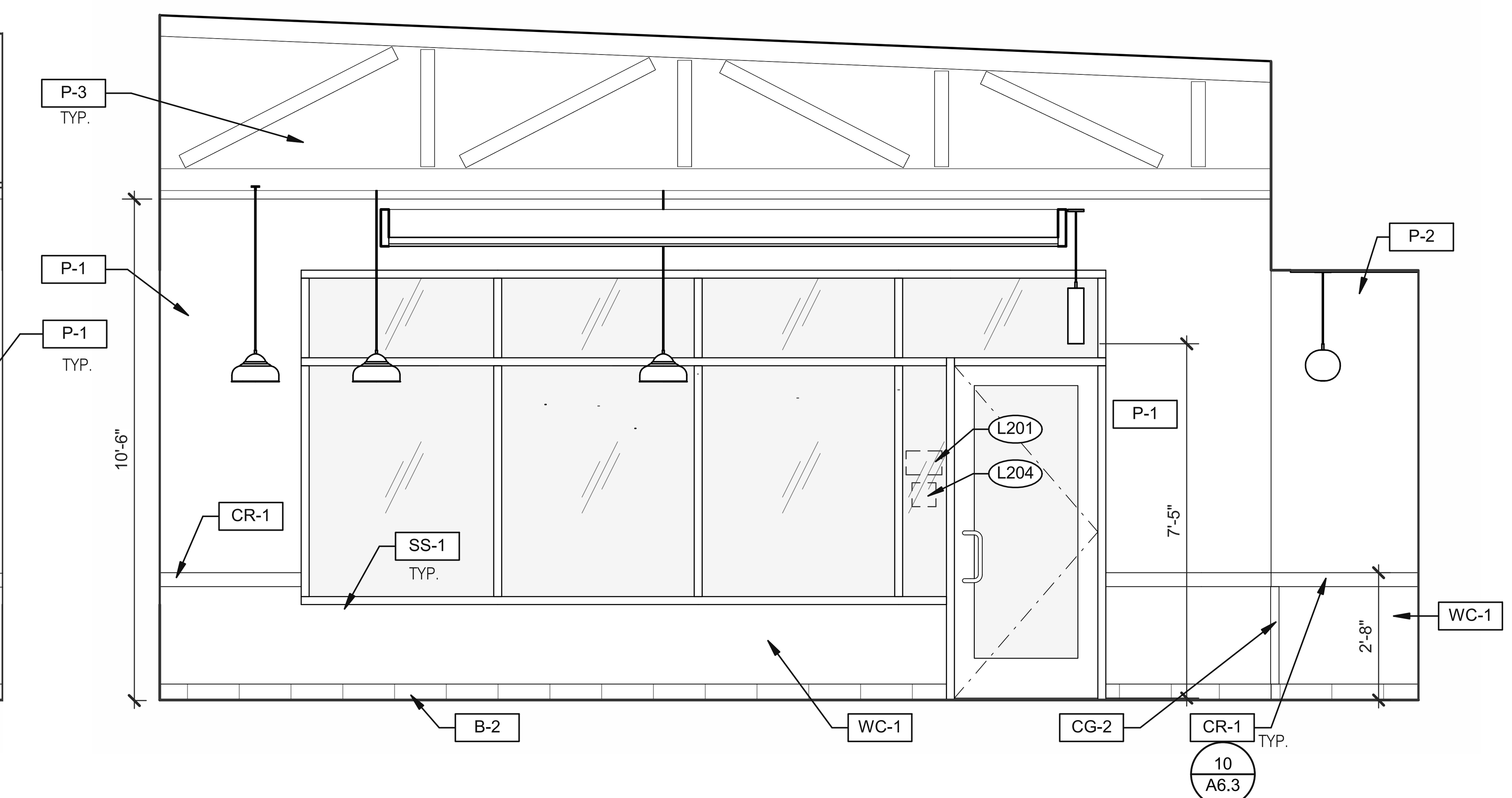

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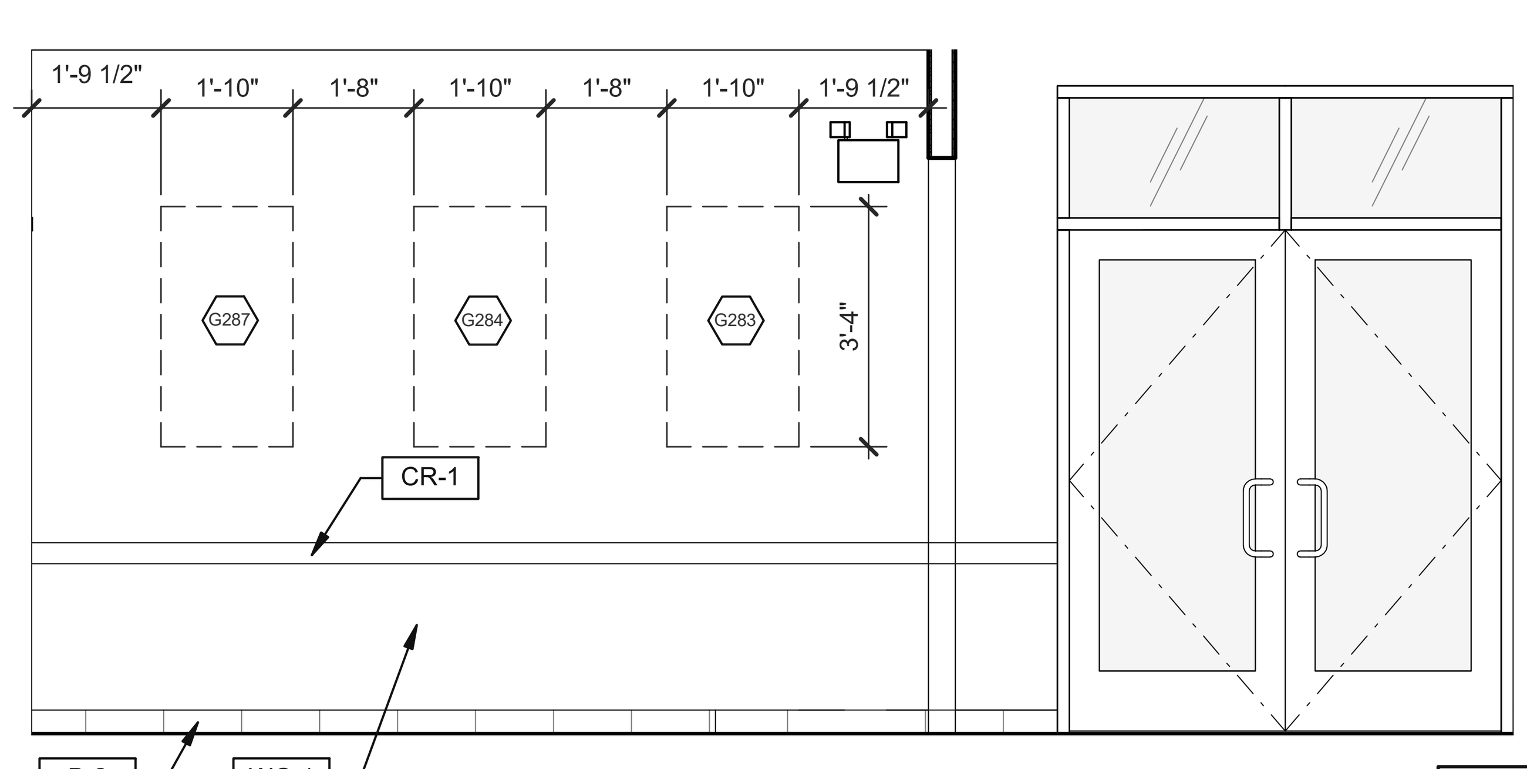
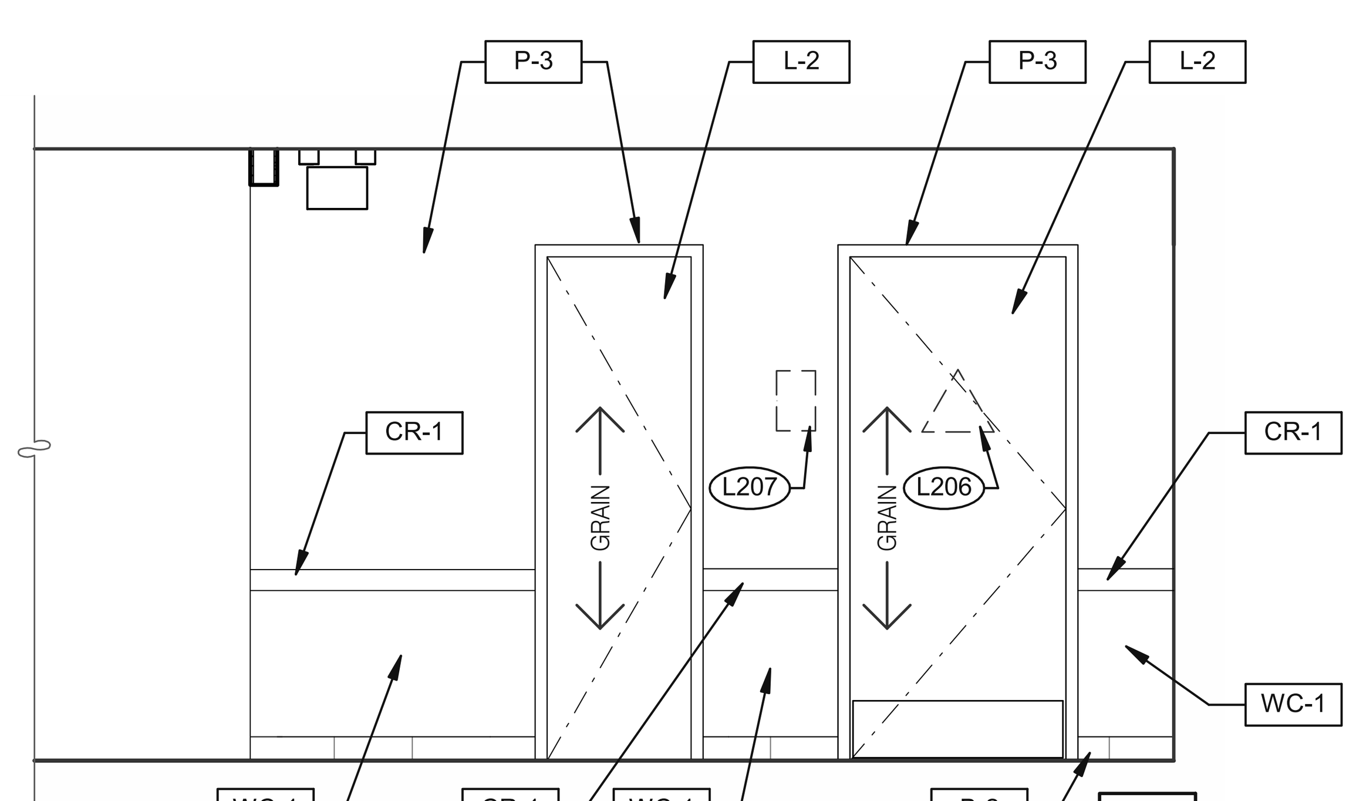
DINING 3/8" = 1'-0"



8

DESIGNER NOTE: CALIFORNIA ADA RESTROOM SIGNAGE SIGNS MUST BE 1/4" THICK, AND IN CONTRASTING COLOR TO THE SURFACE ON WHICH THEY ARE INSTALLED.
DOOR: GENDER NEUTRAL SIGN
(E#: E7000974)
WALL SIGN: FAMILY RESTROOM SIGN WITH BRAILLE
(E#: E76000972)



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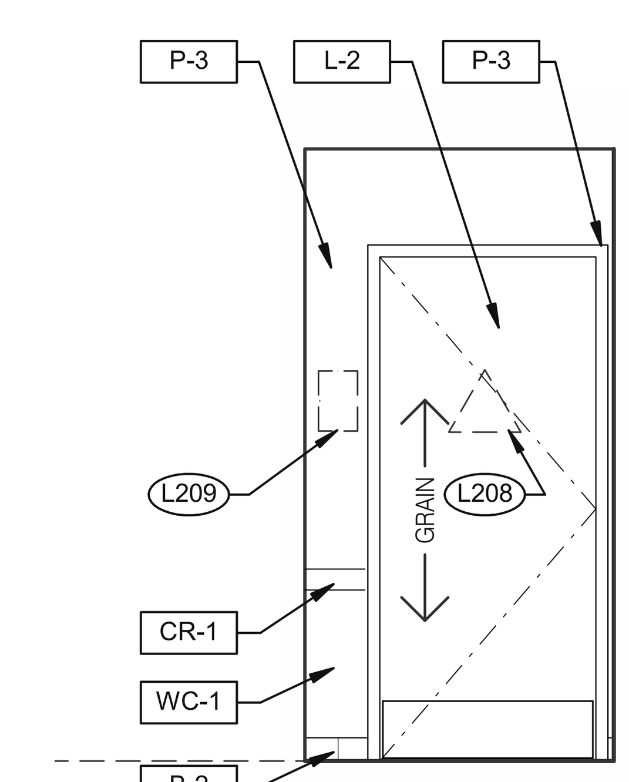

6

PASSAGE 3/8" = 1'-0"

703	LTO MENUBOARD.
715	SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT. SEE DETAIL 14/A6.3 AND
754	SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT.

KEYNOTES A

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TACO BELL
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
INTERIOR ELEVATIONS DINING ROOM

A8.0

PLOT DATE: 3/31/2022 1:03:00 PM

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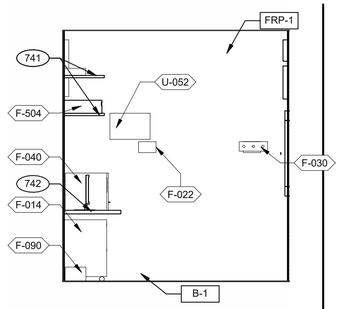
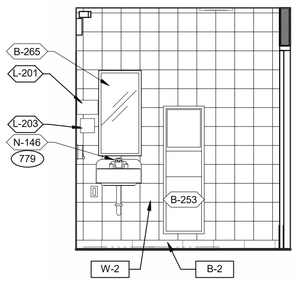
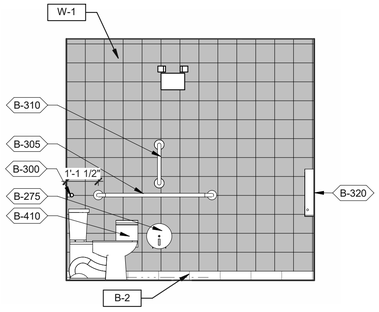


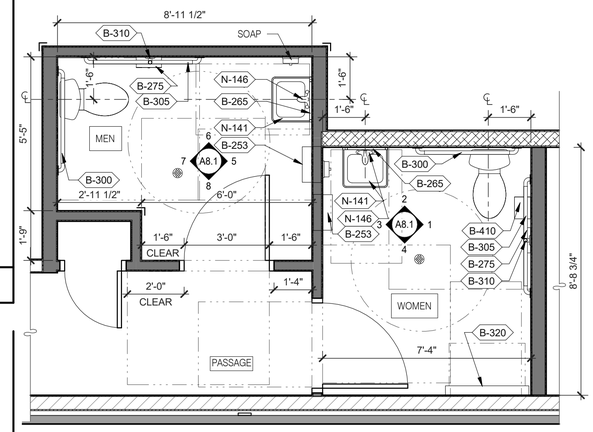
OFFICE ELEVATION 3/8" = 1'-0" **9**



MEN'S RESTROOM 3/8" = 1'-0" **5**



WOMEN'S RESTROOM 3/8" = 1'-0" **1**



ENLARGED RESTROOM / GENERAL NOTES 3/8" = 1'-0" **A**

A. PROVIDE PROPER 2x BLOCKING AT WALL RECESSED MOUNTED ACCESORIES.

B. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS. REFER TO SHEET ADA1.0

C. REFER TO FLOOR PLAN NOTE FOR BLOCKING AND SUBSTRATE NOTES.

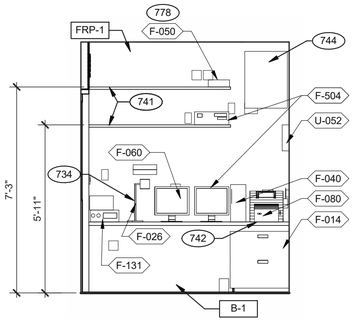
D. REFER TO SHEET ADA1.0 FOR MOUNTING HEIGHTS AND CLEARANCES OF ACCESORIES AND FIXTURE.

ALL DIMENSIONS THIS DRAWING ARE TO FINISH SURFACE.

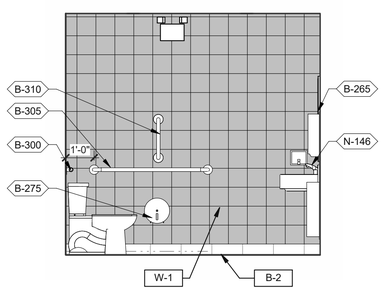
* ABSOLUTE DIMENSION

DESIGNER NOTE:
REFER TO G4.0 & G4.1
REFER TO SHEET A-2.1 FOR FIXTURE LIST.

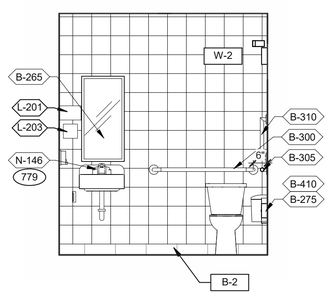
N



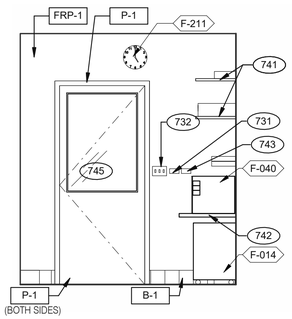
OFFICE ELEVATION 3/8" = 1'-0" **10**



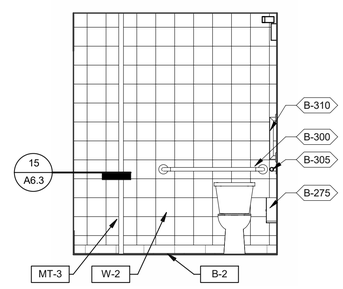
MEN'S RESTROOM 3/8" = 1'-0" **6**



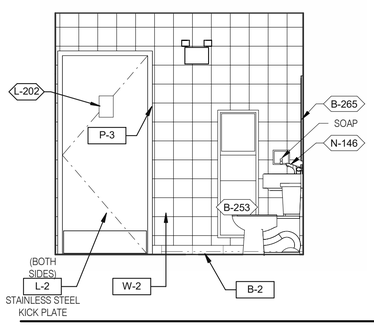
WOMEN'S RESTROOM 3/8" = 1'-0" **2**



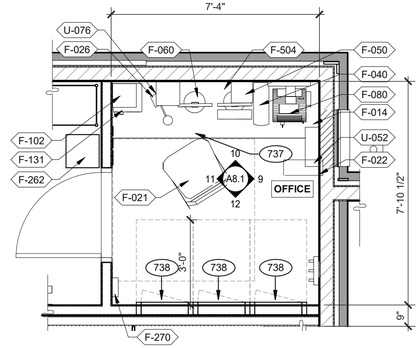
OFFICE ELEVATION 3/8" = 1'-0" **11**



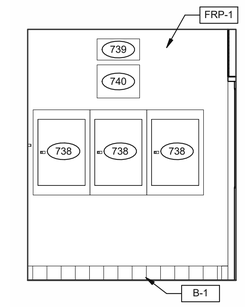
MEN'S RESTROOM 3/8" = 1'-0" **7**



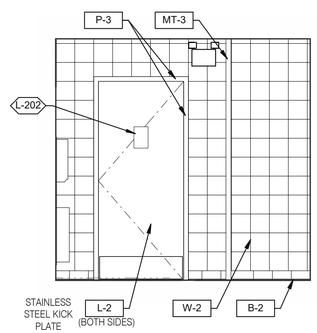
WOMEN'S RESTROOM 3/8" = 1'-0" **3**



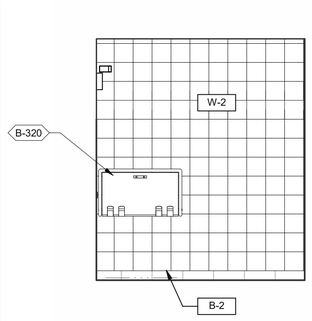
OFFICE PLAN 3/8" = 1'-0" **B**



OFFICE ELEVATION 3/8" = 1'-0" **12**



MEN'S RESTROOM 3/8" = 1'-0" **8**



WOMEN'S RESTROOM 3/8" = 1'-0" **4**

731 THERMOSTATS.
732 LIGHTING CONTROL RELAY SWITCHES. SEE DETAIL 3/E3.1.
734 DESK LAMP.
737 UNDER COUNTER KEYBOARD TRAY.
738 ELECTRIC PANELS.
739 FAN & LIGHT CONTROL BOX; REFER TO SHEET E6.0.
740 EXTERIOR LIGHTING CONTROL PANEL (GREEN GATE).
741 SHELF BY GC - FINISH WITH PLASTIC LAMINATED, L-1.
742 COUNTER BY GC - FINISH WITH PLASTIC LAMINATED, L-1.
743 DUCT SMOKE DETECTOR RESET SWITCH.
744 TECH-IN-A-BOX (WALL MOUNT RACK ENCLOSURE CABINETS): REFER TO SHEET E3.1. GC TO PROVIDE BLOCKING WHERE REQUIRED.
745 DOOR IS OPTIONAL.
778 PROVIDE POWER FOR F-050.
779 PROVIDE POWER FOR N-146.

KEYNOTES **C**

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PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

INTERIOR ELEV. ENLARGED RESTROOMS & OFFICE PLAN

A8.1

PLOT DATE: 3/31/2022 1:03:10 PM

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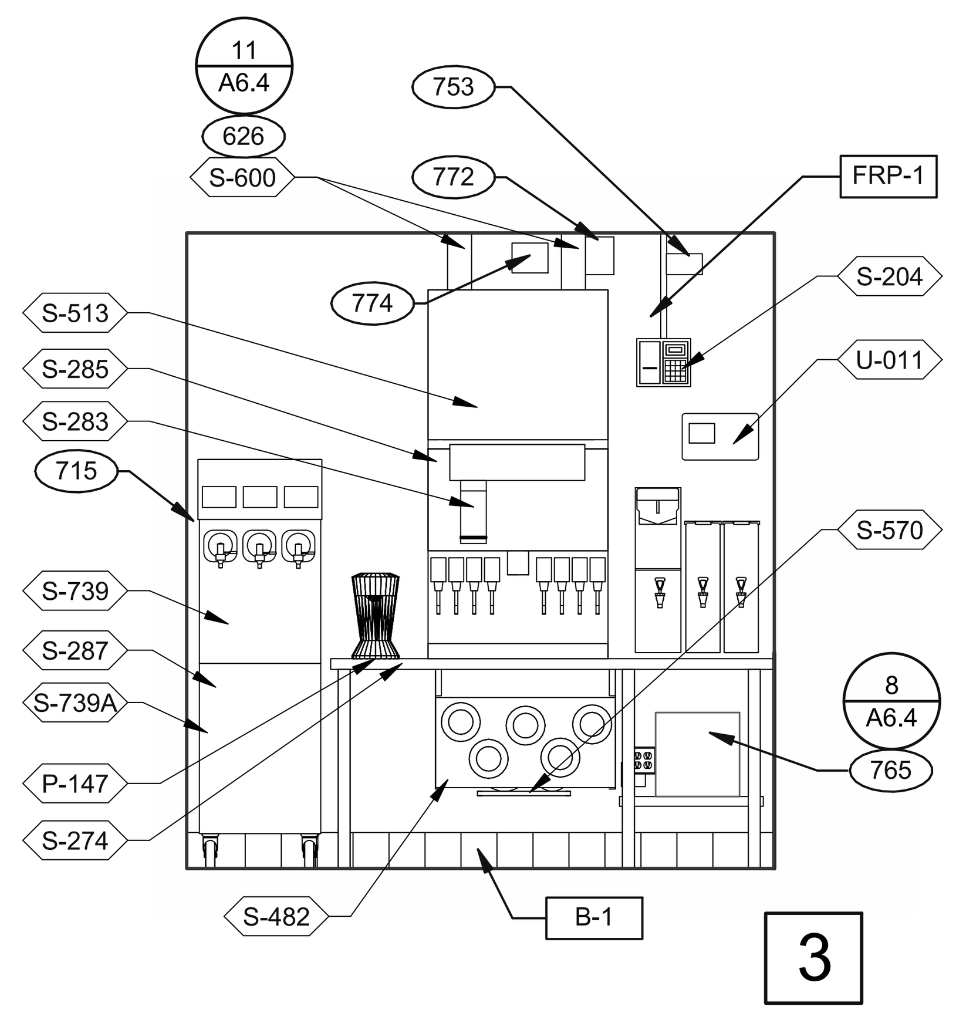

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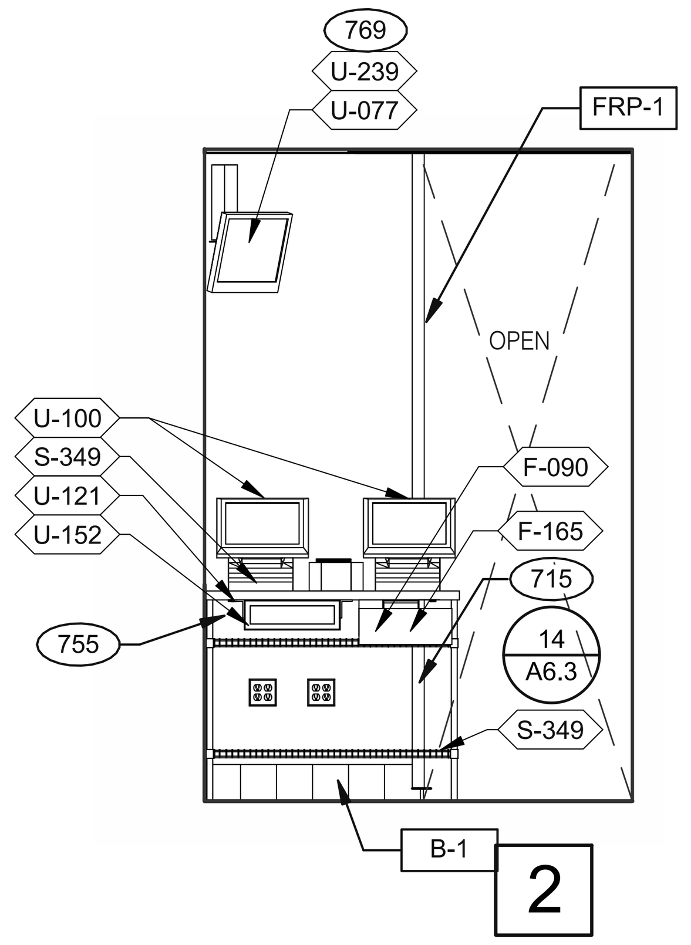

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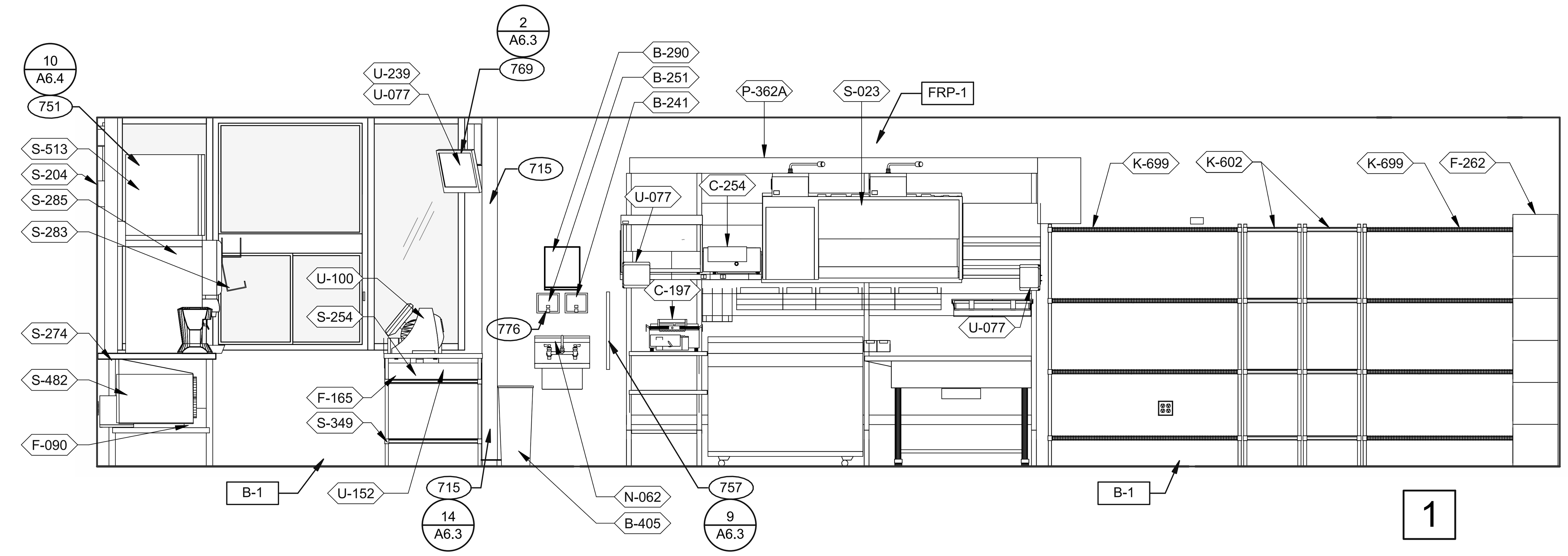

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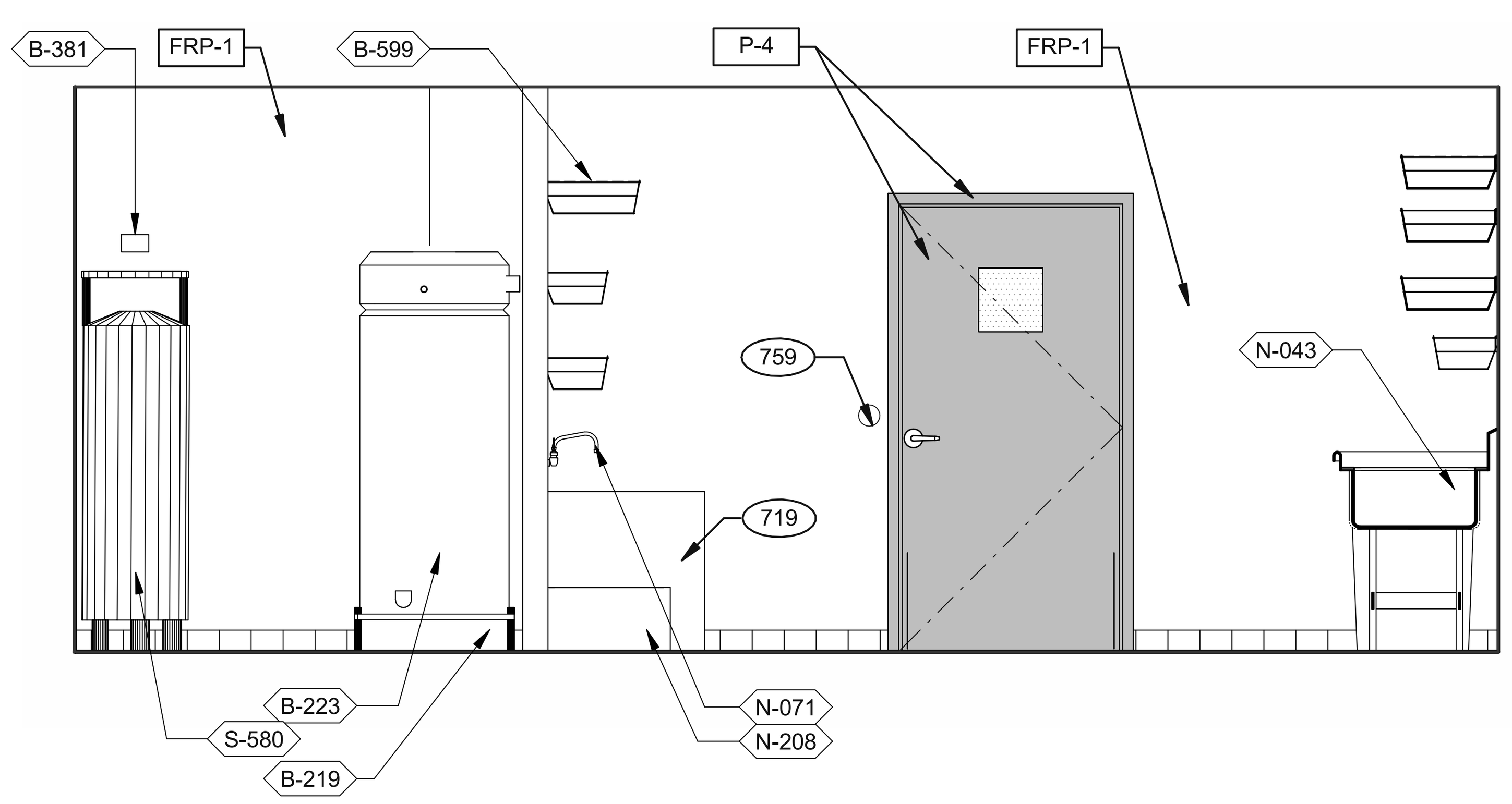
DRIVE-THRU 3/8" = 1'-0"

DRIVE-THRU 3/8" = 1'-0"

DRIVE-THRU AND TB COOK 3/8" = 1'-0"



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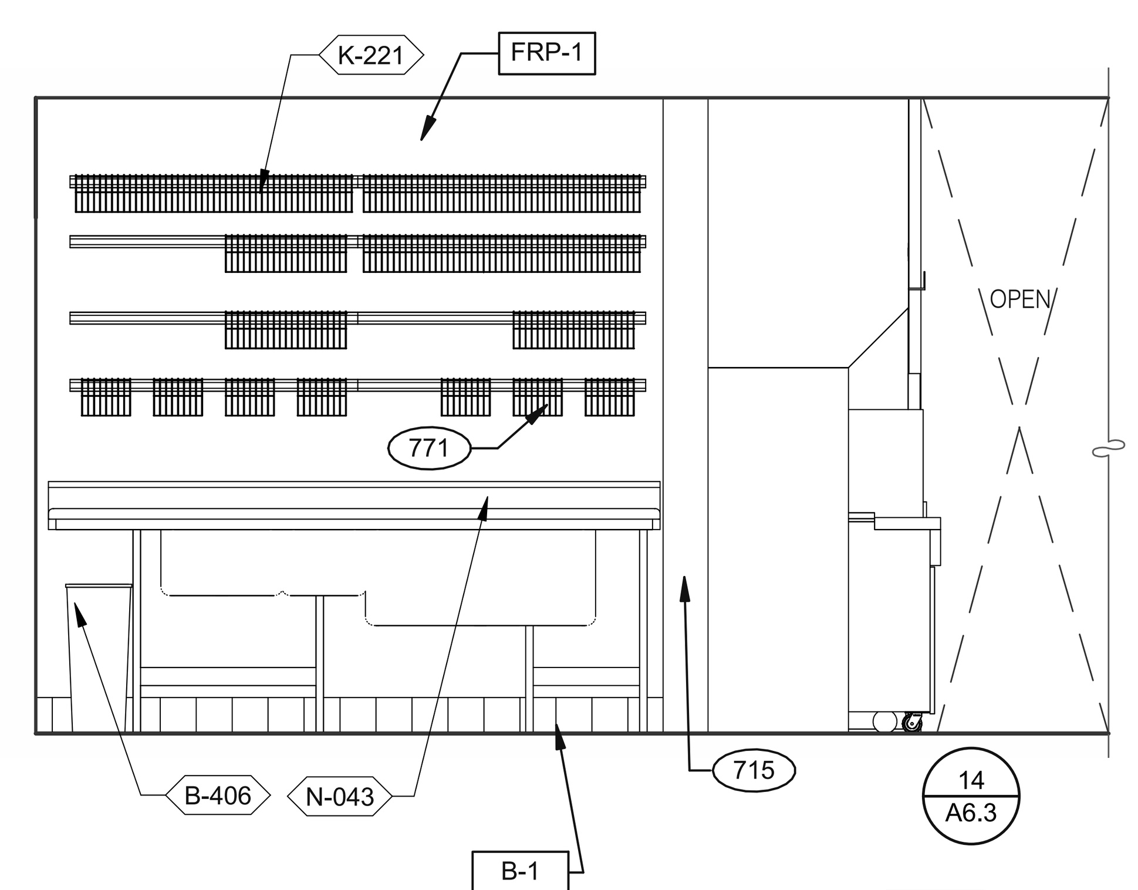

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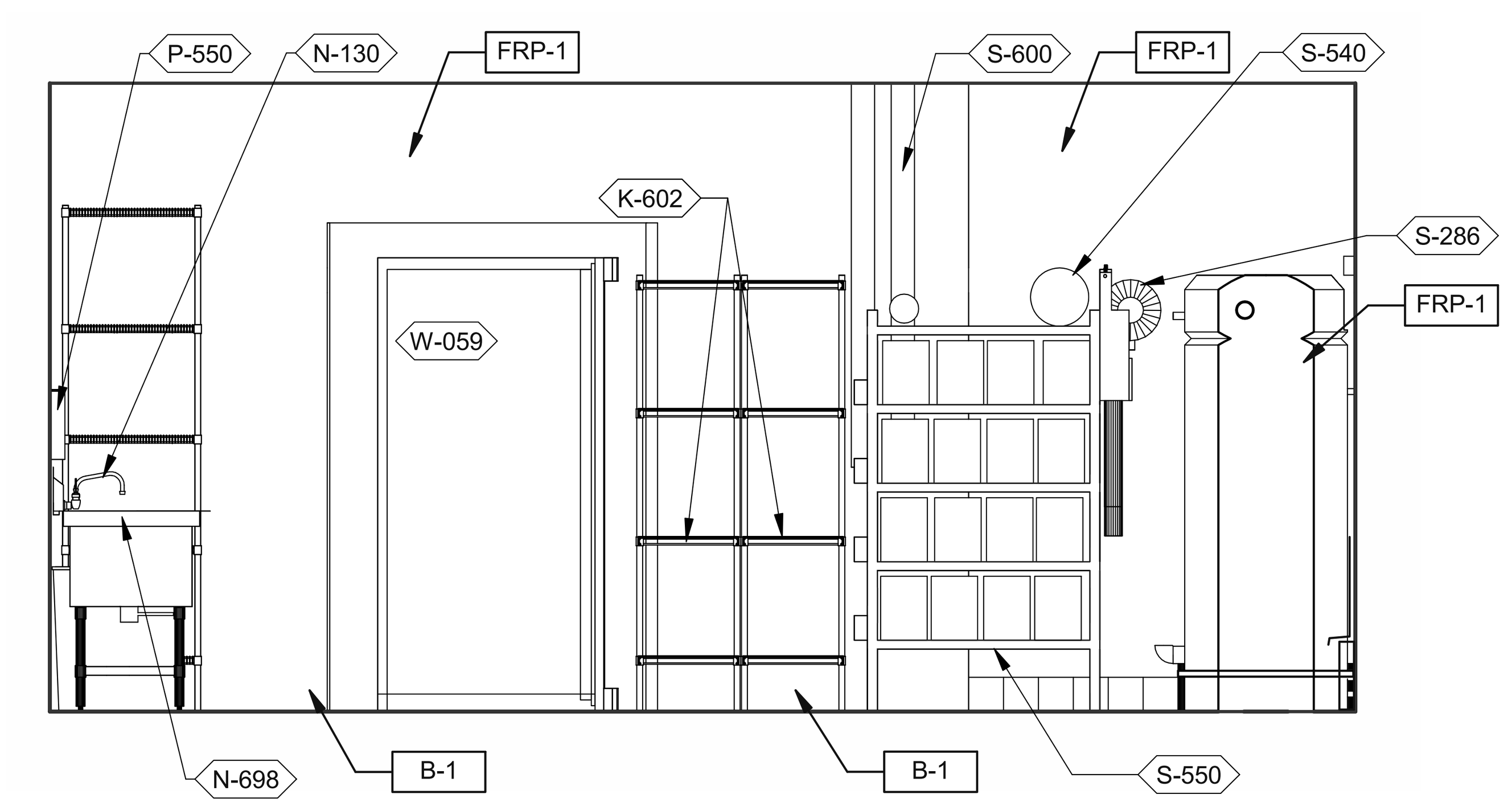

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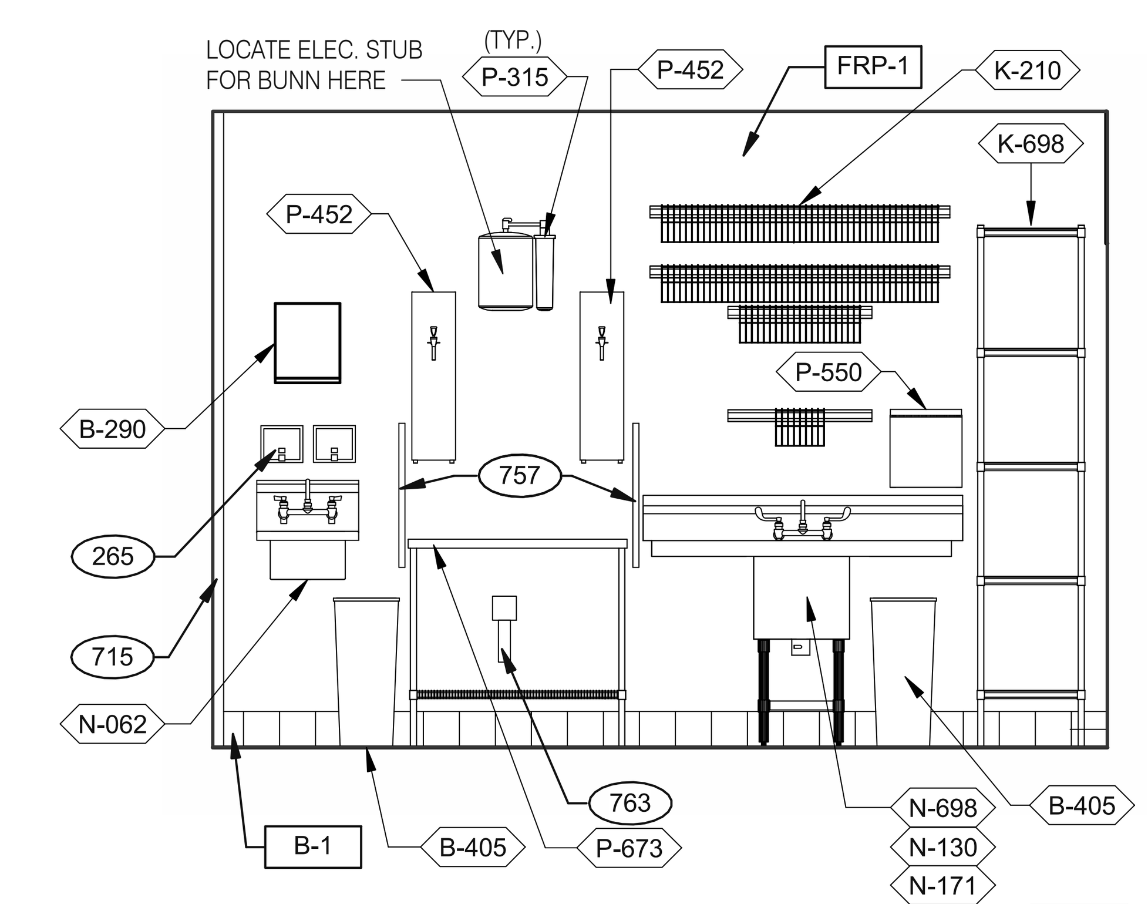

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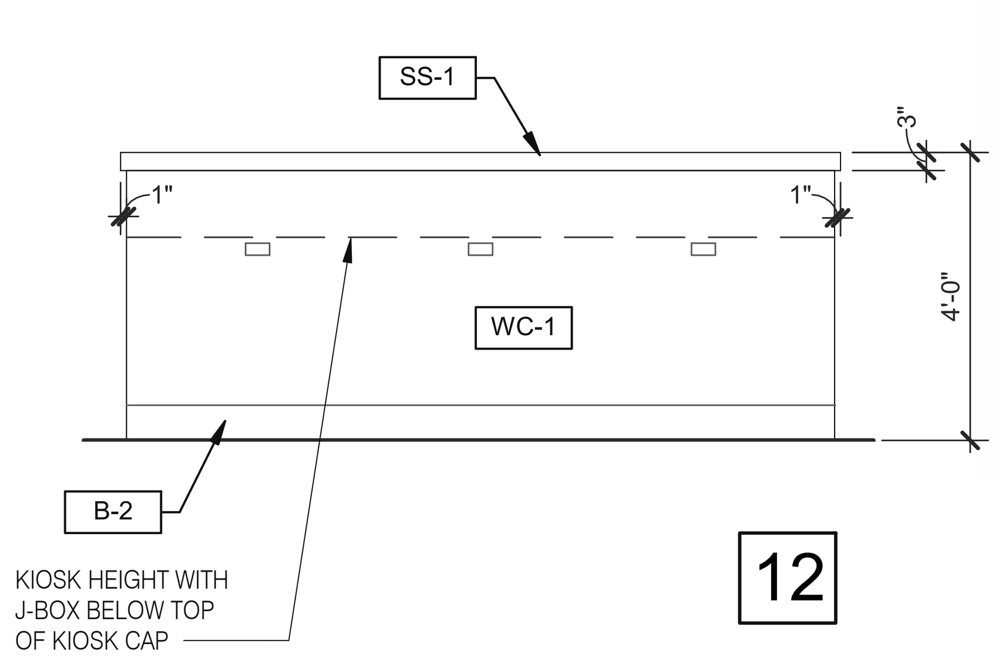
UTILITY 3/8" = 1'-0"

WARE WASHING 3/8" = 1'-0"

UTILITY 3/8" = 1'-0"

WARE WASHING 3/8" = 1'-0"



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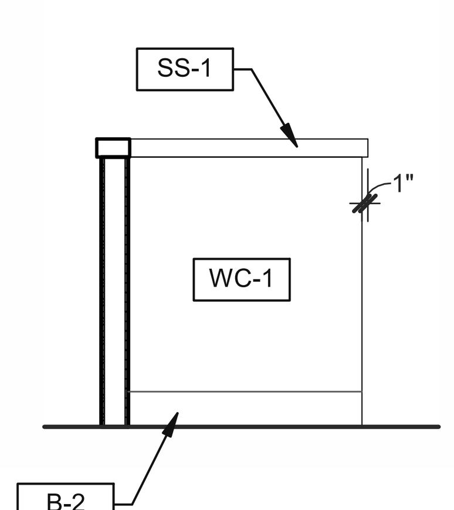

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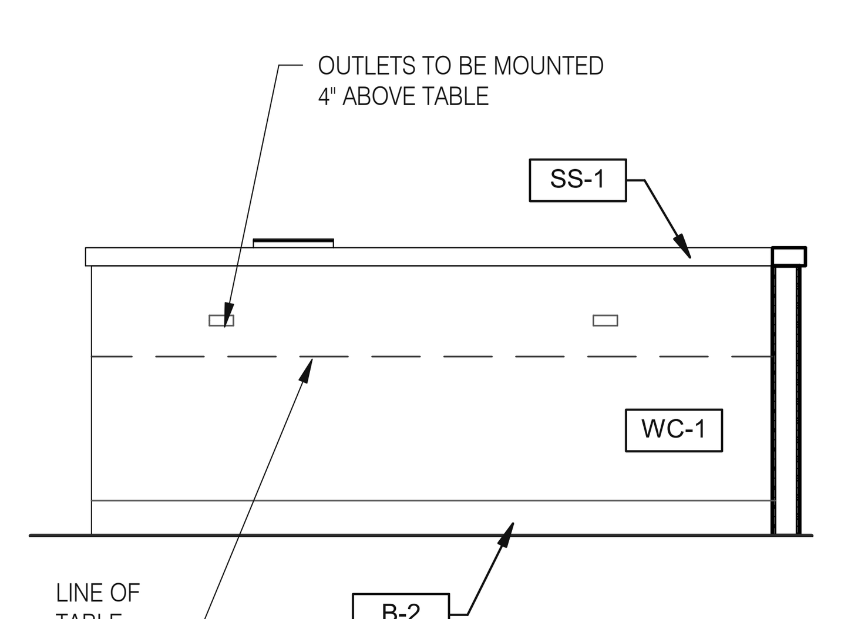

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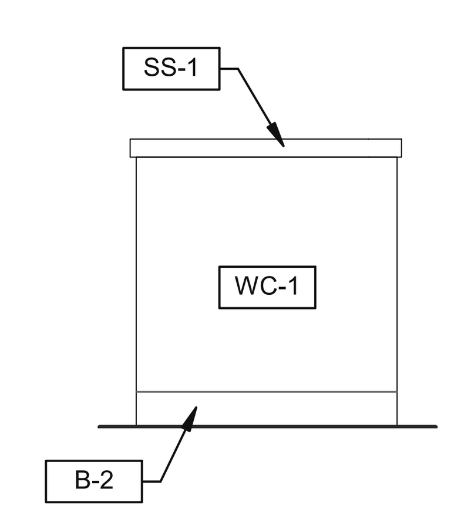

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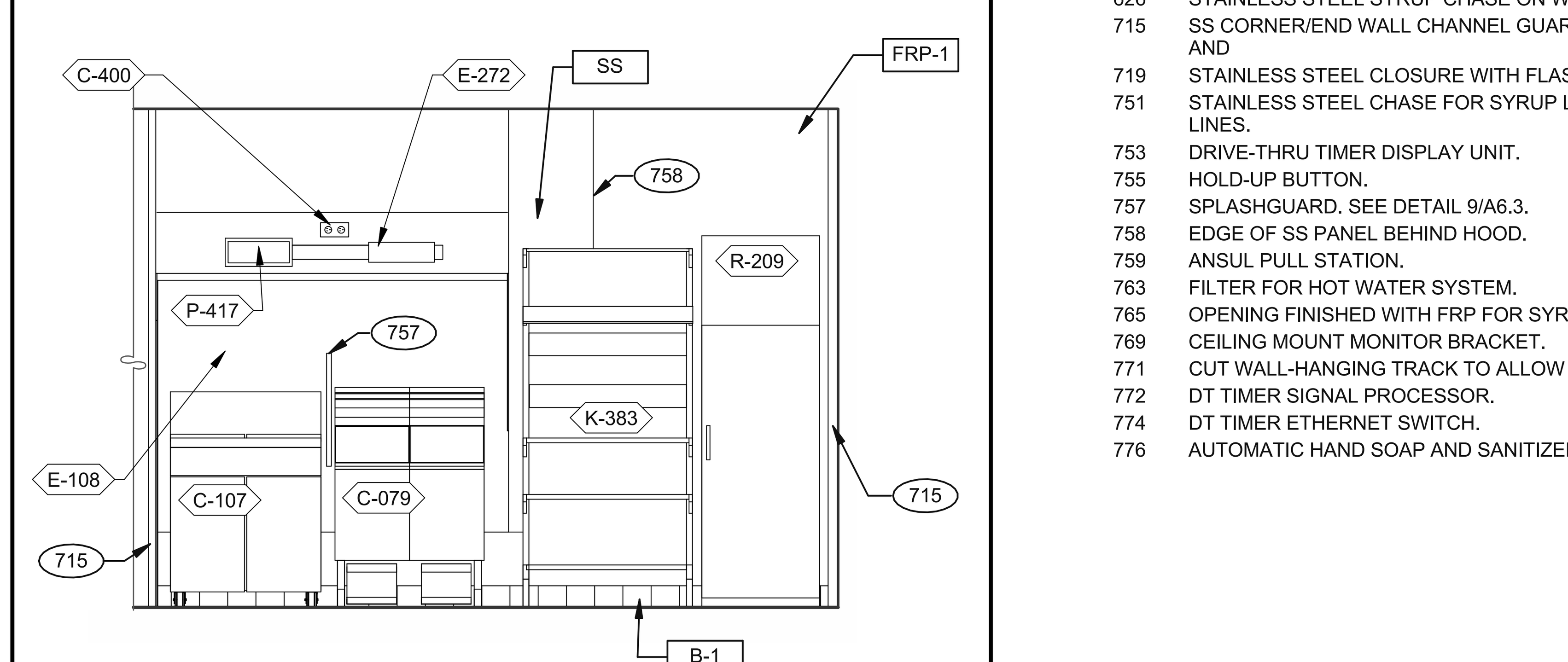
DINING PANEL ELEVATION 3/8" = 1'-0"



8

COOK LINE 3/8" = 1'-0"

265	AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB.
626	STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 11/A6.4.
715	SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT. SEE DETAIL 14/A6.3 AND
719	STAINLESS STEEL CLOSURE WITH FLASHING AND END CAP.
751	STAINLESS STEEL CHASE FOR SYRUP LINES & ICE MACHINE REFRIGERANT LINES.
753	DRIVE-THRU TIMER DISPLAY UNIT.
755	HOLD-UP BUTTON.
757	SPLASHGUARD. SEE DETAIL 9/A6.3.
758	EDGE OF SS PANEL BEHIND HOOD.
759	ANSUL PULL STATION.
763	FILTER FOR HOT WATER SYSTEM.
765	OPENING FINISHED WITH FRP FOR SYRUP TUBES. SEE DETAIL.
769	CEILING MOUNT MONITOR BRACKET.
771	CUT WALL-HANGING TRACK TO ALLOW SPACE FOR CLICK & CLEAN SYSTEM.
772	DT TIMER SIGNAL PROCESSOR.
774	DT TIMER ETHERNET SWITCH.
776	AUTOMATIC HAND SOAP AND SANITIZER DISPENSER BY ECO-LAB.

