

TACO BELL

MODERN EXPLORER T40



TACO BELL™

19000 NORTHLINE ROAD SOUTHGATE, MI 48195

PROJECT GENERAL NOTES

- A. ALL WORK SHALL CONFORM TO THE 2015 EDITION OF THE MICHIGAN BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND REGULATIONS OF THE CITY OF SOUTHGATE, MI.
- 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, REFERENCED ON THE CIVIL CONSTRUCTION DOCUMENTS AND IS INCLUDED IN THESE DOCUMENTS.
- E. THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL INVESTIGATION DATED NOVEMBER 7, 2017 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 YUM BRANDS 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.

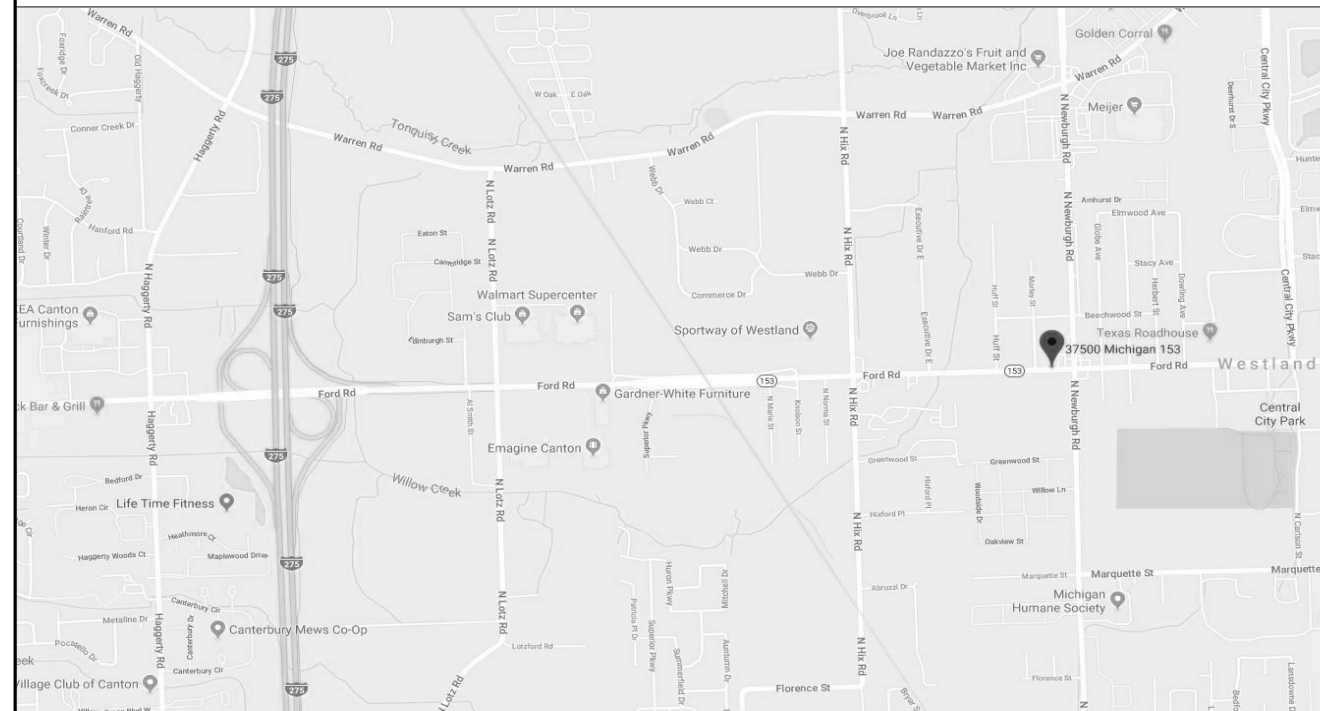
REFERENCE SYMBOLS

	ROOM NAME		DETAIL NUMBER
	SHEET NUMBER		DETAIL SHEET
	ELEVATION NUMBER		DOOR NUMBER
	CEILING HEIGHT		WINDOW NUMBER / DECOR ITEM NUMBER
	BLDG. SECTION LETTER		EXTERIOR WALL FINISH NUMBER
	BLDG. SECTION SHEET		KEY NOTE
	DETAIL NUMBER		EQUIPMENT NUMBER
	DIRECTION OF DETAIL		ROOM FINISH NUMBER
	DETAIL SHEET		INTERIOR ELEVATION DESIGNATION
	REVISION NUMBER		SHEAR WALL TYPE (STRUCTURAL)
	BLDG. HEIGHT REFERENCE POINT		EQUIPMENT / FIXTURE NUMBER (M.E.P.)
	BLDG. HEIGHT REFERENCE POINT		INDICATES SUSTAINABLE DESIGN

SIGN, SEE ELEVATIONS

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

VICINITY MAP



PROJECT SUMMARY

LEGAL JURISDICTION: CITY OF SOUTHGATE
BUILDING CODE: 2015 MICHIGAN BUILDING CODE
MECHANICAL CODE: 2015 MICHIGAN MECHANICAL CODE
PLUMBING CODE: 2015 MICHIGAN PLUMBING CODE
ELECTRICAL CODE: 2014 NATIONAL ELECTRIC CODE
FIRE CODE: 2009 INTERNATIONAL FIRE CODE
ENERGY CODE: 2009 IECC
HEALTH CODE: 2009 MICHIGAN MODIFIED FDA FOOD CODE
ACCESSIBILITY: ICC ANSI A117.1 & 2015 MICHIGAN BUILDING CODE
BUILDING AREA: 1,853 S.F.
SEATING: 52 (40 INTERIOR, 12 EXTERIOR)
OCCUPANCY: A2
TYPE CONSTRUCTION: TYPE VB
PHONE LINES: 25 PAIR CABLE IN 2" CONDUIT
ELECTRIC SERVICE: 600 AMPS / 3 PHASE / 120-208 VOLT
GAS: 817,000 BTUH

DESIGN CRITERIA

WIND SPEED: 115 M.P.H. 3SGVLT / EXPOSURE B
SEISMIC DESIGN CATEGORY: B
ROOF LIVE LOAD: 20 P.S.F.

LEGAL DESCRIPTION

REFER TO CIVIL DRAWINGS

PROJECT DIRECTORY

OWNER YUM! BRANDS, INC. 1 GLEN BELLWAY IRVINE, CA 92618 CONTACT: STEVE PULCHEON PHONE: 951.315.3462	ARCHITECT GPD GROUP, PROFESSIONAL CORPORATION 520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: ELLEN SELLE PHONE: 330.572.2100
CONSTRUCTION MANAGER YUM! BRANDS, INC. 1 GLEN BELLWAY IRVINE, CA 92618 CONTACT: STEVE PULCHEON PHONE: 951.315.3462	STRUCTURAL ENGINEER GPD GROUP, PROFESSIONAL CORPORATION 520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: ELLEN SELLE PHONE: 330.572.2100
CIVIL ENGINEER GPD GROUP, PROFESSIONAL CORPORATION 520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: ELLEN SELLE PHONE: 330.572.2100	MECH. / ELEC. ENGINEER GPD GROUP, PROFESSIONAL CORPORATION 520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: ELLEN SELLE PHONE: 330.572.2100
GEOTECHNICAL ENGINEER INTERTEK-PSI 37485 INTERCHANGE DRIVE FARMINGTON HILLS, MI 48335 CONTACT: KEVIN DUBNICKI, P.E. PHONE: 248.957.9911	LANDSCAPE ARCHITECT GPD GROUP, PROFESSIONAL CORPORATION 520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: ELLEN SELLE PHONE: 330.572.2100

UTILITY CONTACTS

SEWER CITY OF SOUTHGATE PUBLIC SERVICES 1440 DIX-TOLEDO HIGHWAY SOUTHGATE, MI 48195 CONTACT: SONYA PHONE: 734.258.3074	TELEPHONE AT&T CONTACT: BRIAN GRIFFIN PHONE: 313.240.5486
WATER CITY OF SOUTHGATE PUBLIC SERVICES 1440 DIX-TOLEDO HIGHWAY SOUTHGATE, MI 48195 CONTACT: SONYA PHONE: 734.258.3074	ROADS WAYNE COUNTY 33809 MICHIGAN AVENUE WAYNE, MI 48184 CONTACT: ALI ALJAWARD PHONE: 734.595.6504
GAS DTE ENERGY (GAS) ONE ENERGY PLAZA 2020 WCB DETROIT, MI 48226 CONTACT: NEW CONSTRUCTION GAS PLAN- LOSHANDA PHONE: 800.338.0178	TRASH REPUBLIC CONTACT: VIVIANA 5011 SOUTH LILLY ROAD CANTON, MI 48188 PHONE: 800.878.4626
ELECTRIC DTE ENERGY CONTACT: NEW CONSTRUCTION ELECTRIC PLAN - LISA PHONE: 800.338.0178	HEALTH WAYNE COUNTY HEALTH, VETERANS & COMMUNITY WELL. 33030 VAN BORN WAYNE, MI 48184 CONTACT: PHYLLIS FICZYCZ PHONE: 734.727.7400

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08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE:	XX.XX.18
BUILDING TYPE:	T40M-O
PLAN VERSION:	DEC 2017
BRAND DESIGNER:	
SITE NUMBER:	312529/445209
STORE NUMBER:	2017088.20

TACO BELL

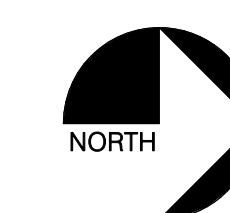
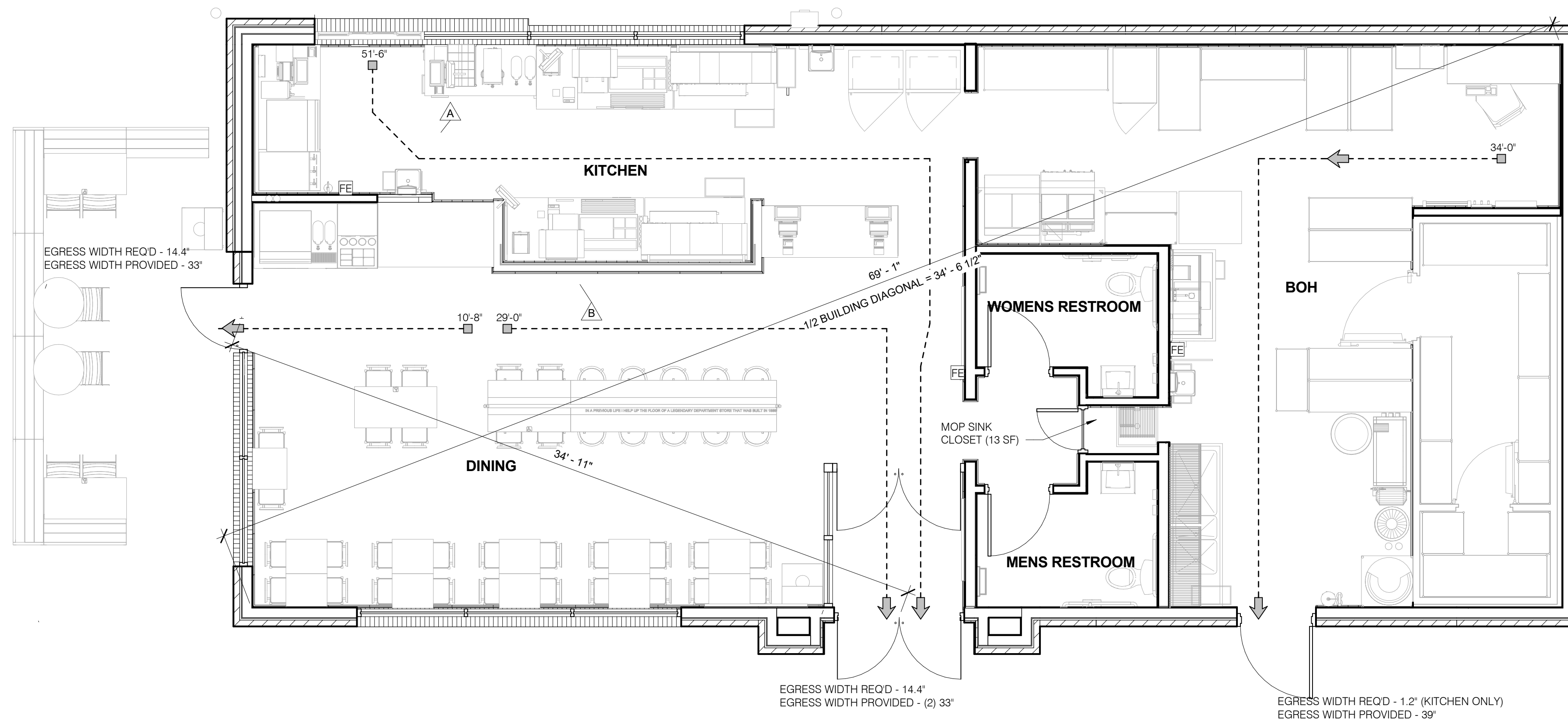
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195



TITLE SHEET

T1.0

PLOT DATE: 8/7/2018 8:58:01 AM



08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
06.07.18	CLIENT COMMENTS
05.24.18	HEALTH COMMENTS
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

LIFE SAFETY PLAN 1/4" = 1'-0" **A**

1,736 GROSS SF (BUILDING)

SPACE	AREA	LOAD FACTOR	OCCUPANTS
ASSEMBLY (UNCONCENTRATED)	963 SF	15 NET	65
KITCHEN (COMMERCIAL)	1,186 SF	200 GROSS	6
STORAGE/MECHANICAL	13 SF	300 GROSS	1
TOTAL	2,162 SF		72 OCCUPANTS

- FE FIRE EXTINGUISHER LOCATION.
- ← EMERGENCY EXIT
- - - TRAVEL DISTANCE
- ⊗ EXIT SIGNS

OCCUPANT LOAD CALCULATIONS **C**

LIFE SAFETY LEGEND N.T.S. **B**

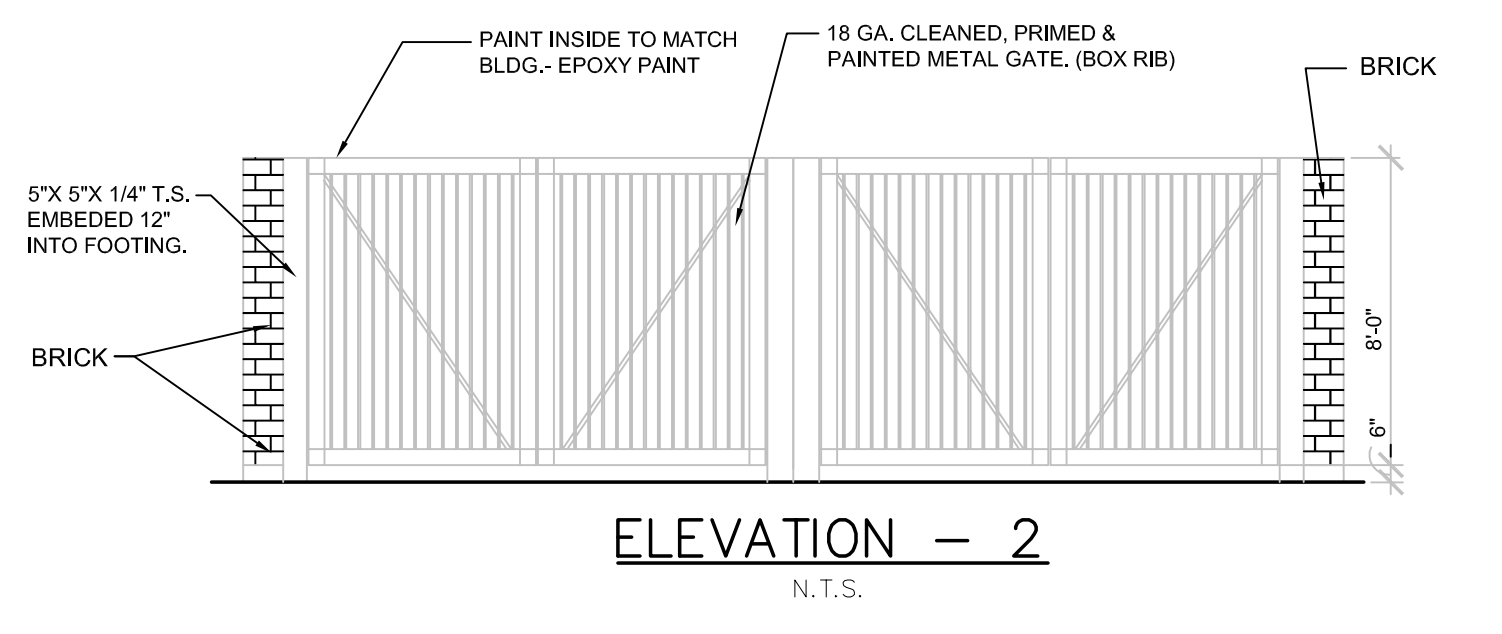
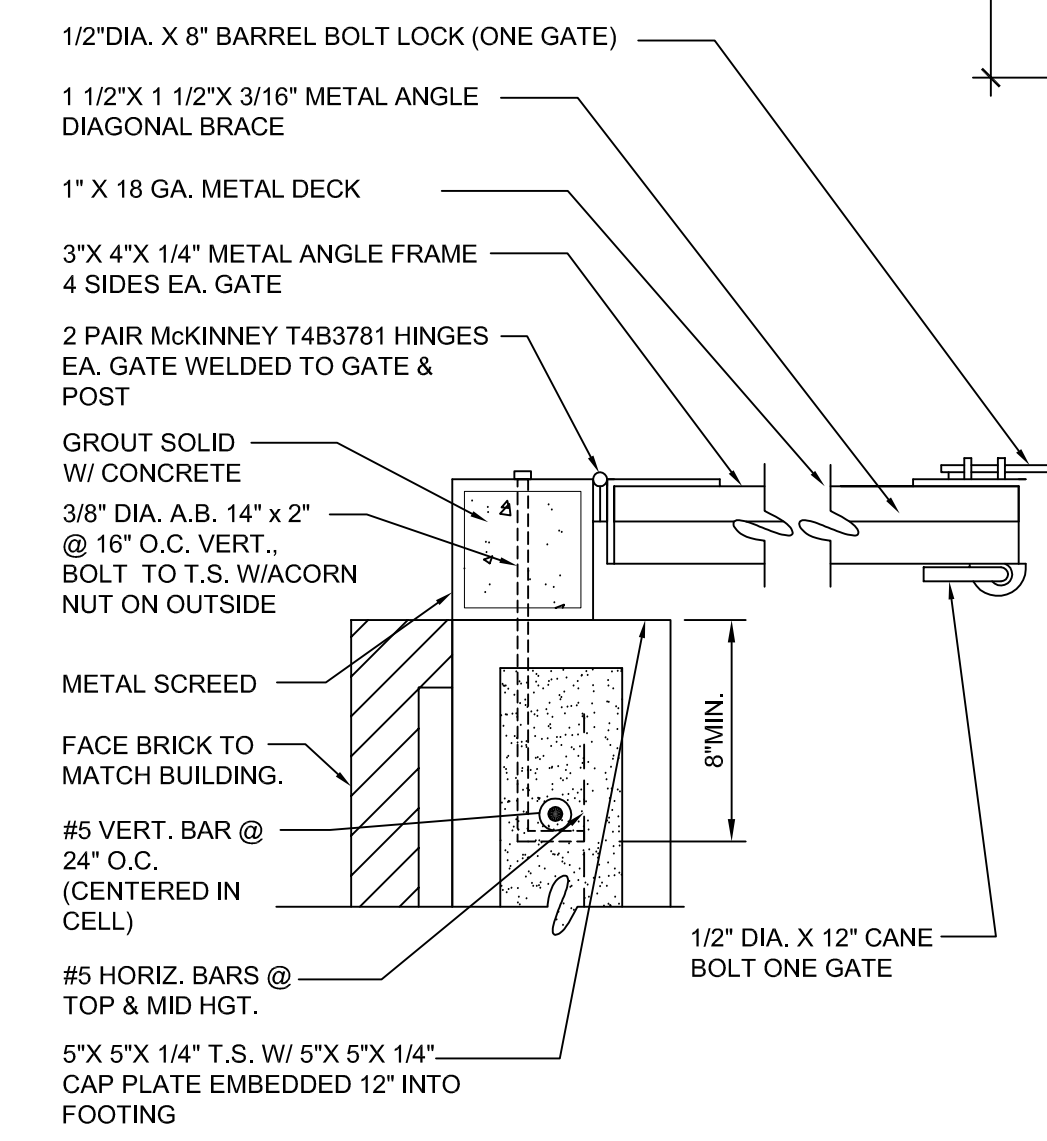
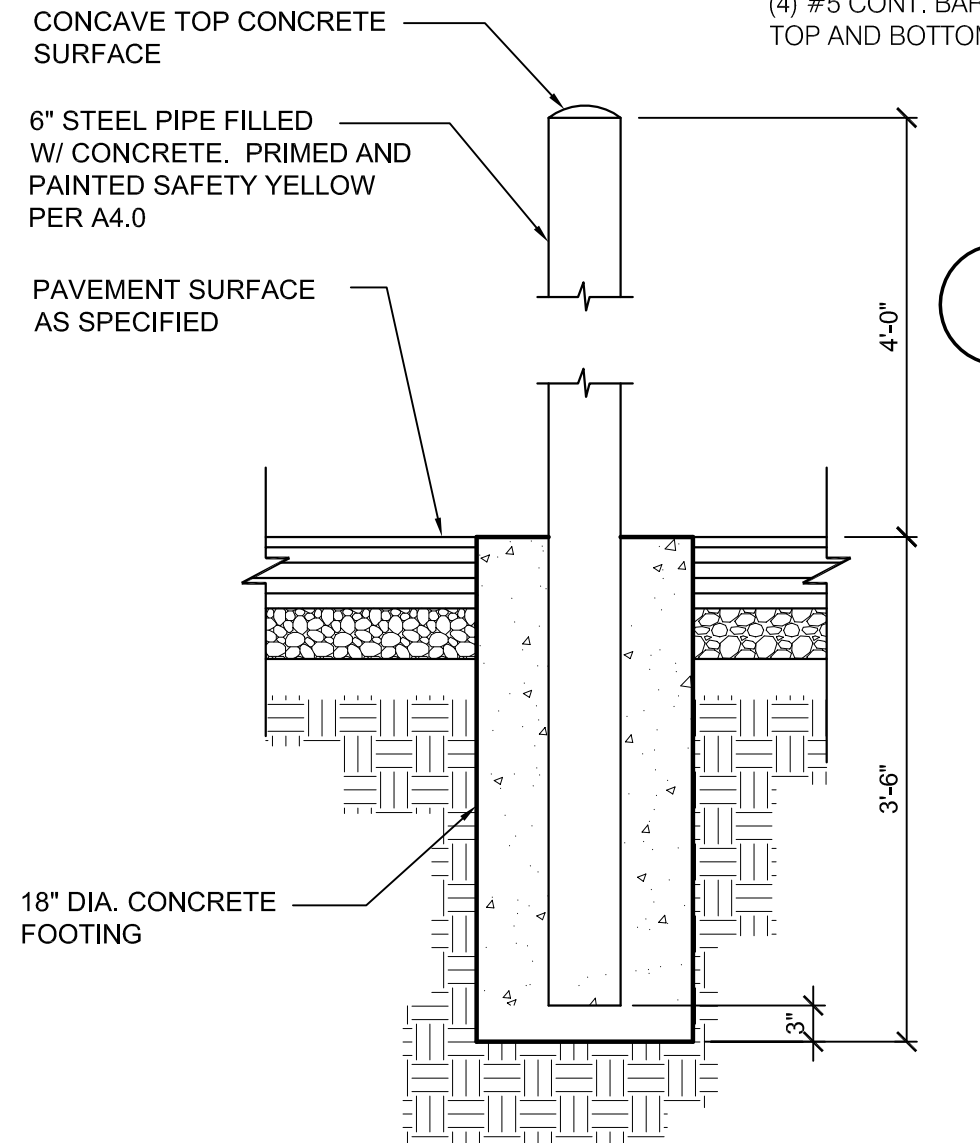
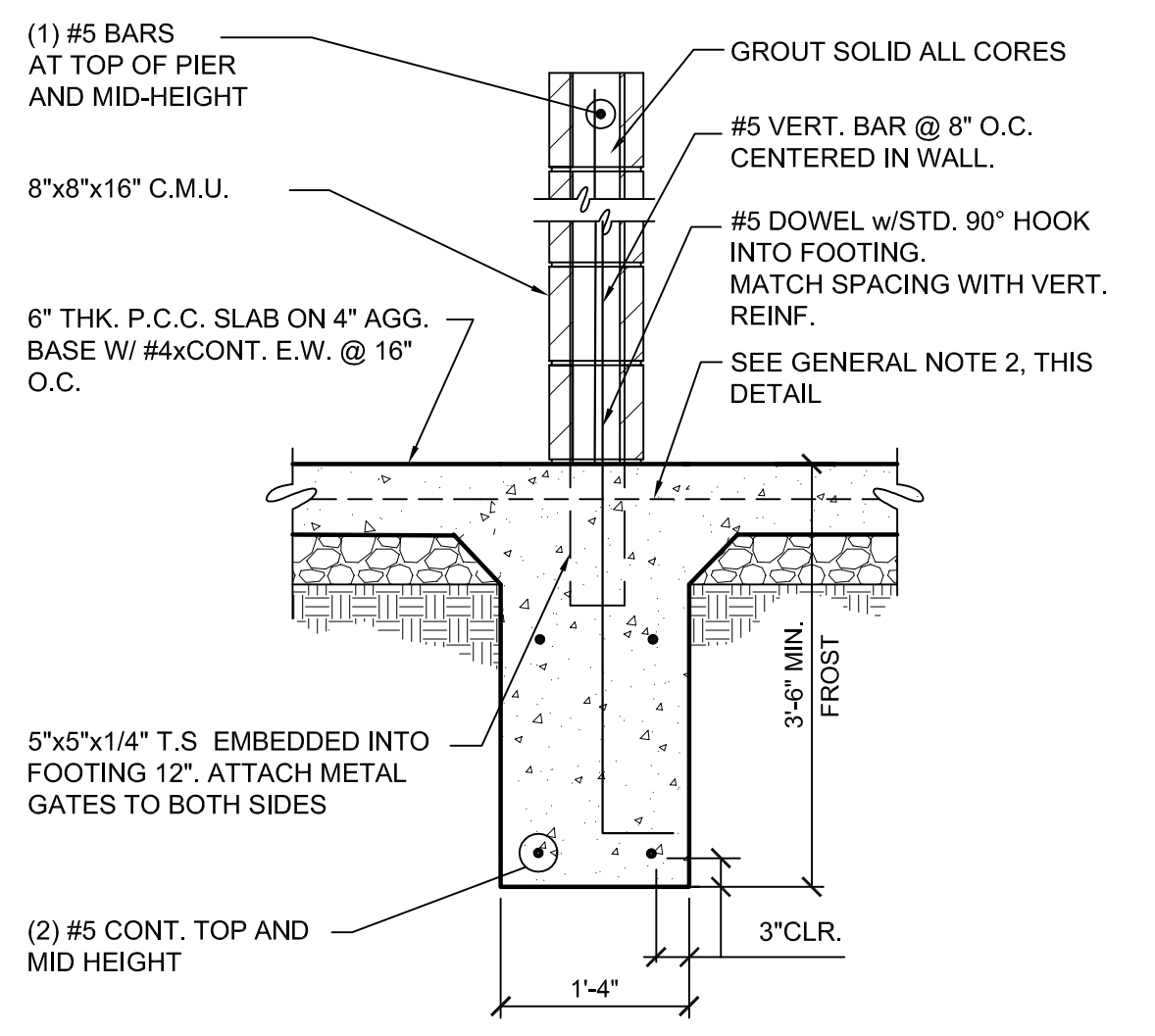
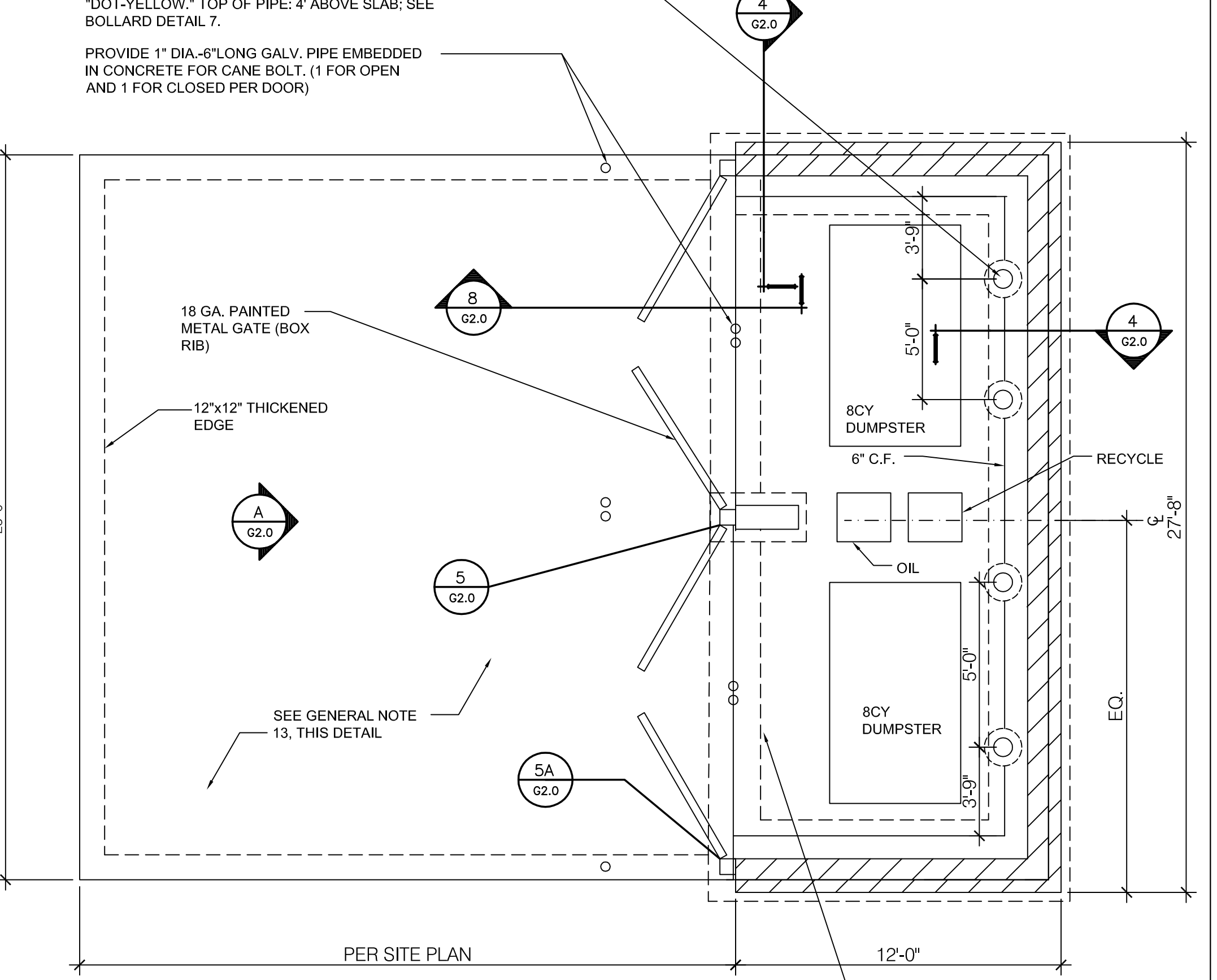
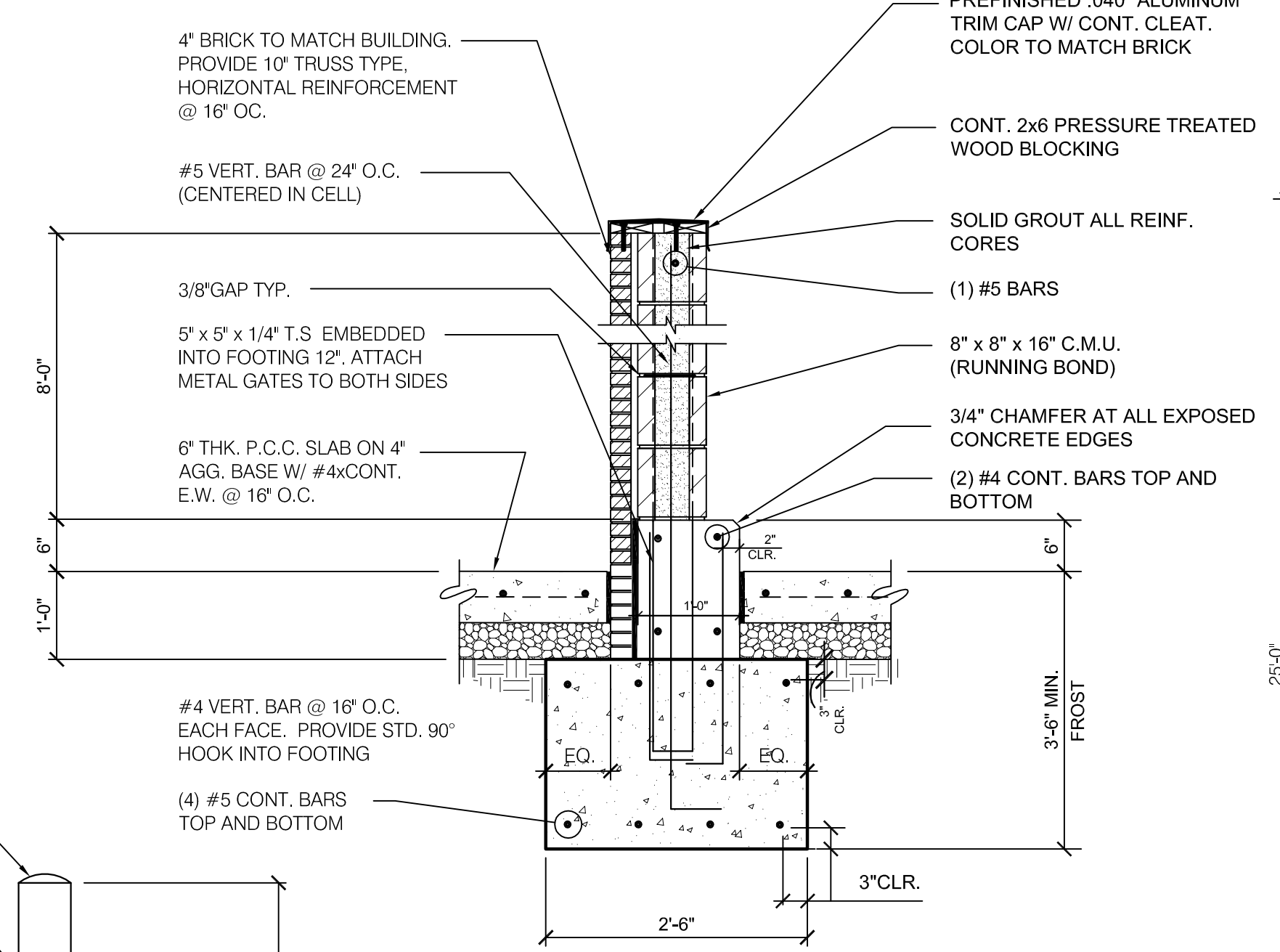
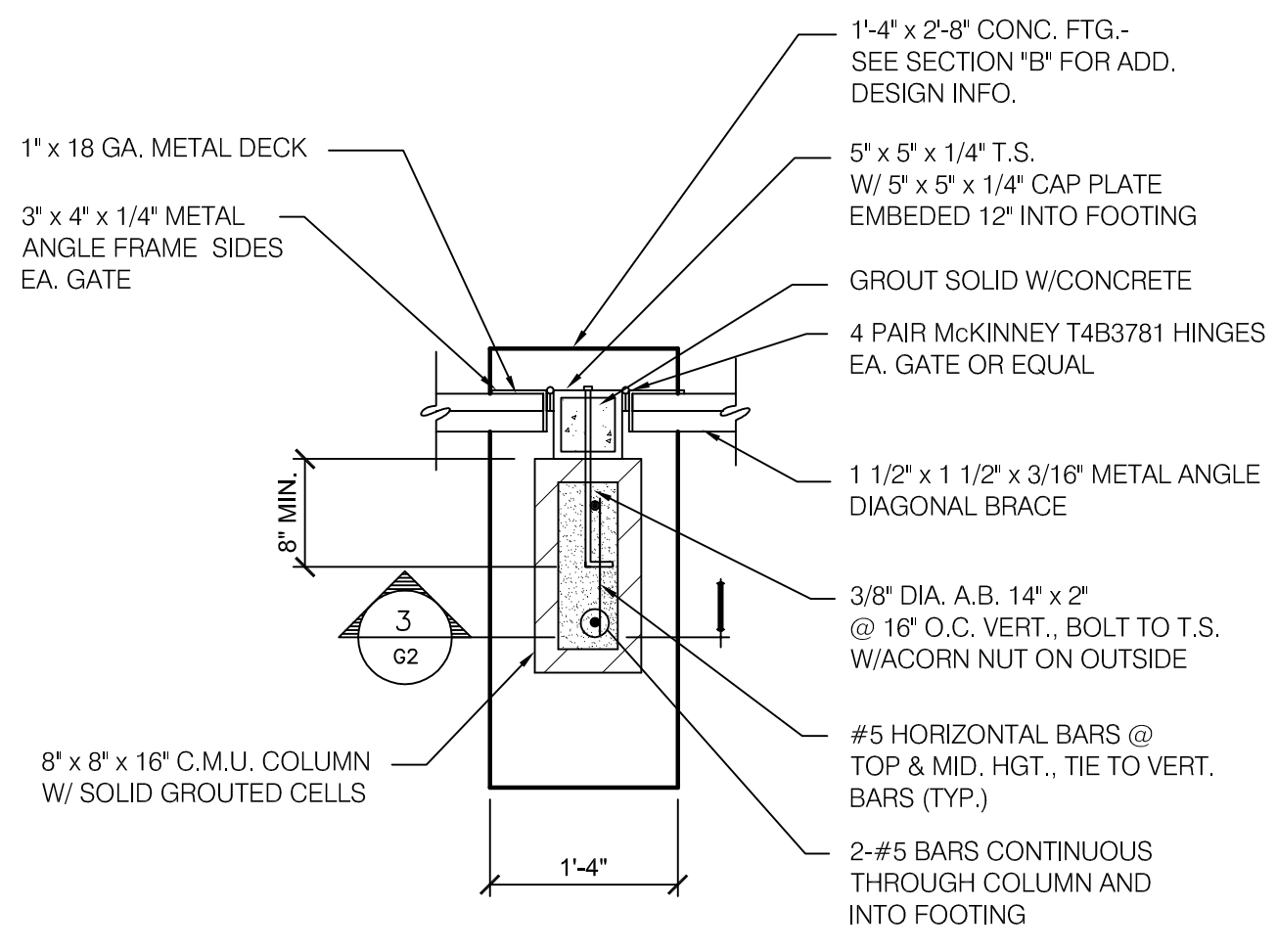
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19000 NORTHLINE ROAD
SOUTHGATE, MI 48195



LIFE SAFETY PLAN

T2.0

PLOT DATE: 8/7/2018 8:58:03 AM



GATE NOTES:
(2) EQUAL (#6-0") WIDE x 6'-0" HIGH MTL. GATES, TYPE 'B' 1 1/2" DECKING, 22GA. W/ T.S. 5 X 5 X .1875 BAR CROSS BRACING WELD AND GRIND SMOOTH ALL CONNECTIONS, TYP. PRIME AND PAINT COLOR TO MATCH PLASTER.

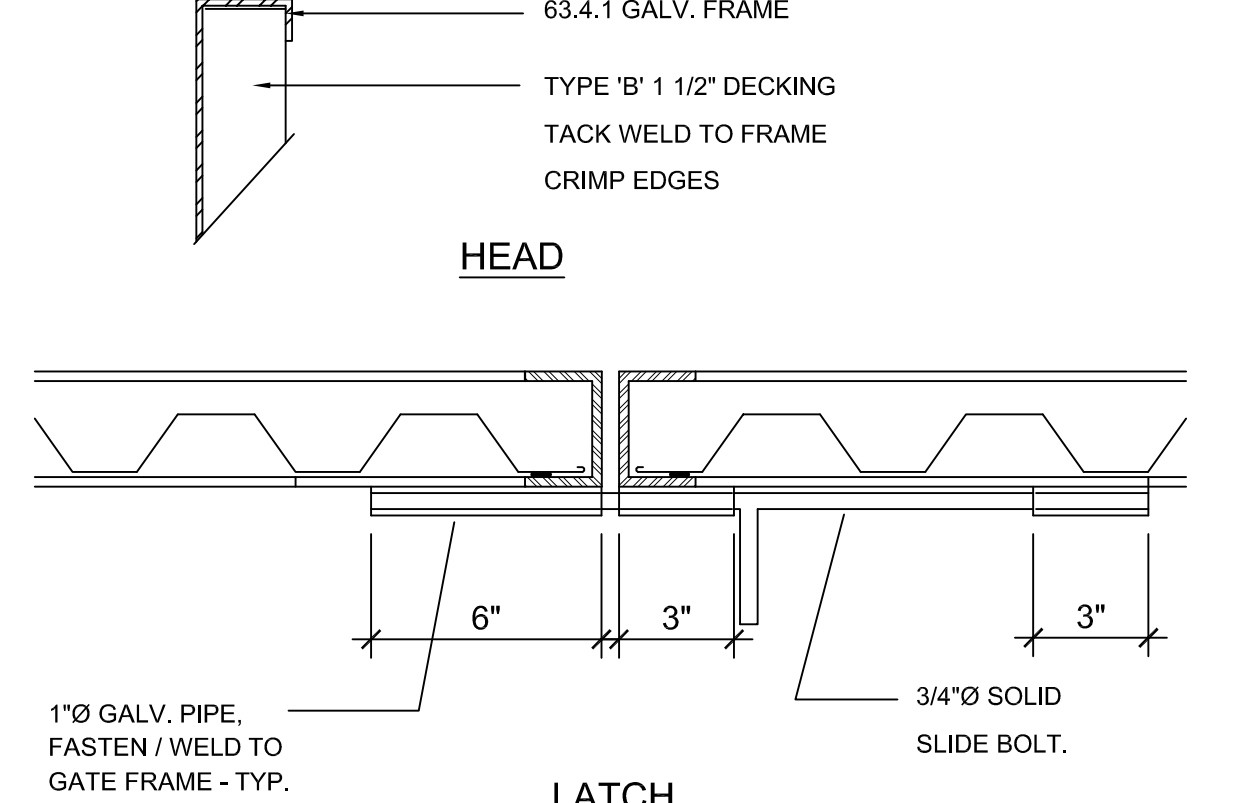
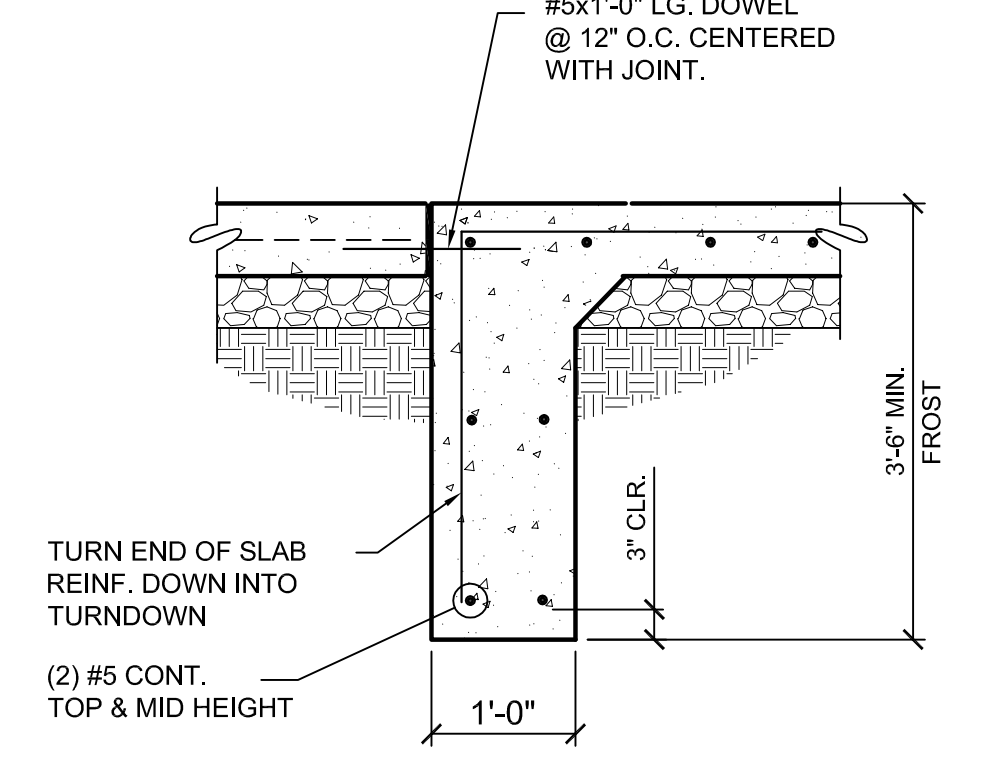
GATE HARDWARE:
ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVANIZED.
GATE STOP - MUSHROOM TYPE OR FLUSH PLATE WITH ANCHORS SET IN CONCRETE TO ENGAGE THE CENTER DROP ROD OR PLUNGER BAR.

- NOTES:**
1. LOCATION SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
 2. AREAS SHALL BE ACCESSIBLE FOR DELIVERY AND COLLECTION.
 3. GATES SHALL BE CORRUGATED METAL DOORS AND MUST BE APPROVED BY PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.
 4. GATE LATCHES SHALL BE OF THE PLUNGER BAR TYPE OR EQUIVALENT AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.
 5. SEE ATTACHED SPECIFICATIONS, NOTES AND PROCEDURES

- TRASH ENCLOSURE DETAIL MATERIAL SPECIFICATIONS:**
1. CONCRETE BLOCK: 6" MINIMUM IN SIZE: ASTM C90.
 2. REINFORCING STEEL: ASTM 615. GRADE 60.
 3. ACCEPTABLE SOIL TYPES:
A. MIN. ALLOWABLE BEARING: 2000 LBS/SQ. FT
B. MIN. LATERAL BEARING: 100 LBS/SQ. FT./FT.
C. MAX EXPANSION INDEX: 20
 4. CONCRETE: 4000 LBS/SQ. IN. IN 28 DAYS.
 5. MORTAR: 1:1/4:3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND, BY VOLUME), MIXED TO PLASTIC CONSISTENCY. REFER TO UBC TABLE 24-A FOR OTHER TYPES OF CEMENT.
 6. GROUT: 1:1/10:3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND BY VOLUME), MIX TO FLOW WITHOUT SEGREGATION. GROUT MAY CONTAIN 2 PARTS PEA GRAVEL (3/8" MAX. SIZE). MINIMUM COMPRESSIVE STRENGTH: 2000 LBS/SQ. IN. REFER TO UBC TABLE 24-B FOR OTHER TYPES OF CEMENT.

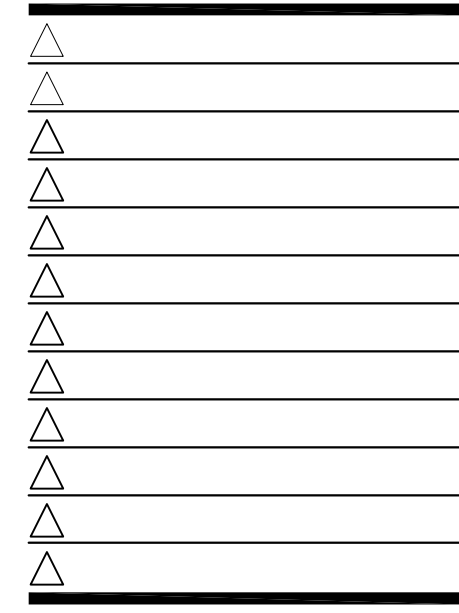
1. THIS DESIGN IS FOR AVERAGE CONDITIONS AND MAY NOT BE SUITABLE FOR ALL CASES. IT IS RECOMMENDED THAT A LICENSED CIVIL OR STRUCTURAL ENGINEER BE CONSULTED.
2. FOOTINGS SHALL EXTEND 3'-6" MINIMUM BELOW FINISH GRADE AND SHALL BE IN NATURAL SOIL OR CERTIFIED FILL.
3. BLOCKS TO BE STAGGERED (RUNNING BOND).
4. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE GROUTED.
5. APPROVED GROUT STOPS ARE REQUIRED BELOW HORIZONTAL STEEL IN PARTIALLY GROUTED WALLS. BAGS, NEWSPAPERS, ETC. ARE NOT APPROVED GROUT STOPS.
6. INITIAL BED JOINT SHALL BE 1/4" MIN. 1" MAX. SUBSEQUENT BED JOINTS SHALL BE 7/8" MIN., 3/4" MAX.
7. VERTICAL CONTINUITY OF CELLS SHALL BE UNOBSTRUCTED. MORTAR DROPPINGS OR OTHER FOREIGN MATTER ARE NOT PERMITTED IN CELLS AND MUST BE REMOVED.
8. EXPANSION JOINTS REQUIRED AT 60'-0" MAX. INTERVALS.
9. REQUIRED BAR LAPS:
A. VERTICAL STEEL: 30 BAR DIAMETERS.
B. HORIZONTAL STEEL: 40 BAR DIAMETERS.
C. WIRE JOINT REINFORCEMENT IN THE MORTARED BED JOINT: 75 WIRE DIAMETERS OR IN ALTERNATE BED JOINTS OF RUNNING BOND, 54 DIAMETERS PLUS TWICE THE BED JOINT SPACING.
10. WHERE HORIZONTAL WIRE JOINT REINFORCEMENT IS REQUIRED OR UTILIZED, IT SHALL BE EQUIVALENT TO TWO 3/16" DIAMETER BARS CONNECTED AT 16" INTERVALS BY NO. 9 GAUGE WELDED WIRE.
11. FOR PIPES AND CONDUIT EMBEDDED IN MASONRY, REFER TO SEC. 24-07(g). UBC.
12. 3" MIN. COVER REQUIRED FOR REINFORCEMENT IN CONCRETE WHICH IS CAST AGAINST EARTH.
13. 8" THICK CONCRETE SLAB OVER 6" THICK CRUSHED AGGREGATE. 12"x12" THICKENED EDGE FOR APPROACH SLAB. #4 REBAR @ 2'-0" O.C. EACH WAY.

2. PREGROUT: AFTER ALL BLOCKS (EXCEPT CAP) ARE IN PLACE, VERTICAL AND HORIZONTAL STEEL IS IN PLACE, GROUT STOPS (FOR PARTIALLY GROUTED MASONRY) ARE IN PLACE, AND PRIOR TO GROUTING.
3. INAL: AFTER GROUT IS IN PLACE AND PRIOR TO PLACEMENT OF CAP.



- INSPECTION PROCEDURES:**
1. FOUNDATION: AFTER TRENCHES ARE DUG, STEEL IS TIED IN PLACE AND BEFORE ANY CONCRETE IS POURED.

GENERAL NOTES:

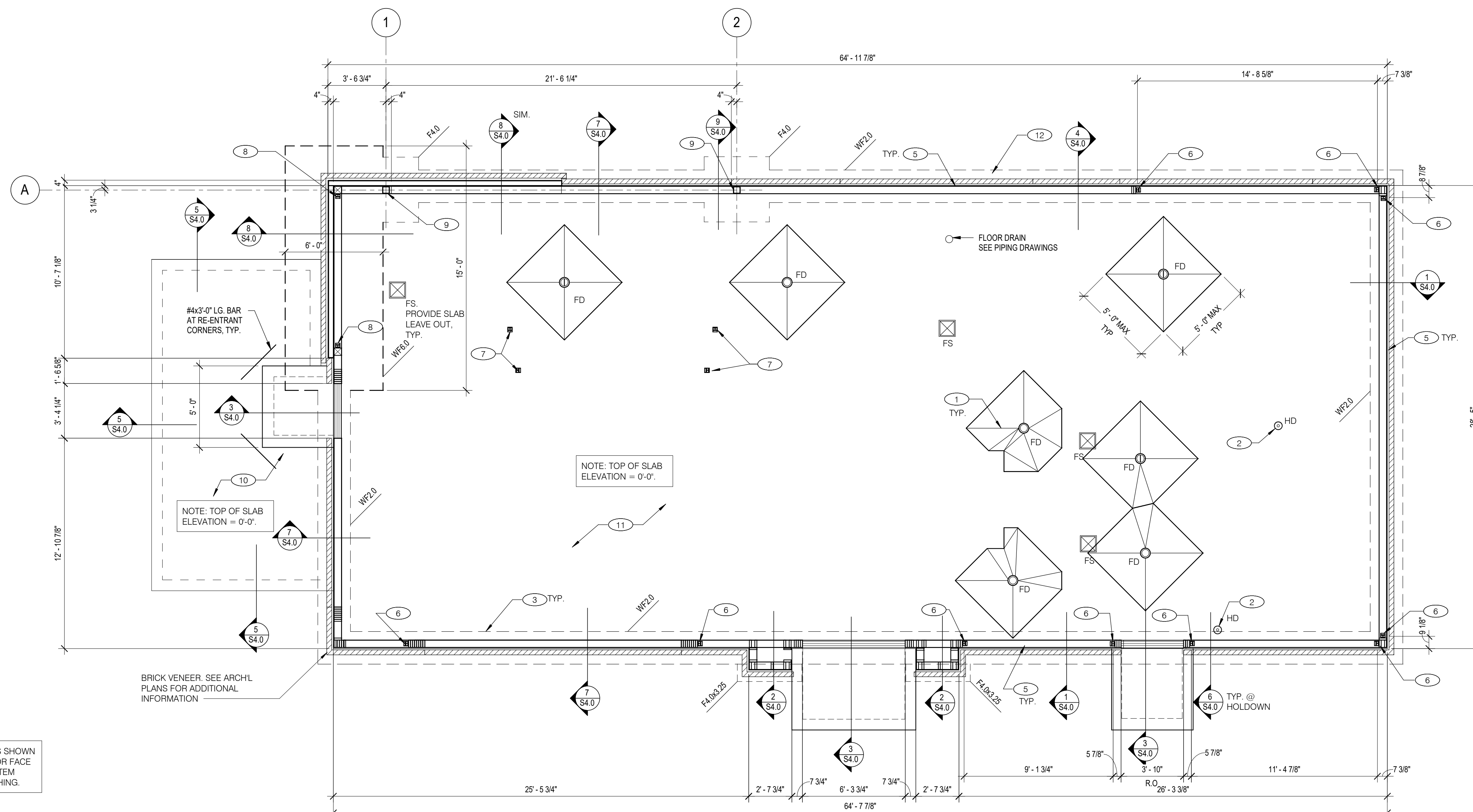


CONTRACT DATE: 01.08.18
BUILDING TYPE: T40 M-O
PLAN VERSION: DEC 2017
SITE NUMBER: 312529/445209
STORE NUMBER: 2018088.20

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NORTHLINE ROAD
SOUTHGATE, MI 48195

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MODERN EXPLORER
T40 - OPEN KITCHEN

TRASH ENCLOSURE DETAILS
G2.0



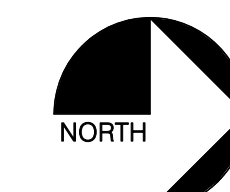
NOTE: DIMENSIONS SHOWN ARE FROM EXTERIOR FACE OF FOUNDATION STEM WALL/WALL SHEATHING.

REFER TO CIVIL PLANS FOR EXTENT OF FROST SLABS AND PATIO SLAB

NOTE: TOP OF SLAB ELEVATION = 0'-0".

NOTE: TOP OF SLAB ELEVATION = 0'-0".

BRICK VENEER. SEE ARCHL PLANS FOR ADDITIONAL INFORMATION



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

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04.16.18	ISSUED FOR PERMIT

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NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

FOUNDATION PLAN

S1.0

PLOT DATE: 8/7/2018 9:17:11 AM

DESIGN CRITERIA	SEISMIC LOADS
2015 MICHIGAN BUILDING CODE 2015 INTERNATIONAL BUILDING CODE	RISK CATEGORY: II SEISMIC IMPORTANCE FACTOR: 1.0 SITE CLASS: D
ROOF SNOW LOADS: GROUND SNOW LOAD (Pg): 20 PSF EXPOSURE FACTOR (Ce): 1.0 IMPORTANCE FACTOR (I): 1.0 THERMAL FACTOR (Ct): 1.0 FLAT ROOF SNOW LOAD (Pf): 20 PSF	MAPPED SPECTRAL RESPONSE ACCEL: Ss: 0.1006 S1: 0.0482
ROOF LOADS: LIVE LOAD: 20 PSF DEAD LOAD: 20 PSF	SPECTRAL RESPONSE COEFF.: SHORT PERIODS (SDS): 0.107 1 SEC. PERIODS (SD1): 0.077 SEISMIC DESIGN CATEGORY: B
WIND LOADS: RISK CATEGORY: II 3 SECOND GUST (ULTIMATE): 115 MPH IMPORTANCE FACTOR: 1.0 EXPOSURE CATEGORY (IMFWS): B INTERNAL PRESSURE COEFF.: +/- 0.18	WOOD SHEAR WALLS RESPONSE MOD. FACTOR (R): 6.5 DESIGN BASE SHEAR (V): 0.0165W ANALYSIS BY SIMPLIFIED PROCEDURE
PROVIDE SHOP DRAWINGS AND CALCULATIONS PREPARED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF MICHIGAN FOR SIGNS AND ROOF TRUSSES.	

- FOUNDATION**
- FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERING REPORT BY INTERTEK-PSI DATED NOVEMBER 7, 2018, PROJECT NO. 03811035.
 - CONTRACTOR TO PROVIDE FOUNDATION & FOOTING AS REQUIRED FOR PYLON OR MONUMENTAL SIGN. SEE ELECTRICAL DRAWINGS FOR DETAIL.
 - COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF GEOTECHNICAL REPORT. FOUNDATION DESIGN IS BASED ON 2,000 PSF ALLOWABLE BEARING CAPACITY AFTER REMOVAL AND REPLACEMENT OF NATIVE SOILS WITH ORGANICS PER THE GEOTECHNICAL REPORT. UNCONTROLLED FILL AND NATIVE SOIL WITH ORGANICS WAS FOUND APPROXIMATELY 1 FOOT TO 4.5 FEET BELOW GRADE. REFER TO SECTION 5 Z FOUNDATION DESIGN IN THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
 - CONTRACTOR SHALL TREAT SOIL BELOW SLAB FOR TERMITES.
 - REFER TO THE GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS OF EARTHWORK, OVEREXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER PERTINENT REQUIREMENTS AND INFORMATION.
 - 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 OR THROUGH THE GRADE BEAMS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS. LOWER FOOTINGS AND GRADE BEAMS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.
 - MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
 - 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.
 - DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.
 - MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

CONCRETE:

A. CONCRETE SHALL BE HARD ROCK CONCRETE (6 SACK CEMENT PER CU. YD. MIN.) AND MEET THE FOLLOWING MIN. ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS:

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

B. CONCRETE MIX DESIGN AND TESTING SHALL MEET WITH THESE SPECS. CEMENT SHALL BE IN ACCORDANCE WITH ASTM C 150 TYPE II. VERIFY MIN. CONCRETE STRENGTH AND CEMENT TYPE.

C. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.

D. CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI-318-14. AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY COMMITTEE 308.

E. ANCHOR BOLTS - A36 OR A307. USE 5/8" DIAMETER x 12" LONG ANCHOR BOLTS (A.B.) AT 48" O.C. U.O.N. ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.

F. ALL WWF SHALL CONFORM TO ASTM 1064.

SLAB:

A. DESIGN IS BASED UPON 4" THICK CONCRETE SLAB REINFORCED W/ WWF 6x6-W1.4x1.4 W.W.F. (ASTM A1064) CENTERED IN SLAB, OVER 10 MIL VISQUEEN MEMBRANE, OVER 4" AGGREGATE BASE, OVER ENGINEERED SUBGRADE.

B. PROVIDE CONTROL JOINTS AS FOLLOWS: 1/8" x 1/4" DEEP SAWCUTS @ 12'-0" O.C. SQ. MAX. w/ AN ASPECT RATIO OF NO MORE THAN 2:1.

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.

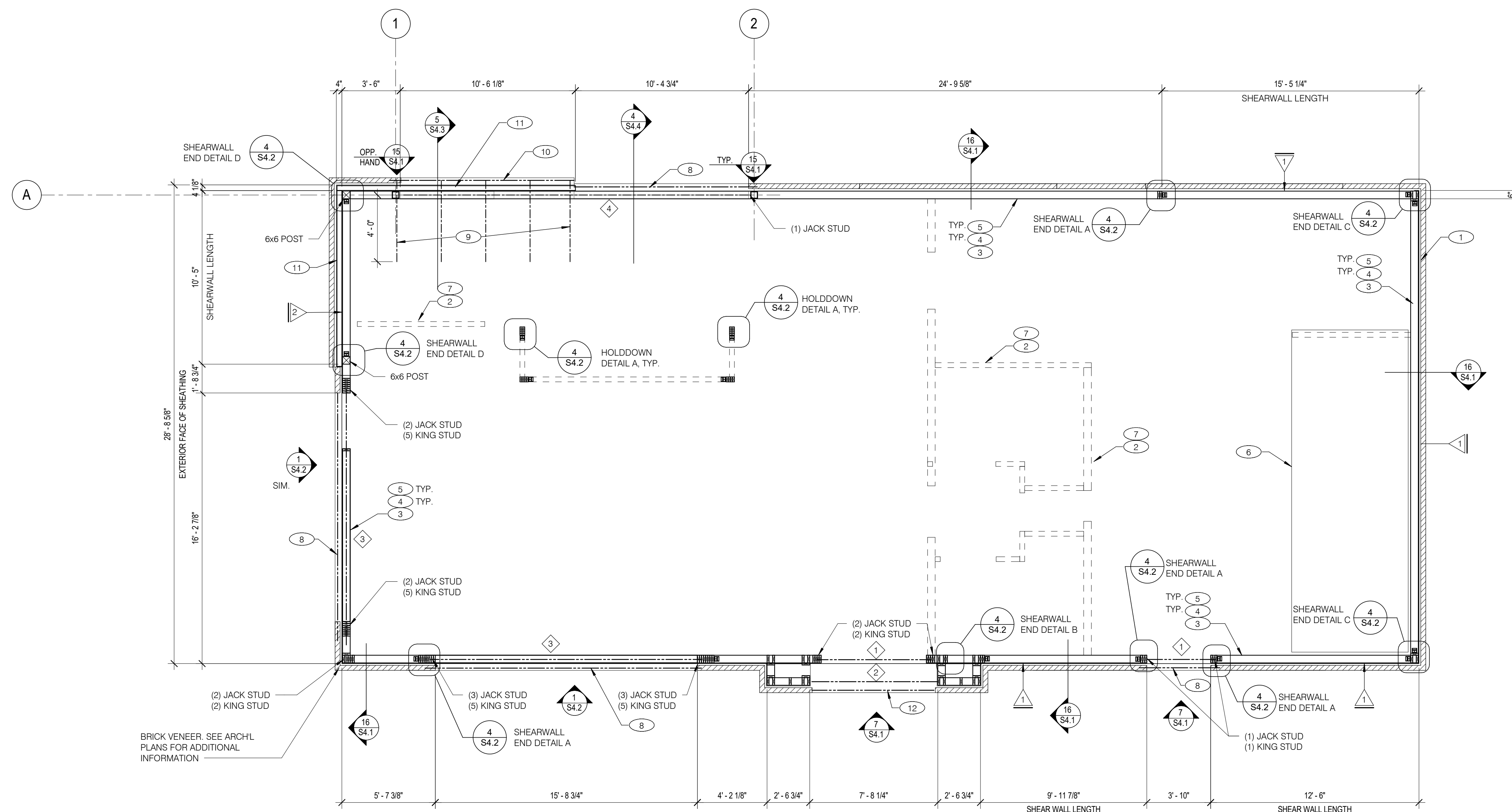
E. SEE ELECT. DWGS. FOR ELECT. LAYOUT DIMENSIONS, U.O.N.

F. COORD. FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO POURING SLAB.

MARK	WIDTHxLENGTHxTHICKNESS	REINFORCING
WF2.0	2'-0"xCONT.x2'-10"	(3)-#5 CONT. T&B
WF6.0	6'-0"xCONT.x2'-10"	LONG: (9)-#6 CONT. T&B TRANS: #6 @ 12" O.C. T&B
F4.0x25	3'-3"x4'-0"x2'-10"	LONG: (4)-#5 CONT. T&B TRANS: #5 @ 12" O.C. T&B
F4.0	4'-0"x4'-0"x2'-10"	(7)-#5 BARS EACH WAY T&B

NOTES:
1. "WF" DENOTES WALL FOOTING.
2. "F" DENOTES COLUMN FOOTING.
3. COLUMN FOOTING TO BE CENTERED WITH COLUMN.
4. TOP OF FOOTINGS TO BE 8" BELOW TOP OF SLAB U.O.N.
5. LONGITUDINAL WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ALL COLUMN FOOTINGS.

- FLOOR DRAINS LOCATED 12" BELOW T.O. SLAB. SLOPE SLAB AS INDICATED ON PLAN TO PROVIDE POSITIVE DRAINAGE.
- PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS). PROVIDE SLEEVE IN CONCRETE AT THESE AND HOSE BIB LOCATIONS. COORDINATE LOCATIONS WITH PLUMBING DRAWINGS.
- INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0. BOTTOM OF FOOTING (B.O.F.) ELEVATION = -3'-6" BELOW FINISHED EXTERIOR GRADE (MIN. FOR FROST PROTECTION). ALL TOP OF FOOTING (T.O.F) ELEVATIONS = -0'-8".
- NOT USED.
- ANCHOR RODS LOCATED THROUGHOUT PERIMETER OF BUILDING SHALL BE PROVIDED AS REQUIRED PER THE "PLATE/ANCHOR ROD" COLUMN OF THE "WALL SHEATHING AND SHEARWALL SCHEDULE." SEE D/S2.0.
- HD19 HOLDDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDDOWN EMBEDMENT DETAIL.
- DTTZ-SDS2.5 ANCHOR FOR SUPPORT OF HALF WALL.
- HD19 HOLDDOWN ANCHOR AT EACH END OF INTERIOR SHEARWALL. SEE 6/S4.0 FOR HOLDDOWN EMBEDMENT DETAIL.
- HSS5x5x1/16 STEEL COLUMN.
- 4" EXTERIOR CONCRETE SLAB REINFORCED W/ WWF 6x6-W1.4x1.4 OVER 4" AGGREGATE BASE OVER SUBGRADE. SEE SLAB NOTES THIS SHEET FOR ADDITIONAL INFORMATION.
- 4" CONCRETE SLAB PER SLAB NOTES THIS SHEET.
- CONCRETE CURB. SEE CIVIL PLAN



08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

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

MATERIAL PROPERTIES:
W SHAPES: ASTM A992 (F_y = 50 KSI)
M.S.C SHAPES: ASTM A36 UNO
PLATE, ANGLES: ASTM A36 UNO
PIPE: ASTM A53, TYPE E OR S, GRADE B
TUBE: ASTM A500 GRADE B (F_y = 46 KSI)
DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2010 AISC SPECIFICATIONS.
FIELD CONNECTIONS SHALL BE BOLTED, BEARING TYPE UNLESS NOTED OTHERWISE USING 3/4" HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. ONE SIDED CONNECTIONS ARE NOT PERMITTED UNLESS DETAILED ON DRAWINGS. ALL CONNECTIONS TO TUBES AND PIPES SHALL USE THRU PLATES UNLESS NOTED OTHERWISE.
ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH THE LATEST AWS SPECIFICATIONS.
STEEL EXPOSED TO THE EXTERIOR SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A123. PRIME ALL STEEL NOT IN CONTACT WITH CONCRETE. DO NOT PRIME STEEL IN AREAS TO RECEIVE SLIP CRITICAL BOLTS (FRICTION BOLTS), DO NOT PRIME STEEL THAT IS TO RECEIVE FIREPROOFING.
SUBMIT SHOP DRAWINGS PREPARED UNDER SUPERVISION OF A REGISTERED STRUCTURAL ENGINEER, INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS, PROCEDURES AND DIAGRAMS. INCLUDE DETAILS OF CUTS, CONNECTIONS, CAMBER, HOLES AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS SYMBOLS AND SHOW SIZE, LENGTH, AND TYPE OF EACH WELD. PROVIDE SETTING DRAWINGS, TEMPLATES AND DIRECTIONS FOR INSTALLATION OF ANCHOR BOLTS AND OTHER ANCHORAGES TO BE INSTALLED BY OTHERS.

MARK	BUILT-UP SECTION	MANUF. MEMBER	STEEL BEAM
1	(3) 2x10	--	--
2	--	5 1/4x9-1/2 2.0E PSL	--
3	--	5 1/4x18 2.0E PSL	--
4	--	--	W16x57

NOTES:
1. BUILT-UP HEADER SECTION SHALL HAVE 1/2" PLYWOOD SANDWICHED BETWEEN THE PLYS OFF WOOD. REF 8/S4.1.
2. PSL BEAMS TO HAVE FOLLOWING MIN. PROPERTIES:
F_b=2900 PSI
F_operp=750 PSI
F_y=290 KSI
E=29000 KSI
3. ALL HEADERS SHALL HAVE TWO JAMB STUDS AND TWO FULL HEIGHT KING STUDS AT BEARING. U.O.N.
4. SEE STRUCTURAL STEEL NOTES FOR ADDITIONAL INFORMATION

SW	SHEATHING	EDGE	FIELD	PLATE / ANCHOR ROD	REMARKS
1	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 6" O.C.	10d @ 12" O.C.	5/8" DIA. A307 (12' HEADED) @ 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, (12' HEADED) @ 16" O.C. W/ WASHER	PLYWOOD ON BOTH SIDES OF WALL
***	1/2" CDX PLYWD (32/16), PS1 RATING	10d @ 6" O.C.	10d @ 12" O.C.	5/8" DIA. A307, (12' HEADED) @ 48" O.C. W/ WASHER	NAILING @ HEADERS PER 8/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. 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 HOLDDOWNS FROM THESE DIMENSIONS. SEE ARCH DWGS FOR ACTUAL WALL LENGTHS. SHEARWALL LENGTHS WHERE NOTED ARE MINIMUM.
6. HD REFERS TO SIMPSON STRONGTIE CO. HOLDDOWNS. 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 HOLD-DOWNS.
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.
9. ALL ANCHOR RODS SHALL BE EMBEDDED A MINIMUM OF 8" BELOW TOP OF CONCRETE.

WALL FRAMING:
A. EXTERIOR WALL NON-BEARING & BEARING STUDS SHALL BE NO. 2 SPRUCE-PINE-FIR. 6x6 POSTS TO BE NO. 2 SOUTHERN PINE. INTERIOR WALL STUDS MAY BE STUD GRADE. SEE ARCH. DWGS FOR METAL STUDS AT HOODS.
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 CONCRETE, 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. 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, SILLS 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.

KEY NOTES:
1. COORDINATE WITH ELECTRICAL POWER PLAN SHEET E3.0.
2. 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.
3. (2) 2x6 TOP PLATES - SPLICE PER 12/S4.1. U.O.N. REF. 1/S4.3 FOR CAP DETAIL.
4. TOP OF TRUSS BEARING PLATE. SEE DETAIL 1 & 2/S4.1.
5. TOP OF PARAPET. SEE DETAIL 1/S4.3.
6. FREEZER/COOLER BY MANUFACTURER.
7. COORDINATE WITH PLUMBING ROUGH IN SHEET P4.0.
8. L6x4x3/8 (LLV) GALV. STEEL ANGLE BRICK LEDGER. ANCHOR TO FRAMING PER 7/S4.3.
9. HSS4x4x3/8" x 4'-8" LG. OUTRIGGER @ 2'-8" O.C.
10. ANGLE AND TUBE STEEL OUTRIGGER FRAMING SUPPORTING BRICK VENEER. SEE DETAIL 5/S4.3 FOR ADDITIONAL INFORMATION.
11. 2x4 STUD @ 16" O.C. FURRING AT TOWER. SEE DETAIL 4 & 5 ON SHEET S4.4 FOR ADDITIONAL INFORMATION. L6x4x3/8 (LLV) GALV. STEEL ANGLE BRICK LEDGER. ANCHOR TO FRAMING PER 7/S4.3.
12. L8x4x7/16 (LLV) GALV. STEEL ANGLE BRICK LEDGER. ANCHOR TO FRAMING PER 2/S4.5.

STRUCTURAL STEEL NOTES **F**

HEADER/BEAM SCHEDULE **E**

WALL SHEATHING AND SHEARWALL SCHEDULE **D**

FRAMING PLAN NOTES **C**

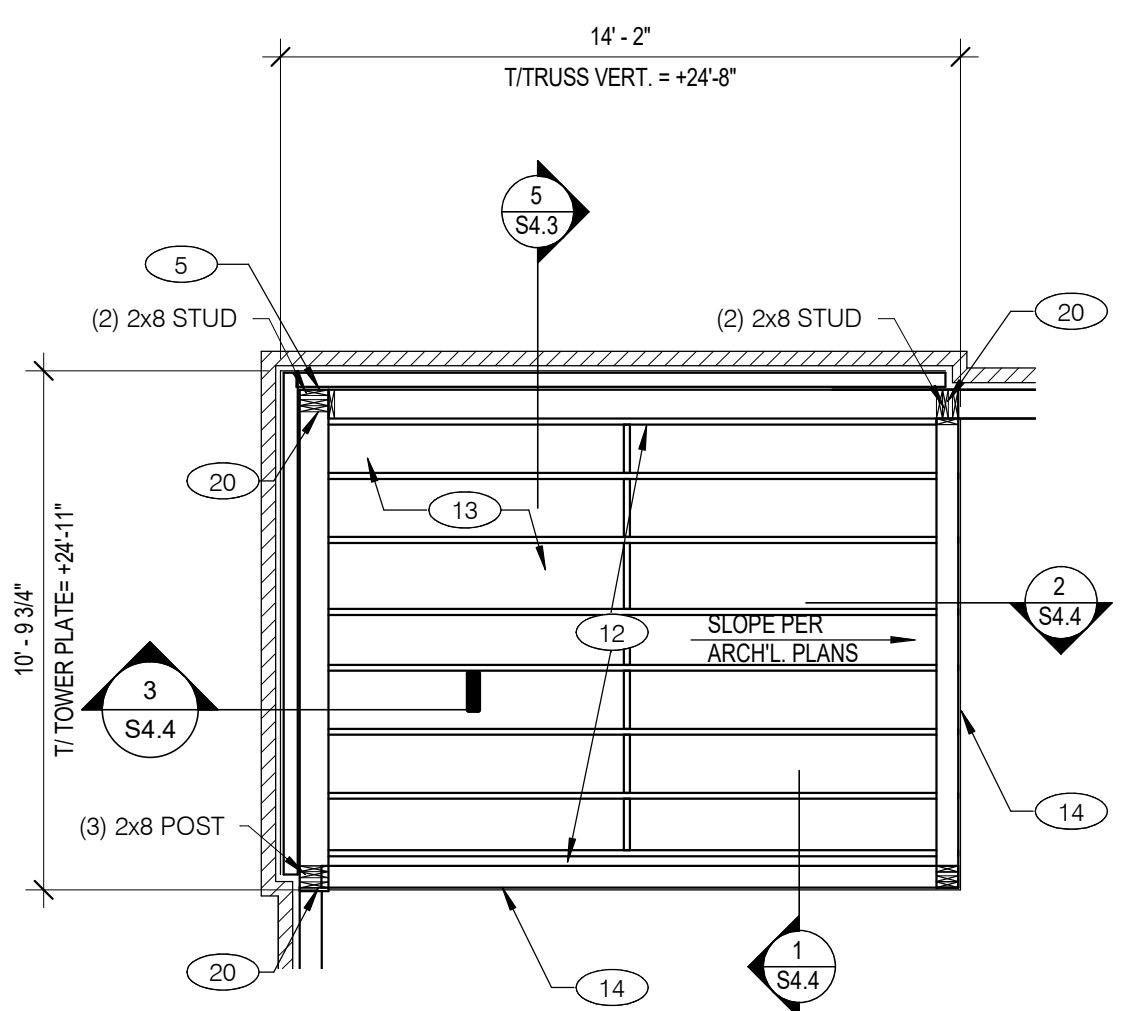
TACO BELL
NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
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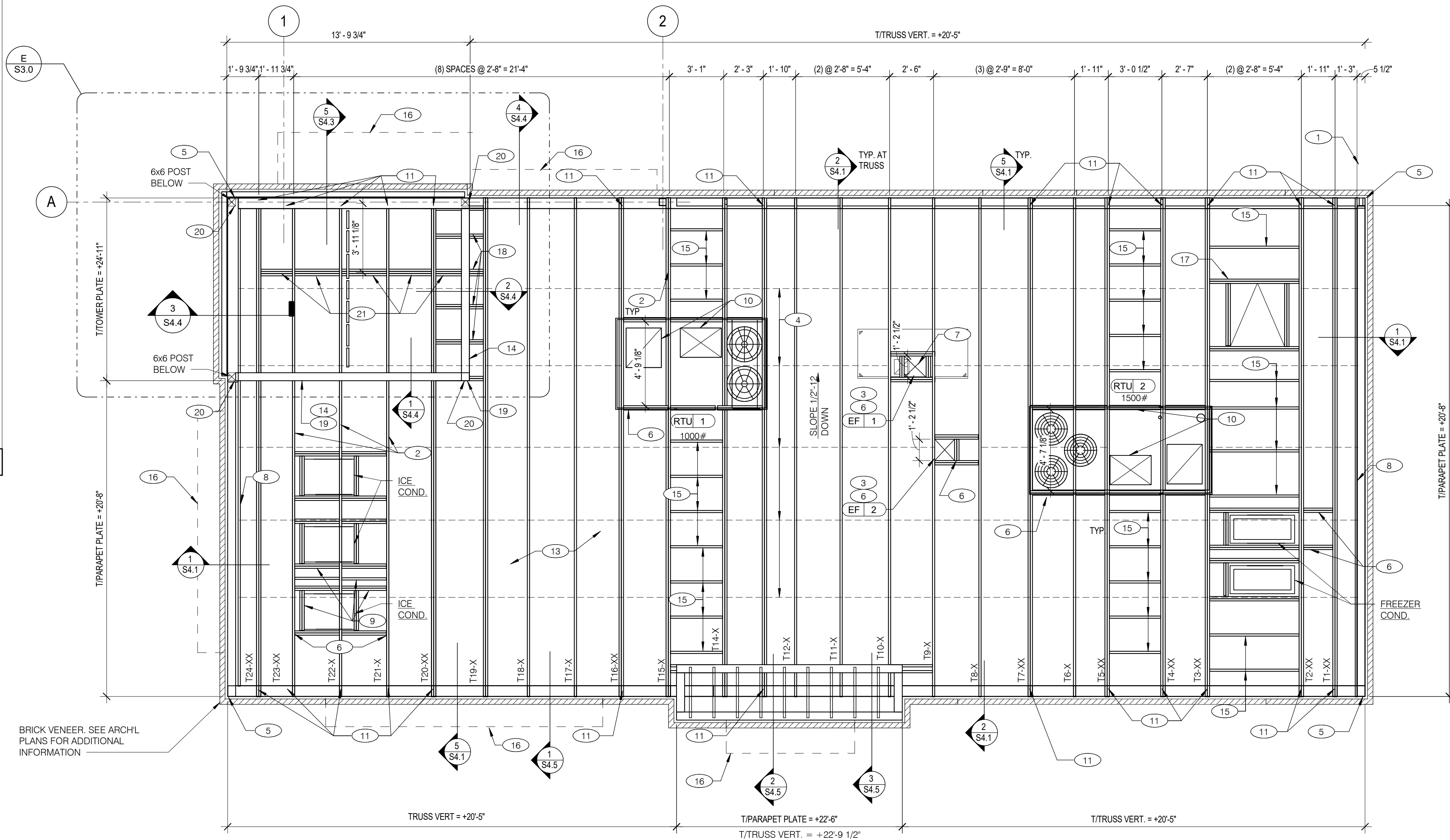
WALL FRAMING PLAN

S2.0

PLOT DATE: 8/7/2018 9:17:13 AM



TOWER ROOF FRAMING PLAN 1/4" = 1'-0" **E**



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

TYPE	NAILING / SHEATHING	REMARKS
BN	10d @ 6" O.C.	
EN	10d @ 6" O.C.	
FN	10d @ 12" O.C.	
ROOF SHEATHING	5/8" CDX PLYWOOD (40/20), PS1 RATING	

NOTE:
SEE 8/S4.2 FOR DEFINITIONS.

NAILING SCHEDULE - ROOF **D**

ROOF FRAMING NOTES:

A. ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING SHALL BE SUPPORTED WITH SIMPSON PSC1 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-4P 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 MICHIGAN). 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 2x8 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 3/S4.2.

G. MFR'D ROOF TRUSS DESIGN LOADS: SEE TRUSS DESIGN CRITERIA 3/S4.2. **PROVIDE ADD'L POINT LOAD FROM KEYNOTE 19 THIS SHEET.**

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. REFERENCE MANUFACTURED TRUSS DRAWINGS FOR DETAILS ON TRUSS MANUFACTURING AND NAILING.

ROOF FRAMING NOTES **C**

- | | | | |
|------|--|------|--|
| (1) | STARTING POINT OF TRUSS LAYOUT - CENTERLINE OF TRUSS. | (12) | 2x8 ROOF JOIST @ 16" O.C. WITH MID-SPAN BLOCKING. |
| (2) | VERIFY NECESSITY OF DOUBLE TRUSSES WITH TRUSS MFR. DUE TO POINT LOADING AND ADDITIONAL UNIFORM LOADING, TYPICAL. | (13) | PLYWOOD ROOF DECK. SEE NAILING SCHEDULE, THIS SHEET. |
| (3) | COORDINATE BLOCKING WITH EXHAUST AND SUPPLY DUCT. | (14) | 2x6 @ 16" O.C. STUD TOWER WALL. |
| (4) | CONT 2x4 WD BRIDGING ON TOP OF BOTTOM CHORD. ADJUST AS REQUIRED FOR DUCT PLENUMS, MAX SPACING AT 5'-0" O.C. OR TIGHTER SPACING AS REQUIRED BY TRUSS DESIGN. SEE 13/S4.1 FOR BRIDGING LAP DETAIL. | (15) | 2x6 @ 24" O.C. WITH SIMPSON U-26 EA. END. |
| (5) | SIMPSON MSTA 24 AT CORNER DBL TOP PLATE. CENTER STRAP ON CORNER. | (16) | CANOPY BY MANUFACTURER. |
| (6) | (2) 2x6 BLOCKING W/ U26-2 HANGERS. TYP. EDGES OF ALL ROOF TOP EQUIPMENT AND ALL ROOF OPENINGS - SEE DET. 8 & 10/S4.2. | (17) | ROOF HATCH. |
| (7) | LOCATION OF HOOD. SEE HOOD DRAWINGS FOR HOOD ATTACHMENT DETAIL 6/S4.1. | (18) | (2) 2x6 @ 24" O.C. BLOCKING PERPENDICULAR TO TOWER WALL WITH SIMPSON U-26 EA. END. |
| (8) | (2) 2x6 LEDGER REF. 1/S4.1. | (19) | PROVIDE (3) 2x6 BLOCKING AT CORNER AND ALONG TOWER WALL W/ HUS26-2 HANGERS, EA. END. DESIGN TRUSSES T-19X AND T-20XX FOR ADD'L 1.8 KIP UPLIFT AND 1.8 KIP DOWN FORCE. |
| (9) | 2x6 @ 48" OC. W/ U26 EACH END. | (20) | PROVIDE (2) 2x6 WALL STUDS AT EA. CORNER WITHOUT A 6x6 POST. PROVIDE DTTZZ TENSION TIES FROM BLOCKING TO STUDS WITH 1/2" DIA. ANCHOR. INSTALL PER MANUF. RECOMMENDATIONS. WHERE STEEL BEAM OCCURS ANCHOR DTTZZ TENSION TIE TO TOP FLANGE OF STEEL BEAM W/ 1/2" DIA. THRU BOLT. |
| (10) | HVAC ROOF OPENING FOR DUCT. VERIFY SIZE WITH HVAC MFR. & MECHANICAL DWGS. | (21) | PROVIDE (3) 2x6 BLOCKING BETWEEN TRUSSES AT OUTRIGGER SUPPORT. SEE DETAIL 5/S5.3. DESIGN TRUSSES T-23x TO T-19x WITH A UPLIFT DEAD LOAD FORCE OF 500 LBS. AT A LOCATION OF 4'-0" FROM BEARINGS. |
| (11) | (2) 2x6 BUILT-UP COLUMN AT TRUSS BEARING, TYP. @ GIRDER. TRUSS ONLY. REF. DETAIL 12/S4.2. | | |

KEY NOTES **B**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

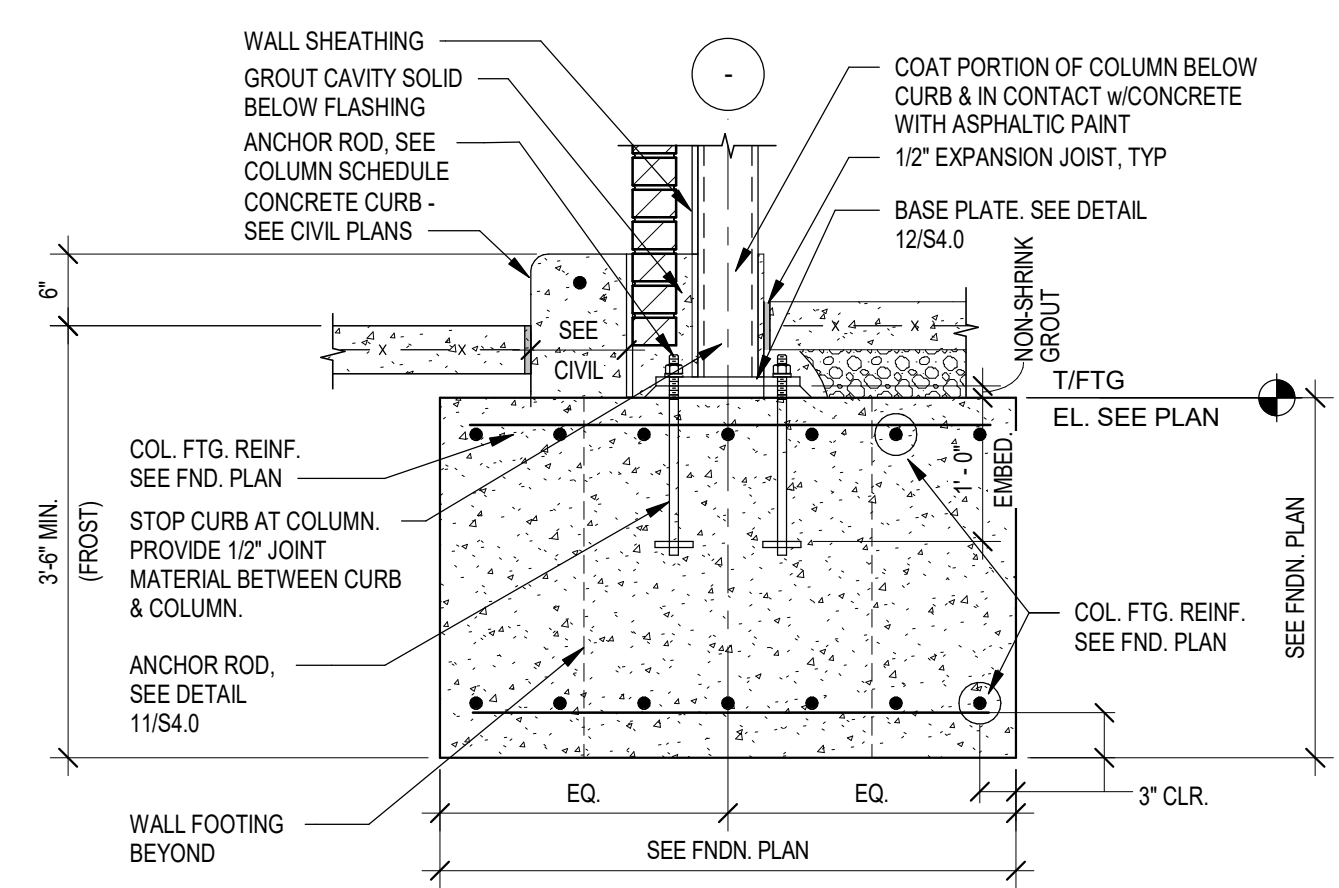
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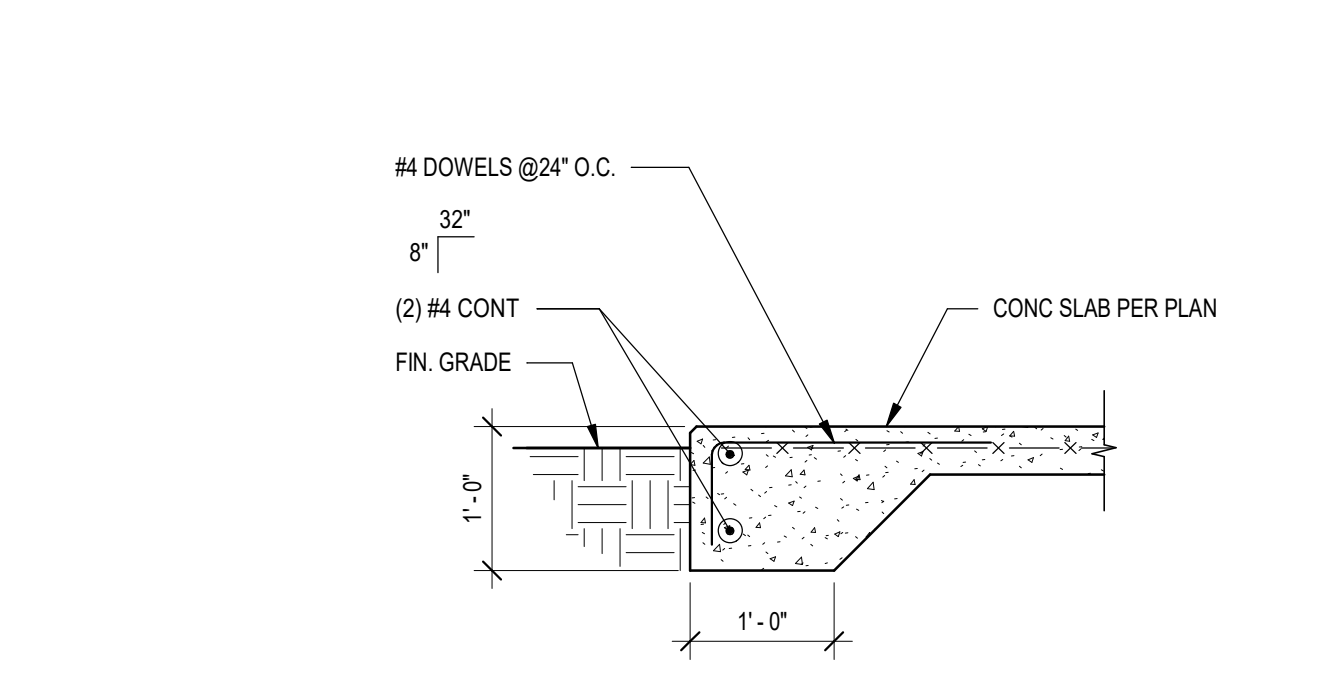
ROOF FRAMING PLAN

S3.0

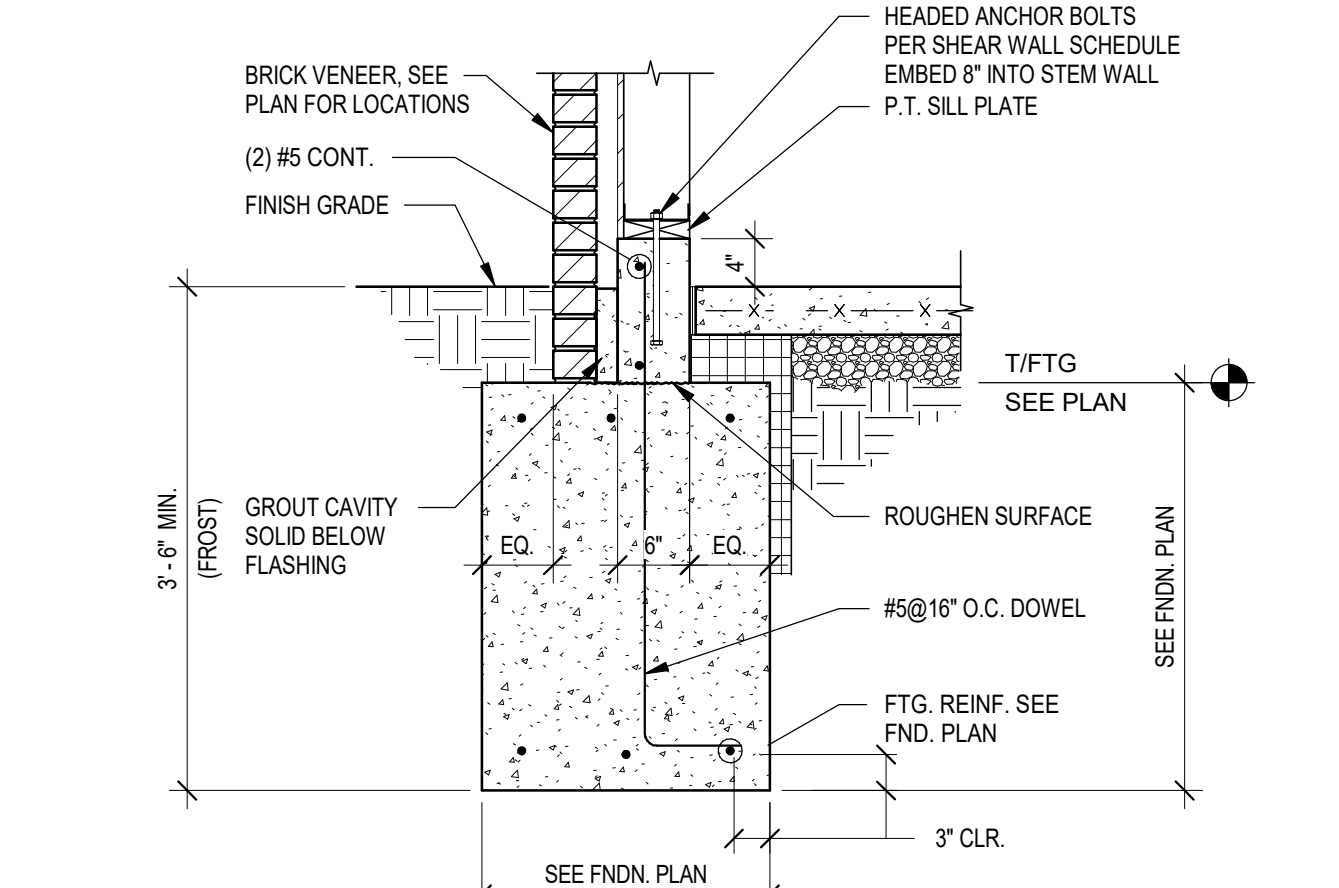
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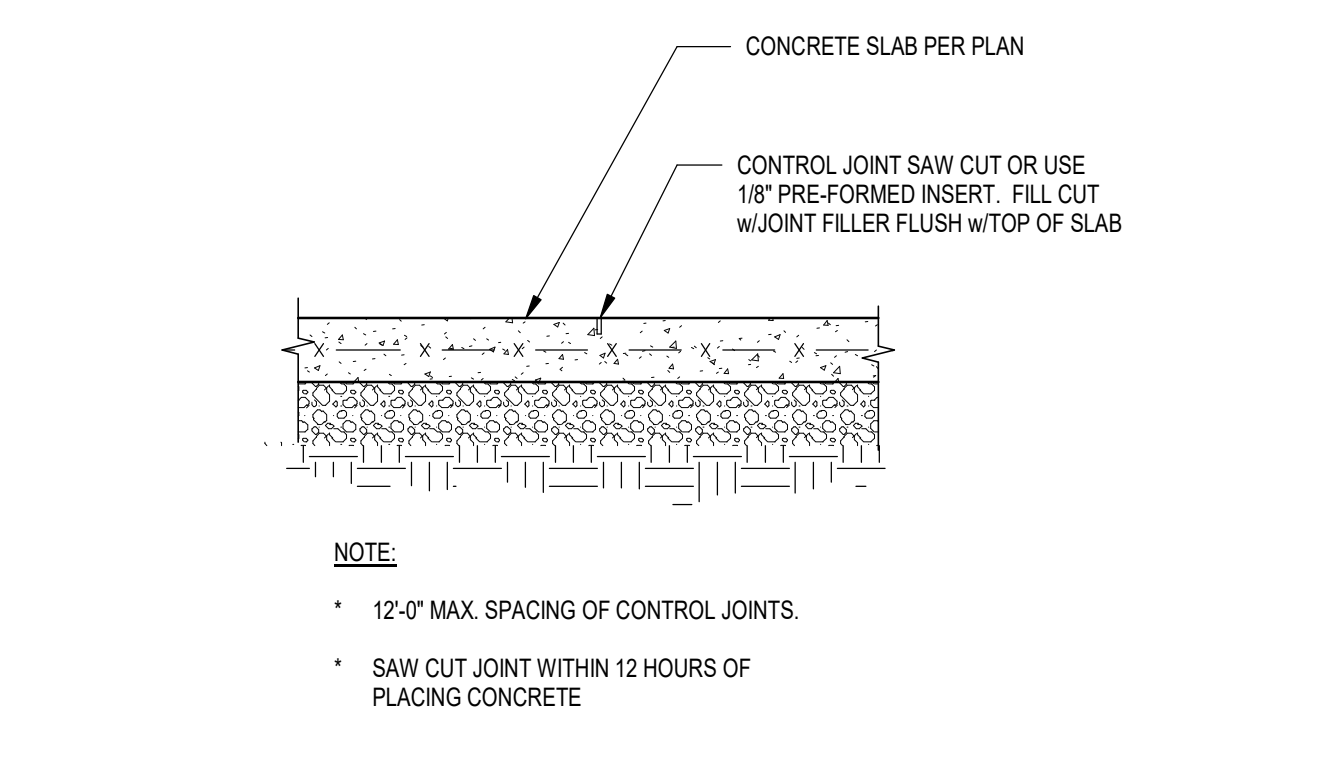
COLUMN FOOTING DETAIL 3/4" = 1'-0" **9**



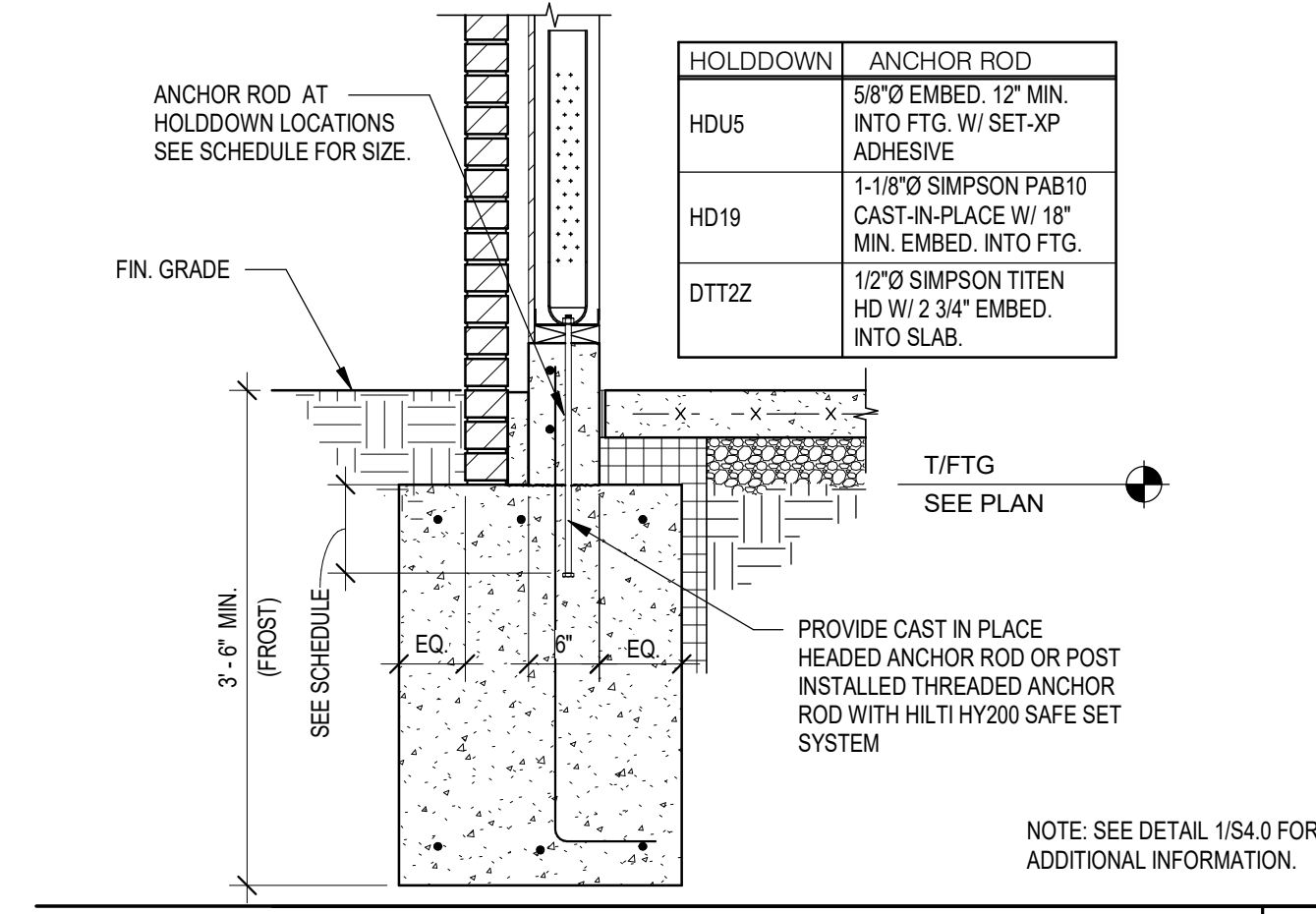
PATIO SLAB EDGE DETAIL 3/4" = 1'-0" **5**



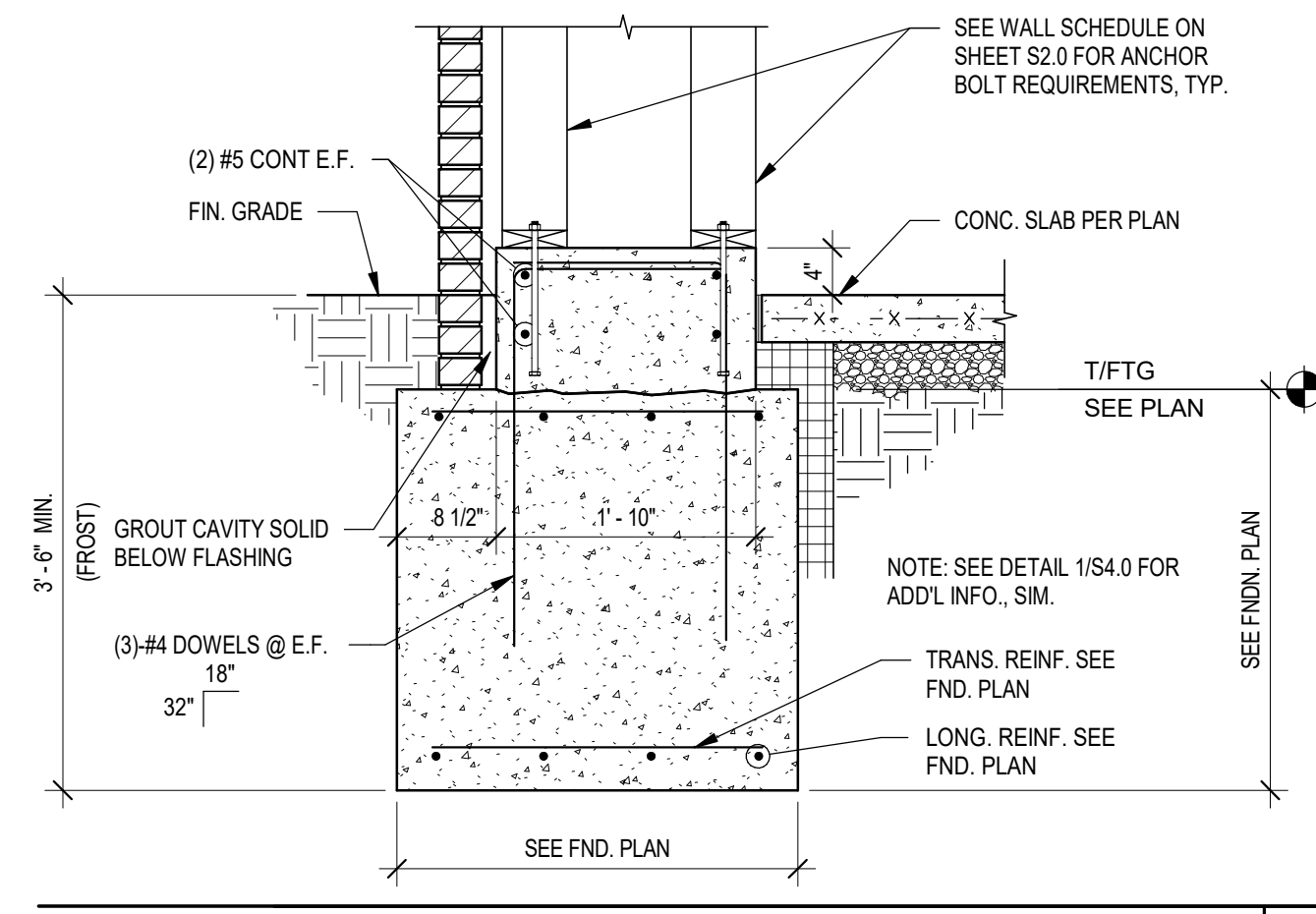
FOOTING AT SIDE AND REAR WALLS 3/4" = 1'-0" **1**



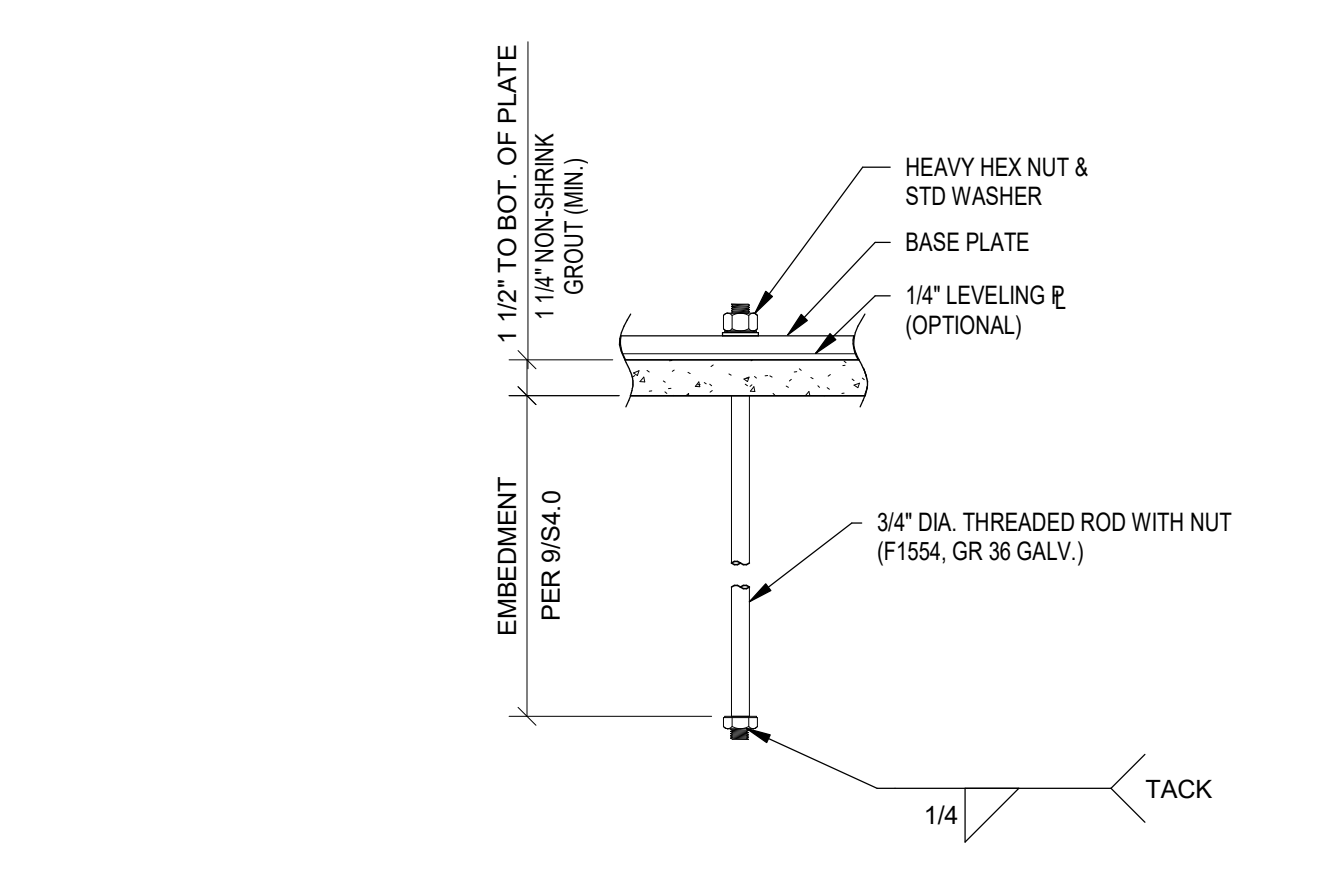
TYP. SLAB JOINT 1" = 1'-0" **10**



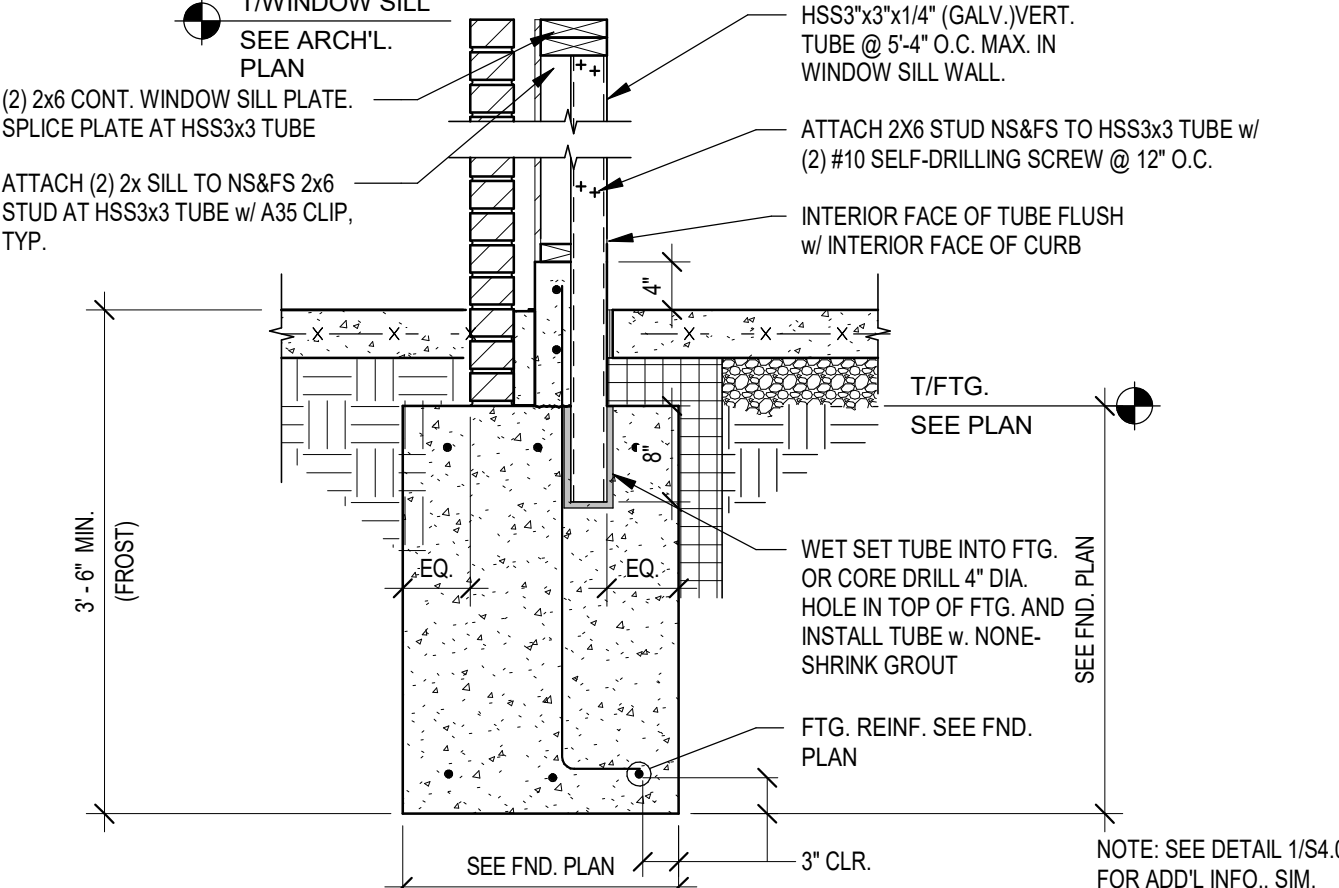
HOLDDOWN DETAIL 3/4" = 1'-0" **6**



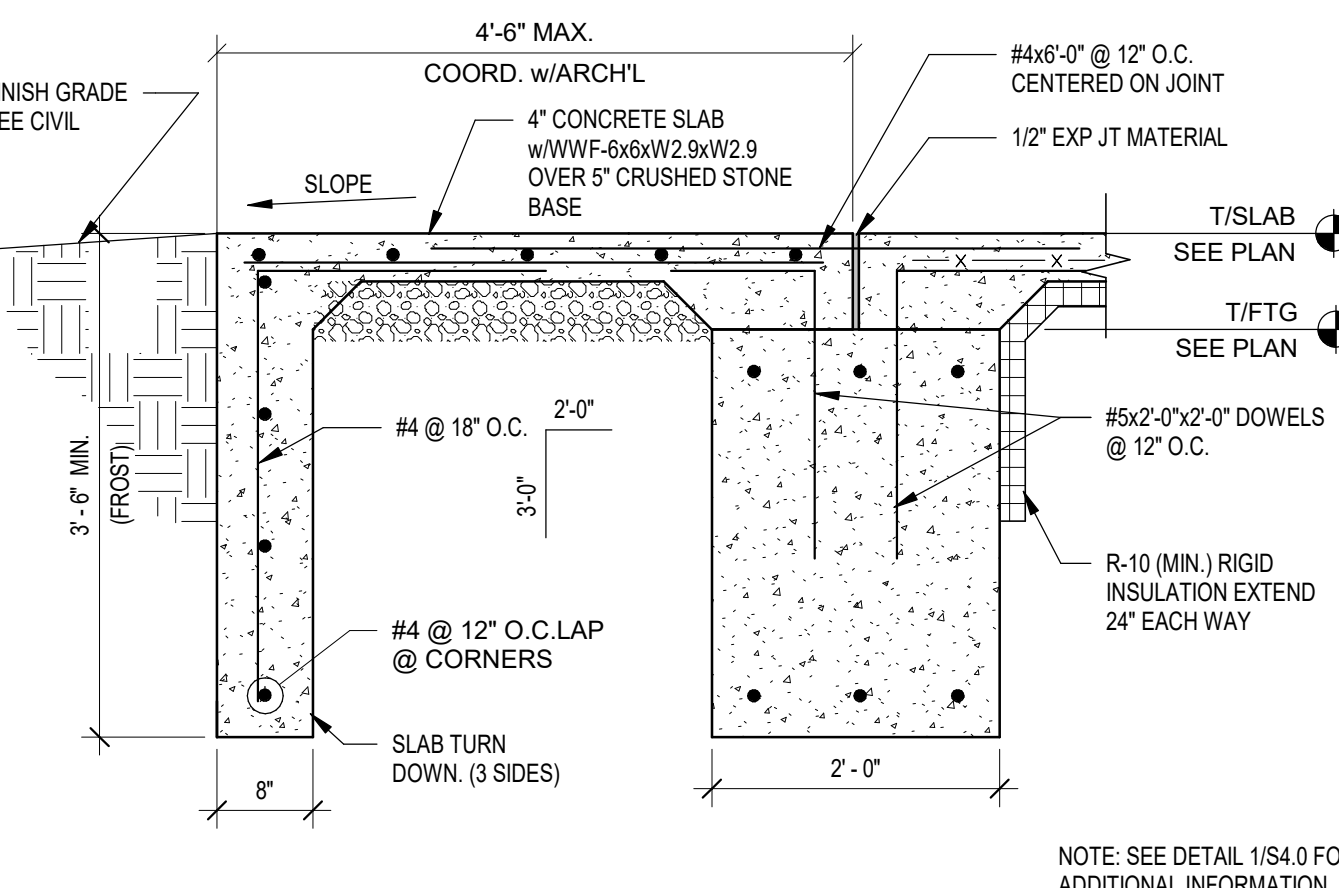
FOOTING AT ENTRY PILASTER 3/4" = 1'-0" **2**



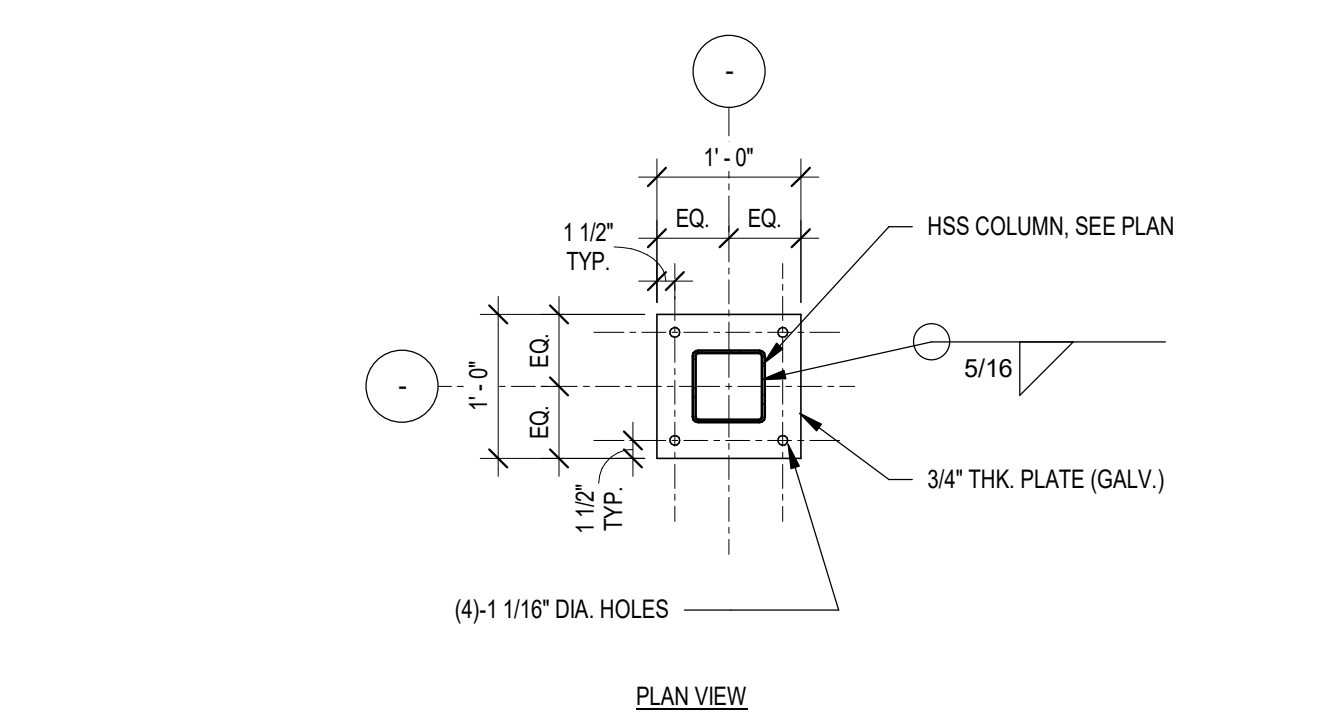
TYPICAL ANCHOR ROD DETAIL 3/4" = 1'-0" **11**



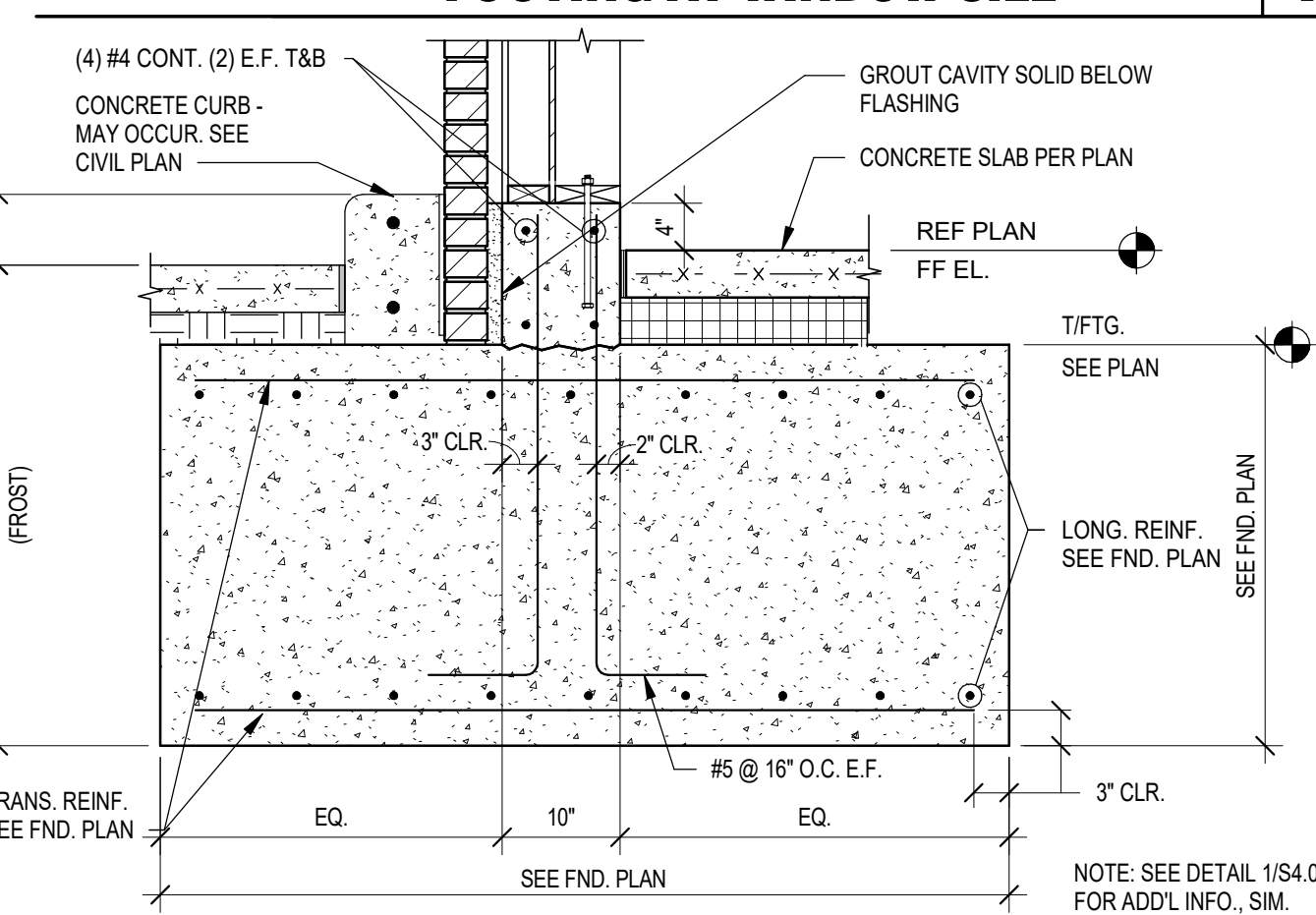
FOOTING AT WINDOW SILL 3/4" = 1'-0" **7**



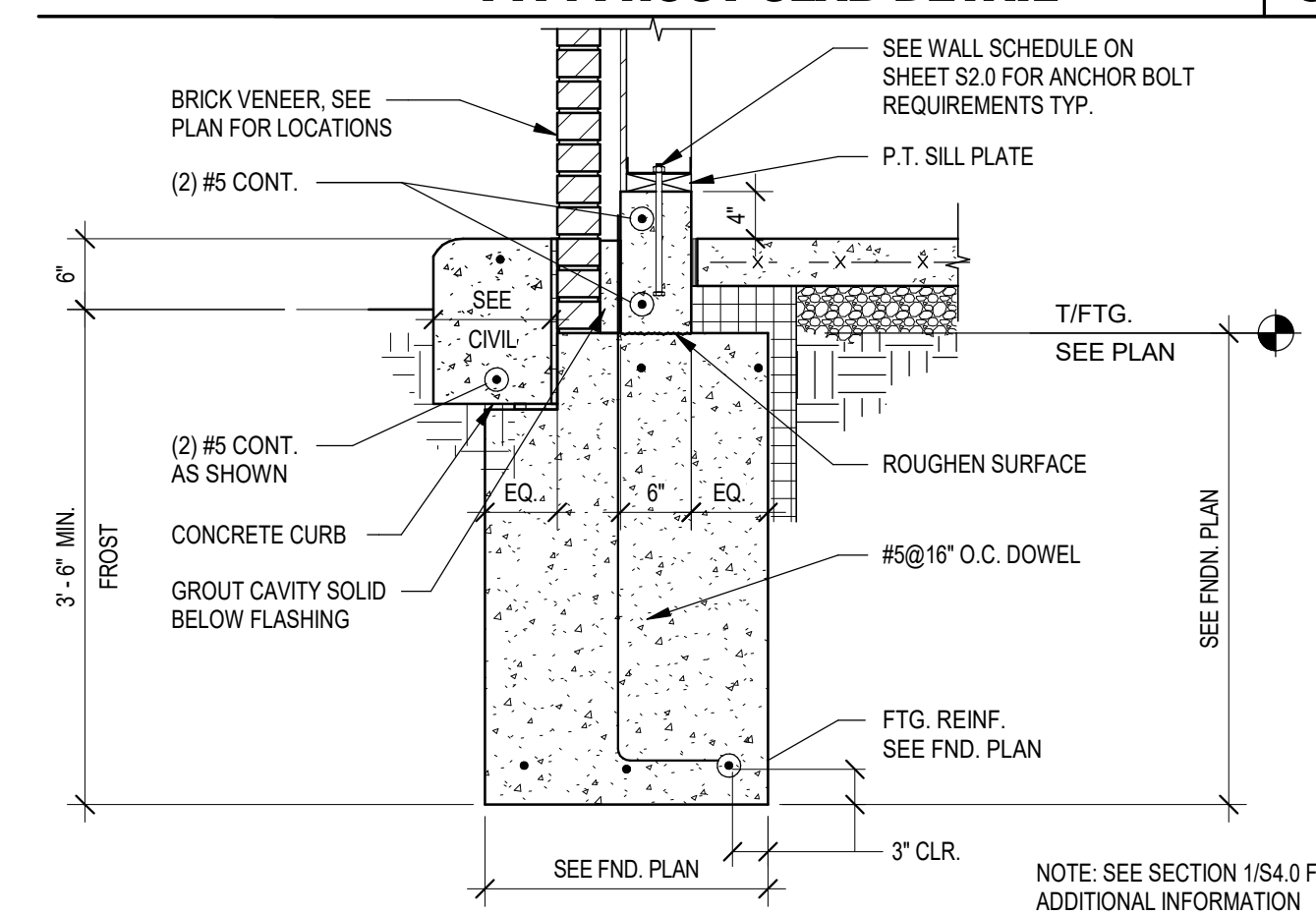
TYP. FROST SLAB DETAIL 3/4" = 1'-0" **3**



BASE PLATE DETAIL 3/4" = 1'-0" **12**



FOOTING AT FRONT SHEAR WALL 3/4" = 1'-0" **8**



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

NOT USED N.T.S. **13**

NOT USED N.T.S. **14**

NOT USED N.T.S. **15**

NOT USED N.T.S. **16**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

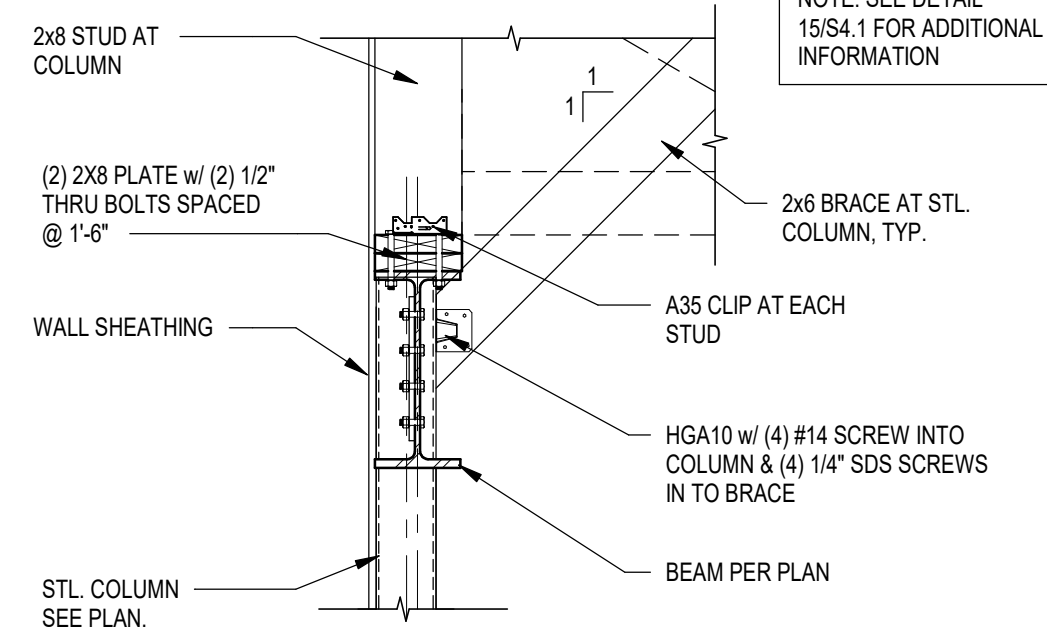
TACO BELL
NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

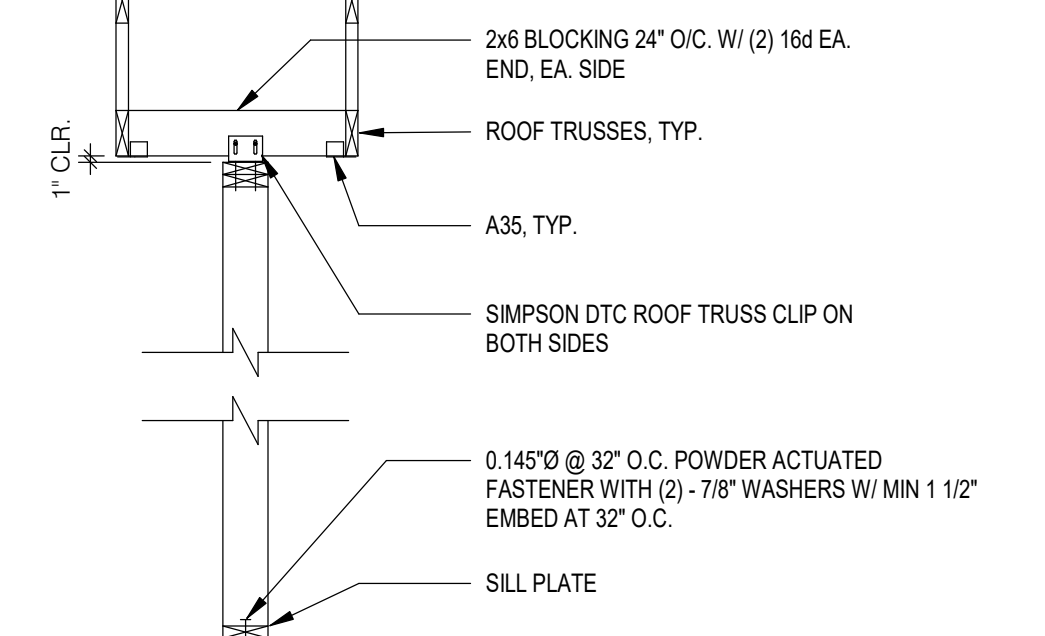
STRUCTURAL DETAILS FOUNDATION

S4.0

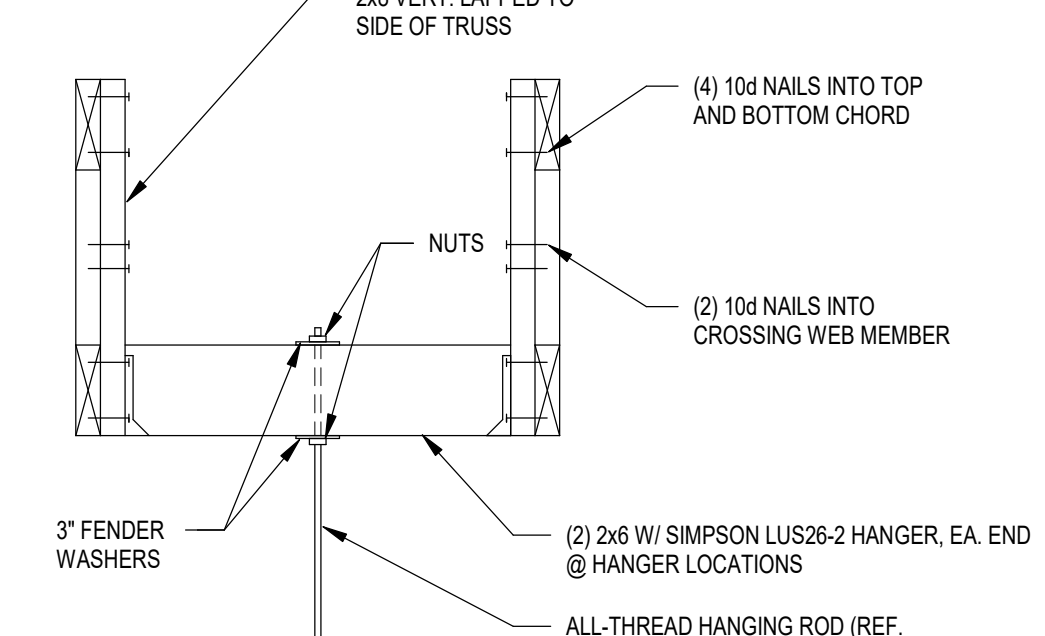
PLOT DATE: 8/7/2018 9:17:17 AM



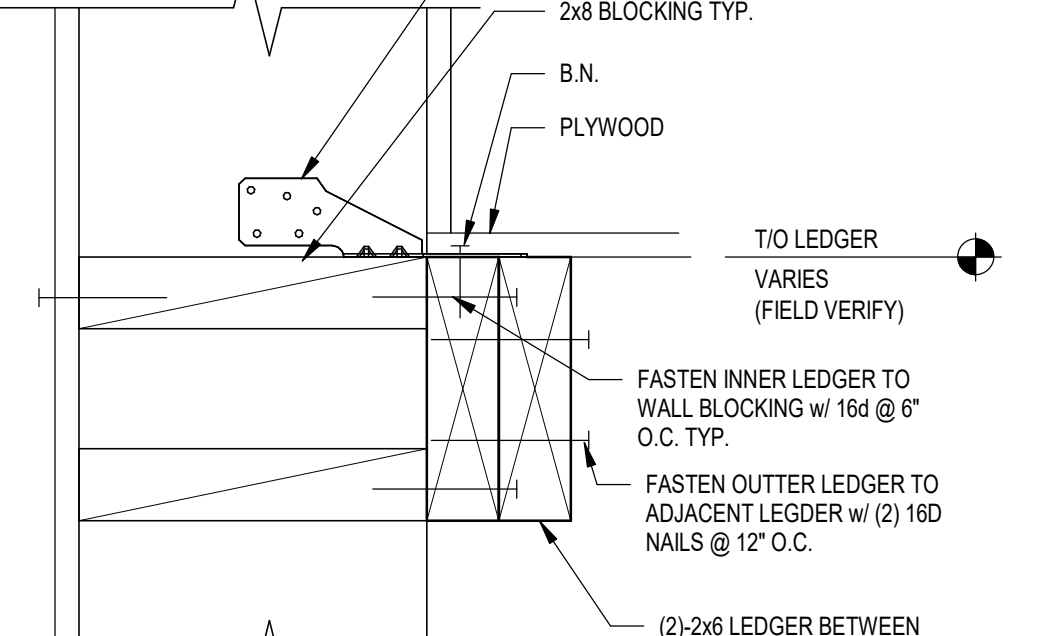
TYP. BEAM TO COLUMN DETAIL 3/4" = 1'-0" **14**



