# TACO BELL

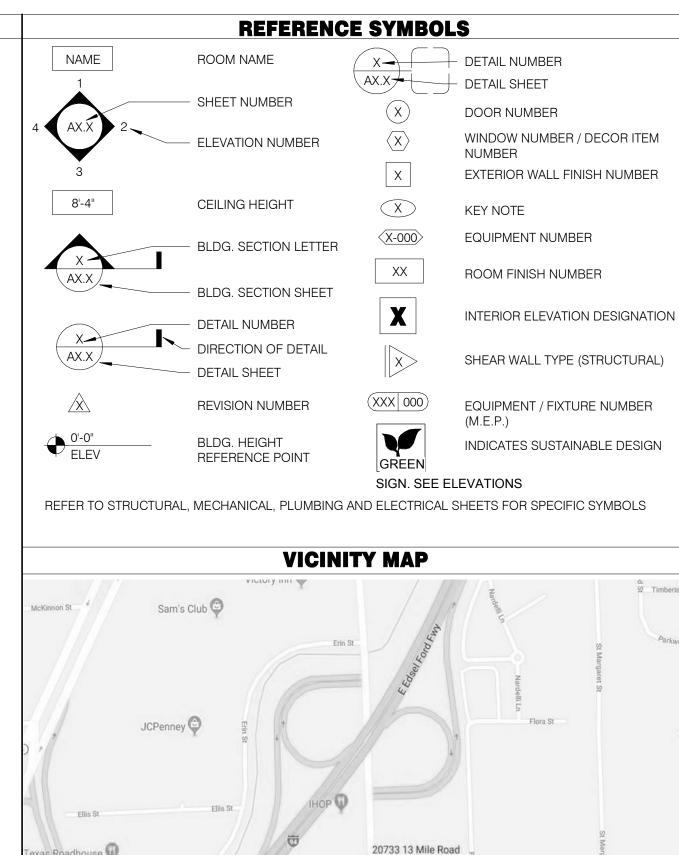
# **MODERN EXPLORER T40**



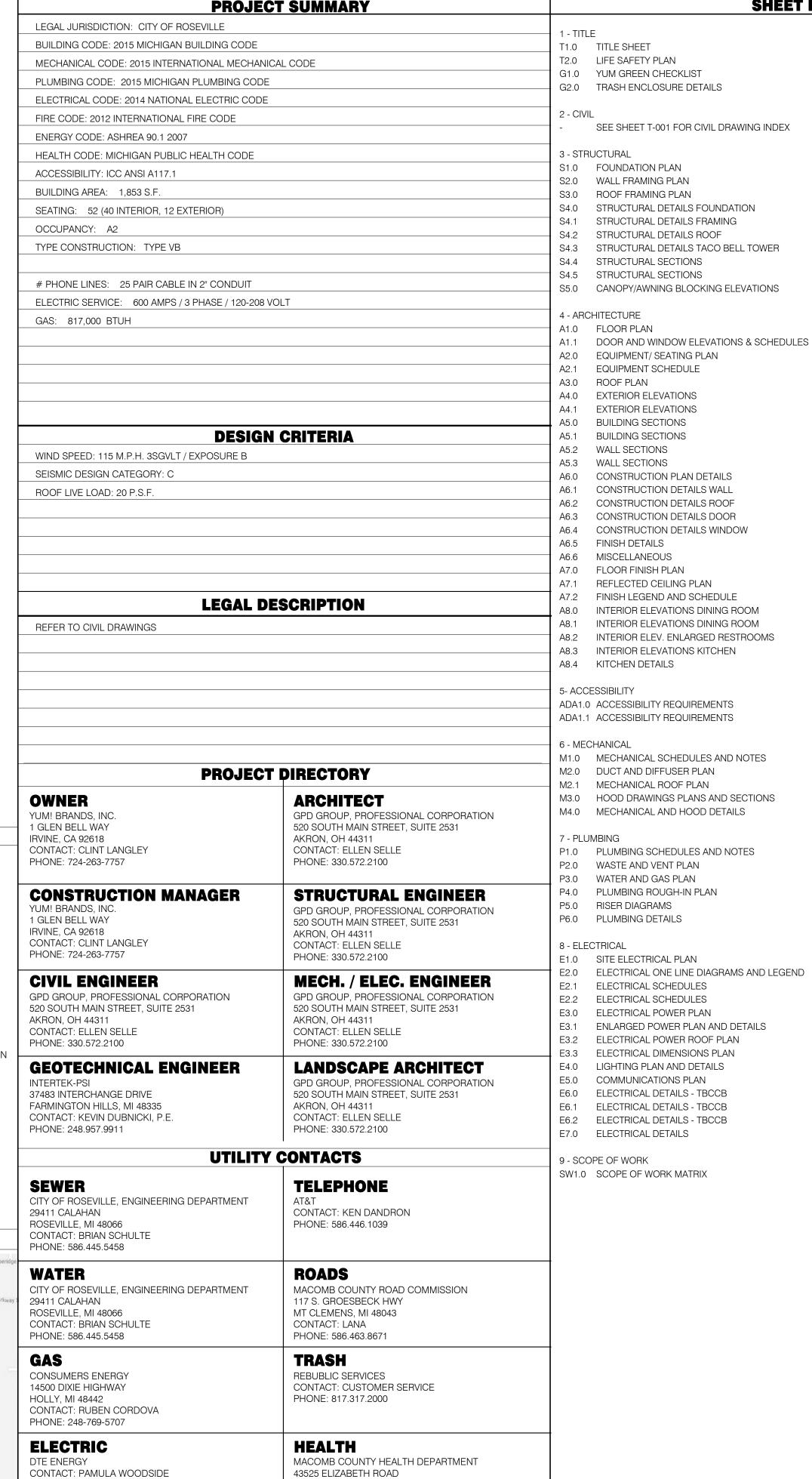
# 20779 E. 13 MILE RD. ROSEVILLE, MI 48066

### **PROJECT GENERAL NOTES**

- A. ALL WORK SHALL CONFORM TO THE 2015 EDITION OF THE MICHIGAN BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND REGULATIONS OF THE CITY OF ROSEVILLE, MI.
- B. IT IS INTENDED THAT A COMPLETE OCCUPIABLE BUILDING PROJECT IS PROVIDED.
- C. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (A.I.A. A201 LATEST EDITION) ARE A PART OF THESE CONTRACT DOCUMENTS. A COPY IS ON FILE AT THE ARCHITECT'S OFFICE.
- D. DRAWINGS ARE BASED ON A SURVEY, DATED 05.08.17 PREPARED BY ATWELL, LLC AND IS INCLUDED IN THESE DOCUMENTS.
- E. THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL INVESTIGATION DATED AUGUST 24, 2017 BY INTERTEK-PSI. THE REPORT IS PART OF THESE CONTRACT DOCUMENTS. AND THE CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT ITS RECOMMENDATIONS, THOUGH SOME MAY NOT BE SPECIFICALLY DETAILED ON THE PLANS.
- E. DO NOT SCALE THESE DRAWINGS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. ANY DISCREPANCIES IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO STARTING WORK.
- G. ALL PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE YUM BRANDS CONSTRUCTION MANAGER, IN WRITING, PRIOR TO INSTALLATION.
- H. RETAIN THE PROJECT GEOTECHNICAL ENGINEER TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING (INCLUDING UTILITY TRENCHES) AND FOUNDATION PHASE OF CONSTRUCTION AS RECOMMENDED IN THE GEOTECHNICAL REPORT. ALL TESTING AND INSPECTION REPORTS, INCLUDING FINAL SUMMATION LETTER, SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND OWNER. G.C. SHALL CERTIFY PAD ELEVATION PRIOR TO START OF FOUNDATION WORK.
- SUBMIT PAY FEES AND OBTAIN ALL PERMITS ASSOCIATED WITH THE PROJECT EXCEPT GENERAL BUILDING PERMIT. THIS INCLUDES, BUT IS NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING FIRE SPRINKLER, HOOD ANSUL, OR OTHER RELATED FIRE PERMITS, ENCROACHMENT PERMIT, ETC. YUM BRANDS WILL PAY FOR "CONNECTION FEES" ASSOCIATED WITH UTILITY PERMITS. PAY FOR TEMPORARY FACILITIES FEES AS REQUIRED TO COMPLETE THE WORK IN A TIMELY MANNER.
- PROVIDE EACH SUBCONTRACTOR WITH A COMPLETE AGENCY-PERMITTED DRAWING SET AT TIME OF CONSTRUCTION.
- K. ALL ABBREVIATIONS INCLUDED FOLLOW INDUSTRY STANDARDS. CONTACT ARCHITECT IF ANY ABBREVIATIONS ARE NOT CLEAR.
- .. GC SHALL SUPPLY AND INSTALL ALL ASPECTS OF THE PROJECT DESCRIBED IN THIS DRAWING SET UNLESS OTHERWISE NOTED. SEE SCOPE OF WORK FOR EXCEPTIONS.
- M. GRAPHIC AND WRITTEN INFORMATION ON DRAWINGS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.



Bar-B-Que

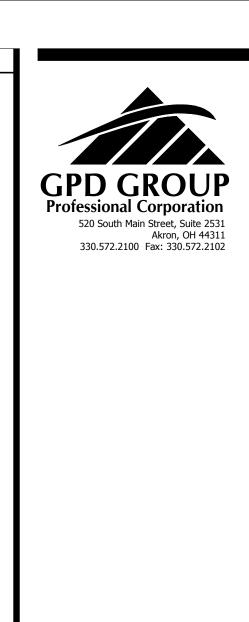


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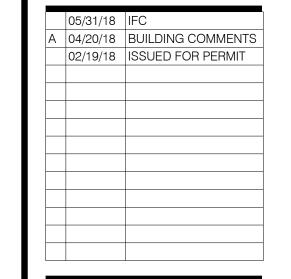
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**SHEET INDEX** 



01.08.18

T40M-O

DEC 2017

2016088.09

CONTRACT DATE: **BUILDING TYPE:** PLAN VERSION:

BRAND DESIGNER: 312262/442877

SITE NUMBER: STORE NUMBER:

**TACO BELL** 

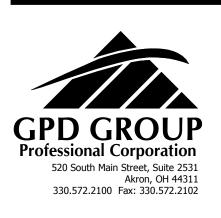
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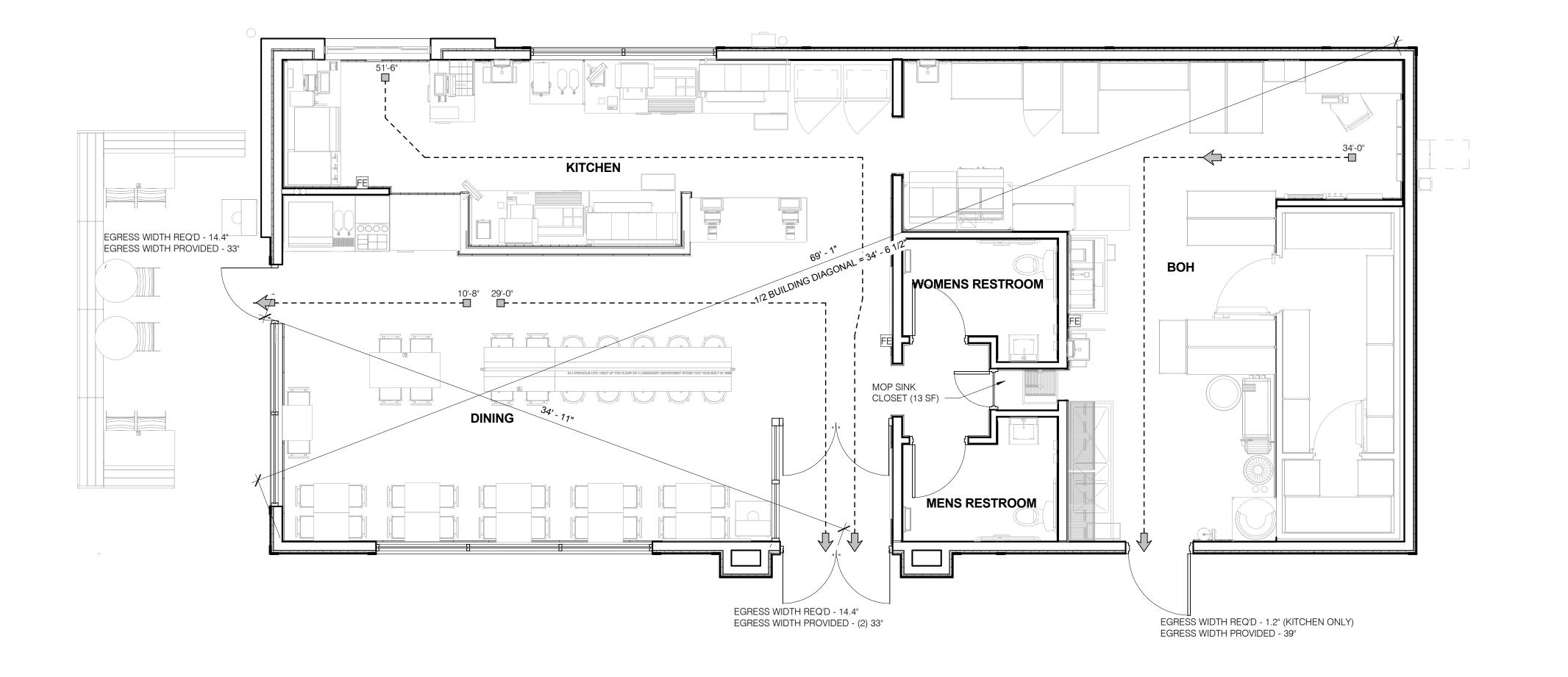


OPEN KITCHEN MODERN EXPLORER

### TITLE SHEET

PLOT DATE: 5/30/2018 3:17:46 PM







STORE NUMBER: LIFE SAFETY PLAN 1/4" = 1'-0" 1,736 GROSS SF (BUILDING) FIRE EXTINGUISHER LOCATION. SPACE LOAD FACTOR OCCUPANTS ASSEMBLY (UNCONCENTRATED) 1,186 SF 13 SF 200 GROSS 6 300 GROSS 1 KITCHEN (COMMERCIAL) STORAGE/MECHANICAL **EMERGENCY EXIT** TOTAL 2,162 SF 72 OCCUPANTS ---- TRAVEL DISTANCE **EXIT SIGNS OCCUPANT LOAD CALCULATIONS** LIFE SAFTEY LEGEND N.T.S. C

05/31/18	IFC
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

TACO BELL

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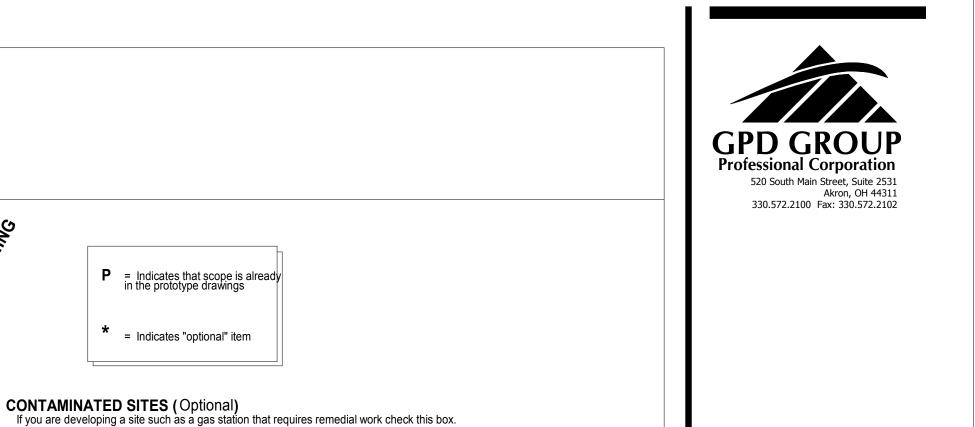
OPEN KITCHEN MODERN EXPLORER

**LIFE SAFETY PLAN** 

### CHECK LIST NUMBER EXPLANATION:

The checklist numbers below align with the credit numbers in the YUM Blueline system website. For further detail go to the following web address. Note: Follow the "Required" and "Optional" designation on this sheet rather than the ones on the YUMBlueline website. The system has been setup so that if you do the "Required" items on this list your restaurant will meet the YUMBlueline requirements.

Go to the reference version of the YUM Blueline websiteat: "www.yumblueline.com"
 In the "User" section choose "General" from the pull down menu
 In the "Password" section type in "J212j\*kla!"



	Jalo Jalo Jalo Jalo Jalo Jalo Jalo Jalo		ASBEL SIGN WST <sub>R</sub>	in the prototype drawings	A SIGN WEST	in the prototype drawings
TA TA	Constraints		FE SIBA CONST	* = Indicates "optional" item	FESSEL CONSTA	* = Indicates "optional" item
	<b>~ ~ ~</b>		<b>~ ~ ~ ~</b>			
						1.3 CONTAMINATED SITES (Optional)
		FORMALDEHYDE LIMITS Maximum formaldehyde emissions in parts per million	X   P	37.1 RECYLING (Required)	*	If you are developing a site such as a gas station that requires remedial work check this box.  1.4 LOCATION COMMITMENT (Required)
		PRODUCT CURRENT LIMIT		<ul> <li>A. Provide dedicated recycling space in the dining room, kitchen and site. Recycling should accommodate plastic, paper and oil.</li> <li>B. See the "Trash Enclosure Standards" posted on the Plans.YUM.com. Unless approved the "Large"</li> </ul>		Commit to stay in the same location for 10 years or more.  1.5 PAY UTILITIES DIRECTLY (Required)
		<ul> <li>HARDWOOD PLYWOOD VENEER CORE</li> <li>HARDWOOD COMPOSITE CORE</li> <li>PARTICLE BOARD</li> <li>0.05</li> <li>0.09</li> </ul>		version should be used.		If site is leased insure that Taco Bell will pay the utilities directly rather than allowing the landlord to pay them.  This will allow Taco Bell to track utility expenses easily.
		<ul> <li>MEDIUM DENSITY FIBER BOARD</li> <li>THIN MEDIUM DENSITY FIBERBOARD</li> <li>0.13</li> </ul>		37.2 COOKING OIL RECYCLING (Required)  Collect cooking oil and provide to a third party vendor for recycling.		2.2 PROXIMITY TO BUS STOP (Optional) Site is within $\frac{1}{4}$ a mile of a bus stop.
		<ol> <li>VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXIC CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333.</li> </ol>	*   X   X	37.3 CARDBOARD RECYCLING (Optional)  Collect used corrugated cardboard and provide to a third party vendor for recycling.	*   •   •   •   •   •   •   •   •   •	3.0 BICYCLE FACILITIES (Required)
		1 THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF $\frac{5}{15}$ "		38. AIR VENTILATION (Required)		Provide dedicated bicycle lockable parking for a minimum of two bicycles. Provide changing area and lockable storage for a minimum of two people. Single occupancy toilet rooms will suffice as a changing area.
				Provide air ventilation`and exhaust rates per YUM BLUELINE     Provide fresh air per YUM BLUELINE     39.1 NO SMOKING (Required)	*   X   X	5.1 PARKING (Optional)  Do not exceed parking spaces required by local zoning. See Credit 5  Provide 5% preferred parking for carpool.
		VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS (Cont.) Grams of VOC per liter of coating, less water & less exempt compounds		A. Maintain a policy of not smoking within the restaurant B. Prohibit smoking within 25 feet of the restaurant		
		SPECIALTY COATINGS     CURRENT VOC LIMIT     ROOF COATINGS     50		41.1 PROTECTION OF MATERIALS (Required)  GC to provide a IAQ management plan with bid. Start with the prototype template and modify as required for site specific conditions.	P   _	7.2 WHITE ROOF (Required) Provide white PVC single membrane roof material.
		RUST PREVENTATIVE COATINGS     SHELLACS     SHELLACS     250		A. Protect HVAC system B. Implement pollution source control measures		9.0 CONSTRUCTION POLLUTION CONTROL (Required)  A. Construction pollution control plan.
		CLEAR 730 OPAQUE 550 • SPECIALTY PRIMERS, SEALERS & UNDER-COATINGS 100		C. Protect stored materials     D. Protect installed materials     E. Maintain construction site housekeeping		B. Silt fencing C. Site vehicular access D. Wheel washing
		<ul> <li>STAINS</li> <li>STONE CONSOLIDANTS</li> <li>250</li> <li>450</li> </ul>				E. Covered loads     F. Excavated soil storage
		<ul> <li>TRAFFIC MARKING COATINGS</li> <li>TUB &amp; TILE REFINISH COATINGS</li> <li>WATERPROOFING MEBRANES</li> <li>250</li> </ul>		42. LOW EMITTING MATERIALS (Required) Finish materials shall comply with this section:		G. Storm water drain, trench and pit drain protection H. Temporary diversion ditches and berms I. Dust control
		<ul> <li>WOOD COATINGS</li> <li>WOOD PRESERVATIVES</li> <li>ZINC-RICH PRIMERS</li> <li>350</li> <li>340</li> </ul>		Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or		J. Exposed slope erosion control K. Weekly contractor inspection
		1. Grams of VOC per liter of liter of coating, including water & exempt compounds		regional air pollution or air quality management district rules apply: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers	P   _	10.2 Building Water (Required) Provide plumbing fixtures as specified in the prototype drawings, specifications and equipment model.
		<ol> <li>The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.</li> <li>Values in this table are derived from those specified by the California arei resource board.</li> </ol>		and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits.	P	11.2 Process Water (Required)  All water using equipment specified in the prototype equipment schedule shall be used for all ground-up restaurants.
		architectural coatings suggested control measure, feb 1, 2008. more information is available from the air resources board.		<ol> <li>Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with SCAQMD.</li> </ol>		12.1 Landscape Design (Required)
		COATING CATEGORY CURRENT VOC LIMIT		Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in SCAQMD.		All landscape designs for new ground-up restaurants shall follow the Landscape Standards posted on the Plans.YUM.com website.  13.1 Irrigation Water (Required) See landscape specifications
		<ul> <li>FLAT COATINGS</li> <li>NON-FLAT COATINGS</li> <li>NON-FLAT HIGH GLOSS COATINGS</li> <li>150</li> </ul>		Aerosol Paints and Coatings. Aerosol paints and coatings shall meet SCAQMD requirements.		A. Programmable irrigation controller. B. Separate irrigation zones C. Program maximum irrigation timing
		SPECIALTY COATINGS CURRENT VOC LIMIT		<b>Verification.</b> The General Contractor shall provided documentation to the CM. Documentation shall include, but is not limited to, the following:  1. Manufacturer's product specification.		D. High-efficiancy irrigation sprinkler heads E. Rain sensor
		<ul> <li>ALUMINUM ROOF COATINGS</li> <li>BASEMENT SPECIALTY COATINGS</li> <li>400</li> </ul>		2. Field verification of on—site product containers.		15.3 Interior Lighting (Required)  The current lighting specifications shall be used for all ground-up prototype restaurants.
		<ul> <li>BITUMINOUS ROOF COATINGS</li> <li>BITUMINOUS ROOF COATINGS PRIMER</li> <li>BOND BREAKER</li> <li>350</li> <li>350</li> </ul>		ADHESIVE VOC LIMITS	P   _	16.2 Exterior Lighting (Required)  The current lighting specifications shall be used for all ground-up prototype restaurants.
		CONCRETE CURING COMPOUNDS 350     CONCRETE / MASONRY SEALERS 100     DRIVEWAY SEALERS 50		ARCHITECTURAL ADHEASIVE APPLICATIONS CURRENT VOC LIMIT		17.2 Sign Illumination (Required)
		<ul> <li>DRY FOG COATINGS</li> <li>FIRE RESISTIVE COATINGS</li> <li>350</li> </ul>		<ul> <li>CERAMIC TILE</li> <li>DRYWALL, PANEL &amp; COVE BASE</li> <li>MULTI-PURPOSE</li> <li>70</li> </ul>		The current signage specifications shall be used for all ground-up prototype restaurants.  18.1 Exhaust Hoods (Required)
		<ul> <li>FLOOR COATINGS</li> <li>FORM-RELEASE COMPOUNDS</li> <li>HIGH TEMPERATURE COATINGS</li> <li>420</li> </ul>		SINGLE PLY ROOFING     250  SPECIALTY APPLICATIONS     CURRENT VOC LIMIT	P	The current 6'-4" back shelf hood design and equipment placement as shown in the ground-up prototype restaurant shall be used.  19.1 LICENSED HVAC ENGINEER (Required)
		<ul> <li>INDUSTRIAL MAINTENANCE COATINGS</li> <li>LOW SOLIDS COATINGS</li> <li>120</li> </ul>		PVC WELDING     510		Use a licensed HVAC engineer for system site adaptation.
		<ul> <li>MAGNESITE CONCRETE COATINGS</li> <li>MASTIC TEXTURE COATINGS</li> <li>PRETREATMENT WASH PRIMER</li> <li>350</li> </ul>		<ul> <li>CPVC WELDING</li> <li>ABS WELDING</li> <li>PLASTIC CEMENT WELDING</li> <li>250</li> </ul>		19.2 OPTIMIZE HVAC DESIGN (Required) Optimize HVAC design system per YUM Blueline Standards
		<ul> <li>PRIMERS, SEALERS AND UNDERCOATS</li> <li>REACTIVE PENETRATING SEALERS</li> <li>RECYCLED COATINGS</li> <li>250</li> </ul>		<ul> <li>ADHESIVE PRIMER FOR WELDING</li> <li>CONTACT ADHESIVE</li> <li>SPECIAL PURPOSE CONTACT ADHESIVE</li> <li>250</li> </ul>		20.0 HVAC EFFICIENCY (Required)  Use the EFLEX RTU for the kitchen and the Partial VAV RTU for the dining room and install per the
				SPECIAL PURPOSE CONTACT ADHESIVE 250     STRUCTURAL WOOD MEMBER ADHESIVE 140     TOP & TRIM ADHESIVE 250		current prototype ground-up restaurant.  21.0 ECONOMIZER PERFORMANCE (Required)
	<b>)</b> 43.	B.1 CONTROLLED BUILDING MATERIAL ( Required)  A. If fluorescent lamps are used they shall not exceed 80 picograms per lumen hour.  B. Maintain the Taco Bell lamps policy of only using LED lamps in all building, site and sign lighting.		SUBSTRATE SPECIFIC APPLICATIONS CURRENT VOC LIMIT		Use an economizer provided with the EFLEX and Partial VAV RTUs by Trane.
		5.1 THERMAL COMFORT (Required) Insure that the HVAC system provides the following comfort conditions, on average:		METAL TO METAL 30     PLASTIC FOAMS 50     POROUS MATERIALS (EXCEPT WOOD) 50		22.1. Hot Water Efficiency (Required) Use the water heater specified in the Taco Bell prototype.
		Store Occupation Mode Temp Setpoints Max Relative Humidity		POROUS MATERIALS (EXCEPT WOOD)     WOOD     FIBERGLASS     80		23.1 REFRIGERANTS (Required)  Do not used banned refrigerants. If you use any modern RTU you will not use banned refrigerants
		Occupied Dining Cooling 73-78 F 60% Kitchen Cooling 68-73 F		SEALANT VOC LIMITS (less water and less exempt compounds in grams per liter)		24.1 REFRIGERATION (Required)  A. Use the current specified walk-in cooler/freezer. See Credit 24  B. Use the current specified reach-in freezer. See Credit 24
		Dining Heating 68-73 F 60% Kitchen Heating 66-71 F		(less water and less exempt compounds in grams per liter)  SEALANT  CURRENT LIMIT		B. Use the current specified reach-in freezer. See Credit 24 C. Use the current specified ice makers. See Credit 24
				ARCHITECTURAL 250     MARINE DECK 760		25.1 COOKING & WASHING EQUIPMENT (Required)  A. Use the current specified fryer in the prototype.  B. Use the current specified 3-comp sinkin the prototype.
		Unoccupied Cooling (minimum) 80 F or off  Heating (maximum) 60 F		<ul> <li>NON-MEMBRANE ROOF</li> <li>ROADWAY</li> <li>250</li> </ul>	P   L	28.1 BASIC LIGHTING & THERMAL CONTROLS (Required)
	AE	6.1 THERMAL VERIFICATION (Required)		<ul> <li>SINGLE PLY ROOF MEMBRANE</li> <li>OTHER</li> <li>450</li> <li>420</li> </ul>		<ul> <li>A. Provide programable thermostatsspecified in the prototype</li> <li>B. Provide temperature sensor locations and specifications on plan</li> <li>C. Insure proper operation of ventilation equiment operations</li> <li>D. Provide lighting controls for interior zones</li> </ul>
		A. At the 11 month warrantee, the CM shall administer the "Thermal Comfort Verification Survey" with a response rate of 75% minimum.  B. If 20% or more of the responders are dissatisfied then corrective actions shall take corrective action until less the state of the responders are dissatisfied then corrective actions shall take corrective action until less the		SEALANT PRIMER CURRENT LIMIT  • ARCHITECTURAL		E. Provide lighting controls for exterior zones.
		20% are dissatisfied.  C. If corrective action is required go back and insure that the store meets #28 Thermal Comfort standards.	211	NON-POROUS 250 PORUS 775		28.3 Occupancy Sensors (Optional) Provide ultrasonic/infared) occupancy sensors for 25% or move of interior lighting.
	<b>)</b> 48.	B.1 LEED TEAM MEMBER (Required)  Each consultant shall have a LEED AP member on each projects site specific team.		<ul> <li>MODIFIED BITUMINOUS</li> <li>MARINE DECK</li> <li>OTHER</li> <li>500</li> <li>760</li> <li>750</li> </ul>	*   P   L	<b>33.1 Recycled Content (</b> Required <b>)</b> Use materials that have a minimum of 10% recycled materials. (Note: Getting the calculations in process)
		0.1 COMMISSIONING (Required)				36.1 Construction Waste Management (Required)  A. The contractor shall recycle a minimum of 50% of all construction waste and provide records per YUM Blueline.
		Commissioning requires understanding the owners design intent prior to starting site specific design so they can insure that the with the owner's requirements. Commissioning also is also intended to insure that the contractor executes the design per the requirements.	r design meets wner's .			75% is preferred.  B. The general contractor shall provide a construction waste management plan to the construction manager with
		<ul> <li>A. The consultant should modify the Owner's Prototype Requirements with the site specific information and insure th site specific design meets or exceeds the Owner's Requirements prior to starting design.</li> <li>B. The consultant, general contractor and CM should use Sheet G1 as the checklist to insure the site specific project results meets or exceeds the Owner's Requirements.</li> </ul>	t the			their bid submittal. They can use the starter form posted on the Plans.YUM.com website in the Green Playbook section.

05/31/18	IFC
02/19/18	ISSUED FOR PERMIT
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CONTRACT D	)ATE: 01.08.1

BUILDING TYPE: PLAN VERSION: DEC 2017 BRAND DESIGNER:

T40M-O

SITE NUMBER: 312262/442877 STORE NUMBER: 2016088.09

TACO BELL

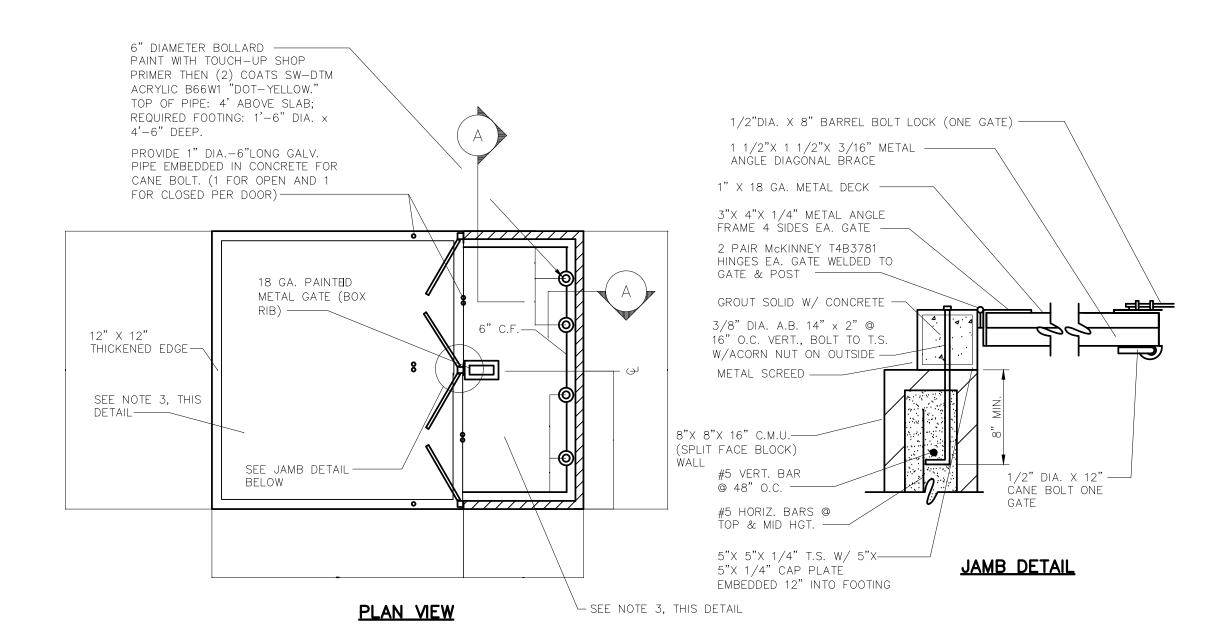
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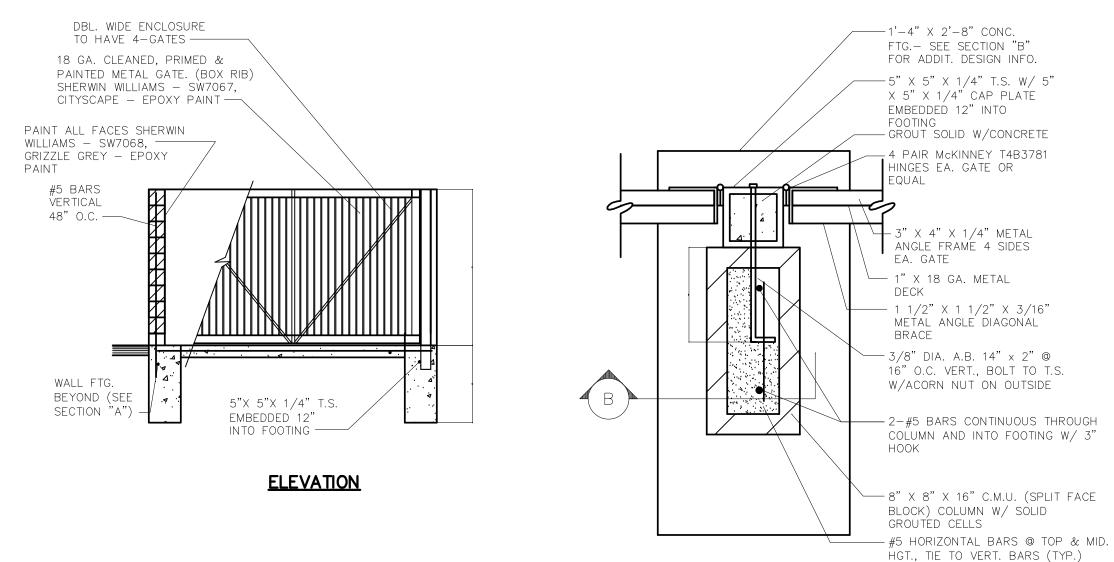


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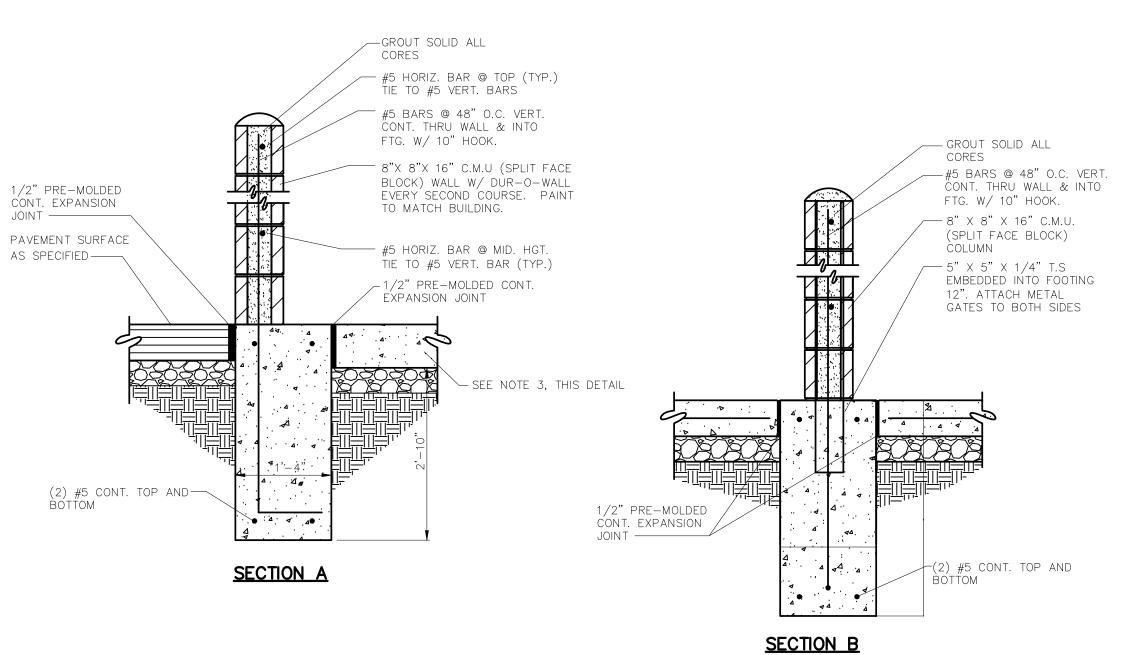
**YUM GREEN CHECKLIST** 

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### JAMB DET. DOUBLE ENCLOSURE



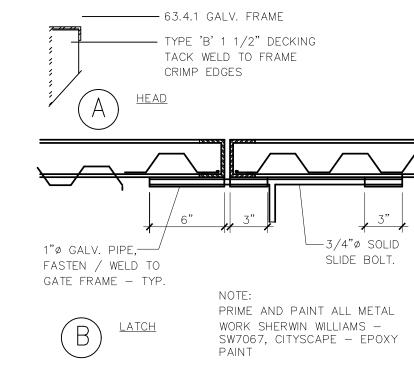
### GATE NOTES:

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

### GATE HARDWARE:

ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVINIZED.

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



NOTES:

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

TRASH ENCLOSURE DETAIL MATERIAL SPECIFICATIONS: 1. CONCRETE BLOCK: 6" MINIMUM IN SIZE. ASTM C90. 2. REINFORCING STEEL: ASTM 615. GRADE 60. 3. ACCEPTABLE SOIL TYPES: A. MIN. ALLOWABLE BEARING: 2000 LBS'/SQ. FT B. MIN. LATERAL BEARING: 100 LBS'/SQ. FT./FT.

C. MAX EXPANSION INDEX: 20 4.CONCRETE: 4000 LBS'/SQ. IN. IN 28 DAYS. 8" THICK CONCRETE SLAB OVER 6" THICK CRUSHED AGGREGATE. 12"X12" THICKENED EDGE FOR APPROACH SLAB. #4 REBAR @ 2'-0" O.C. EACH WAY. 5. MORTAR: 1: 1/4:3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND.

BY VOLUME). MIXED TO PLASTIC CONSISTENCY. REFER TO UBC TABLE 24-A FOR OTHER TYPES OF CEMENT. 6. GROUT: 1:1/10:3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND BY VOLUME).MIX TO FLOW WITHOUT SEGREGATION. GROUT MAY CONTAIN 2 PARTS PEA GRAVEL (3/8" MAX. SIZE). MINIMUM COMPRESSIVE STRENGTH: 2000 LBS/SQ. IN. REFER TO UBC TABLE 24-B

FOR OTHER TYPES OF CEMENT.

. THIS DESIGN IS FOR AVERAGE CONDITIONS AND MAY NOT BE SUITABLE FOR ALL CASES. IT IS RECOMMENDED THAT A LICENSED CIVIL OR STRUCTURAL ENGINEER BE 2. FOOTINGS SHALL BE IN NATURAL SOIL OR CERTIFIED FILL. FOOTING SHALL

EXTEND EXTEND 3'-6" MINIMUM BELOW FINISH GRADE. 3. BLOCKS TO BE STAGGERED (RUNNING BOND). 4. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE GROUTED.

5. APPROVED GROUT STOPS ARE REQUIRED BELOW HORIZONTAL STEEL IN PARTIALLY GROUTED WALLS. BAGS. NEWSPAPERS, ETC. ARE NOT APPROVED GROUT 6. INITIAL BED JOINT SHALL BE 1/4"MIN. 1 "MAX. SUBSEQUENT BED JOINTS SHALL

BE ¼"- MIN., 5/8" MAX. 7. VERTICAL CONTINUITY OF CELLS SHALL BE UNOBSTRUCTED. MORTAR PROJECTIONS SHALL NOT EXCEED ½" FOR 6" AND LARGER BLOCK. MORTAR DROPPINGS OR OTHER FOREIGN MATTER ARE NOT PERMITTED IN CELLS AND MUST BE REMOVED

8. EXPANSION JOINTS REQUIRED AT 60'-0. MAX. INTERVALS.

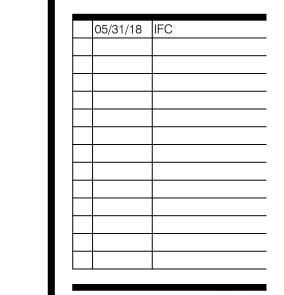
9. REQUIRED BAR LAPS: A. VERTICAL STEEL: 30 BAR DIAMETERS.

B. HORIZONTAL STEEL: 40 BAR DIAMETERS. C. WIRE JOINT REINFORCEMENT IN THE MORTARED BED JOINT: 75 WIRE DIAMETERS OR IN ALTERNATE BED JOINTS OF RUNNING BOND. 54 DIAMETERS PLUS TWICE THE BED JOINT SPACING. 10. WHERE HORIZONTAL WIRE JOINT REINFORCEMENT IS REQUIRED OR UTILIZED. IT SHALL BE EQUIVALENT TO TWO 3/16' DIAMETER BARS CONNECTED AT 16"

INTERVALS BY NO. 9 GAUGE WELDED WIRE. 11. FOR PIPES AND CONDUIT EMBEDDED IN MASONRY, REFER TO SEC. 24-07(g). 12. 3" MIN. COVER REQUIRED FOR REINFORCEMENT IN CONCRETE WHICH IS CAST

AGAINST EARTH. INSPECTION PROCEDURES:
1. FOUNDATION: AFTER TRENCHES ARE DUG, STEEL IS TIED IN PLACE AND BEFORE

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



**Professional Corporation** 

520 South Main Street, Suite 2531

330.572.2100 Fax: 330.572.2102

Akron, OH 44311

CONTRACT DATE: 01.08. T40M **BUILDING TYPE:** PLAN VERSION: DEC 20 BRAND DESIGNER:

SITE NUMBER: 312262/4428 STORE NUMBER: 2016088.

### TACO BELL

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



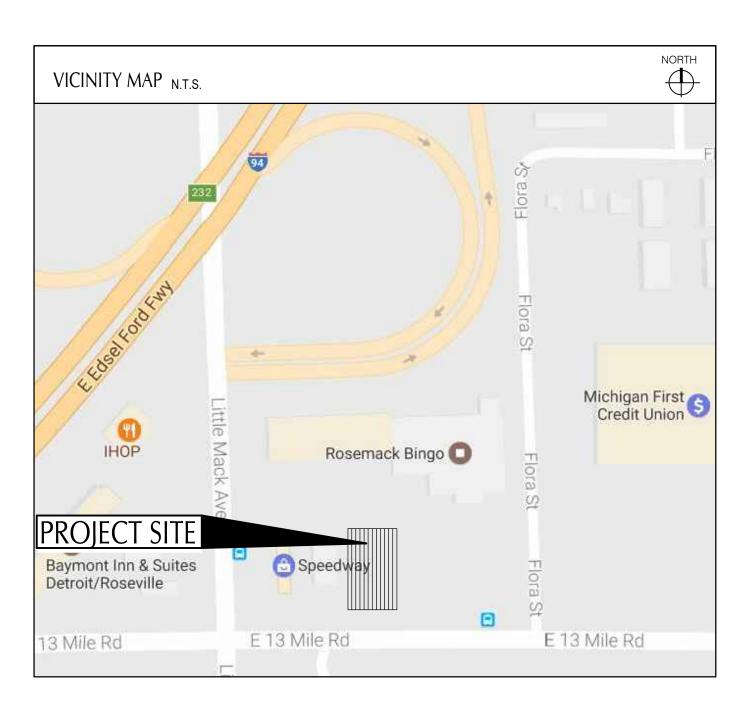
OPEN KITCHEN MODERN EXPLORER

**TRASH ENCLOSURE DETAILS** 

## IMPROVEMENT PLANS

# TACO BELL

20779 EAST 13 MILE ROAD ROSEVILLE, MICHIGAN



### 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.

### INDEX OF DRAWINGS TITLE SHEET T-001 ALTA SURVEY 10F 3 - 3 OF 3 GENERAL NOTES C-001 CITY OF ROSEVILLE NOTES . C-002 - C-003 EXISTING CONDITION AND DEMOLITION PLAN C-101 SITE PLAN C-111 ENLARGED SITE, PLAN C-112 GRADING PLAN C-121 SWPPP NOTES C-131 SWPPP PLAN C-132 SWPP NOTES AND DETAILS C-133 SWPP DETAILS C-134 UTILITY PLAN C-141 DETAILS. C-501 DETAILS. C-502 DETAILS. C-503 CITY STORM SEWER DETAILS C-504 LANDSCAPING NOTES L-001 LANDSCAPE PLAN L-101 LANDSCAPING DETAILS L-501 TRASH ENCLOSURE DETAILS G2.0

## APPROVALS

CITY OF ROSEVILLE ENGINEERING DEPARTMENT

DATE : \_\_\_\_\_



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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:

ATE:

# ALTA/NSPS LAND TITLE SURVEY

<u>SCHEDULE B - SECTION II EXCEPTIONS (PER ALTA COMMITMENT FOR TITLE INSURANCE, ISSUED BY</u> 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.

RESPONSE: APPROXIMATELY AS SHOWN.

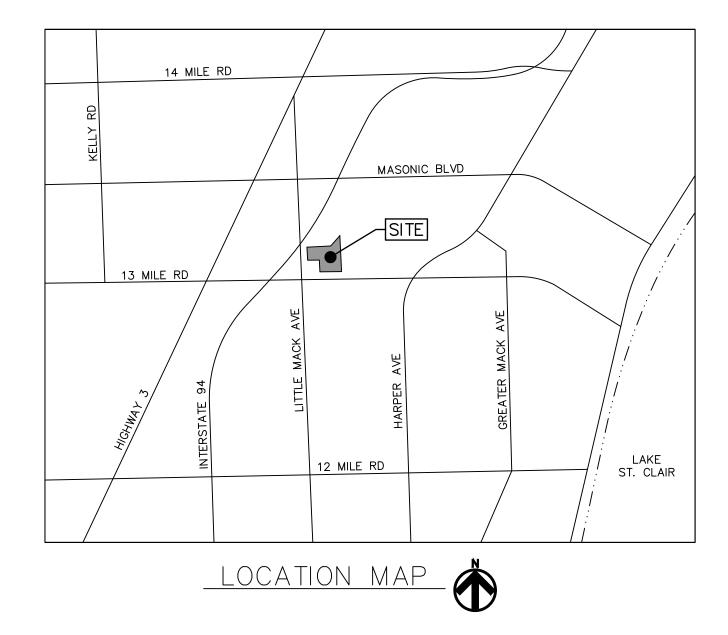
RESPONSE: AS SHOWN.

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

(9) 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.

(10) 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.

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



### 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

05/30/2018

DATE

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



PARCEL B:

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)

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:

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

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 NO2°55'17"W (RECORDED AS NO1°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 NO2°55'17"W (RECORDED AS NO1'55'27"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: <u>312262</u>

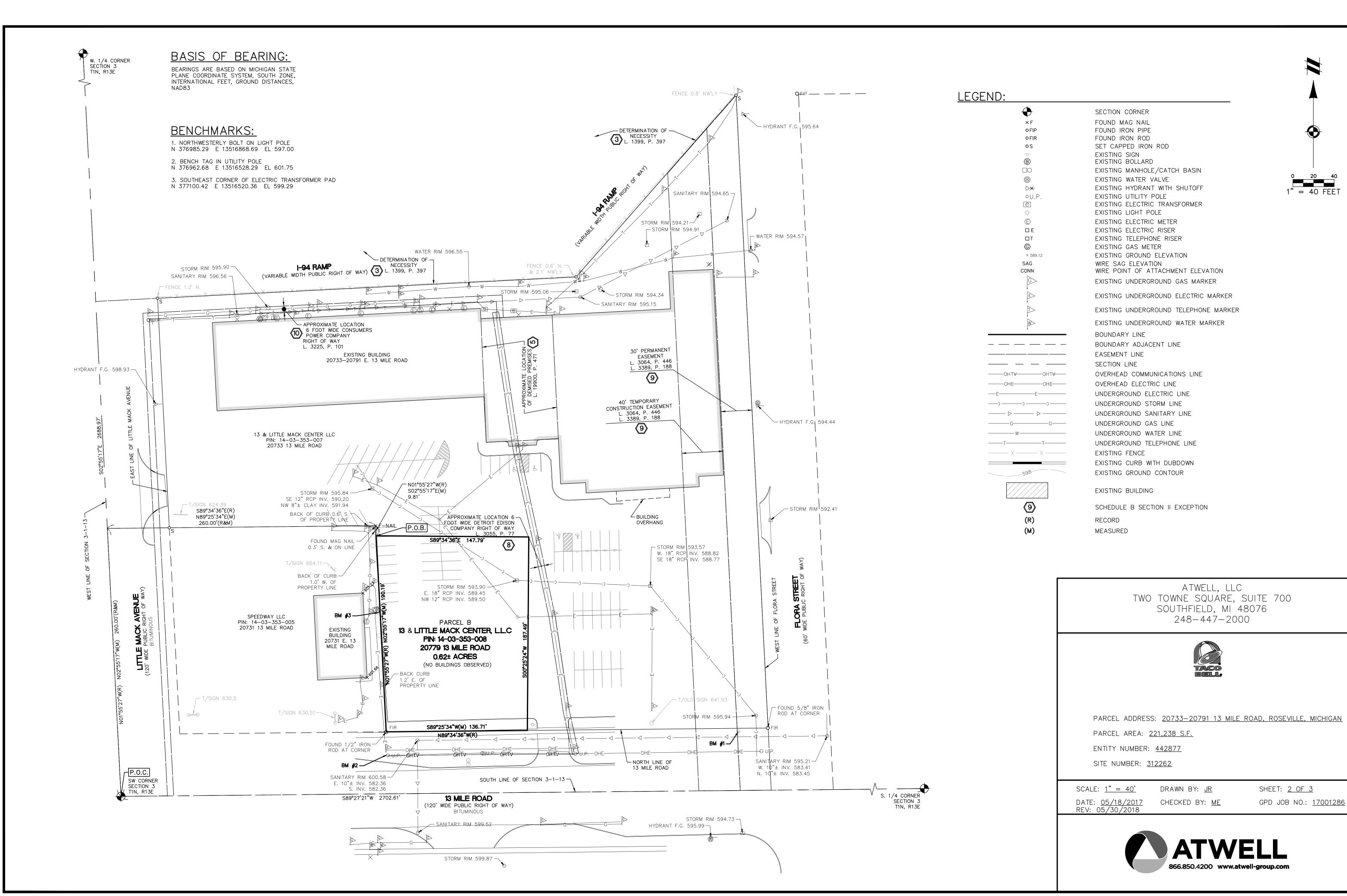
SCALE: NONE DRAWN BY: <u>JR</u> DATE: <u>05/18/2017</u> REV: 05/30/2018

CHECKED BY: ME

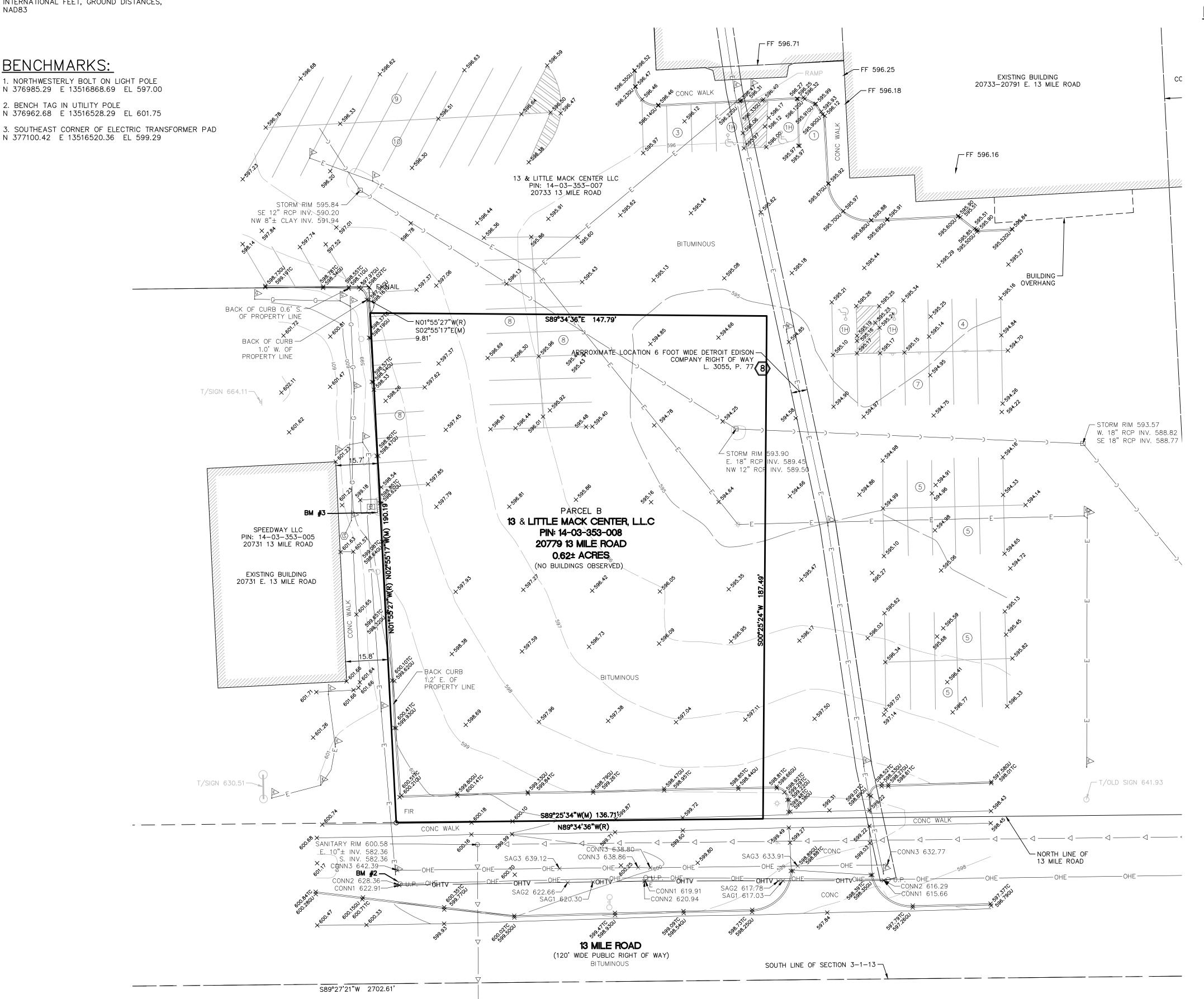
GPD JOB NO.: <u>17001286</u>

SHEET: <u>1 OF 3</u>





# **BASIS OF BEARING:** BEARINGS ARE BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FEET, GROUND DISTANCES, **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





SECTION CORNER FOUND MAG NAIL FOUND IRON PIPE FOUND IRON ROD 0 FIR SET CAPPED IRON ROD EXISTING SIGN EXISTING BOLLARD EXISTING MANHOLE/CATCH BASIN EXISTING WATER VALVE EXISTING HYDRANT WITH SHUTOFF  $\succ$ OU.P. EXISTING UTILITY POLE EXISTING ELECTRIC TRANSFORMER EXISTING LIGHT POLE EXISTING ELECTRIC METER ΠЕ EXISTING ELECTRIC RISER  $\Box$ T EXISTING TELEPHONE RISER EXISTING GAS METER EXISTING GROUND ELEVATION × 589.12 SAG WIRE SAG ELEVATION WIRE POINT OF ATTACHMENT ELEVATION CONN 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 ----OHT\(\frac{1}{2}\) 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

MEASURED

(M)

SCHEDULE B SECTION II EXCEPTION

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

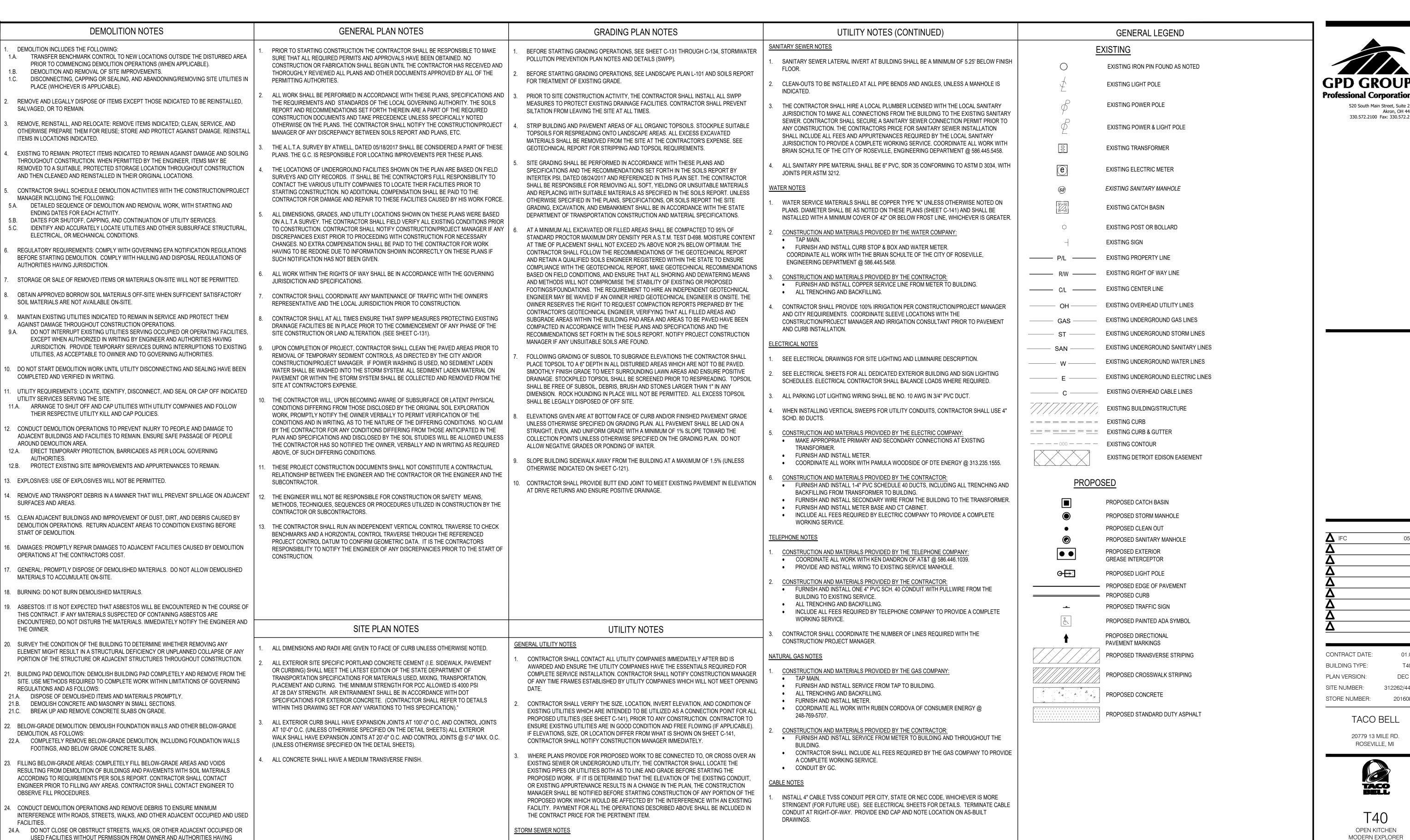
SITE NUMBER: 312262

SCALE: 1" = 20'DRAWN BY: <u>JR</u> DATE: <u>05/18/2017</u> REV: 05/30/2018 CHECKED BY: ME

SHEET: <u>3 OF 3</u> GPD JOB NO.: <u>17001286</u>

1" = 20 FEET





ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE CORRUGATED HIGH

PER ASTM D 3212 (OR APPROVED EQUAL).

SHEET C-502.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE

ALL DRAINAGE STRUCTURES AT PAVEMENT SUMPS SHALL HAVE FINGER DRAINS PER DETAIL

INSTALLATION, PIPE MATERIAL AND TAP CONNECTION. COORDINATE ALL WORK WITH ROBERT DEBRUYN OF THE CITY OF ROSEVILLE ENGINEERING DEPARTMENT @ 586.445.5445.

JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED

CONTRACTOR TO SAWCUT EXISTING PAVEMENT TO REMAIN PRIOR TO CURB, GUTTER,

TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS.

PAVEMENT, ETC REMOVAL

TACO BELL

20779 13 MILE RD.

ROSEVILLE, MI

Akron, OH 44311

330.572.2100 Fax: 330.572.2102

OPEN KITCHEN MODERN EXPLORER

**GENERAL** 

PLAN REPRODUCTION WARNING

THE PLANS HAVE BEEN CREATED ON ANSI D

(22"x34") SHEETS, REFER TO GRAPHIC SCALE.

05.31.18

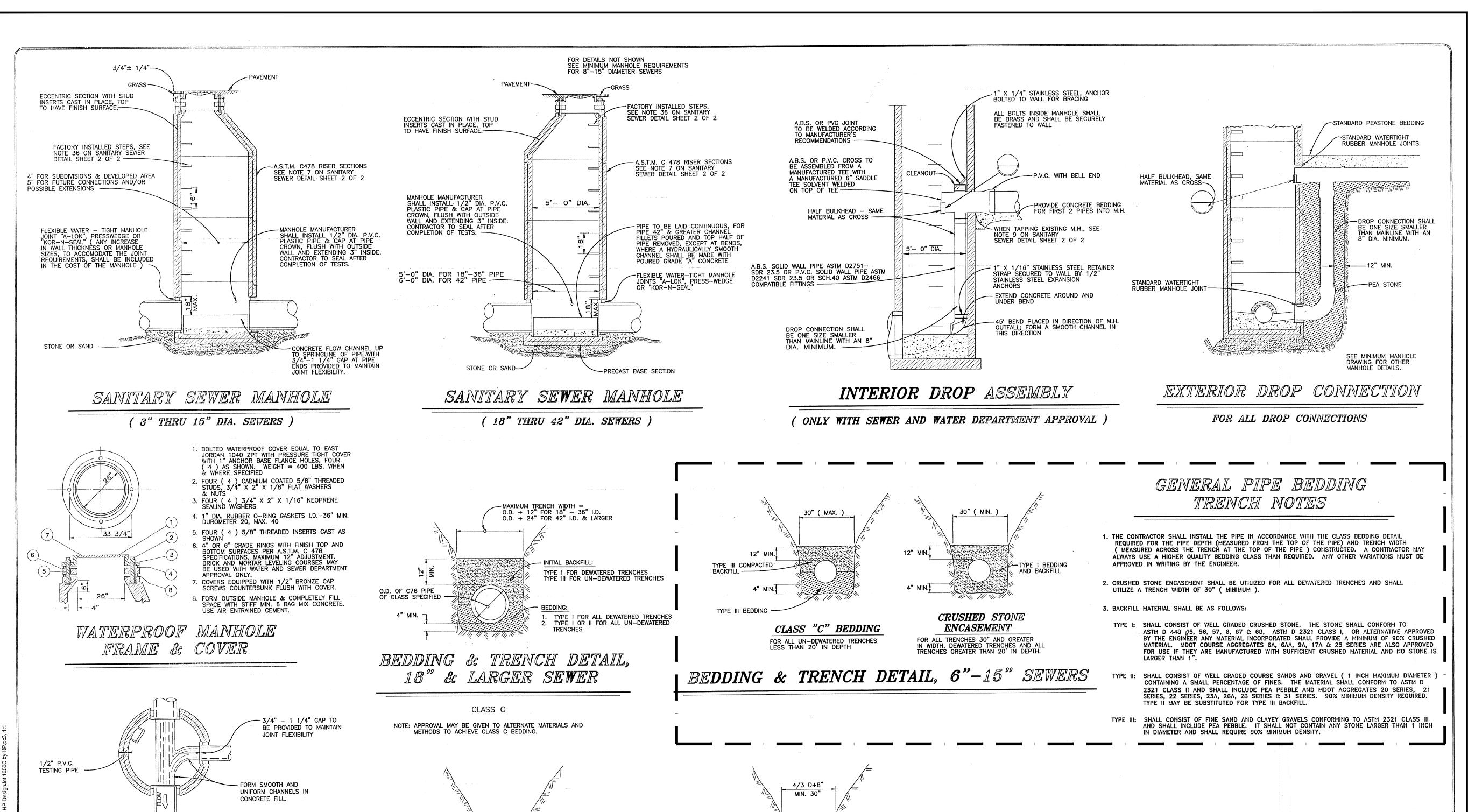
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T40M-O

DEC 2017

312262/442877

2016088.09



- 2500 P.S.I CONCRETE

CONCRETE ENCASEMENT DETAIL

1. PLACE 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH FOR

2. CONCRETE ENCASEMENT SHALL BE USED UNDER ALL RIVERS OR COUNTY DRAINS WHERE THE WIDTH FROM TOP OF BANK TO TOP OF BANK IS IN EXCESS OF 10 FEET & CROWN OF SEWER IS NOT COVERED BY 5 FEET.

3. CONCRETE ENCASEMENT SHALL EXTEND A DISTANCE OF 10 FEET BEYOND THE TOP OF BANK ON EACH SIDE OF THE STREAM. ( MINIMUM ENCASEMENT 30 FEET ).

4. FOR SANITARY SEWER IN EXCESS OF 15 INCHES IN DIAMETER CLASS V REINFORCED PIPE MAY BE SUBSTITUTED FOR CONCRETE ENCASEMENT, WITH OWNER'S APPROVAL.

ENTIRE WIDTH OF TRENCH.

-2500 P.S.I. CONCRETE TO SPRINGLINE

CONCRETE CRADLE DETAIL

1. CONCRETE CRADLE MAY BE SPECIFIED AT OWNER'S DISCRETION WHERE THE TRENCH WIDTH IS EXCESSIVE, OR WHERE THE TRENCH IS NOT SUITABLE FOR PIPE LAYING.

**BEAISIONS** 

**BENIZIONZ** 

**BEAISIONS** 

SEE STANDARD MANHOLE DRAWING

- FLEXIBLE MANHOLE JOINTS

CONCRETE FILL IN SUMP AFTER COMPLETION OF ACCEPTANCE TESTS.

FOR OTHER MANHOLE DETAILS

FLEXIBLE MANHOLE JOINTS

SUMP MANHOLE

TESTING, CLEANING & DEWATERING

SLOPE 1:12

1/2" P.V.C.

\( \begin{align\*} \be

05.31.18

**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

ROSEVILLE

JANUARY 8, 2004

MARCH 2003

GML/KJP

CHECKED BY

SCOTT

ENGINEER

SCOTT LOCKWOOD PE NO. 44355

STANDARD SANITARY SEWER DETAILS ( 1 OF 2

SEWER AND WATER DEPARTMENT

BRIAN D. McGRAIL, DIRECTOR

ANDERSON, ECKSTEIN AND WESTRICK, INC Civil Engineers • Surveyors • Architects

51301 Schoenherr Road, Shelby Township, Michigan 48315

Phone 586•726•1234 Fax 586•726•8780



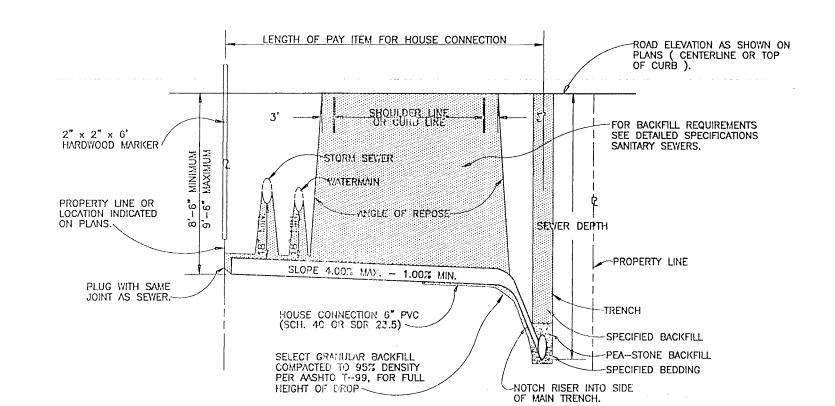
T40
OPEN KITCHEN
MODERN EXPLORER

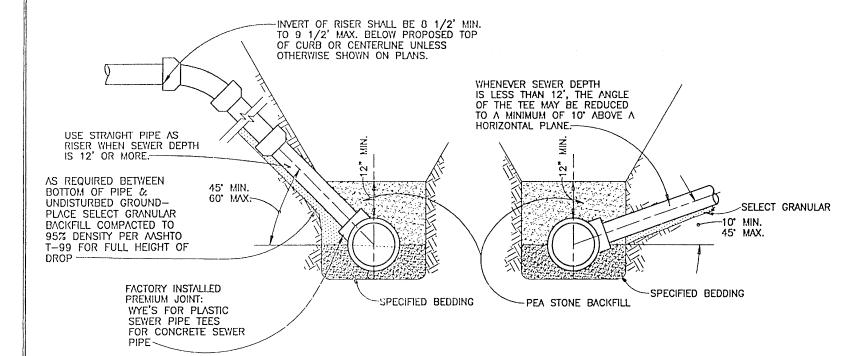
CITY OF ROSEVILLE

NOTES

C-002

### SANITARY SEWER CONSTRUCTION NOTES



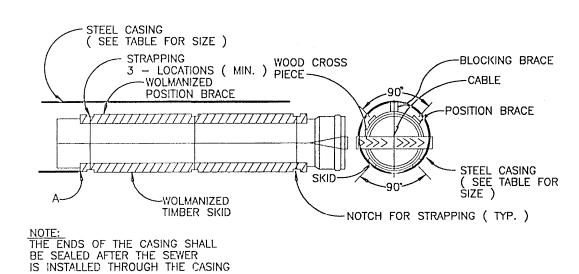


SANITARY SEWER HOUSE/ BUILDING CONNECTION

**BEAISIONS** 

**BEAISIONS** 

**BENIZIONZ** 



PIPE SIZE	RECOMMENDED MINIMUM CASTING DIAMETER	MINIMUM WALL THICKNESS
6 <b>"</b>	12"	.375
8"	16"	.375
10"	18"	.375
12"	20"	.375
15"	24"	.406
18" & 21"	36"	.532
24"	42"	.563
27" & 30"	48"	.625
36"	54"	.688
42"	60"	.750
48"	66"	.813
27" & 30" 36" 42"	48" 54" 60"	.625 .688 .750

STEEL CASING REQUIREMENTS

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROSEVILLE SEWER AND WATER DEPARTMENT. ALL SANITARY SEWER CONSTRUCTION SHALL HAVE COMPETENT FULL TIME INSPECTION PROVIDED BY OR CAUSED TO BE PROVIDED BY THE CITY OF ROSEVILLE.
- 2. AT ALL CONNECTIONS TO CITY OF ROSEVILLE SANITARY SEWERS OR TO EXTENSIONS THERETO, AND BEFORE START OF CONSTRUCTION, THE CONTRACTOR MUST REQUEST AND HAVE IN HIS POSSESSION AN APPROVED CONNECTIONS PERMIT ISSUED BY THE CITY OF ROSEVILLE SEWER & WATER DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE CITY OF ROSEVILLE SEWER AND WATER DEPARTMENT 48 HOURS PRIOR TO THE BEGINNING OF ANY
- 3. NO SEWER INSTALLATION SHALL HAVE AN INFILTRATION EXCEEDING 50 GALLONS PER INCH OF DIAMETER PER MILE OF PIPE PER 24 HOUR PERIOD. EXFILTRATION TESTING SHALL BE CONDUCTED WHERE GROUND WATER IS INSUFFICIENT. ALL INSTALLATIONS SHALL ALSO PASS LOW PRESSURE AIR TEST AS SPECIFIED IN THE CITY OF ROSEVILLE STANDARD SPECIFICATIONS.

ABS COMPOSITE PIPE AND ANY APPROVED PLASTIC PIPE SHALL BE SUBJECT TO DEFLECTION TEST 30 DAYS AFTER CONSTRUCTION WITH A NINE SIDED MANDREL. THE CONTRACTOR MUST SUPPLY THE MANDREL AND PERFORM THE TEST. THE OWNER WILL WITNESS THE TEST. DEFLECTION SHALL NOT EXCEED 5%. THE OWNER OR THEIR REPRESENTATIVE RESERVES THE RIGHT TO TEST THE SEWER FOR DEFLECTION NOT TO EXCEED 7% DURING THE PERIOD OF THE MAINTENANCE BOND. ANY SEWER FOUND EXCEEDING THESE LIMITS SHALL BE REPLACED BY AND AT THE CONTRACTOR'S EXPENSE.

AS PART OF THE FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE FOR TELEVISION INSPECTION OF THE SANITARY SEWER LINES INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL ARRANGE FOR, ENGAGE AND PAY ALL EXPENSES INVOLVED FOR THE SERVICES OF A COMPETENT COMPANY TO PERFORM THIS TELEVISION INSPECTION. THE INSPECTION SHALL BE CARRIED OUT UNDER THE DIRECT SUPERVISION OF THE ENGINEER WITH ALL TELEVISION INSPECTION BEING OBSERVED BY REPRESENTATIVES OF THE OWNER OR ENGINEER AND THE CONTRACTOR. ANY TELEVISION VIEWING PERFORMED IN THE ABSENCE OF THE ENGINEER OR A REPRESENTATIVE OF THE OWNER SHALL NOT BE CONSIDERED A PART OF THE FINAL INSPECTION. ALL TELEVISION INSPECTION SHALL BE RECORDED ON VIDEO TAPE AND TURNED OVER TO THE OWNER FOR READY REFERENCE AT A LATER DATE. THE VIDEO RECORDING SHALL DISPLAY CONTINUOUSLY THE DATE, TIME AND ENGINEERING STATIONS AND SHALL PERIODICALLY DISPLAY THE NAME OF THE PROJECT, NAME OF THE AREA COVERED AND DIRECTION OF TRAVEL. THE TAPE MUST BE COMPATIBLE WITH RCA MODEL VKT-275 VIDEO CASSETTE PLAYER 1/2 INCH VHS FORMAT

- 4. INFILTRATION SHALL BE TESTED BY THE OWNER UTILIZING CALIBRATED WEIRS OR FLUMES INSERTED IN THE PIPE FLOWLINE AT A MANHOLE. TEST SECTIONS SHALL GENERALLY BE LIMITED TO A MAXIMUM LENGTH OF ONE HALF MILE. THE OWNER RESERVES THE RIGHT TO TEST SHORTER PIPE LENGTH SEGMENTS IF HE DEEMS IT NECESSARY TO ASSURE THAT NO SEGMENT EXCEEDS THE INFILTRATION LIMITS.
- HOUSE OR BUILDING LEAD PIPE, WYES AND CAPS SHALL BE SOLID WALL PLASTIC PIPE, ABS ( A.S.T.M. D-2751, SDR 23.5 ) OR PVC ( A.S.T.M. D-2241, SDR 23.5 OR A.S.T.M. D-2466, SCH. 40 ) WITH JOINTS AS SPECIFIED IN NOTE #15. THE JOINT BETWEEN NYO DISSIMILAR SIZES OR TYPES OF BUILDING LEAD PIPE "SHALL BE MADE WITH A PROPER SIZE FERNCO DONUT, OR APPROVED EQUAL, WITH POLYVINYL JOINT SEALER. A RUBBER BOOT WITH CLAMPS IS NOT ACCEPTABLE.
- 6. ALL SEWER PIPE SHALL BE INSTALLED IN CLASS "C" BEDDING OR BETTER, IN CONFORMANCE WITH THE DETAILS PROVIDED.
- ALL NEW MANHOLES SHALL HAVE WATER AND SEWER DEPARTMENT APPROVED FLEXIBLE, WATER-TIGHT SEALS WHERE PIPES PASS THROUGH WALLS. MANHOLES SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH ASTM C478 CURRENT SPECIFICATIONS. PRECAST MANHOLE JOINTS AND GASKETS SHALL BE MODIFIED TONGUE AND GROOVE IN ACCORDANCE WITH ASTM C361 CURRENT SPECIFICATIONS. PRECAST MANHOLE CONE SECTIONS SHALL BE CITY OF ROSEVILLE APPROVED SEWER & WATER MODIFIED ECCENTRIC CONE TYPE. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATER-TIGHT COVERS. MANHOLE STEPS SHALL NORMALLY BE PROVIDED ON A BACK WALL OF THE MANHOLE FURTHEST FROM TRAFFIC.
- 8. AT THE CONNECTIONS TO MANHOLES, SEWERS OR EXTENSIONS THERETO, DROP CONNECTIONS WILL BE REQUIRED WHEN THE DIFFERENCE IN INVERT ELEVATIONS EXCEEDS 18 INCHES. THE DROP CONNECTIONS WILL BE EXTERIOR TYPE AS APPROVED BY THE SEVER AND WATER DEPARTMENT. THE USE OF INTERIOR TYPE DROP CONNECTIONS WILL BE BASED UPON MANHOLE SIZE, GROUND WATER AND SOIL CONDITIONS AT THE LOCATION WHERE THE TAP WILL BE PERFORMED.
- EXISTING PRE-CAST CONCRETE MANHOLES SHALL BE TAPPED WITH THE "KOR-N-SEAL" METHOD FOR SEWERS 6" THRU 15" IN DIAMETER. EXISTING BRICK AND MANHOLE TAPS FOR 18" DIAMETER SEWERS AND LARGER WILL HAVE HOLES DRILLED AT 4 INCHES CENTER TO CENTER AROUND THE PERIPHERY OF THE OPENING TO CREATE A PLANE OF WEAKNESS BEFORE BREAKING OUT THE SECTION. NON-SHRINK GROUT SHALL BE USED TO SEAL THE OPENING AND A CONCRETE LAR SHALL BE POURED 12 INCHES AROUND THE PIPE AND EXTEND 12 INCHES BEYOND THE
- 10. NEW MANHOLES CONSTRUCTED DIRECTLY ON CITY OF ROSEVILLE SANITARY SEWER SHALL BE PROVIDED WITH COVERS READING "CITY OF ROSEVILLE SANITARY SEWER" IN RAISED LETTERS. NEW MANHOLES BUILT OVER ANY EXISTING SANITARY SEWERS SHALL HAVE MONOLITHIC POURED BOTTOMS.
- 11. NO GROUND WATER, STORM WATER, CONSTRUCTION WATER, DOWNSPOUT DRAINAGE OR WEEP TILE DRAINAGE SHALL BE ALLOWED TO ENTER ANY SANITARY SEWER INSTALLATION.