KEY NOTES B

GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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TACO BELL

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ENDEAVOR 2.0

INTERIOR ELEVATIONS KITCHEN

A8.2

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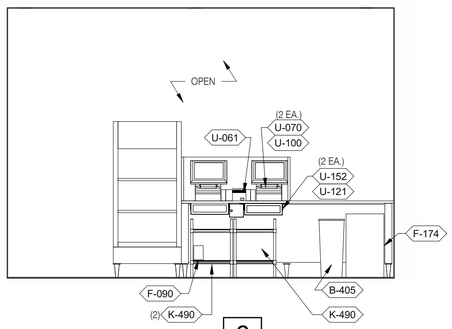

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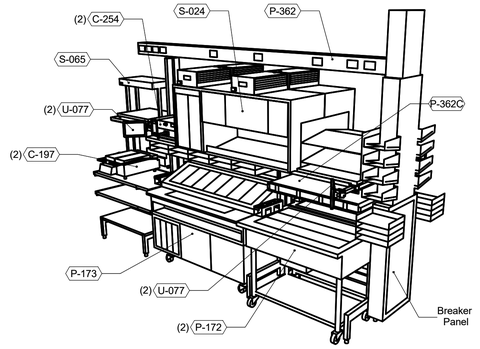

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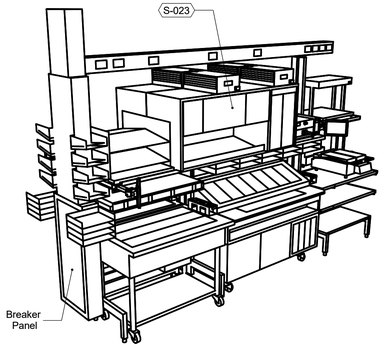

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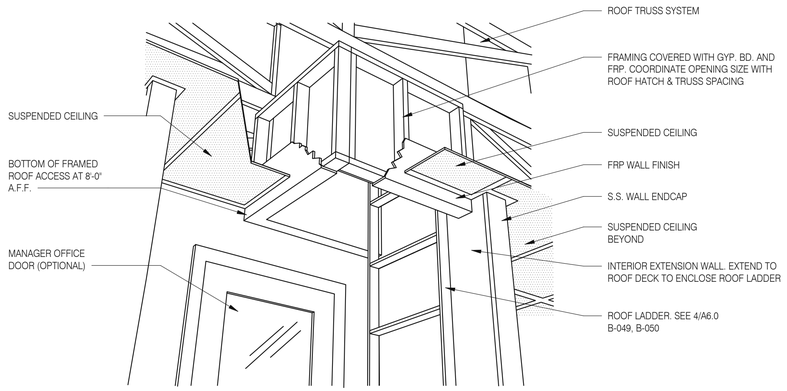
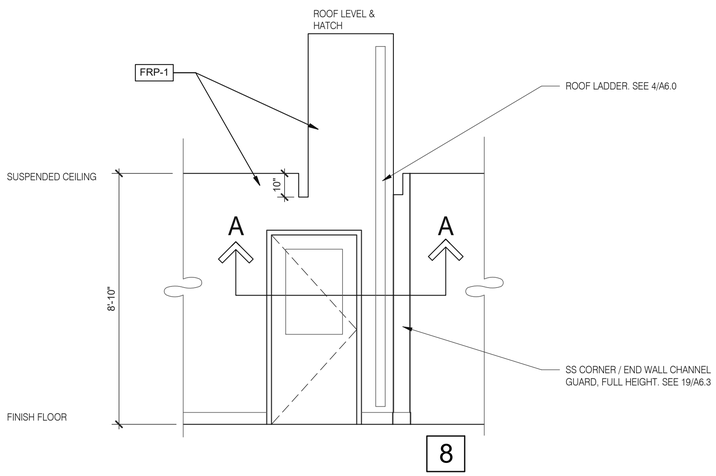
SERVING 3/8" = 1'-0"

P-362B FLEX DUAL-LINE 3/8" = 1'-0"



A - ROOF LADDER VIEW



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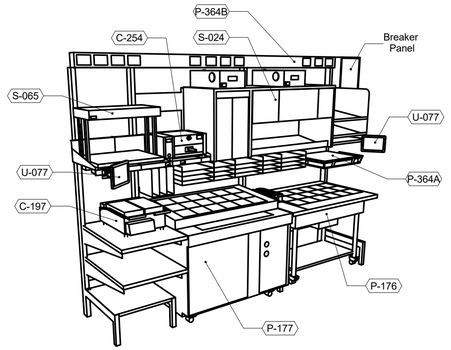
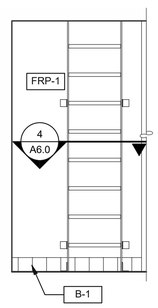
ROOF ACCES PASSAGEWAY 3/8" = 1'-0" **B**



P-362A FLEX I-LINE, L-R N.T.S. **7**



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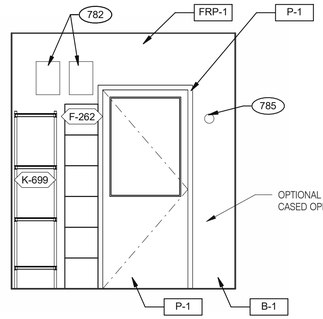

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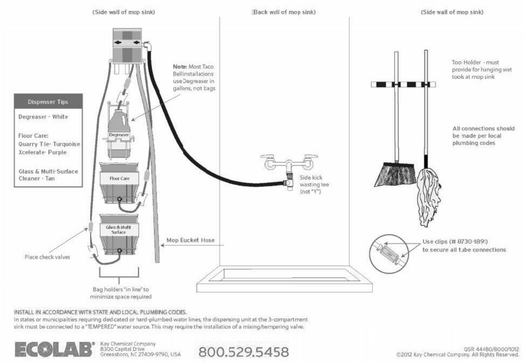
EMPLOYEE / STORAGE 3/8" = 1'-0"

Taco Bell Mop Sink Installation



MOP SINK INSTALLATION **C**

782	FAN MOTOR STARTERS, SURFACE MOUNTED. TYP. OF 2.
785	TEMPERATURE SENSOR, SEE MECHANICAL DRAWINGS.

KEYNOTE **A**

GPD Engineering and Architecture
Professional Corporation - 52715

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TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
INTERIOR ELEVATIONS KITCHEN

A8.3

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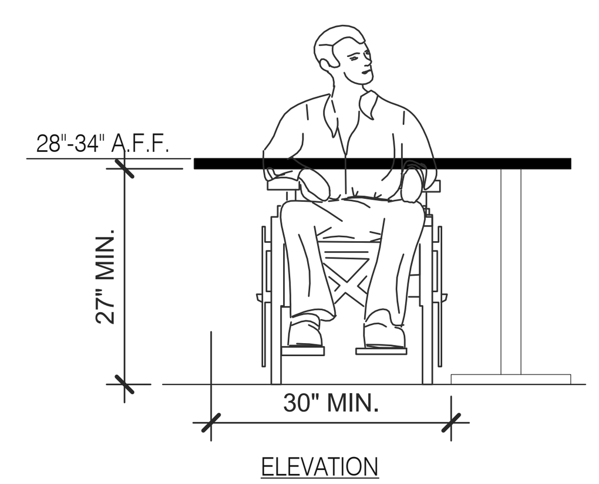
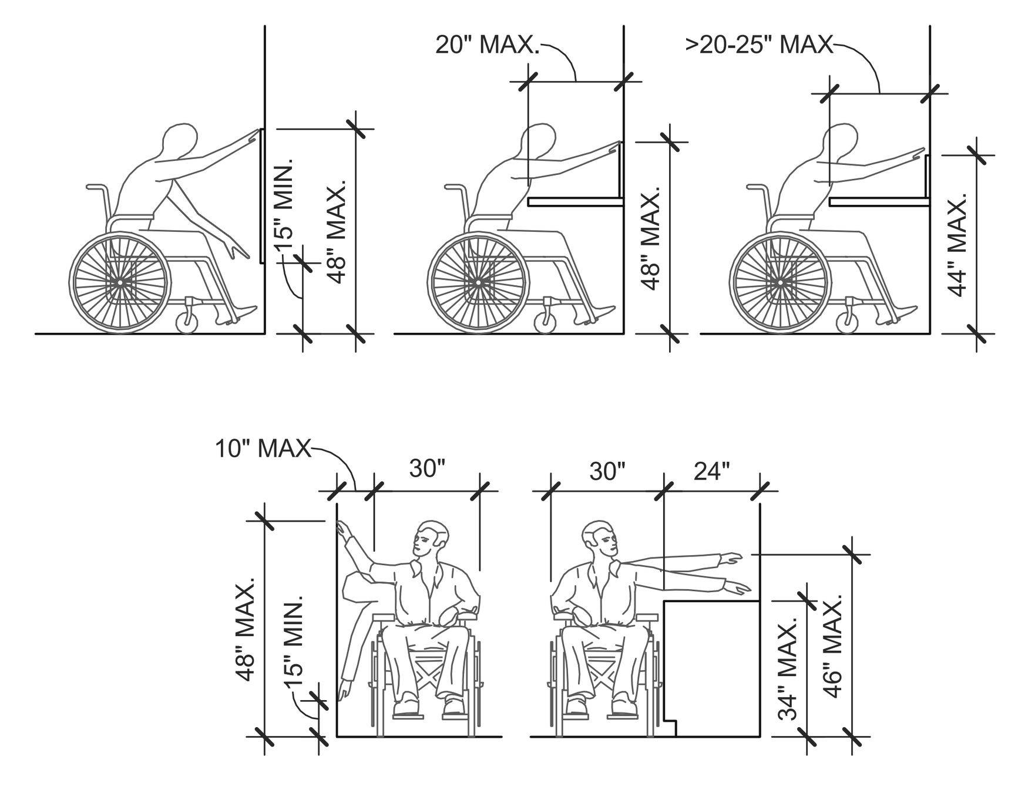
TOTAL SEATS	ACCESSIBLE SEATS
1 - 20 1	1
21 - 40	2
41 - 60	3
61 - 80	4
81 - 100	5
101 - 120	6
121 - 140	7

NUMBER OF ACCESSIBLE SEATS



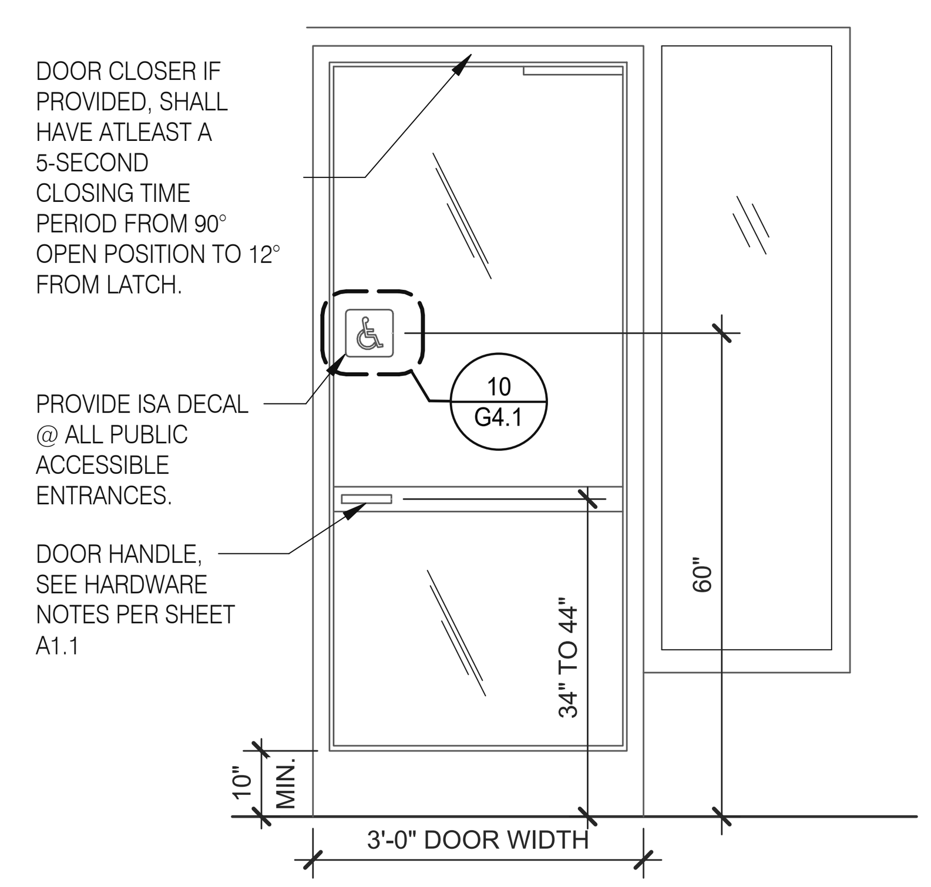
ELEVATION

SEATING AND TABLES 1/2" = 1'-0" 18

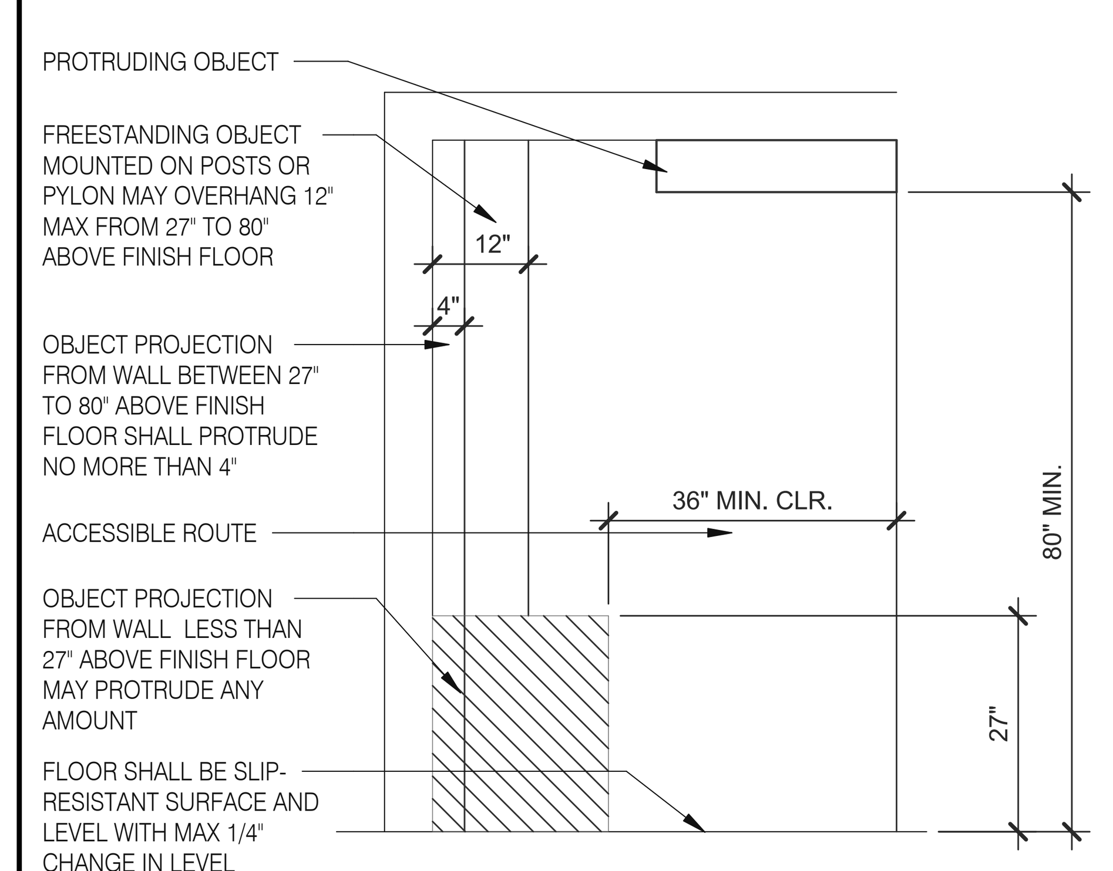


SIDE APROACH

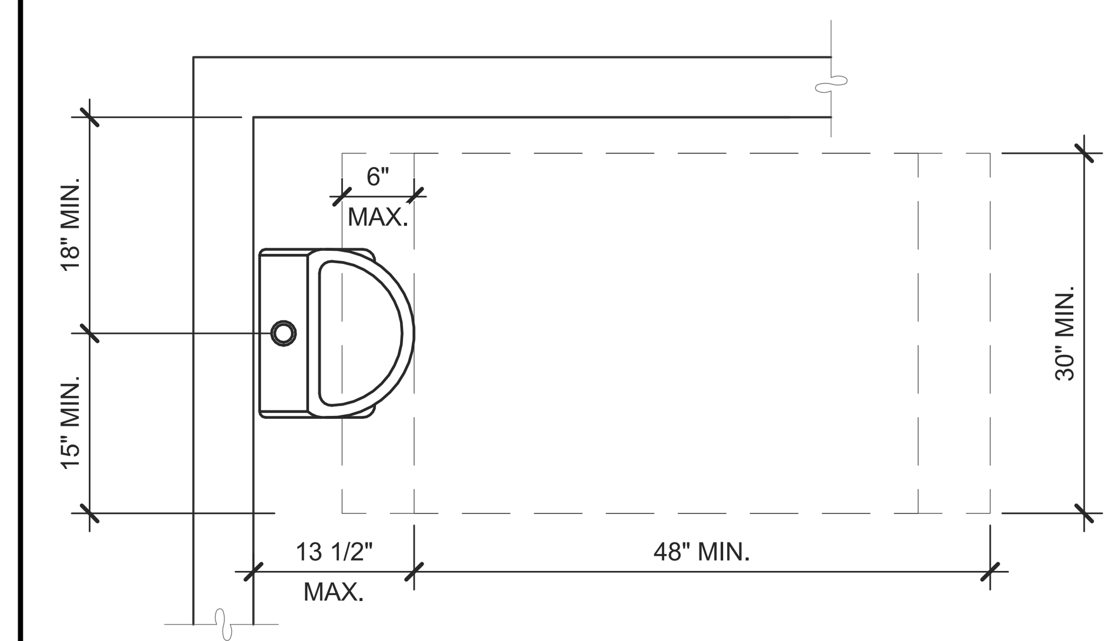
REACH RANGES 1/4" = 1'-0" 13



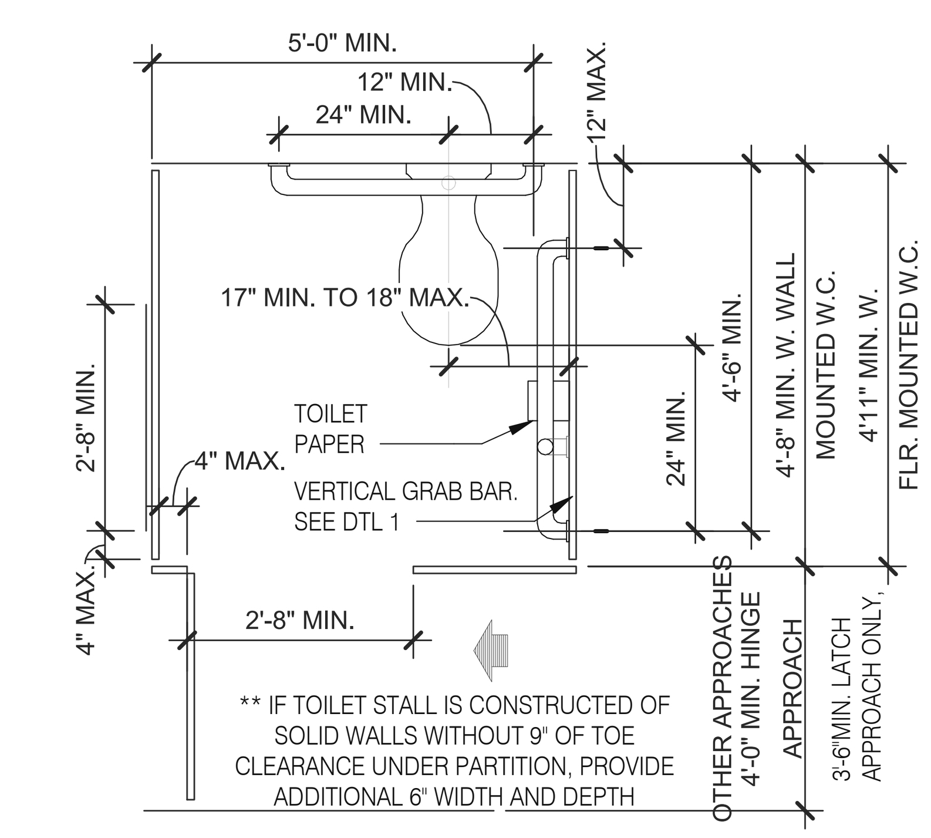
TYP. ENTRANCE / EXIT DOOR 3/8" = 1'-0" 14



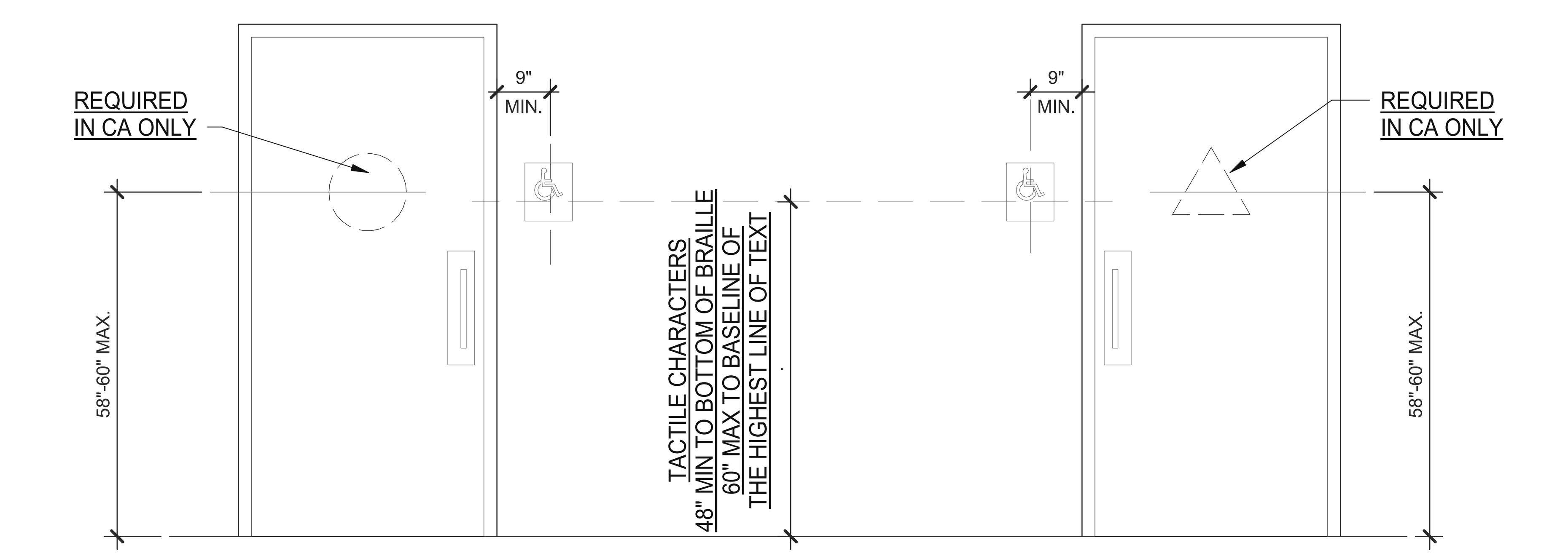
INT. ACCESS. ROUTE CLEARANCES 1/2" = 1'-0" 10



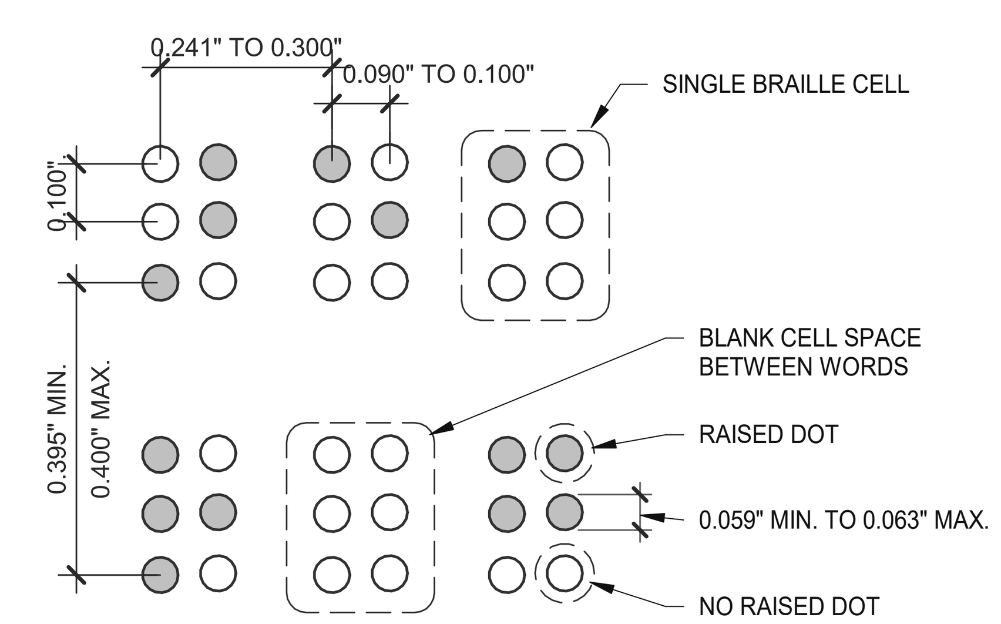
ACCESSIBLE URINAL 3/4" = 1'-0" 6



STANDARD TOILET STALL 1/2" = 1'-0" 2

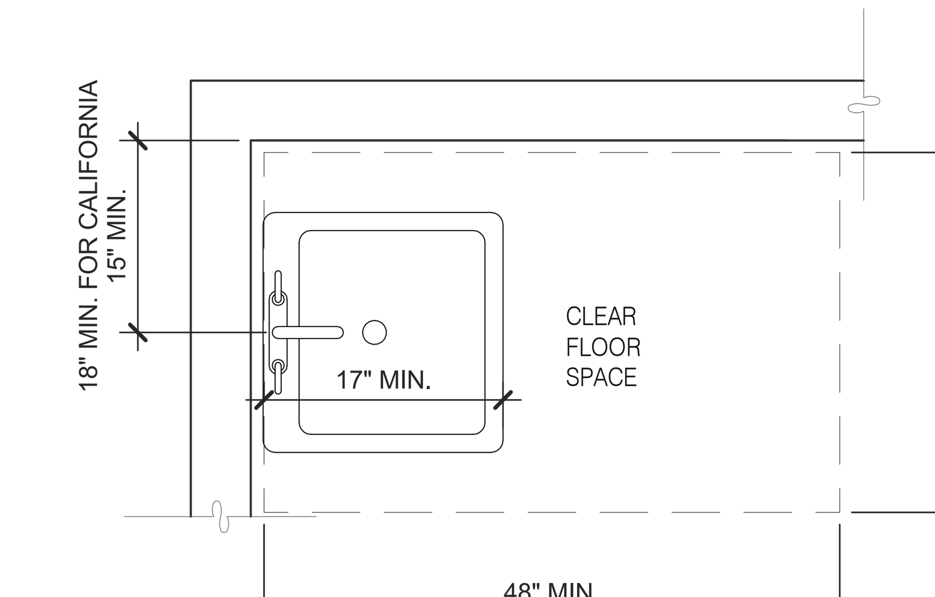


ACCESSIBLE RESTROOM DOORS 1/2" = 1'-0" 15

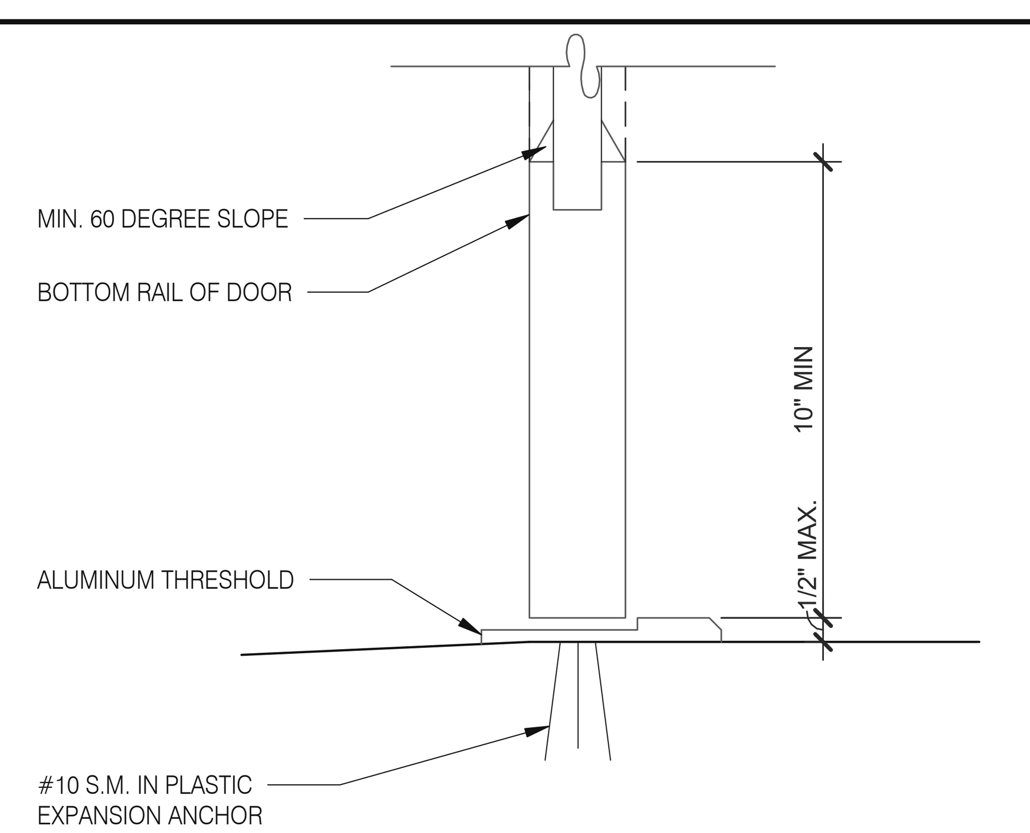


DOT HEIGHT 0.025" MIN. TO 0.037" MAX.
MEASURED CENTER TO CENTER.

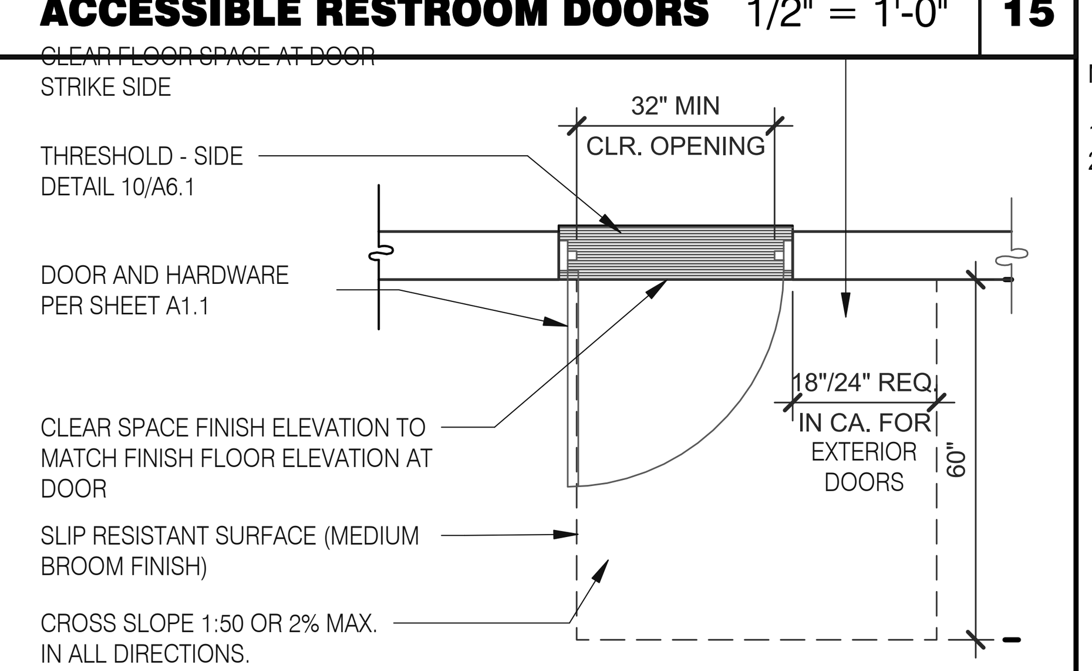
BRAILLE MEASUREMENT 1/4" = 1'-0" 11



ACCESSIBLE LAVATORY 3/4" = 1'-0" 3



BOTTOM RAIL (EXTERIOR DOOR) 3" = 1'-0" 20

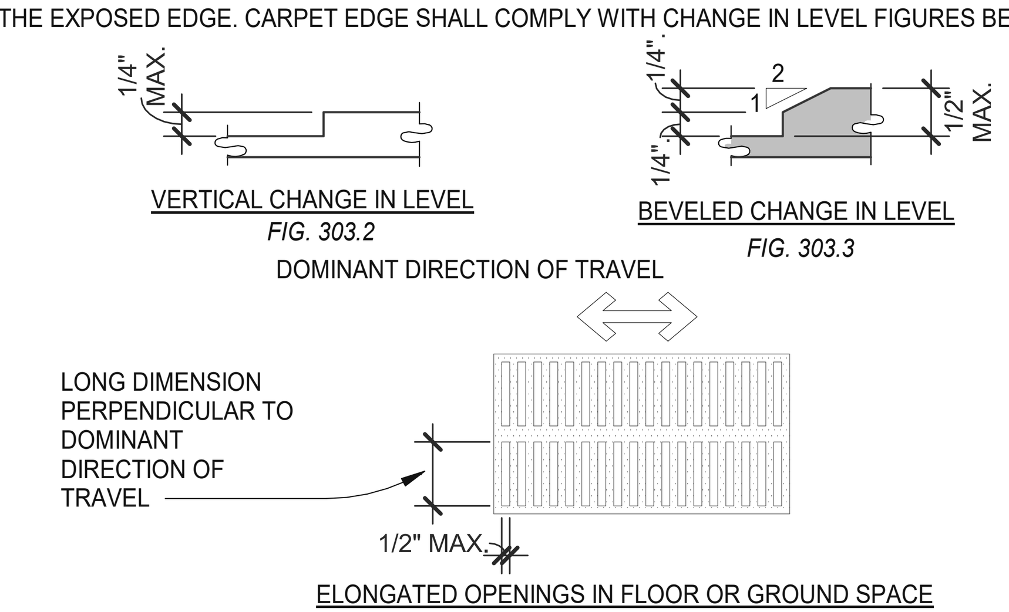


NOTE:
1. EXTERIOR DOOR PRESSURE CANNOT EXCEED 8.5 LBS (GC TO DOOR PRESSURE TO MINIMUM ALLOWABLE BY AHJ).
2. INTERIOR DOOR PRESSURE CANNOT EXCEED 5 LBS.
3. 60% OF PUBLIC ENTRANCES MUST BE ACCESSIBLE (100% IN CA)

EXTERIOR DOOR REQUIREMENTS 3/8" = 1'-0" 16

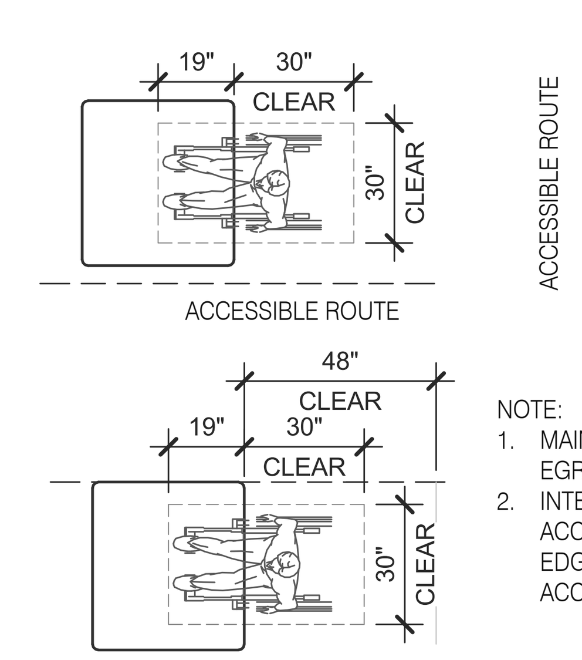
NOTES:

1. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
2. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL COMPLYWITH CARPET PILE HEIGHT FIGURE BELOW. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE SHALL COMPLY WITH CHANGE IN LEVEL FIGURES BELOW.



VERTICAL CHANGE IN LEVEL *FIG. 303.2*
BEVELED CHANGE IN LEVEL *FIG. 303.3*
ELONGATED OPENINGS IN FLOOR OR GROUND SPACE *FIG. 302.3*

CHANGES IN LEVEL 1/2" = 1'-0" 12



NOTE:
1. MAINTAIN 36" MIN. CLEAR AISLE EGRESS PATHS TO EXIT DOORS.
2. INTERNATIONAL SYMBOL OF ACCESSIBILITY REQUIRED ON TOP EDGE OR FRONT OF ALL ACCESSIBLE TABLES.

DINING SEATING CLEARANCES N.T.S. 8

1. INDICATED DIMENSIONS, HEIGHTS, DEPTHS, AREAS AND OTHER GRAPHIC INFORMATION ARE PROVIDED AS MINIMUMS THAT MUST BE MAINTAINED. THESE MINIMUMS ARE BASED UPON YUM STANDARDS AND MAY EXCEED ADA REQUIREMENTS.

   THE DETAILS SHOWN ARE CONCEPTUAL ONLY AND INTENDED TO SHOW ABSOLUTE MINIMUMS AND SHALL BE COORDINATED WITH THE OTHER CONSTRUCTION DOCUMENTS ASSOCIATED WITH THIS PROJECT.

2. 60" TURNING SPACE
   - PERMITTED OVERLAP LIMITED TO 1 ARM OF T-SHAPED SPACE
   - CAN OVERLAP FIXTURE & DOOR CLEARANCE
   - DOOR CAN SWING INTO TURNING SPACE A MAXIMUM OF 12"

3. RESTROOM, IN GENERAL, DOOR SWING MUST BE OUTSIDE OF THE FIXTURE CLEAR FLOOR SPACE HOWEVER A DOOR CAN SWING INTO FIXTURE CLEAR FLOOR SPACE IF WHEELCHAIR SPACE 30"X48" IS PROVIDED BEYOND THE DOOR SWING.

4. TOILET ROOM MUST ALLOW FOR SIDE TRANSFER - 42" BETWEEN FIXTURES.

5. ADAPT TEAM TO VERIFY LOCAL CODE REQUIREMENTS.

GENERAL NOTES 4

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TACO BELL

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ACCESSIBILITY REQUIREMENTS

ADA1.0

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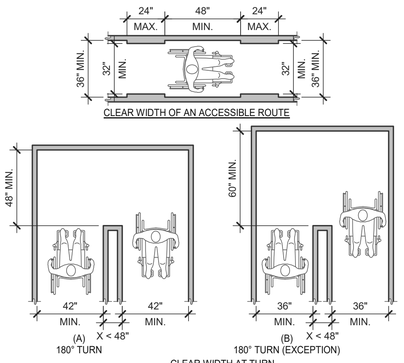
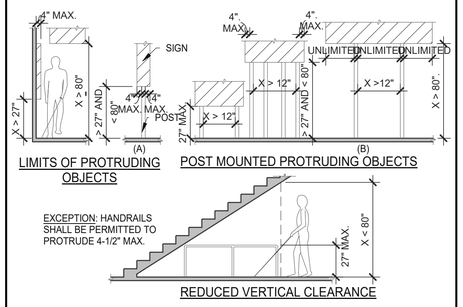
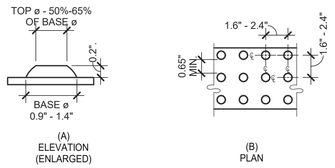


CLEAR WIDTH 1/4" = 1'-0" | **17**



PROTRUDING OBJECTS 3/16" = 1'-0" | **13**



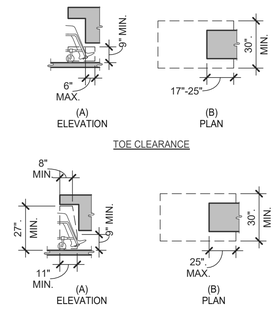
SIZE AND SPACING OF TRUNCATED DOMES

DETECTABLE WARNINGS 3" = 1'-0" | **14**

PARKING SPACES

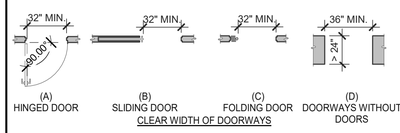
TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2 PERCENT OF TOTAL
1001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000

PARKING SPACES 6" = 1'-0" | **15**

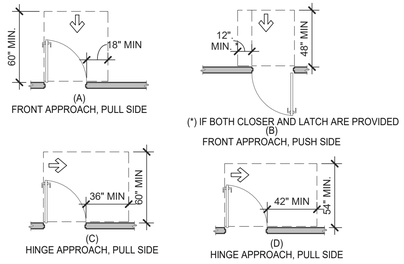


KNEE AND TOE CLEARANCE 1/4" = 1'-0" | **16**

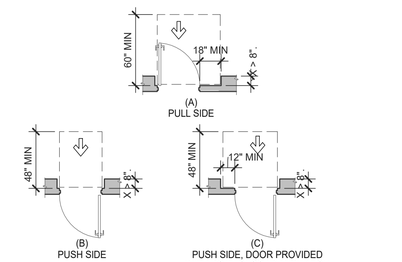
NOTES:
1. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL AND SHALL HAVE A SLOPE NOT STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED AT DOOR LANDINGS.
2. THRESHOLDS, IF PROVIDED AT DOORWAYS SHALL BE 1/2" HIGH MAX. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL.
3. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OR THE WRIST.
4. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS (22.5 N) MAX.
5. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MIN. AND 48" MAX. ABOVE THE FINISH FLOOR OR GROUND.
6. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
7. DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90° THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12° FROM THE LATCH IS 5 SECONDS MIN.
8. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70° THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MIN.
9. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
9.1. INTERIOR HINGED DOORS AND GATES: 5 LBS (22.5 N) MAX.
9.2. SLIDING OR FOLDING DOORS: 5 LBS (22.5 N) MAX.
9.3. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.7N).
9.4. EXTERIOR HINGED DOORS: 5 LBS (22.5 N) MAX.
10. SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACE SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
11. WHERE AUTOMATIC AND POWER-ASSISTED DOORS AND GATES WITHOUT STANDBY POWER ARE PART OF A MEANS OF EGRESS THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32" MIN. WHEN OPERATED IN EMERGENCY MODE.



CLEAR WIDTH OF DOORWAYS



MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES



MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES

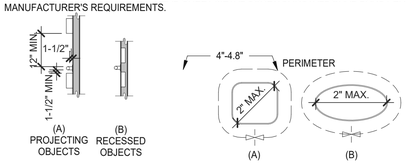
DOORS, DOORWAYS & GATES 3/16" = 1'-0" | **12**

CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.

SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

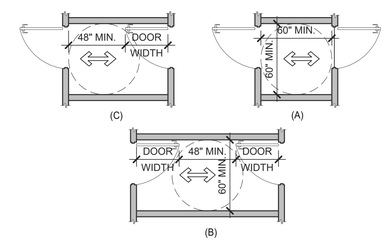
POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.

BACKING. PROVIDE MIN. 6 INCHES x 16 GA CONTINUOUS SHEET METAL BACKING ATTACHED TO MIN. 3 STUD BAYS WITH #10 FLAT HEAD SHEET METAL SCREWS. INSTALL GRAB BARS PER MANUFACTURER'S REQUIREMENTS.



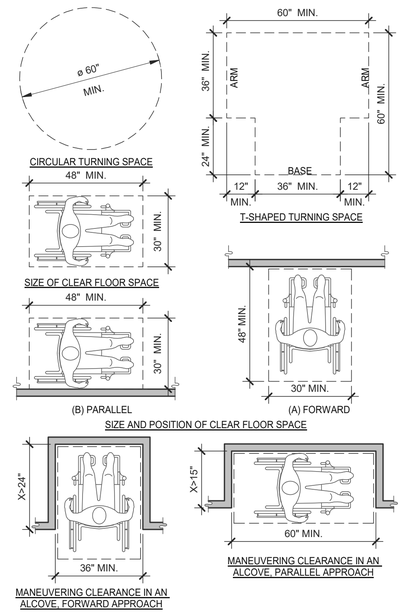
SPACING OF GRAB BARS | GRAB BAR NON-CIRCULAR CROSS SECTION

GRAB BARS 3/16" = 1'-0" | **5**



TWO DOORS IN SERIES

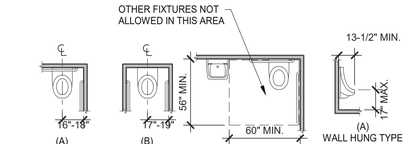
DOORS, DOORWAYS & GATES 3/16" = 1'-0" | **6**



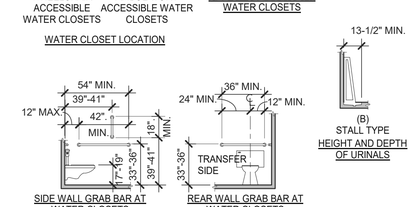
CLEAR FLOOR OR GROUND SPACE 3/8" = 1'-0" | **8**

ACCESSIBILITY NOTES

1. "THE ACCESSIBILITY GUIDELINES AND CODES" MENTIONED BELOW REFER TO ALL APPLICABLE LOCAL/STATE BUILDING CODES REFERENCED ON THE PROJECT DATA SHEET OF THIS SET IN ADDITION TO THE FEDERAL REQUIREMENTS OF THE ADA (THE AMERICANS WITH DISABILITIES ACT).
2. DETAILS ON THIS SHEET ARE FOR REFERENCE ONLY, REFER TO THE ACCESSIBILITY GUIDELINES AND CODES FOR ALL ACCESSIBILITY REQUIREMENTS.
3. THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE ACCESSIBILITY GUIDELINES AND CODES.
4. ANY DISCREPANCY CONTAINED HEREIN DOES NOT RELIEVE THE GENERAL CONTRACTOR OR OWNER FROM COMPLYING WITH THE ACCESSIBILITY GUIDELINES AND CODES.

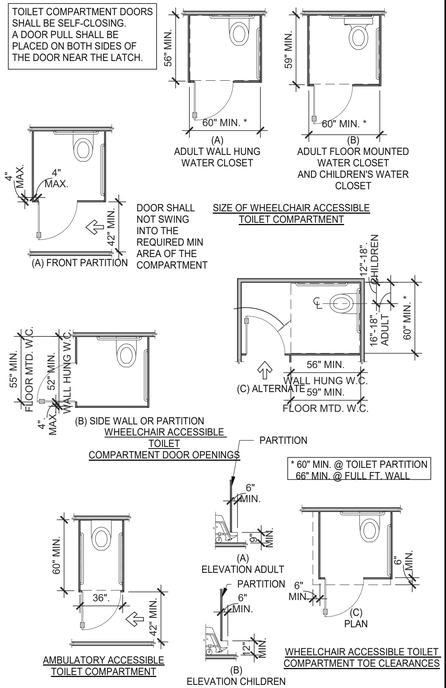


WATER CLOSET LOCATION



DISPENCER OUTLET LOCATIONS TO COMPLY WITH FIGURE 604.7 OF ICC A117.1-2017

TOILET COMPARTMENT DOORS SHALL BE SELF-CLOSING. A DOOR PULL SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.



WC AND TOILET COMPARTMENTS 3/16" = 1'-0" | **4**

GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid

CONTRACT DATE: 11.18.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314703
STORE NUMBER: 454826
PA/PM: JW
DRAWN BY.: RS
JOB NO.: 2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
ACCESSIBILITY REQUIREMENTS

ADA1.1

PLOT DATE: 3/31/2022 1:03:33 PM

GENERAL:

1. LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
2. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFF-SETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH KITCHEN EQUIPMENT.
3. PROVIDE FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

REFER TO SCOPE OF WORK IN DIV 23 SPECIFICATION FOR HVAC FOR TEST & BALANCE & COMMISSIONING REQUIREMENTS WHICH WILL BE SUPPLIED BY THE OWNER AND COORDINATED BY THE GC.

HVAC:

1. INSTALLATION SHALL CONFORM TO MECHANICAL AND ENERGY CODES FOR NEW NONRESIDENTIAL BUILDINGS.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
3. OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
4. E.C. SHALL PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS. REFER TO SHEETS E3.0 - ELECTRICAL POWER PLAN, SHEET E3.2-ELECTRICAL POWER ROOF PLAN, E6.0 - ELECTRICAL DETAILS - TBCCB, E6.1 - ELECTRICAL DETAILS - TBCCB, E7.0 - ELECTRICAL DETAILS, E7.1 - ELECTRICAL DETAILS.
5. PROVIDE 24V CONTROL WIRING AND FINAL CONNECTIONS. EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. REFER TO ELECTRICAL DRAWINGS SHEETS E6.1 AND E7.1 FOR ADDITIONAL LOW VOLTAGE WIRING AND CONNECTIONS.
6. PROVIDE ALL REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF AND CHARGE LINES PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
7. HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
8. SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED. ALL RETURN AND SUPPLY DUCT RISERS SHALL BE LINED (NOT WRAPPED).
9. SUPPLY / RETURN DUCTS SHALL BE RIGID (EXCEPT AS NOTED/INDICATED AS RIGID ON THE DUCT PLAN), WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY UTILIZE FLEXIBLE DUCT. ALL EXHAUST DUCT SHALL BE RIGID.
10. ROOFTOP UNITS SHALL BE ORDERED WITH FACTORY SUPPLIED AND INSTALLED RETURN SMOKE DETECTORS. WHEN REQUIRED BY MANUFACTURER, SAMPLE TUBE SHALL BE LOCATED PER FIELD INSTALLATION INSTRUCTIONS. DETECTOR SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. INCLUDE SUPPLY SMOKE DETECTOR ONLY IF REQUIRED BY LOCAL CODE.
11. HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE 3M FIRE BARRIER DUCT WRAP FOR ALL HOOD EXHAUST DUCTS. PROVIDE TRANSITION AT TERMINATION OF TYPE 1 EXHAUST DUCT TO TOP OF FAN BASE. TRANSITION SHALL BE CENTERED AND HAVE MINIMUM OF 1" PER FOOT SLOPE.
12. BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT BRANCH FEEDER. DAMPER SHALL BE MINIMUM 26 GAUGE LOCATED IN DEDICATED SLEEVE WITH AXLE AND LOCKING QUADRANT. DAMPERS SHALL NOT BE INSTALLED IN STARTER COLLARS. ALL DAMPER HANDLES SHALL HAVE A FLAG ON THE HANDLE FOR LOCATION PURPOSES.
13. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND VENTS.
14. SEE M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.
15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING HVAC TEST & BALANCE REQUIRED FOR LOCAL AUTHORITY HAVING JURISDICTION, CERTIFICATE OF OCCUPANCY, BUILDING FINAL, ETC.
16. FINAL HVAC SYSTEM TESTING AND BALANCING, AND COMMISSIONING SHALL BE PERFORMED BY INDEPENDENT AGENT. INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER IS SCHEDULED AND PAID FOR (FRANCHISEE STORES) BY GENERAL CONTRACTOR (CORPORATE STORES ARE DIRECT BILLED TO TACO BELL)". CONTRACTOR SHALL CERTIFY COMPLETION OF INSTALLATION, START UP AND PRE-COMMISSIONING CHECKLIST SHOWN ON SHEET SW2.0 BEFORE SCHEDULING OWNER'S INDEPENDENT AGENT. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, COMPLETED, STARTED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST SHALL BE INCURRED BY THE GENERAL CONTRACTOR.

   INDEPENDENT AGENTS:
   Air Care Experts
   TAB@ACE-IAQ.COM
   949 770-2222
17. WIRE ALL SMOKE DETECTORS IN RTU TO ITS RESPECTIVE REMOTE ANNUCIATOR/RESET SWITCH. INSTALL "SYSTEM SENSOR" MODEL RTS2AOS. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MANUFACTURER SPECIFICATIONS.
18. REFERENCE RTU TO TBCCB CONNECTIONS PER E6.1.
19. RTU MANUFACTURER FURNISHED THERMOSTATS SHALL BE CAPABLE OF RECIEVING AN EXTERNAL "OCCUPIED" SIGNAL.
20. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
21. REFERENCE RTU TO TBANS CONNECTIONS PER E7.1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
22. LOW VOLTAGE CONNECTIONS TO SMOKE DETECTORS, REMOTE ANNUCIATORS AND RESETS, HUMIDISTATS, THERMOSTATS, REMOTE SENSORS, TBCCB AND TBANS REQUIRE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0 CERTIFICATE.

MECHANICAL NOTES 6

SYMBOL & ABBREV.		DESCRIPTION
	SA/SUP	SUPPLY AIR (RISE/DROP)
	RA/RET	RETURN AIR DUCT (RISE/DROP)
	EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
	CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
	RR/RG	RETURN REGISTER/GRILLE
	ER/EG	EXHAUST REGISTER/GRILLE
	FLEX	FLEXIBLE DUCT (14'-0" MAXIMUM)
		ROUND DUCT ELBOW
		ROUND DUCTWORK
	MCD	MANUAL VOLUME DAMPER
		DUCT TRANSITION (RECTANGULAR TO ROUND)
T	T-STAT	PROGRAMMABLE THERMOSTAT, PROVIDED WITH HVAC PACKAGE
TS		THERMOSTAT SENSOR (REMOTE), PROVIDED WITH HVAC PACKAGE
H		HUMIDITY SENSOR (REMOTE), PROVIDED WITH HVAC PACKAGE
SD		SMOKE DETECTOR, PROVIDED WITH HVAC PACKAGE, MOUNTED IN UNIT
—— D ——	D	CONDENSATE DRAIN
Ø	DIA.	DIAMETER
0000 X-X		MECHANICAL EQUIPMENT DESIGNATION
R	RESET	SMOKE DETECTOR RESET

SYMBOL & ABBREV.		DESCRIPTION
	A/C, AC	AIR CONDITIONING
	A.F.F.	ABOVE FINISHED FLOOR
	BDD	BACK DRAFT DAMPER
	CB	CIRCUIT BREAKER
	CLG.	CEILING
	CONN.	CONNECT/CONNECTION
	CONT.	CONTINUATION
	CFM	CUBIC FEET PER MINUTE
	DISC.	DISCONNECT
	EA	EXHAUST AIR
	EF	EXHAUST FAN
(E)		EXISTING
	GA.	GAGE/GAUGE
	GC	GENERAL CONTRACTOR
	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
	MFR.	MANUFACTURER
	MECH.	MECHANICAL
	OA	OUTSIDE AIR
	OBD	OPPOSED BLADE DAMPER
	RA	RETURN AIR
	SA	SUPPLY AIR
	S/S	STAINLESS STEEL
	TYP.	TYPICAL

MECHANICAL SYMBOLS 7

GREEN		FAN DATA					COOLING CAPACITY			HEATING CAPACITY				ELECTRICAL DATA					
MARK	AREA SERVED	SUPPLY CFM	MIN. OA CFM	ESP	HP	RPM	NOMINAL TONS	MIN CAP (MBH) TOT/SEN	MIN EER	INPUT (MBH)	OUTPUT (MBH)	HEATING STAGES	AFUE %	VOLTS/ PH	MCA (A)	MOCP (A)	WEIGHT (LBS.)	MODEL	NOTES
RTU-1	DINING	3000	675	0.8	2	979	7.5	93.0/67.9	12.5	180	144	2	80	208/3	42	50	1443	LGH092H4B	1,2,3,4,5,6,7,8,9,10,11,12,13,14
RTU-2	KITCHEN	5000	1125	1.0	5	1045	12.5	154.8/116.1	12.3	180	144	2	80	208/3	71	90	1450	LGH150H4B	1,2,3,4,5,6,7,8,9,10,11,12,13,14

SCHEDULE NOTES:
1. LISTED CAPACITY IS THE UNIT'S NET COOLING CAPACITY AT THE FOLLOWING CONDITIONS: RTU-1 - 80.8°F DB / 68.5F WB EAT AND 95°F AMBIENT / RTU-2 - 79.6°F DB / 67.7°F WB EAT AND 95°F AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER 95°F & 73°F WB, WINTER 0°F. THERMOSTAT SHALL BE PROGRAMMED FOR 73°F IN SUMMER AND 68°F IN WINTER WITH 2°F ADJ. FUNCTION UP OR DOWN. THE UNOCCUPIED TEMP SHALL BE SET TO THE STORE SCHEDULE AND 60°F MINIMUM. SPECIFIED UNITS INCLUDE MINIMUM 2 STAGE COOLING, LOW AMBIENT CONTROL TO 0 DEG. F AND THROUGH THE ROOF CURB CURB GAS AND POWER CONNECTIONS..
2. HINGED ACCESS DOORS (FACTORY PROVIDED).
3. 2 INCH MERV 8 FILTER (FACTORY PROVIDED).
4. SINGLE ENTHALPY ECONOMIZER/W HOOD (FACTORY PROVIDED).
5. HIGH PERF ECONOMIZER (FACTORY PROVIDED).
6. STANDARD STATIC POWER RELIEF/W HOOD (FACTORY PROVIDED).
7. UNIT MOUNTED DISCONNECT SWITCH (FACTORY PROVIDED).
8. RETURN AIR SMOKE DETECTOR (FACTORY PROVIDED).
9. PHASE MONITOR (FACTORY PROVIDED).
10. CONSTANT AIR VOLUME (FACTORY PROVIDED).
11. 14" ROOF CURB (FIELD INSTALLED).
12. COMFORT SENSE 7500 THERMOSTAT (FIELD INSTALLED).
13. GFCI (FIELD WIRED, FACTORY INSTALLED).
14. PROVIDE HOT GAS REHEAT. HUMIDITY SENSOR TO BE MOUNTED IN THE RETURN AIR AT THE UNIT.

HVAC UNIT SCHEDULE 1

GREEN	FAN DATA								
Mark	CFM	ESP	RPM	HP	VOLTS/PH	DRIVE TYPE	MANUFACTURER	MODEL	NOTES
EF-1	1050	0.9	1344	1/2	120/1	DIRECT	STRATOVENT	#SVDU50HFA	1,3,5,6,7,8,10
EF-2	570	0.375	1025	1/4	120/1	DIRECT	STRATOVENT	#SVDR30HFA	2,4,7,8,9,10,11

REMARKS:
1. UL 762 LISTED (GREASE)
2. UL 705 LISTED (HEAT OR STEAM)
3. FLAT ROOF CURB, 19.5" X 19.5" X 26"H, VENTED
4. FLAT ROOF CURB, 19.5" X 19.5" X 14"H
5. GREASE CUP WITH DRAIN
6. FACTORY ATTACHED HINGES
7. WEATHERPROOF PRE-WIRED DISCONNECT SWITCH
8. PROVIDE PRE-WIRED SOLID STATE SPEED CONTROLLER
9. GRAVITY BACKDRAFT DAMPER
10. FURNISHED BY OWNER WITH HOOD PACKAGE
11. FURNISHED WITH DAMPER TRAY

EXHAUST FAN SCHEDULE 2

MARK	NECK SIZE	FACE SIZE OR GRID SIZE	(NO.) & AIR PATTERN	TYPE	MAX FLOW (CFM)	MOUNTING	MATERIAL	MANUFACTURER	MODEL NUMBER	REMARKS
E-1	8"X8"	12"x12"	-	EXHAUST	200	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5S-1/ 50F	FRN SQR TO RND ADAPTER
E-2	8"DIA	24"x24"	-	EXHAUST	300	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5-FB-TB/50F-NT	FRN SQR TO RND ADAPTER
R-1	22"X22"	24"x24"	-	RETURN	2000	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	RHE-6/50FF	HINGED/FULLY REMOVABLE FACE
S-1	15"X15"	24"x24"	4W	SUPPLY	600	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	5000-6 / TDC-AA-NT	FRN SQR TO RND ADAPTER
S-2	9"X9"	14"x14"	4W	SUPPLY	250	SURFACE	ALUMINUM	METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQR TO RND ADAPTER
S-4	22"X22"	24"x24"	4W	SUPPLY	600	LAY-IN	MODULAR PLASTIC CORE	HART & COOLEY	RZMCDST	FRN SQR TO RND ADAPTER
T-1	24"X16"		VERT	RETURN	0	DUCT	ALUMINUM	Titus	350RL	RETURN/TRANSFER AIR GRILLE

NOTES:
1. SURFACE MOUNTED DIFFUSERS IN HARD CEILINGS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

AIR DEVICE SCHEDULE 3

TACO BELL HAS A NATIONAL HVAC AGREEMENT WITH LENNOX NATIONAL ACCOUNTS. FOR QUOTES & TECHNICAL SPECIFICATIONS CONTACT BY EMAIL AT YUM!@LENNOXIND.COM OR 800-367-6285 ACCOUNT MANAGER BRAD SMITH.

LENNOX HAS AGREED TO SUPPLY AN HVAC PACKAGE CONSISTING OF THE ROOF-TOP UNITS, CURBS, THERMOSTATS, TEMPERATURE SENSORS (REMOTE), AND HUMIDITY SENSORS (REMOTE). RTU'S AS SPECIFIED INCLUDE AN UNPOWERED CONVENIENCE OUTLET (SEE ELECTRICAL) AND AN HACR CIRCUIT BREAKER WHICH SERVES AS UNIT DISCONNECT.

FOR HVAC TEST AND BALANCE, GC TO SCHEDULE WITH TACO BELL'S PREFERRED VENDOR PER SCOPE OF WORK WORKSHEETS. BE PREPARED AT TIME OF ORDER OR QUOTE REQUEST TO PROVIDE ALL PROJECT DETAILS REGARDING SPECIFICATIONS AND QUANTITIES AS SITE SPECIFIC DESIGN MAY NOT MATCH NATIONAL DESIGN.

SEE THE SCOPE OF WORK SHEETS FOR ADDITIONAL INFORMATION.

HVAC NATIONAL ACCOUNT NOTES 5

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	-1050	-1050
EF-2	--	--	--	-570	-570
RTU-1	675	2325	3000	--	+675
RTU-2	1125	3875	5000	--	+1125
TOTAL	1800	6200	8000	-1620	+180

NOTES:
- OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 22.5% FOR RTU-1 AND RTU-2.
- ADJUST OUTSIDE AIR INTAKES TO MAINTAIN VALUES AT ALL EVAPORATOR FAN SPEEDS.

AIR BALANCE SCHEDULE 4

GPD Engineering and Architecture Professional Corporation - C3879
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	CK
JOB NO.:	2020088.07

TACO BELL

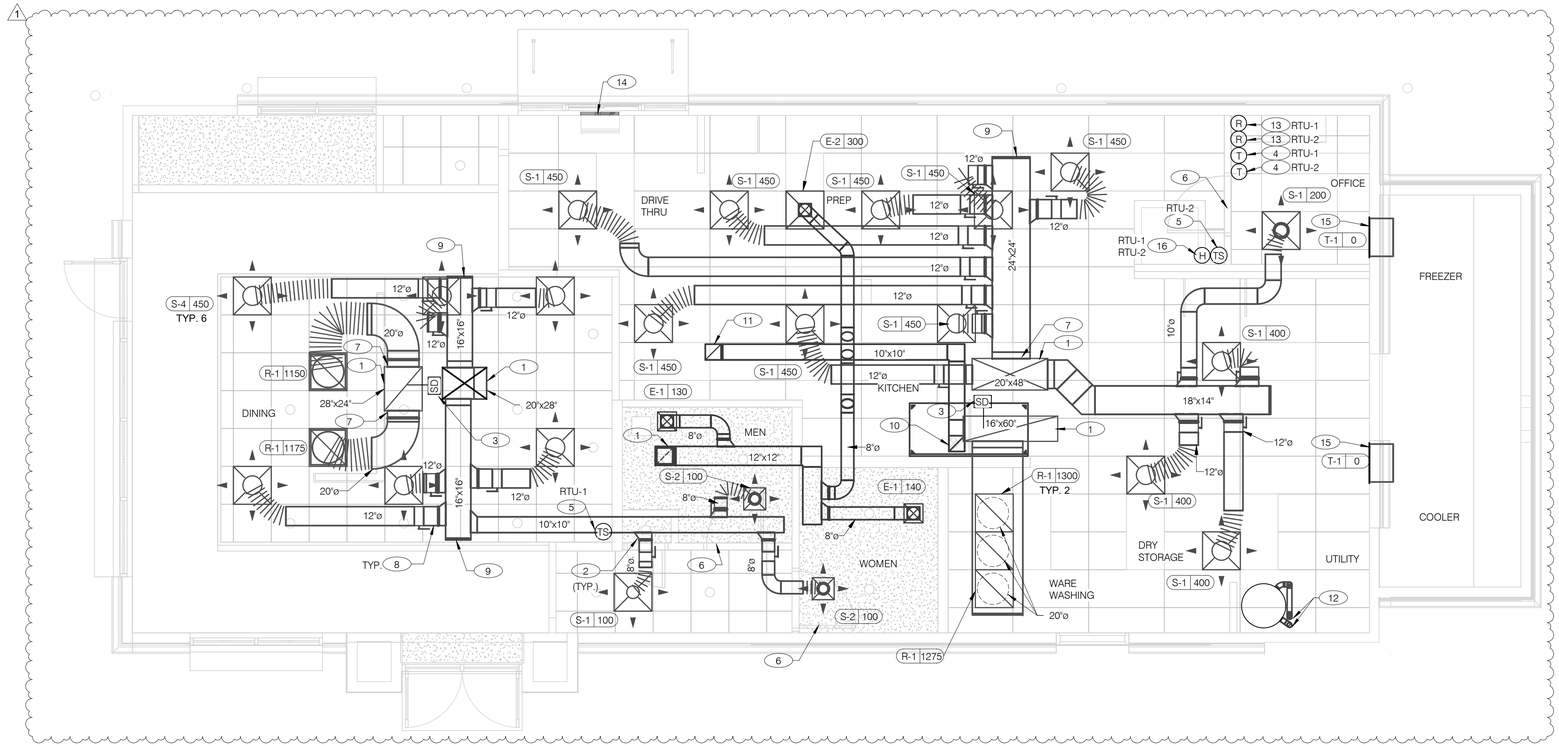
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
MECHANICAL SCHEDULES AND NOTES

M1.0

PLOT DATE: 3/31/2022 12:49:14 PM

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.

DUCT AND DIFFUSER PLAN 1/4" = 1'-0" A

1. DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND STRUCTURAL.
2. THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE AND REMOTE TEMPERATURE SENSOR (PROVIDED WITH RTU PACKAGE).
3. HUMIDITY SENSOR APPLICATION IS VARIABLE PER SITE SPECIFIC CONDITIONS. REFER TO HVAC UNIT SCHEDULE FOR APPLICATION CONDITIONS.

GENERAL NOTES - MECHANICAL NTS C

(1) AIR DUCT UP TO UNIT.

(2) SEE DETAIL 4 ON DRAWING M4.0 FOR SUPPLY AIR TAKE-OFF TO CEILING DIFFUSERS AND GRILLES.

(3) FACTORY INSTALLED SMOKE DETECTOR MOUNTED IN ROOFTOP UNIT.

(4) LOCATE THERMOSTAT CONTROLS ON WALL IN OFFICE AT 48" A.F.F. COORDINATE LOCATION WITH LIGHT SWITCHES AND OTHER WALL MOUNTED ACCESSORIES. RUN 24 VAC POWER AND SIGNAL CONDUCTORS IN TWO (2) SEPARATE TWO (2) CONDUCTOR CABLES, 18 AWG.

(5) MOUNT THERMOSTAT REMOTE SENSOR AT 60" ABOVE FINISHED FLOOR. CONNECT TO THERMOSTAT WITH 18 AWG 2 CONDUCTOR CABLE PER MANUFACTURER INSTALLATION INSTRUCTIONS. ENSURE THAT TEMPERATURE SENSOR IN DINING AREA IS NOT LOCATED ON TILE WALL.

(6) UNDERCUT RESTROOM DOORS MINIMUM 3/4" FOR MAKE-UP AIR.

(7) PROVIDE SHOE TAP AT CONNECTION TO DUCT DROP FROM ROOFTOP UNIT.

(8) RUN DUCT THROUGH OPEN WEBBING OF ROOF TRUSSES (WHERE POSSIBLE). COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.

(9) RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE UNDER ROOF JOISTS.

(10) 10"X10" EXHAUST AIR DUCT DOWN AND TRANSITION TO FIELD CUT EXHAUST CONNECTION AT HOOD.

(11) EXHAUST DUCT SHALL RUN BETWEEN ROOF JOISTS TO CONNECT TO ROOF EXHAUST FAN EF-1. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAIL 10 ON SHEET M4.0 FOR FIRE PROTECTION OF DUCT WORK. SEE DETAIL 11 ON SHEET M4.0 FOR EXHAUST DUCT TRANSITION.

(12) PROVIDE 3" PVC WATER HEATER INTAKE AND FLUE VENT. TERMINATION ON ROOF. COORDINATE WORK WITH ALL TRADES.

(13) PROVIDE SMOKE DETECTOR RESET SWITCH WITH KEY. RESET SWITCH SHALL BE "SYSTEM SENSOR" MODEL # RT5151 KEY. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MANUFACTURER'S REQUIREMENTS.

