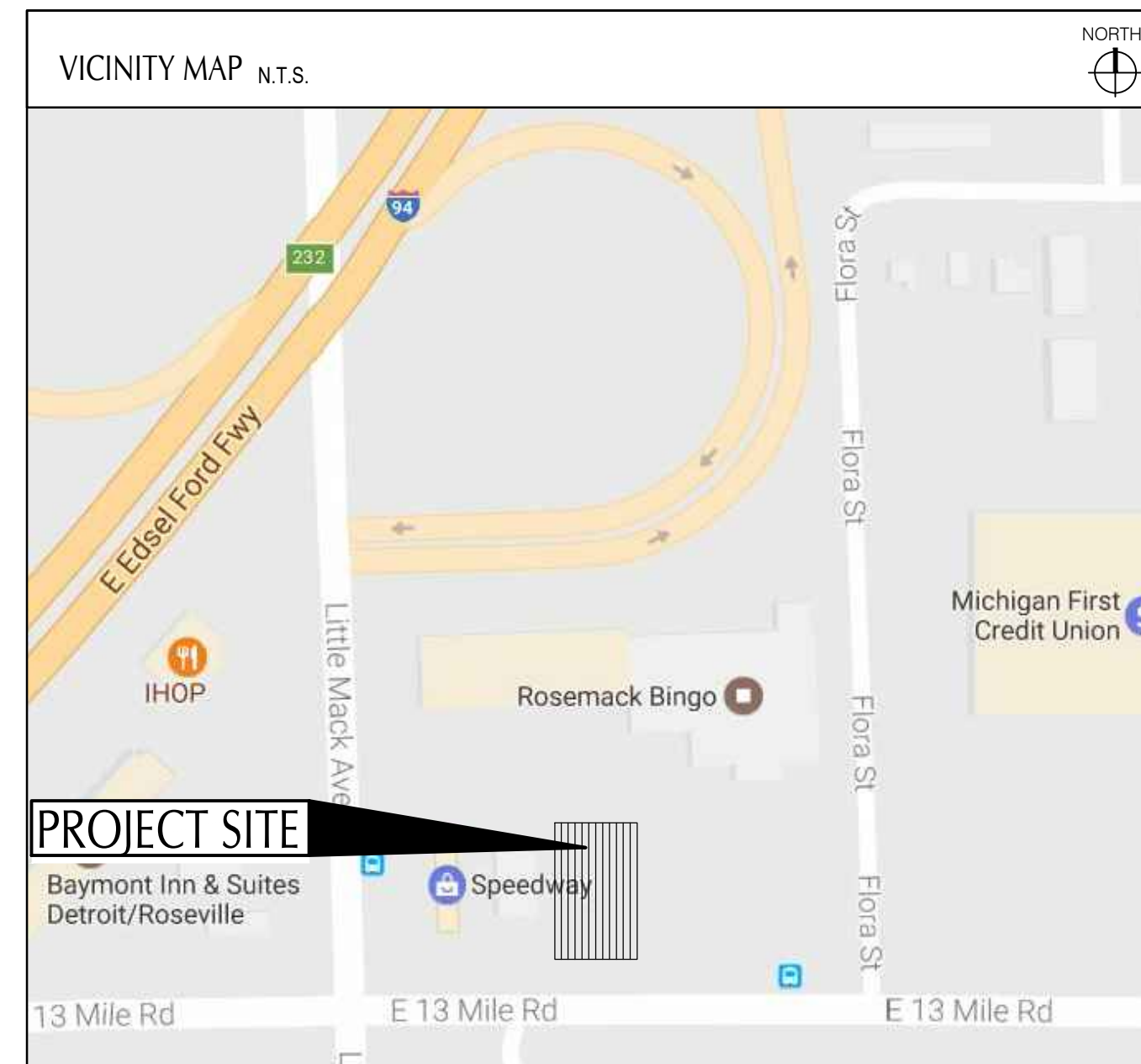


IMPROVEMENT PLANS

TACO BELL

20779 EAST 13 MILE ROAD
ROSEVILLE, MICHIGAN



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PROJECT DESCRIPTION

THIS SITE IS A HOME TO AN EXISTING ASPHALT PARKING LOT. THIS PARKING LOT WILL BE REMOVED AND REPLACED WITH A NEW TACO BELL BUILDING AND A NEW PARKING LOT TO SERVE THE NEW BUILDING. THIS SITE IS LOCATED AT 20733 EAST 13 MILE ROAD, ROSEVILLE, MICHIGAN AND IS ENTIRELY INSIDE MACOMB COUNTY.

APPROVALS

CITY OF ROSEVILLE
ENGINEERING DEPARTMENT

DATE: _____

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| Δ IFC | 05.31.18 |
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|----------------|---------------|
| CONTRACT DATE: | 01.08.18 |
| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

TACO BELL

20779 13 MILE RD.
ROSEVILLE, MI



T40
OPEN KITCHEN
MODERN EXPLORER

TITLE SHEET

T-001

PLOT DATE: 12.19.17

ALTA/NSPS LAND TITLE SURVEY

PART OF SECTION 3
TOWNSHIP 1 NORTH, RANGE 13 EAST
CITY OF ROSEVILLE,
MACOMB COUNTY, MICHIGAN

SCHEDULE B – SECTION II EXCEPTIONS (PER ALTA COMMITMENT FOR TITLE INSURANCE, ISSUED BY CHICAGO TITLE INSURANCE COMPANY, ORDER NO. 501017780NTS REVISION 3, EFFECTIVE DATE: MARCH 26, 2018)

3. TERMS, COVENANTS, AND CONDITIONS OF DETERMINATION OF NECESSITY AS SET FORTH BELOW:
RECORDING NO.: LIBER 1399, PAGE 397
RESPONSE: AS SHOWN.
4. COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH IN THE DOCUMENTS RECORDING NOS.: LIBER 2441, PAGE 592, AND LIBER 2441, PAGE 595.
RESPONSE: COVERS ENTIRE SUBJECT PROPERTY.
5. AN UNRECORDED LEASE WITH CERTAIN TERMS, COVENANTS, CONDITIONS AND PROVISIONS SET FORTH THEREIN AS DISCLOSED BY THE DOCUMENT ENTITLED: MEMORANDUM OF LEASE
LESSOR: 13 & LITTLE MACK CENTER, L.L.C., A MICHIGAN LIMITED LIABILITY COMPANY
LESSEE: FAMILY DOLLAR STORES OF MICHIGAN, INC., A MICHIGAN CORPORATION
RECORDING DATE: AUGUST 6, 2009
RECORDING NO.: LIBER 19900, PAGE 471.
RESPONSE: APPROXIMATELY AS SHOWN.
6. A LEASE WITH CERTAIN TERMS, COVENANTS, CONDITIONS AND PROVISIONS SET FORTH THEREIN.
DATED: JANUARY 31, 1978
LESSOR: ROSE MACK PLAZA ASSOCIATES, A MICHIGAN CO-PARTNERSHIP
LESSEE: THE KROGER CO., AN OHIO CORPORATION
RECORDING DATE: FEBRUARY 10, 1978
RECORDING NO.: LIBER 2911, PAGE 4
RESPONSE: COVERS ENTIRE SUBJECT PROPERTY.
8. RIGHT(S) OF WAY AND/OR EASEMENT(S) AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
GRANTED TO: DETROIT EDISON COMPANY
RECORDING NO.: LIBER 3055, PAGE 77
RESPONSE: APPROXIMATELY AS SHOWN.
9. RIGHT(S) OF WAY AND/OR EASEMENT(S) AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN DOCUMENTS:
IN FAVOR OF: ROSEVILLE CONSOLIDATED DRAIN DRAINAGE DISTRICT
RECORDING NOS: LIBER 3064, PAGE 446 AND LIBER 3389, PAGE 188.
RESPONSE: AS SHOWN.
10. RIGHT(S) OF WAY AND/OR EASEMENT(S) AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
GRANTED TO: CONSUMERS POWER COMPANY (NOW KNOWN AS CONSUMERS ENERGY)
RECORDING NO.: LIBER 3225, PAGE 101
RESPONSE: APPROXIMATELY AS SHOWN.



LOCATION MAP 

GENERAL NOTES

1. BEARINGS ARE BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FEET, NAD83.
2. VERTICAL DATUM IS NAVD88.
3. THE SUBJECT PROPERTY LIES WITHIN A NON-PRINTED FLOOD MAP BOUNDARY, FIRM RATE MAP NUMBER 26099C0343G.
4. THE SURVEYED PROPERTY CONTAINS 221,238 SQUARE FEET, OR 5.08 ACRES OF LAND, MORE OR LESS.
5. NO ZONING REPORT OR LETTER PROVIDED TO SURVEYOR AT THE DATE OF THIS SURVEY.
6. NO PARTY WALLS WERE OBSERVED OR DESIGNATED BY THE CLIENT AT THE DATE OF THE FIELD WORK.
7. WATER MAIN, STORM SEWER, AND SANITARY SEWER UTILITY STRUCTURES HAVE BEEN FIELD LOCATED WHERE VISIBLE. UTILITY AND AS-BUILT MAPS HAVE BEEN REQUESTED AND SOME MAPS HAVE BEEN RECEIVED AT DATE OF THIS SURVEY. FRANCHISE UTILITY MAPS HAVE BEEN REQUESTED FROM THE APPROPRIATE FRANCHISE COMPANY, BUT NOT ALL MAPS HAVE BEEN RECEIVED AT DATE OF SURVEY. FRANCHISE UTILITY STRUCTURES HAVE BEEN FIELD LOCATED WHERE VISIBLE.

NOTE: THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED.


NOTE TO THE CLIENT, INSURER, AND LENDER – WITH REGARD TO TABLE A, ITEM 11, SOURCE INFORMATION FROM PLANS AND MARKINGS WILL BE COMBINED WITH OBSERVED EVIDENCE OF UTILITIES PURSUANT TO SECTION 5.E.IV. TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.
8. NO DELINEATION OF WETLANDS WERE OBSERVED AT THE DATE OF THE FIELD WORK.

CERTIFICATION:

TO: TACO BELL OF AMERICA, LLC, A DELAWARE LIMITED LIABILITY COMPANY, AND ITS AFFILIATES
CHICAGO TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 7(b)(1), 8, 9, 10(a), 10(b), 11, 13, 18, 19, 20, AND 21 OF TABLE A THEREOF. FIELD WORK WAS COMPLETED ON MAY 11, 2017.

DATE OF PLAT OR MAP: MAY 19, 2017


MICHAEL D. EMBREE
REGISTERED PROFESSIONAL SURVEYOR NO. 56860
EMBREE@ATWELL-GROUP.COM
TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MICHIGAN 48076
248.447.2000

05/30/2018
DATE

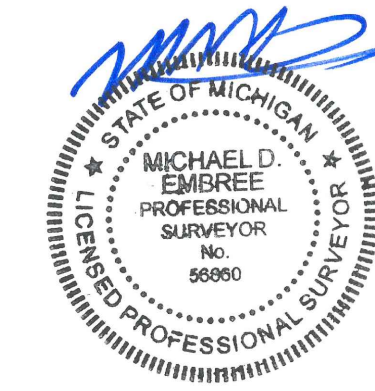


EXHIBIT "A" LEGAL DESCRIPTION (PER ALTA COMMITMENT FOR TITLE INSURANCE, ISSUED BY CHICAGO TITLE INSURANCE COMPANY, ORDER NO. 501017780NTS REVISION 3, EFFECTIVE DATE: MARCH 26, 2018)

LAND SITUATED IN THE CITY OF ROSEVILLE, COUNTY OF MACOMB AND STATE OF MICHIGAN, DESCRIBED AS FOLLOWS:

PARCEL B:

A PARCEL OF LAND LOCATED IN THE SOUTHWEST 1/4 OF SECTION 3, T1N, R13E, CITY OF ROSEVILLE, MACOMB COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 3, TOWN 1 NORTH, RANGE 13 EAST, CITY OF ROSEVILLE, MACOMB COUNTY, MICHIGAN, LYING IN LITTLE MACK AVENUE (120 FEET WIDE); THENCE N02°55'17"W (RECORDED AS N01°55'27"W) 260.00 FEET ALONG THE WEST LINE OF SAID SECTION 3; THENCE N89°25'34"E (RECORDED AS S89°34'36"E) 260.00 FEET; THENCE S02°55'17"E (RECORDED AS N01°55'27"W) 9.81 FEET FOR A PLACE OF BEGINNING; THENCE S89°34'36"E 147.79 FEET; THENCE S00°25'24"W 187.49 FEET; THENCE S89°25'34"W (RECORDED AS N89°34'36"W) 136.71 FEET ALONG THE NORTH LINE OF 13 MILE ROAD (120 FEET WIDE); THENCE N02°55'17"W (RECORDED AS N01°55'27"W) 190.19 FEET TO THE PLACE OF BEGINNING.

ATWELL, LLC
TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MI 48076
248-447-2000



PARCEL ADDRESS: 20733-20791 13 MILE ROAD, ROSEVILLE, MICHIGAN
PARCEL AREA: 221,238 S.F.
ENTITY NUMBER: 442877
SITE NUMBER: 312262

SCALE: NONE DRAWN BY: JR SHEET: 1 OF 3
DATE: 05/18/2017 CHECKED BY: ME GPD JOB NO.: 17001286
REV: 05/30/2018



BASIS OF BEARING:

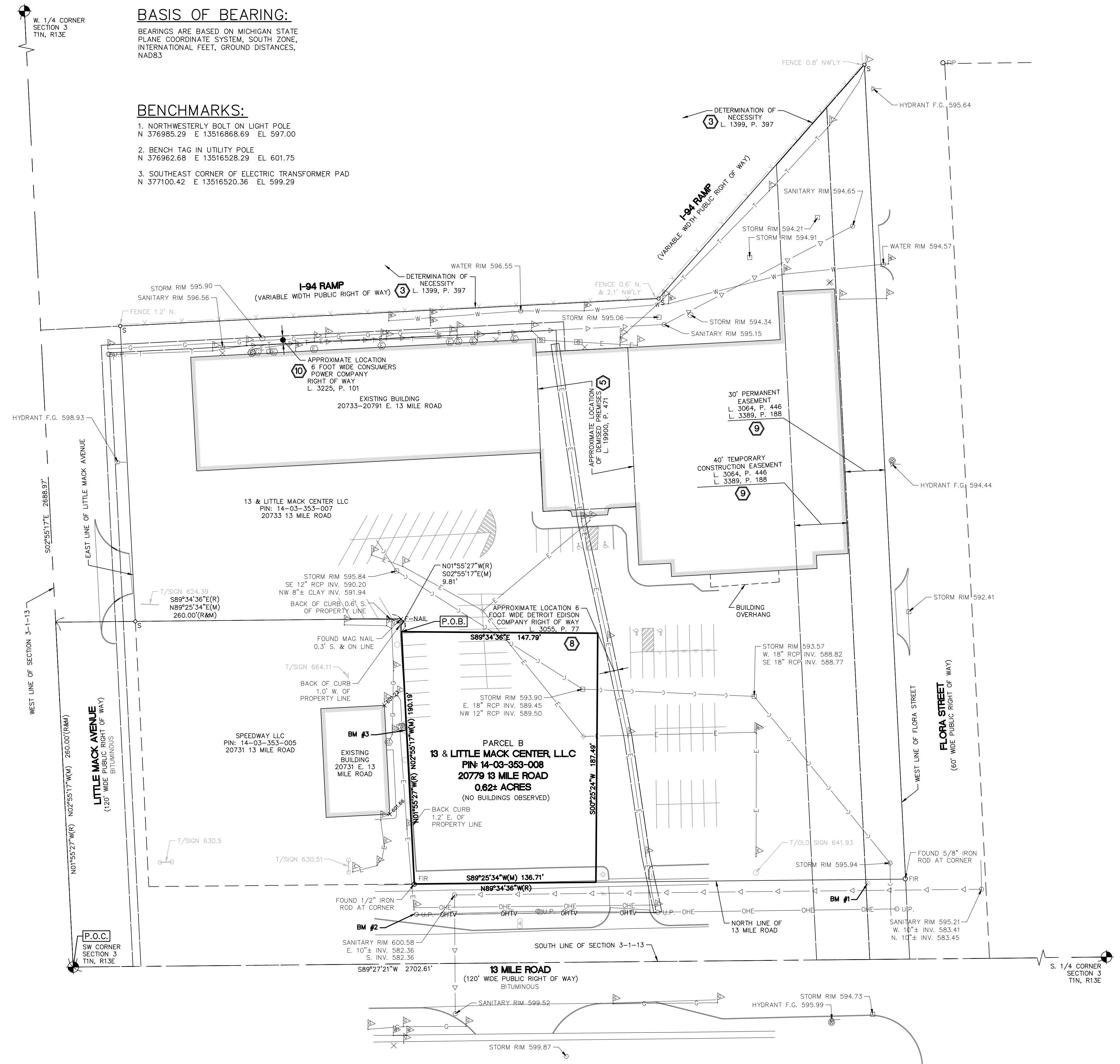
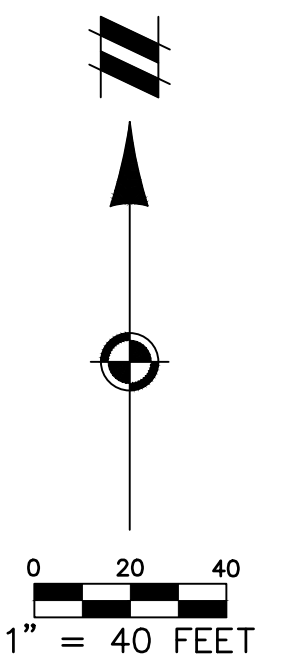
BEARINGS ARE BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FEET, GROUND DISTANCES, NAD83

BENCHMARKS:

1. NORTHWESTERLY BOLT ON LIGHT POLE
N 376985.29 E 13516868.69 EL 597.00
2. BENCH TAG IN UTILITY POLE
N 376962.68 E 13516528.29 EL 601.75
3. SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD
N 377100.42 E 13516520.36 EL 599.29

LEGEND:

| | |
|--|---------------------------------------|
| | SECTION CORNER |
| | FOUND MAG NAIL |
| | FOUND IRON PIPE |
| | FOUND IRON ROD |
| | SET CAPPED IRON ROD |
| | EXISTING SIGN |
| | EXISTING BOLLARD |
| | EXISTING MANHOLE/CATCH BASIN |
| | EXISTING WATER VALVE |
| | EXISTING HYDRANT WITH SHUTOFF |
| | EXISTING UTILITY POLE |
| | EXISTING ELECTRIC TRANSFORMER |
| | EXISTING LIGHT POLE |
| | EXISTING ELECTRIC METER |
| | EXISTING ELECTRIC RISER |
| | EXISTING TELEPHONE RISER |
| | EXISTING GAS METER |
| | EXISTING GROUND ELEVATION |
| | WIRE SAG ELEVATION |
| | WIRE POINT OF ATTACHMENT ELEVATION |
| | EXISTING UNDERGROUND GAS MARKER |
| | EXISTING UNDERGROUND ELECTRIC MARKER |
| | EXISTING UNDERGROUND TELEPHONE MARKER |
| | EXISTING UNDERGROUND WATER MARKER |
| | BOUNDARY LINE |
| | BOUNDARY ADJACENT LINE |
| | EASEMENT LINE |
| | SECTION LINE |
| | OVERHEAD COMMUNICATIONS LINE |
| | OVERHEAD ELECTRIC LINE |
| | UNDERGROUND ELECTRIC LINE |
| | UNDERGROUND STORM LINE |
| | UNDERGROUND SANITARY LINE |
| | UNDERGROUND GAS LINE |
| | UNDERGROUND WATER LINE |
| | UNDERGROUND TELEPHONE LINE |
| | EXISTING FENCE |
| | EXISTING CURB WITH DUBDOWN |
| | EXISTING GROUND CONTOUR |
| | EXISTING BUILDING |
| | SCHEDULE B SECTION II EXCEPTION |
| | RECORD |
| | MEASURED |



ATWELL, LLC
TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MI 48076
248-447-2000

PARCEL ADDRESS: 20733-20791 13 MILE ROAD, ROSEVILLE, MICHIGAN
PARCEL AREA: 221,238 S.F.
ENTITY NUMBER: 442877
SITE NUMBER: 312262

SCALE: 1" = 40' DRAWN BY: JR SHEET: 2 OF 3
DATE: 05/18/2017 CHECKED BY: ME GPD JOB NO.: 17001286
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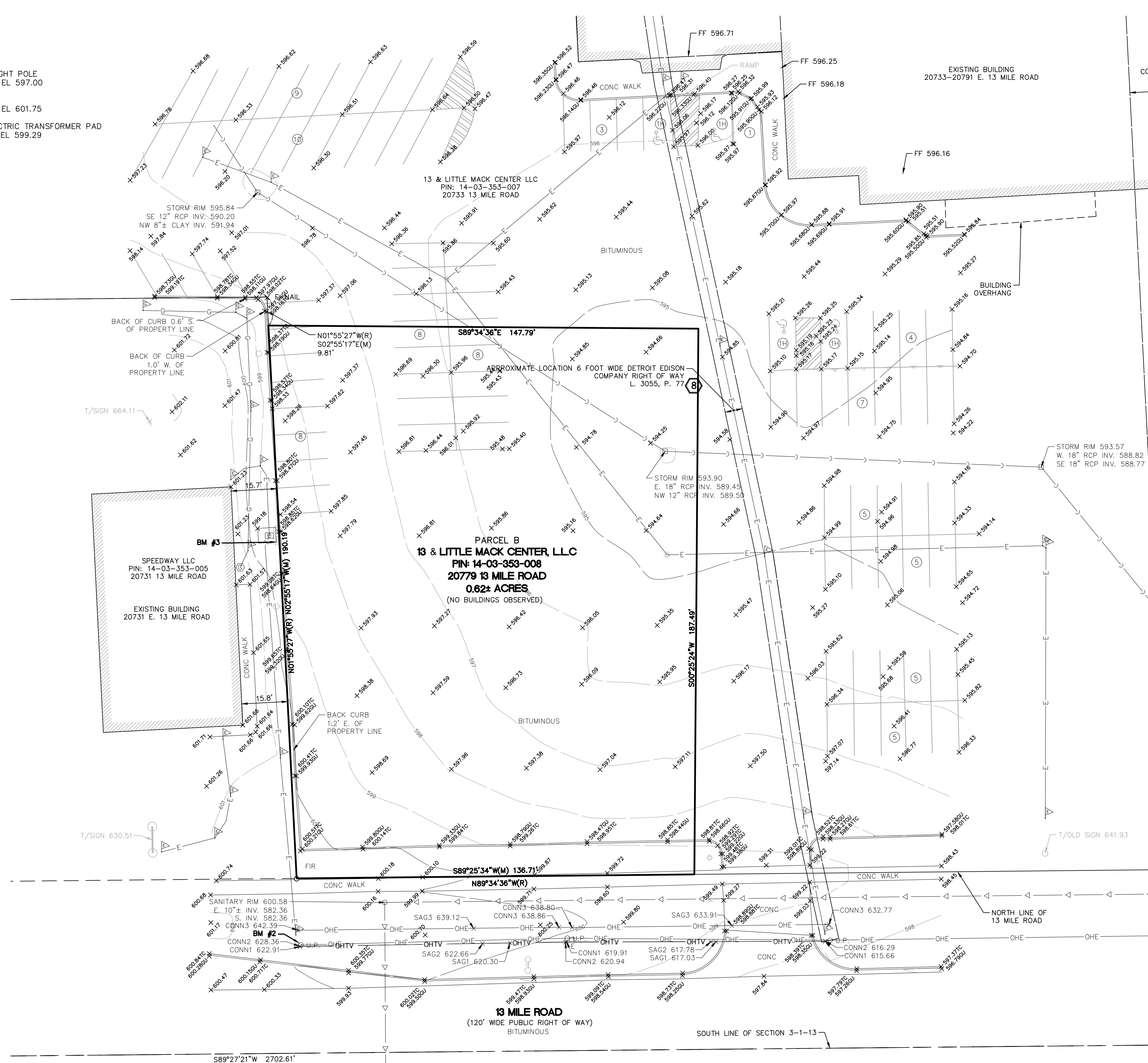


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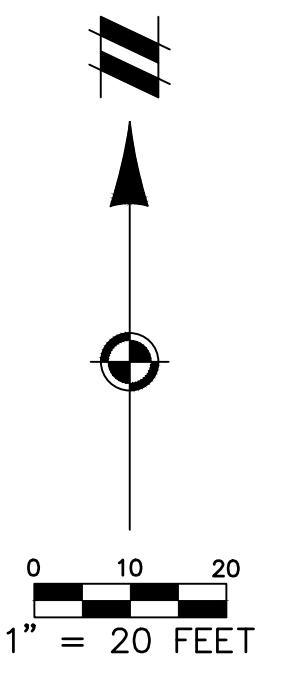
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N 377100.42 E 13516520.36 EL 599.29



LEGEND:

- ⊗ F SECTION CORNER
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- S SET CAPPED IRON ROD
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- Ⓟ SCHEDULE B SECTION II EXCEPTION
- (R) RECORD
- (M) MEASURED



ATWELL, LLC
TWO TOWNE SQUARE, SUITE 700
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248-447-2000

TACO
IRBLL

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SCALE: 1" = 20' DRAWN BY: JR SHEET: 3 OF 3
DATE: 05/18/2017 CHECKED BY: ME GPD JOB NO.: 17001286
REV: 05/30/2018

ATWELL
866.850.4200 www.atwell-group.com

| DEMOLITION NOTES | |
|---|--|
| 1. DEMOLITION INCLUDES THE FOLLOWING: | |
| 1.A. TRANSFER BENCHMARK CONTROL TO NEW LOCATIONS OUTSIDE THE DISTURBED AREA PRIOR TO COMMENCING DEMOLITION OPERATIONS (WHEN APPLICABLE). | |
| 1.B. DEMOLITION AND REMOVAL OF SITE IMPROVEMENTS. | |
| 1.C. DISCONNECTING, CAPPING OR SEALING, AND ABANDONING/REMOVING SITE UTILITIES IN PLACE (WHICHEVER IS APPLICABLE). | |
| 2. REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN. | |
| 3. REMOVE, REINSTALL, AND RELOCATE: REMOVE ITEMS INDICATED; CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE, STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN LOCATIONS INDICATED. | |
| 4. EXISTING TO REMAIN: PROTECT ITEMS INDICATED TO REMAIN AGAINST DAMAGE AND SOILING THROUGHOUT CONSTRUCTION. WHEN PERMITTED BY THE ENGINEER, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION THROUGHOUT CONSTRUCTION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS. | |
| 5. CONTRACTOR SHALL SCHEDULE DEMOLITION ACTIVITIES WITH THE CONSTRUCTION/PROJECT MANAGER INCLUDING THE FOLLOWING: | |
| 5.A. DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR EACH ACTIVITY. | |
| 5.B. DATES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES. | |
| 5.C. IDENTIFY AND ACCURATELY LOCATE UTILITIES AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL, OR MECHANICAL CONDITIONS. | |
| 6. REGULATORY REQUIREMENTS: COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION. | |
| 7. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE PERMITTED. | |
| 8. OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE. | |
| 9. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE THROUGHOUT CONSTRUCTION OPERATIONS. | |
| 9.A. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY ENGINEER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND TO GOVERNING AUTHORITIES. | |
| 10. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING. | |
| 11. UTILITY REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES SERVING THE SITE. | |
| 11.A. ARRANGE TO SHUT OFF AND CAP UTILITIES WITH UTILITY COMPANIES AND FOLLOW THEIR RESPECTIVE UTILITY KILL AND CAP POLICIES. | |
| 12. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA. | |
| 12.A. ERECT TEMPORARY PROTECTION, BARRICADES AS PER LOCAL GOVERNING AUTHORITIES. | |
| 12.B. PROTECT EXISTING SITE IMPROVEMENTS AND APPURTENANCES TO REMAIN. | |
| 13. EXPLOSIVES: USE OF EXPLOSIVES WILL NOT BE PERMITTED. | |
| 14. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. | |
| 15. CLEAN ADJACENT BUILDINGS AND IMPROVEMENT OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION. | |
| 16. DAMAGES: PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY DEMOLITION OPERATIONS AT THE CONTRACTORS COST. | |
| 17. GENERAL: PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. | |
| 18. BURNING: DO NOT BURN DEMOLISHED MATERIALS. | |
| 19. ASBESTOS: IT IS NOT EXPECTED THAT ASBESTOS WILL BE ENCOUNTERED IN THE COURSE OF THIS CONTRACT. IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED, DO NOT DISTURB THE MATERIALS. IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER. | |
| 20. SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE OR ADJACENT STRUCTURES THROUGHOUT CONSTRUCTION. | |
| 21. BUILDING PAD DEMOLITION: DEMOLISH BUILDING PAD COMPLETELY AND REMOVE FROM THE SITE. USE METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS: | |
| 21.A. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. | |
| 21.B. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS. | |
| 21.C. BREAK UP AND REMOVE CONCRETE SLABS ON GRADE. | |
| 22. BELOW-GRADE DEMOLITION: DEMOLISH FOUNDATION WALLS AND OTHER BELOW-GRADE DEMOLITION, AS FOLLOWS: | |
| 22.A. COMPLETELY REMOVE BELOW-GRADE DEMOLITION, INCLUDING FOUNDATION WALLS FOOTINGS, AND BELOW GRADE CONCRETE SLABS. | |
| 23. FILLING BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF BUILDINGS AND PAVEMENTS WITH SOIL MATERIALS ACCORDING TO REQUIREMENTS PER SOILS REPORT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO FILLING ANY AREAS. CONTRACTOR SHALL CONTACT ENGINEER TO OBSERVE FILL PROCEDURES. | |
| 24. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. | |
| 24.A. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS. | |
| 25. CONTRACTOR TO SAWCUT EXISTING PAVEMENT TO REMAIN PRIOR TO CURB, GUTTER, PAVEMENT, ETC REMOVAL. | |

| GENERAL PLAN NOTES | |
|--|--|
| 1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. | |
| 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION/PROJECT MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT AND PLANS, ETC. | |
| 3. THE A.L.T.A. SURVEY BY ATWELL, DATED 05/18/2017 SHALL BE CONSIDERED A PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING IMPROVEMENTS PER THESE PLANS. | |
| 4. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS AND CITY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE. | |
| 5. ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON A.L.T.A. SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN. | |
| 6. ALL WORK WITHIN THE RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION AND SPECIFICATIONS. | |
| 7. CONTRACTOR SHALL COORDINATE ANY MAINTENANCE OF TRAFFIC WITH THE OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION. | |
| 8. CONTRACTOR SHALL AT ALL TIMES ENSURE THAT SWPP MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION. (SEE SHEET C-131). | |
| 9. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS. AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE. | |
| 10. THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL EXPLORATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLAN AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING AS REQUIRED ABOVE, OF SUCH DIFFERING CONDITIONS. | |
| 11. THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR THE ENGINEER AND THE SUBCONTRACTOR. | |
| 12. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFETY MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS. | |
| 13. THE CONTRACTOR SHALL RUN AN INDEPENDENT VERTICAL CONTROL TRAVERSE TO CHECK BENCHMARKS AND A HORIZONTAL CONTROL TRAVERSE THROUGH THE REFERENCED PROJECT CONTROL DATUM TO CONFIRM GEOMETRIC DATA. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION. | |

| SITE PLAN NOTES | |
|--|--|
| 1. ALL DIMENSIONS AND RADII ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED. | |
| 2. ALL EXTERIOR SITE SPECIFIC PORTLAND CONCRETE CEMENT (I.E. SIDEWALK, PAVEMENT OR CURBING) SHALL MEET THE LATEST EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS USED, MIXING, TRANSPORTATION, PLACEMENT AND CURING. THE MINIMUM STRENGTH FOR PCC ALLOWED IS 4000 PSI AT 28 DAY STRENGTH. AIR ENTRAINMENT SHALL BE IN ACCORDANCE WITH DOT SPECIFICATIONS FOR EXTERIOR CONCRETE. (CONTRACTOR SHALL REFER TO DETAILS WITHIN THIS DRAWING SET FOR ANY VARIATIONS TO THIS SPECIFICATION)." | |
| 3. ALL EXTERIOR CURB SHALL HAVE EXPANSION JOINTS AT 100'-0" O.C. AND CONTROL JOINTS AT 10'-0" O.C. (UNLESS OTHERWISE SPECIFIED ON THE DETAIL SHEETS) ALL EXTERIOR WALK SHALL HAVE EXPANSION JOINTS AT 20'-0" O.C. AND CONTROL JOINTS @ 5'-0" MAX. O.C. (UNLESS OTHERWISE SPECIFIED ON THE DETAIL SHEETS). | |
| 4. ALL CONCRETE SHALL HAVE A MEDIUM TRANSVERSE FINISH. | |


| GRADING PLAN NOTES | |
|--|--|
| 1. BEFORE STARTING GRADING OPERATIONS, SEE SHEET C-131 THROUGH C-134, STORMWATER POLLUTION PREVENTION PLAN NOTES AND DETAILS (SWPP). | |
| 2. BEFORE STARTING GRADING OPERATIONS, SEE LANDSCAPE PLAN L-101 AND SOILS REPORT FOR TREATMENT OF EXISTING GRADE. | |
| 3. PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILTATION FROM LEAVING THE SITE AT ALL TIMES. | |
| 4. STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS. STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. SEE GEOTECHNICAL REPORT FOR STRIPPING AND TOPSOIL REQUIREMENTS. | |
| 5. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT BY INTERTEK PSI, DATED 08/24/2017 AND REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. UNLESS OTHERWISE SPECIFIED IN THE PLANS, SPECIFICATIONS, OR SOILS REPORT THE SITE GRADING, EXCAVATION, AND EMBANKMENT SHALL BE IN ACCORDANCE WITH THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. | |
| 6. AT A MINIMUM ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST D-698. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND RETAIN A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO ENSURE COMPLIANCE WITH THE GEOTECHNICAL REPORT, MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS, AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE REQUIREMENT TO HIRE AN INDEPENDENT GEOTECHNICAL ENGINEER MAY BE WAIVED IF AN OWNER HIRED GEOTECHNICAL ENGINEER IS ON-SITE. THE OWNER RESERVES THE RIGHT TO REQUEST COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. NOTIFY PROJECT CONSTRUCTION MANAGER IF ANY UNSUITABLE SOILS ARE FOUND. | |
| 7. FOLLOWING GRADING OF SUBSOIL TO SUBGRADE ELEVATIONS THE CONTRACTOR SHALL PLACE TOPSOIL TO A 6" DEPTH IN ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED. SMOOTHLY FINISH GRADE TO MEET SURROUNDING LAWN AREAS AND ENSURE POSITIVE DRAINAGE. STOCKPILED TOPSOIL SHALL BE SCREENED PRIOR TO RESPREADING. TOPSOIL SHALL BE FREE OF SUBSOIL, DEBRIS, BRUSH AND STONES LARGER THAN 1" IN ANY DIMENSION. ROCK HOUNDING IN PLACE WILL NOT BE PERMITTED. ALL EXCESS TOPSOIL SHALL BE LEGALLY DISPOSED OF OFF SITE. | |
| 8. ELEVATIONS GIVEN ARE AT BOTTOM FACE OF CURB AND/OR FINISHED PAVEMENT GRADE UNLESS OTHERWISE SPECIFIED ON GRADING PLAN. ALL PAVEMENT SHALL BE LAID ON A STRAIGHT, EVEN, AND UNIFORM GRADE WITH A MINIMUM OF 1% SLOPE TOWARD THE COLLECTION POINTS UNLESS OTHERWISE SPECIFIED ON THE GRADING PLAN. DO NOT ALLOW NEGATIVE GRADES OR PONDING OF WATER. | |
| 9. SLOPE BUILDING SIDEWALK AWAY FROM THE BUILDING AT A MAXIMUM OF 1.5% (UNLESS OTHERWISE INDICATED ON SHEET C-121). | |
| 10. CONTRACTOR SHALL PROVIDE BUTT END JOINT TO MEET EXISTING PAVEMENT IN ELEVATION AT DRIVE RETURNS AND ENSURE POSITIVE DRAINAGE. | |

| UTILITY NOTES | |
|---|--|
| GENERAL UTILITY NOTES | |
| 1. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IMMEDIATELY AFTER BID IS AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER OF ANY TIME FRAMES ESTABLISHED BY UTILITY COMPANIES WHICH WILL NOT MEET OPENING DATE. | |
| 2. CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL PROPOSED UTILITIES (SEE SHEET C-141). PRIOR TO ANY CONSTRUCTION, CONTRACTOR TO ENSURE EXISTING UTILITIES ARE IN GOOD CONDITION AND FREE FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR LOCATION DIFFER FROM WHAT IS SHOWN ON SHEET C-141, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IMMEDIATELY. | |
| 3. WHERE PLANS PROVIDE FOR PROPOSED WORK TO BE CONNECTED TO, OR CROSS OVER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING THE PROPOSED WORK. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE RESULTS IN A CHANGE IN THE PLAN, THE CONSTRUCTION MANAGER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED WORK WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM. | |
| STORM SEWER NOTES | |
| 1. ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH INTERIOR PIPE (UNLESS OTHERWISE NOTED ON PLAN). HDPE PIPE SHALL CONFORM TO ASTM D 3350 AND JOINTS PER ASTM F477. STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE PVC, SDR 35, PER ASTM D 3034 AND JOINTS PER ASTM D 3212 (OR APPROVED EQUAL). | |
| 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION. COORDINATE ALL WORK WITH ROBERT DEBRUYN OF THE CITY OF ROSEVILLE ENGINEERING DEPARTMENT @ 586.445.5445. | |
| 3. ALL DRAINAGE STRUCTURES AT PAVEMENT SUMPS SHALL HAVE FINGER DRAINS PER DETAIL SHEET C-502. | |

| UTILITY NOTES (CONTINUED) | |
|--|--|
| SANITARY SEWER NOTES | |
| 1. SANITARY SEWER LATERAL INVERT AT BUILDING SHALL BE A MINIMUM OF 5.25' BELOW FINISH FLOOR. | |
| 2. CLEAN-OUTS TO BE INSTALLED AT ALL PIPE BENDS AND ANGLES, UNLESS A MANHOLE IS INDICATED. | |
| 3. THE CONTRACTOR SHALL HIRE A LOCAL PLUMBER LICENSED WITH THE LOCAL SANITARY JURISDICTION TO MAKE ALL CONNECTIONS FROM THE BUILDING TO THE EXISTING SANITARY SEWER. CONTRACTOR SHALL SECURE A SANITARY SEWER CONNECTION PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTORS PRICE FOR SANITARY SEWER INSTALLATION SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE LOCAL SANITARY JURISDICTION TO PROVIDE A COMPLETE WORKING SERVICE. COORDINATE ALL WORK WITH BRIAN SCHULTE OF THE CITY OF ROSEVILLE, ENGINEERING DEPARTMENT @ 586.445.5458. | |
| 4. ALL SANITARY PIPE MATERIAL SHALL BE 6" PVC, SDR 35 CONFORMING TO ASTM D 3034, WITH JOINTS PER ASTM 3212. | |
| WATER NOTES | |
| 1. WATER SERVICE MATERIALS SHALL BE COPPER TYPE "K" UNLESS OTHERWISE NOTED ON PLANS. DIAMETER SHALL BE AS NOTED ON THESE PLANS (SHEET C-141) AND SHALL BE INSTALLED WITH A MINIMUM COVER OF 42" OR BELOW FROST LINE, WHICHEVER IS GREATER. | |
| 2. CONSTRUCTION AND MATERIALS PROVIDED BY THE WATER COMPANY: | |
| • TAP MAIN. | |
| • FURNISH AND INSTALL CURB STOP & BOX AND WATER METER. | |
| • COORDINATE ALL WORK WITH THE BRIAN SCHULTE OF THE CITY OF ROSEVILLE, ENGINEERING DEPARTMENT @ 586.445.5458. | |
| 3. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR: | |
| • FURNISH AND INSTALL COPPER SERVICE LINE FROM METER TO BUILDING. | |
| • ALL TRENCHING AND BACKFILLING. | |
| 4. CONTRACTOR SHALL PROVIDE 100% IRRIGATION PER CONSTRUCTION/PROJECT MANAGER AND CITY REQUIREMENTS. COORDINATE SLEEVE LOCATIONS WITH THE CONSTRUCTION/PROJECT MANAGER AND IRRIGATION CONSULTANT PRIOR TO PAVEMENT AND CURB INSTALLATION. | |
| ELECTRICAL NOTES | |
| 1. SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING AND LUMINAIRE DESCRIPTION. | |
| 2. SEE ELECTRICAL SHEETS FOR ALL DEDICATED EXTERIOR BUILDING AND SIGN LIGHTING SCHEDULES. ELECTRICAL CONTRACTOR SHALL BALANCE LOADS WHERE REQUIRED. | |
| 3. ALL PARKING LOT LIGHTING WIRING SHALL BE NO. 10 AWG IN 3/4" PVC DUCT. | |
| 4. WHEN INSTALLING VERTICAL SWEEPS FOR UTILITY CONDUITS, CONTRACTOR SHALL USE 4" SCHD. 80 DUCTS. | |
| 5. CONSTRUCTION AND MATERIALS PROVIDED BY THE ELECTRIC COMPANY: | |
| • MAKE APPROPRIATE PRIMARY AND SECONDARY CONNECTIONS AT EXISTING TRANSFORMER. | |
| • FURNISH AND INSTALL METER. | |
| • COORDINATE ALL WORK WITH PAMULA WOODSIDE OF DTE ENERGY @ 313.235.1555. | |
| 6. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR: | |
| • FURNISH AND INSTALL 1-4" PVC SCHEDULE 40 DUCTS, INCLUDING ALL TRENCHING AND BACKFILLING FROM TRANSFORMER TO BUILDING. | |
| • FURNISH AND INSTALL SECONDARY WIRE FROM THE BUILDING TO THE TRANSFORMER. | |
| • FURNISH AND INSTALL METER BASE AND CT CABINET. | |
| • INCLUDE ALL FEES REQUIRED BY ELECTRIC COMPANY TO PROVIDE A COMPLETE WORKING SERVICE. | |
| TELEPHONE NOTES | |
| 1. CONSTRUCTION AND MATERIALS PROVIDED BY THE TELEPHONE COMPANY: | |
| • COORDINATE ALL WORK WITH KEN DANDRON OF AT&T @ 586.446.1039. | |
| • PROVIDE AND INSTALL WIRING TO EXISTING SERVICE MANHOLE. | |
| 2. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR: | |
| • FURNISH AND INSTALL ONE 4" PVC SCH. 40 CONDUIT WITH PULLWIRE FROM THE BUILDING TO EXISTING SERVICE. | |
| • ALL TRENCHING AND BACKFILLING. | |
| • INCLUDE ALL FEES REQUIRED BY TELEPHONE COMPANY TO PROVIDE A COMPLETE WORKING SERVICE. | |
| 3. CONTRACTOR SHALL COORDINATE THE NUMBER OF LINES REQUIRED WITH THE CONSTRUCTION/ PROJECT MANAGER. | |
| NATURAL GAS NOTES | |
| 1. CONSTRUCTION AND MATERIALS PROVIDED BY THE GAS COMPANY: | |
| • TAP MAIN. | |
| • FURNISH AND INSTALL SERVICE FROM TAP TO BUILDING. | |
| • ALL TRENCHING AND BACKFILLING. | |
| • FURNISH AND INSTALL METER. | |
| • COORDINATE ALL WORK WITH RUBEN CORDOVA OF CONSUMER ENERGY @ 248-769-5707. | |
| 2. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR: | |
| • FURNISH AND INSTALL SERVICE FROM METER TO BUILDING AND THROUGHOUT THE BUILDING. | |
| • CONTRACTOR SHALL INCLUDE ALL FEES REQUIRED BY THE GAS COMPANY TO PROVIDE A COMPLETE WORKING SERVICE. | |
| • CONDUIT BY GC. | |
| CABLE NOTES | |
| 1. INSTALL 4" CABLE TVSS CONDUIT PER CITY, STATE OR NEC CODE, WHICHEVER IS MORE STRINGENT (FOR FUTURE USE). SEE ELECTRICAL SHEETS FOR DETAILS. TERMINATE CABLE CONDUIT AT RIGHT-OF-WAY. PROVIDE END CAP AND NOTE LOCATION ON AS-BUILT DRAWINGS. | |

| GENERAL LEGEND | |
|-----------------|--|
| EXISTING | |
| | EXISTING IRON PIN FOUND AS NOTED |
| | EXISTING LIGHT POLE |
| | EXISTING POWER POLE |
| | EXISTING POWER & LIGHT POLE |
| | EXISTING TRANSFORMER |
| | EXISTING ELECTRIC METER |
| | EXISTING SANITARY MANHOLE |
| | EXISTING CATCH BASIN |
| | EXISTING POST OR BOLLARD |
| | EXISTING PROPERTY LINE |
| | EXISTING RIGHT OF WAY LINE |
| | EXISTING CENTER LINE |
| | EXISTING OVERHEAD UTILITY LINES |
| | EXISTING UNDERGROUND GAS LINES |
| | EXISTING UNDERGROUND STORM LINES |
| | EXISTING UNDERGROUND SANITARY LINES |
| | EXISTING UNDERGROUND WATER LINES |
| | EXISTING UNDERGROUND ELECTRIC LINES |
| | EXISTING OVERHEAD CABLE LINES |
| | EXISTING BUILDING/STRUCTURE |
| | EXISTING CURB |
| | EXISTING CURB & GUTTER |
| | EXISTING CONTOUR |
| | EXISTING DETROIT EDISON EASEMENT |
| PROPOSED | |
| | PROPOSED CATCH BASIN |
| | PROPOSED STORM MANHOLE |
| | PROPOSED CLEAN OUT |
| | PROPOSED SANITARY MANHOLE |
| | PROPOSED EXTERIOR GREASE INTERCEPTOR |
| | PROPOSED LIGHT POLE |
| | PROPOSED EDGE OF PAVEMENT |
| | PROPOSED CURB |
| | PROPOSED TRAFFIC SIGN |
| | PROPOSED PAINTED ADA SYMBOL |
| | PROPOSED DIRECTIONAL PAVEMENT MARKINGS |
| | PROPOSED TRANSVERSE STRIPING |
| | PROPOSED CROSSWALK STRIPING |
| | PROPOSED CONCRETE |
| | PROPOSED STANDARD DUTY ASPHALT |

PLAN REPRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI D (22"x34") SHEETS, REFER TO GRAPHIC SCALE.




520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

| | |
|----------------|---------------|
| CONTRACT DATE: | 01.08.18 |
| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

TACO BELL

20779 13 MILE RD.
ROSEVILLE, MI



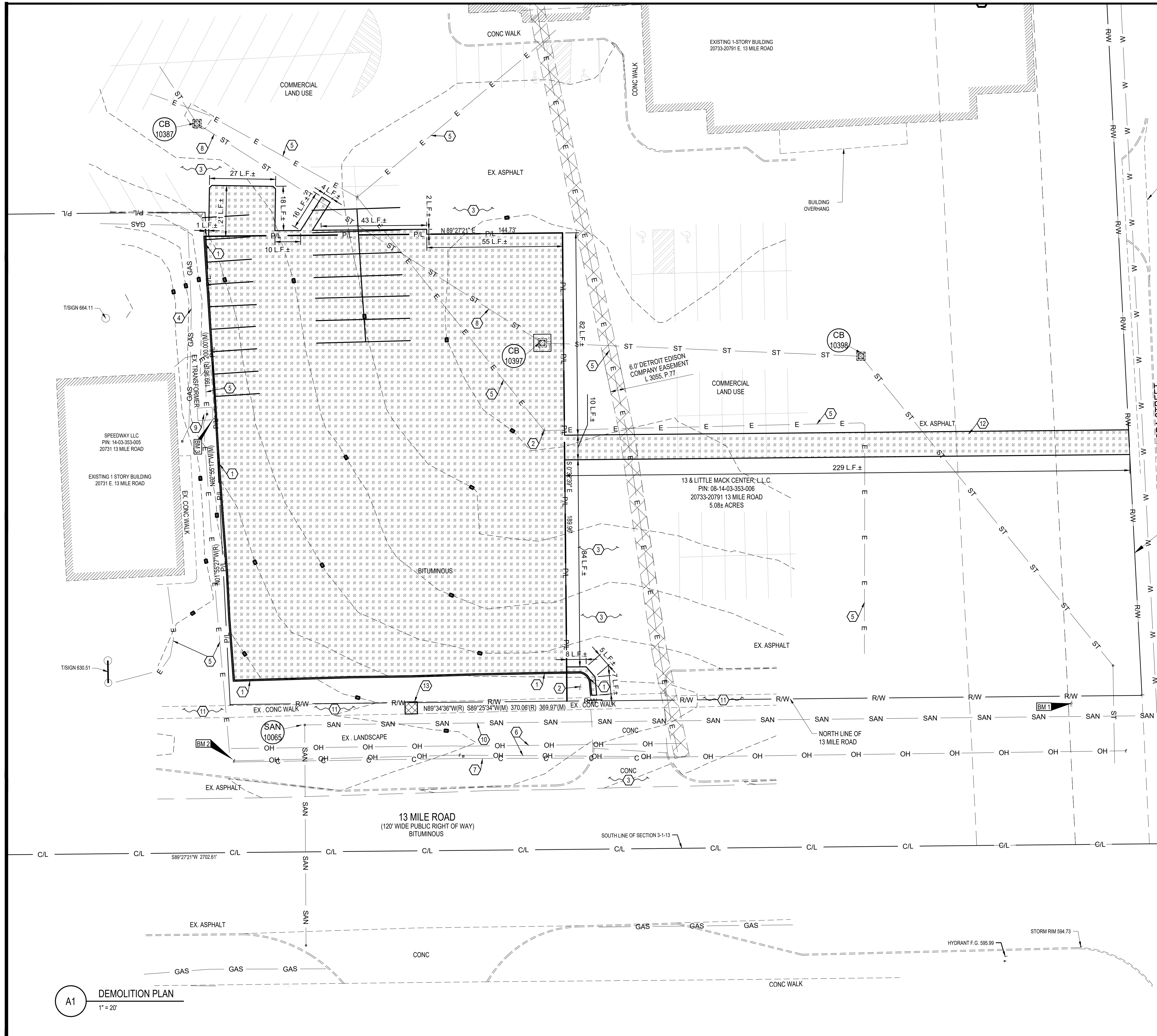
T40

OPEN KITCHEN
MODERN EXPLORER

GENERAL NOTES

C-001

PLOT DATE: 12.19.17



PLAN KEYNOTES #

- EXISTING CURB TO BE REMOVED.
- EXISTING LIGHT POLE AND FOUNDATION TO BE REMOVE AND PULL BOX TO BE INSTALLED FOR CONTINUATION OF ELECTRIC CABLES.
- EXISTING PAVEMENT TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING GAS LINE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING ELECTRIC LINE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING OVERHEAD ELECTRIC LINE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING CABLE LINE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING STORM SEWER TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING ELECTRIC TRANSFORMER TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING SANITARY SEWER TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING WALK TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- PROPOSED TRENCH REPAIR FOR WATER LINE INSTALLATION. MATCH EXISTING PAVEMENT THICKNESS.
- EXISTING SIDEWALK TO BE REMOVED. REMOVE SIDEWALK TO THE NEAREST JOINT.

DEMOLITION NOTE:

ALL EXISTING SITE AND SURROUNDING FEATURES SUCH AS UTILITIES, PAVEMENT, CURB, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE, OR ARE REQUIRED TO BE MODIFIED OR REMOVED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.

NOTE:

CONTRACTOR SHALL OBTAIN TEMPORARY WORK EASEMENT FOR PROPOSED OFF-SITE IMPROVEMENTS.

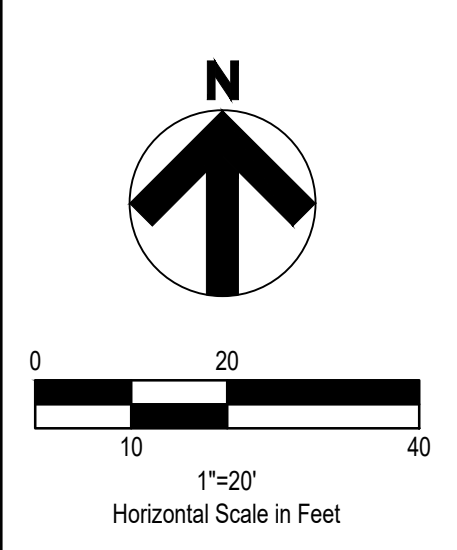
LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

- EXISTING ASPHALT TO BE REMOVED
- EXISTING BUILDING
- EXISTING CONCRETE TO BE REMOVED
- EXISTING EASEMENT
- DENOTES LIMITS OF SAWCUT
- DEMOLITION KEYNOTE
- APPURTENANCES

EXISTING STRUCTURES

| STRICT. ID | STRUCTURE DETAILS |
|------------|--|
| SAN 10065 | EXISTING SANITARY SEWER MANHOLE RIM=600.58 INV. 10' (E)=582.36 INV. 10' (S)=582.36 (FLOWS TO SOUTH) |
| CB 10387 | EXISTING STORM CATCH BASIN RIM=595.84 INV. 12" RCP (SE)=590.20 INV. 8" CLAY (NW)=591.94 |
| CB 10397 | EXISTING STORM CATCH BASIN RIM=593.90 INV. 18" RCP (E)=589.45 INV. 12" RCP (NW)=589.50 |
| CB 10398 | EXISTING STORM CATCH BASIN RIM=593.57 INV. 18" RCP (W)=588.82 INV. 18" RCP (SE)=588.77 |



BASES OF BEARING:
STATE PLANE GRID SOUTH ZONE.
INTERNATIONAL FEET, GROUND DISTANCE
NAD83

BENCHMARK 1
NORTHWESTERLY BOLT ON LIGHT POLE
N 376985.29, E 13516868.69
ELEV. = 597.00'

BENCHMARK 2
BENCH TAG IN UTILITY POLE
N 376962.68, E 13516528.29
ELEV. = 601.75'

BENCHMARK 3
SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD
N 377100.42, E 13516520.36
ELEV. = 599.29'

MICHIGAN'S ONE-CALL
UTILITY NOTIFICATION ORGANIZATION

THREE FULL WORKING DAYS BEFORE YOU DIG.
CALL THE MISS DIG SYSTEM AT
1-(800)-482-7171

OR CALL #DIG
FREE FROM YOUR AT&T OR CINGULAR CELLULAR PHONE

THE MISS DIG MEMBER UTILITIES WILL MARK THE APPROXIMATE LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO CHARGE.

| | | |
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| | IFC | 05.31.18 |
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| | | |

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 13 MILE RD.
ROSEVILLE, MI



T40
OPEN KITCHEN
MODERN EXPLORER
**EXISTING
CONDITION AND
DEMOLITION PLAN**

C-101

PLOT DATE: 12.19.17

A1 DEMOLITION PLAN
1" = 20'

BASES OF BEARING:
STATE PLANE GRID SOUTH ZONE,
INTERNATIONAL FEET, GROUND DISTANCE
NAD83

BENCHMARK 1
NORTHWESTERLY BOLT ON LIGHT POLE
N 376985.29, E 13516868.69
ELEV. = 597.00'

BENCHMARK 2
BENCH TAG IN UTILITY POLE
N 376962.68, E 13516528.29
ELEV. = 601.75'

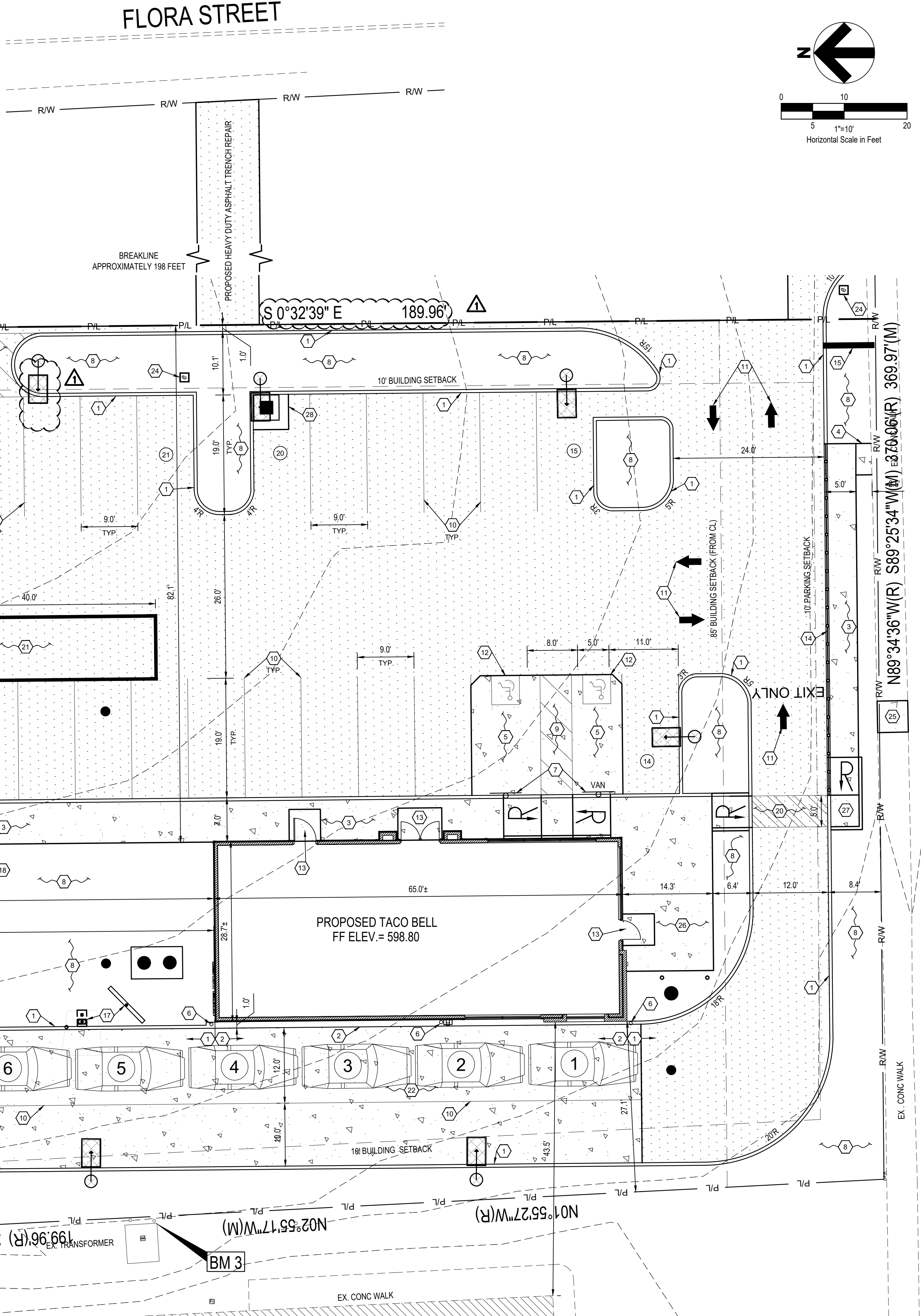
BENCHMARK 3
SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD
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LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO
CHARGE.



- PLAN KEYNOTES**
- PROPOSED 6" P.C.C. CURB, SEE SHEET C-501.
 - PROPOSED CURB AT DRIVE THRU, SEE SHEET C-501.
 - PROPOSED P.C.C. CURBED WALK, SEE SHEET C-501.
 - PROPOSED P.C.C. WALK, SEE SHEET C-501.
 - PROPOSED P.C.C. STANDARD DUTY PAVEMENT W/ W.W.F. 6" x 6"-W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.), SEE SPECIFICATIONS THIS SHEET. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT.
 - PROPOSED BOLLARD IN CURB, SEE SHEET C-501.
 - PROPOSED HANDICAPPED PARKING SIGN, SEE SHEET C-501.
 - PROPOSED LANDSCAPING AREA. SOD ALL DISTURBED AREAS EXCEPT WHERE PLANTING BEDS ARE INDICATED. SEE SHEET L-101.
 - PROPOSED PAINTED TRANSVERSE STRIPING, SEE SHEET C-501.
 - PROPOSED PAINTED 4" WIDE SOLID STRIPE - WHITE ON ASPHALT, YELLOW ON CONCRETE.
 - PROPOSED DIRECTIONAL PAVEMENT MARKINGS-WHITE ON ASPHALT, YELLOW ON CONCRETE PER PAVEMENT MARKINGS AND NOTES. SEE DETAILS SHEET C-501.
 - PROPOSED PAINTED INTERNATIONAL ADA SYMBOL PER ADA SPECIFICATIONS AND SEE SHEET C-501.
 - PROPOSED FROST SLAB AT DOOR. SEE STRUCTURAL DRAWINGS.
 - PROPOSED HANDRAIL, SEE DETAIL A1, SHEET C-502.
 - PROPOSED 25' O.A.H., 93 S.F. POLE SIGN PER SIGN SUPPLIER SPECIFICATIONS.
 - PROPOSED PORTAL. SEE SHEET C-503.
 - PROPOSED MENU BOARD AND SPEAKER PEDESTAL PER SIGN SUPPLIER SPECIFICATIONS AND SHEET C-503. SIGN SUPPLIER TO PROVIDE A TEMPLATE AND FOUNDATION DETAILS FOR CONTRACTOR. CONTRACTOR SHALL COORDINATE A MEETING WITH THE CONSTRUCTION MANAGER AND OPERATIONS TO VERIFY LOCATION AND PLACEMENT OF MENU BOARD AND SPEAKER PRIOR TO ANY CONSTRUCTION.
 - PROPOSED BIKE RACK, SEE SHEET C-503.
 - PROPOSED TRASH ENCLOSURE, REFER TO ARCHITECTURAL SHEET G2.0 FOR MORE INFORMATION.
 - PROPOSED CROSSWALK STRIPING, SEE SHEET C-501.
 - PROPOSED 40' X 10' LOADING AREA.
 - PROPOSED P.C.C. HEAVY DUTY PAVEMENT W/ W.W.F. 6" x 6"-W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.), SEE SPECIFICATIONS THIS SHEET. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT.
 - PROPOSED 1.0' CURB TAPER. SEE SHEET C-502.
 - PROPOSED PULLBOX FOR CONTINUATION OF EXISTING ELECTRICAL CABLES.
 - PROPOSED CONCRETE SIDEWALK REPLACEMENT TO NEAREST JOINT PER CITY OF ROSEVILLE STANDARDS AND SPECIFICATIONS.
 - PROPOSED PATIO AREA SEE ARCHITECTURAL SHEET A2.0 FOR LAYOUT INFORMATION.
 - PROPOSED FLUSH CURB AND WALK. SEE SHEET C-501.
 - PROPOSED CONCRETE COLLAR. SEE SHEET C-502.

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED CONCRETE
- CONSTRUCTION KEYNOTE
- PROPOSED PARKING SPACE NUMBER
- PROPOSED DRIVE THRU STACK CAR AND NUMBER
- PROPOSED UTILITY STRUCTURE REFER TO UTILITY PLAN, SHEET C-141.
- PROPOSED TRAFFIC SIGN
- PROPOSED DIRECTIONAL PAVEMENT MARKINGS - WHITE ON ASPHALT, YELLOW ON CONCRETE
- PROPOSED ADA ACCESSIBLE RAMP PER ADA SPECIFICATIONS AND SHEET C-501.

ASPHALT PAVEMENT

| MATERIAL | DEPTH (HVY. DUTY) | MDOT SPECIFICATIONS ITEM |
|---------------------------|-------------------|--------------------------|
| A.C. SURFACE COURSE | 2" | MDOT SE03 |
| A.C. INTERMEDIATE COURSE | 3" | MDOT 4E03 |
| AGG. BASE COURSE | 8" | MDOT 21AA |
| SUBGRADE COMPACTION (MIN) | PER SOILS REPORT | PER SOILS REPORT |

SOILS REPORT GOVERNS IF ANY DISCREPANCIES OCCUR.
SEE TYPICAL SECTION SHEET C-501.

CONCRETE PAVEMENT

| MATERIAL | DEPTH (HVY. DUTY) | DEPTH (STD. DUTY) | MDOT SPECIFICATIONS ITEM |
|----------------------------|-------------------|-------------------|--------------------------|
| PORTLAND CEMENT CONCRETE | 6" | 5" | |
| DENSE AGGREGATE BASE STONE | 6" | 6" | MDOT 21AA |
| SUBGRADE COMPACTION (MIN) | PER SOILS REPORT | PER SOILS REPORT | PER SOILS REPORT |

SOILS REPORT GOVERNS IF ANY DISCREPANCIES OCCUR.
SEE TYPICAL SECTION SHEET C-501.

BUILDING SETBACKS

| FRONT: 13 MILE RD | REAR: NORTH | SIDE: WEST | SIDE: EAST |
|-------------------|-------------|------------|------------|
| 20.0' | 20.0' | 10.0' | 10.0' |

PARKING SPACES

| REQUIRED | PROVIDED |
|----------|----------|
| 24 | 25 |

PARKING SETBACKS

| FRONT: 13 MILE RD | REAR: NORTH | SIDE: WEST | SIDE: EAST |
|-------------------|-------------|------------|------------|
| 10.0' | 0.0' | 0.0' | 0.0' |

LANDSCAPE SETBACKS

| FRONT: 13 MILE RD | REAR: NORTH | SIDE: WEST | SIDE: EAST |
|-------------------|-------------|------------|------------|
| 10.0' | 0.0' | 0.0' | 0.0' |

LAND USE DATA

| | PERCENTAGE OF SITE AREA | AREA PROVIDED |
|---------------------------------|-------------------------|--------------------|
| BUILDING | 8.1% | 0.05 AC. |
| PAVEMENT/IMPERVIOUS LANDSCAPING | 67.7% | 0.42 AC. |
| LANDSCAPING | 24.2% | 0.15 AC. |
| TOTAL | 100% | 0.62 AC. 26,813 SF |

BUILDING SETBACKS

FRONT: 13 MILE RD 20.0'
REAR: NORTH 20.0'
SIDE: WEST 10.0'
SIDE: EAST 10.0'

PARKING SPACES

NUMBER OF SPACES 24
PARKING REQUIREMENTS 25
1 SPACE FOR EVERY 2 SEATS PLUS 1 SPACE FOR EVERY EMPLOYEE IN THE LARGEST WORKING SHIFT. SUBTRACT REQUIRED STALLS FOR EACH PROVIDED BIKE RACK.
THEREFORE: 40 / 2 = 20 + 8 EMPLOYEE PARKING = 28 STALLS - 4 BIKE PARKING SPOTS = 24 REQUIRED STALLS

PARKING SETBACKS

FRONT: 13 MILE RD 10.0'
REAR: NORTH 0.0'
SIDE: WEST 0.0'
SIDE: EAST 0.0'

LANDSCAPE SETBACKS

FRONT: 13 MILE RD 10.0'
REAR: NORTH 0.0'
SIDE: WEST 0.0'
SIDE: EAST 0.0'

LAND USE DATA

BUILDING 8.1% 0.05 AC.
PAVEMENT/IMPERVIOUS LANDSCAPING 67.7% 0.42 AC.
LANDSCAPING 24.2% 0.15 AC.
TOTAL 100% 0.62 AC. 26,813 SF

CURRENT ZONING: B-2 COMMUNITY BUSINESS DISTRICT
ADJACENT ZONING: B-2 COMMUNITY BUSINESS DISTRICT
B-3 GENERAL BUSINESS DISTRICT
CURRENT LAND USE: COMMERCIAL
ADJACENT LAND USE: COMMERCIAL
NUMBER OF SEATING: 40 SEATS
NUMBER OF EMPLOYEES DURING LARGEST SHIFT: 8 EMPLOYEES

GPD GROUP
Professional Corporation

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL

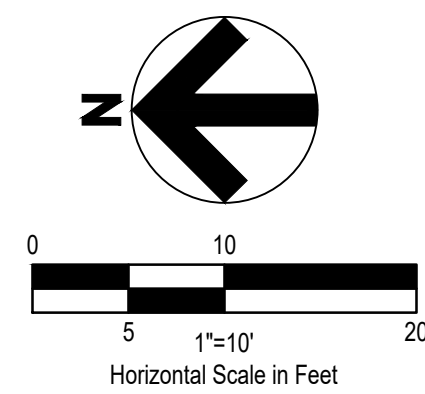
20779 13 MILE RD.
ROSEVILLE, MI

T40
OPEN KITCHEN
MODERN EXPLORER

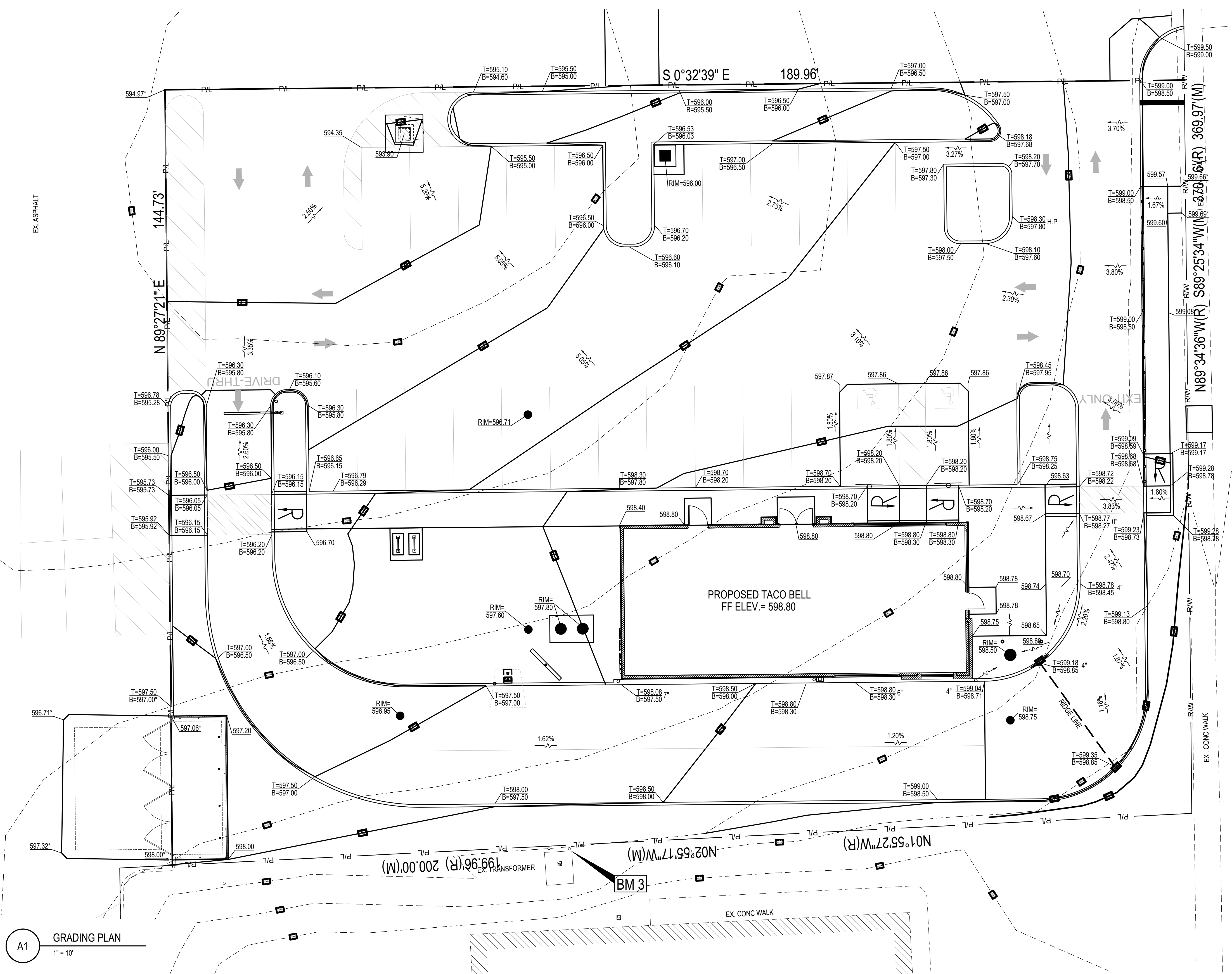
ENLARGED SITE PLAN

C-112

PLOT DATE: 12.19.17



- LEGEND**
(SEE SHEET C-001 FOR GENERAL LEGEND)
- 000 --- EXISTING CONTOUR
 - 000 — PROPOSED CONTOUR
 - 0.00/0.00 PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
 - T=0.00/0.00 B=0.00/0.00 TOP OF CURB ELEVATION
BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
 - 0.00/0.00 MATCH EXISTING ELEVATION
 - RIM=0.00/0.00 PROPOSED RIM ELEVATION
 - 4" T=0.00/0.00 B=0.00/0.00 PROPOSED TOP AND BOTTOM OF CURB WITH CURB REVEAL
 - H.P. T=0.00/0.00 B=0.00/0.00 PROPOSED TOP AND BOTTOM OF CURB HIGH POINT
 - 0.0% PROPOSED DRAINAGE SLOPE & DIRECTION



BASES OF BEARING:
STATE PLANE GRID SOUTH ZONE.
INTERNATIONAL FEET, GROUND DISTANCE
NAD83

BENCHMARK 1
NORTHWESTERLY BOLT ON LIGHT POLE
N 376985.29, E 13516888.69
ELEV. = 597.00'

BENCHMARK 2
BENCH TAG IN UTILITY POLE
N 376962.68, E 13516528.29
ELEV. = 601.75'

BENCHMARK 3
SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD
N 377100.42, E 13516520.36
ELEV. = 599.29'

MICHIGAN'S ONE-CALL
UTILITY NOTIFICATION ORGANIZATION

THREE FULL WORKING DAYS BEFORE YOU DIG.
CALL THE MISS DIG SYSTEM AT
1-(800)-482-7171

OR CALL #DIG
FREE FROM YOUR AT&T OR CINGULAR CELLULAR PHONE

THE MISS DIG MEMBER UTILITIES WILL MARK THE APPROXIMATE
LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO
CHARGE.

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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 13 MILE RD.
ROSEVILLE, MI



T40
OPEN KITCHEN
MODERN EXPLORER

GRADING PLAN

C-121

PLOT DATE: 12.19.17

A1 GRADING PLAN
1" = 10'

STORM WATER POLLUTION PREVENTION NOTES

- ALL WORK SPECIFIED AS A MICHIGAN DEPARTMENT OF TRANSPORTATION ITEM SHALL BE GOVERNED BY THE CURRENT STATE OF DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AS WELL AS THE CURRENT EDITION OF THE LOCAL JURISDICTION STORM WATER MANAGEMENT MANUAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSSESS AND TO BE FAMILIAR WITH APPLICABLE SECTIONS.
- THESE CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES SHALL BE IMPLEMENTED TO MANAGE THE CURRENT SITE CONDITIONS WHICH MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL AND WATER CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS AND CHANGE IN SITE CONDITIONS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.
- ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED IN THESE PLANS.
- PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 14 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 7 DAYS WITH SEEDING, AS DEFINED ON THE TEMPORARY SEEDING TABLE WITHIN THESE PLANS, TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL. WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.
- PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 7 DAYS AT THE COMPLETION OF ANY GRADED AREAS, WEATHER PERMITTING.
- PRIOR TO THE TIME THAT DRAINAGE DIVERTS TO INLETS, INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.
- SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING AND NEW STORM INLETS, CATCH BASINS, YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.
- STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND LOGGED BY THE CONTRACTOR FOR INSPECTION, LOGGING SHALL BE WEEKLY AND AFTER EVERY 1/2" RAINFALL EVENT. REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.
- SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT PERIMETER CONTROLS SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.
- TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND AFTER 1/2" RAIN EVENTS.
- UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.
- ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION AS SHOWN ON PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
- DUST CONTROL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. IF POSSIBLE GRADING SHALL BE DONE BY PHASING. IF PHASING IS NOT AN OPTION, DUST SHALL BE CONTROLLED WITH WATER DURING EARTHWORK. AFTER EARTHWORK OPERATIONS, THE EXPOSED SOILS SHALL BE COVERED WITH STRAW OR MULCH UNTIL SEEDED. SEE DETAIL WITHIN THESE PLANS. OIL IS NOT TO BE USED AS A DUST SUPPRESSANT.
- ANY DISCHARGE OF PETROLEUM OR PETROLEUM PRODUCTS OF LESS THAN 25 GALLONS ONTO A PERVIOUS SURFACE SHALL BE LEGALLY REMOVED AND PROPERLY TREATED OR PROPERLY DISPOSED OF, OR OTHERWISE REMEDIATED, SO THAT NO CONTAMINATION FROM THE DISCHARGE REMAINS ON-SITE.
- IN THE EVENT OF A LARGE PETROLEUM SPILL (25 OR MORE GALLONS) CONTRACTOR MUST CONTACT THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.
- CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT FACILITY SHALL BE UTILIZED. IF CONDITIONS ARE SUCH THAT MUD IS COLLECTING ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD ONTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.
- IF NECESSARY, THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- IF NECESSARY, ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
- IF ENCOUNTERED DURING SITE REDEVELOPMENT, ANY OIL/GAS WELLS OR MINE SHAFTS MUST BE PROPERLY ABANDONED, VAULTED AND VENTED IN ACCORDANCE WITH CURRENT REGULATIONS AND SPECIFICATIONS OF ALL GOVERNING AUTHORITIES
- IF, FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARE SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.
- THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES WHICH WILL BE USED ON THIS SITE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING :
 - SILT BARRIERS
 - CONSTRUCTION ENTRANCE
 - CONCRETE WASHOUT FACILITY

ADDITIONAL CONSTRUCTION SITE POLLUTION CONTROLS

- CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:
 - PREVENT SPILLS
 - USE PRODUCTS UP
 - FOLLOW LABEL DIRECTIONS FOR DISPOSAL
 - REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
 - RECYCLE WASTES WHENEVER POSSIBLE
 - DONT POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND
 - DONT POUR DOWN THE SINK, DOOR DRAIN OR SEPTIC TANKS
 - DONT BURY CHEMICALS OR CONTAINERS
 - DONT BURN CHEMICALS OR CONTAINERS
 - DONT MIX CHEMICALS TOGETHER
- CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CDD&D) WASTE MUST BE DISPOSED OF AT THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY. APPROVED CDD&D LAND FILL.
- NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY WHICH DOES NOT ENCRGOACH UPON NATURAL WETLANDS, STREAMS OR PLAINS OR RESULT IN THE CONTAMINATION OF WATERS OF THE STATE.
- HANDLING CONSTRUCTION CHEMICALS : MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
- EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVE GROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVE GROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. CONTAMINATED SOILS MUST BE DISPOSED OF IN ACCORDANCE WITH ITEM 8.
- CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED AWAY FROM ANY WATER CONVEYANCES.
- SPILL REPORTING REQUIREMENTS : SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LAND FILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY.. SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF THE RELEASE. ALL SPILLS WHICH CONTACT WATERS OF THE STATE MUST BE REPORTED TO THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY.
- CONTAMINATED SOILS : IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LAND FILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LAND FILL). NOTE THOSE STORM WATER RUNOFFS ASSOCIATED WITH CONTAMINATED SOILS ARE NOT BE AUTHORIZED UNDER MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY. GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- OPEN BURNING : NO OPEN BURNING.
- DUST CONTROL OR DUST SUPPRESSANTS SHALL BE USED TO PREVENT NUISANCE CONDITIONS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND IN A MANNER, WHICH PREVENT A DISCHARGE TO WATERS OF THE STATE. SUFFICIENT DISTANCE MUST BE PROVIDED BETWEEN APPLICATIONS AND NEARBY BRIDGES, CATCH BASINS, AND OTHER WATERWAYS. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN RAIN IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL.
- OTHER AIR PERMITTING REQUIREMENTS : CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS INCLUDING BUT NOT LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR PERMITS FOR INSTALLATION AND OPERATION. OPERATORS MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY. FOR DEMOLITION OF ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.
- PROCESS WASTE WATER/LEACHATE MANAGEMENT: MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY. CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER AND DOES NOT INCLUDE OTHER WASTE STREAMS/DISCHARGES SUCH AS VEHICLE AND/OR EQUIPMENT WASHING, ON-SITE SEPTIC LEACHATE CONCRETE WASH OUTS, WHICH ARE CONSIDERED PROCESS WASTEWATERS. ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT, LEACHATE OR SEPTAGE IS DISCHARGED; IT MUST BE ISOLATED FOR COLLECTION AND PROPER DISPOSAL AND CORRECTIVE ACTIONS TAKEN TO ELIMINATE THE SOURCE OF WASTE WATER.
- A PERMIT TO INSTALL (PTI) IS REQUIRED PRIOR TO THE CONSTRUCTION OF ALL CENTRALIZED SANITARY SYSTEMS, INCLUDING SEWER EXTENSIONS, AND SEWERAGE SYSTEMS (EXCEPT THOSE SERVING ONE, TWO, AND THREE FAMILY DWELLINGS) AND POTABLE WATER LINES. PLANS MUST BE SUBMITTED AND APPROVED BY MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY.. ISSUANCE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY CONSTRUCTION GENERAL STORM WATER PERMIT DOES NOT AUTHORIZE THE INSTALLATION OF ANY SEWERAGE SYSTEM WHERE TMICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY. HAS NOT APPROVED A PTI.
- PLEASE REFER TO THE LOCAL JURISDICTION STORM WATER MANAGEMENT MANUAL, CURRENT EDITION, FOR ADDITIONAL INFORMATION.
- WASTES GENERATED BY CONSTRUCTION ACTIVITIES (I.E. CONSTRUCTION MATERIALS SUCH AS PAINTS, SOLVENTS, FUELS, CONCRETE, WOOD, ETC) MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS. HAZARDOUS AND TOXIC SUBSTANCES ARE USED ON VIRTUALLY ALL CONSTRUCTION SITES. GOOD MANAGEMENT OF THESE SUBSTANCES IS ALWAYS NEEDED.

CONSTRUCTION SEQUENCE

DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED.

- INSTALL CONSTRUCTION ENTRANCE AS DETAILED ON PLANS. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED AROUND PERIMETER OF CONSTRUCTION SITE. WHERE THERE IS EXISTING FENCE ALONG THE PERIMETER OF THE SITE, IT CAN BE UTILIZED. FENCING SHALL BE USED TO RESTRICT OUTSIDE TRAFFIC TO SITE.
- DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- STAKE AND/OR FLAG LIMITS OF CLEARING.
- CLEARING & GRUBBING, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL SILT PERIMETER CONTROLS AS SHOWN ON PLANS. SILT PERIMETER CONTROLS SHALL BE INSTALLED LEVEL, ALONG THE CONTOURS, WITH ENDS TURNED UPSLOPE TO PREVENT CONCENTRATED FLOW AT THE SILT PERIMETER CONTROLS.
- INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
- CLEARING & GRUBBING, AS NECESSARY, FOR INSTALLATION OF TEMPORARY SEDIMENT TRAP/BASIN. INSTALL TEMPORARY SEDIMENT TRAP/BASIN, IF REQUIRED, AS DETAILED IN THE PLANS. CONSTRUCT AND MAINTAIN TEMPORARY DIVERSION SWALE AND / OR DIVERSION BERM DURING FILLING & GRADING ACTIVITIES.
- CLEARING & GRUBBING THE REMAINING SITE AS NECESSARY. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR REUSE, OR REMOVED TO AN APPROVED OFFSITE SPOIL AREA.
- BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
- UTILIZE DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE AIR-BORNE POLLUTION BY METHODS APPROVED BY THE AUTHORIZING EPA OFFICE.
- ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION.
- IN PROPOSED GRASS AREAS, REPLACE TOPSOIL, FINE GRADE AND SEED, AS REQUIRED. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR TEMPORARY SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.
- CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES, UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
- DO NOT REPLACE ANY TOPSOIL, SEED OR INSTALL FINAL PAVEMENT PRIOR TO COMPLETION OF BUILDING SHELL. SHOULD SITEWORK BE COMPLETED PRIOR TO THIS DATE, MULCH DISTURBED AREAS TO BE PLANTED AND INSTALL STONE SUBBASE IN DISTURBED AREAS TO BE PAVED.
- FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION. BEGIN LANDSCAPE INSTALLATION.
- COMPLETE SITEWORK, PAVEMENT MARKINGS AND FINAL CLEAN-UP. RESEED ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A MINIMUM 80% VEGETATIVE DENSITY HAS BEEN ACHIEVED.
- MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED. ALL AREAS OF VEGETATIVE SURFACE, WHETHER PERMANENT OR TEMPORARY, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.
- REMOVE SEDIMENT CONTROLS.
- THE FOLLOWING ITEMS MUST BE COMPLETED IN ORDER BY THE CONTRACTOR, ONCE THE SITE HAS BEEN DEEMED STABLE:
 - REMOVE CONSTRUCTION ENTRANCE PRIOR TO COMPLETION OF PAVING
 - SITE CLEAN UP
 - RESEED ANY AREAS THAT REQUIRE ADDITIONAL SEED
 - SILT FENCE SHOULD BE CLEANED, REMOVED, BACKFILLED AND SEEDED WITH PERMANENT SEEDING.
 - VERIFY POSITIVE DRAINAGE FLOW IN ALL DRAINAGE STRUCTURES, REPAIR AS NECESSARY.

** YEARLY INSPECTIONS, COMPLETED BY MAY 31ST OF EACH YEAR, MUST BE DOCUMENTED. COPIES SHOULD BE SENT TO THE LOCAL CITY AS WELL AS THE LOCAL COUNTY SOIL AND WATER CONSERVATION DISTRICT.

ONLY APPROVED SIGNED PLANS BY THE LOCAL SWCD ARE TO BE USED FOR CONSTRUCTION.

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

CONTRACTOR'S INSPECTOR SHALL BE RESPONSIBLE FOR PREPARING AND SIGNING WEEKLY AND ALL INTERMEDIATE EROSION CONTROL INSPECTION REPORTS AFTER EVERY INSPECTION. SUCH REPORTS SHALL BE MADE AVAILABLE TO OWNER, ENGINEER AND CITY / STATE OFFICIALS UPON THEIR REQUEST.

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

CONTRACTOR MAY SUBMIT A WAIVER REQUEST TO THE STATE EPA FOR A REDUCTION TO MONTHLY INSPECTIONS IF THE SITE WILL BE STABILIZED DORMANT SITE FOR A LONG PERIOD.

ONLY A QUALIFIED INSPECTION PERSONNEL IS TO PERFORM THE INSPECTIONS.

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

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

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

STORM WATER POLLUTION PREVENTION PLAN NARRATIVE

PROJECT DESCRIPTION

THIS SITE WAS PART OF AN EXISTING PARKING LOT OF A SHOPPING PLAZA THAT WILL BE TURNED INTO A NEW TACO BELL.

PROJECT COMPLETION STATISTICS

PARCEL SIZE (AFTER LOT SPLIT): 0.62 ACRES
 TOTAL DISTURBED AREA: APPROX. 0.60 ACRES

EXISTING LAND USE FOR THE SITE IS AN EXISTING PLAZA PARKING LOT.

ESTIMATED PRE-CONSTRUCTION IMPERVIOUS AREA: 0.58 ACRES
 ESTIMATED PRE-CONSTRUCTION IMPERVIOUS PERCENT: 93.5%
 PRE-CONSTRUCTION RUN-OFF COEFFICIENT: 0.90
 PROPOSED LAND USE WILL BE APARTMENT BUILDING WITH PARKING LOT AND AMENITY IMPROVEMENTS

ESTIMATED POST-CONSTRUCTION IMPERVIOUS AREA: 0.47 ACRES
 ESTIMATED POST-CONSTRUCTION IMPERVIOUS PERCENT: 75.8%
 POST-CONSTRUCTION RUN-OFF COEFFICIENT: 0.75

PROJECT LOCATION:

LATITUDE 42.525390°
LONGITUDE -82.907758°

EXISTING SITE SOIL TYPES:

BIA: BLOUNT LOAM, ERIE-HURON LAKE PLAIN, 0 TO 2 PERCENT SLOPES.
 SI: SIMS CLAY LOAM

REFERENCE: USDA NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

WETLAND INFORMATION:

THERE ARE NO WETLANDS ON THIS SITE PER THE NATIONAL WETLANDS INVENTORY WEBSITE.

FIRST AND SUBSEQUENT RECEIVING STREAM:

INITIAL RECEIVING WATER IS A STORM SEWER AND THE SUBSEQUENT RECEIVING WATER IS THE LAKE ST CLAIR.

CONTROL RATIONAL AND DESCRIPTION

THE PROPOSED PROJECT IS UNDER ONE ACRE; THEREFORE, NO DETENTION OR WATER QUALITY IS REQUIRED PER THE CITY OF ROSEVILLE ENGINEERING DEPARTMENT.

OWNER CONTACT:

RAY KOUZA
 13 & LITTLE MACK CETER, LLC
 PO BOX 237
 BELLEVILLE, MI 48112
 313-215-1400

ANTICIPATED TIMING:

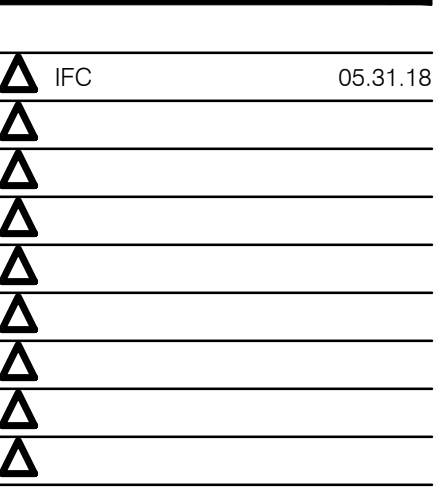
CONSTRUCTION BEGIN: APRIL, 2018
 CONSTRUCTION COMPLETE: JULY, 2018

CONTRACTOR: T.B.D. _____
 CONTACT: _____
 PHONE NUMBER: _____

CONTRACTOR SHALL MAINTAIN A CONSTRUCTION LOG DOCUMENTING ALL GRADING AND STABILIZATION ACTIVITIES.



520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax: 330.572.2102



CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 SITE NUMBER: 312262/442877
 STORE NUMBER: 2016088.09

TACO BELL

20779 13 MILE RD.
 ROSEVILLE, MI

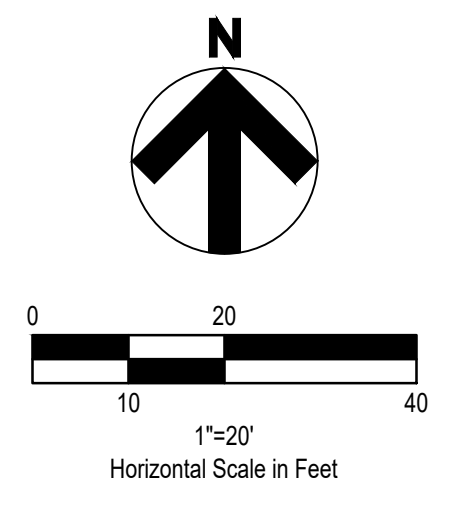
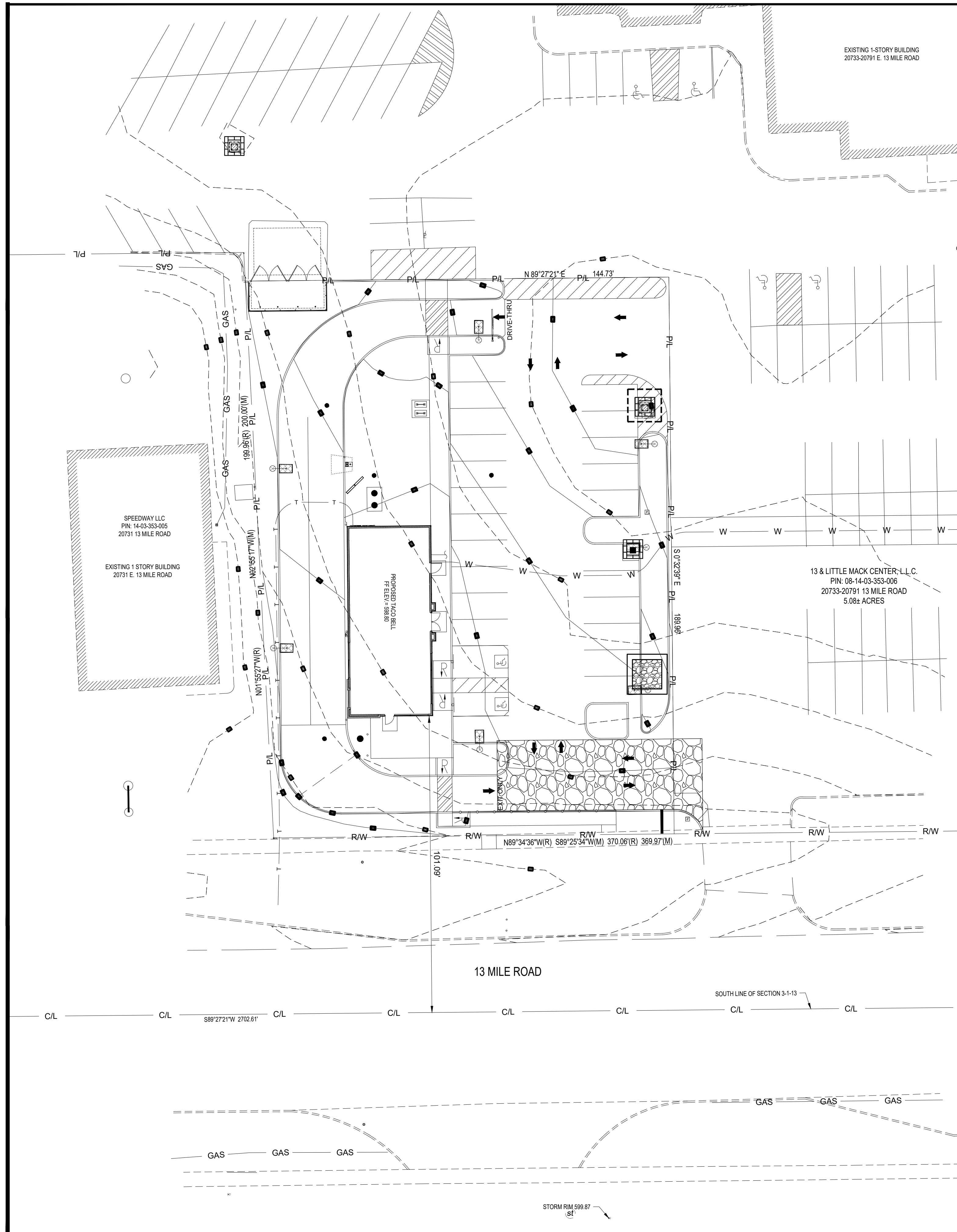


T40
 OPEN KITCHEN
 MODERN EXPLORER

SWPP NOTES

C-131

PLOT DATE: 12.19.17



- LEGEND**
(SEE SHEET C-001 FOR GENERAL LEGEND)
- PROPOSED SILT BARRIER
REFER TO SWPP DETAILS
 - PROPOSED CONSTRUCTION ENTRANCE
REFER TO SWPP DETAILS
 - PROPOSED CONCRETE WASHOUT FACILITY
REFER TO SWPP DETAILS
 - PROPOSED FILTER SOCK



BASES OF BEARING:
STATE PLANE GRID SOUTH ZONE,
INTERNATIONAL FEET, GROUND DISTANCE
NAD83

BENCHMARK 1
NORTHWESTERLY BOLT ON LIGHT POLE
N 376985.29, E 13516868.69
ELEV. = 597.00'

BENCHMARK 2
BENCH TAG IN UTILITY POLE
N 376962.68, E 13516528.29
ELEV. = 601.75'

BENCHMARK 3
SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD
N 377100.42, E 13516520.36
ELEV. = 599.29'

MICHIGAN'S ONE-CALL
UTILITY NOTIFICATION ORGANIZATION

THREE FULL WORKING DAYS BEFORE YOU DIG.
CALL THE MISS DIG SYSTEM AT
1-(800)-482-7171

OR CALL #DIG
FREE FROM YOUR AT&T OR CINGULAR CELLULAR PHONE

THE MISS DIG MEMBER UTILITIES WILL MARK THE APPROXIMATE
LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO
CHARGE.

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TACO BELL
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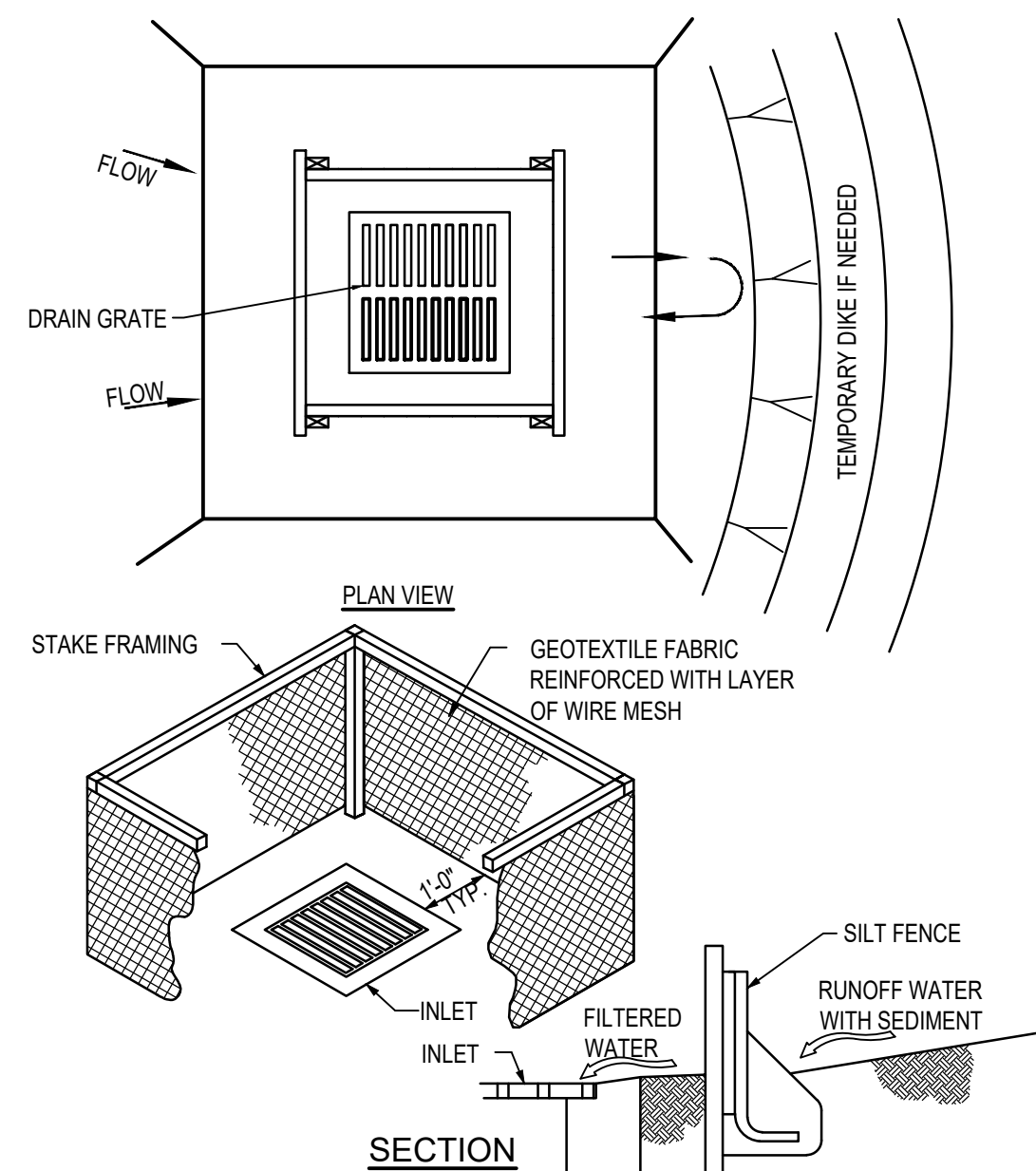


T40
OPEN KITCHEN
MODERN EXPLORER

SWPP PLAN

C-132

PLOT DATE: 12.19.17



- NOTES:**
1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
 2. SILT FENCE SHALL BE GEOTEXTILE FABRIC, PER STATE'S DEPARTMENT OF TRANSPORTATION STANDARDS, AND SHOULD BE CUT FROM A CONTINUOUS ROLL TO AVOID JOINTS.
 3. STAKES SHALL BE 1" x 2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET. STAKES SHALL BE SPACED AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND SECURELY DRIVEN INTO THE GROUND (MINIMUM OF 8 INCHES). THE TOP OF THE FRAME SHALL BE AT LEAST 6 IN. BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
 4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
 5. THE SILT FENCE SHALL BE STAPLED WITH HEAVY DUTY WIRE STAPLES AT LEAST 1/2 INCH LONG, TO THE WOODEN STAKES, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE HEIGHT OF THE FILTER BARRIER SHALL BE A MINIMUM OF 15 INCHES AND SHALL NOT EXCEED 18 INCHES (PLATE 1.088)
 6. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
 7. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
 8. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
 9. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 IN. HIGHER THAN THE TOP OF THE FRAME.

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

COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

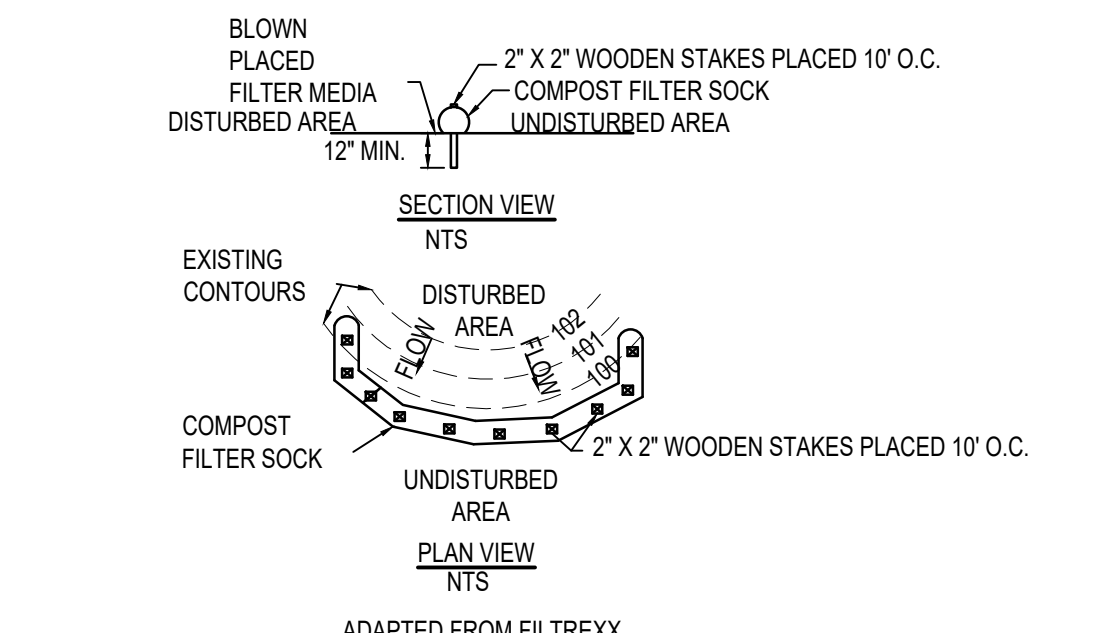
| MATERIAL TYPE | 3 mil HDPE | 5 mil HDPE | 5 mil HDPE | MULTI-FILAMENT POLYPROPYLENE (MPPP) | HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (MPPP) |
|--|------------------|-------------------|-------------------|-------------------------------------|--|
| MATERIAL CHARACTERISTICS | PHOTO-DEGRADABLE | PHOTO-DEGRADABLE | BIO-DEGRADABLE | PHOTO-DEGRADABLE | PHOTO-DEGRADABLE |
| SOCK DIAMETERS | 12" 18" | 12" 18" 24" | 12" 18" 24" | 12" 18" 24" | 12" 18" 24" |
| MESH OPENING | 3/8" | 3/8" | 3/8" | 3/8" | 1/8" |
| TENSILE STRENGTH | | 26 PSI | 26 PSI | 44 PSI | 202 PSI |
| ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155) | % AT 1000 HR. | 23% AT 1000 HR. | | 100% AT 1000 HR. | 100% AT 1000 HR. |
| MINIMUM FUNCTIONAL LONGEVITY | 6 MONTHS | 9 MONTHS | 6 MONTHS | 1 YEAR | 2 YEARS |

TWO-PLY SYSTEMS

| INNER CONTAINMENT NETTING | HDPE BIAXIAL NET CONTINUOUSLY WOUND FUSION-WELDED JUNCTURES 3/4" X 3/4" MAX. APERTURE SIZE |
|---------------------------|--|
| OUTER FILTRATION MESH | COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER & NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH) 3/16" MAX. APERTURE SIZE |

SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS

| COMPOST SHALL MEET THE FOLLOWING STANDARDS: | |
|---|-------------------------------|
| ORGANIC MATTER CONTENT | 80% - 100% (DRY WEIGHT BASIS) |
| ORGANIC PORTION | FIBROUS AND ELONGATED |
| pH | 5.5 - 8.0 |
| MOISTURE CONTENT | 35% - 55% |
| PARTICLE SIZE | 98% PASS THROUGH 1" SCREEN |
| SOLUBLE SALT CONCENTRATION | 5.0 gS MAXIMUM |



COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT.

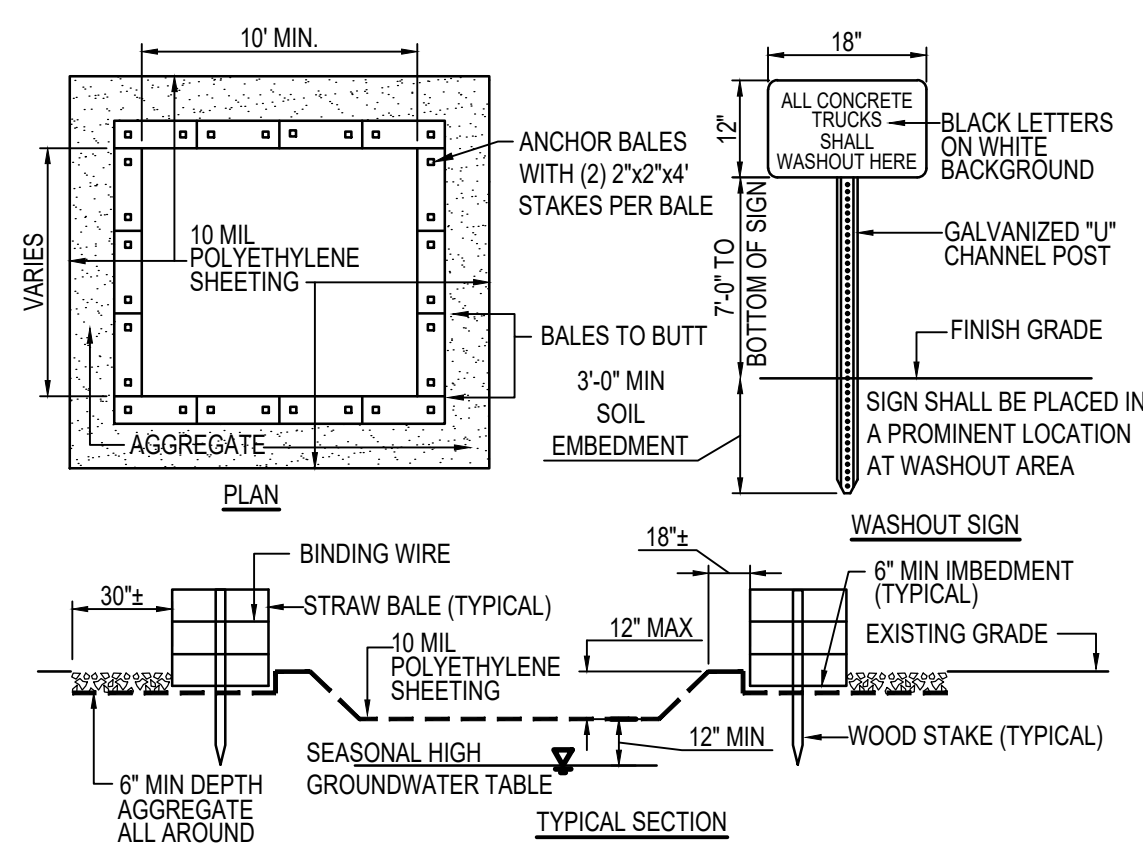
TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH 1/2 INCH STORM RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.



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

A3 CONCRETE WASHOUT AREA
N.T.S.

A4 YARD INLET PROTECTION
N.T.S.

A5 COMPOST FILTER SOCK
N.T.S.

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CONTRACT DATE: 01.08.18
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PLAN VERSION: DEC 2017
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 13 MILE RD.
ROSEVILLE, MI



T40
OPEN KITCHEN
MODERN EXPLORER

SWPP NOTES

C-134

PLOT DATE: 12.19.17


BASES OF BEARING:
STATE PLANE GRID SOUTH ZONE,
INTERNATIONAL FEET, GROUND DISTANCE
NAD83

BENCHMARK 1
NORTHWESTERLY BOLT ON LIGHT POLE
N 376985.29, E 13516868.69
ELEV. = 597.00'

BENCHMARK 2
BENCH TAG IN UTILITY POLE
N 376962.68, E 13516528.29
ELEV. = 601.75'

BENCHMARK 3
SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD
N 377100.42, E 13516520.36
ELEV. = 599.29'

MICHIGAN'S ONE - CALL

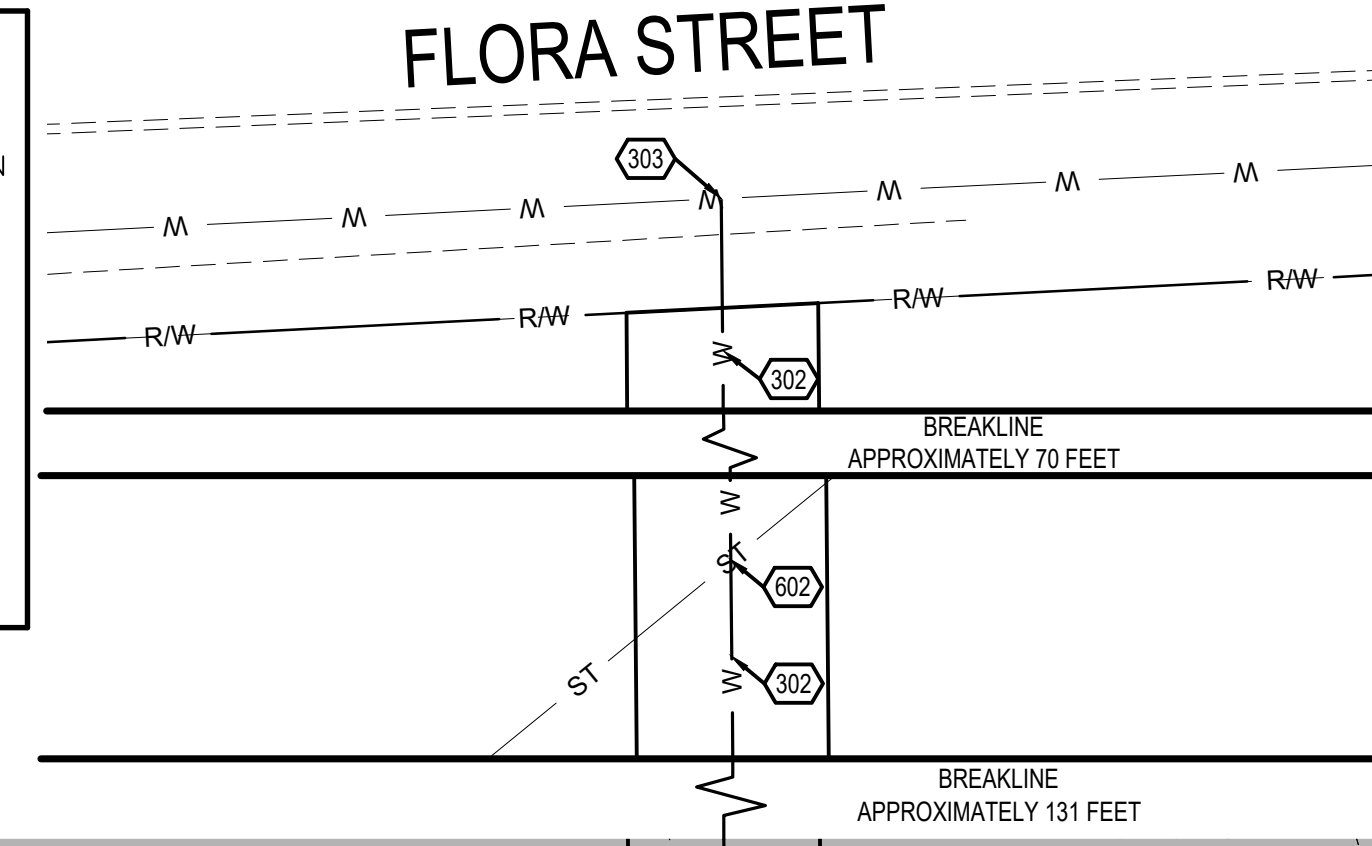


UTILITY NOTIFICATION ORGANIZATION

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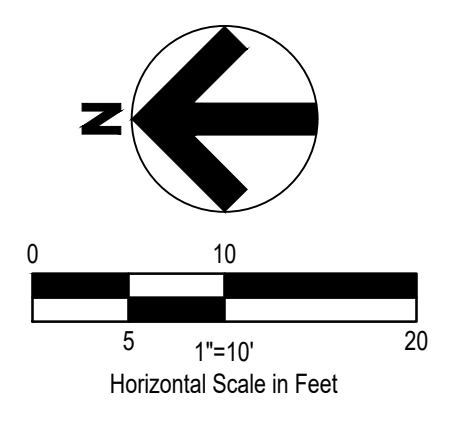
THE MISS DIG MEMBER UTILITIES WILL MARK THE APPROXIMATE
LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO
CHARGE.