- 12. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL TELEPHONE MISS DIG ( 1-800-482-7171 ) FOR THE LOCATION OF UNDERGROUND GAS AND CABLE FACILITIES AND SHALL ALSO NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COSTS FOR LOCATING, REMOVING AND REPLACING OR RELOCATING THESE UTILITIES SHALL BE INCLUDED IN THE COST OF CONSTRUCTING THE SANITARY SEWER. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL. THE CONTRACTOR SHALL VERIFY THE DEPTH AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES BEFORE ANY WORK IS STARTED. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY
- 13. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SANITARY SEWER, WATER OR STORM SEWER SERVICE CONNECTIONS DURING CONSTRUCTION. ANY ADJUSTMENTS OR REPAIRS TO THESE SERVICES SHALL BE MADE BY THE CONTRACTOR AND THE COST SHALL BE INCLUDED IN THE COST FOR CONSTRUCTING THE SANITARY SEWER, UNLESS OTHERWISE PROVIDED IN THE CONTRACT.
- 14. THE CONTRACTOR IS REQUIRED TO CONTACT THE INSPECTION SECTION OF DETROIT WATER AND SEWERAGE DEPARTMENT AT 833-4682, THREE WORKING DAYS PRIOR TO START OF ANY SANITARY SEWER CONSTRUCTION.
- 15. SEWER PIPE MATERIAL:
- 1. 8" THROUGH 15" PIPE SHALL BE A.B.S. ( ACRYLONITRILE-BUTADIENE-STYRENE ) OR P.V.C. ( POLY-VINYL-CHLORIDE ) COMPOSITE SEWER PIPE CONFORMING TO THE CURRENT ASTM D2680 SPECIFICATIONS WITH TYPE SC JOINTS FOR A.B.S. AND GASKETED JOINTS FOR P.V.C. SOLID WALL PIPE SHALL BE SDR 23.5.
- 2. 18" AND LARGER PIPE SHALL BE REINFORCED CONCRETE CIRCULAR SEWER PIPE CONFORMING TO THE CURRENT ASTM SPECIFICATION C-76 ( WALL C ) WITH SIZE AND CLASS AS INDICATED ON THE PLANS. ALL REINFORCED CONCRETE SEWER PIPE SHALL BE CAST WITH REINFORCING STEEL EXTENDING INTO THE SPIGOTS. ALL JOINTS AND GASKETS SHALL BE MODIFIED TONGUE AND GROOVE, CONFORMING WITH THE REQUIREMENTS OF ASTM ( C 361 )
- 3. DUCTILE IRON PIPE-DOUBLE CEMENT LINED CLASS 54 PER ANSI A21.51 AND A21.4. JOINTS AND GASKETS SHALL BE PUSH-ON TYPE PER ANSI A21.11 (TYTON, BELL, TITE, FAST TITE OR APPROVED EQUAL ).
- 16. IN INDUSTRIAL AREAS, PRIVATE SERVICE CONNECTIONS MADE TO THE SERVICE LEAD MUST HAVE AN ACCESSIBLE SAMPLING AND MONITORING MANHOLE. THE MANHOLE SHALL BE LOCATED ON PRIVATE PROPERTY AT A LOCATION APPROVED BY THE CITY OF ROSEVILLE SEWER AND WATER DEPARTMENT. VITRIFIED PIPE MAY NOT BE USED.
- 17. BUILDING LEAD CONNECTIONS SHALL BE MADE WITH 6" WYES FOR A.B.S. AND P.V.C. PIPE AND 6" TEES FOR CONCRETE PIPE. WYES FOR ABS AND P.V.C. PIPE SHALL BE FACTORY FABRICATED ( NOT EXTRUDED ) AND SHALL BE CHECKED FOR IRREGULARITIES WHICH COULD AFFECT THE DEFLECTION TEST PRIOR TO INSTALLATION.
- 18. A CITY, MACOMB COUNTY ROAD COMMISSION, AND/OR MICHIGAN DEPARTMENT OF TRANSPORTATION PERMIT IS REQUIRED FOR ALL CONSTRUCTION WITHIN THEIR ROAD RIGHT-OF-WAYS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ALL PERMITS AND BONDS PRIOR TO CONSTRUCTION, OR INSURE THAT ALL REQUIRED PERMITS AND BONDS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.
- 19. THE CONTRACTOR SHALL ABIDE BY ALL THE REQUIREMENTS OF THE ROAD RIGHT-OF-WAY OWNER REGARDING CONSTRUCTION OF WATER AND SEWER MAINS, MAINTAINING TRAFFIC, BARRICADING, BORING, BACKFILL AND RESTORATION.
- 20. NO WASTE EXCAVATION MATERIAL SHALL BE DISPOSED OF BY PLACING IT IN ANY FLOODPLAIN OR WET LAND OF THE STATE UNLESS APPROPRIATE PERMITS HAVE BEEN ISSUED. THE CONTRACTOR OR PROPERTY OWNER MUST OBTAIN LOCAL FILL PERMITS FOR ANY MATERIALS DEPOSITED UPON LANDS WITHIN ANY CITY, VILLAGE OR TOWNSHIP.
- 21. THE CONTRACTOR SHALL FURNISH A DETAILED PLAN TO THE MACOMB COUNTY DEPARTMENT OF PUBLIC WORKS AND OBTAIN A SOIL EROSION CONTROL PERMIT UNDER THE ACT 347 PRIOR TO MAKING ANY EARTH CHANGES
- 22. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH MATERIAL CERTIFICATES TO THE OWNER VERIFYING THAT ALL THE MATERIALS USED ON THE PROJECT ARE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 23. IF AN EXISTING GRAVEL ROAD IS DISTURBED BY CONSTRUCTION EQUIPMENT OR BY STOCKPILING OF MATERIALS OUTSIDE THE EXCAVATION AREA, A MINIMUM OF 8" OF 23A GRAVEL SHALL BE USED TO REPLACE THE DISTURBED
- 24. ALL CONSTRUCTION CHANGES MUST HAVE WRITTEN APPROVAL OF THE PROJECT ENGINEER. 25. THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP CONSTRUCTION EXCEPT FOR REASONS BEYOND HIS CONTROL SUCH AS, BUT NOT LIMITED TO STRIKES, WEATHER AND UNAVAILABILITY OF

- THE CONTRACTOR SHALL PROVIDE A ONE YEAR MAINTENANCE AND GUARANTEE BOND TO THE CITY, DATED FROM THE TIME OF FINAL ACCEPTANCE BY THE CITY.
- THE CONTRACTOR SHALL HAVE THE OPTION OF STARTING CONSTRUCTION AT THE FIRST MANHOLE UPSTREAM OF THE POINT OF CONNECTION TO THE EXISTING SYSTEM.  $\Lambda$ TEMPORARY TEST MANHOLE MAY BE USED NEAR THE POINT OF CONNECTION RATHER THAN A PERMANENT ONE, AND THE CONTRACTOR MAY LEAVE THE BASE OF THE TEMPORARY MANHOLE IN PLACE. LINES UP TO 400 FEET IN LENGTH ( TOTAL LENGTH OF EXTENSION ) MAY BE TESTED WITHOUT PLACEMENT OF THE MANHOLE BASE PROVIDED THE LINES ARE TESTED AND PUT IN SERVICE IMMEDIATELY FOLLOWING CONSTRUCTION.
- THE ENTIRE PROJECT AREA OF PUBLICLY FUNDED PROJECTS, AND ALL AREAS NOT UNDER THE OWNERSHIP OF ANY PRIVATE DEVELOPER FOR PRIVATELY FUNDED PROJECTS, SHALL BE VIDEO TAPED IN COLOR PRIOR TO THE START OF CONSTRUCTION. THE TAPE SHALL E UTILIZED BY THE CITY TO DETERMINE CONSTRUCTION RELATED DAMAGE AND TO ASSURE ADEQUATE RESTORATION. THE TAPE SHALL BE STANDARD 1/2" VHS FORMAT.
- ALL PRECAST MANHOLES, SLAB BASES AND CONCRETE PIPE SHALL BE MANUFACTURED WITH TYPE II, IP OR IIA CEMENT. ALL CONCRETE FOR CHANNELIZATION SHALL BE MADE WITH TYPE II, IP OR IIA CEMENT.
- ALL TERMINAL MANHOLES AND ANY INTERMEDIATE MANHOLES WHERE FUTURE DROP CONNECTIONS ARE A POTENTIAL SHALL BE 1 FOOT LARGER IN DIAMETER THAN WOULD OTHERWISE BE REQUIRED, AND SHALL BE NO SMALLER THAN 5 FEET IN DIAMETER.
- 31. DUCTILE IRON PIPE SHALL BE USED FOR THE SANITARY SEVER AT ALL WATER MAIN AND SANITARY SEWER CROSSINGS WITH LESS THAN 2 ( TWO ) FEET OF VERTICAL CLEARANCE AND WHERE THE WATER MAIN CROSSES BELOW THE SEWER, REGARDLESS OF VERTICAL CLEARANCE DISTANCE. THE DUCTILE IRON PIPE SHALL BE OF EQUAL SIZE ( OR LARGER ) AS THE PROPOSED SEWER AND SHALL EXTEND FROM MANHOLE TO MANHOLE
- 32. TRENCH DETAIL "A" ( T.D.-A ) BACKFILL TO A POINT 12" ABOVE THE PIPE SHALL BE AS SPECIFIED ON THE PLANS. THE REMAINDER OF THE BACKFILL SHALL BE MADE WITH SUITABLE EXCAVATED MATERIAL ( EXCLUDING BLUE CLAY ) PLACED IN ONE-FOOT LAYERS WITH EACH LAYER BEING THOROUGHLY COMPACTED BY APPROVED MECHANICAL METHODS, OR OTHER EFFECTIVE MEANS HAVING THE APPROVAL OF THE ENGINEER, TO A DENSITY EQUIVALENT TO THE UNDISTURBED ADJACENT SOIL, OR 90% OF MAX. UNIT WEIGHT, WHICHEVER IS GREATER. WHEN TRENCH DETAIL "A" IS SPECIFIED, THERE WILL BE NO ADDITIONAL COMPENSATION FOR SAND BACKFILL. ALL AREAS OF SUCH TRENCH DETAIL "A" SHALL BE SURFACED WITH GRAVEL, STONE, PAVEMENT OR TOPSOIL IN ACCORDANCE WITH THE REQUIREMENTS OF RESTORATION ( SEE NOTE 23 ).
- 33. TRENCH DETAIL "B" ( T.D.-B ) BACKFILL TO A POINT 12" ABOVE THE PIPE SHALL BE AS SPECIFIED ON THE PLANS. THE REMAINDER OF ALL TRENCHES UNDER PUBLIC ROADWAYS AND WITHIN THAT AREA BELOW A LINE PROJECTED AT A 1 ON 1 SLOPE DOWN AND AWAY FROM A POINT 3 FEET OUTSIDE OF THE BACK OF CURB, EDGE OF PAYEMENT OR EDGE OF SHOULDER AREA, OR AS SPECIFIED ON THE PLANS, SHALL BE BACKFILLED WITH BANKRUN SAND MEETING THE REQUIREMENTS OF POROUS MATERIAL, MDOT SEC. 8.02.05, CLASS II, AND IS TO BE COMPACTED TO 95% OF MAX. UNIT WEIGHT. WHEN TRENCH DETAIL B IS IN A DITCH OR TURF AREA, IT SHALL BE SURFACED WITH 2" TO 12" OF ORGANIC CLAY MATERIAL AND WITH 3" OF TOPSOIL. ALL OTHER AREAS OF TRENCH DETAIL B SHALL BE SURFACED WITH GRAVEL, STONE OR PAVEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF RESTORATION ( SEE NOTE 23 ).
- THE END OF A SANITARY LEAD SHALL BE CONSTRUCTED TO A MINIMUM DEPTH OF 8 1/2 FEET OR 9 1/2 FEET MAXIMUM BELOW THE PROPOSED GRADE AS SHOWN ON THE BUILDING LEAD DETAIL. THE LEAD LOCATION SHALL BE MARKED AS SHOWN IN THE DETAIL.
- 35. THE VERTICAL TOLERANCE FOR SANITARY MANHOLE RIM GRADES ARE AS FOLLOWS:
  - A) IN RIGHT OF WAY 0.00 FEET TO +0.25 FEET
  - B) NOT IN RIGHT OF WAY +0.25 FEET
- 36. MANHOLE STEPS SHALL BE FACTORY INSTALLED AT 16 INCHES CENTER TO CENTER SPACING. STEPS SHALL BE M.A. INDUSTRIES P.S.I. POLYPROPYLENE MSU #360 ALU POLY ( OR APPROVED EQUAL ).
- 37. THE CONTRACTOR IS REQUIRED TO CONTACT THE OFFICE OF THE MACOMB COUNTY PUBLIC WORKS COMMISSIONER AT 469-5325, 48 HRS. BEFORE CONSTRUCTION.

ROSEVILLE

STANDARD SANITARY SEWER DETAILS ( 2 OF 2 )

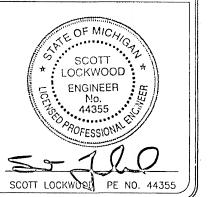
SEWER AND WATER DEPARTMENT APPROVED BY : BRIAN D. McGRAIL, DIRECTOR JANUARY8, 2004

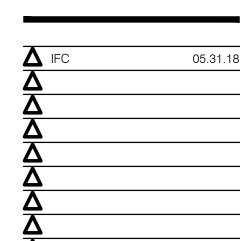
OF



ANDERSON, ECKSTEIN AND WESTRICK, INC. Civil Engineers • Surveyors • Architects 51301 Schoenherr Road, Shelby Township, Michigan 48315 Phone 586•726•1234 Fax 586•726•8780

MARCH 2003 CHECKED BY DRAWN BY





**Professional Corporation** 

520 South Main Street, Suite 2531

330.572.2100 Fax: 330.572.2102

Akron, OH 44311

CONTRACT DATE: **BUILDING TYPE** PLAN VERSION: SITE NUMBER:

TACO BELL

STORE NUMBER:

20779 13 MILE RD. ROSEVILLE, MI



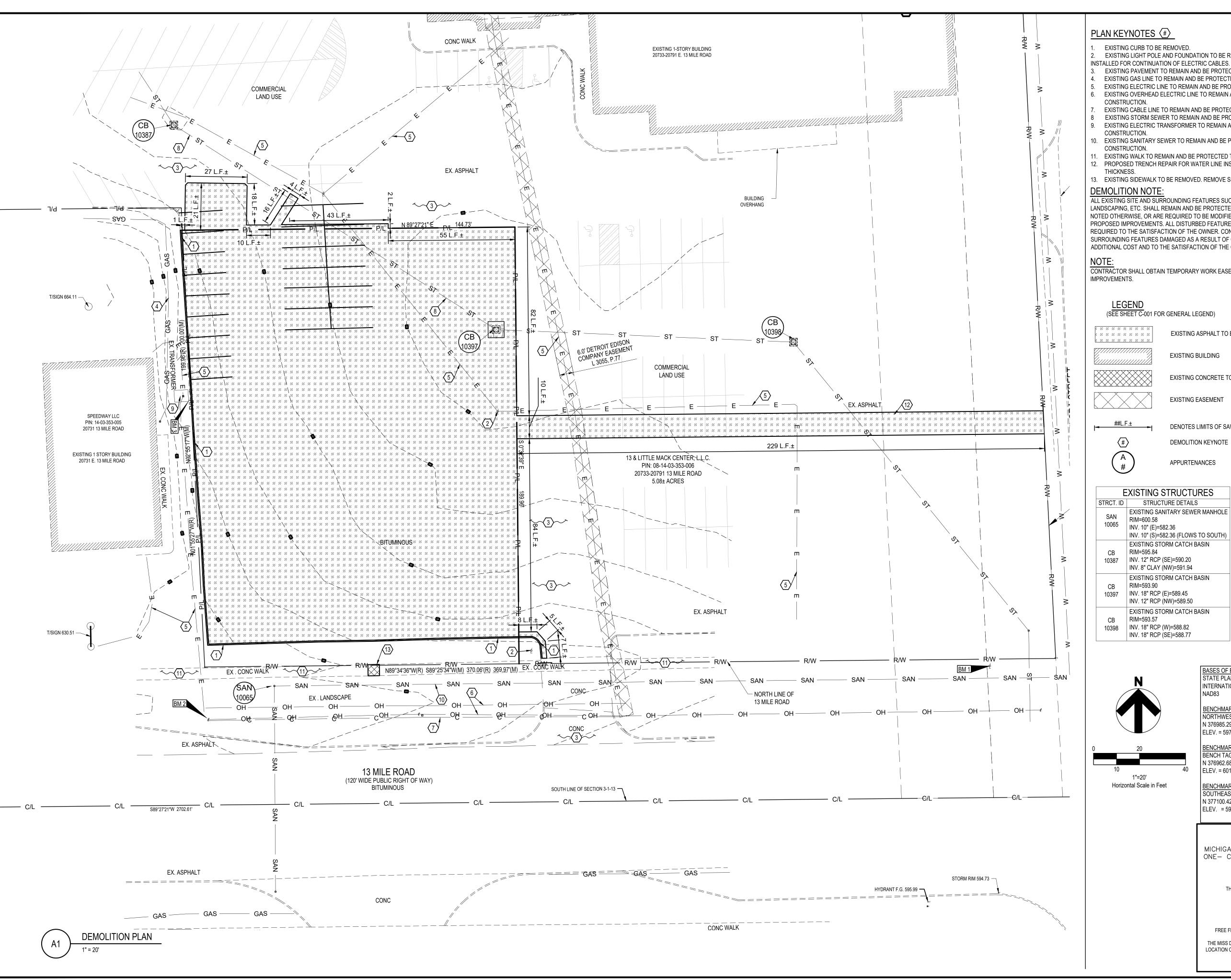
**OPEN KITCHEN** MODERN EXPLORER

CITY OF ROSEVILLE **NOTES** 



T40M-O

2016088.09

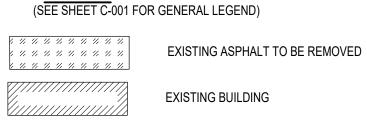


- EXISTING LIGHT POLE AND FOUNDATION TO BE REMOVE AND PULL BOX TO BE
- EXISTING PAVEMENT TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. EXISTING GAS LINE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING ELECTRIC LINE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. EXISTING OVERHEAD ELECTRIC LINE TO REMAIN AND BE PROTECTED THROUGHOUT
- 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
- 10. EXISTING SANITARY SEWER TO REMAIN AND BE PROTECTED THROUGHOUT
- 11. EXISTING WALK TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- 12. PROPOSED TRENCH REPAIR FOR WATER LINE INSTALLATION. MATCH EXISTING PAVEMENT
- 13. EXISTING SIDEWALK TO BE REMOVED. REMOVE SIDEWALK TO THE NEAREST JOINT.

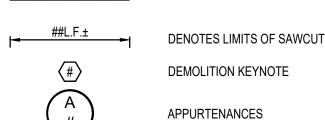
ALL EXISTING SITE AND SURROUNDING FEATURES SUCH AS UTILITIES, PAVEMENT, CURB, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE, OR ARE REQUIRED TO BE MODIFIED OR REMOVED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. ALL DISTURBED FEATURES SHALL BE RESTORED 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.

CONTRACTOR SHALL OBTAIN TEMPORARY WORK EASEMENT FOR PROPOSED OFF-SITE

EXISTING CONCRETE TO BE REMOVED



EXISTING EASEMENT



EXISTING STRUCTURES		
STRCT. 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 CB 10398	EXISTING STORM CATCH BASIN RIM=593.90 INV. 18" RCP (E)=589.45 INV. 12" RCP (NW)=589.50	
	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

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

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

ELEV. = 599.29'

SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD N 377100.42, E 13516520.36



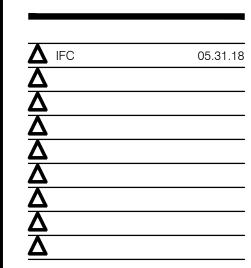
THREE FULL WORKING DAYS BEFORE YOU DIG, CALL THE MISS DIG SYSTEM AT

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.





CONTRACT DATE PLAN VERSION: SITE NUMBER:

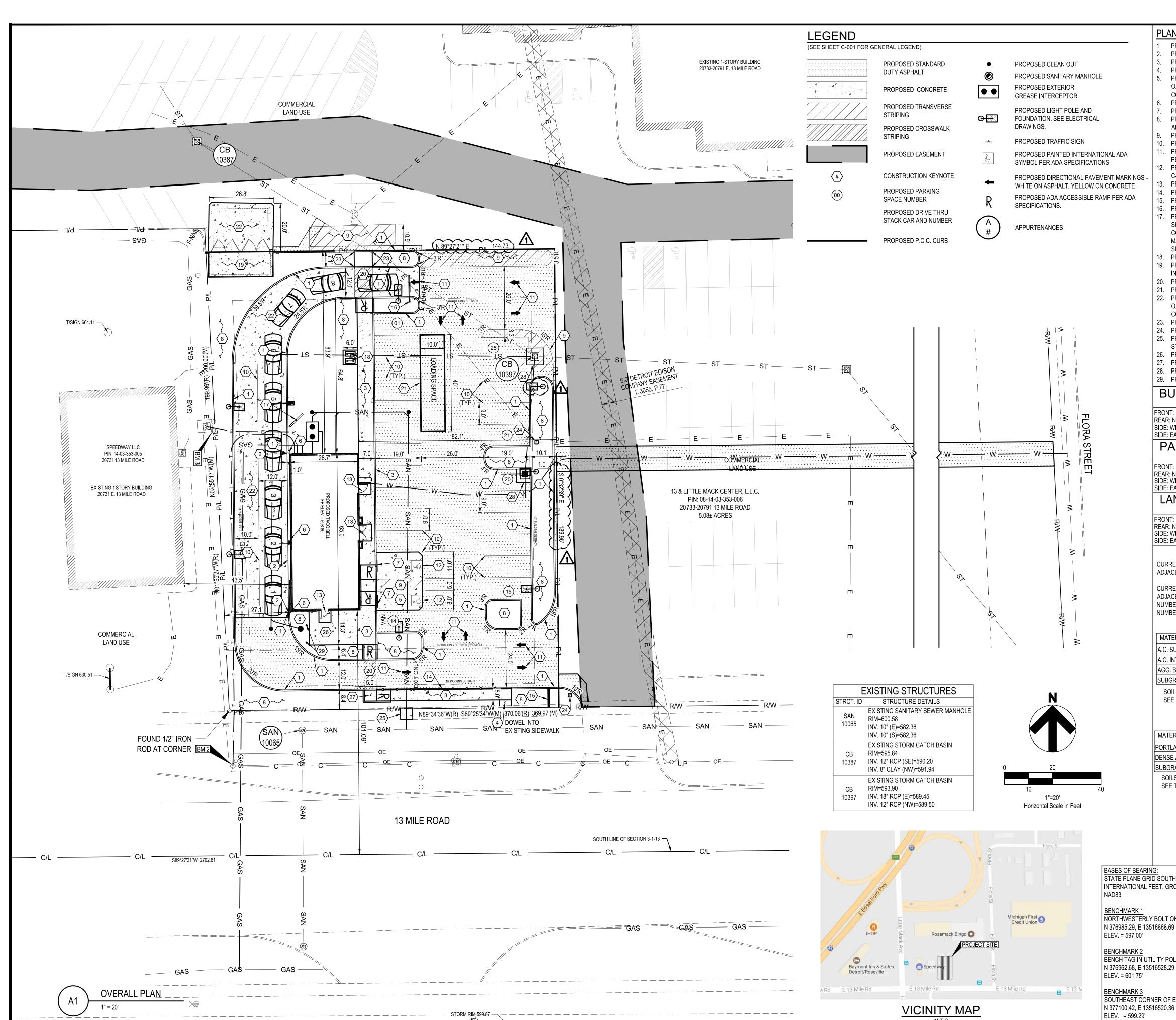
STORE NUMBER:

TACO BELL

20779 13 MILE RD. ROSEVILLE, MI



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



| 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
- PROPOSED FROST SLAB AT DOOR. SEE STRUCTURAL DRAWINGS.
- PROPOSED HANDRAIL, SEE 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.
- 19. 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. DO NOT PAINT STRIPING.
- 22. 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.
- 4. PROPOSED PULLBOX FOR CONTINUATION OF EXISTING ELECTRICAL CABLES.
- 25. PROPOSED CONCRETE SIDEWALK REPLACEMENT TO NEAREST JOINT PER CITY OF ROSEVILLE STANDARDS AND SPECIFICATIONS.
- 26. PROPOSED PATIO AREA SEE ARCHITECTURAL SHEET A2.0 FOR LAYOUT INFORMATION. 27. PROPOSED FLUSH CURB AND WALK. SEE SHEET C-501.
- 28. PROPOSED CONCRETE COLLAR. SEE SHEET C-502.
- 29. PROPOSED BOLLARD. SEE SHEET C-501.

BUILDING SETBACKS			PARKING SPACES		
	REQUIRED	PROVIDED		REQUIRED	PROVIDED
FRONT: 13 MILE RD REAR: NORTH SIDE: WEST SIDE: EAST PARKING SI	60' 20' 10' 10' <b>□ T D ∧ (</b>	40.9' 72.0' 27.7' 75.0'	NUMBER OF SPACES PARKING REQUIREMENTS 1 SPACE FOR EVERY 2 SE EVERY EMPLOYEE IN THE SHIFT. SUBTRACT REQUI	- EATS PLUS 1 SI E LARGEST WC	RKING
PARKING SI	REQUIRED		PROVIDED BIKE RACK.		
FRONT: 13 MILE RD REAR: NORTH SIDE: WEST	10' 0' 0'	8.2' 6.6' 3.5'	THEREFORE: 40 / 2 = 20 + 8 EMPLOYEE PARKING = 28 STALLS - 4 BIKE PARKING SPOTS = 24 REQUIRED STALLS		
SIDE: EAST  LANDSCAPE	SETBA	10.6' ACKS	LAND USE DATA		I AREA
	REQUIRED			PERCENTAGE OF SITE AREA	
FRONT: 13 MILE RD REAR: NORTH SIDE: WEST SIDE: EAST	10' 0' 0' 0'	8.2' 6.6' 3.5'	BUILDING PAVEMENT/IMPERVIOUS LANDSCAPING	8.1% 67.7% 24.2%	0.05 AC. 0.42 AC. 0.15 AC.
SIDE. LAGI	U	10.6'	TOTAL	100%	0.62 AC. 26,813 SF

**CURRENT ZONING:** ADJACENT ZONING:

B-2 COMMUNITY BUSINESS DISTRICT B-2 COMMUNITY BUSINESS DISTRICT B-3 GENERAL BUSINESS DISTRICT **CURRENT LAND USE:** COMMERCIAL COMMERCIAL

ADJACENT LAND USE: NUMBER OF SEATING :

NUMBER OF EMPLOYEES DURING LARGEST SHIFT: 8 EMPLOYEES

ASPHALT PAVEMENT DEPTH (HVY. DUTY) MDOT SPECIFICATIONS ITEM MATERIAL A.C. SURFACE COURSE A.C. INTERMEDIATE COURSE MDOT 4E03 AGG. BASE COURSE MDOT 21AA SUBGRADE COMPACTION (MIN) | PER SOILS REPORT | PER SOILS REPORT

SOILS REPORT GOVERNS IF ANY DISCREPANCIES OCCUR.

### SEE TYPICAL SECTION SHEET C-501.

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

**CONCRETE PAVEMENT** 

SOILS REPORT GOVERNS IF ANY DISCREPANCIES OCCUR.

SEE TYPICAL SECTION SHEET C-501.

BASES OF BEARING STATE PLANE GRID SOUTH ZONE, INTERNATIONAL FEET, GROUND DISTANCE NORTHWESTERLY BOLT ON LIGHT POLE N 376985.29, E 13516868.69

BENCH TAG IN UTILITY POLE N 376962.68, E 13516528.29

ELEV. = 601.75' SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD



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05.31.18 ⚠ BULLETIN 1 05.31.18

**Professional Corporation** 

520 South Main Street, Suite 2531

330.572.2100 Fax: 330.572.2102

Akron, OH 44311

CONTRACT DATE: **BUILDING TYPE:** PLAN VERSION: SITE NUMBER:

TACO BELL

STORE NUMBER:

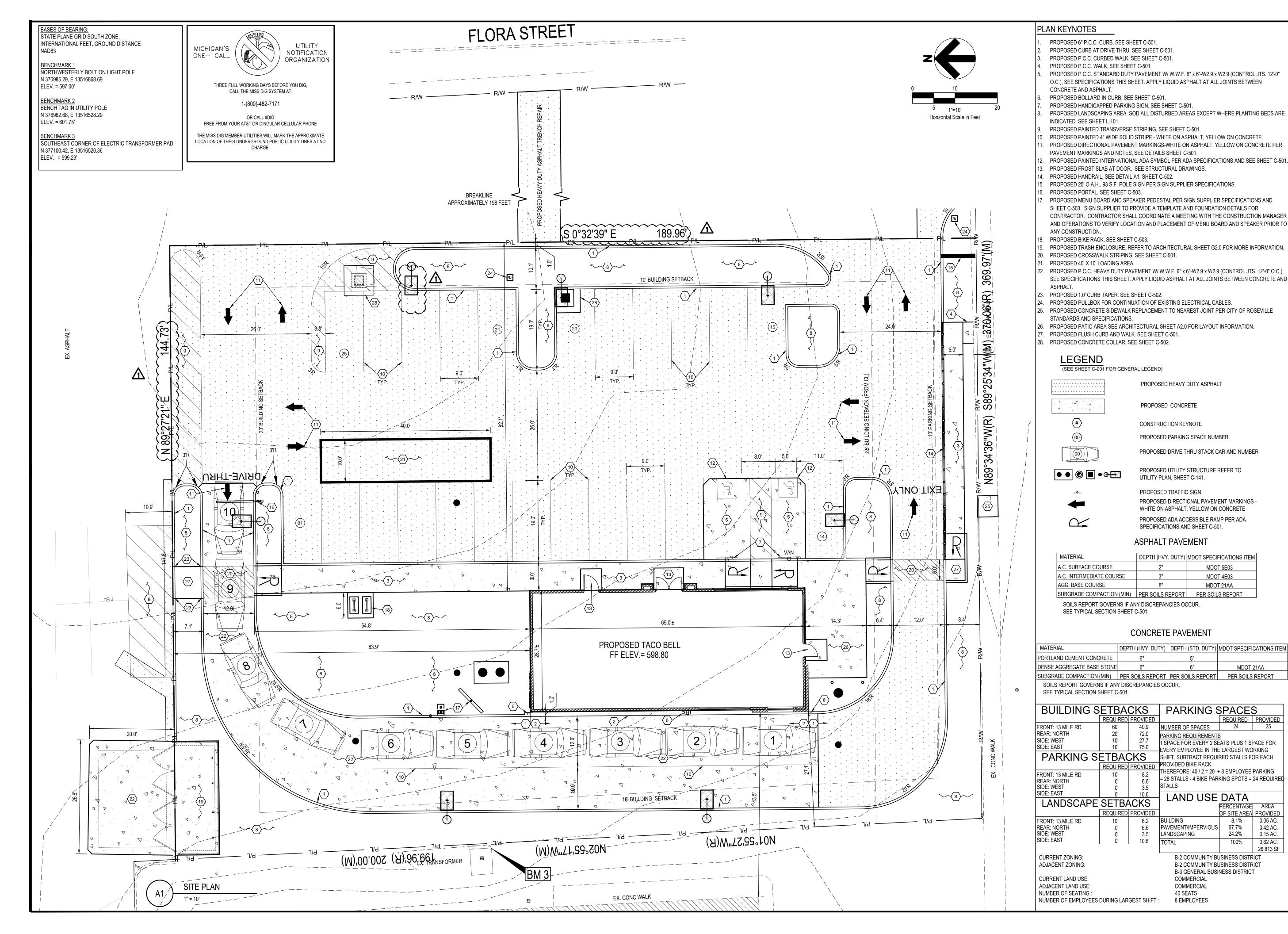
20779 13 MILE RD. ROSEVILLE, MI

2016088.09



OPEN KITCHEN MODERN EXPLORER

SITE PLAN





330.572.2100 Fax: 330.572.2102

Akron, OH 44311

520 South Main Street, Suite 2531

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 05.31.18

 ▲ BULLETIN 1
 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

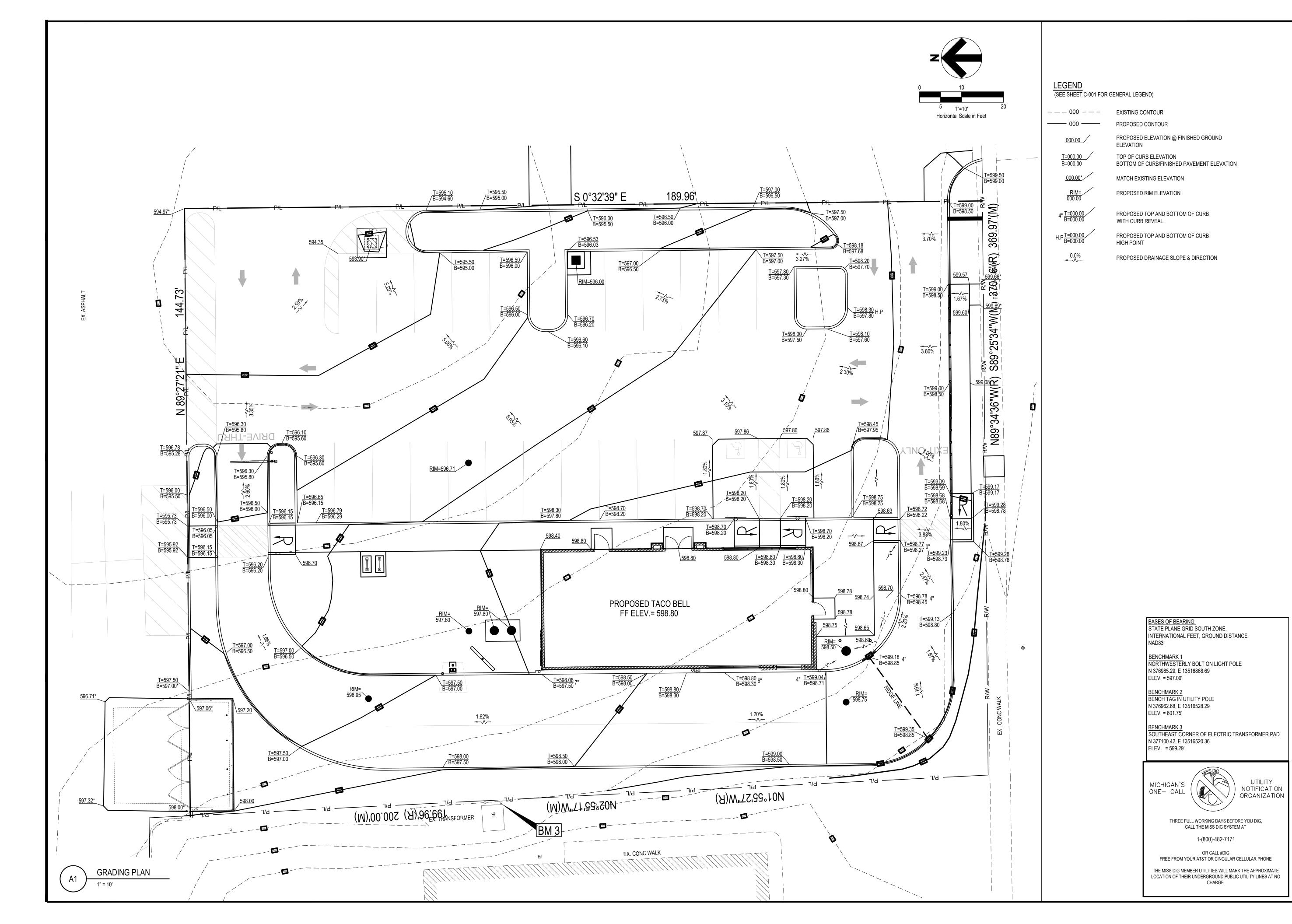
20779 13 MILE RD. ROSEVILLE, MI



T40
OPEN KITCHEN
MODERN EXPLORER

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PLOT DATE: 12.19.





CONTRACT DATE: 01.08.1

BUILDING TYPE: T40MPLAN VERSION: DEC 201

SITE NUMBER: 312262/44287

TACO BELL

20779 13 MILE RD. ROSEVILLE, MI

STORE NUMBER:



T40 OPEN KITCHEN MODERN EXPLORER

GRADING

PLAN 101

### ORM 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 1. 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 ½" 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
- 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 10.
- 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 12. 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:
- a. SILT BARRIERS b. CONSTRUCTION ENTRANCE
- c. 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
  - DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND
  - DON'T POUR DOWN THE SINK, DOOR DRAIN OR SEPTIC TANKS
  - DON'T BURY CHEMICALS OR CONTAINERS DON'T BURN CHEMICALS OR CONTAINERS DON'T MIX CHEMICALS TOGETHER

RESULT IN THE CONTAMINATION OF WATERS OF THE STATE.

CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL

WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.

CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF AT THE

- MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY. APPROVED CD&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 ENCROACH UPON NATURAL WETLANDS, STREAMS OR PLAINS OR
- 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
- 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.

- 11. 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 OI 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 AI APPROVED DISPOSAL FACILITY. IN THE EVENT, LEACHATE OR SEPTAGE IS DISCHARGED; I' 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 AL 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.
- 15. 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.
- 2. DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 3. STAKE AND/OR FLAG LIMITS OF CLEARING.
- 4. 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.
- 5. INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
- 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.
- 10. ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION.
- 11. 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.
- 12. CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES. UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
- 13. 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.
- 14. FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION. BEGIN LANDSCAPE INSTALLATION.
- 15. 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.
- 16. 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.

### 17. REMOVE SEDIMENT CONTROLS.

- 18. 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 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

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

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): TOTAL DISTURBED AREA:

IMPROVEMENTS

0.62 ACRES APPROX. 0.60 ACRES

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

ESTIMATED PRE-CONSTRUCTION IMPERVIOUS AREA: ESTIMATED PRE-CONSTRUCTION IMPERVIOUS PERCENT: PRE-CONSTRUCTION RUN-OFF COEFFICIENT:

93.5% 0.90 PROPOSED LAND USE WILL BE APARTMENT BUILDING WITH PARKING LOT AND AMENITY

0.75

0.58 ACRES

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

### PROJECT LOCATION:

LATITUDE LONGITUDE

### **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 44112 313-215-1400

PHONE NUMBER:

### ANTICIPATED TIMING

CONSTRUCTION BEGIN: CONSTRUCTION COMPLETE: JULY, 2018 CONTRACTOR: T.B.D. CONTACT:

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

05.31.18

SITE NUMBER: 312262/442877 STORE NUMBER: 2016088.09

01.08.18

T40M-O

DEC 2017

**CONTRACT DATE:** 

**BUILDING TYPE:** 

PLAN VERSION:



TACO BELL

20779 13 MILE RD.

**OPEN KITCHEN** 

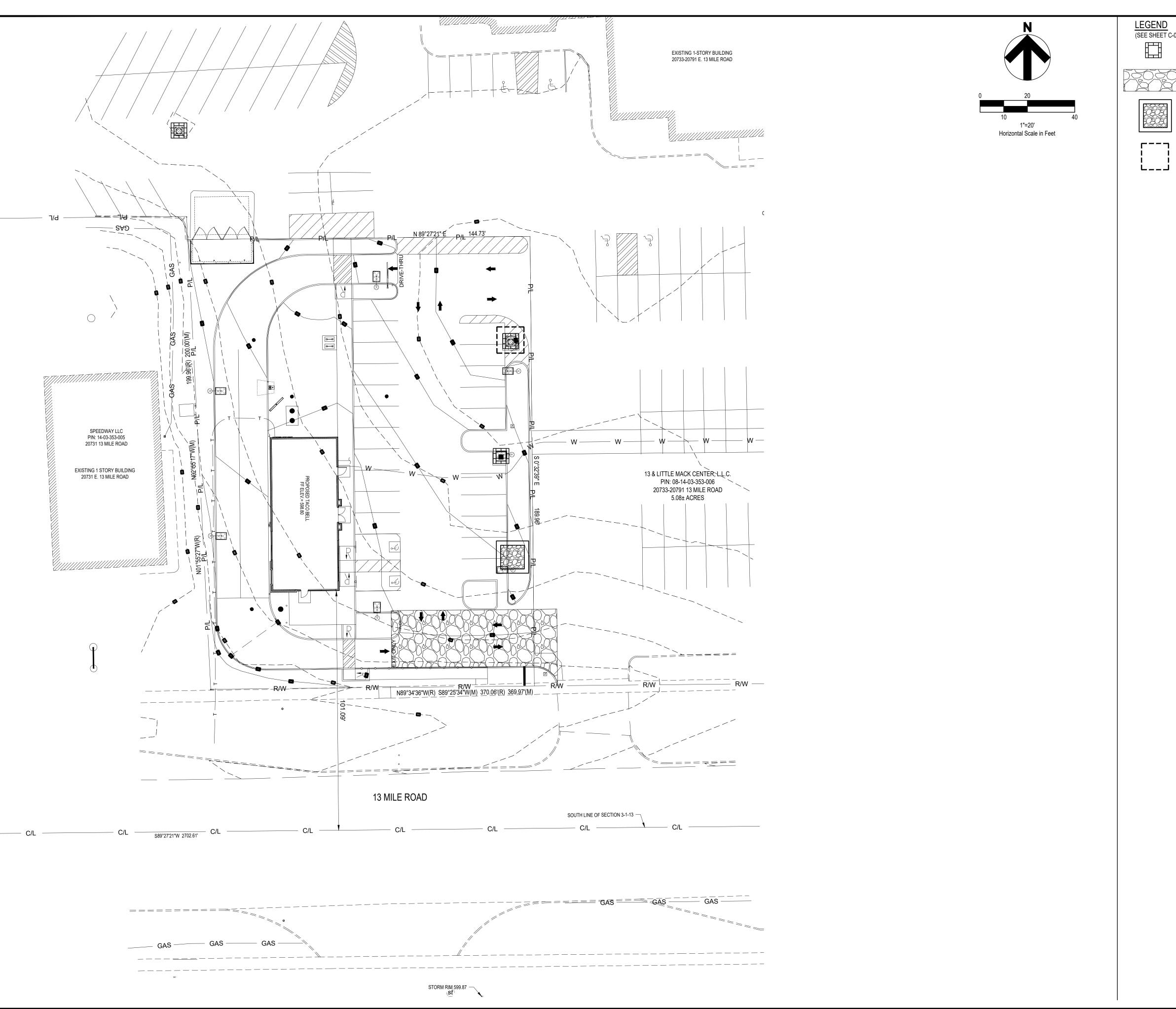
MODERN EXPLORER



**Professional Corporation** 

Akron, OH 44311

330.572.2100 Fax: 330.572.2102



(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

BASES OF BEARING: STATE PLANE GRID SOUTH ZONE,

N 376985.29, E 13516868.69

BENCH TAG IN UTILITY POLE

N 376962.68, E 13516528.29

N 377100.42, E 13516520.36

ELEV. = 597.00'

ELEV. = 601.75'

ELEV. = 599.29'

MICHIGAN'S

ONE- CALL \

INTERNATIONAL FEET, GROUND DISTANCE

NORTHWESTERLY BOLT ON LIGHT POLE

SOUTHEAST CORNER OF ELECTRIC TRANSFORMER PAD

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.

UTILITY

NOTIFICATION

/ ORGANIZATION

PROPOSED FILTER SOCK

05.31.18

**Professional Corporation** 

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

CONTRACT DATE: BUILDING TYPE: PLAN VERSION: SITE NUMBER:

TACO BELL

2016088.09

STORE NUMBER:

20779 13 MILE RD. ROSEVILLE, MI



OPEN KITCHEN MODERN EXPLORER

SWPP

**PLAN** 

- 1. ALL WORK SPECIFIED AS A MDOT ITEM SHALL BE GOVERNED BY THE CURRENT STATE OF MICHIGAN DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSSESS AND TO BE FAMILIAR WITH APPLICABLE SECTIONS.
- 2. THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- 3. ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS NOTED ON THIS SHEET.
- 4. 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 ABOVE AND AS SHOWN ON THE TABLE BELOW, 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.

TABLE 1: SEEDING DATES FOR TEMPORARY VEGETATION COVER

ZONE 1 LOWER PENINSULA,	ZONE 2 LOWER PENINSULA,	ZONE 3	KIND OF SEED	AMOUNT	
SOUTH OF US 10	NORTH OF US 10	UPPER PENINSULA	KIND OF SEED	PER 1,000 SQ. FEET	PER ACRE
APR. 1 TO SEPT. 15	APR. 15 TO AUG. 1	MAY 1 TO AUG. 1	OATS*, BARLEY*	2 LBS.	3 BU
JUNE - JULY	JUNE - JULY	NOT RECOMMENDED	SUDANGRASS	1 LB.	30 - 40 LBS.
AUG. 1 TO OCT. 15	AUG. 1 TO OCT. 10	AUG. 1 TO OCT. 1	RYE*	3 LBS.	2 - 3 BU
SEPT. 20 TO OCT.15	SEPT. 10 TO OCT.10	SEPT. 1 TO OCT.1	WHEAT	3 LBS.	2 - 3 BU

\*INDICATES SPECIES BEST SUITED FOR WILDLIFE FOOD. IMMEDIATELY AFTER SEEDING, MULCH:

- ALL SLOPES
- UNSTABLE SOILS, AND
- HEAVY CLAY SOILS

WITH UNWEATHERED SMALL GRAIN STRAW OR HAY SPREAD UNIFORMLY AT A RATE OF 1.5 TO 2 TONS PER ACRE, OR 100 POUNDS (2-3 BALES) PER 1,000 SQUARE FEET. OTHER SUITABLE MATERIALS MAY BE USED, ACCORDING TO SPECIFICATIONS IN THE MULCHING BMP.

SOURCE: USDA SOIL CONSERVATION SERVICE TECHNICAL GUIDE #342

5. PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 7 DAYS AT THE COMPLETION OF ANY GRADED AREAS, WEATHER

### TABLE 2: SEEDING DATES FOR PERMANENT COVER

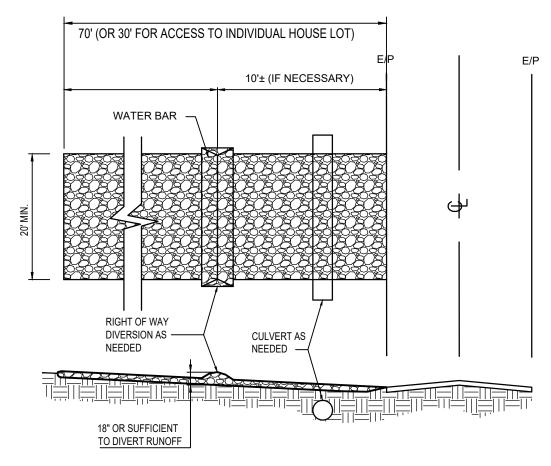
ZONE 1	NORMAL SEEDING DATES	DORMANT SEEDING DATES
LOWER PENINSULA, SOUTH OF US 10	MAY 1 TO OCTOBER 10	NOVEMBER 1 TO FREEZE UP
LOWER PENINSULA, NORTH OF US 10	MAY 1 TO OCTOBER 1	OCTOBER 25 TO FREEZE UP
UPPER PENINSULA, ENTIRE AREA	MAY 1 TO SEPTEMBER 20	OCTOBER 20 TO FREEZE UP

\* DORMANT SEEDING MAY BE DONE IN THE LATE FALL AFTER THE SOIL TEMPERATURE REMAINS CONSISTENTLY BELOW 50oF. THIS IS APPROPRIATE IF CONSTRUCTION ON A SITE IS COMPLETED IN THE FALL BUT SEED WAS NOT PLANTED PRIOR TO NORMAL SEEDING DATES. SINCE THE INITIAL TEMPERATURE FOR SEED GERMINATION IS APPROXIMATELY 50 DEGREES F (SOIL TEMPERATURE), THIS PRACTICE INTENDS GERMINATION WILL NOT OCCUR UNTIL SPRING. EXTRA CEREAL RYE, A COOL SEASON ANNUAL GRASS, MAY BE ADDED TO ATTEMPT TO GET SOME FALL GROWTH.

- MULCHING MUST BE USED ON ANY DORMANT SEED. THIS IS PARTICULARLY IMPORTANT ON EROSIVE SITES.
- DO NOT SEED WHEN THE GROUND IS FROZEN OR SNOW COVERED. DO NOT USE A DORMANT SEEDING ON GRASSED WATERWAYS.
- SOURCE: MODIFIED FROM USDA SOIL CONSERVATION SERVICE TECHNICAL GUIDE.

6. AT SUCH TIME ROUGH GRADING OF THE SITE IS COMPLETE AND DRAINAGE DIVERTS TO INLETS, INLET SEDIMENT FILTERS SHALL

- BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION. 7. SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, YARD DRAINS. INSTALL ROCK
- CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION. 8. 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.
- 9. CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND 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.
- 10. SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT FENCES 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.
- 11. TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR INSPECTION, LOGGING SHALL BE WEEKLY AND AFTER RAIN STORMS.
- 12. UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.
- 13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS
- 14. ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.
- 15. THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES WILL BE USED ON THIS SITE: 15.A. DANDY BAG (SEE SHEET C-501)
- 16. 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.
- 17. DUST SHALL BE CONTAINED USING WATER, OIL IS NOT TO BE USED AS A DUST SUPPRESSANT.
- 18. 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.
- 19. IN THE EVENT OF A LARGE PETROLEUM WASTED SPILL (25 OR MORE GALLONS) CONTRACTOR MUST CONTACT THE MICHIGAN EPA (AT 800-621-8431). THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.
- 20. CONTRACTOR SHALL DISPOSE OF CONCRETE WASTE OFF SITE.





CONSTRUCTION SEQUENCING AND DISTURBING ONLY SMALL AREAS AT A TIME CAN GREATLY REDUCE PROBLEMATIC DUST FROM THE SITE. IF LAND MUST BE DISTURBED, ADDITIONAL TEMPORARY STABILIZATION MEASURES SHOULD BE CONSIDERED PRIOR TO

- APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUSE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS.
- 2) SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- 3) GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABALIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
- 4) EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHTS TO CONTROL AIR CURRENTS AND BLOWING SOIL.
- 5) CALCIUM CHLORIDE MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.
- 6) WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEED TO ACCOMPLISH CONTROL.
- 7) PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET-TYPE ENDLOADER OR SCRAPER.

### MULCHING

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

### 2) MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:

-STRAW SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES) THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND PLACE TWO 45-LB BALES OF STRAW IN EACH SECTION.

-WOOD CELLULOSE FIBER SHOULD BE USED AT 2,000 LB.AC, OR 46 LB/1,000 SQ. FT.

-ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS AND ROLLED EROSION CONTROL PRODUCTS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD MULCH/CHIPS APPLIED AT 10-20 TONS/AC.

3) MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH.

-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 INCHES.

-USE MULCH NETTINGS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING REQUIREMENTS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.

-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.

-WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB/AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB/100 GAL. OF

> SITE INSPECTIONS SHALL BE DONE WEEKLY AND AFTER EVERY RAINFALL EVENT EXCEEDING 1/2" OF RAINFALL. ALL NECESSARY REPAIRS SHOULD BE IMPLEMENTED IMMEDIATELY AFTER SUCH INSPECTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING WEEKLY EROSION CONTROL INSPECTION REPORTS. SUCH REPORTS SHALL BE MADE AVAILABLE TO OWNER, ENGINEER AND CITY / STATE OFFICIALS UPON THEIR REQUEST.

- 1. STONE SIZE NO. 2 STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 2. THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON THE PLAN.
- 3. PAVEMENT THICKNESS STONE LAYER SHALL BE 6" THICK FOR STANDARD DUTY ACTIVITY AND 10" THICK FOR HEAVY DUTY ACTIVITY.
- 4. DRIVEWAY WIDTH THE ENTRANCE SHALL BE AT LEAST 20' WIDE. CONTRACTOR SHALL ENSURE ALL VEHICLES UTILIZE THE CONSTRUCTION ENTRANCE UNTIL PAVEMENT IS IN PLACE.
- BEDDING-A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS MUDDY AREAS. AND MEET THE SPECIFICATIONS SHOWN BELOW.
- CULVERT-A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.

PROJECT NAME:

GRADING

ACTIVITY

INITIATED

SWPPP CONTACT:

TEMPORARY OF

PERMANENT

ACTIVITY

- 7. WATER BAR A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- 8. MAINTENANCE TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- 9. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM
- 10. THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

SWPPP CONTACT:					
AMENDMENT No.	DATE OF AMENDMENT	AMENDMENT PREPARED BY [NAME(S) AND TITLE]	DESCRIPTION OF THE AMENDMENT		
1					
2					
3					
4					
4					
5					
6					

GRADING STABILIZATION

**MEASURES** 

INITIATED

ACTIVITY

CEASED

GRADING AND

LOCATION AND DESCRIPTION

OF THE GRADING ACTIVITY

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STABILIZATION LOG		lacksquare
		<u> </u>

DESCRIPTION OF THE STABILIZATION MEASURE AND

CONTRACT DATE: **BUILDING TYPE:** T40M-O PLAN VERSION: DEC 2017 SITE NUMBER:

05.31.18

2016088.09

Akron, OH 44311

330.572.2100 Fax: 330.572.2102

TACO BELL

20779 13 MILE RD. ROSEVILLE, MI

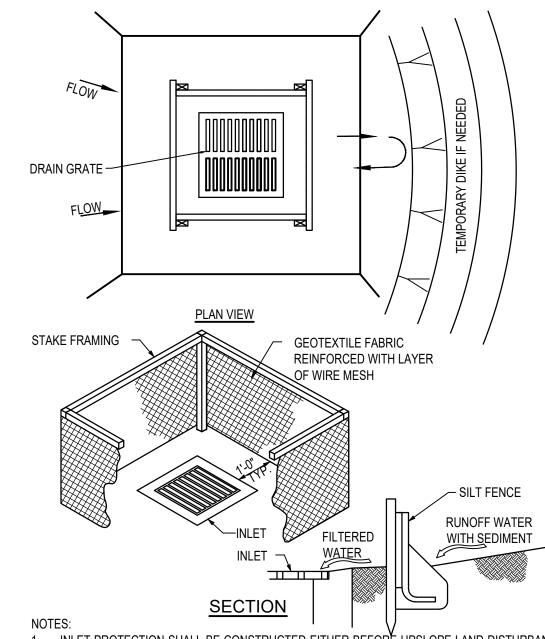
STORE NUMBER:



OPEN KITCHEN MODERN EXPLORER

SWPP NOTES **AND DETAILS** 





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.

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.

THE SILT FENCE SHALL BE STAPLED WITH HEAVY DUTY WIRE STAPLES AT LEAST 1/2 INCH LONG, TO THE WOODEN STAKES, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE HEIGHT OF THE FILTER BARRIER SHALL BE A MINIMUM OF 15 INCHES AND SHALL NOT EXCEED 18 INCHES (PLATE 1.08B)

6. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.

7. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP

AROUND THE OUTSIDE PERIMETER OF THE STAKES. 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:

ALL CONCRETE | BLACK LETTERS

CHANNEL POST

—FINISH GRADE

SIGN SHALL BE PLACED IN

A PROMINENT LOCATION

AT WASHOUT AREA

WASHOUT SIGN

/ EXISTING GRADE —

WOOD STAKE (TYPICAL)

6" MIN IMBEDMENT (TYPICAL)

SHALL ON WHITE BACKGROUND

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.



YARD INLET PROTECTION

AL TYPE	3 mil HDPE	5 mil HDPE		MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (MFPP)
RIAL	PHOTO-	PHOTO-	BIO-	РНОТО-	PHOTO-
DICTION	DECDADADLE				

COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 mil HDPE	5 mil HD	PE	5 mil HDPE	(MFPP)	POLYPROPYLENE (MFPP)	
MATERIAL	PHOTO-	PHOTO	)-	BIO-	PHOTO-	PHOTO-	
CHARACTERISTICS	DEGRADABLE	DEGRADA	BLE	DEGRADABLE	DEGRADABLE	DEGRADABLE	
		12"		12"	12"	12"	
SOCK	12"	18"		18"	18"	18"	
DIAMETERS	18"	24"		24"	24"	24"	
		32"		32"	32"	32"	
MESH OPENING	3/8"	3/8"		3/8"	3/8"	1/8"	
TENSILE STRENGTH		26 PSI		26 PSI	44 PSI	202 PSI	
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	% AT 1000 HR.	23% A <sup>-</sup> 1000 HF	-		100% AT 1000 HR.	100% AT 1000 HR.	
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTH		6 MONTHS	1 YEAR	2 YEARS	
			T۱	NO-PLY SYSTE	MS		
				ŀ	HDPE BIAXIAL NET		
ININIED	CONTAINMENT			CON	NTINUOUSLY WOUN	ND .	
			FUSION-WELDED JUNCTURES				
NETTIN	NETTING			3/4" X 3/4" MAX. APERTURE SIZE			

INNER CONTAINMENT		CONTINUOUSLY WOUND
NETTING -	FUSION-WELDED JUNCTURES	
	NETTING	3/4" X 3/4" MAX. APERTURE SIZE
		COMPOSITE POLYPROPYLENE FABRIC
OUTER FILTRATION MESH	(WOVEN LAYER & NON-WOVEN FLEECE MECHANICALL)	
	FUSED VIA NEEDLE PUNCH)	
2311		3/16" MAX. APERTURE SIZE
	SOCK FABRICS COMPOSED OF BURLAP	MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LES

COMPOST SHALL MEET THE FOLLOWING STANDARDS: 80% - 100% (DRY WEIGHT BASIS) ORGANIC MATTER CONTENT ORGANIC PORTION FIBROUS AND ELONGATED 5.5 - 8.0 MOISTURE CONTENT 35% - 55%

BLOWN \_\_ 2" X 2" WOODEN STAKES PLACED 10' O.C. PLACED COMPOST FILTER SOCK UNDISTURBED AREA FILTER MEDIA → DISTURBED AREA 12" MIN. 🚶 📗 NTS **EXISTING** CONTOURS DISTURBED COMPOST 2" X 2" WOODEN STAKES PLACED 10' O.C. FILTER SOCK UNDISTURBED AREA PLAN VIEW NTS

ADAPTED FROM FILTREXX

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.

PARTICLE SIZE

SOLUBLE SALT CONCENTRATION

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 ½ 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.



ION-WOVEN FLEECE MECHANICALLY		
D VIA NEEDLE PUNCH)		
MAX. APERTURE SIZE	<b> ▲</b> IFC	05.31.18
OJECTS LASTING 6 MONTHS OR LESS		00.01.10
COLOTO ENOTINO O MICINITIO CIN EECO	ΙΔ	
	I <del>**</del>	
80% - 100% (DRY WEIGHT BASIS)	Δ	
FIBROUS AND ELONGATED	ΙΔ	
5.5 - 8.0	<del> </del>	
35% - 55%	4	
98% PASS THROUGH 1" SCREEN	ΙΔ	
5.0 dS MAXIMUM	Λ	
	I <del>\                                   </del>	
AKES PLACED 10' O.C.	<u> </u>	
SOCK	4	
FΑ		

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

TACO BELL

20779 13 MILE RD. ROSEVILLE, MI



OPEN KITCHEN MODERN EXPLORER

SWPP **NOTES** 

PLOT DATE:

CONCRETE WASHOUT AREA

SHEETING T

— BINDING WIRE

SEASONAL HIGH

POLYETHYLENE SHEETING

V -----

STRAW BALE (TYPICAL)

– 6" MIN DEPTH GROUNDWATER TABLE

CONTAIN THE LIQUID WASTES GENERATED.

<u>PLAN</u>

10 MIL POLYETHYLENE

— AGGREGATE——

AGGREGATE ALL AROUND

WASHOUT IS 75% FULL.

AS CONSTRUCTION PROGRESSES.

WASTES.

TRUCKS.

PROPERLY.

ANCHOR BALES

WITH (2) 2"x2"x4'

STAKES PER BALE

- BALES TO BUTT

3'-0" MIN

SOIL

EMBEDMENT

CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID

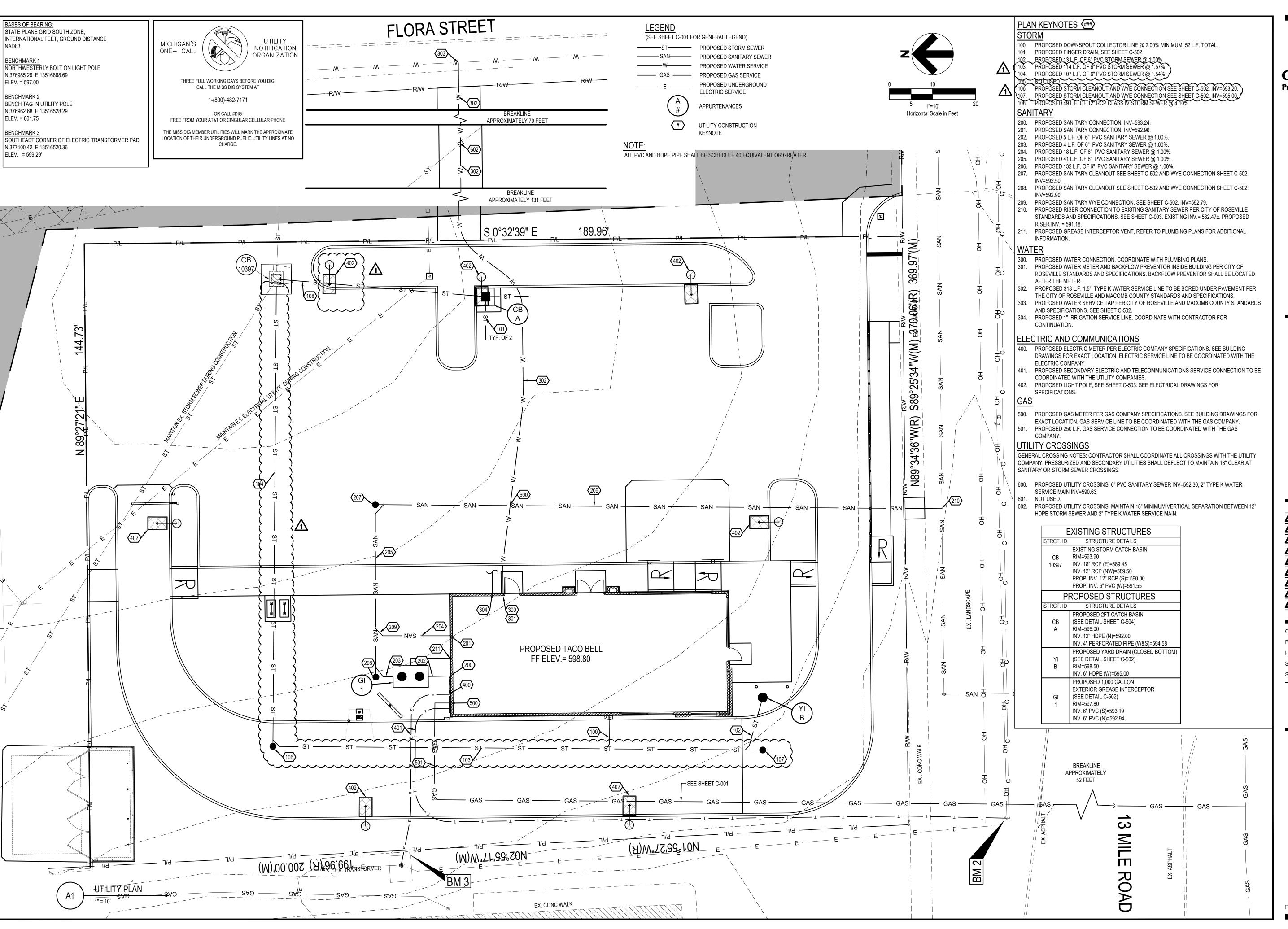
CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY

WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE

WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE

AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF

ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED





520 South Main Street, Suite 2531

330.572.2100 Fax: 330.572.2102

Akron, OH 44311

 ▲ IFC
 05.31.18

 ▲ BULLETIN 1
 05.31.18

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CONTRACT DATE: 01.08.
BUILDING TYPE: T40M
PLAN VERSION: DEC 20
SITE NUMBER: 312262/4428
STORE NUMBER: 2016088.

TACO BELL

20779 13 MILE RD.

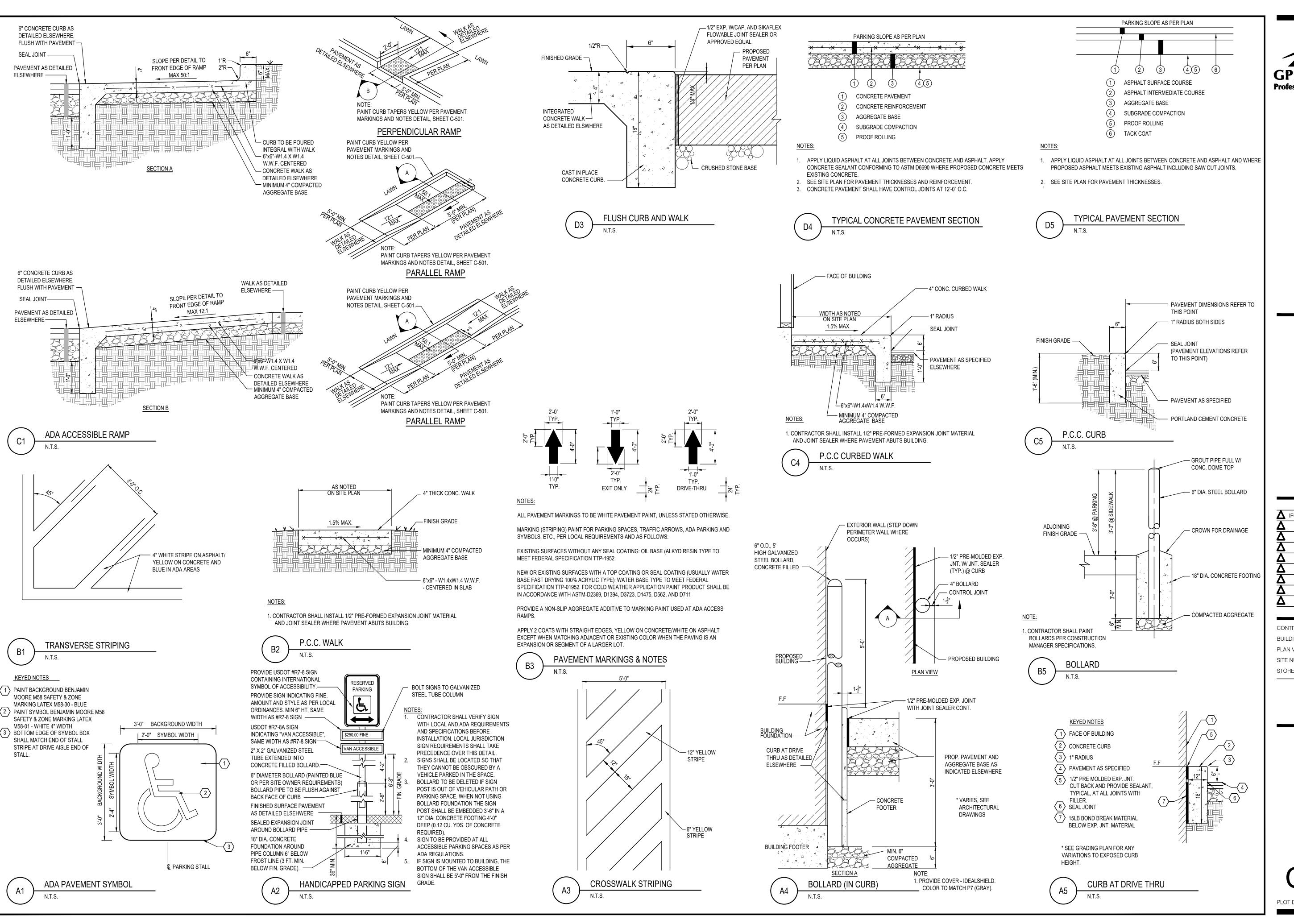
ROSEVILLE, MI



T40
OPEN KITCHEN
MODERN EXPLORER

UTILITY

PLAN C-141



GPD GROUP
Professional Corporation

520 South Main Street, Suite 2531
Akron, OH 44311

330.572.2100 Fax: 330.572.2102

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 IFC
 05.31.18

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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
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TACO BELL

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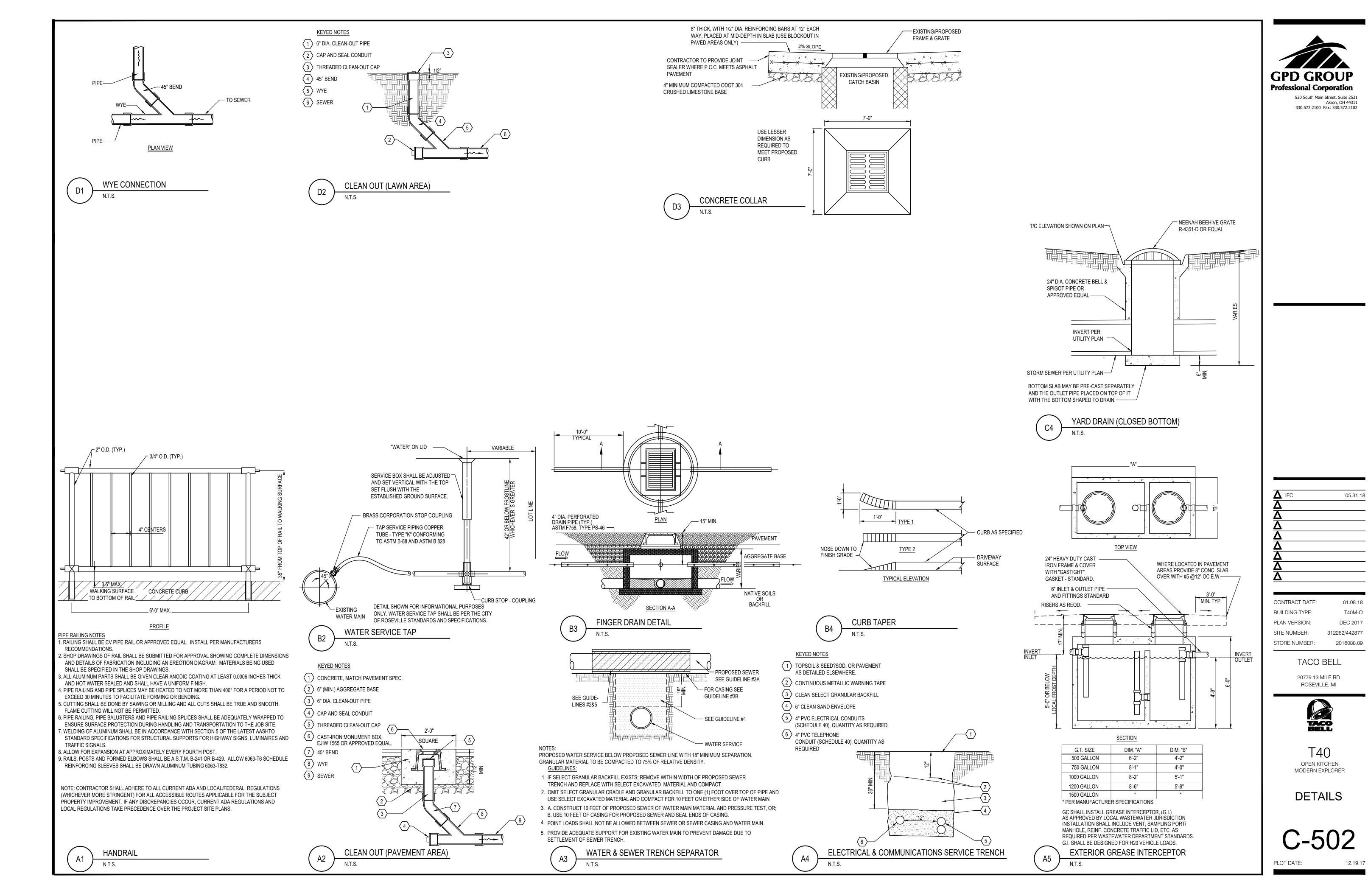
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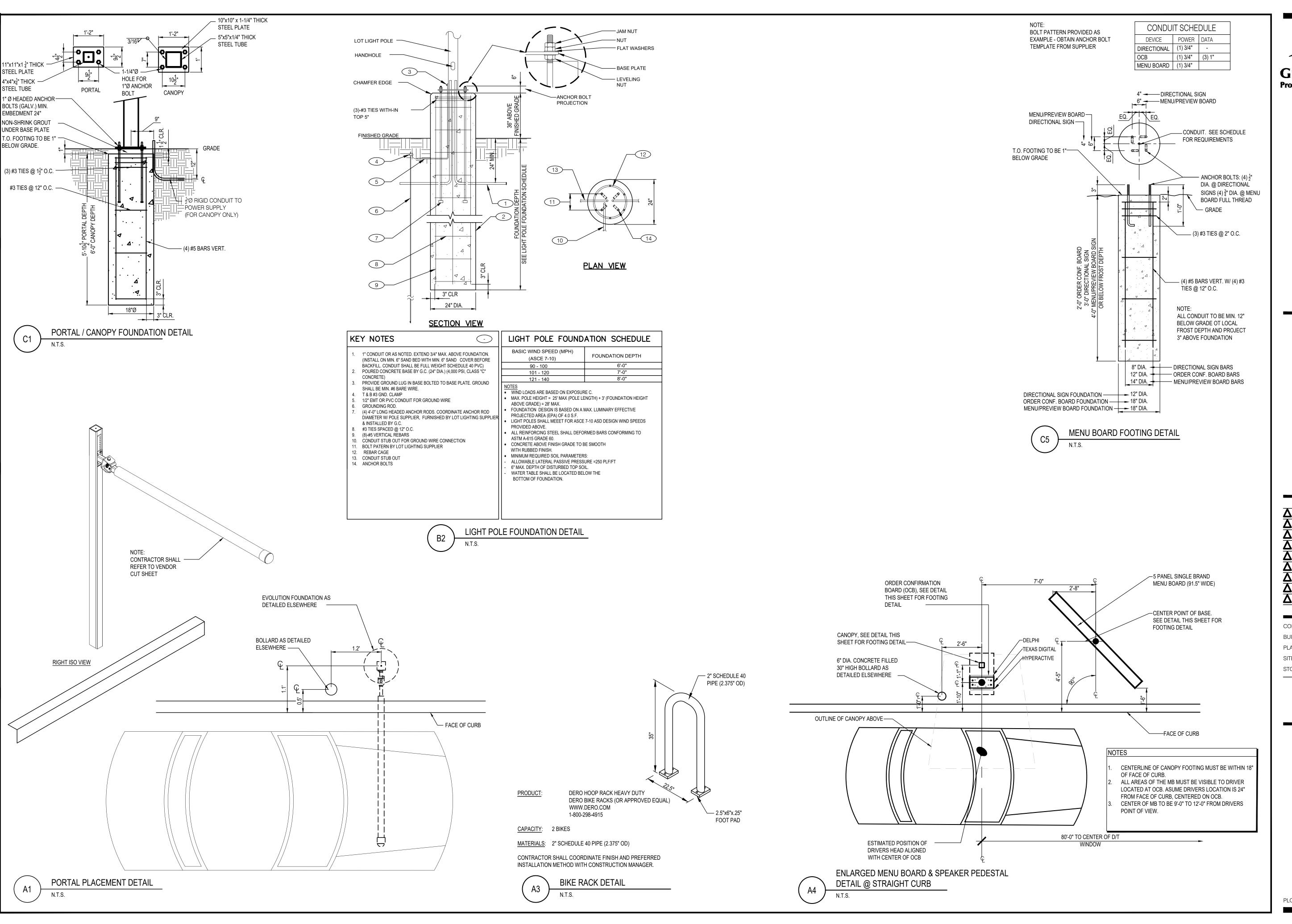
**DETAILS** 

C-501

PLOT DATE:

10.10







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

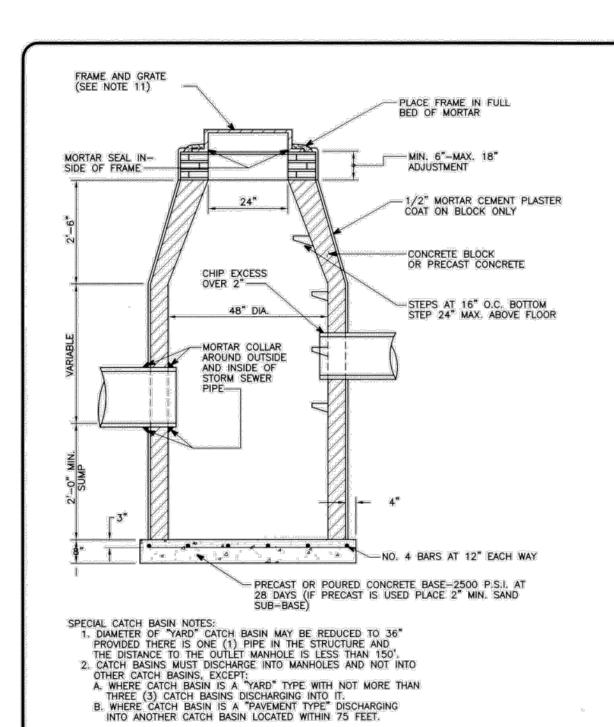
20779 13 MILE RD. ROSEVILLE, MI



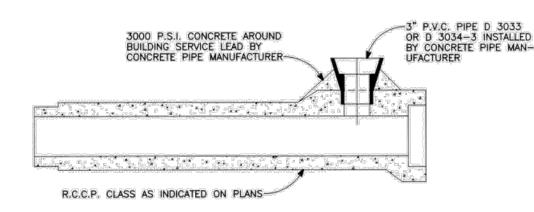
OPEN KITCHEN MODERN EXPLORER

**DETAILS** 

C = 503



## 4 FT. DIAMETER CATCH BASIN

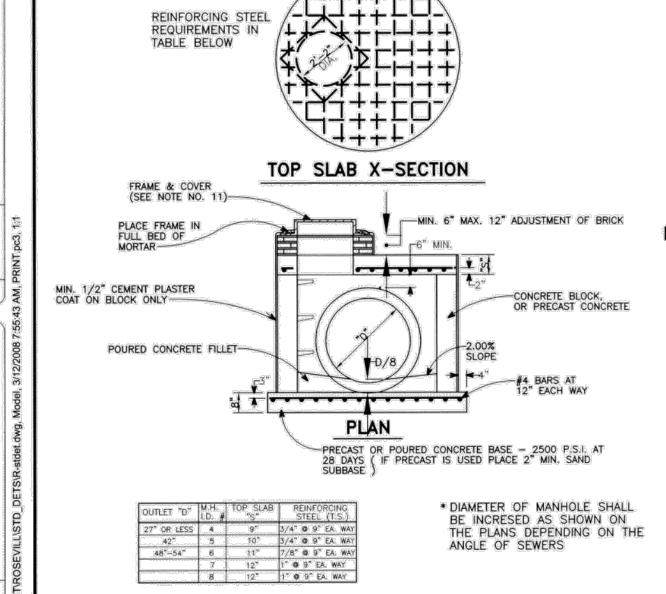


STANDARD WYE DETAIL IN CONCRETE PIPE FOR SUMP PUMP CONNECTION

**BEAISIONS** 

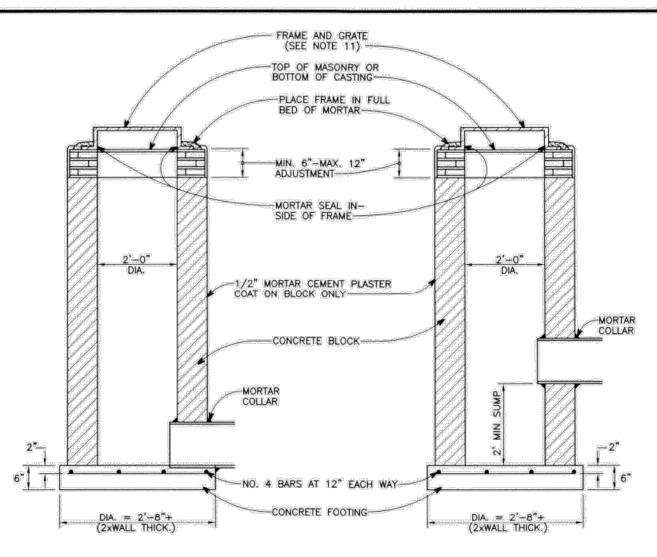
**BEAISIONS** 

**BEAISIONS** 



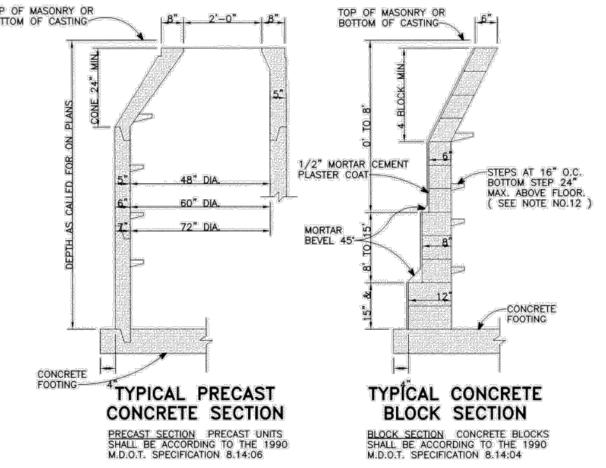
STORM SEWER MANHOLE "A"

WITH FLAT SLAB TOP

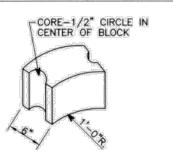


### 2 FT. DIAMETER INLET

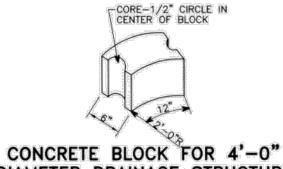
2 FT. DIAMETER CATCH BASIN



### TYPICAL WALL SECTIONS FOR ALL DRAINAGE STRUCTURES



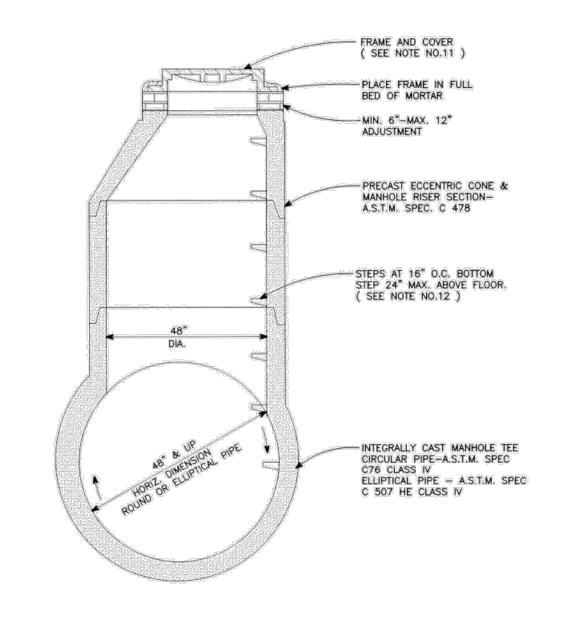
CONCRETE BLOCK FOR 2'-0"



DIAMETER DRAINAGE STRUCTURE DIAMETER DRAINAGE STRUCTURE CONCRETE BLOCKS

# FRAME AND GRATE (SEE NOTE 11) PLACE FRAME IN FULL BED OF MORTAR 1/2" MORTAR CEMENT PLASTER COAT ON BLOCK ONLY CONCRETE BLOCK OF PRECAST CONCRETE STEPS AT 16" O.C. BOTTOM STEP 24" MAX. ABOVE FLOOR ( IF NOT ON PLANS ) SIZE ( I.D. ) M.H. MAY BE INCREASED ON PLANS DEPENDING ON ANGLE OF SEWERS. BOTTOM DIAMETER 💳 NO, 4 BARS AT 12" EACH WAY - PRECAST OR POURED CONCRETE BASE-2500 P.S.I. A 28 DAYS (IF PRECAST IS USED PLACE 2" MIN. SAND SUB-BASE)

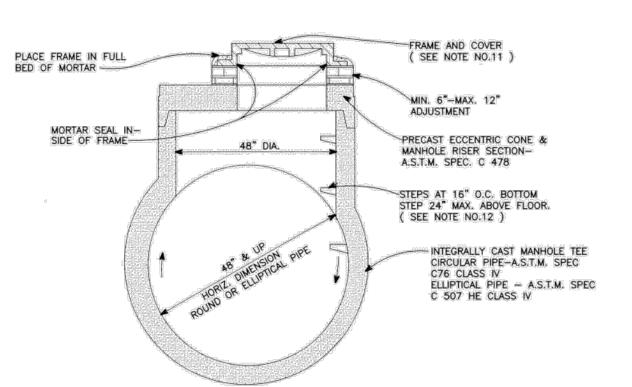
### STORM SEWER MANHOLE



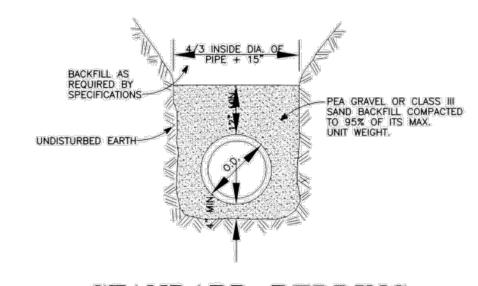
# STORM SEWER TEE MANHOLE "B"

### STORM SEWER NOTES

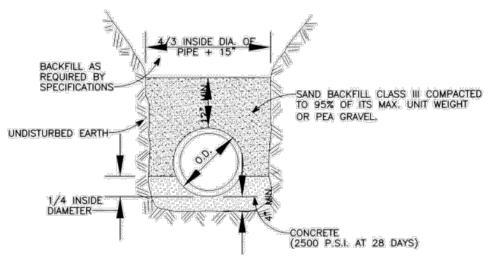
- 1. AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL GIVE NOTIFICATION OF HIS INTENTION TO BEGIN CONSTRUCTION TO THE CITY OF ROSEVILLE ENGINEERING DEPARTMENT, THE MACOMB COUNTY PUBLIC WORKS COMMISSION OR THE ROAD COMMISSION OF MACOMB COUNTY WHEN INSPECTIONS ARE NEEDED BY THAT AGENCY.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST HAVE IN HIS POSSESSION A COPY OF A VALID PERMIT TO CONSTRUCT A CONNECTION TO, OR AN EXTENSION OF, THE STORM WATER DRAINAGE SYSTEM, FROM REQUIRED AGENCY ON THE JOB AT ALL TIMES OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL SECURE PERMITS FROM THE MACOMB COUNTY PUBLIC WORKS COMMISSION, MICHIGAN DEPARTMENT OF TRANSPORTATION OR ANY OTHER AUTHORITY AFFECTED FOR ALL TAPS AND CROSSINGS OF DRAINS OWNED BY THAT AGENCY AND SHALL PAY THE COSTS OF SAID PERMITS AND THE COST OF ANY INSPECTION CHARGES BY THAT AGENCY FOR WORK DONE UNDER THE PERMITS.
- 4. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL TELEPHONE MISS DIG (1-800-482-7171) FOR LOCATION OF UNDERGROUND FACILITIES, AND SHALL ALSO NOTIFY REPRESENTATIVES OF ANY OTHER FACILITIES, LOCATED IN THE VICINITY OF THE WORK, WHICH MAY NOT BE HANDLED BY MISS DIG.
- 5. ALL STORM WATER DRAINAGE SYSTEM CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY, COUNTY ROAD COMMISSION AND/OR COUNTY PUBLIC WORKS COMMISSION AS APPLICABLE.
- 6. ALL SEWER PIPE UNDER PAVED AREAS SHALL BE REINFORCED CONCRETE WHICH CONFORMS TO ASTM SPECIFICATION C76 WITH CLASS DESIGNATION ON PLANS.
- 7. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL STORM SEWER JOINTS SHALL BE TONGUE AND GROOVE WITH RUBBER "O" RING GASKETS.
- 8. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL STORM SEWER BEDDING SHALL BE STANDARD BEDDING.
- 9. ALL WYES AND BUILDING SERVICE CONNECTIONS SHALL BE POLY VINYL CHLORIDE (PVC) SEWER PIPE SCH. 40 OR SDR 23.5.
- 10. ALL STORM SEWER WYE OPENINGS SHALL BE FACTORY INSTALLED EXCEPT WHEN USING ABS TRUSS PIPE FOR SUMP PUMP DISCHARGE OUTLET. WHEREVER POSSIBLE SERVICE CONNECTIONS SHOULD DISCHARGE DIRECTLY INTO A CATCH BASIN.
- 11. UNLESS OTHERWISE NOTED ON THE PLANS, STRUCTURE FRAME AND COVERS SHALL BE AS FOLLOWS:
  - E.J.I.W. 1040 FRAME, TYPE B, PERFORATED COVER.
- CATCH BASIN OR INLET (PAVEMENT TYPE)
- E.J.I.W. 5105 OR NEENAH R-3036 WITH SINUSOIDAL GRATE (MDSH COVER D4)
- CATCH BASIN (YARD TYPE) E.J.I.W. 1045 OR NEENAH R-2579 WITH OVAL GRATE HAVING A RISE ABOVE THE FRAME OF 2 1/2".
- 12. STEPS TO BE INSTALLED DURING MANUFACTURING OF MANHOLE SECTION. STEPS MUST BE E.J.I.W. NO. 8503 M.A. INDUSTRIES P.S.I. POLYPROPYLENE OR APPROVED EQUAL.
- 13. UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER, EACH STRUCTURE SHALL BE CONSTRUCTED TOTALLY OF EITHER PRE-CAST CONCRETE SEGMENTS OR BUILT-UP MORTAR & BLOCK. , PRIVATE DEVELOPMENTS
- 14. BEFORE FINAL ACCEPTANCE, A FINAL INSPECTION MUST BE MADE BY THE OWNER AND (1) SET OF AS-BUILT PRINTS AND (1) SET OF AS-BUILT ELECTRONIC DRAWINGS IN 24"x36" PDF FORMAT SHALL BE SUBMITTED TO THE CITY OF ROSEVILLE ENGINEERING DEPARTMENT.