(14) PROVIDE AIR CURTAIN IN LOCATION AS SHOWN ON PLAN. MOUNT AIR CURTAIN ON MULLION DIRECTLY ABOVE SERVICE OPENING DOORS AT DRIVE-THRU WINDOW. AIR CURTAIN SHALL BE BERNER MODEL DTU03-2026A, WITH 120/1/60 POWER CONNECTION. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MORE DETAILS.

(15) TRANSFER AIR GRILLE MOUNTED ABOVE CEILING TO ALLOW TRANSFER AIR TO PREVENT FREEZING ABOVE WALK-IN COOLER/FREEZER. COORDINATE IN FIELD WITH OTHER TRADES TO ENSURE NO OBSTRUCTIONS.

(16) HUMIDITY SENSOR (REMOTE). MOUNT HUMIDITY SENSORS FOR RTU-1 & RTU-2 AT EYE LEVEL IN KITCHEN. VERIFY EXACT LOCATION.

KEYNOTES - DUCT AND DIFFUSER NTS B

GPD Engineering and Architecture
Professional Corporation - C3879

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
1	03.29.22	Building Comments
	04.01.22	Issued for Bid

CONTRACT DATE: 12.08.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314703
STORE NUMBER: 454826
PA/PM: JW
DRAWN BY.: CK
JOB NO.: 2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
DUCT AND DIFFUSER PLAN

M2.0

PLOT DATE: 3/31/2022 12:49:16 PM

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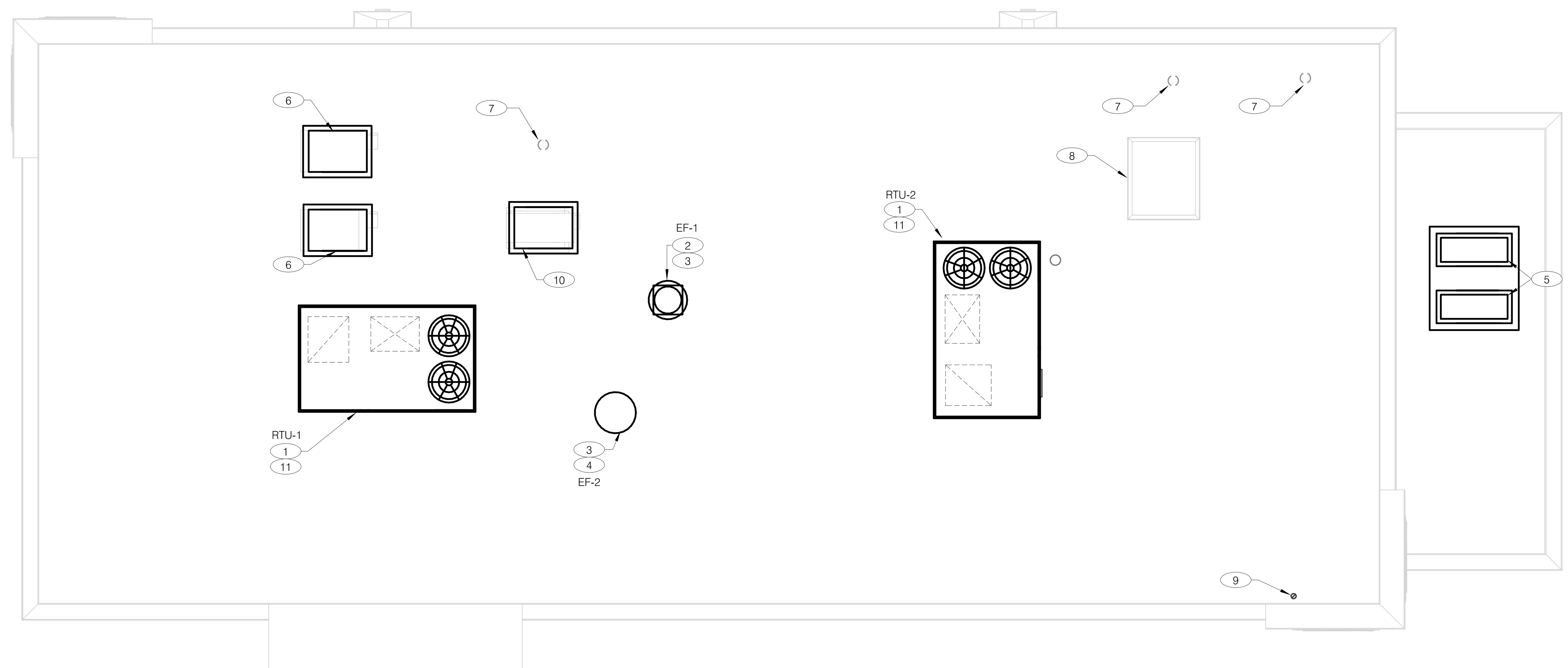

COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.

MECHANICAL ROOF PLAN 1/4" = 1'-0" A

1. PROVIDE RTU IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS LAYOUT. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST TERMINATIONS.
2. PROVIDE TYPE I EXHAUST FAN IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM EXHAUST HOOD UP TO EF-1 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
3. COORDINATE EXHAUST FAN LOCATION WITH ROOFTOP UNIT. MAINTAIN ROOFTOP UNIT MANUFACTURER'S REQUIRED CLEARANCE AND MINIMUM 10 FT TO ROOFTOP UNIT'S OUTSIDE AIR INTAKE.
4. PROVIDE EXHAUST FAN IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM RESTROOM EXHAUST GRILLES TO EF-2 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
5. CONDENSING UNIT SERVING WALK-IN COOLER/FREEZER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
6. CONDENSING UNIT SERVING ICE MAKER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
7. PLUMBING VENT. REFERENCE 1/P2.0.
8. ROOF HATCH. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
9. PROVIDE MANUFACTURER'S CONCENTRIC TERMINATION VENT KIT SERVING HOT WATER HEATER BELOW. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. ENSURE AT LEAST 10'-0" DISTANCE BETWEEN OUTDOOR AIR INTAKES.
10. CONDENSING UNIT SERVING FROZEN BEVERAGE MACHINE. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
11. ALL UTILITY PIPING FOR RTU'S SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.

KEYNOTES - MECHANICAL ROOF PLAN NTS B

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04.01.22	Issued for Bid

CONTRACT DATE:	12.08.21
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BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
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PA/PM:	JW
DRAWN BY.:	CK
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

TACO BELL

ENDEAVOR 2.0
MECHANICAL ROOF PLAN

M2.1

PLOT DATE: 3/31/2022 12:49:17 PM

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FOR REFERENCE ONLY

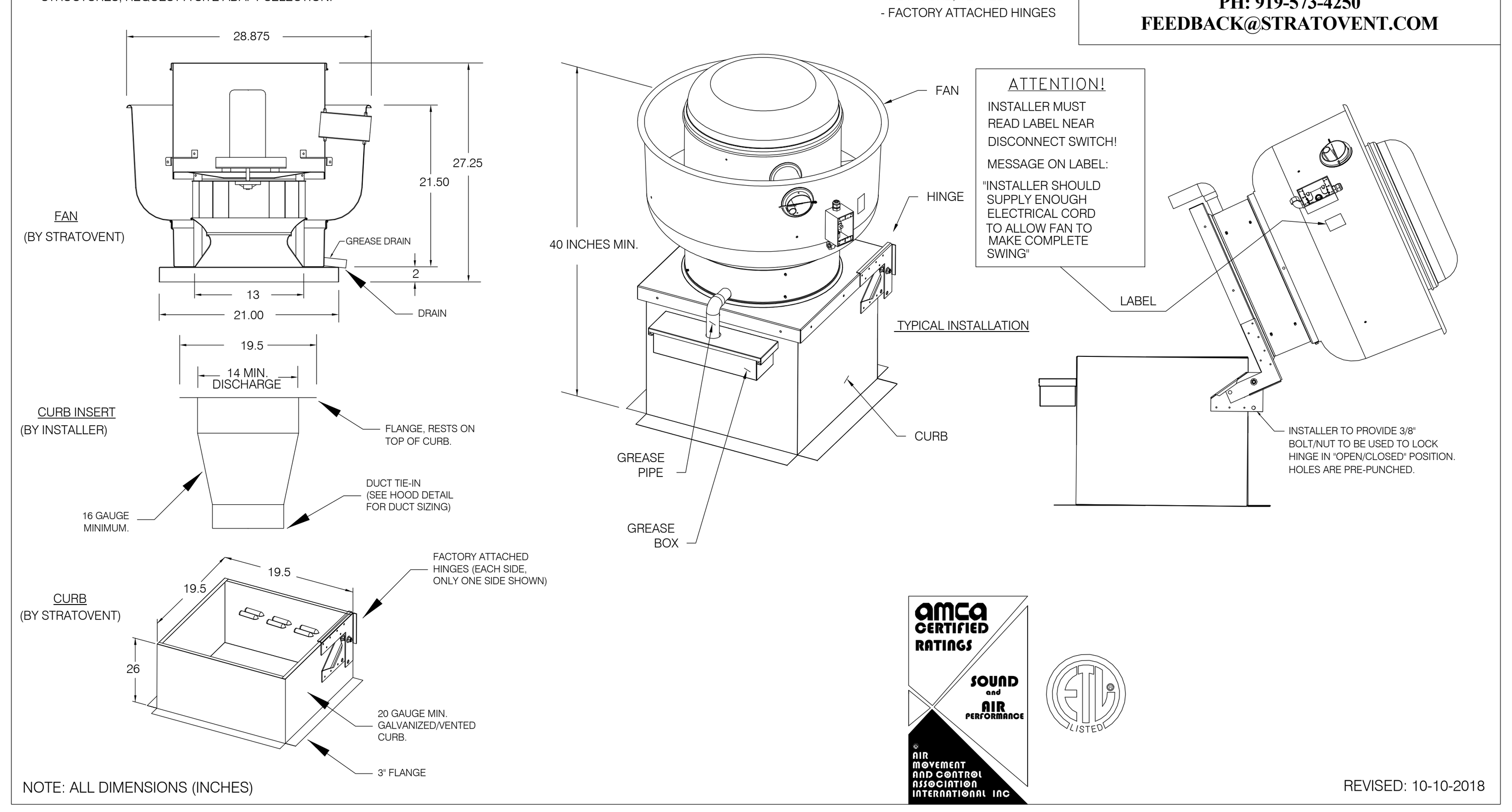
STRATOVENT MODEL# SVDU50HFA

TAG	HOOD	STRATOVENT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	▯	VOLT	FLA	MCA/MOP	WEIGHT (LBS.) FAN/CURB	SONES
EF-1	FRYER	SVDU50HFA	1050	0.9"	1429	0.50	0.33	1	115	8.4	10.5/15	85/40	14.5

SIZING NOTE: THE SELECTED FAN IS SUITABLE FOR MOST SINGLE STORY BUILDINGS. FOR LONGER DUCT RUNS, OR MULTI-STORY STRUCTURES, REQUEST A SITE ADAPT SELECTION.

SELECTED OPTIONS
- RESTAURANT MODEL
- UL762, GREASE RATED
- DIRECT DRIVEN
- SPEED CONTROLLER
- WEATHERPROOF DISCONNECT
- FLAT CURB, VENTED
- FACTORY ATTACHED HINGES

STRATOVENT
CALIFORNIA-OKLAHOMA-NORTH CAROLINA
PH: 919-573-4250
FEEDBACK@STRATOVENT.COM

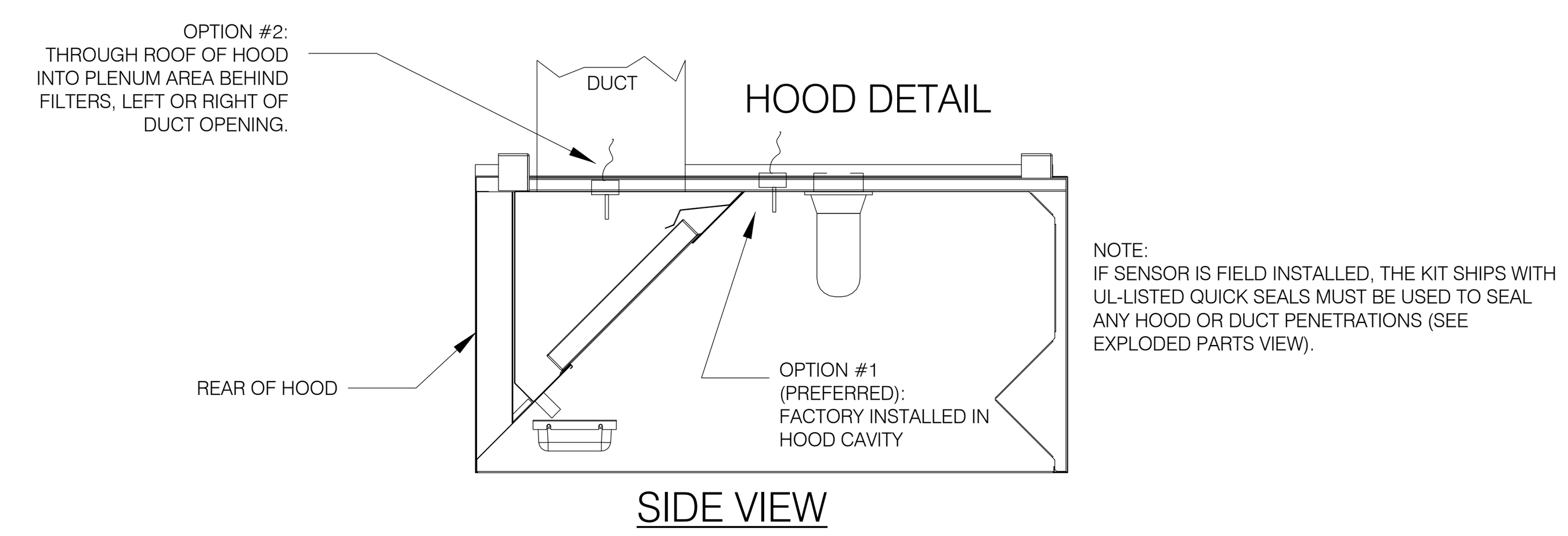


NOTE: ALL DIMENSIONS (INCHES)

REVISED: 10-10-2018

HOOD EXHAUST FAN DETAIL NTS **7**

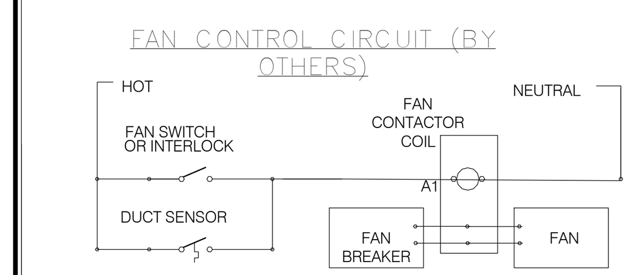
INSTALLATION: DUCT TEMPERATURE SWITCH



NOTE: IF SENSOR IS FIELD INSTALLED, THE KIT SHIPS WITH UL-LISTED QUICK SEALS MUST BE USED TO SEAL ANY HOOD OR DUCT PENETRATIONS (SEE EXPLODED PARTS VIEW).

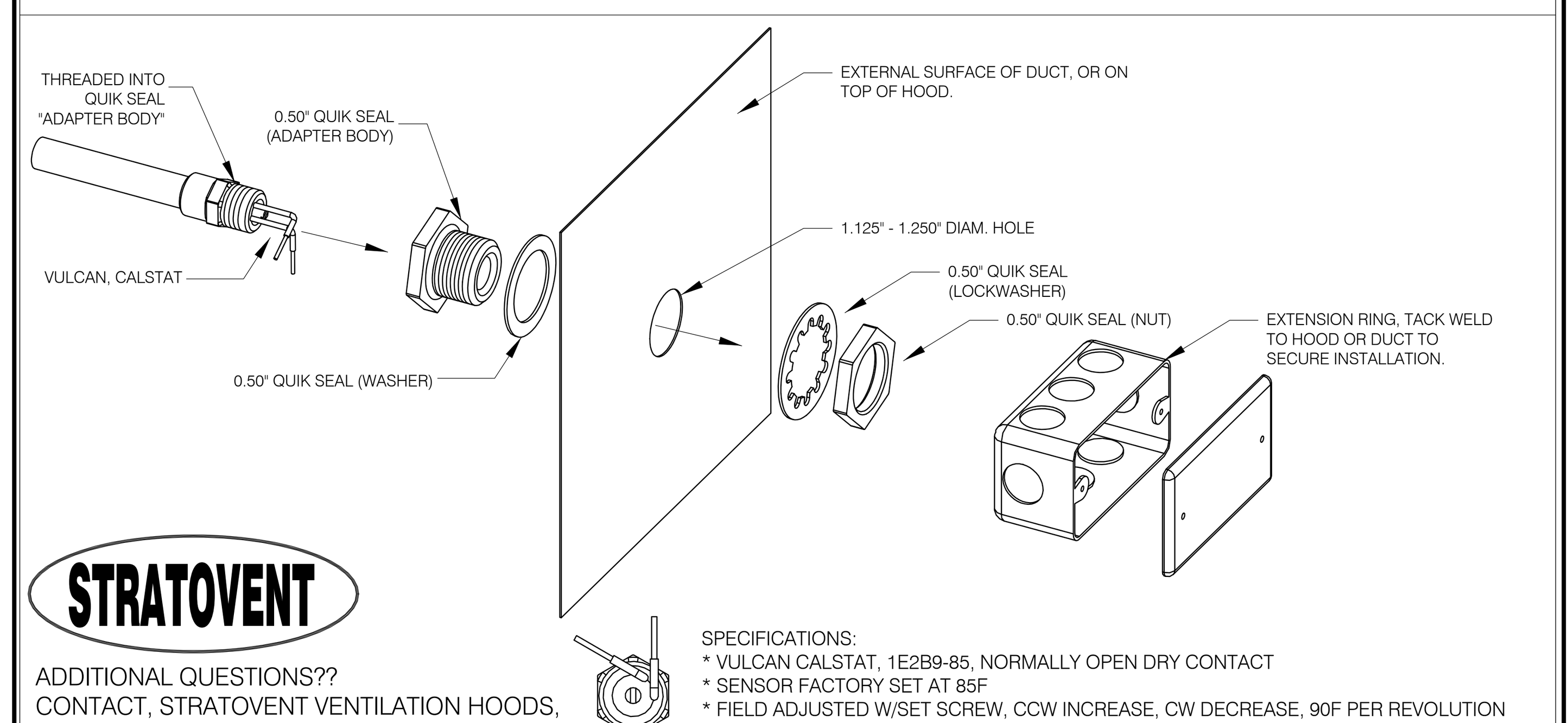
INSTALLATION: DUCT TEMPERATURE SENSOR

SENSOR DETAIL



NOTE: GENERIC WIRING DEPICTION. SEE PLANS FOR PROPER INTEGRATION.

(1) NORMALLY OPEN DRY CONTACT, CLOSES ON TEMPERATURE RISE ABOVE 85F. WIRED IN PARALLEL TO NORMAL CONTROL CIRCUIT. WHEN ORDERED, SENSOR IS FACTORY INSTALLED IN HOOD CAVITY WITH J-BOX ON TOP OF THE HOOD.
(2) DO NOT USE SENSOR AS THE PRIMARY MEANS OF FAN CONTROL. USED ONLY AS A SAFETY DEVICE PER INTERNATIONAL MECHANICAL CODE TO ENERGIZE HOOD EXHAUST FAN WHEN COOKING EQUIPMENT GENERATES HEAT.
(3) FAN CONTACTOR AND CONTROLS BY OTHERS, SEE ELECTRICAL SHEETS FOR DETAILS.
(4) SEE SPECS ABOVE FOR TEMP SET POINT ADJUSTMENT



STRATOVENT

ADDITIONAL QUESTIONS??
CONTACT, STRATOVENT VENTILATION HOODS,
919-573-4250 - 251-490-6114
JEFF.JOHNSON@STRATOVENT.COM

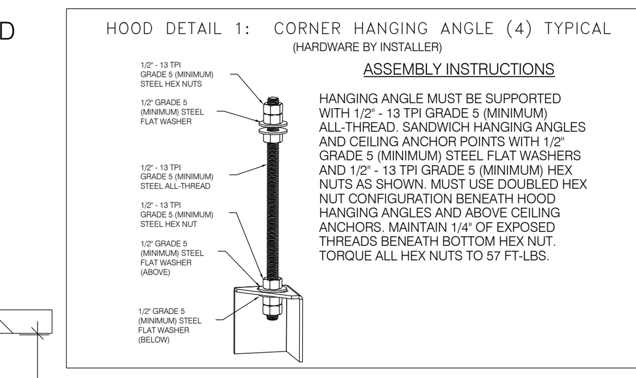
SPECIFICATIONS:
* VULCAN CALSTAT, 1E2B9-85, NORMALLY OPEN DRY CONTACT
* SENSOR FACTORY SET AT 85F
* FIELD ADJUSTED W/SET SCREW, CCW INCREASE, CW DECREASE, 90F PER REVOLUTION
* RATED FOR 10 AMPS @ 120 VAC, 5 AMPS @ 240 VAC
* SHIPPED FACTORY INSTALLED IN HOOD CAVITY

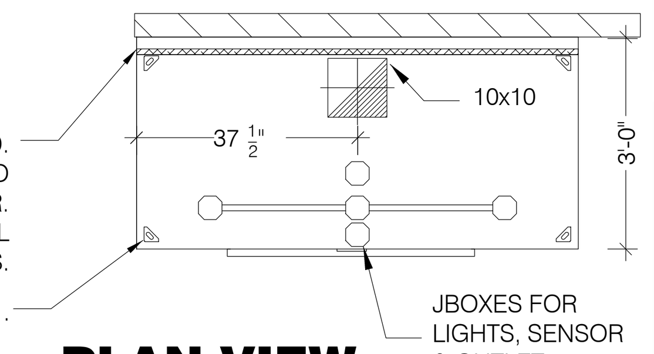
MODIFIED: 04-11-2020

HEAT SENSOR ATTACHMENT NTS **5**

HOOD #	1 OF 1	MODEL #	STRATOVENT SVBD2
LENGTH (IN): 6'-3"	WIDTH (IN): 36"	HEIGHT (IN): 14"H	
EXHAUST CFM:	1050	SUPPLY CFM:	BY RTU-SEE M1.0
EXHAUST SP:	0.9" (HOOD+DUCT)	SUPPLY SP:	NA
EXHAUST FPM:	1512	SUPPLY FPM:	NA
EXH. SIZE:	10"X10"	SUP SIZE:	NA
FILTERS: (4)	16" X 16"	HOOD WEIGHT:	300 LBS
FIRE SUPPRESSION:	ANSUL-R102	FILTER TYPE:	STAINLESS BAFFLE
LIGHT QTY: (3)	A19/ CFL	CONTROL SWITCH:	BY OTHERS

DESIGN NOTES:
- STRATOVENT HOODS ARE ETL LISTED TO UL-710 STANDARDS, 3054804-001
- MODEL SVBD2 IS A NON-CANOPY HOOD, "LISTED" VALUES ARE UTILIZED FOR AIRFLOW, OVERHANGS AND TEMPERATURE RATINGS.
- 18/20 GAUGE MINIMUM S/S ON EXPOSED SURFACES PER NFPA.
- HOOD IS PRE-PIPED FOR ANSUL R102, FIELD HOOKUP BY OTHERS
- INSTALLER TO REVIEW ELECTRICAL SHEETS FOR HOOD AND FAN WIRING. STRATOVENT DOES NOT PROVIDE A CONTROL BOX IN THE "BASE" PACKAGE.

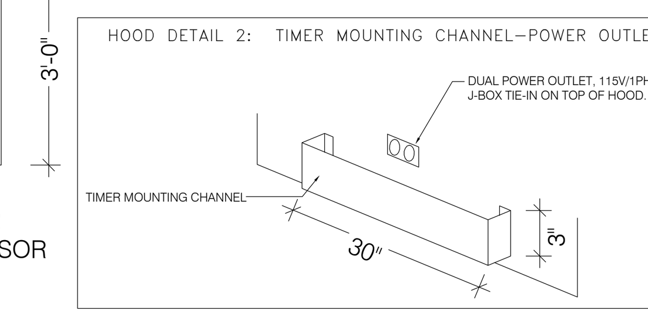




3" INTEGRAL REAR STAND-OFF. FACTORY INSULATED. HOOD ASSEMBLY IS LISTED AND LABELED FOR ZERO CLEARANCE TO COMBUSTIBLE IN THE REAR. ARCHITECT MUST VERIFY COMPLIANCE WITH ALL LOCAL CODES CONCERNING CLEARANCES.

HOOD DETAIL 1.

JBOXES FOR LIGHTS, SENSOR & OUTLET



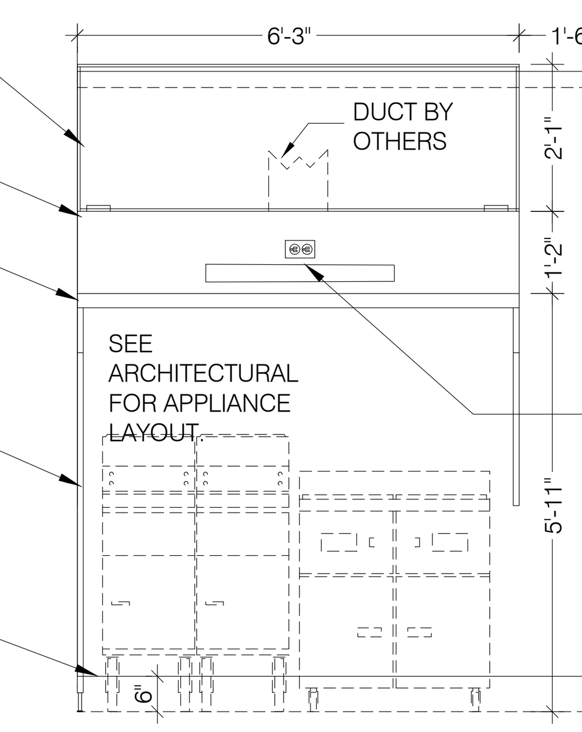
25" TALL DUCT ENCLOSURE PANELS, FRONT, LEFT & RIGHT SIDES (PROVIDED WITH HOOD, GC INSTALLED).

TOP EDGE OF HOOD.

LOWER, LEADING EDGE OF HOOD, 71" ABOVE FINISHED FLOOR.

END PANELS , PROVIDED BY STRATOVENT, SEE SIDE VIEW DETAIL. FIELD INSTALLED BY GC.

106"H X 95"L, BACKSPLASH, COVERING REAR WALL AND 18" BEYOND THE HOOD. ADJUST SIZE TO SUIT SITE CONDITIONS. MINIMUM 20 GA. STAINLESS STEEL PROVIDED BY HOOD VENDOR.



TOP OF S/S BACKSPLASH, SLIGHTLY ABOVE DROP CEILING.

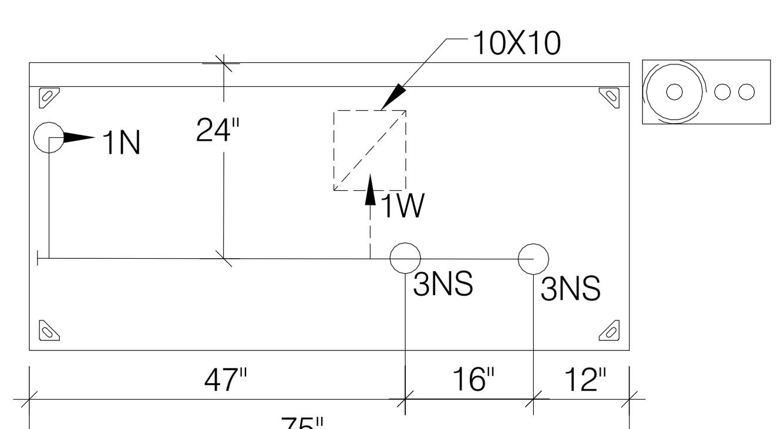
8'-10" HIGH, DROP CEILING (TYPICAL). HOOD PROVIDER MUST BE NOTIFIED IF CEILING HEIGHT VARIES TO ADJUST TRIM HEIGHT. VERIFY WITH ARCHITECTURAL SHEETS

HOOD DETAIL 2: 30"L x 3"H, FACTORY ATTACHED MOUNTING CHANNEL FOR CUSTOMER SUPPLIED TIMERS. DUAL 115V/1PH OUTLET FACE MOUNTED ABOVE CHANNEL WITH J-BOX ON TOP OF HOOD.

STRATOVENT
REDDING, CA - RALEIGH, NC
800-474-0037 - WWW.STRATOVENT.COM - 251-490-6114
(UL/ULC-710-Standard) (NSF/ANSI Standard 2) NFPA INTERNATIONAL
ETL-LISTED FILE #3054804-001 / TESTED TO UL-710

UPDATED: 6FT-3IN LONG VERSION, 04-11-2020

TACO BELL HOOD DETAIL NTS **2**



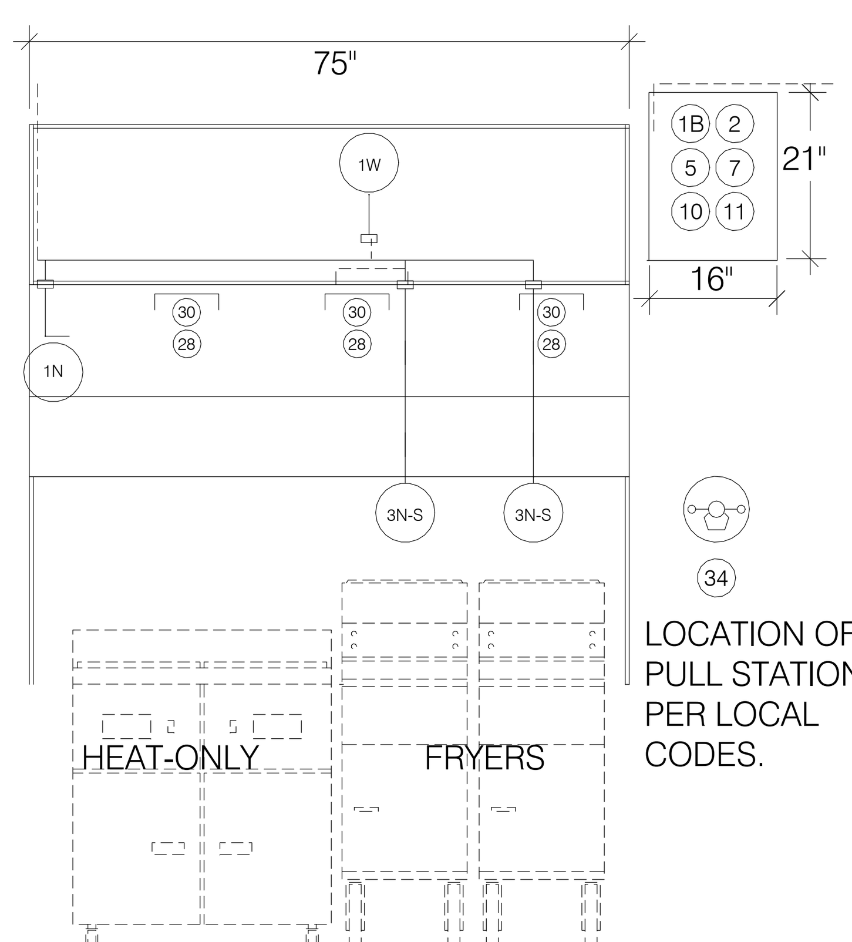
PLAN VIEW

PROJECT: TACO BELL

System Size: ANSUL-3.0 Gallons Total, R102
Flow Points: 8 Design, 11 (max)

Hood #1: 6'-3" L x 36" W x 14" H
Exhaust Riser Size: 10" x 10"

NOTES
- FIELD PIPE DROPS AS SHOWN: SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY STRATOVENT FOR HOOD-BASED PIPING.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE, MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- ALL NOZZLE HEIGHT AND PLACEMENT TO BE DETERMINED BY INSTALLER AND AHJ PER ANSUL GUIDELINES.
- ALL PIPING TO BE 3/8" SCH 40 BLACK IRON.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- SYSTEM INSTALLATION AND FINAL HOOKUP SOURCED BY GEN CONTRACTOR. SYSTEM PARTS OPTIONALLY PURCHASED FROM STRATOVENT BY OWNER OR G.C..



LEGEND - WALL MOUNTED ANSUL SYSTEM

(34) LOCATION OF PULL STATION PER LOCAL CODES.

1B	3.0 GALLON TANK
2	AUTOMAN RELEASE
5	ANSULEX LIQUID AGENT (3.0 GAL.)
7	CARTRIDGE (101-20)
10	TEST LINK
11	DOUBLE MICROSWITCH
1W	NOZZLE ASSEMBLY (419336)
1N	NOZZLE ASSEMBLY (419335)
3N	NOZZLE ASSEMBLY (419338)
28	DETECTOR BRACKET
30	HIGH TEMP FUSIBLE LINK
MGV	MECHANICAL GAS VALVE
34	REMOTE MANUAL PULL STATION
S	SWIVEL ADAPTOR

FRONT VIEW

DESIGN NOTE:
1) ABOVE DEPICTION SHOWS DUAL FRYERS ON RIGHT END OF THE HOOD. HOOD SUPPLIER WILL VERIFY EQUIP LAYOUT PER PLANS AND PLACE FRYER NOZZLES ON THE LEFT END WHEN APPROPRIATE TO SUIT SITE CONDITIONS

TACO BELL HOOD FIRE SUPPRESSION SYSTEM PLAN 12" = 1'-0" **6**

1. Hoods shall be constructed of minimum 20 gauge stainless steel with # 3 polish. All unexposed surfaces shall be constructed of minimum 18 gauge aluminized steel.
2. UL classified aluminum or stainless steel baffle-type filters shall be easily removed for cleaning. Filter housing shall terminate in a pitched grease trough that drains into a removable stainless steel grease cup.
3. UL listed and NSF approved vapor proof incandescent light fixtures pre-wired to junction box at top of hood in accordance with NEC 70.
4. Pre-piped fire suppression systems shall be located on the top of the hood and provided with the hood or by a certified technician. Final location of all nozzles and fire suppression drops to be locally approved and inspected.
5. Hood(s) shall be fabricated in accordance with NFPA Bulletin #96 and shall bear the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE# 3054804-001.

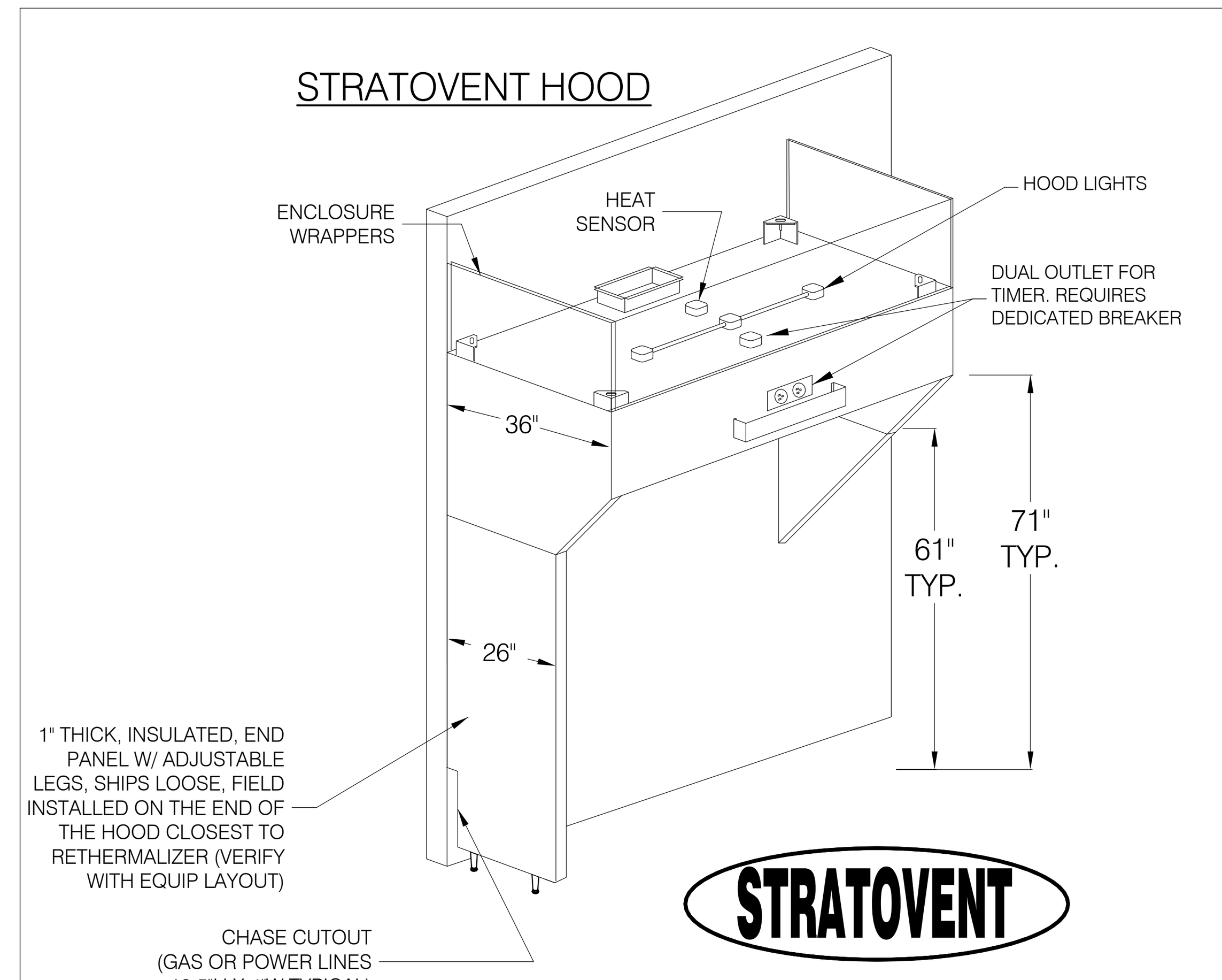
5. Hood(s) shall be fabricated in accordance with NFPA Bulletin #96 and shall bear the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE# 3054804-001.

NSF LISTED NAPA INTERNATIONAL

THIS HOOD DESIGN IS BASED UPON STRATOVENT, MODEL SVND2, MANUFACTURED BY:

STRATOVENT VENTILATION HOODS
RALEIGH, NC 27616
CONTACT: JEFF JOHNSON, 251-490-6114

HOOD NOTES AND SPECS (TYP.) NTS **4**



STRATOVENT-BRAND HOODS ARE CERTIFIED BY ETL-INTERTEK TO NATIONALLY RECOGNIZED UL-710 AND NSF STANDARDS.

CONTACT US:
WWW.STRATOVENT.COM
919-573-4250
FEEDBACK@STRATOVENT.COM

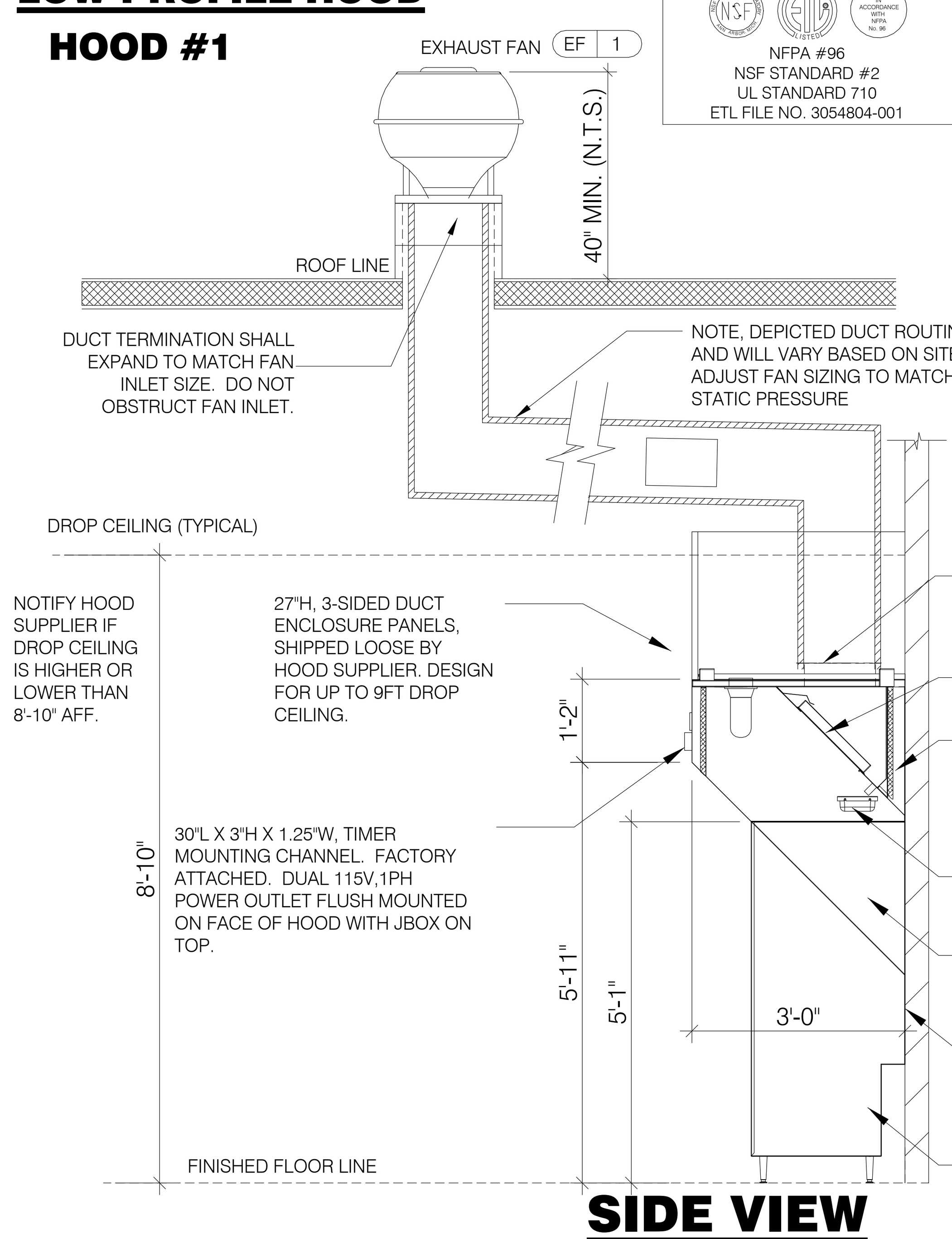
HOOD ISOMETRIC 12" = 1'-0" **3**

LOW-PROFILE HOOD
HOOD #1

STRATOVENT HOODS BUILT IN COMPLIANCE WITH
NFPA #96
NSF STANDARD #2
UL STANDARD 710
ETL FILE NO. 3054804-001

NON-CANOPY HOOD DESIGN BASED ON:
MANUFACTURER: STRATOVENT, MODEL SVBD2
ETL LISTED UL/ULC-710, ULC-S646: # 3054804-001
MIN. "LISTED" AIRFLOW: 150 CFM PER LINEAR
DESIGN AIRFLOW: 168 CFM PER LINEAR FT
MAX. DIST. ABOVE COOK SURFACE: 47"
MAX. COOK SURFACE FRONT UNDERHANG: - 3"
MIN. SIDE COOK SURFACE OVERHANG: 0"
MAX. APPLIANCE COOKING TEMPERATURE: 450 F

HOOD DESIGN QUESTIONS?
STRATOVENT KITCHEN VENTILATION
PHONE: 251.490.6114
JEFF.JOHNSON@STRATOVENT.COM



UPDATED: 6FT-3IN LONG VERSION, 04-11-2020

TACO BELL HOOD SECTION 12" = 1'-0" **1**

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	CK
JOB NO.:	2020088.07

TACO BELL
109 Tuckaseege Rd.
Mount Holly, NC 28120

TACO BELL

ENDEAVOR 1.0
HOOD DETAILS AND SECTIONS

M3.0

PLOT DATE: 3/31/2022 12:49:19 PM

C:\Users\cplaski\OneDrive - GPD Group\Documents\TB 314703 Mt Holly NC - MEP_SM20_CS(plaski)MSA.rvt

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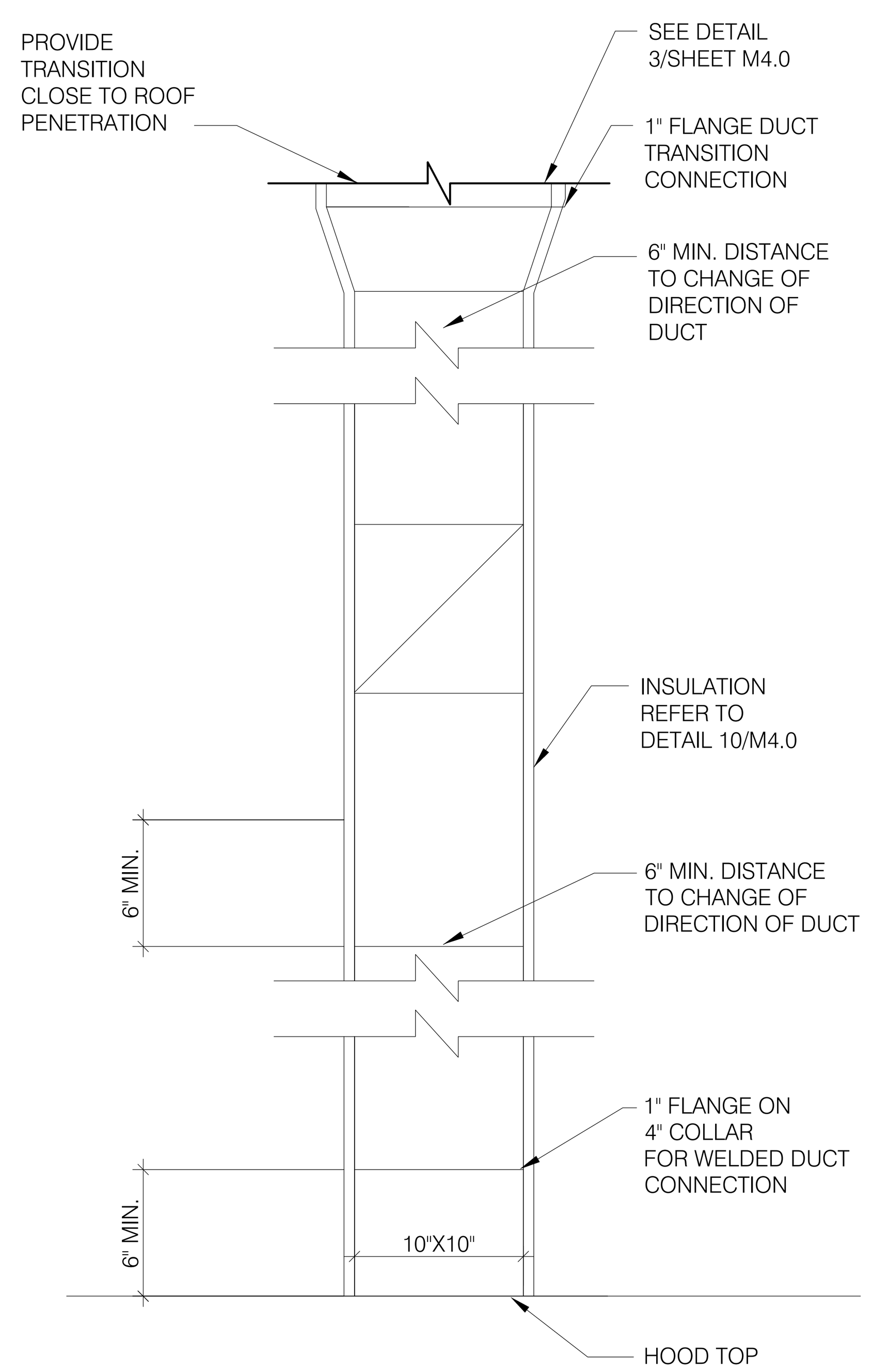
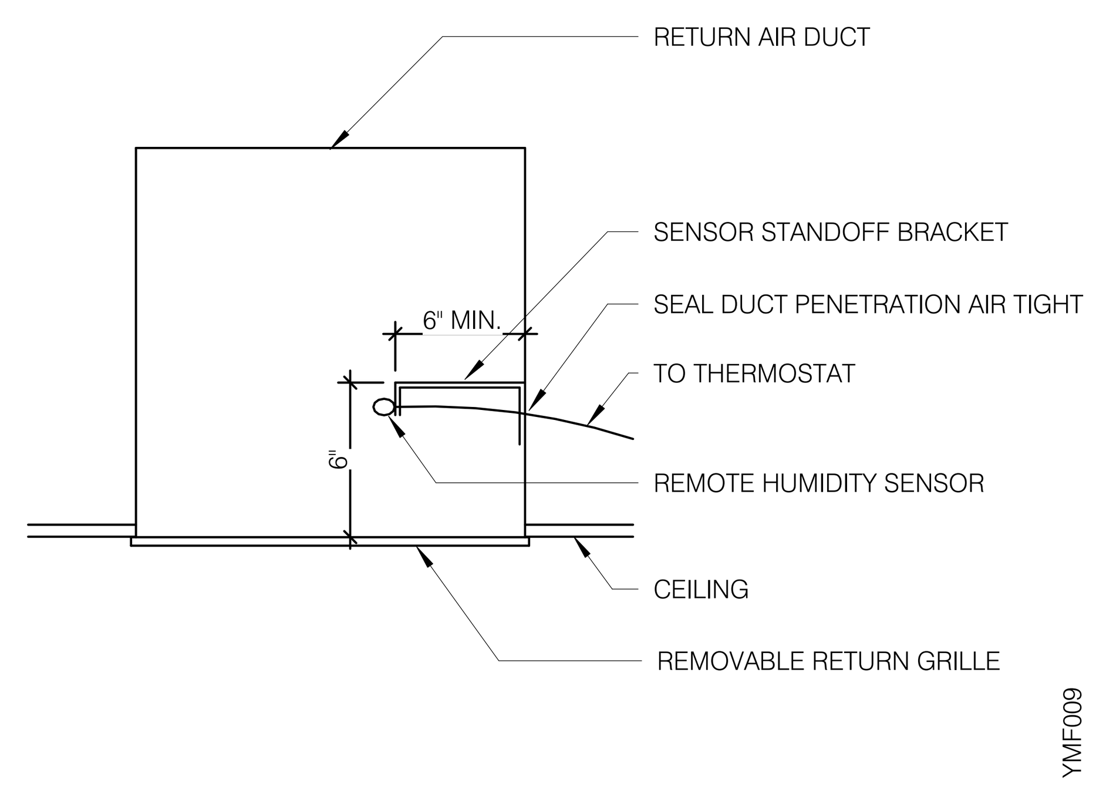
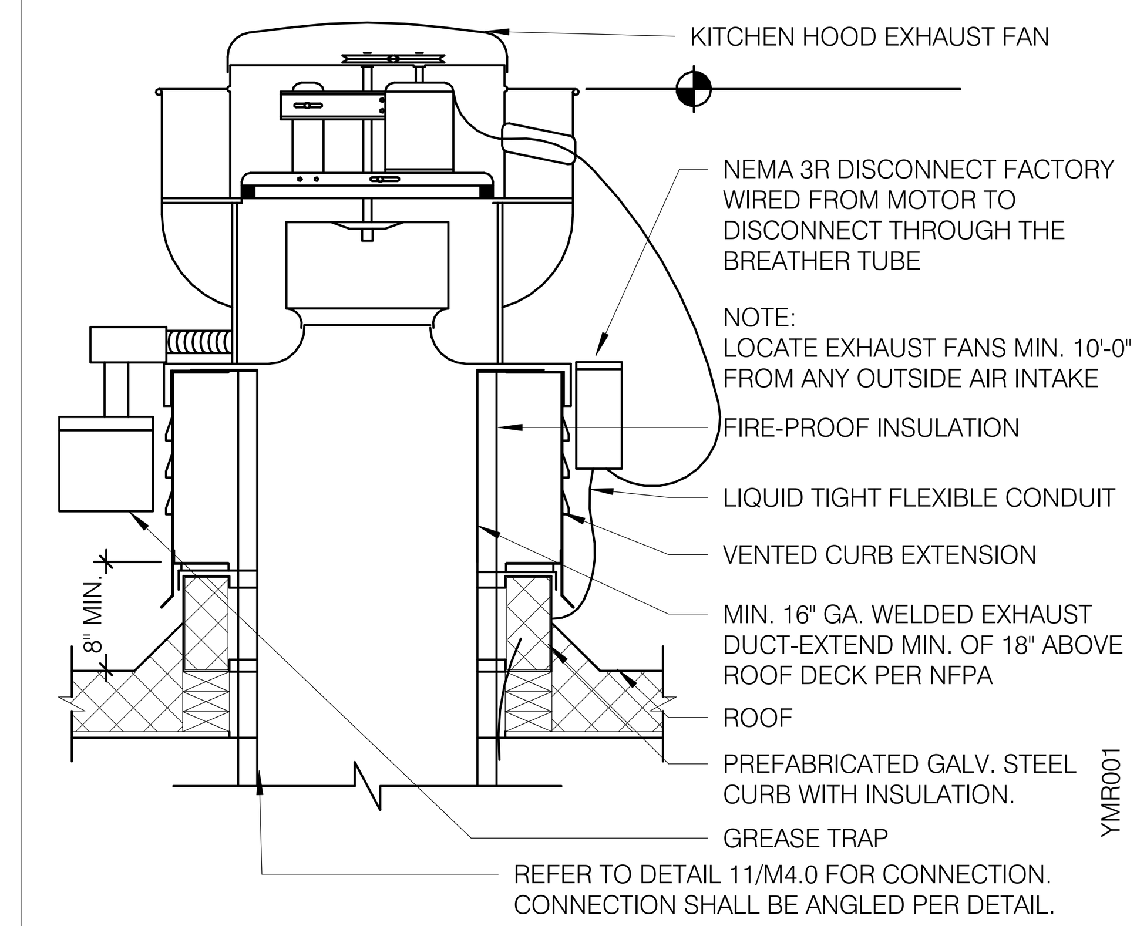


TB HOOD DUCT TRANSITION NTS 11

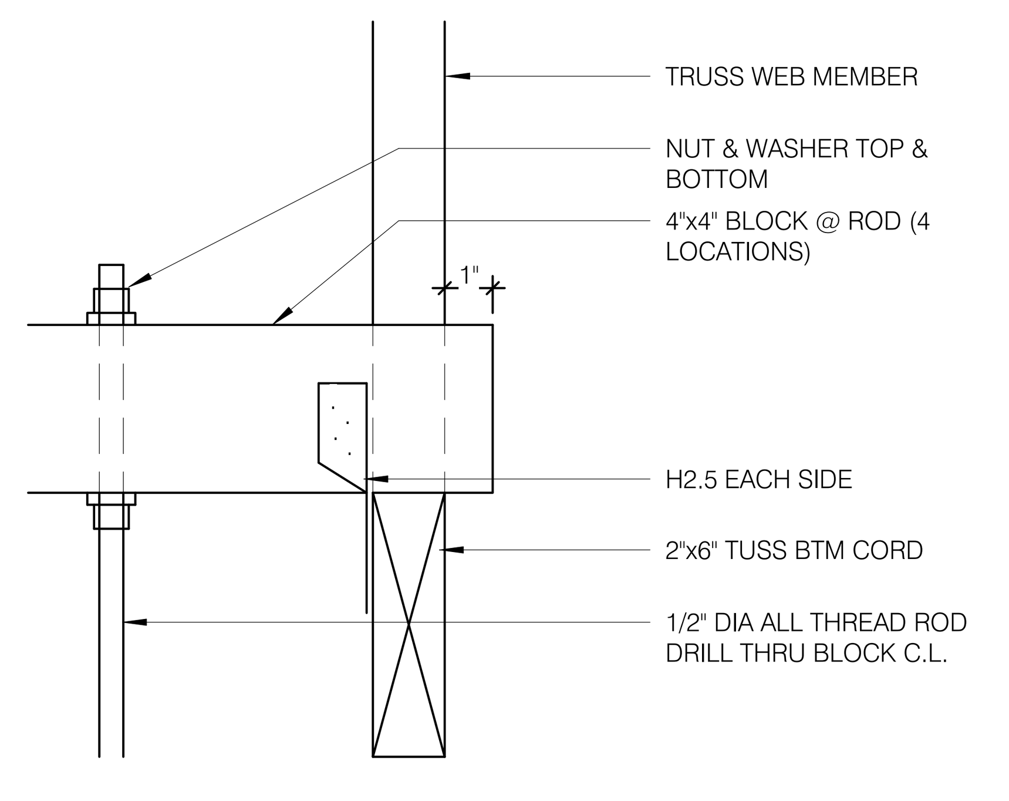


REMOTE HUMIDITY SENSOR NTS 8

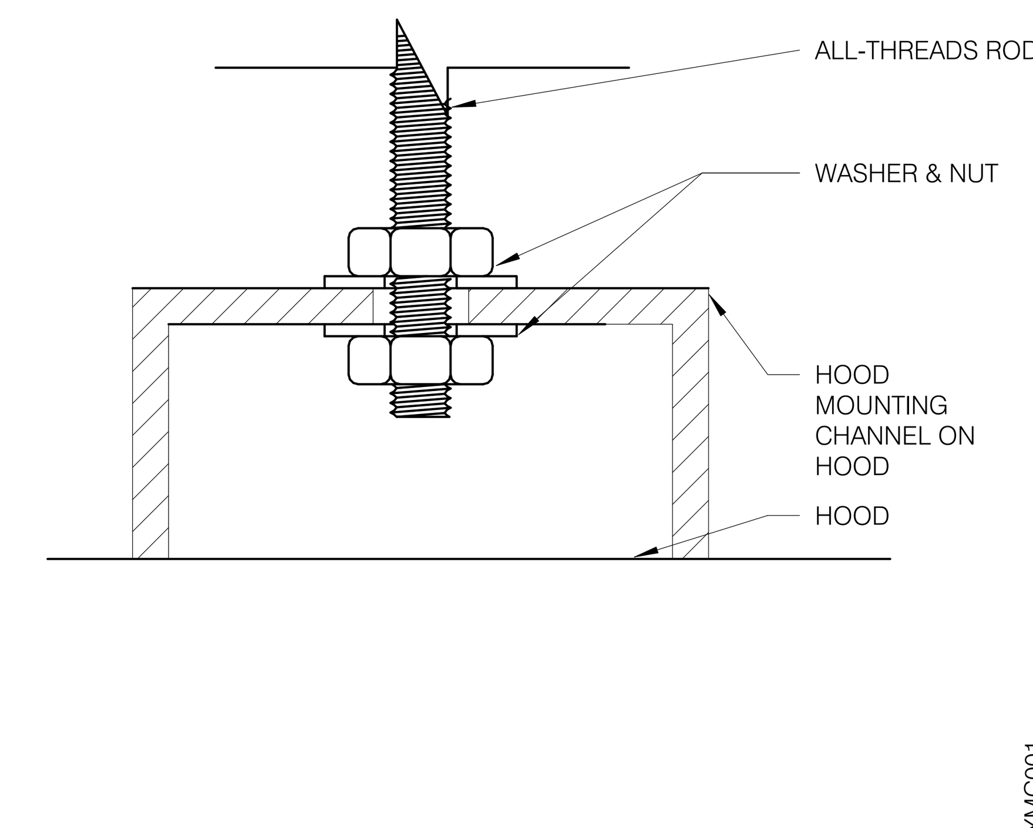
NOT USED NTS 6



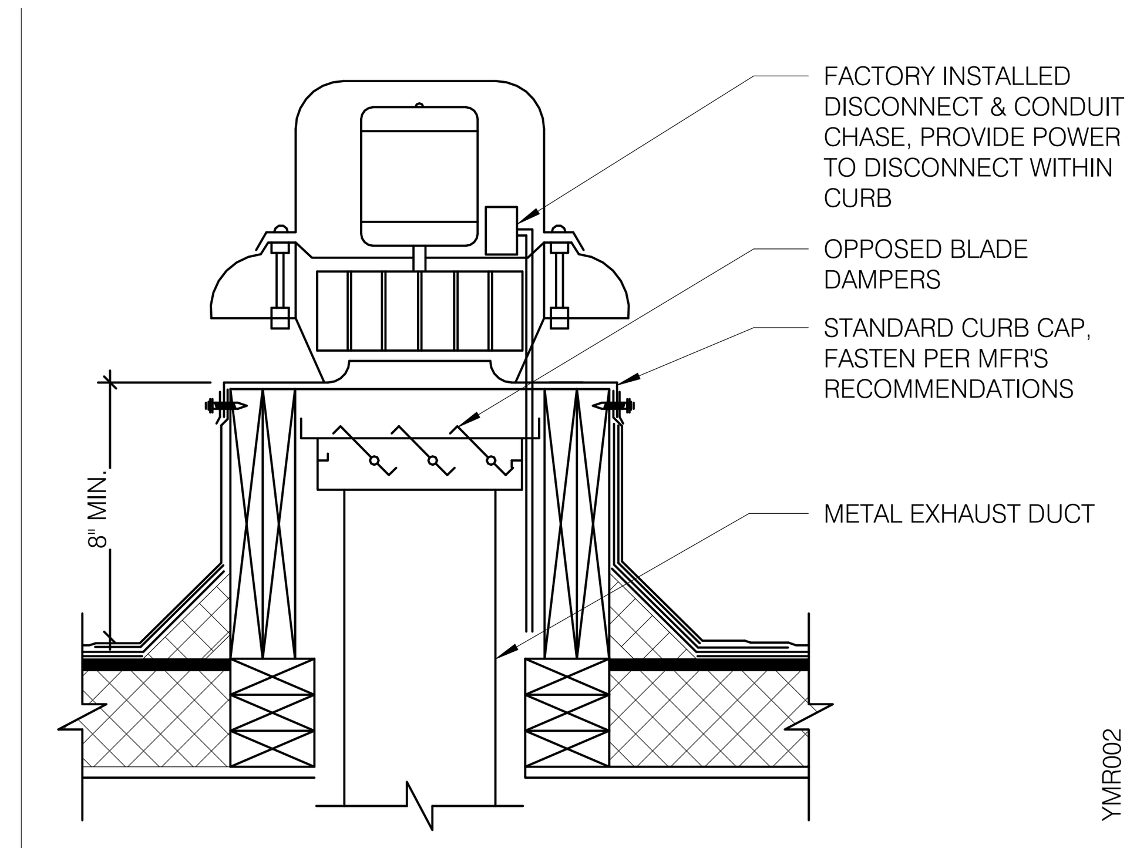
EXHAUST FAN (EF-1) NTS 3



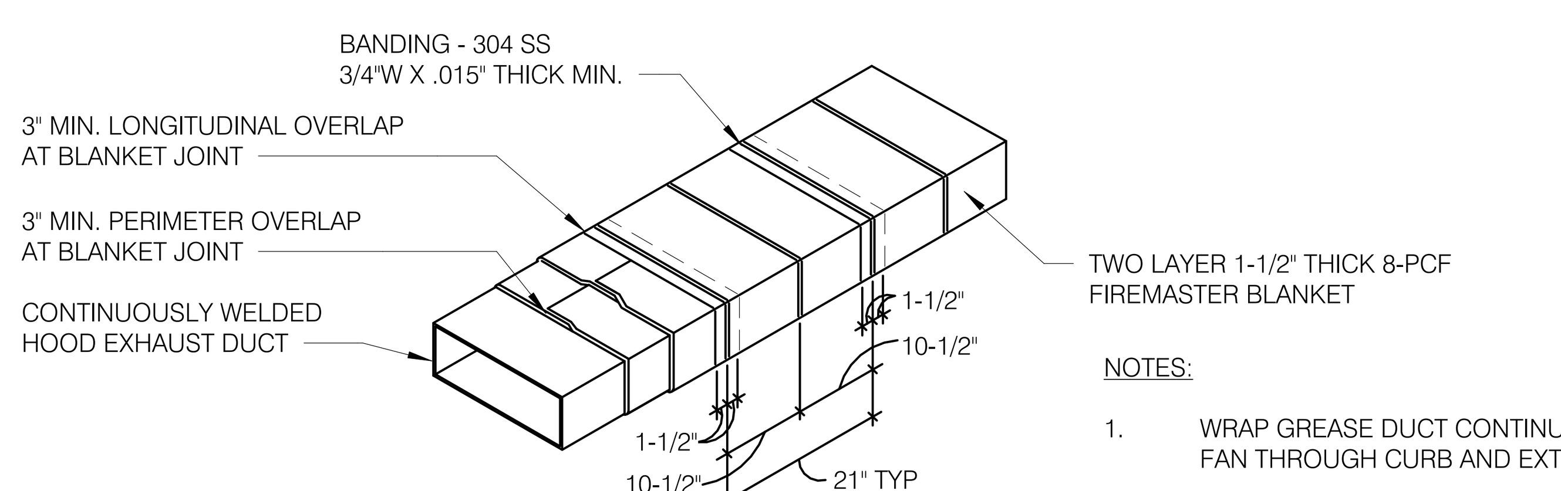
ROD ATTACHMENT NTS 7



BOLT CONNECTION TO HOOD NTS 5



RESTROOM FAN (EF-2) NTS 2

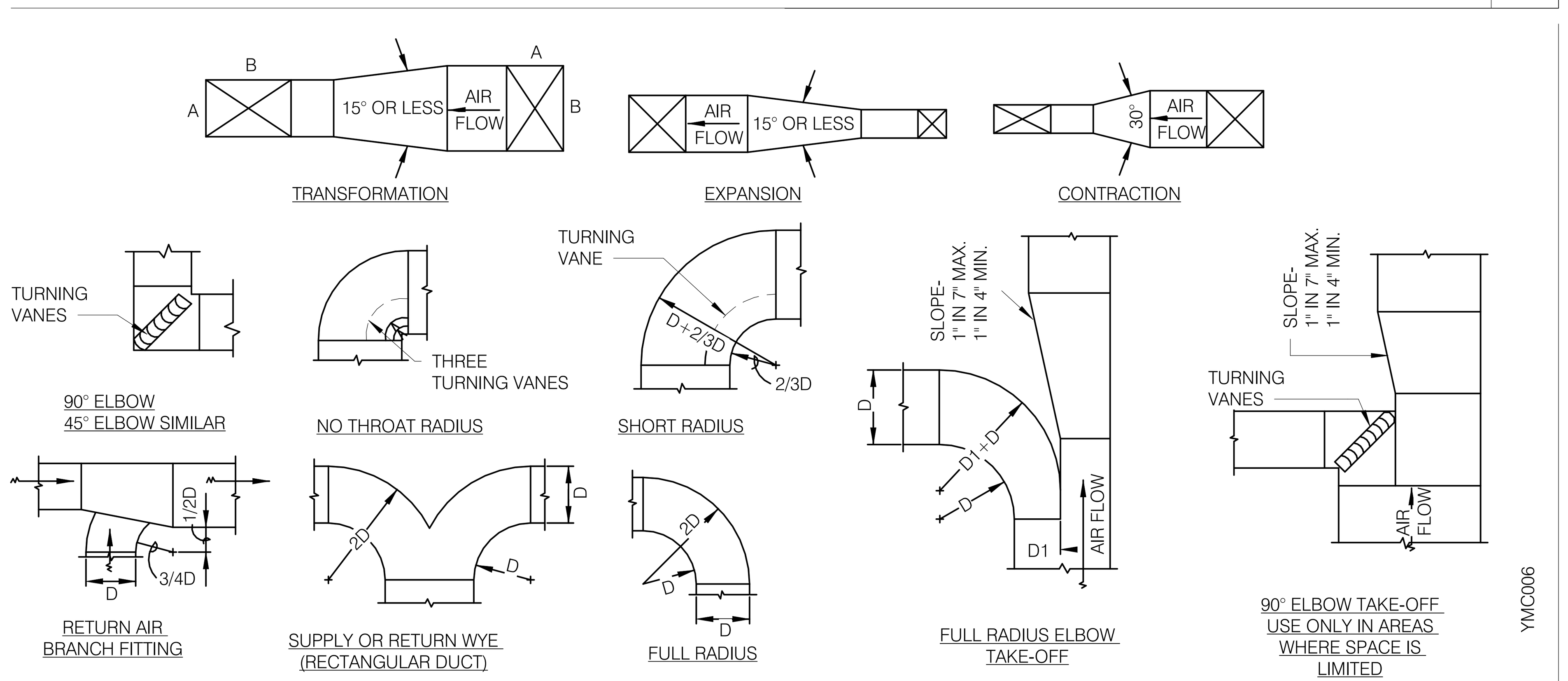


BANDING REQUIREMENTS: USE 304 STAINLESS STEEL BANDS A MAXIMUM 1-1/2" FROM BLANKET EDGE AND SPACED A MAXIMUM OF 10-1/2" ON CENTER.