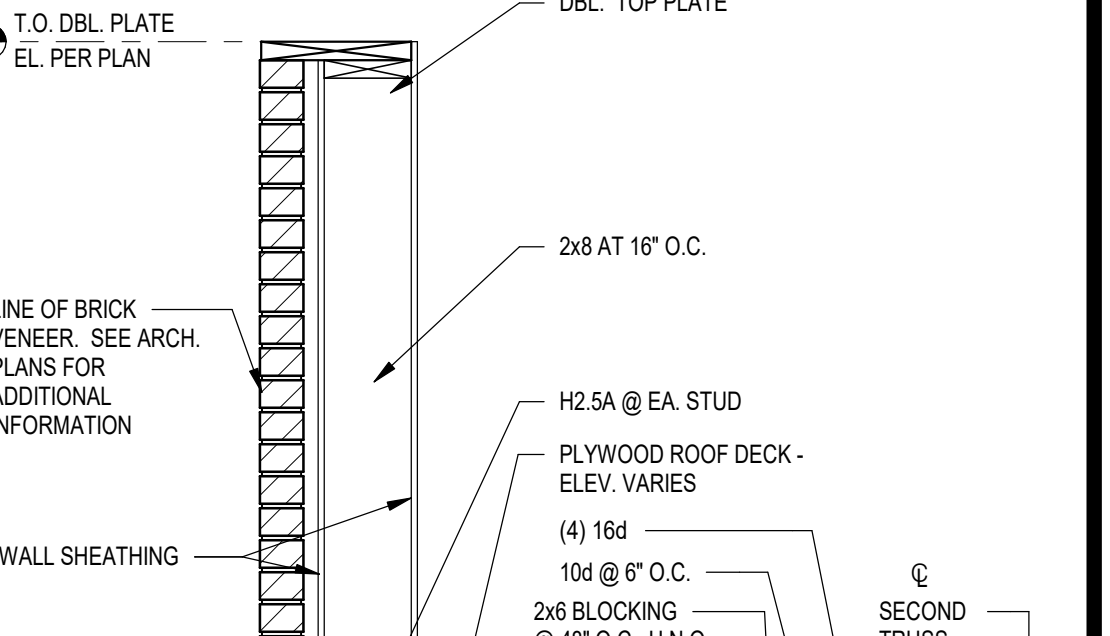
SUPPORT - PARALLEL TO TRUSS 1/2" = 1'-0" **10**



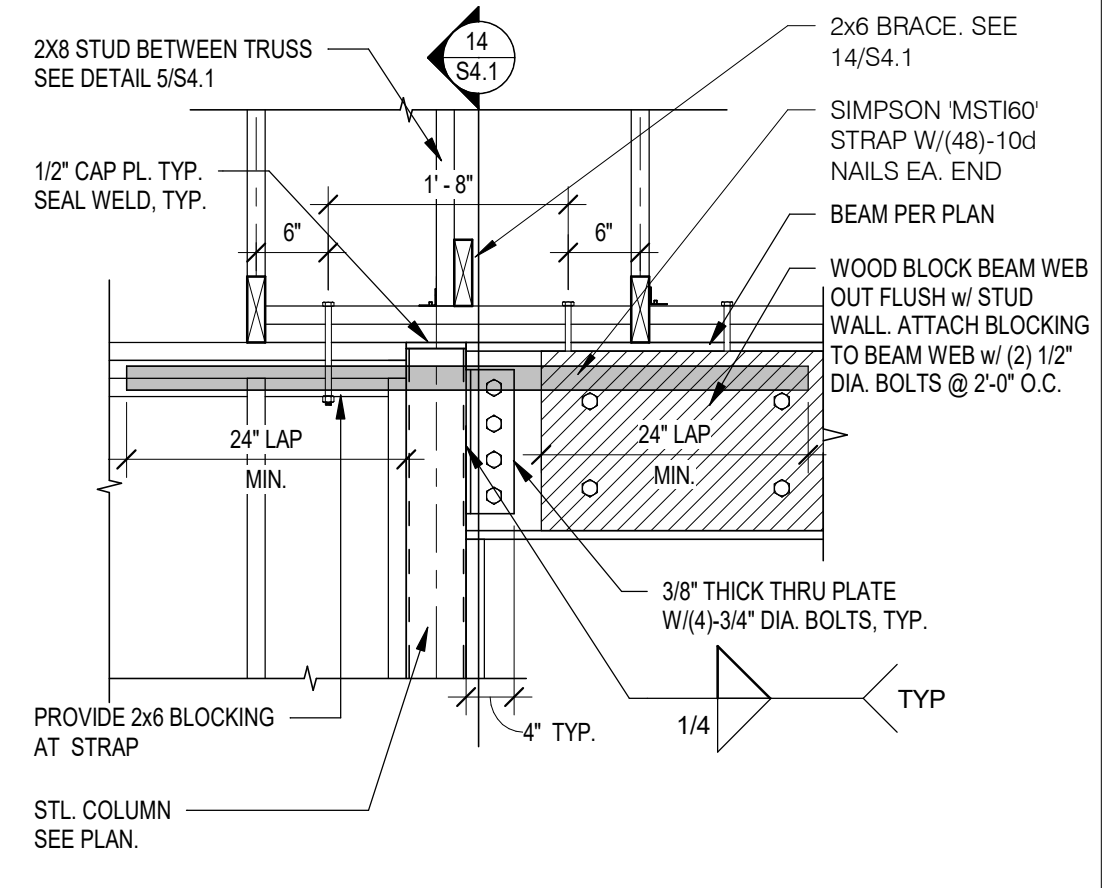
HANGING BULKHD. OR HOOD DETL. N.T.S. **6**



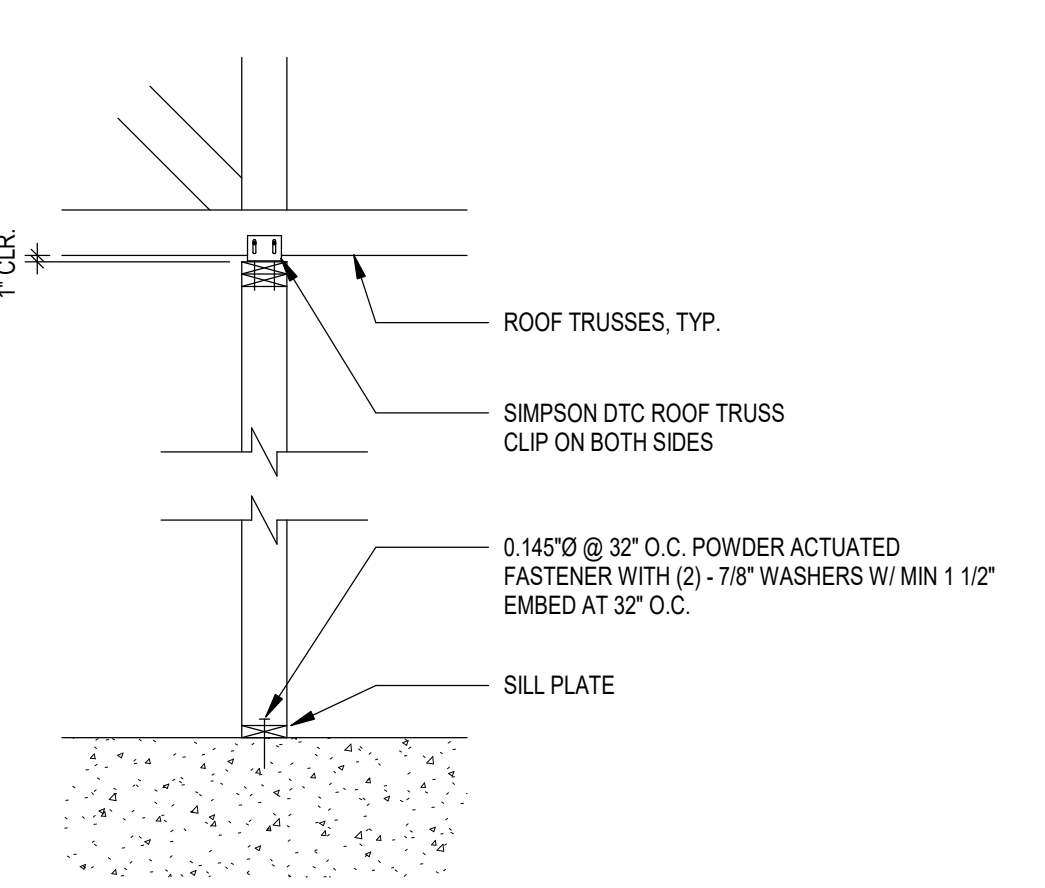
LEDGER DETAIL 3" = 1'-0" **3**



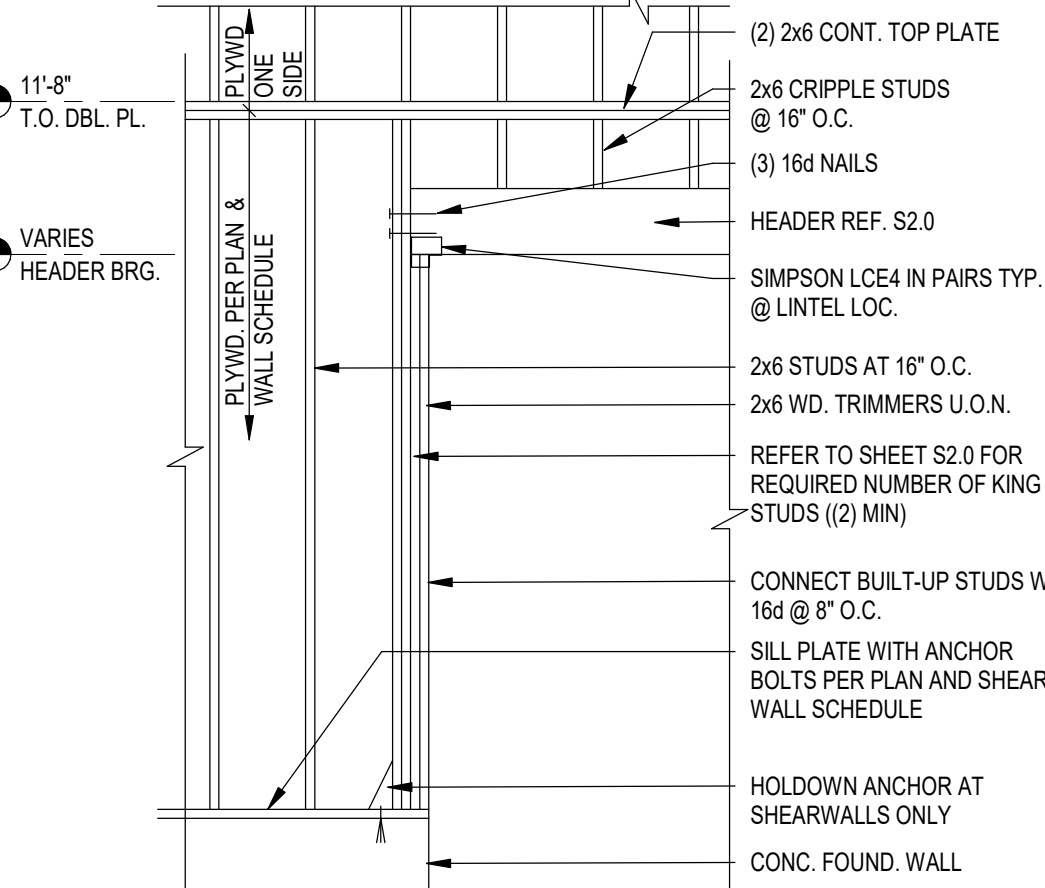
FRONT WALL SECTION N.T.S. **1**



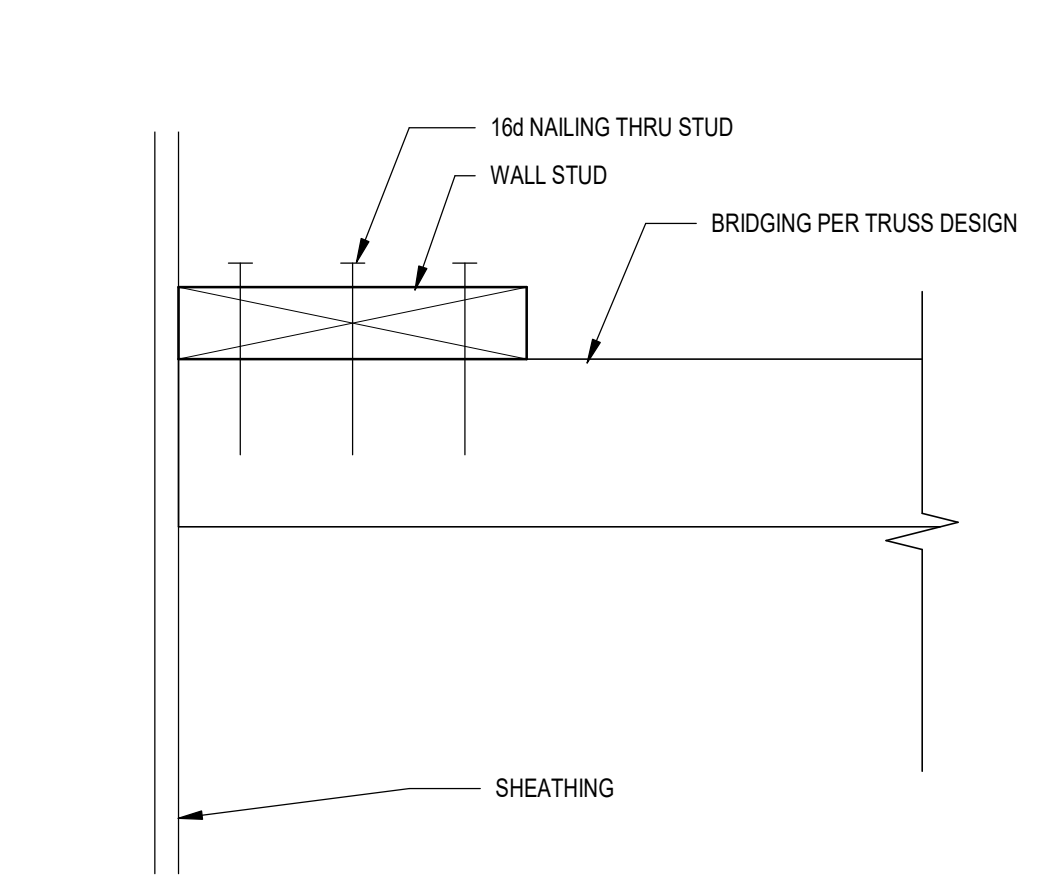
TYP. BEAM TO COLUMN DETAIL 3/4" = 1'-0" **15**



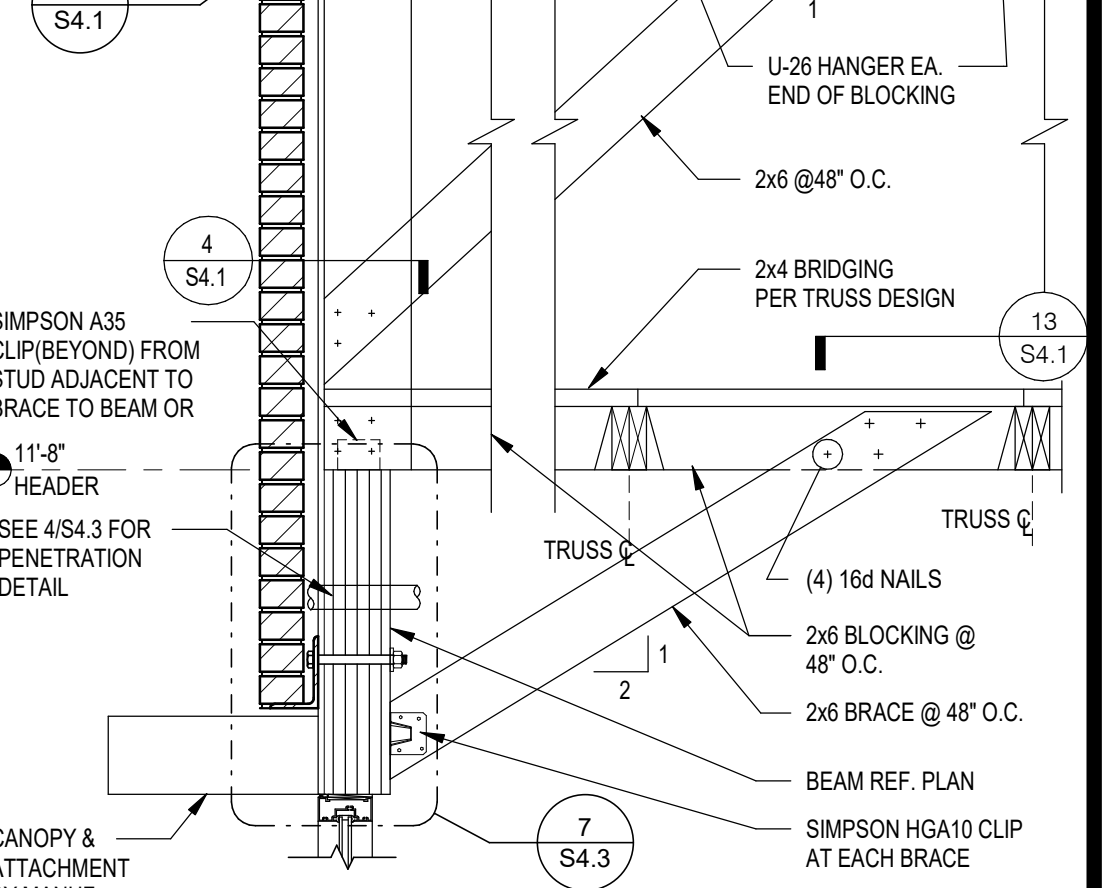
SUPPORT PERP. TO TRUSS 1/2" = 1'-0" **11**



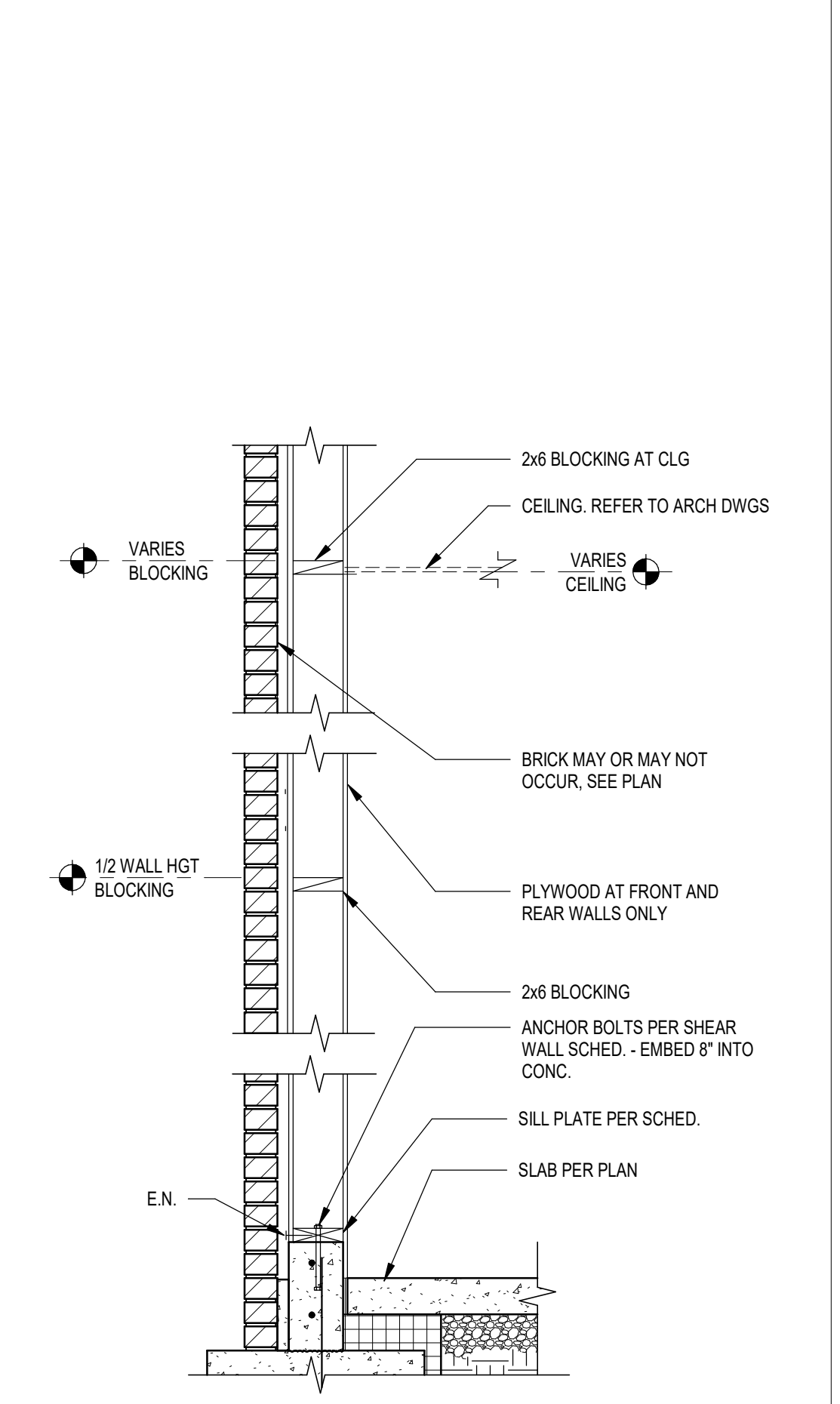
FRAMING ELEVATION @ OPENING 3/8" = 1'-0" **7**



BRIDGING DETAIL 3" = 1'-0" **4**



FRONT WALL SECTION N.T.S. **1**



TYPICAL WALL BELOW TRUSS 3/4" = 1'-0" **16**

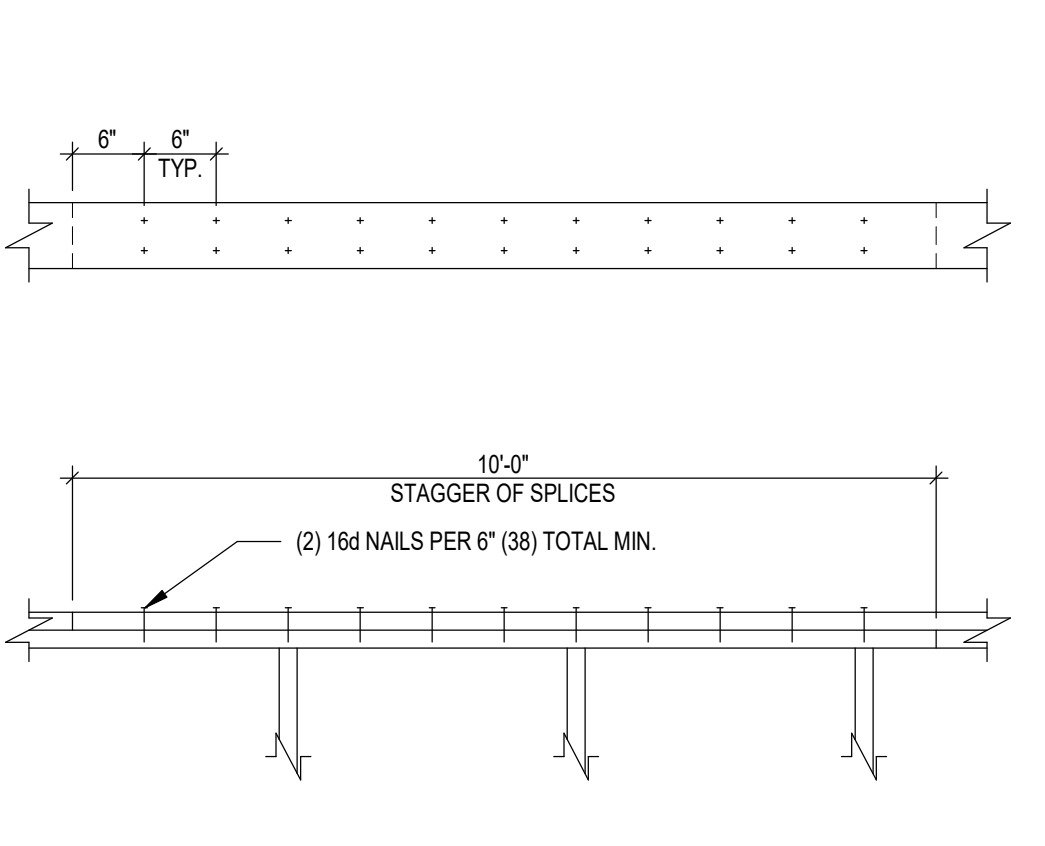
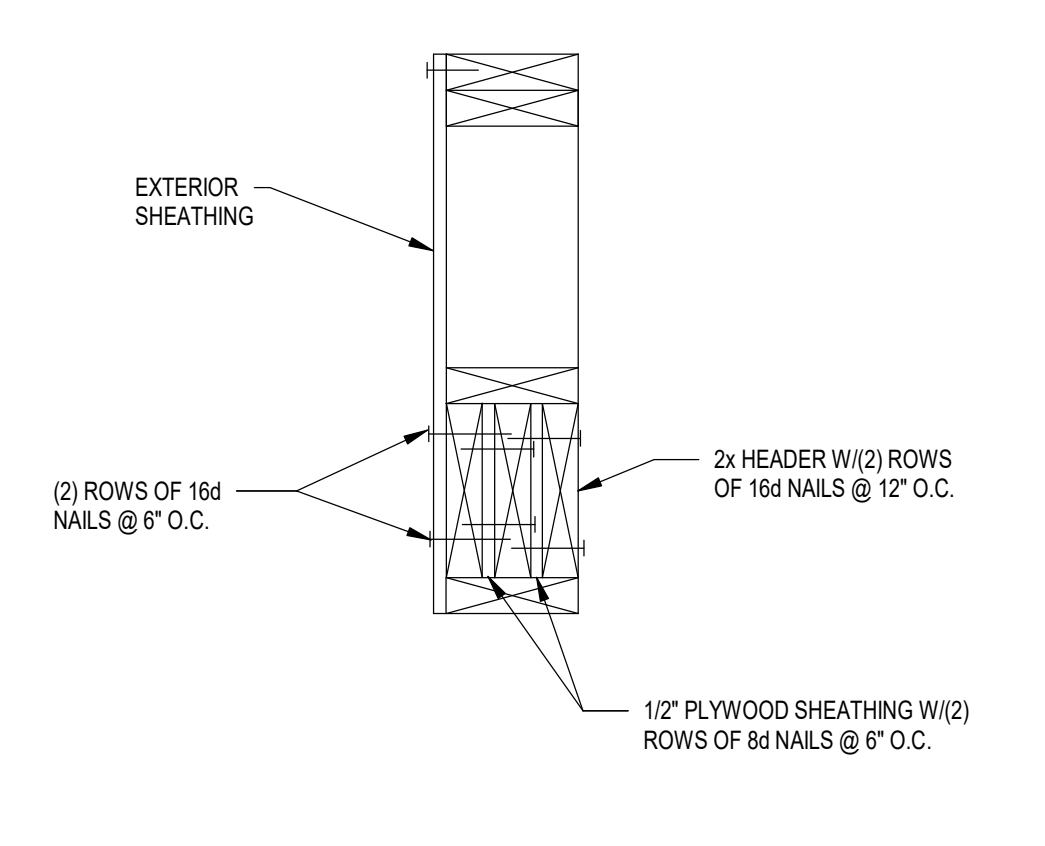
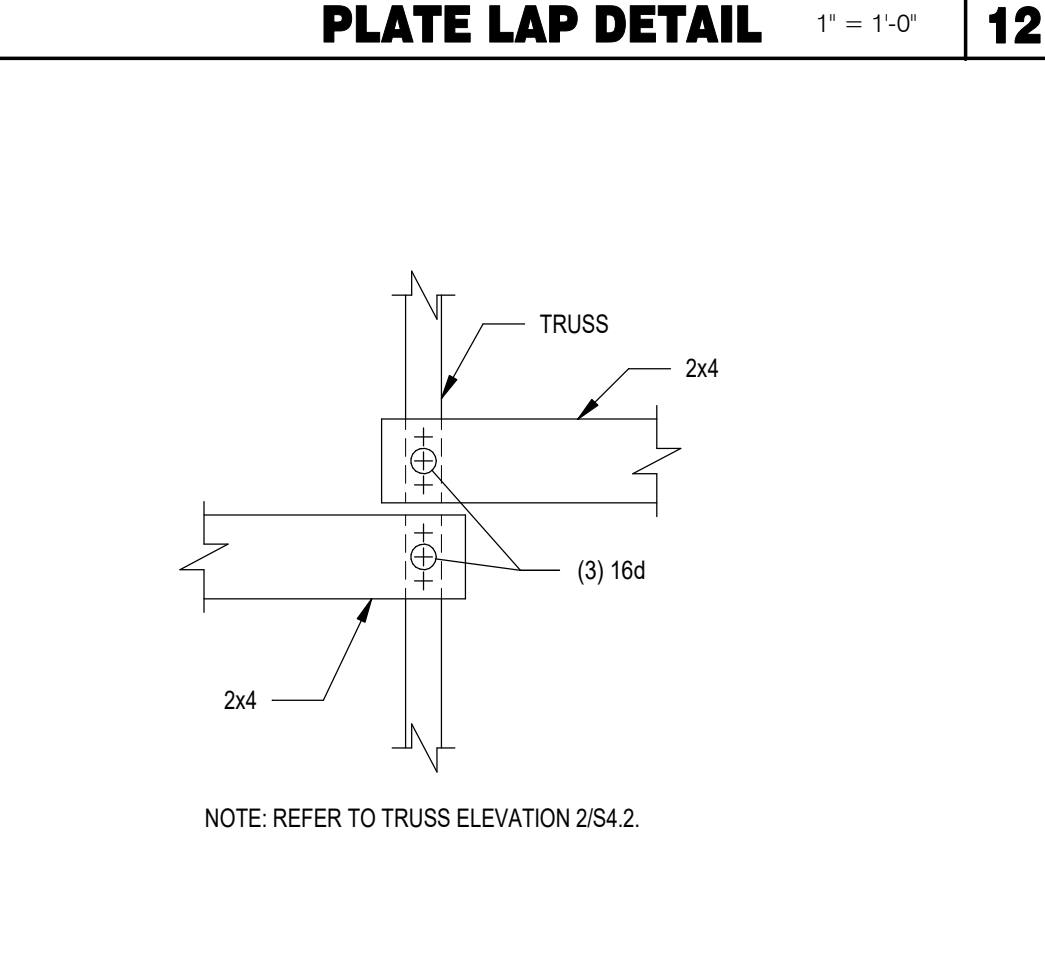


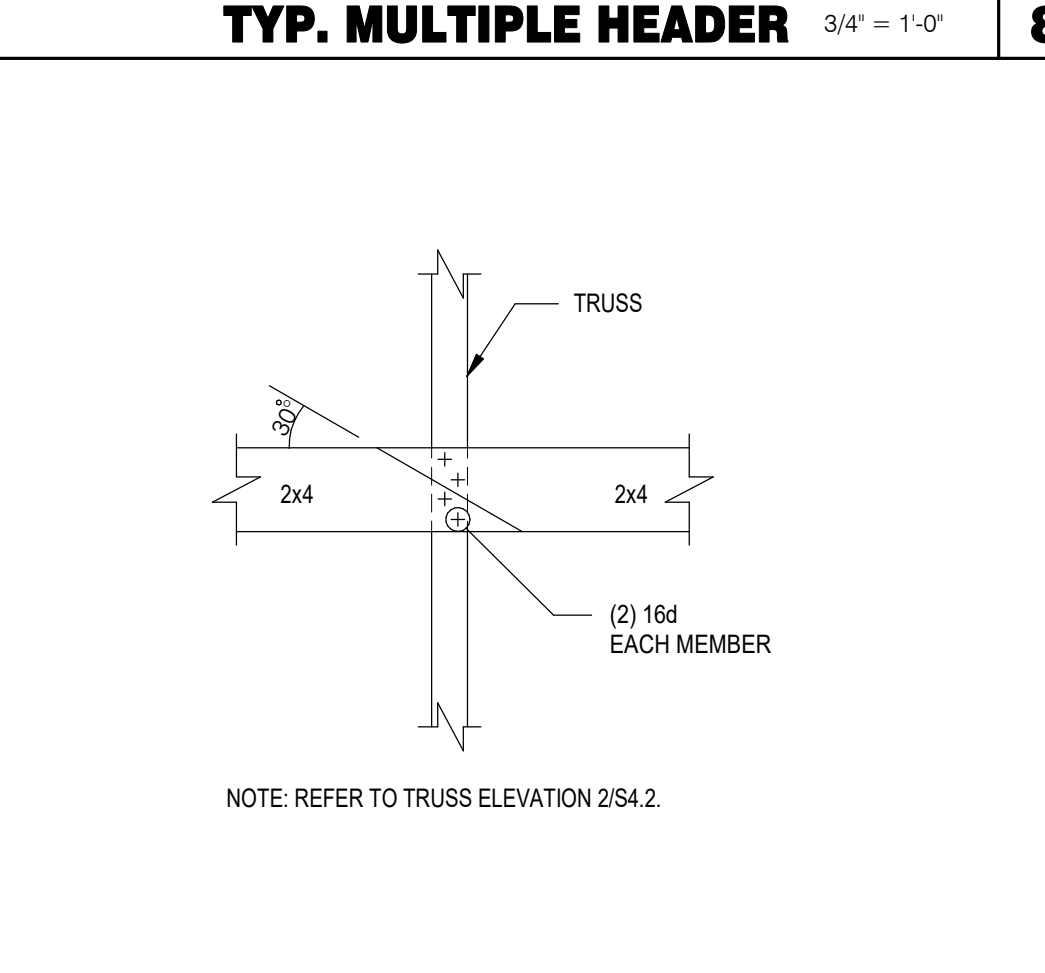
PLATE LAP DETAIL 1" = 1'-0" **12**



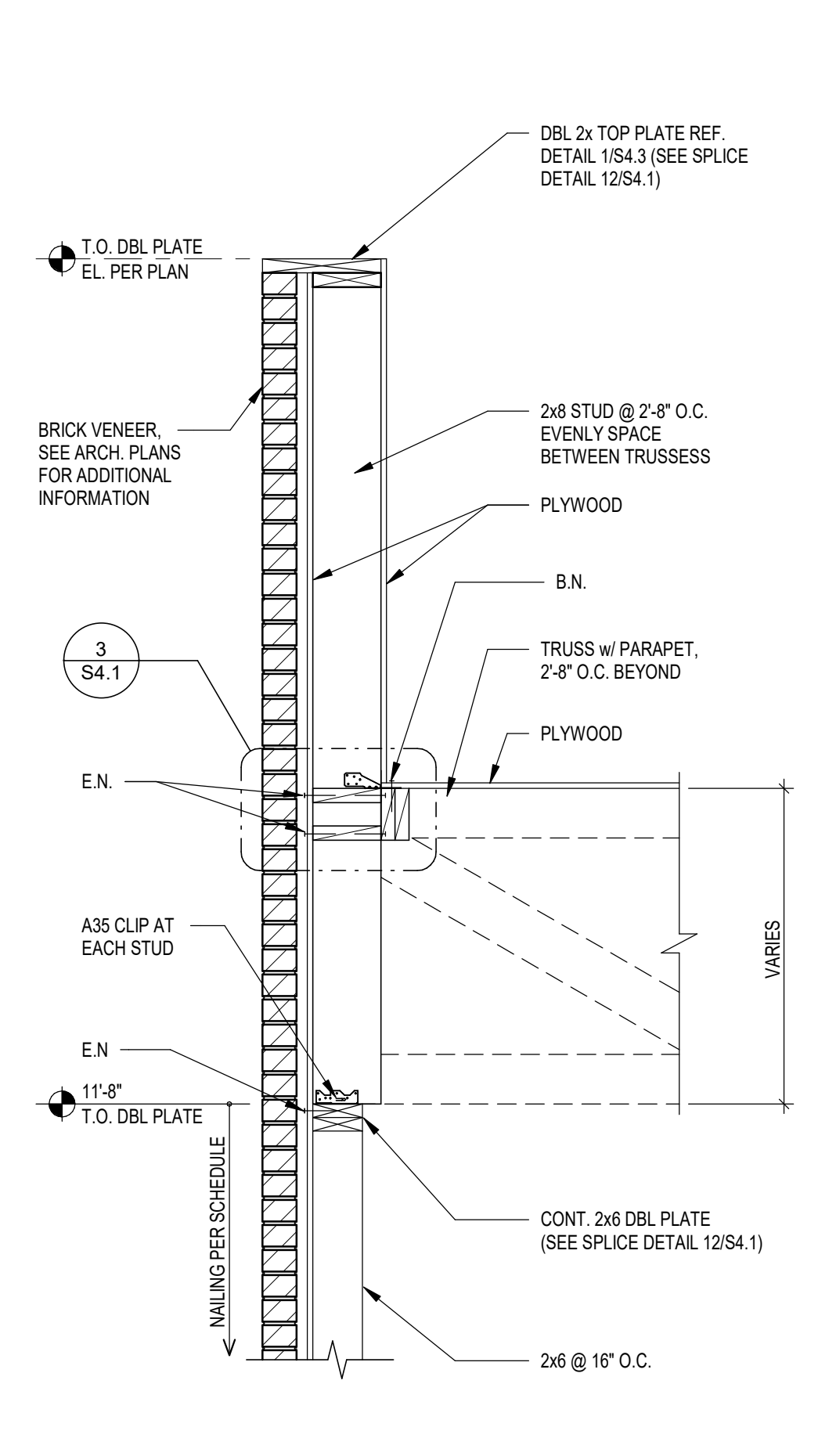
TYP. MULTIPLE HEADER 3/4" = 1'-0" **8**



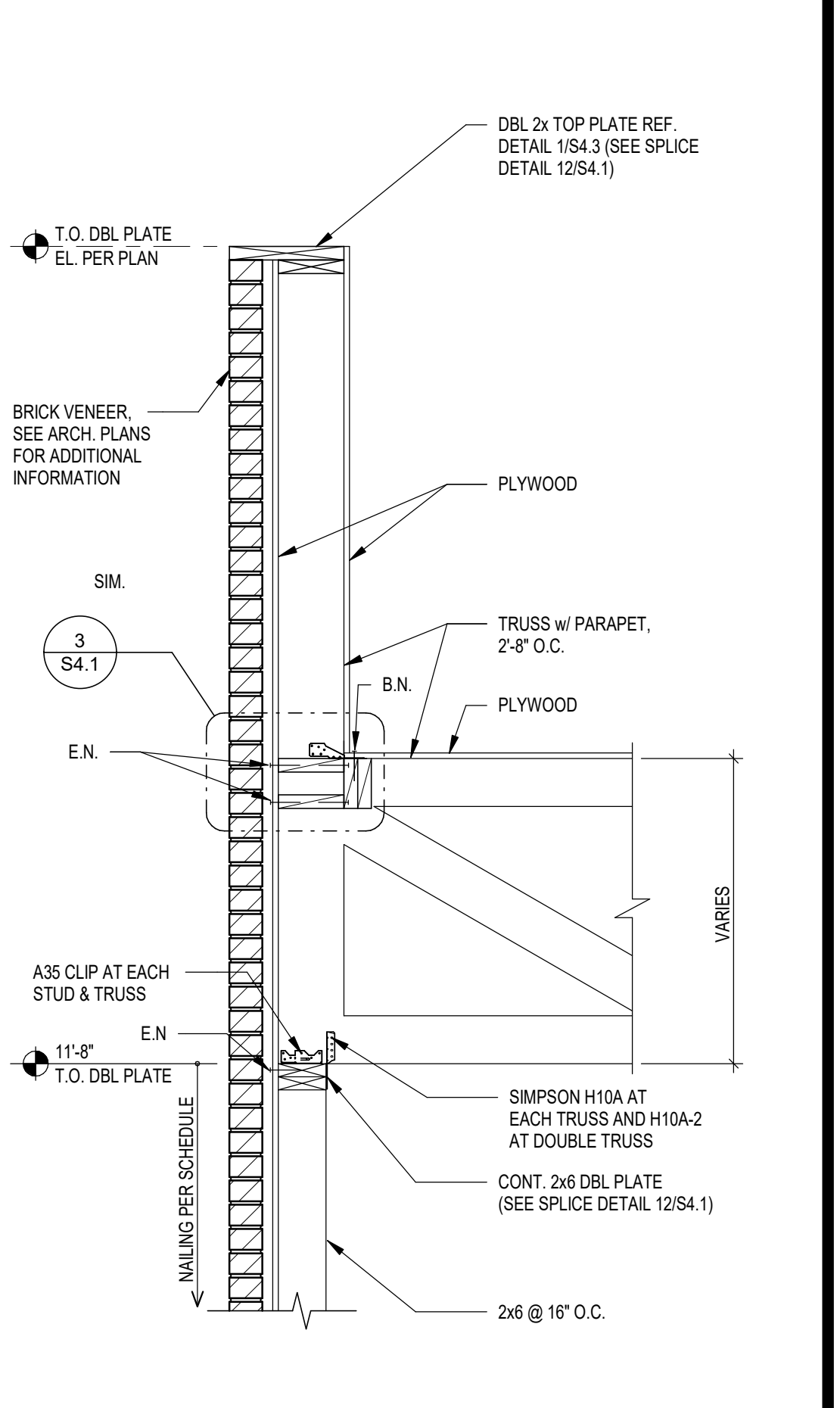
BRIDING LAP DETAIL N.T.S. **13**



BRIDGING LAP DETAIL @ OPEN CLG. N.T.S. **9**



SIDE WALL @ PARAPET STUD N.T.S. **5**



SIDE WALL @ TRUSS N.T.S. **2**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

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STRUCTURAL DETAILS FRAMING

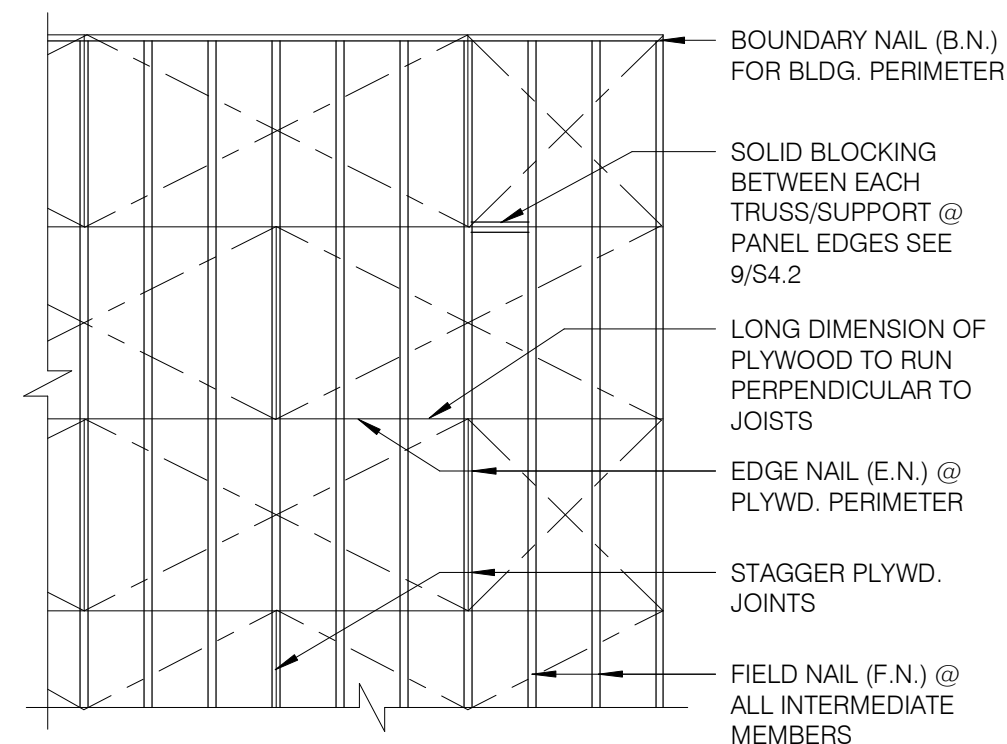
S4.1

PLOT DATE: 8/7/2018 9:17:20 AM

CONNECTION TYPE:

1. JOIST TO SILL OR GIRDER, TOENAIL (3-8d)
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 @ 24", 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 SPLICE)
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 AND AT EACH SPLICE)

NAILING:



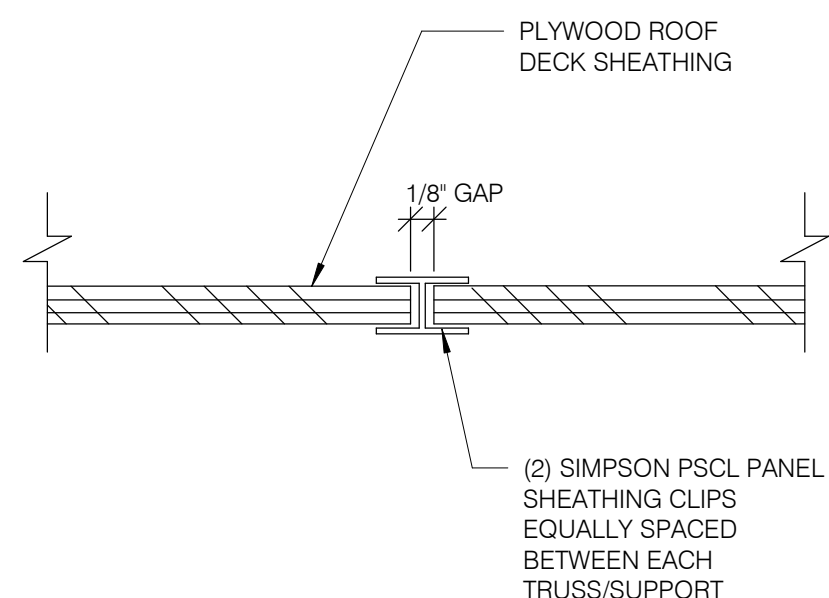
NOTES:
1. MIN. PLYWD. SHT. SIZE SHALL BE 2'-0" X 4'-0".
2. MIN. 3/8" NAILING EDGE DISTANCE.
3. EDGE NAIL (E.N.) O/ BEAMS AND AROUND ALL OPENINGS.

ROOF NAILING PLAN N.T.S. **8**

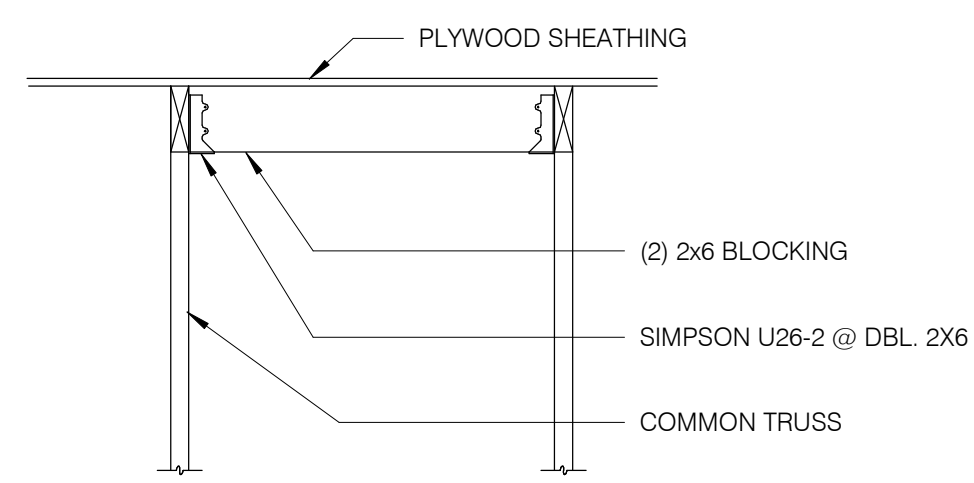
EQUIPMENT	DESIGN WEIGHT
HVAC UNIT - RTU-1 *	1000 lbs.
HVAC UNIT - RTU-2 *	1500 lbs.
EXHAUST FAN - EF-1 *	200 lbs.
EXHAUST FAN - EF-2 *	70 lbs.
HOOD #1 - TACO BELL	400 lbs.
ICE CONDENSERS	200 lbs.
FREEZER CONDENSER	300 lbs.
COOLER CONDENSER	300 lbs.

* A. ALL DESIGN WEIGHTS INCLUDE CURB.
B. COORDINATE WEIGHTS WITH HVAC UNIT SCHEDULE 1/M1.0 PRIOR TO ENLISTING TRUSS ENGINEER.

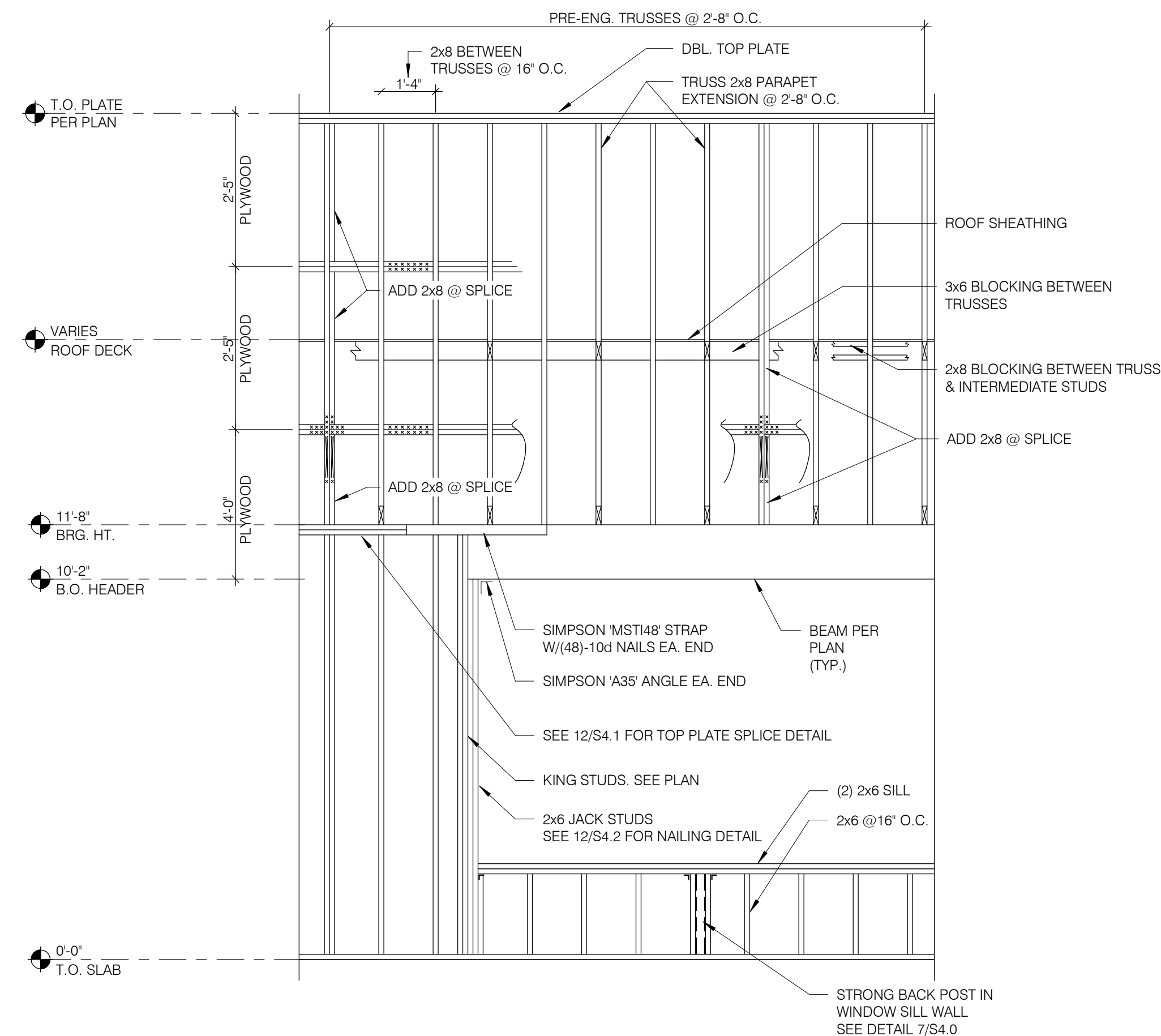
ROOF TOP EQUIPMENT WEIGHTS N.T.S. **5**



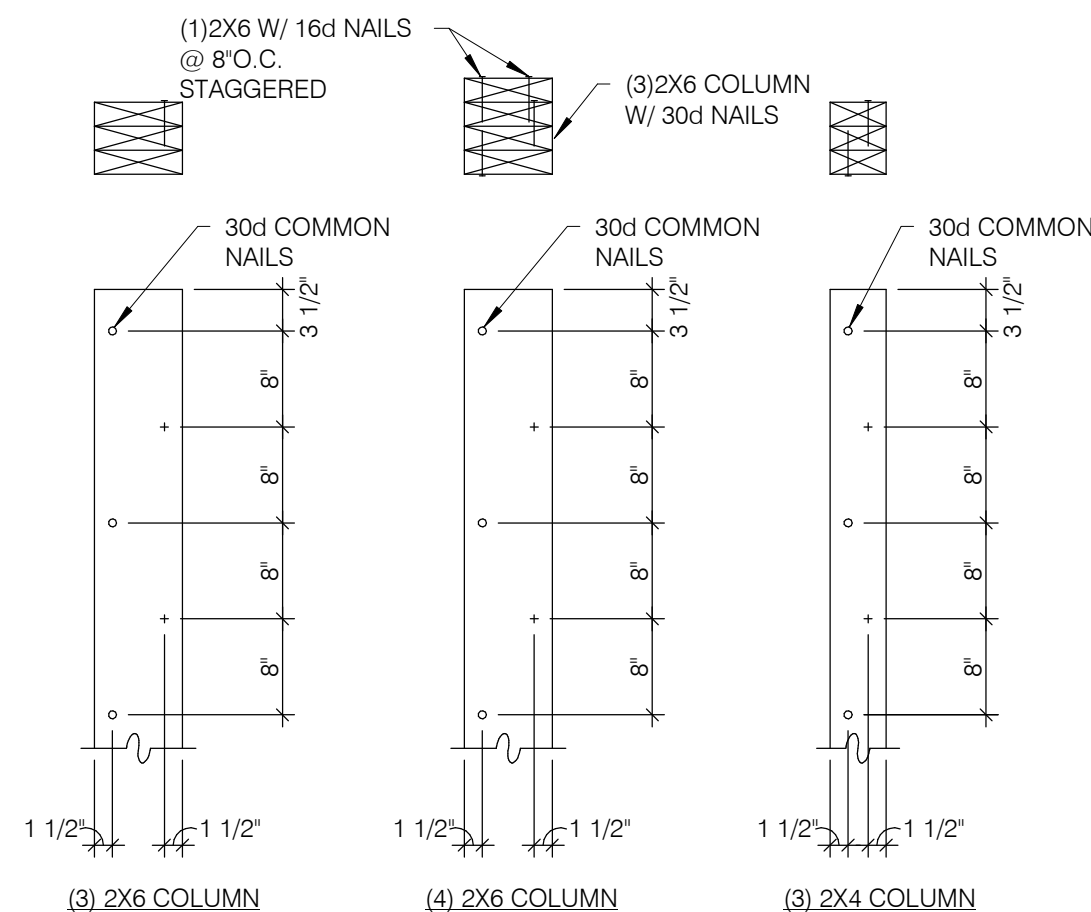
PLYWOOD EDGE BLOCKING N.T.S. **9**



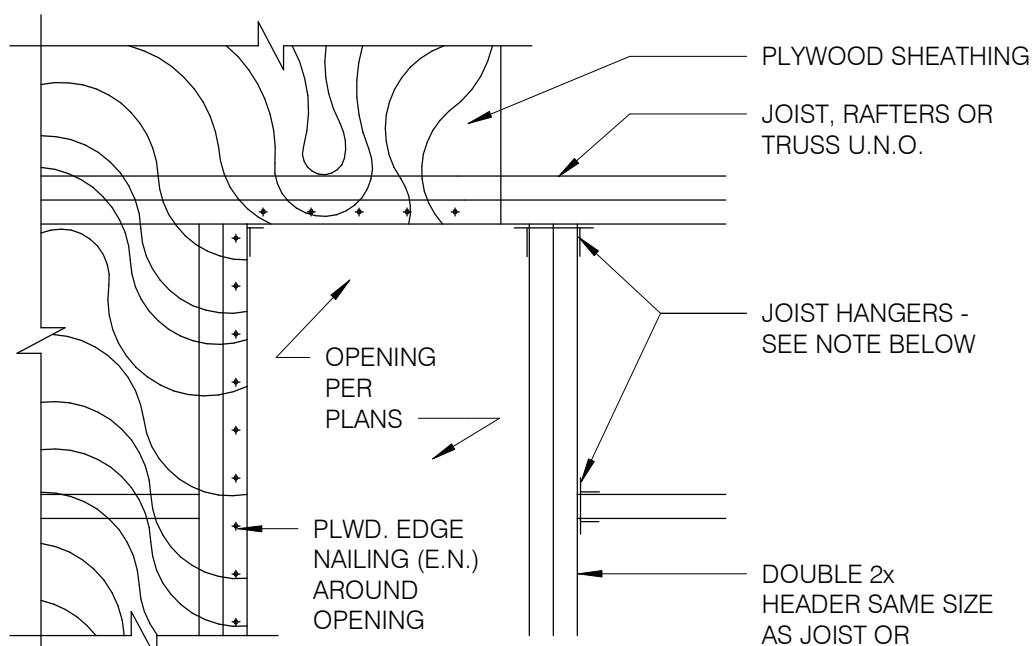
ROOF OPENING DETAIL N.T.S. **6**



WALL FRAMING DETAIL 3/8" = 1'-0" **1**



BUILT-UP 2X COLUMNS N.T.S. **12**



NOTE:
HANGERS SHALL BE 'SIMPSON' STANDARD 'U' @ 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.

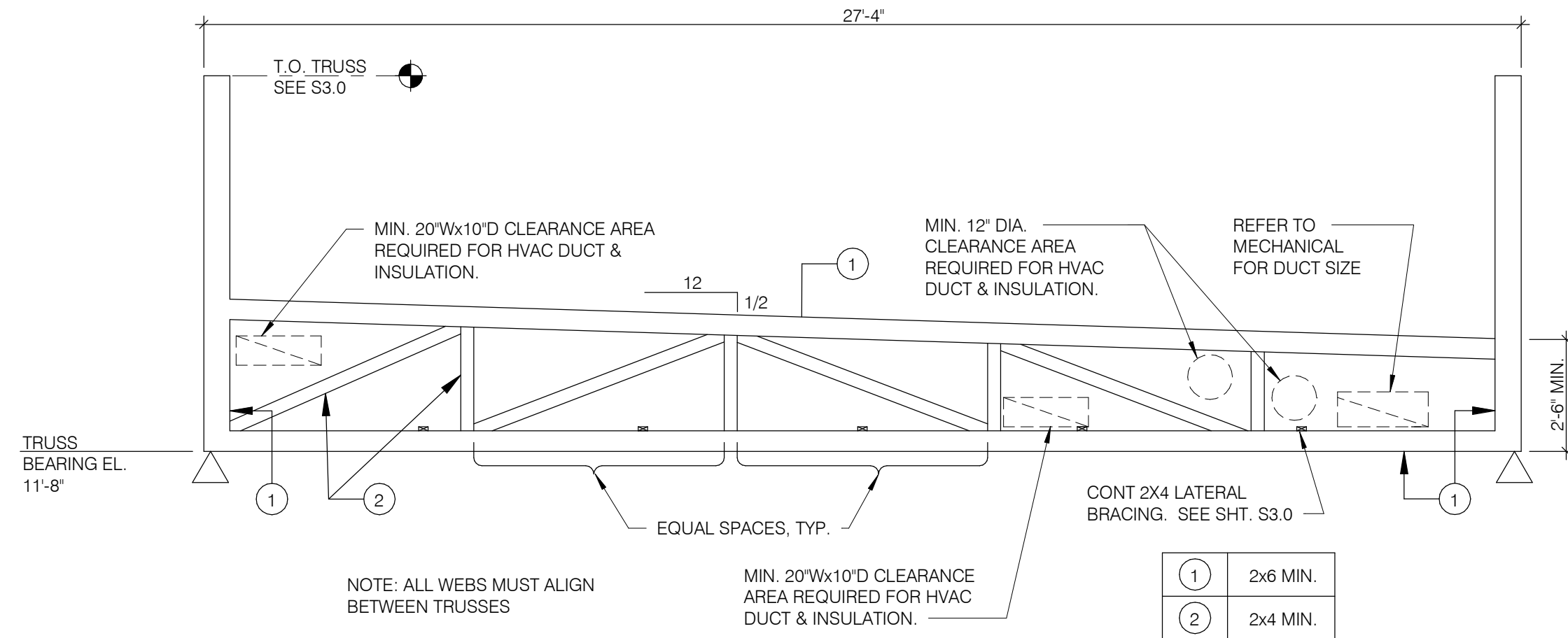
TYPICAL ROOF OPENING 1" = 1'-0" **10**

TRUSS TYPES	SINGLE TRUSS DESIGNATION	DOUBLE TRUSS DESIGNATION	BEARING POINT	COMMENTS
T1-T24	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.

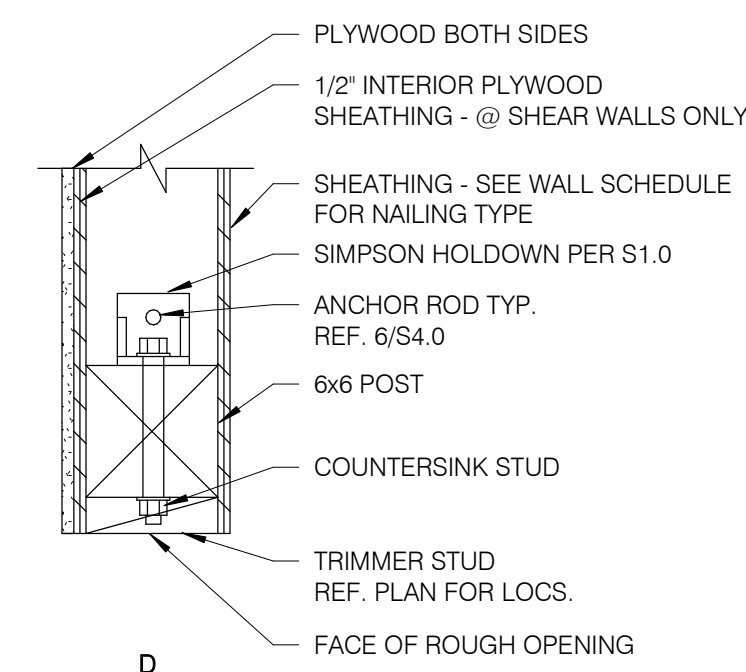
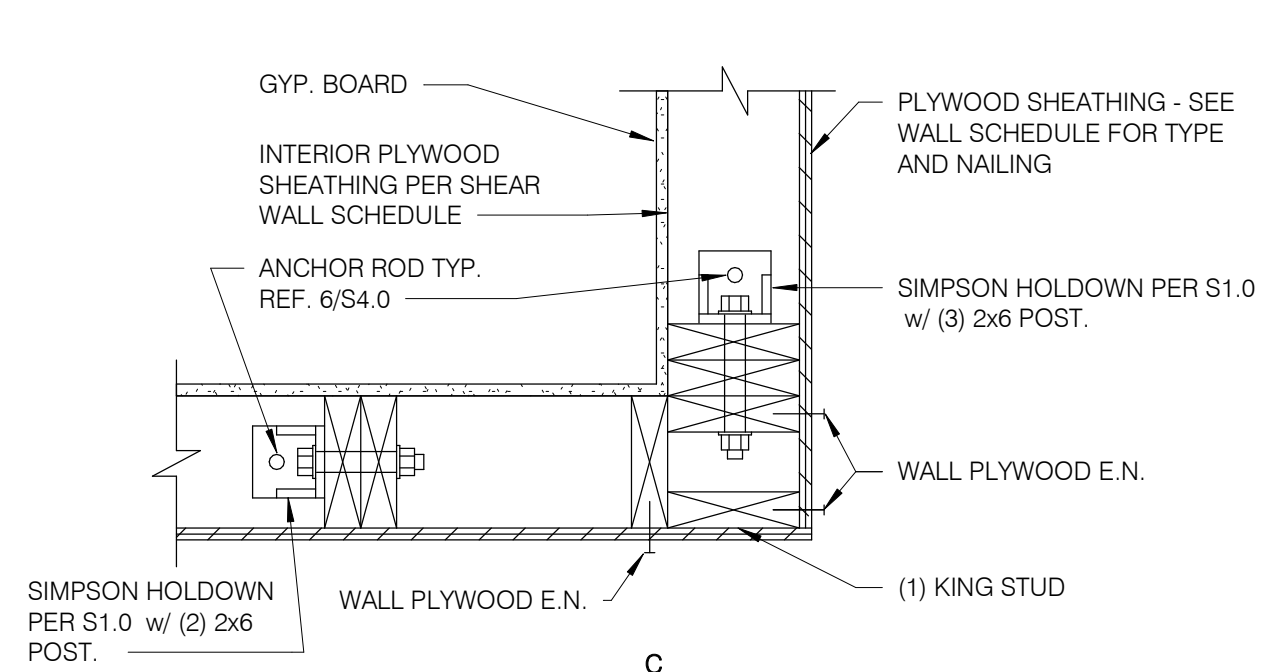
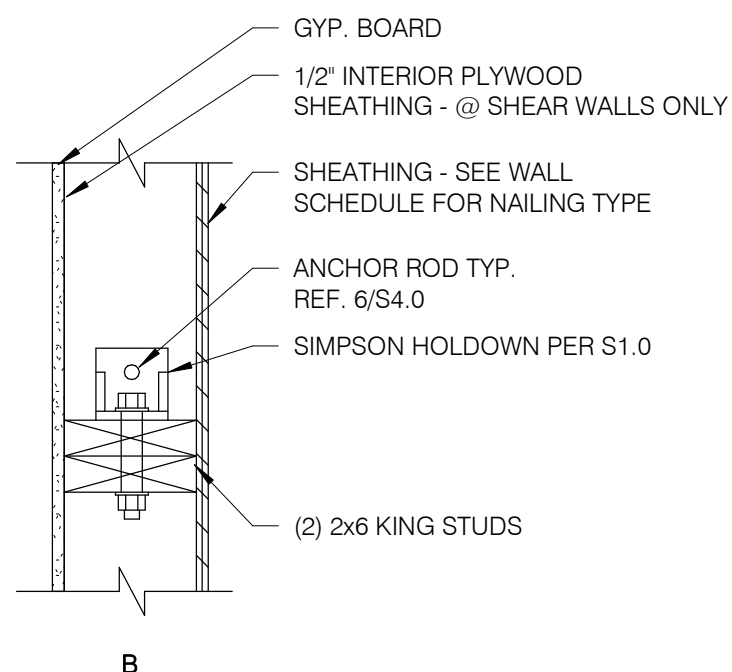
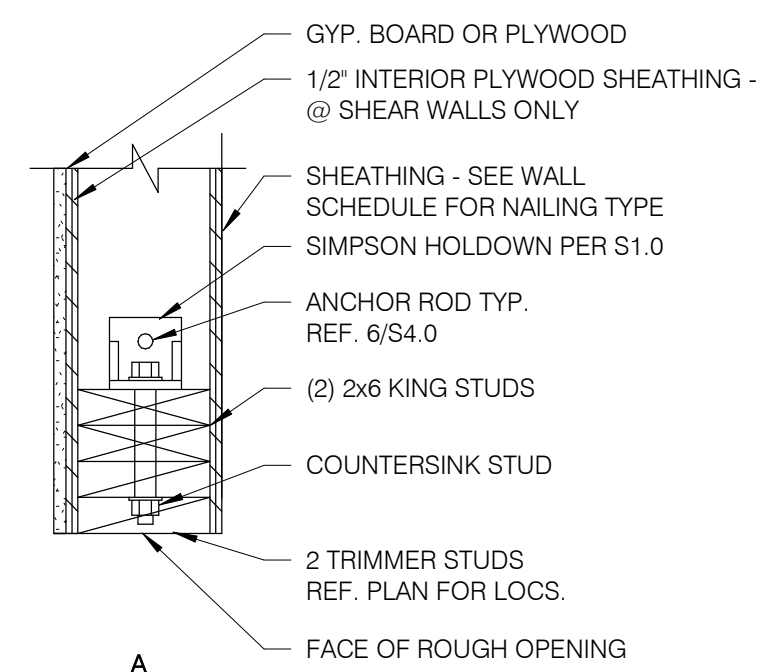
TRUSS SCHEDULE N.T.S. **7**



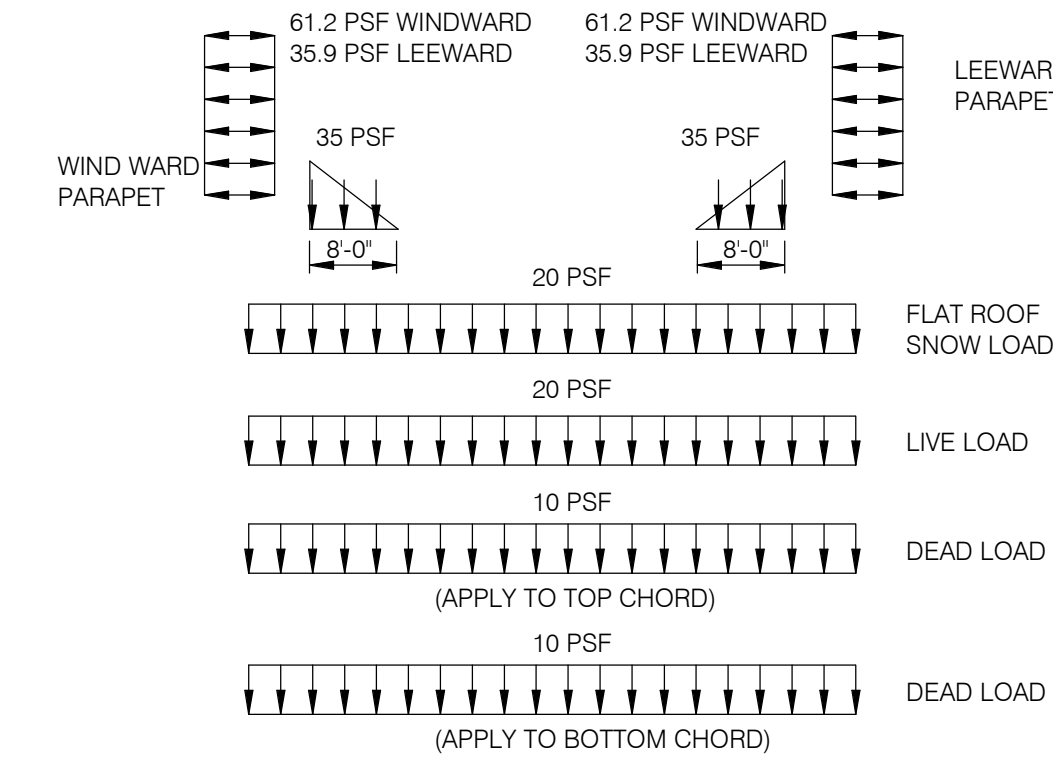
TRUSS ELEVATION N.T.S. **2**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20



HOLDOWN DETAILS 1 1/2" = 1'-0" **4**



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

TRUSS LOAD DIAGRAMS N.T.S. **3**

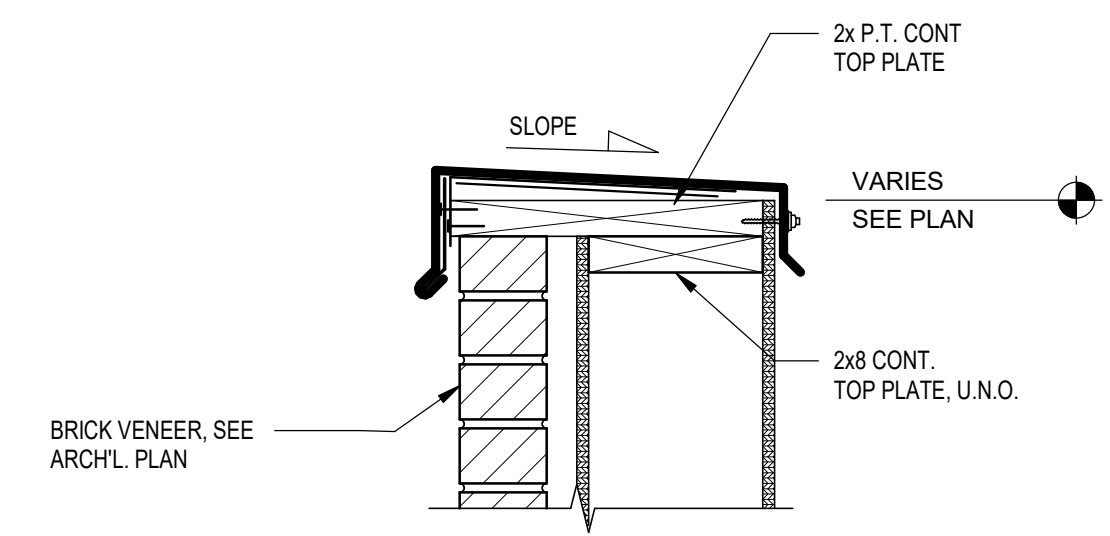
TACO BELL
NORTHLINE ROAD
SOUTHGATE, MI 48195



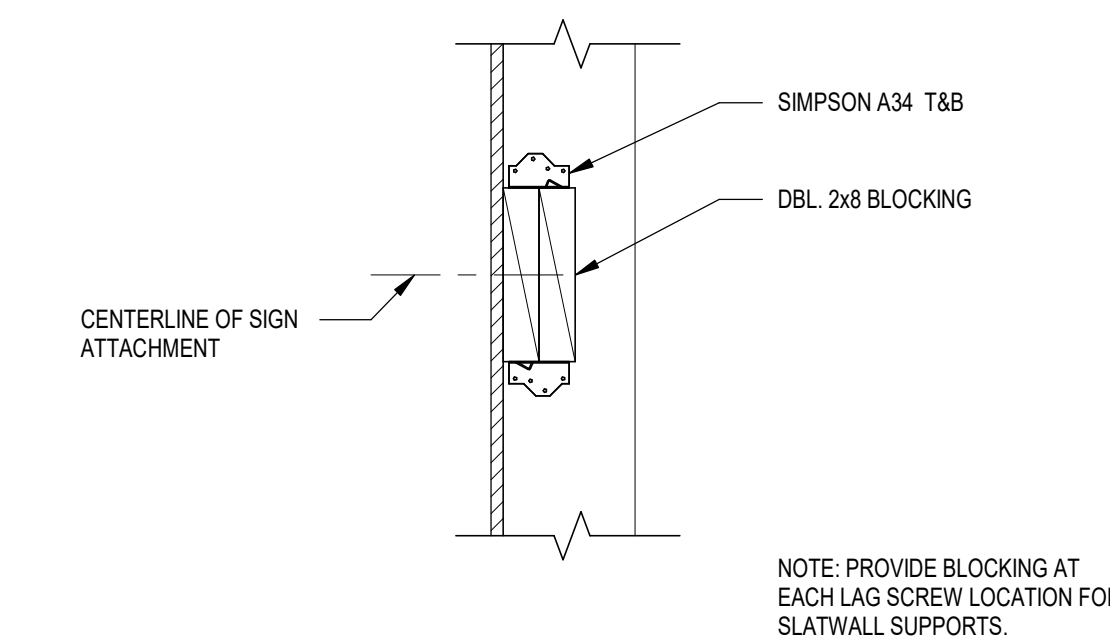
STRUCTURAL DETAILS ROOF

S4.2

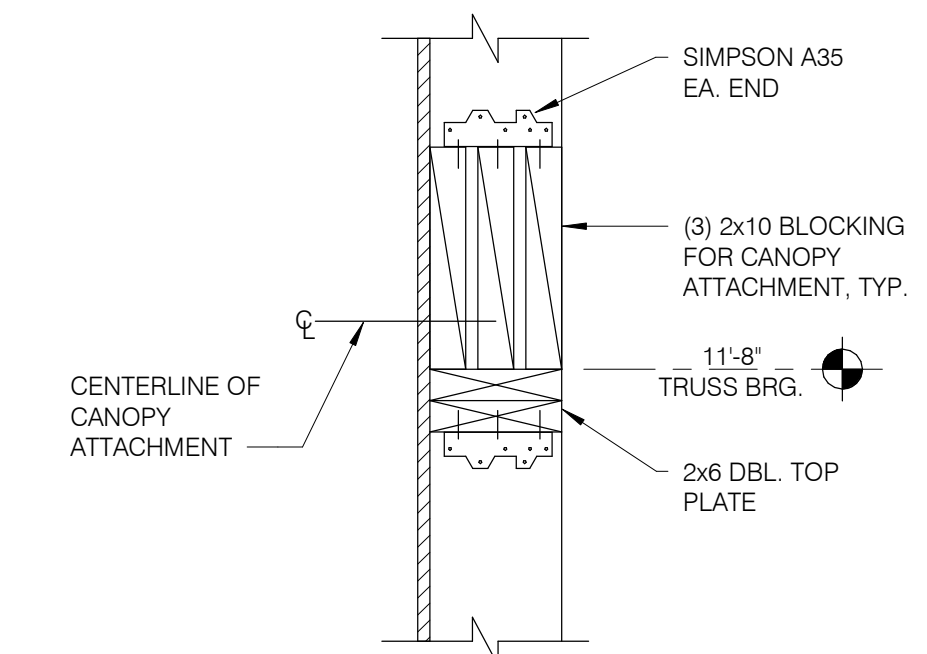
PLOT DATE: 8/7/2018 9:17:22 AM



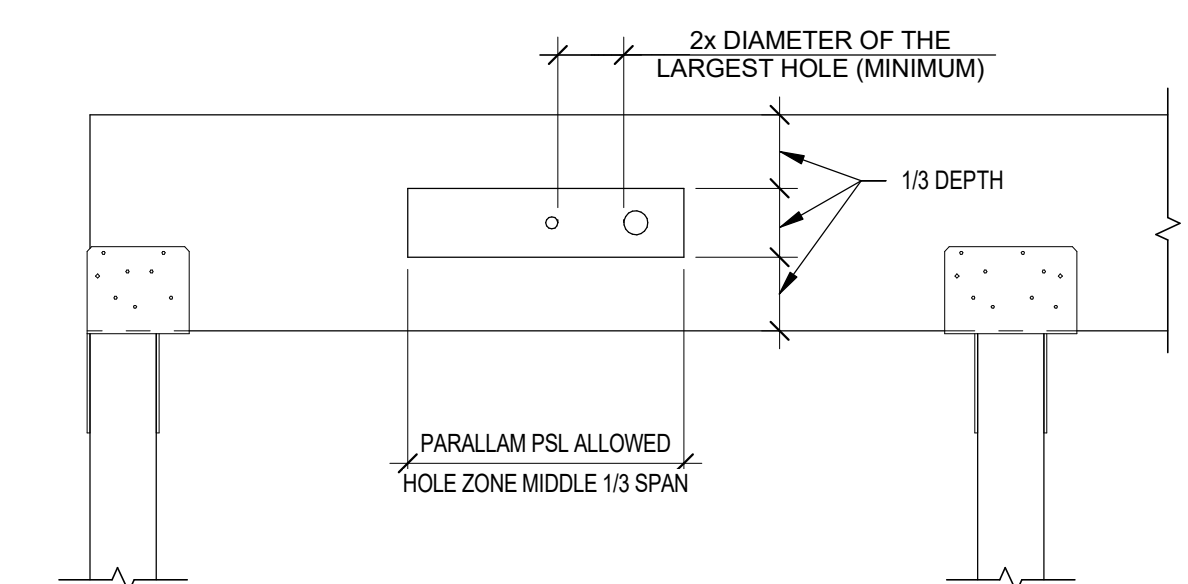
TYPICAL PARAPET CAP 1 1/2" = 1'-0" **1**



SIGNAGE ATTACH. BLOCKING DTL. 1 1/2" = 1'-0" **2**



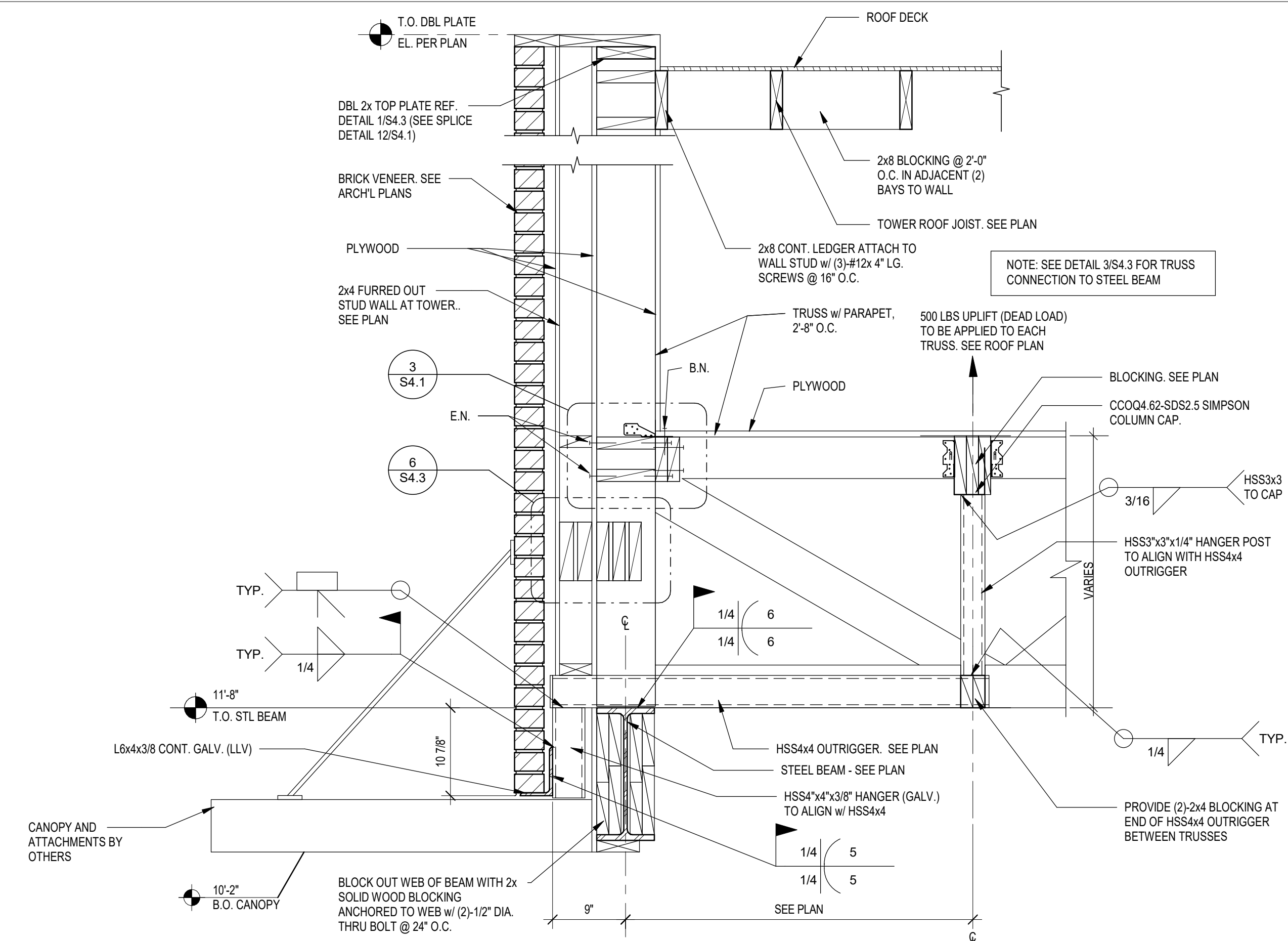
CANOPY TIE BACK BLOCKING DETAIL 12" = 1'-0" **3**



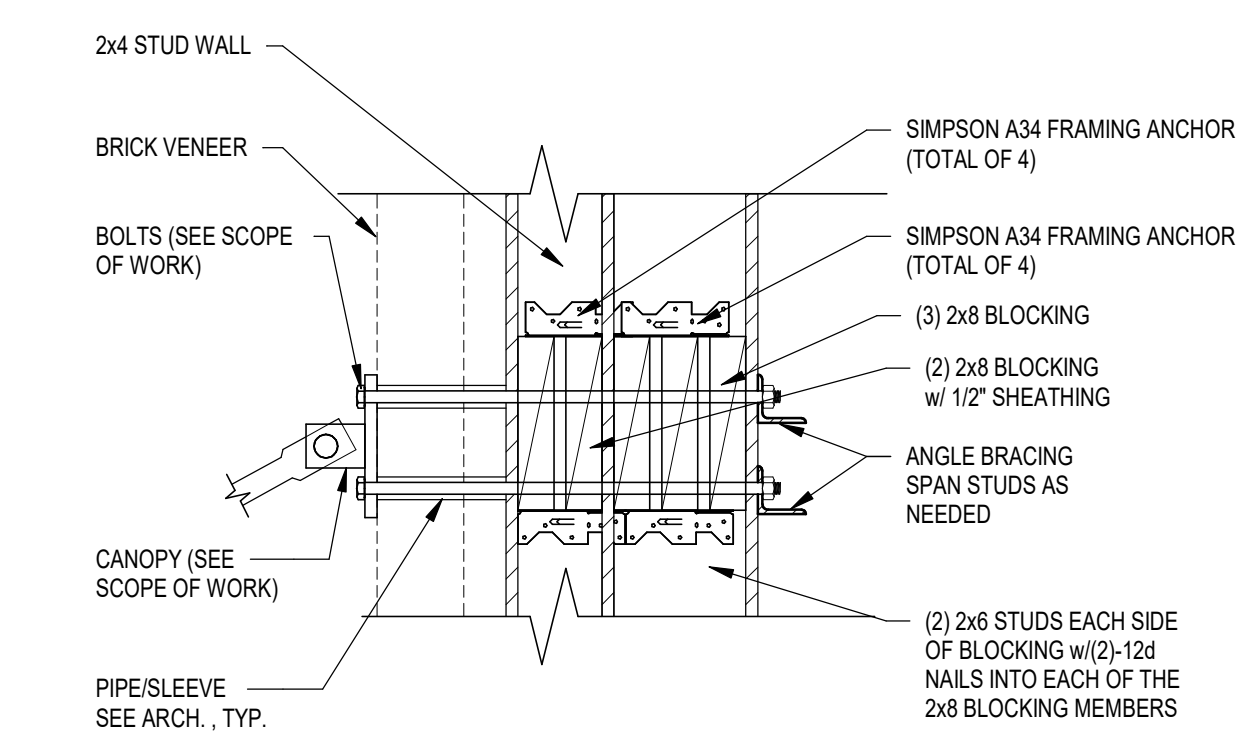
NOTES:
ALLOWED HOLE SIZE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM LOADS ONLY.
ROUND HOLES ONLY.
NO HOLES IN CANTILEVERS.
NO HOLES IN HEADERS OR BEAMS IN PLANK ORIENTATION.

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

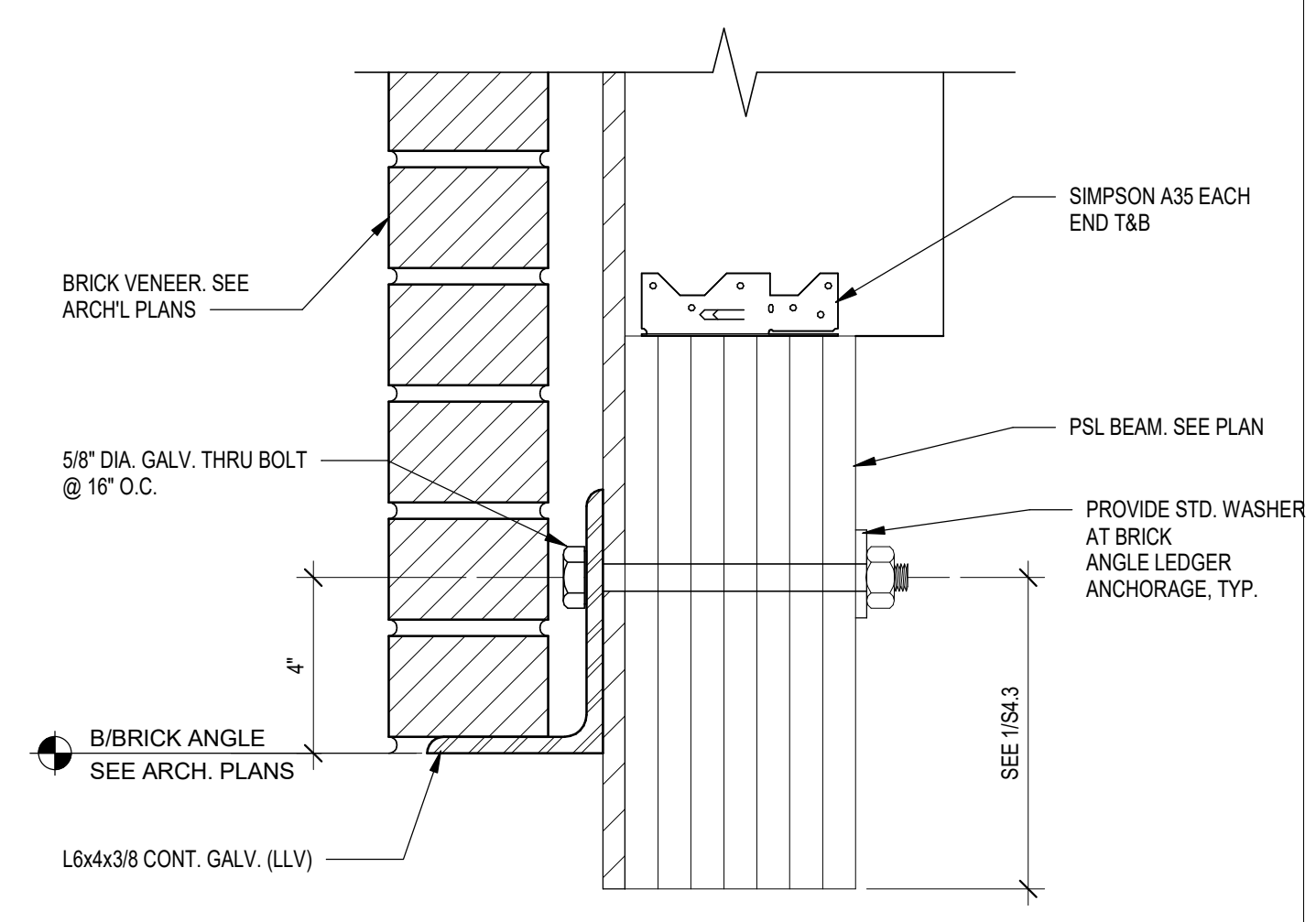
PSL BEAM PENETRATION DETAIL 3/4" = 1'-0" **4**



DRIVE THRU TOWER 1" = 1'-0" **5**



DRIVE THRU TOWER 1 1/2" = 1'-0" **6**



BRICK LEDGER DETAIL 3" = 1'-0" **7**

NOT USED N.T.S. **10**

NOT USED N.T.S. **11**

NOT USED N.T.S. **12**

NOT USED N.T.S. **13**

NOT USED N.T.S. **8**

NOT USED N.T.S. **9**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

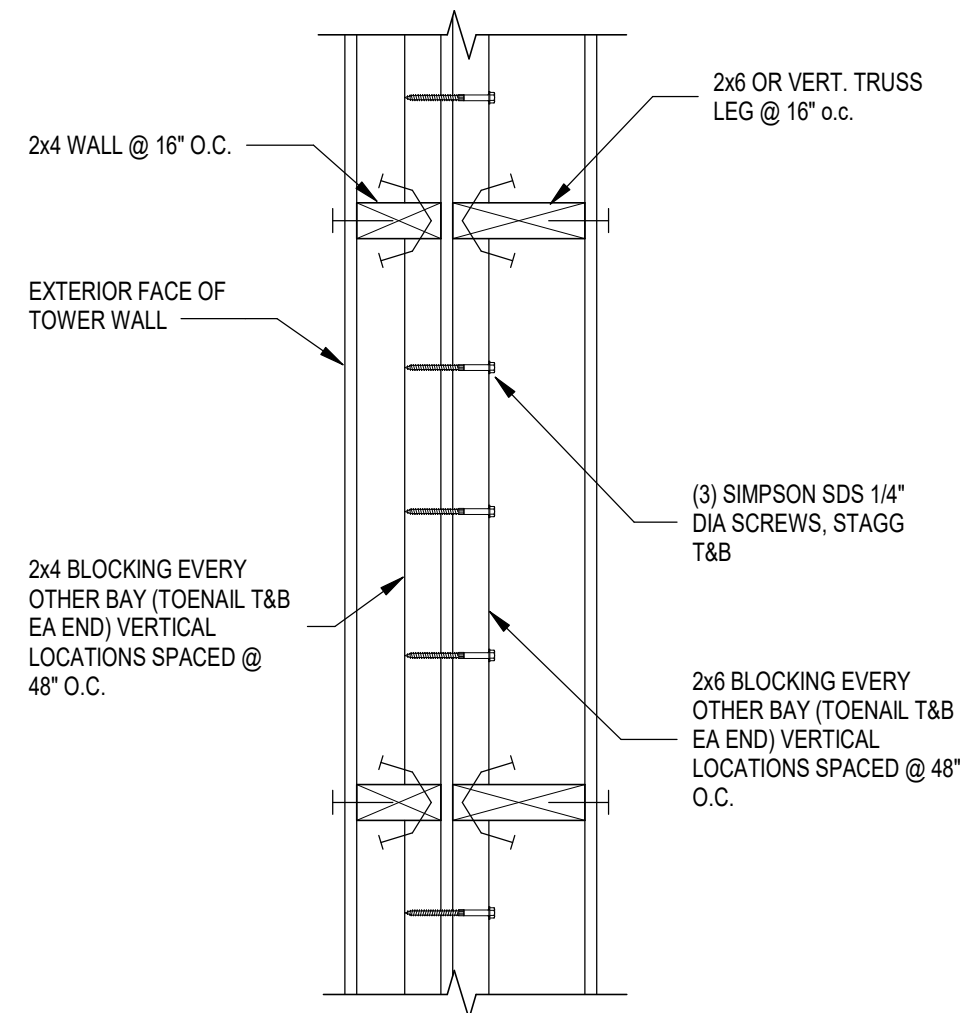
TACO BELL
NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

STRUCTURAL DETAILS TACO BELL TOWER

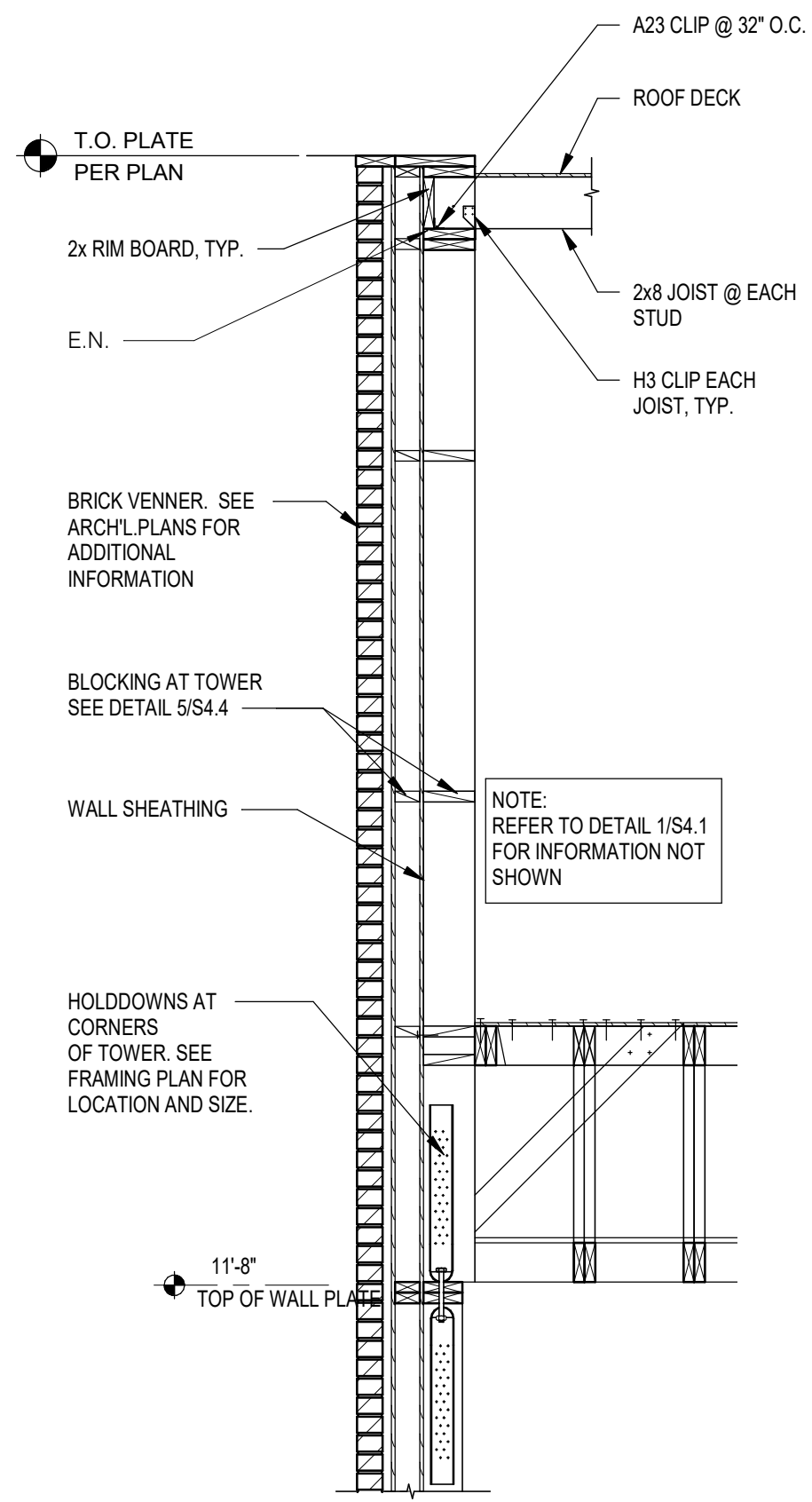
S4.3

PLOT DATE: 8/7/2018 9:17:24 AM

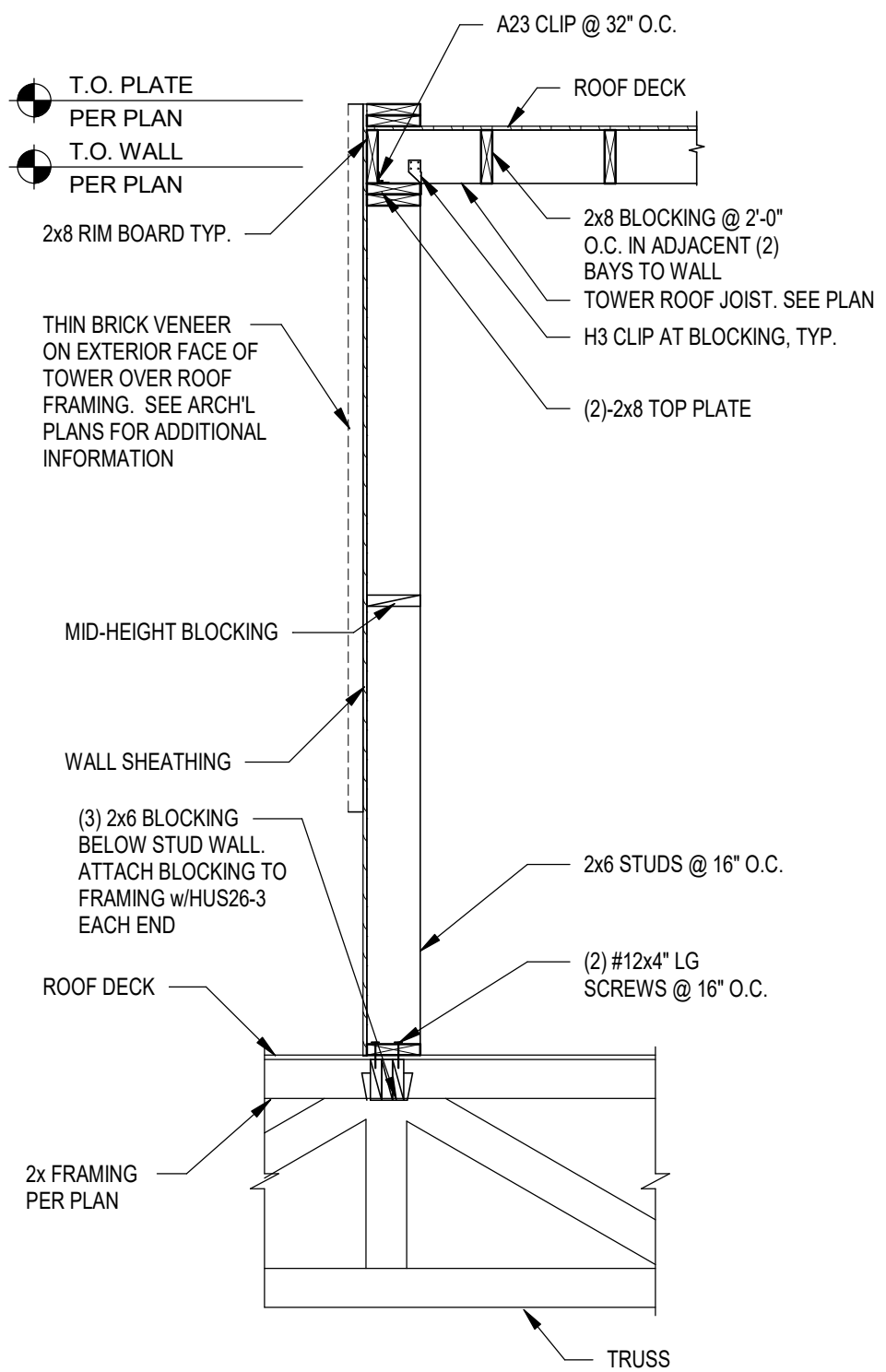


NOT USED N.T.S. **7**

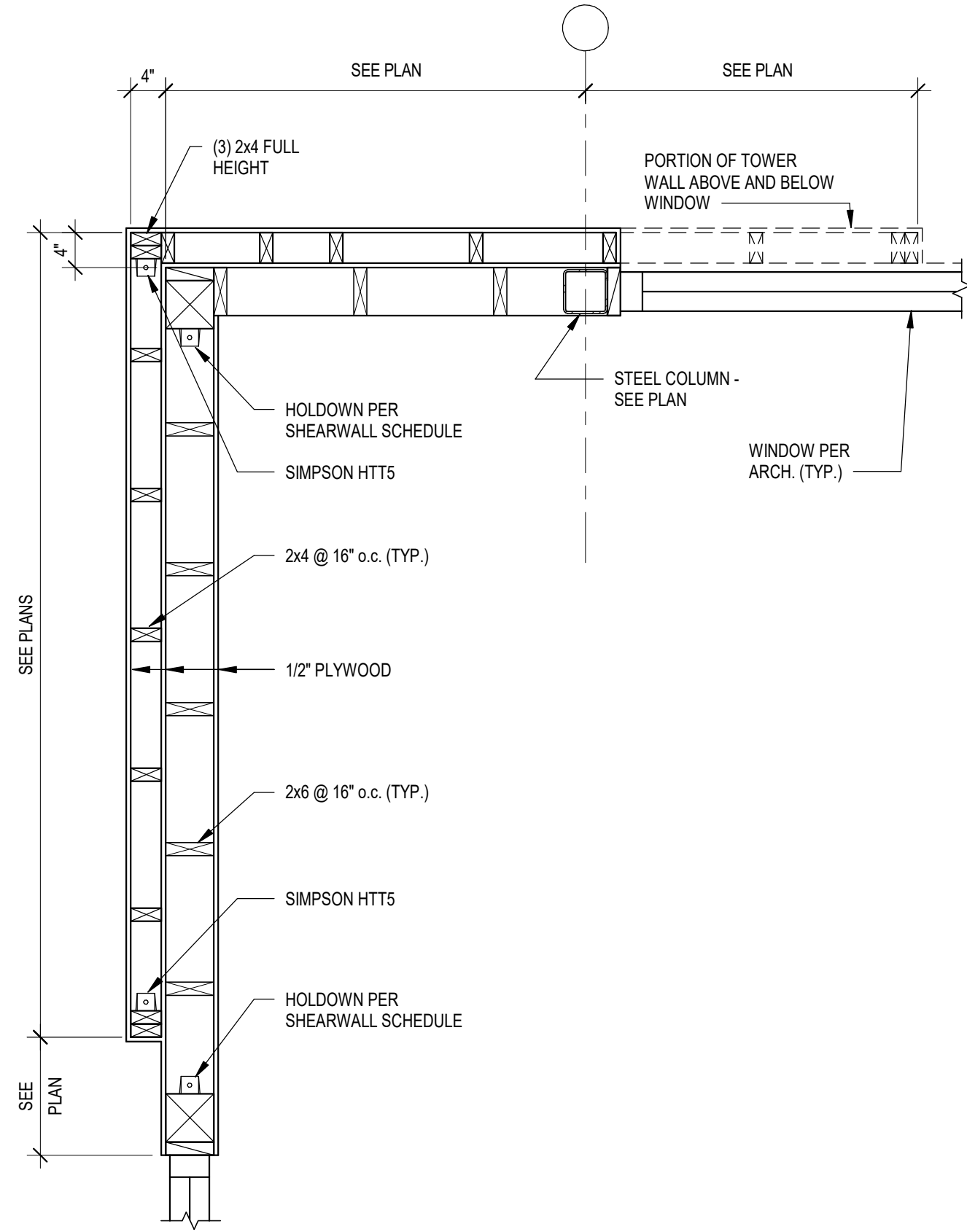
EXTERIOR WALL DETAIL AT TOWER 1 1/2" = 1'-0" **5**



SECTION @ TOWER FRONT 1/2" = 1'-0" **3**

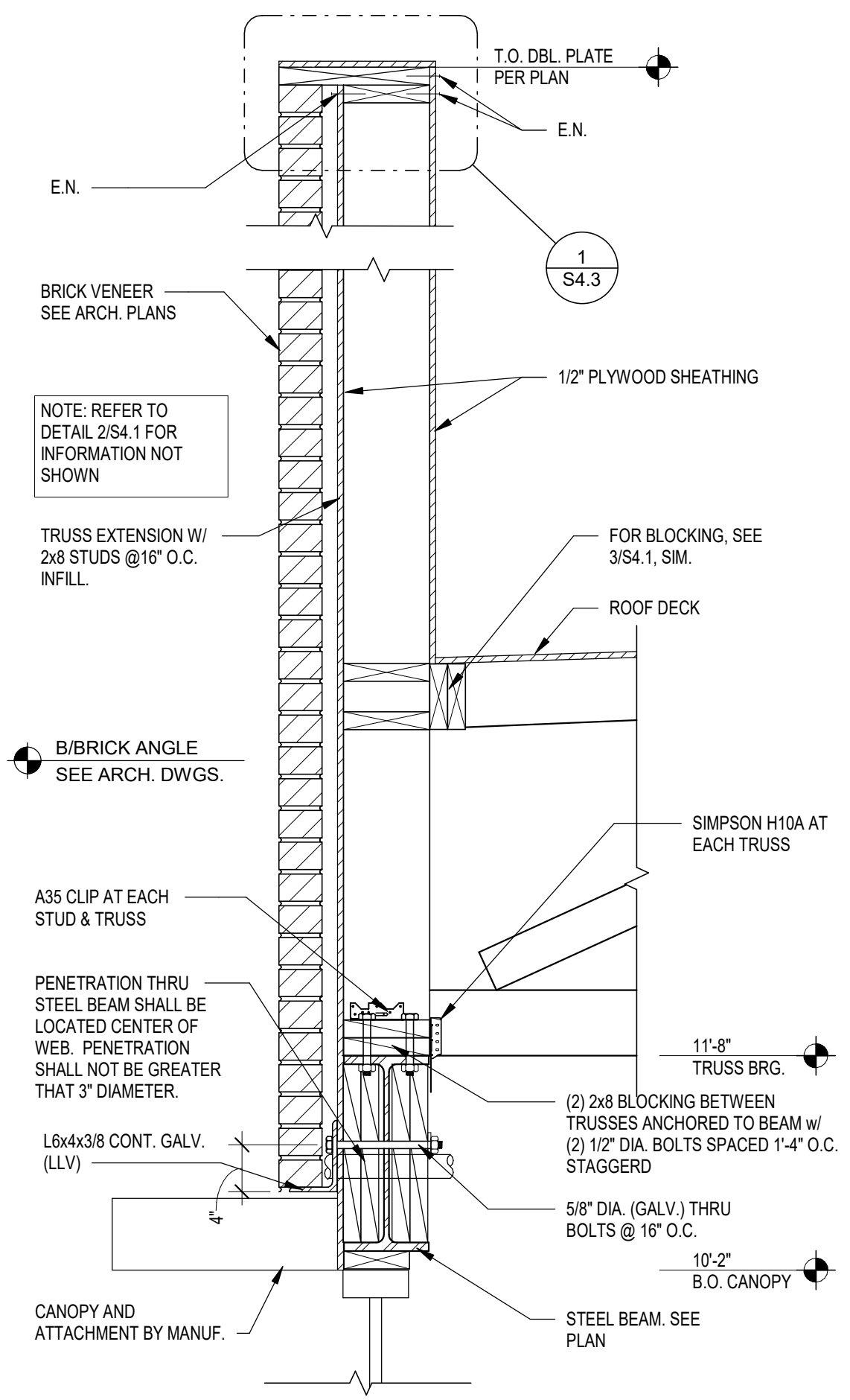


TOWER WALL SECTION 1/2" = 1'-0" **1**

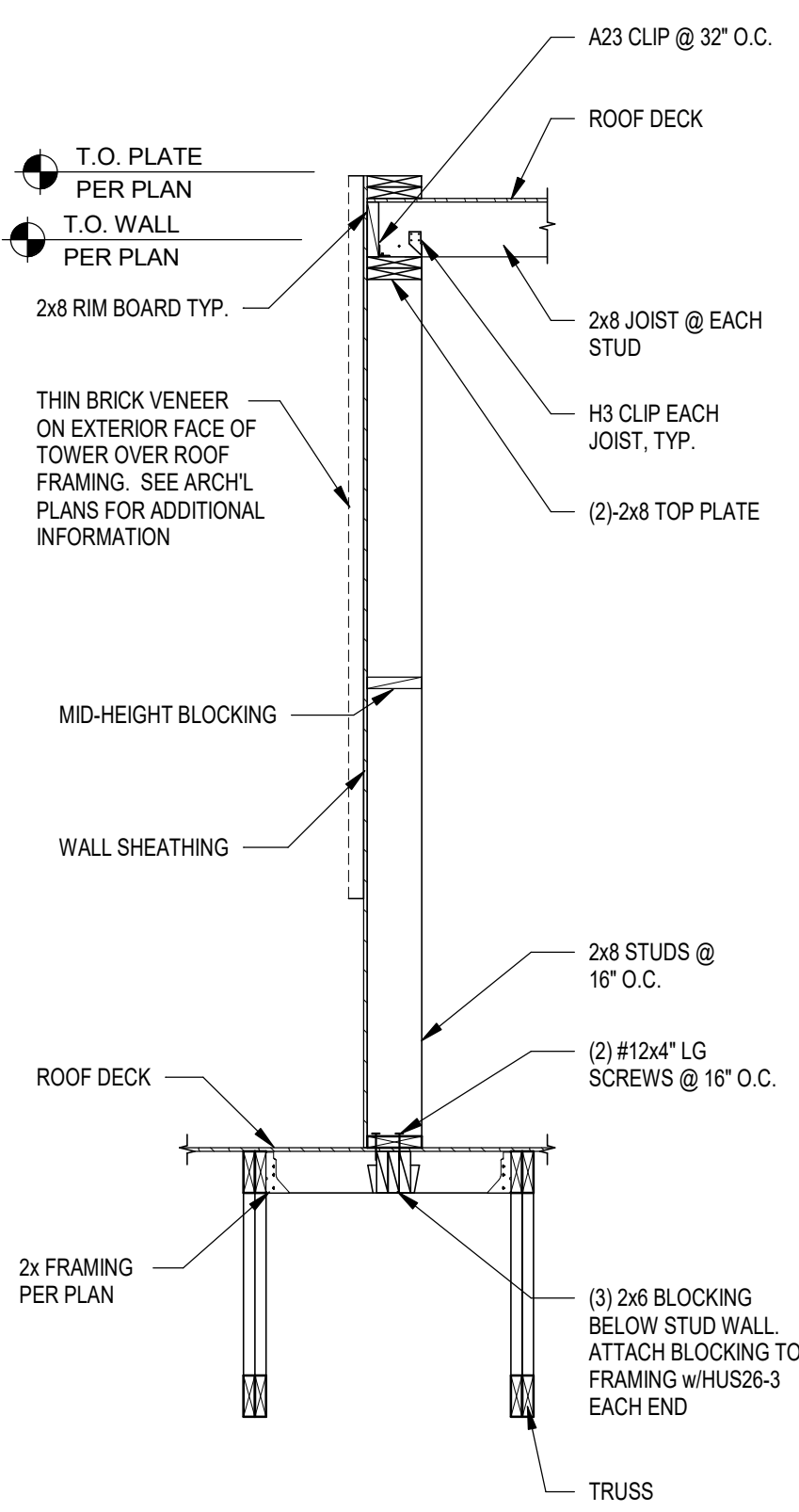


NOT USED N.T.S. **8**

FRONT TOWER FRAMING 3/4" = 1'-0" **6**



SECTION @ DRIVE-THRU WINDOW CANOPY 1" = 1'-0" **4**



TOWER WALL SECTION 1/2" = 1'-0" **2**

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06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
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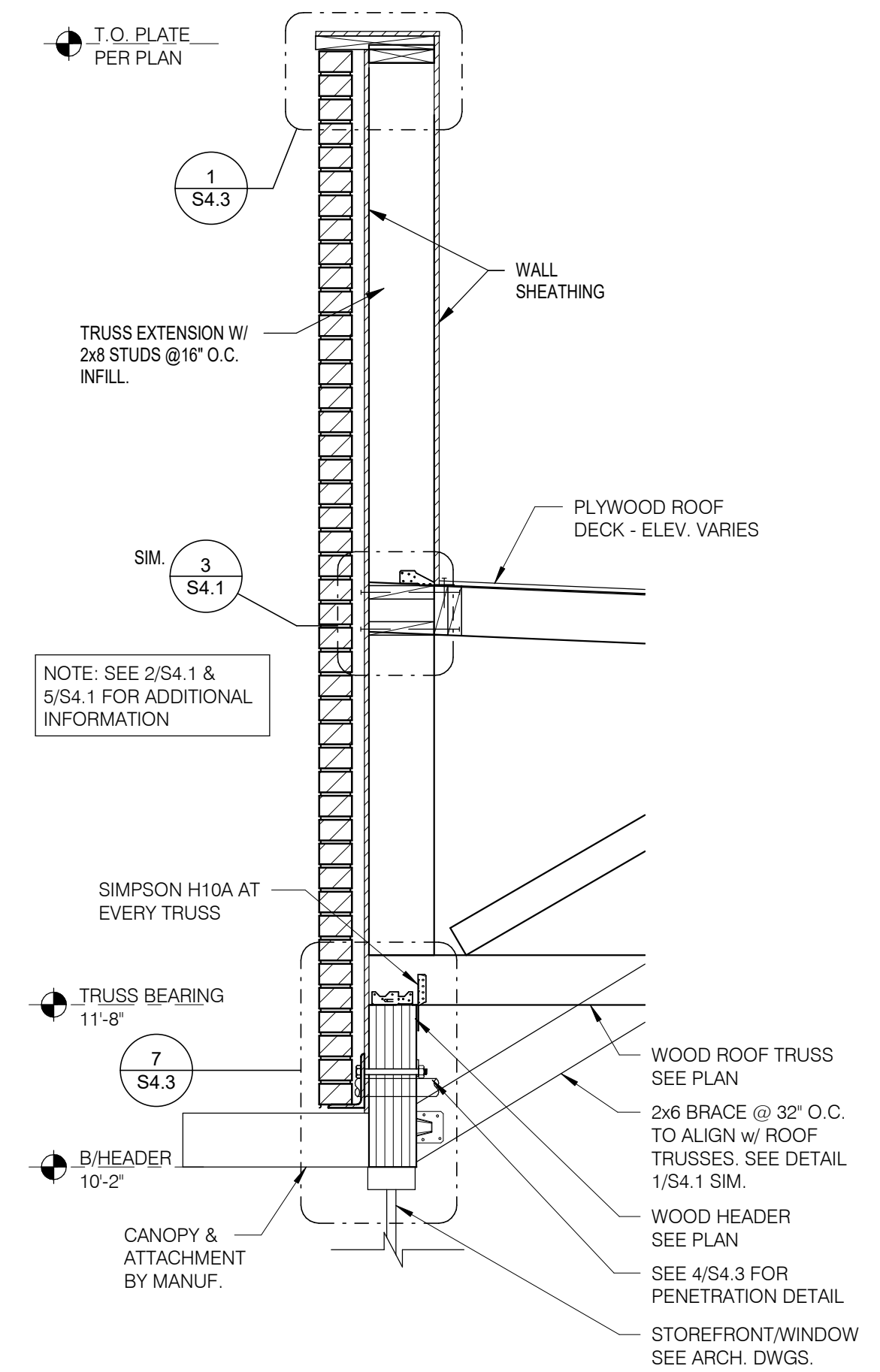
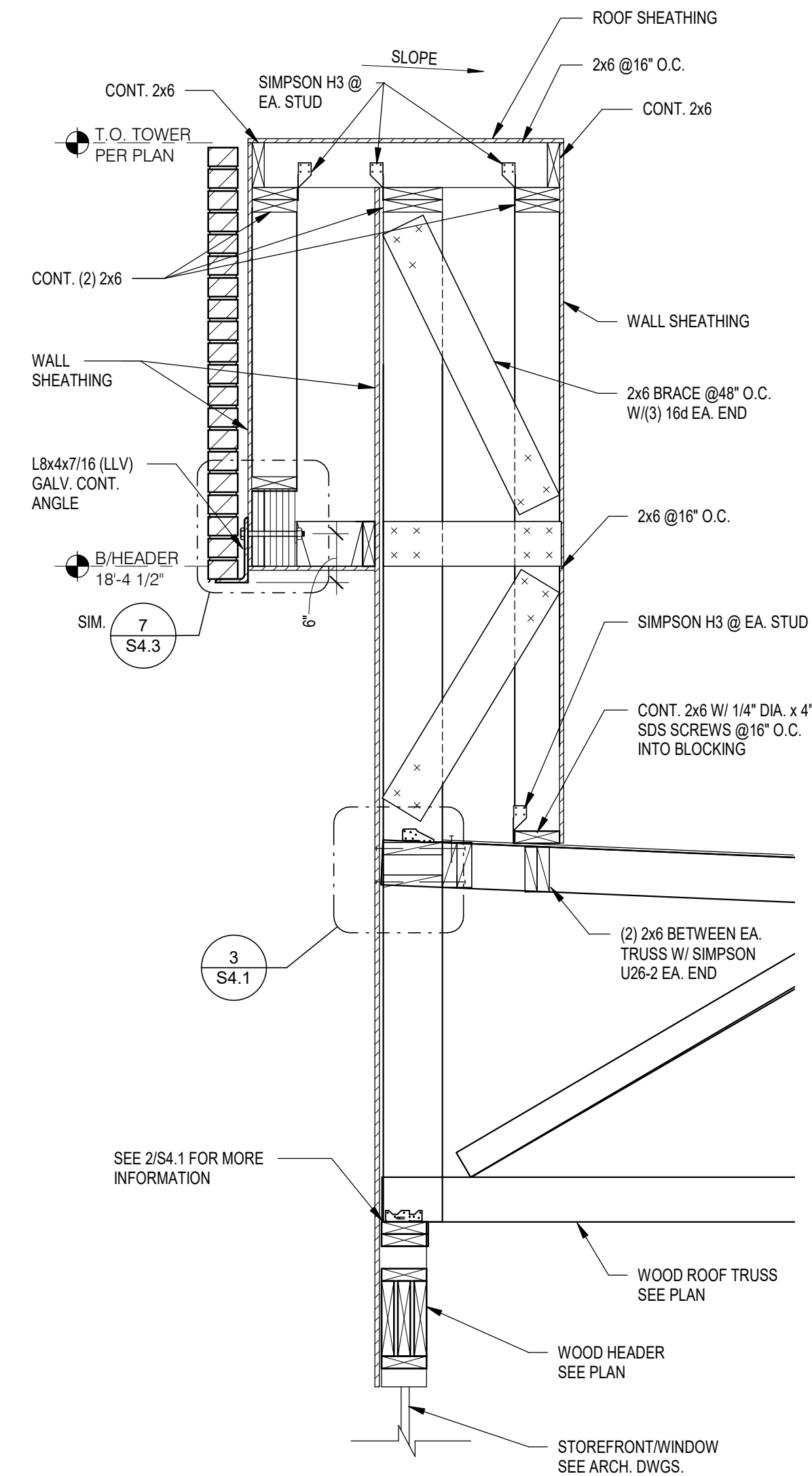
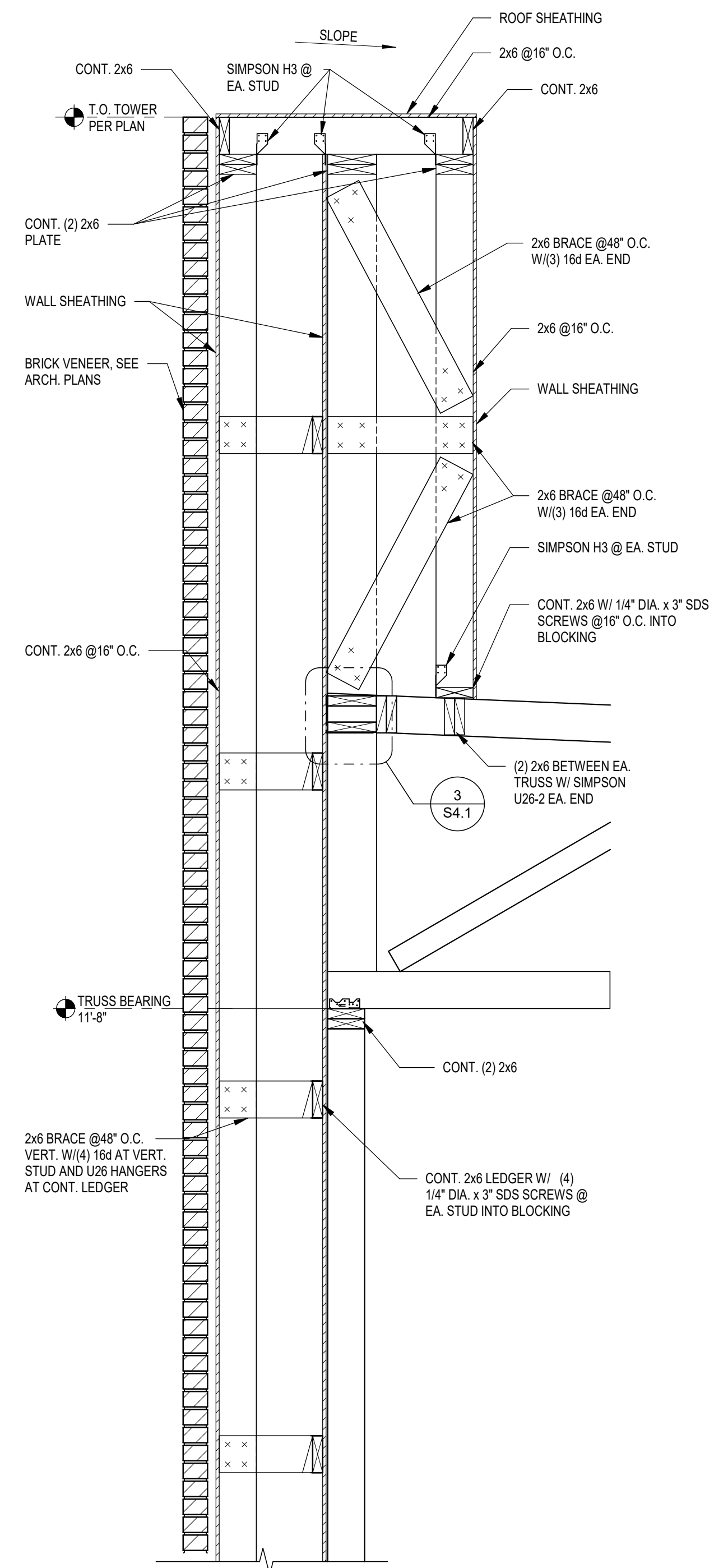
TACO BELL
NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

STRUCTURAL SECTIONS

S4.4

PLOT DATE: 8/7/2018 9:17:25 AM



08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

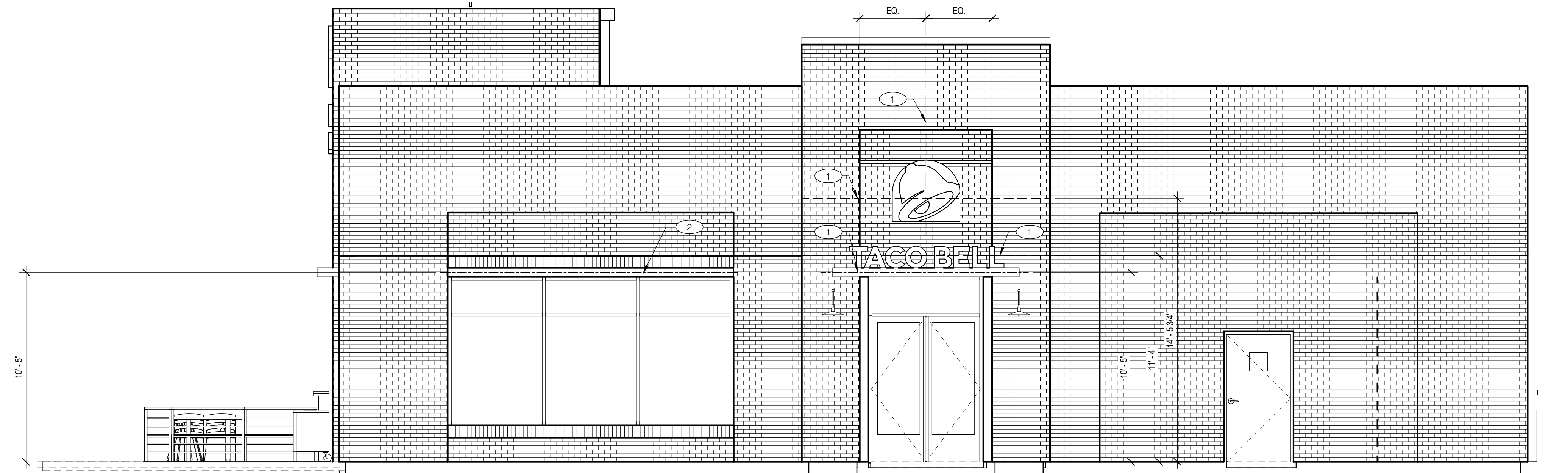
TACO BELL
NORTHLINE ROAD
SOUTHGATE, MI 48195



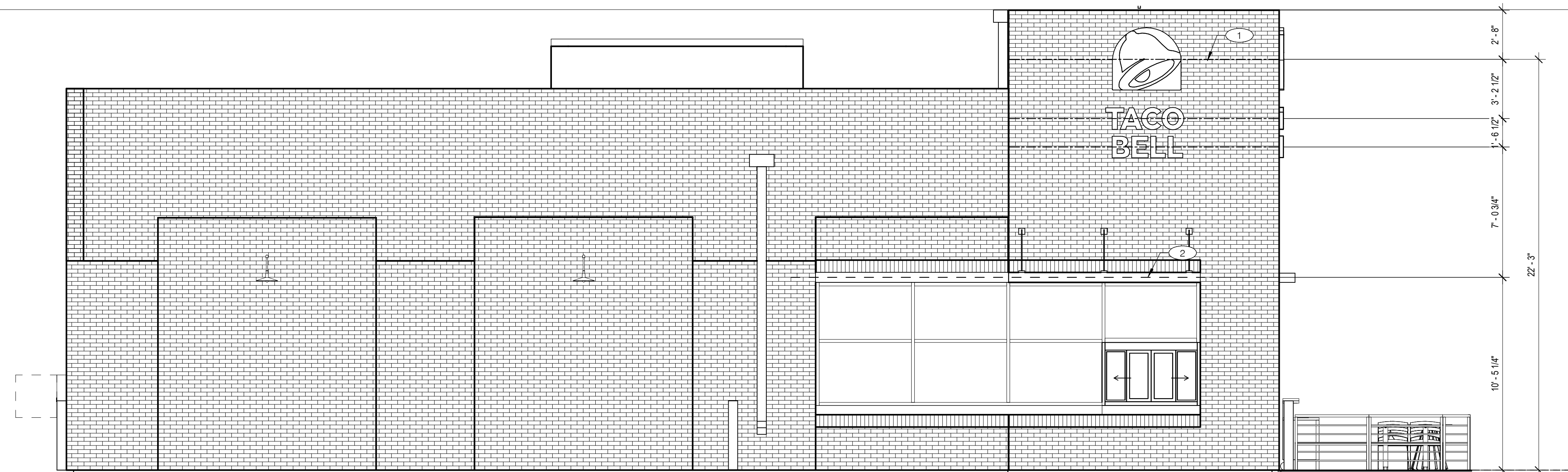
T40
OPEN KITCHEN
MODERN EXPLORER

STRUCTURAL SECTIONS

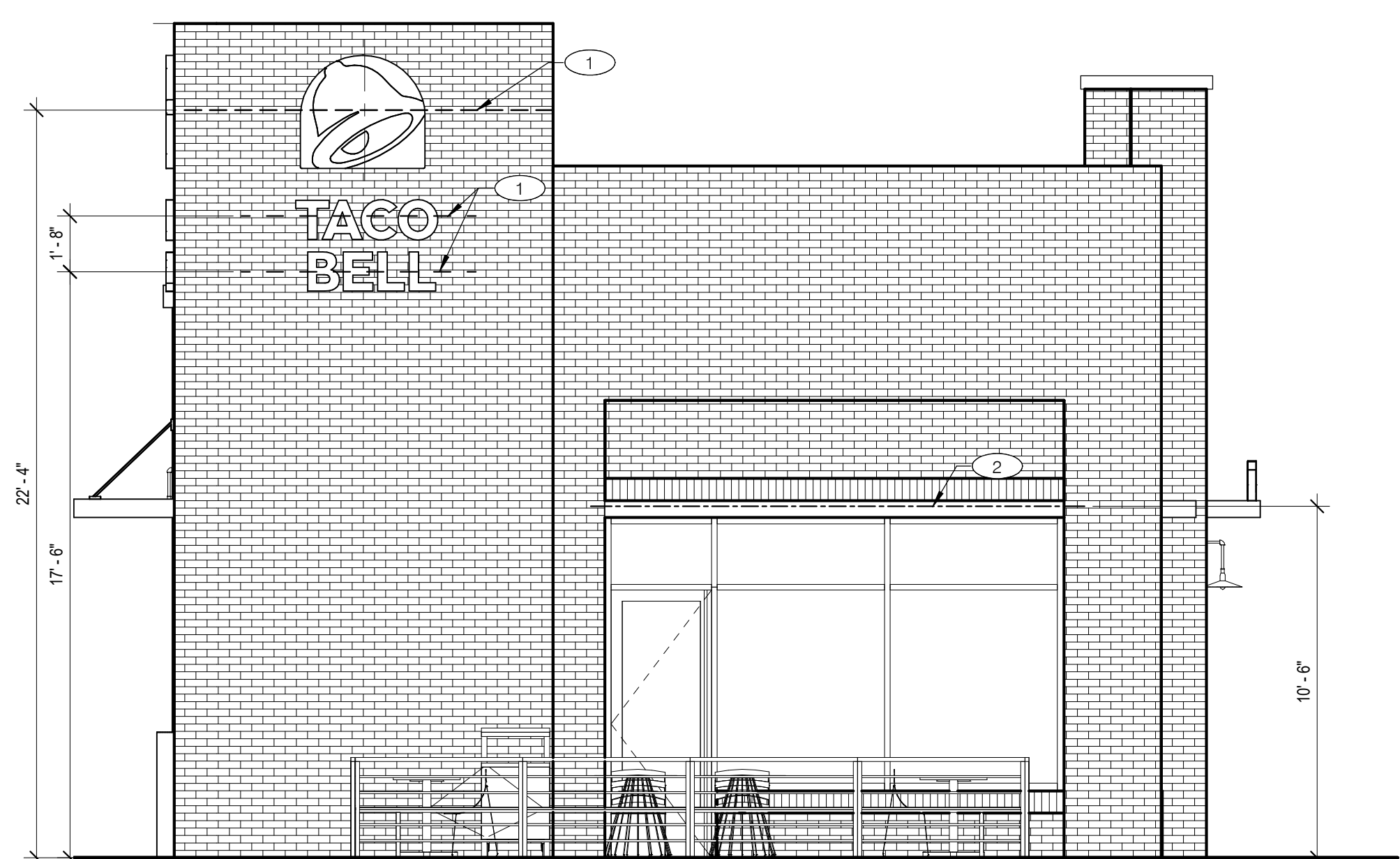
S4.5



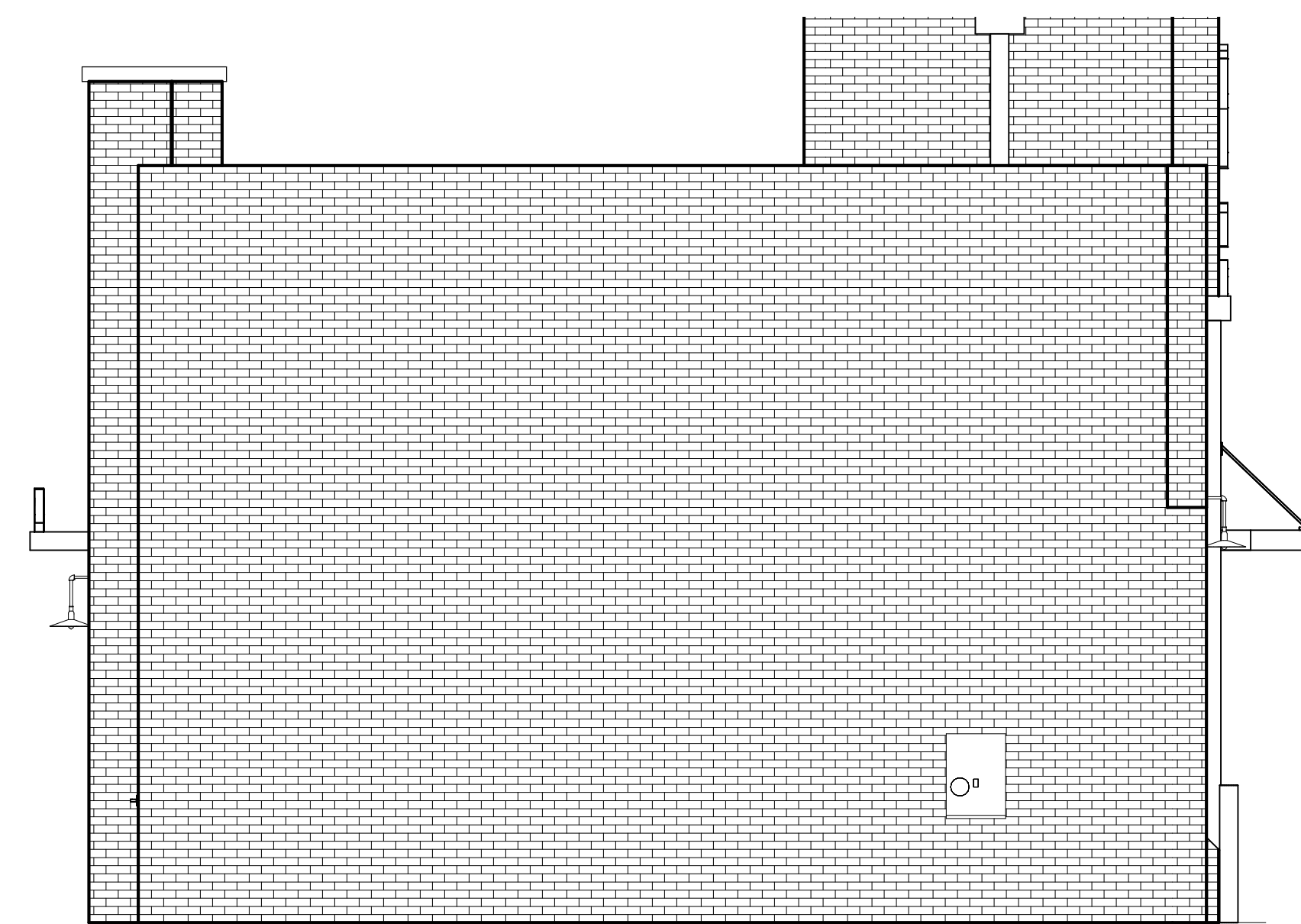
RIGHT SIDE ELEVATION 1/4" = 1'-0" **A**



LEFT SIDE ELEVATION 1/4" = 1'-0" **B**



FRONT ELEVATION 1/4" = 1'-0" **F**



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

- 1 SOLID BLOCKING FOR FASTENERS AS REQUIRED FOR SIGN MOUNTING.
- 2 PROVIDE BLOCKING FOR CANOPY TIE BACK. SEE DETAIL 3/S4.3

KEY NOTES **C**

1. EXTEND BLOCKING AS REQUIRED TO FIT BETWEEN STUDS.
2. ELEVATION AT BOTTOM OF CANOPIES SHALL BE 10'-2" 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 AWNINGS & CANOPIES. ADDITIONAL BLOCKING IS REQUIRED FOR OTHER ITEMS AS SHOWN ON OTHER DRAWINGS.
5. COORDINATE ALL LOCATIONS AND ELEVATIONS WITH THE ARCHITECTURAL DWGS.