STORM SEWER TEE MANHOLE "B" WITH FLAT SLAB

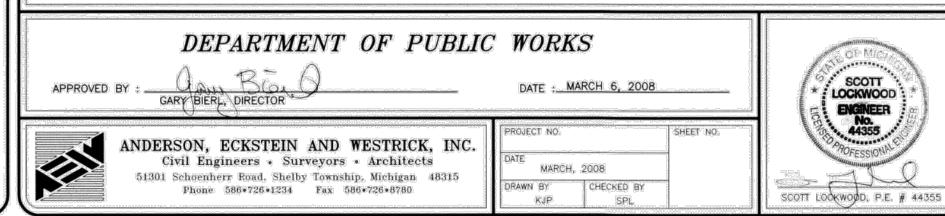


STANDARD BEDDING



CONCRETE BEDDING

### CITYOFROSEVILLE STORM**DETAILS** SEWER



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

05.31.18

**CONTRACT DATE BUILDING TYPE** DEC 2017 PLAN VERSION: SITE NUMBER: 2016088.09 STORE NUMBER:

> TACO BELL 20779 13 MILE RD.

> > ROSEVILLE, MI



T40 OPEN KITCHEN MODERN EXPLORER CITY STORM SEWER DETAILS

C-504

### Landscape Notes & Planting Specifications

### Scope Of Work

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

### Preservation/Protection (If Applicable)

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

### **Plant Materials**

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

### Topsoil

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

### Soil Conditioning

- Obtain laboratory analysis of stockpiled and imported topsoil complete with recommendations for soil amendment.
- 2. Before mixing, clean topsoil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful or toxic to plant growth.
- 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.
- 5. 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

- 1. 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.
- 2. Mulch:
  - a. 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.
  - b. Non-dryed, double shredded hardwood mulch shall be installed in all other landscape beds outside of the river rock mulch area, at a minimum 2" depth.
- 3. Weed barrier polyethylene filter fabric designed to permit water infiltration while preventing weed growth-to be installed in all planting beds.

### General Work Procedures

- 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.
- 2. Contractor shall obtain a copy of local ordinances regarding acceptable plant and planting details and abide by those ordinances and details.
- 3. Engineer reserves the right to reject all plant material deemed not acceptable.
- 4. Any proposed plant substitutions shall be equivalent in form, habit, structure, branching and leaf type and must be issued to the landscape architect for approval, in writing, prior to installation.

### Weeding

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

### Planting

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

### Finish Grading

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

### **Ground Cover**

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

### Guarantee

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

### Irrigation

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

### Cleanup

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

### Maintenance

(maintenance period to commence after final inspection.)

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

### Seeding

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

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

### Sodding

1. Sod shall be first grade certified Kentucky Bluegrass blend containing not more than 30 percent of other grasses and clovers, and free from all noxious weeds. Sod shall be recently mowed to a height of not less than 3 inches. It shall be cut into strips of not less than 3 feet and not over 6 ft. With a uniform width of not over 24 inches. The sod shall be cut to a depth equal to the growth of the fibrous roots but in no case less than 1 inch. Sod shall be delivered to the job within 24 hours after being cut and shall be installed within 48 hours after being cut. Before sod is placed, the sod bed will have been excavated to such a depth that when the sod is in place the top of the sod will be flush with the surrounding grade. No sod shall be placed when the temperature is below 32 degrees f. No frozen sod shall be placed nor shall any sod be placed on frozen soil. 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

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

Normal planting seasons	Spring	Fall
all trees and shrubs	march 15-may 15	october 1-december 1
evergreens	april 1-may 15	october 1-november 15
groundcovers	april 1-june1	when sod is workable
seed and mulch	april 1-may 15	october 1-november 15

### General Note

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



330.572.2100 Fax: 330.572.2102

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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.

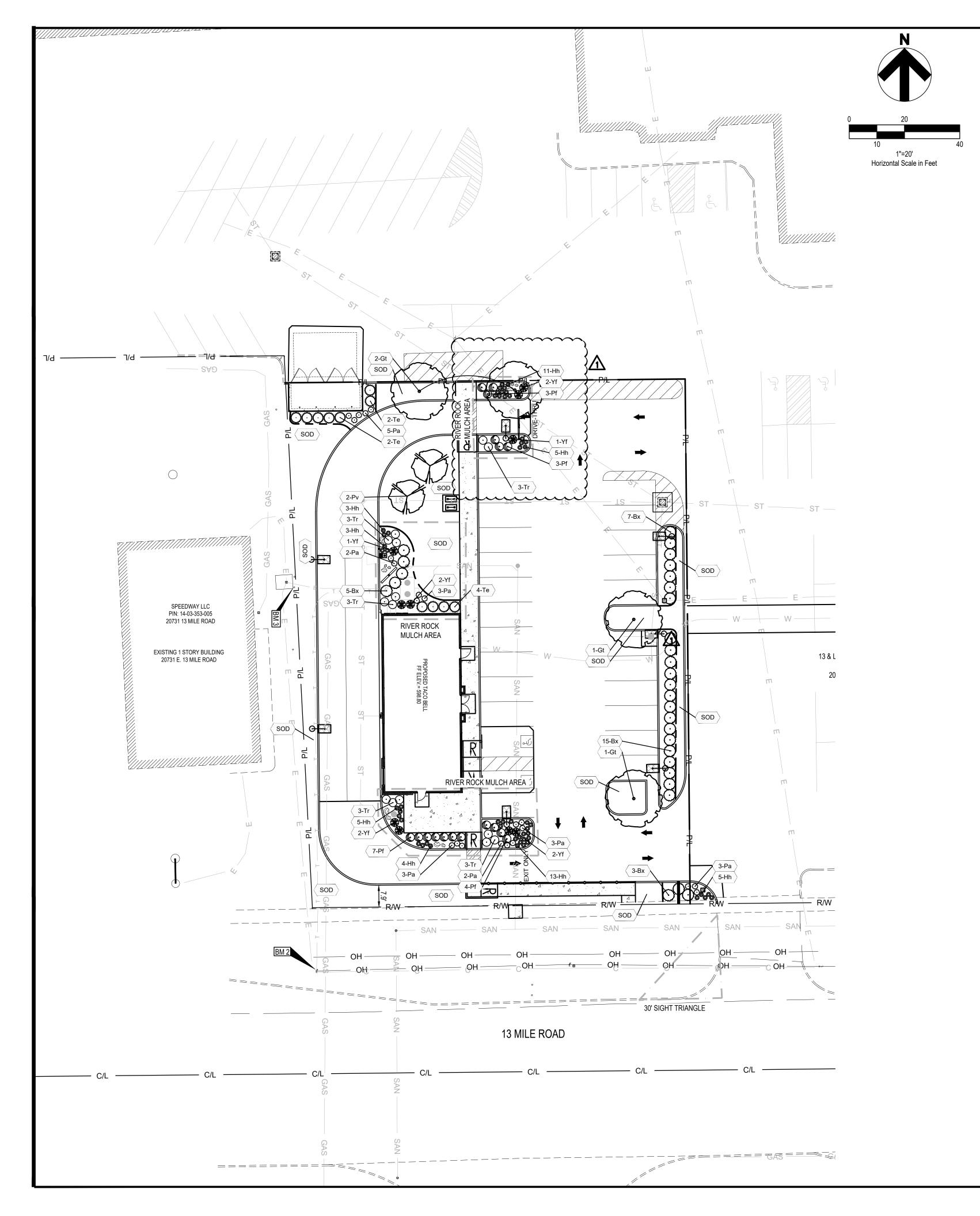
ROSEVILLE, MI

T40
OPEN KITCHEN
MODERN EXPLORER

LANDSCAPING NOTES

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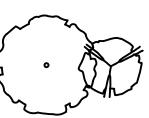
### LANDSCAPE NOTES

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



LANDSCAPE LEGEND

PROPOSED LANDSCAPE BED EDGE



PROPOSED TREE

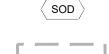
PROPOSED SHRUB



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
Вх	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	l Cont.	3' o/c
Pv	Prunus virginiana 'Canada Red'	Canada Red Chokecherry	2	1.5" Cal.	B&B	Matching
Те	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	l Cont.	Per Plan
Yf	Yucca flaccida	Adam's Needle	10	No. 3	Cont.	Per Plan

### I ANDSCAPE CAI CULATION. BY SQ FOOTAGE

L/	ANDOCAPE CALCULATION, DI OQ FOOTAN				
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

RE	REQUIRED: 10 SQ FT PER OFF STREET PARKING SPACE				
	25 OFF STREET PARKING SPACES X 10 = 50 SQ FT REQUIRED LANDSCAPE AREA				
PR	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

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

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

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



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.

OPEN KITCHEN MODERN EXPLORER

TACO BELL

20779 13 MILE RD. ROSEVILLE, MI

05.31.18

T40M-O

DEC 2017

2016088.09

05.31.18

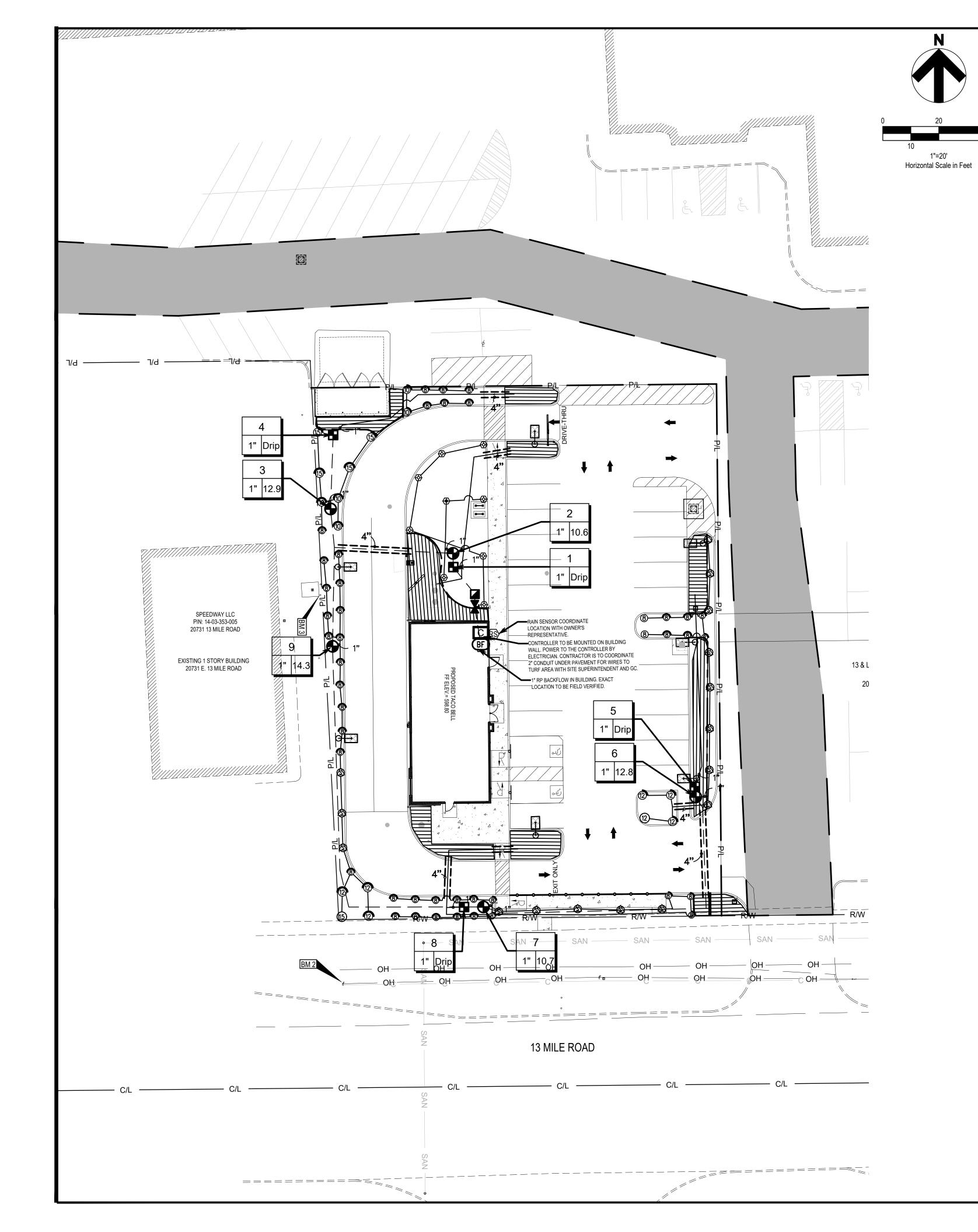
⚠ BULLETIN 1

CONTRACT DATE:

**BUILDING TYPE:** 

PLAN VERSION: SITE NUMBER: STORE NUMBER:

LANDSCAPE PLAN



### **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. THROTTLE 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**

MANUFACTURER/MODEL <u>SYMBOL</u> 88888 Toro 570Z-4P-COM 8 Series 0Toro 570Z-4P-COM 10 Series **@@@@@@** Toro 570Z-4P-COM 12 Series 666666 Toro 570Z-4P-COM 15 Series Toro 570Z-4P-COM ADJ

♦ ♦ ADJ. 360

Toro PRN-TA, TF 570Z-4P-COM ADJ

Toro 570Z-4P-COM Turf Strip Spray

<u>SYMBOL</u>

MANUFACTURER/MODEL

Toro DZK-TPV-I-MF

Area to Receive Dripline Toro RGP-418 (18)

Toro TPV-F-100

<u>SYMBOL</u>

MANUFACTURER/MODEL

Toro 100-SLVLC Nibco TI-8 Zurn 375 |"

Toro EVO-040D with (02) EMOD-04

Toro EVO-WS Irrigation Lateral Line: PVC Class 200 SDR 21

Irrigation Mainline: PVC Class 200 SDR 21

Pipe Sleeve: PVC Schedule 40



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

N 376985.29, E 13516868.69 ELEV. = 597.00'

NORTHWESTERLY BOLT ON LIGHT POLE

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

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

MICHIGAN'S ONE- CALL ORGANIZATION

> THREE FULL WORKING DAYS BEFORE YOU DIG, CALL THE MISS DIG SYSTEM AT

UTILITY

NOTIFICATION

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.





330.572.2100 Fax: 330.572.2102

Irrigation Design & Consulting

Tel: (844) 231-7042 Columbus, OH . Louisville, KY Pittsburgh, PA

www.wc3design.com



05.31.18

CONTRACT DATE: T40M-O **BUILDING TYPE:** PLAN VERSION: DEC 2017 SITE NUMBER: STORE NUMBER: 2016088.09

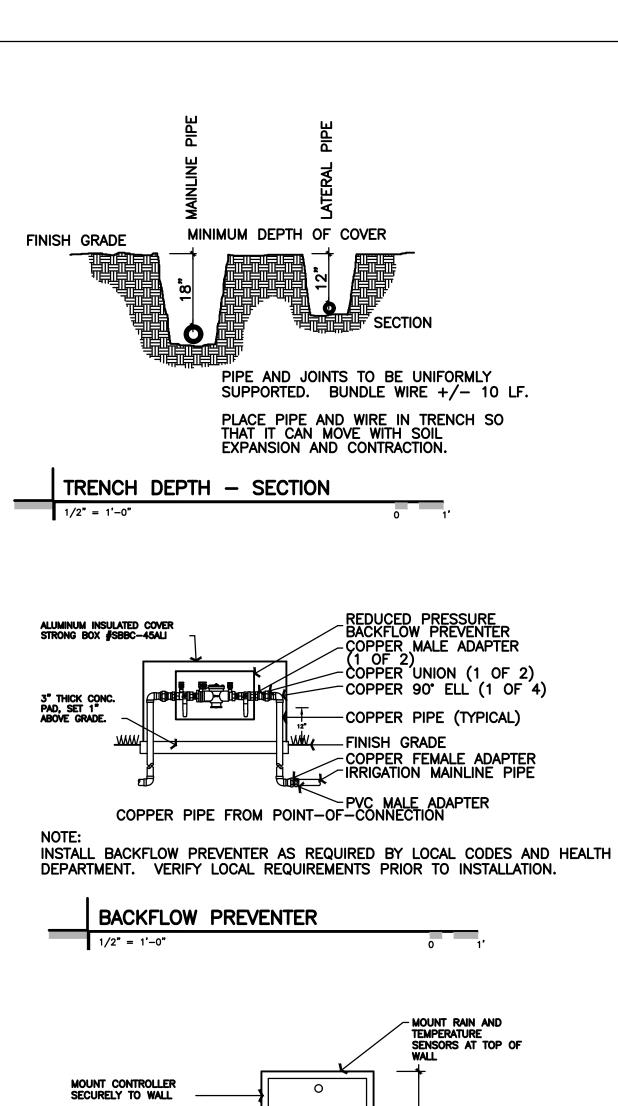
TACO BELL

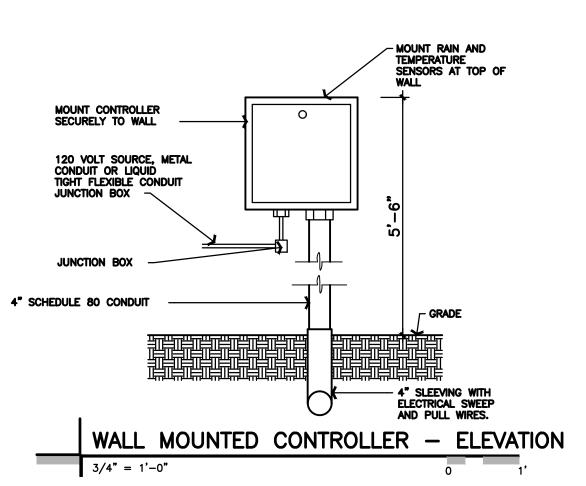
20779 13 MILE RD. ROSEVILLE, MI

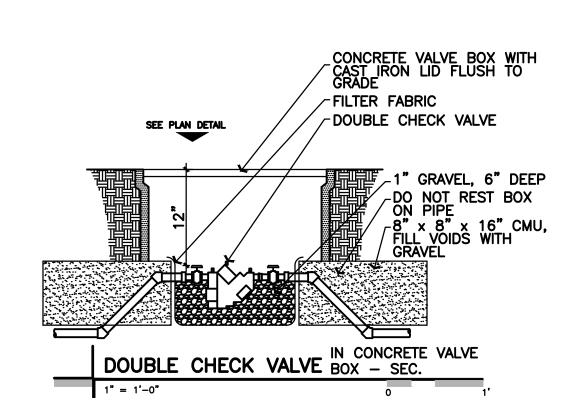


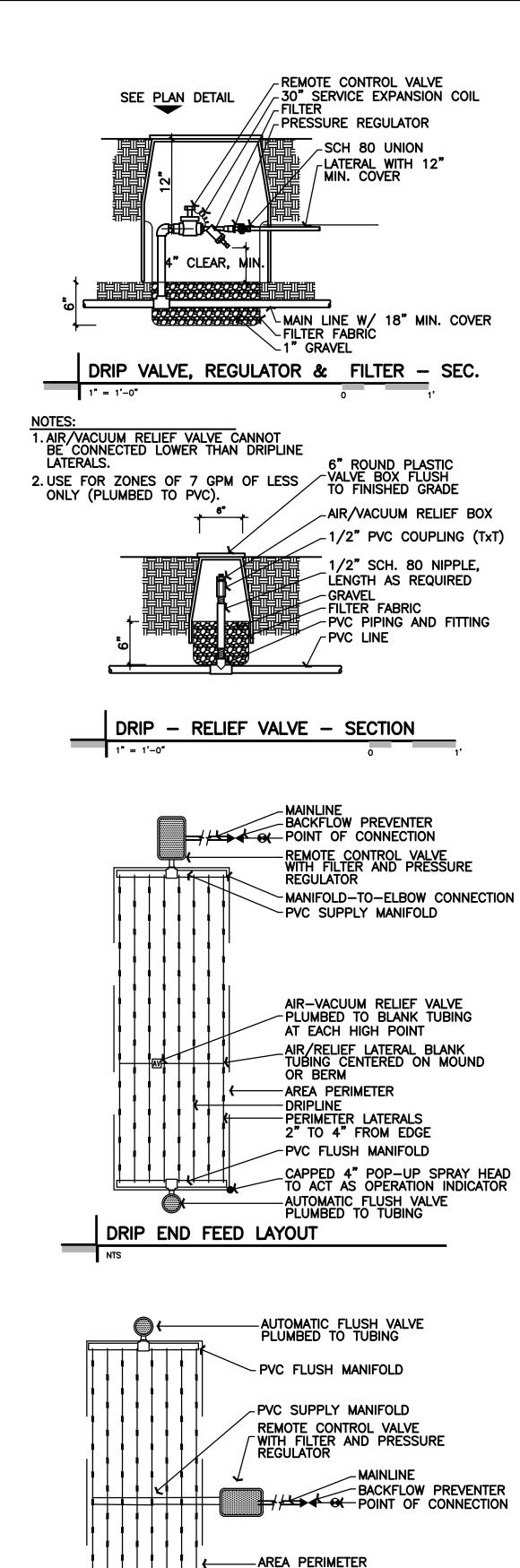
OPEN KITCHEN MODERN EXPLORER

**IRRIGATION PLAN** 









- DRIPLINE

DRIP CENTER FEED LAYOUT

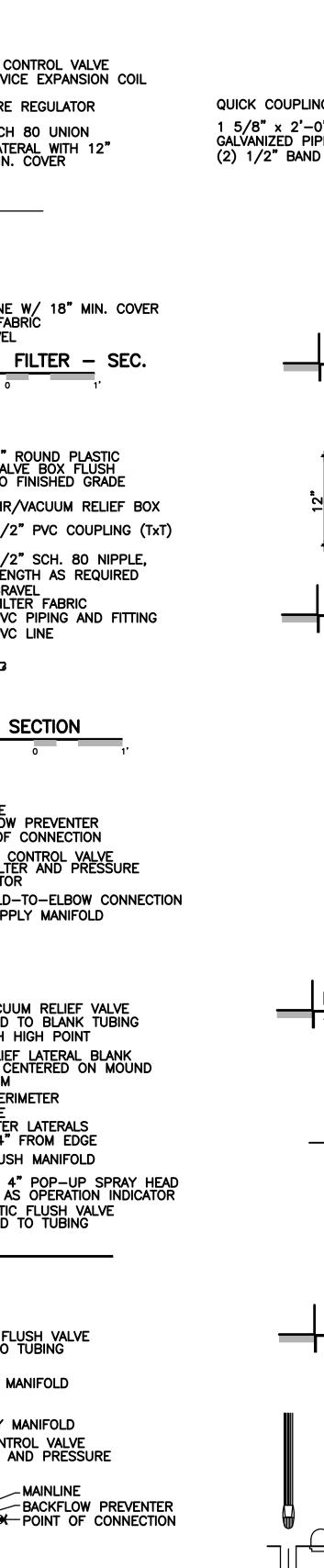
PERIMETER LATERALS 2" TO 4" FROM EDGE

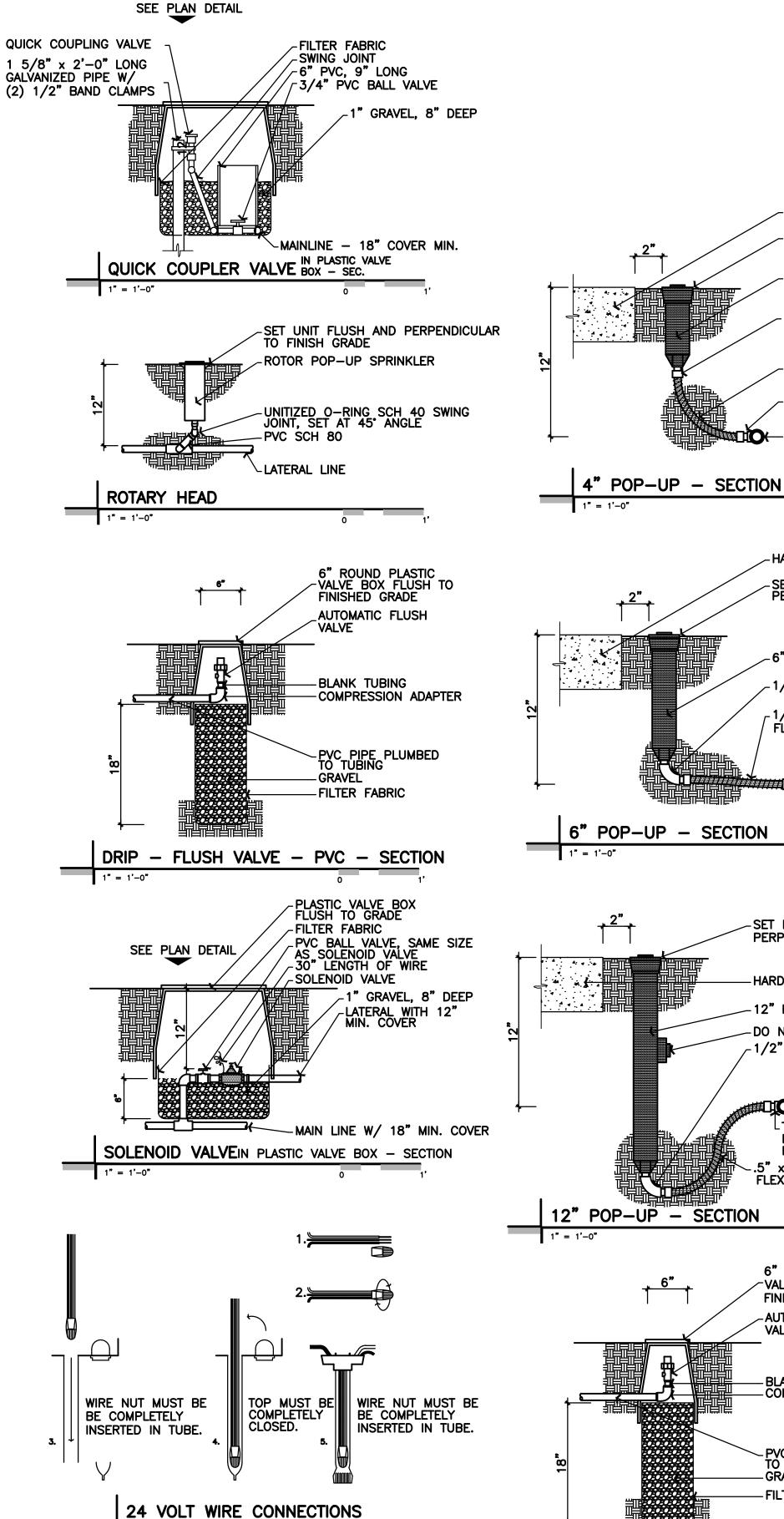
PVC FLUSH MANIFOLD

- AUTOMATIC FLUSH VALVE PLUMBED TO TUBING

CAPPED 4" POP-UP SPRAY HEAD

TO ACT AS OPERATION INDICATOR







330.572.2100 Fax: 330.572.2102

Irrigation Design & Consulting www.wc3design.com Tel: (844) 231-7042

Columbus, OH . Louisville, KY Pittsburgh, PA

- HARDSCAPE IF APPLICABLE

-SET HEAD FLUSH AND PERPENDICULAR TO GRADE

-1/2" PVC SOCKET x MIP

4" POP-UP SPRAY SPINKLER

-1/2" x 12" MINIMUM COBRA FLEXIBLE TUBING

-T x 1/2" FEMALE THREADED HORIZONTAL OUTLET

-LATERAL LINE SET AT MINIMUM DEPTH]

HARDSCAPE IF APPLICABLE

SET HEAD FLUSH AND PERPENDICULAR TO GRADE

-6" POP-UP SPRAY SPINKLER

 $_{-}1/2$ " PVC 90 SOCKET x MIP

1/2" x 12" MINIMUM COBRA

LATERAL LINE SET

AT MINIMUM DEPTH

FLEXIBLE TUBING

FEMALE THREADED HORIZONTAL OUTLET

-SET HEAD FLUSH AND

PERPENDICULAR TO GRADE

- HARDSCAPE IF APPLICABLE

\_1/2" PVC 90 SOCKET x MIP

LT x 1/2"
FEMALE THREADED

5" x 12" MIN. COBRA FLEXIBLE TUBING

6" ROUND PLASTIC

AUTOMATIC FLUSH

VALVE

- GRAVEL

- FLUSH VALVE - TUBING - SECTION

-FILTER FABRIC

-VALVE BOX FLUSH TO FINISHED GRADE

BLANK TUBING COMPRESSION ELBOW

-PVC PIPE PLUMBED TO TUBING

HORIZONTAL OUTLET

\_DO NOT USE SIDE INLET

-12" POP-UP SPRAY SPRINKLER

-LATERAL LINE SET AT MINIMUM DEPTH



05.31.18

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

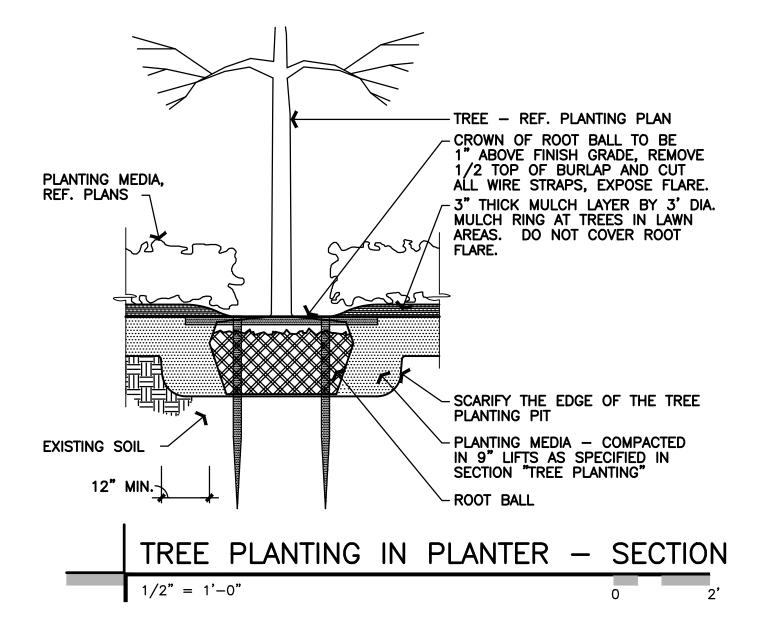
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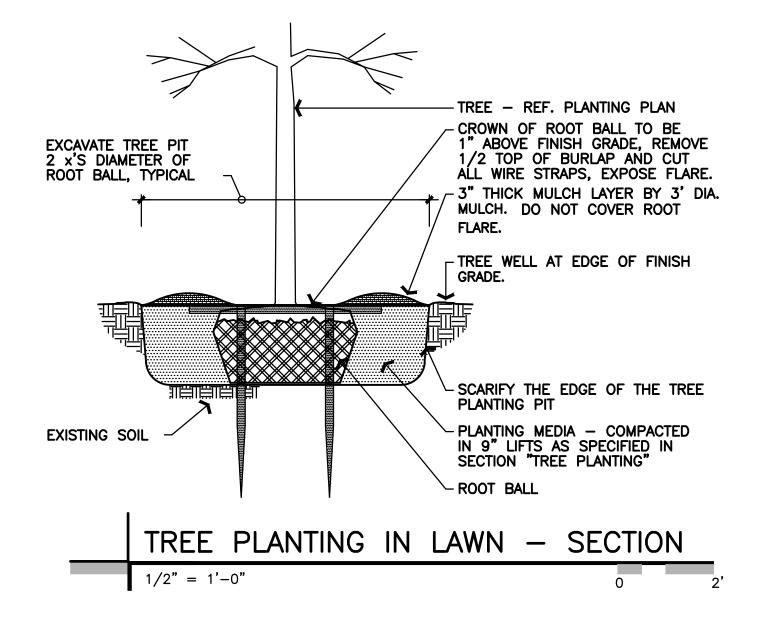


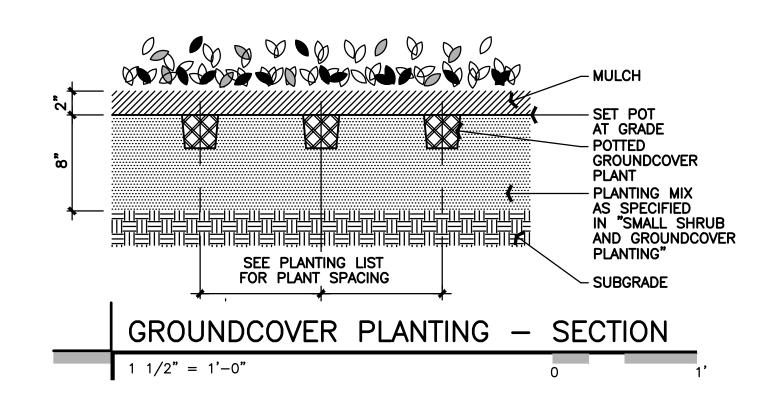
ROSEVILLE, MI

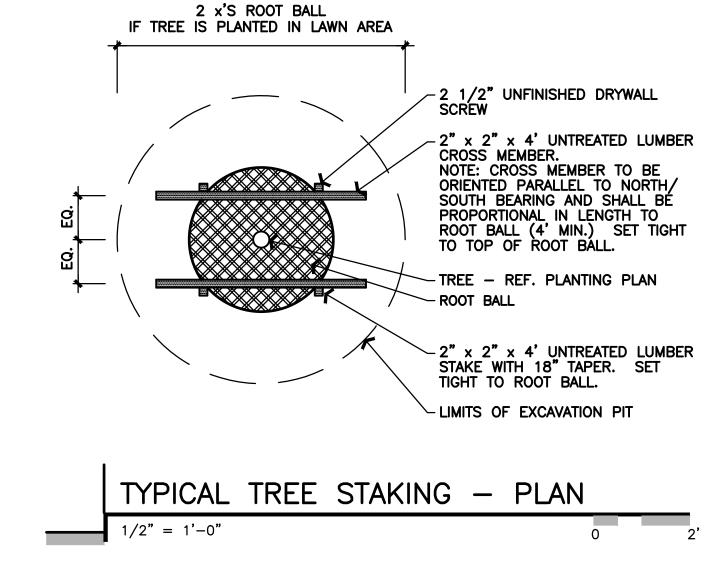
T40 OPEN KITCHEN MODERN EXPLORER

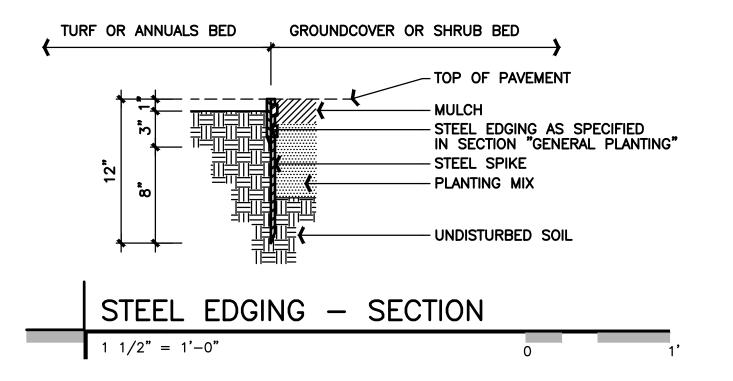
**IRRIGATION DETAILS** 

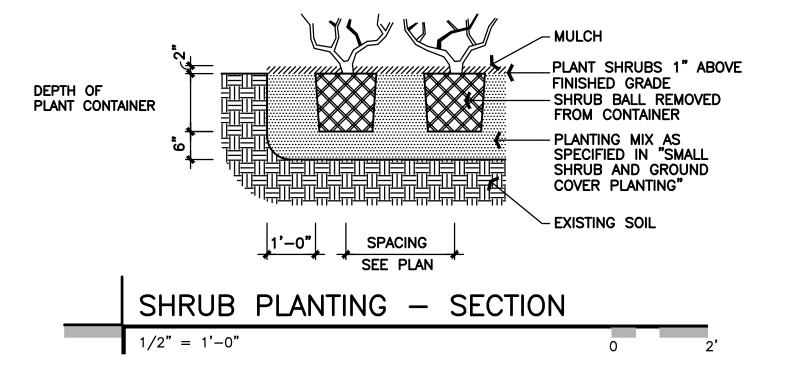














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CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
SITE NUMBER: 312262/442877
STORE NUMBER: 2016088.09

TACO BELL 20779 13 MILE RD.



ROSEVILLE, MI

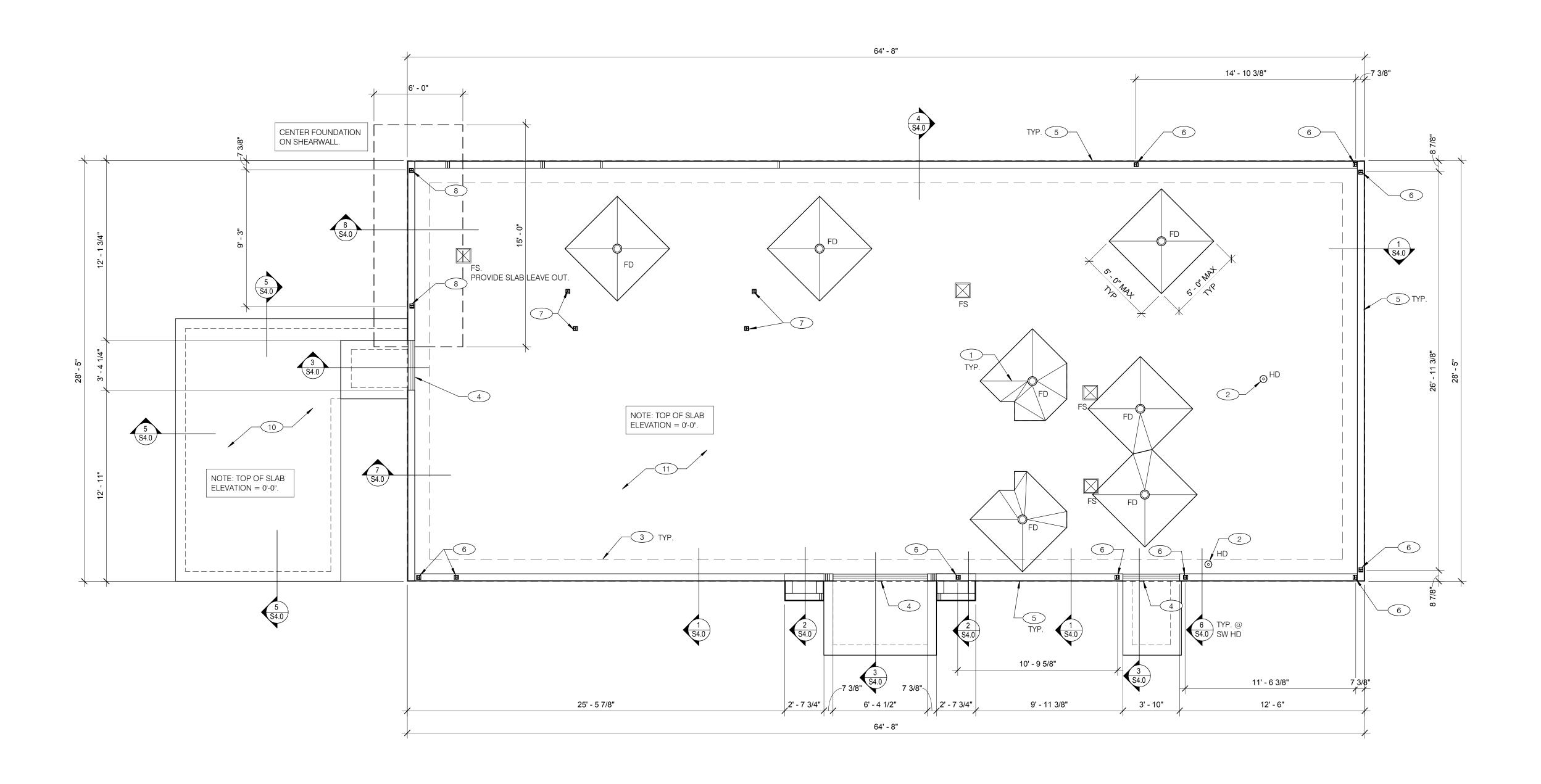
T40
OPEN KITCHEN
MODERN EXPLORER

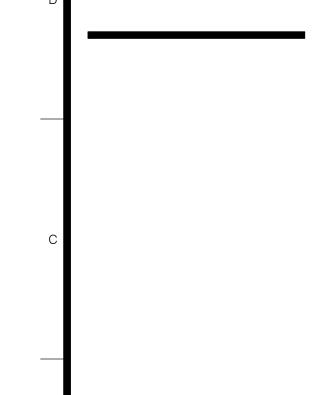
LANDSCAPING DETAILS

L-501

PLOT DATE:

12.19.





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

02.16.18 ISSUED FOR PERMIT

CONTRACT DATE: 01.08.17 T40M-O **BUILDING TYPE:** PLAN VERSION: DEC 2017 BRAND DESIGNER:

312262/442877 SITE NUMBER: STORE NUMBER: 2016088.09

TACO BELL

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



MODERN EXPLORER

**FOUNDATION PLAN** 

**DESIGN CRITERIA:** SEISMIC LOADS: RISK CATEGORY: 2015 MICHIGAN BUILDING CODE 2015 INTERNATIONAL BUILDING CODE SEISMIC IMPORTANCE FACTOR: 1.0 SITE CLASS: GROUND SNOW LOAD (Pg): 25 PSF MAPPED SPECTRAL RESPONSE ACCEL: EXPOSURE FACTOR (Ce): 1.0 IMPORTANCE FACTOR (I): 1.0 0.046 THERMAL FACTOR (Ct): FLAT ROOF SNOW LOAD (Pf): SPECTRAL RESPONSE COEFF.: 20 PSF SHORT PERIODS (SDS): 0.097 ROOF LOADS: LIVE LOAD: 1 SEC. PERIODS (SD1): 0.073 SEISMIC DESIGN CATEGORY: DEAD LOAD: 20 PSF WOOD SHEAR WALLS RESPONSE MOD. FACTOR (R): 6.5 RISK CATEGORY: 3 SECOND GUST (ULTIMATE): 115 MPH DESIGN BASE SHEAR (V): IMPORTANCE FACTOR: 1.0 EXPOSURE CATEGORY (MWFRS): B ANALYSIS BY SIMPLIFIED PROCEDURE INTERNAL PRESSURE COEFF.: +/- 0.18

PROVIDE SHOP DRAWINGS AND CALCULATIONS PREPARED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF MICHIGAN FOR SIGNS AND ROOF TRUSSES.

**DESIGN CRITERIA** 

### **FOUNDATION**

D

. FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERING REPORT BY

INTERTEK-PSI DATED AUGUST 24, 2017. PROJECT NO. 03811021. 2. CONTRACTOR TO PROVIDE FOUNDATION & FOOTING AS REQUIRED FOR PYLON OR

MONUMENTAL SIGN. SEE ELECTRICAL DRAWINGS FOR DETAIL. COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF GEOTECHNICAL REPORT. <u>FOUNDATION DESIGN IS BASED ON 2,500 PSF ALLOWABLE BEARING CAPACITY AFTER REMOVAL OF UNDOCUMENTED FILL PER THE GEOTECHNICAL REPORT.</u>

CONTRACTOR SHALL TREAT SOIL BELOW SLAB FOR TERMITES. REFER TO THE GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS OF EARTHWORK, OVEREXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING

AND OTHER PERTINENT REQUIREMENTS AND INFORMATION. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS AND GRADE BEAMS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS OR THROUGH THE GRADE BEAMS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS AND GRADE BEAMS. LOWER FOOTINGS AND GRADE BEAMS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO

ADJACENT TRENCH EXCAVATIONS. MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED. 8. ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY

COMPACTION AND APPROVE FOOTING SUBGRADES PRIOR TO PLACING CONCRETE. 9. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER,

10. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE

### CONCRETE:

A. CONCRETE SHALL BE HARD ROCK CONCRETE (5 SACK CEMENT PER CU.YD. MIN.) AND MEET THE

FOLLOWING MIN. ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS: MIN. STRENGTH AGGREGATE SLUMP <u>INCHES</u> 3-1/2" <u>SIZE - INCHES</u> SLAB ON GRADE (4000 DESIGN) 1" x #4 ±1/2"

(4000 DESIGN) 1" x #4 CONCRETE MIX DESIGN AND TESTING SHALL MEET WITH THESE SPECS. CEMENT SHALL BE IN ACCORDANCE WITH ASTM C 150 TYPE II. VERIFY MIN. CONCRETE STRENGTH AND CEMENT TYPE. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. STEEL SHALL BE KEPT CLEAN

AND FREE OF RUST. CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI-318-14.

AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY COMMITTEE 308. ANCHOR BOLTS - A36 OR A307, USE 5/8" DIAMETER x 12" ANCHOR BOLTS (A.B.) AT 48" O.C. U.O.N.

ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. ALL WWF SHALL CONFORM TO ASTM 1064.

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

B. PROVIDE CONTROL JOINTS AS FOLLOWS: 1/8"x T/4 DEEP SAWCUTS @ 12'-0" O.C. SQ. MAX. w/ AN ASPECT RATIO OF NO MORE THAN 2:1.

### MISCELLANEOUS:

A. DIMENSIONS NOTED ARE TO FACE OF CONCRETE. REFER TO DWG. A1.0 FOR

DIMENSIONS TO FACE OF STUD AND OTHER DIMENSIONS NOT OTHERWISE NOTED. B. DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED

AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. C. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER

SIMILAR CONDITIONS.

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

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

FLOOR DRAINS LOCATED 1/2" BELOW T.O. SLAB. SLOPE SLAB AS INDICATED ON PLAN TO PROVIDE POSITIVE DRAINAGE.

PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS). PROVIDE SLEEVE IN CONCRETE AT THESE AND HOSE BIB LOCATIONS. COORDINATE

INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0. BOTTOM OF FOOTING (B.O.F.) ELEVATION = -3'-6" BELOW FINISHED EXTERIOR GRADE (MIN. FOR FROST PROTECTION). ALL TOP OF FOOTING (T.O.F) ELEVATIONS = -0-8".

DEPRESSED FOUNDATION WALL AT THRESHOLD. SEE 3/S4.0.

LOCATIONS WITH ARCHITECTURAL.

ANCHOR BOLTS LOCATED THROUGHOUT PERIMETER OF BUILDING SHALL BE PROVIDED AS REQUIRED PER THE "PLATE/ANCHOR BOLT" COLUMN OF THE "WALL SHEATHING AND

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

HDU4 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.

DTT2Z-SDS2.5 ANCHOR FOR SUPPORT OF HALF WALL.

SHEARWALL SCHEDULE." SEE D/S2.0.

HD19 HOLDOWN ANCHOR AT EACH END OF INTERIOR SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.

HSS6x6 CANOPY POST & 24" DIA. DRILLED PIER BY MANUFACTURER.

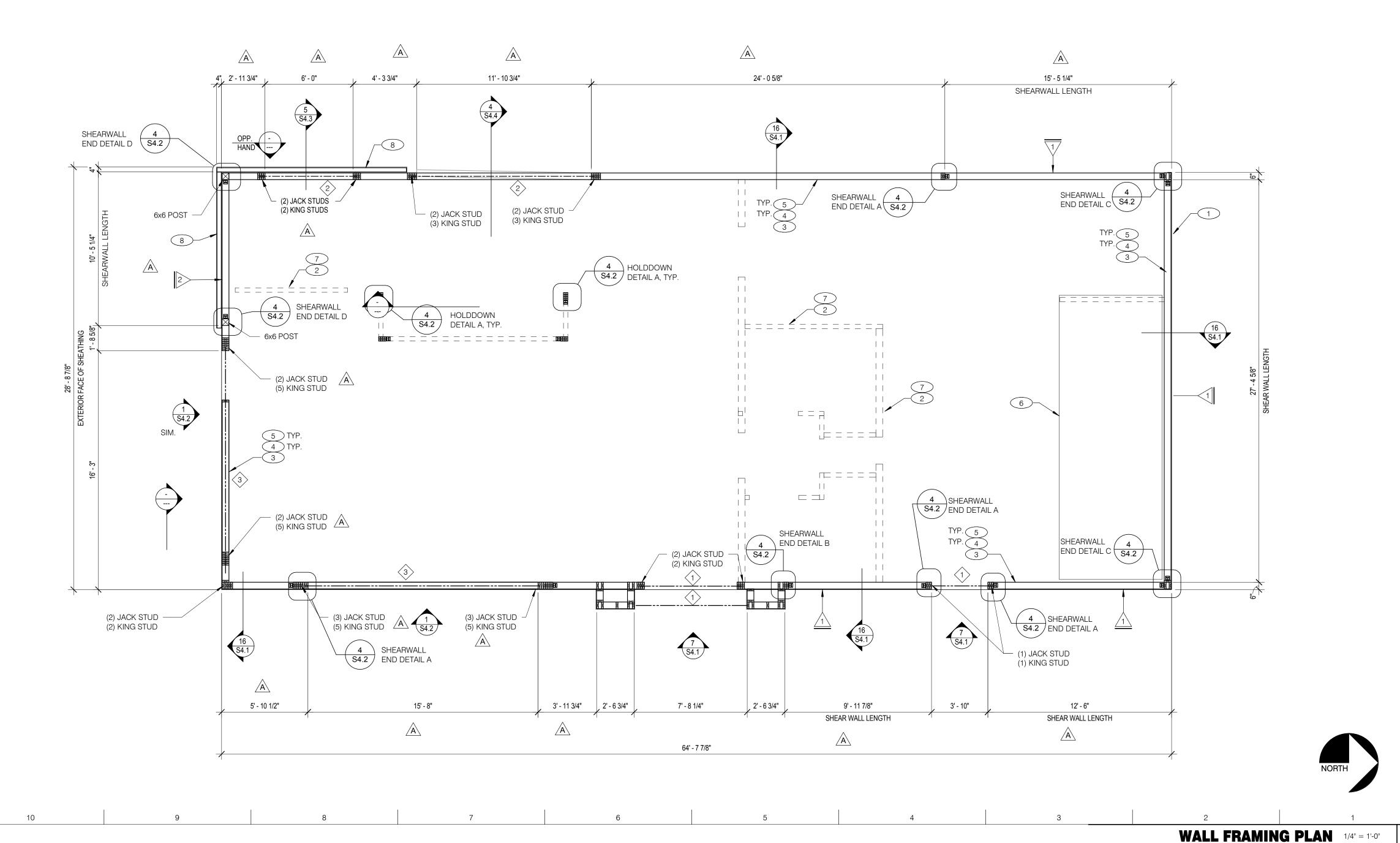
4" EXTERIOR CONCRETE SLAB REINFORCED W/ WWF 6x6-W1.4x1.4 OVER 4" AGGREGATE

4" CONCRETE SLAB PER SLAB NOTES THIS SHEET.

**FOUNDATION PLAN NOTES** 

**KEY NOTES** 





MARK BUILT-UP MANUF. **STEEL BEAM** SECTION **MEMBER** (3) 2x10 5 1/4x11 7/8 2.0E PSL 5 1/4x18 2.0E PSL

NOTE: DIMENSIONS SHOWN

**NOT USED** 

ARE FROM EXTERIOR FACE OF WALL SHEATHING.

NOTES:

- 1. BUILT-UP HEADER SECTION SHALL HAVE 1/2" PLYWOOD SANDWICHED BETWEEN THE PLYS OFF WOOD. REF 8/S4.1.
- 2. PSL BEAMS TO HAVE FOLLOWING MIN. PROPERTIES: Fb=2900 PSI
- Fcperp=750 PSI Fy=290 PSI E=2000 KSI
- 3. ALL HEADERS SHALL HAVE TWO JAMB STUDS AND TWO

HEADER/BEAM SCHEDULE E

FULL HEIGHT KING STUDS AT BEARING, U.N.O. 4. SEE STRUCTURAL STEEL NOTES FOR ADDITIONAL

INFORMATION

EDGE **FIELD** PLATE / ANCHOR ROD SW SHEATHING **REMARKS** 1/2" PLYWD (32/16), PS1 RATING 5/8" DIA. A307 (12" HEADED) @ 32" O.C. W/ WASHER PLYWOOD ON EXTERIOR FACE OF STUDS 10d @ 6" O.C. 10d @ 12" O.C. 2> 1/2" PLYWD (32/16), PS1 RATING 10d @ 4" O.C. 10d @ 12" O.C. 5/8" DIA. F1554, (12" HEADED) @ 16" O.C. W/ WASHER PLYWOOD ON BOTH SIDES OF WALL 1/2" PLYWD (32/16), PS1 RATING 10d @ 6" O.C. 10d @ 12" O.C. 5/8" DIA. A307, (12" HEADED) @ 48" O.C. W/ WASHER NAILING @ HEADERS PER 14/S4.1 \*\*\* REQUIREMENTS FOR EXTERIOR NON-SHEARWALL WALLS

. ALL WALL SHEATHING SHALL BE APA RATED PS1 STRUCTURAL SHEATHING (OSB OR PLYWOOD)

- BLOCK ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.O.N. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS. ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.O.N. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS.
- 3. ALL PLYWOOD NAILS SHALL BE COMMON WIRE. SEE SPECIFICATIONS FOR OTHER NAIL
- 4. EXTERIOR WALLS NOT DESIGNATED AS SHEARWALLS IN THE WALL FRAMING PLAN SHALL MEET REQUIREMENTS INDICATED FOR NON-SHEARWALL WALLS IN THE SCHEDULE ABOVE. EXTERIOR WALLS NOT DESIGNATED AS SHEARWALLS IN THE WALL FRAMING PLAN SHALL MEET REQUIREMENTS INDICATED FOR NON-SHEARWALL WALLS IN THE SCHEDULE ABOVE.

WALL FRAMING:

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

### STUD LAYOUT:

PRESSURE TREATED.

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

(1) COORDINATE WITH ELECTRICAL POWER PLAN SHEET E3.0.

- 2 INTERIOR NON-BEARING STUD WALL FRAMING; REFER TO SHEET A1.0 FOR DIMENSIONS AND STUD SIZES. SEE DETAIL 10 & 11/S4.1 AND WALL FRAMING NOTES.
- 3 (2) 2x6 TOP PLATES SPLICE PER 12/S4.1. U.O.N. REF. 1/S4.3 FOR CAP
- 4 TOP OF TRUSS BEARING PLATE. SEE DETAIL 1 & 2/S4.1.
- 5 TOP OF PARAPET. SEE DETAIL 1/S4.3.
- 6 FREEZER/COOLER BY MANUFACTURER.
- 7 COORDINATE WITH PLUMBING ROUGH IN SHEET P4.0. 8 2x4 STUD @ 16" O.C. FURRING AT TOWER. SEE DETAIL 4 & 5 ON SHEET



OPEN KITCHEN MODERN EXPLORER

TACO BELL

20779 E. 13 MILE RD.

ROSEVILLE, MI 48066

B |05/31/18 |BULLETIN 1

CONTRACT DATE:

**BUILDING TYPE:** 

PLAN VERSION:

BRAND DESIGNER: SITE NUMBER:

STORE NUMBER:

A 04/20/18 BUILDING COMMENTS 02/19/18 ISSUED FOR PERMIT

01.08.18

T40M-O

DEC 2017

312262/442877

2016088.09

**WALL FRAMING PLAN** 

WALL	SHEATHING	AND SHEAF	RWALL SC	HEDULE	

OTHER REQ'S.

5. SHEARWALL LENGTHS WHERE NOTED ARE MINIMUM. DO NOT LOCATE

LENGTHS. SHEARWALL LENGTHS WHERE NOTED ARE MINIMUM.

EDGE NAIL WALL PLY TO STUDS OR POSTS WITH HOLD-DOWNS.

THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.

HOLDOWNS FROM THESE DIMENSIONS. SEE ARCH DWGS FOR ACTUAL WALL

POST WIDTH SHALL MATCH STUD WALL WIDTH. SEE FOUNDATION PLAN FOR

8. WHERE PANELS ARE APPLIED TO BOTH FACES OF A WALL AND NAIL SPACING

WALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3x OR

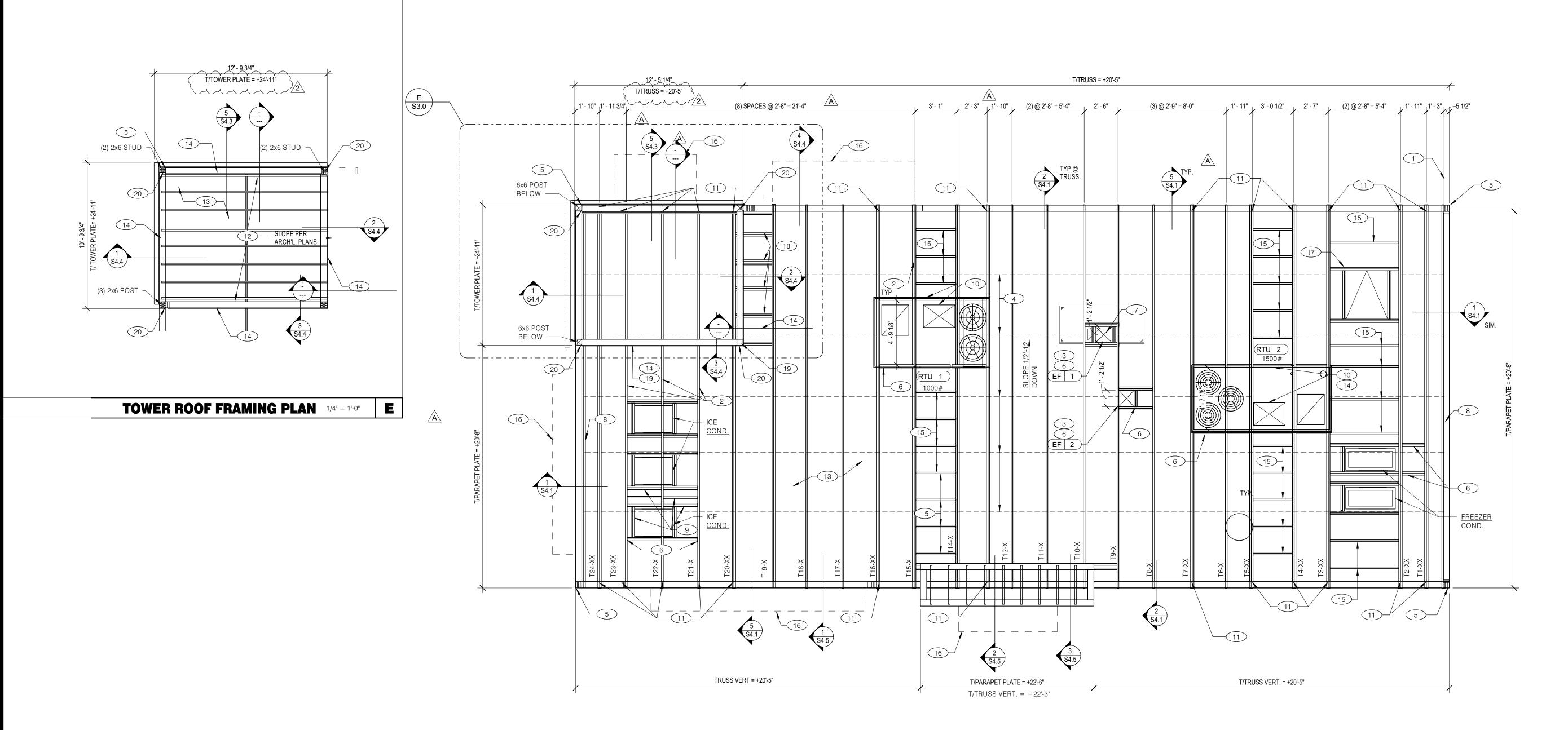
9. ALL ANCHOR RODS SHALL BE EMBEDDED A MINIMUM OF 8" BELOW TOP OF

IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO

6. HD REFERS TO SIMPSON STRONGTIE CO. HOLDOWNS. INSTALL PER 6/S4.0.

FRAMING PLAN NOTES

C **KEY NOTES** 





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

NAILING SCHEDULE - ROOF

SEE 8/S4.2 FOR DEFINITIONS.

### **ROOF FRAMING NOTES:**

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

### MANUFACTURED ROOF TRUSS NOTES:

- A. MFR'D ROOF TRUSSES ARE AT 2'-8" O.C. U.O.N. B. "T-#" DENOTES ROOF TRUSS TYPE. REFER TO SCHEDULE 7/S4.2.
- TRUSS DWGS ARE PROVIDED FOR CONCEPTUAL DESIGN ONLY. MFR SHALL SUBMIT SHOP DWGS AND CALCS, BOTH SIGNED BY A LICENSED STRUCTURAL ENGINEER (STATE OF MICHIGAN). SUBMIT SHOP DWGS AND CALCS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND SUBMITTAL AND, IF REQUIRED, TO BLDG. OFFICIAL FOR APPROVAL PRIOR TO FABRICATION. SHOP DWGS SHALL INCLUDE LAYOUT PLAN AND CONNECTORS. CALCS SHALL BE BASED ON THE SPECIFIED LOADING CONDITIONS SHOWN HEREIN. MFR SHALL PROVIDE HANGERS AND CONNECTIONS BETWEEN TRUSSES. REVIEW AND APPROVE DIMENSIONS, SHAPES AND DETAILS SHOWN ON SHOP DWGS PRIOR TO SUBMITTAL TO THE ARCHITECT / ENGINEER FOR REVIEW AND COMMENT.
- D. TRUSS MFR SHALL PROVIDE HANGERS AND CONNECTORS ADEQUATE FOR LOADS. ROOF CONNECTORS ARE BASED UPON SIMPSON "STRONG TIE" OR APPROVED EQUAL.
- E. TRUSS CHORDS AND PARAPET VERTICALS SHALL BE 2x6 MIN AND CONSISTENTLY SIZED THROUGHOUT PROJECT.

- F. REFER TO TRUSS ELEVATIONS FOR SHAPE, OVERHANG, SLOPES, SPAN, ETC. LOCATION OF BEARING POINTS ARE AS INDICATED ON THE DRAWINGS. SEE 3/S4.2.
- G. MFR'D ROOF TRUSS DESIGN LOADS: SEE TRUSS DESIGN CRITERIA 3/S4.2. PROVIDE ADD'L POINT LOAD FROM KEYNOTE 19 THIS SHEET.
- H. THE POSITIONS, WEIGHTS, AND METHODS OF ATTACHMENT OF ALL MECHANICAL UNITS, ELECT FIXTURES, PLUMBING, ETC. SHALL BE INCLUDED IN THE DESIGN OF THE TRUSSES BY
- I. DESIGN ROOF TRUSSES TO SUPPORT ALL IMPOSED LOADS, INCLUDING WIND & LATERAL LOADS. COORDINATE SIZE, LOCATION AND WEIGHT OF EQUIPMENT WITH MECHANICAL WORK. PROVIDE MULTIPLE TRUSSES WHERE ONE TRUSS CANNOT SUPPORT THE LOAD.
- PROVIDE BRIDGING BETWEEN TRUSSES AS SPECIFIED AS MINIMUM STANDARD. J. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK. CARE SHALL BE USED IN LIFTING TO PREVENT HORIZONTAL BENDING. K. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE SPECS SHALL MEAN
- REMOVAL OF THE TRUSSES FROM THE JOBSITE AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- REFERENCE MANUFACTURED TRUSS DRAWINGS FOR DETAILS ON TRUSS MANUFACTURING AND NAILING.

- STARTING POINT OF TRUSS LAYOUT CENTERLINE OF TRUSS.
- VERIFY NECESSITY OF DOUBLE TRUSSES WITH TRUSS MFR. DUE TO POINT LOADING AND ADDITIONAL UNIFORM LOADING, TYPICAL.
- COORDINATE BLOCKING WITH EXHAUST AND SUPPLY DUCT.
- CONT 2x4 WD BRIDGING ON TOP OF BOTTOM CHORD. ADJUST AS REQUIRED FOR DUCT
- SEE 13/S4.1 FOR BRIDGING LAP DETAIL. SIMPSON MSTA 24 AT CORNER DBL TOP PLATE. CENTER STRAP ON CORNER. 6

PLENUMS, MAX SPACING AT 5'-0" O.C. OR TIGHTER SPACING AS REQUIRED BY TRUSS DESIGN.

(2) 2x6 BLOCKING W/ U26-2 HANGERS. TYP. EDGES OF ALL ROOF TOP EQUIPMENT AND ALL

- ROOF OPENINGS SEE DET. 6 & 10/S4.2. LOCATION OF HOOD. SEE HOOD DRAWINGS FOR HOOD ATTACHMENT DETAIL 6/S4.1.
- 8 (2) 2x6 LEDGER REF. 1/S4.1.
- 9 2x6 @48" OC. W/ U26 EACH END.
- HVAC ROOF OPENING FOR DUCT. VERIFY SIZE WITH HVAC MFR. & MECHANICAL DWGS.
- (2) 2x6 BUILT-UP COLUMN AT TRUSS BEARING, TYP. @ GIRDER. TRUSS ONLY. REF. DETAIL

- 12 2x8 ROOF JOIST @ 16" O.C. WITH MID-SPAN BLOCKING.
- 13 PLYWOOD ROOF DECK. SEE NAILING SCHEDULE, THIS SHEET.
- 2x6 @ 16" O.C. STUD TOWER WALL.
- 2x6 @ 24" O.C. WITH SIMPSON U-26 EA. END.
- 16 CANOPY BY MANUFACTURER.
- 17 ROOF HATCH.
- (2) 2x6 @ 24" O.C. BLOCKING PERPINDICULAR TO TOWER WALLL WITH SIMPSON U-26 EA.

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

- PROVIDE (3) 2x6 BLOCKING AT CORNER AND ALONG TOWER WALL W/ HUS26-2 HANGERS, EA. END. <u>Design trusses t-19x and t-20xx for add'l 1.5 kip uplift and 1.5 kip</u> DOWN FORCE.
- PROVIDE (2) 2x6 WALL STUDS AT EA. CORNER WITHOUT A 6x6 POST. PROVIDE DTT2Z TENSION TIES FROM BLOCKING TO STUDS WITH 1/2" DIA. ANCHOR. INSTALL PER MANUF. RECOMMENDATIONS.

6/14/18 | BULLETIN 2 A |04/20/18 |BUILDING COMMENTS 02/19/18 ISSUED FOR PERMIT

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

CONTRACT DATE: 01.08.18 **BUILDING TYPE:** PLAN VERSION: DEC 2017 BRAND DESIGNER:

SITE NUMBER: 312262/442877 STORE NUMBER: 2016088.09

TACO BELL

T40M-O



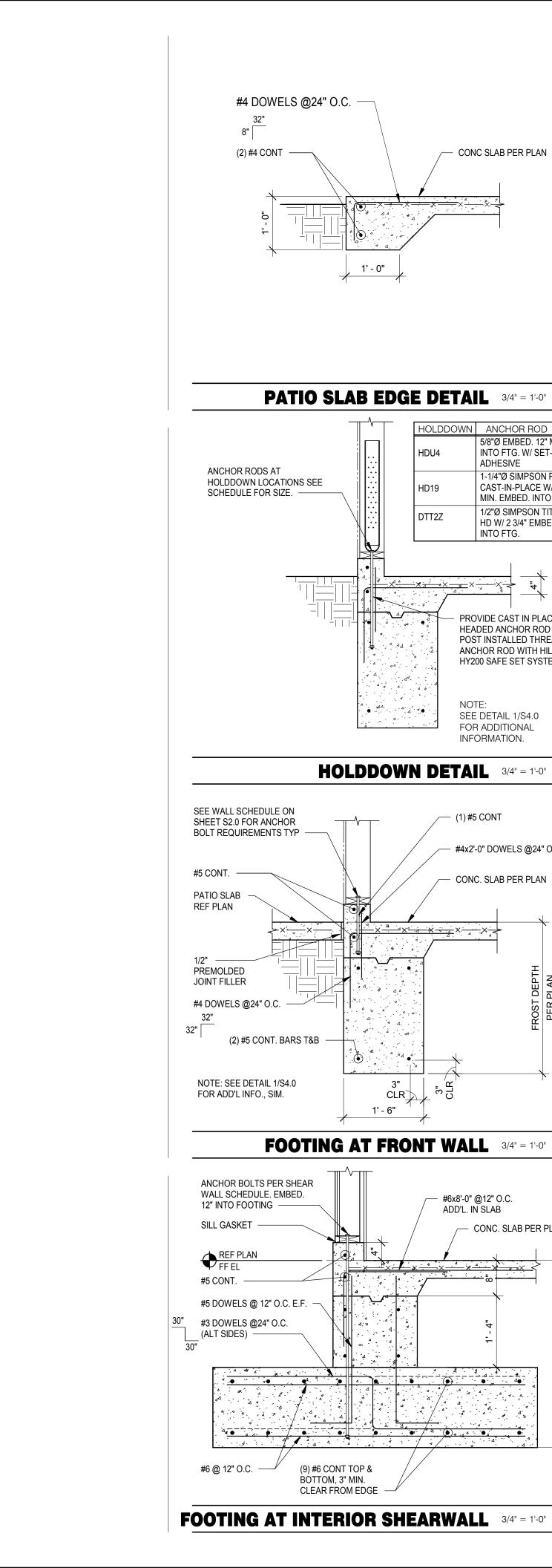


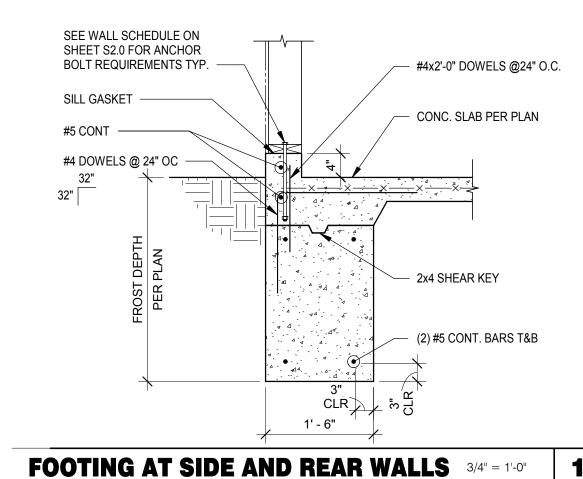
OPEN KITCHEN MODERN EXPLORER

**ROOF FRAMING PLAN** 

**ROOF FRAMING NOTES** 

**KEY NOTES** 





CONC SLAB PER PLAN

HOLDDOWN ANCHOR ROD

HD19

ADHESIVE

INTO FTG.

PROVIDE CAST IN PLACE HEADED ANCHOR ROD OR POST INSTALLED THREADED

ANCHOR ROD WITH HILTI HY200 SAFE SET SYSTEM

SEE DETAIL 1/S4.0 FOR ADDITIONAL

- #4x2'-0" DOWELS @24" O.C.

CONC. SLAB PER PLAN

INFORMATION.

(1) #5 CONT

- #6x8'-0" @12" O.C. ADD'L. IN SLAB

CONC. SLAB PER PLAN

8

- 10" MIN WIDTH -

5/8"Ø EMBED. 12" MIN.

INTO FTG. W/ SET-XP

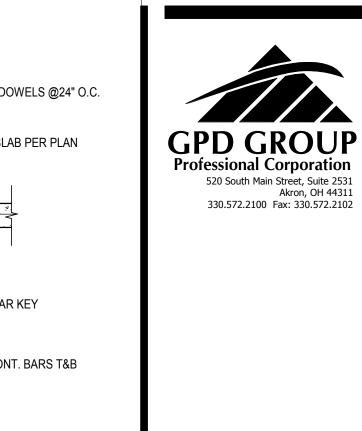
CAST-IN-PLACE W/ 12"

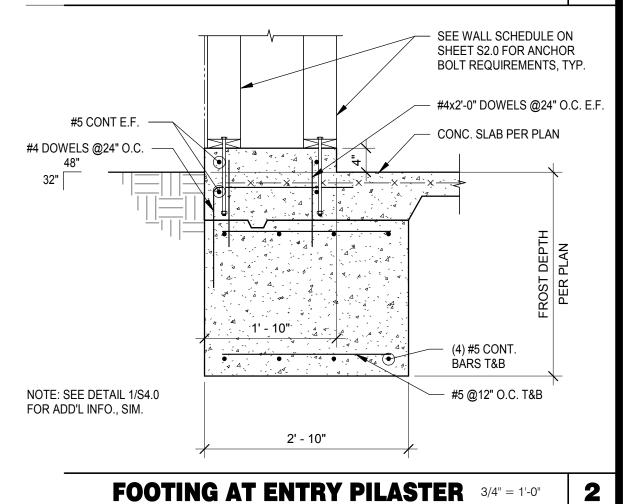
MIN. EMBED. INTO FTG

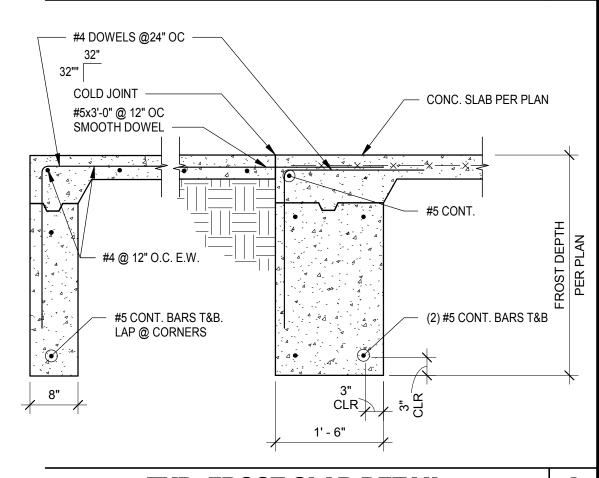
1/2"Ø SIMPSON TITEN

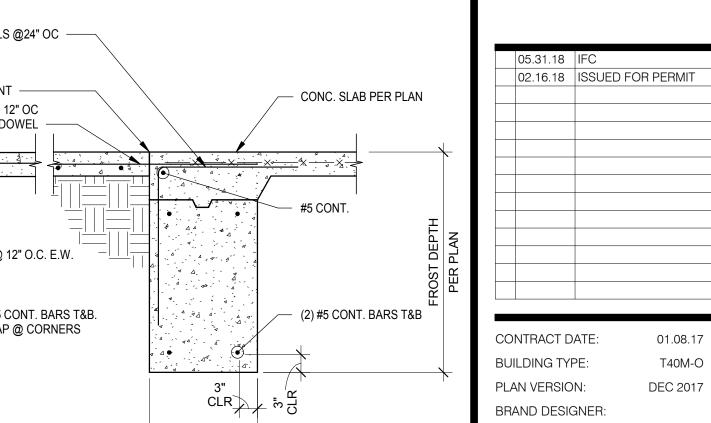
HD W/ 2 3/4" EMBED.

