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

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

TACO BELL™

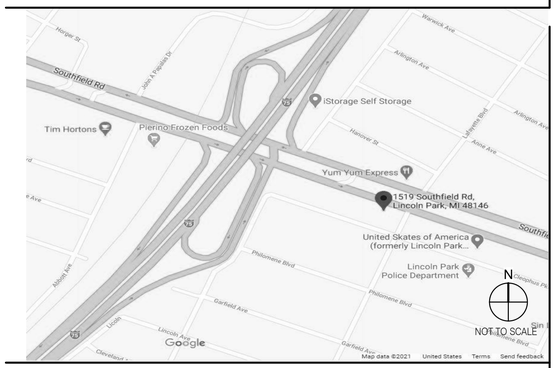
- A. ALL WORK SHALL CONFORM TO THE 2015 EDITION OF THE MICHIGAN BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND REGULATIONS OF THE CITY OF LINCOLN PARK, MI AND COUNTY OF WAYNE.
- B. IT IS INTENDED THAT A COMPLETE OCCUPIABLE BUILDING PROJECT IS PROVIDED.
- C. THE GENERAL CONDITIONS OF THE 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, PREPARED BY KEM-TEC AND IS INCLUDED IN THESE DOCUMENTS.
- E. THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL INVESTIGATION BY PROFESSIONAL SERVICE INDUSTRIES. THE REPORT IS PART OF THESE CONTRACT DOCUMENTS, AND THE CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT ITS RECOMMENDATIONS, THOUGH SOME MAY NOT BE SPECIFICALLY DETAILED ON THE PLANS.
- F. DO NOT SCALE THESE DRAWINGS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. ANY DISCREPANCIES IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO STARTING WORK.
- G. ALL PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE TACO BELL CORPORATE BRAND DESIGNER OR CONSTRUCTION MANAGER, IN WRITING, PRIOR TO INSTALLATION.
- H. RETAIN THE PROJECT GEOTECHNICAL ENGINEER TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING (INCLUDING UTILITY TRENCHES) AND FOUNDATION PHASE OF CONSTRUCTION AS RECOMMENDED IN THE GEOTECHNICAL REPORT. ALL TESTING AND INSPECTION REPORTS, INCLUDING FINAL SUMMATION LETTER, SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND OWNER. G.C. SHALL CERTIFY PAD ELEVATION PRIOR TO START OF FOUNDATION WORK.
- I. SUBMIT, PAY FEES AND OBTAIN ALL PERMITS ASSOCIATED WITH THE PROJECT EXCEPT GENERAL BUILDING PERMIT. THIS INCLUDES, BUT IS NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, FIRE SPRINKLER, HOOD ANSUL, OR OTHER RELATED FIRE PERMITS, ENCROACHMENT PERMIT, ETC. YUM BRANDS WILL PAY FOR "CONNECTION FEES" ASSOCIATED WITH UTILITY PERMITS. PAY FOR TEMPORARY FACILITIES FEES AS REQUIRED TO COMPLETE THE WORK IN A TIMELY MANNER.
- J. PROVIDE EACH SUBCONTRACTOR WITH A COMPLETE AGENCY-PERMITTED DRAWING SET AT TIME OF CONSTRUCTION.
- K. ALL ABBREVIATIONS INCLUDED FOLLOW INDUSTRY STANDARDS. CONTACT ARCHITECT IF ANY ABBREVIATIONS ARE NOT CLEAR.
- L. GC SHALL SUPPLY AND INSTALL ALL ASPECTS OF THE PROJECT DESCRIBED IN THIS DRAWING SET UNLESS OTHERWISE NOTED. SEE SCOPE OF WORK FOR EXCEPTIONS.
- M. GRAPHIC AND WRITTEN INFORMATION ON DRAWINGS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.
- N. ALL MATERIALS STAGED TO BE USED FOR CONSTRUCTION SHALL BE PROTECTED FROM EXCESSIVE MOISTURE. IF THEY ARE EXPOSED TO MOISTURE THEY SHOULD BE ADEQUATELY DRIED AND INSPECTED FOR COMPLIANCEWITH MINIMUM QUALITY STANDARDS BEFORE ENCAPSULATED INTO THE BUILDING.
- O. ALL PAINTS, ADHESIVES, COATINGS AND SEALANTS USED INSIDE THE BUILDING SHALL HAVE A LOW VOC CONTENT.

PROJECT GENERAL NOTES

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

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

GENERAL DRAWING SYMBOLS



VICINITY MAP

LEGAL JURISDICTION:	CITY OF LINCOLN PARK
PLUMBING CODE:	2015 MICHIGAN PLUMBING CODE
MECHANICAL CODE:	2015 MICHIGAN MECHANICAL CODE
BUILDING CODE:	2015 MICHIGAN BUILDING CODE
ELECTRICAL CODE:	2017 NATIONAL ELECTRIC CODE
ACCESSIBILITY:	ICC ANSI A117.1 & 2015 MICHIGAN BUILDING CODE
HEALTH CODE:	2009 MICHIGAN MODIFIED FDA FOOD CODE
ENERGY CODE:	2015 COMMERICAL MICHIGAN UNIFORM ENERGY CODE
FIRE CODE:	2012 INTERNATIONAL FIRE CODE
OCCUPANCY:	A-2
TYPE CONSTRUCTION:	TYPE VB
SEATING:	6 INTERIOR
BUILDING AREA:	1,699 S.F.

TYPE	AREA		FACTOR		OCCUPANTS
DINING ROOM	120	S.F.	1:15 S.F.	NET	8
KITCHEN	1113	S.F.	1:200 S.F.	GROSS	6
OFFICE	77	S.F.	1:100 S.F.	GROSS	1
ACCESSORY RESTROOMS & PASSAGE	150	S.F.	0		0
TOTAL					15

MPC 403.2 SEPARATE FACILITIES
EXCEPTION #2: SEPARATE FACILITIES SHALL NOT BE REQUIRED IN STRUCTURES OR TENANT SPACES WITH A TOTAL OCCUPANT LOAD, INCLUDING BOTH EMPLOYEES AND CUSTOMERS, OF 15 OR FEWER.

PROJECT SUMMARY

# PHONE LINES:	25 PAIR CABLE IN 2" CONDUIT
ELECTRIC SERVICE:	600 AMPS / 3 PHASE / 120-208 VOLT
GAS:	750,000 BTUH
WIND SPEED:	115 M.P.H.
EARTHQUAKE ZONE:	SDC-B
ROOF LIVE LOAD:	20 P.S.F.

DESIGN CRITERIA

CURRENT ZONING: MUNICIPAL BUSINESS DISTRICT

REFER TO CIVIL DRAWINGS.

FOR TACO BELL USE/APPROVAL ONLY

BUILDING S.F.:	1,699 S.F.
SITE SIZE:	26,006 S.F.
PARKING COUNT:	18
INT. SEATING:	6
EXT. SEATING:	0
2 KIOSK COUNT:	5
L.T.O.:	YES
DT DMP:	YES
DT DPB:	YES

LEGAL DESCRIPTION

OWNER
YUM BRANDS, INC.
1 GLEN BELLWAY
IRVINE, CA 92618
CONTACT: STEVE PULCHEON
PHONE: 951.315.3462

CONSTRUCTION MANAGER
YUM BRANDS, INC.
1 GLEN BELLWAY
IRVINE, CA 92618
CONTACT: STEVE PULCHEON
PHONE: 951.315.3462

CIVIL ENGINEER
GPD GROUP, PROFESSIONAL CORPORATION
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: MATT YANDA
PHONE: 330.572.2100

GEOTECHNICAL ENGINEER
INTERTEK-PSI
37483 INTERCHANGE DRIVE
FARMINGTON HILLS, MI 48335
CONTACT: KEVIN DUBNICKI, P.E.
PHONE: 248.957.9911

ARCHITECT
GPD GROUP, PROFESSIONAL CORPORATION
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: MATT YANDA
PHONE: 330.572.2100

STRUCTURAL ENGINEER
GPD GROUP, PROFESSIONAL CORPORATION
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: MATT YANDA
PHONE: 330.572.2100

PROJECT DIRECTORY

SEWER
CITY OF LINCOLN PARK
1355 SOUTHFIELD ROAD
LINCOLN PARK, MI 48146
CONTACT: JOHN MEYERS
PHONE: 313.643.0883

WATER
CITY OF LINCOLN PARK
1355 SOUTHFIELD ROAD
LINCOLN PARK, MI 48146
CONTACT: JOHN MEYERS
PHONE: 313.643.0883

GAS
DTE ENERGY
CONTACT: PAMULA WOODSIDE
PRINCIPAL ACCOUNT MANAGER
PHONE: 313.235.1555

ELECTRIC
DTE ENERGY
CONTACT: PAMULA WOODSIDE
PRINCIPAL ACCOUNT MANAGER
PHONE: 313.235.1555

TELEPHONE
AT&T
CONTACT: DAVID HARDAWAY
PHONE: 313.240.5541

ROADS
WAYNE COUNTY DEPT. OF PUBLIC SERVICES
ENGINEERING DIVISION
CONTACT:ALI ALJAWAD
PHONE: 734.595.6504 X 2079

UTILITY CONTACTS

SHEET ISSUED ON DATE INDICATED, WITH MODIFICATIONS ●
SHEET ISSUED ON DATE INDICATED, NO MODIFICATIONS ○

TITLE/GEN. CONDITIONS

		ISSUE 12/16/2020	04.15.2021	05.24.2021
T1.0	TITLE SHEET	●	●	●
G1.0	GREEN CHECKLIST SHEET	●	○	○
G2.0	TRASH ENCLOSURE DETAILS	●	○	○
G3.0	PEST PREVENTION GUIDE	●	○	○
G4.0	LIFE SAFETY AND SIGNAGE PLAN	●	●	○
G4.1	SIGNAGE DETAILS	●	○	○

TITLE/SITE SHEET COUNT: 6

STRUCTURAL

S1.0	FOUNDATION PLAN	●	○	○
S2.0	WALL FRAMING PLAN	●	○	○
S3.0	ROOF FRAMING PLAN	●	○	○
S4.0	STRUCTURAL DETAILS	●	○	○
S4.1	STRUCTURAL DETAILS	●	○	○
S4.2	STRUCTURAL DETAILS	●	○	○
S4.3	STRUCTURAL DETAILS	●	○	○
S4.4	STRUCTURAL SECTIONS	●	○	○
S5.0	CANOPY/AWNING BLOCKING ELEVATIONS	●	○	○

STRUCTURAL SHEET COUNT: 9

CIVIL / LANDSCAPE

	SEE CIVIL DRAWINGS FOR SHEET INDEX.	●	●	●

ARCHITECTURAL

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

ARCHITECTURAL SHEET COUNT: 26

ACCESSIBILITY

ADA1.0	ACCESSIBILITY REQUIREMENTS	●	○	○
ADA1.1	ACCESSIBILITY REQUIREMENTS	●	○	○
ADA1.2	ACCESSIBILITY REQUIREMENTS	●	○	○

ACCESSIBILITY SHEET COUNT: 3

MECHANICAL

M1.0	MECHANICAL SCHEDULES AND NOTES	●	●	●
M2.0	DUCT AND DIFFUSER PLAN	●	●	●
M2.1	MECHANICAL ROOF PLAN	●	●	○
M3.0	HOOD DETAILS AND SECTIONS	●	○	○
2 M4.0	MECHANICAL DETAILS	●	○	○

MECHANICAL SHEET COUNT: 5

PLUMBING

P1.0	PLUMBING SCHEDULES AND NOTES	●	●	○
P2.0	WASTE AND VENT PLAN	●	●	○
P3.0	WATER AND GAS PLAN	●	●	○
P4.0	PLUMBING ROUGH-IN PLAN	●	●	○
P5.0	RISER DIAGRAMS	●	●	○
P6.0	PLUMBING DETAILS	●	●	○

PLUMBING SHEET COUNT: 6

ELECTRICAL

E1.0	SITE ELECTRICAL PLAN	●	○	●
E2.0	ELECTRICAL ONE LINE DIAGRAM AND LEGEND	●	○	○
E2.1	ELECTRICAL SCHEDULES	●	○	○
E2.2	ELECTRICAL SCHEDULES	●	○	○
E3.0	ELECTRICAL POWER PLAN	●	○	○
E3.1	ENLARGED POWER PLAN AND DETAILS	●	○	○
E3.2	ELECTRICAL POWER ROOF PLAN	●	○	○
E4.0	LIGHTING PLAN AND DETAILS	●	○	●
E5.0	COMMUNICATIONS PLAN	●	○	○
E6.0	ELECTRICAL DETAILS - TBCCB	●	○	○
E6.1	ELECTRICAL DETAILS - TBCCB	●	○	○
E7.0	ELECTRICAL DETAILS	●	○	○
E7.1	ELECTRICAL DETAILS	●	○	○

ELECTRICAL SHEET COUNT: 13

SCOPE OF WORK

SW1.0	SCOPE OF WORK	●	○	○

SCOPE OF WORK SHEET COUNT: 1

SPECIFICATIONS

	IN BOOK FORMAT	●	○	○

SHEET INDEX

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
2	05.24.21	NTP/Engineering Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. XS-6
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
TITLE SHEET

T1.0

PLOT DATE: 6/14/2021 7:38:35 AM

C:\Users\rsmith\Documents\TB_Lincoln Park MI_ARCH_Rudyd1.rvt

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

CHECK LIST NUMBER EXPLANATION:

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

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

P = INDICATES THAT SCOPE IS ALREADY IN THE PROTOTYPE DRAWINGS

* = INDICATES OPTIONAL ITEMS

	FEASIBILITY	DESIGN	CONSTRUCTION	COMMISIONING
	✓	✓	✓	✓

FORMALDEHYDE LIMITS
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ADHESIVE VOC LIMITS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
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	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
GREEN CHECKLIST SHEET

G1.0

PLOT DATE: 6/14/2021 7:38:06 AM

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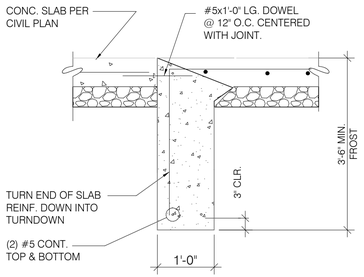
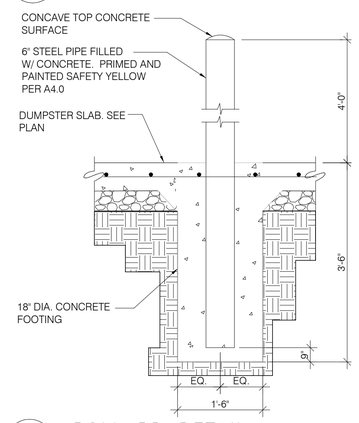
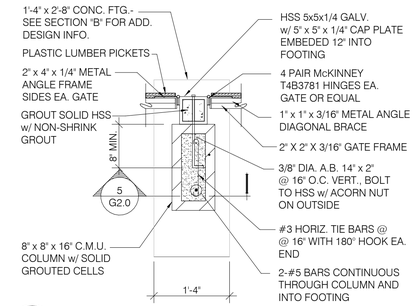
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



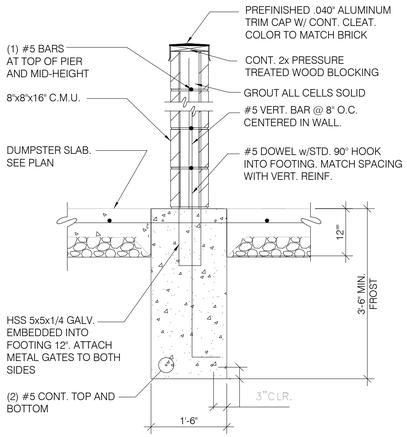
6 SECTION
3/4"=1'-0"



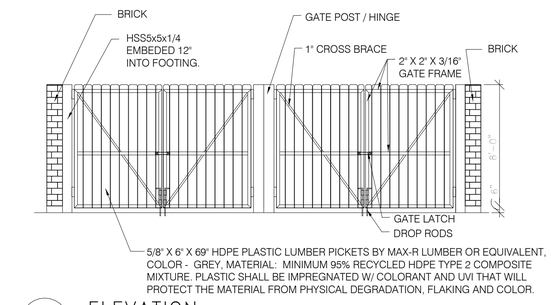
7 BOLLARD DETAIL
3/4"=1'-0"



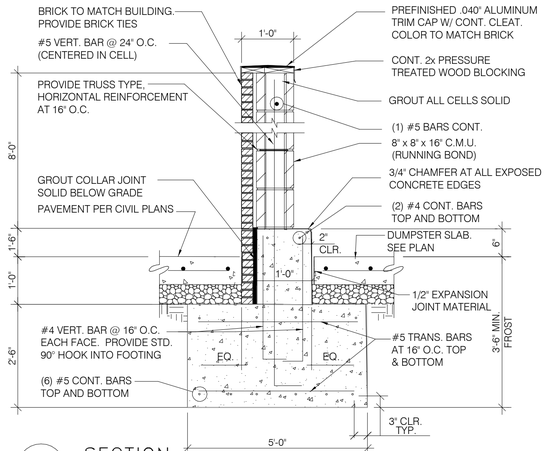
4 JAMB DETAIL
3/4"=1'-0"



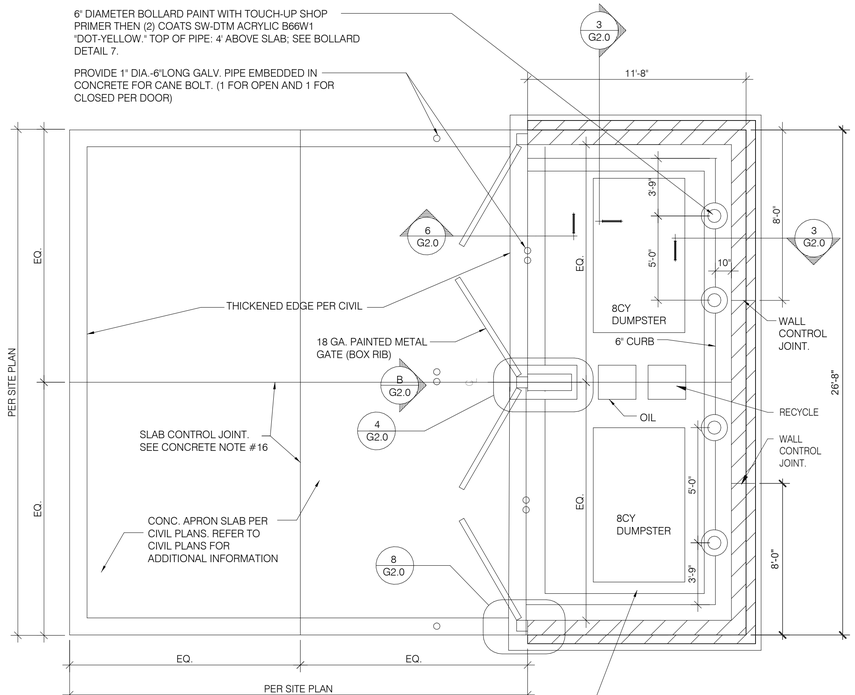
5 SECTION
3/4"=1'-0"



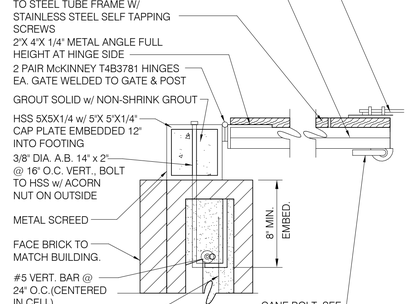
B ELEVATION
N.T.S.



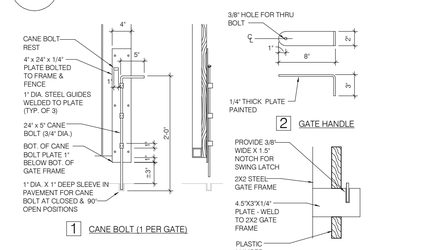
3 SECTION
3/4"=1'-0"



A DUMPSTER ENCLOSURE PLAN
N.T.S.



8 JAMB DETAIL
N.T.S.



1 CANE BOLT (1 PER GATE)

2 GATE HANDLE

3 STOP PLATE SECTION

9 GATE DETAIL
N.T.S.

GENERAL NOTES:

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2015 MICHIGAN BUILDING CODE (2015 IBC). MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES AND THE CONTRACT SPECIFICATIONS.
2. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE JOB CONDITIONS AND RESTRICTIONS.
3. IMPLEMENTATION OF JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. LOCATION SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
5. AREAS SHALL BE ACCESSIBLE FOR DELIVERY AND COLLECTION.
6. GATES SHALL BE CORRUGATED METAL DOORS AND MUST BE APPROVED BY PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.
7. GATE LATCHES SHALL BE OF THE PLUNGER BAR TYPE OR EQUIVALENT AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.