GENERAL NOTES **D**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

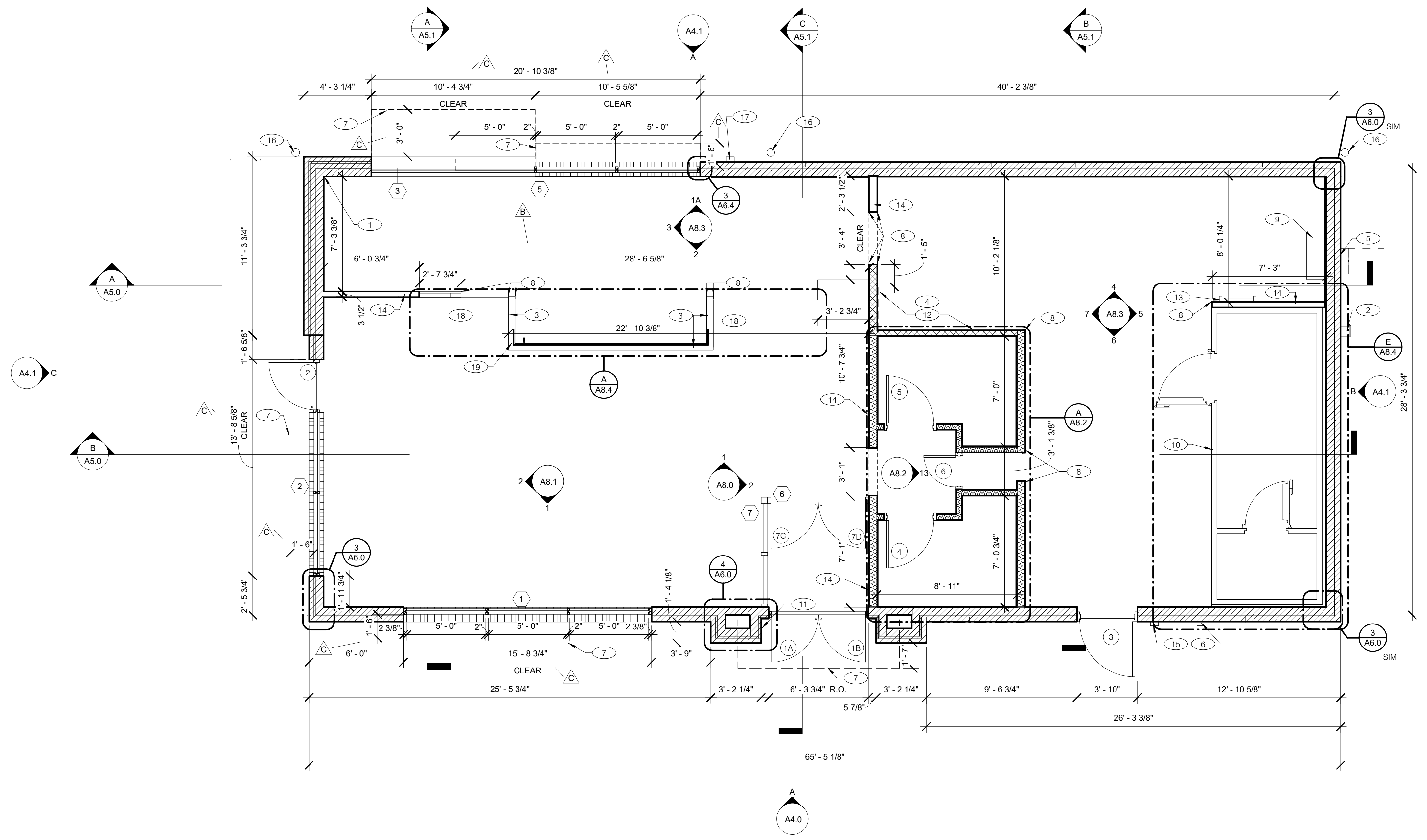
TACO BELL
NORTHLINE ROAD
SOUTHGATE, MI 48195



CANOPY/AWNING BLOCKING ELEVATIONS

\$5.0

PLOT DATE: 8/7/2018 9:17:32 AM



FLOOR PLAN 1/4" = 1'-0" **A**

08.06.18	ISSUED FOR CONSTRUCTION
06.28.18	CANOPY
06.20.18	ISSUED FOR BID
06.07.18	CLIENT COMMENTS
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
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TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

FLOOR PLAN

A1.0

PLOT DATE: 8/7/2018 3:43:23 PM

WALL LEGEND

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 BLUESKIN VP SELF ADHERED AIR BARRIER

TYPICAL INTERIOR WALL:
2x4 WD STUDS AT 16" O.C. (2x6 OR 2x8 WHERE NOTED) INTERIOR WALLS AND GYP. BD. SEPARATING DINING SPACE WITH OTHER AREAS TO EXTEND TO UNDERSIDE OF TRUSSES U.O.N.

INTERIOR SOUND-RATED WALL:
TYPICAL INTERIOR WALL W/ 3-1/2" UNFACED FIBERGLASS BATT INSULATION.

HOODWALL:
600S162-33 METAL STUD WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. REFER TO DETAIL 1/M3.0 FOR EXTENT OF S.S. PANEL. PROVIDE 3-1/2" UNFACED FIBERGLASS BATT INSULATION.

WALL SUBSTRATES:
- DINING ROOM:
1/2" GYPSUM WALLBOARD TO 6" ABOVE CEILING OR TO UNDERSIDE OF DECK WHERE EXPOSED SEE 8 & 15 / A6.5. (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 WITH 1/2" CDX PLYWOOD W/FRP SURFACE FINISH TO 6" ABOVE CEILING HEIGHT U.O.N. IF DOUBLE SIDED SHEAR WALL PLYWD IS SPECIFIED THE PLYWOOD SHALL BE CONTINUOUS FROM SILL PLATE TO TOP PLATE. SEE 4 & 11 / A6.5.
- RESTROOM WALLS:
5/8" CEMENT WALLBOARD FROM T.O. SLAB TO 48" A.F.F. WITH 5/8" HI-IMPACT BRAND XP WALLBOARD, MOISTURE RESISTANT GYPSUM WALLBOARD FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N.. NO SUBSTITUTIONS ALLOWED. FINISH AS SCHEDULED. SEE 12 / A6.5.
- ALL OTHER FRAME WALL CONDITIONS:
1/2" CEMENT WALLBOARD FROM T.O. SLAB 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 SCHEDULED.

FLOOR PLAN NOTES

DIMENSIONS:
A. ALL DIMENSIONS ARE TO FACE OF STUD U.O.N. REFER TO FOUNDATION PLAN FOR FACE OF CONC. DIMENSIONS.
B. DIMENSIONS NOTED AS 'CLEAR' OR 'HOLD' ARE MIN. RECD. NET CLEARANCE FROM FACE OF WALL / WAINGSCOT FINISH. VERIFY FINAL EQUIPMENT SIZES W/ VENDOR PRIOR TO INT. WALL FRAMING.

WINDOWS / DOORS:
A. SEE SHT. 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 CEMENTITIOUS BD. FROM FLOOR SLAB TO 48" 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.

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.
B. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON NON-BEARING INTERIOR PARTITIONS, BULKHEADS AND SOFFITS IS ACCEPTABLE. MAINTAIN DIMENSIONS

- 1 STARTING POINT. ALL SUB-TRADES SHALL USE THIS POINT AS A BEGINNING LAY-OUT (INSIDE FACE OF EXT. WALL STUDS).
- 2 GAS SERVICE.
- 3 LOW WALL BY G.C., SEE DETAILS ON A8.3. COORDINATE WITH STRUCTURAL DRAWINGS.
- 4 HOOD WALL. SEE EQUIPMENT PLAN A2.0 AND SCHEDULE A2.1
- 5 ELECTRICAL MAIN SWITCH BOARD. REFER TO ELECT. DWGS.
- 6 CO2 FILL BOX LOCATION. SEE DETAIL 5/A6.1
- 7 LINE OF AWNING ABOVE (BY SIGNAGE VENDOR)
- 8 S.S. CORNER GUARD / WALL CAP. TYP. ALL CORNERS IN BACK-OF-HOUSE FROM REAR WALL TO THE KITCHEN SIDE OF THE SERVICE COUNTER. SEE DETAIL 13&14/A6.5
- 9 SWITCHGEAR / ELECTRIC PANELS. SEE ELECTRICAL DRAWINGS.
- 10 PRE-ENGINEERED MODULAR PANEL WALK-IN BOX (COOLER AND FREEZER). SITE ASSEMBLED. SEE EQUIPMENT PLAN A2.0
- 11 KNOX BOX ON SIDE WALL @ 5'-0" A.F.F.
- 12 NON-COMBUSTIBLE METAL STUD CONSTRUCTION WITH TYPE 'X' GYP BOARD BEHIND HOOD. EXTEND MIN. 18" PAST HOOD ON EACH SIDE
- 13 ROOF LADDER. SEE DETAIL E/8.3
- 14 FULL HEIGHT WALL TO EXTEND TO BOTTOM OF THE ROOF DECK
- 15 HOSE BIB BOX AT 18" A.F.F. SEE DETAIL 7/A6.1
- 16 PIPE BOLLARD, SEE CIVIL DRAWINGS
- 17 4"x6" ALUMINUM DOWN SPOUT
- 18 POS COUNTER / V-LINE HALF-WALL AND HAND-OFF PLANE BY GC
- 19 ROUTE 1 1/2" CONDUIT IN LOW WALL FROM CHEESE MELTER LOCATION TO CUSTOMER DRINK STATION FOR FILTERED WATER CONNECTION.

PLAN KEYNOTES N.T.S. **B**

- DIMENSIONS ON THIS DWG. ARE TO FRAME EDGE. REFER TO SHEETS A1.0 AND A5.0-AS 3 SHEETS FOR ROUGH OPENING DIMENSIONS.
- ALL STOREFRONT AND DRIVE-THRU WINDOW FRAMES SHALL BE DARK BRONZE. DRIVE THRU WINDOW <B-140> SHALL BE DARK BRONZE.
- ALL STOREFRONT GLAZING TO BE THERMALLY BROKEN.
- SEE SCHEDULE FOR GLASS TYPES.
- REFER TO FLOOR PLAN, ELEVATIONS AND WALL SECTIONS FOR ROUGH OPENING DIMENSIONS.
- ALL STOREFRONT MATERIAL AND GLAZING SHALL BE SUPPLIED AND INSTALLED BY G.C. U.O.N.
- ALL TEMPERED GLAZING SHALL BE IDENTIFIED BY A LABEL SPECIFYING THE LABELER, WHETHER THE MANUFACTURER OR INSTALLER AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES. THE LABEL SHALL BE ACID ETCHED, SAND BLASTED, CERAMIC FIRED, OR AN EMBOSSED MARK, WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED.

- LAMINATE DOORS 4, 5, & 6 AND PAINT FRAMES 4, 5, & 6. SEE FINISH SCHEDULE, SHEET A7.2.
- ALL HARDWARE SHALL BE US32D U.O.N.
- ALL HM FRAMES SHALL BE 16 GA STEEL U.O.N.
- 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 KEYPED ALIKE. PERMANENT CORES SHALL BE SHIPPED TO THE RESTAURANT GENERAL MANAGER.
- MOUNT DOOR CLOSERS ON RESTROOM OR KITCHEN SIDE ONLY. COMPLETE DOOR, FRAME AND HARDWARE PACKAGE INCLUDING: VISION PANEL (WITH 18 GA. HOLLOW METAL FRAME), CONTINUOUS HINGE, HEAVY DUTY CLOSER, RAIN DRIP, DOOR BOTTOM/ SWEEP, WEATHERSTRIP, KICKPLATE AND PANIC HARDWARE. PROVIDED BY RSCS FACILITIES CONNECTIONS.
- 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.
- MOUNT KICKPLATE ON PUSH SIDE ONLY.
- MAXIMUM DOOR OPERATING PRESSURE : 5 LBS INTERIOR : 15 LBS EXTERIOR.
- ADA COMPLIANT ACCESSIBILITY SIGNAGE WHERE REQUIRED (OR AS REQUIRED BY LOCAL JURISDICTION) - (1) MEN; (1) WOMEN; (3) EXIT
- INSTALL WITH REMOVABLE DOOR STOPS AND WEATHER STRIPS.
- PROVIDE LATCH AND STRIKE PLATE HARDWARE BY DOOR MFR. TO BE COMPATIBLE WITH LOCKS.
- PROVIDE MANUFACTURER'S INTEGRAL ASTRAGAL GC TO TRIM DOOR SWEEP TO FIT DOOR

NATIONAL ACCOUNT SUPPLIER

INTERIOR DOORS, FRAMES & HARDWARE

LOCKNET
CONSTRUCTION@LOCKNET.COM
800 JOHN C WATTS DRIVE
NICHOLASVILLE, KY 40356
800-887-4307 FAX: 859-887-4958

GLASS SCHEDULE

- | | |
|---------------------------------|--|
| (A) 1" INSULATED GLASS | (D) SAFETY GLASS BY MFR. |
| (B) 1" INSULATED TEMPERED GLASS | (E) 1" TINTED GLASS - 3M WINDOW FILM PRESTIGE PR70 |
| (C) 1/4" TEMPERED GLASS | |

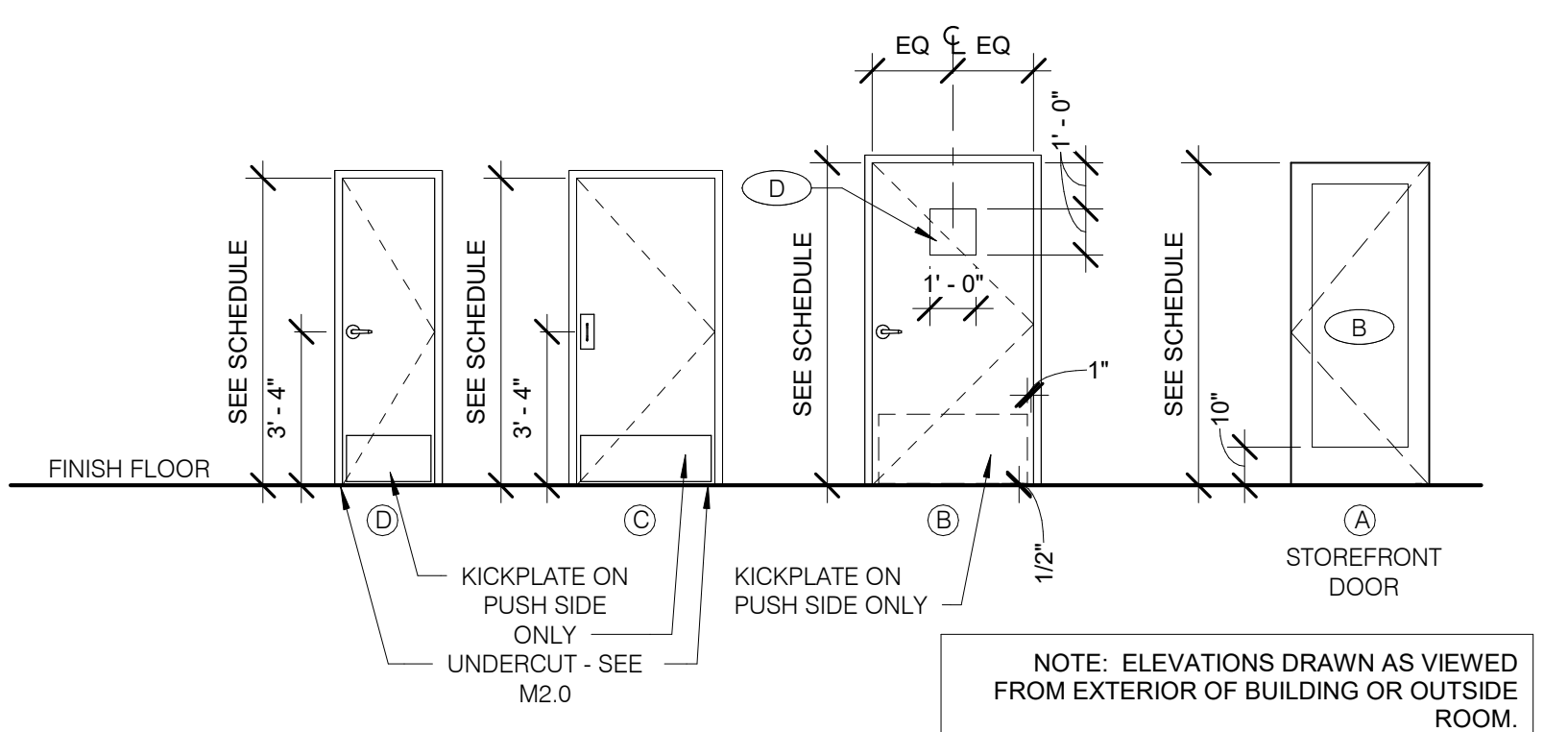
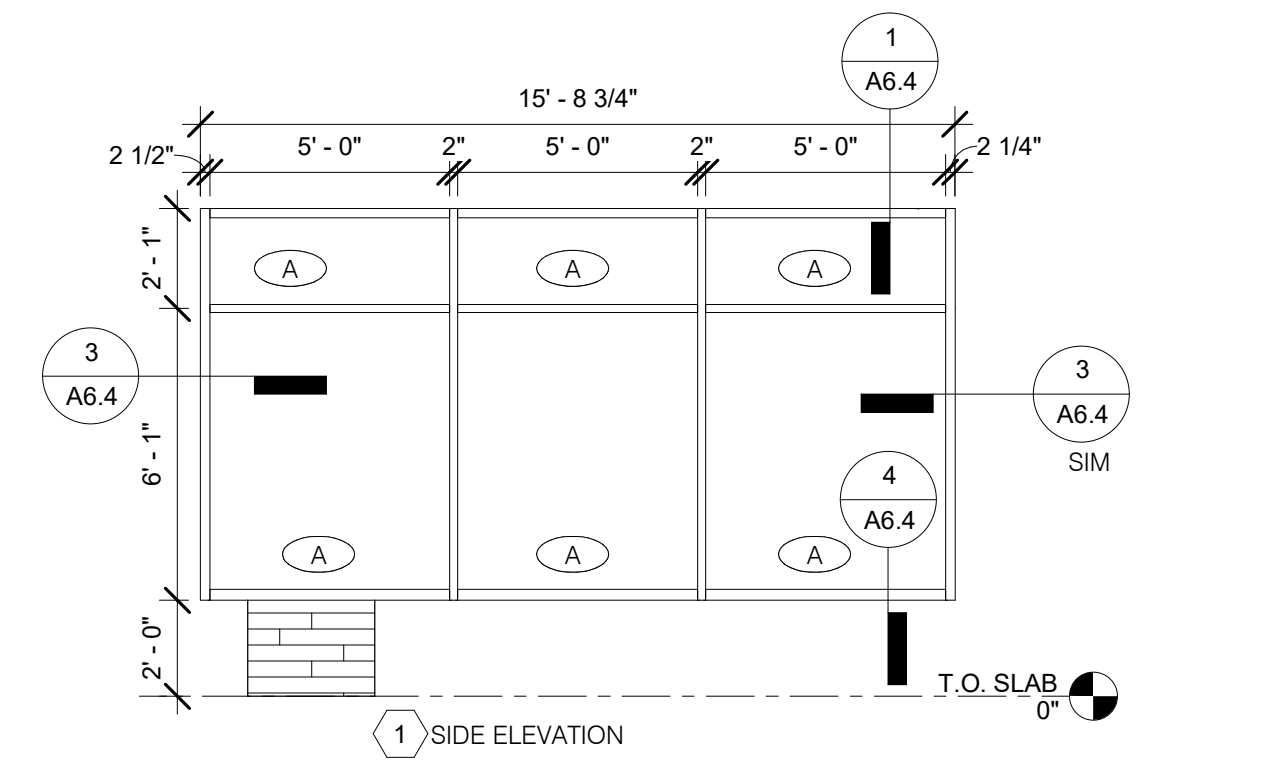
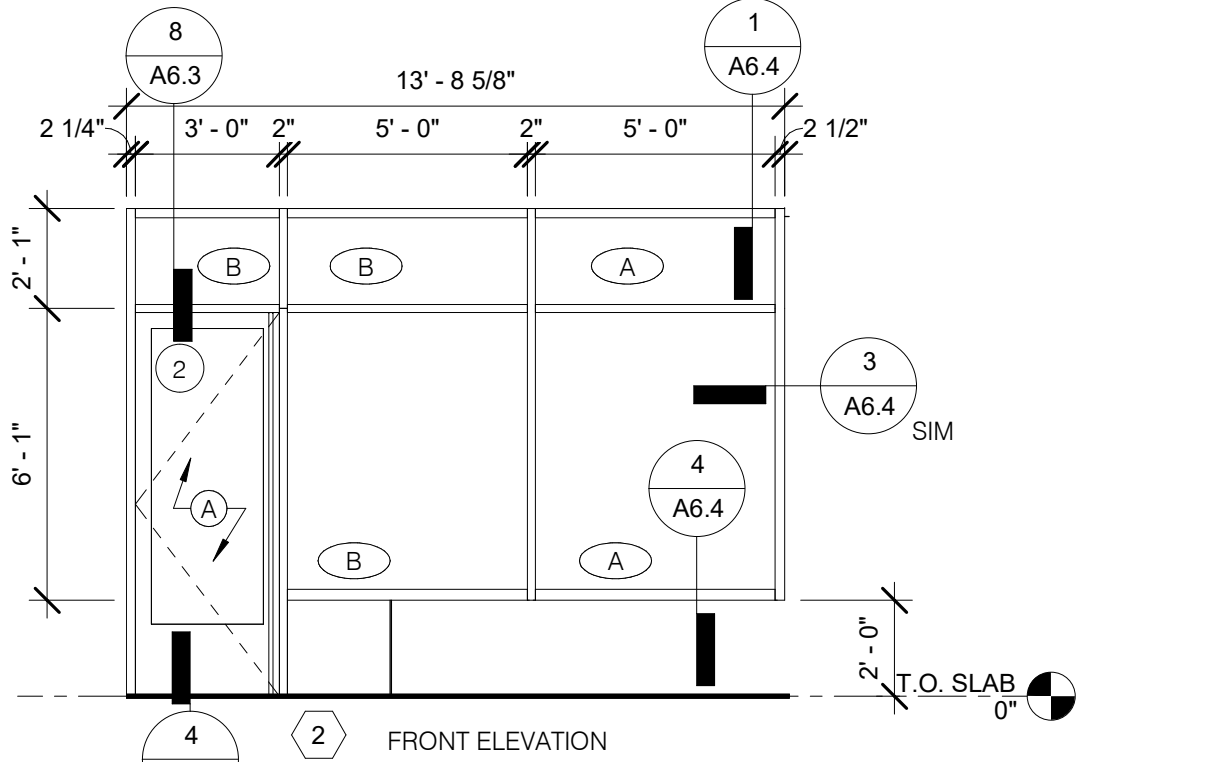
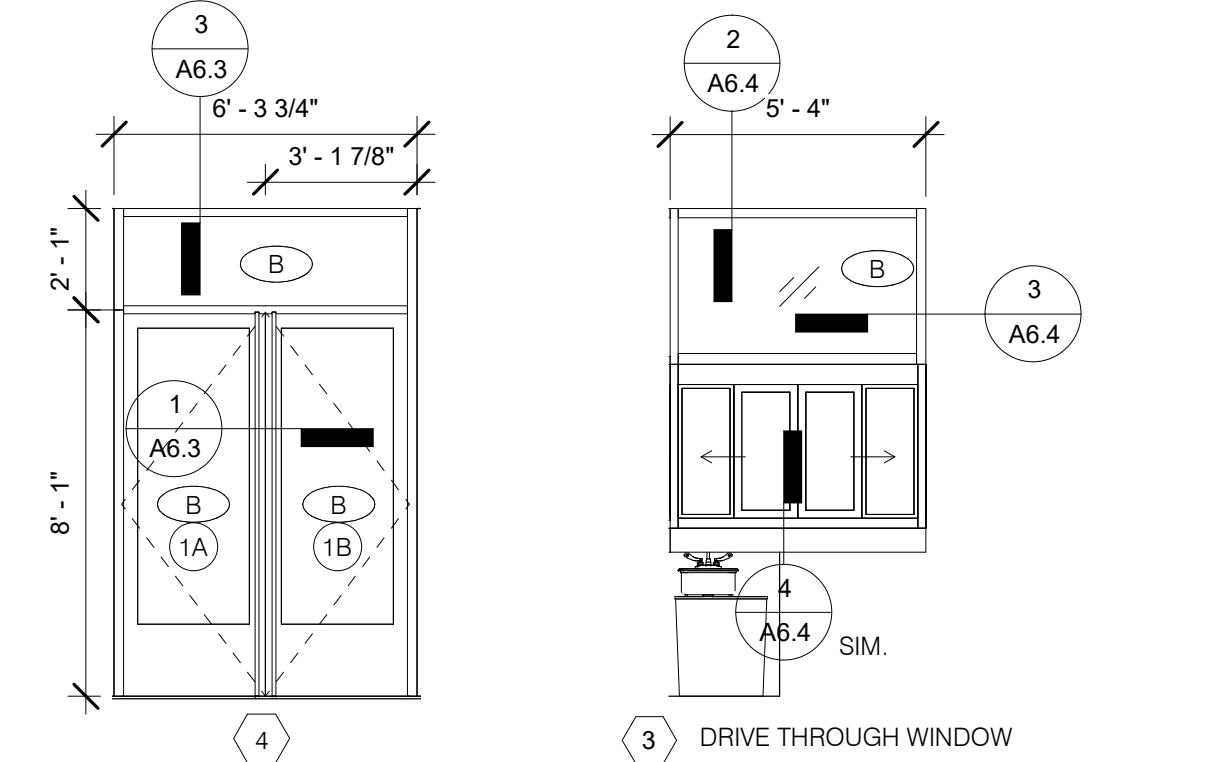
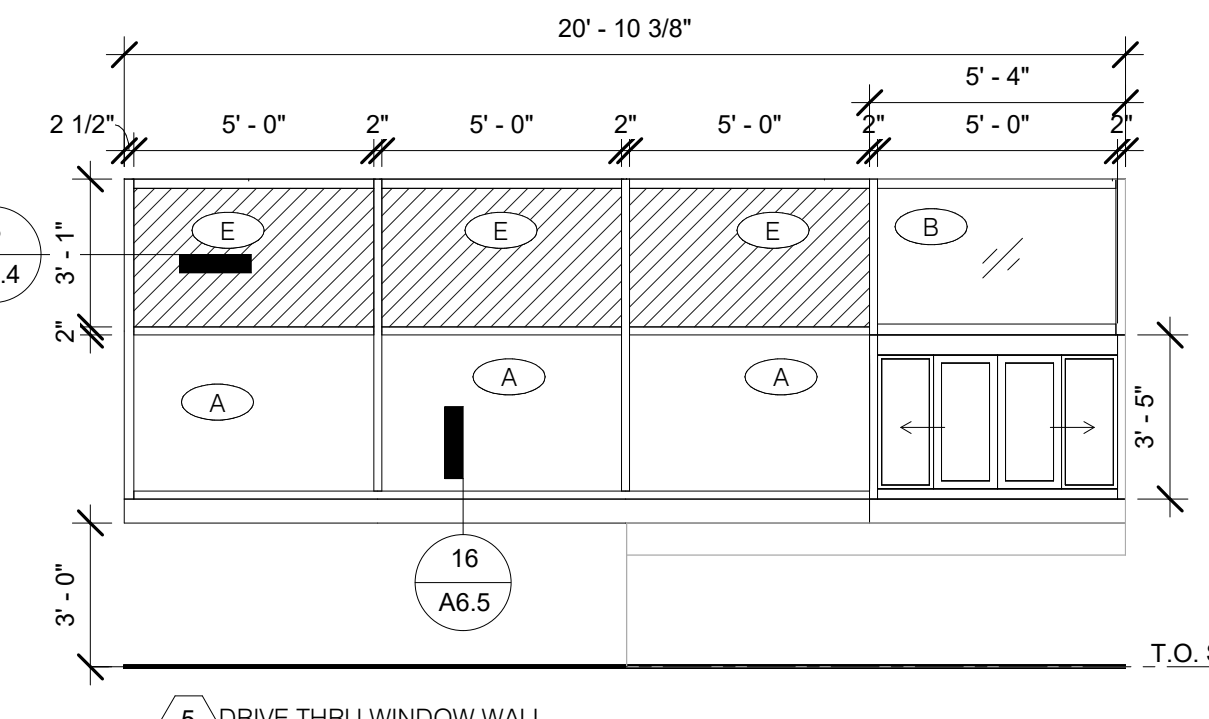
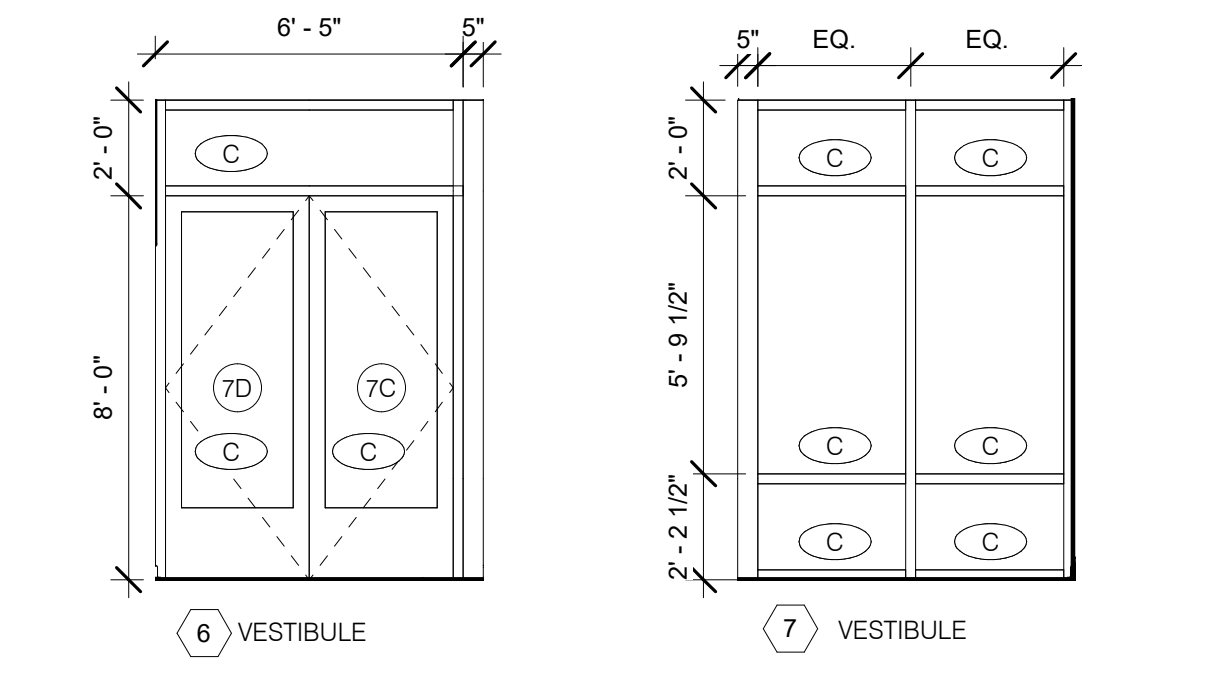
NOTE: SHADING COEFFICIENT SPECIFICATION PER LOCAL CODE REQUIREMENTS. DAYTIME VISIBILITY INTO DINING ROOM SHALL BE MAINTAINED.



**** ALL STOREFRONT GLAZING SHALL BE LOW 'E' SOLAR GLASS ****

DOOR SCHEDULE NOTES N.T.S. **1**

DOOR NO.	NAME	WIDTH	HEIGHT	THICKNESS	TYPE	DOOR	FRAME	BUTTS	LOCKS	CLOSERS	KICKPLATE	THRESHOLD	DOOR STOP	MISCELLANEOUS			DETAIL LOCATIONS			DOOR NOTES											
														CL	SWEEP	UNDERCUT	HEAD	JAMB	SILL												
1A	ENTRY	3'-0"	8'-0"	1 3/4"	A	AL	AL	X						X	X															DOOR AND FRAME - DARK BRONZE FINISH - 4, 5, 7, 8, 10, 13, 14, 15	
1B	ENTRY	3'-0"	8'-0"	1 3/4"	A	AL	AL	X						X	X															DOOR AND FRAME - DARK BRONZE FINISH - 4, 5, 8, 10, 13, 14, 15	
2	DINING	3'-0"	8'-0"	1 3/4"	A	AL								X	X															DOOR AND FRAME - DARK BRONZE FINISH - 4, 5, 7, 8, 10, 13, 15	
3	BOH	3'-6"	7'-0"	1 3/4"	B	HM	HM																								
4	MENS RESTROOM	3'-0"	6'-8"	1 3/4"	C	WD	HM	X						X	X																DL-1 LAMINATE FINISH - 1, 2, 3, 4, 6, 9, 10, 11
5	WOMENS RESTROOM	3'-0"	6'-8"	1 3/4"	C	WD	HM	X						X	X																DL-1 LAMINATE FINISH - 1, 2, 3, 4, 6, 9, 10, 11
6	CLOSET	2'-0"	6'-8"	1 3/4"	D	WD	HM	X																							DL-1 LAMINATE FINISH - 1, 2, 3, 10
7C	VESTIBULE	3'-0"	8'-0"	1 3/4"	A	AL		X																							DOOR AND FRAME - DARK BRONZE FINISH - 4, 5, 7, 8, 10, 13, 15
7D	VESTIBULE	3'-0"	8'-0"	1 3/4"	A	AL		X																							DOOR AND FRAME - DARK BRONZE FINISH - 4, 5, 7, 8, 10, 13, 15



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06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
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PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

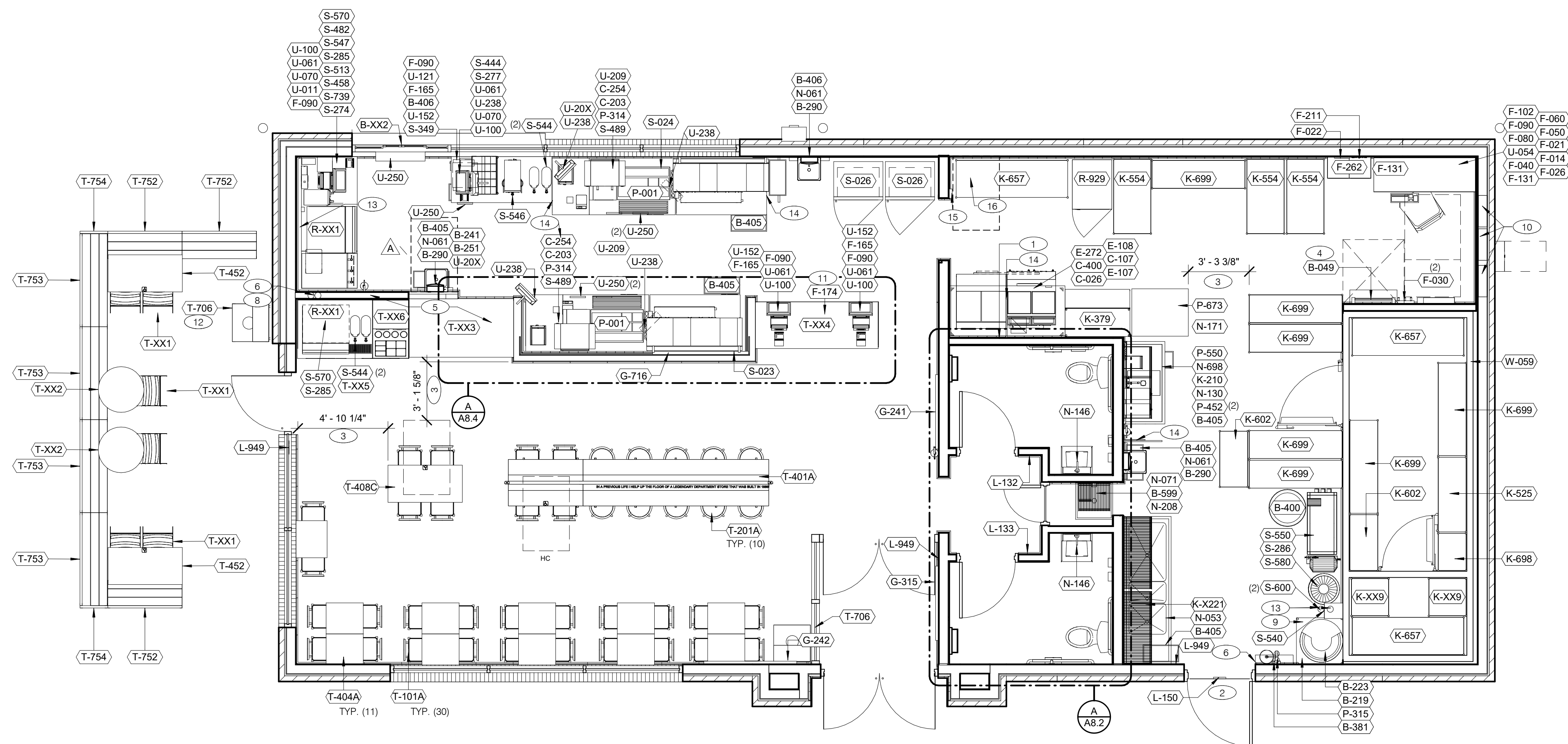
DOOR AND WINDOW ELEVATIONS & SCHEDULES

A1.1

PLOT DATE: 8/7/2018 3:43:26 PM

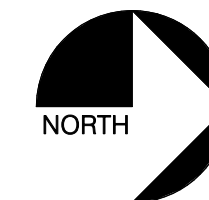
WINDOW TYPES 1/4" = 1'-0" **5**

DOOR TYPES **3**



08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
06.07.18	CLIENT COMMENTS
05.24.18	HEALTH COMMENTS
04.16.18	ISSUED FOR PERMIT

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EQUIPMENT/ SEATING PLAN 1/4" = 1'-0" **A**

SYM.	QTY.	ITEM
T-101A	30	CHAIR - WOOD SEAT/ METAL BACK
T-201A	10	29" BARREL BARSTOOL
T-401A	1	HUB TABLE VENEER (WHITE INLAY)
T-404A	11	24" X 20" TABLE TOP AND ROUND BASE
T-408C	1	24" X 48" TABLE TOP AND DOUBLE BASE - ADA (CENTER)
T-706	1	SINGLE TRASH ENCLOSURE
T-XX3	1	55" HAND OFF PLANE
T-XX4	1	POS COUNTER BY IDX
T-XX5	1	SAUCE AND SODA TABLE BY IDX
T-XX6	1	CONDIMENT CONSOLE

FURNITURE PACKAGE E

EQ#	COUNT	DESCRIPTION	ORDERING NO.
G-241	1	MASH UP	G-241-X-01-28X40
G-242	1	MASH UP	G-242-X-01-28X40
G-315	1	TACO TYPOGRAPHY 54"	G-315-X-00-12X54
G-716	1	V-LINE ARTWORK - CRUNCH WRAP	G-716-1-N/A-62.375X39.5

SQUARE FOOTAGES:

FOH	732 SF
BOH	937 SF
TOTAL	1,669 SF

SEATING:

INTERIOR	40
*EXTERIOR	12
*TOTAL	52

* SEATING COUNTS MAY VARY DEPENDING ON THE PATIO OPTION SELECTED.

SHELVING QUANTITIES

STORAGE TYPE	REQUIRED	PROVIDED
DRY	46 LF	46 LF
COLD	25 LF	25 LF
FROZEN	10 LF	10 LF

- ① HOOD FIRE SUPPRESSION SYSTEM (ANSUL R-102 OR EQUAL)
- ② SEE SHEET A1.1 FOR SECURITY DOOR PACKAGE
- ③ MAINTAIN 36" MIN CLEAR AISLE EGRESS PATHS TO EXIT DOORS
- ④ ROOF LADDER
- ⑤ COORDINATE WATER LINE THROUGH LOW COUNTER TO V-LINE
- ⑥ BACKFLOW PREVENTER, SEE PLUMBING DRAWINGS
- ⑦ NOT USED.
- ⑧ COORDINATE LOCATION OF HORIZ PVC SYRUP CHASE THROUGH WALL TO COUNTER
- ⑨ 6" HIGH WATER HEATER PLATFORM
- ⑩ STANDARD SWITCHGEAR / ELECTRIC PANELS
- ⑪ SAFE
- ⑫ GC TO ENSURE EXTERIOR TRASH CAN ENCLOSURES ARE BOLTED TO FLOOR
- ⑬ 6" PVC THRU CEILING FOR SYRUP LINES
- ⑭ SPLASH GUARD (REF. DETAIL 9/A6.5).
- ⑮ ALERT LIGHT BOX FOR 3-COMP POWER SOAK
- ⑯ SHROUD AROUND PIPES UNDER SINK PER TACO BELL

ARTWORK SCHEDULE D

GENERAL INFORMATION N.T.S. **C**

EQUIP SEATING KEYNOTES N.T.S. **B**

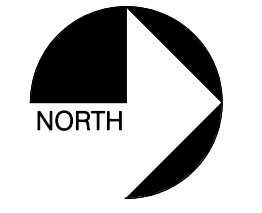
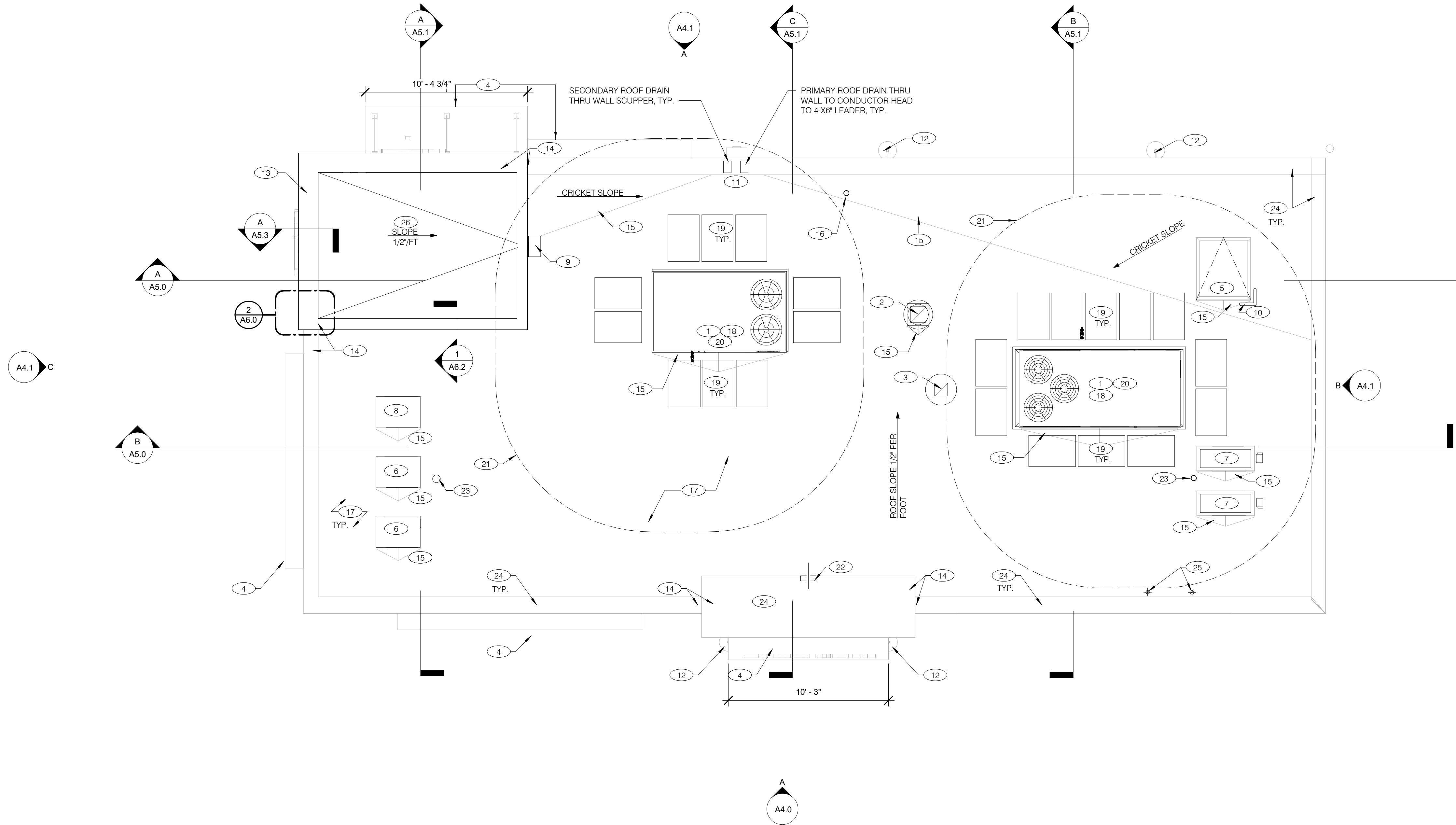
TACO BELL
 19000 NORTHLINE ROAD
 SOUTHGATE, MI 48195



EQUIPMENT/ SEATING PLAN

A2.0

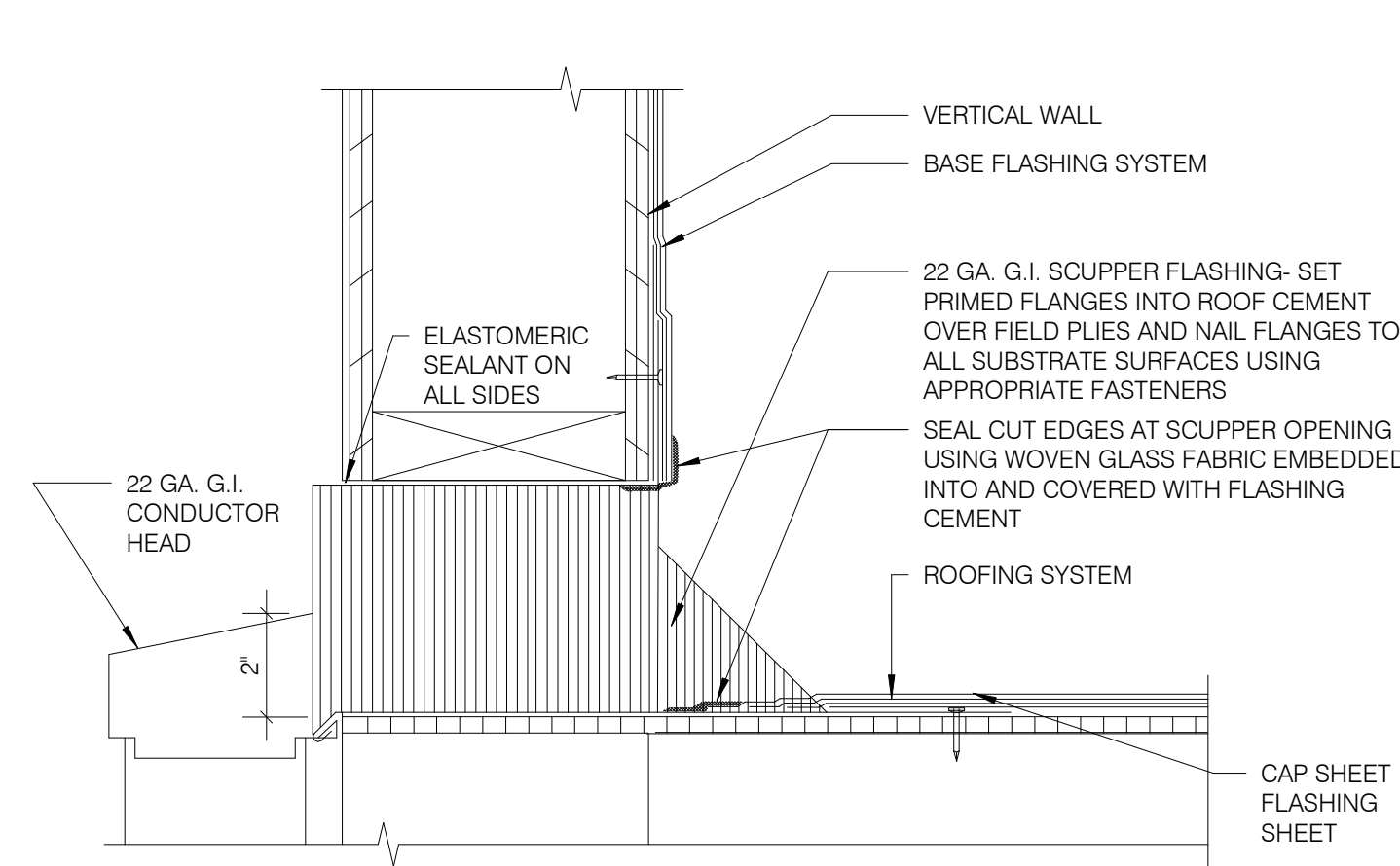
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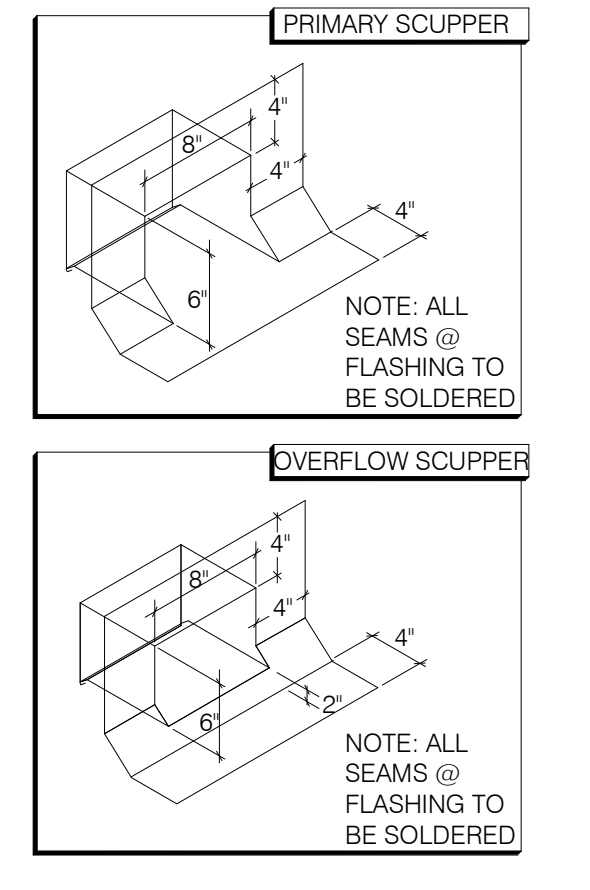
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ROOF PLAN 1/4" = 1'-0" **A**



SCUPPER FLASHING N.T.S. **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 SHEET METAL FLASHING 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**

- 1 ROOFTOP UNIT. INSTALL PLUMB AND LEVEL
- 2 KITCHEN HOOD EXHAUST FAN. SEE SHEETS M3.0 & DETAIL 7/A6.2
- 3 RESTROOM EXHAUST FAN. SEE DETAIL M2.1
- 4 CANOPY BELOW
- 5 ROOF HATCH. SEE DETAIL 4/A6.2
- 6 ICE MACHINE CONDENSERS ON EQUIPMENT PLATFORM, REF. 10/A6.2
- 7 WALK-IN COOLER / FREEZER CONDENSERS. SEE SCOPE OF WORK SHEET
- 8 FROZEN BEVERAGE MACHINE CONDENSER ON EQUIPMENT PLATFORM, REF. 10/A6.2
- 9 THRU-WALL SCUPPER FROM TOWER ROOF TO LOWER ROOF
- 10 ROOF LADDER EXTENSION HANDLE BY MANUFACTURER OF ROOF HATCH
- 11 SCUPPER AND DOWNSPOUT. SEE DETAIL D/A3.0
- 12 EXTERIOR LIGHT FIXTURES
- 13 BRICK TOWER
- 14 CHANGE IN PARAPET ELEVATION SEE DETAIL 2/A6.1
- 15 ROOF CRICKET, SEE DETAIL 11/A6.2
- 16 WASTE VENT THROUGH ROOF. THE TOP OF THE WASTE VENTS SHALL BE 12" HIGHER THAN THE CLOSEST PARAPET CAP U.N.O. OR NOT ALLOWED BY LOCAL JURISDICTION. SEE 5/A6.2 FOR FLASHING ASSEMBLY.
- 17 'DURO-LAST' SINGLE PLY ROOF MEMBRANE OVER R-30 MIN. RIGID INSULATION BOARD ON 5/8" EXTERIOR GRADE PLYWOOD OVER TRUSSES. INSTALL PER MANUFACTURER'S SPECIFICATIONS
- 18 POWER / GAS / CONDENSATE ENTRY UNDER HVAC UNIT (PER HVAC MFR. SPECS.) REFER TO MECH. AND PLUMB DWGS. UTILITY ACCESS FROM WITHIN CURB - NO ROOF PENETRATIONS. DO NOT RUN ON ROOF SURFACE. SEE PLUMBING DRAWINGS.
- 19 24X36 WALK MATS. SEE ROOF SPECS.
- 20 MAINTAIN MANUFACTURER'S ROOFTOP MAINTAINANCE CLEARANCES
- 21 OUTSIDE AIR INTAKE FOR ROOFTOP UNIT. MAINTAIN MIN 10'-0" SEPARATION FROM PLUMBING VENTS, FLUES, AND BUILDING EXHAUST
- 22 12" X 12" WHITE ALUMINUM LOUVER STYLE GABLE VENT WITH FIBERGLASS INSECT SCREEN, MOUNT HIGH
- 23 PIPE HOOD, SEE DETAIL 6/A6.2
- 24 FACTORY PAINTED METAL PARAPET CAP. SEE DETAIL 3/A6.2. GC TO ENSURE PARAPET CAP IS WEATHER PROTECTED
- 25 WATER HEATER EXHAUST/INTAKE COMBO. SEE DETAIL 8/A6.2 FOR BRACING. MAINTAIN MIN. 10'-0" FROM NEAREST POINT OF RTU INTAKE
- 26 COORDINATE ROOF CRICKETS AND DRAINAGE WITH SCUPPER AND DRAIN TO MAIN ROOF

ROOF PLAN KEY NOTES N.T.S. **B**

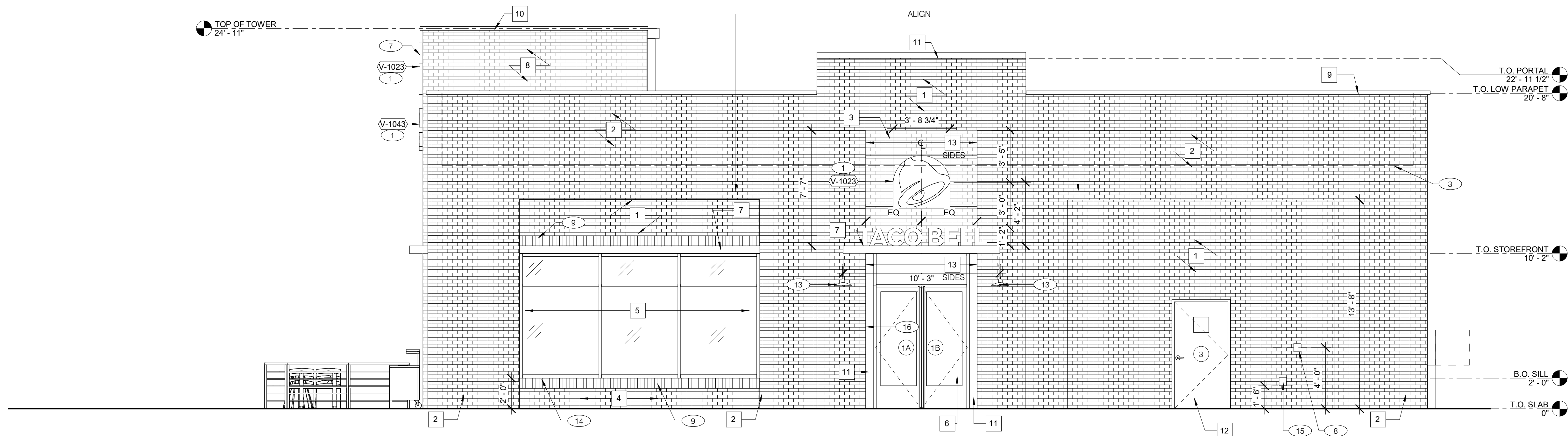
TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

ROOF PLAN

A3.0

PLOT DATE: 8/7/2018 3:43:34 PM



EAST ELEVATION 1/4" = 1'-0" **A**

NO.	QTY	ITEM DESCRIPTION
V-1023	3	SWINGING BELL - PURPLR LOGO - FACE LIT - 3' 6" X 3' 10"
V-1043	3	TB 14' CHANNEL LETTER WHITE - (2) STACKED (1) LINEAR

MISCELLANEOUS:
A. SEE SHT 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 AT HEAD AND JAMB. DO NOT SEAL SILL @ WINDOWS.
C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING & 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.

SIGNAGE N.T.S. **E**

GENERAL NOTES N.T.S. **C**

- 1 BUILDING SIGN, BY SIGN VENDOR. REQUIRES ELECTRICAL. SEE ELECTRICAL PLANS
- 2 DRIVE THRU WINDOW. SEE SHEET A1.0 AND A1.1.
- 3 DASHED LINE INDICATES ROOF LINE BEYOND.
- 4 4' DIA. BOLLARD. SEE CIVIL DRAWINGS.
- 5 GAS METER
- 6 NOT USED
- 7 INTEGRAL SIGNAGE BY SIGN VENDOR. GC TO COORDINATE BLOCKING LOCATIONS.
- 8 CO2 FILLER VALVE & COVER. SEE DETAIL 5/A6.1
- 9 SOLDIER BRICK IN MIDNIGHT
- 10 SOLDIER BRICK IN COPPERSTONE
- 11 CONCRETE CURB.
- 12 SCUPPER, COLLECTOR, AND VERTICAL DOWNSPOUT 6" MIN. PAINT TO MATCH 1
- 13 EXTERIOR LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS
- 14 FLASHING AT STOREFRONT PER G.C. TO MATCH STOREFRONT FINISH. SEE 8/A6.4
- 15 HOSE BIB BOX AT 18" A.F.F. SEE DETAIL 7/A6.1
- 16 KNOX BOX. FINAL LOCATION TO BE APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION
- 17 BRICK COLOR TRANSITION LINE
- 18 ELECTRICAL METER

SYMBOL	AREA	MANUFACTURER	MATERIAL SPEC	COLOR	ALTERNATE MFR.	ALTERNATE MATERIAL SPEC.	ALTERNATE MATERIAL COLOR	CONTACT INFORMATION
1	ENTRANCE TOWER BRICK & OVER WINDOW	INTERSTATE BRICK	2-1/4" MODULAR BRICK	MIDNIGHT BLACK	-	-	-	NICHHA: MATT STEPHENSON 770-789-8228 MSTEPHENSON@NICHHA.COM
2	MAIN BUILDING BRICK	INTERSTATE BRICK	2-1/4" MODULAR BRICK	CUSTOM BLEND (RANDOM INSTALL) 70% PEWTER - 30% PLATINUM	-	-	-	
3	TOWER & UPPER ENTRANCE	INTERSTATE BRICK	2-1/4" MODULAR BRICK	COPPERSTONE	-	-	-	BY SIGN VENDOR
4	BELOW WINDOW	INTERSTATE BRICK	2-1/4" MODULAR BRICK	MIDNIGHT BLACK	-	-	-	
5	STOREFRONT WINDOWS	OLD CASTLE	BRICK SERIES 3000 - CENTER SET	DK BRONZE	-	-	-	
6	STOREFRONT DOORS	OLD CASTLE	BRICK SERIES 500 - WIDE STILE	DK BRONZE	-	-	-	
7	METAL CANOPIES	BY SIGNAGE VENDOR	-	DARK BRONZE TO MATCH STOREFRONT	-	RAL	RAL	
8	UPPER BACK TOWER	INTERSTATE BRICK	THIN BRICK	COPPERSTONE	-	-	-	
9	EXTERIOR METAL TRIM - BUILDING	AEP SPAN	VINTAGE	VINTAGE	-	-	-	
10	EXTERIOR METAL TRIM - TOWER	AEP SPAN	TBD	TBD	-	-	-	
11	EXTERIOR METAL TRIM - ENTRY	AEP SPAN	TBD	DARK BRONZE TO MATCH STOREFRONT	-	-	-	
12	EXTERIOR HOLLOW METAL SERVICE DOOR	-	-	SW7048 URBANE BRONZE	-	-	-	
13	LOCAL RECLAIMED WOOD	BY GC	BARNWOOD	AS-IS / GRAY	-	-	-	

EXTERIOR FINISH SCHEDULE N.T.S. **D**

ELEVATION KEYNOTES N.T.S. **B**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195

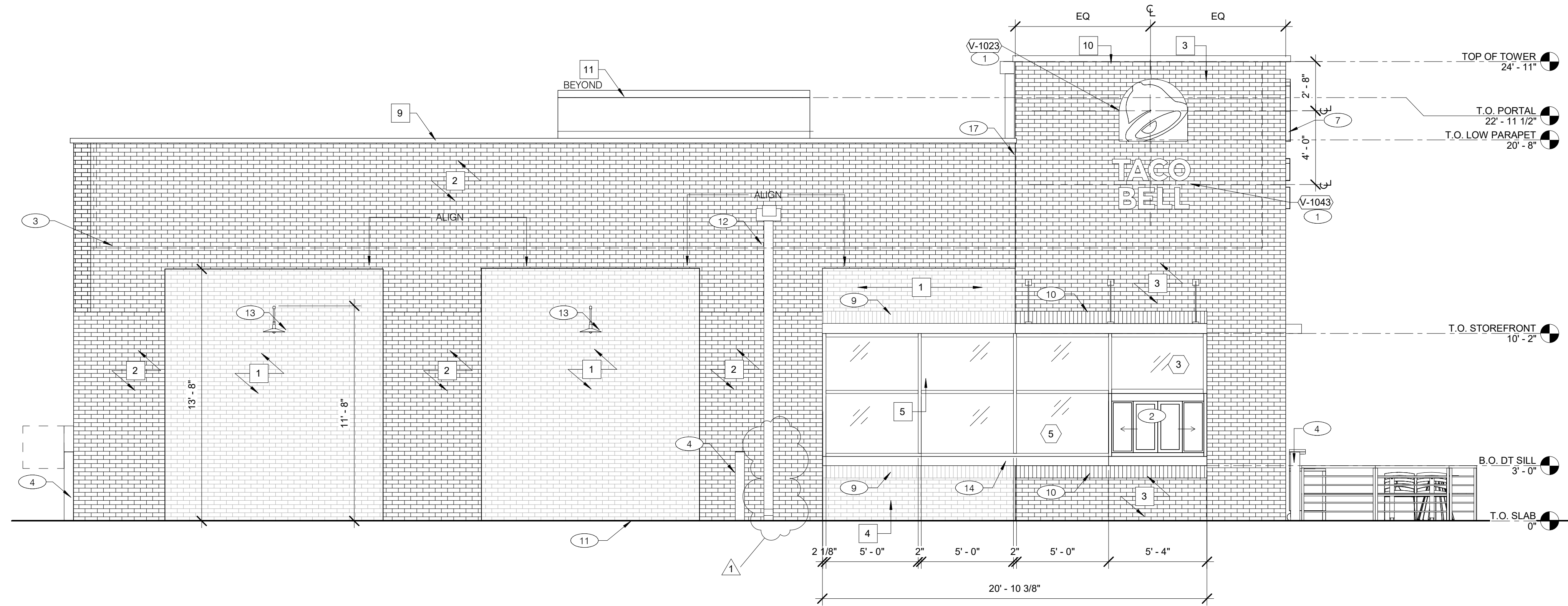


T40
OPEN KITCHEN
MODERN EXPLORER

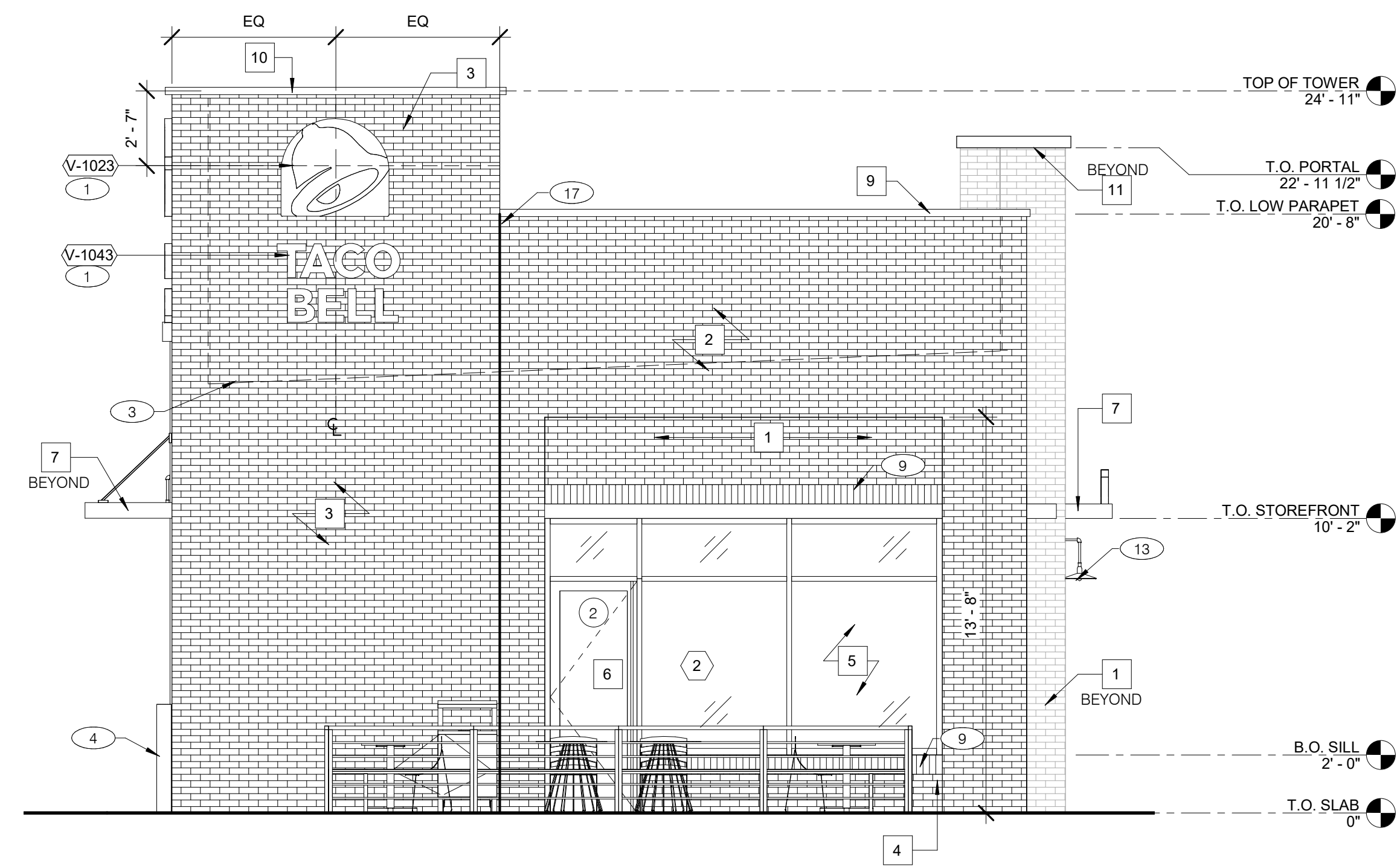
EXTERIOR ELEVATIONS

A4.0

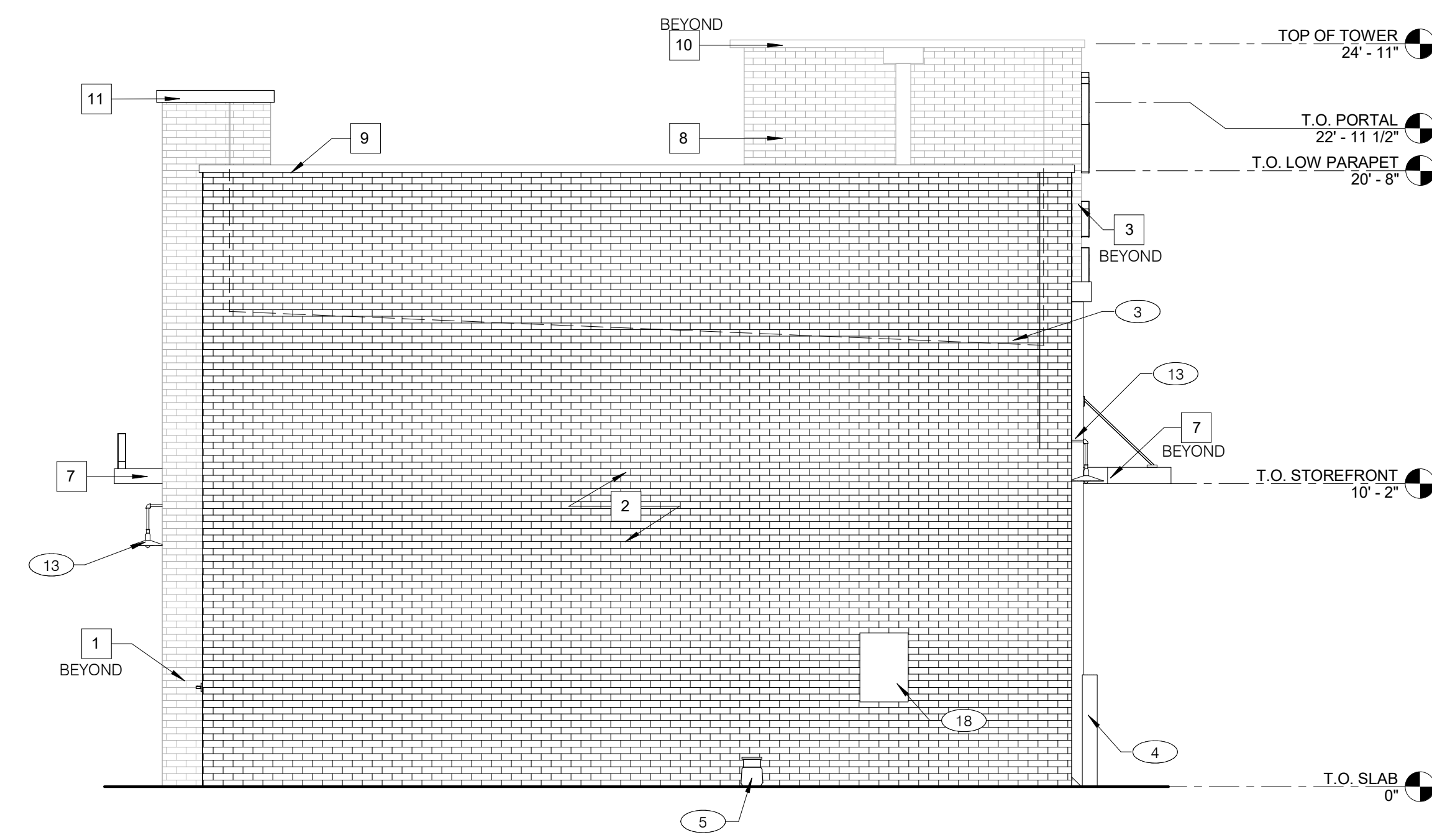
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WEST ELEVATION 1/4" = 1'-0" **A**



SOUTH ELEVATION 1/4" = 1'-0" **C**



NORTH ELEVATION 1/4" = 1'-0" **B**

1	08.07.18	BULLETIN 1
	08.06.18	ISSUED FOR CONSTRUCTION
	06.20.18	ISSUED FOR BID
	04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

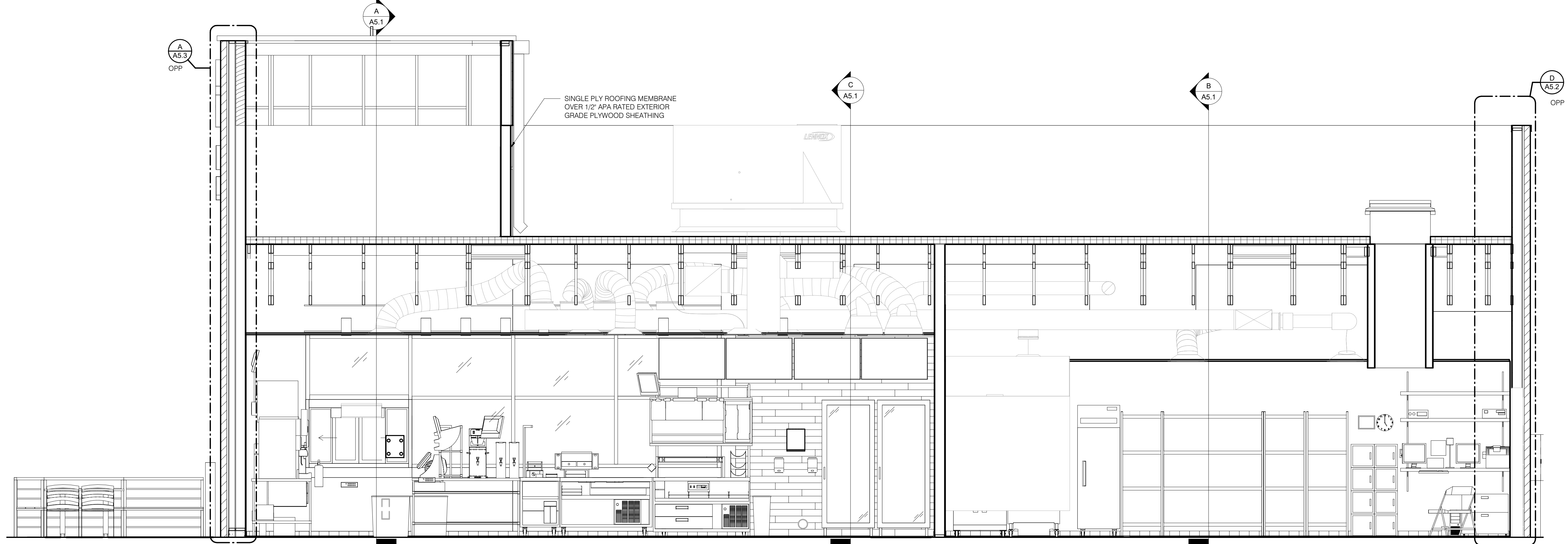
TACO BELL
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MODERN EXPLORER

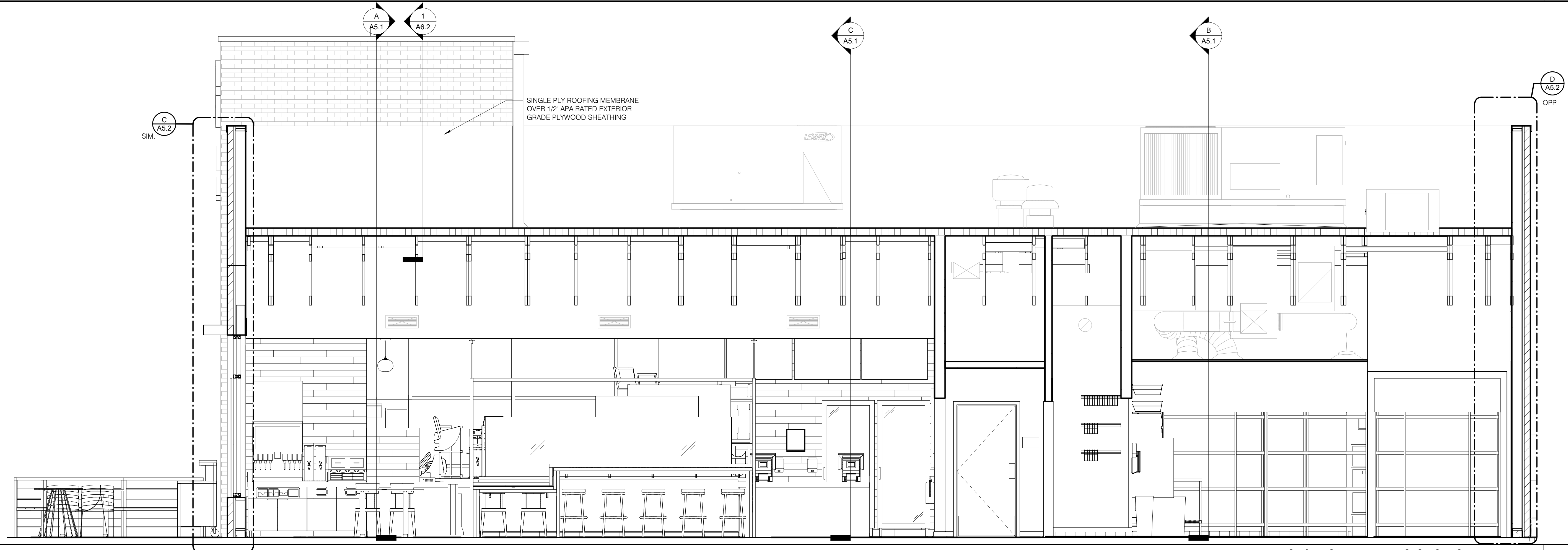
EXTERIOR ELEVATIONS

A4.1

PLOT DATE: 8/7/2018 3:43:44 PM



EAST/WEST BUILDING SECTION 2 3/8" = 1'-0" **A**



EAST/WEST BUILDING SECTION 1 3/8" = 1'-0" **B**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312529/445209
 STORE NUMBER: 2017088.20

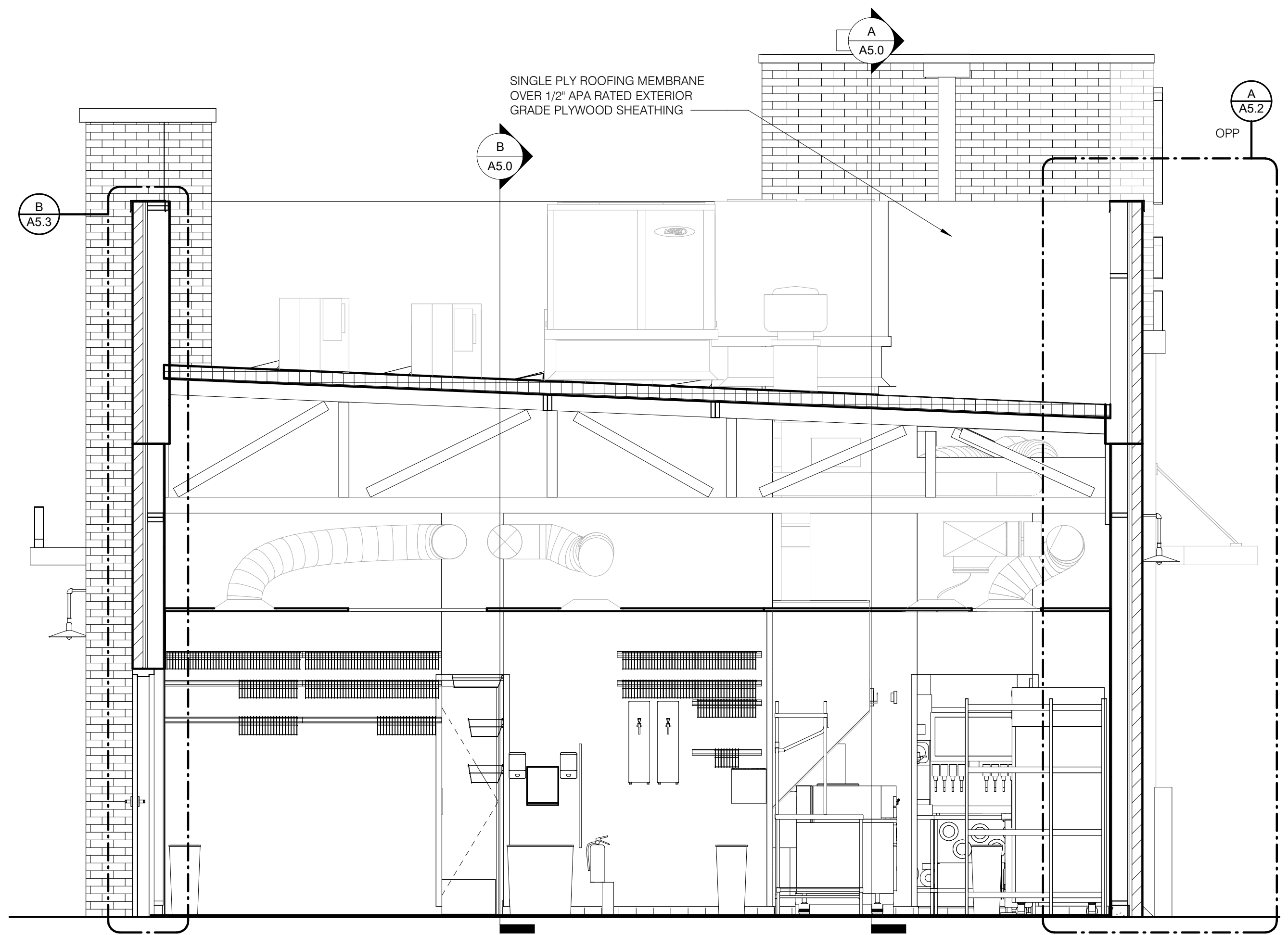
TACO BELL
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 OPEN KITCHEN
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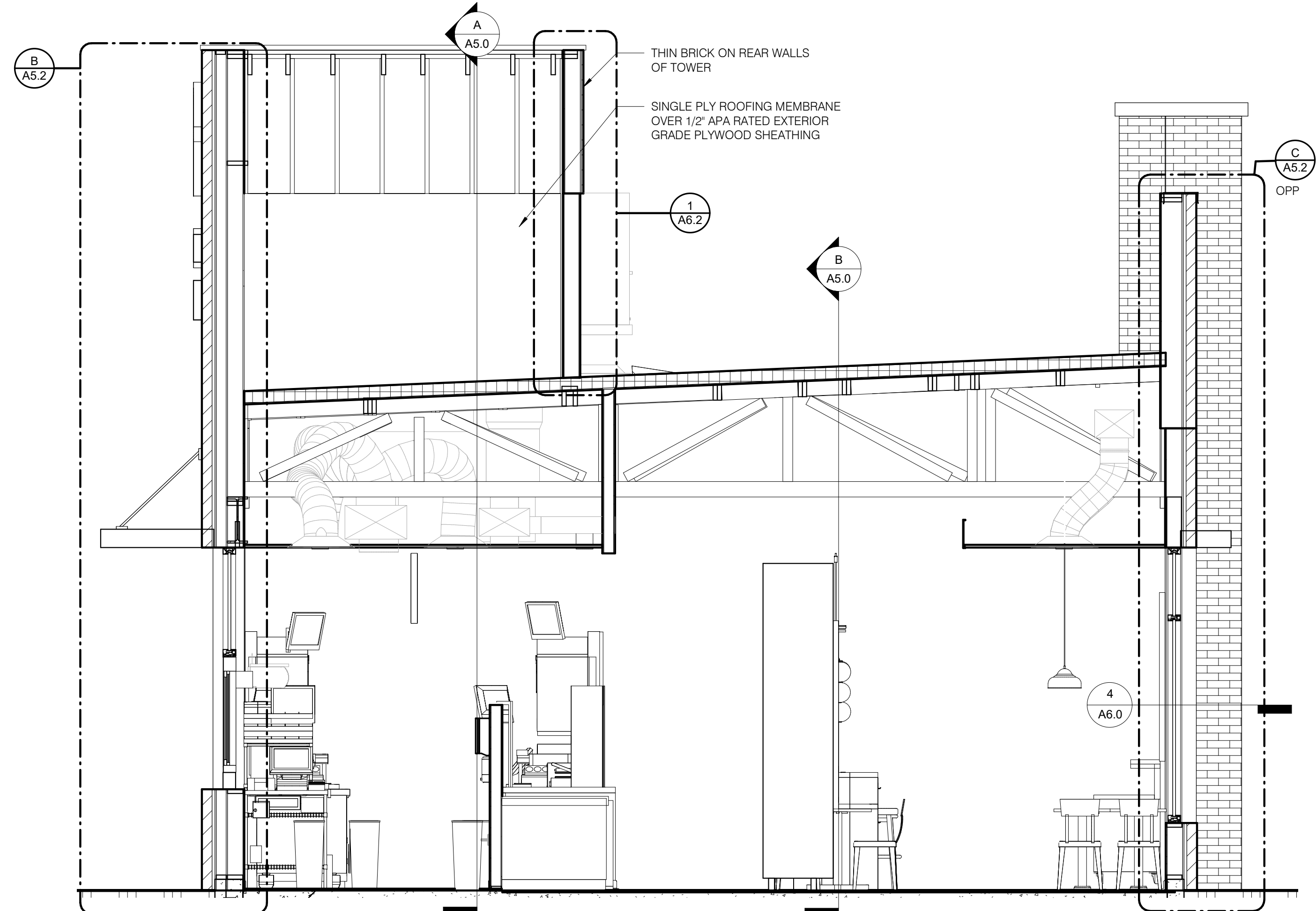
BUILDING SECTIONS

A5.0

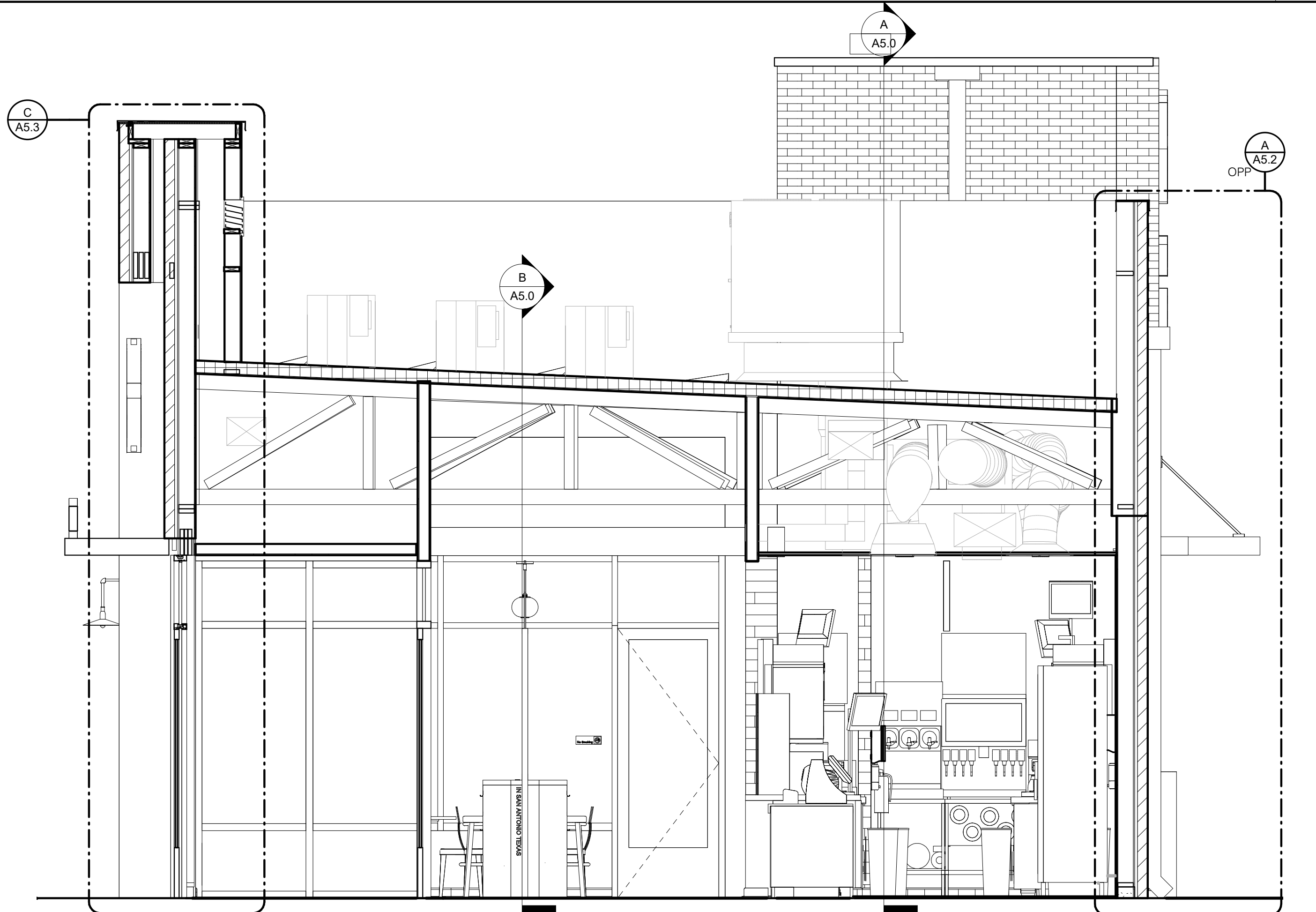
PLOT DATE: 8/7/2018 3:43:48 PM



NORTH/SOUTH BUILDING SECTION 3 3/8" = 1'-0" **B**



NORTH/SOUTH BUILDING SECTION 5 3/8" = 1'-0" **A**



NORTH/SOUTH BUILDING SECTION 4 3/8" = 1'-0" **C**

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06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

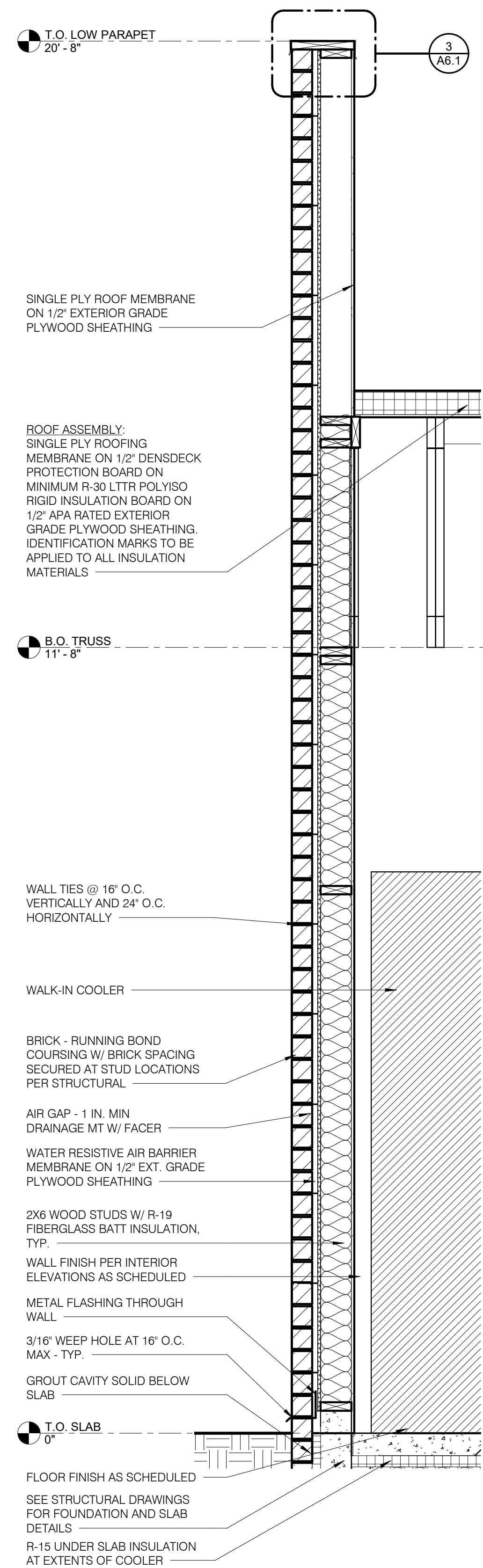
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OPEN KITCHEN
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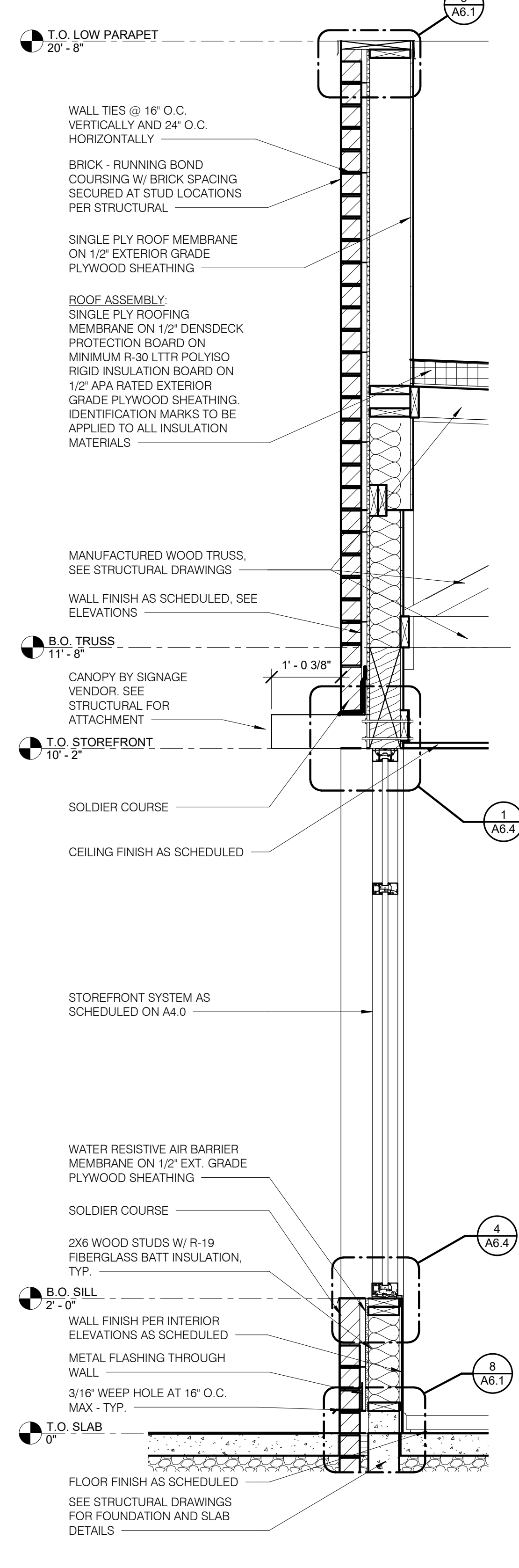
BUILDING SECTIONS

A5.1

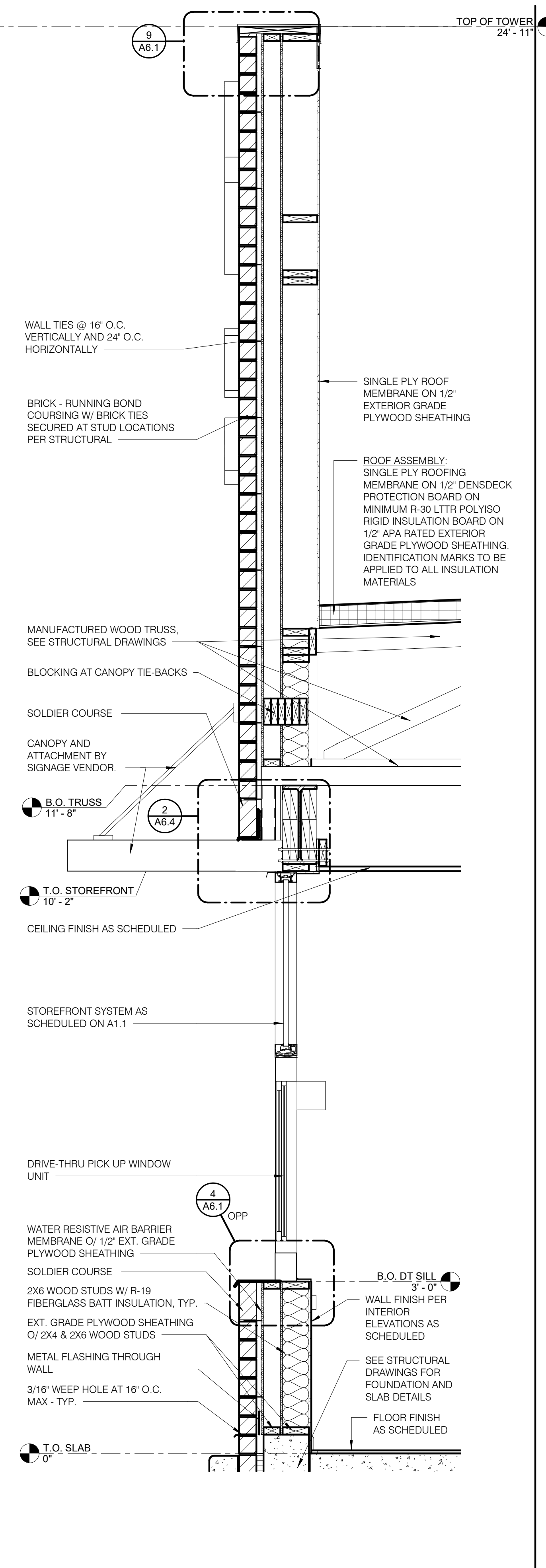
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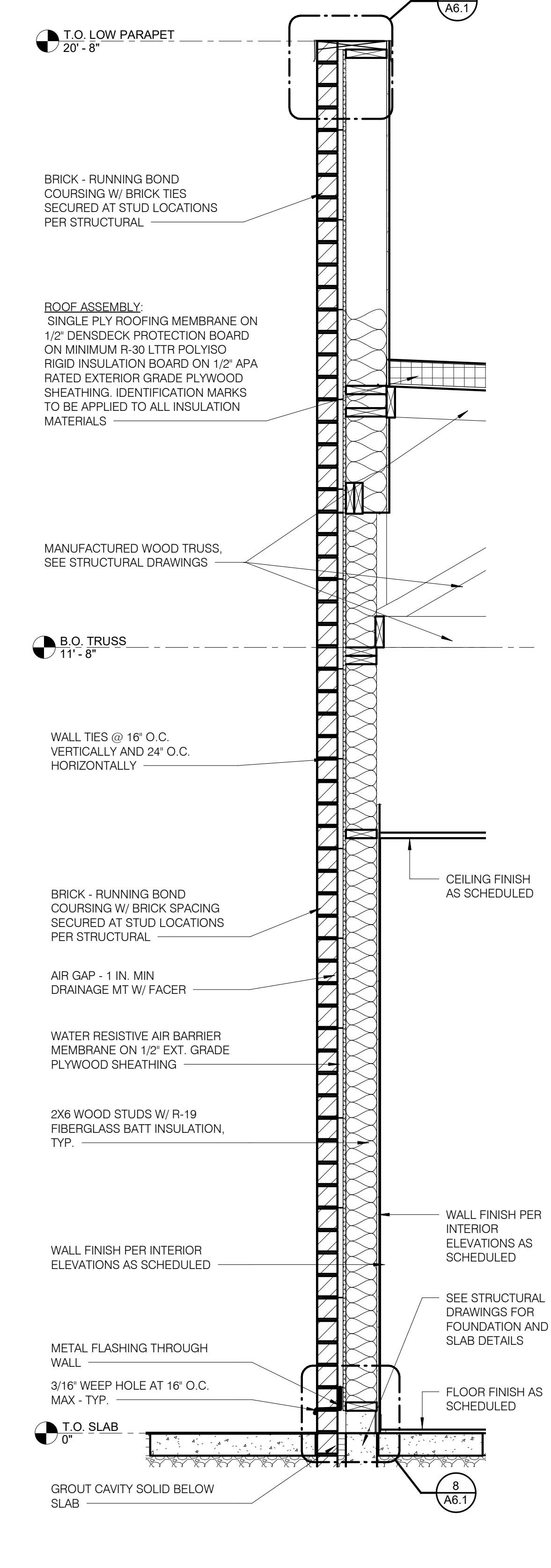
WALL SECTION AT COOLER WALL 3/4" = 1'-0" **D**



WALL SECTION AT DINING WINDOWS 3/4" = 1'-0" **C**



WALL SECTION AT DRIVE THRU WINDOW 3/4" = 1'-0" **B**



TYPICAL WALL SECTION 3/4" = 1'-0" **A**

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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

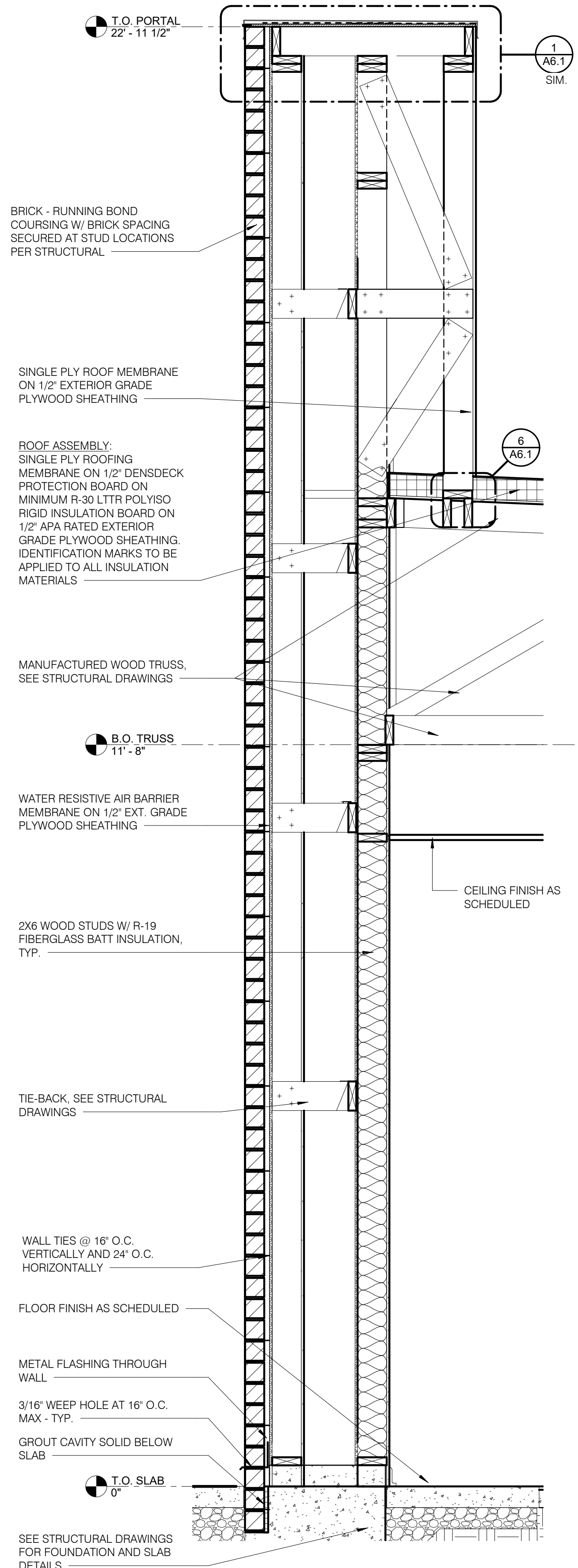
TACO BELL
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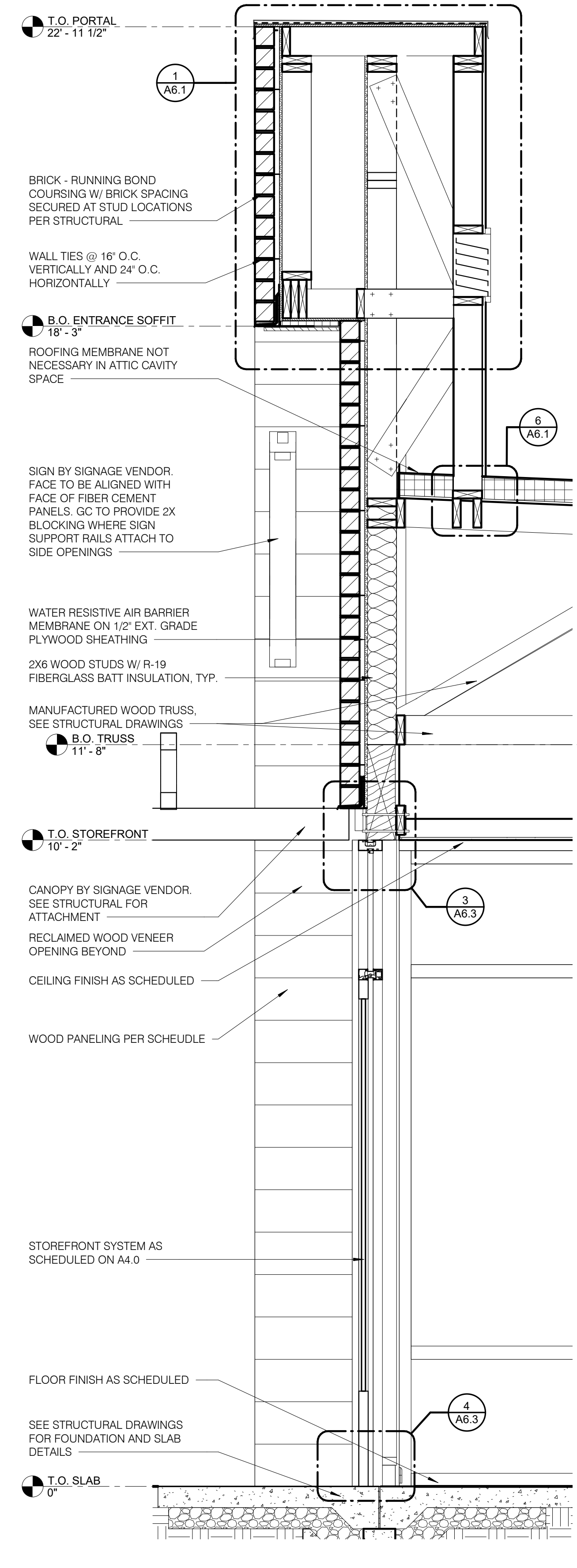
WALL SECTIONS

A5.2

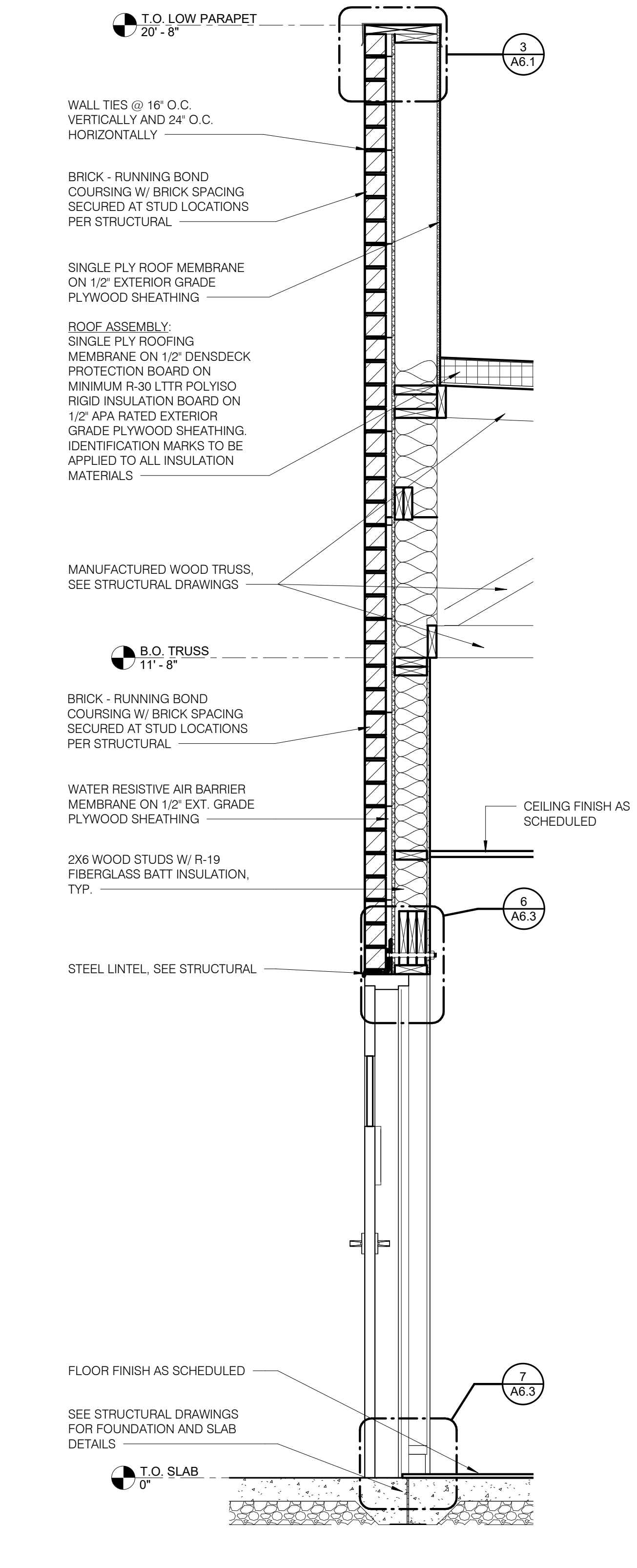
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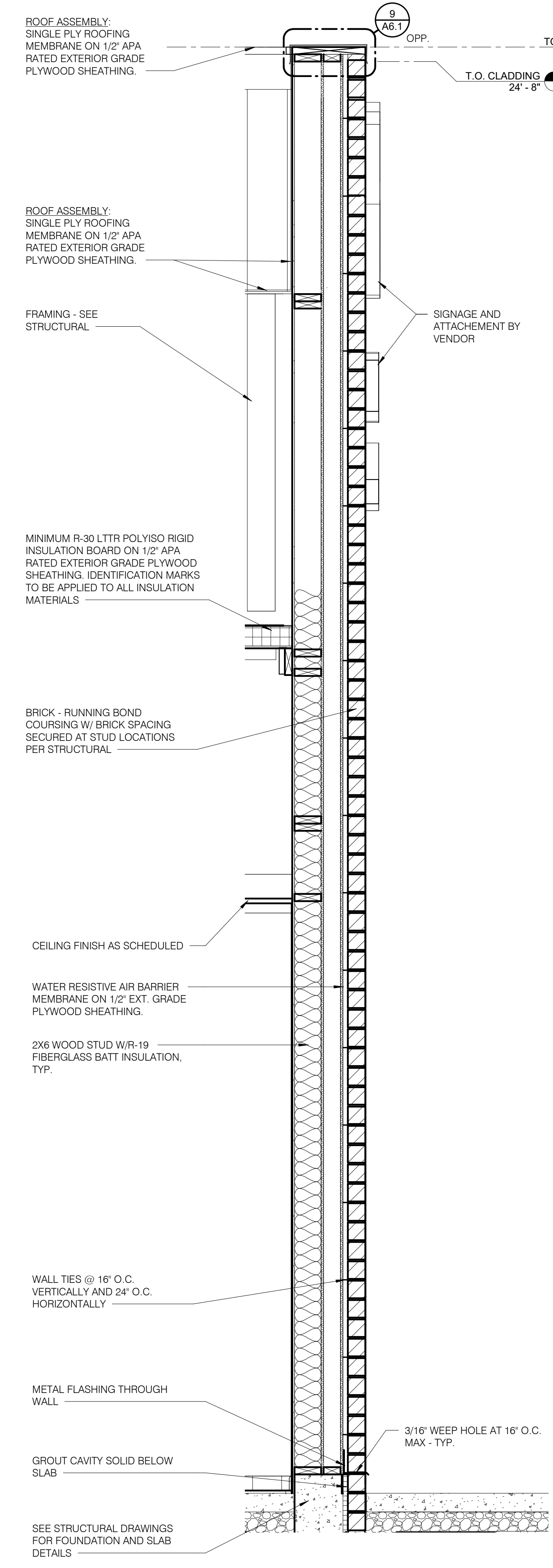
WALL SECTION AT ENTRANCE PORTAL 3/4" = 1'-0" **D**



WALL SECTION AT ENTRANCE DOORS 3/4" = 1'-0" **C**



WALL SECTION AT SERVICE DOOR 3/4" = 1'-0" **B**



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

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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

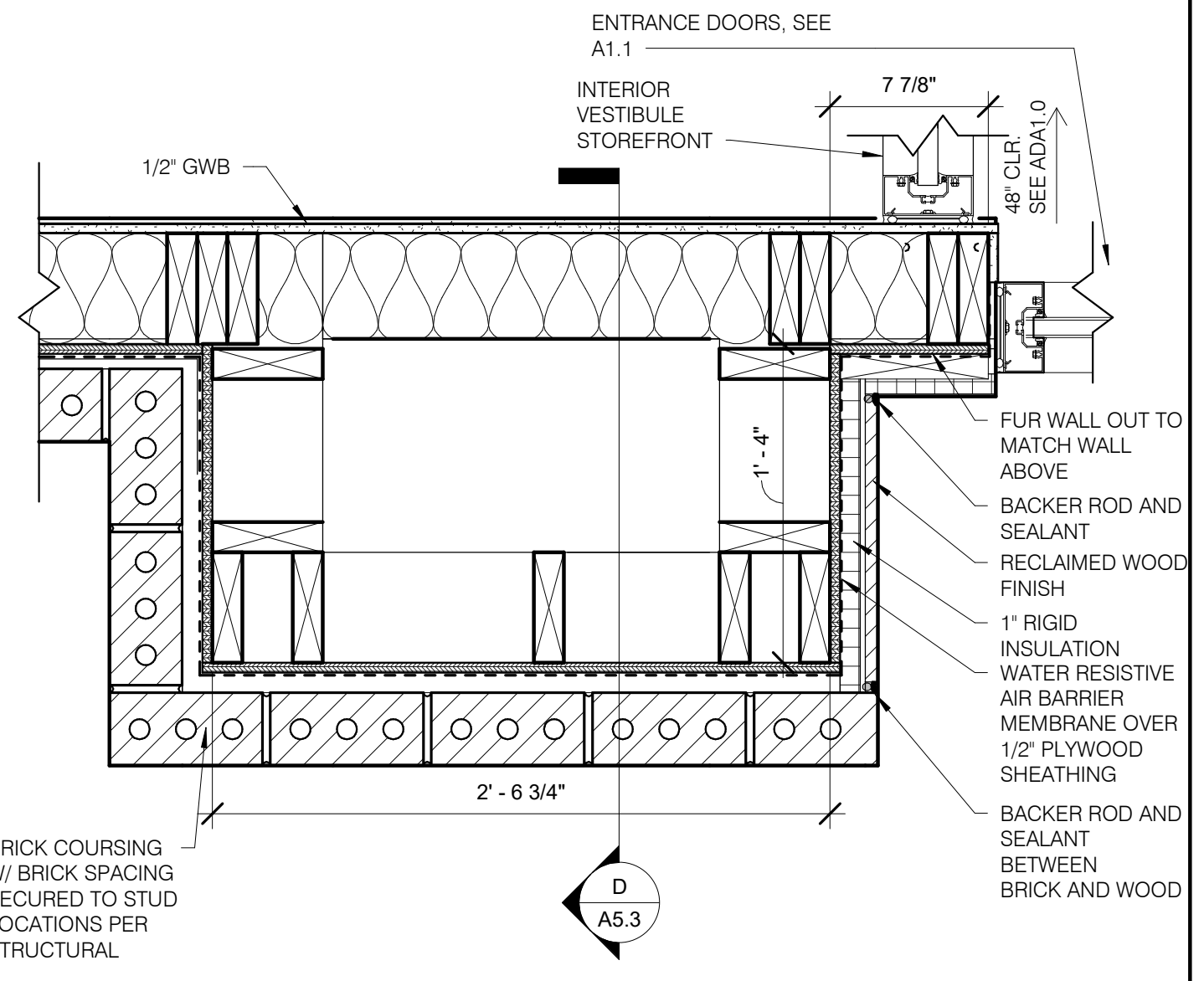
TACO BELL
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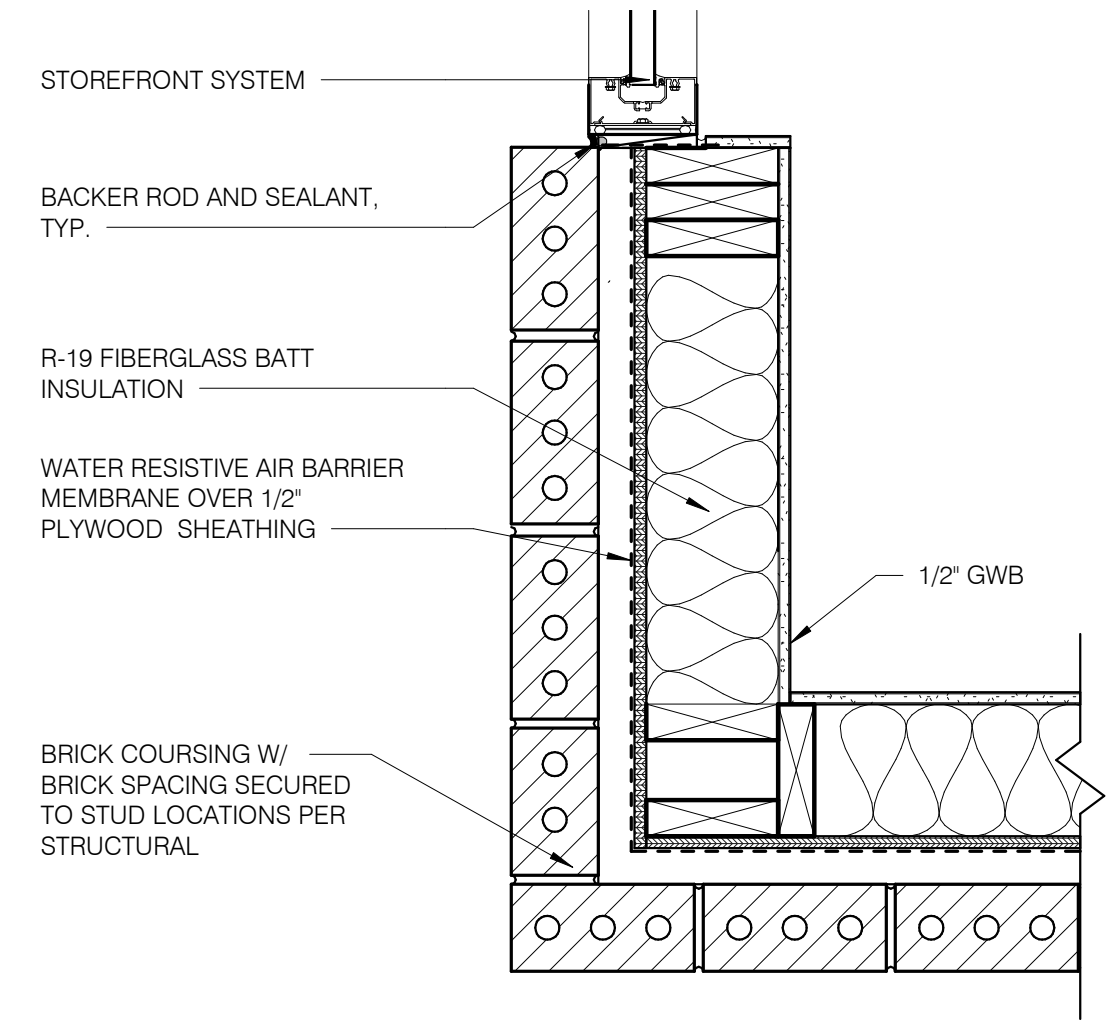
WALL SECTIONS

A5.3

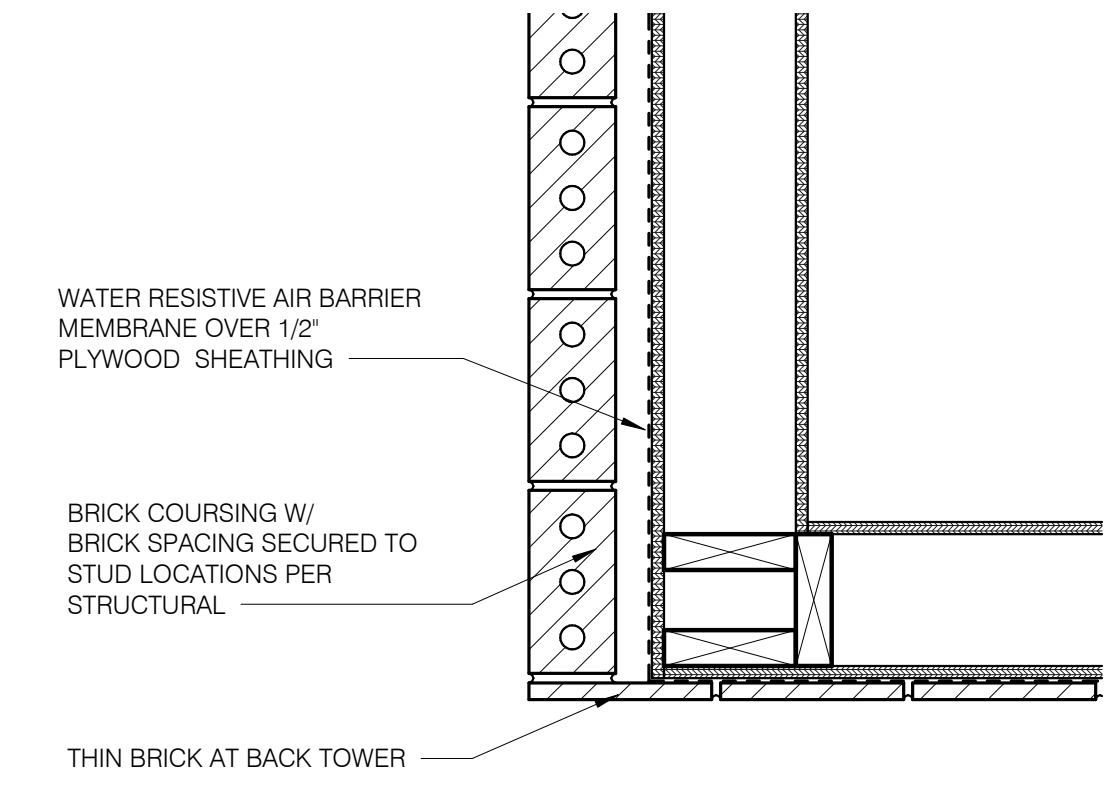
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ENTRANCE PORTAL DETAIL 1 1/2" = 1'-0" **4**



CORNER DETAIL 1 1/2" = 1'-0" **3**



TOWER CORNER AT THIN BRICK N.T.S. **2**

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04.16.18	ISSUED FOR PERMIT

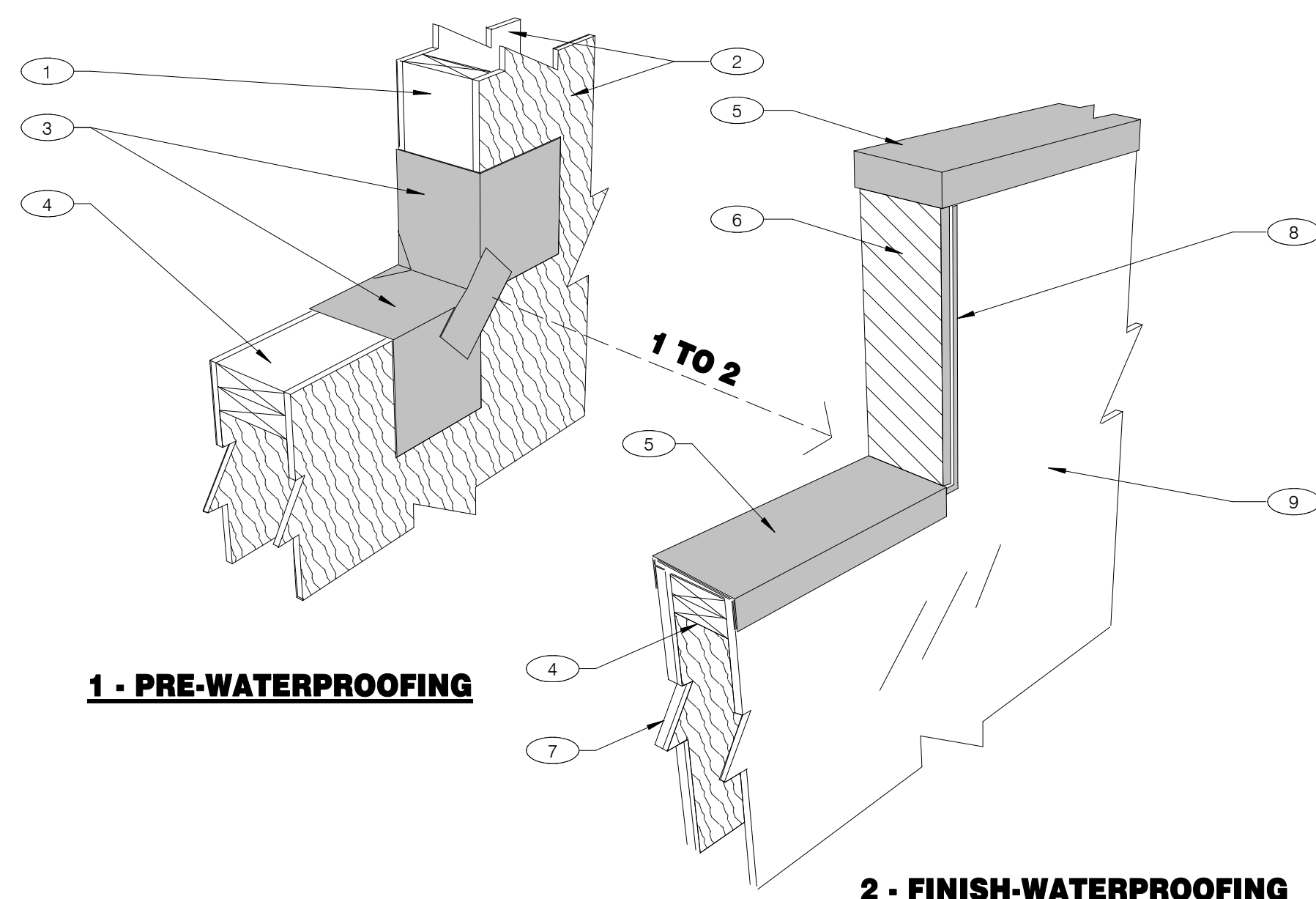
CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

TACO BELL
19000 NORTHLINE ROAD
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T40
OPEN KITCHEN
MODERN EXPLORER

CONSTRUCTION PLAN DETAILS

A6.0



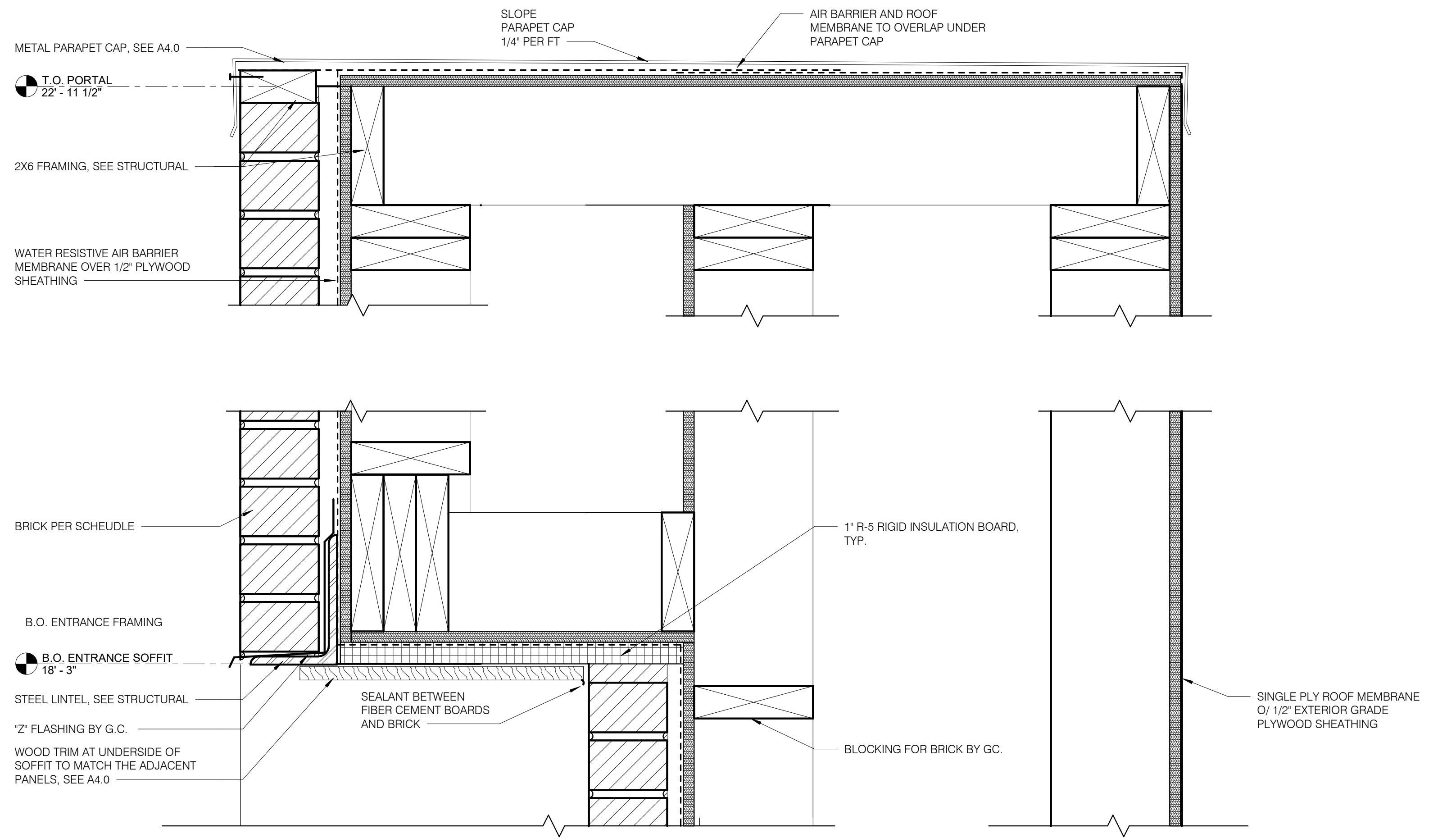
1 - PRE-WATERPROOFING

2 - FINISH-WATERPROOFING

NOTES

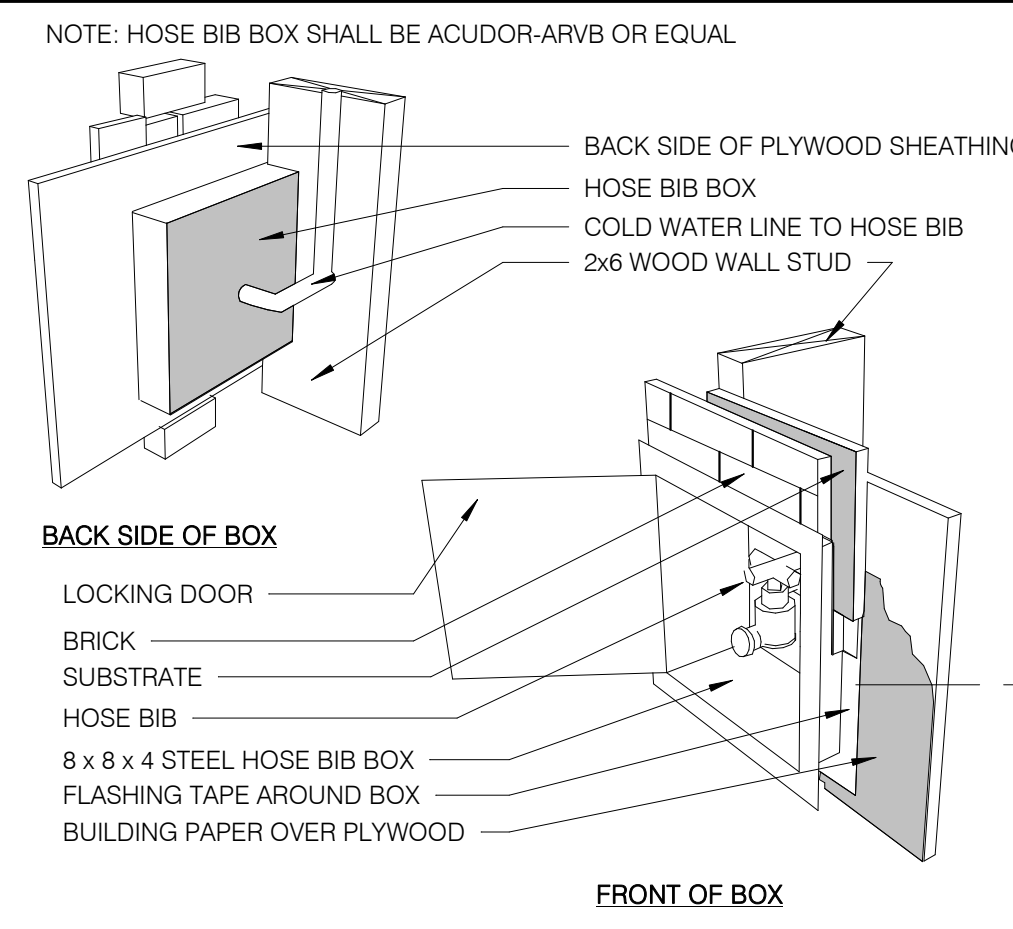
- 1 2X WOOD STUDS
- 2 PLYWOOD SUBSTRATE FOR EXTERIOR WALLS
- 3 FLASHING TAPE AT ALL VERTICAL PARAPET TRANSITIONS. EXTEND TAPE 12" OUTWARD AND UPWARD FROM CORNER AS SHOWN. LAP CORNERS WITH ANGLED TAPE AS SHOWN TO INSURE FULL COVERAGE AT CORNERS
- 4 DOUBLE 2X TOP PLATE.
- 5 PAINTED 24 GAUGE PARAPET COPING. 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 1" THICK EIFS ONTO VERTICAL FACE OF PARAPET TRANSITION
- 7 BRICK FINISH ON OUTER SURFACE OF EXTERIOR WALL. THICKNESS PER THE EXTERIOR ELEVATIONS ON SHEET A4.0
- 8 TERMINATION BAR AT VERTICAL TRANSITION OF EIFS AND MEMBRANE ROOFING. SEAL VERTICAL GAP BETWEEN TERMINATION BAR AND EIFS 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.