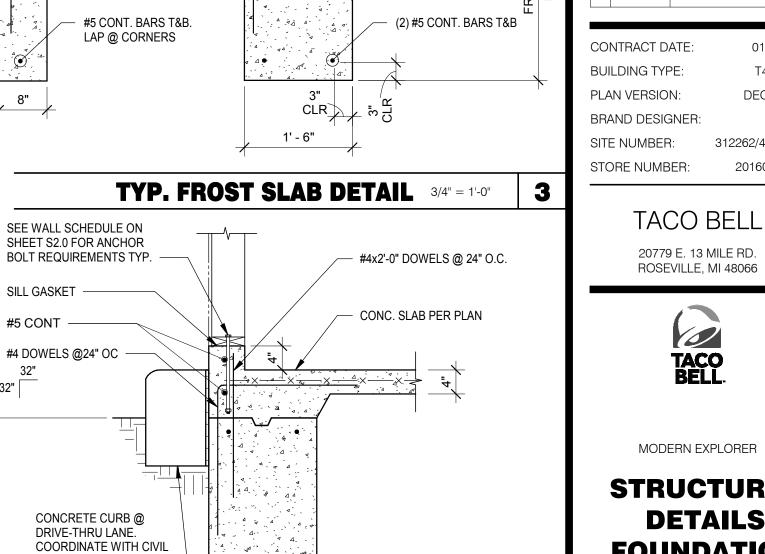
1-1/4"Ø SIMPSON PAB10





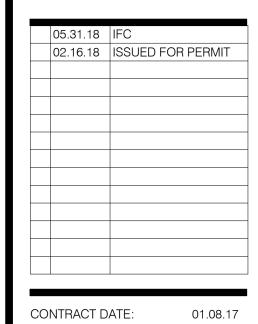






- (2) #5 CONT. BARS T&B

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



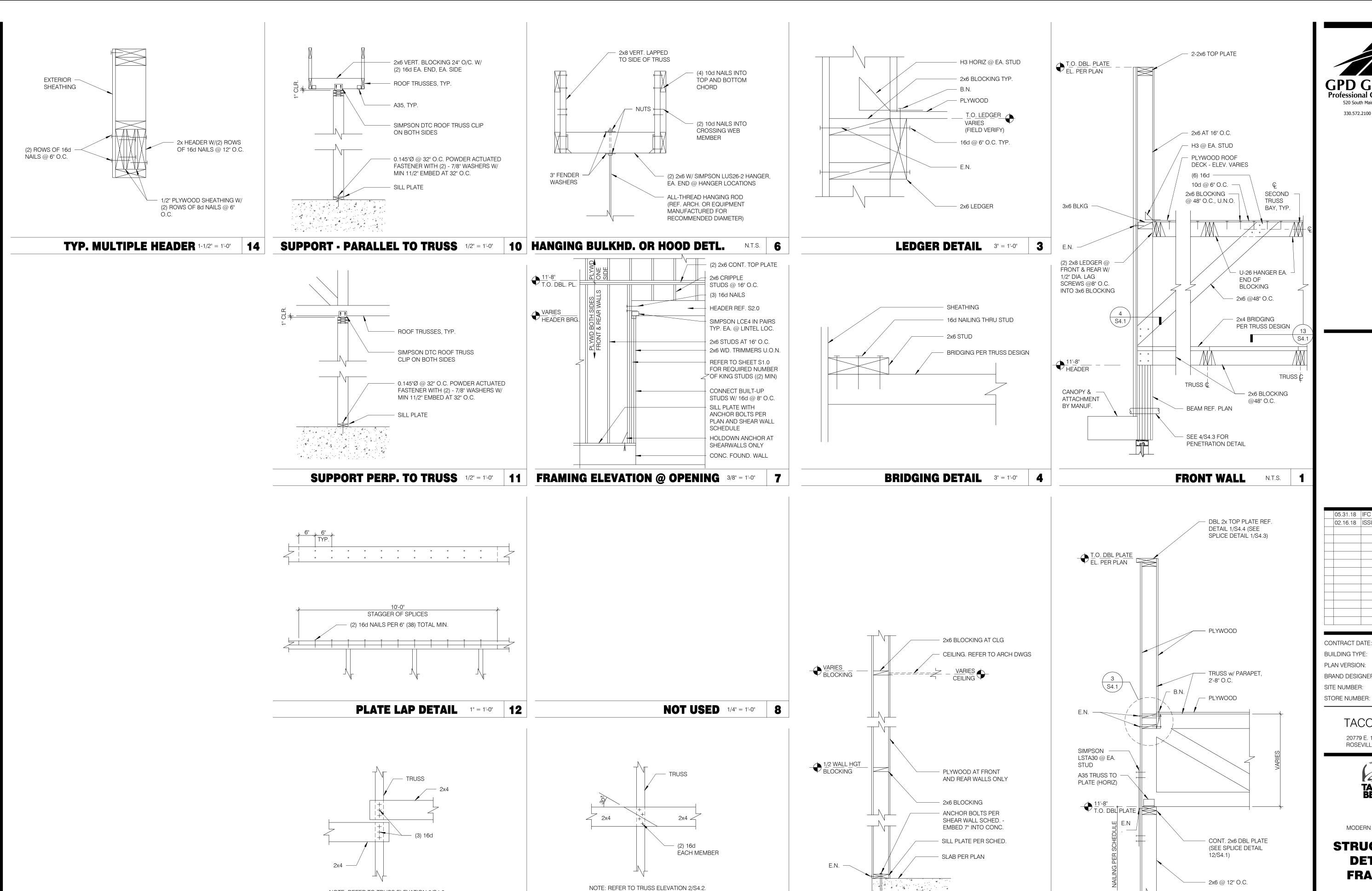
312262/442877 2016088.09

TACO BELL



MODERN EXPLORER

**STRUCTURAL DETAILS FOUNDATION** 

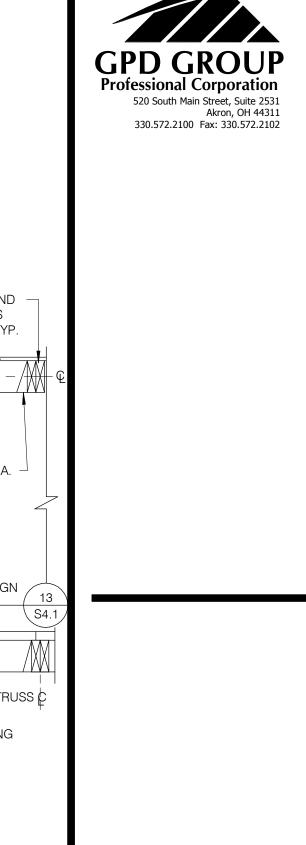


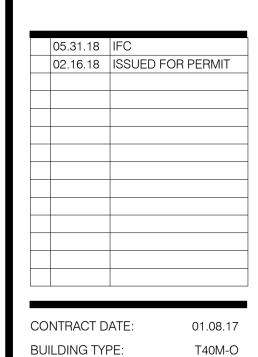
13 BRIDGING LAP DETAIL @ OPEN CLG. N.T.S. 9

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

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

**BRIDING LAP DETAIL** 





**BUILDING TYPE:** PLAN VERSION: DEC 2017 BRAND DESIGNER: SITE NUMBER: 312262/442877 2016088.09

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

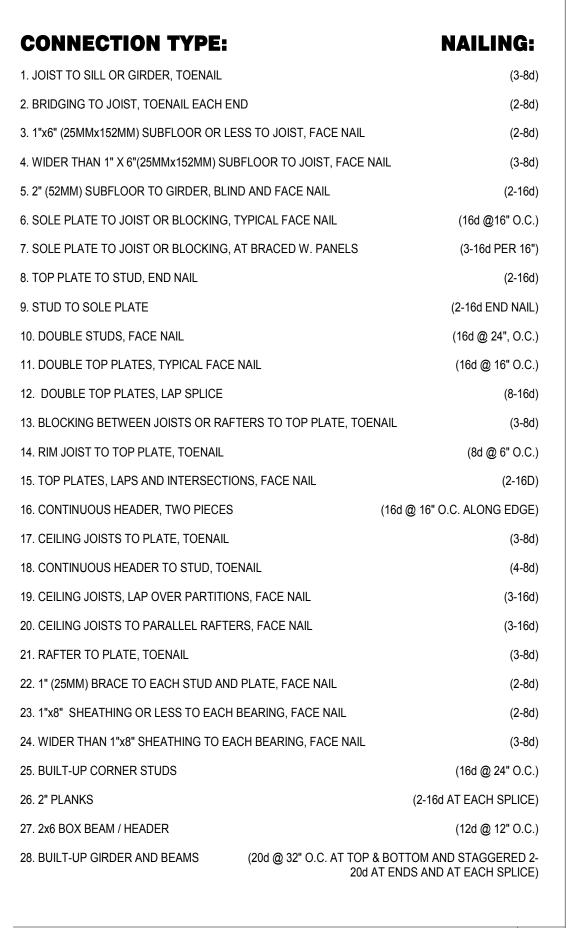


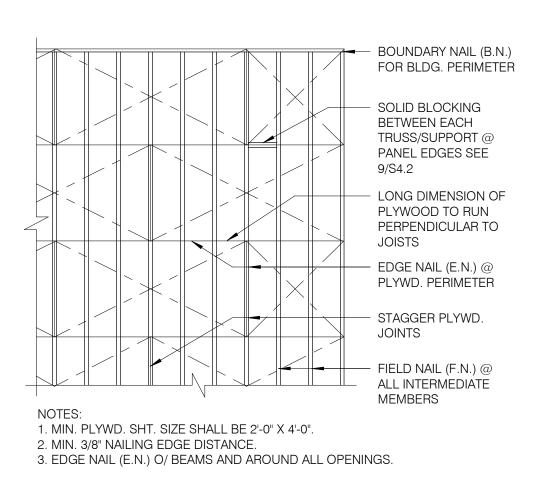
MODERN EXPLORER

**STRUCTURAL DETAILS FRAMING** 

N.T.S. **2** 

SIDE WALL @ TRUSS





**ROOF NAILING PLAN** 

1/8" GAP

PLYWOOD ROOF

DECK SHEATHING

(2) SIMPSON PSCL PANEL

SHEATHING CLIPS **EQUALLY SPACED** 

BETWEEN EACH TRUSS/SUPPORT

	1500 lbs.
*	200 lbs.
*	70 lbs.
	400 lbs.
	200 lbs.
	300 lbs.
	300 lbs.

DESIGN WEIGHT

1000 lbs.

**EQUIPMENT** 

HVAC UNIT - RTU-1

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

PLYWOOD SHEATHING

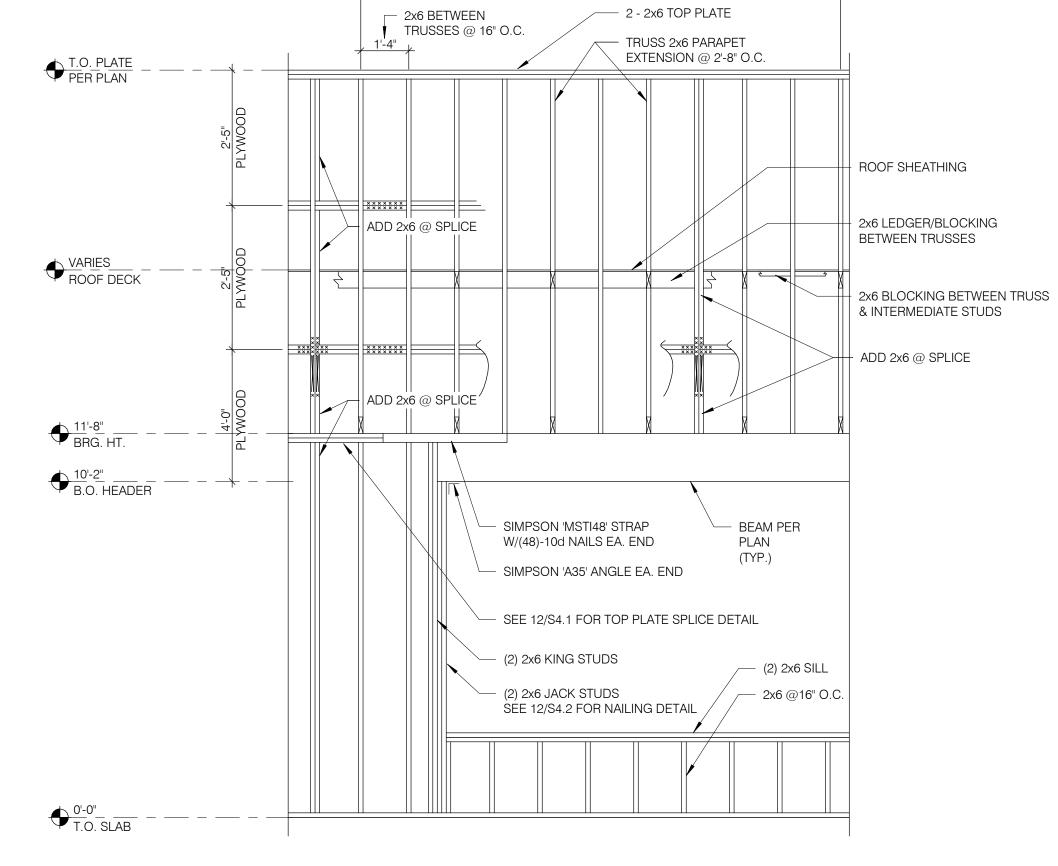
- (2) 2x6 BLOCKING

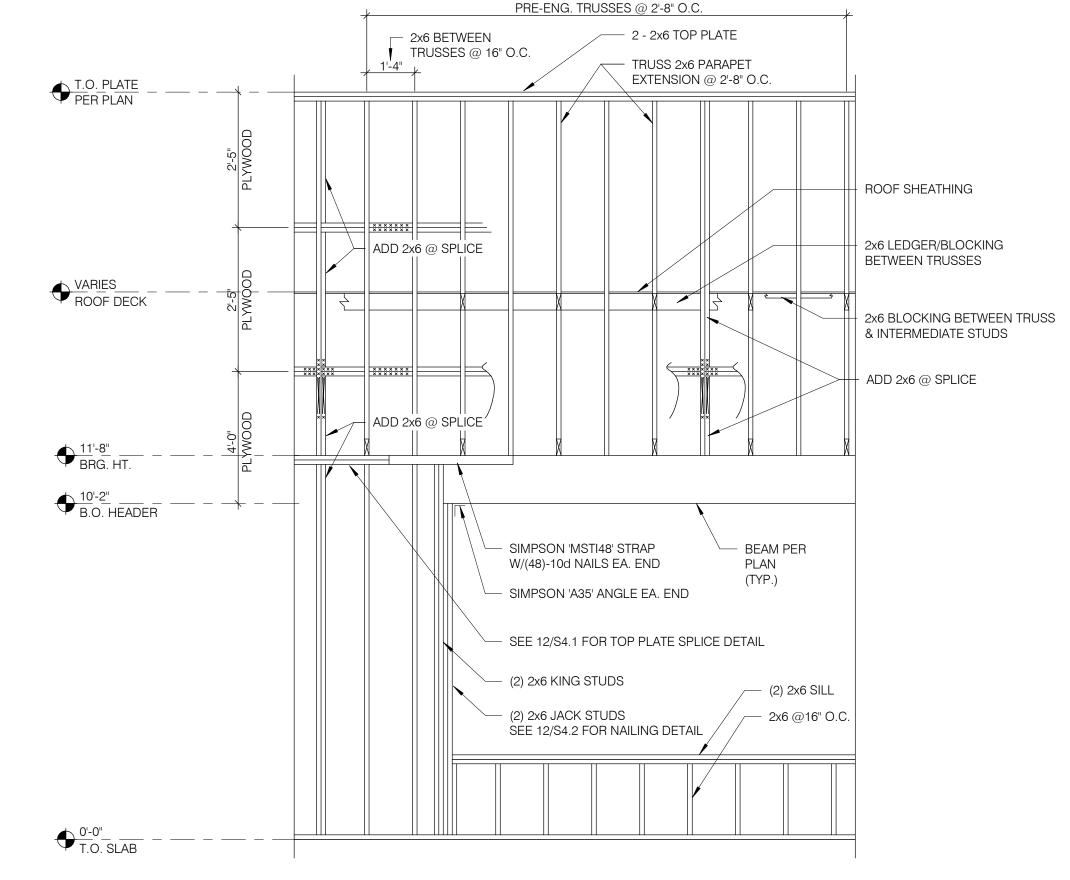
COMMON TRUSS

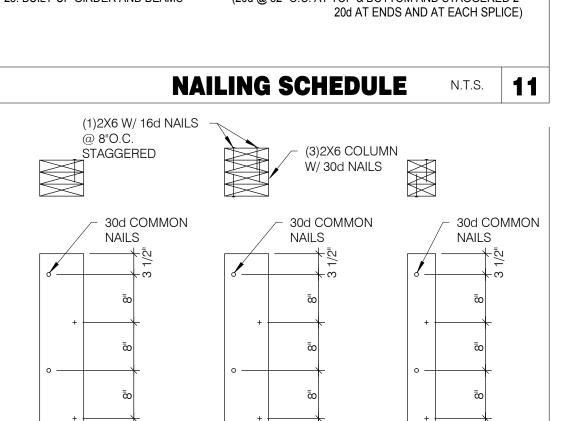
SIMPSON U26-2 @ DBL. 2X6

N.T.S.

ROOF TOP EQUIPMENT WEIGHTS N.T.S. 5
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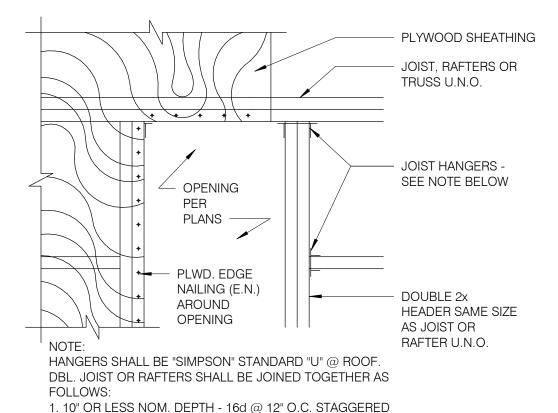




(4) 2X6 COLUMN

**BUILT-UP 2X COLUMNS** 

(3) 2X6 COLUMN



2. MORE THAN 10" - (2)16d @ 12" O.C.

PLYWOOD EDGE BLOCKING

TRUSS TYPES	SINGLE TRUSS DESIGNATION	DOUBLE TRUSS DESIGNATION	BEARING POINT	COMMENTS
T1 - T24	Х	XX	$\overline{}$	SEE NOTE 1.

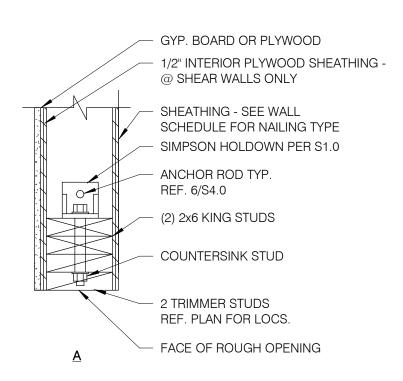
**ROOF OPENING DETAIL** 

9

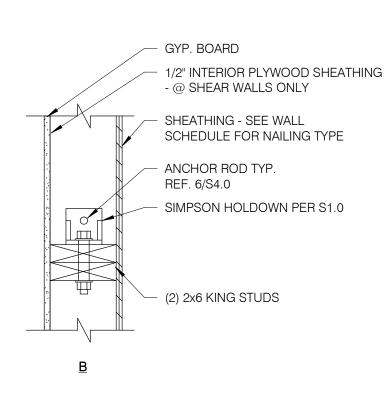
10

- 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.

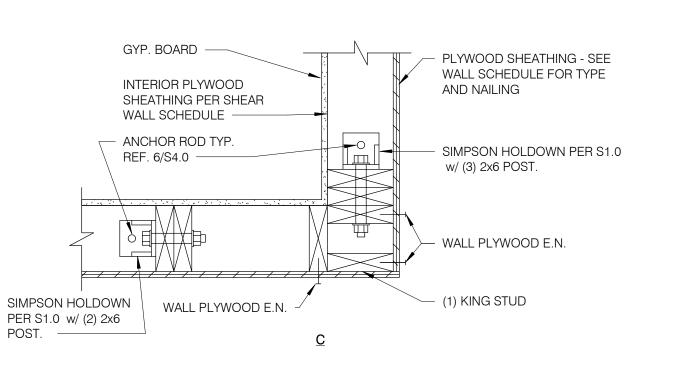
TRUSS BEARING EL.  11-8'  NOTE: ALL WEBS MUST ALIGN BETMEEN TO ILEARANCE AREA REQUIRED FOR HVAC  BETMEEN TO ILEARANCE AREA REQUIRED FOR HVAC  CLEARANCE AREA REGUIRED FOR HVAC DUCT & INSULATION.  TRUSS BEARING EL.  11-8'  NOTE: ALL WEBS MUST ALIGN BETMEEN TO ILEARANCE AREA RECOURCE OF HVAC  ONT 2X4 LATERAL BRACING, SEE SHT. S3.0  1 2x6 MIN. AREA RECOURCE FOR HVAC			WA	ALL FRAMING DETAIL 3/8" = 1'-0	)" 1
REQUIRED FOR HVAC DUCT & INSULATION.  12  17  18  19  10  10  11  11  11  11  11  11  11		T.O. TRUSS SEE S3.0	27'-4"		
	BEARING EL.	REQUIRED FOR HVAC DUCT & INSULATION1	CLEARANCE A REQUIRED FO DUCT & INSUL  JAL SPACES, TYP.  MIN. 20"Wx10"D CLEARANCE	CONT 2X4 LATERAL BRACING. SEE SHT. S3.0	2'-6" MIN.



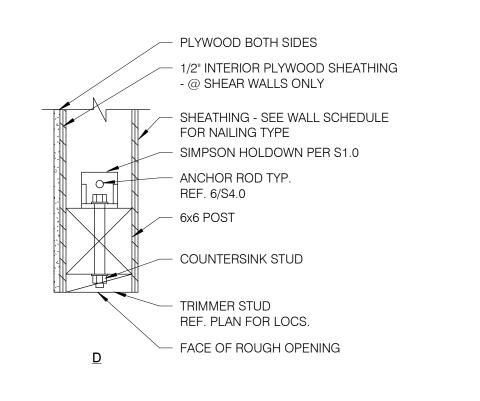
(3) 2X4 COLUMN

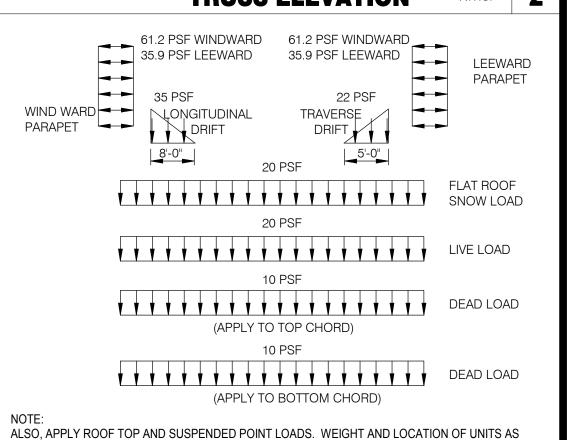


TYPICAL ROOF OPENING 1" = 1'-0"



TRUSS SCHEDULE





**STRUCTURAL DETAILS ROOF** 

|05.31.18 |IFC

CONTRACT DATE:

**BUILDING TYPE:** 

PLAN VERSION:

SITE NUMBER:

BRAND DESIGNER:

STORE NUMBER:

TACO BELL

20779 E. 13 MILE RD.

ROSEVILLE, MI 48066

MODERN EXPLORER

02.16.18 ISSUED FOR PERMIT

01.08.17

T40M-O

DEC 2017

312262/442877

2016088.09

520 South Main Street, Suite 2531

330.572.2100 Fax: 330.572.2102

Akron, OH 44311

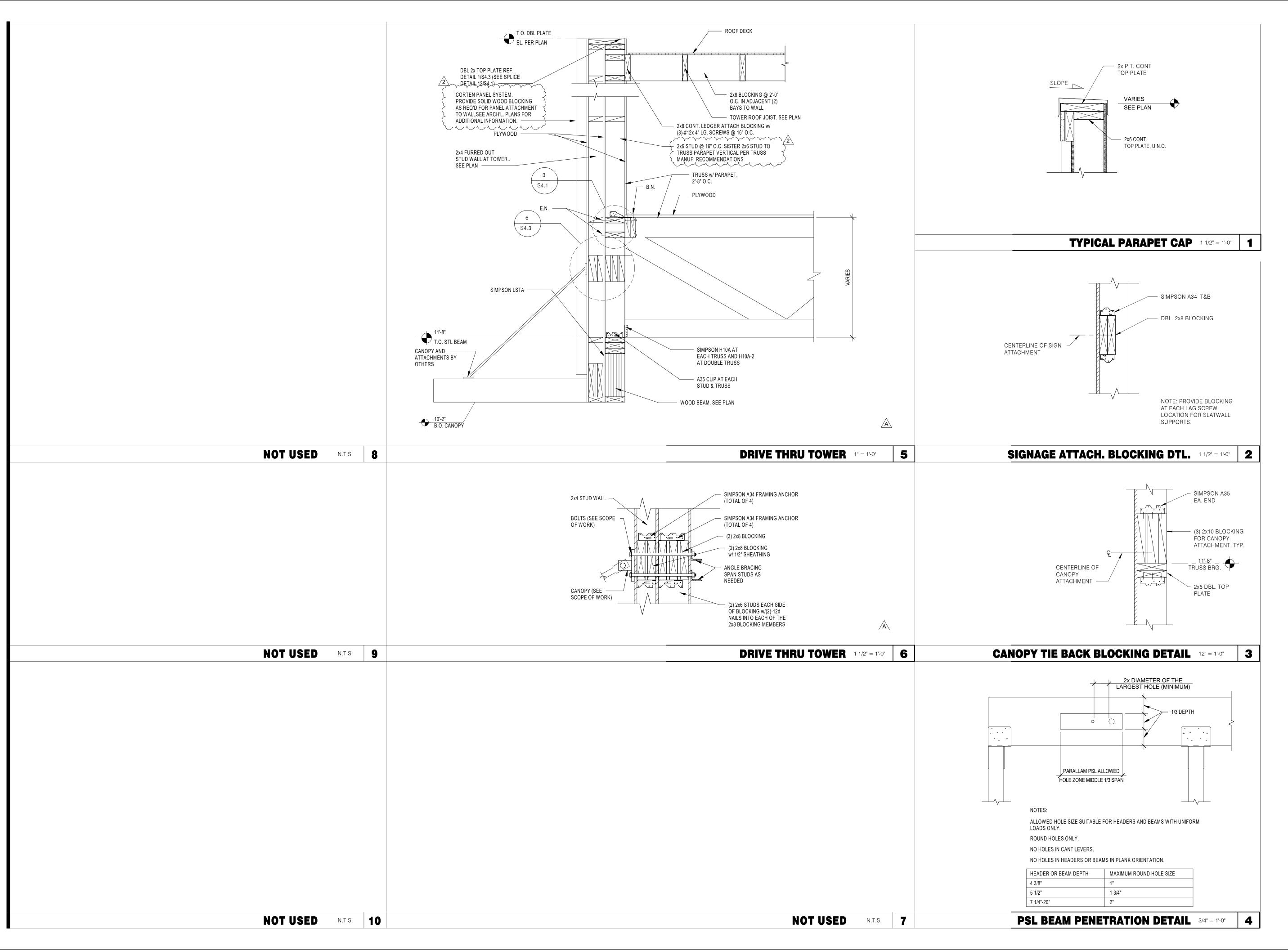
HOLDOWN DETAILS 1 1/2" = 1'-0" 4

TRUSS LOAD DIAGRAMS

NOTED ARE SHOWN ON THIS SHEET AND ARE NOT INCLUDED IN THE ABOVE LOADING DIAGRAM.

VERIFY THESE LOADS WITH MECHANICAL SUPPLIER BEFORE DESIGNING TRUSS.

N.T.S.





2	6/14/18	BULLETIN 2
Α	04/20/18	BUILDING COMMENTS
	02/19/18	ISSUED FOR PERMIT

BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER: 312262/442877

CONTRACT DATE:

STORE NUMBER:

TACO BELL

01.08.18

2016088.09

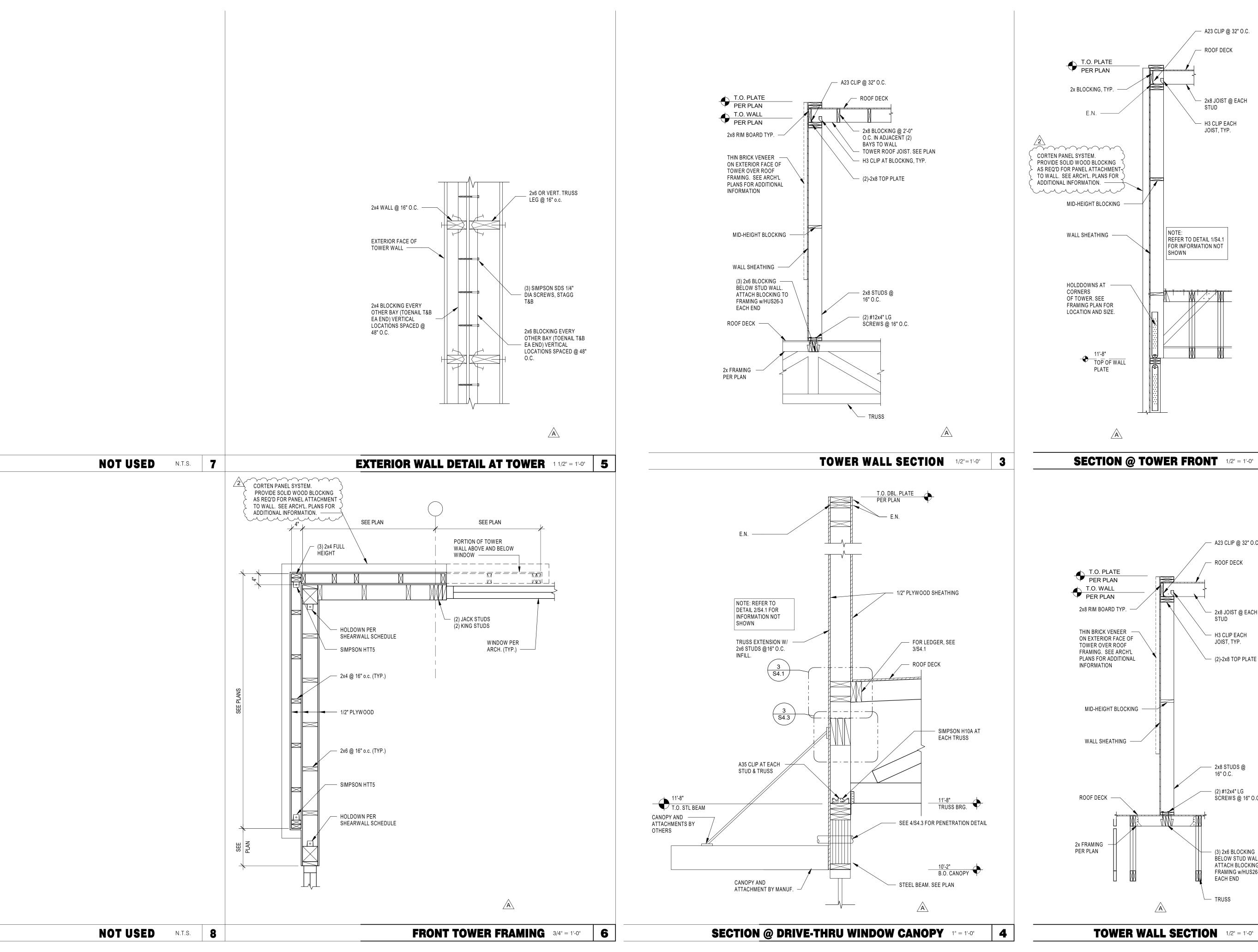
20779 E. 13 MILE RD. ROSEVILLE, MI 48066

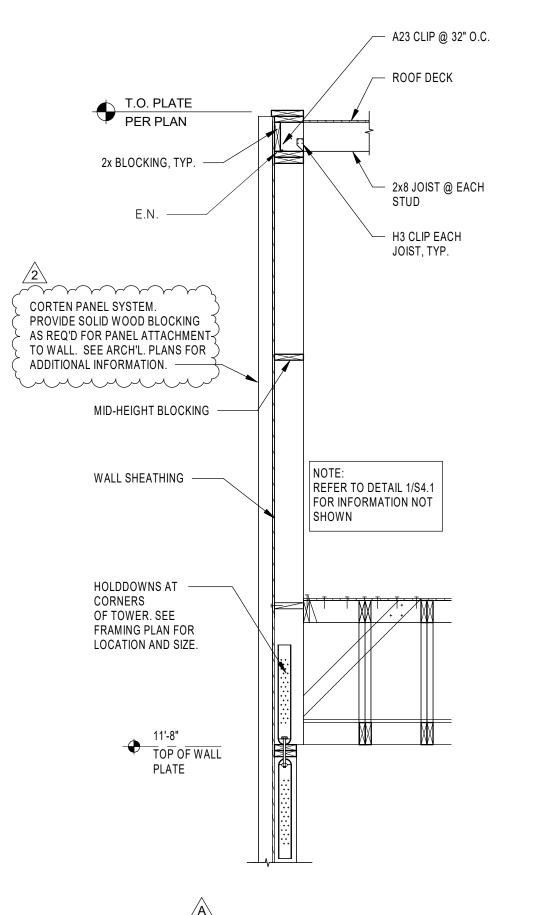


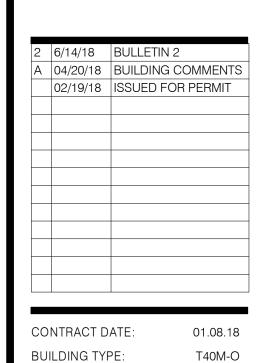
I 40 OPEN KITCHEN MODERN EXPLORER

STRUCTURAL DETAILS TACO BELL TOWER

**S4.3** 







- ROOF DECK

2x8 JOIST @ EACH

- H3 CLIP EACH JOIST, TYP.

- (2)-2x8 TOP PLATE

2x8 STUDS @ 16" O.C.

- (2) #12x4" LG SCREWS @ 16" O.C.

(3) 2x6 BLOCKING
 BELOW STUD WALL.
 ATTACH BLOCKING TO

FRAMING w/HUS26-3

2

EACH END

TRUSS

STUD

**Professional** 

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

PLAN VERSION: DEC 2017 BRAND DESIGNER: SITE NUMBER: 312262/442877

STORE NUMBER:

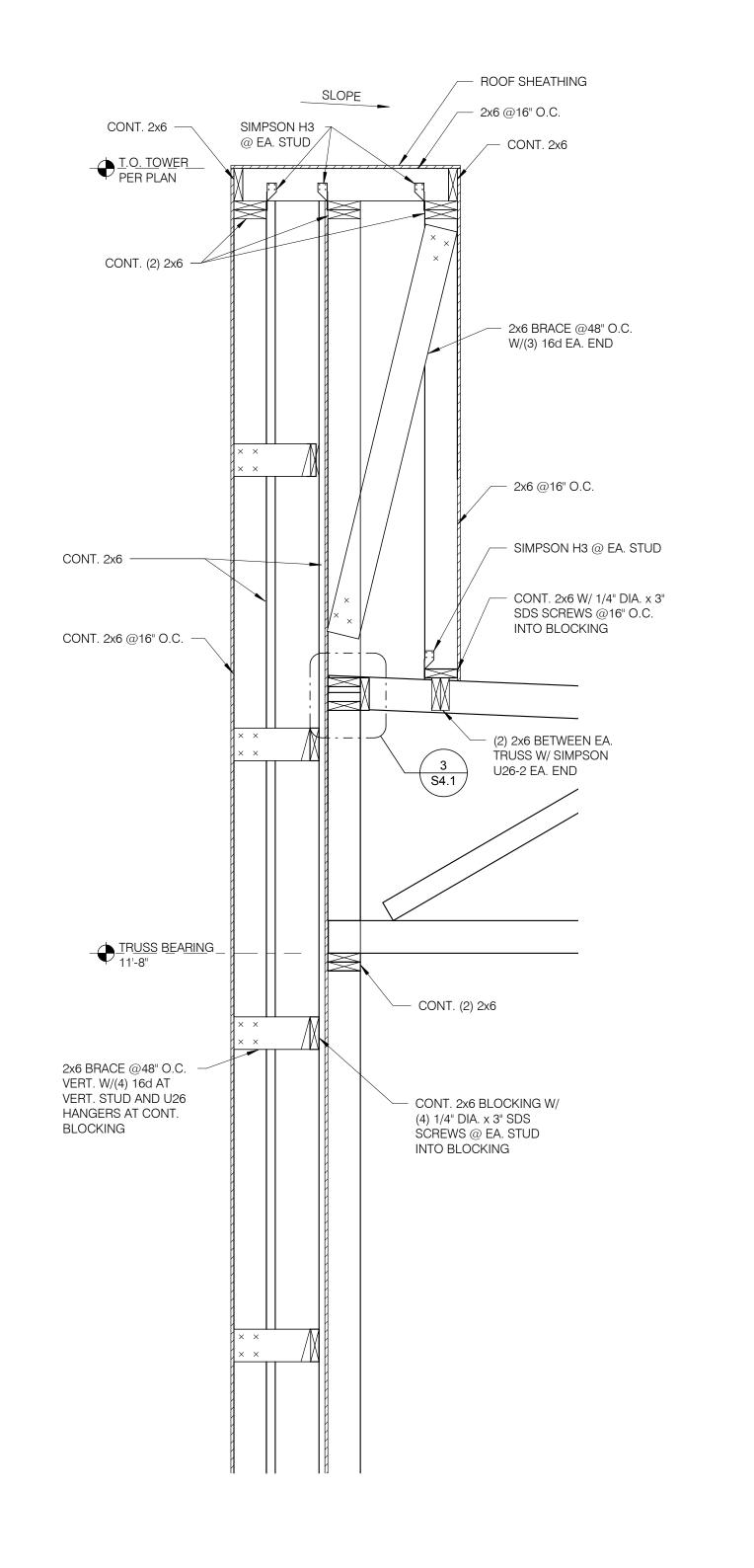
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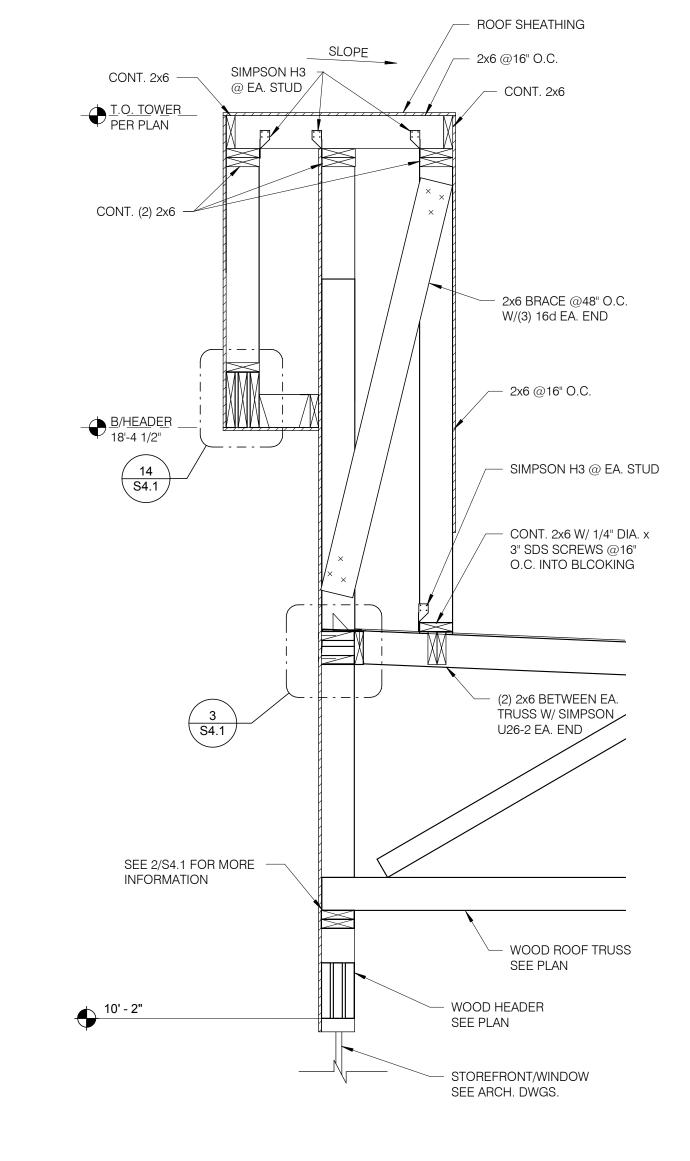


OPEN KITCHEN MODERN EXPLORER

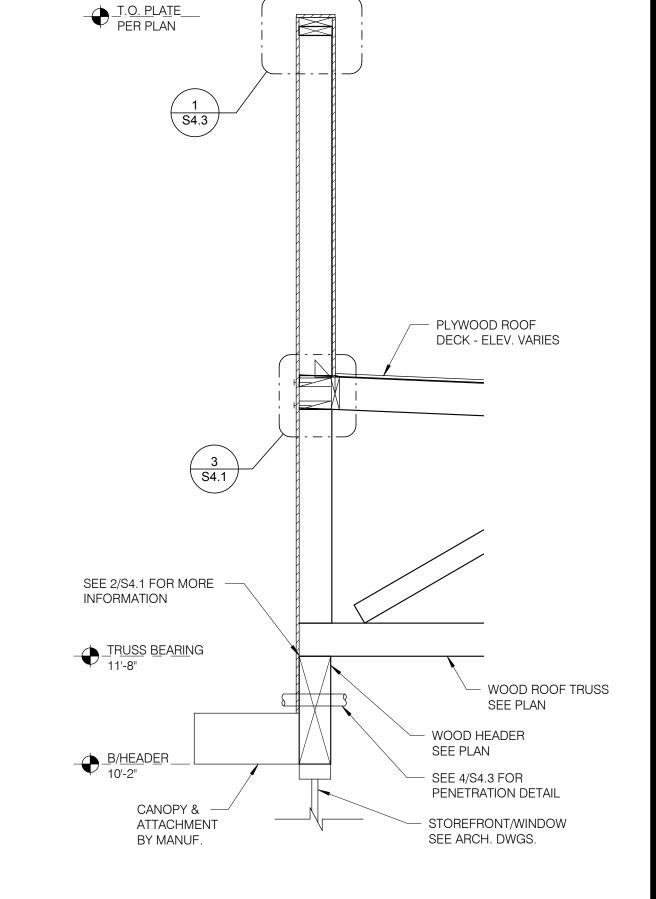
**STRUCTURAL SECTIONS** 



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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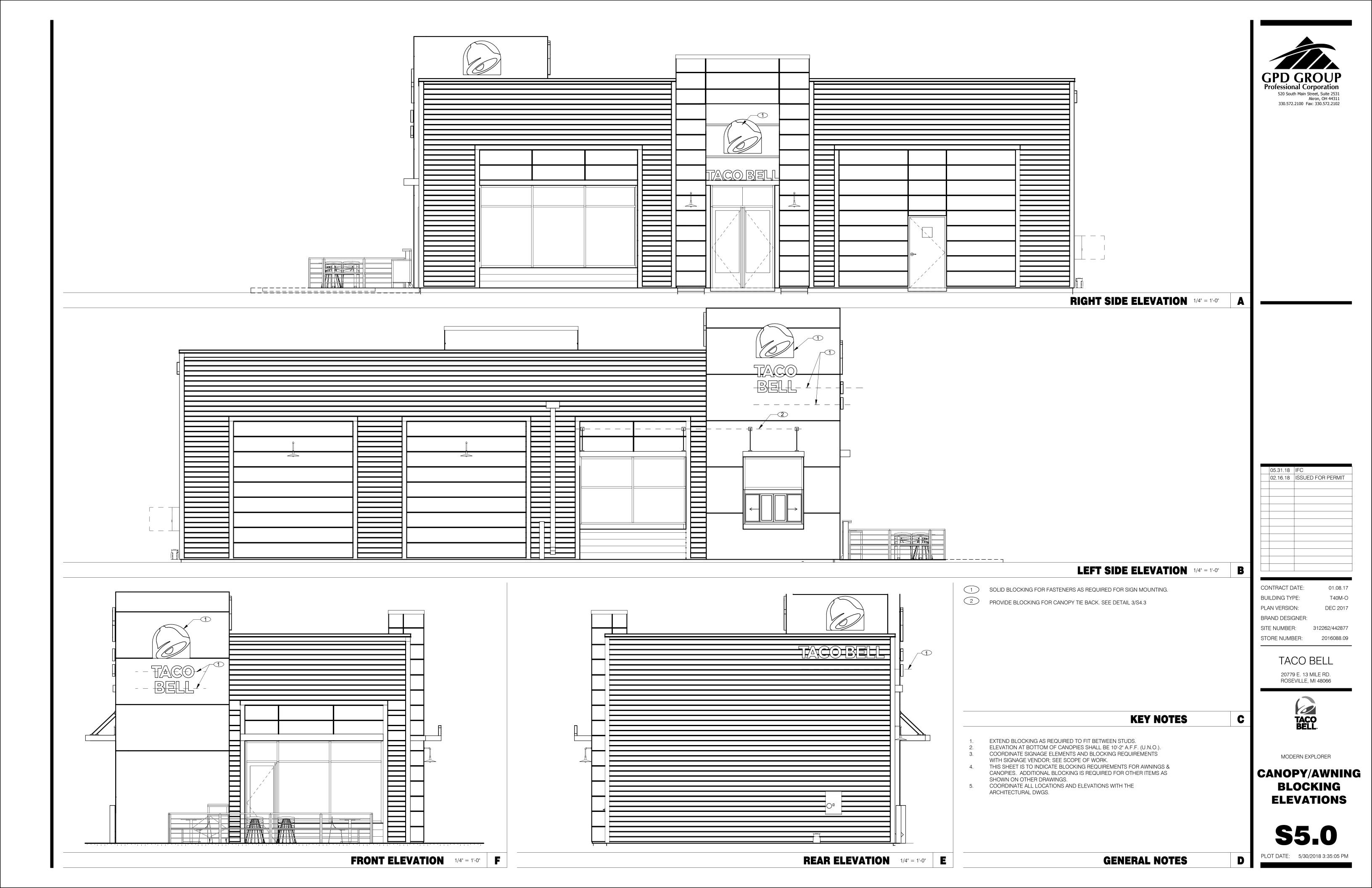
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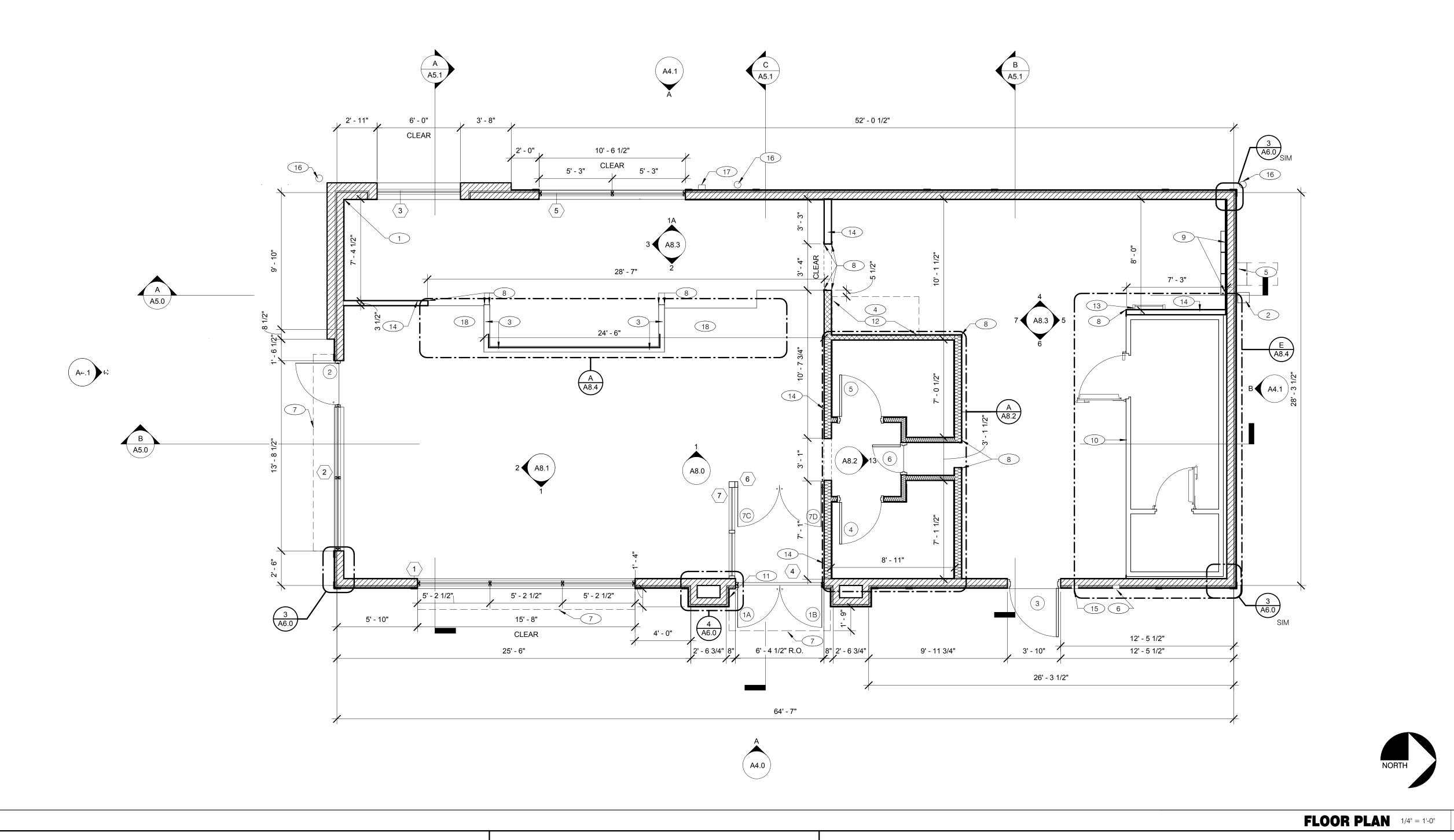
MODERN EXPLORER

STRUCTURAL SECTIONS

**S4.5**PLOT DATE: 5/30/2018 3:35:02 PI







CONTRACT DATE: 01.08.18

05/31/18 IFC

A 04/20/18 BUILDING COMMENTS

02/19/18 ISSUED FOR PERMIT

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

STORE NUMBER:

TACO BELL

2016088.09

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OPEN KITCHEN MODERN EXPLORER

**FLOOR PLAN** 

2x6 WD STUDS AT 16" O.C. W/ SHEATHING AS SCHEDULED TYPICAL INTERIOR WALL W/ 3-1/2" UNFACED DIMENSIONS NOTED AS "CLEAR" OR "HOLD" ARE MIN. REQ'D. NET CLEARANCE 15 HOSE BIB BOX AT 18" A.F.F. SEE DETAIL 7/A6.1 (SEE STRUCT. DWGS.) AND R-19 KRAFT-FACED FIBERGLASS FIBERGLASS BATT INSULATION. FROM FACE OF WALL / WAINSCOT FINISH. VERIFY FINAL EQUIPMENT SIZES W/ 2 GAS SERVICE. VENDOR PRIOR TO INT. WALL FRAMING. BATT INSULATION U.O.N. GC SHALL PROVIDE BLUESKIN VP 16 PIPE BOLLARD, SEE CIVIL DRAWINGS SELF ADHERED AIR BARRIER 3 LOW WALL BY G.C., SEE DETAILS ON A8.3. COORDINATE WITH STRUCTURAL DRAWINGS. (17) 4"x6" ALUMINUM DOWN SPOUTS 600S162-33 METAL STUD WALL WITH 20 GA. S.S. SEE SHT. A1.1 FOR WINDOW TYPES AND DOOR SCHEDULE. 4 HOOD WALL, SEE EQUIPMENT PLAN A2.0 AND SCHEDULE A2.1 PANEL BEHIND HOOD. REFER TO DETAIL 1/M3.0 TYPICAL INTERIOR WALL: ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING. 18 POS COUNTER / V-LINE HALF-WALL AND HAND-OFF PLANE BY GC 2x4 WD STUDS AT 16" 0.C. (2x6 OR 2x8 WHERE NOTED.) FOR EXTENT OF S.S. PANEL. PROVIDE 3-1/2" 5 ELECTRICAL MAIN SWITCH BOARD. REFER TO ELECT. DWGS. UNFACED FIBERGLASS BATT INSULATION. 19 ROUTE 1 1/2" CONDUIT IN LOW WALL FROM CHEESE MELTER LOCATION TO CUSTOMER DRINK STATION FOR FILTERED WATER CONNECTION. INTERIOR WALLS AND GYP. BD. SEPARATING DINING SPACE WITH OTHER AREAS TO EXTEND TO UNDERSIDE OF TRUSSES 6 CO2 FILL BOX LOCATION. SEE DETAIL 5/A6.1 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. 7 LINE OF AWNING ABOVE (BY SIGNAGE VENDOR) ALL JOINTS, GAPS OR SPACES LEADING TO ALL HOLLOW OR INACCESSIBLE SPACES SHALL BE SEALED WITH "NSF INTERNATIONAL" APPROVED SEALANTS. WALL SUBSTRATES 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 ALL BACK OF HOUSE AND OFFICE WALLS SHALL HAVE 1/2" CDX PLYWOOD - <u>DINING ROOM</u>: SUBSTRATE, U.O.N. 1/2" GYPSUM WALLBOARD TO 6" ABOVE CEILING OR TO UNDERSIDE OF DECK WHERE EXPOSED SEE 8 & 15 / A6.5. (NOTE: THE CEMENT BOARD 9 RECESSED SWITCHGEAR / ELECTRIC PANELS, SEE ELECTRICAL DRAWINGS. SPECIFICATION IS DESIGNED TO ALLOW THE G.C. FLEXIBLITY. ) - KITCHEN WALLS AND DINING ROOM CLOSET: PROVIDE THREE FIRE EXTINGUISHERS - (2) 10 lb. BC and (1) 10 lb. ABC - TO PRE-ENGINEERED MODULAR PANEL WALK-IN BOX (COOLER AND FREEZER). SITE ASSEMBLED. SEE EQUIPMENT PLAN A2.0 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 COMPLY WITH LOCAL FIRE CODE. LOCATE PER DIRECTION OF FIRE MARSHALL OR SHEAR WALL PLYWD IS SPECIFIED THE PLYWOOD SHALL SHALL BE CONTINUOUS FROM SILL PLATE TO TOP PLATE. SEE 4 & 11 / A6.5. LOCAL AUTHORIZING AGENT. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON (11) KNOX BOX ON SIDE WALL @ 5'-0" A.F.F. NON-BEARING INTERIOR PARTITIONS, BULKHEADS AND SOFFITS IS ACCEPTABLE, 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 NON-COMBUSTIBLE METAL STUD CONSTRUCTION WITH TYPE 'X' GYP BOARD BEHIND HOOD, EXTEND MIN. 18" PAST HOOD ON EACH SIDE MAINTAIN DIMENSIONS T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N.. NO SUBSTITUTIONS ALLOWED. FINISH AS SCHEDULED. SEE 12 /A6.5. 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. 13 ROOF LADDER. SEE DETAIL E/8.3 FINISH AS SCHEDULED. **FLOOR PLAN NOTES** PLAN KEYNOTES N.T.S. **WALL LEGEND** 

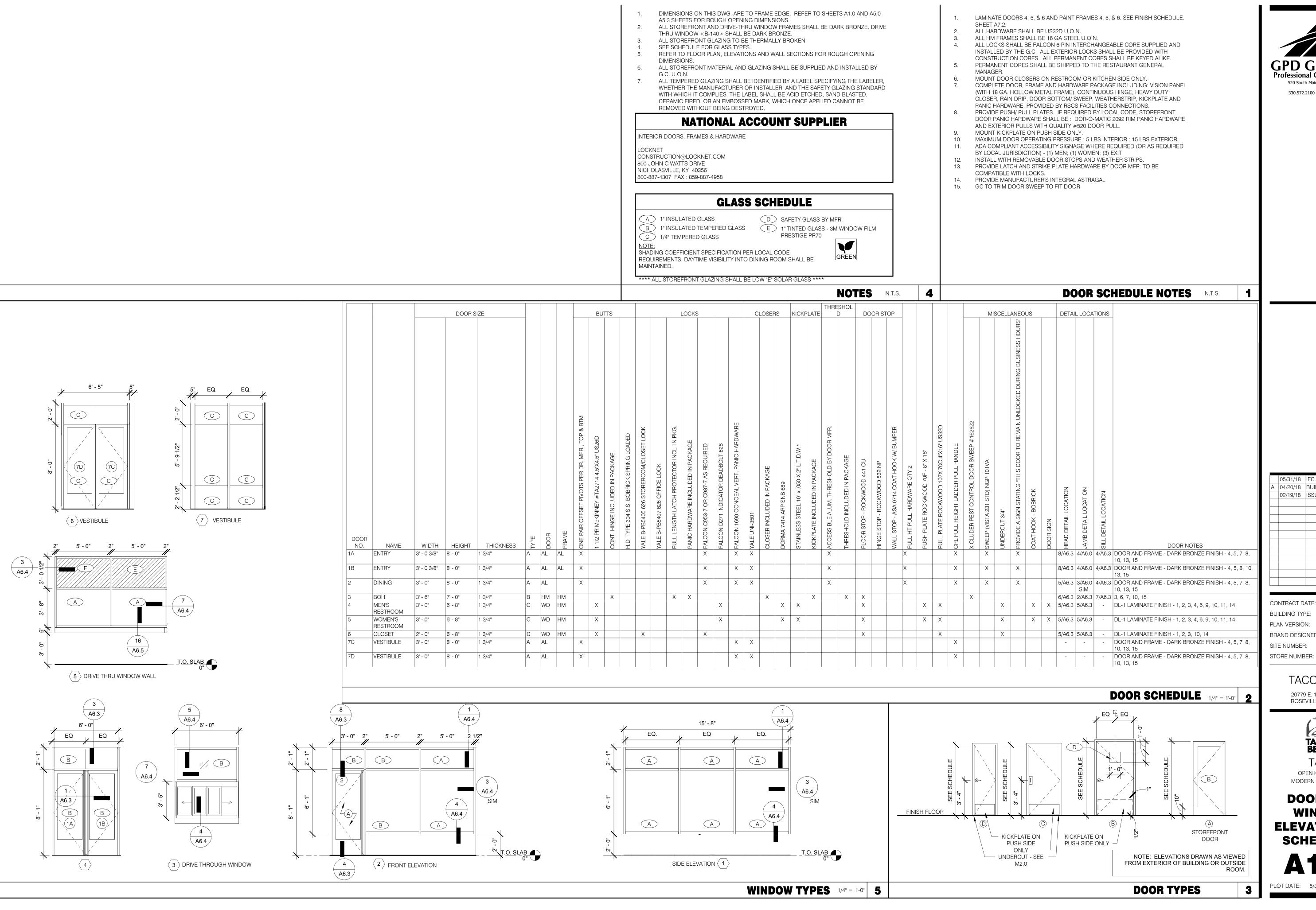
ALL DIMENSIONS ARE TO FACE OF STUD U.O.N. REFER TO FOUNDATION PLAN

FOR FACE OF CONC. DIMENSIONS.

STARTING POINT. ALL SUB-TRADES SHALL USE THIS POINT AS A BEGINNING LAY-OUT

(INSIDE FACE OF EXT. WALL STUDS).

14 FULL HEIGHT WALL TO EXTEND TO BOTTOM OF THE ROOF DECK



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

05/31/18 | IFC A 04/20/18 BUILDING COMMENTS 02/19/18 ISSUED FOR PERMIT

CONTRACT DATE: **BUILDING TYPE:** PLAN VERSION:

01.08.18

T40M-O

BRAND DESIGNER: SITE NUMBER: 312262/442877

TACO BELL

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



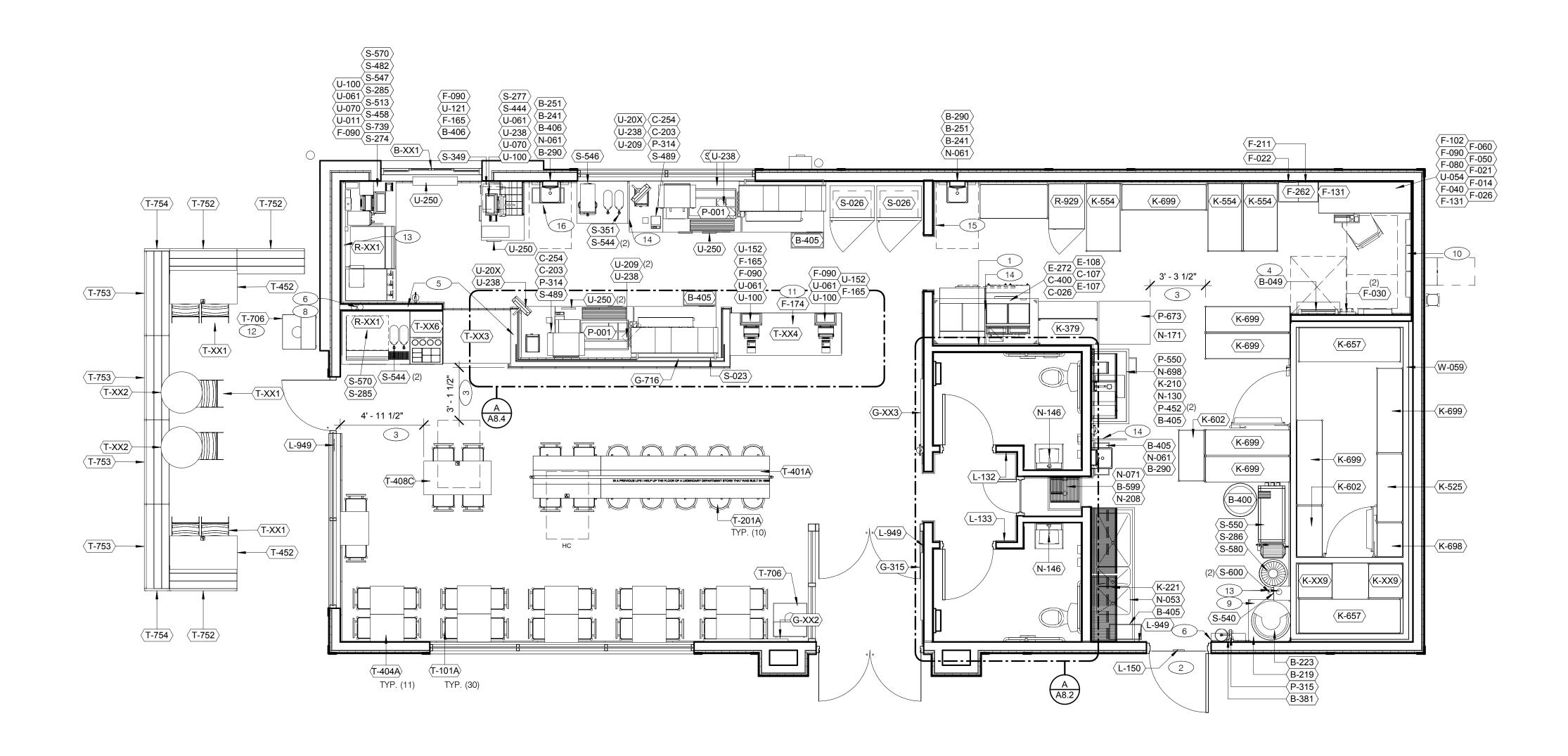
OPEN KITCHEN

MODERN EXPLORER

**DOOR AND WINDOW ELEVATIONS & SCHEDULES** 

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







											EQUIPMENT/ SEATING PLAN 1/4" = 1'-0"
SYM.	QTY.		ITEM	EQ#		ORDERING NO.					1 HOOD FIRE SUPPRESSION SYSTEM (ANSUL R-102 OR EQUAL)
-101A -201A -401A -404A -408C -706 -XX3 -XX4 -XX5 -XX6	30 10 1 11 1 1 1 1 1 1	CHAIR - WOOD SEAT/ METAL BACK  29" BARREL BARSTOOL  HUB TABLE VENEER (WHITE INLAY)  24" X 20"TABLE TOP AND ROUND BASE  24" X 48" TABLE TOP AND DOUBLE BASE - ADA (CENTER)  SINGLE TRASH ENCLOSURE  48" HAND OFF PLANE  POS COUNTER BY IDX  SAUCE AND SODA TABLE BY IDX  CONDIMENT CONSOLE		G-315 G-716 G-XX2 G-XX3	TACO TYPOGRAPHY 54"  V-LINE ARTWORK - CRUNCH WRAP  TBD  TBD	G-315-X-00-12X54 G-716-1-N/A-62.375X39.5 TBD TBD	FOH BOH TOTAL	732 SF 937 SF 1,669 SF	INTERIOR *EXTERIOR  *TOTAL  * SEATING COUN	40 12 52 ITS MAY VARY DEPENDING PTION SELECTED.	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
			FURNITURE PACKAGE E					46 L 25 L	PUIRED P F 4 F 2	ROVIDED 6 LF 5 LF 0 LF	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 SO	CHEDULE D		GENERAL	. INFORMATIO	ON N.T.S. C	EQUIP SEATING KEYNOTES N.T.S.

	05/31/18	IFC
Α	04/20/18	BUILDING COMMEN
	02/19/18	ISSUED FOR PERMIT

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

STORE NUMBER: 2016088.09

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



T40 OPEN KITCHEN MODERN EXPLORER

EQUIPMENT/ SEATING PLAN

**A2.0**PLOT DATE: 5/30/2018 3:16:35 PM

			E	EQUIPMENT SCHEDULE			
		INSTALL					
		C. INS			PLUMB		
NO.	QTY	Q.	S   ITEM DESCRIPTION	MFR. & MODEL NUMBER	립	GAS	REMARKS
	150						
-482	150 1						
3 CONTRACTO	OR BUILDIN	G ELEM	ENTS				
-049	1	Х	ROOF LADDER	PRECISION #FL184			15'-4" W/ 8" EXTENSION
3-050 3-219	1	X	ROOF HATCH WATER HEATER DUNNAGE RACK	PRECISION LADDER #PH-G2'-6"X3'-0"  NEW AGE INDUSTRIAL CORP., INC #98147	X	X	2'-6" X 3'-0" CLEAR OPENING
3-223	1	X	GAS WATER HEATER 97% HIGH EFFICIENCY 199 MBH, 100 GALLON		X	Х	
3-241 3-251	3	X	SOAP DISPENSER (WALL MOUNT) SANITIZER DISPENSER (WALL MOUNT)	KAY 3741 KAY 3741			
3-253	2	X	PAPER TOWEL DISPENSER / TRASH 12 GALLON MIRROR, 18" x 36"	BOBRICK #B-3944 BOBRICK #B-165-1836			
-265 -275	2	X	TOILET PAPER DISPENSER	BOBRICK #B-2890			
3-290 3-300	2	X	PAPER TOWEL DISPENSER  GRAB BAR 1-1/2" DIA. x 36" S.S. FIN.	BOBRICK #B-262 BOBRICK #B6806X36			
-305	2	X	GRAB BAR 1-1/2" DIA. x 42" S.S. FIN.	BOBRICK #B6806X42			
-310 -381	2	X	GRAB BAR VERTICAL 1-1/2" DIA. x 18" S.S. FIN. CO2 CARBON DIOXIDE SENSOR/WARNING	BOBRICK #B6806X18  AMPROBE CO2-200	X		
-400	1	X	WASTE BASKET - 32 GALLON	RUBBERMAID #2632 (GREY)	^		
-405 -406	5	X	WASTE BASKET WASTE BASKET	RUBBERMAID SLIM JIM #3541 (GREY) RUBBERMAID 28 QT #2956 (BLACK)			
i-410	1	X	SANITARY NAPKIN RECEPTACLE	RUBBERMAID #6140			
-599 -XX1	1	X	MOP SINK STATION  60"W X 36"H DRIVE-THRU WINDOW	ISS #WST806Y QUICKSERV			
	I			- COLONOLI IV			
COOKING EC C-026	QUIPMENT	Х	FRYER	PITCO #TB-SSHLV14-2/FD		X	
C-107	1	Х	RETHERMALIZER	PITCO #TB-SRTG14-2	ХХ	_	
C-203 C-254	2	X	SPLIT LID CLAM SHELL TOASTER CHEESE MELTER (SINGLE)	DOUGHPRO #SL15775TBA (STAR OPTIONAL)  A. J. ANTUNES # CM-100	X X		POWERED BY PRODUCTION LINE POWERED BY PRODUCTION LINE
C-400	1	X	COOK TIMER	FAST #TBZAP12	X		FOR THE RETHERMALIZER
EXHAUST HO	OODS/FIRE	QI IDD					
-107	1	X	STRATOVENT 6'-3" EXHAUST HOOD	STRATOVENT MODEL # TBG365OSVBD6FT3IN	X		HOOD IS PRE-PIPED FOR ANSUL SUPPRESSION
-108 -272	1	X	STRATOVENT 106"H X 111" L BACK SPLASH TIMER BRACKET	STRATOVENT MODEL #BACKSPLASH106X111FLA	X		
-212			TIMENDIACKET		^		
OFFICE/EMPI -014	LOYEE/MUS	SIC/MIS	C. FILE CABINET (2 DRAWER HIGH) 18" x 36" x 27"H	HON #582LL			IN OFFICE AREA. SEE SHEET A8.2
-014 -021	1	X	CHAIR - OFFICE	HON #4609AB10			IN OFFICE AREA. SEE SHEET A8.2
-022 -026	1	X	LICENSE FRAME 8" X 10" (BLACK)  DESK LAMP	CREATIVE PALETTE TB30  EURI# EL01E			IN OFFICE AREA. SEE SHEET A8.2 IN OFFICE AREA. SEE SHEET A8.2
-026	2	X	COAT HOOKS	ISS #HOOK246R2Y			IN OFFICE AREA. SEE SHEET A8.2
-040	1		OFFICE COMPUTER	POS PROVIDED	X		IN OFFICE AREA. SEE SHEET A8.2
-050 -060	1		CREDIT CARD SATELLITE ROUTER JUNCTION  MONITOR - OFFICE	YUM YUM			
-080	1 5		OFFICE PRINTER/COPIER/FAX/SCANNER	POS PROVIDED	X		
-090 -102	1		UPS (UN-INTERUPTABLE POWER SUPPLY)  MONEY COUNTER	POS PROVIDED TELLER MATE #TIXR3000	X		
-131	1 3	V	MUSIC SYSTEM DROP SAFE	MUZAK #6848 PERMA VAULT #PRO-10			
-165 -174	1	X	SAFE WITH TOUCH SCREEN CONTROLS	BRINKS TIDEL SENTINAL SIDE VAULT	X		
-211	1	X	CLOCK EMPLOYEE LOCKERS - 6 COUNT	B&B SYSTEMS #02100100			IN OFFICE AREA. SEE SHEET A8.2
-262 -270	1	X	FIRST AID KIT	12 X 15 X 72 GREY PROSTAT FIRST AID LLC #2617			IN OFFICE AREA. SEE SHEET A8.2
MODIZOTATIO		/INIC /CA	DTO			•	
WORKSTATIC -210	1	X	PREP SINK WORKSTATION 50" TRACK	ISS #WST255E			
-221 -379	1	Х	3 COMP SINK WORKSTATION 96" TRACK FRY WORKSTATION 42"W x 30"D x 75"H	ISS #DS-1F ISS # WST1710E			
-579 -525	1		48X18 5-TIER RACK SHELVING	ISS #TBD			
(-554 (-602	4 2		48X24 5-TIER RACK SHELVING 36X18 5-TIER RACK SHELVING	ISS #TBD ISS #TBD			
i-657	2		72X24 5-TIER RACK SHELVING	ISS #TBD			
(-698 (-699	1		24X18 5-TIER RACK SHELVING 60X18 5-TIER RACK SHELVING	ISS #TBD ISS #TBD			
-699 -750	1	X	WATER SOFTENER UNIT HOLDER 14"X30"X9"	ISS #WATRK230Y			OPTIONAL INSTALL
-XX9	2		24X24 5-TIER RACK SHELVING	ISS #TBD			
LIGHTING/SIC	GNAGE/ME	NUBOA	RDS				
-043	1		INTERIOR MENU BOARD DISPLAYS SIGN- TACO BELL RESTROOM WOMEN WITH BRAILLE 10"X6.5"	STRATACACHE LG 43" DISPLAY			
-132 -133	1		SIGN- TACO BELL RESTROOM WOMEN WITH BRAILLE 10"X6.5"  SIGN- TACO BELL RESTROOM MEN WITH BRAILLE 10"X6.5"				
-150 -949	1 3	X	SECURITY DOOR DANGER SIGN NO SMOKING SIGN	ADVERCO#ADVCUSTOM  VOLLRATH #4513			ORDERED DIRECT FROM YRFS
- <del>94</del> 9	<u>ن</u>	^	INO DIVIDINIO DIGIN	VOLLIMIN #4010			
SINKS/DISHV -053	WASHERS	X	3-COMP POWER SOAK 95"L x 31"D (L TO R)	METCRAFT #TBD	x x		W/ PRE-RINSE, CLICK & CLEAN SYSTEM & (2) T & SB-24
	1		, ,				FAUCETS OPTIONAL - N-706, N-075, N-076, N-077, N-078
-062 -071	3	X	HAND SINK WITH FAUCET  MOP SINK FAUCET	AERO #HSK-A T&S #B-2465	X		
-130	1	X	1 COMP SINK FAUCET	T&S FAUCET B-2465	Х		
-146 -171	2	X	FAUCET (RESTROOMS)  1 COMP. SINK WASTE DRAIN LEVER	SLOAN # SF-2350 T&S FAUCET S-20	X		FRANCHISE OPTION N-164 T&S B-2460 2" TWIST TYPE, FOR N-698
l-208	1	Х	MOP SINK 24"X24" FLOOR MOUNT SINK	AERO MANUF. CO., INC. #3MP-2121-6/1P	Х		INCLUDES (2) 24"X36" WALL PANELS
l-698	1	Χ	1 COMP PREP SINK 53"W X 27"D X 35 1/2"H	AERO #2F1211617LR	Х		
FOOD PREPA	ARATION						
-001 -002	1	X	V-LINE V-LINE				
-314	2	Х	WATER PRESSURE REGULATOR KIT	A.J. ANTUNES & CO #7000314	X		FOR PRODUCTION LINE
-315 -417	1	X	REVERSE OSMOSIS SYSTEM  8 CHANNEL TIMER	CUNO #FSTM-07 FAST # KTRACK 2X4 TB	X		REQUIRES FLOOR SINK ALTERNATE- PRINCE CASTLE # 755HM8TB
?-417 ?-452	2	X	HOT WATER SYSTEM	BUNN-MACHINE #43600.0014	X X		ALIENIANIE-I INNOC OMOTEC # 1000NOTO
P-550	1	X	KNIFE RACK	EDLUND #KR-699			

ISS #WST908YA

WORKTABLE, 36" x 30"

				E	EQUIPMENT SCHEDULE			
NO.	QTY	G.C. INSTALL	ΛD	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMB	ELECT	S REMARKS
PATIO								
-452	2			EXTERIOR TUCCI UMBRELLA 10X10				MEDIUM
Г-706	1			SINGLE TRASH RECEPTACLE	FURNITURE DESIGN STUDIOS			MEDIUM
-752 - 752	3		-	48" FENCH				MEDIUM
-753 -754	2			60" FENCH 16" RAILING				MEDIUM MEDIUM
-73 <del>4</del> -XX1	6			VEKINAS SIDE CHAIR BY KIAN				MEDIUM
-XX2	2			INTERLACE DINING TABLE BY KIAN				MEDIUM
REFRIGERATION	ON							
R-929	1	X		FULL HT FREEZER (RH HINGED)	DELFIELD #GBF1P-SH		X	OPTIONAL: R-038 U/C FREEZER - DELFIELD #407CA-DHL-TB3
R-XX1	2	Х		REMOTE ICE CUBE MACHINE	MANITOWOC	X	Х	
<u></u>	<u></u>							
SERVING/DRI\	VE-THRU		1	I	In the second se	ı		
	2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		TEA URNS	BUNN TDO-N-3.5			MOUNT TO PRODUCTION OF
6-023 6-024	1	X	+	WARMER EVO TACO TOWER TB 208V - R TO L UNIT	CARTER HOFFMAN # EVOL208  CARTER HOFFMAN # EVOR208		X	MOUNT TO PRODUCTION LINE
5-024 5-026	2	\ У	+	WARMER EVO TACO TOWER TB 208V - L TO R UNIT HEAT CABINET - FULL HEIGHT - (1) RH	CRESCOR #H137S27D1TB		X	MOUNT TO PRODUCTION LINE
S-026 S-204	1	X		DRIVE-THRU TIMER SYSTEM	HME #C11422TB		X	
S-254	1			CONDIMENT RACK	PRONTO PRODUCTS #CHPWO446			
S-274	1	X		61"(W) X 36"(D) DRIVE-THRU DRINK / POS TABLE	SPG WST1242YA			
S-284	1	X		BEVERAGE DISPENSER		X	X	
S-285	1	Х		BEVERAGE DISPENSER		Х	Х	OR CORNELIUS IDC255 PROGATE 5 (BY PEPSI)
S-286	1	X		WATER FILTER SYSTEM	SHURFLO #WB6-M3-22-003	X	Х	FRANCHISEES CAN USE SELECTO #TB5/620-5
S-349 / S-277	1			PICK-UP DRIVE-THRU COUNTER (30" x 42") WITH 24" CONDIMENT STAND	LPSPG #WST 1344Y			
S-351	1			30"(W) X 36"(D) DRIVE-THRU DRINK TABLE	SPG WST1704Y			
S-444	1			NAPKIN DISPENSER	SCA TISSUE #5555100			
S-458	1	X		24"(W) X 36"(D) FRUTISTA TABLE	SPG WST1343Y			
S-482	2			DIGITAL SCALE	EDLUND DS-10			FRANCHISEES CAN USE HOSHISAKI KMS-1230
S-489 S-513	2			ICE MAKER PLACED ON TOP OF DRINK MACHINE	MANITOWOC # IY-1474C		X	WITH REMOTE MOUNTED CONDENSORS
S-540	1	X		PEPSI BOOSTER TANK	IVIANITOWOC # 11-14/4C		X	SEE SCOPE OF WORK (PEPSI)
S-544	2			TEA URNS	BUNN TDO-N-3.5			3.5 GAL NARROW ICED BEVERAGE DISPENSER
S-546	1	X		ICED TEA BREWER	TETLEY TB3Q	X	X	olo di le la
G-547	1			BUNN POD BREWER	MY CAFE AP AUTOPOD # 42300.0008		X	
S-550	1			BAG-IN-BOX SYRUP RACK	CORNELIUS/REMCOR BNB12B8P	Х		FLO-3REG-2CRB (BY PEPSI)
G-570	2			CARBONATOR	CORNELIUS/REMCOR	X	X	SHELF MOUNTED BELOW EACH DRINK (BY PEPSI)
S-580	1			CO2 (BULK) TANK	MVE #11805373			
S-600	2	X		BUNDLED SYRUP LINES	CORNELIUS/REMCOR TUBE BUNDLE	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
S-739	1	X		FROZEN BEVERAGE DISPENSER	FBD #1273610021		X	
G-740 G-XX2	1	Y		REMOTE CONDENSOR FOR FROZEN BEVERAGE DISPENSER FLY FAN	FBD #12-3003-0006 TBD	X	^	
-///_	1			I LI I AIN	טטון			1
J SECURITY/CC	MM./FIRF	PROTS	S/POS					
J-011	1		,. 55	BASE STATION - D/T COMM. SYSTEM	HME-HEADSET SYSTEM,FIVE,#C40000-5-HS3-TB			
J-20X	2	1		VERTICAL MONITOR SUPPORT ARM				
J-052	1	X		SECURITY SYSTEM	ADT #3BCZTB		Х	
J-054	1	Х		CCTV DVR & MONITOR	MARTCO - NUVICO DVR		Х	
J-061	4		-	CREDIT CARD READER (VSAT)			X	
J-070	2			RECEIPT PRINTER	IBM, NCR & PAR		X	
J-100	4		+	POS/ORDER ENTRY TERMINAL	IBM, NCR & PAR		X	CEE COOPE OF WORK
l-121 l-152	3			CASH DRAWER BRACKETS  CASH DRAWER	IBM, NCR & PAR IBM, NCR & PAR		+	SEE SCOPE OF WORK
J-152 J-209	2		+	EVO MONITOR SUPPORT ARM	FACILITIES SOLUTIONS #SW550340-24		++	
J-209 J-238	6			KITCHEN MONITOR	IBM, NCR & PAR		X	
J-250 J-250	6	+	+	BUMP BAR	IBM, NCR & PAR			WITH MOUNTING PLATE
					- 1 · · · · · · · · · · · · · · · · · ·		1	1
WWALK-IN COC	OLERS/FRE	EZERS	S					
V-059	1	Χ		WALK-IN COOLER/FREEZER	ICS/NORLAKE	X	Х	
<del></del>								



	05/31/18	IFC
Α	04/20/18	BUILDING COMMENTS
	02/19/18	ISSUED FOR PERMIT

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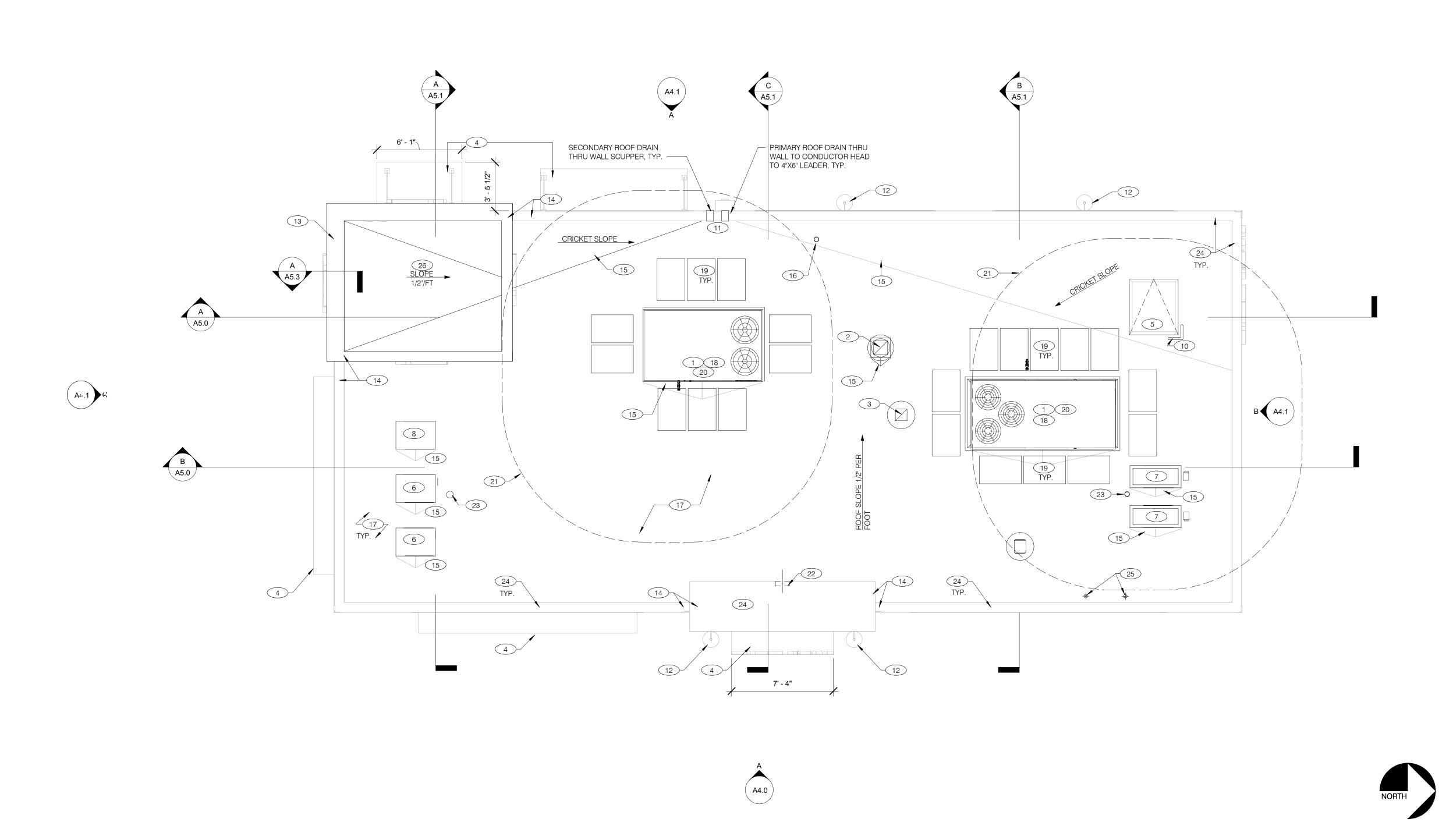
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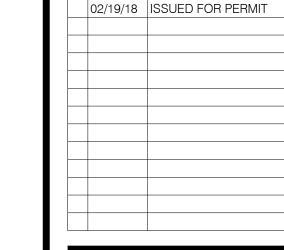
> TACO BELL.