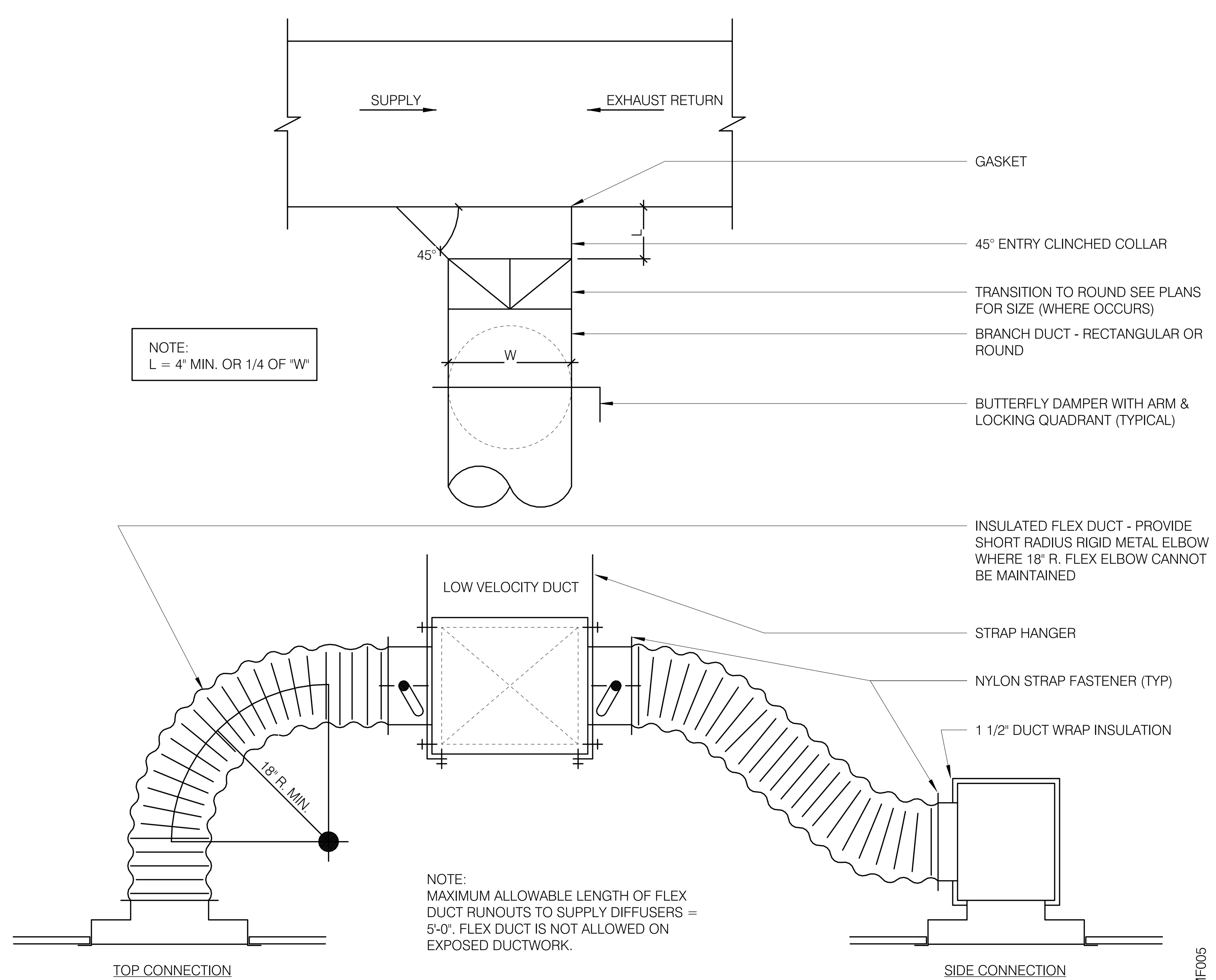
NOTES:

1. WRAP GREASE DUCT CONTINUOUS AS SHOWN FROM CONNECTION AT FAN THROUGH CURB AND EXTEND 18" MIN. BELOW ROOF DECK.
2. FOR HORIZONTAL RUNS OF EXHAUST DUCTS PROVIDE TYPICAL TRAPEZE SUPPORT SYSTEM WITH 1/2" HANGER RODS A MAXIMUM OF 6" FROM INSULATION EDGE. TRAPEZE SUPPORTS SHALL BE SPACED A MAXIMUM OF 60" ON CENTER FROM CENTERLINE OF VERTICAL EXHAUST DUCT.
3. SLOPE HORIZONTAL EXHAUST DUCT RUNS A MINIMUM OF 1/4" PER FOOT (2% SLOPE) TOWARDS EXHAUST HOOD.
4. PROVIDE INSULATED ACCESS DOOR OR PANEL NEAR MID POINT OF EXHAUST DUCT RUN FOR CLEANING AND INSPECTION OF DUCT. PROVIDE AN APPROVED SIGN ON ACCESS DOOR OR PANEL WHICH READS "ACCESS PANEL DO NOT OBSTRUCT."

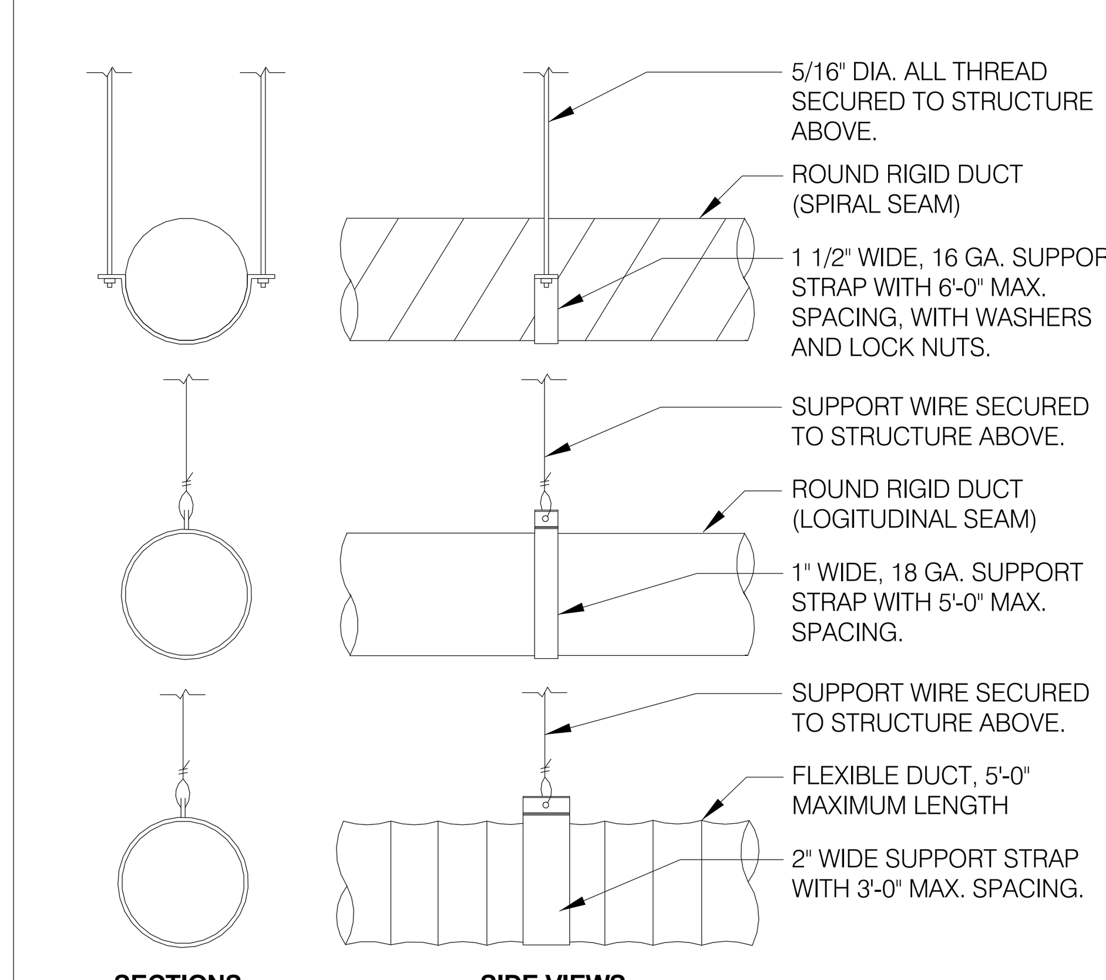
KITCHEN HOOD EXHAUST DUCT SYSTEM DETAIL NTS 10



TYPICAL DUCTWORK DETAILS NTS 9



CEILING DIFFUSER CONNECTIONS NTS 4



DUCT SUPPORT DETAIL NTS 1

GPD Engineering and Architecture Professional Corporation - C3879
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	CK
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
MECHANICAL DETAILS

M4.0

PLOT DATE: 3/31/2022 12:49:20 PM

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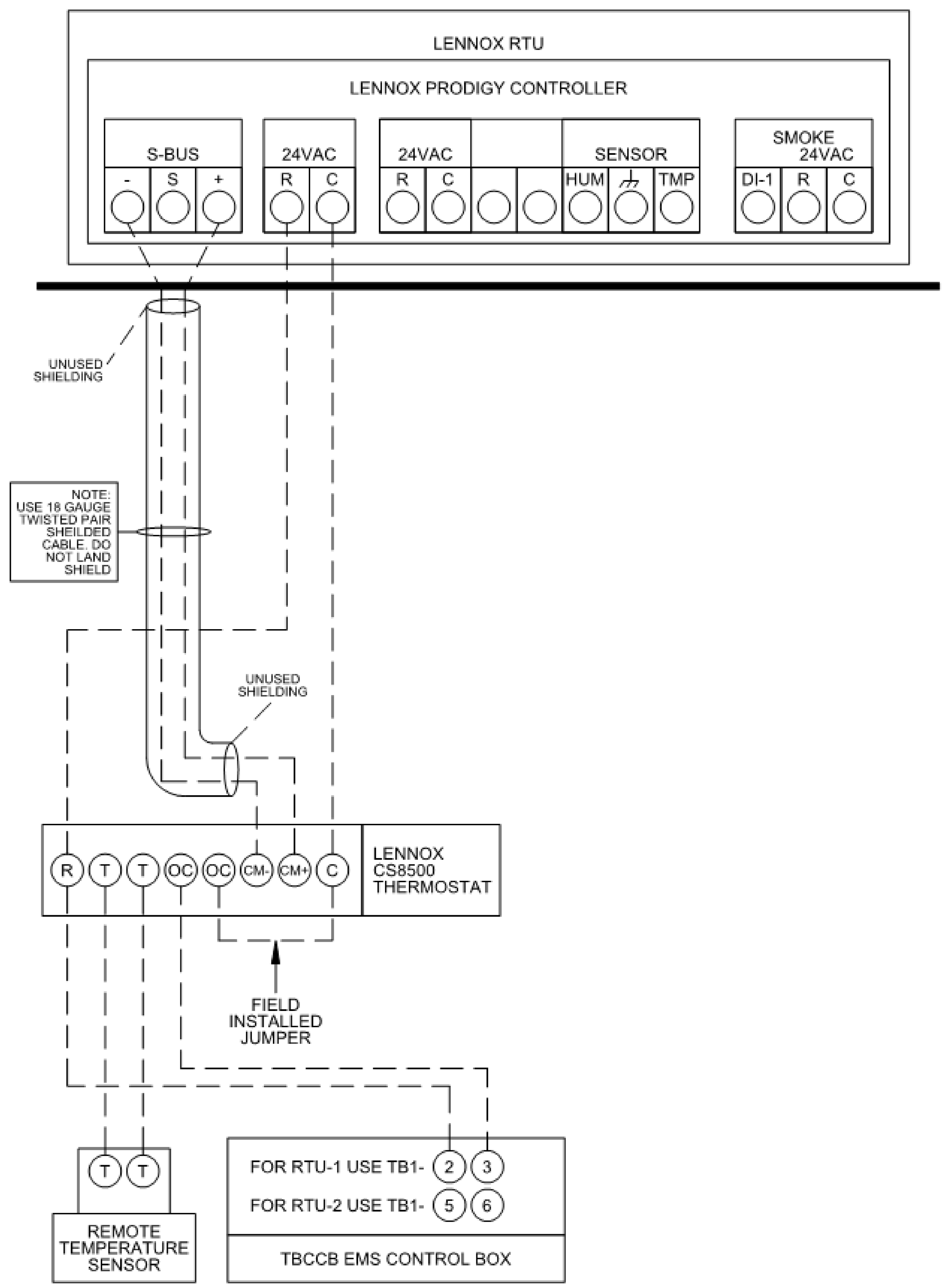
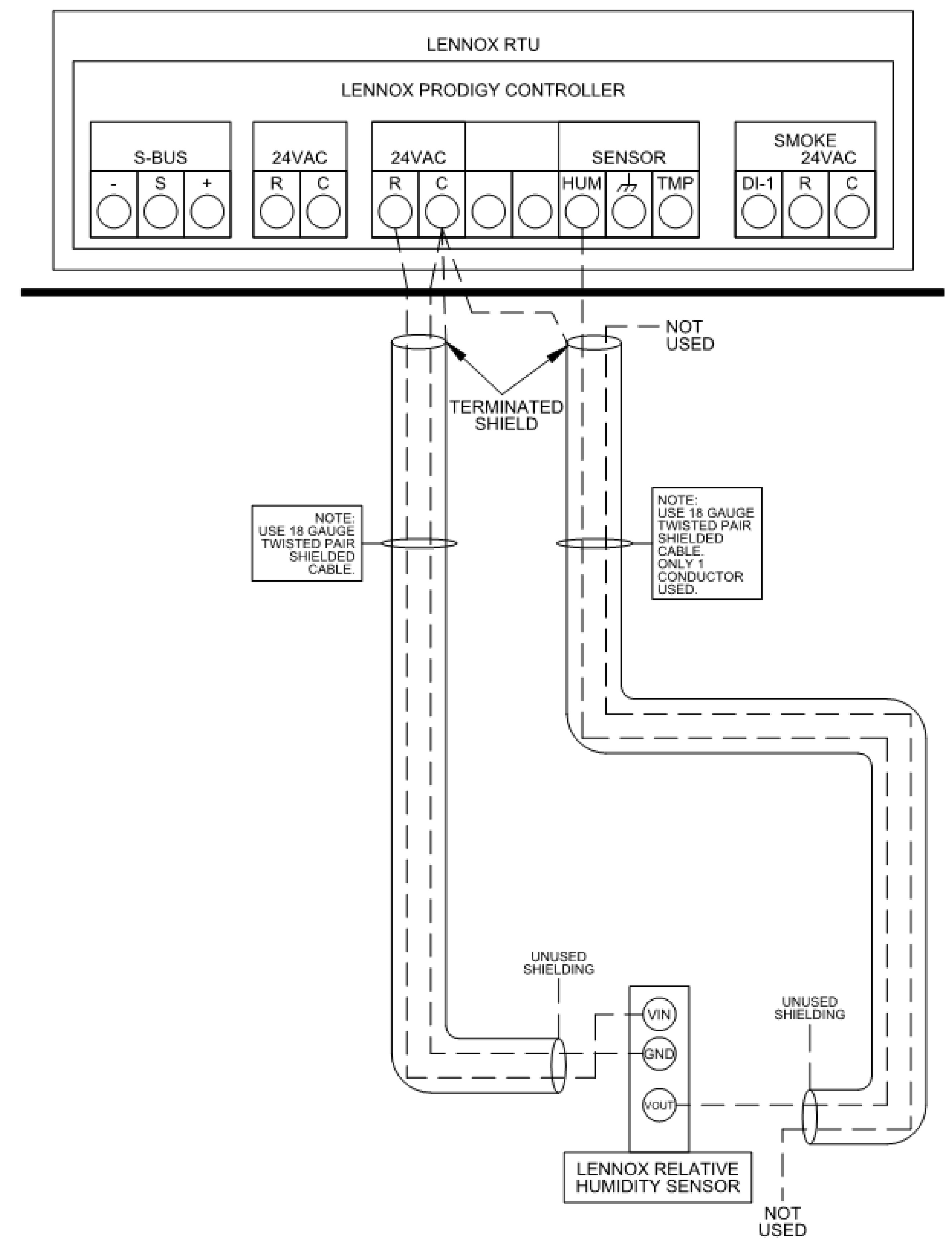
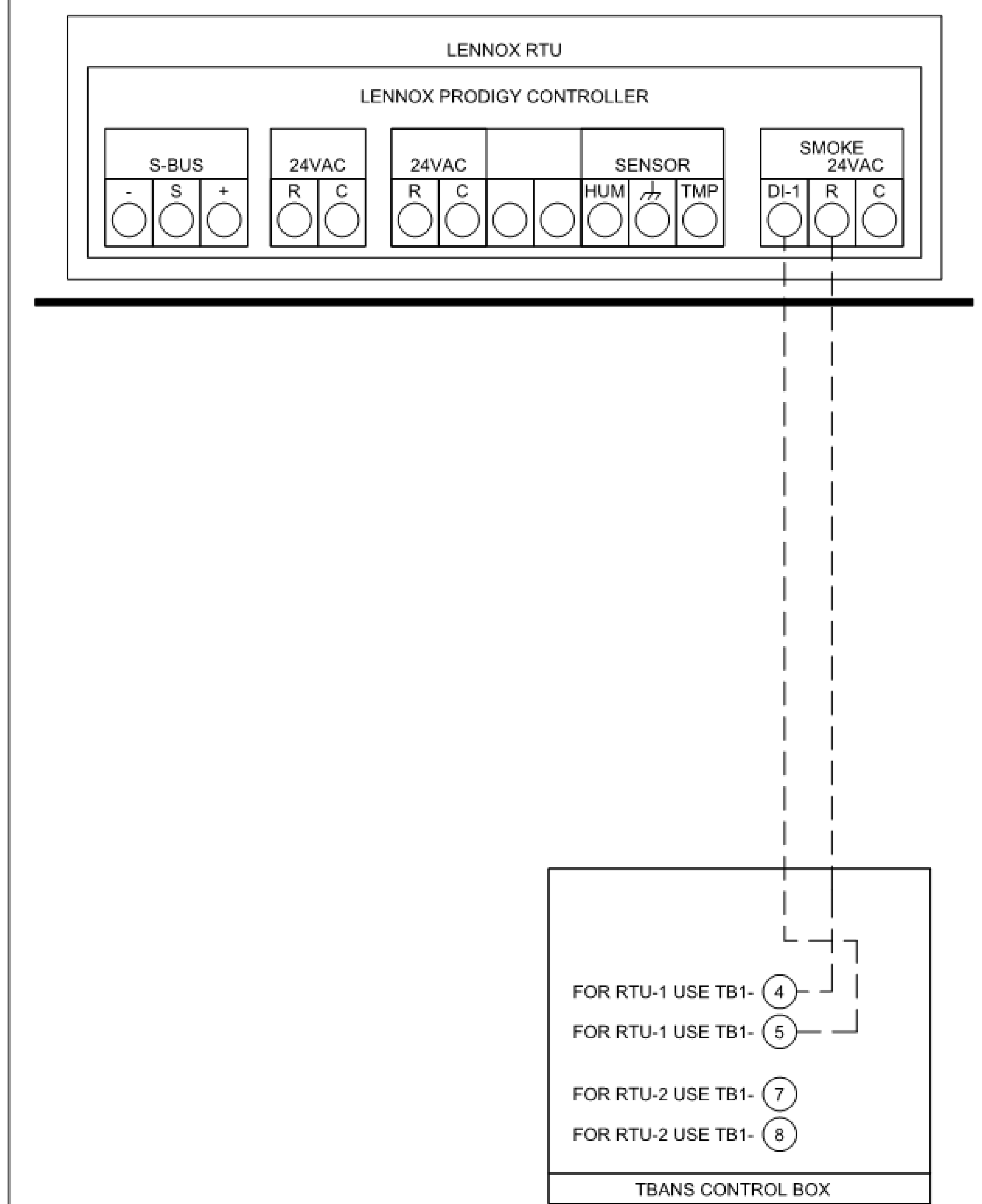


1 LENNOX PRODIGY TO THERMOSTAT AND TO TBCCB CONNECTION NTS



2 LENNOX PRODIGY TO OPTIONAL HUMIDITY SENSOR CONNECTION NTS



3 LENNOX PRODIGY TO TBANS CONNECTION NTS

Air Care Experts

26227 Enterprise Ct.
Lake Forest, CA 92630
949-770-2222

DRAWING TYPE

LENNOX RTU LOW VOLTAGE FIELD CONNECTIONS DETAIL

Model#

LENNOX LOW VOLTAGE CONNECTIONS

Revisions: Rev | Date | Change

Job #: T7647
Designed By: JL
Drawing By: EM
Approved By:
Date: 08-07-20
Sheet: 1 OF 1

DATE	REMARKS
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CONTRACT DATE:	12.08.21
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DRAWN BY.:	CK
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 1.0
CONTROLS DETAILS

M5.0

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1. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

2. ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.

3. VERIFY LOCATION OF SANITARY SEWER ON SITE PLAN AND REVISE SEWER SYSTEM AS REQUIRED.

1 4. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS, AS REQUIRED BY CODE. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.

5. CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

6. VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS AND OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.

7. PLUMBING FIXTURE VENTS SHALL TERMINATE MINIMUM OF 12 INCHES FROM VERTICAL SURFACES AND 10 FEET FROM OUTSIDE AIR INTAKES.

8. PROVIDE GAS PIPING TO UNITS AND MAKE FINAL CONNECTIONS REQUIRED FOR OPERATION.

9. PROVIDE SHUT-OFF VALVES ON HOT & COLD WATER LINES TO FIXTURES AND APPLIANCES. ALL EXPOSED WATER AND WASTE LINES SHALL BE CHROME PLATED.

10. PROVIDE LEVER HANDLE GAS SHUT-OFF VALVE IN BRACH PIPING OF EACH APPLIANCE. INSTALL OWNER FURNISHED QUICK DISCONNECT, FLEXIBLE PIPE (IF ALLOWED BY CODE) AND RESTRAINING DEVICE. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLICANCE IF GAS PRESSURE IS GREATER THAN 10" WC DOWSTREAM OF THE GAS METER.

11. VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED.

12. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN REQUIREMENTS. MAKE ALL ROUGH-IN AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT UNLESS OTHERWISE NOTED.

13. REFER TO MECHANICAL DRAWINGS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.

14. GAS LINES SHALL BE SUPPORTED.

15. FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH WITH FLOOR SURFACE.

16. PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.

17. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR SHALL BE MINIMUM 2 TIMES DIAMETER OF INDIRECT DRAIN.

18. VERIFY DEPTH, SIZE, LOCATION, AND CONDITION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK ON PROJECT. NOTIFY OWNER IMMEDIATELY OF CONDITIONS THAT EXIST WHICH WOULD CAUSE THE DESIGN TO BE ALTERED..

19. COORDINATE INSTALLATION OF PLUMBING WORK WITH OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES.REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.

20. PROVIDE BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.

21. PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN. PROVIDE GAS PIPING TO UNITS. MAKE FINAL CONNECTIONS REQUIRED FOR OPERATION.

22. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH OWNER PRIOR TO CONSTRUCTION. FAILURE OF CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE RESPONSIBILITY FOR SUBSEQUENT RELOCATION DIRECTLY UPON CONTRACTOR.

23. ALL WATER LINES SHALL BE RUN OVERHEAD UNLESS OTHERWISE NOTED.

24. ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING FIXTURES OR EQUIPMENT.

25. PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.

26. CPVC SCHEDULE 40 WASTE PIPE CAN BE SUBSTITUTED FOR BLACK IRON WASTE PIPE WHERE ALLOWED BY LOCAL MUNICIPALITIES.

GENERAL NOTES - PLUMBING NTS 4

SYMBOLS	ABBREV.	DESCRIPTION
	Y.B.	YARD BOX
	R.D.	ROOF DRAIN
	A.P.	ACCESS PANEL
	V.T.R.	VENT THRU ROOF
	V.B.F.	VENT BELOW FLOOR
	U.T.R.	UP THRU ROOF
	V.C.P.	VITRIFIED CLAY PIPE
	C.I.	CAST IRON
	(TYP.)	TYPICAL
	(N)	NEW
	(E)	EXISTING
	F.D.	FLOOR DRAIN
	H.D.	HUB DRAIN
	O.F.D.	OVERFLOW DRAIN
	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
X 00		PLUMBING EQUIPMENT DESIGNATION
XXX		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DESCRIPTION.
SS	SS	SOIL OR WASTE (SANITARY)/WASTE STUB
GW	GW	SOIL OR WASTE (GREASE WASTE)/WASTE STUB
G	G	GAS / GAS STUB
CW	CW	COLD WATER/ CW STUB
HW	HW	HOT WATER / HW STUB
HWR	HWR	HOT WATER RETURN
	V	SANITARY VENT
SD	S.D.	STORM DRAIN
CD	C.D.	CONDENSATE DRAIN
	F.C.O.	FLOOR CLEANOUT
	W.C.O.	WALL CLEANOUT
FW	FW	FILTERED WATER
TW	TW	PREMIXED TEMPERATURE WATER
	H.B.	HOSE BIBB
	S.O.V.	SHUT-OFF GATE VALVE
	S.O.C.	SHUT-OFF GAS COCK
	C.V.	CHECK VALVE
	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
	B.V.	BALL VALVE
	C.W.	COLD WATER BELOW GRADE
	E.C.O.	EXTERIOR CLEAN OUT
	BFP	BACK FLOW PREVENTER
	FU	FIXTURE UNIT

PLUMBING LEGEND NTS 3

FIXTURE	NO.	DRAIN		COLD WATER		HOT WATER	
		D.F.U.	TOTAL D.F.U.	F.U. C.W.	TOTAL C.W.	F.U. H.W.	TOTAL H.W.
WATER CLOSET	2	4	8	5	10	--	--
URINAL	0	5	--	5	--	--	--
LAVATORY	2	1	2	1.5	3	1.5	3
HAND SINK	2	2	4	1.5	3.0	1.5	3.0
PREP SINK *	1	--	--	2	2	2	2
3 - COMPARTMENT SINK *	1	--	--	3	3	3	3
HOSE BIBB/WATER FILTRATION UNIT	2/1	--	--	5/0.5	12	--	--
FLOOR DRAIN	7	2	14	--	--	--	--
HUB DRAIN	2	2	4	--	--	--	--
FLOOR SINK	4	3	12	--	--	--	--
MOP SINK	1	3	3	2.25	2.25	2.25	2.25
RETHERMALIZER *	1	--	--	--	--	1.0	1.0
TOTAL	--	--	47	--	35.25	--	14.25

PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS:
COLD WATER: 35.25 FU = 25.4 GPM — USE 1-1/2" CW SERVICE
DRAIN: GW 22 DFU — USE 4" SANITARY (MIN)
DRAIN: SAN 25 DFU — USE 4" SANITARY (MIN)
HOT WATER: 14.25 FU = 17.875 GPM — USE 1-1/4" HW SERVICE

BASED ON 2015 IPC (COMBINATION DRAIN & VENT). *FIXTURE HAS INDIRECT WASTE TO FLOOR SINK

GREASE INTERCEPTOR SIZING CALCULATION
(11 GPM) x (30 MIN RETENTION TIME) = 330 GALLONS

NOTES:
1. PROPOSED GREASE INTERCEPTOR SIZE = 1,000 GALLONS.
2. CALCULATION DERIVED FROM SECTION 1003.3.6 IN THE 2015 MICHIGAN PLUMBING CODE.
3. PER SECTION 709.3, ONE GPM IS EQUIVALENT TO TWO FIXTURE UNITS.

PLUMBING FIXTURE COUNT NTS 2

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMP'D WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
ECO 1	EXTERIOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
FS 1	FLOOR SINK	4"	2"	--	--	--	6	--	PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLUSH WITH FLOOR TILE.	JOSAM / MODEL: JPFS4-PVC ZURN / MODEL: FD-2370-PV4-DS-F
FS 2	FLOOR SINK	3"	2"	--	--	--	6	--	CAST IRON 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP.	JOSAM / MODEL: 49034AS WADE / MODEL: 9144 ZURN / MODEL: Z-1900-32
FD 1	FLOOR DRAIN	3"	2"	--	--	--	2	--	PVC FLOOR DRAIN, 5" DIA. IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 PVC DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN.	ZURN / MODEL: FD-2210 JOSAM / MODEL: 30003-A WADE / MODEL:1103
HD 1	HUB DRAIN	3"	2"	--	--	--	2	--	CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED CLEANOUT PLUG.	JOSAM / MODEL: 88213 WADE / MODEL: 2453EF ZURN / MODEL: Z-1019
FCO 1	FLOOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
WCO 1	WALL CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	JOSAM / MODEL: 58510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446-BP
HB 1	HOSE BIBB	--	--	3/4"	--	--	--	2.5/1	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND NICKEL BRONZE BOX.	JOSAM / MODEL: 71000 WADE / MODEL: 8600L ZURN / MODEL: Z-1300
GREEN WC 1	WATER CLOSET	4"	2"	1/2"	--	--	4	2	WHITE VITREOUS CHINA FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.1 GPF, WITH OPEN FRONT SEAT LESS COVER, OLSONITE #95 OR EQUIVALENT. FLUSHOMETER TANK: SLOAN FLLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS.	AM. STD. "CADET" / MODEL: 2467.100 KOHLER "HIGHLINE" / MODEL: K-3519 CRANE "ECONMISER" / MODEL: 31888
GREEN L 1	LAVATORY	1-1/4"	1-1/2"	1/2"	--	1/2"	1	1.5	WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT, 4" CENTERS, WITH INTEGRAL BACKSPLASH, ADA ACCESSIBLE. FLAT GRID STRAINER. BRAIDED WATER LINES. FAUCET: FURNISHED BY OWNER-INSTALLED BY G.C. ELECTRONIC SENSOR TYPE FAUCET. SLOAN SF-2300, ADA COMPLIANT. SEE 5/P6.0 FOR LAV SUPPORT DETAIL, 0.5 GPM AERATOR	A.S. COMRADE/ MODEL: 0124.131 CRANE "HARWICH" / MODEL: 1412V
GREEN S 1	HAND SINK	1-1/2"	1-1/2"	1/2"	--	1/2"	2	1.5	S-1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS. FAUCET W/SINGLE KNEE PEDAL. BRAIDED WATER LINES, 0.5 GPM AERATOR.	--
S 2	MOP SINK	3"	2"	1/2"	1/2"	--	3	2.25	MOP SINK: AERO - 3MP-2121-6 W/ 48" HIGH S.S. LEFT SIDE AND BACK-SPLASH. FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. FAUCET: T&S #B2465, WITH VACUUM BREAKER, FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.	--
S 3	3-COMP. SINK	INDIRECT	--	1/2"	1/2"	--	--	3	SINK, FAUCET & DRAIN, GEN IV POWER SOAK STANDARD, GEN III IS AN OPTION FOR FRANCHISES	--
S 4	PREP SINK	INDIRECT	--	1/2"	1/2"	--	--	3	SINK, FAUCET AND DRAIN	--
GI 1	GREASE INTERCEPTOR	4"	--	--	--	--	--	--	PRECAST 1,000 GALLON GREASE INTERCEPTOR WITH SAMPLING BOX. SEE SITE PLAN FOR EXTERIOR GREASE INTERCEPTOR LOCATION.	JENSEN / JP1000G
MV 1	MIXING VALVE	--	--	1/2"	1/2"	--	--	--	THERMOSTATIC, 125 P516, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.	POWERS SERIES LFLM495 LAWLER SERIES 310 LEONARD SERIES 170
WH 1	WATER HEATER	--	--	1-1/4"	1-1/4"	--	--	--	GAS FIRED WATER HEATER, 95% THERMAL EFF., 120,000 BTUH INPUT, 60 GAL. STORAGE TANK, 138 GPH @ 100 DEG. RISE REC. RATE, 3" PVC FLUE & INTAKE, ASME RATED TEMPERATURE AND PRESSURE RELIEF. VALVE, ELECTRONIC IGNITION SYSTEM AND ELECTRONIC CONTROLS. Call 800-477-1953 Option #1 for National Account Price & Service	AO SMITH / CYCLONE MXI BTH-120 STATE / SUF 100 120 NE --
ET 1	EXPANSION TANK	--	--	3/4"	--	--	--	--	EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON CAPACITY.	WATTS SERIES DETA AMTROL SERIES ST WILKINS SERIES WXTP
BFP 1	BACKFLOW PREVENTOR	--	--	VERIFY	--	--	--	1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION WITH QUARTER TURN FULL-PORT BALL VALVES AND BRONZE STRAINER.	WATTS / MODEL: LF009M2QTS WILKINS / MODEL: 975XLS FEBCO / MODEL: 860
RO 1	REVERSE OSMOSIS	INDIRECT	--	1/2"	--	--	--	--	REVERSE OSMOSIS FILTER SYSTEM BY OWNER. SEE DETAIL 9/P6.0	--
RP 1	RECIRC PUMP	--	--	--	1/2"	--	--	--	0.5 GPM @5 FEET HEAD. PROVIDE WITH CHECK VALVE, BALANCE VALVE, AND AQUASTAT.	TACO 009

PLUMBING FIXTURE SCHEDULE NTS 1

GPD Engineering and Architecture
Professional Corporation - C3879

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
PLUMBING SCHEDULES AND NOTES

P1.0

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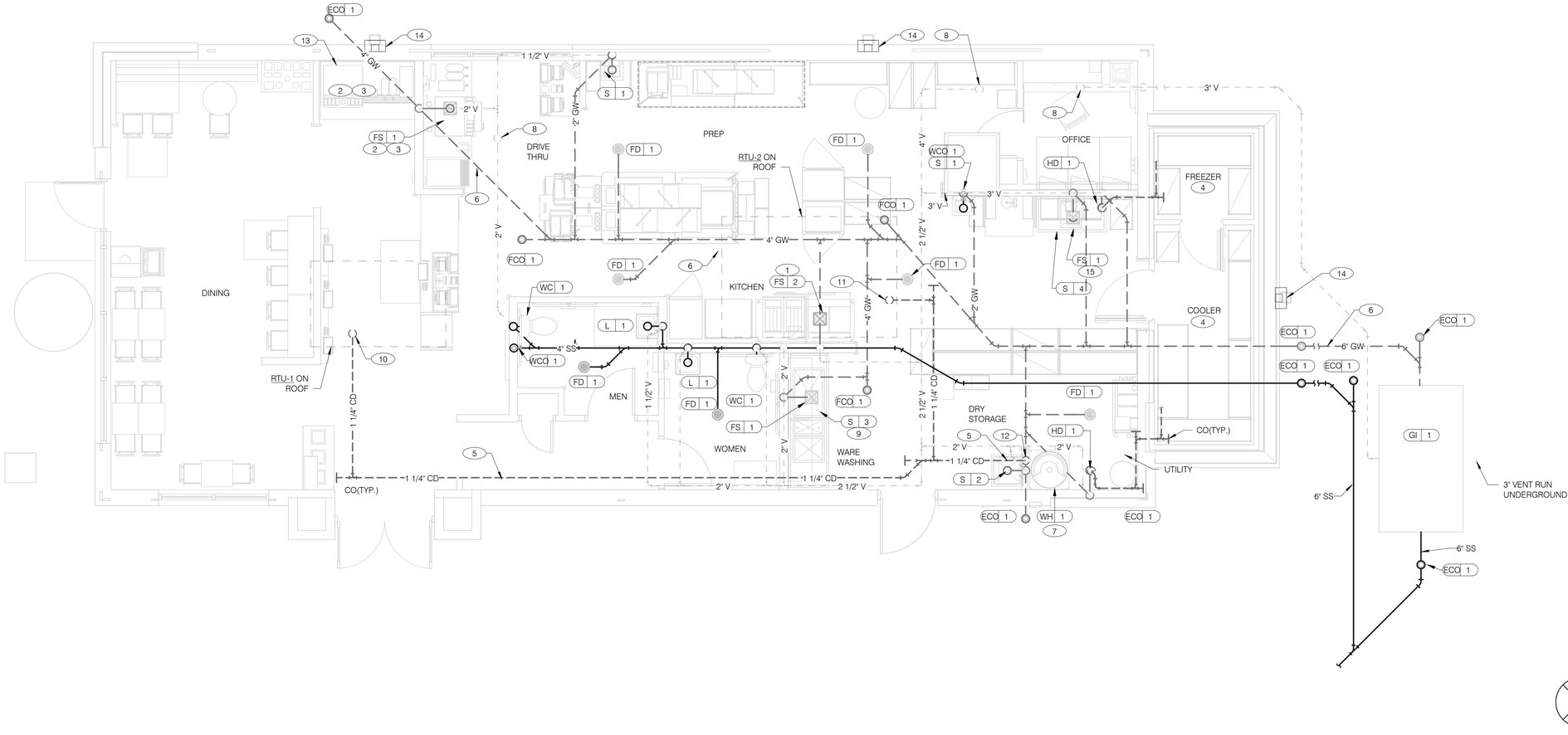
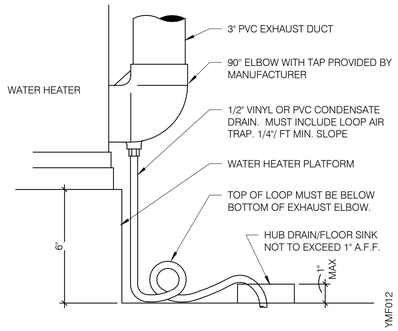


WASTE & VENT PIPING PLAN 1/4" = 1'-0" 1



WATER HEATER CONDENSATE DETAIL NTS 4

A. NO ROOF PENETRATIONS PERMITTED WITHIN ROOF WATER PLY. REFER TO ROOF PLAN FOR LOCATIONS.

B. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR ALL WASTE AND VENT SIZES.

C. SEE ARCHITECTURAL PLANS FOR ROOF DRAINAGE CALCULATIONS AND DOWNSPOUT AND SCUPPER LOCATIONS AND SIZING.

D. VERIFY WITH THE LOCAL BUILDING AUTHORITY THAT CONDENSATE DRAINAGE CAN BE ROUTED TO THE MOP SINK.

WASTE & VENT PLAN NOTES NTS 3

1. UNDERGROUND SANITARY PIPE SHALL BE NO HUB CAST IRON PIPE FOR THE FIRST 10 FEET FROM CONNECTION TO FLOOR SINK FS-2, OUTWARD.
2. PROVIDE DEDICATED CONDENSATE LINE AND DRAIN LINE FROM ICE MACHINE TO THE FS UNDERNEATH THE DRIVE THRU SODA MACHINE. PROVIDE AIR GAP PER LOCAL CODE.
3. PROVIDE DEDICATED WASTE LINES FROM BEVERAGE UNIT TO THE FS UNDERNEATH THE DRIVE THRU SODA MACHINE. PROVIDE AIR GAP PER LOCAL CODE.
4. PROVIDE 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO OUTFALL AT HUB DRAIN/MOP SINK (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE). CONCEAL CONDENSATE PIPE IN WALL.
5. PVC OR COPPER CONDENSATE DRAIN FROM HVAC UNITS ON ROOF. RUN TO MOP SINK. PIPING SHALL SLOPE 1/4" PER FOOT AND SHALL BE INSULATED WITH 1" CLOSED CELLULAR INSULATION. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR PIPE SIZES.
6. ENTIRE RUN OF DRAIN LINES TO INLET OF EXTERIOR GREASE INTERCEPTOR AND OUTBOUND FROM INTERCEPTOR TO CONNECTION AT SANITARY MAIN SHALL BE SCHEDULE 40 PVC DWV OR AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
7. ROUTE INDIRECT WASTE FROM WH-1 TO HD-1. REFERENCE DETAIL 2/P6.1 AND DETAIL 4/P2.0.
8. 4" VENT UP THROUGH ROOF.
9. PIPE 3-COMPARTMENT SINK TO FLOOR SINK WITH AIR GAP PER CODE.
10. 1-1/4" CONDENSATE DRAIN DOWN FROM RTU-1. SEE DETAIL 10/P6.0.
11. 1-1/4" CONDENSATE DRAIN DOWN FROM RTU-2. SEE DETAIL 10/P6.0.
12. CONDENSATE DRAIN PIPE DOWN TO MOP SINK. PROVIDE AIR GAP AS REQUIRED BY CODE. IF REQUIRED RUN CONDENSATE PIPING TO EXTERIOR DRYWELL, RETENTION AREA OR STORM SEWER AS DIRECTED BY AUTHORITY HAVING JURISDICTION.
13. RUN DRAIN LINE FROM S/S DRINK MACHINE THROUGH WALL OPENING. TO OUTFALL AT FS BENEATH D/T DRINK MACHINE.
14. DOWN SPOUT. SEE CIVIL PLANS FOR CONTINUATION.
15. ROUTE DRAIN FOR REVERSE OSMOSIS DISCHARGE TO FLOOR SINK. ENSURE PROPER AIR GAP.

KEYNOTES - WASTE AND VENT NTS 2

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PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	CK
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
WASTE AND VENT PLAN

P2.0

PLOT DATE: 3/31/2022 12:49:25 PM

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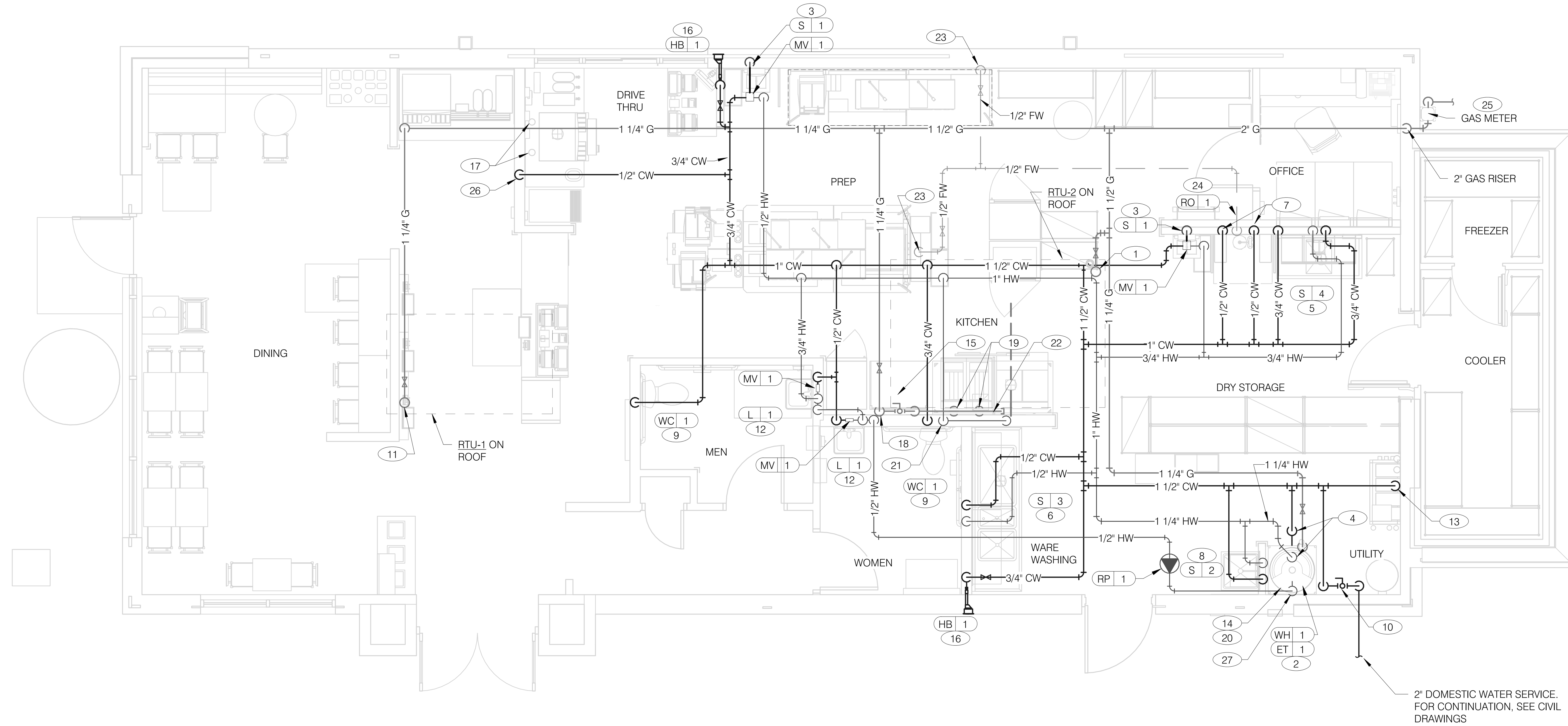

WATER & GAS PLAN
1/4" = 1'-0" 1

A.	NO ROOF PENETRATIONS PERMITTED WITHIN ROOF "WATER VALLEYS". REFER TO ROOF PLAN FOR LOCATIONS.
B.	REFER TO SHEET P4.0 FOR ROUGH-IN LOCATIONS.
C.	REFER TO SHEET P5.0 FOR WATER AND GAS ISOMETRIC DRAWINGS.
D.	FLUSH ALL WATER SUPPLY LINES OF ALL DEBRIS AND IMPURITIES PRIOR TO CONNECTING TO WATER FILTERS.
E.	PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER TO SERVE CARBONATOR. DRAIN RELIEF TO FLOOR SINK WITH AIR GAP

WATER & GAS PLAN NOTES
NTS 3

1	1-1/4" (180 CFH) GAS UP TO RTU-2 WITH DIRT LEG, GAS COCK AND UNION.
2	1-1/4" (120 CFH) GAS DOWN TO WATER HEATER WITH GAS COCK, DIRT LEG AND UNION.
3	1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK.
4	1-1/4" HOT AND 1-1/4" COLD WATER LINES DOWN TO WATER HEATER.
5	1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
6	1/2" COLD AND HOT WATER LINES DOWN IN WALL TO THREE COMP. SINK.
7	1/2" COLD WATER 2-0" A.F.F. . CONNECT TO WATER FILTER FOR HOT WATER SYSTEM P-452. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO WATER FILTER.
8	1/2" COLD AND HOT WATER DOWN IN WALL TO MOP SINK.
9	3/4" CW DOWN IN WALL TO FLUSH TANK WATER CLOSET .
10	PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER AND WATER METER LOCATED OUTSIDE. PROVIDE SHUT-OFF VALVE AT WATER SERVICE ENTRANCE. REFER TO CIVIL PLANS FOR CONTINUATION AND FURTHER INFORMATION.
11	1-1/4" (180 CFH) GAS UP TO RTU-1 WITH DIRT LEG, GAS COCK AND UNION.
12	1/2" TEMPERED WATER LINES DOWN IN WALL TO LAVATORY.
13	3/4" CW DOWN ALONG WALL TO WATER FILTER S-540.
14	WATER HEATER (WH-1). PIPE CONDENSATE LINE. T&P DISCHARGE AND DRAIN PAN TO HUB DRAIN. SEE WATER HEATER DETAIL 2/P6.1.
15	EMERGENCY GAS SHUT OFF VALVE LOCATED BELOW CEILING.
16	3/4" CW DOWN IN WALL TO EXTERIOR HOSE BIBB.
17	BUNDLED SYRUP LINES TO BEVERAGE DISPENSERS S-284 & S-285 AND FILTERED WATER LINES TO ICE MAKERS S-513 AND FROZEN BEVERAGE DISPENSER S-546. SEE DRAWINGS A2.0 AND P5.0.
18	1-1/4" GAS DOWN ALONG WALL TO COOKING EQUIPMENT. VERTICAL GAS PIPING IN WALL SHALL NOT BE RIGIDLY SECURED AND ADEQUATE PIPE PROTECTION SHALL BE PROVIDED.
19	3/4" GAS DIRT LEG W/ GAS COCK TO COOKING EQUIPMENT. PROVIDE FLEXIBLE GAS HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT.
20	3" PVC EXHAUST AND INTAKE FLUES FROM WATER HEATER. PIPE THROUGH ROOF AS RECOMMENDED BY MANUFACTURER TO LOCATIONS SHOWN ON SHEET M2.0. SEE DETAIL 1/P6.1.
21	1/2" HOT WATER DOWN IN WALL TO RETHERMALIZER C-107. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
22	RUN GAS PIPE 18" A.F.F. WITH DIRT LEGS FOR GAS HOSE KITS TO COOKING EQUIPMENT C-026 AND C-107.
23	1/2" RO WATER PIPE DOWN IN WALL AND ROUTED IN LOW WALL OF DRY PRODUCTION LINE. PROVIDE SHUT-OFF VALVE ON RO PIPING IN CEILING NEAR CHASE.
24	1/2" COLD WATER TO REVERSE OSMOSIS FILTER P-315 AND 1/2" FILTER WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF VALVE ON CW PIPE PRIOR TOCONNECTION TO FILTER. SEE DETAIL 9/P6.0.
25	GAS METER, REGULATOR VALVES, BRACKETS, ETC. AS REQUIRED BY LOCAL GAS COMPANY. SEE CIVIL DRAWINGS FOR CONTINUATION.
26	1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO WATER FILTER.
27	1/2" HOT WATER RETURN DOWN TO WATER HEATER HOT WATER RETURN INLET.

KEYNOTES - WATER AND GAS
NTS 2

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

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ENDEAVOR 2.0
WATER AND GAS PLAN

P3.0

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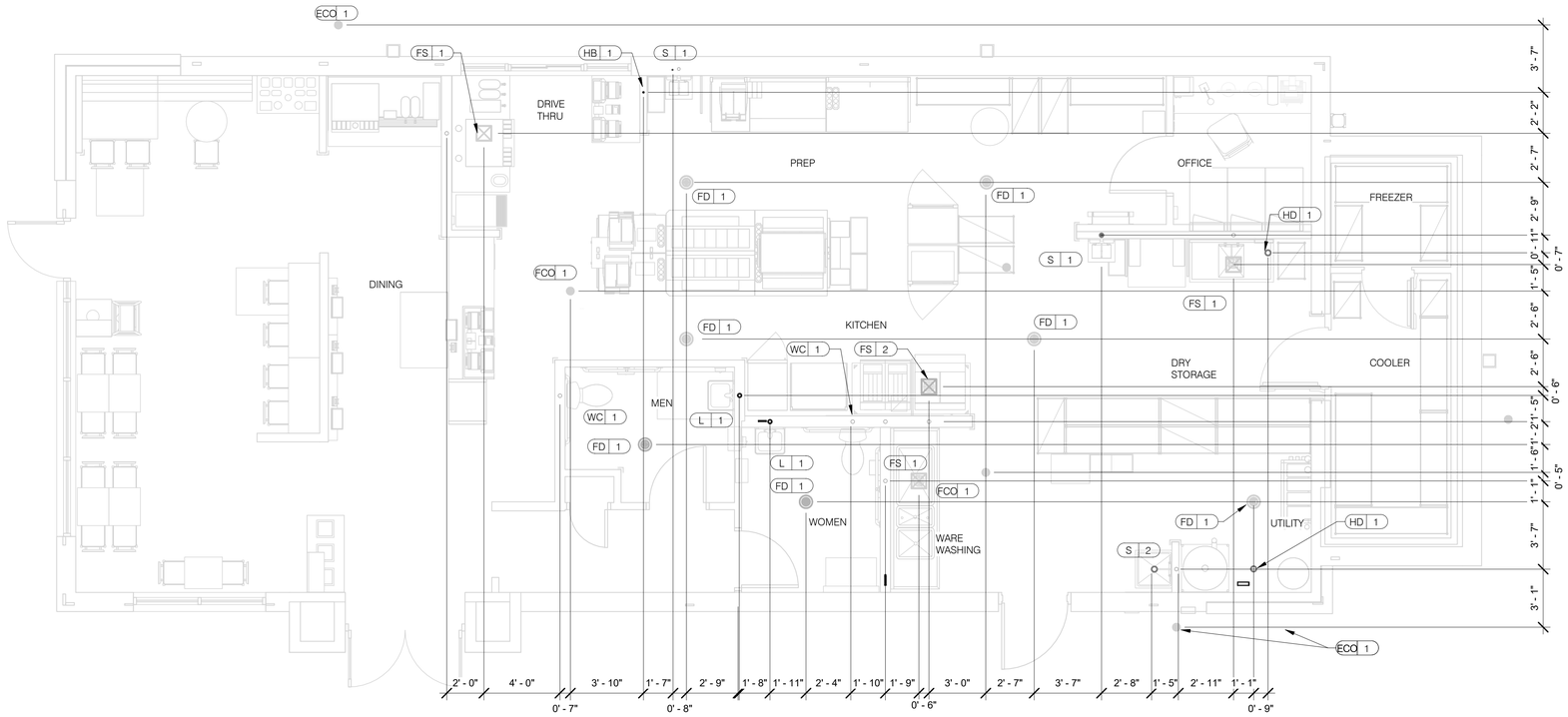

PLUMBING ROUGH-IN PLAN 1/4" = 1'-0" 1

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
FS 1	FLOOR SINK			--
FS 2	FLOOR SINK			EPOXY COATED CAST IRON
HD 1	HUB DRAIN			--
WH 1	WATER HEATER	CW		--
WH 1	WATER HEATER	G	+15" A.F.F.	--
WC 1	WATER CLOSET	CW	+29" A.F.F	BOTH HANDICAP AND REGULAR
UR 1	URINAL FLUSH VALVE	CW	+47" A.F.F.	WALL MOUNTED
UR 1	URINAL WASTE STUB	W	+16-1/2" A.F.F.	WALL MOUNTED
L 1	LAVATORY	TW	+20" A.F.F.	--
L 1	LAVATORY WASTE LINE	W	+16-1/2" A.F.F.	--
RO 1	REVERSE OSMOSIS	CW	+84" A.F.F	--
S 1	HAND SINK	TW	+18" A.F.F	RIM OF LAV @ +2'-8" A.F.F.
S 2	MOP SINK	W	-6" A.F.F.	RECESSED IN FLOOR
S 2	MOP SINK FAUCET	CW/HW	+36" A.F.F	--
S 2	MOP SINK FAUCET	CW/HW	+42" A.F.F	CLOSET MOP SINK ONLY
S 3	3-COMPARTMENT SINK	W	+19" A.F.F	--

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
S 3	3-COMPARTMENT SINK FAUCET	CW/HW	+38" A.F.F	--
S 4	PREP SINK	W	+19" A.F.F	--
S 4	PREP SINK FAUCET	CW/HW	+38" A.F.F	--
WCO 1	WALL CLEAN OUT			--
FCO 1	FLOOR CLEAN OUT			--
HB 1	HOSE BIB			--
C-107	RETHERMALIZER	HW	+8" A.F.F.	
C-107	RETHERMALIZER	G	+12" A.F.F.	
C-026	DUAL VAT FRYER	G	+12" A.F.F.	
S-286	WATER FILTER SYSTEM	CW	+94" A.F.F.	INLET TO & OUTLET FROM FILTER
P-452	HOT WATER SYSTEM	CW	+24" A.F.F.	