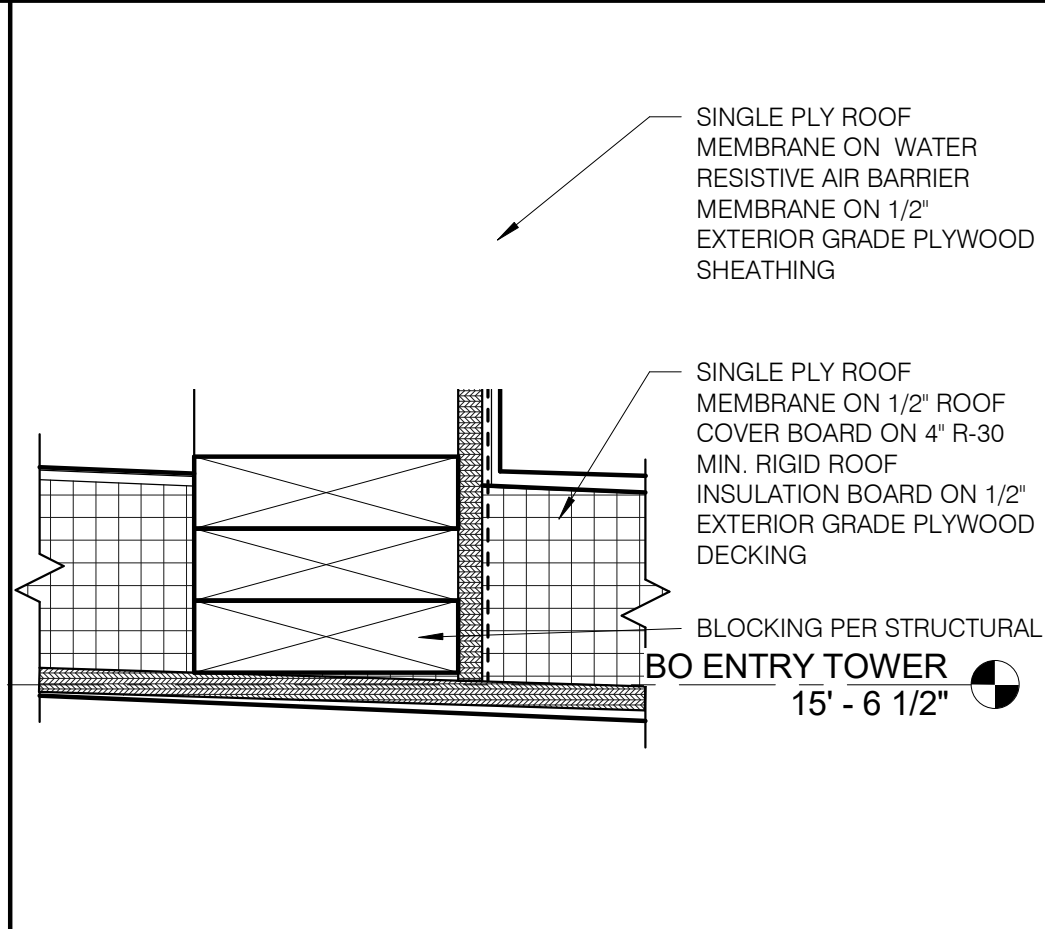


PARAPET CAP & TRANSITION N.T.S. 2

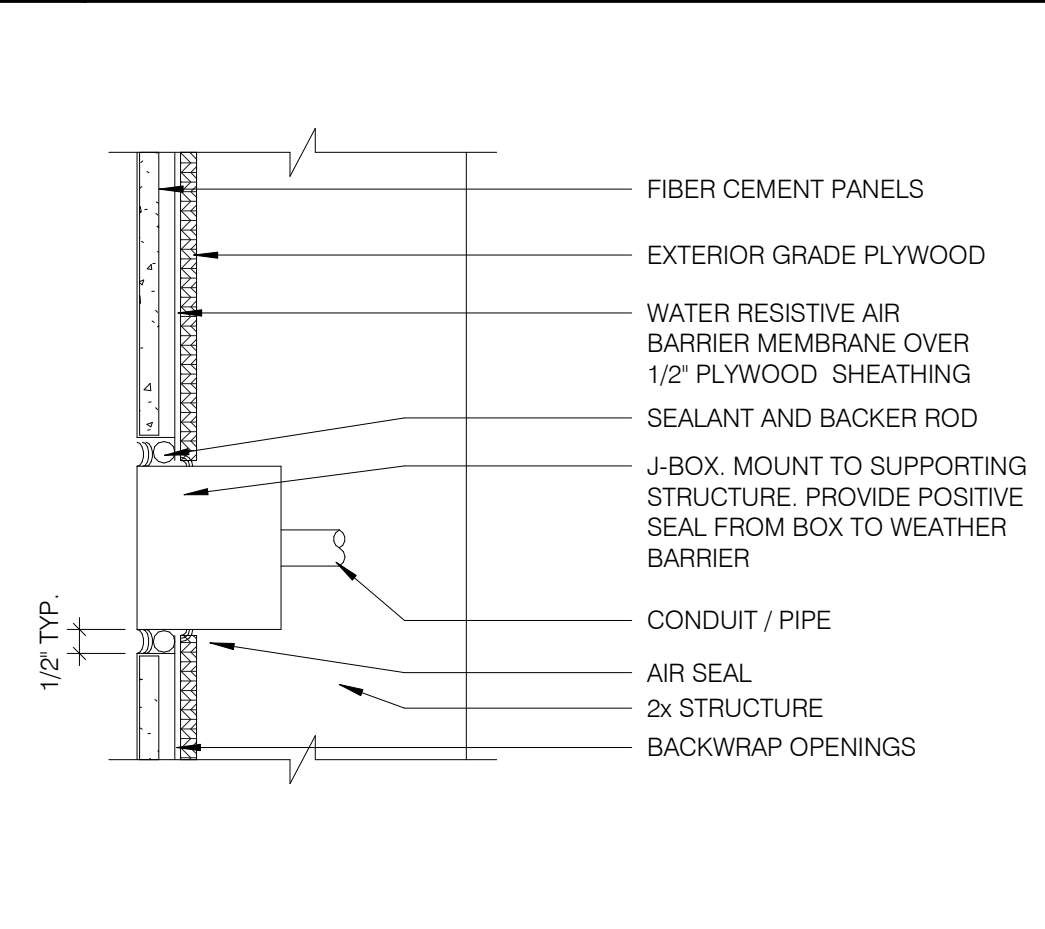
ENTRANCE PORTAL HEAD DETAIL 3" = 1'-0" 1



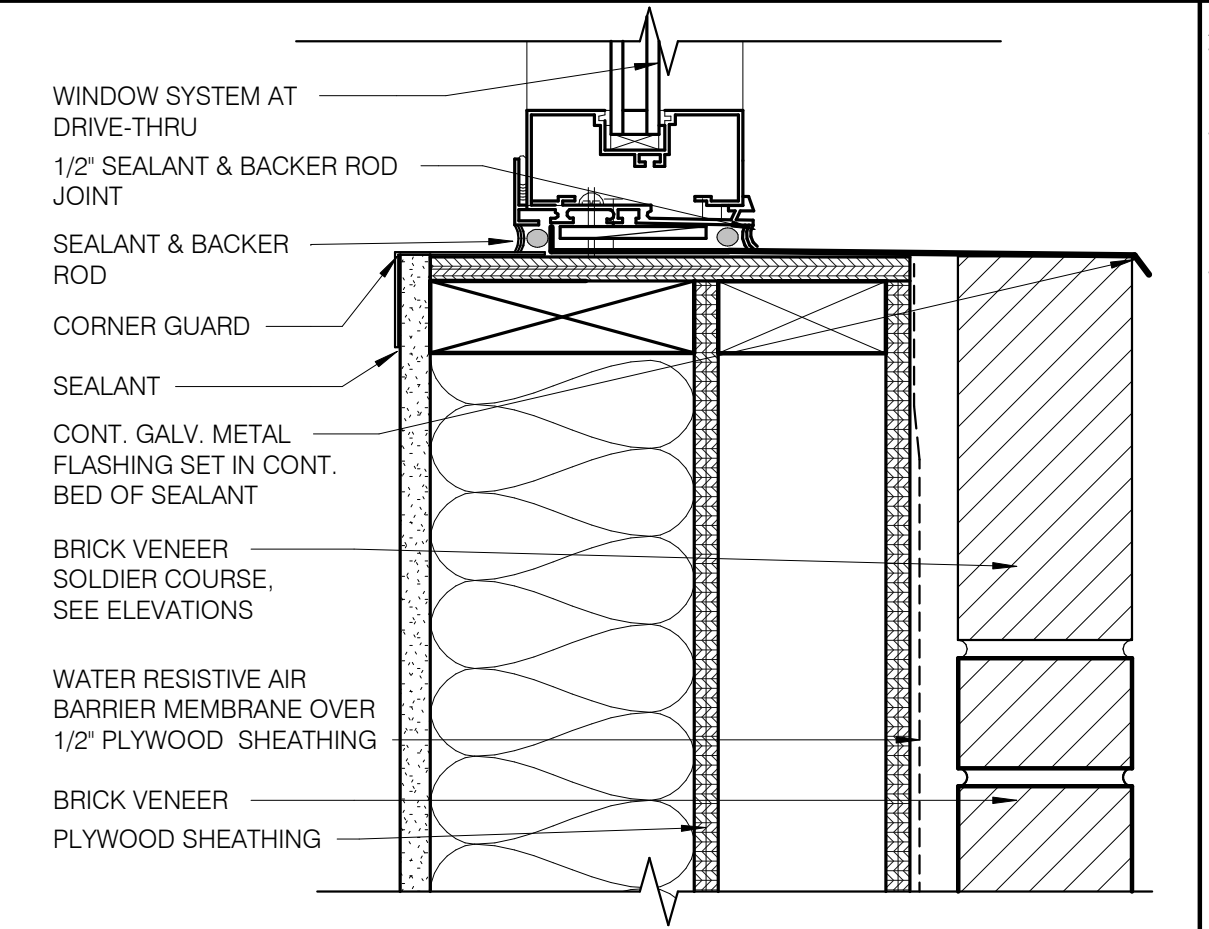
HOSE BIB BOX N.T.S. 7



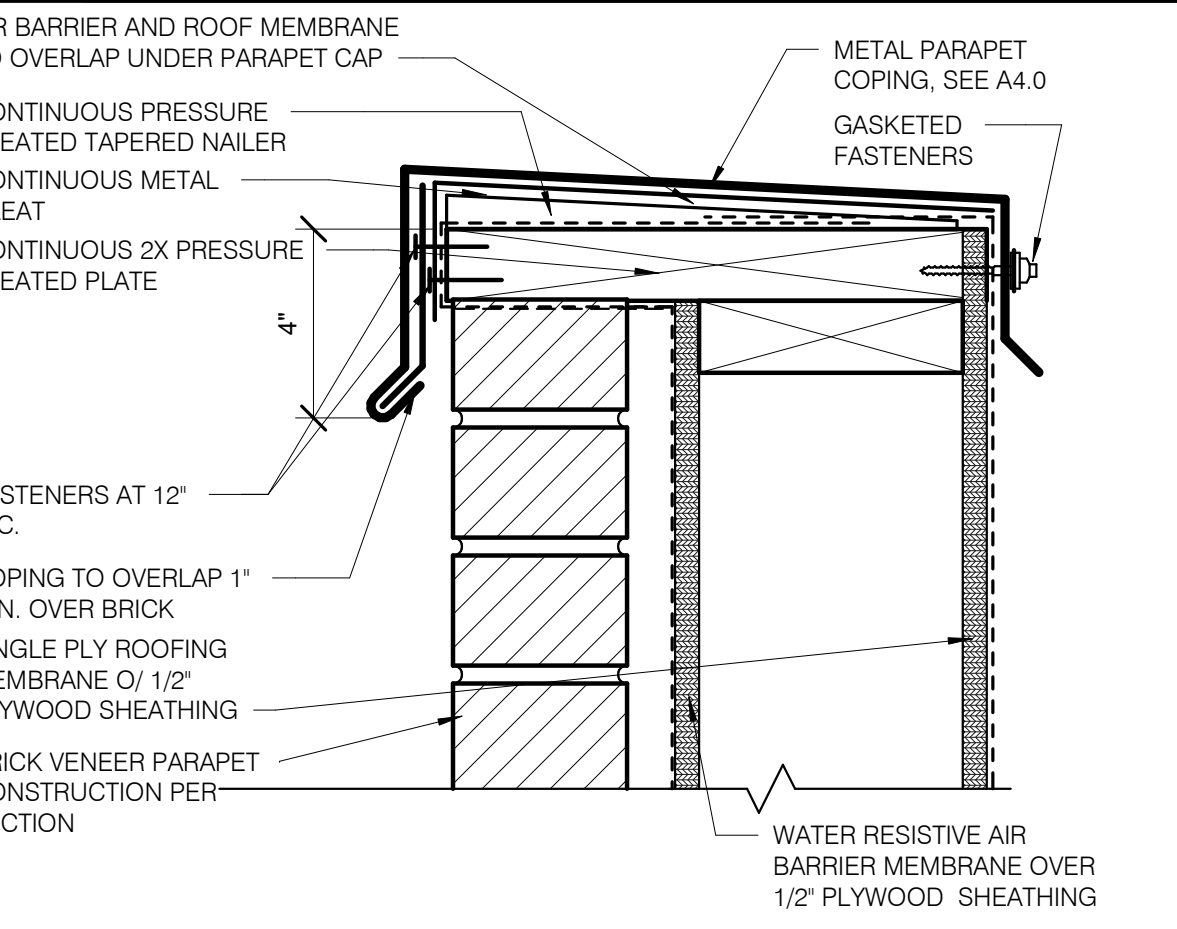
ENTRANCE PORTAL ROOF 3" = 1'-0" 6



CO2 FILL / J-BOX N.T.S. 5



STOREFRONT SILL AT DRIVE-THRU 3" = 1'-0" 4



HEAD AT BRICK SIDING N.T.S. 3



HEAD AT TOWER BRICK N.T.S. 9



BASE AT BRICK 3" = 1'-0" 8

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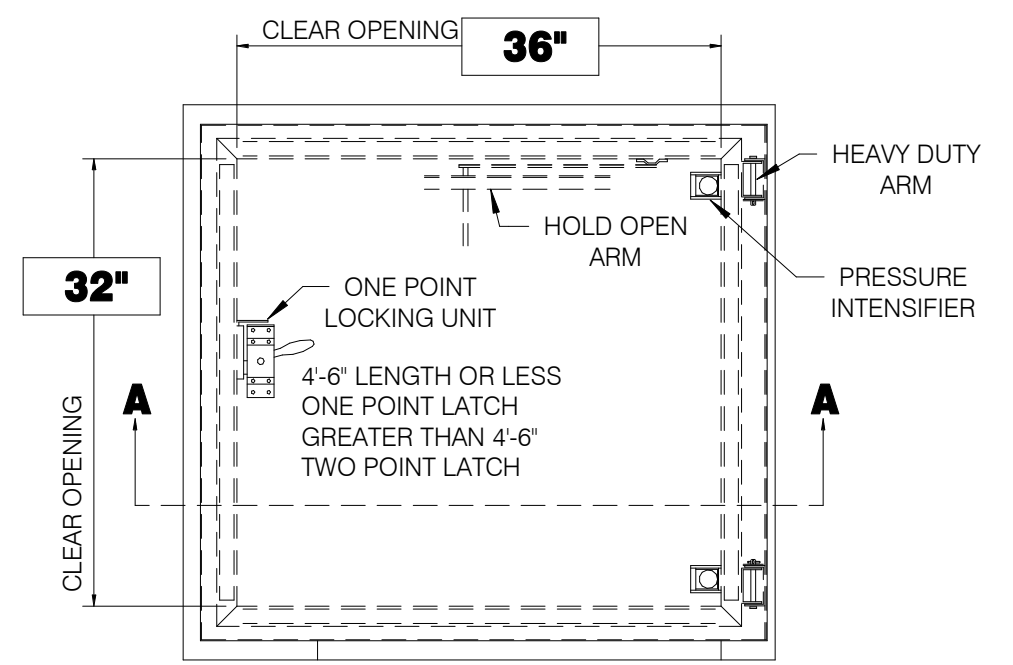
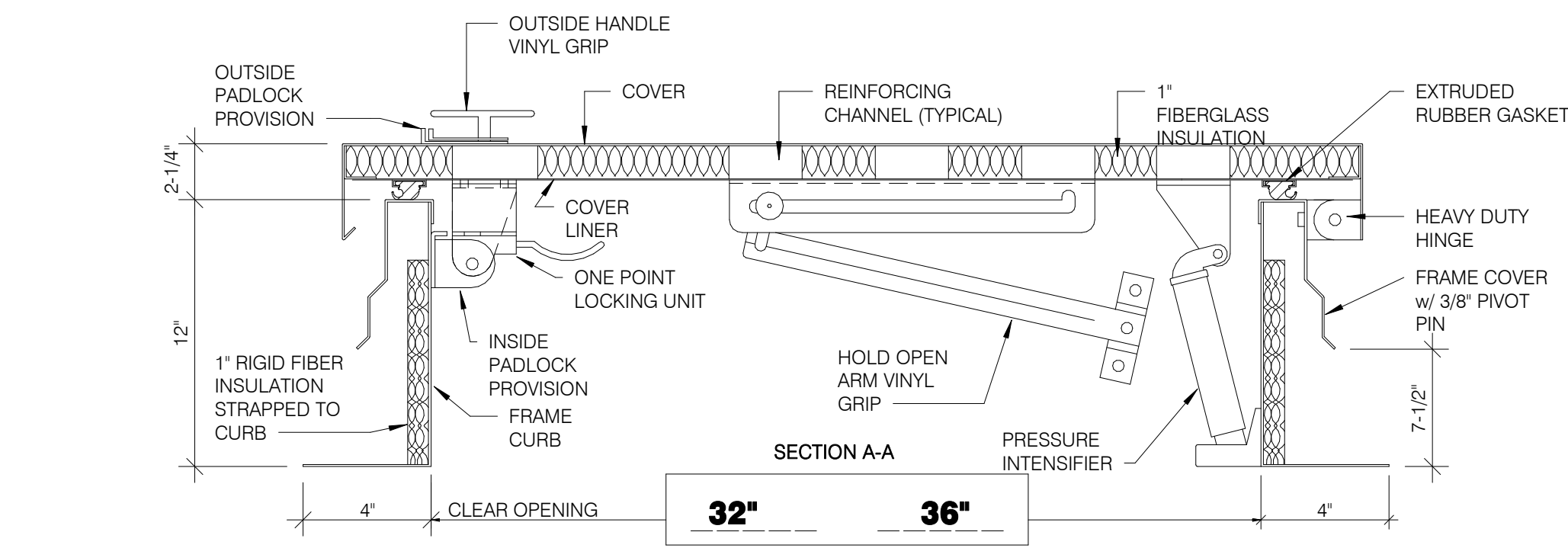
TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

CONSTRUCTION DETAILS WALL

A6.1

PLOT DATE: 8/7/2018 3:44:02 PM



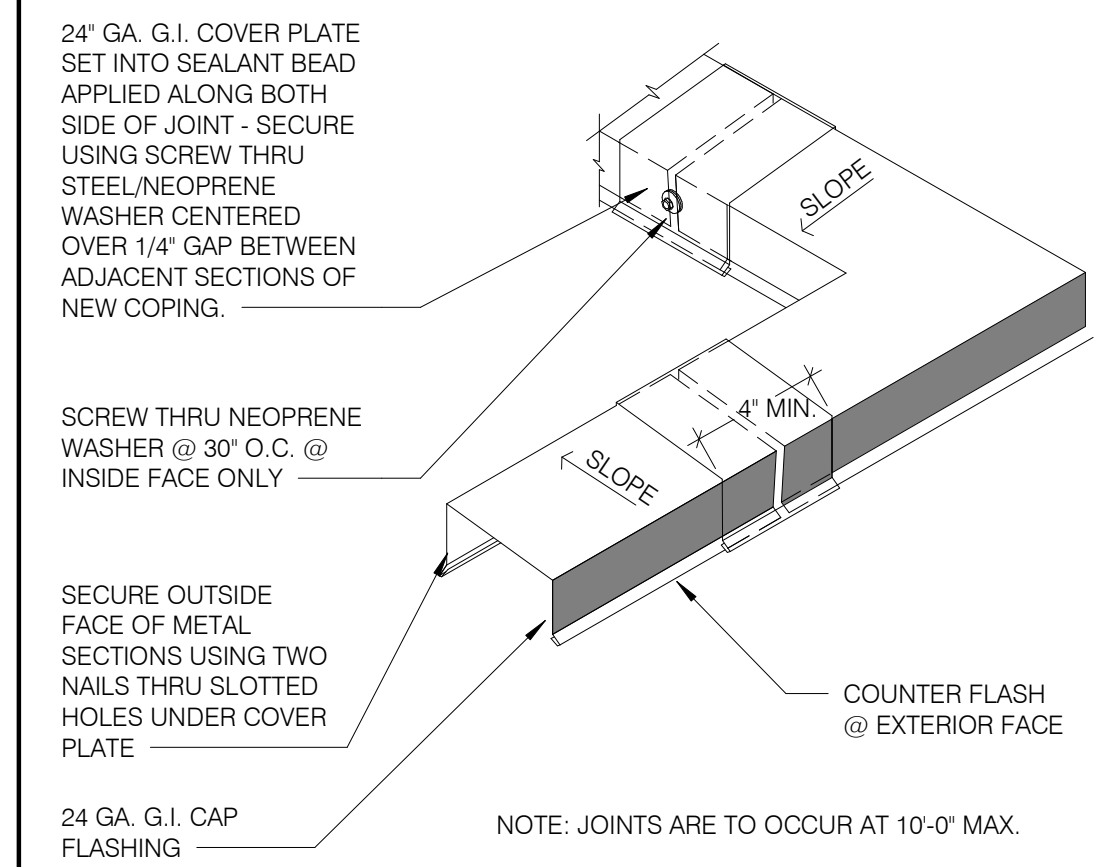
HATCH MATERIAL:
GALVANIZED STEEL (PRIME PAINTED)
COVER - 14 GA. GALV STEEL
FRAME COVER - 14 GA. GALV STEEL
FRAME CURB - 14 GA. GALV STEEL
COVER LINER - 22 GA. GALV STEEL

HATCH FINISH:
GALV - PRIME PAINTED

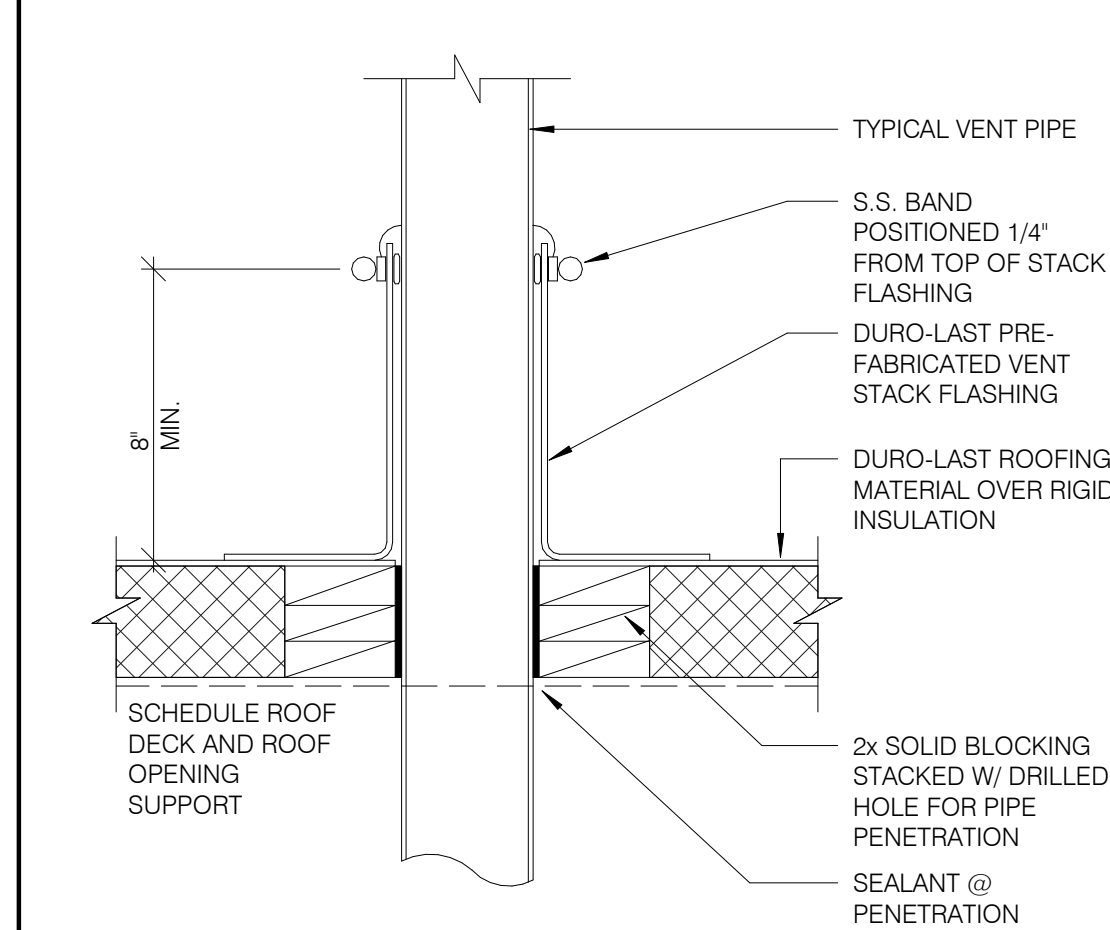
MANUFACTURER:
PRECISION LADDERS, LLC OR EQUAL

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)

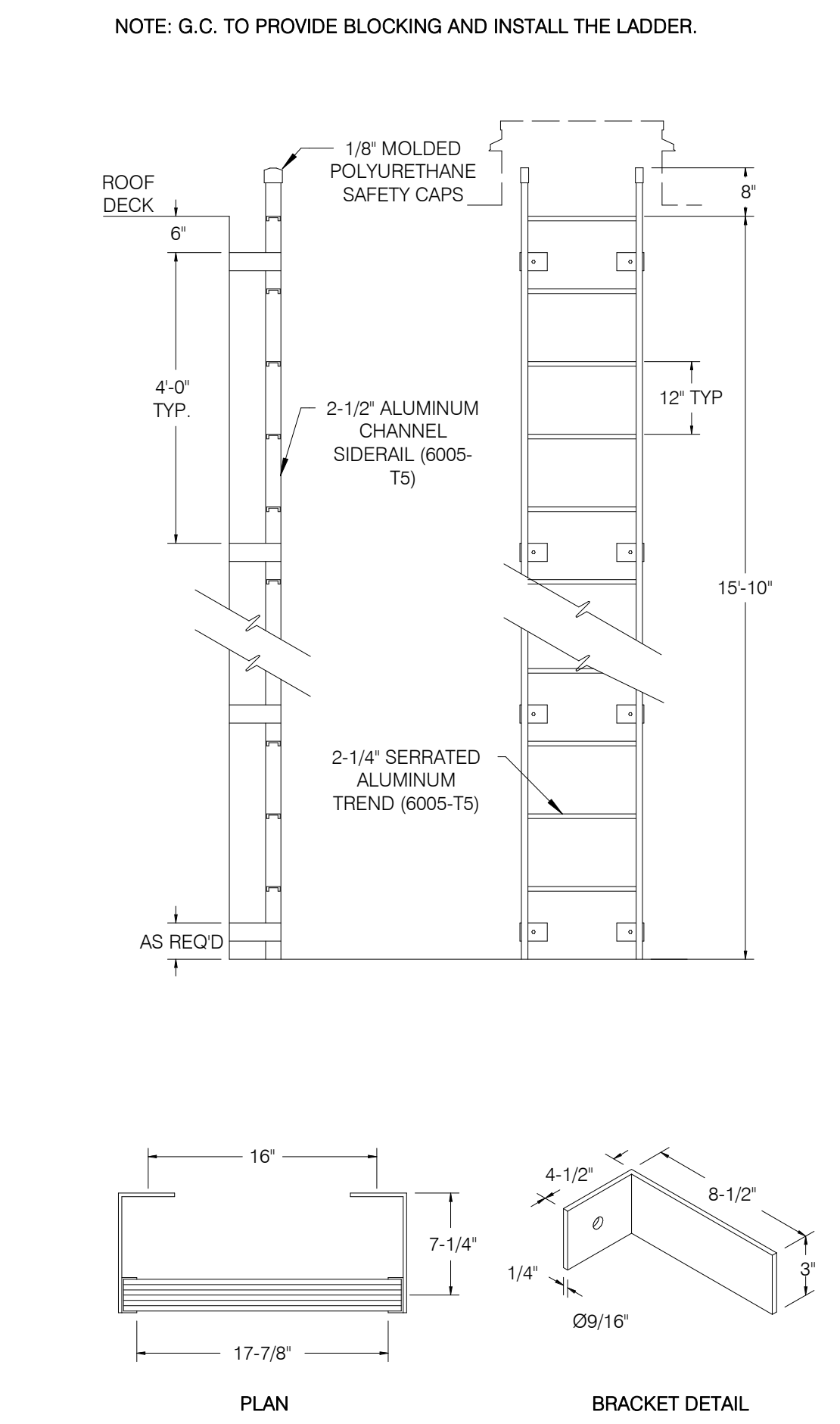
ROOF LADDER AND HATCH 3" = 1'-0" **4**



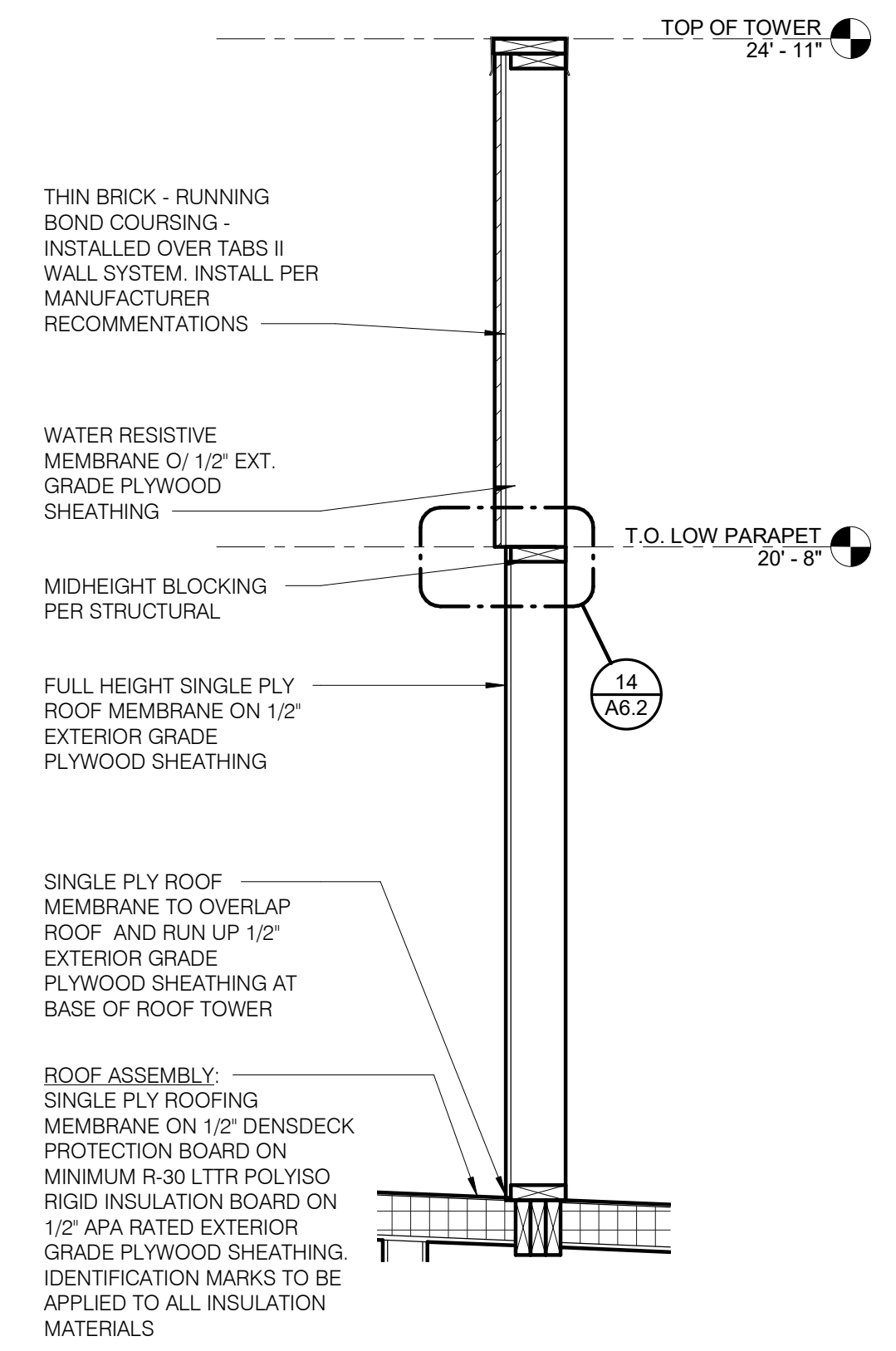
COPING JOINT N.T.S. **3**



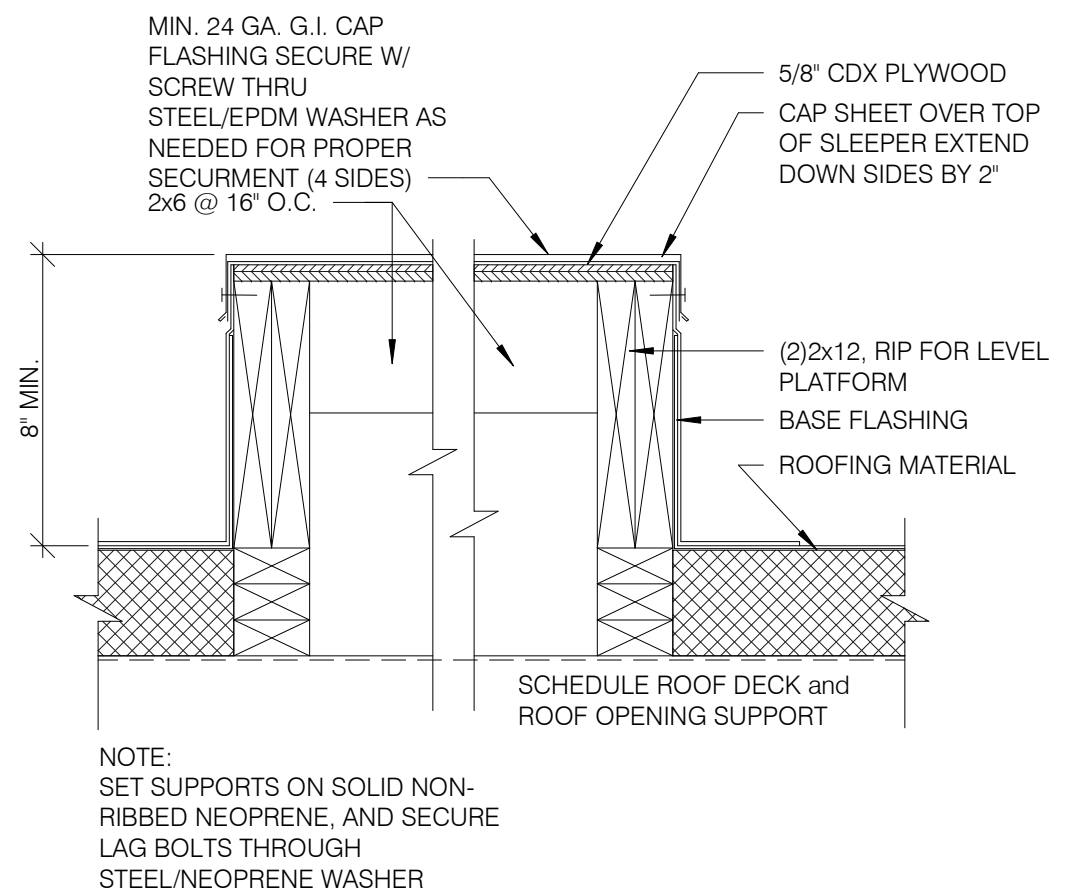
SEALED PIPE FLASHING N.T.S. **5**



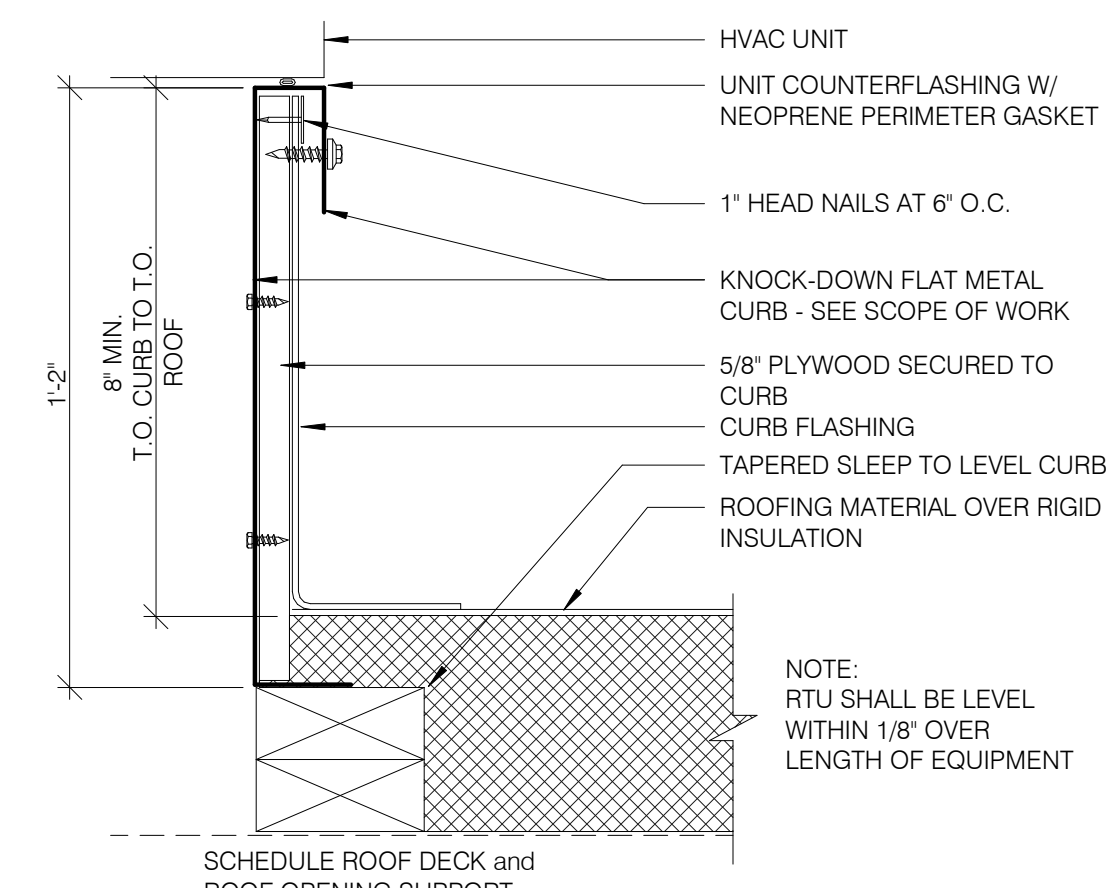
ROOF LADDER N.T.S. **2**



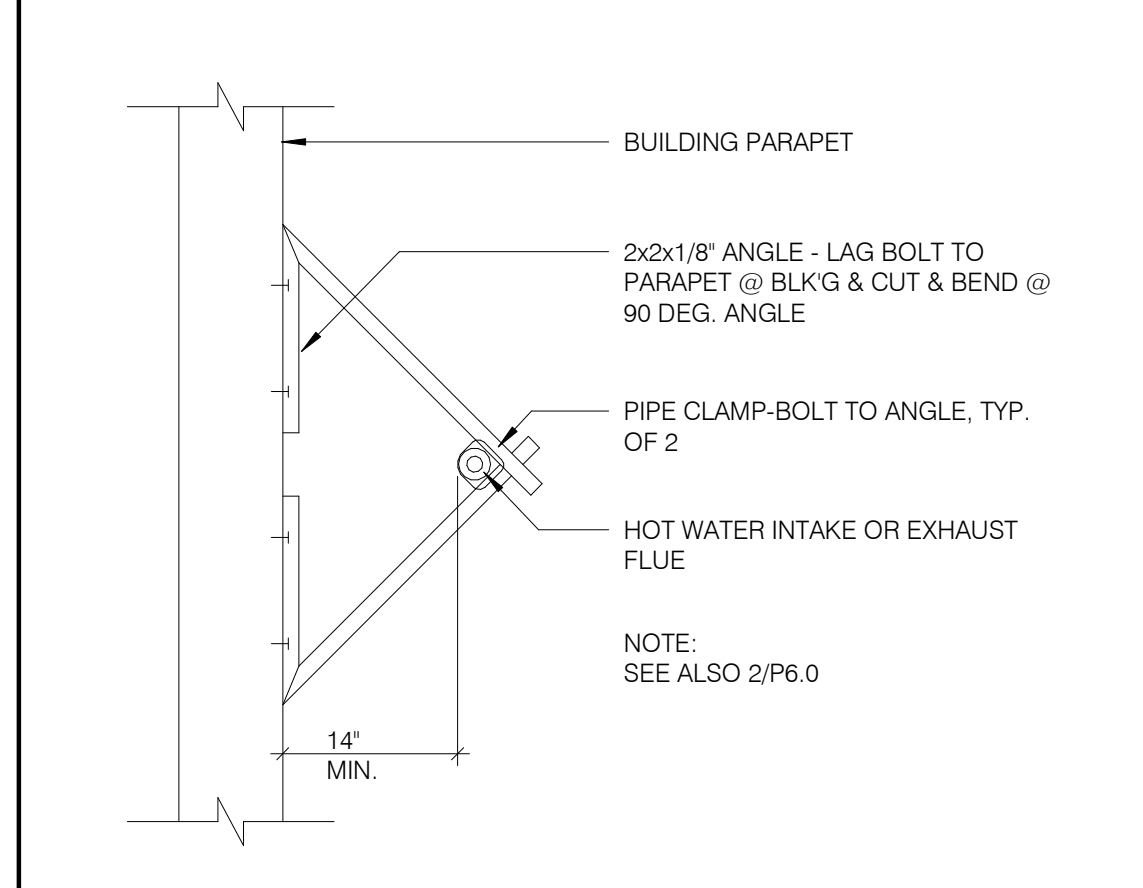
TOWER TO ROOF N.T.S. **1**



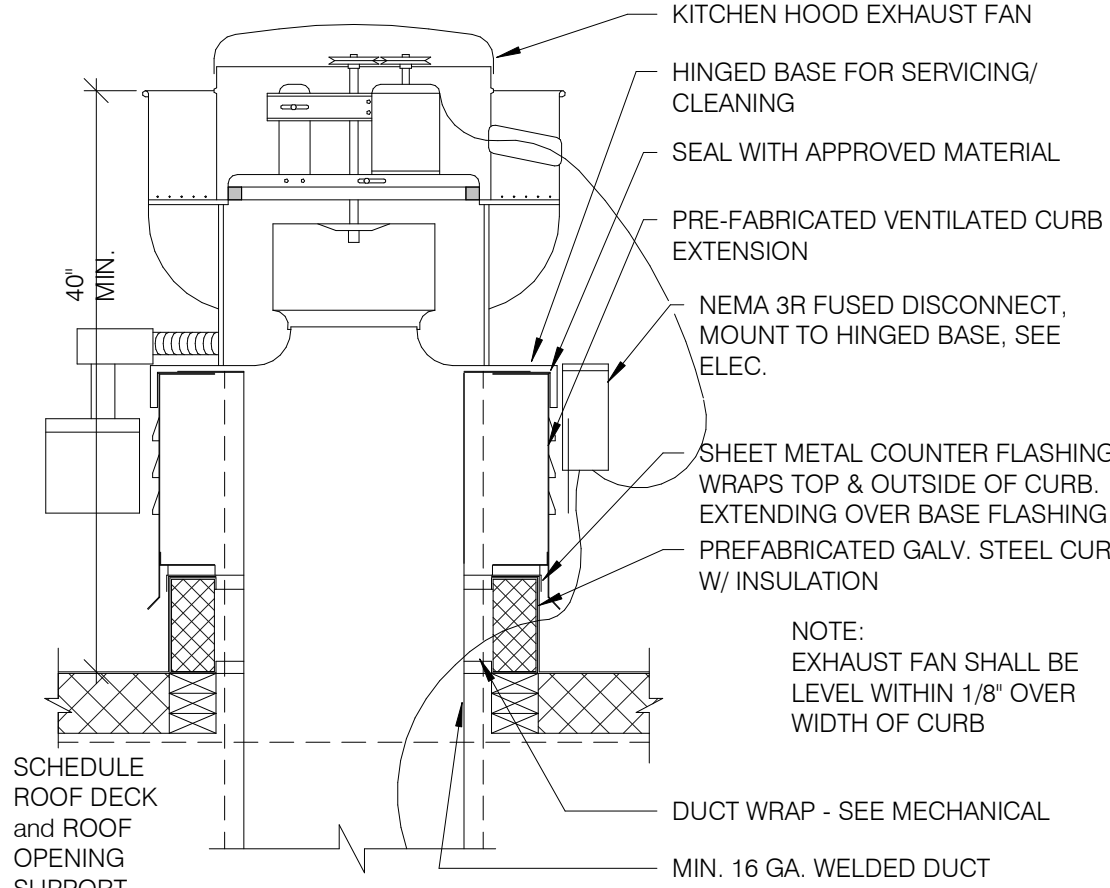
EQUIPMENT PLATFORM SUPPORT 3" = 1'-0" **10**



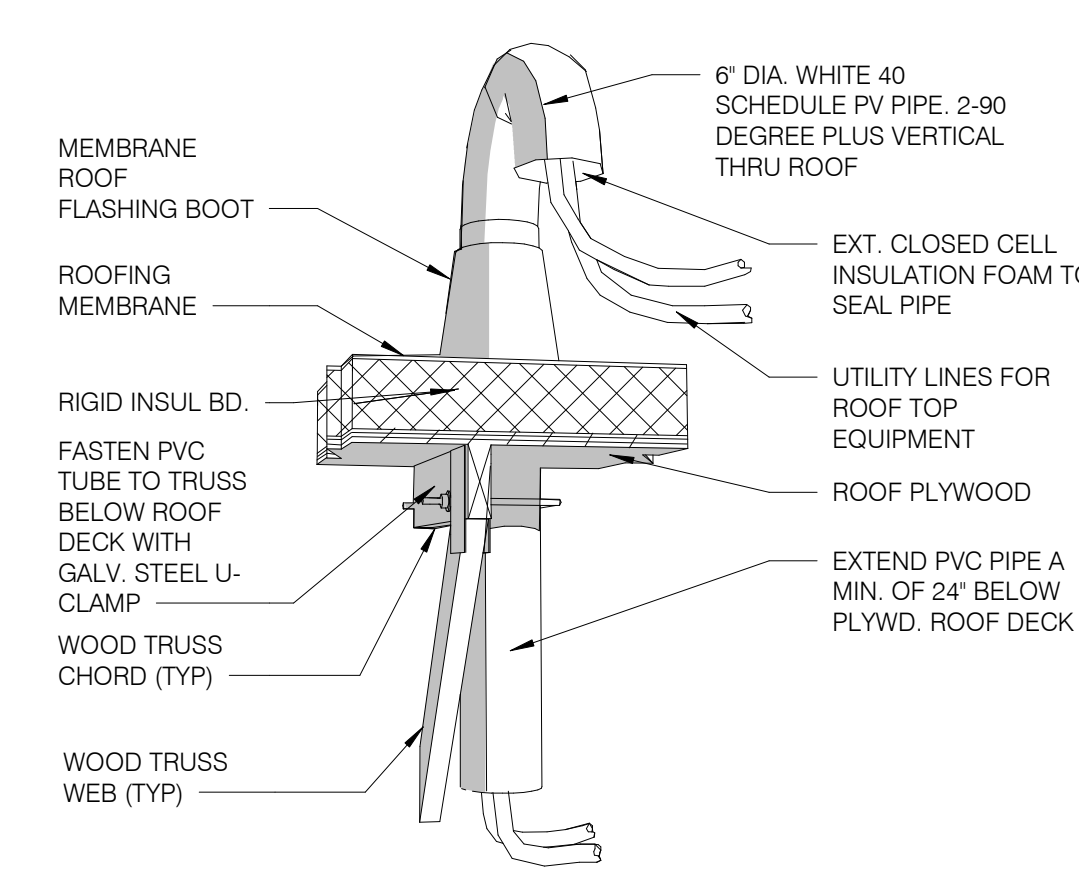
HVAC CURB 3" = 1'-0" **9**



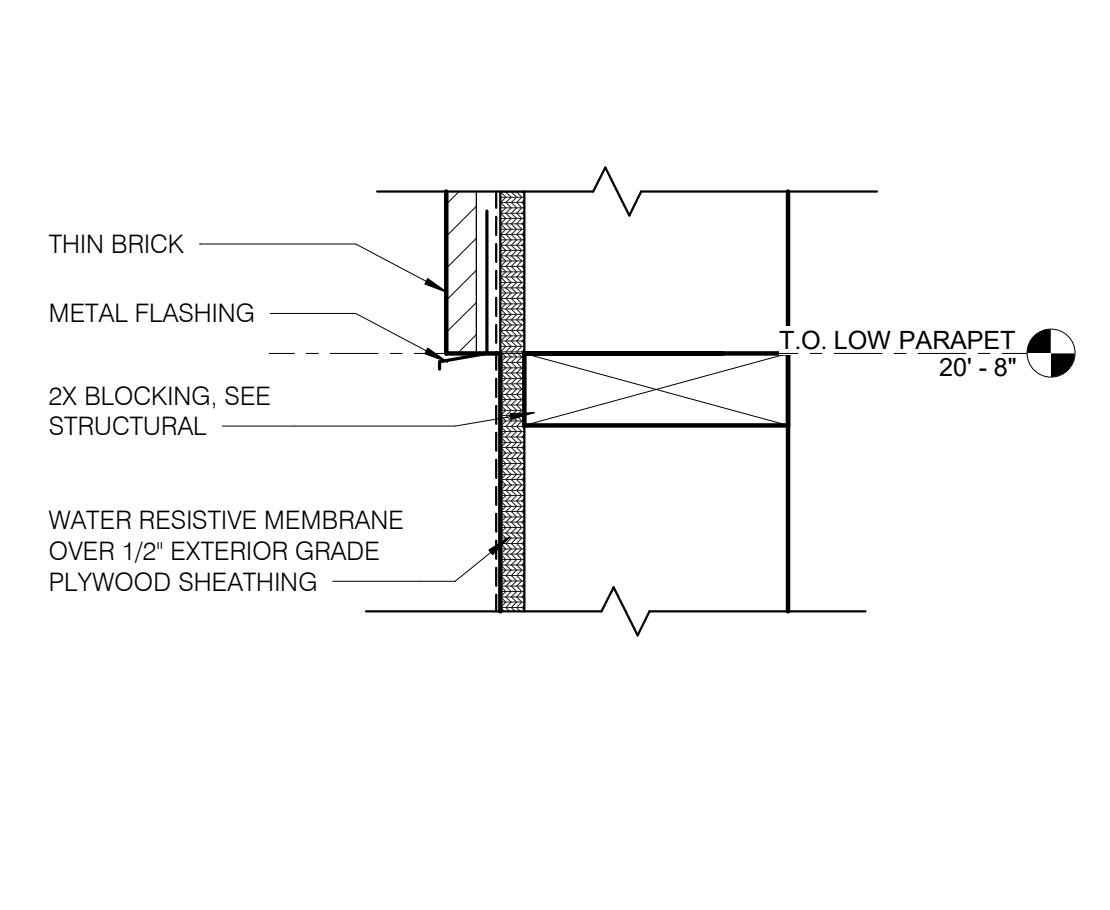
W.H. FLUE / INTAKE PIPE SUPPORT N.T.S. **8**



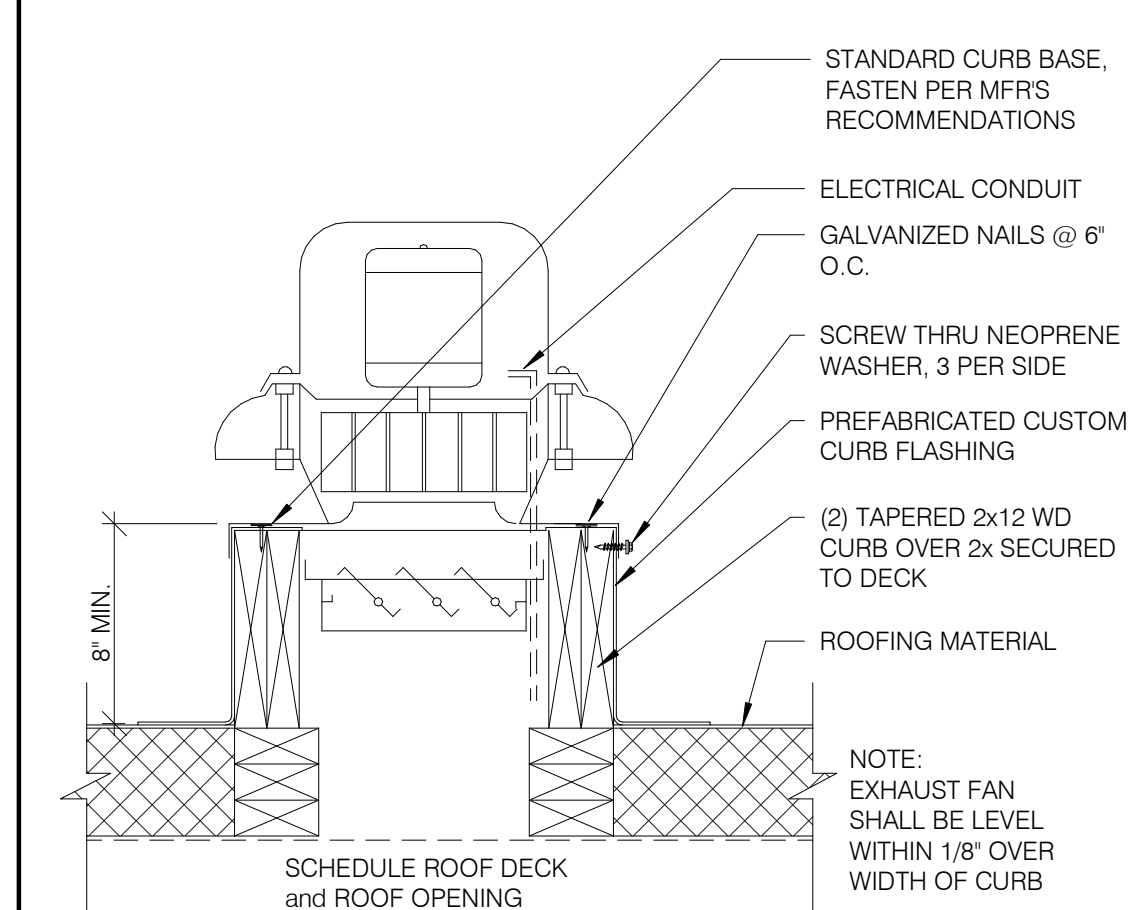
EXHAUST FAN CURB N.T.S. **7**



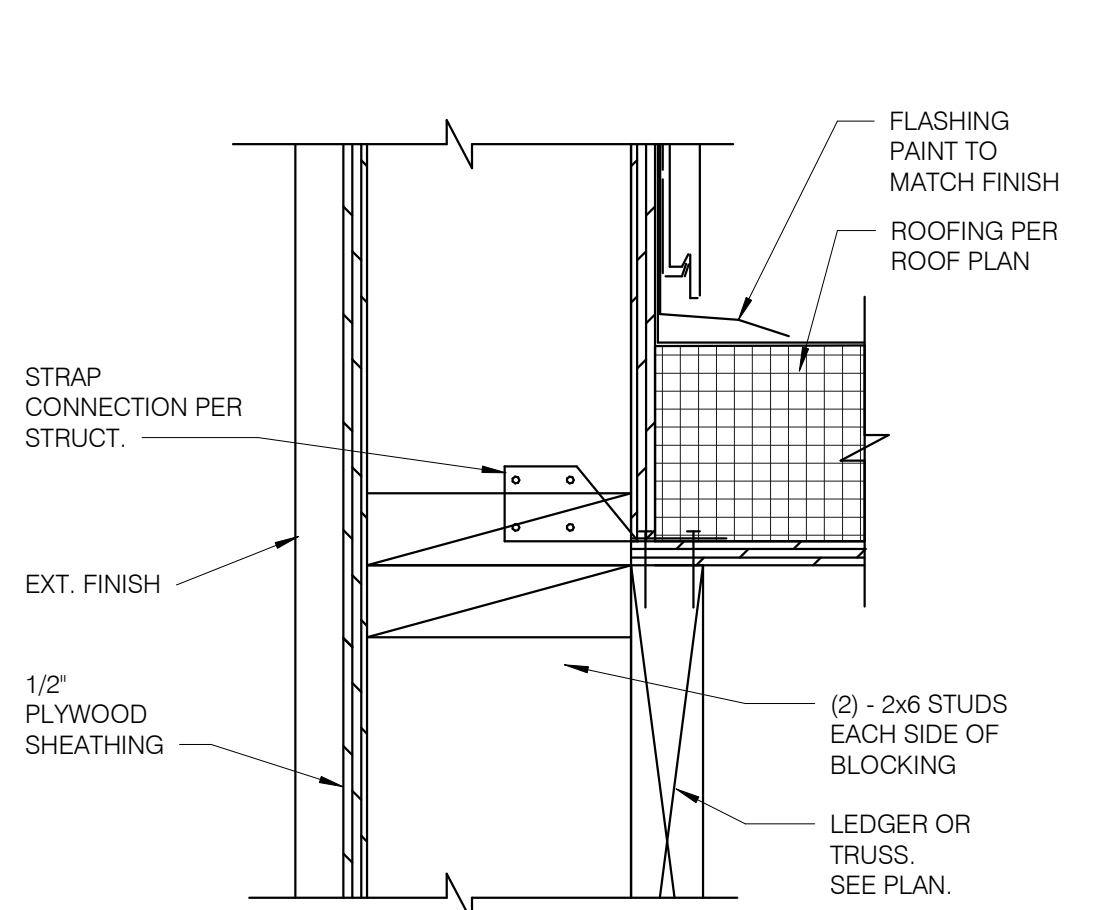
PIPE HOOD N.T.S. **6**



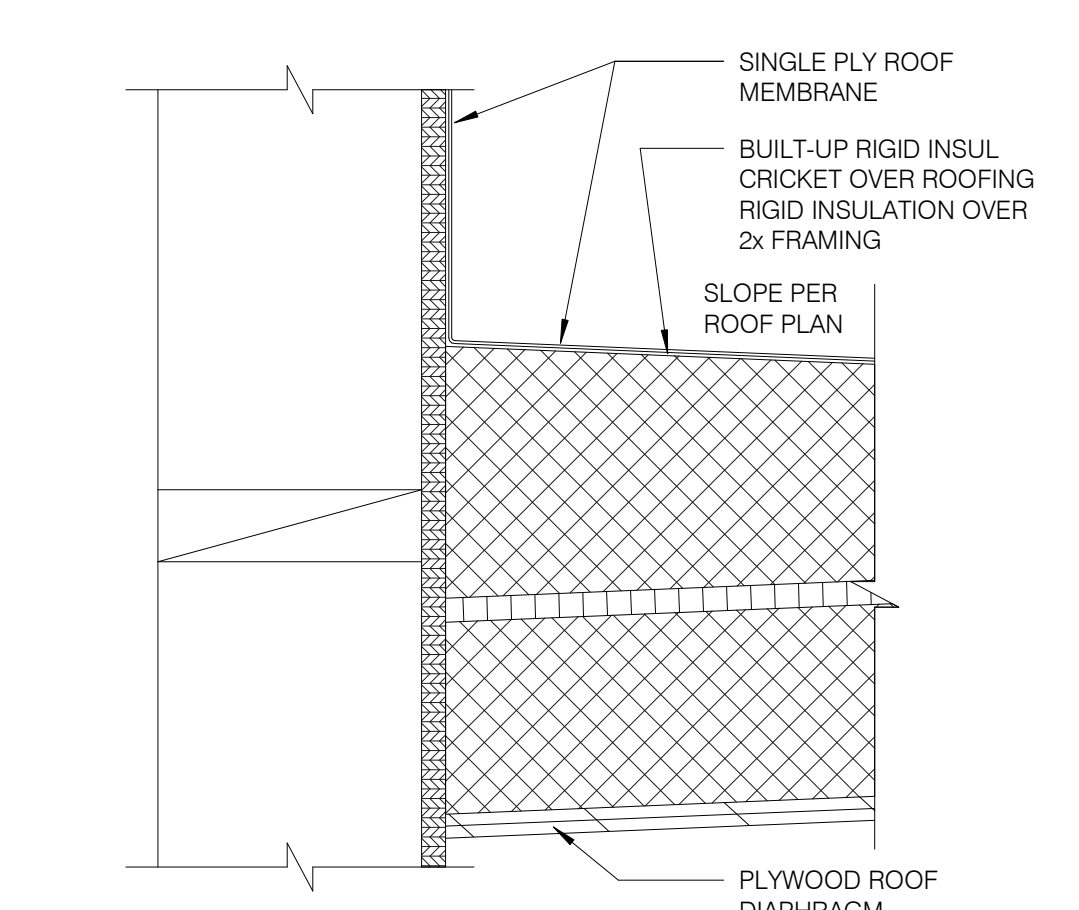
TOWER THIN BRICK TRANSITION N.T.S. **14**



EXHAUST FAN CURB N.T.S. **13**



CON. @ STUD AND @ BLOCKING 12" = 1'-0" **12**



CRICKET 3" = 1'-0" **11**

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BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

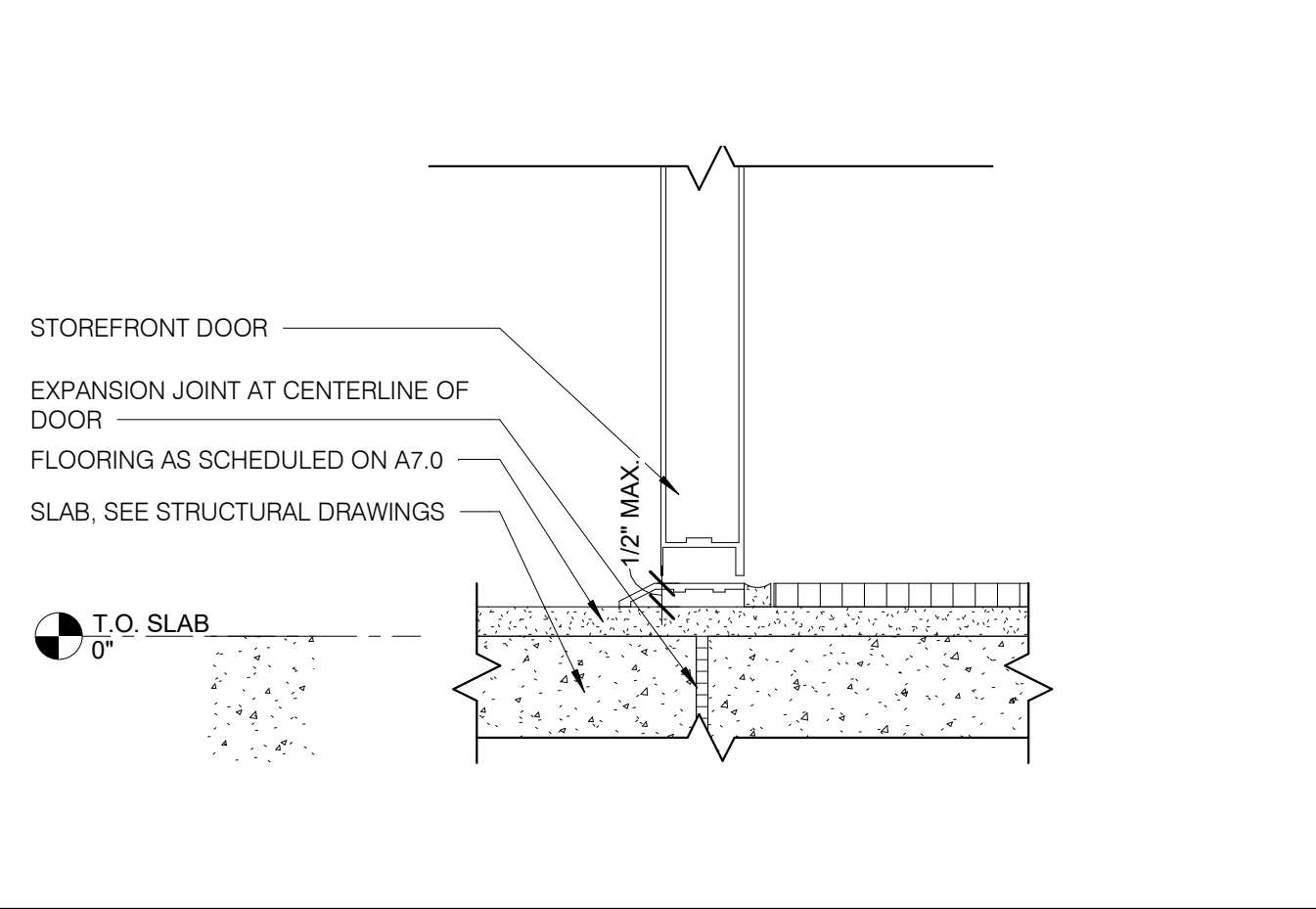
TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

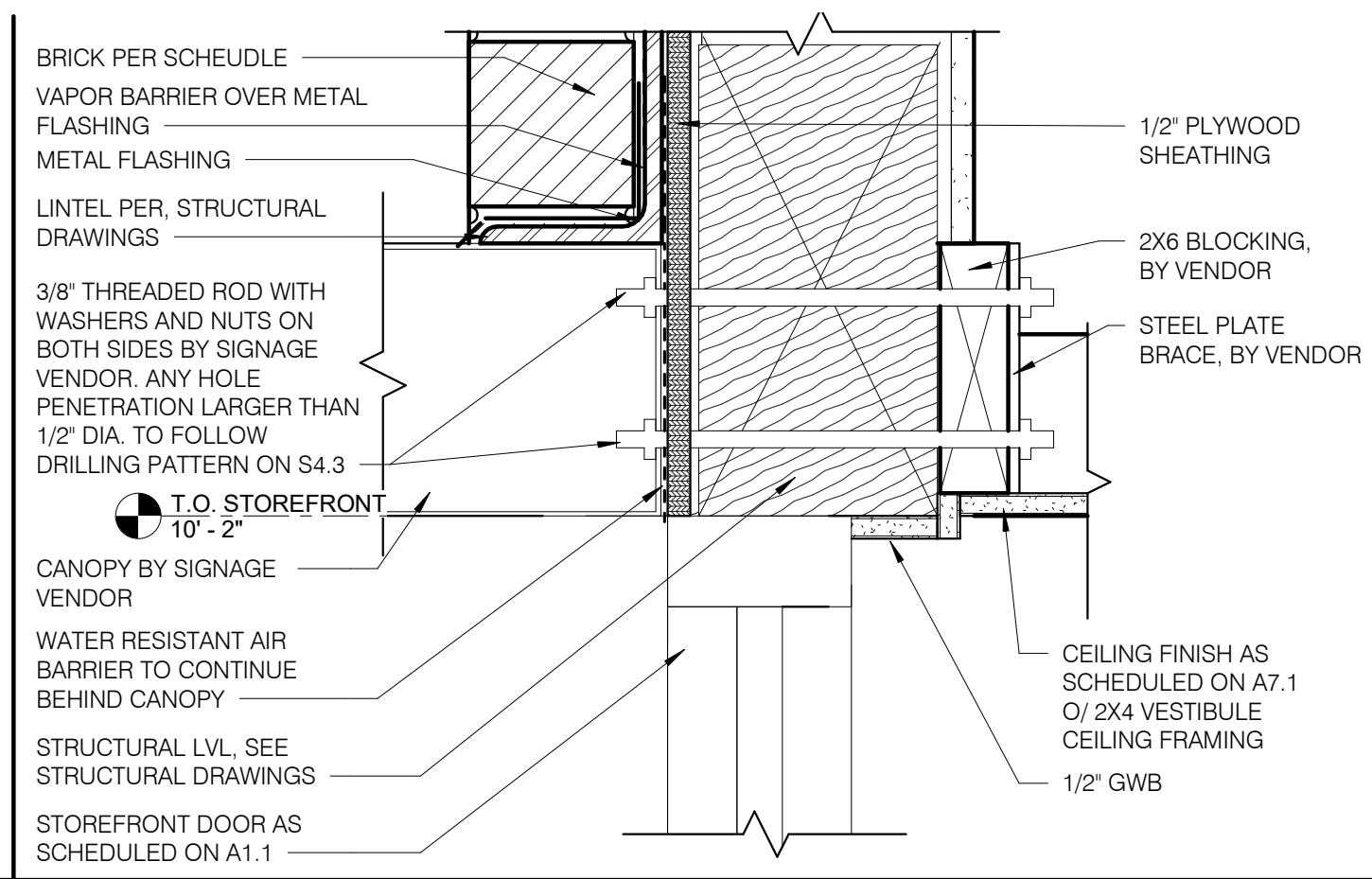
CONSTRUCTION DETAILS ROOF

A6.2

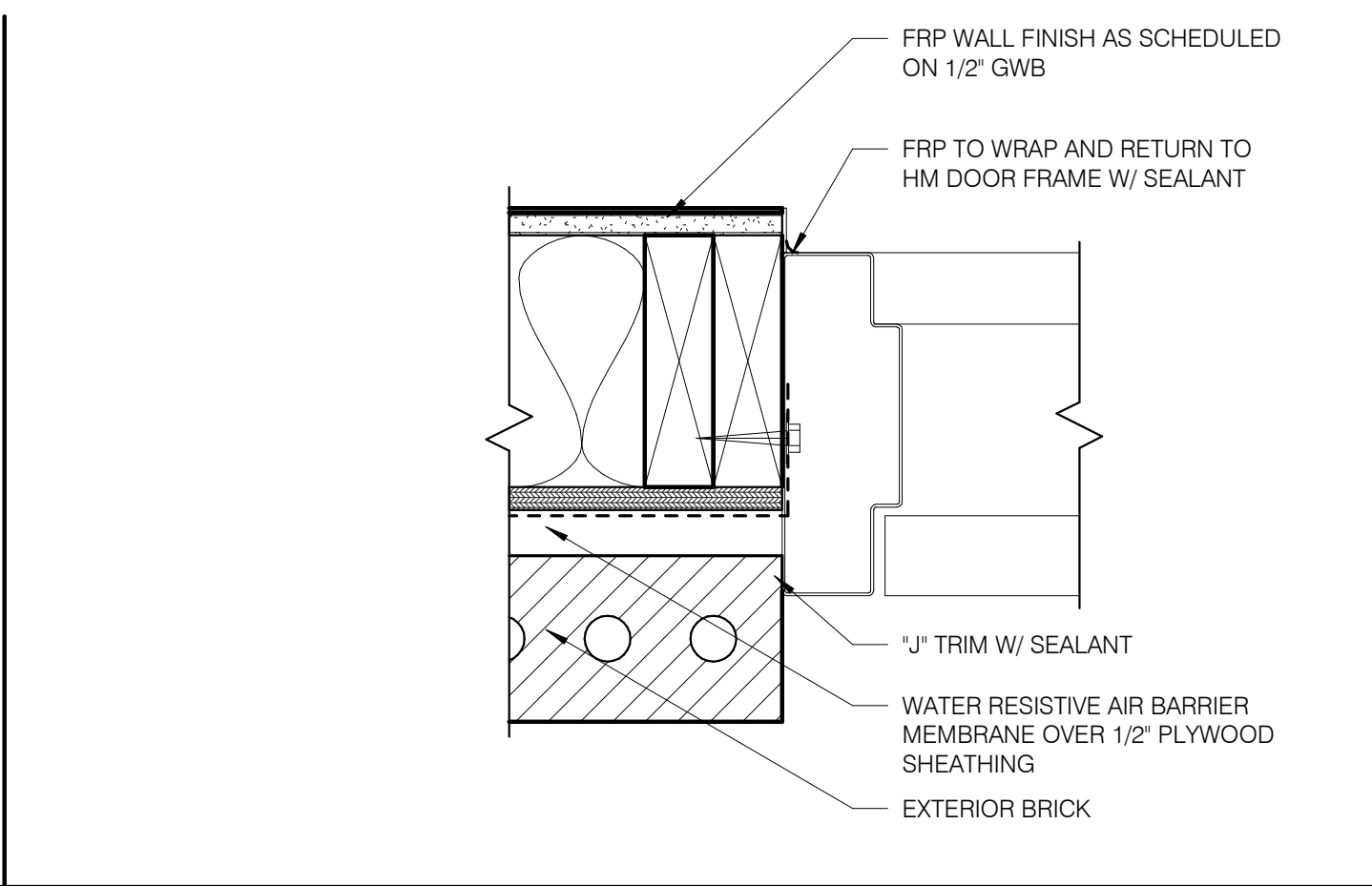
PLOT DATE: 8/7/2018 3:44:05 PM



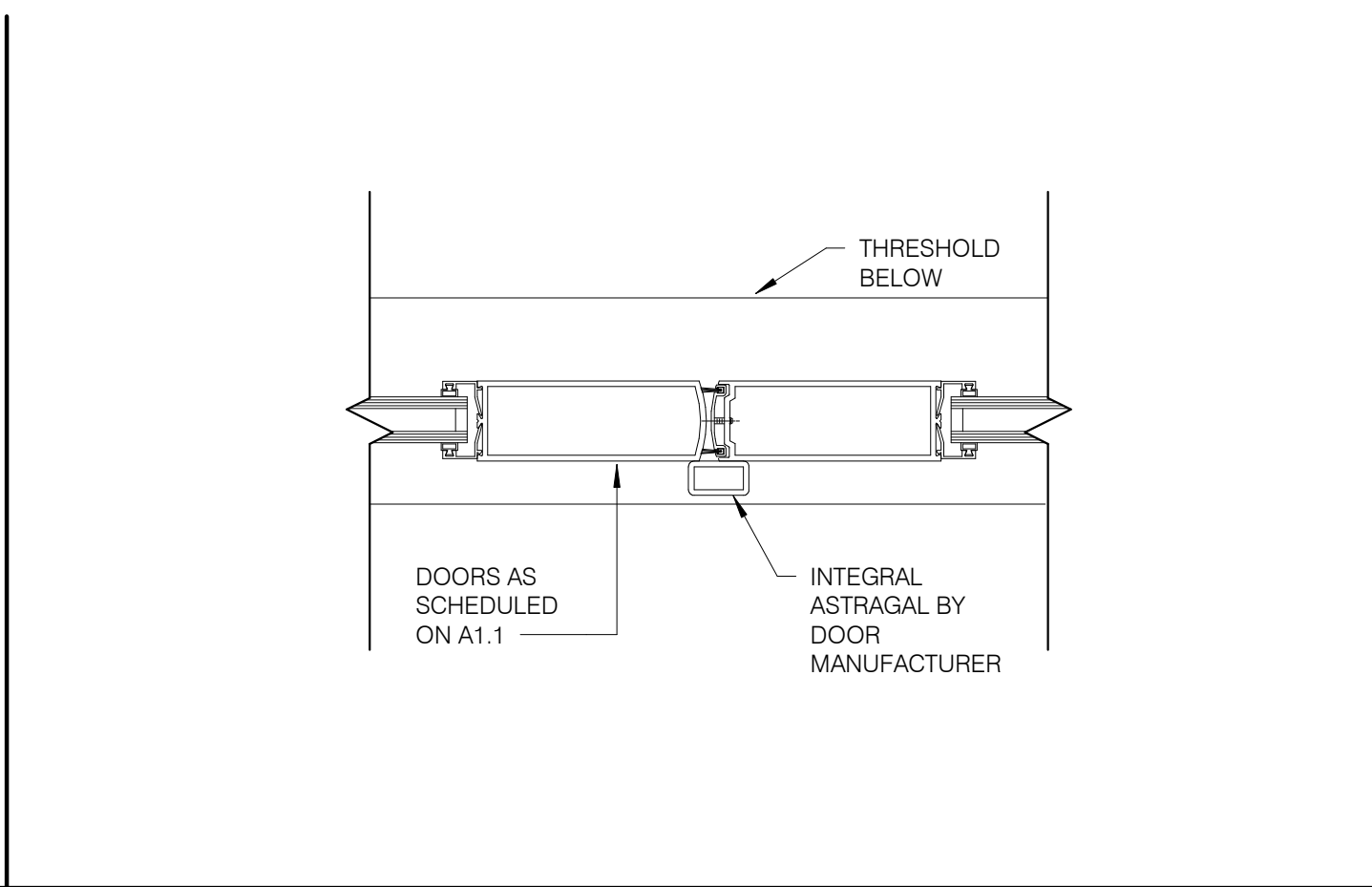
STOREFRONT DOOR THRESHOLD 3' - 1'-0" **4**



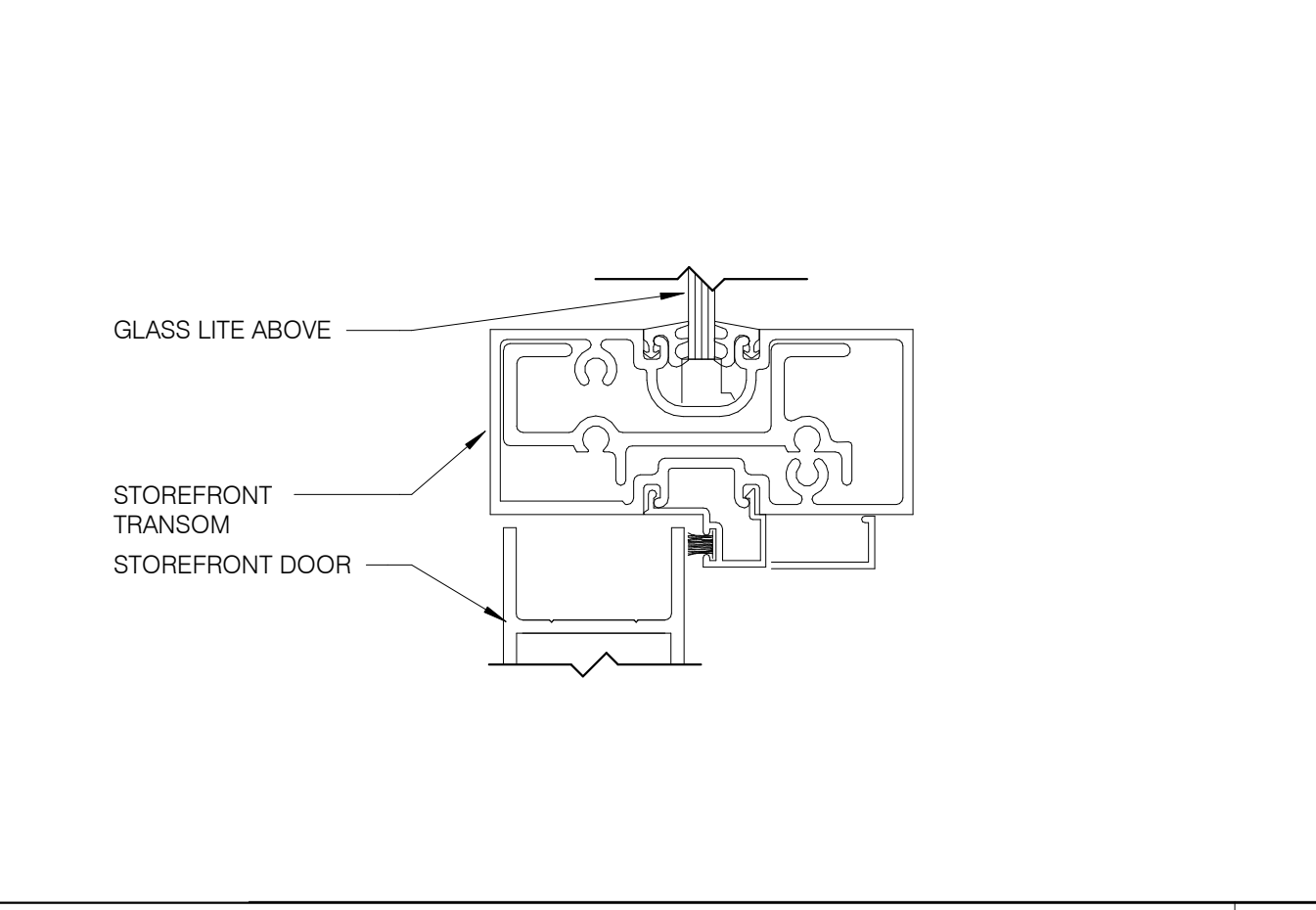
STOREFRONT HEAD 3' - 1'-0" **3**



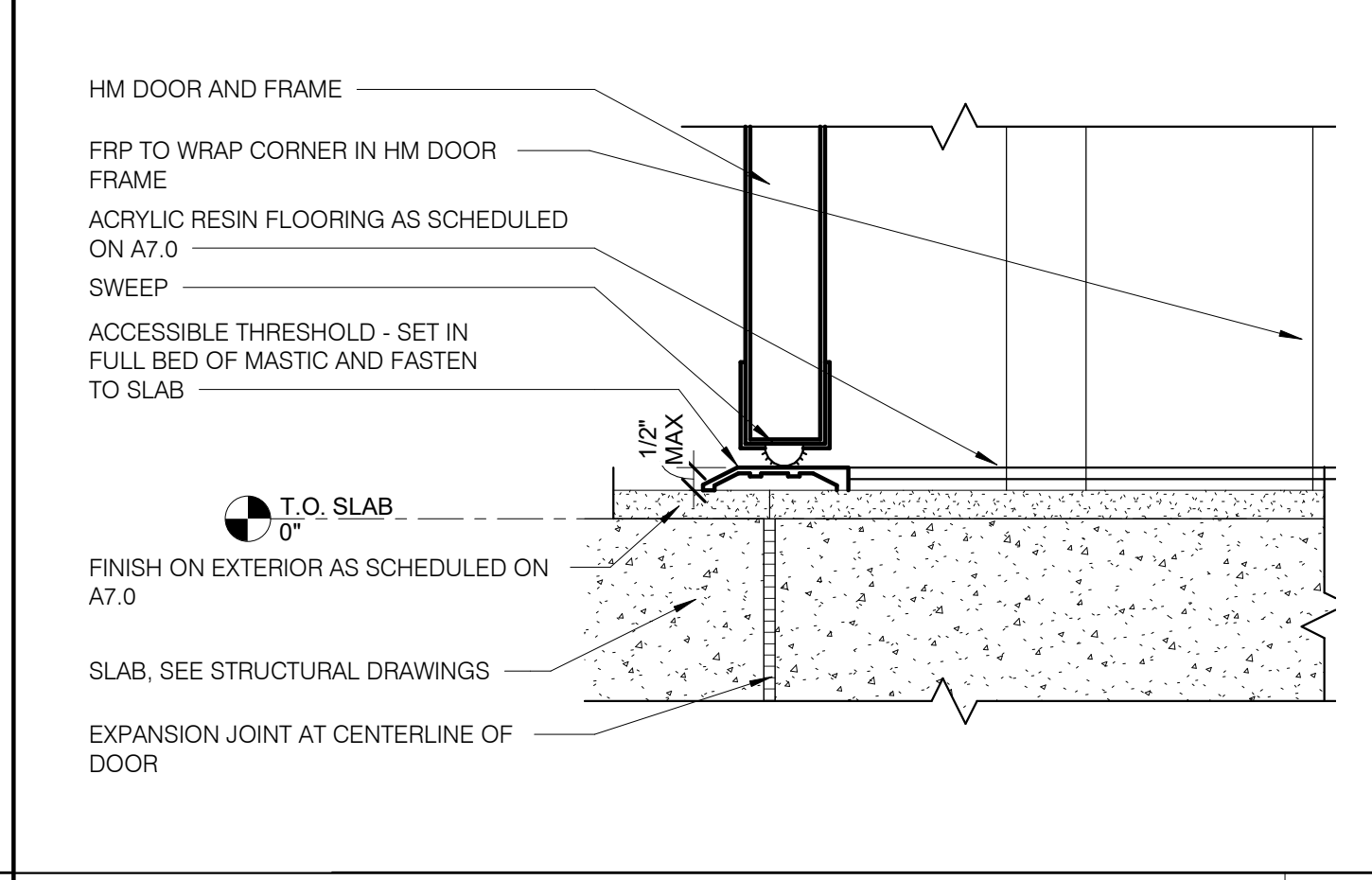
JAMB AT SERVICE DOOR 3' - 1'-0" **2**



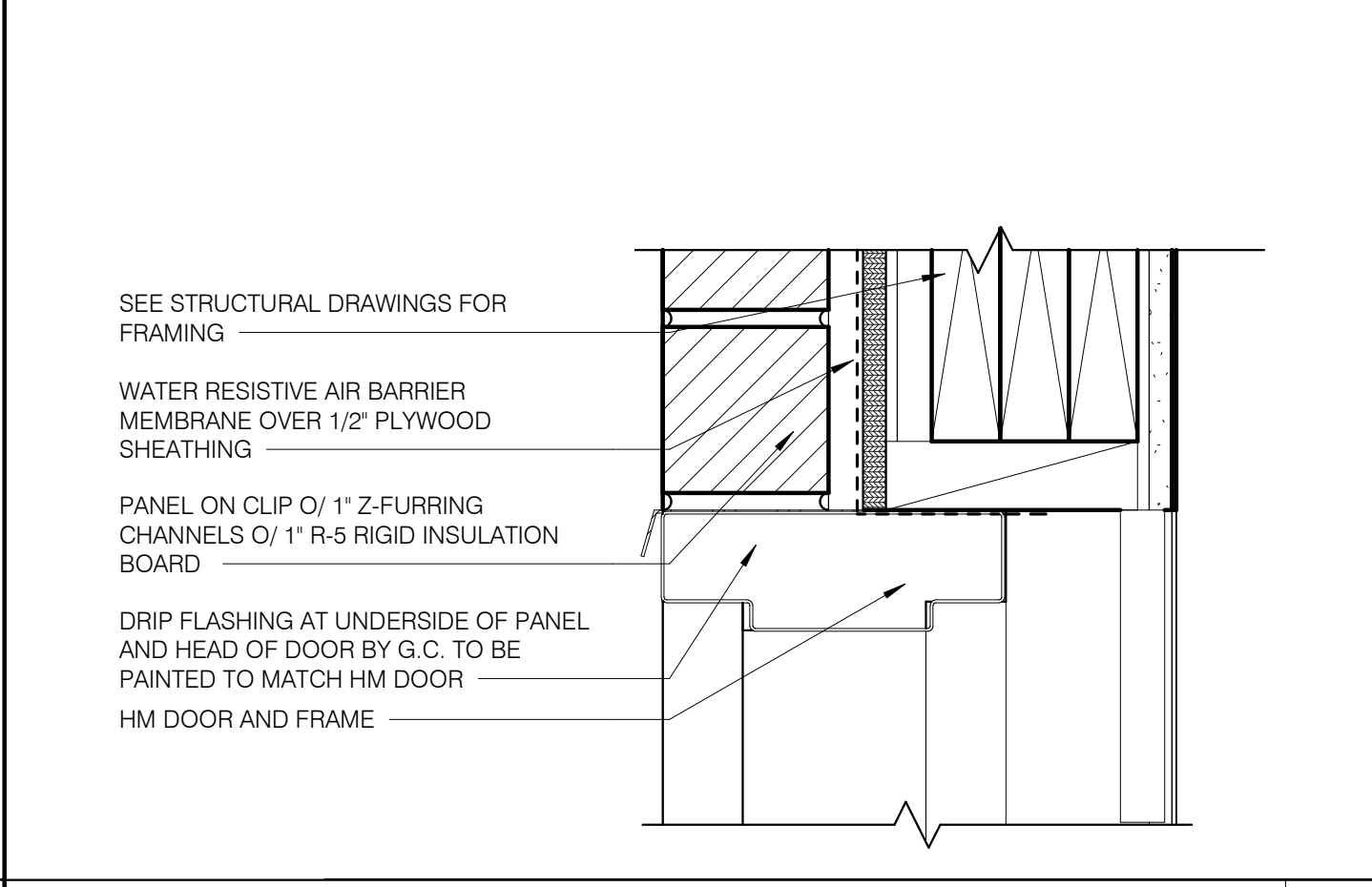
STOREFRONT JAMB AT ENTRANCE 3' - 1'-0" **1**



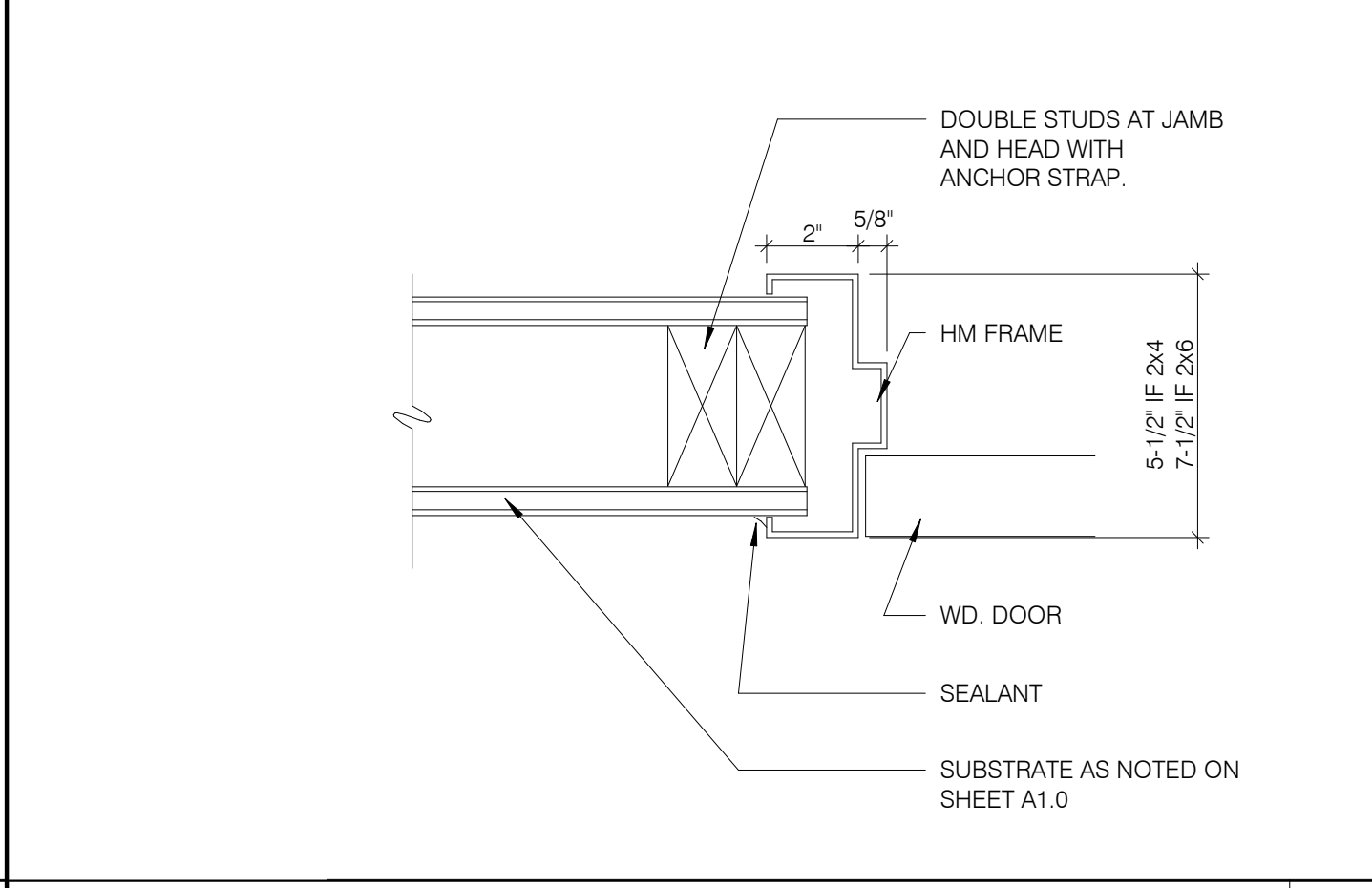
STOREFRONT DOOR HEAD AT TRANSOM 6' - 1'-0" **8**



SERVICE DOOR THRESHOLD 3' - 1'-0" **7**



SERVICE DOOR HEAD 3' - 1'-0" **6**



JAMB @ H.M. DOOR N.T.S. **5**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

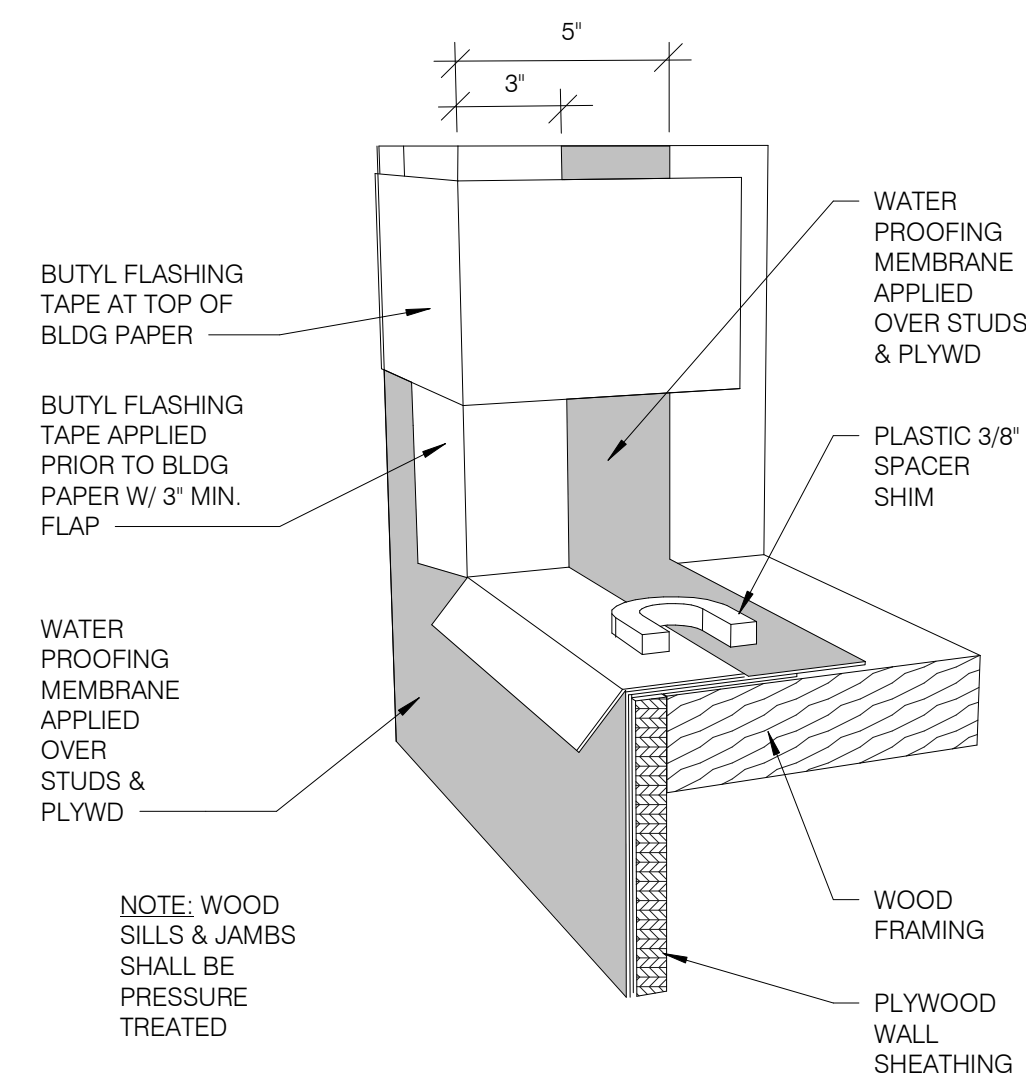
CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

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TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

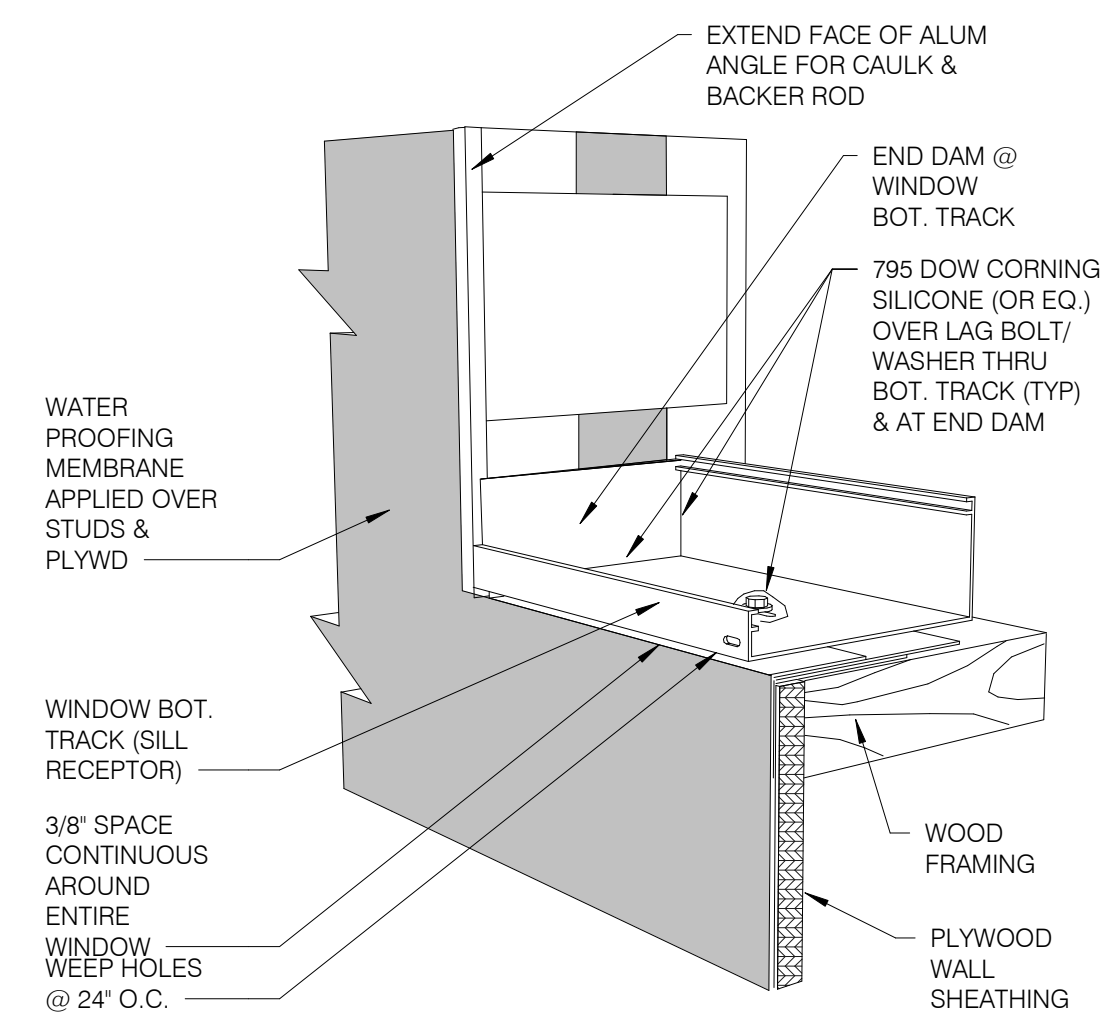
**CONSTRUCTION
DETAILS DOOR**

A6.3
PLOT DATE: 8/7/2018 3:44:06 PM



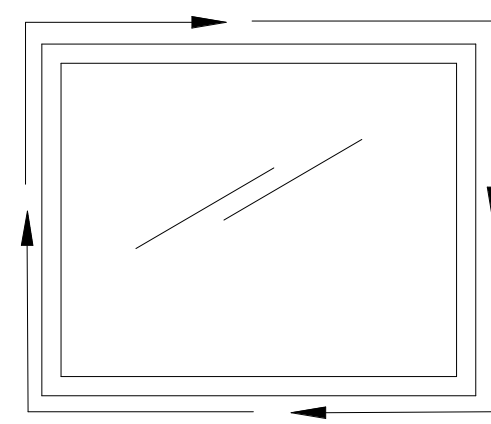
WATER PROOFING ROUGH OPENING

AFTER FRAMING WATER PROOFING MEMBRANE PER FIBER CEMENT PANEL MANUFACTURER RECOMMENDATIONS. ADD FLASHING TAPE AROUND THE ROUGH OPENING FOR THE WINDOW AND DOOR OPENING.



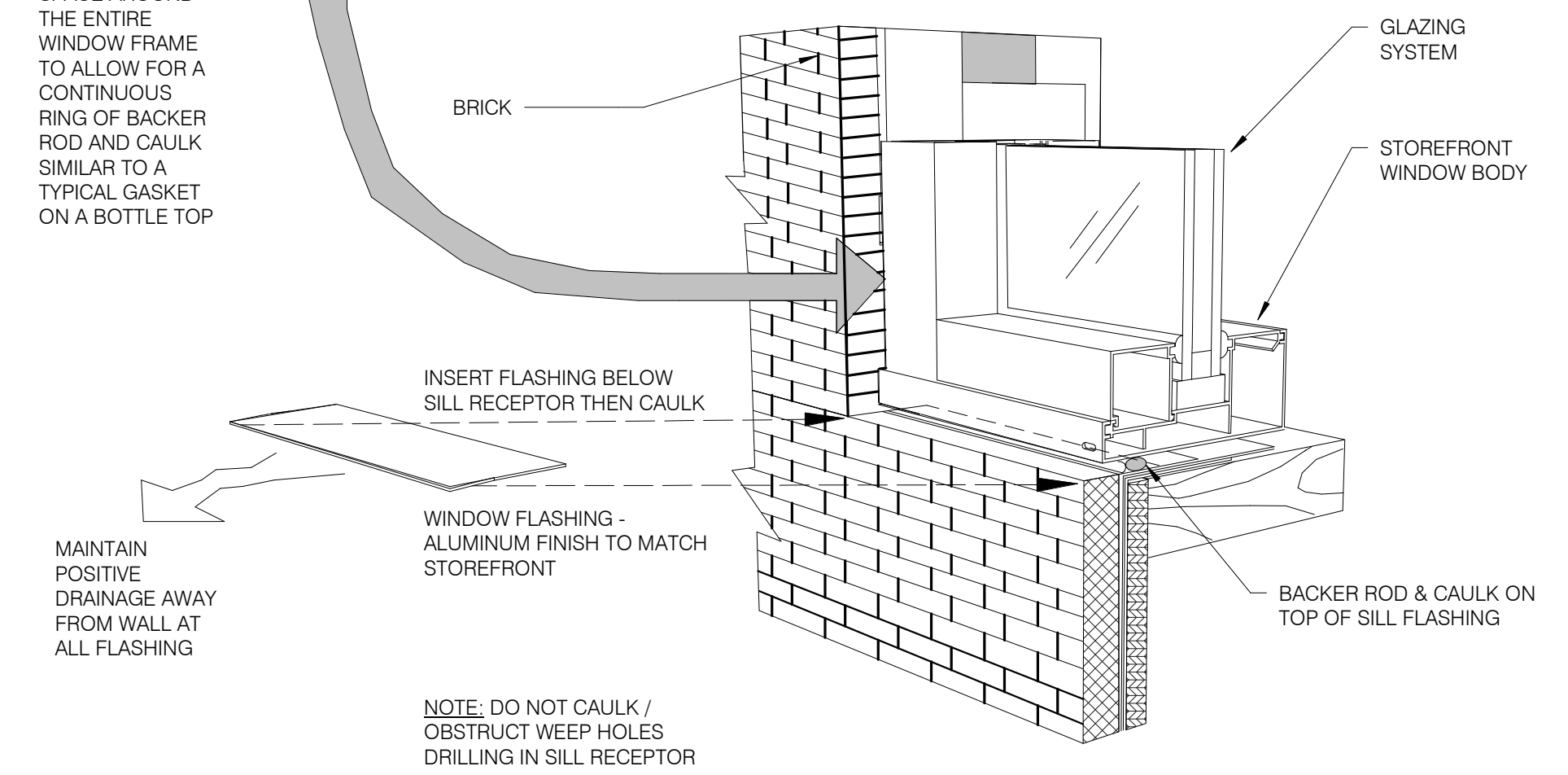
ADD SILL RECEPTOR AND END DAM

THIS DIAGRAM SHOWS THE APPLICATION OF SILL RECEPTOR AND WATERPROOFING MEMBRANE. 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

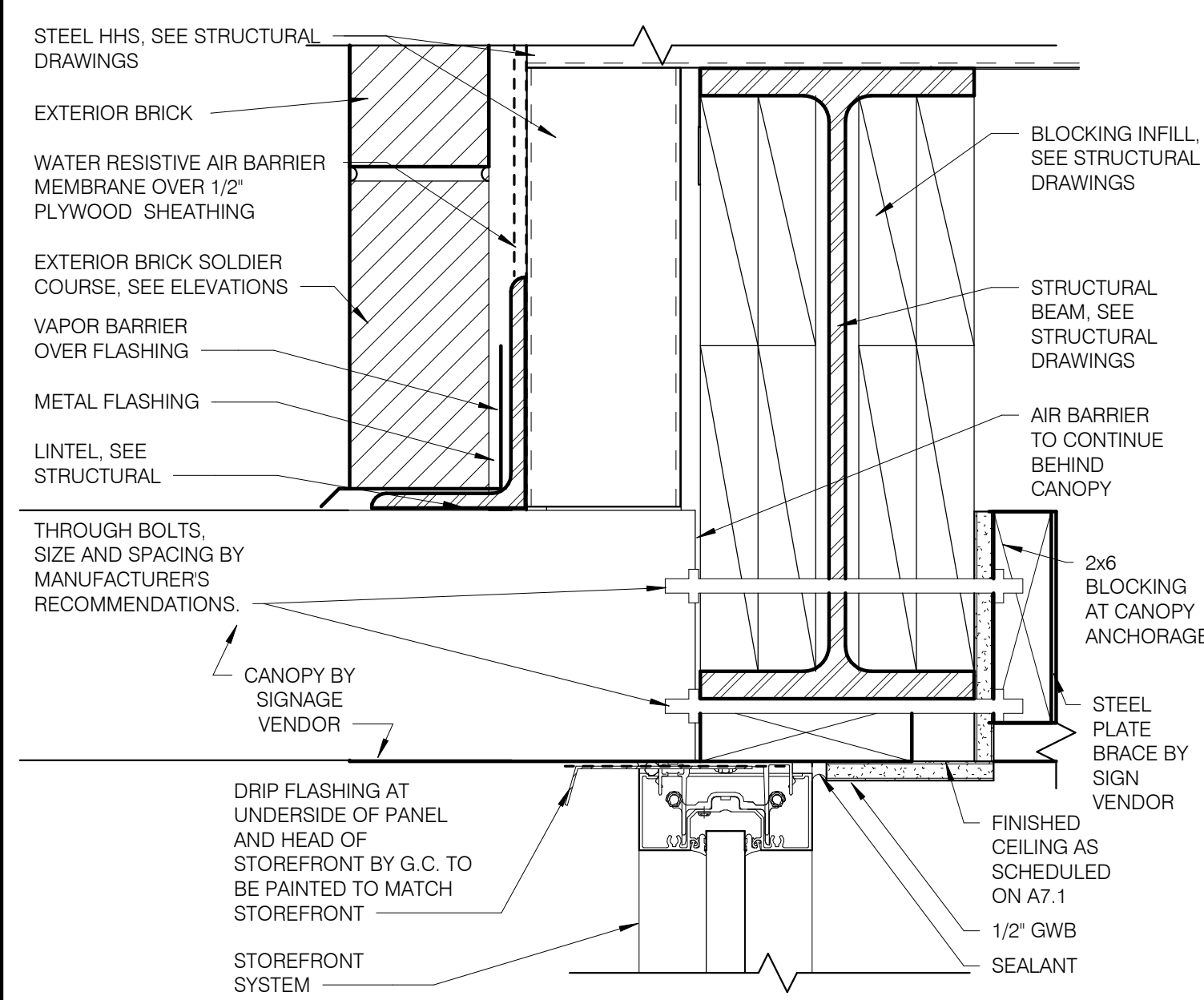


COMPLETING WINDOW SYSTEM

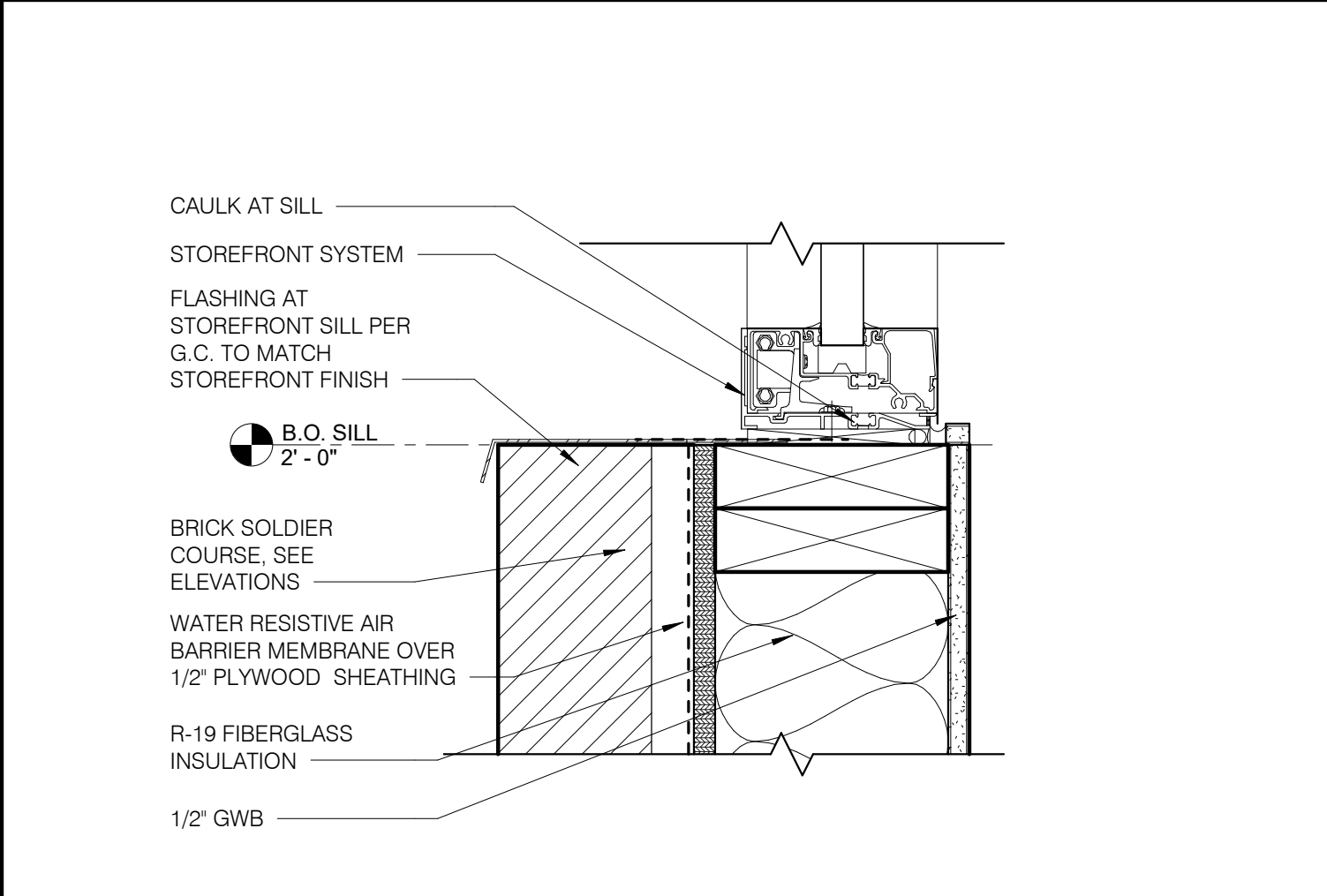
SET STOREFRONT WINDOW, APPLY FIBER CEMENT PANEL SYSTEM AND THEN ADD WINDOW FLASHING OVER TOP OF FIBER CEMENT PANEL AT WINDOW SILL

TYPICAL WINDOW WALL WATER PROOFING

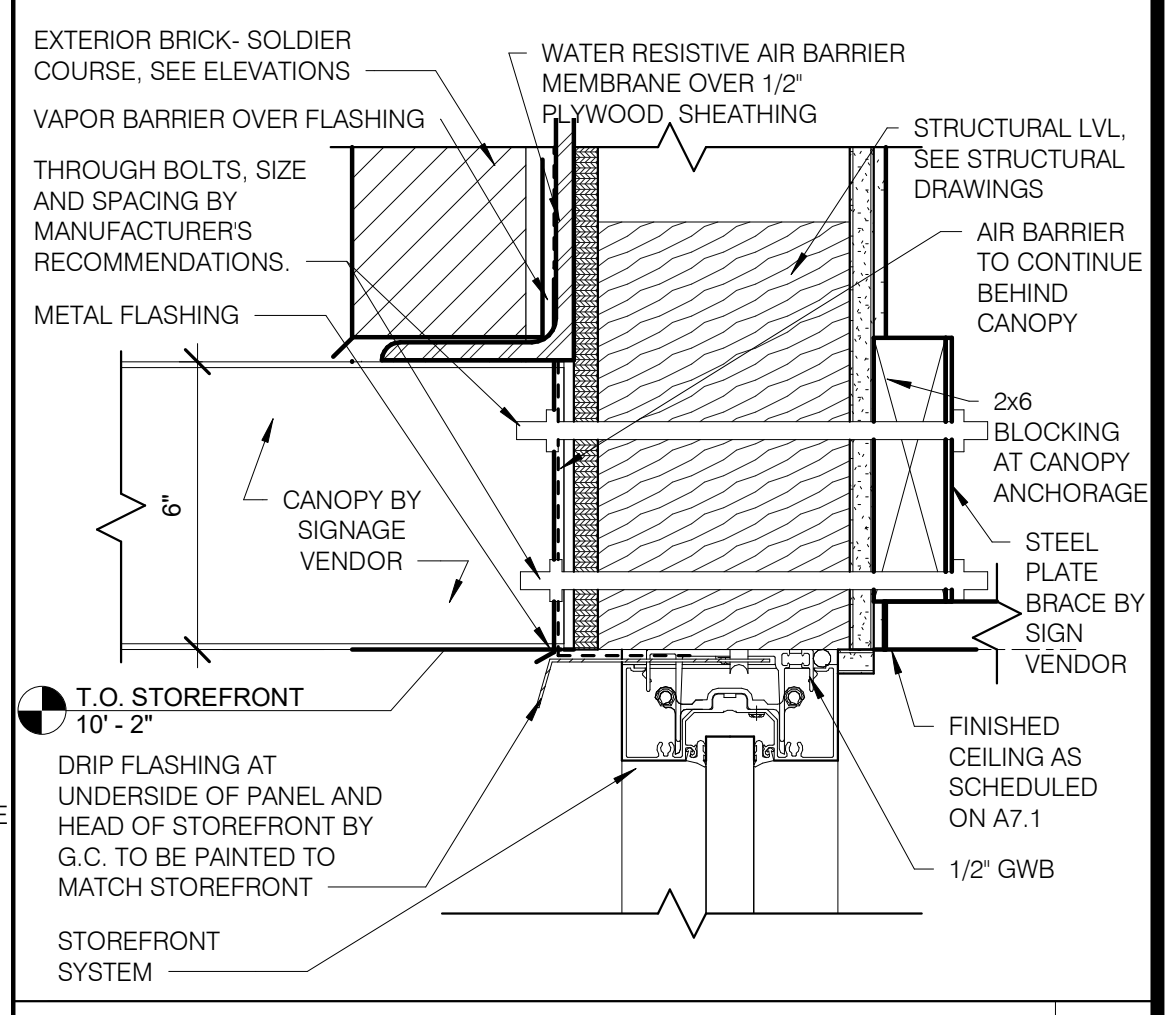
N.T.S. **8**



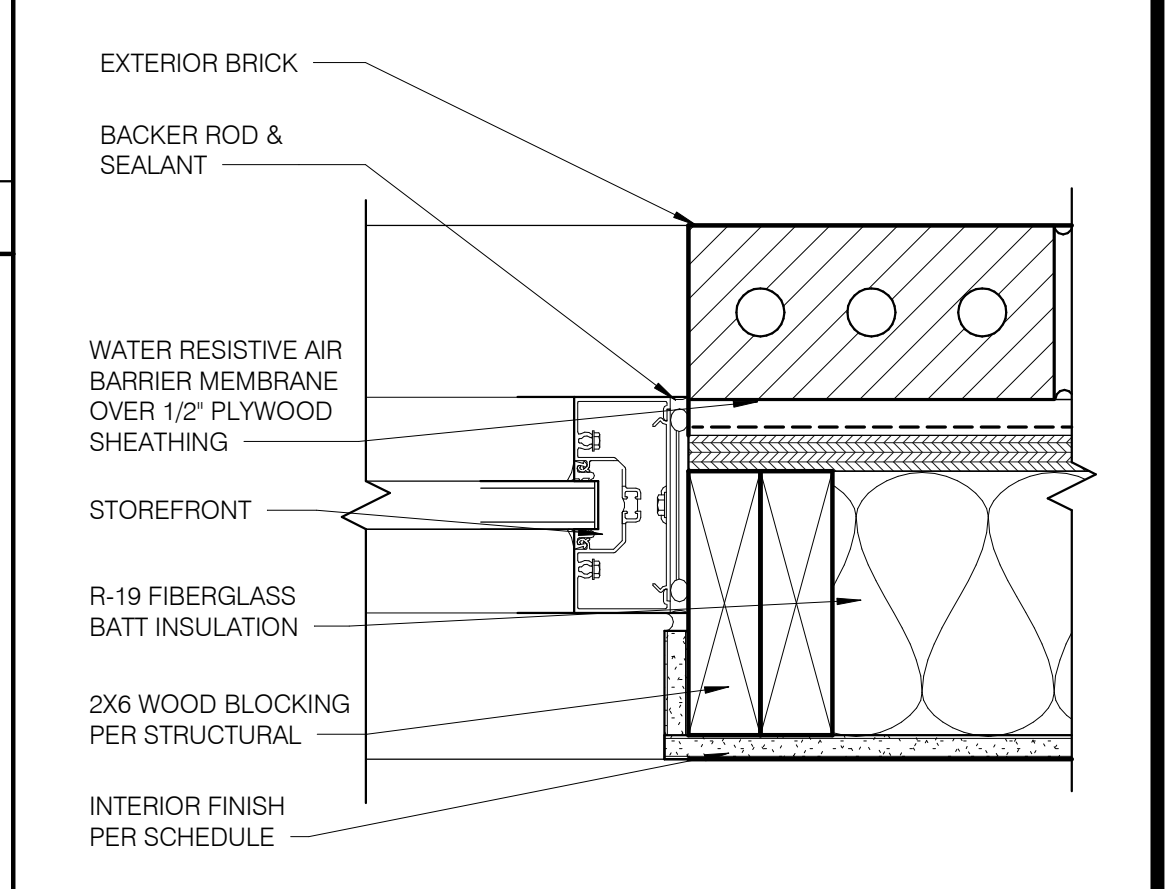
STOREFRONT HEAD AT DRIVE-THRU WINDOW N.T.S. **2**



STOREFRONT SILL AT DINING 3" = 1'-0" **4**



STOREFRONT HEAD AT DINING 3" = 1'-0" **1**



STOREFRONT JAMB DETAILS 3" = 1'-0" **3**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

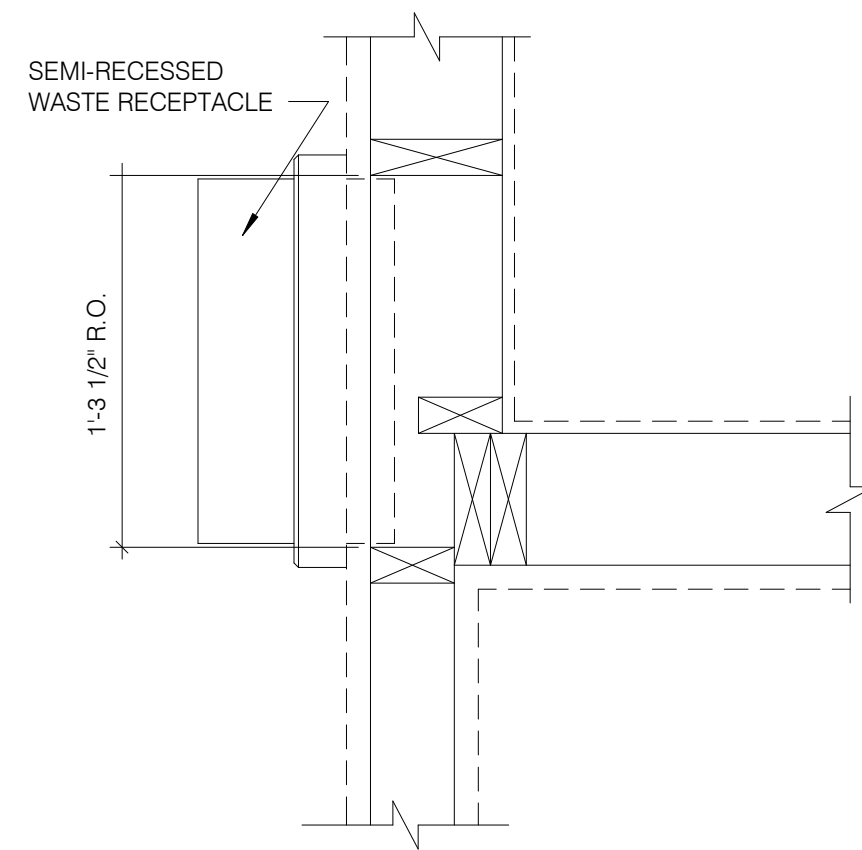
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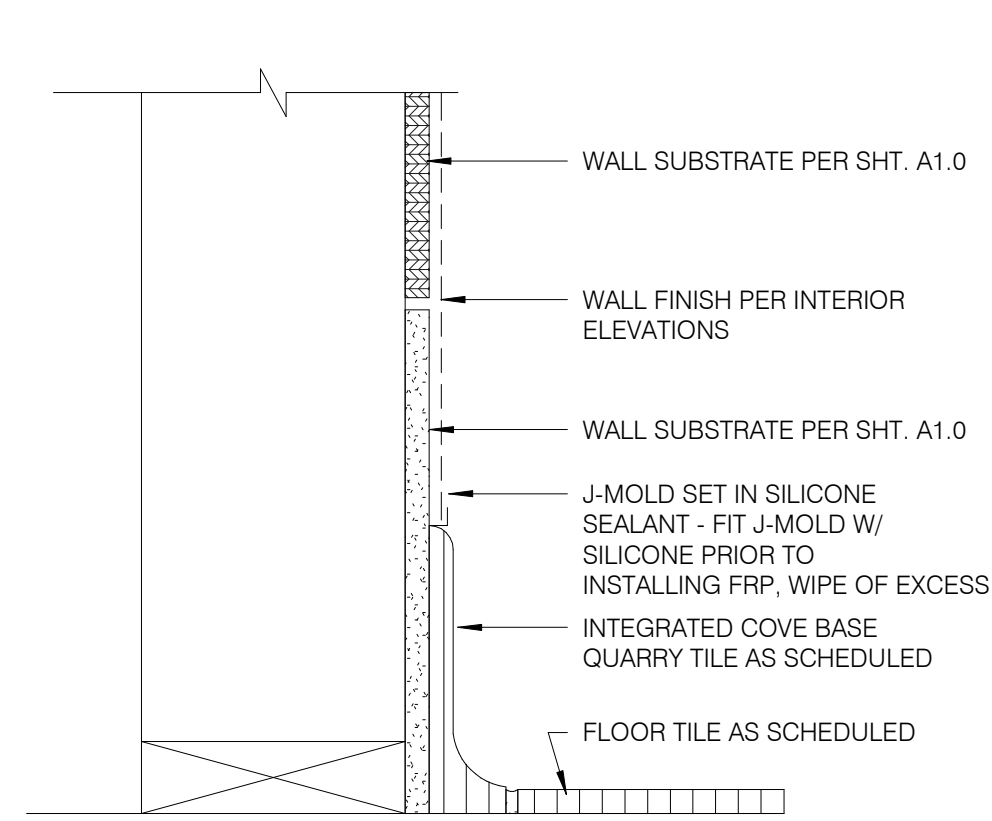
CONSTRUCTION DETAILS WINDOW