FOUNDATION NOTES:

1. SEE S1.0 FOR FOUNDATION NOTES.

GATE HARDWARE:

ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVANIZED.

GATE STOP:

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

GATE NOTES:

(4) EQUAL WIDE x 8-0" HIGH MTL. GATES, PLASTIC LUMBER PICKETS FASTEN TO STEEL TUBE FRAME W/ STAINLESS STEEL SELF TAPPING SCREWS, 1"X 1"X 3/16" METAL ANGLE DIAGONAL BRACE. PRIME AND PAINT ALL STEEL COMPONENTS.

MASONRY NOTES :

1. ALL BRICK MASONRY SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA AND LOCAL BUILDING CODE REQUIREMENTS.)
2. ALL CONCRETE MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-13/ASCE 5-13/TMS 402-13) AND "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1-13/ASCE 6-13/TMS 602-13) AND LOCAL BUILDING CODE REQUIREMENTS.
3. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, TYPE II.
4. ASTM C270, TYPE "S" MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI SHALL BE USED FOR ALL MASONRY WALLS EXCEPT TYPE 'N' MORTAR MAY BE USED FOR VENEER ONLY.
5. GROUT TO FILL CORES SHALL BE ASTM C476, COARSE GROUT (3/8" MAXIMUM AGGREGATE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI IN 28 DAYS.
6. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
7. LAY MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS IN MORTAR IN STARTING COURSE OF FOOTINGS AND IN ALL COURSES OF COLUMNS AND PILASTERS, AND WHERE ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. BLOCKS TO BE STAGGERED (RUNNING BOND).
8. VERTICAL REINFORCING LAP SPLICES SHALL BE 48 BAR DIAMETERS.
9. PROVIDE HORIZONTAL LADDER TYPE JOINT REINFORCING WITH 9 GAGE SIDE AND CROSS RODS (GALVANIZED) SPACED AT 16" ON CENTER VERTICALLY. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED A MINIMUM OF (2) CROSS BARS OR 6", WHICHEVER IS GREATER.
10. MAXIMUM GROUT POUR SHALL BE 5 FEET. CONSOLIDATE BY MECHANICAL VIBRATION.
11. MORTAR PROTRUSIONS, EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND FILLED, SHALL BE REMOVED. MORTAR PROTRUSIONS IN COLLAR-JOINT SHALL BE REMOVED.
12. GROUT CORES SOLID A MINIMUM OF ONE COURSE BELOW ANY CHANGE IN WALL THICKNESS.
13. THE COLLAR-JOINT IN MULTI-WYTHE WALLS BELOW GRADE SHALL BE FULLY GROUTED AS THE WALL IS CONSTRUCTED.
14. FILL ALL BEARING POCKETS WITH SOLID MASONRY AFTER INSTALLING BEAMS, JOISTS OR JOIST GIRDERS.
15. WHERE THERE IS A CHANGE IN BOND BEAM ELEVATION, PROVIDE LAP BETWEEN BONDS BEAMS THROUGH 2 BARS OF VERTICAL REINFORCING OR 4 FEET, WHICHEVER IS GREATER.
16. ALL CORNERS ARE TO BE TIED BY MASONRY BOND.
17. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT APPROXIMATELY 20' O.C. AND A MINIMUM OF 10' FROM WALL CORNERS.
18. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE GROUTED.
19. APPROVED GROUT STOPS ARE REQUIRED BELOW HORIZONTAL STEEL IN PARTIALLY GROUTED WALLS. BAGS. NEWSPAPERS, ETC. ARE NOT APPROVED GROUT STOPS.
20. INITIAL BED JOINT SHALL BE 1/4"MIN. 1 "MAX. SUBSEQUENT BED JOINTS SHALL BE 1/4 "- MIN., 5/8 " MAX.

CONCRETE NOTES:

1. REINFORCED CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-14) COMPLY WITH ASTM C94; ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE"; ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"; AND CRSI'S "MANUAL OF STANDARD PRACTICE".
2. CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 4000 PSI 28 DAY COMPRESSIVE STRENGTH F'C)
3. PROVIDE AIR ENTRAINMENT (5% ±1%) FOR ALL CONCRETE EXPOSED TO FREEZE/THAW IN ACCORDANCE WITH ASTM C 260.
4. DESIGN MIXES: SUBMIT DESIGNS FOR EACH CONCRETE MIX FOR THE PROJECT PER CHAPTER 5 OF ACI 318-11.
5. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (145 PCF) WITH CEMENT CONFORMING TO ASTM C150, TYPE I.
6. AGGREGATE SHALL CONFORM TO ASTM C33 FOR NORMAL WEIGHT CONCRETE.
7. PRIOR TO CONCRETE PLACEMENT, THE CONTRACTOR SHALL SUBMIT A CONCRETE MIX DESIGN PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS TO THE ARCHITECT FOR REVIEW.
8. CONCRETE PRACTICES SHALL BE FOLLOWED FOR COLD WEATHER/HOT WEATHER CONSTRUCTION IN ACCORDANCE WITH ACI 305 & 306.
9. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
10. PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION. PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS.
11. REINFORCEMENT SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE A.C.I. "DETAILING MANUAL NO. SP-66", LATEST EDITION. SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS, INCLUDING DETAILS OF FABRICATION, BENDING, AND PLACEMENT, PREPARED ACCORDING TO ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
12. REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR BARS.
13. REINFORCING BARS SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVER:
    CAST AGAINST EARTH:3"
    EXPOSED TO EARTH OR WEATHER (#5 OR SMALLER): 1 1/2"
    EXPOSED TO EARTH OR WEATHER (#6 OR LARGER): 2"
    CONCRETE NOT EXPOSED TO WEATHER: 3/4"
14. LEVELING GROUT SHALL BE NON-SHRINK, NON-METALLIC TYPE, FACTORY PREMIXED GROUT IN ACCORDANCE WITH ASTM C109, WITH F'C OF NOT LESS THAN 5000 PSI.
15. ANCHOR RODS SHALL BE ASTM F1554, GRADE 36 (GALVANIZED).
16. PROVIDE SAW-CUT CONTROL JOINTS IN THE CONCRETE SLAB AS SHOWN ON THE DRAWINGS. IF NOT SPECIFIED ON THE DRAWINGS, PROVIDE 1/8" WIDE x 1" DEEP SAW-CUT CONTROL JOINTS WITH THE FOLLOWING PROVISIONS: JOINTS SHALL BE LOCATED AT EACH BUILDING COLUMN AND SLAB DISCONTINUITY AND SHALL BE EQUALLY SPACED IN BOTH DIRECTIONS WITH A MINIMUM SPACING OF 10'-0" AND A MAXIMUM JOINT SPACING OF 12'-0".
17. SLAB FINISHES: COMPLY WITH ACI 302.1R FOR SCREEDING, RESTRAIGHTENING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES. PROVIDE THE FOLLOWING FINISHES:
    SMOOTH-FORMED FINISH FOR CONCRETE EXPOSED TO VIEW, COATED, OR COVERED BY WATERPROOFING OR OTHER DIRECT-APPLIED MATERIAL; ROUGH-FORMED FINISH ELSEWHERE.

STEEL NOTES:

1. STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE A.I.S.C. "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (FOURTEENTH EDITION) AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT SECTION 4.2 OF THE CODE WHICH SHALL NOT BE APPLICABLE TO THIS PROJECT.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
   A. CHANNELS, ANGLES, PLATES AND MISCELLANEOUS CONNECTION MATERIAL: ASTM A-36 WITH A MINIMUM YIELD STRENGTH OF 36,000 PSI, UNO.
   B. STEEL TUBING: ASTM A500, GRADE B, WITH A MINIMUM YIELD STRENGTH OF 46,000 PSI.
3. NUTS SHALL CONFORM TO ASTM A563 HEAVY HEX CARBON STEEL.
4. WASHERS SHALL CONFORM TO ASTM F436 HARDENED CARBON STEEL.
5. BOLTS, NUTS, & WASHERS SHALL BE FURNISHED WITH ZINC COATING IN ACCORDANCE WITH ASTM A153.
6. WELDING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE ANSI/AWS D1.1, AMERICAN
7. WELDING SOCIETY, LATEST EDITION. USE E70XX ELECTRODES. STEEL EXPOSED TO THE EXTERIOR SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A123.
8. DO NOT PAINT STEEL WHERE ENCASED WITH CONCRETE, OR AT FIELD WELD AREAS.
9. NONMETALLIC SHRINKAGE-RESISTANT GROUT: PRE-MIXED, NONCORROSIVE, NONSTAINING PRODUCT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER REDUCING AGENTS, COMPLYING WITH CE-CRD C621.
10. THE STRUCTURAL STEEL FABRICATOR, AND/OR GENERAL CONTRACTOR, SHALL VERIFY EXISTING DIMENSIONS AND CONDITIONS AT THE SITE. ANY DISCREPANCY FOUND SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PREPARATION OF SHOP DRAWINGS. DRAWINGS SHALL INCLUDE FIELD MEASUREMENTS AND CONDITIONS.

SPECIAL INSPECTIONS :

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

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

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

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

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
TRASH ENCLOSURE DETAILS

G2.0

PLOT DATE: 6/14/2021 7:38:09 AM

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

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

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

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

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

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

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

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

FACTORS THAT WE CANNOT CONTROL, BUT CAN ANTICIPATE/MITIGATE:
a. WEATHER / CLIMACTIC ZONE
b. LOCALIZED SPECIAL PEST ISSUES (PAST PEST HISTORY)
c. BUILDING LOCATION - PARTICULARLY A CONCERN IN URBAN AREAS. LITTER, AGING UTILITIES, SUBWAYS AND FOOT TRAFFIC LEVELS MUST BE ACCOUNTED FOR.
d. BUILDING AGE
e. BUILDING PLACEMENT
f. NEIGHBORHOOD (PHYSICAL AND SOCIOECONOMIC) CONDITIONS

* COMBINATION FACILITY CAN MEAN AN INLINE LOCATION OR MULTI-USE FACILITY (FOR EXAMPLE, ADDING A BAR TO A RESTAURANT OR PLACING A RESTAURANT IN A TRAVEL CENTER ADDS COMPLEXITIES DUE TO INCREASED PEST OPPORTUNITIES.)
**THE AGE OF THE BUILDING INTRODUCES ISSUES LIKE: CONSTRUCTION MATERIALS AND BUILDING STANDARDS.

GUIDING PRINCIPLE 2 – BUILDING DESIGNED FOR EXCLUSION, INSPECTION, CLEANING AND TREATMENT: USING PROPER TECHNIQUES TO KEEP PESTS OUT IS EASY ENOUGH BUT TIME AND USE EVENTUALLY TAKE THEIR TOLL ON THE ENTIRE STRUCTURE. THE RESULTS CAN BE RAPID DETERIORATION AND PEST INTRUSION/INFESTATION. 1. USE HIGH QUALITY CONSTRUCTION MATERIALS TO PREVENT THE INTRUSION OF MOISTURE AND PESTS (SPECIFICS AVAILABLE IF REQUIRED). MOISTURE INVITES THE FULL SPECTRUM OF PESTS TO ENTER AND BECOME ESTABLISHED IN THE BUILDING, RESULTING IN A THREAT TO PUBLIC HEALTH AND DAMAGE TO THE ASSET. THIS APPLIES TO MOISTURE WITHIN THE BUILDING AS WELL AS ENVIRONMENTAL MOISTURE. COUNTERS, BEVERAGE MACHINES, DRAINS, SINKS ALL HAVE TO BE WELL SEALED TO PREVENT MOISTURE FROM PENETRATING INTO CRACKS, CREVICES OR VOIDS.

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

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

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

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

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

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

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

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

(APPENDIX FOLLOWS)

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

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

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

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

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

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

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

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

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

H. ROOF CONSTRUCTION:
• SINGLE MEMBRANE OR SMOOTH ASPHALT IS PREFERRED; AVOID BALLASTED ROOFING OR HOT MOP ROOFS. • ACCESSES TO ROOF ARE CONVENIENTLY LOCATED, COVERED AND SEALED WHEN CLOSED. • CURBING (RUN-OFF STOP) IS DESIGNED TO A 12-18 INCHES HEIGHT MINIMUM. • MINIMAL FLAT SURFACES ARE AVAILABLE FOR NESTING/LOAFING SITES. • ROOF DESIGNED TO DETER STORAGE OF ANY KIND. • NO SKY LIGHTS ARE PRESENT; OR ONLY DOUBLE DOMED SKYLIGHTS ARE USED AND ARE WELL SEALED. • THERE ARE NO BRIGHT COLORS ATTRACTIVE TO INSECTS (YELLOW, RED), OR BIRDS (WHITE). • ONLY QUALITY FLASHING IS USED. • EQUIPMENT AND METAL DUCTWORK ARE PROPERLY MOUNTED WITH ALL JOINTS SEALED.
ROOF DRAINAGE:
• ALL ROOF DRAIN PIPES PROPERLY TREATED WITH NH3 TO AVOID RUSTING. • OPEN PIPES AND VENTS ARE SCREENED WITH 1/4 -INCH SCREENING OR CAPPED TO KEEP PESTS OUT. • ROOF DRAIN PIPES ARE INSULATED TO PREVENT FREEZING. • ROOF DRAINS ARE ROUTED TO THE SANITARY SEWER; DOWN-SPOUTS CARRY WATER AWAY FROM BUILDING. • CANOPY RUNOFF IS ROUTED AND DOES NOT RUN OFF ANY EDGE. • NO DEPRESSIONS OR SITUATIONS EXIST THAT CREATE STANDING WATER.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PEST ISOLATION (CONCEPT): PEST PROOF INSIDE THE BUILDING TO CONFINE PESTS AND KEEP THEM FROM MOVING INTO NEW AREAS. AN EXAMPLE MIGHT BE COMPARTMENTALIZING A BUILDING (LIKE SHIP BULKHEADS) TO ISOLATE AN INFESTATION IN ONE AREA AND MAKE PESTS EASIER TO ERADICATE.

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

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

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

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

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

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

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

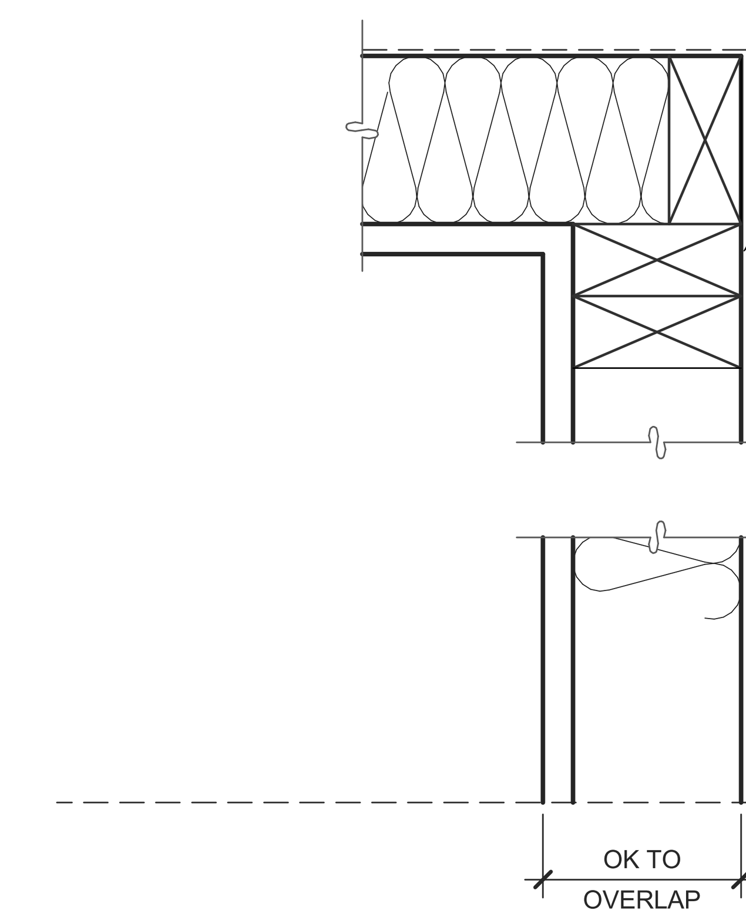
2. SCREENING MATERIALS:
• STEEL WOOL IS USED TO PLUG SMALL OPENINGS WHERE PESTS MAY ENTER OR MOVE WITHIN STRUCTURES. STEEL WOOL IS USEFUL WHERE AIR MOVEMENT IS DESIRED, BUT THERE IS LOW HUMIDITY ONLY. STEEL WOOL WILL RUST, SO IT SHOULD NOT BE USED IN AREAS OF HIGH MOISTURE. • COPPER MESH IS USED IN LOCATIONS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

CONSTRUCTION CHECKLIST:

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

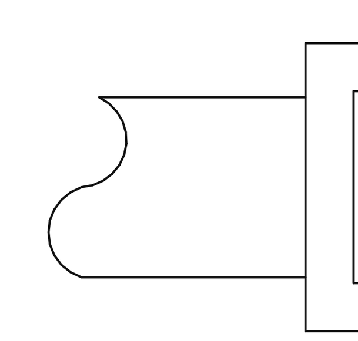
1. (PREFERRED BUT NOT REQUIRED) PEST PROVIDER IS BROUGHT IN DURING SITE SELECTION FOR PRELIMINARY EVALUATION. TACO BELL HAS 4 NATIONAL PROVIDERS OF PEST MANAGEMENT & PREVENTION.
2. AFTER DEMO, PMP ESTABLISHES A PLAN FOR EXCLUSION (SEALING OF BUILDING). IT IS IMPORTANT THIS STEP HAPPENS AFTER ALL OF THE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

*ADDITIONAL VISITS MAY BE REQUIRED PER PEST VENDOR RECOMMENDATION.

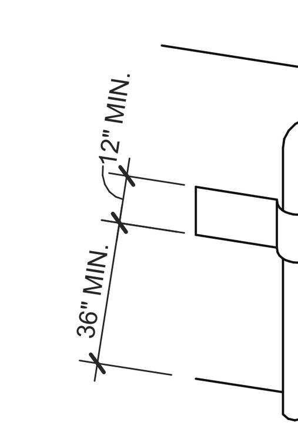


NOTE: DO NOT SEAL EXTERIOR WEEP HOLES @ BOTTOM OF WALLS OR WINDOWS.