PLUMBING ROUGH-IN SCHEDULE NTS 3

1. ALL DIMENSIONS TO FLOOR SINKS, FLOOR DRAINS AND HUB DRAINS ARE TO CENTER OF FIXTURE.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON LOCATION OF ALL PLUMBING ROUGH-INS WITH INFORMATION PROVIDED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS AND EQUIPMENT ACTUALLY SUPPLIED AND TO CONFIRM CORRECTNESS OF DIMENSIONS INDICATED HEREIN.

PLUMBING ROUGH-IN NOTES NTS 2

GPD Engineering and Architecture
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ENDEAVOR 2.0
PLUMBING ROUGH-IN PLAN

P4.0

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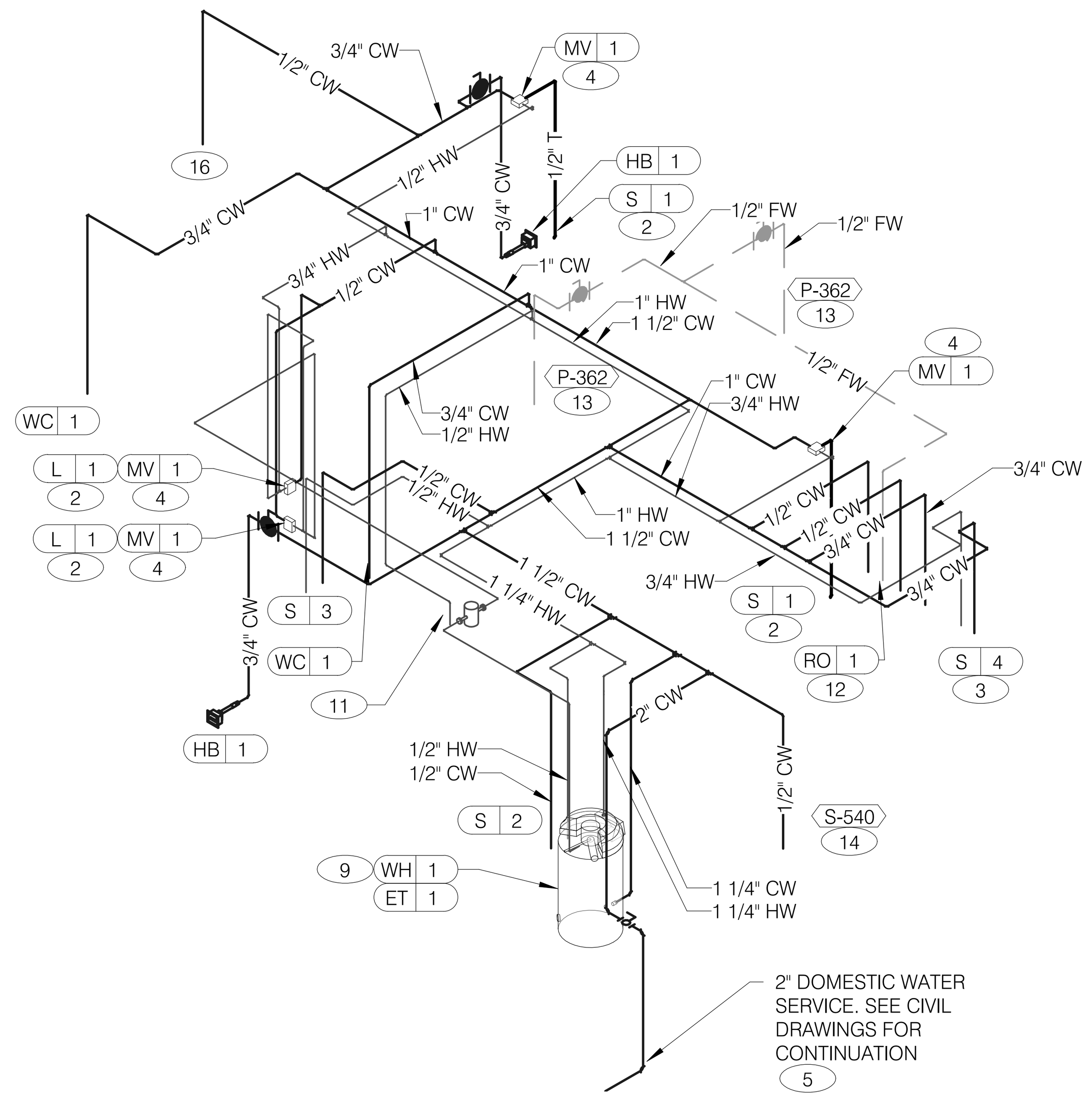
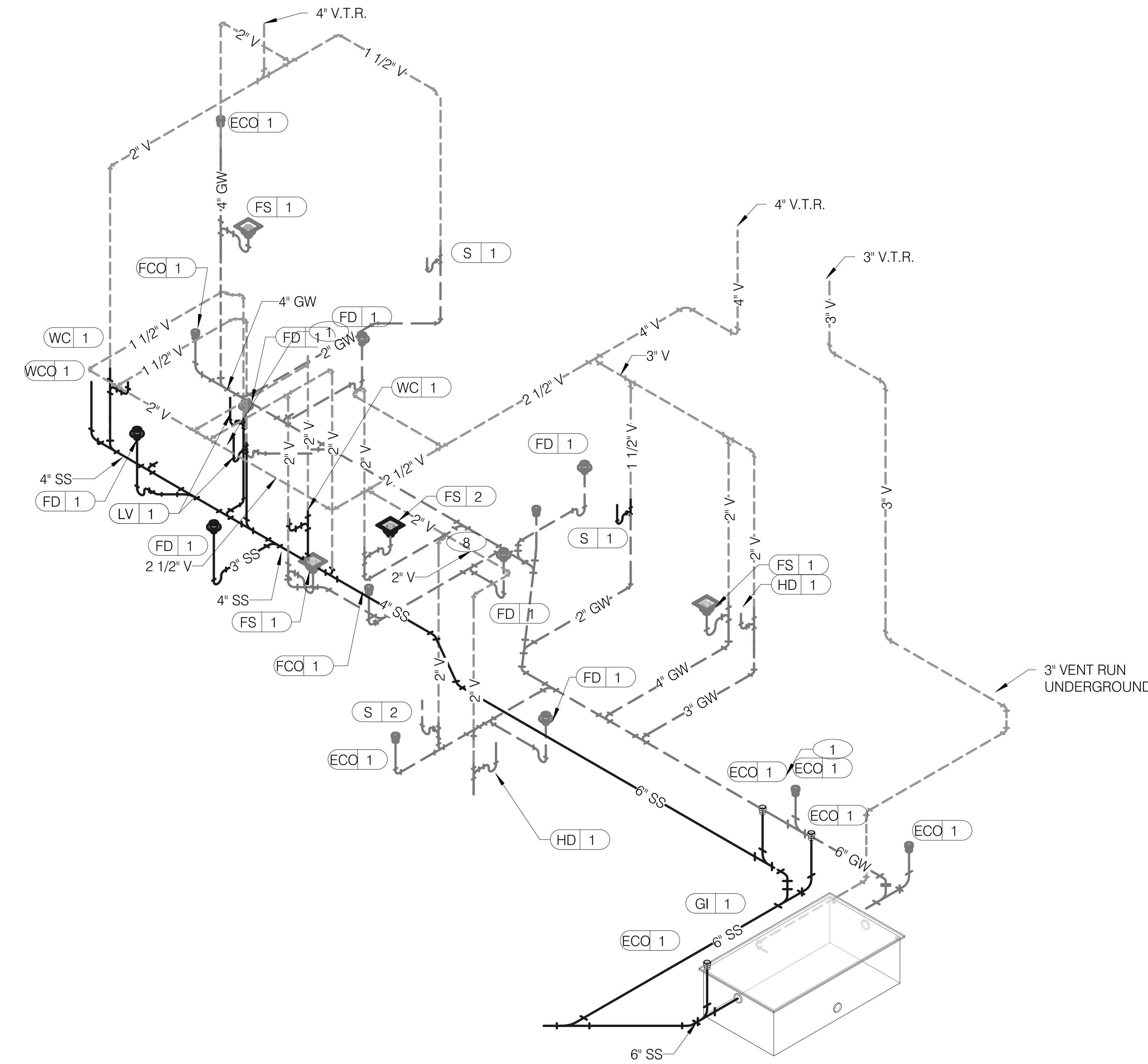


WATER ISOMETRIC NTS 4

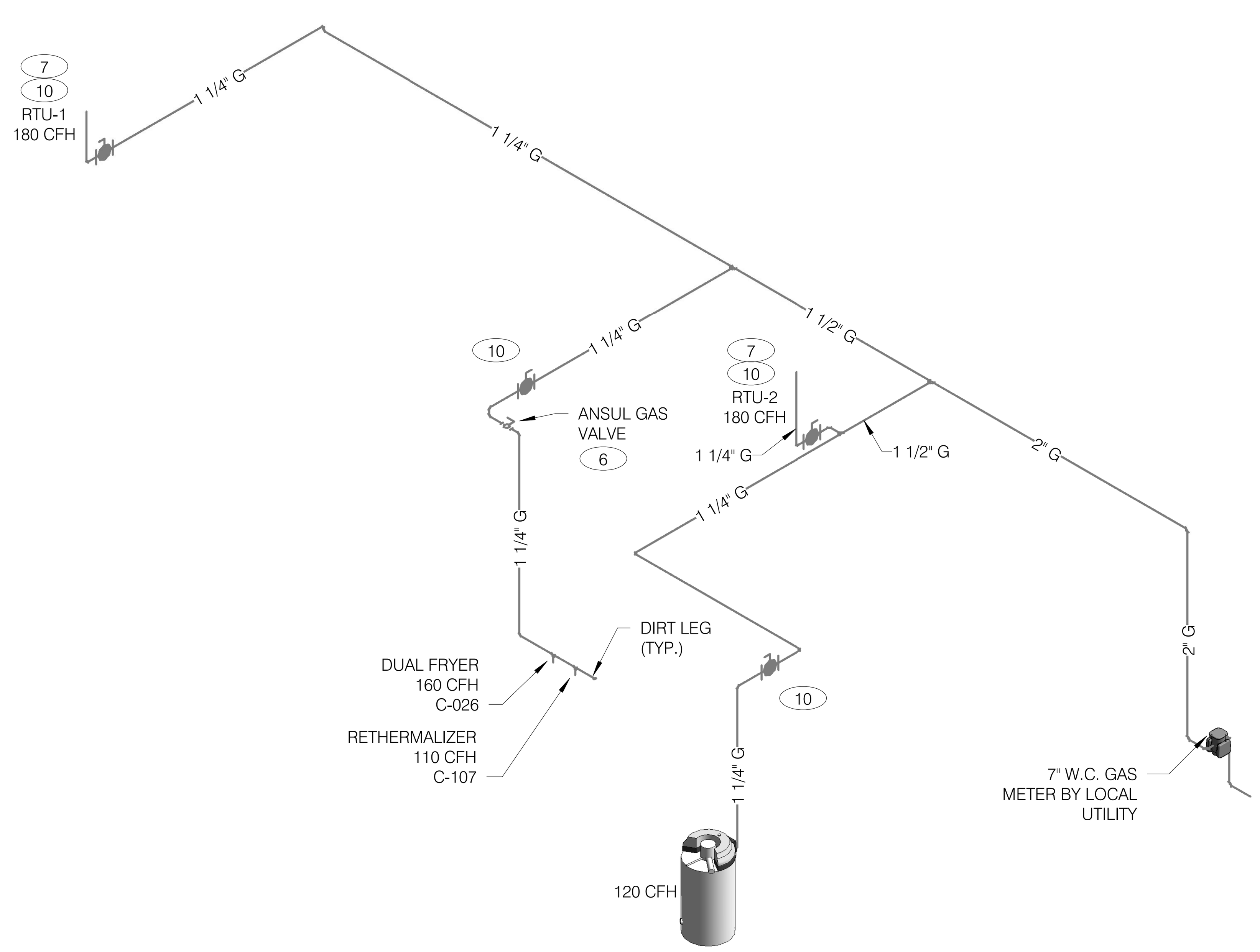


WASTE AND VENT ISOMETRIC NTS 1

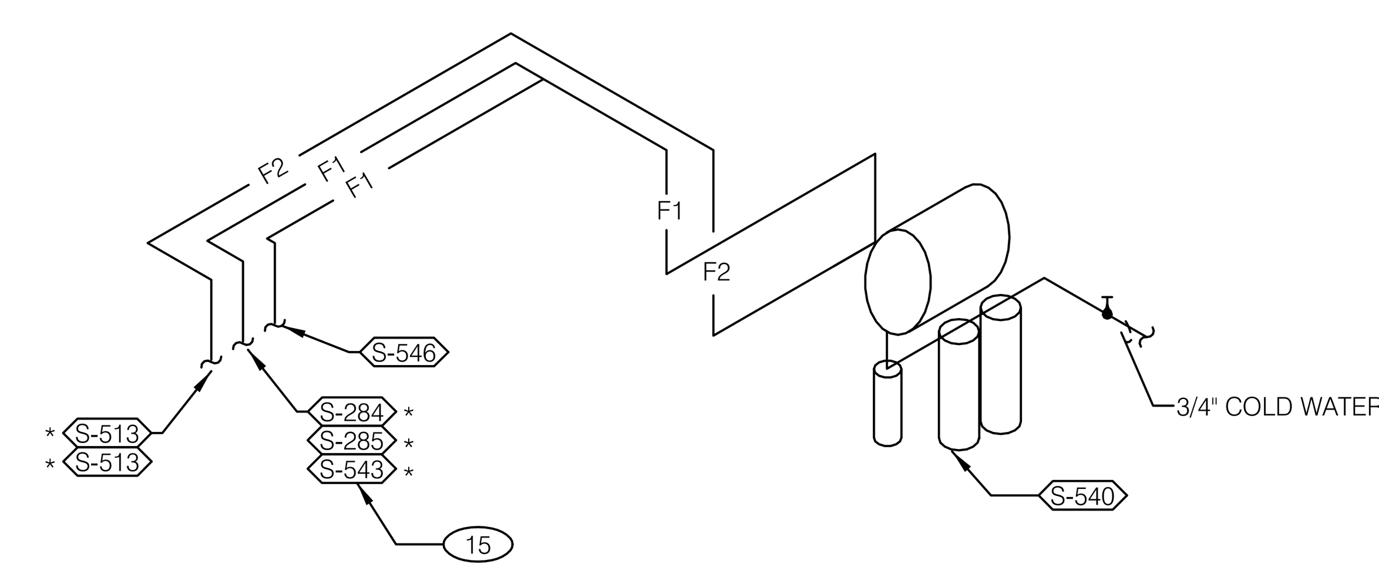
GAS DEMAND SCHEDULE	
RTU-1	180 CFH
RTU-2	180 CFH
WH-1	120 CFH
DUAL FRYER	160 CFH
RETHERMALIZER	110 CFH
TOTAL DEMAND	750 CFH = 750,000 BTUH

NOTE:
COORDINATE GAS DEMAND REQUIREMENTS WITH SITE-SPECIFIC RTU DESIGN.

PIPE SIZE BASED ON 120' OF PIPE AND 7" W.C. OPERATING PRESSURE



GAS ISOMETRIC NTS 5



FILTERED EQUIPMENT AND LINES:

- S-540 - WATER FILTER

FILTERED LINE (COLD WATER)

- S-513 - ICE MAKER - ABOVE SELF-SERVE BEVERAGE DISPENSER *
- S-513 - ICE MAKER - ABOVE DRIVE-THRU BEVERAGE DISPENSER *
- S-285 - DRIVE-THRU BEVERAGE DISPENSER *
- S-284 - SELF-SERVE BEVERAGE DISPENSER *
- S-546 - ICED TEA BREWER
- S-543 - FROZEN BEVERAGE DISPENSER

* FILTERED WATER SUPPLIED VIA SYRUP BUNDLE. REFER TO 11/P6.0. SEE SCOPE OF WORK FOR RESPONSIBILITIES.

FILTERED WATER ISOMETRIC NTS 2

1. ENTIRE RUN OF DRAIN LINES ON INLET TO GREASE TRAP SHALL BE SCHEDULE 40 PVC OR NO HUB CAST IRON AS REQUIRED BY CODE.
2. 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK / LAVATORY.
3. 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
4. THERMOSTATIC MIXING VALVE.
5. REDUCED PRESSURE BACKFLOW PREVENTER PER LOCAL UTILITY REQUIREMENTS. PROVIDE SHUT-OFF VALVES AT BOTH SIDES OF BACKFLOW PREVENTER. METER LOCATED OUTSIDE. VERIFY LOCATIONS WITH CIVIL DRAWINGS.
6. EMERGENCY GAS SHUT-OFF VALVE (NORMALLY CLOSED) SHALL BE ELECTRIC SOLENOID TYPE WITH SPRING RETURN AND 24 VOLT ACTUATOR, SUITABLE FOR USE ON GAS PIPING SYSTEMS. VALVE SHALL BE ACTIVATED BY ANY OF THE EXHAUST HOOD FIRE SUPPRESSION SYSTEM. PROVIDE RELAYS AS REQUIRED TO ACTIVATE SHUT-OFF VALVE.
7. GAS PIPING AT ROOF TOP UNIT FOR THROUGH THE BASE PIPE CONNECTION. SHUT-OFF VALVE SHALL BE LOCATED OUTSIDE OF THE UNIT.
8. PROVIDE NO HUB CAST IRON PIPE FOR FIRST 10 FEET OF PIPE FROM CONNECTION TO FLOOR SINK FS-2
9. PIPE T&P RELIEF VALVE TO OUTSIDE OF BUILDING OR TO HUB DRAIN. RUN FULL SIZE PIPE FROM VALVE WITH TYPE "K" COPPER TUBING.
10. PROVIDE GAS SHUT-OFF VALVE IN CEILING SPACE.
11. 1/2" HOT WATER PIPE DOWN IN WALL. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
12. 1/2" COLD WATER CONNECT TO REVERSE OSMOSIS FILTER AND 1/2" FILTERED WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF ON CW PIPE PRIOR TO CONNECTION TO FILTER.
13. 1/2" RO WATER FROM REVERSE OSMOSIS FILTER DOWN IN UTILITY CHASE OF M.A.P.S. LINE. PROVIDE SHUT-OFF VALVE ON FW PIPE IN CEILING NEAR UTILITY CHASE.
14. 1/2" COLD WATER TO HOT WATER SYSTEM FILTER.
15. TEE OFF 3/8" LINE FROM DRIVE THRU BEVERAGE DISPENSER FILTERED WATER SUPPLY. SEE DETAIL 8/P6.0.
16. 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.

KEYNOTES - ISOMETRICS NTS 3

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ENDEAVOR 2.0
RISER DIAGRAMS

P5.0

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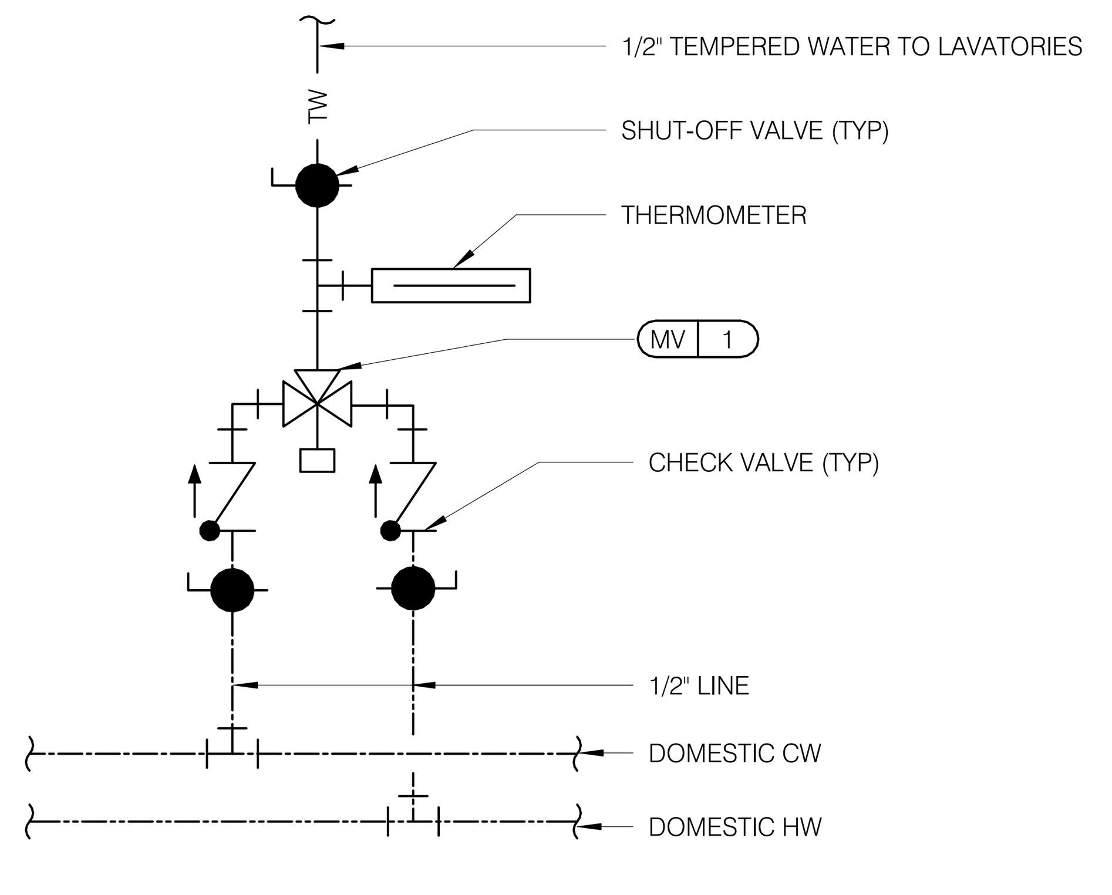
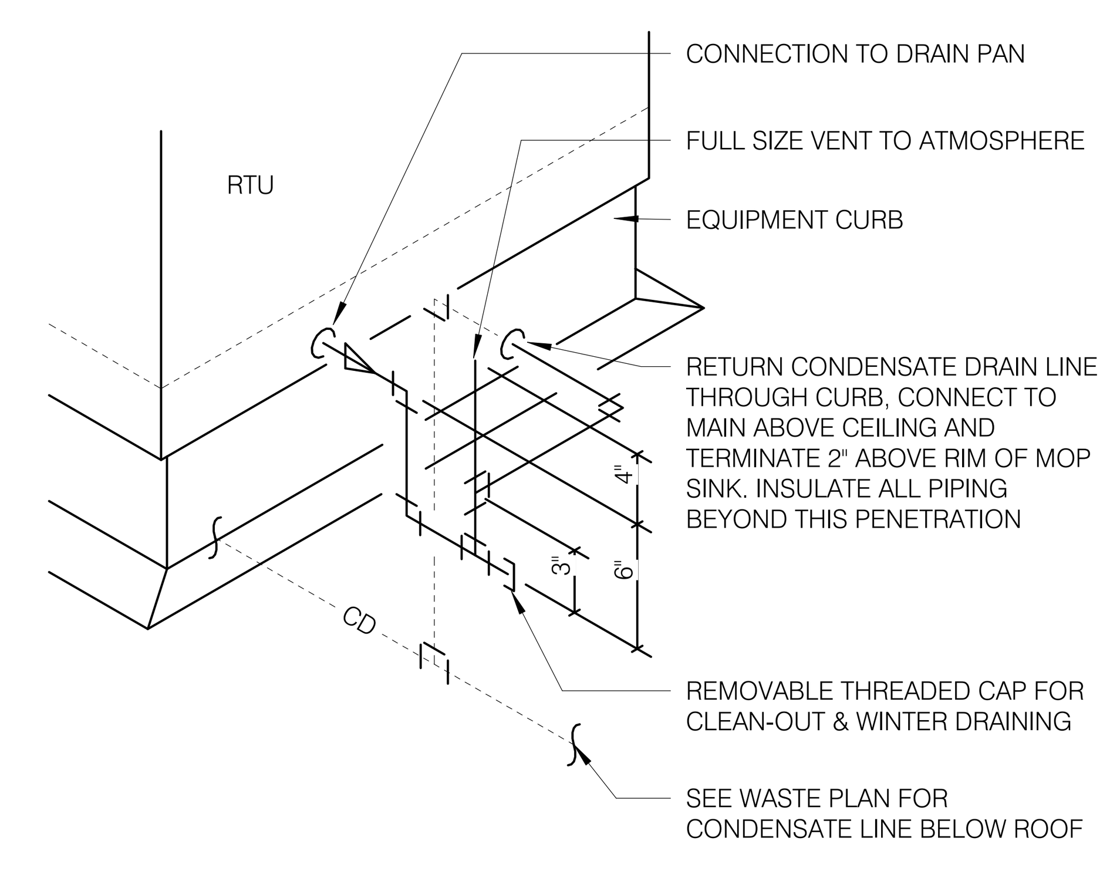
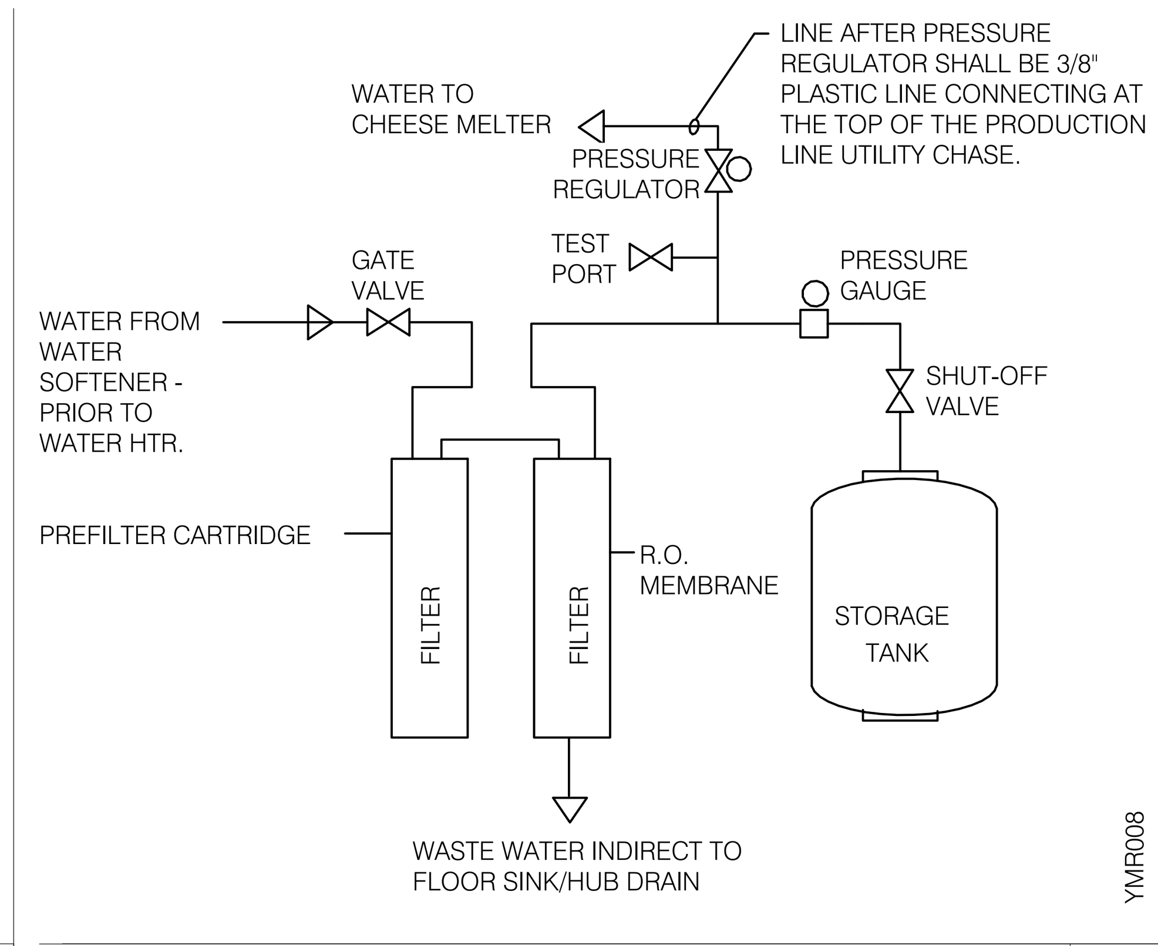


TEMPERING VALVE NTS 11

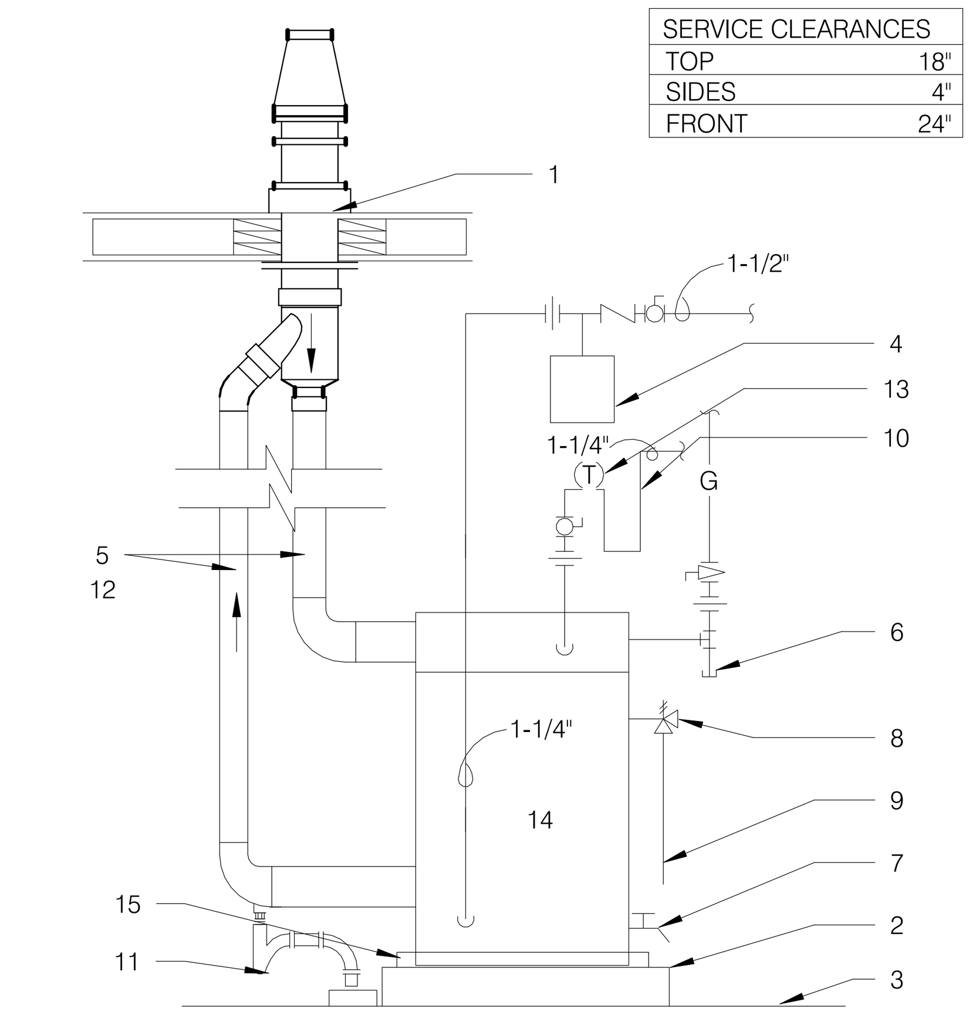


RTU CONDENSATE NTS 10



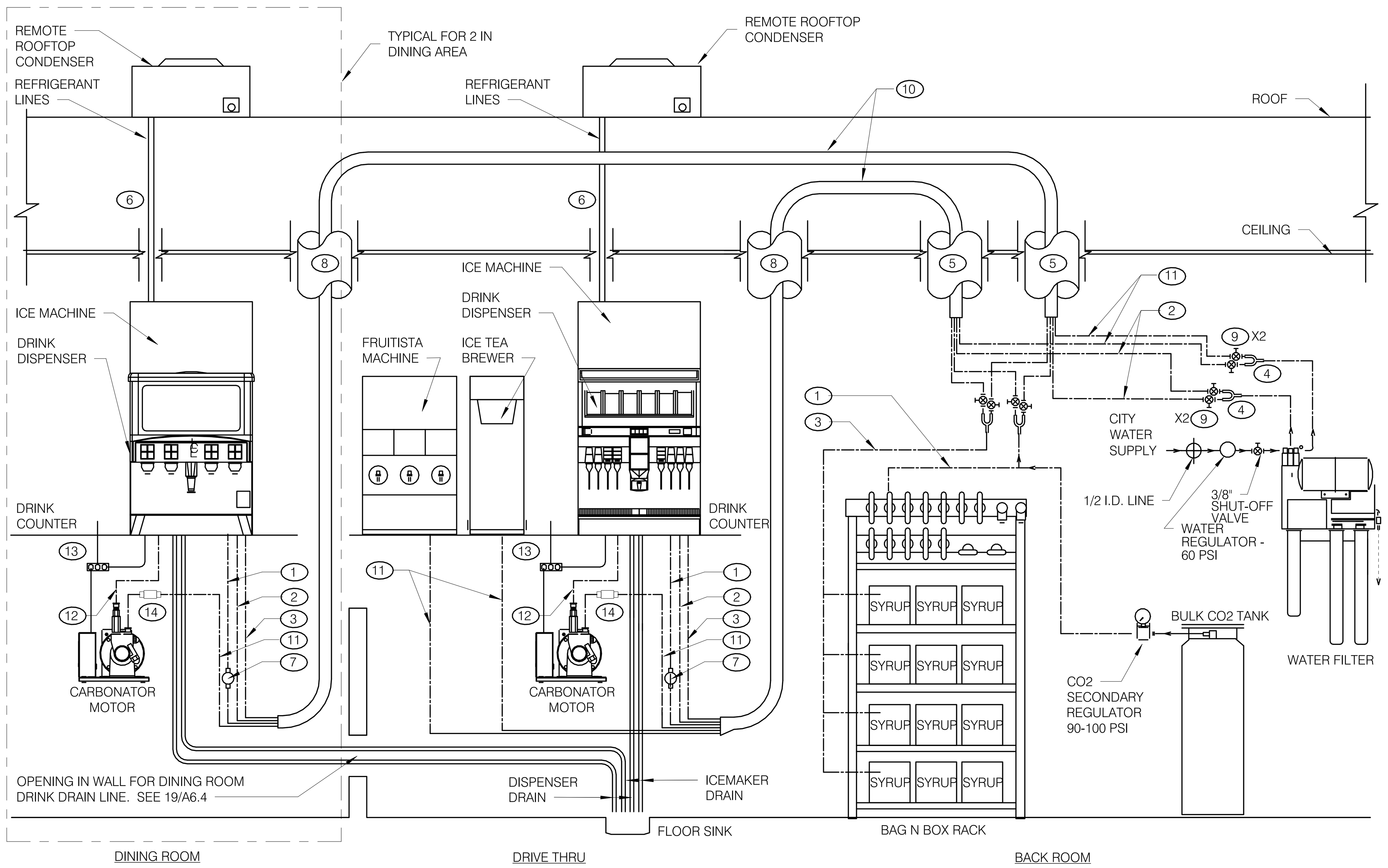
REVERSE OSMOSIS SYSTEM NTS 9

SERVICE CLEARANCES	
TOP	18"
SIDES	4"
FRONT	24"



1. FLUE THRU ROOF
2. 4" CONCRETE PAD
3. FINISHED FLOOR
4. THERMAL EXPANSION TANK BY WATTS - SEE PLUMBING SCHEDULE - STRAP AND SUPPORT TO WALL
5. SCHEDULE 40 PVC, MINIMIZE TURNS AND TRANSITIONS.
6. GAS COCK VALVE WITH FULL SIZE DIRT LEG
7. 3/4" DRAIN WITH VALVE & CAP
8. COMBINATION TEMPERATURE AND PRESSURE RELIEF PER LOCAL CODE
9. RUN T&P DISCHARGE FULL SIZE TO HUB DRAIN
10. 22" DEEP HEAT TRAP
11. P-TRAP AND LINE TO DRAIN PROVIDED BY MANUFACTURER. LEAVE AIR GAP BETWEEN BOTTOM OF TRAP AND DRAIN. SEE DETAIL 4/P2.0
12. SUPPORT VENT PIPE RUNS EVERY 5'-0" VERTICALLY AND EVERY 3'-0" HORIZONTALLY.
13. OUTLET THERMOMETER PROVIDED BY MFR. LOCATE WITHIN 12" OF W.H. OUTLET.
14. SEE DETAIL 2/P6.1 FOR SCHEDULE OF ITEMS PROVIDED BY W.H. MFR.
15. DRAIN PAN TO HUB DRAIN.

WATER HEATER NTS 2



GENERAL NOTES:

1. OVERALL FILTER DIMENSIONS: 21" WIDE x 12" DEEP x 48 1/2" HIGH
2. SEE DETAIL SCOPE OF WORK FOR SCOPE DEFINITIONS.
3. ROUGH-INS SHALL BE PROVIDED BY CONTRACTOR.
4. INSTALLATION SHALL COMPLY WITH STATE AND LOCAL PLUMBING CODES.
5. FILTER SHALL BE PROTECTED AGAINST FREEZING.
6. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
7. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
8. SEE EQUIPMENT PLAN FOR LOCATION.
9. SEE DETAIL 3 THIS SHEET FOR BUNDLE DETAILS
10. "Y" FOR ICE MACHINES SUPPLY LINES SHALL BE INSTALLED @ FILTER OUTLET.
11. BACKFLOW PREVENTERS FOR FILTER ASSEMBLY ARE PROVIDED.
12. PROVIDE WATTS SD-3 BACKFLOW PREVENTER WITH STRAINER UPSTREAM OF THE SODA CARBONATOR. SEE NOTE 14 BELOW.

THERE ARE TWO SELF-SERVE DRINK/ICE SYSTEMS WHICH SHARE A COMMON FLOOR SINK WITH THE D/T DRINK/ICE SYSTEM.

INSTALL ELECTRICAL, WATER, AND DRAIN IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL CODES.

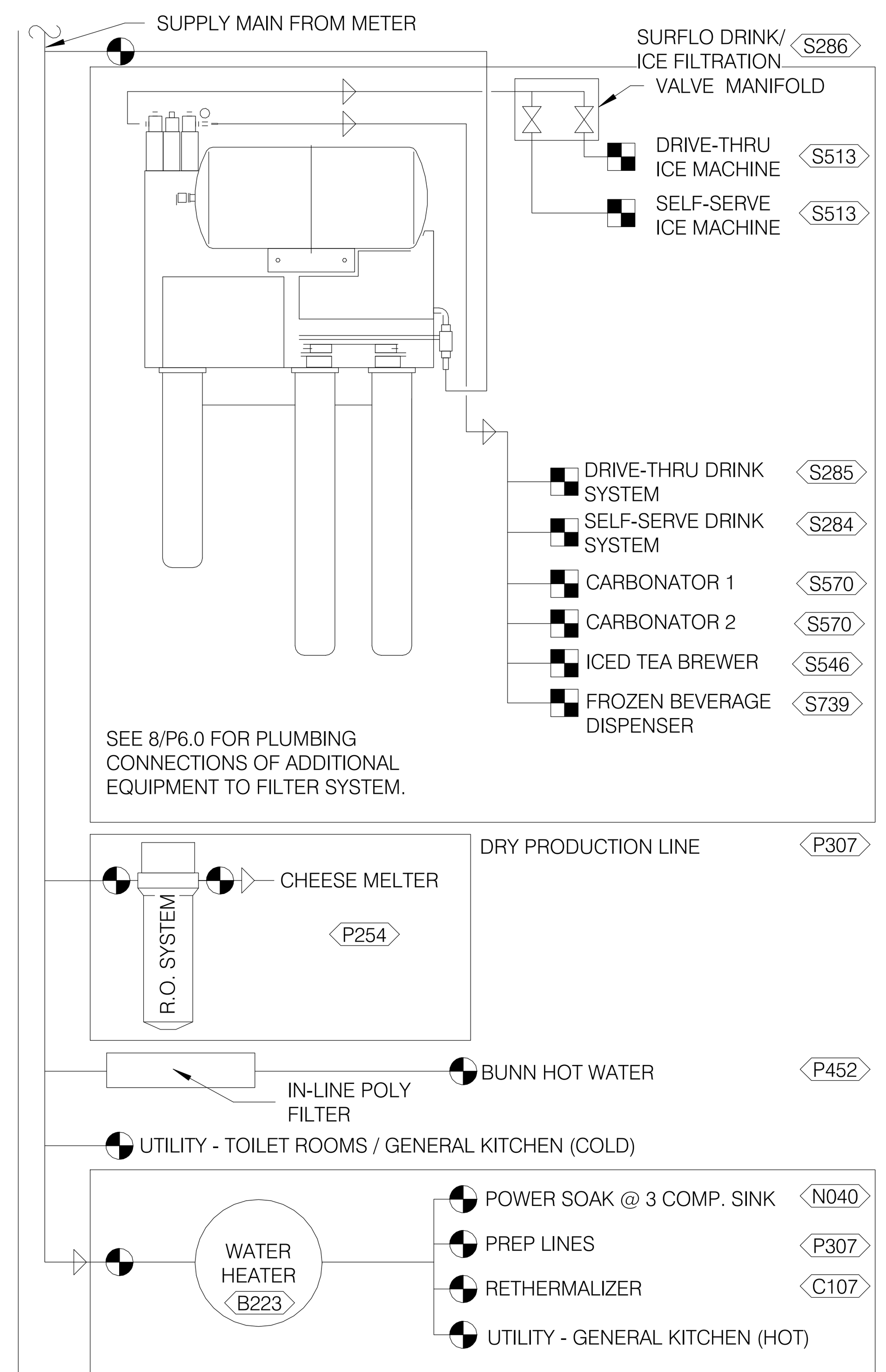
EQUIPMENT RATING:
ED250 DISPENSER - 115V, 3.5 AMPS
ED300 DISPENSER - 115V, 4.0 AMPS
CARBONATOR - 115V, 60 Hz, 7.0 AMPS
BOOSTER ASSEMBLY - 115V, 60 Hz, 6.5 AMPS

KEY NOTES:

1. 3/8" CO_2 LINE
2. 3/8" FILTERED WATER LINE - ICE MACHINES
3. 3/8" SYRUP LINES
4. 1/2 X 3/8 X 3/8 "Y"
5. BUNDLED TUBING CEILING PENETRATION.
6. STAINLESS CHASE SURFACE MOUNTED FROM CEILING TO TOP OF ICE MACHINE
7. PRE-SET CO_2 REGULATOR
8. RECESSED 4" DIA. PVC VERTICAL CHASE FOR DRINK SYSTEM BUNDLED TUBING SYSTEM.
9. 3/8" SHUT OFF VALVES BARB FITTINGS
10. DRINK SYSTEM BUNDLED TUBING. SEE DETAIL 6/P6.0
11. 3/8" FILTERED WATERLINE - ICE TEA, FRUITISTA & DRINK MACHINES
12. 3/8" LINE FOR PRESSURIZE FILTERED WATER
13. ELECTRICAL FOR DRINK SYSTEM. SEE SHEET E3.0
14. CARBONATED BEVERAGE BACKFLOW PREVENTER

TPS030

DRINK SYSTEM SCHEMATIC NTS 8



LEGEND

Nxxx	KITCHEN EQUIPMENT # (SHEET A2.0)		FLOW ARROW
	SYSTEM		POINT OF CONNECTION (PEPSI)
			POINT OF CONNECTION (GC)

TPS031

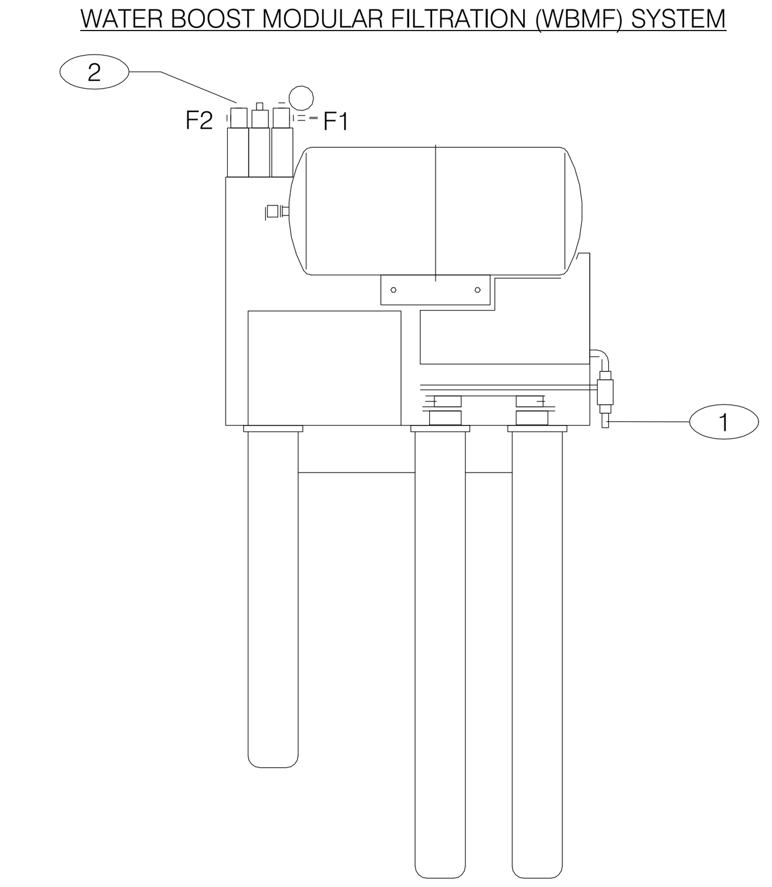
WATER FILTRATION SCHEMATIC NTS 3

ALL WORK THIS DETAIL PER DETAILS 6, 11 & 12/P6.0

FILTER LINE F1 SUPPLIES BUNDLED TUBE BY PEPSI
1. DRIVE THRU DRINK STATION
2. SELF SERVE DRINK STATION

FILTER LINE F2 SUPPLIES BUNDLED TUBE BY PEPSI
1. ICE MACHINES

WB2-M3-22-003
WATER BOOST MODULAR FILTRATION (WBMF) SYSTEM



KEY NOTES:

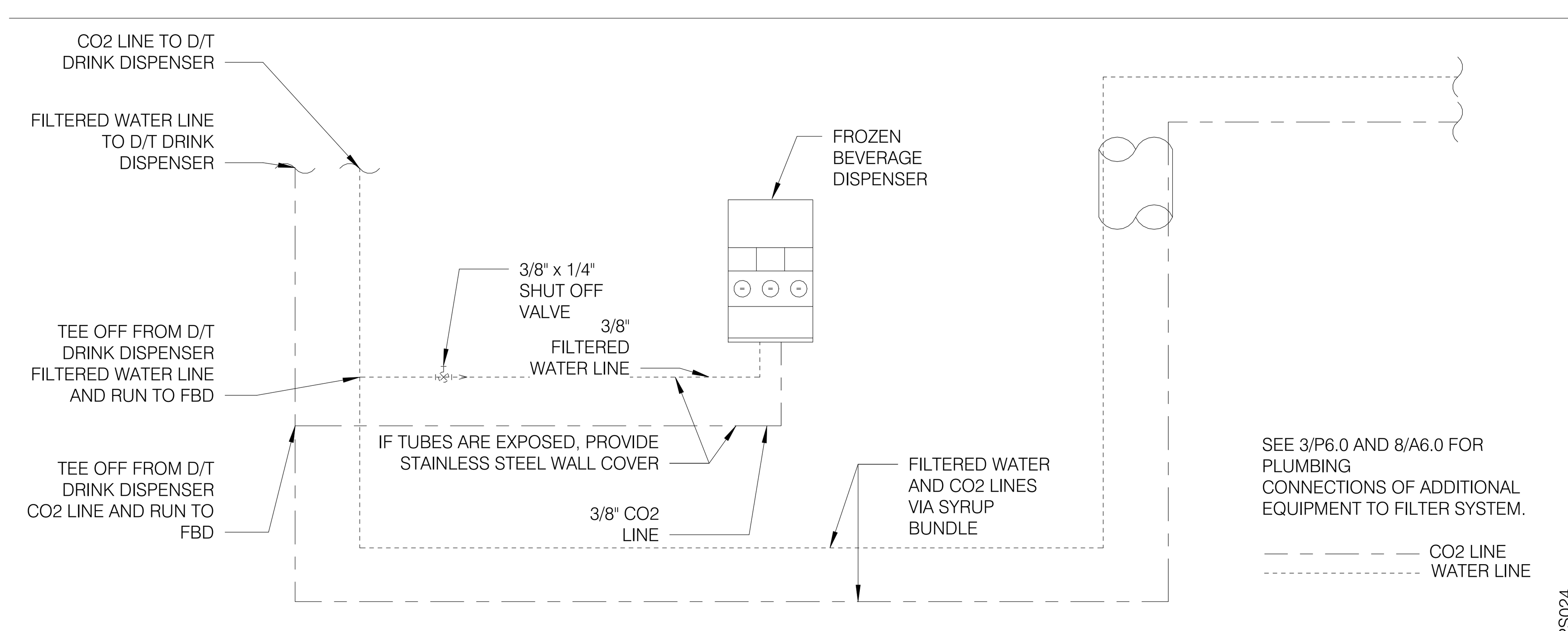
1. 3/4" COLD WATER INLET TO 1/2" COPPER LINE AND FITTINGS AT FILTER.
2. 3/4" OUTLET W/ INTEGRAL BACKFLOW PREVENTER, EQUAL TO WATTS REGULATOR CO. SERIES 007 AND SERVICE BALL VALVE.

GENERAL NOTES:

1. OVERALL DIMENSIONS 21" WIDE x 12" DEEP x 48 1/2" HIGH
2. SEE SCOPE OF WORK FOR ADDITIONAL INFORMATION.
3. INSTALLATION SHALL COMPLY WITH STATE AND LOCAL PLUMBING CODES.
4. THE UNIT SHALL BE PROTECTED AGAINST FREEZING.
5. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
6. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
7. SEE SHT. A2.0 FOR LOCATION.

TPW001

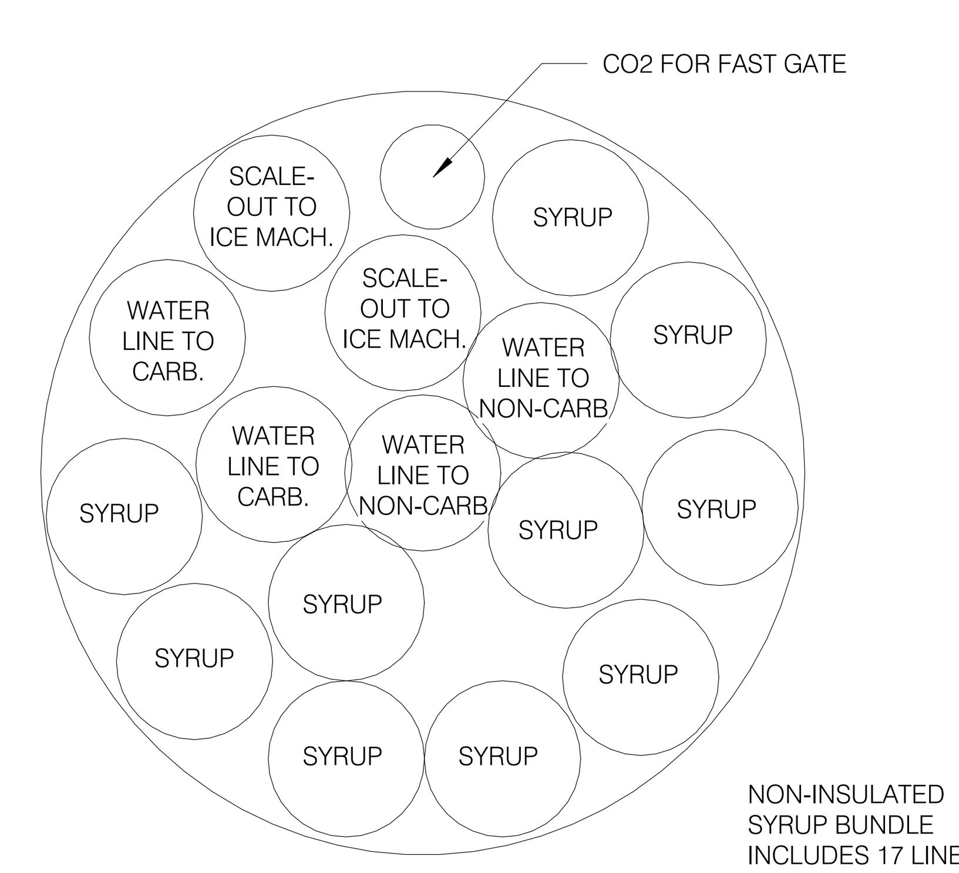
WATER FILTER SYSTEM NTS 1



SEE 3/P6.0 AND 8/A6.0 FOR PLUMBING CONNECTIONS OF ADDITIONAL EQUIPMENT TO FILTER SYSTEM.

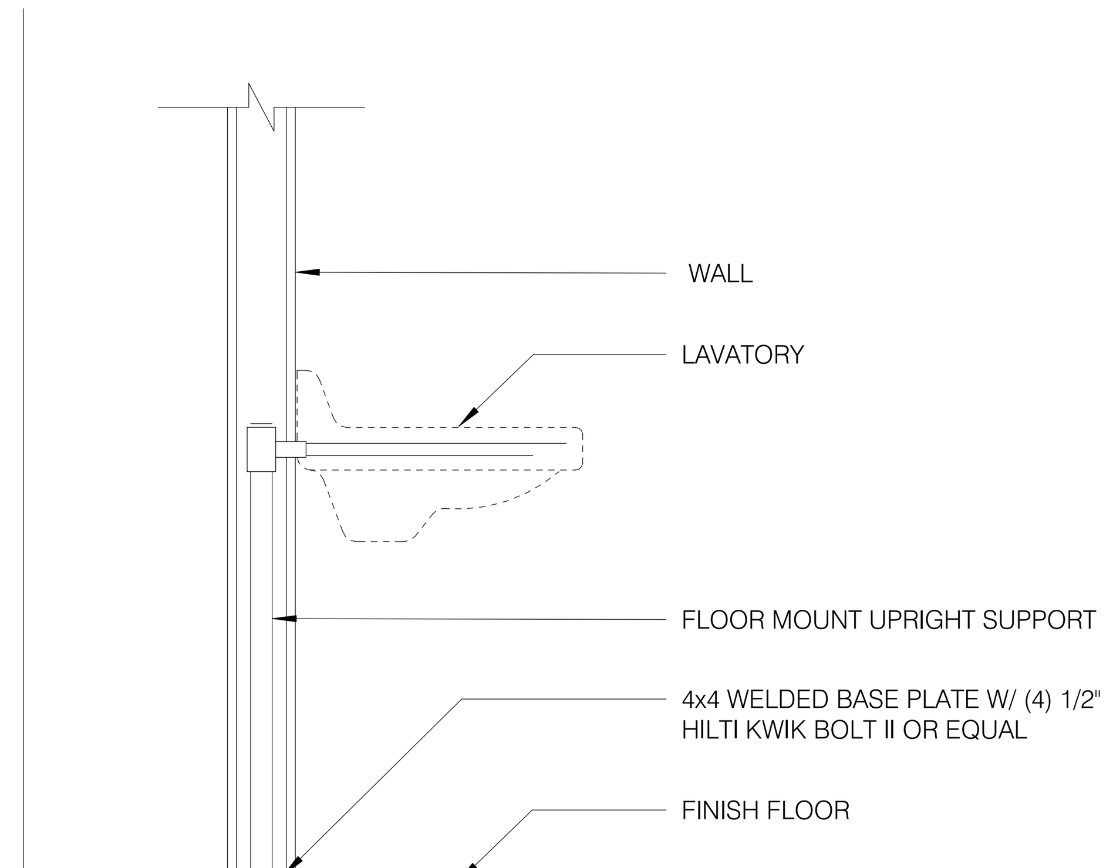
TPS024

FBD DRINK SYSTEM DETAIL NTS 7



NON-INSULATED SYRUP BUNDLE INCLUDES 17 LINES

SYRUP BUNDLE CONFIGURATION NTS 6



LAVATORY SUPPORT NTS 5

GPD Engineering and Architecture Professional Corporation - C3879

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DRAWN BY.:	TH
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
PLUMBING DETAILS

P6.0

PLOT DATE: 3/31/2022 12:49:37 PM

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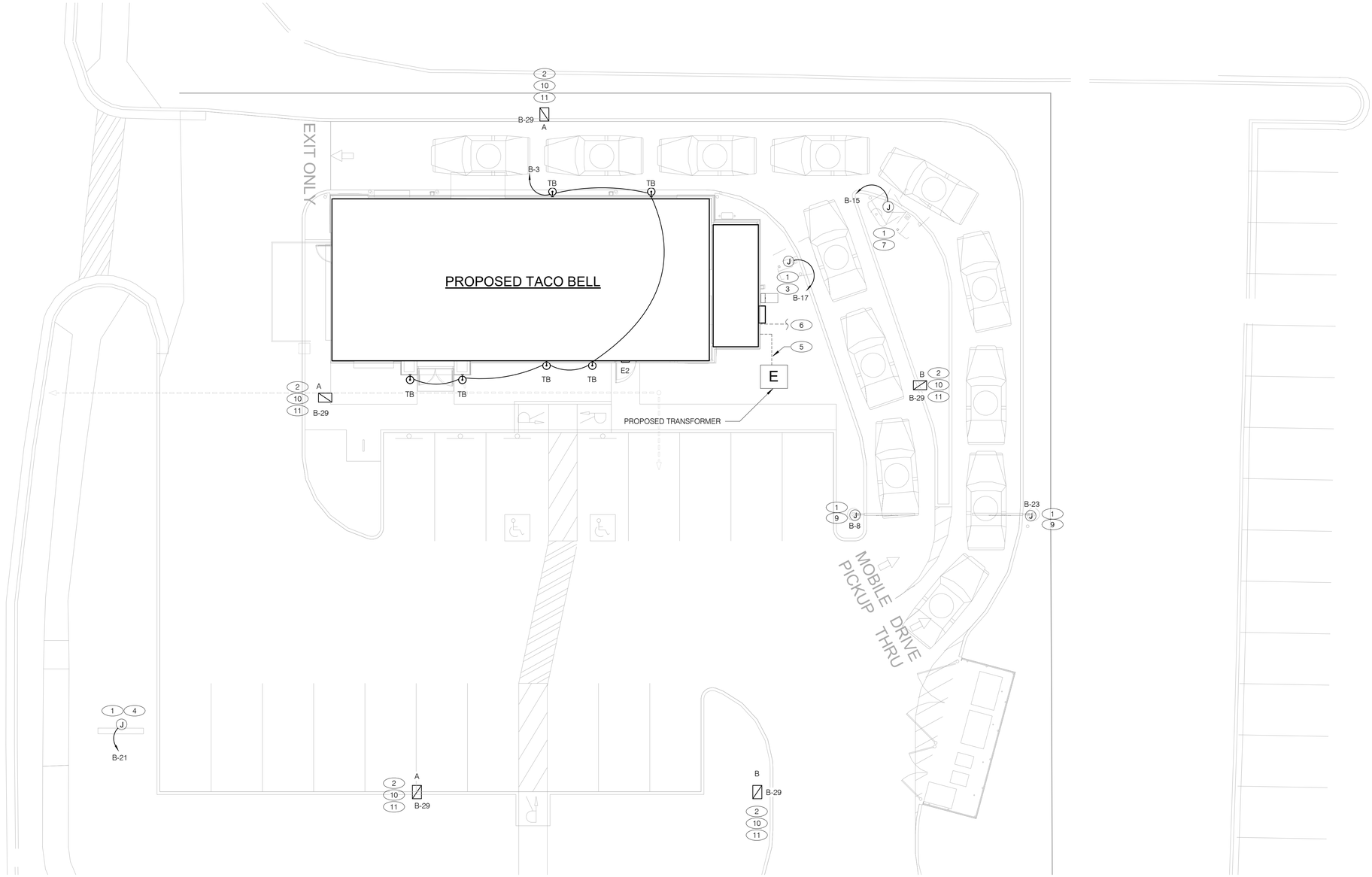

CONDUIT SCHEDULE

DEVICE	POWER	DATA
DIRECTIONAL	(1) 1"	-
SPEAKER POST	(1) 1"	(1) 1"
MENUBOARD	(1) 1"	(2) 1"

1. 1" C. - (2) #8, #8 GRD. (TYP. FOR ENTIRE CIRCUIT.)
2. REFER TO LIGHTING FIXTURE SCHEDULE ON E4.0 FOR ADDITIONAL INFORMATION ON LIGHTIN FIXTURES. (TYPICAL)
3. DIGITAL MENU BOARD. REFER TO CONDUIT SCHEDULE FOR CONDUIT SIZE AND QUANTITY. PROVIDE (2) #8AWG., #8 GND. IN 1"C. REFER TO CIVIL DRAWINGS.
4. LED PYLON SIGN.
5. UNDERGROUND ELECTRIC SERVICE TO UTILITY CO. TRANSFORMER. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
6. PROVIDE SEPARATE 2" TELEPHONE AND CABLE (HIGH SPEED INCLUDED) CONDUITS TO CONNECTION ON SITE . REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
7. SPEAKER POST AND CANOPY. REFER TO CONDUIT SCHEDULE FOR CONDUIT SIZE AND QUANTITY.
8. NOT USED.
9. CLEARANCE BAR. REFER TO CIVIL DRAWINGS.
10. LED SITE LIGHTING, REFER TO CIVIL DRAWINGS, TYP. REFER TO DETAIL 12/C1.1.
11. 1" C. - (2) #8, #8 GND.