A6.4

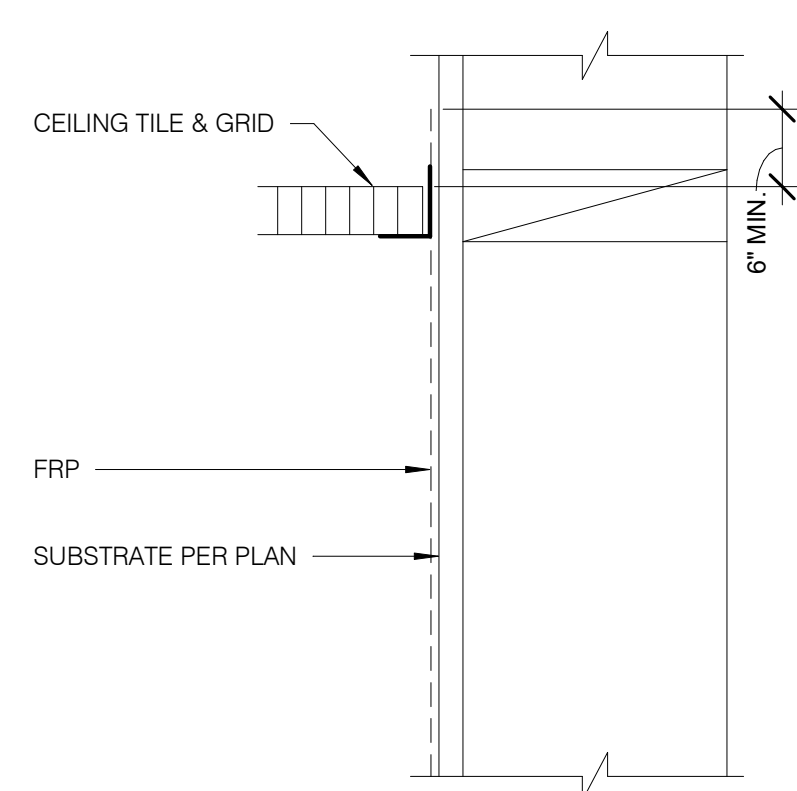
PLOT DATE: 8/7/2018 3:44:09 PM



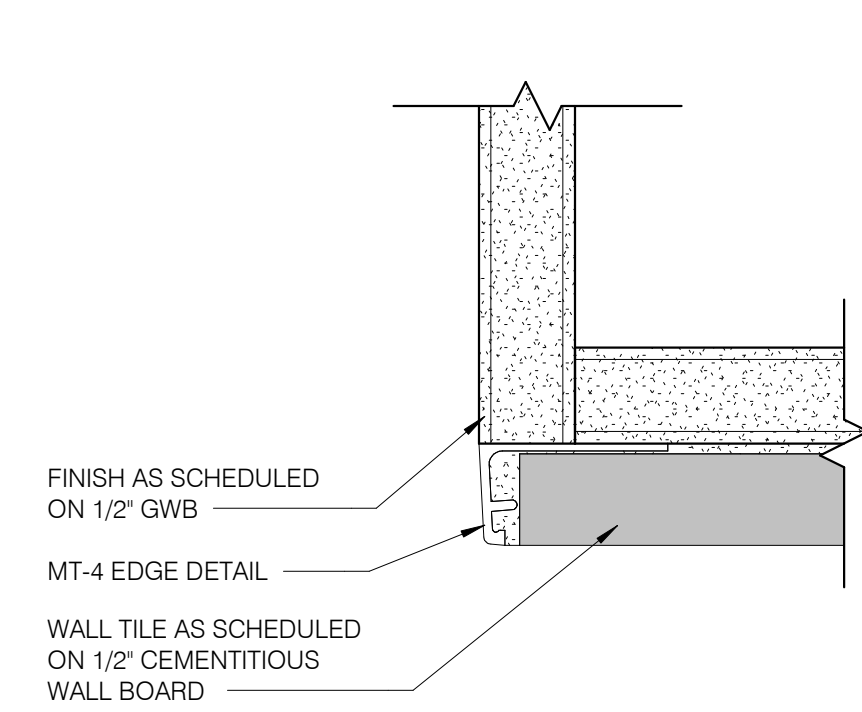
SEMI-RECESSED WASTE RECEPT N.T.S. **5**



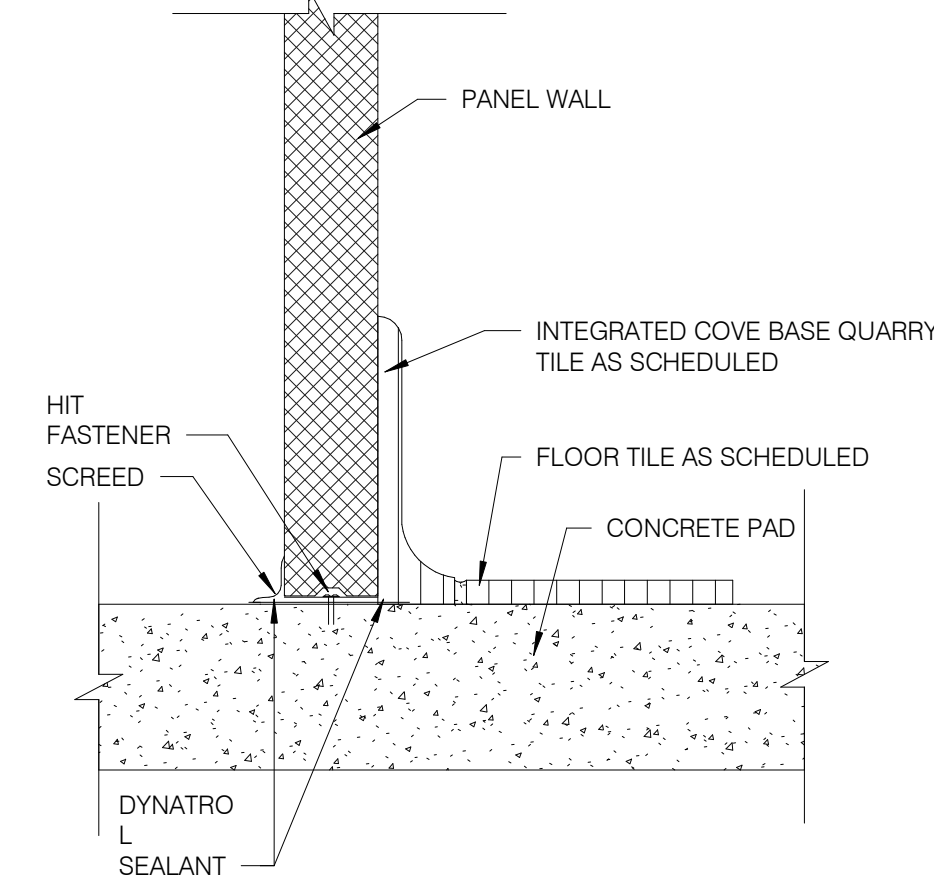
KITCHEN FINISH @ BASE N.T.S. **4**



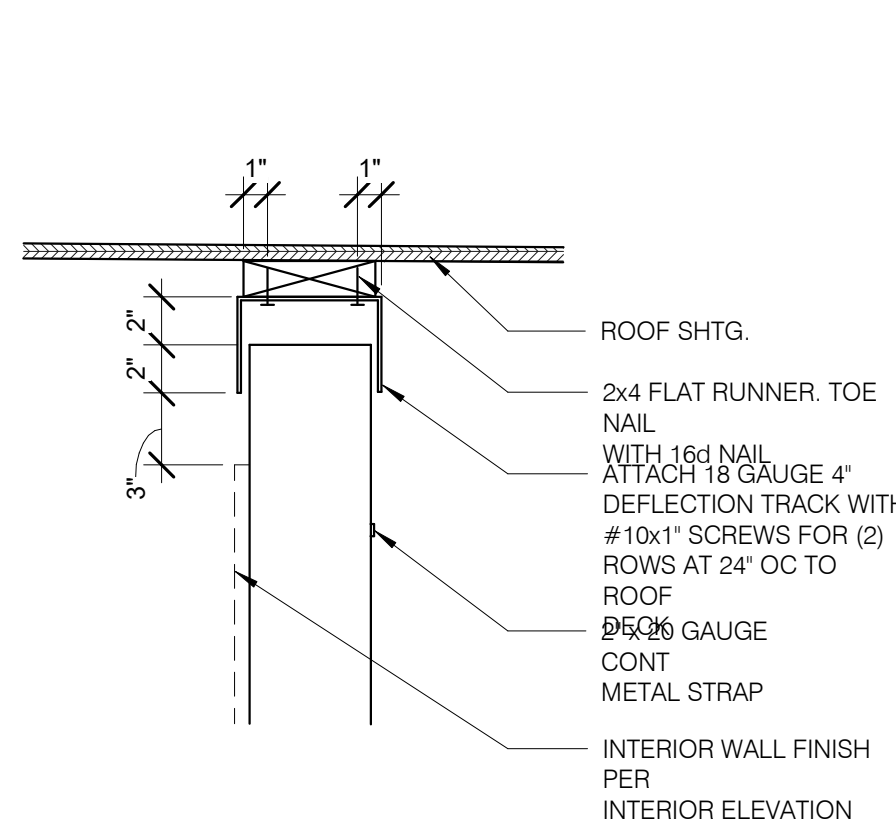
KITCHEN FINISH @ CEILING N.T.S. **3**



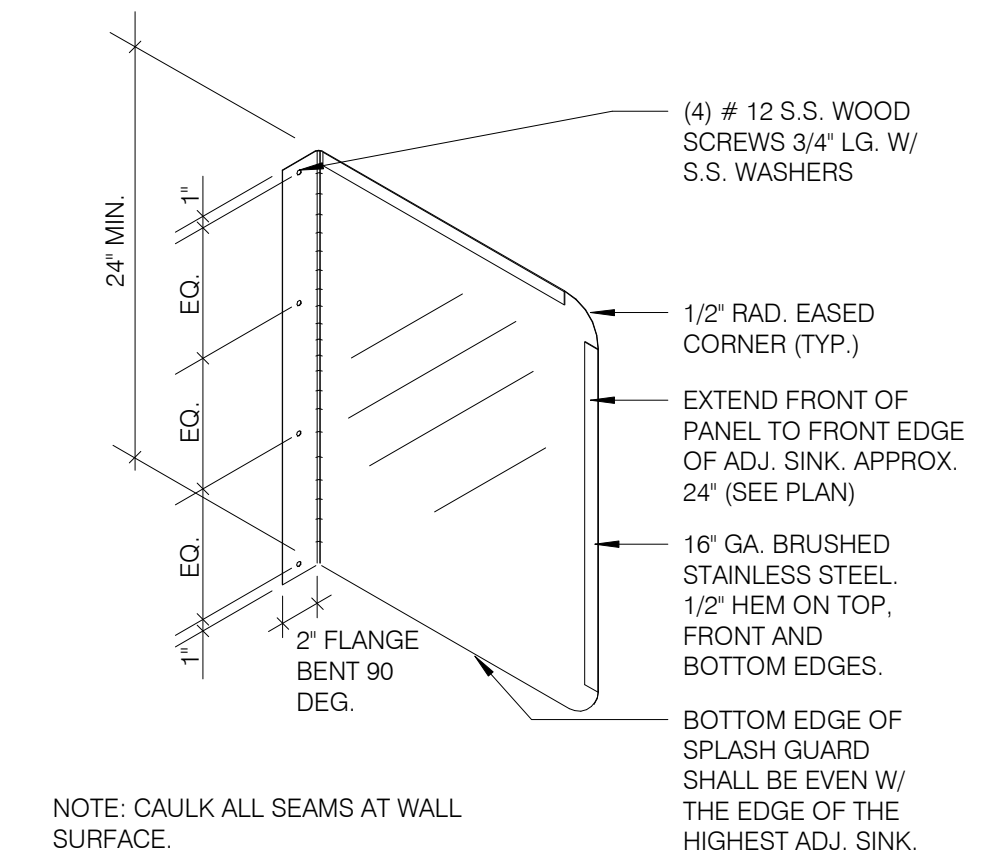
DETAIL AT EDGE OF TILE WALL 12" = 1'-0" **2**



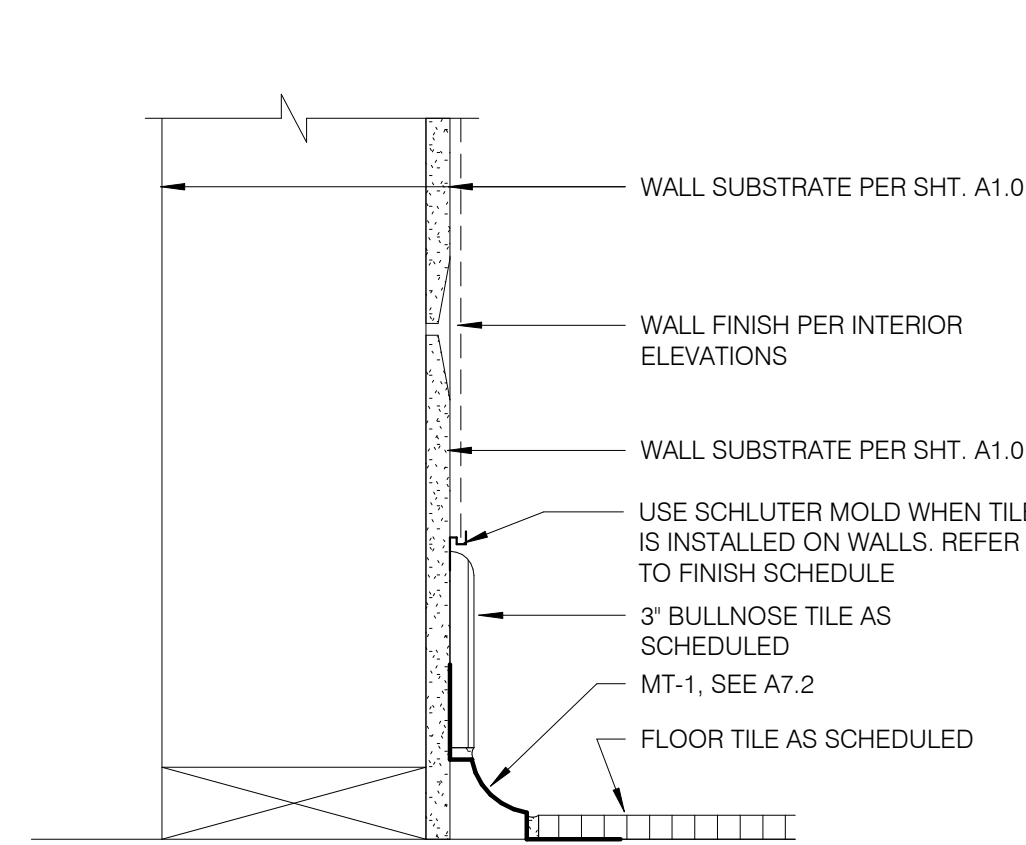
WALK-IN BASE N.T.S. **1**



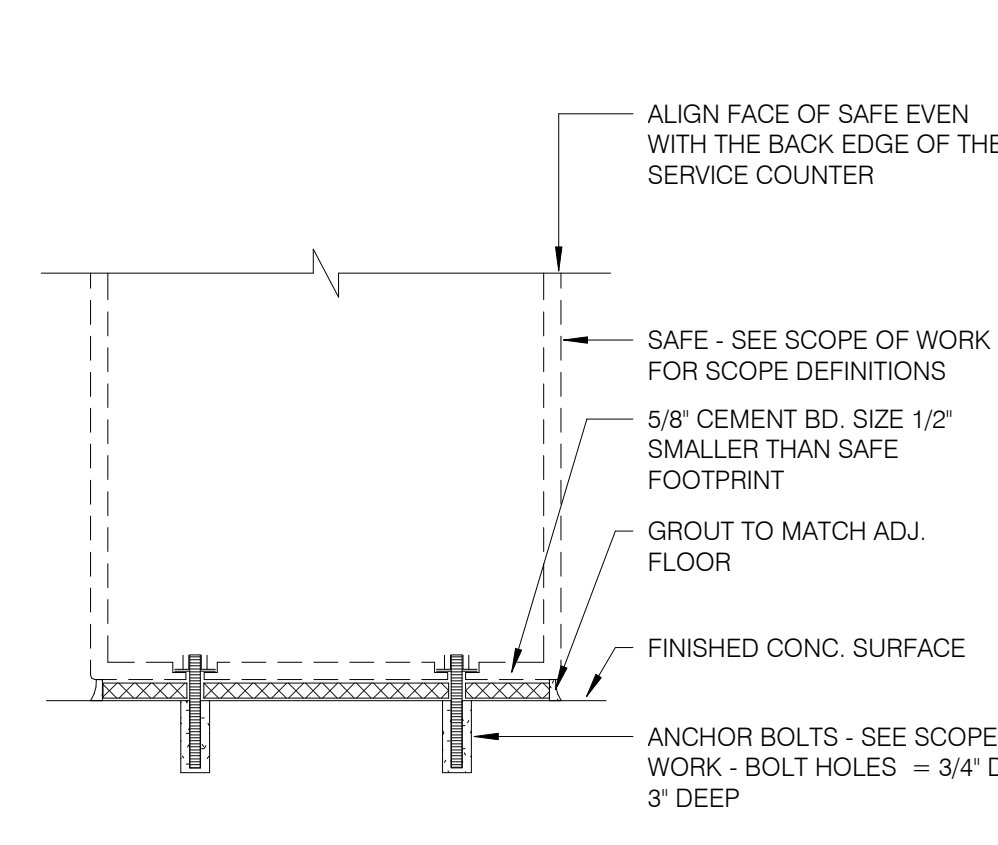
DEFLECTION TRACK DETAIL N.T.S. **10**



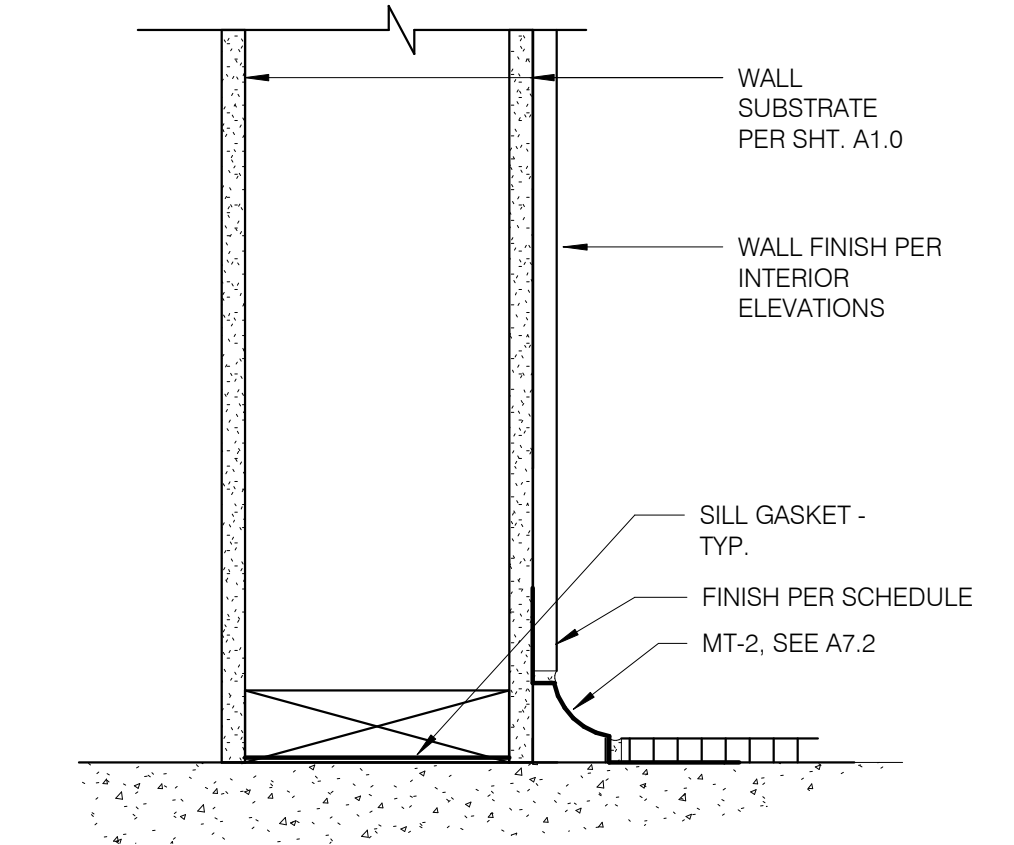
SPLASH GUARD N.T.S. **9**



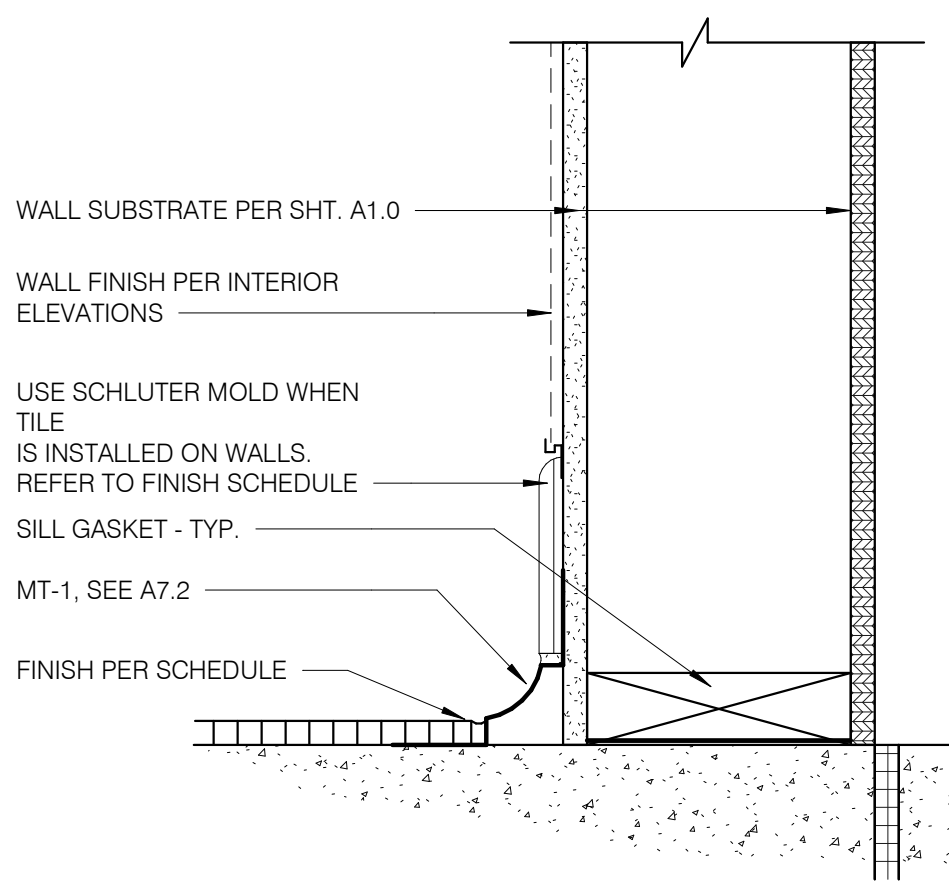
BASE @ DINING ROOM INT. WALL N.T.S. **8**



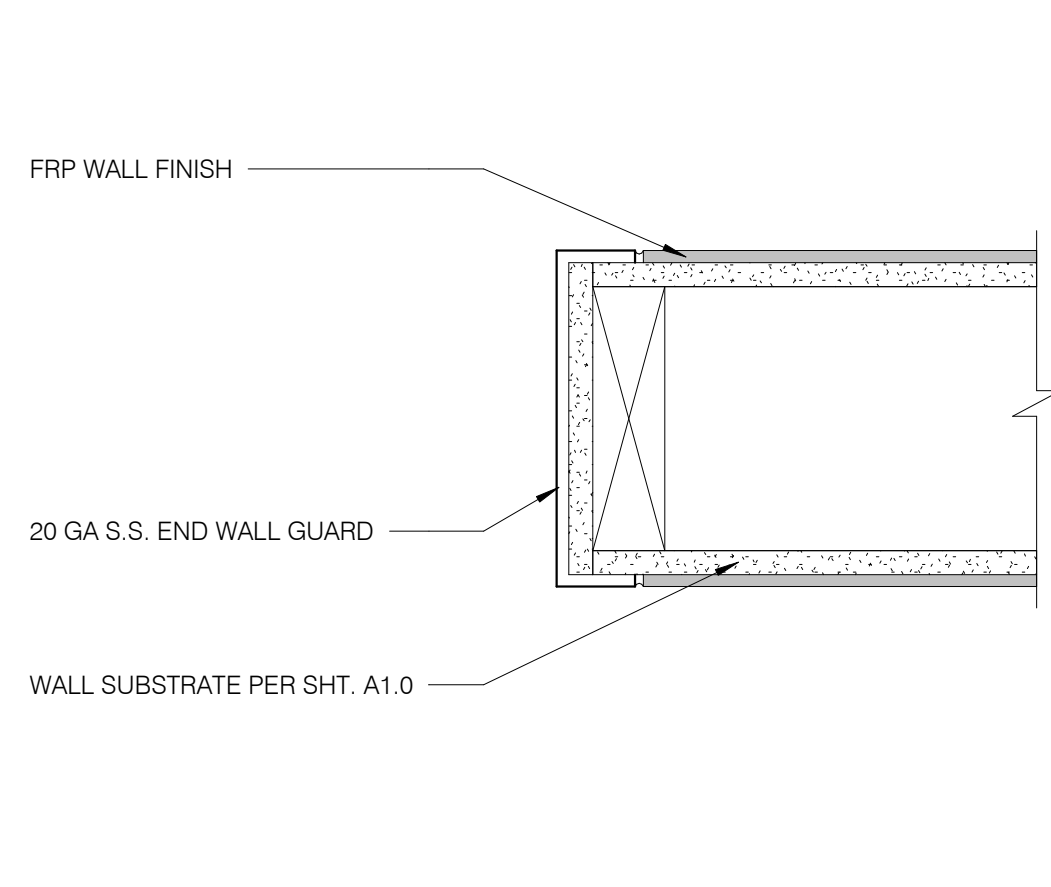
SAFE PEDESTAL N.T.S. **7**



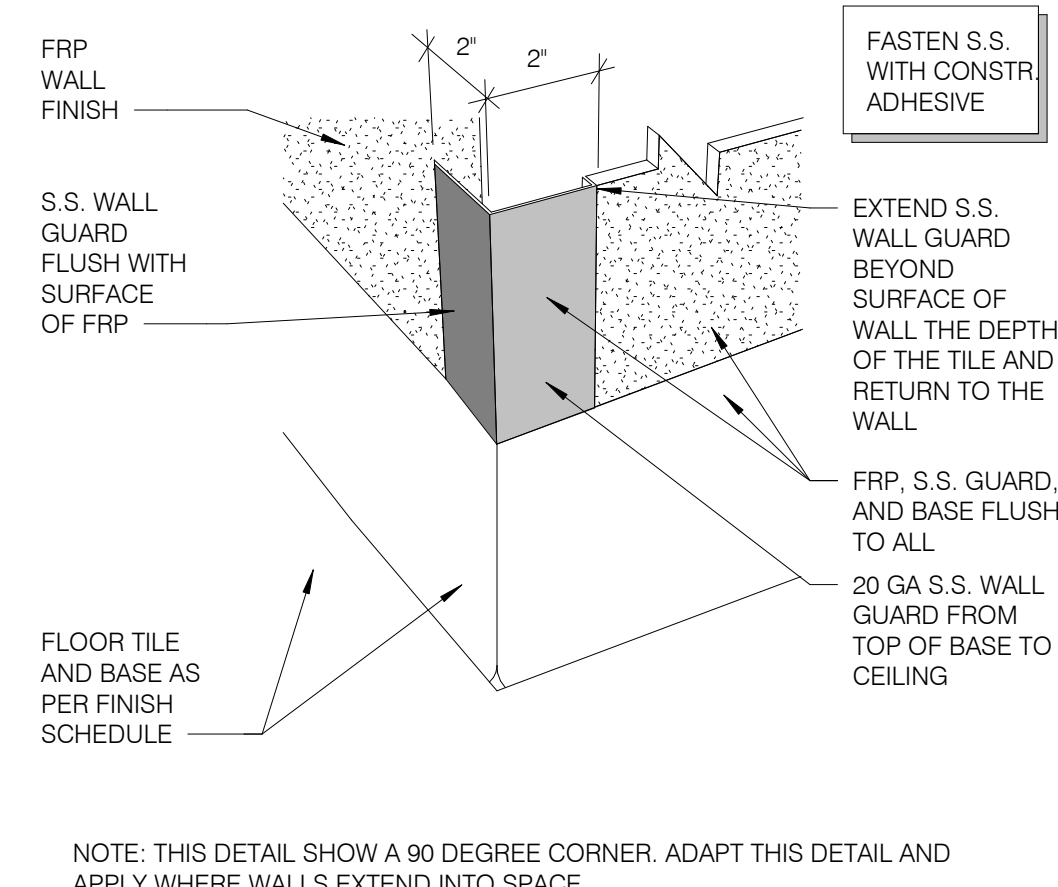
BASE @ SAUCE AND SODA WALL N.T.S. **6**



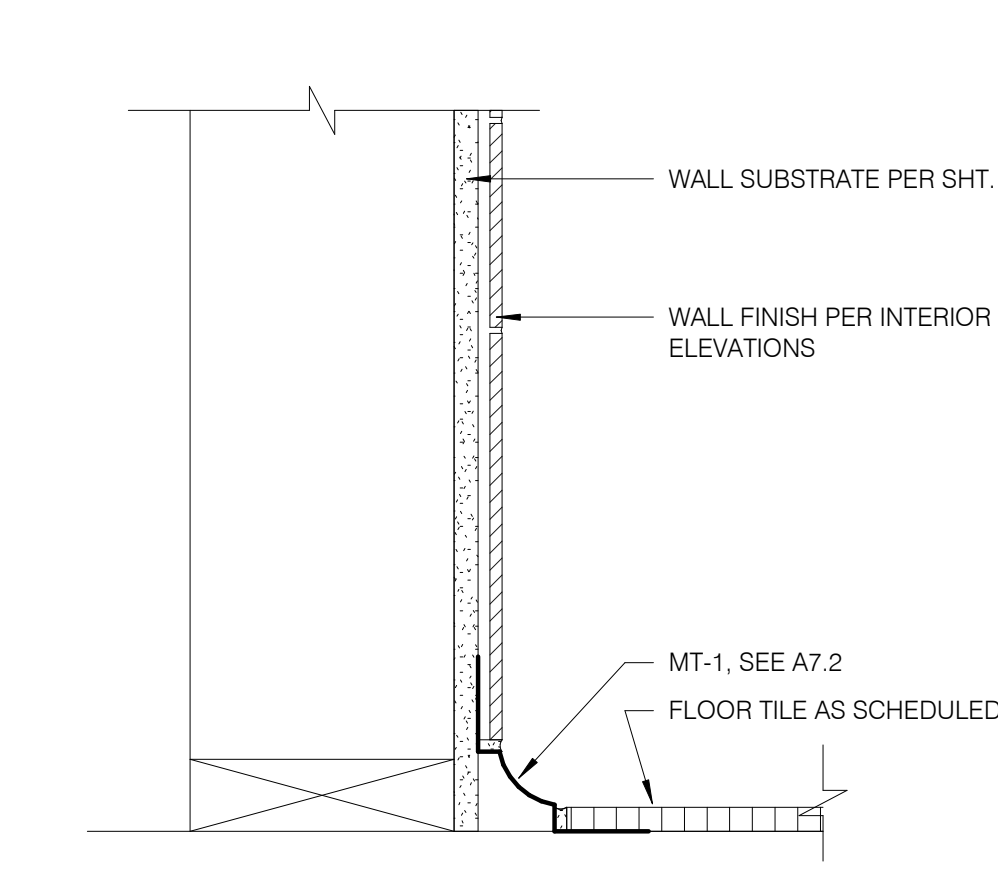
BASE @ DINING EXT. SIDE WALLS N.T.S. **15**



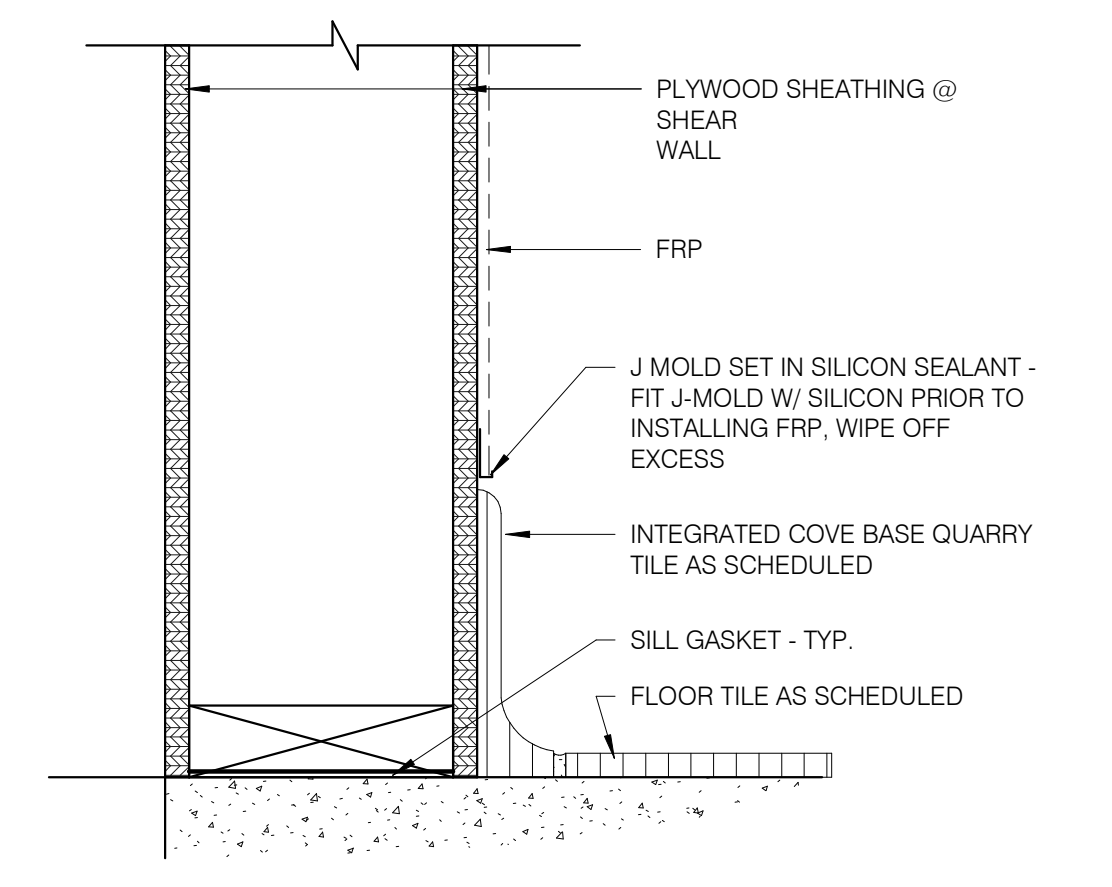
S.S. END WALL GUARD N.T.S. **14**



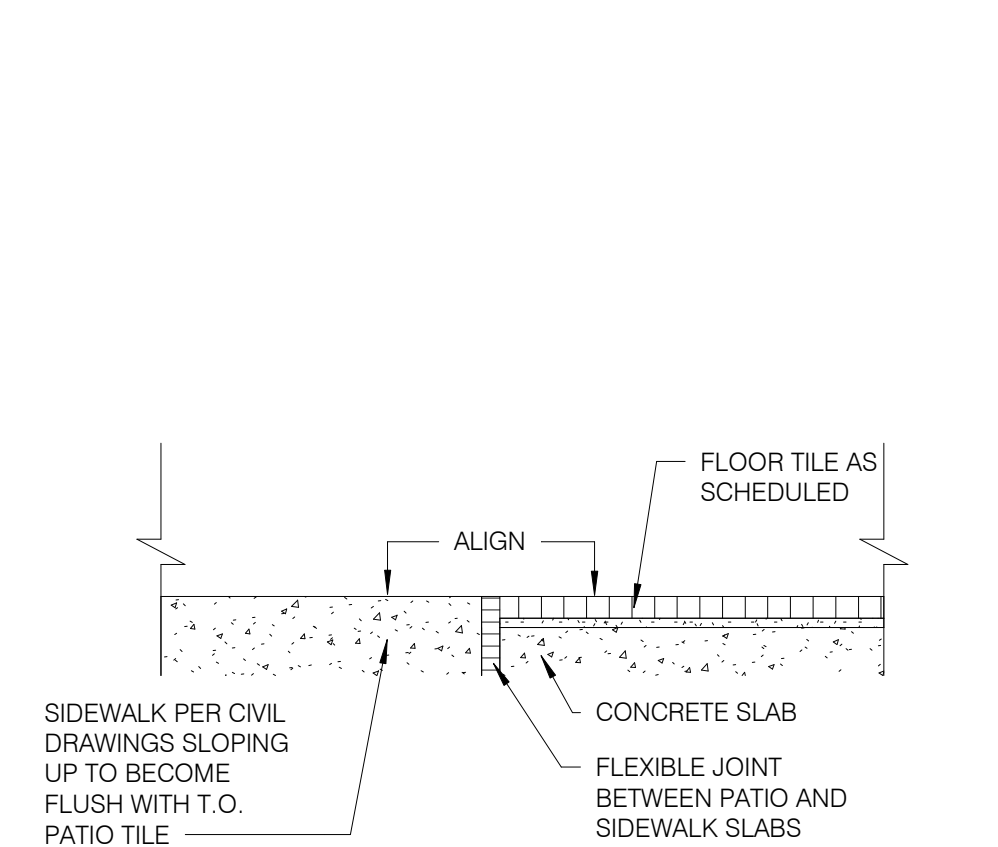
S.S. CORNER & END WALL GUARD N.T.S. **13**



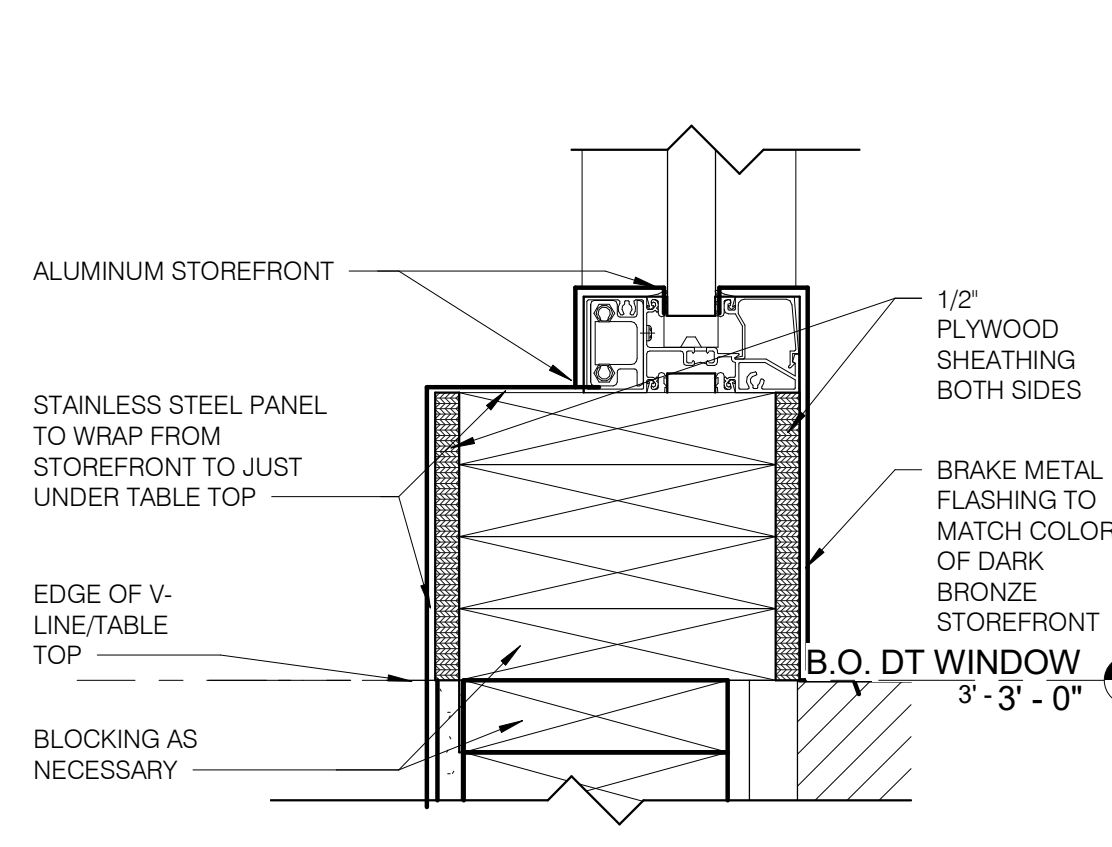
BASE IN RESTROOM N.T.S. **12**



BASE @ KITCHEN EXT. REAR WALL N.T.S. **11**



TILE TO CONCRETE SIDEWALK N.T.S. **17**



S.S. DTL. @ KITCHEN STOREFRONT 3" = 1'-0" **16**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

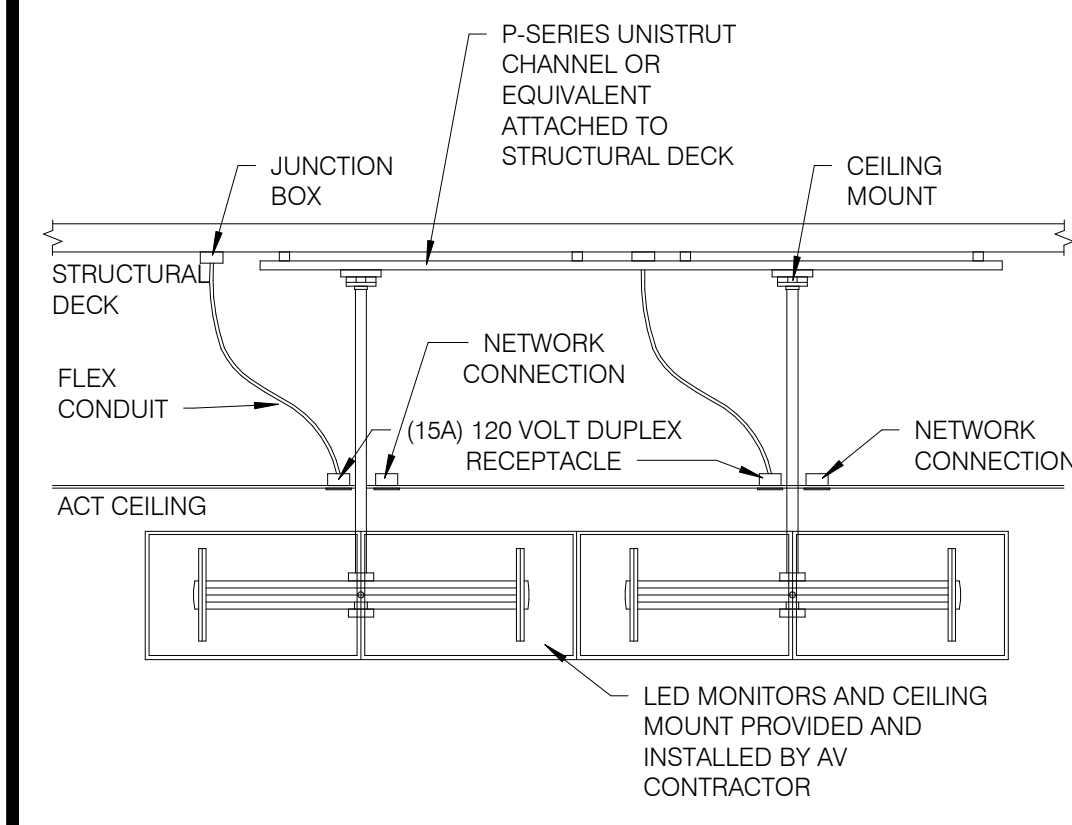
TACO BELL
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SOUTHGATE, MI 48195



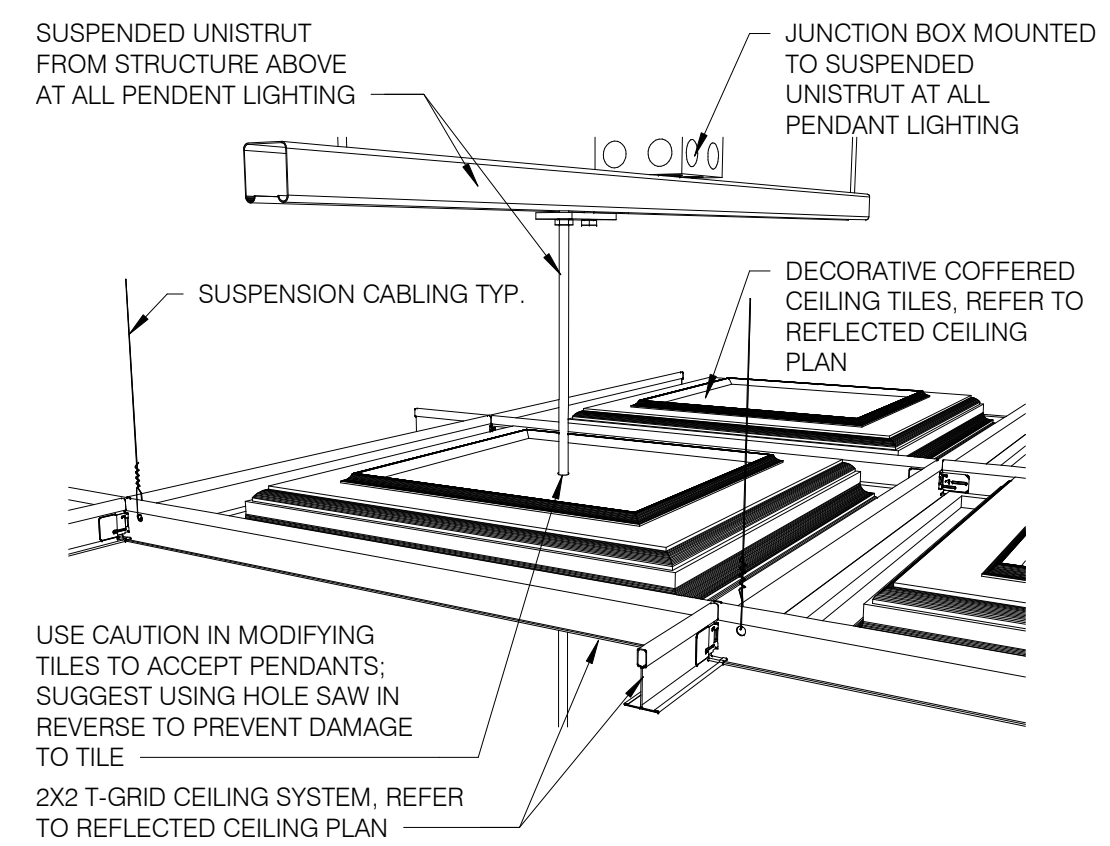
FINISH DETAILS

A6.5

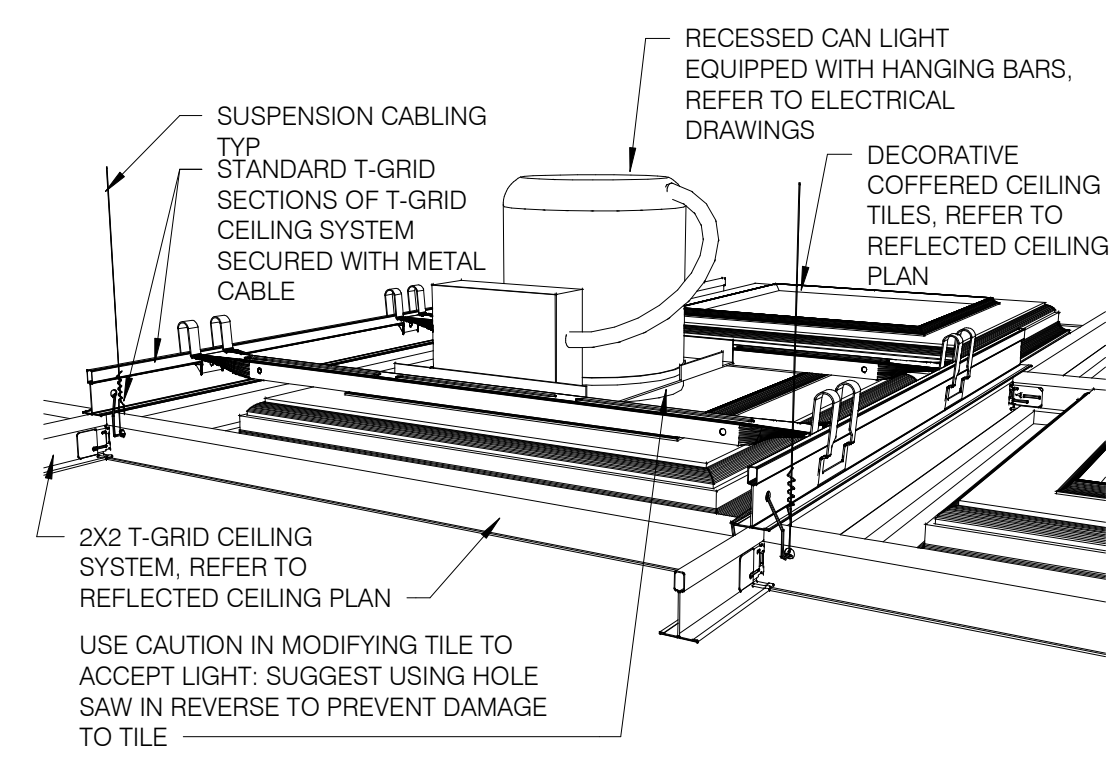
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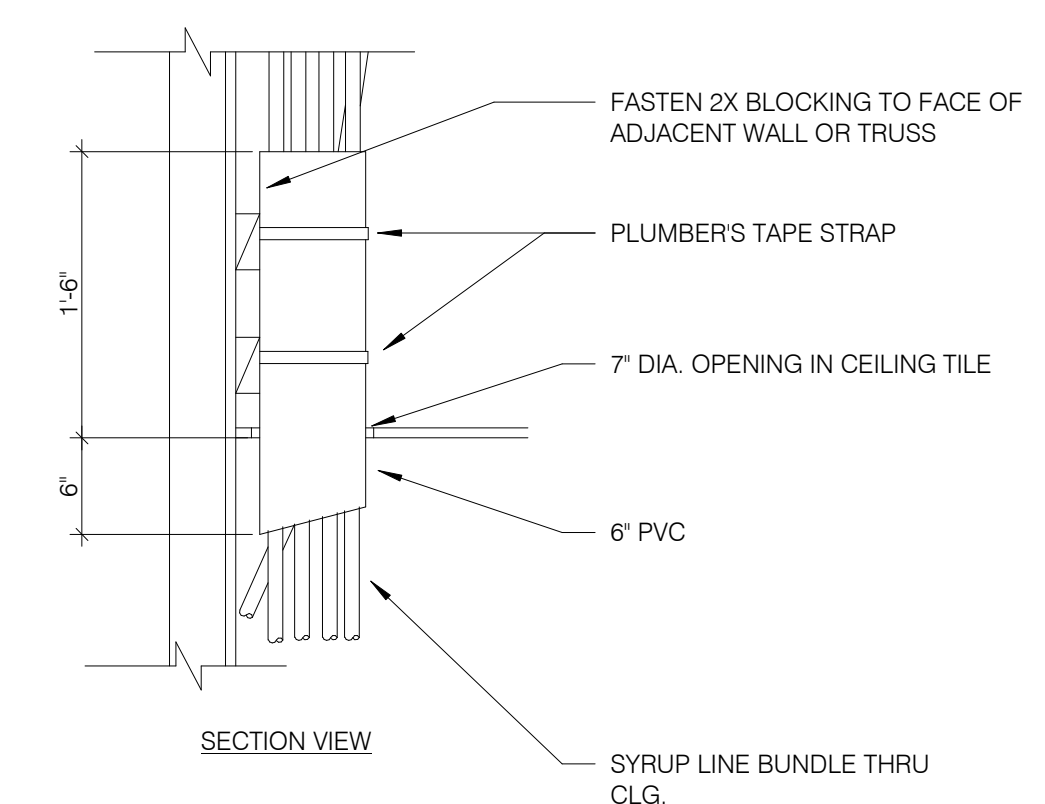
MENU BOARD MOUNTING DETAIL N.T.S. **5**



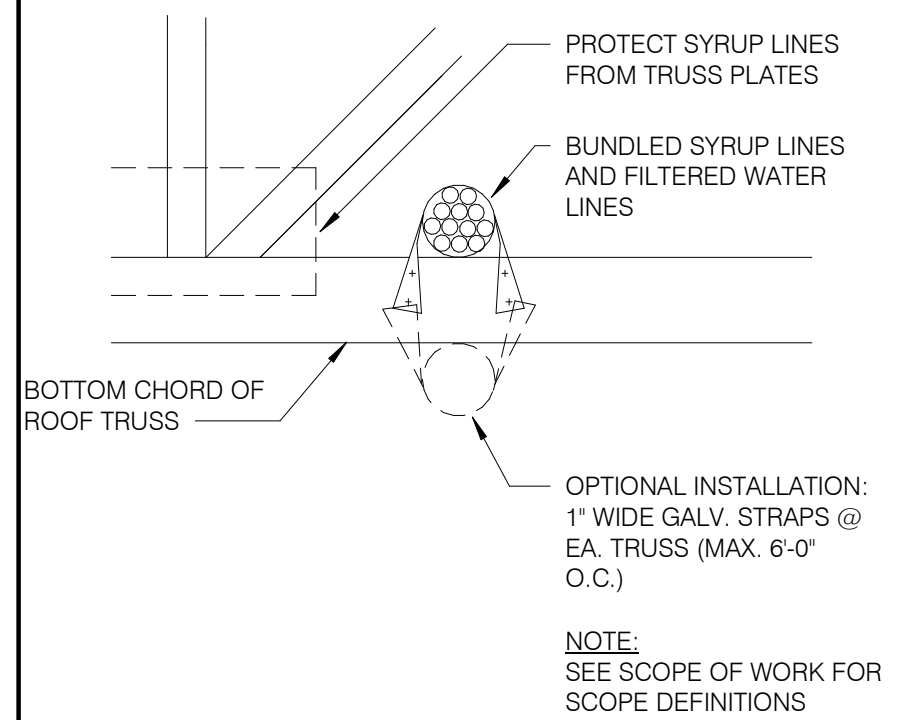
CEILUME DTL @ PENDANT FIXTURE N.T.S. **4**



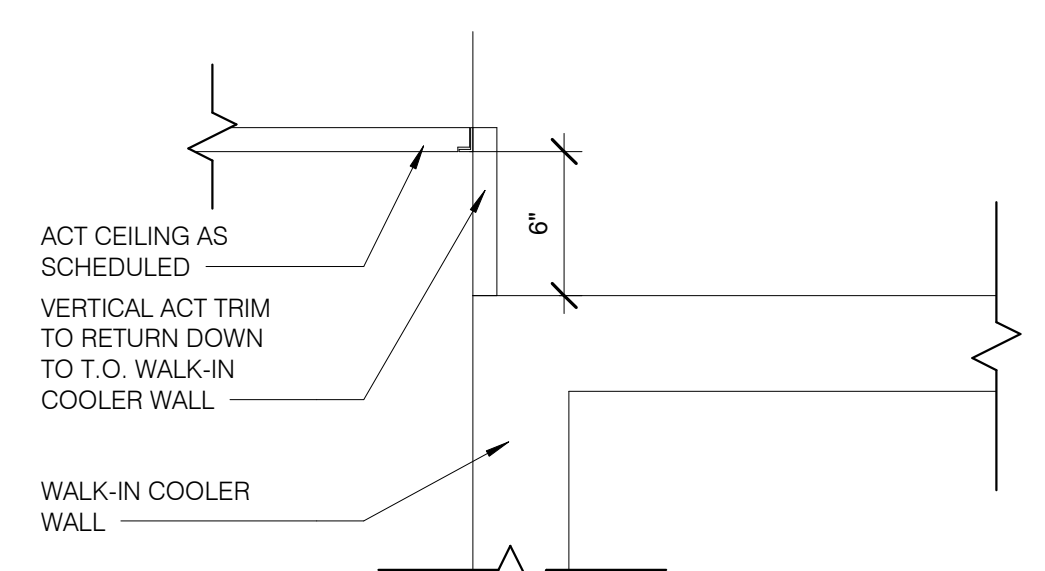
CELIUME DTL @ RECESSED FIXTURE N.T.S. **3**



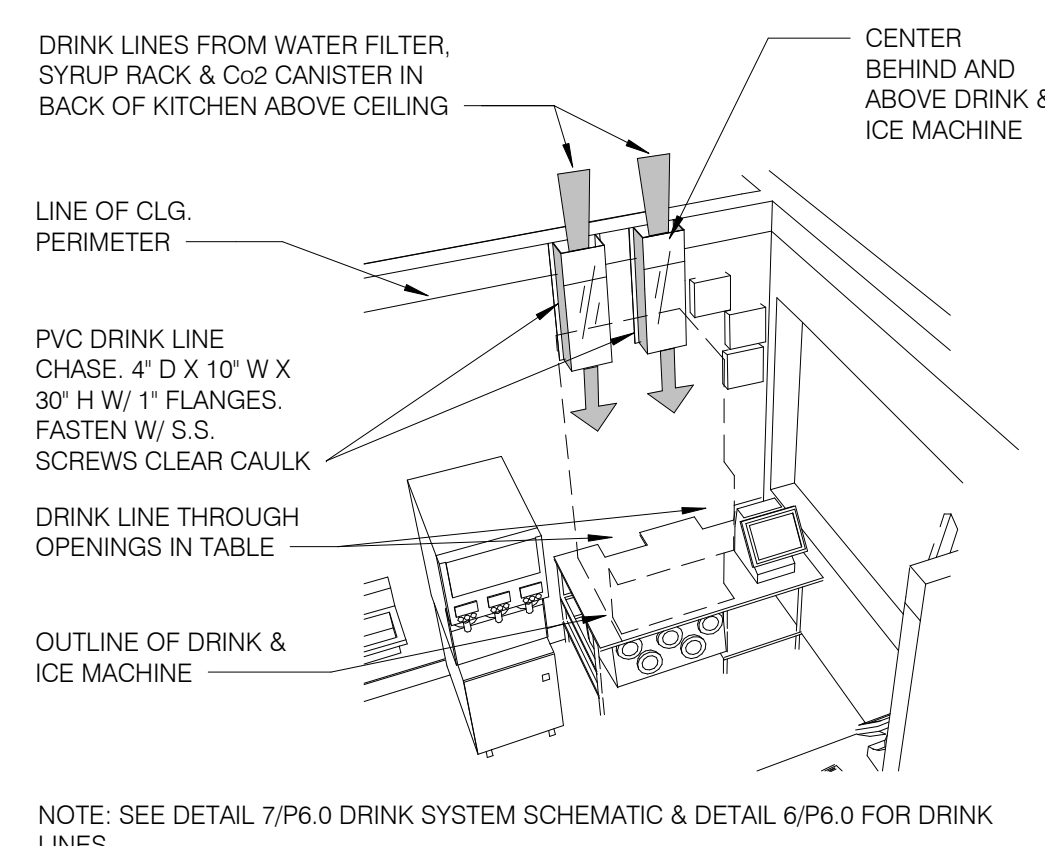
SYRUP BUNDLE CLG. PENETRATION N.T.S. **2**



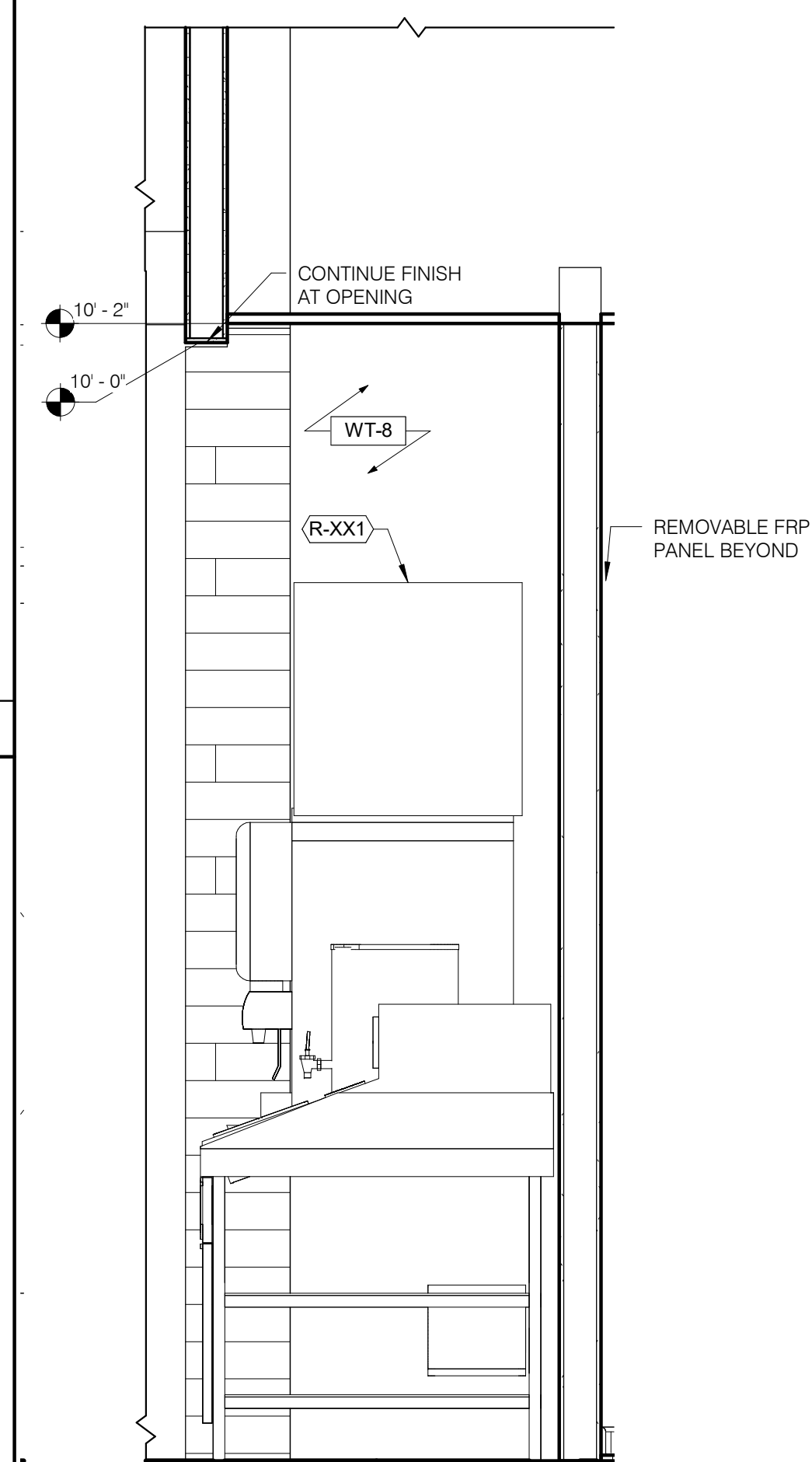
SYRUP LINE IN CEILING N.T.S. **1**



ACT DETAIL AT COOLER 1 1/2" = 1'-0" **7**



SYRUP CHASE ON WALL N.T.S. **8**



SECTION AT DRINK MILLWORK 3/4" = 1'-0" **6**

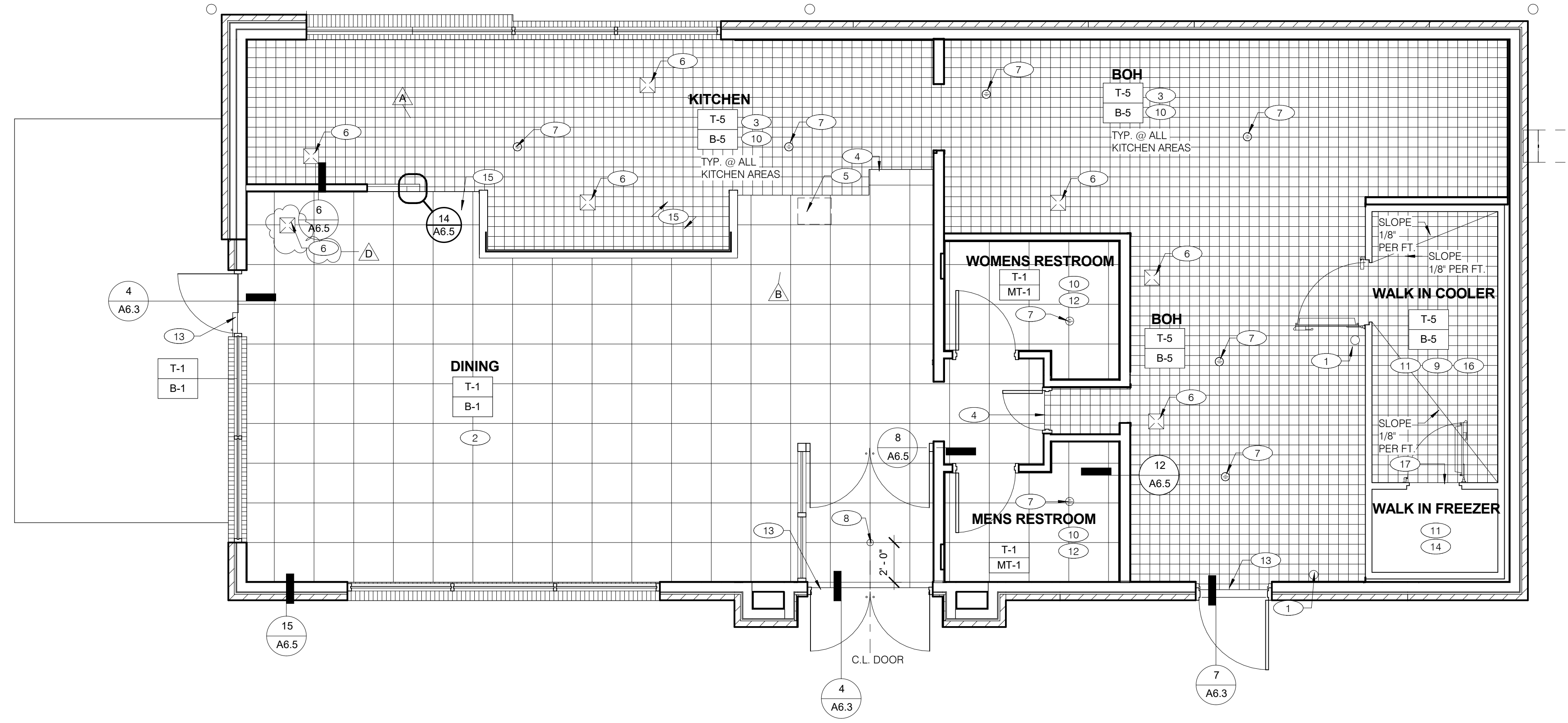
08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

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TACO BELL
T40
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MODERN EXPLORER

MISCELLANEOUS



FLOOR FINISH PLAN 1/4" = 1'-0" **A**

08.06.18	ISSUED FOR CONSTRUCTION
07.11.18	HEALTH COMMENTS
06.20.18	ISSUED FOR BID
06.07.18	CLIENT COMMENTS
05.24.18	HEALTH COMMENTS
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195



FLOOR FINISH PLAN

A7.0

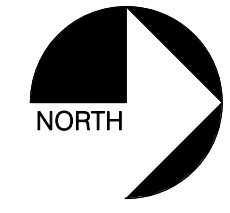
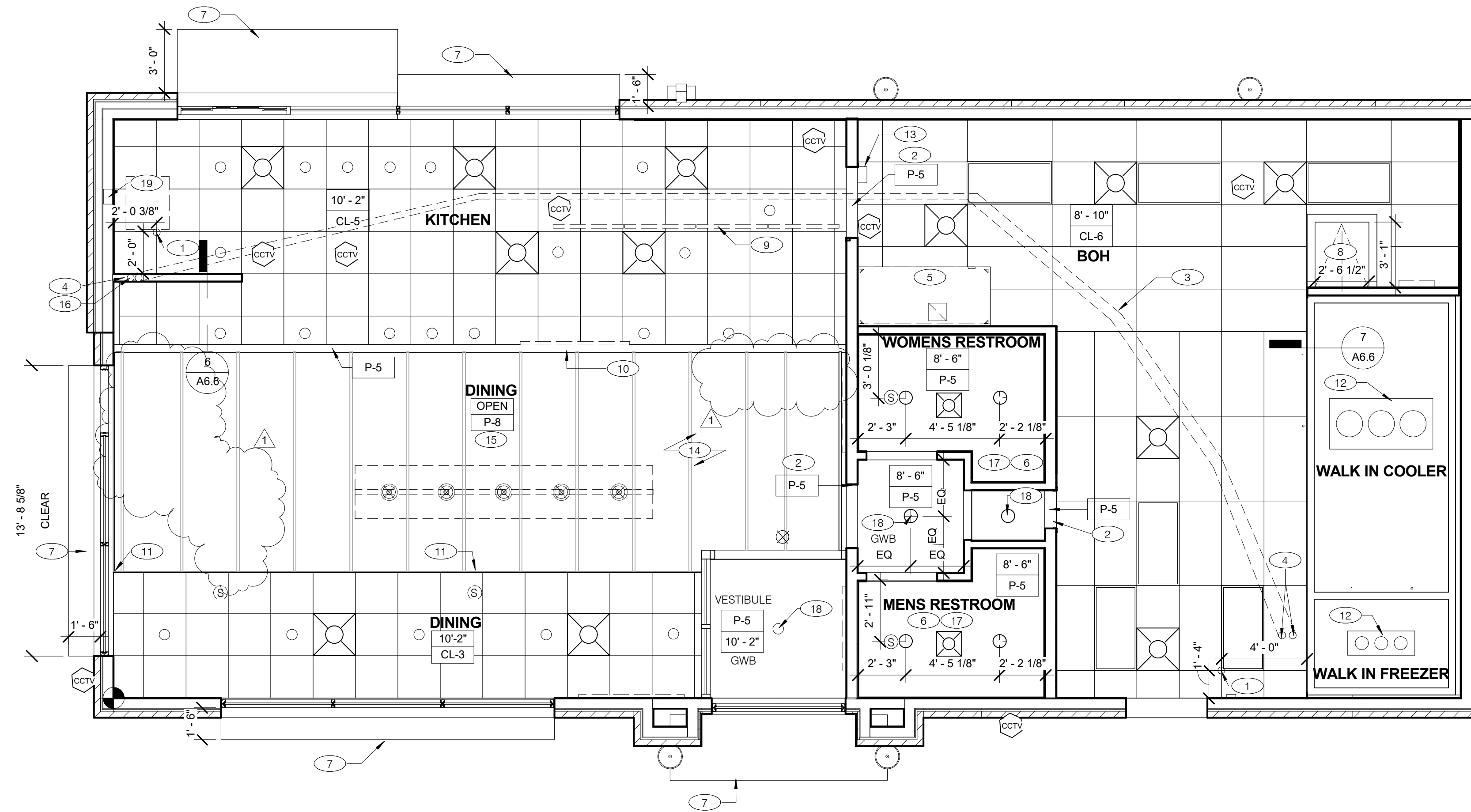
PLOT DATE: 8/7/2018 3:44:13 PM

- A. DENOTES FINISH MATERIAL. REFER TO SHT A7.2 FOR FINISHES.
- B. TILE JOINTS (U.O.N.):
1. PORCELAIN FLOOR TILE : 3/16"
2. GLAZED WALL TILE : 1/8"
3. 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.

- 1 HUB DRAIN
2 4" COVE TILE BASE. SEE DETAIL 8/A6.5 FOR INSTALLATION
3 6" SANITARY COVE TILE BASE, REF 4/A6.5
4 FLOAT TILE FOR FLUSH TRANSITION
5 PEDESTAL SAFE. COORDINATE THE LOCATION WITH CONSTRUCTION MANAGER
6 FLOOR SINK
7 FLOOR DRAIN
8 START POINT FOR FLOOR TILE, CENTERED ON DOOR
9 BASE IN COOLER; REF. DETAIL 1/A6.5
10 REFER TO STRUCTURAL DRAWINGS FOR CONC FLOOR SLOPES AROUND FLOOR DRAINS
11 NO BASE BEHIND WALK-IN COOLER/FREEZER
12 ALUMINUM COVE BASE TRANSITION. SEE DETAIL 12/A6.5 FOR INSTALLATION
13 ADA COMPLIANT ALUMINUM THRESHOLD. SEE DETAIL 7/ADA1.1, 4/A6.3 AND 7/A6.3
14 FACTORY FLOOR FINISH (GALV. STL) W/ INTEGRAL COVE BASE
15 TILE AND BASE TO CONTINUE UNDER MILLWORK COUNTER TOP.
16 PROVIDE FLOOR TILE INSIDE WALK-IN COOLER. (NO TILE BASE IN FREEZER). FLOAT FLOOR TILE IN COOLER TO DRAIN TO KITCHEN. COORDINATE WITH COOLER MANUFACTURER.
17 STEP-UP AT FREEZER TRANSITION

FLOOR FINISH NOTES **C**

FLOOR FINISH PLAN KEYNOTES N.T.S. **B**



REFLECTED CEILING PLAN 1/4" = 1'-0" **A**

- LIGHTING**
- RECESSED LIGHT FIXTURE
 - PENDANT LIGHT FIXTURE
 - HUB TABLE PENDANT LIGHT
 - SCONCE LIGHT FIXTURE
 - CEILING MOUNTED EXIT SIGN
 - 2' X 4' LAY-IN LIGHT FIXTURE
 - DUAL HEAD EMERGENCY FIXTURE
 - EMERGENCY WALL PACK FIXTURE
 - SECURITY STROBE LIGHT
- MECHANICAL**
- EXHAUST FAN
 - SUPPLY
 - RETURN
- AUDIO**
- SPEAKER

RCP LEGEND N.T.S. **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.
F. CUT EDGES OF TEGULAR TILES SHALL BE ROUTED.

CEILUME SUSPENDED CEILING:
A. CUT TILES; USE SCISSORS OR STRAIGHT BLADE AVIATION SNIPS TO CUT CEILING TILES. DO NOT USE A UTILITY KNIFE. TWO (2) OR THREE (3) TILES CAN BE NESTED TOGETHER AND CUT AT ONE TIME.
B. CUTTING HOLES: RUN HOLE SAW IN REVERSE. THIS WILL ALLOW FOR SMOOTH CUT AND PREVENT SAW BLADE FROM BINDING OR GRABBING VINYL FOR AREAS WITH HIGH WIND LOAD OR POSITIVE PRESSURE BELOW THE CEILING. RESULTING IN UPLIFT OF TILES.
C. INSTALL TWO (2) UPLIFT PREVENTION CLIPS PER TILE; USG/DONN I15 CEILING CLIP OR EQUIVALENT.
D. INSTALL CLIPS ON TILES NEAREST DOORS FIRST, AND WORK INWARDS. ONLY CLIP TILES THAT THAT EXHIBIT UPLIFT, DO NOT INSTALL ON ENTIRE CEILING. DO NOT INSTALL A "BLANKET" OR MINERAL FIBER TILE ON TOP OF THE CEILUME TILE TO PREVENT UPLIFT.

GYPSUM BOARD CEILING:
A. SUBSTRATE SHALL BE 1/2" THICK GYP. BD.
B. ACOUSTICAL SEALANT: APPLY TO GYP. BD. PANELS AS INDICATED IN SPECS.
C. GYP. BD. FINISHING AND DECORATING: REFER TO DWGS FOR TEXTURE AND FINISHES.

ELECTRICAL:
A. SEE ELECT. DWGS. FOR FIXTURE SCHED.
B. EXISTING EMERGENCY LIGHTS TO REMAIN.
C. CEILING MOUNTED OUTLETS & PLATES SHALL BE BLACK.
D. PENDANTS SHALL BE CENTERED OVER TABLES. VERIFY TABLE LOCATIONS WITH SEATING VENDOR SUPPLIED CORE DRILL PLAN PRIOR TO LOCATING PENDANTS.

MECHANICAL:
A. ALL DINING ROOM SUPPLY AND RETURN GRILLES SHALL BE INSULATED. FAILURE TO COMPLY WILL RESULT IN INSTALLATION BEING REJECTED, CORRECTIONS MADE AND ALL REMEDIAL COSTS CHARGED BACK TO CONTRACTOR.

REFLECTED CEILING PLAN NOTES **C**

- 1 CEILING GRID STARTING POINT.
- 2 BULK-HEAD @ 7'-0" A.F.F.
- 3 NON-INSULATED BUNDLED SYRUP LINES FOR DRINK SYSTEM ABOVE CEILING. SEE DETAIL 1/A6.6
- 4 6" DIA PVC STUB THROUGH CEILING, SEE DETAIL 2/A6.6
- 5 EXHAUST HOOD
- 6 FOR ROUGH FRAMING OPENINGS SEE AIR DEVICE SCHED. (TYP. AT RESTROOMS).
- 7 AWNING/ROOF BY SIGNAGE VENDOR
- 8 ROOF HATCH. SEE 2&4/A6.2
- 9 MENU BOARD. SEE SCOPE OF WORK
- 10 BULK-HEAD @ 10'-0" A.F.F.
- 11 LINE OF AXIOM EDGE DETAIL FOR FLOATING ACT CEILING
- 12 FAN COIL FOR WALK-IN FREEZER/COOLER
- 13 ALERT LIGHT BOX FOR 3-COMP POWER SOAK MOUNTED AT C.L. OF BOX 7'-11" AFF
- 14 WOOD TRUSS. B.O. TRUSS AT 11'-8" A.F.F.
- 15 PAINT ALL EXPOSED DUCTWORK, ELECTRICAL WIRING, ROOF DECK, AND WALL SURFACES ABOVE TRUSS BEARING P-8. TRUSSES AND BRIDGING TO REMAIN UNPAINTED.
- 16 PVC SYRUP CHASE IN WALL.
- 17 RESTROOM CEILINGS TO BE FRAMED W/ 2" X 6" WOOD STUDS @ 16" O.C.
- 18 CENTER RECESSED LIGHT IN ROOM, BOTH DIRECTIONS
- 19 STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 8/A6.6

REFLECTED CEILING PLAN KEYNOTES N.T.S. **B**

1	08.07.18	BULLETIN 1
	08.06.18	ISSUED FOR CONSTRUCTION
	06.20.18	ISSUED FOR BID
	04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
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BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

REFLECTED CEILING PLAN

A7.1

PLOT DATE: 8/8/2018 1:40:21 PM

	QTY	MANUFACTURER	TYPE	COLOR	SIZE	GROUT	Comments	ALTERNATE MANUFACTURER	ALTERNATE COLOR
CEILING									
CL-3	469 SF	CEILUME	STRATFORD	LATTE	2X2	N/A	SUSPENDED GRID W/ALUMINIUM, KITCHEN FLAME SPREAD RATING 0-25, CLASS A, PAINT GRID SW6080 UTTERLY BEIGE		
CL-5	363 SF	CERTAINTED	CEILING TILE	ACT VINYL ROCK #1140 WASHABLE NON PERFORATED, COLOR MATCH CL-3	2X2X1/2"	N/A	WHITE FLAME SPREAD RATING 0-25, CLASS A		
CL-6	470 SF	CERTAINTED	CEILING TILE	ACT VINYL ROCK #1140 WASHABLE NON PERFORATED	2X4X1/2"	N/A	WHITE SUSPENDED GRID W/ALUMINIUM, BOH FLAME SPREAD RATING 0-25, CLASS A		
CL-9	45' - 5" LF	ARMSTRONG	AXIOM CLASSIC TRIM	MATCH CL-3	10"H PROFILE	N/A			
CHAIR RAIL									
CR-1	46 LF		STAINED MAPLE CHAIR RAIL - 1" X 4"	MINWAX CLASSIC GREY STAIN	1X4				
FLOOR BASE									
B-1	140' - 8" LF	EUROWEST	TILE	URBAN GREY WEAVE	3X24	MAPEI # 47 CHARCOAL	DINING ROOM, ALCOVE	CREATIVE MATERIALS	METROPOLITAN 6"X12" COVE BASE
B-5	182' - 4" LF	EUROWEST	TILE	QUARRY NON ABRASIVE PURITAN GRAY COVE BASE	4X24	MAPEI # 106 WALNUT	B.O.H, KITCHEN	CREATIVE MATERIALS	QUARRY #507, 6"X6" NATURAL, GROUT: MAPEI KERAPOXY IEG CQ W/ PART C GREY
FLOORING									
T-1	1043 SF	EUROWEST	TILE	URBAN GREY WEAVE # V606292X8	24X24	MAPEI # 47 CHARCOAL	DINING ROOM, ALCOVE, RESTROOMS	CREATIVE MATERIALS	METROPOLITAN GREIGE 24X24 NATURAL, GROUT: MAPEI ULTRA COLOR PLUS
T-5	875 SF	EUROWEST	TILE	QUARRY #507 NON ABRASIVE PURITAN GRAY	6X6	MAPEI # 106 WALNUT	B.O.H, KITCHEN	CREATIVE MATERIALS	QUARRY #507, 6"X6" NATURAL, GROUT: MAPEI KERAPOXY IEG CQ W/ PART C GREY
LAMINATE									
DL-1		NEVAMAR	LAMINATE	BAILEY # WK0027T			DOOR EDGES TO BE FINISHED SIMILAR TO FACES		
FRP-1		MARLITE	FIBERGLASS REINFORCED PANEL	FP-100 WHITE (PEBBLE FINISH) - NO COLOR VARIATIONS ACCEPTED			B.O.H WALLS		
L-1		WILSONART	LAMINATE	RUSTIC SLATE #4888-38			POS / PICK UP COUNTER FACE		
L-2		WILSONART	LAMINATE	FIRE STEEL #4994-60			OPEN KITCHEN WALL / SHROUD		
L-9		NEVAMAR	LAMINATE	SMOKEY WHITE # 27027T			LAMINATE FOR OFFICE SHELVING		
SS-1		WILSONART	SOLID SURFACE	STARON BRIGHT WHITE SS-3 GLOSS 15			1/2" SS GLUED TO 3/4" PLYWOOD BACKING		
WC-1	190 SF	WILSONART	WAINSCOT LAMINATE	PEPPERDUST, MATTE FINISH D327-60					
METAL TRANSITION									
MT-1		SCHLUTER	DILEX AHK	NICKEL ANODIZED ALUMINUM	23/32"	MAPEI # 47 CHARCOAL	COVE BASE		FOR ALL CALIFORNIA STORES, USE AF: SATIN ANODIZED ALUMINUM
MT-2		SCHLUTER	DILEX AHK	EB: BRUSHED STAINLESS STEEL			TILE WALL @ KITCHEN AND DINING - COVE BASE		
MT-3				SATIN ALUMINUM ANODIZED			METAL SILVER TRIM AT VERTICAL WAINSCOT SEAMS		
MT-4		SCHLUTER	JOLLY	SATIN ALUMINUM ANODIZED	1/2" PROFILE	MAPEI #01 ALABASTER	TILE WALL EDGE TRANSITION		
PAINT									
P-3		SHERWIN WILLIAMS	PAINT	GRIFFIN SW7026 - SEMI GLOSS	N/A	N/A			
P-5		SHERWIN WILLIAMS	PAINT	WORLDLY GRAY SW 7043	N/A	N/A			
P-8		SHERWIN WILLIAMS	PAINT	GRIFFIN SW7026 - FLAT FINISH	N/A	N/A			
WALL TILE									
WT-1	908 SF	EUROWEST	TILE	TERRE NERO - #563474	8X8	MAPEI # 47 CHARCOAL	RESTROOM WALLS	CREATIVE MATERIALS	TERRA ANTHRACITE 8X8 NATURAL, GROUT: MAPEI ULTRACOLOR PLUS
WT-2	151 SF	EUROWEST	TILE	TERRECOTTE DECO MIX - #563495	8X8	MAPEI # 47 CHARCOAL	ACCENT WALL TILE , INSTALL ON WALL OPPOSITE DOOR OPENING	CREATIVE MATERIALS	TERRA DECO MIX 8X8, GROUT: MAPEI ULTRACOLOR PLUS
WT-8	295 SF	EUROWEST	TILE	ARCTIC ANTICATO	3X30	MAPEI # 01 ALABASTER	RUNNING BOND PATTERN OFFSET 25%	CREATIVE MATERIALS	CMC SALVAGE WOOD WHITE WASH 3X36 NATURAL, GROUT: MAPEI ULTRACOLOR PLUS



1	08.07.18	BULLETIN 1
	08.06.18	ISSUED FOR CONSTRUCTION
	06.20.18	ISSUED FOR BID
	04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195



FINISH LEGEND AND SCHEDULE

A7.2

PLOT DATE: 8/7/2018 3:44:16 PM

FINISH LEGEND

Name	Floor Finish	Base Finish	Wall Finish	Accent Wall	Ceiling Finish	CEILING HEIGHT	Comments
BOH	T-5	B-5	FRP-1	N/A	CL-6	8' 10"	
DINING	T-1	B-1	P-5, P-8	N/A	CL3, CL-9	VARIES, SEE A7.1	
KITCHEN	T-5	B-5	P-5	WT-8	CL-5	10' 2"	
MENS RESTROOM	T-1	MT-1	WT-1	WT-2	GWB, P-5	8' 6"	PAINT CEILING
OFFICE	T-5	B-5	FRP-1	N/A	CL-6	8' 10"	
VESTIBULE	T-1	B-1	STOREFRONT, P-5	N/A	GWB, P-5	10' 2"	REMOVE IF NOT USING VESTIBULE
WALK IN COOLER	T-5	B-5	N/A	N/A	N/A	PER MANUFACTURER	
WALK IN FREEZER	N/A	N/A	N/A	N/A	N/A	PER MANUFACTURER	
WOMENS RESTROOM	T-1	MT-1	WT-1	WT-2	GWB, P-5	8' 6"	PAINT CEILING

1. INSTALL FRP ON KITCHEN SIDE OF SERVING COUNTER WALL.
2. GALV. STEEL WALL AND CEILING FINISHES BY WIC / WIF BOX MFR. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE AND FRP.
- 3.
4. APPROVED PAINT MANUFACTURERS:
PORTER, BENJAMIN MORE, SHERWIN WILLIAMS, ICI, & PITTSBURGH PAINTS. MATCH SPECIFIED SCHEDULE COLORS EXACTLY.
- 5.
- 6.
7. ALL PAINTED GYPSUM BOARD SHALL HAVE A LIGHT ORANGE PEEL TEXTURE.
8. ALL MORTAR SHALL BE MIXED WITH WHITE SAND TO INSURE A COLOR CONSISTENT TO THE ORIGINAL DESIGN INTENT
9. ALL TILE MUST BE ORDERED FROM THE SAME VENDOR, EITHER EUROWEST OR CREATIVE MATERIAL CORP.

EUROWEST DECORATIVE SURFACES
JAN DETER
DESIGN/ ARCH. CONSULTANT
(714)-309-9551
WWW.EUROWEST.COM

MARLITE
DAN EGGERS
(330)-343-6621
WWW.MARLITE.COM

WILSONART INTERNATIONAL, INC.
DAVID CHICKVARA
(254)-207-2130
CHICKV@WILSONART.COM

SHERWIN WILLIAMS
BRAD HARRINGTON
(216)-341-5553 EXT. 115
CELL: 216-210-2723
BRAD.E.HARRINGTON@SHERWIN.COM

CREATIVE MATERIALS CORP.
PH: (800)-207-2967 EXT BELL(2355)
TACOBELLTILE@CREATIVEMATERIALSCORP.COM

RETROPLATE CONCRETE DYE
MIKE BLACKBURN
(717)-439-1114

CUMMINGS SIGNS
ANN BAKER
(800)-489-7446 EXT. 1001
DIRECT DIAL: (615)-872-0068
CELL: (615)-812-2204

NATIONAL METAL SHAPES
RUSSEL DAY
(800)-837-9559

ROCA TILE GROUP
CHRISTINA DORDAS
(708)-910-2368
WWW.ROCATILEGROUP.COM
CHRISTINA.DORDAS@US.ROCA.COM

BERRIDGE
1-(800)-669-0009

REPLICATIONS UNLIMITED
RODNEY JARBOE
(314)-523-2040 EXT. 101

DAVIS COLORS
(MORTAR PIGMENT)
WEST: (800)-356-4848
EAST: (800)-638-4444

EVERBRITE
NICHOLE BIERMAN
NBIERMAN@EVERBRITE.COM
(414)-529-7179

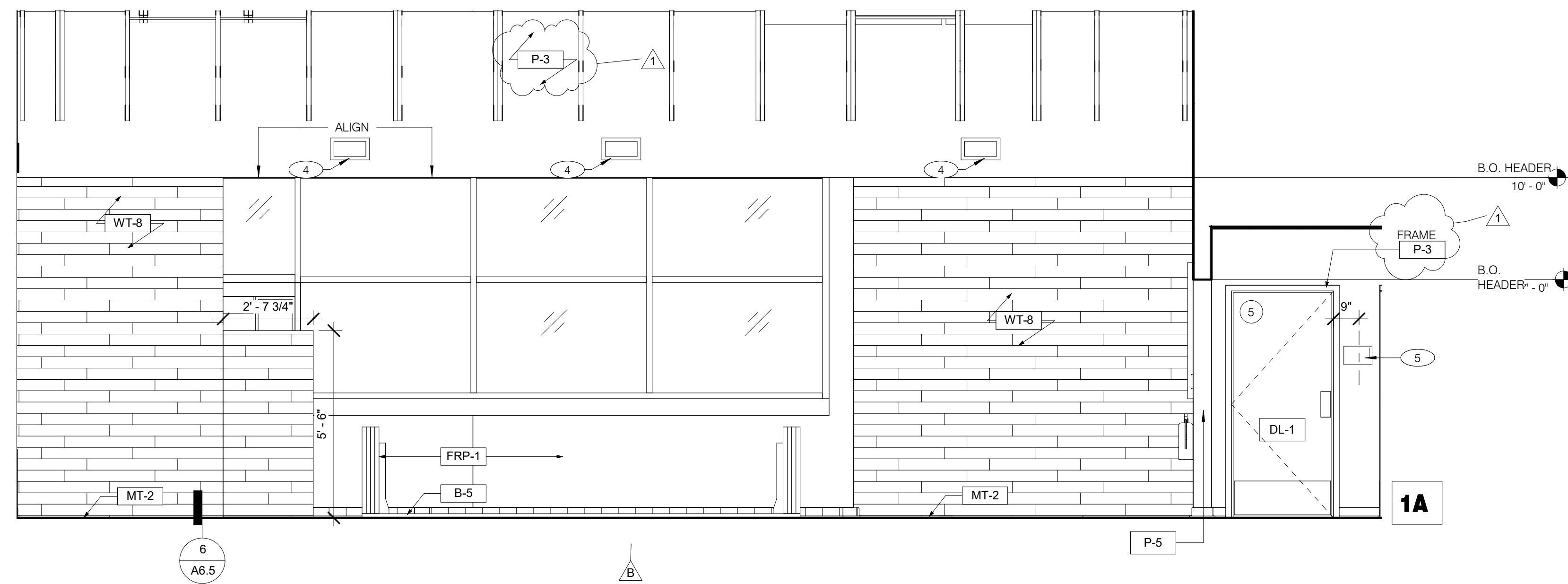
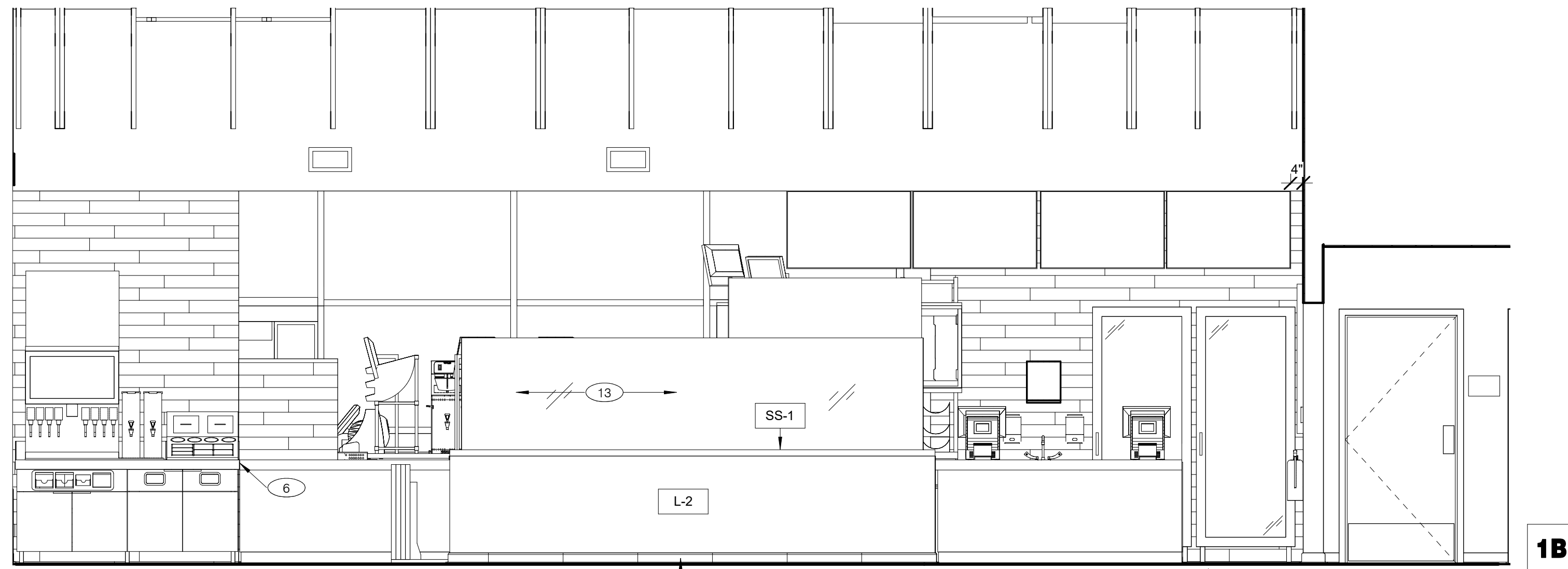
JOHNSONITE
LAURIE BAATZ
(440)-313-8238

NICHIHA
MATT STEPHENSON
(770)-789-8228

ROOM SCHEDULE **D**

FINISH NOTES **C**

CONTACTS **B**

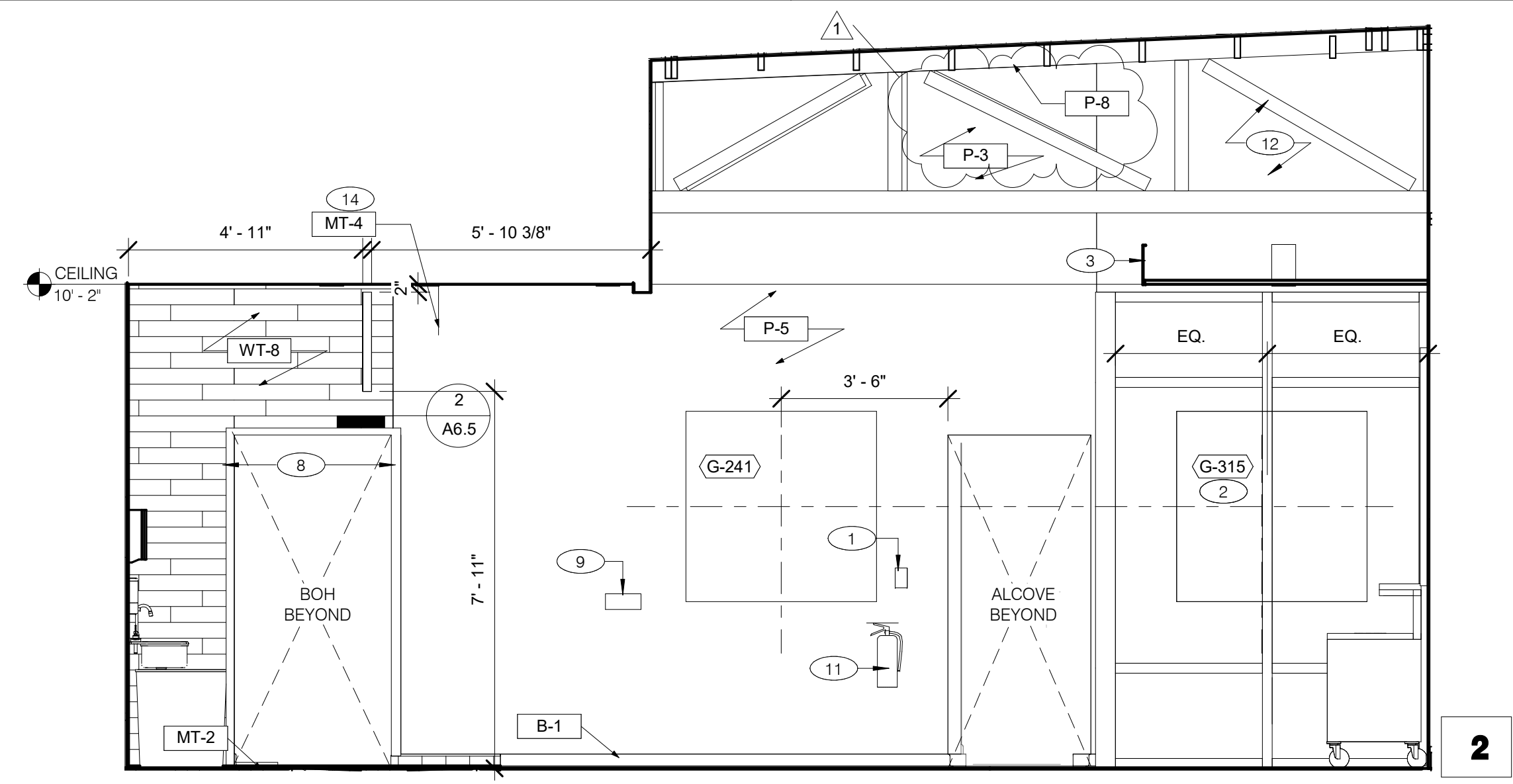


- ① TEMPERATURE SENSOR.
- ② ARTWORK SHOWN INSIDE VESTIBULE.
- ③ ACT EDGE TRIM, SEE A7.2
- ④ HVAC SUPPLY DIFFUSER
- ⑤ H.C. SIGNAGE.
- ⑥ PROVIDE CLEAR SILICONE CAULK WHERE ALL FIXED AND BUILT-IN COUNTERS / EQUIPMENT ABUT WALL SURFACES. WHERE GAP BETWEEN WALL AND COUNTER SPLASH / EQUIPMENT EXCEEDS 1/4", PROVIDE S.S. CLOSURE ANGLE.
- ⑦ NO SMOKING SIGN.
- ⑧ STAINLESS STEEL WALL GUARDS.
- ⑨ "PLEASE ASK IF YOU NEED ASSISTANCE" SIGN. SMALLWARE PACKAGE.
- ⑩ INSTALL TACTILE "EXIT" SIGN
- ⑪ FIRE EXTINGUISHER MOUNTED ON WALL HOOK
- ⑫ CEILING EXPOSED ABOVE ACT EDGE TRIM
- ⑬ 1/2" TEMPERED GLASS. SEE DETAILS ON SHEET A8.3
- ⑭ METAL TRIM FOR WALL TILE TO GYP. TRANSITION. SEE FINISH LEGEND
- ⑮ CHAIR RAIL

NOT ALL KEY NOTES APPEAR ON THIS SHEET. SEE SHEET A8.1 FOR ADDITIONAL ELEVATIONS.

1	08.07.18	BULLETIN 1
	08.06.18	ISSUED FOR CONSTRUCTION
	06.20.18	ISSUED FOR BID
B	06.07.18	CLIENT COMMENTS
	04.16.18	ISSUED FOR PERMIT

DINING 3/8" = 1'-0" **1** **KEY NOTES** **A**



DINING 3/8" = 1'-0" **2**

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

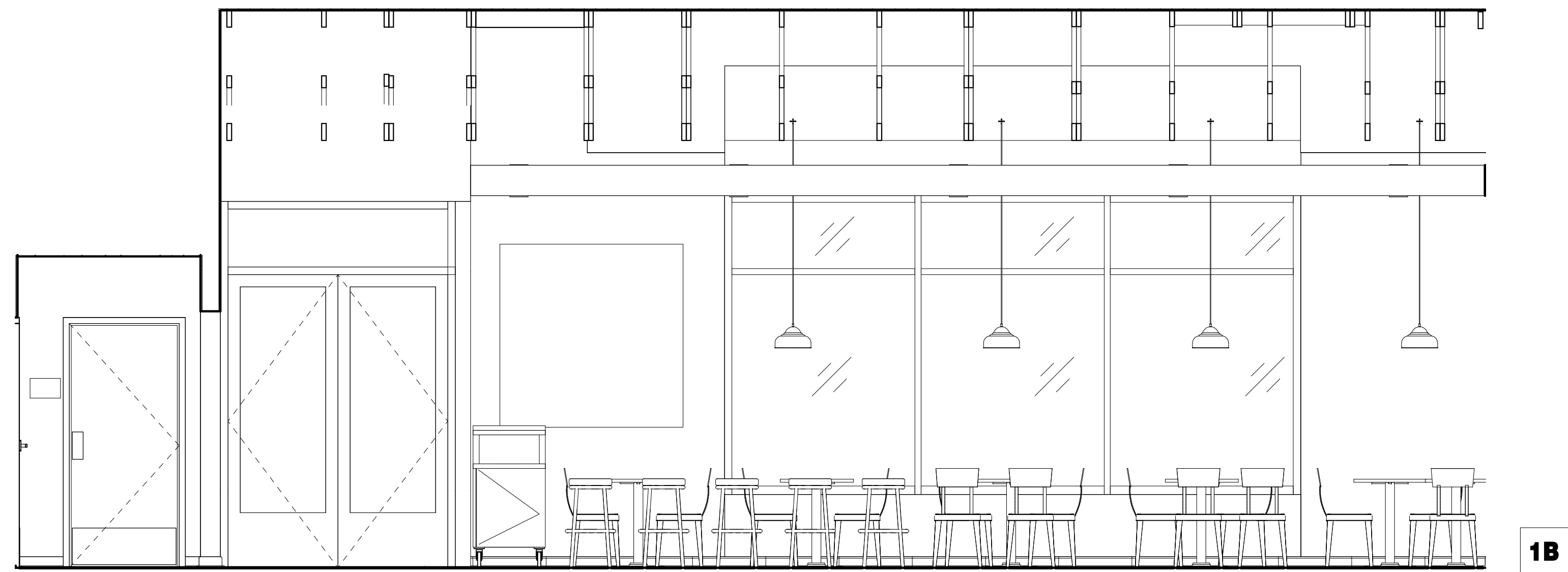
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19000 NORTHLINE ROAD
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TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

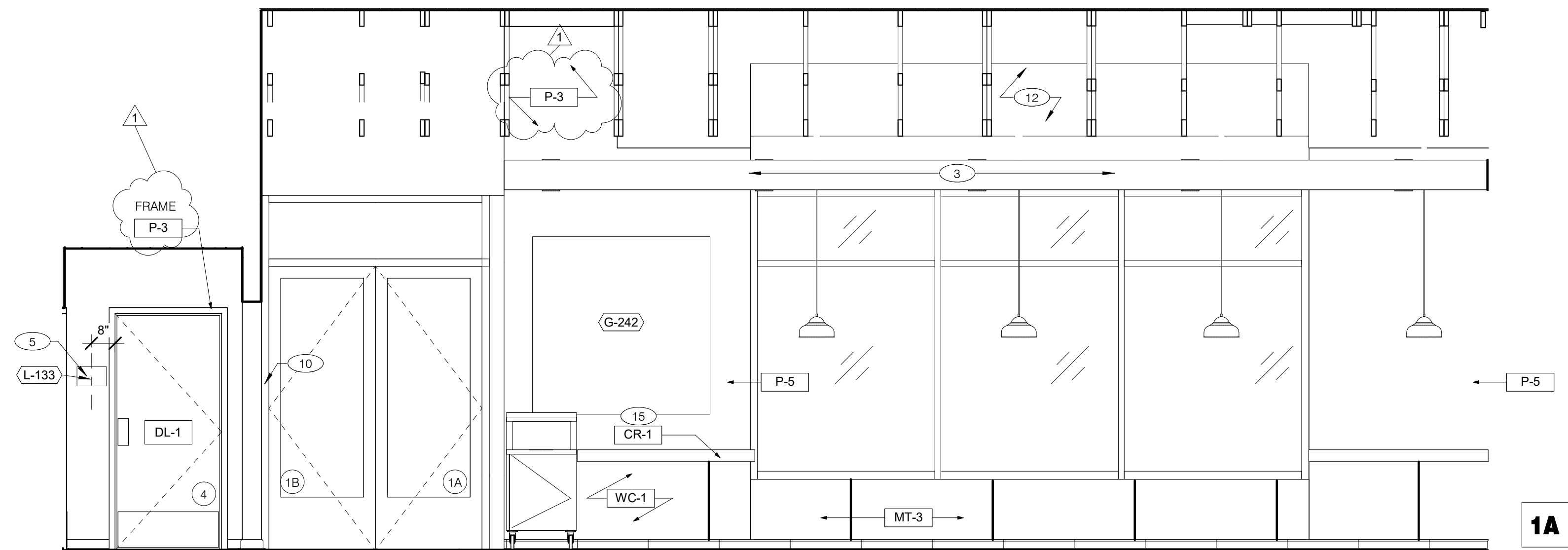
INTERIOR ELEVATIONS DINING ROOM

A8.0

PLOT DATE: 8/7/2018 3:44:18 PM



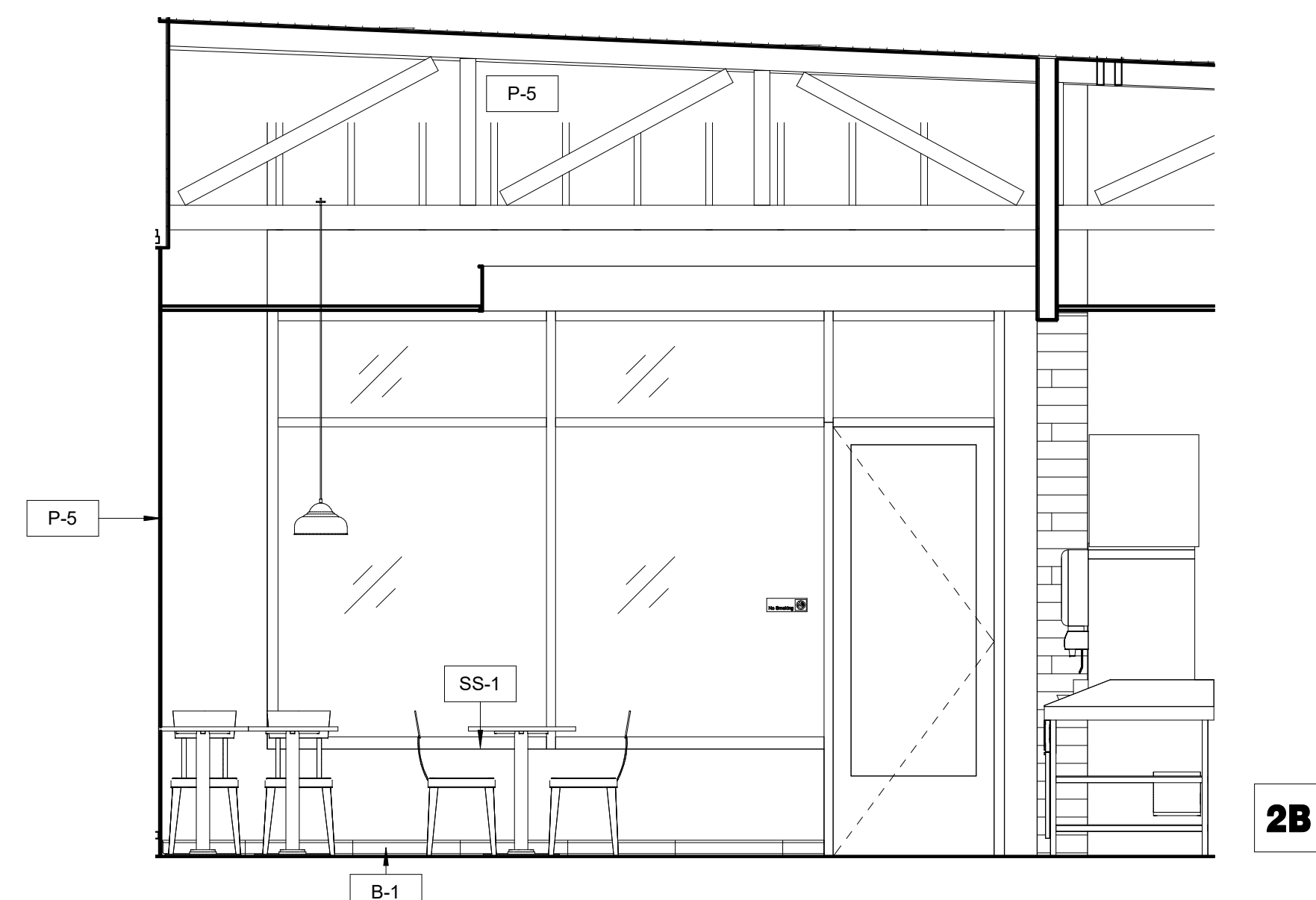
1B



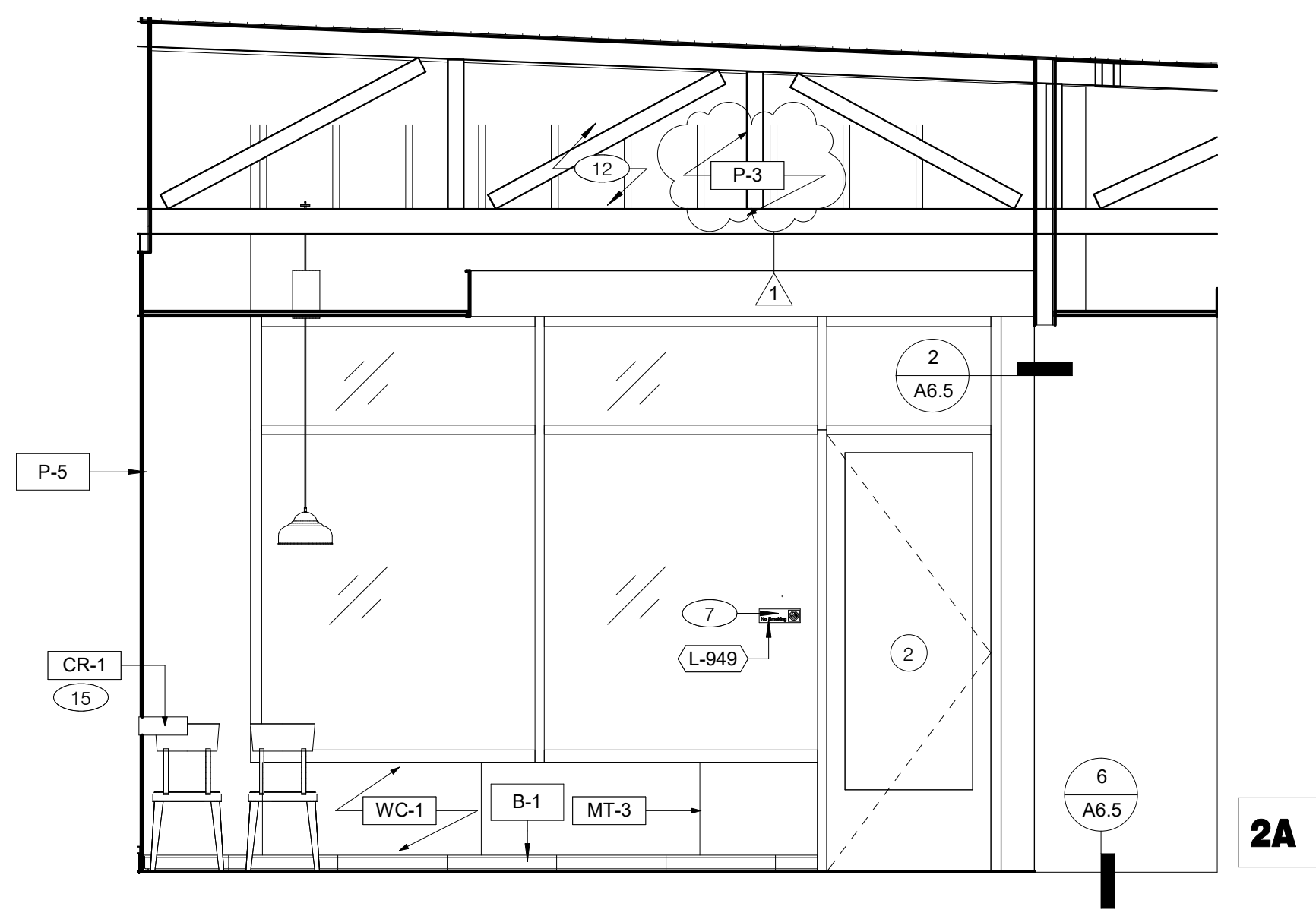
1A

SEE SHEET A8.0 FOR KEY NOTES

DINING 3/8" = 1'-0" **1**



2B



2A

SEE SHEET A8.0 FOR KEY NOTES

DINING 3/8" = 1'-0" **2**

1	08.07.18	BULLETIN 1
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
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SITE NUMBER: 312529/445209
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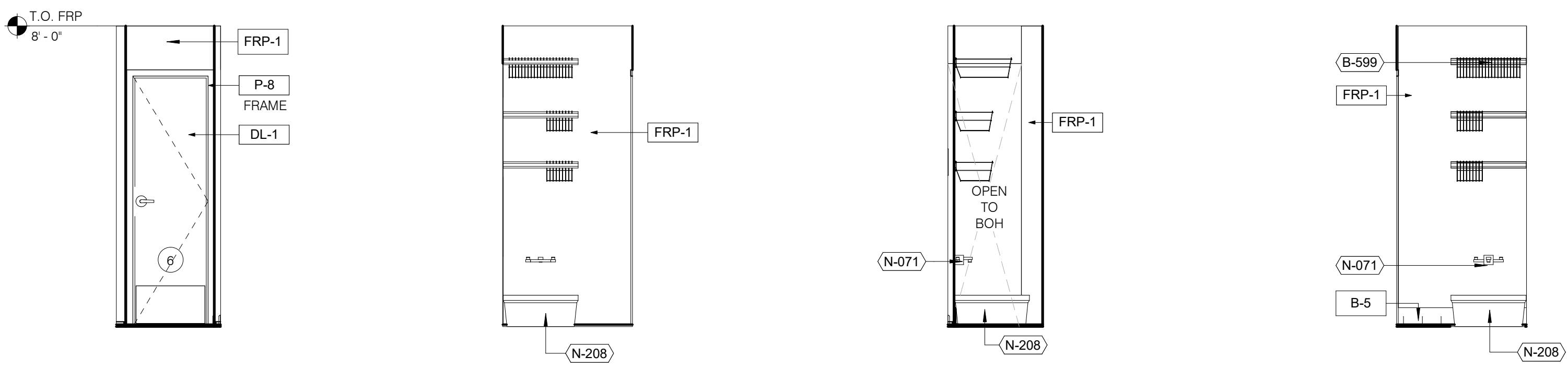
TACO BELL
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TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

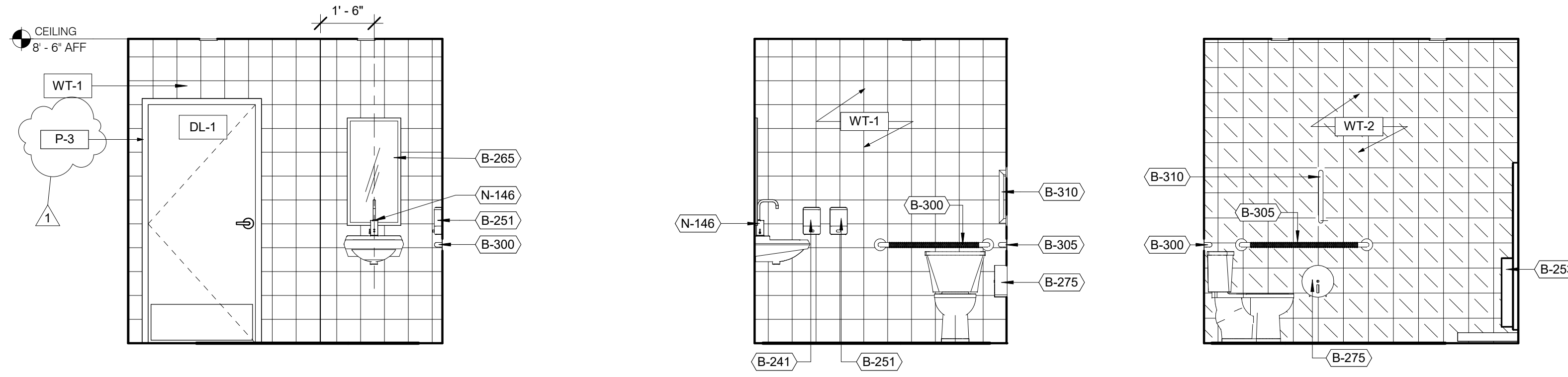
INTERIOR ELEVATIONS DINING ROOM

A8.1

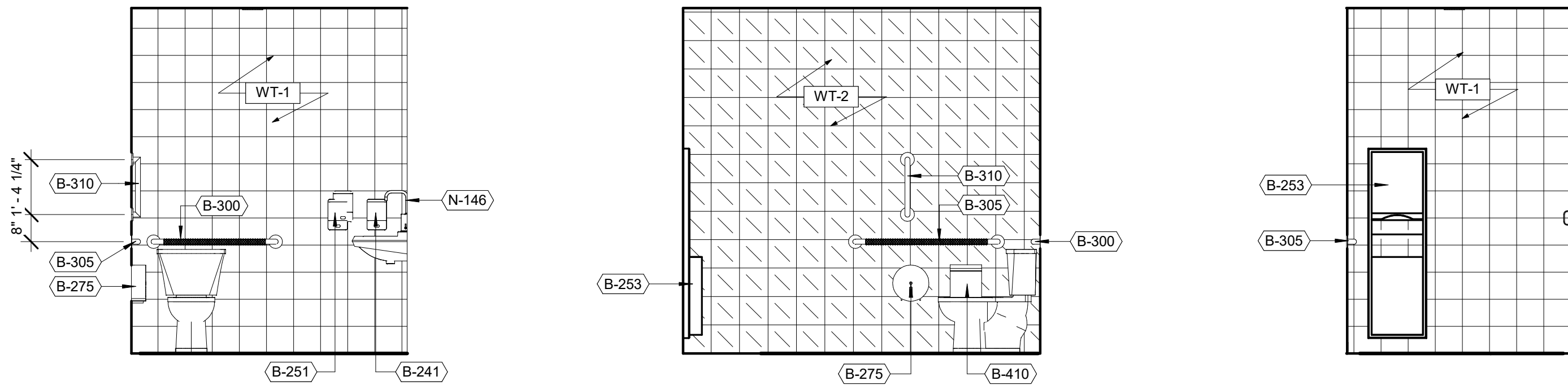
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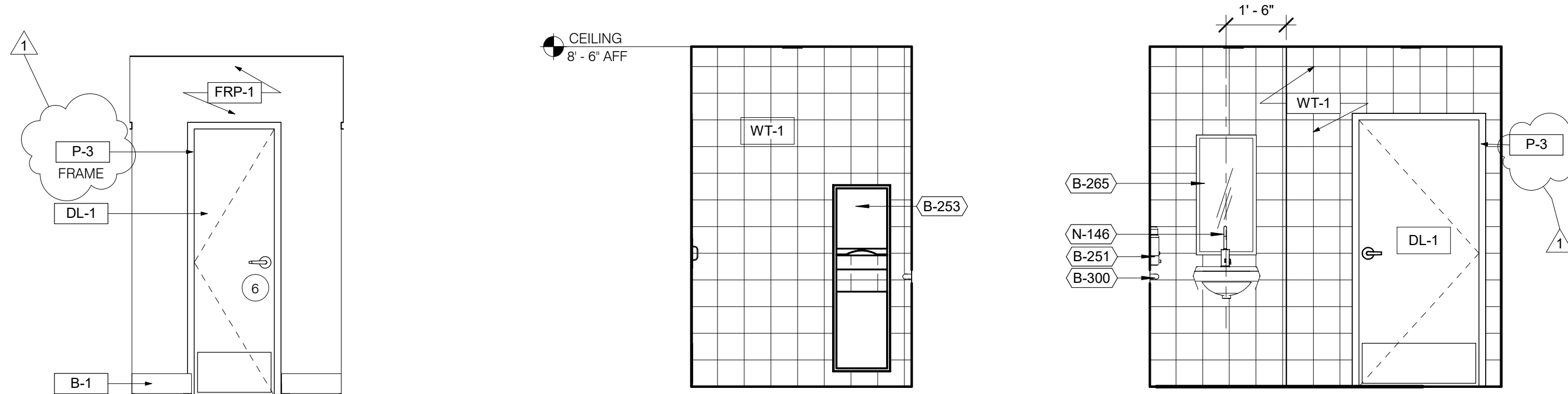
MOP SINK ROOM 3/8" = 1'-0" 4 MOP SINK ROOM 3/8" = 1'-0" 3 MOP SINK ROOM 3/8" = 1'-0" 2 MOP SINK ROOM 3/8" = 1'-0" 1



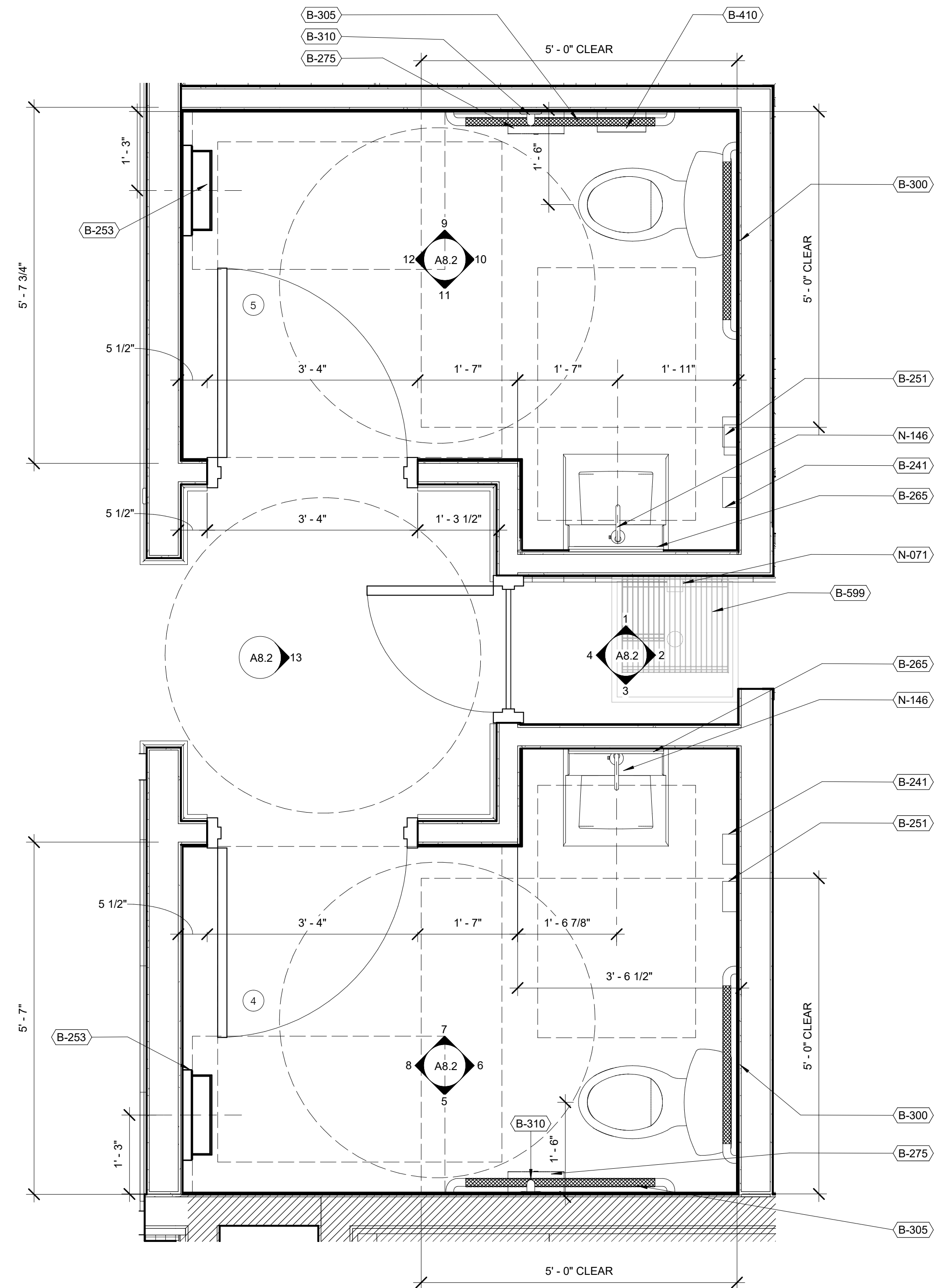
MENS RESTROOM 3/8" = 1'-0" 7 MENS RESTROOM 3/8" = 1'-0" 6 MENS RESTROOM 3/8" = 1'-0" 5



WOMENS RESTROOM 3/8" = 1'-0" 10 WOMENS RESTROOM 3/8" = 1'-0" 9 MENS RESTROOM 3/8" = 1'-0" 8



ALCOVE 3/8" = 1'-0" 13 WOMENS RESTROOM 3/8" = 1'-0" 12 WOMENS RESTROOM 3/8" = 1'-0" 11



ENLARGED RESTROOM PLAN 3/4" = 1'-0" A

1. PROVIDE PROPER 2x BLOCKING AT WALL RECESSED MOUNTED ACCESSORIES.
2. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS. REFER TO SHEET ADA1.0.
3. REFER TO FLOOR PLAN NOTES FOR BLOCKING AND SUBSTRATE NOTES.
4. REFER TO SHEET ADA1.0 FOR MOUNTING HEIGHTS AND CLEARANCES OF ACCESSORIES AND FIXTURES. ALL DIMENSIONS THIS DRAWING ARE TO FINISH SURFACE.
5. FOR () DESCRIPTIONS, REFER TO ARTWORK SCHEDULE ON SHEET A2.0.
6. PROVIDE 1/4" MAX GAP AT ALL TOILET PARTITION JOINTS.
7. FOR () DESCRIPTIONS, REFER TO EQUIPMENT SCHEDULE ON SHEET A2.0.