CEILING/WALL/FLOOR



VENTS



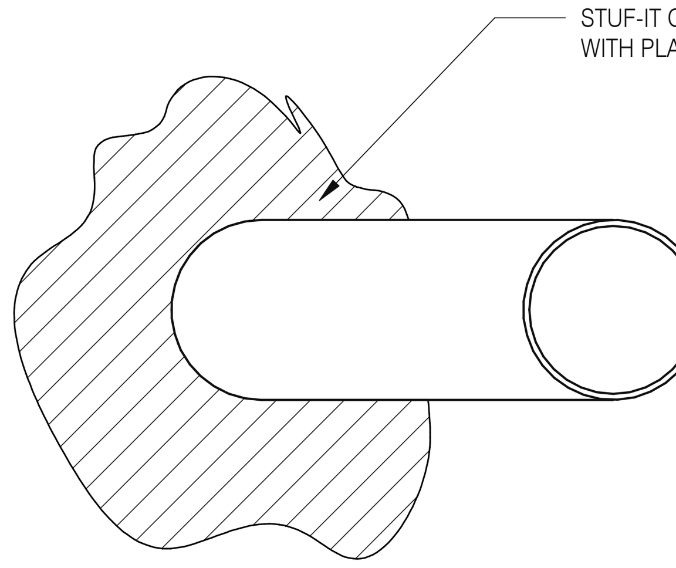
EXTERIOR PIPES

OTHER AREAS RAT PROOFING IS REQUIRED:

· TOILET GUARDS

· FLOOR TRAPS WITH LATCH GRATES

· MESH OVER SEWER ROOF VENTS



PIPE PENETRATIONS

RAT PROOFING DETAILS

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

TACO BELL

ENDEAVOR XS-6
PEST PREVENTION GUIDE

G3.0

PLOT DATE: 6/14/2021 7:38:11 AM

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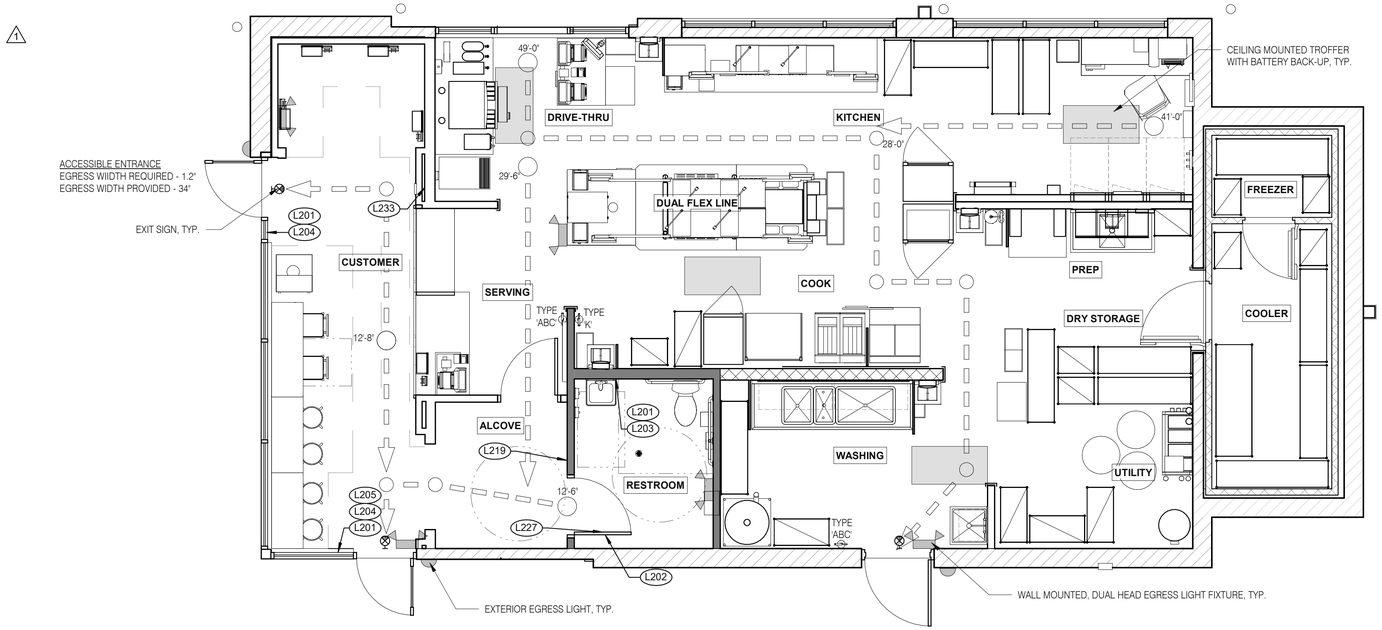

LIFE SAFETY AND SIGNAGE PLAN 1/4" = 1'-0" | **1**

TAG	SIGN DESCRIPTION	SIGN VERBIAGE	SIZE	MOUNTING HEIGHT	QTY	LOCATION IN RESTAURANT
L201	Smoking	No Smoking or electronic cigarette use. This is a smoke free establishment	1/16 x 9 x 6	60" A.F.F.	3	1 in each restroom, 1 at each door
L202	Clean Restroom	To our customers:We check our restrooms every 30 minutes to make sure they are always ready for you. If we have missed something, please tell our manager on duty. Thank you	1/16 x 6 x 9	60" A.F.F.	1	1 inside each restroom (back of restroom door)
L203	Hand Wash Notice	Employees must wash hands before returning to work	1/16 x 6 x 6	60" A.F.F.	1	1 inside each restroom near sink
L204	Exit (w/ Braille)	Exit	1/16 x 6 x 6	60" A.F.F.	2	1 at each customer exit, mounted on wall, according to ADA guidelines
L205	Occupancy	Maximum occupancy xxx persons	1/16 x 6 x 6	8' to center of sign	1	Above customer exit. Only 1 is needed
L219	Dual Gender Restroom (w/ Braille)	INFOGRAPHIC of male / female and braille to read: Restroom	1/4 x 10 x 6.5	60" A.F.F.	1	Mounted on wall next to restroom door. refer to plans and ADA guidelines for exact location
L227	Gender Neutral Restroom Circle (W/B)	INFOGRAPHIC of Gender Neurtal	1/4 x 12 x 12	60" A.F.F.	1	Mounted on door
L233	If you need assistance? ADA	Please ask if you need assistance. And ADA infographic	1/16 x 3 x 6	60" A.F.F.	1	At front counter

STANDARD REQUIRED SIGNAGE | **2**

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PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	DICKSON
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6

LIFE SAFETY AND SIGNAGE PLAN

G4.0

PLOT DATE: 6/14/2021 7:38:19 AM

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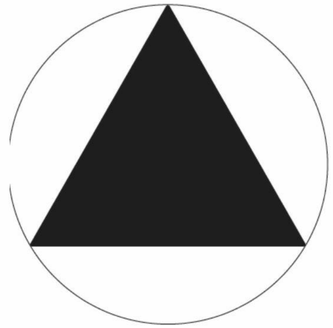
3 STREAM TRASH 1 - BIN LABELS (L220) | 13

RESTROOM BRAILLE SIGN (L219) | 9

EXIT BRAILE SIGN (L204) | 5

NO SMOKING SIGN (L201) | 1

3 STREAM TRASH 2 - LABELS (L221) | 14



RESTROOM SIGN (L227) | 10

OCCUPANCY SIGN (L205) | 6

CLEAN RESTROOM SIGN (L202) | 3

IF YOU NEED ASSISTANCE (L233) | 12

HAND WASH NOTICE SIGN (L203) | 4

GPD GROUP
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SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
SIGNAGE DETAILS

G4.1

PLOT DATE: 6/14/2021 7:38:22 AM

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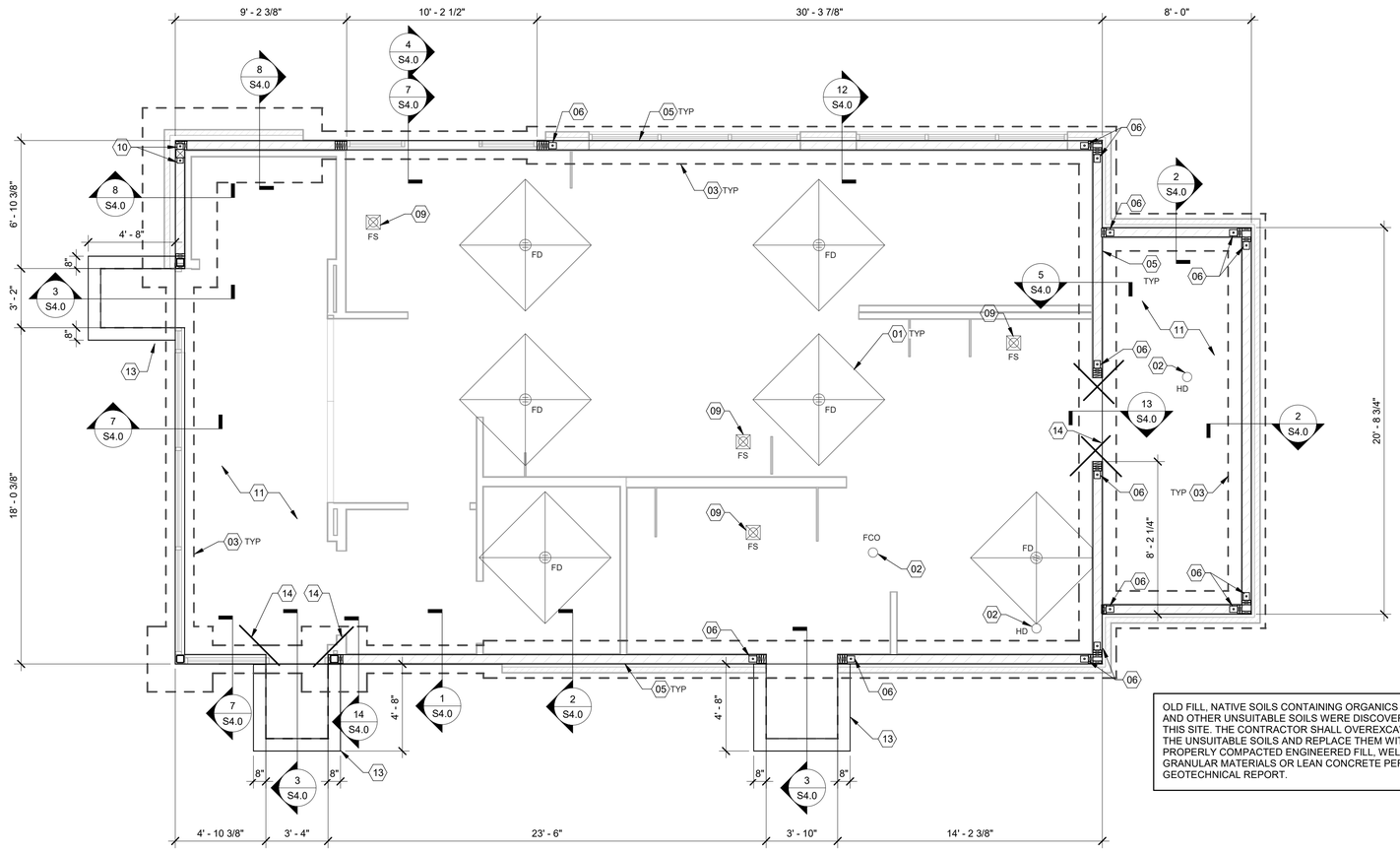

OLD FILL, NATIVE SOILS CONTAINING ORGANICS AND AND OTHER UNSUITABLE SOILS WERE DISCOVERED AT THIS SITE. THE CONTRACTOR SHALL OVEREXCAVATE THE UNSUITABLE SOILS AND REPLACE THEM WITH PROPERLY COMPACTED ENGINEERED FILL, WELL-GRADED GRANULAR MATERIALS OR LEAN CONCRETE PER THE GEOTECHNICAL REPORT.

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

DESIGN CRITERIA:

DESIGN CRITERIA:
2015 MICHIGAN BUILDING CODE (2015 IBC)

ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg): 20 PSF
EXPOSURE FACTOR (Ce): 1.0
IMPORTANCE FACTOR (I): 1.0
THERMAL FACTOR (Ct): 1.0

ROOF LOADS:
LIVE LOAD: 20 PSF
DEAD LOAD: 20 PSF

WIND LOADS:
3 SECOND GUST: 115 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY (MWFRS): C
INTERNAL PRESSURE COEFF.: ± 0.18

ANALYSIS BY SIMPLIFIED PROCEDURE

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

MAPPED SPECTRAL RESPONSE ACCEL:
Ss: 0.099g
S1 : 0.048g

SPECTRAL RESPONSE COEFF.:
SHORT PERIODS (SDS): 0.105g
1 SEC. PERIODS (SD1) 0.076g
SEISMIC DESIGN CATEGORY: B

WOOD SHEARWALLS
RESPONSE MOD FACTOR (R): 6.5
DESIGN BASE SHEAR (Cs): 0.0162*W

COMPONENT AND CLADDING WIND LOAD SCHEDULE

EFFECTIVE WIND AREA (SQ. FT.)	ROOF			WALL	
	CORNER ZONE (PSF)	END ZONE (PSF)	INTERIOR ZONE (PSF)	END ZONE (PSF)	INTERIOR ZONE (PSF)
≤10	+16.0/-72.8	+16.0/-48.3	+16.0/-28.8	+28.8/-38.6	+28.8/-31.2
20	+16.0/-60.3	+16.0/-43.2	+16.0/-28.1	+27.5/-36.0	+27.5/-29.9
50	+16.0/-43.7	+16.0/-36.5	+16.0/-27.1	+25.8/-32.6	+25.8/-28.2
100	+16.0/-31.2	+16.0/-31.2	+16.0/-26.4	+24.5/-29.9	+24.5/-26.9
≥500	+16.0/-31.2	+16.0/-31.2	+16.0/-26.4	+21.5/-24.0	+21.5/-24.0

DESIGN CRITERIA | E

FOUNDATION NOTES - TYP U.N.O.:

FOUNDATION
1. THE CONTRACTOR SHALL REFER TO THE THE GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT AND SPECIFICATIONS FOR ALL REQUIREMENTS RELATED TO EXCAVATION, PREPARATION OF THE SUBGRADE, COMPACTION PROCEDURES, AND FOR ANY OTHER GEOTECHNICAL REQUIREMENTS. WHERE CONFLICTING REQUIREMENTS BETWEEN THE DRAWINGS AND GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT ARE PRESENT, THE MOST STRINGENT REQUIREMENT SHALL BE BID UNLESS OTHERWISE ADDRESSED BY THE ENGINEER OF RECORD IN A FORMAL REQUEST FOR INFORMATION.

   THE RECOMMENDATIONS PRESENTED HEREIN ARE IN ACCORDANCE WITH THE SUBSURFACE INVESTIGATION REPORT PREPARED BY:
   PSI, INC., DATED FEBRUARY 18, 2021. PROJECT NUMBER 03811213

2. CONTRACTOR TO PROVIDE FOUNDATION & FOOTING AS REQUIRED FOR PYLON OR MONUMENTAL SIGN. SEE ELECTRICAL DRAWINGS FOR DETAIL.
3. COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF THE ON-SITE GEOTECHNICAL ENGINEER. FOUNDATION DESIGN IS BASED ON ***2,500 PSF*** ALLOWABLE BEARING CAPACITY.
4. CONTRACTOR SHALL TREAT SOIL BELOW SLAB FOR TERMITES.
5. REFER TO THE GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS OF EARTHWORK, OVER EXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER PERTINENT REQUIREMENTS AND INFORMATION.
6. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS AND GRADE BEAMS. LOWER FOOTINGS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.
7. 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, FROST, OR ICE.
10. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

CONCRETE:
CONCRETE SHALL BE HARD ROCK CONC. (5 SACK CEMENT PER CU.YD. MIN.) AND MEET THE FOLLOWING MIN. ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS:

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

A. CONCRETE MIX DESIGN AND TESTING SHALL MEET WITH THESE SPECS. CEMENT SHALL BE IN ACCORDANCE WITH ASTM C 150 TYPE II. VERIFY MIN. CONC. STRENGTH AND CEMENT TYPE.
B. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.
C. CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI-318-14 SECTION 5.11 AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY COMMITTEE 308.
D. ANCHOR BOLTS - SEE D/S2.0 FOR ANCHOR BOLT INFORMATION. ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONC.
E. TO RESIST FREEZE - THAW DETERIORATION W/C. RATIO SHALL NOT EXCEED .50 FOR CONCRETE IN CONTACT WITH SOILS.
F. TOTAL AIR CONTENT TO BE 6% ± 1%.

SLAB:
A. 4" THICK CONCRETE SLAB REINFORCED WITH WWF 6x6-W2.9xW2.9 OVER 10 MIL VISQUEEN MEMBRANE, OVER 4" AGGREGATE BASE, OVER ENGINEERED SUBGRADE.

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 PLUMBING DWGS. FOR PLUMBING LAYOUT DIMENSIONS, U.O.N.
E. SEE ELECTRICAL DWGS. FOR ELECTRICAL LAYOUT DIMENSIONS, U.O.N.
F. COORD. FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO POURING SLAB.

FOUNDATION NOTES | D

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS:

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

REQUIRED SPECIAL INSPECTIONS:

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

1. SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION (COMPACTING FILL, SPECIAL GRADING)
2. STRUCTURAL CONCRETE OVER 2,500 PSI
3. STRUCTURAL STEEL
4. WELDING

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

SPECIAL INSPECTIONS | C

FOUNDATION KEYNOTES

(01) SLAB SHALL BE PITCHED 1/2" FOR 5'-0" x 5'-0" SQUARE AT ALL FLOOR DRAINS U.O.N. REFER TO PLUMBING DRAWINGS FOR LOCATIONS.
(02) PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS).
(03) INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0.
(04) NOT USED.
(05) ANCHOR BOLTS LOCATED THROUGHOUT PERIMETER OF BUILDING SHALL BE PROVIDED AS REQUIRED PER THE "PLATE/ANCHOR BOLT" COLUMN OF THE "WALL SHEATHING AND SHEARWALL SCHEDULE." SEE D/S2.0.
(06) HDU5 HOLDOWN ANCHOR. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.
(07) NOT USED
(08) NOT USED
(09) FLOOR SINK REFER TO PLUMBING DRAWINGS FOR LOCATION.
(10) HDU14-SDS2.5 HOLDOWN ANCHOR. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.
(11) 4" CONCRETE SLAB- SEE FOUNDATION PLAN NOTES D/S1.0. MODIFY BASE MATERIAL AS REQUIRED BY GEOTECHNICAL ENGINEER. PROVIDE BOND BREAKER BETWEEN SLAB AND BUILDING FOUNDATIONS.
(12) NOT USED.
(13) FROST SLAB - SEE CIVIL PLANS FOR EXTENT.
(14) (2) #4x3'-0" LG. RE-ENTRANT BARS (CENTERED IN SLAB) AT ALL RE-ENTRANT CORNERS.

FOUNDATION KEYNOTES | B

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: MN
JOB NO.: 2019088.10

TACO BELL
1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
FOUNDATION PLAN

S1.0

PLOT DATE: 6/14/2021 8:06:06 AM

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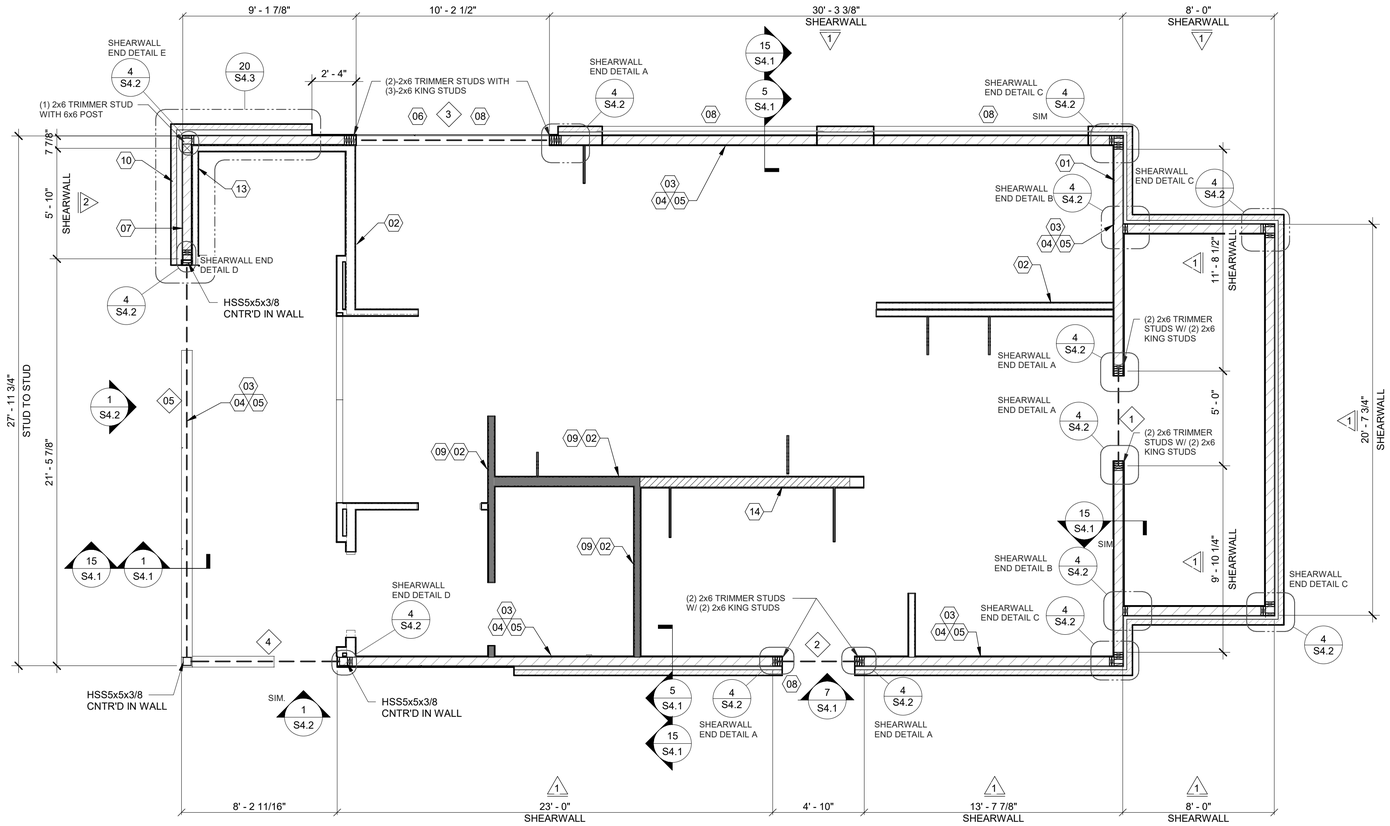

N

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

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JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6

WALL FRAMING PLAN

S2.0

PLOT DATE: 6/14/2021 8:06:06 AM

HEADER SCHEDULE

MARK	BUILT-UP SECTION	HOT ROLLED STEEL
1	(3) 2x8	--
2	(3) 2x10	--
3	(3) 2x14	--
4	--	HSS7x5x1/4 LSV
5	--	HSS20x4x3/8 LSV

NOTES:
1. BUILT-UP HEADER SECTION SHALL HAVE 1/2" PLYWOOD SANDWICHED PIECES. REF. 14/S4.1
2. HSS STEEL TUBES SHALL MEET THE FOLLOW STANDARD: ASTM A500 GRADE B (Fy = 46 KSI)

HEADER SCHEDULE | E

WALL SHEATHING AND SHEARWALL SCHEDULE

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

*** REQUIREMENTS FOR EXTERIOR NON-SHEARWALL WALLS

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

WALL SHEATHING AND SHEARWALL SCHEDULE | D

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

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

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

WALL FRAMING NOTES | C

WALL FRAMING KEYNOTES

01 COORDINATE WITH ELECTRICAL POWER PLAN SHEET E3.0.
02 INTERIOR NON-BEARING STUD WALL FRAMING; REFER TO SHEET A1.0 FOR DIMENSIONS AND STUD SIZES. SEE DETAIL 10 & 11/S4.1 AND WALL FRAMING NOTES.
03 (2) 2x6 TOP PLATES - SPLICE PER 16/S4.1. U.O.N. REF. 1/S4.3 FOR PARAPET CAP DETAIL.
04 TOP OF TRUSS BEARING PLATE. SEE DETAIL 2/S4.1.
05 TOP OF PARAPET. SEE S3.0.
06 ENSURE ROUGH OPENING DIMENSION TO PROVIDE TOLERANCE FOR DRIVE THRU WINDOW INSTALLATION. COORDINATE WITH WINDOW MANUFACTURER.
07 EXTERIOR SHEATHING SHALL NOT BE INTERRUPTED WITH TOWER FRAMING - TYPICAL.
08 SEE LOOSE LINTEL SCHEDULE ON S4.3 FOR BRICK SUPPORT ACROSS OPENING.
09 COORDINATE WITH PLUMBING ROUGH IN SHEET P4.0.
10 NOT USED.
11 NOT USED.
12 NOT USED.
13 2x4 FRAMING FOR ALCOVE. SEE ARCHITECTURAL.
14 COLD-FORMED STUD WALL (NON-LOAD BEARING STUD WALL). SEE ARCH.