ELECTRICAL SITE PLAN - Mt. Holly 1" = 10'-0" | 1

GPD Engineering and Architecture
Professional Corporation - C3879

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
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	03.17.22	Issued for RSCS Bid
	04.01.22	Issued for Bid

CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2020088.07

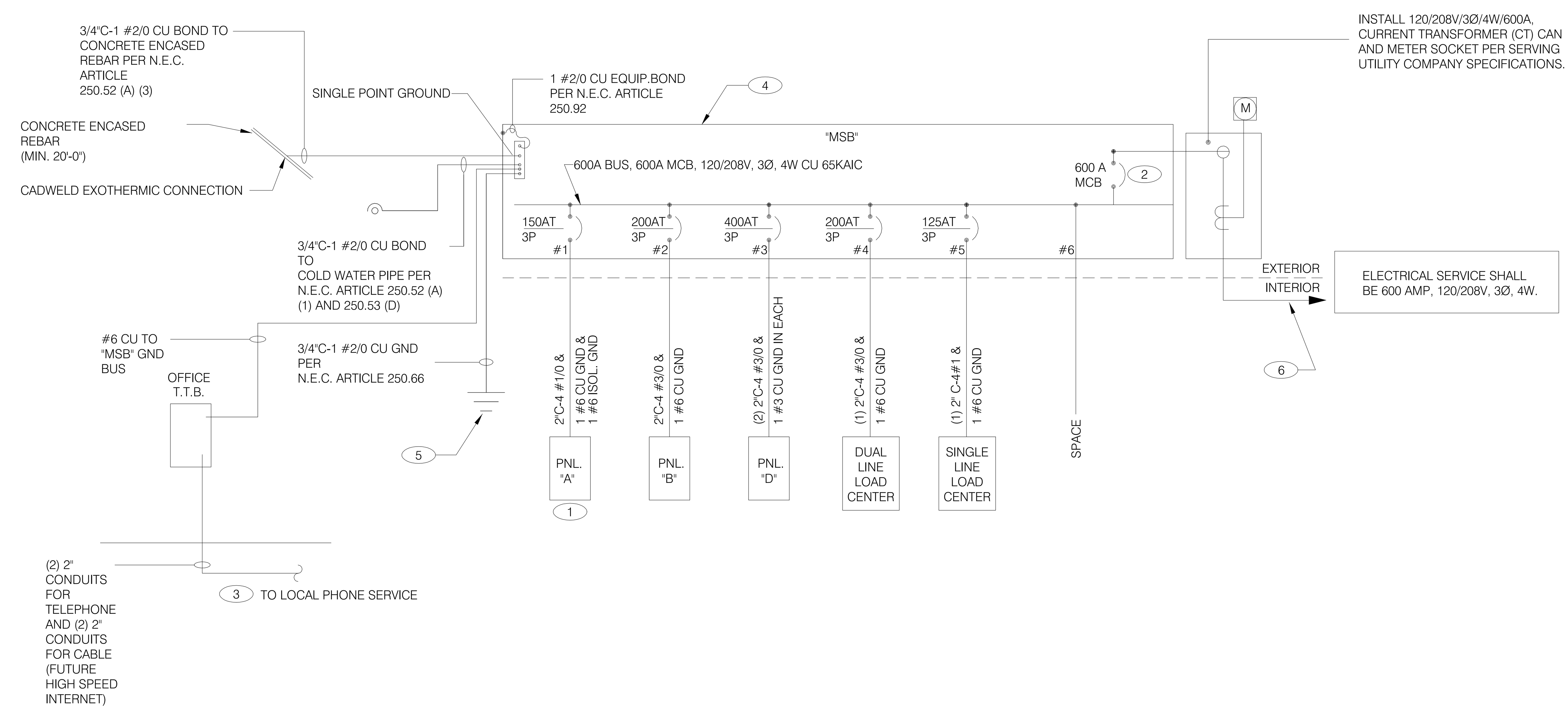
TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
SITE ELECTRICAL PLAN

E1.0

PLOT DATE: 3/31/2022 12:48:56 PM



SINGLE LINE DIAGRAM NTS A

Symbol	Description
	2X4 LED FIXTURE
	2X4 LED FIXTURE WITH BATTERY PACK
	1X4 LED FIXTURE
	1X4 LED FIXTURE WITH BATTERY PACK
	DOWNLIGHT FIXTURE
	SUSPENDED DOWNLIGHT FIXTURE
	PENDANT MOUNTED LIGHT FIXTURE
	TRACK MOUNTED PENDANT LIGHT FIXTURE
	COOLER FIXTURE
	EXIT SIGN (WALL MOUNTED)
	EXIT SIGN (CEILING MOUNTED)
	SECURITY STROBE
NL	NIGHTLIGHT
S	CEILING MOUNTED SPEAKER
S	WALL MOUNTED SPEAKER
J	JUNCTION BOX
J	WALL MOUNTED JUNCTION BOX
	TELEPHONE OUTLET
	DEDICATED GROUNDED OUTLET
	DUPLEX GROUNDED OUTLET
	DOUBLE DUPLEX GROUNDED OUTLET
	GROUND FAULT DUPLEX OUTLET
	GROUND FAULT DUPLEX W/ BOTT. HALF SWITCHED
	GROUND FAULT DEDICATED OUTLET
	CEILING DUPLEX OUTLET
	DUPLEX ISOLATED GROUND OUTLET
	DOUBLE DUPLEX ISOLATED GROUND OUTLET
	DEDICATED ISOLATED GROUND
	SPECIAL PURPOSE OUTLET
	CEILING SPECIAL PURPOSE OUTLET
	ELECTRICAL PANEL. SEE SHEET E2.1 FOR PANEL SCHED.
	HOLD UP EMERGENCY BUTTON
	ELECTRICAL MOTOR
SD	DUCT MOUNTED SMOKE DETECTOR
C	CONNECTION TO EQUIPMENT
	FUSIBLE DISCONNECT SWITCH WITH STARTER
	FUSIBLE DISCONNECT SWITCH
	NON-FUSIBLE DISCONNECT SWITCH
PC	PHOTOCELL
RS	RAIN SENSOR
	LED WALL MOUNT FIXTURE
	EMERGENCY LIGHT
S OS	SINGLE POLE, SINGLE THROW TOGGLE SWITCH
S P	SINGLE POLE, SINGLE THROW TOGGLE SWITCH W/ PILOT LIGHT
S OS	WALL MOUNTED OCCUPANCY SENSOR
R	RELAY
	CONDUIT RUN, UNDERGROUND
	SMOKE DETECTOR
	EXTERIOR WALL FIXTURE
	EXTERIOR DECORATIVE WALL FIXTURE
	EXTERIOR DECORATIVE WALL FIXTURE
WPG	WEATHERPROOF GROUND FAULT

ELECTRICAL LEGEND NTS D

A. THERE SHALL BE U.L. LISTED SERIES RATING BETWEEN CKT. BREAKERS LOCATED AT THE DISTRIBUTION PANEL AND THE DOWNSTREAM 10k A.I.C. RATED CIRCUIT BREAKERS AT PANELS "A", "B" DUAL-LINE EQUIPMENT CABINET BASED ON THE MAXIMUM FAULT CURRENT AS DETERMINED AT THE SERVICE ENTRANCE AND DOWNSTREAM 22K A.I.C. RATED CIRCUIT BREAKERS AT PANEL "D."

B. SEE SCOPE OF WORK FOR DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL OTHER ASPECTS OF THE PROJECT

C. IF UTILITY COMPANY PROPOSES A SERVICE DIFFERENT FROM THAT ILLUSTRATED, CONTACT THE CONSTRUCTION ENGINEER FOR A DECISION BEFORE PROCEEDING. COORDINATE AVAILABLE SHORT CIRCUIT CURRENT W/ LOCAL UTILITY AND PROVIDE CIRCUIT BREAKERS W/ SUFFICIENT INTERRUPTING CAPACITY.

D. COORDINATE CT METERING COMPARTMENT SIZE WITH LOCAL UTILITY COMPANY. THE LOCAL ELECTRICAL INSPECTOR AND THE NATIONAL ELECTRICAL CODE TO MEET ALL REQUIREMENTS BEFORE PURCHASE AND INSTALLATION. NEW METER BY LOCAL UTILITY COMPANY.

E. ALL WIRING SHOWN SHALL BE COPPER TYPE "THHN/THWN" EXCEPT FEEDERS FROM UTILITY TRANSFORMER TO SWITCH BOARD MAY BE ALUMINUM.

F. ARMOR CABLE ACCEPTABLE FOR THE LAST 6'-0" FROM A JUNCTION BOX TO LIGHT FIXTURES. ARMOR CABLE IS NOT ALLOWED FOR NON-ACCESSIBLE FLOORS, WALLS AND CEILINGS.

ONE LINE DIAGRAM GENERAL NOTES NTS C

1. WIRE ISOLATED GROUND TO ISOLATION GROUND BUS IN PANEL AND LAND ISOLATED GROUND TO SINGLE POINT GROUND. "DO NOT COMBINE COMMON GND TO ISOLATED GROUND". REF DETAIL 6/E3.1.
2. PROVIDE 100% RATED MAIN CIRCUIT BREAKER IN MDP.
3. PROVIDE 2" CONDUIT STUBBED INTO BUILDING FROM LATERAL POLE FOR TELEPHONE AND 2" CONDUIT FOR FUTURE HIGH SPEED CABLE.
4. VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH THE UTILITY COMPANY. IF THE AIC RATING AS INDICATED IS NOT SUFFICIENT, CONTACT PROJECT MANAGER AND ENGINEER PRIOR TO BID/PRICING TO UPDATE EQUIPMENT RATING.
5. (3) 5/8" DIA. x 10'-0" COPPER CLAD GROUND RODS. INSTALL 10'-0" APART AND CONNECT GROUND SYSTEM PER N.E.C. ARTICLE 250
6. PROVIDE UNDERGROUND SERVICE LATERAL TO UTILITY TRANSFORMER PER SERVING UTILITY COMPANY SPECIFICATIONS. 4#350 KCMIL CU. IN EACH OF (2) 3"C. TO PAD MOUNT TRANSFORMER. GC/ELECT. CONTRACTOR SHALL COORDINATE SERVICE POLES PER LOCAL UTILITY CODE. IF ALUMINUM CONDUCTORS ARE USED PROVIDE 4#500 KCMIL CU. IN EACH (2) 3-1/2"C.

ONE LINE DIAGRAM KEY NOTES NTS B

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DRAWN BY.:	AJR
JOB NO.:	2020088.07

TACO BELL
109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
ELECTRICAL ONE LINE DIAGRAMS AND LEGEND

E2.0

PLOT DATE: 3/31/2022 12:48:57 PM

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Switchboard: MSB

Location:
Supply From:
Mounting: SURFACE
Enclosure: NEMA-3R
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 65 KAIC
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

Notes: 100% RATED CIRCUIT BREAKER

CKT	Circuit Description	WIRE SIZE	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANELBOARD A	1/0	3	200 A	150 A	28100 VA	--
2	PANELBOARD B	3/0	3	200 A	200 A	15085 VA	--
3	PANELBOARD D	3/0	3	400 A	400 A	64237 VA	--
4	DUAL COOK LINE PANEL	3/0	3	200 A	200 A	52000 VA	
5	SINGLE COOK LINE	1	3	125 A	125 A	28800 VA	
6	Space		--	--	--	0 VA	--
					Total Conn. Load:	188222 VA	
					Total Amps:	522 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	32020 VA	100.00%	32020 VA		
Kitchen	11958 VA	65.00%	7773 VA	**Total Conn. Load:**	188222 VA
Lighting	7699 VA	125.00%	9624 VA	**Total Est. Demand:**	185962 VA
Other	830 VA	100.00%	830 VA	**Total Conn. Current:**	522 A
Power	111812 VA	100.00%	111812 VA	**Total Est. Demand Current:**	516 A
Receptacle	6524 VA	100.00%	6524 VA		
Refrigeration	17379 VA	100.00%	17379 VA		

Notes:

Panel: A

Location:
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SERIES
Mains Type: M.L.O.
Mains Rating: 150 A
MCB Rating: N/A

Notes:
PROVIDE ISOLATED GROUND BAR

	NOTES	CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT	NOTES	
(1)		1	P-417 TIMER	20 A	1	180 VA	300 VA					1	20 A	F-040 OFFICE COMPUTER	2	IG	
	GF	3	S-546 ICED TEA	20 A	1			480 VA	720 VA			1	20 A	DRIVE THRU POS/ORDER ENTRY 1	4		
(1)		5	OFFICE QUAD RECEPTACLE	20 A	1					180 VA	480 VA	1	20 A	S-546 BREWER	6	GF	
		7	J-BOX SECURITY SYSTEM / DVR	20 A	1	1180...	180 VA					1	20 A	U-011	8		
		9	S-026 HEAT CABINET	20 A	1			1800...	540 VA			1	20 A	RECEPTACLES - OFFICE	10		
	IG	11	U-050 CREDIT CARD SAT. ROUTER JUNC.	20 A	1					860 VA	648 VA	1	20 A	S-204 D/T TIMING SYSTEM	12		
		13	F-090	20 A	1	1540...	1140...					1	20 A	R-009 FULL HEIGHT FREEZER	14	GF	
	GF	15	BEVERAGE DISPENSER D/T	15 A	1			1428...	2013...			2	30 A	P-452 HOT WATER SYSTEM	16		
		17	P-452 HOT WATER SYSTEM	30 A	2					2013...	2013...				18		
		19				2013...	240 VA					1	20 A	C-107 RETHERMALIZER	20	GF	(3)
		21	SECURITY CAMERA POWER	20 A	1			600 VA	0 VA			1	0 A	SHUNT TRIP SPACE	22	ST	
(3)	GF	23	C-026 FRYER	20 A	1					972 VA	100 VA	1	15 A	C-400 COOK TIMER	24		
	ST	25	SHUNT TRIP SPACE	0 A	1	0 VA	500 VA					1	20 A	INTERIOR DIGITAL MENUBOARD	26		
		27	Spare	20 A	1			0 VA	500 VA			1	20 A	OCB SWITCH	28		
		29	DINING POS ENTRY 2	20 A	1					680 VA	1800...	1	20 A	L-045 WARMER	30	GF	
	IG	31	DRIVE THRU MONITORS	20 A	1	180 VA	360 VA					1	20 A	SAFE W/TOUCHSCREEN CONTROLS	32		
		33	RECIRCULATION PUMP	20 A	1			200 VA	1180...			1	20 A	DINING POS ENTRY 1	34	IG	
	IG	35	KIOSK POWER - FRONT COUNTER	20 A	1					200 VA	700 VA	1	20 A	AUTO FAUCET POWER	36		
		37	MAINTENANCE RECEPTACLE...	20 A	1	180 VA	0 VA					1	20 A	Spare	38		
		39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40		
		41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42		
					Total Load:	7993 VA		9461 VA		10646 VA							
					Total Amps:	67 A		81 A		91 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	22724 VA	100.00%	22724 VA		
Receptacle	2808 VA	100.00%	2808 VA	**Total Conn. Load:**	28100 VA
				Total Est. Demand:	28100 VA
				Total Conn. Current:	78 A
				Total Est. Demand Current:	78 A

Notes:

CIRCUIT BREAKER/MISC. ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE
IG - ISOLATED GROUND

Panel: B

Location:
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SERIES
Mains Type: M.L.O.
Mains Rating: 200 A
MCB Rating: N/A

Notes:

	NOTES	CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT	NOTES	
		1	DINING LTS	20 A	1	508 VA	1500...					1	20 A	EXTERIOR SIGNAGE	2		(2)
(2)		3	EXTERIOR SCONCE LTS.	20 A	1			216 VA	216 VA			1	20 A	UTILITY RECEPT	4	GFCI	
		5	KITCHEN/ BOH/ RESTROOM LTS	20 A	1					1252...	91 VA	1	20 A	EMERGENCY LTS INT/EXT, EXIT SIGNS	6		
		7	LTG - SHOW WINDOW	20 A	1	600 VA	500 VA					1	20 A	CLEARANCE BAR	8		
		9	LTG - SHOW WINDOW	20 A	1			600 VA	500 VA			1	20 A	TBCCB	10		
		11	LTG - COOLER & FREEZER	20 A	1					800 VA	500 VA	1	20 A	E1AN TBANS	12		(2)
(2)		13	PATIO LIGHTING	20 A	1	27 VA	0 VA					1	20 A	Spare	14		(2)
(2)		15	DIGITAL MENU BOARD/SPEAKER POST	20 A	1			360 VA	0 VA			1	20 A	Spare	16		
(2)		17	SPEAKER POST	20 A	1					500 VA	0 VA	1	20 A	Spare	18		
(2)		19	CANOPY LIGHTING	20 A	1	200 VA	0 VA					1	20 A	Spare	20		
(2)		21	LTG - PYLON SIGN	20 A	1			500 VA	0 VA			1	20 A	Spare	22		
(2)		23	CLEARANCE BAR	20 A	1					500 VA	0 VA	1	20 A	Spare	24		
(2)		25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26		
		27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28		
(2)		29	LTG - SITE LIGHTING	20 A	1					935 VA	0 VA	1	20 A	Spare	30		
(2)		31	EF-1	20 A	1	1120...	0 VA					1	20 A	Spare	32		
		33	EF-2	20 A	1			660 VA	1500...			1	20 A	PURPLE WALLWASH LIGHTS	34		
		35	Spare	20 A	1					0 VA	1500...	1	20 A	PURPLE WALLWASH LIGHTS	36		
		37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38		
		39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40		
		41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42		
					Total Load:	4456 VA		4552 VA		6078 VA							
					Total Amps:	37 A		38 A		51 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	830 VA	100.00%	830 VA		
Power	3360 VA	100.00%	3360 VA	**Total Conn. Load:**	15085 VA
Lighting	7699 VA	125.00%	9624 VA	**Total Est. Demand:**	17010 VA
HVAC	1780 VA	100.00%	1780 VA	**Total Conn. Current:**	42 A
Receptacle	1416 VA	100.00%	1416 VA	**Total Est. Demand Current:**	47 A

Notes:

CIRCUIT BREAKER/MISC. ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE
IG - ISOLATED GROUND

NOTE

PARKING LOT LIGHTING AND SIGNAGE SHALL PASS THROUGH TBCCB

NOTE TO CONTRACTORS

ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITION THAT DIFFERS FROM THAT SHOWN ON THESE PLANS SHALL BE REPORTED TO THE TENANT'S ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATION TO THE SCOPE OF WORK WHICH RESULTS FROM THE CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.

GENERAL NOTE:

FOR PARKING LOT (SITE) LIGHTS AND OUTSIDE SIGNS: PROVIDE (5) 1"C FROM PANEL "B" AND STUB OUT 10'-0" AWAY FROM THE BUILDING. VERIFY EXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY WITH LOCATION. VERIFY OUTDOOR VOLTAGE DROP FOR ALL PARKING LIGHTING (SITE) CIRCUITS.

KEY NOTES:

1. PROVIDE LOCK-ON BREAKER.
2. CIRCUITS TO BE WIRED THROUGH COMBINED CONTROL BOX CONTACTOR. SEE SHEETS 6.0 AND 6.1.
3. PROVIDE GFI BREAKER. CIRCUIT TO BE WIRED THROUGH TBANS. SEE SHEETS E7.0 AND E7.1.

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TACO BELL

109 Tuckaseegee Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
ELECTRICAL SCHEDULES

E2.1

PLOT DATE: 3/31/2022 12:48:58 PM

GENERAL NOTES & KEY NOTES - ELECTRICAL SCHEDULES NTS **A**

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COMMERCIAL KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT IDENTIFICATION			EQUIPMENT ELECTRICAL CHARACTERISTICS					EQUIPMENT CIRCUIT				EQUIPMENT DISCONNET					
TAG	TYPE	EQUIPMENT NAME	V/Ph - WATTS	FLA/RLA	MCA	TIME DELAY FUSE	INVERSE-TIME BREAKER	SETS	BRANCH CIRCUIT	WIRE TYPE	CONDUIT TYPE	TYPE	SIZE	NEMA	SUPPLIED BY	INSTALLED BY	NOTES
B-223	O	B-223 WATER HEATER IGNITION	120 V/1-744 VA	6.2	7.2	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
B-381	O	CO2 CARBON DIOXIDE SENSOR / WARNING	120 V/1-156 VA	1.0	1.3	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
C-026	KR	FRYER	120 V/1-972 VA	8.1	9.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	1,2
C-107	O	RETHERMALIZER	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	1,2
C-400	O	COOK TIMER	120 V/1-100 VA	0.3	0.4	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
DCL	O	DUAL COOK LINE	208 V/3-52000 VA	145	145	200	200	1	4#3/0 W/#6 G IN 2"C	CU	ST	DIRECT	200	J-BOX	ES	ES	8
E1AN	O	TBANS SHUNT PANEL	120 V/1-500 VA	6.3	7.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
F-040	O	OFFICE COMPUTER	120 V/1-300 VA	2.5	3.1	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-050	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-090	O	UPS	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-174	O	SAFE W/TOUCHSCREEN CONTROLS	120 V/1-360 VA	3.0	3.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
IR-01	O	IRRIGATION TIMER	120 V/1-500 VA	2.0	3.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
L-044	KR	WARMER R TO L	120 V/1-1800 VA	16.0	16.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
L-045	KR	WARMER R TO L	120 V/1-1800 VA	16.0	16.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
N-043	KR	POWER SOAK	208 V/2-4740 VA	11.4	14.25	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	J-BOX	ES	ES	8
N-044	O	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
P-417	O	TIMER - 8 CHANNEL	120 V/1-180 VA	0.5	0.7	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
P-452	KR	HOT WATER SYSTEM	208 V/2-4026 VA	19.6	24.5	30	30	1	#10 W/#10 G IN 3/4"C	CU	ST	C&P	30	6-30	ES	ES	2
R-009	KM	R-009 FULL HEIGHT FREEZER	120 V/1-1140 VA	9.5	11.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-204	O	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-284	KM	BEVERAGE DISPENSER S/S	120 V/1-1116 VA	9.3	12	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-285	KM	S-284 BEVERAGE DISPENSER (D/T)	120 V/1-1428 VA	11.9	14.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-289	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-200 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-513	KM	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
S-540	O	PEPSI BOOSTER TANK	120 V/1-564 VA	4.7	5.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-544	O	ICED TEA	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-546	O	BREWER	120 V/1-480 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-550	O	BAG IN BOX RACK	120 V/1-564 VA	4.7	5.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-570	KM	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
S-739	KM	S-739 FROZEN BEVERAGE DISPENSER	208 V/2-3120 VA	31.6	39.5	30	30	1	#10 W/#10 G IN 3/4"C	CU	ST	C&P	30	6-30	ES	ES	2
SCL	O	SINGLE COOK LINE (OPTIONAL)	208 V/3-28800 VA	80	80	125	125	1	4#1 W/#6 G IN 2"C	CU	ST	DIRECT	200	J-BOX	ES	ES	8
U-011	O	BASE STATION - D/T COMM. SYSTEM	120 V/1-180 VA	2	.24	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-050	O	CREDIT CARD SATELLITE ROUTER JUNCTION		1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-061	O	RECEIPT PRINTER		1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-070	O	CREDIT CARD READER	120 V/1-180 VA	1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
W-XX1	KM	W-075-2 WALK-IN FREEZER	208 V/3-0 VA	11.6	14.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	J-BOX	ES	ES	2

TYPE: H-HEATING, C-COOLING, KR-KITCHEN RESISTIVE, KM-KITCHEN MOTOR, WH-WATER HEATER, OM-OTHER MOTORS, O-OTHER
DISCONNECT TYPE: HP-HP RATED SWITCH, C&P-CORD & PLUG, LC&P-LOCKING CORD & PLUG, F-FUSED, NF-NON-FUSED, MCCB-MOLDED CASE CIRCUIT BREAKER
SUPPLIED/INSTALLED BY: EC-ELECTRICAL CONTRACTOR, HC-HVAC CONTRACTOR, PC-PLUMBING CONTRACTOR, ES-EQUIPMENT SUPPLIER
VOLTAGE DROP CALCULATION FORMULAS COURTESY OF COOPER BUSSMANN.

NOTES: 1 - REQUIRES SHUNT TRIP PROTECTION
2 - CORD & PLUG SUPPLIED AND INSTALLED BY ES. EC SHALL PROVIDE RECEPTACLE.
3 - CORD & PLUG SUPPLIED AND INSTALLED BY ES. RECEPTACLE SUPPLIED BY ES AND INSTALLED BY EC.
4 - CORD, PLUG & RECEPTACLE SUPPLIED AND INSTALLED BY EC.
5 - SINGLE PHASE, THREE WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
6 - THREE PHASE, FOUR WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
7 - OUTLETS SUPPLIED AND INSTALLED BY ES. CONDUIT & WIRING PROVIDED BY EC.
8 - HARDWIRED CONNECTION BY E.C.

REFER TO ARCHITECTURAL EQUIPMENT SCHEDULE FOR ALL KITCHEN EQUIPMENT AND FINAL COORDINATION

Panel: D

Location:
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: SERIES
Mains Type: M.L.O.
Mains Rating: 400 A
MCB Rating: N/A

Notes:

NOTES	CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT	NOTES
GF	1	CARBONATOR	15 A	1	276 VA	0 VA					1	20 A	Spare	2	
GF	3	B-223 WATER HEATER IGNITION	20 A	1			744 VA	1000...			1	20 A	ALTERNATE PAYMENT ROUTER BOX...	4	
	5	OC SWITCHED RECEPTACLE	20 A	1					180 VA	680 VA	1	20 A	IRRIGATION TIMER AND RECEPTACLE	6	GF
GF	7	S-540 PEPSI BOOSTER TANK	20 A	1	564 VA	500 VA					1	20 A	MUSIC SYSTEM J-BOX AND...	8	
	9	RECEPTACLES - ROOF	20 A	1			540 VA	1560...			2	30 A	S-739 FROZEN BEV. DISP.	10	GF
	11	CONVENIENCE RECEPTACLES	20 A	1					360 VA	1560...				12	
	13	GENERAL PURPOSE RECEPTACLES	20 A	1	1440...	1600...					2	20 A	ICE MAKER CONDENSER D/T	14	
GF	15	DRINK FOUNTAIN - S-284 AND R-XX1	20 A	1			1254...	1600...						16	
	17	ICE MAKER CONDENSER	20 A	2					1600...	1600...	2	20 A	ICE MAKER CONDENSER	18	
	19				1600...	1600...								20	
GF	21	S-550 BAG IN BOX RACK	20 A	1			564 VA	2370...			2	20 A	POWER SOAK	22	GF
	23	B-381 AMPROBE CO2 MONITOR	20 A	1					156 VA	2370...				24	
	25	RTU-1	50 A	3	5040...	500 VA					1	20 A	MUSIC SYSTEM (MUZAK)	26	
	27						5040...	1200...			3	15 A	WALK-IN COOLER	28	
	29								5040...	1200...				30	
	31	RTU-2	90 A	3	5040...	1200...								32	
	33						5040...	1393...			3	20 A	WALK-IN FREEZER	34	
	35								5040...	1393...				36	
	37	Spare	20 A	1	0 VA	1393...								38	
	39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40	
	41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42	
				Total Load:	20753 VA		22305 VA		21179 VA						
				Total Amps:	173 A		186 A		177 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	4928 VA	100.00%	4928 VA		
HVAC	30240 VA	100.00%	30240 VA	**Total Conn. Load:**	64237 VA
Receptacle	2300 VA	100.00%	2300 VA	**Total Est. Demand:**	60951 VA
				Total Conn. Current:	178 A
				Total Est. Demand Current:	169 A

Notes:

CIRCUIT BREAKER/MISC. ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE
IG - ISOLATED GROUND

GPD Engineering and Architecture Professional Corporation - C3879
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	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
	04.01.22	Issued for Bid

CONTRACT DATE: 12.08.21
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314703
STORE NUMBER: 454826
PA/PM: JW
DRAWN BY.: AJR
JOB NO.: 2020088.07

TACO BELL

109 Tuckaseegee Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
ELECTRICAL SCHEDULES

E2.2

PLOT DATE: 3/31/2022 12:48:59 PM

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CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

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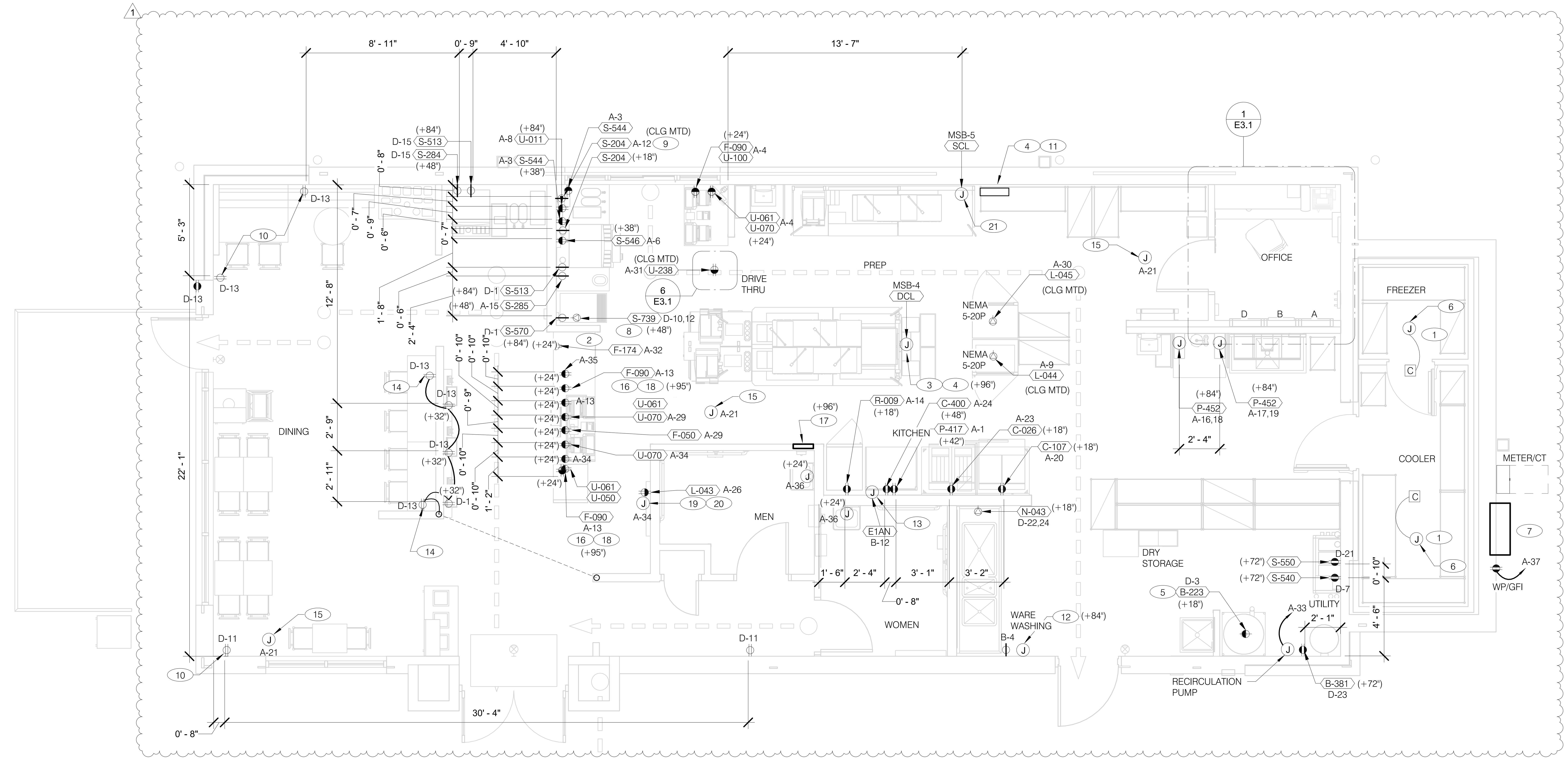


	DATE	REMARKS
	01.14.22	Issued for Permit
	03.17.22	Issued for RSCS Bid
1	03.29.22	Building Comments
	04.01.22	Issued for Bid

CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
ELECTRICAL POWER PLAN

E3.0

PLOT DATE: 3/31/2022 12:49:03 PM

RECEPTACLE NOTE:

ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER RESISTANT.

NOTE

5mA GFCI BREAKERS MUST BE USED WHERE OUTLETS REQUIRING GFCI PROTECTION ARE NOT ACCESSIBLE FOR COMPLIANCE WITH NEC 210.8. WHERE GFCI PROTECTION AND SHUNT TRIP IS REQUIRED, THE CIRCUIT SHALL HAVE A GFCI BREAKER AND PASS THROUGH THE TBANS PANEL.REFER TO DETAILS IN E7.0 AND E7.1.

POWER PLAN 1/4" = 1'-0" A

GENERAL NOTES - ELECTRICAL POWER PLAN NTS C

A. ALL DIMENSIONS TO J-BOXES ARE FROM FACE OF STUD TO CENTER OF BOX, U.O.N.

B. ALL CONDUIT DROPS ARE INSIDE WALLS U.O.N. SEE ARCH. DWGS FOR WALL DIMS.

C. ALL J-BOX CIRCUITS, CONDUITS, FIXTURES, ETC. SHALL BE AS INDICATED ON THE ELECT. DWGS AND SPECS.

D. CONTRACTOR SHALL VERIFY UNDERGROUND CONDUIT LOCATIONS PRIOR TO POURING SLAB.

E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ELECT. ROUGH-INS WITH INFO PROVIDED ON THE ARCH. AND STRUCT. DWGS AND THE EQUIPMENT ACTUALLY SUPPLIED, AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS HEREIN.

F. LOCATIONS OF ALL OUTLETS MAY BE RELOCATED TO NEAREST STUD. DO NOT CUT INTO STUDS.

G. FOR EXACT LOCATIONS OF KITCHEN & MECHANICAL EQUIPMENT AND POINTS OF CONNECTION, REFER TO KITCHEN & MECHANICAL EQUIPMENT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.

H. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY NEC.

I. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER, DISCONNECT SWITCH, STARTER AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED.

J. ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE NEMA-1 FOR INTERIOR AND NEMA 3R FOR EXTERIOR. IN COASTAL REGIONS THE STANDARD FOR OUTSIDE SHALL BE NEMA-4X.

K. PER SECTION 210.8 NEC 2020, ALL SINGLE PHASE RECEPTACLE RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GOUND OR LESS, 100 AMPERERS OR LESS.

L. DO NOT MEASURE/LOCATE OUTLETS ON DRAWINGS. USE DIMENSIONS PROVIDED.

M. CONDUIT MAY RUN UNDER SLAB AT G.C.'S DISCRETION.

N. E.C. SHALL PROVIDE A PREPRINTED SELF-ADHESIVE LABEL ON ALL POS RECEPTACLES STATING "POS USE ONLY".

O. PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILING, AND FLOORS. DO NOT USE CAULKS OR EXPANSION FOAM FOR SEALANT.

P. ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE. ALL WIRE SHALL BE CONCEALED O.N.U.

Q. FOR ALL CIRCUITS NOT SHOWN ON EQUIPMENT SCHEDULE, CONTRACTOR SHALL PROVIDE CONDUCTOR AND CONDUIT SIZES AS SHOWN ON BRANCH CIRCUIT WIRING SCHEDULE SHOWN ON E2.2. IF SIZES DIFFER FROM N.E.C., THE MORE STRINGENT (LARGER) SIZE SHALL BE PROVIDED.

R. OUTLETS WITHIN FOH TO BE AT 18" AFF FOR ADA ACCESS.

S. CONDUITS NEAR DRIVE THRU WINDOW AREA TO BE ROUTED FROM ABOVE CEILING OR STUBBED UP FROM UNDER SLAB SO AS TO NOT INTERFERE WITH WINDOW FRAMING.

KEY NOTES - ELECTRICAL POWER PLAN NTS B

1. REFER TO ROOF PLAN.
2. INSTALL IN CONDUIT RUNNING ON SURFACE OF KITCHEN SIDE OF CABINETRY REAR WALL.
3. CONNECT PRODUCTION LINE CIRCUIT BREAKER PANEL VIA UTILITY CHASE IN CEILING TO A 3 POLE, 200 AMP CIRCUIT BREAKER IN MAIN SWITCHBOARD. SEE SHEET E2.0. VERIFY ALL REQUIREMENTS WITH ACTUAL EQUIPMENT SPECIFIED. THE MANUFACTURER WILL FULLY PRE-WIRE THE COMPLETE MAPS LINE AT THE FACTORY. THE UNITS WILL THEN BE PULLED APART FOR SHIPPING PURPOSES. ALL CONNECTION POINTS WILL BE MARKED. THE CONDUIT RUNS WILL BE COILED UP FOR FIELD INSTALLATION. SOME ELECTRICAL COMPONENTS MAY BE REMOVED FOR EASE OF DISASSEMBLING THE LINE-UP. THE ELECTRICAL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR MAKING THE PROPER FIELD CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE MANUFACTURER PROVIDED BREAKER PANEL BOX. IN ADDITION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY SPLICE POINTS AND/OR JUNCTION BOXES THAT NEED TO BE RECONNECTED. SOME ELECTRICAL COMPONENT ASSEMBLY MAY ALSO BE REQUIRED.
4. EQUIPMENT CABINET.
5. LOCATED INSIDE SHELL OF HEATER.
6. INSTALL CONTROL CABLE FROM FREEZER/COOLER FAN COIL TO ROOF MOUNTED CONDENSOR.
7. LOCATE SWITCHGEAR PER GUIDELINES ON SHEET A4.1.
8. PROVIDE BOOST TRANSFORMER (208V, 1-PHASE IN, 240V, 1-PHASE OUT) FOR FROZEN BEVERAGE DISPENSER.
9. CEILING MOUNTED FOR WALL MOUNTED HME. SEE 7/E3.1
10. PROVIDE TAMPER RESISTANT DUPLEX RECEPTACLE WITH TWO (2) USB CHARGING PORTS.
11. VERIFY PANEL LOCATION OF COOK LINE WITH TACO BELL CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
12. PROVIDE J-BOX FOR POWER SOAK INDICATOR LIGHT. (OPTIONAL)
13. VERIFY LOCATION OF JUNCTION BOX WITH CONSTRUCTION MANAGER.
14. E.C. SHALL PROVIDE, INSTALL AND WIRE A DUPLEX RECEPTACLE WITH (2) USB POWER PORTS IN SINGLE-GANG BOX PROVIDED WITH TABLE, AT EACH END OF THE TABLE. PROVIDE GALVANIZED COVER PLATE TO MATCH BOX.
15. PROVIDE POWER FOR SECURITY CAMERAS. COORDINATE WITH CAMERA VENDOR, SECURITY, AND CONSTRUCTION SUPERVISOR PRIOR TO ROUGH-IN.
16. QUAD RECEPTACLE FOR FUTURE DIGITAL MENUBOARD. TYPICAL OF 2.
17. 2-GANG FLUSH BOX WITH DEAD-FRONT GFCI DEVICES. MOUNT CENTER OF BOX AT 48" A.F.F.. REFER TO E7.0.
18. EC / GC TO INSTALL A TOTAL OF (2) QUAD OUTLETS IN (2) QUAD BOXES ON FRONT OF VALANCE WALL AS SHOWN. OUTLETS TO BE STRAIGHT BLADE. OUTLETS TO BE ON AN ISOLATED/DEDICATED GROUNDED CIRCUIT THAT IS NOT CONNECTED TO ANY RESTAURANT POWER MANAGEMENT SYSTEM.
19. EC / GC TO INSTALL (1) OPEN DATA JUNCTION BOX (JB) IN VALANCE WALL. CONDUIT TERMINATED ABOVE CEILING TO HAVE BUSHING.
20. EC / GC TO RUN (3) ORANGE CAT 6 LINES FROM NETWORK SWITCH TO DATA JUNCTION BOX. CAT6 LINES SHOULD HAVE BOTH ENDS PROPERLY TERMINATED WITH RJ-45 CONNECTORS. EXCESS CAT6 CABLE TO BE COILED INTO SERVICE LOOPS AT EACH END AND LEFT ACCESSIBLE FOR DMB INSTALL TEAM. CAT6 TO BE RUN IN ACCORDANCE WITH ALL LOCAL MUNICIPALITY CODE REQUIREMENTS.
21. CONNECT PRODUCTION LINE CIRCUIT BREAKER PANEL VIA UTILITY CHASE IN CEILING TO A 3 POLE, 125 AMP CIRCUIT BREAKER IN MAIN SWITCHBOARD. SEE SHEET E2.0. VERIFY ALL REQUIREMENTS WITH ACTUAL EQUIPMENT SPECIFIED. THE MANUFACTURER WILL FULLY PRE-WIRE THE COMPLETE MAPS LINE AT THE FACTORY. THE UNITS WILL THEN BE PULLED APART FOR SHIPPING PURPOSES. ALL CONNECTION POINTS WILL BE MARKED. THE CONDUIT RUNS WILL BE COILED UP FOR FIELD INSTALLATION. SOME ELECTRICAL COMPONENTS MAY BE REMOVED FOR EASE OF DISASSEMBLING THE LINE-UP. THE ELECTRICAL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR MAKING THE PROPER FIELD CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE MANUFACTURER PROVIDED BREAKER PANEL BOX. IN ADDITION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY SPLICE POINTS AND/OR JUNCTION BOXES THAT NEED TO BE RECONNECTED. SOME ELECTRICAL COMPONENT ASSEMBLY MAY ALSO BE REQUIRED.

THE DEDICATED POS POWER CIRCUIT REQUIRES AN ISOLATED GROUND IN ADDITION TO THE NORMAL COMMON BUILDING GROUND. THE ISOLATED GROUND WIRE SERVES TWO PURPOSES:
* AS A SAFETY PATH TO GROUND.
* AS A ZERO REFERENCE POINT FOR ALL POS DIGITAL LOGIC.

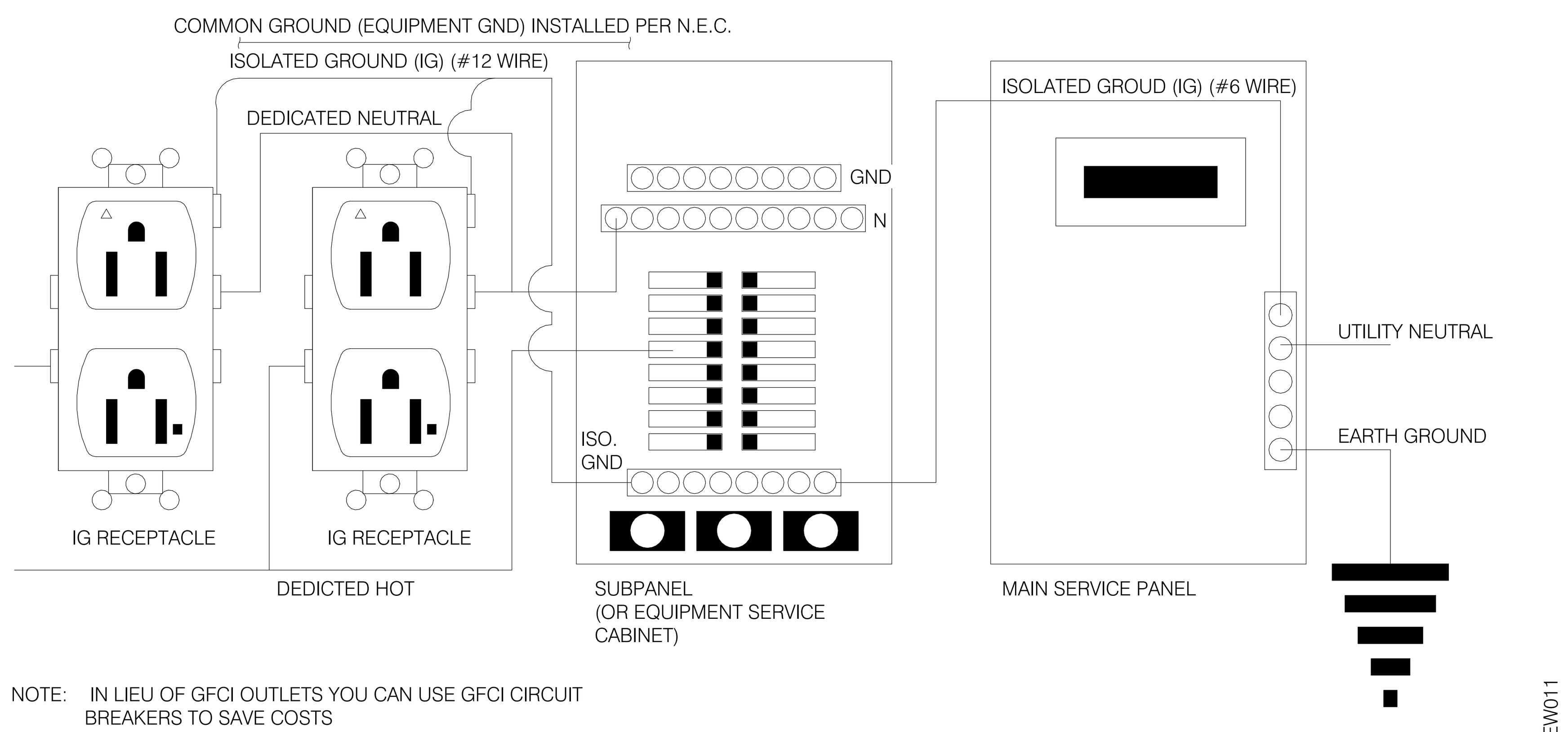
THE GROUND MUST EXHIBIT THE LOWEST POSSIBLE IMPEDANCE TO MINIMIZE VOLTAGE TRANSIENTS AND NOISE.

BE SURE TO:

* USE AN INSULATED CONDUCTOR FOR THE ISOLATED GROUND WIRE.
* RUN THE ISOLATED GROUND WIRE THROUGH THE SAME CONDUIT AS THE HOT AND NEUTRAL WIRES.
* INSTALL ONLY ISOLATED GROUND (IG) TYPE RECEPTACLES.
* CONNECT THE ISOLATED GROUND WIRE TO BUILDING GROUND ONLY AT THE MAIN SERVICE PANEL.
* VERIFY THAT IG RECEPTACLES PRE-WIRED IN OWNER SUPPLIED EQUIPMENT HAVE A TRUE ISOLATED GROUND THAT CAN BE TRACED BACK TO THE BUILDING GROUND AT THE MAIN SERVICE PANEL.

DO NOT CONNECT THE ISOLATED GROUND WIRE TO THE CONDUIT, JUNCTION BOXES, THE FRAME ON A SUBPANEL, OR ANY OTHER METAL SURFACE.

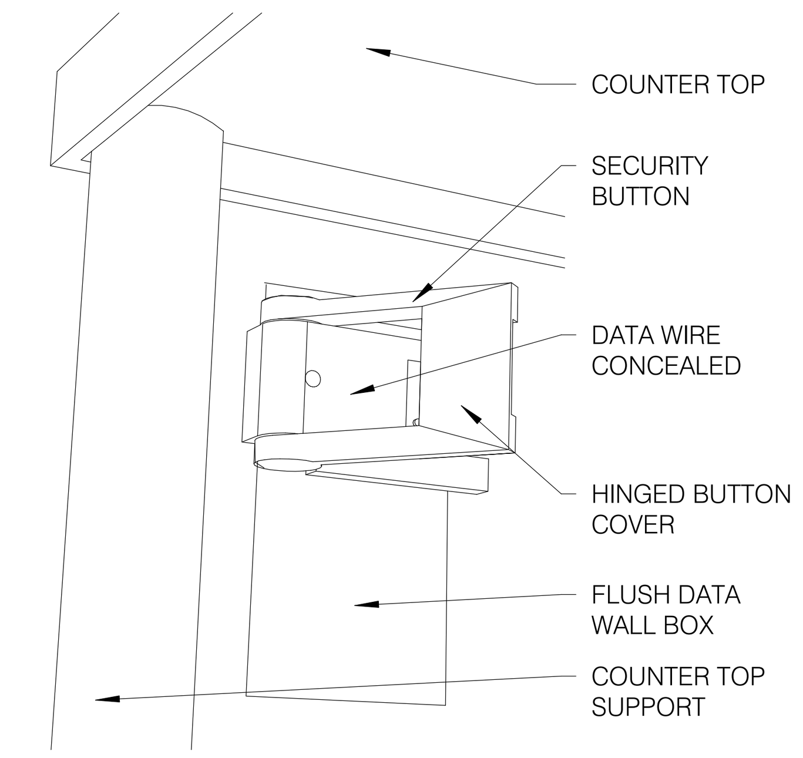
DEDICATED CIRCUITS: DEDICATED CIRCUITS REQUIRE A DEDICATED HOT AND A DEDICATED NEUTRAL THAT ARE NOT SHARED WITH ANY OTHER CIRCUITS. IG RECEPTACLES MUST BE "PHASE ALIGNED" WITH THE "B" PHASE OF BUILDING SUBPANEL "A".



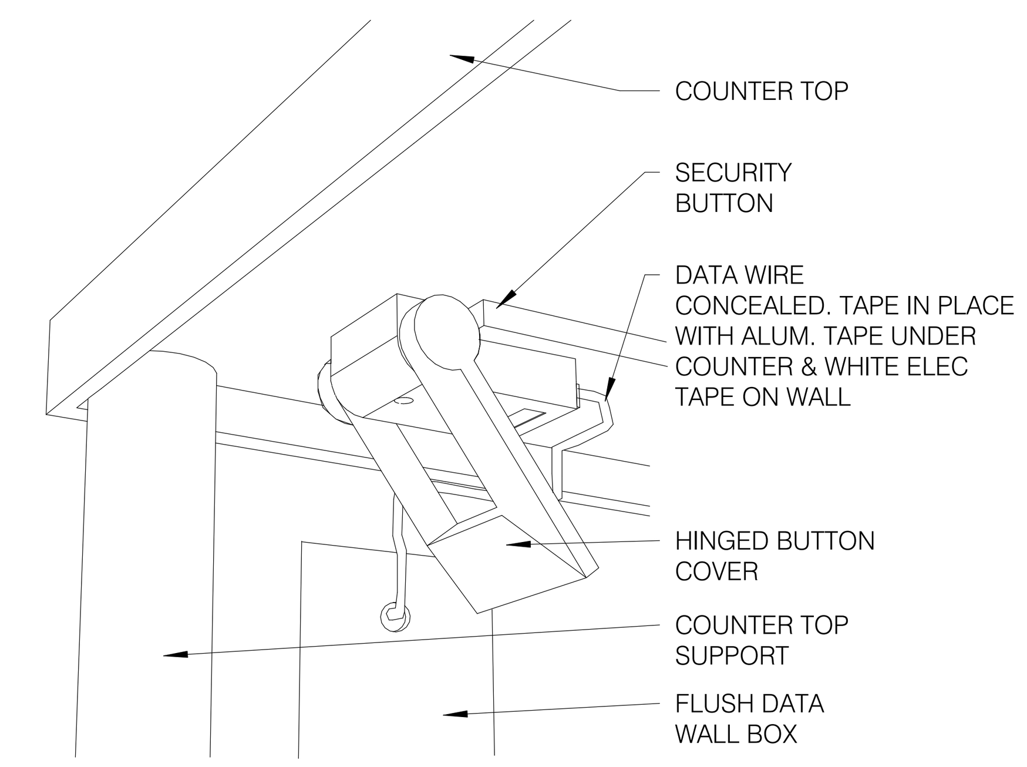
NOTE: IN LIEU OF GFCI OUTLETS YOU CAN USE GFCI CIRCUIT BREAKERS TO SAVE COSTS

YEW011

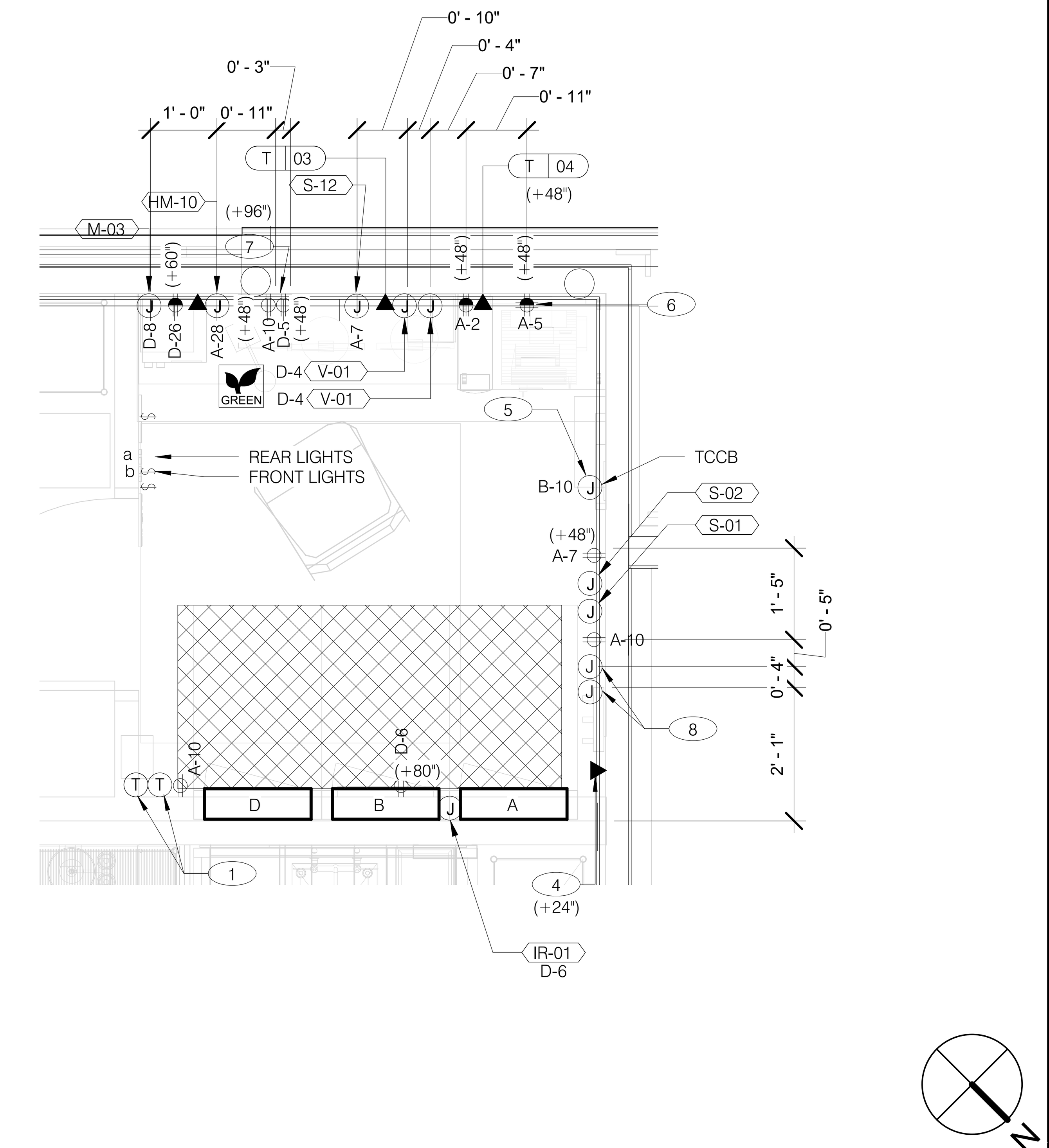
P.O.S. ISOLATED GROUND SYSTEM NTS 6



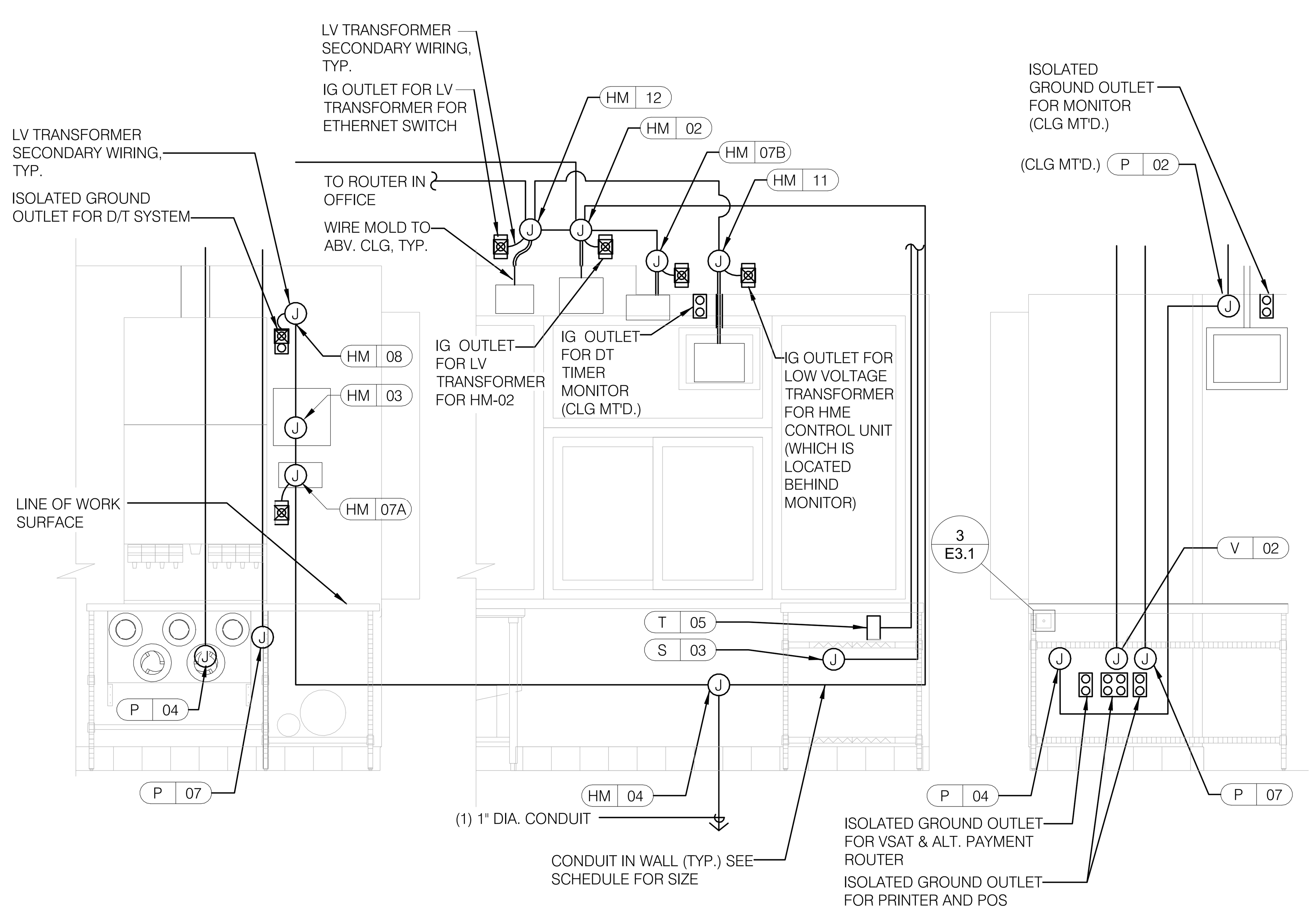
SECURITY BUTTON ON WALL NTS 3



SECURITY BUTTON UNDER COUNTER NTS 4



ENLARGED POWER AND COMMUNICATIONS PLAN (OFFICE) 1/2" = 1'-0" 1



REFER TO COMMUNICATIONS SCHEDULE ON SHEET E5.0 FOR EQUIPMENT DESCRIPTIONS/MOUNTING HTS.

ENLARGED INTERIOR ELEVATION (D/T WINDOW) NTS 7

NOTE

TBCCB AND TBANS REQURE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR CALL 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0

1. THERMOSTATS CONTROLS.
2. NOT USED.
3. NOT USED.
4. PHONE JACK FOR MODEM.
5. LOCATION OF TBCCB COMBINED CONTROL BOX. COORDINATE EXACT LOCATION IN THE FIELD. CONSIDER OPERATOR NEED TO ACCESS SWITCHES ON THE FRONT OF THE CONTROL BOX AND BUILT IN OCCUPANCY SENSOR FOR MANAGERS OFFICE.
6. DATA JACK FOR TECH-IN-A-BOX WITH 2 PORTS.
7. ROUTE CIRCUIT THROUGH TBCCB OCCUPANCY SENSOR FOR CONTROLLED RECEPTACLE.
8. PROVIDE BACK-BOX AND CONDUIT WITH PULLSTRING FOR REMOTE TEST STATIONS PROVIDED BY MECHANICAL. COORDINATE REQUIREMENTS WITH MECHANICAL.