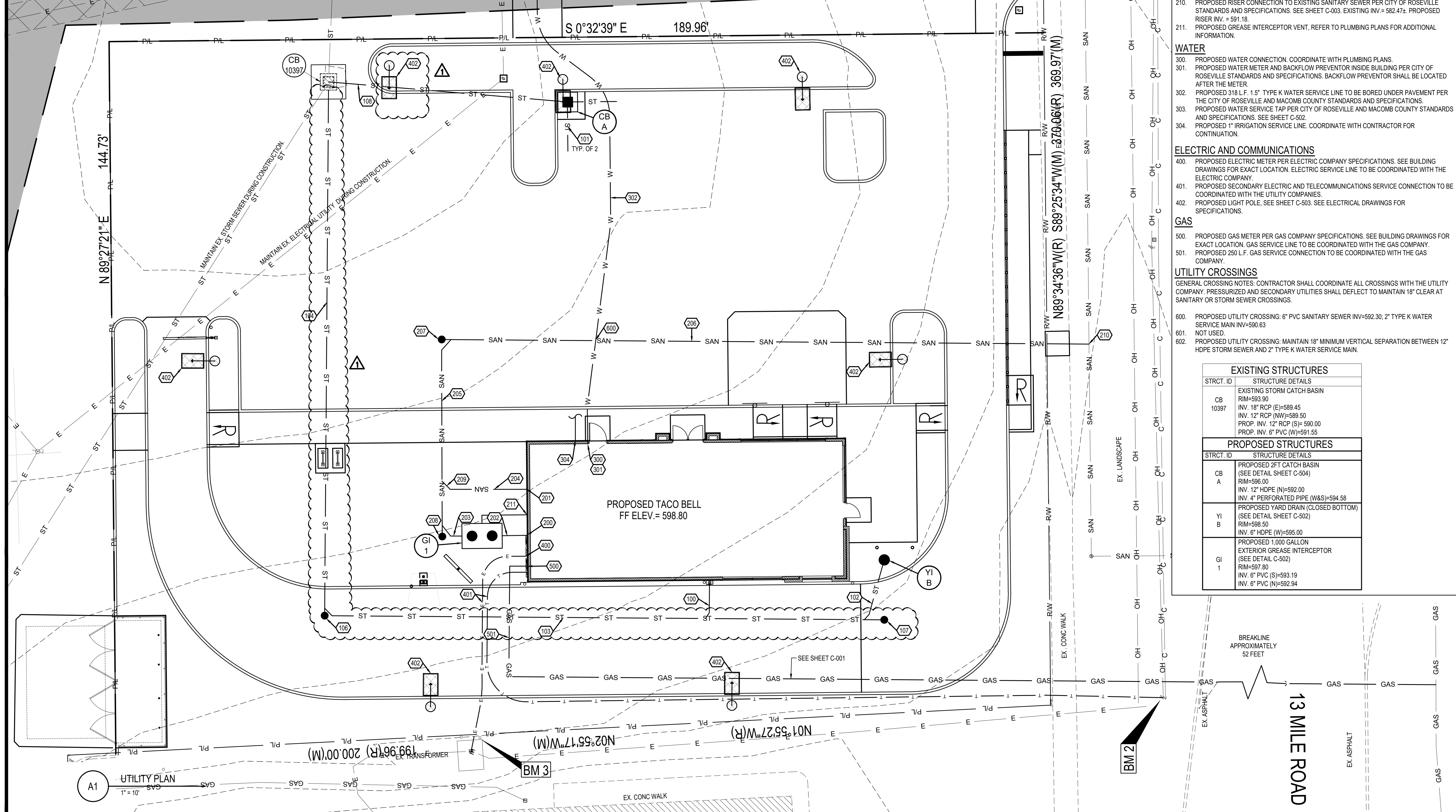
LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

- ST PROPOSED STORM SEWER
- SAN PROPOSED SANITARY SEWER
- W PROPOSED WATER SERVICE
- GAS PROPOSED GAS SERVICE
- E PROPOSED UNDERGROUND ELECTRIC SERVICE
- A # APPURTENANCES
- E UTILITY CONSTRUCTION KEYNOTE

NOTE:
ALL PVC AND HDPE PIPE SHALL BE SCHEDULE 40 EQUIVALENT OR GREATER.



- PLAN KEYNOTES**
- STORM**
- 100. PROPOSED DOWNSPOUT COLLECTOR LINE @ 2.00% MINIMUM. 52 L.F. TOTAL.
 - 101. PROPOSED FINGER DRAIN. SEE SHEET C-502.
 - 102. PROPOSED 13 L.F. OF 6" PVC STORM SEWER @ 1.00%
 - 103. PROPOSED 114 L.F. OF 6" PVC STORM SEWER @ 1.57%
 - 104. PROPOSED 107 L.F. OF 6" PVC STORM SEWER @ 1.54%
 - 105. NOT USED
 - 106. PROPOSED STORM CLEANOUT AND WYE CONNECTION SEE SHEET C-502. INV=593.20
 - 107. PROPOSED STORM CLEANOUT AND WYE CONNECTION SEE SHEET C-502. INV=595.00
 - 108. PROPOSED 29 L.F. OF 12" RCP CLASS IV STORM SEWER @ 4.10%
- SANITARY**
- 200. PROPOSED SANITARY CONNECTION. INV=593.24
 - 201. PROPOSED SANITARY CONNECTION. INV=592.96
 - 202. PROPOSED 5 L.F. OF 6" PVC SANITARY SEWER @ 1.00%
 - 203. PROPOSED 4 L.F. OF 6" PVC SANITARY SEWER @ 1.00%
 - 204. PROPOSED 18 L.F. OF 6" PVC SANITARY SEWER @ 1.00%
 - 205. PROPOSED 41 L.F. OF 6" PVC SANITARY SEWER @ 1.00%
 - 206. PROPOSED 132 L.F. OF 6" PVC SANITARY SEWER @ 1.00%
 - 207. PROPOSED SANITARY CLEANOUT SEE SHEET C-502 AND WYE CONNECTION SHEET C-502. INV=592.50.
 - 208. PROPOSED SANITARY CLEANOUT SEE SHEET C-502 AND WYE CONNECTION SHEET C-502. INV=592.90.
 - 209. PROPOSED SANITARY WYE CONNECTION. SEE SHEET C-502. INV=592.79.
 - 210. PROPOSED RISER CONNECTION TO EXISTING SANITARY SEWER PER CITY OF ROSEVILLE STANDARDS AND SPECIFICATIONS. SEE SHEET C-003. EXISTING INV. = 582.47'. PROPOSED RISER INV. = 591.18.
 - 211. PROPOSED GREASE INTERCEPTOR VENT, REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- WATER**
- 300. PROPOSED WATER CONNECTION. COORDINATE WITH PLUMBING PLANS.
 - 301. PROPOSED WATER METER AND BACKFLOW PREVENTOR INSIDE BUILDING PER CITY OF ROSEVILLE STANDARDS AND SPECIFICATIONS. BACKFLOW PREVENTOR SHALL BE LOCATED AFTER THE METER.
 - 302. PROPOSED 318 L.F. 1.5" TYPE K WATER SERVICE LINE TO BE BORED UNDER PAVEMENT PER THE CITY OF ROSEVILLE AND MACOMB COUNTY STANDARDS AND SPECIFICATIONS.
 - 303. PROPOSED WATER SERVICE TAP PER CITY OF ROSEVILLE AND MACOMB COUNTY STANDARDS AND SPECIFICATIONS. SEE SHEET C-502.
 - 304. PROPOSED 1" IRRIGATION SERVICE LINE. COORDINATE WITH CONTRACTOR FOR CONTINUATION.
- ELECTRIC AND COMMUNICATIONS**
- 400. PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. ELECTRIC SERVICE LINE TO BE COORDINATED WITH THE ELECTRIC COMPANY.
 - 401. PROPOSED SECONDARY ELECTRIC AND TELECOMMUNICATIONS SERVICE CONNECTION TO BE COORDINATED WITH THE UTILITY COMPANIES.
 - 402. PROPOSED LIGHT POLE, SEE SHEET C-503. SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS.
- GAS**
- 500. PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. GAS SERVICE LINE TO BE COORDINATED WITH THE GAS COMPANY.
 - 501. PROPOSED 250 L.F. GAS SERVICE CONNECTION TO BE COORDINATED WITH THE GAS COMPANY.
- UTILITY CROSSINGS**
- GENERAL CROSSING NOTES: CONTRACTOR SHALL COORDINATE ALL CROSSINGS WITH THE UTILITY COMPANY. PRESSURIZED AND SECONDARY UTILITIES SHALL DEFLECT TO MAINTAIN 18" CLEAR AT SANITARY OR STORM SEWER CROSSINGS.
- 600. PROPOSED UTILITY CROSSING: 6" PVC SANITARY SEWER INV=592.30; 2" TYPE K WATER SERVICE MAIN INV=590.63
 - 601. NOT USED.
 - 602. PROPOSED UTILITY CROSSING: MAINTAIN 18" MINIMUM VERTICAL SEPARATION BETWEEN 12" HDPE STORM SEWER AND 2" TYPE K WATER SERVICE MAIN.



GPD GROUP
Professional Corporation

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

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BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 13 MILE RD.
ROSEVILLE, MI

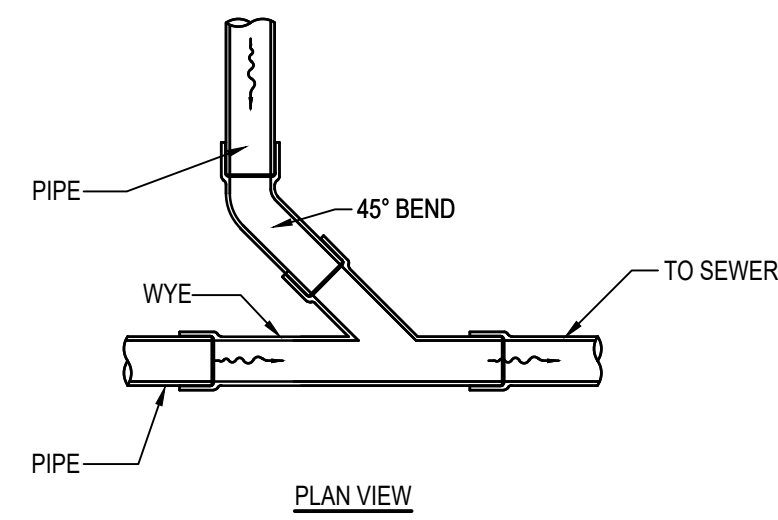


T40
OPEN KITCHEN
MODERN EXPLORER

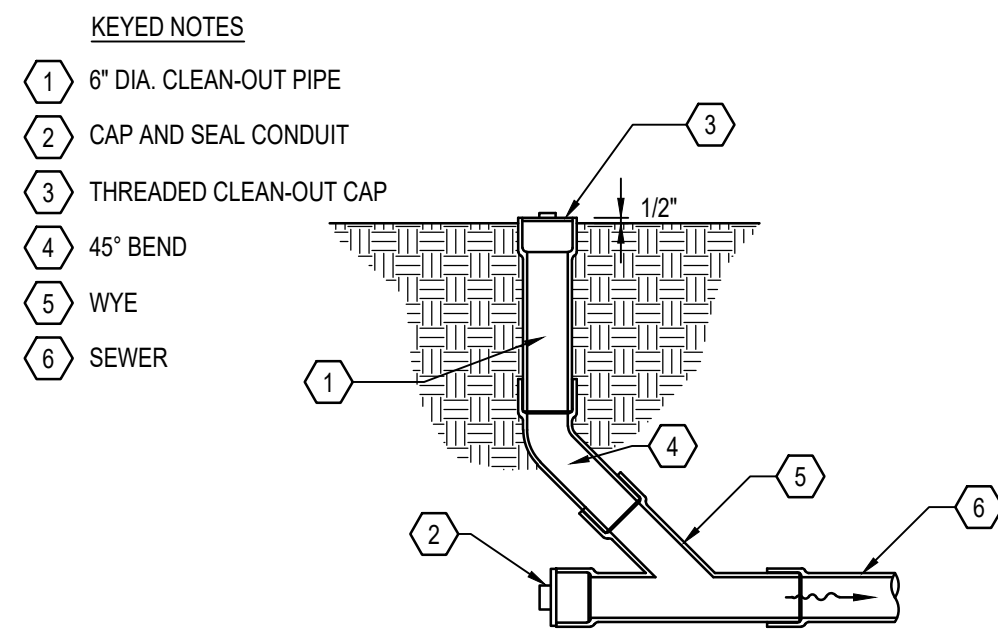
UTILITY PLAN

C-141

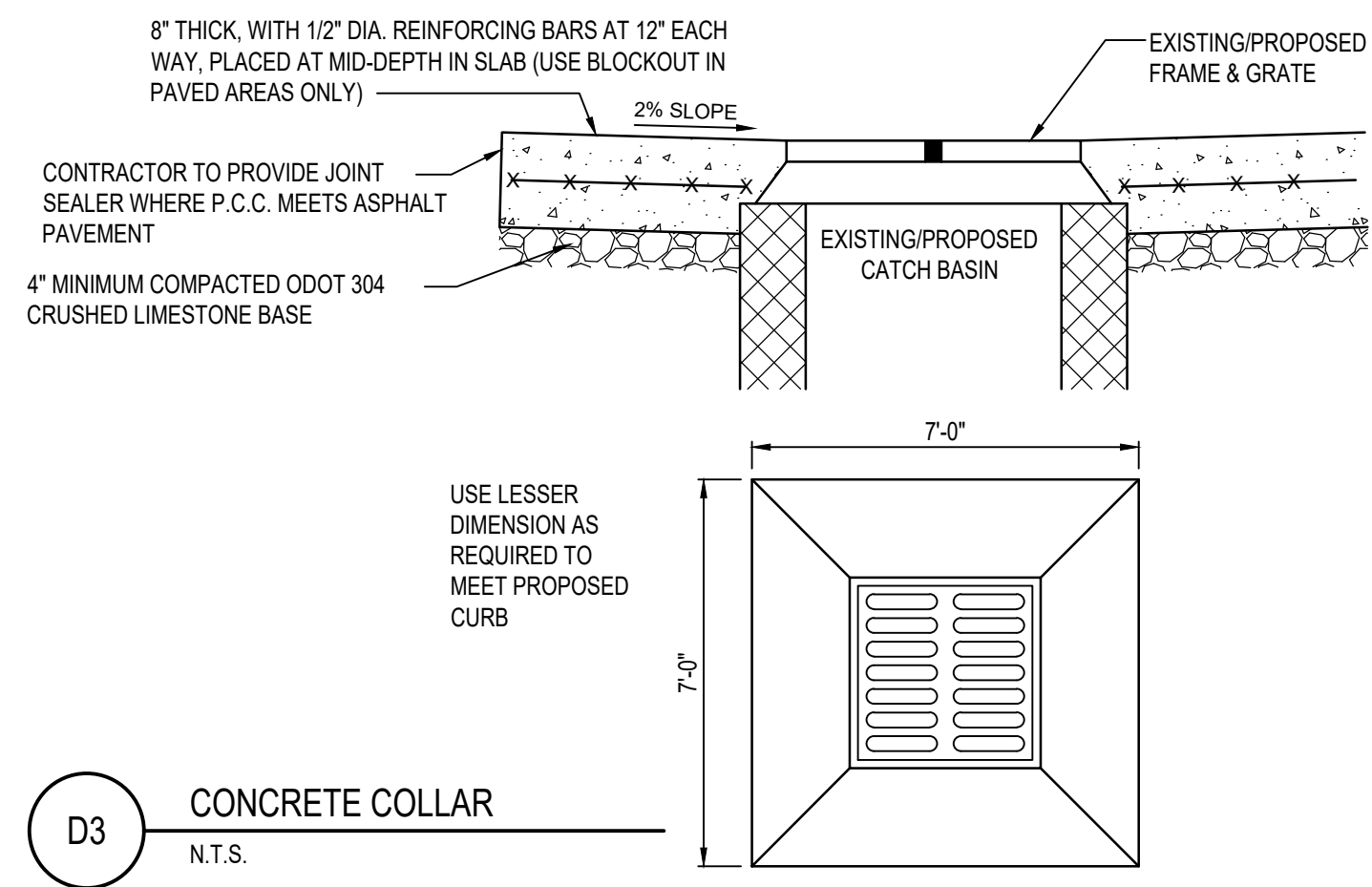
PLOT DATE: 12.19.17



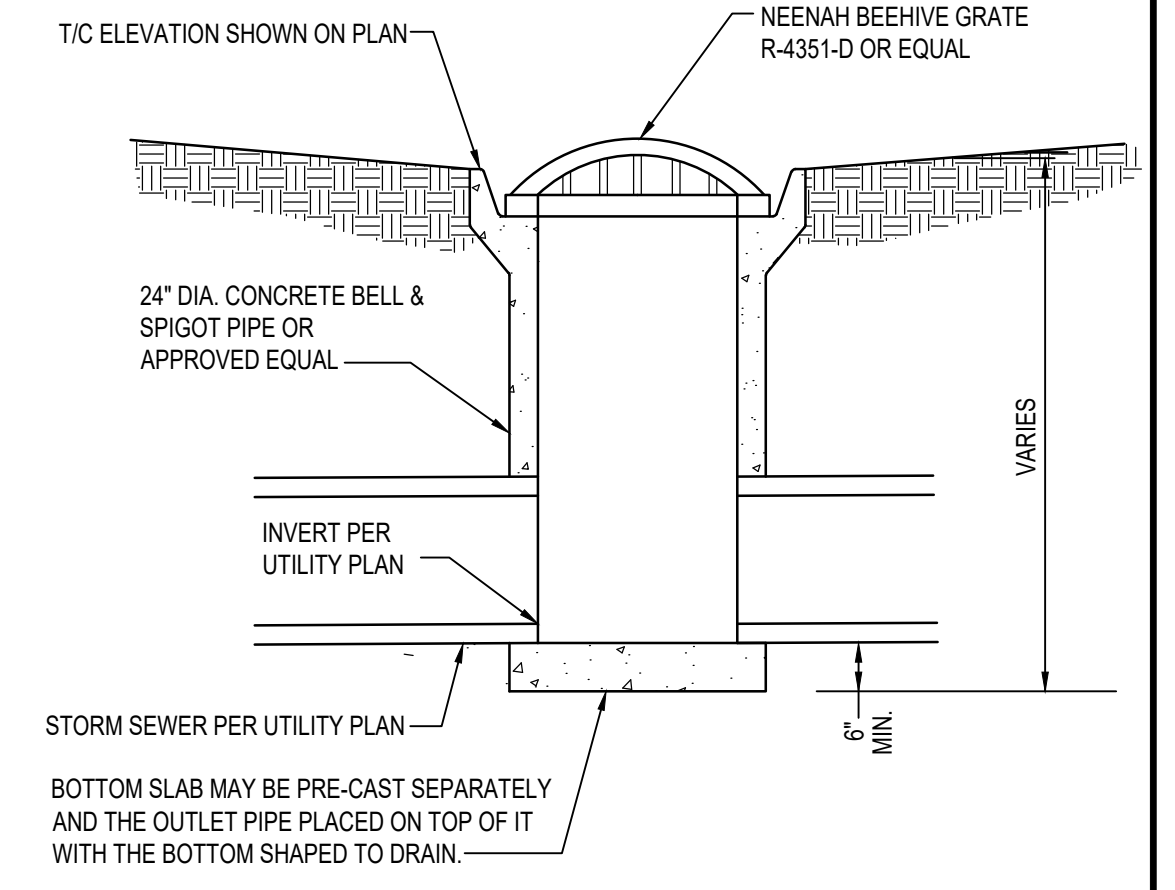
D1 WYE CONNECTION
N.T.S.



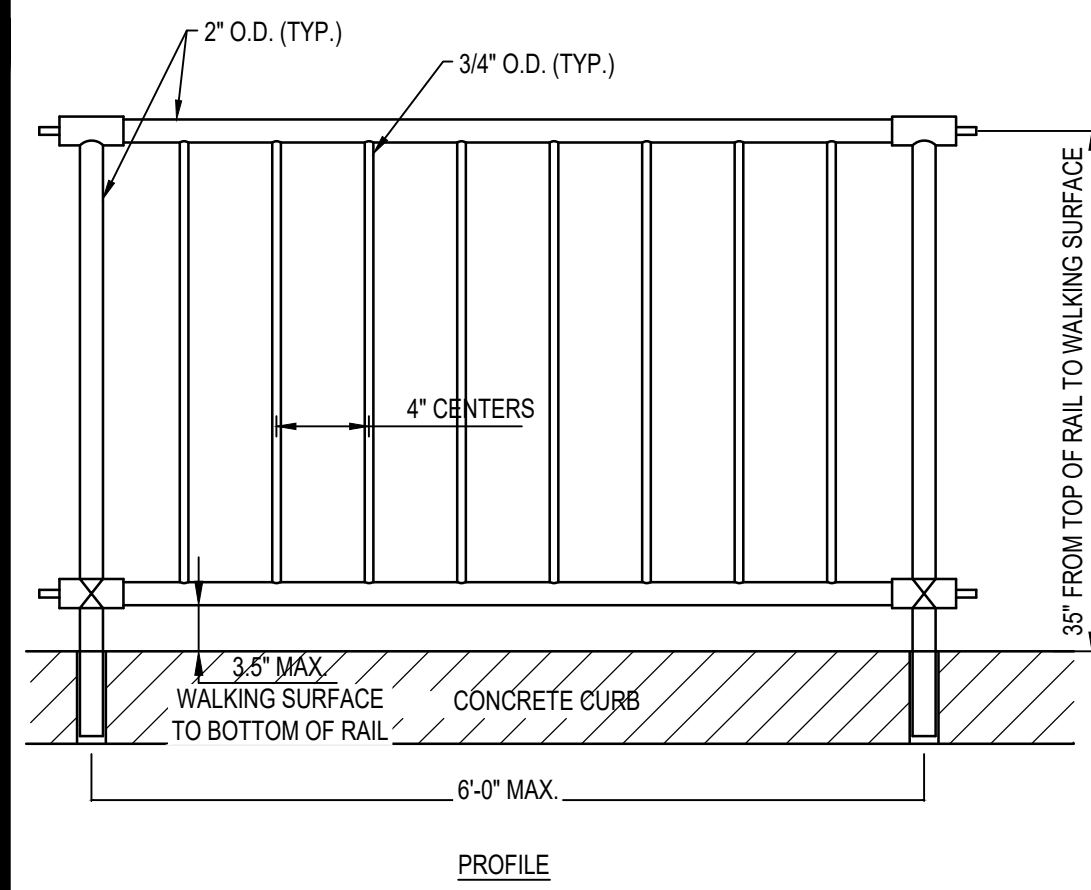
D2 CLEAN OUT (LAWN AREA)
N.T.S.



D3 CONCRETE COLLAR
N.T.S.



C4 YARD DRAIN (CLOSED BOTTOM)
N.T.S.

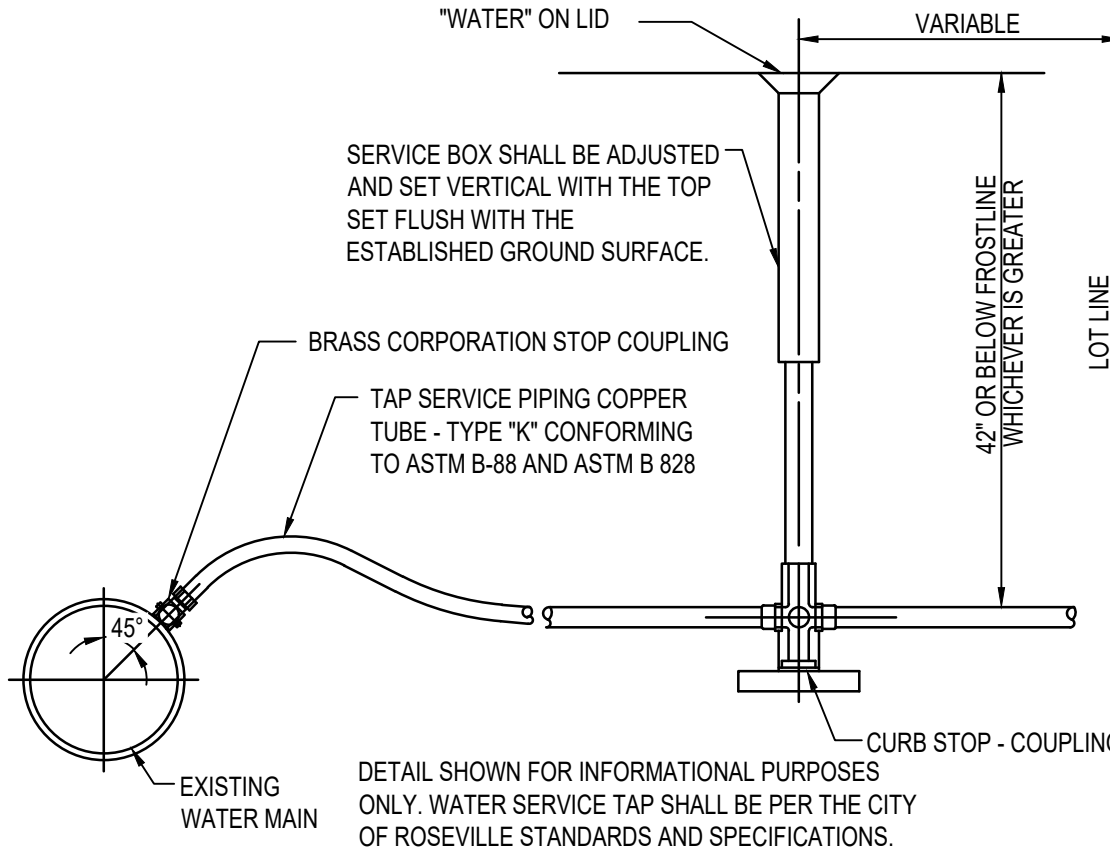


PIPE RAILING NOTES

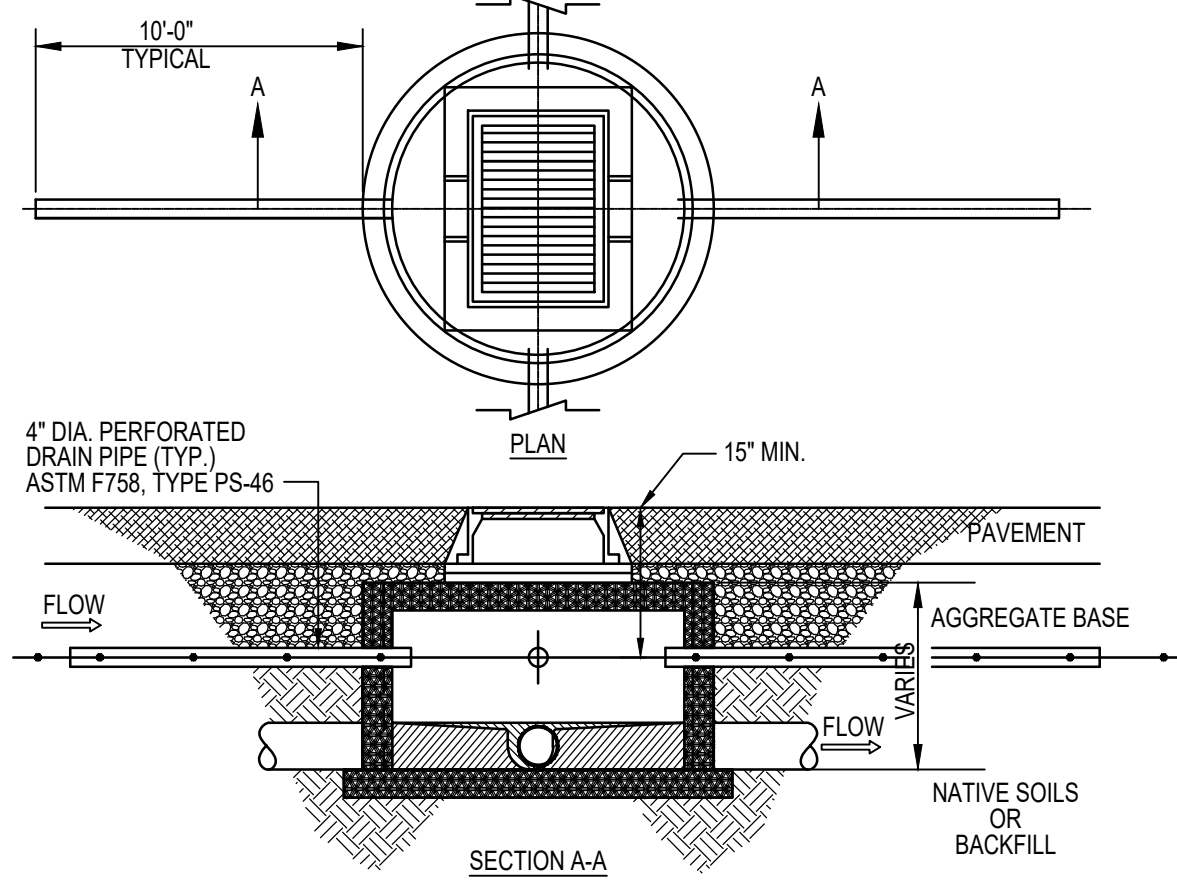
- RAILING SHALL BE CV PIPE RAIL OR APPROVED EQUAL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- SHOP DRAWINGS OF RAIL SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.
- ALL ALUMINUM PARTS SHALL BE GIVEN CLEAR ANODIC COATING AT LEAST 0.0006 INCHES THICK AND HOT WATER SEALED AND SHALL HAVE A UNIFORM FINISH.
- PIPE RAILING AND PIPE SPLICES MAY BE HEATED TO NOT MORE THAN 400° FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.
- WELDING OF ALUMINUM SHALL BE IN ACCORDANCE WITH SECTION 5 OF THE LATEST AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- ALLOW FOR EXPANSION AT APPROXIMATELY EVERY FOURTH POST.
- RAILS, POSTS AND FORMED ELBOWS SHALL BE A.S.T.M. B-241 OR B-429. ALLOW 6063-T6 SCHEDULE REINFORCING SLEEVES SHALL BE DRAWN ALUMINUM TUBING 6063-T832.

NOTE: CONTRACTOR SHALL ADHERE TO ALL CURRENT ADA AND LOCAL/FEDERAL REGULATIONS (WHICHEVER MORE STRINGENT) FOR ALL ACCESSIBLE ROUTES APPLICABLE FOR THE SUBJECT PROPERTY IMPROVEMENT. IF ANY DISCREPANCIES OCCUR, CURRENT ADA REGULATIONS AND LOCAL REGULATIONS TAKE PRECEDENCE OVER THE PROJECT SITE PLANS.

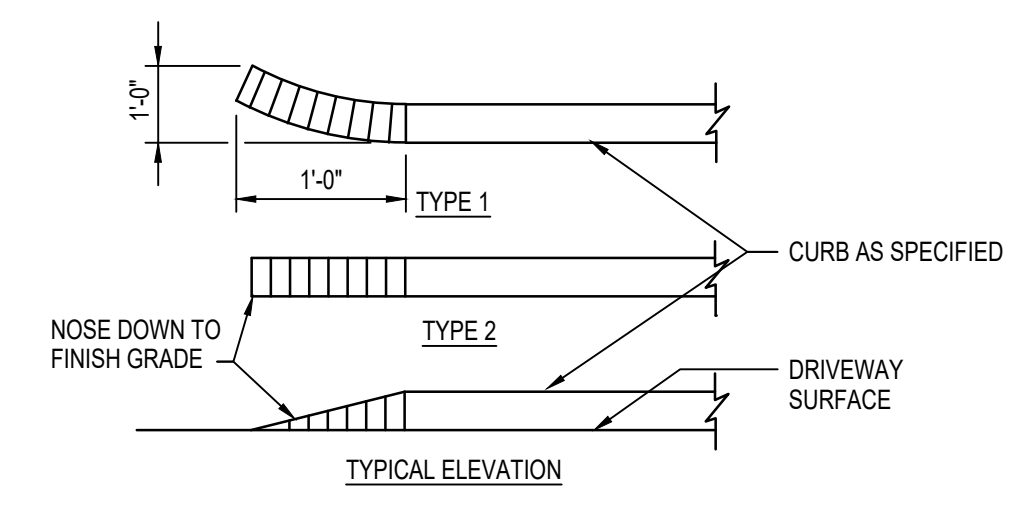
A1 HANDRAIL
N.T.S.



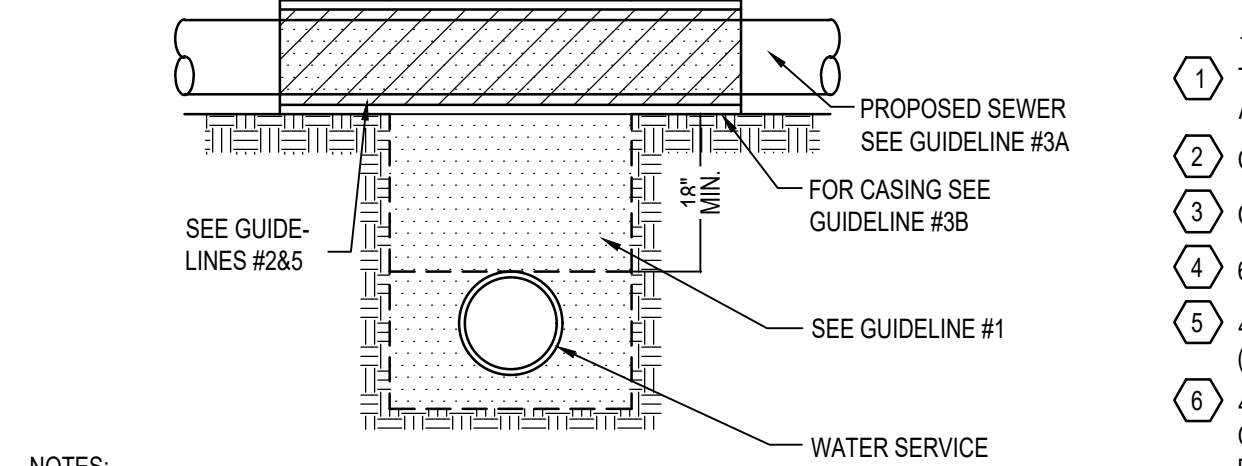
B2 WATER SERVICE TAP
N.T.S.



B3 FINGER DRAIN DETAIL
N.T.S.



B4 CURB TAPER
N.T.S.

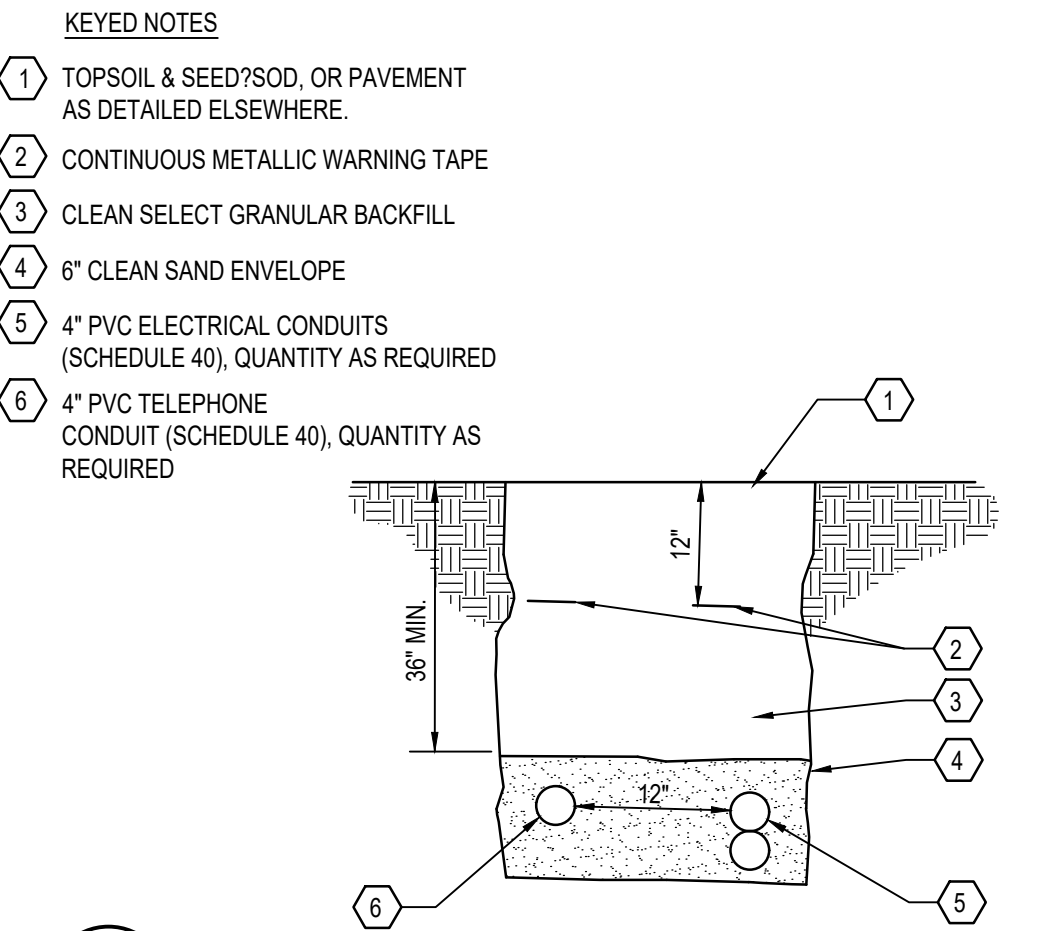


NOTES:
PROPOSED WATER SERVICE BELOW PROPOSED SEWER LINE WITH 18" MINIMUM SEPARATION. GRANULAR MATERIAL TO BE COMPACTED TO 75% OF RELATIVE DENSITY.

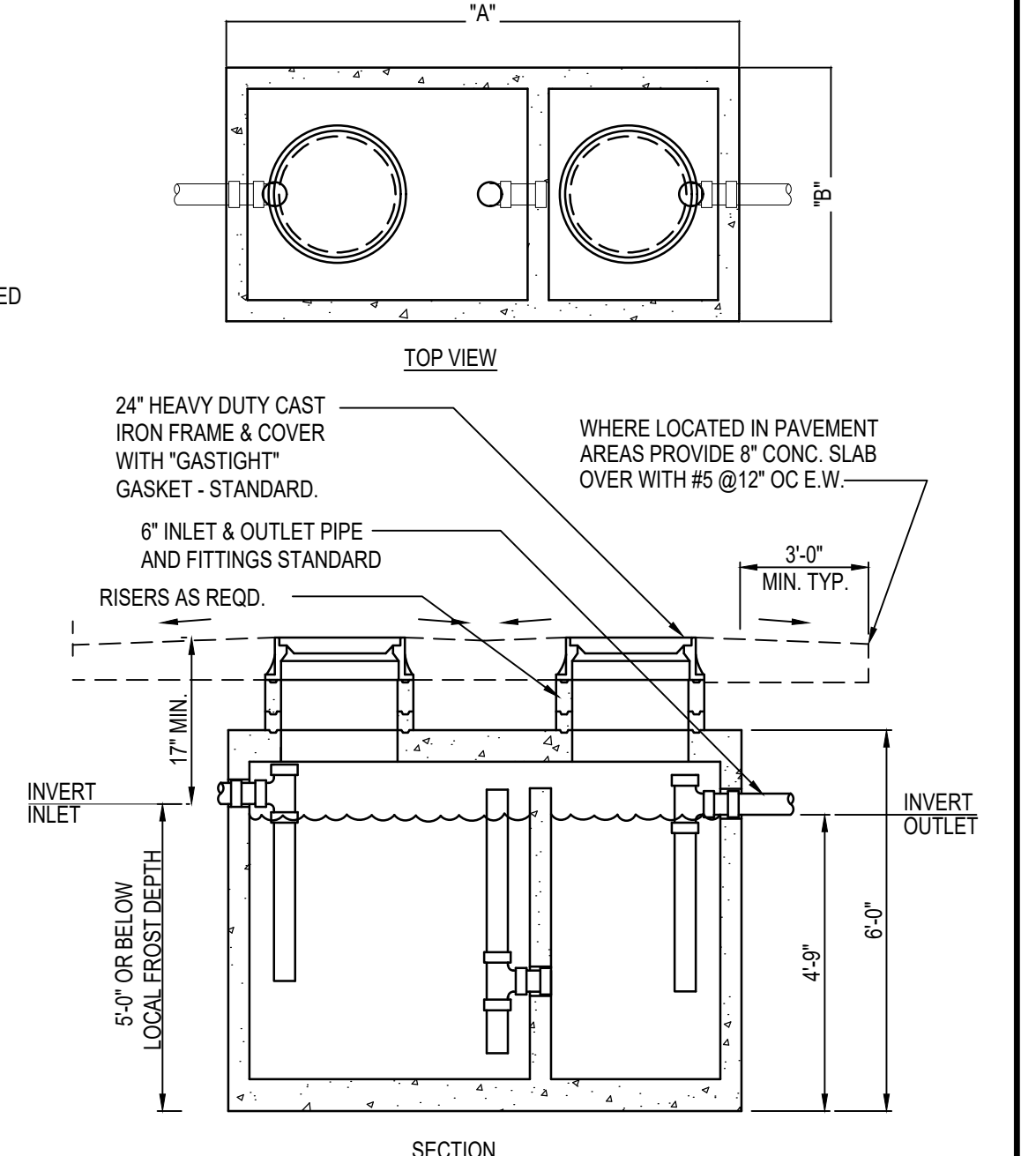
GUIDELINES:

- IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL AND COMPACT.
- OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL AND COMPACT FOR 10 FEET ON EITHER SIDE OF WATER MAIN
- A. CONSTRUCT 10 FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR; B. USE 10 FEET OF CASING FOR PROPOSED SEWER AND SEAL ENDS OF CASING.
- POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
- PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

A3 WATER & SEWER TRENCH SEPARATOR
N.T.S.



A4 ELECTRICAL & COMMUNICATIONS SERVICE TRENCH
N.T.S.



| G.T. SIZE | DIM. "A" | DIM. "B" |
|-------------|----------|----------|
| 500 GALLON | 6'-2" | 4'-2" |
| 750 GALLON | 8'-1" | 4'-0" |
| 1000 GALLON | 8'-2" | 5'-1" |
| 1200 GALLON | 8'-6" | 5'-9" |
| 1500 GALLON | | |

* PER MANUFACTURER SPECIFICATIONS.

GC SHALL INSTALL GREASE INTERCEPTOR, (G.I.) AS APPROVED BY LOCAL WASTEWATER JURISDICTION. INSTALLATION SHALL INCLUDE VENT, SAMPLING PORT/ MANHOLE, REINF. CONCRETE TRAFFIC LID, ETC. AS REQUIRED PER WASTEWATER DEPARTMENT STANDARDS. G.I. SHALL BE DESIGNED FOR H20 VEHICLE LOADS.

A5 EXTERIOR GREASE INTERCEPTOR
N.T.S.

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| IFC | 05.31.18 |
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| CONTRACT DATE: | 01.08.18 |
| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

TACO BELL
20779 13 MILE RD.
ROSEVILLE, MI



T40
OPEN KITCHEN
MODERN EXPLORER

DETAILS

C-502

Landscape Notes & Planting Specifications

Scope Of Work

- This work shall consist of performing clearing and grubbing, soil preparation, finish grading, planting and drainage, including all labor, materials, tools, equipment, and any other appurtenances necessary for the completion of this project.
- Quantity takeoff is supplied for contractor's assistance only. Contractor is responsible for supplying all plant materials as per plan.
- No additional compensation shall be paid to the contractor for damage and repair within easement or right-of-way limits.

Preservation/Protection (If Applicable)

- Contractor shall maintain and preserve trees and shrubs not being removed, including their roots. Tree protection fencing shall be used at the drip line of all trees and shrubs within 50 feet of construction except as shown on plan. Fencing shall remain in place until final plant inspection following construction. Materials shall not be stockpiled within this defined area and vehicles and other equipment shall be operated to avoid soil compaction.
- Feeder roots should not be cut in an area equal to twice the tree circumference (measured 6" above the ground line in inches) expressed in feet. (example: a circumference of 10" would have a 'no cut' zone of 20 feet in all directions from the tree). This should apply to utility services, if feasible. The only exception to this requirement will be those specifically allowed by the landscape architect, specifications or as indication on the plans.
- Tree trunks and exposed roots damaged during equipment operations shall be treated in accordance with the arbor cultural standards of the city.

Plant Materials

- General - all materials shall be of its kind available and shall have been grown in a climate similar to that on site.
- Plants - all plants shall be healthy, of normal growth, well rooted, free from disease and insects. Quality and size of plant material shall conform to ANSI Z60.1 "American Standards for Nursery Stock".
- Varieties and sizes of plants shall be as shown on drawings.
- Plants shall be in a healthy, vigorous condition, free of dead or broken branches, scars that are not completely healed, frost cracks, disfiguring knots, broken or abraded bark, redundant leaders or branches, or aberrations of any kind. Plants shall not have multiple leaders, unless this is the natural form.
- Balled and burlapped (B&B) plants shall be dug with a firm root ball of natural earth, of a size in proportion to the plant's size, as measured by caliper, height, or spread. Balled and burlapped plants shall be handled only by the root ball, not by the trunk or branches, as this may break or loosen the root ball and damage the root system. Container plants shall have been established for a minimum of one full growing season in their containers before installation. Container plants shall be handled only by the container, not by the stems or branches, as this may pull the plant out of the container and break or loosen the root ball and damage the root system.
- Plants shall be protected from drying out during shipping with tarpaulins or other coverings. Plants shall be protected from drying out after delivery by planting immediately; if this is not possible, the root ball shall be covered with peat moss or earth, and watered frequently to keep it moist until planting.
- Do not handle, move, bind, tie or otherwise treat plants so as to damage the root ball, roots, trunk, or branches in any way.

Topsoil

- Topsoil has been (or will be) stockpiled for reuse in landscape work. If quantity of stockpiled topsoil is insufficient, provide additional topsoil as required to complete landscape work. Imported topsoil shall consist of loose, friable, loamy topsoil without admixture of subsoil or refuse. Acceptable topsoil shall contain not less than 3 percent nor more than 20 percent organic matter.
- Planting backfill for parking lot islands shall consist of a homogeneous mixture of 3 parts topsoil to one part sphagnum peat installed over a 6" thickness of no. 57 aggregate.

Soil Conditioning

- Obtain laboratory analysis of stockpiled and imported topsoil complete with recommendations for soil amendment.
- Before mixing, clean topsoil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful or toxic to plant growth.
- Mix specified soil amendments and fertilizers with topsoil at rates specified by the lab report. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
- For planting beds and lawns, mix planting soil either prior to planting or apply on surface of topsoil and mix thoroughly before planting. Mix lime with dry soil prior to mixing of fertilizer.
- Prevent lime from contacting roots of acid-loving plants.
- Apply phosphoric acid fertilizer (other than that constituting a portion of complete fertilizers) directly to subgrade before applying planting soil and tilling.

Other Materials

- Bed edging - edging shall be 4" steel edging with three (3) metal anchor stakes per 20 foot section. All mass planting beds shall have edging placed between mulch area and any adjacent turf area.
- Mulch:
 - River rock mulch area: Mexican Beach aggregate mulch, 3" in size, gray in color, washed and rounded, shall be installed within the river rock mulch area per plan. River rock shall be installed at 6" depth.
 - Non-dried, double shredded hardwood mulch shall be installed in all other landscape beds outside of the river rock mulch area, at a minimum 2" depth.
- Weed barrier - polyethylene filter fabric designed to permit water infiltration while preventing weed growth-to be installed in all planting beds.

General Work Procedures

- Landscape work shall be according to the workmanlike standards established for landscape construction and planting in the Michigan standardized landscape specifications (ASLA) and any local landscape ordinances.
- Contractor shall obtain a copy of local ordinances regarding acceptable plant and planting details and abide by those ordinances and details.
- Engineer reserves the right to reject all plant material deemed not acceptable.
- Any proposed plant substitutions shall be equivalent in form, habit, structure, branching and leaf type and must be issued to the landscape architect for approval, in writing, prior to installation.

Weeding

- Before and during preliminary grading and finish grading, all weeds and grasses shall be dug out by the roots and disposed of at the contractor's expense.

Planting

- Position trees and shrubs at their intended locations as per the plans and secure the approval of the owner before excavating pits, making necessary adjustments as directed.
- Planting pits shall be as per details.
- Prepared soil shall be tamped firmly at bottom of pit. Fill prepared soil around ball of plant. Complete backfilling and water thoroughly.
- Prepare raised earth basin as wide as planting hole of each plant.
- Water immediately after planting. Water shall be applied to each tree and shrub in such manner as not to disturb backfill and to the extent that all materials in the planting hole are thoroughly saturated.
- Install bed edging and mulch.
- Remove all sales tags, strings, straps, wire, rope or other materials that may inhibit plant growth both above and below the surface of the soil.
- Remove any broken, suckering, diseased, crisscrossed or aesthetically displeasing branches back to live leader or side lateral with a flush cut.
- Mulch trees and shrubs and other areas noted on the planting plan with a 3" layer of mulch as specified in note 2 of "other materials".

Finish Grading

- All areas will be graded by the contractor to substantially plus/minus 0.1 foot of finish grade.
- All lawn and planting areas shall be graded to a smooth, even, uniform plane with no abrupt change of surface. Soil areas adjacent to the buildings shall slope away from the buildings.
- All planting areas shall be graded and maintained to allow free flow of surface water.
- Parking lot island shall be backfilled as part of this contract.

Ground Cover

- Spacing and variety of ground cover shall be as shown on drawings.
- Mulch ground cover with 2" thickness of sphagnum peat.
- Immediately after planting ground cover, contractor shall thoroughly water ground cover.
- All ground cover areas shall be treated with a pre-emergent before final landscape inspection. Ground cover areas shall be weeded prior to applying pre-emergent. Pre-emergent to be applied as per manufacturer's recommendation.

Guarantee

- Contractor shall guarantee all plants for a period of one (1) year from date of project acceptance by the owner.

Irrigation

- Contractor shall provide & install an irrigation system to provide 100% coverage of the site. Areas within 5 feet of building walls shall be irrigated by drip irrigation or similar. Contractor shall ensure building walls and windows will not be damaged or stained by improper irrigation installation or poor selection of fixtures. System shall include all appurtenances & be approved by owner.
- Irrigation contractor shall provide a method for winterization. Winterization shall be performed by contractor upon completion if system is installed between November 1 and March 31.

Cleanup

- Upon the completion of all planting work and before final acceptance, the contractor shall remove all material, equipment, and debris resulting from his work. An 'acceptable condition' shall be as defined and approved by the owner's authorized representative.

Maintenance

(maintenance period to commence after final inspection.)

- Maintenance period for this contract shall be 90 calendar days commencing after final inspection of construction.
- Maintain trees, shrubs and other plants by pruning, cultivating and weeding as required for healthy growth. Restore planting saucers. Reset trees and shrubs to proper grades or vertical position as required.
- Maintain lawns by watering, mowing, trimming, and other operations such as rolling, regrading and replanting as required to establish a smooth, acceptable lawn, free of eroded or bare areas.
- Maintain the landscaping by keeping all plants disease-free and planting beds groomed, except in naturally occurring vegetation areas.
- Replace any required planting(s), which severely decline or die after the date of planting. Such replacement shall occur during the next appropriate planting season.

Seeding

- Grass seed shall be fresh, clean, dry, new-crop seed complying with the association of official seed analysts' "rules for testing seeds" for purity and germination tolerances.
- All areas to be seeded shall receive no less than five pounds of seed per one thousand square feet. Apply seed and protect with straw mulch as required for new lawns. Grass seed mix shall consist of the following:

| Proportion | Name | Min. % Cerm. | Min. % Pure Seed | Max. % Weed Seed |
|------------|--------------------------------------|-----------------|------------------------|------------------------|
| 30% | Kentucky bluegrass (poa pratensis) | 80 | 85 | 0.50 |
| 30% | Cresting red fescue (festuca rubra) | 85 | 98 | 0.50 |
| 20% | Perennial rye grass (lolium perenne) | 90 | 98 | 0.50 |
| 20% | Annual ryegrass (lolium multiflorum) | 85 | 92 | 1.00 |

Sodding

- Sod shall be first grade certified Kentucky Bluegrass blend containing not more than 30 percent of other grasses and clovers, and free from all noxious weeds. Sod shall be recently mowed to a height of not less than 3 inches. It shall be cut into strips of not less than 3 feet and not over 6 ft. With a uniform width of not over 24 inches. The sod shall be cut to a depth equal to the growth of the fibrous roots but in no case less than 1 inch. Sod shall be delivered to the job within 24 hours after being cut and shall be installed within 48 hours after being cut. Before sod is placed, the sod bed will have been excavated to such a depth that when the sod is in place the top of the sod will be flush with the surrounding grade. No sod shall be placed when the temperature is below 32 degrees f. No frozen sod shall be placed nor shall any sod be placed on frozen soil. When sod is placed between the dates of June 1st and October 15th, it shall be covered immediately with a straw mulch 1 inch thick (loose measurement). After laying, the sod shall be watered thoroughly and tamped with approved sod tampers sufficiently to bring the sod into close contact with the sod bed and insure tight joints between the sections or strips. The contractor shall keep all sodded areas including subgrade, thoroughly moist for 30 days after sodding. The contractor shall repair any areas damaged following installation as directed by the engineer. Sod shall be in place at least 30 days before final acceptance.

Planting Schedule

- All planting is recommended to be done within the following dates. When planting outside these dates, written documentation shall be provided that survival or replacement will be ensured. No planting shall be done in frozen soil.

| Normal planting seasons | Spring | Fall |
|-------------------------|-----------------|-----------------------|
| all trees and shrubs | march 15-may 15 | october 1-december 1 |
| evergreens | april 1-may 15 | october 1-november 15 |
| groundcovers | april 1-june 1 | when sod is workable |
| seed and mulch | april 1-may 15 | october 1-november 15 |

General Note

- All areas disturbed by construction that are within the right-of-way shall be fine graded to maintain positive drainage, have a 4" layer of topsoil applied and be seeded according to specifications on this sheet.



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| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

TACO BELL

20779 13 MILE RD.
ROSEVILLE, MI



T40

OPEN KITCHEN
MODERN EXPLORER

**LANDSCAPING
NOTES**


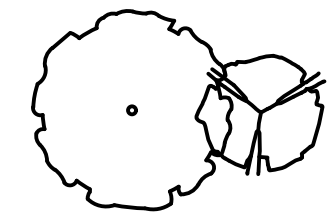


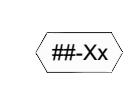
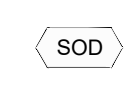

L-001

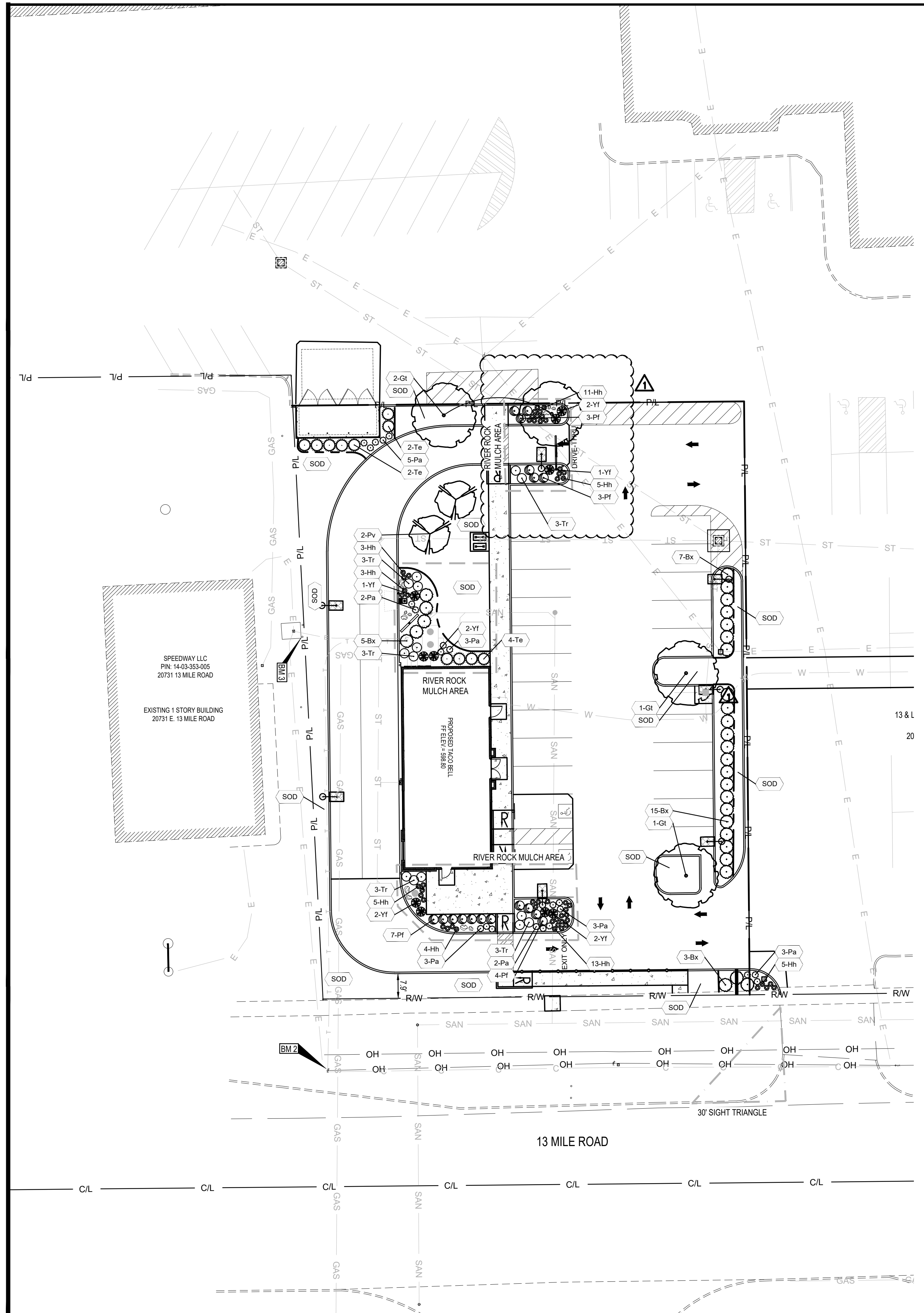
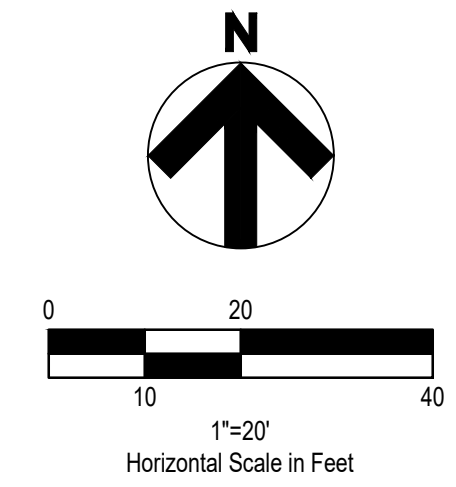
PLOT DATE: 12.19.17

LANDSCAPE NOTES

- MULCH PER LANDSCAPE SPECIFICATIONS.
- ALL DISTURBED AREAS NOT TO BE PAVED OR MULCHED SHALL BE SODDED PER SPECIFICATIONS.

LANDSCAPE LEGEND

-  PROPOSED LANDSCAPE BED EDGE
-  PROPOSED TREE
-  PROPOSED SHRUB
-  PROPOSED GRANITE BOULDER, NATURAL COLOR, 12"-36"
-  PROPOSED PLANT QUANTITY AND SYMBOL
-  PROPOSED LAWN AREA
-  PROPOSED RIVER ROCK GRAVEL AREA. SEE SHEET L-001.



PLANT LIST

| Symbol | Botanical Name | Common Name | Qty. | Min. Size | Condition | Remarks |
|--------|--|-------------------------------|------|--------------|-----------|----------|
| Bx | Buxus x 'Green Gem' | Green Gem Boxwood | 30 | 18" H | B&B | 4' o/c |
| Gt | Gleditsia triacanthos f. inermis 'Skycole' | Skyline Thornless Honeylocust | 4 | 2.5" Cal. | B&B | Specimen |
| Hh | Hemerocallis 'Happy Returns' | Happy Returns Daylily | 53 | No. 1 | Cont. | 1.5' o/c |
| Pa | Pennisetum alopecuroides 'Hameln' | Dwarf Fountain Grass | 22 | No. 2 | Cont. | Per Plan |
| Pf | Potentilla fruticosa 'Goldfinger' | Goldfinger Potentilla | 17 | No. 3, 18" H | Cont. | 3' o/c |
| Pv | Prunus virginiana 'Canada Red' | Canada Red Chokecherry | 2 | 1.5" Cal. | B&B | Matching |
| Te | Thuja occidentalis 'Emerald' | Emerald Arborvitae | 11 | 5' H | B&B | 4' o/c |
| Tr | Thuja occidentalis 'Rheingold' | Dwarf Golden Arborvitae | 14 | No. 5, 24" H | Cont. | Per Plan |
| Yf | Yucca flaccida | Adam's Needle | 10 | No. 3 | Cont. | Per Plan |

LANDSCAPE CALCULATION, BY SQ FOOTAGE

| |
|---|
| REQUIRED LANDSCAPE AREA: 5% OF TOTAL SITE |
| 26,813 SQ FT TOTAL SITE; 5% = 1,341 SQ FT OF TOTAL LANDSCAPE AREA IS REQUIRED |
| PROVIDED LANDSCAPE AREA: |
| 6,534 SQ FT - 3,108 SQ FT OF LAWN BUFFER = 3,516 SQ FT |

LANDSCAPE CALCULATION, BY PARKING

| |
|--|
| REQUIRED: 10 SQ FT PER OFF STREET PARKING SPACE |
| 25 OFF STREET PARKING SPACES X 10 = 50 SQ FT REQUIRED LANDSCAPE AREA |
| PROVIDED LANDSCAPE AREA: |
| 6,534 SQ FT - 3,108 SQ FT OF LAWN BUFFER = 3,516 SQ FT |

BASES OF BEARING:
STATE PLANE GRID SOUTH ZONE,
INTERNATIONAL FEET, GROUND DISTANCE
NAD83

BENCHMARK 1
NORTHWESTERLY BOLT ON LIGHT POLE
N 376985.29, E 13516868.69
ELEV. = 597.00'

BENCHMARK 2
BENCH TAG IN UTILITY POLE
N 376962.68, E 13516528.29
ELEV. = 601.75'

BENCHMARK 3
SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD
N 377100.42, E 13516520.36
ELEV. = 599.29'

MICHIGAN'S ONE-CALL
UTILITY NOTIFICATION ORGANIZATION

THREE FULL WORKING DAYS BEFORE YOU DIG.
CALL THE MISS DIG SYSTEM AT
1-(800)-482-7171

OR CALL #DIG
FREE FROM YOUR AT&T OR CINGULAR CELLULAR PHONE

THE MISS DIG MEMBER UTILITIES WILL MARK THE APPROXIMATE LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO CHARGE.

- ▲ IFC 05.31.18
 - ▲ BULLETIN 1 05.31.18
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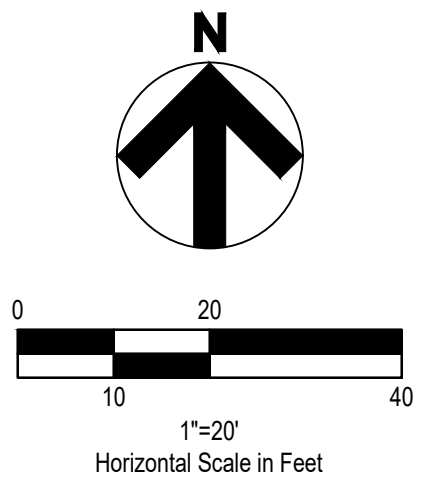
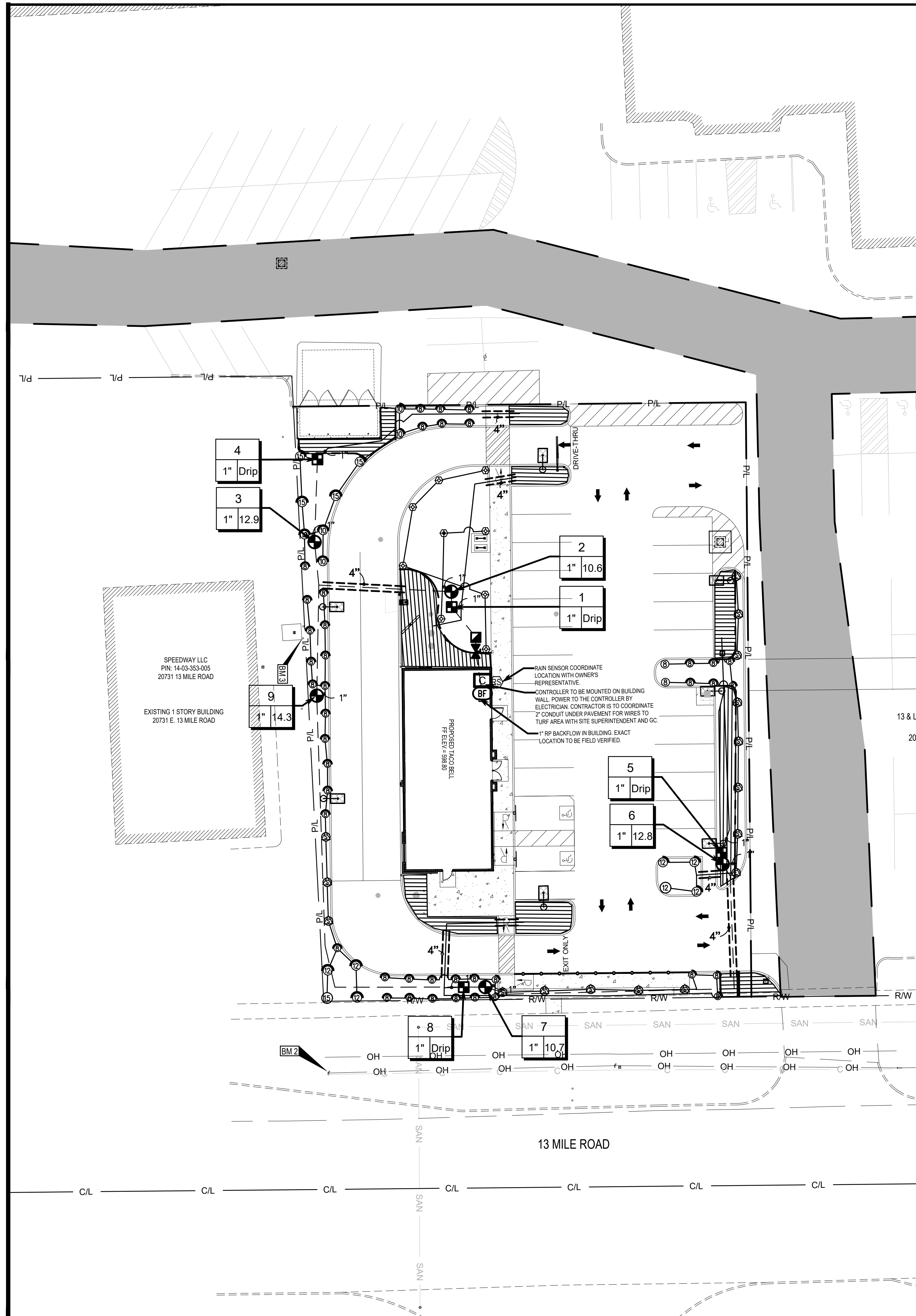
TACO BELL
20779 13 MILE RD.
ROSEVILLE, MI

T40
OPEN KITCHEN
MODERN EXPLORER

LANDSCAPE PLAN

L-101

PLANT DATE: 12.19.17



IRRIGATION NOTES

THESE NOTES ARE PRESENTED AS A "SUMMARY" OF THE WRITTEN SPECIFICATIONS ISSUED FOR THE PROJECT. REFER TO THE WRITTEN SPECIFICATIONS, IF INCLUDED, FOR ADDITIONAL DETAIL AND FULL PROJECT REQUIREMENTS.

1. THE IRRIGATION SYSTEM DESIGN IS BASED ON 60 STATIC PRESSURE (PSI) AND MAXIMUM FLOW OF 16 GALLONS PER MINUTE (GPM). THE IRRIGATION CONTRACTOR SHALL VERIFY THE PRESSURE AND FLOW PRIOR TO COMMENCEMENT OF CONSTRUCTION. REPORT TO THE OWNER OR OWNER'S REPRESENTATIVE ANY DIFFERENCES BETWEEN THE PRESSURE INDICATED AND THE ACTUAL PRESSURE READING AT THE POINT OF CONNECTION.
2. THE PIPE ROUTING SHOWN IS DIAGRAMMATIC ONLY. ALL PIPING, VALVES, HEADS, ETC SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. PRESSURE LOSS CALCULATIONS ARE BASED ON THE PIPE ROUTING AS SHOWN. SIGNIFICANT DEVIATIONS FROM THE ROUTING SHOWN SHOULD BE AVOIDED.
3. DO NOT WILLINGLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE DIMENSIONS OF THE CONSTRUCTED AREAS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE IRRIGATION DESIGN OR CHANGES HAVE OCCURRED IN THE SITE PLAN. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE IRRIGATION DESIGNER AND THE GENERAL CONTRACTOR IMMEDIATELY. SHOULD THE IRRIGATION CONTRACTOR PROCEED WITH THE INSTALLATION WITHOUT NOTIFYING THE IRRIGATION DESIGNER AND THE GENERAL CONTRACTOR, THE IRRIGATION CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL REVISIONS / RECONSTRUCTION NECESSARY.
4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF / HERSELF WITH THE SITE, ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, AND INSTALLED UTILITIES. COORDINATE WORK WITH THE OWNER OR GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES UNDERNEATH PAVEMENT AND THROUGH WALLS.
5. DUE TO THE SCALE OF THE DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, JOINTS, ETC. WHICH MAY BE REQUIRED. THE IRRIGATION CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS/HER WORK AND PLAN HIS/HER WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC. AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. ALL WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM COMPONENTS, LANDSCAPE PLANTING, AND ARCHITECTURAL FEATURES.
6. FLUSH ALL LINES AND HEADS PRIOR TO INSTALLING NOZZLES. ADJUST NOZZLE SPRAY ARC AND RADIUS FOR OPTIMUM PERFORMANCE TO PREVENT OVERSPRAY ONTO PAVED SURFACES OR FACE OF BUILDING AS MUCH AS POSSIBLE TO FIT THE SITE CONDITIONS. THROTTLER FLOW CONTROL AT EACH VALVE FOR OPTIMUM OPERATING PRESSURE FOR EACH ZONE.
7. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED.
8. WHEN VERTICAL OBSTRUCTIONS (POLES, SIGNS, TREES, HYDRANTS, ETC) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, THE CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD, OR HALF CIRCLE HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST.
9. USE TEFLON TAPE ON ALL MALE PIPE THREADS ON PVC PIPE, SWING JOINTS, AND VALVE ASSEMBLIES.
10. INSTALL VALVE BOXES 18-INCHES FROM AND PERPENDICULAR TO WALKS, CURBS, BUILDING, OR LANDSCAPE FEATURES. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE INSTALLED A MINIMUM OF 12-INCHES APART.
11. ALL VALVES SHALL BE PLACED IN VALVE BOXES AS SHOWN IN THE DETAILS AND ALL ELECTRICAL CONNECTIONS SHALL BE SEALED WITH WATERPROOF CONNECTORS.
12. 120-VOLT ELECTRICAL POWER AT THE CONTROLLER SHALL BE PROVIDED BY OTHERS. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE POWER PROVIDED TO THE CONTROLLER.
13. PROVIDE AS-BUILT DRAWINGS WITHIN 21 DAYS UPON COMPLETION OF THE IRRIGATION INSTALLATION.
14. THERE SHALL BE NO SUBSTITUTIONS OR CHANGES TO THE IRRIGATION DESIGN ALLOWED WITHOUT DIRECT, WRITTEN APPROVAL FROM THE IRRIGATION CONSULTANT OR THE LANDSCAPE ARCHITECT. CONTACT WC3 DESIGN FOR INFORMATION.
15. ALL SPRINKLERS, VALVES AND VALVE BOXES SHALL BE PLACED 5' AWAY FROM ANY RADIUS OF CURB AS SHOWN IN DETAILS.
16. IRRIGATION CONTRACTOR SHALL PROVIDE THE FIRST WINTERIZATION BLOW OUT. IN ADDITION, HE SHALL PROVIDE THE SPRING TURN ON. ALL NECESSARY HEAD ADJUSTMENTS SHALL BE MADE AT THAT TIME AND REPLACE OR REPAIR ANY WARRANTY ITEMS. THESE ITEMS SHALL BE INCLUDED WITH BID.
17. SLEEVING BY GENERAL CONTRACTOR.

IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL |
|---------------|---|
| | Toro 570Z-4P-COM 8 Series |
| | Toro 570Z-4P-COM 10 Series |
| | Toro 570Z-4P-COM 12 Series |
| | Toro 570Z-4P-COM 15 Series |
| | Toro 570Z-4P-COM ADJ |
| | Toro 570Z-4P-COM Turf Strip Spray |
| | Toro PRN-TA, TF 570Z-4P-COM ADJ |
| SYMBOL | MANUFACTURER/MODEL |
| | Toro DZK-TPV-I-MF |
| | Area to Receive Dripline |
| | Toro RGP-41B (1B) |
| SYMBOL | MANUFACTURER/MODEL |
| | Toro TPV-F-100 |
| | Toro 100-SLVLC |
| | Nibco TI-B |
| | Zurn 375 1" |
| | Toro EVO-040D with (02) EMOD-04 |
| | Toro EVO-W5 |
| | Irrigation Lateral Line: PVC Class 200 SDR 21 |
| | Irrigation Mainline: PVC Class 200 SDR 21 |
| | Pipe Sleeve: PVC Schedule 40 |
| Valve Callout | |
| | Valve Number |
| | Valve Flow |
| | Valve Size |

BASES OF BEARING:
STATE PLANE GRID SOUTH ZONE,
INTERNATIONAL FEET, GROUND DISTANCE
NAD83

BENCHMARK 1
NORTHWESTERLY BOLT ON LIGHT POLE
N 376985.29, E 13516868.69
ELEV. = 597.00'

BENCHMARK 2
BENCH TAG IN UTILITY POLE
N 376962.68, E 13516528.29
ELEV. = 601.75'

BENCHMARK 3
SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD
N 377100.42, E 13516520.36
ELEV. = 599.29'

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GPD GROUP
Professional Corporation

520 South Main Street, Suite 2531
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330.572.2100 Fax: 330.572.2102

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Irrigation Design & Consulting
www.wc3design.com
Tel: (844) 231-7042
Columbus, OH • Louisville, KY
Pittsburgh, PA



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| CONTRACT DATE: | 01.08.18 |
| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

TACO BELL
20779 13 MILE RD.
ROSEVILLE, MI

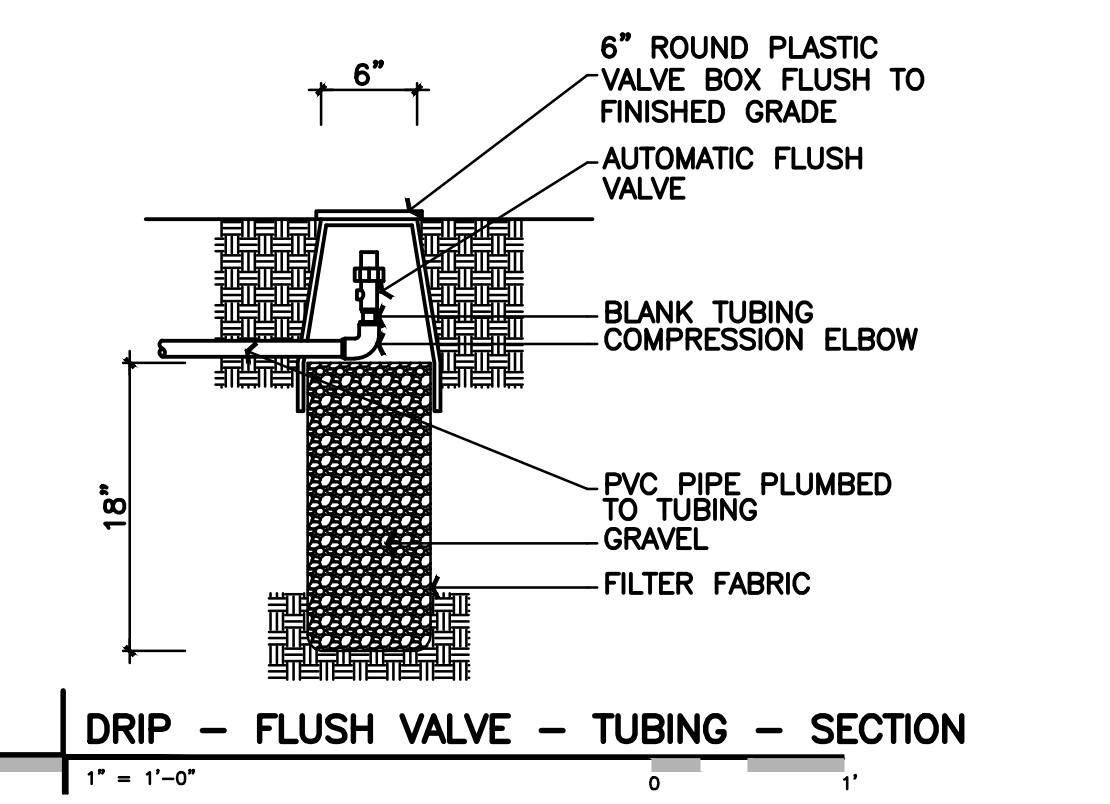
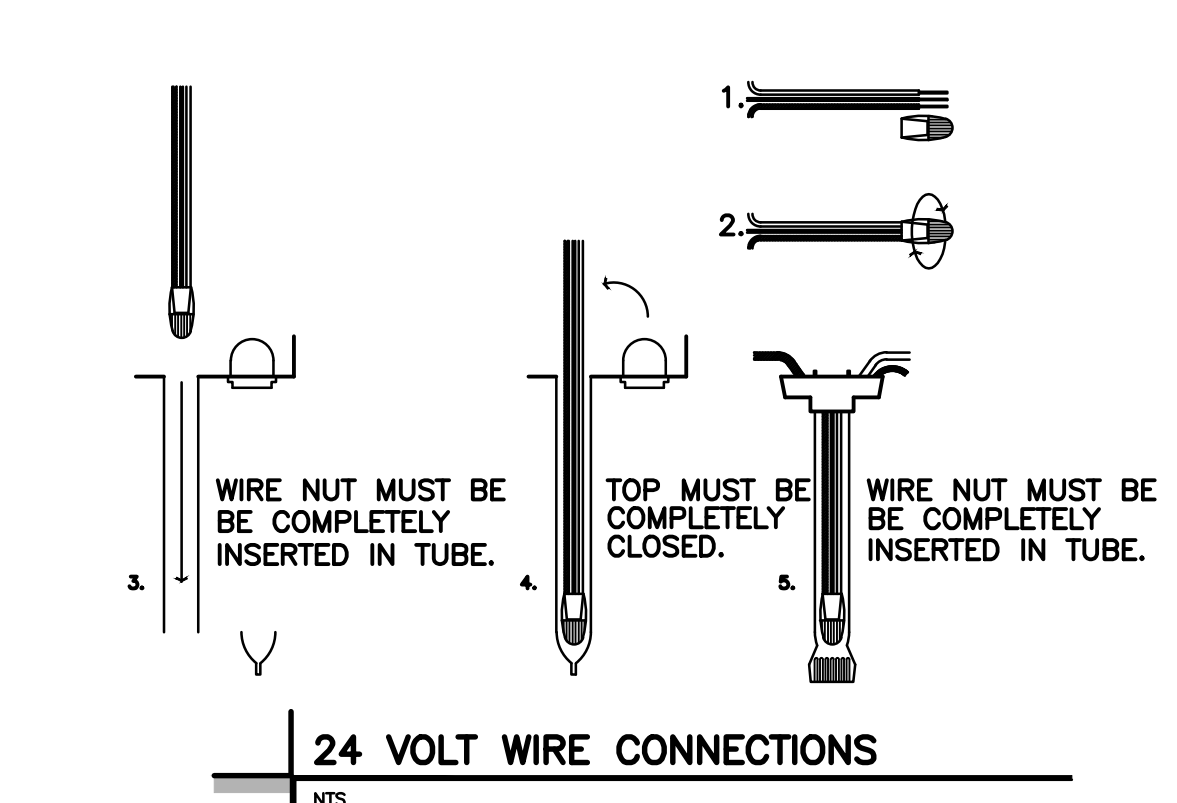
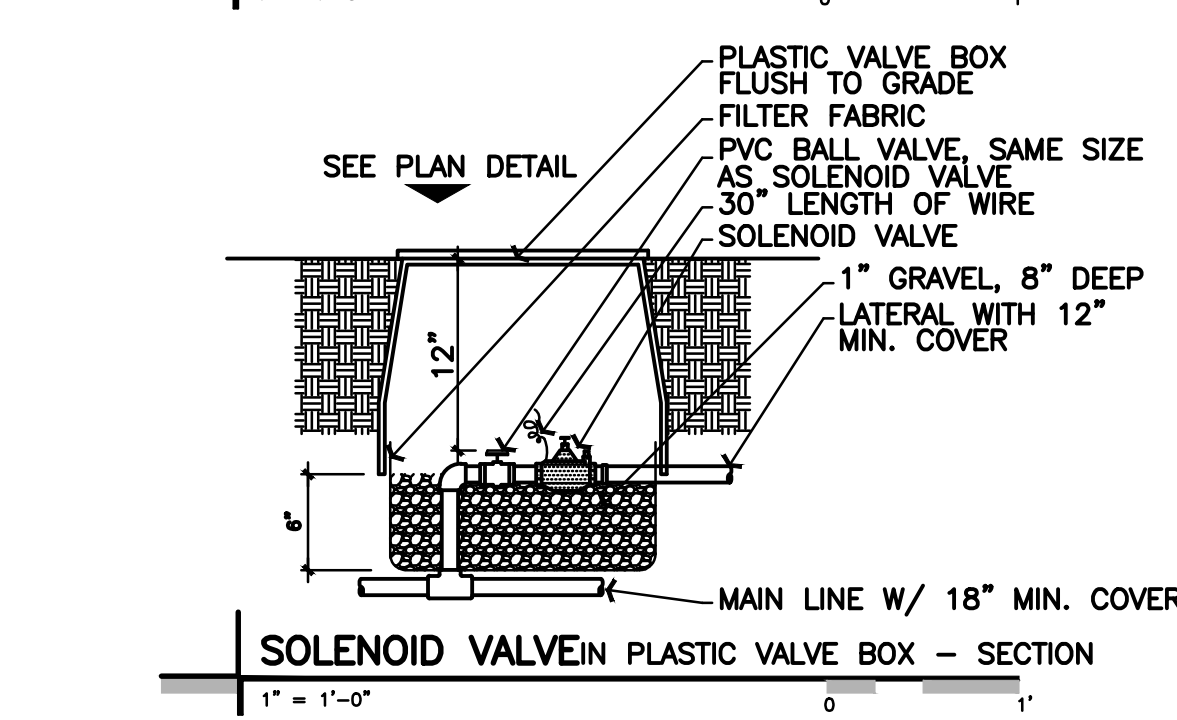
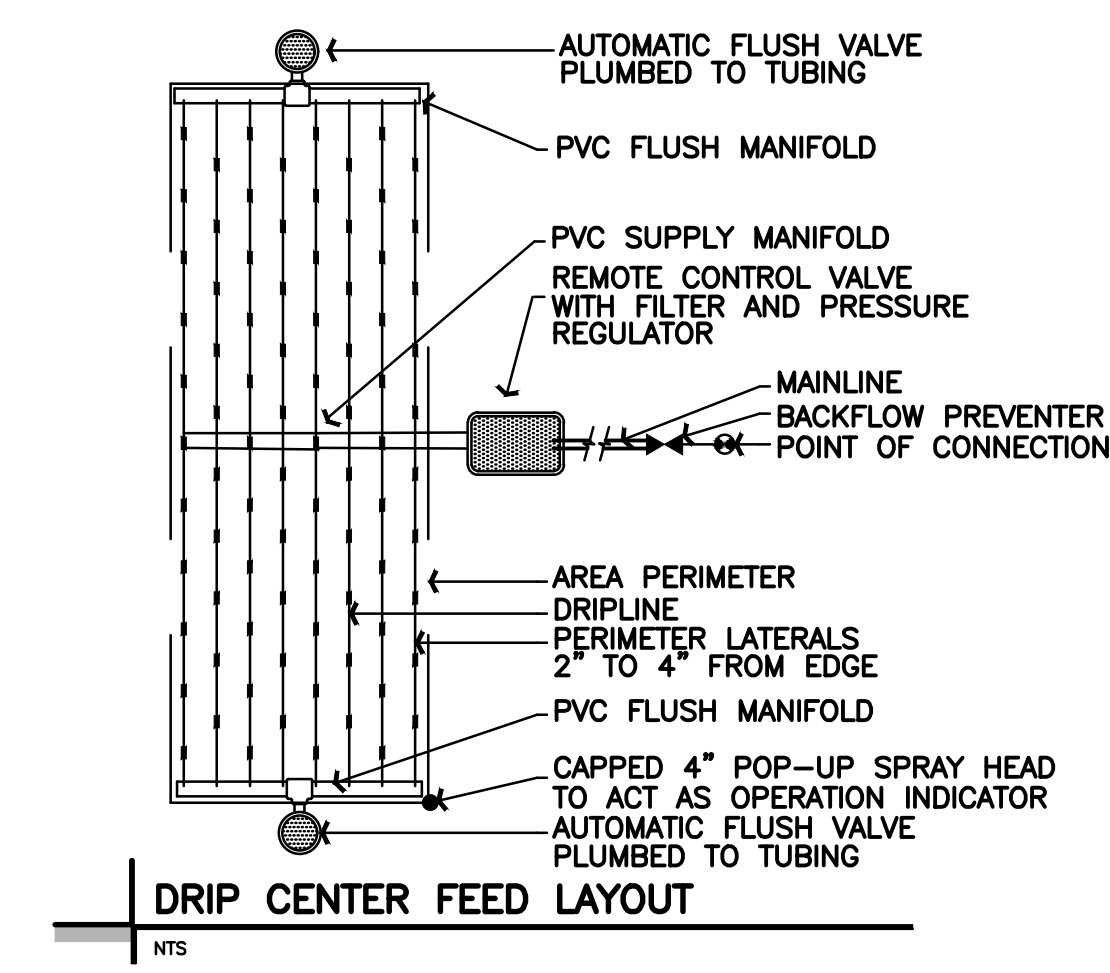
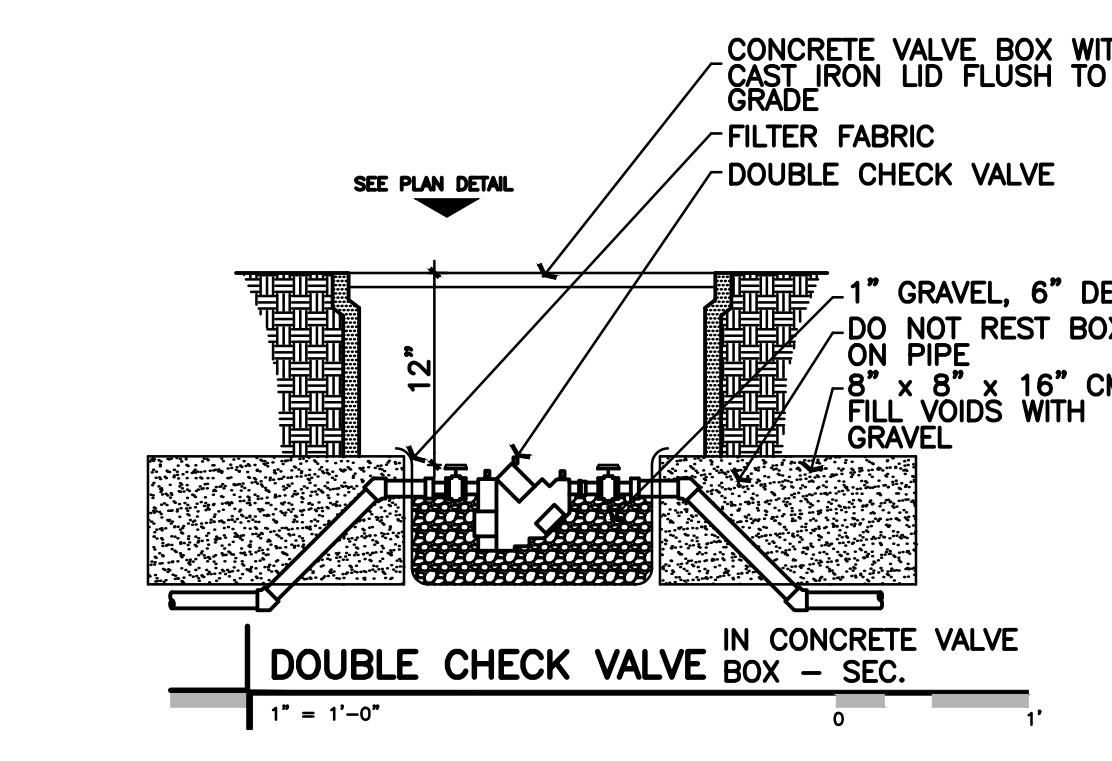
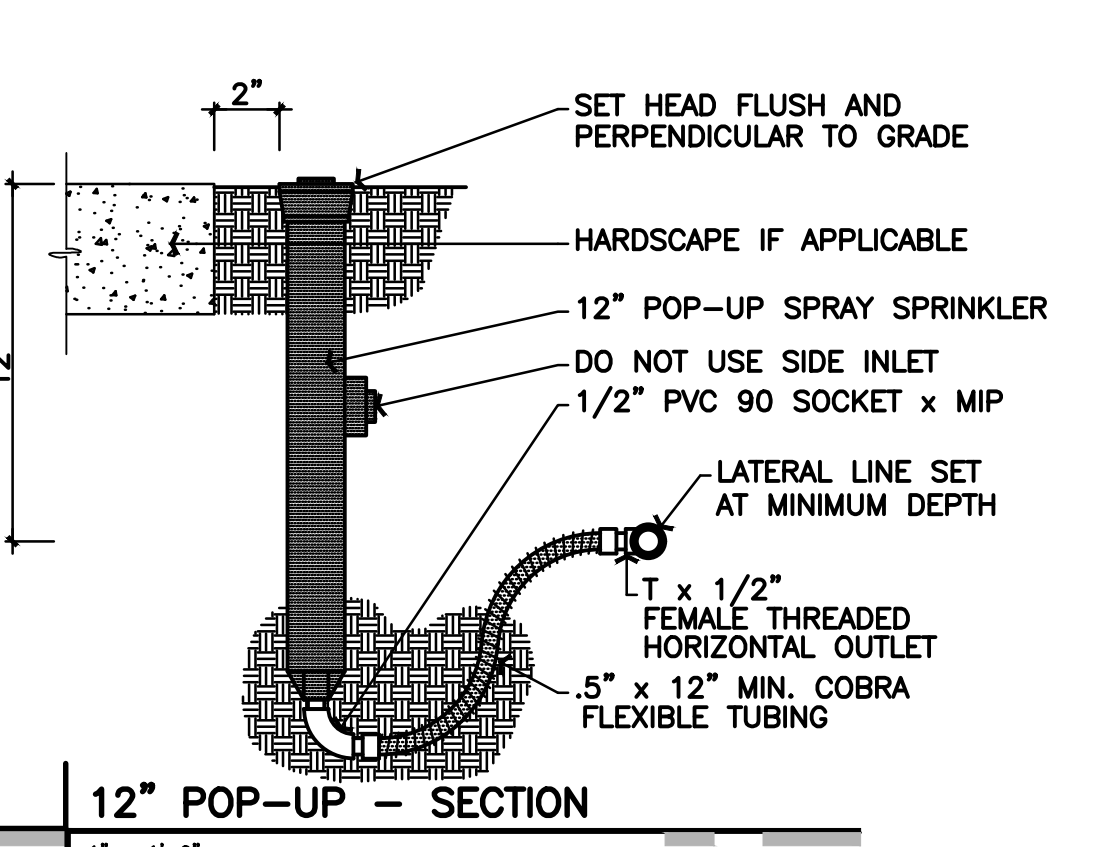
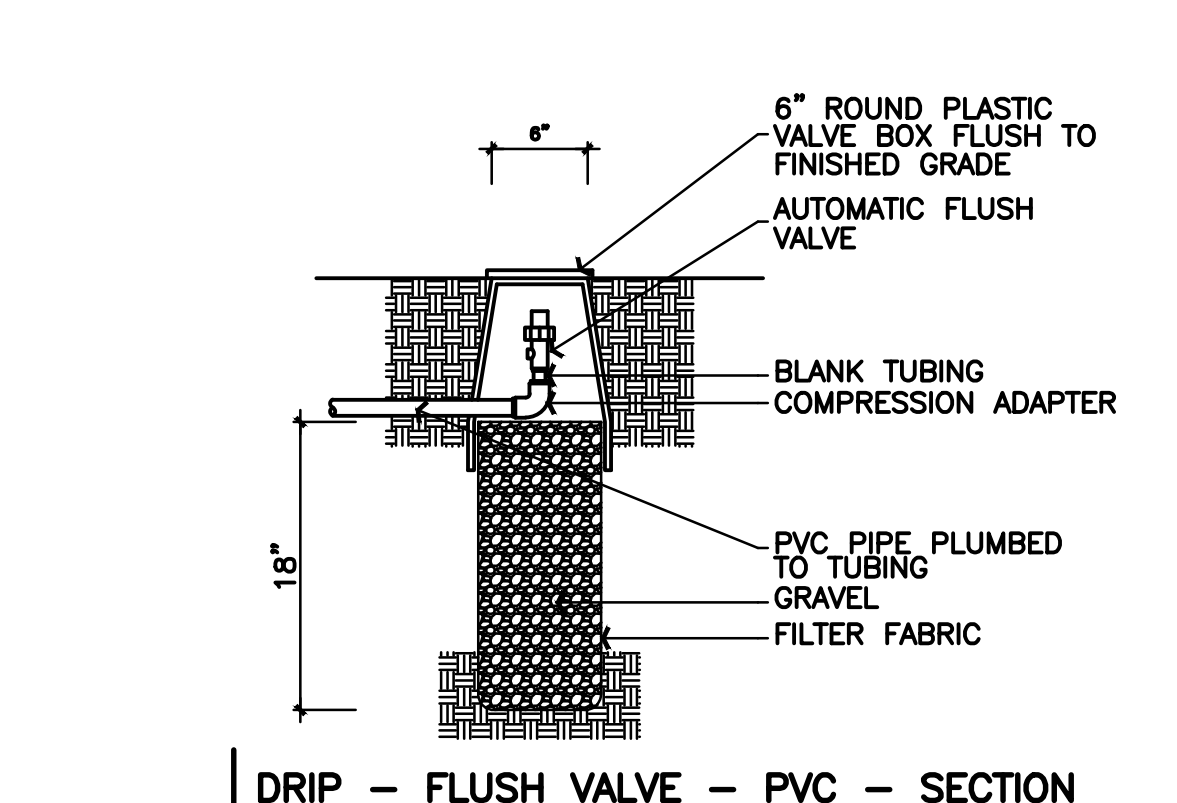
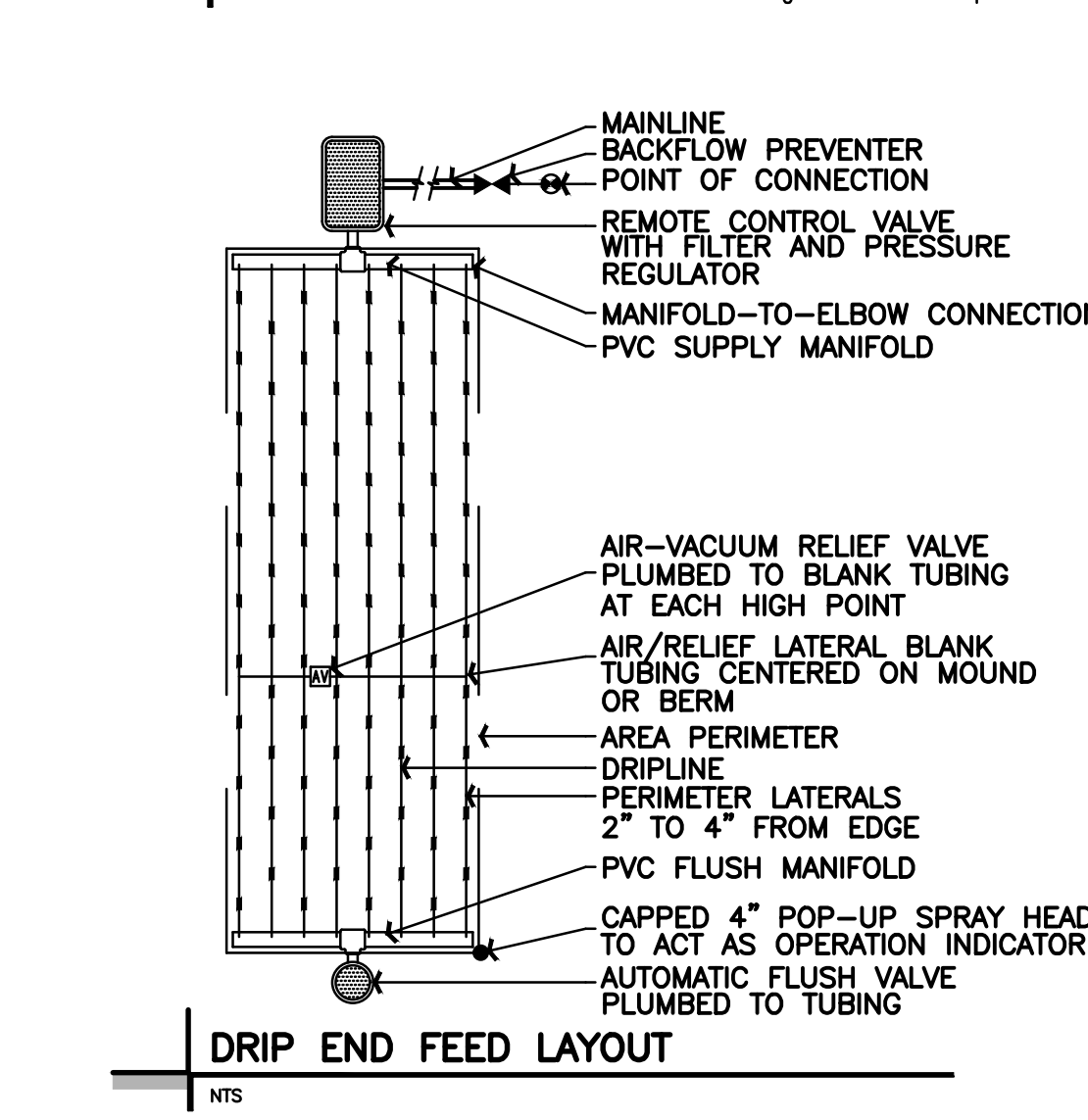
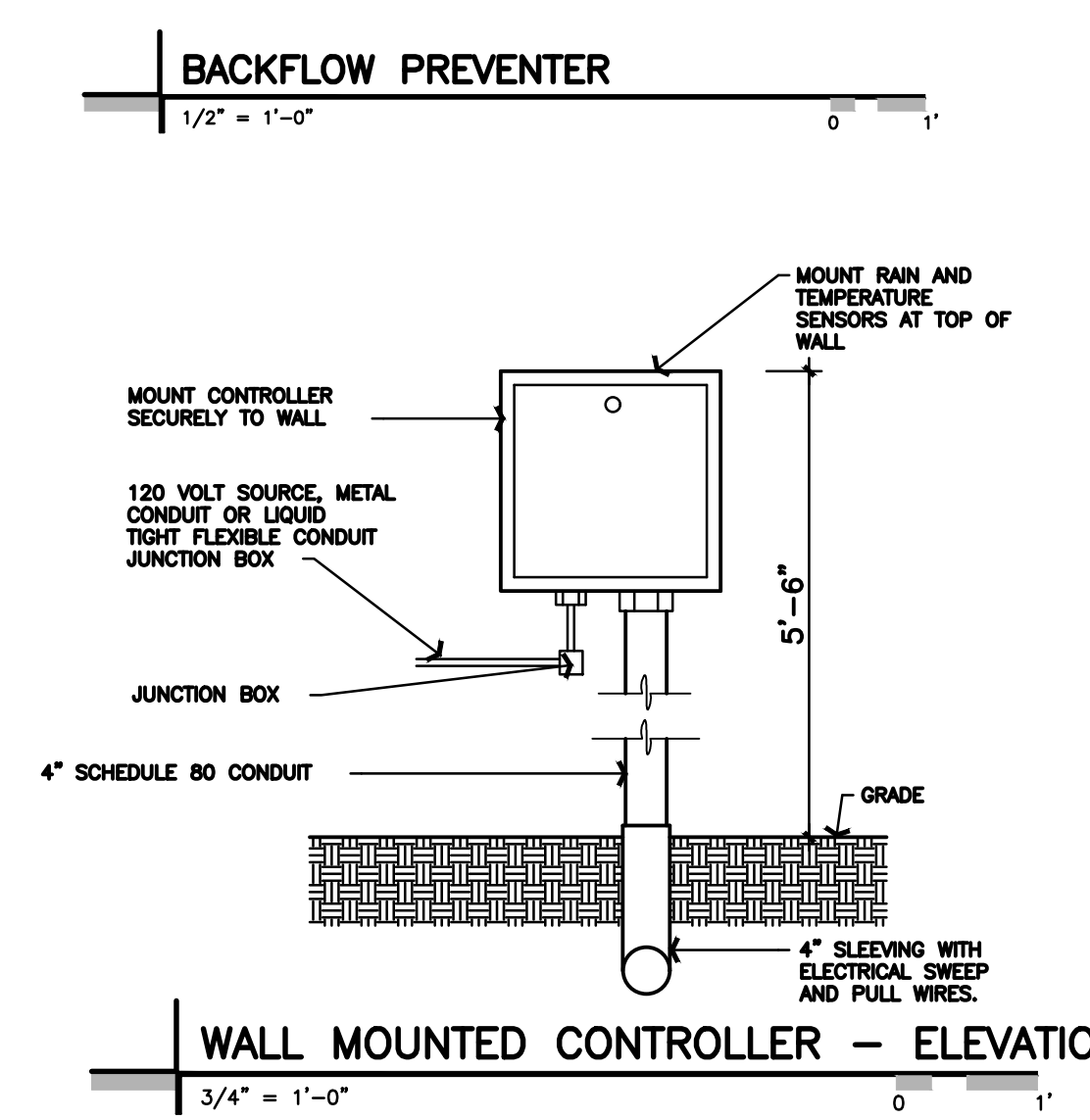
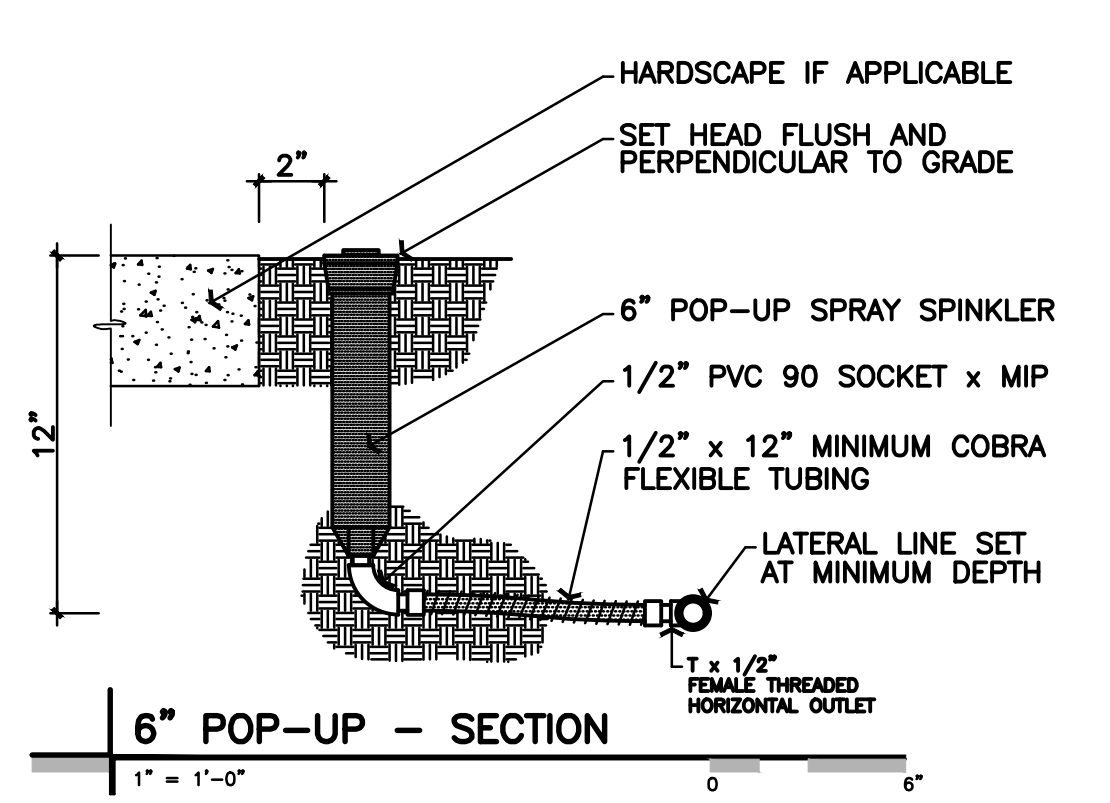
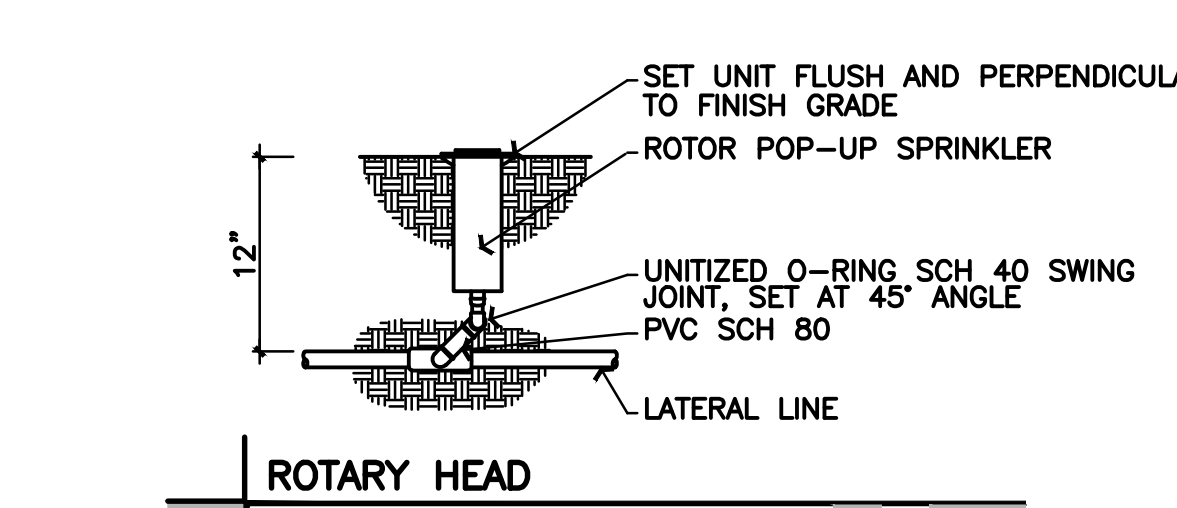
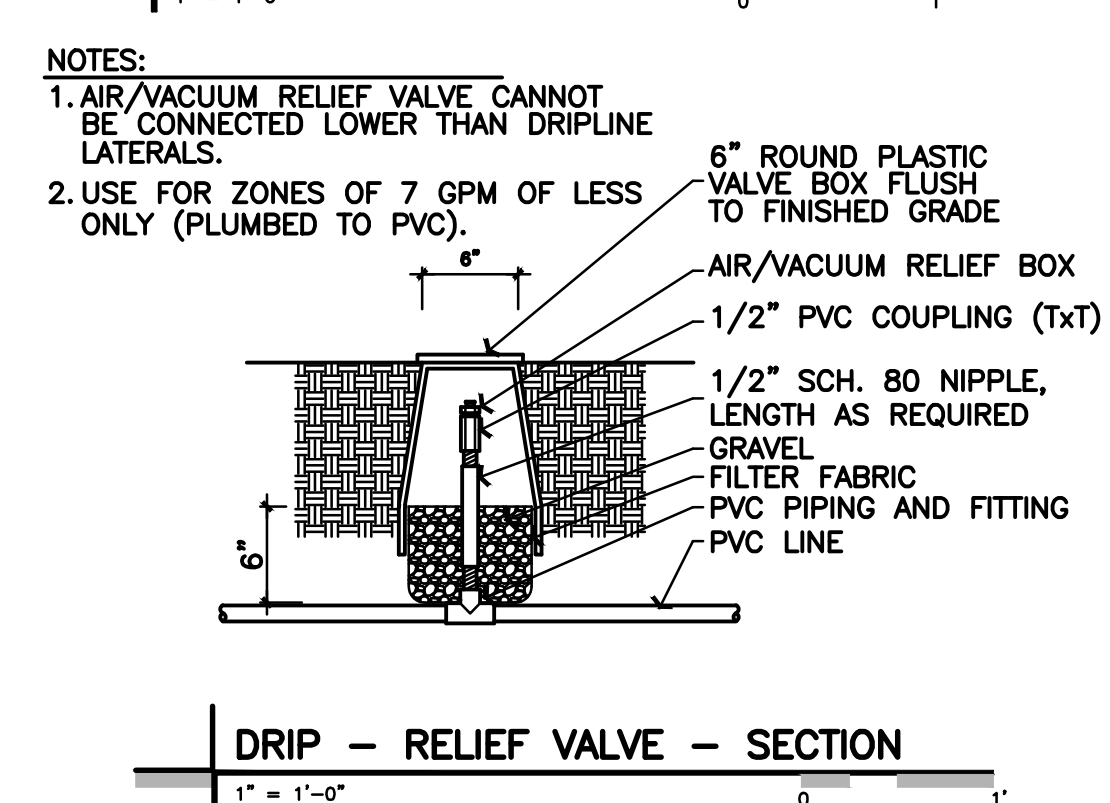
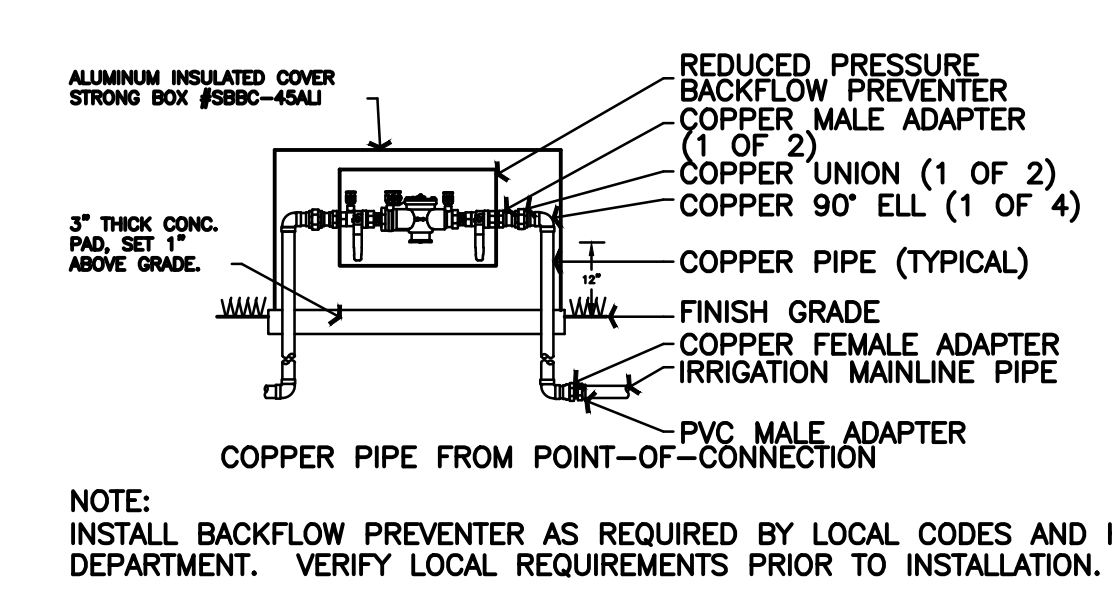
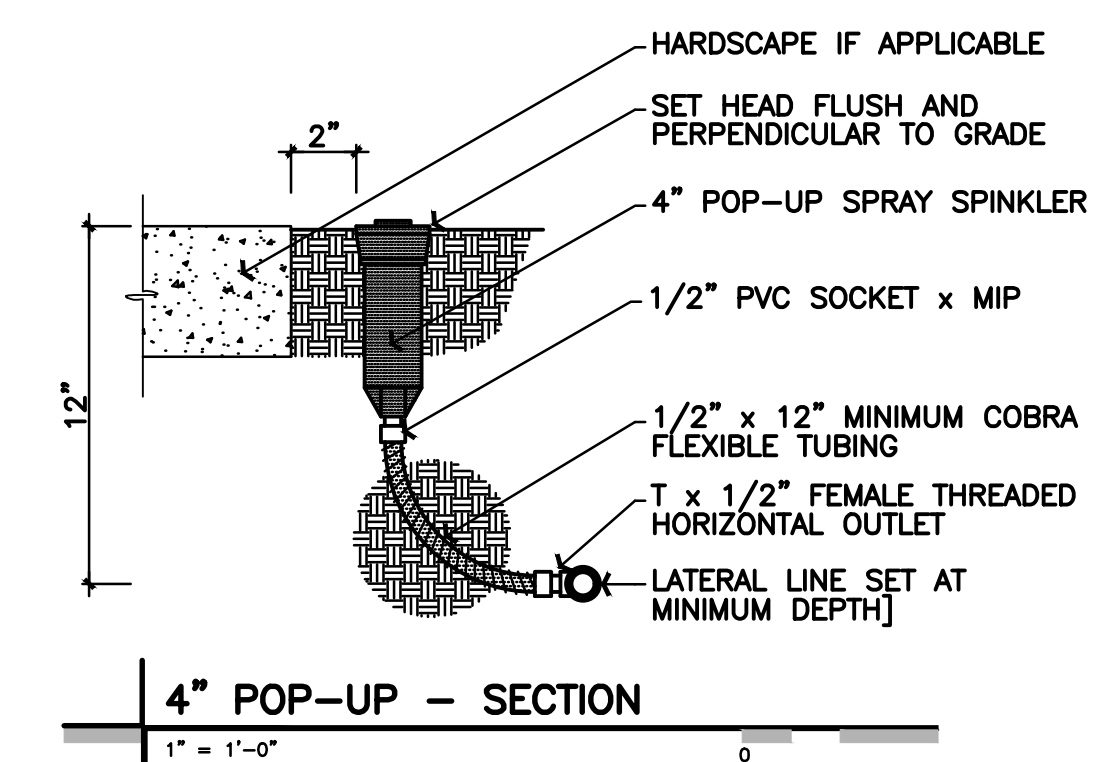
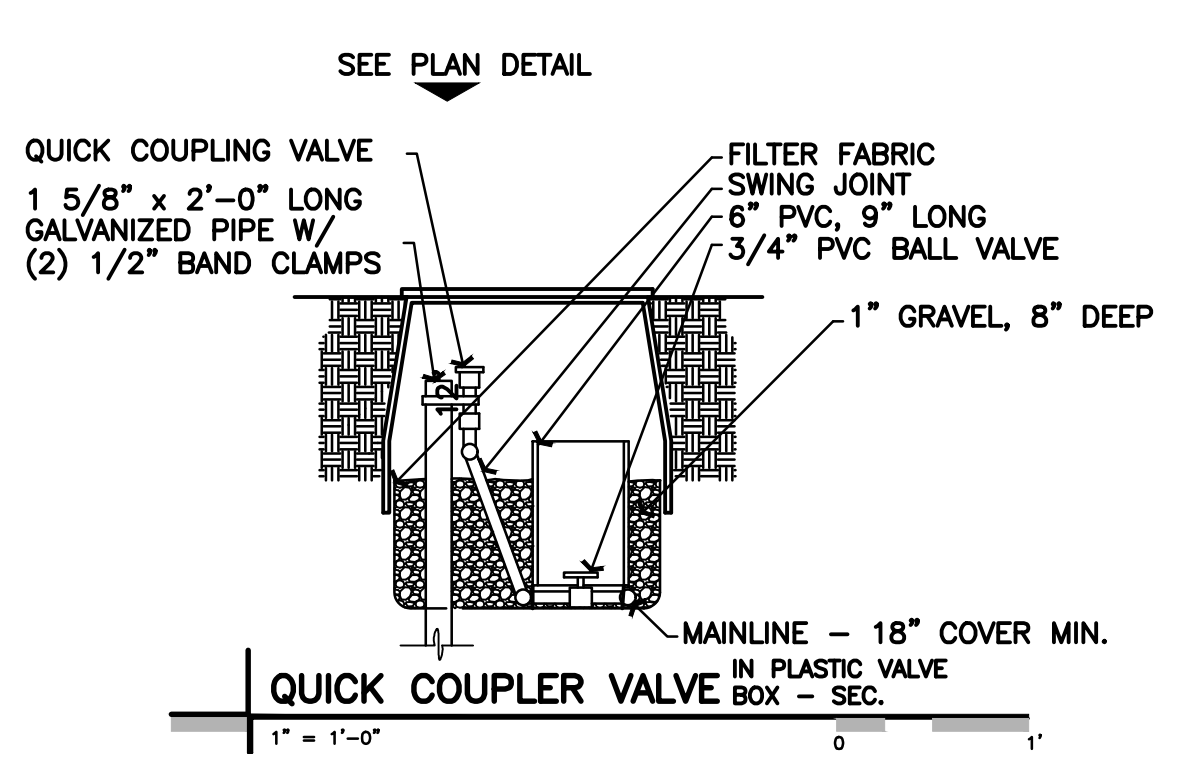
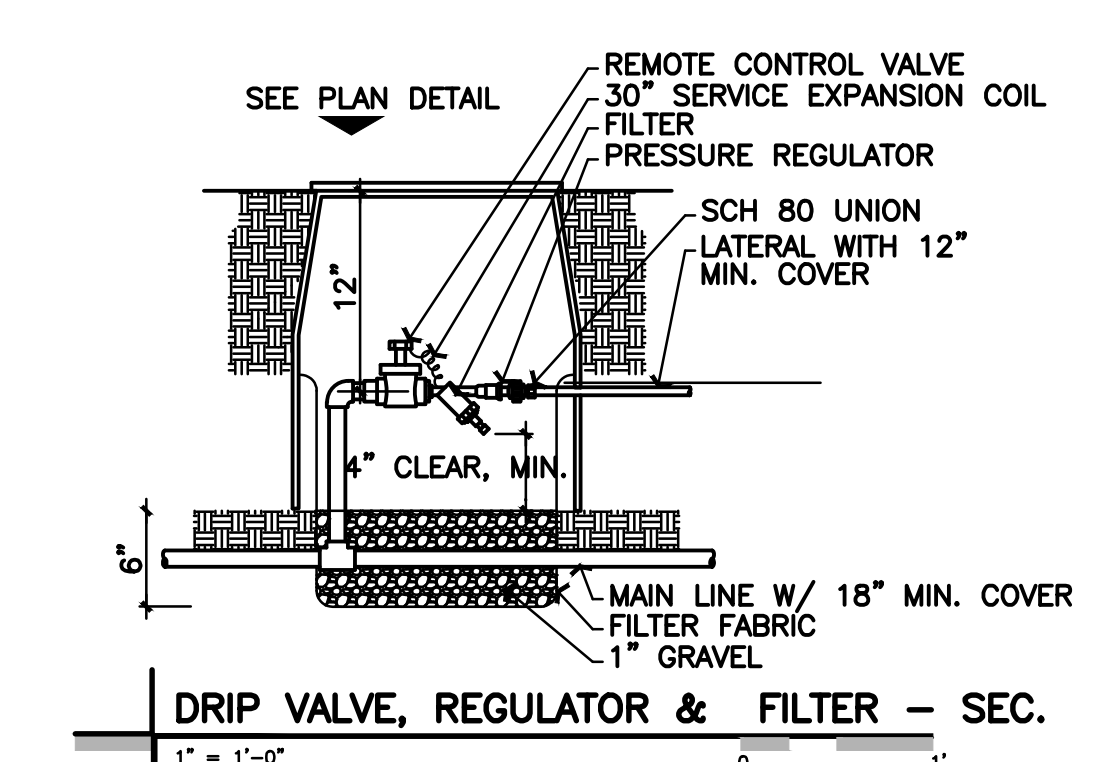
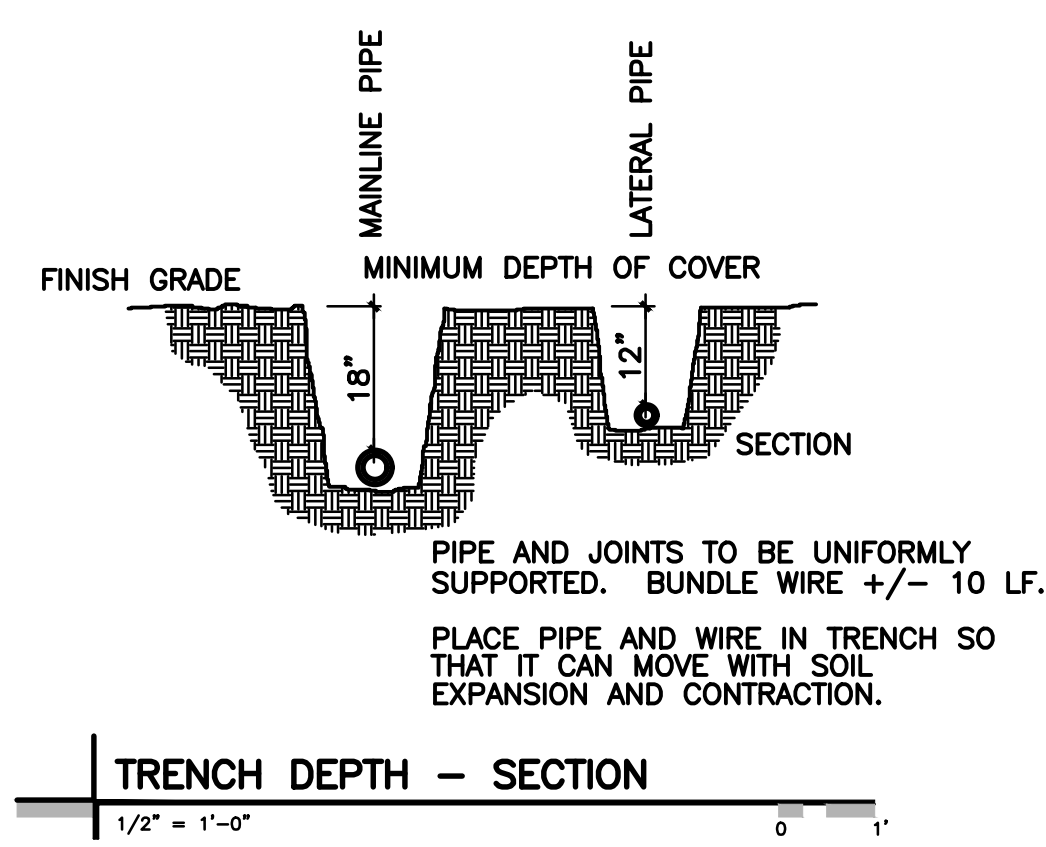