WALL FRAMING KEYNOTES | B

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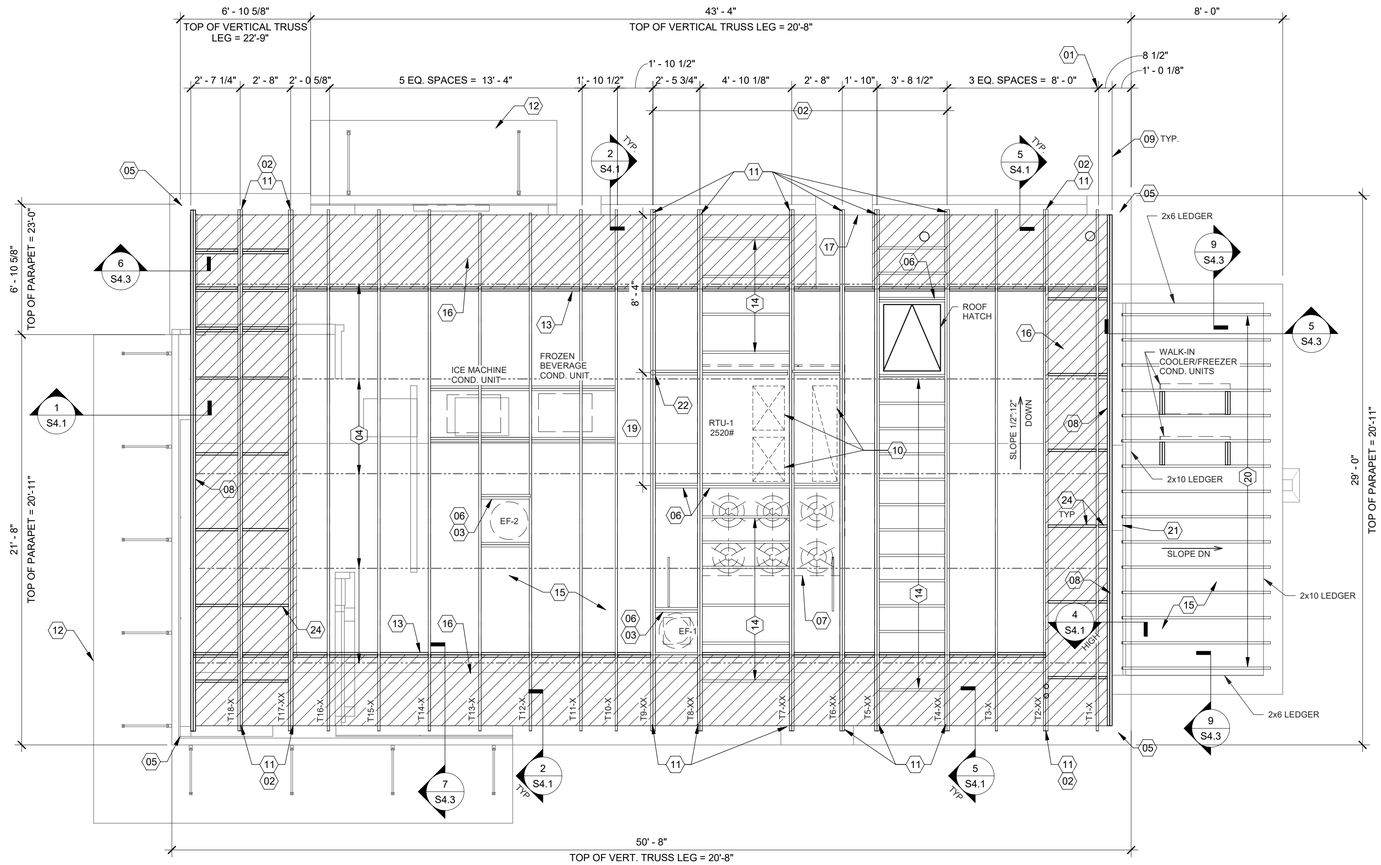
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



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

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

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

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

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

ROOF NAILING SCHEDULE D

ROOF FRAMING NOTES:

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

MANUFACTURED ROOF TRUSS NOTES:

A. MFR'D ROOF TRUSSES ARE AT 2'-8" O.C. U.O.N.
B. "T-#" DENOTES ROOF TRUSS TYPE. REFER TO SCHEDULE 7/S4.2.
C. TRUSS DWGS ARE PROVIDED FOR CONCEPTUAL DESIGN ONLY. MFR. SHALL SUBMIT SHOP DWGS. AND CALCS, BOTH SIGNED BY A LICENSED STRUCTURAL ENGINEER (STATE OF OHIO). 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 SHALL BE 2x6 MIN AND PARAPET VERTICALS SHALL BE 2X8 AND CONSISTENTLY SIZED THROUGHOUT PROJECT.
F. REFER TO TRUSS ELEVATIONS FOR SHAPE, OVERHANG, SLOPES, SPAN, ETC. LOCATION OF BEARING POINTS ARE AS INDICATED ON THE DRAWINGS. SEE 2/S4.2.
G. MFR'D ROOF TRUSS DESIGN LOADS: SEE TRUSS DESIGN CRITERIA 3/S4.2.
H. THE POSITIONS, WEIGHTS, AND METHODS OF ATTACHMENT OF ALL MECHANICAL UNITS, ELECT FIXTURES, PLUMBING, ETC. SHALL BE INCLUDED IN THE DESIGN OF THE TRUSSES BY THE TRUSS MFR.
I. DESIGN ROOF TRUSSES TO SUPPORT ALL IMPOSED LOADS, INCLUDING WIND & LATERAL LOADS. COORDINATE SIZE, LOCATION AND WEIGHT OF EQUIPMENT WITH MECHANICAL WORK. PROVIDE MULTIPLE TRUSSES WHERE ONE TRUSS CANNOT SUPPORT THE LOAD. PROVIDE BRIDGING BETWEEN TRUSSES AS SPECIFIED AS MINIMUM STANDARD.
J. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK. CARE SHALL BE USED IN LIFTING TO PREVENT HORIZONTAL BENDING.
K. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE SPECS SHALL MEAN REMOVAL OF THE TRUSSES FROM THE JOBSITE AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
L. SEE DIV. 6 OF THE SPECS FOR DETAILS ON TRUSS MANUFACTURING AND NAILING.

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

- AWNING & CANOPY
- MANUFACTURED WOOD ROOF TRUSSES

ROOF FRAMING NOTES C

01 STARTING POINT OF TRUSS LAYOUT.
02 VERIFY NECESSITY OF DOUBLE TRUSSES WITH TRUSS MFR. DUE TO POINT LOADING AND ADDITIONAL UNIFORM LOADING, TYPICAL.
03 COORDINATE BLOCKING WITH EXHAUST AND SUPPLY DUCT.
04 CONT 2x4 WD BRIDGING ON TOP OF BOTTOM CHORD. ADJUST AS REQUIRED FOR DUCT PLENUMS, MAX SPACING AT 7'-0" O.C. OR TIGHTER SPACING AS REQUIRED BY TRUSS DESIGN. SEE 8 & 9/S4.1 FOR BRIDGING LAP DETAIL.
05 SIMPSON MSTA 24 AT CORNER DBL TOP PLATE. CENTER STRAP ON CORNER.
06 (2) 2x6 BLOCKING W/ U26-2 HANGERS. TYP. AT EDGES OF ALL ROOF TOP EQUIPMENT AND ALL ROOF OPENINGS - SEE DET. 6 & 10/S4.2.
07 LOC. OF HOOD. SEE HOOD DRAWINGS FOR HOOD ATTACHMENT DETAIL 13/S4.1.
08 (2) 2x6 LEDGER REF. 6/S4.1.
09 DIMENSION IS FROM INSIDE FACE OF WALL FRAMING.
10 HVAC ROOF OPENING FOR DUCT. VERIFY SIZE WITH HVAC MFR. & MECHANICAL DWGS.
11 (2) 2x6 BUILT-UP COLUMN AT TRUSS BEARING, TYP. AT GIRDER. TRUSS ONLY. REF. DETAIL 12/S4.2.
12 CANOPY- SEE ARCH. DWGS.
13 (2) 2x6 BLOCKING BENEATH KICKERS W/ LUS26-2 HANGERS EACH END.
14 2x6 @ 16" O.C. WITH SIMPSON LUS26 HANGER EA. END.
15 PLYWOOD ROOF SHEATHING. SEE NAILING SCHEDULE, THIS SHEET.
16 HATCH DENOTES LOCATION OF KICKERS. SEE 6/S4.3 FOR ADDITIONAL INFORMATION REGARDING KICKERS.
17 DO NOT PROVIDE KICKERS AT SCUPPER LOCATION. PROVIDE DBL 2x6 KICKER EACH SIDE OF SCUPPER.
18 NOT USED.
19 SEE MECHANICAL DRAWINGS FOR SIZE OF SELECTED RTU OPTION.
20 2x10 @ 16" O.C. WITH SIMPSON LUS26 HANGER EA. END. PROVIDE CONT. BLOCKING BETWEEN 2x's AT MIDSPAN.
21 PORTION OF PARAPET IS ABOVE ROOF OF WALK-IN COOLER. SEE ELEVATION FOR DETAILS.
22 RTU LOCATION POINT.
23 NOT USED.
24 2x BLOCKING AT BRACES. SEE 1 & 4/S4.1

ROOF FRAMING KEYNOTES B

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	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: MN
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
ROOF FRAMING PLAN

S3.0

PLOT DATE: 6/14/2021 8:06:08 AM

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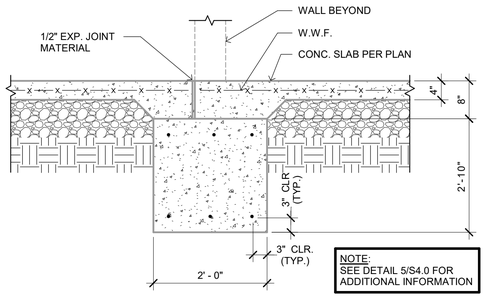
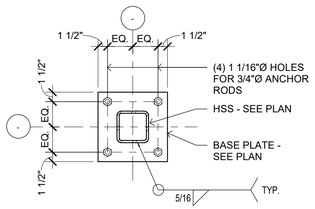
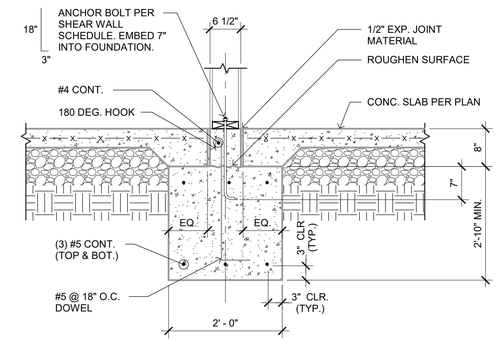


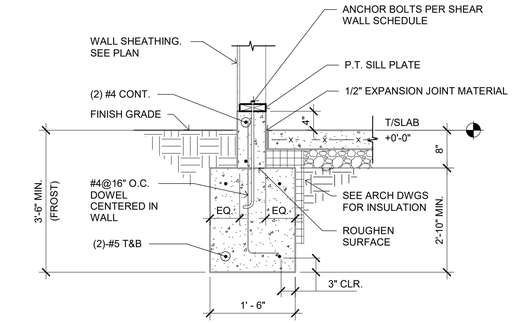
FOOTING AT COOLER/FREEZER DOOR 3/4" = 1'-0" | 13



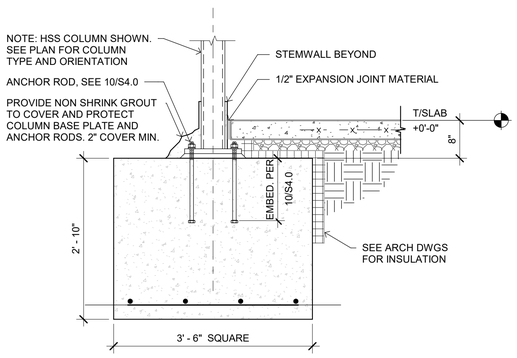
BASE PLATE DETAIL 1" = 1'-0" | 9



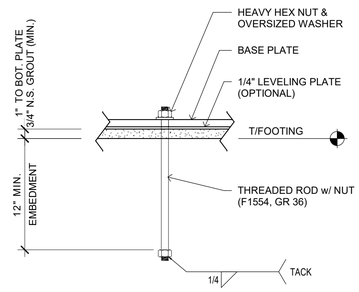
INTERIOR FOOTING AT COOLER 3/4" = 1'-0" | 5



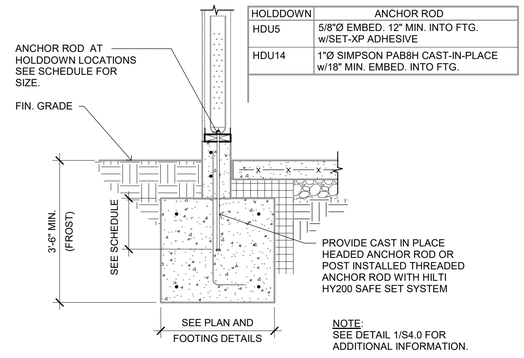
FOOTING AT SIDE AND REAR WALLS 3/4" = 1'-0" | 1



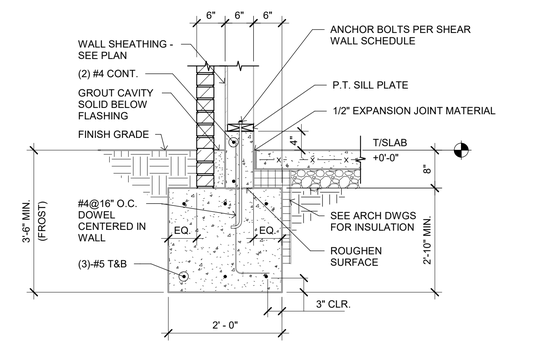
SECTION 3/4" = 1'-0" | 14



TYP. ANCHOR ROD DETAIL 1 1/2" = 1'-0" | 10

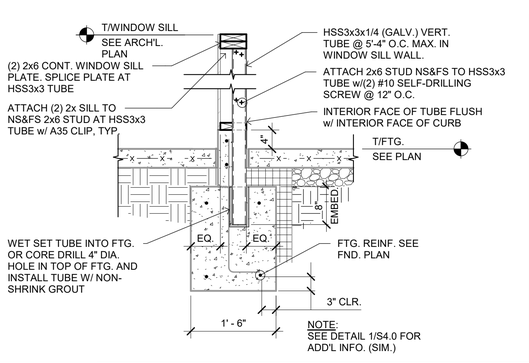


HOLDDOWN DETAIL 3/4" = 1'-0" | 6

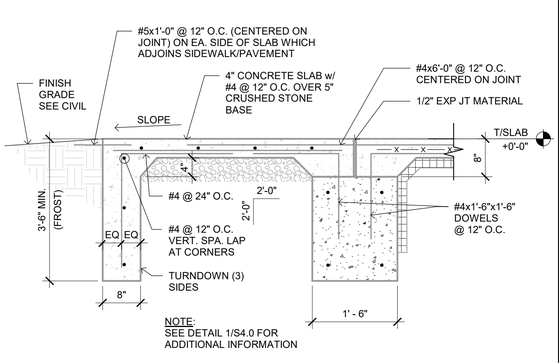


FOOTING AT SIDE AND REAR WALLS W/ BRICK 3/4" = 1'-0" | 2

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

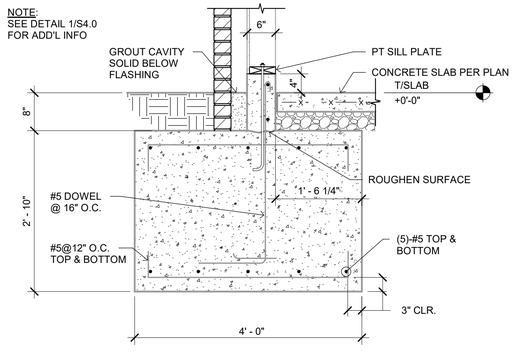


WINDOW SILL BRACING DETAIL 3/4" = 1'-0" | 7

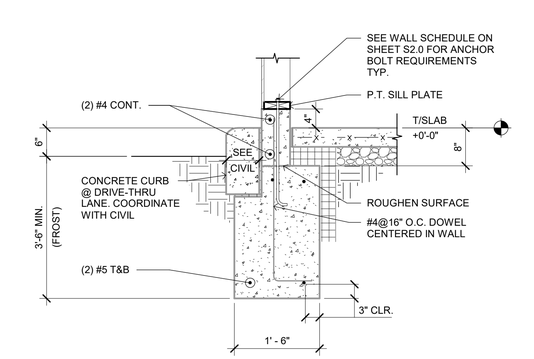


FOOTING AT FULL HEIGHT OPENING 3/4" = 1'-0" | 3

FOOTING AT DRIVE THRU 3/4" = 1'-0" | 12



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



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

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	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	MN
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
STRUCTURAL DETAILS

S4.0

PLOT DATE: 6/14/2021 8:06:10 AM

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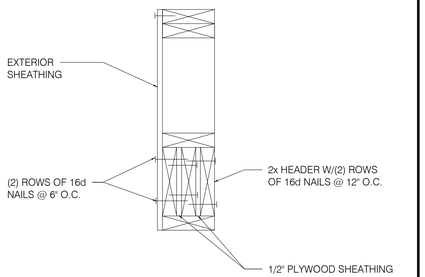
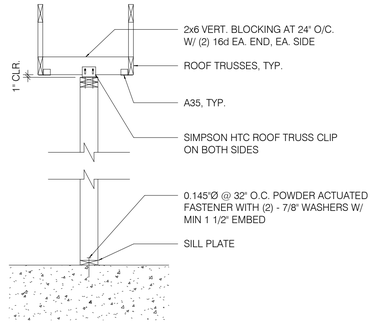
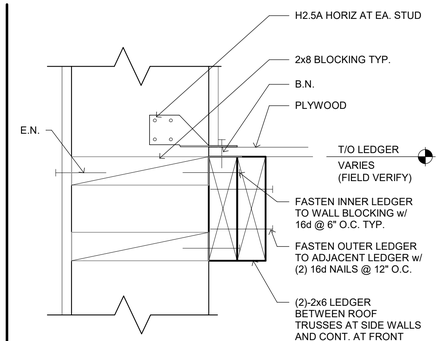