KEY NOTES - ELECTRICAL ENLARGED DETAILS NTS 2

GPD Engineering and Architecture Professional Corporation - C3879

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CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2020088.07

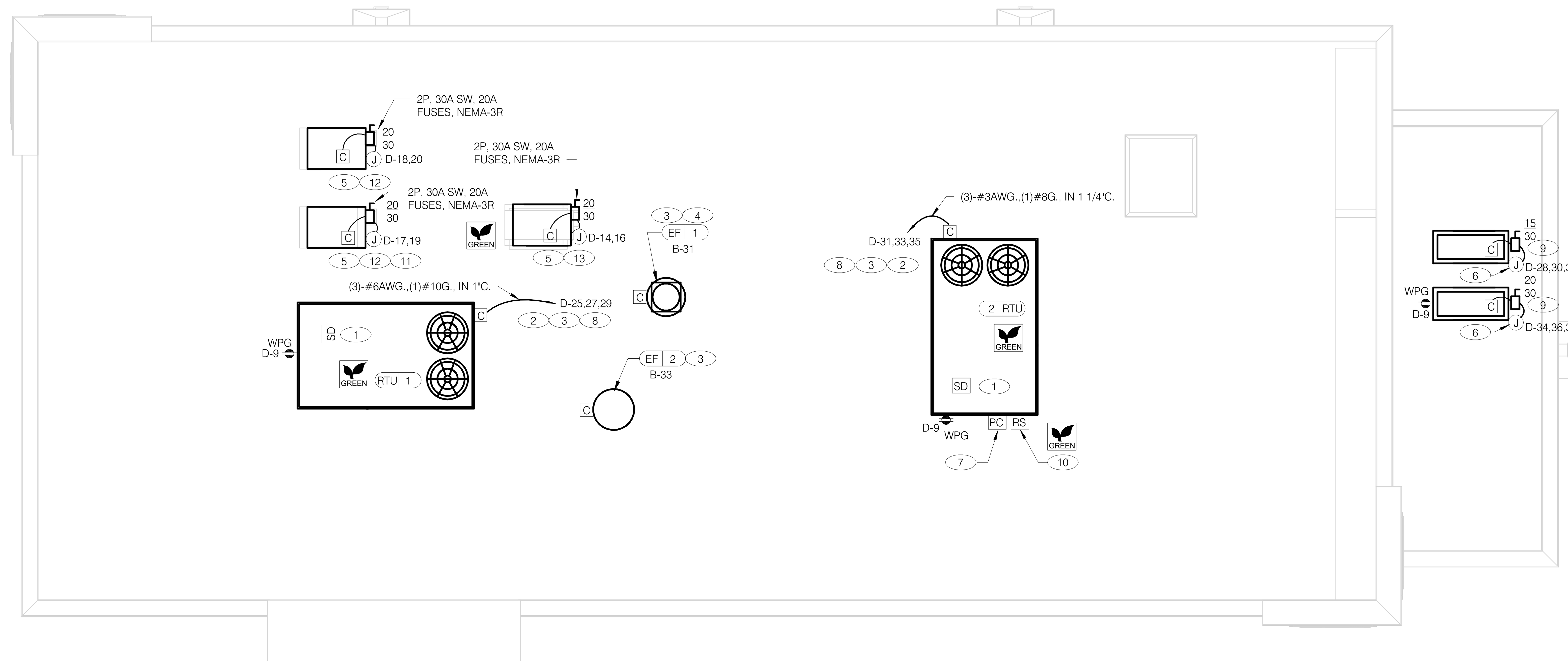
TACO BELL

109 Tuckaseegee Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
ENLARGED POWER PLAN AND DETAILS

E3.1

PLOT DATE: 3/31/2022 12:49:04 PM



POWER ROOF PLAN 1/4" = 1'-0" A

GENERAL NOTES - ELECTRICAL POWER ROOF PLAN NTS C

A. NO CONDUIT SHALL BE FASTENED DIRECTLY TO OR THROUGH ROOFING MEMBRANE.

B. ALL CUTS IN ROOFING MEMBRANE SHALL BE MINIMAL AND IN ACCORDANCE WITH ROOFING MFR'S AND INSTALLER'S REQ'S.

C. REFER TO MECH. DWGS FOR MECHANICAL EQUIPMENT ELECTRICAL REQ'S.

D. ALL EXPOSED ELECTRICAL CONDUITS SHALL PENETRATE ROOF MEMBRANE AT PIPE HOODS U.O.N.

E. REFER TO ELECT. EQUIP. SCHEDULE AND ELECT. ROUGH-IN PLAN.

F. ALL CONDUITS FROM EXHAUST FANS SHALL BE ROUTED INSIDE OF CURB.

G. ALL CONDUITS TO AND FROM RTU SHALL BE ROUTED INSIDE OF RTU CURB. COORDINATE WITH RTU MFR RECOMMENDATIONS.

H. REFER TO GENERAL NOTES SHEET E2.0 FOR IMPORTANT INFORMATION.

I. ALL WIRING AND CONDUITS SHALL BE CONCEALED. NO CONDUITS PERMITTED TO RUN EXPOSED ACROSS ROOF DECK. ROUTE ALL CONDUITS THROUGH EQUIPMENT ROOF CURBS OR ARCHITECT SPECIFIED ROOF PENETRATIONS.

J. ARMOR CABLE (BX) IS ONLY TO BE ALLOWED WHERE ACCEPTABLE BY AUTHORITY HAVING JURISDICTION.

KEY NOTES - ELECTRICAL POWER ROOF PLAN NTS B

1. MECHANICAL CONTRACTOR SHALL PROVIDE CONNECTIONS BETWEEN RTU FACTORY SMOKE DETECTORS AND REMOTE ENNUNCIATOR, TEST AND RESET DEVICE IN MANAGER OFFICE. ELECTRICAL CONTRACTOR SHALL PROVIDE ANY NECESSARY CONDUITS FOR LOW VOLTAGE WIRING.
2. SPECIFIED RTU IS SUPPLIED WITH UNPOWERED, WEATHERPROOF GFCI CONVIENENCE OUTLET AND FACTORY INSTALLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURES AND ACCESS THRU SWINGING DOOR.
3. POWER AND CONTROL IN FLEXIBLE WATERPROOF CONDUIT (LFMC CONDUIT) TO ENTER FROM SIDE OF THE CURB AND UP TO FACTORY PROVIDED DISCONNECT SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
4. CONNECT TO APPROPRIATE TERMINALS OF TBCCB CONTROL BOX. SEE E6.1 FOR DETAILS.
5. 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE ICE MACHINE. MAKE CONNECTION TO ICE MACHINE AND CONDENSING UNIT.
6. REFER TO POWER PLAN FOR CONTINUATION TO COOLER / FREEZER.
7. CONNECT TO APPROPRIATE PHOTOCELL TERMINALS OF TBCCB CONTROL BOX. SEE E6.1 FOR DETAILS.
8. RTU'S SHALL BE PROVIDED WITH BUILT-IN DISCONNECT AND SINGLE POINT WIRING.
9. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER TYPE, STARTER, DISCONNECT SWITCH, AND FUSE SIZE (IF REQUIRED) WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND FURNISH AND INSTALL EVERYTHING AS REQUIRED.
10. RAIN SENSOR. → GREEN
11. PIPE HOOD, SEE 9/A6.0
12. ELECTRICAL CONTRACTOR SHALL MAKE ALL ELEC. CONNECTIONS INCLUDING ALL NECESSARY INTERCONNECTIONS BETWEEN THE COMPRESSOR ON THE ROOF & THE EVAPORATOR IN THE ICE MACHINE AS REQ'D. REFER TO THE MFR'S SHOP DWGS FOR EXACT INSTALL. & INTERCONNECTION RQMTS, PRIOR TO ROUGH-IN INSTALL.
13. 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE FROZEN BEVERAGE MACHINE. MAKE CONNECTION TO BEVERAGE MACHINE AND ASSOCIATED CONDENSING UNIT.

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DATE	REMARKS
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CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseegee Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

ELECTRICAL POWER ROOF PLAN

E3.2

PLOT DATE: 3/31/2022 12:49:05 PM

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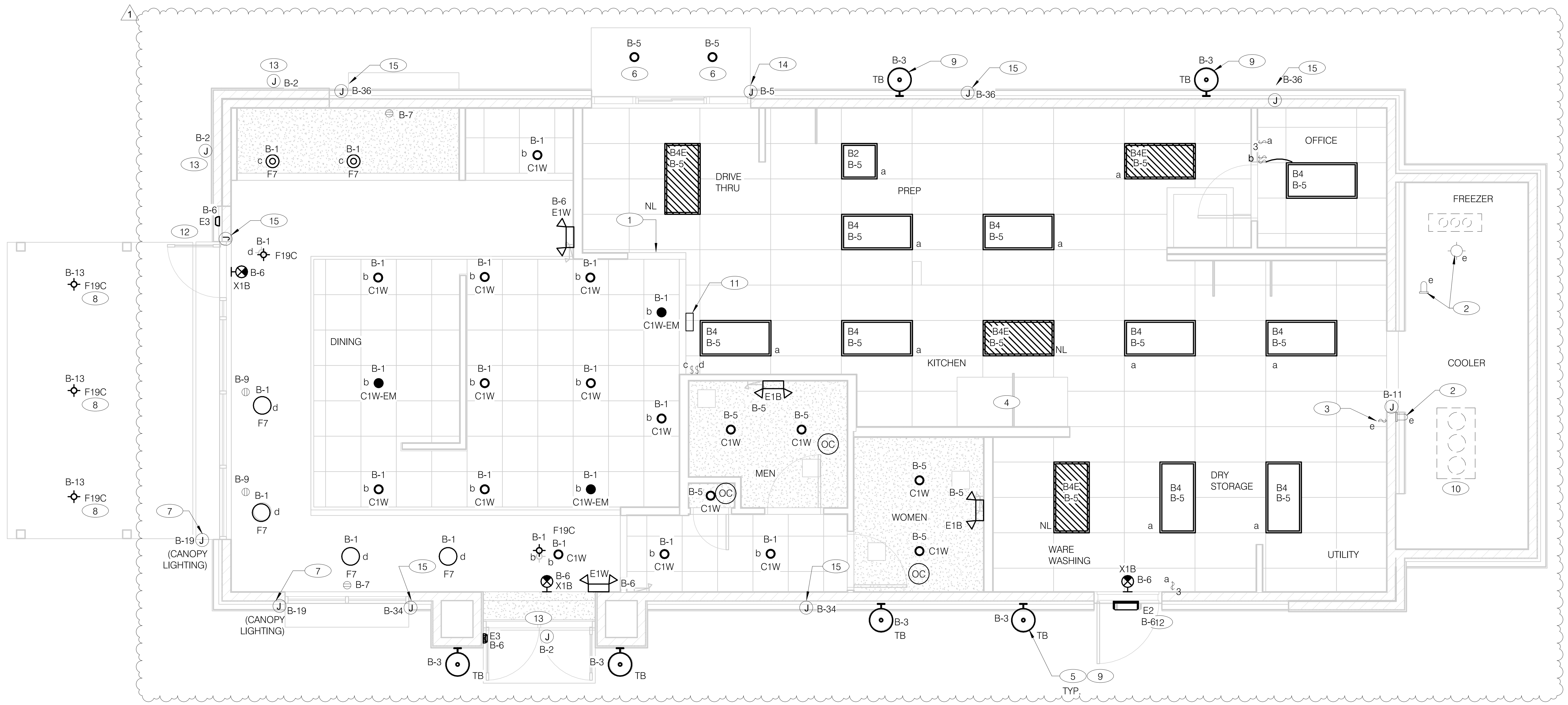

GENERAL NOTES:
A. CONFIRM LIGHTING FIXTURE QUANTITIES WITH SUPPLIER.
B. EMERGENCY AND NORMAL LIGHTING MARKED WITH "NL" SUBSCRIPT SHALL OPERATE CONTINUOUSLY. PROVIDE UNSWITCHED HOT TO NORMAL AND EMERGENCY BALLAST.
C. EMERGENCY LIGHTING NOT MARKED WITH "NL" SUBSCRIPT SHALL OPERATE UNDER CONTROL OF LIGHTING SWITCH AS INDICATED. PROVIDE UNSWITCHED CONSTANT HOT TO EMERGENCY BALLAST AND SWITCHED HOT TO NORMAL BALLAST.
D. ALL CONDUITS ENTERING OR LEAVING COOLER/FREEZER SHALL BE PROVIDED WITH SEAL-OFF FITTING WITH COMPOUND PER NEC 300-(7a).
E. ALL INTERIOR LIGHTING CIRCUITS TO BE WIRED THROUGH TBCCB . SEE E6.0 AND E6.1.
F. CONTRACTOR TO FIELD VERIFY CEILING TYPE AND PROVIDE PROPER MOUNTING HARDWARE.
G. ALL FIXTURES SUPPLIED WITH LAMPS.
H. ALL EXTERIOR NON-EMERGENCY LIGHT FIXTURES, BUILDING SIGNS, AND EXTERIOR SIGNS SHALL BE CONTROLLED THROUGH PHOTOCELL AND LIGHTING CONTROL RELAYS. SEE E6.0 AND E6.1 FOR ADDITIONAL DETAILS.

ELECTRICAL LIGHTING PLAN 1/4" = 1'-0" **A**

NO.	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP #/TYPE	BALLAST TYPE	ELECTRICAL DATA	REMARKS
A	LSI INDUSTRIES	MRM-LED-12L-SIL-FT-40-70CRI-IL	LED POLE LIGHT		LED		120 V/1-187 VA	-
B	LSI INDUSTRIES	MRM-LED-24L-SIL-FT-40-70CRI	LED POLE LIGHT	22' LIGHT POLE	LED	NA	120 V/1-187 VA	-
B2	ABB	FLP22-D53W40	2X2 LED TROFFER		LED		120 V/1-45 VA	-
B4	ABB	FLP24-D53W40	2X4 LED TROFFER		LED		120 V/1-45 VA	-
B4E	ABB	FLP24-D53W40-EM	2X4 LED TROFFER		LED		120 V/1-45 VA	PROVIDE 90 MIN. BACK UP BATTERY
C1W	MAXLITE	B6IC-AT-W- LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING		LED		120 V/1-14 VA	-
C1W-EM	MAXLITE	B6IC-AT-W- LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING		LED		120 V/1-14 VA	PROVIDE 90 MIN. BACK UP BATTERY
E1B	ELITE	ELM-809-B	EMERGENCY LIGHT FROG EYE - BLACK	WALL, TOP @ 9'-4" U.O.N.	-	EM	120 V/1-12 VA	-
E1W	ELITE	ELM-809-W	EMERGENCY LIGHT FROG EYE - WHITE	WALL, TOP @ 9'-4" U.O.N.	-	EM	120 V/1-12 VA	-
E2	ELITE	ELM-807-SDT-BZ	CAMRAY LED EM WALL MNT, DRK BRNZ, CLD WEATHER	UNIVERSAL	-	EM	120 V/1-16 VA	-
E3	LITHONIA	AFF-PEL-DDBTXD-UVOLT-LTP-SDR T-WT-CW	SELF-POWERED EMERGENCY WALLPACK W/ PHOTOCELL	8'-6"	LED	EM	120 V/1-20 VA	
F7	HI-LITES	H24212-96-CB15-20WLBL-6OP	12" GALVANIZED PENDANT WITH BLACK CORD AND CANOPY MED BASE SOCKET	PENDANT, 6'-0" A.F.F.	1/LED 10A19D0D27K	NA		-
F19C	SPECTRUM LIGHTING	SPCO304INC-MWL(25W)PAR20-CM-180"-MB	LED PENDANT - 3"		1/LED LR20/40/27K/975/BK		120 V/1-9 VA	-
TB	ACCUSERV	05247-051/052	WALL SCONCE, CUSTOM DARK BRONZE FINISH	SEE EXTERIOR ELEVATIONS	18W PAR38 LED		120 V/1-36 VA- 0 V/1-0 VA	
X1B	LIGHTALARMS	GRANNRB	LED UNIVERSAL MNTG THERMOPLASTIC EXIT, RED LETTERS, BLACK HSNG	UNIVERSAL	-/LED	EM	120 V/1-3 VA	-

1. PRE-FABRICATED & PRE-FINISHED SOFFIT. REFER TO A7.1 FOR SPECIFICS. (OPTIONAL).
2. FOR LIGHTING FIXTURES, CONDUIT, CONDUCTORS AND INSTALLATION RESPONSIBILITIES, REFER TO SCOPE OF WORK.
3. FIXTURE AND SWITCH FACTORY INSTALLED WITH UNIT. G.C. TO COMPLETE CIRCUITING.
4. EXHAUST HOOD LIGHT FIXTURES SUPPLIED WITH HOOD AND MTD IN PRE-WIRED J-BOX. COMPLETE CIRCUITING PER SHEET E6.1.
5. COORD. J-BOX LOCATION WITH WOOD FRAMING SO IT REMAINS CONCEALED BEHIND FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DWGS.
6. PROVIDE POWER TO DRIVE THRU CANOPY LIGHTING FIXTURES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CANOPY VENDOR AND CONSTRUCTION SUPERVISOR PRIOR TO CONNECTIONS.
7. PROVIDE POWER CONNECTION TO CANOPY AT FACTORY INSTALLED DISCONNECT SWITCH FOR CANOPY LIGHTS. LIGHTS ARE FURNISHED WITH CANOPY. PROVIDE ALL REQUIRED FIELD WIRING. COORDINATE REQUIREMENTS WITH MANUFACTURER.
8. PROVIDE POWER FOR FREE STANDING CANOPY LIGHTING. E.C. SHALL RUN FEEDERS THROUGH COLUMNS TO LIGHTING FIXTURES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LIGHTING VENDOR AND CONSTRUCTION SUPERVISOR PRIOR TO ROUGH-IN.
9. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS ON A4.0 AMD A4.1 FOR DIMENSIONED LOCATION OF FIXTURE.
10. SEAL ALL ELECTRICAL CONDUITS INTO THE WALK-IN COOLER.
11. ALERT LIGHT : ONLY APPLIES WHEN A GEN IV POWER SOAK IS USED. DISREGARD IF GEN III POWER SOAK IS USED. SEE SHEET E3.0 FOR POWER REQUIREMENTS.
12. MOUNT "E3" AT 8'-6" A.F.G. TO CENTER OF FIXTURE.
13. VERIFY MOUNTING HEIGHT FOR SIGN POWER WITH ARCHITECTURAL ELEVATIONS AND SIGN VENDOR.
14. PROVIDE POWER CONNECTION TO CANOPY AT FACTORY INSTALLED DISCONNECT SWITCH FOR CANOPY LIGHTS. LIGHTS ARE FURNISHED WITH CANOPY. PROVIDE ALL REQUIRED FIELD WIRING. COORDINATE REQUIREMENTS WITH MANUFACTURER.
15. PROVIDE POWER CONNECTION TO PURPLE WALLWASH LIGHTS FURNISHED BY SIGN VENDOR. PROVIDE ALL REQUIRED FIELD WIRING. CONTROL FIXTURES WITH EXTERIOR LIGHTING FIXTURES. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS. COORDINATE REQUIREMENTS WITH VENDOR.

KEY NOTES - ELECTRICAL LIGHTING PLAN AND SCHEDULE NTS **B**

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TACO BELL

109 Tuckaseege Rd.
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ENDEAVOR 2.0
LIGHTING PLAN AND DETAILS

E4.0

PLOT DATE: 3/31/2022 12:49:08 PM

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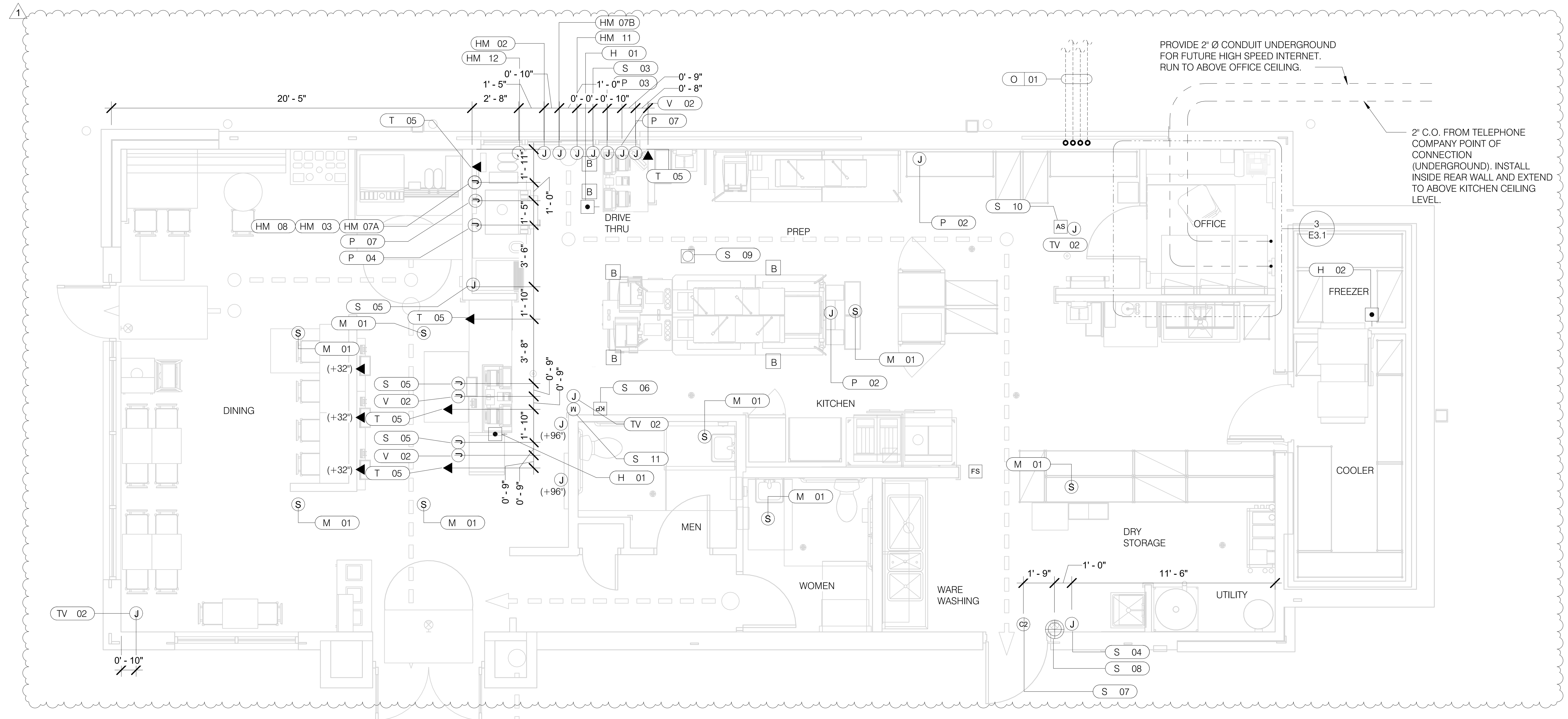

VOLUME CONTROL NOTES:
1) PATIO SPEAKER: DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGER'S OFFICE).
2) DINING ROOM SPEAKERS: DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGER'S OFFICE).
3) KITCHEN SPEAKERS: IF CONNECTED TO THE SOUND SYSTEM, CAN EITHER HAVE VOLUME CONTROL BUILT INTO THE SPEAKER ITSELF, OR HAVE A THIRD DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGER'S OFFICE).
4) RESTROOM SPEAKERS: VOLUME CONTROL BUILT INTO SPEAKER.

COMMUNICATIONS PLAN 1/4" = 1'-0" A

COMMUNICATIONS LEGEND NTS C

- HOLD-UP BUTTON (MOUNT 2-1/2" BEHIND COUNTER EDGE)
- S — MUSIC SYSTEM SPEAKERS
- SECURITY STROBE
- J — J-BOX
- 2" x 4" J-BOX W/ DATA PORTS
- M — MOTION DETECTOR
- OC — OCCUPANCY SENSOR. CEILING MOUNTED. SEE DETAILS 1 & 2 / E7.0
- C2 — DOOR CONTACT (LINKED TO AUDIO / VISUAL ALARM)
- "SOUND ALERT" DEVICE
- KP — KEYPAD (MTD AT 48" A.F.F.)
- AS — ALARM SIREN ABOVE CLG
- B — BUMP PAD (MOUNT AT FRONT COUNTER)
- FS — HOOD FIRE SUPPRESSION SYSTEM PULL STATION
- USB OUTLET

COMMUNICATIONS NOTES NTS B

A. SUPPLY AND INSTALL OUTLETS AND CONDUIT FOR OWNER SUPPLIED AND INSTALLED CABLE AND LOW VOLTAGE WIRING (U.O.N.). TELEPHONE AND MUSIC SYSTEM WIRING SHALL BE SUPPLIED AND INSTALLED. SEE SCOPE OF WORK SHEETS.

B. SEE SHEETS E3.0 AND E3.1 FOR ELECT. INFO ON POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

C. THIS PLAN INCLUDES CONDUITS AND J-BOXES FOR POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, TELEPHONE SYSTEM, MUSIC SYSTEM, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

D. ALL OUTLETS AND BOXES MOUNTED IN THE SERVING COUNTER CABINETRY ARE TO BE 24" AFF. INSTALL JUNCTION BOXES WITH CONDUIT UNDER CABINET TO NEAREST WALL AND TO ABOVE CEILING.

COMMUNICATIONS ROUGH-IN SCHEDULE

COMM. TYPE	COMM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
H	01	UNDER COUNTER HOLD-UP BUTTON		SEE DETAIL 6/E3.1.
H	02	WALL MOUNTED HOLD-UP BUTTON	+18" A.F.F.	SURFACE MTD. 2X4 J-BOX ON INSIDE OF WALK-IN FREEZER HINGE WALL W/ (1) 1/2" CONDUIT TO ABOVE KITCHEN CEILING. BUTTON FACING DOWN. SEE DETAIL 3/E3.1
HM	02	D/T TIMER SIGNAL PROCESSOR J-BOX	+126" A.F.F	4X4X4" DEEP (MIN.) J-BOX ABV. CLG. W/ (1) 1" CONDUIT TO HM-07B, (1) 1" CONDUIT TO HM-04, (1) 1-1/2" CONDUIT TO HM-08 & (1) 1" CONDUIT TO HM-12. SEE DET. 5/E3.1.
HM	03	D/T BASE STATION J-BOX	+72" A.F.F.	4X4 J-BOX @ D/T BASE STATION W/ (1) 1-1/2" C TO HM-08 & (1) 1-1/2" C TO HM-07A. SEE DETAIL 7/E3.1.
HM	07A	D/T TIMER DISPLAY J-BOX	+62" A.F.F.	2X4 J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1" C TO HM-04. SEE DETAIL 7/E3.1.
HM	07B	D/T TIMER DISPLAY J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-02. SEE DETAIL 7/E3.1
HM	08	D/T J-BOX	+96" A.F.F.	4X4X4" DEEP (MIN.) J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1-1/2" CONDUIT TO HM-02. SEE DETAIL 7/E3.1.
HM	11	D/T CONTROL UNIT J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-12. SEE DETAIL 7/E3.1.
HM	12	D/T/ ETHERNET SWITCH J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-11, (1) 1" CONDUIT TO HM-02 & (1) 1" CONDUIT TO OFFICE ROUTER.
M	01	SPEAKER, CEILING MOUNTED	CEILING	SPEAKER WIRING FROM SPEAKERS IN DINING ROOM TO AMPLIFIER IN OFFICE. FOR EXACT LOCATION OF SPEAKERS, SEE LIGHTING PLAN SHEET E4.0.
P	02		CEILING	2X4 J-BOX FLUSH @ CEILING. FOR M.A.P.S. LINE MONITOR J-BOX.
P	03	KITCHEN MONITOR J-BOX	+84" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO ABOVE CIELING
P	04	BUMP PAD J-BOX	+24" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-03.
P	07	POS J-BOX W/ 2-1/2" DIA HOLE IN COVER PLATE	+24" A.F.F.	6X6X4" DEEP J-BOX W/ 2-1/2" CONDUIT IN WALL TO ABV. CEILING, WITH PULL STRING FOR POS.
S	03	J-BOX SECURITY SYSTEM	+30" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. FOR HOLD-UP BUTTON SIGNAL WIRE.
S	04	J-BOX SECURITY SYSTEM	+84" A.F.F.	2X4 J-BOX W/ COVER & (1) 1/2" CONDUIT TO ABOVE CEILING.
S	05		+24" A.F.F.	2X4 J-BOX W/ 3/4" CONDUIT TO S-05 AND TO ABOVE CEILING.
S	06	J-BOX SECURITY SYSTEM	+48" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR SECURITY SYSTEM KEYPAD.
S	07	J-BOX SECURITY SYSTEM	TOP OF JAMB	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR DOOR CONTACT.
S	08	"SOUND ALERT" DEVICE	CEILING	CONNECT TO SECURITY SYSTEM.
S	09	SECURITY STROBE LIGHT	CEILING	CONNECT TO SECURITY SYSTEM.
S	10	ALARM SIREN	ABV. CEILING	CONNECT TO SECURITY SYSTEM.
S	11	MOTION / HEAT DETECTOR	+78" A.F.F.	STUB 1/2" CONDUIT. D5835 OR D5820. MOUNT 90" A.F.F. FOR OFFICE

COMMUNICATIONS ROUGH-IN SCHEDULE

COMM. TYPE	COMM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
T	03	VOICE LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ DOUBLE RJ-11 PHONE JACK & 1" CONDUIT TO ABOVE CEILING.
T	04	COMPUTER LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ RJ-11 PHONE JACK AND 1" CONDUIT TO ABOVE CEILING.
T	05	P.O.S. PHONE JACK	+24" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING.
TV	02	SECURITY CAMERA	+96" A.F.F.	MINI-DOME CAMERA MTD. TO BTM. OF MENU BOARD BULKHEAD. 2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING MTD. ON BACK SIDE OF BULKHEAD (6 TOTAL).
V	02	CREDIT CARD READER (VSAT)	+24" A.F.F.	2X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES.
S	01	J-BOX SECURITY SYSTEMS	+48" A.F.F.	4X4 J-BOX AT SECUIRTY SYSTEM CONTROL PANEL W/ (1) 2" CONDUIT TO S-02
S	02	J-BOX SECURITY SYSTEMS	+106" A.F.F.	4X4 J-BOX ADJACENT TO T-02 W/ (1) 2" CONDUIT TO S-01
S	12	J-BOX SECURITY DVR	+42" A.F.F.	2X4 J-BOX FOR SECURITY DVR
T	02	SECURITY SYSTEM PHONE JACK	+106" A.F.F.	2X4 J-BOX ADJACENT TO S-02 W/ RJ-31X PHONE JACK
V	01	ALTERNATE PAYMENT ROUTER BOX	+90" A.F.F.	4X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES (DOUBLE JACK)
HM	10	OCB SWITCH	+52" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING
IR	01	IRRIGATION TIMER	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES
O	01	(4) 1" DATA CONDUITS	CEILING	FROM MENU BOARD/SPEAKER POST TO ABOVE CEILING FOR OCB AND D/T COMM. SYST. SEE DETAIL 3/7.0
HM	04	OCB SWITCH	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES
T	01	TELEPHONE SERVICE BOX PER LOCAL TELEPHONE COMPANY. PROVIDE 24"X24"X3/4" PLYWOOD PANEL AT CLG. PROVIDE PULL STRING IN 2" CONDUIT.	+24" A.F.F.	PROVIDE (1) 25 PAIR TELEPHONE CABLE. ONLY (2) LINES TO BE USED. LINE ONE FOR VOICE/FAX. LINE (2) FOR COMPUTER MODEM.
TV	01	CLOSED CIRCUIT TELEVISION (CCTV)		CCTV INSTALLATION IS BASED ON THE CRIME INDEX AS DETERMINED BY YUM! LOSS PREVENTION MANAGER. THE STANDARD CCTV PACKAGE WILL CONSIST OF (1) CCTV MONITOR W/ WALL BRACKET AND (1) MINI DOME CAMERA MTD. ON BACK SIDE OF BULKHEAD (7 TOTAL)

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TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
COMMUNICATIONS PLAN

E5.0

PLOT DATE: 3/31/2022 12:49:11 PM

TBCCB-3-WOS SEQUENCE OF OPERATION

The intent of the BMS Control Box (TBCCB-3-WOS) is to activate or deactivate the following:

- Kitchen Lighting
- Dining Room Lighting
- Exterior Lighting
- Exterior Signs
- Exhaust hood exhaust fan
- Exhaust hood lighting
- Make up air / replacement air fan
- Rest room / cook line exhaust fan
- Managers Office lighting & at least one duplex outlet

Sequence of Operation

(Building) Occupied Mode

When the Occupied/Unoccupied selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 1 of the Timeclock in the Control Box is programmed to place the building in Occupied mode 15 minutes before the first Team Member arrives on the premises. This commands on the following:

- The Parking Lot Lights, provided the photo cell indicates it is dark enough for them to be on
- The restroom and cook line exhaust fan marked "EF-2"
- Dining Room Lights, provided their local switch is in the ON position
- Kitchen and rest room lights, provided their local switch and or occupancy sensors are in the ON position
- The exhaust hood exhaust fan marked "EF-1"
- The make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2.

Occupied mode may also be invoked when any of the following occur:

- an Occupancy sensor on the front of the TBCCB-3-WOS panel senses motion
- when an optional remote Occupancy sensor senses motion
- when a remote Occupied switch is in the Occupied position
- when the Occupied/Unoccupied switch on the front of the TBCCB-3-WOS is placed in the MANUAL OCCUPIED position

(Building) Unoccupied Mode

When the Occupied/Unoccupied selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 1 of the Timeclock in the Control Box is programmed to place the building in Unoccupied mode 15 minutes after the last Team Member leaves the premises. This commands OFF the following:

- The Parking Lot Lights
- The restroom and cook line exhaust fan marked "EF-2"
- Dining Room Lights
- Kitchen room lights
- The exhaust hood exhaust fan marked "EF-1"
- The make up air - replacement air fan (evaporator fan) in RTU 1 and RTU 2.

In the event of a rise in temperature above 85 degrees in the exhaust hood, the exhaust fan (EF-1) and the make up air source (RTU 1 and 2) will be activated. When in Unoccupied mode and the temperature under the hood drops below 85 degrees, the exhaust fan and make up air source will turn off fifteen minutes after the l85 degree setting is achieved.

Any detection by the Occupancy sensor in the TBCCB-3-WOS or the optional Remote Occupancy Sensor or the optional Remote Occupancy Switch or ON position of the Manual Occupied switch will override the Timeclock and keep the building in OCCUPIED mode.

(Sales) OPEN mode

When the OPEN/CLOSED selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 2 of the Timeclock in the Control Box is programmed to place the building in OPEN (FOR SALES) mode. This commands on the following:

- The Exterior Building Lights, provided the photo cell indicates it is dark enough for them to be on
- The Exterior Signs, provided the photo cell indicates it is dark enough for them to be on

OPEN for sales mode may also be invoked when any of the following occur:

- when an optional remote OPEN (for sales) switch is in the OPEN position
- when the OPEN/CLOSED switch on the front of the TBCCB-3-WOS is placed in the MANUAL OPEN position

(Sales) CLOSED mode

When the OPEN/CLOSED selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 2 of the Timeclock in the Control Box is programmed to place the building in CLOSED (FOR SALES) mode. This commands OFF the following:

- The Exterior Building Lights
- The Exterior Signs,

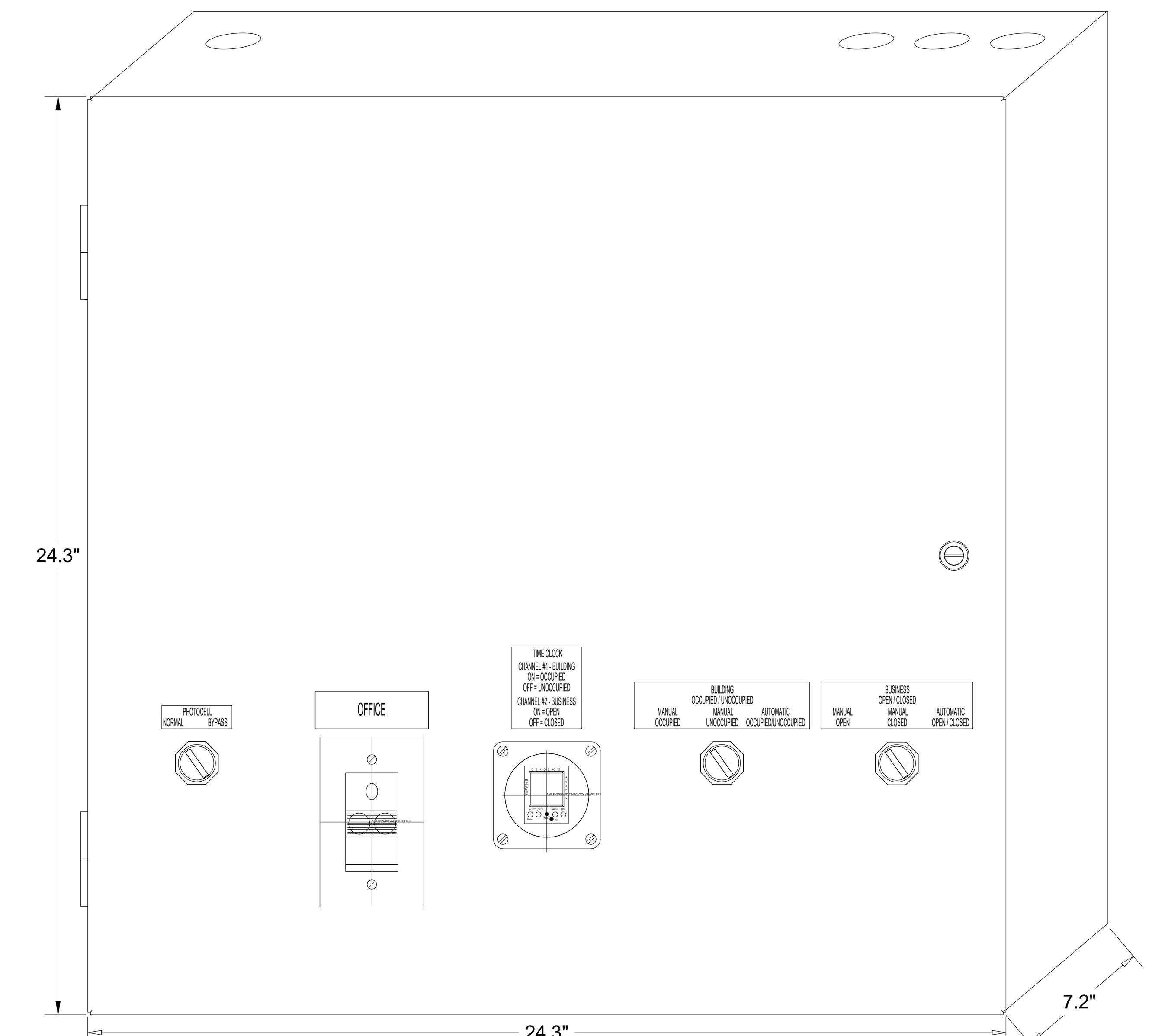
Manual CLOSED Mode

When a Team Member places the OPEN/CLOSED switch in the MANUALCLOSED position it turns off the Signs and Exterior Lights until the switch is placed back in AUTOMATIC or MANUAL OPEN position

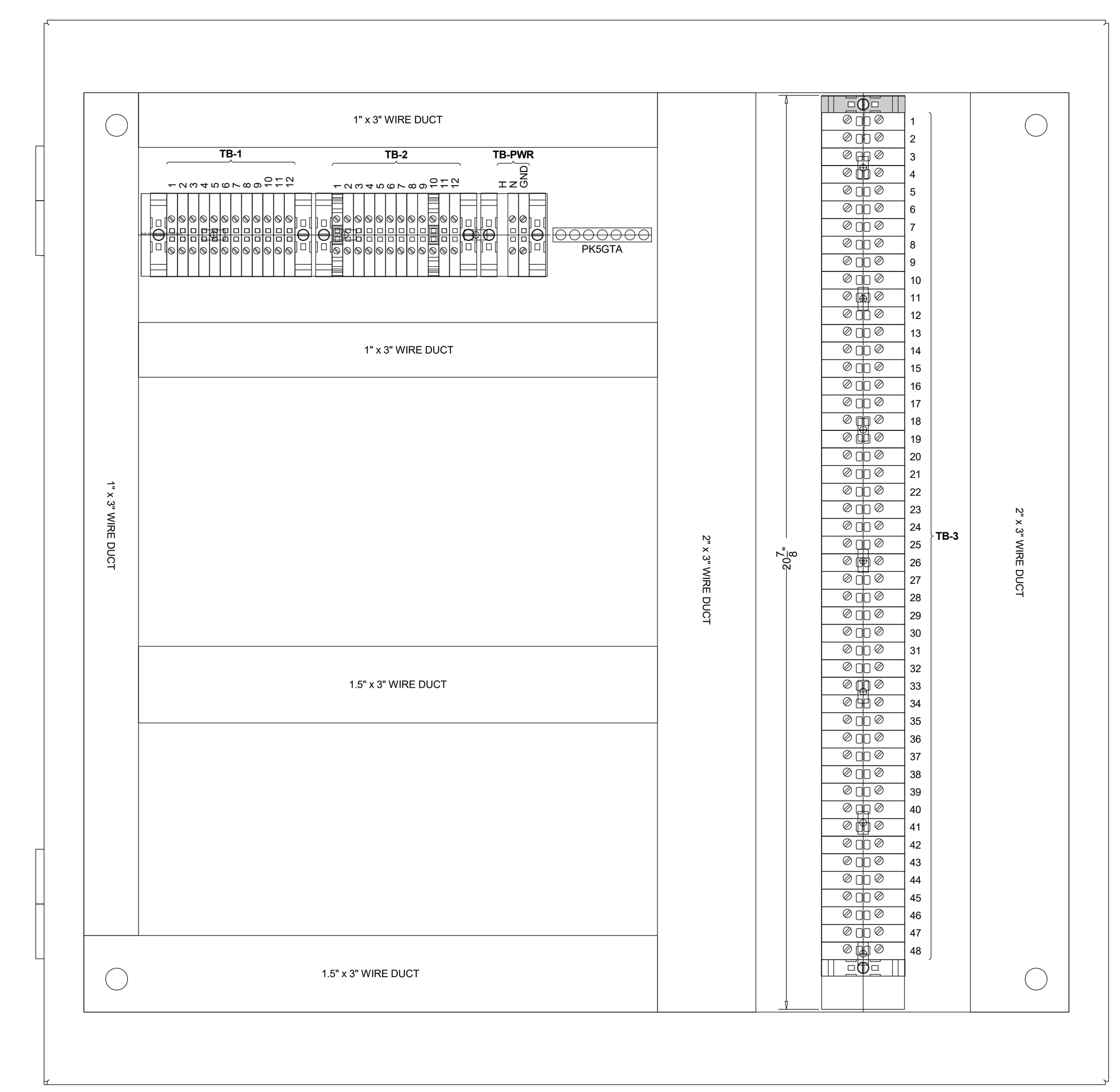
External Operations Not Part Of The Control Box Operation But Required To Be Installed

The following operations should take place between the package units and various components:

- Control voltage for RTU 2 shall pass through contacts in the fire suppression system for the exhaust hood so that RTU 2 evaporator fan shuts down upon an activation of the fire suppressant into the hood. The system shall be wired directly between the fire suppression system and RTU 2 or TBANS control box. See sheet E-7.1.
- A remote smoke detector system featuring testing, annunciation and remote unit reset shall be installed in the manager's office for each RTU. The system shall be wired directly between each RTU and its respective testing, annunciation and reset device.

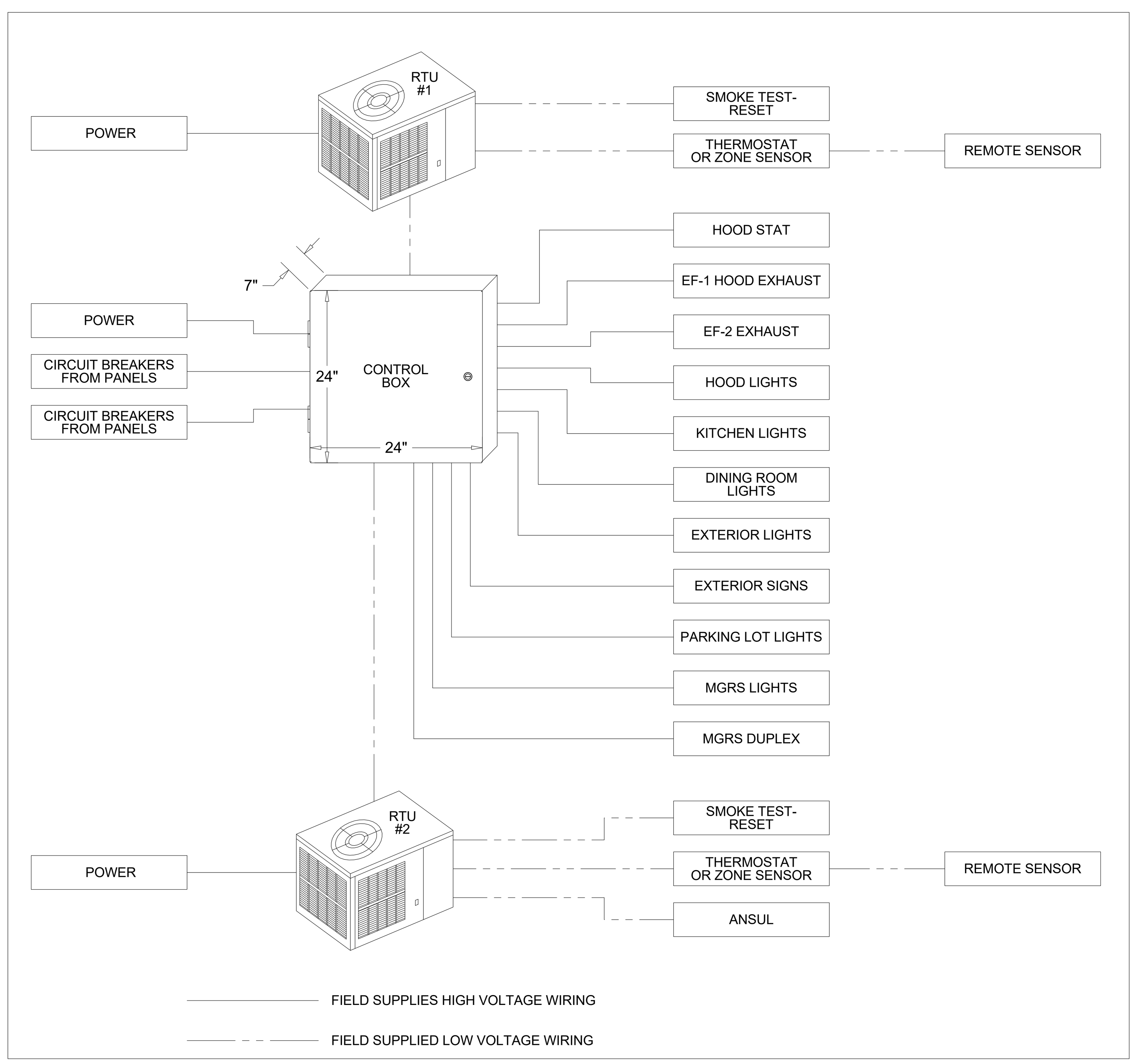


PANEL FRONT



SUBPANEL LAYOUT

TACO BELL COMPONENT RELATIONSHIP



FIELD WIRE BY OTHERS

THIS PANEL ENCLOSURE IS RATED TYPE 1.
TO PRESERVE RATING USE TYPE 1
CONDUIT ENTRY HUBS

This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.

TBCCB-3-WOS

CONTROL BOX

TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBCCB-3-WOS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
NOTE: TBCCB-3 WOS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY.
TBCCB-3-WOS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.
PRIMARY CONTACT: CHUCK MCCABE
PHONE: 949 770 2222
EMAIL: INFO@ACE-EMS.COM

GPD Engineering and Architecture
Professional Corporation - C3879

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

FOR REFERENCE ONLY

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

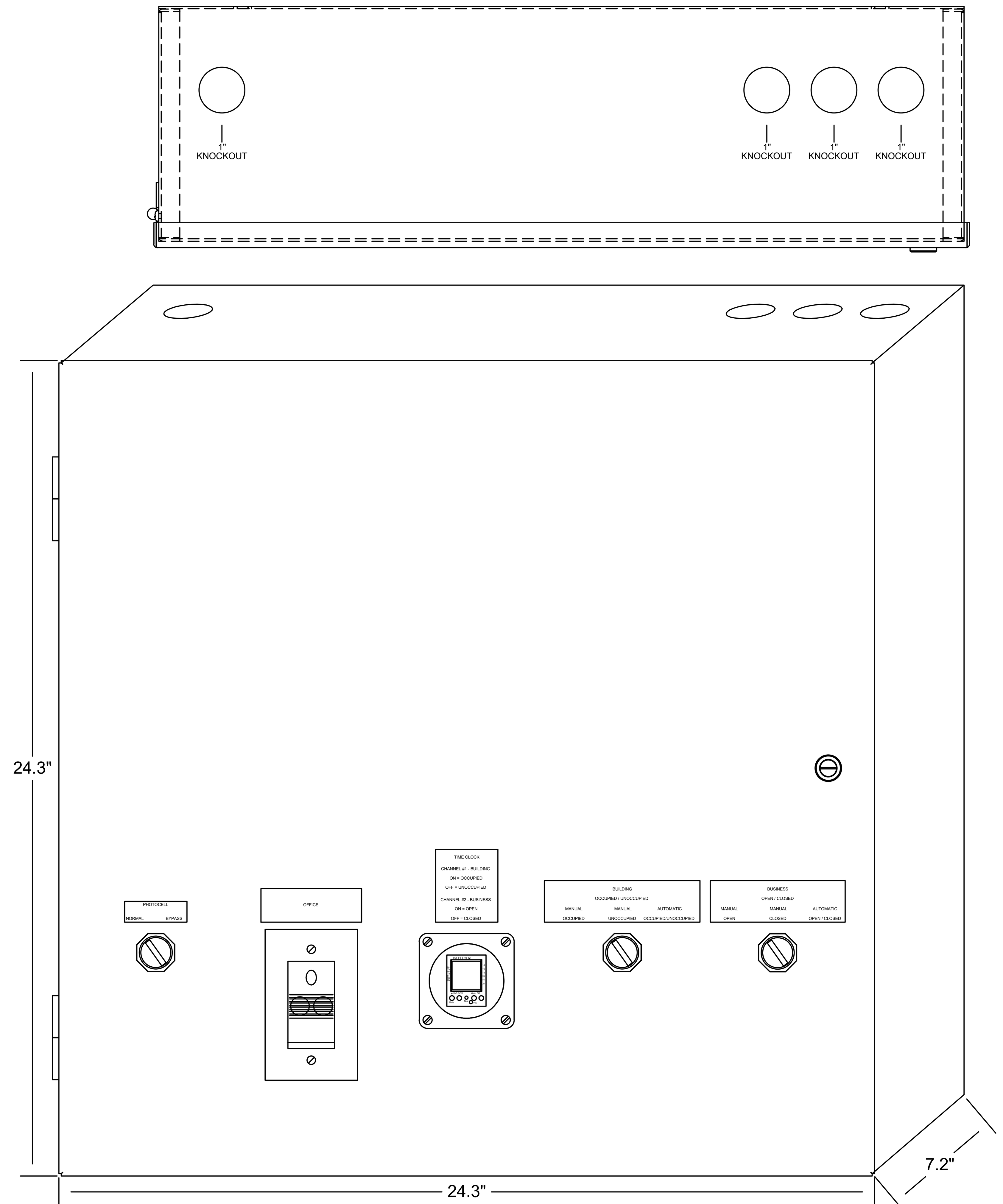
ENDEAVOR 2.0

ELECTRICAL DETAILS - TBCCB

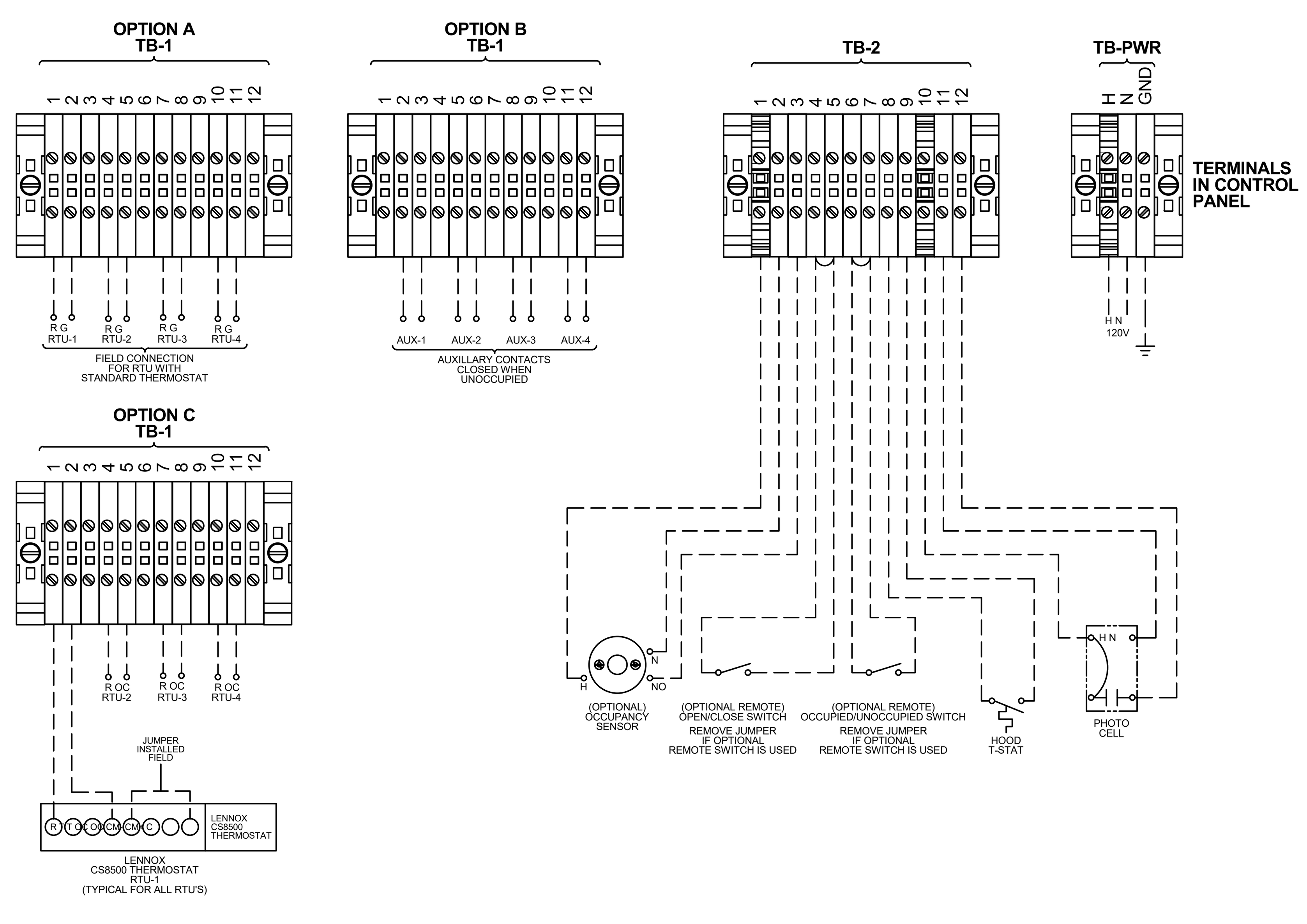
E6.0

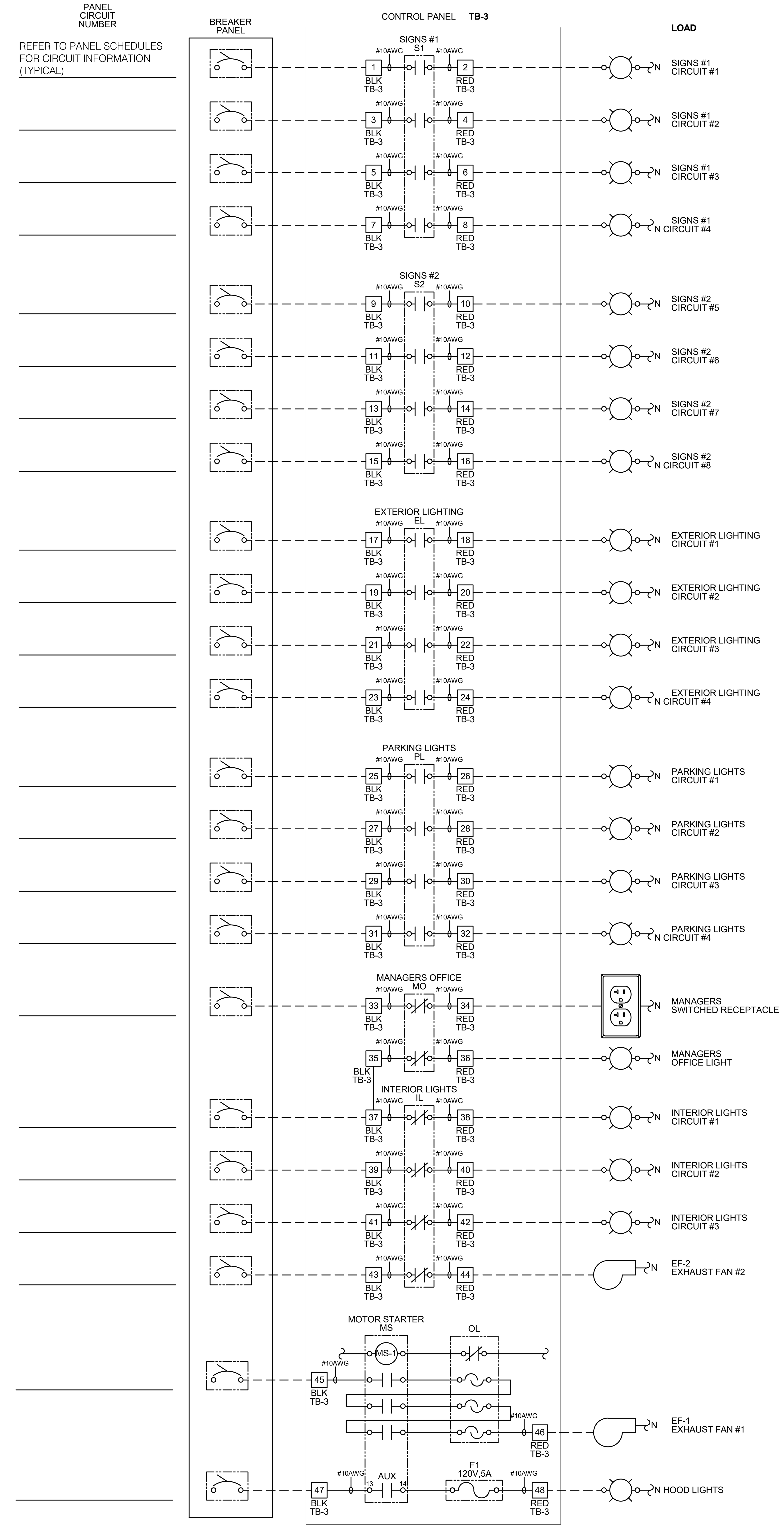
PLOT DATE: 3/31/2022 12:49:12 PM

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



PANEL FRONT





TBCCB-3-WOS

– – – FIELD WIRE BY OTHERS

THIS PANEL ENCLOSURE IS RATED TYPE 1. TO PRESERVE RATING USE TYPE 1 CONDUIT ENTRY HUBS

This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.

NOTES:

1. VISUAL VERIFICATION OF THIS INSTALLATION IS REQUIRED. SEE SHEET M5.0
2. PANEL IS SURFACE MOUNT
3. PROTECT INTERIOR FROM METAL SHAVINGS & DEBRIS

CONTROL BOX

TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBCCB-3-WOS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

NOTE: TBCCB-3 WOS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY.

TBCCB-3-WOS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.