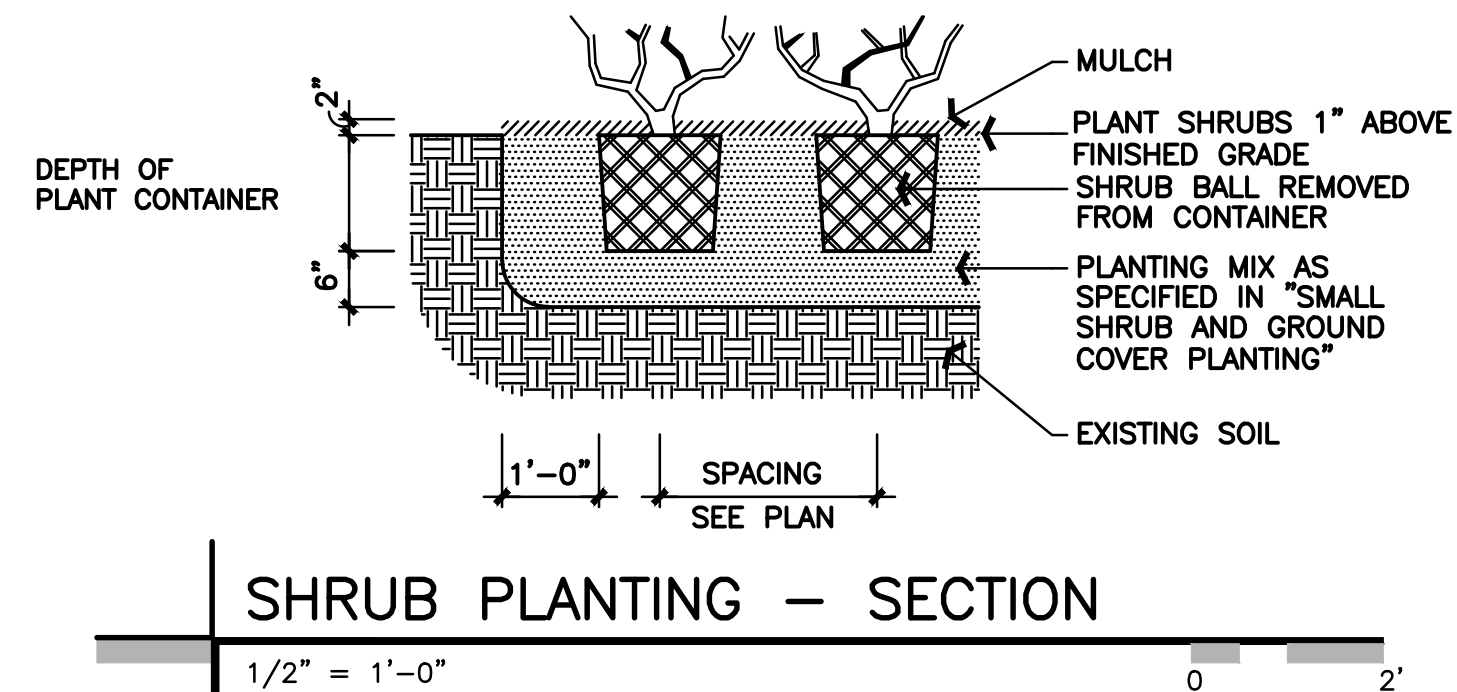
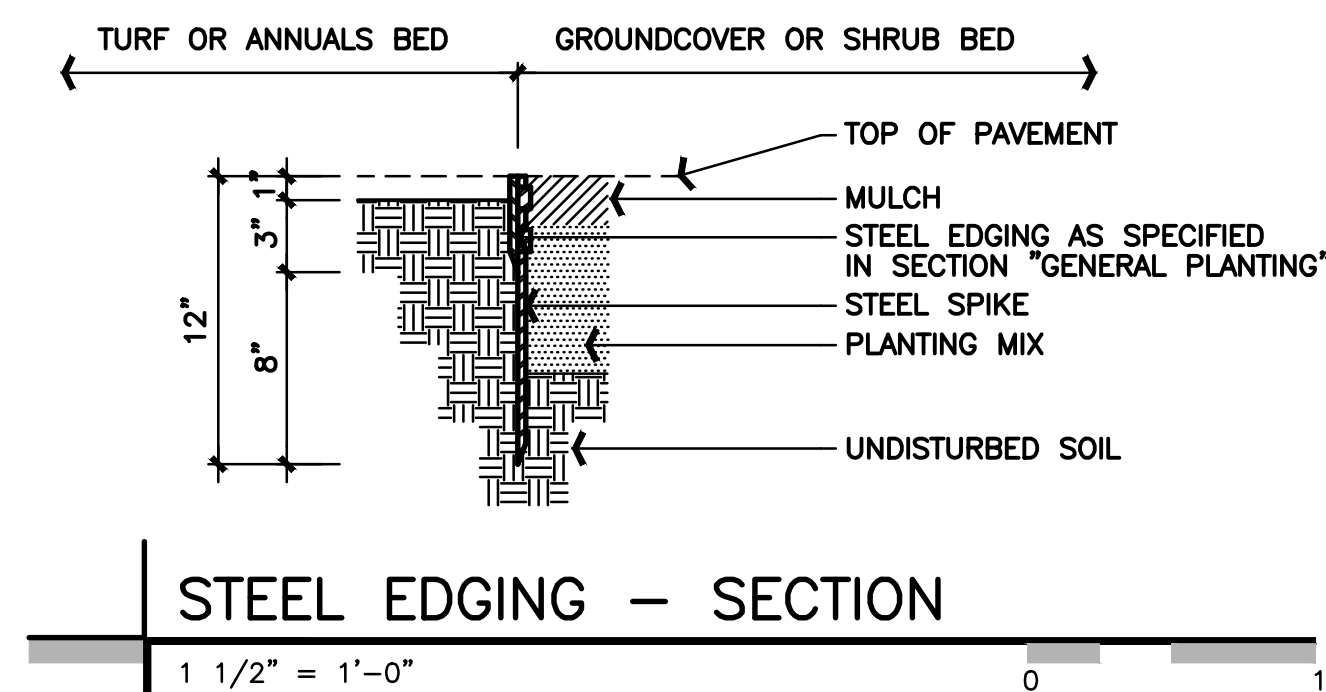
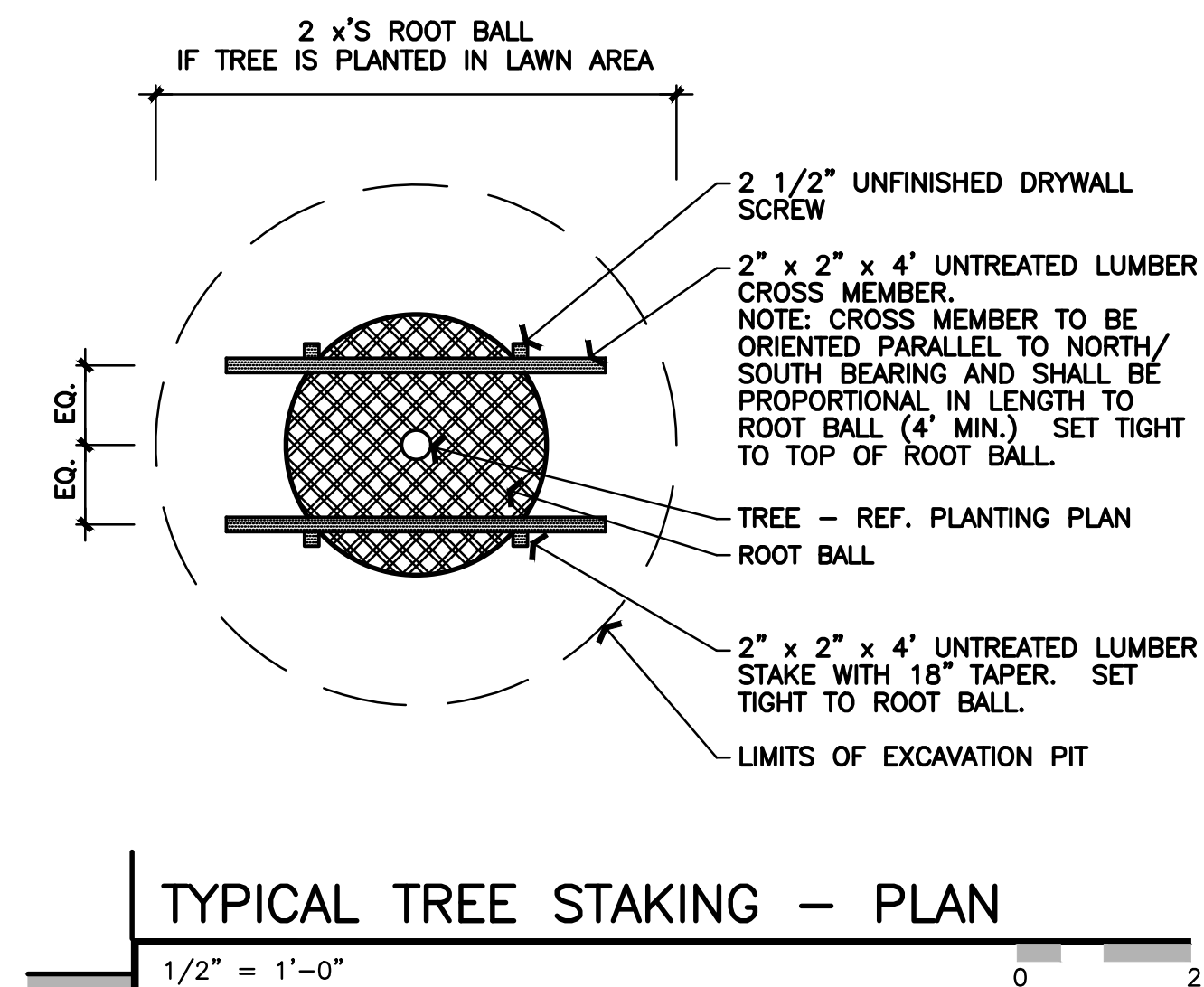
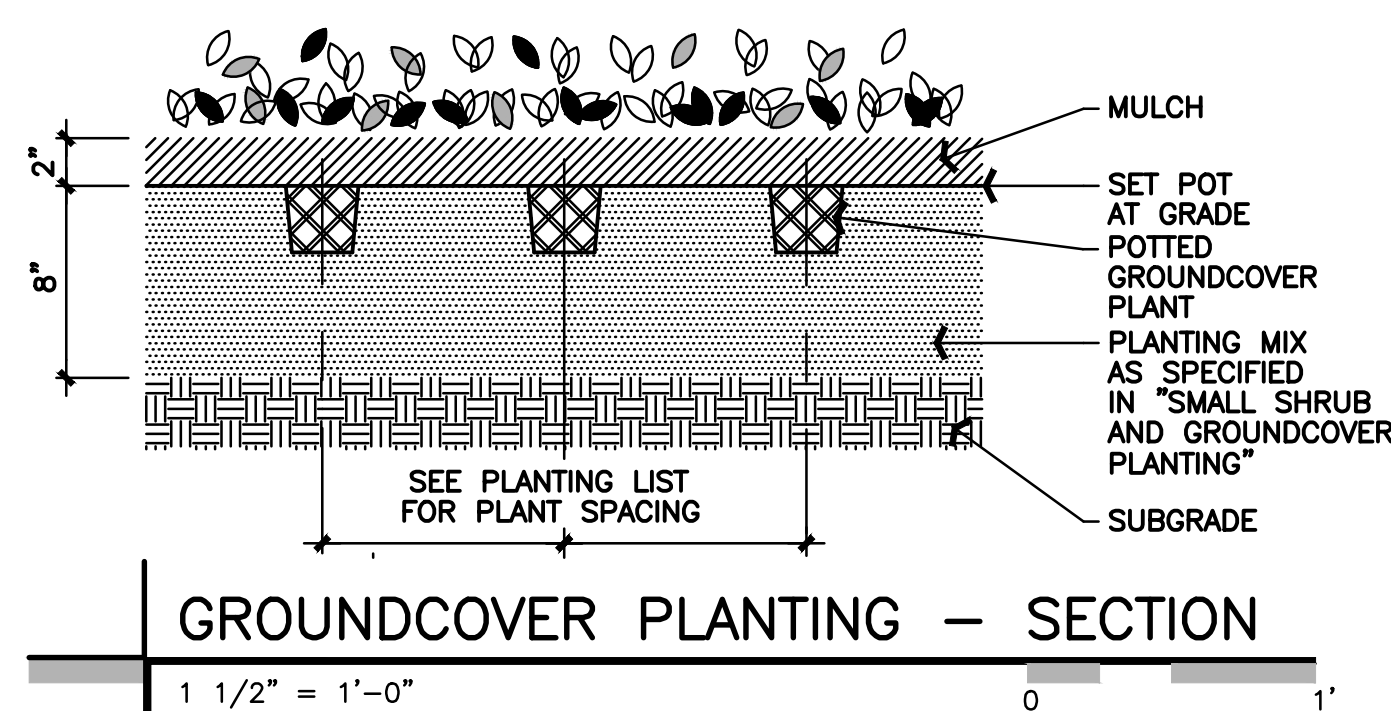
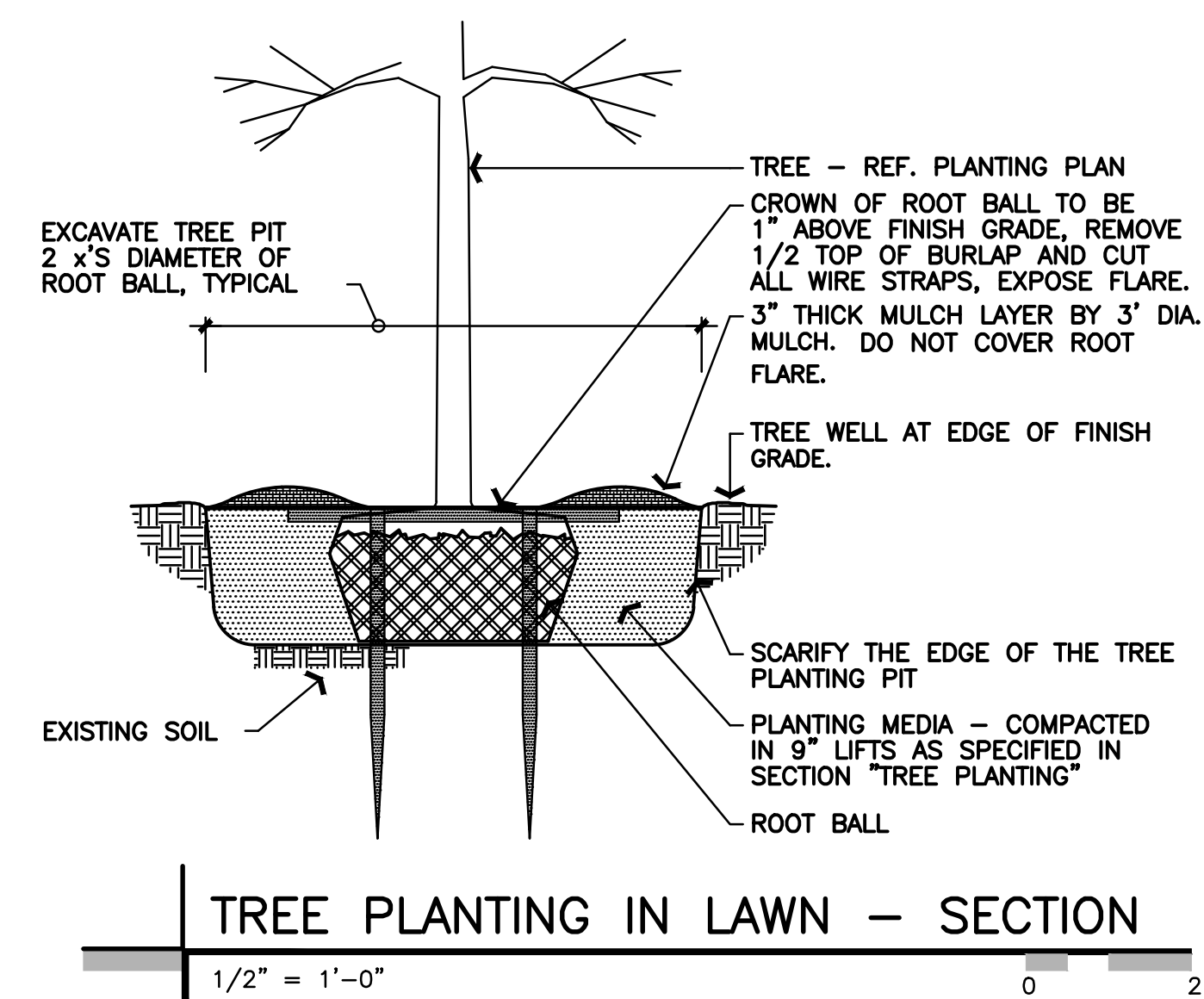
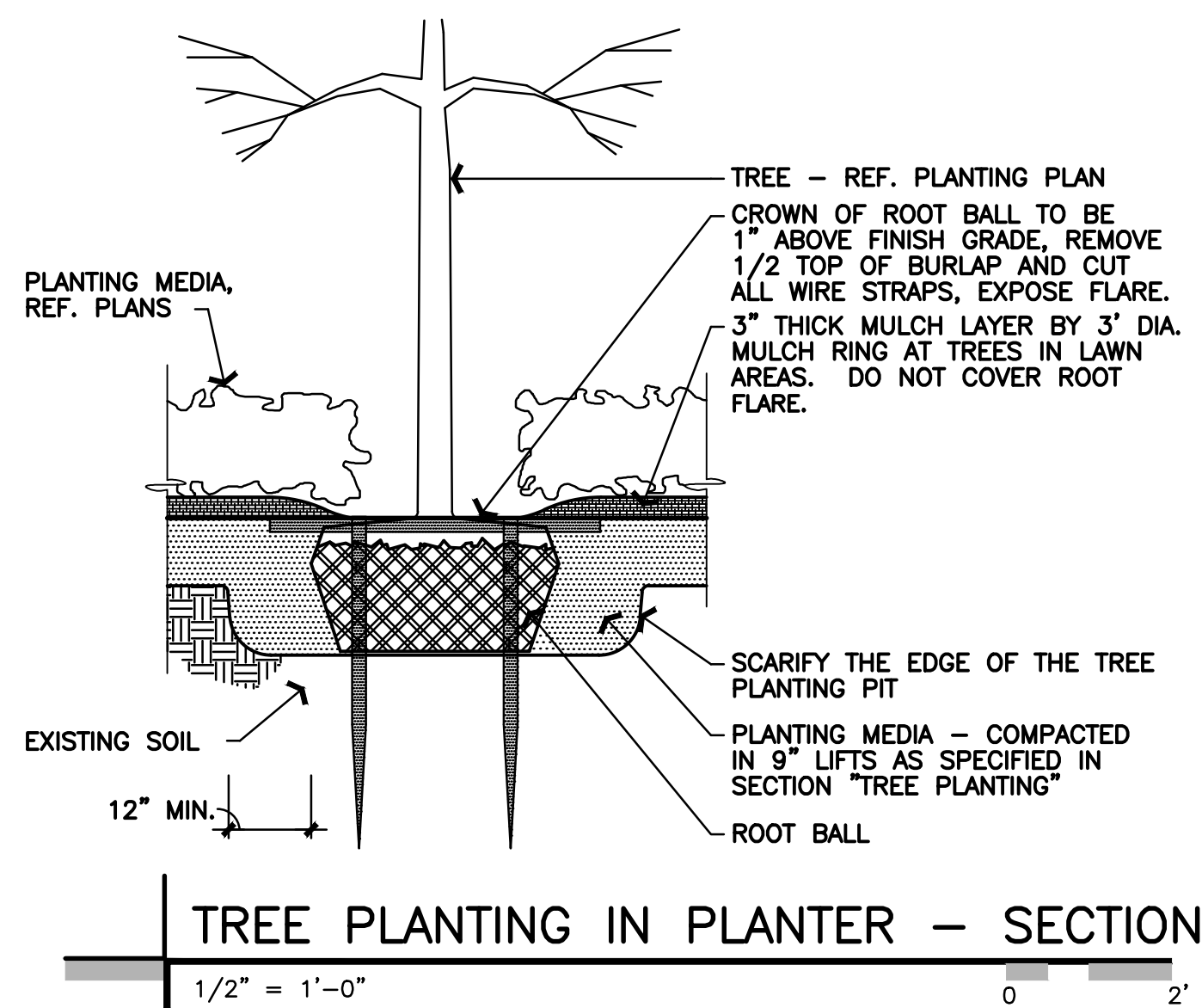
T40
OPEN KITCHEN
MODERN EXPLORER

IRRIGATION PLAN

L-111

PLOT DATE: 12.19.17





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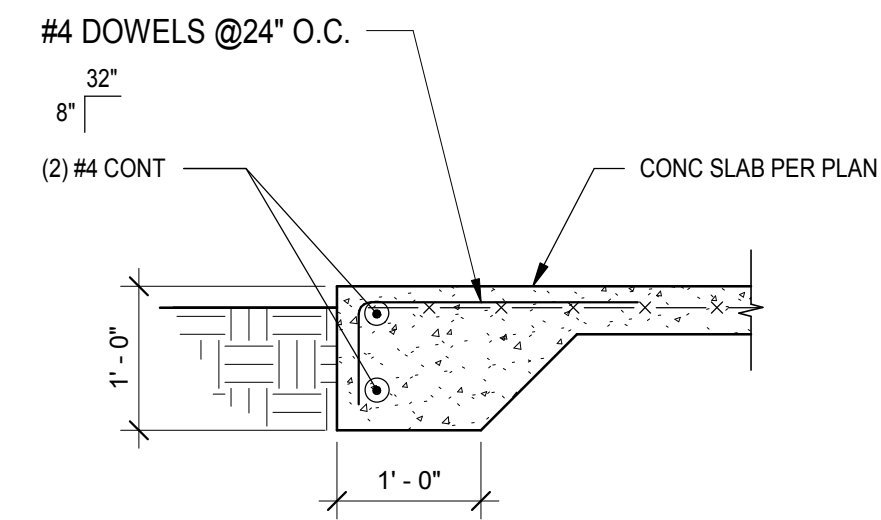
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| CONTRACT DATE: | 01.08.18 |
| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

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ROSEVILLE, MI

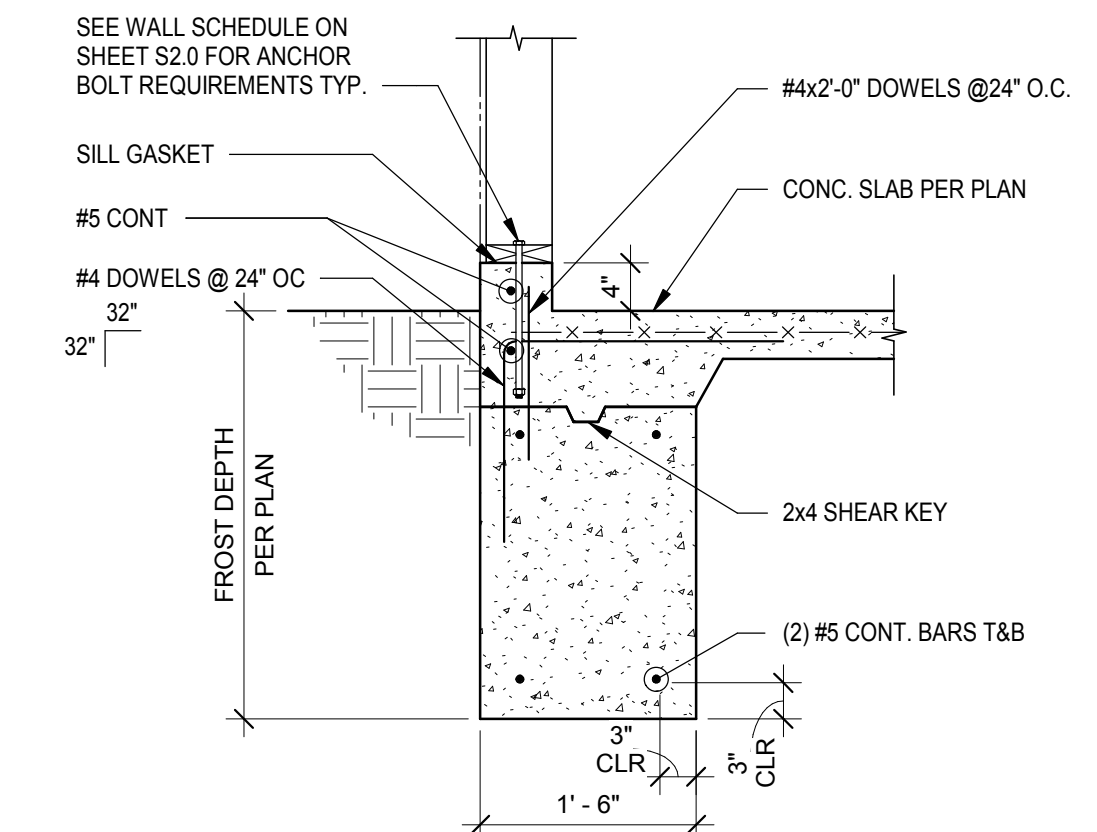


T40
OPEN KITCHEN
MODERN EXPLORER
**LANDSCAPING
DETAILS**

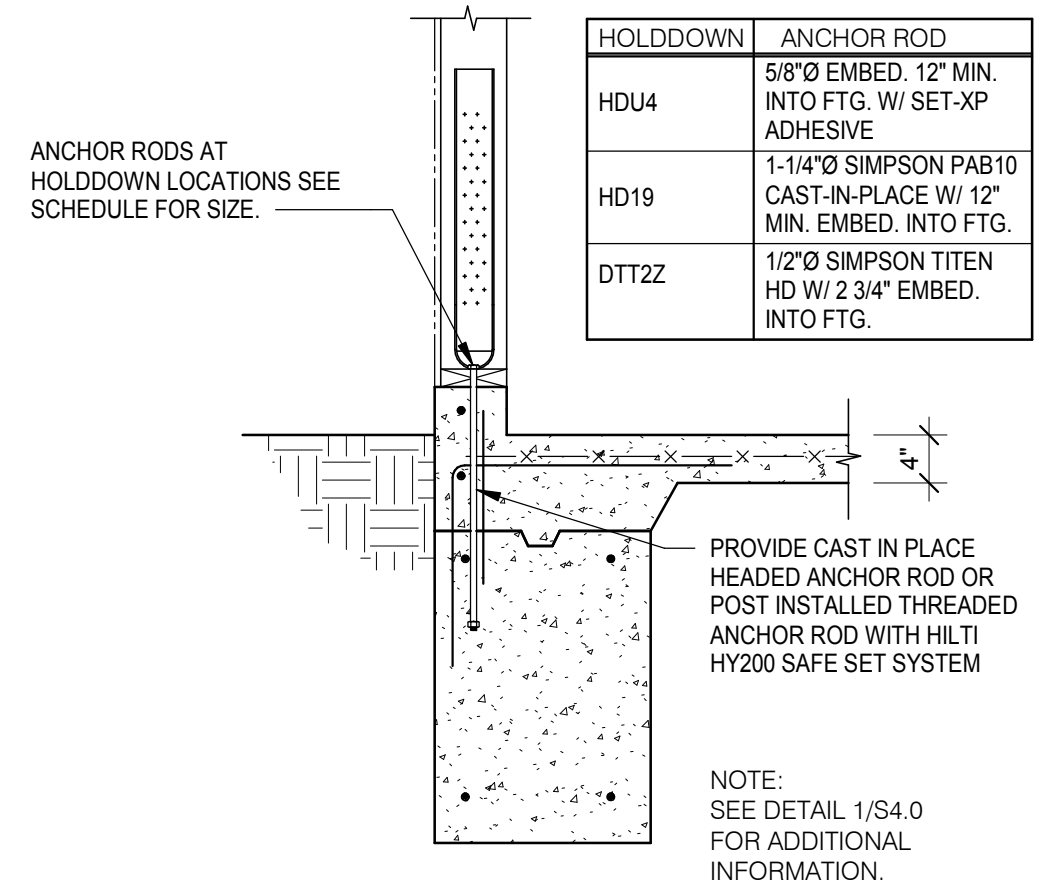
L-501



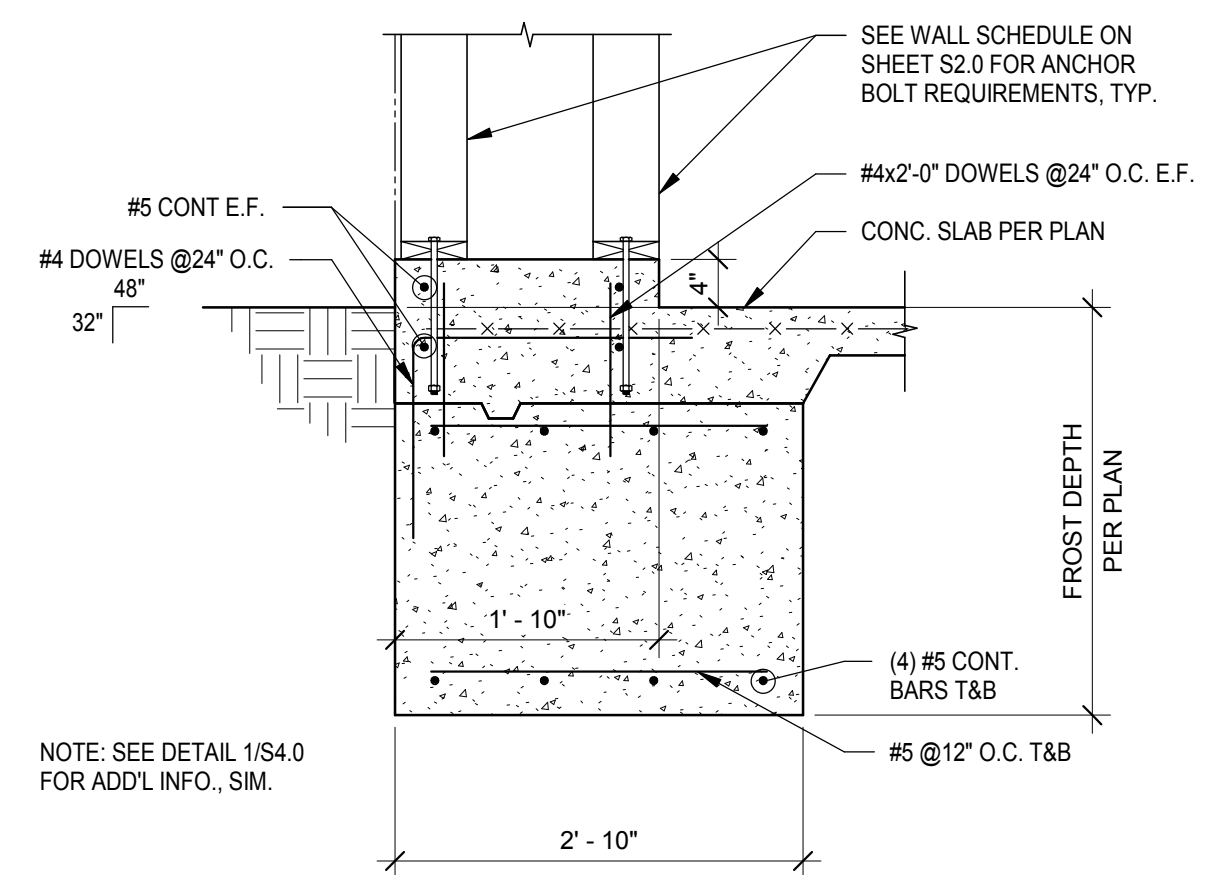
PATIO SLAB EDGE DETAIL 3/4" = 1'-0" **5**



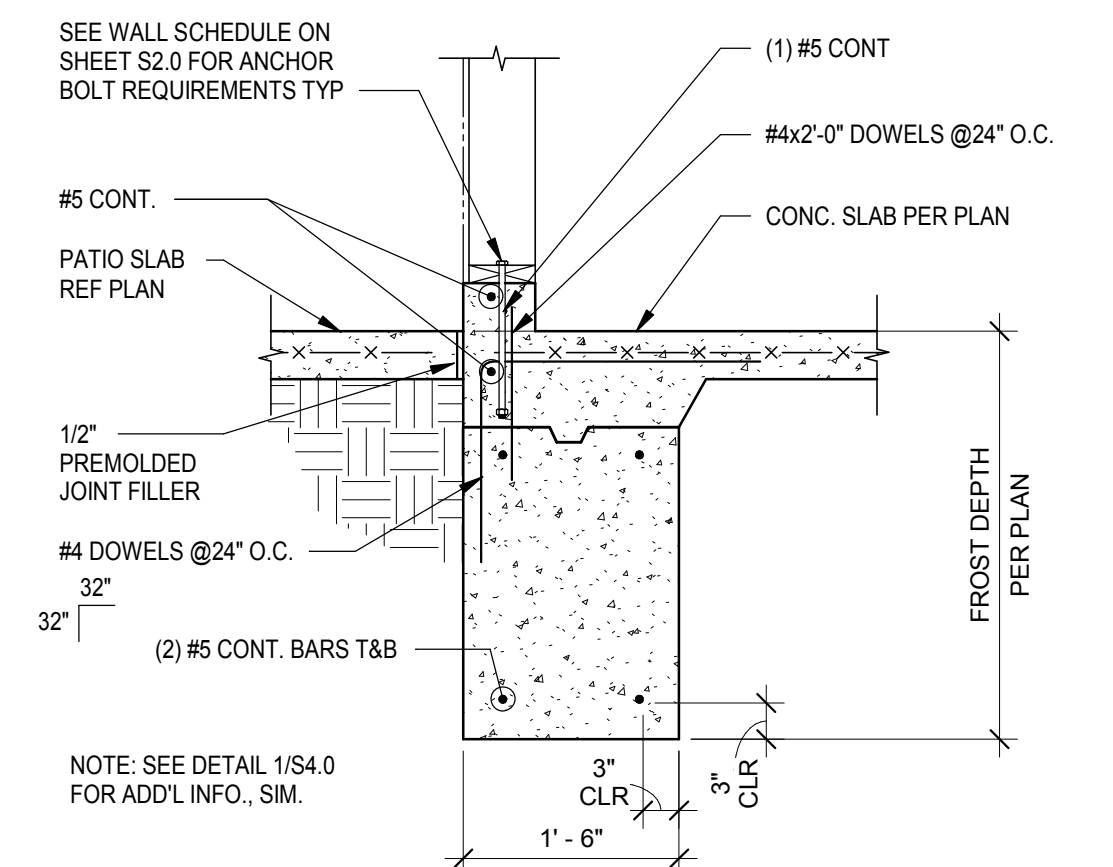
FOOTING AT SIDE AND REAR WALLS 3/4" = 1'-0" **1**



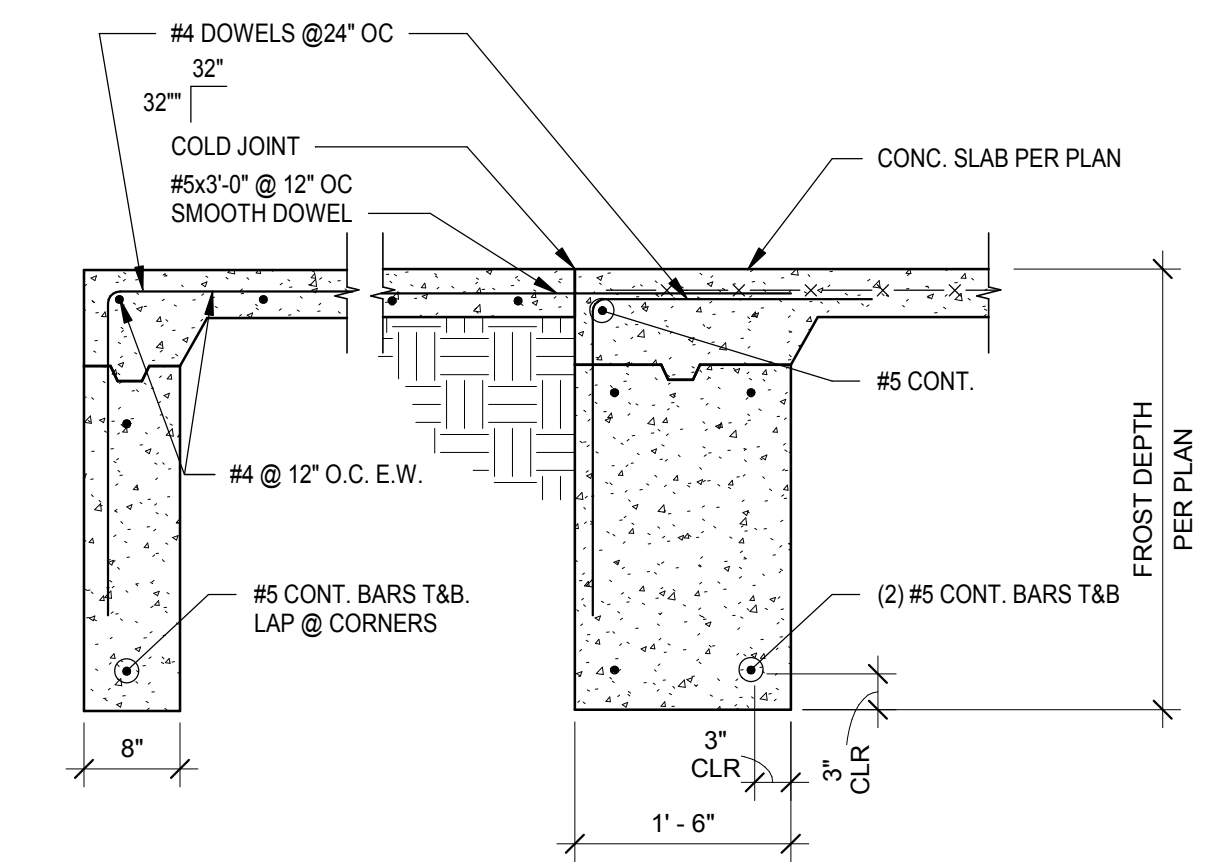
HOLDDOWN DETAIL 3/4" = 1'-0" **6**



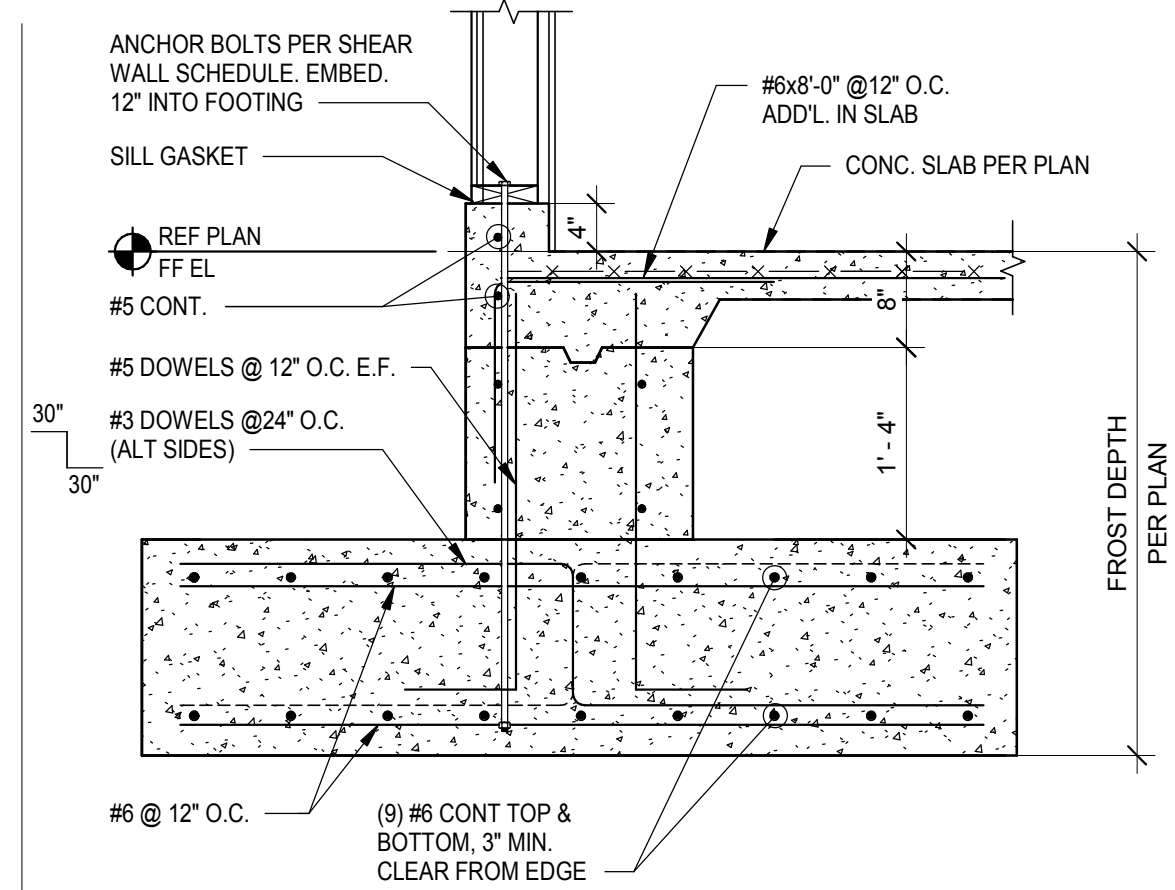
FOOTING AT ENTRY PILASTER 3/4" = 1'-0" **2**



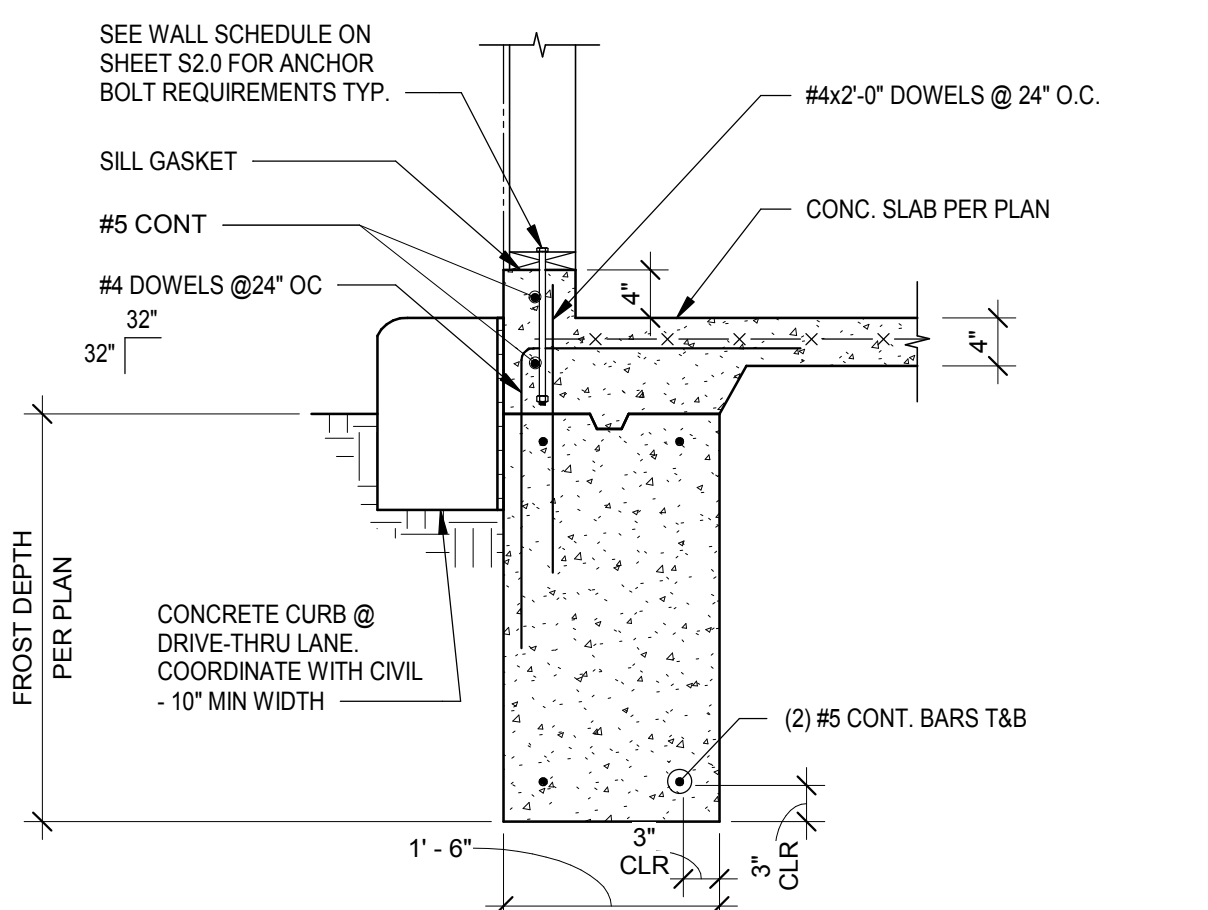
FOOTING AT FRONT WALL 3/4" = 1'-0" **7**



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



FOOTING AT INTERIOR SHEARWALL 3/4" = 1'-0" **8**



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

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CONTRACT DATE: 01.08.17
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

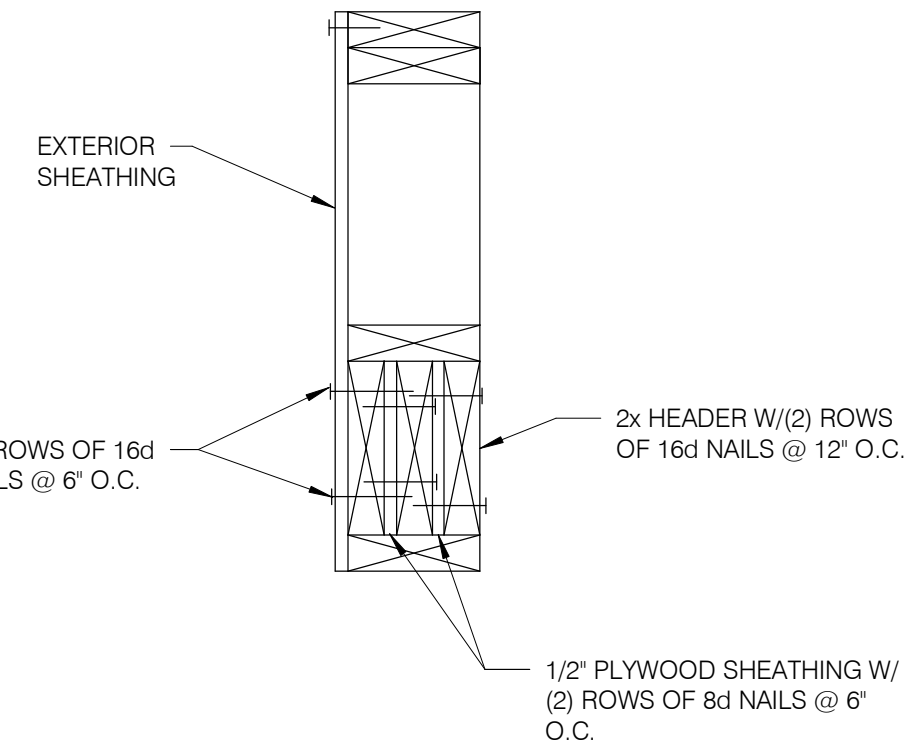
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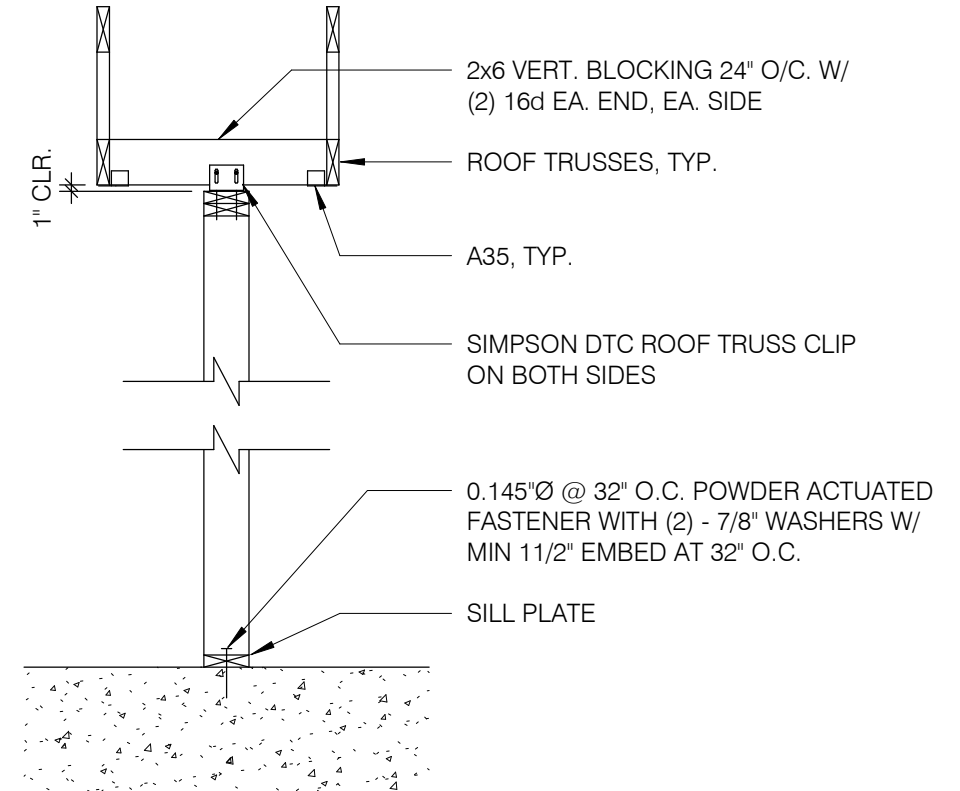
MODERN EXPLORER
**STRUCTURAL
DETAILS
FOUNDATION**

S4.0

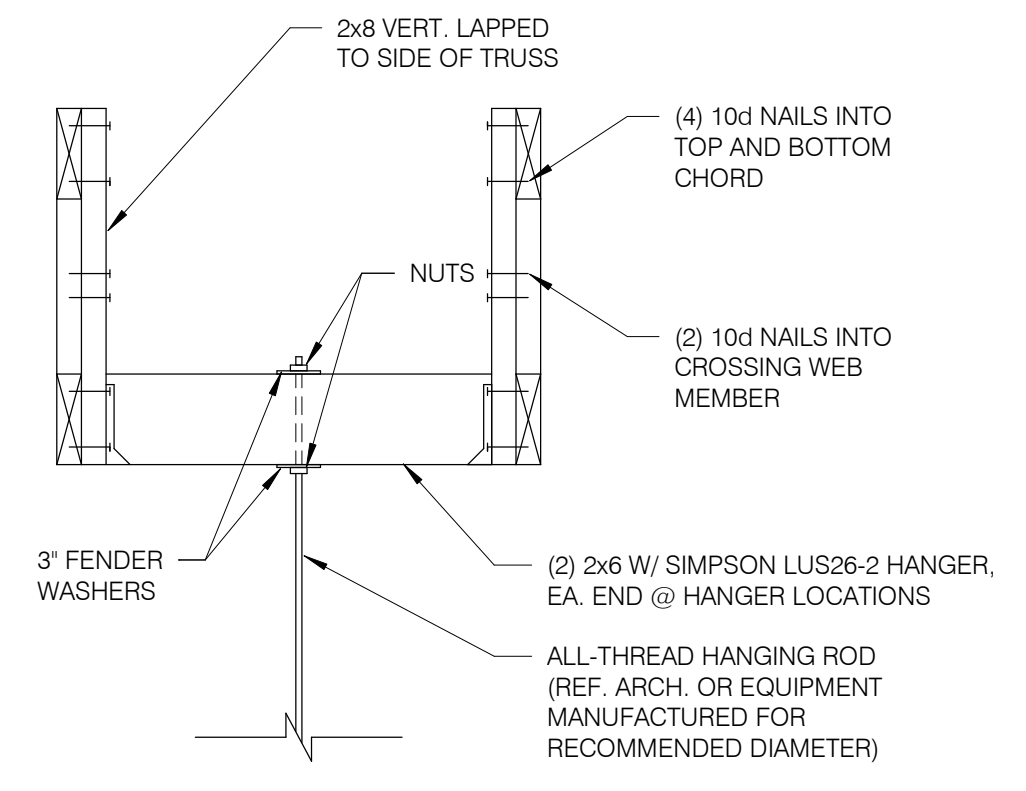
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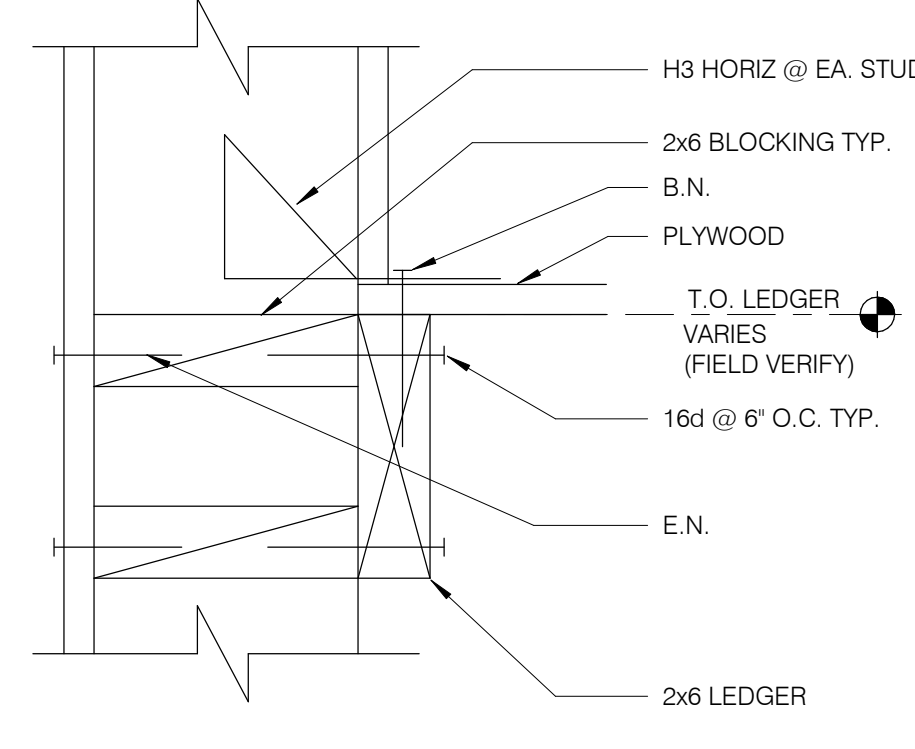
TYP. MULTIPLE HEADER 1-1/2" = 1'-0" **14**



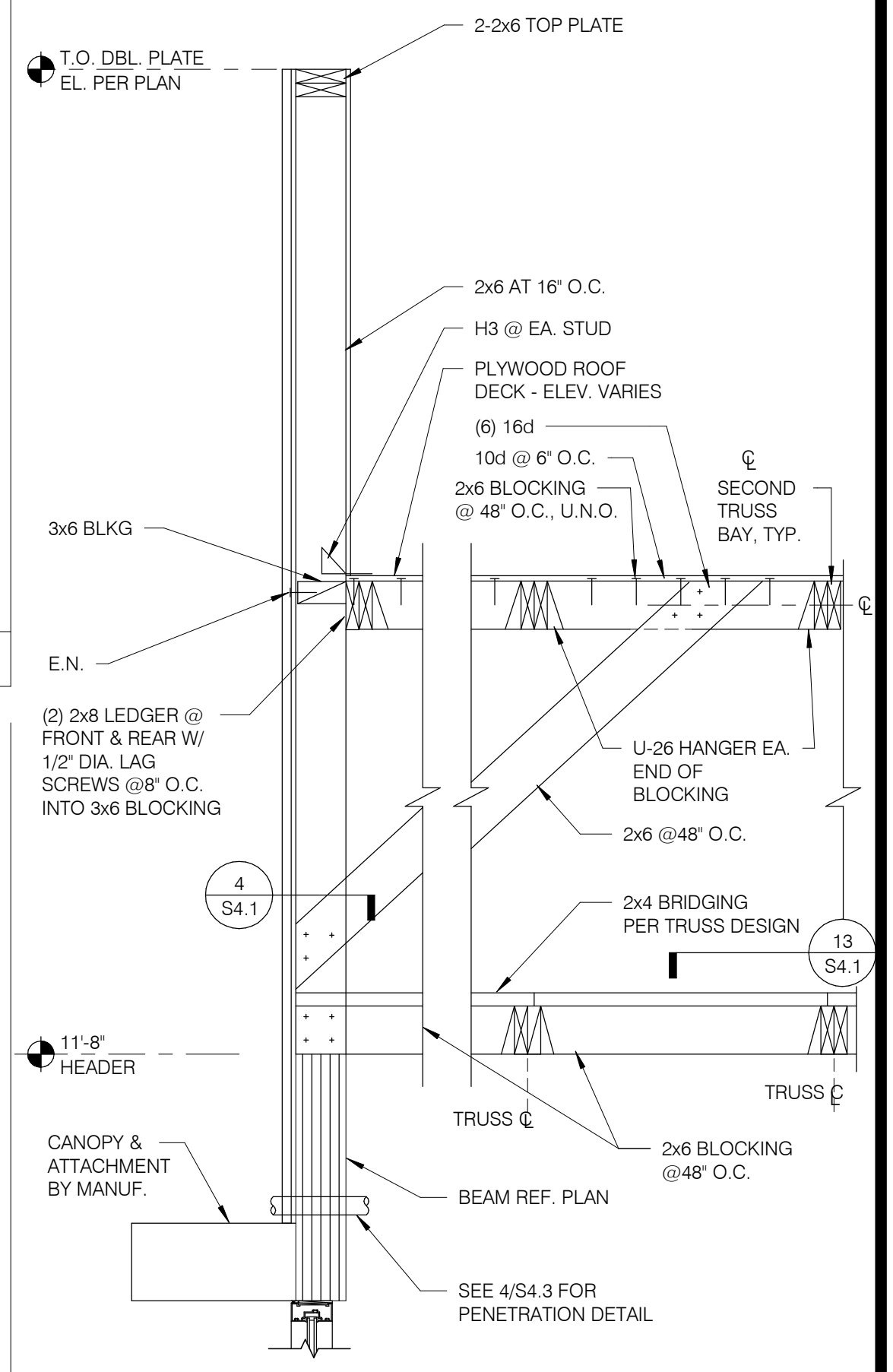
SUPPORT - PARALLEL TO TRUSS 1/2" = 1'-0" **10**



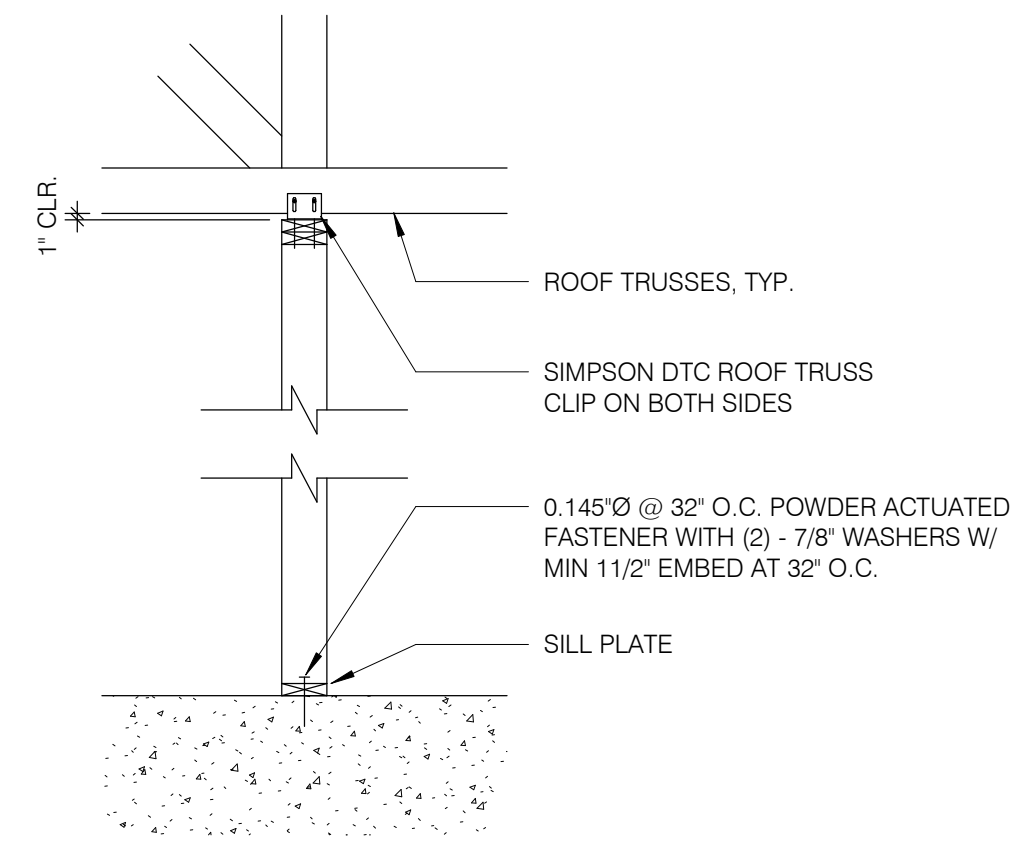
HANGING BULKHD. OR HOOD DETL. N.T.S. **6**



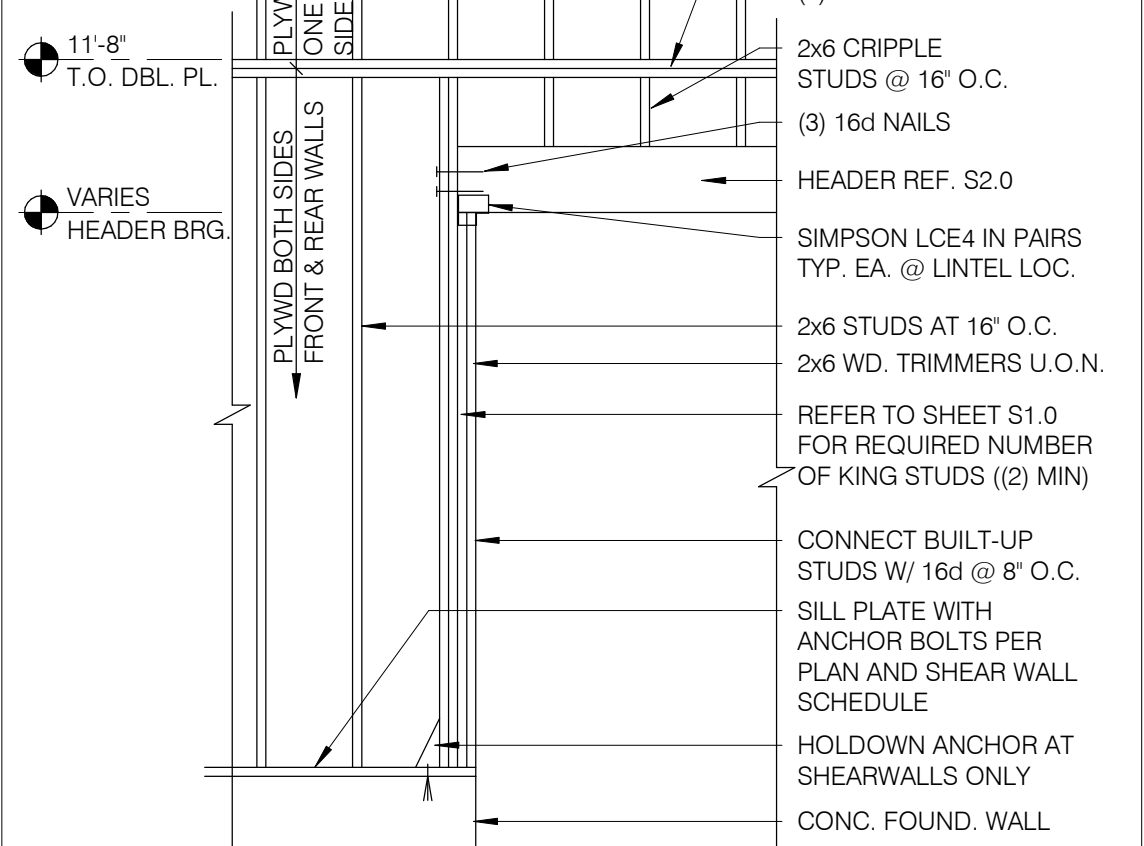
LEDGER DETAIL 3" = 1'-0" **3**



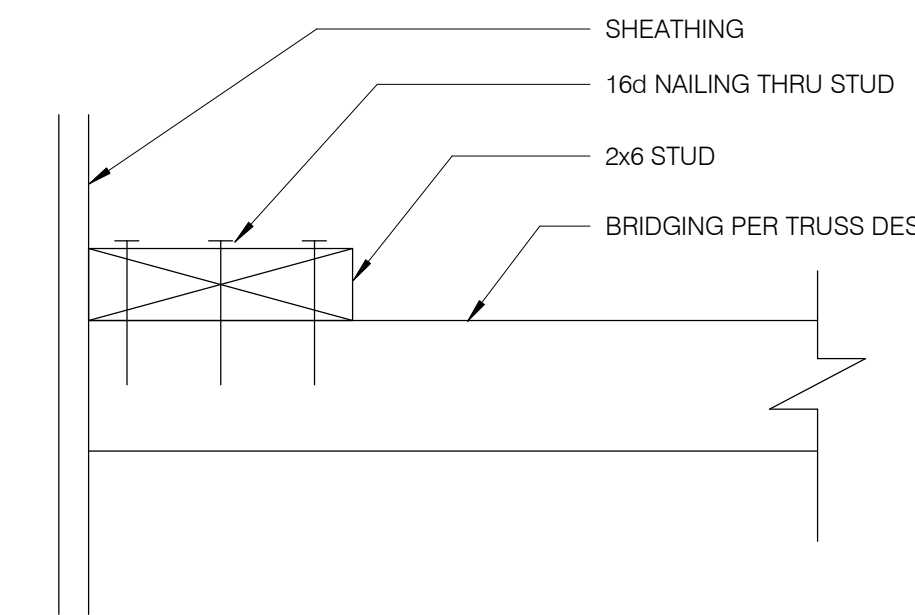
FRONT WALL N.T.S. **1**



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



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



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

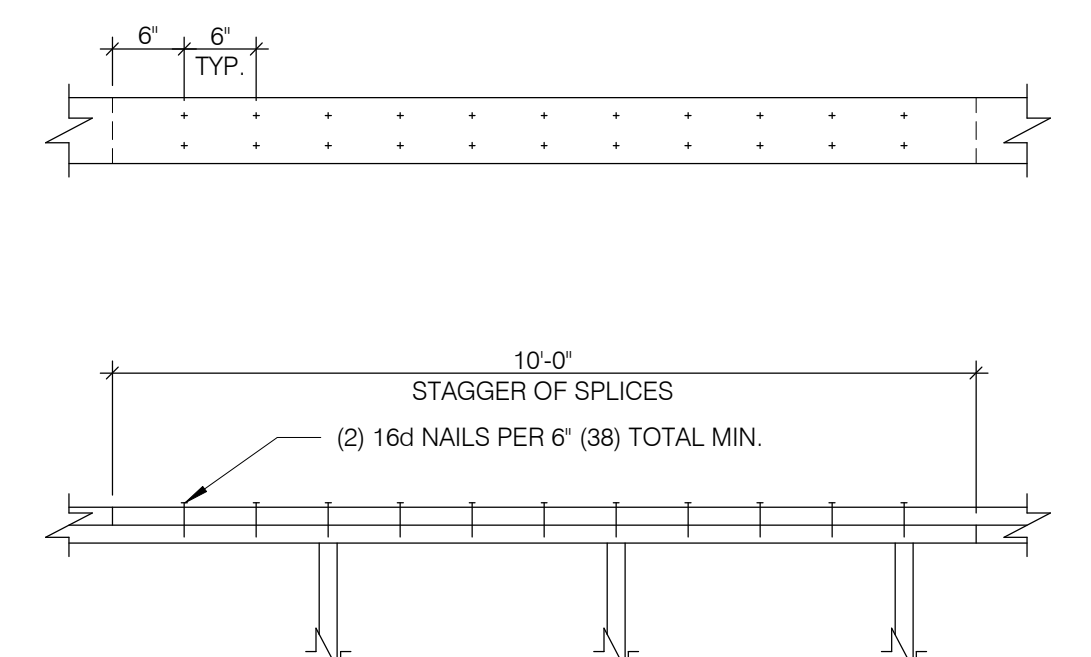
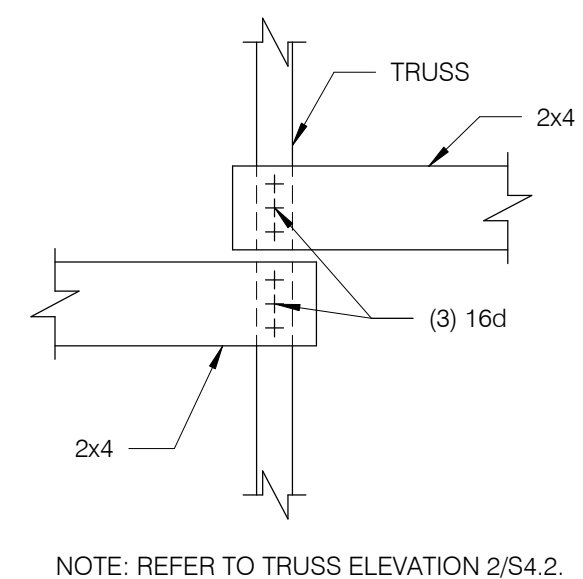
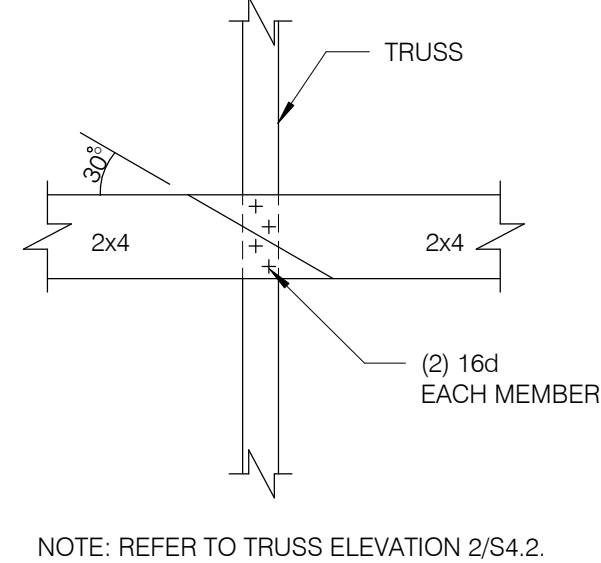


PLATE LAP DETAIL 1" = 1'-0" **12**

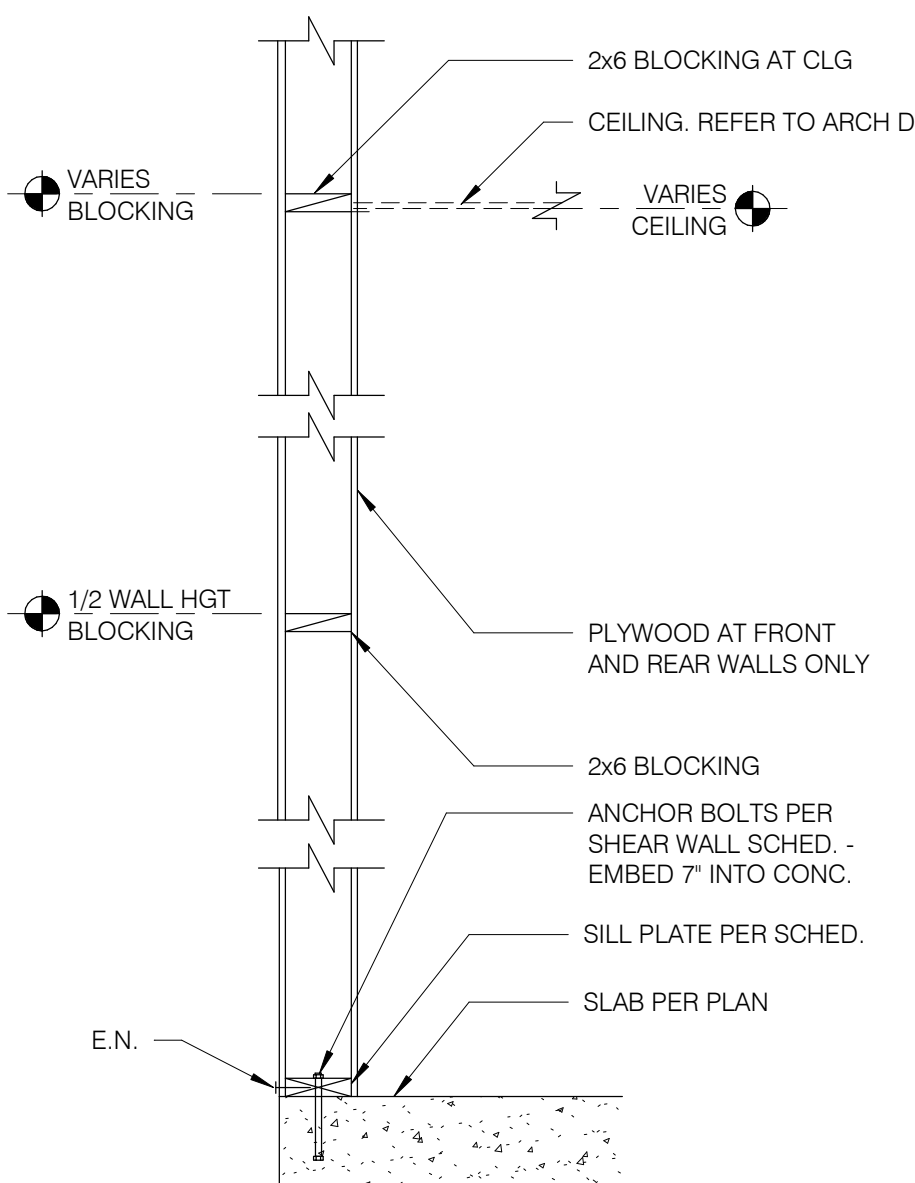
NOT USED 1/4" = 1'-0" **8**



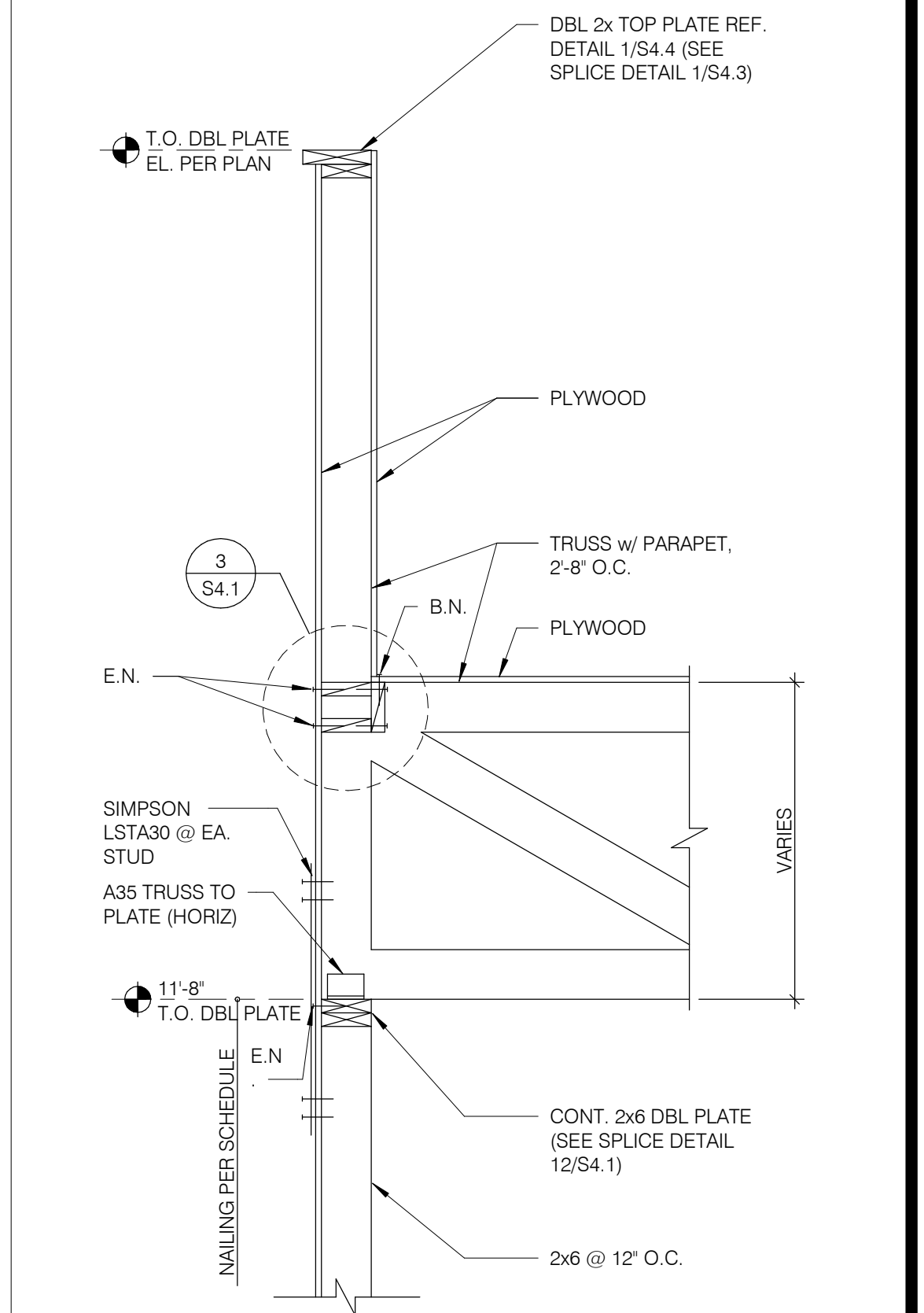
BRIDGING LAP DETAIL N.T.S. **13**



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



TYPICAL WALL BELOW TRUSS 3/4" = 1'-0" **5**



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

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| CONTRACT DATE: | 01.08.17 |
| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| BRAND DESIGNER: | TACO BELL |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

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MODERN EXPLORER
STRUCTURAL DETAILS FRAMING

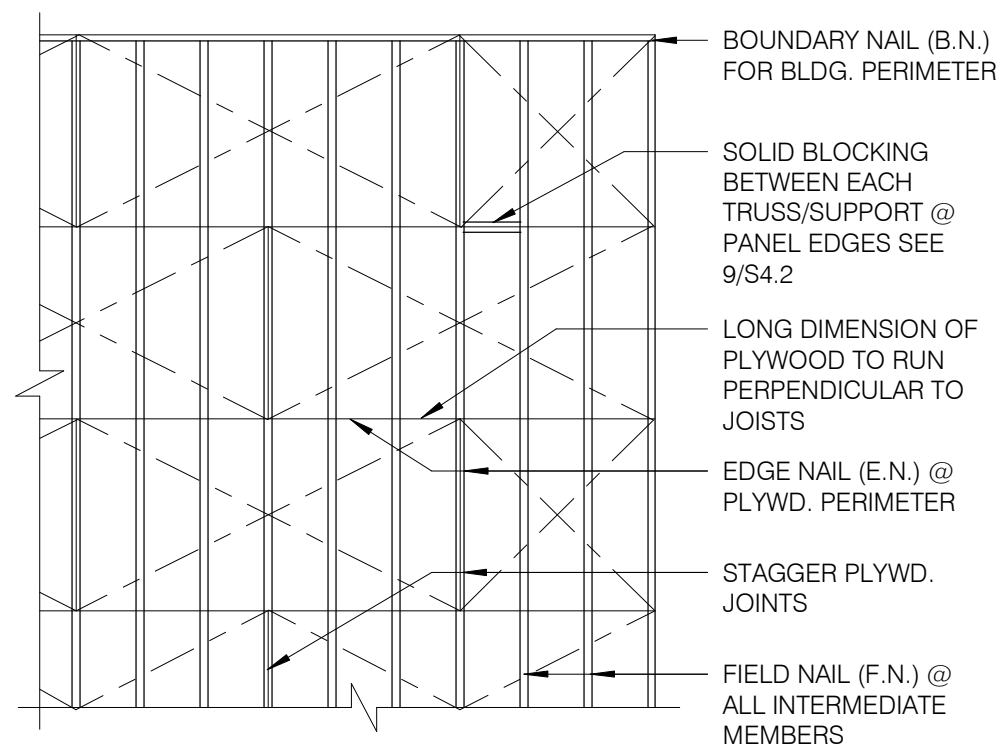
S4.1

PLOT DATE: 5/30/2018 3:35:00 PM

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:



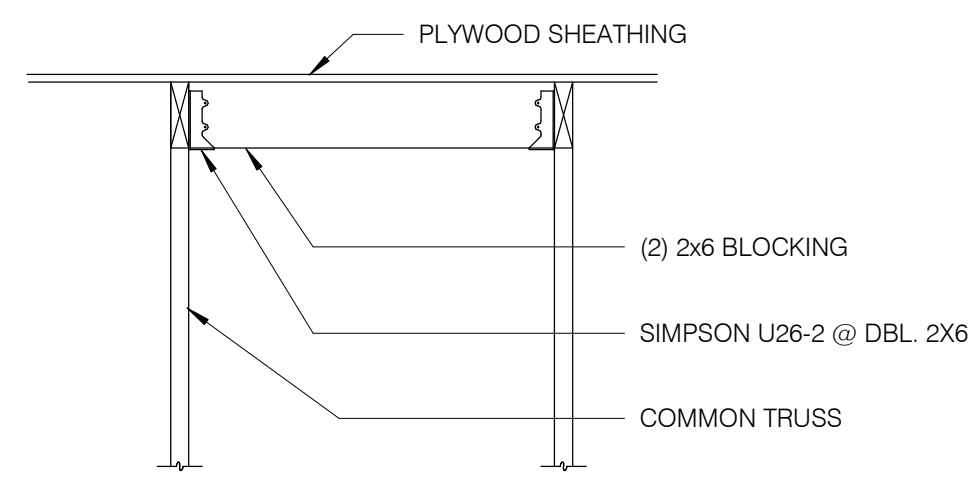
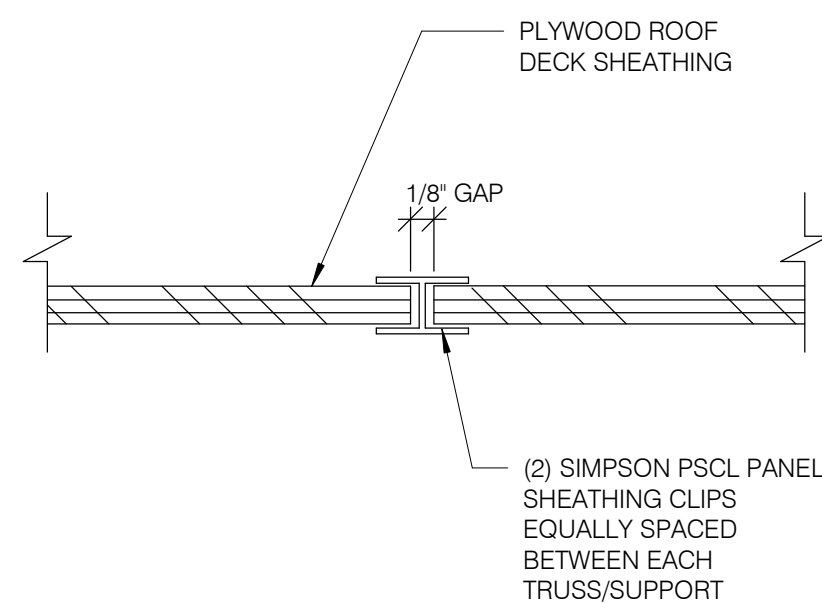
NOTES:
 1. MIN. PLYWD. SHT. SIZE SHALL BE 2'-0" X 4'-0".
 2. MIN. 3/8" NAILING EDGE DISTANCE.
 3. EDGE NAIL (E.N.) O/ BEAMS AND AROUND ALL OPENINGS.

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

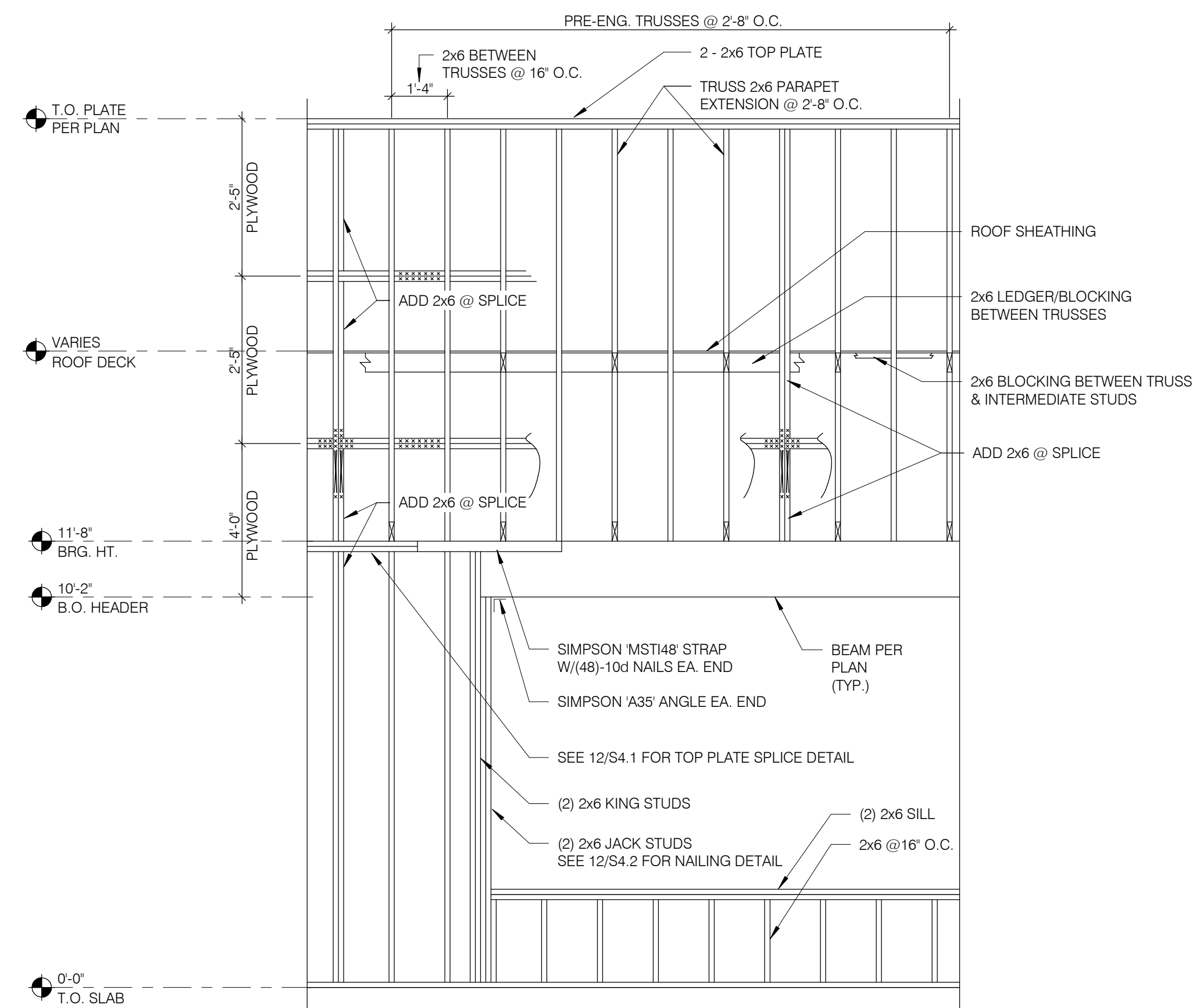
| EQUIPMENT | | DESIGN WEIGHT |
|---------------------|---|---------------|
| HVAC UNIT - RTU-1 | * | 1000 lbs. |
| HVAC UNIT - RTU-2 | * | 1500 lbs. |
| EXHAUST FAN - EF-1 | * | 200 lbs. |
| EXHAUST FAN - EF-2 | * | 70 lbs. |
| HOOD #1 - TACO BELL | | 400 lbs. |
| ICE CONDENSERS | | 200 lbs. |
| FREEZER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

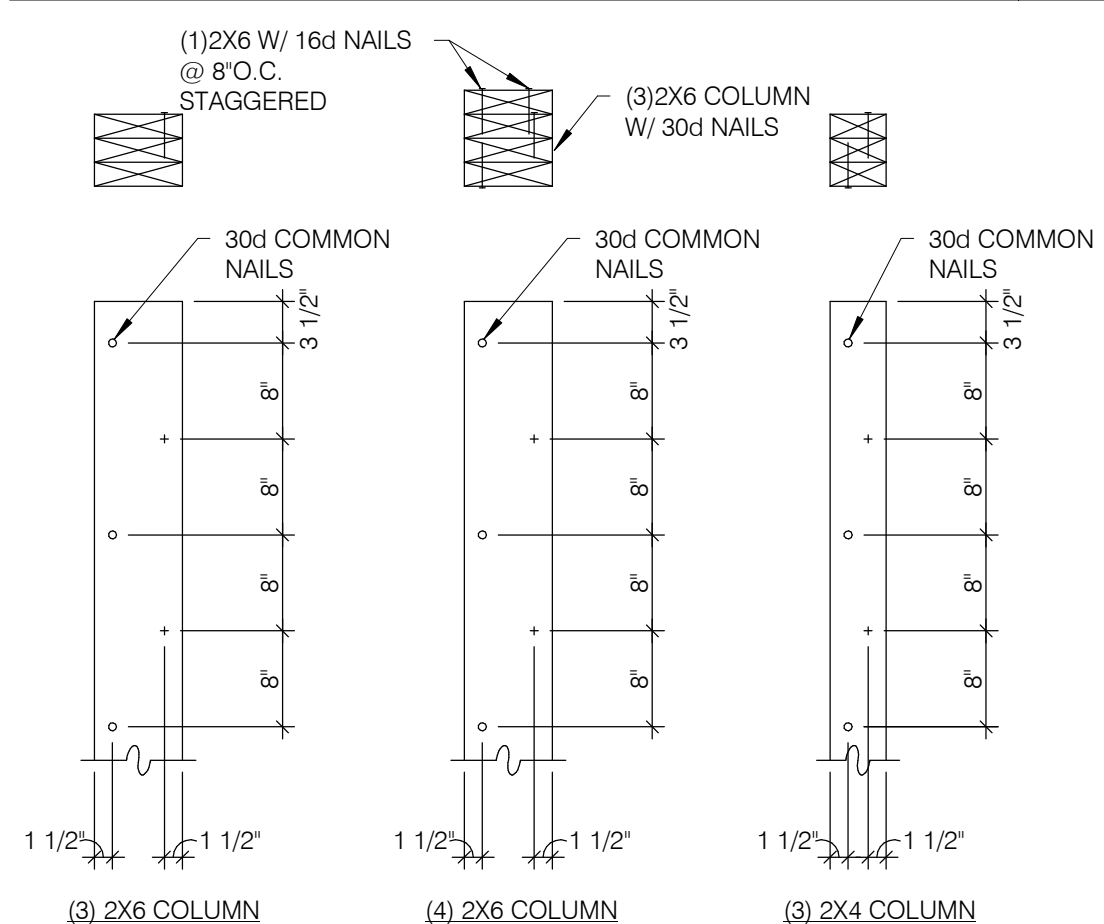
ROOF TOP EQUIPMENT WEIGHTS N.T.S. **5**



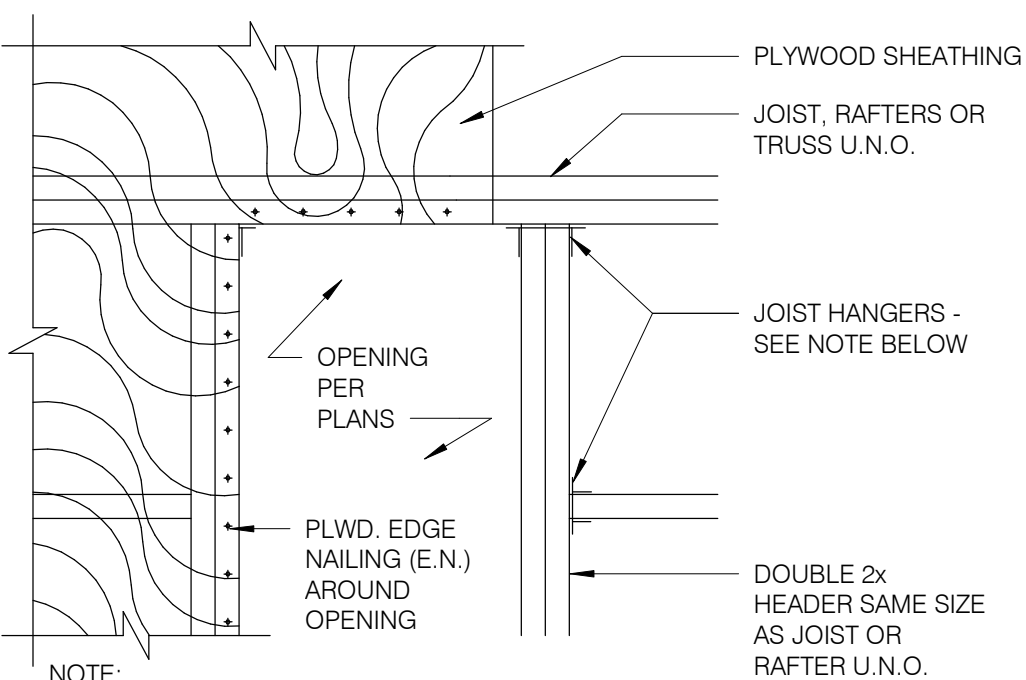
ROOF OPENING DETAIL N.T.S. **6**



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



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



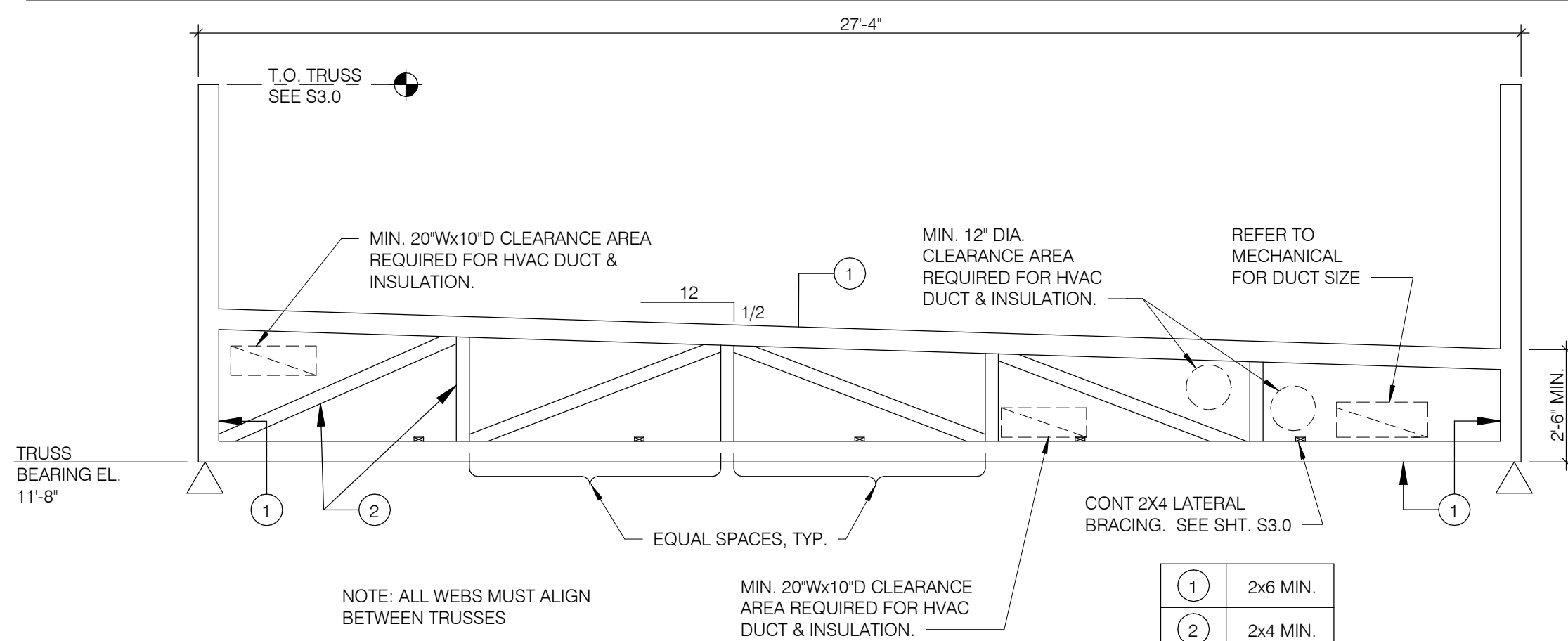
NOTE:
 HANGERS SHALL BE 'SIMPSON' STANDARD 'U' @ ROOF. DBL. JOIST OR RAFTERS SHALL BE JOINED TOGETHER AS FOLLOWS:
 1. 10' OR LESS NOM. DEPTH - 16d @ 12" O.C. STAGGERED
 2. MORE THAN 10' - (2) 16d @ 12" O.C.

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

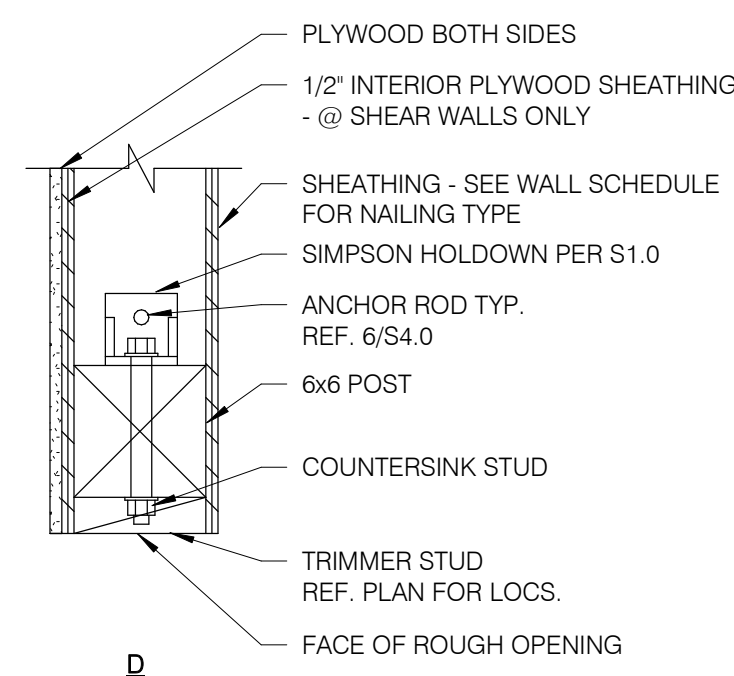
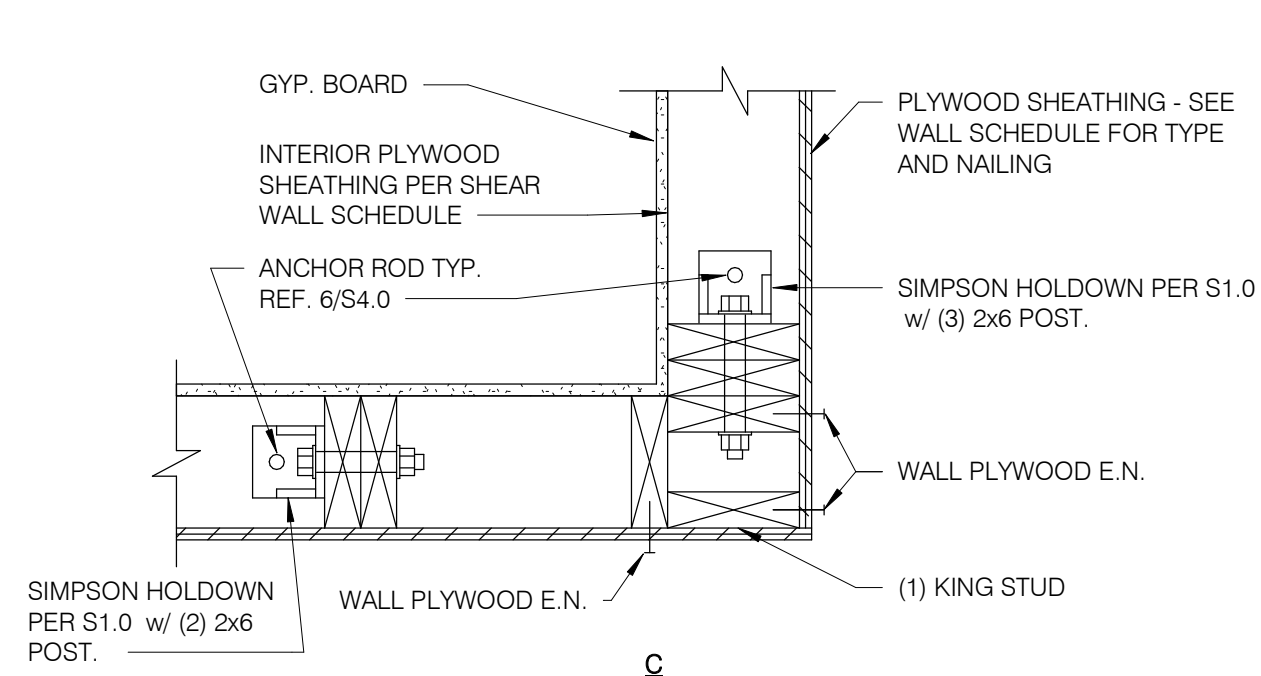
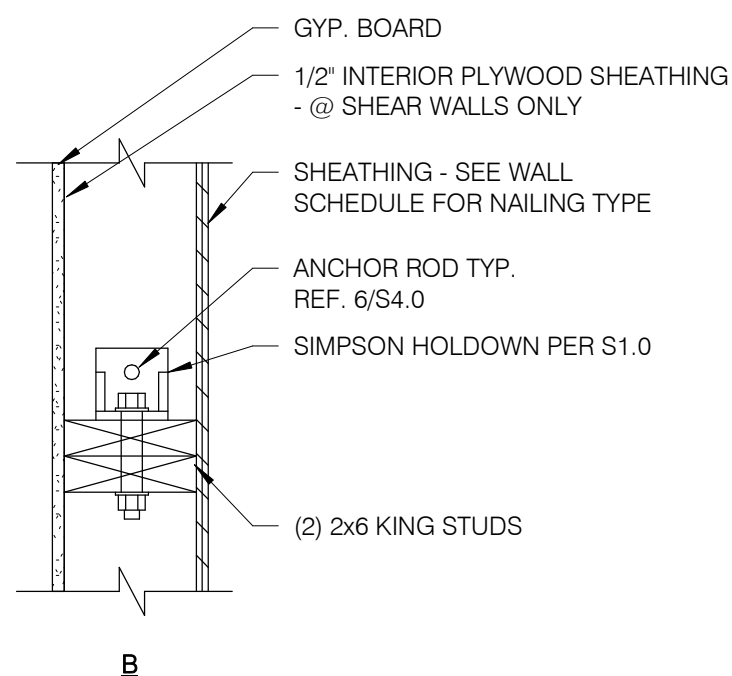
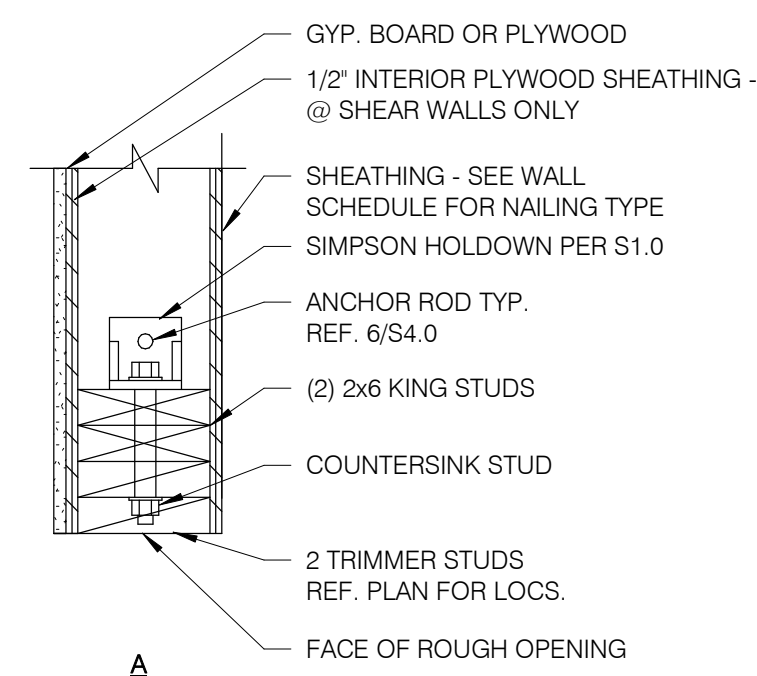
| TRUSS TYPES | SINGLE TRUSS DESIGNATION | DOUBLE TRUSS DESIGNATION | BEARING POINT | COMMENTS |
|-------------|--------------------------|--------------------------|---------------|-------------|
| T1 - T24 | X | XX | △ | SEE NOTE 1. |

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.