T40 OPEN KITCHEN MODERN EXPLORER

EQUIPMENT SCHEDULE

**A2.1** 





05/31/18 IFC

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 T40M-O BUILDING TYPE: DEC 2017 PLAN VERSION: BRAND DESIGNER:

SITE NUMBER: 312262/442877 STORE NUMBER: 2016088.09

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

TACO BELL

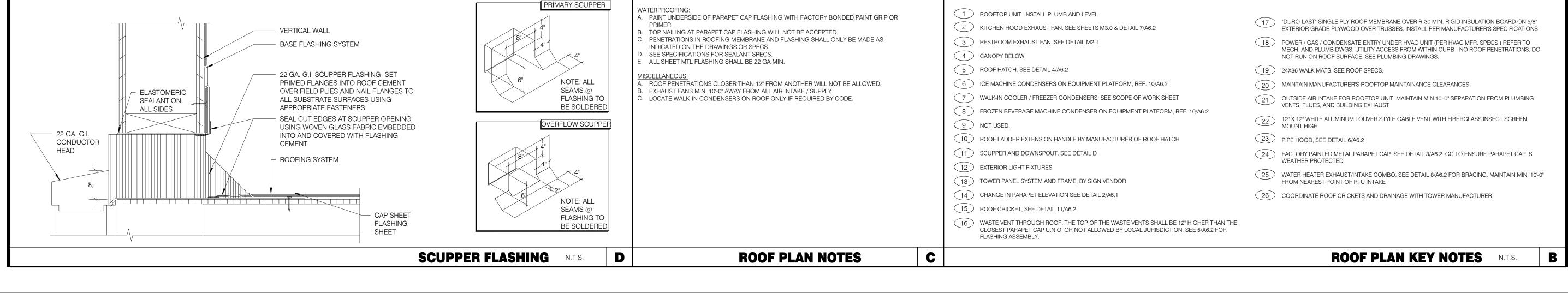
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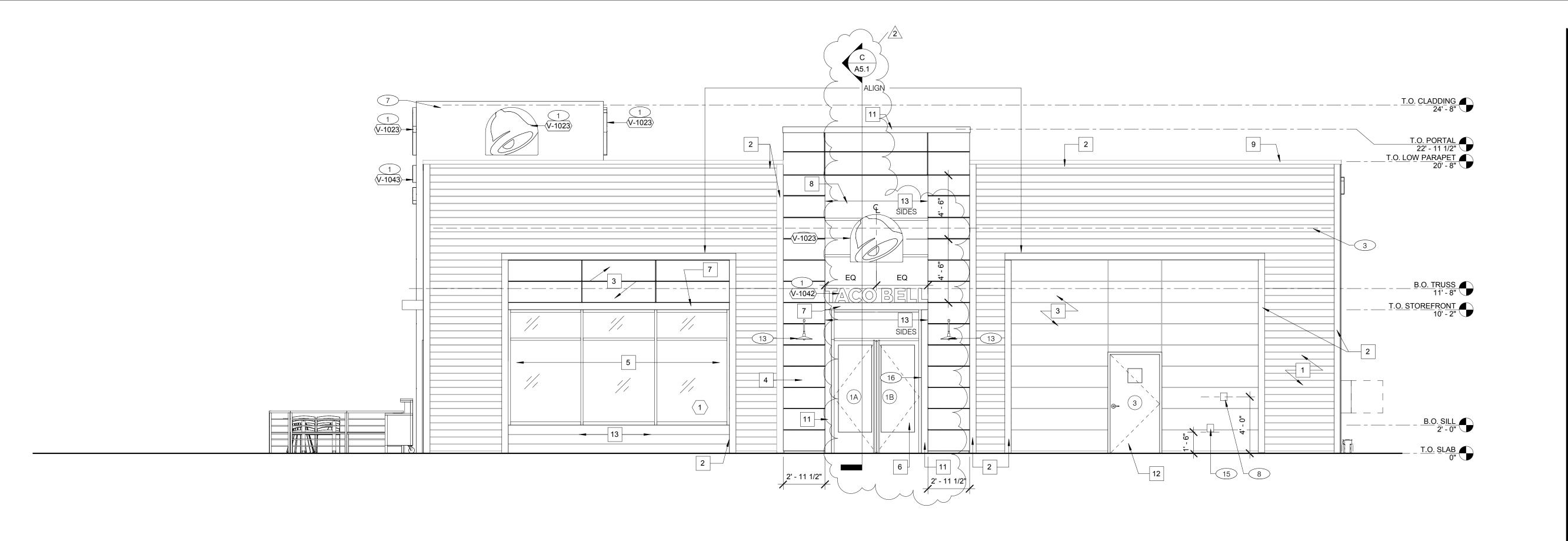


OPEN KITCHEN

MODERN EXPLORER

**ROOF PLAN** 





**SOUTH ELEVATION** 1/4" = 1'-0" QTY ITEM DESCRIPTION 1 BUILDING SIGN, BY SIGN VENDOR. REQUIRES ELECTRICAL. SEE ELECTRICAL PLANS SWINGING BELL - PURPLE LOGO - FACE LIT - 3'6" X 3'10"\_ A. SEE SHT A1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS. TB 12" CHANNEL LETTER WHITE - LINEAR 2 |06/14/18 |BULLETIN 2 2 DRIVE THRU WINDOW. SEE SHEET A1.0 AND A1.1. 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 TB 14" CHANNEL LETTER WHITE - (3) STACKED AND (1) LINEAR A 04/20/18 BUILDING COMMENTS 3 DASHED LINE INDICATES ROOF LINE BEYOND. 02/19/18 ISSUED FOR PERMIT C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING & CANOPY. 4 Julia Bollard. SEE CIVIL DRAWINGS. "CRITICAL" DIMENSIONS: 5 GAS METER A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SINAGE/ BUILDING ELEMENTS DIMENSIONS. 8 NOT USED. 7 TOWER AND INTEGRAL SIGNAGE BY GC. GC, TO COORDINATE BLOCKING LOCATIONS. NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE 8 CO2 FILLER VALVE & COVER. SEE DETAIL 5/A6.1 FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLAION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS. 9 ELECTRIC METER SIGNAGE N.T.S GENERAL NOTES N.T.S E 10 NOT USED. 11 CONCRETE CURB. CONTRACT DATE: 01.08.18 T40M-O BUILDING TYPE: 12 SCUPPER, COLLECTOR, AND VERTICAL DOWNSPOUT 6" MIN. PAINT TO MATCH 1 DEC 2017 PLAN VERSION: 13 EXTERIOR LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS BRAND DESIGNER: 14 FLASHING AT STOREFRONT PER G.C. TO MATCH STOREFRONT FINISH. SEE 8/A6.4 SITE NUMBER: 312262/442877

SYMBOL	AREA	MANUFACTURER	MATERIAL SPEC	COLOR	ALTERNATE MFR.	ALTERNATE MATERIAL SPEC	ALTERNATE MATERIAL COLOR	CONTACT INF	FORMATION
1	EXTERIOR FIBER CEMENT PANELS	JAMES HARDIE	ARTISAN V RUSTIC	PAINTED SW7045 INTELLECTUAL GRAY	NICHIHA	ROUGH SAWN	"SMOKE"	NICHIHA:	MATT STEPHENSON
2	EXTERIOR FIBER CEMENT TRIM BOARDS	JAMES HARDIE	HARDIETRIM 4/4 SMOOTH	PAINTED SW7048  URBANE BRONZE	NICHIHA	NICHITRIM	SW7048 URBANE BRONZE		770-789-8228 MSTEPHENSON@NICHIHA.COM
3	EXTERIOR FIBER CEMENT PANELS	JAMES HARDIE	REVEAL PANEL SYSTEM	PAINTED SW7048 URBANE BRONZE	NICHIHA	ILLUMINATION	SW7048 URBANE BRONZE	HARDIE:	LEVI STAUFFER
4	EXTERIOR FIBER CEMENT PANELS - ENTRY	JAMES HARDIE	REVEAL PANEL SYSTEM	PAINTED SW7048 URBANE BRONZE	NICHIHA	ILLUMINATION	SW7048 URBANE BRONZE		562-243-8974 LEVI.STAUFFER@JAMESHARDIE.COM
5	STOREFRONT WINDOWS	OLD CASTLE	SERIES 3000 - CENTER SET	DK BRONZE	-	-	-		
6	STOREFRONT DOORS	OLD CASTLE	SERIES 500 - WIDE STILE	DK BRONZE	-	-	-		
7	METAL CANOPIES	BY SIGNAGE VENDOR		DARK BRONZE TO MATCH STOREFRON	<u>-</u>	RAL	RAL	BY SIGN VENI	DOR
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		DARK BRONZE TO MATCH STOREFRON	r -	-	-		
12	EXTERIOR HOLLOW METAL SERVICE DOOR	<del>-</del>		SW7048 URBANE BRONZE	-	-	-		
13	LOCAL RECLAIMED WOOD	BY GC	BARNWOOD	AS-IS / GRAY	-	-	-		OURCED LOCALLY BY GC - MIN. 3/4" THICK X 8" WIDE PLANKS ANDOM LENGTHS COLOR RANGE - WHITE - DK GRAY

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

STORE NUMBER: 2016088.09

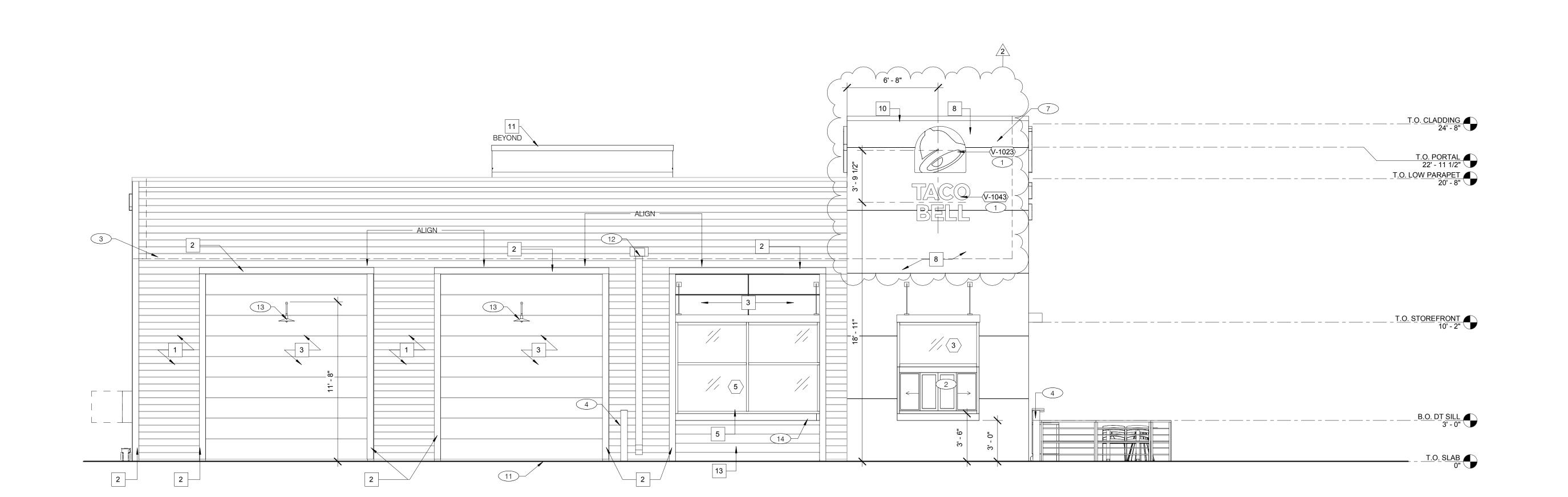
> TACO BELL 20779 E. 13 MILE RD. ROSEVILLE, MI 48066

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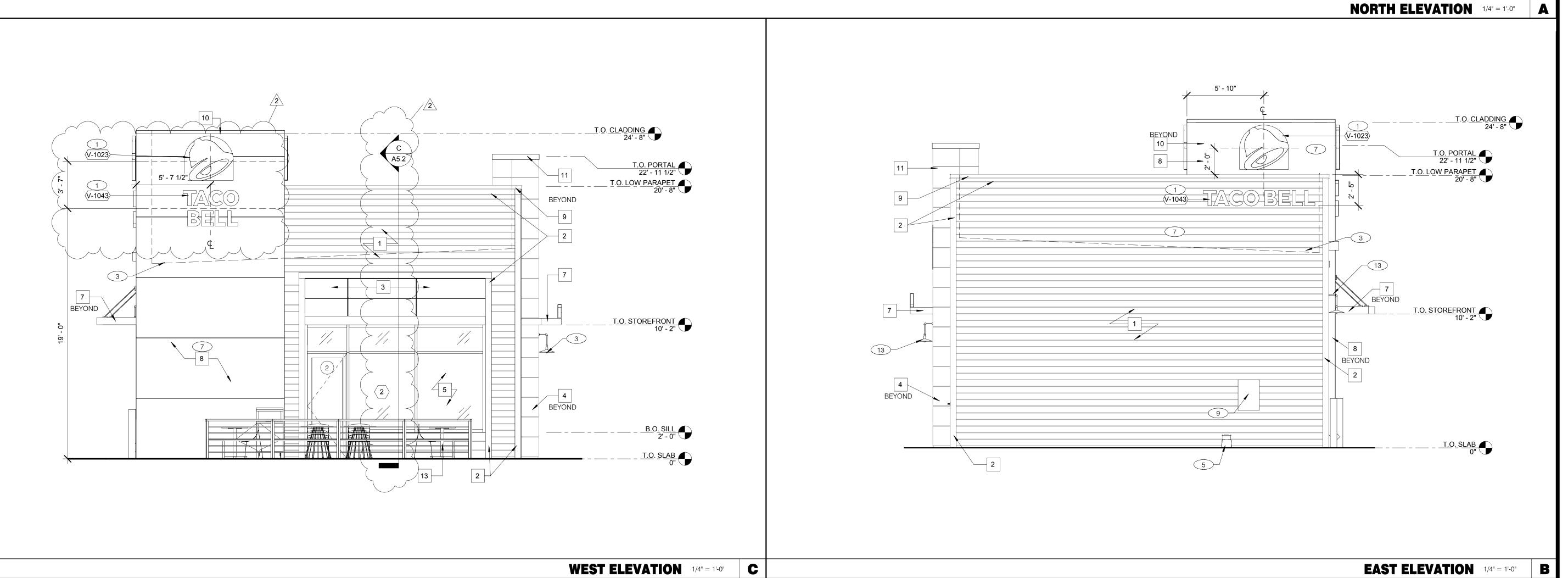
OPEN KITCHEN MODERN EXPLORER

**EXTERIOR ELEVATIONS** 

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







2	06/14/18	BULLETIN 2
	05/31/18	IFC
Α	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: 312262/442877
STORE NUMBER: 2016088.09

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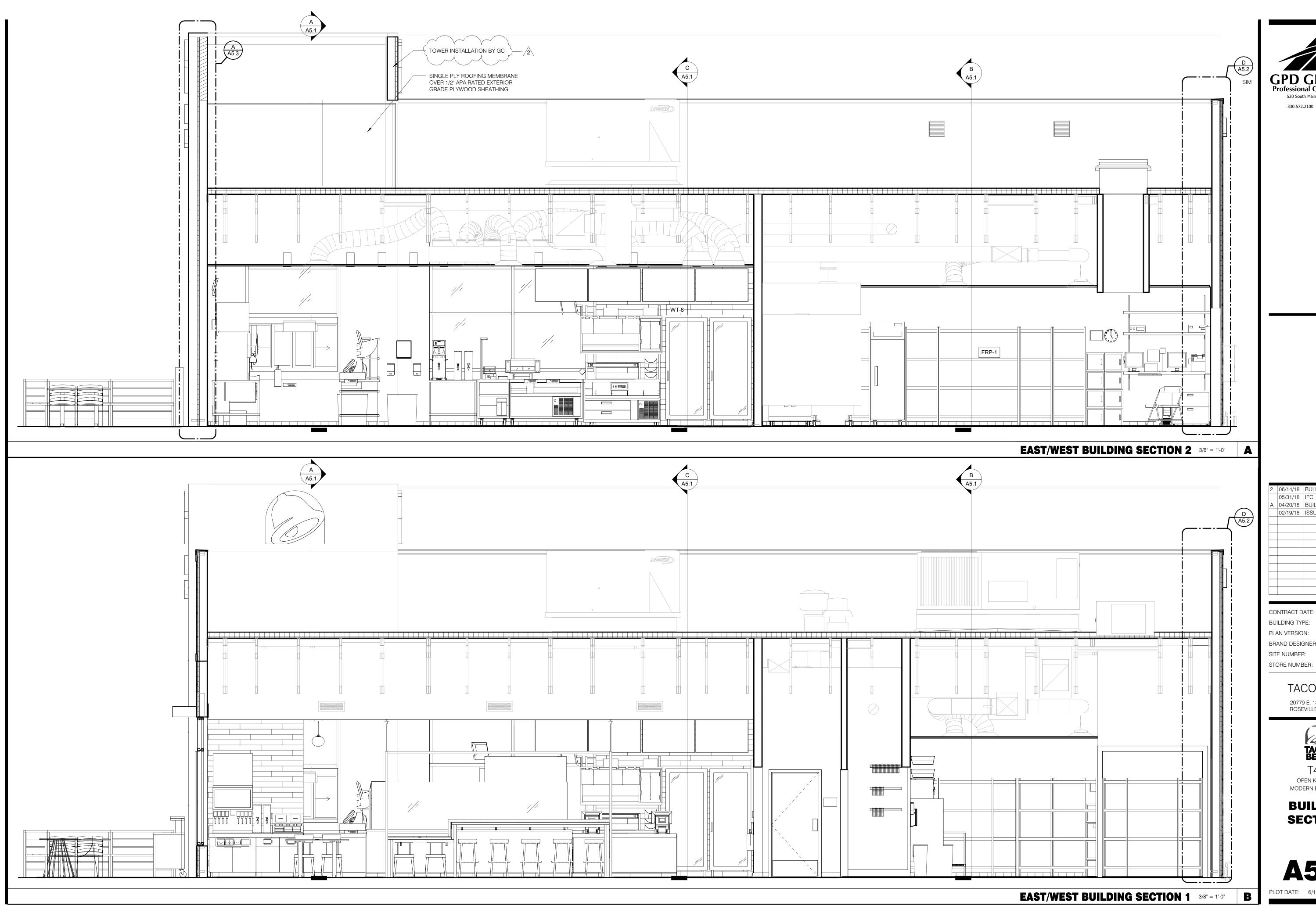
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T40 OPEN KITCHEN MODERN EXPLORER

EXTERIOR ELEVATIONS

**A4.1** 

PLOT DATE: 6/18/2018 3:41:27 PM





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

CONTRACT DATE: BUILDING TYPE: PLAN VERSION: BRAND DESIGNER: SITE NUMBER:

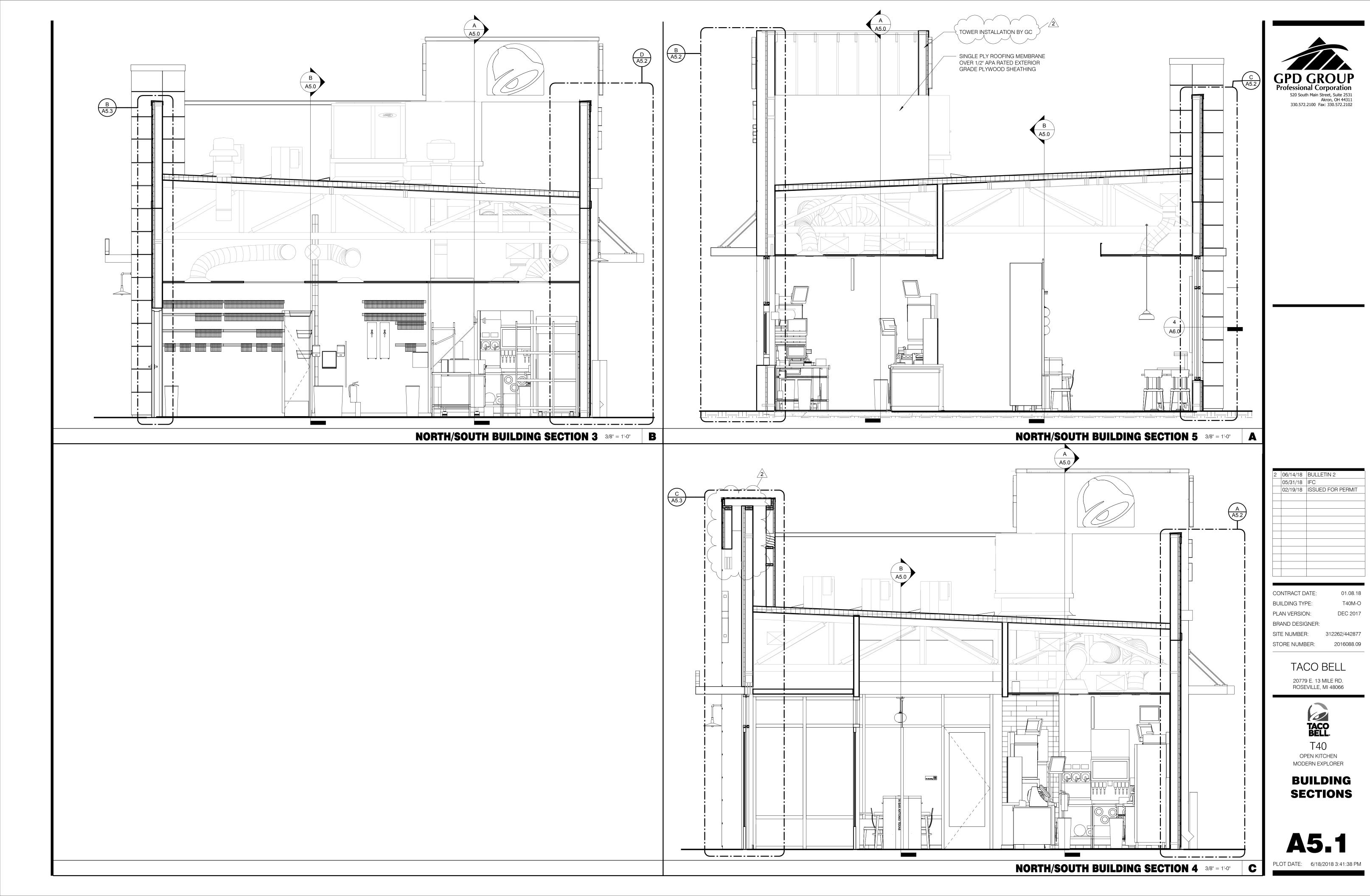
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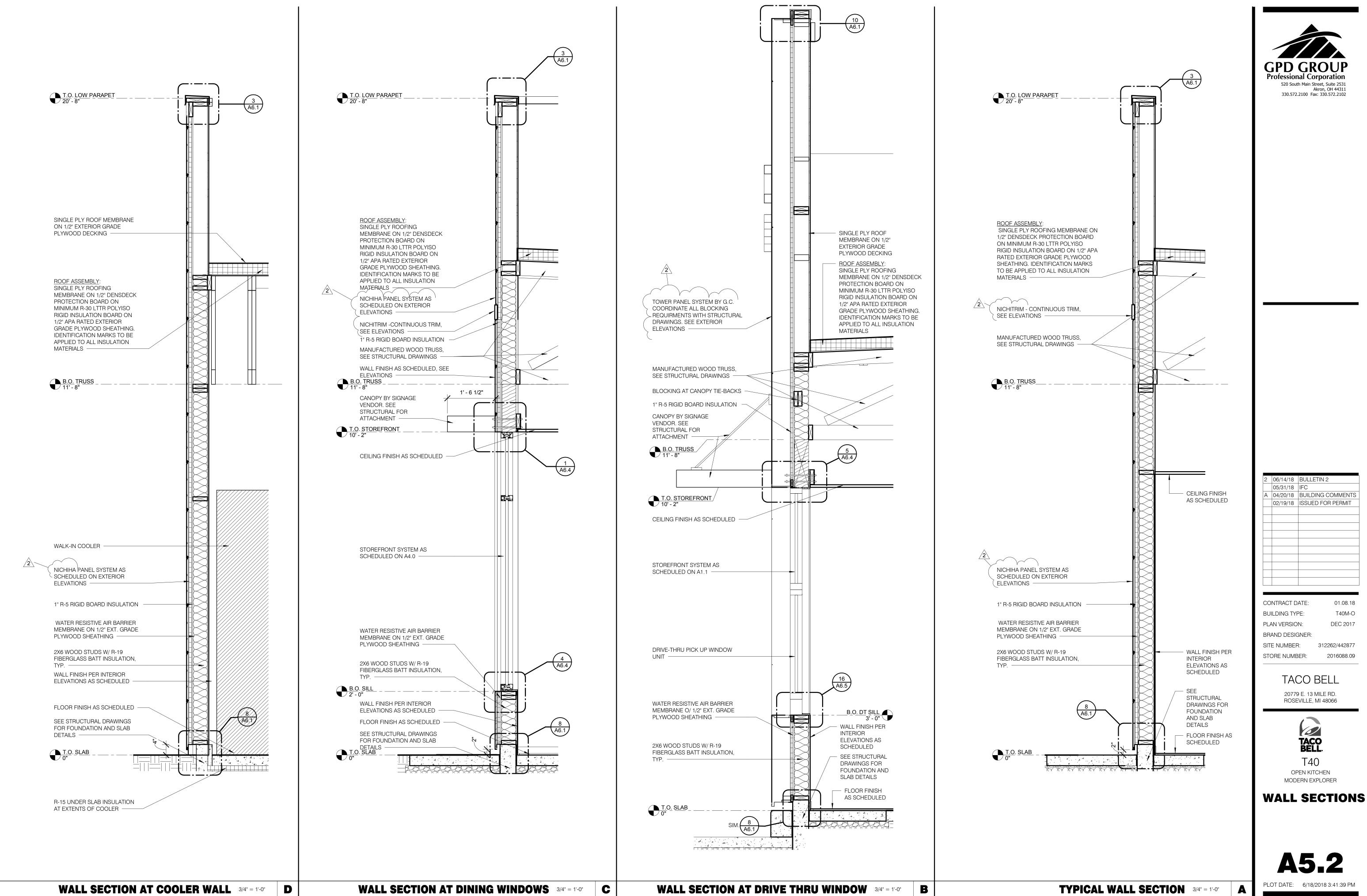
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OPEN KITCHEN MODERN EXPLORER

**BUILDING SECTIONS** 





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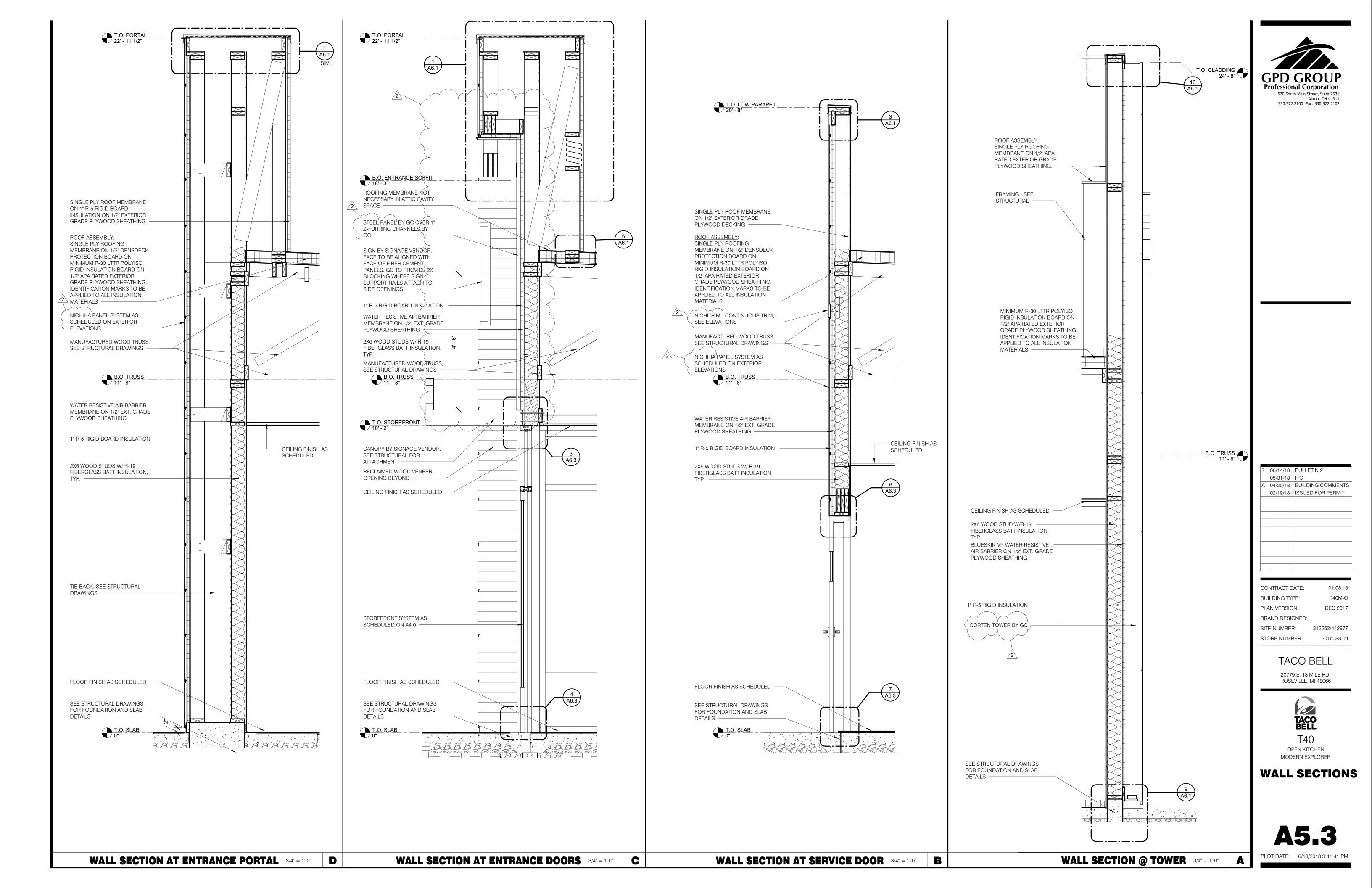
01.08.18

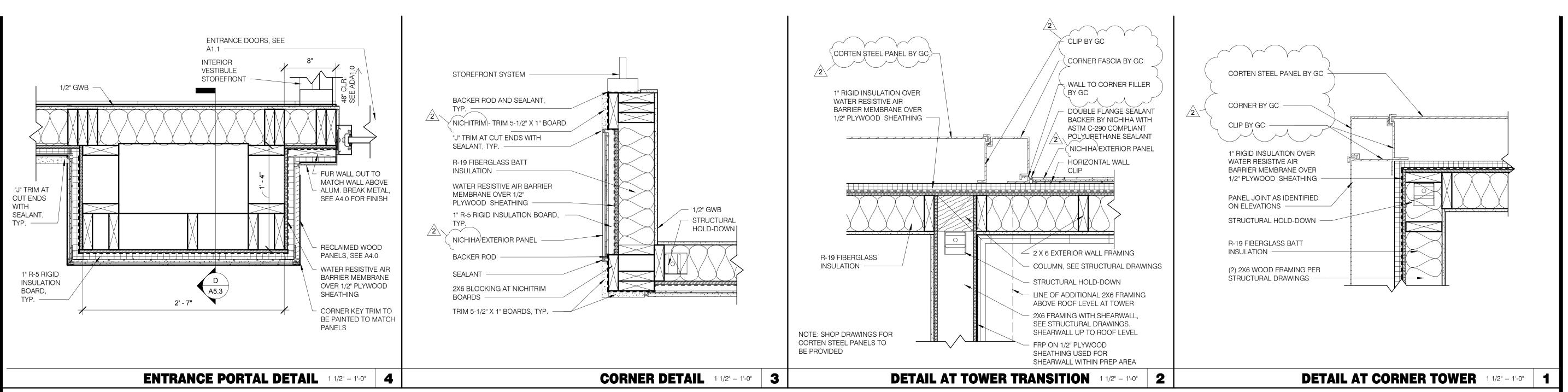
T40M-O

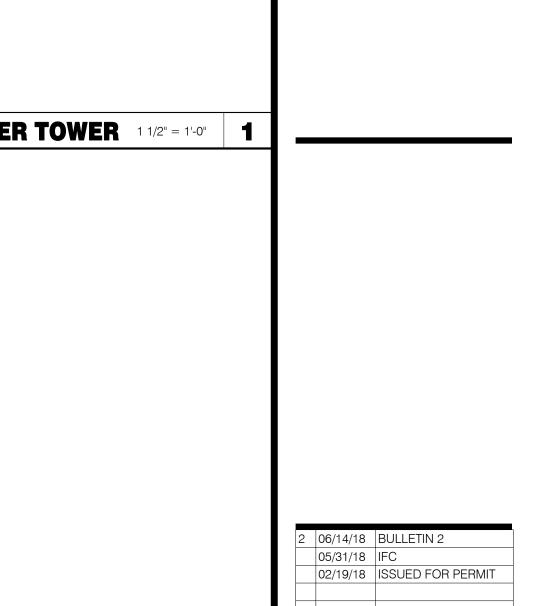
DEC 2017

312262/442877

2016088.09







CONTRACT DATE: 01.08.18

BUILDING TYPE: T40M-O

PLAN VERSION: DEC 2017

BRAND DESIGNER:

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STORE NUMBER:

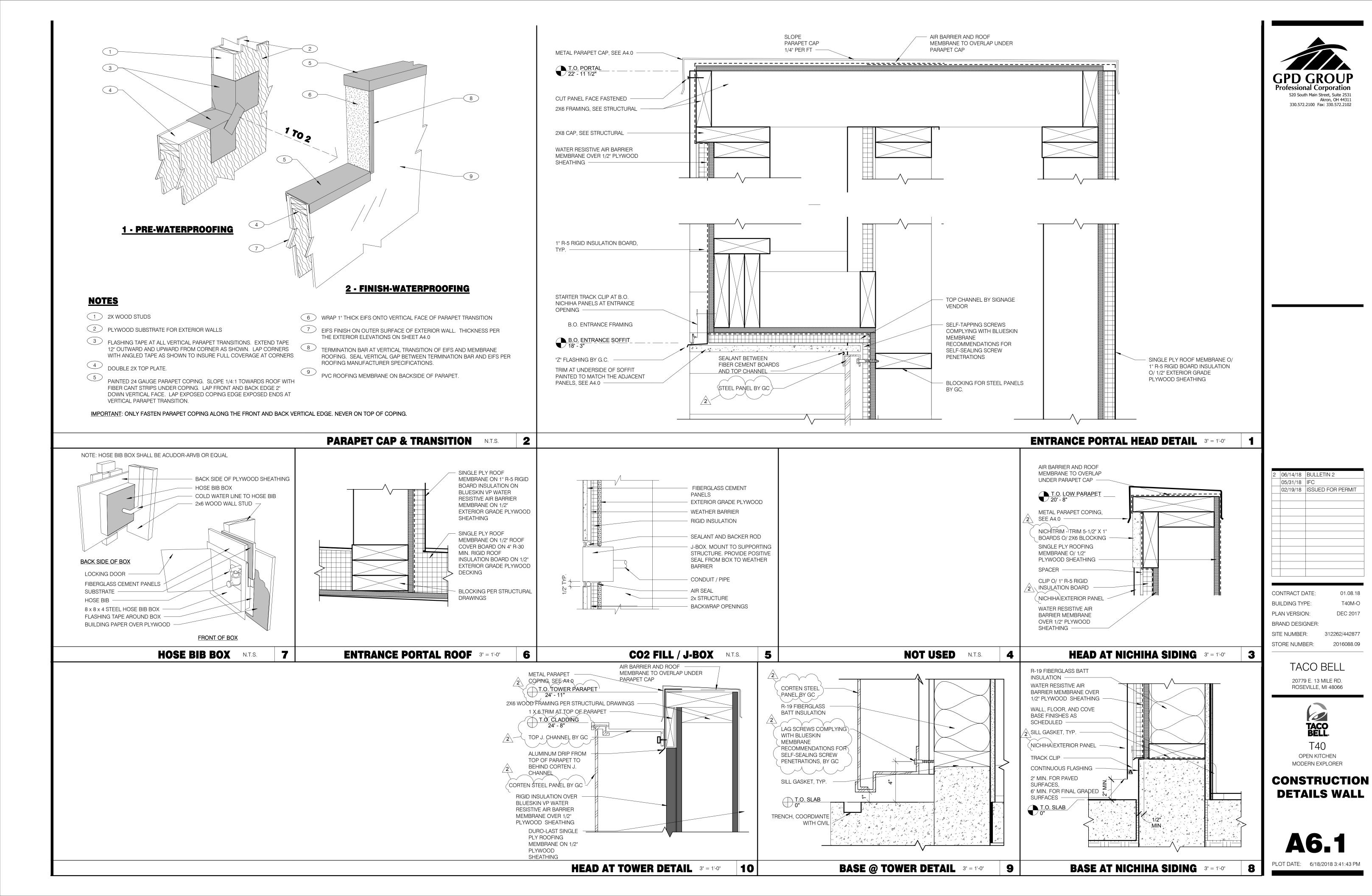
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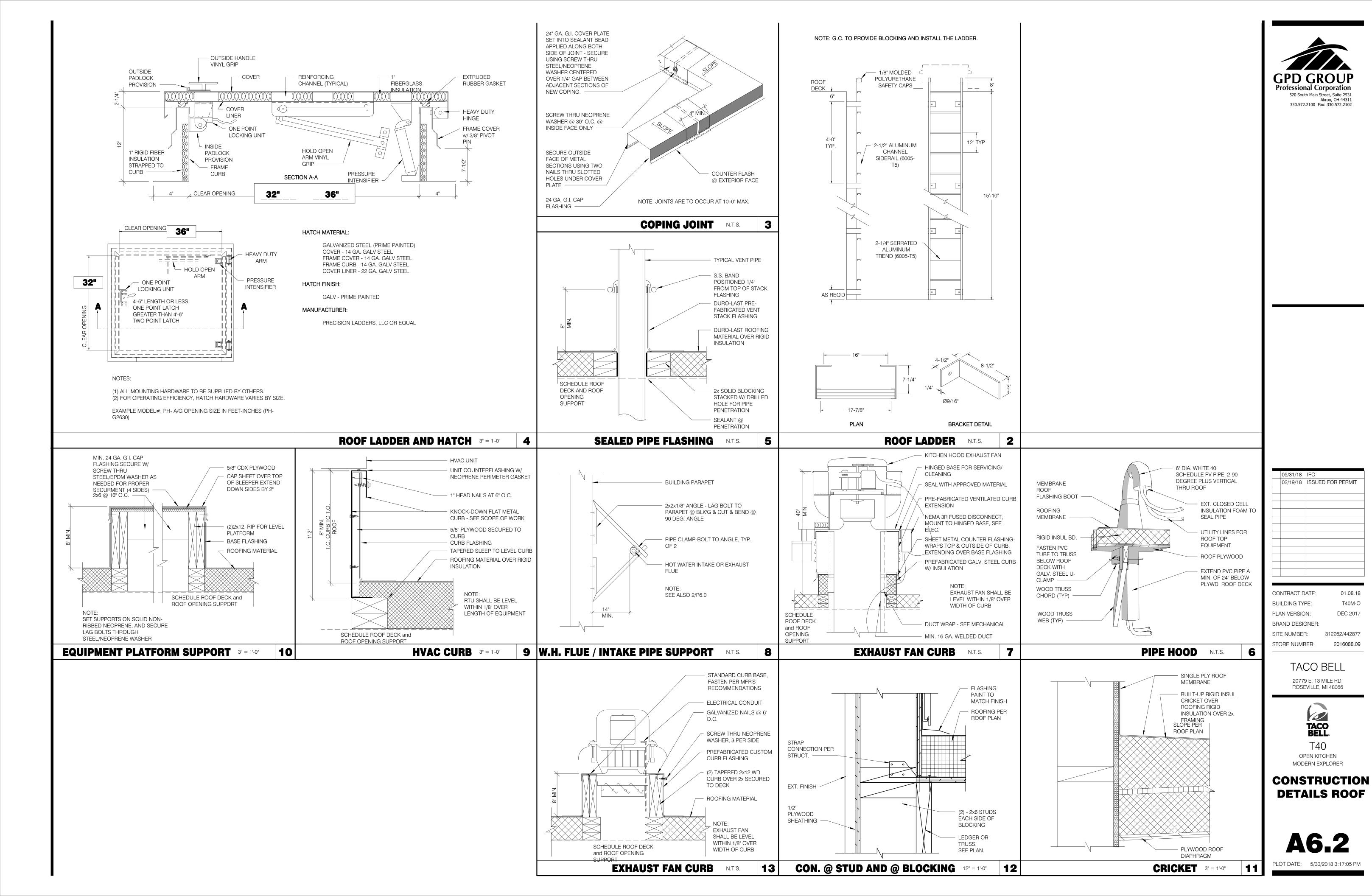


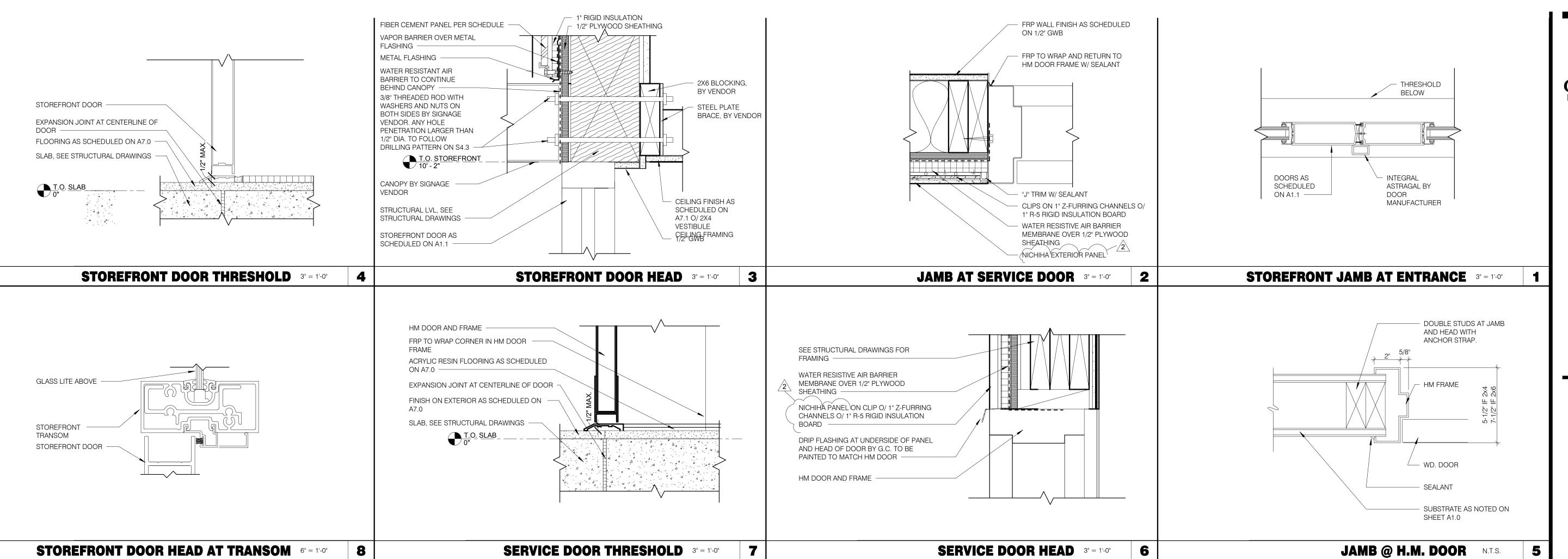
T40 OPEN KITCHEN MODERN EXPLORER

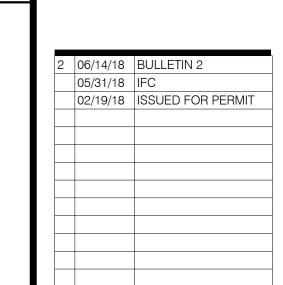
## CONSTRUCTION PLAN DETAILS

**A6.0** 









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BUILDING TYPE: T40M-O

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SITE NUMBER: STORE NUMBER:

TACO BELL

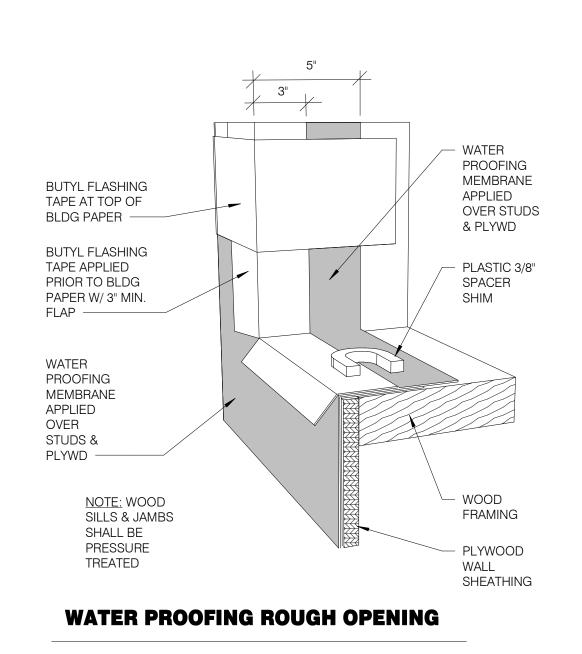
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14U OPEN KITCHEN MODERN EXPLORER

## CONSTRUCTION DETAILS DOOR

**A6.3** 



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

> EXTEND FACE OF ALUM ANGLE FOR CAULK &

> > END DAM @

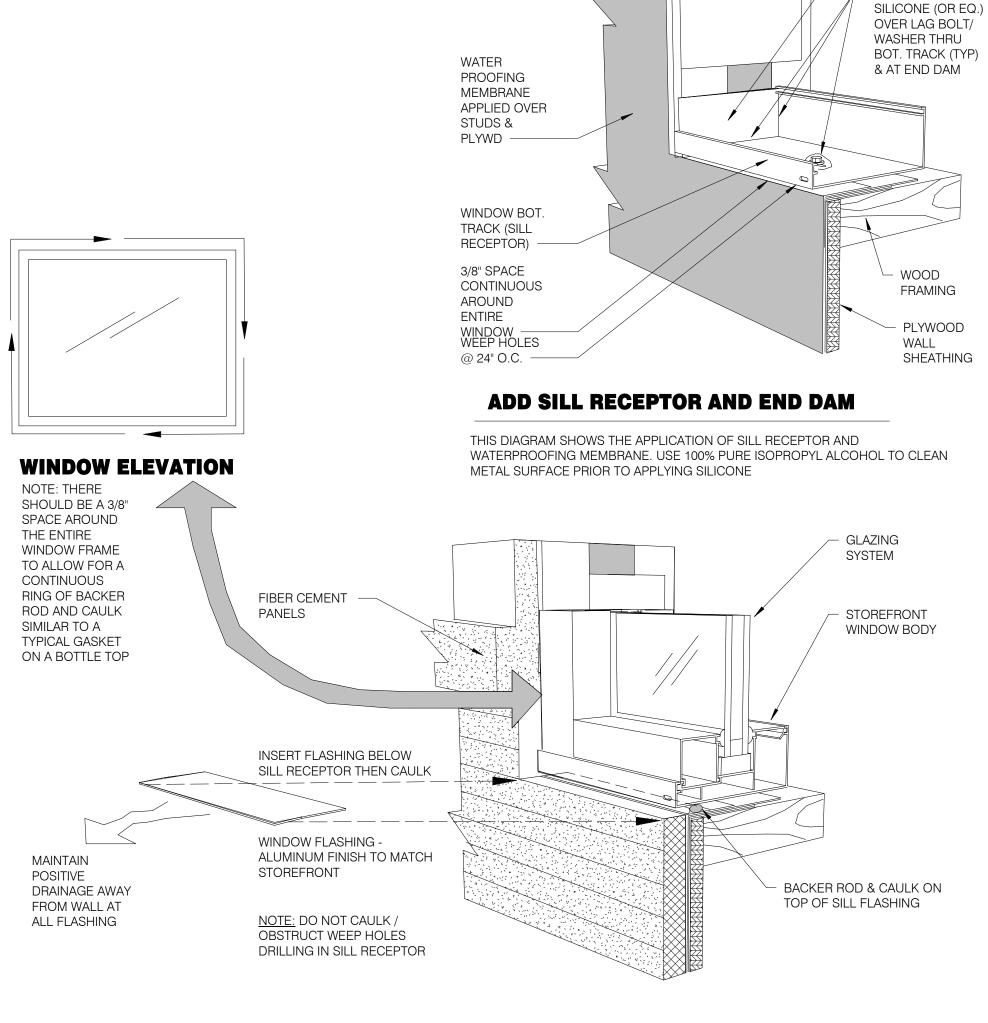
BOT. TRACK

795 DOW CORNING

TYPICAL WINDOW WALL WATER PROOFING N.T.S.

WINDOW

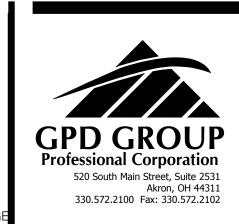
BACKER ROD



#### **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

CLIPS -INSULATION - {NICHITRIM - 1"x5-1/2" TRIM ; SINGLE FLANGE 1/2" GWB SEALANT BACKER STOREFRONT SILL AT DINING 3" = 1'-0" **STOREFRONT JAMB DETAIL** 3" = 1'-0" ČORTEN STEELY BUILT UP HEADER PANEL BY SIGNAGE GC 2 ALUMINUM FRAME NOTE: SHOP DRAWINGS WINDOW FOR CORTEN STEEL ALUMINUM DRIP PANELS TO BE PROVIDED FLASHING AT WINDOW SILL BLUESKIN VP WATER RESISTIVE AIR BARRIER LINE OF CORTEN ---MEMBRANE OVER 1/2" STEEL PANEL BEYOND PLYWOOD SHEATHING 1" R-5 RIGID 1 X 3 TRIM. WRAP IN INSULATION BOARD ALUMINUM BREAK CORTEN WINDOW CUT-METAL TO MATCH STOREFRONT SYSTEM OUT J-CHANNEL BY GC CORTEN WINDOW CUT-OUT 1 X 3 TRIM. WRAP IN J-CHANNEL BY GO ALUMINUM BREAK METAL TO MATCH BLUESKIN VP WATER STOREFRONT SYSTEM RESISTIVE AIR BARRIER LINE OF CORTEN MEMBRANE OVER 1/2" STEEL PANEL BEYOND PLYWOOD SHEATHING CORTEN STEEL ALUMINUM DRIP PANEL BY GC FLASHING AT RECESSED WINDOW HEAD NOTE: SHOP DRAWINGS ALUMINUM FRAME FOR CORTEN STEEL WINDOW PANELS TO BE PROVIDED STORE NUMBER: WINDOW SILL AT TOWER N.T.S. 6 WINDOW HEAD AT TOWER N.T.S. (CORTEN STEEL PANEL BY GC) NOTE: SHOP DRAWINGS FOR CORTEN STEEL PANELS TO BE PROVIDED **CORTEN STEEL** PANELS BEYOND CORTEN WINDOW CUT-OUT J-CHANNEL BY GG 1 x 3 TRIM. WRAP IN ALUMINUM BREAK METAL TO MATCH STOREFRONT SYSTEM. BLUESKIN VP WATER RESISTIVE AIR BARRIER MEMBRANE OVER 1/2" PLYWOOD SHEATHING 2X6 WOOD FRAMING PER STRUCTURAL DRAWINGS STOREFRONT WINDOW, SEE A4.0 R-19 FIBERGLASS BATT INSULATION 1/2" GWB GWB WINDOW SILL BELOW WINDOW JAMB AT TOWER N.T.S. 8



- WATER RESISTIVE AIR BARRIER

STRUCTURAL LVL

SEE STRUCTURAL **DRAWINGS** 

CONTINUE

BEHIND

CANOPY

BLOCKING

AT CANOPY

ANCHORAG

- STEEL

¬| PLATE

BRACE B SIGN VENDOR

FINISHED

ON A7.1

1/2" GWB

- 1/2" GWB

SYSTEM

 $^{-}$  2x6 BLOCKING AT PANEL / 
m 2

STOREFRONT

CEI<mark>LING</mark> AS

SCHEDULED

MEMBRANE OVER 1/2" \ PLYWOOD, SHEATHING

NICHIHA, EXTERIOR PANEL -

3/8" THREADED ROD WITH WASHERS AND NUTS ON BOTH SIDES BY SIGNAGE VENDOR. ANY HOLE PENETRATION

LARGER THAN 1/2" DIA. TO

T.O. STOREFRONT

DRIP FLASHING AT

UNDERSIDE OF PANEL AND

HEAD OF STOREFRONT BY

(NICHIHA EXTERIOR)

PANEL

G.C. TO BE PAINTED TO

MATCH STOREFRONT

STOREFRONT

CAULK AT SILL

FLASHING AT

G.C. TO MATCH

STOREFRONT SYSTEM

STOREFRONT SILL PER

STOREFRONT FINISH -

WATER RESISTIVE AIR

R-19 FIBERGLASS

FINISH AS SCHEDULED -

BARRIER MEMBRANE OVER

1/2" PLYWOOD SHEATHING

FOLLOW DRILLING PATTERN ON S4.3

- CANOPY BY

SIGNAGE

**VENDOR** 

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

INSULATION

- R-19 FIBERGLASS BATT

WATER RESISTIVE AIR

- STRUCTURAL HOLD-DOWN

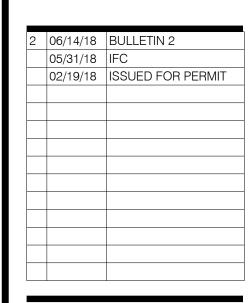
BARRIER MEMBRANE OVER

1/2" PLYWOOD SHEATHING

SEALANT

METAL FLASHING

VAPOR BARRIER OVER FLASHING



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

2016088.09

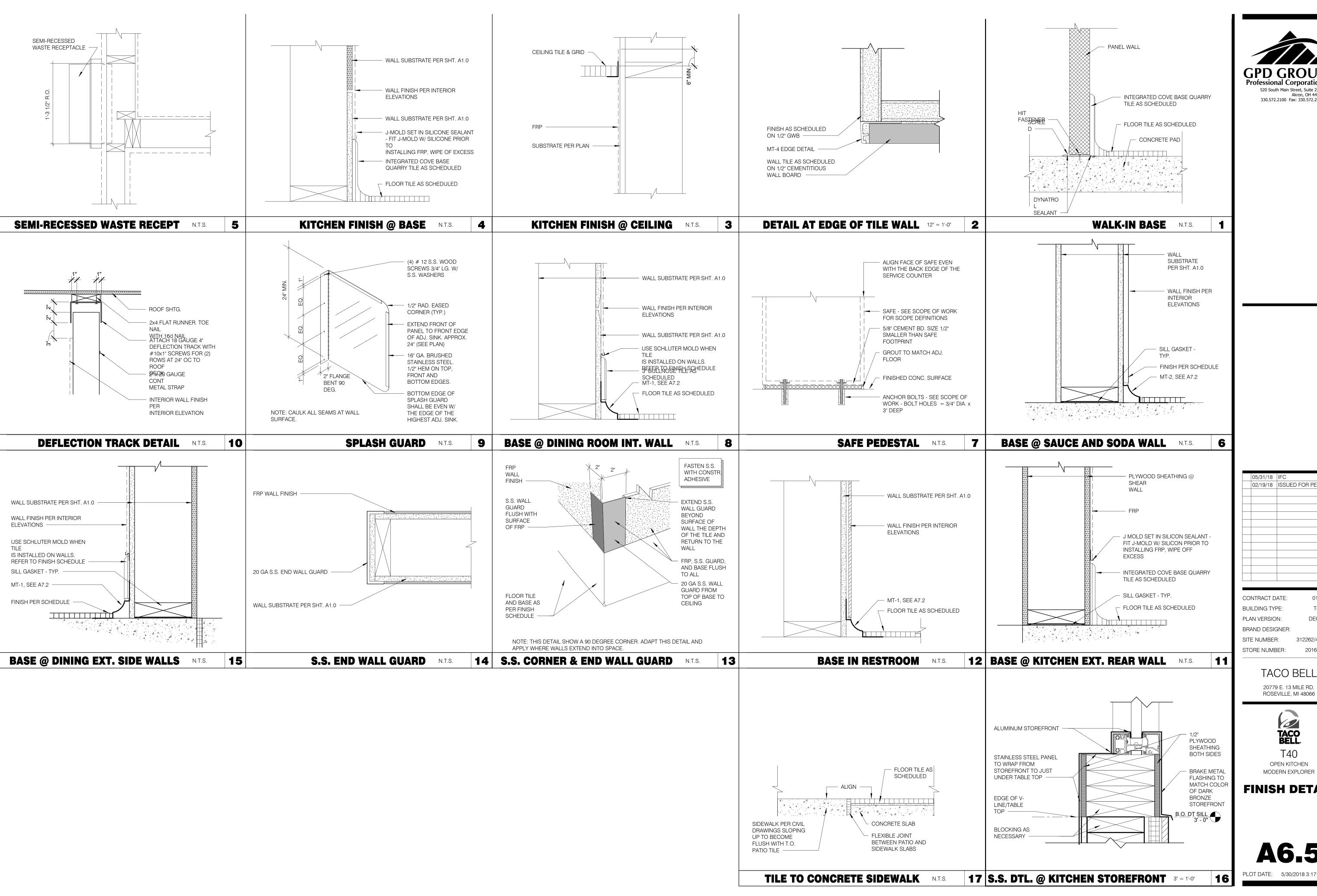
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OPEN KITCHEN MODERN EXPLORER

CONSTRUCTION **DETAILS WINDOW** 





05/31/18	IFC
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01.08.18 T40M-O DEC 2017

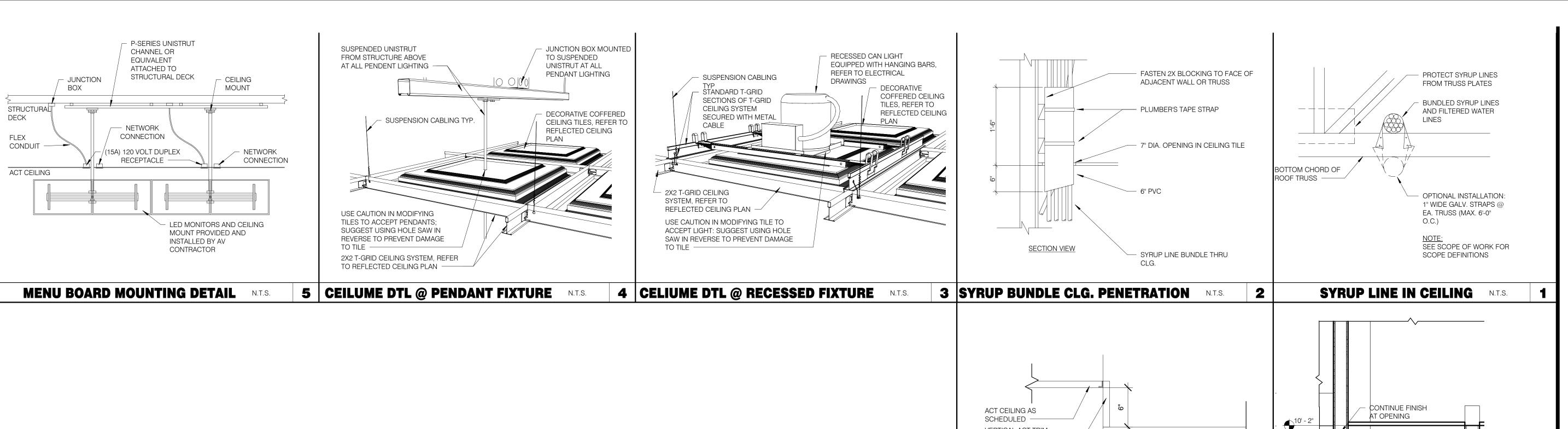
312262/442877 STORE NUMBER: 2016088.09

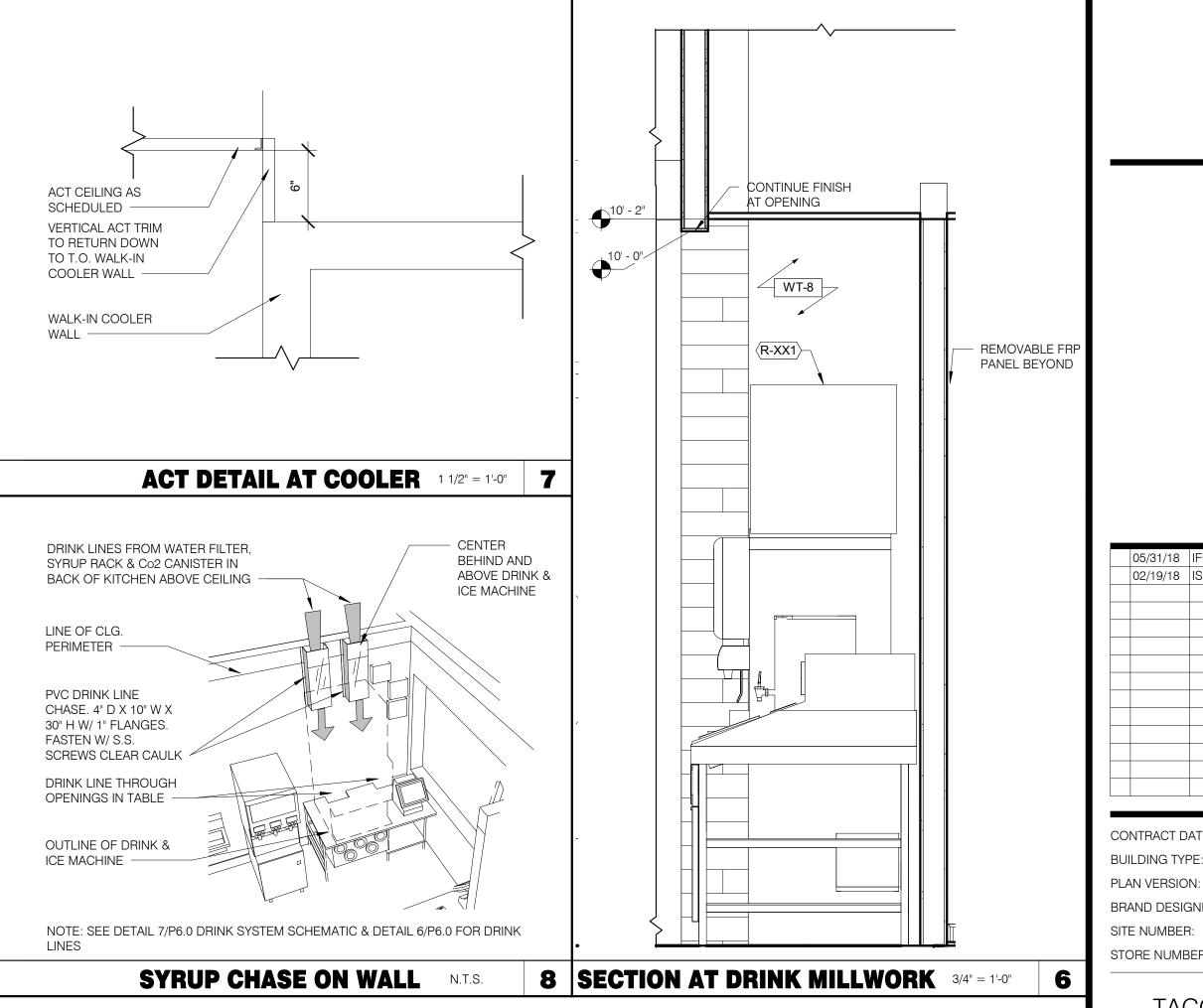
TACO BELL

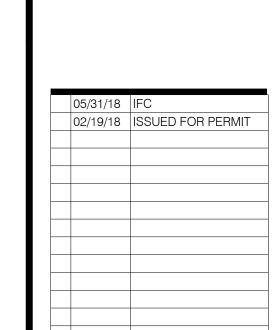
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T40 OPEN KITCHEN MODERN EXPLORER

FINISH DETAILS







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01.08.18 CONTRACT DATE: T40M-O BUILDING TYPE: DEC 2017 PLAN VERSION: BRAND DESIGNER:

STORE NUMBER: 2016088.09

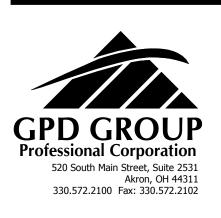
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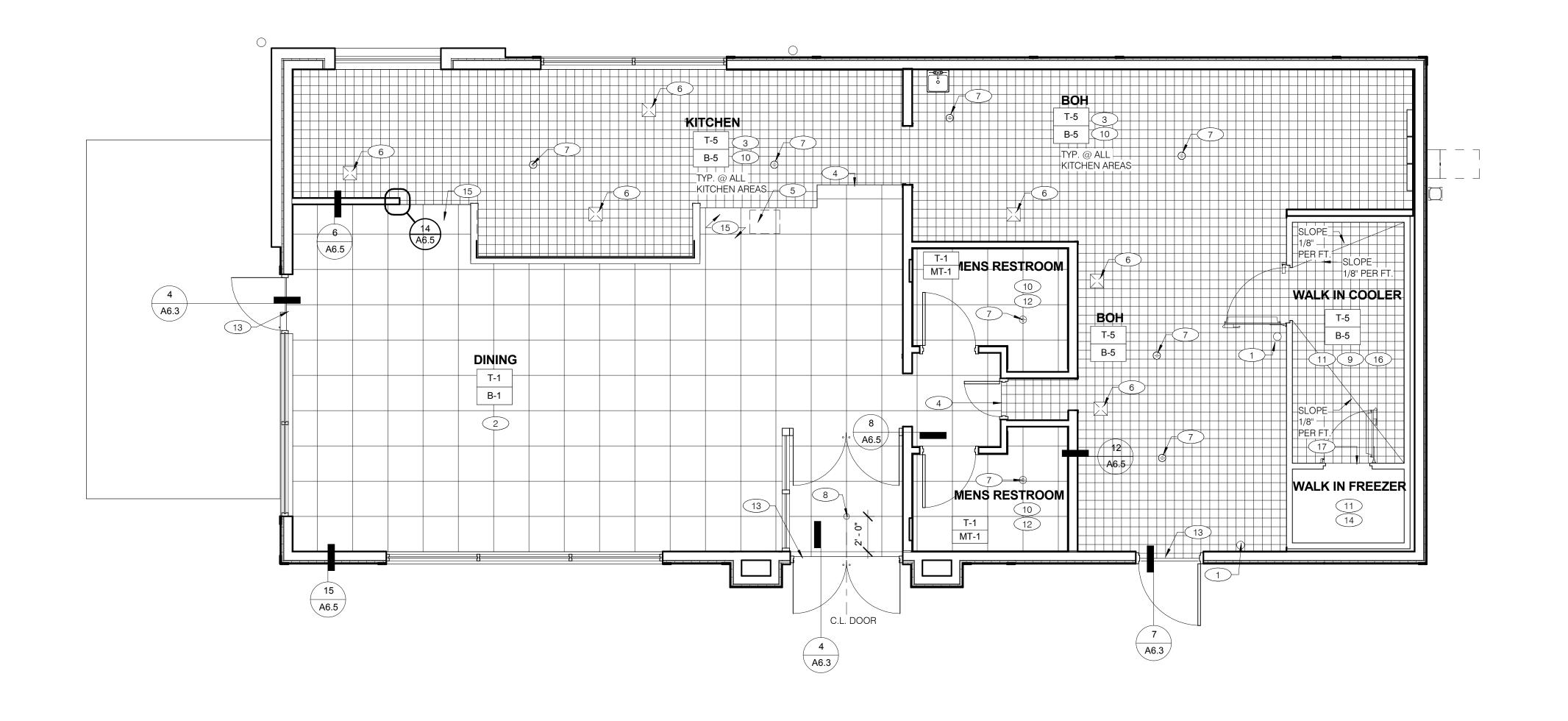
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OPEN KITCHEN MODERN EXPLORER

**MISCELLANEOUS** 





1 HUB DRAIN



### FLOOR FINISH PLAN 1/4" = 1'-0"

FLOOR FINISH PLAN KEYNOTES N.T.S.