PRIMARY CONTACT: CHUCK MCCABE

PHONE: 949 770 2222

EMAIL: INFO@ACE-EMS.COM

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TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0

ELECTRICAL DETAILS - TBCCB

E6.1

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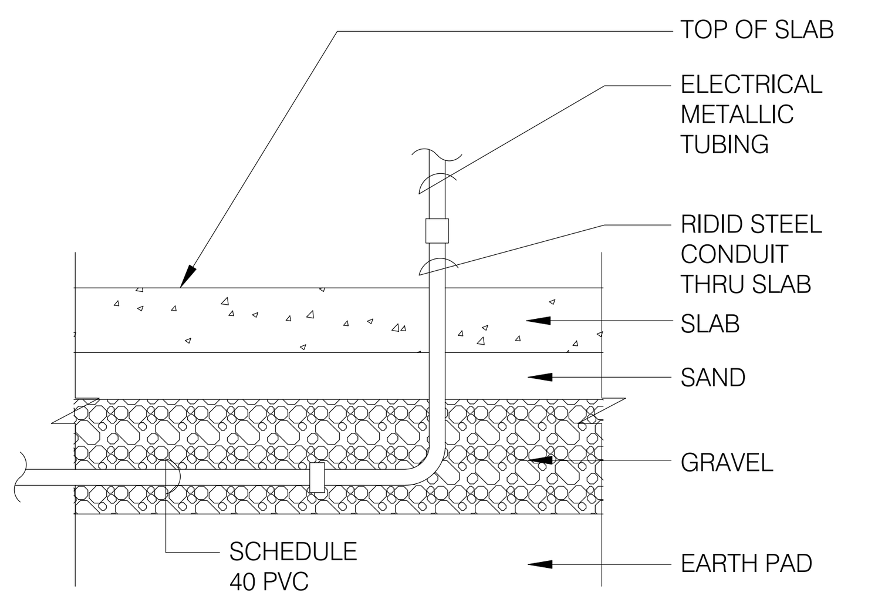
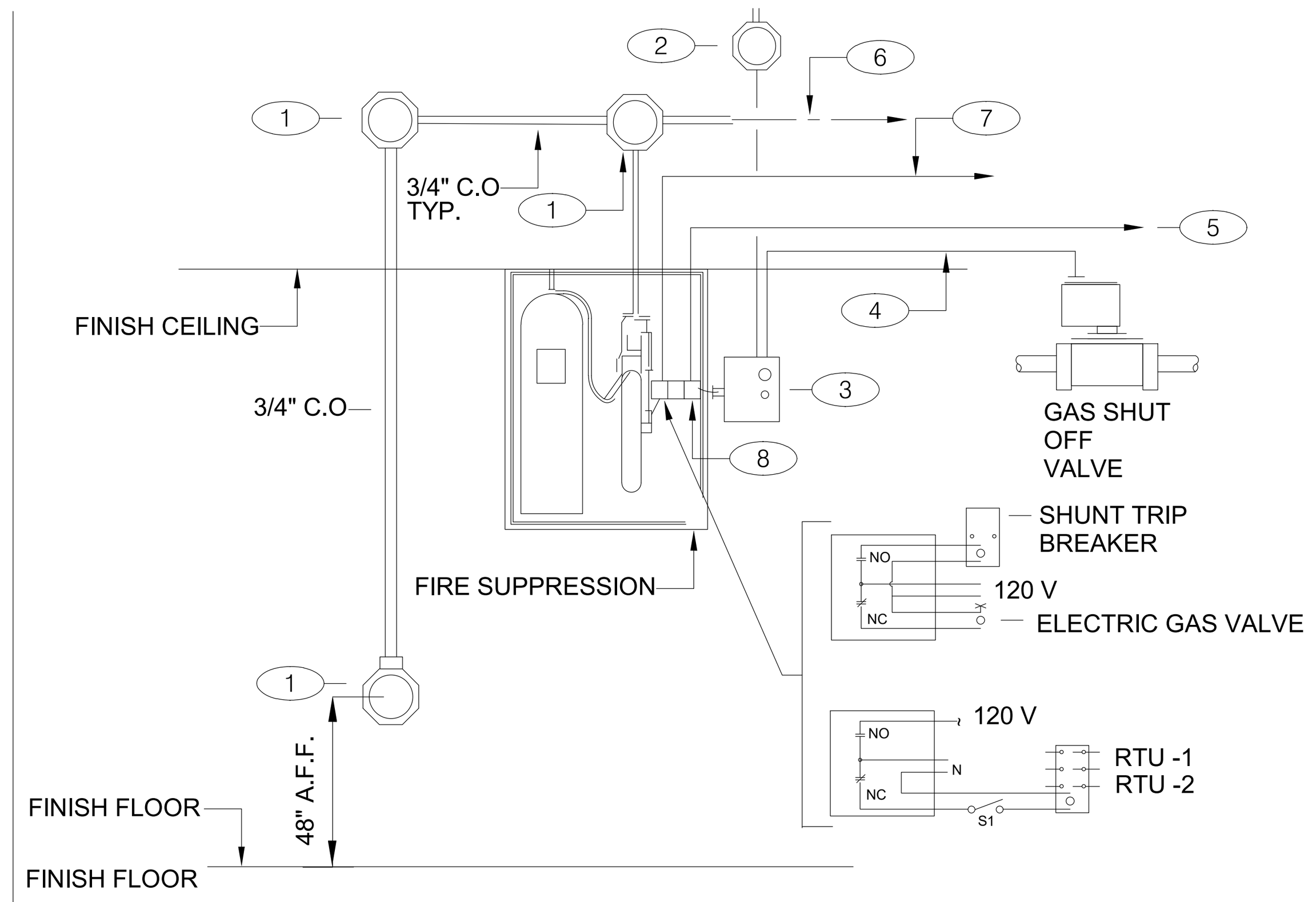


NOTE: GREEN GROUND WIRE REQUIRED IN ALL CONDUITS, SIZED PER N.E.C. REQUIREMENTS.

YES001

UNDER SLAB CONDUIT N.T.S. **7**



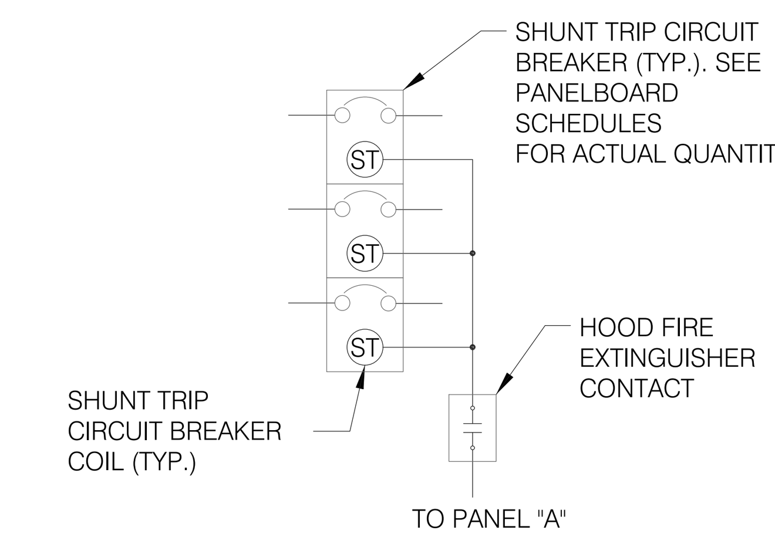
GENERAL NOTES:

1. REFER TO SHEET M3.0

KEY NOTES:

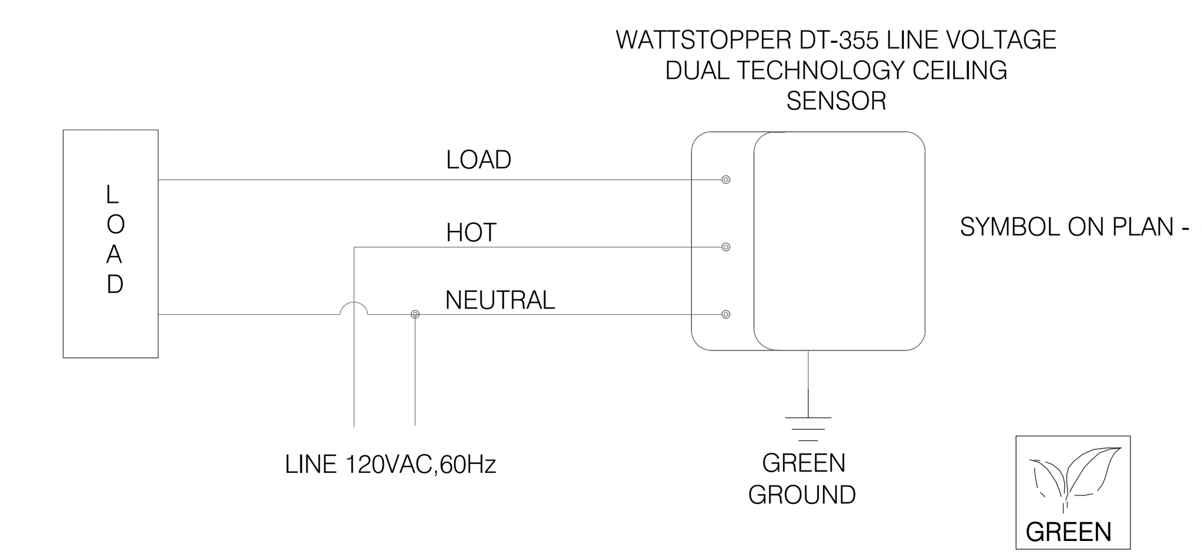
1. PROVIDE 4" OCTAGONAL J-BOX.
2. PROVIDE J-BOX , AND 110 V CIRCUIT. REFER TO EQUIPMENT SCHEDULE/FLOOR PLAN FOR CIRCUIT ASSIGNMENT. CONNECT TO TBANS. SEE SHEET 7.1.
3. TBANS INSTALLED BY ELECTRICAL CONTRACTOR.
4. PROVIDE CONNECTIONS TO TBANS BOX FOR HOOD SHUTDOWN. SEE SHEET E7.1 FOR TBANS WIRING DIAGRAM.
5. PROVIDE 1/2" C WITH CONTROL CABLE. MAKE INTERCONNECTIONS TO EXHAUST & SUPPLY FAN INTERFACE THROUGH MICROSWITCH ON HOOD.
6. CABLE AND CONNECTION TO FUSIBLE LINKS AT EXHAUST HOOD BY K.E.C.
7. PROVIDE INTERCONNECTION BETWEEN FIRE SUPPRESSION MICROSWITCH AND TBANS. SEE SHEET E7.1.
8. FIRE SUPPRESSION SYSTEM TO INCLUDE TWO MICROSWITCHES. EACH MICROSWITCH SHALL HAVE A COMMON, NORMALLY OPEN AND NORMALLY CLOSED POLE.

FIRE SUPPRESSION SYSTEM WIRING DIAGRAM N.T.S. **4**



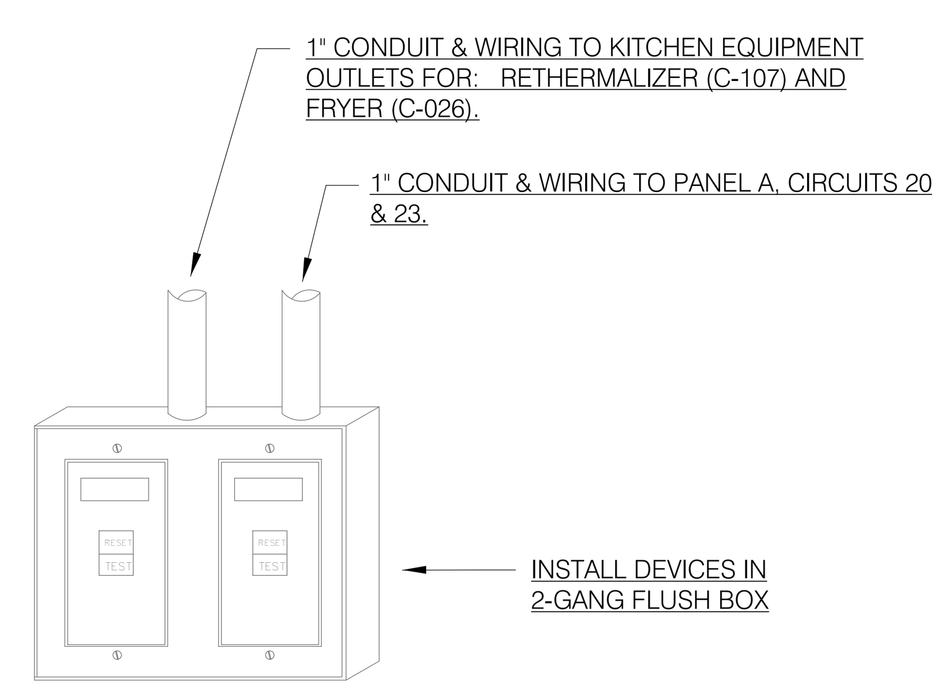
SEQUENCE OF OPERATION:
UPON ACTIVATION OF ANY HOOD FIRE SUPPRESSION SYSTEM RELAY, A RELAY IN THAT FIRE SUPPRESSION SYSTEM SHALL CAUSE ALL SHUNT TRIP CIRCUIT BREAKERS TO OPERATE, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD. EXHAUST FANS SHALL NOT BE AFFECTED BY THIS ACTION AND SHALL CONTINUE TO BE CONTROLLED AS INDICATED IN THE SEQUENCE OF OPERATIONS INDICATED ON CONTROLS SHEETS E6.0 AND E6.1

SHUNT TRIP DETAIL N.T.S. **1**



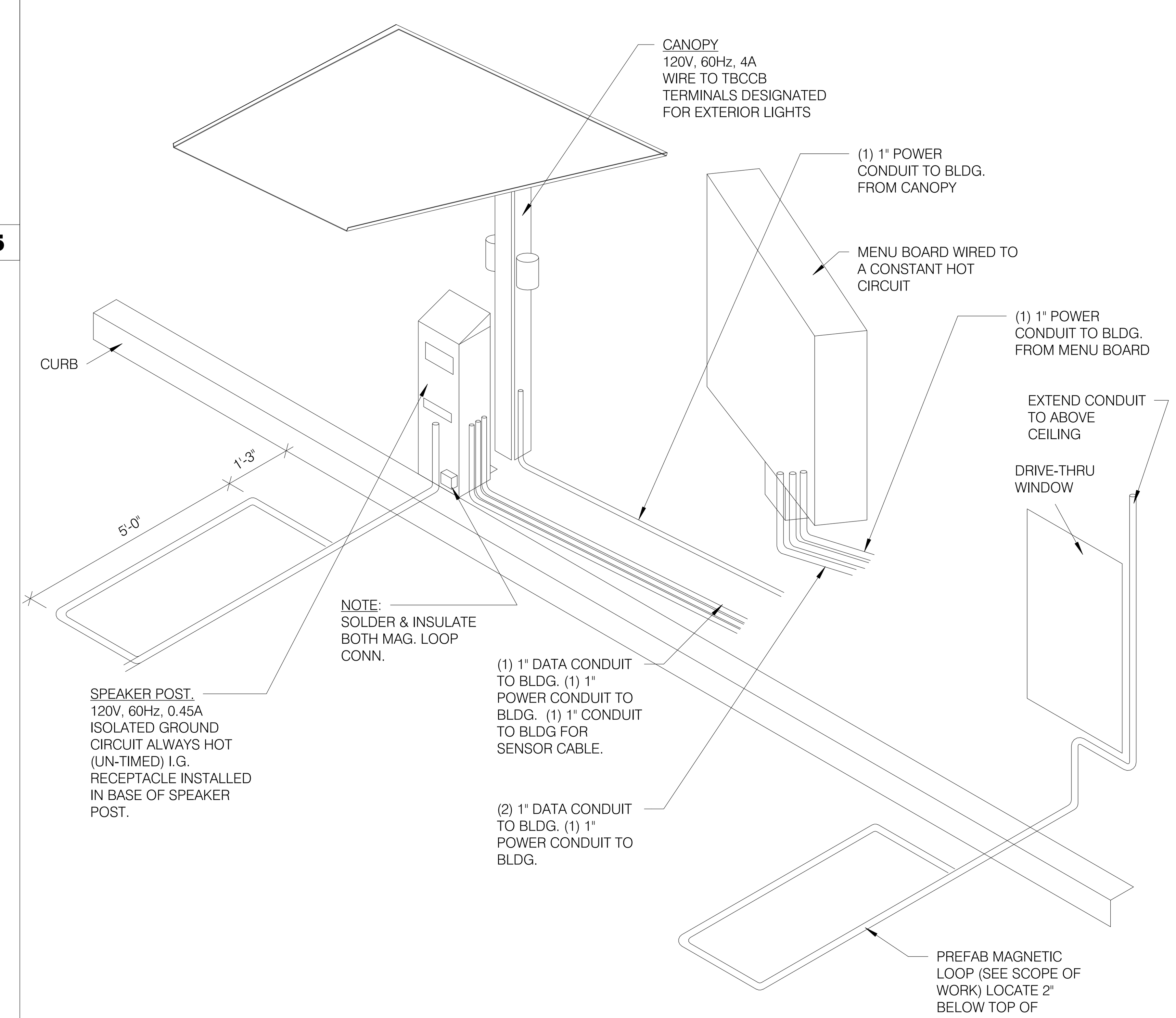
CEILING OCCUPANCY SENSOR WIRING DIAGRAM N.T.S. **2**

NOT USED N.T.S. **8**



NOTES:
1. DEAD FRONT GFCI DEVICES ARE REQUIRED FOR KITCHEN EQUIPMENT REQUIRING BOTH A SHUNT TRIP BREAKER AND GFCI PROTECTION.
2. REFER TO SHEET E3.0 FOR LOCATION OF DEAD FRONT GFCI DEVICES.
3. PROVIDE LABEL ON DEVICES WITH CIRCUIT NUMBER AND LOAD DESIGNATION.

DEAD FRONT GFCI DEVICE DETAIL N.T.S. **5**



YES006A

NOT USED N.T.S. **9**

NOT USED N.T.S. **6**

DRIVE-THRU COMMUNICATIONS ISOMETRIC N.T.S. **3**

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TACO BELL

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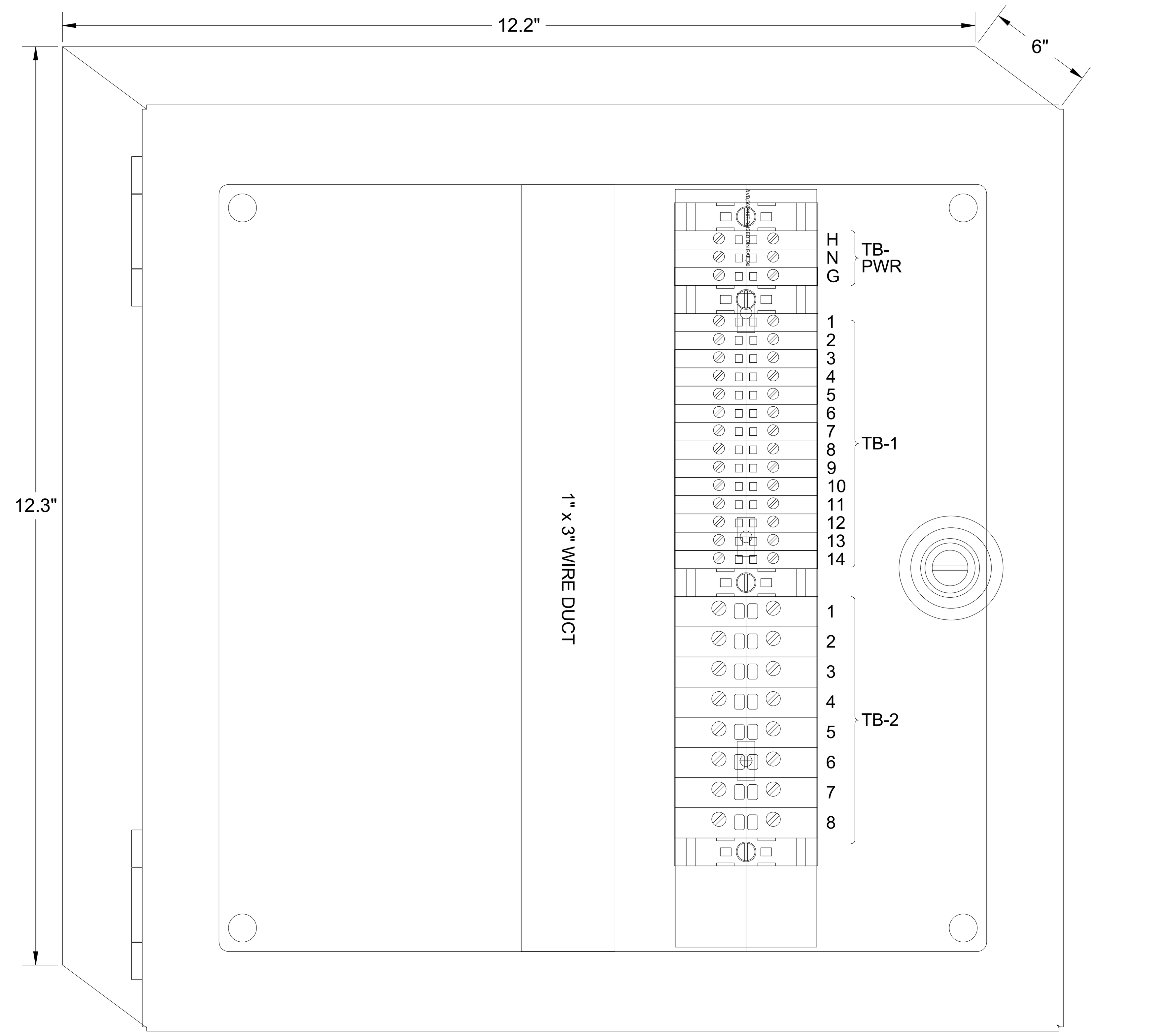
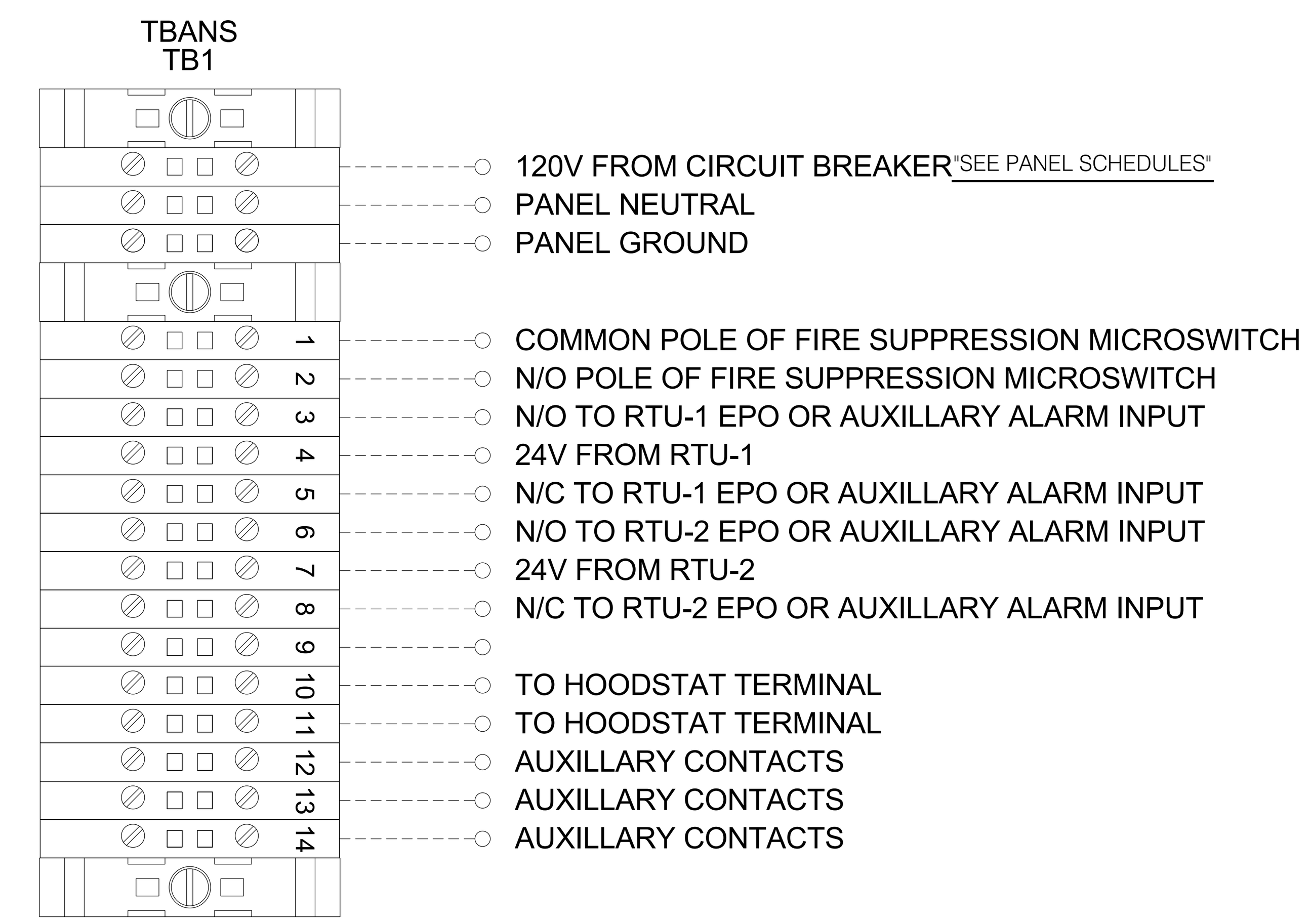
ENDEAVOR 2.0
ELECTRICAL DETAILS

E7.0

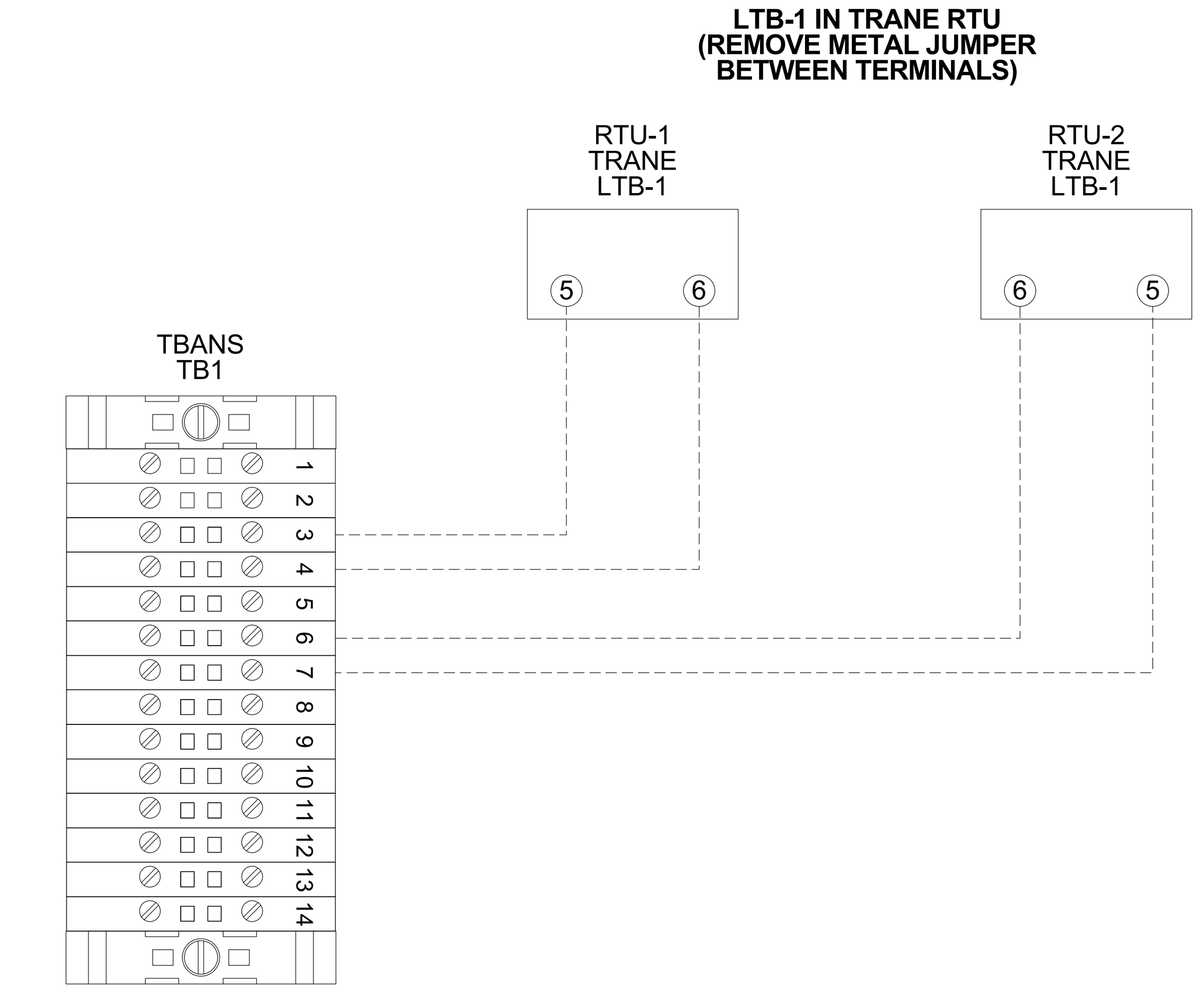
PLOT DATE: 3/31/2022 12:49:13 PM



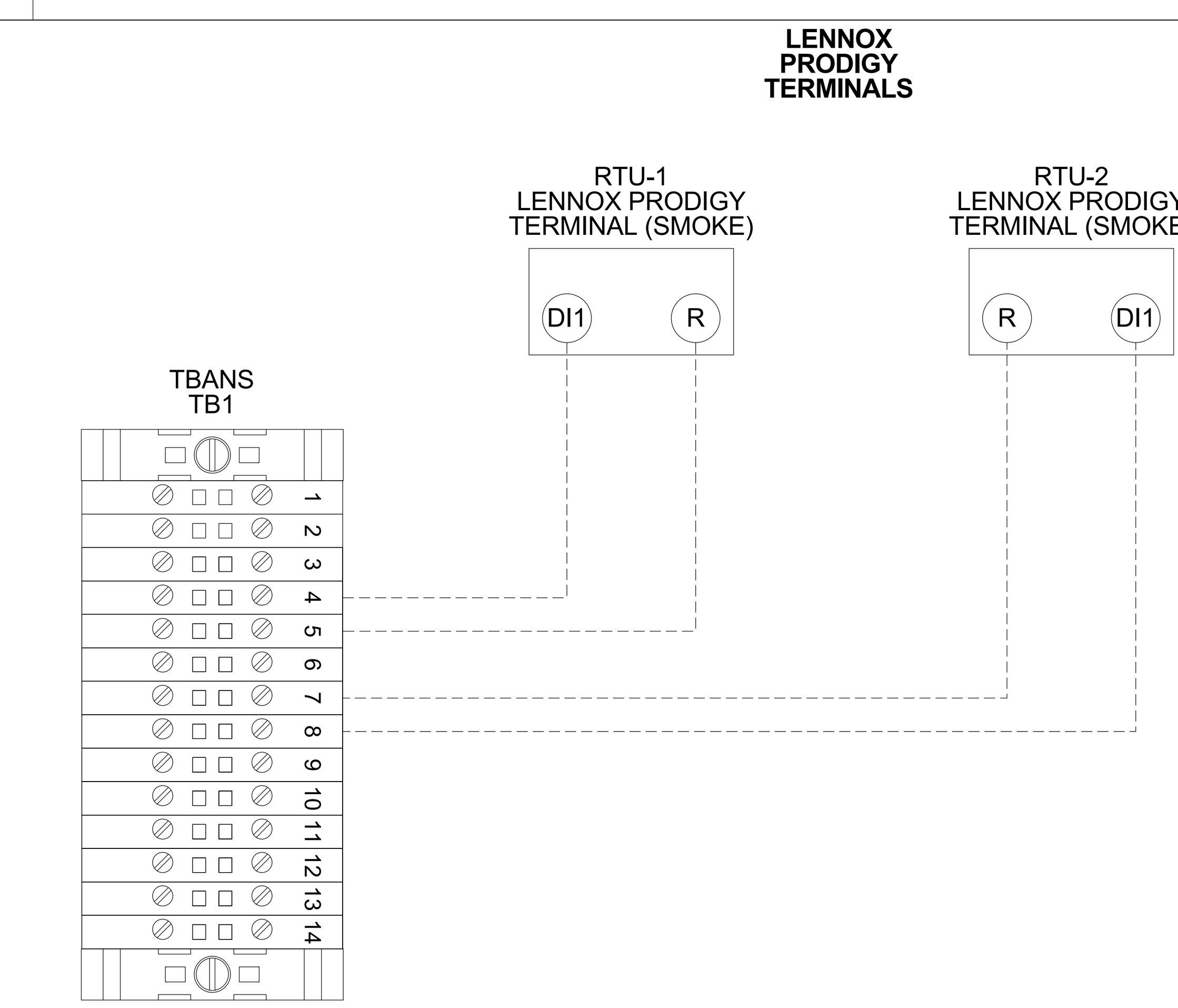
1 TBANS PANEL DIMENSIONS NTS



2 TBANS FIELD CONNECTIONS - VARIOUS NTS



6 TBANS TO TRANE RTU SHUTDOWN NTS

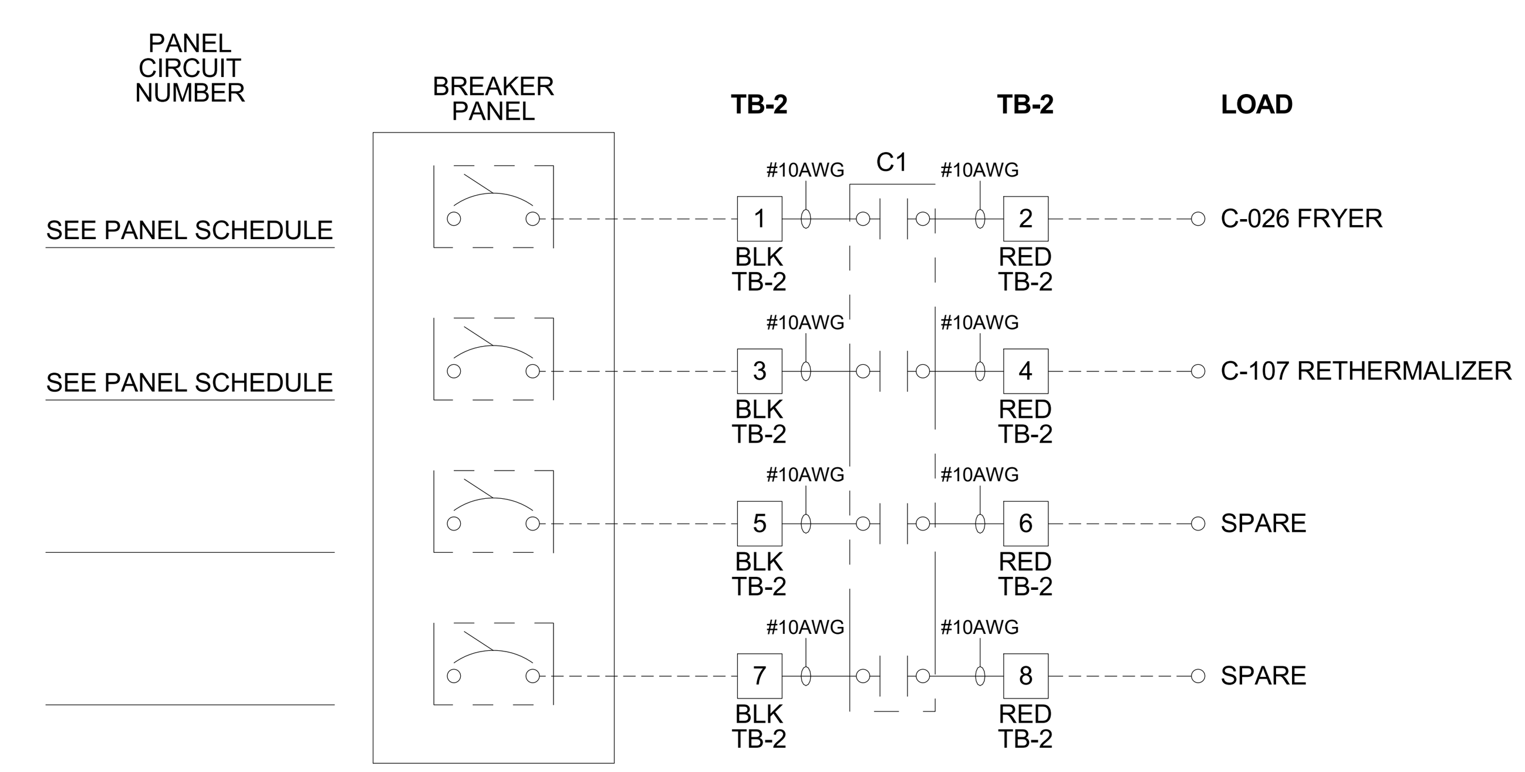


5 TBANS TO LENNOX PRODIGY SHUTDOWN NTS

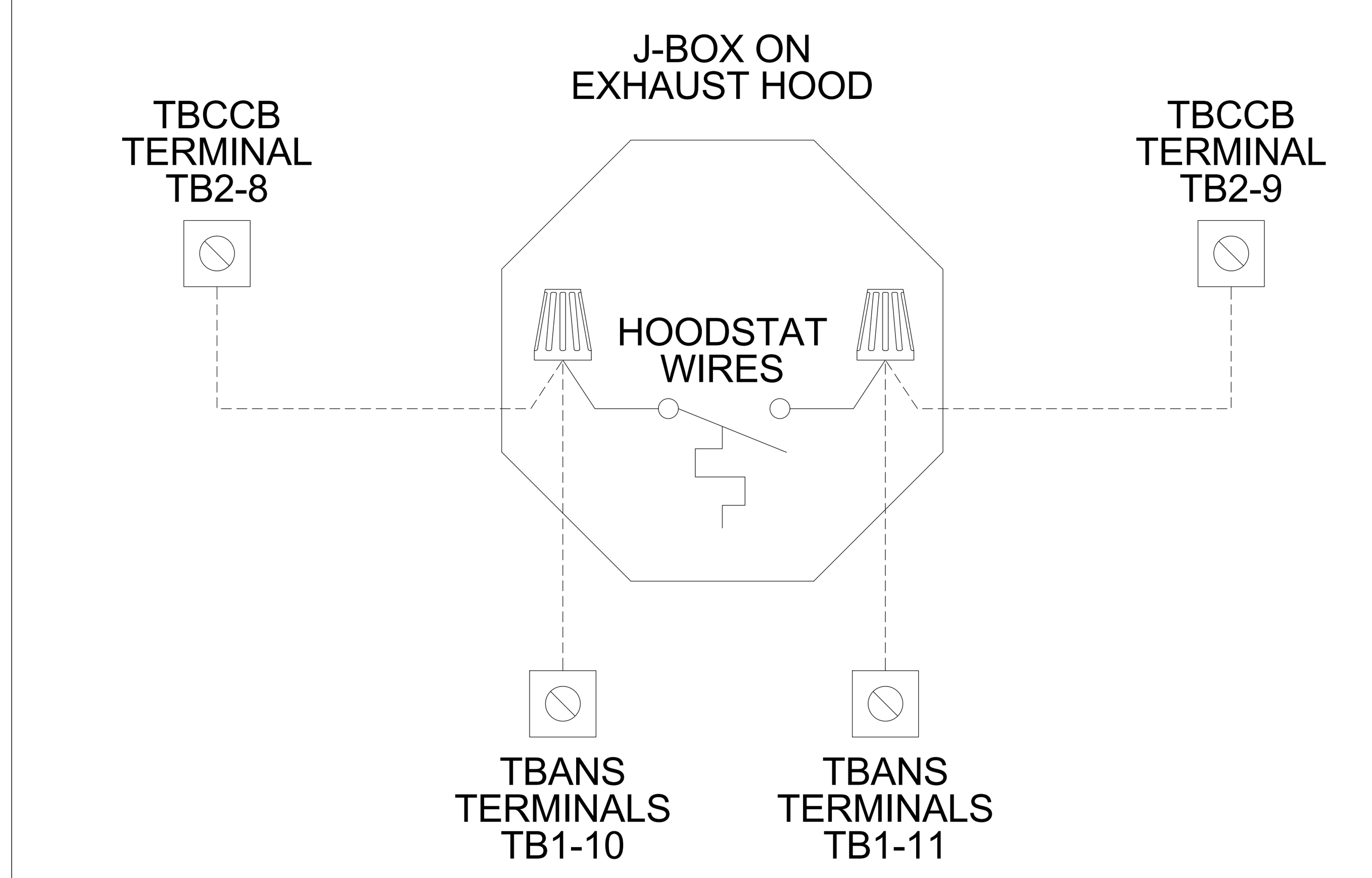
SEQUENCE OF OPERATION:
ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM RELAY SHALL CAUSE TBANS TO DE-ENERGIZE LOAD, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD.

CONTROL BOX
TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBANS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
NOTE: TBANS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY.
TBANS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.
PRIMARY CONTACT: CHUCK MCCABE
PHONE: 949 770 2222
EMAIL: INFO@ACE-EMS.COM

TACO BELL REQUIRES VISUAL CERTIFICATION OF THIS INSTALLATION SEE SHEET M5.0
CONTACT CERTIFY@ACE-BCX.COM OR (949)-770-2222



3 TBANS FIELD CONNECTIONS - APPLIANCES NTS



4 TBANS TO HOODSTAT TO TBCCB NTS

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TACO BELL
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Mount Holly, NC 28120

ENDEAVOR 2.0
ELECTRICAL DETAILS

E7.1

PLOT DATE: 3/31/2022 12:49:13 PM

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TITLE	DESCRIPTION	SUPPLIER	MANUFACTURER'S MODEL	A&D ITEM #	ORDERED BY	SHIPPED BY	INSTALLED BY	SHOP DRAWINGS
6200	Roof Access Ladder & Hatch	Precision	FL 184 (Ladder) & PLHG (Hatch)	B-049 (Ladder) & B-050 (Hatch)	DIS	DIS	GC	
8341	Door - Security	LockNet	DU3670L52VED	-	RSCS	RSCS	GC	
10290-1	Air Curtain (D/T Window)	Marley	E2400-1115FG	B-151	DIS	DIS	GC	
10290-2	Air Curtain (Service Door)	Marley	E4200-1175	B-150	DIS	DIS	GC	
	Exterior Digital Menu Board & Optional Digital Preview Board	Everbrite		-	CM (Company), CM or DIS (Franchise)	Manufacturer	GC - Foundation and Conduit Sign Vendor DMB Ins	X
		Stratacache						
	Interior Menuboard	VGS			DIS	Manufacturer	GC	
	Digital Menu Board	Stratacache	-	-				
10430	Signage (Bldg Signs, Road Signs, Directional Signs)	Cummings Signs	VARIES	VARIES	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
		Everbrite (Preferred Supplier)	VARIES	VARIES				
		AGI						
10536	Canopies	Cummings Signs	VARIES	VARIES	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
		Everbrite (Preferred Supplier)	VARIES	VARIES				
		AGI						
10810	Restroom Accessories	Accuserv	VARIES	F-452 (if indicated in plan set), B-241, B-265, B-275, B-290 (where occurs), B-291 (where occurs), B-300, B-305, B-405, B-410	DIS	DIS	GC	
11020-1	Safe	Brinks	Tidel Series 4 (duel single note validator, standard side vault)	F-174	CM	BRINKS	BRINKS	
11020-2	Security System	Tyco	-	-	CM	Manufacturer	GC	X
11030-1	Drive-thru Window	Quikserv	QKSRVSC4030BR	B-140	RSCS	Manufacturer	GC	
11030-3	Drive-thru Clearance Bar	Cummings Signs	-	-	CM	Manufacturer	GC	
		Everbrite (Preferred Supplier)	-	-				
		AGI	-	-				
11030-4	Drive-thru Sensor Loops	ERC Parts Inc.	WX8171	-	Manufacturer	Manufacturer	GC	
11100-3	P.O.S.	IBM	-	VARIES	TB / IT	Manufacturer	SSP	X
		NCR	-	VARIES				
		PAR	-	VARIES				
11100-4	Credit Card Payment System	Hughes Network Systems	-	-	TB / IT	Manufacturer	SSP	
11300-1	Order Confirmation Board (OCB)	Delphi Display Systems	P6YUC5STDUSVV1S; P6YOCSSTDUSEN1S	-	DIS	DIS	GC (see Scope of Work notes)	
		Hyperactive	TDMHX2H01TCB;TDMHX1H26	L-090				
		Texas Digital	AVNGE60	L-095				
11300-2	Drive-thru Speaker & Microphone	HME	C400005HS3TB; C11422TB	U-011; S-204	DIS	Manufacturer	GC	
		3M Food Services Trad Dept	78691149153; G55HSSINGLE	-				
11300-4	DT Canopy	Cummings Signs		V-350	CM, Franchisee or DIS on behalf of Franchisee	Manufacturer	GC (see Scope of Work notes)	X
		Everbrite (Preferred Supplier)						
		AGI						
11400-1	Kitchen Equipment	N. Wasserstrom (Franchise only)	VARIES	VARIES	DIS	DIS	GC (see General Comments)	X
		RSCS (Preferred Supplier)	VARIES	VARIES				
11400-5	GTO with EVO Production Line	Delfield	VARIES	VARIES	DIS	DIS	GC / Manufacturer (Local Installer)	X
		Duke	VARIES	VARIES				
		Carter Hoffman (EvO cabinets)	VARIES	VARIES				
11405-3	Kitchen Shelving / Workstations	I.S.S.	VARIES	VARIES	DIS	DIS	GC	
11405-4	Walk-In Cooler / Freezer (Panelized)	I.C.S.	VARIES	VARIES	GC	Manufacturer	GC or Manufacturer (up to CM's discretion)	X
		Norlake	VARIES	VARIES				
11425	Exhaust Hoods	Stratovent (preferred supplier)	VARIES	VARIES	DIS	DIS	GC	X
		Gaylord Industries (Boiler hood)	VARIES	VARIES				
		Randell (alternate supplier)	VARIES	VARIES				
11430-2	Drink Dispensers / Line Sets	Pepsi	-	-	RSCS	Pepsi	Pepsi (Local installer)	
11435-6	Ice Machines	Manitowoc Ice Inc & Hoshisaki	Manitowac SY-1474C	S-513	DIS	Manufacturer	Manufacturer (Local Installer)	
11680	Office Computer (Taco System)	En Pointe Global Services	VARIES	F-040, F-060	TB / IT	SSP	SSP	
12100-1	Artwork	GFX	VARIES	-	DIS	DIS	GC	
		VGS						
		Creative Pallete						
12400-5	Décor	Custom Seating (Company Supplier, base décor)	VARIES	-	DIS	DIS	GC	X
		FCI (Company Supplier, base décor)	VARIES	-				
		IDX	VARIES	-				
12430	Fruitista Machine	Equipment Delivery, Install and Activation	VARIES	VARIES	DIS - Equipment; GC - Installation & Setup (notify vendor 2 weeks from install date)	DIS	Service Agents - ICEE (East) or RepTec (West)	
		FBD Equipment Manufacturer	VARIES	VARIES				
		Cornelius	VARIES	VARIES				
		Taco Bell Engineering	VARIES	VARIES				
12440	Iced Tea	Pepsi	E56150000	S-546	DIS	Supplier	GC / Supplier	
13200	CO2 - Bulk	MVE (bulk tank)	VARIES	S-580	DIS	DIS	Manufacturer (Local Installer)	
		NU CO2 (CO2 and service)	VARIES	S-580				
13700-4	CCTV	MARTCO	-	-	RSCS	MARTCO	MARTCO	X
13800-1	Energy/Building Management System	Air Care Experts	TBCCB-Varies	-	DIS	DIS	GC	
		Air Care Experts	TBCCB-Varies	-	DIS	DIS	GC	
13800-2	Hood Shutdown System	Air Care Experts	TBANS	-	Contractor	Air Care	GC	
13900-1	Fire Suppression System	Ansul	-	-	GC	GC	GC (Local Installer)	
15410	Hand Sinks	Aero	HS-Mod	N-053	DIS	DIS	GC	
15470-5	Water Filter	Shurflo	WB6-M3-22-003	-	DIS	Manufacturer	GC (see Vendor Scope - Pepsi Drink System)	
15480-3	Water Heater	AO Smith (standard)	AO Smith BTH-120 (standard)	B-215	RSCS	RSCS	GC	
		Bradford White (alternate)	-	B-215				
	Water softener	-	-	-	RSCS	RSCS	GC	
15500-1	HVAC - Test and Balance	-	-	-	Determined by CM or RCM; Approved options - GC CM/RCM	Determine by CM or RCM; Approved options - GC CM/RCM	Determined by GC / CM / RCM	X
		Melink Corp/	-	-				
		Air Care Experts	-	-				
15500-2	Commissioning	Air Care Experts	-	-				
15500-3	Visual Verification	Air Care Experts	-	-	GC	Air Care Experts	GC	
15700-1	HVAC	Trane (Franchisee Only)	VARIES	-	GC	Manufacturer	GC	X
		Lennox (Company and Franchisee Stores)	VARIES	-				
		York international (Franchisee Only)	VARIES	-				
16300-1	Switchgear - Franchisee	Accuserv	Square-D and Cutler Hammer	VARIES	DIS	DIS	GC	X
		Capital Lighting	Square-D and Cutler Hammer	VARIES	DIS	DIS	GC	
16300-2	Switchgear - Company	Capital Lighting	Square-D and Cutler Hammer	VARIES	GC or RSCS (confirm with CM at time of bid)	GC	GC	X
		Accuserv	Square-D and Cutler Hammer	VARIES	GC or RSCS (confirm with CM at time of bid)	GC	GC	
16500	Light Fixtures - Interior and Building	Capital Lighting	VARIES	-	DIS	DIS	GC	X
		Accuserv (all lighting except BOH & restrooms)	VARIES	-				
16520	Light Fixtures - Site	Capital Lighting	VARIES	-	DIS	DIS	GC	
		Accuserv	VARIES	-	DIS	DIS	GC	
16720	Telephone Communications	YUM! Telecom (Company stores)	-	-	TB	Manufacturer	Manufacturer (Local Installer)	X
		By owner through local phone service provider (franchise)	-	-	Franchisee	Manufacturer	Manufacturer (Local Installer)	
16820-3	Music System	Mood Media	-	F-131	TB	Manufacturer	Manufacturer (Local Installer)	X
	Coffee Brewer	Bunn	42300.0008	S-547	RSCS	RSCS	GC	
	Floor and Wall Tile	Creative Materials	-	-	GC	Manufacturer	GC	X

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ENDEAVOR 2.0
SCOPE OF WORK

SW1.0

PLOT DATE: 3/31/2022 1:03:40 PM

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Installation, Start Up and Pre-Commissioning Checklist

☐ = Responsible Party
Initial When Completed

Columns: Standard RTU | Multi-Speed RTU | Reference # | PROCESS | GC - General Contractor | EC - Electrical Contractor | MC-Mechanical Contractor | PC-Plumbing Contractor | AB-Air Balance Agency | Remarks | CA-Commissioning Agent Functional Verification (CA Contracted by Owner)

Standard RTU	Multi-Speed RTU	Reference #	PROCESS
		1	**Package Units**
X	X	2	Reference and abide to all instructions in manufacturers Installation, Startup, Operation and Maintenance literature
X	X	3	Units are set level
X	X	4	Unit and plenums align to each other
X	X	5	Units and plenums are properly sealed to each other
X	X	6	All loose shipped components are relocated and installed per manufacturers instructions
X	X	7	a) economizer eyebrow, skirts and mist eliminator installed
X	X	8	b) economizer dampers and linkage installed and operable
X	X	9	c) economizer wiring connected and completed
X	X	10	d) relief damper or power exhauster installed and operable
X	X	11	e) smoke detectors and sample tubes relocated and installed per manufacurers instructions
X	X	12	Utilities are installed and ON to the units
X	X	13	a) power on and breakers sized to unit rating
X	X	14	b) phases correct
X	X	15	c) gas on
X	X	16	d) gas gooseneck or pipe capacity meets or exceeds unit capacity
X	X	17	e) condensate line is piped per plan
X	X	18	f) condensate vent is on leaving side of trap
		19	
X	X	20	No thermostat, smoke detector, remote enunciator or any other wiring runs though the plenums
X	X	21	Manufacturers start up procedure has been followed and all units evaporator fan operates through all fan stages per manufacturers instructions
X	X	22	Manufacturers start up procedure has been followed and all units cycle through all heating stages per manufacturers instructions
X	X	23	Manufacturers start up procedure has been followed and all units cycle through all cooling stages per manufacturers instructions
X	X	24	Manufacturers start up procedure has been followed and all units cycle through all economizer stages per manufacturers instructions
		25	
		26	
		27	
		28	**Ductwork**
X	X	29	All ductwork and registers are installed per plan
X	X	30	All starters and or take offs are radiused per plan.
X	X	31	Ductwork from the exhaust register over production line to EF-2 fan base is 100% rigid per plan
X	X	32	Balance dampers are in sleeves on axles with locking quadrant, not located in any starter collars, "T"s or "Y"s and located per plan
X	X	33	Balance damper handles are flagged to identify their location
		34	
		35	
		36	**Economizer**
X	X	37	All mechanical components related to the economizer have been installed
X	X	38	"Blank off" plate under economizer eyebrow has been installed
X	X	39	Barometric relief damper operates freely
X	X	40	Input sensors for the Economizer have been properly located and connected to the Economizer
X	X	41	Economizer has been tested to perform "Free" cooling when ambient conditions are below 55 degrees
X	X	42	Mechanical cooling stages on when Economizer cooling is not available
X	X	43	Mechanical cooling stages on with the Economizer cooling when conditioned space temperature rises and requires two stage cooling
X	X	44	Economizer damper positions to minimum damper position when set
		45	
		46	**Smoke Detectors**
X	X	47	Smoke detector option has been included in package unit
X	X	48	Return side smoke detector has been relocated from its shipping position to the factory provided installation location in the return section of the package unit
X	X	49	All smoke detector sample tubes are properly located per manufacturers design
X	X	50	The return smoke detector in each unit has been tested for unit shutdown
X	X	51	The supply smoke detector in each unit has been tested for unit shutdown
X	X	52	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed
		53	
		54	**Remote Smoke Detector Enunciators and Resets**
X	X	55	A remote smoke detector enunciator and reset has been installed in the managers office for each package unit
X	X	56	RTU 1 supply side smoke detector alarm sets off the visual and audible remote
X	X	57	After triggering RTU 1 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation
X	X	58	RTU 1 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 1
X	X	59	After triggering RTU 1 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation
X	X	60	RTU 2 supply side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2
X	X	61	After triggering RTU 2 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation
X	X	62	RTU 2 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2
X	X	63	After triggering RTU 2 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation
X	X	64	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed
		65	
		66	**Power Exhauster**
X	X	67	Power Exhauster has been installed
X	X	68	Power Exhauster "On" setpoint has been set and turns on and off at correct economizer opening percentage

Installation, Start Up and Pre-Commissioning Checklist

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Standard RTU	Multi-Speed RTU	Reference #	PROCESS
		69	
		70	**Fire Supression System Shutdown**
X	X	71	TBANS-1 has been installed per plan location
X	X	72	TBANS-1 has dedicated power to terminals TB-PWR
X	X	73	TBANS terminals TB1-1 and TB1-2 are wired to "Closed when Cocked" terminals of fire suppression system microswitch per detail
X	X	74	RTU 1 and RTU 2 low voltage control power is wired through terminals in TBANS-1
X	X	75	If present, electronic gas valve is wired through TBANS
X	X	76	If required, TBANS to hoodstat has been wired for EF-1 on during supressant discharge event
X	X	77	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed
		78	
		79	
		80	**Thermostat**
X	X	81	Thermostats are wired to package units per thermostat and unit wiring diagrams
X	X	82	Package units equiped with two stage cooling have each cooling stage individualy wired and controled from their thermostat.
X	X	83	Package units equiped with two stage heating have each heating stage individualy wired and controled from their thermostat.
X	X	84	Thermostats are wired to TBCCB Control Box per Detail on plan sheet E-6
X	X	85	Thermostats are programmed to Taco Bell parameters
X	X	86	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed
X		87	
		88	**Hoodstat**
X	X	89	Hoodstat has been installed in duct or hood per plan
X	X	90	Hoodstat is wired to terminals TB2 of the TBCCB Control Box
X	X	91	Hoodstat microswitch closes at 85 degrees
		92	
		93	
		94	**TBCCB & Interlock**
X	X	95	Unswitched power is provided to H=HOT and N=Neutral and G=Ground terminals in the TBCCB Control Box
X	X	96	Hoodstat wires are landed on terminals TB2 of the TBCCB Control Box
X	X	97	Low voltage wiring has been completed between RTU 1 and TB-1 of the TBCCB Control Box
X	X	98	Low voltage wiring has been completed between RTU 2 and TB-1 of the TBCCB Control Box
X	X	99	Photocell is wired to the TBCCB per detail
X	X	100	Any optional switches, if used, have been installed to TBCCB per schematic
X	X	101	"Occupied" and "Unoccupied" times for the building have been programmed into Channel/Switch 1 of the Timeclock in TBCCB Control Box
X	X	102	"Open" and "Closed" times for Taco Bell sales have been programmed into Channel/Switch 2 of the Timeclock in TBCCB Control Box
X	X	103	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed
		104	
		105	**Visual Verification**
X	X	106	Visual Verification installation certificate has been received for Smoke Detectors
X	X	107	Visual Verification installation certificate has been received for Remote Smoke Detectors Ennunciators and Resets
X	X	108	Visual Verification installation certificate has been received for Thermostat and Remote Sensors installation
X	X	109	Visual Verification installation certificate has been received for TBANS-1 installation
X	X	110	Visual Verification installation certificate has been received for TBCCB
X	X	111	Visual Verification installation certificate has been provided to designated authority (Owner, GC, Air Balancing Agency, Commissioning Agency)
		112	
		113	
		114	**Lighting**
X	X	115	Interior lights are wired through the TBCCB per plan and schematic
X	X	116	Occupancy sensor controlled lighting installed in restrooms
X	X	117	Daylighting and dimming box (DDCB-ACI) is installed in jurisdictions requiring daylight harvesting and or dimming of interior lights
X	X	118	Photocell is wired to the TBCCB control box per plan and schematic
X	X	119	Exterior lights are wired to the TBCCB control box per plan and schematic
X	X	120	Sign lights are wired to the TBCCB control box per plan and schematic
X	X	121	TBCCB timeclock is programmed to Taco Bell parameters
X	X	122	Manual override of TBCCB control box timeclock activates lighting circuits
		123	
		124	**Commissioning**
X	X	125	All Visual Verification installation certificates have been received
		126	
		127	**Air Balance Supplement**
X	X	128	Balancing performed in accordance to ASHRAE Standard 111-2008, NEBB, TABB or AABC standards
X	X	129	Perform full fan speed adjustments after exhaust fan adjustments and supply air distribution adjustments have been made
X	X	130	Perform outside air adjustment after all other balance adjustments are complete
X	X	131	Perform outside air adjustment at full evaporator fan speed operating point
	X	132	Perform outside air adjustment at medium fan speed operating point
	X	133	Perform outside air adjustment at low fan speed operating point
X	X	134	Verify lobby doors closures have been adjusted for ADA compliance
X	X	135	Verify lobby doors closure operation during full economizer function of both package units and note result in air balance report
X	X	136	Verify pressure relief system operation in full economizer operation
X	X	137	Adjust power exhauster "ON" and "OFF" positions to mitigate door closure issues. Note if no power exhauster is available.
X	X	138	Provide copy of air balance report to Commissioning Agent

GPD Engineering and Architecture
Professional Corporation - C3879

520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

DATE	REMARKS
01.14.22	Issued for Permit
03.17.22	Issued for RSCS Bid
04.01.22	Issued for Bid

CONTRACT DATE:	12.08.21
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314703
STORE NUMBER:	454826
PA/PM:	JW
DRAWN BY.:	
JOB NO.:	2020088.07

TACO BELL

109 Tuckaseege Rd.
Mount Holly, NC 28120

ENDEAVOR 2.0
INSTALLATION START-UP PRE-COMM CHECK LIST

SW2.0

PLOT DATE: 3/31/2022 12:49:39 PM

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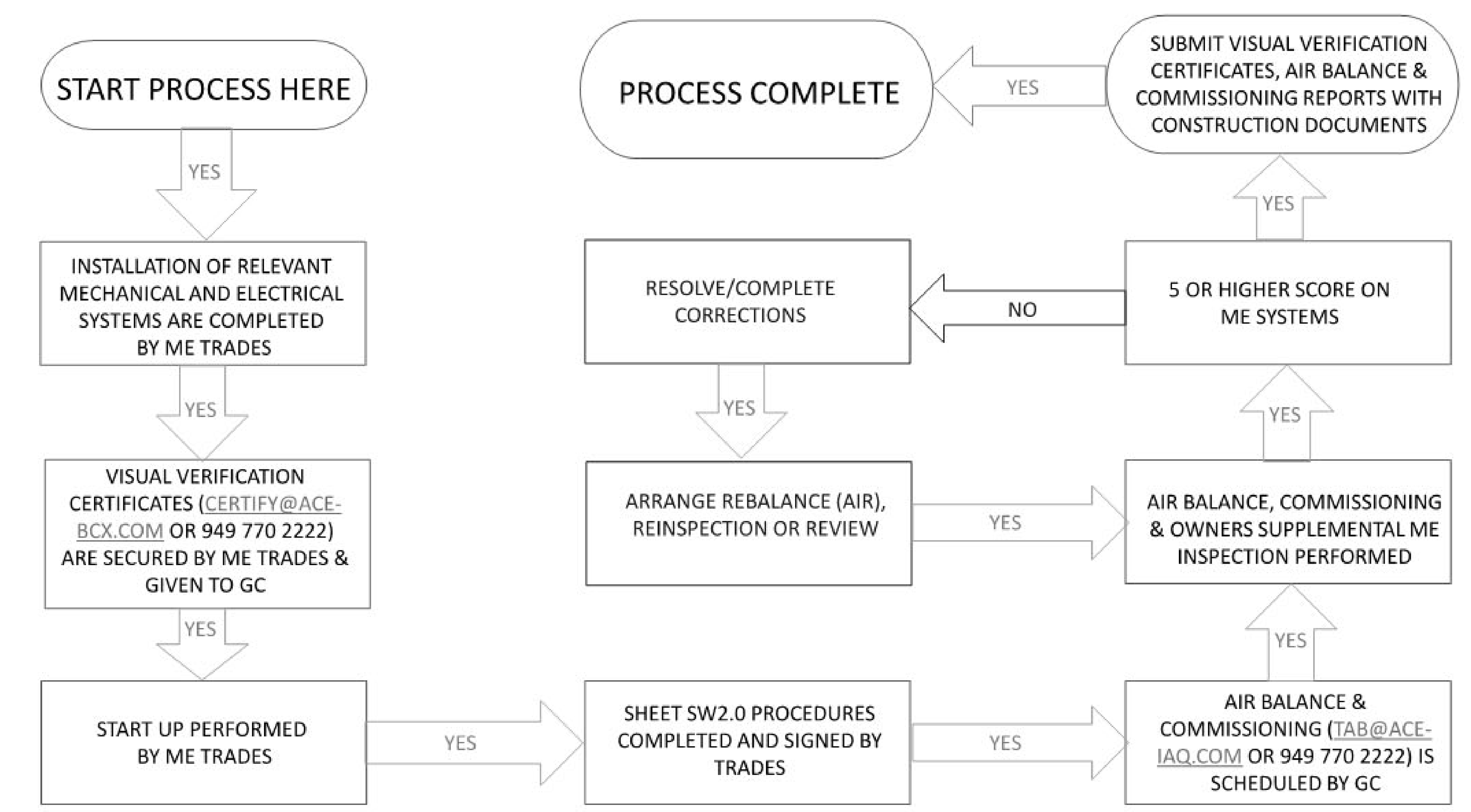
MECHANICAL – ELECTRICAL (ME) BALANCING & COMMISSIONING SEQUENCE & PROCEDURE



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ENDEAVOR 2.0
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SW2.1

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