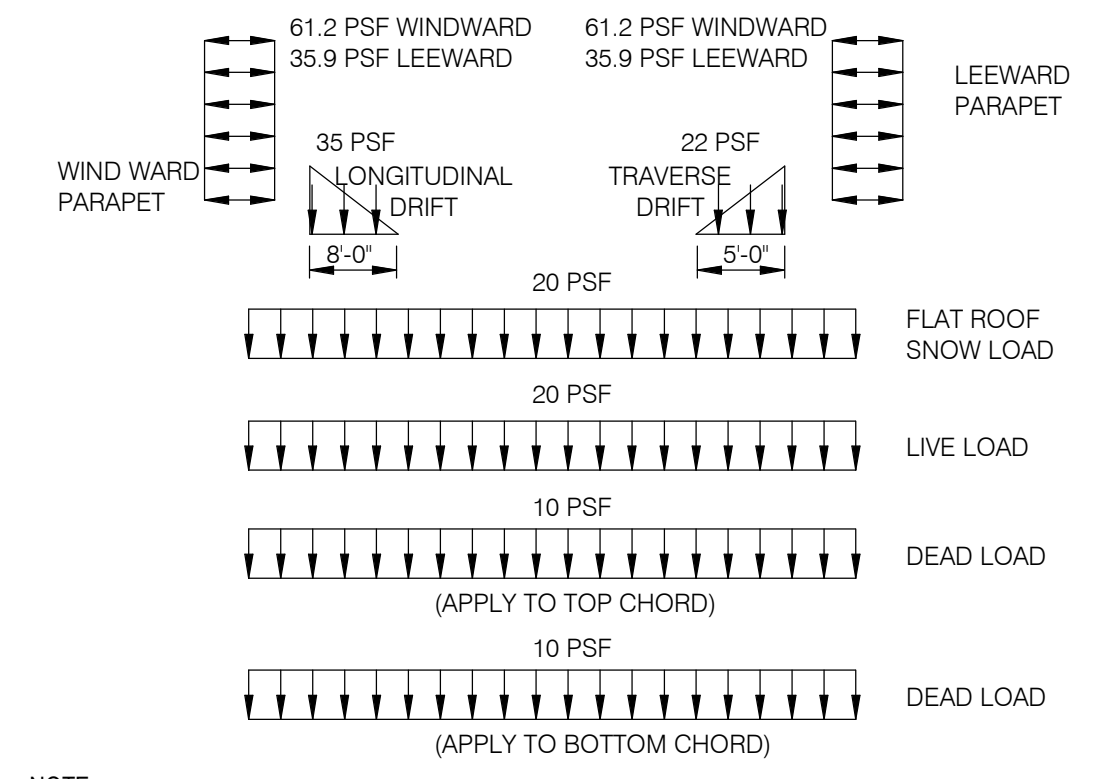
TRUSS SCHEDULE N.T.S. **7**



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



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**

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CONTRACT DATE: 01.08.17
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312262/442877
 STORE NUMBER: 2016088.09

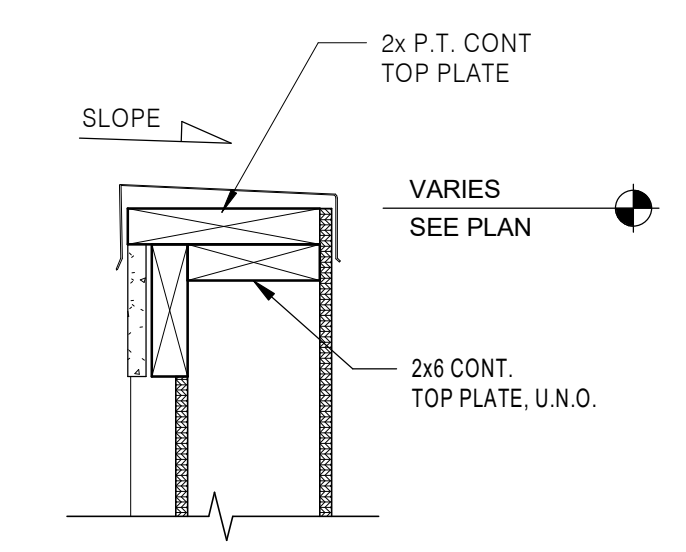
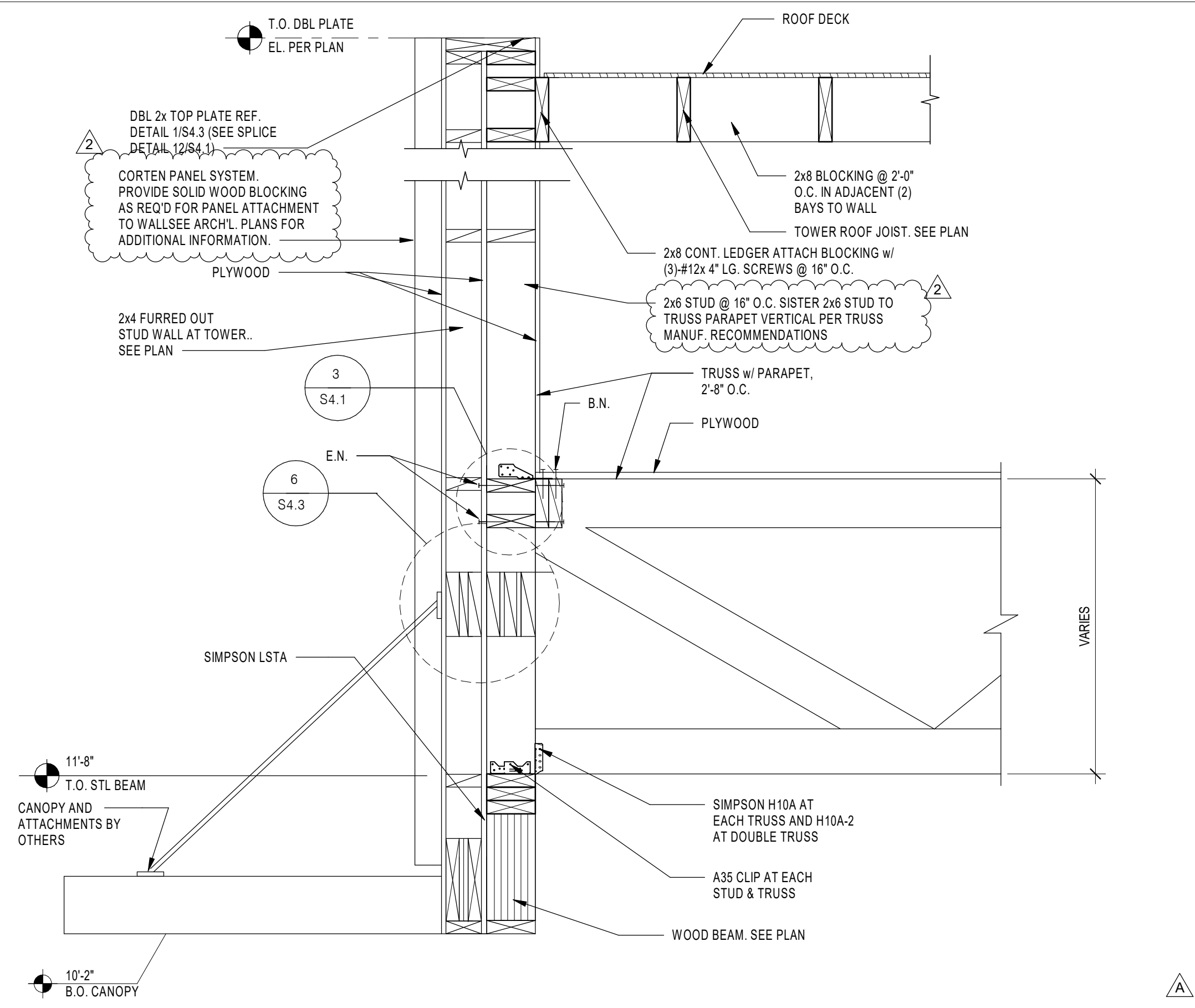
TACO BELL
 20779 E. 13 MILE RD.
 ROSELVILLE, MI 48066



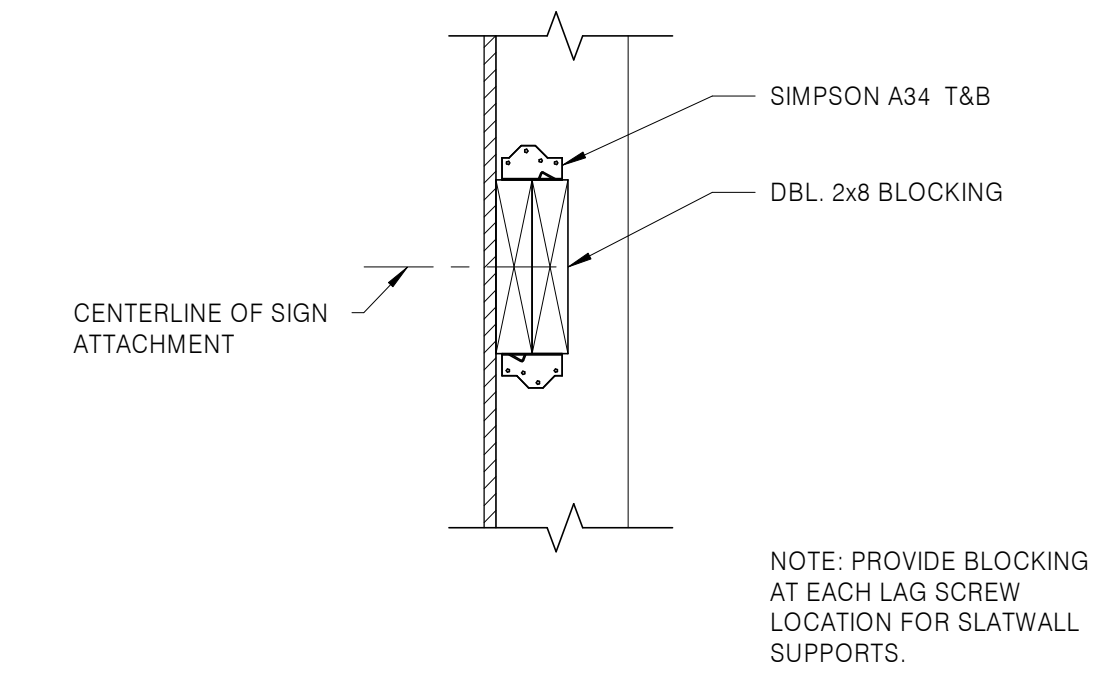
MODERN EXPLORER

STRUCTURAL DETAILS ROOF

S4.2



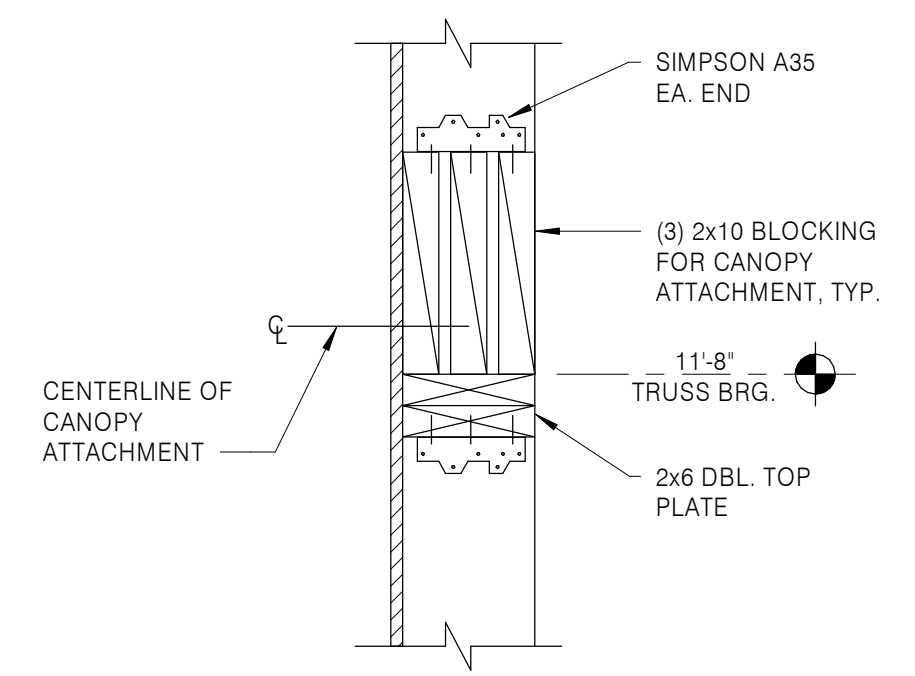
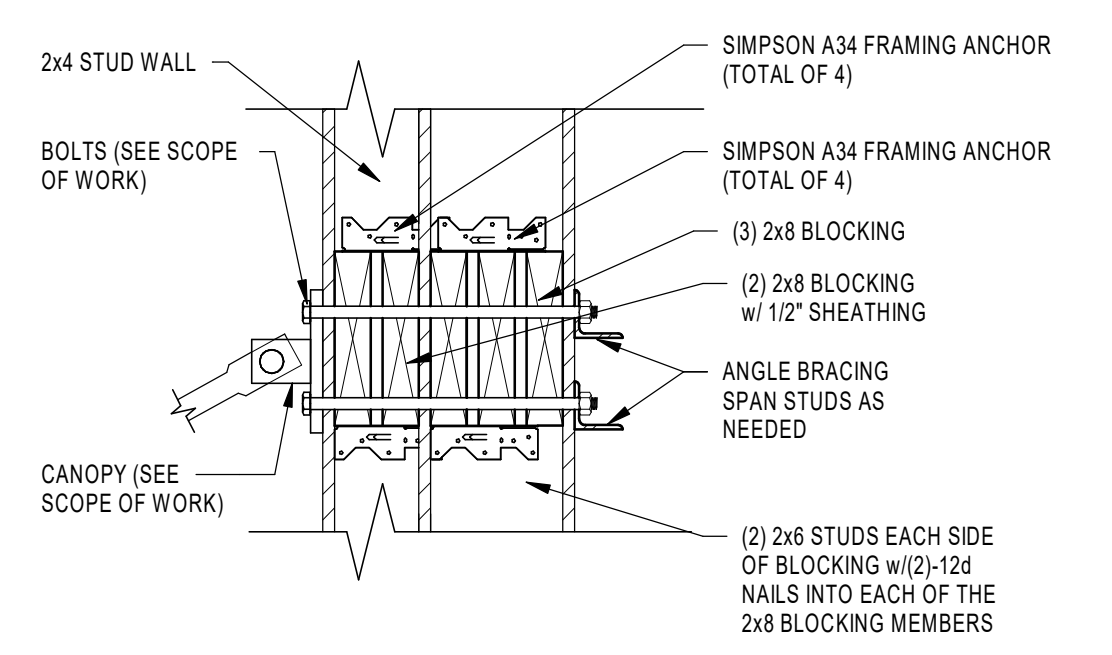
TYPICAL PARAPET CAP 1 1/2" = 1'-0" **1**



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

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

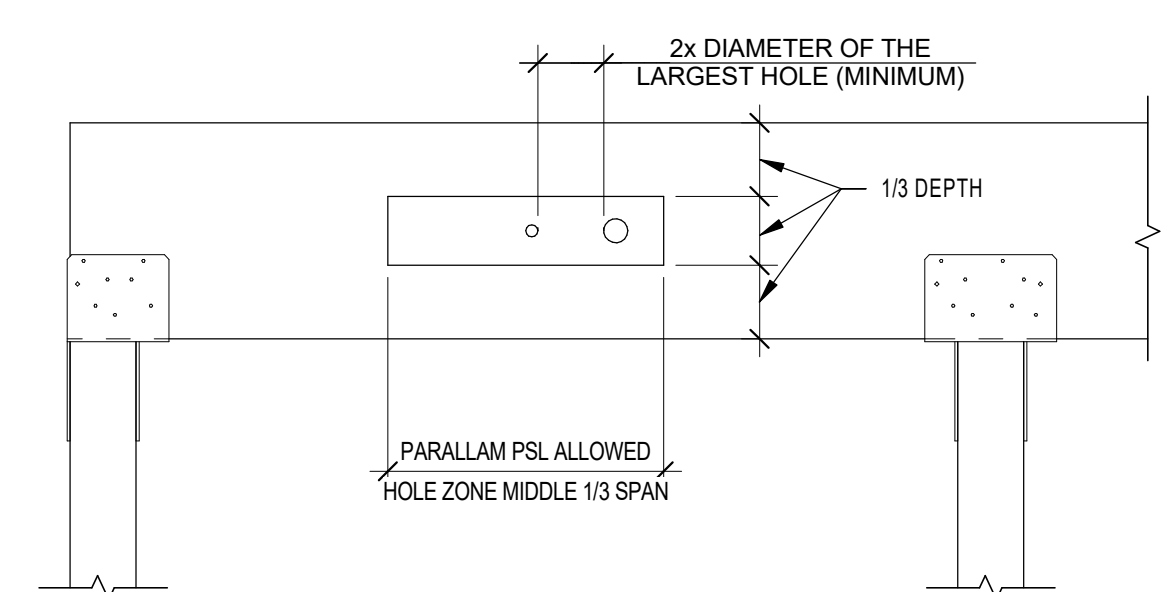
DRIVE THRU TOWER 1" = 1'-0" **5**



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

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

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" |

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

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

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

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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

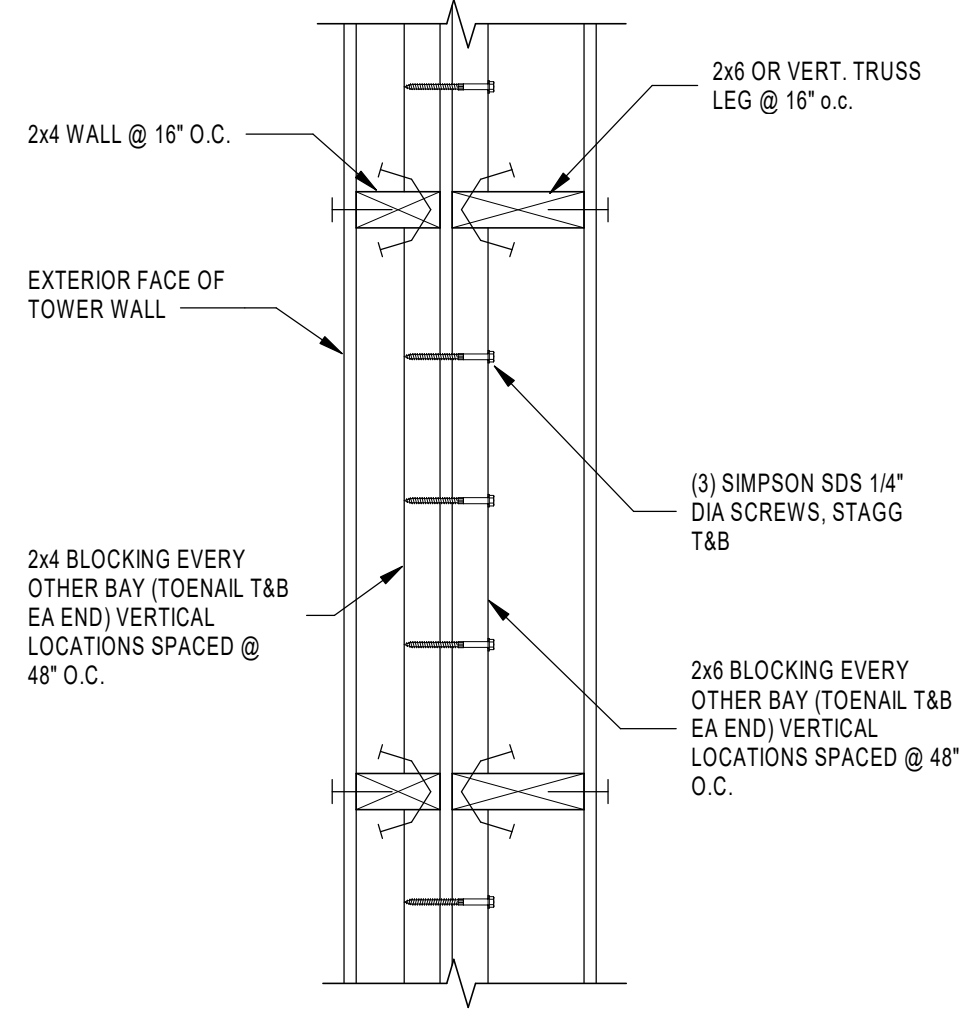
TACO BELL
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ROSEVILLE, MI 48066

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

**STRUCTURAL
DETAILS TACO
BELL TOWER**

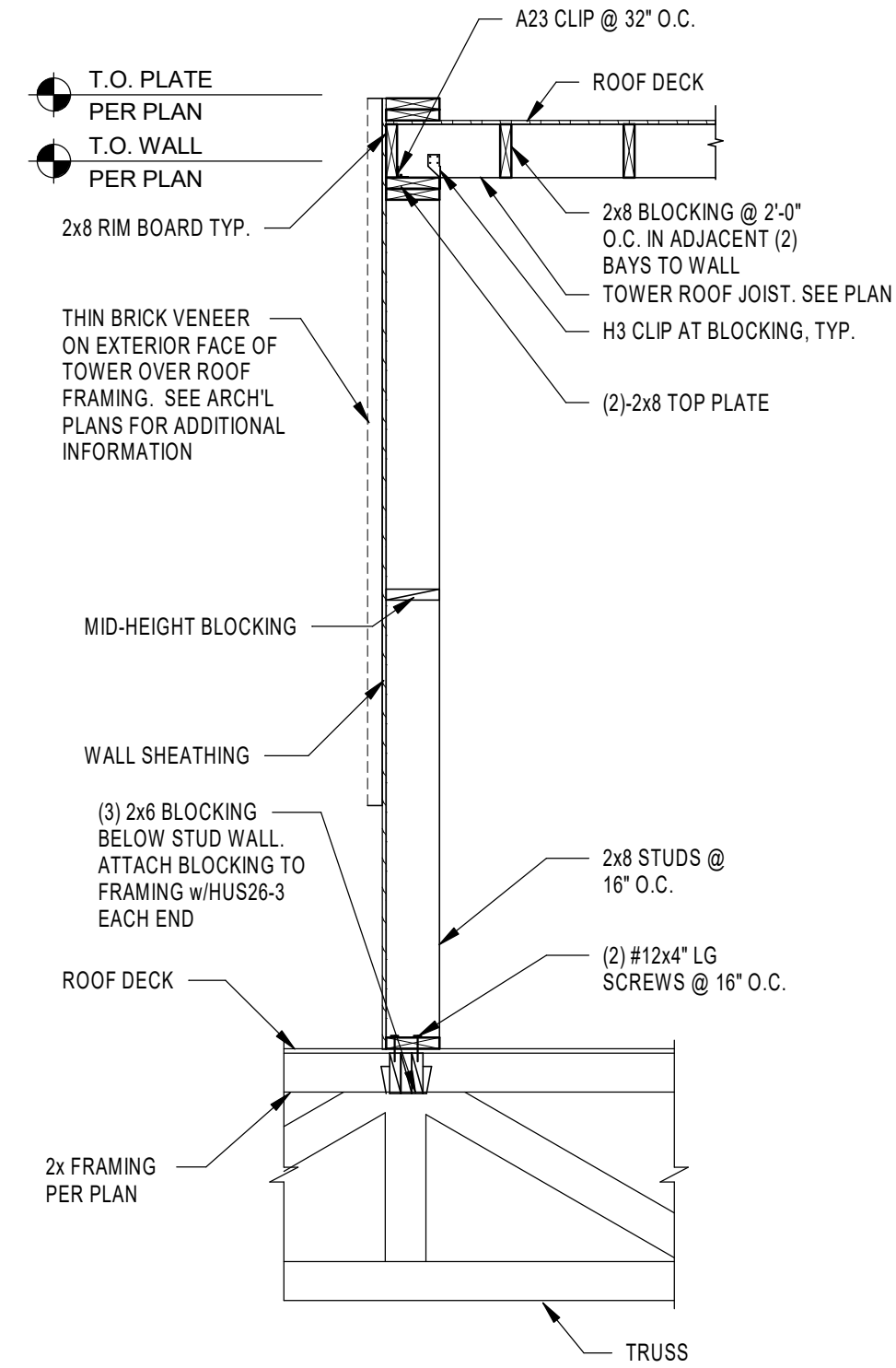
S4.3

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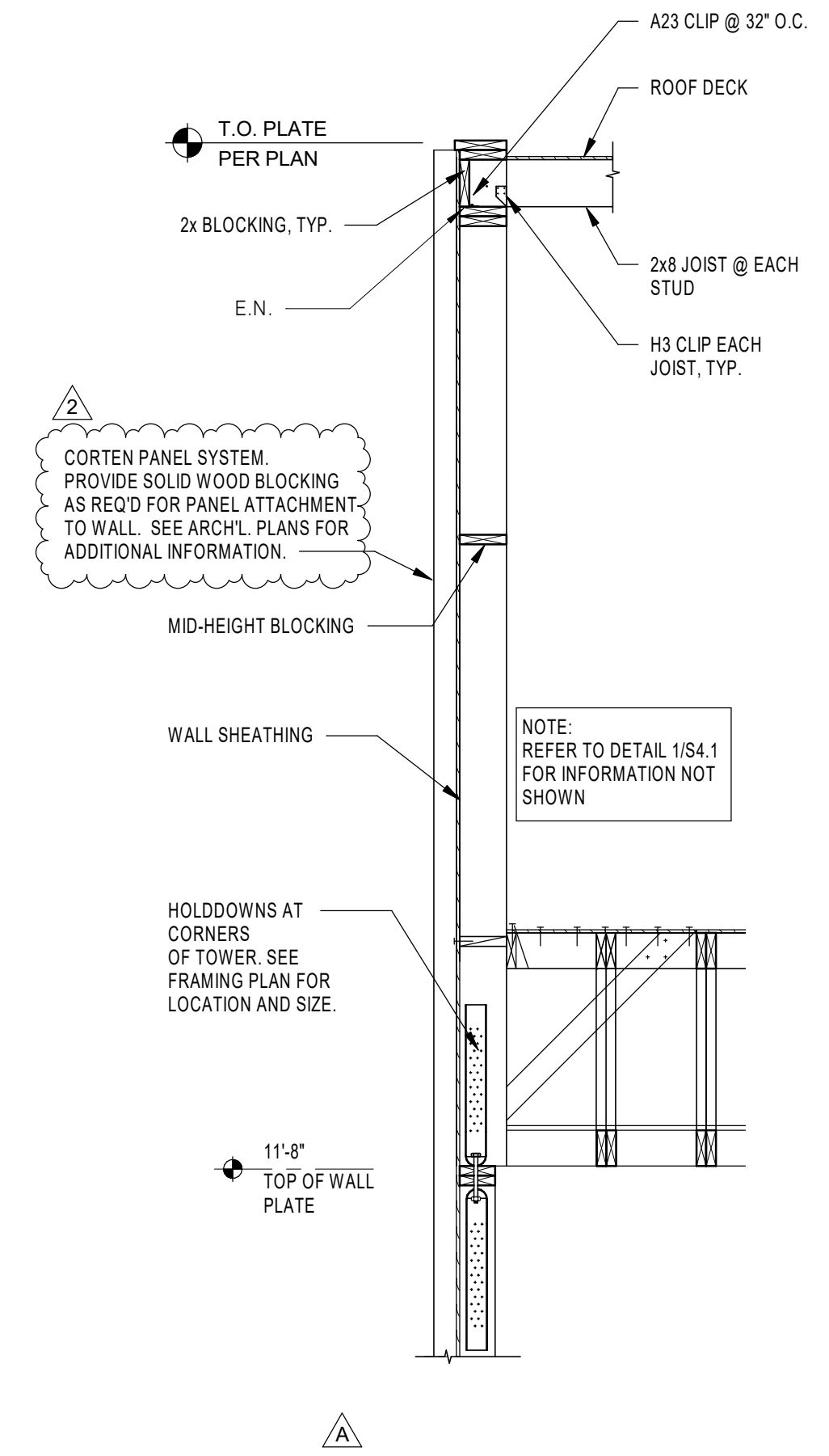


NOT USED N.T.S. 7

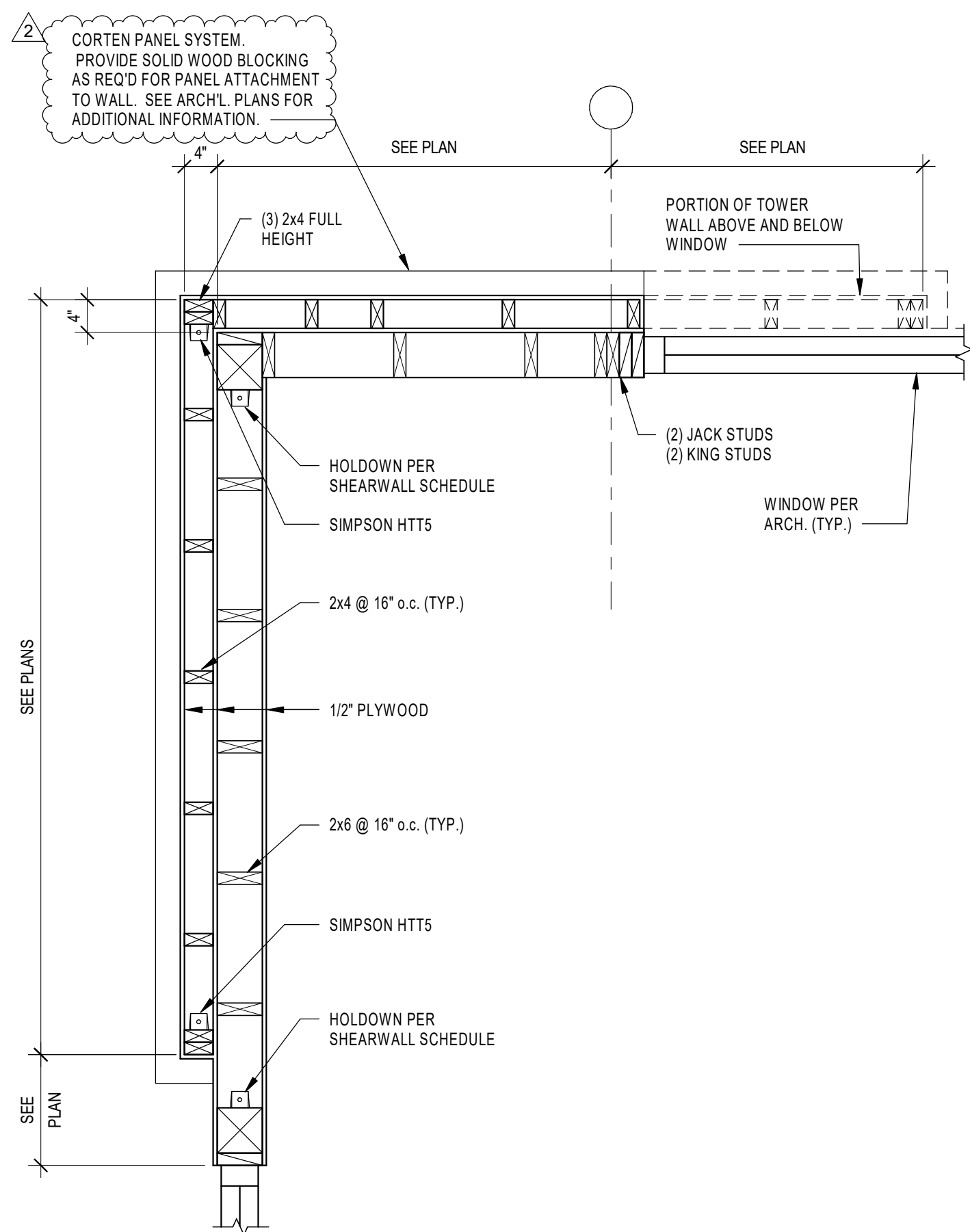
EXTERIOR WALL DETAIL AT TOWER 1 1/2" = 1'-0" 5



TOWER WALL SECTION 1/2" = 1'-0" 3

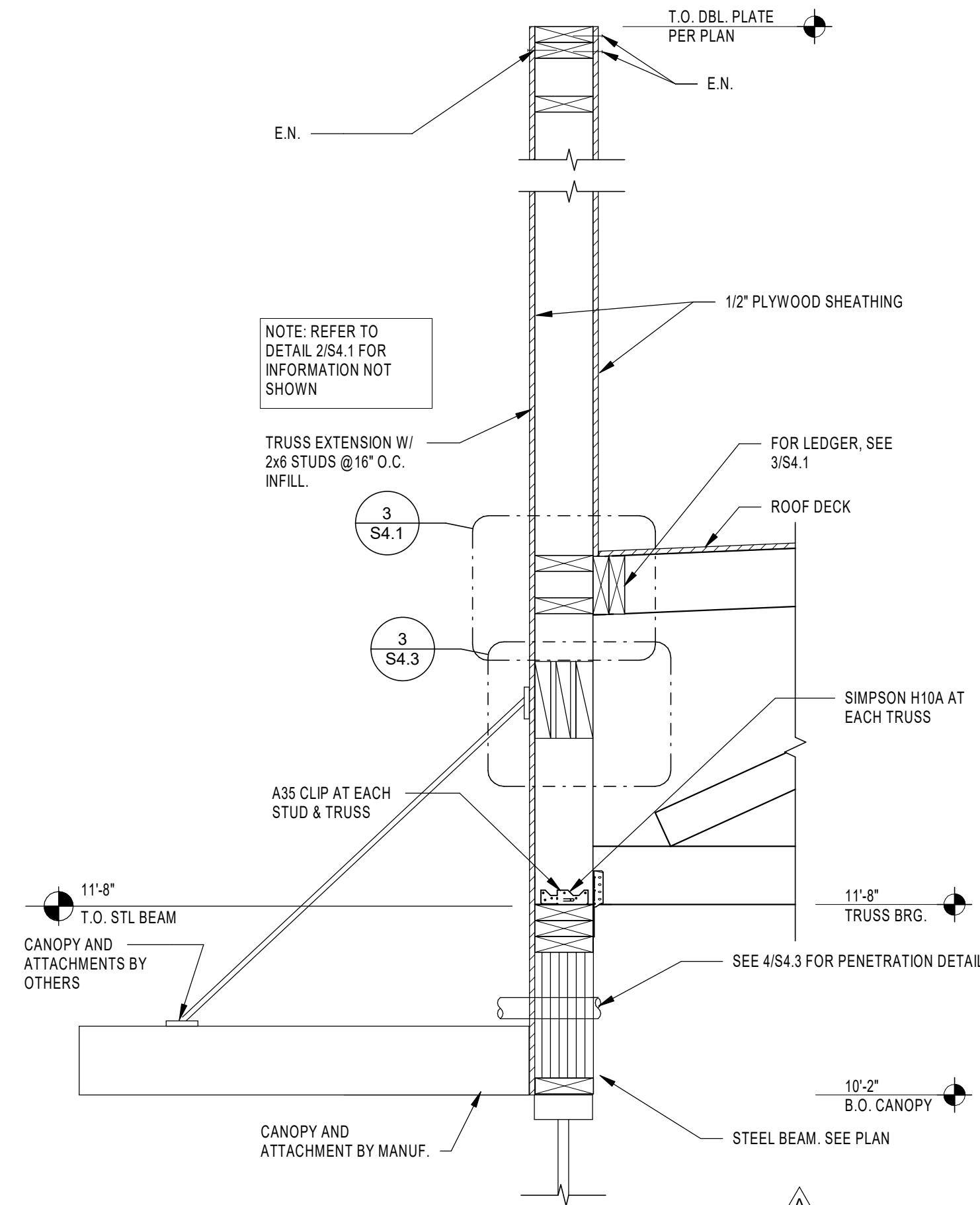


SECTION @ TOWER FRONT 1/2" = 1'-0" 1

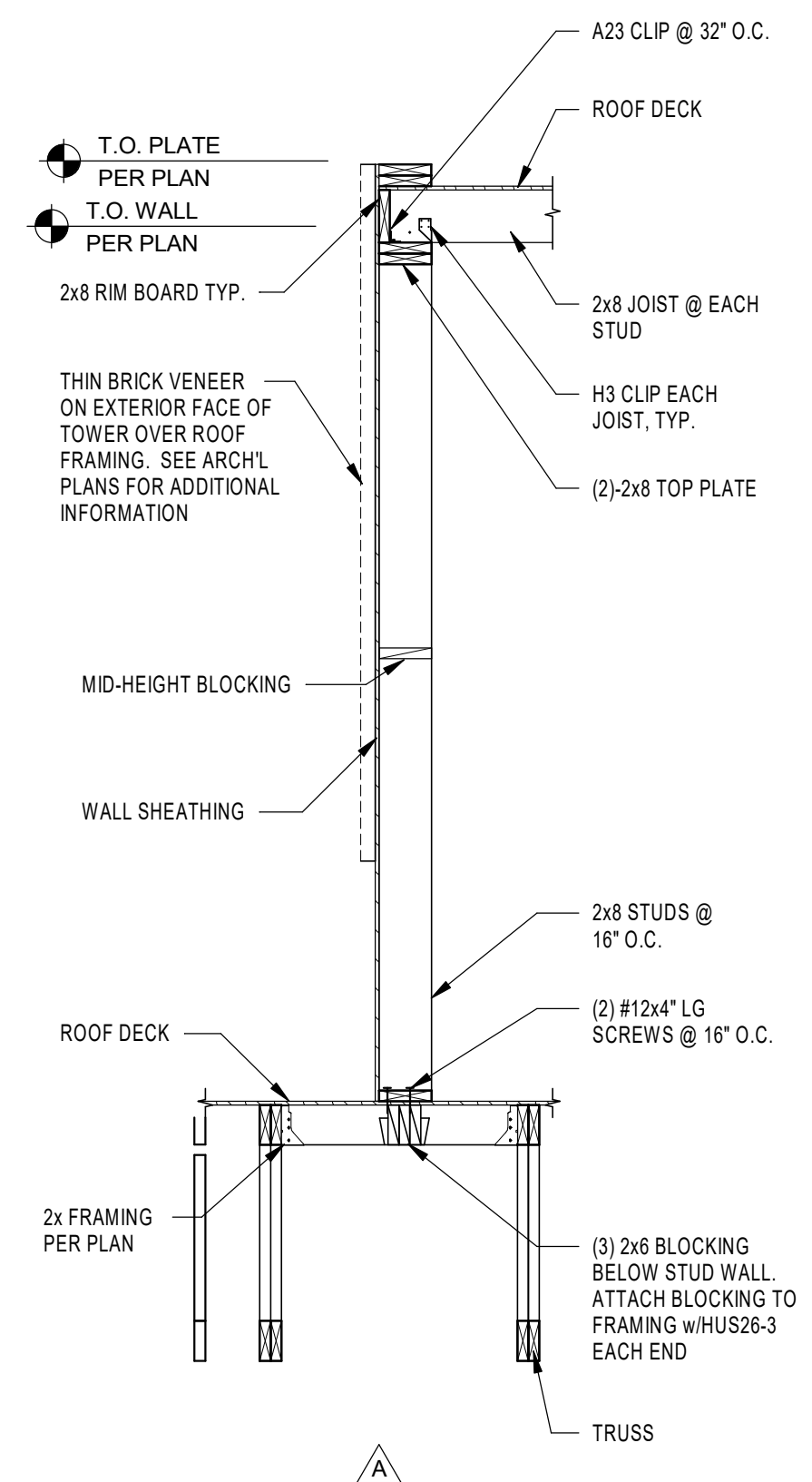


NOT USED N.T.S. 8

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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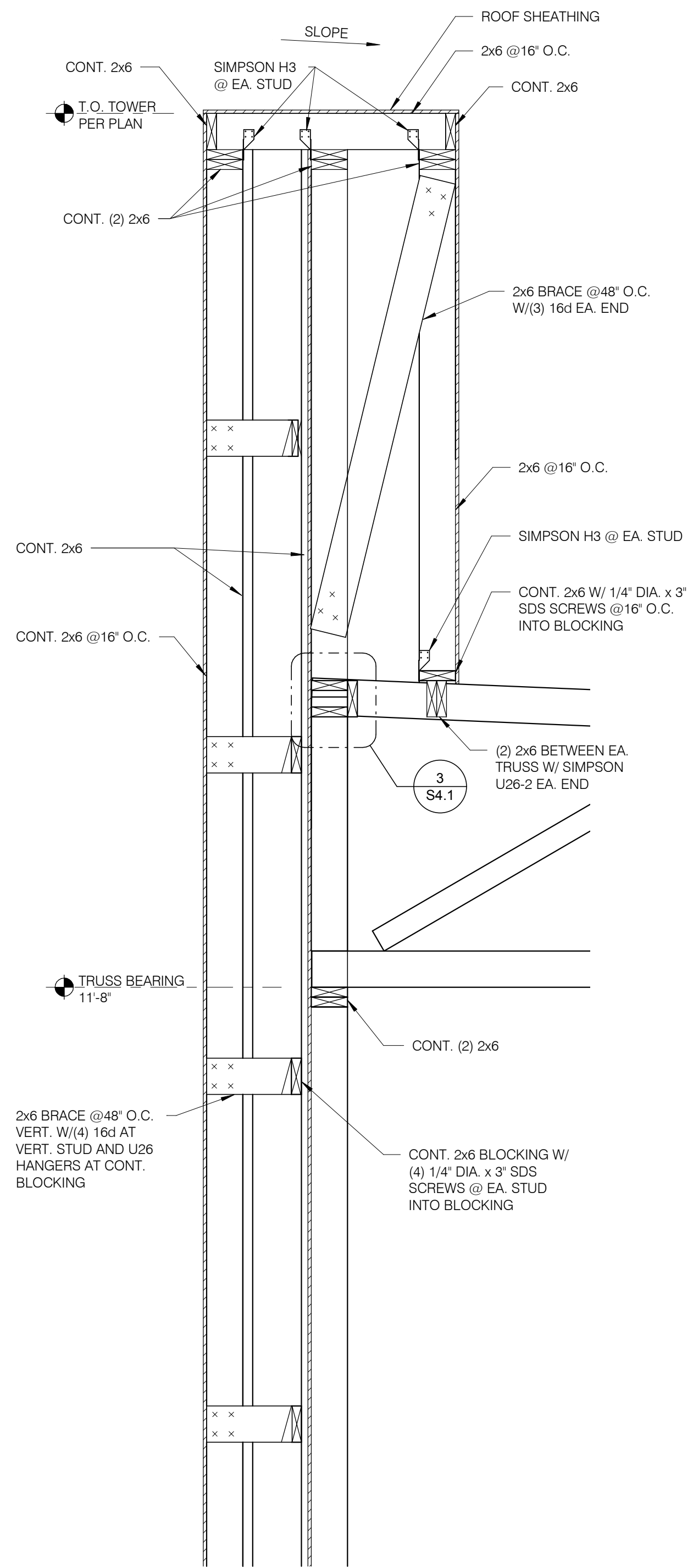
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| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| BRAND DESIGNER: | |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

TACO BELL
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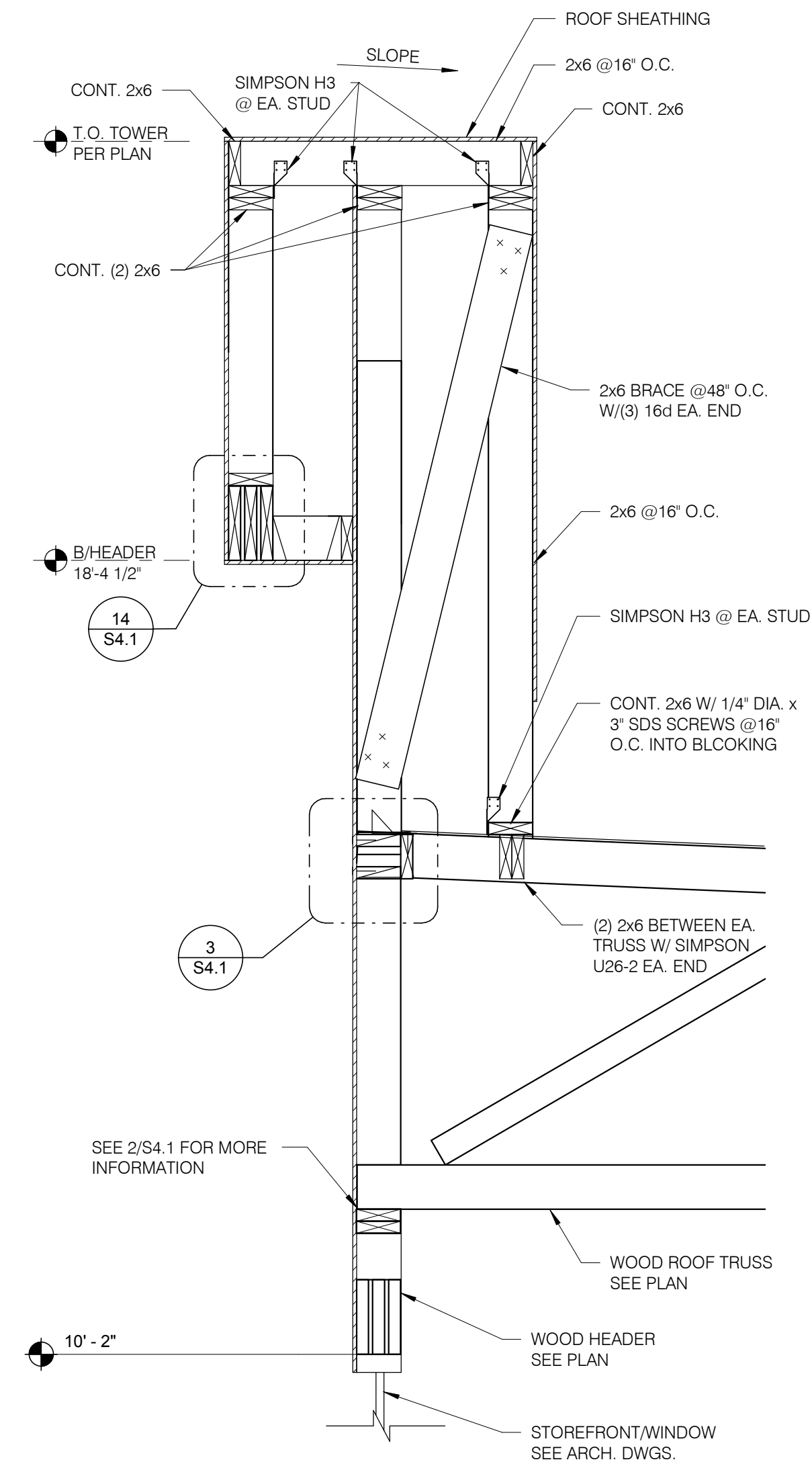

T40
 OPEN KITCHEN
 MODERN EXPLORER

STRUCTURAL SECTIONS

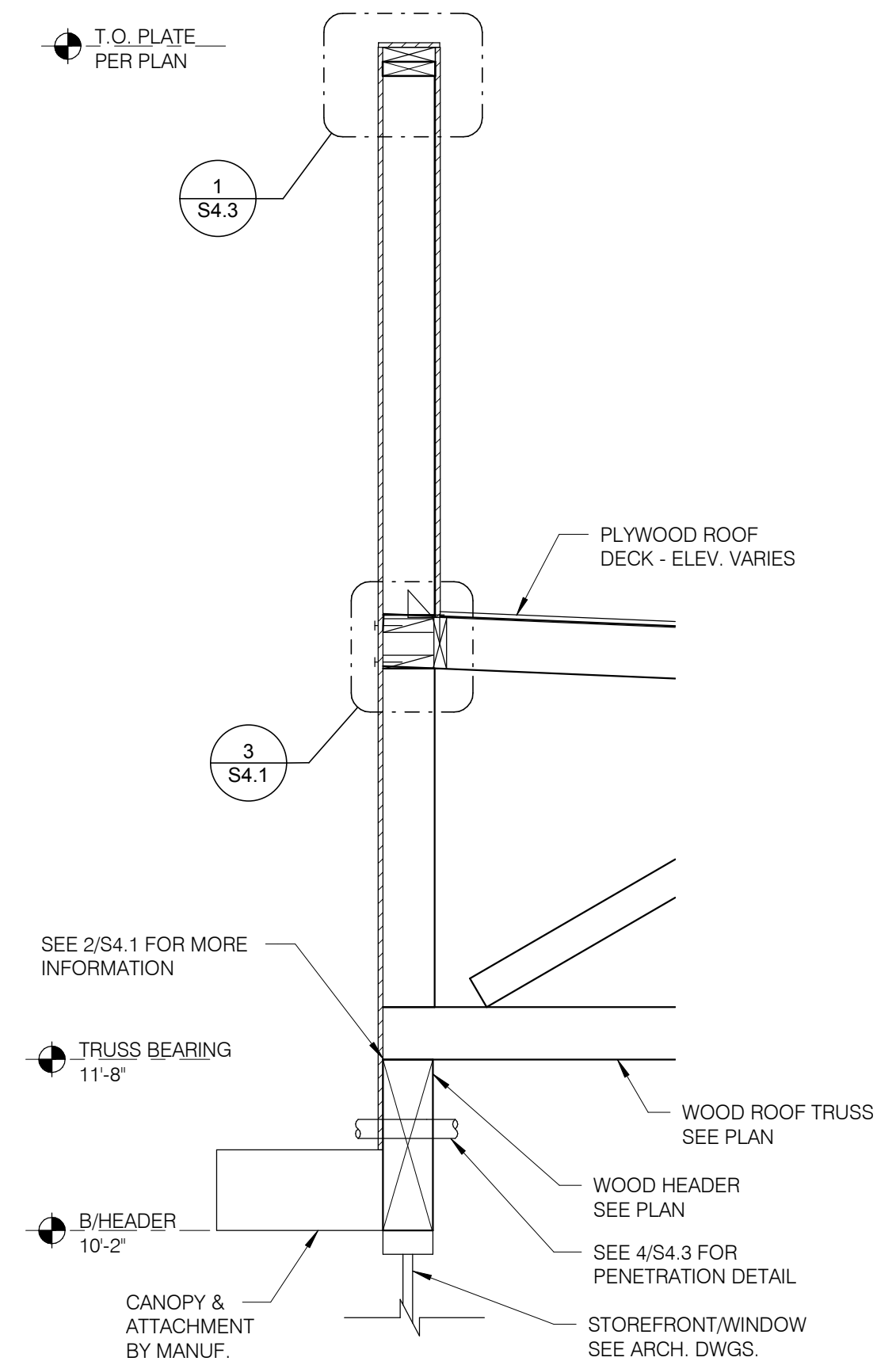
S4.4



SECTION @ ENTRY PIER 3/4" = 1'-0" **3**



SECTION @ ENTRY DOOR 3/4" = 1'-0" **2**



SECTION @ DINING WINDOW 3/4" = 1'-0" **1**

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CONTRACT DATE: 01.08.17
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 E. 13 MILE RD.
ROSELVILLE, MI 48066



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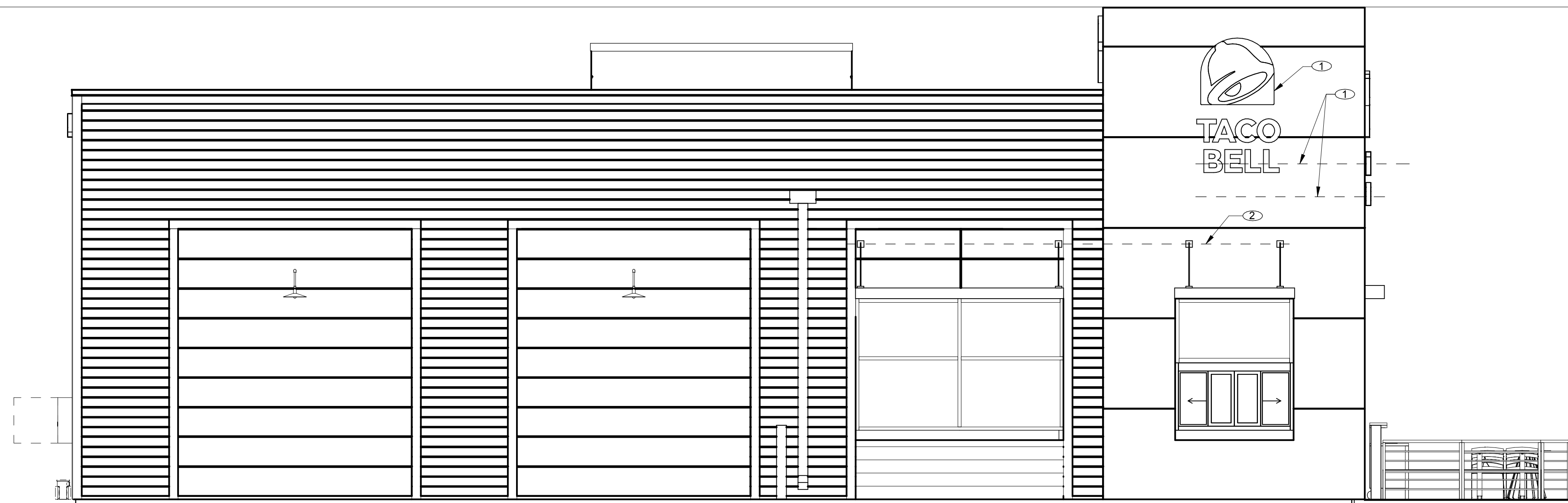
STRUCTURAL SECTIONS

S4.5

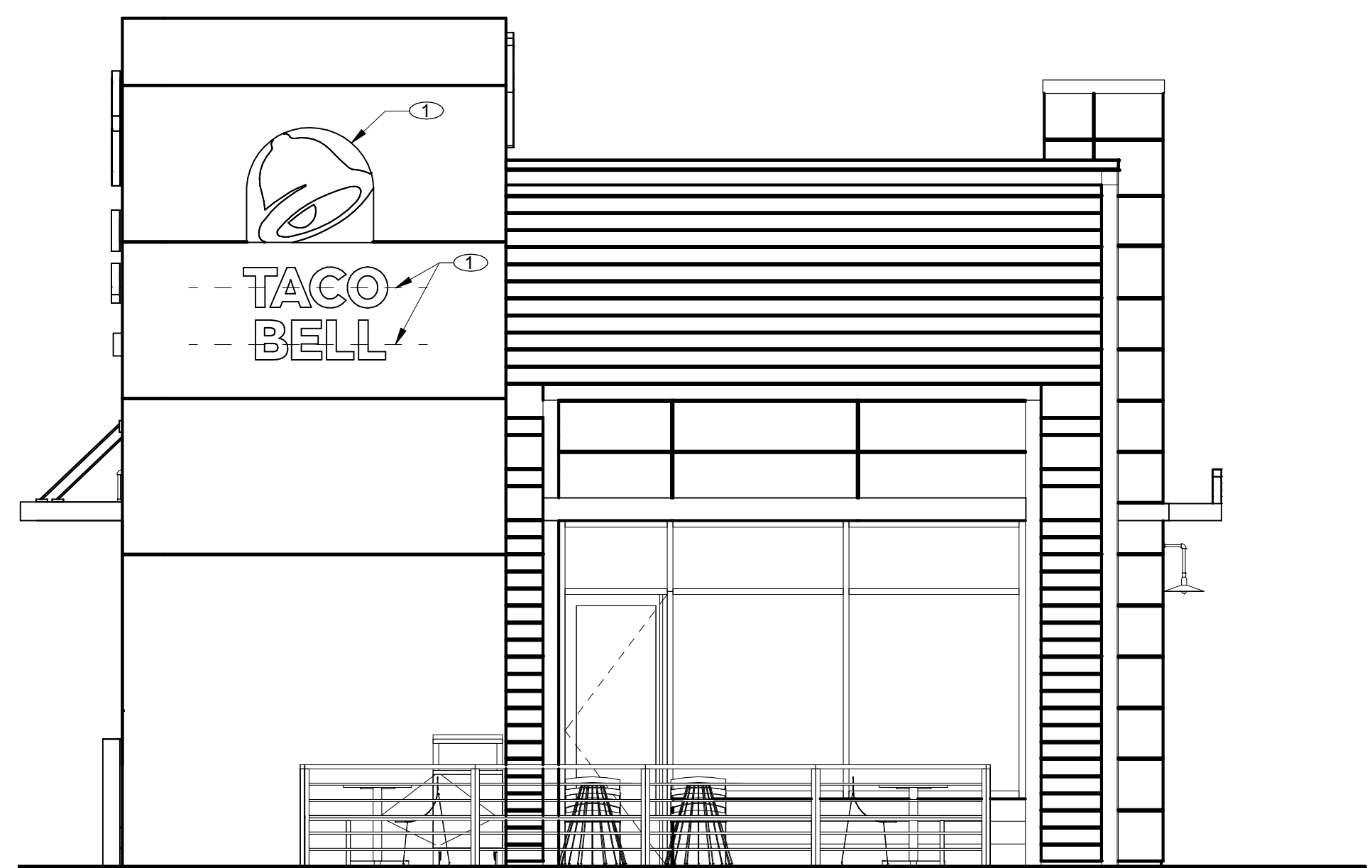
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RIGHT SIDE ELEVATION 1/4" = 1'-0" **A**



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**

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CONTRACT DATE: 01.08.17
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BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
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ROSEVILLE, MI 48066

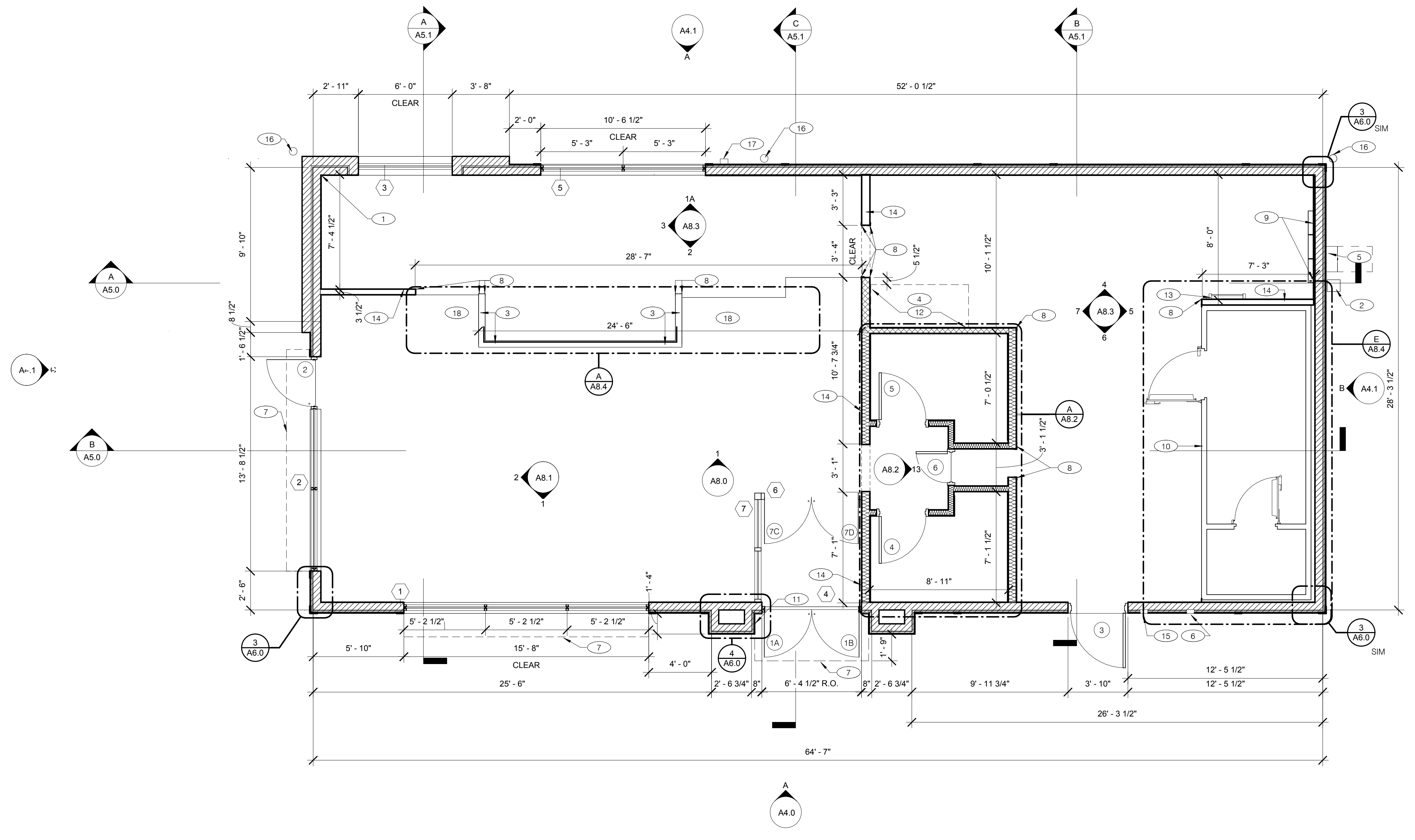


MODERN EXPLORER

**CANOPY/AWNING
BLOCKING
ELEVATIONS**

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

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CONTRACT DATE: 01.08.18
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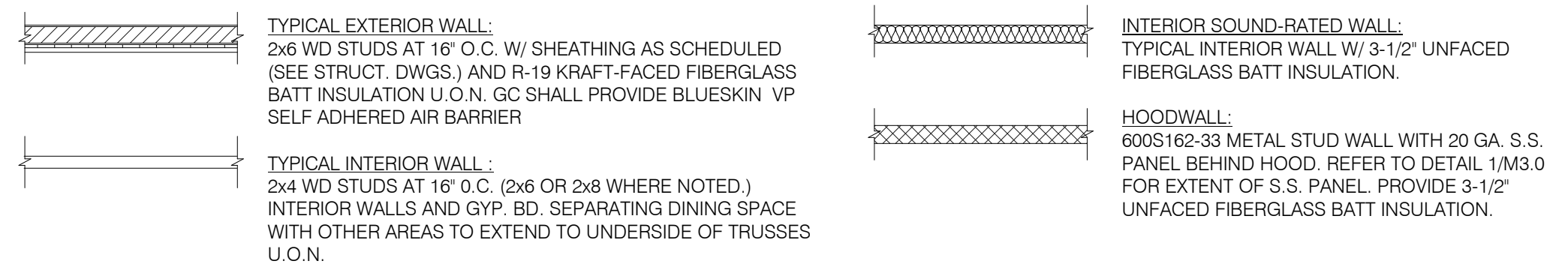
TACO BELL
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TACO BELL
T40
 OPEN KITCHEN
 MODERN EXPLORER

FLOOR PLAN

A1.0

PLOT DATE: 5/30/2018 3:16:29 PM



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.

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 / WAJNSCOT 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 RECESSED 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 SPOUTS
- 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.

WALL LEGEND

FLOOR PLAN NOTES

PLAN KEYNOTES N.T.S.

- 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.



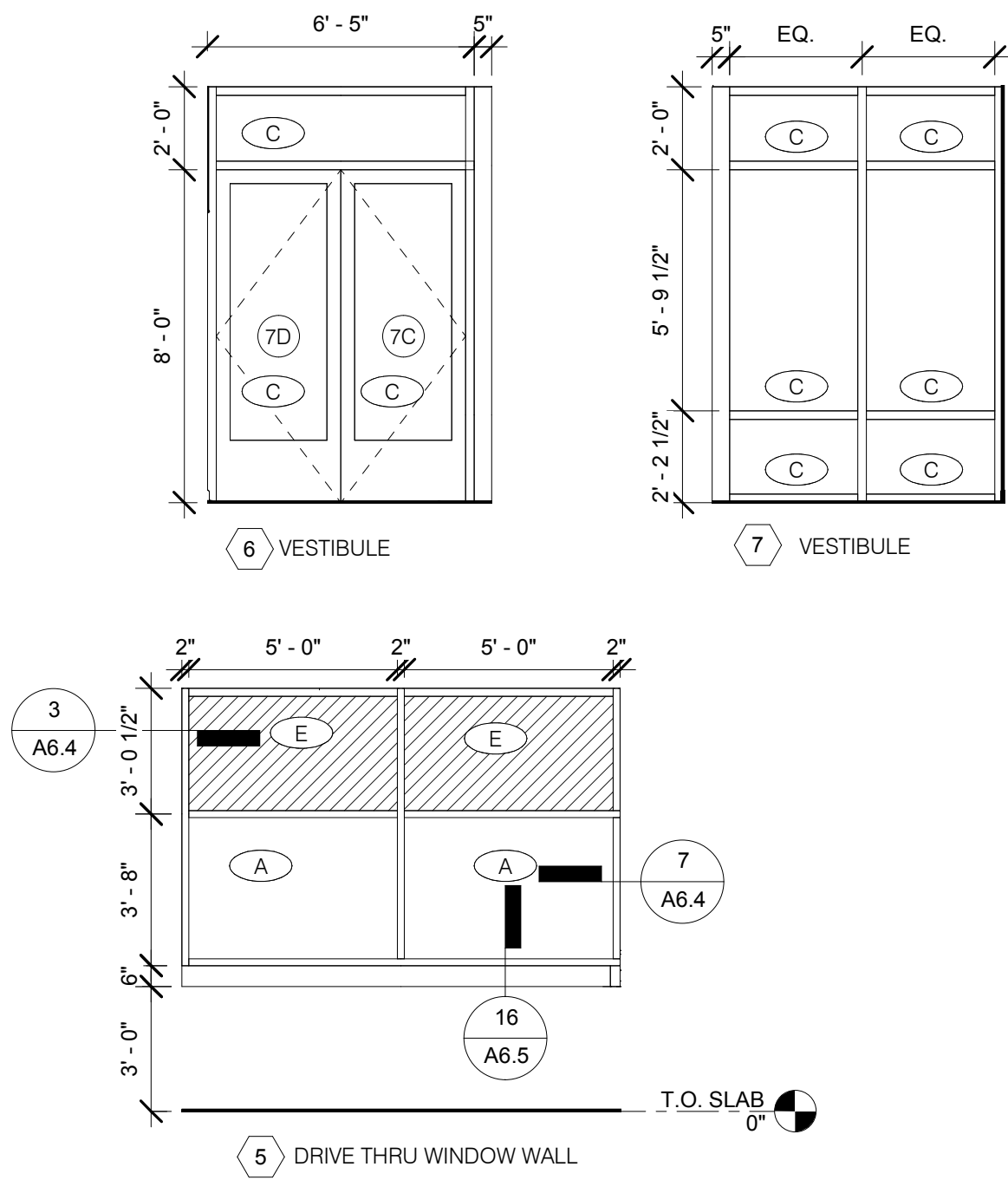
**** ALL STOREFRONT GLAZING SHALL BE LOW 'E' SOLAR GLASS ****

NOTES N.T.S.

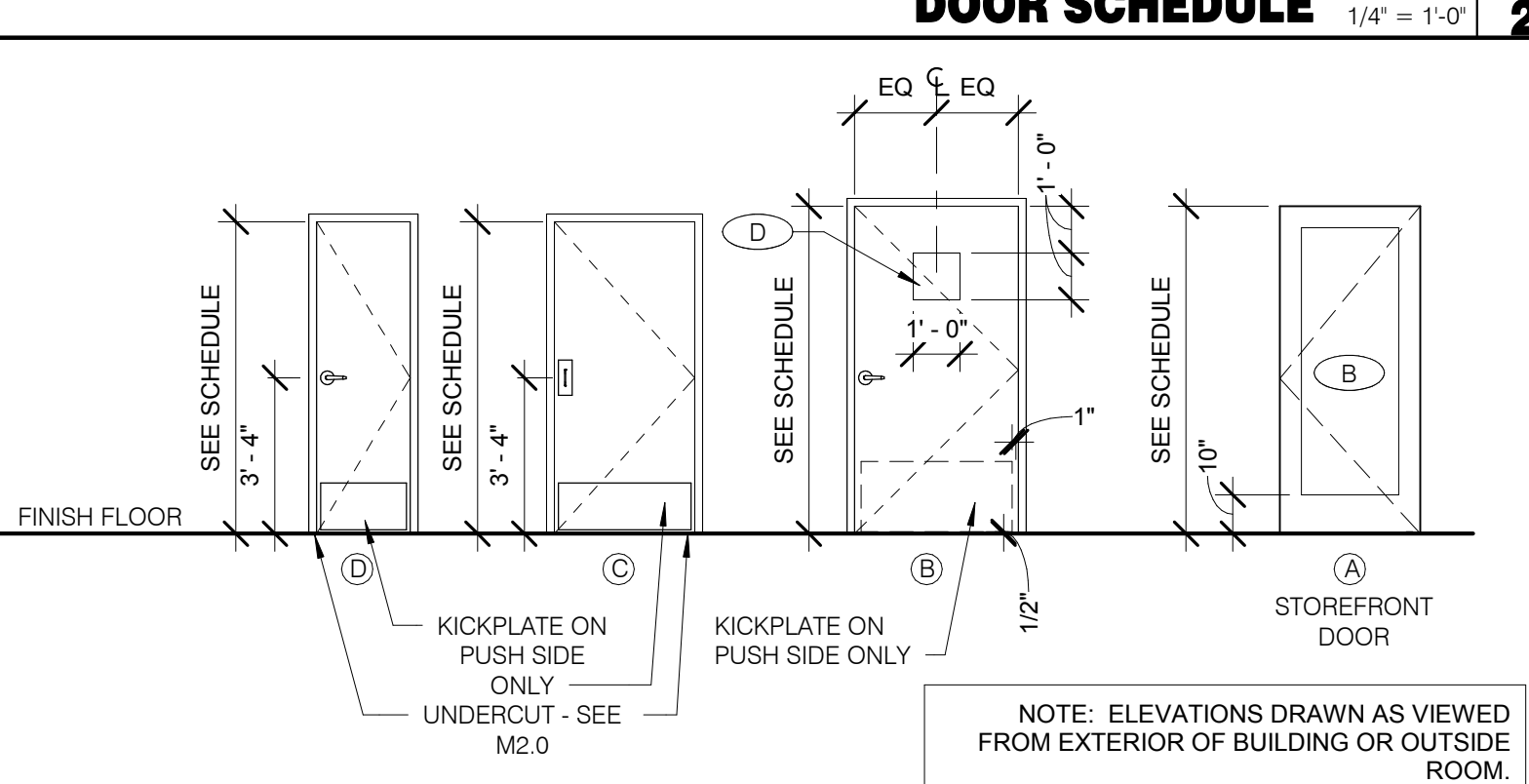
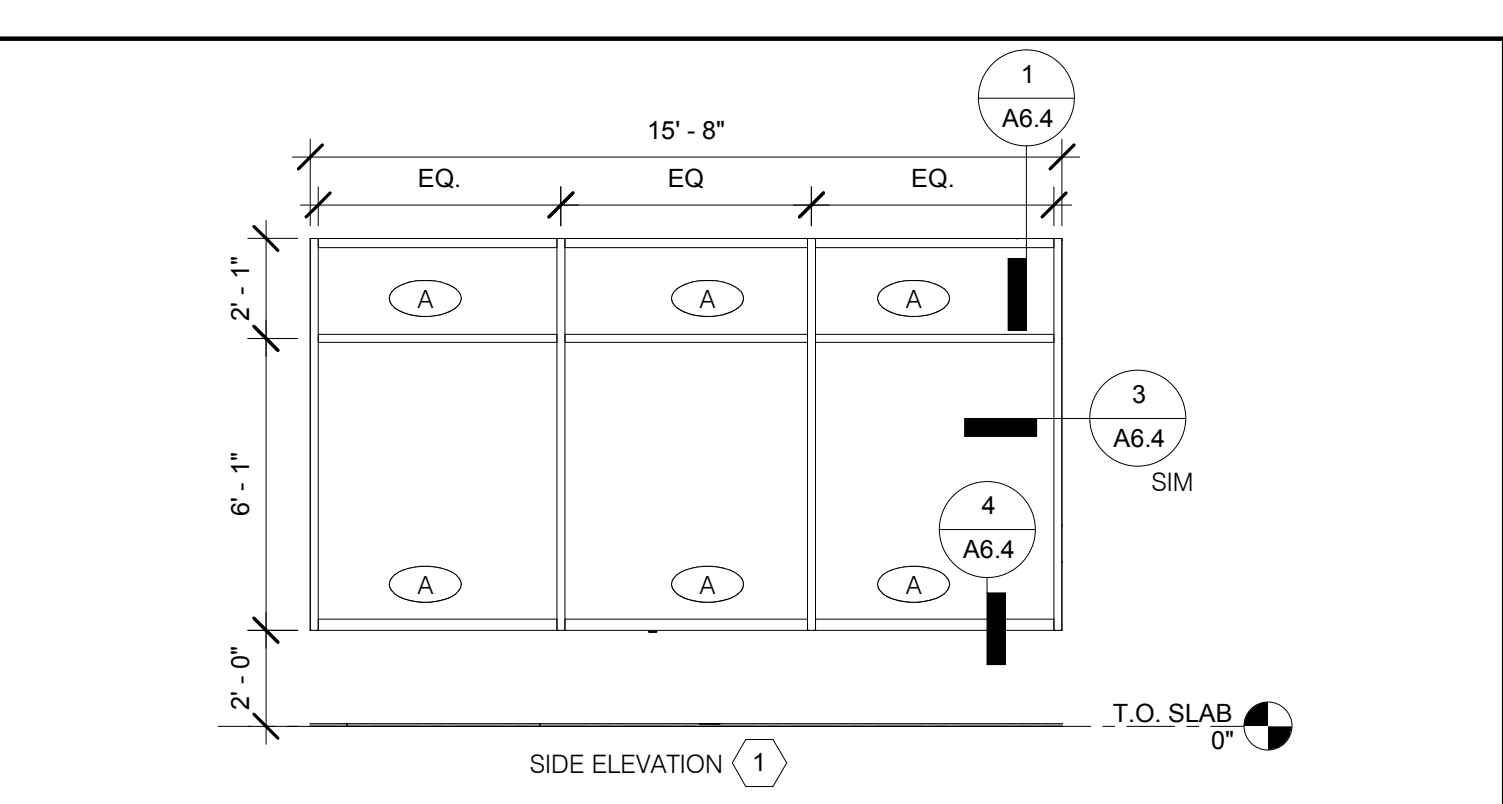
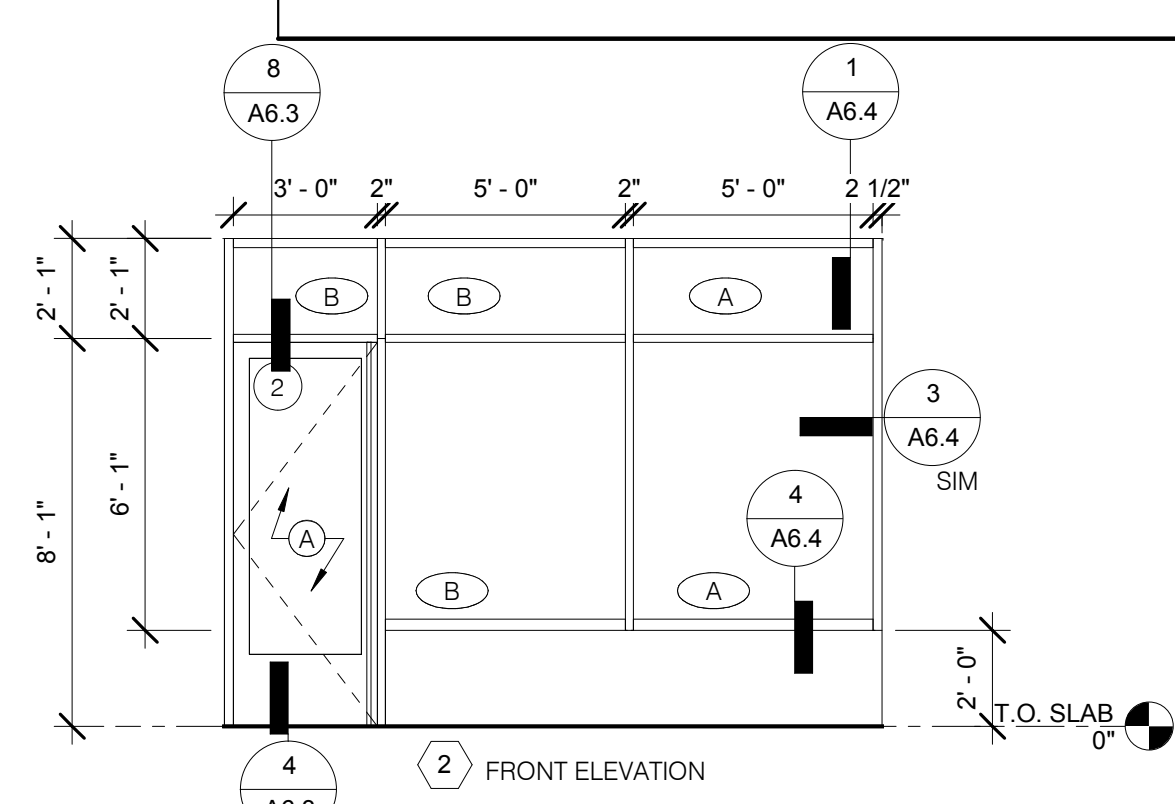
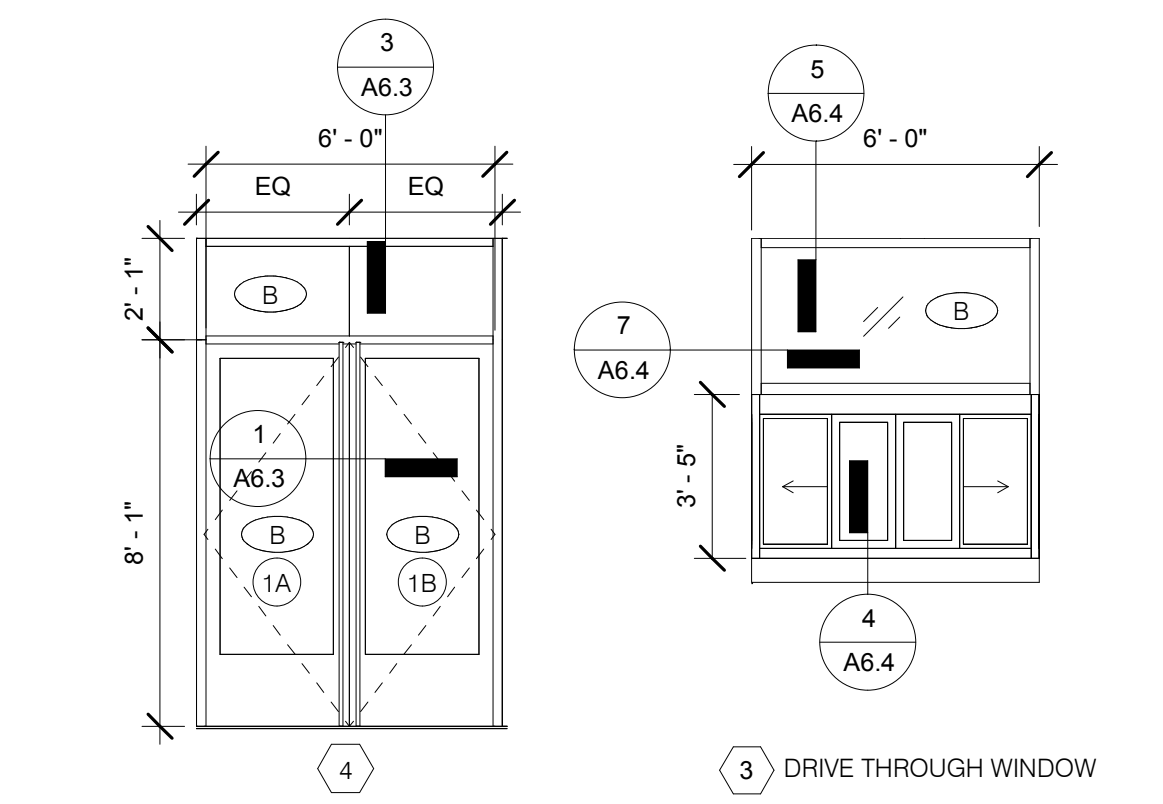
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DOOR SCHEDULE NOTES N.T.S.

1



| DOOR NO. | NAME | DOOR SIZE | | | TYPE | DOOR | FRAME | BUTTS | LOCKS | CLOSERS | KICKPLATE | THRESHOLD | DOOR STOP | MISCELLANEOUS | | | | DETAIL LOCATIONS | | | | DOOR NOTES | | | |
|----------|-----------------|-----------|--------|-----------|------|------|-------|-------|---|---------|-----------|-----------|-----------|----------------------|-------|----------|------|------------------|-----------|-------------|-------------|------------|-------------|--|--|
| | | WIDTH | HEIGHT | THICKNESS | | | | | | | | | | CLUTTER PEST CONTROL | SWEEP | UNDERCUT | SIGN | COAT HOOK | DOOR SIGN | HEAD DETAIL | JAMB DETAIL | | SILL DETAIL | | |
| 1A | ENTRY | 3'-0 3/8" | 8'-0" | 1 3/4" | A | AL | AL | X | 1 1/2 PR MCKINNEY #TA2714.4.5'X4.5' US88D | | | | | X | | | X | X | X | | | | | | DOOR AND FRAME - DARK BRONZE FINISH - 4, 5, 7, 8, 10, 13, 15 |
| 1B | ENTRY | 3'-0 3/8" | 8'-0" | 1 3/4" | A | AL | AL | X | | | | | | | | | X | X | X | | | | | | DOOR AND FRAME - DARK BRONZE FINISH - 4, 5, 8, 10, 13, 15 |
| 2 | DINING | 3'-0" | 8'-0" | 1 3/4" | A | AL | | X | | | | | | | | | X | 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 | X | | | | | | | | | | | | X | | | | | DL-1 LAMINATE FINISH - 1, 2, 3, 4, 6, 9, 10, 11, 14 |
| 4 | MENS RESTROOM | 3'-0" | 6'-8" | 1 3/4" | C | WD | HM | X | | | | | | | | | | | | X | X | X | | | DL-1 LAMINATE FINISH - 1, 2, 3, 4, 6, 9, 10, 11, 14 |
| 5 | WOMENS RESTROOM | 3'-0" | 6'-8" | 1 3/4" | C | WD | HM | X | | | | | | | | | | | | X | X | X | | | DL-1 LAMINATE FINISH - 1, 2, 3, 10, 14 |
| 6 | CLOSET | 2'-0" | 6'-8" | 1 3/4" | D | WD | HM | X | | | | | | | | | | | | X | | | | | DOOR AND FRAME - DARK BRONZE FINISH - 4, 5, 7, 8, 10, 13, 15 |
| 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 |



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

5

DOOR TYPES

3

| DATE | BY | REVISION |
|----------|-----|-------------------|
| 05/31/18 | JFC | |
| 04/20/18 | | BUILDING COMMENTS |
| 02/19/18 | | ISSUED FOR PERMIT |

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

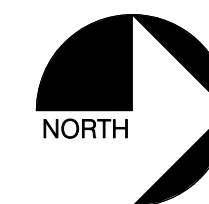
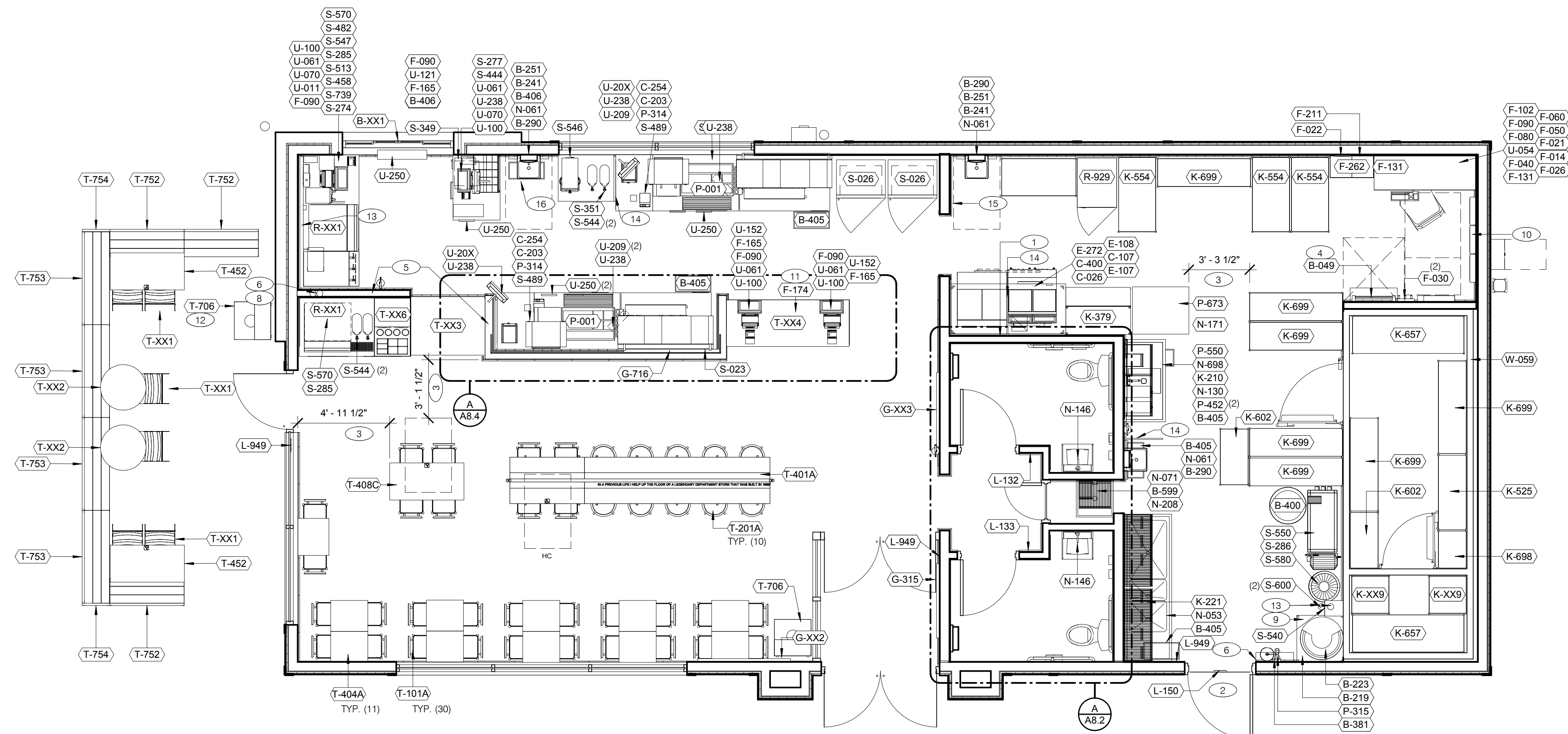
TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

DOOR AND WINDOW ELEVATIONS & SCHEDULES

A1.1

PLOT DATE: 5/30/2018 3:16:31 PM



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| 05/31/18 | JFC |
| 04/20/18 | BUILDING COMMENTS |
| 02/19/18 | ISSUED FOR PERMIT |
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CONTRACT DATE: 01.08.18
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 STORE NUMBER: 2016088.09

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 | 48" 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-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 |
| G-XX2 | 1 | TBD | TBD |
| G-XX3 | 1 | TBD | TBD |

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

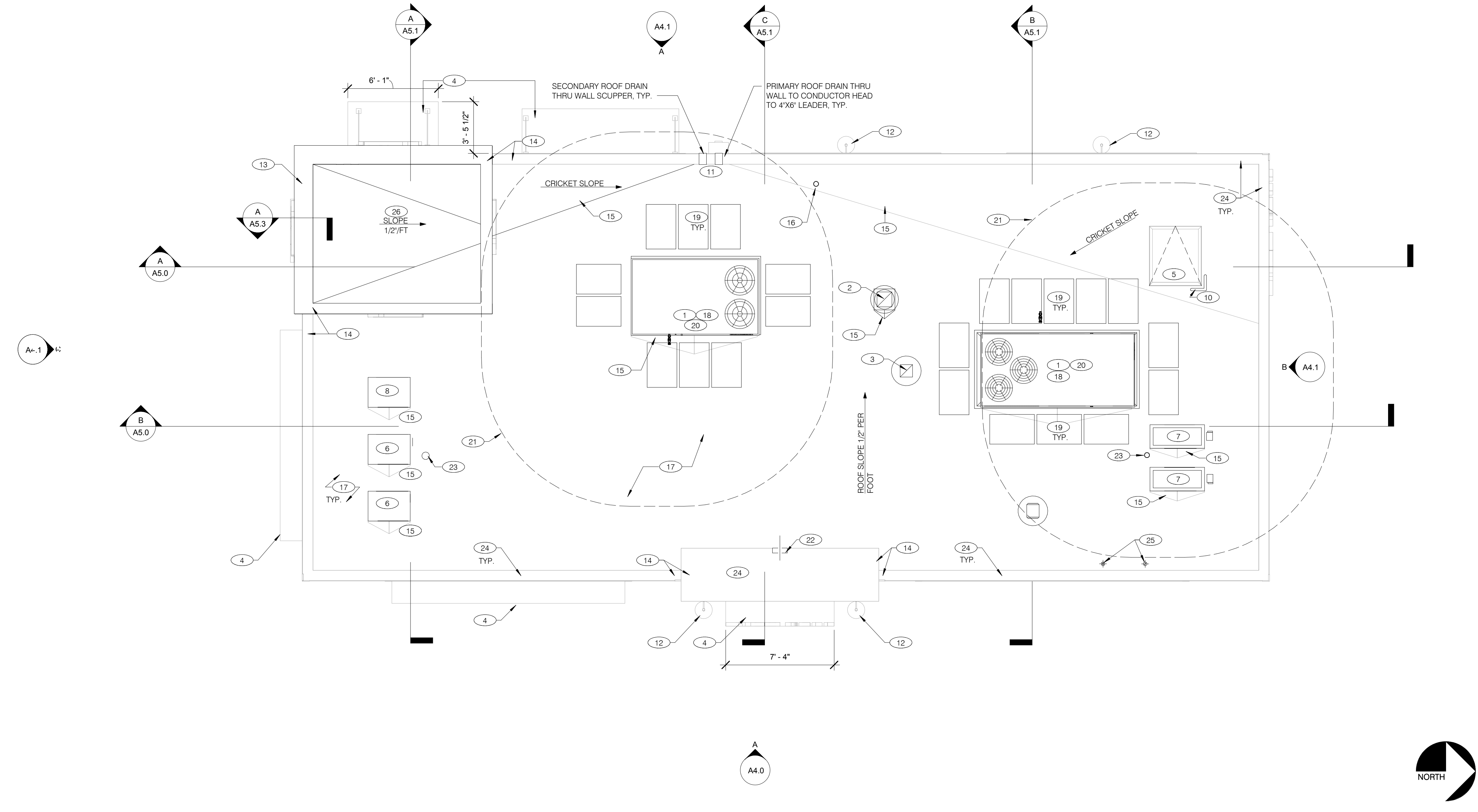
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ROSEVILLE, MI 48066



T40
OPEN KITCHEN
MODERN EXPLORER

EQUIPMENT/ SEATING PLAN

A2.0



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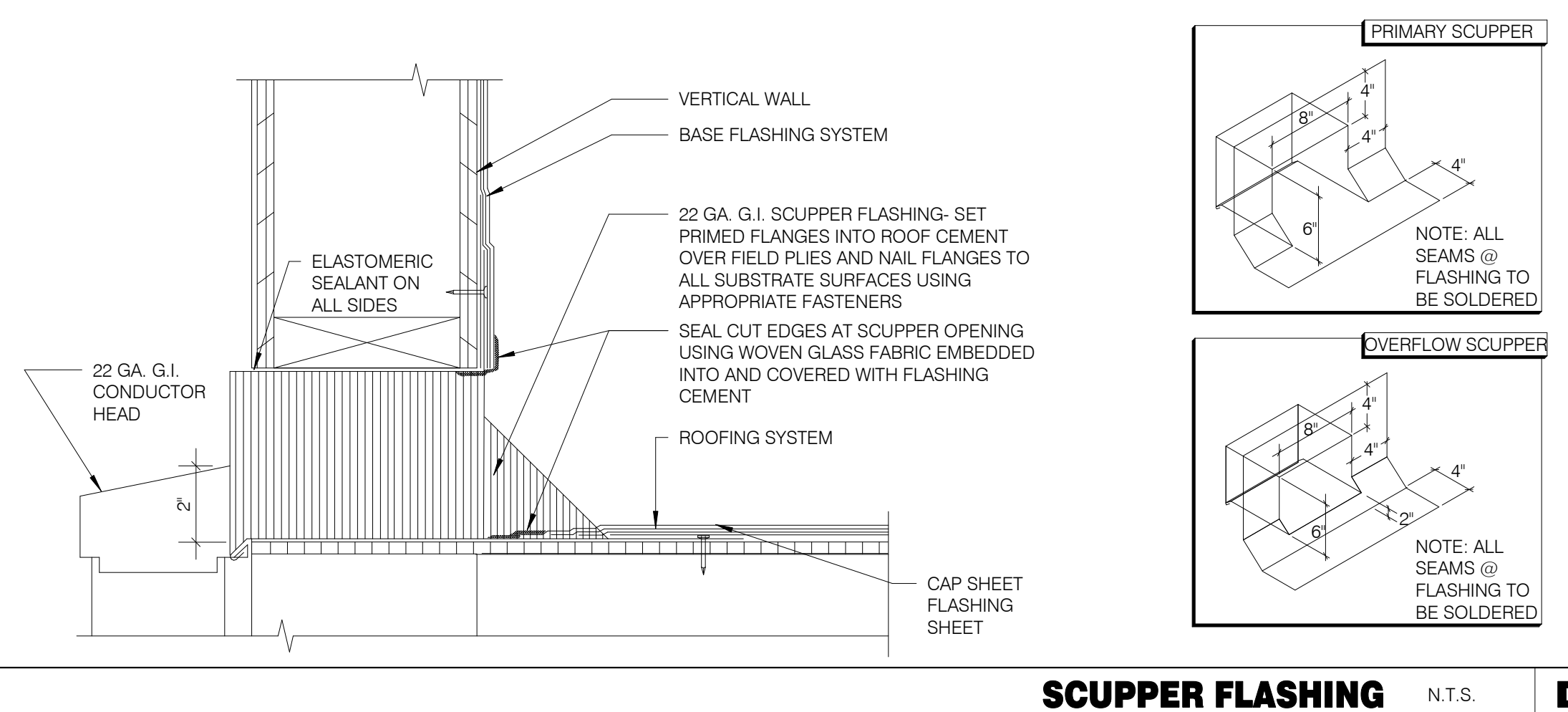
ROOF PLAN 1/4" = 1'-0" **A**

TACO BELL
 20779 E. 13 MILE RD.
 ROSELVILLE, MI 48066



ROOF PLAN

A3.0



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.

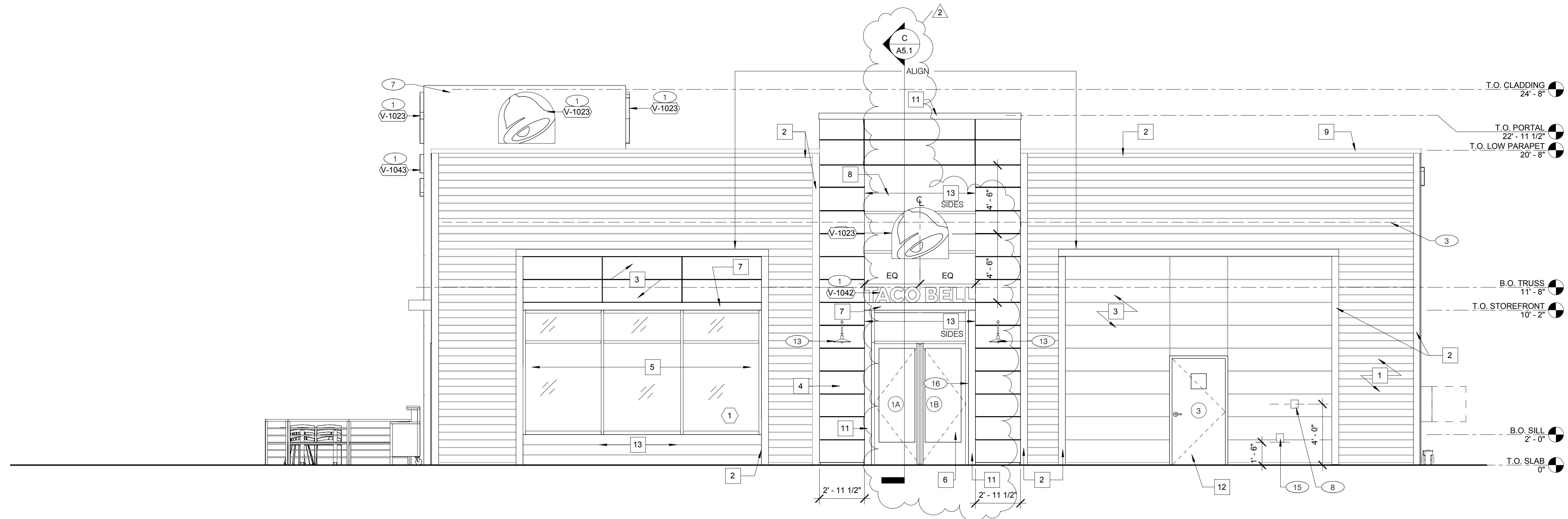
MISCELLANEOUS:
 A. ROOF PENETRATIONS CLOSER THAN 12" FROM ANOTHER WILL NOT BE ALLOWED.
 B. EXHAUST FANS MIN. 10'-0" AWAY FROM ALL AIR INTAKE / SUPPLY.
 C. LOCATE WALK-IN CONDENSERS ON ROOF ONLY IF REQUIRED BY CODE.

PRIMARY SCUPPER
 NOTE: ALL SEAMS @ FLASHING TO BE SOLDERED

OVERFLOW SCUPPER
 NOTE: ALL SEAMS @ FLASHING TO BE SOLDERED

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 NOT USED.
 - 10 ROOF LADDER EXTENSION HANDLE BY MANUFACTURER OF ROOF HATCH
 - 11 SCUPPER AND DOWNSPOUT. SEE DETAIL D
 - 12 EXTERIOR LIGHT FIXTURES
 - 13 TOWER PANEL SYSTEM AND FRAME, BY SIGN VENDOR
 - 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 MAINTENANCE 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 TOWER MANUFACTURER.
- ROOF PLAN KEY NOTES** N.T.S. **B**



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

| NO. | QTY | ITEM DESCRIPTION |
|--------|-----|--|
| V-1023 | 6 | SWINGING BELL - PURPLE LOGO - FACE LIT - 36" X 3'10" |
| V-1042 | 1 | TB 12" CHANNEL LETTER WHITE - LINEAR |
| V-1043 | 2 | TB 14" CHANNEL LETTER WHITE - (3) STACKED AND (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.

- 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 TOWER AND INTEGRAL SIGNAGE BY GC. GC TO COORDINATE BLOCKING LOCATIONS.
- ⑧ CO2 FILLER VALVE & COVER. SEE DETAIL 5/A6.1
- ⑨ ELECTRIC METER
- ⑩ NOT USED.
- 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

SIGNAGE N.T.S **E**

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

| SYMBOL | AREA | MANUFACTURER | MATERIAL SPEC | COLOR | ALTERNATE MFR. | ALTERNATE MATERIAL SPEC | ALTERNATE MATERIAL COLOR | CONTACT INFORMATION |
|--------|--------------------------------------|-------------------|--------------------------|----------------------------------|----------------|-------------------------|--------------------------|--|
| 1 | EXTERIOR FIBER CEMENT PANELS | JAMES HARDIE | ARTISAN V RUSTIC | PAINTED SW7045 INTELLECTUAL GRAY | NICHIHA | ROUGH SAWN | "SMOKE" | NICHIHA: MATT STEPHENSON 770-789-8228 MSTEPHENSON@NICHIHA.COM |
| 2 | EXTERIOR FIBER CEMENT TRIM BOARDS | JAMES HARDIE | HARDIETRIM 4/4 SMOOTH | PAINTED SW7048 URBANE BRONZE | NICHIHA | NICHITRIM | SW7048 URBANE BRONZE | |
| 3 | EXTERIOR FIBER CEMENT PANELS | JAMES HARDIE | REVEAL PANEL SYSTEM | PAINTED SW7048 URBANE BRONZE | NICHIHA | ILLUMINATION | SW7048 URBANE BRONZE | HARDIE: LEVI STAUFFER 562-243-8974 LEVI.STAUFFER@JAMESHARDIE.COM |
| 4 | EXTERIOR FIBER CEMENT PANELS - ENTRY | JAMES HARDIE | REVEAL PANEL SYSTEM | PAINTED SW7048 URBANE BRONZE | NICHIHA | ILLUMINATION | SW7048 URBANE BRONZE | |
| 5 | STOREFRONT WINDOWS | OLD CASTLE | SERIES 3000 - CENTER SET | DK BRONZE | - | - | - | |
| 6 | STOREFRONT DOORS | OLD CASTLE | SERIES 500 - WIDE STYLE | DK BRONZE | - | - | - | |
| 7 | METAL CANOPIES | BY SIGNAGE VENDOR | - | DARK BRONZE TO MATCH STOREFRONT | - | RAL | RAL | <u>BY SIGN VENDOR</u> |
| 8 | TOWER & ENTRANCE | CORTEN | STEEL FLAT SHEETS | STANDARD | - | - | - | |
| 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 | - | - | - | MATERIALS SOURCED LOCALLY BY GC - MIN. 3/4" THICK X 8" WIDE PLANKS. ASSORTED/RANDOM LENGTHS. COLOR RANGE - WHITE - DK GRAY |

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

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

| | | |
|---|----------|-------------------|
| 2 | 06/14/18 | BULLETIN 2 |
| | 05/31/18 | IFC |
| A | 04/20/18 | BUILDING COMMENTS |
| | 02/19/18 | ISSUED FOR PERMIT |

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40-MO
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

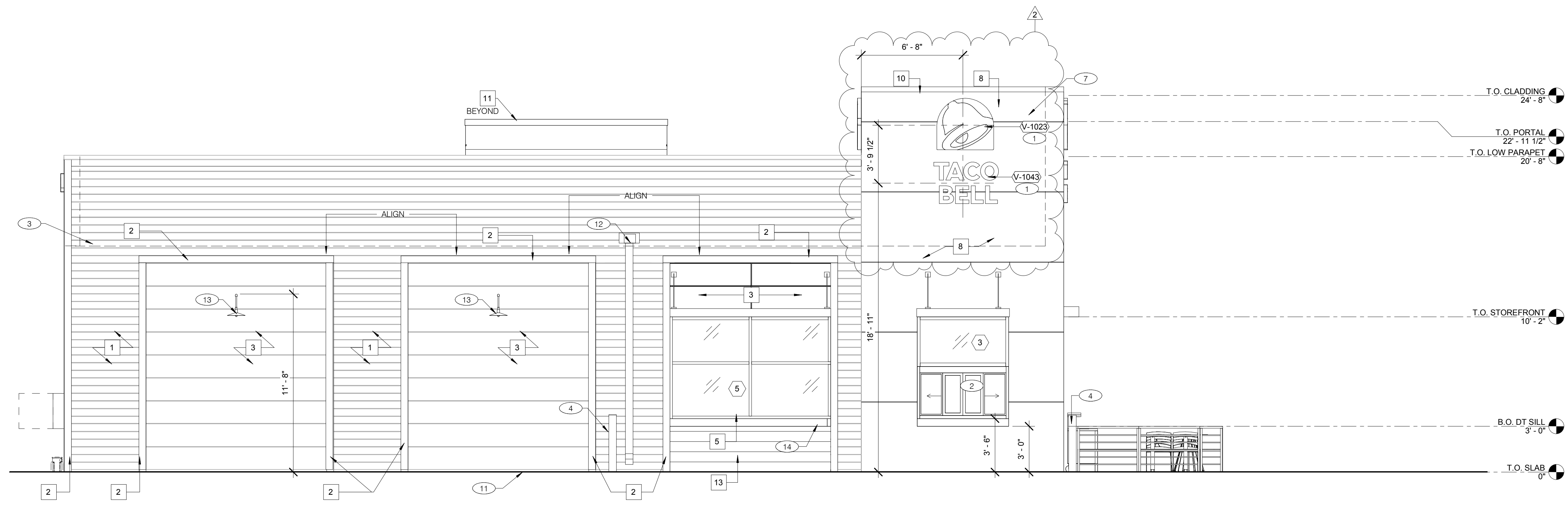
TACO BELL
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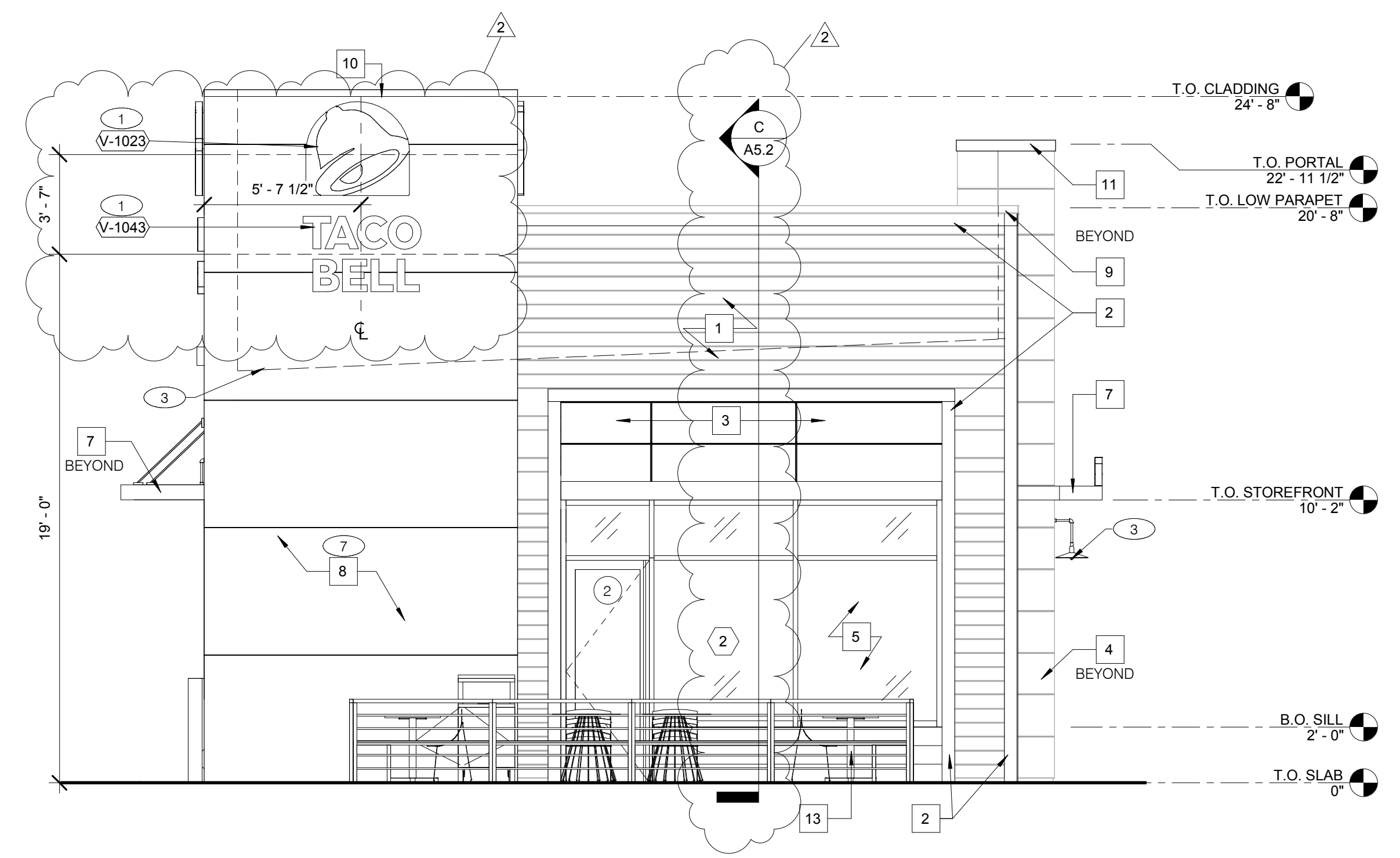
T40
OPEN KITCHEN
MODERN EXPLORER

EXTERIOR ELEVATIONS

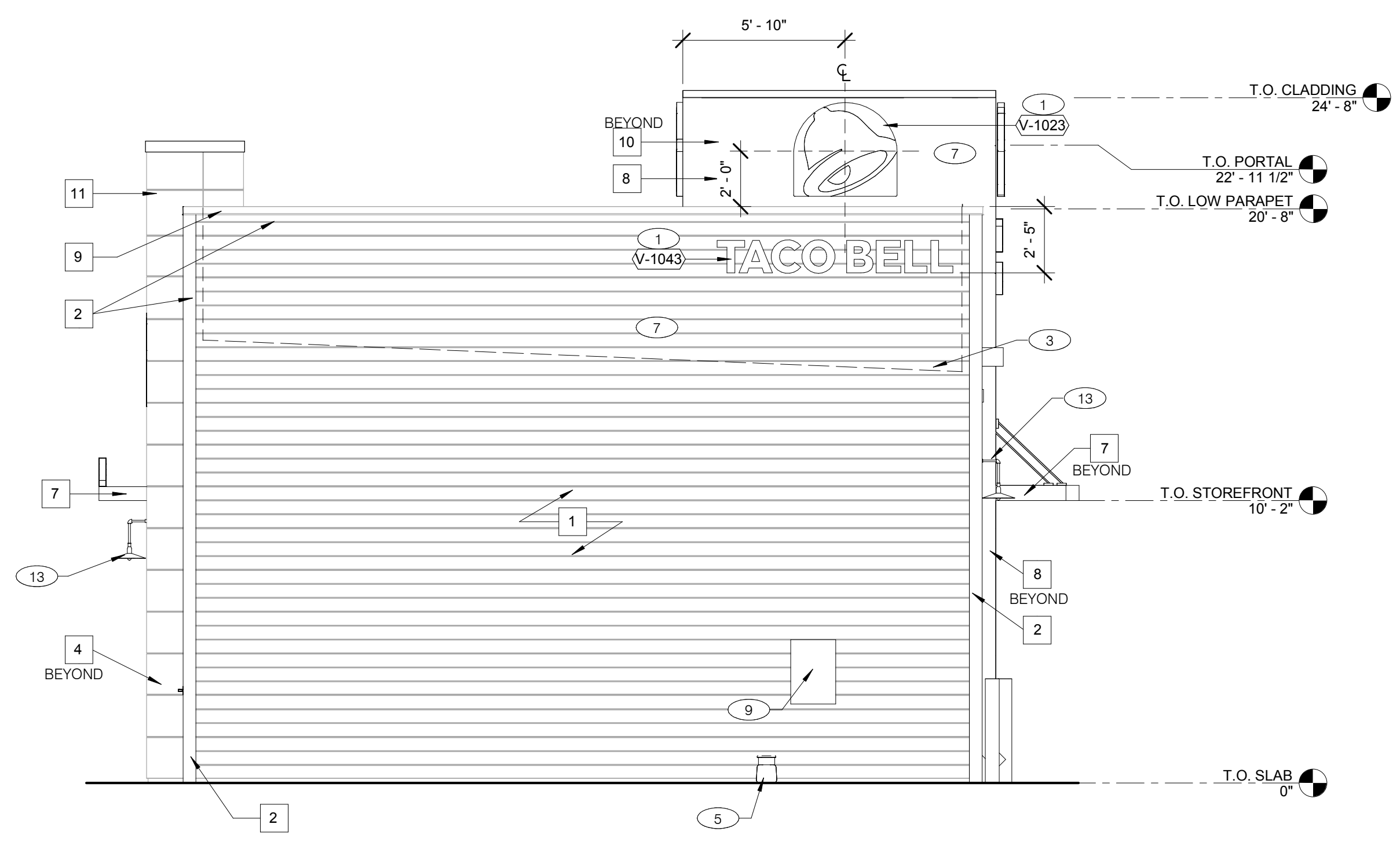
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NORTH ELEVATION 1/4" = 1'-0" **A**



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



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

| | | |
|---|----------|-------------------|
| 2 | 06/14/18 | BULLETIN 2 |
| | 05/31/18 | IFC |
| A | 04/20/18 | BUILDING COMMENTS |
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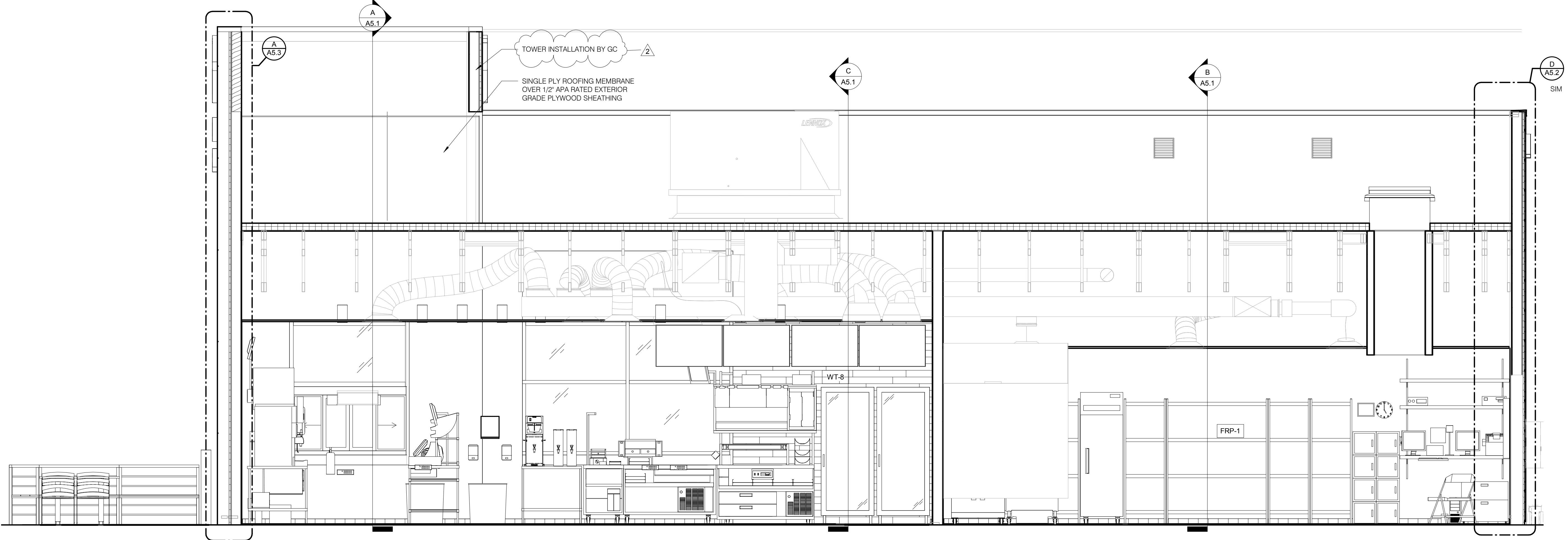
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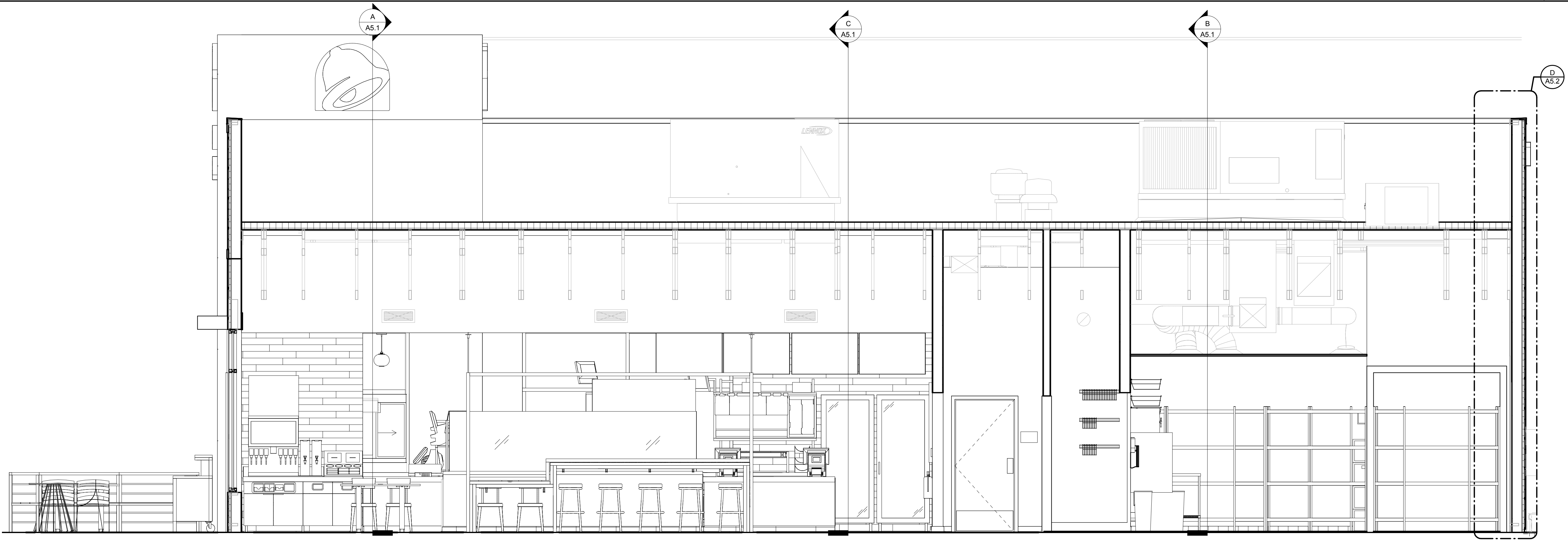
T40
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MODERN EXPLORER