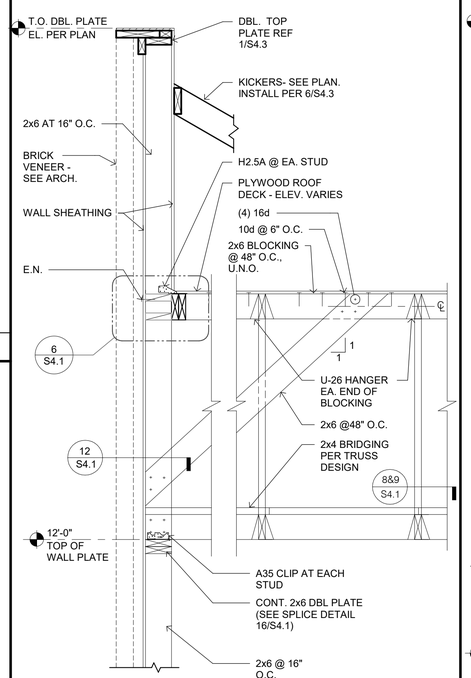
TYP. MULTIPLE HEADER 1-1/2" = 1'-0" | 14



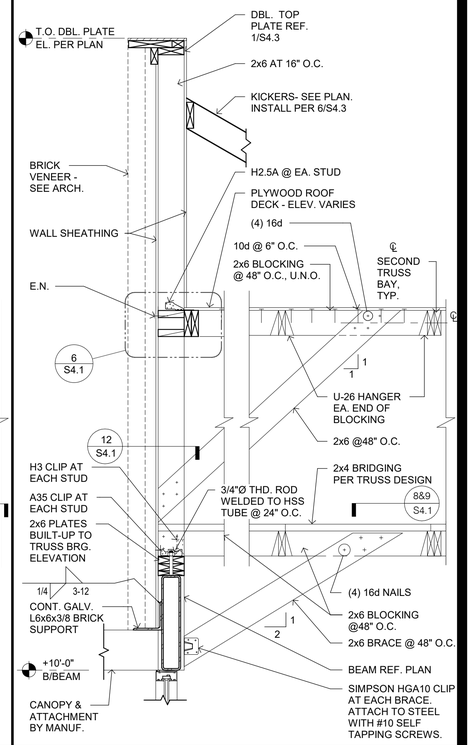
SUPPORT - PARALLEL TO TRUSS 1/2" = 1'-0" | 10



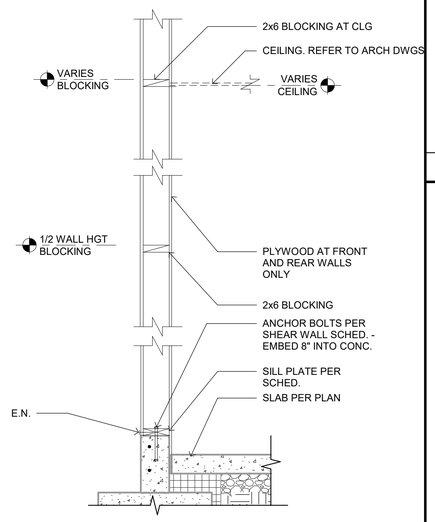
LEDGER DETAIL 3" = 1'-0" | 6



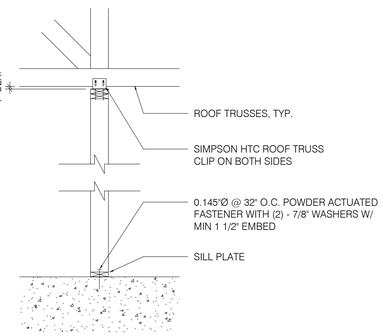
REAR WALL SECTION N.T.S. | 4



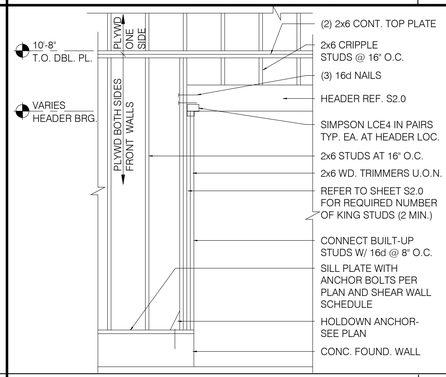
FRONT WALL SECTION N.T.S. | 1



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



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



FRAMING ELEVATION AT OPENING N.T.S. | 7

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

SIDE WALL AT TRUSS N.T.S. | 2

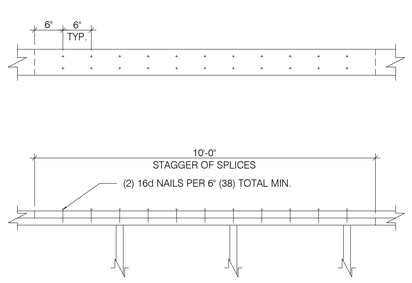
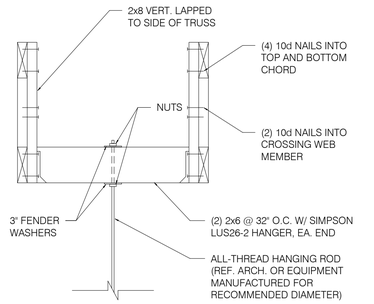
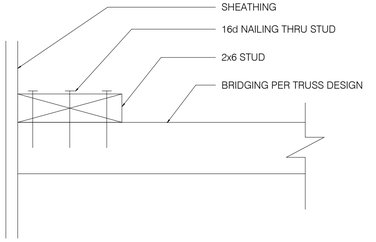


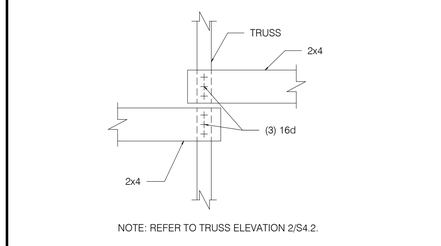
PLATE LAP DETAIL 1" = 1'-0" | 16



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

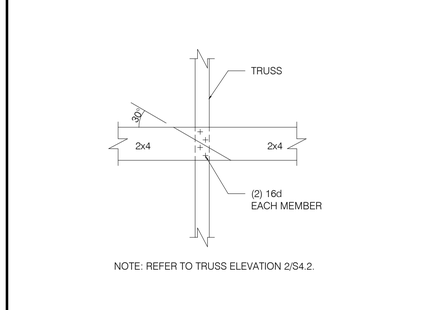


BRIDGING DETAIL 3" = 1'-0" | 12



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

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



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

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

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	DATE	REMARKS
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CONTRACT DATE:	12.1.20
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PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
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DRAWN BY.:	MN
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6

STRUCTURAL DETAILS

S4.1

PLOT DATE: 6/14/2021 8:06:11 AM

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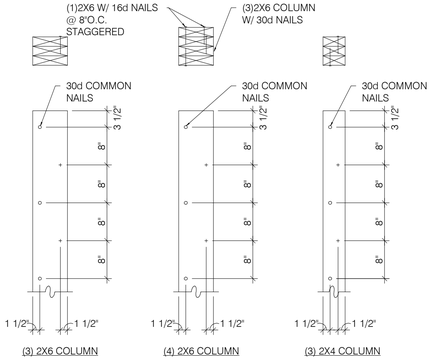
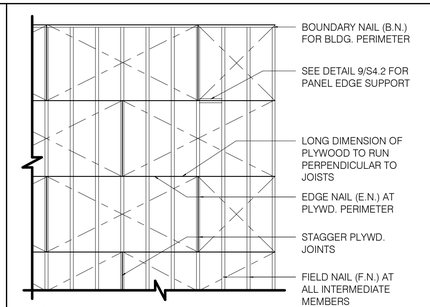
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

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

NAILING SCHEDULE N.T.S. 11

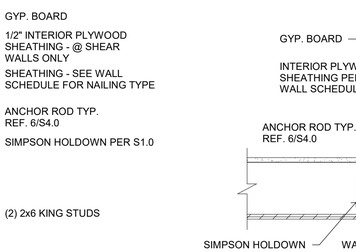


BUILT-UP 2X COLUMNS 1" = 1'-0" 12

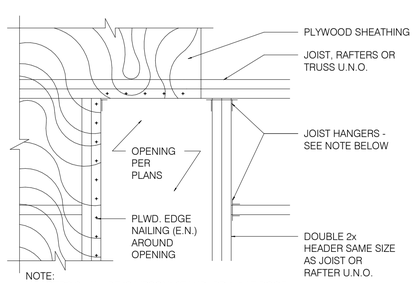


NOTES:
1. MIN. PLYWD. SHT. SIZE SHALL BE 2'-0" X 4'-0".
2. MIN. 3/8" NAILING EDGE DISTANCE.
3. EDGE NAIL (E.N.) O/ BEAMS AND AROUND ALL OPENINGS.

ROOF NAILING PLAN N.T.S. 8



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



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

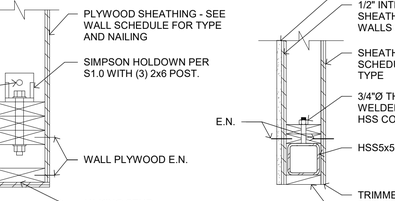
TYPICAL ROOF OPENING 1" = 1'-0" 10

(COORD. EQUIPMENT WEIGHTS WITH MECHANICAL)

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

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

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



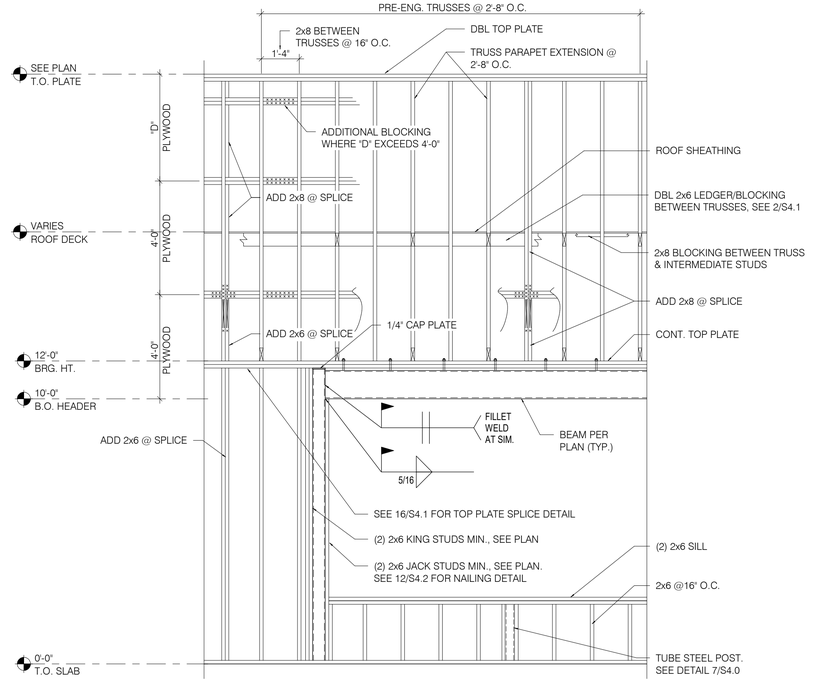
ROOF OPENING DETAIL 1" = 1'-0" 6

TRUSS TYPES	SINGLE TRUSS DESIGNATION	DOUBLE TRUSS DESIGNATION	BEARING POINT	COMMENTS
T1 - T18	X	XX	△	SEE NOTE 1.

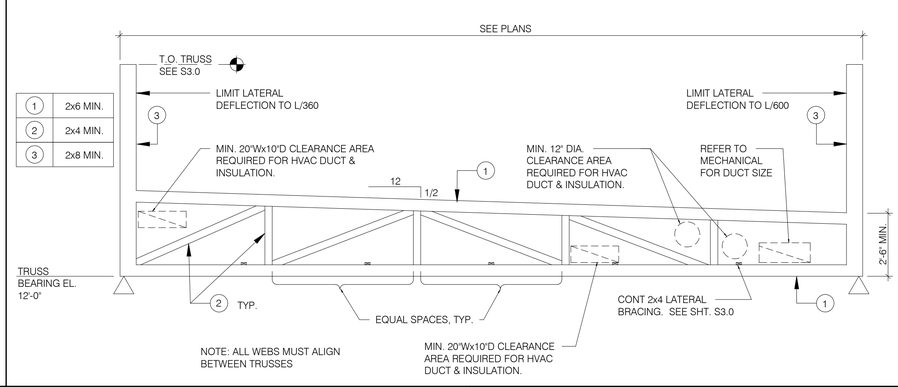
NOTES:

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

TRUSS SCHEDULE 1" = 1'-0" 7



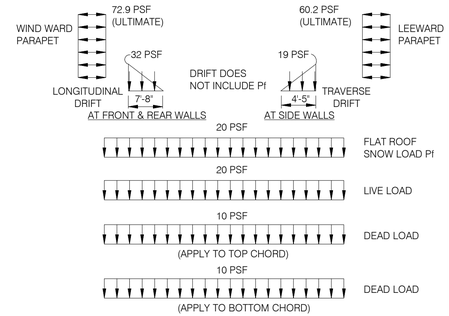
WALL FRAMING DETAIL 1" = 1'-0" 1



TRUSS ELEVATION 1" = 1'-0" 2

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

HOLDOWN DETAILS 1" = 1'-0" 4



NOTE:
APPLY ROOF TOP AND SUSPENDED POINT LOADS. WEIGHT AND LOCATION OF UNITS AS SHOWN ON THIS SHEET ARE NOT INCLUDED IN THE ABOVE LOADING DIAGRAM. VERIFY THESE LOADS WITH MECHANICAL SUPPLIER BEFORE DESIGNING TRUSS. DESIGN TRUSSES BENEATH KICKERS FOR AN ADDITIONAL 275 PLF

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

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	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	MN
JOB NO.:	2019088.10

TACO BELL

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LINCOLN PARK, MI 48146

ENDEAVOR XS-6
STRUCTURAL DETAILS

S4.2

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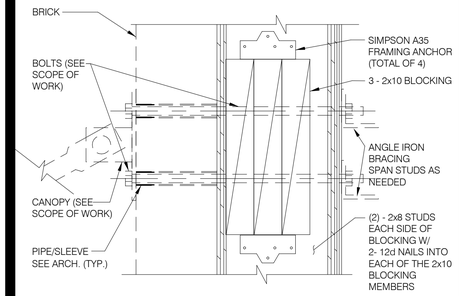
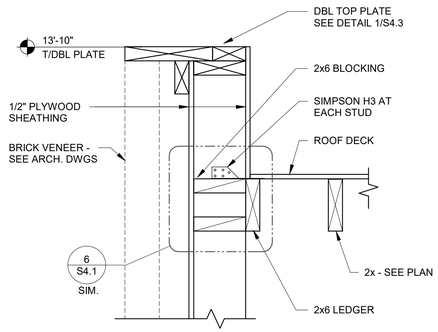
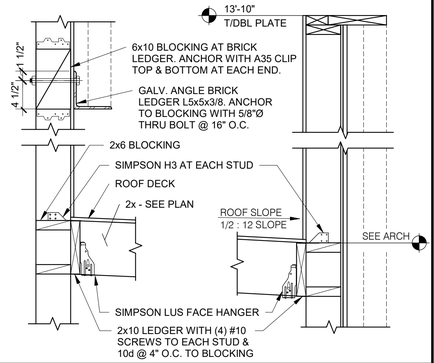


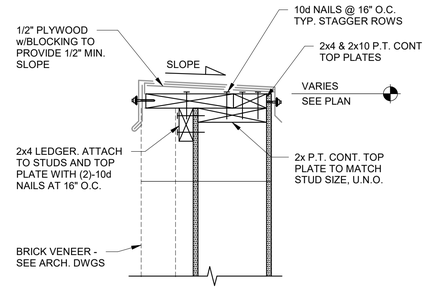
TIE-ROD BLOCKING 1" = 1'-0" | 13



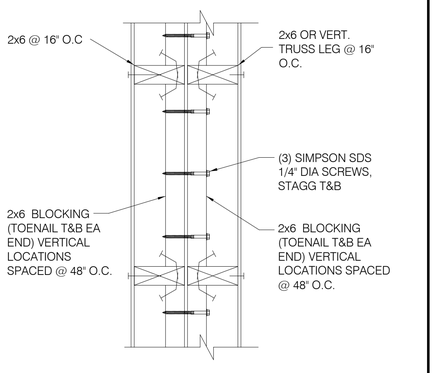
SECTION AT COOLER SIDES 1 1/2" = 1'-0" | 9



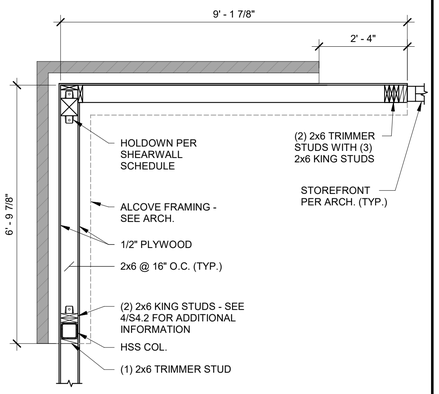
SECTION AT COOLER REAR 1" = 1'-0" | 5



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

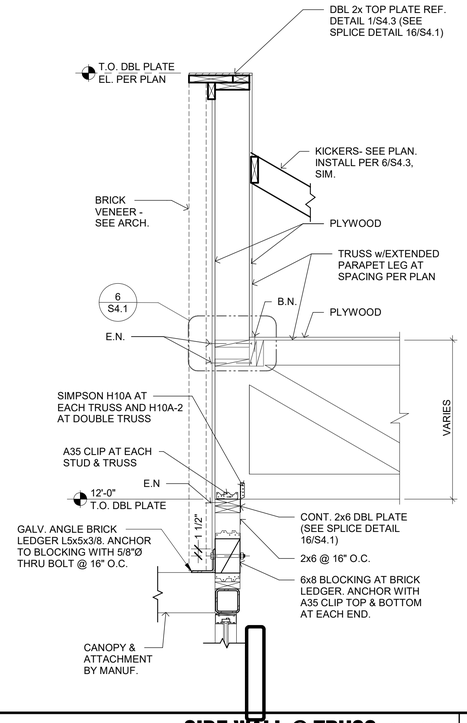


WALL DETAIL (PLAN VIEW) | 14

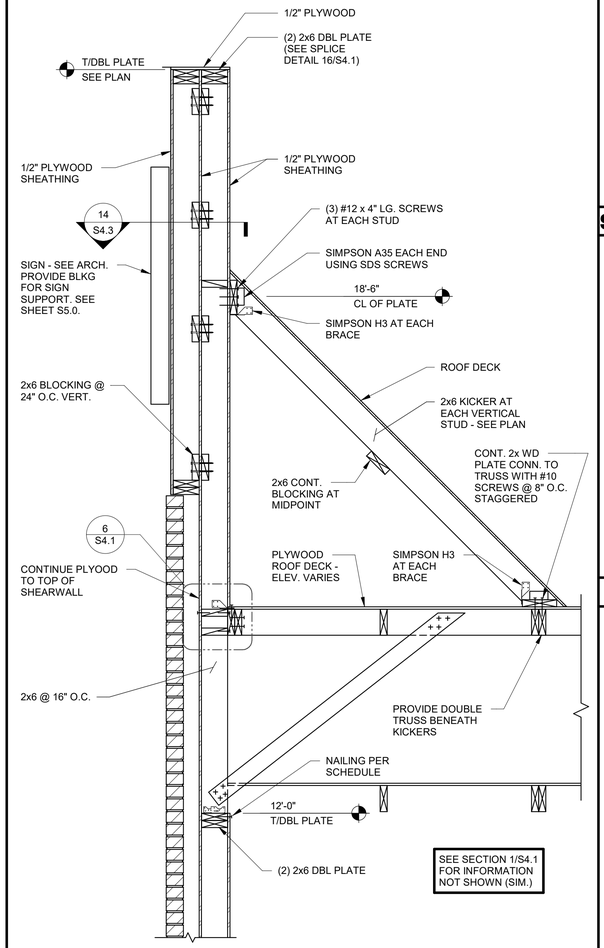


PLAN VIEW

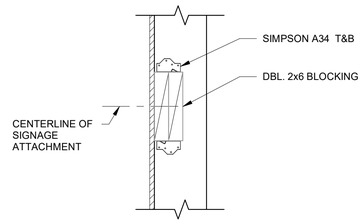
FRONT TOWER FRAMING 1/2" = 1'-0" | 20



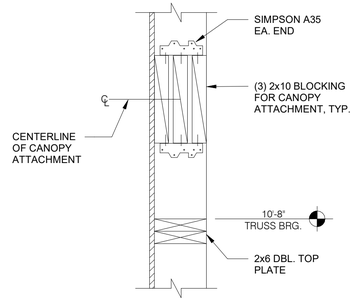
SIDE WALL @ TRUSS 3/4" = 1'-0" | 7



FRONT TOWER SECTION 3/4" = 1'-0" | 6



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



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

LOOSE LINTEL SCHEDULE	
CLEAR SPAN	EXTERIOR VENEER
0 TO 2'-8"	L3 1/2x3 1/2x5/16
2'-9" TO 4'-0"	L3 1/2x3 1/2x5/16
4'-1" TO 5'-6"	L4x3 1/2x5/16 LLV
5'-7" TO 7'-6"	L5x3 1/2x5/16 LLV
7'-7" TO 9'-6"	L5x3 1/2x3/8 LLV
9'-7" TO 12'-0"	L6x3 1/2x3/8 LLV

NOTES:
1. PROVIDE MINIMUM 3/8" THICKNESS FOR EXTERIOR ANGLES.
2. PROVIDE A MINIMUM BEARING LENGTH OF 8" ON 1'-4" MIN. HEIGHT OF GROUTED SOLID MASONRY.
3. GALVANIZE ALL LINTELS THAT ARE EXPOSED TO WEATHER.