2 4" COVE TILE BASE. SEE DETAIL 8/A6.5 FOR INSTALLATION B. TILE JOINTS (U.O.N.): 1. PORCELÀIN FLÓOR TILE : 3/16" 3 6" SANITARY COVE TILE BASE, REF 4/A6.5 2. GLAZED WALL TILE: 1/8" 3. BASE, TRIM AND ACCESSORIES : MATCH ADJOINING TILE UNITS 4 FLOAT TILE FOR FLUSH TRANSITION C. TILE INSTALLATIONS REQUIRE MANUFACTURERS STANDARD MOLDED CORNERS 5 PEDESTAL SAFE. COORDINATE THE LOCATION WITH CONSTRUCTION MANAGER AT BOTH INSIDE AND OUTSIDE CORNERS. 6 FLOOR SINK D. ALL BASE TILE SHALL BE SANITARY COVE STYLE WITH 3/8" MIN RADIUS UNLESS 7 FLOOR DRAIN NOTED OTHERWISE. 8 START POINT FOR FLOOR TILE, CENTERED ON DOOR E. SEE SCOPE OF WORK SHEETS FOR RESPONSIBILITIES. 9 BASE IN COOLER; REF. DETAIL 1/A6.5 F. PROVIDE CLEAR SILICONE CAULK WHERE FRP STOPS AT TOP OF COVE BASE. 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 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. 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

A. DENOTES FINISH MATERIAL. REFER TO SHT A7.2 FOR FINISHES.

**FLOOR FINISH NOTES** 

EINICH	DI AN	1/4" — 1'-0"	

A 04/20/18 BUILDING COMMENTS 02/19/18 ISSUED FOR PERMIT

> CONTRACT DATE: 01.08.18 T40M-O BUILDING TYPE: PLAN VERSION: DEC 2017

> BRAND DESIGNER: SITE NUMBER: 312262/442877 STORE NUMBER: 2016088.09

> > TACO BELL

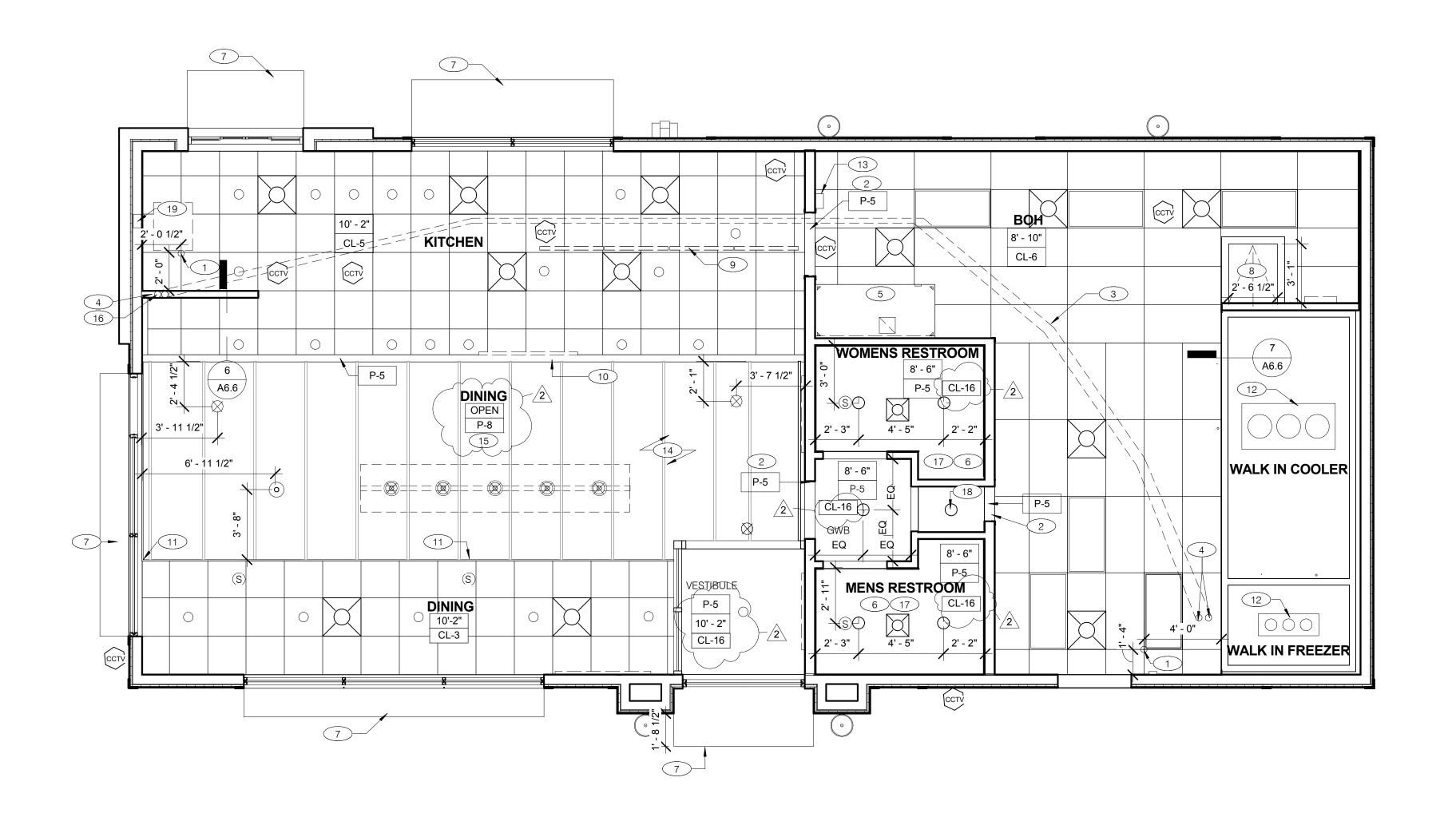
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OPEN KITCHEN MODERN EXPLORER

**FLOOR FINISH PLAN** 







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

#### A. ALL DIMENSIONS ARE TO FACE OF FINISH U.O.N. **GYPSUM BOARD CEILING:** 1 CEILING GRID STARTING POINT. 15 PAINT ALL EXPOSED DUCTWORK, ELECTRICAL WIRING, ROOF DECK, AND WALL SURFACES SUBSTRATE SHALL BE 1/2" THICK GYP BD. ABOVE TRUSS BEARING P-8. TRUSSES AND BRIDGING TO REMAIN UNPAINTED. 2 BULKHEAD @ 7'-0" A.F.F. ACOUSTICAL SEALANT: APPLY TO GYP. BD. PANELS AS INDICATED IN SPECS. **LIGHTING** A. REFER TO ROOM FINISH SCHEDULE (SHT A7.2) FOR CLG. FINISHES. GYP. BD. FINISHING AND DECORATING: REFER TO DWGS FOR TEXTURE AND 16 PVC SYRUP CHASE IN WALL 3 NON-INSULATED BUNDLED SYRUP LINES FOR DRINK SYSTEM ABOVE CEILING. RECESSED LIGHT FIXTURE 17 RESTROOM CEILINGS TO BE FRAMED W/ 2" X 6" WOOD STUDS @ 16" O.C. SUSPENDED CEILING: PENDANT LIGHT FIXTURE ACOUSTICAL PANEL INSTALLATION: INSTALL ACOUSTICAL PANELS WITH EDGES IN 4 6" DIA PVC STUB THROUGH CEILING, SEE DETAIL 2/A6.6 (18) CENTER RECESSED LIGHT IN ROOM, BOTH DIRECTIONS CLOSE CONTACT WITH METAL SUPPORTS AND IN TRUE ALIGNMENT. SEE ELECT. DWGS. FOR FIXTURE SCHED. HUB TABLE PENDANT LIGHT ALLOWABLE VARIATIONS FROM FLAT AND LEVEL SURFACE: 1/8" IN 10'-0" MAX. EXISTING EMERGENCY LIGHTS TO REMAIN. 5 EXHAUST HOOD 19 STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 8/A6.6 ALLOWABLE VARIATIONS FROM PLUMB OF GRID MEMBERS: AS CAUSED BY CEILING MOUNTED OUTLETS & PLATES SHALL BE BLACK SCONCE LIGHT FIXTURE PENDANTS SHALL BE CENTERED OVER TABLES. VERIFY TABLE LOCATIONS WITH ECCENTRIC LOADS, 2° MAX. 6 FOR ROUGH FRAMING OPENINGS SEE AIR DEVICE SCHED. (TYP. AT RESTROOMS). INSTALL SYSTEM AFTER MAJOR ABOVE CLG. WORK IS COMPLETE. COORD SEATING VENDOR SUPPLIED CORE DRILL PLAN PRIOR TO LOCATING PENDANTS. CEILING MOUNTED EXIT SIGN LOCATIONS OF HANGERS WITH RELATED WORK. 7 AWNING/ROOF BY SIGNAGE VENDOR SEE SPECS FOR ADDITIONAL INFORMATION. 2' X 4' LAY-IN LIGHT FIXTURE ALL DINING ROOM SUPPLY AND RETURN GRILLES SHALL BE INSULATED. FAILURE CUT EDGES OF TEGULAR TILES SHALL BE ROUTED. 8 ROOF HATCH. SEE 2&4/A6.2 TO COMPLY WILL RESULT IN INSTALLATION BEING REJECTED, CORRECTIONS DUAL HEAD EMERGENCY FIXTURE CEILUME SUSPENDED CEILING: MADE AND ALL REMEDIAL COSTS CHARGED BACK TO CONTRACTOR. 9 MENU BOARD. SEE SCOPE OF WORK EMERGENCY WALL PACK FIXTURE <u>CUT TILES:</u>USE SCISSORS OR STRAIGHT BLADE AVIATION SNIPS TO CUT CEILING 10 BULKHEAD @ 10'-0" A.F.F. TILES. DO NOT USE A UTILITY KNIFE.TWO (2) OR THREE (3) TILES CAN BE NESTED SECURITY STROBE LIGHT (11) LINE OF AXIOM EDGE DETAIL FOR FLOATING ACT CEILING TOGETHER AND CUT AT ONE TIME. CUTTING HOLES: RUN HOLE SAW IN REVERSE, THIS WILL ALLOW FOR SMOOTH (12) FAN COIL FOR WALK-IN FREEZER/COOLER CUT AND PREVENT SAW BLADE FORM BINDING OR GRABBING VINYL. FOR AREAS WITH HIGH WIND LOAD OR POSITIVE PRESSURE BELOW THE CEILING **MECHANICAL** <u>AUDIO</u> 13 ALERT LIGHT BOX FOR 3-COMP POWER SOAK MOUNTED AT C.L. OF BOX 7-11" AFF RESULTING IN UPLIFT OF TILES: S SPEAKER EXHAUST FAN INSTALL TWO (2) UPLIFT PREVENTION CLIPS PER TILE; USG/DONN I15 CEILING CLIP 14 WOOD TRUSS. B.O. TRUSS AT 11'-8" A.F.F OR EQUIVALENT. SUPPLY INSTALL CLIPS ON TILES NEAREST DOORS FIRST, AND WORK INWARDS. ONLY CLIP TILES THAT THAT EXHIBIT UPLIFT, DO NOT INSTALL ON ENTIRE CEILING. DO RETURN NOT INSTALL A "BLANKET" OR MINERAL FIBER TILE ON TOP OF THE CEILUME TILE TO PREVENT UPLIFT. RCP LEGEND N.T.S. **REFLECTED CEILING PLAN NOTES** REFLECTED CEILING PLAN KEYNOTES N.T.S. D

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: 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



14U
OPEN KITCHEN
MODERN EXPLORER

REFLECTED CEILING PLAN

**A7.1** 

	QTY	MANUFACTURER	TYPE	COLOR	SIZE	GROUT	Comments	ALTERNATE MANUFACTURER	ALTERNATE COLOR
	QII	WANT ACTORER	111 L	OOLOIX	OIZL	OROOT	Comments	ALILINATE MANOTACTORER	ALILINATE OCLOR
CEILING									
CL-3	469 SF	CEILUME	STRATFORD	LATTE	2X2	N/A	SUSPENDED GRID W/ALUMINIUM, KITCHEN FLAME SPREAD		
CL-5	363 SF	CERTAINTEED	CEILING TILE	ACT VINYL ROCK #1140 WASHABLE NON PERFORATED, COLOR MATCH	2X2X1/2"	N/A	RATING 0-25, CLASS A, PAINT GRID SW6080 UTTERLY BEIGE WHITE FLAME SPREAD RATING 0-25, CLASS A		
CL-6	470 SF	CERTAINTEED	CEILING TILE	CL-3 ACT VINYL ROCK #1140 WASHABLE NON PERFORATED	2X4X1/2"	N/A	WHITE SUSPENDED GRID W/ALUMINIUM, BOH		
CL-9	45' - 5" L	F ARMSTRONG	AXIOM CLASSIC TRIM	MATCH CL-3	10"H	N/A	FLAME SPREAD RATING 0-25, CLASS A		
CL-16	Y	N/A	GYPSUM BOARD	N/A	PROFILE				
CHAIR R									
CR-1	46 LF		STAINED MAPLE CHAIR RAIL	MINWAX CLASSIC GREY STAIN	1X4				
FLOOR E	ASE	2							
B-1		LF EUROWEST	TILE	URBAN GREY WEAVE	3X24	MAPEI # 47 CHARCOAL	DINING ROOM, ALCOVE	CREATIVE MATERIALS	METROPOLITAN 6"X12" COVE BASE
B-5	182' - 4"	LF EUROWEST	TILE	QUARRY NON ABRASIVE PURITAN GRAY COVE BASE	4X24	MAPEI # 106 WALNUT	B.O.H, KITCHEN	CREATIVE MATERIALS	QUARRY #507, 6"X6" NATURAL, GROUT: MAPEI KERAPOXY IEG CQ W/ PART C GREY
FLOORIN	IG								
T-1	1043 SF	EUROWEST	TILE	URBAN GREY WEAVE # V606292X8	24X24	MAPEI # 47 CHARCOAL	DINING ROOM, ALCOVE, RESTROOMS	CREATIVE MATERIALS	METROPOLITAN GREIGE 24X24 NATURAL, GROUT: MAPEI ULTRA COLOR PLUS
T-5	875 SF	EUROWEST	TILE	QUARRY #507 NON ABRASIVE PURITAN GRAY	6X6	MAPEI # 106 WALNUT	B.O.H, KITCHEN	CREATIVE MATERIALS	QUARRY #507, 6"X6" NATURAL, GROUT: MAPEI KERAPOXY IEG CQ W/ PART C GREY
LAMINAT	E								
DL-1		NEVAMAR	LAMINATE	BAILEY # WK0027T			DOOR EDGES TO BE FINISHED SIMILAR TO FACES		
FRP-1		MARLITE	FIBERGLASS REINFORCED PANEL	FP-100 WHITE (PEBBLE FINISH) - NO COLOR VARIATIONS ACCEPTED			B.O.H WALLS		
L-1		WILSONART	LAMINATE	RUSTIC SLATE 4888-38			POS / PICK UP COUNTER FACE		
L-2		WILSONART	LAMINATE	4886-38 PEARL SOAPSTONE # 4886-38			OPEN KITCHEN WALL / SHROUD		
L-9		NEVAMAR	LAMINATE	SMOKEY WHITE # 27027T			LAMINATE FOR OFFICE SHELVING		
SS-1	100.05	WILSONART	SOLID SURFACE	STARON BRIGHT WHITE SS-3 GLOSS 15			1/2" SS GLUED TO 3/4" PLYWOOD BACKING		
WC-1	190 SF	WILSONART	WAINSCOT LAMINATE	PEPPERDUST, MATTE FINISH D327-60					
	RANSITION								
MT-1		SCHLUTER	DILEX AHK	NICKEL ANODIZED ALUMINUM	23/32"	MAPEI # 47 CHARCOAL	COVE BASE		FOR ALL CALIFORNIA STORES, USE AF: SATIN ANODIZED ALUMINUM
MT-2		SCHLUTER	DILEX AHK	EB: BRUSHED STAINLESS STEEL			TILE WALL @ KITCHEN AND DINING - COVE BASE		
MT-3				SATIN ALUMINUM ANODIZED			METAL SILVER TRIM AT VERTICAL WAINSCOT SEAMS		
MT-4		SCHLUTER	JOLLY	SATIN ALUMINUM ANODIZED	1/2"	MAPEI #01 ALABASTER	TILE WALL EDGE TRANSITION		
					PROFILE				
PAINT		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Y ~ Y ~ Y ~ Y						
P-3		SHERWIN WILLIAMS	S PAINT	GRIFFIN SW7026- SEMI GLOSS	N/A	N/A			
P-5		SHERWIN WILLIAMS		WORLDLY GRAY SW 7043 - SEMI GLOSS	N/A	N/A			
P-8		SHERWIN WILLIAMS		GRIFFIN SW7026 - FLAT FINISH	N/A	N/A			
						,	·	1	,
WALL TIL	.E 908 SF	EUROWEST	TILE	TERRE NERO - #563474	8X8	MAPEI # 47 CHARCOAL	RESTROOM WALLS	CREATIVE MATERIALS	TERRA ANTHRACITE 8X8 NATURAL,
WT-2	151 SF	EUROWEST	TILE	TERRECOTTE DECO MIX - #563495	8X8	MAPEI # 47 CHARCOAL	ACCENT WALL TILE , INSTALL ON WALL OPPOSITE DOOR OPENING	CREATIVE MATERIALS	GROUT: MAPEI ULTRACOLOR PLUS TERRA DECO MIX 8X8, GROUT: MAPEI ULTRACOLOR PLUS
WT-8	295 SF	EUROWEST	TILE	ARCTIC ANTICATO	3X30	MAPEI # 01 ALABASTER		CREATIVE MATERIALS	CMC SALVAGE WOOD WHITE WASH 3X36 NATURAL, GROUT: MAPEI ULTRACOLOR PLUS
	<u> </u>	'	•	<u> </u>	1		<u> </u>	·	FINISH LEGEND A
									FINISH LEGEND A
								•	

ROOM SCHEDULE D

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

1.INSTALL FRP ON KITCHEN SIDE OF SERVING COUNTER WALL. GALV. STEEL WALL AND CEILING FINISHES BY WIC / WIF BOX MFR. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE AND FRP.
APPROVED PAINT MANUFACTURERS:

PORTER, BENJAMIN MORE, SHERWIN WILLIAMS, ICI, & PITTSBURGH PAINTS. MATCH SPECIFIED SCHEDULE COLORS EXACTLY.

ALL PAINTED GYPSUM BOARD SHALL HAVE A LIGHT ORANGE PEEL TEXTURE. ALL MORTAR SHALL BE MIXED WITH WHITE SAND TO INSURE A COLOR CONSISTENT TO THE ORIGINAL DESIGN

9. ALL TILE MUST BE ORDERED FROM THE SAME VENDOR, EITHER EUROWEST OR CREATIVE MATERIAL CORP.

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

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

<u>WILSONART INTERNATIONAL, INC.</u> DAVID CHICKVARA (254)-207-2130 CHICKV@WILSONART.COM SHERWIN WILLIAMS

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

TACOBELLTILE@CREATIVEMATERIALSCORP.

RETROPLATE CONCRETE DYE

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

CREATIVE MATERIALS CORP. PH: (800)-207-2967 EXT BELL(2355)

MIKE BLACKBURN (717)-439-1114

FINISH NOTES C

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

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

**BERRIDGE** 1-(800)-669-0009

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

<u>DAVIS COLORS</u> (MORTAR PIGMENT) WEST: (800)-356-4848 EAST: (800)-638-4444

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

<u>JOHNSONITE</u> LAURIE BAATZ (440)-313-8238 <u>NICHIHA</u>

MATT STEPHENSON

CONTACTS B

(770)-789-8228

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

2	06/14/18	BULLETIN 2
	05/31/18	IFC
	02/19/18	ISSUED FOR PERMIT

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

01.08.18

2016088.09

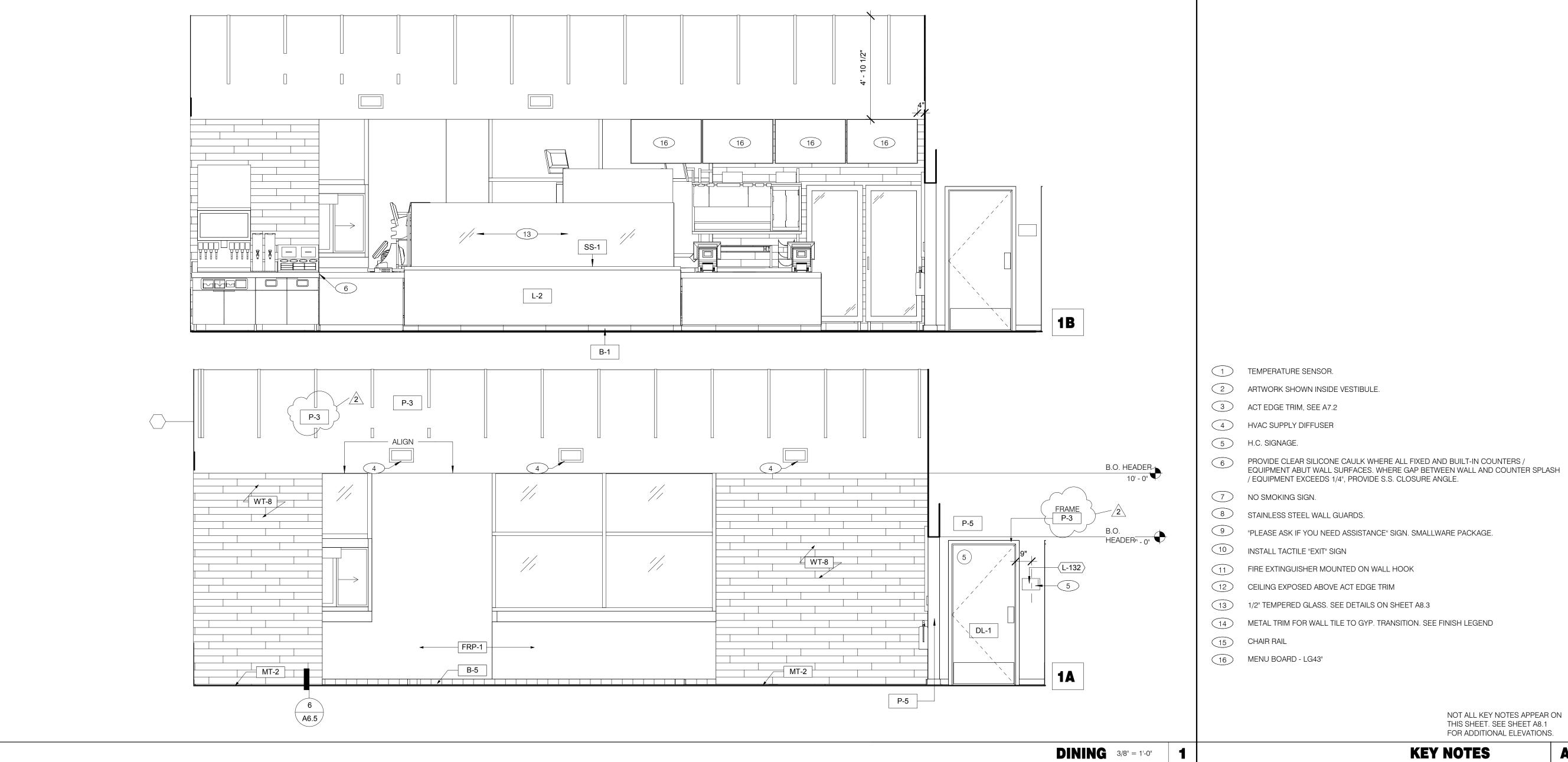
TACO BELL

20779 E. 13 MILE RD. ROSEVILLE, MI 48066

STORE NUMBER:

OPEN KITCHEN MODERN EXPLORER

**FINISH LEGEND AND SCHEDULE** 



5' - 0" MT-4

WT-8

MT-2

BOH BEYOND 5' - 10"

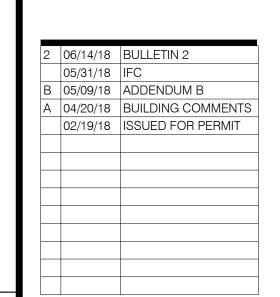
2 A6.5

9

B-1

G-XX3

11



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

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

P-3

ALCOVE BEYOND

EQ.

(G-315)

EQ.

BUILDING TYPE: PLAN VERSION:

CONTRACT DATE:

BRAND DESIGNER: SITE NUMBER:

312262/442877 STORE NUMBER: 2016088.09

01.08.18

T40M-O

DEC 2017

TACO BELL

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



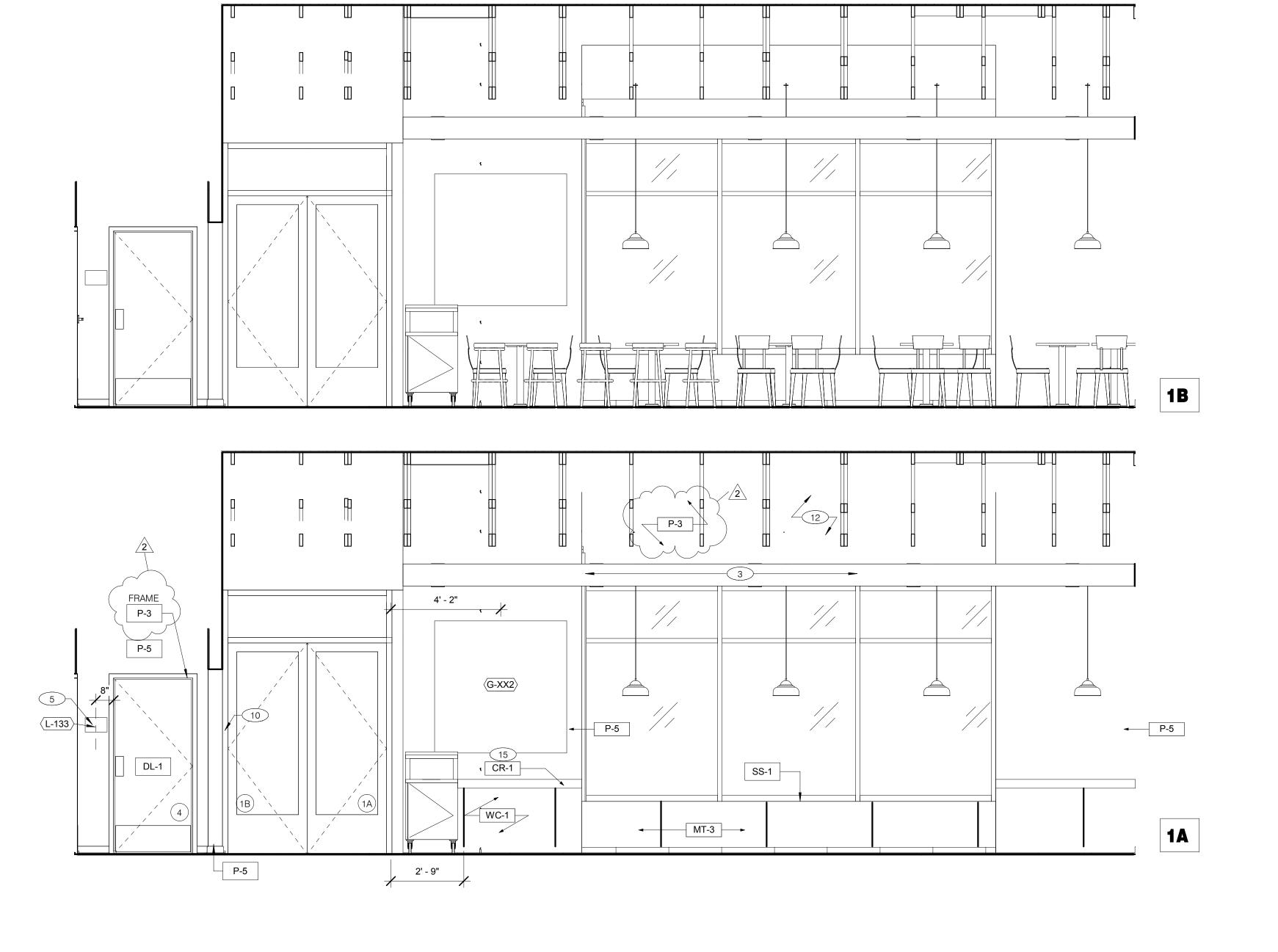
OPEN KITCHEN MODERN EXPLORER

**INTERIOR ELEVATIONS DINING ROOM** 

**A8.0** 

2





SEE SHEET A8.0 FOR KEY NOTES

DINING 3/8" = 1'-0"

CONTRACT DATE:
BUILDING TYPE:

PLAN VERSION: DEC 2017
BRAND DESIGNER: 312262/442877

2 06/14/18 BULLETIN 2

A 04/20/18 BUILDING COMMENTS

02/19/18 ISSUED FOR PERMIT

SITE NUMBER: STORE NUMBER:

TACO BELL

01.08.18

T40M-O

2016088.09

20779 E. 13 MILE RD. ROSEVILLE, MI 48066

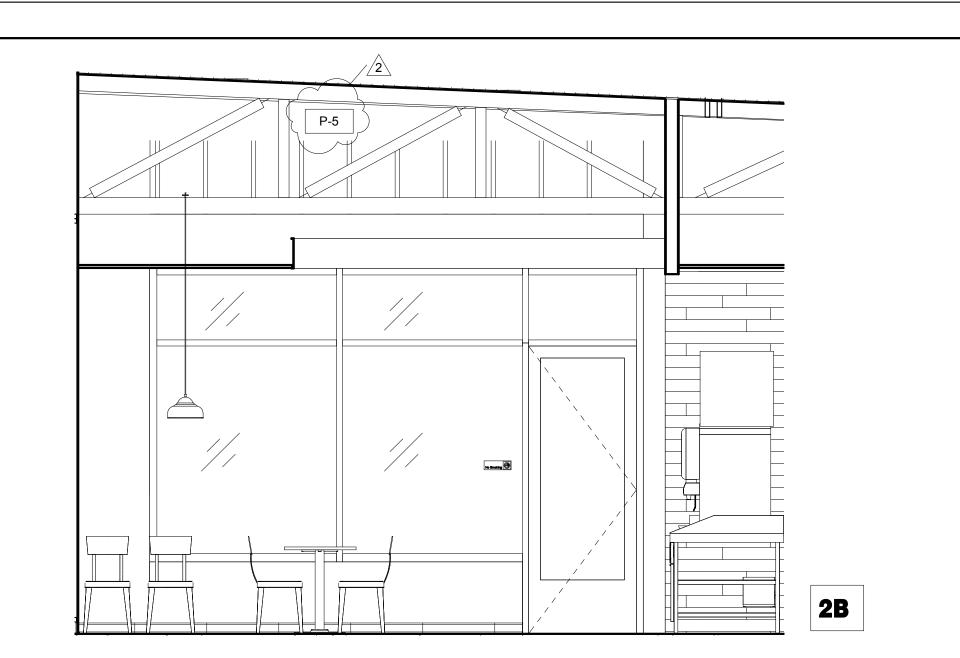


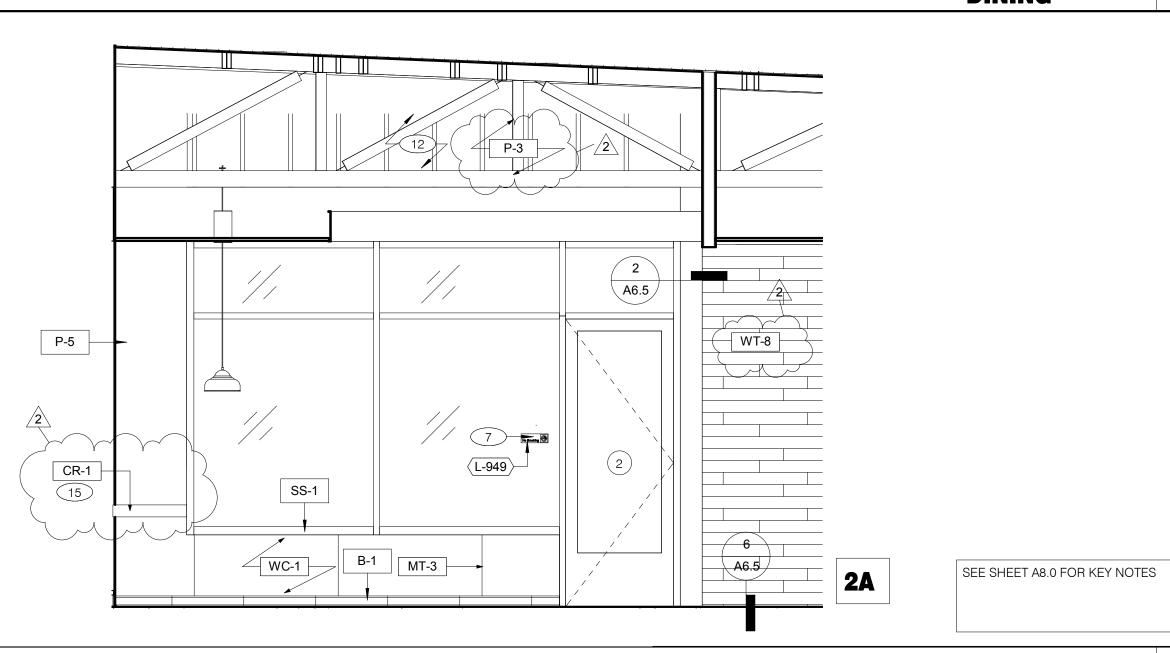
140 OPEN KITCHEN MODERN EXPLORER

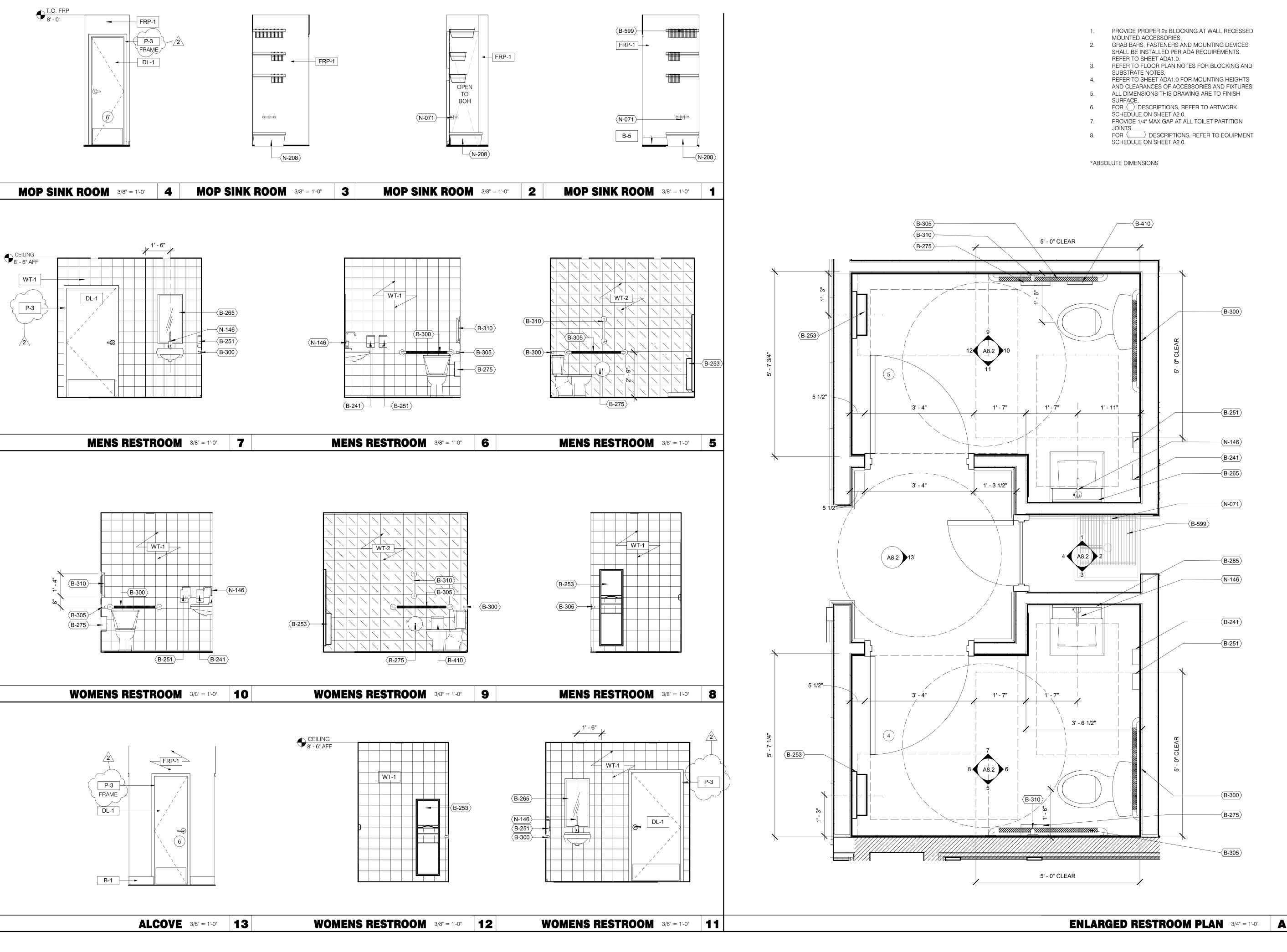
INTERIOR ELEVATIONS DINING ROOM

**A8.1** 

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









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

2	06/14/18	BULLETIN 2
	05/31/18	IFC
	02/19/18	ISSUED FOR PERMIT

CONTRACT DATE: T40M-O **BUILDING TYPE:** PLAN VERSION: BRAND DESIGNER:

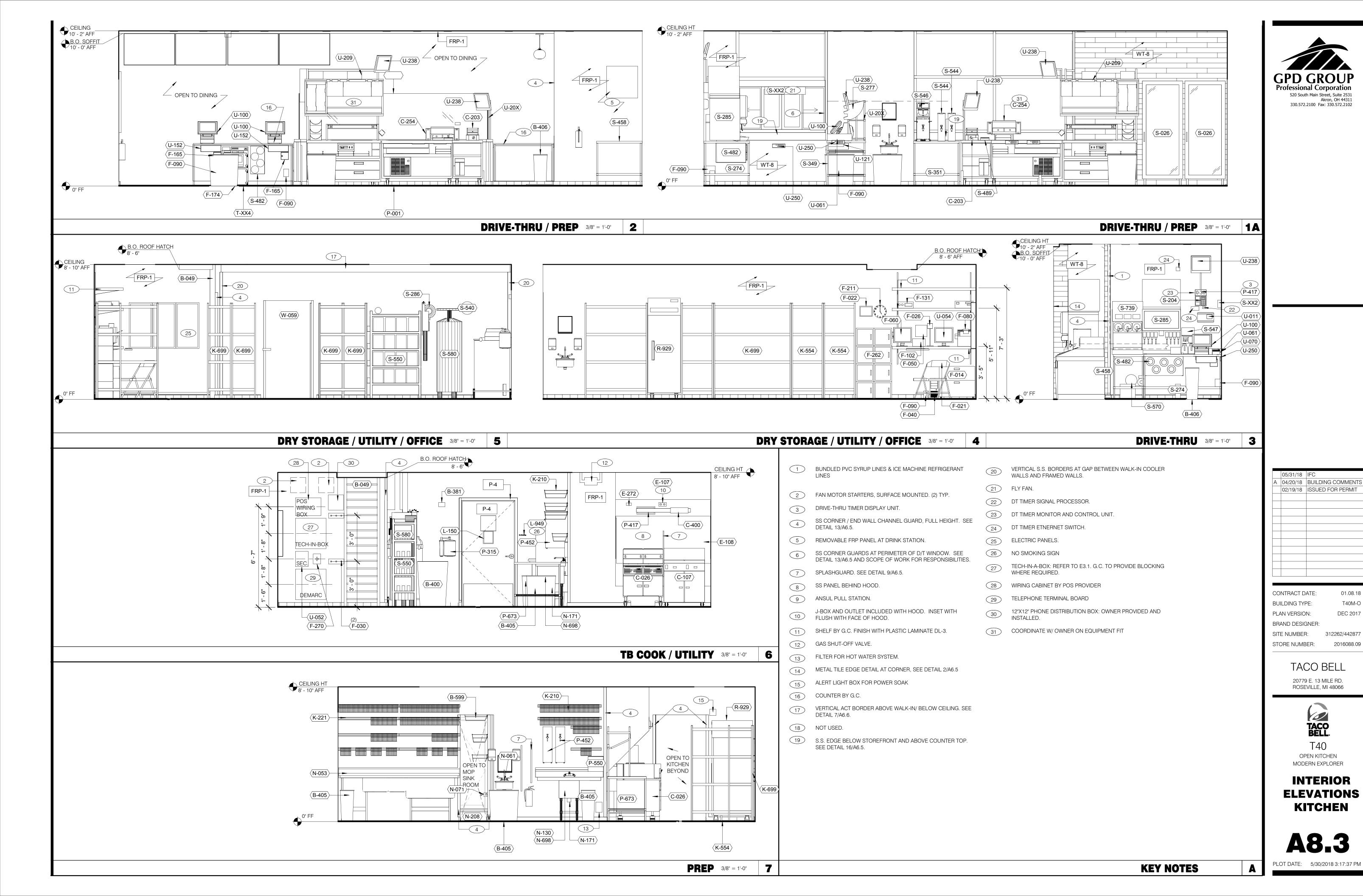
312262/442877 SITE NUMBER: STORE NUMBER:

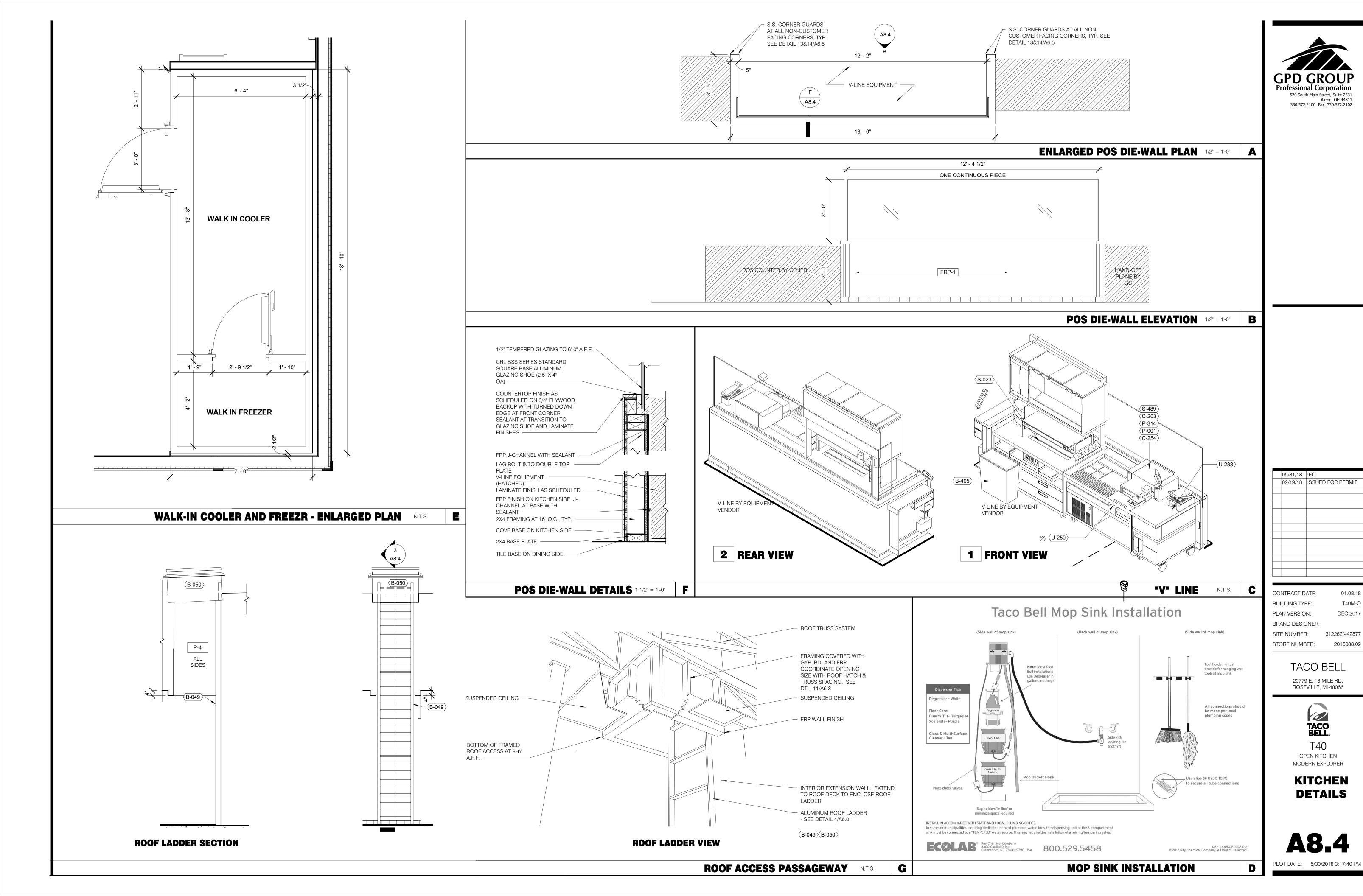
> TACO BELL 20779 E. 13 MILE RD. ROSEVILLE, MI 48066

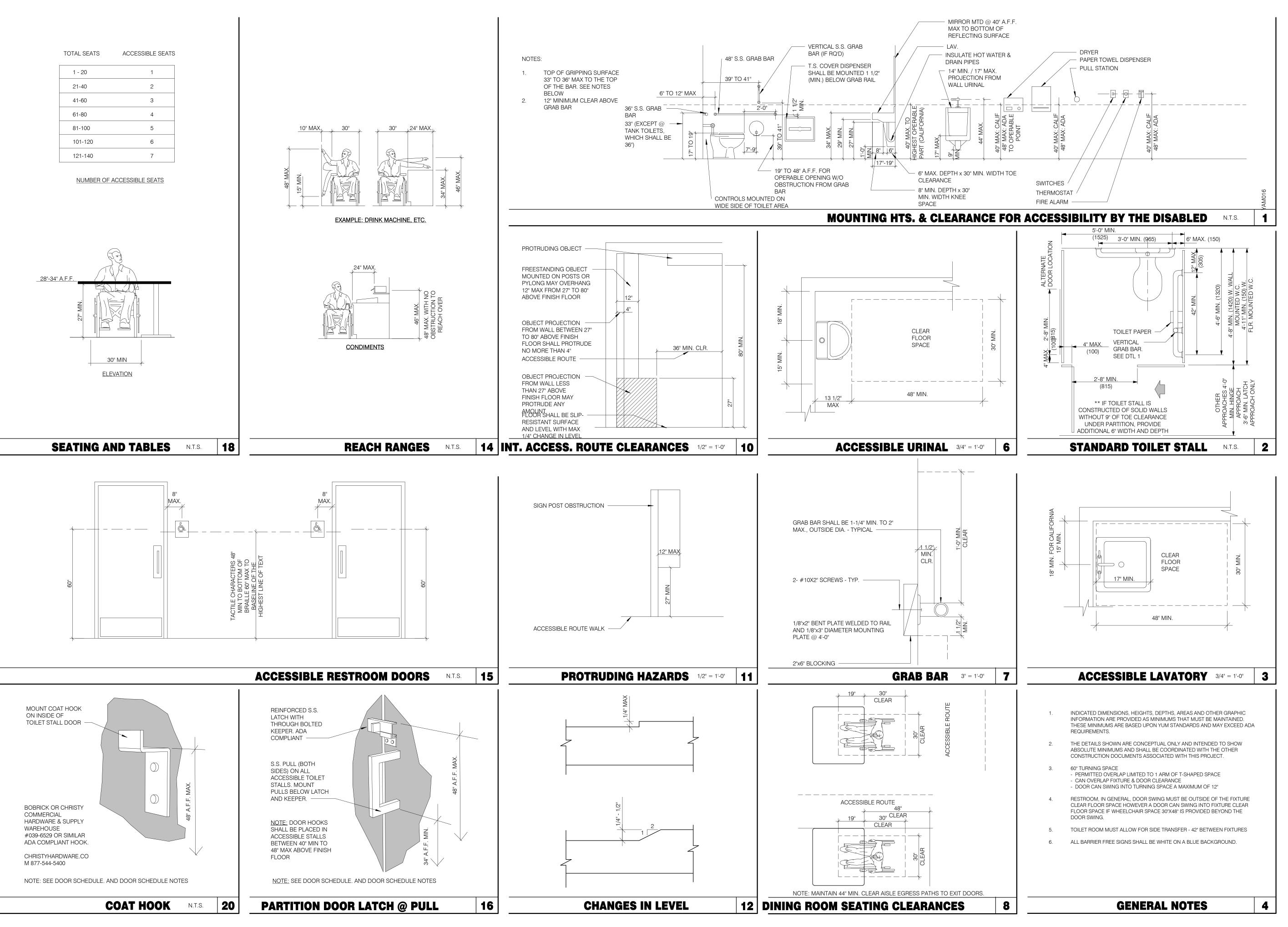
T40 OPEN KITCHEN MODERN EXPLORER

INTERIOR ELEV. **ENLARGED RESTROOMS** 

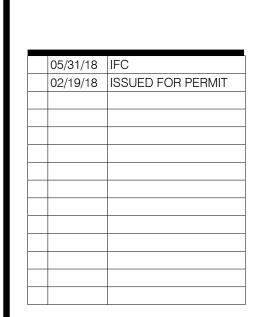
**A8.2** 











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



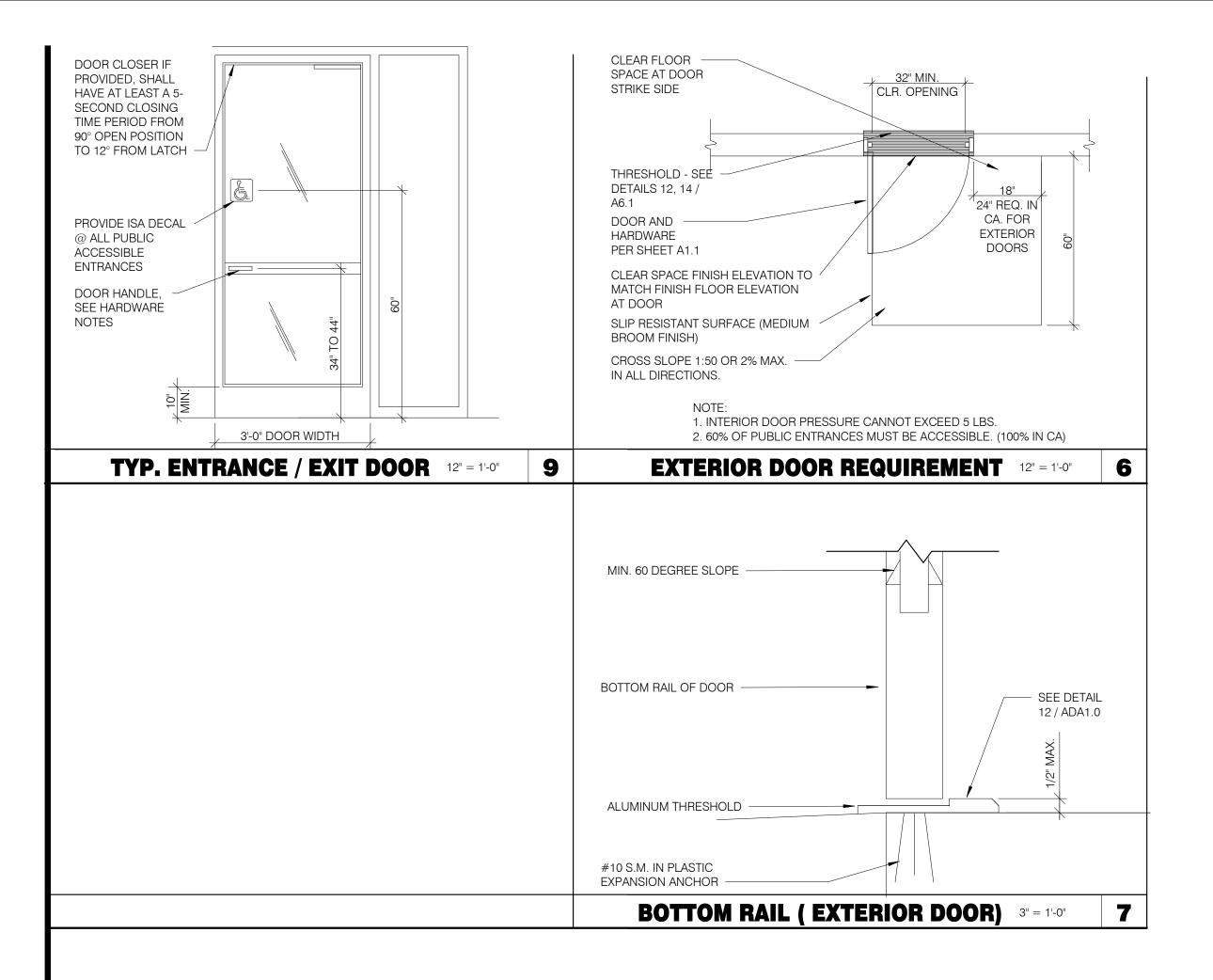
T40

OPEN KITCHEN

OPEN KITCHEN MODERN EXPLORER

### ACCESSIBILITY REQUIREMENTS

ADA1.0





	05/31/18	IFC
Α	04/20/18	BUILDING COMMENTS
	02/19/18	ISSUED FOR PERMIT

01.08.18 T40M-O

DEC 2017

2016088.09

CONTRACT DATE:
BUILDING TYPE:
PLAN VERSION:

BRAND DESIGNER:
SITE NUMBER: 312262/442877

SITE NUMBER: STORE NUMBER:

TACO BELL

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



140 OPEN KITCHEN MODERN EXPLORER

# ACCESSIBILITY REQUIREMENTS

ADA1.1

PLOT DATE: 5/30/2018 3:17:42 PM

TITLE	DESCRIPTION	SUPPLIER	MANUFACTURER'S MODEL	A&DITEM#	ORDERED BY	SHIPPED BY	INSTALLED BY	SHOP DRAWINGS
6200	Roof Access Ladder & Hatch (T50 only)	Precision		B-049 (Ladder) & B-050 (Hatch)	DIS	DIS	GC	orior bis wintes
8341	Door - Security	LockNet	DU3670L52VED	-		RSCS	GC	
10290-1	Air Curtain (D/T Window)	Marley	E2400-1115FG	B-151	DIS	DIS	GC	
10290-2	Air Curtain (Service Door)	Marley		B-150	DIS	DIS	GC	
	Exterior Menu Board & Preview Board Housings	Everbrite Onder Metic Comparation	VARIES	-	CM (Company), CM or DIS (Franchise)	Manufacturer	Federal Heath Sign Co or GC	X
	Interior Menuboard	Order Matic Corporation VGS	VARIES VGS #MB-MBD-I-10P	L-016	,	Manufacturer	GC	
	Exterior Menuboard Strip, Interior Menu Board Panels, POP	Taco Bell Marketing (represents supplier "Archway")	-	-	RSCS	DIS	OPS	
10430	Signage (Bldg Signs, Road Signs, Directional Signs)	Everbrite		VARIES	CM (Company), CM or DIS	Manufacturer	Manufacturer (Local Installer)	Х
				VARIES	(Franchise)			
				VARIES VARIES	1			
10536	Canopies / Slat Walls /Flying Arches	Everbrite		VARIES	CM (Company), CM or DIS	Manufacturer	Manufacturer (Local Installer)	X
				VARIES	(Franchise)			
				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	F-174	СМ	BRINKS	BRINKS	
11020-2	Socurity System	Type	side vault)		CM	Manufacturer	lee .	V
11030-1	Security System Drive-thru Window	Tyco Quikserv	QKSRVSC4030BR	B-140		Manufacturer	GC GC	<u> </u>
11030-3	Drive-thru Clearance Bar / Portal	Everbrite	-	-		Manufacturer	GC	
			-	-	]			
			- -	<del>-</del>	1			
11030-4	Drive-thru Sensor Loops	ERC Parts Inc.	WX8171			Manufacturer	GC	
11100-3	P.O.S.	IBM	-	VARIES	TB/IT	Manufacturer	SSP	x
		NCR PAR	-  -	VARIES VARIES				
11100-4	Credit Card Payment System	Hughes Network Systems	-	-	TB/IT	Manufacturer	SSP	
11300-1	Order Confirmation Board (OCB)	Delphi Display Systems	P6YUC5STDUSVV1S; P6YOCSSTDUSEN1S	-	DIS		GC (see Scope of Work notes)	
		Hyperactive		L-090				
11300-2	Drive-thru Speaker & Microphone	Texas Digital HME		L-095 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	Manufacturer	GC (see Scope of Work notes)	X
			E005749B 500115671		behalf of Franchisee			
			TBCAN9246					
11400-1	Kitchen Equipment	RSCS (Company stores only)		VARIES	DIS	DIS	GC (see General Comments)	Х
11400-5	GTO with EVO Production Line	Delfield		VARIES VARIES	DIS	DIS	GC / Manufacturer (Local Installer)	V
11400-0	GTO WITH EVO Froduction Line	Duke		VARIES		טוס	GC / Waridiacturer (Local Installer)	^
		Carter Hoffman (EvO cabinets)	VARIES	VARIES				
11405-3	Kitchen Shelving / Workstations	I.S.S.		VARIES	DIS	DIS	GC	
11405-4	Walk-In Cooler / Freezer (Panelized)	I.C.S. Norlake		VARIES VARIES	IGC	Manufacturer	GC or Manufacturer (up to CM's discretion)	X
		Kolpak		VARIES	1			
11425	Exhaust Hoods	Stratovent (preferred supplier)	VARIES	VARIES	DIS	DIS	GC	Х
		Gaylord Industries (Broiler hood, preferred supplier) 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			Manufacturer (Local Installer)	
11680	Office Computer (Taco System)	En Pointe Global Services		F-040, F-060	TB/IT	SSP	SSP	
12100-1	Artwork	Creative Palette Clark and Riggs Printing	VARIES VARIES	<u>-</u>	DIS	DIS	GC	
12400-5	Décor	iDx for transformational	VARIES	<u>-</u>	DIS	DIS	GC	l <sub>x</sub>
			VARIES	-	]			
			VARIES					
			VARIES VARIES	VARIES	1			
12430	Fruitista Machine	Equipment Delivery, Install and Activation		VARIES	DIS - Equipment; GC -	DIS	Service Agents - ICEE (East) or RepTec (West)	
		FBD Equipment Manufacturer	VARIES	VARIES	Installation & Setup (notify			
		Taco Bell Engineering		VARIES VARIES	vendor 2 weeks from install date)			
12440	Iced Tea	Tetley		S-546	, , , , , , , , , , , , , , , , , , ,	Supplier	GC / Supplier	
13200	CO2 - Bulk	MVE (bulk tank)		S-580	DIS	DIS	Manufacturer (Local Installer)	<del>                                     </del>
12700 4	CCTV	NU CO2 (CO2 and service)	VARIES	S-580	IDSCS	MADTOO	IMARTOO	<sub>v</sub>
13700-4 13800-1	Lighting Control Panel - Exterior	MARTCO Accuserv	Cooper LT16	-  -	RSCS DIS	MARTCO DIS	MARTCO GC	^
13800-2	Exhaust Fan - Make Up Air Interlock & Interior Lighting Control Panel	Air Care Experts	TBCB-1	-			Air Care	<del>                                     </del>
13900-1	Fire Suppression System	Ansul	-	-	GC	GC	GC (Local Installer)	
15410	Hand Sinks	Aero	HS-Mod	N-053	DIS	DIS	GC (non Vandar Caar a Barris D. 1 . 2 . 1 . 2	
15470-5 15480-3	Water Filter Water Heater	Shurflo AO Smith (standard)	WB6-M3-22-003 AO Smith BTH-120 (standard)	- B-215		Manufacturer RSCS	GC (see Vendor Scope - Pepsi Drink System)	<del>                                     </del>
	v vacor i roator	Bradford White (alternate)		B-215				
45500 :	Water softener	- To the and Delegate C	-	-		RSCS	GC	
15500-1	HVAC - Test and Balance	Test and Balance Corp.  Melink Corp/	-  -	<u> -</u>  _	Determined by CM or RCM; Approved options - GC	Determine by CM or RCM; Approved	Determined by GC / CM / RCM	x
		Air Care Experts	- -	<u>-</u>	CM/RCM	options - GC CM/RCM		
15700-1	HVAC	Trane (Company stores)	VARIES	-	•	Manufacturer	GC	X
16200.4	Cuitabagas - Eranchicas	York International (Franchise only)	VARIES Square D and Cutter Hammer	- MADIES	Die	DIC		<u> </u>
16300-1 16300-2	Switchgear - Franchisee Switchgear - Company	Accuserv Accuserv		VARIES VARIES	DIS GC or RSCS (confirm with	DIO GC	GC GC	^  X
155505-2	- Switchigodi - Company	, 1004001 ¥	Togadio Didita Oddor Hammid	WARE O	CM at time of bid)			<b> </b> ^
16500	Light Fixtures - Interior and Building	Capital Light	VARIES	-	Accuserv - DIS; Genesis		GC	X
16520	Light Fixtures Site	Accusery	VARIES	<b> -</b>	- GC	Genesis - GC	lec	
16520 16720	Light Fixtures - Site Telephone Communications	Accuserv YUM! Telecom (Company stores)	VARIES -	<del>-</del>	TB	Manufacturer	Manufacturer (Local Installer)	<sub>X</sub>
	·	By owner through local phone service provider (franchise)		<b>-</b>			Manufacturer (Local Installer)	<u> </u>
16820-3	Music System	Mood Media		F-131	ТВ	Manufacturer	Manufacturer (Local Installer)	Х
	Coffee Brewer	Bunn Creative Meterials	42300.0008	S-547		RSCS Manufacturer	GC	
L	Floor and Wall Tile	Creative Materials	<u> -</u>	<u> -</u>	[GC	Manufacturer	GC	<b> ^</b>



	05/31/18	IFC
	02/19/18	ISSUED FOR PERMIT

BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017
BRAND DESIGNER:

01.08.18

 SITE NUMBER:
 312262/442877

 STORE NUMBER:
 2016088.09

CONTRACT DATE:

TACO BELL

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



140 OPEN KITCHEN MODERN EXPLORER

SCOPE OF WORK
MATRIX

SW1.0

#### **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
- 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
- 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
- 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 RTU'S 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.

<b>MECHANICAL NOTES</b>
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SYMBOL &	ABBREV.	DESCRIPTION	SYMBO	L & ABI
	SA/SUP	SUPPLY AIR (RISE/DROP)		A/C, A
	RA/RET	RETURN AIR DUCT (RISE/DROP)		BDD
	EA/EXH	EXHAUST AIR DUCT (RISE/DROP)		СВ
	CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)		CLG.
	RR/RG	RETURN REGISTER/GRILLE		CONT
Q	ER/EG	EXHAUST REGISTER/GRILLE		CONT'I
		RECTANGULAR DUCT ELBOW WITH TURNING VANES	7	CFM 
	FC	FLEXIBLE CONNECTION	<b>T</b>	DET.
	MCD	MANUAL VOLUME DAMPER	<b>—</b>	DISC.
	FD	DTR		
	(L)	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)		EF
		SINGLE LINING DUCT BRANCH TAKEOFF	(E)	
		DUCT TRANSITION (RECTANGULAR TO ROUND)	T	GA.
	FLEX	FLEXIBLE DUCT (14'-0" MAXIMUM)	T	GC
(T)	T-STAT	PROGRAMMABLE THERMOSTAT, PROVIDED WITH LENNOX PACKAGE	T	HVAC
(TS)		THERMOSTAT SENSOR (REMOTE), PROVIDED WITH LENNOX PACKAGE	7	MFR.
H		HUMIDITY SENSOR (REMOTE), PROVIDED WITH LENNOX PACKAGE		MECH
D	D	CONDENSATE DRAIN	(N)	
Ø	DIA.	DIAMETER	T	OA/OS
——DL——	DL	DOOR LOUVER	7	OBD
——UC——	UC	DOOR UNDERCUT (3/4" MINIMUM)	<b>T</b>	S/S
			_	TYP.
(X-X 0000)		MECHANICAL EQUIPMENT DESIGNATION		UON
R	RESET	SMOKE DETECTOR RESET		UTR

SYMBOL & ABBREV.	DESCRIPTION					
A/C, AC	AIR CONDITIONING					
BDD	BACK DRAFT DAMPER					
СВ	CIRCUIT BREAKER					
CLG.	CEILING					
CONN.	CONNECT/CONNECTION					
CONT.	CONTINUATION					
CONT'R	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** 

				FA	N DATA			CO	OLING CAPACI	ΓΥ	HEATING CAPACITY			UNIT ELECT DATA							
		AREA	SUPPLY	MIN. O.A.				NOMINAL	MIN CAP (MBH)		INPUT STAGE	OUTPUT	HEATING	AFUE	VOLTS/		MOCP	WEIGHT			
V	MARK	SERVED	CFM	CFM	ESP	HP	RPM	TONS	TÒT/SÉN	EER	(MBH)	(MBH)	STAGES	%	PH	MCA (A)	(A)	(LBS.)	MANUF.	MODEL	NOTES
GREEN	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

Akron, OH 44311 330.572.2100 Fax: 330.572.2102

SCHEDULE NOTES:

- 1. LISTED CAPACITY IS THE STANDARD UNIT'S 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.
- 2. 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.
- 3. 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.
- 4. SPECIFIED UNIT INCLUDES FACTORY INSTALLED GAS REHEAT OPTION, INCLUDING REMOTE MOUNTED TEMPERATURE AND HUMIDITY SENSORS AS INDICATED ON THE DRAWINGS.
- 5. SPECIFIED UNIT INCLUDES SUPPLY AIR TEMPERING CONTROL
- 6. PROJECT LOCATIONS NEAR COASTAL AREAS MAY REQUIRE EPOXY COATED COILS. 7. SPECIFIED RTUS SHALL BE SUPPLIED WITH OVERSIZED INDOOR FAN MOTOR AND EVAPORATOR MOTOR.

#### **HVAC UNIT SCHEDULE**

		FAN D	ATA						
Mark	CFM	ESP	RPM	HP	VOLTS/PH	DRIVE TYPE	MANUFACTURER	MODEL	NOTES
EF-1	1050	0.9	1344	1/2	120/1	DIRECT	STRATOVENT	#SVDU50HFA	1,3,5,6,7,8,10
EF-2	300	0.375	1025	1/4	120/1	DIRECT	STRATOVENT	#SVDR30HFA	2,4,7,8,9,10,11
EF-3	500	0.375	1075	1/4	120/1	DIRECT	STRATOVENT	#SVDR30HFA	2.4.7.8.9.10.11.12

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 CO<sub>2</sub>.

#### SUPPLY AND EXHAUST FAN SCHEDULE

			FACE SIZE OR	(NO.) & AIR							
MARK	QUANTITY	NECK SIZE	GRID SIZE	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

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

#### AIR DEVICE SCHEDULE

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

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**

	05/31/18	IFC
Α	04/20/18	BUILDING COMMENTS
	02.16.18	ISSUED FOR PERMIT

T40M-O **BUILDING TYPE:** PLAN VERSION: DEC 2017

BRAND DESIGNER: SITE NUMBER: STORE NUMBER:

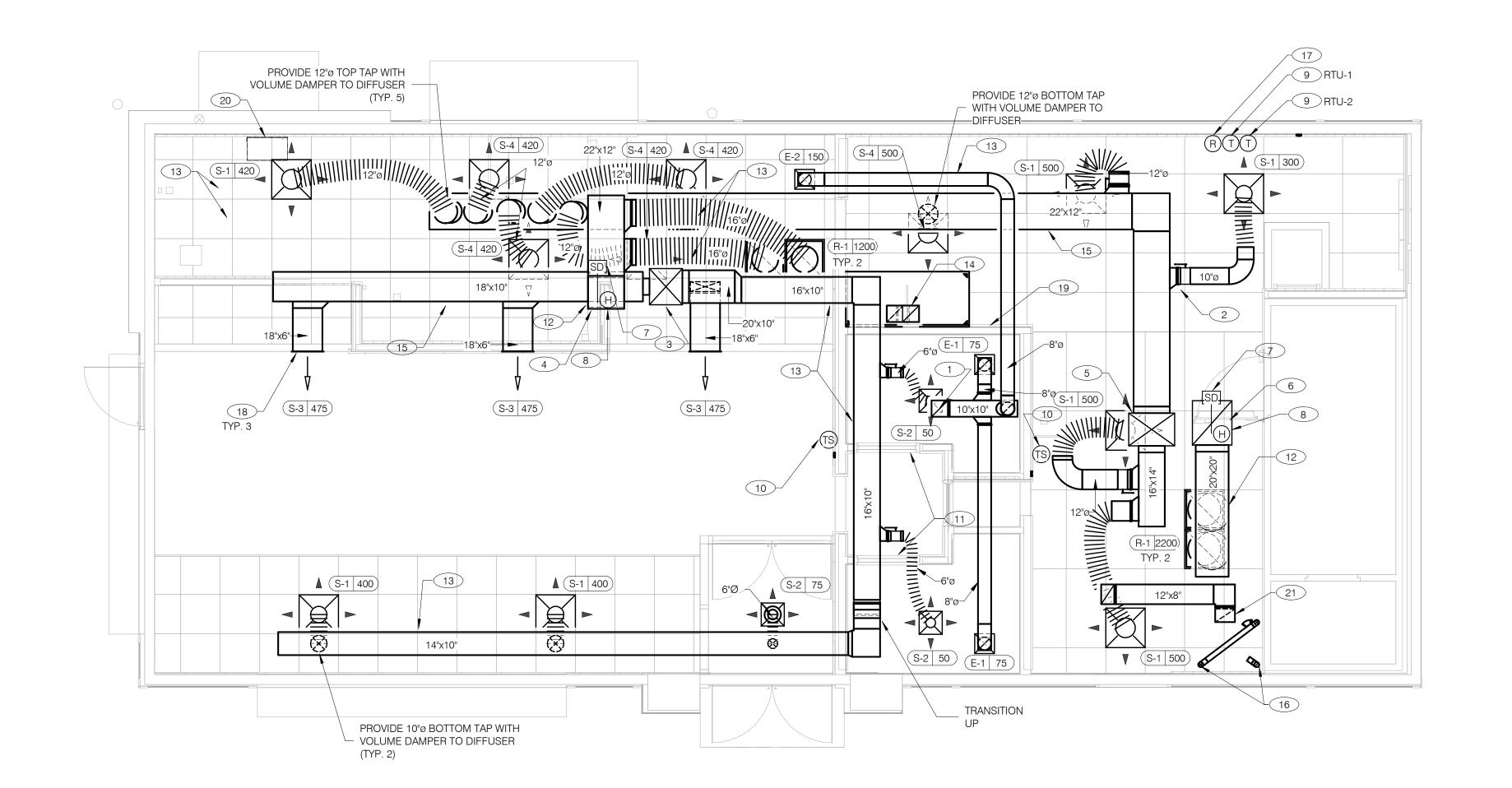
Taco Bell

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



OPEN KITCHEN MODERN EXPLORER

**MECHANICAL SCHEDULES AND NOTES** 







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

A

CONTRACT DATE: **BUILDING TYPE:** 

A 04/20/18 BUILDING COMMENTS

02.16.18 ISSUED FOR PERMIT

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

PLAN VERSION:

BRAND DESIGNER: SITE NUMBER: 312262/442877

STORE NUMBER:

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

01.08.18

T40M-O

DEC 2017

2016088.09



T40M-O OPEN KITCHEN MODERN EXPLORER

**DUCT AND DIFFUSER PLAN** 

DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS.

THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE. REMOTE TEMPERATURE SENSOR, AND REMOTE HUMIDITY

HUMIDITY SENSOR APPLICATION IS VARIABLE PER SITE SPECIFIC CONDITIONS. REFER TO HVAC UNIT SCHEDULE, 1/M1.0, FOR APPLICATION CONDITIONS.

COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND

STRUCTURAL. NO FLEX DUCT ALLOWED ON EXHAUST SYSTEMS. HVAC TEST AND BALANCE: CONTRACTOR TO CONTACT ONE OF THE FOLLOWING COMPANIES TO PERFORM THE HVAC AIR BALANCE.

TEST AND BALANCE CORP. MISTY CRIDER (678) 393-9401 EXT.2237 isextonkeeton@tabonline.com

MELINK CORP. JENNIFER JACKSON (513) 393-9401 EXT. 2237 kjohnson@melinkcorp.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.

**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.

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).

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.

COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.

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.

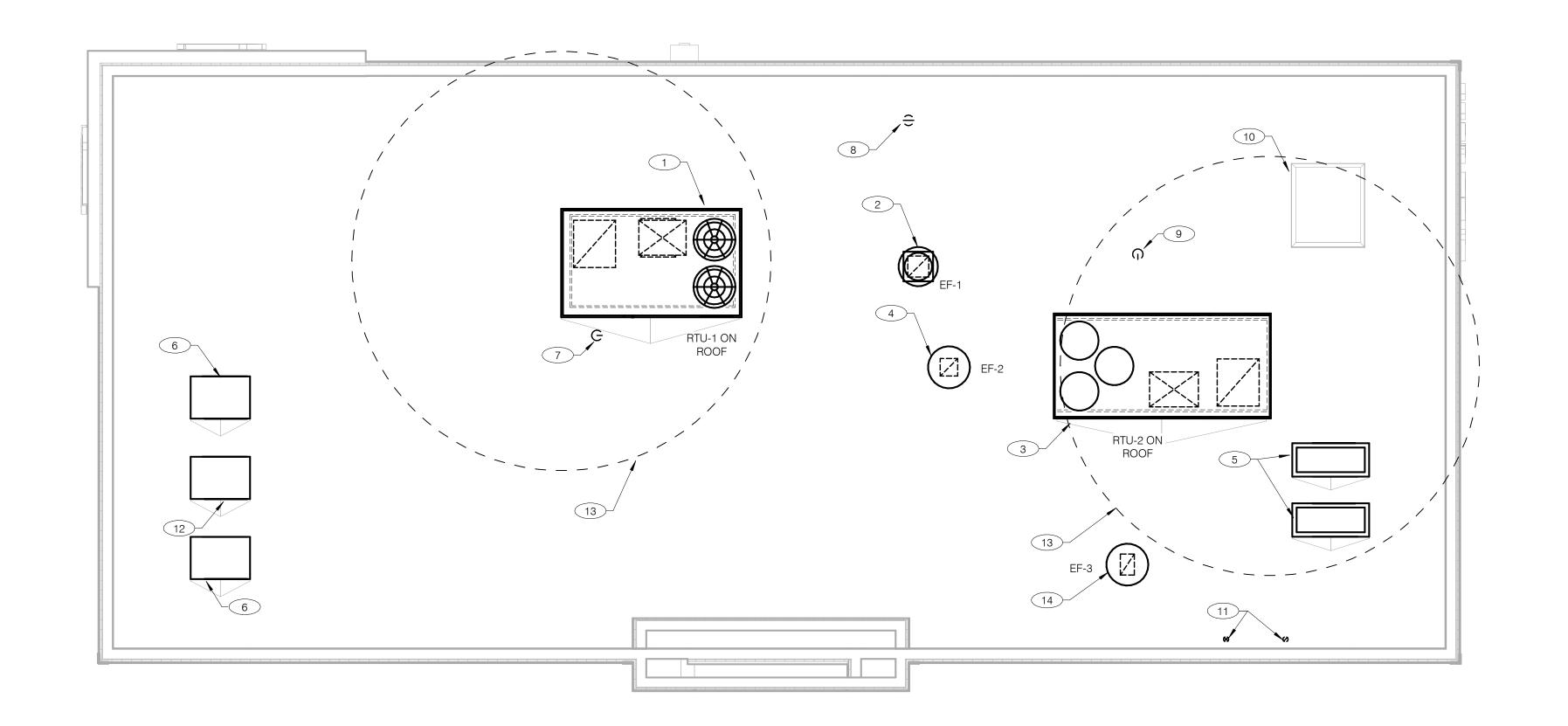
18 INSTALL SIDE-WALL MOUNTED GRILLE AT APPROXIMATELY 10'-8" A.F.F. CONNECT GRILLE TO SUPPLY DUCT AND PROVIDE WITH VOLUME DAMPER AT CONNECTION PAINT TO MATCH ADJACENT CONDITIONS.

(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 BESIIDE CO<sub>2</sub> TANK AND TERMINATE WITH TITUS 350RL 10"x10" EXHUAST GRILLE. EXHAUST GRILLE SHALL BE A MAXIMUM OF 1'-0" A.F.F.





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"

- 1 CONTRACTOR TO PROVIDE AND INSTALL RTU-1 IN LOCATION AS SHOWN ON PLANS.
  COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS
  I AYOUT
- 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
- 3 CONTRACTOR TO PROVIDE AND INSTALL RTU-2 IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS
- 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.
- 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.
- 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.
- 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.
- 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.

05/31/18 IFC
A 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

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Taco Bell

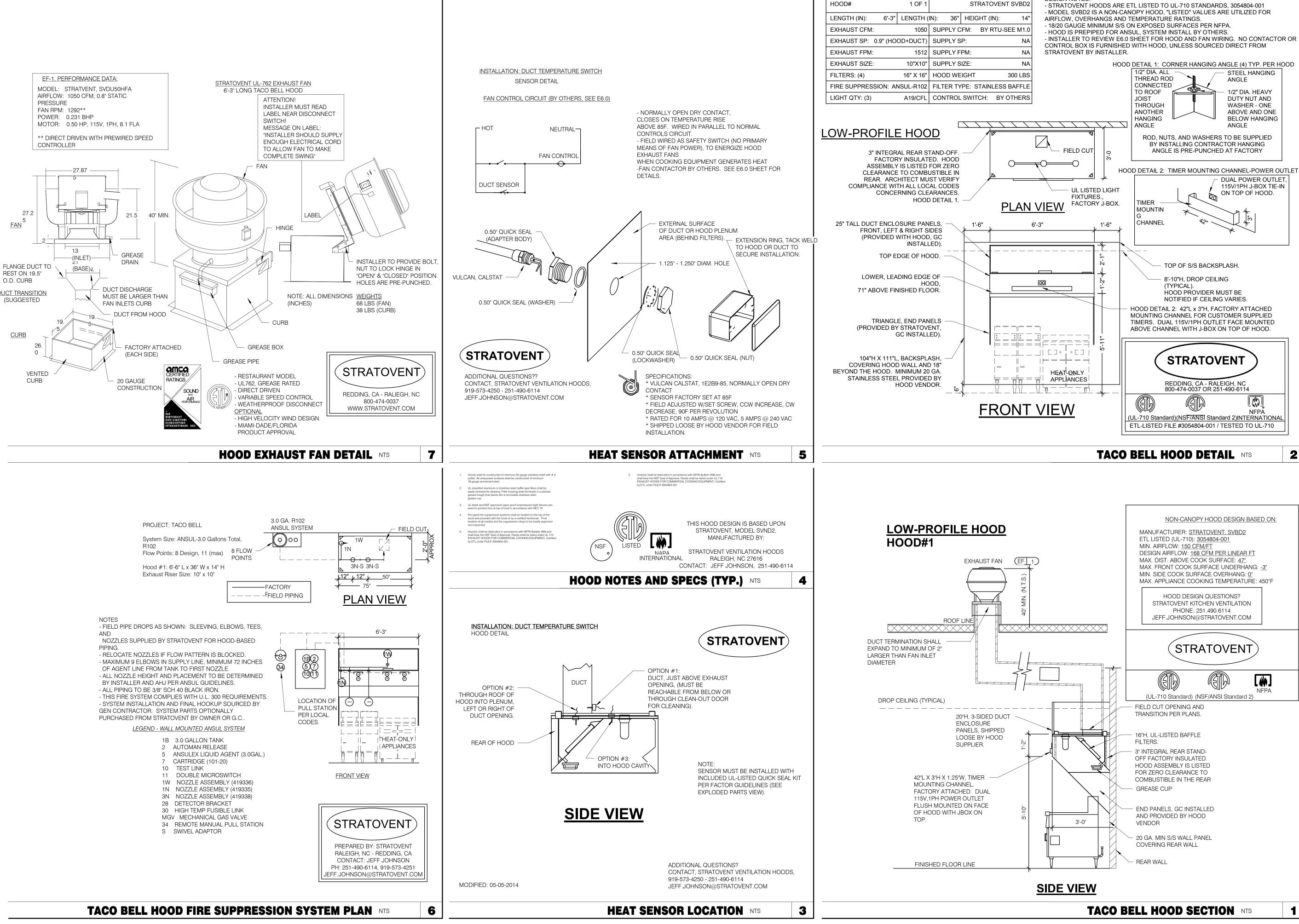
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140IVI-O
OPEN KITCHEN
MODERN EXPLORER

MECHANICAL ROOF PLAN

M2.1



Professional Corporation 520 South Main Street, Suite 2531 STEEL HANGING ANGLE 330.572.2100 Fax: 330.572.2102 1/2" DIA. HEAVY **DUTY NUT AND** WASHER - ONE ABOVE AND ONE BELOW HANGING ANGLE DUAL POWER OUTLET, 115V/1PH J-BOX TIE-IN ON TOP OF HOOD.

2

FOR REFERENCE ONLY

Akron, OH 44311

√ 04/20/18 BUILDING COMMENTS 02.16.18 ISSUED FOR PERMIT

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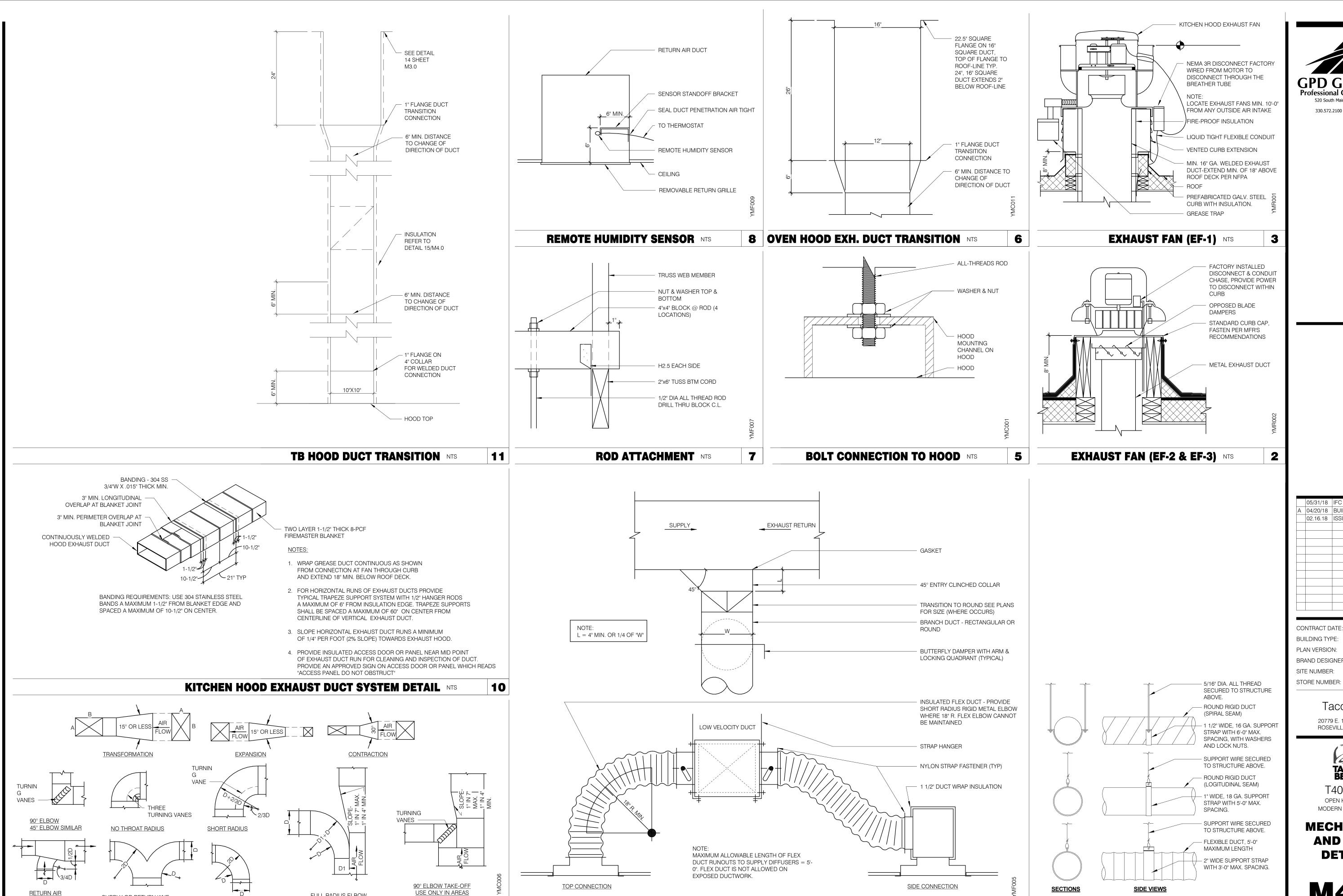
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T40M-O OPEN KITCHEN MODERN EXPLORER

**HOOD DRAWINGS PLANS AND SECTIONS** 

**M3.0** 



CEILING DIFFUSER CONNECTIONS NTS

4

**DUCT SUPPORT DETAIL NTS** 

FULL RADIUS ELBOW

TYPICAL DUCTWORK DETAILS NTS

WHERE SPACE IS

9

SUPPLY OR RETURN WYE

(RECTANGULAR DUCT)

FULL RADIUS

BRANCH FITTING

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

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T40M-O OPEN KITCHEN MODERN EXPLORER

**MECHANICAL AND HOOD DETAILS** 

1. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY

2. ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.

3. VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER

4. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.

5. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.

6. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.

7. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.

8. PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.

9. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.

10. PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT, FOR EACH APPLIANCE INSTALL QUICK DISCONNECT, FLEXIBLE PIPE WHEN ALLOWED BY CODE AND RESTRAINING DEVICE FURNISHED BY OWNER. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE. IF GAS PRESSURE GREATER THAN 10"/wc IS USED DOWNSTREAM FROM THE GAS METER.

11. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.

12. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR U.O.N.

13. REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.

14. ALL GAS LINES SHALL BE SUPPORTED SEE SPECS.

15. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.

16. PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.

17. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.

18. PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.

19. COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND

20. FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0"

21. PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.

22. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.

23. ALL WATER LINES SHALL BE RUN OVERHEAD U.O.N.

24. ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.

25. PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.

26. PVC SCHEDULE 40 WASTE PIPE CAN BE SUBSTITUTED FOR BLACK IRON WASTE PIPE WHERE ALLOWED BY LOCAL MUNICIPALITIES.

## GENERAL NOTES - PLUMBING NTS

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

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
0	H.D.	HUB DRAIN
	OFD	OVERFLOW DRAIN
$\boxtimes$	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
(X-X 0000)		PLUMBING EQUIPMENT DESIGNATION
<u>⟨xxx⟩</u>		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DESCRIPTION.
		SOIL OR WASTE (SANITARY)/WASTE STUB
		SOIL OR WASTE (GREASE WASTE)/WASTE STUB
	G	GAS / GAS STUB
	cw	COLD WATER/ CW STUB
	HW	HOT WATER / HW STUB
	H.W.R.	HOT WATER RETURN
	V	SANITARY VENT
—— SD ——	S.D.	STORM DRAIN
	C.D.	CONDENSATE DRAIN
<del></del>	F.C.O.	FLOOR CLEANOUT OR CLEANOUT TO GRADE
<b> </b>	W.C.O.	WALL CLEANOUT
FW	FW	FILTERED WATER
TW	TW	PREMIXED TEMPERATURE WATER
<u>+</u>	H.B.	HOSE BIBB
	S.O.V.	SHUT-OFF GATE VALVE
<u></u>	S.O.C.	SHUT-OFF GAS COCK
	C.V.	CHECK VALVE
<u></u>	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
<b>[</b>	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

FIVELIDE		NO.	DR	RAIN	COLD	WATER	HOT WATER	
FIXTURE	NO.	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 FILTRA	TION 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
RETHERMALIZER *		1					1.0	1.0
TOTAL				61		20.75		14.27
PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS:	DRAIN: SAN 2	0.75 FU 9 DFU 2 DFU 4.25 FU			US US	SE 1-1/2" SE 4" SA SE 4" SA SE 1-1/4"	NITARY NITARY	(MIN) (MIN)

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMP'D WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
	EXTERIOR								CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED	JOSAM / MODEL: 56000
(ECO 1)	CLEANOUT								HEAVY CAST IRON COVER.	WADE / MODEL: 6000Z
										ZURN / MODEL: Z-1400
									PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER	JOSAM / MODEL: JPFS4-PVC
FS 1	FLOOR SINK	4"	2"				6		AND LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLUSH WITH FLOOR TILE.	ZURN / MODEL: FD-2370-PV4-DS-F
									CAST IRON 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM DOME STRAINER	JOSAM / MODEL: 49034AS
FS 2	FLOOR SINK	3"	2"				6		AND NICKEL BRONZE HINGED TOP.	WADE / MODEL: 9144
										ZURN / MODEL: Z-1900-32
									PVC FLOOR DRAIN, 5" DIA. IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 PVC	ZURN / MODEL: FD-2210
$ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $	FLOOR DRAIN	3"	2"				2		DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN.	JOSAM / MODEL: 30003-A
										WADE / MODEL:1103
									CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED	JOSAM / MODEL: 88213
HD 1	HUB DRAIN	3"	2"				2		CLEANOUT PLUG.	WADE / MODEL: 2453EF
										ZURN / MODEL: Z-1019
	FI 00D								CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000
FCO 1	FLOOR CLEANOUT								HEAVY CAST INON COVEN.	WADE / MODEL: 6000Z
	CLL/ ((VCC)									ZURN / MODEL: Z-1400
(iiiaal )	WALL								CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS	JOSAM / MODEL: 58510
WCO 1	CLEANOUT								PLUG, WITH STAINLESS STEEL ACCESS COVER.	WADE / MODEL: 8560E
										ZURN / MODEL: Z-1446-BP
	LIGOE DIDD			0 / 411				0.5/4	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND NICKEL BRONZE BOX.	JOSAM / MODEL: 71000
HB 1	HOSE BIBB			3/4"				2.5/1	AND NICKEL BRONZE BOX.	WADE / MODEL: 8600L
										ZURN / MODEL: Z-1300
									WHITE VITREOUS CHINA FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.1 GPF, WITH OPEN FRONT SEAT LESS COVER,	AM. STD. "CADET" / MODEL: 2467.100
	WATER								OLSENITE #95 OR EQUIVALENT. FLUSHOMETER TANK: SLOAN FLLUSHMATE OR EQUAL. PROVIDE TANK	KOHLER "HIGHLINE" / MODEL: K-3519
(WC 1)	CLOSET	4"	2"	1/2"			4	2	COVER LOCKS. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND	CRANE "ECONMISER" / MODEL: 31888
	GRE	EN							WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS	
									WALLED VIEW OF THE CONTROL OF THE CO	A.S. COMRADE/ MODEL: 0124.131
									WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT, 4" CENTERS, WITH INTEGRAL BACKSPLASH, ADA ACCESSIBLE. FLAT GRID STRAINER. BRAIDED WATER LINES. FAUCET: FURNISHED BY	<u>'</u>
$\lfloor L \rfloor 1$	LAVATORY GRE	1-1/4"	1-1/2"	1/2"		1/2"	1	1.5	OWNER-INSTALLED BY G.C. ELECTRONIC SENSOR TYPE FAUCET. SLOAN SF-2300, ADA COMPLIANT.	CRANE "HARWICH" / MODEL: 1412V
									SEE 5/P6.0 FOR LAV SUPPORT DETAIL, .5 GPM AERATOR	
									S-1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS. FAUCET W/FOOT	
S 1	HAND SINK GRE	1-1/2"	1-1/2"	1/2"		1/2"	2	1.5	VALVE. BRAIDED WATER LINES, 0.5 GPM AERATOR.	
	[5.15]									
									MOP SINK: AERO - 3MP-2121-6 W/ 48" HIGH S.S. LEFT SIDE AND BACK-SPLASH. FURNISHED BY OWNER,	
$\left(\begin{array}{c c} S & 2 \end{array}\right)$	MOP SINK	3"	2"	1/2"	1/2"		3	2.25	INSTALLED BY G.C. FAUCET: T&S #B2465, WITH VACUUM BREAKER, FURNISHED BY OWNER, INSTALLED BY G.C.	
	3-COMP.								SINK, FAUCET & DRAIN, GEN IV POWER SOAK STANDARD, GEN III IS AN OPTION FOR FRANCHISES	
(S   3)	SINK	INDIRECT		1/2"	1/2"			3	PRANCHISES	
								_	SINK, FAUCET AND DRAIN	
S 4	PREP SINK	INDIRECT		1/2"	1/2"			3		
									DDECACT 4 000 CALLON ODE ACE INTERCEPTOR WITH CAMPLING DOV. CEE CITE DLAN FOR	IFNOFNI / ID1000C
	GREASE	4"							PRECAST 1,000 GALLON GREASE INTERCEPTOR WITH SAMPLING BOX. SEE SITE PLAN FOR EXTERIOR GREASE INTERCEPTOR LOCATION.	JENSEN / JP1000G
GI 1	INTERCEPTOR	4"								<del></del>
									THERMOOTATIO AGE DE LA GOOME DE CANTE DO DIVIDENCIA DE CONTRE DO DIVIDENCIA DE CONTRE DO CONTRE	POWERS SERIES LFLM495
MV 1	MIXING			1/2"	1/2"	_	_		THERMOSTATIC, 125 P516, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.	LAWLER SERIES 310
	VALVE		- <del>-</del>	1/4	1/4	]			S. LOT WILL COLLET LITTLE CONNECTIONS.	LEONARD SERIES 170
									OAO FIDED WATER HEATER OF ON THERMAN FEEL AGO COO STUMMENT AGO CAN GEORGE TOWN AND STUMMENT	AO SMITH / BTH-199
WH 1	WATER			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	//O CIVILITY DITT 188
	HEATER		_	' '/-	' '/¬		_		IGNITION SYSTEM AND ELECTRONIC CONTROLS. Call 800-477-1953 Option #1 for National Account Price & Service	
									EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON CAPACITY.	WATTS SERIES DETA
ET 1	EXPANSION			3/4"					EXTAGORA TAININ, OTELE, EXTAGORA MENDINAME 1901 OI, 100 1, 12 CALLON CAPACITI.	AMTROL SERIES ST
	TANK			]						WILKINS SERIES WXTP
									REDUCED PRESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION WITH	WATTS / MODEL: LF009M2QTS
(BFP 1)	BACKFLOW PREVENTOR			VERIFY				1	QUARTER TURN FULL-PORT BALL VALVES AND BRONZE STRAINER.	WILKINS / MODEL: 275XLS
	FUEVENION			]						FEBCO / MODEL: 860
									REVERSE OSMOSIS FILTER SYSTEM	
(RO 1)	REVERSE	INDIRECT		1/2"					BY OWNER	
	OSMOSIS								SEE TO DETAIL 9/P6.0	
	ļ	<u>ı                                      </u>	<u> </u>	1	<u> </u>	1	<u> </u>	<u> </u>		·

PLUMBING FIXTURE SCHEDULE NTS

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

REQUIREMENTS.

CONTRACT DATE: **BUILDING TYPE:** PLAN VERSION: BRAND DESIGNER: SITE NUMBER: STORE NUMBER: **SCHEDULES AND** 

2

05/31/18 | IFC

A 04/20/18 BUILDING COMMENTS

02.16.18 ISSUED FOR PERMIT

01.08.18

T40M-O

DEC 2017

312262/442877

Taco Bell

20779 E. 13 MILE RD.

ROSEVILLE, MI 48066

OPEN KITCHEN MODERN EXPLORER

**PLUMBING** 

**NOTES** 

2016088.09

Akron, OH 44311

330.572.2100 Fax: 330.572.2102

GREASE TRAP SIZING NTS

KEYNOTES NTS

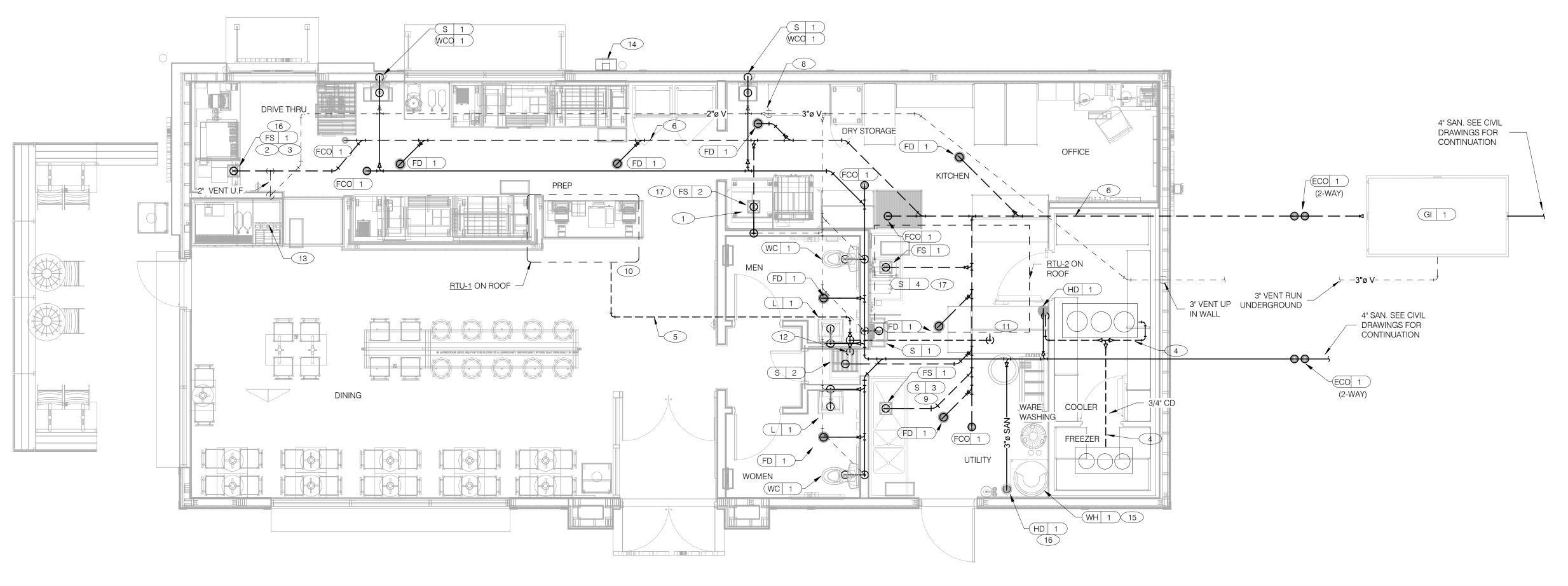
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PLUMBING FIXTURE COUNT NTS

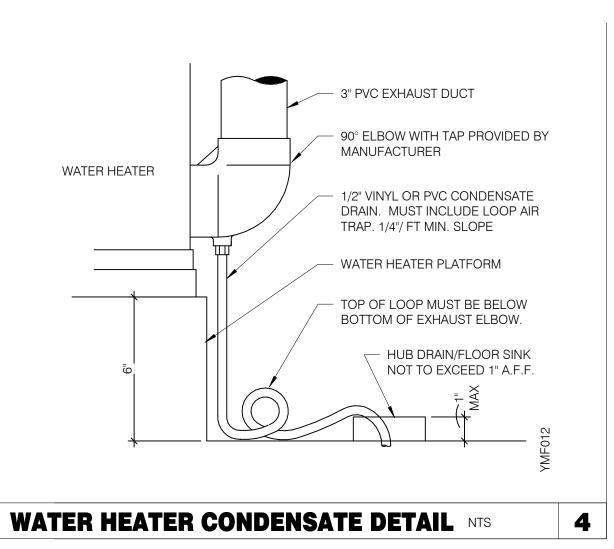
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# WASTE & VENT PIPING PLAN 1/4" = 1'-0" 1



- 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.
- 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
- PROVIDE 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO HUB DRAIN WITH APPROVED AIR GAP (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE).
- 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.

- 1" CONDENSATE DRAIN DOWN FROM RTU-1. SEE DETAIL 13/P6.0.
- 1 1" CONDENSATE DRAIN DOWN FROM RTU-2. SEE DETAIL 13/P6.0.
- 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.
- RUN DRAIN LINE FROM S/S DRINK MACHINE THRU WALL OP'G. TO OUTFALL AT FS BENEATH D/T DRINK MACHINE.
- 14 DOWN SPOUT, SEE CIVIL PLANS FOR CONTINUATION.
- ROUTE INDIRECT WASTE FROM WH-1 TO HD-1. REFERENCE DETAIL 2/P6.0 AND DETAIL 4/P2.0.
- COORDINATE INSTALLATION OF DRAIN WITH POURING OF FOUNDATION DURING CONSTRUCTION.
- 17 ROUTE INDIRECT DRAIN FROM FIXTURE TO FLOOR SINK WITH APPROVED AIR GAP.

	05/31/18	IFC
Α	04/20/18	BUILDING COMMENT
	02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
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Taco Bell 20779 E. 13 MILE RD.

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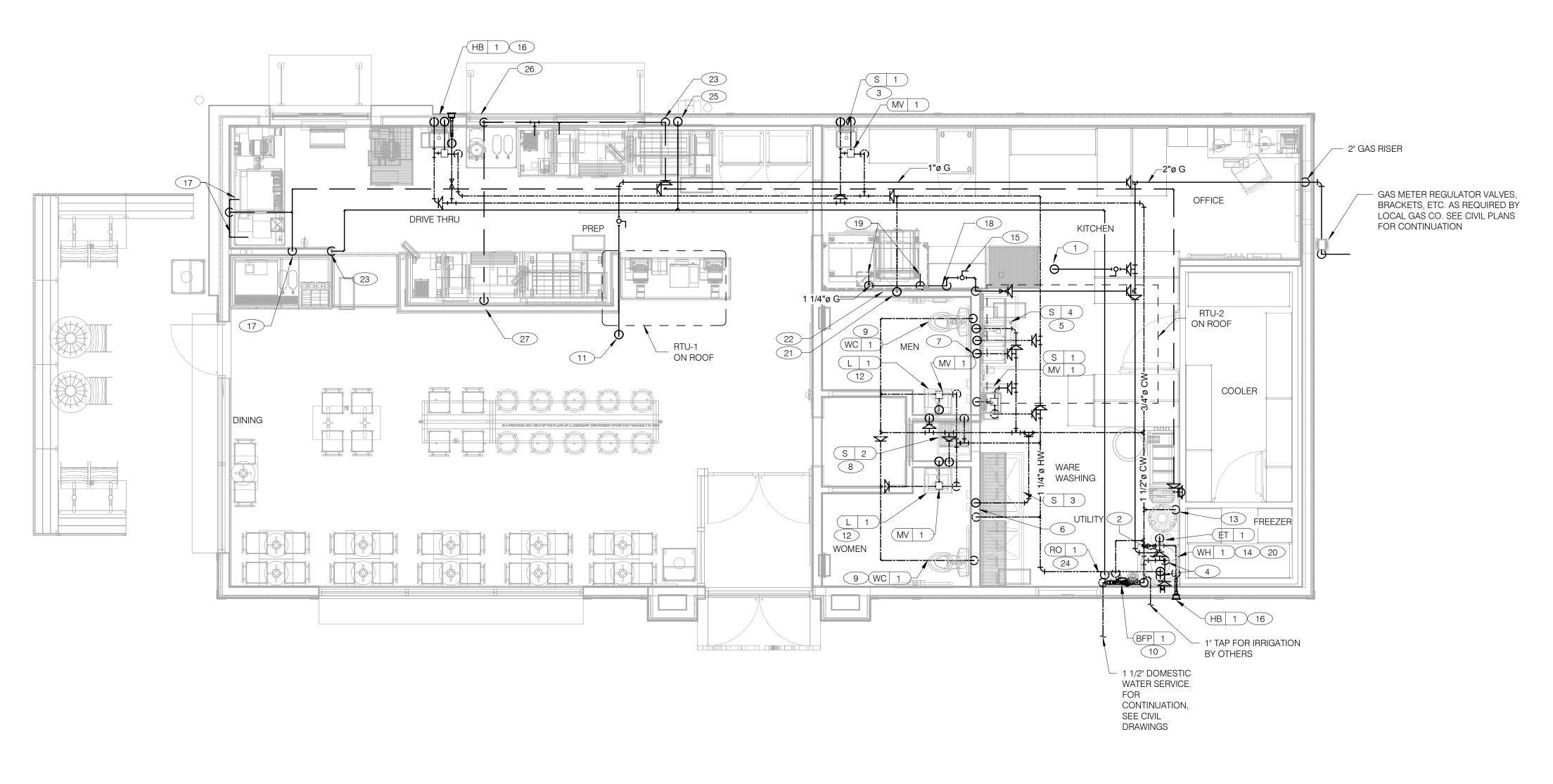
T40M-O
OPEN KITCHEN
MODERN EXPLORER

WASTE AND VENT PLAN

**P2.0** 

WASTE & VENT PLAN NOTES NTS 3 KEYNOTES - WASTE AND VENT NTS







- 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

- 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 DEVISE 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 .
- REDUCED PRESSURE BACKFLOW PREVENTER LOCATED PER LOCAL UTILITY REQ'S. PIPE RELIEF TO HUB SINK.
- 1" (108 CFH) GAS UP TO RTU-1 WITH DIRT LEG, GAS COCK, UNION.
- 1/2" TEMPERED WATER LINES DOWN IN WALL TO LAVATORY.
- 3/4" CW DOWN ALONG WALL TO WATER FILTER S-286.
- 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.

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

FLEXIBLE GAS HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT.

- 21 1/2" HOT WATER DOWN IN WALL TO TB RETHERMALIZER C-107. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO
- 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.

	05/31/18	IFC
Α	04/20/18	BUILDING COMMENTS
	02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
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Taco Bell

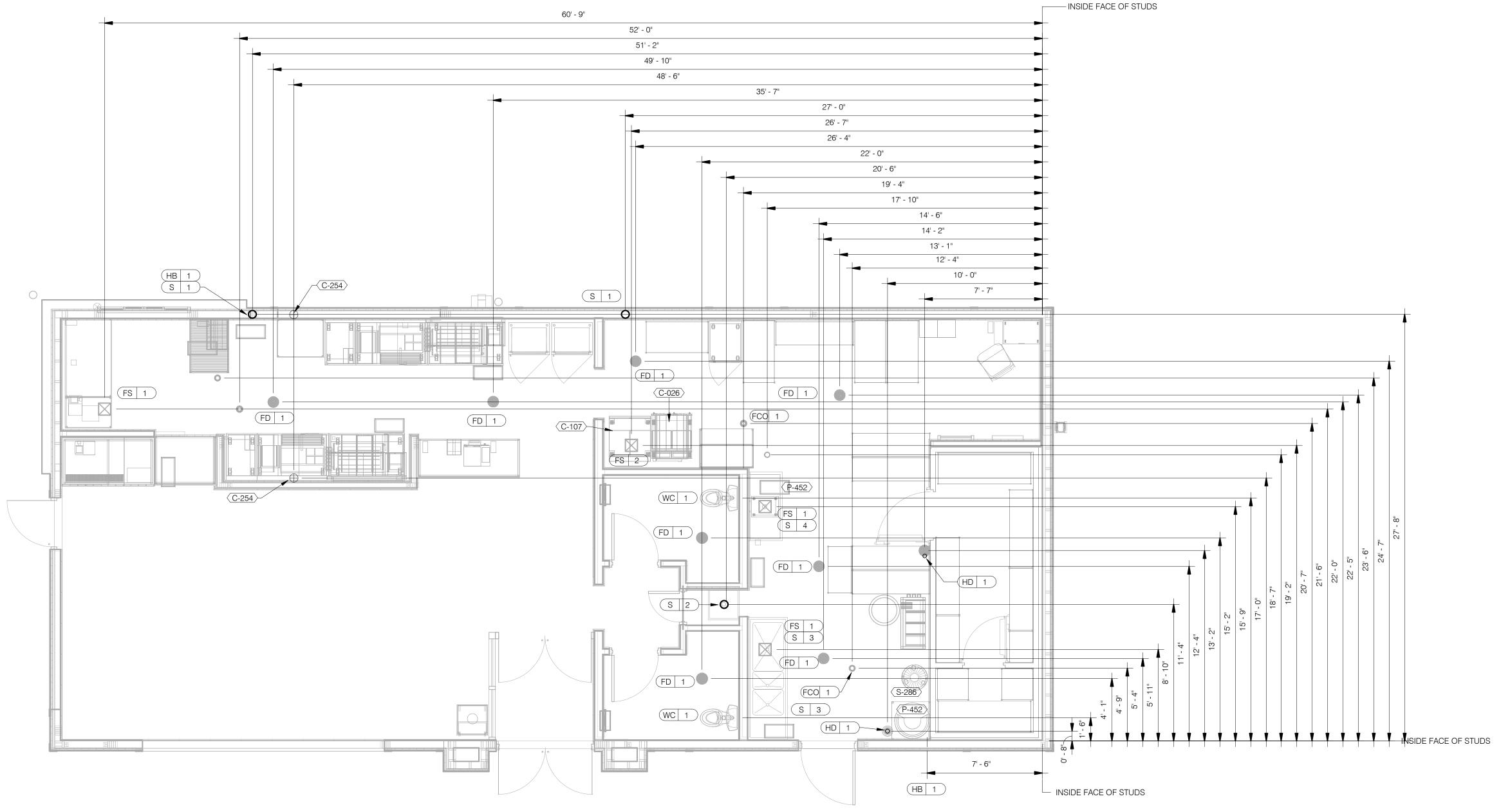
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T40M-O
OPEN KITCHEN
MODERN EXPLORER

WATER AND GAS PLAN

**P3.0** 



PLUMBING ROUGH-IN SCHEDULE NTS

BUILDING BOUGH IN BUAN			CONTRACT DATE:
PLUMBING ROUGH-IN PLAN	1/4" = 1'-0"	7	BLIII DING TYPE:

EQUIP#	EQUIPMENT ITEM	TYPE ELEVATION	REMARKS	EQUIP#	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS	• HOT WATER
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		│ ⊗ TEMPERED WATER
HD 1	HUB DRAIN			WCO 1	WALL CLEAN OUT				G GAS
WH 1	WATER HEATER	CW		FCO 1	FLOOR CLEAN OUT				
WH 1	WATER HEATER	G +15" A.F.F.		(HB 1)	HOSE BIB				FLOOR DRAIN
WC 1	WATER CLOSET FLUSH VALVE	CW +29" A.F.F	BOTH HANDICAP AND REGULAR						FLOOR SINK
UR 1	URINAL FLUSH VALVE	CW +47" A.F.F.	WALL MOUNTED						
UR 1	URINAL WASTE STUB	W +16-1/2" A.F.F.	WALL MOUNTED	⟨C-107⟩	RETHERMALIZER	HW	+8" A.F.F.		● HUB DRAIN
L 1	LAVATORY	TW +20" A.F.F.		⟨C-107⟩	RETHERMALIZER	G	+12" A.F.F.		   ◆ WASTE OUTLET
L 1	LAVATORY WASTE LINE	W +16-1/2" A.F.F.		(C-026)	DUAL VAT FRYER	G	+12" A.F.F.		, , , , , , , , , , , , , , , , , , , ,
(RO 1)	REVERSE OSMOSIS	CW +84" A.F.F							Φ FLOOR CLEANOUT
S 1	HAND SINK	TW +18" A.F.F	RIM OF LAV @ +2'-8" A.F.F.	(S-254)	CHEESE MELTER	FW	+12" A.F.F.		│ │
S 2	MOP SINK	W -6" A.F.F.	RECESSED IN FLOOR	(S-286)	WATER FILTER SYSTEM	CW	+94" A.F.F.	INLET TO & OUTLET FROM FILTER	
	MOP SINK FAUCET	CW/HW +36" A.F.F							O FILTERED WATER
S 3	3-COMPARTMENT SINK	W +19" A.F.F		(P-452)	HOT WATER SYSTEM	CW	+24" A.F.F.		 

- 1. ALL DIMENSIONS TO FLOOR SINKS, FLOOR DRAINS AND HUB DRAINS ARE TO CENTER OF FIXTURE.
  - 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON 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.
- STORE NUMBER:

Taco Bell

PLAN VERSION:

SITE NUMBER:

BRAND DESIGNER:

05/31/18 IFC

A 04/20/18 BUILDING COMMENTS 02.16.18 ISSUED FOR PERMIT

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

20779 E. 13 MILE RD. ROSEVILLE, MI 48066

T40M-O

DEC 2017

312262/442877

2016088.09



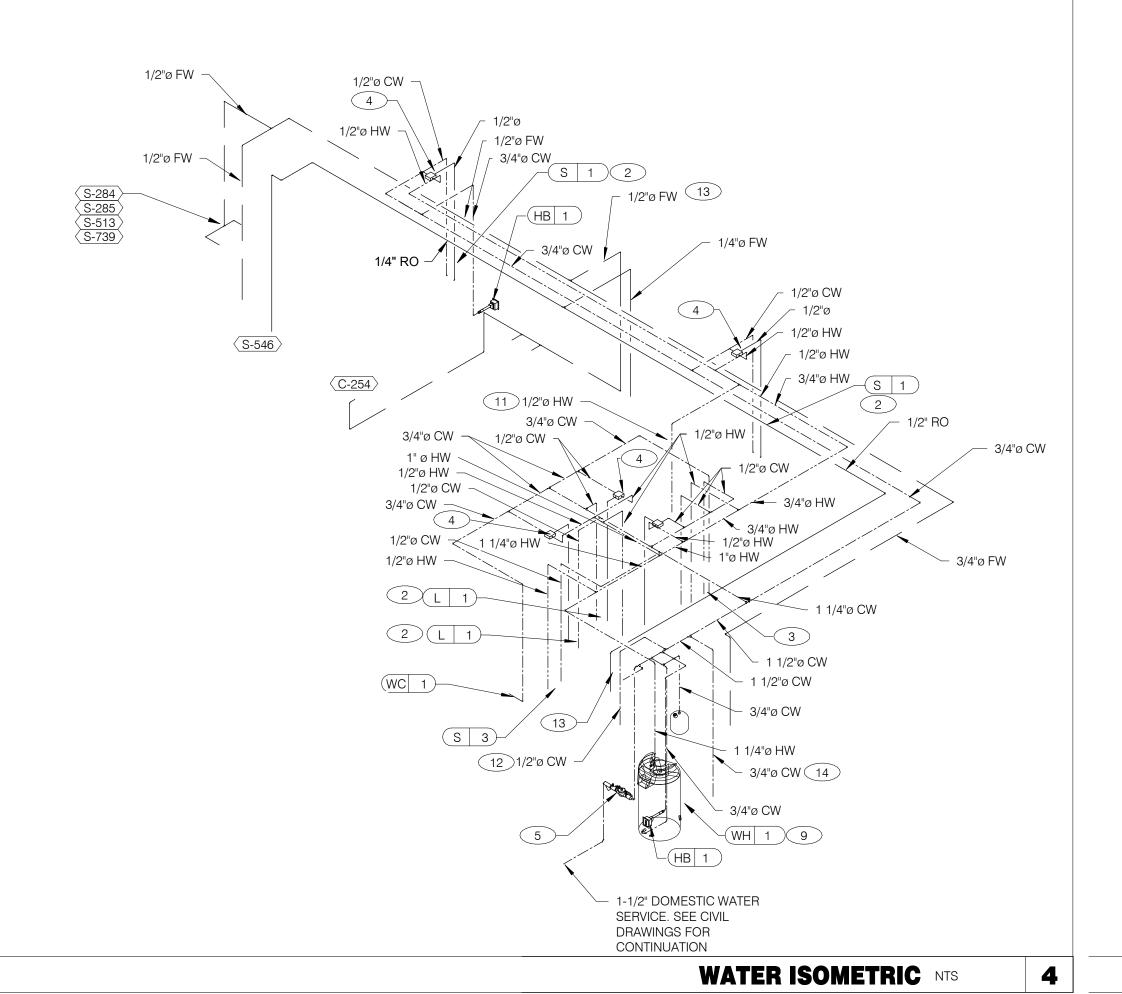
OPEN KITCHEN MODERN EXPLORER

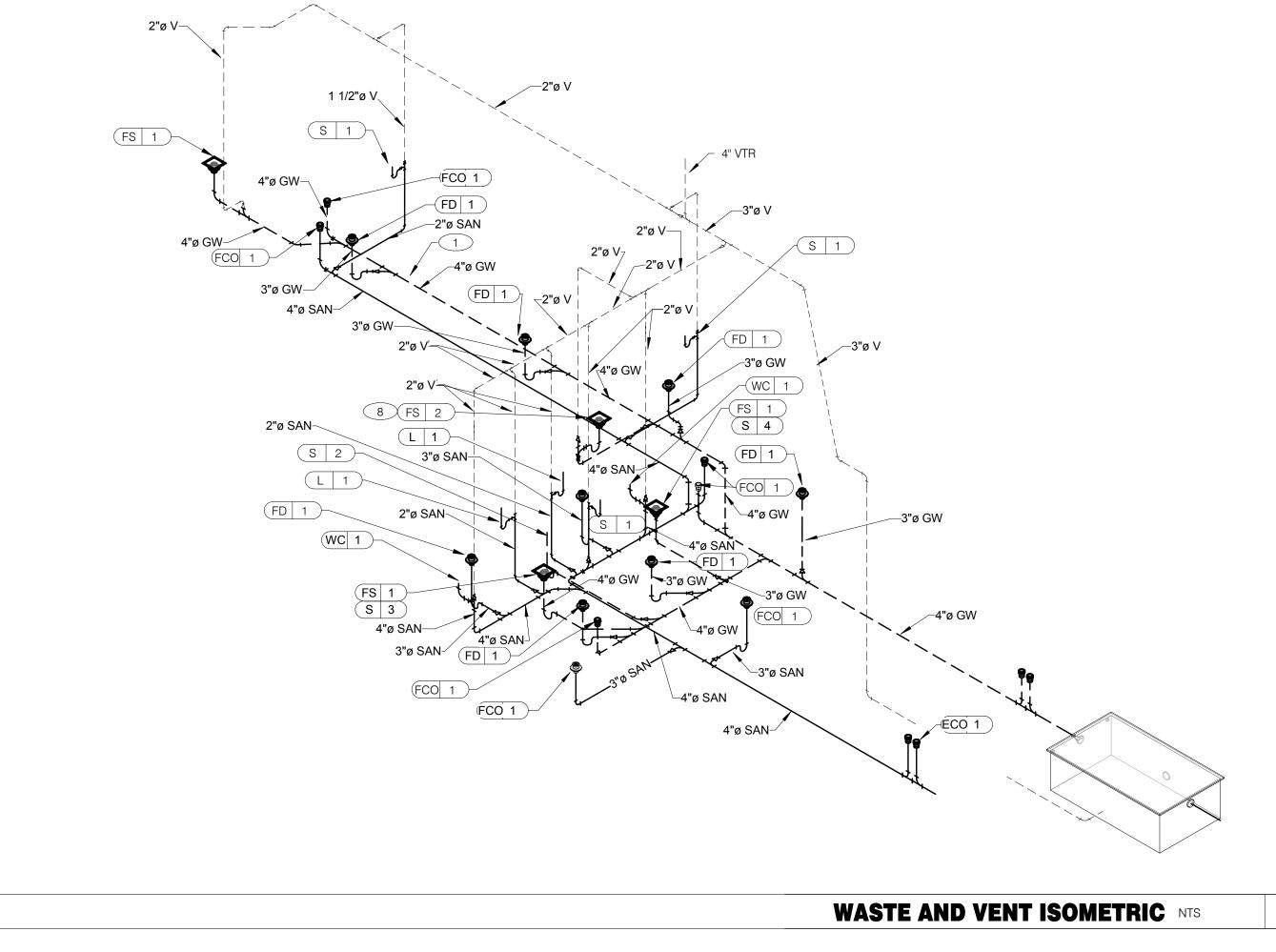
**PLUMBING ROUGH-IN PLAN** 

PLUMBING ROUGH-IN NOTES NTS

WATER LINE THRU FLOOR

SYMBOL LEGEND NTS

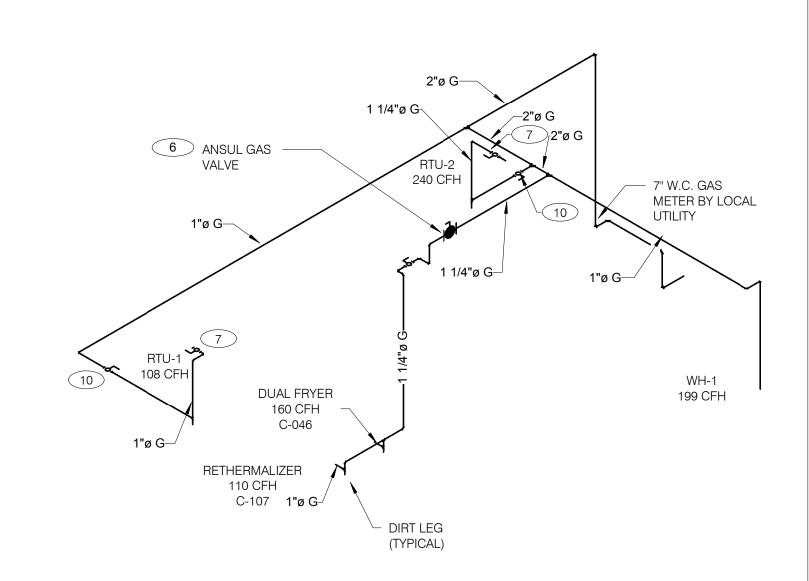


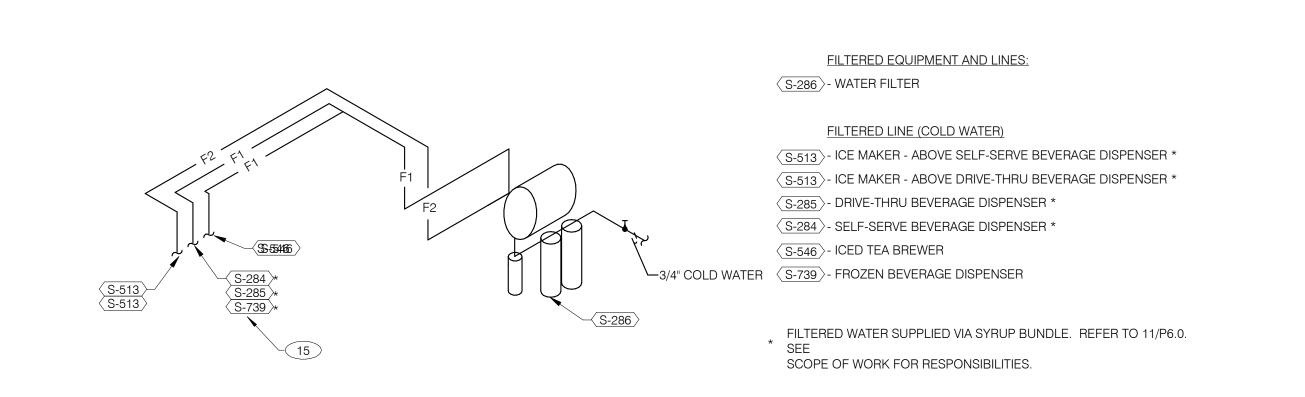


RTU-1		108 CFH
RTU-2		240 CFH
WH-1		199 CFH
DUAL FRY	ΈR	160 CFH
RETHERMAL	LIZER	110 CFH
DEMAND	817.0 CFH =	817,000 BTUH
NOTE: COORDINATE GA	S DEMAND	
REQUIREMENTS WITH SITE-SPECIF	FIC RTU DESI	GN.

PIPE SIZE BASED ON 120' OF PIPE

7" W.C.





1 ENTIRE RUN OF DRAIN LINES ON INLET TO GREASE TRAP SHALL BE SCHEDULE 40 PVC OR NO HUB CAST IRON AS REQUIRED BY CODE.

2 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK / LAVATORY.

3 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK AND 1/2" COLD WATER TO WATER FILTER FOR HOT WATER SYSTEM P-450.

4 THERMOSTATIC MIXING VALVE.

REDUCED PRESSURE BACKFLOW PREVENTER PER LOCAL UTILITY REQ'S. PROVIDE SHUT-OFF VALVES AT BOTH SIDES OF BACKFLOW PREVENTER. VERIFY LOCATIONS WITH CIVIL DWGS.

6 EMERGENCY GAS SHUT-OFF VALVE (NORMALLY CLOSED) SHALL BE ELECTRIC SOLENOID TYPE WITH SPRING RETURN AND 24 VOLT ACTUATOR, SUITABLE FOR USE ON GAS PIPING SYSTEMS. VALVE SHALL BE ACTIVATED BY ANY OF THE EXHAUST HOOD FIRE SUPPRESSION SYSTEM. PROVIDE RELAYS AS REQUIRED TO ACTIVATE SHUT-OFF VALVE.

7 FACTORY GAS PIPING AT ROOF TOP UNIT FOR THROUGH THE BASE PIPE CONNECTION. SHUT-OFF VALVE SHALL BE LOCATED OUTSIDE OF THE UNIT.

8 PROVIDE NO HUB CAST IRON PIPE FOR FIRST 10 FEET OF PIPE FROM CONNECTION TO FLOOR SINK FS-2

9 PIPE T&P RELIEF VALVE TO OUTSIDE OF BUILDING OR TO HUB DRAIN, RUN FULL SIZE PIPE FROM VALVE WITH TYPE "K" COPPER TUBING.

GAS SHUT-OFF VALVE IN CEILING SPACE BY G.C.

1/2" HOT WATER PIPE DOWN IN WALL. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO TB RETHERMALIZER.

FILTERED WATER ISOMETRIC NTS

1/2" COLD WATER CONNECT TO REVERSE OSMOSIS FILTER AND 1/2" FILTERED WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF ON CW PIPE PRIOR TO CONNECTION TO FILTER.

1/2" FILTERED WATER FROM REVERSE OSMOSIS FILTER DOWN IN UTILITY CHASE OF M.A.P.S. LINE. PROVIDE SHUT-OFF VALVE ON FW PIPE IN CEILING NEAR UTILITY CHASE.

1/2" COLD WATER TO WATER SYSTEM FILTER.

TEE OFF 3/8" LINE FROM DRIVE THRU BEVERAGE DISPENSER FILTERED WATER SUPPLY. SEE DETAIL 8/P6.0.

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	05/31/18	IFC
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	02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.08.18
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2016088.09

Taco Bell

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20779 E. 13 MILE RD.

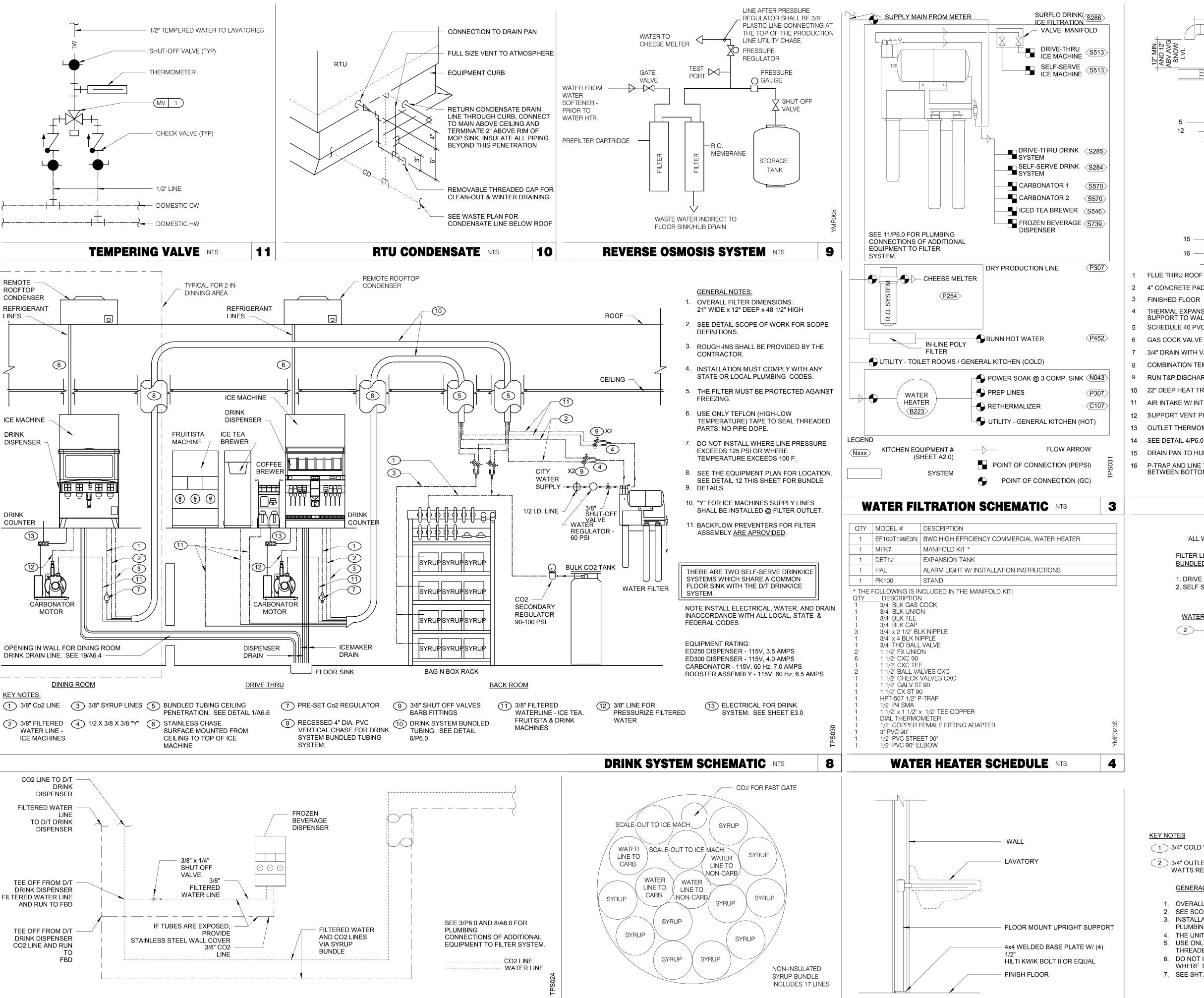
ROSEVILLE, MI 48066



T40M-O
OPEN KITCHEN
MODERN EXPLORER

## RISER DIAGRAMS

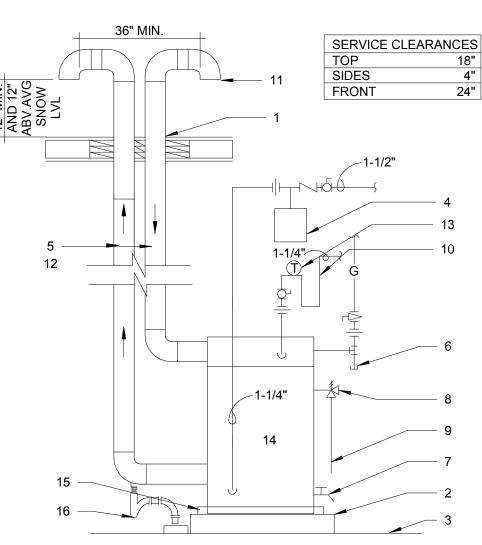
P5.0



SYRUP BUNDLE CONFIGURATION NTS

6

FBD DRINK SYSTEM DETAIL NTS



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

## WATER HEATER NTS

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

FILTER LINE F2 SUPPLIES FILTER LINE F1 SUPPLIES **BUNDLED TUBE BY PEPSI BUNDLED TUBE BY PEPS** 

1. DRIVE THRU DRINK STATION

1. ICE MACHINES 2. SELF SERVE DRINK STATION

WB2-M3-22-003

WATER BOOST MODULAR FILTRATION (WBMF) SYSTEM

1 3/4" COLD WATER INLET TO 1/2" COPPER LINE AND FITTINGS AT FILTER.

(2) 3/4" OUTLET W/ INTEGRAL BACKFLOW PREVENTER, EQUAL TO WATTS REGULATOR CO. SERIES 007 AND SERVICE BALL VALVE.

### **GENERAL NOTES**

- 1. OVERALL DIMENSIONS 21" WIDE x 12" DEEP x 48 1/2" HIGH
- 2. SEE SCOPE OF WORK FOR ADDITIONAL INFORMATION. 3. INSTALLATION MUST COMPLY WITH STATE OR LOCAL
- PLUMBING CODES.

5

LAVATORY SUPPORT NTS

- 4. THE UNIT MUST BE PROTECTED AGAINST FREEZING. 5. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL
- THREADED PARTS; NO PIPE DOPE.
- 6. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
- 7. SEE SHT. A2.0 FOR LOCATION.

WATER FILTER SYSTEM NTS

05/31/18 |IFC 02.16.18 ISSUED FOR PERMIT

2

520 South Main Street, Suite 2531

330.572.2100 Fax: 330.572.2102

Akron, OH 44311

CONTRACT DATE **BUILDING TYPE:** PLAN VERSION:

**BRAND DESIGNER** SITE NUMBER: 312262/442877 STORE NUMBER: 2016088.09

Taco Bell

01.08.18

T40M-O

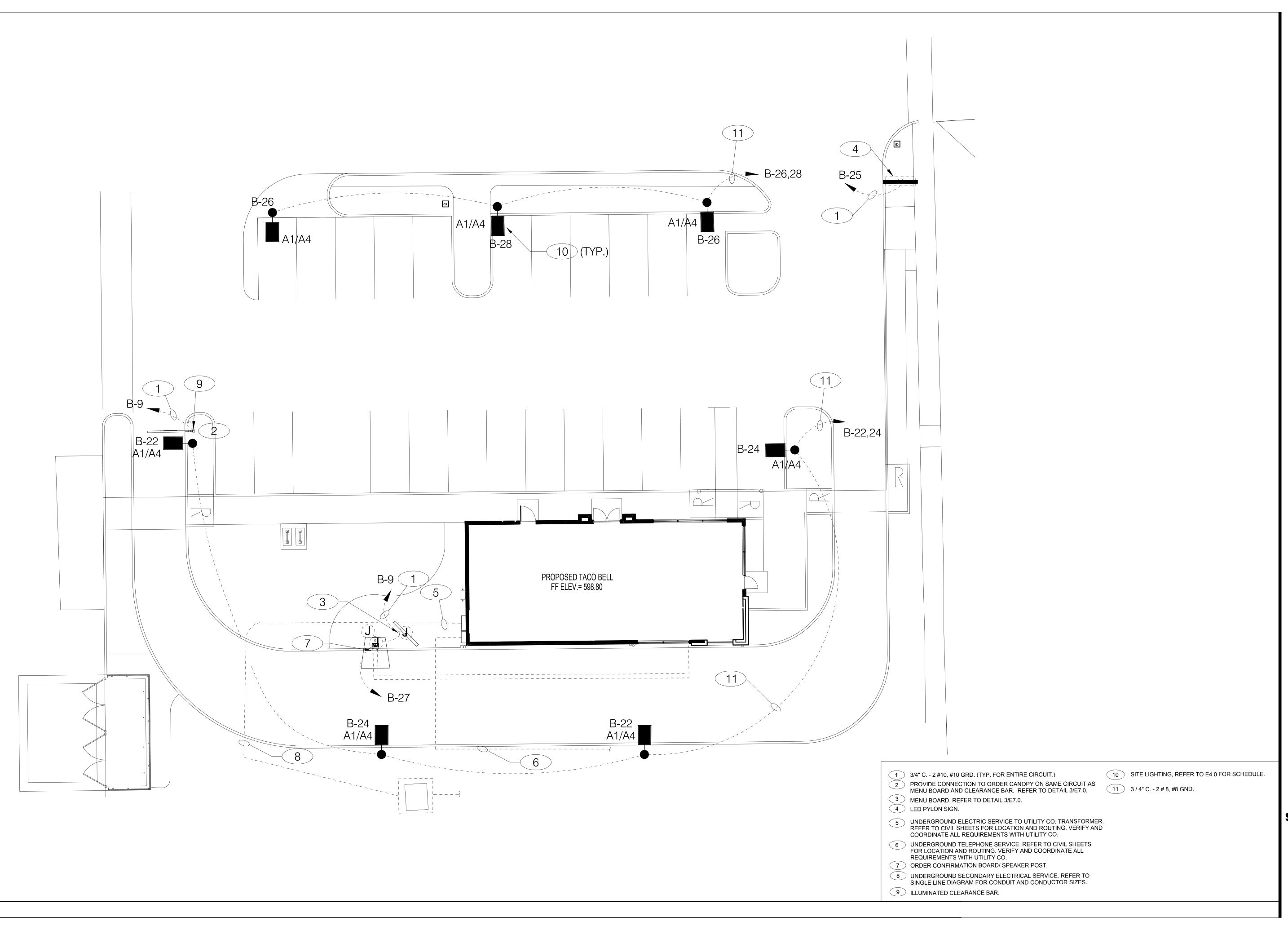
DEC 2017

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



T40M-O OPEN KITCHEN MODERN EXPLORER

**PLUMBING DETAILS** 





05/31/18 IFC 02.16.18 ISSUED FOR PERMIT			
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T40M-O
OPEN KITCHEN
MODERN EXPLORER

SITE ELECTRICAL PLAN

E1.0

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

## NATIONAL ACCOUNTS: SWITCHGEAR

SUPPLY and INSTALL STANDARD PACKAGE

CORPORATE AND FRANCHISE DEVELOPMENT

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

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

PRIMARY CONTACT: BUDDY BOCKWEG PHONE: (877) 707-7378

FAX: (502) 961-0357

2X4 FLUORESCENT FIXTURE

2X4 FLUORESCENT FIXTURE

1X4 FLUORESCENT FIXTURE

1X4 FLUORESCENT FIXTURE

SUSPENDED DOWNLIGHT FIXTURE

PENDANT MOUNTED LIGHT FIXTURE

TRACK MOUNTED PENDANT

DIRECTIONAL FIXTURE, TRACK

DIRECTIONAL FIXTURE, TRACK

MOUNTED TO UNDERSIDE OF

EXIT SIGN (WALL MOUNTED)

EXIT SIGN (CEILING MOUNTED)

WITH BATTERY PACK

DOWNLIGHT FIXTURE

LIGHT FIXTURE

INTERIOR CANOPY

COOLER FIXTURE

SECURITY STROBE

MOUNTED

\_ 🔺 🛦 📥

WITH BATTERY PACK

EMAIL: HYPERLINK "mailto:buddy@accuserv.com" <u>buddy@accuserv.com</u>

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

BE PREPARED AT TIME OF ORDER OR QUOTE REQUEST TO PROVIDE ALL PROJECT DETAILS REGARDING SPECIFICATIONS AND QUANTITIES AS SITE SPECIFIC DESIGN MAY NOT MATCH PROTOTYPICAL DESIGN.

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

NIGHTLIGHT

JUNCTION BOX

TELEPHONE OUTLET

-(J)-

0

CEILING MOUNTED SPEAKER

WALL MOUNTED JUNCTION BOX

DEDICATED GROUNDED OUTLET

GROUND FAULT DUPLEX OUTLET

GROUND FAULT DEDICATED OUTLET

**DUPLEX ISOLATED GROUND OUTLET** 

DEDICATED ISOLATED GROUND

CEILING SPECIAL PURPOSE OUTLET

ELECTRICAL PANEL. SEE SHEET E2.1

DUCT MOUNTED SMOKE DETECTOR

HOLD UP EMERGENCY BUTTON

CONNECTION TO EQUIPMENT

SPECIAL PURPOSE OUTLET

FOR PANEL SCHED.

ELECTRICAL MOTOR

DOUBLE DUPLEX ISOLATED GROUND OUTLET

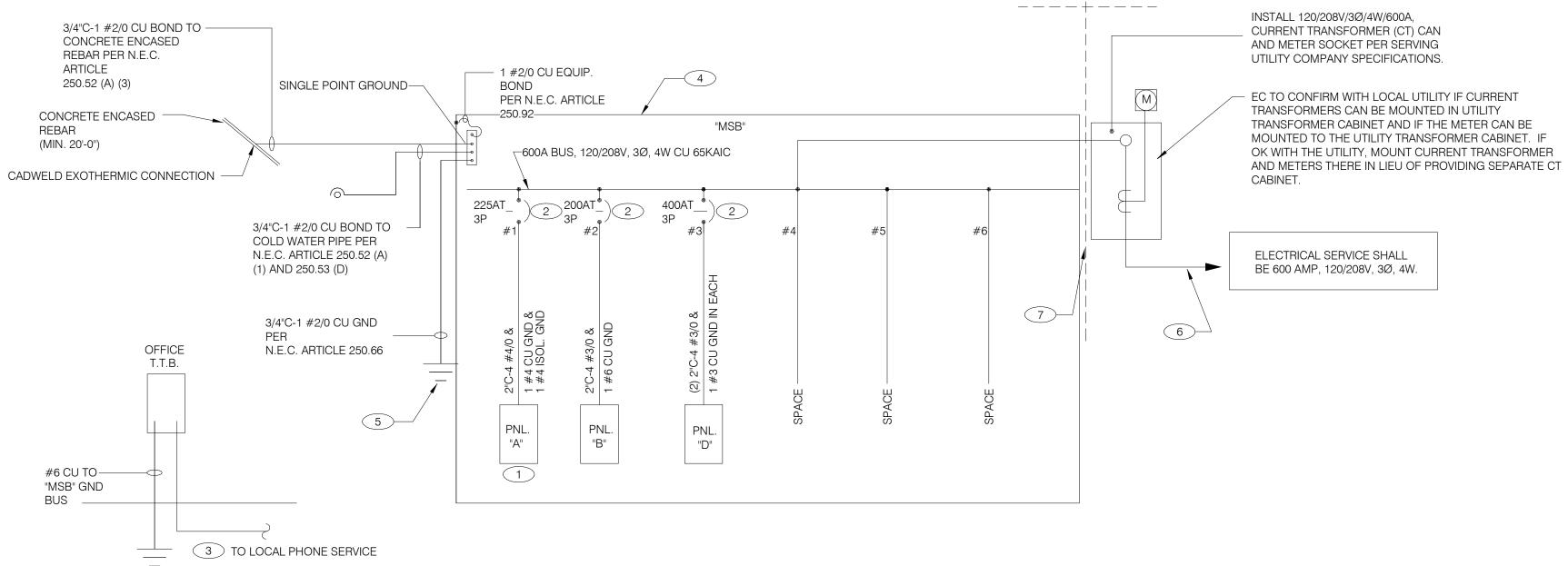
DOUBLE DUPLEX GROUNDED OUTLET

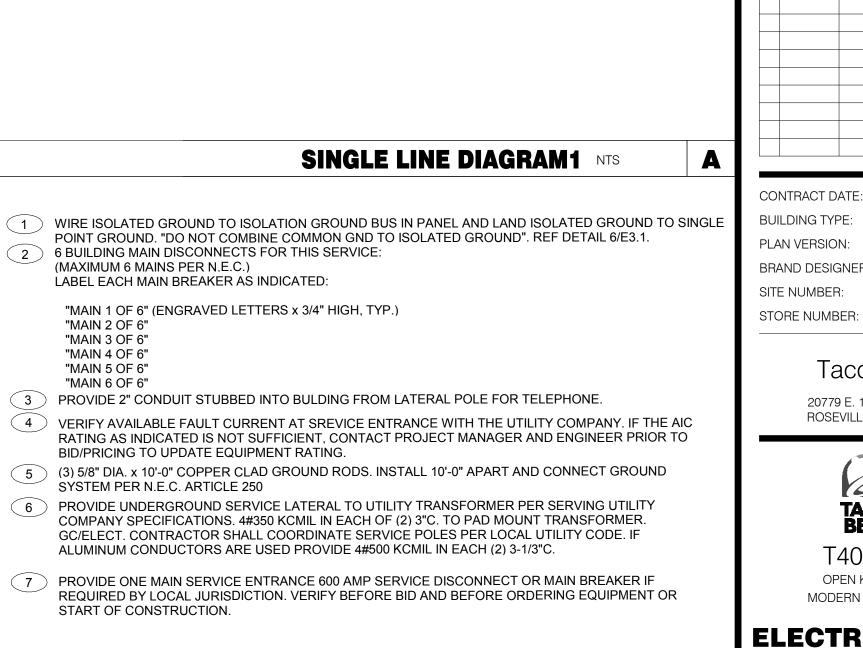
GROUND FAULT DUPLEX W/ BOTT. HALF SWITCHED

**DUPLEX GROUNDED OUTLET** 

CEILING DUPLEX OUTLET

WALL MOUNTED SPEAKER





05/31/18 | IFC

A |04/20/18 |BUILDING COMMENTS

**Professional Corporation** 

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Akron, OH 44311

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

Taco Bell

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



T40M-O OPEN KITCHEN MODERN EXPLORER

## **ELECTRICAL ONE LINE DIAGRAMS** AND LEGEND

C ONE LINE DIAGRAM KEY NOTES1 NTS

2 6 BUILDING MAIN DISCONNECTS FOR THIS SERVICE:

LABEL EACH MAIN BREAKER AS INDICATED:

BID/PRICING TO UPDATE EQUIPMENT RATING.

SYSTEM PER N.E.C. ARTICLE 250

START OF CONSTRUCTION.

"MAIN 1 OF 6" (ENGRAVED LETTERS x 3/4" HIGH, TYP.)

PROVIDE 2" CONDUIT STUBBED INTO BULDING FROM LATERAL POLE FOR TELEPHONE.

ALUMINUM CONDUCTORS ARE USED PROVIDE 4#500 KCMIL IN EACH (2) 3-1/3"C.

(MAXIMUM 6 MAINS PER N.E.C.)

"MAIN 2 OF 6"

"MAIN 3 OF 6" "MAIN 4 OF 6"

"MAIN 5 OF 6"

"MAIN 6 OF 6"

INTERIOR | EXTERIOR

**ELECTRICAL LEGEND1** NTS D

CAPACITY.

CONDUCTORS/CONDUITS PER NEC.

**FUSIBLE DISCONNECT SWITCH** 

FUSIBLE DISCONNECT SWITCH

NON-FUSIBLE DISCONNECT SWITCH

FLUORESCENT WALL MOUNT FIXTURE

SINGLE POLE, SINGLE THROW

SINGLE POLE, SINGLE THROW

WALL MOUNTED OCCUPANCY

CONDUIT RUN, UNDERGROUND

EXTERIOR DECORATIVE WALL FIXTURE

EXTERIOR DECORATIVE WALL FIXTURE

WEATHERPROOF GROUND FAULT

TOGGLE SWITCH W/ PILOT LIGHT

WITH STARTER

PHOTOCELL

RAIN SENSOR

EMERGENCY LIGHT

TOGGLE SWITCH

SMOKE DETECTOR

EXTERIOR WALL FIXTURE

SENSOR

RELAY

ONE LINE DIAGRAM GENERAL NOTES1 NTS

THERE SHALL BE U.L. LISTED SERIES RATING BETWEEN CKT. BREAKERS LOCATED AT THE DISTRIBUTION

PANEL AND THE DOWNSTREAM 10k A.I.C. RATED CIRCUIT BREAKERS AT PANELS "A", "B" DUAL-LINE

EQUIPMENT CABINET BASED ON THE MAXIMUM FAULT CURRENT AS DETERMINED AT THE SERVICE

THE NFPA-70 'SIX SWITCH' MAXIMUM RULE SHALL APPLY AT THE POINT AT WHICH THE SERVICE ENTERS

THE BUILDING AS DEFINED BY NFPA-70 (CURRENT EDITION IN FORCE AT THIS SITE). NOTIFY ENGINEER

WHERE LOCAL CONDITIONS REQUIRE ALTERNATE LOCATIONS OR SINGLE POINT DISCONNECT.

IF UTILITY COMPANY PROPOSES A SERVICE DIFFERENT FROM THAT ILLUSTRATED, CONTACT THE

COORDINATE CT METERING COMPARTMENT SIZE WITH LOCAL UTILITY COMPANY, THE LOCAL

ALL WIRING SHOWN SHALL BE COPPER TYPE "THHN/THWN" EXCEPT FEEDERS FROM UTILITY

BEFORE PURCHASE AND INSTALLATION. NEW METER BY LOCAL UTILITY COMPANY.

TRANSFORMER TO SWITCH BOARD MAY BE ALUMINUM. CONTRACTOR SHALL RESIZE

ELECTRICAL INSPECTOR AND THE NATIONAL ELECTRICAL CODE TO MEET ALL REQUIREMENTS

SEE SCOPE OF WORK FOR DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS.

CONSTRUCTION ENGINEER FOR A DECISION BEFORE PROCEEDING. COORDINATE AVAILABLE SHORT

CIRCUIT CURRENT W/ LOCAL UTILITY AND PROVIDE CIRCUIT BREAKERS W/ SUFFICIENT INTERRUPTING

ARMOR CABLE ACCEPTABLE FOR THE LAST 6'-0" FROM A JUNCTION BOX TO LIGHT FIXTURES. ARMOR

GREEN CU CODE SIZED GROUND CONDUCTOR. CABLE MUST BE ALLOWED BY LOCAL JURISDICTION.

CABLE IS NOT ALLOWED FOR NON-ACCESSIBLE FLOORS, WALLS AND CEILINGS. CABLES SHLL CONTAIN

ENTRANCE AND DOWNSTREAM 22K A.I.C. RATED CIRCUIT BREAKERS AT PANEL D."

GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL OTHER ASPECTS OF THE PROJECT

B

### Switchboard: MSB Location: Volts: 120/208 Wye A.I.C. Rating: 65 KAIC Mains Type: M.C.B Supply From: Phases: 3 Mains Rating: 600 A Mounting: SURFACE Wires: 4 MCB Rating: 600 A Enclosure: NEMA-3R WIRE # of SIZE Poles Frame Size CKT **Circuit Description** Trip Rating Load 1 PANELBOARD A 225 A 225 A 51546 VA PANELBOARD B 225 A 200 A 22342 VA PANELBOARD D 400 A 400 A 70716 VA 3 4 5 6

			Total	I 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	100.00%	500 VA		

Phases: 3

Wires: 4

## **Branch Panel: B**

Location: Supply From: MSB Mounting: Recessed Enclosure: Type 1

Volts: 120/208 Wye A.I.C. Rating: SERIES Mains Type: M.L.O. Mains Rating: 225 A MCB Rating:

Total Conn. Load: 144603 VA

		Wire										Wire			
_ СКТ	Circuit Description		Trip	Poles	<i>A</i>	A	E	3	(	C P		Trip Size		СКТ	
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	2
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	
<u> 11</u>	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	(2)
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	2
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	(2)
23	SPARE		20 A	1					0 VA	484 VA	1	20 A	SITE LIGHTING	24	2
25	LTG-SITE-PYLON SIGN		20 A	1	1200 VA	484 VA					1	20 A	SITE LIGHTING	26	$\overbrace{2}$
27	LTG-SITE-S240 OCB & SPEAKER POST		20 A	1			130 VA	484 VA			1	20 A	SITE LIGHTING	28	$\frac{1}{2}$
29	EF-1		20 A	1					1120 VA	660 VA	1	20 A	EF-2	30	2
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	
	-		Tota	l Load:	4356	3 VA	7322	7322 VA		4 VA				-	

	Total Amps:	36 A	65 A	93 A	
Load Classification	Connected Load	Demand Factor	or 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 V	Α	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 V	/A	System Voltage: 120/208 Wye
Notoc	<u>'</u>	'	•		·

**Branch Panel: A** Location: Volts: 120/208 Wye A.I.C. Rating: SERIES Supply From: MSB Mains Type: M.L.O. Phases: 3 Mains Rating: 225 A Mounting: Recessed Wires: 4 Enclosure: Type 1 MCB Rating: CKT **Circuit Description** Size Trip Poles **Circuit Description** Poles Trip Size 20 A 1 180 VA 300 VA 1 P-417 TIMER 1 20 A F-040 OFFICE COMPUTER 240 VA 720 VA 3 S-546 ICED TEA 1 20 A DRIVE THRU POS/ORDER ENTRY 1 5 OFFICE QUAD RECEPTACLE 680 VA | 480 VA | 1 | 20 A | 7 J-BOX SECURITY SYSTEM / DVR 20 A 1 1180 VA 1200 VA DINING POS ENTRY 1 680 VA 180 VA 9 OFFICE RECPT AND J-BOX RECEPTACLES - OFFICE 860 VA 864 VA 1 20 A 11 U-052 SECURITY SYSTEM S-204 D/T TIMING SYSTEM 20 A 1 1220 VA 1140 VA 13 DRIVE THRU POS/ORDER ENTRY 2 15 A 1 360 VA 2013 VA 2013 VA 2013 VA 2013 VA 15 BEVERAGE DISPENSER D/T P-452 HOT WATER SYSTEM P-452 HOT WATER SYSTEM 2013 VA 1440 VA 1 20 A INTERIOR DIGITAL MENUBOARD 20 A 1 180 VA 500 VA 21 C-107 RETHERMALIZER E-107 FIRE SUPPRESSION 23 E-272 HOOD FIRE SUP. 20 A 1 C-026 FRYER 25 C-400 COOK TIMER 20 A 1 180 VA 0 VA SHUNT TRIP BREAKER FOR DUAL FRYER | 26 1248 VA 500 VA 1 20 A OCB SWITCH EVO CABINET 1 (VLINE 1) 15 A 2 EVO CABINET 2 (VLINE 1) 20 A 1 180 VA 1248 VA 31 S-027 HEATED CABINET 33 S-027 HEATED CABINET 35 REFRIGERATOR (VLINE 1) 15 A 1 2309 VA | 1664 VA | 30 A 2 HOT WELL W/ GRILL 2 20 A C-250 (VLINE 1) CHEES MELTER 2309 VA 1664 VA 1664 VA | 2196 VA | 1 | 30 A C-203 (VLINE 1) CLAM C-250 (VLINE 2) CHEESE MELTER C-203 (VLINE 2) CLAM 1664 VA 2196 VA 15 A 1 240 VA 240 VA 45 DIGITAL SCALE (VLINE 1) DIGITAL SCALE (VLINE 1) 47 DRIVE THRU MONITORS 20 A 1 360 VA | 960 VA | 1 | 15 A | REFRIGERATOR (VLINE 2) 1248 VA 1248 VA 15 A 2 EVO CABINET 1 (VLINE 2) 2 | 15 A EVO CABINET 1 (VLINE 2) 1248 VA 1248 VA 20 A 1 SAFE W/TOUCHSCREEN... 53 DINING POS ENTRY 2 & CARD.. 600 VA 360 VA 1 20 A Total Load: 20610 VA 13750 VA 17186 VA Total Amps: 176 A 115 A 148 A **Load Classification** Panel Totals Connected Load **Demand Factor Estimated Demand** 1500 VA 100.00% 1500 VA Kitchen Total Connected Load: 51546 VA 45822 VA 100.00% 45822 VA **Total Estimated Demand:** 51546 VA 4224 VA 100.00% 4224 VA **Total Connected Current:** 143 A **Total Estimated Demand Current:** 143 A System Voltage: 120/208 Wye

NOTE TO CONTRACTORS

ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITION THAT DIFFERS FROM THAT SHOWN ON THESE PLANS SHALL BE REPORTED TO THE TENANT'S ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATION TO THE SCOPE OF WORK WHICH RESULTS FROM THE CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.

### **GENERAL NOTE:**

FOR PARKING LOT (SITE) LIGHTS AND OUTSIDE SIGNS: PROVIDE (5) 3/4"C FROM PANEL "B" AND STUB OUT 10'-0" AWAY FROM THE BUILDING. VERIFY EXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY WITH LOCATION. VERIFY OUTDOOR VOLTAGE DROP FOR ALL PARKING LIGHTING (SITE) CIRCUITS.

**KEY NOTES:** 

1 PROVIDE LOCK-ON BREAKER.

2 CIRCUITS TO BE WIRED THROUGH COMBINED CONTROL BOX CONTACTOR. SEE SHEETS 6.0 THROUGH 6.3.

05/31/18 | IFC

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

A	04/20/10	POILDING 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:

Taco Bell

2016088.09

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



OPEN KITCHEN MODERN EXPLORER

**ELECTRICAL SCHEDULES** 

		CC	MMERCIA	AL K	ITC	HEN	۱E	QU	IPMENT SCH	ΙED	ULE								
		EQUIPMENT IDENTIFICATION	EQUIPMENT ELEC	TRICAL C	CHARAC	TERIS	TICS	EQUIPMENT CIRCUIT					EQUIPMENT DISCONNET						
TAG	Т	EQUIPMENT NAME	V/Ph - WATTS	=LA/RLA	MCA	TIME DELAY FUSE	INVERSE-TIME BREAKER	SETS	BRANCH CIRCUIT	PANEL	CIRCUIT NUMBER	WIRE TYPE	CONDUIT TYPE	ТҮРЕ	SIZE	NEMA	SUPPLIED BY	INSTALLED BY	NOTES
B-223	0	B-223 WATER HEATER IGNITION	120 V/1-180 VA	1.5	<u>≥</u>	20	20	<u> </u>	#12 W/#12 G IN 3/4"C	<u>_</u>	3	_ ≤ CU	ST	C&P	<u>တ</u> 20	5-20	ES	<u>≤</u> ES	2
C-026	KR	FRYER	120 V/1-180 VA	6.1	7.6	20	20	1	#12 W/#12 G IN 3/4 °C	A	24	CU	ST	C&P	20	5-20	ES	ES	2
C-020	0	RETHERMALIZER	120 V/1-180 VA	3.0	3.8	20	20	1	#12 W/#12 G IN 3/4"C		21	CU	ST	C&P	20	5-20	ES	ES	2
C-203	KR	VLINE CLAM	120 V/1-2196 VA	18.3	22.8	30	30	1	#10 W/#10 G IN 3/4"C	A	44	CU	ST	C&P	30	5-30P	ES	ES	2
C-250		VLINE CHEESE MELTER	208 V/2-3328 VA	16	20	20	20	1	#12 W/#12 G IN 3/4"C	A	41.43	CU	ST	C&P	20	6-20P	ES	ES	2
C-400	0	COOK TIMER	120 V/1-180 VA	3.5	4.4	20	20	1	#12 W/#12 G IN 3/4"C		25	CU	ST	C&P	20	5-20	ES	ES	2
E-107	0	EXHAUST HOOD	120 V/1-500 VA	6.0	7.5	20	20	1	#12 W/#12 G IN 3/4"C	Α	22	CU	ST	DIRECT	20	J-BOX	ES	ES	8
E-272	0	HOOD FIRE SUPPRESSION SYSTEM	120 V/1-500 VA	6.0	7.5	20	20	1	#12 W/#12 G IN 3/4"C	Α	23	CU	ST	DIRECT	20	J-BOX	ES	ES	8
F-040	0	F-040 OFFICE COMPUTER	120 V/1-300 VA	2.5	3.1	20	20	1	#12 W/#12 G IN 3/4"C	A	2	CU	ST	C&P	20	5-20	ES	ES	2
F-090	0	U-070 RECEIPT PRINTER	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	Α	8	CU	ST	C&P	20	5-20	ES	ES	2
F-090	0	UPS	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	Α	13	CU	ST	C&P	20	5-20	ES	ES	2
F-174	0	SAFE W/TOUCHSCREEN CONTROLS	120 V/1-360 VA	3.0	3.8	20	20	1	#12 W/#12 G IN 3/4"C	Α	54	CU	ST	C&P	20	5-20	ES	ES	2
HM-10	0	OCB SWITCH	120 V/1-500 VA	1.1	1.4	20	20	1	#12 W/#12 G IN 3/4"C	Α	28	CU	ST	C&P	20	5-20	ES	ES	2
IR-01	0	IRRIGATION TIMER	120 V/1-500 VA	6.0	7.5	20	20	1	#12 W/#12 G IN 3/4"C	D	6	CU	ST	C&P	20	5-20	ES	ES	2
L-049	0	DIGITAL MENU BOARD		1.1	1.4	20	20	1	#12 W/#12 G IN 3/4"C	Α	20	CU	ST	C&P	20	5-20	ES	ES	2
M-03	0	MUSIC SYSTEM JACK	120 V/1-500 VA	1.1	1.4	20	20	1	#12 W/#12 G IN 3/4"C	D	8	CU	ST	C&P	20	5-20	ES	ES	2
N-043	0	POWER SOAK	208 V/2-4700 VA	11.4	14.1	20	20	1	#12 W/#12 G IN 3/4"C	D	22,24	CU	ST	C&P	20	6-20P	ES	ES	2
P-07	0	POS J-BOX	120 V/1-500 VA	1.1	1.4	20	20	1	#12 W/#12 G IN 3/4"C	Α	9	CU	ST	C&P	20	5-20	ES	ES	2
P-417	0	TIMER - 8 CHANNEL	120 V/1-180 VA	1.1	1.4	20	20	1	#12 W/#12 G IN 3/4"C	Α	1	CU	ST	C&P	20	5-20	ES	ES	2
P-452	KR	HOT WATER SYSTEM	208 V/2-4026 VA	19.4	24.2	30	30	1	#10 W/#10 G IN 3/4"C	Α	16,18	CU	ST	C&P	30	6-30	ES	ES	2
P-452	KR	HOT WATER SYSTEM	208 V/2-4026 VA	19.4	24.2	30	30	1	#10 W/#10 G IN 3/4"C	Α	17,19	CU	ST	C&P	30	6-30	ES	ES	2
R-009	KM	R-009 FULL HEIGHT FREEZER	120 V/1-1140 VA	9.5	11.9	20	20	1	#12 W/#12 G IN 3/4"C	Α	14	CU	ST	C&P	20	5-20	ES	ES	2
S540	KM	PEPSI BOOSTER TANK	120 V/1-540 VA	4.7	5.9	20	20	1	#12 W/#12 G IN 3/4"C	D	7	CU	ST	C&P	20	5-20	ES	ES	2
S-01	0	J-BOX SECURITY DVR	120 V/1-500 VA	4.2	5.3	20	20	1	#12 W/#12 G IN 3/4"C	Α	11	CU	ST	C&P	20	5-20	ES	ES	2
S-12	0	J-BOX SECURITY	120 V/1-500 VA	4.2	5.3	20	20	1	#12 W/#12 G IN 3/4"C	Α	7	CU	ST	C&P	20	5-20	ES	ES	2
S-027	KR	HEATED CABINET	120 V/1-180 VA	16.6	20	20	20	1	#12 W/#12 G IN 3/4"C	Α	31	CU	ST	C&P	20	5-20	ES	ES	2
S-027	KR	HEATED CABINET	120 V/1-180 VA	16.6	20	20	20	1	#12 W/#12 G IN 3/4"C	Α	33	CU	ST	C&P	20	5-20	ES	ES	2
S-204	0	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	Α	12	CU	ST	C&P	20	5-20	ES	ES	2
S-284	KM	S-284 BEVERAGE DISPENSER	120 V/1-360 VA	3.0	3.8	20	20	1	#12 W/#12 G IN 3/4"C	D	15	CU	ST	C&P	20	5-20	ES	ES	2
S-285	KM	S-284 BEVERAGE DISPENSER (D/T)	120 V/1-360 VA	3.0	3.8	20	20	1	#12 W/#12 G IN 3/4"C	Α	15	CU	ST	C&P	20	5-20	ES	ES	2
S-286	0	WATER FILTRATION SYSTEM	120 V/1-400 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	D	39	CU	ST	C&P	20	5-20	ES	ES	2
S-381	0	PEPSI BOOSTER TANK	120 V/1-120 VA	1	1.3	15	15	1	#12 W/#12 G IN 3/4"C	D	41	CU	ST	C&P	15	5-15	ES	ES	2
S-513	0	S-513 ICE MAKER	120 V/1-180 VA	1.1	1.4	15	15	1	#12 W/#12 G IN 3/4"C	D	2	CU	ST	C&P	15	5-15	ES	ES	2
S-546	0	ICED TEA	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	A	3	CU	ST	C&P	20	5-20	ES	ES	2
S-547	0	BREWER	120 V/1-480 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	Α	6	CU	ST	C&P	20	5-20	ES	ES	2
S-570	0	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	D	1	CU	ST	C&P	15	5-15	ES	ES	2
S-570	0	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	D	15	CU	ST	C&P	15	5-15	ES	ES	2
S-737	KM	S-737 FROZEN BEVERAGE DISPENSER	208 V/2-3120 VA	31.6	39.5	30	30	1	#10 W/#10 G IN 3/4"C	D	10,12	CU	ST	C&P	30	6-30	ES	ES	2
S-XX2	0	AIR CURTAIN RECEPTACLE	120 V/1-500 VA	4.2	5.25	20	20	1	#12 W/#12 G IN 3/4"C	D	25	CU	ST	C&P	20	5-20	ES	ES	2
U-052	0	U-052 SECURITY SYSTEM	120 V/1-180 VA	3.0	3.8	15	15	1	#12 W/#12 G IN 3/4"C	A	5	CU	ST	C&P	15	5-15	ES	ES	2
U-052	0	GENERAL PURPOSE RECEPTACLE	120 V/1-360 VA	3.0	3.8	15	15	1	#12 W/#12 G IN 3/4"C	A	11	CU	ST	C&P	15	5-15	ES	ES	2
U-061	0	CREDIT CARD READER	120 V/1-180 VA	1.1	1.4	20	20	1	#12 W/#12 G IN 3/4"C	A	13	CU	ST	C&P	20	5-20	ES	ES	2
U-061	0	CREDIT CARD READER	1003/// 0:03//	1.1	1.4	20	20	1	#12 W/#12 G IN 3/4"C	A	53	CU	ST	C&P	20	5-20	ES	ES	2
U-070	0	U-070 RECEIPT PRINTER	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	A	8	CU	ST	C&P	20	5-20	ES	ES	2
U-070	0	CREDIT CARD READER	120 V/1-180 VA	1.1	1.4	20	20	1	#12 W/#12 G IN 3/4"C	A	13	CU	ST	C&P	20	5-20	ES	ES	2
U-100	0	POS CARD READER	120 V/1-180 VA	1.5	1.9	15	15	1	#12 W/#12 G IN 3/4"C	A	53	CU	ST	C&P	15	5-15	ES	ES	2
U-238	O	CREDIT CARD READER	120 V/1-180 VA	1.1	1.4	20	15	1	#12 W/#12 G IN 3/4"C	A	47	CU	ST	C&P	20	5-20	ES	ES	2
W-075		W-075-2 WALK-IN FREEZER	208 V/3-0 VA	11.6	14.5	20	20	1	#12 W/#12 G IN 3/4"C	ח	27,29,31	CU	ST	DIRECT	20	J-BOX	ES	ES	2
W-075	KM	W-075-1 WALK-IN COOLER	208 V/3-0 VA	14.2	17.8	20	20	I	#12 W/#12 G IN 3/4"C	U	28,30,32	CU	ST	DIRECT	20	J-BOX	ES	ES	2

<sup>\*\*\*</sup>REFER TO ARCHITECTURAL EQUIPMENT SCHEDULE FOR ALL KITCHEN EQUIPMENT AND FINAL COORDINATION\*\*\*

**Branch Panel: D** 

Location: Supply From: MSB Mounting: Recessed Enclosure: Type 1

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

A.I.C. Rating: SERIES Mains Type: M.L.O. Mains Rating: 400 A MCB Rating:

		Wire											Wire			
СКТ	Circuit Description	Size	Trip	Poles		4	E	3	(	С	Poles	Trip	Size	Circuit Description	СКТ	
1	CARBONATOR	12	15 A	1	138 VA	360 VA					1	20 A	12	S-513 ICE MAKER		
3	B-223 WATER HEATER IGNITION	12	20 A	1			180 VA	680 VA			1	20 A	12	ALTERNATE PAYMENT ROUTER BOX AN	4	
5	HUB TABLE RECEPTACLES	12	20 A	1					500 VA	680 VA	1	20 A	12	IRRIGATION TIMER AND RECEPTACLE	6	
7	S-540 PEPSI TANK	12	20 A	1	540 VA	680 VA					1	20 A	12	MUSIC SYSTEM J-BOX AND RECEPTACLE	8	
9	RECEPTACLES - ROOF	12	20 A	1			360 VA	1560 VA			_	20.4	40	0.707 FD07FN DFN/ DI0D	10	
11	CONVIENCE RECEPTACLES	12	20 A	1					540 VA	1560 VA	2	30 A	10	S-737 FROZEN BEV. DISP.	12	
13	GENERAL PURPOSE RECEPTACLES	12	20 A	1	360 VA	1600 VA					_	20.4	40	IOE MAKED CONDENICED	14	
15	DRINK FOUNTAIN - S-284 AND S-570	12	20 A	1			498 VA	1600 VA			2	20 A	12	ICE MAKER CONDENSER	16	
17	U-238 MONITORS	12	20 A	1					720 VA	1600 VA	2	20.4	40	IOE MAKED CONDENICED	18	
19	ICE MAKED CONDENICED DA	10	20. 4	2	1600 VA	1600 VA					2	20 A	12	ICE MAKER CONDENSER	20	
21	ICE MAKER CONDENSER D/T	12	20 A	2			1600 VA	2350 VA			_	20.4	40	DOMED COM	22	
23	HUB TABLE KIOSK	12	20 A	1					500 VA	2350 VA	2	20 A	12	POWER SOAK	24	
25	AIR CURTAIN RECEPTACLE	12	15 A	1	500 VA	500 VA					1	20 A	12	MUSIC SYSTEM (MUZAK)	26	
27							1393 VA	1705 VA							28	
29	WALK-IN FREEZER	12	20 A	3					1393 VA	1705 VA	3	15 A	12	WALK-IN COOLER	30	
31					1393 VA	1705 VA									32	
33							4035 VA	6341 VA							34	
35	RTU-1	8	50 A	3					4035 VA	6341 VA	3	80 A	4	RTU-2	36	
37					4035 VA	6341 VA									38	
39	S-286 WATER FILTER SYSTEM	12	20 A	1			400 VA	2309 VA				00.4	40	HOT MELL MY OBJECT AT INFO	40	
41	S-381 AMPROBE CO2 MONITOR	12	20 A	1					120 VA	2309 VA	2	30 A	10	HOT WELL W/ GRILL (VLINE 2)		
		1	Tota	al Load:	2135	2 VA	2501	1 VA	2435	3 VA						

	Total Amps:	178 A	212 A	207 A		
Load Classification	Connected	Load Demand	Factor Estim	ated Demand	Panel Tot	als
HVAC	12105 V	A 100.0	00% 1	2105 VA		
Kitchen	8816 VA	65.0	0%	5730 VA	Total Connected Load:	70716 VA
Other	19023 V	A 100.0	00% 1	9023 VA	Total Estimated Demand:	67630 VA
Power	10218 V	A 100.0	00% 1	0218 VA	Total Connected Current:	196 A
Receptacle	1660 VA	100.0	00%	1660 VA	Total Estimated Demand Current:	188 A
Refrigeration	18894 V	A 100.0	00% 1	8894 VA	System Voltage:	120/208 Wye



05/31/18	IFC
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



OPEN KITCHEN MODERN EXPLORER

**ELECTRICAL SCHEDULES** 

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

TYPE: H-HEATING, C-COOLING, KR-KITCHEN RESISTIVE, KM-KITCHEN MOTOR, WH-WATER HEATER, OM-OTHER MOTORS, O-OTHER DISCONNECT TYPE: HP-HP RATED SWITCH, C&P-CORD & PLUG, LC&P-LOCKING CORD & PLUG, F-FUSED, NF-NON-FUSED, MCCB-MOLDED CASE CIRCUIT BREAKER SUPPLIED/INSTALLED BY: EC-ELECTRICAL CONTRACTOR, HC-HVAC CONTRACTOR, PC-PLUMBING CONTRACTOR, ES-EQUIPMENT SUPPLIER \*VOLTAGE DROP CALCULATION FORMULAS COURTESY OF COOPER BUSSMANN.