EXTERIOR ELEVATIONS

A4.1



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



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

| | | |
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| 2 | 06/14/18 | BULLETIN 2 |
| | 05/31/18 | IFC |
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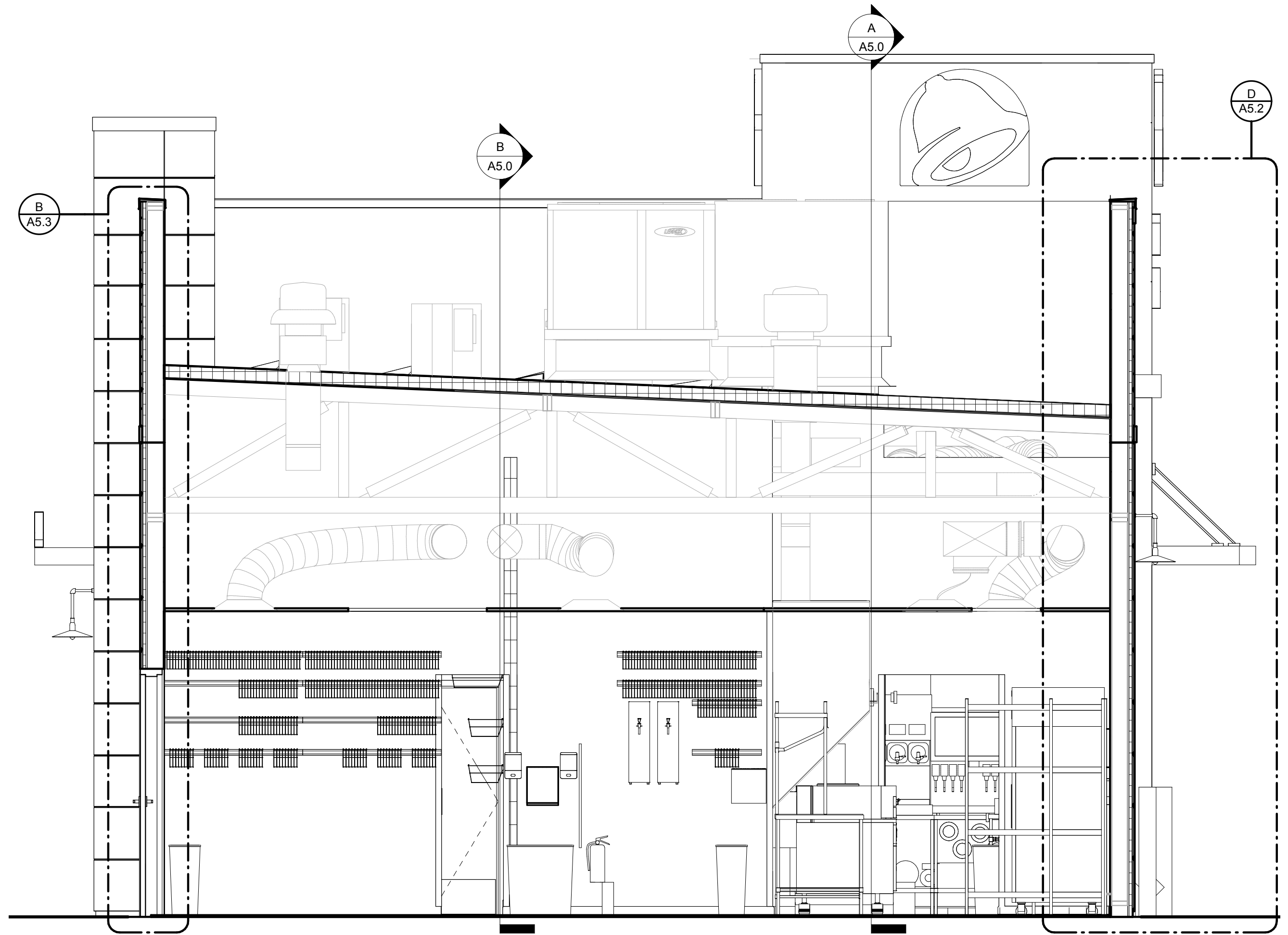
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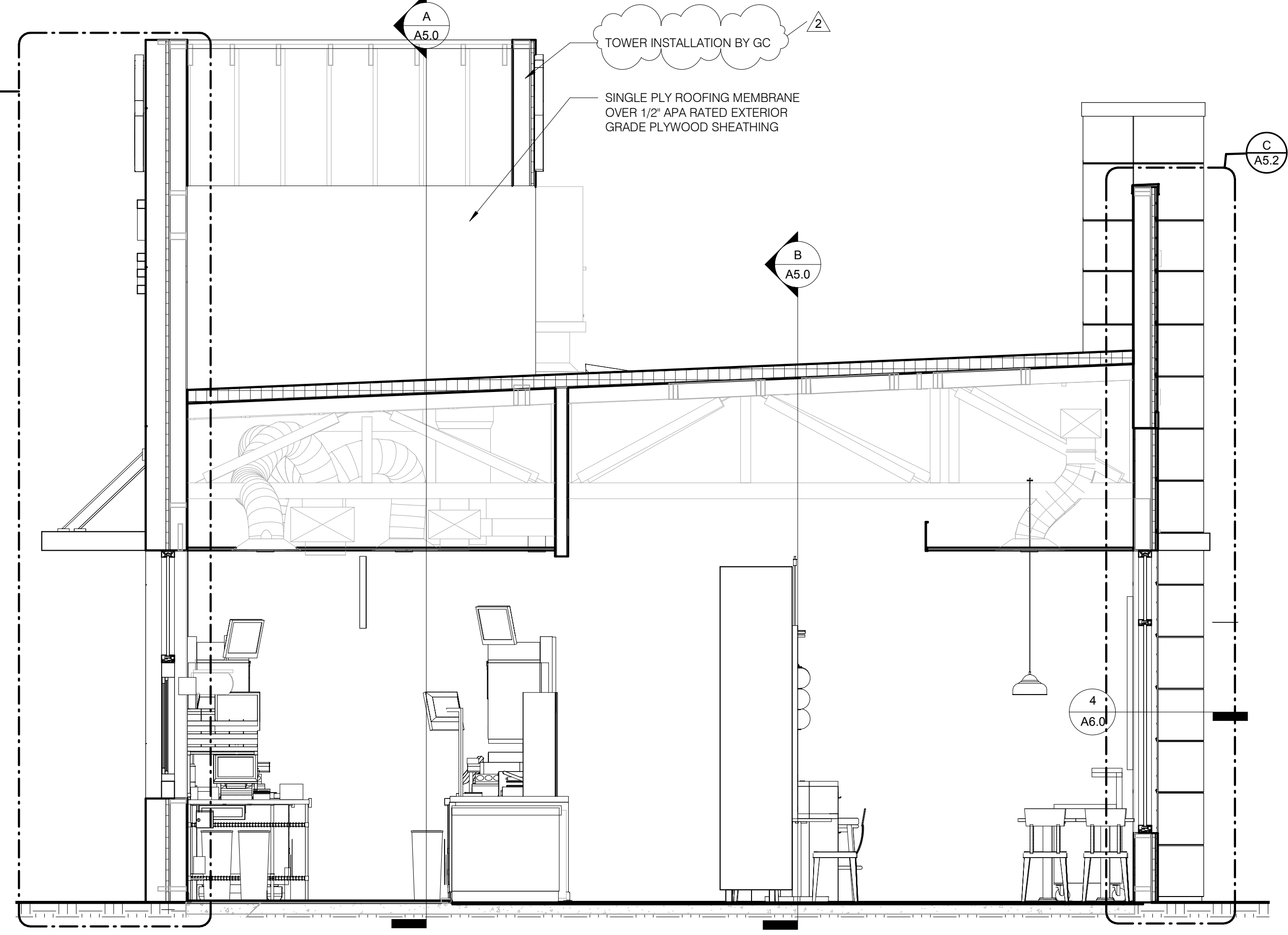


BUILDING SECTIONS

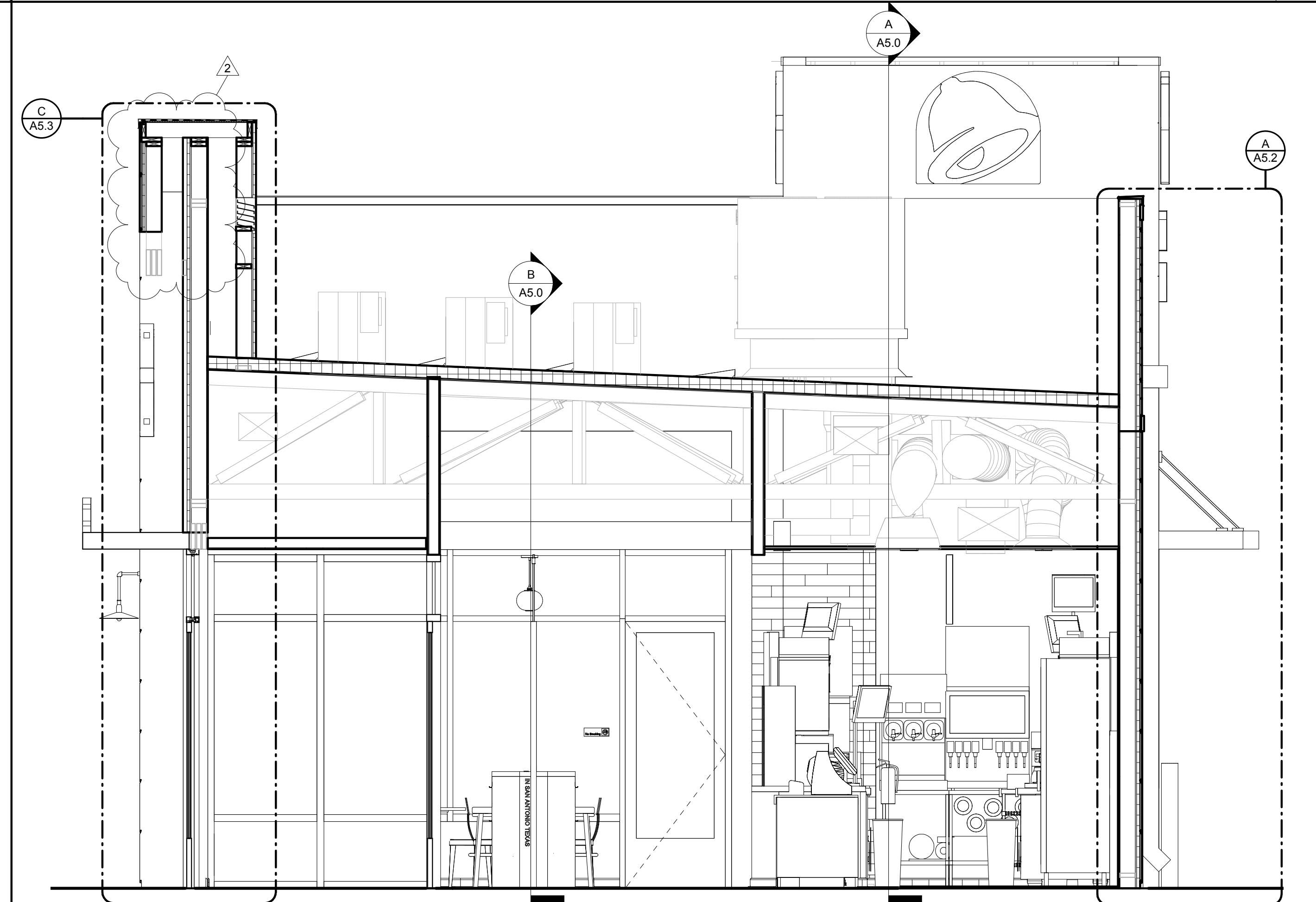
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NORTH/SOUTH BUILDING SECTION 3 3/8" = 1'-0" **B**



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



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

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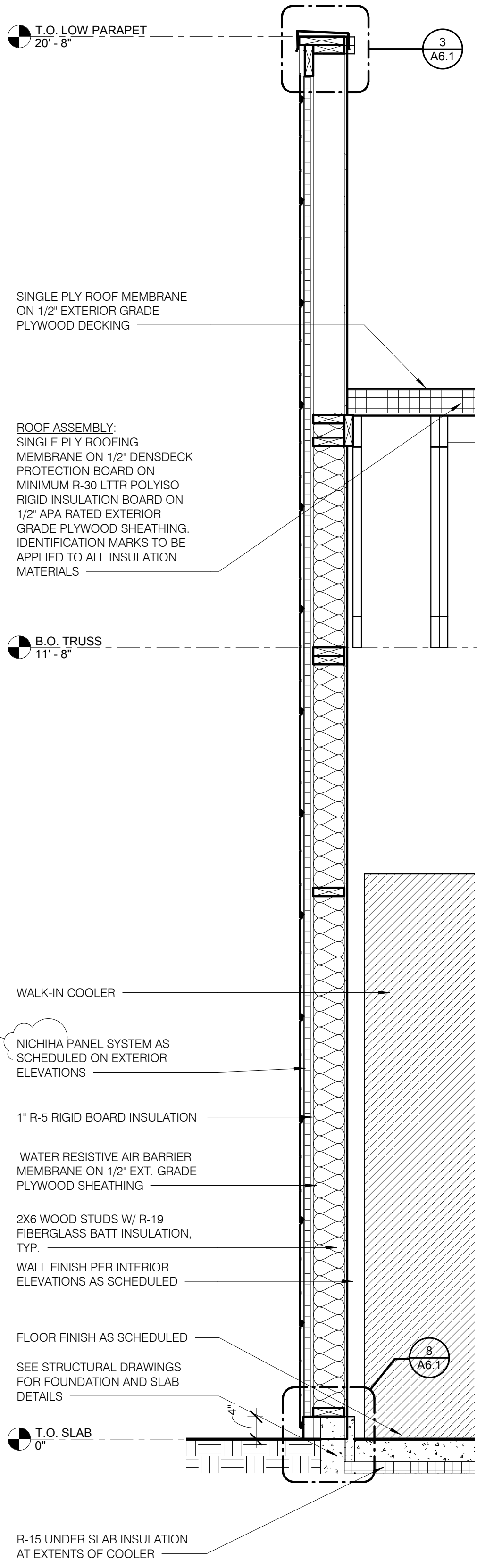
CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066

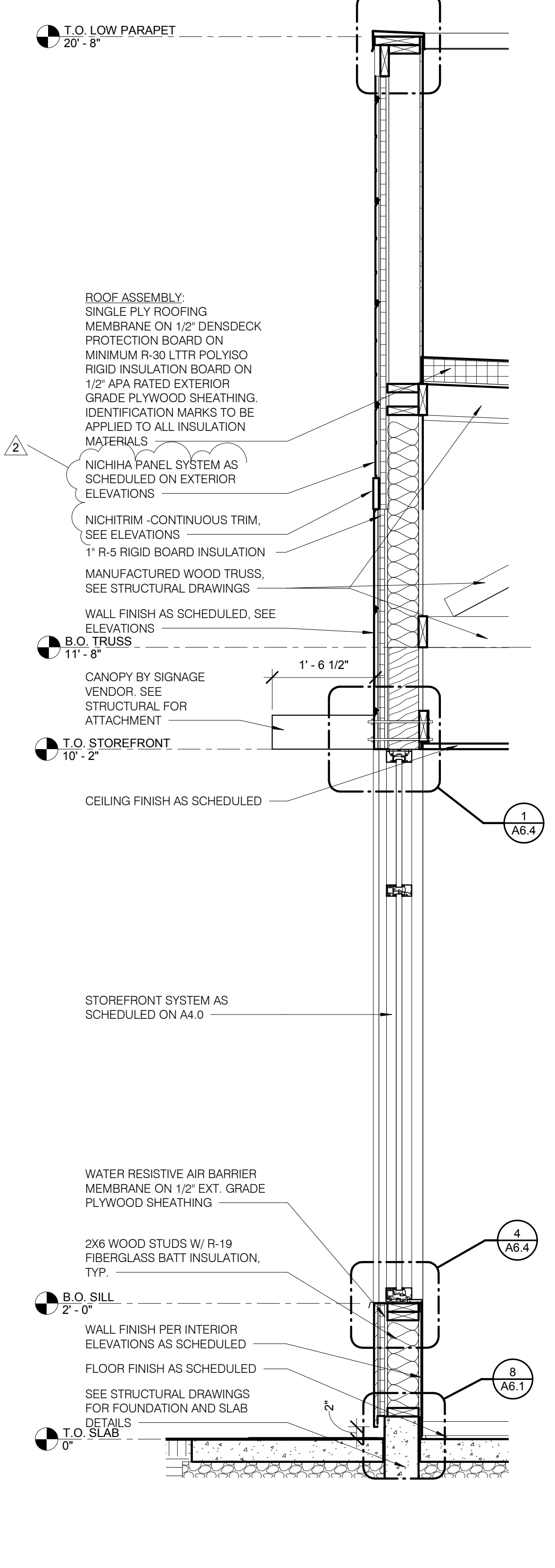
TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

BUILDING SECTIONS

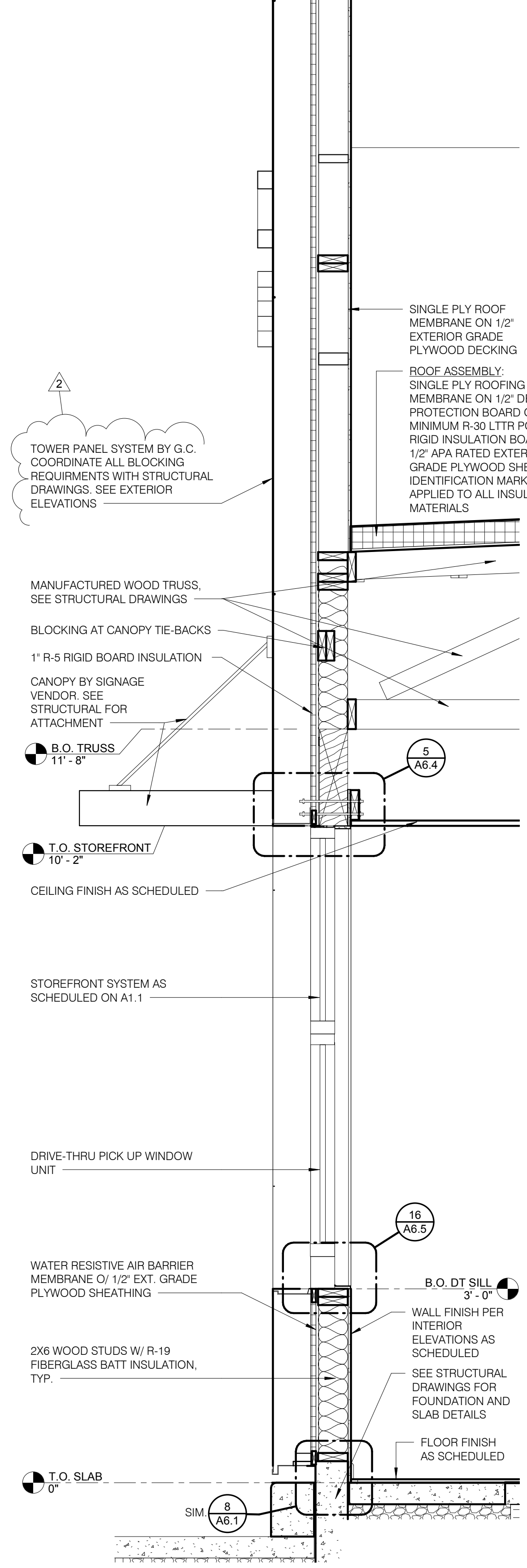
A5.1



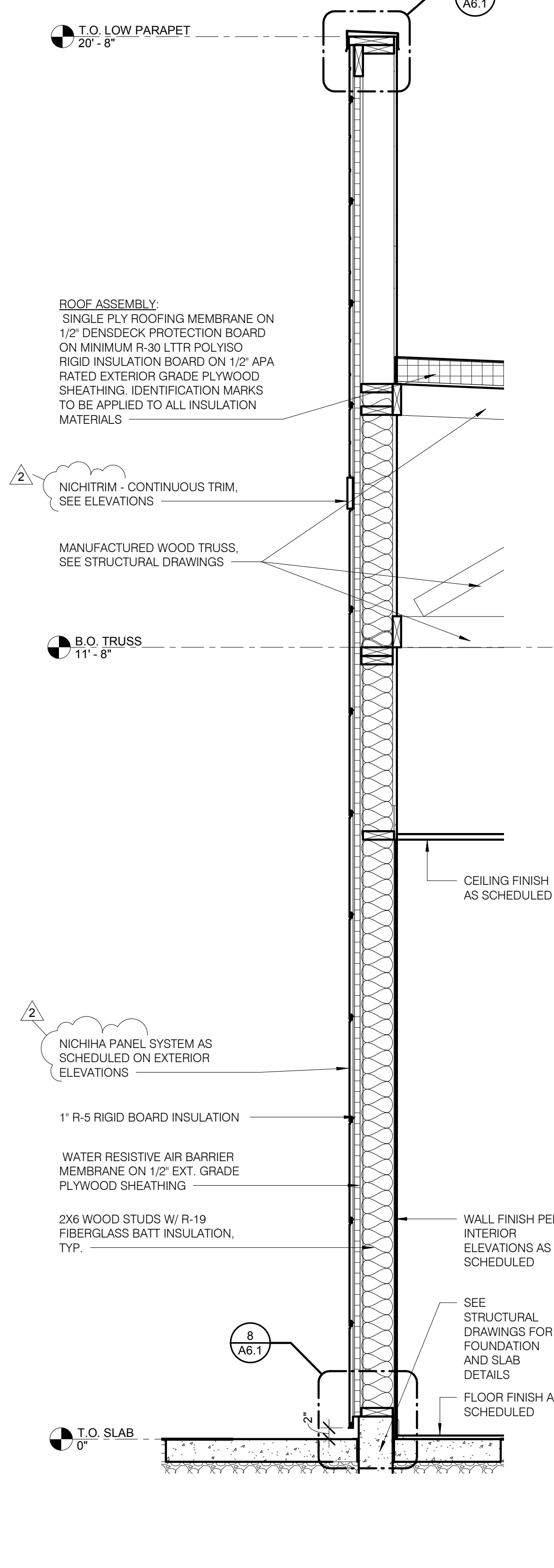
WALL SECTION AT COOLER WALL 3/4" = 1'-0" **D**



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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| 2 | 06/14/18 | BULLETIN 2 |
| | 05/31/18 | IFC |
| A | 04/20/18 | BUILDING COMMENTS |
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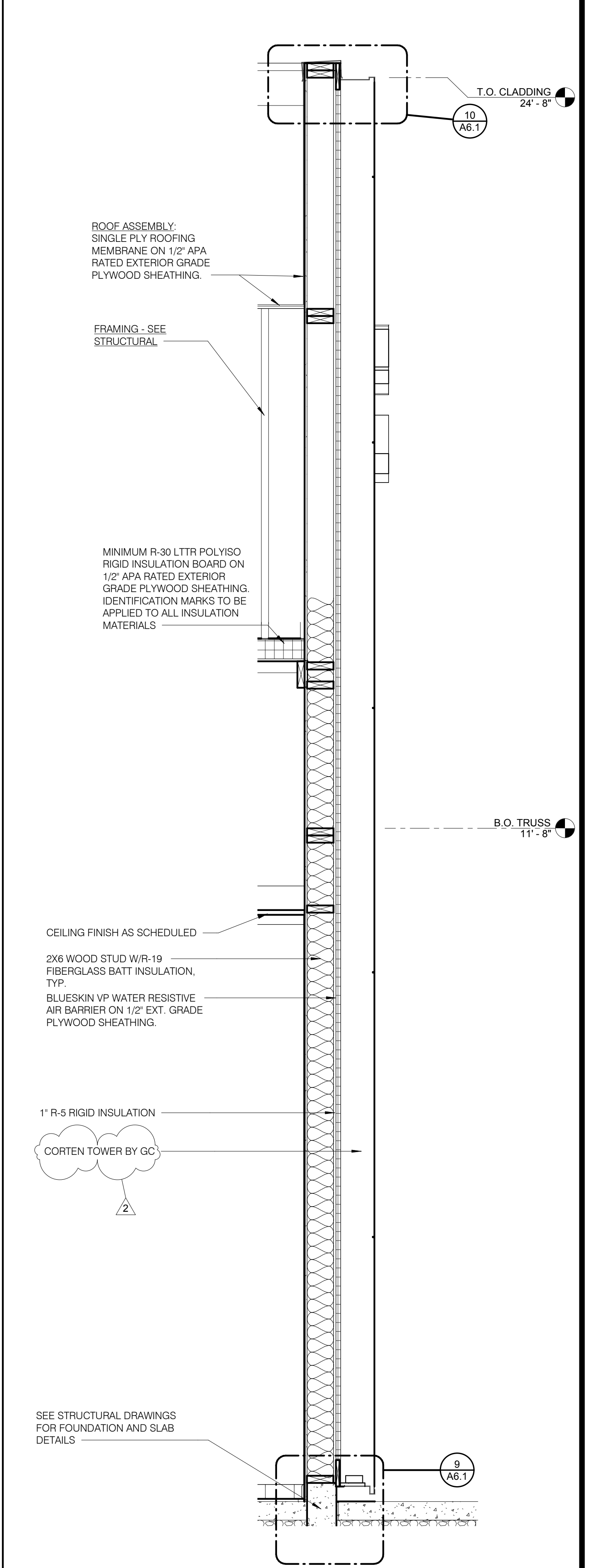
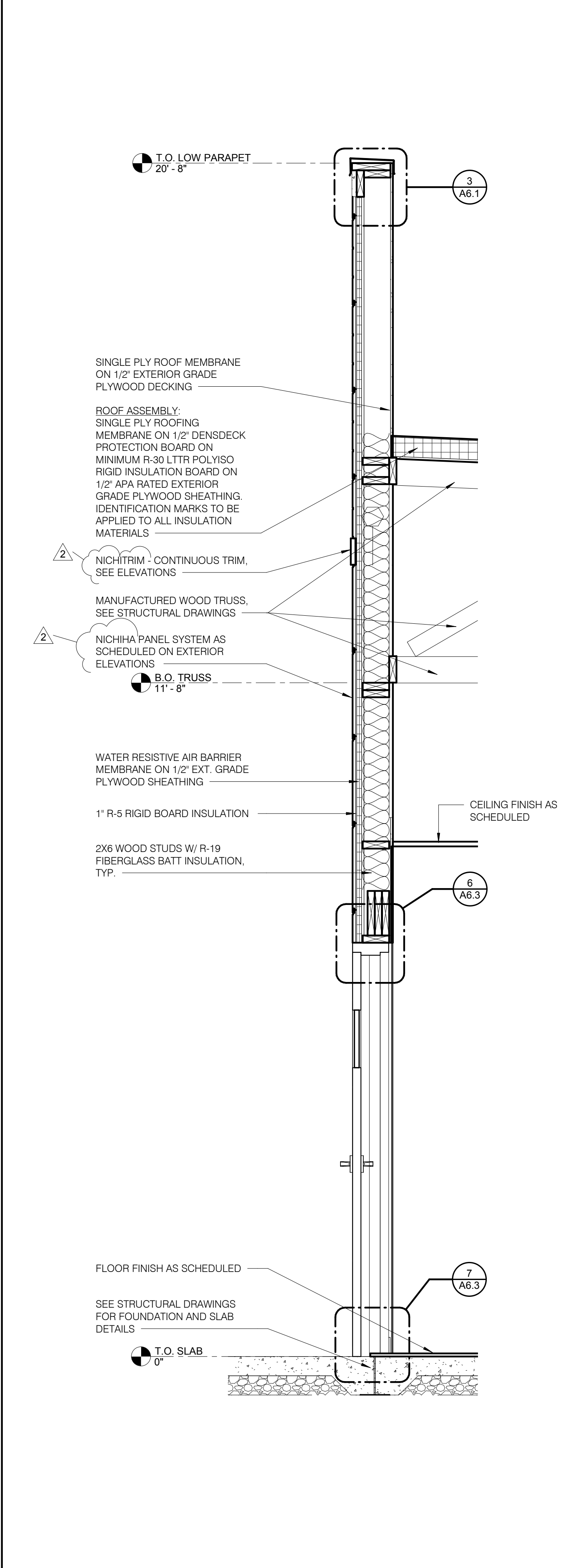
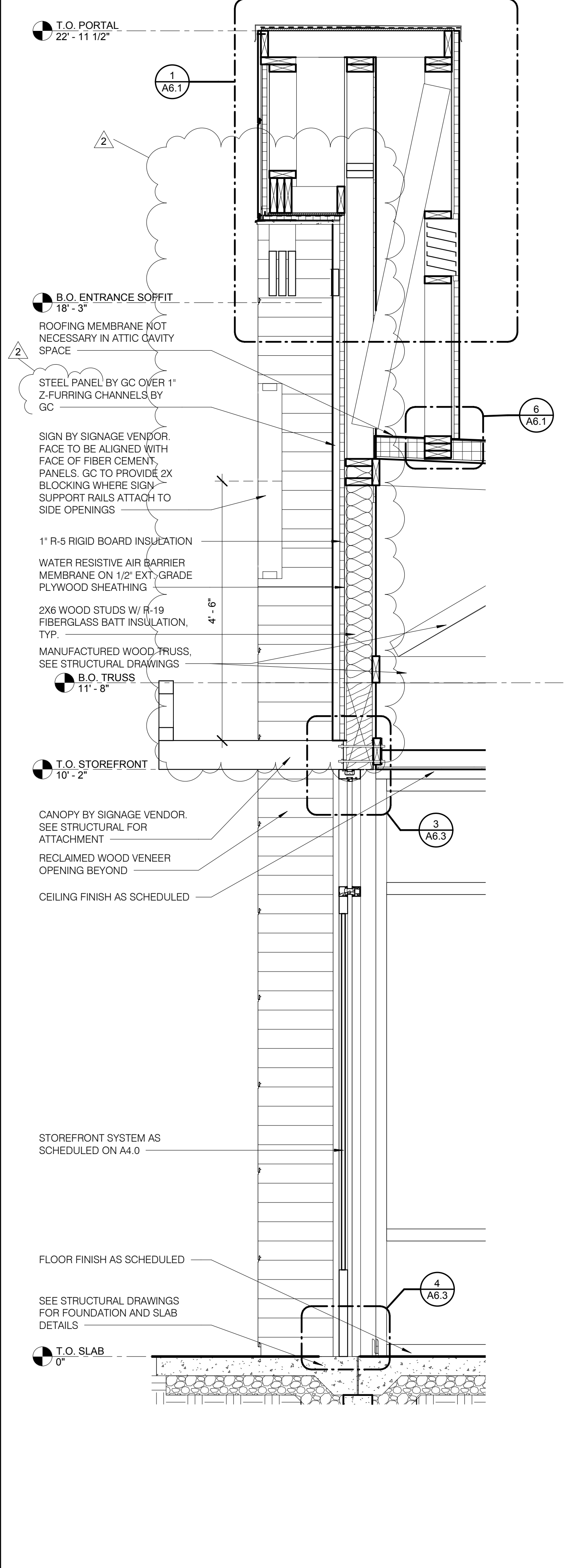
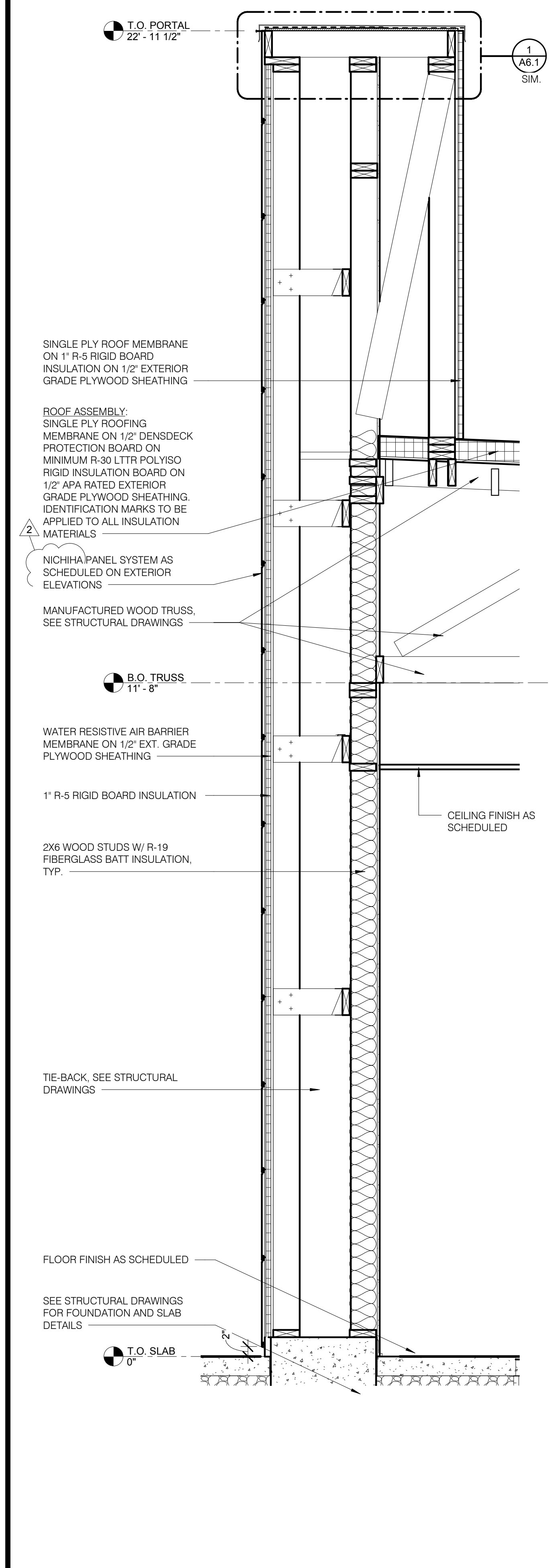
CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066

T40
OPEN KITCHEN
MODERN EXPLORER

WALL SECTIONS

A5.2



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| 2 | 06/14/18 | BULLETIN 2 |
| | 05/31/18 | IFC |
| A | 04/20/18 | BUILDING COMMENTS |
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CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312262/442877
 STORE NUMBER: 2016088.09

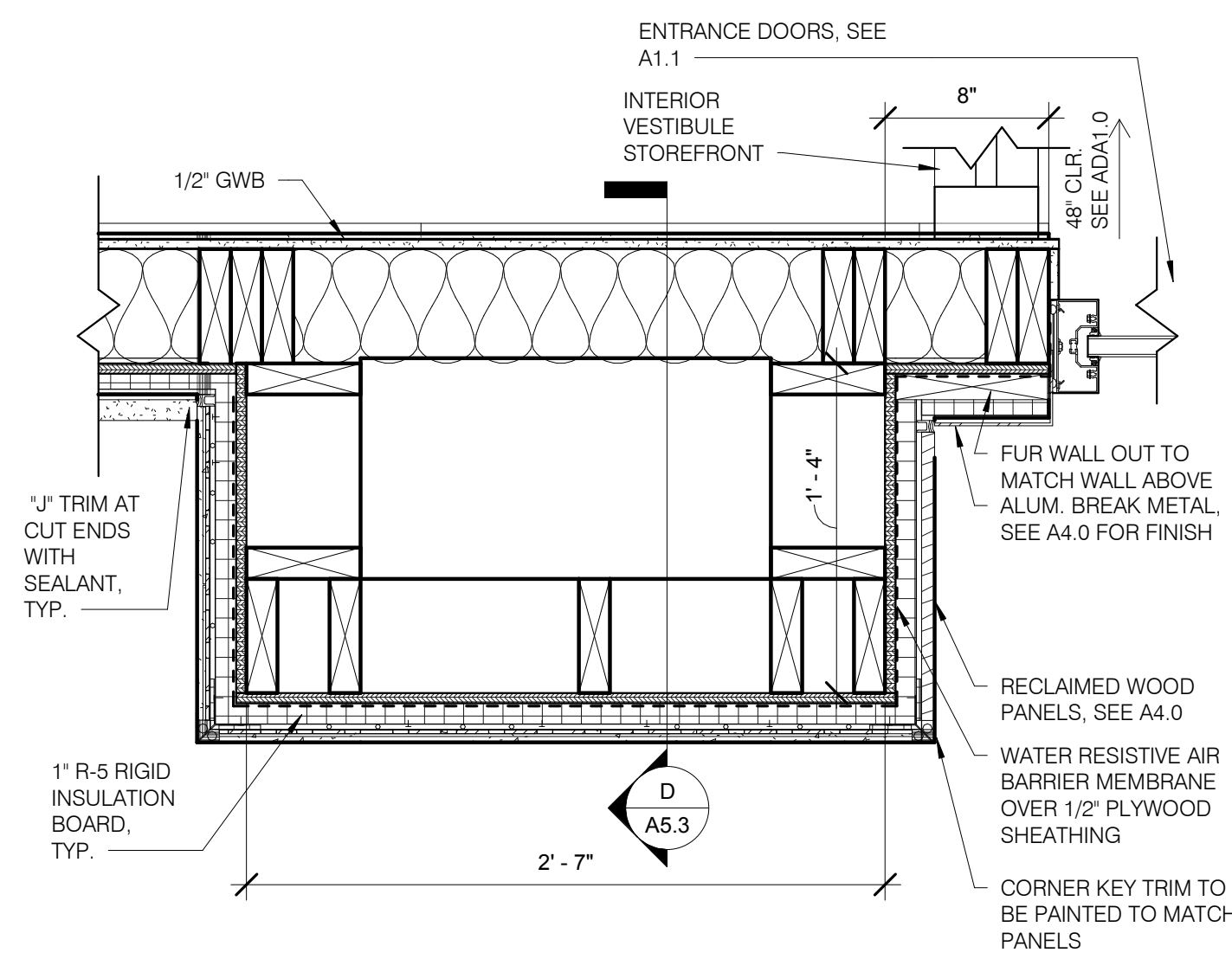
TACO BELL
 20779 E. 13 MILE RD.
 ROSEVILLE, MI 48066

TACO BELL
 T40
 OPEN KITCHEN
 MODERN EXPLORER

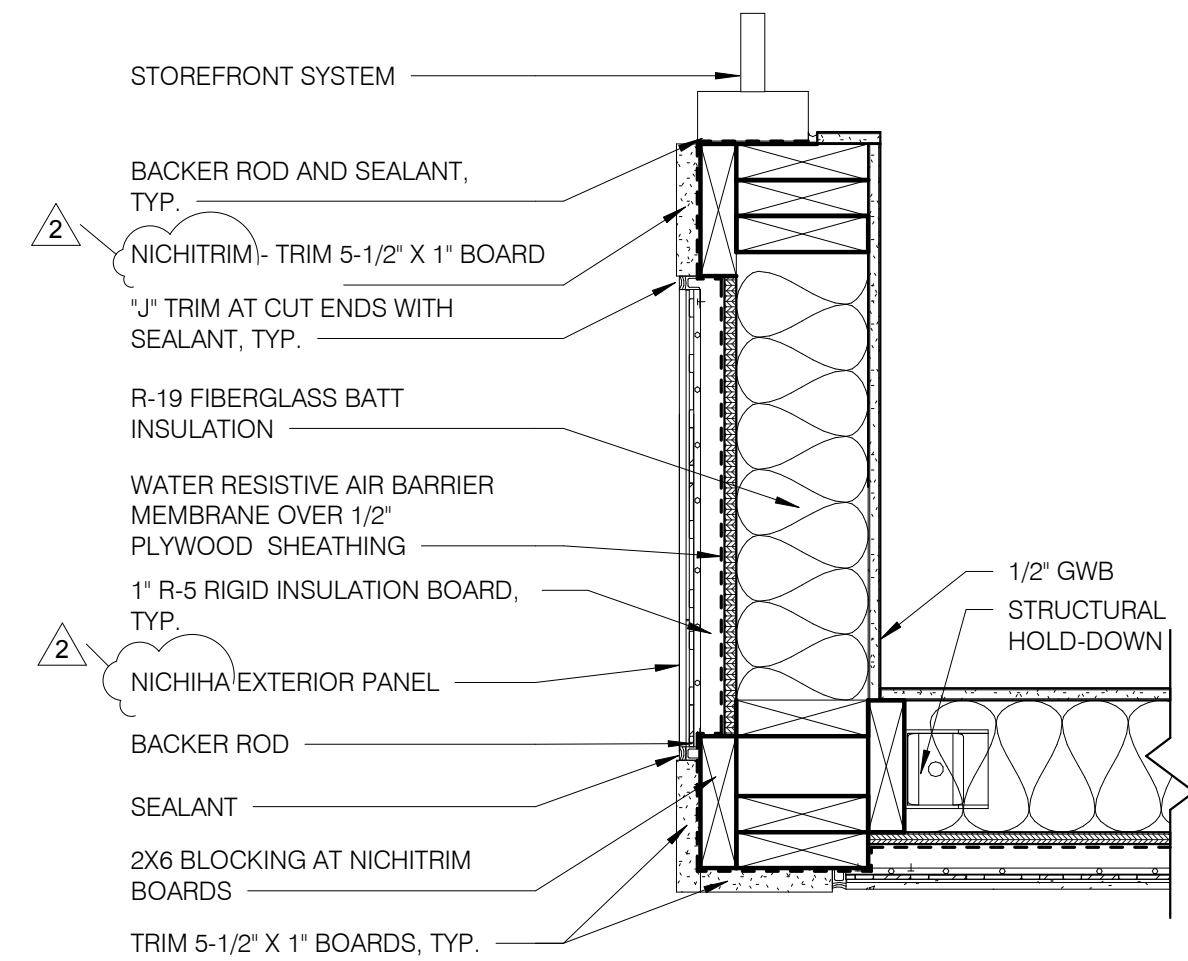
WALL SECTIONS

A5.3

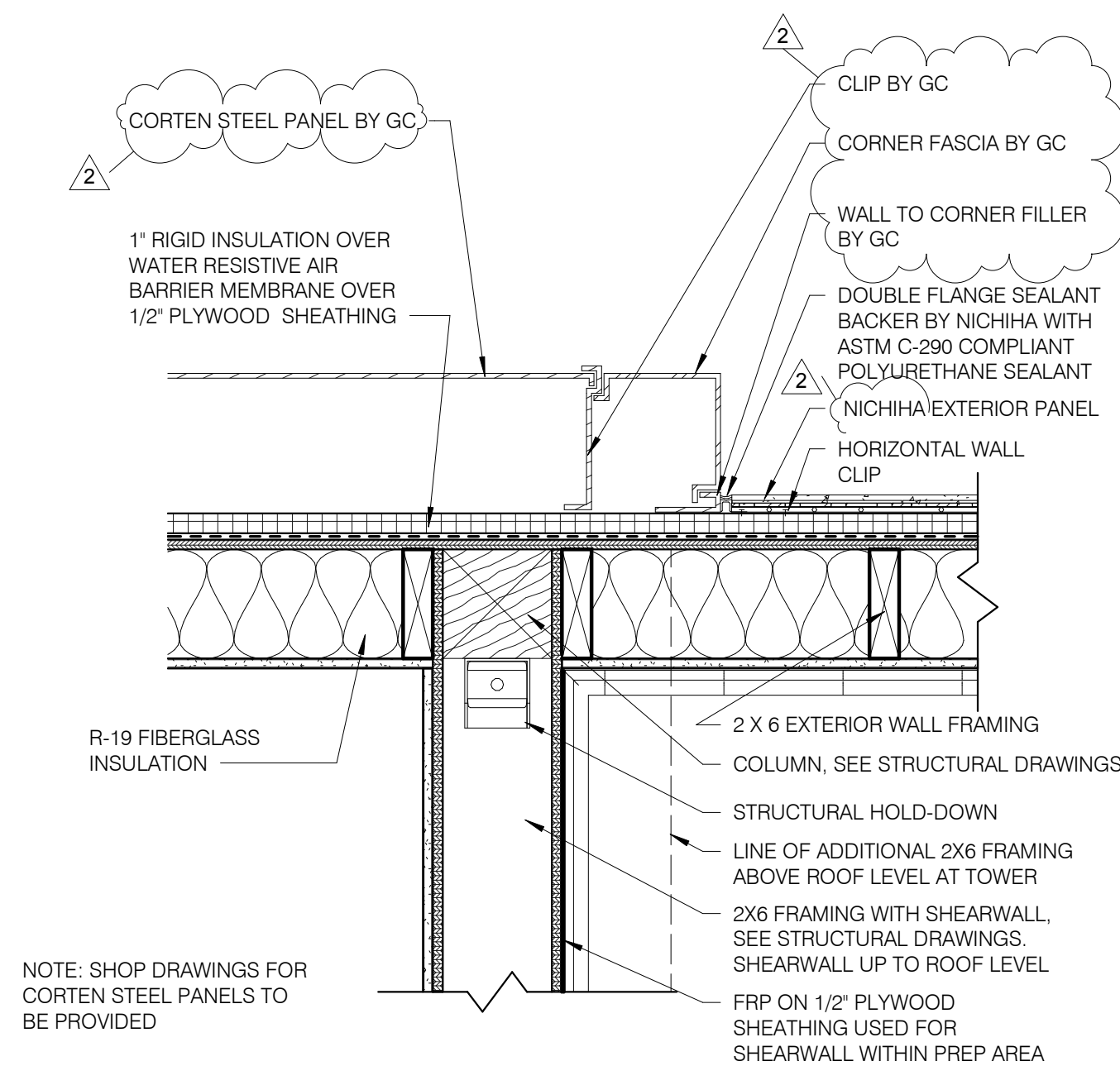
PLOT DATE: 6/18/2018 3:41:41 PM



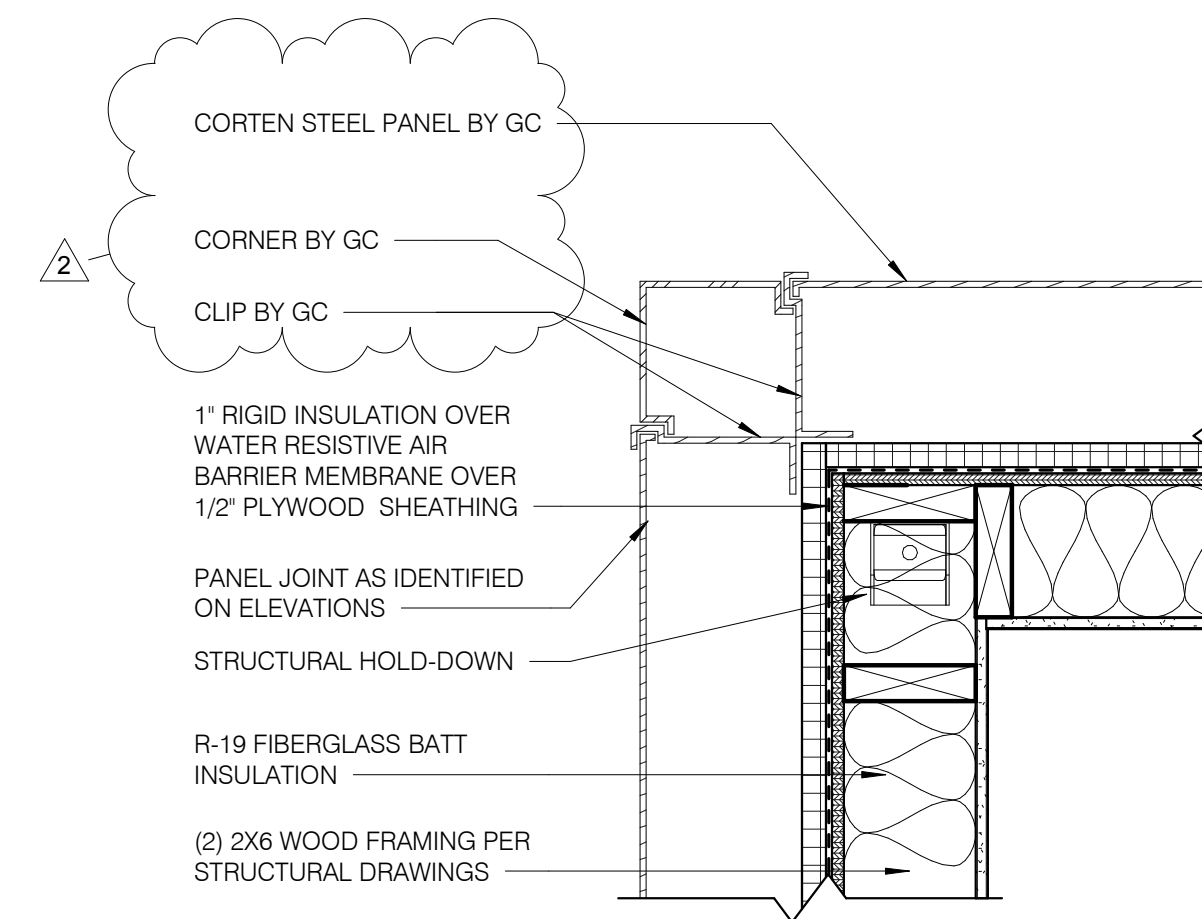
ENTRANCE PORTAL DETAIL 1 1/2' = 1'-0" **4**



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



DETAIL AT TOWER TRANSITION 1 1/2' = 1'-0" **2**



DETAIL AT CORNER TOWER 1 1/2' = 1'-0" **1**

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| 2 | 06/14/18 | BULLETIN 2 |
| | 05/31/18 | IFC |
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CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
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 BRAND DESIGNER:
 SITE NUMBER: 312262/442877
 STORE NUMBER: 2016088.09

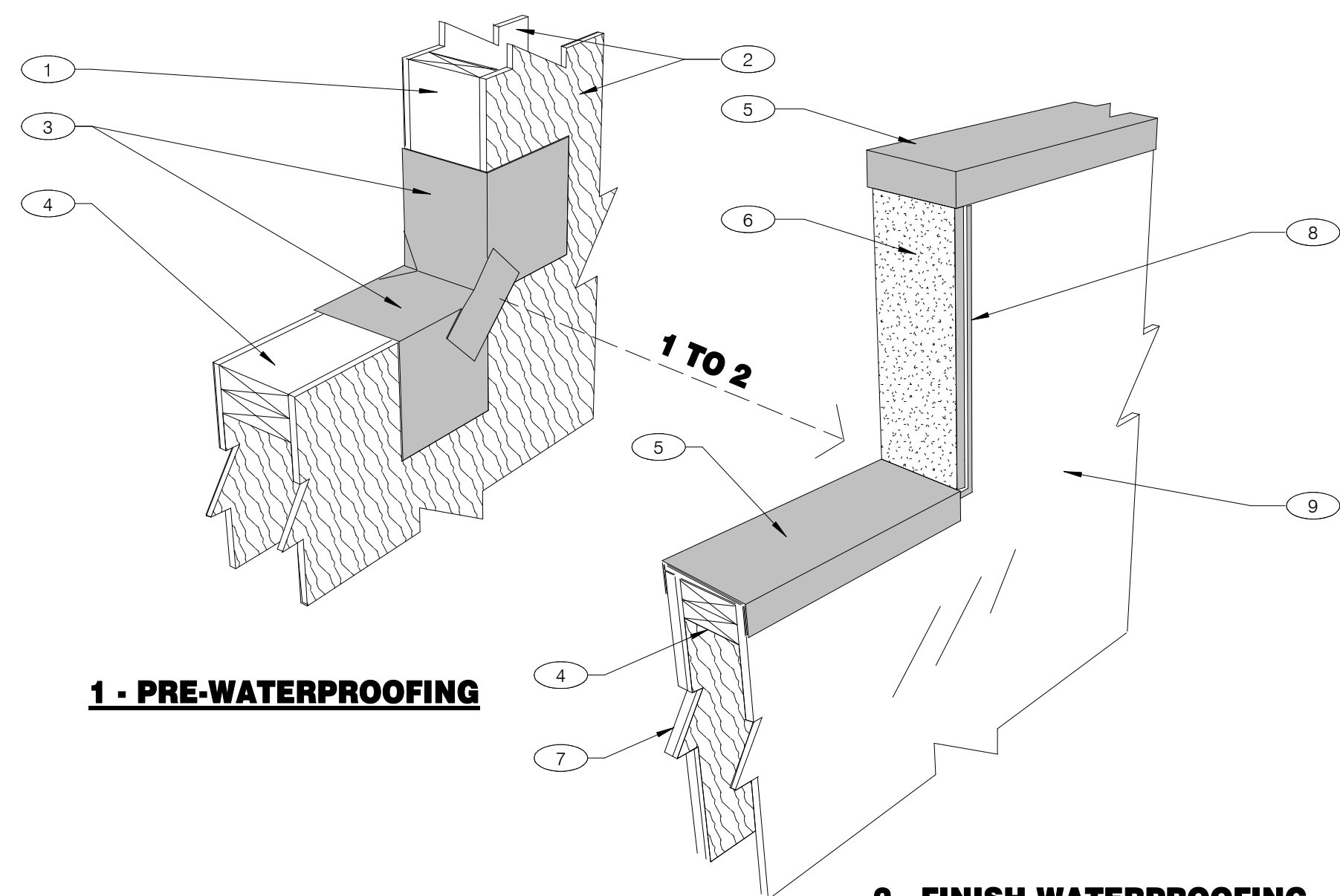
TACO BELL
 20779 E. 13 MILE RD.
 ROSEVILLE, MI 48066



T40
 OPEN KITCHEN
 MODERN EXPLORER

**CONSTRUCTION
 PLAN DETAILS**

A6.0

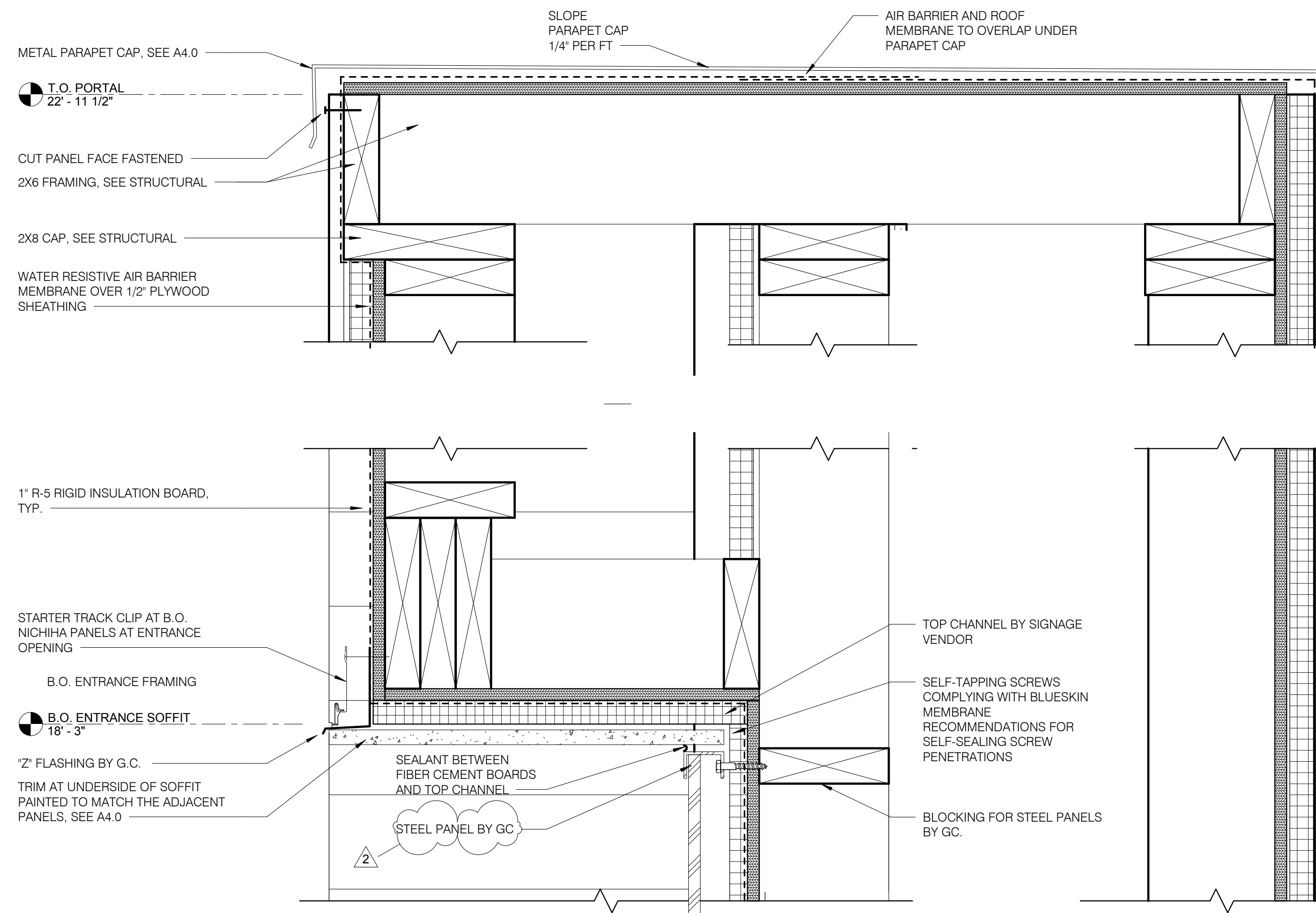


NOTES

- 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.

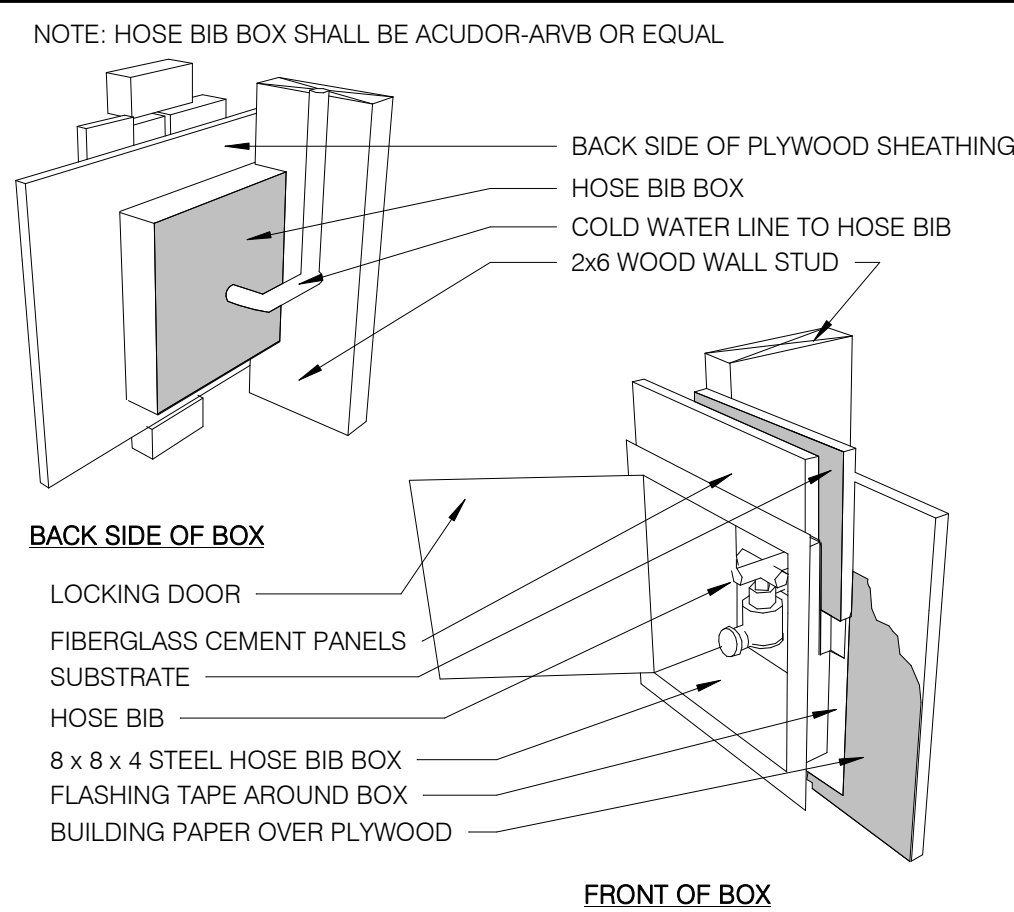
- 6 WRAP 1" THICK EIFS ONTO VERTICAL FACE OF PARAPET TRANSITION
- 7 EIFS FINISH ON OUTER SURFACE OF EXTERIOR WALL. THICKNESS PER THE EXTERIOR ELEVATIONS ON SHEET A4.0
- 8 TERMINATION BAR AT VERTICAL TRANSITION OF EIFS AND MEMBRANE ROOFING. SEAL VERTICAL GAP BETWEEN TERMINATION BAR AND EIFS PER ROOFING 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.

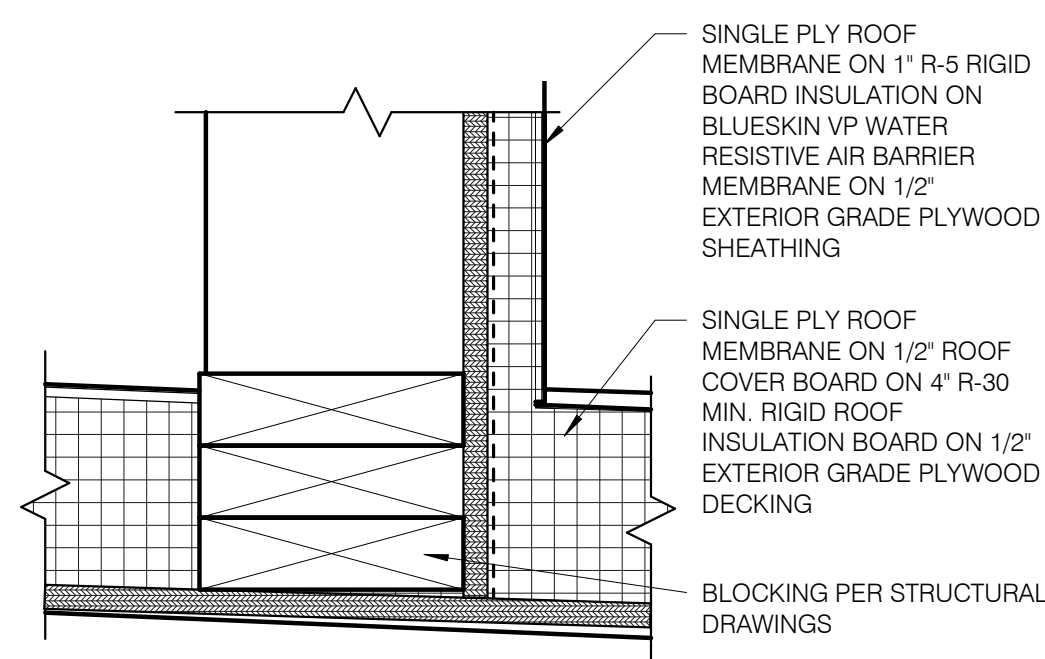


PARAPET CAP & TRANSITION N.T.S. **2**

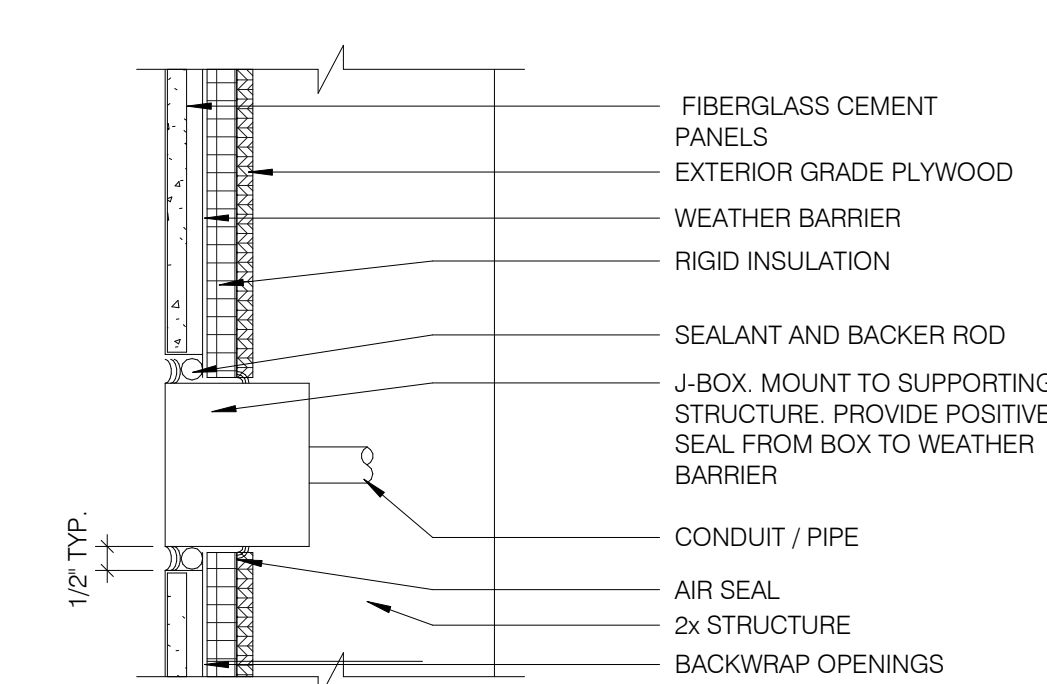
ENTRANCE PORTAL HEAD DETAIL 3" = 1'-0" **1**



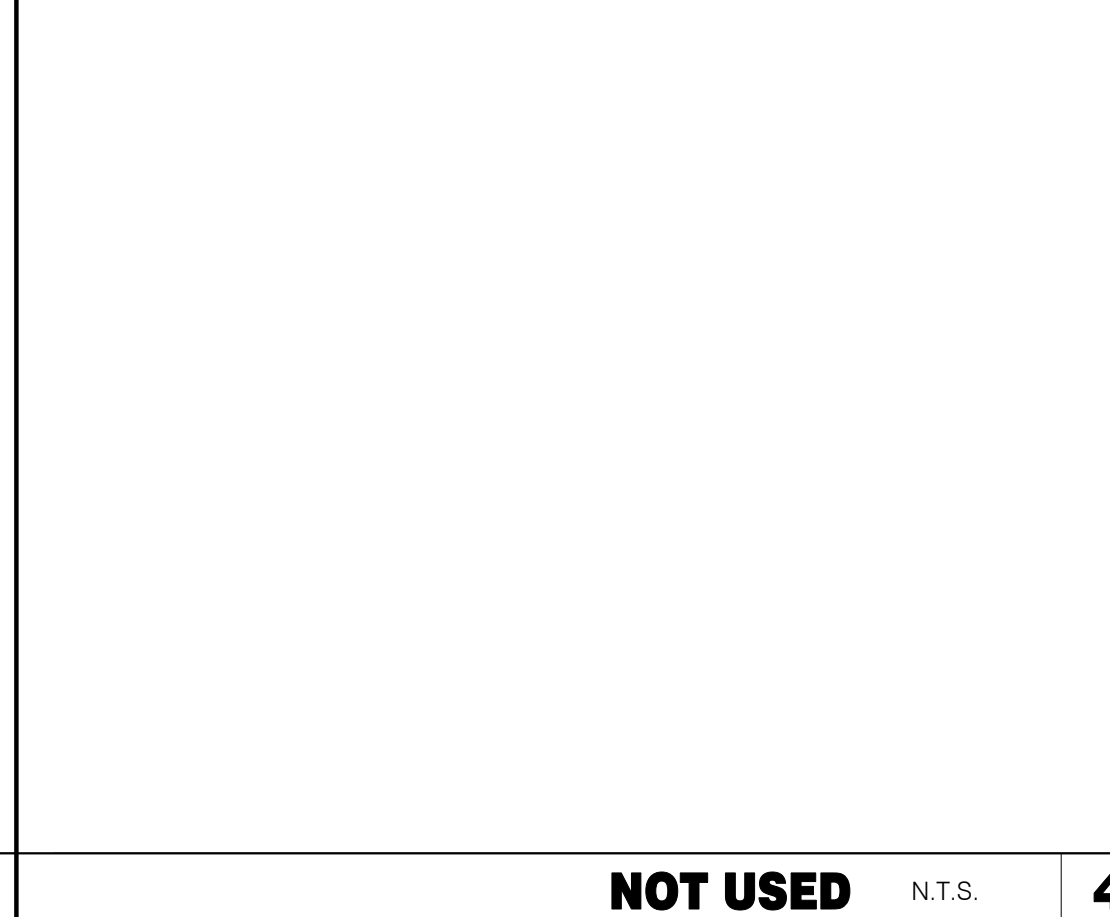
HOSE BIB BOX N.T.S. **7**



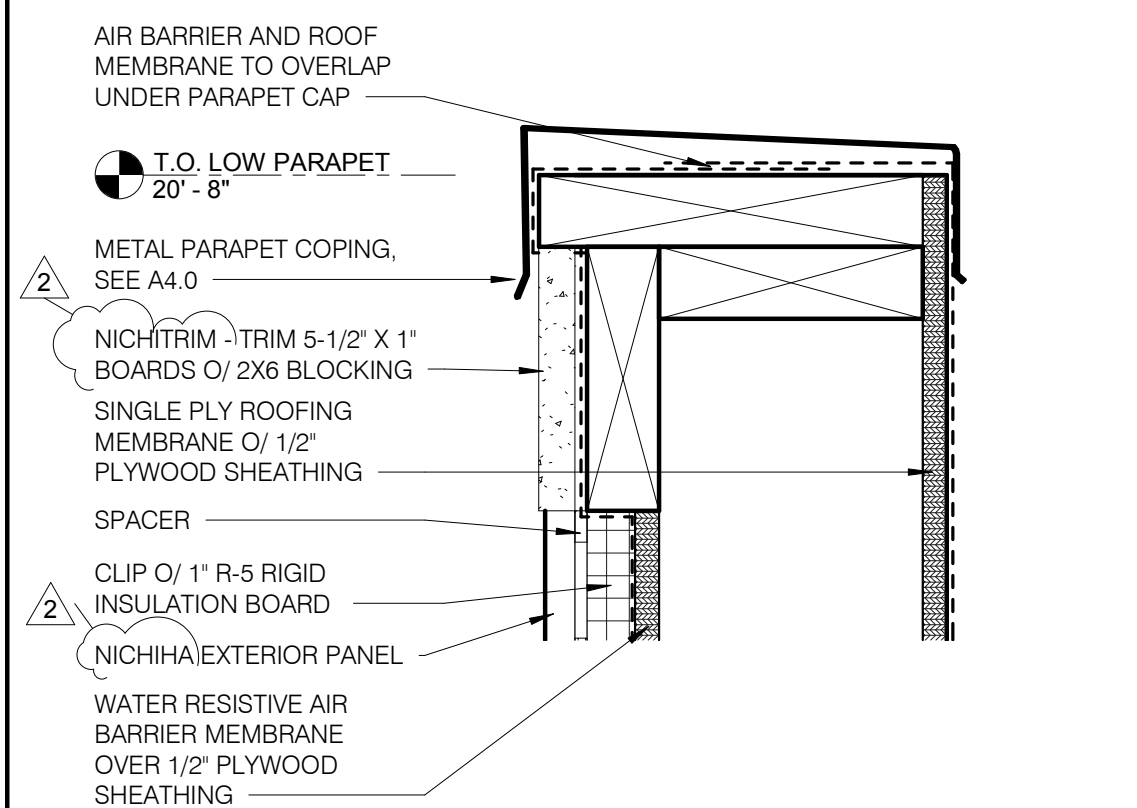
ENTRANCE PORTAL ROOF 3" = 1'-0" **6**



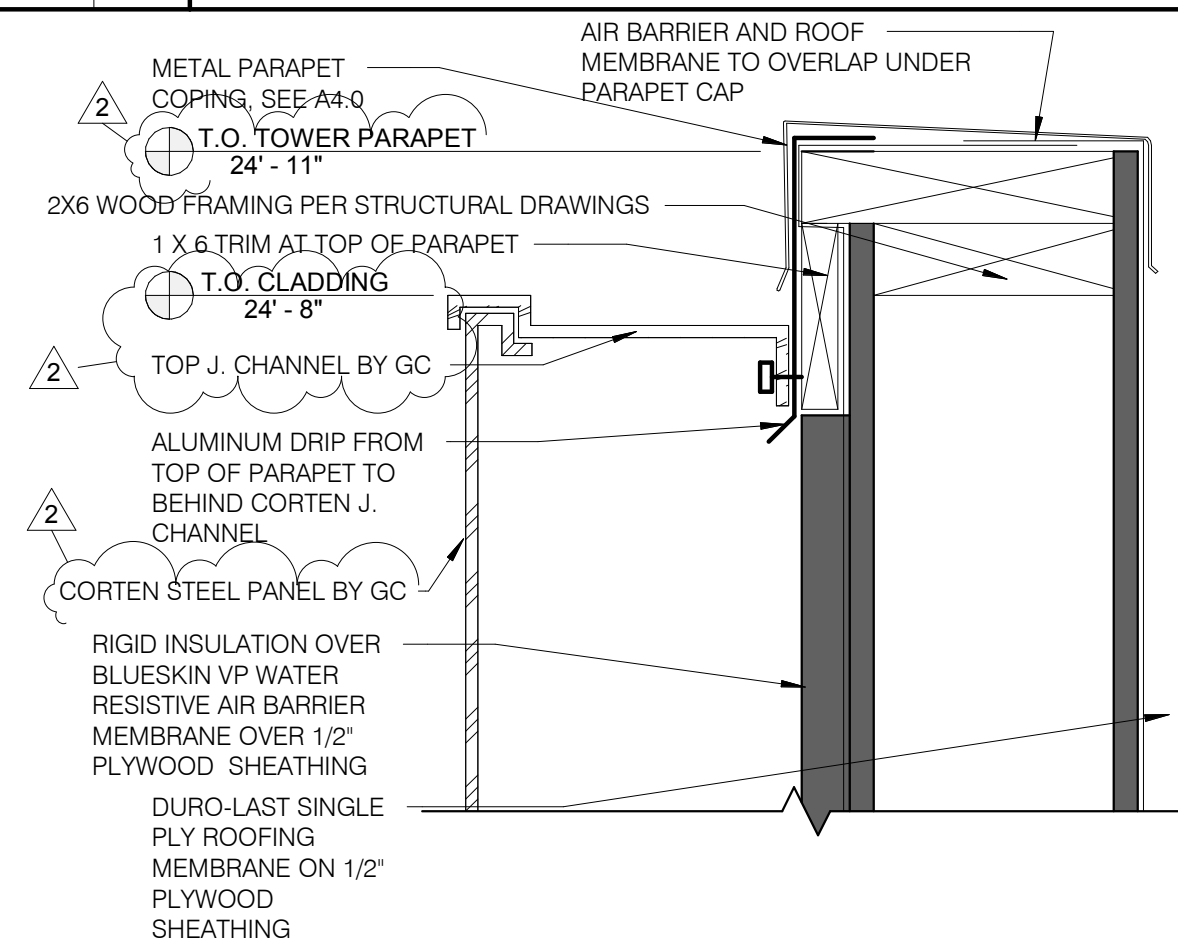
CO2 FILL / J-BOX N.T.S. **5**



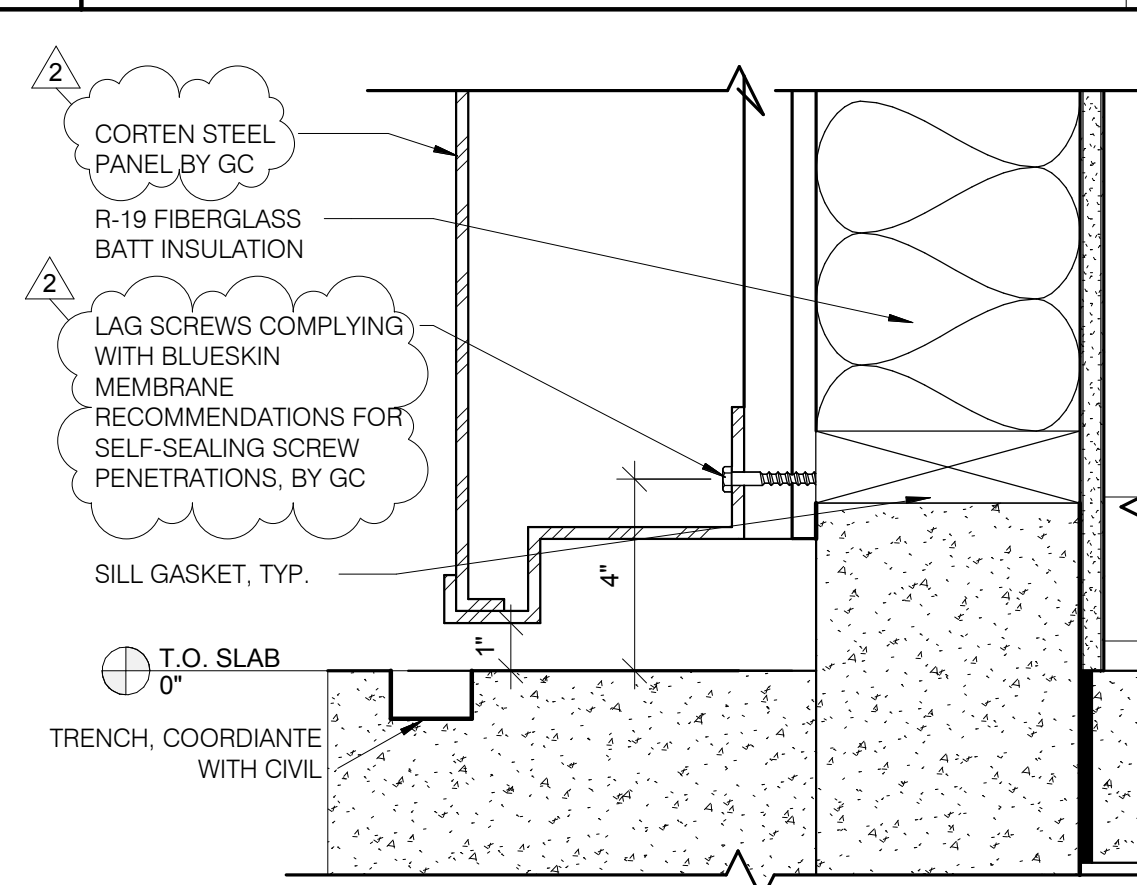
NOT USED N.T.S. **4**



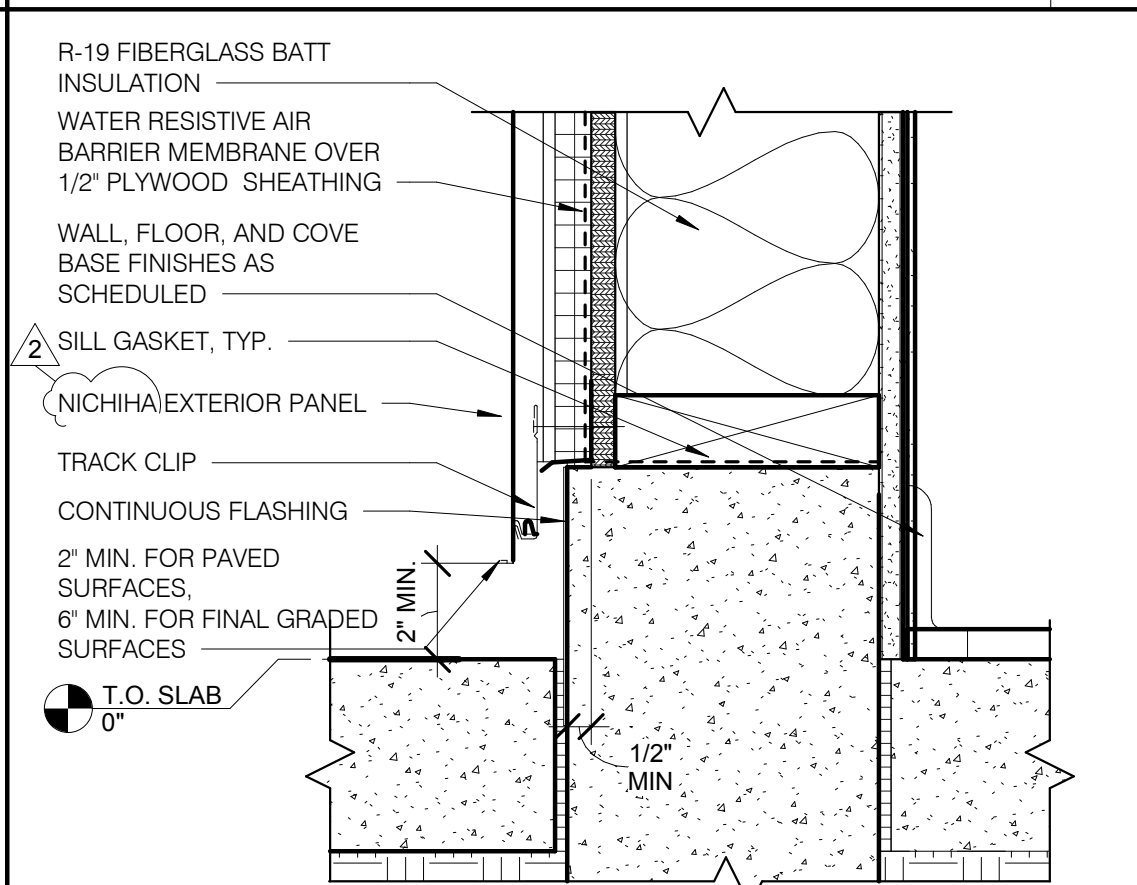
HEAD AT NICHIIHA SIDING 3" = 1'-0" **3**



HEAD AT TOWER DETAIL 3" = 1'-0" **10**



BASE @ TOWER DETAIL 3" = 1'-0" **9**



BASE AT NICHIIHA SIDING 3" = 1'-0" **8**

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| 06/14/18 | BULLETIN 2 |
| 05/31/18 | IFC |
| 02/19/18 | ISSUED FOR PERMIT |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

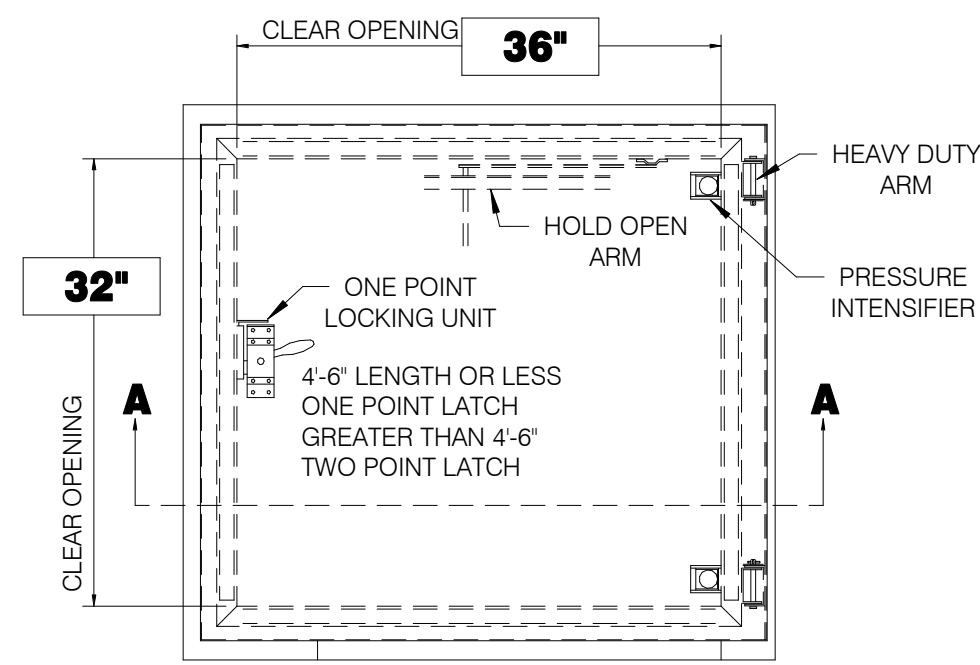
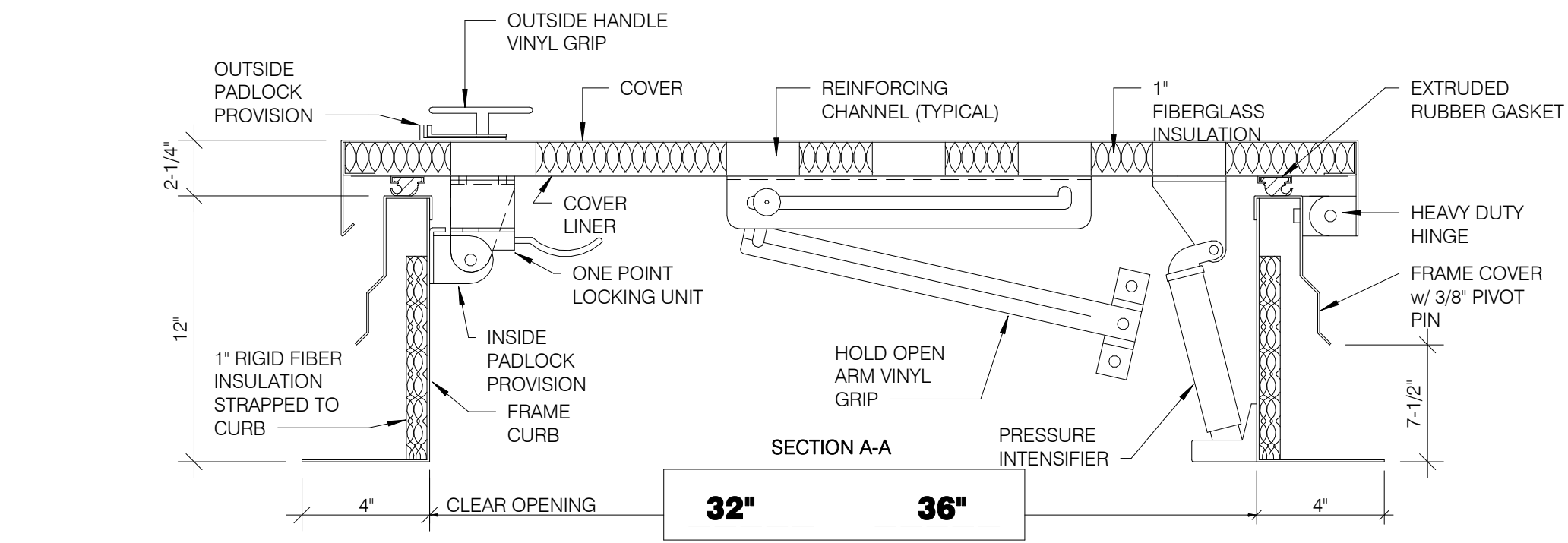
TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066



CONSTRUCTION DETAILS WALL

A6.1

PLOT DATE: 6/18/2018 3:41:43 PM



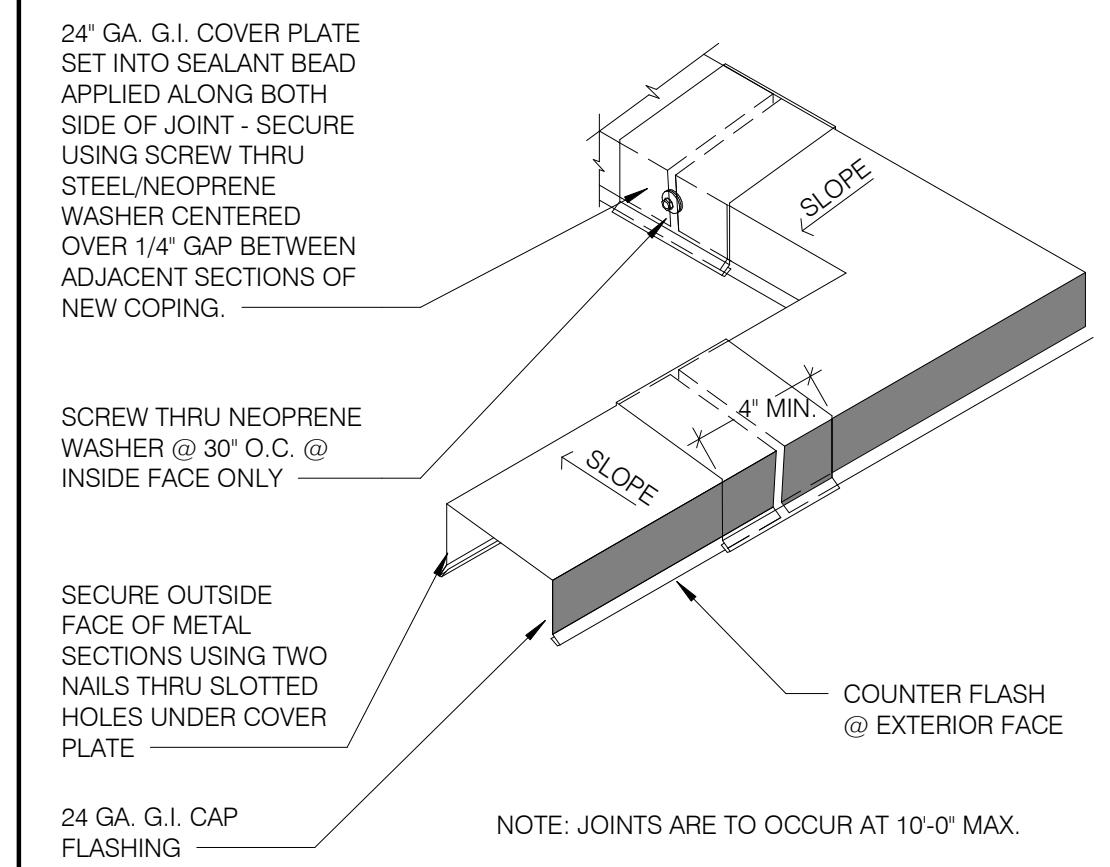
HATCH MATERIAL:
GALVANIZED STEEL (PRIME PAINTED)
COVER - 14 GA. GALV STEEL
FRAME COVER - 14 GA. GALV STEEL
FRAME CURB - 14 GA. GALV STEEL
COVER LINER - 22 GA. GALV STEEL

HATCH FINISH:
GALV - PRIME PAINTED

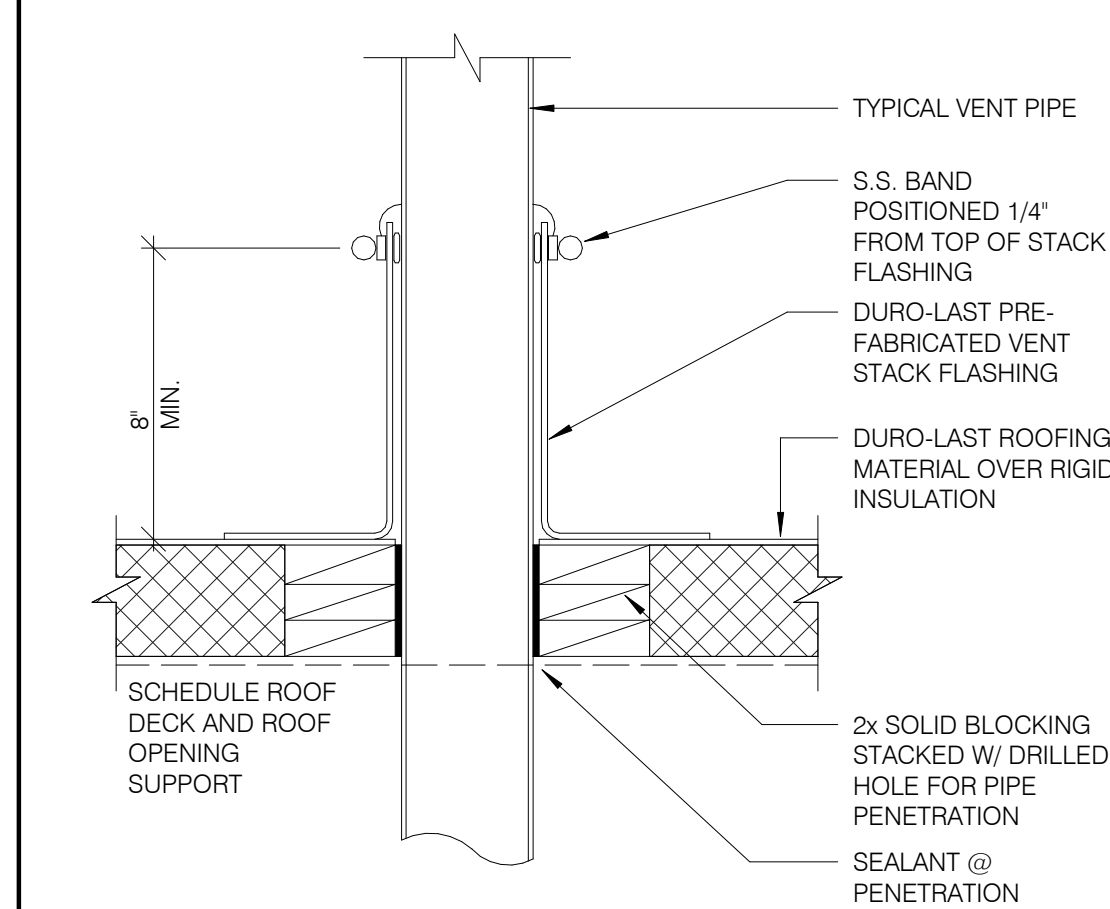
MANUFACTURER:
PRECISION LADDERS, LLC OR EQUAL

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)

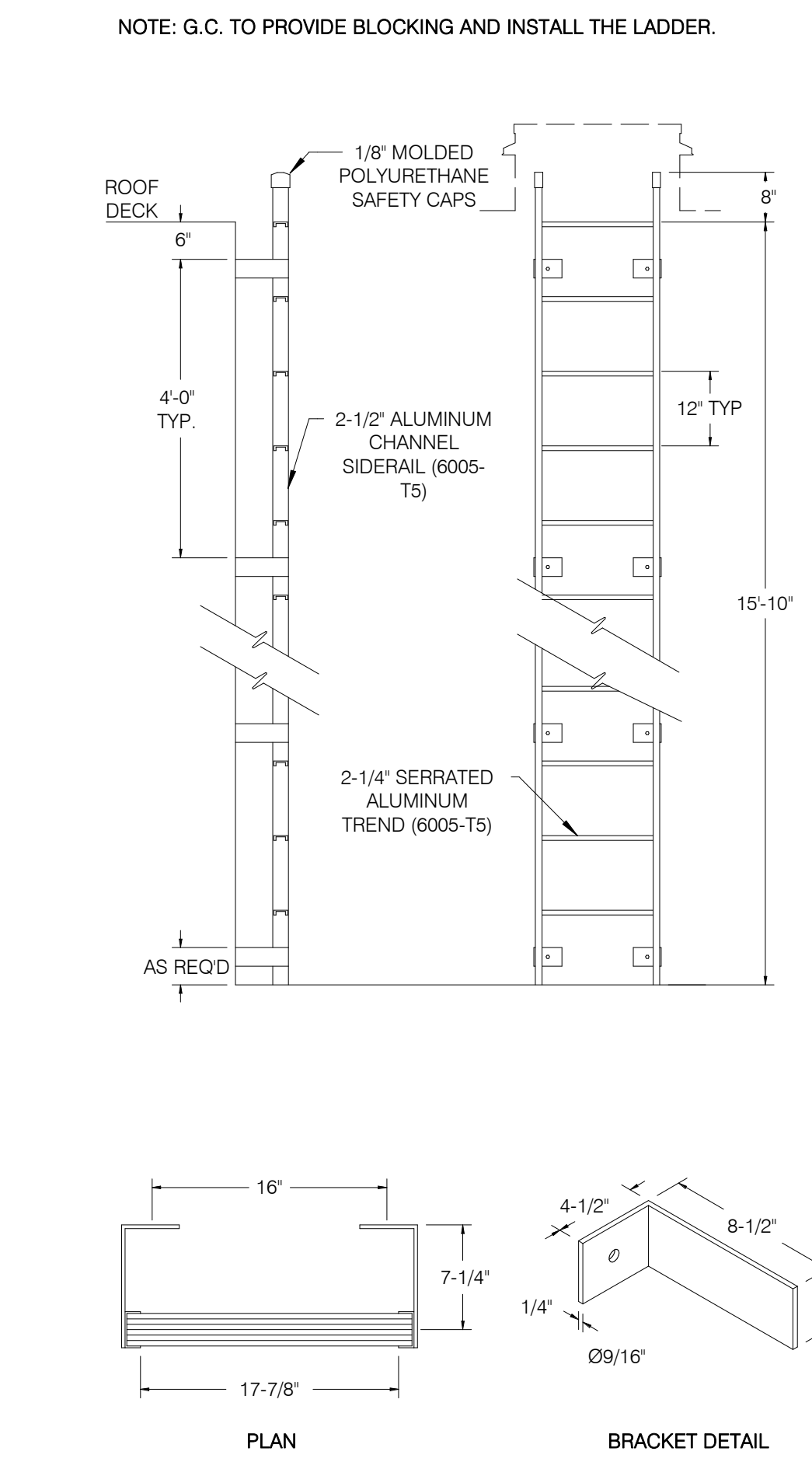
ROOF LADDER AND HATCH 3' = 1'-0" **4**



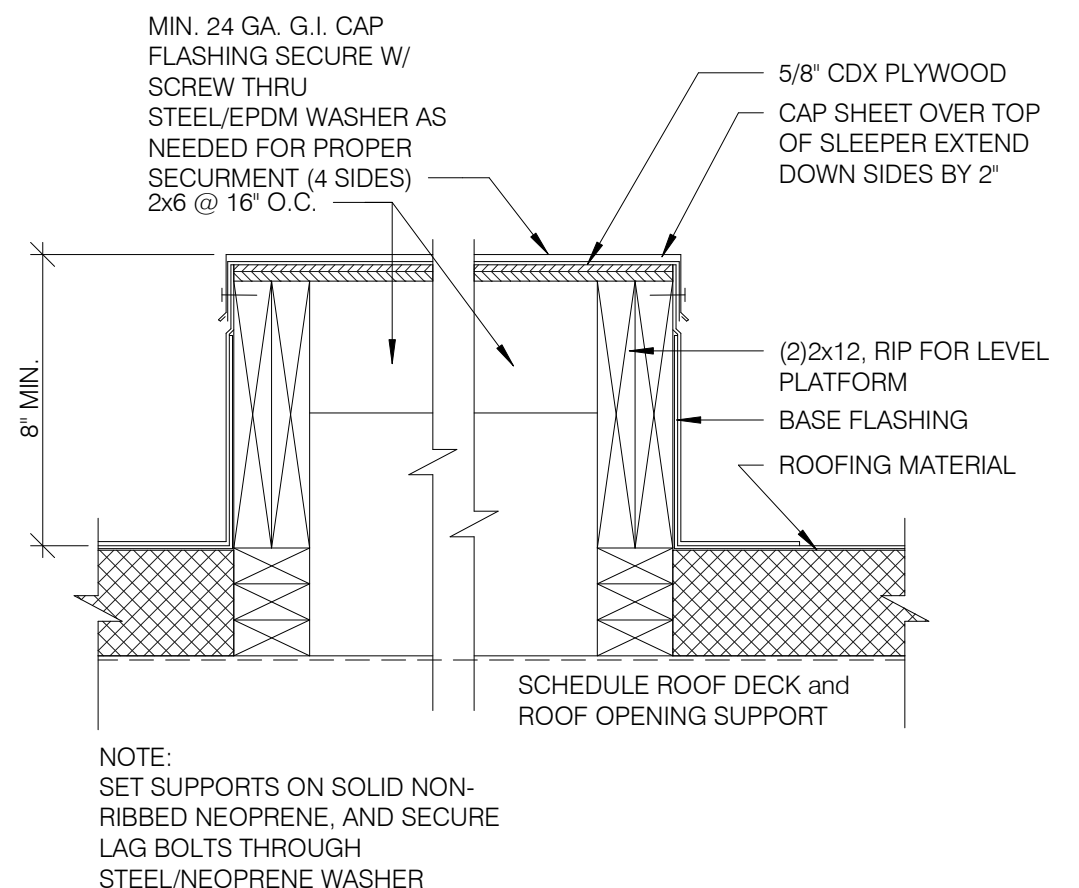
COPING JOINT N.T.S. **3**



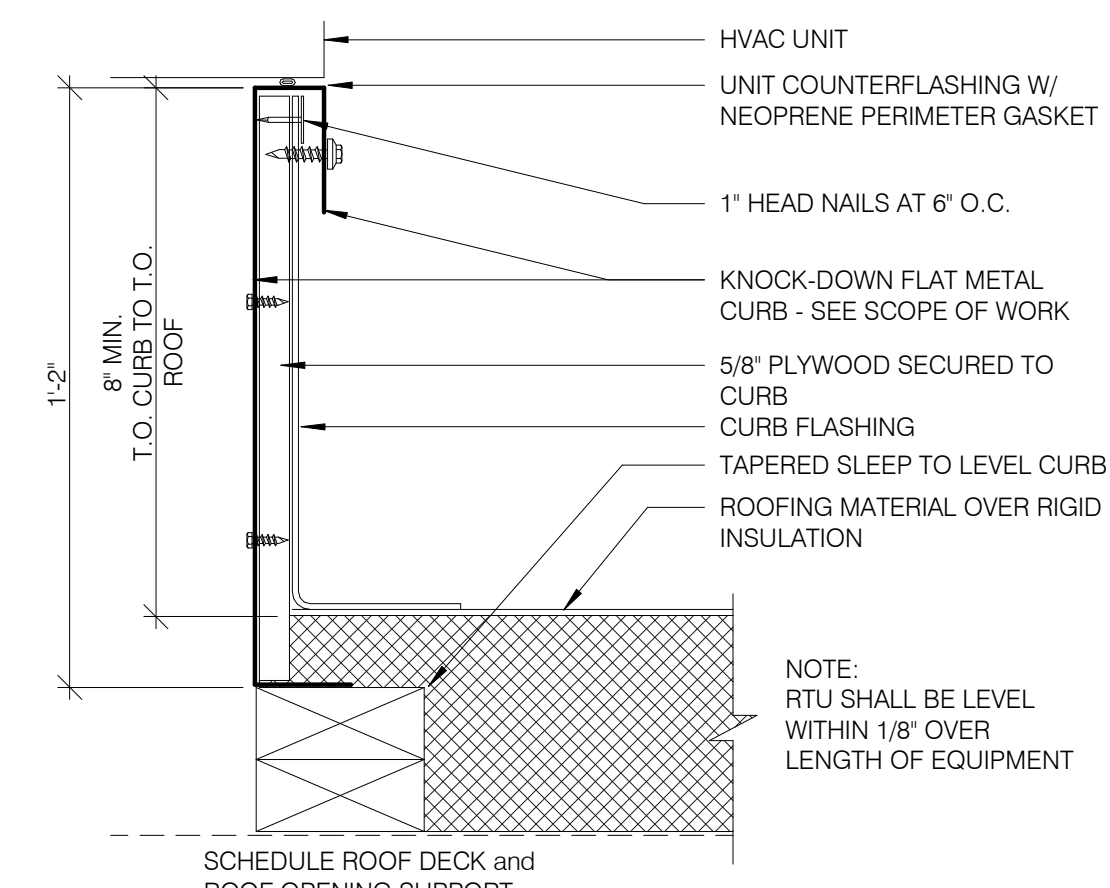
SEALED PIPE FLASHING N.T.S. **5**



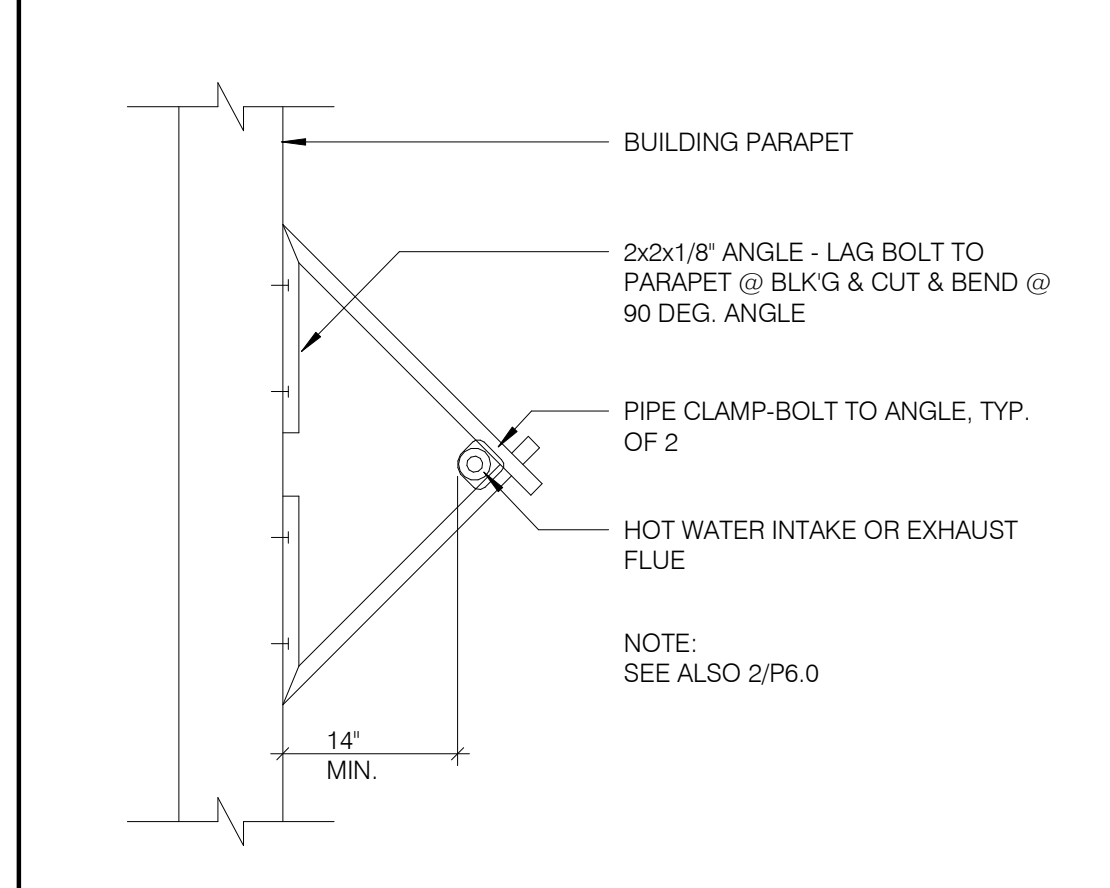
ROOF LADDER N.T.S. **2**



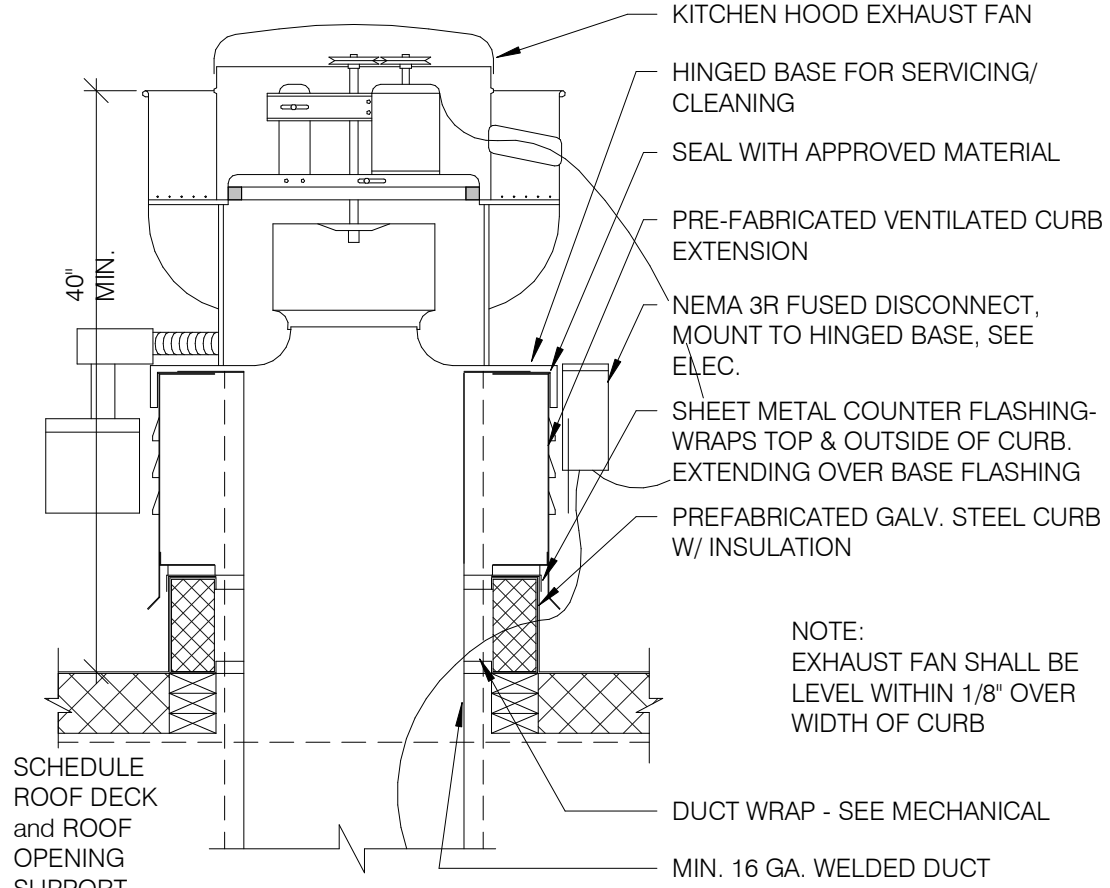
EQUIPMENT PLATFORM SUPPORT 3' = 1'-0" **10**



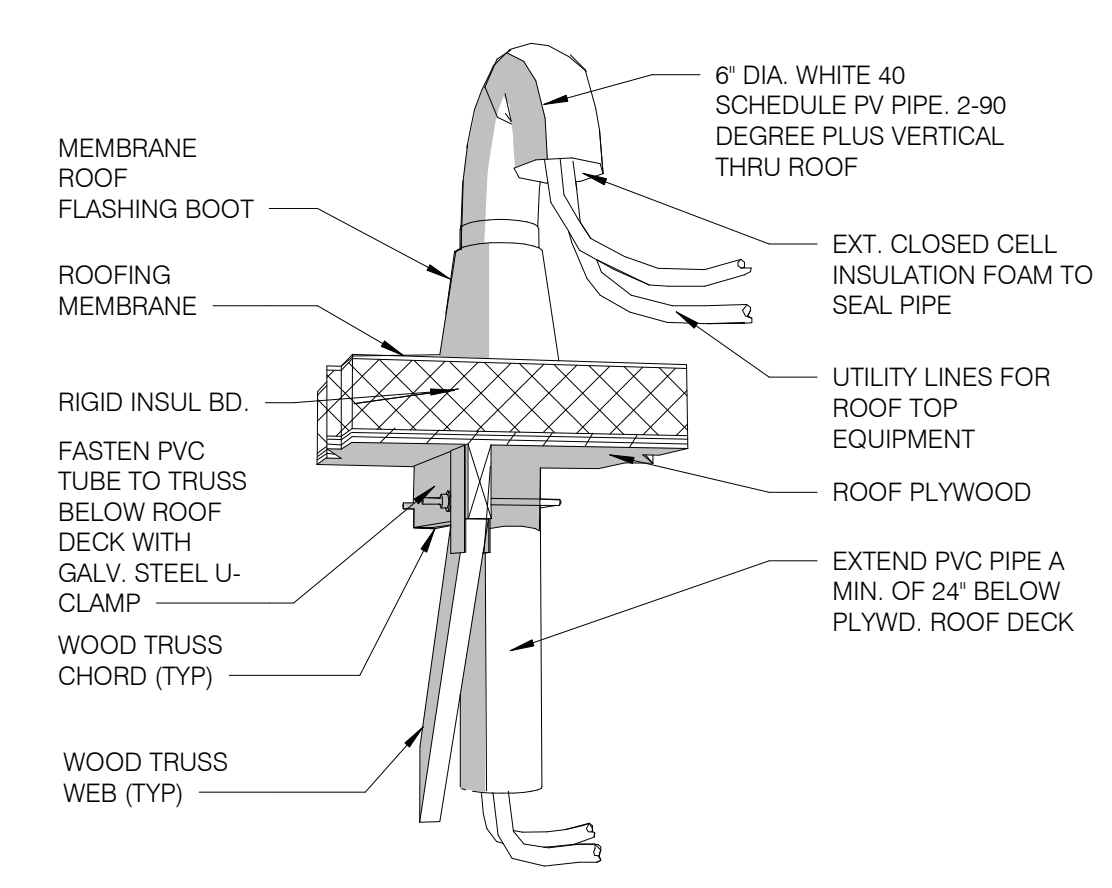
HVAC CURB 3' = 1'-0" **9**



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



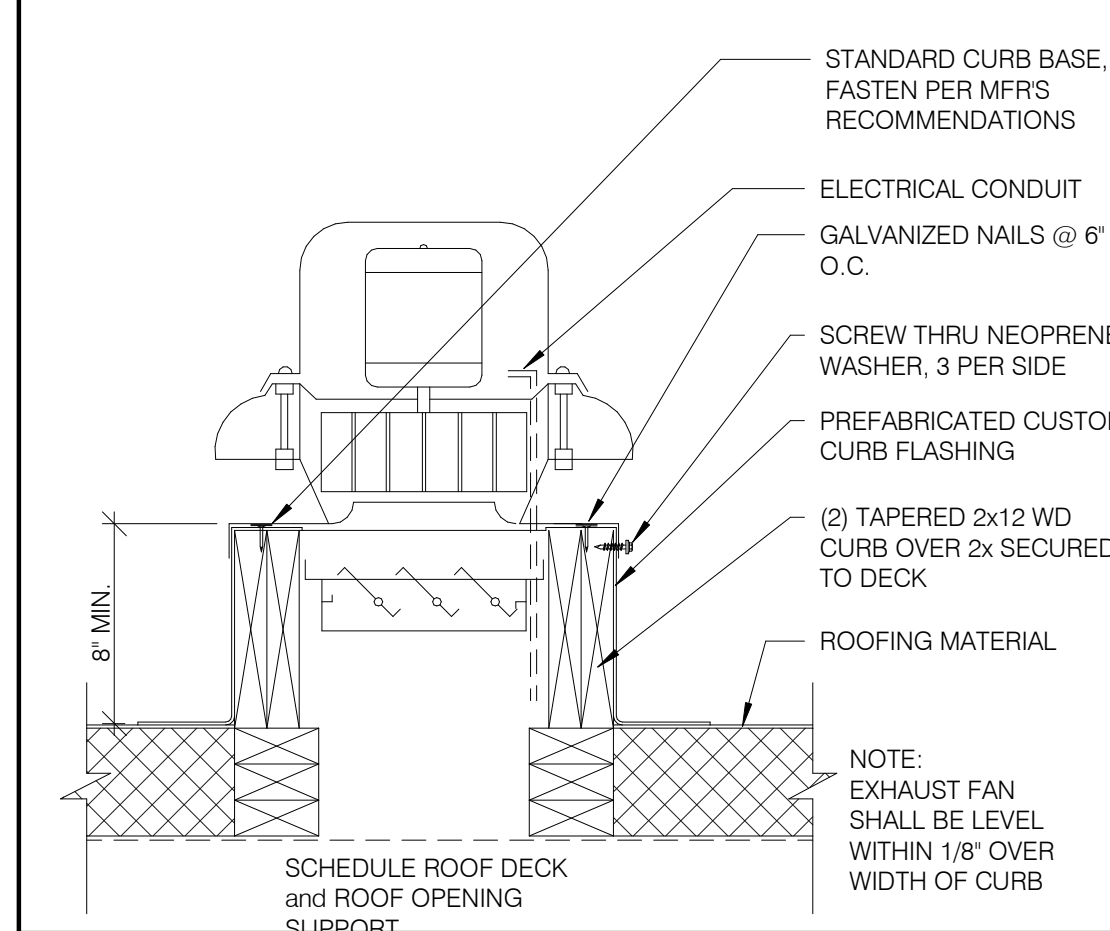
EXHAUST FAN CURB N.T.S. **7**



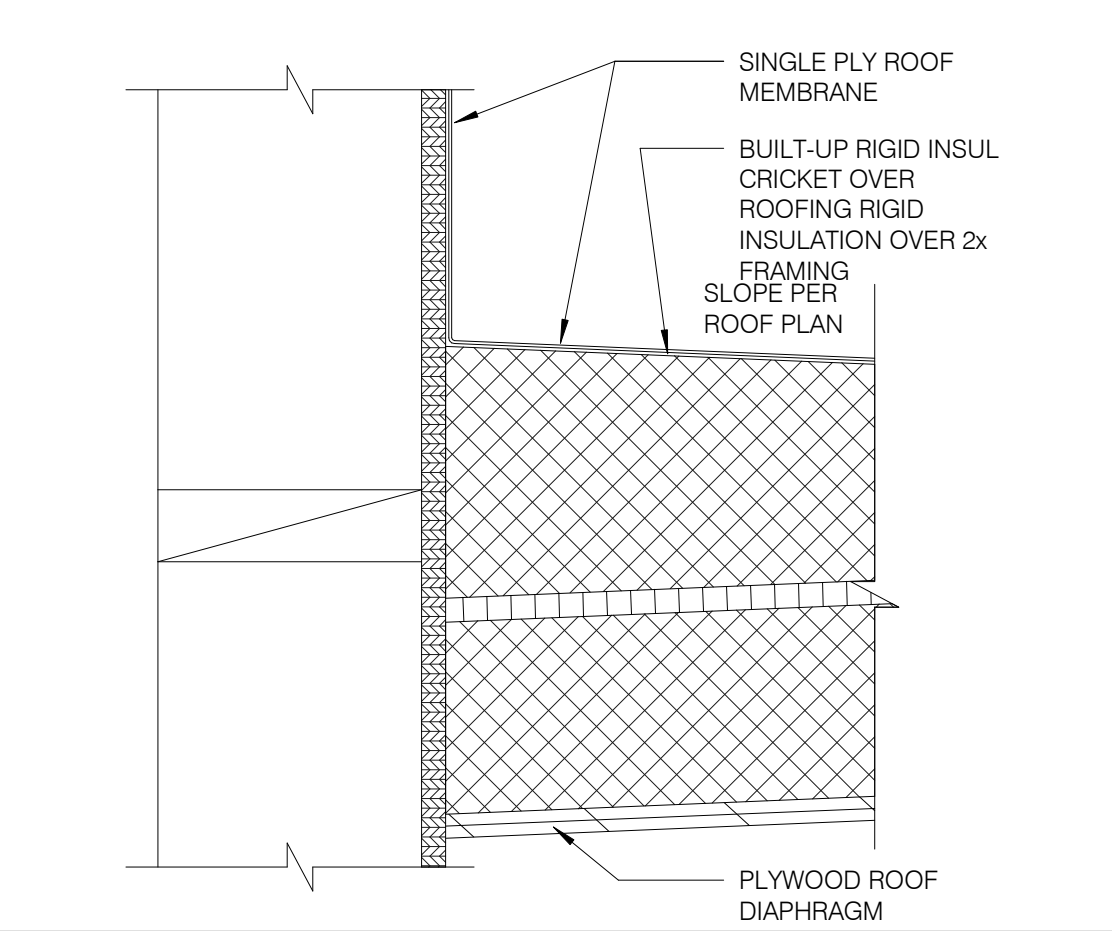
PIPE HOOD N.T.S. **6**



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



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



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

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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 201608.09