LOOSE LINTEL SCHEDULE | 4

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PA/PM:	JW
DRAWN BY.:	MN
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
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ENDEAVOR XS-6
STRUCTURAL DETAILS

S4.3

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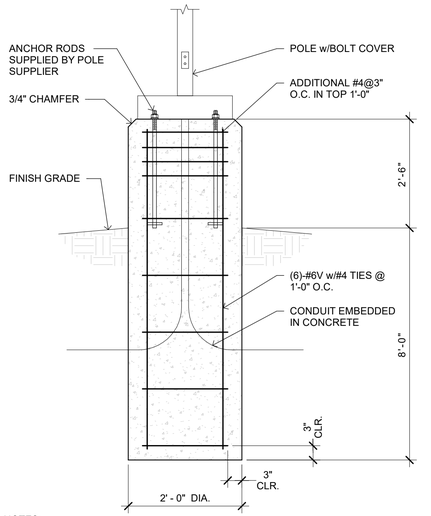
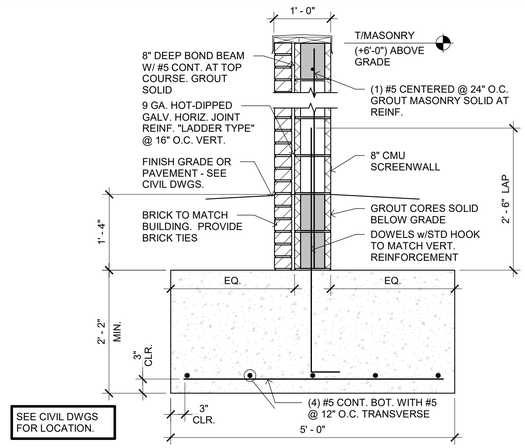
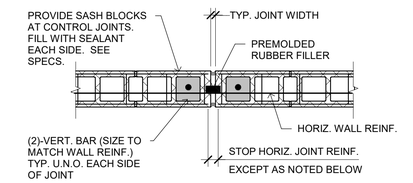


NOTES:
1. REINFORCED CONCRETE, 4000 PSI COMPRESSIVE STRENGTH WITH 6% ±1% AIR ENTRAINMENT
2. RUB CONCRETE TO REMOVE SONOTUBE FORM LINES AND FILL ALL HOLES FOR SMOOTH FINISH. WEATHERSEAL ALL EXPOSED CONCRETE.
3. VERIFY ANCHOR ROD LAYOUT AND EMBEDMENT REQUIREMENTS WITH POLE SUPPLIER.

TYP. SITE LIGHTING FIXTURE BASE DETAIL 3/4" = 1'-0" | 1



TYP. MASONRY SCREENWALL DETAIL 3/4" = 1'-0" | 2



NOTES:
1. REFER TO ELEVATIONS FOR JOINT LOCATIONS.
2. DO NOT LOCATE JOINT WITHIN REINFORCED ELEMENTS SUCH AS COLUMNS, LINTELS, PIERS, PILASTERS OR OPENING JAMBS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
3. MAX. SPACING OF JOINTS: PANEL LENGTH/HEIGHT = 1.5 MAX., 20'-0" MAX.
4. HORIZONTAL BOND BEAM WALL REINFORCING CONTINUES THROUGH JOINT.

TYP. MASONRY CONTROL JOINT DETAIL 3/4" = 1'-0" | 3

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ENDEAVOR XS-6

STRUCTURAL SECTIONS

S4.4

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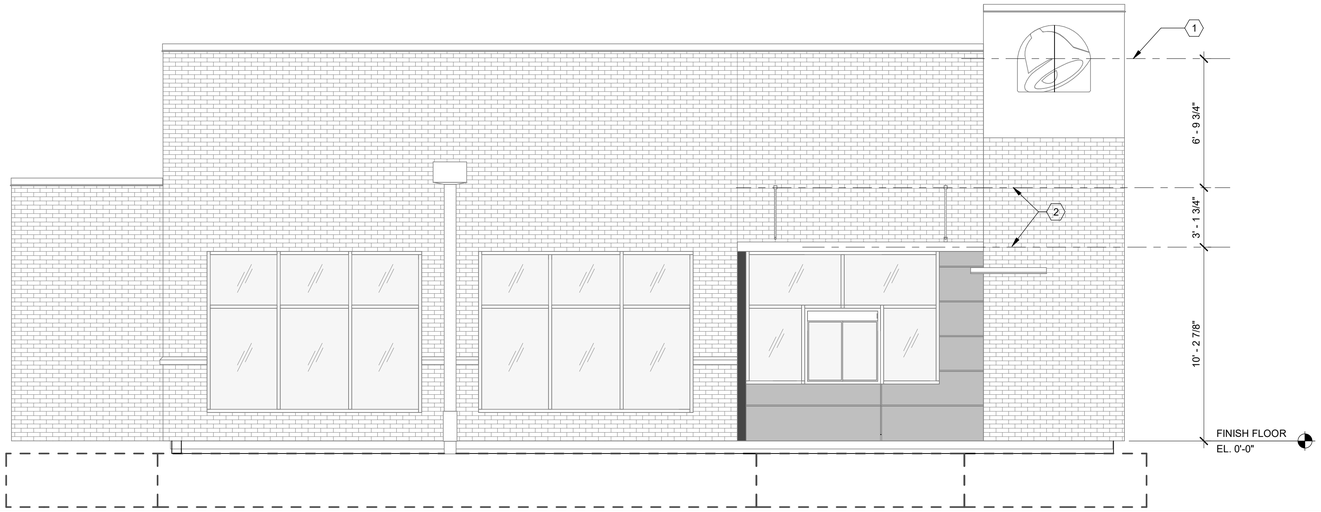
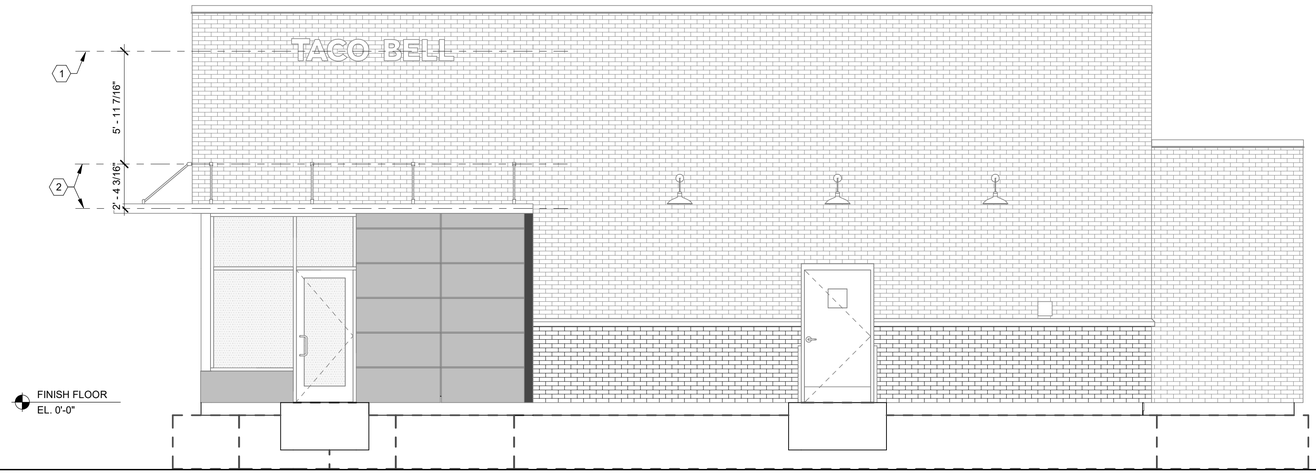
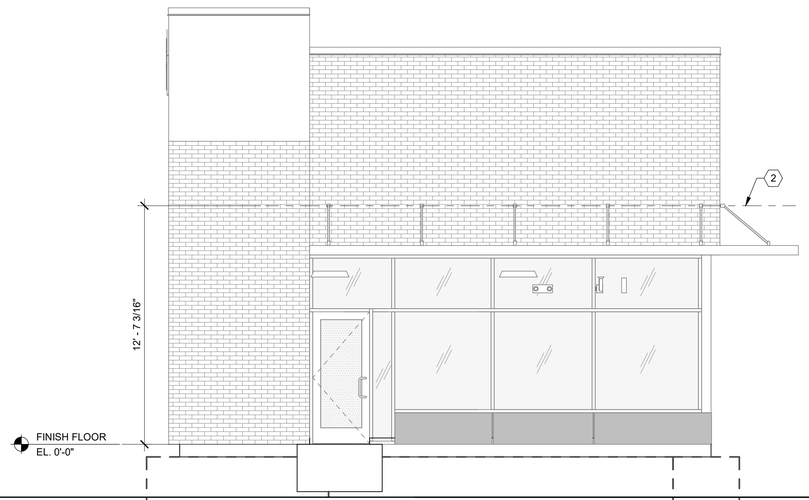


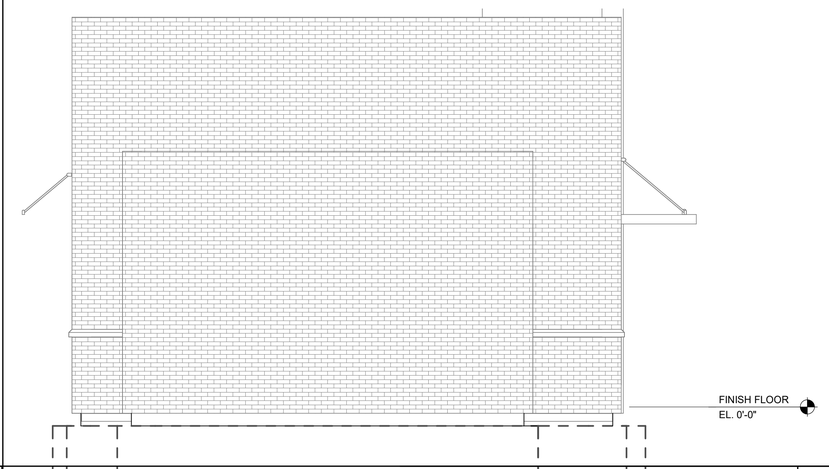
WEST ELEVATION 1/4" = 1'-0" | **A**



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



SOUTH ELEVATION 1/4" = 1'-0" | **F**



NORTH ELEVATION 1/4" = 1'-0" | **E**

COORDINATE BLOCKING REQUIREMENTS WITH MANUFACTURER

1. SOLID BLOCKING FOR FASTENERS AS REQUIRED FOR SIGN MOUNTING.
2. PROVIDE BLOCKING FOR CANOPY. SEE DETAILS 3/S4.3 AND 13/S4.3.

KEY NOTES | **C**

A. EXTEND BLOCKING AS REQUIRED TO FIT BETWEEN STUDS.

B. ELEVATION AT BOTTOM OF CANOPIES SHALL BE 10'-0" A.F.F. U.N.O.

C. COORDINATE SIGNAGE ELEMENTS AND BLOCKING REQUIREMENTS WITH SIGNAGE VENDOR - SEE SCOPE OF WORK.

D. THIS SHEET IS TO INDICATE BLOCKING REQUIREMENTS FOR SIGNS, AWNINGS, AND CANOPIES. ADDITIONAL BLOCKING IS REQUIRED FOR OTHER ITEMS AS SHOWN ON OTHER DRAWINGS.

GENERAL NOTES | **D**

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ENDEAVOR XS-6

CANOPY/AWNING BLOCKING ELEVATIONS

S5.0

PLOT DATE: 6/14/2021 8:06:17 AM

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WAYNE COUNTY DPS GENERAL NOTES

1. ALL WORK WITHIN THE WAYNE COUNTY ROAD RIGHT-OF WAY (ROW) AND DRAIN EASEMENT SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD AND GENERAL SPECIFICATIONS, INCLUDING SOIL EROSION AND SEDIMENT CONTROL OF THE WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES, AND MDOT 2012 SPECIFICATIONS FOR CONSTRUCTION.
2. THESE PLANS ARE NOT VALID WITHOUT ATTACHMENT OF THE WAYNE COUNTY PERMIT SPECIFICATIONS FOR CONSTRUCTION WITHIN THE ROAD ROW, PARKS, DRAIN EASEMENT OR SANITARY SEWER UNDER JURISDICTION OF THE WAYNE COUNTY (07/01/93) REVISED 12/15/2004
3. CONTRACTOR SHALL CONTACT MISS DIG AT 811 TO IDENTIFY AND FLAG / MARK THE LOCATIONS OF ALL UNDERGROUND UTILITIES AT THE PROPOSED CONSTRUCTION AREAS PRIOR TO START OF CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES, AND RESOLVE ANY CONFLICT BETWEEN THE PROPOSED WORK AND THE EXISTING UNDERGROUND OR ABOVEGROUND UTILITIES.
4. CONTRACTOR SHALL MAINTAIN 18" MINIMUM VERTICAL CLEARANCE AND 3 FEET MINIMUM HORIZONTAL CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES. ANY PROPOSED UTILITY PERMITTED TO CROSS UNDER THE ROAD OR DRAIN, MUST BE PLACED A MINIMUM OF 7 FEET BELOW THE LOWEST POINT OF THE ROAD, OR 6 FEET BELOW THE DRAIN BOTTOM, OVERHEAD WIRES/CABLES MUST BE INSTALLED 18 FEET MINIMUM ABOVE THE ROAD CENTERLINE. TO RELOCATE ANY UTILITY WITHIN THE ROAD ROW, THE CONTRACTOR SHALL COORDINATE THE RELOCATION WITH THE UTILITY COMPANY AND AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
5. ALL SURVEY MONUMENTS / CORNERS AND BENCHES MARKS LOCATED WITHIN THE CONSTRUCTION AREA MUST BE PRESERVED IN ACCORDANCE WITH PUBLIC ACT 74 AS AMENDED (INCLUDING ACT 34, P.A. 2000) AND AS PER WAYNE COUNTY PERMIT RULE 1.5. THE PERMIT HOLDER AND CONTRACTOR SHALL COORDINATE THE WORK WITH A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF MICHIGAN DURING CONSTRUCTION ACTIVITIES FOR THE PURPOSE OF WITNESSING, PRESERVING OR REPLACING SURVEY MONUMENTS AND MONUMENT BOXES.
6. EXPOSURE OF ANY UTILITIES UNDER THE PAVEMENT WILL NOT BE PERMITTED, UNLESS APPROVED BY THE WAYNE COUNTY ENGINEER. PAVEMENT REMOVAL AND REPLACEMENT SHALL BE PERFORMED PER APPLICABLE WAYNE COUNTY STANDARD DETAILS AN AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
7. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE WAYNE COUNTY ROAD ROW AND DRAIN EASEMENT WITH 3" TOPSOIL, THM SEED MIX AND MULCH. SLOPES STEEPER THAN 1 ON 3 SHALL BE RESTORED BY PLACING SOD ON 2" TOPSOIL.
8. ALL BACKFILL UNDER OR WITHIN 3 FEET OF THE PROPOSED OR EXISTING PAVEMENT, CURB OR SIDEWALK SHALL CONFORM TO THE WAYNE COUNTY TRENCH "B" BACKFILL REQUIREMENTS. TRENCH "A" BACKFILL MAY BE USED WITHIN THE ROAD ROW AREAS UNDER CONDITIONS OTHER THAN THOSE SPECIFIED FOR TRENCH "B".
9. CONTRACTOR IS RESPONSIBLE FOR RESTORING OR REPLACING ALL DISTURBED LANDSCAPED AREAS, SPRINKLER SYSTEMS, FENCES, SIGNS, MAIL BOXES, ETC. WITHIN THE WAYNE COUNTY ROAD ROW AND / OR AS DIRECTED BY THE COUNTY ENGINEER.
10. CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES. OTHERWISE, DETOURING TRAFFIC MUST BE PER APPROVED PLANS. ALL SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF M.M.U.T.C.D.
11. MAINTAIN A SAFE AND ADEQUATE TRAVEL ROUTE FOR PEDESTRIANS AT ALL TIMES THROUGHOUT THE PROJECT DURATION.
12. TUNNELING, BORING AND JACKING OPERATIONS SHALL BE IN ACCORDANCE WITH THE WAYNE COUNTY SPECIFICATIONS AND DETAILS. BORE PITS SHALL BE PLACED AT MINIMUM 10 FEET FROM THE BACK OF CURB OR EDGE OF PAVEMENT.
13. REMOVE ALL ABANDONED CONDUITS FROM THE COUNTY ROADS ROW OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
14. CONTRACTOR SHALL PROVIDE COLD WEATHER PROTECTION FOR ALL PROPOSED CONCRETE WORK (PAVEMENTS, SIDEWALKS, DRIVE APPROACHES, ETC.) AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
15. OVERNIGHT VEHICLE PARKING AND STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENTS ARE NOT PERMITTED WITHIN THE WAYNE COUNTY ROADS RIGHT-OF-WAY.
16. CONTRACTOR SHOULD OBTAIN SOIL EROSION AND SEDIMENTATION CONTROL PERMIT FROM THE WAYNE COUNTY DPS-ESG. CONTACT SOIL EROSION OFFICE AT (734) 326-3936.
17. CONSTRUCT THE PROPOSED STORM WATER MANAGEMENT SYSTEM IN ACCORDANCE WITH THE CURRENT WAYNE COUNTY STORM WATER MANAGEMENT PROGRAM.
18. CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC SIGNAL SHOP AT (734) 955-2154 AT LEAST 72 HOURS PRIOR TO START OF WORK AT OR NEAR ANY SIGNALIZED INTERSECTIONS.
19. CONTRACTOR SHALL NOTIFY WAYNE COUNTY 3 WORKING DAYS PRIOR TO START OF CONSTRUCTION. CONTACT THE PERMIT OFFICE AT (734) 595-6504 EXTENSION 2009.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW TACO BELL RESTAURANT LOCATED AT 1519 SOUTHFIELD ROAD, LINCOLN PARK, MI - 48146.

LOCAL MUNICIPALITY AND MICHIGAN SPECIFICATION

THE STANDARD SPECIFICATIONS OF THE LOCAL MUNICIPALITY AS PRIMARY AND THE STATE OF MICHIGAN, DEPARTMENT OF TRANSPORTATION AS SECONDARY, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

OWNER AND DEVELOPER

PETE ZINGAS
18400 TARA DRIVE,
CLINTON TOWNSHIP, MI 48036

IMPROVEMENT PLANS

TACO BELL

1519 SOUTHFIELD RD
LINCOLN PARK, MI 48146
JANUARY 18, 2021

VICINITY MAP N.T.S.

INDEX OF DRAWINGS

I hereby represent that this plan set, dated,_____ is a true and accurate copy of the plans approved by Hennessey Engineers, Inc., on_____.