*ABSOLUTE DIMENSIONS

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	04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40-M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

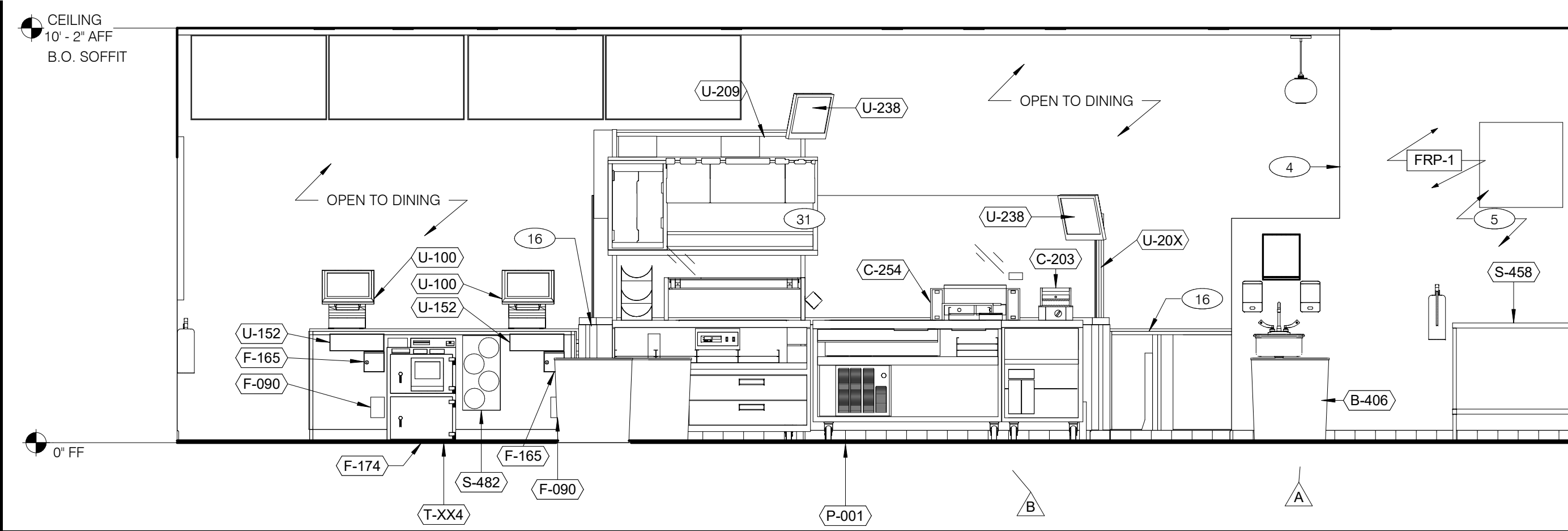
TACO BELL
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SOUTHGATE, MI 48195



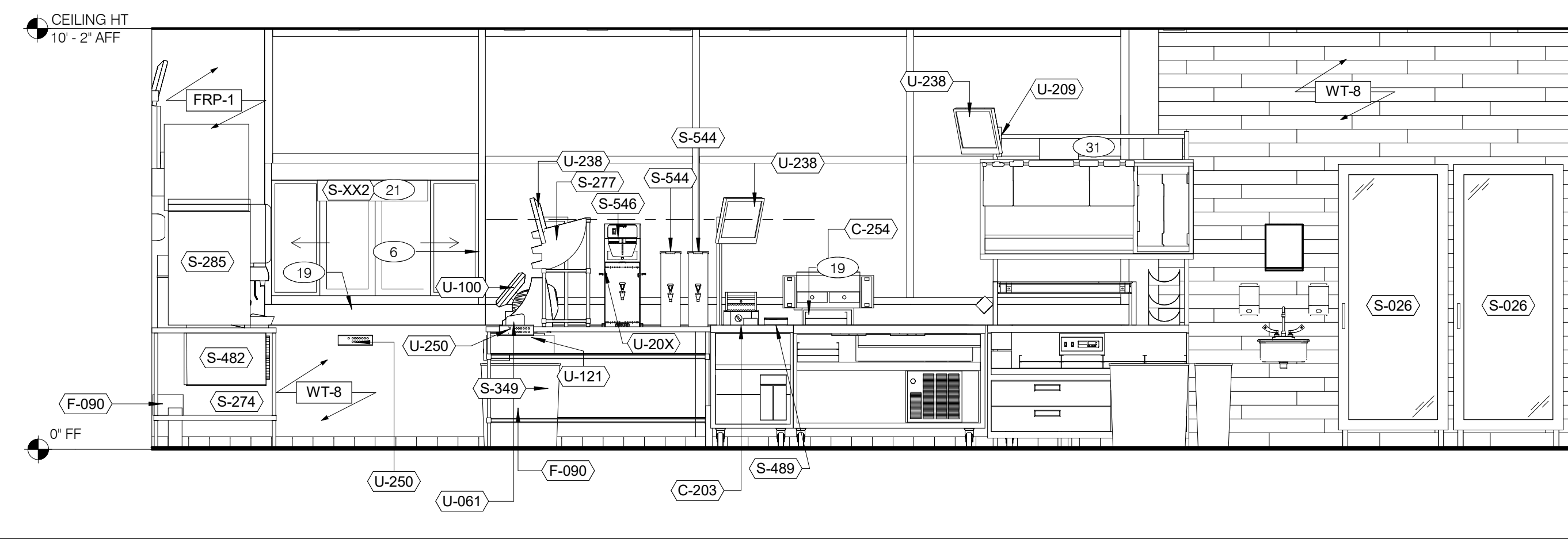
**INTERIOR ELEV.
ENLARGED
RESTROOMS**

A8.2

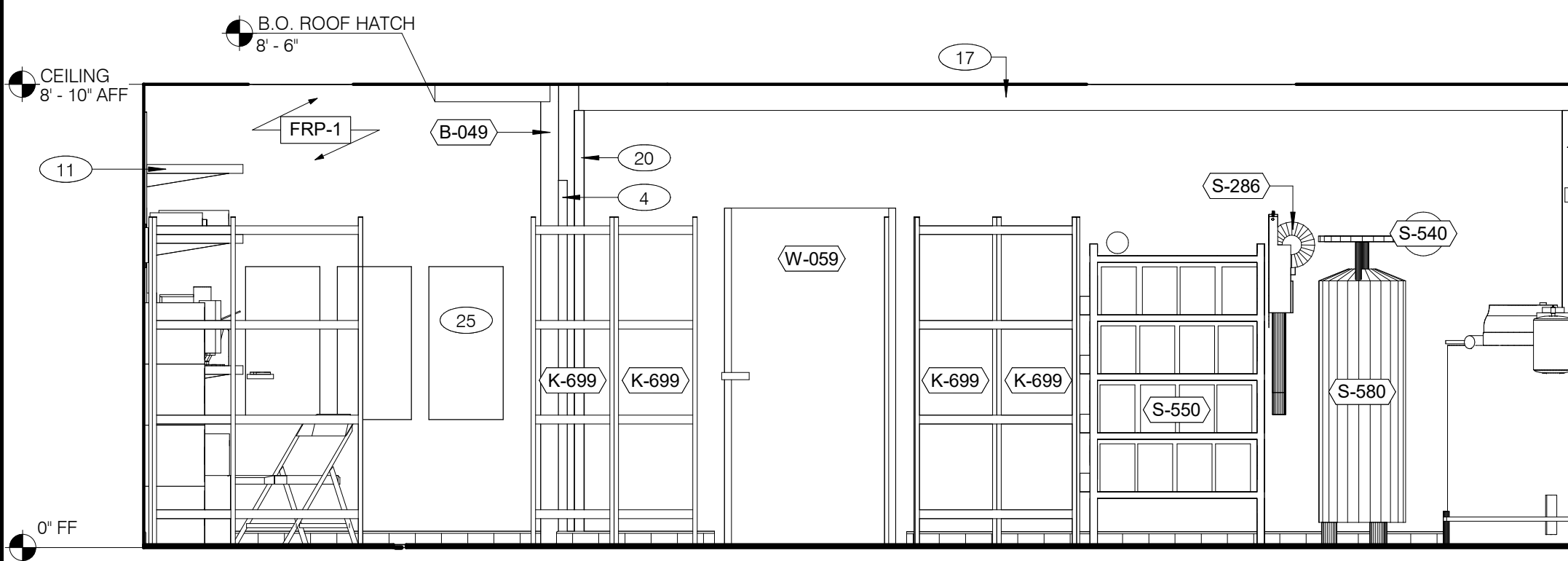
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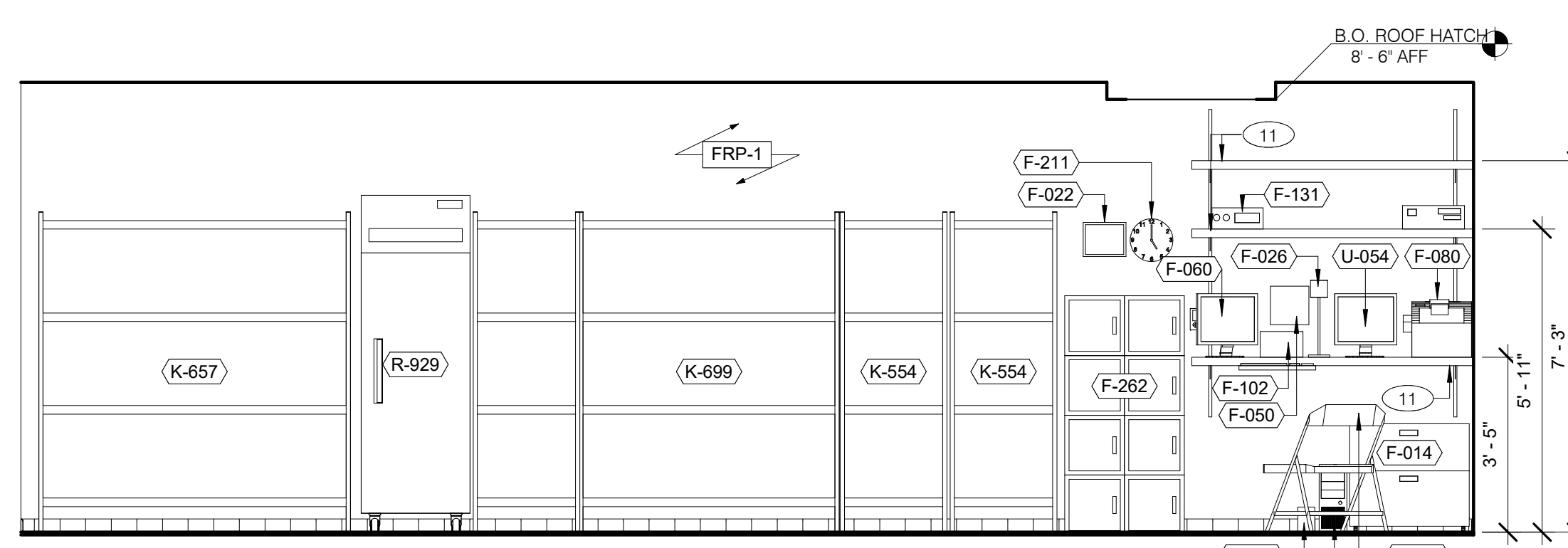
DRIVE-THRU / PREP 3/8" = 1'-0" **2**



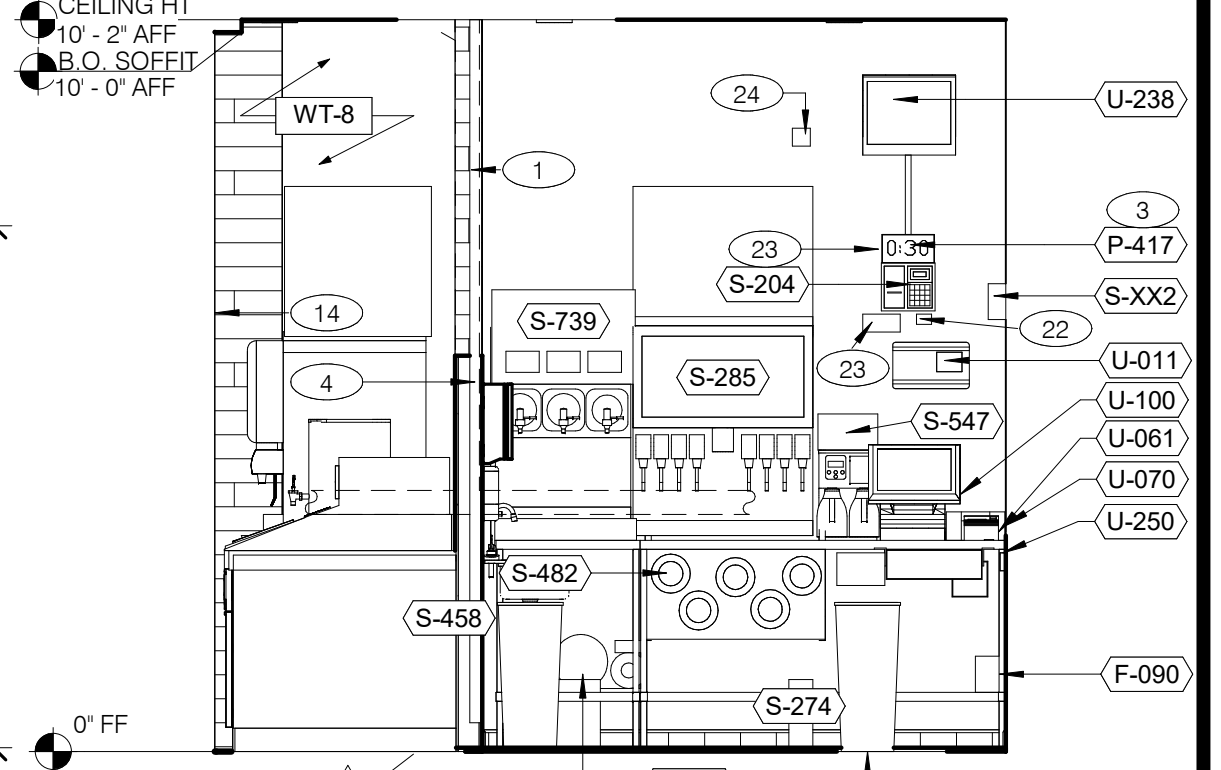
DRIVE-THRU / PREP 3/8" = 1'-0" **1A**



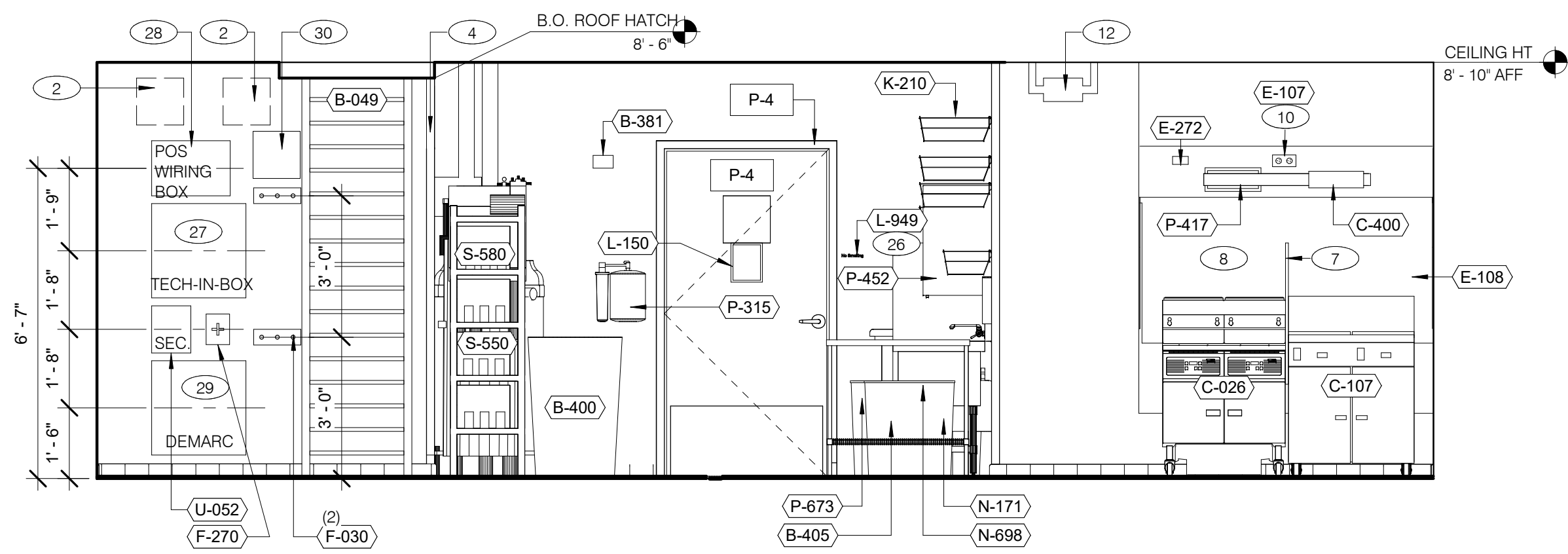
DRY STORAGE / UTILITY / OFFICE 3/8" = 1'-0" **5**



DRY STORAGE / UTILITY / OFFICE 3/8" = 1'-0" **4**

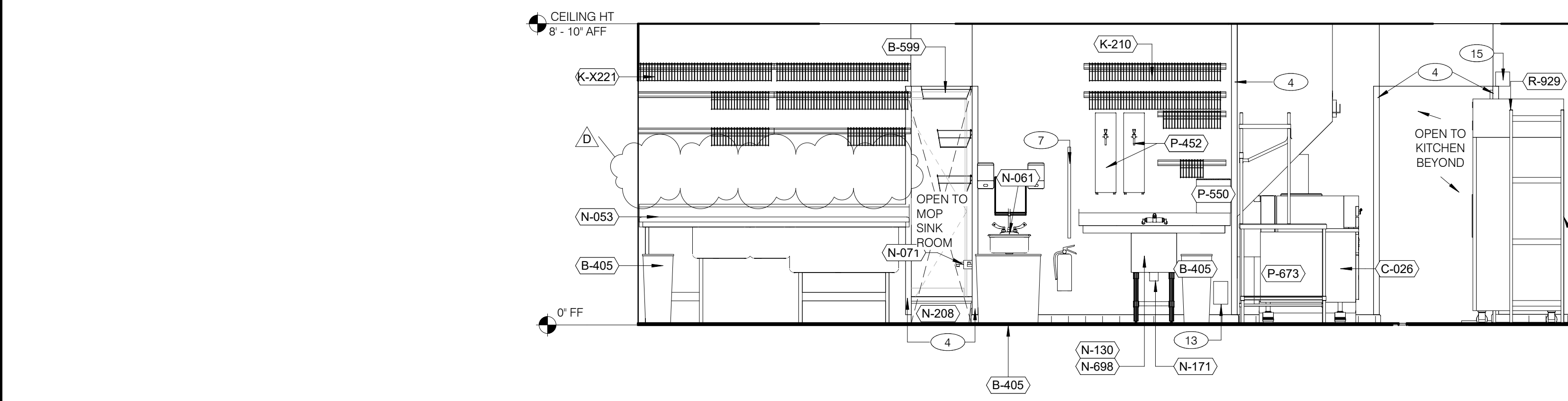


DRIVE-THRU 3/8" = 1'-0" **3**



TB COOK / UTILITY 3/8" = 1'-0" **6**

- 1 BUNDLED PVC SYRUP LINES & ICE MACHINE REFRIGERANT LINES
- 2 FAN MOTOR STARTERS, SURFACE MOUNTED. (2) TYP.
- 3 DRIVE-THRU TIMER DISPLAY UNIT.
- 4 SS CORNER / END WALL CHANNEL GUARD, FULL HEIGHT. SEE DETAIL 13/A6.5.
- 5 REMOVABLE FRP PANEL AT DRINK STATION.
- 6 SS CORNER GUARDS AT PERIMETER OF D/T WINDOW. SEE DETAIL 10/A6.4 AND SCOPE OF WORK FOR RESPONSIBILITIES.
- 7 SPLASHGUARD. SEE DETAIL 9/A6.5.
- 8 SS PANEL BEHIND HOOD.
- 9 ANSUL PULL STATION.
- 10 J-BOX AND OUTLET INCLUDED WITH HOOD. INSET WITH FLUSH WITH FACE OF HOOD.
- 11 SHELF BY G.C. FINISH WITH PLASTIC LAMINATE DL-3.
- 12 GAS SHUT-OFF VALVE.
- 13 FILTER FOR HOT WATER SYSTEM.
- 14 METAL TILE EDGE DETAIL AT CORNER. SEE DETAIL 20/A6.5.
- 15 ALERT LIGHT BOX FOR POWER SOAK
- 16 COUNTER BY G.C.
- 17 VERTICAL ACT BORDER ABOVE WALK-IN/ BELOW CEILING. SEE DETAIL 9/A6.6.
- 18 NOT USED.
- 19 S.S. EDGE BELOW STOREFRONT AND ABOVE COUNTER TOP. SEE DETAIL 19/A6.5.
- 20 VERTICAL S.S. BORDERS AT GAP BETWEEN WALK-IN COOLER WALLS AND FRAMED WALLS.
- 21 FLY FAN.
- 22 DT TIMER SIGNAL PROCESSOR.
- 23 DT TIMER MONITOR AND CONTROL UNIT.
- 24 DT TIMER ETHERNET SWITCH.
- 25 ELECTRIC PANELS.
- 26 NO SMOKING SIGN
- 27 TECH-IN-A-BOX: REFER TO E3.1. G.C. TO PROVIDE BLOCKING WHERE REQUIRED.
- 28 WIRING CABINET BY POS PROVIDER
- 29 TELEPHONE TERMINAL BOARD
- 30 12"X12" PHONE DISTRIBUTION BOX: OWNER PROVIDED AND INSTALLED.
- 31 COORDINATE W/ OWNER ON EQUIPMENT FIT



PREP 3/8" = 1'-0" **7**

KEY NOTES **A**

08.06.18	ISSUED FOR CONSTRUCTION
D 07.11.18	HEALTH COMMENTS
06.20.18	ISSUED FOR BID
B 06.07.18	CLIENT COMMENTS
A 05.24.18	HEALTH COMMENTS
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

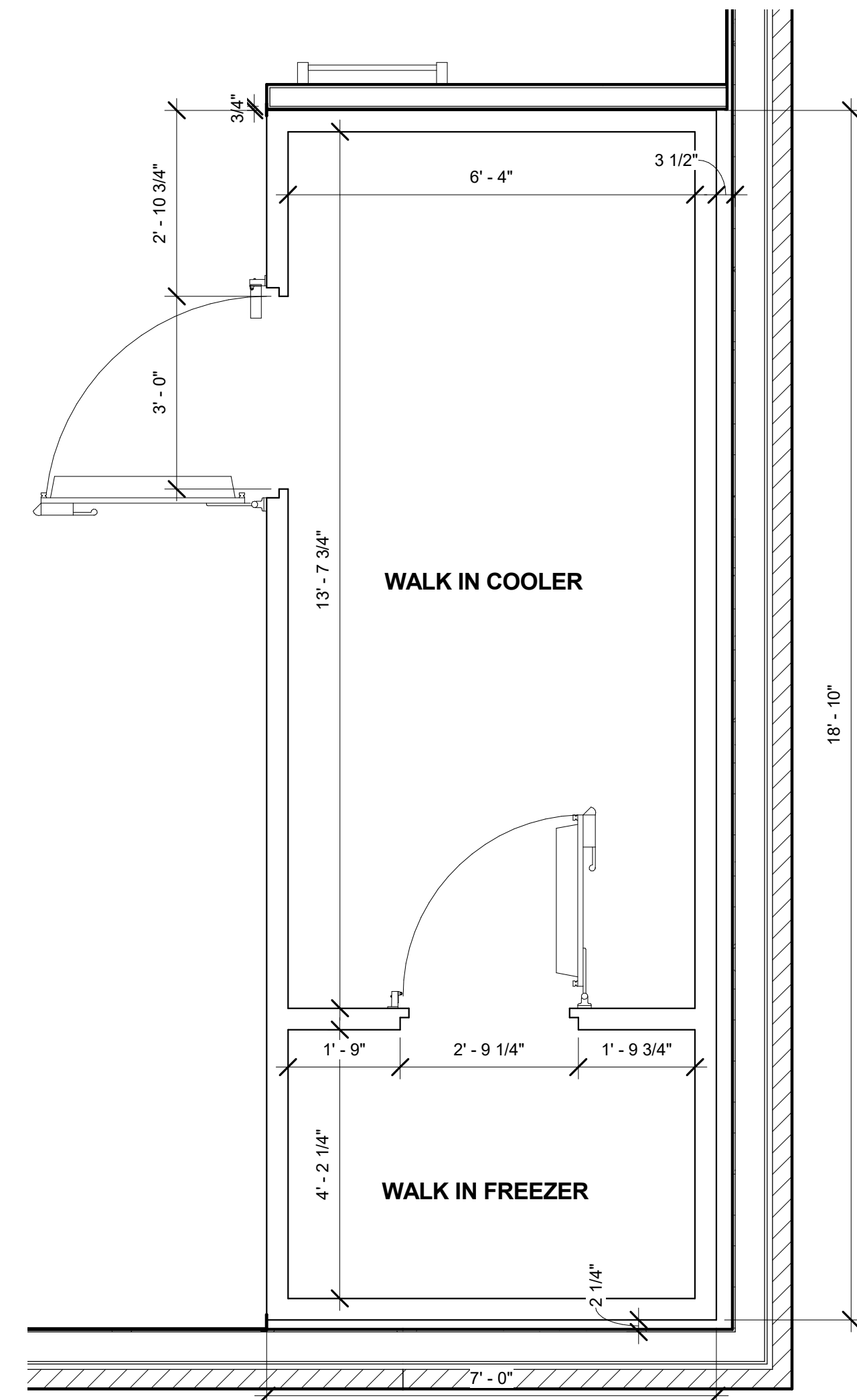
TACO BELL
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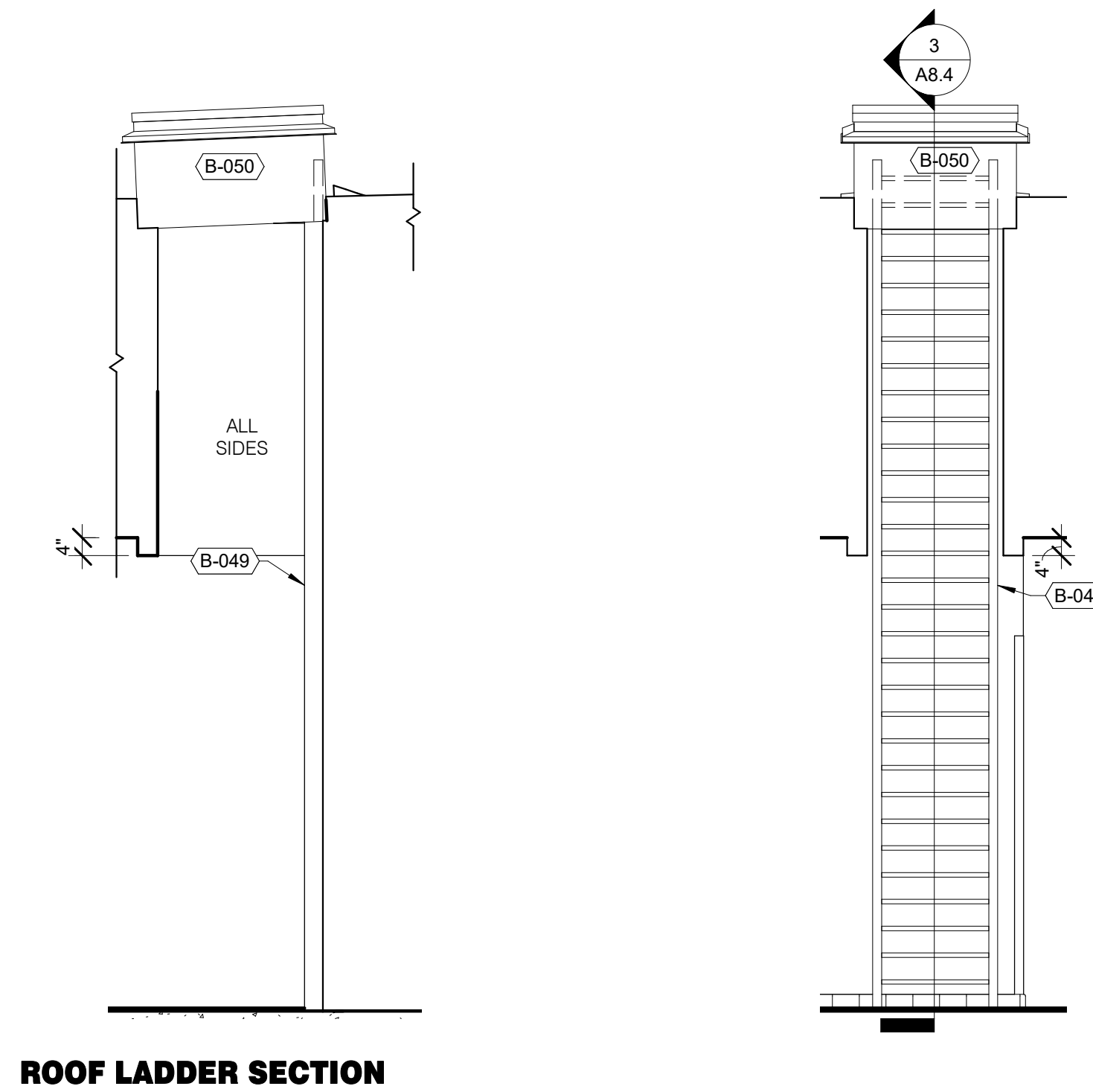
INTERIOR ELEVATIONS KITCHEN

A8.3

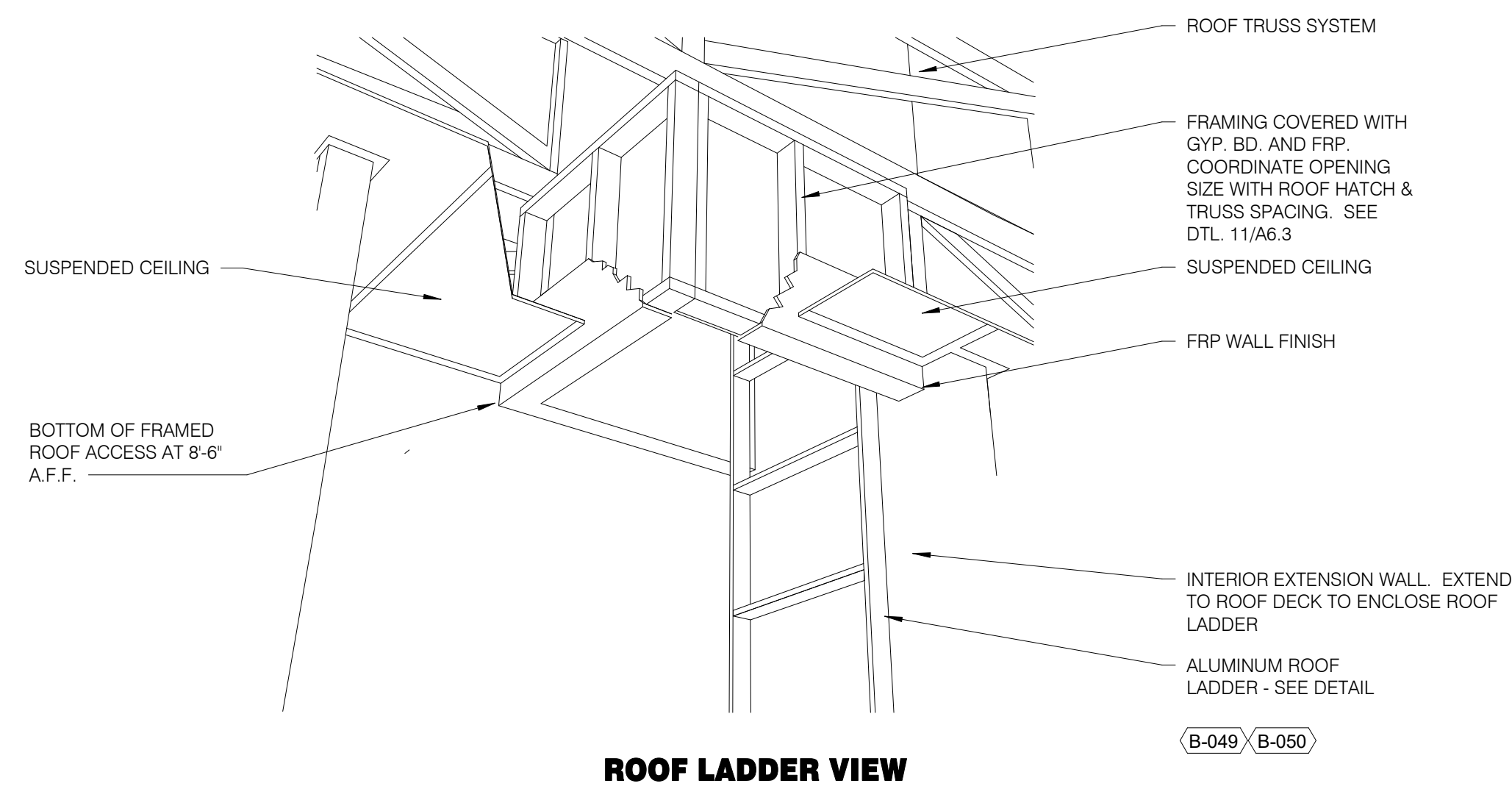
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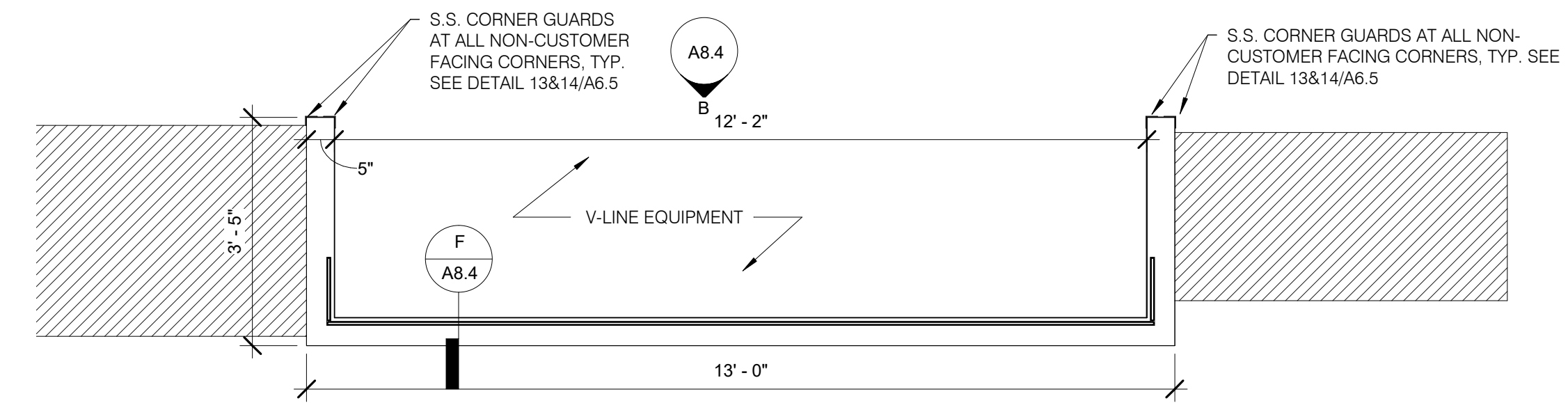
WALK-IN COOLER AND FREEZER - ENLARGED PLAN N.T.S. **E**



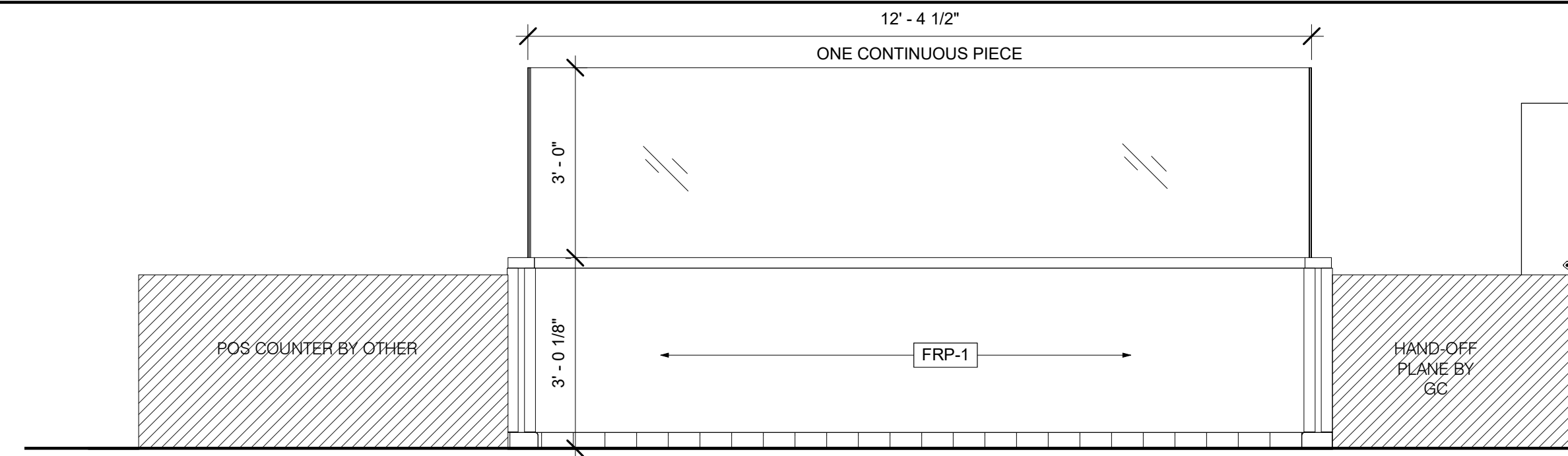
ROOF LADDER SECTION



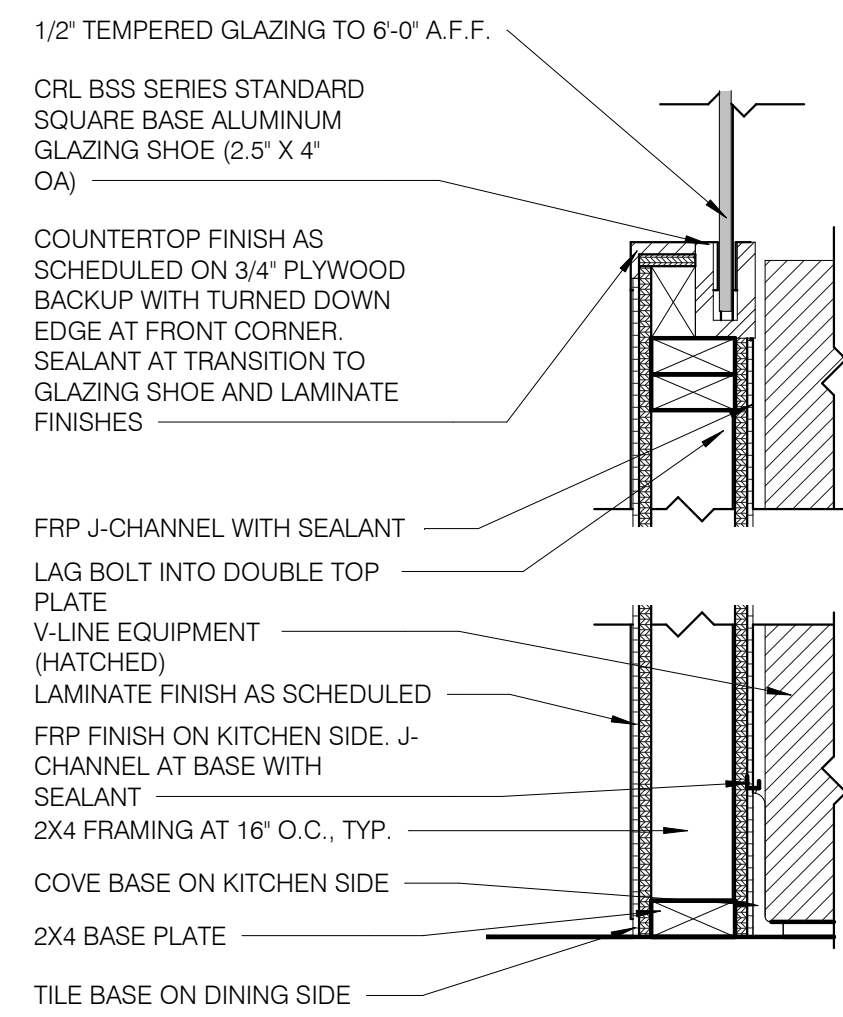
ROOF LADDER VIEW



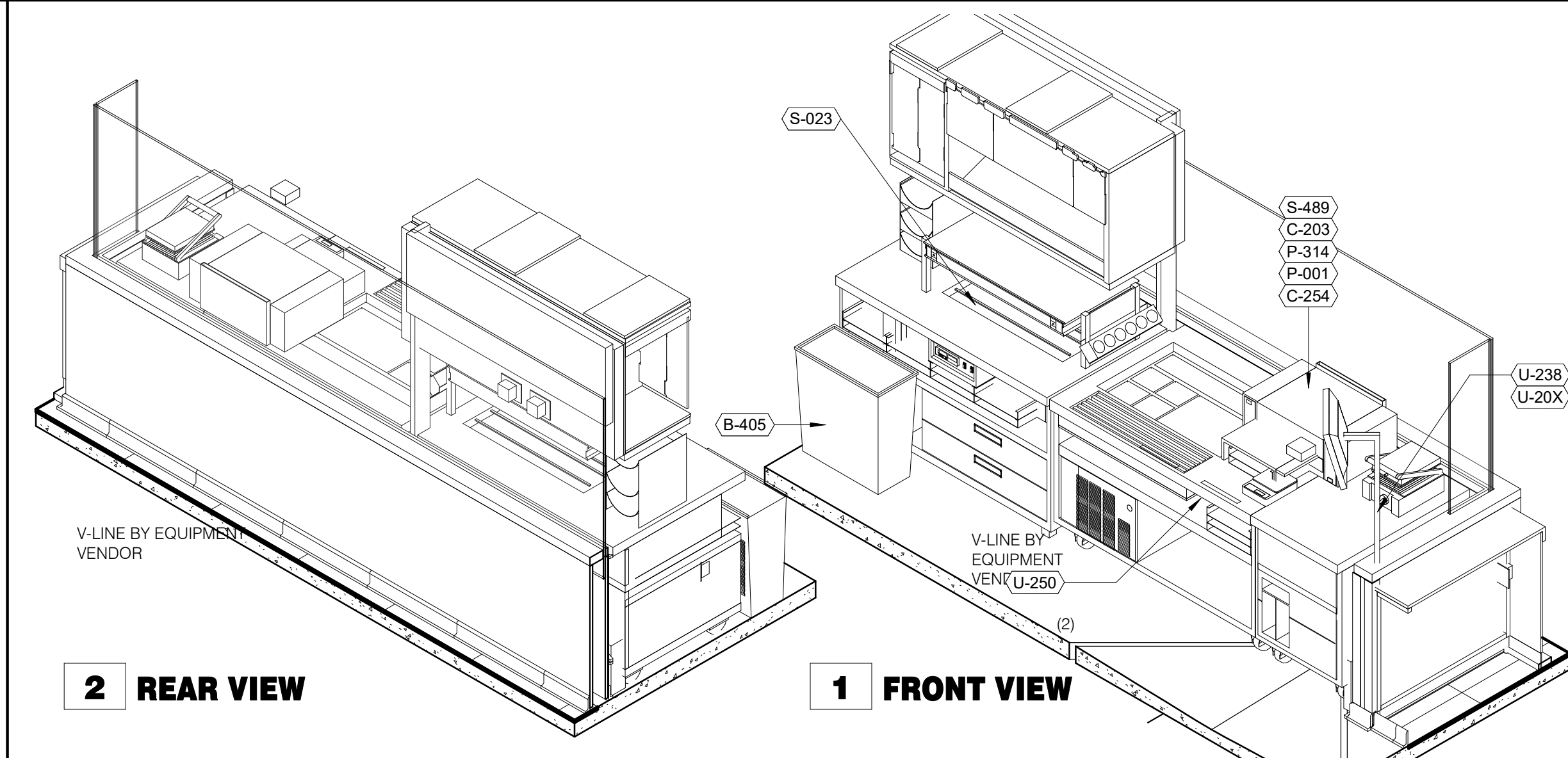
ENLARGED POS DIE-WALL PLAN 1/2" = 1'-0" **A**



POS DIE-WALL ELEVATION 1/2" = 1'-0" **B**



POS DIE-WALL DETAILS 1 1/2" = 1'-0" **F**



2 REAR VIEW

1 FRONT VIEW

V LINE N.T.S. **C**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

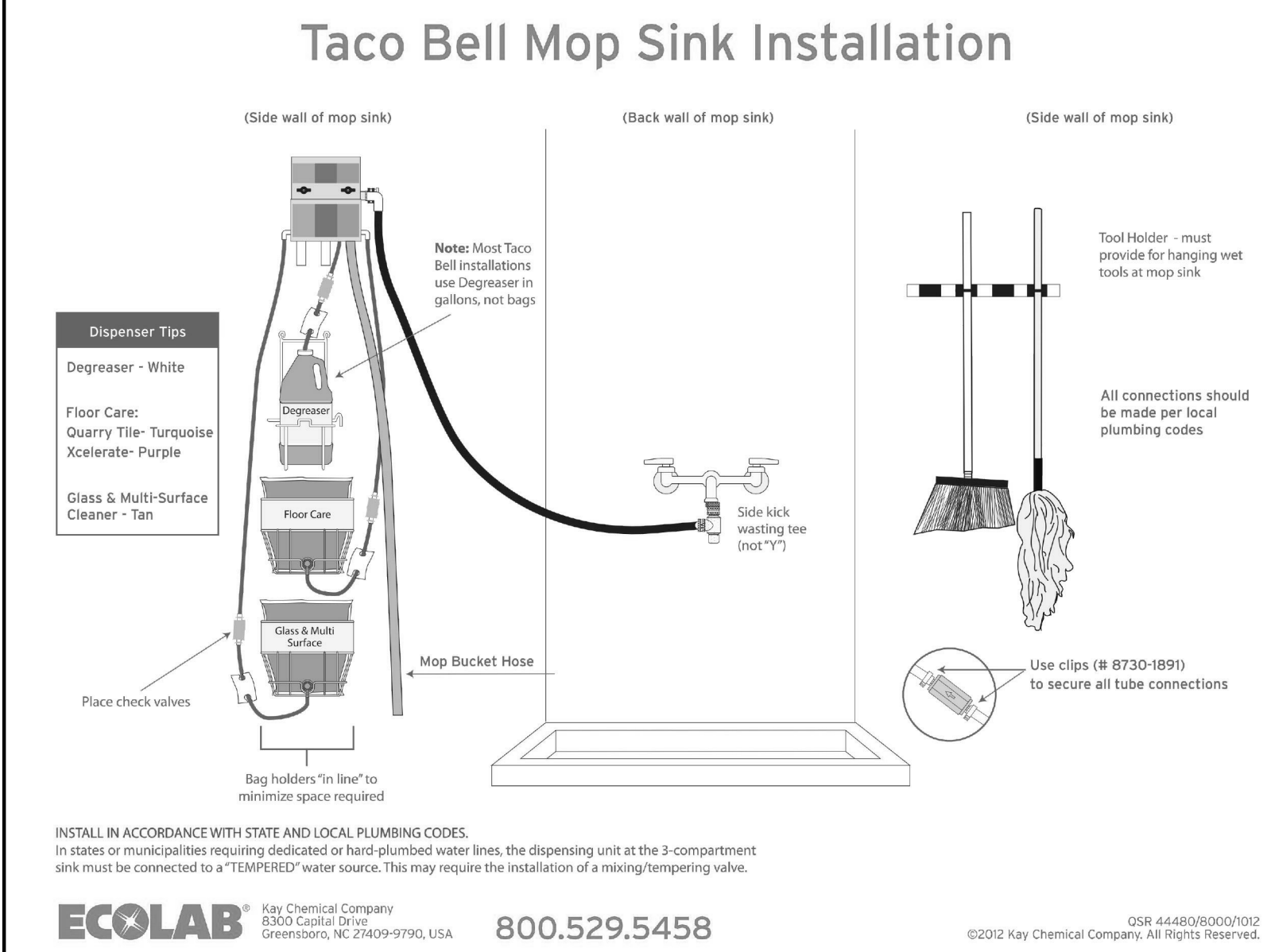
TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

KITCHEN DETAILS

A8.4

PLOT DATE: 8/7/2018 3:44:39 PM



ECOLAB Kay Chemical Company
8302 Capital Drive
Greensboro, NC 27409-9790, USA 800.529.5458

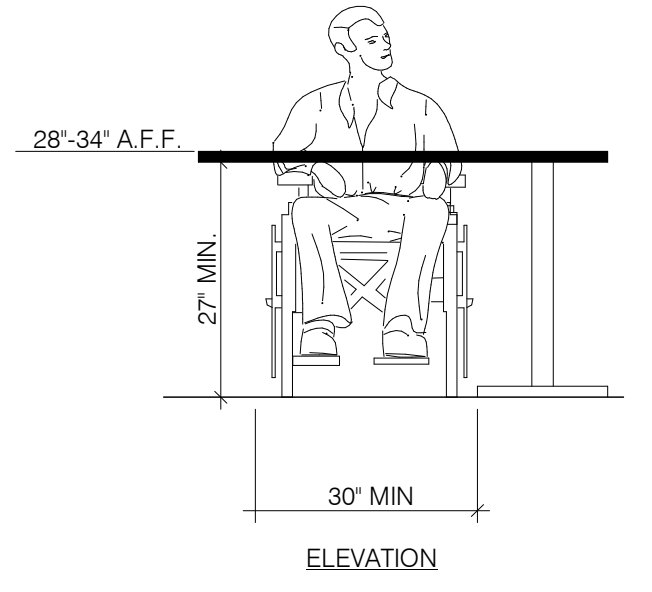
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ROOF ACCESS PASSAGEWAY N.T.S. **G**

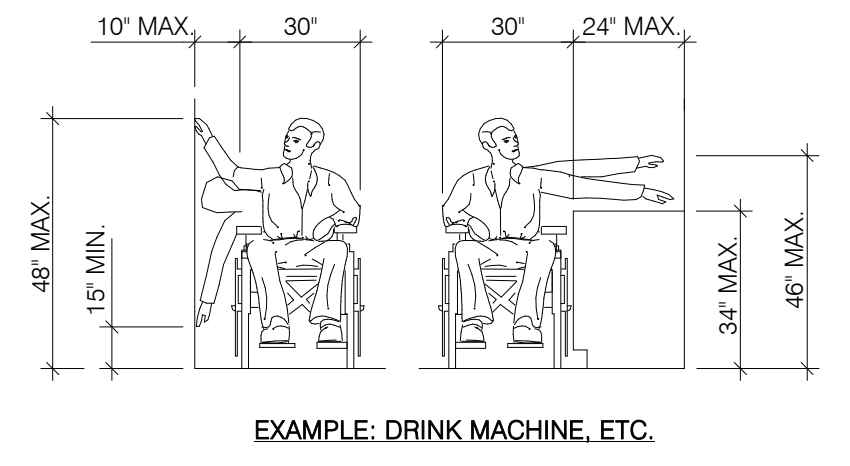
MOP SINK INSTALLATION **D**

TOTAL SEATS	ACCESSIBLE SEATS
1 - 20	1
21-40	2
41-60	3
61-80	4
81-100	5
101-120	6
121-140	7

NUMBER OF ACCESSIBLE SEATS

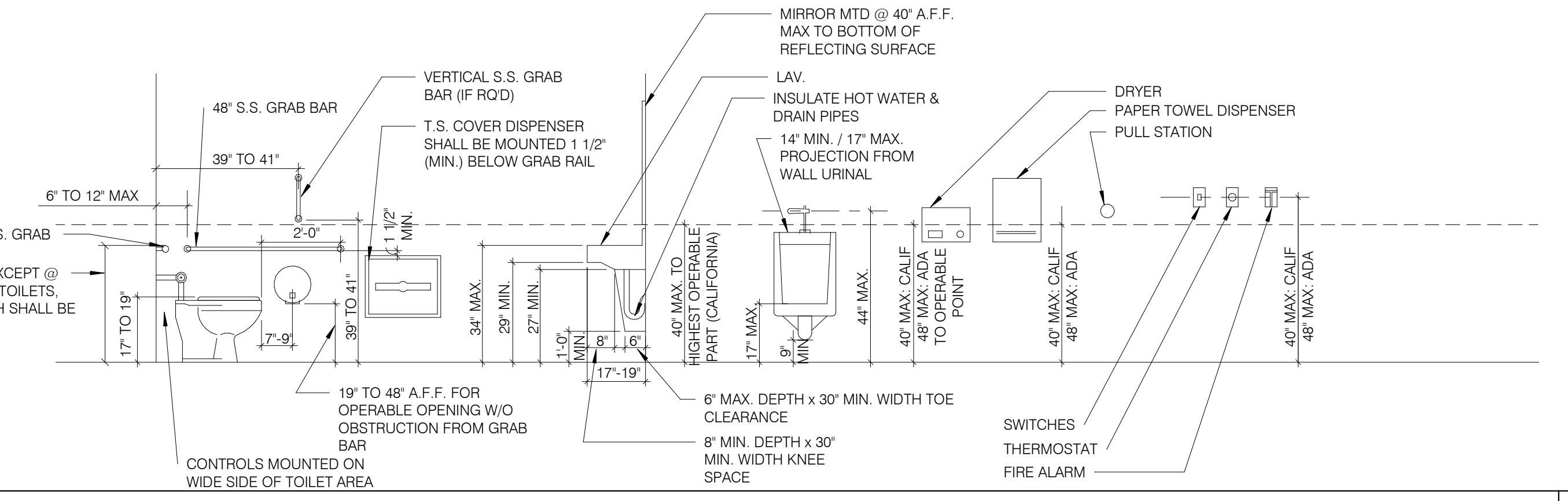


SEATING AND TABLES N.T.S. **18**

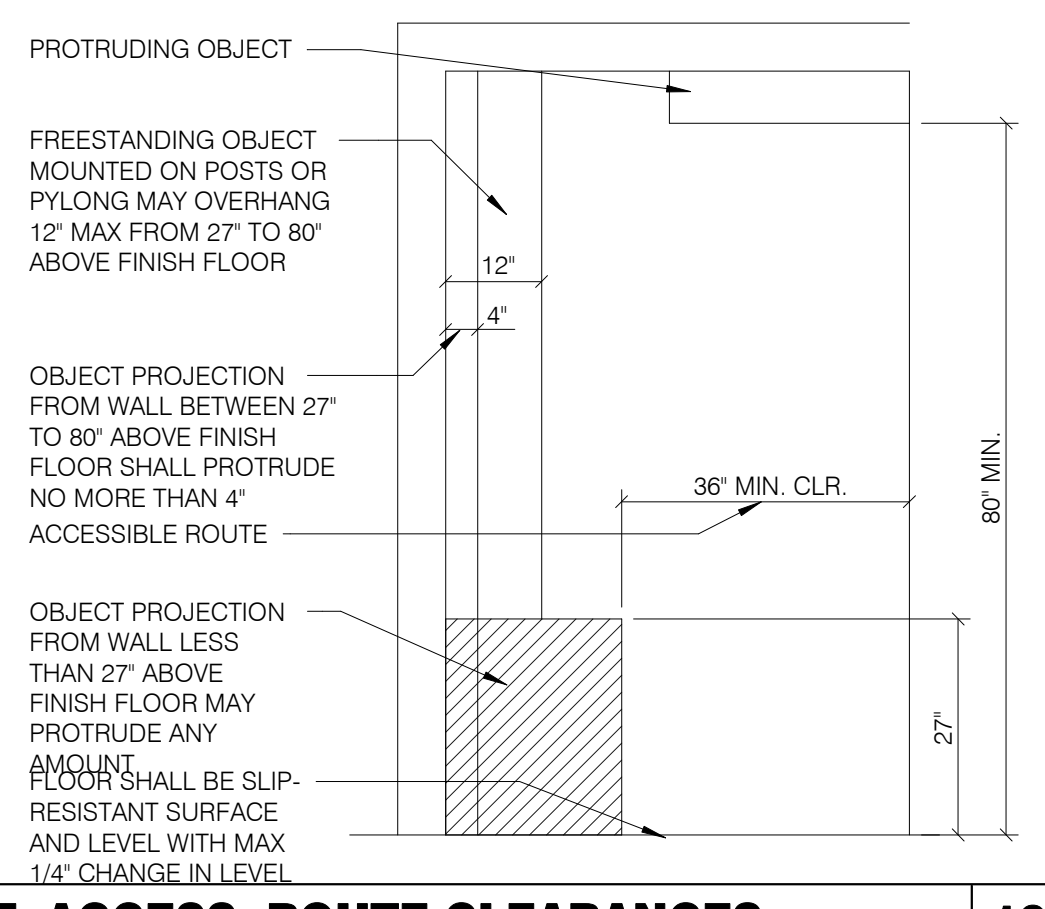


REACH RANGES N.T.S. **14**

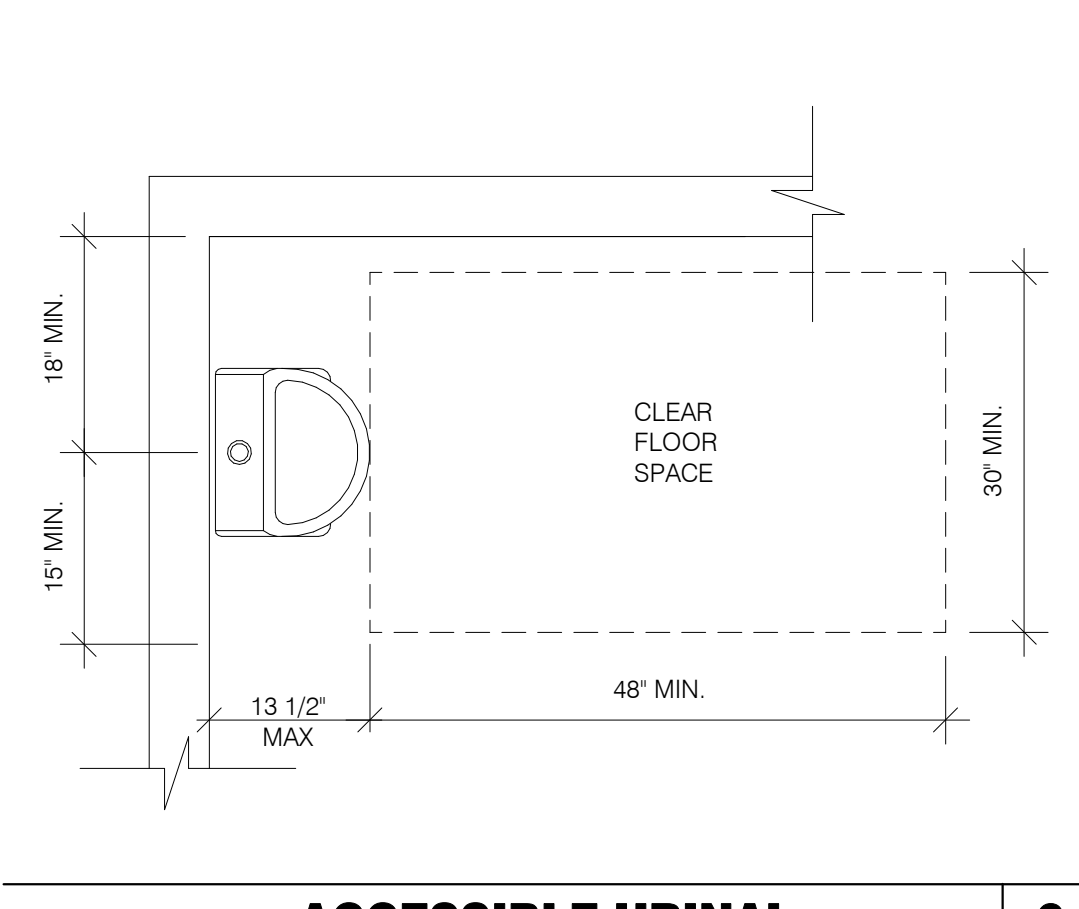
- NOTES:
- TOP OF GRIPPING SURFACE 33" TO 36" MAX TO THE TOP OF THE BAR. SEE NOTES BELOW
 - 12" MINIMUM CLEAR ABOVE GRAB BAR



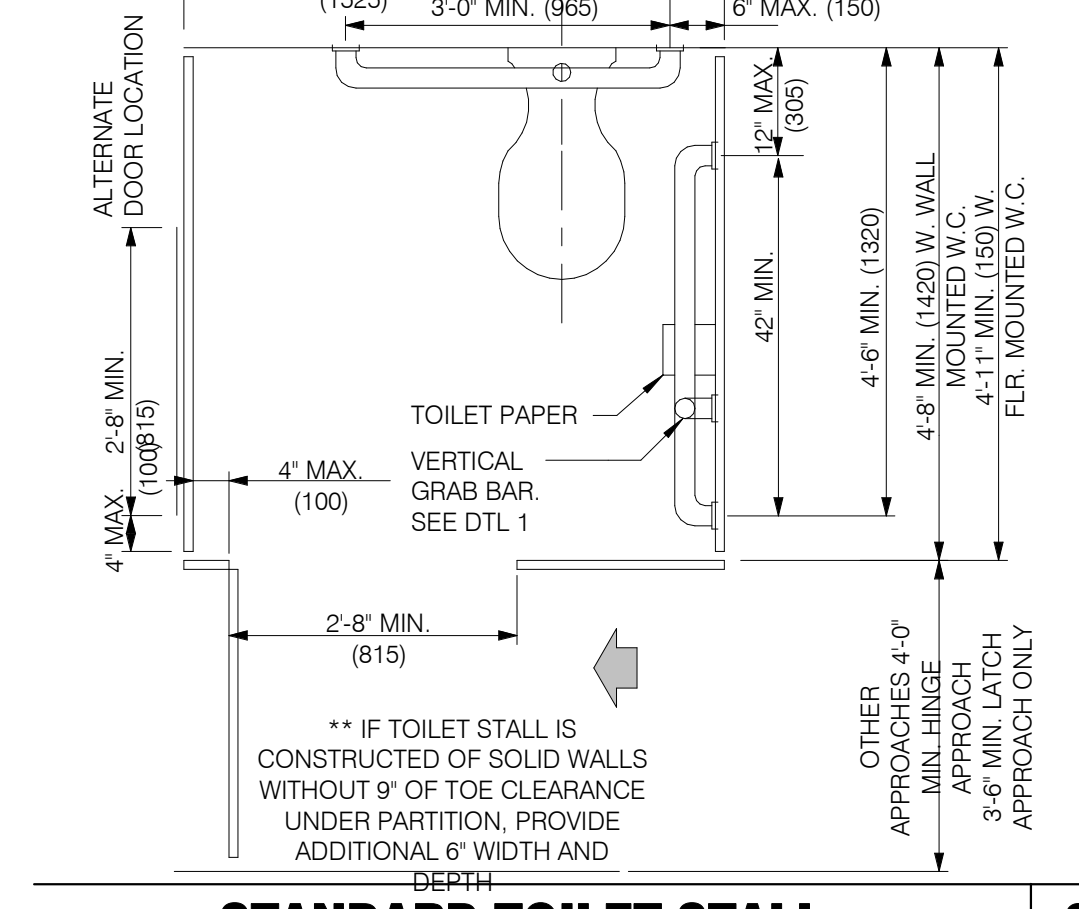
MOUNTING HTS. & CLEARANCE FOR ACCESSIBILITY BY THE DISABLED N.T.S. **1**



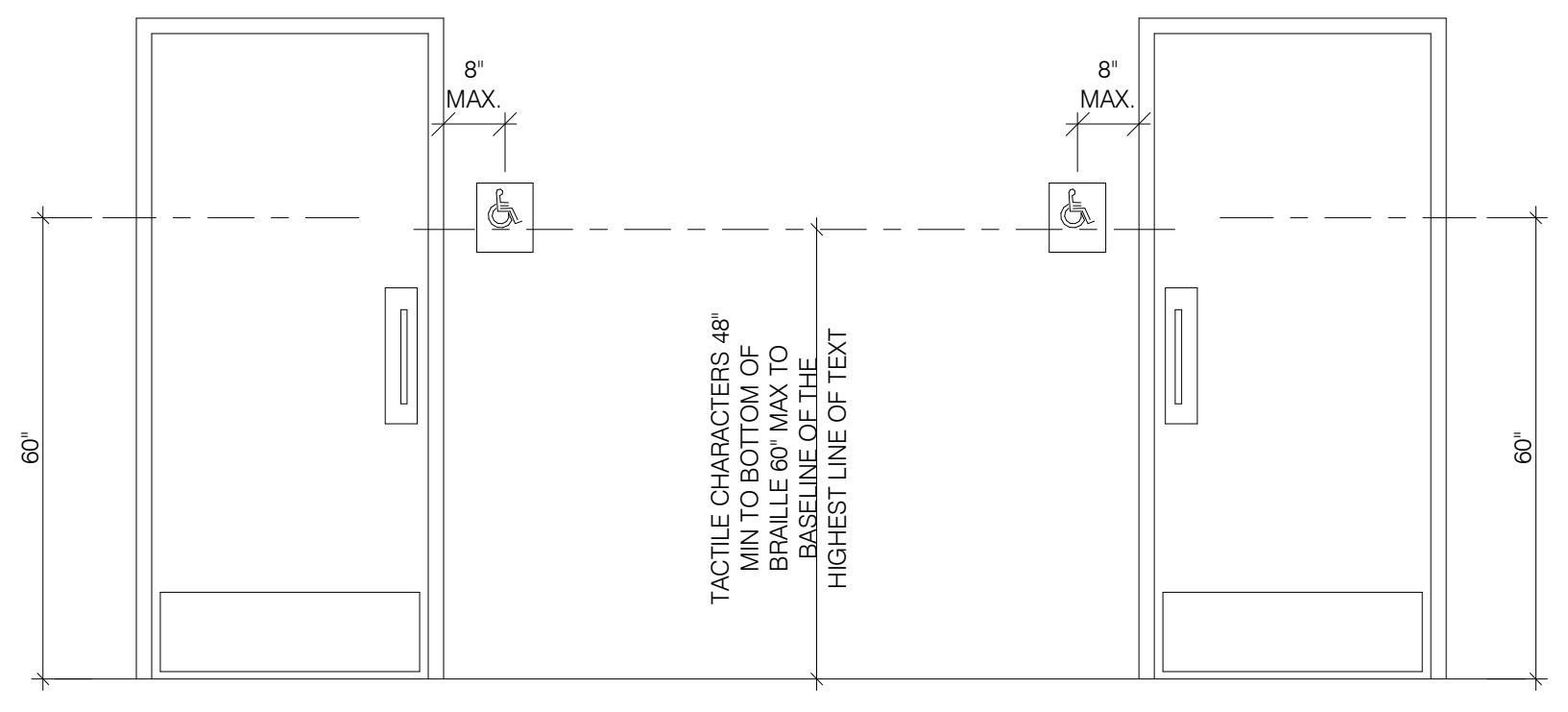
INT. ACCESS. ROUTE CLEARANCES 1/2" = 1'-0" **10**



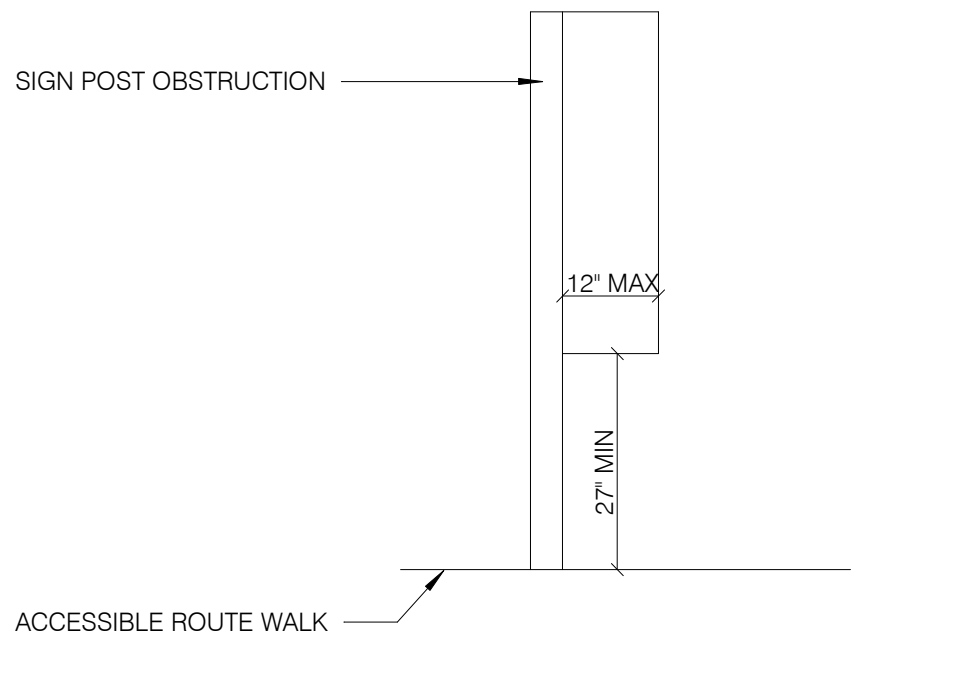
ACCESSIBLE URINAL 3/4" = 1'-0" **6**



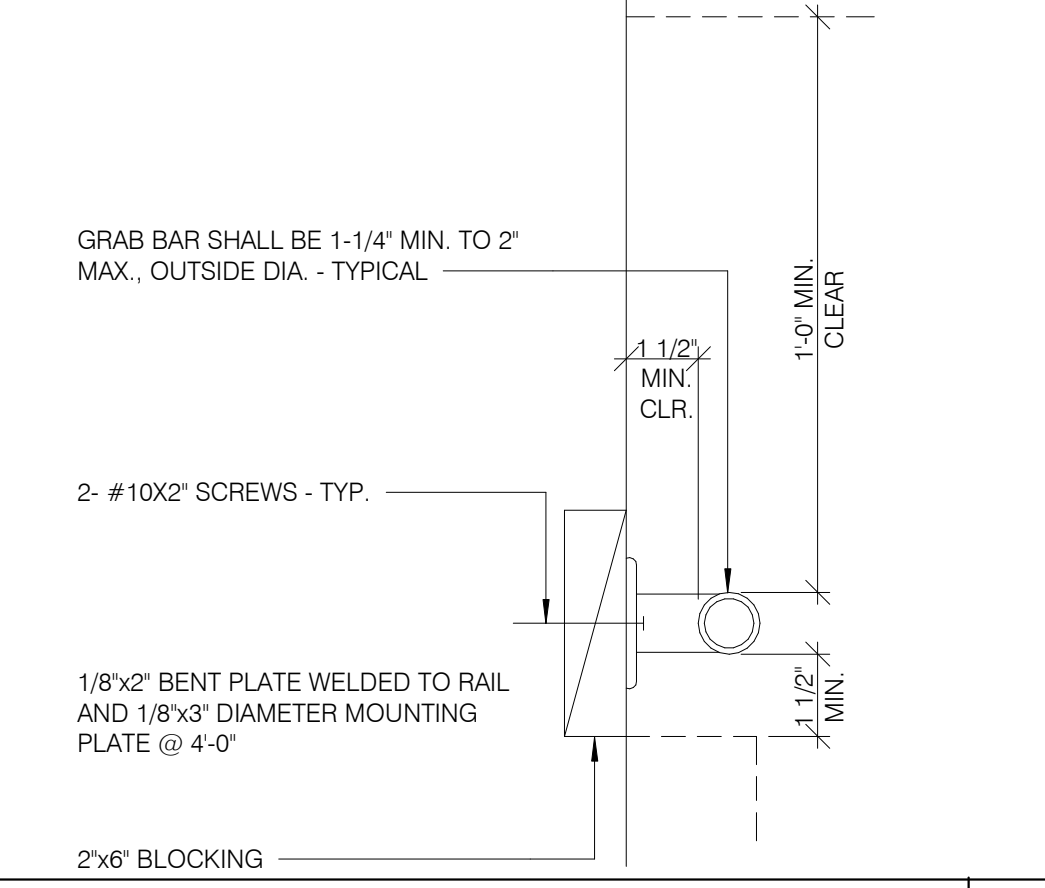
STANDARD TOILET STALL N.T.S. **2**



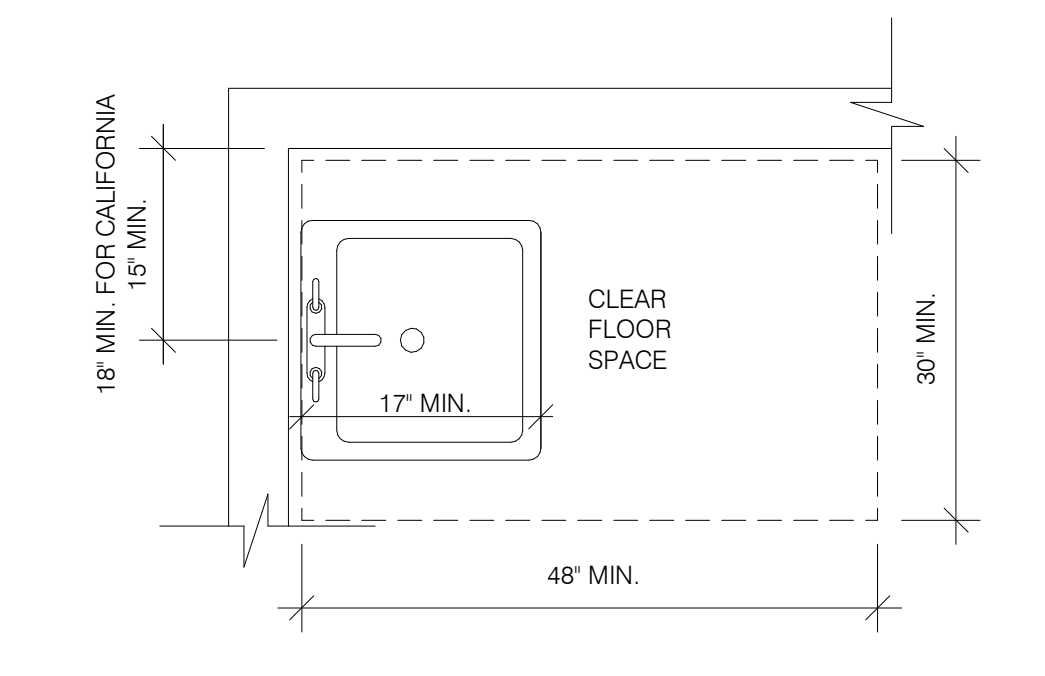
ACCESSIBLE RESTROOM DOORS N.T.S. **15**



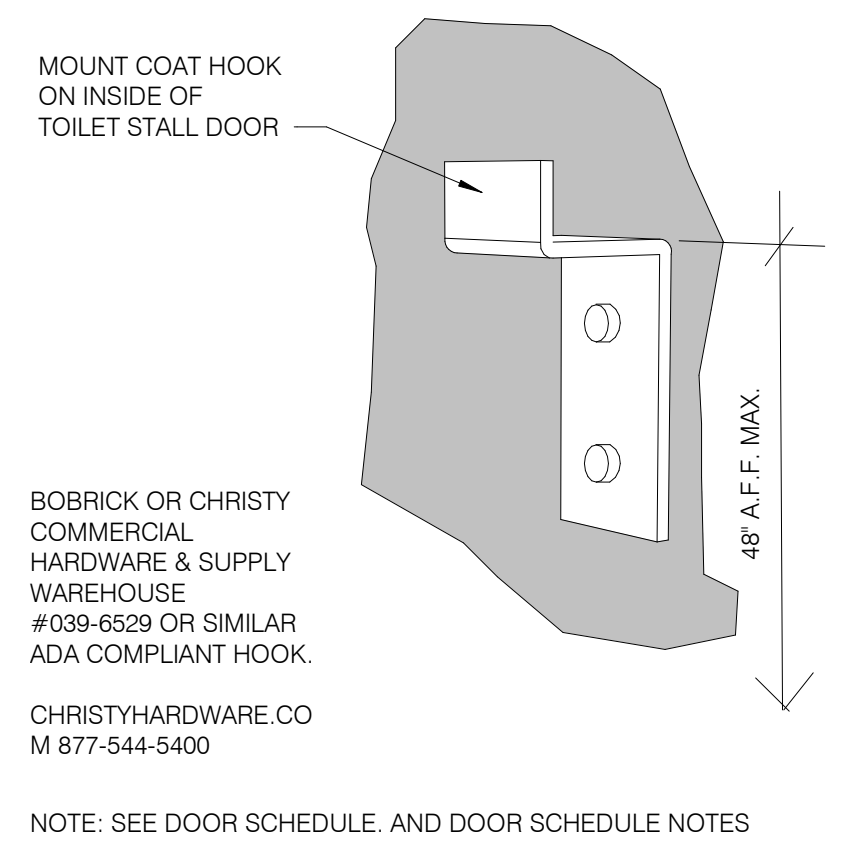
PROTRUDING HAZARDS 1/2" = 1'-0" **11**



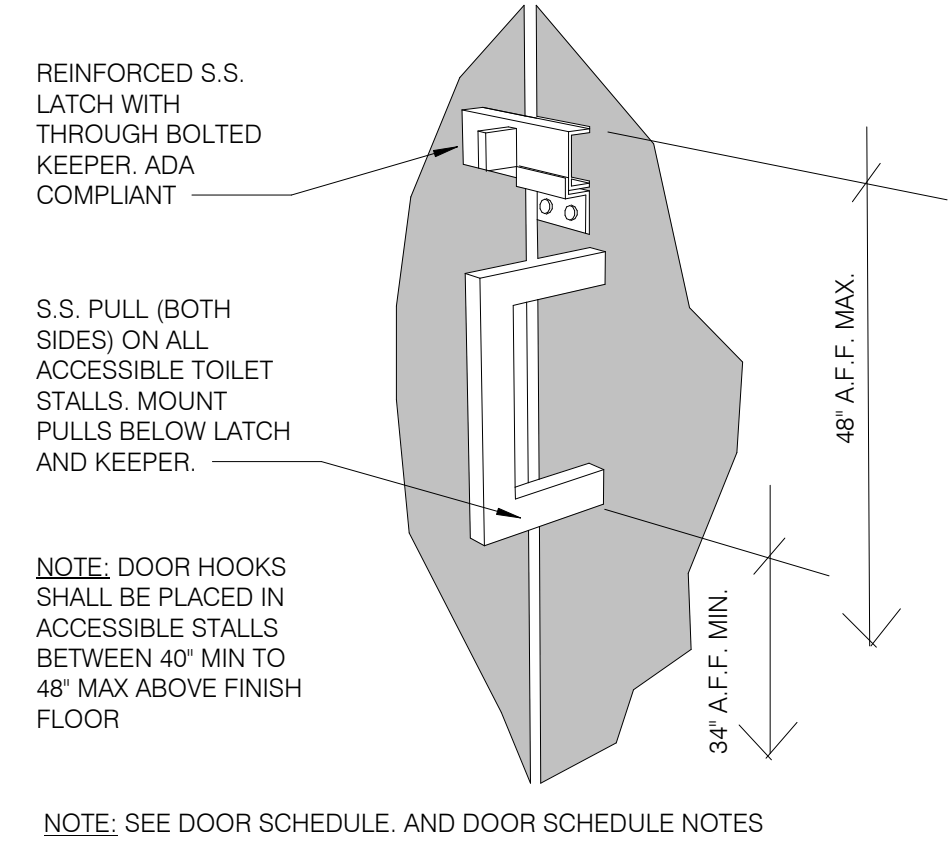
GRAB BAR 3/4" = 1'-0" **7**



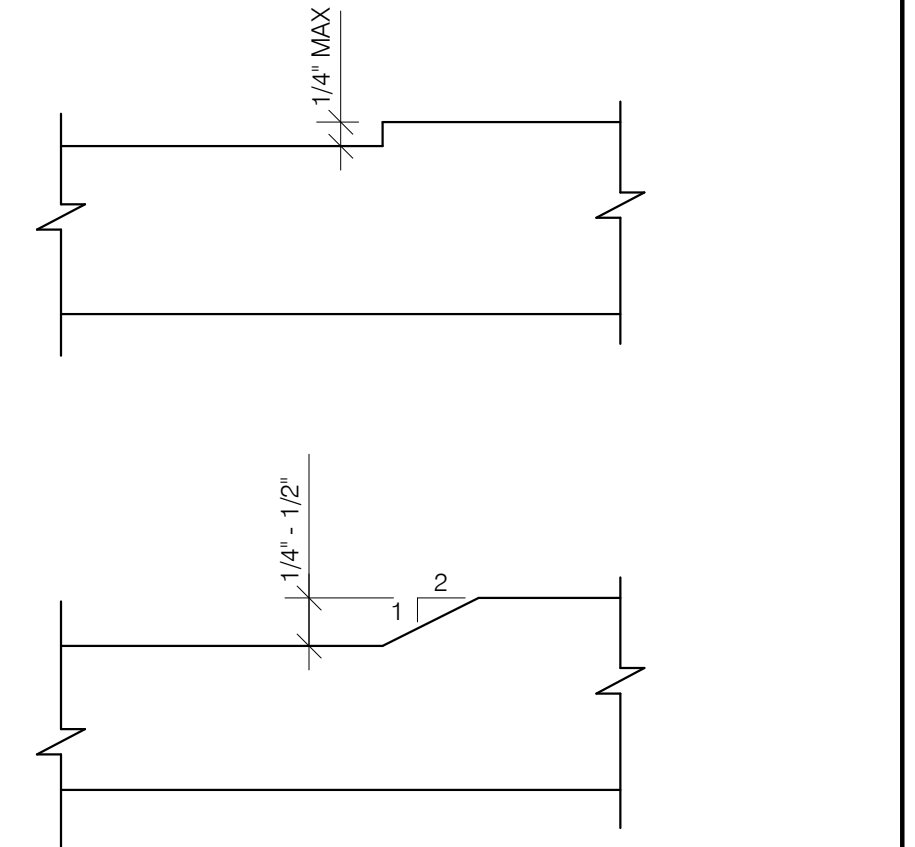
ACCESSIBLE LAVATORY 3/4" = 1'-0" **3**



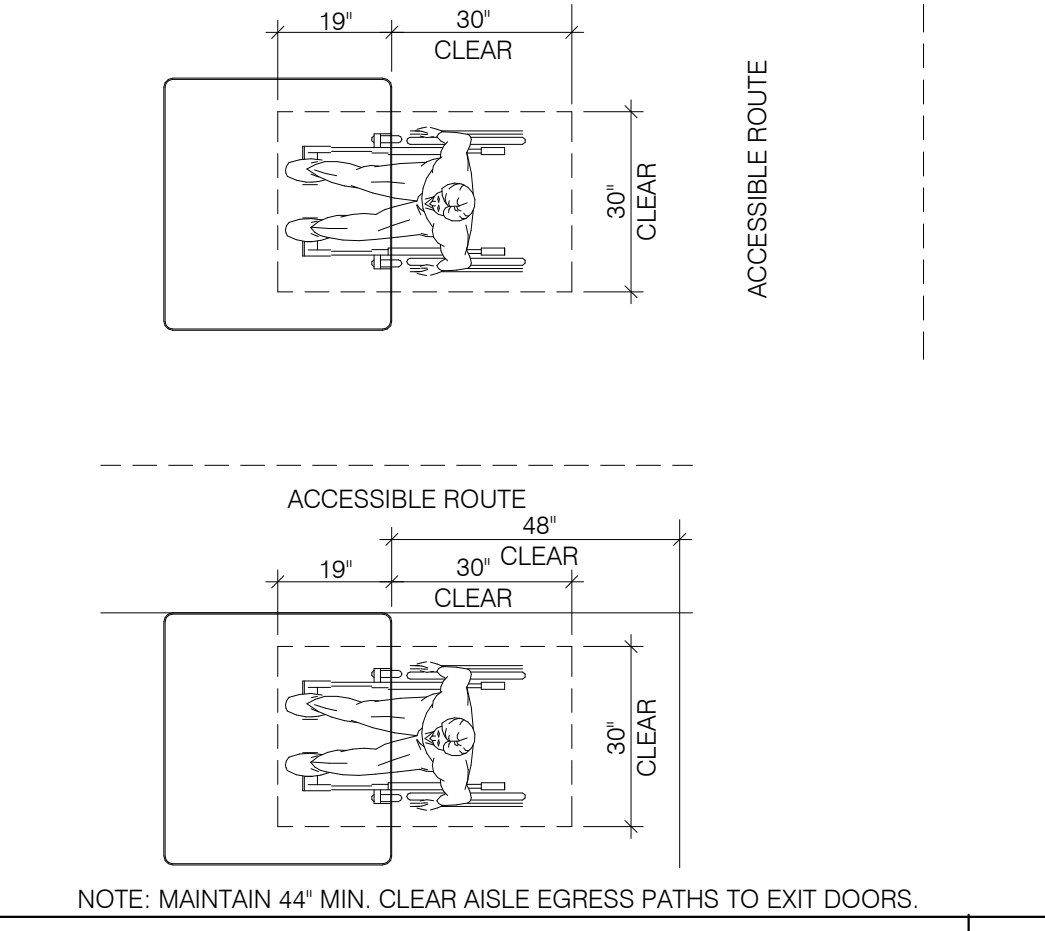
COAT HOOK N.T.S. **20**



PARTITION DOOR LATCH @ PULL **16**



CHANGES IN LEVEL **12**



DINING ROOM SEATING CLEARANCES **8**

- 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.
- 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"
- 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.
- TOILET ROOM MUST ALLOW FOR SIDE TRANSFER - 42" BETWEEN FIXTURES
- ALL BARRIER FREE SIGNS SHALL BE WHITE ON A BLUE BACKGROUND.

GENERAL NOTES **4**

DATE	DESCRIPTION
08.06.18	ISSUED FOR CONSTRUCTION
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04.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

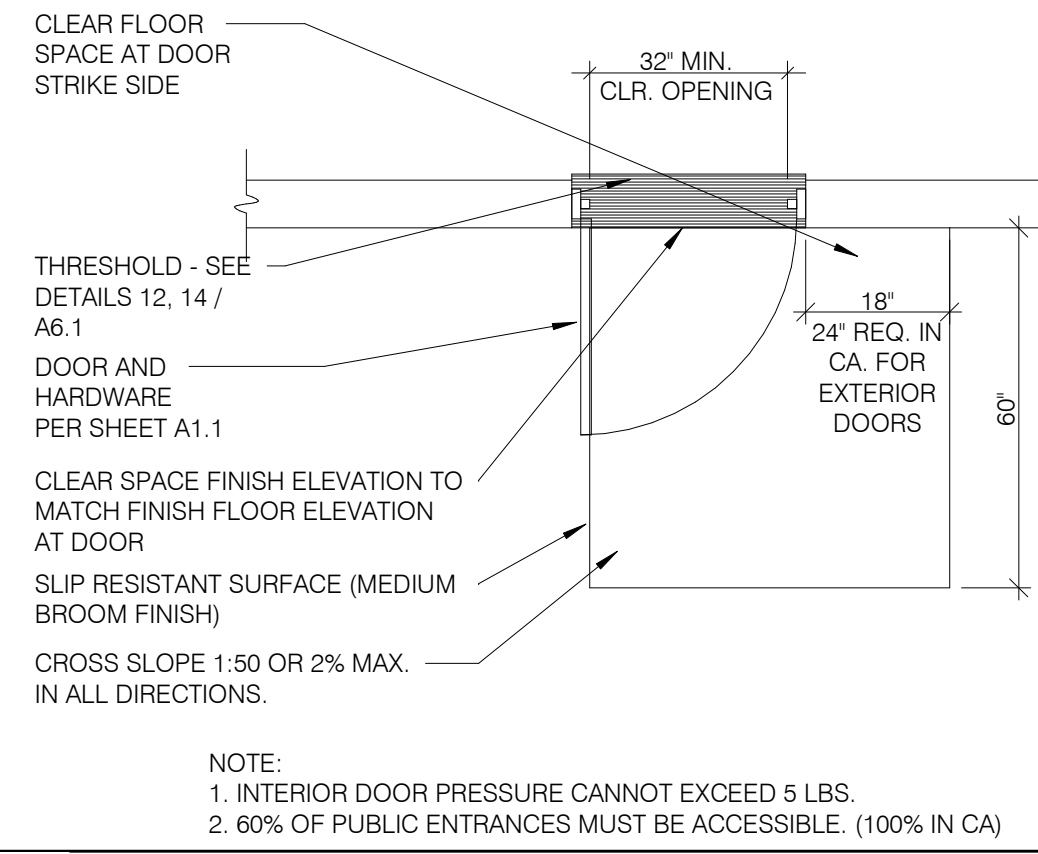
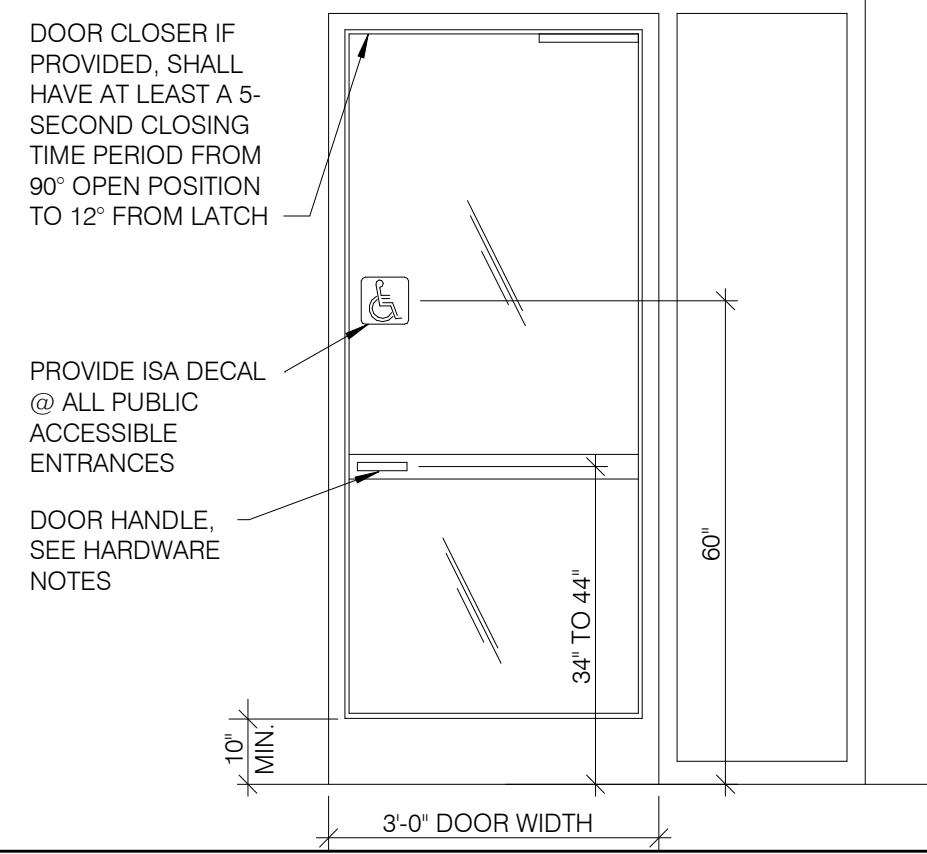
TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195

T40
OPEN KITCHEN
MODERN EXPLORER

ACCESSIBILITY REQUIREMENTS

ADA1.0

PLOT DATE: 8/7/2018 8:59:51 AM

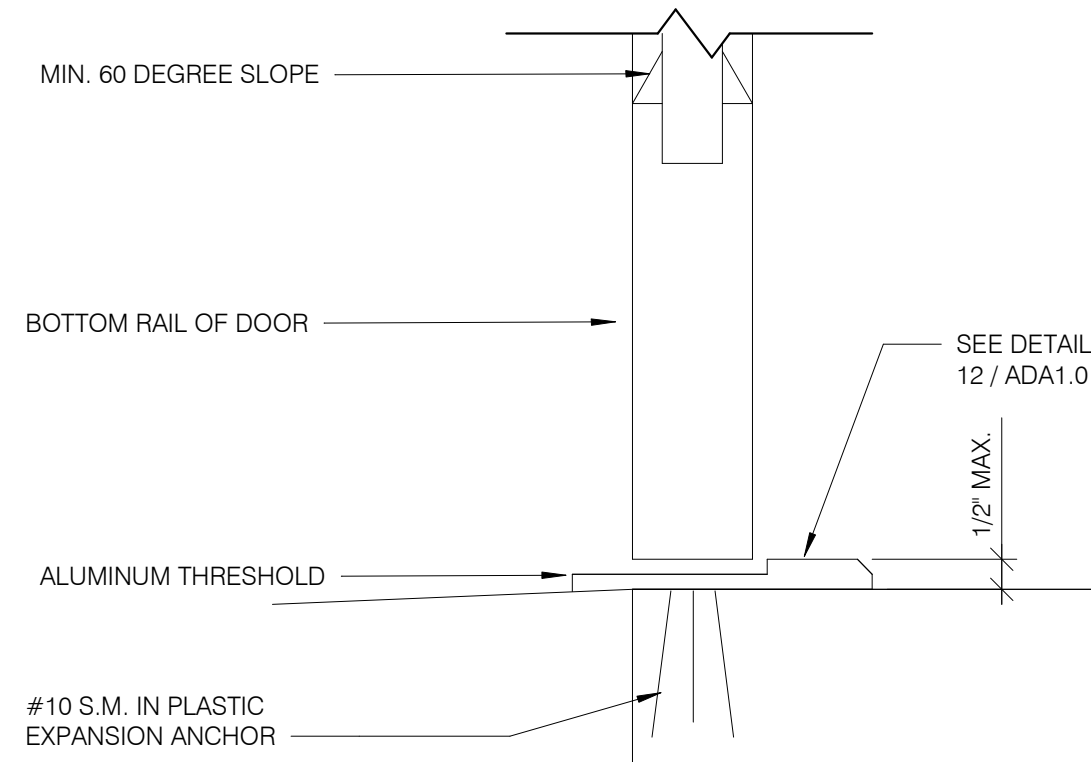


TYP. ENTRANCE / EXIT DOOR 12' = 1'-0"

9

EXTERIOR DOOR REQUIREMENT 12' = 1'-0"

6



BOTTOM RAIL (EXTERIOR DOOR) 3' = 1'-0"

7

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06.20.18	ISSUED FOR BID
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CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312529/445209
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TACO BELL
 19000 NORTHLINE ROAD
 SOUTHGATE, MI 48195

TACO BELL
 T40
 OPEN KITCHEN
 MODERN EXPLORER

ACCESSIBILITY REQUIREMENTS

ADA1.1

GENERAL:

- LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
- 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 THE KITCHEN EQUIPMENT.
- PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

HVAC:

- INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS.
- ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
- E.C. SHALL PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS. M.C. SHALL PROVIDE 24V CONTROL WIRING AND FINAL CONNECTIONS.
- ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE 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.
- FOR INSTALLATION OF RECHARGEABLE REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF, SEE SCOPE OF WORK.
- HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
- ALL SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED.
- ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 14'-0", WHICH MAY BE FLEX.
- SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN AIR DUCT, PRIOR TO ANY OUTSIDE AIR CONNECTIONS, AND SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. INCLUDE SMOKE DETECTOR IN THE SUPPLY AIR DUCT ONLY IF REQUIRED BY LOCAL CODE.
- ALL 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. SEE 15/M4.0.
- ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKEOFFS FOR AIR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS. SEE 4/M4.0.
- ALL UTILITY PIPING FOR RTUS SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
- FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, 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 FOR SAME SHALL BE ALSO INCURRED BY THE GENERAL CONTRACTOR.

MARK	AREA SERVED	FAN DATA					COOLING CAPACITY				HEATING CAPACITY				UNIT ELECT DATA					
		SUPPLY CFM	MIN. O.A. CFM	ESP	HP	RPM	NOMINAL TONS	MIN CAP (MBH)	TOT/SEN	EER	INPUT STAGE (MBH)	OUTPUT (MBH)	HEATING STAGES	AFUE %	VOLTS/PH	MCA (A)	MOCP (A)	WEIGHT (LBS.)	MANUF.	MODEL
RTU-1	DINING	2400	600	1.0'	2	1095	6	77.2/57.9	12.0	108	86	1	81	208/3	32	50	921	LENNOX	LGH072H4BM1Y	1,2,3,4,5,6,7
RTU-2	KITCHEN	4400	950	1.0'	3	970	12.5	145.2/100.2	12.3	240	192	2	80	208/3	64	80	1365	LENNOX	LGH152U4EH1Y	1,2,3,4,5,6,7

SCHEDULE NOTES:

- LISTED CAPACITY IS THE STANDARD UNITS GROSS COOLING CAPACITY AT 80 DEG. F. DB / 67 DEG. F. WB EAT AND 95 DEG. F. AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER 90 DEG. F. & 73 DEG. F. WB, WINTER 0 DEG. F. (ARI STANDARD CONDITIONS). THERMOSTAT SHALL BE PROGRAMMED FOR 73 DEG. F IN SUMMER AND 68 DEG. F IN WINTER WITH 2 DEG.ADJ. FUNCTION UP OR DOWN. THE UNOCCUPIED TEMP SHALL BE SET TO THE STORE SCHEDULE AND 60 DEG. F MINIMUM.
- SPECIFIED RTUS ARE DOWN DISCHARGE PACKAGED GAS / ELECTRIC ROOFTOP UNITS WITH MINIMUM 2-STAGE COOLING. INCLUDES THROUGH THE ROOF CURB POWER, GAS & CONDENSATE DRAIN. GAS PIPING SHALL BE FACTORY PIPED WITH SHUT-OFF OUTSIDE OF UNIT.
- SPECIFIED UNIT INCLUDES HINGED ACCESS DOORS, 2" PLEATED FILTERS, LOW AMBIENT CONTROL TO 0 DEG. F., MODULATING ECONOMIZER, CIRCUIT BREAKER WITH SINGLE POINT WIRING, HAIL GUARD, AND FACTORY FABRICATED, KNOCK DOWN ROOF CURB.
- SPECIFIED UNIT INCLUDES FACTORY INSTALLED GAS REHEAT OPTION, INCLUDING REMOTE MOUNTED TEMPERATURE AND HUMIDITY SENSORS AS INDICATED ON THE DRAWINGS.
- SPECIFIED UNIT INCLUDES SUPPLY AIR TEMPERING CONTROL.
- PROJECT LOCATIONS NEAR COASTAL AREAS MAY REQUIRE EPOXY COATED COILS.
- SPECIFIED RTUS SHALL BE SUPPLIED WITH OVERSIZED INDOOR FAN MOTOR AND EVAPORATOR MOTOR.

HVAC UNIT SCHEDULE

1

Mark	FAN DATA					VOLTS/PH	DRIVE TYPE	MANUFACTURER	MODEL	NOTES
	CFM	ESP	RPM	HP						
EF-1	1050	0.9	1344	1/2	120/1		DIRECT	STRATOVENT	#SVDU50HFA	1,3,5,6,7,8,10
EF-2	300	0.375	1025	1/4	120/1		DIRECT	STRATOVENT	#SVDR30HFA	2,4,7,8,9,10,11

REMARKS:

- UL 762 LISTED (GREASE)
- UL 705 LISTED (HEAT OR STEAM)
- FLAT ROOF CURB, 19.5" X 19.5" X 26"H, VENTED
- FLAT ROOF CURB, 19.5" X 19.5" X 14"H
- GREASE CUP WITH DRAIN
- FACTORY ATTACHED HINGES
- WEATHERPROOF PRE-WIRED DISCONNECT SWITCH
- PROVIDE PRE-WIRED SOLID STATE SPEED CONTROLLER
- GRAVITY BACKDRAFT DAMPER
- PROVIDED BY OWNER WITH HOOD PACKAGE
- PROVIDED WITH DAMPER TRAY

MECHANICAL NOTES

6

SYMBOL & ABBREV.	DESCRIPTION
	SUPPLY AIR (RISE/DROP)
	RETURN AIR DUCT (RISE/DROP)
	EXHAUST AIR DUCT (RISE/DROP)
	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
	RETURN REGISTER/GRILLE
	EXHAUST REGISTER/GRILLE
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
	SINGLE LINING DUCT BRANCH TAKEOFF
	DUCT TRANSITION (RECTANGULAR TO ROUND)
	FLEXIBLE DUCT (14'-0" MAXIMUM)
	PROGRAMMABLE THERMOSTAT, PROVIDED WITH LENNOX PACKAGE
	THERMOSTAT SENSOR (REMOTE), PROVIDED WITH LENNOX PACKAGE
	HUMIDITY SENSOR (REMOTE), PROVIDED WITH LENNOX PACKAGE
	CONDENSATE DRAIN
	DIAMETER
	DOOR LOUVER
	DOOR UNDERCUT (3/4" MINIMUM)
	MECHANICAL EQUIPMENT DESIGNATION
	RESET SMOKE DETECTOR RESET

SYMBOL & ABBREV.	DESCRIPTION
A/C, AC	AIR CONDITIONING
BDD	BACK DRAFT DAMPER
CB	CIRCUIT BREAKER
CLG.	CEILING
CONN.	CONNECT/CONNECTION
CONT.	CONTINUATION
CONTR	CONTRACTOR
CFM	CUBIC FEET PER MINUTE
DET.	DETAIL
DISC.	DISCONNECT
DTR	DOWN THRU ROOF
EF	EXHAUST FAN
(E)	EXISTING
GA.	GAGE/GAUGE
GC	GENERAL CONTRACTOR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
MFR.	MANUFACTURER
MECH.	MECHANICAL
(N)	NEW
OA/OSA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
S/S	STAINLESS STEEL
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTR	UP THRU ROOF

MECHANICAL SYMBOLS

7

SUPPLY AND EXHAUST FAN SCHEDULE

2

MARK	QUANTITY	NECK SIZE	FACE SIZE OR GRID SIZE	(NO.) & AIR PATTERN	TYPE	MAX FLOW (CFM)	MOUNTING	MATERIAL	MANUFACTURER	MODEL NUMBER	REMARKS
E-1	2	8"Ø	12x12	-	EXHAUST	200	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5 / 50F	FRN SQR TO RND ADAPTER
E-2	1	8"Ø	12x12	-	EXHAUST	200	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5 / 50F	FRN SQR TO RND ADAPTER
R-1	4	22x22	24x24	-	RETURN	2000	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	CC5-FB-TB / 50FF	FULLY REMOVABLE FACE
S-1	7	SEE PLANS	24x24	(2)4W/(2)3W	SUPPLY	500	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	5000-6 / TDC-AA	FRN SQR TO RND ADAPTER
S-2	3	6"Ø	14x14	HORIZ	SUPPLY	250	SURFACE	ALUMINUM	METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQR TO RND ADAPTER
S-3	3	18x6	14x8	VERT	SUPPLY	400	SURFACE	ALUMINUM	TITUS	301RL	SUPPLY GRILLE WITH SINGLE DEFLECTION
S-4	5	SEE PLANS	24x24	HORIZ	SUPPLY	700	LAY-IN	ALUMINUM	HART & COOLEY	RZMCDST	PLASTIC MODULAR CORE

NOTES:

- DIFFUSERS IN SURFACE MOUNTED CEILINGS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

AIR DEVICE SCHEDULE

3

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	1050	-1050
EF-2	--	--	--	300	-300
RTU-1	600	1800	2400	--	+600
RTU-2	950	3450	4400	--	+950
TOTAL	1550	5250	6800	1350	+200

NOTE:

THE OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 25.0% FOR RTU-1 AND 21% FOR RTU-2.

AIR BALANCE SCHEDULE CFM

4



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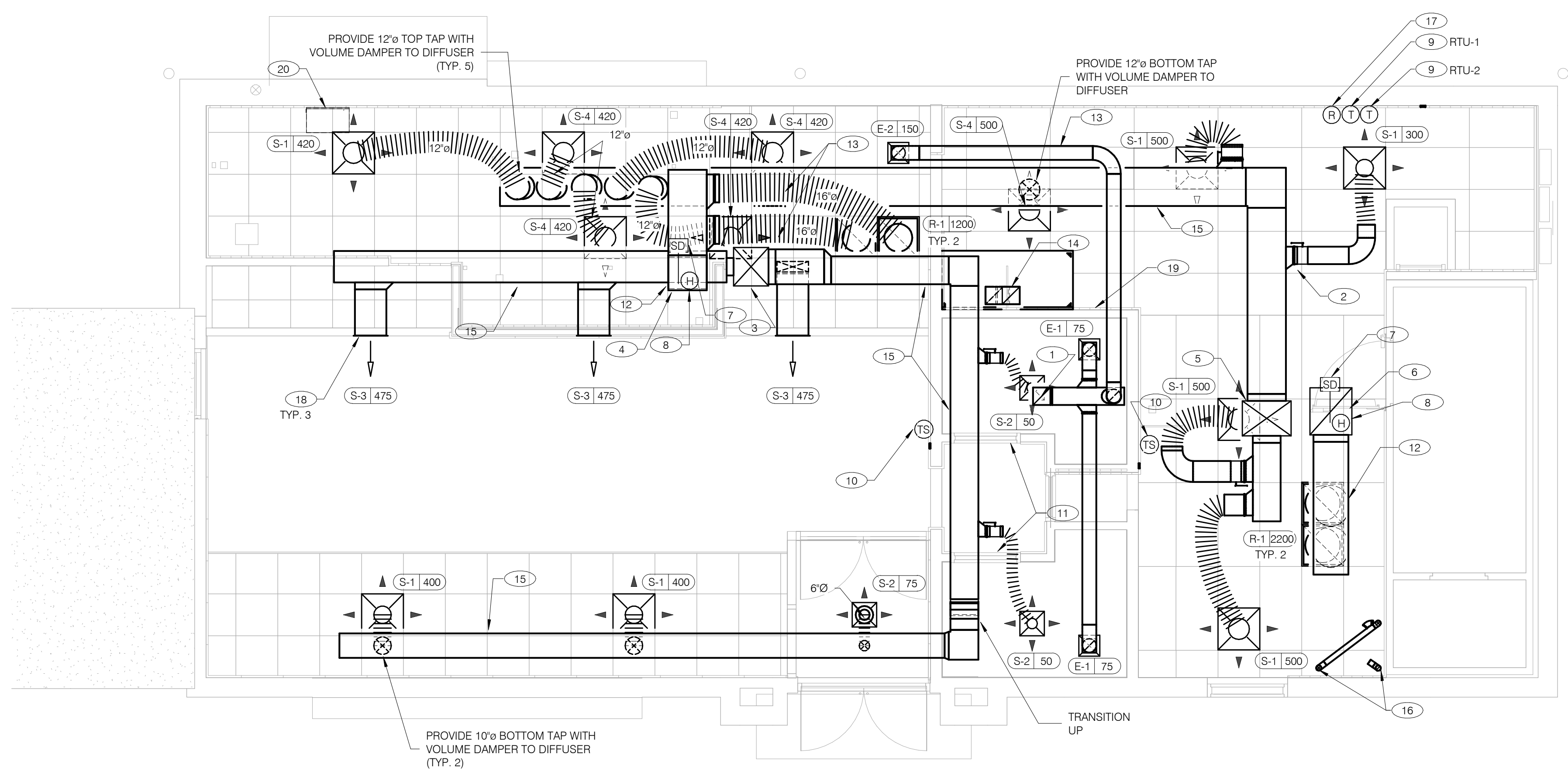
Taco Bell
 NORTHLINEROAD
 SOUTHGATE, MI 48195



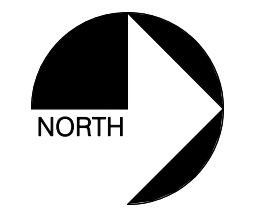
MECHANICAL SCHEDULES AND NOTES

M1.0

PLOT DATE: 8/7/2018 9:13:21 AM



COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF THE HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.



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DUCT AND DIFFUSER PLAN 1/4" = 1'-0" **A**

- DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS.
- THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE. REMOTE TEMPERATURE SENSOR, AND REMOTE HUMIDITY SENSOR.
- HUMIDITY SENSOR APPLICATION IS VARIABLE PER SITE SPECIFIC CONDITIONS. REFER TO HVAC UNIT SCHEDULE, 1/M1.0, FOR APPLICATION CONDITIONS. COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND STRUCTURAL.
- NO FLEX DUCT ALLOWED ON EXHAUST SYSTEMS. HVAC TEST AND BALANCE. CONTRACTOR TO CONTACT ONE OF THE FOLLOWING COMPANIES TO PERFORM THE HVAC AIR BALANCE.
 - TEST AND BALANCE CORP.
MISTY CRIDER
(678) 393-9401 EXT. 2237
isext@torkeetom@tabonline.com
 - MELINK CORP.
JENNIFER JACKSON
(513) 393-9401 EXT. 2237
kjohanson@melinkcorp.com
 - AIR CARE EXPERTS
CHUCK McCABE
cmcabe@ace-iaq.com

- 10x10 EXHAUST AIR DUCT UP TO EF-2.
- SEE DETAIL 4 ON DRAWING M4.0 FOR SUPPLY AIR TAKE-OFF TO CEILING DIFFUSERS AND GRILLES.
- EXTEND FULL SIZE SUPPLY DUCT DROP WITH FLEX CONNECTION TO RTU-1. PROVIDE 90° ELBOWS WITH TURNING VANES.
- DUCT TRANSITION FROM MAIN RETURN PLENUM TO 22"x18" RETURN AIR DUCT. CONNECT TO RETURN AIR PLENUM AT ROOFTOP UNIT RTU-1 WITH FLEX CONNECTION.
- EXTEND FULL SIZE SUPPLY PLENUM WITH FLEX CONNECTION TO RTU-2. PROVIDE 90° ELBOWS WITH TURNING VANES AND SPLITTER DAMPERS.
- EXTEND FULL SIZE RETURN DUCT DROP WITH FLEX CONNECTION TO RTU-2.
- FURNISH AND INSTALL SMOKE DETECTOR IN THE RETURN AIR DUCT, IN ACCORDANCE WITH LOCAL CODES. DUCT SMOKE DETECTOR WIRED BY ELECTRICAL CONTRACTOR, SEE SHEET E3.2.
- HUMIDITY SENSOR (REMOTE). HUMIDITY SENSOR LOCATION SHALL BE PLACED IN RETURN AIR DUCTWORK. VERIFY EXACT LOCATION.
- LOCATE THERMOSTAT CONTROLS ON WALL IN OFFICE AT 48" A.F.F. COORDINATE LOCATION WITH LIGHT SWITCHES AND OTHER WALL MOUNTED ACCESSORIES.
- MOUNT THERMOSTAT REMOTE SENSOR AT 60" ABOVE FINISHED FLOOR.
- UNDERCUT RESTROOM DOORS MINIMUM 3/4" FOR MAKE-UP AIR.
- RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE. COORDINATE ACTUAL DUCT ROUTING WITH FINAL TRUSS SPACING AND LOCATIONS.
- RUN DUCT THROUGH OPEN WEBBING OF ROOF TRUSSES (WHERE POSSIBLE). COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.
- 10"x10" EXHAUST AIR DUCT DOWN FROM EF-1 AND TRANSITION TO FIELD CUT EXHAUST CONNECTION AT HOOD. EXHAUST DUCT SHALL BE ROUTED THROUGH TRUSS WEBS TO CONNECT TO HOOD COLLAR. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAIL 10 ON SHEET M4.0 FOR FIRE PROTECTION OF DUCT WORK. SEE DETAIL 6 ON SHEET M4.0 FOR EXHAUST DUCT TRANSITION.
- RUN MAIN SUPPLY DUCT UNDER BOTTOM OF TRUSS. COORDINATE ACTUAL DUCT ROUTING WITH FINAL CEILING HEIGHT.
- FURNISH AND INSTALL 3" PVC WATER HEATER INTAKE AND FLUE VENT TERMINATION ON ROOF. COORDINATE WORK WITH ALL TRADES.
- NEW SMOKE DETECTOR RESET SWITCH WITH KEY. MFR. IS "SYSTEM SENSOR" MODEL # RT5151 KEY. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MFR. SPECIFICATIONS.
- INSTALL SIDE-WALL MOUNTED GRILLE AT APPROXIMATELY 10'-8" A.F.F. CONNECT GRILLE TO SUPPLY DUCT AND PROVIDE WITH VOLUME DAMPER AT CONNECTION PAINT TO MATCH ADJACENT CONDITIONS.
- CONTRACTOR TO INSTALL FIRE SUPPRESSION CABINET ON EXHAUST HOOD. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING, FITTINGS, AND ACCESSORIES TO MAKE FINAL CONNECTION AT HOOD. FIELD VERIFY EXACT LOCATION OF FIRE SUPPRESSION CABINET.
- CONTRACTOR TO PROVIDE AND INSTALL AIR CURTAIN IN LOCATION AS SHOWN ON PLAN. MOUNT AIR CURTAIN ON MULLION DIRECTLY ABOVE SERVICE OPENING DOORS AT DRIVE-THRU WINDOW. PROVIDE BERNER MODEL DTU03-2026A AT 120/1/60. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MORE DETAILS.

GENERAL NOTES - MECHANICAL NTS **C**

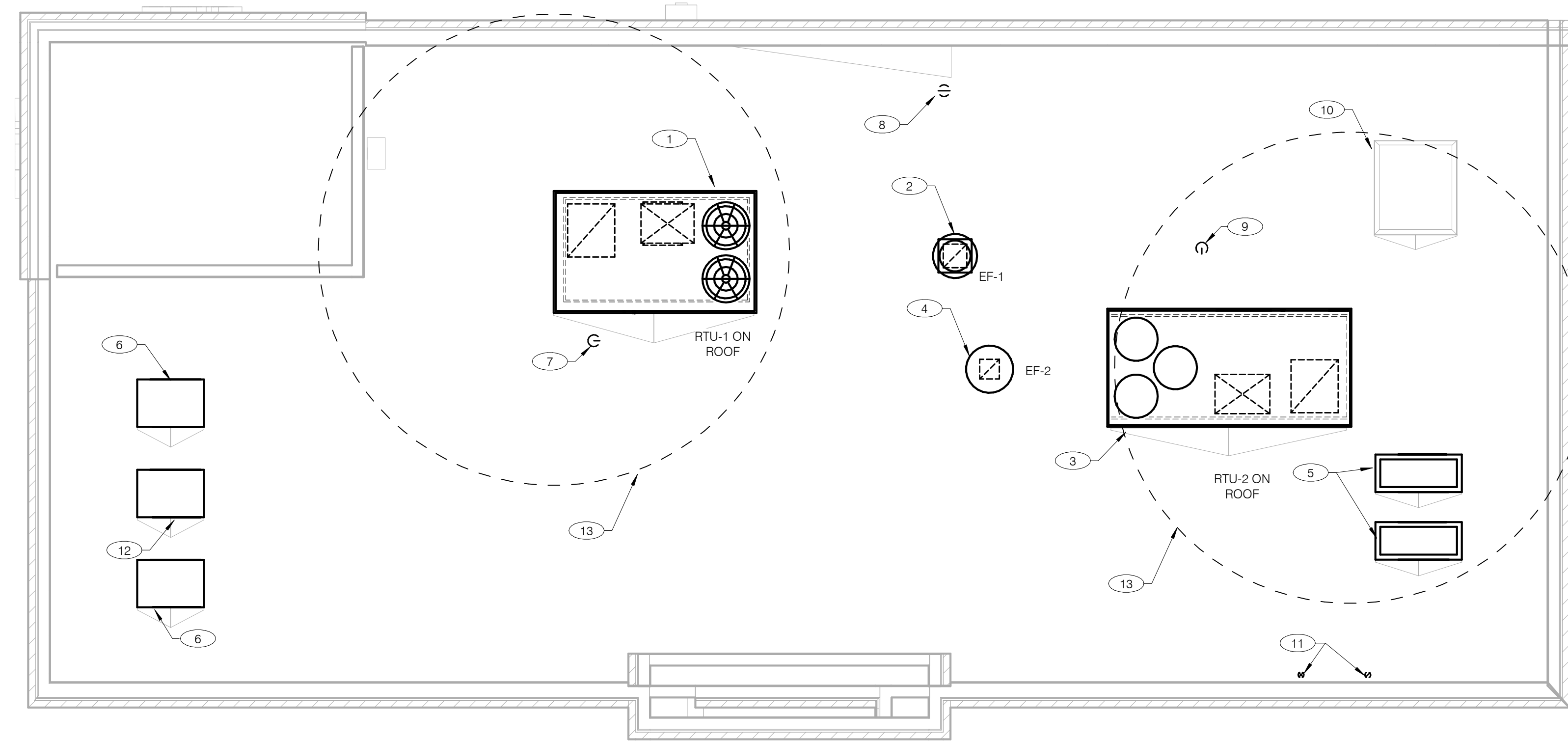
KEYNOTES - DUCT AND DIFFUSER NTS **B**

Taco Bell
NORTHLINER ROAD
SOUTHGATE, MI 48195

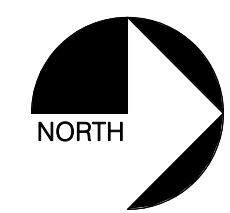
TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

DUCT AND DIFFUSER PLAN

M2.0



COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF THE HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.



08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

MECHANICAL ROOF PLAN 1/4" = 1'-0" **A**

- 1 CONTRACTOR TO PROVIDE AND INSTALL RTU-1 IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS LAYOUT.
- 2 CONTRACTOR TO PROVIDE AND INSTALL TYPE I EXHAUST FAN (EF-1) 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 CONTRACTOR TO PROVIDE AND INSTALL RTU-2 IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS LAYOUT.
- 4 CONTRACTOR TO PROVIDE AND INSTALL TYPE II EXHAUST FAN (EF-2) 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 1" GAS PIPING UP THROUGH ROOF FROM BELOW. CONTRACTOR TO ROUTE GAS PIPING ON ROOF AND PROVIDE PIPING SUPPORTS. CONNECT TO RTU AND PROVIDE WITH SHUT-OFF VALVE AND DIRT LEG.
- 8 PLUMBING VENT, REFERENCE 1/P2.0. ENSURE AT LEAST A 10'-0" DISTANCE BETWEEN ANY OUTDOOR AIR INTAKES
- 9 1-1/4" GAS PIPING UP THROUGH ROOF FROM BELOW. CONNECT TO RTU AND PROVIDE WITH SHUT-OFF VALVE AND DIRT LEG.
- 10 ROOF HATCH. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
- 11 FURNISH AND INSTALL 3" PVC WATER HEATER INTAKE AND FLUE VENT TERMINATION ON ROOF. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. ENSURE AT LEAST A 10'-0" DISTANCE BETWEEN ANY OUTDOOR AIR INTAKES.
- 12 CONDENSING UNIT SERVING FROZEN BEVERAGE MACHINE. 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.
- 13 MAINTAIN A MINIMUM 10'-0" CLEARANCE TO ANY EXHAUST TERMINATIONS.

KEYNOTES - ROOF PLAN NTS **B**

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NORTHLINEROAD
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MECHANICAL ROOF PLAN

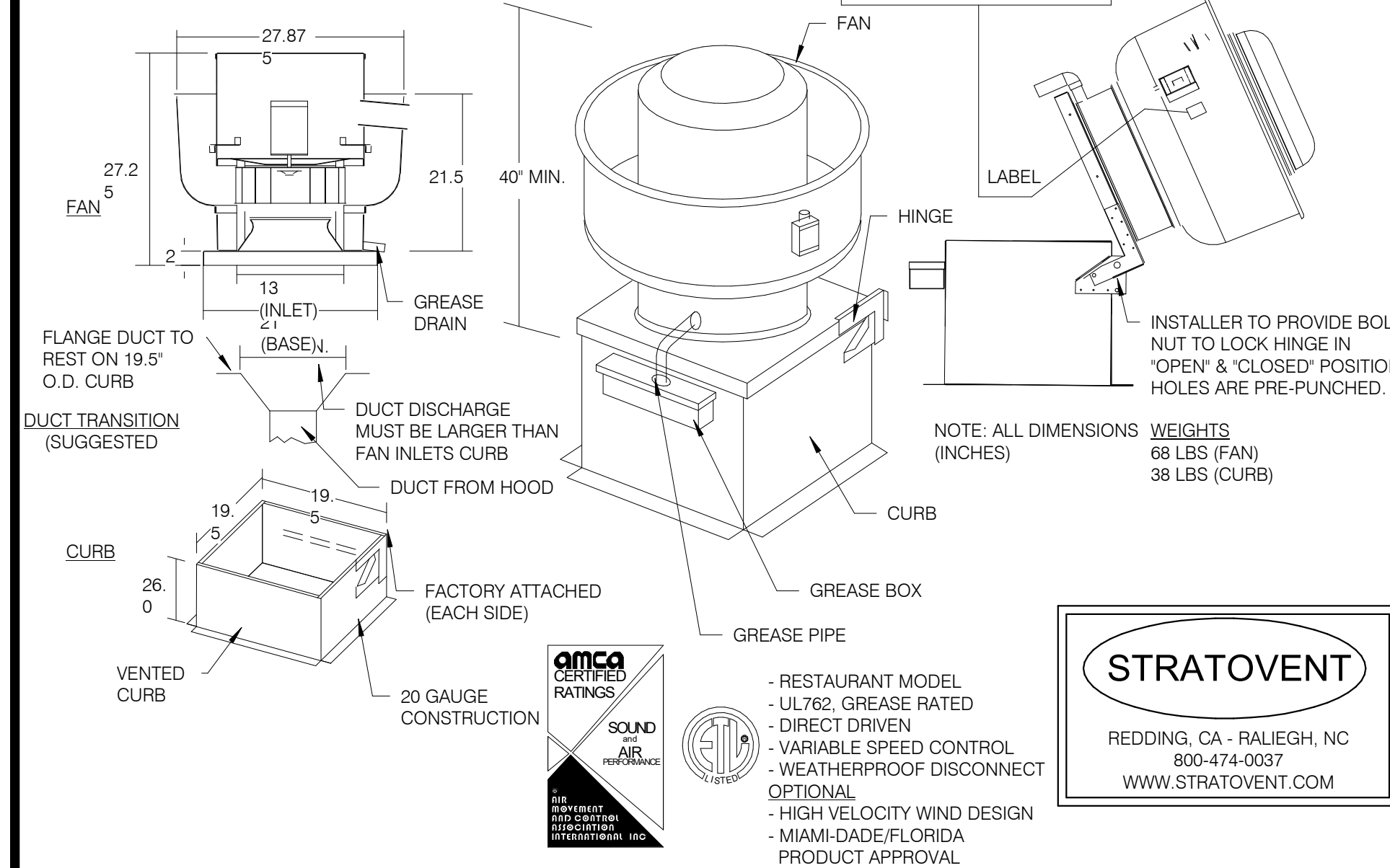
M2.1

PLOT DATE: 8/7/2018 9:13:23 AM

EF-1. PERFORMANCE DATA:
 MODEL: STRATVENT, SVDU50HFA
 AIRFLOW: 1050 CFM, 0.8" STATIC PRESSURE
 FAN RPM: 1292**
 POWER: 0.231 BHP
 MOTOR: 0.50 HP, 115V, 1PH, 8.1 FLA
 ** DIRECT DRIVEN WITH PREWIRED SPEED CONTROLLER

STRATOVENT UL-762 EXHAUST FAN
 6'-3" LONG TACO BELL HOOD

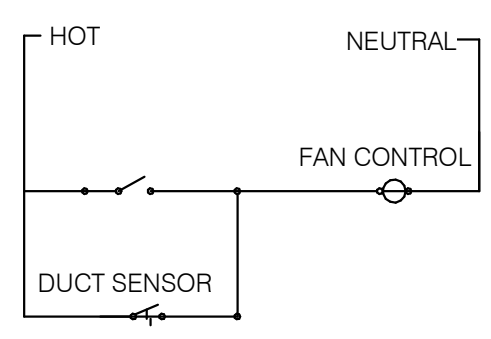
ATTENTION!
 INSTALLER MUST READ LABEL NEAR DISCONNECT SWITCH!
 MESSAGE ON LABEL:
 "INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO ALLOW FAN TO MAKE COMPLETE SWING"



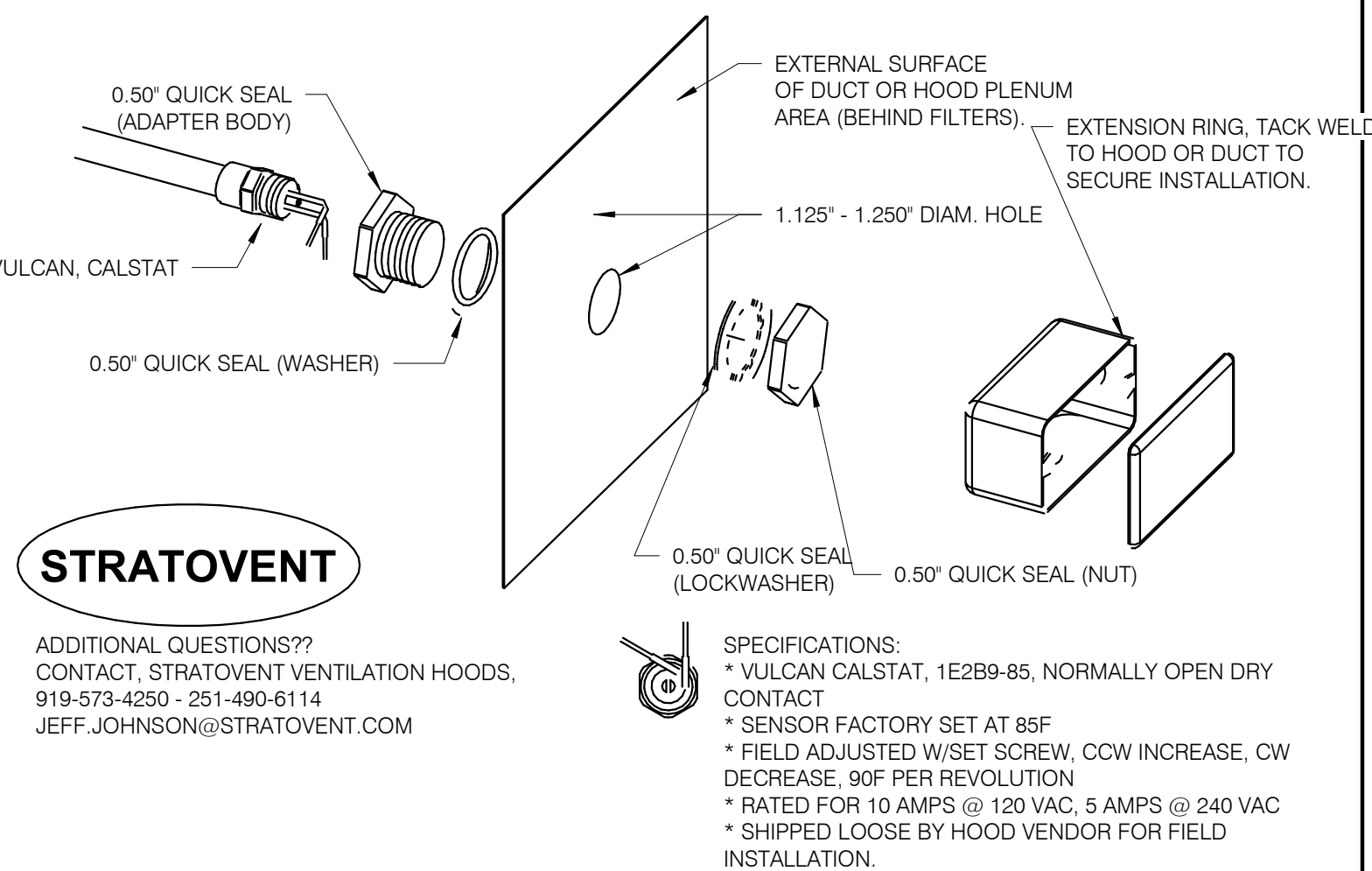
HOOD EXHAUST FAN DETAIL NTS 7

INSTALLATION: DUCT TEMPERATURE SWITCH SENSOR DETAIL

FAN CONTROL CIRCUIT (BY OTHERS, SEE E6.0)



- NORMALLY OPEN DRY CONTACT, CLOSES ON TEMPERATURE RISE ABOVE 85°F. WIRED IN PARALLEL TO NORMAL CONTROLS CIRCUIT.
 - FIELD WIRED AS SAFETY SWITCH (NO PRIMARY MEANS OF FAN POWER), TO ENERGIZE HOOD EXHAUST FANS
 WHEN COOKING EQUIPMENT GENERATES HEAT
 -FAN CONTACTOR BY OTHERS. SEE E6.0 SHEET FOR DETAILS.

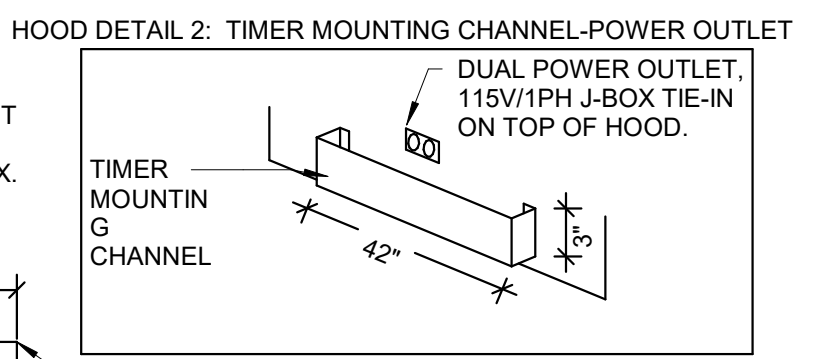
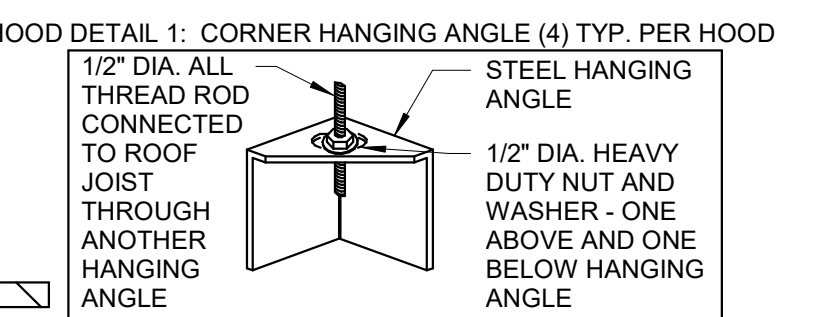
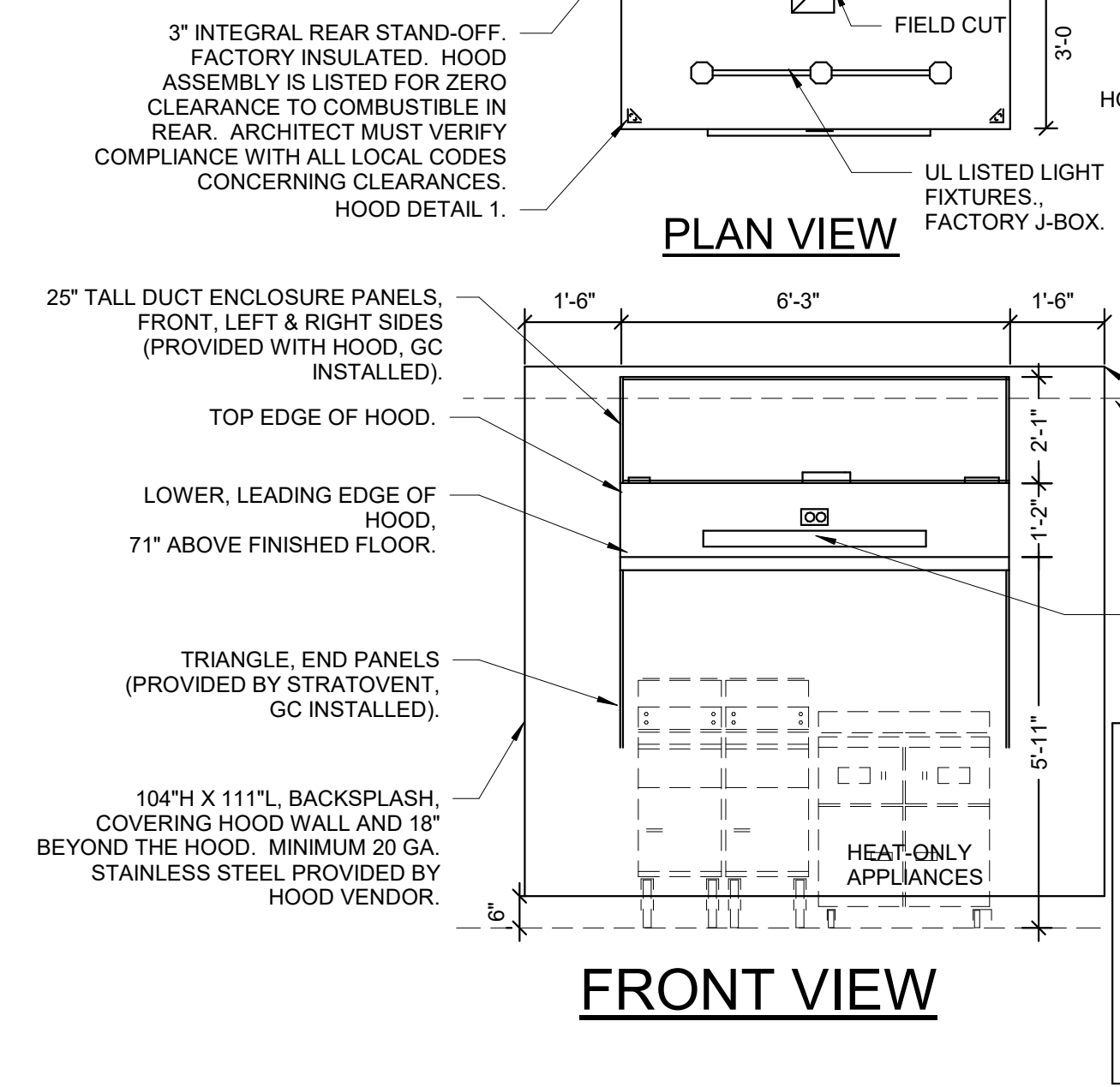


HEAT SENSOR ATTACHMENT NTS 5

HOOD#	1 OF 1	STRATOVENT SVBD2	
LENGTH (IN):	6'-3"	LENGTH (IN): 36" HEIGHT (IN): 14"	
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
EXHAUST SIZE:	10"x10"	SUPPLY 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 PREWIRED FOR ANSUL SYSTEM INSTALL BY OTHERS.
 - INSTALLER TO REVIEW E6.0 SHEET FOR HOOD AND FAN WIRING. NO CONTACTOR OR CONTROL BOX IS FURNISHED WITH HOOD, UNLESS SOURCED DIRECT FROM STRATOVENT BY INSTALLER.

LOW-PROFILE HOOD



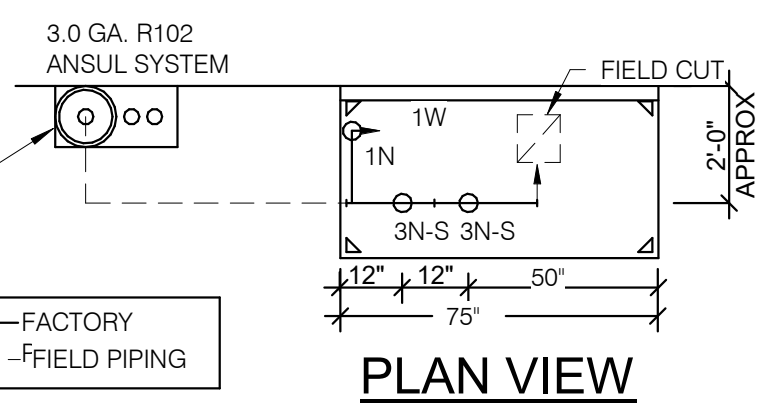
STRATOVENT
 REDDING, CA - RALEIGH, NC
 800-474-0037 OR 251-490-6114

ETL LISTED FILE #3054804-001 / TESTED TO UL-710

TACO BELL HOOD DETAIL NTS 2

PROJECT: TACO BELL

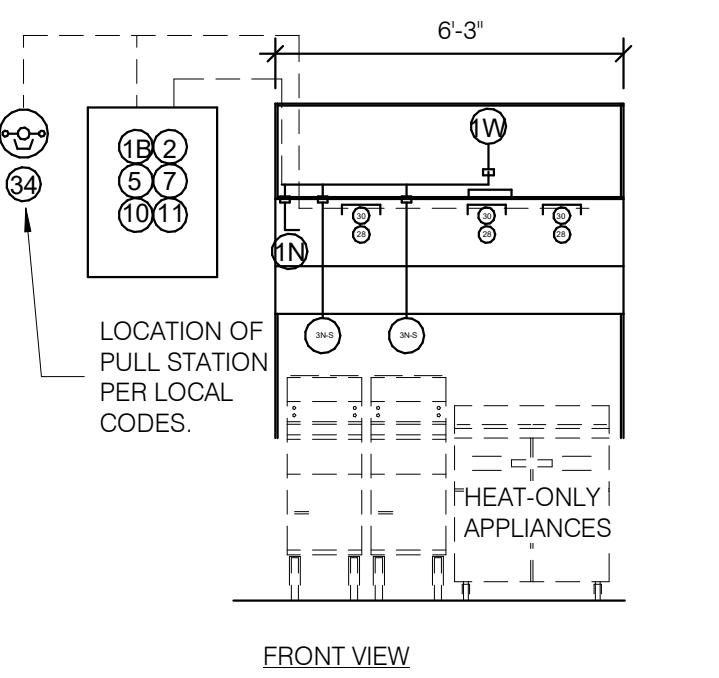
System Size: ANSUL-3.0 Gallons Total, R102
 Flow Points: 8 Design, 11 (max)
 8 FLOW POINTS
 Hood #1: 6'-6" L x 36" W x 14" H
 Exhaust Riser Size: 10" x 10"



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

- 1B 3.0 GALLON TANK
- 2 AUTOMAN RELEASE
- 5 ANSULEX LIQUID AGENT (3.0GAL.)
- 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



STRATOVENT
 PREPARED BY: STRATOVENT
 RALEIGH, NC - REDDING, CA
 CONTACT: JEFF JOHNSON
 PH: 251-490-6114, 919-573-4251
 JEFF.JOHNSON@STRATOVENT.COM

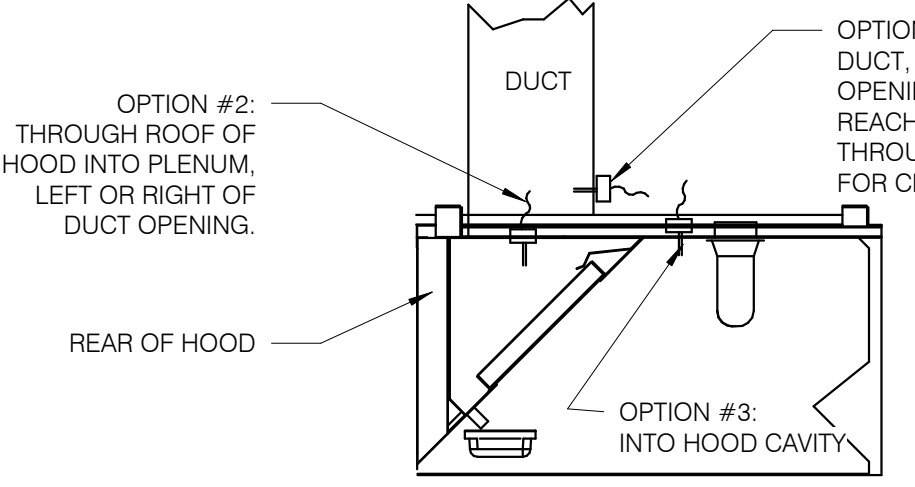
TACO BELL HOOD FIRE SUPPRESSION SYSTEM PLAN NTS 6

1. Hoods shall be constructed of minimum 20 gauge stainless steel with #3 grade 46 connector surfaces shall be constructed of minimum 18 gauge aluminum steel.
2. UL listed aluminum or stainless steel baffle type filter shall be used in hood for grease. Filter housing shall be made of a perfect gasketed, tough that drains into a removable stainless steel grease cup.
3. UL listed and NSF approved vapor proof retardant light fixtures permitted to be installed in hood in accordance with NEC 710.
4. Pre-wired fire suppression systems shall be located on the top of the hood and provided with the hood by a certified technician. Final location of all components and the suppression drops to be locally approved and required.
5. Hoods shall be fabricated in accordance with NFPA 96B. Hoods shall not have the NSF Seal of Approval. Hoods shall be listed under UL 710. ETL LISTED HOODS FOR COMMERCIAL COOKING EQUIPMENT. Contacted by ETL under File # 3054804-001.

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

INSTALLATION: DUCT TEMPERATURE SWITCH HOOD DETAIL



SIDE VIEW

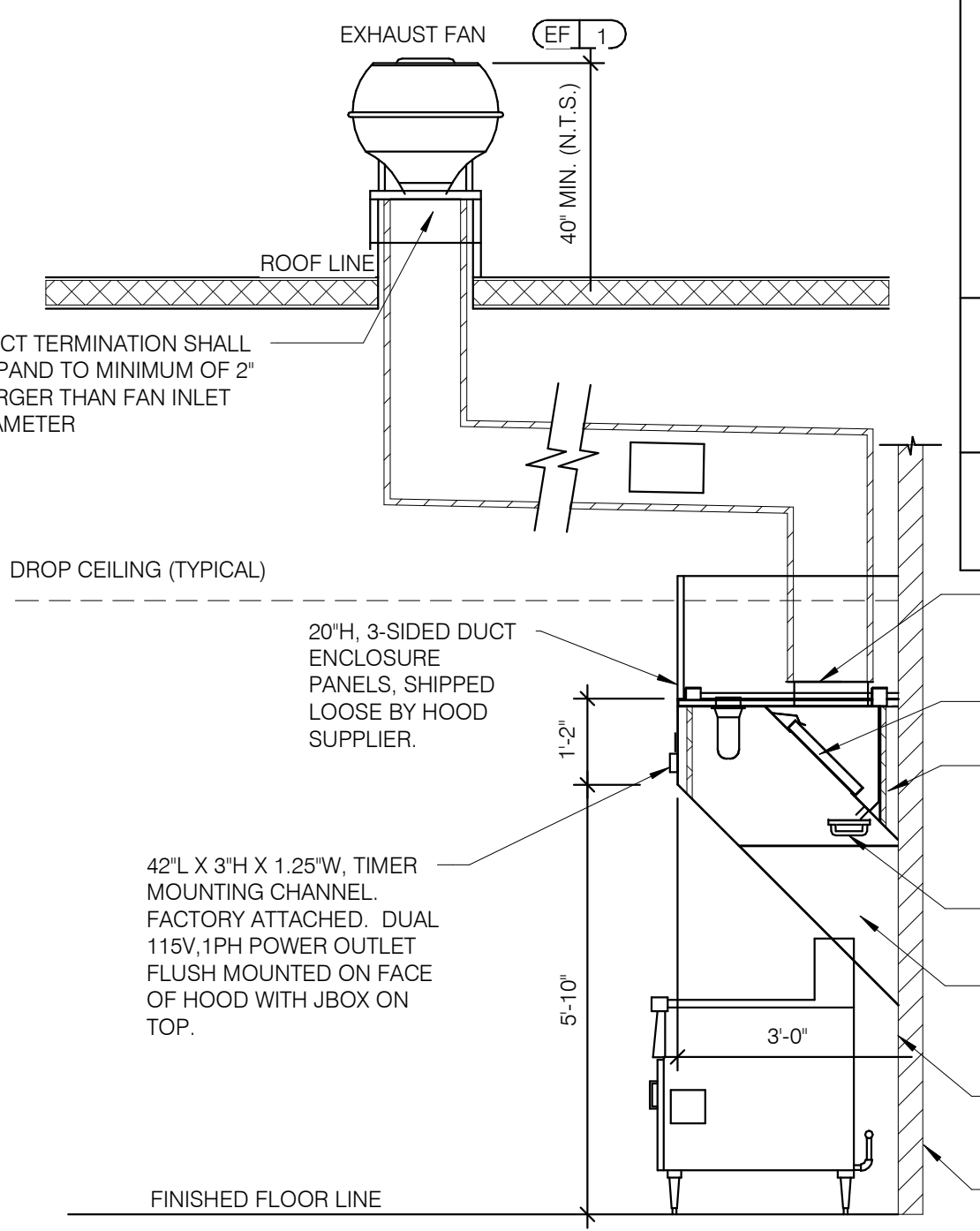
NOTE:
 SENSOR MUST BE INSTALLED WITH INCLUDED UL-LISTED QUICK SEAL KIT PER FACTOR GUIDELINES (SEE EXPLODED PARTS VIEW).