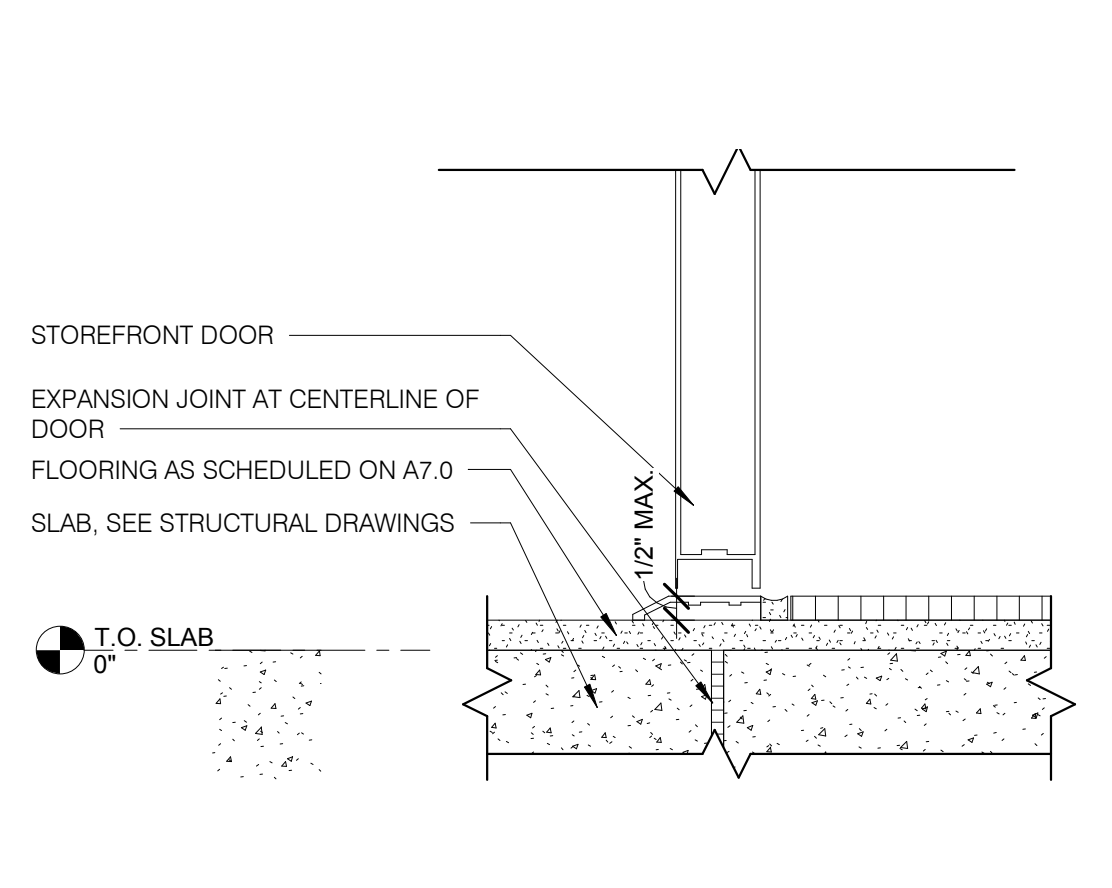
TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

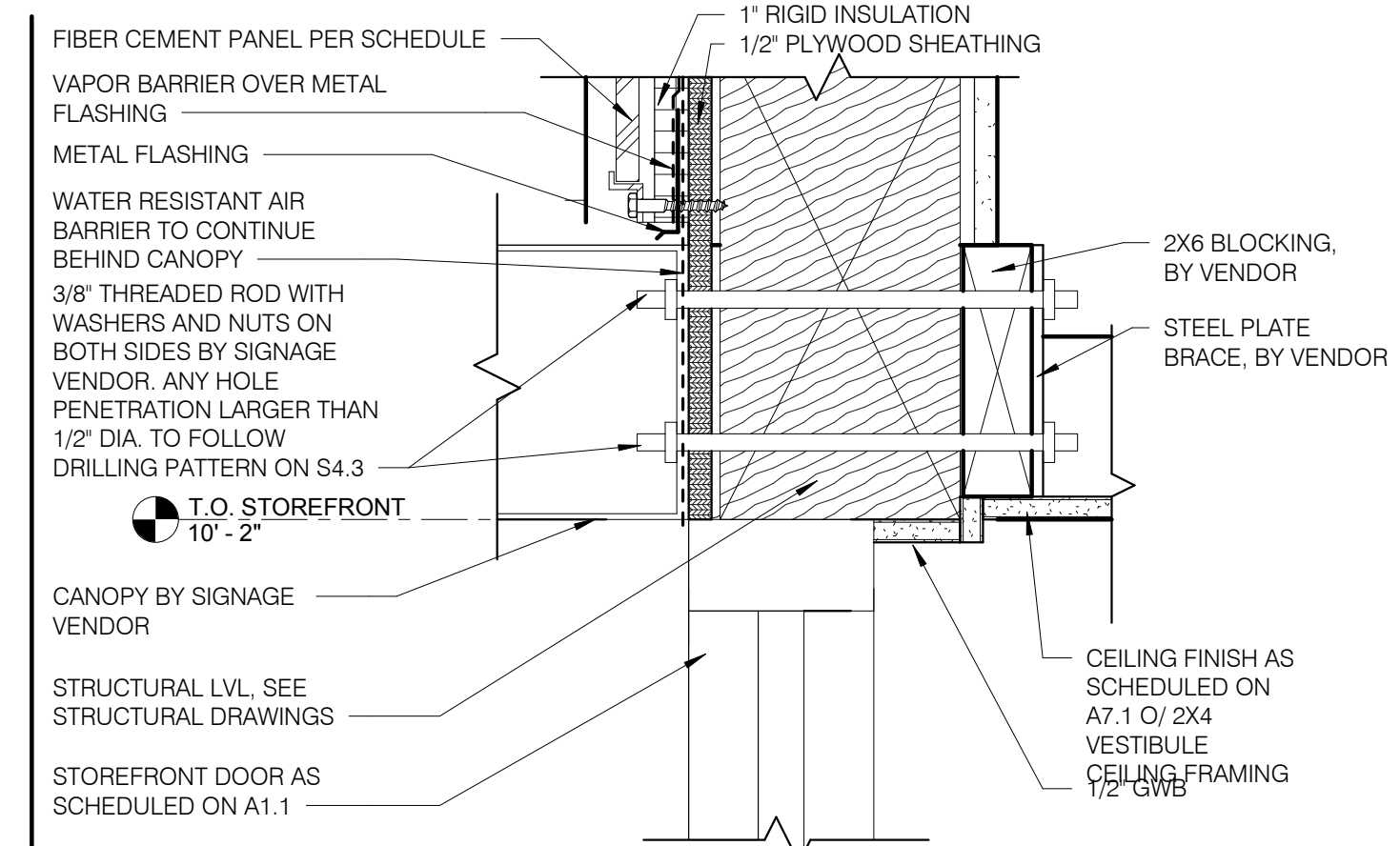
CONSTRUCTION DETAILS ROOF

A6.2

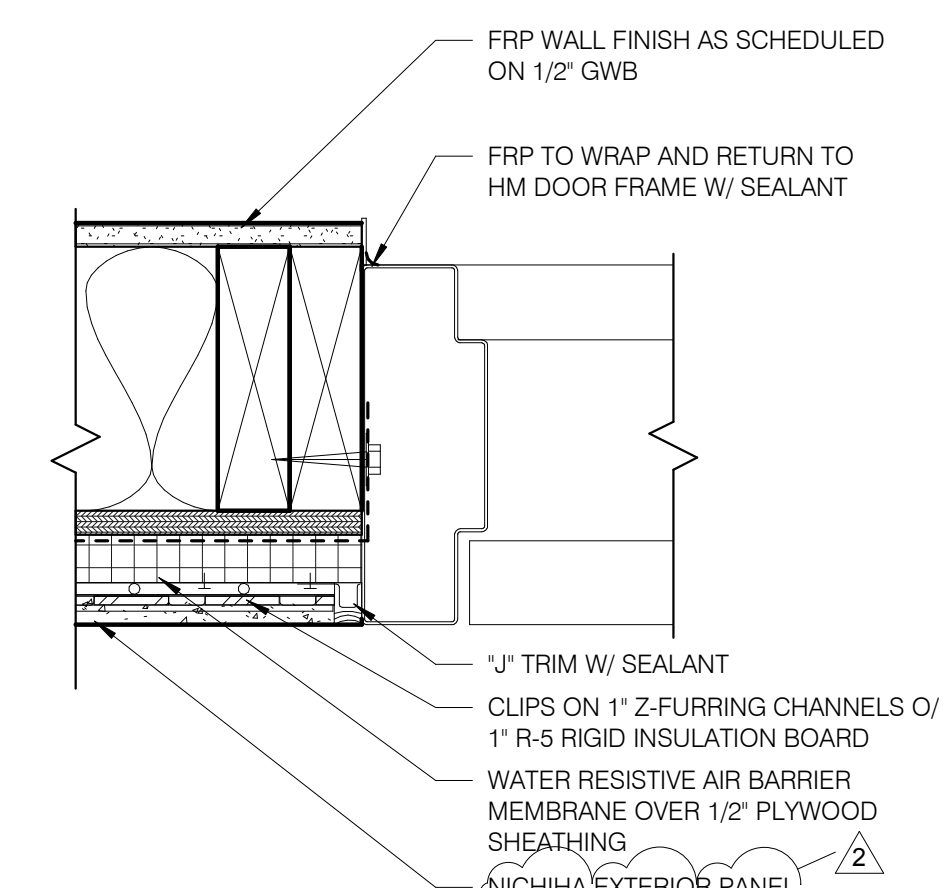
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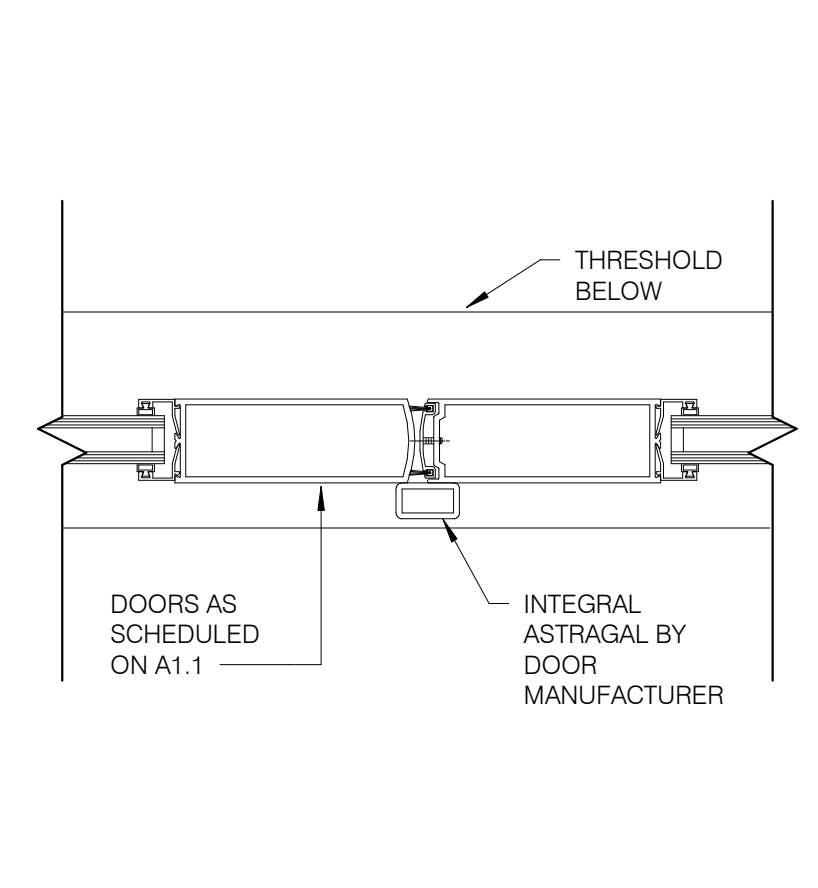
STOREFRONT DOOR THRESHOLD 3" = 1'-0" **4**



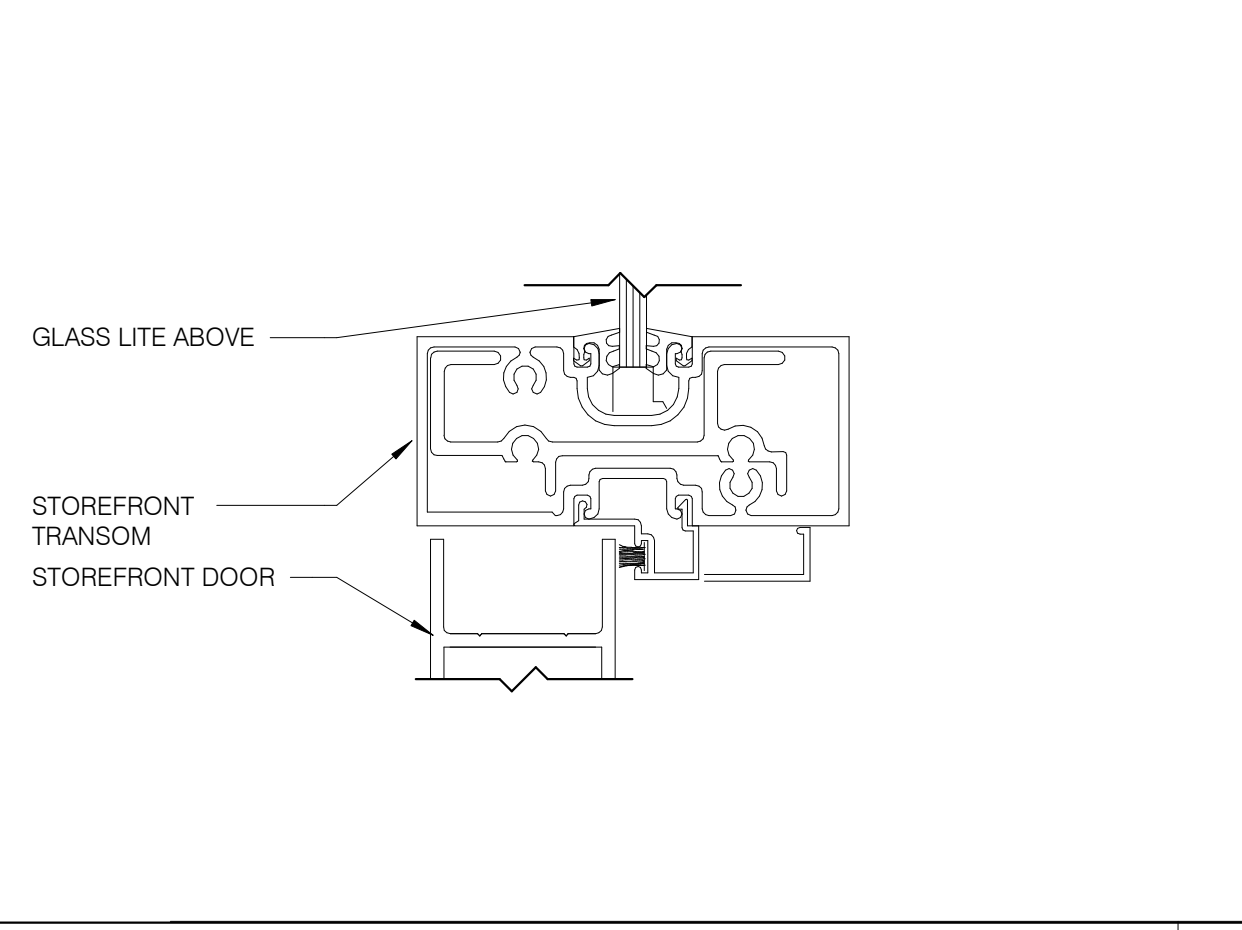
STOREFRONT DOOR HEAD 3" = 1'-0" **3**



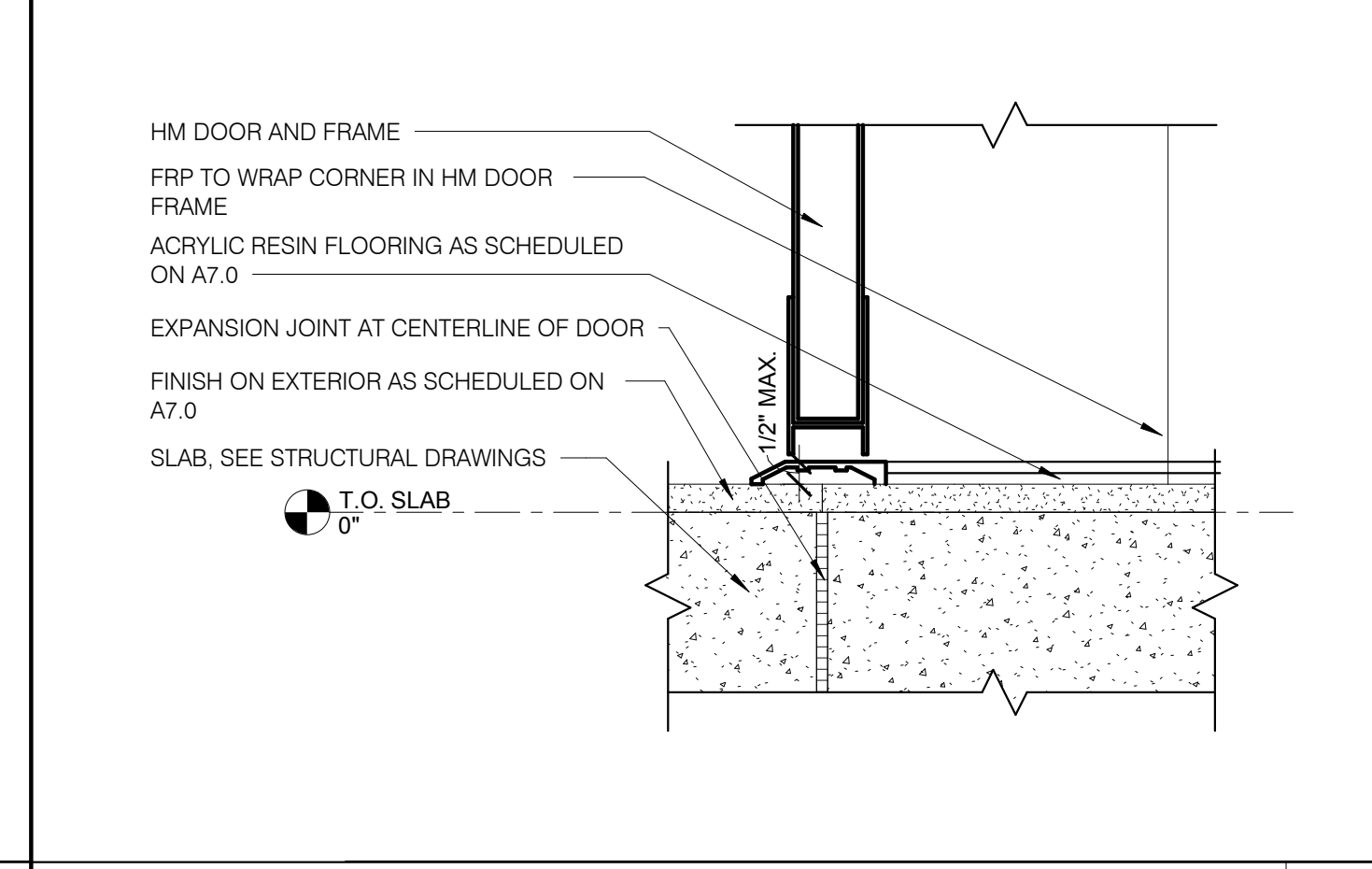
JAMB AT SERVICE DOOR 3" = 1'-0" **2**



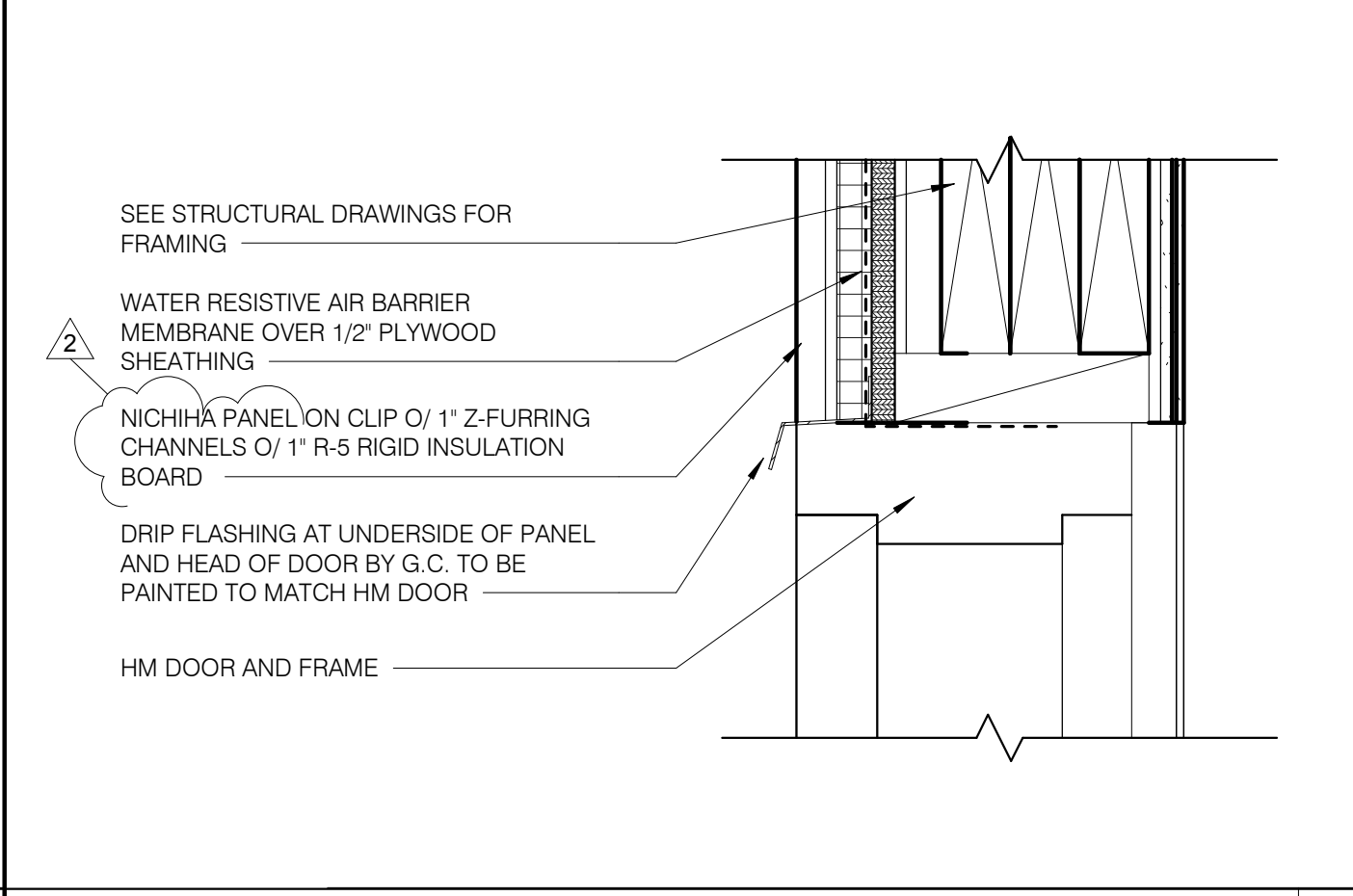
STOREFRONT JAMB AT ENTRANCE 3" = 1'-0" **1**



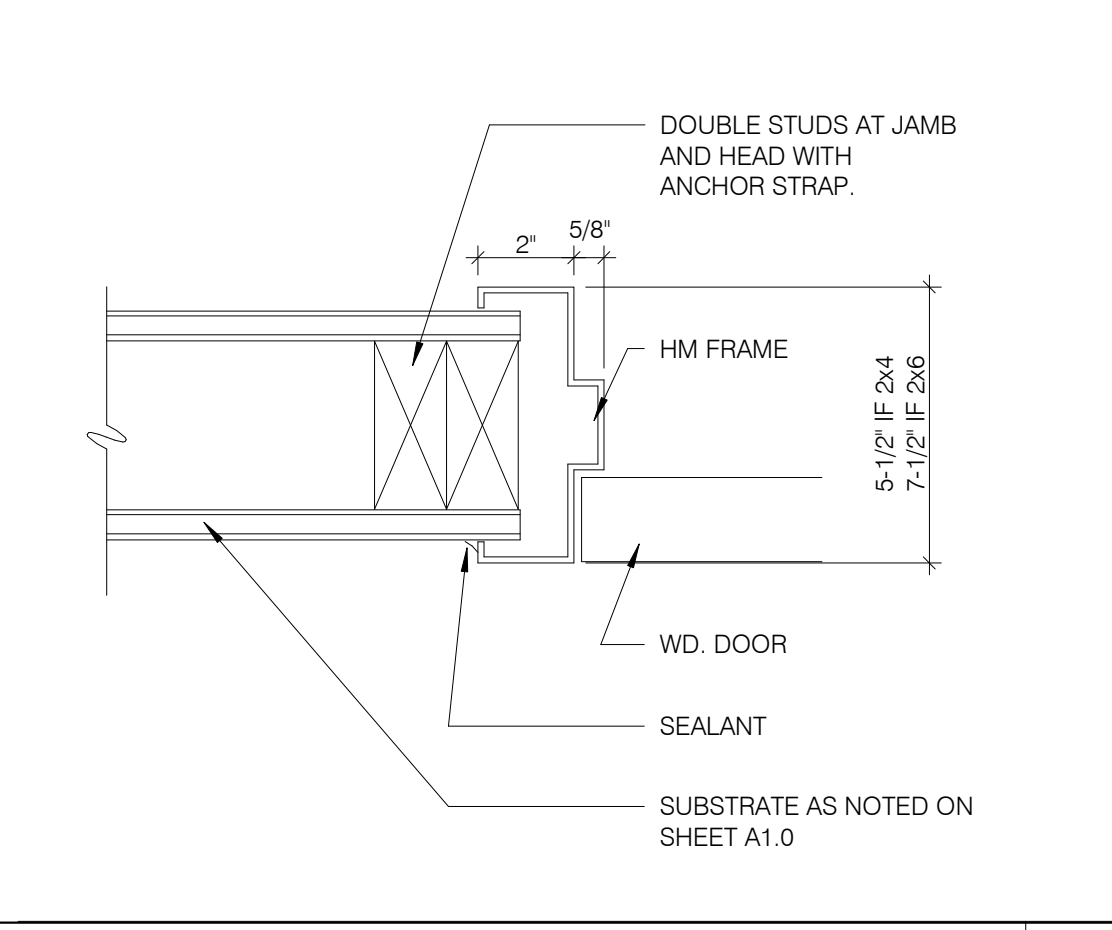
STOREFRONT DOOR HEAD AT TRANSOM 6" = 1'-0" **8**



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



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



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

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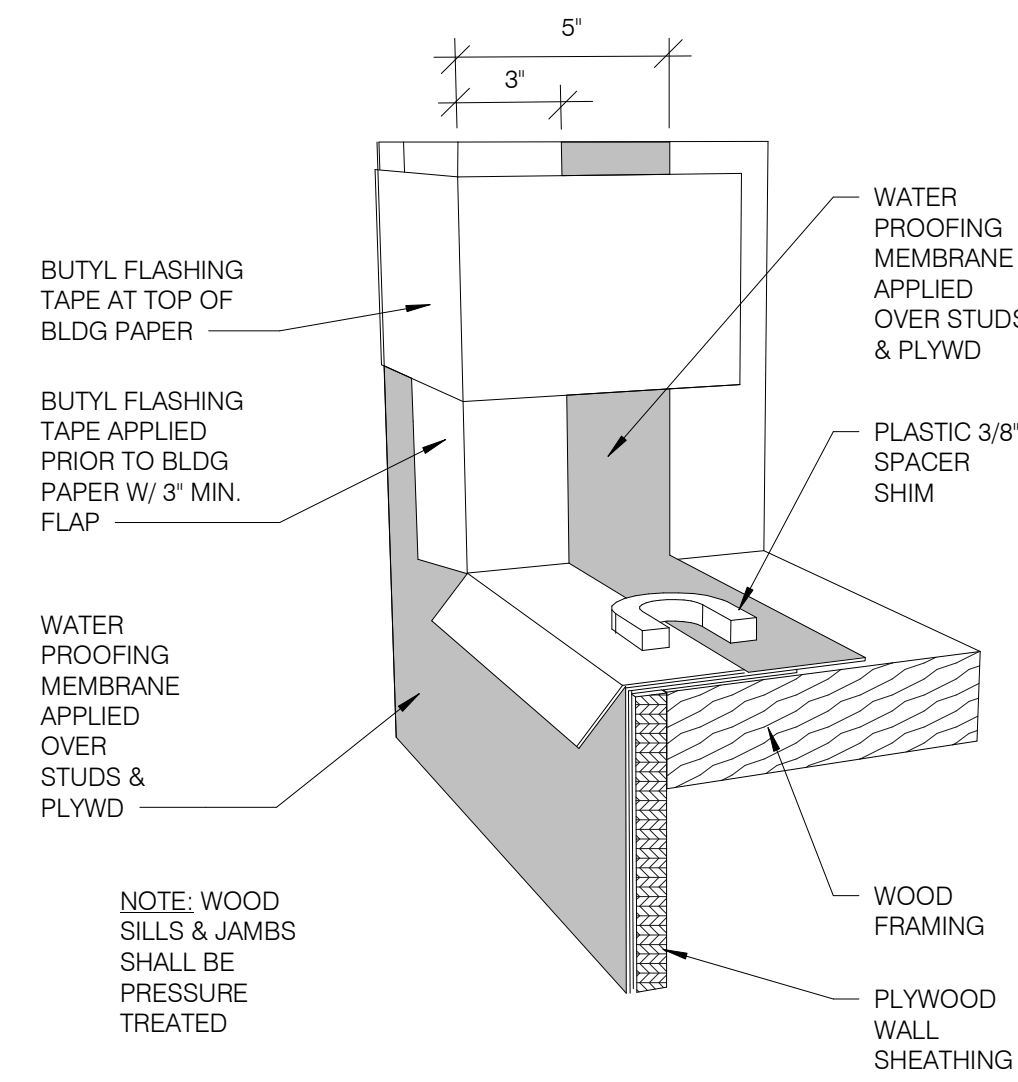
CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

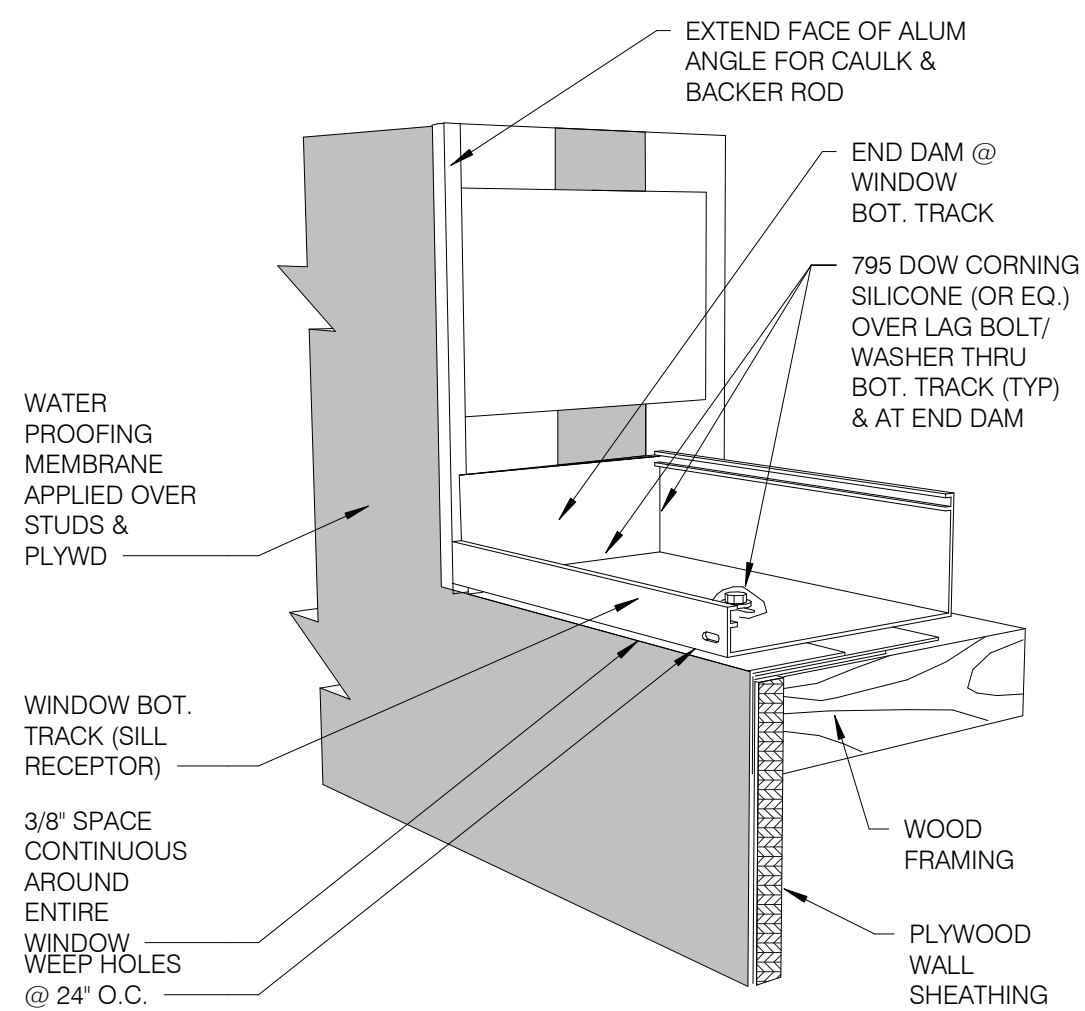
**CONSTRUCTION
DETAILS DOOR**

A6.3
PLOT DATE: 6/18/2018 3:41:44 PM



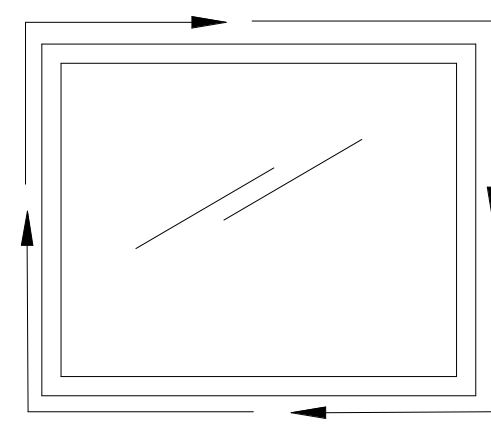
WATER PROOFING ROUGH OPENING

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



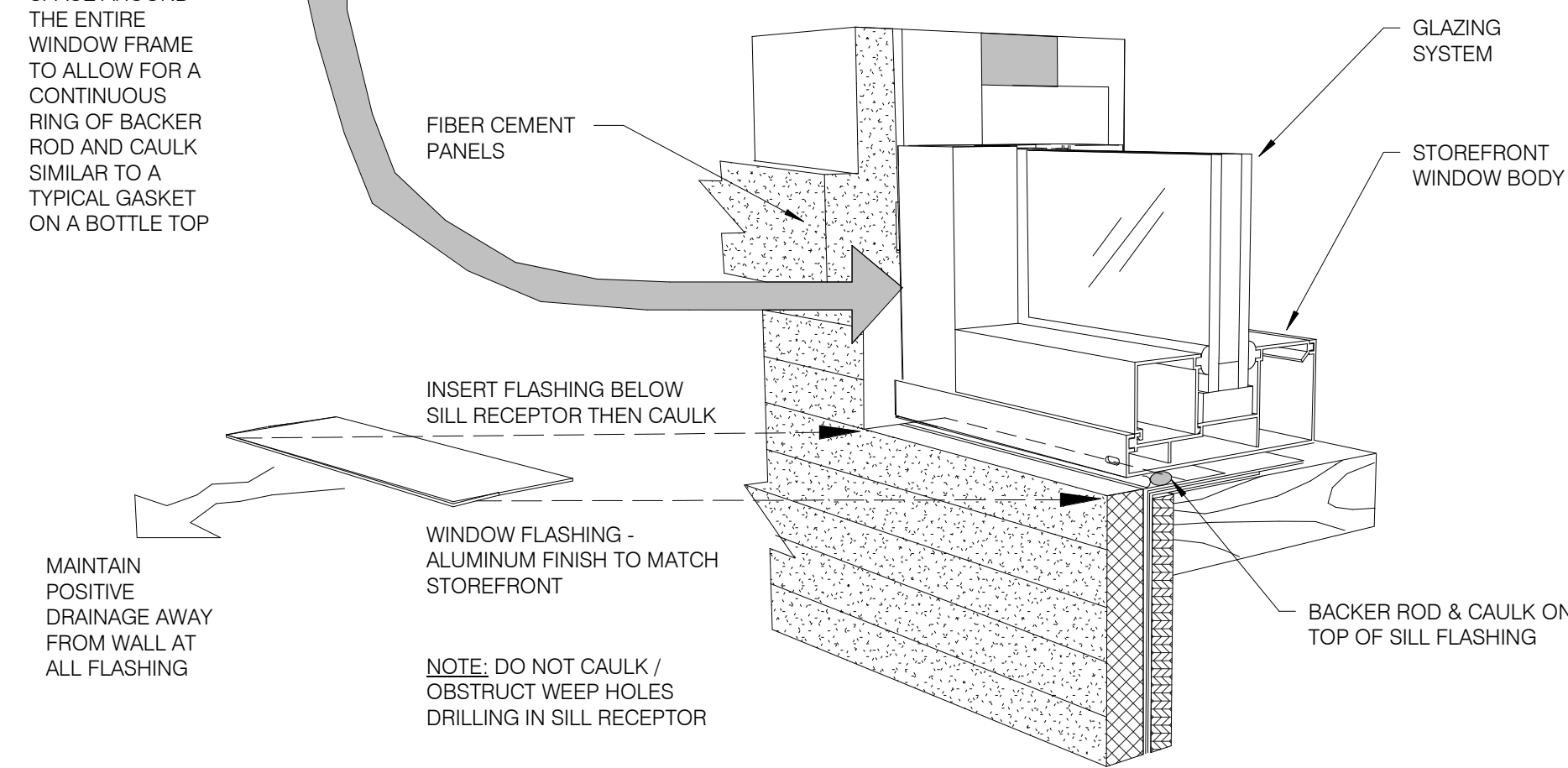
ADD SILL RECEPTOR AND END DAM

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

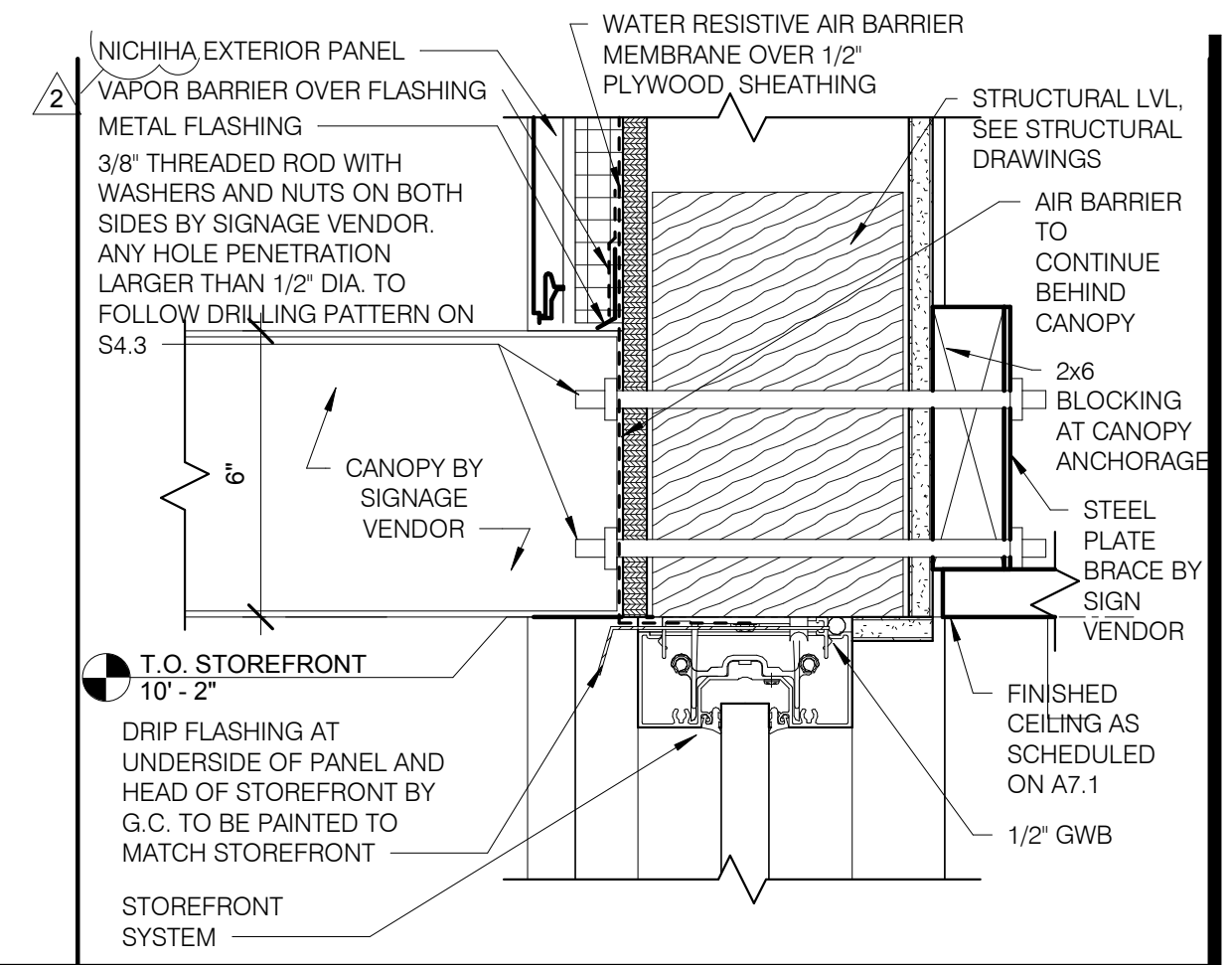


COMPLETING WINDOW SYSTEM

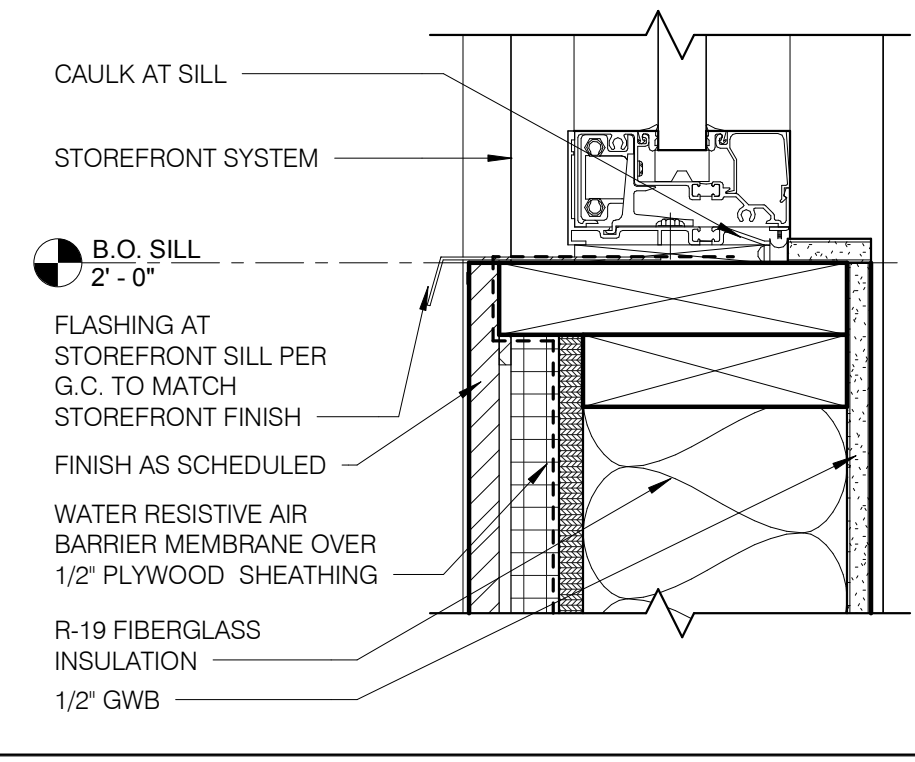
SET STOREFRONT WINDOW, APPLY FIBER CEMENT PANEL SYSTEM AND THEN ADD WINDOW FLASHING OVER TOP OF FIBER CEMENT PANEL AT WINDOW SILL

TYPICAL WINDOW WALL WATER PROOFING

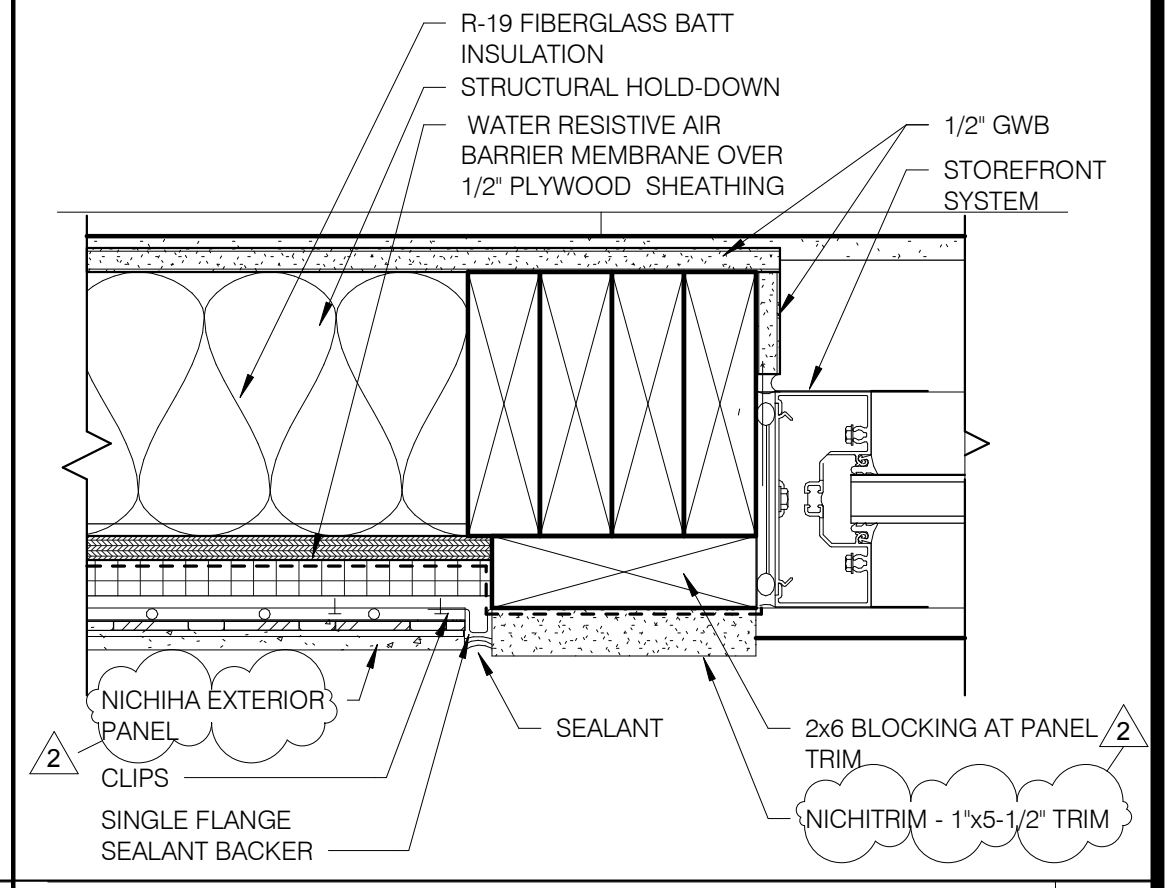
N.T.S. 8



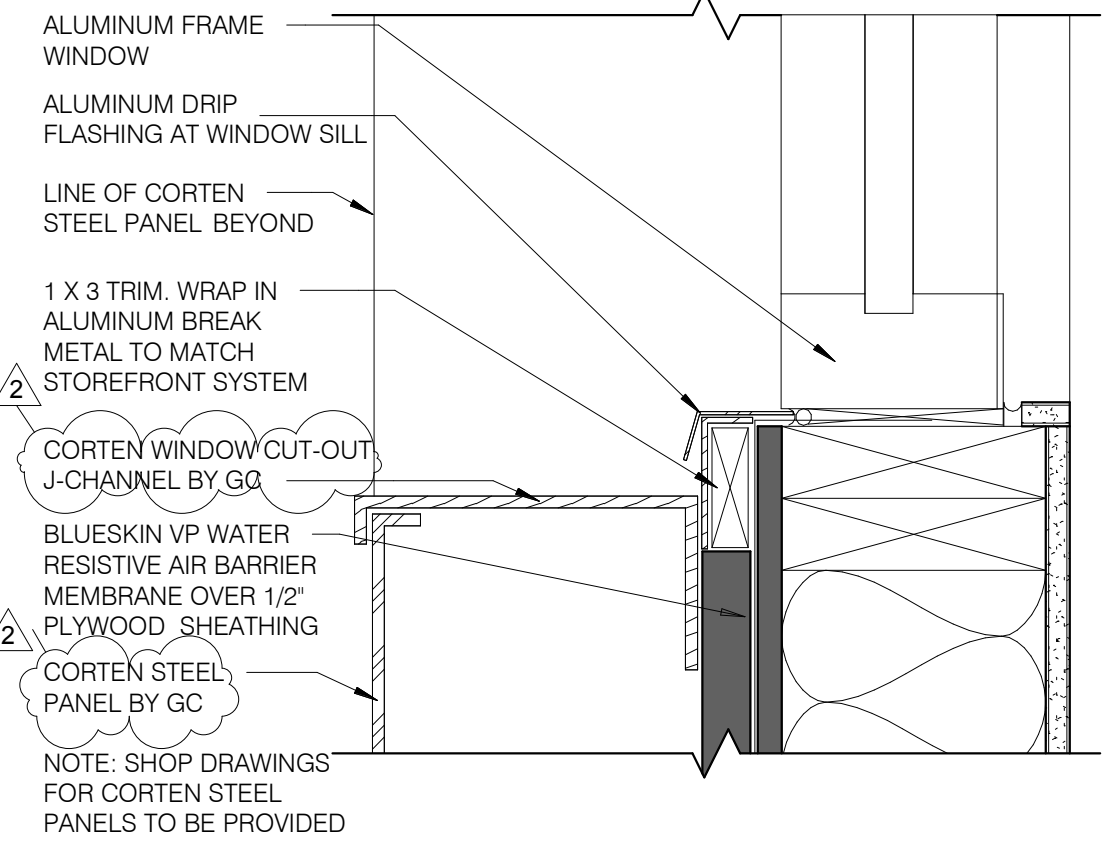
STOREFRONT HEAD AT DINING 3' = 1'-0" 1



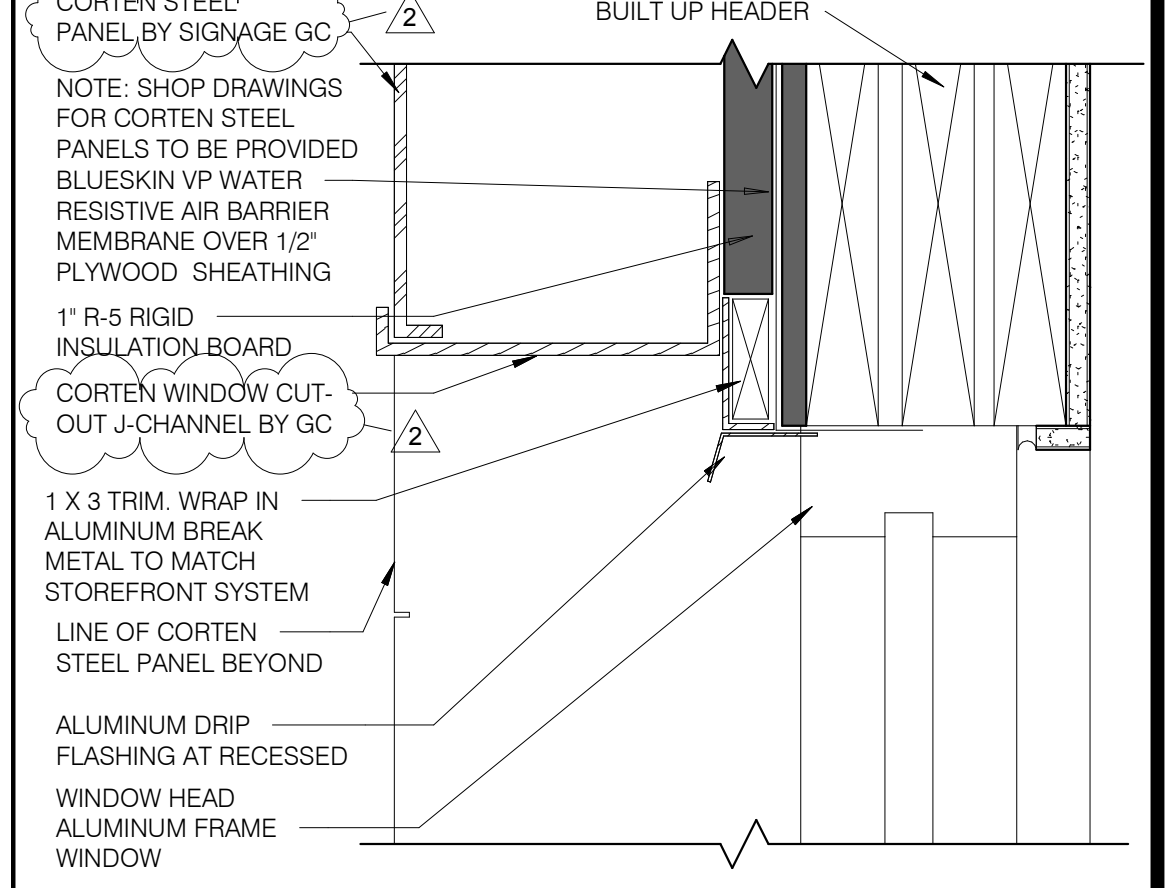
STOREFRONT SILL AT DINING 3' = 1'-0" 4



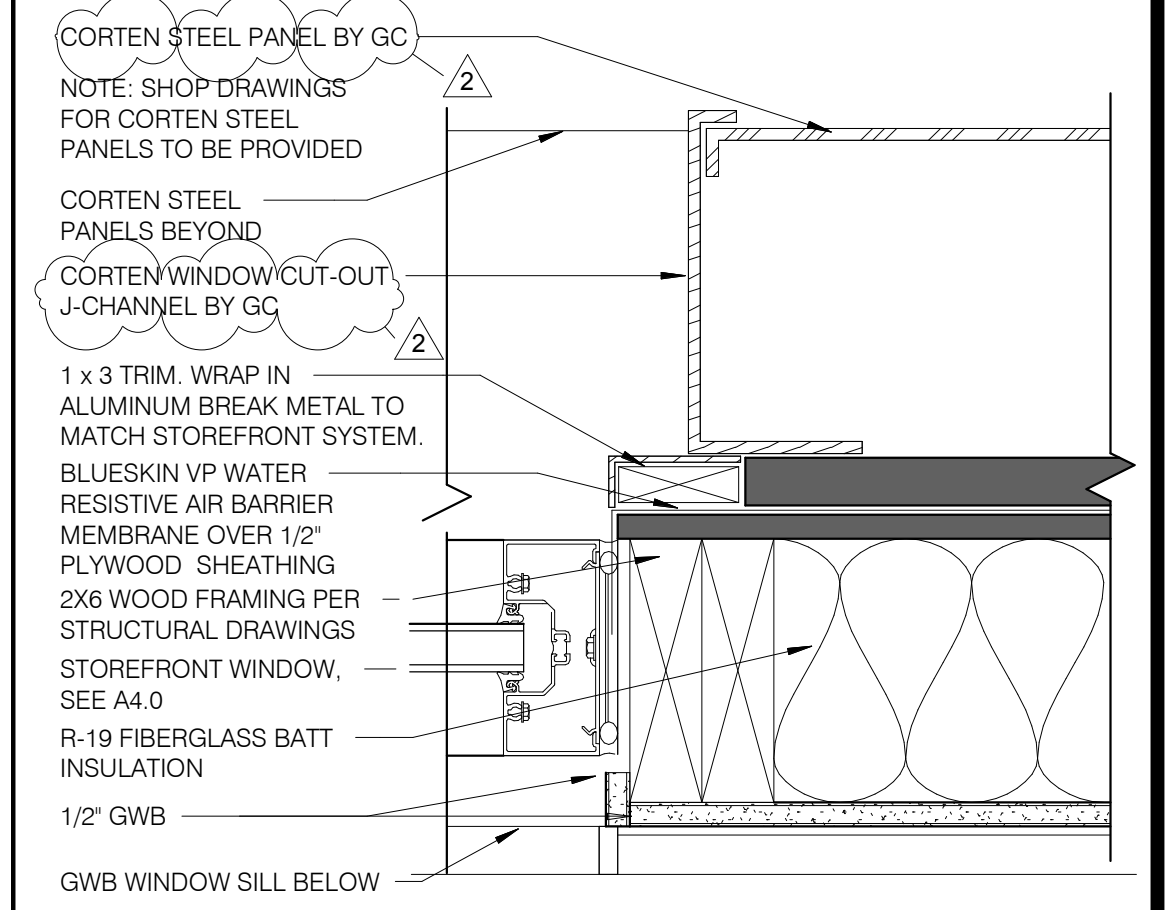
STOREFRONT JAMB DETAIL 3' = 1'-0" 3



WINDOW SILL AT TOWER N.T.S. 6



WINDOW HEAD AT TOWER N.T.S. 5



WINDOW JAMB AT TOWER N.T.S. 7

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| 2 | 06/14/18 | BULLETIN 2 |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

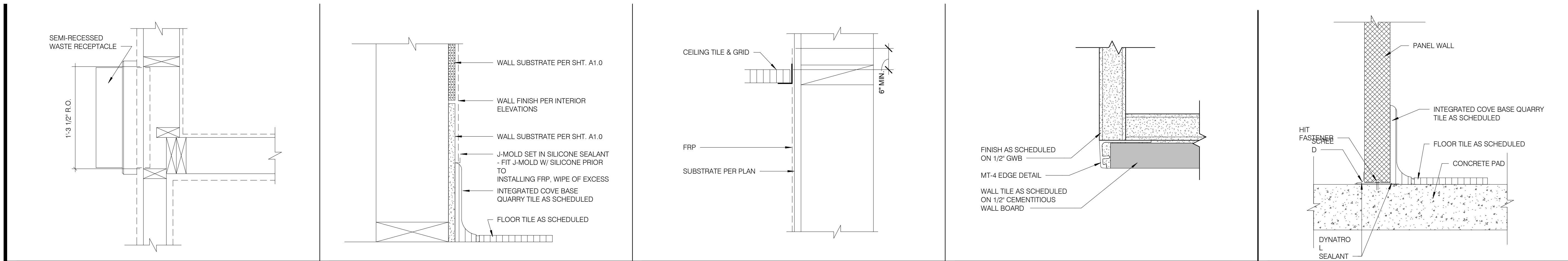
TACO BELL
20779 E. 13 MILE RD.
ROSELVILLE, MI 48066

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

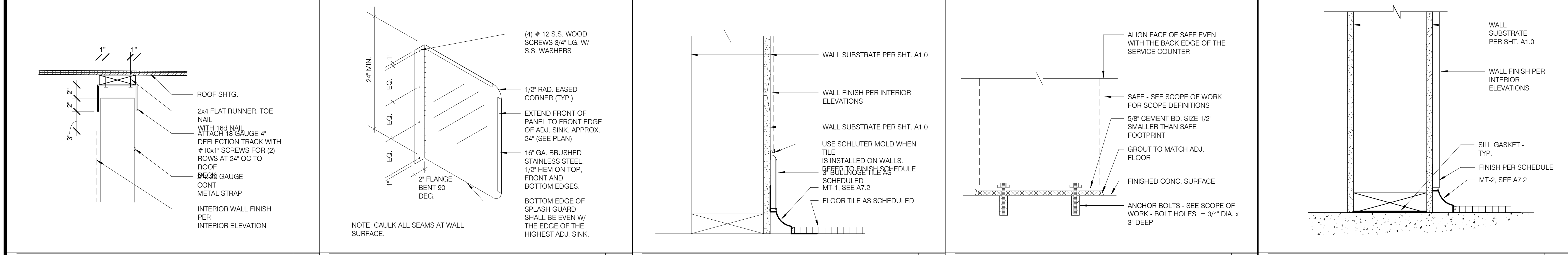
CONSTRUCTION DETAILS WINDOW

A6.4

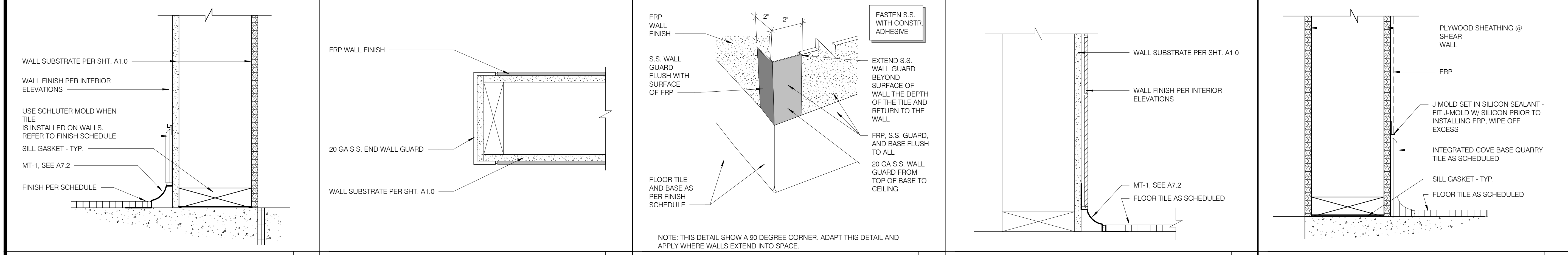
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5 SEMI-RECESSED WASTE RECEPT N.T.S. **5** **4 KITCHEN FINISH @ BASE** N.T.S. **4** **3 KITCHEN FINISH @ CEILING** N.T.S. **3** **2 DETAIL AT EDGE OF TILE WALL** 12" = 1'-0" **2** **1 WALK-IN BASE** N.T.S. **1**



10 DEFLECTION TRACK DETAIL N.T.S. **10** **9 SPLASH GUARD** N.T.S. **9** **8 BASE @ DINING ROOM INT. WALL** N.T.S. **8** **7 SAFE PEDESTAL** N.T.S. **7** **6 BASE @ SAUCE AND SODA WALL** N.T.S. **6**



15 BASE @ DINING EXT. SIDE WALLS N.T.S. **15** **14 S.S. END WALL GUARD** N.T.S. **14** **13 S.S. CORNER & END WALL GUARD** N.T.S. **13** **12 BASE IN RESTROOM** N.T.S. **12** **11 BASE @ KITCHEN EXT. REAR WALL** N.T.S. **11**



17 TILE TO CONCRETE SIDEWALK N.T.S. **17** **16 S.S. DTL. @ KITCHEN STOREFRONT** 3" = 1'-0" **16**

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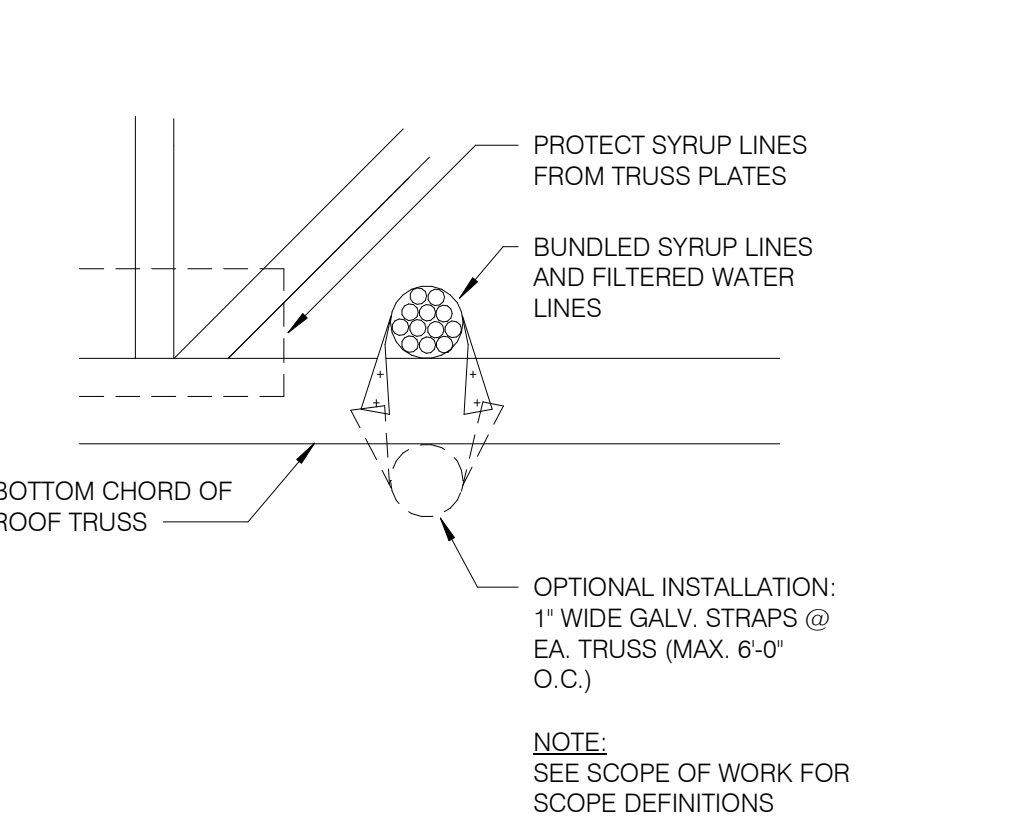
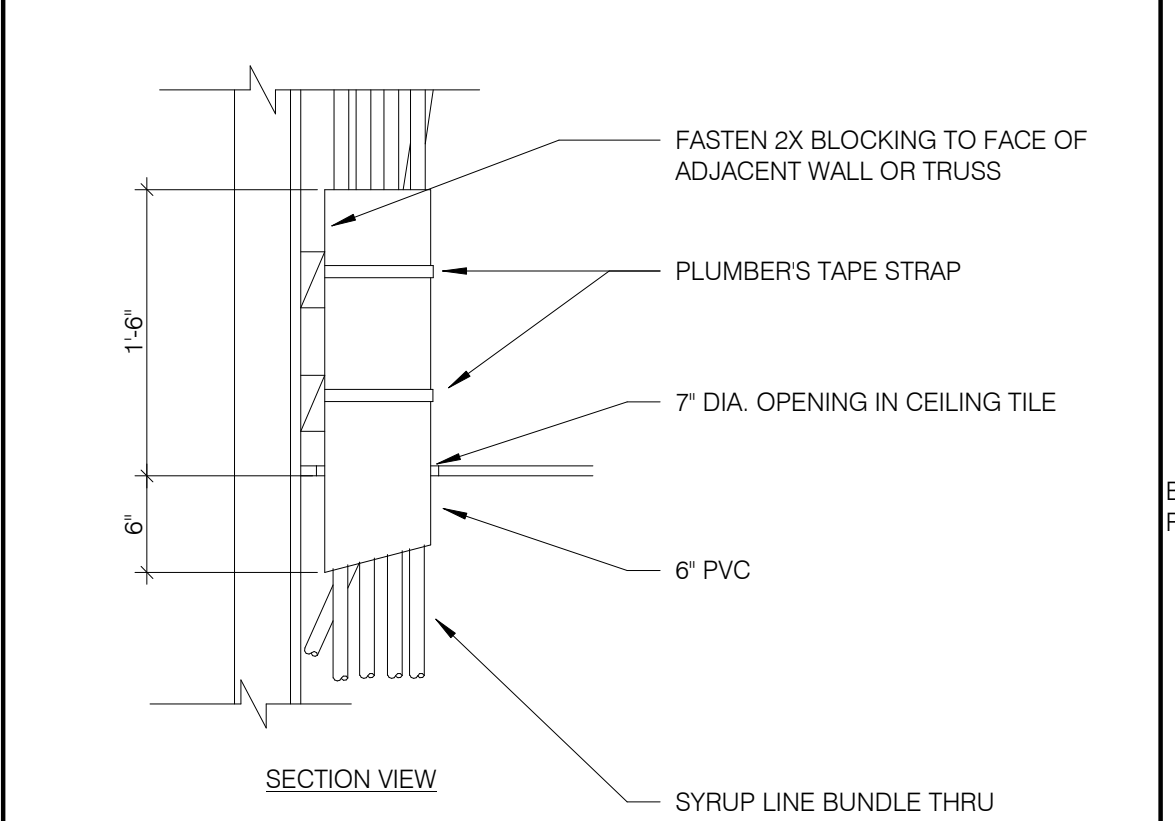
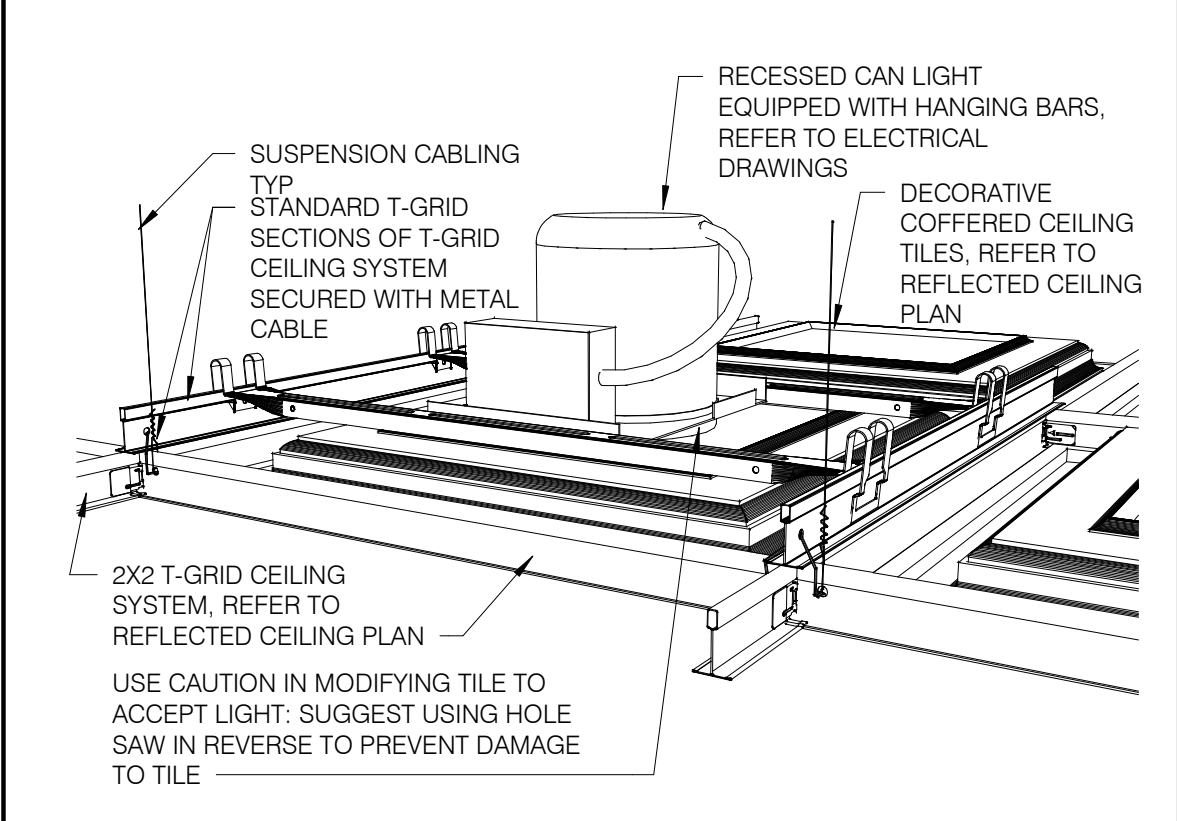
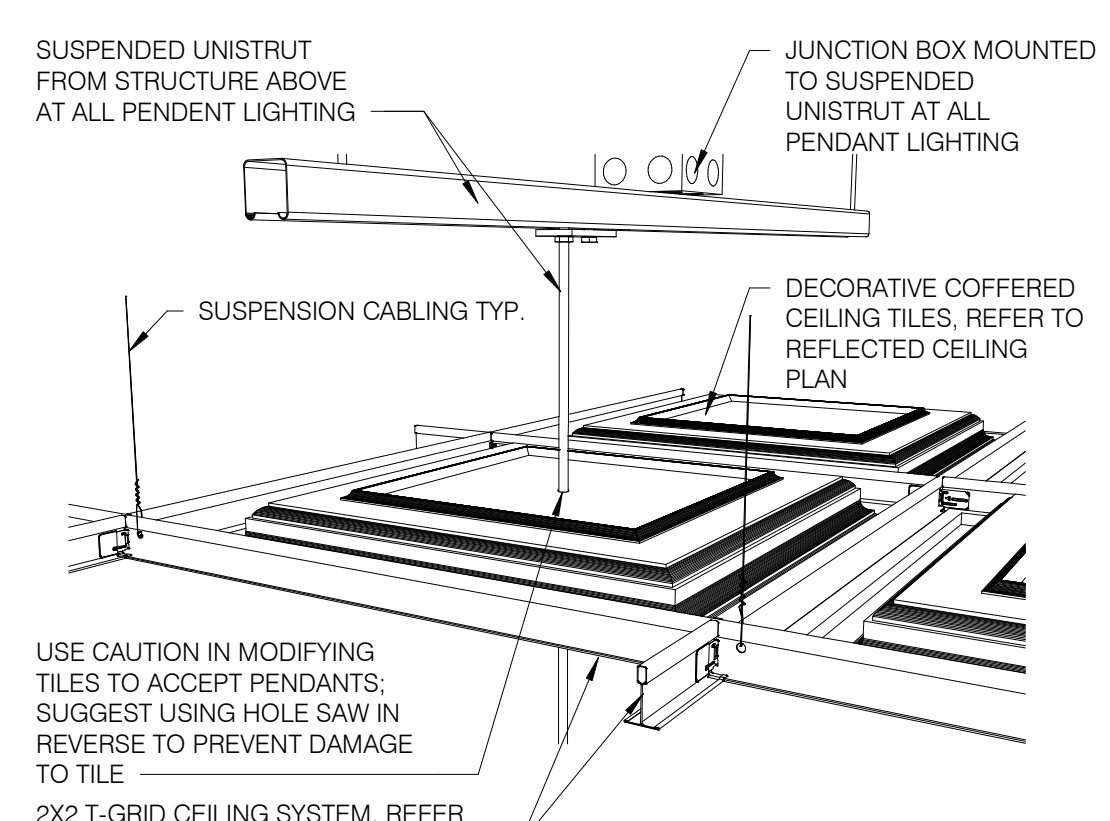
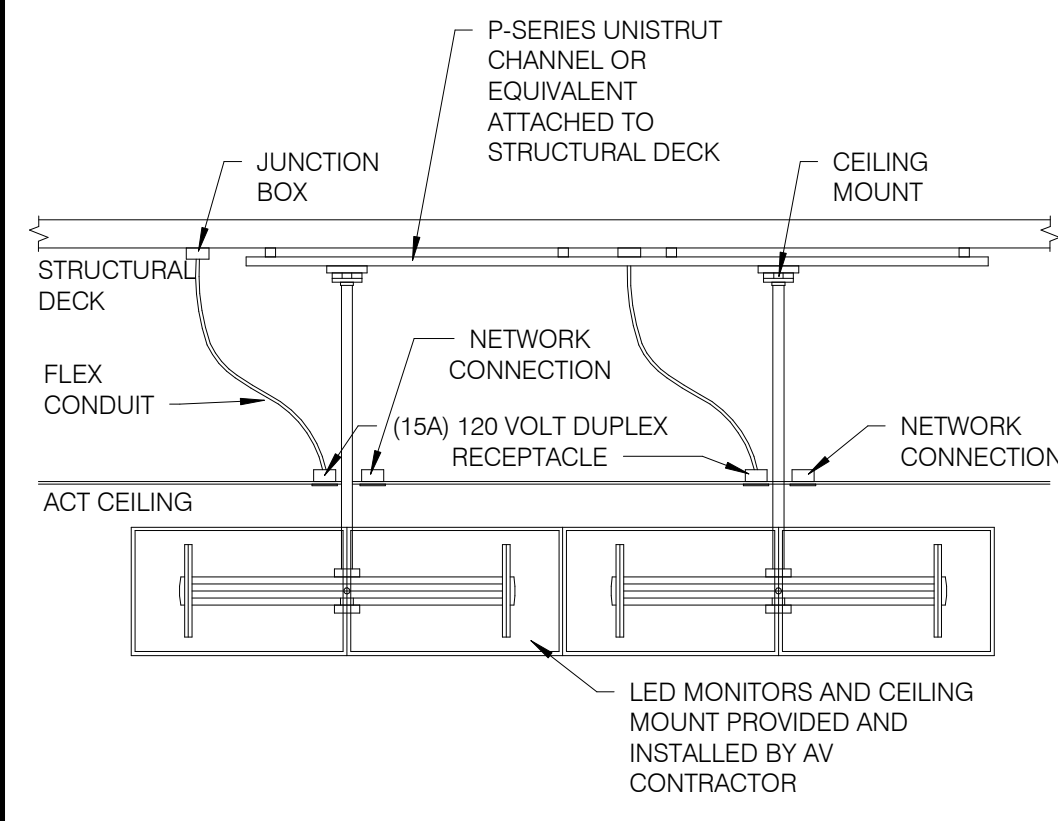
CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312262/442877
 STORE NUMBER: 2016088.09

TACO BELL
 20779 E. 13 MILE RD.
 ROSEVILLE, MI 48066



FINISH DETAILS

A6.5



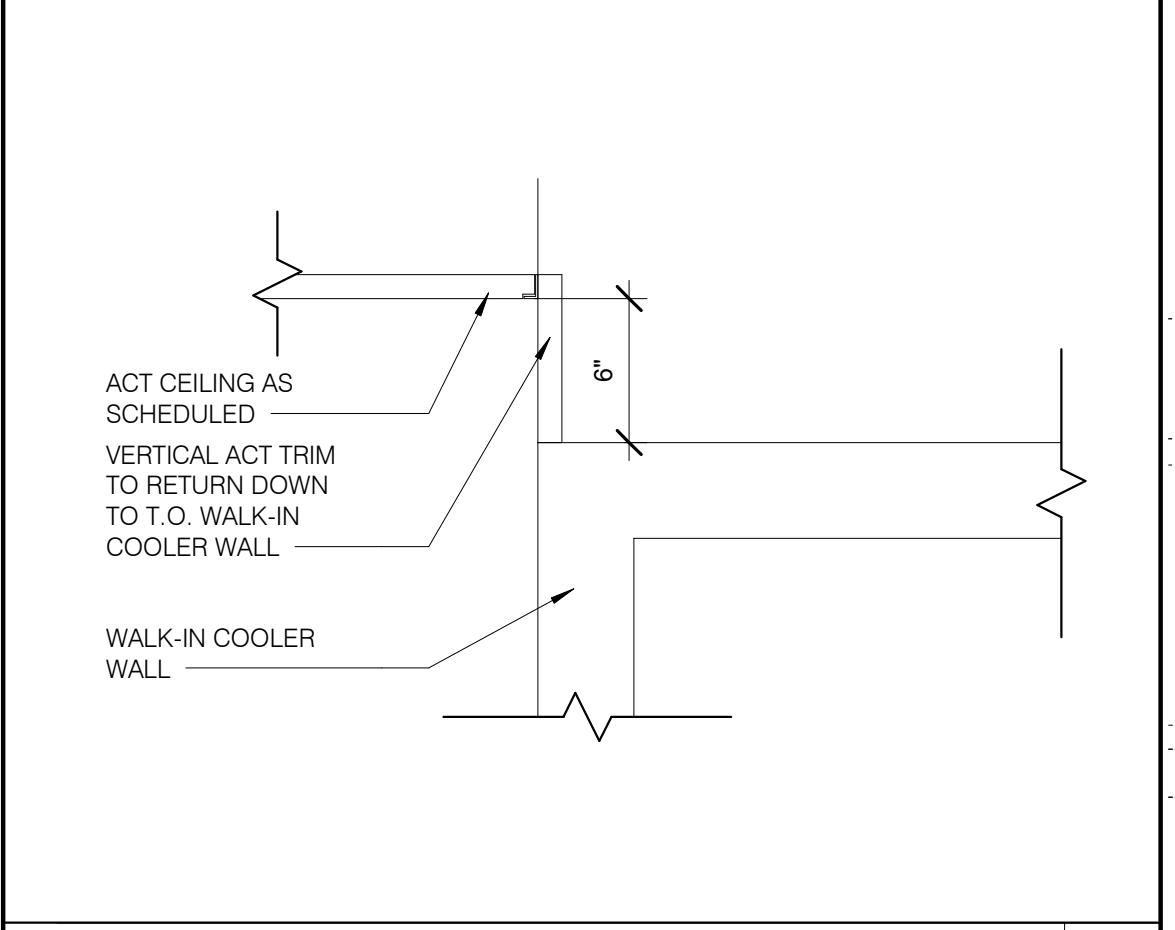
MENU BOARD MOUNTING DETAIL N.T.S. **5**

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

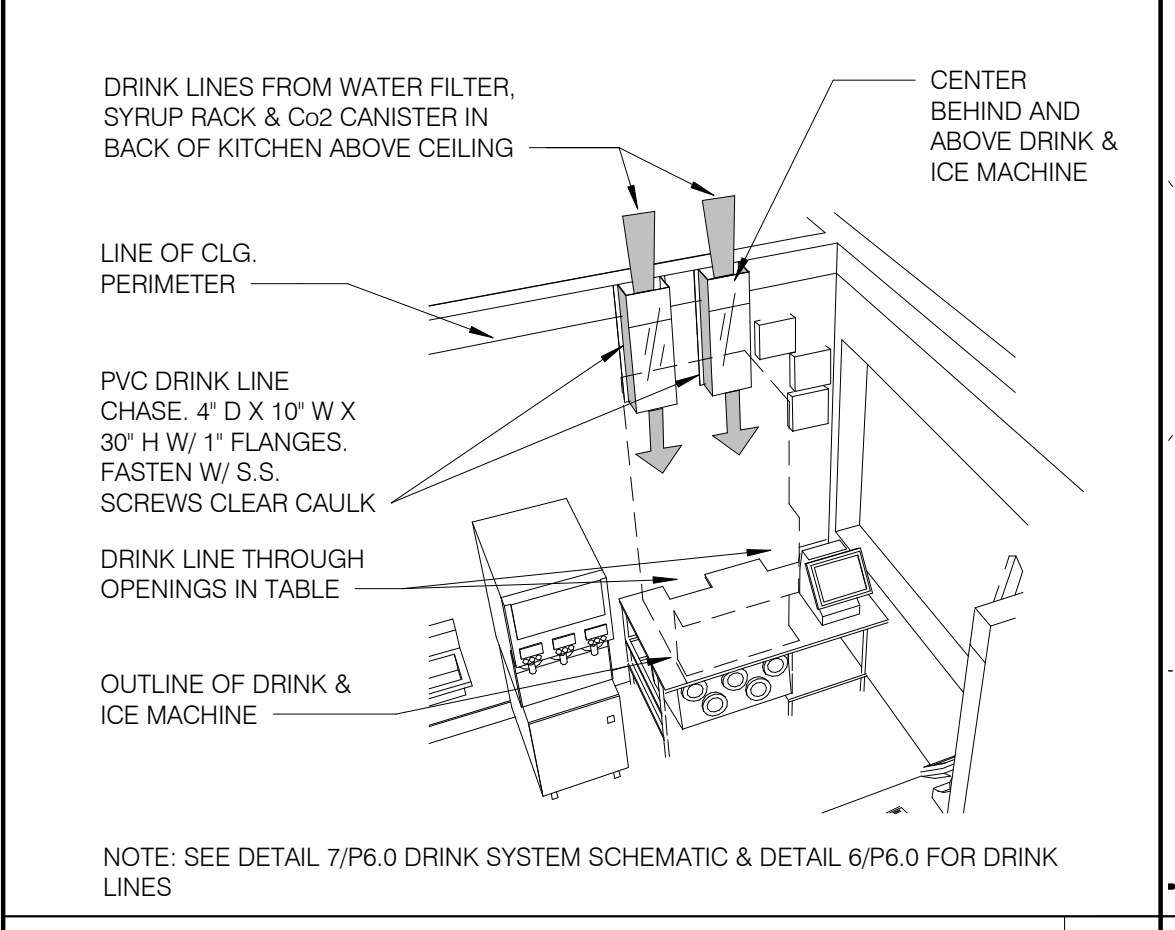
CELIUME DTL @ RECESSED FIXTURE N.T.S. **3**

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

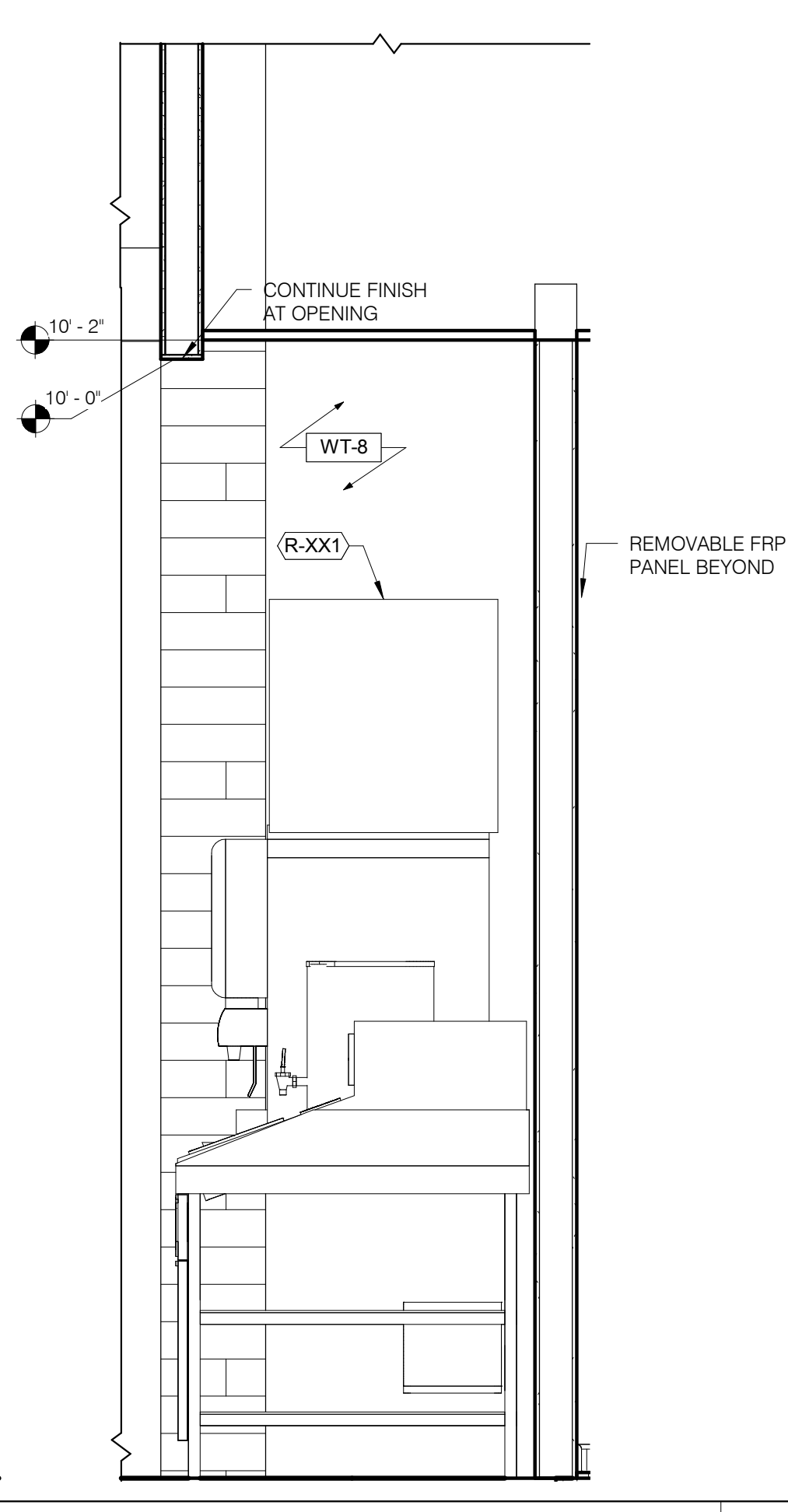
SYRUP LINE IN CEILING N.T.S. **1**



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**

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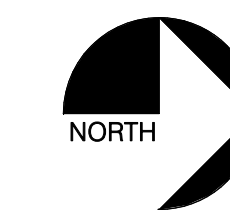
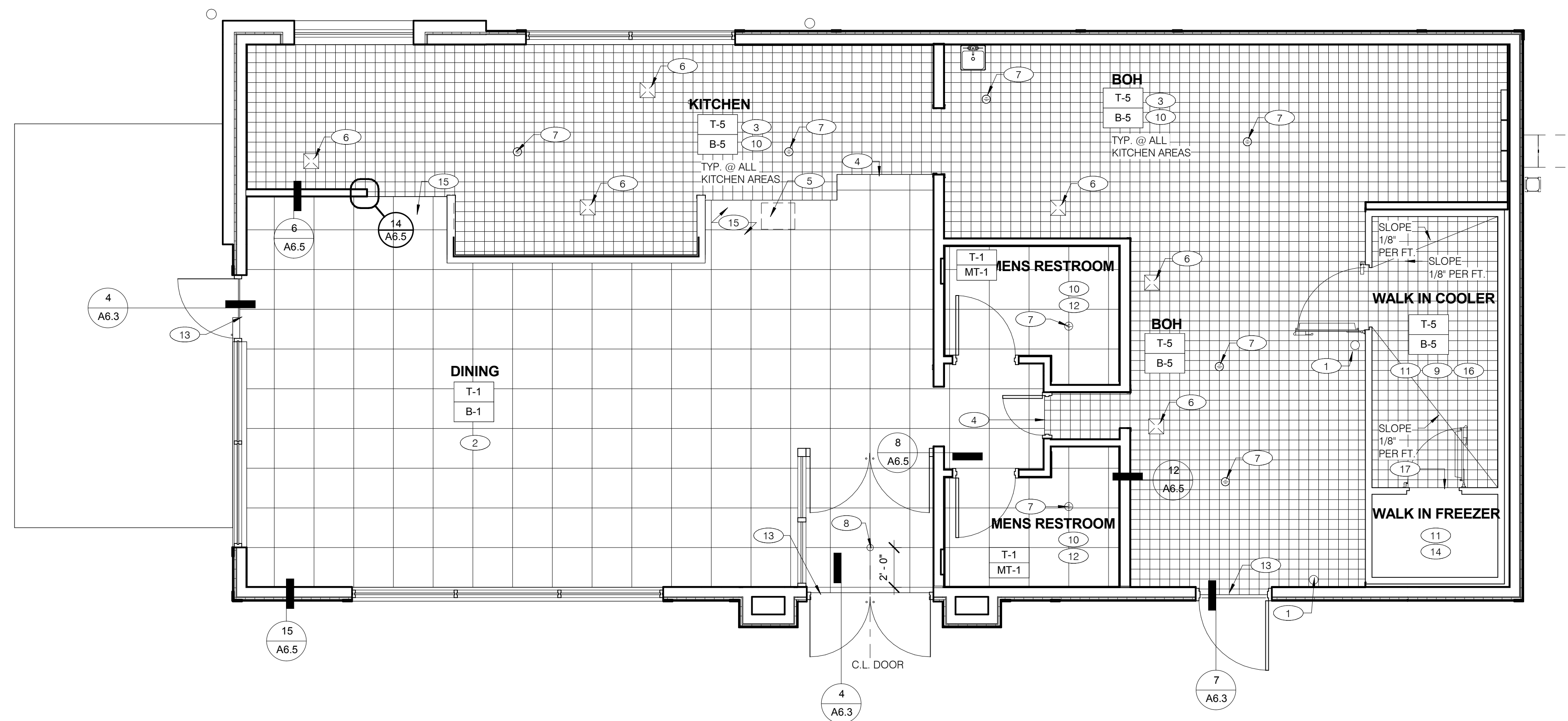


TACO BELL
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OPEN KITCHEN
MODERN EXPLORER

MISCELLANEOUS

A6.6

PLOT DATE: 5/30/2018 3:17:10 PM



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

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TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066



T40
OPEN KITCHEN
MODERN EXPLORER

FLOOR FINISH PLAN

A7.0

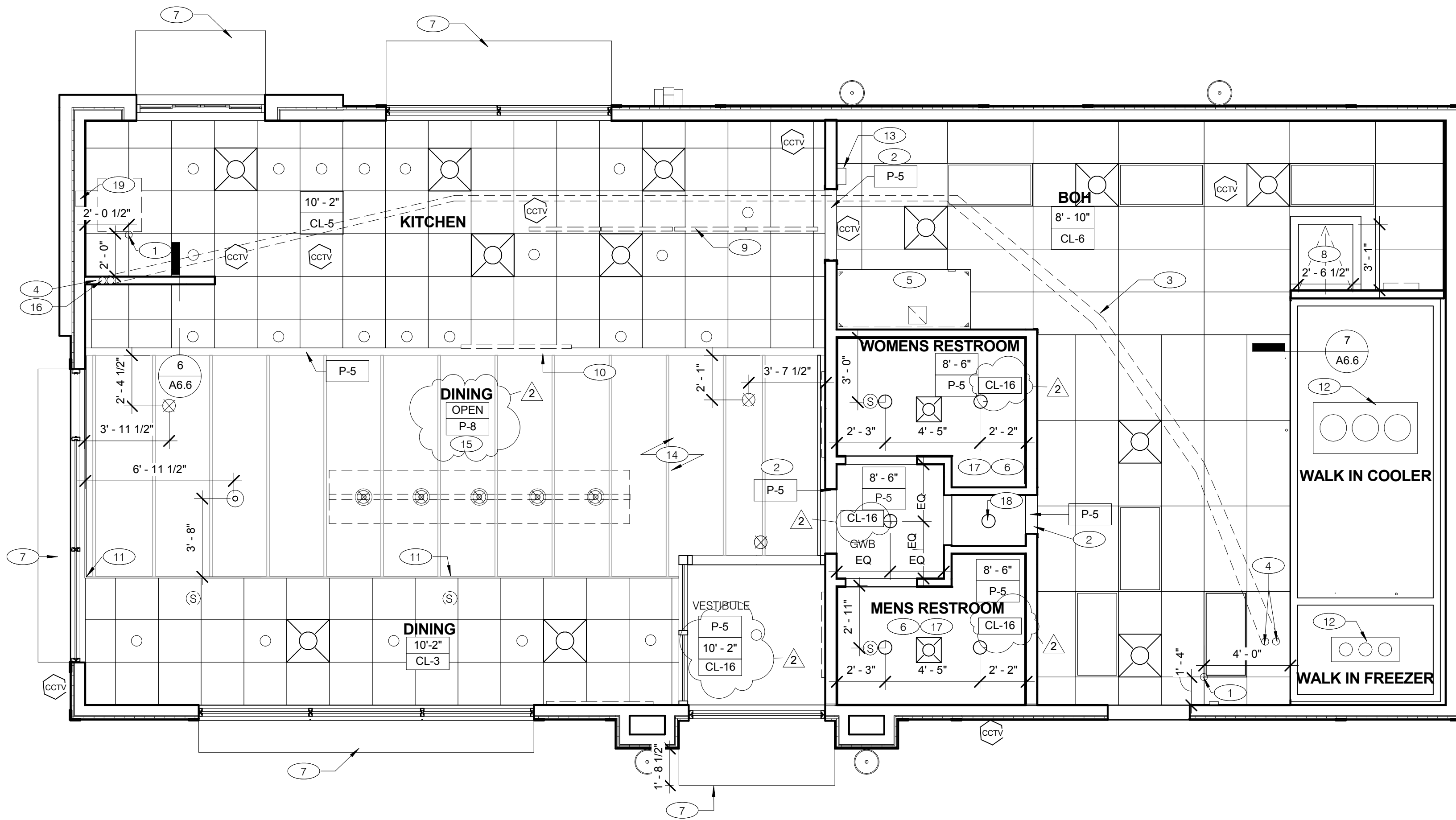
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- A. □ DENOTES FINISH MATERIAL. REFER TO SHT A7.2 FOR FINISHES.
- B. TILE JOINTS (J.O.N.):
 1. PORCELAIN FLOOR TILE : 3/16"
 2. GLAZED WALL TILE : 1/8"
 3. BASE, TRIM AND ACCESSORIES : MATCH ADJOINING TILE UNITS
- C. TILE INSTALLATIONS REQUIRE MANUFACTURERS 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**



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| 2 | 06/14/18 | BULLETIN 2 |
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CONTRACT DATE: 01.08.18
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 BRAND DESIGNER:
 SITE NUMBER: 312262/442877
 STORE NUMBER: 2016088.09

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 REGULAR TILES SHALL BE ROUTED.

CEILUMS 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**

TACO BELL
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TACO BELL
 T40
 OPEN KITCHEN
 MODERN EXPLORER

REFLECTED CEILING PLAN

A7.1

PLOT DATE: 6/18/2018 3:41:47 PM



Main specification table with columns: QTY, MANUFACTURER, TYPE, COLOR, SIZE, GROUT, Comments, ALTERNATE MANUFACTURER, ALTERNATE COLOR. Includes sections for CEILING, CHAIR RAIL, FLOOR BASE, FLOORING, LAMINATE, METAL TRANSITION, PAINT, and WALL TILE.

ROOM SCHEDULE table with columns: Name, Floor Finish, Base Finish, Wall Finish, Accent Wall, Ceiling Finish, CEILING HEIGHT, Comments. Lists rooms like BOH, DINING, KITCHEN, etc.

- FINISH NOTES section containing numbered items 1-9 detailing installation and material requirements for FRP, steel wall, paint, and tile.

CONTACTS section with 'FINISH LEGEND' header and contact information for various suppliers like EUROWEST, NATIONAL METAL SHAPES, ROCA TILE GROUP, etc.

Revision table with columns for date, description, and author. Shows revisions 01, 02, and 03.

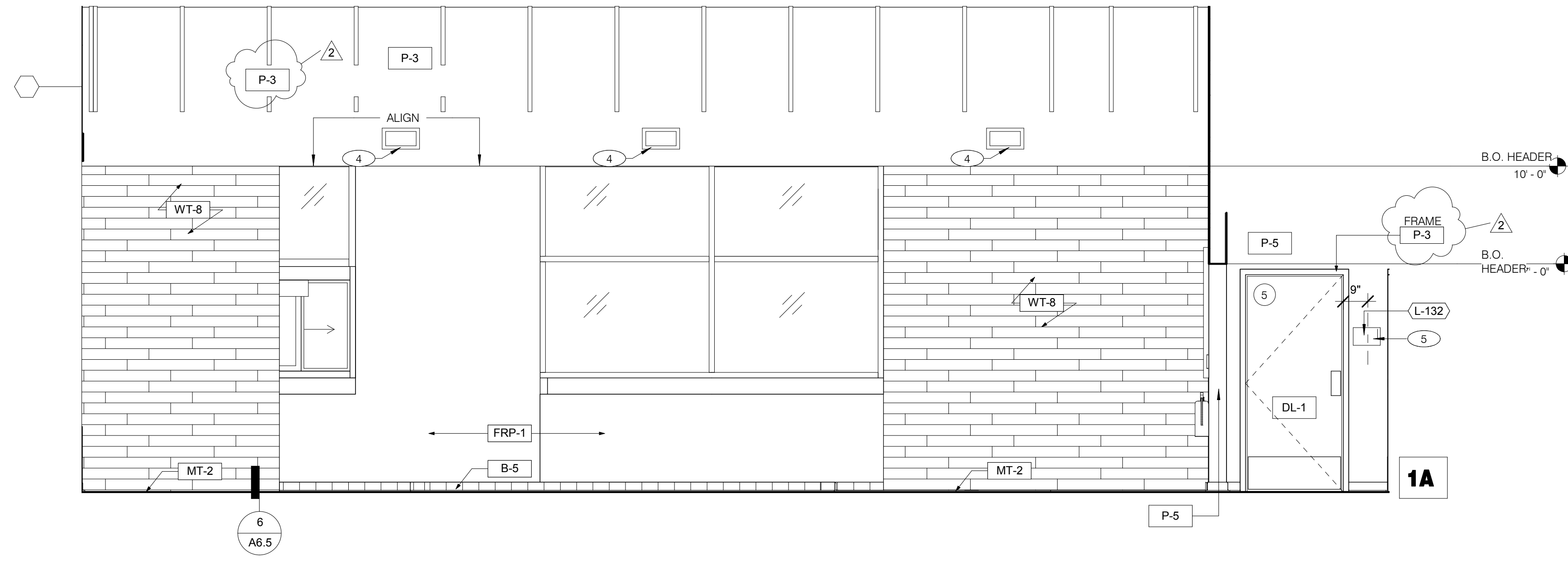
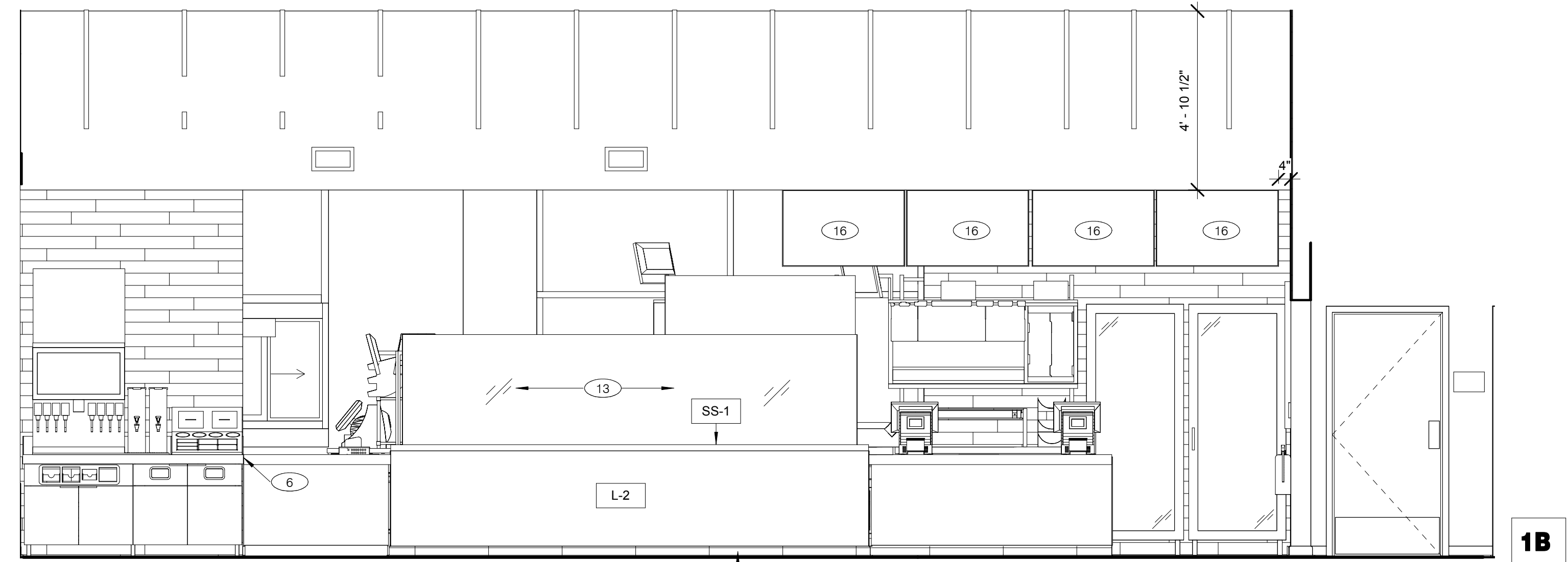
CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 E. 13 MILE RD.
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FINISH LEGEND AND SCHEDULE

A7.2



- 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
- 16 MENU BOARD - LG43"

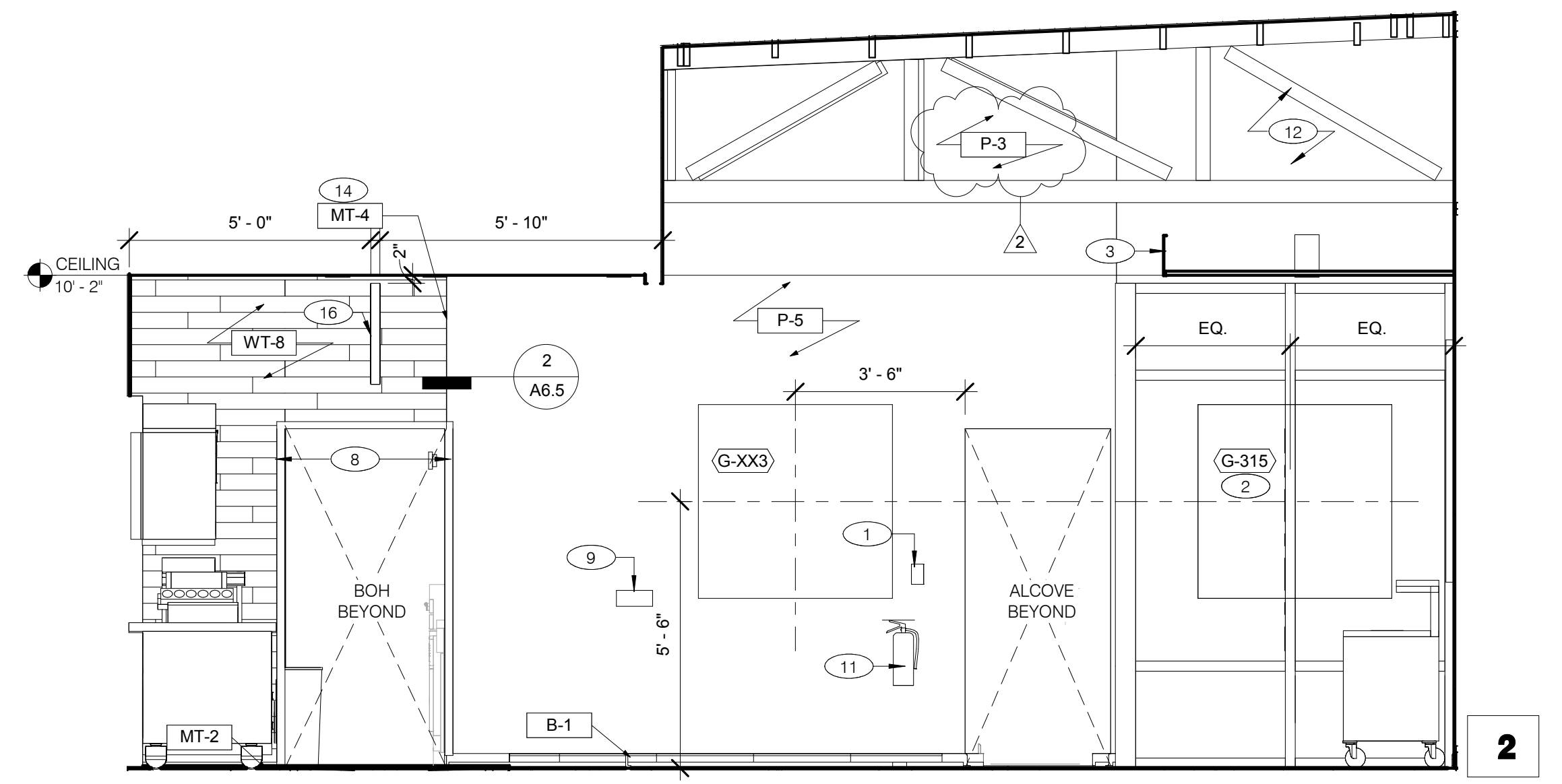
NOT ALL KEY NOTES APPEAR ON THIS SHEET. SEE SHEET A8.1 FOR ADDITIONAL ELEVATIONS.