Signature _____

Michigan P.E. License No. _____

Certification Date: _____

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

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

1	05.24.21	NTP/ENGINEERING REVISIONS
2	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

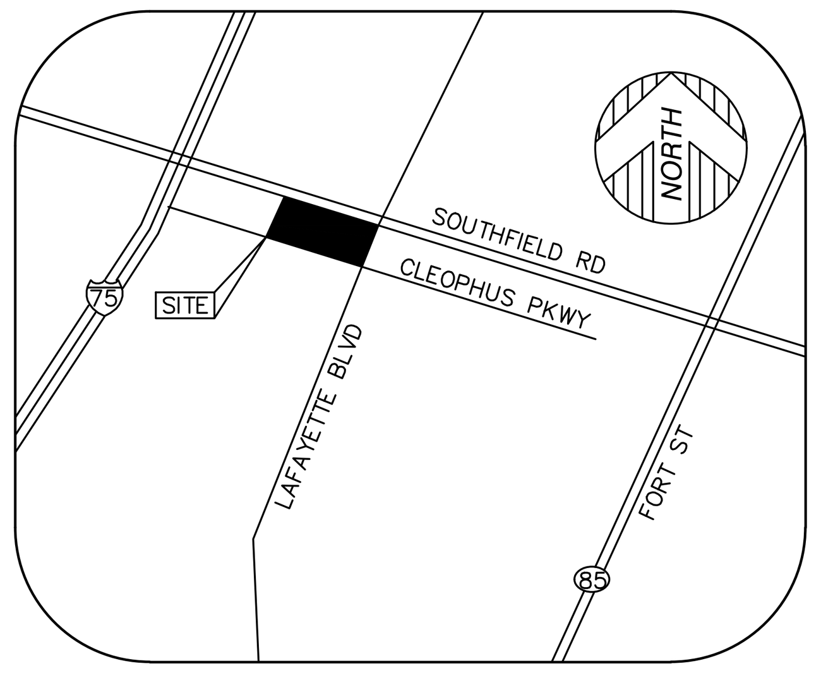
TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

END XS6

TITLE SHEET

T-001

PLOT DATE: 6-14-21



VICINITY MAP
(NOT TO SCALE)

BENCHMARKS
SITE BENCHMARK #1
PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE.
ELEVATION = 586.83' (NAVD 88)
SITE BENCHMARK #2
SOUTHEAST BOLT ON LIGHT POLE.
ELEVATION = 587.15' (NAVD 88)
SITE BENCHMARK #3
MAG NAIL IN LIGHT POLE.
ELEVATION = 589.40' (NAVD 88)

PARKING
NO MARKED PARKING ON SITE.

PARCEL AREA
49,764± SQUARE FEET = 1.14± ACRES

BASIS OF BEARING
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED.

LEGEND

●	SET 1/2" REBAR WITH CAP P.S. 53499
▲	SET MAG NAIL
×	SET X–CUT
◉	FOUND MONUMENT (AS NOTED)
(R&M)	RECORD AND MEASURED DIMENSION
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
×0.00	GROUND ELEVATION
○	UTILITY POLE
	LIGHT POLE WITH STREET LAMP
	TRAFFIC SIGNAL POLE
⊠	TRAFFIC SIGNAL CONTROL BOX
Ⓢ	SEWER MANHOLE
⊕	ROUND CATCH BASIN
▦	SQUARE CATCH BASIN
WV ⋈	WATER VALVE
Ⓜ	UNKNOWN MANHOLE
•	BOLLARD
∘	FLAG POLE
☼	LIGHTPOST/LAMP POST
	SINGLE POST SIGN
	DOUBLE POST SIGN
	DECIDUOUS TREE (AS NOTED)
	PARCEL BOUNDARY LINE
	PLATTED LOT LINE
	ADJOINER PARCEL LINE
	EASEMENT (AS NOTED)
	BUILDING
	CONCRETE CURB
	EDGE OF CONCRETE (CONC.)
	EDGE OF ASPHALT (ASPH.)
	OVERHEAD UTILITY LINE
G	GAS LINE
S	SEWER LINE
W	WATER LINE
D	STORM LINE
	MINOR CONTOUR LINE
	MAJOR CONTOUR LINE
🟨	BUILDING AREA
▨	ASPHALT
	CONCRETE

PROPERTY DESCRIPTION
LAND SITUATED IN THE CITY OF LINCOLN PARK, COUNTY OF WAYNE, STATE OF MICHIGAN, DESCRIBED AS FOLLOWS:

LOTS 241 THROUGH 244 INCLUSIVE, EXCEPT NORTHERLY PART THEREOF MEASURING 8.71 FEET ON THE EASTERLY LOT LINE AND 8.91 FEET ON THE WESTERLY LOT LINE, GEO P. EMRICKS MAPLELAWN SUBDIVISION, AS RECORDED IN LIBER 42, PAGE 72 OF PLATS, WAYNE COUNTY RECORDS. LOT 245, EXCEPT NORTHERLY PART THEREOF MEASURING 8.92 FEET ON THE EASTERLY LOT LINE AND 9.10 FEET ON THE WESTERLY LOT LINE, GEO P. EMRICKS MAPLELAWN SUBDIVISION, AS RECORDED IN LIBER 42, PAGE 72 OF PLATS, WAYNE COUNTY RECORDS.

LOT 246, EXCEPT NORTHERLY PART THEREOF MEASURING 9.10 FEET ON THE EASTERLY LOT LINE AND 9.27 FEET ON THE WESTERLY LOT LINE, GEO P. EMRICKS MAPLELAWN SUBDIVISION, AS RECORDED IN LIBER 42, PAGE 72 OF PLATS, WAYNE COUNTY RECORDS.

LOT 247, EXCEPT NORTHERLY PART THEREOF MEASURING 9.27 FEET ON THE EASTERLY LOT LINE AND 9.45 FEET ON THE WESTERLY LOT LINE, GEO P. EMRICKS MAPLELAWN SUBDIVISION, AS RECORDED IN LIBER 42, PAGE 72 OF PLATS, WAYNE COUNTY RECORDS.

LOT 248, EXCEPT NORTHERLY PART THEREOF MEASURING 9.45 FEET ON THE EASTERLY LOT LINE AND 9.63 FEET ON THE WESTERLY LOT LINE, GEO P. EMRICKS MAPLELAWN SUBDIVISION, AS RECORDED IN LIBER 42, PAGE 72 OF PLATS, WAYNE COUNTY RECORDS.

LOT 249 THROUGH 251, EXCEPT THAT PART TAKEN FOR STREET WIDENING PURPOSES, GEO P. EMRICKS MAPLELAWN SUBDIVISION, AS RECORDED IN LIBER 42, PAGE 72 OF PLATS, WAYNE COUNTY RECORDS.

LOT 252, GEO P. EMRICKS MAPLELAWN SUBDIVISION, AS RECORDED IN LIBER 42, PAGE 72 OF PLATS, WAYNE COUNTY RECORDS.

SURVEYOR'S NOTES
1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.

2. THERE ARE NO DELINEATED WETLANDS ON SITE.

FLOOD NOTE
SUBJECT PARCEL LIES WITHIN:
OTHER AREA (ZONE X): AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

AS SHOWN ON FLOOD INSURANCE RATE MAP: MAP NUMBER 26163C0268E, DATED 2/2/2012, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

ZONING REGULATIONS
MBD – MUNICIPAL BUSINESS DISTRICT

*MINIMUM LOT AREA – 4,000 SQUARE FEET

*MAXIMUM LOT COVERAGE – 50%

*REQUIRED SETBACK LINE MINIMUM DIMENSIONS IN FEET –
FRONT – (O)
LEAST ONE SIDE – (P)
TOTAL TWO SIDES – (P)
REAR – (S)

*MAXIMUM HEIGHT IN FEET – 25 FEET

*FOOTNOTES
O – WHERE AN EXISTING FRONT SETBACK LINE HAS BEEN ESTABLISHED BY EXISTING COMMERCIAL BUILDINGS OCCUPYING FORTY PERCENT (40%) OR MORE OF THE FRONTAGE WITHIN THE SAME BLOCK, OR BY COMMERCIAL BUILDINGS OCCUPYING SIXTY PERCENT (60%) OR MORE OF THE FRONTAGE WITH ADJACENT BLOCKS, SUCH ESTABLISHED SETBACK SHALL APPLY.
P – IN ANY COMMERCIAL DISTRICT, EXCEPT FOR THE REGIONAL BUSINESS DISTRICT (RBD), SIDE YARDS ARE NOT REQUIRED ALONG INTERIOR SIDE LOT LINES DIRECTLY ABUTTING A PUBLIC RIGHT–OF–WAY, OR ALONG INTERIOR SIDE LOT LINES.
S – NO REAR SETBACK IS REQUIRED WHERE PROPERTY ABUTS A PUBLIC ALLEY.

NOTE: ALL ZONING INFORMATION IS TAKEN FROM THE CITY OF LINCOLN PARK WEBSITE. ALL ZONING INFORMATION MUST BE VERIFIED FOR COMPLETENESS WITH CURRENT ZONING REGULATIONS.

TITLE REPORT NOTE
ONLY THOSE EXCEPTIONS CONTAINED WITHIN THE OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY COMMITMENT No. 3–683565, DATED AUGUST 14, 2020, AND RELISTED BELOW WERE CONSIDERED FOR THIS SURVEY. NO OTHER RECORDS RESEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR. COVENANTS, CONDITIONS AND RESTRICTIONS AND OTHER PROVISIONS BUT OMITTING RESTRICTIONS, IF ANY, BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN AS CONTAINED IN INSTRUMENT RECORDED IN LIBER 1937, PAGE 120; LIBER 2509, PAGE 337; LIBER 2860, PAGE 17; LIBER 2919, PAGE 301; LIBER 3464, PAGE 547; LIBER 3710, PAGE 461; LIBER 4287, PAGE 273 AND IN LIBER 6476, PAGE 196, WHICH ARE NOT PRESENTLY ACCOMPANIED BY A RIGHT OF REVERTER. (SEE DOCUMENT FOR TERMS AND CONDITIONS)

9. TERMS, CONDITIONS AND PROVISIONS WHICH ARE RECITED IN EASEMENT AGREEMENT RECORDED IN LIBER 54228, PAGE 232. AS TO LOT 253. (AS SHOWN)

SURVEYOR'S CERTIFICATION
TO HASSAN BAZZI; 4Z LINCOLN PARK, LLC, A MICHIGAN LIMITED LIABILITY COMPANY; TACO BELL OF AMERICA, LLC, A DELAWARE LIMITED LIABILITY COMPANY; OLD REPUBLIC NATIONAL INSURANCE TITLE COMPANY; CHICAGO TITLE INSURANCE COMPANY; LEVEL ONE BANK; GPD GROUP:

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 INCLUDED ITEMS 1, 2, 3, 4, 5, 6A, 6B, 7A, 7B1, 8, 9, 10A, 10B, 11, 13, 18, 19, 20, AND 21 OF TABLE A, THEREOF. THE FIELD WORK WAS COMPLETED ON 04/12/19.

DATE OF PLAT OR MAP: 04/15/19

DJackson

DANIEL J. JACKSON
PROFESSIONAL SURVEYOR
MICHIGAN LICENSE NO. 53499
22556 GRATIOT AVE., EASTPOINTE, MI 48021
djackson@kemtec-survey.com

STATE OF MICHIGAN
DANIEL J. JACKSON
PROFESSIONAL SURVEYOR
No. 53499
LICENSED PROFESSIONAL SURVEYOR
05/25/21

KEM-TEC
A GROUP OF COMPANIES
PROFESSIONAL ENGINEERING, SURVEYING & ENVIRONMENTAL SERVICES
Eastpointe (800) 295.7222
Detroit (313) 758.0677
Ann Arbor (734) 994.0888
Grand Blanc (888) 694.0001
www.kemtecgroupofcompanies.com

ALTA / NSPS LAND TITLE SURVEY
PREPARED FOR: SIMON, STELLA & ZINGAS
1511 SOUTHFIELD RD, LINCOLN PARK, MICHIGAN,
PART OF PRIVATE CLAIM 43

REVISION	DATE	BY	DESCRIPTION
5	05/07/21	JV	REVISED INVERTS
4	03/15/21	CMC	REVISE PER NEW TITLE WORK
3	10/13/20	MRJ	REVISED INVERTS
2	09/17/20	MRJ	ADDED BENCHMARK #3
1	05/16/19	MRJ	PER REVIEW COMMENTS

DRAWN BY: MRJ 04/15/19
CHECKED BY: DJJ 04/15/19
DATE: APRIL 15, 2019
PROJECT NO: 19-00999
SCALE: 1" = 20'

1
1 OF 1 SHEETS

DEMOLITION NOTES

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

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

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

4. PROTECT ITEMS INDICATED TO REMAIN AGAINST DAMAGE AND SOILING THROUGHOUT CONSTRUCTION. WHEN PERMITTED BY THE ENGINEER OR OWNER, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION THROUGHOUT CONSTRUCTION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.

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

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

7. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE PERMITTED.

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

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

10. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA. SAFE PASSAGE INCLUDES THE ERECTION OF TEMPORARY PROTECTION AND/OR BARRICADES EXTENDING ALL THE WAY TO THE GROUND SURFACE AS PER LOCAL GOVERNING AUTHORITIES AND IN ACCORDANCE WITH THE CURRENT ADA REGULATIONS.

11. USE OF EXPLOSIVES WILL NOT BE PERMITTED.

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

13. PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY DEMOLITION OPERATIONS AT THE CONTRACTORS COST.

14. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.

15. NO BURING OF ANY MATERIALS ON SITE SHALL BE PERMITTED.

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

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

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

19. DEMOLISH FOUNDATION WALLS AND OTHER BELOW-GRADE DEMOLITION. COMPLETELY REMOVE BELOW-GRADE DEMOLITION, INCLUDING FOUNDATION WALLS FOOTINGS, AND BELOW GRADE STRUCTURAL SLABS.

20. FILLING BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES AND PAVEMENTS WITH SOIL MATERIALS ACCORDING TO THE REQUIREMENTS STATED HEREIN AND IN ACCORDANCE WITH A GEOTECHNICAL ENGINEER. (SEE ALSO GRADING PLAN NOTES). CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO FILLING ANY AREAS. CONTRACTOR SHALL CONTACT ENGINEER TO OBSERVE FILL PROCEDURES.

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

22. CONTRACTOR TO SAWCUT EXISTING PAVEMENT TO REMAIN PRIOR TO CURB, GUTTER, PAVEMENT, ETC REMOVAL.

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

24. WHEN NOTED AND ALLOWED BY THE OWNER, THE CONTRACTOR MAY RE-USE EXISTING WHEELSTOPS FOR THE PROPOSED SITE. CONTRACTOR AND CONSTRUCTION MANAGER SHALL COORDINATE WHICH EXISTING WHEELSTOPS MAY BE RE-USED PRIOR TO DEMOLITION. CONTRACTOR SHALL ENSURE THAT ALL RE-USED WHEELSTOPS ARE PROTECTED DURING CONSTRUCTION.

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

GENERAL PLAN AND SURVEY NOTES

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

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

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

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

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

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

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

8. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS, AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE (SEE SWPP PLANS).

9. THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR THE ENGINEER AND THE SUBCONTRACTOR.

10. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFETY, MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS.

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

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

13. THE ALTA/ NSPS LAND TITLE SURVEY BY KEM-TEC, DATED 04/15/2019 SHALL BE CONSIDERED A PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING IMPROVEMENTS PER THESE PLANS.

14. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON ALTA SURVEY. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.

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

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

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

CONCRETE NOTES AND SPECIFICATIONS

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

2. ALL EXTERIOR CURB SHALL HAVE EXPANSION JOINTS AT 100'-0" O.C, AND CONTROL JOINTS AT 10'-0" O.C. UNLESS OTHERWISE SPECIFIED.

3. ALL EXTERIOR SIDEWALKS SHALL HAVE EXPANSION JOINTS AT 50'-0" O.C. AND CONTROL JOINTS PER TABLE BELOW UNLESS OTHERWISE SPECIFIED.

4. ALL EXTERIOR VEHICULAR CONCRETE PAVEMENT SHALL HAVE CONTROL JOINTS PER TABLE BELOW AND EXPANSION JOINTS PER ACI TYPICAL RECOMMENDATIONS.

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

* MAXIMUM JOINT SPACING MAY BE INCREASED UP TO 17.5 FEET FOR FULLY REINFORCED PAVEMENT SECTIONS 8 INCHES OR GREATER.

5. ALL JOINTS, INCLUDING SAWED JOINTS, SHALL BE SEALED. JOINTS SHALL BE CLEANED AND DRIED PRIOR TO SEALING. JOINT SEALING MATERIALS SHALL COMPLY WITH ASTM D 3406 FOR HOT APPLIED ELASTOMERIC, TT-S-001543A FOR SILICONE RUBBER, AND TT-S-00230S FOR SINGLE COMPONENT ELASTOMERIC. SEALER WIDTH, DEPTH, AND PREPARED APPLICATION SURFACES SHALL BE PER MANUFACTURES RECOMMENDATIONS.

6. ALL CONCRETE PANELS SHALL BE SQUARE WITH A LENGTH TO WIDTH RATIO NO GREATER THAN 1.25 TO 1 AND HAVE A MEDIUM TRANSVERSE FINISH WHICH SHALL BE TO MINIMUM STRENGTH PRIOR TO OPENING FOR VEHICULAR TRAFFIC AREAS.

7. ALL JOINTING SHOWN HEREIN THIS PLAN SET IS FOR GENERAL GUIDELINE OF DESIGN INTENT ONLY. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FINAL LAYOUT OF THE JOINTING TO ENSURE NO UNDESIRED CRACKS FORM THROUGH ANY CONCRETE PANELS. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF THEIR PAVEMENT JOINT LAYOUT TO OWNER / CONSTRUCTION MANAGER PRIOR TO PLACEMENT FOR RECORD. THE CONTRACTOR SHALL REPLACE ANY CRACKED CONCRETE PANELS TO THE NEXT JOINT PAST THE EFFECTED AREA AT NO ADDITIONAL COST TO THE PROJECT WITHIN ONE YEAR OF PROJECT COMPLETION.

8. CONCRETE SHALL CONFORM TO THE FOLLOWING:

a.	STRENGTH	PER MIX DESIGN, MINIMUM 4000 PSI
b.	MIN. PORTLAND CEMENT CONTENT	600 LB / CY (ASTM C150)
c.	POZZOLAN MATERIALS	SILICA FUME MAY REPLACE MAX. 8% CEMENT FLY ASH MAY REPLACE MAX. 20% CEMENT
d.	MAX W/C RATIO	PER MIX DESIGN, MAXIMUM 0.43
e.	ENTRAINED AIR	6.5% AVG ± 1.5% (7.0% TARGET)
f.	SLUMP	4" MAX WITHOUT WATER REDUCER
g.	SLUMP WITH HRWR OR MID RANGE WR	6" TO 8"
h.	WATER REDUCER	NORMAL TYPE A
i.	RETARDER	NORMAL TYPE D AS NEEDED (REQUIRED IF CONCRETE TEMPERATURE EXCEEDS 85F
j.	CONCRETE TEMPERATURE AT PLACEMENT	50F-90F
k.	ACCELERATOR	NON-CHLORIDE TYPE ONLY - CALCIUM CHLORIDE IS PROHIBITED
l.	FIBER - CURBS, WALKS, STEPS - VEHICULAR TRAFFIC PAVEMENT	POLYPROPYLENE OR POLYETHYLENE MiCRO SYNTHETIC FIBERS @ 1.5 LBS / CY (FIBERMESH 300 OR APPROVED EQUAL) MACRO SYNTHETIC FIBERS @ 4.0 LBS / CY (TUF-STRAND SF OR APPROVED EQUAL)

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

10. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A185, ASM A615 AND ASTM A1064. ALL SLAB REINFORCEMENT W.W.F., WHEN USED, SHALL BE SUPPORTED ON CHAIRS AND BE FLAT SHEETS ONLY.

11. ALL NORMAL WEIGHT CONCRETE TO HAVE A MINIMUM DENSITY OF 145 PCF UNLESS NOTED OTHERWISE.

12. NO WATER SHALL BE ADDED TO CONCRETE ON SITE. CONCRETE SHALL ARRIVE AT JOB SITE WITH APPROPRIATE W/C RATIO. SUPERPLASTICIZER AND/OR OTHER ADMIXTURES MAY BE UTILIZED TO ACHIEVE DESIRED WORKABILITY.