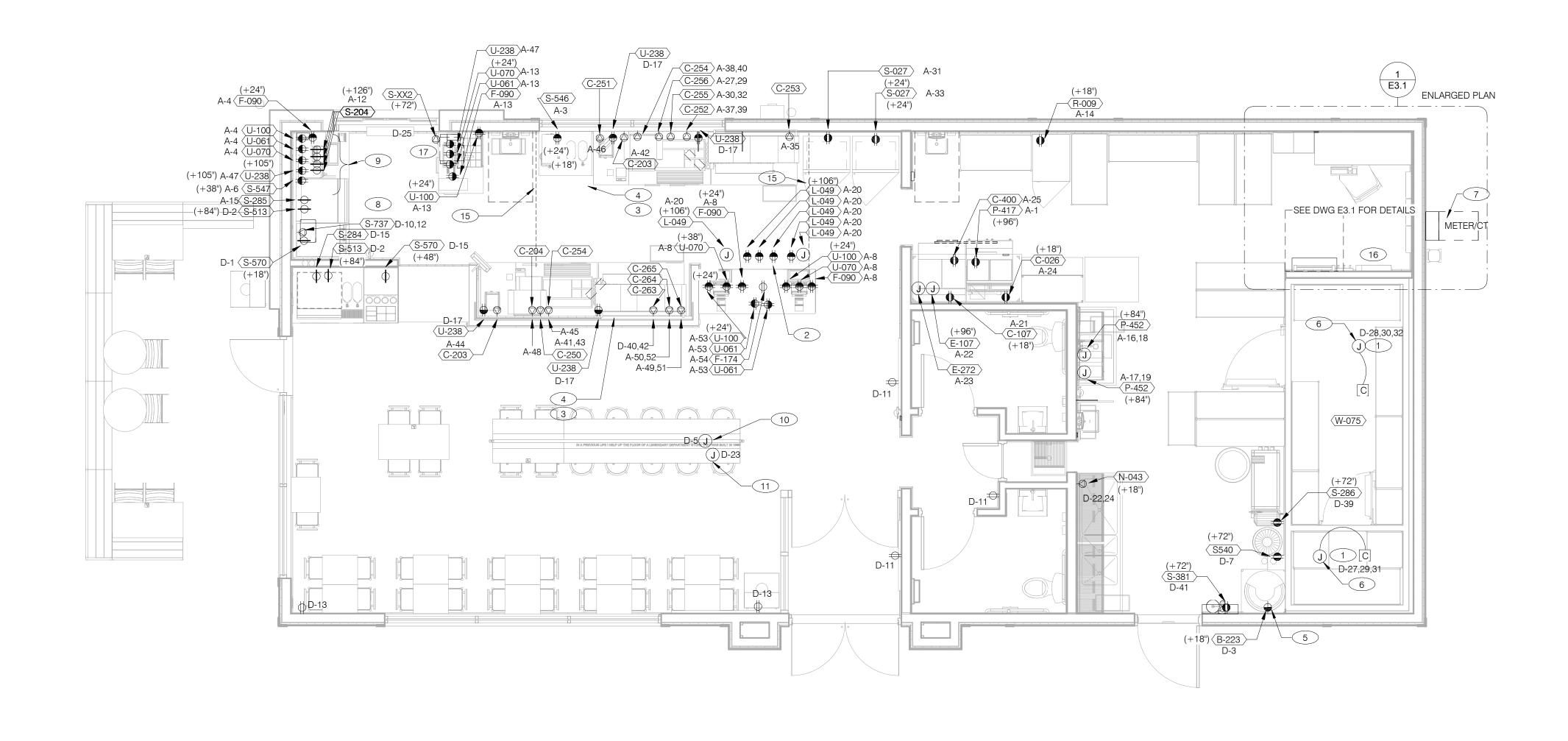
NOTES: 1 - REQUIRES SHUNT TRIP PROTECTION

<sup>2 -</sup> CORD & PLUG SUPPLIED AND INSTALLED BY ES. EC SHALL PROVIDE RECEPTACLE.

<sup>3 -</sup> CORD & PLUG SUPPLIED AND INSTALLED BY ES. RECEPTACLE SUPPLIED BY ES AND INSTALLED BY EC. 4 - CORD, PLUG & RECEPTACLE SUPPLIED AND INSTALLED BY EC.

<sup>5 -</sup> SINGLE PHASE, THREE WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND. 6 - THREE PHASE, FOUR WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND. 7 - OUTLETS SUPPLIED AND INSTALLED BY ES. CONDUIT & WIRING PROVIDED BY EC.





IN LIEU OF GFCI OUTLETS, CONTRACTOR MAY USE

GFCI CIRCUIT BREAKERS TO CUT COSTS. REFER TO POWER AND COMMUNICATION DIMENSIONS

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

- ALL DIMENSIONS TO J-BOXES ARE FROM FACE OF STUD TO CENTER OF BOX,
- ALL CONDUIT DROPS ARE INSIDE WALLS U.O.N. SEE ARCH. DWGS FOR WALL
- ALL J-BOX CIRCUITS, CONDUITS, FIXTURES, ETC. SHALL BE AS INDICATED ON THE ELECT. DWGS AND SPECS.
- CONTRACTOR SHALL VERIFY UNDERGROUND CONDUIT LOCATIONS PRIOR TO POURING SLAB.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ELECT. ROUGH-INS WITH INFO PROVIDED ON THE ARCH. AND STRUCT. DWGS AND THE EQUIPMENT ACTUALLY SUPPLIED, AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS HEREIN.
- LOCATIONS OF ALL OUTLETS MAY BE RELOCATED TO NEAREST STUD. DO <u>NOT</u> CUT INTO STUDS.
- FOR EXACT LOCATIONS OF KITCHEN & MECHANICAL EQUIPMENT AND POINTS OF CONNECTION, REFER TO KITCHEN & MECHANICAL EQUIPMENT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.
- ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY NEC.
- CONTRACTOR SHALL VERIFY CIRCUIT BREAKER, DISCONNECT SWITCH, STARTER AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED.

- ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE NEMA-1 FOR INTERIOR AND NEMA 3R FOR EXTERIOR. IN COASTAL REGIONS THE STANDARD FOR OUTSIDE SHALL BE NEMA-4X.
  - KITCHENS ARE REQUIRED TO BE GFCI PROTECTED. THIS INCLUDES ISOLATED GROUND

PER SECTION 210.8(B)(3) NEC 2011, ALL 15 AND 20A, 120V RECEPTACLES IN COMMERCIAL

- DO NOT MEASURE/LOCATE OUTLETS ON DRAWINGS. USE DIMENSIONS PROVIDED.
- CONDUIT MAY RUN UNDER SLAB AT G.C.'S DISCRETION.
- E.C. SHALL PROVIDE A PREPRINTED SELF-ADHESIVE LABEL ON ALL POS RECEPTACLES STATING "POS USE ONLY".
- PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILING, AND FLOORS. DO NOT USE CAULKS OR EXPANSION FOAM FOR SEALANT.
- ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE. ALL WIRE SHALL BE CONCEALED O.N.U.
- FOR ALL CIRCUITS NOT SHOWN ON EQUIPMENT SCHEDULE, CONTRACTOR SHALL PROVIDE CONDUCTOR AND CONDUIT SIZES AS SHOWN ON BRANCH CIRCUIT WIRING SCHEDULE SHOWN ON E2.2. IF SIZES DIFFER FROM N.E.C., THE MORE STRINGENT (LARGER) SIZE SHALL BE PROVIDED.
- OUTLETS WITHIN FOH TO BE AT 18" AFF FOR ADA ACCESS.
- CONDUITS NEAR DRIVE THRU WINDOW AREA TO BE ROUTED FROM ABOVE CEILING OR STUBBED UP FROM UNDER SLAB SO AS TO NOT INTERFERE WITH WINDOW FRAMING.

(1) REFER TO ROOF PLAN.

C

- 2 INSTALL IN CONDUIT RUNNING ON SURFACE OF KITCHEN SIDE OF CABINETRY REAR WALL.
- 3 THE EC SHALL BE RESPONSIBLE FOR PROVIDING RECEPTACLES FOR THE EQUIPMENT IN THE V-LINE. EC SHALL COORDINATE REQUIEMENTS WITH EQUIPMENT MANUFACTURER. CONFIRM AND COORDINATE ALL MOUNTING HEIGHTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- 4 EC SHALL COORDINATE WITH V-LINE MANUFACTURER FOR RECEPTACLE MOUNTING HEIGHT AND SPECIFICATIONS.
- 5 LOCATED INSIDE SHELL OF HEATER.
- 6 INSTALL CONTROL CABLE FROM FREEZER/COOLER FAN COIL TO ROOF MOUNTED CONDENSOR.
- 7 LOCATE ELECTRICAL SERVICE EQUIPMENT PER GUIDLINES ON ARCHITECTURAL AND CIVIL DRAWINGS.
- 8 PROVIDE BOOST TRANSFORMER (208V, 1-PHASE IN, 240V, 1-PHASE OUT) FOR FROZEN BEVERAGE DISPENSER IF APPLICABLE. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT REQUIREMENTS.
- ig( 9 ig) above ceiling for wall mounted HME. See 5/E3.1.
- ( 10 ) J-BOX FOR POWER AT HUB TABLE. CONDUIT SHALL BE ROUTED UNDERGROUND WITH 3/4" C. W/ 2 # 12 AND 1#12 GND. STUB CONDUIT UP IN FLOOR TO END OF HUB TABLE. PROVIDE AND INSTALL FLEX CABLE WIRING THROUGH STUB-UP CONDUIT INTO TUBING CHASE AT END OF TABLE. MAKE FINAL CONNECTIONS TO JUNCTION BOXES AND/OR RECEPTACLES MOUNTED ON TABLE. COORDINATE LIGHTING INSTALLATION REQUIREMENTS WITH CONDUIT ROUTING, REFER TO E4.0 FOR LIGHTING INFORMATION. FIELD VERIFY AND COORDINATE WITH HUB TABLE MANUFACTURER FOR EXACT REQUIREMENTS AND LOCATIONS PRIOR TO INSTALLATION.

- ( 11 ) PROVIDE POWER AND DATA JUNCTIONS BOXES IN SLAB WITH COVER PLATE FOR FUTURE ORDERING KIOSK. PROVIDE ALL NECESSARY TRENCHING AND CONDUITS. VERIFY EXACT QUANTITY AND LOCATION WITH EQUIPMENT INSTALLER AND TACO BELL CONSTRUCTION MANAGER.
- (12) PROVIDE 1/2" C WITH 2#14 FOR HEATER FOR CONTROL WIRING (PATIO DESIGN OPTION).
- (13) NOT USED.
- (14) NOT USED.
- (15) CONTRACTOR TO RUN POWER AND DATA CONDUITS FOR V LINE AND FRONT POS COUNTER UNDER SLAB. CONFIRM ROUTE WITH TACO
- BELL REPRESENTATIVE PRIOR TO ROUGH-IN. (16) LOCATION OF TBCCB COMBINED CONTROL BOX. COORDINATE EXACT LOCATION IN FIELD. CONSIDER OPERATOR'S NEED TO ACCESS SWITCHES ON THE FRONT OF THE CONTROL BOX AND BUILT IN OCCUPANCY SENSOR FOR MANAGER'S OFFICE. CIRCUIT TO B-10.
- (17) REFER TO DETAIL 7/E3.1.

A 04/20/18 BUILDING COMMENTS 02.16.18 ISSUED FOR PERMIT

05/31/18 | IFC

CONTRACT DATE: 01.08.18 **BUILDING TYPE:** 

PLAN VERSION: DEC 2017 BRAND DESIGNER: SITE NUMBER: 312262/442877

T40M-O

STORE NUMBER: 2016088.09

Taco Bell

20779 E. 13 MILE RD. ROSEVILLE, MI 48066

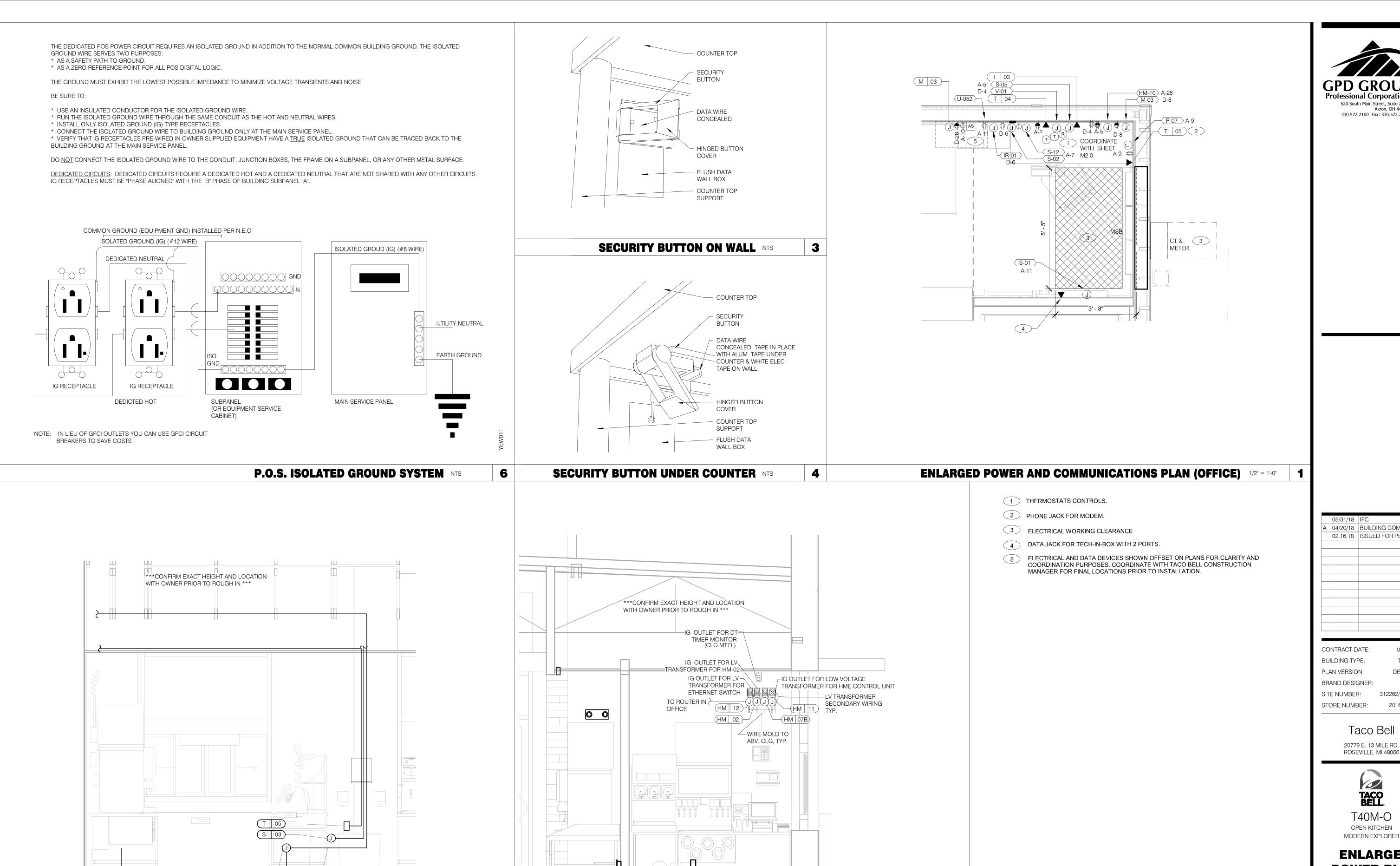


T40M-O OPEN KITCHEN MODERN EXPLORER

**ELECTRICAL POWER PLAN** 

GENERAL NOTES - ELECTRICAL POWER PLAN NTS

KEY NOTES - ELECTRICAL POWER PLAN NTS



**ENLARGED INTERIOR ELEVATION NTS** 

(HM 04)

- CONDUIT IN WALL (TYP.) SEE SCHEDULE FOR SIZE

7

ENLARGED INTERIOR ELEVATION (D/T WINDOW) NTS

(1) 1" DIA. CONDUIT STUB UP FROM UNDERSLAB 520 South Main Street, Suite 2531 Akron, OH 44311 330.572.2100 Fax: 330.572.2102

A 04/20/18 BUILDING COMMENTS 02.16.18 ISSUED FOR PERMIT

CONTRACT DATE: **BUILDING TYPE:** 

PLAN VERSION: BRAND DESIGNER:

312262/442877 STORE NUMBER:

> Taco Bell 20779 E. 13 MILE RD.

T40M-O

DEC 2017

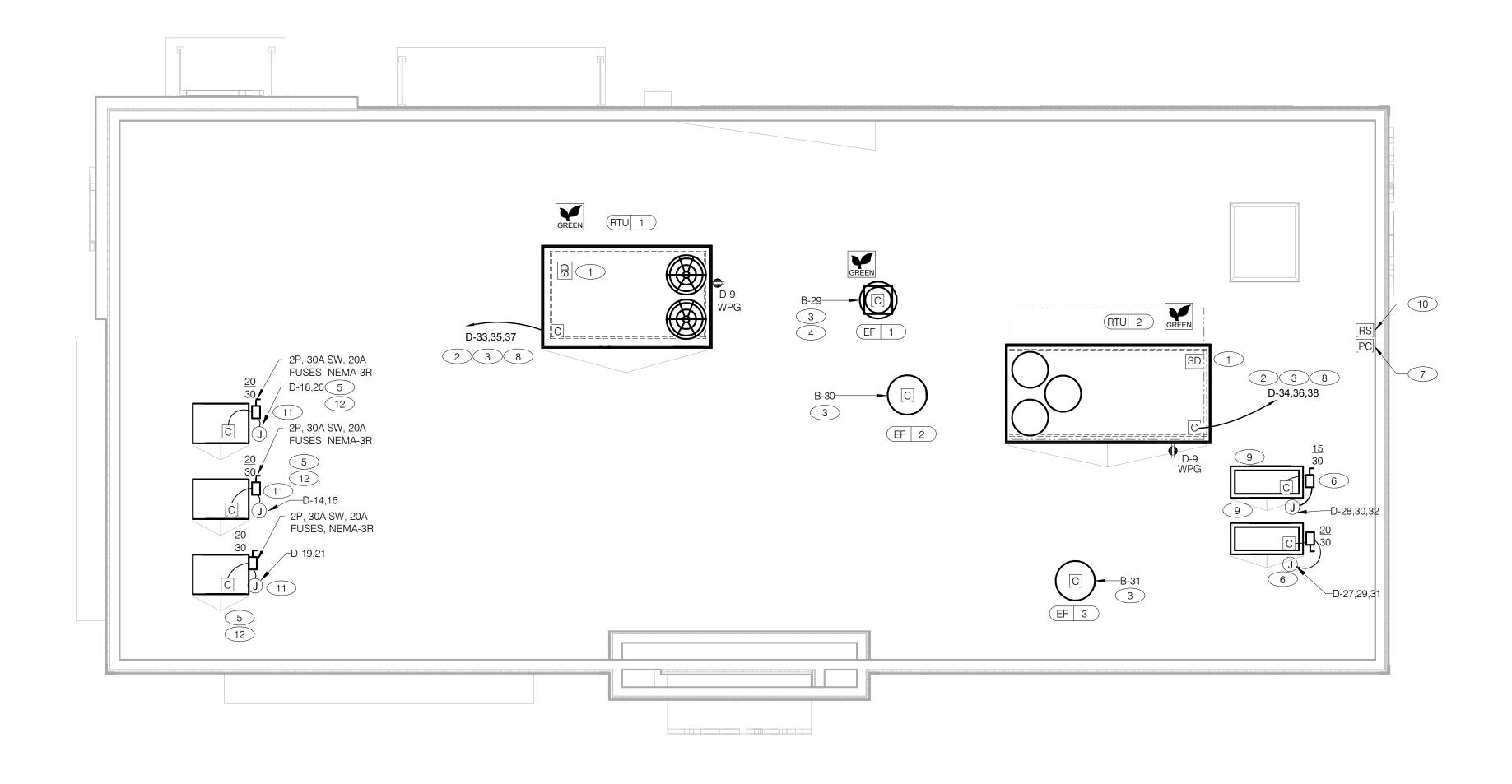


OPEN KITCHEN MODERN EXPLORER

**ENLARGED POWER PLAN AND DETAILS** 

KEY NOTES - ELECTRICAL ENLARGED DETAILS NTS





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

NO CONDUIT SHALL BE FASTENED DIRECTLY TO OR THROUGH ROOFING MEMBRANE.

ALL CUTS IN ROOFING MEMBRANE SHALL BE MINIMAL AND IN ACCORDANCE WITH ROOFING MFR'S AND INSTALLER'S REQ'S.

C. REFER TO MECH. DWGS FOR MECHANICAL EQUIPMENT ELECTRICAL REQ'S.

ALL EXPOSED ELECTRICAL CONDUITS SHALL PENETRATE ROOF MEMBRANE AT PIPE HOODS U.O.N.

REFER TO ELECT. EQUIP. SCHEDULE AND ELECT. ROUGH-IN PLAN.

ALL CONDUITS FROM EXHAUST FANS SHALL BE ROUTED INSIDE OF CURB.

ALL CONDUITS TO AND FROM RTU SHALL BE ROUTED INSIDE OF RTU CURB. COORDINATE WITH RTU MFR RECOMMENDATIONS.

H. REFER TO GENERAL NOTES SHEET E2.0 FOR IMPORTANT INFORMATION.

ALL WIRING AND CONDUITS SHALL BE CONCEALED. NO CONDUITS PERMITTED TO RUN EXPOSED ACROSS ROOF DECK. ROUTE ALL CONDUITS THROUGH EQUIPMENT ROOF CURBS OR ARCHITECT SPECIFIED ROOF PENETRATIONS.

ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE.

1 SMOKE DETECTOR PROVIDED WITH UNIT. REFER TO MECHANICAL DRAWINGS.

SPECIFIED RTU IS SUPPLIED WITH THRU THE BASE ELECTRICAL CONNECTIONS AND FACTORY INSTALLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURES AND ACCESS THRU SWINGING DOOR.

3 POWER AND CONTROL ENTRY FROM BOTTOM OF UNIT.

4 CONNECT TO EF-1 RELAY. REF E6.0 THROUGH E6.3.

5 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE ICE MACHINE. MAKE CONNECTION TO ICE MACHINE AND CONDENSING UNIT.

6 REFER TO POWER PLAN FOR CONTINUATION TO COOLER / FREEZER

6 REFER TO POWER PLAN FOR CONTINUATION TO COOLER / FREEZER.

7 MOUNT PHOTOCELL ON THE EAST SIDE OF THE BUILDING 14.0' ABOVE GRADE. CONNECT TO LIGHTING CONTROL PANEL AND RELAYS. SEE E6.0 AND E6.1.

8 RTU'S SHALL BE PROVIDED WITH BUILT-IN DISCONNECT, SINGLE POINT WIRING AND CONVENIENCE OUTLET.

9 CONTRACTOR SHALL VERIFY CIRCUIT BREAKER TYPE, STARTER, DISCONNECT SWITCH, AND FUSE SIZE (IF REQUIRED) WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND FURNISH AND INSTALL EVERYTHING AS REQUIRED.

10 RAIN SENSOR MOUNTED NEXT TO PHOTOCELL 14.0' ABOVE GRADE.

GREEN\_

11 PIPE HOOD FOR ICE MACHINE CONDENSERS. SEE ARCHITECTURAL ROOF PLAN.

12 ELECTRICAL CONTRACTOR SHALL MAKE ALL ELEC. CONNECTIONS INCLUDING ALL NECESSARY INTERCONNECTIONS BETWEEN THE COMPRESSOR ON THE ROOF & THE EVAPORATOR IN THE ICE MACHINE AS REQ'D. REFER TO THE MFR'S SHOP DWGS FOR EXACT INSTALL. & INTERCONNECTION RQMTS, PRIOR TO ROUGH-IN INSTALL.

		03/31/16	
	Α	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



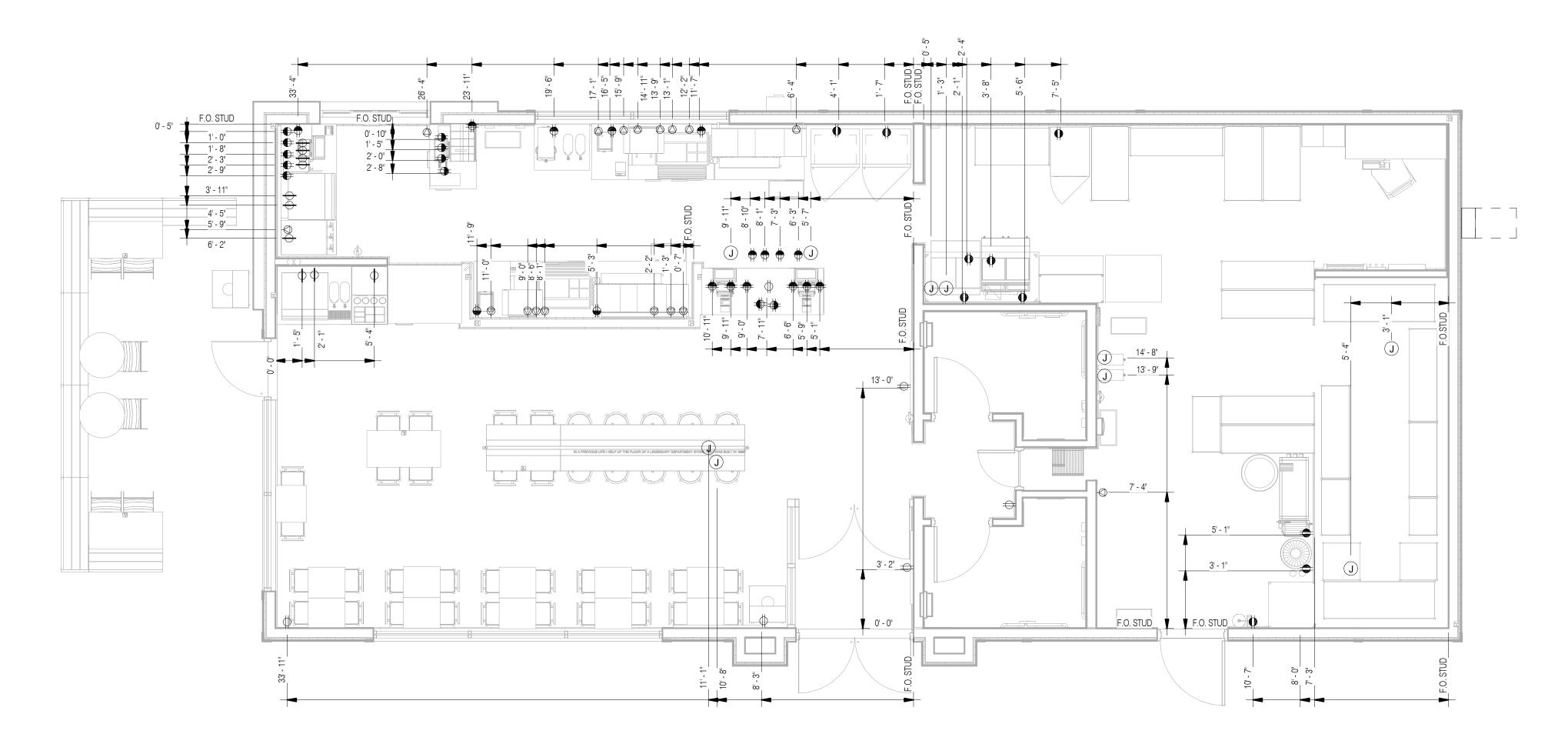
T40M-O
OPEN KITCHEN
MODERN EXPLORER

ELECTRICAL POWER ROOF PLAN

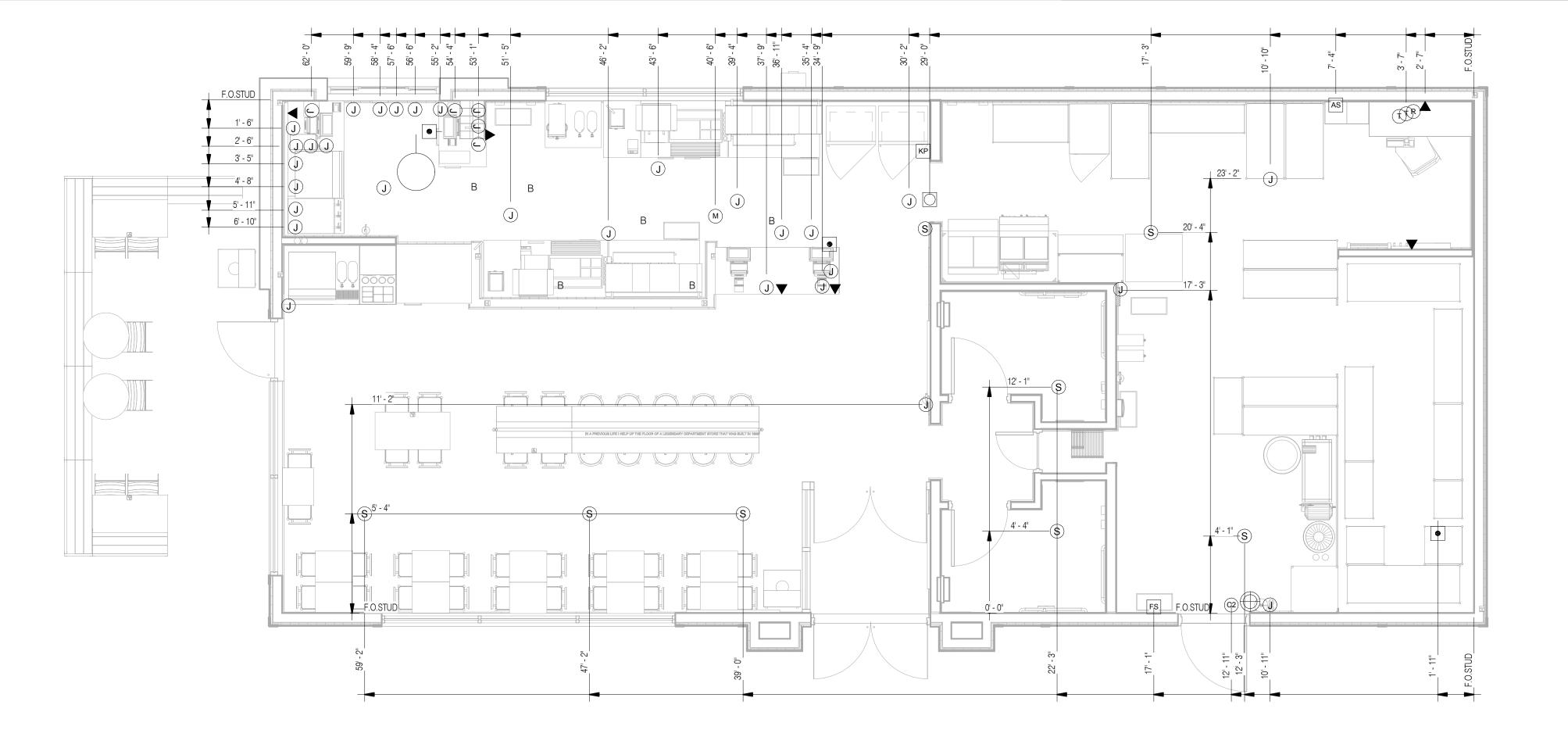
**E3.2** 

PLOT DATE: 5/30/2018 3:24:32 P





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



05/31/18	IFC
02.16.18	ISSUED FOR PERMIT

CONTRACT DATE: 01.
BUILDING TYPE: T4
PLAN VERSION: DEC
BRAND DESIGNER:

 SITE NUMBER:
 312262/442877

 STORE NUMBER:
 2016088.09

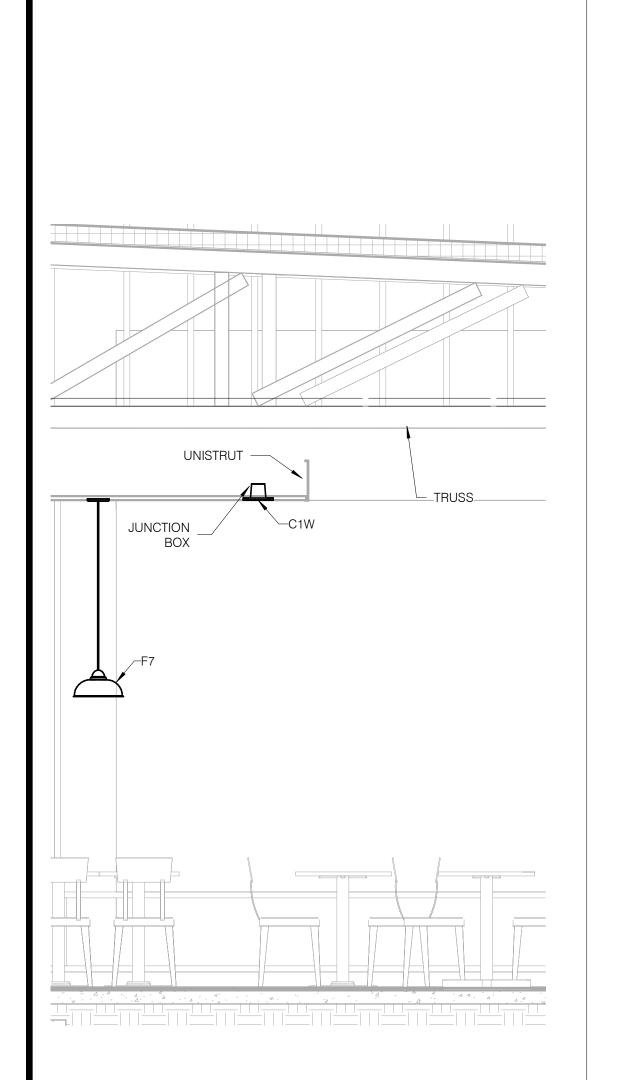
Taco Bell 20779 E. 13 MILE RD. ROSEVILLE, MI 48066

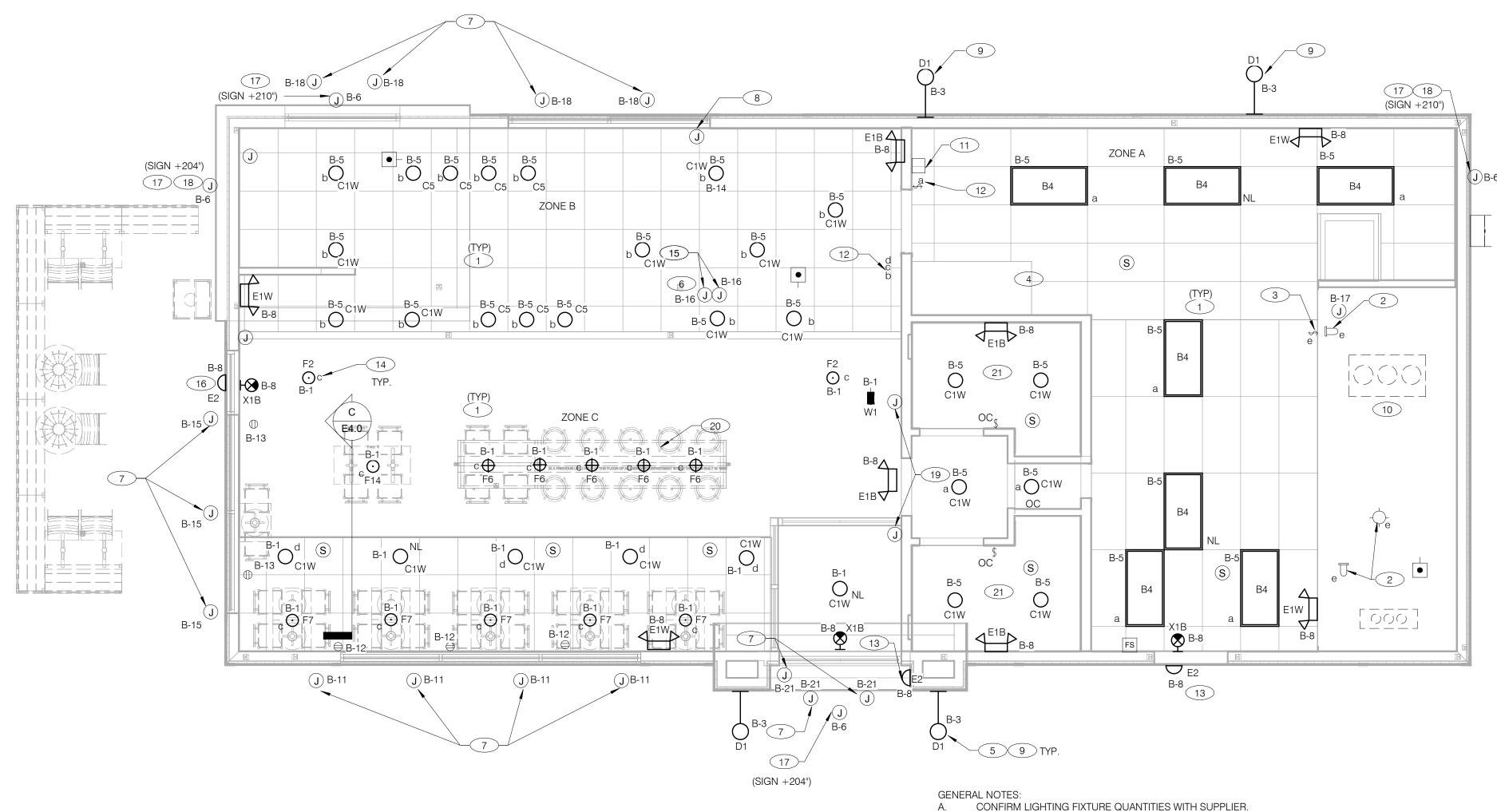


T40M-O
OPEN KITCHEN
MODERN EXPLORER

ELECTRICAL DIMENSIONS PLAN

**E3.3** 





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

	PEND	ANT MOUN	TING DETA	IL NTS C						
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-SO7G-25-S-BRZ	4" SQ 7GA 25FT POLE SINGLE DRILL		LED		120 V/1-0 VA	
B4	7	ВОН	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		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 SCONCE	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	ВОН	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	SPCO310LEDXT10L27KWDE1 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-6OP	12" GALVANIZED PENDANT WITH BLACK CORD AND CANOPY MED BASE SOCKET		1/LED 10A19D0D27K		120 V/1-20 VA	-
F14	1	LOUNGE PENDANT	BASELITE	HD24/78-EXT/59-INT/15'LCBLC/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-LFI6SL 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	UNIVERSAL	-/LED	EM	120 V/1-3 VA	-

EXIT, RED LETTERS, BLACK HSNG

- 1 UTILIZE TIME-CLOCK CONTROLS FOR DINING ROOM CIRCUITS. REFER TO DRAWINGS E6.0 AND E6.1.
- FOR LIGHTING FIXTURES, CONDUIT, CONDUCTORS AND INSTALLATION RESPONSIBILITIES, REFER TO SCOPE OF WORK.
- FIXTURE AND SWITCH FACTORY INSTALLED WITH UNIT. G.C. TO COMPLETE CIRCUITING.
- EXHAUST HOOD LIGHT FIXTURES SUPPLIED WITH HOOD AND MTD IN PRE-WIRED J-BOX. COMPLETE CIRCUITING PER SHEETS E6.0-E6.3.
- COORD. J-BOX LOCATION WITH WOOD FRAMING SO IT REMAINS CONCEALED BEHIND FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DWGS.
- OUTLET FOR MENU BOARD: SEE SHEET E3.0. VERIFY POINT OF CONNECTION. 10 LIGHT PANELS WIRED IN SERIES. G.C. TO MAKE FINAL CONNECTION.
- J-BOX FOR EVERBRITE LIGHTING SYSTEM IN CANOPY. PROVIDE DISCONNECTING MEANS FOR LIGHTING. COORDINATE WITH CANOPY MANUFACTURER FOR ADDITIONAL DETAILS.
- J-BOX FOR LIGHT TROUGH AGAINST WINDOW. VERIFY POINT OF CONNECTION. WIRE VIA EXTERIOR LIGHTING
- CONTACTOR.
- 9 REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR DIMENSIONED LOCATION OF FIXTURE.
- 10 SEAL ALL ELECTRICAL CONDUITS INTO THE WALK-IN COOLER.
- 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.
- PROVIDE LIGHT SWITCHES FOR CONTROL OF LIGHT FIXTURES AS SHOWN. COORDINATE WITH LIGHTING MANUFACTURER FOR TYPE OF SWITCH.
- MOUNT "E2" AT 8'-0" A.F.G. TO CENTER OF FIXTURE. REFER TO ARCHITECTURAL ELEVATIONS.
- 14 SUBSCRIPT "x" CORRESPONDS TO LIGHTING CONTROL SWITCH.
- J-BOX FOR SECURITY (U-052) AND INTERIOR MENU BOARD (L-XX1) RESPECTIVELY.
- MOUNT "E2" AT 8'-6" A.F.G. TO CENTER OF FIXTURE. REFER TO ARCHITECTURAL ELEVATIONS.

- COORDINATE LOCATION OF J-BOX WITH SIGN VENDOR. PROVIDE DISCONNECTING MEANS AS REQUIRED. SEE SCOPE OF WORK.
- COORDINATE LOCATION OF J-BOX WITH TOWER
- PROVIDE J-BOX TO END OF UNISTRUT FOR ROUTING OF LIGHTIING CABLES TO PENDANT LIGHTING FIXTURES. SEE DETAIL C ON E4.0 FOR ADDITIONAL INFORMATION.

VENDOR. SEE SCOPE OF WORK.

- 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.
- CIRCUIT RESTROOM LIGHTS AND OCCUPANCY SENSOR SWITCH AHEAD OF LIGHTING CONTROL

	05/31/18	IFC
Α	04/20/18	BUILDING COMMENTS
	02.16.18	ISSUED FOR PERMIT

**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
BRAND DESIGNER:

SITE NUMBER:

Taco Bell

312262/442877

20779 E. 13 MILE RD. ROSEVILLE, MI 48066



OPEN KITCHEN
MODERN EXPLORER

# LIGHTING PLAN AND DETAILS

**E4.0** 

B

EMERGENCY AND NORMAL LIGHTING MARKED WITH "NL" SUBSCRIPT SHALL OPERATE

AND <u>SWITCHED</u> HOT TO NORMAL BALLAST.

ALL FIXTURES SUPPLIED WITH LAMPS.

FITTING WITH COMPOUND PER NEC 300-(7a).

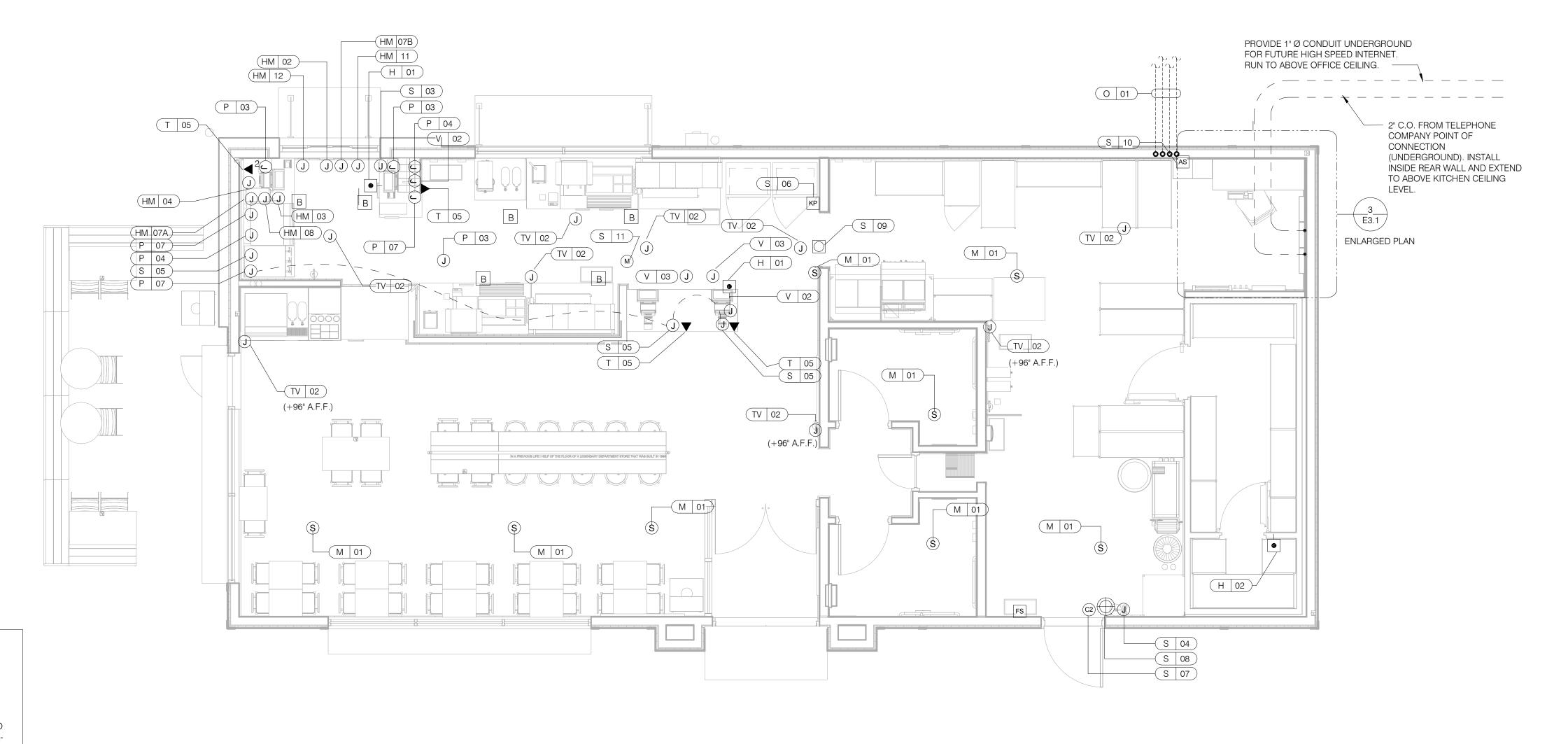
EMERGENCY LIGHTING NOT MARKED WITH "NL" SUBSCRIPT SHALL OPERATE UNDER CONTROL OF LIGHTING SWTICH AS INDICATED. PROVIDE <u>UNSWITCHED</u> CONSTANT HOT TO EMERGENCY BALLAST

ALL CONDUITS ENTERING OR LEAVING COOLER/FREEZER SHALL BE PROVIDED WITH SEAL-OFF

ALL INTERIOR LIGHTING CIRCUITS TO BE WIRED THROUGH TBCCB. SEE E6.0 THROUGH E6.3. CONTRACTOR TO FIELD VERIFY CEILING TYPE AND PROVIDE PROPER MOUNTING HARDWARE.

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





CONTROL IN LOCATION OF HEAD-END (TYP. MANAGER'S 2) DINING ROOM SPEAKERS: DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP.

1) PATIO SPEAKER: DEDICATED WALL-MOUNT VOLUME

VOLUME CONTROL NOTES:

MANAGER'S OFFICE). 3) KITCHEN SPEAKERS: IF CONNECTED TO THE SOUND SYSTEM, CAN EITHER HAVE VOLUME CONTROL BUILT INTO THE SPEAKER ITSELF, OR HAVE A THIRD DEDICATED WALL-MOUNT VOLUME CONTROL IN LOCATION OF HEAD-END (TYP. MANAGER'S OFFICE).

4) RESTROOM SPEAKERS: VOLUME CONTROL BUILT INTO SPEAKER.

-	HOLD-UP BUTTON (MOUNT 2-1/2" BEHIND COUNTER EDGE)	(C2)	DOOR CONTACT (LINKED TO AUDIO / VISUAL ALARM)
( <u>c</u> )	MUSIC SYSTEM SPEAKERS	$\bigoplus$	"SOUND ALERT" DEVICE
	SECURITY STROBE	KP	KEYPAD (MTD AT 48" A.F.F.)
J	J-BOX	AS	ALARM SIREN ABOVE CLG
<b>▼</b>	2" x 4" J-BOX W/ DATA PORTS	В	BUMP PAD (MOUNT AT FRONT COUNTER)
M	MOTION DETECTOR		HOOD FIRE SUPPRESSION
(OC)	OCCUPANCY SENSOR. CEILING MOUNTED. SEE DETAILS	•	ÛSB OUTLETL STATION

COMMUNICATIONS LEGEND NTS	C

SUPPLY AND INSTALL OUTLETS AND CONDUIT FOR OWNER SUPPLIED AND INSTALLED CABLE AND LOW VOLTAGE WIRING (U.O.N.). TELEPHONE AND MUSIC SYSTEM WIRING SHALL BE SUPPLIED AND INSTALLED. SEE SCOPE OF WORK SHEETS.

1 & 2 / E7.0

- SEE SHEETS E3.0 AND E3.1 FOR ELECT. INFO ON POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.
- . THIS PLAN INCLUDES CONDUITS AND J-BOXES FOR POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, TELEPHONE SYSTEM, MUSIC SYSTEM, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.
- ALL OUTLETS AND BOXES MOUNTED IN THE SERVING COUNTER CABINETRY ARE TO BE 24" AFF. INSTALL JUNCTION BOXES WITH CONDUIT UNDER CABINET TO NEAREST WALL AND TO ABOVE CEILING.

<b>COMMUNICATIONS</b>	NOTES NTS
-----------------------	-----------

B

		CO	MMUNICATIO	NS ROUGH-IN SCHEDULE
COMM. TYPE	COMM.	EQUIPMENT ITEM	ELEVATION	REMARKS
Н	01	UNDER COUNTER HOLD-UP BUTTON		SEE DETAIL 6/E3.1.
Н	02	WALL MOUNTED HOLD-UP BUTTON	+18" A.F.F.	SURFACE MTD. 2X4 J-BOX ON INSIDE OF WALK-IN FREEZER HINGE WALL W/ (1) 1/2" CONDUIT TO ABOVE KITCHEN CEILING. BUTTON FACING DOWN. SEE DETAIL 3/E3.1
НМ	02	D/T TIMER SIGNAL PROCESSOR J-BOX	+126" A.F.F	4X4X4" DEEP (MIN.) J-BOX ABV. CLG. W/ (1) 1" CONDUIT TO HM-07B, (1) 1" CONDUIT TO HM-04, (1) 1-1/2" CONDUIT TO HM-08 & (1) 1" CONDUIT TO HM-12. SEE DET. 5/E3.1.
НМ	03	D/T BASE STATION J-BOX	+72" A.F.F.	4X4 J-BOX @ D/T BASE STATION W/ (1) 1-1/2" C TO HM-08 & (1) 1-1/2" C TO HM-07A. SEE DETAIL 5/E3.1.
НМ	04	D/T COMM SYSTEM J-BOX	+18" A.F.F.	4X8 J-BOX W/ (1) 1" CONDUIT TO HM-02, (1) 1" CONDUIT TO HM-07A, (1) 1" CONDUIT TO PICK-UP WINDOW D/T LOOP, AND (3) 1" CONDUIT TO D/T MENU BOARD. SEE DETAIL 7/E3.1
НМ	07A	D/T TIMER DISPLAY J-BOX	+62" A.F.F.	2X4 J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1" C TO HM-04. SEE DETAIL 5/E3.1.
НМ	07B	D/T TIMER DISPLAY J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-02. SEE DETAIL 5/E3.1
НМ	08	D/T J-BOX	+96" A.F.F.	4X4X4" DEEP (MIN.) J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1-1/2" CONDUIT TO HM-02. SEE DETAIL 5/E3.1.
НМ	11	D/T CONTROL UNIT J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-12. SEE DETAIL 5/E3.1.
НМ	12	D/T/ ETHERNET SWITCH J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-11, (1) 1" CONDUIT TO HM-02 & (1) 1" CONDUIT TO OFFICE ROUTER.
М	01	SPEAKER	CEILING	SPEAKER WIRING FROM SPEAKERS IN DINING ROOM TO AMPLIFIER IN OFFICE. FOR EXACT LOCATION OF SPEAKERS, SEE LIGHTING PLAN SHEET E4.0.
М	03	MUSIC SYSTEM J-BOX (SEE ENLARGED PLAN)	+60" A.F.F.	4X4 J-BOX & COVER W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR MUSIC SYSTEM. SEE SCOPE OF WORK.
0	01	(4) 1" DATA CONDUITS	U.G.	FROM MENU BOARD/SPEAKER POST TO ABOVE CEILING FOR OCB AND D/T/ COMM. SYSTEM. SEE DETAIL 3/E7.0
Р	03	KITCHEN MONITOR J-BOX	+84" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO ABOVE CIELING
Р	04	BUMP PAD J-BOX	+24" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-03.
Р	07	POS J-BOX W/ 2-1/2" DIA HOLE IN COVER PLATE	+24" A.F.F.	6X6X4" DEEP J-BOX W/ 2-1/2" CONDUIT IN WALL TO ABV. CEILING, WITH PULL STRING FOR POS.
S	03	J-BOX SECURITY SYSTEM	+30" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. FOR HOLD-UP BUTTON SIGNAL WIRE.
S	04	J-BOX SECURITY SYSTEM	+84" A.F.F.	2X4 J-BOX W/ COVER & (1) 1/2" CONDUIT TO ABOVE CEILING.
S	05	J-BOX SECURITY SYSTEM	+24" A.F.F.	2X4 J-BOX W/ 3/4" CONDUIT TO S-05 AND TO ABOVE CEILING.
S	06	J-BOX SECURITY SYSTEM	+48" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR SECURITY SYSTEM KEYPAD.

		CON	MUNICATIO	NS ROUGH-IN SCHEDULE
COMM. TYPE	COMM.	EQUIPMENT ITEM	ELEVATION	REMARKS
S	07	J-BOX SECURITY SYSTEM	TOP OF JAMB	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR DOOR CONTACT.
S	08	"SOUND ALERT" DEVICE	CEILING	CONNECT TO SECURITY SYSTEM.
S	09	SECURITY STROBE LIGHT	CEILING	CONNECT TO SECURITY SYSTEM.
S	10	ALARM SIREN	ABV. CEILING	CONNECT TO SECURITY SYSTEM.
S	11	MOTION / HEAT DETECTOR	+78" A.F.F.	STUB 1/2" CONDUIT. D5835 OR D5820. MOUNT 90" A.F.F. FOR OFFICE
Т	03	VOICE LINE PHONE JACK	+106" A.F.F.	2X4 J-BOX W/ DOUBLE RJ-11 PHONE JACK & 1" CONDUIT TO ABOVE CEILING
T	04	COMPUTER PHONE JACK (SEE ENLARGED PLAN)	+42" A.F.F.	2X4 J-BOX W/ RJ-11 PHONE JACK AND 1" CONDUIT TO ABOVE CEILING.
Т	05	POS PHONE JACK	+24" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING.
TV	02		+96" A.F.F.	MINI-DOME CAMERA MTD. TO BTM. OF MENU BOARD BULKHEAD. 2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING MTD. ON BACK SIDE OF BULKHEAD (6 TOTAL).
V	02	CREDIT CARD READER (VSAT)	+24" A.F.F.	2X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES.
V	03	DIGITAL MENUBOARD	+106" A.F.F.	J-BOX MTD. TO TOP OF MENU BOARD BULKHEAD. 2X4 J-BOX W/ (1) 1/2" CONDUIT (2
S	01	J-BOX SECURITY SYSTEMS	+48" A.F.F.	4X4 J-BOX AT SECUIRTY SYSTEM CONTROL PANEL W/ (1) 2" CONDUIT TO S-02
S	02	J-BOX SECURITY SYSTEMS	+106" A.F.F.	4X4 J-BOX ADJACENT TO T-02 W/ (1) 2" CONDUIT TO S-01
S	12	J-BOX SECURITY DVR	+42" A.F.F.	2X4 J-BOX FOR SECURITY DVR
Т	02	SECURITY SYSTEM PHONE JACK	+106" A.F.F.	2X4 J-BOX ADJACENT TO S-02 W/ RJ-31X PHONE JACK
V	01	ALTERNATE PAYMENT ROUTER BOX	+90" A.F.F.	4X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES
НМ	10	OCB SWITCH	+52" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING
IR	01	IRRIGATION TIMER	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES

05/31/18	IFC
02.16.18	ISSUED FOR PERMIT

COMMUNICATIONS PLAN 1/4" = 1'-0"

CONTRACT DATE: 01.08.18 BUILDING TYPE: PLAN VERSION: DEC 2017 BRAND DESIGNER:

T40M-O

SITE NUMBER: 312262/442877 STORE NUMBER: 2016088.09

Taco Bell

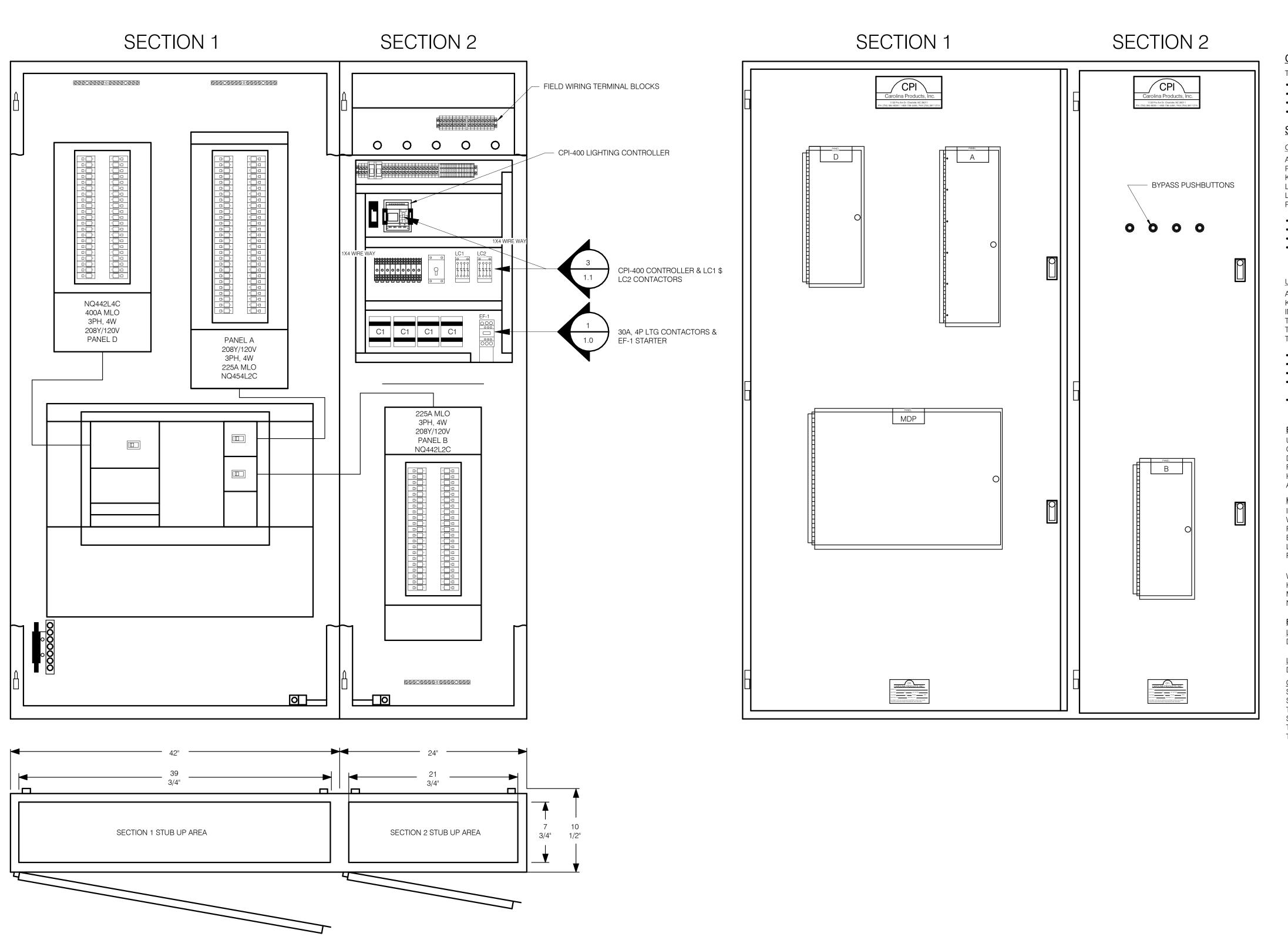
20779 E. 13 MILE RD. ROSEVILLE, MI 48066



OPEN KITCHEN MODERN EXPLORER

## COMMUNICATIONS **PLAN**





### <u>CPI INTEGRATED TACO BELL CONTROLS :</u>

- THE CPI CONTROL SYSTEM IS TO ACTIVATE OR DEACTIVATE THE FOLLOWING:
- BUILDING SIGNS AND PARKING LIGHTS
- KITCHEN AND DINING LIGHTING EXHAUST HOOD FAN (EF-1 AND EF-2)
- MAKE UP AIR / REPLACEMENT AIR FAN

### **SEQUENCE OF OPERATION**

### OCCUPIED MODE

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

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

### UNOCCUPIED MODE

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

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

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

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

### HOOD STAT

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

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

### **EXTERIOR LIGHTS**

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

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

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

UNITIZED SWITCHGEAR WITH INTEGRATED CONTROLS SUPPLIER:

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

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

	05/31/18	IFC
Α	04/20/18	BUILDING COMMENTS

CONTRACT DATE: 01.08.18
BUILDING TYPE: T40M-O
PLAN VERSION: DEC 2017

BRAND DESIGNER: 312262/442877
STORE NUMBER: 2016088.09

Taco Bell

20779 E. 13 MILE RD. ROSEVILLE, MI 48066

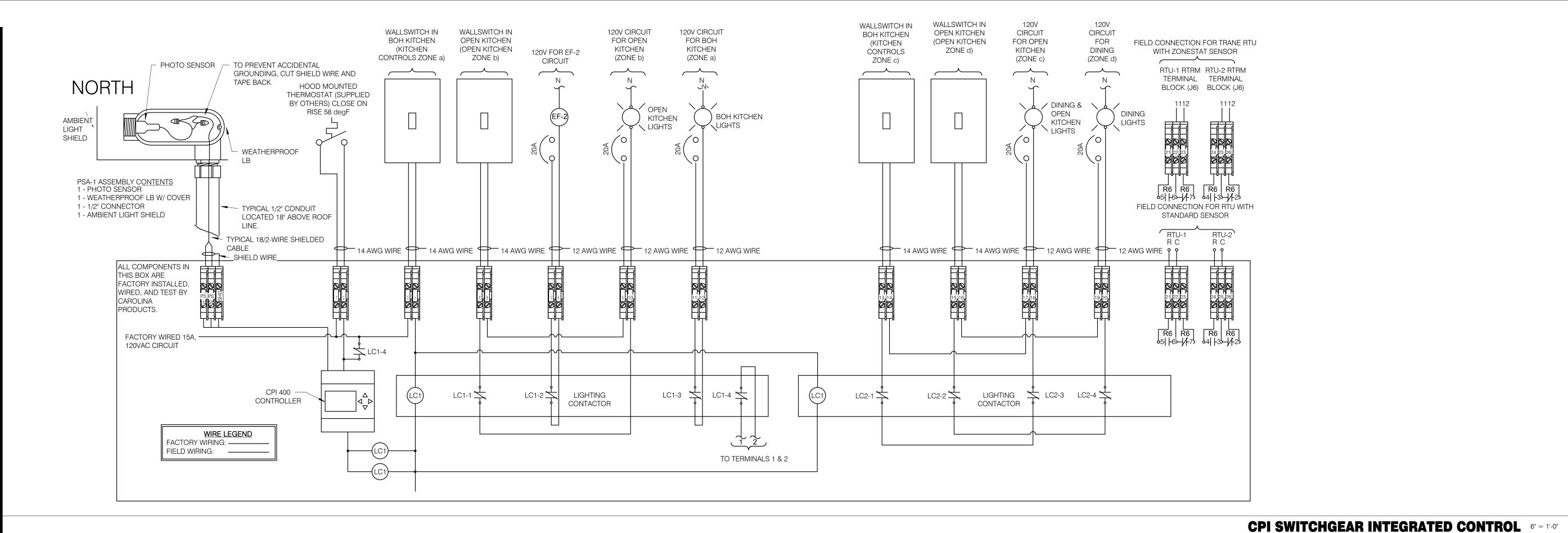


T40M-O
OPEN KITCHEN
MODERN EXPLORER

ELECTRICAL DETAILS - TBCCB

(FOR REFERENCE ONLY)

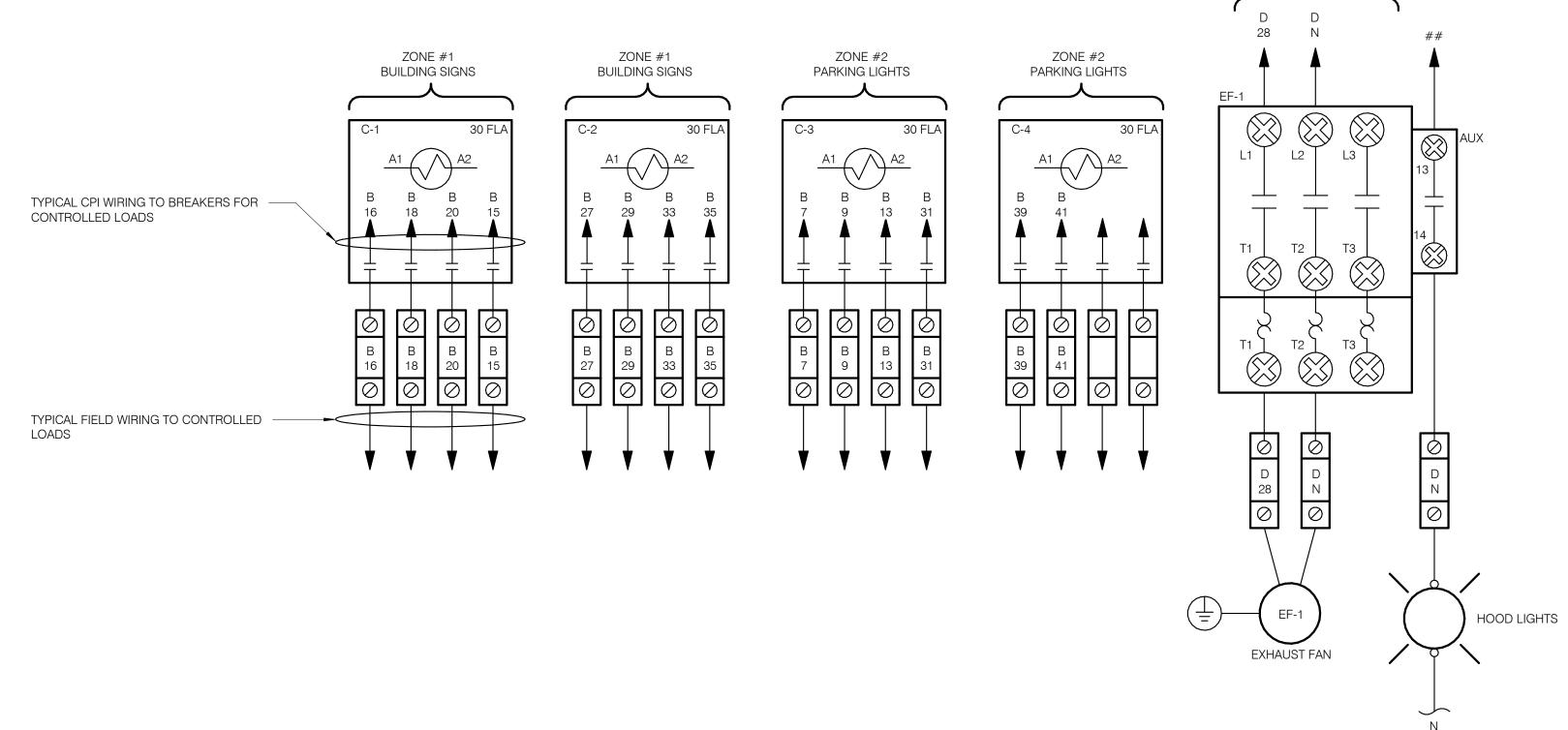
**E6.0** 

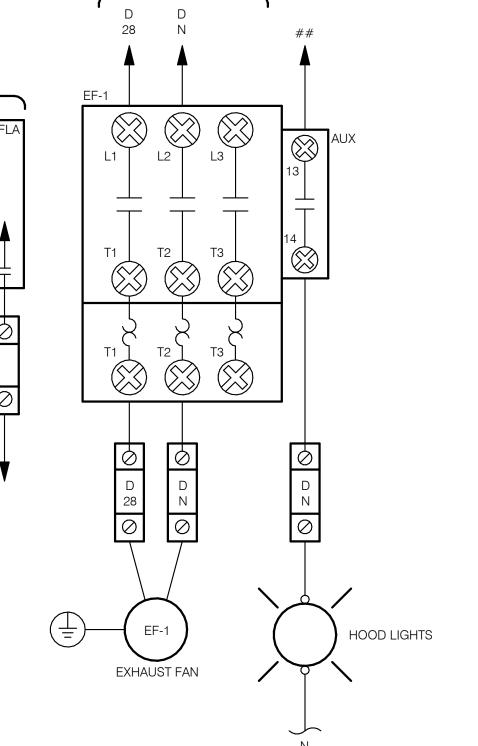




### **IMPORTANT NOTE:**

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





EXHAUST FAN #1

	05/31/18	IFC
Α	04/20/18	BUILDING COMMENTS

**Professional Corporation** 

520 South Main Street, Suite 2531

Akron, OH 44311 330.572.2100 Fax: 330.572.2102

CONTRACT DATE: **BUILDING TYPE:** T40M-O PLAN VERSION: BRAND DESIGNER:

SITE NUMBER: 312262/442877 STORE NUMBER:

Taco Bell

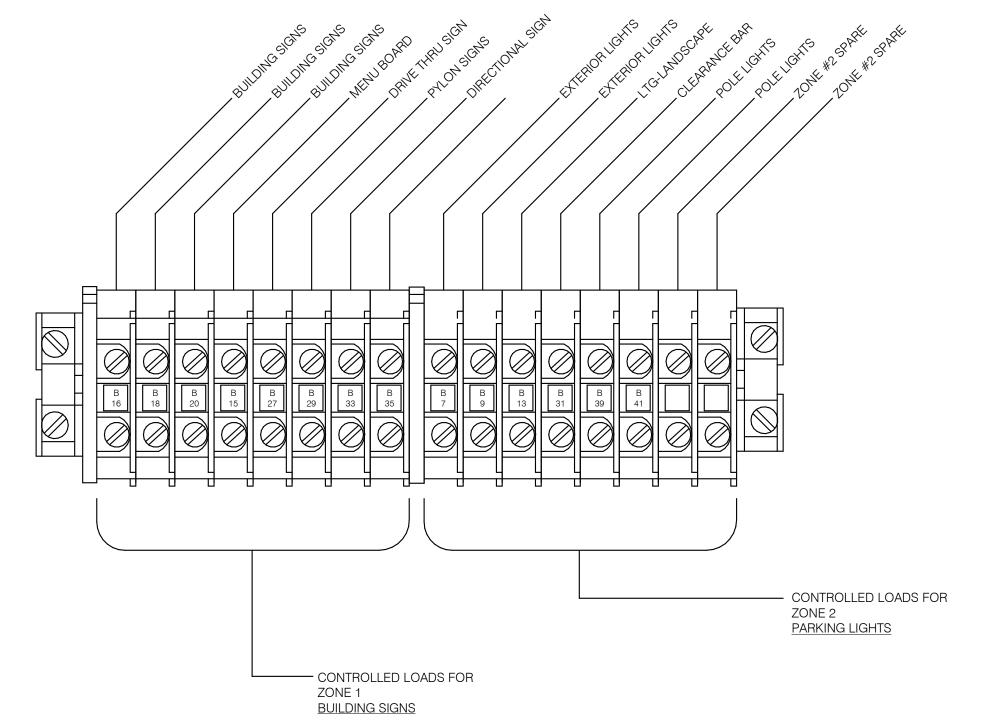
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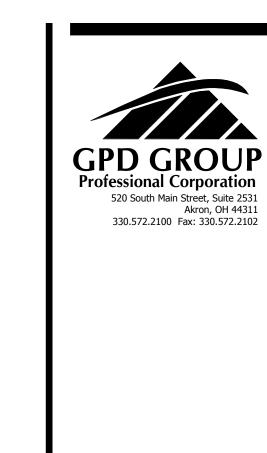


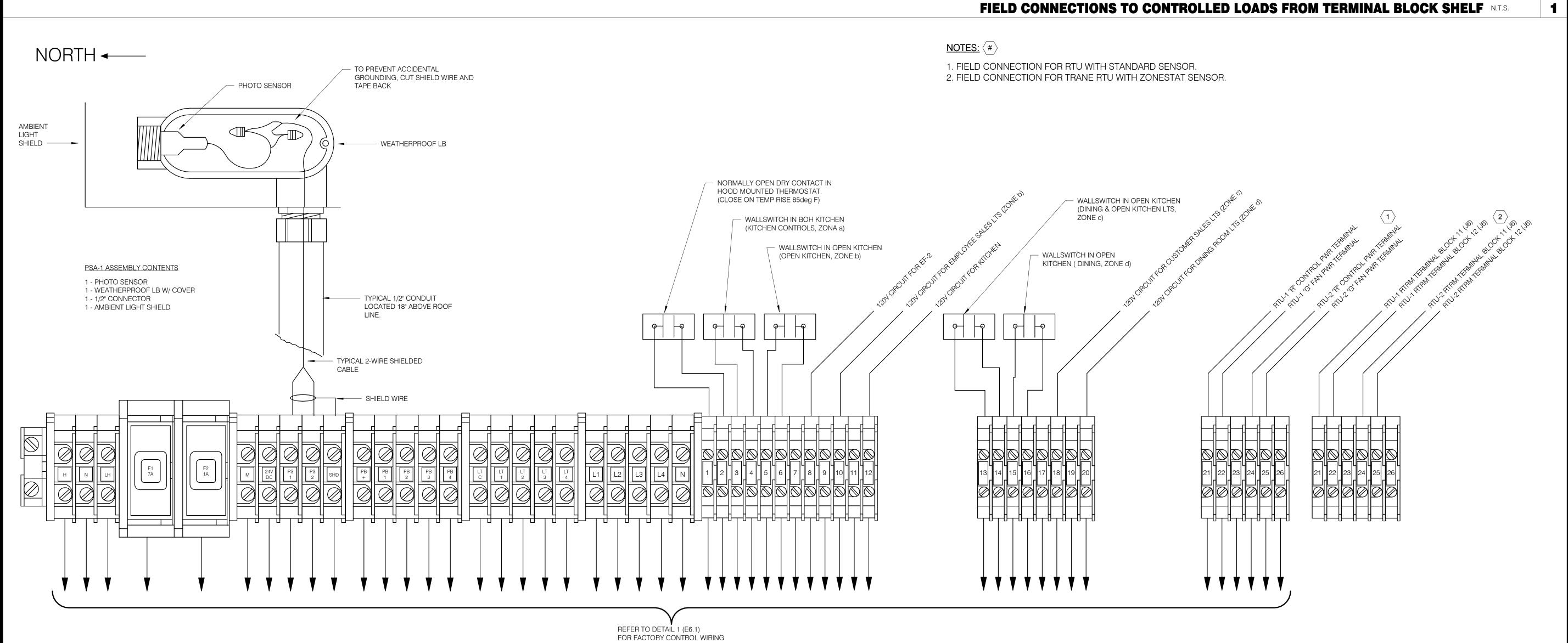
OPEN KITCHEN MODERN EXPLORER

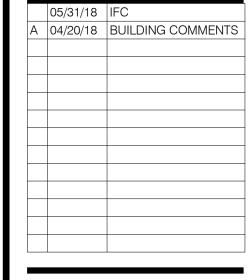
**ELECTRICAL DETAILS - TBCCB** 

(FOR REFERENCE ONLY)









CONTRACT DATE: 01.08.18
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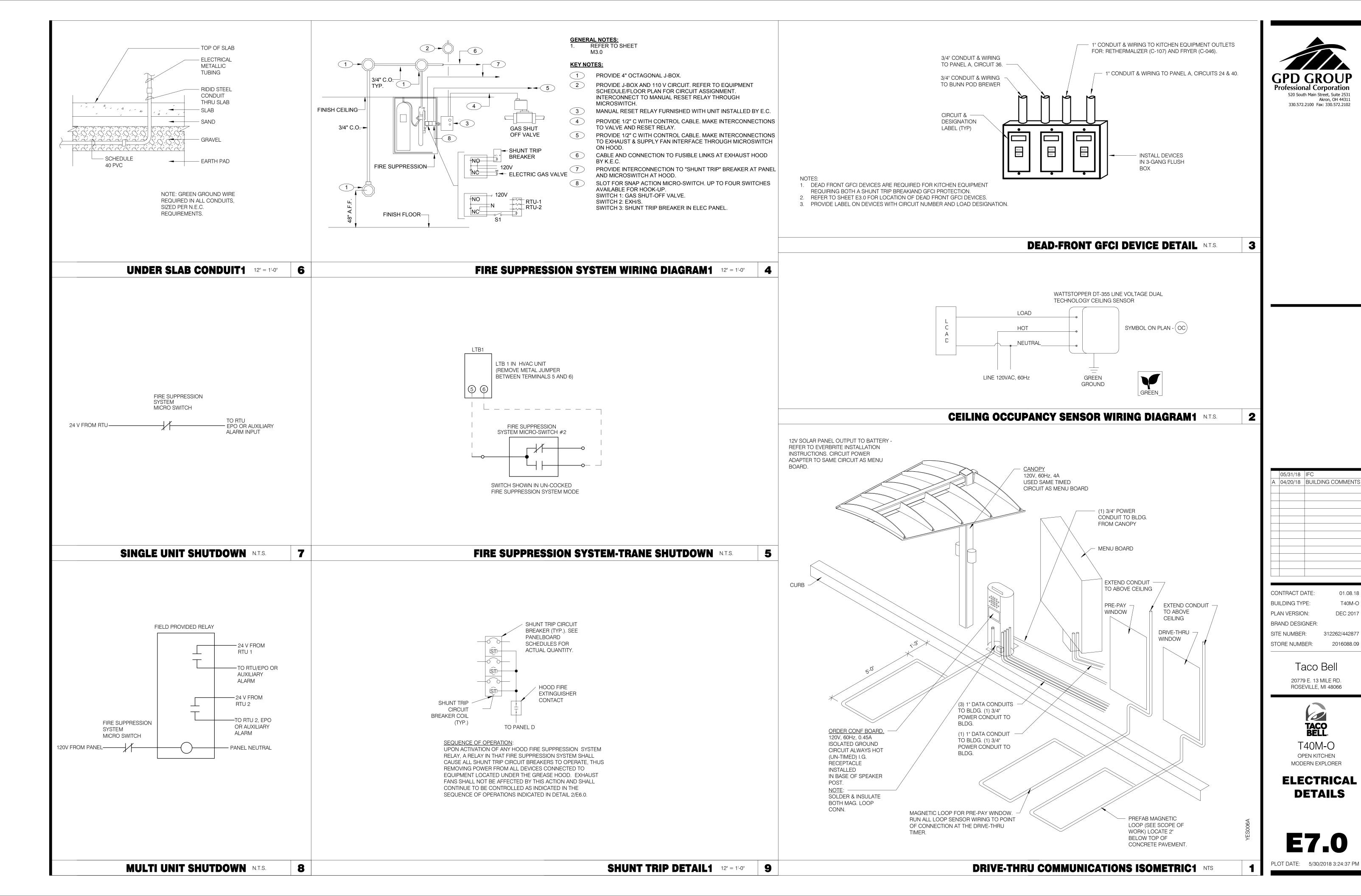
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T40M-O
OPEN KITCHEN
MODERN EXPLORER

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E6.2



01.08.18

T40M-O

DEC 2017