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

KEY NOTES

A



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

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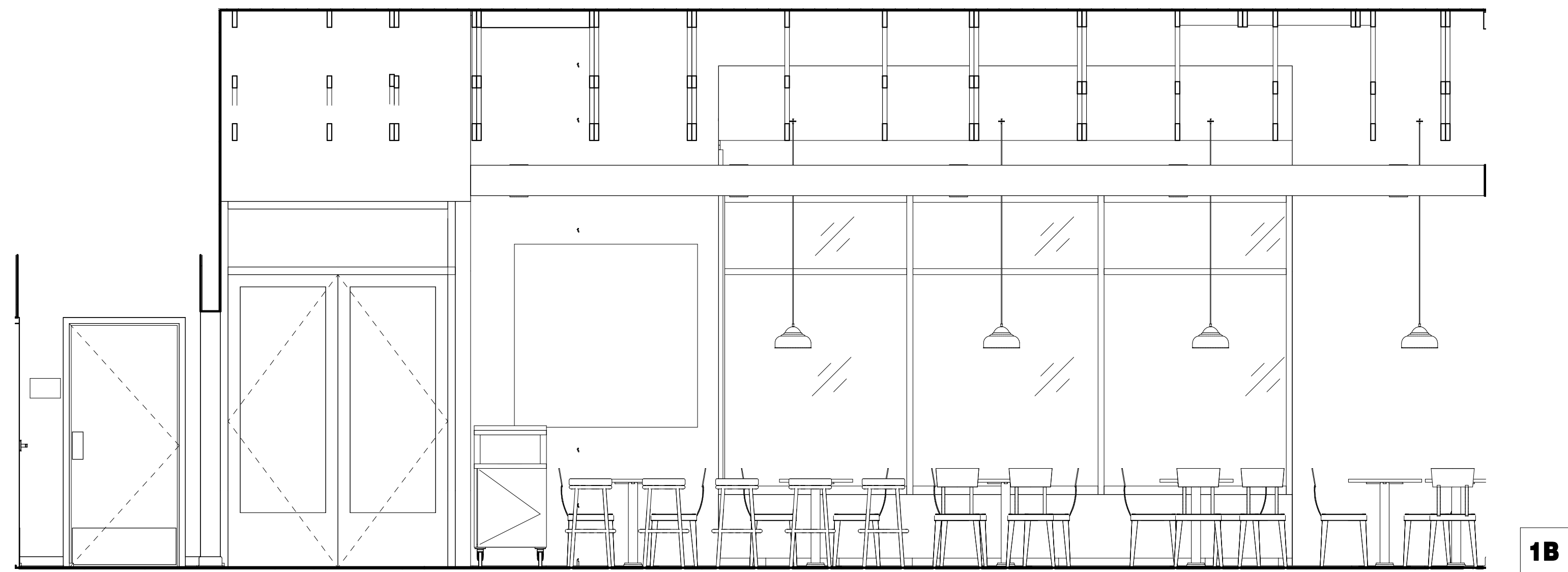
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TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

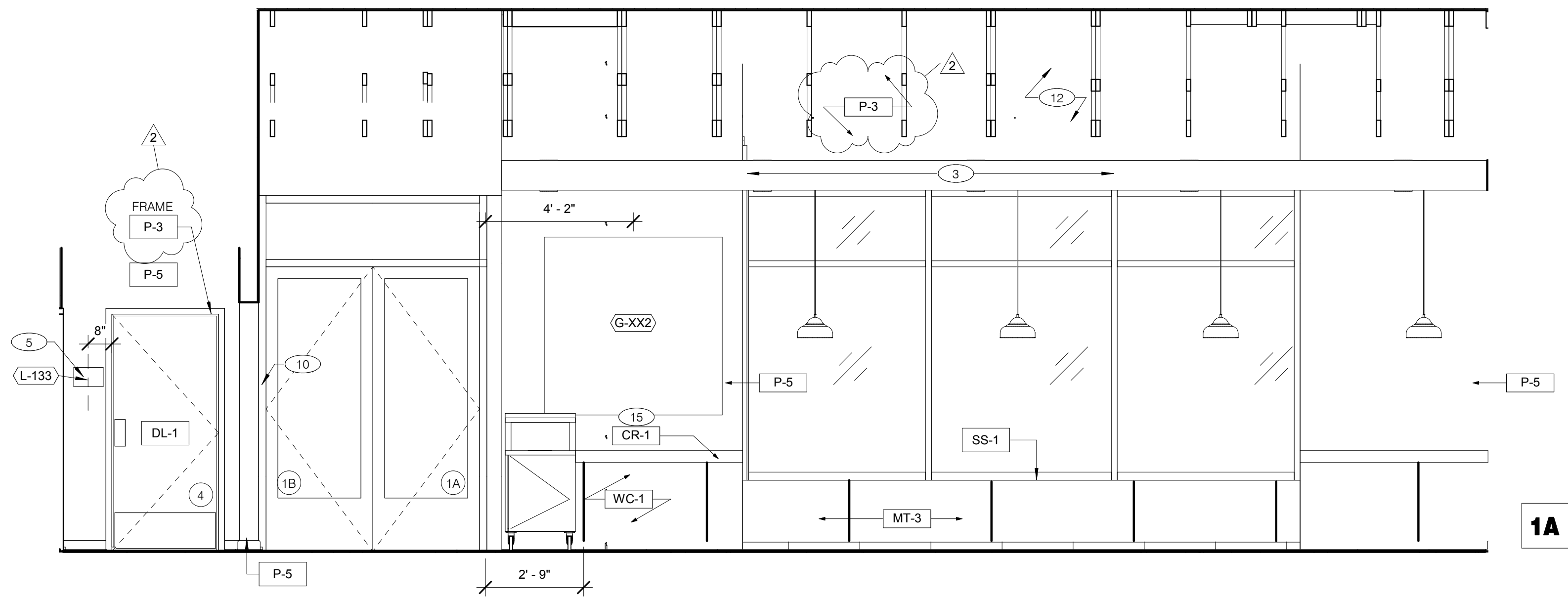
INTERIOR ELEVATIONS DINING ROOM

A8.0

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SEE SHEET A8.0 FOR KEY NOTES

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

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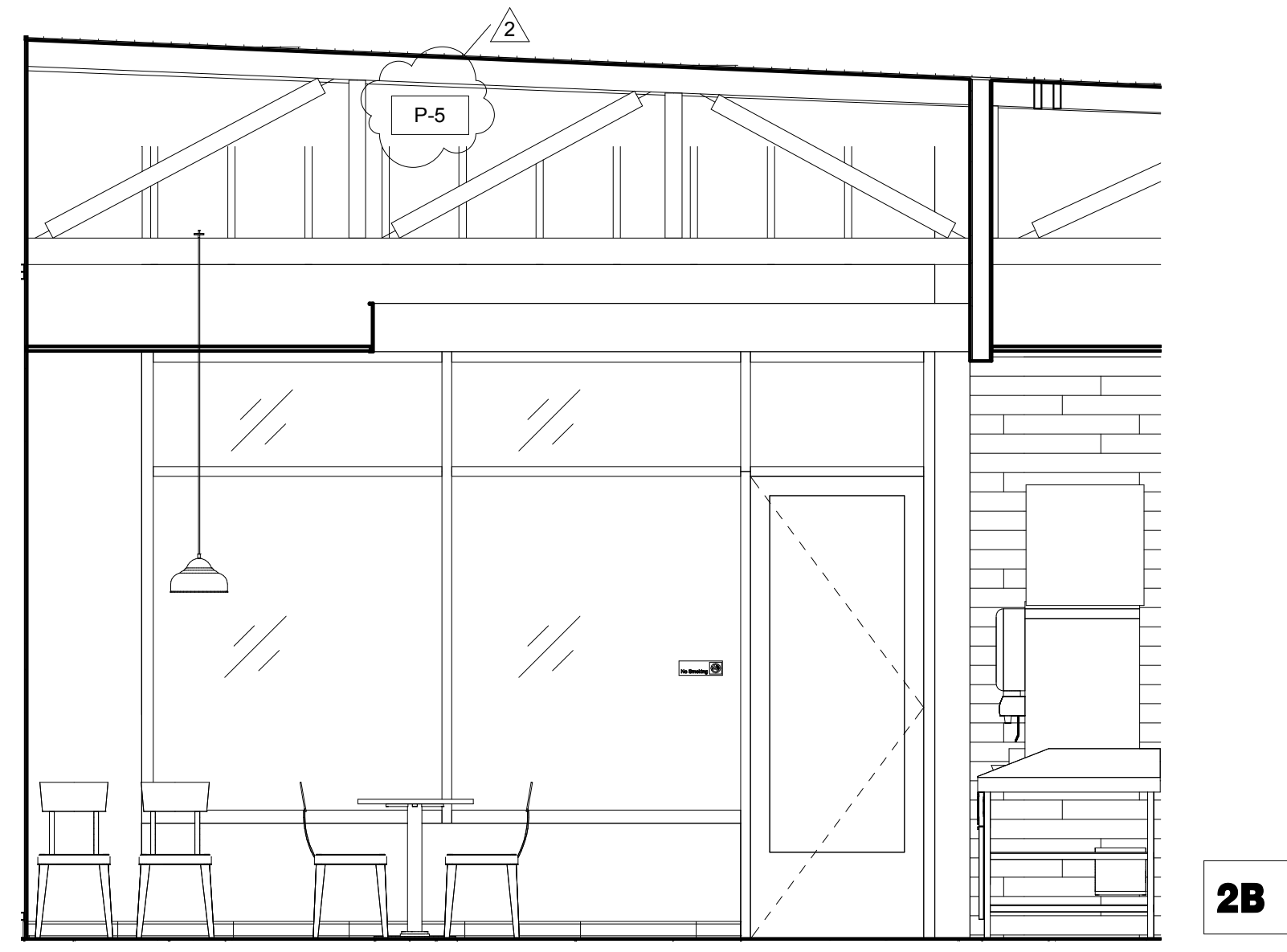
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T40
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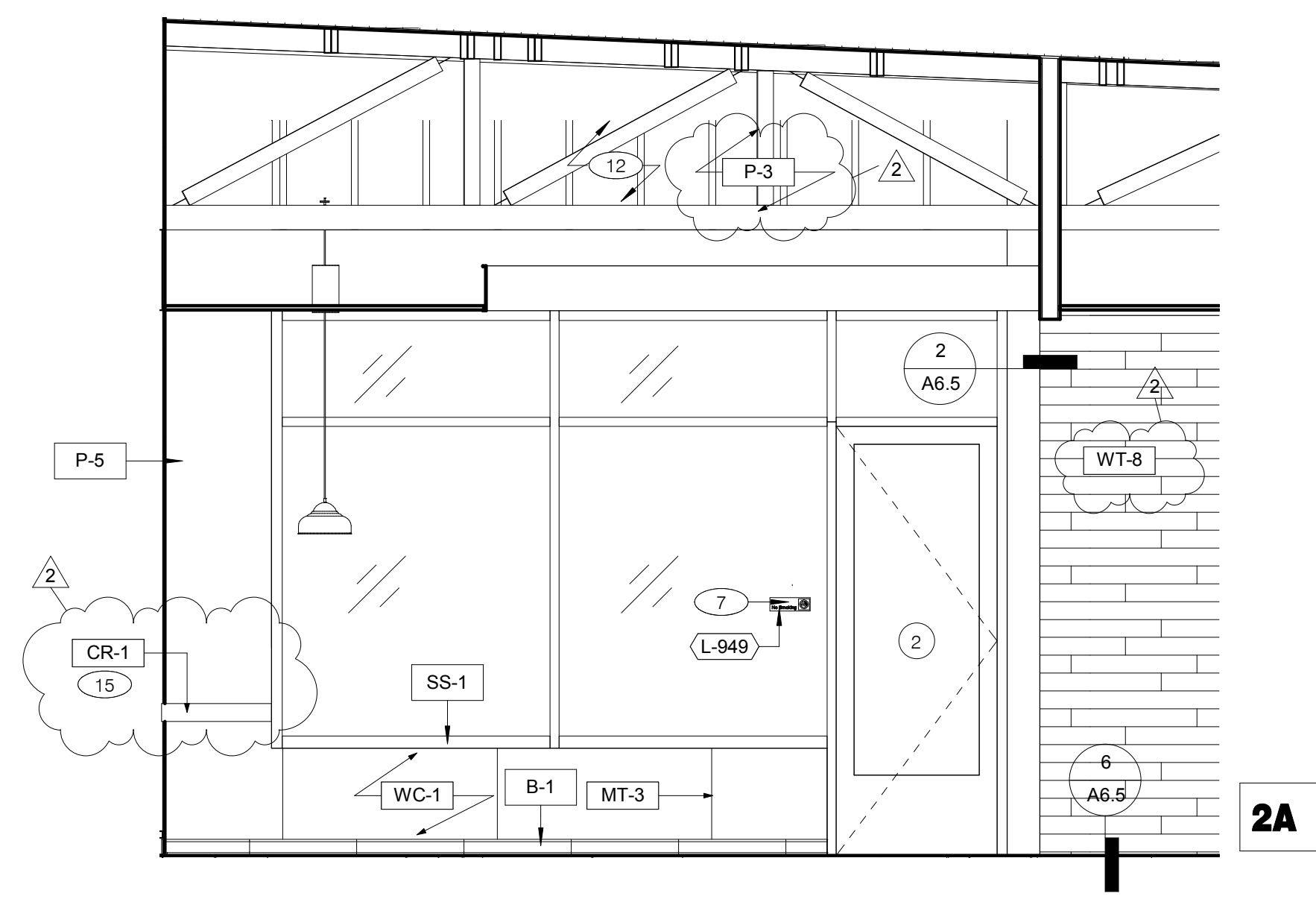
INTERIOR ELEVATIONS DINING ROOM

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2B



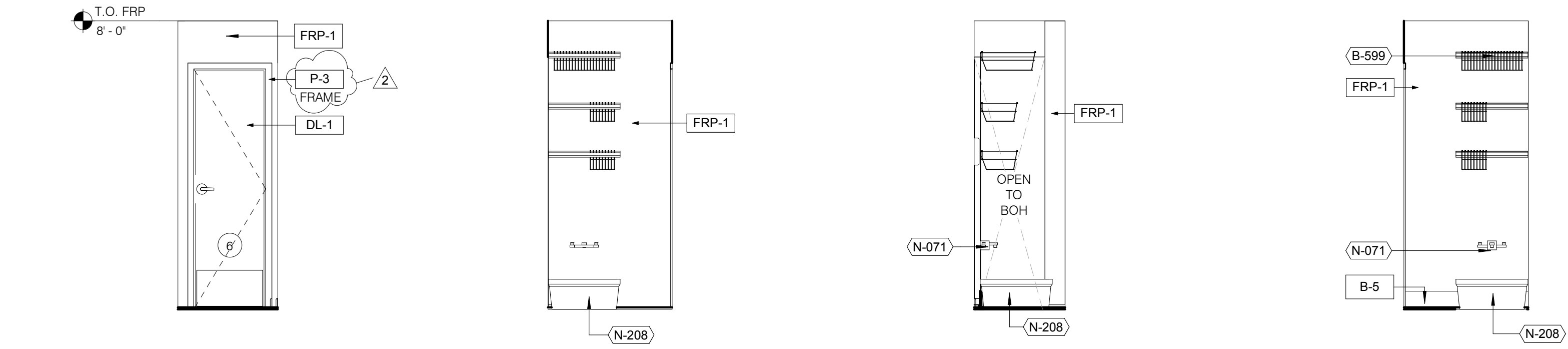
2A

SEE SHEET A8.0 FOR KEY NOTES

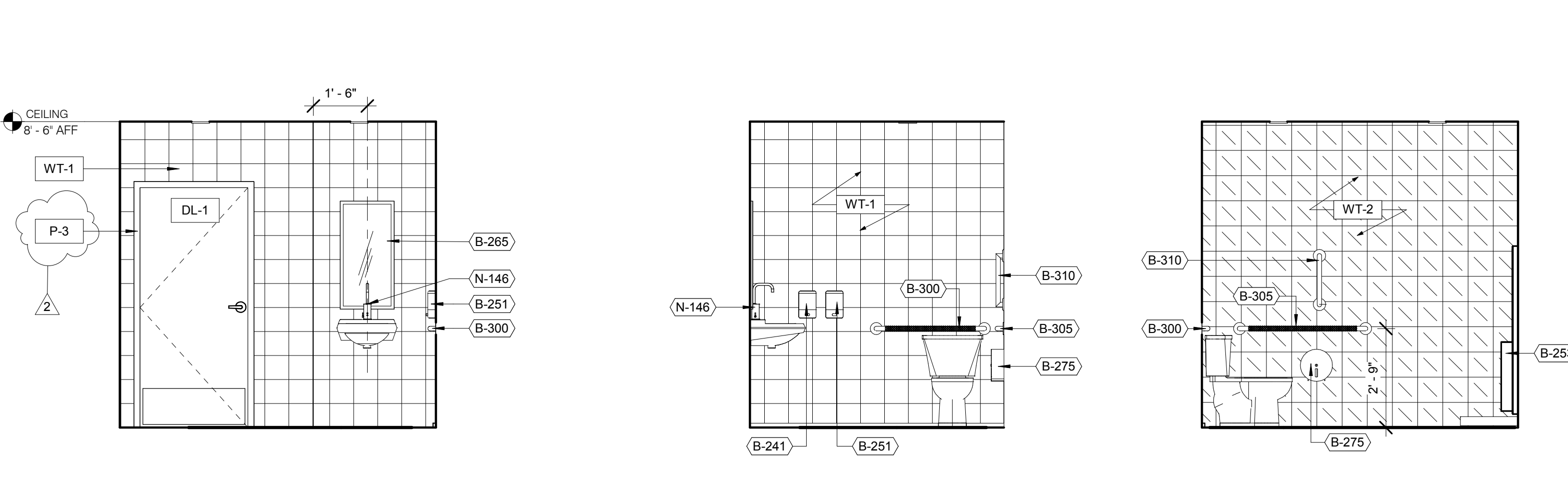
DINING 3/8" = 1'-0" **2**

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.

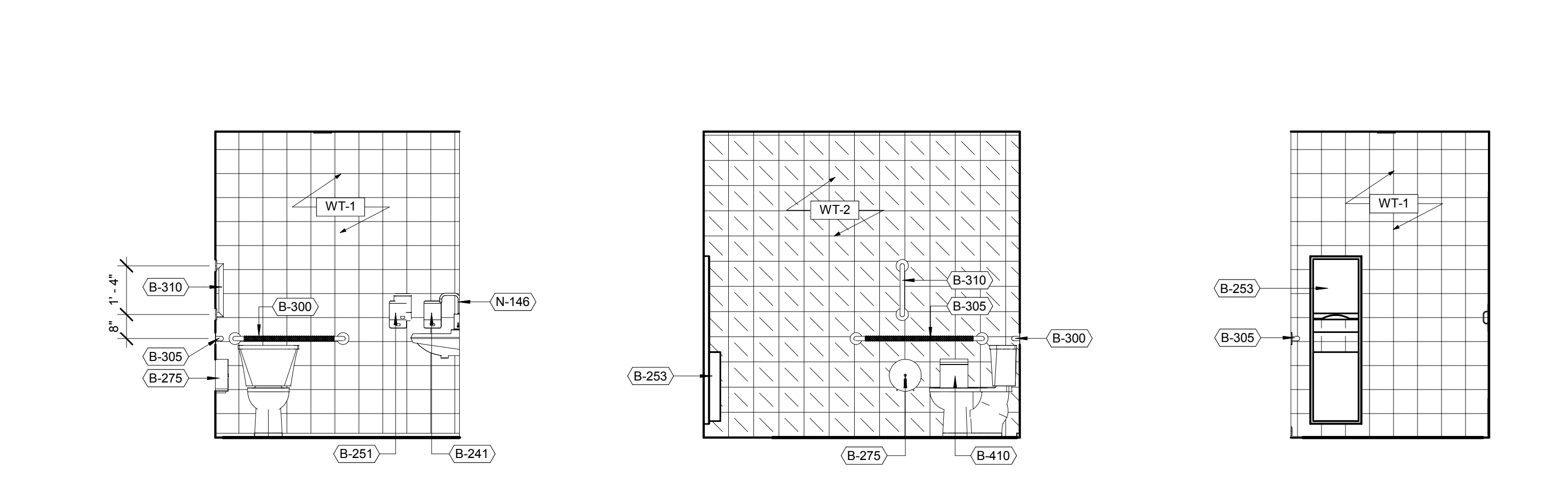
*ABSOLUTE DIMENSIONS



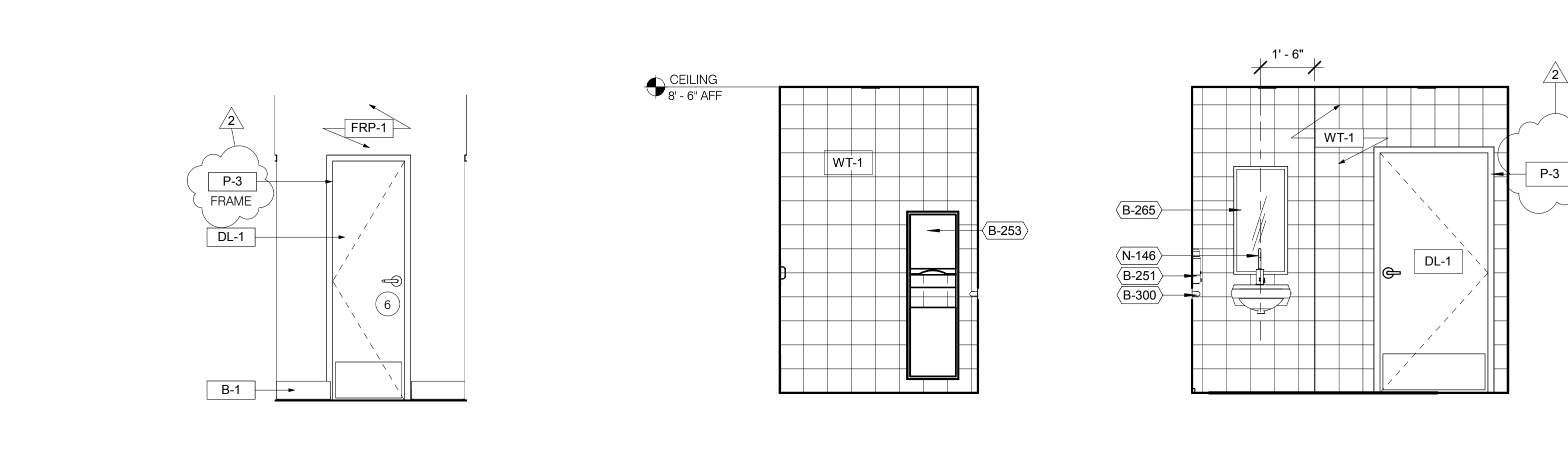
MOP SINK ROOM 3/8" = 1'-0" **4** **MOP SINK ROOM** 3/8" = 1'-0" **3** **MOP SINK ROOM** 3/8" = 1'-0" **2** **MOP SINK ROOM** 3/8" = 1'-0" **1**



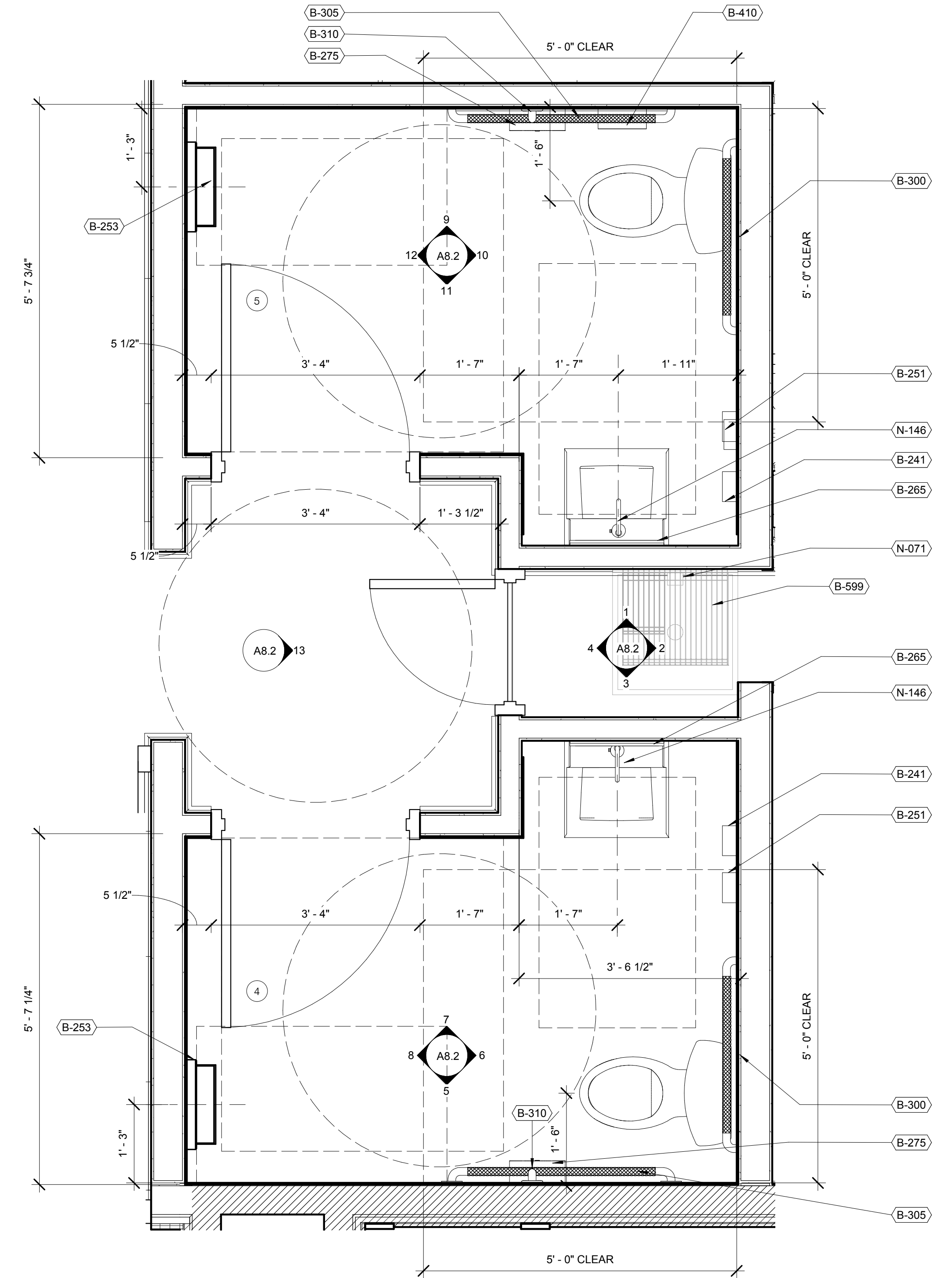
MENS RESTROOM 3/8" = 1'-0" **7** **MENS RESTROOM** 3/8" = 1'-0" **6** **MENS RESTROOM** 3/8" = 1'-0" **5**



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**

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| 2 | 06/14/18 | BULLETIN 2 |
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SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

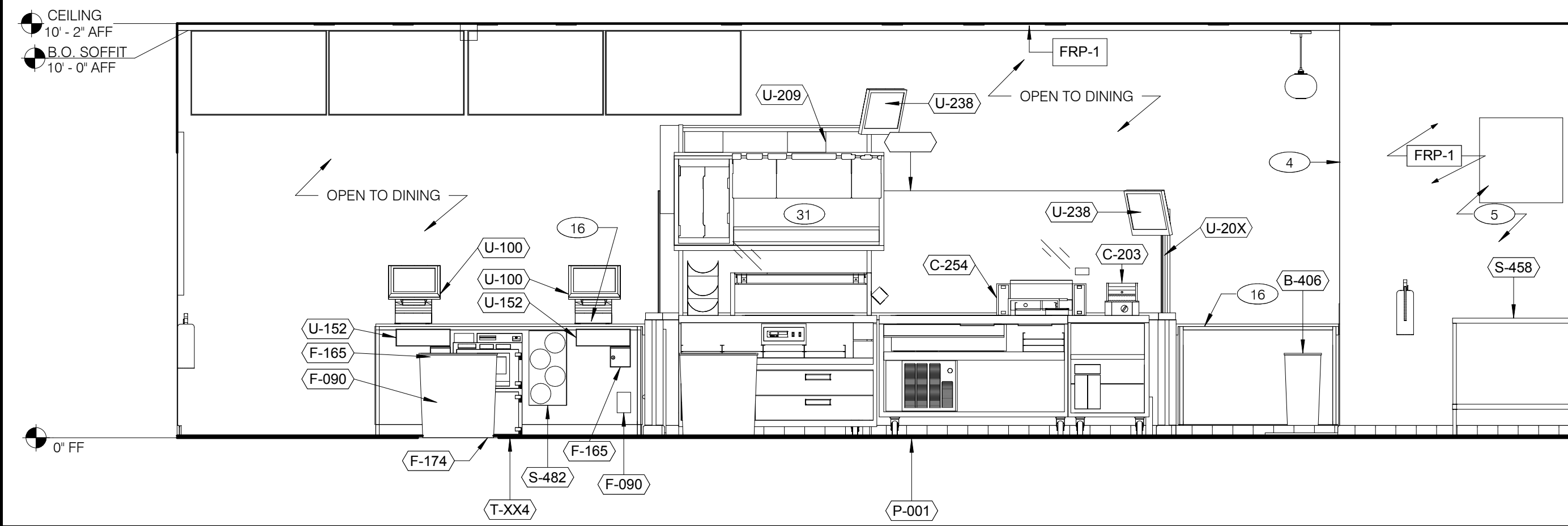
TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

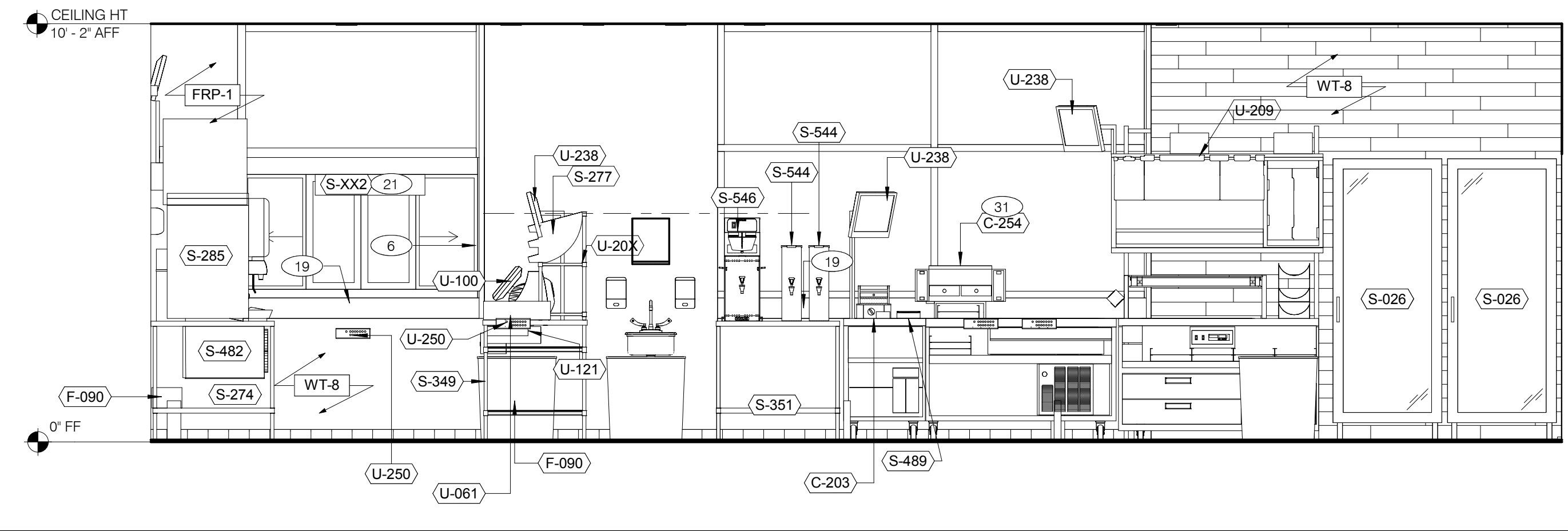
**INTERIOR ELEV.
ENLARGED
RESTROOMS**

A8.2

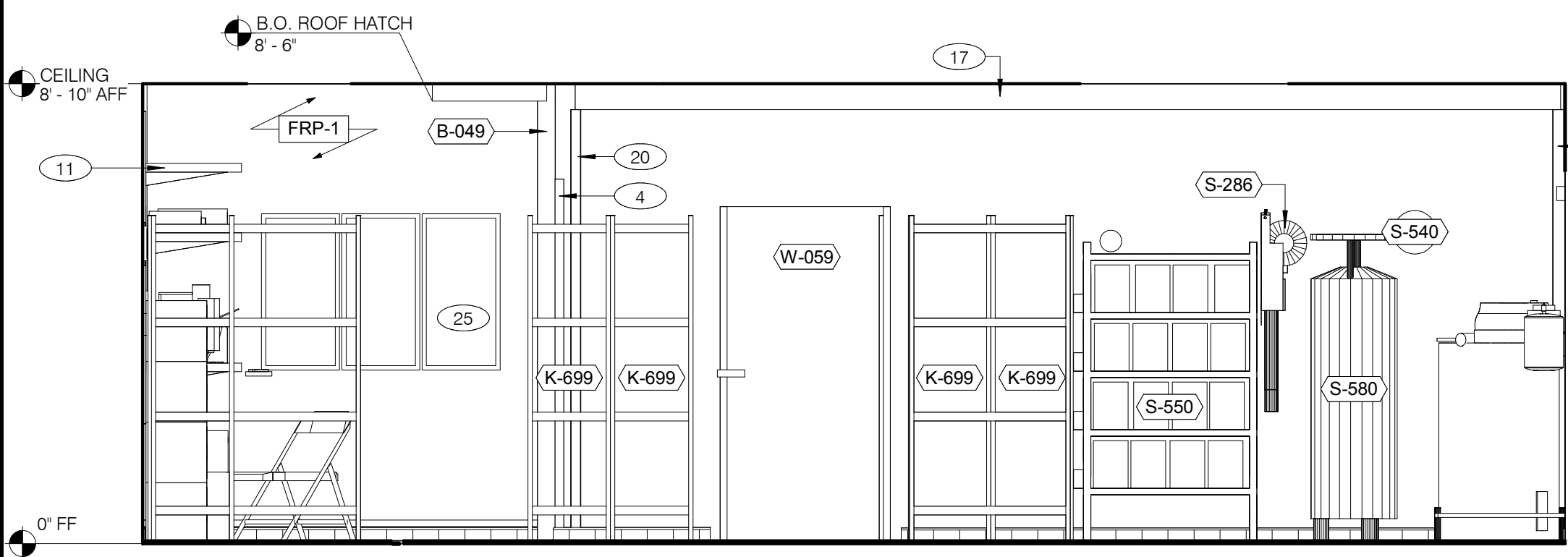
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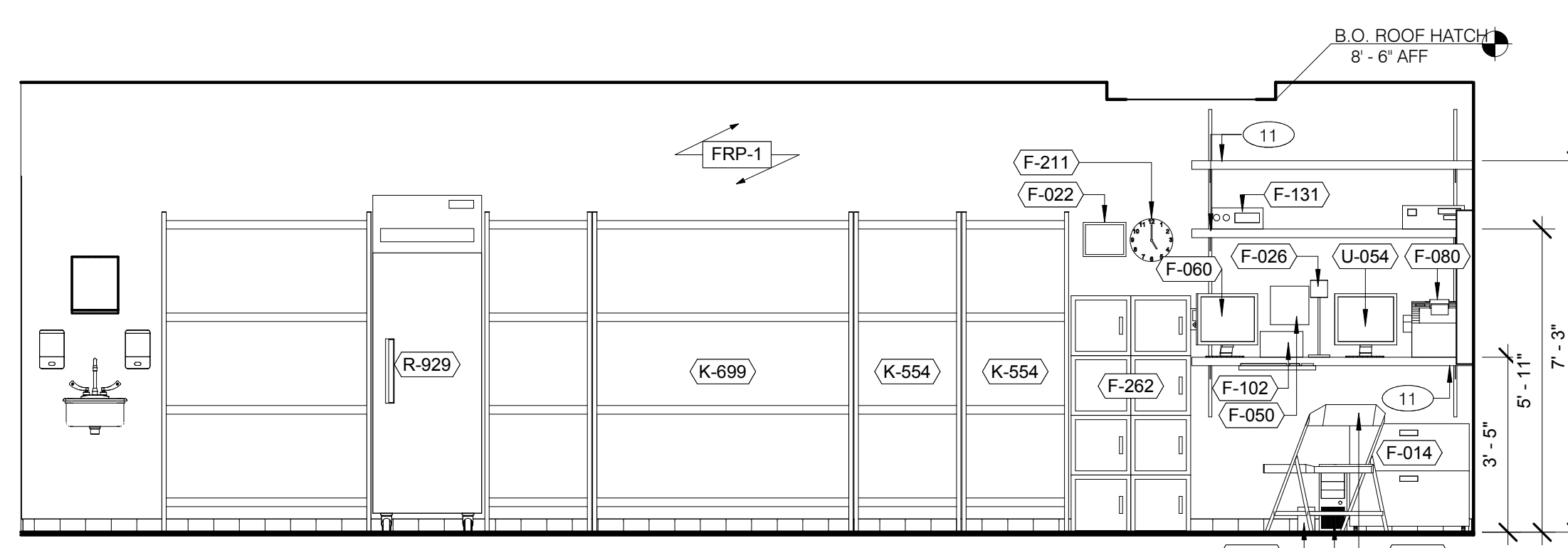
DRIVE-THRU / PREP 3/8" = 1'-0" **2**



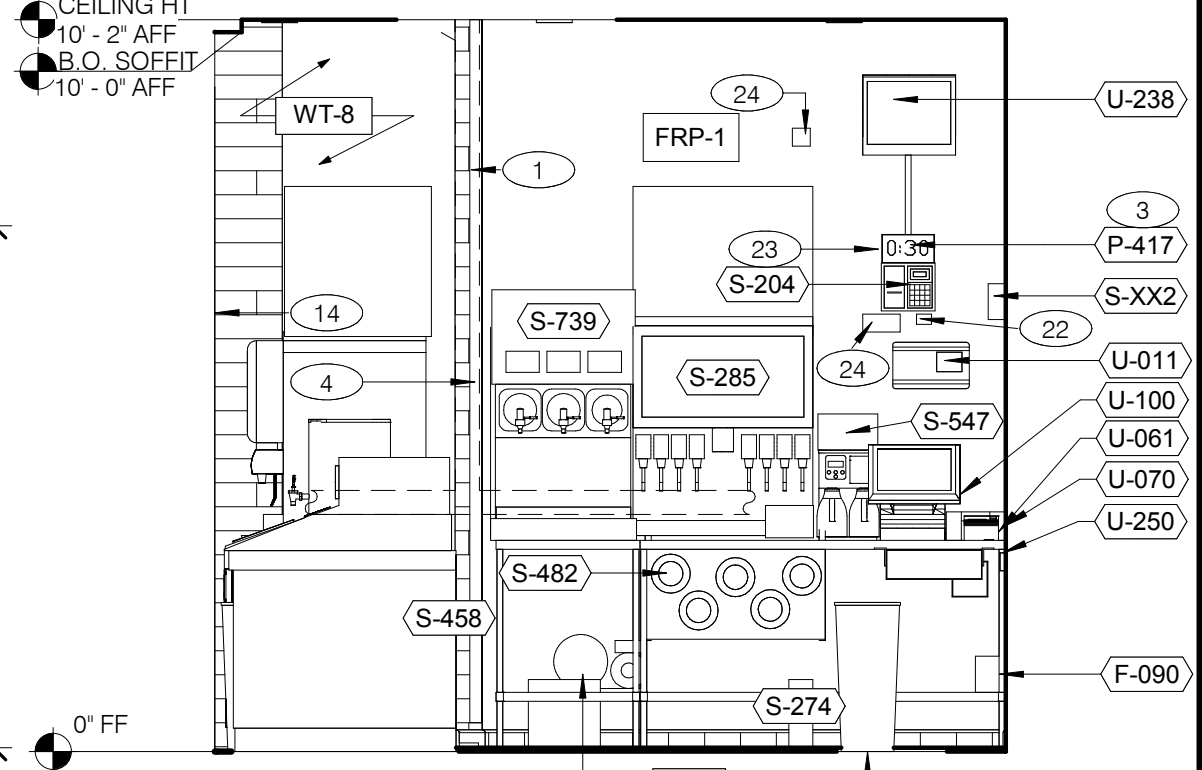
DRIVE-THRU / PREP 3/8" = 1'-0" **1A**



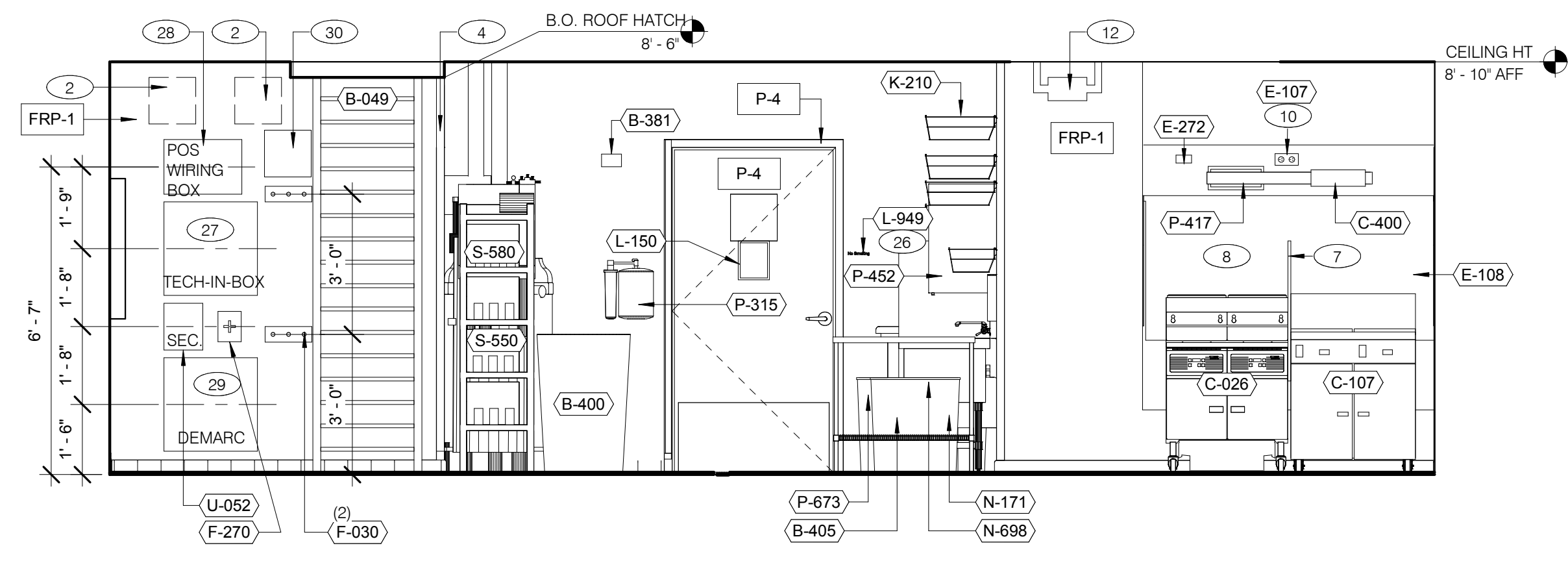
DRY STORAGE / UTILITY / OFFICE 3/8" = 1'-0" **5**



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

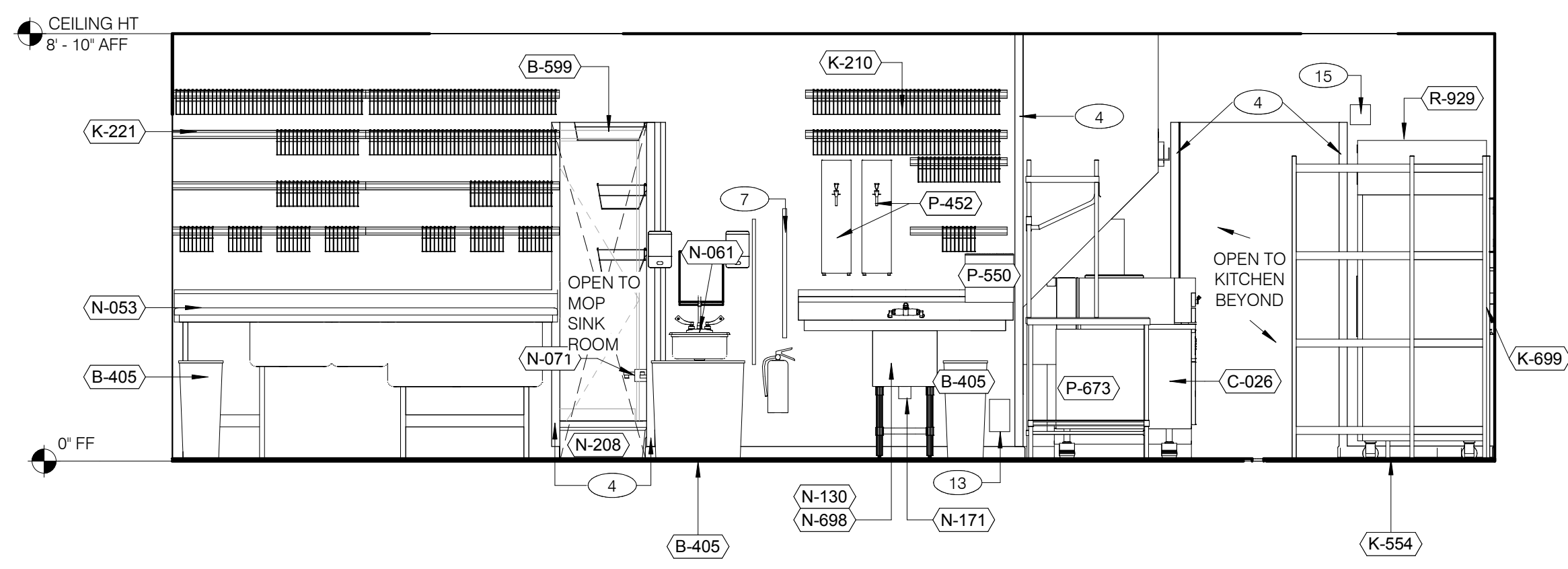


DRIVE-THRU 3/8" = 1'-0" **3**



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

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



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

KEY NOTES **A**

| | |
|----------|-------------------|
| 05/31/18 | JFC |
| 04/20/18 | BUILDING COMMENTS |
| 02/19/18 | ISSUED FOR PERMIT |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

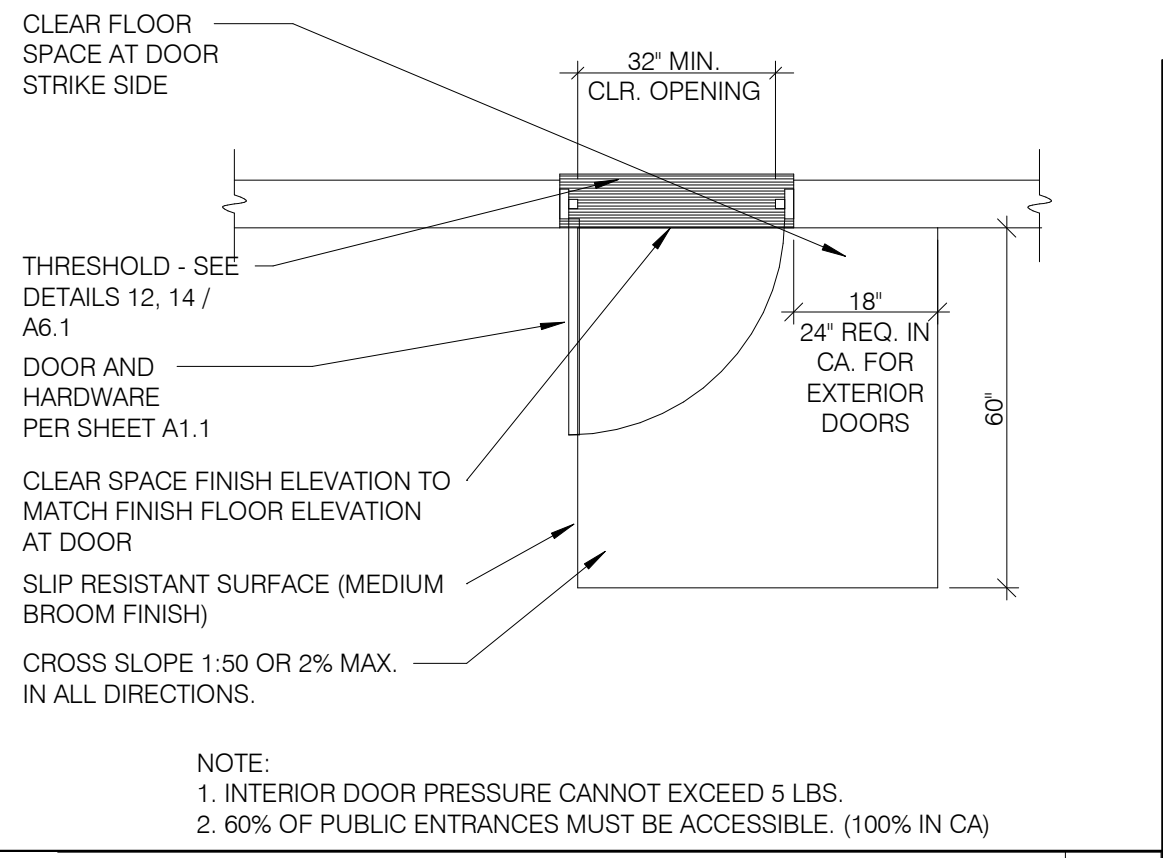
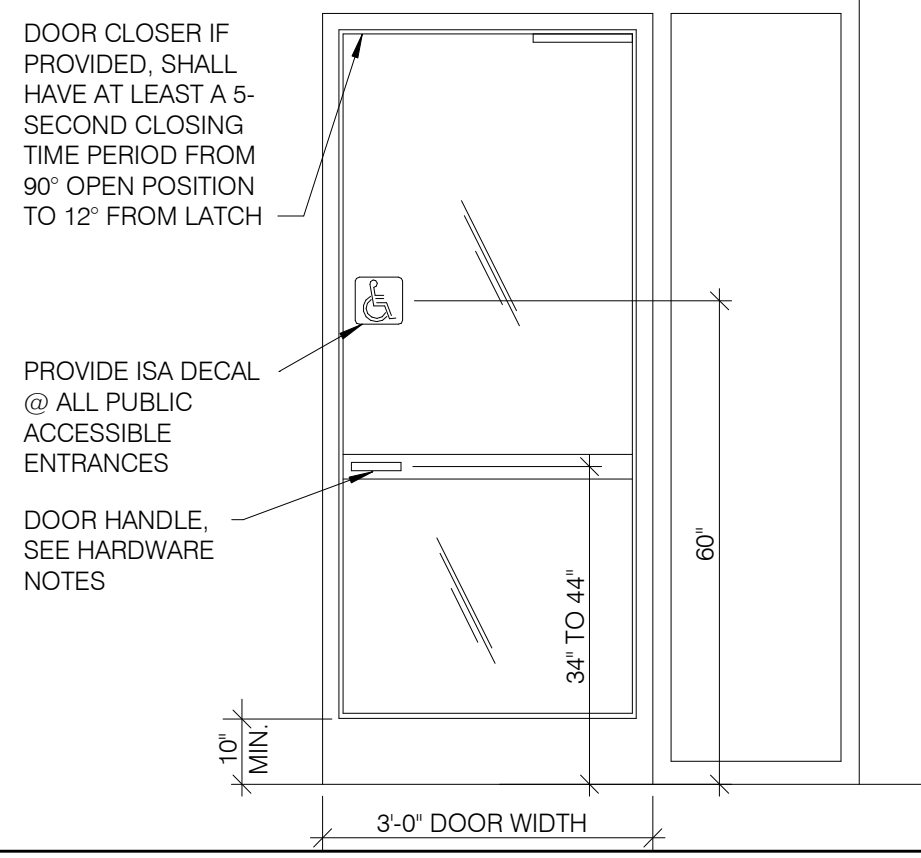
TACO BELL
20779 E. 13 MILE RD.
ROSELVILLE, MI 48066

TACO BELL
T40
OPEN KITCHEN
MODERN EXPLORER

INTERIOR ELEVATIONS KITCHEN

A8.3

PLOT DATE: 5/30/2018 3:17:37 PM

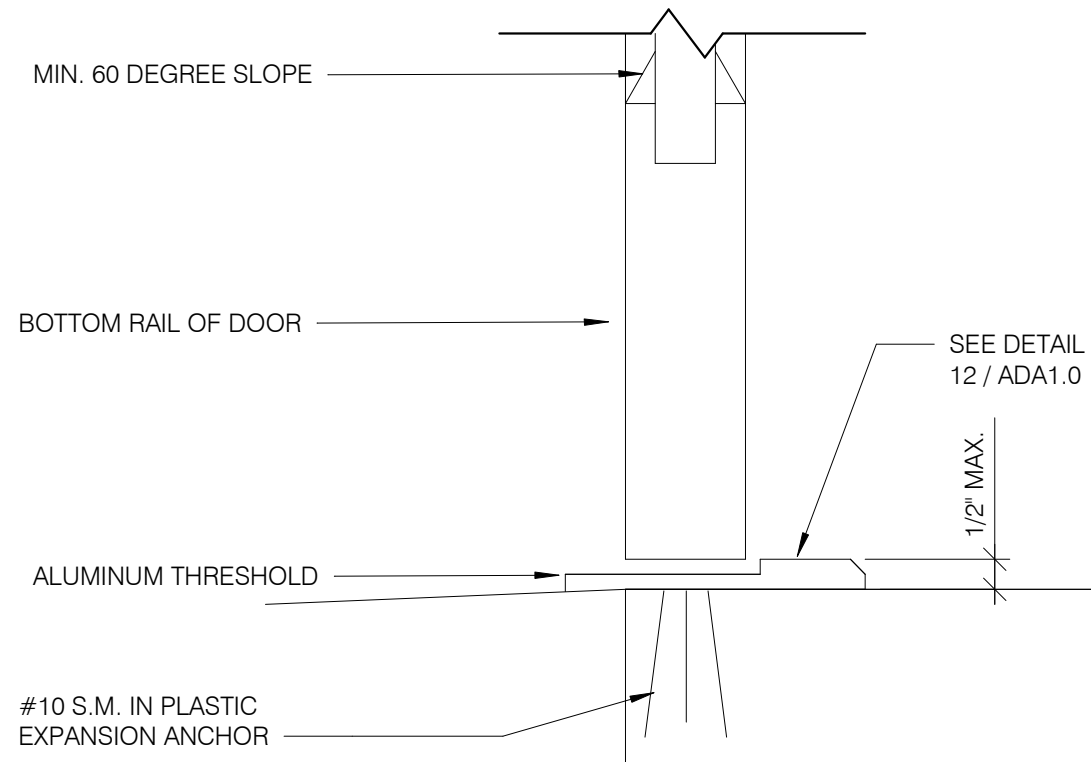


TYP. ENTRANCE / EXIT DOOR 12' = 1'-0"

9

EXTERIOR DOOR REQUIREMENT 12' = 1'-0"

6



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

7

| | | |
|---|----------|-------------------|
| | 05/31/18 | IFC |
| A | 04/20/18 | BUILDING COMMENTS |
| | 02/19/18 | ISSUED FOR PERMIT |
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CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312262/442877
 STORE NUMBER: 2016088.09

TACO BELL
 20779 E. 13 MILE RD.
 ROSEVILLE, MI 48066

TACO BELL
 T40
 OPEN KITCHEN
 MODERN EXPLORER

ACCESSIBILITY REQUIREMENTS

ADA1.1

| 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 | - | DIS | 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 | P6YUC6STDUSV1S; P6YOCSSTDUSEN1S | - | DIS | DIS | GC (see Scope of Work notes) | |
| | | Hyperactive | TDMHX2H01TCB;TDMHX1H26 | L-090 | | | | |
| | | Texas Digital | AVNGE60 | L-095 | | | | |
| 11300-2 | Drive-thru Speaker & Microphone | HME | C400005HS3TB; C11422TB | U-011; S-204 | DIS | Manufacturer | GC | |
| | | 3M Food Services Trad Dept | 78691149153; G55HSSINGLE | - | | | | |
| 11300-4 | Order Confirmation Board (OCB) Canopy | Everbrite | 823NI6INX4X9CPY | 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 | - | | | | |
| 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; | Determine by CM or RCM; | Determined by GC / CM / RCM | X |
| | | Melink Corp/ | - | - | Approved options - GC | Approved options - GC | | |
| | | Air Care Experts | - | - | CM/RCM | options - GC CM/RCM | | |
| 15700-1 | HVAC | Trane (Company stores) | VARIES | - | GC | Manufacturer | GC | X |
| | | 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 |
| 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) | |
| 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 | - | - | | | | |



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066



OPEN KITCHEN
MODERN EXPLORER

SCOPE OF WORK
MATRIX

SW1.0
PLOT DATE: 5/30/2018 3:17:44 PM

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) | EER | INPUT STAGE (MBH) | OUTPUT (MBH) | HEATING STAGES | AFUE % | VOLTS/PH | MCA (A) | MCCP (A) | WEIGHT (LBS.) | MANUF. | MODEL | NOTES |
| RTU-1 | DINING | 2400 | 600 | 1.0' | 2 | 1095 | 6 | 77.2/57.9 | 12.0 | 108 | 86 | 2 | 80 | 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 | GRID SIZE | | | | | |
| 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 | #SVD30HFA | 2,4,7,8,9,10,11 | |
| EF-3 | 500 | 0.375 | 1075 | 1/4 | 120/1 | DIRECT | STRATOVENT | #SVD30HFA | 2,4,7,8,9,10,11,12 | |

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
- INTERLOCK WITH CO₂ SENSOR TO OPERATE UPON DETECTION OF CO₂.

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 |

NOTES:

- THE OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 25.0% FOR RTU-1 AND 21% FOR RTU-2. EF-3 OPERATES IN EMERGENCY NOT PART OF OUTSIDE AIR CALCULATIONS.

AIR BALANCE SCHEDULE CFM

4



| DATE | BY | COMMENTS |
|----------|-----|-------------------|
| 05/31/18 | JFC | |
| 04/20/18 | | BUILDING COMMENTS |
| 02.16.18 | | ISSUED FOR PERMIT |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

Taco Bell
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066

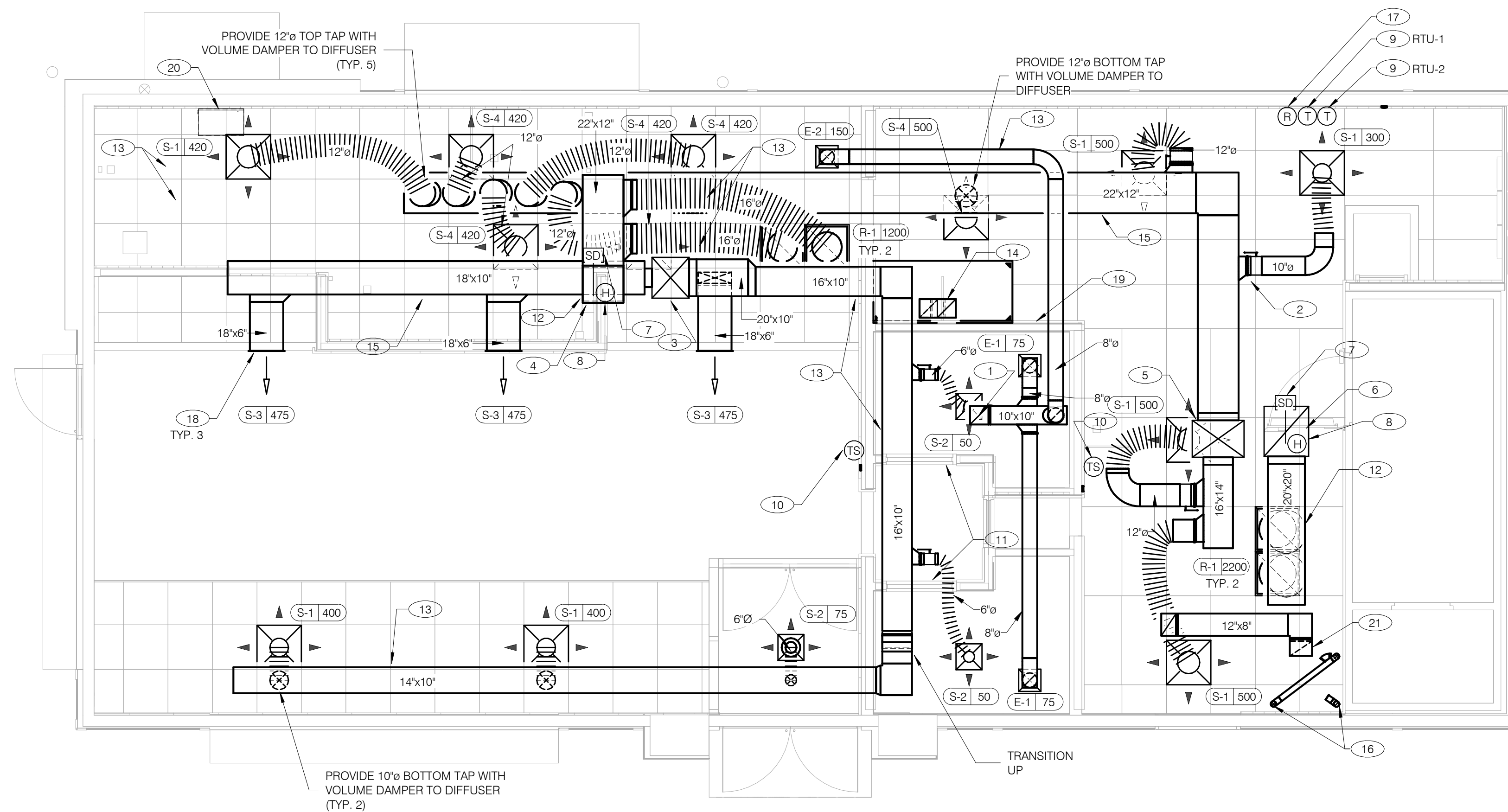


T40M-O
OPEN KITCHEN
MODERN EXPLORER

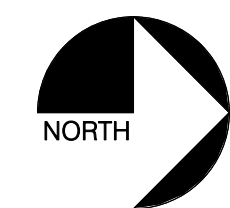
MECHANICAL SCHEDULES AND NOTES

M1.0

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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.



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

1. DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS.
2. THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE, REMOTE TEMPERATURE SENSOR, AND REMOTE HUMIDITY SENSOR.
3. HUMIDITY SENSOR APPLICATION IS VARIABLE PER SITE SPECIFIC CONDITIONS. REFER TO HVAC UNIT SCHEDULE, 1/M1.0, FOR APPLICATION CONDITIONS.
4. COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND STRUCTURAL.
5. NO FLEX DUCT ALLOWED ON EXHAUST SYSTEMS.
6. 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@torkeeton@tabonline.com
 - MELINK CORP.
JENNIFER JACKSON
(513) 393-9401 EXT. 2237
kjohanson@mmlinkcorp.com
 - AIR CARE EXPERTS
CHUCK McCABE
cmccabe@ace-iaq.com

- 1 10x10 EXHAUST AIR DUCT UP TO EF-2.
- 2 SEE DETAIL 4 ON DRAWING M4.0 FOR SUPPLY AIR TAKE-OFF TO CEILING DIFFUSERS AND GRILLES.
- 3 EXTEND FULL SIZE SUPPLY DUCT DROP WITH FLEX CONNECTION TO RTU-1. PROVIDE 90° ELBOWS WITH TURNING VANES.
- 4 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.
- 5 EXTEND FULL SIZE SUPPLY PLENUM WITH FLEX CONNECTION TO RTU-2. PROVIDE 90° ELBOWS WITH TURNING VANES AND SPLITTER DAMPERS.
- 6 EXTEND FULL SIZE RETURN DUCT DROP WITH FLEX CONNECTION TO RTU-2.
- 7 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.
- 8 HUMIDITY SENSOR (REMOTE). HUMIDITY SENSOR LOCATION SHALL BE PLACED IN RETURN AIR DUCTWORK. VERIFY EXACT LOCATION.
- 9 LOCATE THERMOSTAT CONTROLS ON WALL IN OFFICE AT 48" A.F.F. COORDINATE LOCATION WITH LIGHT SWITCHES AND OTHER WALL MOUNTED ACCESSORIES.
- 10 MOUNT THERMOSTAT REMOTE SENSOR AT 60" ABOVE FINISHED FLOOR.
- 11 UNDERCUT RESTROOM DOORS MINIMUM 3/4" FOR MAKE-UP AIR.
- 12 RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE. COORDINATE ACTUAL DUCT ROUTING WITH FINAL TRUSS SPACING AND LOCATIONS.

- 13 RUN DUCT THROUGH OPEN WEBBING OF ROOF TRUSSES (WHERE POSSIBLE). COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.
- 14 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.
- 15 RUN MAIN SUPPLY DUCT UNDER BOTTOM OF TRUSS. COORDINATE ACTUAL DUCT ROUTING WITH FINAL CEILING HEIGHT.
- 16 FURNISH AND INSTALL 3" PVC WATER HEATER INTAKE AND FLUE VENT TERMINATION ON ROOF. COORDINATE WORK WITH ALL TRADES.
- 17 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.
- 18 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.
- 19 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.
- 20 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.
- 21 ROUTE EXHAUST DUCT FROM EF-3 DOWN BESIDE CO₂ TANK AND TERMINATE WITH TITUS 350RL 10"x10" EXHAUST GRILLE. EXHAUST GRILLE SHALL BE A MAXIMUM OF 1'-0" A.F.F.

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| 05/31/18 | IFC |
| 04/20/18 | BUILDING COMMENTS |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

Taco Bell

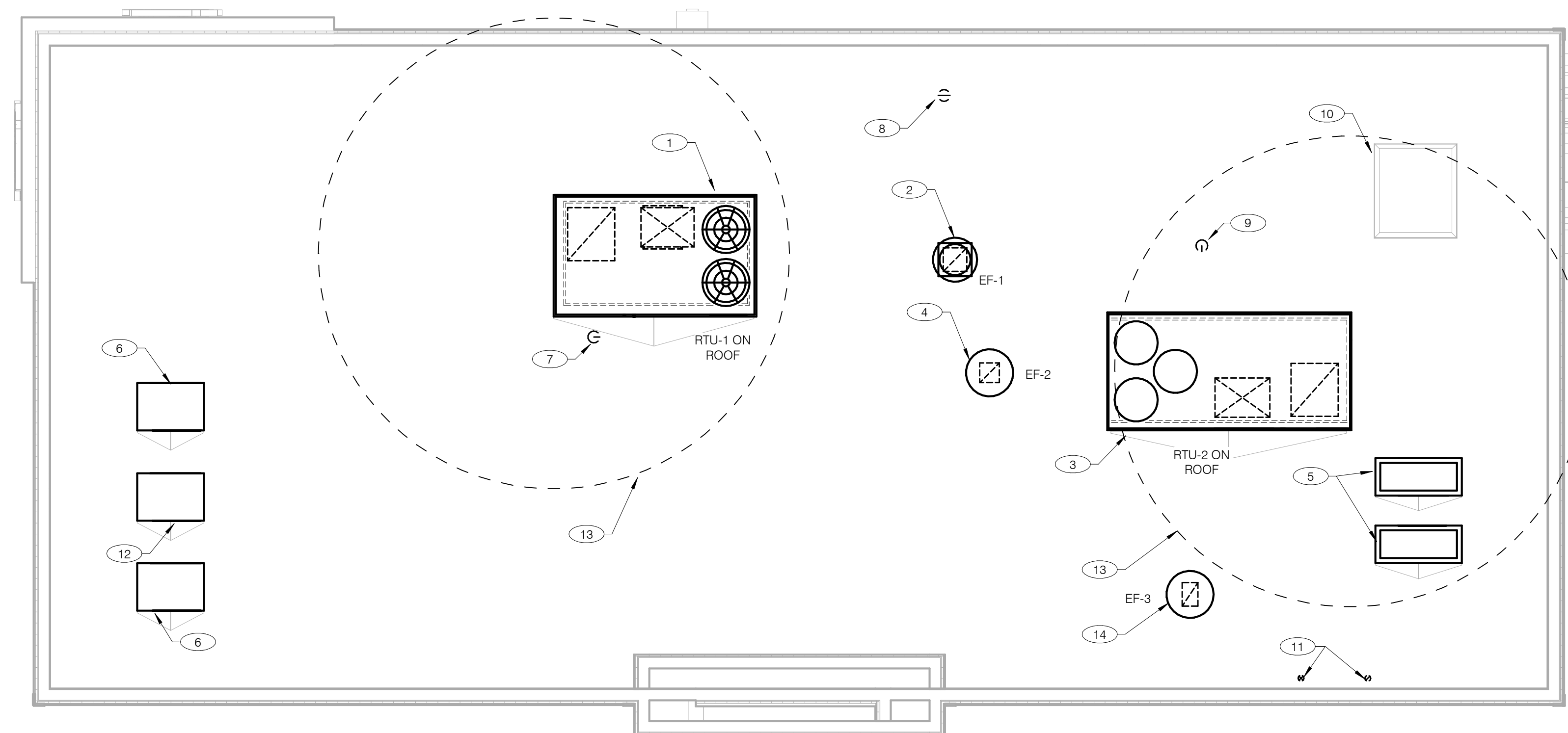
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066



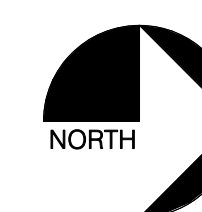
T40M-O
OPEN KITCHEN
MODERN EXPLORER

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.



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.
- 14 CONTRACTOR TO PROVIDE AND INSTALL TYPE II EXHAUST FAN (EF-3) IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM RESTROOM EXHAUST GRILLES TO EF-3 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.

KEYNOTES - ROOF PLAN NTS **B**

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| A | 04/20/18 | BUILDING COMMENTS |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

Taco Bell
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066



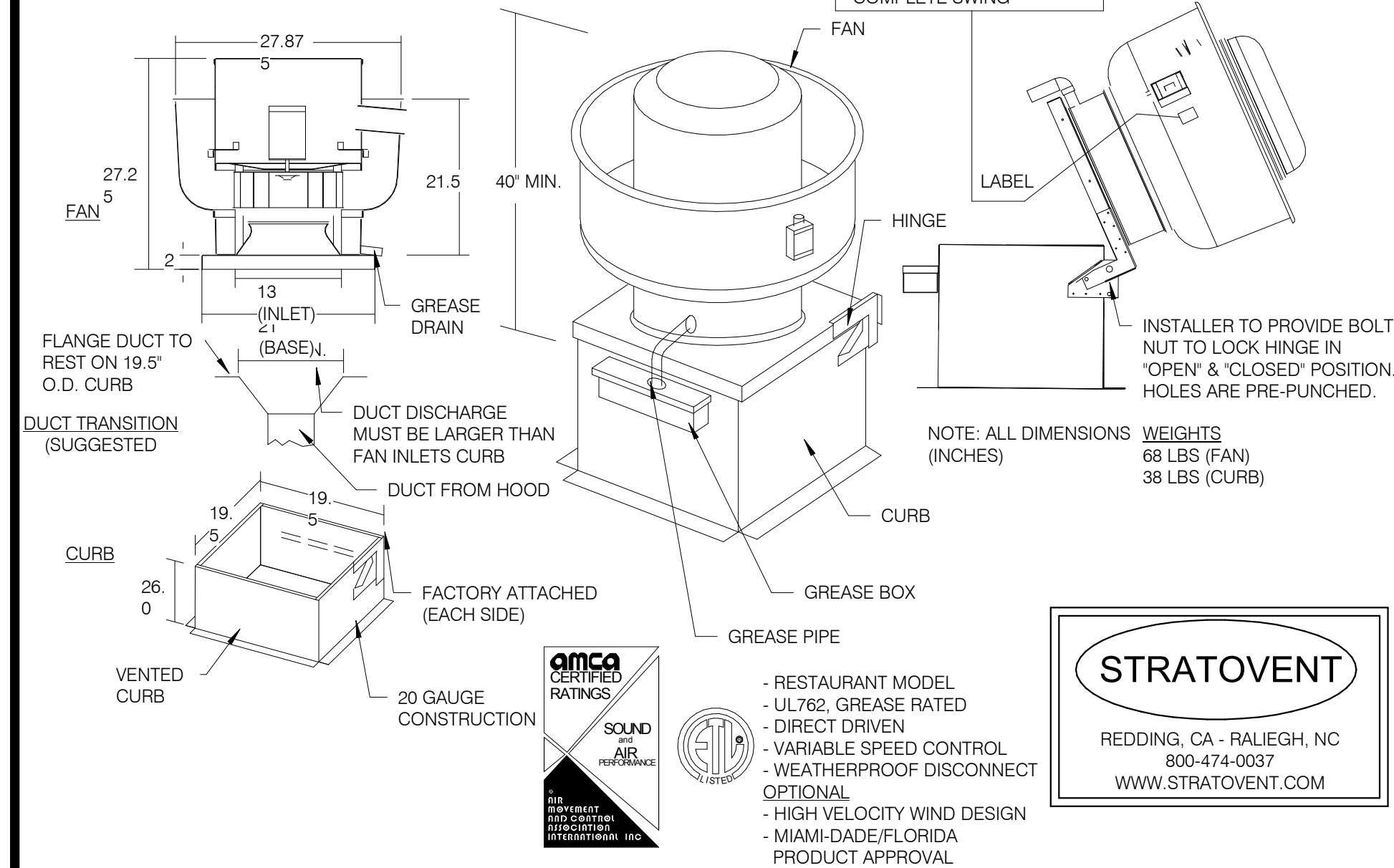
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OPEN KITCHEN
MODERN EXPLORER

MECHANICAL ROOF PLAN

M2.1

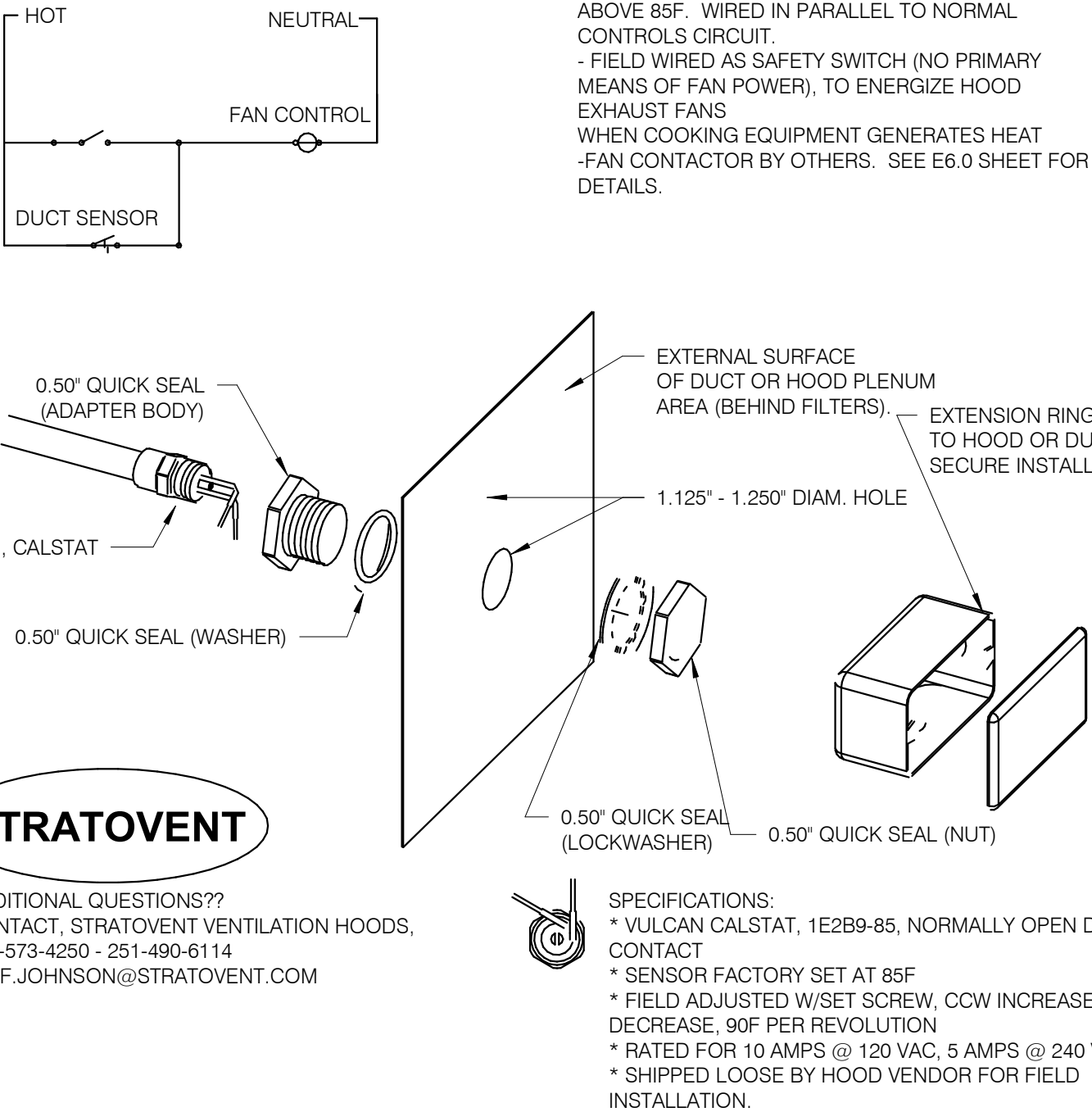
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EF-1 PERFORMANCE DATA:
 MODEL: STRATVENT, SVDU50HFA
 AIRFLOW: 1050 CFM, 0.8" STATIC PRESSURE
 FAN RPM: 1292**
 POWER: 0.231 BHP
 MOTOR: 0.50 HP, 115V, 1PH, 8.1 FLA
 ** DIRECT DRIVEN WITH PREWIRED SPEED CONTROLLER



HOOD EXHAUST FAN DETAIL NTS 7

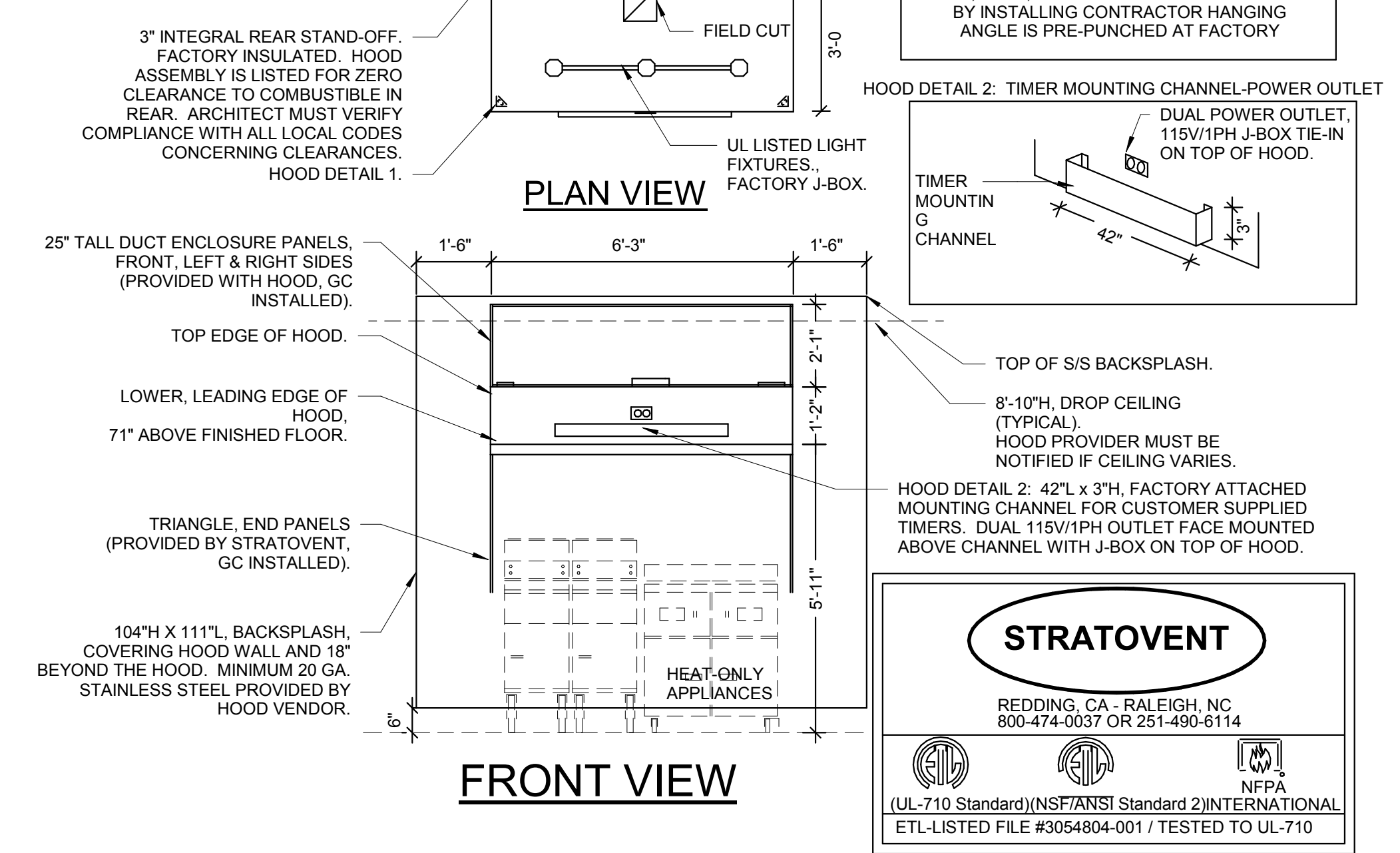
INSTALLATION: DUCT TEMPERATURE SWITCH SENSOR DETAIL
FAN CONTROL CIRCUIT (BY OTHERS, SEE E6.0)



HEAT SENSOR ATTACHMENT NTS 5

| | | | |
|------------------------------|------------------|-----------------|------------------|
| HOOD# | 1 OF 1 | STRATOVENT SVD2 | |
| LENGTH (IN): | 6'-3" | LENGTH (IN): | 36" |
| 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 |

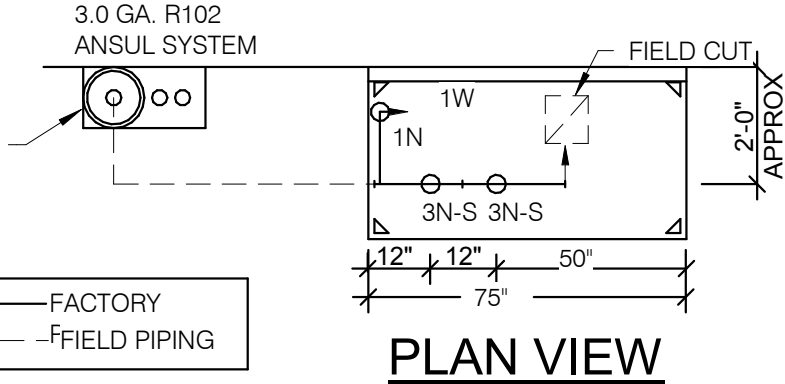
LOW-PROFILE HOOD



TACO BELL HOOD DETAIL NTS 2

PROJECT: TACO BELL

System Size: ANSUL-3.0 Gallons Total, R102
 Flow Points: 8 Design, 11 (max)
 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

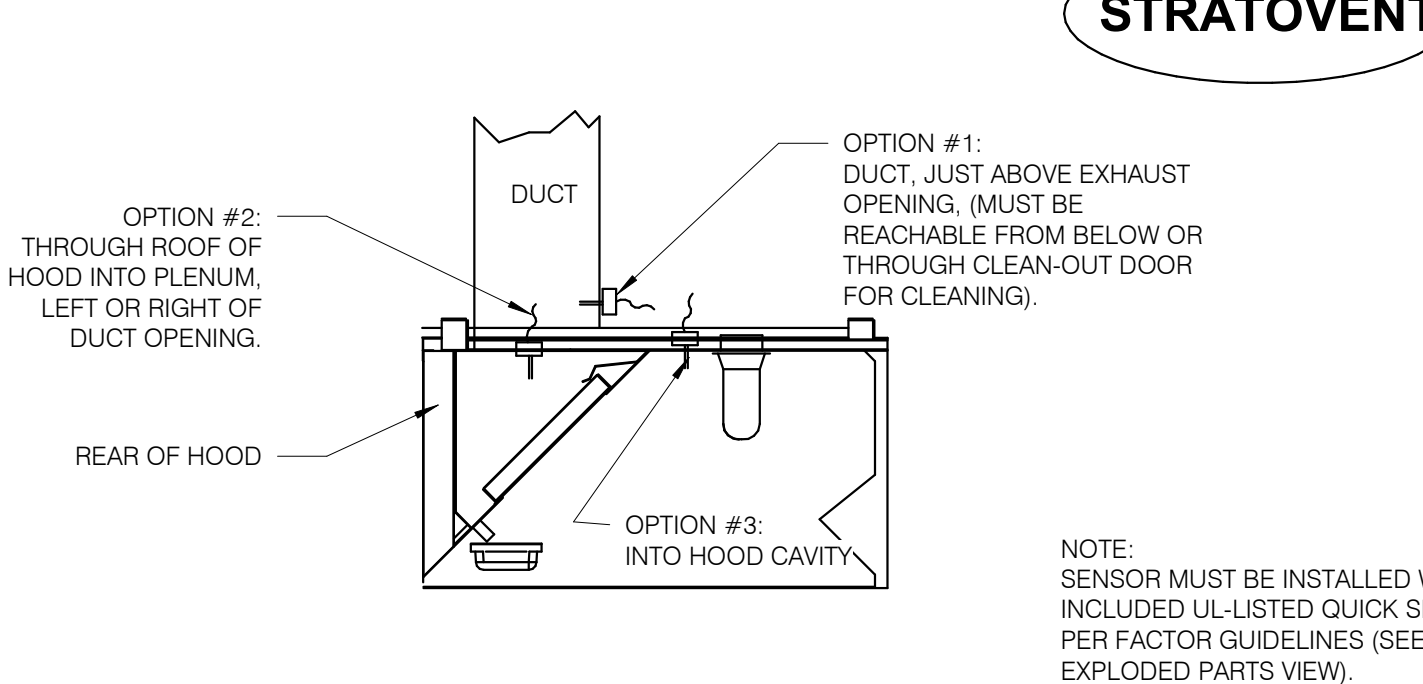
TACO BELL HOOD FIRE SUPPRESSION SYSTEM PLAN NTS 6

HOOD NOTES AND SPECS (TYP.) NTS 4

- Hoods shall be constructed of minimum 20 gauge stainless steel with #3 grade. All exterior surfaces shall be constructed of minimum 18 gauge aluminum steel.
- UL listed aluminum or stainless steel baffle type filter mesh shall be easily removable for cleaning. Filter housing shall be made of galvanized steel with a removable stainless steel gasket cover.
- UL listed and NSF approved motor proof noncombustible light fixtures permitted to be located on top of hood in accordance with NEC 710.
- Prepiped fire suppression systems shall be located on the top of the hood and provided with the hood by a certified installation. Final location of all nozzles and the suppression drops to be locally approved and reported.
- Hoods shall be fabricated in accordance with NFPA 96B and shall have the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE # 3054804-001.
- Hoods shall be fabricated in accordance with NFPA 96B and shall have the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE # 3054804-001.

THIS HOOD DESIGN IS BASED UPON STRATOVENT, MODEL SVD2, MANUFACTURED BY:
STRATOVENT VENTILATION HOODS
 RALEIGH, NC 27616
 CONTACT: JEFF JOHNSON, 251-490-6114

INSTALLATION: DUCT TEMPERATURE SWITCH HOOD DETAIL

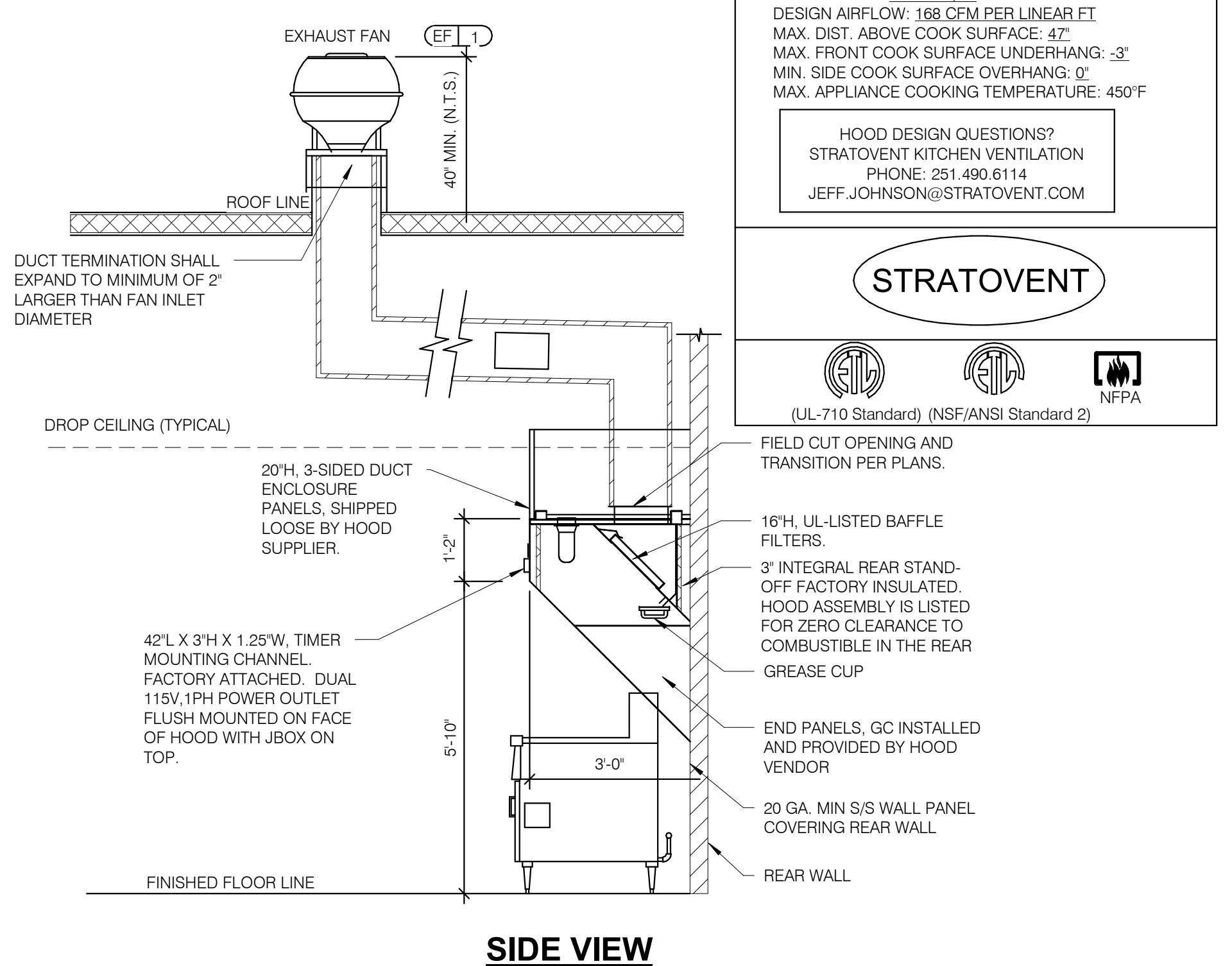


SIDE VIEW

MODIFIED: 05-05-2014

HEAT SENSOR LOCATION NTS 3

LOW-PROFILE HOOD HOOD#1



SIDE VIEW

TACO BELL HOOD SECTION NTS 1

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

FOR REFERENCE ONLY

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| 05/31/18 | JFC | |
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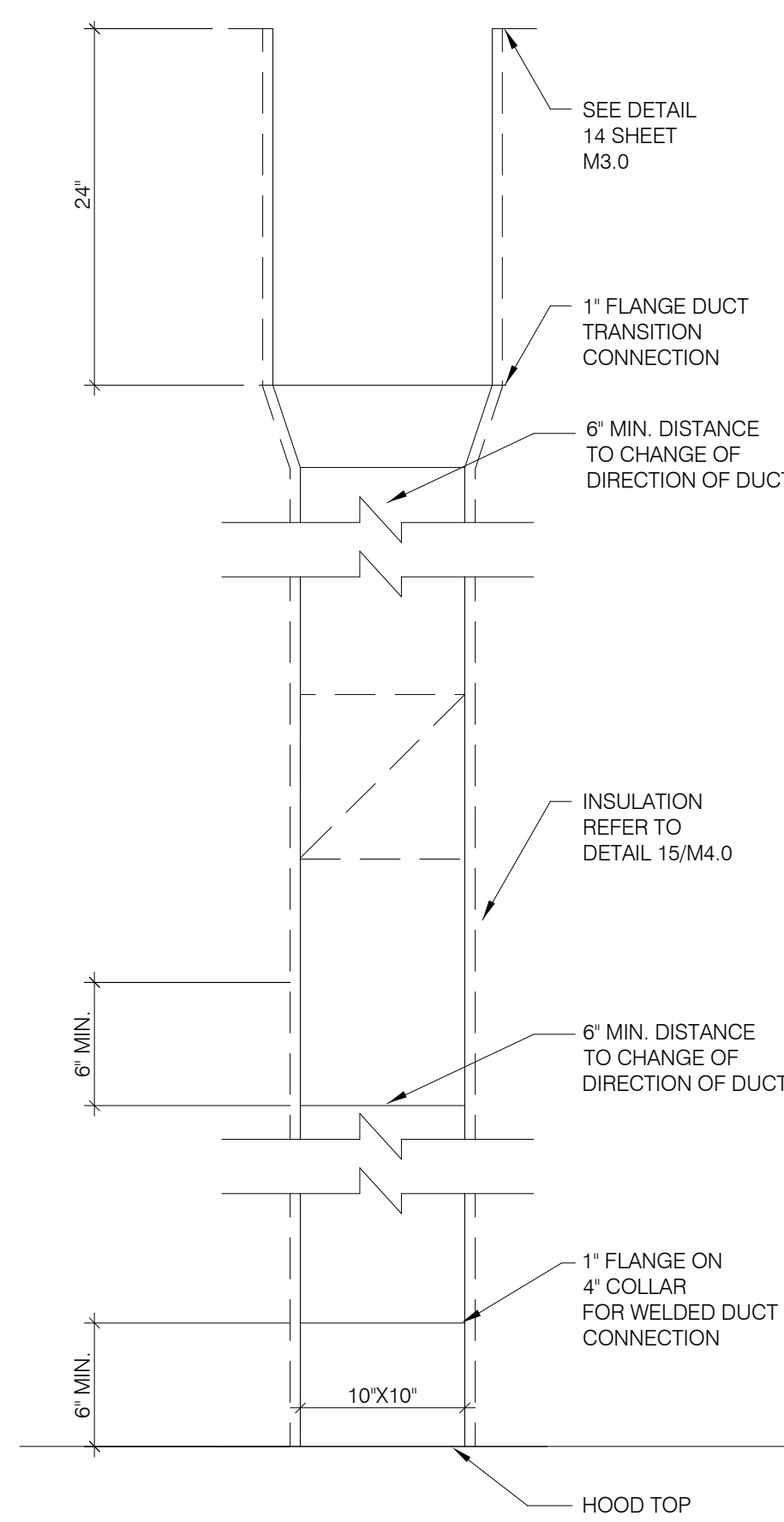
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TACO BELL
 T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

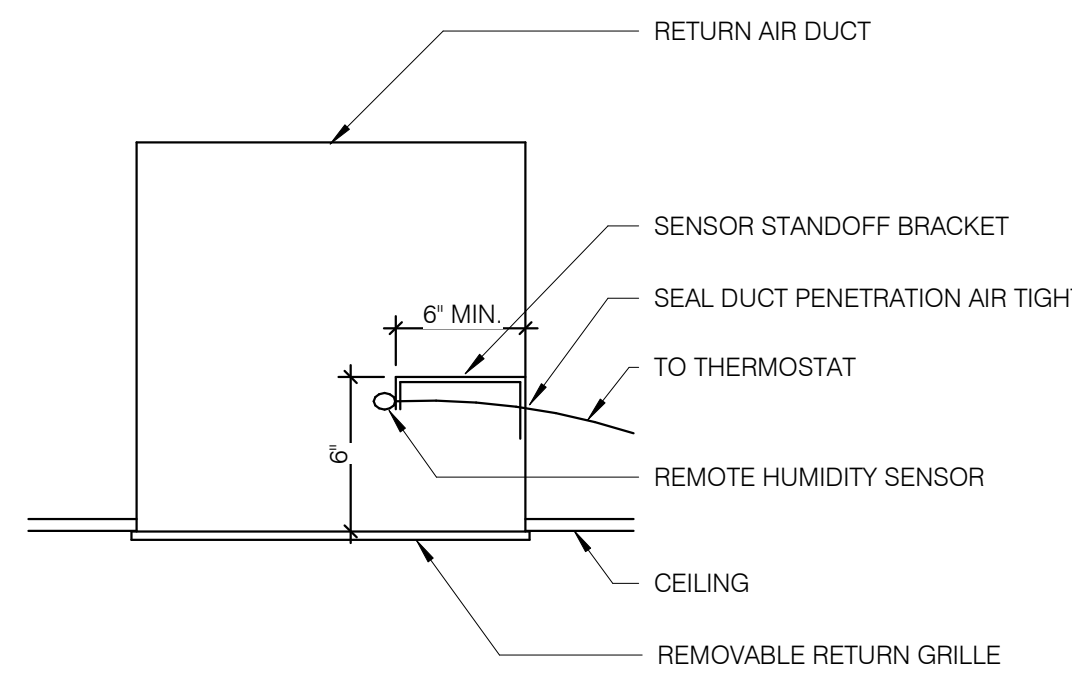
HOOD DRAWINGS PLANS AND SECTIONS

M3.0

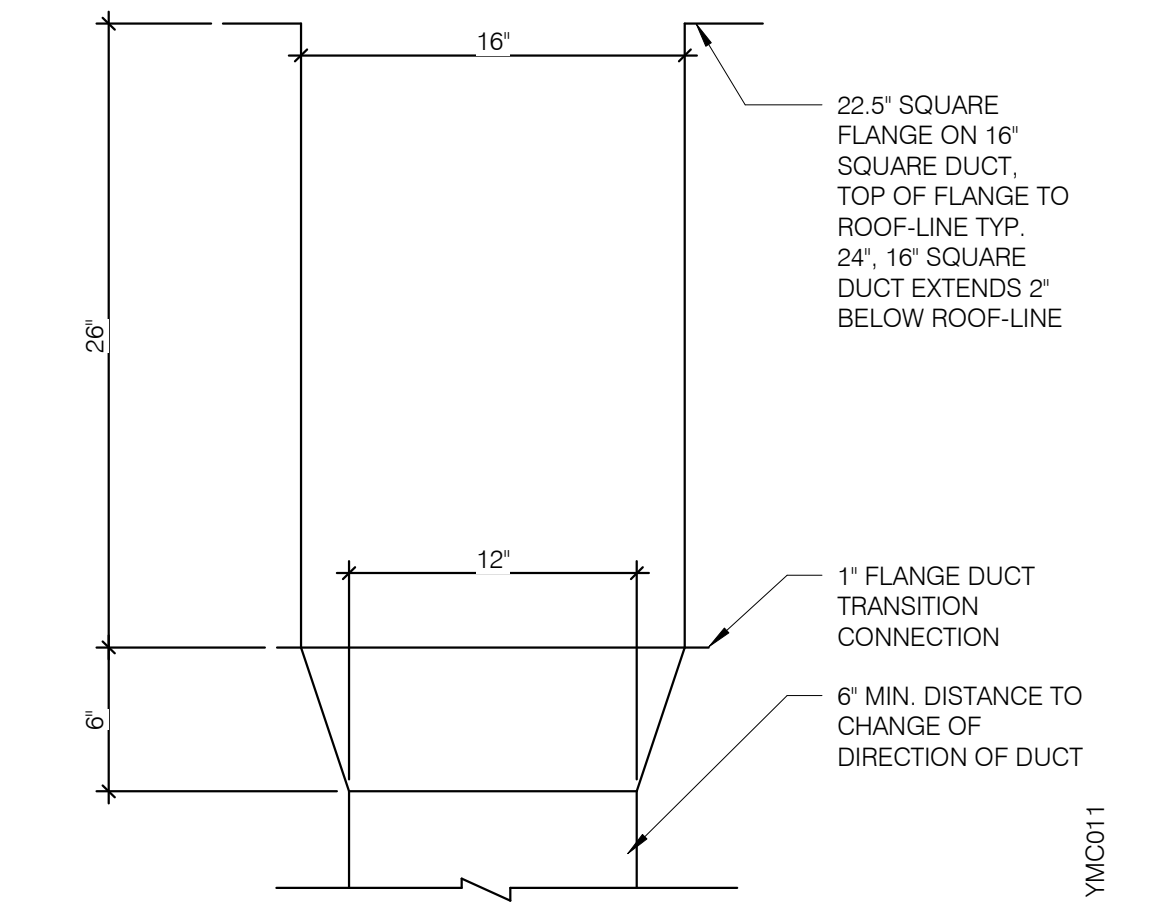
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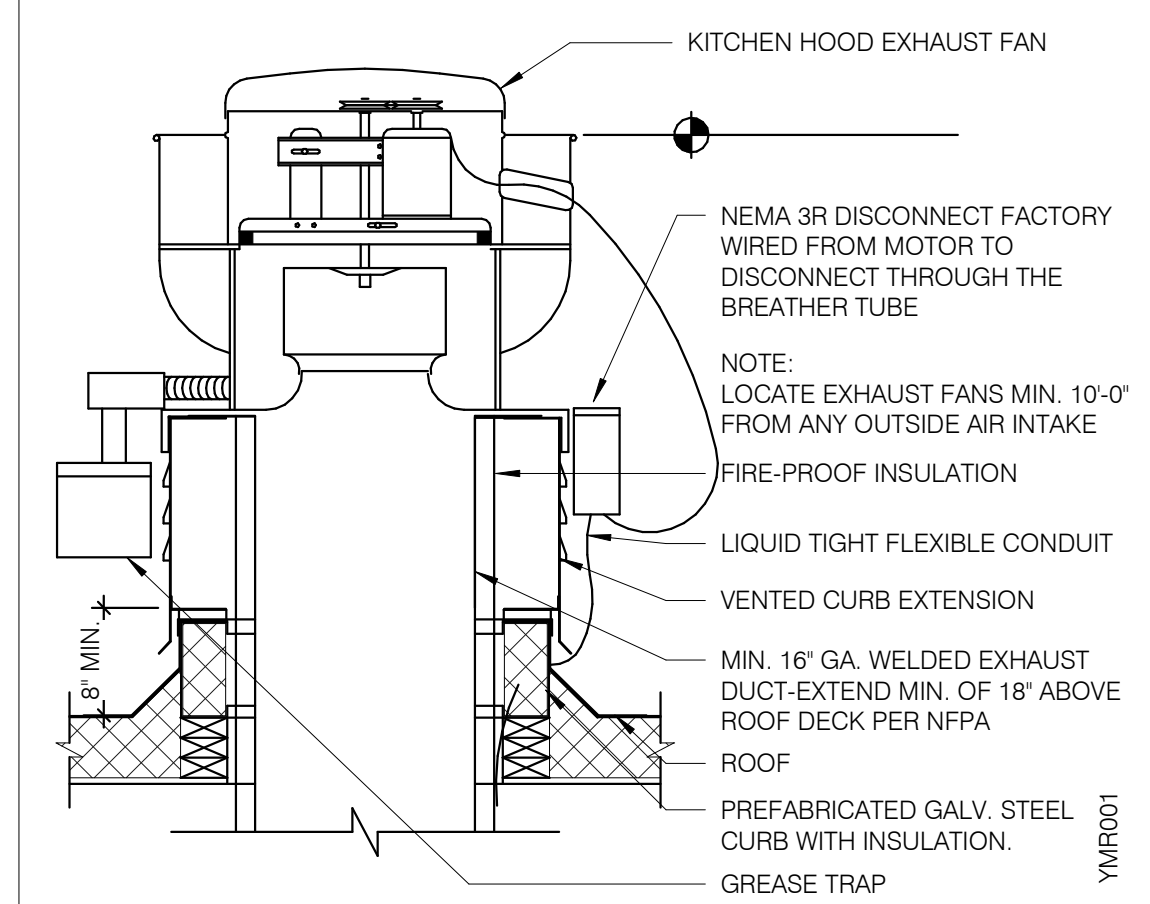
TB HOOD DUCT TRANSITION NTS **11**



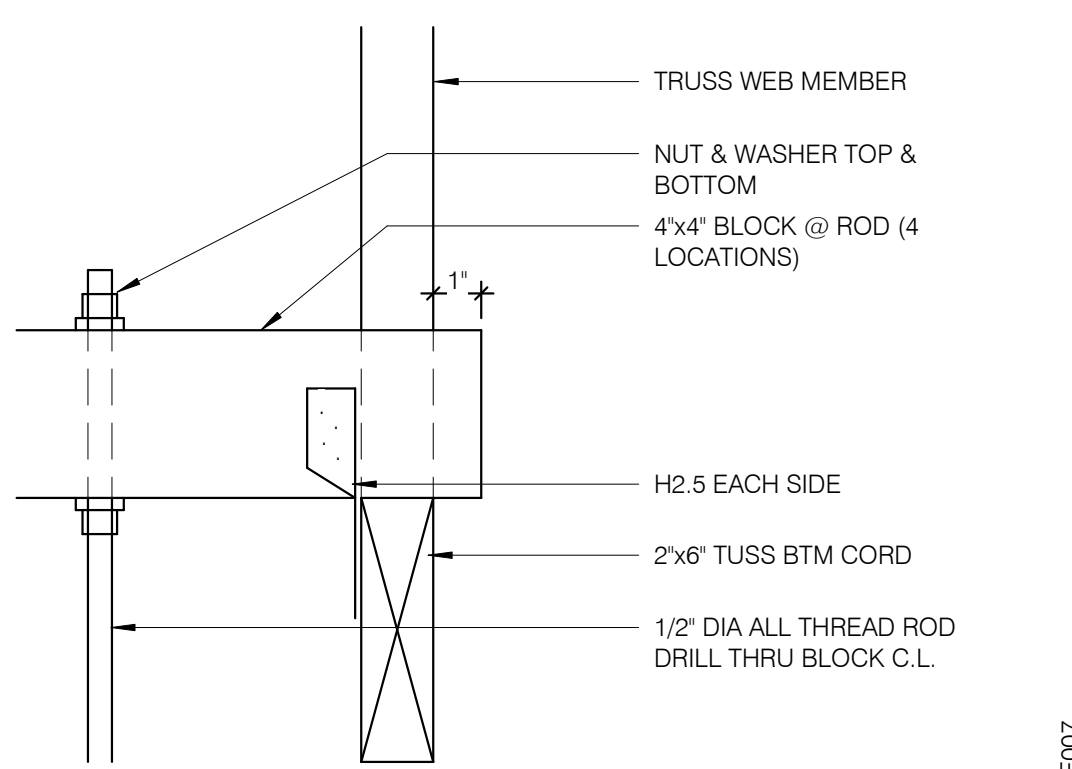
REMOTE HUMIDITY SENSOR NTS **8**



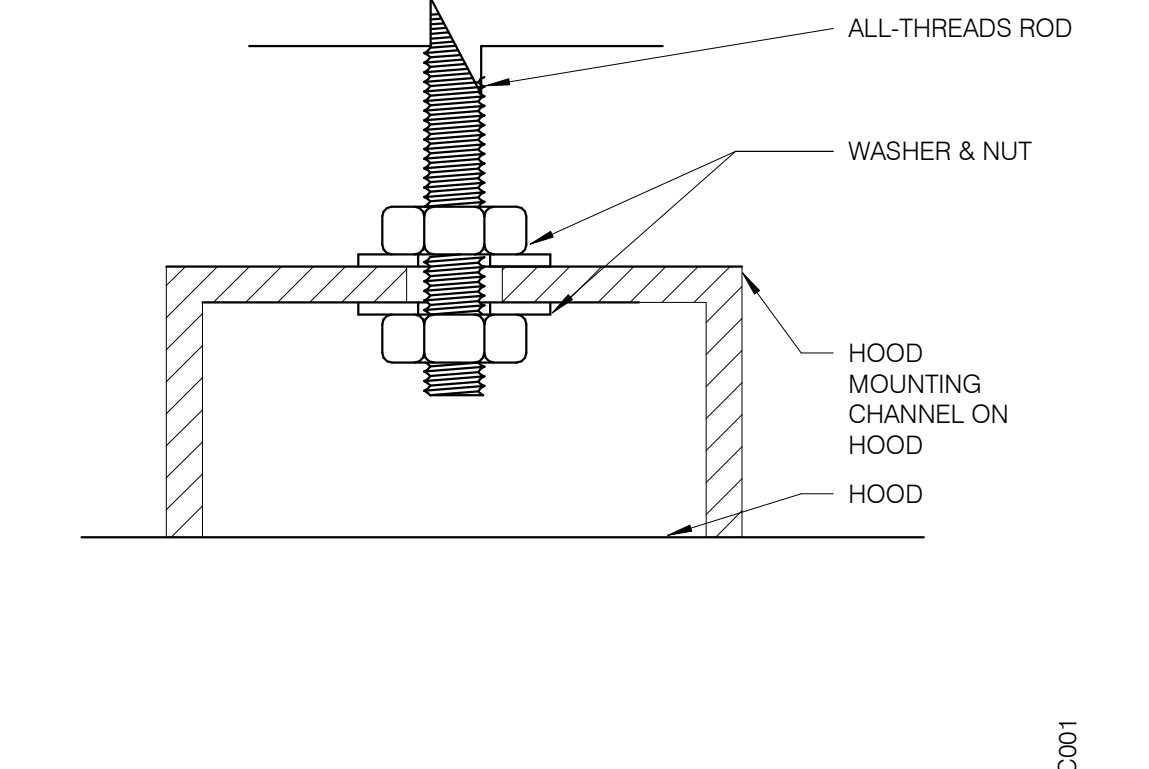
OVEN HOOD EXH. DUCT TRANSITION NTS **6**



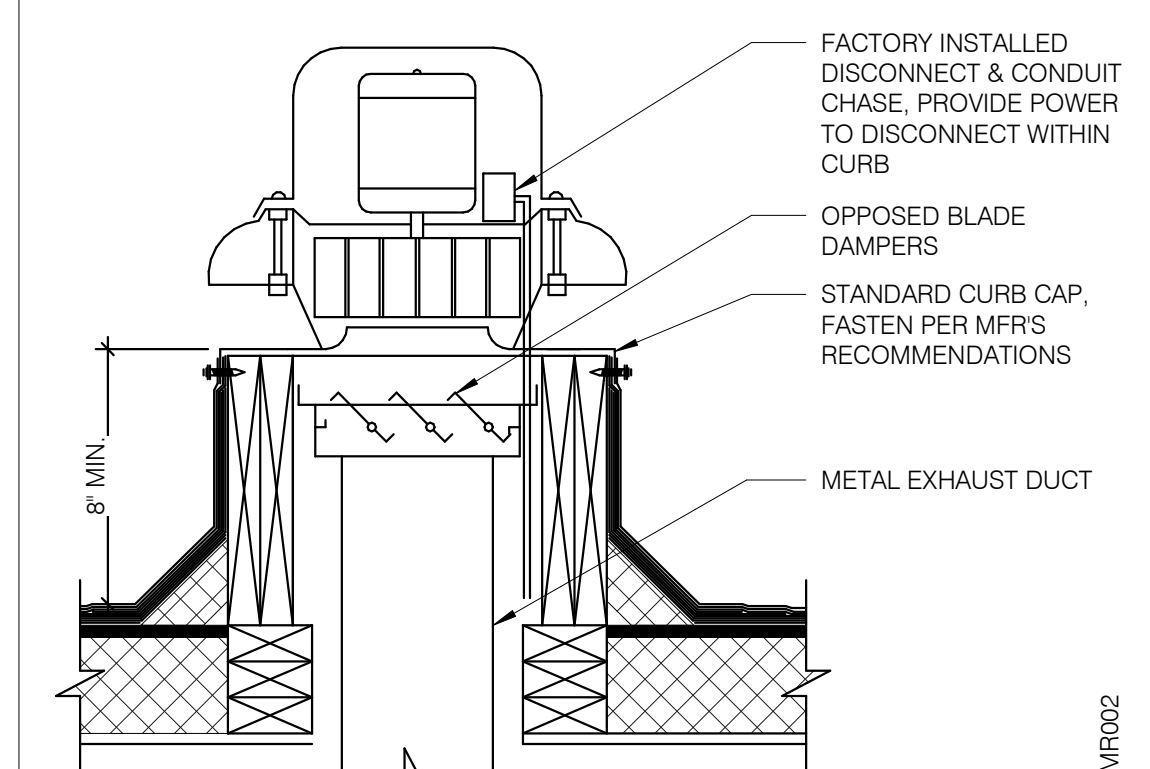
EXHAUST FAN (EF-1) NTS **3**



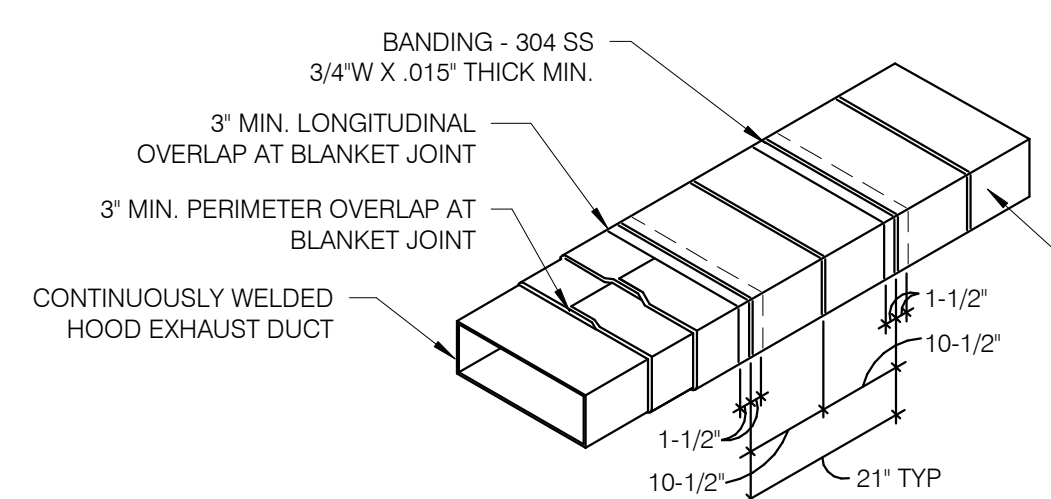
ROD ATTACHMENT NTS **7**



BOLT CONNECTION TO HOOD NTS **5**

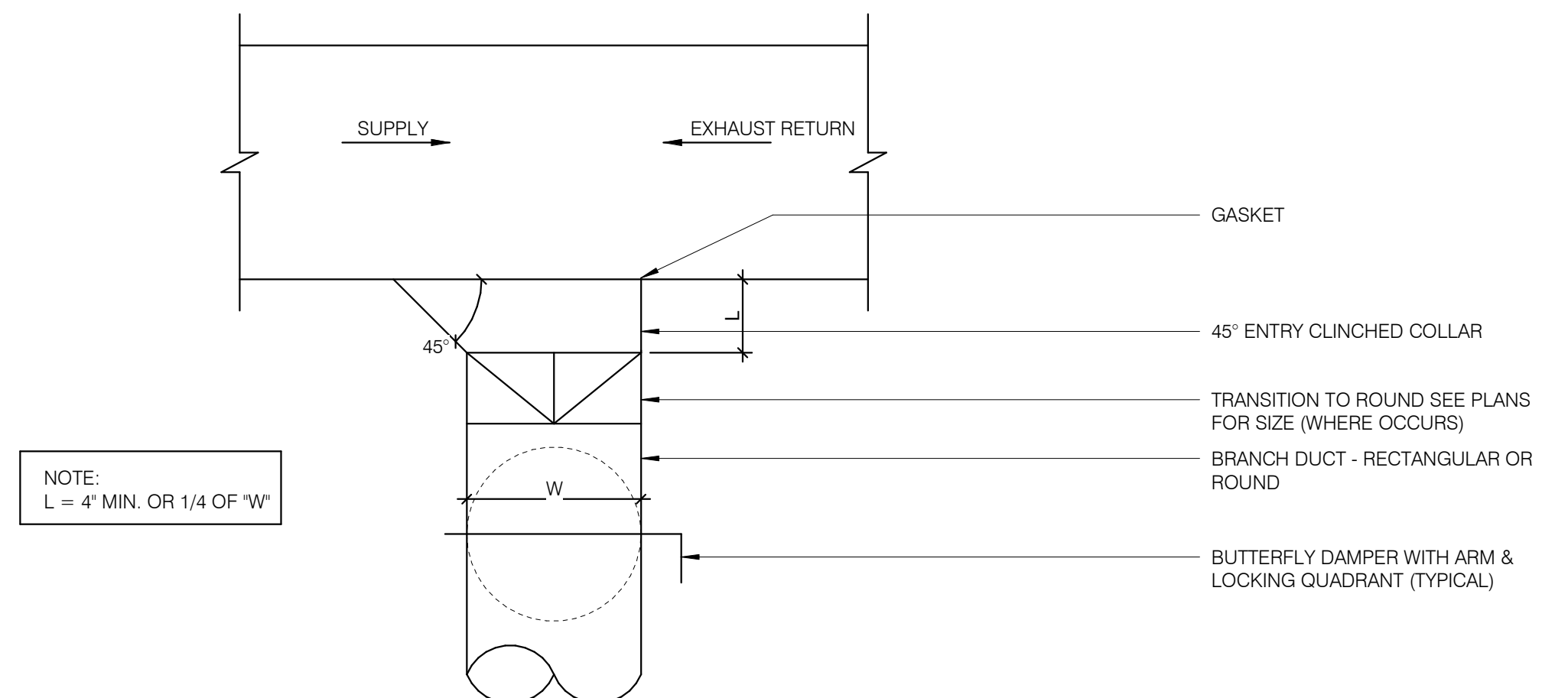


EXHAUST FAN (EF-2 & EF-3) NTS **2**

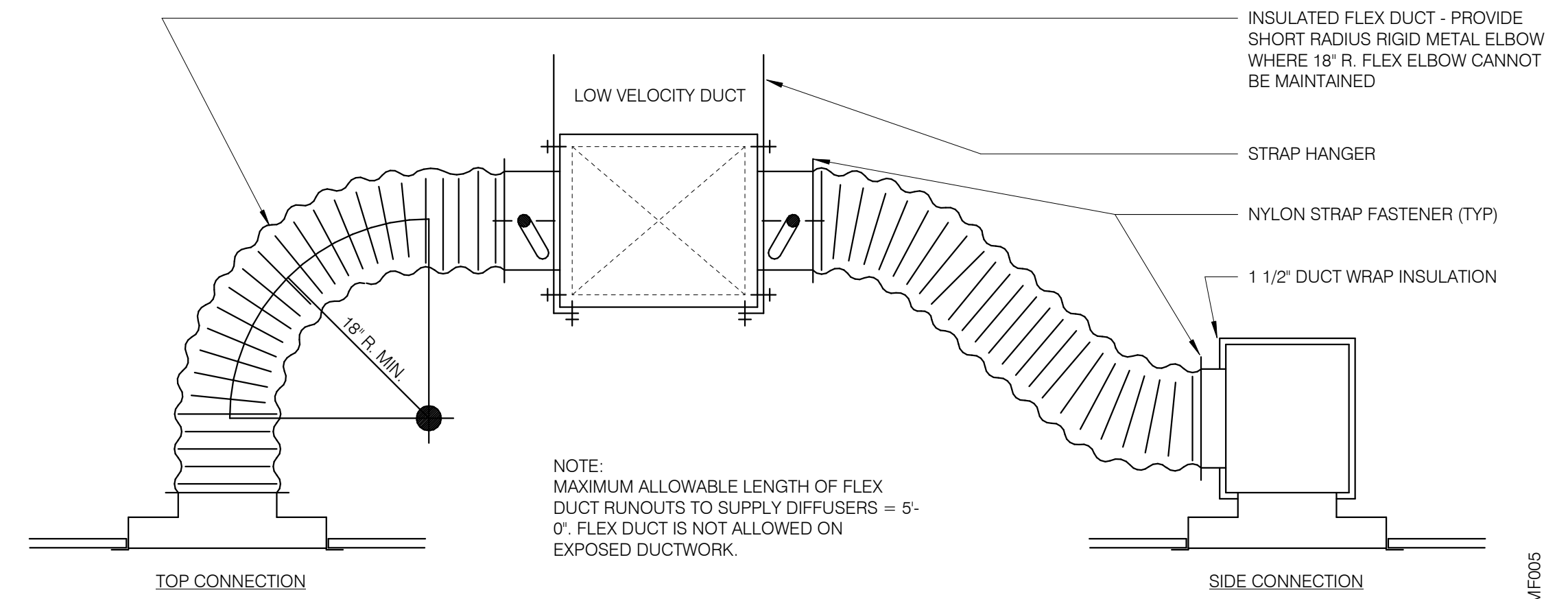


- TWO LAYER 1-1/2" THICK 8-PCF FIREMASTER BLANKET**
- NOTES:**
- WRAP GREASE DUCT CONTINUOUS AS SHOWN FROM CONNECTION AT FAN THROUGH CURB AND EXTEND 18" MIN. BELOW ROOF DECK.
 - FOR HORIZONTAL RUNS OF EXHAUST DUCTS PROVIDE TYPICAL TRAPEZE SUPPORT SYSTEM WITH 1/2" HANGER RODS A MAXIMUM OF 6' FROM INSULATION EDGE. TRAPEZE SUPPORTS SHALL BE SPACED A MAXIMUM OF 60" ON CENTER FROM CENTERLINE OF VERTICAL EXHAUST DUCT.
 - SLOPE HORIZONTAL EXHAUST DUCT RUNS A MINIMUM OF 1/4" PER FOOT (2% SLOPE) TOWARDS EXHAUST HOOD.
 - PROVIDE INSULATED ACCESS DOOR OR PANEL NEAR MID POINT OF EXHAUST DUCT RUN FOR CLEANING AND INSPECTION OF DUCT. PROVIDE AN APPROVED SIGN ON ACCESS DOOR OR PANEL WHICH READS "ACCESS PANEL DO NOT OBSTRUCT"

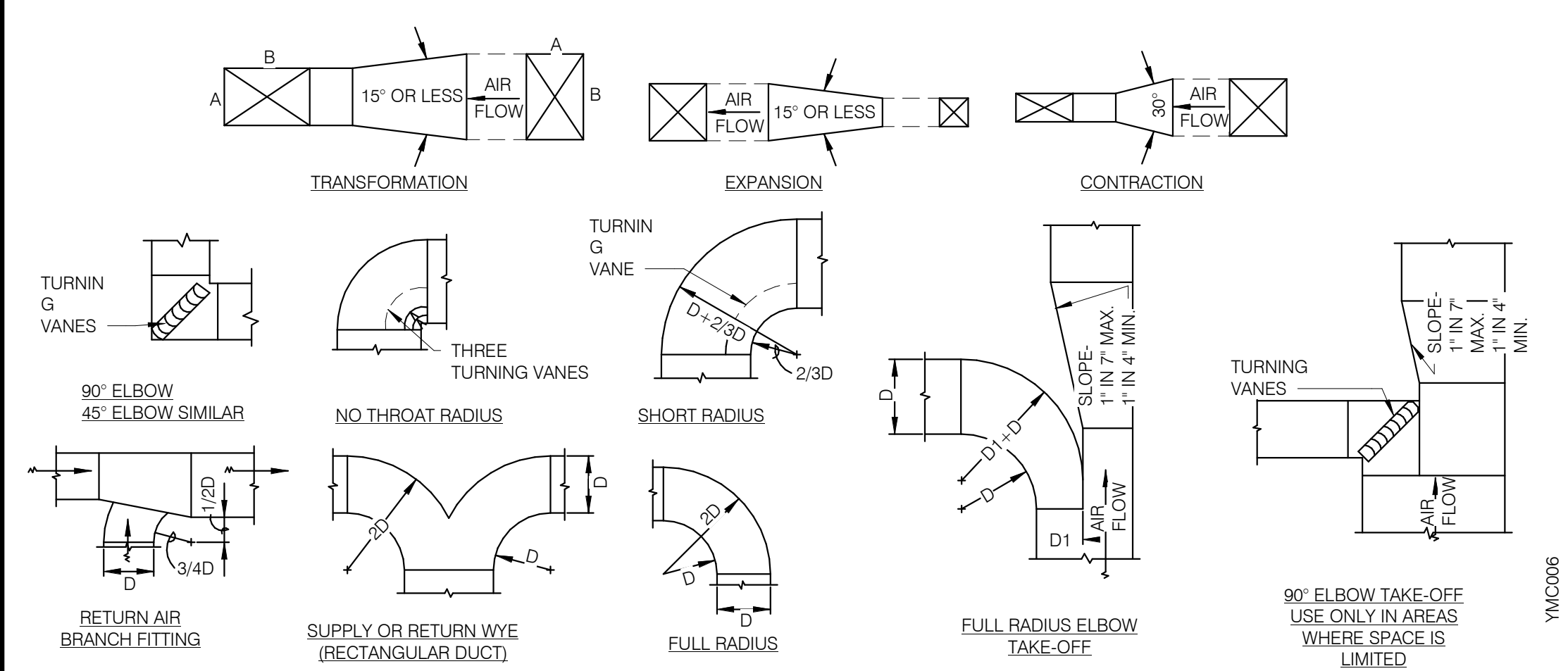
KITCHEN HOOD EXHAUST DUCT SYSTEM DETAIL NTS **10**



CEILING DIFFUSER CONNECTIONS NTS **4**



DUCT SUPPORT DETAIL NTS **1**



TYPICAL DUCTWORK DETAILS NTS **9**

| | | | |
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| | 05/31/18 | IFC | |
| A | 04/20/18 | BUILDING COMMENTS | |
| | 02.16.18 | ISSUED FOR PERMIT | |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

Taco Bell
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066

TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

**MECHANICAL
AND HOOD
DETAILS**

M4.0

- SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
- ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
- VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
- PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
- 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.
- 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.
- ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
- INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.
- 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.
- ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 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.
- REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.
- ALL GAS LINES SHALL BE SUPPORTED SEE SPECS.
- ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
- PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.
- PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.
- 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.
- COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
- 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.
- PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
- 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.
- ALL WATER LINES SHALL BE RUN OVERHEAD U.O.N.
- ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
- PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.
- PVC SCHEDULE 40 WASTE PIPE CAN BE SUBSTITUTED FOR BLACK IRON WASTE PIPE WHERE ALLOWED BY LOCAL MUNICIPALITIES.