MODIFIED: 05-05-2014

ADDITIONAL QUESTIONS?
 CONTACT: STRATOVENT VENTILATION HOODS,
 919-573-4250 - 251-490-6114
 JEFF.JOHNSON@STRATOVENT.COM

HEAT SENSOR LOCATION NTS 3

LOW-PROFILE HOOD HOOD#1



SIDE VIEW

NON-CANOPY HOOD DESIGN BASED ON:
 MANUFACTURER: STRATOVENT, SVBD2
 ETL LISTED (UL-710): 3054804-001
 MIN. AIRFLOW: 150 CFM/FT
 DESIGN AIRFLOW: 168 CFM PER LINEAR FT
 MAX. DIST. ABOVE COOK SURFACE: 47"
 MAX. FRONT COOK SURFACE 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

STRATOVENT
 (UL-710 Standard) (NSF/ANSI Standard 2) NFPA

08.06.18	ISSUED FOR CONSTRUCTION
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02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312529/445209
 STORE NUMBER: 2017088.20

Taco Bell
 NORTHLINER ROAD
 SOUTHGATE, MI 48195

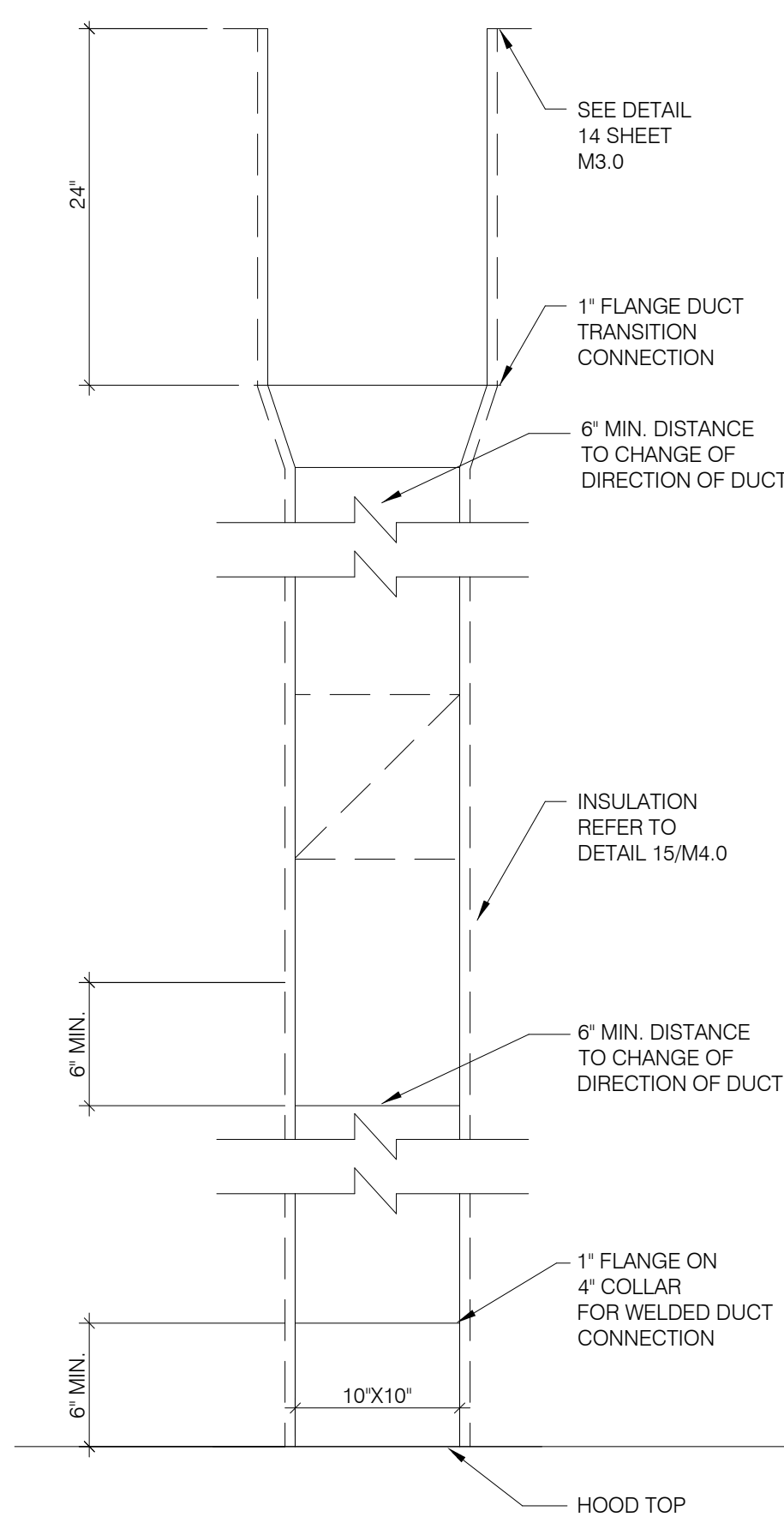
TACO BELL
 T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

**HOOD DRAWINGS
 PLANS AND
 SECTIONS**

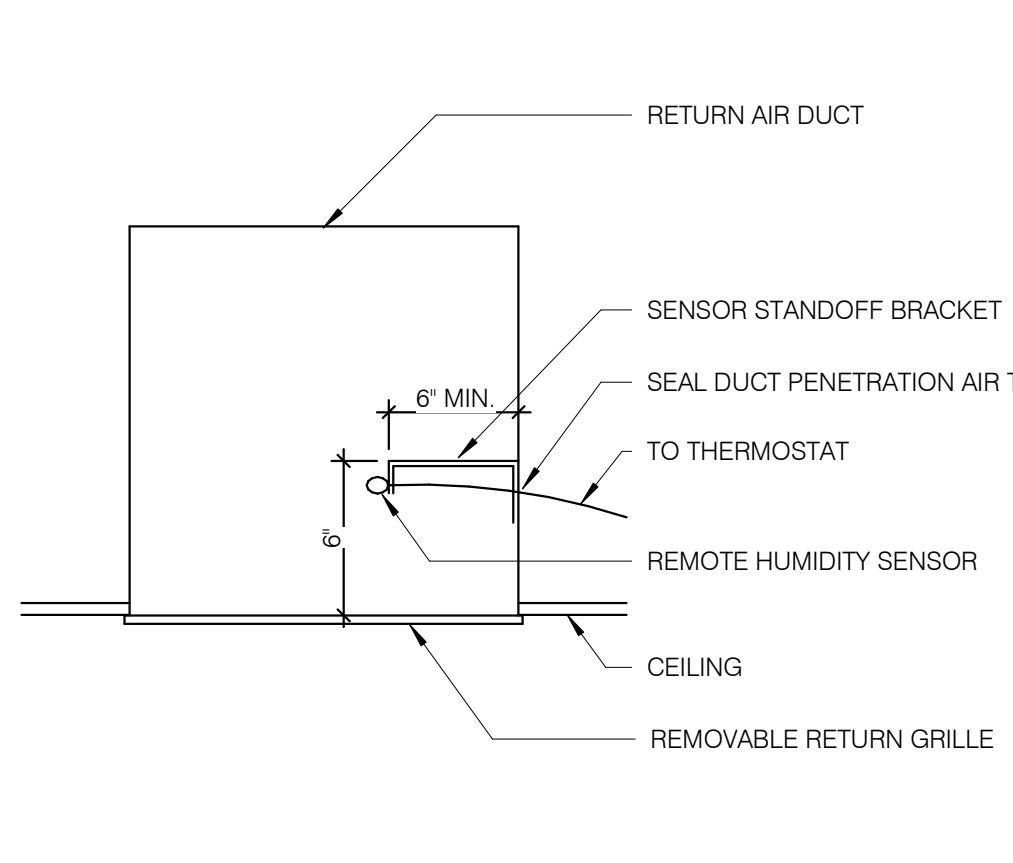
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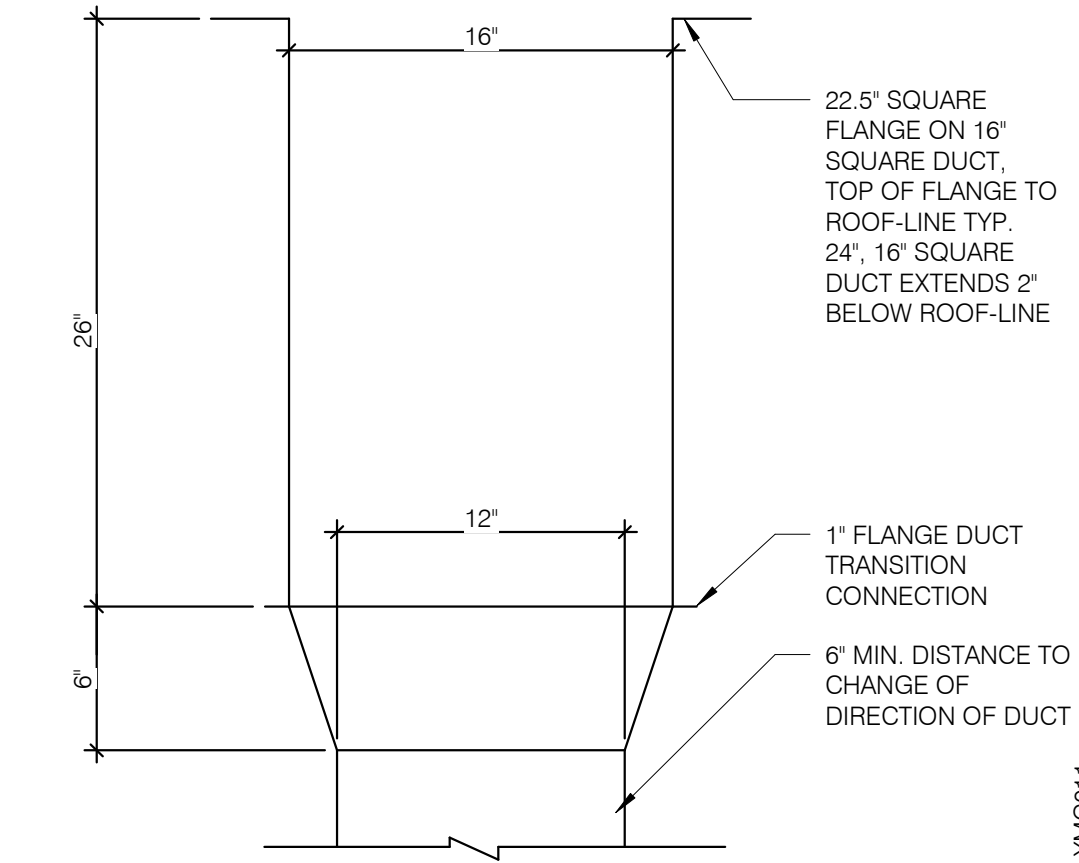
TACO BELL HOOD SECTION NTS 1



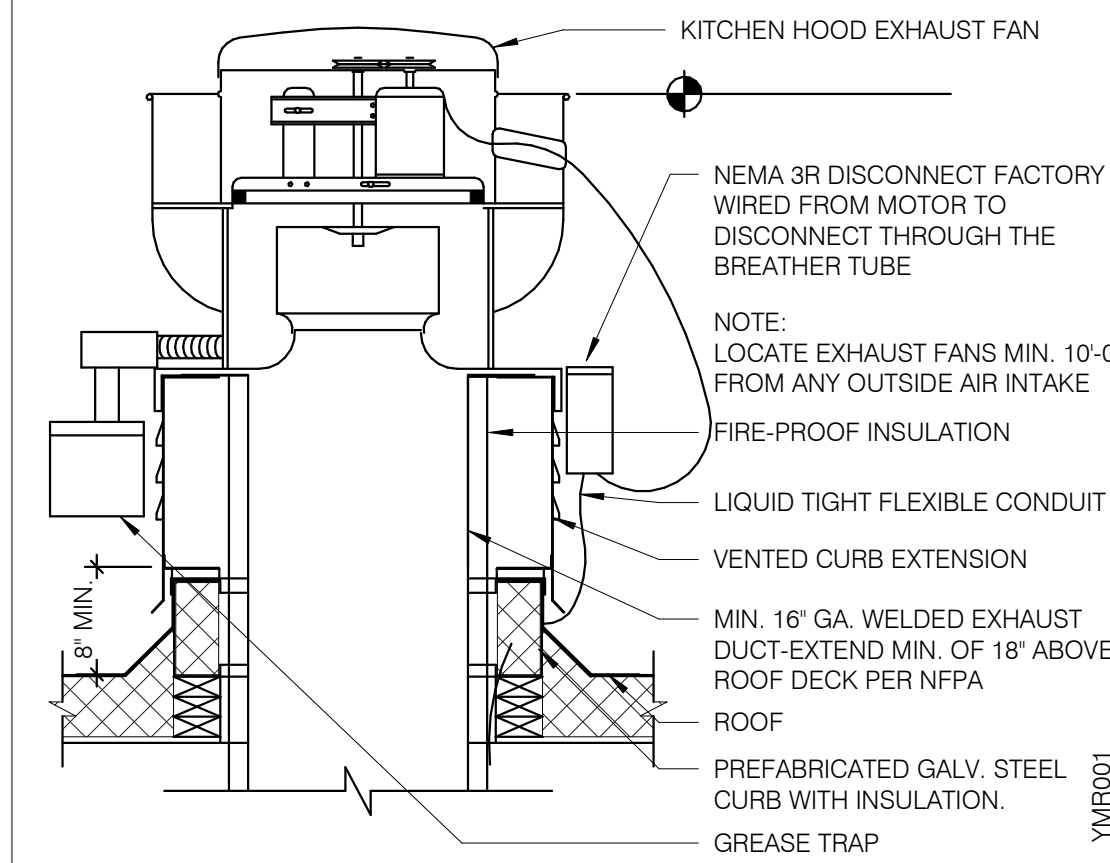
TB HOOD DUCT TRANSITION NTS **11**



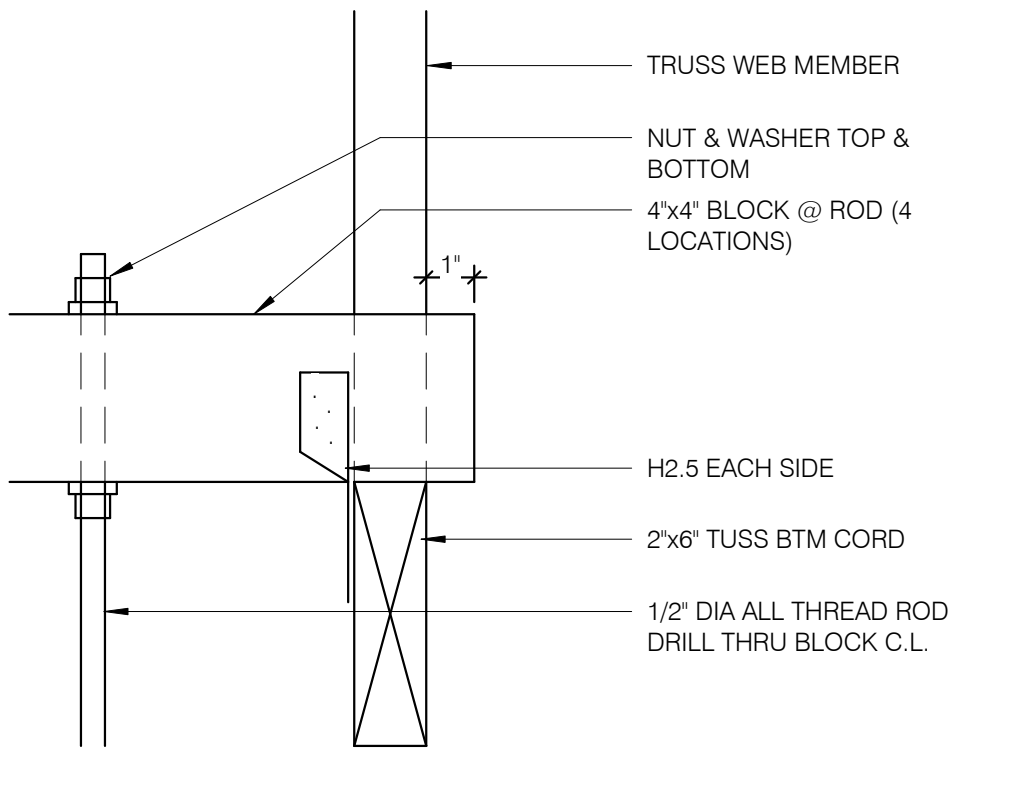
REMOTE HUMIDITY SENSOR NTS **8**



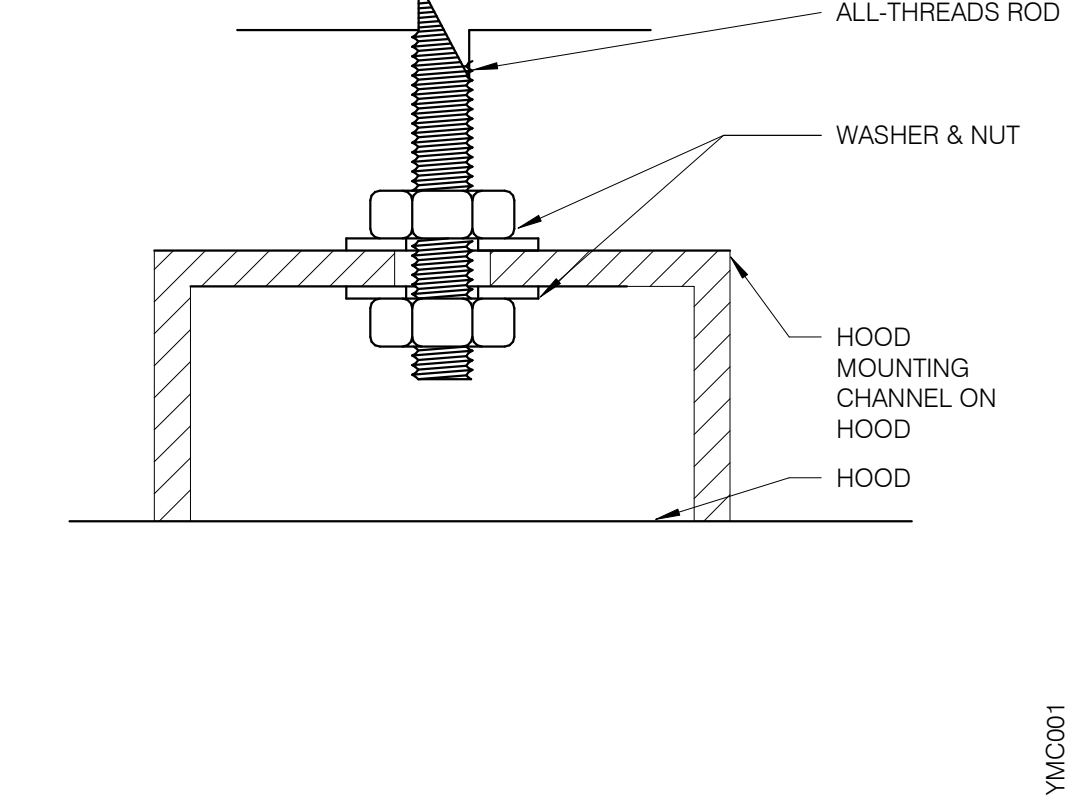
OVEN HOOD EXH. DUCT TRANSITION NTS **6**



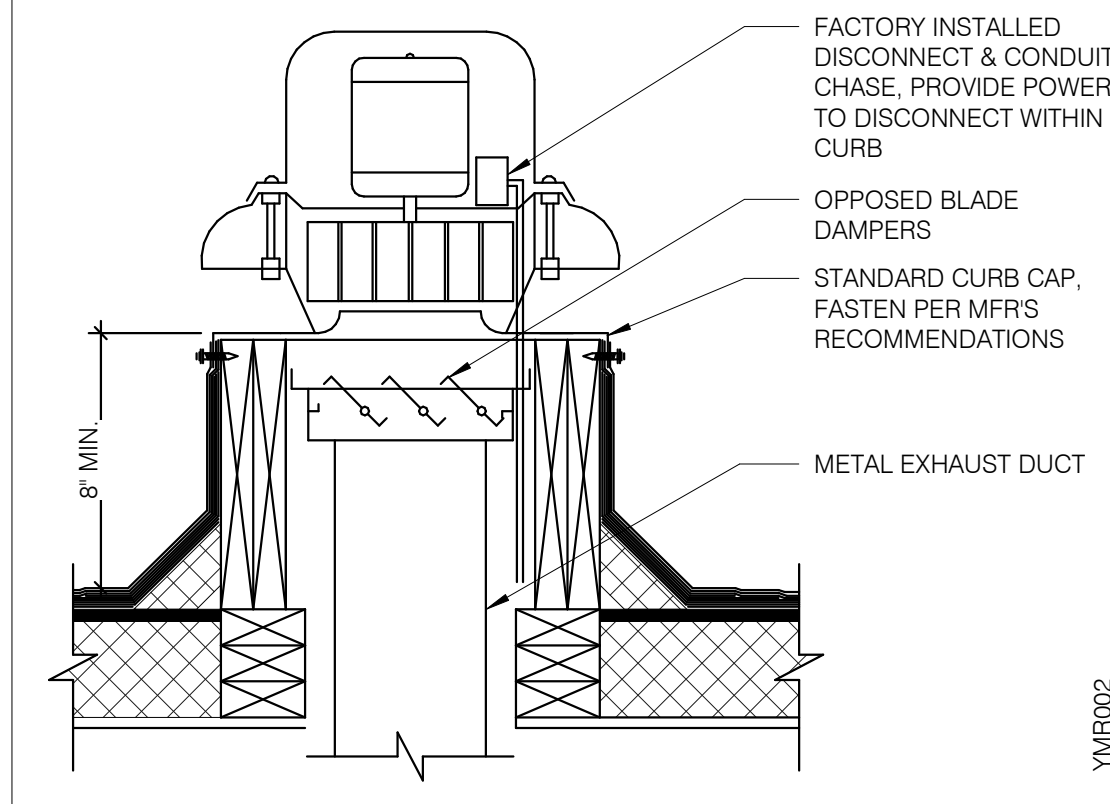
EXHAUST FAN (EF-1) NTS **3**



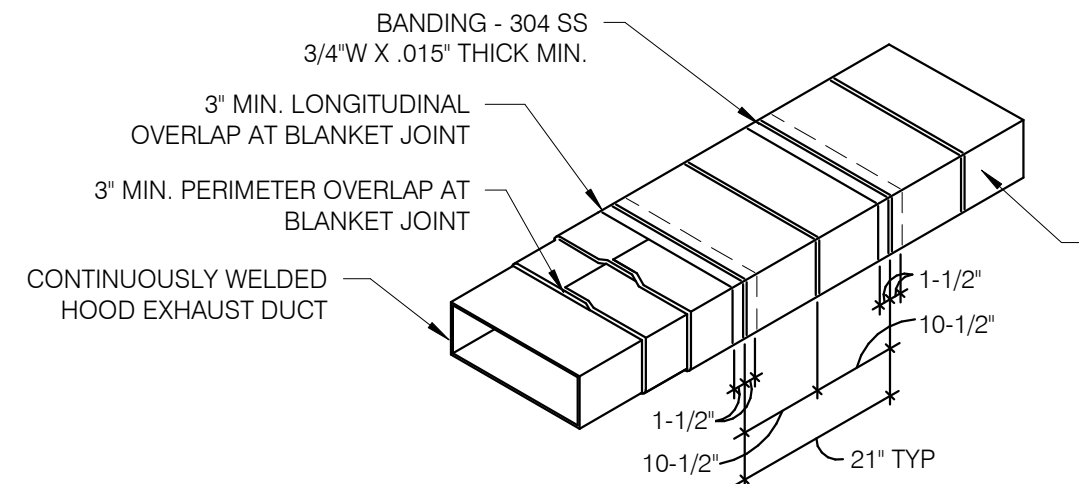
ROD ATTACHMENT NTS **7**



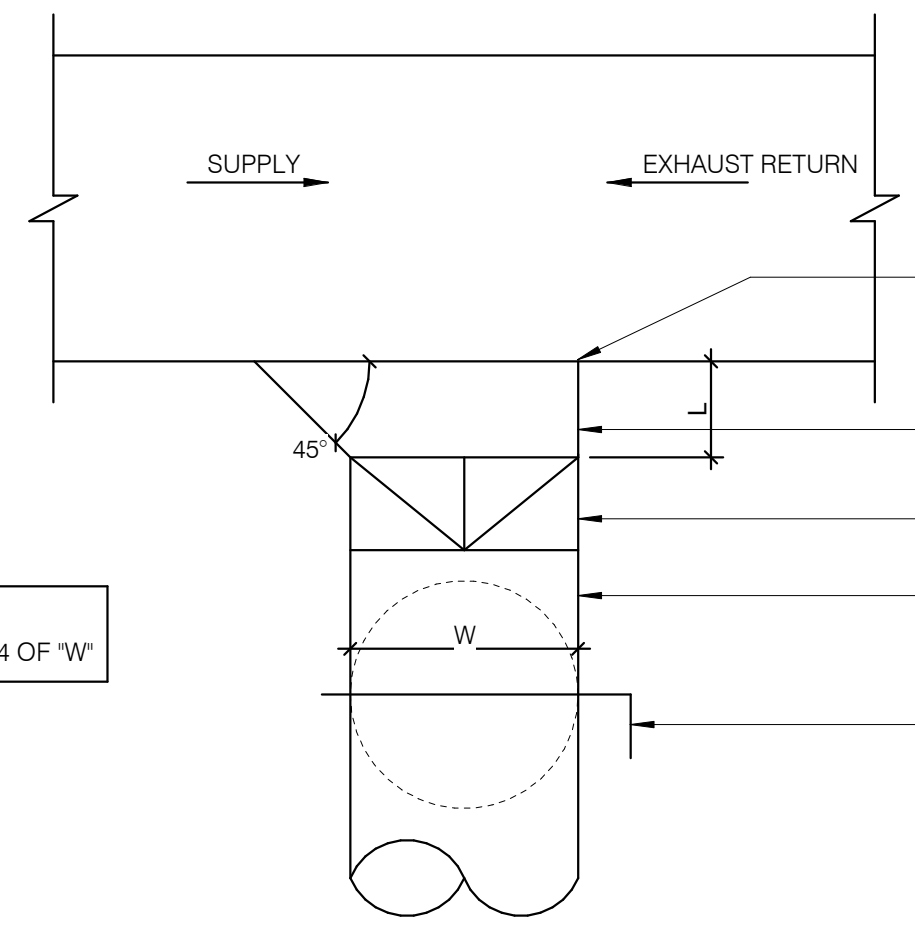
BOLT CONNECTION TO HOOD NTS **5**



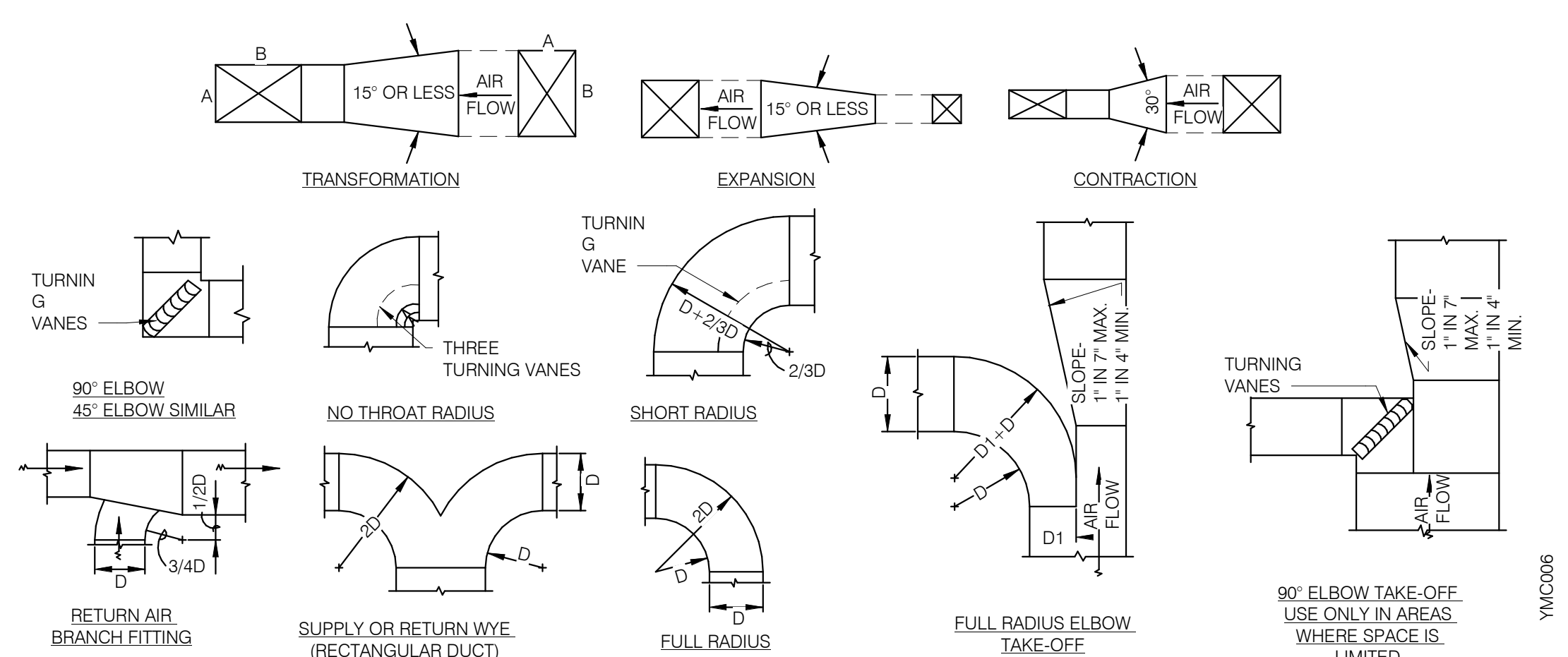
RESTROOM FAN (EF-2) NTS **2**



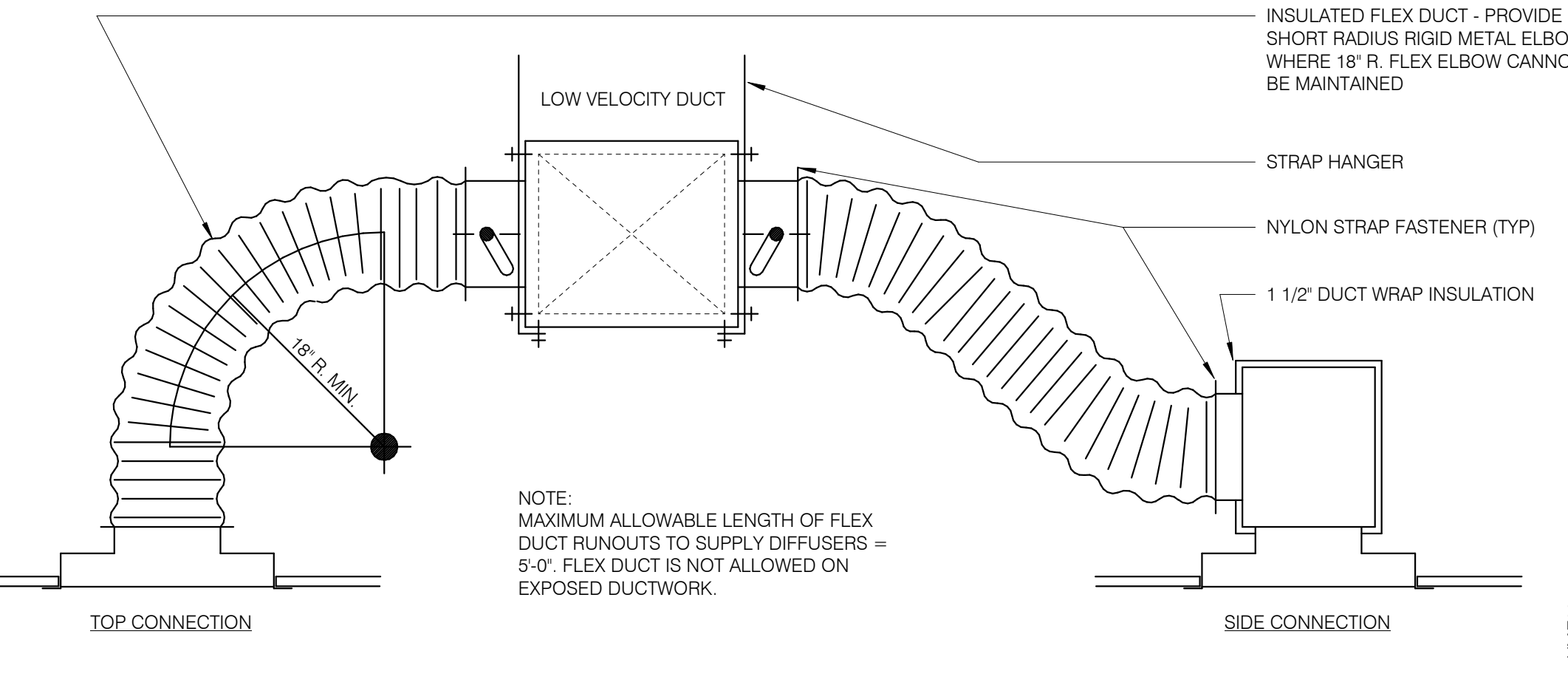
- KITCHEN HOOD EXHAUST DUCT SYSTEM DETAIL** NTS **10**
- NOTES:
1. WRAP GREASE DUCT CONTINUOUS AS SHOWN FROM CONNECTION AT FAN THROUGH CURB AND EXTEND 18" MIN. BELOW ROOF DECK.
 2. FOR HORIZONTAL RUNS OF EXHAUST DUCTS PROVIDE TYPICAL TRAPEZE SUPPORT SYSTEM WITH 1/2" HANGER RODS A MAXIMUM OF 6' FROM INSULATION 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"



CEILING DIFFUSER CONNECTIONS NTS **4**



TYPICAL DUCTWORK DETAILS NTS **9**



DUCT SUPPORT DETAIL NTS **1**

GPD GROUP
Professional Corporation
520 South Main Street, Suite 2531
Alton, OH 44311
330.572.2100 Fax: 330.572.2102

08.06.18	ISSUED FOR CONSTRUCTION
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Taco Bell
NORTHLINE ROAD
SOUTHGATE, MI 48195

TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

MECHANICAL AND HOOD DETAILS

M4.0

PLOT DATE: 8/7/2018 9:13:27 AM

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 THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
3. VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
4. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
5. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.
6. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
7. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.
8. PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
9. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.
10. PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT, FOR EACH APPLIANCE INSTALL QUICK DISCONNECT, FLEXIBLE PIPE WHEN ALLOWED BY CODE AND RESTRAINING DEVICE FURNISHED BY OWNER. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE. IF GAS PRESSURE GREATER THAN 10"wc IS USED DOWNSTREAM FROM THE GAS METER.
11. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
12. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR U.O.N.
13. REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.
14. ALL GAS LINES SHALL BE SUPPORTED SEE SPECS.
15. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO 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 GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.
18. PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.
19. COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
20. FURNISH & INSTALL ALL 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, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
22. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
23. ALL WATER LINES SHALL BE RUN OVERHEAD U.O.N.
24. ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
25. PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.
26. PVC SCHEDULE 40 WASTE PIPE CAN BE SUBSTITUTED FOR BLACK IRON WASTE PIPE WHERE ALLOWED BY LOCAL MUNICIPALITIES.

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
	A.C.P.	ASBESTOS CEMENT PIPE
	(N)	NEW
	(E)	EXISTING
	F.D.	FLOOR DRAIN
	H.D.	HUB DRAIN
	OFD	OVERFLOW DRAIN
	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
		PLUMBING EQUIPMENT DESIGNATION
		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DESCRIPTION.
		SOIL OR WASTE (SANITARY)/WASTE STUB
		SOIL OR WASTE (GREASE WASTE)/WASTE STUB
	G	GAS / GAS STUB
	CW	COLD WATER/ CW STUB
	HW	HOT WATER / HW STUB
	H.W.R.	HOT WATER RETURN
	V	SANITARY VENT
	S.D.	STORM DRAIN
	C.D.	CONDENSATE DRAIN
	F.C.O.	FLOOR CLEANOUT OR CLEANOUT TO GRADE
	W.C.O.	WALL CLEANOUT
	FW	FILTERED WATER
	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

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMPD WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
ECCO 1	EXTERIOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 5600Z 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: JPFSA-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
ECCO 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
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, OLSENITE #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 'ECONOMISER' / MODEL: 31888
L 1	LAVATORY		1-1/4"	1-1/2"	1/2"	--	1	1.5	WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT, 4" CENTERS, WITH INTEGRAL BACKSPASH, 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. .5 GPM AERATOR	A.S. COMRADE / MODEL: 0124.131 CRANE 'HARWICH' / MODEL: 1412V
S 1	HAND SINK		1-1/2"	1-1/2"	1/2"	--	2	1.5	S-1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS. FAUCET W/FOOT VALVE. 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 G.C. FAUCET: T&S #B2465, WITH VACUUM BREAKER, FURNISHED BY OWNER, INSTALLED BY G.C.	-- -- -- --
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, 97.0% THERMAL EFF., 199,000 BTUH INPUT, 100 GAL. STORAGE TANK, 235 GPH @ 100 DEG. RISE REC. RATE, 3" PVC FLUE & INTAKE, ASME RTD TEMP. & PRESS. REL. 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 TO DETAIL 9/P6.0	-- -- --



GENERAL NOTES - PLUMBING NTS 6

PLUMBING LEGEND NTS 4

PLUMBING FIXTURE SCHEDULE NTS 2

1. IF GEN POWER SOAK SINK USED THEN ADD A MIXING VALVE TO SINK ABOVE SUSPENDED CEILING.

FIXTURE	NO.	DRAIN		COLD WATER		HOT WATER	
		D.F.U.	TOTAL D.F.U.	F.U.	TOTAL C.W.	F.U.	TOTAL H.W.
WATER CLOSET	2	4	8	2	4	--	--
URINAL	0	5	--	5	--	--	--
LAVATORY	2	1	2	1.5	3	1.5	3
HAND SINK	2	2	4	1.5	3	1.5	3
PREP SINK *	1	--	--	2	2	2	2
3 - COMPARTMENT SINK *	1	--	--	3	3	3	3
HOSE BIBB/WATER FILTRATION UNIT	2/1	--	--	2.5:1/1	3.5	--	--
FLOOR DRAIN	8	2	16	--	--	--	--
HUB DRAIN	2	2	4	--	--	--	--
FLOOR SINK	4	6	24	--	--	--	--
MOP SINK	1	3	3	2.25	2.25	2.25	2.25
RETHEMALIZER *	1	--	--	--	--	1.0	1.0
TOTAL	--	--	61	--	20.75	--	14.27

PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS: COLD WATER: 20.75 FU = 20 GPM DRAIN: GW 39 DFU DRAIN: SAN 22 DFU HOT WATER: 14.25 FU = 17 GPM USE 1-1/2" CW SERVICE USE 4" SANITARY (MIN) USE 4" SANITARY (MIN) USE 1-1/4" HW SERVICE

BASED ON 2015 MPC (COMBINATION DRAIN & VENT). *FIXTURE HAS INDIRECT WASTE TO FLOOR SINK

FLOOR DRAIN TOTAL CUBIC IN FOR 7 FLOOR DRAINS	147
DIMENSIONS OF ONE (1) COMPARTMENT OF THE 3-COMPARTMENT SINK	28" x 30" x 14"
DIMENSIONS OF ONE (1) COMPARTMENT OF THE 3-COMPARTMENT SINK	28" x 42" x 21"
DIMENSIONS OF ONE (1) COMPARTMENT OF THE 3-COMPARTMENT SINK	28" x 12" x 14"
DIMENSIONS OF 1-COMPARTMENT SINK	28" x 12" x 14"
TOTAL CAPACITY OF 3-COMPARTMENT AND 1-COMPARTMENT SINKS	46,011 CUBIC INCHES
CAPACITY IN GALLONS (DIVIDE BY 231)	200 GAL.
ACTUAL DRAINAGE LOAD (75% OF TOTAL CAPACITY)	150 GAL.
FLOW RATE FOR 2 MINUTE (2 LB. RETENTION = 1 GPM/FLOW)	75 GPM 150 LBS.
GREASE TRAP REQUIREMENTS NEED TO BE VERIFIED WITH LOCAL PERMIT AUTHORITY REQUIREMENTS.	

KEYNOTES NTS 5

PLUMBING FIXTURE COUNT NTS 3

GREASE TRAP SIZING NTS 1

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
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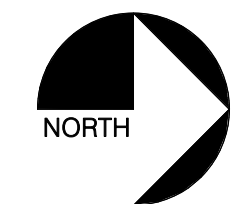
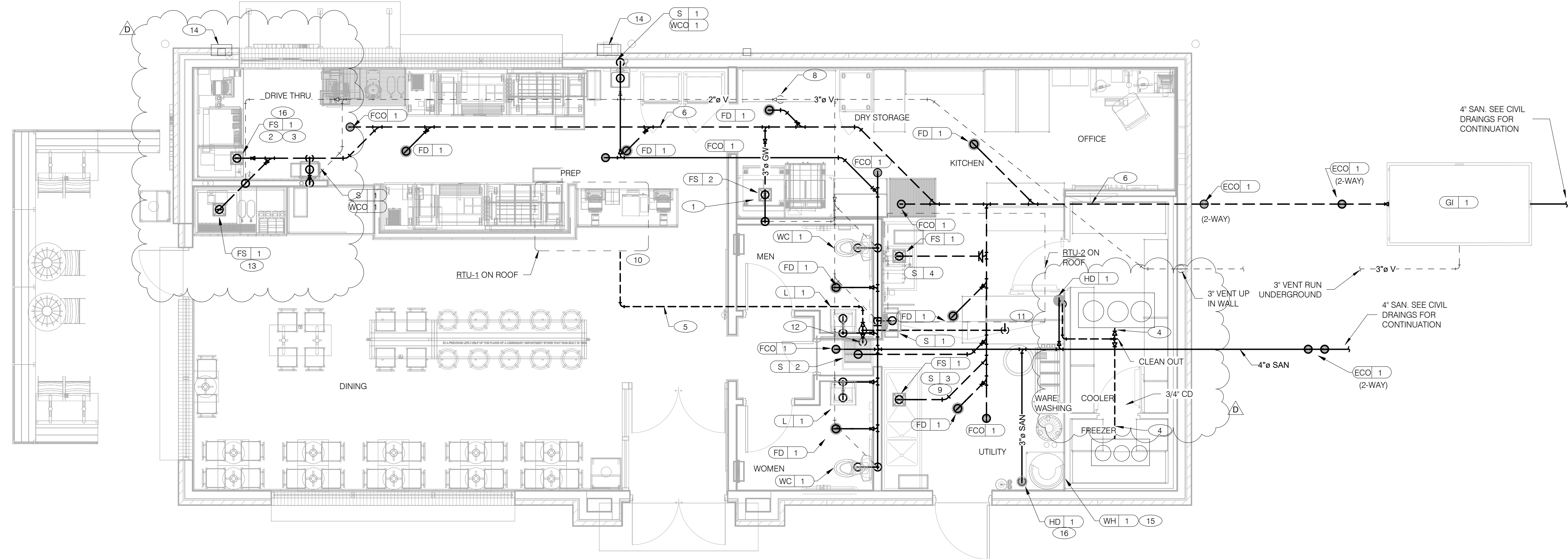
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PLUMBING SCHEDULES AND NOTES

P1.0

PLOT DATE: 8/7/2018 9:14:16 AM



WASTE & VENT PIPING PLAN 1/4" = 1'-0" **1**

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D 07.11.18	HEALTH COMMENTS
06.20.18	ISSUED FOR BID
A 05.24.18	HEALTH COMMENTS
02.16.18	ISSUED FOR PERMIT

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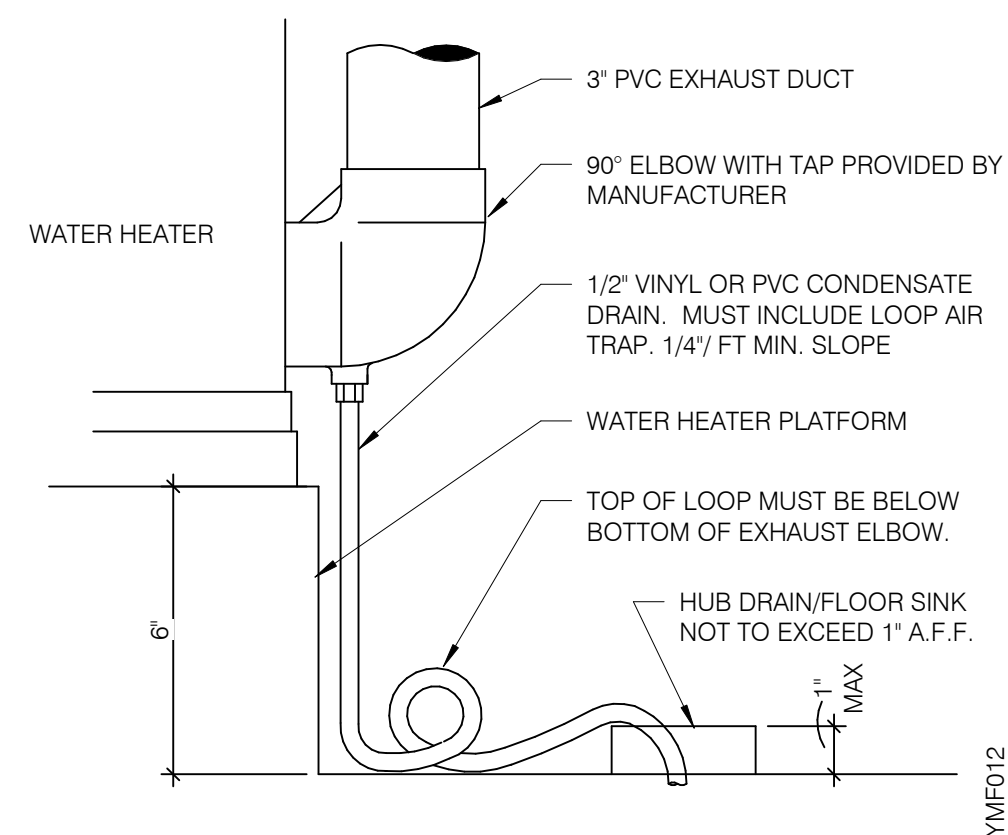
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WASTE AND VENT PLAN

P2.0

PLOT DATE: 8/7/2018 9:14:18 AM



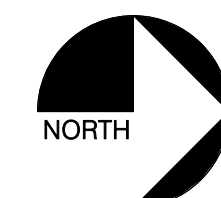
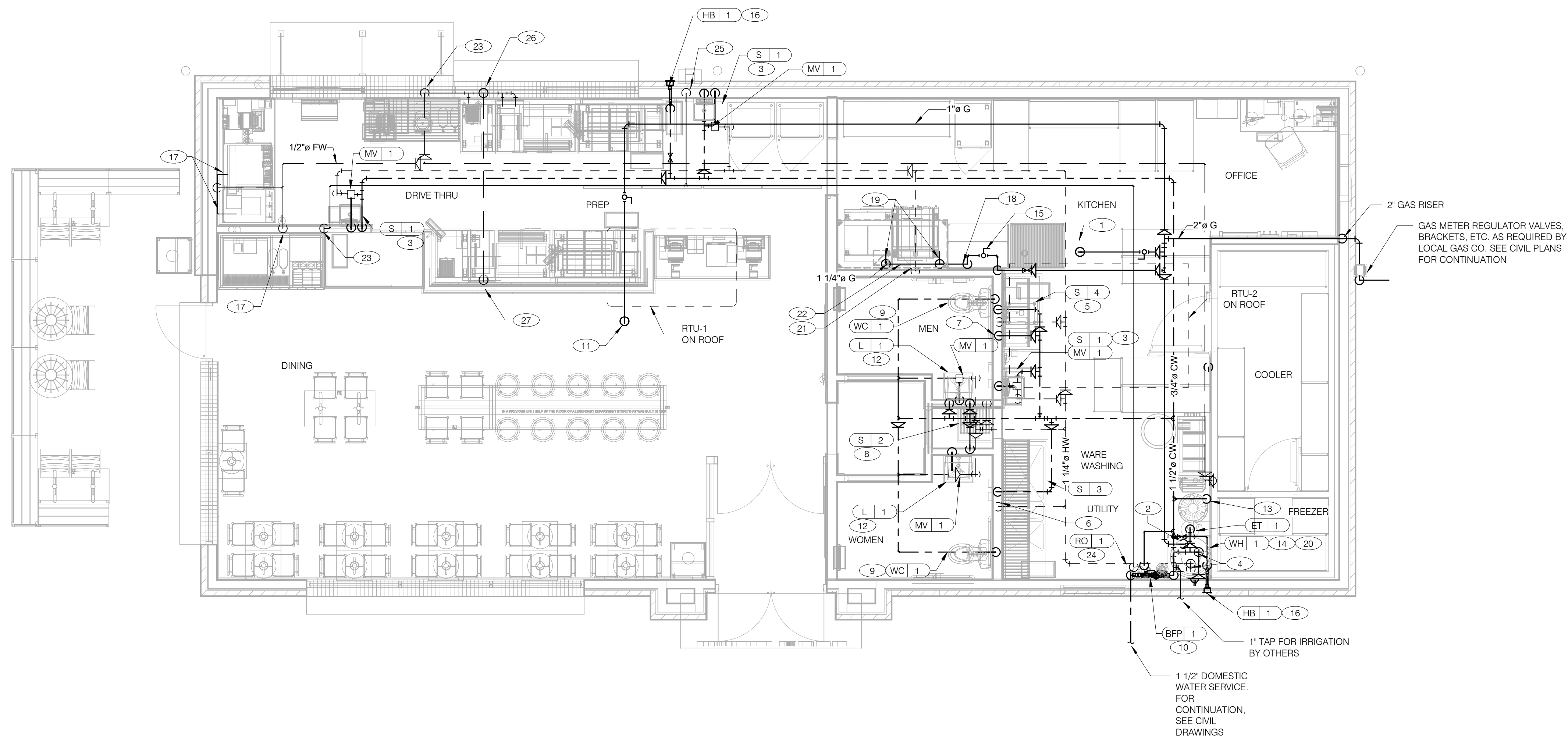
WATER HEATER CONDENSATE DETAIL NTS **4**

- 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 DOWNSPOUT LOCATIONS
- D. VERIFY WITH THE LOCAL BUILDING AUTHORITY THAT CONDENSATE DRAINAGE CAN BE ROUTED TO THE MOP SINK.
- E. ALL PLUMBING LINES IN KITCHEN VISIBLE TO CUSTOMERS SHALL BE STAINLESS STEEL.

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 CONDENSATE LINE AND DRAIN LINE FROM ICE MACHINE TO HD / FS, PROVIDE AIR GAP PER LOCAL CODE. SEE 8/P6.0
- 3 PROVIDE WASTE LINES FROM BEVERAGE UNIT TO HD / FS, PROVIDE AIR GAP PER LOCAL CODE. SEE 8/P6.0
- 4 PROVIDE 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO HUB DRAIN (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE).
- 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 THE AUTHORITY HAVING JURISDICTION.
- 7 NOT USED.
- 8 4" VENT UP THROUGH ROOF.
- 9 PIPE 3-COMPARTMENT SINK TO FLOOR SINK WITH AIR GAP PER CODE.
- 10 1" CONDENSATE DRAIN DOWN FROM RTU-1. SEE DETAIL 10/P6.0.
- 11 1" CONDENSATE DRAIN DOWN FROM RTU-2. SEE DETAIL 10/P6.0.
- 12 1-1/2" 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 THE AUTHORITY HAVING JURISDICTION.
- 13 RUN DRAIN LINE FROM S/S DRINK MACHINE TO FLOOR SINK WITH APPROVED AIR GAP.
- 14 DOWNSPOUT, SEE CIVIL PLANS FOR CONTINUATION.
- 15 ROUTE INDIRECT WASTE FROM WH-1 TO HD-1. REFERENCE DETAIL 2/P6.0 AND DETAIL 4/P2.0.
- 16 COORDINATE INSTALLATION OF DRAIN WITH POURING OF FOUNDATION DURING CONSTRUCTION.

KEYNOTES - WASTE AND VENT NTS **2**



WATER & GAS PLAN 1/4" = 1'-0" **1**

- A. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISH CEILING. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.
- B. NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS", REFER TO ROOF PLAN FOR LOCATIONS.
- C. REFER TO SHT P4.0 FOR ROUGH-IN LOCATIONS.
- D. FLUSH ALL WATER SUPPLY LINES OF ALL DEBRIS AND IMPURITIES PRIOR TO CONNECTING TO WATER FILTERS.
- E. PROVIDE REDUCED PRESSURE BACKFLOW TO SERVE CARBONATOR, DRAIN RELIEF TO FLOOR SINK WITH AIR GAP
- G. ALL PLUMBING LINES IN KITCHEN VISIBLE TO CUSTOMERS SHALL BE STAINLESS STEEL.

- 1 1-1/4" (240 CFH) GAS UP TO RTU-2 WITH DIRT LEG, GAS COCK, UNION.
- 2 1" (199 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 COMPARTMENT SINK. PROVIDE AND INSTALL ATMOSPHERIC VACUUM BREAKER 6" ABOVE HIGHEST ELEVATION OF DETERGENT.
- 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 THE WALL TO THE MOP SINK.
- 9 3/4" CW DOWN IN WALL TO FLUSH TANK WATER CLOSET.
- 10 REDUCED PRESSURE BACKFLOW PREVENTER LOCATED PER LOCAL UTILITY REQ'S. PIPE RELIEF TO HUB SINK.
- 11 1" (108 CFH) GAS UP TO RTU-1 WITH DIRT LEG, GAS COCK, UNION.
- 12 1/2" TEMPERED WATER LINES DOWN IN WALL TO LAVATORY.
- 13 3/4" CW DOWN ALONG WALL TO WATER FILTER S-286.
- 14 WATER HEATER (WH-1), PIPE CONDENSATE LINE, T&P DISCHARGE AND DRAIN PAN TO HUB DRAIN. SEE WATER HEATER DETAIL 2/P6.0.
- 15 EMERGENCY GAS SHUT OFF VALVE LOCATED BELOW CEILING.
- 16 3/4" CW DOWN IN WALL TO EXTERIOR HOSE BIBB. PROVIDE AND INSTALL APPROVED RPZ BACKFLOW DEVICE.

- 17 BUNDLED SYRUP LINES AND FILTERED WATER LINES TO BEVERAGE DISPENSERS S-284 AND S-285, AND FILTERED WATER LINES TO FROZEN BEVERAGE DISPENSER S-739. SEE DRAWINGS A2.0, P5.0, P6.0 AND 1/A&B.6. PROVIDE AND INSTALL ASSE 1022 DOUBLE CHECK VALVE WITH 100-MESH STRAINER FOR SOFT DRINK CARBONATORS.
- 18 1-1/4" GAS DOWN WALL TO TACO BELL 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 2/P6.0.
- 21 1/2" HOT WATER DOWN IN WALL TO TB 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 1/4" 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 TO CONNECTION TO FILTER.
- 25 1/2" FW WATER PIPE DOWN IN WALL AND ROUTED IN LOW WALL OF DRY PRODUCTION LINE TO BREWERS S-546 AND S-547. PROVIDE SHUT-OFF VALVE ON FW PIPING IN CEILING NEAR CHASE.
- 26 ROUTE 1/2" FW DOWN IN WALL BELOW SLAB FOR CHEESEMELTER.
- 27 1/2" FW UP FROM BELOW SLAB TO CHEESEMELTER. PROVIDE SHUT OFF VALVE.

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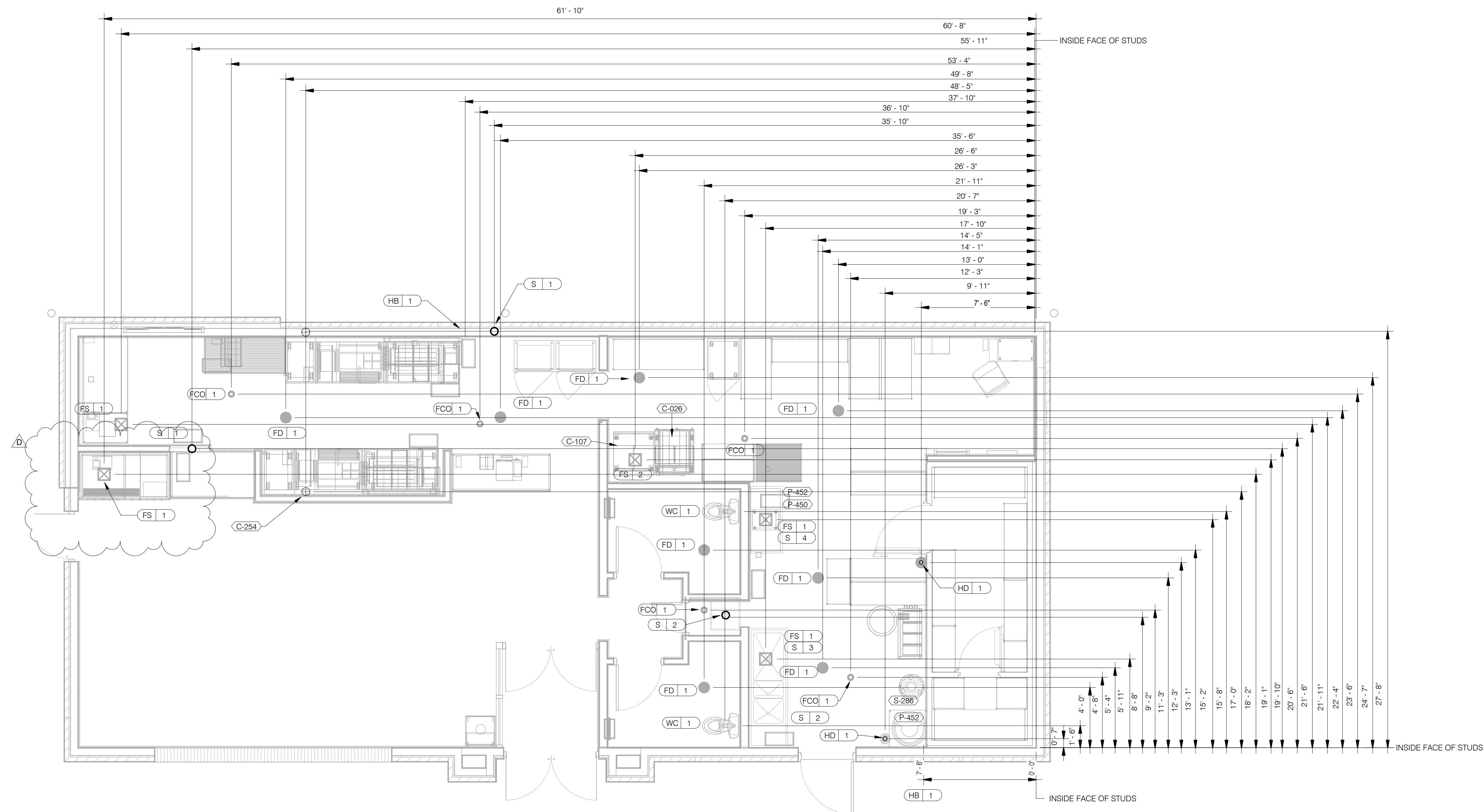
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NORTHLINEROAD
SOUTHGATE, MI 48195



WATER AND GAS PLAN

P3.0



PLUMBING ROUGH-IN PLAN 1/4" = 1'-0" **1**

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS	EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
FS 1	FLOOR SINK		--		S 3	3-COMPARTMENT SINK FAUCET	CW/HW	+38" A.F.F.	--
FS 2	FLOOR SINK			EPOXY COATED CAST IRON	S 4	PREP SINK	W	+19" A.F.F.	--
HD 1	HUB DRAIN		--		S 4	PREP SINK FAUCET	CW/HW	+38" A.F.F.	--
WH 1	WATER HEATER	CW	--		WCO 1	WALL CLEAN OUT		--	
WH 1	WATER HEATER	G	+15" A.F.F.	--	FCO 1	FLOOR CLEAN OUT		--	
WC 1	WATER CLOSET FLUSH VALVE	CW	+29" A.F.F.	BOTH HANDICAP AND REGULAR	HB 1	HOSE BIB		--	
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.	--	C-107	RE THERMALIZER	HW	+8" A.F.F.	
L 1	LAVATORY WASTE LINE	W	+16-1/2" A.F.F.	--	C-107	RE THERMALIZER	G	+12" A.F.F.	
RO 1	REVERSE OSMOSIS	CW	+84" A.F.F.	--	C-026	DUAL VAT FRYER	G	+12" 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-286	WATER FILTER SYSTEM	CW	+94" A.F.F.	INLET TO & OUTLET FROM FILTER
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.	--	P-452	HOT WATER SYSTEM	CW	+24" A.F.F.	

PLUMBING ROUGH-IN SCHEDULE NTS **4**

- HOT WATER
- COLD WATER
- TEMPERED WATER
- ⊠ GAS
- ⊖ FLOOR DRAIN
- ⊠ FLOOR SINK
- HUB DRAIN
- ◆ WASTE OUTLET
- ⊖ FLOOR CLEANOUT
- ⊖ WALL CLEANOUT
- FILTERED WATER
- ◇ VENT UP FROM UNDER SLAB
- WATER LINE THRU FLOOR

SYMBOL LEGEND NTS **3**

- ALL DIMENSIONS TO FLOOR SINKS, FLOOR DRAINS AND HUB DRAINS ARE TO CENTER OF FIXTURE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ALL PLUMBING ROUGH-INS WITH INFORMATION PROVIDED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND THE EQUIPMENT ACTUALLY SUPPLIED AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS INDICATED HEREIN.

PLUMBING ROUGH-IN NOTES NTS **2**

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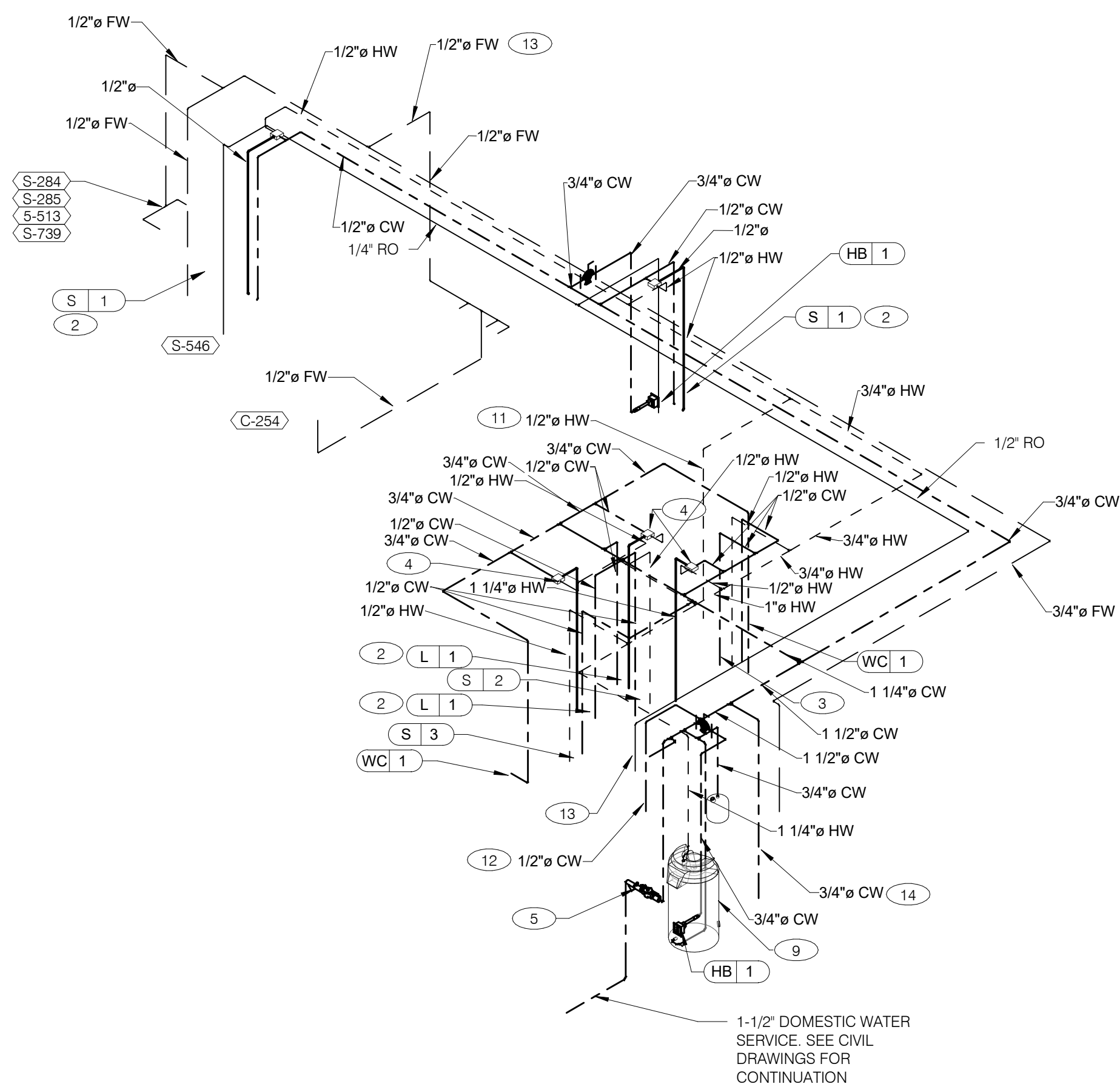
Taco Bell
NORTHLINEROAD
SOUTHGATE, MI 48195

TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

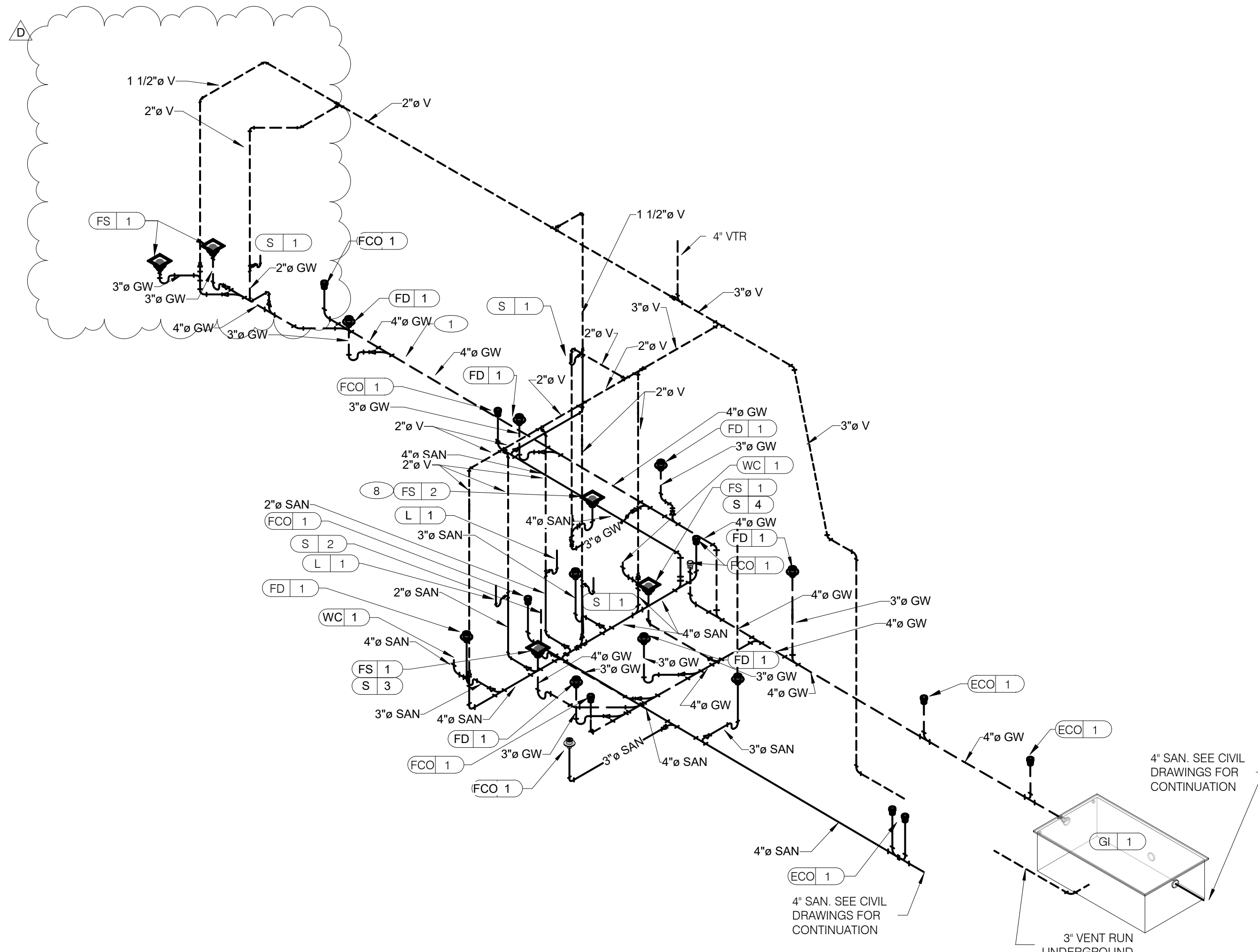
PLUMBING ROUGH-IN PLAN

P4.0

PLOT DATE: 8/7/2018 9:14:23 AM

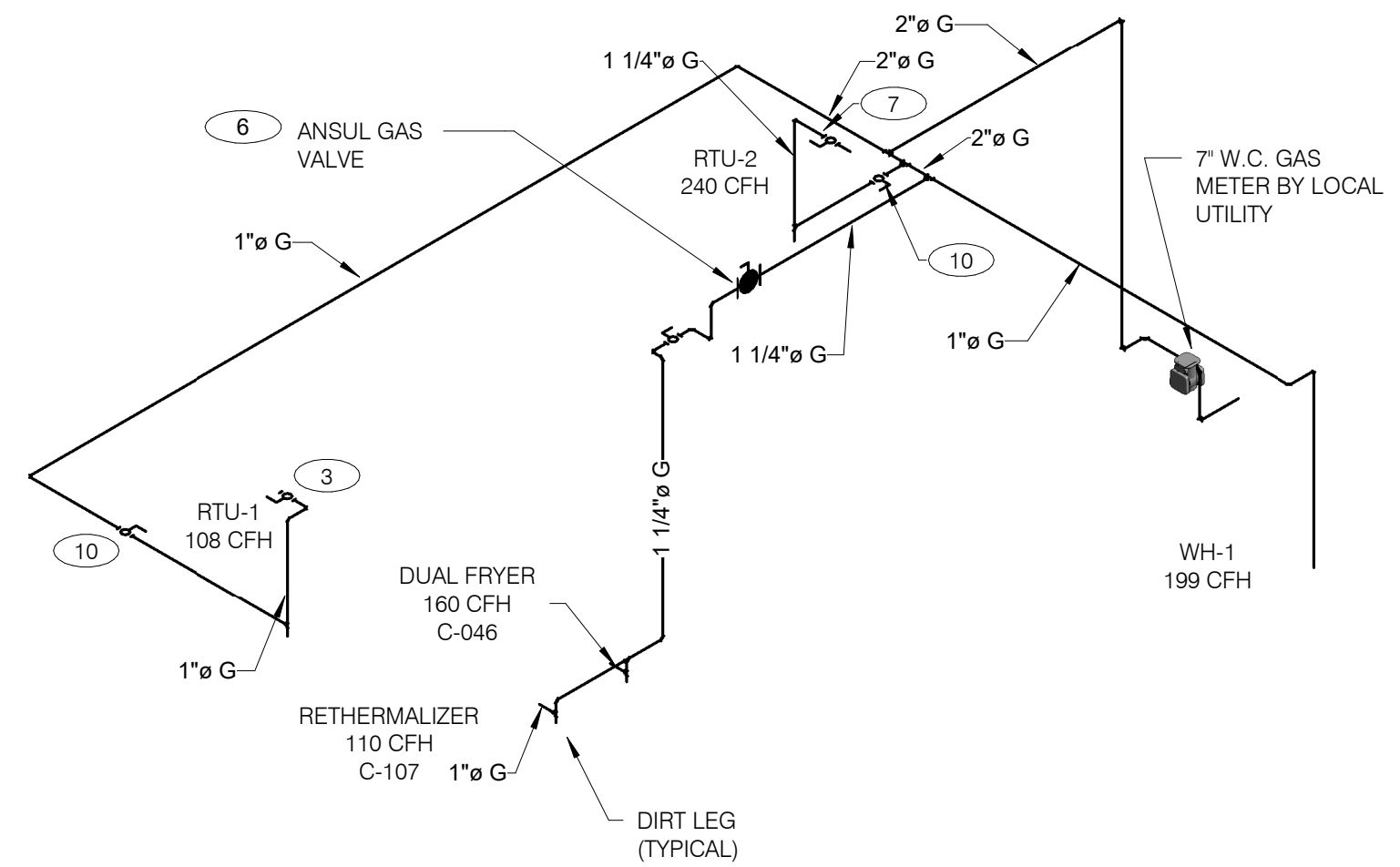


WATER ISOMETRIC NTS 5

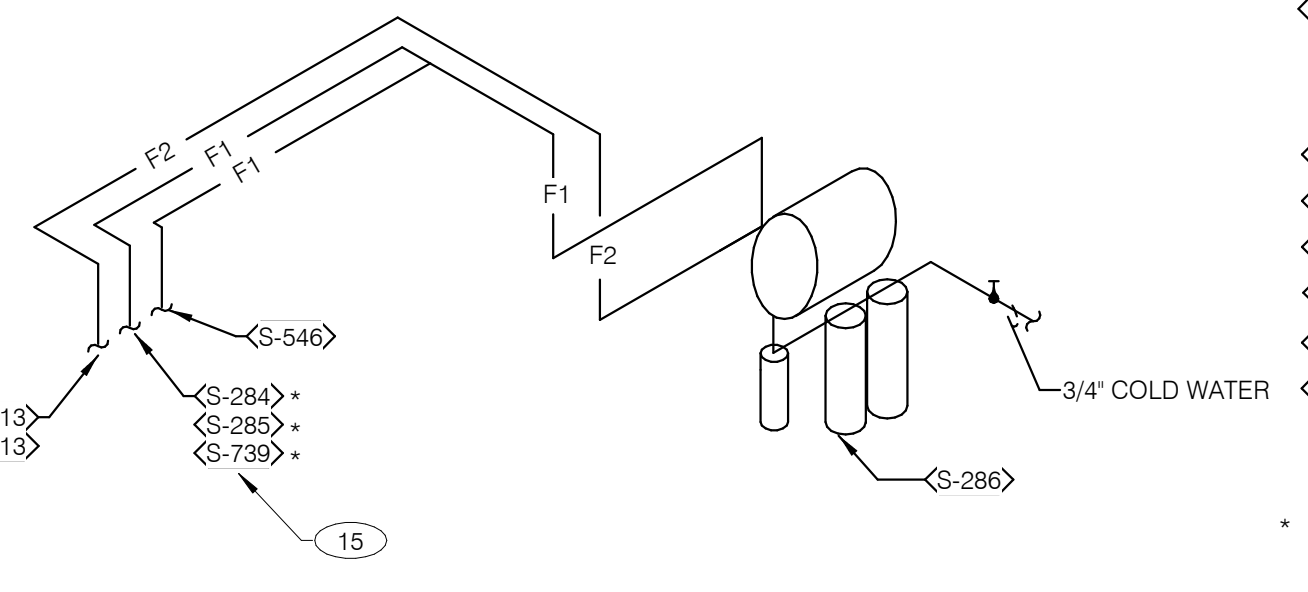


WASTE AND VENT ISOMETRIC NTS 1

GAS DEMAND SCHEDULE	
RTU-1	108 CFH
RTU-2	240 CFH
WH-1	199 CFH
DUAL FRYER	160 CFH
REETHERMALIZER	110 CFH
TOTAL DEMAND	817.0 CFH = 817,000 BTUH
NOTE:	COORDINATE GAS DEMAND REQUIREMENTS WITH SITE-SPECIFIC RTU DESIGN.
PIPE SIZE BASED ON 120' OF PIPE AND 7" W.C.	



GAS ISOMETRIC NTS 4



FILTERED EQUIPMENT AND LINES:
 (S-286) - 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-739) - 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 AND 1/2" COLD WATER TO WATER FILTER FOR HOT WATER SYSTEM P-450.
- 4 THERMOSTATIC MIXING VALVE.
- 5 REDUCED PRESSURE BACKFLOW PREVENTER PER LOCAL UTILITY REQ'S. PROVIDE SHUT-OFF VALVES AT BOTH SIDES OF BACKFLOW PREVENTER. VERIFY LOCATIONS WITH CIVIL DWGS.
- 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 FACTORY 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 GAS SHUT-OFF VALVE IN CEILING SPACE BY G.C.
- 11 1/2" HOT WATER PIPE DOWN IN WALL. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO TB 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" FILTERED 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 3/4" COLD WATER TO WATER SYSTEM FILTER.
- 15 TEE OFF 3/8" LINE FROM DRIVE THRU BEVERAGE DISPENSER FILTERED WATER SUPPLY. SEE DETAIL 8/P6.0.

KEYNOTES - ISOMETRICS NTS 3

08.06.18	ISSUED FOR CONSTRUCTION
D 07.11.18	HEALTH COMMENTS
06.20.18	ISSUED FOR BID
A 05.24.18	HEALTH COMMENTS
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312529/445209
 STORE NUMBER: 2017088.20

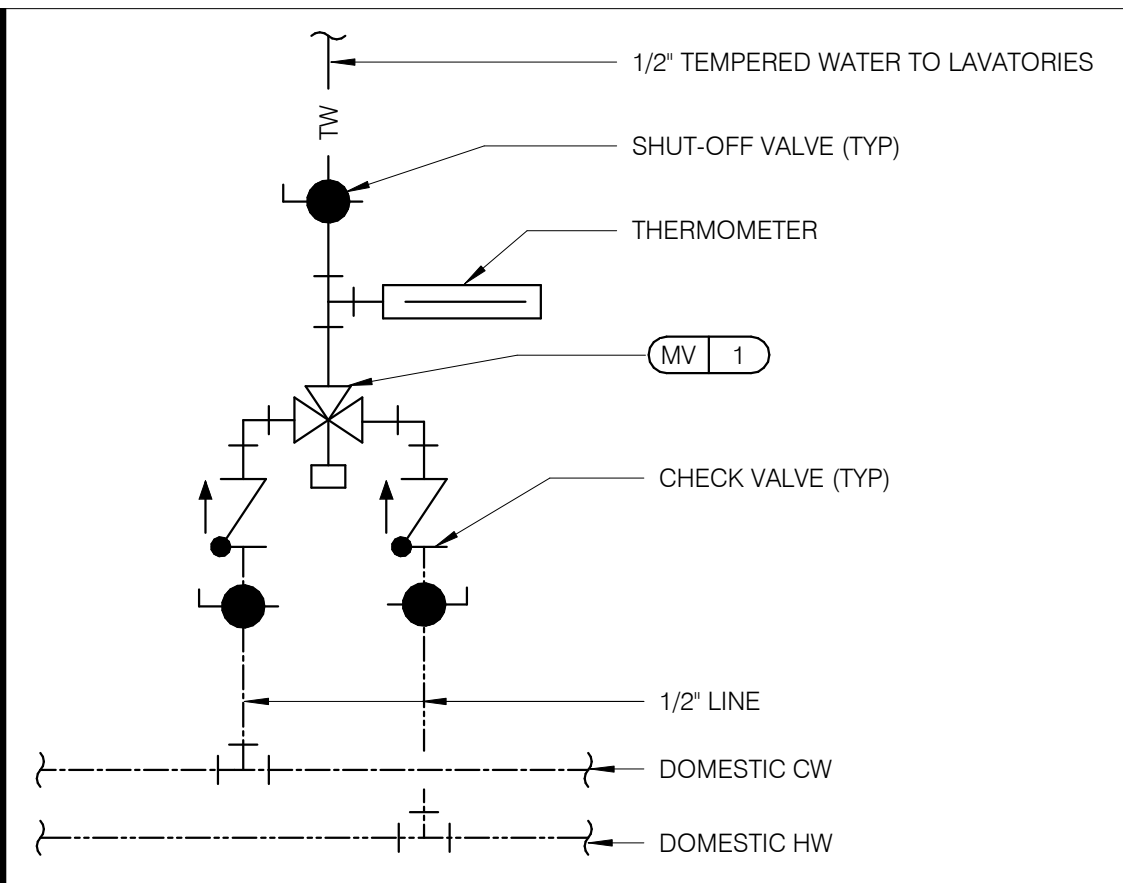
Taco Bell
 NORTHLINEROAD
 SOUTHGATE, MI 48195

T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

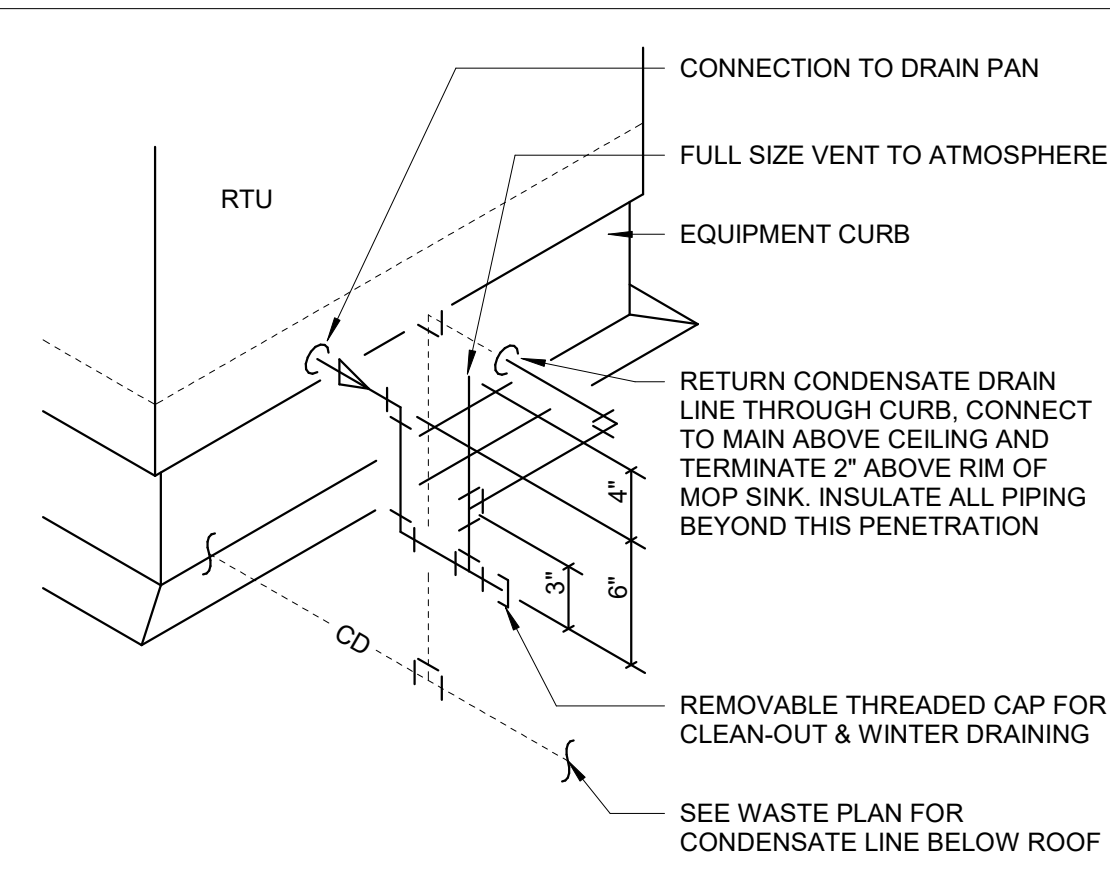
RISER DIAGRAMS

P5.0

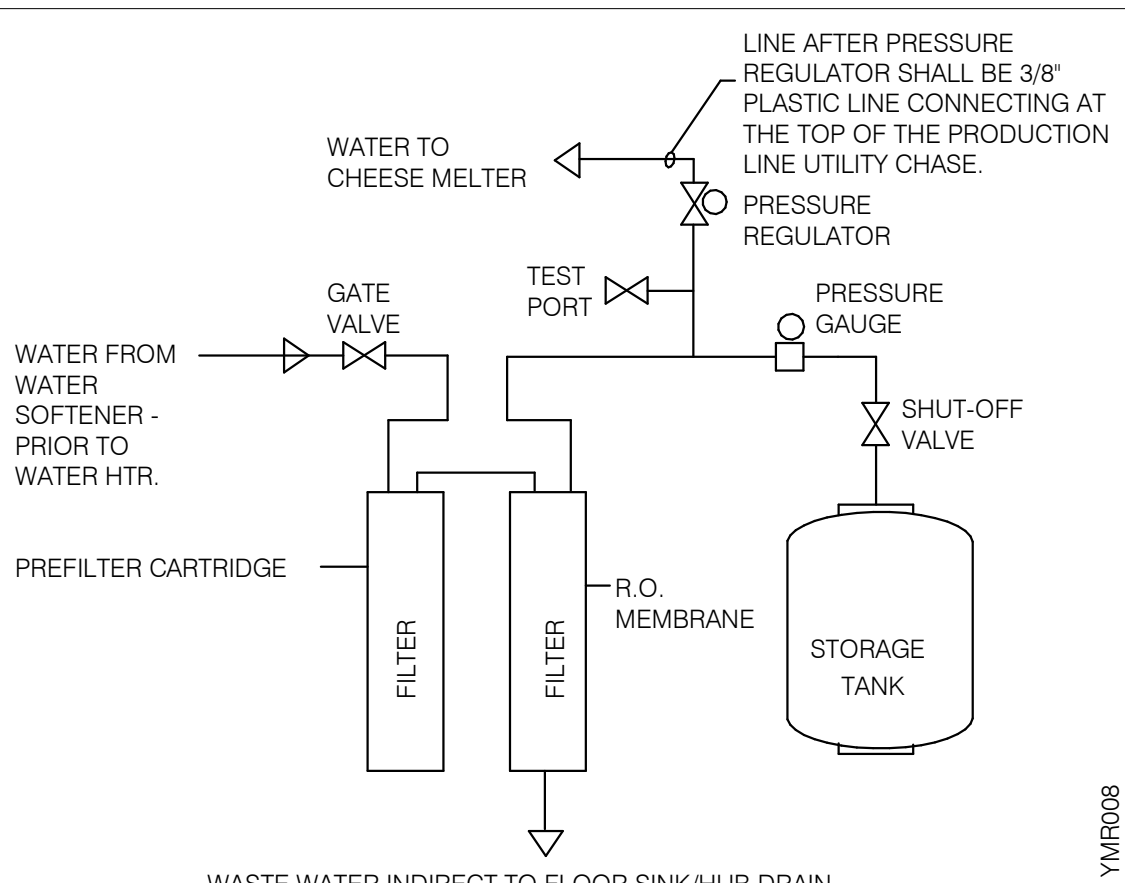
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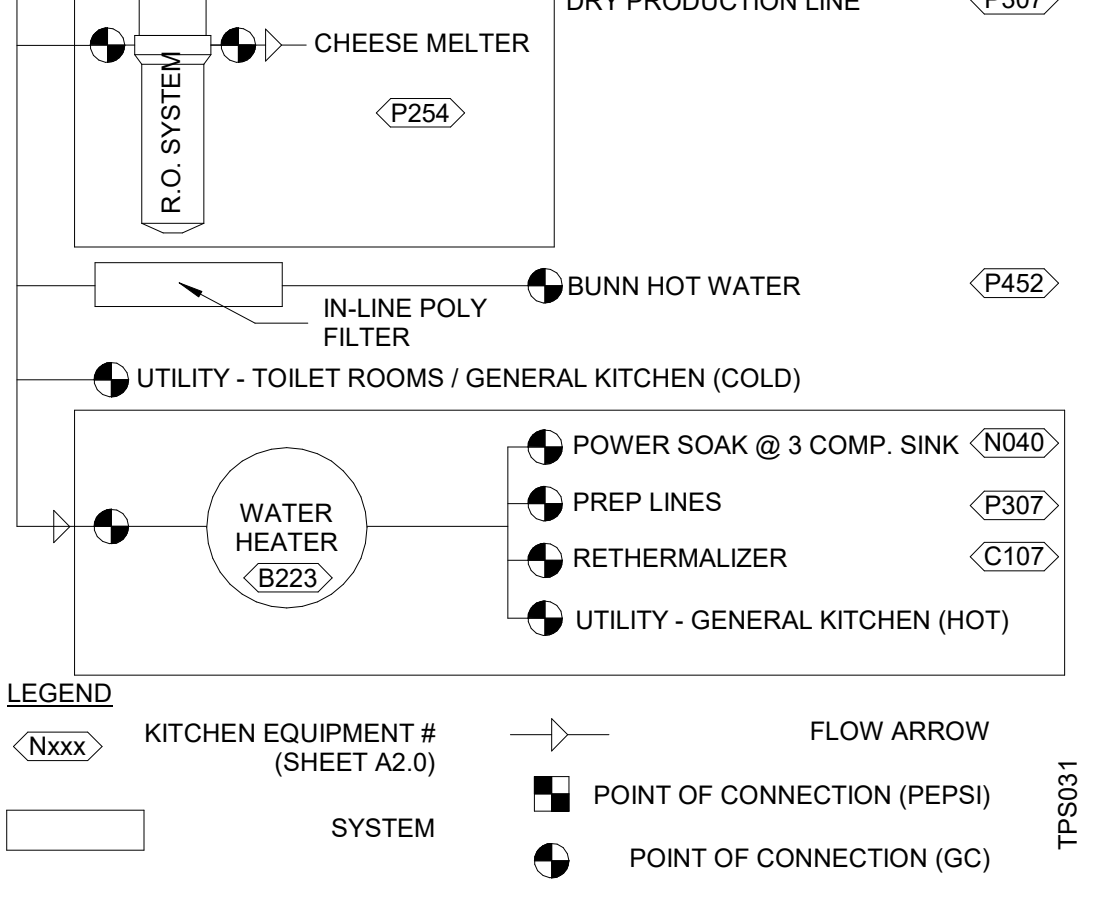
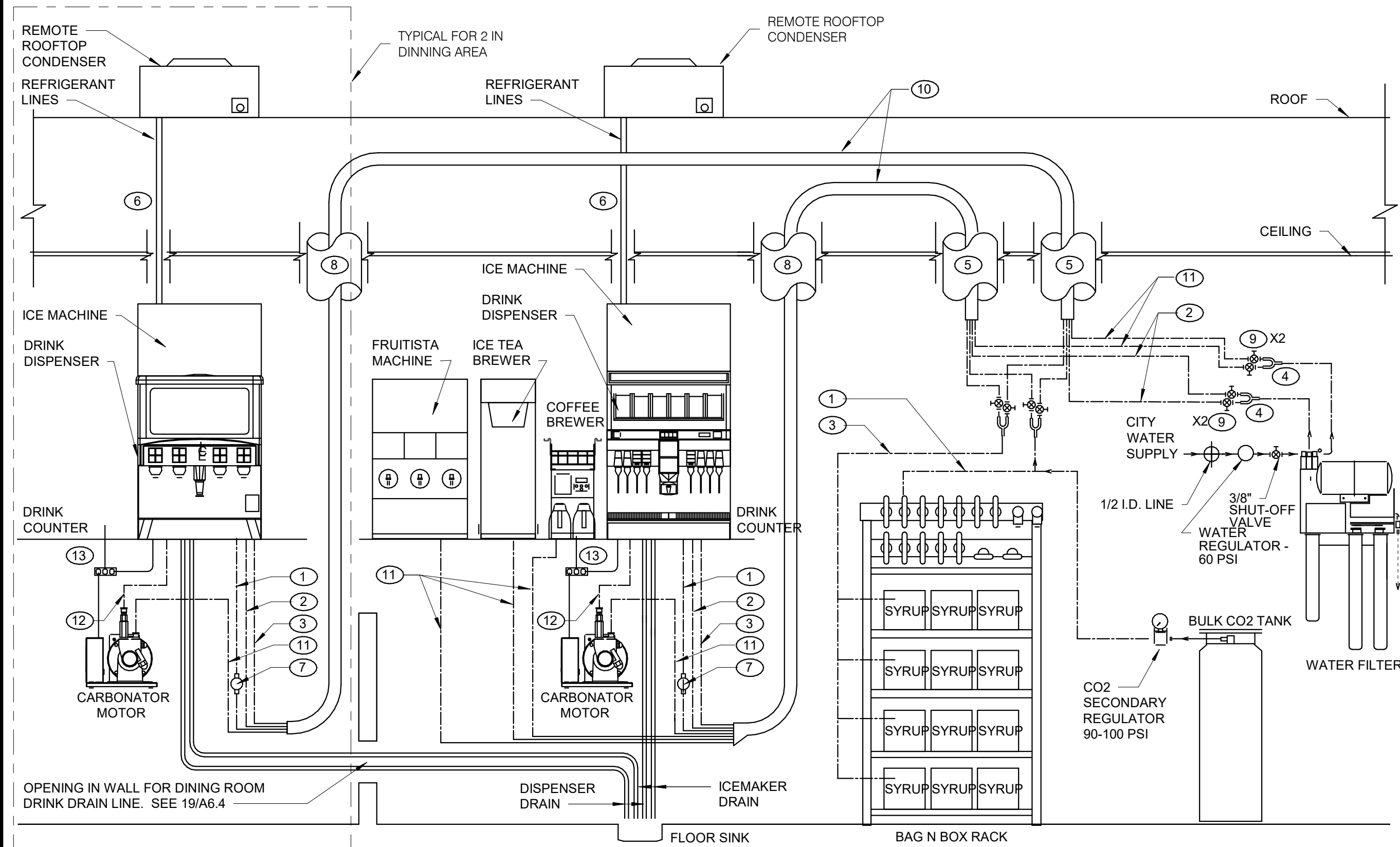
TEMPERING VALVE NTS 11



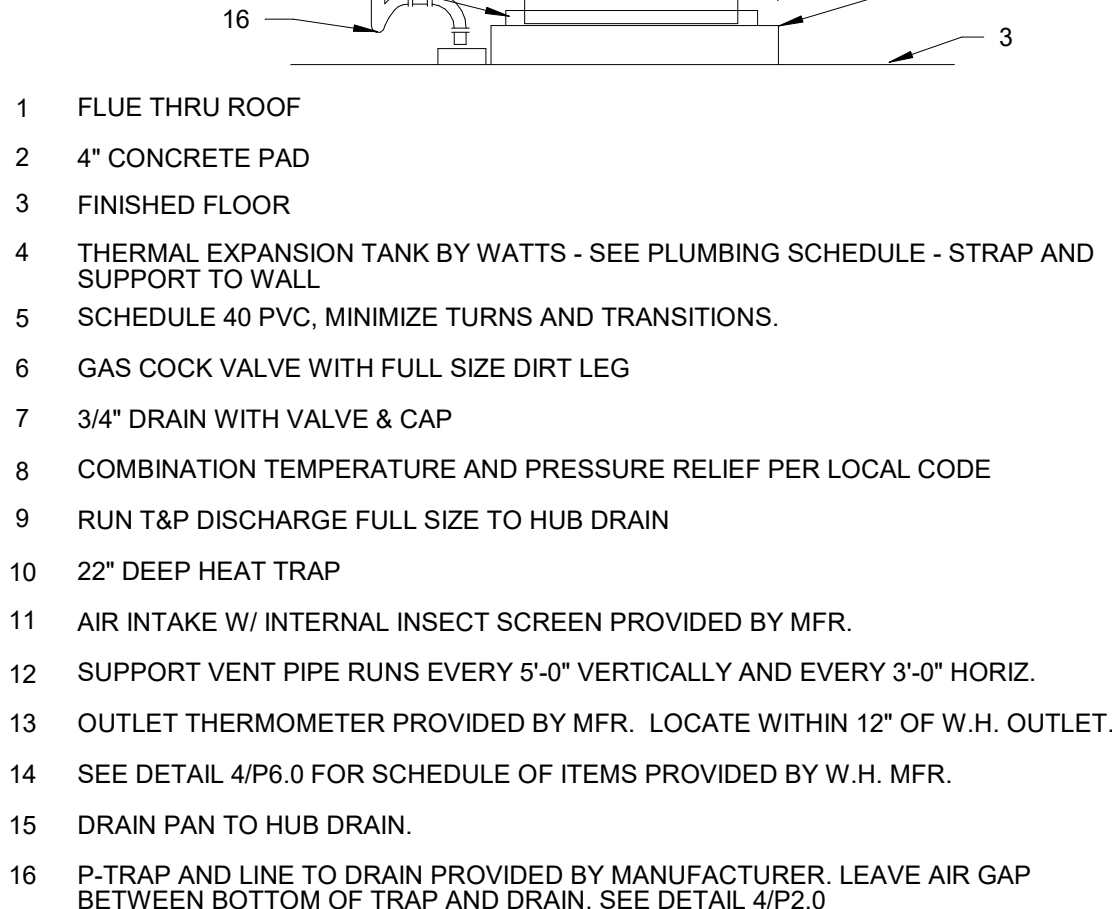
RTU CONDENSATE NTS 10



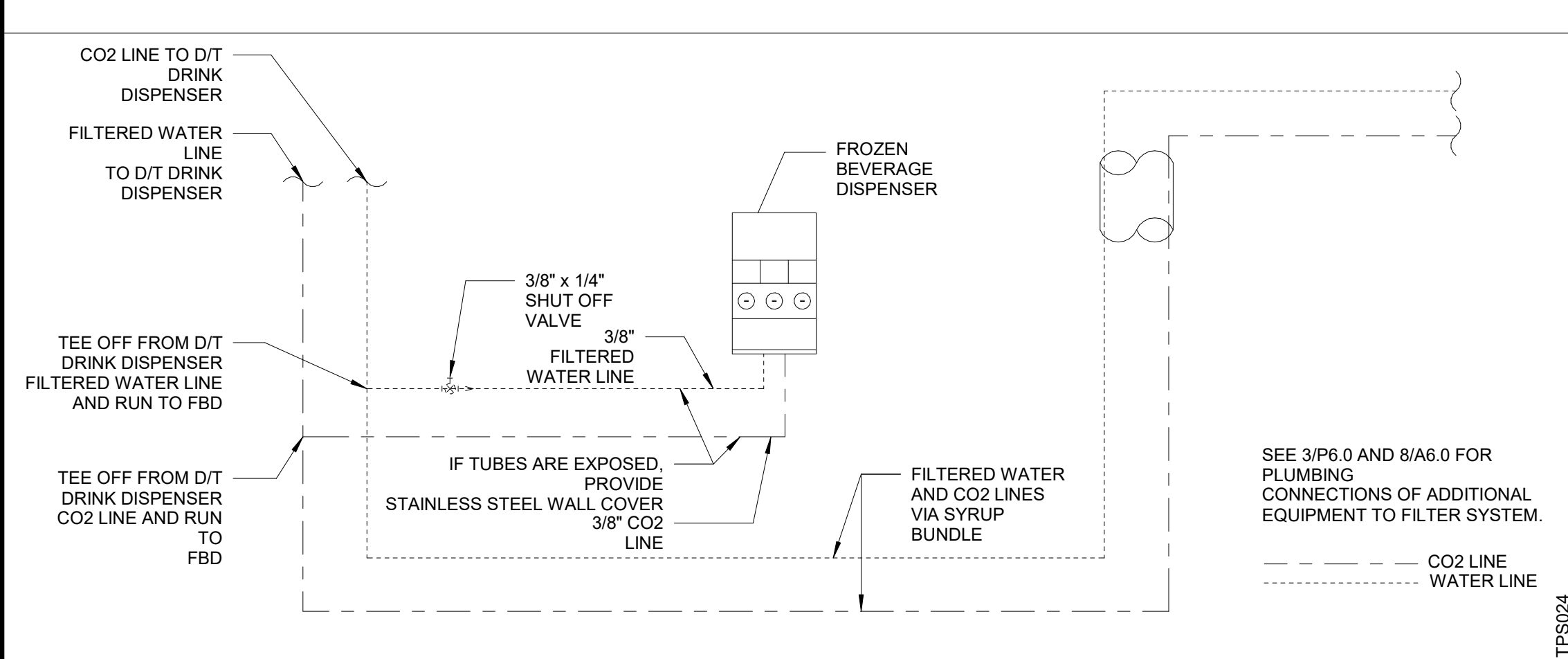
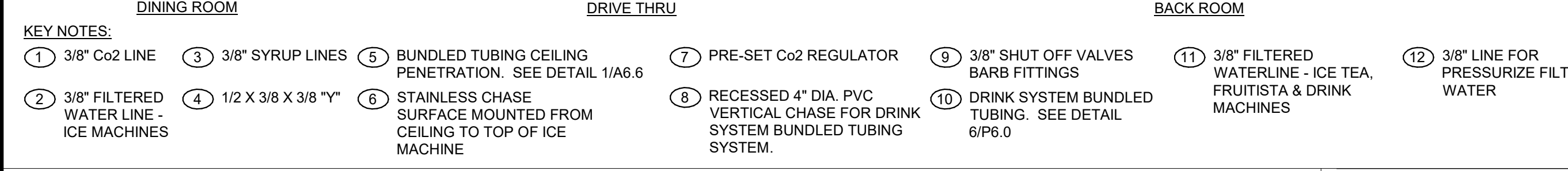
REVERSE OSMOSIS SYSTEM NTS 9



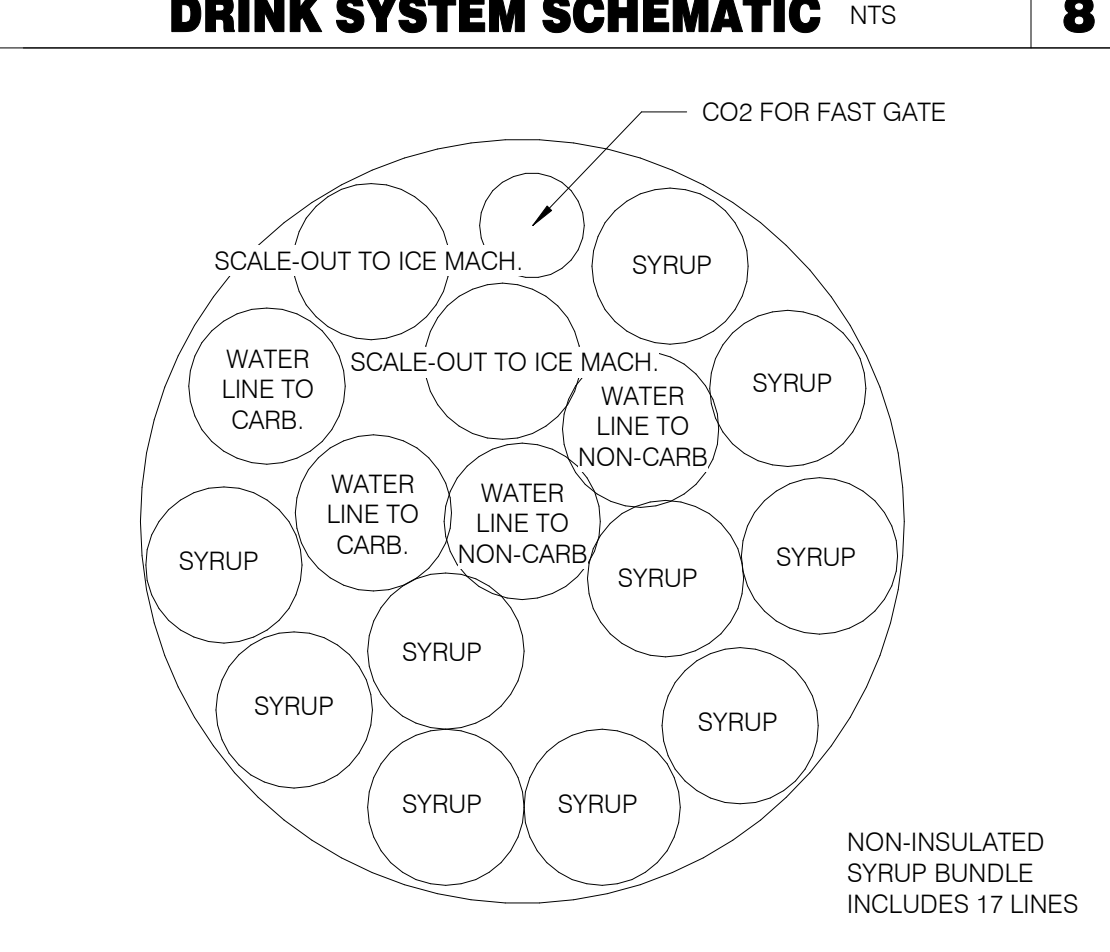
WATER FILTRATION SCHEMATIC NTS 3



WATER HEATER NTS 2



FBD DRINK SYSTEM DETAIL NTS 7



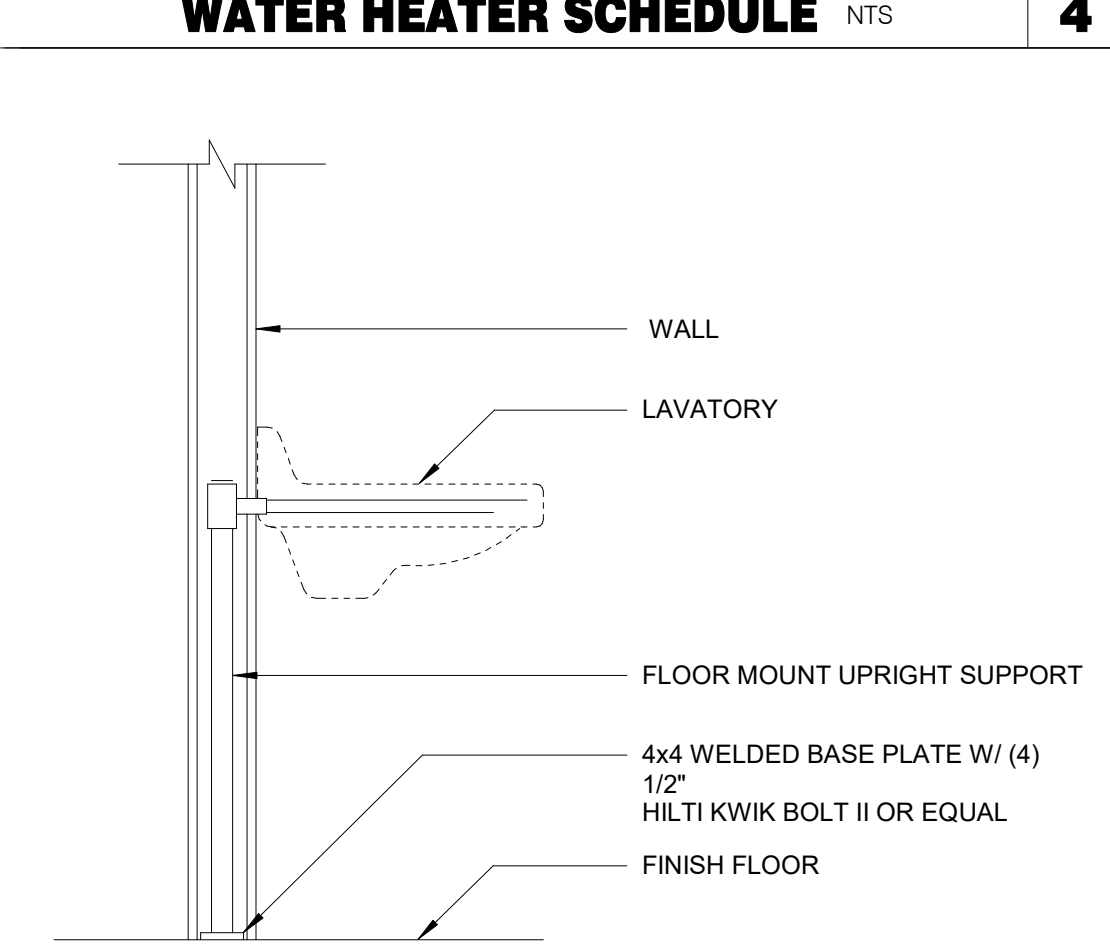
SYRUP BUNDLE CONFIGURATION NTS 6

WATER HEATER SCHEDULE NTS 4

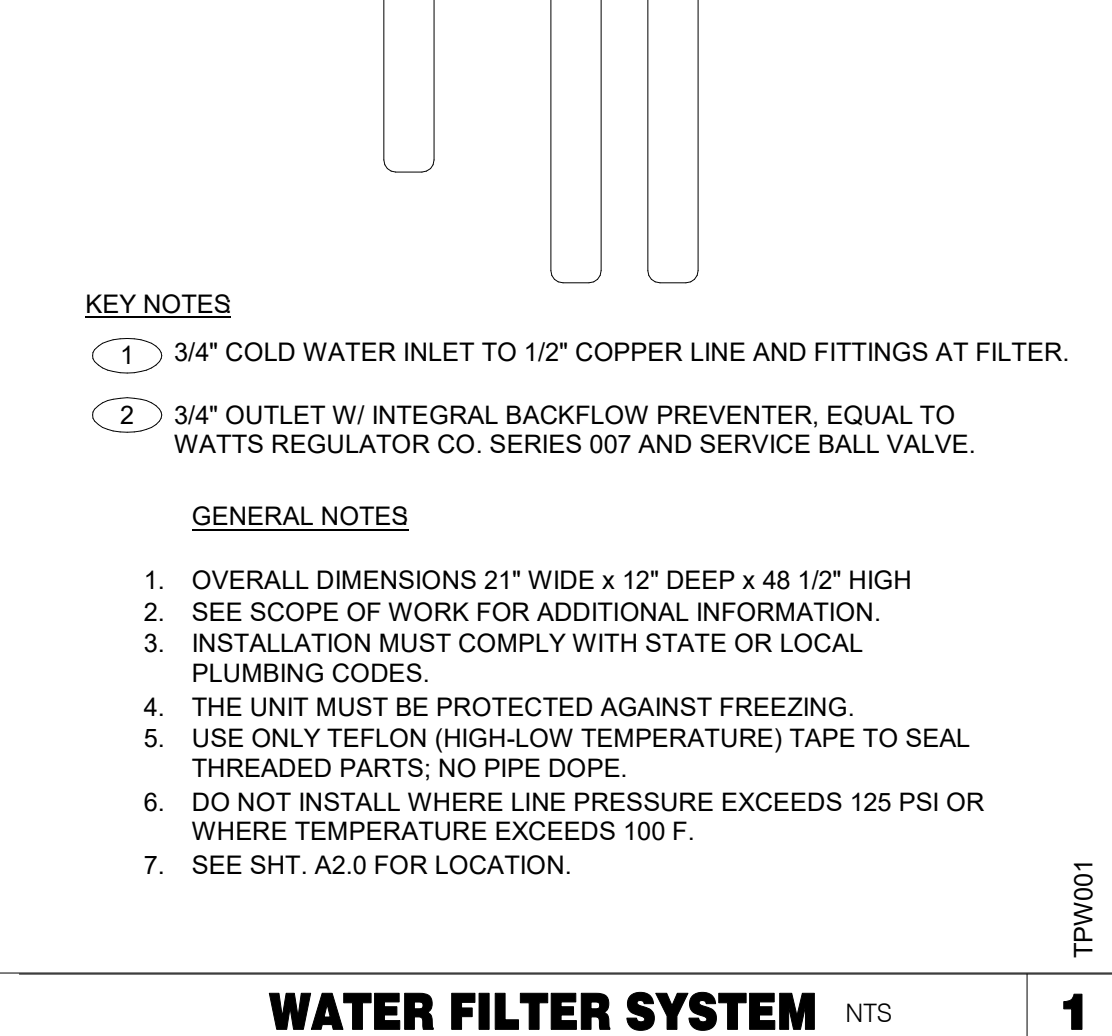
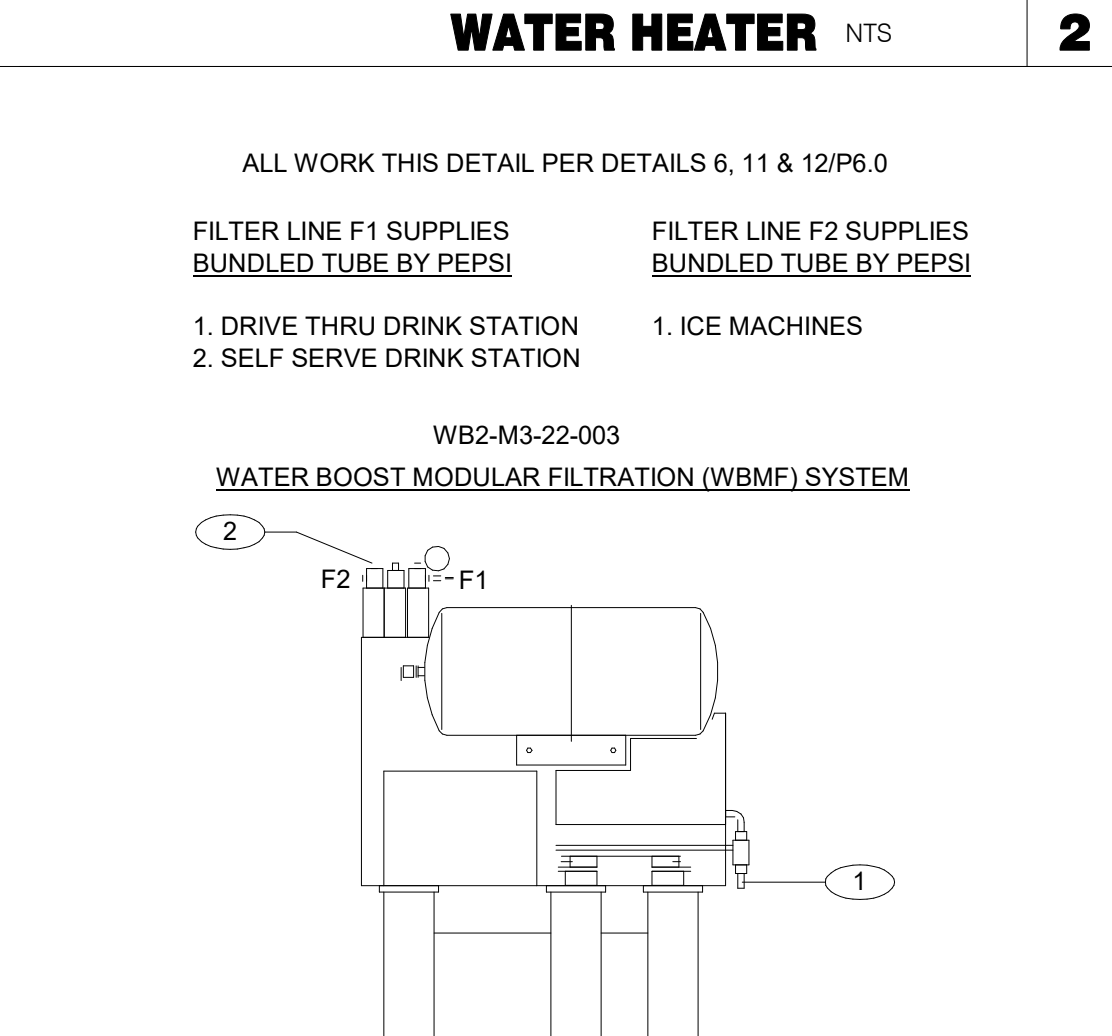
QTY	MODEL #	DESCRIPTION
1	EF100T199E3N	BWC HIGH EFFICIENCY COMMERCIAL WATER HEATER
1	MFK7	MANIFOLD KIT *
1	DET12	EXPANSION TANK
1	HAL	ALARM LIGHT W/ INSTALLATION INSTRUCTIONS
1	PK100	STAND

* THE FOLLOWING IS INCLUDED IN THE MANIFOLD KIT:

QTY	DESCRIPTION
1	3/4" BLK GAS COCK
1	3/4" BLK UNION
1	3/4" BLK TEE
1	3/4" BLK CAP
3	3/4" x 2 1/2" BLK NIPPLE
1	3/4" x 4 BLK NIPPLE
1	3/4" THD BALL VALVE
2	1 1/2" FX UNION
6	1 1/2" CXC 90
1	1 1/2" CXC TEE
2	1 1/2" BALL VALVES CXC
1	1 1/2" CHECK VALVES CXC
1	1 1/2" GALV ST 90
1	1 1/2" CX ST 90
1	HPT-507 1/2" P-TRAP
1	1/2" P4 SMA
1	1 1/2" x 1 1/2" x 1/2" TEE COPPER
1	DIAL THERMOMETER
1	1/2" COPPER FEMALE FITTING ADAPTER
1	3" PVC 90°
1	1/2" PVC STREET 90°
1	1/2" PVC 90° ELBOW



LAVATORY SUPPORT NTS 5



WATER FILTER SYSTEM NTS 1

DATE	ISSUED FOR
08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

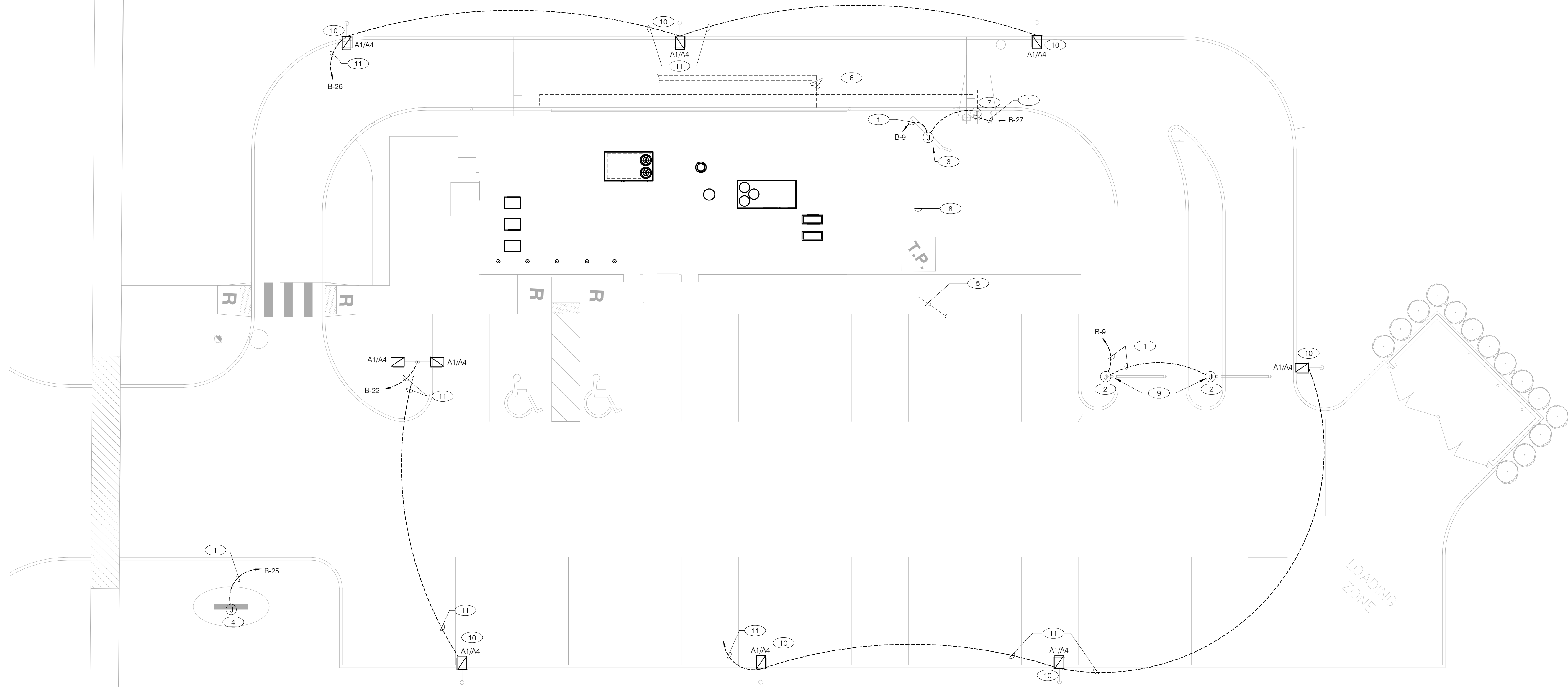
Taco Bell
NORTHLINEROAD
SOUTHGATE, MI 48195

TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

PLUMBING DETAILS

P6.0

PLOT DATE: 8/7/2018 9:14:30 AM



08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

Taco Bell
NORTHLINEROAD
SOUTHGATE, MI 48195



T40M-O
OPEN KITCHEN
MODERN EXPLORER

SITE ELECTRICAL PLAN

- 1 3/4" C. - 2 #10, #10 GRD. (TYP. FOR ENTIRE CIRCUIT.)
- 2 PROVIDE CONNECTION TO ORDER CANOPY ON SAME CIRCUIT AS MENU BOARD AND CLEARANCE BAR. REFER TO DETAIL 3/E7.0.
- 3 MENU BOARD. REFER TO DETAIL 3/E7.0.
- 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 UNDERGROUND TELEPHONE SERVICE. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
- 7 ORDER CONFIRMATION BOARD/ SPEAKER POST.
- 8 UNDERGROUND SECONDARY ELECTRICAL SERVICE. REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES.
- 9 ILLUMINATED CLEARANCE BAR.
- 10 SITE LIGHTING. REFER TO E4.0 FOR SCHEDULE.
- 11 3 / 4" C. - 2 # 8, #8 GND.

E1.0

NATIONAL ACCOUNTS: SWITCHGEAR
SUPPLY and INSTALL STANDARD PACKAGE

CORPORATE AND FRANCHISE DEVELOPMENT

YUM NATIONAL ACCOUNT AGREEMENT IS WITH SQUARE-D FOR ELECTRICAL SWITCHGEAR EQUIPMENT FOR COMPANY AND FRANCHISE DEVELOPMENT. CUTLER-HAMMER ELECTRICAL SWITCHGEAR EQUIPMENT IS AN APPROVED ALTERNATE MANUFACTURER FOR FRANCHISE DEVELOPMENT ONLY.

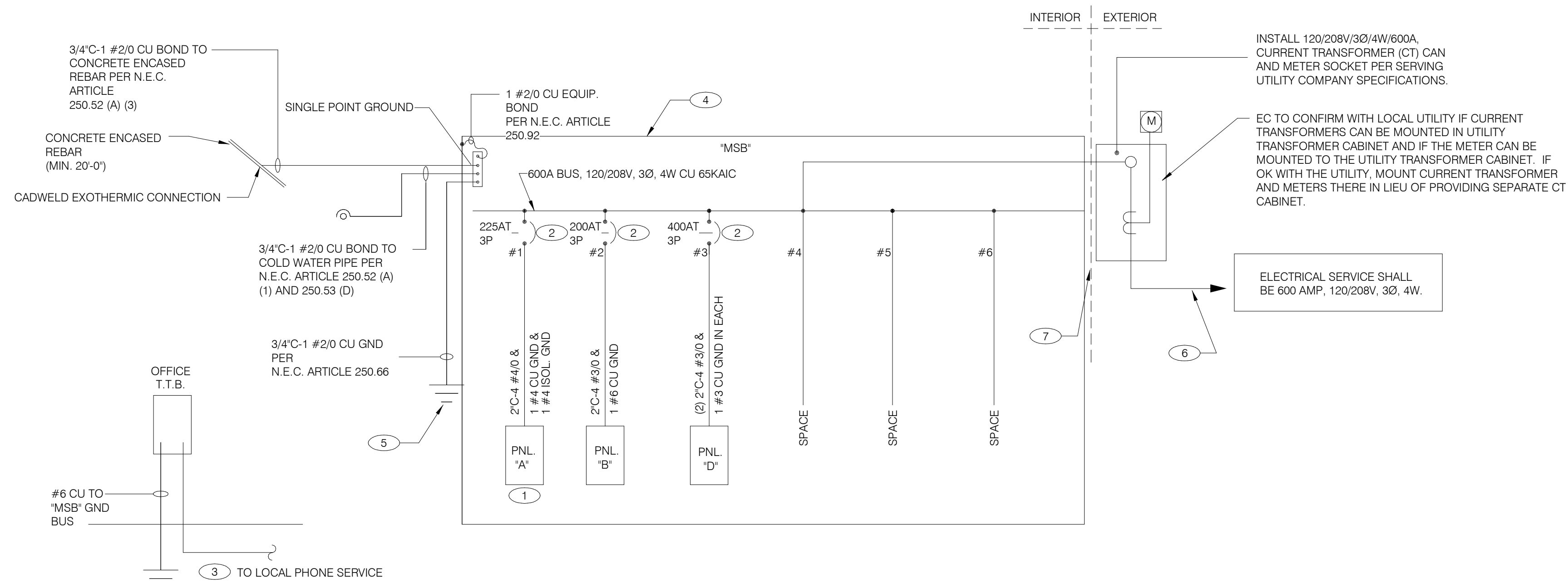
UNDER THIS AGREEMENT, THE CONTRACTOR IS RESPONSIBLE FOR PURCHASE AND INSTALLATION OF THE SYSTEMS DESCRIBED IN THE PLANS. ALL COMPANY AND FRANCHISE PROJECTS SHALL CONTACT ACCUSERVE FOR A PRICE QUOTE AND A BILL OF MATERIAL CONFIRMATION FOR THEIR SPECIFIC PROJECT. SEE THE SWITCHGEAR SECTION IN THE SCOPE OF WORK FOR ADDITIONAL INFORMATION.

PRIMARY CONTACT: BUDDY BOCKWEG
PHONE: (877) 707-7378
FAX: (502) 961-0357
EMAIL: HYPERLINK "mailto:buddy@accuserv.com" buddy@accuserv.com

THE SWITCHGEAR PACKAGE CONSISTS OF SERVICE ENTRANCE, SWITCHGEAR, MAIN PANELS, SUB PANELS, LIGHTING CONTACTORS AND ALL ASSOCIATED PRODUCTS TO COMPLIMENT THE SWITCHGEAR PACKAGE.

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 PROTOTYPICAL DESIGN.

NOTE: THE SITE-ADAPT CONSULTANT IS RESPONSIBLE FOR DETERMINING IF THE SITE-SPECIFIC SWITCHGEAR PACKAGE FALLS WITHIN A JURISDICTION THAT REQUIRES EUSERC-COMPLIANT METERING EQUIPMENT.



SINGLE LINE DIAGRAM NTS **A**

	2X4 FLUORESCENT FIXTURE	NL	NIGHTLIGHT		FUSIBLE DISCONNECT SWITCH WITH STARTER
	2X4 FLUORESCENT FIXTURE WITH BATTERY PACK	(S)	CEILING MOUNTED SPEAKER		FUSIBLE DISCONNECT SWITCH
	1X4 FLUORESCENT FIXTURE	(W)	WALL MOUNTED SPEAKER		NON-FUSIBLE DISCONNECT SWITCH
	1X4 FLUORESCENT FIXTURE WITH BATTERY PACK	(J)	JUNCTION BOX		PHOTOCELL
	DOWNLIGHT FIXTURE	(J)	WALL MOUNTED JUNCTION BOX		RAIN SENSOR
	SUSPENDED DOWNLIGHT FIXTURE	(T)	TELEPHONE OUTLET		FLUORESCENT WALL MOUNT FIXTURE
	PENDANT MOUNTED LIGHT FIXTURE	(D)	DEDICATED GROUNDED OUTLET		EMERGENCY LIGHT
	TRACK MOUNTED PENDANT LIGHT FIXTURE	(D)	DUPLEX GROUNDED OUTLET		SINGLE POLE, SINGLE THROW TOGGLE SWITCH
	DIRECTIONAL FIXTURE, TRACK MOUNTED	(D)	DUPLEX GROUNDED OUTLET		SINGLE POLE, SINGLE THROW TOGGLE SWITCH W/ PILOT LIGHT
	DIRECTIONAL FIXTURE, TRACK MOUNTED TO UNDERSIDE OF INTERIOR CANOPY	(D)	DOUBLE DUPLEX GROUNDED OUTLET		WALL MOUNTED OCCUPANCY SENSOR
	COOLER FIXTURE	(D)	GROUND FAULT DUPLEX OUTLET		RELAY
	EXIT SIGN (WALL MOUNTED)	(D)	GROUND FAULT DUPLEX W/ BOTT. HALF SWITCHED		CONDUIT RUN, UNDERGROUND
	EXIT SIGN (CEILING MOUNTED)	(D)	GROUND FAULT DEDICATED OUTLET		SMOKE DETECTOR
	SECURITY STROBE	(D)	CEILING DUPLEX OUTLET		EXTERIOR WALL FIXTURE
		(D)	DUPLEX ISOLATED GROUND OUTLET		EXTERIOR DECORATIVE WALL FIXTURE
		(D)	DOUBLE DUPLEX ISOLATED GROUND OUTLET		EXTERIOR DECORATIVE WALL FIXTURE
		(D)	DEDICATED ISOLATED GROUND		WEATHERPROOF GROUND FAULT
		(D)	SPECIAL PURPOSE OUTLET		
		(D)	CEILING SPECIAL PURPOSE OUTLET		
		(D)	ELECTRICAL PANEL, SEE SHEET E2.1 FOR PANEL SCHED.		
		(D)	HOLD UP EMERGENCY BUTTON		
		(D)	ELECTRICAL MOTOR		
		(D)	DUCT MOUNTED SMOKE DETECTOR		
		(D)	CONNECTION TO EQUIPMENT		

ELECTRICAL LEGEND NTS **D**

- 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'.
- THE NFPA-70 'SIX SWITCH' MAXIMUM RULE SHALL APPLY AT THE POINT AT WHICH THE SERVICE ENTERS THE BUILDING AS DEFINED BY NFPA-70 (CURRENT EDITION IN FORCE AT THIS SITE). NOTIFY ENGINEER WHERE LOCAL CONDITIONS REQUIRE ALTERNATE LOCATIONS OR SINGLE POINT DISCONNECT.
- SEE SCOPE OF WORK FOR DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL OTHER ASPECTS OF THE PROJECT.
- 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.
- 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.
- ALL WIRING SHOWN SHALL BE COPPER TYPE "THHN/THWN" EXCEPT FEEDERS FROM UTILITY TRANSFORMER TO SWITCH BOARD MAY BE ALUMINUM. CONTRACTOR SHALL RESIZE CONDUCTORS/CONDUITS PER NEC.
- 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. CABLES SHLL CONTAIN GREEN CU CODE SIZED GROUND CONDUCTOR. CABLE MUST BE ALLOWED BY LOCAL JURISDICTION.

ONE LINE DIAGRAM GENERAL NOTES NTS **C**

- 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.
- 6 BUILDING MAIN DISCONNECTS FOR THIS SERVICE: (MAXIMUM 6 MAINS PER N.E.C.) LABEL EACH MAIN BREAKER AS INDICATED:
 "MAIN 1 OF 6" (ENGRAVED LETTERS x 3/4" HIGH, TYP.)
 "MAIN 2 OF 6"
 "MAIN 3 OF 6"
 "MAIN 4 OF 6"
 "MAIN 5 OF 6"
 "MAIN 6 OF 6"
- PROVIDE 2" CONDUIT STUBBED INTO BULDING FROM LATERAL POLE FOR TELEPHONE.
- 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.
- (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
- PROVIDE UNDERGROUND SERVICE LATERAL TO UTILITY TRANSFORMER PER SERVING UTILITY COMPANY SPECIFICATIONS. 4#350 KCMIL IN EACH OF (2) 3". TO PAD MOUNT TRANSFORMER, GC/ELECT. CONTRACTOR SHALL COORDINATE SERVICE POLES PER LOCAL UTILITY CODE. IF ALUMINUM CONDUCTORS ARE USED PROVIDE 4#500 KCMIL IN EACH (2) 3-1/3".
- PROVIDE ONE MAIN SERVICE ENTRANCE 600 AMP SERVICE DISCONNECT OR MAIN BREAKER IF REQUIRED BY LOCAL JURISDICTION. VERIFY BEFORE BID AND BEFORE ORDERING EQUIPMENT OR START OF CONSTRUCTION.

ONE LINE DIAGRAM KEY NOTES NTS **B**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312529/445209
 STORE NUMBER: 2017088.20

Taco Bell
 NORTHLINEROAD
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TACO BELL
 T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

ELECTRICAL ONE LINE DIAGRAMS AND LEGEND

E2.0

PLOT DATE: 8/7/2018 9:11:57 AM

Switchboard: MSB

Location:
Supply From: MSB
Mounting: SURFACE
Enclosure: NEMA-3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65 KAIC
Mains Type: M.C.B
Mains Rating: 600 A
MCB Rating: 600 A

Notes:

CKT	Circuit Description	WIRE SIZE	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANELBOARD A		3	225 A	225 A	51486 VA	--
2	PANELBOARD B		3	225 A	200 A	21199 VA	--
3	PANELBOARD D		3	400 A	400 A	70716 VA	--
4							
5							
6							
Total Conn. Load:						143400 VA	
Total Amps:						398 A	
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals		
HVAC		13885 VA	100.00%	13885 VA			
Kitchen		10316 VA	65.00%	6705 VA	Total Conn. Load:	143400 VA	
Lighting		14875 VA	125.00%	18594 VA	Total Est. Demand:	143508 VA	
Other		19037 VA	100.00%	19037 VA	Total Conn. Current:	398 A	
Power		58209 VA	100.00%	58209 VA	Total Est. Demand Current:	398 A	
Receptacle		7684 VA	100.00%	7684 VA			
Refrigeration		18894 VA	100.00%	18894 VA			
Spare		500 VA	100.00%	500 VA			

Branch 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: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Wire Size	Trip	Poles	A	B	C	Poles	Trip	Wire Size	Circuit Description	CKT	
1	P-417 TIMER		20 A	1	180 VA	300 VA		1	20 A		F-040 OFFICE COMPUTER	2	
3	S-546 ICED TEA		20 A	1		240 VA	720 VA	1	20 A		DRIVE THRU POS/ORDER ENTRY 1	4	
5	OFFICE QUAD RECEPTACLE		20 A	1			880 VA	480 VA	1	20 A	S-547 BREWER	6	
7	J-BOX SECURITY SYSTEM / DVR		20 A	1	1180 VA	1200 VA			1	20 A	DINING POS ENTRY 1	8	
9	OFFICE RECEPT AND J-BOX		20 A	1		680 VA	180 VA		1	20 A	RECEPTACLES - OFFICE	10	
11	U-052 SECURITY SYSTEM		20 A	1			860 VA	864 VA	1	20 A	S-204 D/T TIMING SYSTEM	12	
13	DRIVE THRU POS/ORDER ENTRY 2		20 A	1	1220 VA	1140 VA			1	20 A	R-009 FULL HEIGHT FREEZER	14	
15	BEVERAGE DISPENSER D/T		15 A	1		360 VA	2013 VA					16	
17	P-452 HOT WATER SYSTEM						2013 VA	2013 VA	2	30 A	P-452 HOT WATER SYSTEM	18	
19	P-452 HOT WATER SYSTEM		30 A	2	2013 VA	1080 VA			1	20 A	INTERIOR DIGITAL MENUBOARD	20	
21	C-107 RETHERMALIZER		20 A	1		180 VA	500 VA		1	20 A	E-107 FIRE SUPPRESSION	22	
23	E-272 HOOD FIRE SUP.		20 A	1			500 VA	180 VA	1	20 A	C-026 FRYER	24	
25	C-400 COOK TIMER		20 A	1	180 VA	0 VA			--	--	SHUNT TRIP BREAKER FOR DUAL FRYER	26	
27	EVO CABINET 1 (VLINE 1)					1248 VA	500 VA		1	20 A	OCB SWITCH	28	
29			15 A	2				1248 VA	1248 VA	2	15 A	EVO CABINET 2 (VLINE 1)	30
31	S-027 HEATED CABINET		20 A	1	180 VA	1248 VA			1	20 A		32	
33	S-027 HEATED CABINET		20 A	1		180 VA	0 VA		1	20 A	Spare	34	
35	REFRIGERATOR (VLINE 1)		15 A	1			960 VA	0 VA	1	20 A	Spare	36	
37	HOT WELL W/ GRILL		30 A	2	2309 VA	1664 VA			2	20 A	C-250 (VLINE 1) CHEES MELTER	38	
39						2309 VA	1664 VA					40	
41	C-250 (VLINE 2) CHEESE MELTER		20 A	2			1664 VA	2196 VA	1	30 A	C-203 (VLINE 1) CLAM	42	
43					1664 VA	2196 VA			1	30 A	C-203 (VLINE 2) CLAM	44	
45	DIGITAL SCALE (VLINE 1)		15 A	1		240 VA	240 VA		1	15 A	DIGITAL SCALE (VLINE 1)	46	
47	DRIVE THRU MONITORS		20 A	1			360 VA	960 VA	1	15 A	REFRIGERATOR (VLINE 2)	48	
49	EVO CABINET 1 (VLINE 2)		15 A	2	1248 VA	1248 VA			2	15 A	EVO CABINET 1 (VLINE 2)	50	
51						1248 VA	1248 VA					52	
53	DINING POS ENTRY 2 & CARD READERS		20 A	1			900 VA	360 VA	1	20 A	SAFE W/TOUCHSCREEN CONTROLS	54	
Total Load:					20250 VA	13750 VA	17486 VA						
Total Amps:					174 A	115 A	151 A						
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Kitchen		1500 VA	100.00%	1500 VA									
Power		45462 VA	100.00%	45462 VA	Total Connected Load:	51486 VA							
Receptacle		4524 VA	100.00%	4524 VA	Total Estimated Demand:	51486 VA							
					Total Connected Current:	143 A							
					Total Estimated Demand Current:	143 A							
					System Voltage:	120/208 Wye							

Notes:

Branch 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: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Wire Size	Trip	Poles	A	B	C	Poles	Trip	Wire Size	Circuit Description	CKT
1	DINING LTS		20 A	1	758 VA	0 VA		1	20 A		SPARE	2
3	EXTERIOR SCONCE/PATIO LTS		20 A	1		240 VA	0 VA		1	20 A	SPARE	4
5	KITCHEN/BOH/RESTROOM LTS		20 A	1			700 VA	2000 VA	1	20 A	EXTERIOR SIGNAGE	6
7	SPARE		20 A	1	0 VA	154 VA			1	20 A	EMERGENCY LTS INT/EXT. EXIT SIGNS	8
9	LTG-SITE-MENU CLEARANCE & CANOPY		20 A	1		1200 VA	500 VA		1	20 A	TBCCB	10
11	EXTERIOR CANOPY LTS - ENTRANCE		20 A	1			2000 VA	900 VA	1	20 A	LTG - SHOW WINDOW	12
13	LTG - SHOW WINDOW		20 A	1	600 VA	500 VA			1	20 A	INTERIOR COVE LIGHTS	14
15	EXTERIOR CANOPY LTS		20 A	1		1500 VA	1000 VA		1	20 A	DIGITAL MENU SECURITY LTS	16
17	LTG - COOLER & FREEZER		20 A	1			800 VA	2000 VA	1	20 A	CANOPY LTS - DRIVE THRU	18
19	SPARE		20 A	1	0 VA	0 VA			1	20 A	SPARE	20
21	CANOPY LTS - ENTRANCE		20 A	1		1500 VA	579 VA		1	20 A	SITE LIGHTING	22
23	SPARE		20 A	1			0 VA	579 VA	1	20 A	SITE LIGHTING	24
25	LTG-SITE-PYLON SIGN		20 A	1	1200 VA	579 VA			1	20 A	SITE LIGHTING	26
27	LTG-SITE-S240 OCB & SPEAKER POST		20 A	1		130 VA	0 VA		1	20 A	SPARE	28
29	EF-1		20 A	1			1120 VA	660 VA	1	20 A	EF-2	30
31	SPARE		20 A	1	0 VA	0 VA			1	20 A	SPARE	32
33	SPARE		20 A	1		0 VA	0 VA		1	20 A	SPARE	34
35	SPARE		20 A	1		0 VA	0 VA		1	20 A	SPARE	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:					3791 VA	6649 VA	10759 VA					
Total Amps:					32 A	59 A	93 A					
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals							
HVAC		1780 VA	100.00%	1780 VA								
Lighting		14875 VA	125.00%	18594 VA	Total Connected Load:	21199 VA						
Other		14 VA	100.00%	14 VA	Total Estimated Demand:	24918 VA						
Power		2530 VA	100.00%	2530 VA	Total Connected Current:	59 A						
Receptacle		1500 VA	100.00%	1500 VA	Total Estimated Demand Current:	69 A						
Spare		500 VA	100.00%	500 VA	System Voltage:	120/208 Wye						

Notes:

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 TENANTS 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 NEGLIGENCE 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) 3/4" 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 THROUGH 6.3.