GENERAL NOTES - PLUMBING NTS **6**

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

KEYNOTES NTS **5**

| 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 |
| | GAS / GAS STUB |
| | COLD WATER/ CW STUB |
| | 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 |

PLUMBING LEGEND NTS **4**

| FIXTURE | NO. | DRAIN | | COLD WATER | | HOT WATER | |
|---------------------------------|-----|--------|--------------|------------|------------|-----------|------------|
| | | D.F.U. | TOTAL D.F.U. | F.U. C.W. | TOTAL C.W. | F.U. H.W. | TOTAL H.W. |
| WATER CLOSET | 2 | 4 | 8 | 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 |
| REETHERMALIZER * | 1 | -- | -- | -- | -- | 1.0 | 1.0 |
| TOTAL | -- | -- | 61 | -- | 20.75 | -- | 14.27 |

PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS: COLD WATER: 20.75 FU = 20 GPM 39 DFU DRAIN: GW 22 DFU SAN 14.25 FU = 17 GPM 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

PLUMBING FIXTURE COUNT NTS **3**

| ITEM | FIXTURE | SOIL OR WASTE | VENT | COLD WATER | HOT WATER | TEMP WATER | WASTE FU | WATER FU | DESCRIPTION | MANUFACTURER / MODEL NUMBER |
|---------|--------------------|---------------|--------|------------|-----------|------------|----------|----------|---|--|
| (ECO) 1 | EXTERIOR CLEANOUT | -- | -- | -- | -- | -- | -- | -- | CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER. | JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400 |
| (FS) 1 | FLOOR SINK | 4" | 2" | -- | -- | -- | 6 | -- | PVC 12" SQUARE FLOOR SINK, 8" DEEP. WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLUSH WITH FLOOR TILE. | JOSAM / MODEL: 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 |
| (FCO) 1 | FLOOR CLEANOUT | -- | -- | -- | -- | -- | -- | -- | CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER. | JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400 |
| (WCO) 1 | WALL CLEANOUT | -- | -- | -- | -- | -- | -- | -- | CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER. | JOSAM / MODEL: 58510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446-BP |
| (HB) 1 | HOSE BIBB | -- | -- | 3/4" | -- | -- | -- | 2.5/1 | NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND NICKEL BRONZE BOX. | JOSAM / MODEL: 71000 WADE / MODEL: 8600L ZURN / MODEL: Z-1300 |
| (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 FLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS | AM STD. "CADET" / MODEL: 2467.100 KOHLER "HIGHLINE" / MODEL: K-3519 CRANE "ECONMISER" / MODEL: 31888 |
| (L) 1 | LAVATORY | 1-1/4" | 1-1/2" | 1/2" | -- | 1/2" | 1 | 1.5 | WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT, 4" CENTERS, WITH INTEGRAL 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" | -- | 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 AO SMITH / BTH-199 |
| (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 | -- |
| (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 | -- |

PLUMBING FIXTURE SCHEDULE NTS **2**

| | |
|--|---------------------|
| 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. | |

GREASE TRAP SIZING NTS **1**



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| | 05/31/18 | IFC | |
| A | 04/20/18 | BUILDING COMMENTS | |
| | 02.16.18 | ISSUED FOR PERMIT | |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

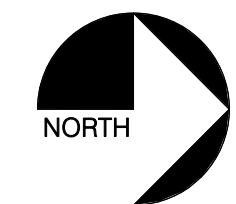
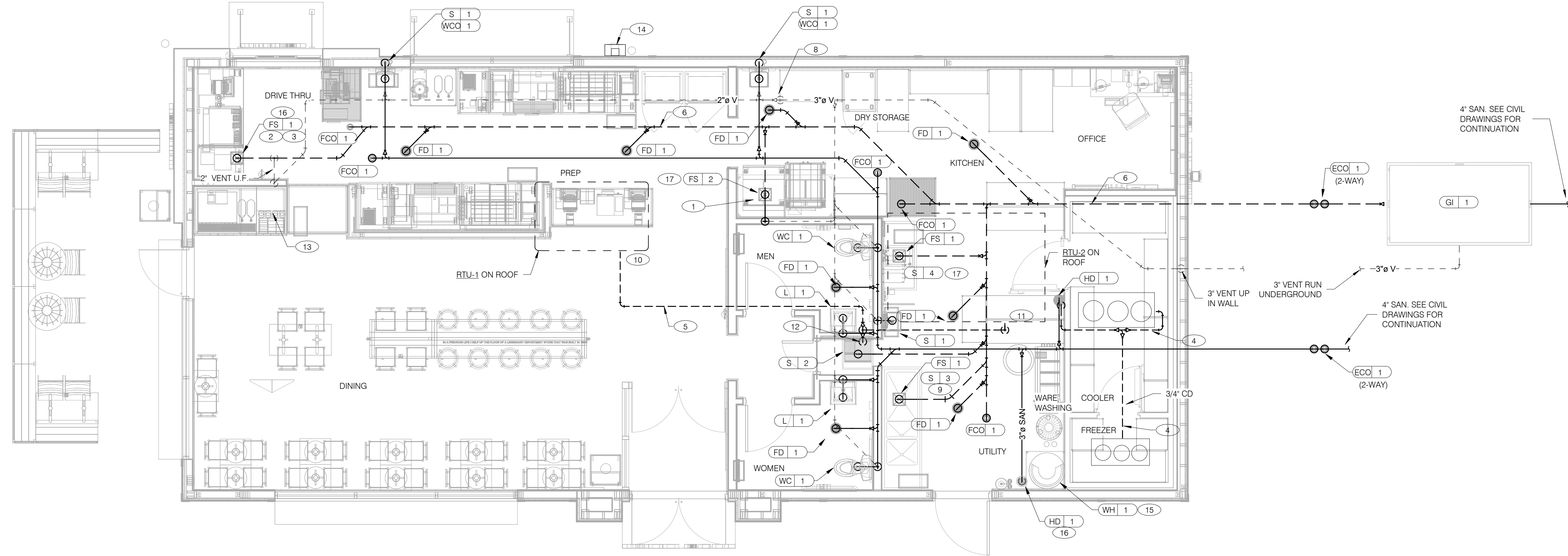
Taco Bell
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066



PLUMBING SCHEDULES AND NOTES

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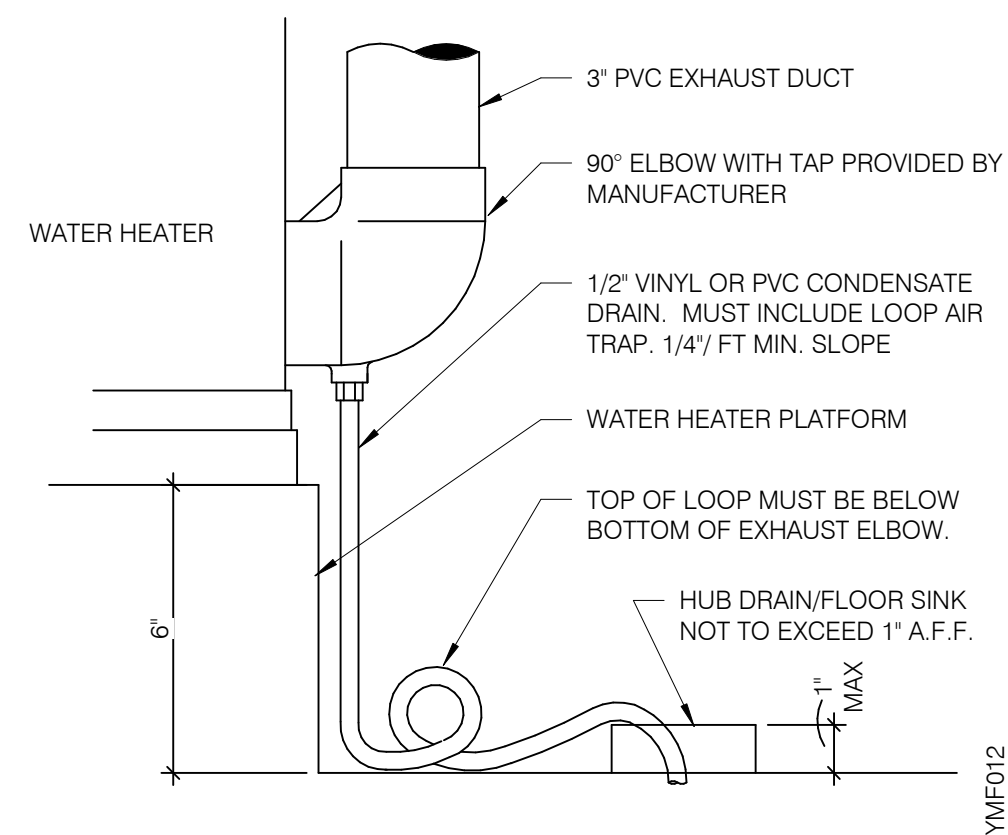
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| DATE | DESCRIPTION |
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| 05/31/18 | IFC |
| 04/20/18 | BUILDING COMMENTS |
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WASTE & VENT PIPING PLAN 1/4" = 1'-0" **1**

| | |
|-----------------|---------------|
| CONTRACT DATE: | 01.08.18 |
| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| BRAND DESIGNER: | |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |



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.

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 11/A6.4
- 3 PROVIDE WASTE LINES FROM BEVERAGE UNIT TO HD / FS, PROVIDE AIR GAP PER LOCAL CODE. SEE 11/A6.4
- 4 PROVIDE 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO HUB DRAIN WITH APPROVED AIR GAP (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 13/P6.0.
- 11 1" CONDENSATE DRAIN DOWN FROM RTU-2. SEE DETAIL 13/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 THRU WALL OPG. TO OUTFALL AT FS BENEATH D/T DRINK MACHINE.
- 14 DOWN SPOUT, 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.
- 17 ROUTE INDIRECT DRAIN FROM FIXTURE TO FLOOR SINK WITH APPROVED AIR GAP.

KEYNOTES - WASTE AND VENT NTS **2**

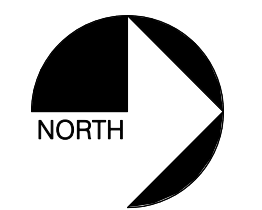
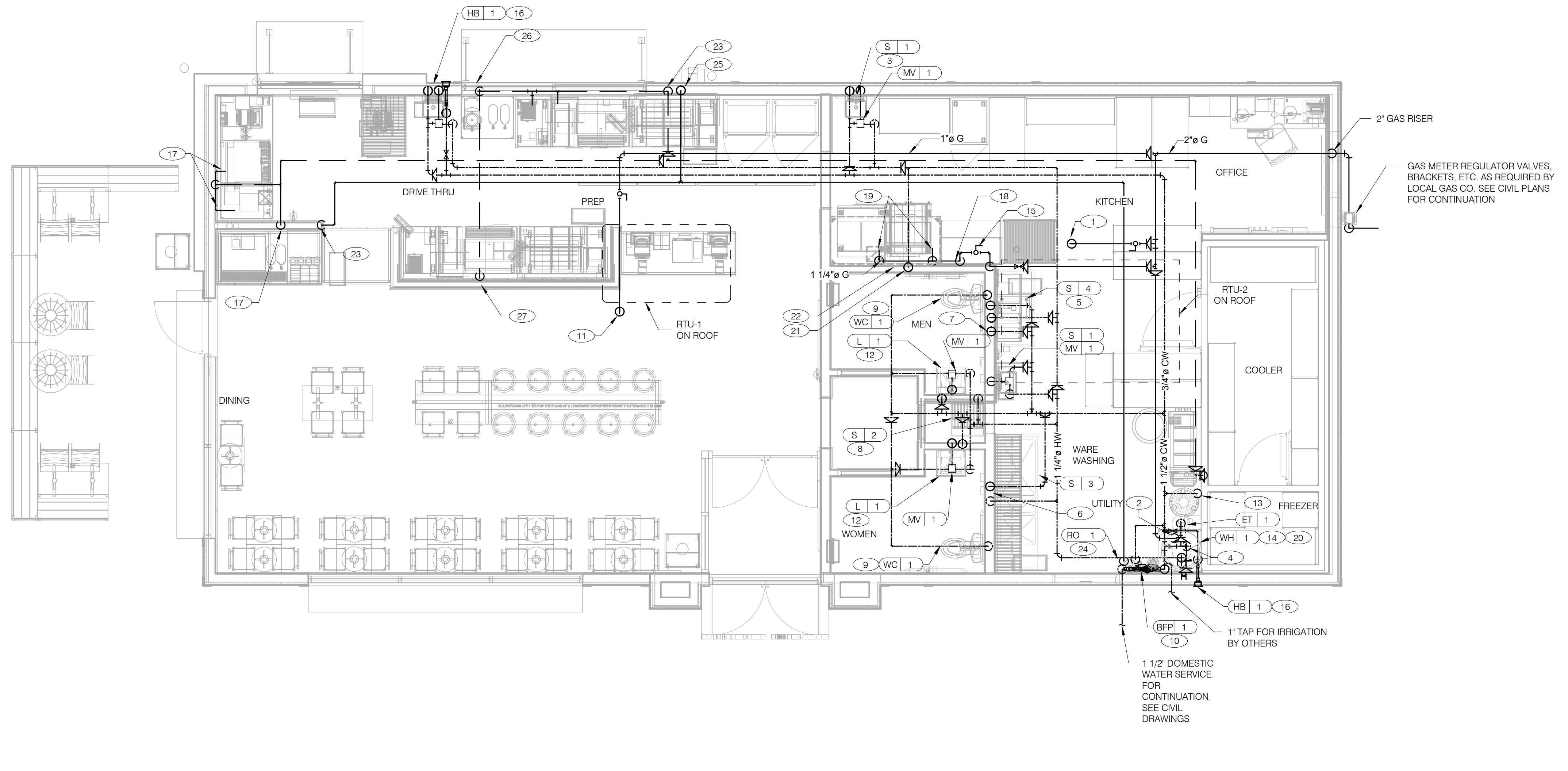
Taco Bell
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066



T40M-O
OPEN KITCHEN
MODERN EXPLORER

WASTE AND VENT PLAN

P2.0



| | |
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| 05/31/18 | IFC |
| A 04/20/18 | BUILDING COMMENTS |
| 02.16.18 | ISSUED FOR PERMIT |
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WATER & GAS PLAN 1/4" = 1'-0" **1**

| | |
|-----------------|---------------|
| CONTRACT DATE: | 01.08.18 |
| BUILDING TYPE: | T40M-O |
| PLAN VERSION: | DEC 2017 |
| BRAND DESIGNER: | |
| SITE NUMBER: | 312262/442877 |
| STORE NUMBER: | 2016088.09 |

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ROSEVILLE, MI 48066



WATER AND GAS PLAN

P3.0

PLOT DATE: 5/30/2018 3:24:42 PM

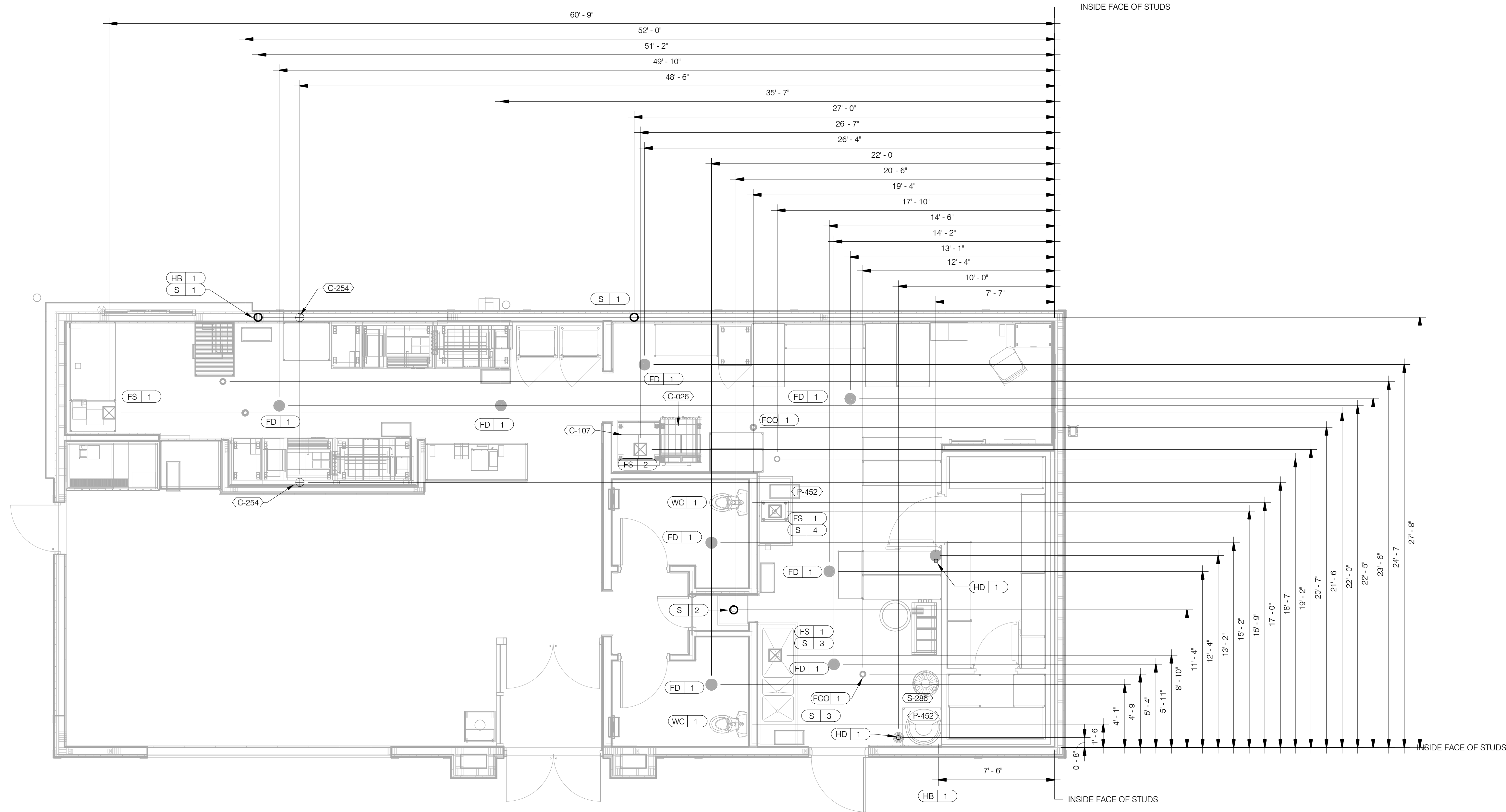
- A. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISH CEILING. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.
- B. NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS". REFER TO ROOF PLAN FOR LOCATIONS.
- C. REFER TO SHT P4.0 FOR ROUGH-IN LOCATIONS.
- D. REFER TO SHEET P5.0 FOR WATER AND GAS ISOMETRIC DRAWINGS.
- E. FLUSH ALL WATER SUPPLY LINES OF ALL DEBRIS AND IMPURITIES PRIOR TO CONNECTING TO WATER FILTERS.
- F. PROVIDE REDUCED PRESSURE BACKFLOW TO SERVE CARBONATOR, DRAIN RELIEF TO FLOOR SINK WITH AIR GAP

WATER & GAS PLAN NOTES NTS **3**

- 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. CONTRACTOR SHALL PROVIDE AND INSTALL PRESSURE-MEASURING DEVICE ON WATER LINE IMMEDIATELY DOWNSTREAM OR UPSTREAM FROM FRESH HOT WATER SANITIZING RINSE CONTROL VALVE
- 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.

- 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/A6.6.
- 18 1-1/4" GAS DOWN DOWN OUTSIDE OF WALL TO TACO BELL COOKING EQUIPMENT. VERTICAL GAS PIPING 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. PROVIDE AND INSTALL APPROVE BACKFLOW PREVENTER.

KEYNOTES - WATER AND GAS NTS **2**



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

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| 05/31/18 | IFC |
| 04/20/18 | BUILDING COMMENTS |
| 02.16.18 | ISSUED FOR PERMIT |
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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 201608.09

| EQUIP # | EQUIPMENT ITEM | TYPE | ELEVATION | REMARKS | EQUIP # | EQUIPMENT ITEM | TYPE | ELEVATION | REMARKS |
|---------|--------------------------|-------|-----------------|----------------------------|---------|---------------------------|-------|-------------|-------------------------------|
| FD 1 | FLOOR DRAIN | | -- | | S 3 | 3-COMPARTMENT SINK FAUCET | CW/HW | +38" A.F.F. | -- |
| FS 1 | FLOOR SINK | | -- | | S 4 | PREP SINK | W | +19" A.F.F. | -- |
| FS 2 | FLOOR SINK | | | EPOXY COATED CAST IRON | S 4 | PREP SINK FAUCET | CW/HW | +38" A.F.F. | -- |
| HD 1 | HUB DRAIN | | -- | | WCO 1 | WALL CLEAN OUT | | | -- |
| WH 1 | WATER HEATER | CW | | | FCO 1 | FLOOR CLEAN OUT | | | -- |
| WH 1 | WATER HEATER | G | +15" A.F.F. | | HB 1 | HOSE BIB | | | -- |
| WC 1 | WATER CLOSET FLUSH VALVE | CW | +29" A.F.F. | BOTH HANDICAP AND REGULAR | | | | | |
| UR 1 | URINAL FLUSH VALVE | CW | +47" A.F.F. | WALL MOUNTED | C-107 | REETHERMALIZER | HW | +8" A.F.F. | |
| UR 1 | URINAL WASTE STUB | W | +16-1/2" A.F.F. | WALL MOUNTED | C-107 | REETHERMALIZER | G | +12" A.F.F. | |
| L 1 | LAVATORY | TW | +20" A.F.F. | | C-026 | DUAL VAT FRYER | G | +12" A.F.F. | |
| L 1 | LAVATORY WASTE LINE | W | +16-1/2" A.F.F. | | S-254 | CHEESE MELTER | FW | +12" A.F.F. | |
| RO 1 | REVERSE OSMOSIS | CW | +84" A.F.F. | | S-286 | WATER FILTER SYSTEM | CW | +94" A.F.F. | INLET TO & OUTLET FROM FILTER |
| S 1 | HAND SINK | TW | +18" A.F.F. | RIM OF LAV @ +2'-8" A.F.F. | P-452 | HOT WATER SYSTEM | CW | +24" 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 3 | 3-COMPARTMENT SINK | W | +19" 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**

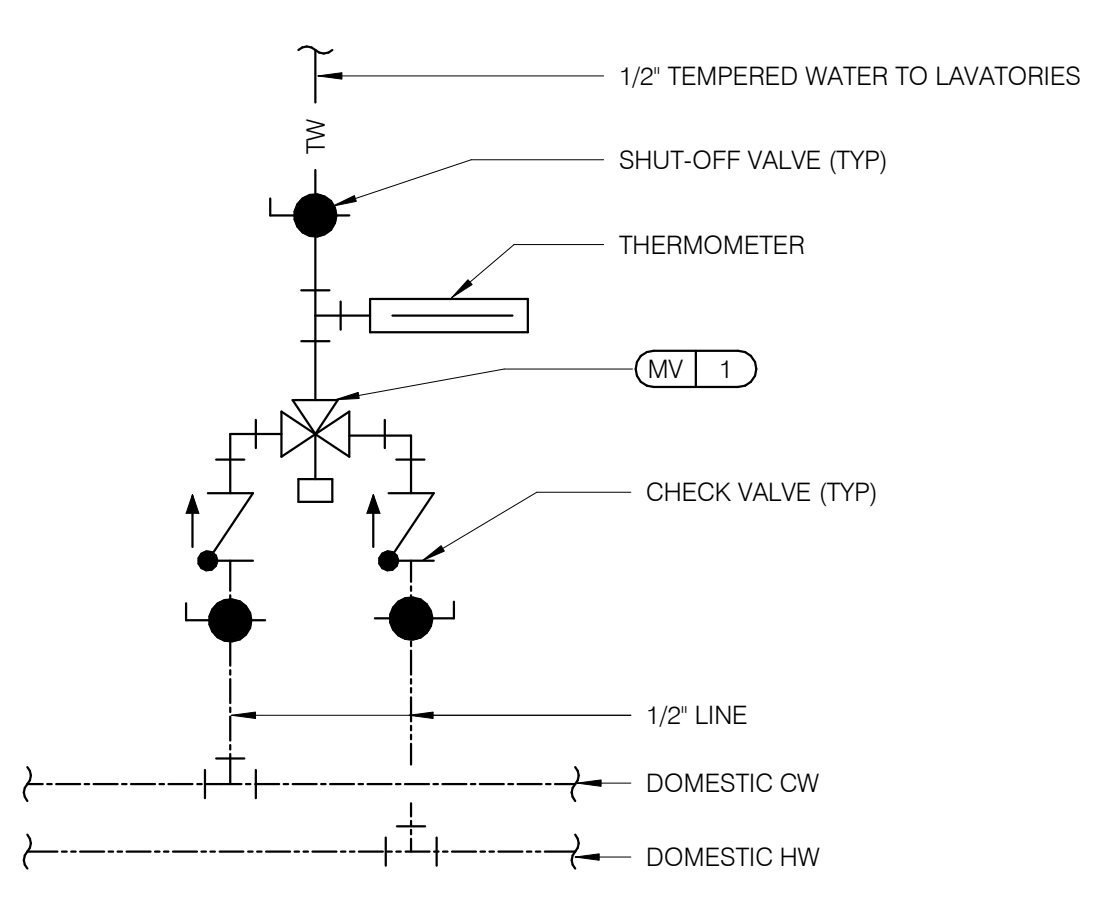
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TACO BELL
T40M-O
OPEN KITCHEN
MODERN EXPLORER

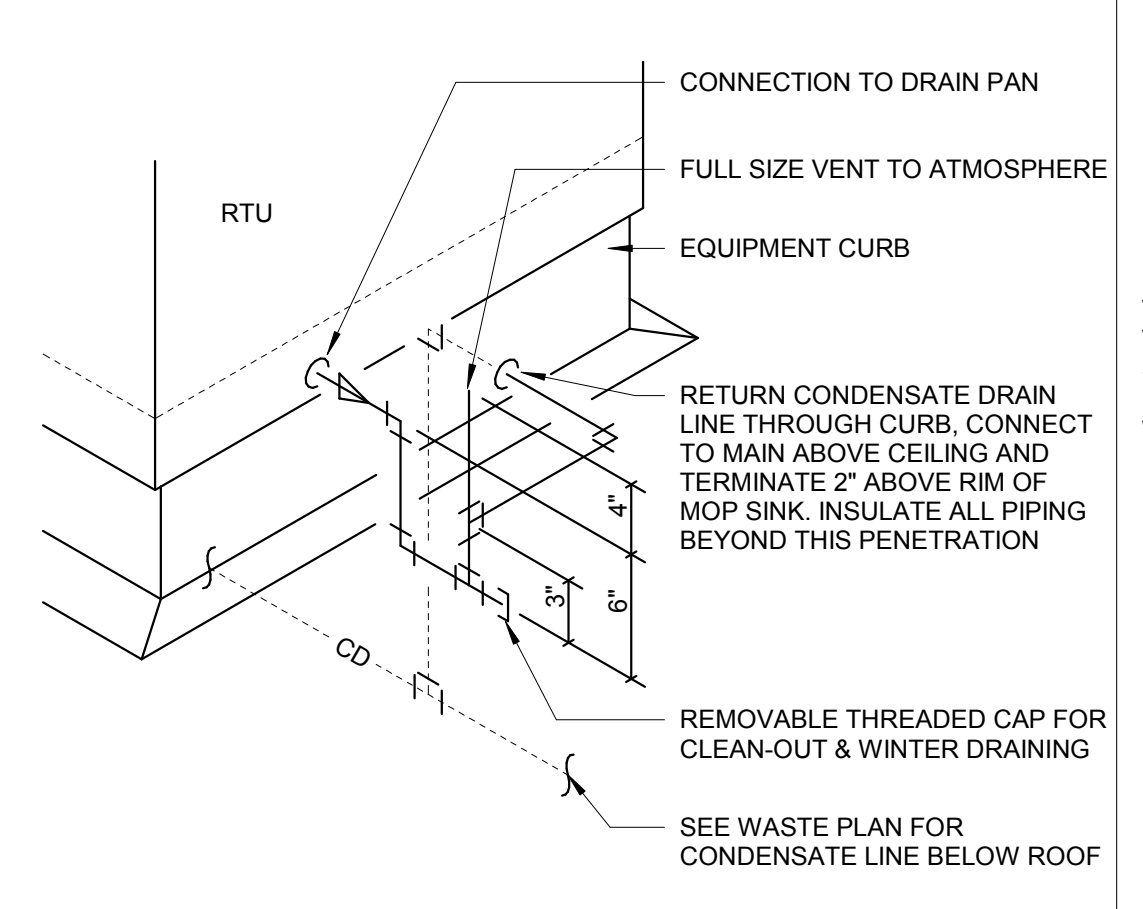
PLUMBING ROUGH-IN PLAN

P4.0

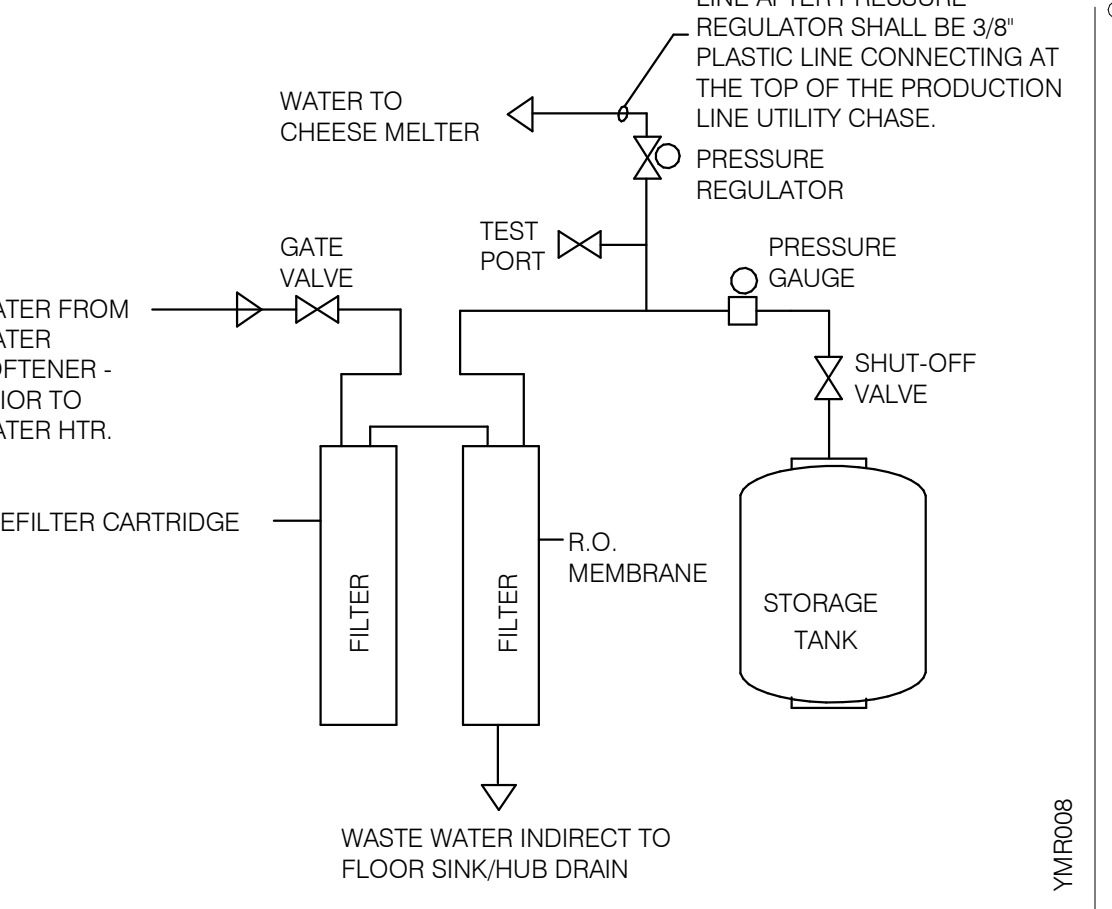
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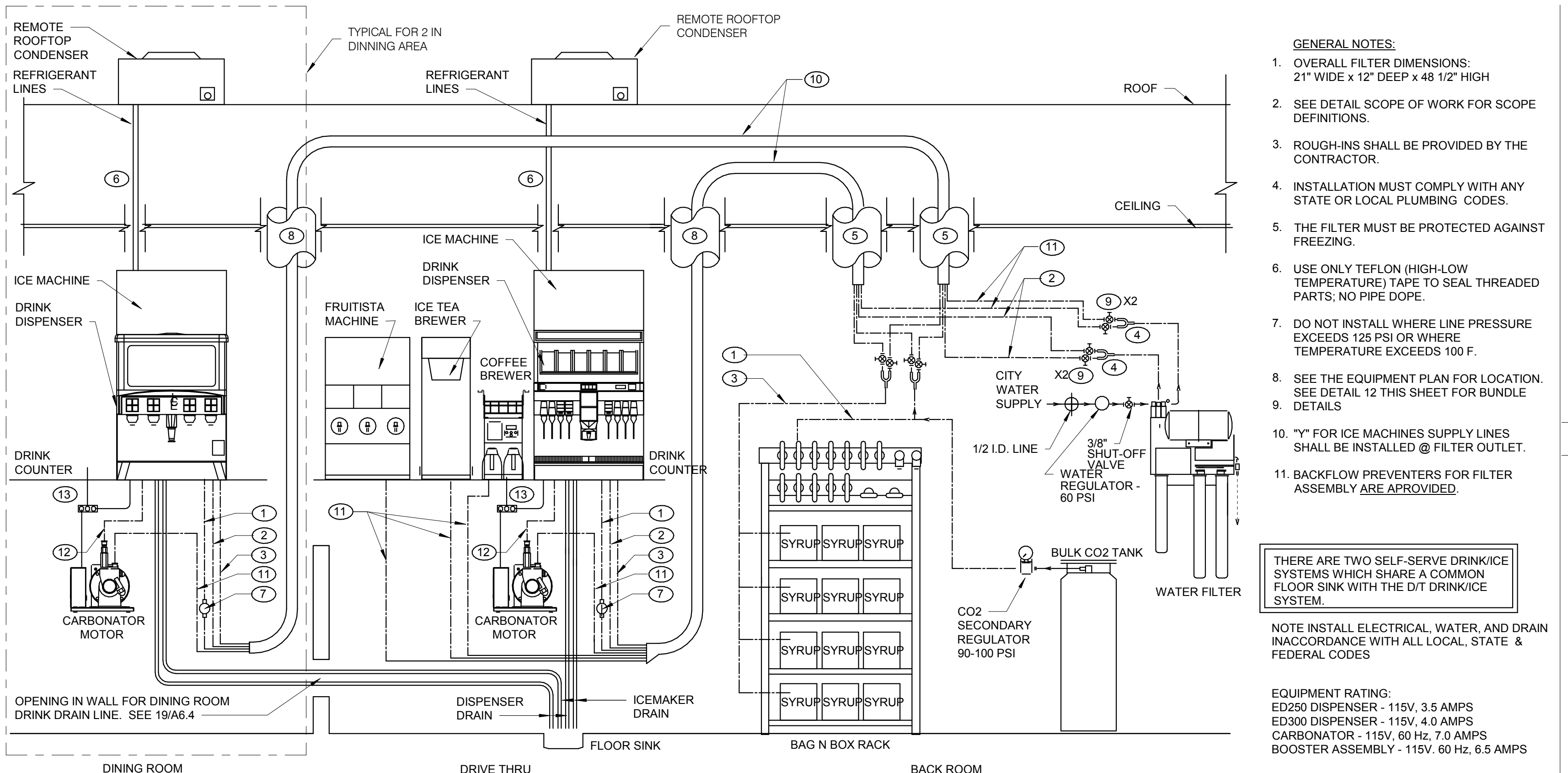
TEMPERING VALVE NTS **11**



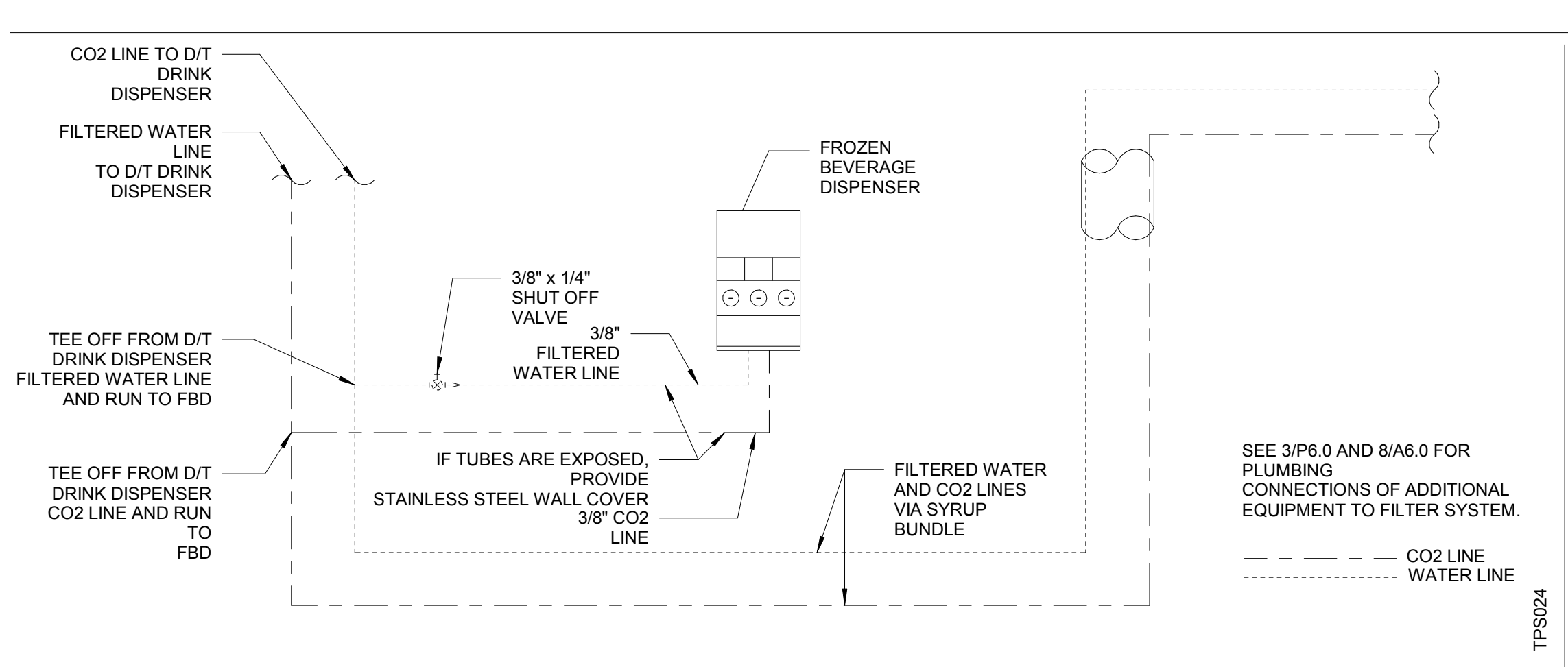
RTU CONDENSATE NTS **10**



REVERSE OSMOSIS SYSTEM NTS **9**



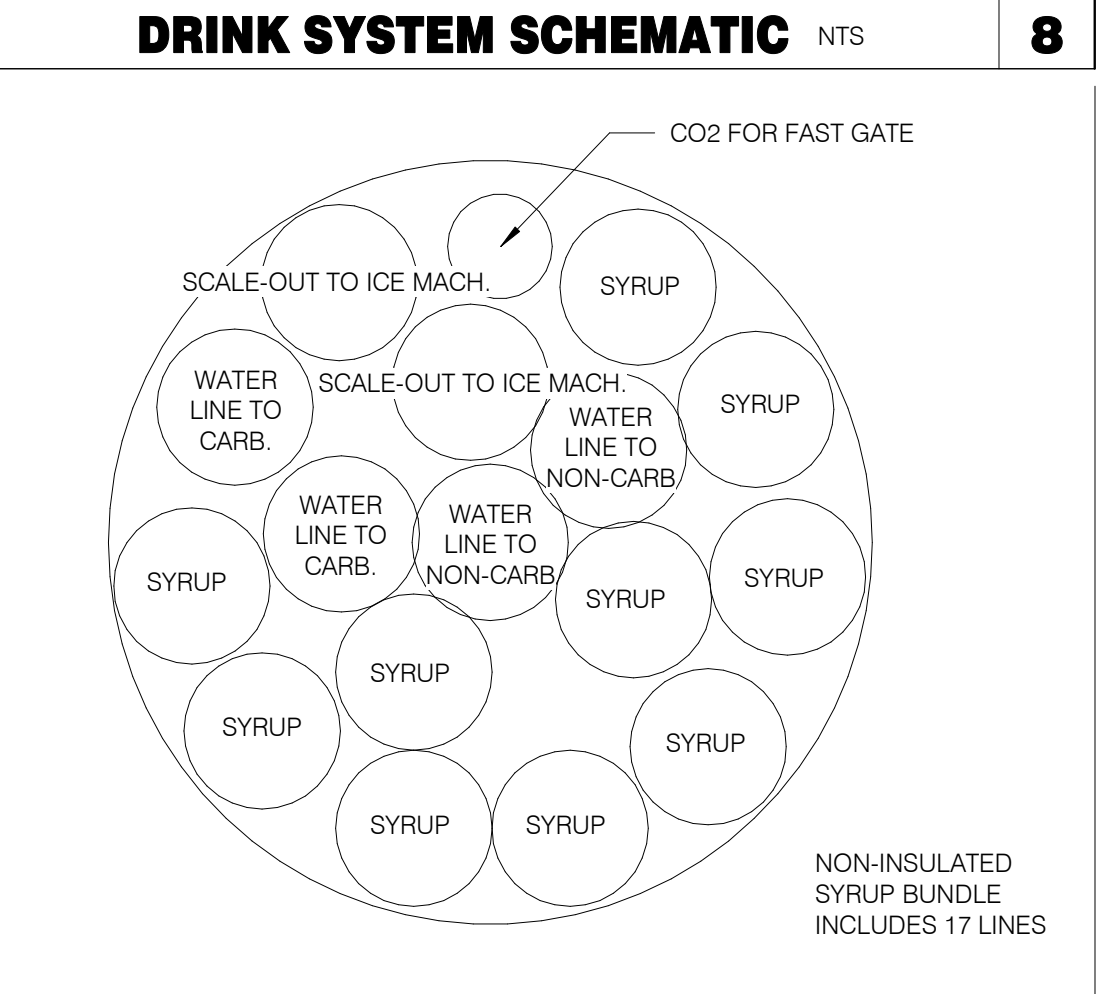
KEY NOTES:
 1 3/8" Co2 LINE 3 3/8" SYRUP LINES 5 BUNDLED TUBING CEILING PENETRATION. SEE DETAIL 1/A6.6 7 PRE-SET Co2 REGULATOR
 2 3/8" FILTERED WATER LINE - ICE MACHINES 4 1/2 X 3/8 X 3/8 "Y" 6 STAINLESS CHASE SURFACE MOUNTED FROM CEILING TO TOP OF ICE MACHINE 8 RECESSED 4" DIA. PVC VERTICAL CHASE FOR DRINK SYSTEM BUNDLED TUBING SYSTEM.
 9 3/8" SHUT OFF VALVES BARB FITTINGS 11 3/8" FILTERED WATERLINE - ICE TEA, FRUITISTA & DRINK MACHINES 12 3/8" LINE FOR PRESSURIZE FILTERED WATER
 13 ELECTRICAL FOR DRINK SYSTEM. SEE SHEET E3.0



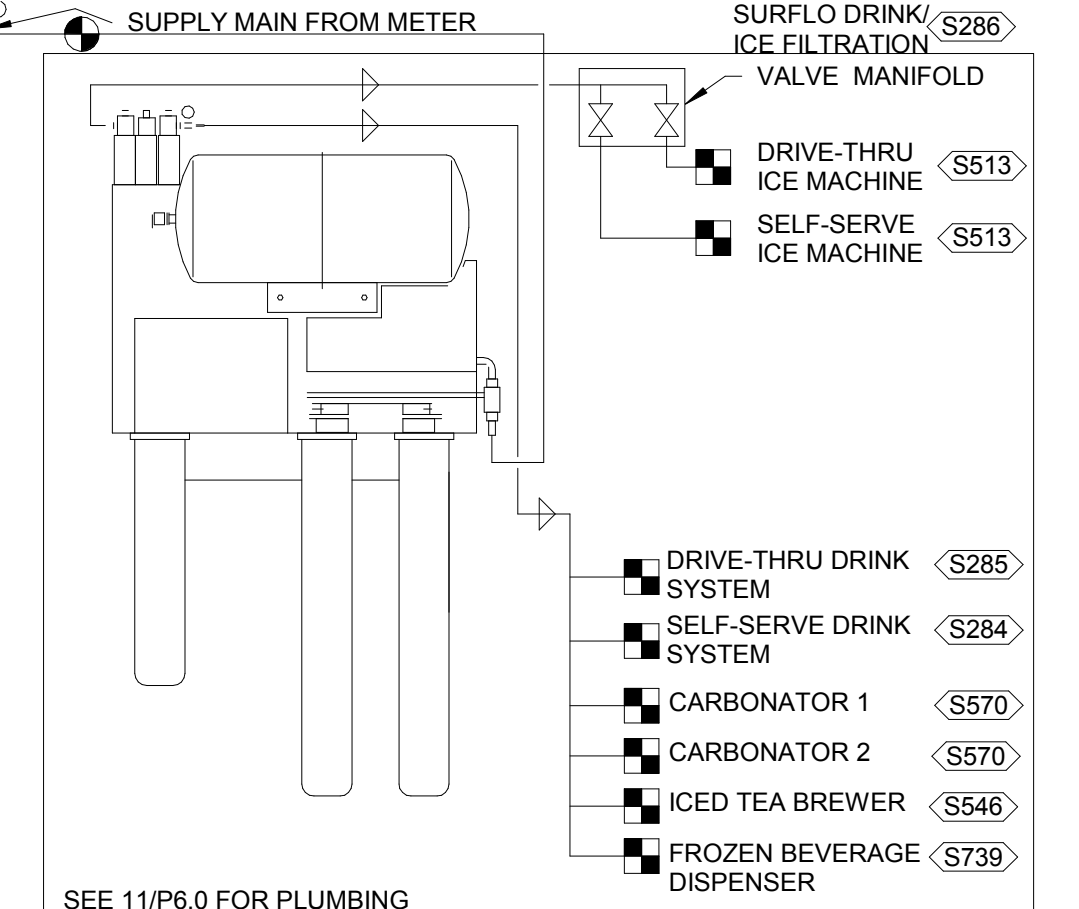
FBD DRINK SYSTEM DETAIL NTS **7**

GENERAL NOTES:
 1. OVERALL FILTER DIMENSIONS: 21" WIDE x 12" DEEP x 48 1/2" HIGH
 2. SEE DETAIL SCOPE OF WORK FOR SCOPE DEFINITIONS.
 3. ROUGH-INS SHALL BE PROVIDED BY THE CONTRACTOR.
 4. INSTALLATION MUST COMPLY WITH ANY STATE OR LOCAL PLUMBING CODES.
 5. THE FILTER MUST BE PROTECTED AGAINST FREEZING.
 6. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
 7. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
 8. SEE THE EQUIPMENT PLAN FOR LOCATION. SEE DETAIL 12 THIS SHEET FOR BUNDLE DETAILS
 9. DETAILS
 10. "Y" FOR ICE MACHINES SUPPLY LINES SHALL BE INSTALLED @ FILTER OUTLET.
 11. BACKFLOW PREVENTERS FOR FILTER ASSEMBLY ARE APPROVED.

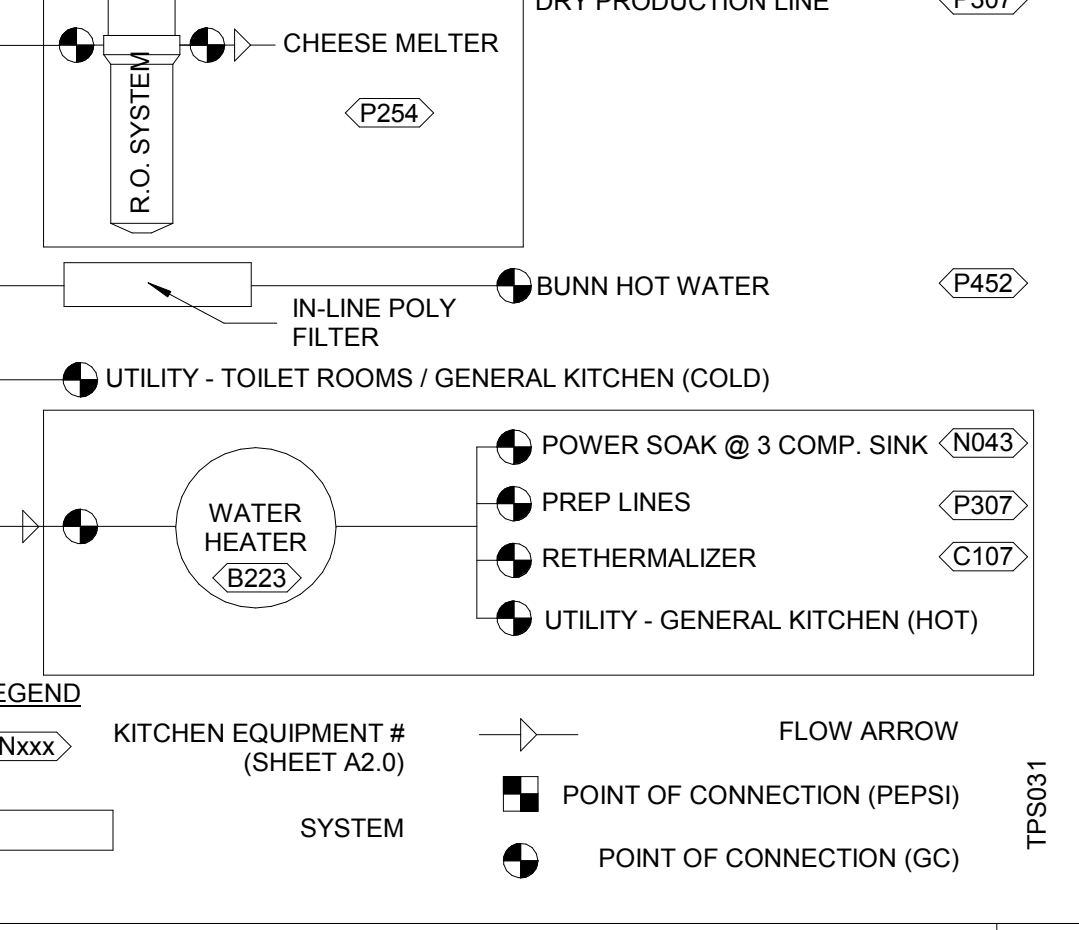
THERE ARE TWO SELF-SERVE DRINK/ICE SYSTEMS WHICH SHARE A COMMON FLOOR SINK WITH THE D/T DRINK/ICE SYSTEM.
 NOTE INSTALL ELECTRICAL, WATER, AND DRAIN IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL CODES
 EQUIPMENT RATING:
 ED250 DISPENSER - 115V, 3.5 AMPS
 ED300 DISPENSER - 115V, 4.0 AMPS
 CARBONATOR - 115V, 60 Hz, 7.0 AMPS
 BOOSTER ASSEMBLY - 115V, 60 Hz, 6.5 AMPS



SYRUP BUNDLE CONFIGURATION NTS **6**



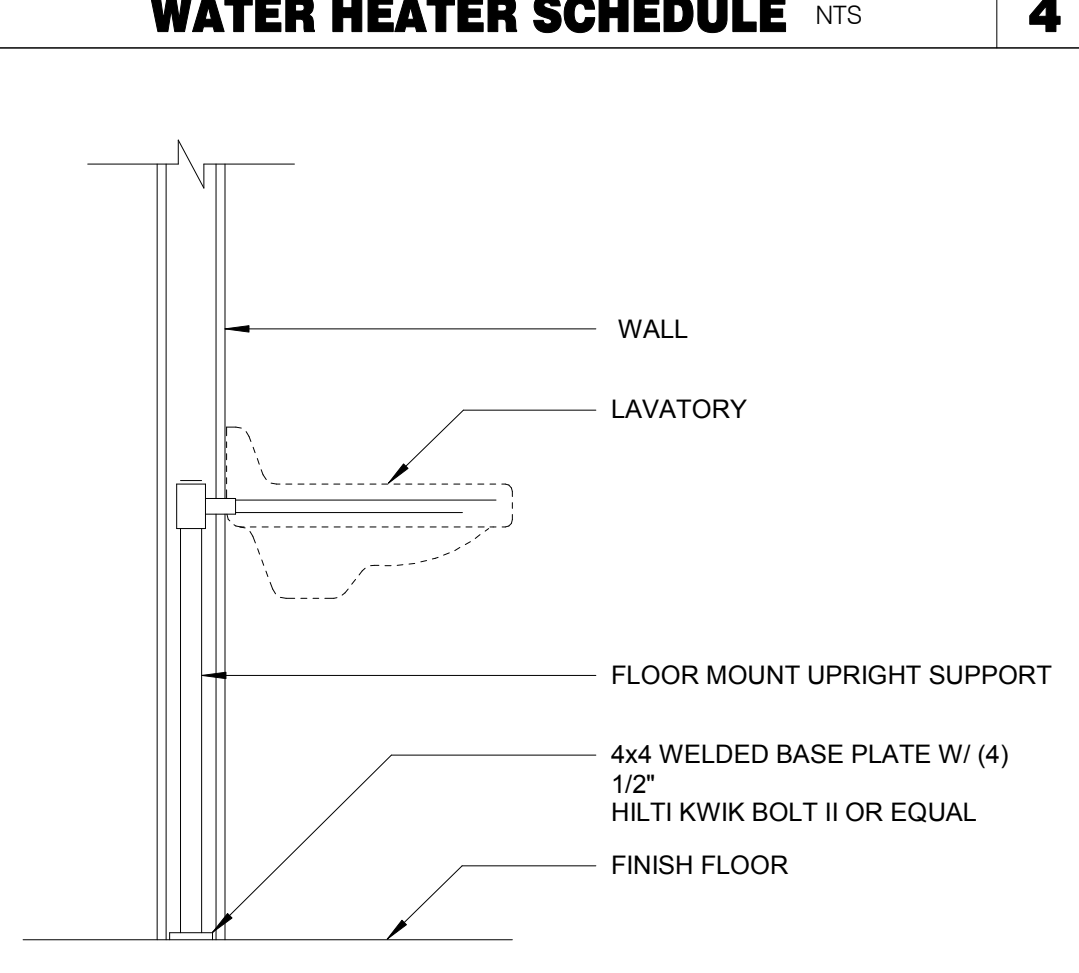
WATER HEATER SCHEDULE NTS **4**



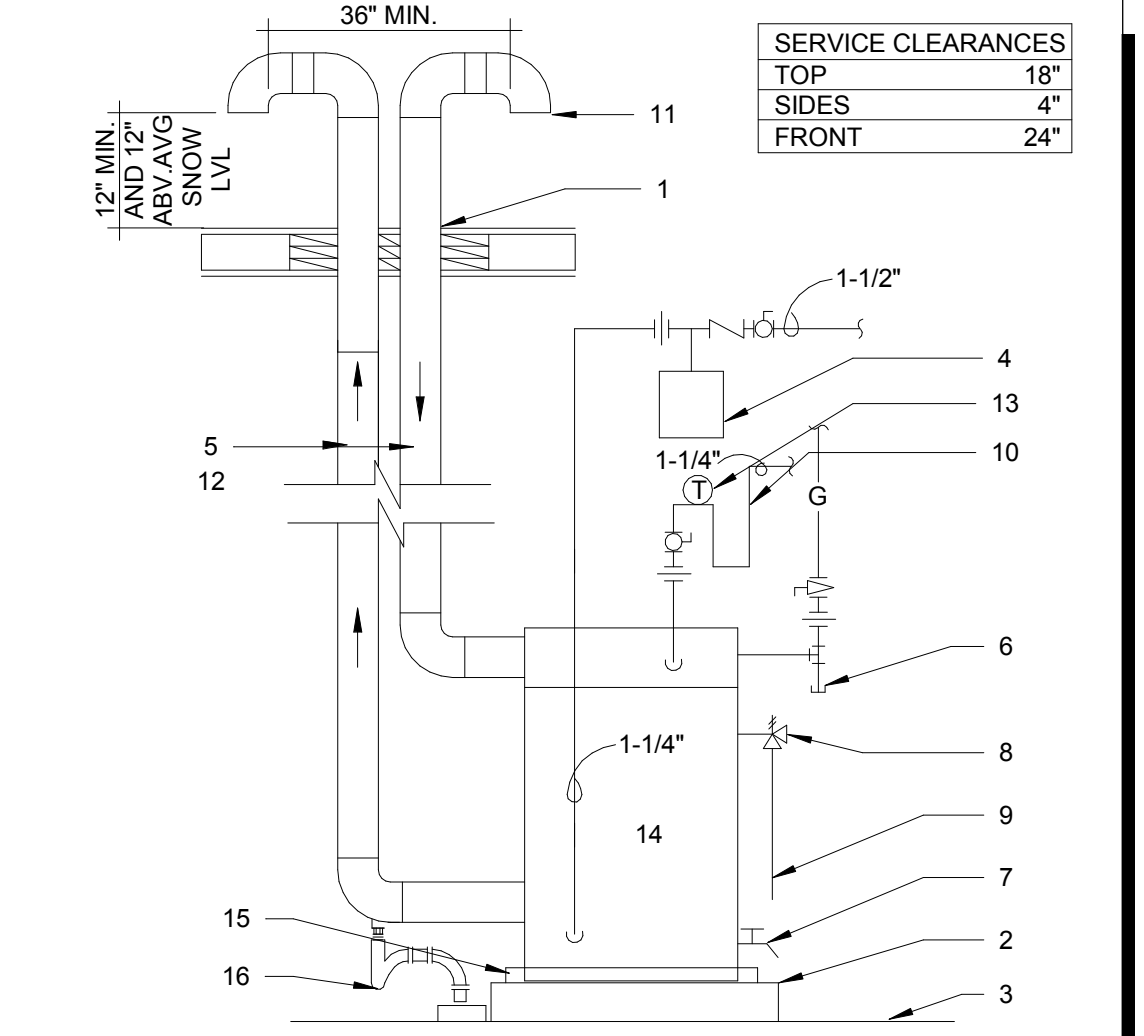
WATER HEATER NTS **2**

| 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 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



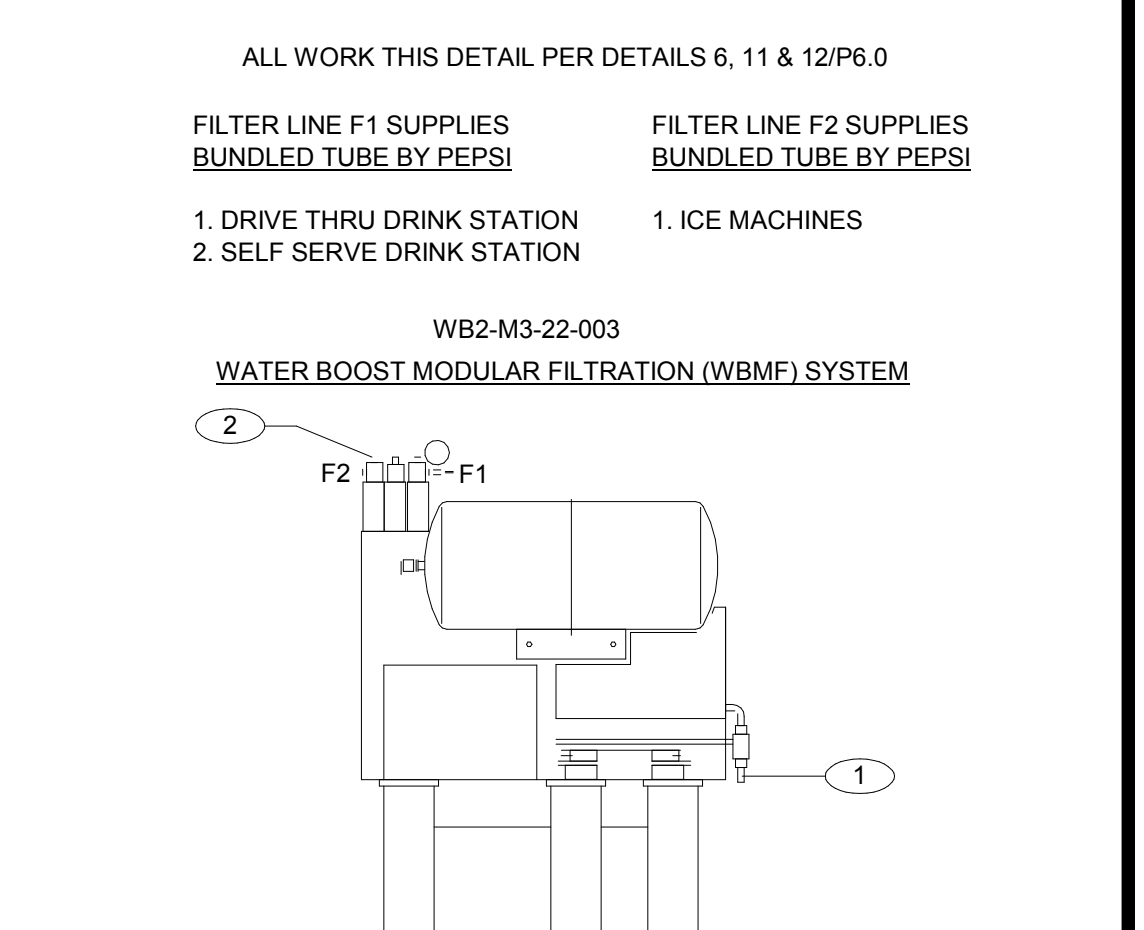
LAVATORY SUPPORT NTS **5**



SERVICE CLEARANCES
 TOP 18"
 SIDES 4"
 FRONT 24"

1 FLUE THRU ROOF
 2 4" CONCRETE PAD
 3 FINISHED FLOOR
 4 THERMAL EXPANSION TANK BY WATTS - SEE PLUMBING SCHEDULE - STRAP AND SUPPORT TO WALL.
 5 SCHEDULE 40 PVC, MINIMIZE TURNS AND TRANSITIONS.
 6 GAS COCK VALVE WITH FULL SIZE DIRT LEG
 7 3/4" DRAIN WITH VALVE & CAP
 8 COMBINATION TEMPERATURE AND PRESSURE RELIEF PER LOCAL CODE
 9 RUN T&P DISCHARGE FULL SIZE TO HUB DRAIN
 10 22" DEEP HEAT TRAP
 11 AIR INTAKE W/ INTERNAL INSECT SCREEN PROVIDED BY MFR.
 12 SUPPORT VENT PIPE RUNS EVERY 5'-0" VERTICALLY AND EVERY 3'-0" HORIZONTALLY.
 13 OUTLET THERMOMETER PROVIDED BY MFR. LOCATE WITHIN 12" OF W.H. OUTLET.
 14 SEE DETAIL 4/P6.0 FOR SCHEDULE OF ITEMS PROVIDED BY W.H. MFR.
 15 DRAIN PAN TO HUB DRAIN.
 16 P-TRAP AND LINE TO DRAIN PROVIDED BY MANUFACTURER. LEAVE AIR GAP BETWEEN BOTTOM OF TRAP AND DRAIN. SEE DETAIL 4/P2.0

WATER FILTER SYSTEM NTS **1**



ALL WORK THIS DETAIL PER DETAILS 6, 11 & 12/P6.0

1. DRIVE THRU DRINK STATION
 2. SELF SERVE DRINK STATION

1. ICE MACHINES
 2. SELF SERVE DRINK STATION

WB2-M3-22-003
WATER BOOST MODULAR FILTRATION (WBMF) SYSTEM

WATER FILTER SYSTEM NTS **1**

| DATE | DESCRIPTION |
|----------|-------------------|
| 05/31/18 | IFC |
| 02.16.18 | ISSUED FOR PERMIT |
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CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
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 BRAND DESIGNER:
 SITE NUMBER: 312262/442877
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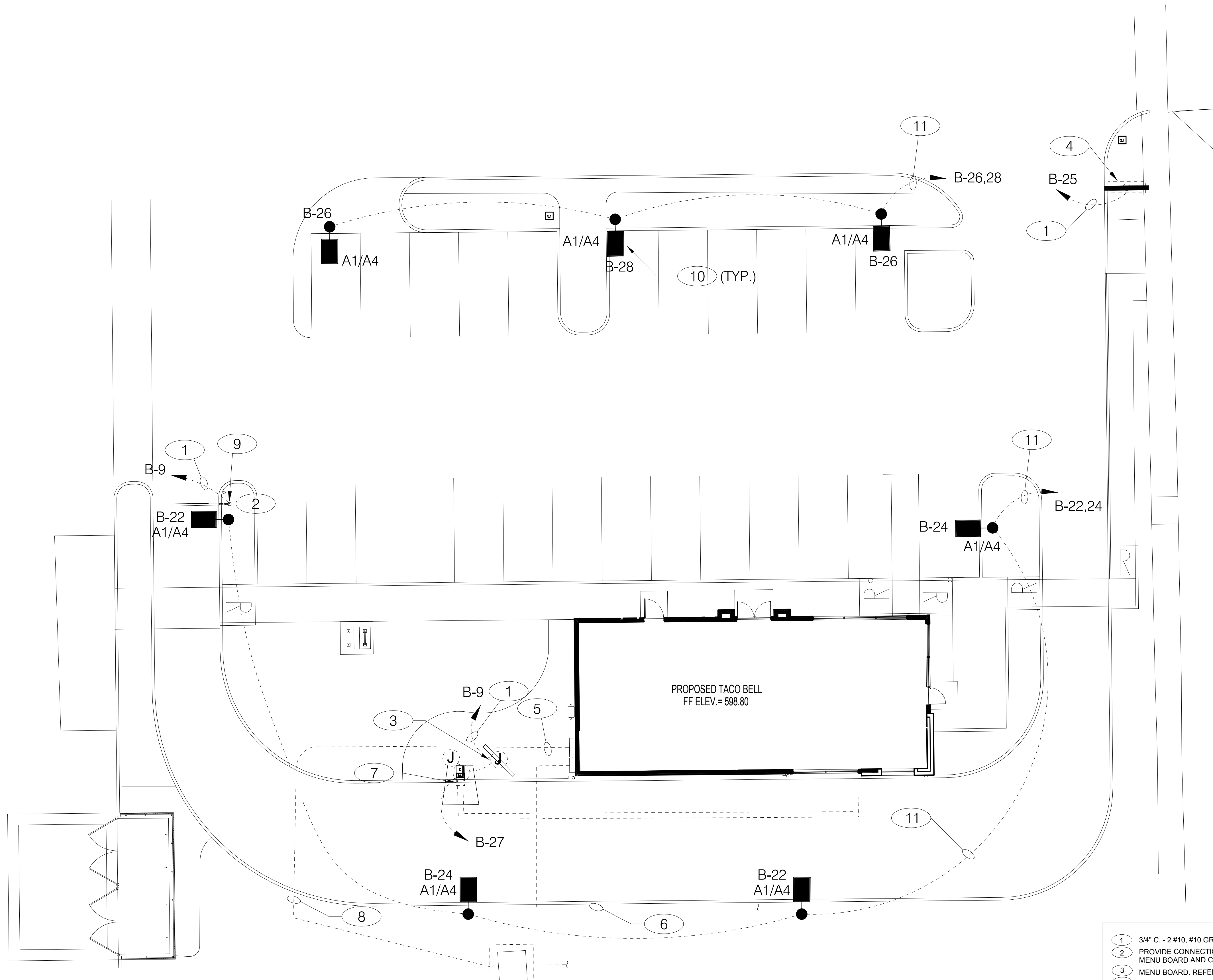
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TACO BELL
 T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

PLUMBING DETAILS

P6.0

PLOT DATE: 5/30/2018 3:24:45 PM



- 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.

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SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

Taco Bell
20779 E. 13 MILE RD.
ROSEVILLE, MI 48066



SITE ELECTRICAL PLAN

E1.0

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 | 51546 VA | -- |
| 2 | PANELBOARD B | | 3 | 225 A | 200 A | 22342 VA | -- |
| 3 | PANELBOARD D | | 3 | 400 A | 400 A | 70716 VA | -- |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| Total Conn. Load: | | | | | | 144603 VA | |
| Total Amps: | | | | | | 401 A | |
| Load Classification | | Connected Load | Demand Factor | Estimated Demand | Panel Totals | | |
| HVAC | | 14545 VA | 100.00% | 14545 VA | | | |
| Kitchen | | 10316 VA | 65.00% | 6705 VA | Total Conn. Load: 144603 VA | | |
| Lighting | | 15558 VA | 125.00% | 19448 VA | Total Est. Demand: 144882 VA | | |
| Other | | 19037 VA | 100.00% | 19037 VA | Total Conn. Current: 401 A | | |
| Power | | 58369 VA | 100.00% | 58369 VA | Total Est. Demand Current: 402 A | | |
| Receptacle | | 7384 VA | 100.00% | 7384 VA | | | |
| Refrigeration | | 18894 VA | 100.00% | 18894 VA | | | |
| Spare | | 500 VA | | 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 | | 20 A | | DRIVE THRU POS/ORDER ENTRY 1 | 4 |
| 5 | OFFICE QUAD RECEPTACLE | | 20 A | 1 | | | 680 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 | | 20 A | 2 | | | 2013 VA | 2013 VA | 2 | 30 A | P-452 HOT WATER SYSTEM | 18 |
| 19 | | | 20 A | 1 | 2013 VA | 1440 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) | | 15 A | 2 | | 1248 VA | 500 VA | | 1 | 20 A | OCB SWITCH | 28 |
| 29 | | | | | | | 1248 VA | 1248 VA | | | | 30 |
| 31 | S-027 HEATED CABINET | | 20 A | 1 | 180 VA | 1248 VA | | | 2 | 15 A | EVO CABINET 2 (VLINE 1) | 32 |
| 33 | S-027 HEATED CABINET | | 20 A | 1 | | 180 VA | | | | | | 34 |
| 35 | REFRIGERATOR (VLINE 1) | | 15 A | 1 | | | 960 VA | | | | | 36 |
| 37 | HOT WELL W/ GRILL | | 30 A | 2 | 2309 VA | 1664 VA | | | | | | 38 |
| 39 | | | | | | | | | 2 | 20 A | C-250 (VLINE 1) CHEESE MELTER | 40 |
| 41 | C-250 (VLINE 2) CHEESE MELTER | | 20 A | 2 | | | 1664 VA | 2196 VA | 1 | 30 A | C-203 (VLINE 2) CLAM | 42 |
| 43 | | | | | | | | | 1 | 30 A | | 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... | | 20 A | 1 | | | 600 VA | 360 VA | 1 | 20 A | SAFE W/TOUCHSCREEN... | 54 |
| Total Load: | | | | | 20610 VA | 13750 VA | 17186 VA | | | | | |
| Total Amps: | | | | | 176 A | 115 A | 148 A | | | | | |
| Load Classification | | Connected Load | Demand Factor | Estimated Demand | Panel Totals | | | | | | | |
| Kitchen | | 1500 VA | 100.00% | 1500 VA | | | | | | | | |
| Power | | 45822 VA | 100.00% | 45822 VA | Total Connected Load: 51546 VA | | | | | | | |
| Receptacle | | 4224 VA | 100.00% | 4224 VA | Total Estimated Demand: 51546 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 | | 1000 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 | 968 VA | | 1 | 20 A | SITE LIGHTING | 22 |
| 23 | SPARE | | 20 A | 1 | | | 0 VA | 484 VA | 1 | 20 A | SITE LIGHTING | 24 |
| 25 | LTG-SITE-PYLON SIGN | | 20 A | 1 | 1200 VA | 484 VA | | | 1 | 20 A | SITE LIGHTING | 26 |
| 27 | LTG-SITE-S240 OCB & SPEAKER POST | | 20 A | 1 | | 130 VA | 484 VA | | 1 | 20 A | SITE LIGHTING | 28 |
| 29 | EF-1 | | 20 A | 1 | | | 1120 VA | 660 VA | 1 | 20 A | EF-2 | 30 |
| 31 | EF-3 | | 20 A | 1 | 660 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: | | | | | 4356 VA | 7322 VA | 10664 VA | | | | | |
| Total Amps: | | | | | 36 A | 65 A | 93 A | | | | | |
| Load Classification | | Connected Load | Demand Factor | Estimated Demand | Panel Totals | | | | | | | |
| HVAC | | 2440 VA | 100.00% | 2440 VA | | | | | | | | |
| Lighting | | 15558 VA | 125.00% | 19448 VA | Total Connected Load: 22342 VA | | | | | | | |
| Other | | 14 VA | 100.00% | 14 VA | Total Estimated Demand: 26232 VA | | | | | | | |
| Power | | 2330 VA | 100.00% | 2330 VA | Total Connected Current: 62 A | | | | | | | |
| Receptacle | | 1500 VA | 100.00% | 1500 VA | Total Estimated Demand Current: 73 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:

- PROVIDE LOCK-ON BREAKER.
- CIRCUITS TO BE WIRED THROUGH COMBINED CONTROL BOX CONTACTOR. SEE SHEETS 6.0 THROUGH 6.3.

| Date | By | Comments |
|----------|-----|-------------------|
| 05/31/18 | JFC | |
| 04/20/18 | | BUILDING COMMENTS |
| 02.16.18 | | ISSUED FOR PERMIT |

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

Taco Bell

20779 E. 13 MILE RD.
ROSELVILLE, MI 48066

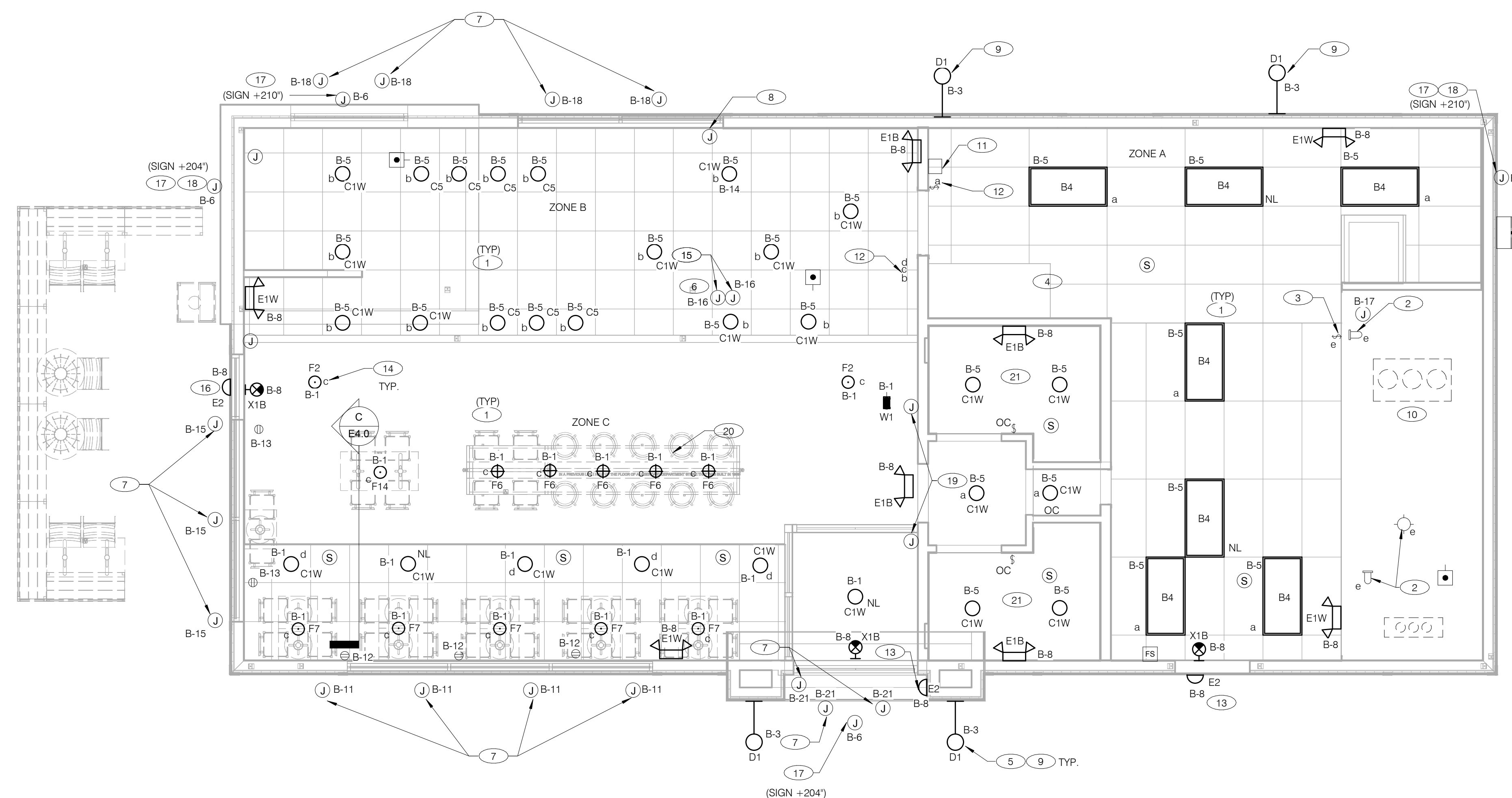
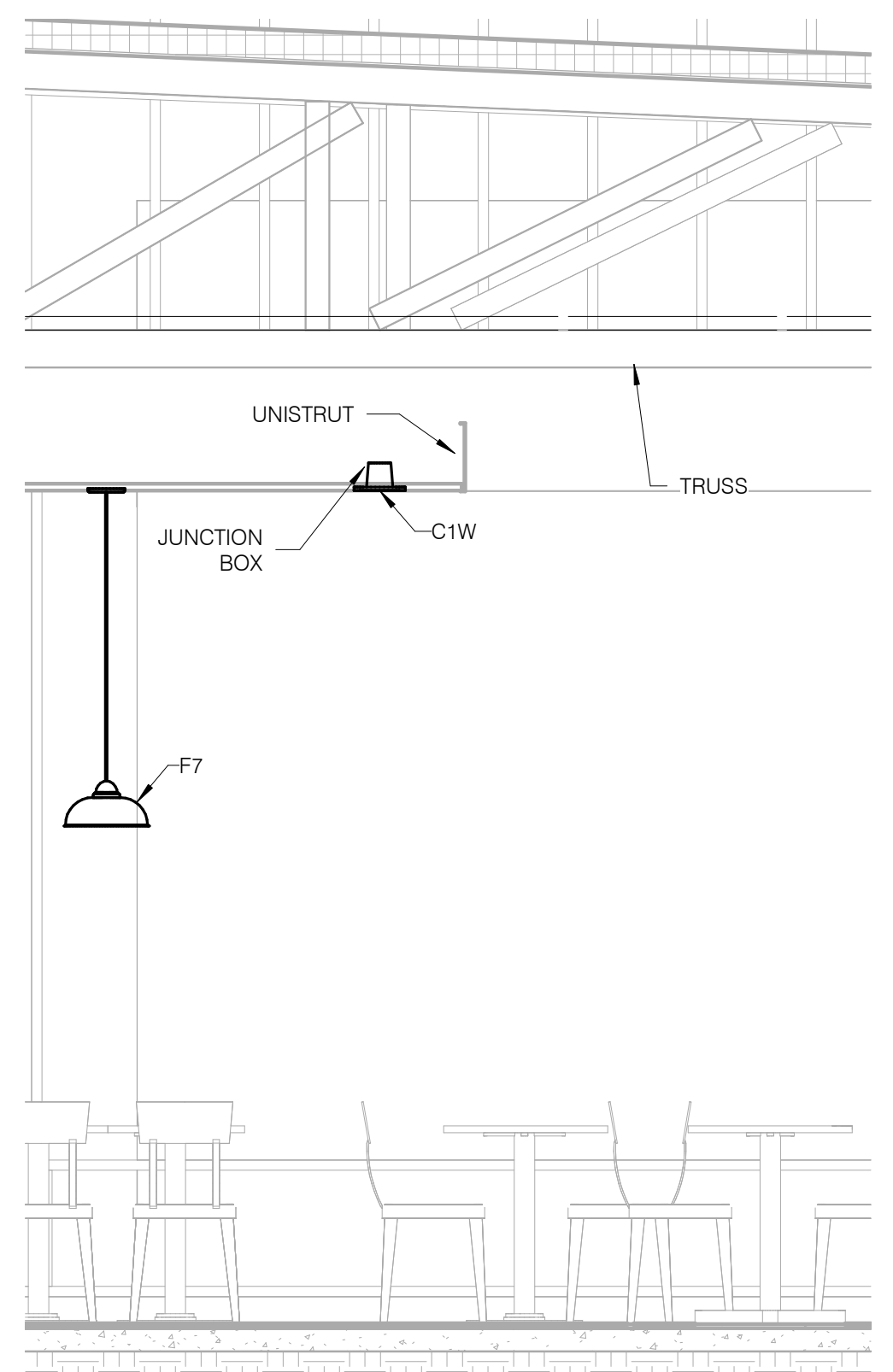


T40M-O
OPEN KITCHEN
MODERN EXPLORER

ELECTRICAL SCHEDULES

E2.1

PLOT DATE: 5/30/2018 3:24:22 PM



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.

PENDANT MOUNTING DETAIL NTS

ELECTRICAL LIGHTING PLAN 1/4" = 1'-0"

| NO. | QTY | LOCATION | MANUFACTURER | CATALOG NUMBER | DESCRIPTION | MOUNTING | LAMP #/TYPE | BALLAST TYPE | ELECTRICAL DATA | REMARKS |
|-----|-----|------------------------|-------------------|---|--|---|------------------------------------|--------------|-------------------------------|---|
| A1 | 7 | PARKING | LSI INDUSTRIES | XALM-FT-LED-HO-40-IL | LED AREA LIGHTS FORWARD THROW, BRONZE FINISH | | LED | | 120 V/1-193 VA | |
| A4 | 7 | PARKING | LSI INDUSTRIES | 4SQB3-S07G-25-S-BRZ | 4" SQ 7GA 25FT POLE SINGLE DRILL | | LED | | 120 V/1-0 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 | RAF-6-23-30-W | LED DOWNLIGHT 23W 6" RECESSED 30K 80CRI WHITE TRIM | RECESSED | LED | NA | 120 V/1-23 VA | |
| D1 | 4 | EXTERIOR SCOFF | TROY | B2772 | 17"x14" WALL MOUNT SCONCE, 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 | BOH | 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 | |
| F2 | 2 | DINING ROOM | SPECTRUM LIGHTING | SPOC310LEDXT10L27KWDE1 GL CP13 PM36" MB 3 | LED PENDANT - 3" | | 1/LED | | 120 V/1-9 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 | FOH | HI-LITES | H24212-96-CB15-20WLBL-60P | 12" GALVANIZED PENDANT WITH BLACK CORD AND CANOPY MED BASE SOCKET | | 1/LED 10A19D0027K | | 120 V/1-20 VA | |
| F14 | 1 | LOUNGE PENDANT | BASELITE | HD2478-EXT/59-INT/15LCBLC/B LC25 WINC MAX | 24" DEEP BOWL PENDANT, BLACK EXTERIOR/ COOPERTONE INTERIOR BLACK CORD AND CANOPY/MEDIUM BASE | PENDANT, 6'-0" A.F.F. | 1/LED | NA | 120 V/1-42 VA | |
| W1 | 1 | 172 | ConTech Lighting | CTL84C2M27D-P-FA-84-B-LF16SL 60MM | Stealth LED Wall Lighter Track Fixture | | 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 | |

- 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 (J-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.

KEY NOTES - ELECTRICAL LIGHTING PLAN AND SCHEDULE NTS

| DATE | BY | DESCRIPTION |
|----------|-----|-------------------|
| 05/31/18 | IFC | |
| 04/20/18 | | BUILDING COMMENTS |
| 02.16.18 | | ISSUED FOR PERMIT |

CONTRACT DATE: 01.08.18
 BUILDING TYPE: T40M-O
 PLAN VERSION: DEC 2017
 BRAND DESIGNER:
 SITE NUMBER: 312262/442877
 STORE NUMBER: 2016088.09

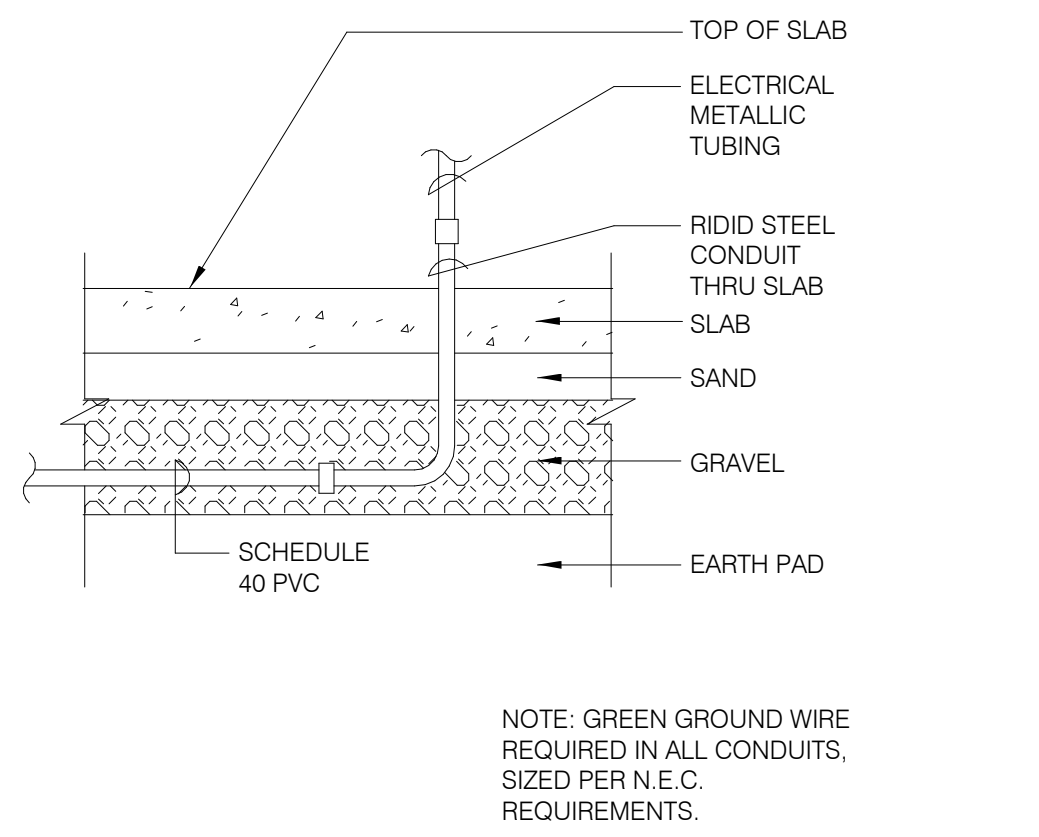
Taco Bell
 20779 E. 13 MILE RD.
 ROSEVILLE, MI 48066

TACO BELL
 T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

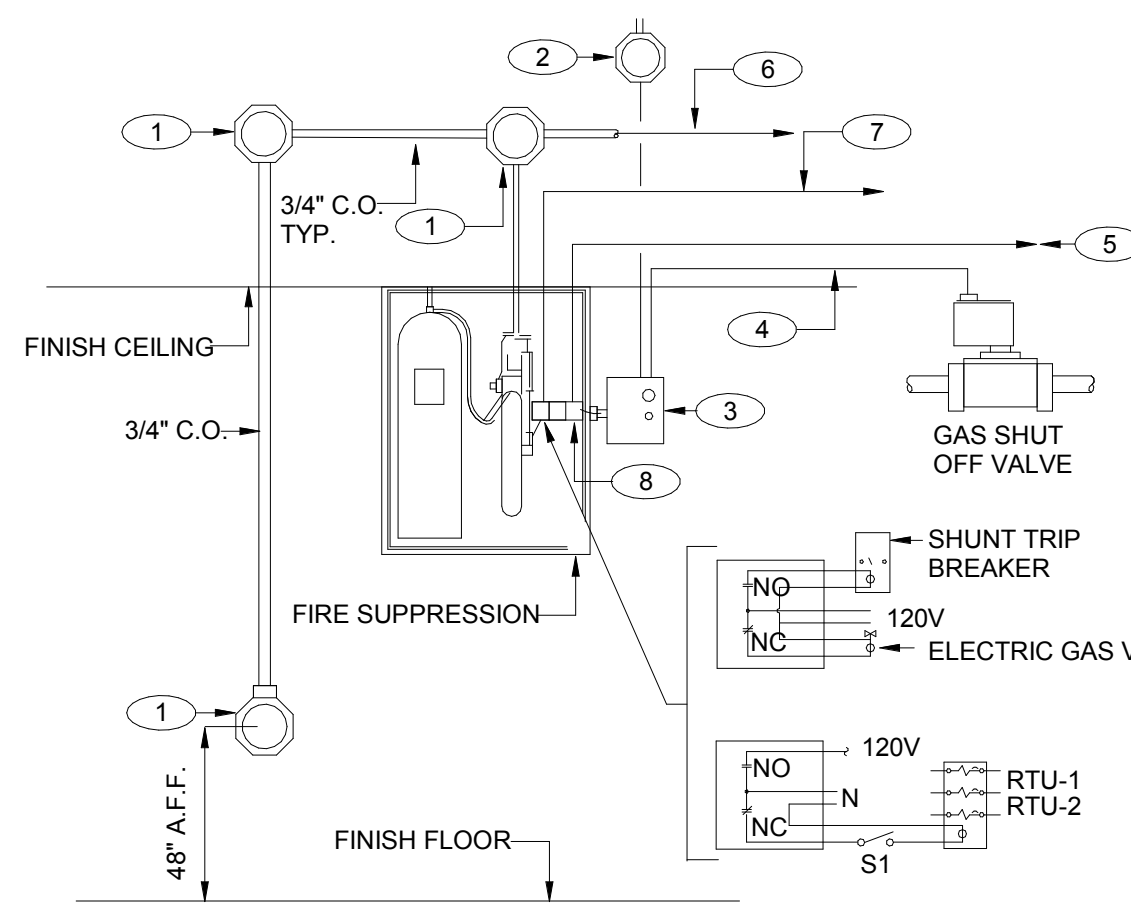
LIGHTING PLAN AND DETAILS

E4.0

PLOT DATE: 5/30/2018 3:24:35 PM

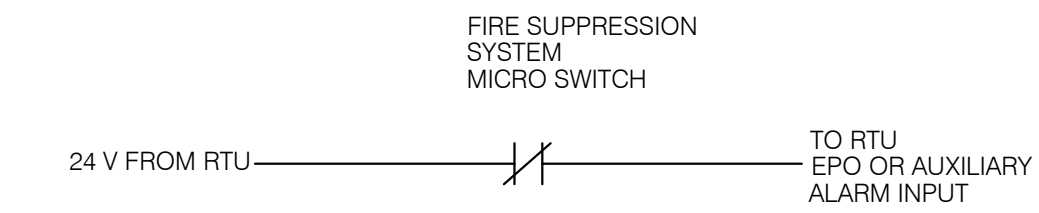


UNDER SLAB CONDUIT1 12" = 1'-0" **6**

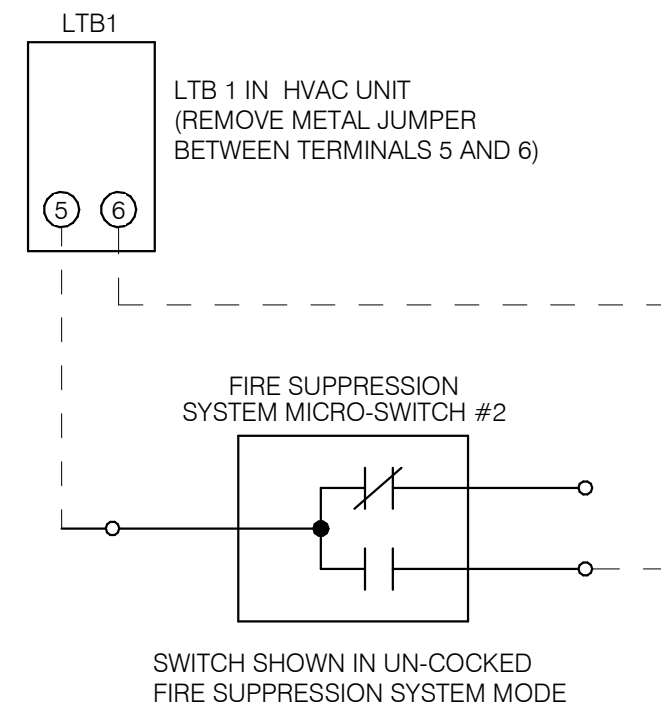


- GENERAL NOTES:**
 1. REFER TO SHEET M3.0
- KEY NOTES:**
- PROVIDE 4" OCTAGONAL J-BOX.
 - PROVIDE J-BOX AND 110 V CIRCUIT. REFER TO EQUIPMENT SCHEDULE/FLOOR PLAN FOR CIRCUIT ASSIGNMENT. INTERCONNECT TO MANUAL RESET RELAY THROUGH MICROSWITCH.
 - MANUAL RESET RELAY FURNISHED WITH UNIT INSTALLED BY E.C.
 - PROVIDE 1/2" C WITH CONTROL CABLE. MAKE INTERCONNECTIONS TO VALVE AND RESET RELAY.
 - PROVIDE 1/2" C WITH CONTROL CABLE. MAKE INTERCONNECTIONS TO EXHAUST & SUPPLY FAN INTERFACE THROUGH MICROSWITCH ON HOOD.
 - CABLE AND CONNECTION TO FUSIBLE LINKS AT EXHAUST HOOD BY K.E.C.
 - PROVIDE INTERCONNECTION TO "SHUNT TRIP" BREAKER AT PANEL AND MICROSWITCH AT HOOD.
 - SLOT FOR SNAP ACTION MICRO-SWITCH. UP TO FOUR SWITCHES AVAILABLE FOR HOOK-UP.
 SWITCH 1: GAS SHUT-OFF VALVE.
 SWITCH 2: EXH/S.
 SWITCH 3: SHUNT TRIP BREAKER IN ELEC PANEL.

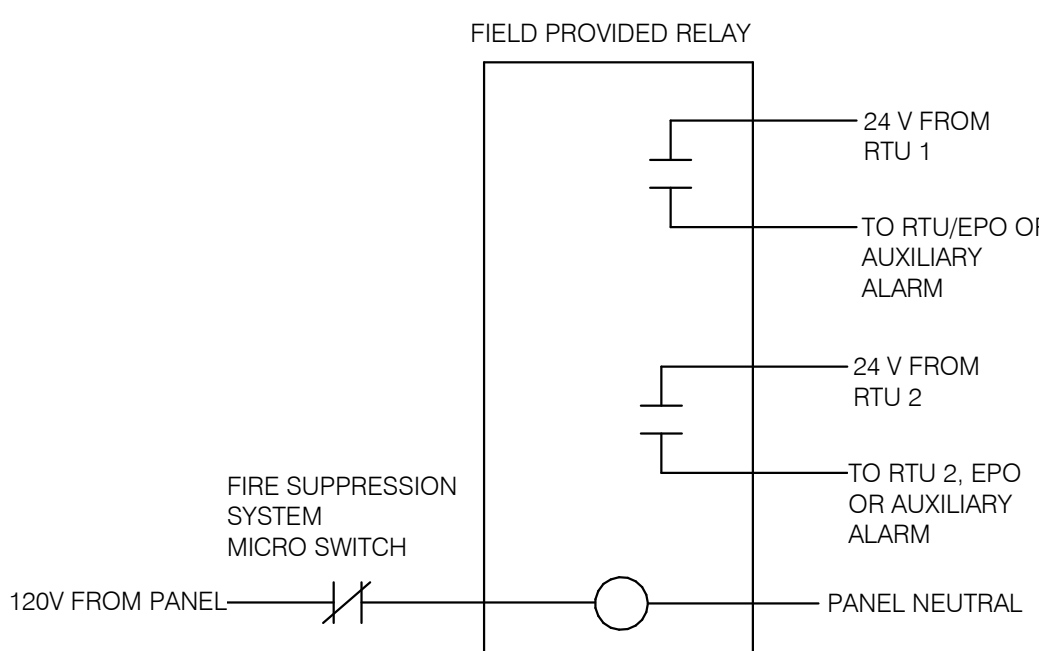
FIRE SUPPRESSION SYSTEM WIRING DIAGRAM1 12" = 1'-0" **4**



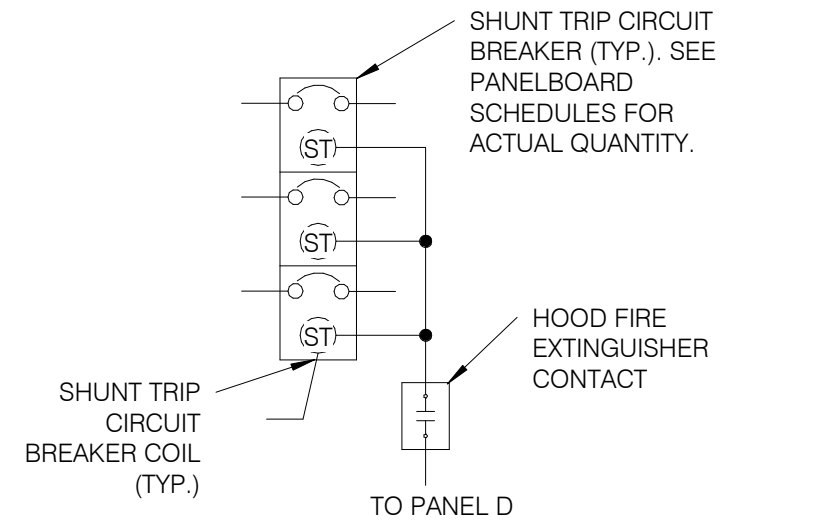
SINGLE UNIT SHUTDOWN N.T.S. **7**



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

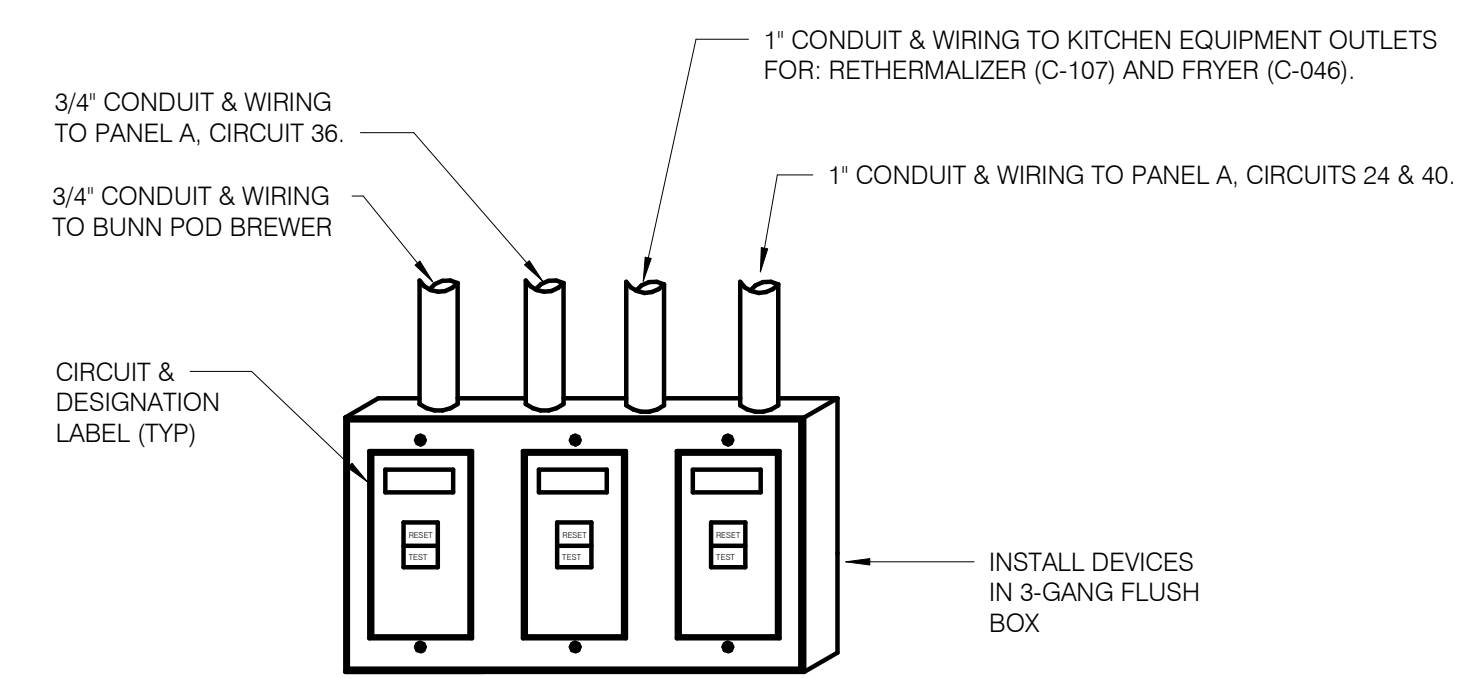


MULTI UNIT SHUTDOWN N.T.S. **8**



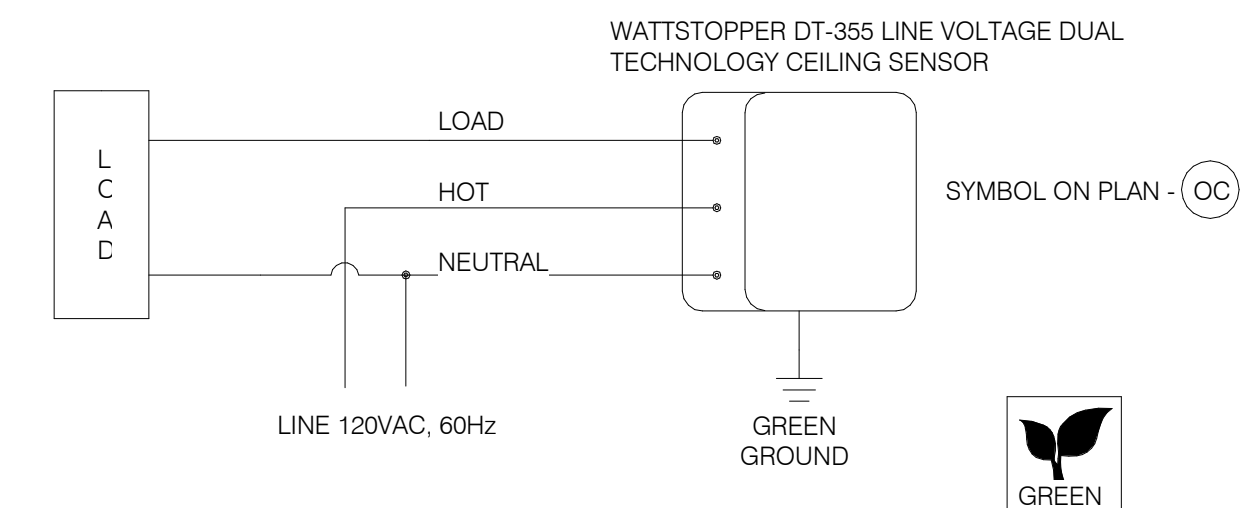
SEQUENCE OF OPERATION:
 UPON ACTIVATION OF ANY HOOD FIRE SUPPRESSION SYSTEM RELAY, A RELAY IN THAT FIRE SUPPRESSION SYSTEM SHALL CAUSE ALL SHUNT TRIP CIRCUIT BREAKERS TO OPERATE, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD. EXHAUST FANS SHALL NOT BE AFFECTED BY THIS ACTION AND SHALL CONTINUE TO BE CONTROLLED AS INDICATED IN THE SEQUENCE OF OPERATIONS INDICATED IN DETAIL 2/E6.0.

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



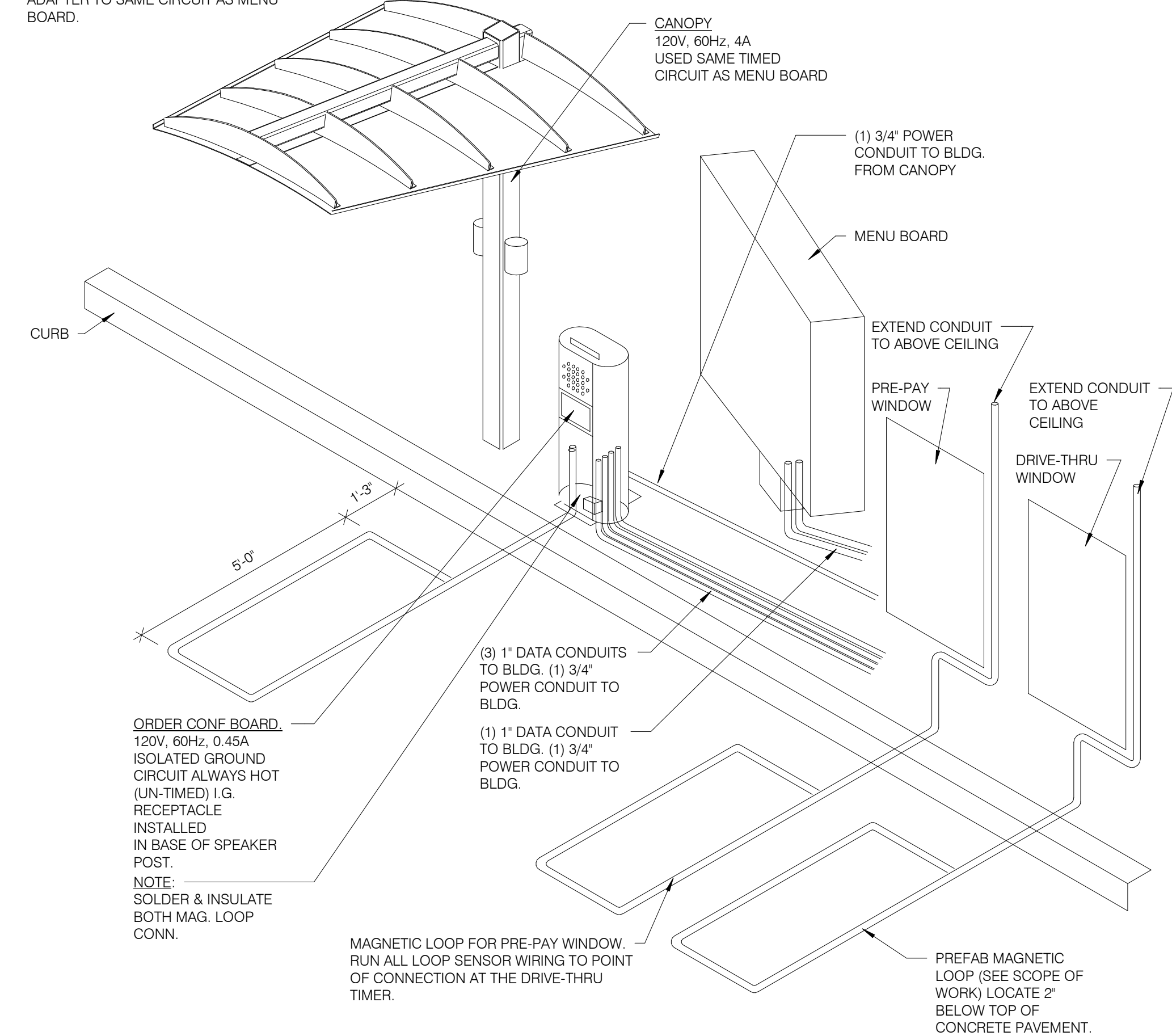
- NOTES:**
- DEAD FRONT GFCI DEVICES ARE REQUIRED FOR KITCHEN EQUIPMENT REQUIRING BOTH A SHUNT TRIP BREAKER AND GFCI PROTECTION.
 - REFER TO SHEET E3.0 FOR LOCATION OF DEAD FRONT GFCI DEVICES.
 - PROVIDE LABEL ON DEVICES WITH CIRCUIT NUMBER AND LOAD DESIGNATION.

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



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

12V SOLAR PANEL OUTPUT TO BATTERY - REFER TO EVERBRITE INSTALLATION INSTRUCTIONS. CIRCUIT POWER ADAPTER TO SAME CIRCUIT AS MENU BOARD.



ORDER CONE BOARD:
 120V, 60Hz, 0.45A ISOLATED GROUND CIRCUIT ALWAYS HOT (UN-TIMED) I.G. RECEPTACLE INSTALLED IN BASE OF SPEAKER POST.
 NOTE: SOLDER & INSULATE BOTH MAG. LOOP CONN.

MAGNETIC LOOP FOR PRE-PAY WINDOW. RUN ALL LOOP SENSOR WIRING TO POINT OF CONNECTION AT THE DRIVE-THRU TIMER.

PREFAB MAGNETIC LOOP (SEE SCOPE OF WORK) LOCATE 2" BELOW TOP OF CONCRETE PAVEMENT.

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

| REV | DATE | BY | DESCRIPTION |
|----------|----------|-----|-------------------|
| 05/31/18 | | JFC | |
| A | 04/20/18 | | BUILDING COMMENTS |
| | | | |
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CONTRACT DATE: 01.08.18
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 20779 E. 13 MILE RD.
 ROSELVILLE, MI 48066



T40M-O
 OPEN KITCHEN
 MODERN EXPLORER

ELECTRICAL DETAILS

E7.0