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

Taco Bell

NORTHLINER ROAD
SOUTHGATE, MI 48195

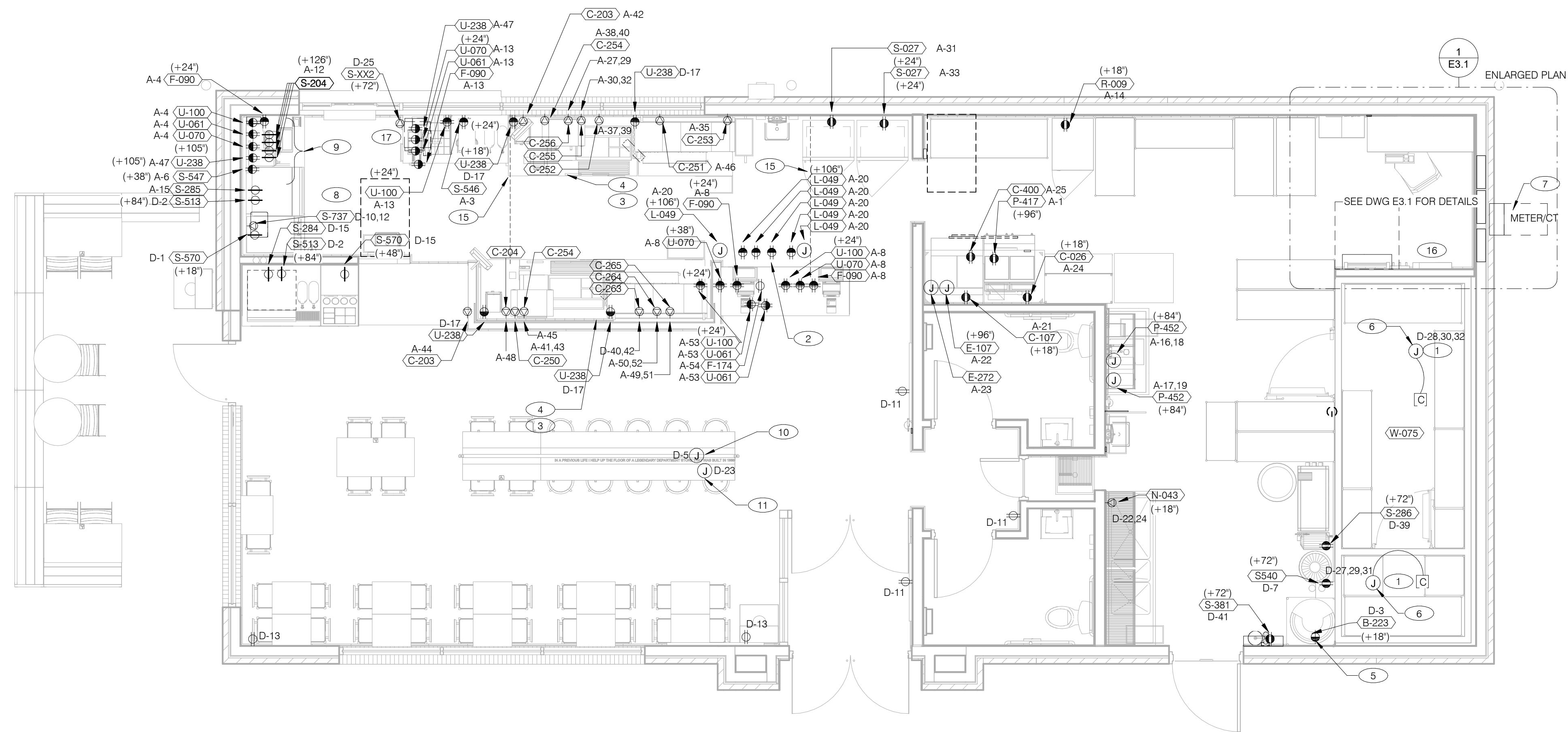


T40M-O
OPEN KITCHEN
MODERN EXPLORER

ELECTRICAL SCHEDULES

E2.1

PLOT DATE: 8/7/2018 9:11:58 AM



NOTE

- IN LIEU OF GFCI OUTLETS, CONTRACTOR MAY USE GFCI CIRCUIT BREAKERS TO CUT COSTS.
- REFER TO POWER AND COMMUNICATION DIMENSIONS PLAN

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STORE NUMBER: 2017088.20

POWER PLAN 1/4" = 1'-0" **A**

- 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(B)(3) NEC 2011, ALL 15 AND 20A, 120V RECEPTACLES IN COMMERCIAL KITCHENS ARE REQUIRED TO BE GFCI PROTECTED. THIS INCLUDES ISOLATED GROUND RECEPTACLES.
- 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.

- 1 REFER TO ROOF PLAN.
- 2 INSTALL IN CONDUIT RUNNING ON SURFACE OF KITCHEN SIDE OF CABINERY REAR WALL.
- 3 THE EC SHALL BE RESPONSIBLE FOR PROVIDING RECEPTACLES FOR THE EQUIPMENT IN THE V-LINE. EC SHALL COORDINATE REQUIREMENTS WITH EQUIPMENT MANUFACTURER. CONFIRM AND COORDINATE ALL MOUNTING HEIGHTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- 4 EC SHALL COORDINATE WITH V-LINE MANUFACTURER FOR RECEPTACLE MOUNTING HEIGHT AND SPECIFICATIONS.
- 5 LOCATED INSIDE SHELL OF HEATER.
- 6 INSTALL CONTROL CABLE FROM FREEZER/COOLER FAN COIL TO ROOF MOUNTED CONDENSOR.
- 7 LOCATE ELECTRICAL SERVICE EQUIPMENT PER GUIDELINES ON ARCHITECTURAL AND CIVIL DRAWINGS.
- 8 PROVIDE BOOST TRANSFORMER (208V, 1-PHASE IN, 240V, 1-PHASE OUT) FOR FROZEN BEVERAGE DISPENSER IF APPLICABLE. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT REQUIREMENTS.
- 9 ABOVE CEILING FOR WALL MOUNTED HME. SEE 5/E3.1.
- 10 J-BOX FOR POWER AT HUB TABLE. CONDUIT SHALL BE ROUTED UNDERGROUND WITH 3/4" C. W/ 2 # 12 AND 1#12 GND. STUB CONDUIT UP IN FLOOR TO END OF HUB TABLE. PROVIDE AND INSTALL FLEX CABLE WIRING THROUGH STUB-UP CONDUIT INTO TUBING CHASE AT END OF TABLE. MAKE FINAL CONNECTIONS TO JUNCTION BOXES AND/OR RECEPTACLES MOUNTED ON TABLE. COORDINATE LIGHTING INSTALLATION REQUIREMENTS WITH CONDUIT ROUTING. REFER TO E4.0 FOR LIGHTING INFORMATION. FIELD VERIFY AND COORDINATE WITH HUB TABLE MANUFACTURER FOR EXACT REQUIREMENTS AND LOCATIONS PRIOR TO INSTALLATION.
- 11 PROVIDE POWER AND DATA JUNCTIONS BOXES IN SLAB WITH COVER PLATE FOR FUTURE ORDERING KIOSK. PROVIDE ALL NECESSARY TRENCHING AND CONDUITS. VERIFY EXACT QUANTITY AND LOCATION WITH EQUIPMENT INSTALLER AND TACO BELL CONSTRUCTION MANAGER.
- 12 PROVIDE 1/2" C WITH 2#14 FOR HEATER FOR CONTROL WIRING (PATIO DESIGN OPTION).
- 13 NOT USED.
- 14 NOT USED.
- 15 CONTRACTOR TO RUN POWER AND DATA CONDUITS FOR V LINE AND FRONT POS COUNTER UNDER SLAB. CONFIRM ROUTE WITH TACO BELL REPRESENTATIVE PRIOR TO ROUGH-IN.
- 16 LOCATION OF TBCCB COMBINED CONTROL BOX. COORDINATE EXACT LOCATION IN FIELD. CONSIDER OPERATOR'S NEED TO ACCESS SWITCHES ON THE FRONT OF THE CONTROL BOX AND BUILT IN OCCUPANCY SENSOR FOR MANAGER'S OFFICE. CIRCUIT TO B-10.
- 17 REFER TO DETAIL 7/E3.1.

GENERAL NOTES - ELECTRICAL POWER PLAN NTS **C**

KEY NOTES - ELECTRICAL POWER PLAN NTS **B**

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ELECTRICAL POWER PLAN

E3.0

PLOT DATE: 8/7/2018 9:12:03 AM

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.

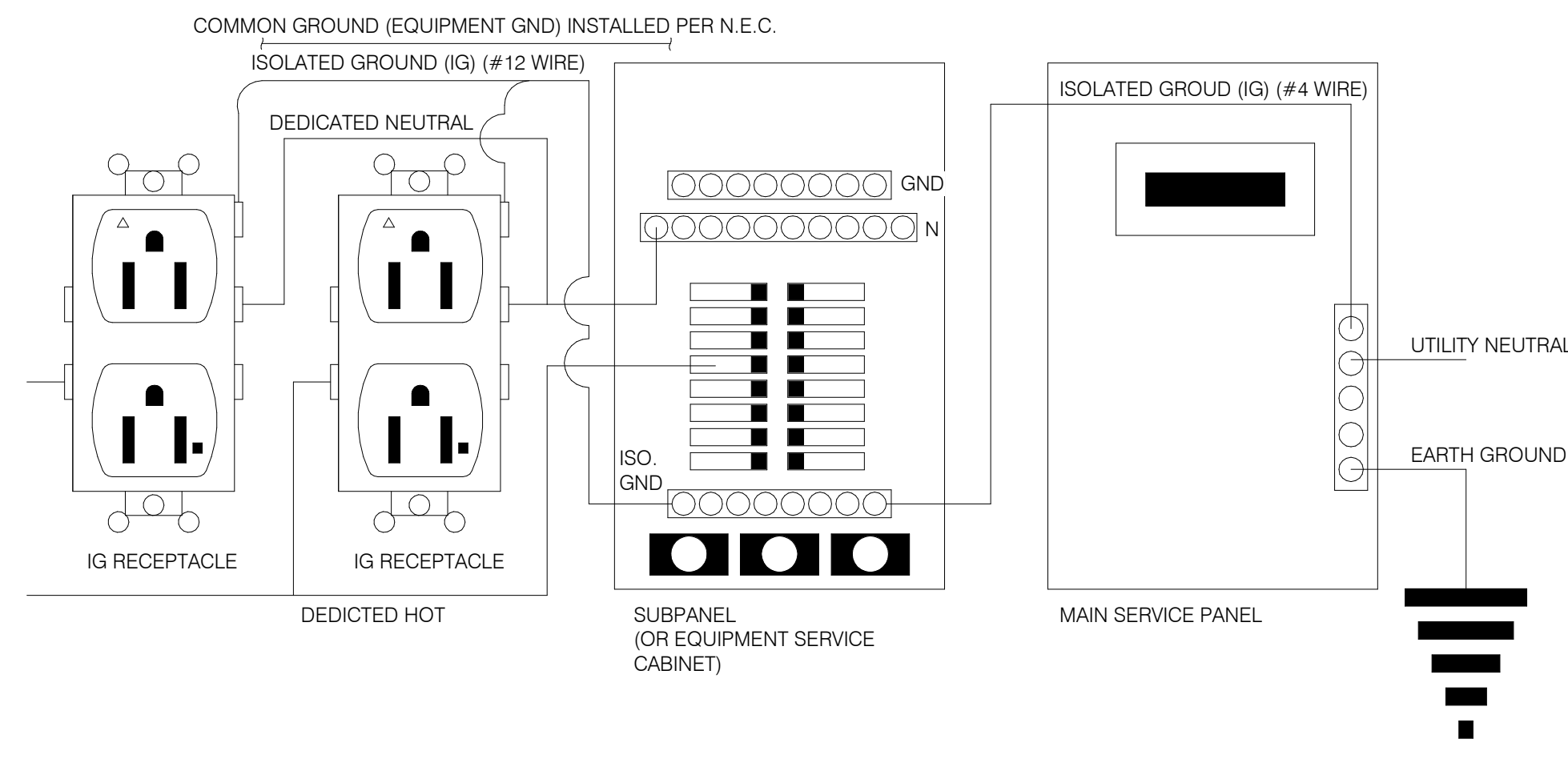
THE GROUND MUST EXHIBIT THE LOWEST POSSIBLE IMPEDANCE TO MINIMIZE VOLTAGE TRANSIENTS AND NOISE.

BE SURE TO:

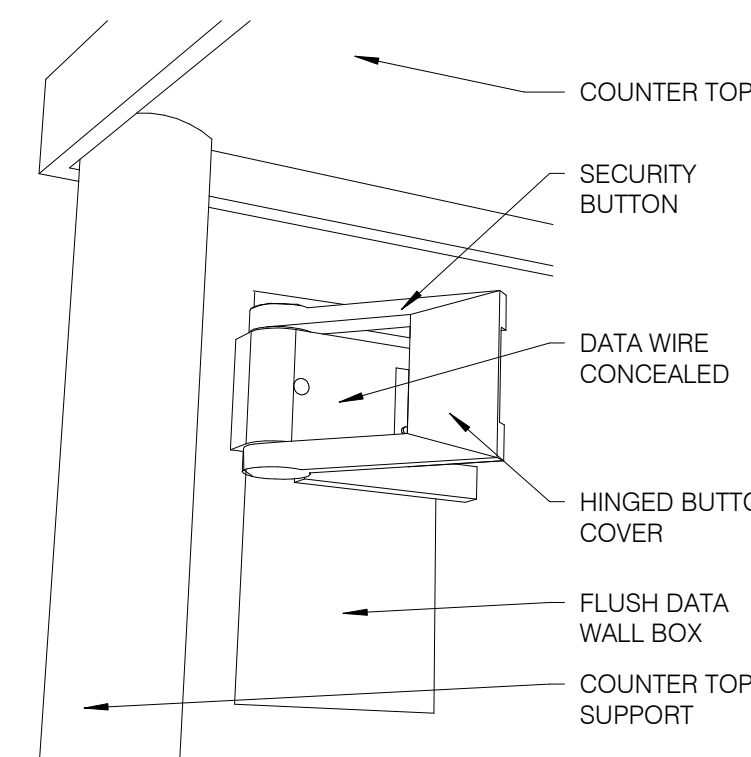
- * USE AN INSULATED CONDUCTOR FOR THE ISOLATED GROUND WIRE.
- * RUN THE ISOLATED GROUND WIRE THROUGH THE SAME CONDUIT AS THE HOT AND NEUTRAL WIRES.
- * INSTALL ONLY ISOLATED GROUND (IG) TYPE RECEPTACLES.
- * CONNECT THE ISOLATED GROUND WIRE TO BUILDING GROUND ONLY AT THE MAIN SERVICE PANEL.
- * VERIFY 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.

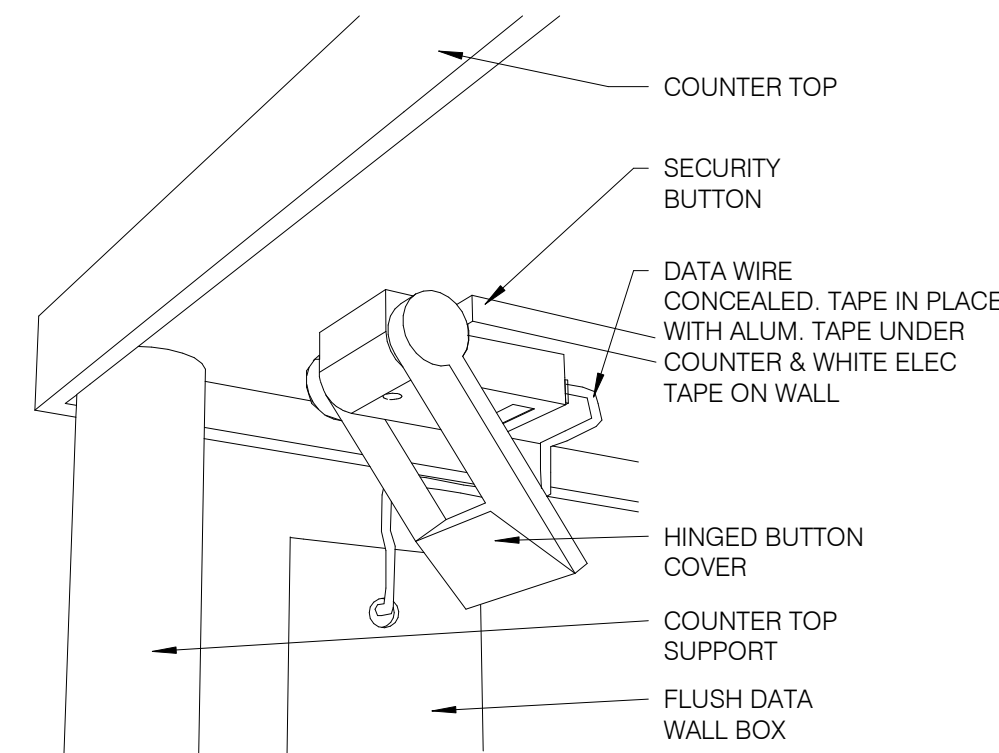
DEDICATED CIRCUITS: DEDICATED CIRCUITS REQUIRE A DEDICATED HOT AND A DEDICATED NEUTRAL THAT ARE NOT SHARED WITH ANY OTHER CIRCUITS. IG RECEPTACLES MUST BE "PHASE ALIGNED" WITH THE "B" PHASE OF BUILDING SUBPANEL "A".



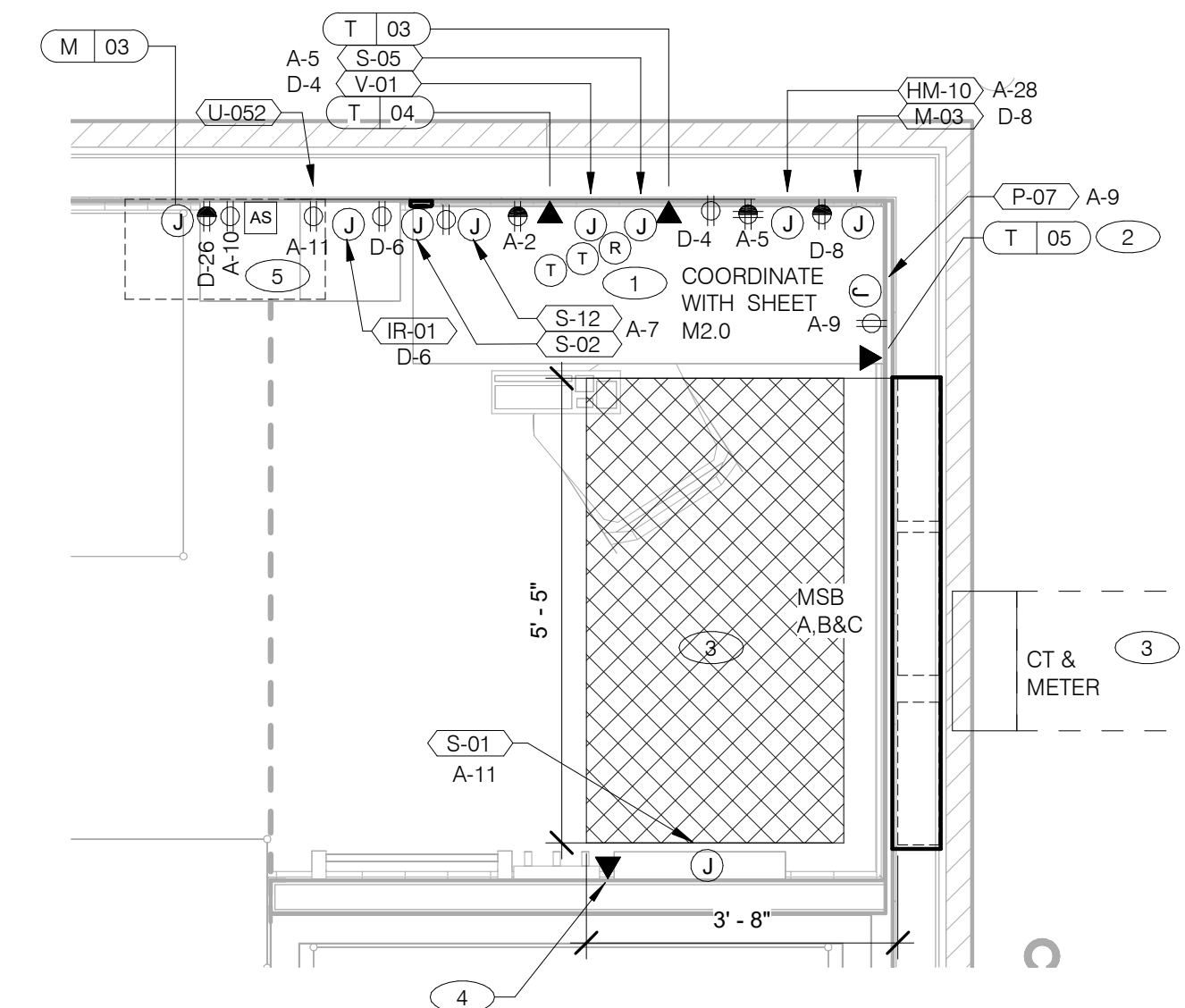
P.O.S. ISOLATED GROUND SYSTEM NTS **6**



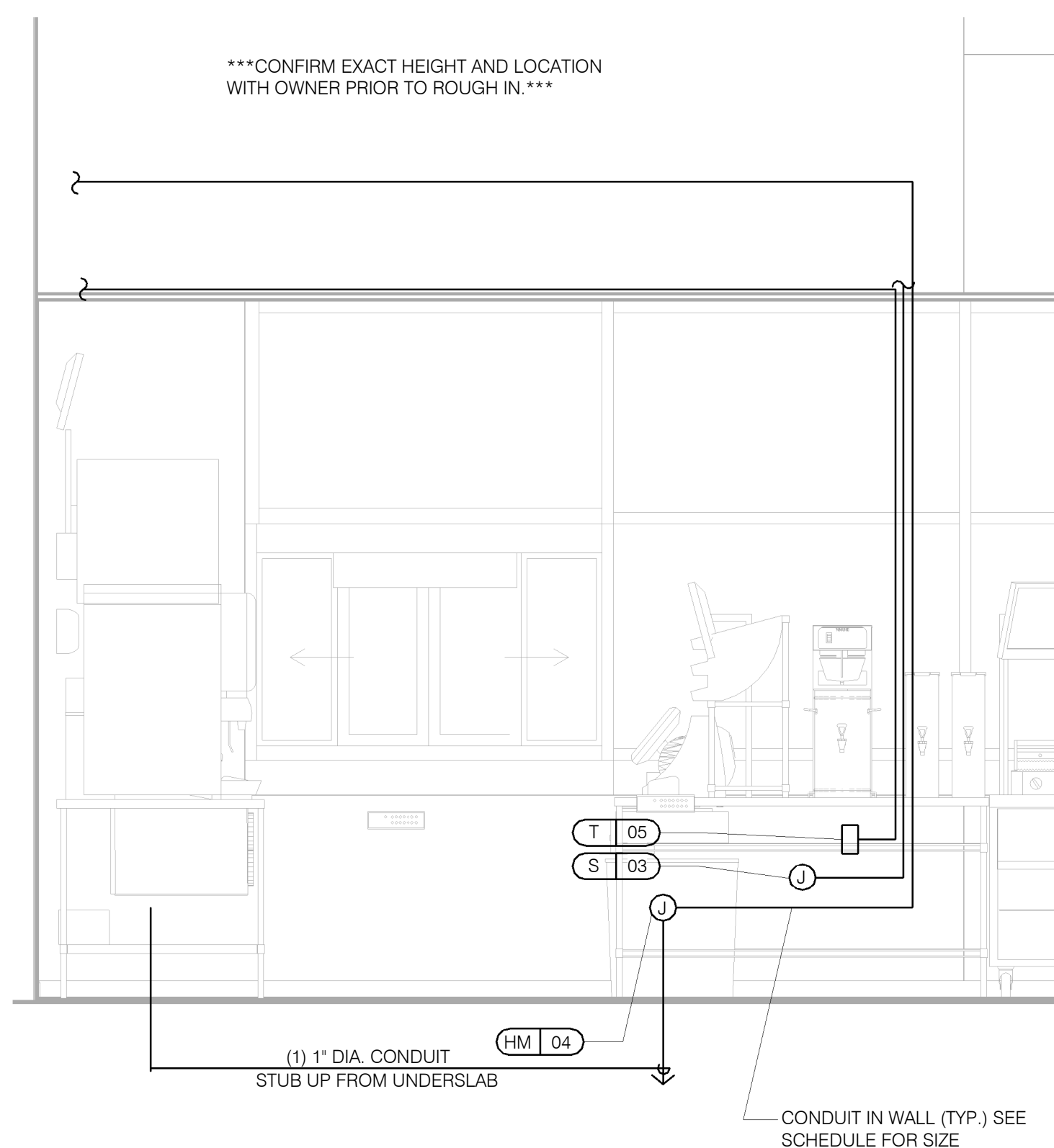
SECURITY BUTTON ON WALL NTS **3**



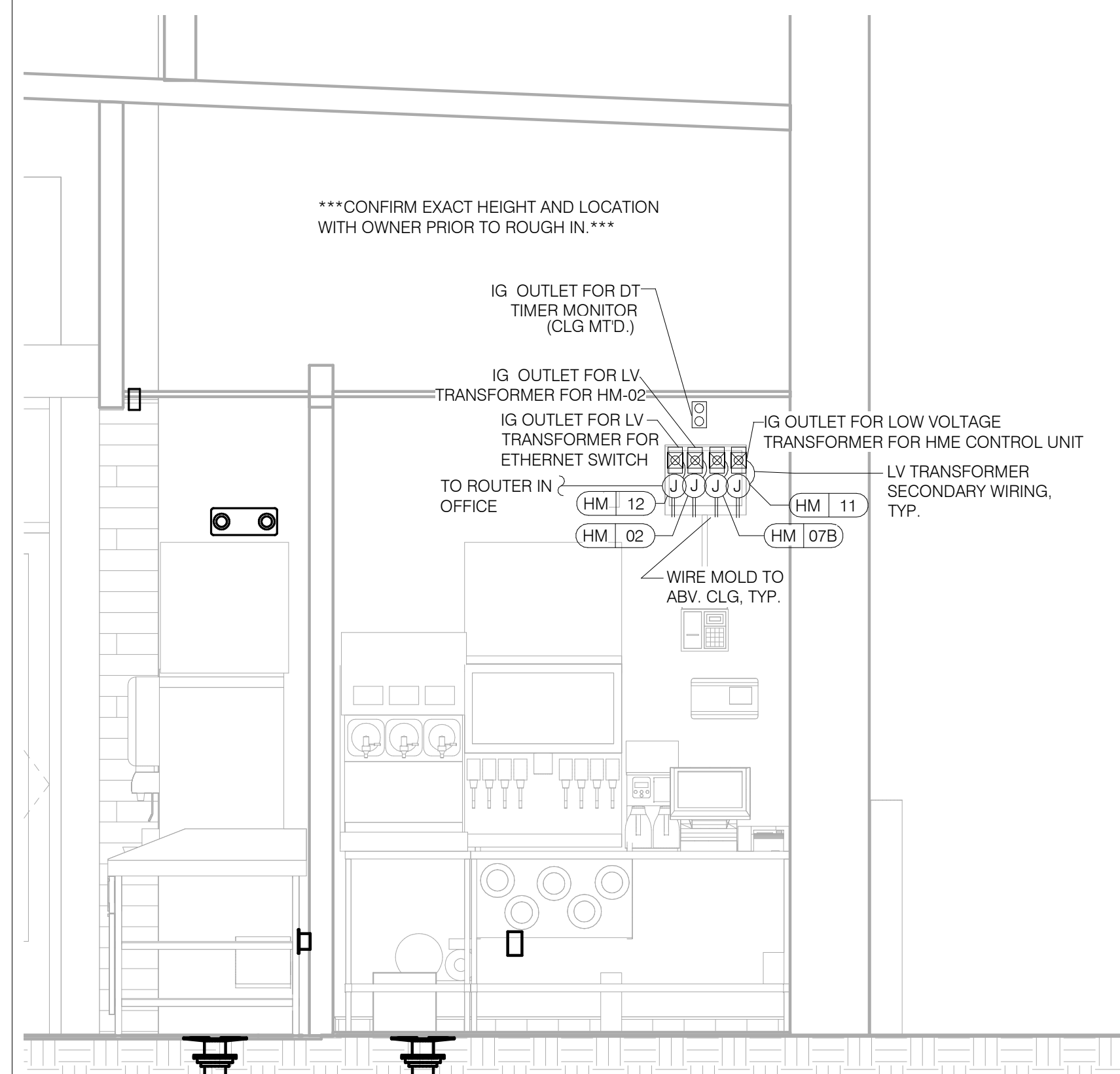
SECURITY BUTTON UNDER COUNTER NTS **4**



ENLARGED POWER AND COMMUNICATIONS PLAN (OFFICE) 1/2" = 1'-0" **1**



ENLARGED INTERIOR ELEVATION (D/T WINDOW) NTS **7**



ENLARGED INTERIOR ELEVATION NTS **5**

- 1 THERMOSTATS CONTROLS.
- 2 PHONE JACK FOR MODEM.
- 3 ELECTRICAL WORKING CLEARANCE
- 4 DATA JACK FOR TECH-IN-BOX WITH 2 PORTS.
- 5 ELECTRICAL AND DATA DEVICES SHOWN OFFSET ON PLANS FOR CLARITY AND COORDINATION PURPOSES. COORDINATE WITH TACO BELL CONSTRUCTION MANAGER FOR FINAL LOCATIONS PRIOR TO INSTALLATION.

KEY NOTES - ELECTRICAL ENLARGED DETAILS NTS **2**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312529/445209
 STORE NUMBER: 2017088.20

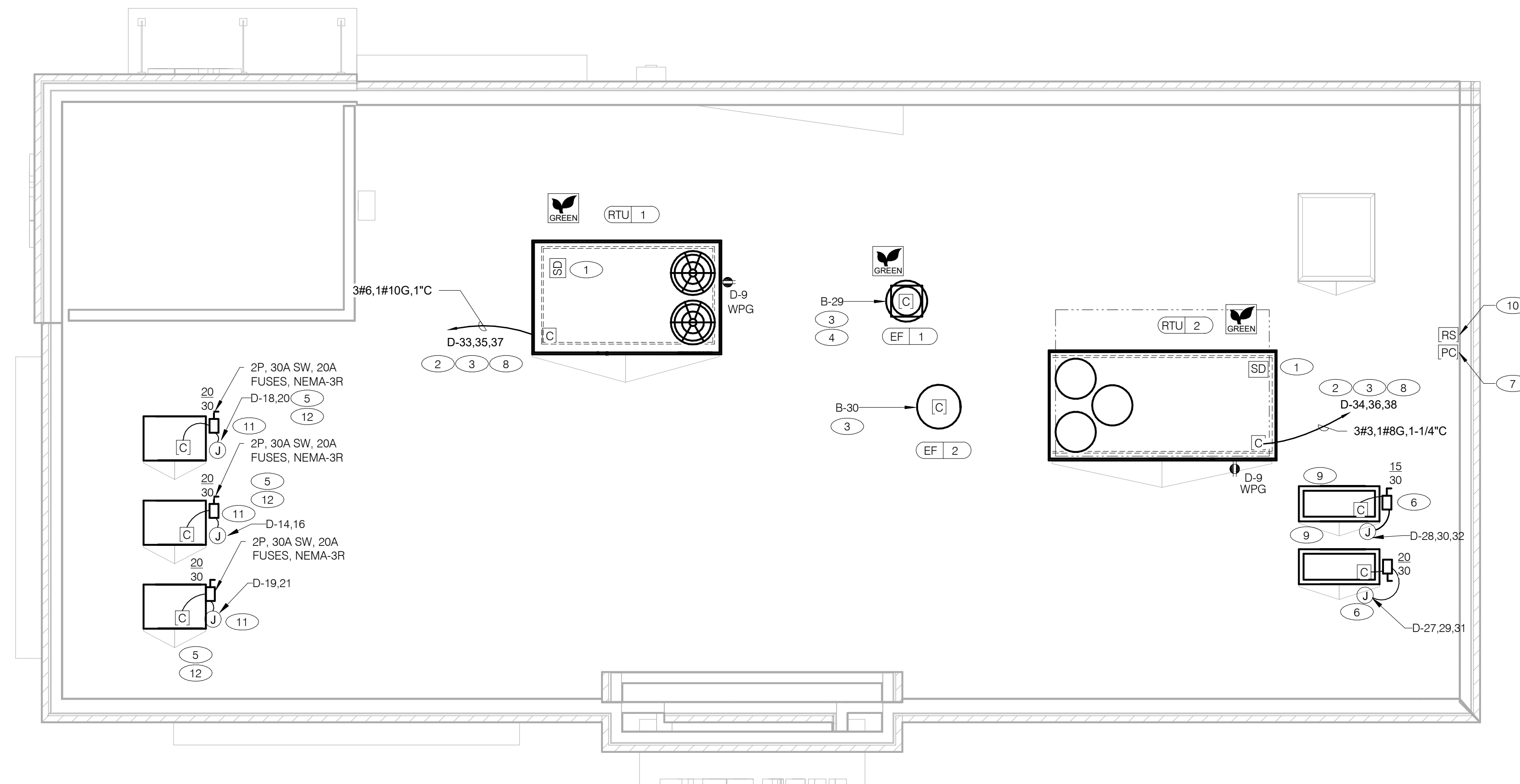
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TACO BELL
 T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

ENLARGED POWER PLAN AND DETAILS

E3.1

PLOT DATE: 8/7/2018 9:12:08 AM



POWER ROOF PLAN 1/4" = 1'-0" **A**

- | | |
|--|---|
| <p>GENERAL NOTES - ELECTRICAL POWER ROOF PLAN NTS C</p> <ul style="list-style-type: none"> 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 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) ALLOWED WHERE ACCEPTABLE BY CODE. CABLE SHALL BE ROUTED CONCEALED, AND SHALL BE ACCESSIBLE. CABLE SHALL CONTAIN GREEN CU CODE SIZE GROUND CONDUCTOR. | <p>KEY NOTES - ELECTRICAL POWER ROOF PLAN NTS B</p> <ul style="list-style-type: none"> 1 SMOKE DETECTOR PROVIDED WITH UNIT. REFER TO MECHANICAL DRAWINGS. 2 SPECIFIED RTU IS SUPPLIED WITH THRU THE BASE ELECTRICAL CONNECTIONS AND FACTORY INSTALLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURES AND ACCESS THRU SWINGING DOOR. 3 POWER AND CONTROL ENTRY FROM BOTTOM OF UNIT. 4 CONNECT TO EF-1 RELAY. REF E6.0 THROUGH E6.3. 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 MOUNT PHOTOCELL ON THE NORTH SIDE OF THE BUILDING 14.0' ABOVE GRADE. CONNECT TO LIGHTING CONTROL PANEL AND RELAYS. SEE E6.0 AND E6.1. 8 RTU'S SHALL BE PROVIDED WITH BUILT-IN DISCONNECT, SINGLE POINT WIRING AND CONVENIENCE OUTLET. 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 MOUNTED NEXT TO PHOTOCELL 14.0' ABOVE GRADE. 11 PIPE HOOD FOR ICE MACHINE CONDENSERS. SEE ARCHITECTURAL ROOF PLAN. 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. |
|--|---|

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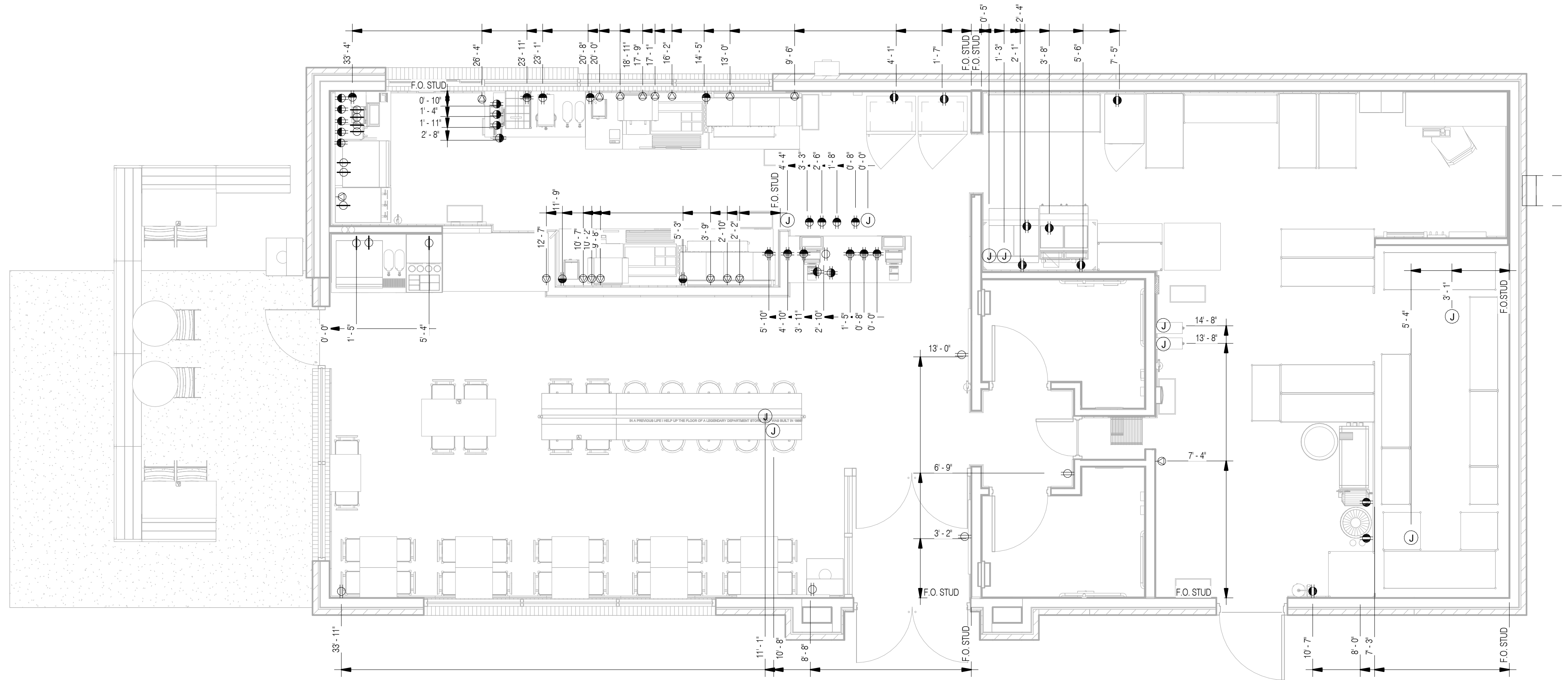
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TACO BELL
 T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

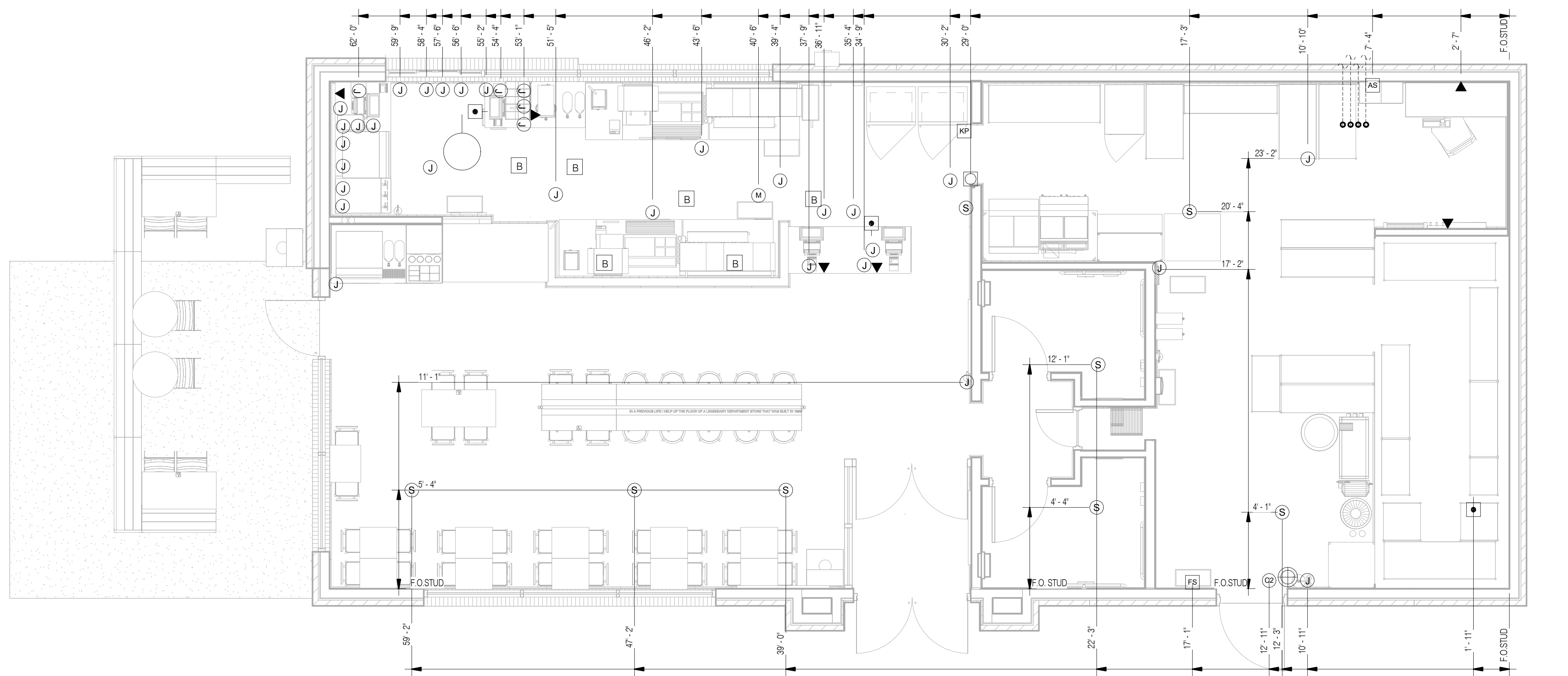
ELECTRICAL POWER ROOF PLAN

E3.2

PLOT DATE: 8/7/2018 9:12:09 AM



POWER DIMENSIONS PLAN 1/4" = 1'-0" **A**



COMMUNICATION DIMENSIONS PLAN 1/4" = 1'-0" **B**

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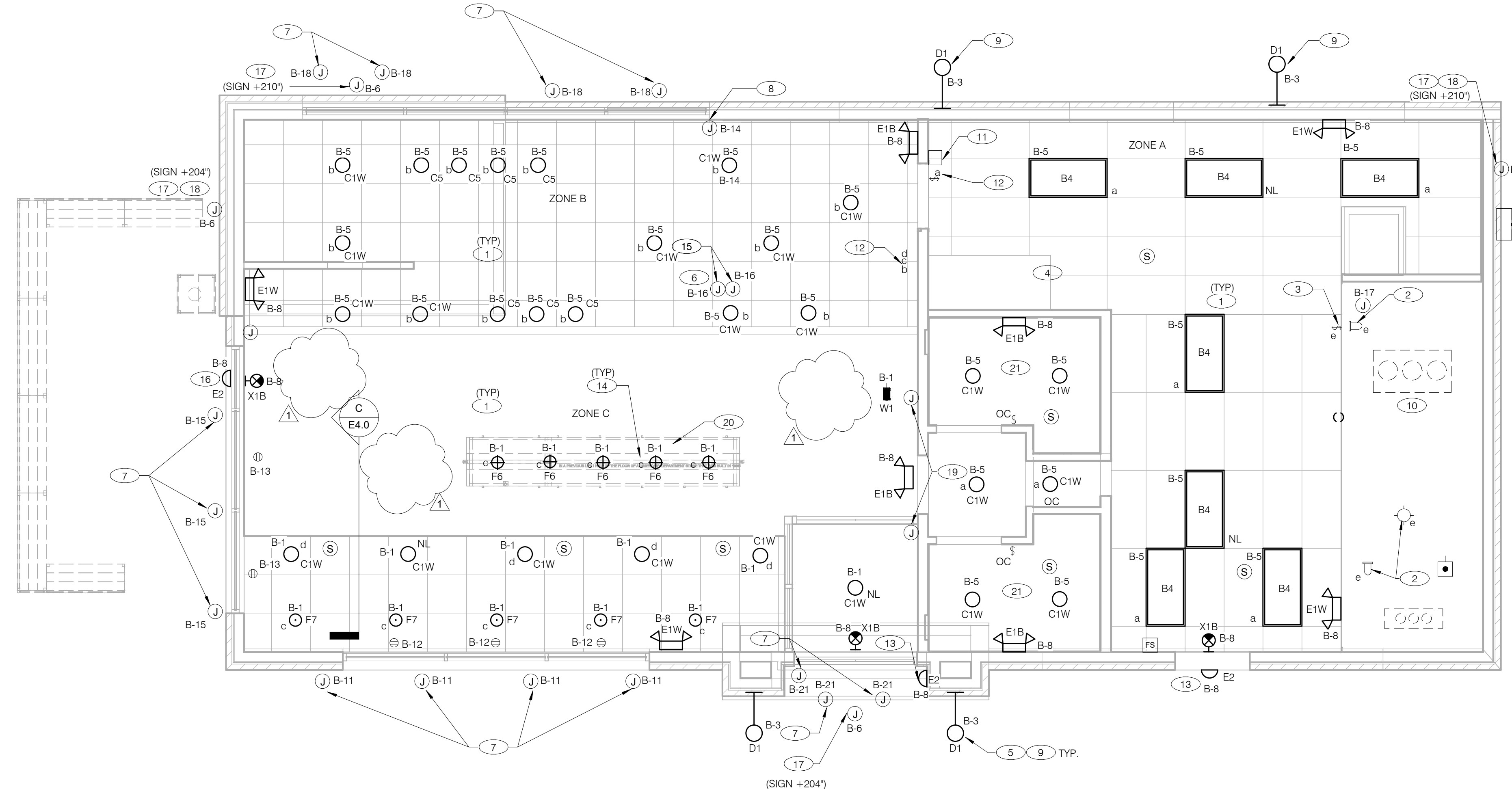
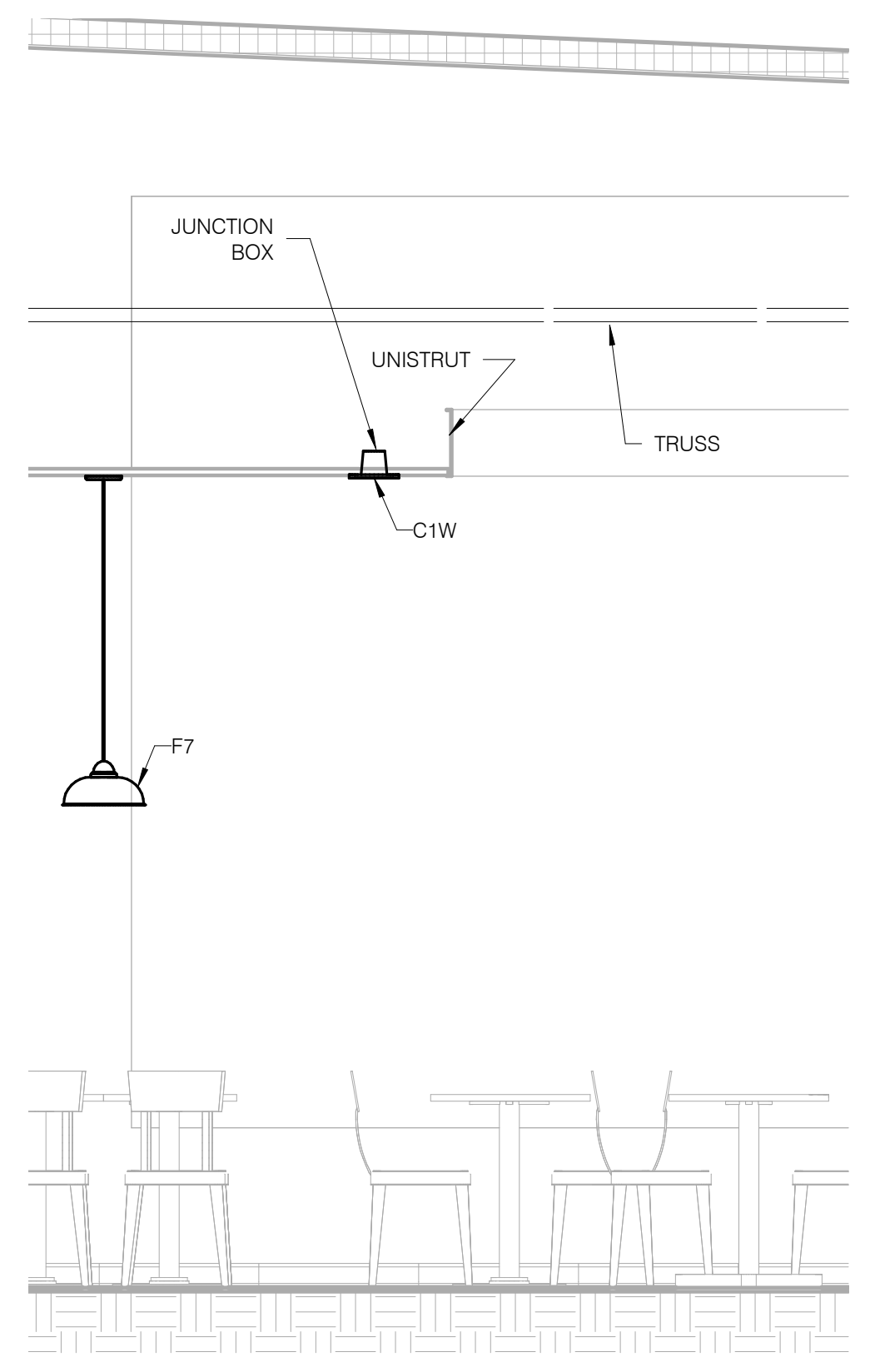
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ELECTRICAL DIMENSIONS PLAN

E3.3



- 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 300-7(a).
 - E. ALL INTERIOR LIGHTING CIRCUITS TO BE WIRED THROUGH TBCCB. SEE E6.0 THROUGH E6.3.
 - 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 THRU E6.3 FOR ADDITIONAL DETAILS.

1	08.07.18	BULLETIN 1
	08.06.18	ISSUED FOR CONSTRUCTION
	06.20.18	ISSUED FOR BID
	02.16.18	ISSUED FOR PERMIT

PENDANT MOUNTING DETAIL NTS

NO.	QTY	LOCATION	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP #/TYPE	BALLAST TYPE	ELECTRICAL DATA	REMARKS
A1/A4	10		LSI INDUSTRIES	XALM-FT-LED-HO-40-IL	LED AREA LIGHTS FORWARD THROW, BRONZE FINISH		LED		120 V/1-193 VA	
B4	7	BOH	MAXLITE	MLFP-24EP-4841	2X4 LED TROFFER	RECESSED GRID	LED	NA	120 V/1-45 VA	
C1W	22	FOH	MAXLITE	B6IC-AT-W-LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING	RECESSED	LED		120 V/1-14 VA	
C5	7	OPEN KITCHEN AREA/ FOH	MAXLITE	RR6C20U30Z/RAF6	LED DOWNLIGHT 20W 6" RECESSED 30K 80CRI WHITE TRIM	RECESSED	LED	NA	120 V/1-20 VA	
D1	4	EXTERIOR SCOFF	TROY	B2772	17"x14" WALL MOUNT SCOFF, OLD SILVER FINISH, MEDIUM BASE SOCKET, 100 WATT MAX	WALL, CENTER OF BRACKET @ 14'-0" A.F.F.	-	NA	120 V/1-60 VA	ALIGN BOTTOM OF FIXTURE'S MOUNTING WITH CHANGE IN EIFS THICKNESS
E1B	4	FOH	ELITE	ELM-809-B	EMERGENCY LIGHT FROG EYE - BLACK	WALL, TOP @ 9'-4" U.O.N.	-	EM	120 V/1-12 VA	
E1W	4	FOH	ELITE	ELM-809-W	EMERGENCY LIGHT FROG EYE - WHITE	WALL, TOP @ 9'-4" U.O.N.	-	EM	120 V/1-12 VA	
E2	3	EXTERIOR	LIGHTALARMS	CAM-SD-DB-CW	CAMRAY LED EM WALL MNT, DRK BRNZ, CLD WEATHER	UNIVERSAL	-	EM	120 V/1-16 VA	
F6	5	HUB TABLE	KICHLER	43852OZ	9.75" GLASS PENDANT AVERY WITH MED BASE SOCKET RATED 100W MAX OLDE BRONZE FINISH	PENDANT, VARIES	1/LED AAMSCO LED-6W-ST64HYBRID-DIM	NA	120 V/1-100 VA	PLACEHOLDER INCLUDES LAMP
F7	5		HL-LITES	H24212-96-CB15-20WLB-60P	12" GALVANIZED PENDANT WITH BLACK CORD AND CANOPY MED BASE SOCKET	PENDANT, VARIES	1/LED 10A19D0027K	NA	120 V/1-20 VA	
W1	1	172	ConTech Lighting	CTL84C2M27D-P-FA-84-B-LF16SL 60MM	Stealth LED Wall Lighter Track Fixture	PENDANT, VARIES	LED		Power Connector 120 V/1-14 VA	MOUNT IN MIDDLE OF CEILING TILE. AIM FIXTURE TO CENTER ON GRAPHIC WALL AT BOOTH
X1B	3	FOH/BOH	LIGHTALARMS	GRANNRB	LED UNIVERSAL MNTG THERMOPLASTIC EXIT, RED LETTERS, BLACK HSN	UNIVERSAL	-LED	EM	120 V/1-3 VA	

- ELECTRICAL LIGHTING PLAN** 1/4" = 1'-0" **A**
- 1 UTILIZE TIME-CLOCK CONTROLS FOR DINING ROOM CIRCUITS. REFER TO DRAWINGS E6.0 AND E6.1.
 - 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 SHEETS E6.0-E6.3.
 - 5 COORD. J-BOX LOCATION WITH WOOD FRAMING SO IT REMAINS CONCEALED BEHIND FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DWGS.
 - 6 OUTLET FOR MENU BOARD: SEE SHEET E3.0. VERIFY POINT OF CONNECTION. 10 LIGHT PANELS WIRED IN SERIES. G.C. TO MAKE FINAL CONNECTION.
 - 7 J-BOX FOR EVERBRITE LIGHTING SYSTEM IN CANOPY. PROVIDE DISCONNECTING MEANS FOR LIGHTING. COORDINATE WITH CANOPY MANUFACTURER FOR ADDITIONAL DETAILS.
 - 8 J-BOX FOR LIGHT TROUGH AGAINST WINDOW. VERIFY POINT OF CONNECTION. WIRE VIA EXTERIOR LIGHTING CONTRACTOR.
 - 9 REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS 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 PROVIDE LIGHT SWITCHES FOR CONTROL OF LIGHT FIXTURES AS SHOWN. COORDINATE WITH LIGHTING MANUFACTURER FOR TYPE OF SWITCH.
 - 13 MOUNT "E2" AT 8'-0" A.F.G. TO CENTER OF FIXTURE. REFER TO ARCHITECTURAL ELEVATIONS.
 - 14 SUBSCRIPT "x" CORRESPONDS TO LIGHTING CONTROL SWITCH.
 - 15 J-BOX FOR SECURITY (U-052) AND INTERIOR MENU BOARD (L-XX1) RESPECTIVELY.
 - 16 MOUNT "E2" AT 8'-6" A.F.G. TO CENTER OF FIXTURE. REFER TO ARCHITECTURAL ELEVATIONS.
 - 17 COORDINATE LOCATION OF J-BOX WITH SIGN VENDOR. PROVIDE DISCONNECTING MEANS AS REQUIRED. SEE SCOPE OF WORK.
 - 18 COORDINATE LOCATION OF J-BOX WITH TOWER VENDOR. SEE SCOPE OF WORK.
 - 19 PROVIDE J-BOX TO END OF UNISTRUT FOR ROUTING OF LIGHTING CABLES TO PENDANT LIGHTING FIXTURES. SEE DETAIL C ON E4.0 FOR ADDITIONAL INFORMATION.
 - 20 F6 FIXTURES TO BE MOUNTED FROM HUB TABLE CROSS BAR BY ELECTRICAL CONTRACTOR. COORDINATE PRE-DRILLED HOLES AND WIRING WITH FURNITURE VENDOR. FIXTURES TO BE HUNG AT STAGGERED LENGTHS DOWN FROM THE CROSS BAR. COORDINATE LENGTH WITH TACO BELL PROJECT MANAGER.
 - 21 CIRCUIT RESTROOM LIGHTS AND OCCUPANCY SENSOR SWITCH AHEAD OF LIGHTING CONTROL BOX.

CONTRACT DATE: XX.XX.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

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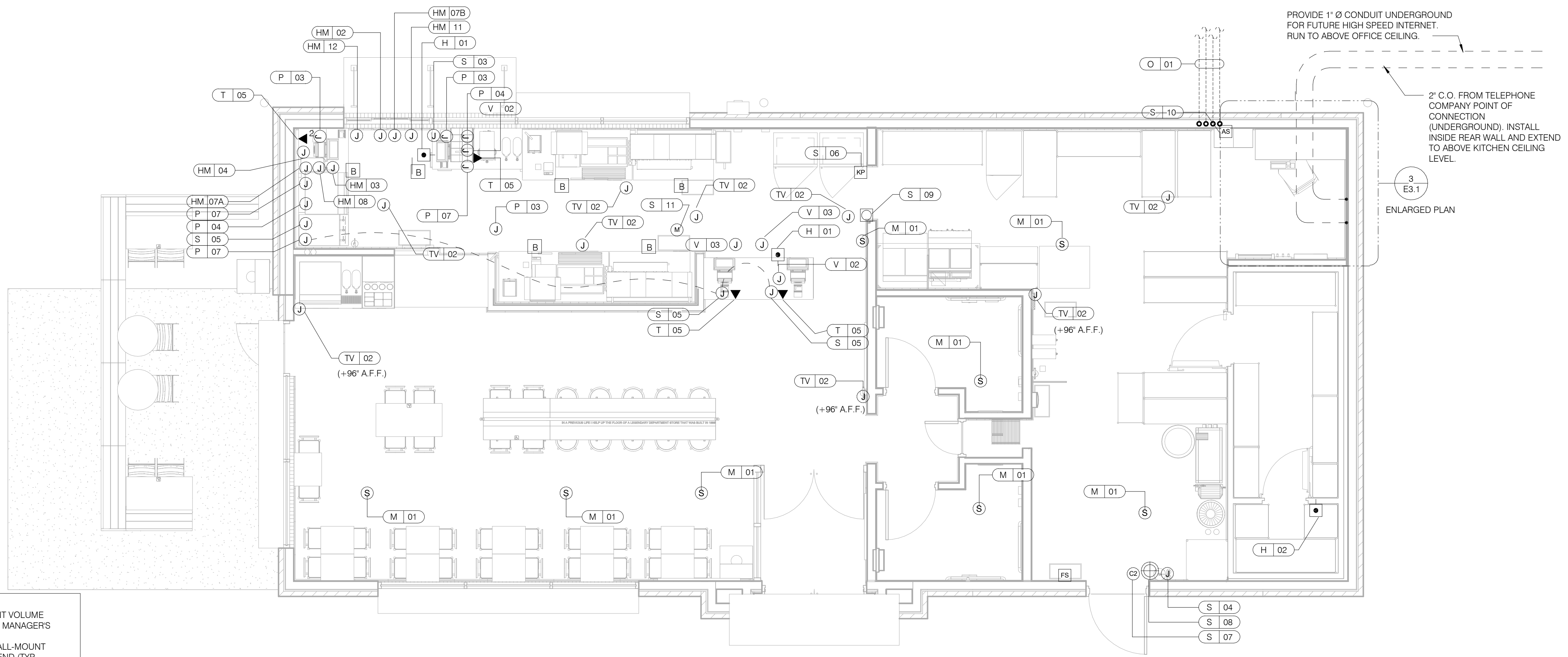
TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

LIGHTING PLAN AND DETAILS

E4.0

PLOT DATE: 8/8/2018 1:57:59 PM

KEY NOTES - ELECTRICAL LIGHTING PLAN AND SCHEDULE NTS **B**



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**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: XX.XX.18
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TACO BELL
 T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

COMMUNICATIONS PLAN

E5.0

PLOT DATE: 8/7/2018 9:12:19 AM

COMMUNICATIONS LEGEND NTS **C**

	HOLD-UP BUTTON (MOUNT 2-1/2" BEHIND COUNTER EDGE)		DOOR CONTACT (LINKED TO AUDIO / VISUAL ALARM)
	MUSIC SYSTEM SPEAKERS		"SOUND ALERT" DEVICE
	SECURITY STROBE		KEYPAD (MTD AT 48" A.F.F.)
	J-BOX		ALARM SIREN ABOVE CLG
	2" x 4" J-BOX W/ DATA PORTS		BUMP PAD (MOUNT AT FRONT COUNTER)
	MOTION DETECTOR		HOOD FIRE SUPPRESSION
	OCCUPANCY SENSOR, CEILING MOUNTED. SEE DETAILS 1 & 2 / E7.0		USB OUTLET STATION

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.

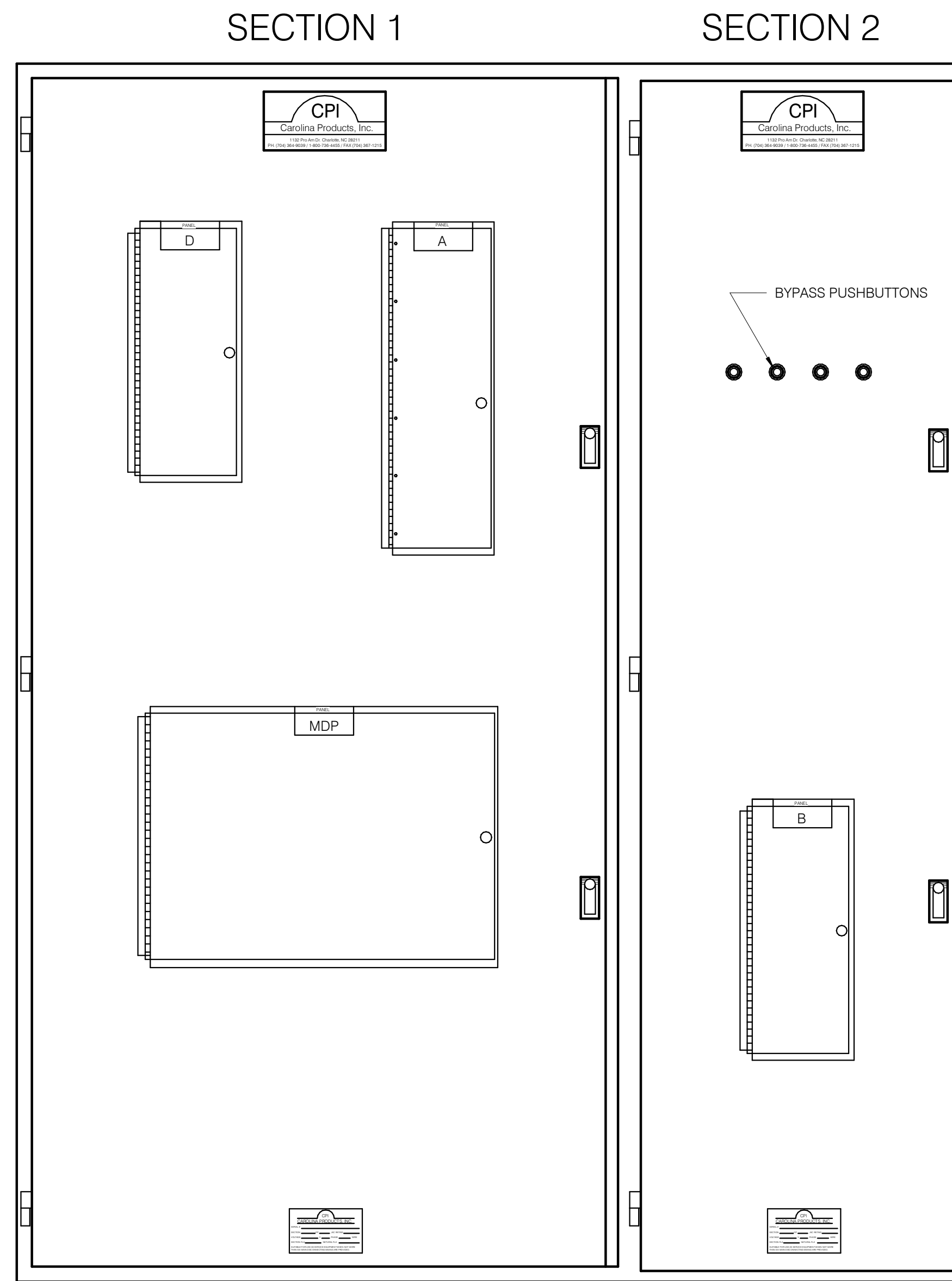
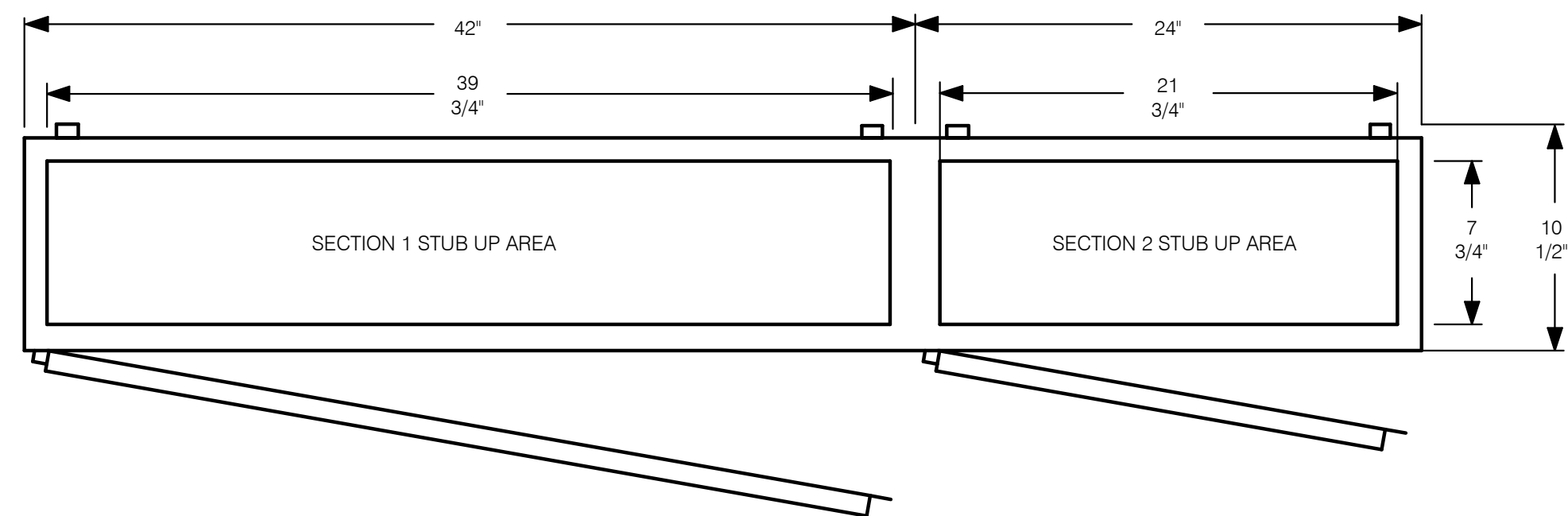
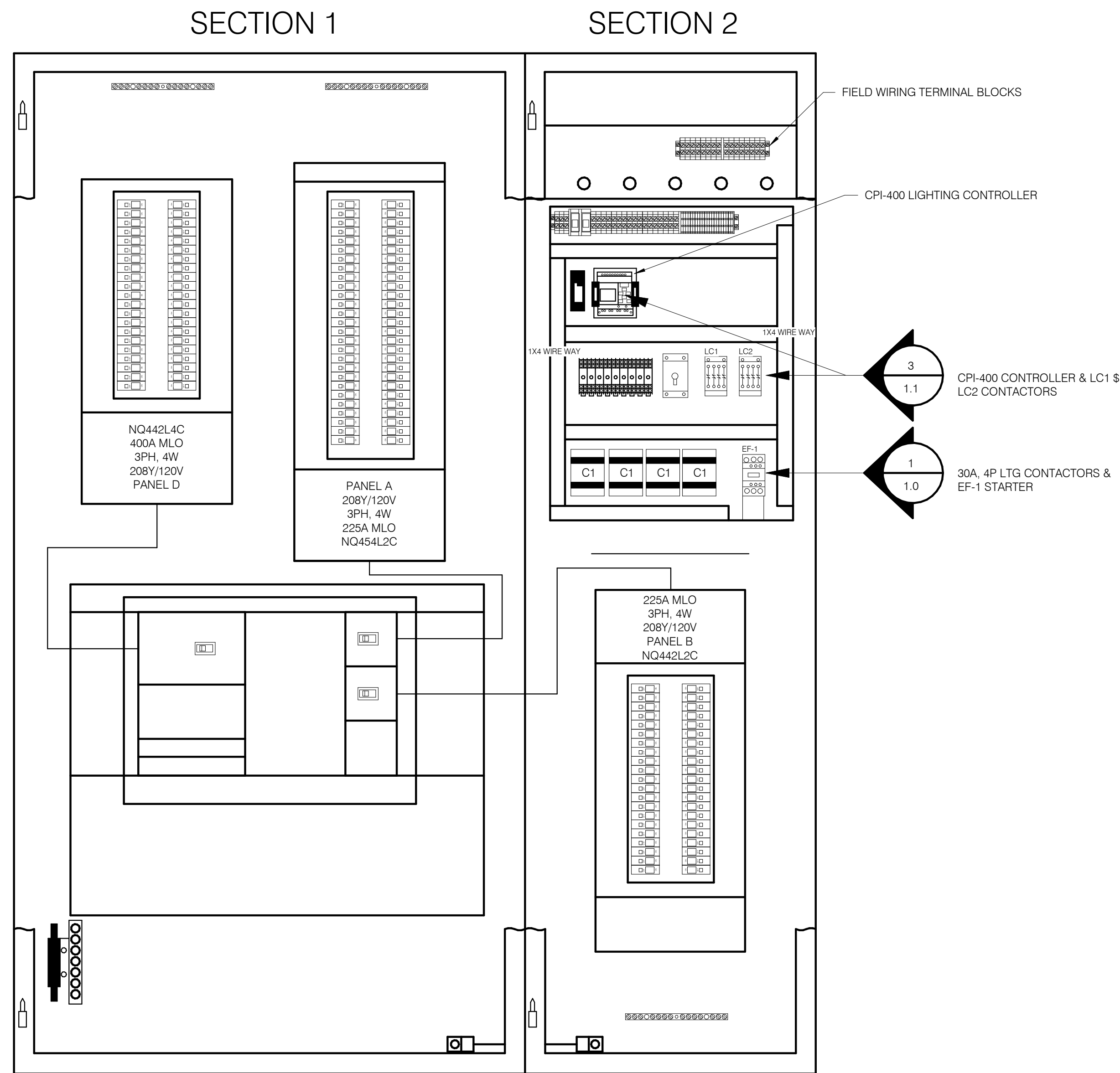
D. ALL OUTLETS AND BOXES MOUNTED IN THE SERVING COUNTER CABINETRY ARE TO BE 24" AFF. INSTALL JUNCTION BOXES WITH CONDUIT UNDER CABINET TO NEAREST WALL AND TO ABOVE CEILING.

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 5/E3.1.
HM	04	D/T COMM SYSTEM J-BOX	+18" A.F.F.	4X8 J-BOX W/ (1) 1" CONDUIT TO HM-02, (1) 1" CONDUIT TO HM-07A, (1) 1" CONDUIT TO PICK-UP WINDOW D/T LOOP, AND (3) 1" CONDUIT TO D/T MENU BOARD. 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 5/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 5/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 5/E3.1.
HM	11	D/T CONTROL UNIT J-BOX	+128" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-12. SEE DETAIL 5/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	SPEAKER WIRING FROM SPEAKERS IN DINING ROOM TO AMPLIFIER IN OFFICE. FOR EXACT LOCATION OF SPEAKERS, SEE LIGHTING PLAN SHEET E4.0.
M	03	MUSIC SYSTEM J-BOX (SEE ENLARGED PLAN)	+60" A.F.F.	4X4 J-BOX & COVER W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR MUSIC SYSTEM. SEE SCOPE OF WORK.
O	01	(4) 1" DATA CONDUITS	U.G.	FROM MENU BOARD/SPEAKER POST TO ABOVE CEILING FOR OCB AND D/T/ COMM. SYSTEM. SEE DETAIL 3/E7.0
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	J-BOX SECURITY SYSTEM	+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.

COMMUNICATIONS ROUGH-IN SCHEDULE

COMM. TYPE	COMM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
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.	2X4 J-BOX W/ DOUBLE RJ-11 PHONE JACK & 1" CONDUIT TO ABOVE CEILING
T	03	VOICE LINE PHONE JACK	+106" A.F.F.	2X4 J-BOX W/ RJ-11 PHONE JACK AND 1" CONDUIT TO ABOVE CEILING.
T	04	COMPUTER PHONE JACK (SEE ENLARGED PLAN)	+42" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING.
T	05	POS PHONE JACK	+24" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING.
TV	02	MINI-DOME CAMERA MTD.	+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.
V	03	DIGITAL MENUBOARD	+106" A.F.F.	J-BOX MTD. TO TOP OF MENU BOARD BULKHEAD. 2X4 J-BOX W/ (1) 1/2" CONDUIT (2
S	01	J-BOX SECURITY SYSTEMS	+48" A.F.F.	4X4 J-BOX AT SECURITY 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
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



CPI INTEGRATED TACO BELL CONTROLS :

THE CPI CONTROL SYSTEM IS TO ACTIVATE OR DEACTIVATE THE FOLLOWING:

- BUILDING SIGNS AND PARKING LIGHTS
- KITCHEN AND DINING LIGHTING
- EXHAUST HOOD FAN (EF-1 AND EF-2)
- MAKE UP AIR / REPLACEMENT AIR FAN

SEQUENCE OF OPERATION

OCCUPIED MODE

A TEAM MEMBER TURNS ON KITCHEN LIGHTS BY FLIPPING A WALL SWITCH 'UP' IN THE KITCHEN, PLACING THE KITCHEN IN 'OCCUPIED' MODE. THE SWITCH IS INSTALLED INVERTED IN THE KITCHEN SO THAT THE NORMAL ACTION OF FLIPPING THE SWITCH UP BREAKS POWER TO THE LIGHTING CONTACTOR (LC1) IN THE CPI SWITCHGEAR CONTROL SYSTEM. THE CONTACTS IN THE LIGHTING CONTACTOR REVERT TO THEIR NORMALLY CLOSED POSITION. THIS ALLOWS POWER TO PROCEED TO THE FOLLOWING:

- THE RESTROOM AND COOKLINE EXHAUST FAN MARKED 'EF-2'
- A LIGHT SWITCH IN THE KITCHEN FOR THE DINING ROOM LIGHTS
- THE KITCHEN LIGHTS
- THE EXHAUST HOOD FAN MARKED 'EF-1', HOOD LIGHTS, AND RELAY (R6) FOR MAKE UP AIR / REPLACEMENT AIR FAN (EVAPORATOR FAN) IN RTU-1 AND RTU-2.

UNOCCUPIED MODE

A TEAM MEMBER TURNS OFF THE KITCHEN LIGHTS BY FLIPPING THE WALL SWITCH 'DOWN' IN THE KITCHEN, PLACING THE KITCHEN IN 'UNOCCUPIED' MODE. THE SWITCH IS INSTALLED INVERTED IN THE OFFICE SO THAT THE NORMAL ACTION OF FLIPPING THE SWITCH DOWN PROVIDES POWER TO THE LIGHTING CONTACTOR (LC1) IN THE CPI SWITCHGEAR CONTROL SYSTEM. THE CONTACTS IN THE LIGHTING CONTACTOR OPEN FROM THEIR NORMALLY CLOSED POSITION. THIS BREAKS POWER TO THE FOLLOWING:

- THE RESTROOM AND COOK LINE EXHAUST FAN MARKED 'EF-2'
- A LIGHT SWITCH IN THE KITCHEN FOR THE DINING ROOM LIGHTS
- THE KITCHEN LIGHTS
- OCCUPIED SIGNAL FOR THE EXHAUST HOOD FAN MARKED 'EF-1' AND RELAY (R6) FOR THE MAKE UP AIR / REPLACEMENT AIR FAN (EVAPORATOR FAN) IN RTU-1 AND RTU-2.

EXHAUST FAN (EF-1) AND MAKE UP AIR RELAY (R6) OFF DELAY TIMER

UPON LOSING THE 'OCCUPIED' MODE SIGNAL FROM WALL SWITCH IN THE KITCHEN THE CPI-400 CONTROLLER WILL START AN OFF DELAY TIMER (15 MINUTES). DURING THIS TIME DURATION THE EXHAUST FAN (EF-1) AND RELAY (R6) FOR THE MAKE UP AIR / REPLACEMENT AIR FAN (EVAPORATOR FAN) IN RTU-1 AND RTU-2 WILL REMAIN ON. AFTER THE TIME DURATION HAS ELAPSED THE EF-1 AND R6 COMPONENTS WILL TURN OFF. **OFF DELAY TIMER IS ADJUSTABLE VIA CPI-400 BUILT-IN DISPLAY SCREEN.

HOOD STAT

IN THE EVENT OF A RISE IN TEMPERATURE ABOVE 100°F IN THE EXHAUST HOOD, CONTROL VOLTAGE WILL BE SENT TO THE CPI-400 WHICH WILL IMMEDIATELY ACTIVATE EXHAUST FAN (EF-1) AND RELAY (R6). WHEN ACTIVATED, MOTOR STARTER EF-1 CONTACTS CLOSE PROVIDING POWER TO EXHAUST FAN MOTOR. IT ALSO CLOSES AUXILIARY CONTACTS THAT TURN ON THE EXHAUST HOOD LIGHTS. UPON ACTIVATION OF RELAY R6, THE CONTACTS FOR RTU-1 AND RTU-2 CLOSE, RETURNING 24VAC TO THE EVAPORATOR FAN CONTROLLER OF EACH UNIT.

WHEN IN UNOCCUPIED MODE AND UPON DROP IN TEMPERATURE BELOW 100°F IN THE EXHAUST HOOD, CONTROL VOLTAGE TO THE CPI-400 IS DROPPED AND STARTS THE OFF DELAY TIMER MENTIONED IN THE 'EXHAUST FAN (EF-1) AND MAKE UP AIR RELAY (R6) OFF DELAY TIMER NOTES ABOVE)

EXTERIOR LIGHTS

LIGHTS ON: LIGHTING IN BOTH ZONE 1 AND ZONE 2 SHALL TURN ON WHEN BOTH TIME OF DAY SCHEDULE AND EXTERIOR LIGHT LEVEL AGREE.

LIGHTS OFF: LIGHTING IN ZONE 1 AND ZONE 2 SHALL TURN OFF WHEN EITHER THE TIME OF DAY SCHEDULE OR EXTERIOR LIGHT LEVEL AGREE.

OVERRIDE: THE MOMENTARY ILLUMINATED PUSHBUTTONS INSTALLED ON DOOR OF THE CPI SWITCHGEAR SHALL TURN LIGHTS ON OR OFF REGARDLESS OF WHETHER THE TIME OF DAY SCHEDULE OR EXTERIOR LIGHT LEVELS. WHEN THE OVERRIDE IS USED TO TURN ON THE LIGHTS, THE CPI-400 SHALL TURN THE LIGHTS OFF AGAIN WITHIN AN HOUR AND THE OVERRIDE FUNCTION SHALL BE DEACTIVATED. WHEN THE OVERRIDE IS USED TO TURN LIGHTS OFF, THE NEXT SCHEDULED TIME OF DAY OR EXTERIOR LIGHT LEVEL EVENT SHALL DEACTIVATE THE OVERRIDE FUNCTION AND THE SYSTEM SHALL RETURN TO NORMAL FUNCTION.

UNITIZED SWITCHGEAR WITH INTEGRATED CONTROLS SUPPLIER:

CAROLINA PRODUCTS, IN
(704) 364-9029 (PH)
(704) 367-1215 (FAX)

PRIMARY CONTACT: TONY THORNTON
EMAIL: TONYT@CPIPANELS.COM

08.06.18	ISSUED FOR CONSTRUCTION
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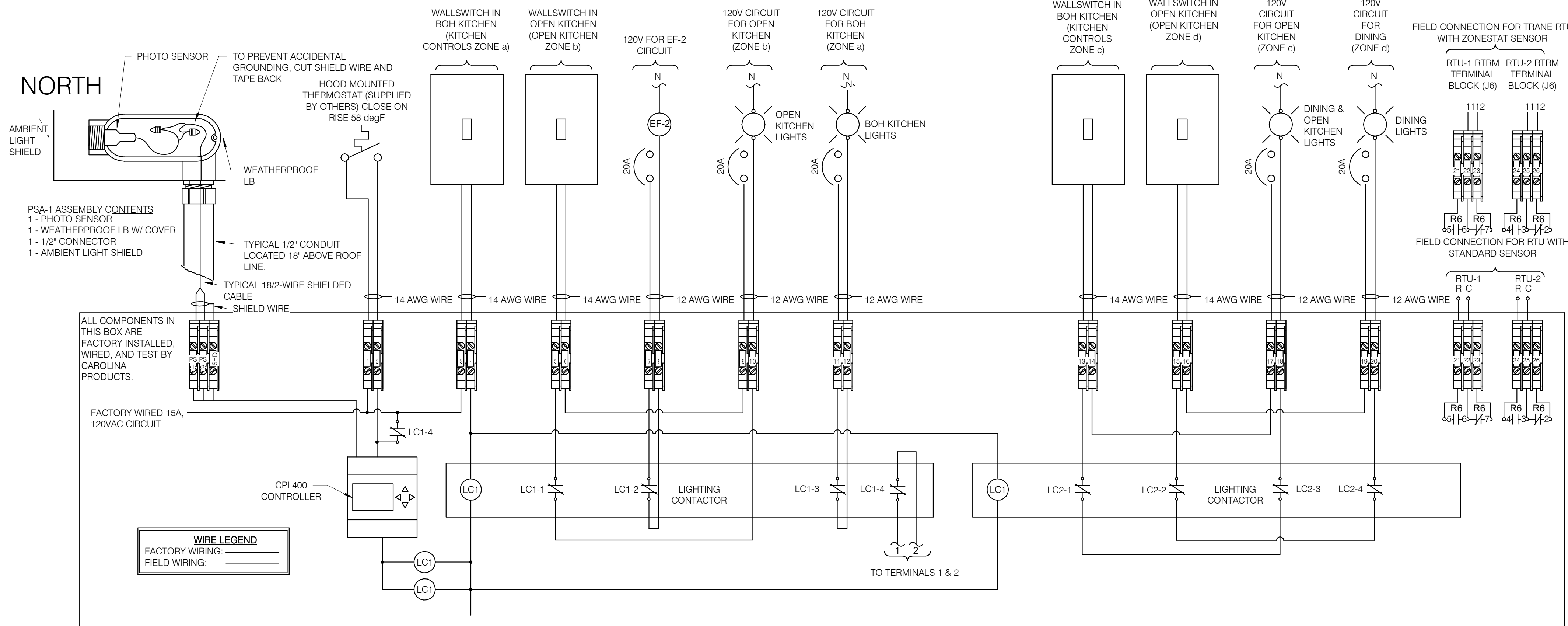
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TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

**ELECTRICAL
DETAILS - TBCCB**
(FOR REFERENCE ONLY)

E6.0

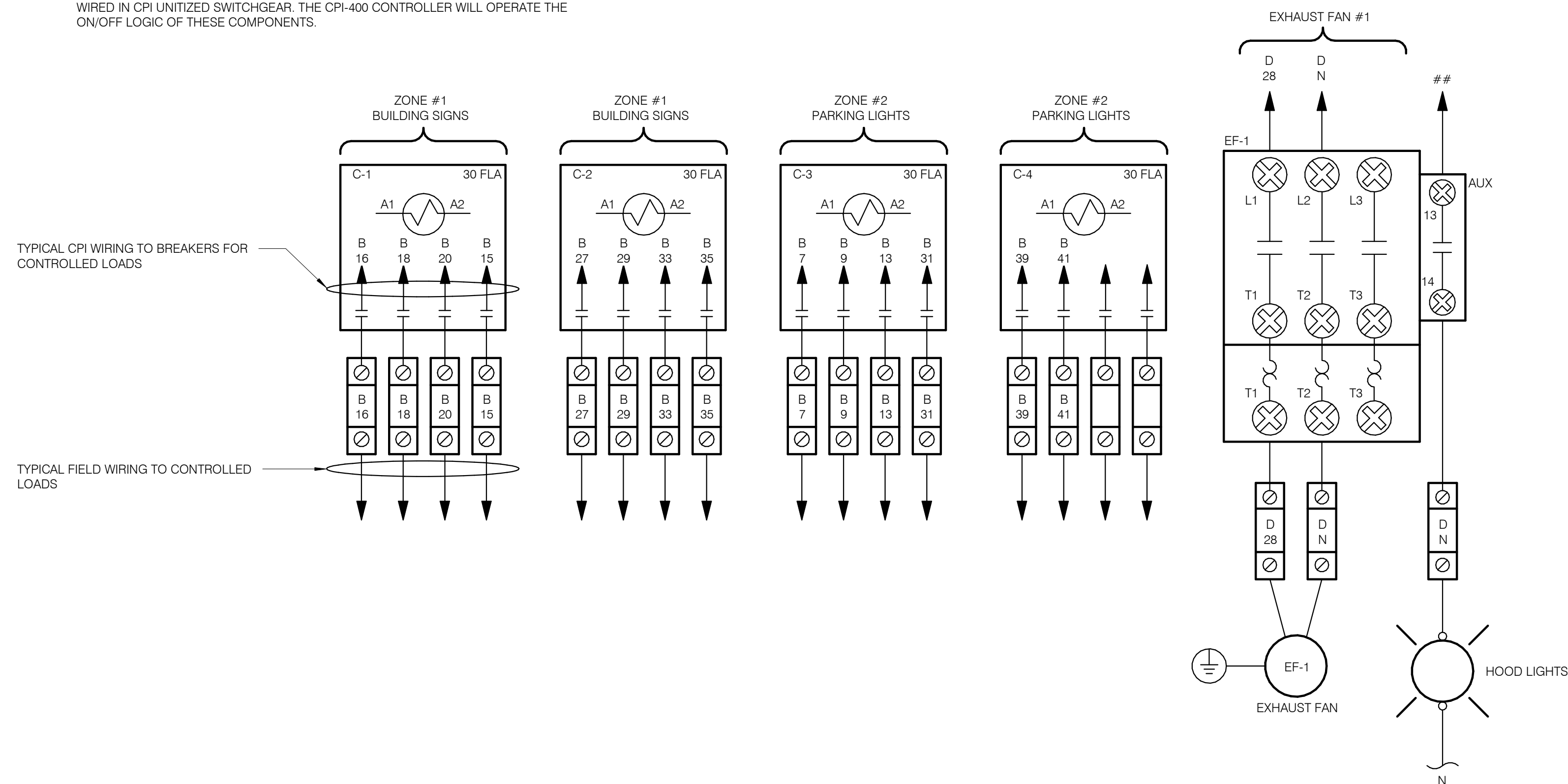
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CPI SWITCHGEAR INTEGRATED CONTROL 6" = 1'-0" **1**

IMPORTANT NOTE:

ALL LIGHTING CONTACTORS AND EXHAUST FAN (EF-1) ARE FACTORY INSTALLED AND WIRED IN CPI UNITIZED SWITCHGEAR. THE CPI-400 CONTROLLER WILL OPERATE THE ON/OFF LOGIC OF THESE COMPONENTS.



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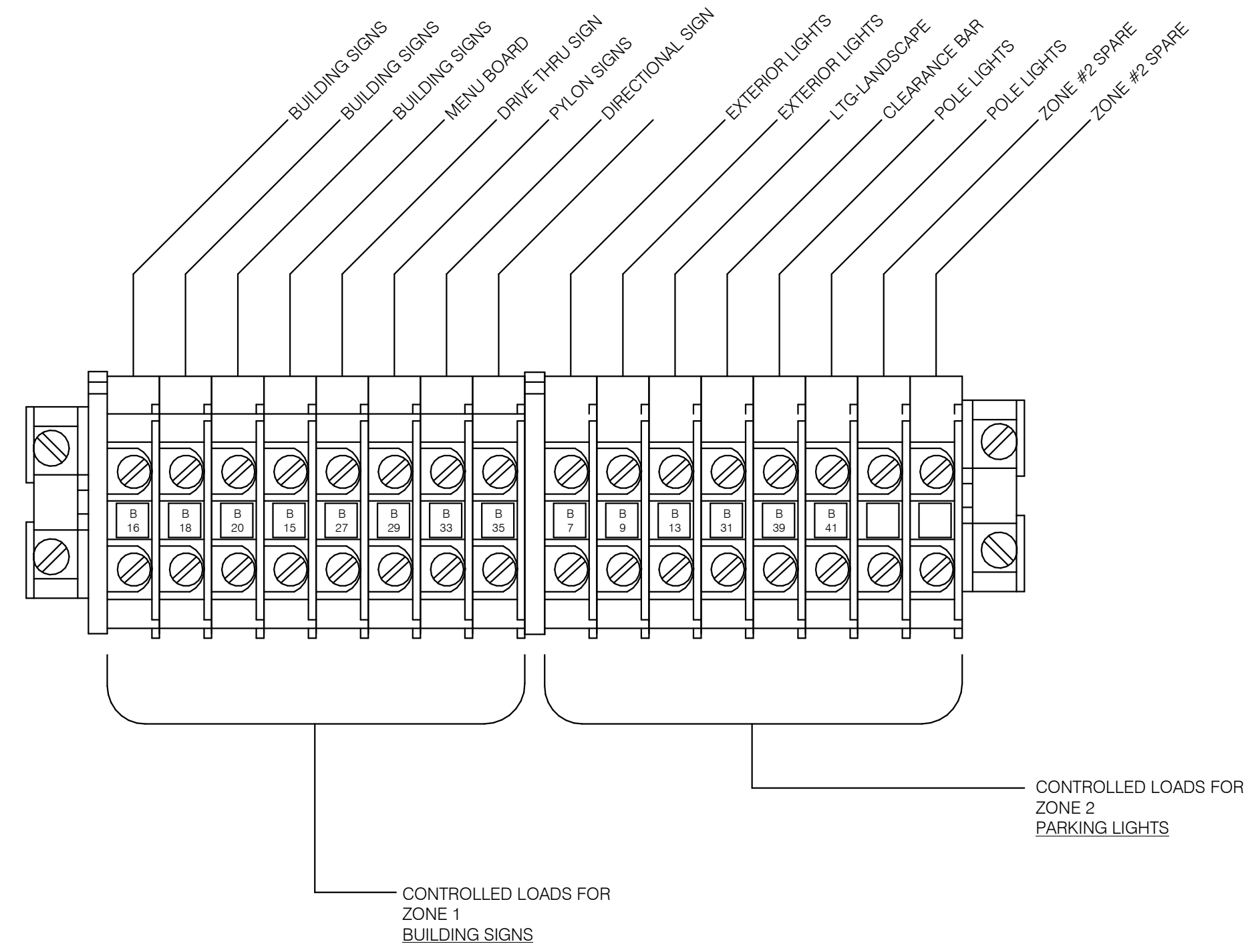
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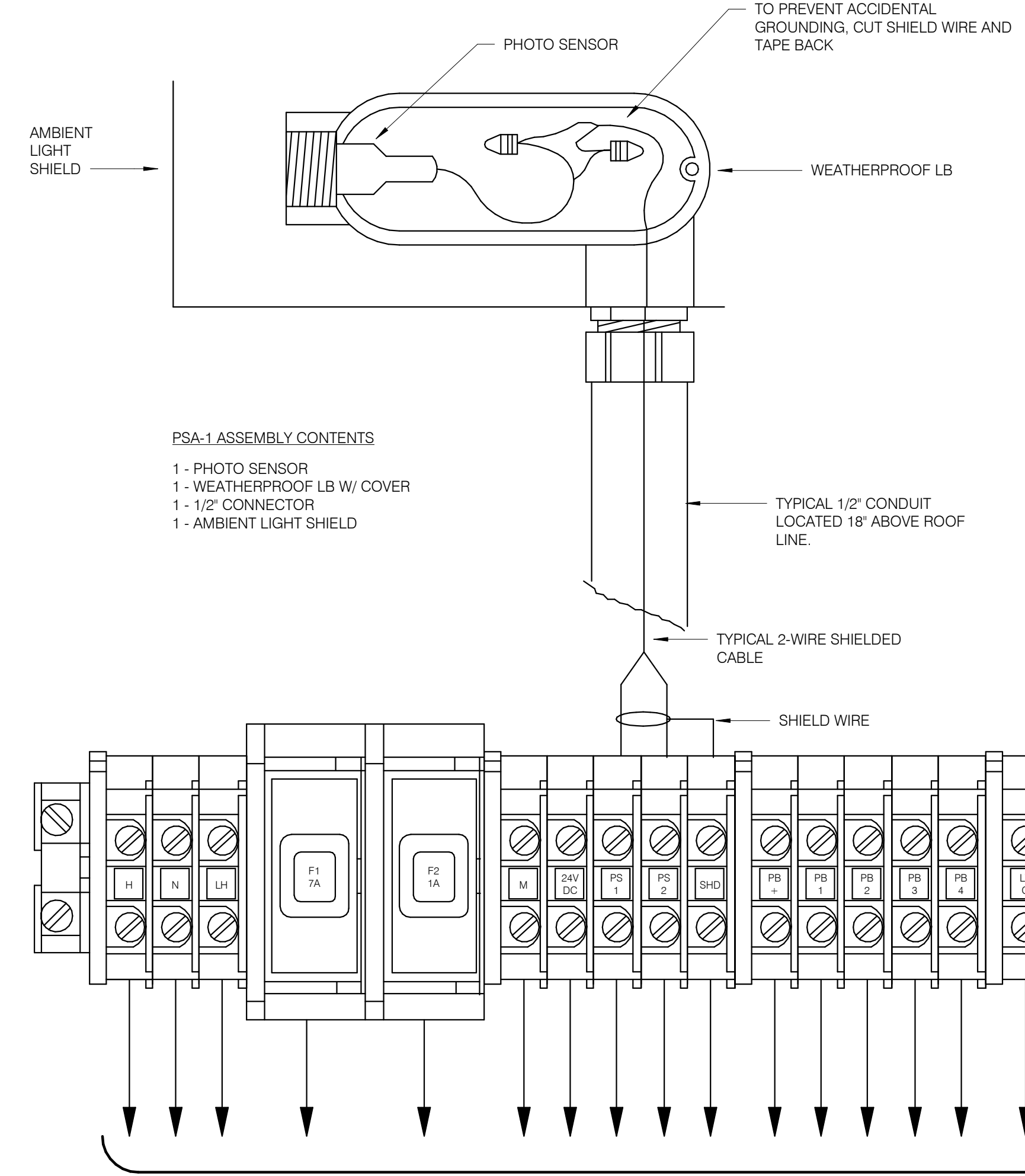
**ELECTRICAL
DETAILS - TBCCB**
(FOR REFERENCE ONLY)

E6.1



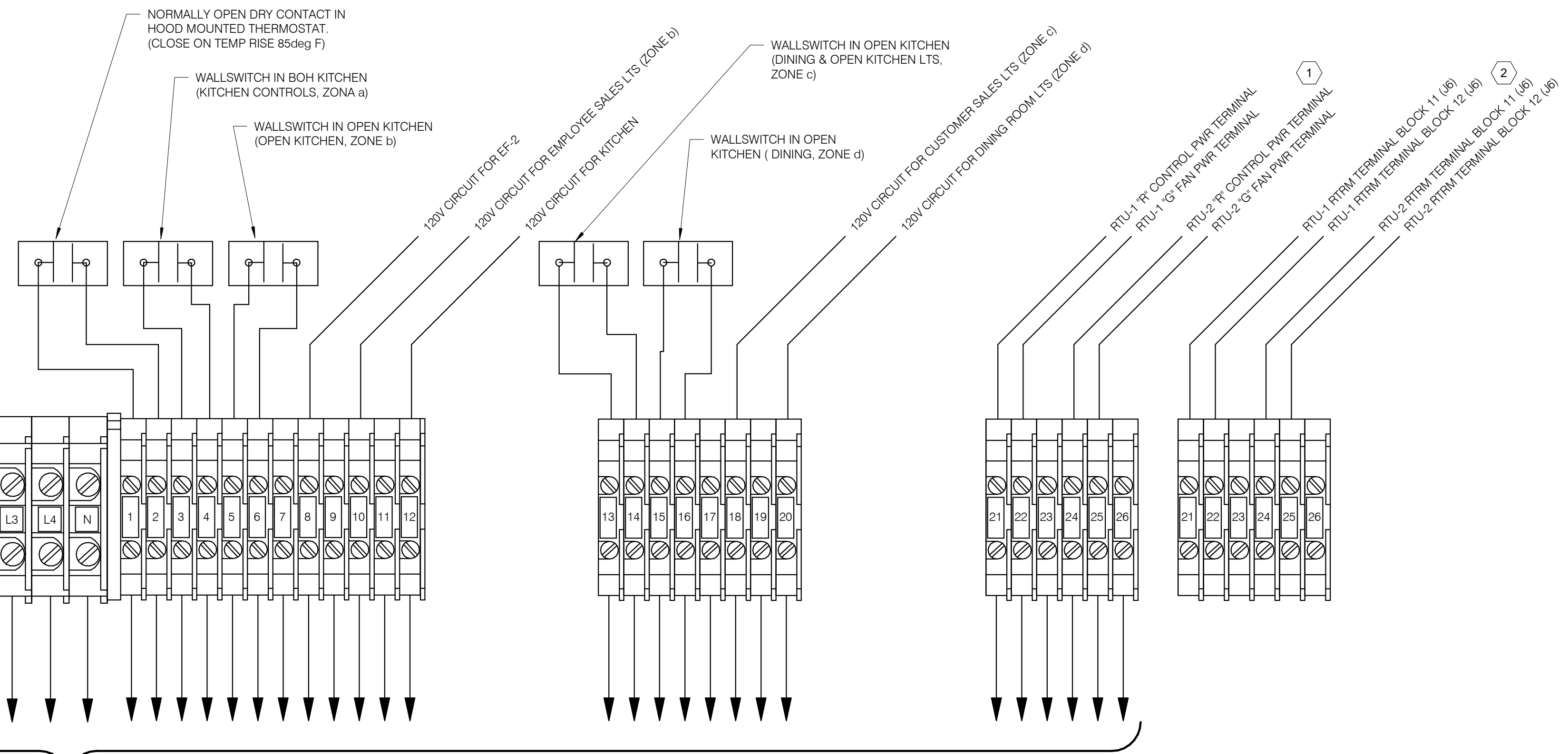
FIELD CONNECTIONS TO CONTROLLED LOADS FROM TERMINAL BLOCK SHELF N.T.S. **1**

NORTH ←



- PSA-1 ASSEMBLY CONTENTS**
- 1 - PHOTO SENSOR
 - 1 - WEATHERPROOF LB W/ COVER
 - 1 - 1/2" CONNECTOR
 - 1 - AMBIENT LIGHT SHIELD

- NOTES:** #
1. FIELD CONNECTION FOR RTU WITH STANDARD SENSOR.
 2. FIELD CONNECTION FOR TRANE RTU WITH ZONESTAT SENSOR.



REFER TO DETAIL 1 (E6.1) FOR FACTORY CONTROL WIRING

FIELD CONNECTIONS TO TERMINAL BLOCKS N.T.S. **2**

08.06.18	ISSUED FOR CONSTRUCTION
06.20.18	ISSUED FOR BID
02.16.18	ISSUED FOR PERMIT

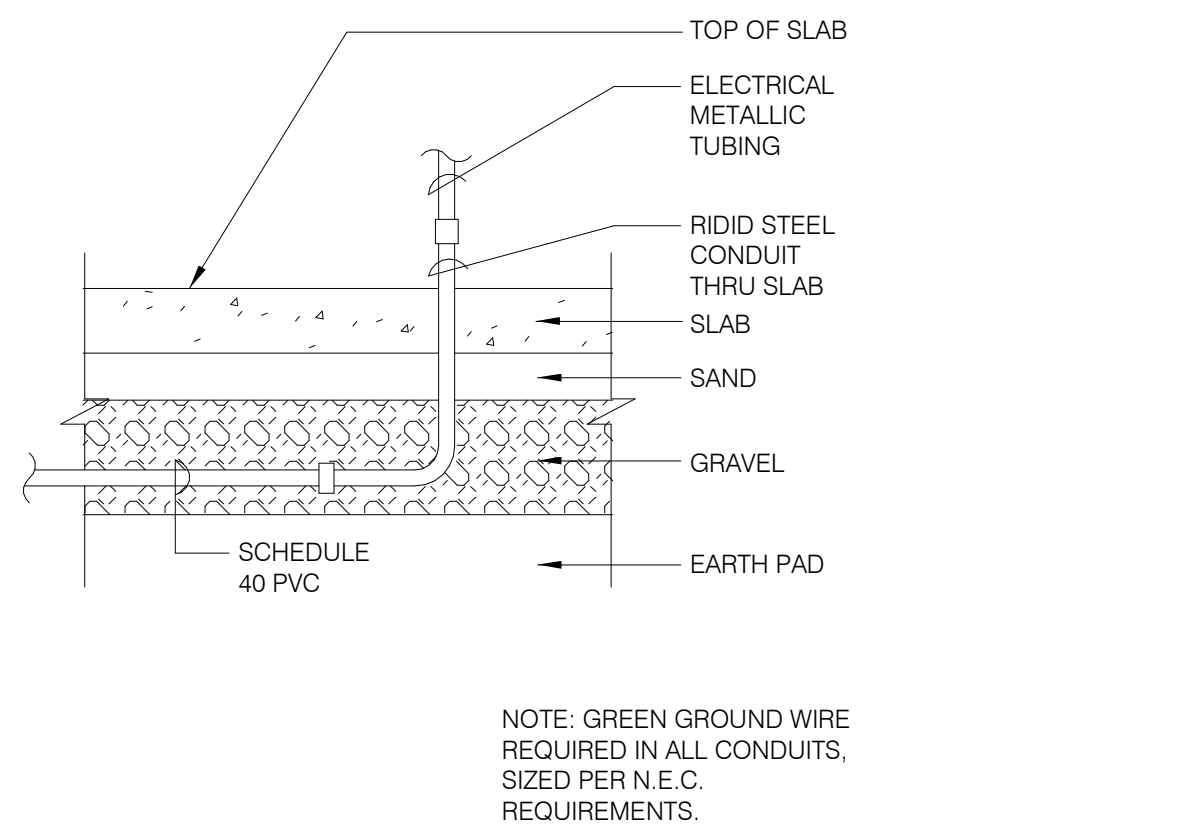
CONTRACT DATE: XX.XX.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

Taco Bell
NORTHLINEROAD
SOUTHGATE, MI 48195

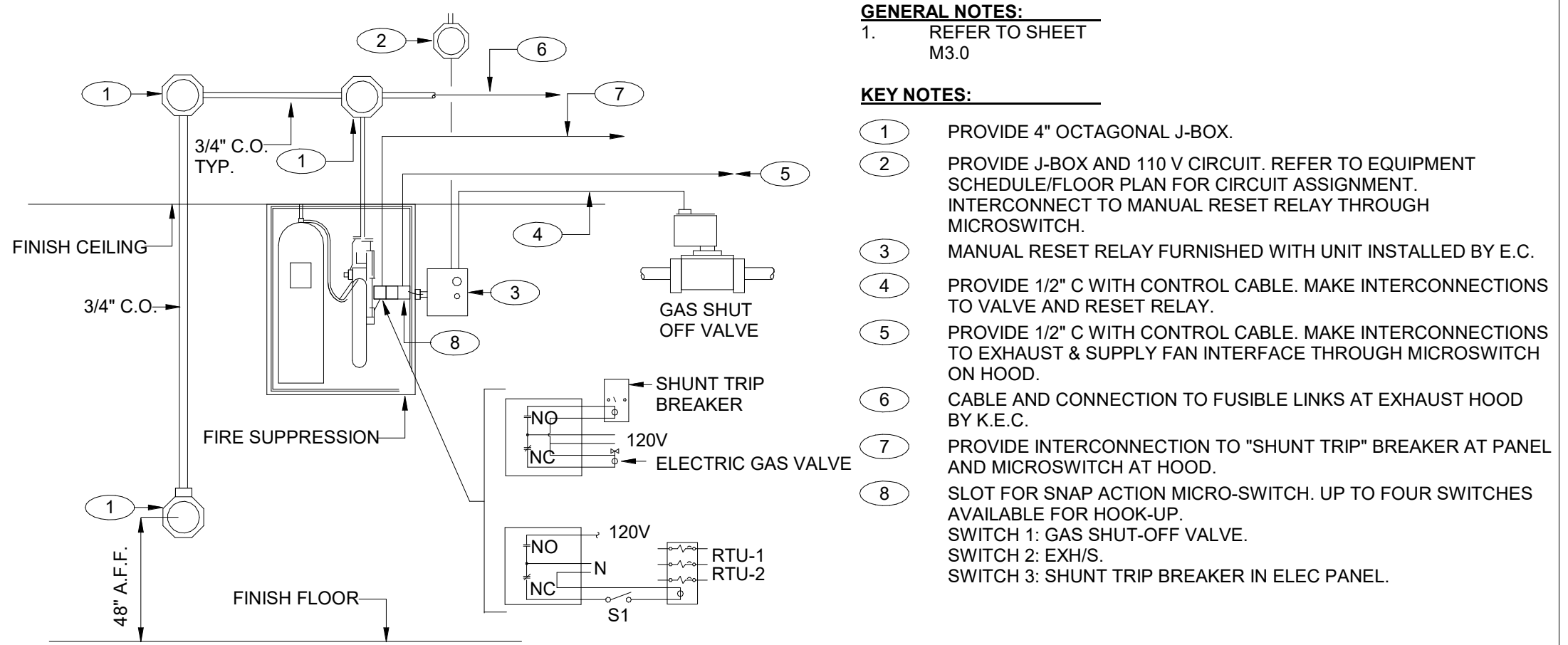
TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

ELECTRICAL DETAILS - TBCCB
(FOR REFERENCE ONLY)

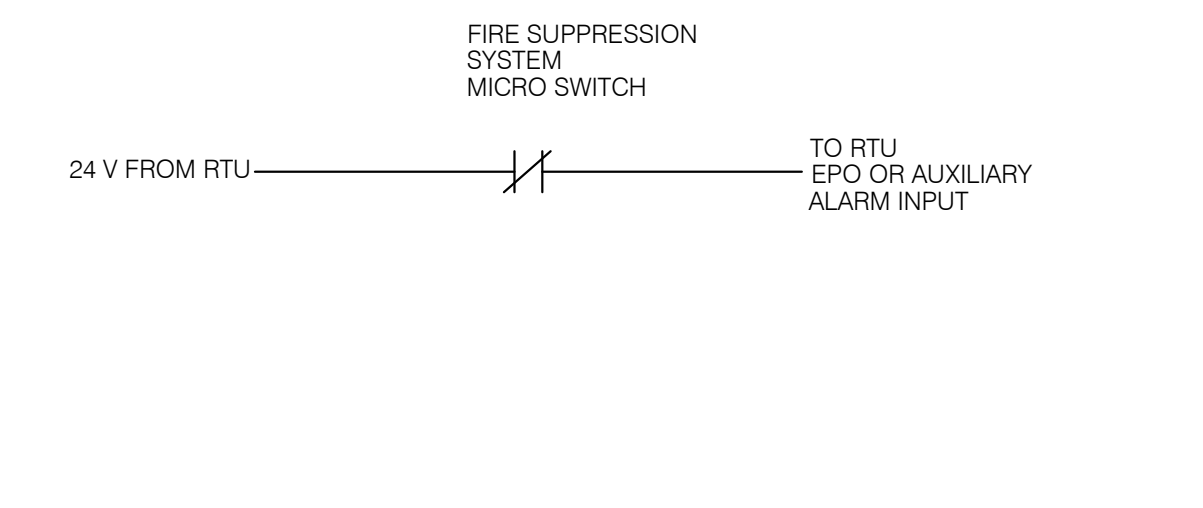
E6.2
PLOT DATE: 8/7/2018 9:12:25 AM



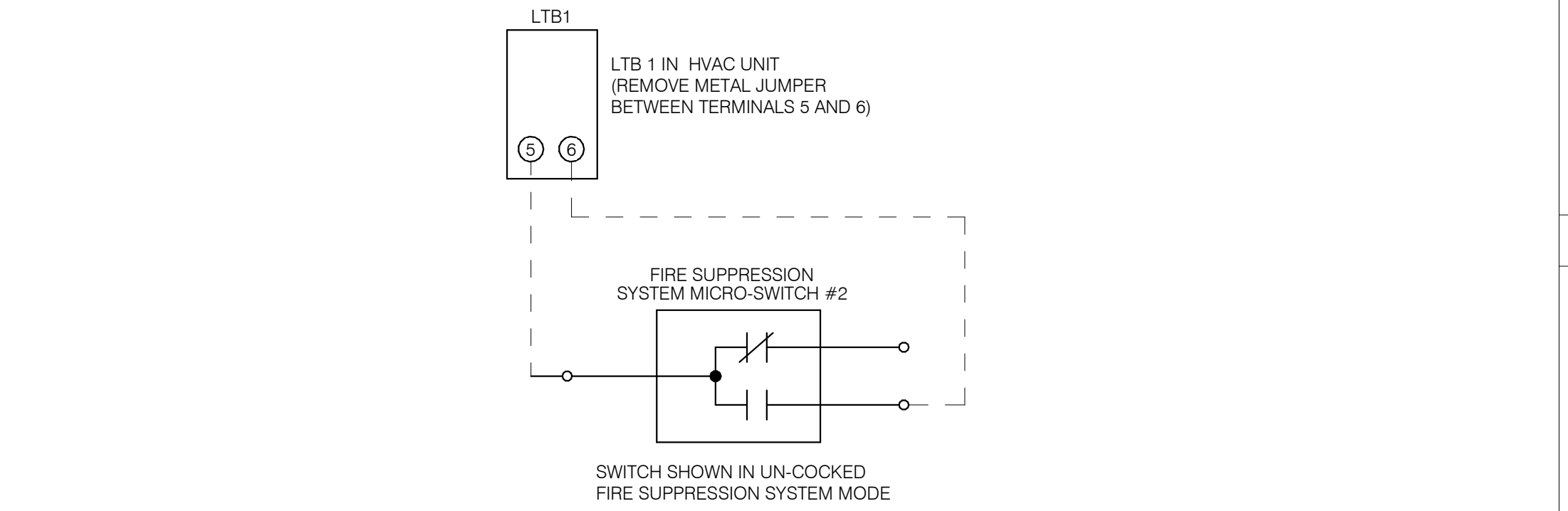
UNDER SLAB CONDUIT1 12" = 1'-0" **6**



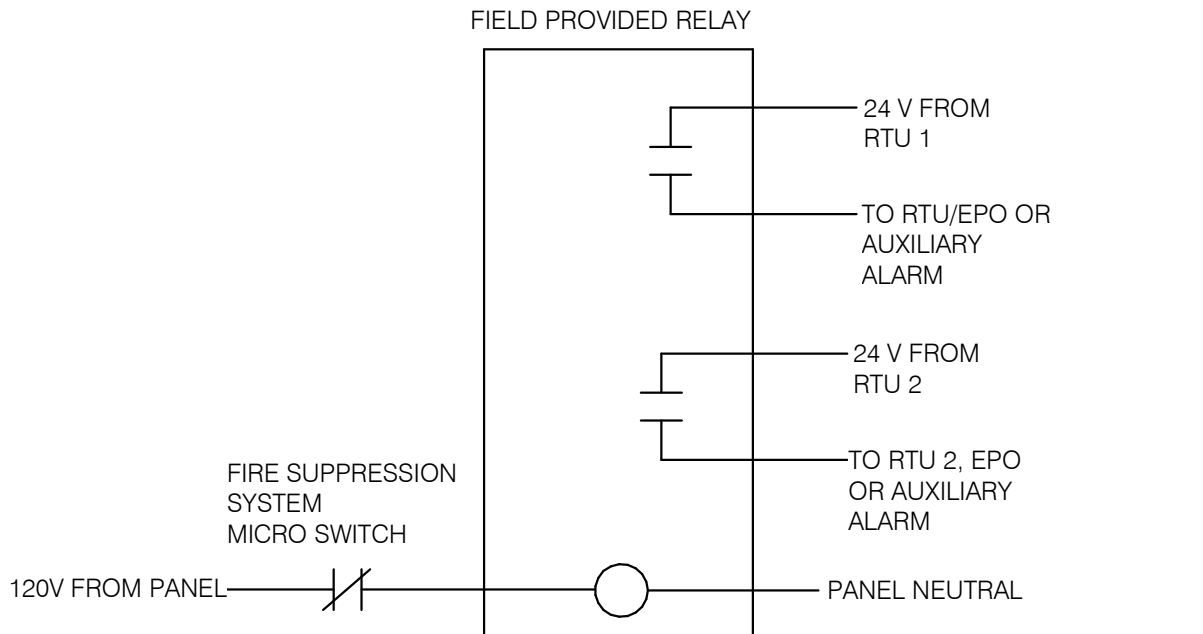
FIRE SUPPRESSION SYSTEM WIRING DIAGRAM1 12" = 1'-0" **4**



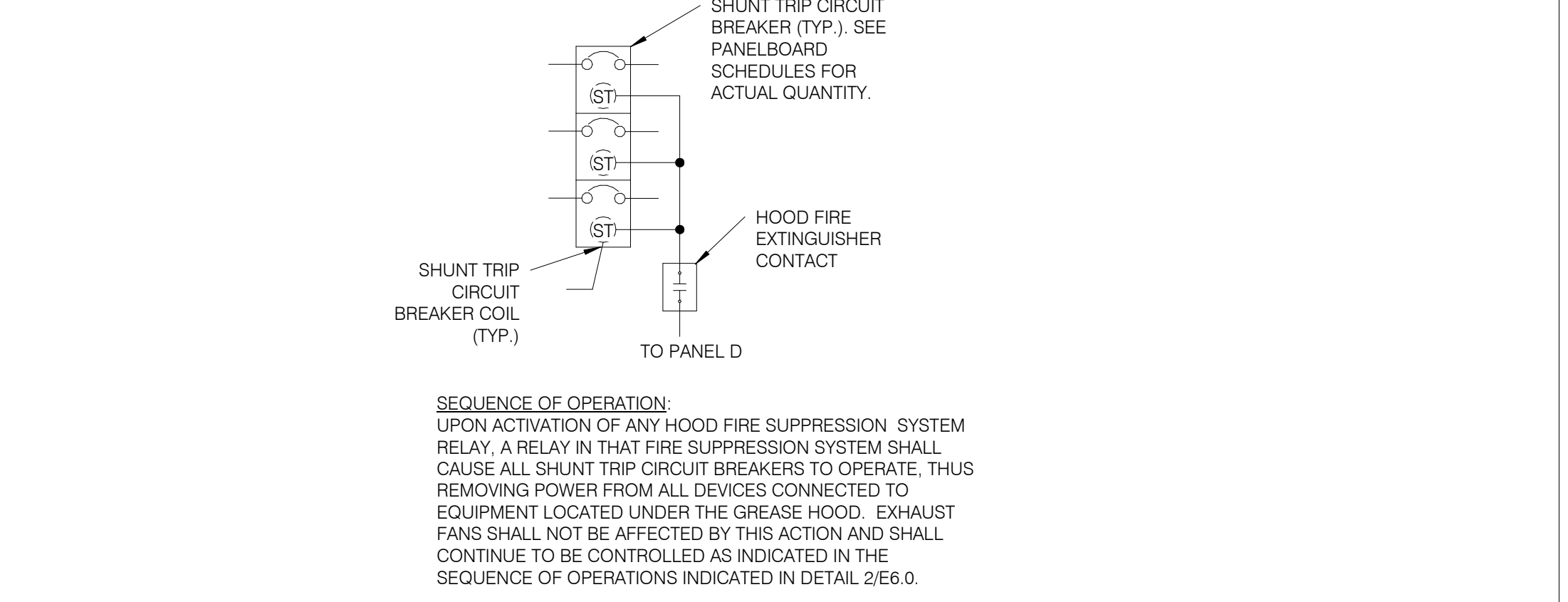
SINGLE UNIT SHUTDOWN N.T.S. **7**



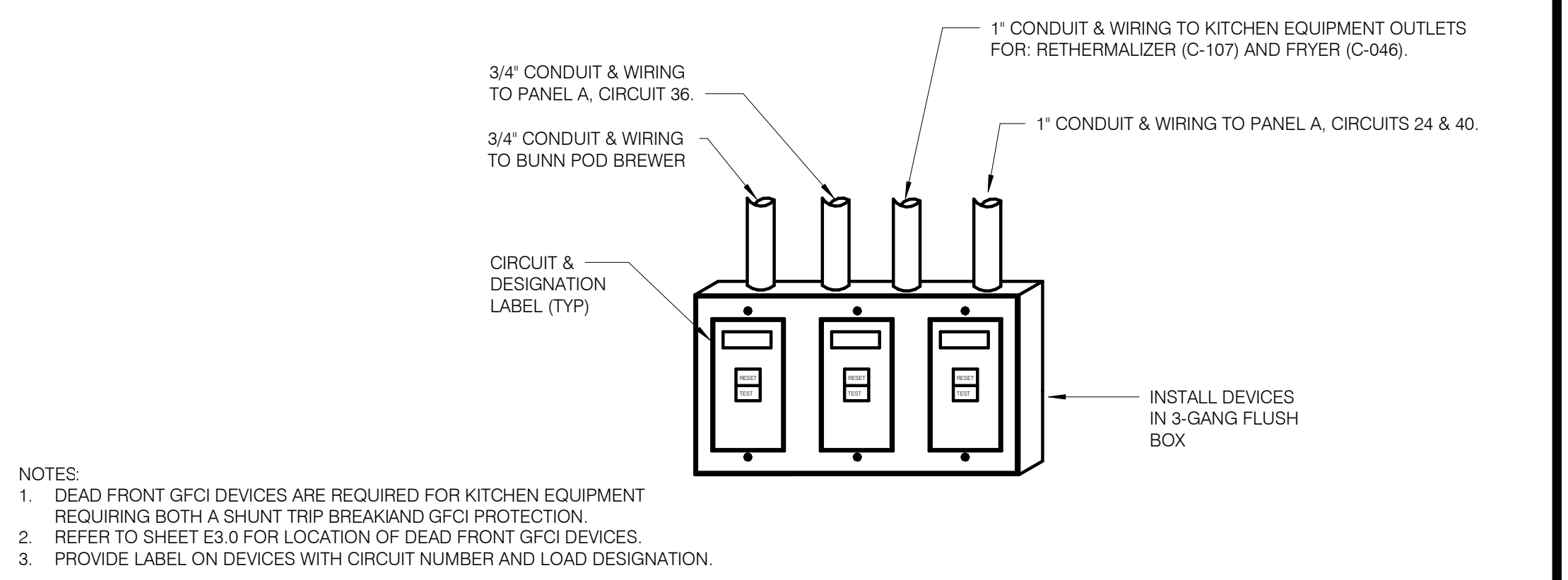
FIRE SUPPRESSION SYSTEM-TRANE SHUTDOWN N.T.S. **5**



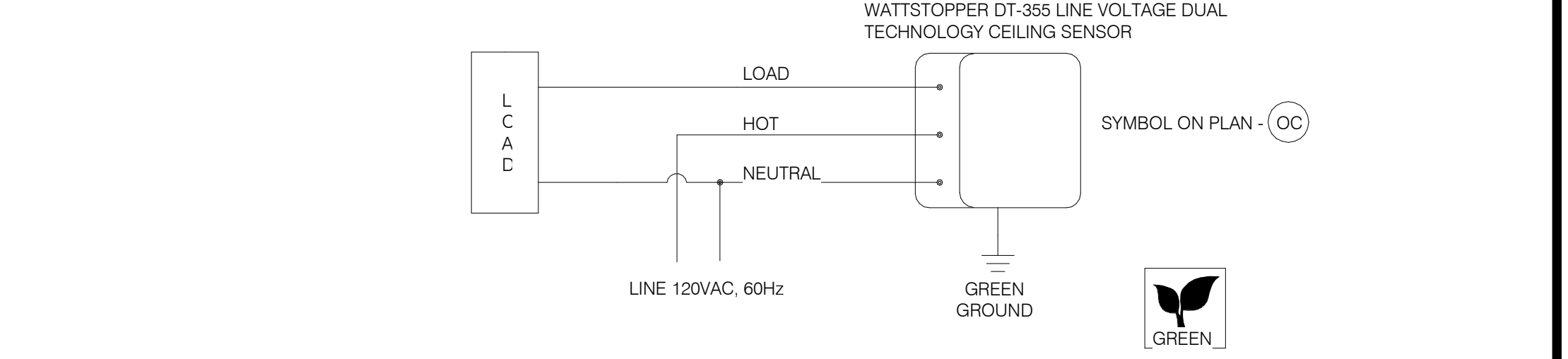
MULTI UNIT SHUTDOWN N.T.S. **8**



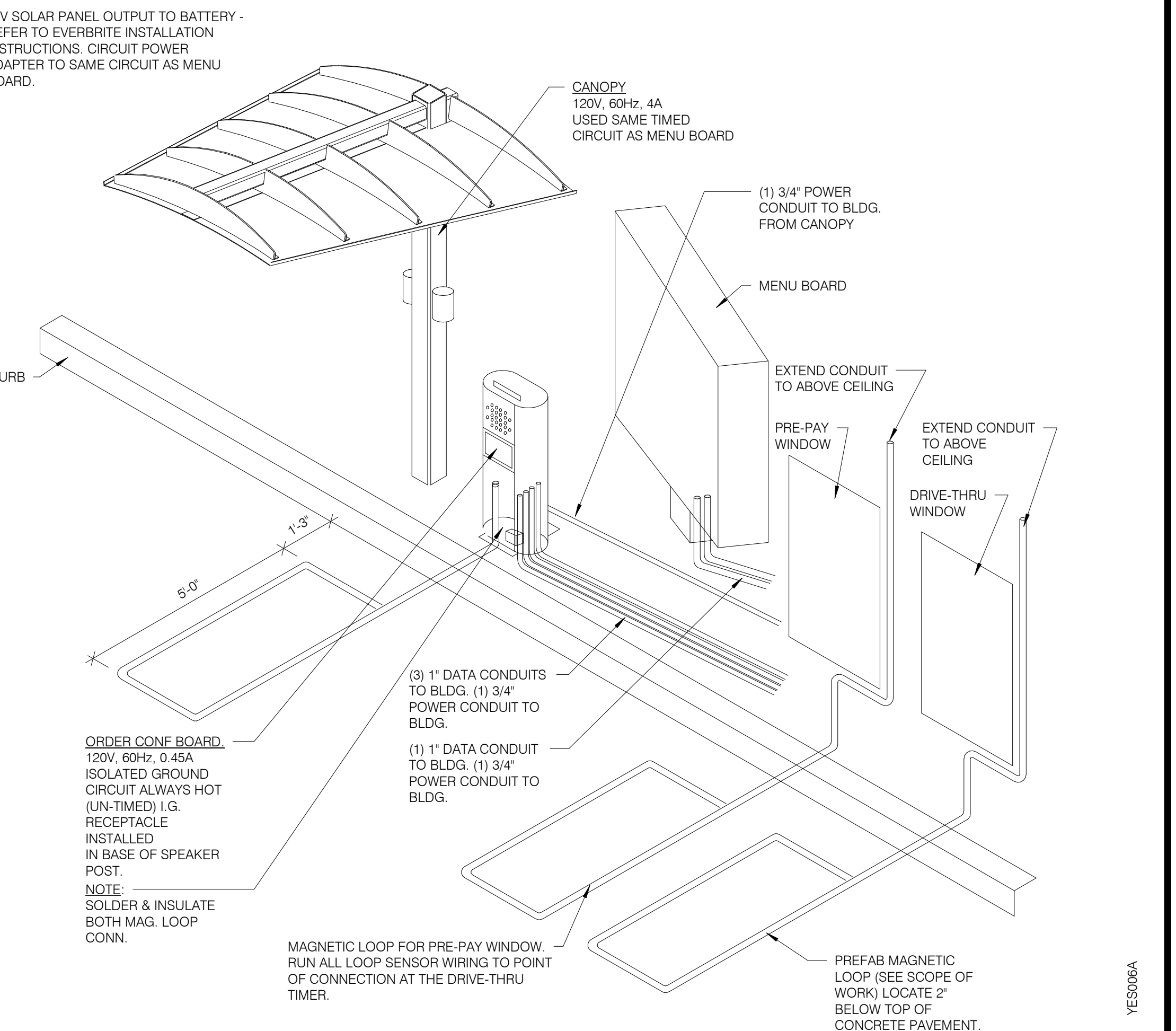
SHUNT TRIP DETAIL1 12" = 1'-0" **9**



DEAD-FRONT GFCI DEVICE DETAIL N.T.S. **3**



CEILING OCCUPANCY SENSOR WIRING DIAGRAM1 N.T.S. **2**



DRIVE-THRU COMMUNICATIONS ISOMETRIC1 N.T.S. **1**

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PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312529/445209
STORE NUMBER: 2017088.20

Taco Bell
NORTHLINEROAD
SOUTHGATE, MI 48195

TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

ELECTRICAL DETAILS

E7.0

TITLE	DESCRIPTION	SUPPLIER	MANUFACTURER'S MODEL	A&D ITEM #	ORDERED BY	SHIPPED BY	INSTALLED BY	SHOP DRAWINGS
6200	Roof Access Ladder & Hatch (T50 only)	Precision	FL 184 (Ladder) & PLHG (Hatch)	B-049 (Ladder) & B-050 (Hatch)	DIS	DIS	GC	
8341	Door - Security	LockNet	DU3670L5ZVED	-	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 Menu Board & Preview Board Housings	Everbrite	VARIES	-	CM (Company), CM or DIS (Franchise)	Manufacturer	Federal Heath Sign Co or GC	X
	Interior Menuboard	Order Matic Corporation	VARIES	-	CM (Company), CM or DIS (Franchise)	Manufacturer	GC	
	Exterior Menuboard Strip, Interior Menu Board Panels, POP	VGS	VGS #MB-MBD-I-10P	L-016	DIS	Manufacturer	GC	
10430	Signage (Bldg Signs, Road Signs, Directional Signs)	Taco Bell Marketing (represents supplier "Archway")	-	-	RSCS	DIS	OPS	
		Everbrite	VARIES	VARIES	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
			VARIES	VARIES				
			VARIES	VARIES				
10536	Canopies / Slat Walls / Flying Arches	Everbrite	VARIES	VARIES	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
			VARIES	VARIES				
			VARIES	VARIES				
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 / Portal	Everbrite	-	-	CM	Manufacturer	GC	
			-	-				
			-	-				
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	P6YUC5TDUSVW1S; 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; G55HSSSINGLE	-				
11300-4	Order Confirmation Board (OCB) Canopy	Everbrite	823N16INX4X9CPY	V-350	CM, Franchisee or DIS on behalf of Franchisee	Manufacturer	GC (see Scope of Work notes)	X
			E005749B					
			500115671					
			TBCAN9246					
11400-1	Kitchen Equipment	RSCS (Company stores only)	VARIES	VARIES	DIS	DIS	GC (see General Comments)	X
			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				
		Kolpak	VARIES	VARIES				
11425	Exhaust Hoods	Stratavent (preferred supplier)	VARIES	VARIES	DIS	DIS	GC	X
		Gaylord Industries (Broiler hood, preferred supplier)	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	Creative Palette	VARIES	-	DIS	DIS	GC	
		Clark and Riggs Printing	VARIES	-				
12400-5	Décor	iDx for transformational	VARIES	-	DIS	DIS	GC	X
			VARIES	-				
			VARIES	-				
			VARIES	-				
			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 Rep Tec (West)	
		FBD Equipment Manufacturer	VARIES	VARIES				
		Taco Bell Engineering	VARIES	VARIES				
12440	Iced Tea	Tetley	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	Lighting Control Panel - Exterior	Accuserv	Cooper LT16	-	DIS	DIS	GC	
13800-2	Exhaust Fan - Make Up Air Interlock & Interior Lighting Control Panel	Air Care Experts	TBCB-1	-	Contractor	Air Care	Air Care	
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				
		-	-	-	RSCS	RSCS	GC	
15500-1	HVAC - Test and Balance	Test and Balance Corp.	-	-	Determined by CM or RCM; Approved options - GC	Determine by CM or RCM; Approved options - GC	Determined by GC / CM / RCM	X
		Melink Corp/	-	-				
		Air Care Experts	-	-	CM/RCM	Manufacturer	GC	X
15700-1	HVAC	Trane (Company stores)	VARIES	-	GC	Manufacturer	GC	
		York International (Franchise only)	VARIES	-				
16300-1	Switchgear - Franchisee	Accuserv	Square-D and Cutler Hammer	VARIES	DIS	DIS	GC	X
16300-2	Switchgear - Company	Accuserv	Square-D and Cutler Hammer	VARIES	GC or RSCS (confirm with CM at time of bid)	GC	GC	X
16500	Light Fixtures - Interior and Building	Capital Light	VARIES	-	Accuserv - DIS; Genesis - GC	Accuserv - DIS; Genesis - GC	GC	X
			VARIES	-				
16520	Light Fixtures - Site	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)	X
16820-3	Music System	Mood Media	-	-	F-131	Manufacturer	Manufacturer (Local Installer)	X
		Bunn	42300.0008	S-547	RSCS	RSCS	GC	
			-	-	GC	Manufacturer	GC	X
	Floor and Wall Tile	Creative Materials	-	-				

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TACO BELL
19000 NORTHLINE ROAD
SOUTHGATE, MI 48195


T40
OPEN KITCHEN
MODERN EXPLORER

SCOPE OF WORK MATRIX

SW1.0

PLOT DATE: 8/7/2018 9:00:29 AM