13. SLAG AGGREGATES AND/OR SLAG CEMENT SHALL NOT BE PERMITTED IN ANY CONCRETE MIX. FLY ASH SHALL MEET THE REQUIREMENTS OF ASTM C618, CLASS C OR CLASS F, EXCEPT THE LOSS ON IGNITION MUST NOT EXCEED 5%. SILICA FUME SHALL BE DRY DENSIFIED MEETING THE REQUIREMENTS OF ASTM C1240.

14. AGGREGATES SHALL BE LOW-SHRINKAGE / WELL GRADED PER ASTM C33 AND THE LOCAL STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS WHICH ARE RESISTANT TO FREEZE / THAW, SULFATE ATTACK, AND ARE NOT ALKALI-CARBONATE AGGREGATES OR SUSCEPTIBLE TO ALKALI-AGGREGATE REACTIVITY.

15. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL BE PER ASTM C1315 AND ACI 308. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL BE WHITE PIGMENTED AND APPLIED PER MANUFACTURES RECOMMENDATIONS WITHIN THE ALLOWABLE TIME PERIOD. APPLICATIONS SHALL BE PHOTOGRAPH DOCUMENTED FOR EVEN AND CONSISTENT COVERAGE SIMILAR TO THE APPEARANCE OF A BLANK WHITE SHEET OF PAPER. NO POOLING OF MATERIAL SHALL BE ACCEPTED.

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

GRADING PLAN NOTES

1. THE CONTRACTOR SHALL ATTAIN MOST RECENT GEOTECHNICAL REPORT FROM THE OWNER. ALL INFORMATION IN GEOTECHNICAL REPORT SHALL TAKE PRECEDENCE OVER INFORMATION PROVIDED IN THIS PLAN SET.

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

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

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

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

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

7. AT A MINIMUM ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST D-698. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND RETAIN A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO ENSURE COMPLIANCE WITH THE GEOTECHNICAL REPORT, MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS, AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE OWNER SHALL RECEIVE ALL COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. NOTIFY PROJECT CONSTRUCTION MANAGER IF ANY UNSUITABLE SOILS ARE FOUND.

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

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

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

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

GENERAL UTILITY NOTES

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

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

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

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

5. ALL UTILITIES UNDER OR WITHIN THREE (3) FEET OF PAVEMENT MUST BE BACKFILLED WITH 21AA LIMESTONE, COMPACTED TO 95% MODIFIED PROCTOR.

STORM SEWER NOTES

1. ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE CORRUGATED HDPE SMOOTH INTERIOR PIPE (UNLESS OTHERWISE NOTED ON PLANS). HDPE PIPE SHALL CONFORM TO ASTM F2306. STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE PVC, SDR 26, PER ASTM D 3034 OR SCHEDULE 80 PVC (AS INDICATED ON THE UTILITY PLAN) AND JOINTS PER ASTM D 3212 (OR APPROVED EQUAL), UNLESS OTHERWISE NOTED ON THE PLANS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION. COORDINATE ALL WORK WITH WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICE, ENGINEERING DIVISION - PERMIT OFFICE, ALI ALJAWAD @ 734-595-6504 x 2079.

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

SANITARY SEWER NOTES

1. ALL MATERIALS SHALL BE IN CONFORMANCE WITH THE CITY OF LINCOLN PARK CURRENT STANDARDS AND SPECIFICATIONS.

2. SANITARY SEWER LATERAL INVERT AT BUILDING SHALL BE A MINIMUM OF 5.0' BELOW FINISH FLOOR.

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

4. THE CONTRACTOR SHALL HIRE A LOCAL PLUMBER LICENSED WITH THE LOCAL SANITARY JURISDICTION TO MAKE ALL CONNECTIONS FROM THE BUILDING TO THE EXISTING SEWER. CONTRACTOR SHALL SECURE A SANITARY SEWER CONNECTION PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTORS PRICE FOR SANITARY SEWER INSTALLATION SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE LOCAL SANITARY JURISDICTION TO PROVIDE A COMPLETE WORKING SERVICE. COORDINATE ALL WORK WITH CITY OF LINCOLN PARK, JAMES HOLLANDSWORTH @ (734) 759-1600.

5. ALL SANITARY PIPE MATERIAL SHALL BE 6" PVC, SDR 26 CONFORMING TO ASTM D 3034, WITH JOINTS PER ASTM 3212.

WATER NOTES

1. WATER SERVICE SHALL BE 2" (COPPER TYPE K) CONFORMING TO ASTH B-88 STANDARD SPECIFICATIONS FOR SEAMLESS COPPER WATER TUBE AND SHALL BE INSTALLED WITH A MINIMUM COVER OF 66" OR BELOW FROST LINE, WHICHEVER IS GREATER.

2. TAPS FOR THE SERVICE SHALL BE AT THE 9:00 OR 3:00 POSITION AND SHALL BE COMPLETED BY THE LINCOLN PARK DEPARTMENT OF PUBLIC SERVICES.

3. FOR 2 INCHES AND SMALLER SERVICES, FULL 60 FEET LENGTHS OF "K-COPPER" PIPE SHALL BE USED. SPLICING OF SHORTER PIECES IS NOT PERMITTED.

4. COMPRESSION FITTINGS ARE ACCEPTABLE FOR WATER SERVICES. SADDLES FOR WATER SERVICES ARE TO BE BRONZE WITH DOUBLE STRAP OR STAINLESS STEEL.

5. CONSTRUCTION AND MATERIALS PROVIDED BY THE WATER COMPANY:
   - FURNISH METER.
   - COORDINATE ALL WORK WITH THE CITY OF LINCOLN PARK, JAMES HOLLANDSWORTH @ 734-759-1600.

6. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
   - TAP MAIN.
   - INSTALL CURB STOP & BOX AND WATER METER.
   - FURNISH AND INSTALL COPPER SERVICE LINE FROM METER TO BUILDING.
   - ALL TRENCHING AND BACKFILLING.

GENERAL LEGEND

EXISTING

UTILITY POLE
LIGHT POLE WITH STREET LAMP
TRAFFIC SIGNAL POLE
TRAFFIC SIGNAL CONTROL BOX
SEWER MANHOLE
CATCH BASIN
WV WATER VALVE
BOLLARD
SIGN POST
DECIDUOUS TREE

P/L EXISTING PROPERTY LINE
OH EXISTING OVERHEAD UTILITY LINES
GAS EXISTING UNDERGROUND GAS LINES
ST EXISTING UNDERGROUND STORM LINES
SAN EXISTING UNDERGROUND SANITARY LINES
W EXISTING UNDERGROUND WATER LINES
E EXISTING UNDERGROUND ELECTRIC LINES
EXISTING CURB
EXISTING CURB & GUTTER
000 EXISTING CONTOUR

PROPOSED

PROPOSED CATCH BASIN
PROPOSED STORM MANHOLE
PROPOSED CLEAN OUT
PROPOSED EXTERIOR GREASE INTERCEPTOR
PROPOSED LIGHT POLE
PROPOSED EDGE OF PAVEMENT
PROPOSED CURB
PROPOSED TRAFFIC SIGN
PROPOSED PAINTED ADA SYMBOL
PROPOSED DIRECTIONAL PAVEMENT MARKINGS

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

3	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL

END XS6

GENERAL NOTES

C-001

PLOT DATE: 6-14-21

CITY OF LINCOLN PARK STANDARD GENERAL NOTES

1. All workmanship and materials shall be in accordance with the current standards and specifications of the City of Lincoln Park.

2. The contractor and his subcontractors shall attend a pre-construction meeting at a time and place arranged by the engineer in which various utility companies and governmental agency representatives will be present.

3. After a pre-construction meeting is held, the contractor shall notify Hennessey Engineers, Inc. a minimum of 3 working days prior to the start of construction.

4. Contractor shall notify Miss Dig for existing utility stake out 72 hours in advance of construction. The project will be billed for excessive stakeouts.

5. Locations and elevations of existing underground utilities as shown on the plans are approximate. No guarantee is either expressed or implied as to the completeness or accuracy thereof. The contractor shall be exclusively responsible for determining and verifying the location, depth, and elevation of existing utilities, and proposed utilities crossing the construction area prior to start of construction. Contractor shall notify engineer if any conflicts are apparent or if locations and depth differ significantly from the plans.

6. All elevations refer to current N.G.V.D. datum.

7. All properties or facilities in the surrounding areas, public or private, destroyed or otherwise damaged by the contractors operations shall be replaced or repaired to the satisfaction of the authority having jurisdiction of the property or facility by the contractor at his own expense.

8. Contractor shall provide and maintain all necessary barricades and traffic control devices required by the current standards and specifications of the City of Lincoln Park, other agencies having jurisdiction, and the Michigan Manual of Uniform Traffic Control Devices (MMUTCD).

9. All required soil erosion and sedimentation control measures must be in place prior to starting construction, including stripping and grubbing.

10. All trenches under or within three feet of existing or proposed pavement, curb, sidewalks, and driveways shall be backfilled with 21A crushed limestone (Trench B) and compacted in one foot layers to a minimum 95 percent maximum unit weight.

11. All trenches within or parallel and adjacent to right-of-way, except where 21A crushed limestone (Trench B) backfill is required, shall be backfilled with suitable excavated material (excluding blue clay) compacted in one foot layers to a minimum of 90 percent maximum unit weight. This trench shall be designated Trench "A".

12. Four inches of compacted approved bedding shall be placed under all utilities and to one foot above the top of the pipe.

13. A recording detector tape, approved by the engineer, shall be installed two feet above the top of all non-metal sewer and water lines.

14. All public improvements and private improvements shall be field staked under the supervision of a professional engineer or land surveyor licensed to practice in the State of Michigan. If Hennessey engineers, Inc. is not performing the field staking, a copy of the surveying cut sheet must be sent to Hennessey Engineers, Inc., one (1) working day prior to any construction starting.

15. All work within Wayne County and State of Michigan right-of-way shall be in accordance with their specifications. A copy of the required permit(s) must be on file with Hennessey Engineers and the City of Lincoln Park prior to any construction starting.

16. All disturbed lawn areas shall be restored with 3 inches of topsoil and Class "A" sod. The Contractor will be responsible for watering and maintaining the sod until it is firmly knitted in place and in a vigorous growing condition. Areas designated by the City Engineer as non-lawn areas, but grass areas, shall have placed 3 inches of topsoil, a chemical fertilizer, a Michigan Department of Environmental Quality roadside mixture of seed sowed, and a mulch applied in accordance with City of Lincoln Park Standard Specifications.

17. For isolated road cuts, all trenches shall be backfilled with "K-Krete" or an approved equal flowable fill. This shall be designated as Trench "C".

STANDARD STORM SEWER NOTES

1. All construction shall conform to current City of Lincoln Park Standard Specifications for Storm Sewer and any other agency having jurisdiction of the construction area.

2. All road catchbasins and inlets shall have underdrains as shown on the City of Lincoln Park Standard Storm Sewer Details. All parking lot catchbasins and inlets shall have underdrains as shown on the City of Lincoln Park Standard Storm Sewer Details.

3. All storm sewer shall be placed on approved bedding as shown on the City of Lincoln Park Standard Storm Sewer Details.

4. Contractor shall compact all trenches and excavated areas in one-foot lifts by vibratory means during backfilling operations to the required percent per the City of Lincoln Park Standards.

5. For isolated road cuts, all trenches shall be backfilled with "K-Krete" or an approved equal flowable fill. This shall be designated as Trench "C".

STANDARD SANITARY SEWER NOTES

1. All construction shall conform to current City of Lincoln Park Standard and General Specifications for Sanitary Sewer and other agencies having jurisdiction over the construction area.

2. All sanitary sewer wye openings shall contain factory installed premium joints.

3. No connection receiving stormwater, surface water, or groundwater shall be made to the public sanitary sewers or the building service lead.

4. Infiltration for any section of sewer between manholes shall not exceed 100 gallons per inch diameter, per mile, per 24 hours.

5. Each wye or end of building lead to be capped shall have a cap with the same type of material as the lead and shall have a solvent weld joint. Cleanouts shall have J.R. Smith # 4240U4 or approved equal covers with 24"x24" x6" thick concrete pad surround. See detail on sheet S.D.1.

6. Sanitary sewer leads shall be installed to a minimum of 1 foot past the right-of-way or easement line as shown on these plans. Risers are required where a sanitary sewer is over 10' in depth. Risers shall be installed to a depth of 10 feet.

7. A bulkhead shall be installed at each outlet to an existing system and shall not be removed until the new sewer system has been accepted by the City of Lincoln Park.

8. All sewers shall be subjected to an air filtration, or exfiltration test or a combination of same prior to acceptance. All sewers over 24 inch diameter shall be subjected to infiltration tests. All sewers of 24 inch diameter of smaller, where the groundwater level above the top of the sewer is over 2 feet, shall be subjected to infiltration tests. All sewers of 24" diameter or less, where the groundwater level above the top of the sewer is 2 feet or less, shall be subjected to air tests or exfiltration tests.

9. All sewers shall be televised by the contractor, at no additional cost to the City of Lincoln Park, with test results approved and the city provided a copy of the video tape of the sewer prior to placing the sewer in service.

10. Manhole casting shall be watertight, bolt down type with an approved external chimney seal.

11. Contractor shall notify Wayne County and the City of Lincoln Park Water/Sewer Department at least 48 hours two (2) working days prior to start of construction.

12. Differential excavation around the existing manhole shall not exceed 6 feet.

13. All stubs shall have a water and air-tight bulkhead approved by the city.

14. Wherever existing manholes or sewer pipe are to be tapped, core manhole with a coring machine and install a rubber boot with stainless steel bands. Use Kor-N-Seal with Korband external contraction bands or approved equal.

15. All manhole steps shall be placed toward the property lines unless otherwise noted.

16. No footing drains or downspouts shall be connected to the building sewer.

17. Deflection Tests:

a. Deflection tests shall be performed on all flexible pipe. The test shall be conducted after the final backfill has been in place at least 30 days.

b. No pipe shall exceed a deflection of 5%

c. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices.

18. Contractor shall compact all trenches and excavated area in one-foot lifts by vibratory means during backfilling operations to the required percent per the City of Lincoln Park Standards

19. For isolated road cuts, all trenches shall be backfilled with "K-Krete" or an approved equal flowable fill. This shall be designated as Trench "C".

CITY OF LINCOLN PARK STANDARD WATERMAIN NOTES

1. All construction shall conform to current City of Lincoln Park Detailed Specifications for watermain and any other agency having jurisdiction of the construction area.

2. Slip-on joints may be used except at tees, bends, and hydrants, where mechanical joints will be used.

3. All watermain shall be placed on approved bedding as shown on the City of Lincoln Park Standard Watermain Details.

4. All watermains shall be installed a minimum of 6 feet below proposed finished grade. Seven (7) foot minimums when in County Right-of-Way. When a watermain must dip to pass under a storm sewer or sanitary sewer, the sections which are deeper than normal shall have a minimum of 18" clearance between utilities and be in accordance with the standard detail.

5. No pipe shall be deflected more than 3 degrees. Where deflections greater than 3 degrees are required, bends, vertical or horizontal, will be required in accordance with the details.

6. A thrust block is required on the opposite side of each hydrant, tee, cap and bend.

7. Connections to existing watermains shall not be made until after hydrostatic/bacteriological tests have been successfully completed and reviewed by the Engineer.

8. The watermain shall be pressure tested at 150 psi for 2 hours with an allowable leakage of 1 gallon per inch diameter per mile of pipe in the 2 hour period. Test sections shall not exceed 1,000 feet. Testing against valves is not allowed.

9. Fire hydrants shall be Mueller Centurion or East Jordan Iron Works 6-BR equipped with 2- 4" pumper nozzles in commercial, industrial, and residential areas. One of the pumper nozzles, shall be a "Fire Flow" TM nozzle, Model 4550, manufactured by RLS Group, Inc. or approved equal and the other nozzle shall be Detroit Standard Threads. On the non-extendable dead-end waterlines, the fire hydrant shall be East Jordan Iron Works 5-BR. Opening shall be in a counter-clockwise direction. Threads shall be Detroit Standard Threads with 1-1/8 pentagonal nut.

10. All hydrants shall be properly orientated and approved by the Fire Department prior to the pressure test.

11. All hydrants not in service shall be covered with black plastic until such time as they are put in service or removed.

12. All gate valves shall be right hand open E.J.I.W. Resilient Wedge.

13. Water gatewells shall not be located in driveways, sidewalks or streets.

14. Gate valves and curb stops shall only be operated by City of Lincoln Park Water/Sewer Department personnel except in an emergency.

15. Contractor shall compact all trenches and excavated areas in one-foot lifts by vibratory means during the backfilling operations to the required percent per the City of Lincoln Park Standards.

16. The City of Detroit Water and Sewer Department, the City of Lincoln Park, and Hennessey Engineers, Inc. shall be notified at least 72 hours (three (3) working days) prior to any watermain construction.

17. All saddles for water services shall be bronze with double or stainless steel straps.

18. For isolated road cuts, all trenches shall be backfilled with "K-Krete" or an approved equal flowable fill. This shall be designated as Trench "C".

STANDARD PAVING AND PAVEMENT REPLACEMENT NOTES

1. All construction shall conform to current City of Lincoln Park Standards and General Specifications for Paving and any other agency having jurisdiction over the construction area.

2. Compaction of all pavement subbase shall be to a minimum of 95% maximum unit weight prior to placement of pavement. No paving shall take place prior to the successful testing of the compaction of the backfill and/or subbase.

3. All fill required to meet final subgrade elevations shall be select material approved by the City Engineer free from organic material or extraneous matter, and shall be placed in layers not exceeding 6 inches and compacted to a minimum of 95% of its maximum unit weight. The subgrade must be proof rolled prior to the placement on pavement base.

4. All radii at intersections are to be 25 feet unless otherwise noted.

5. The contractor shall submit, prior to the pre-construction meeting, a concrete and bituminous mix design from the supplier and a 21A crushed limestone sample for approval by the city engineer.

6. New pavement shall be as described in the plans and specifications.

7. All curb and gutter, new or replacement, shall be placed on a minimum of 4 inch 21A crushed limestone base. The base shall be placed one foot behind the back of curb.

8. Existing concrete pavement and curb sections shall be saw cut the full depth of the pavement prior to their removal.

9. Any excavation necessary to install replacement pavement at the proposed grades shall be performed by the contractor.

10. If the pavement is being replaced, the minimum thickness of replacement concrete allowed for roadways is 8 inches, and the minimum thickness of asphalt pavement for roadways is 5 inches.

11. If the drive approach or sidewalk located in the approach is being replaced, the minimum thickness of replacement concrete is 6 inches. No asphalt drive approaches are allowed. If the sidewalk is located outside the approach, the minimum thickness of concrete allowed is 4 inches. New driveway pavement shall be a minimum of 6" thick concrete with thickened edges unless otherwise noted.

12. All replacement pavement for roadways be placed on 21A crushed limestone per the City of Lincoln Park standard specifications.

13. If an asphalt cap is required to match the existing pavement, the thickness of the existing asphalt shall be matched. This cap shall be placed on a minimum of 8 inches of replacement concrete.

14. Before placing the replacement pavement, the contractor shall install 1/2" diameter hook bolts with Philip Red Heads into the existing pavement. These bolts shall be install at 40 inches on center.

15. 21A crushed limestone, compacted in place to a minimum of 95 percent maximum unit weight shall be placed where additional base is required to meet proposed pavement grades.

16. The contractor shall remove unsatisfactory subgrade as determined by the engineer and replace the unsatisfactory subgrade with 21A crushed limestone compacted to a minimum of 95 percent maximum unit weight.

17. All joints in concrete pavement areas, including curb and gutter, shall be sealed with a hot-poured, elastic-type compound, approved by the city engineer.

18. Contractor shall protect all trees and shall be responsible for replacing any trees damaged by his operations.

19. Surface restoration shall include replacement of existing sod between the sidewalk and curb. Three inches of topsoil shall be placed prior to placing Class "A" sod. Contractor shall keep the sodded area continuously moist until a good growth is indicated.

20. It shall be the responsibility of the paving contractor to adjust the top of all existing structures (sewers, manholes, catchbasins, inlets, gatewells, etc., except hydrants) within the street right-of-way or within 10 feet adjacent to the street right-of-way to the final grade as required by the City of Lincoln Park. All such adjustments will be incidental to the paving work.

21. The contractor shall install all required permanent pavement striping upon completion of the pavement replacement. This work shall be performed in accordance with the "Michigan Manual of Uniform Traffic Control Devices" (MMUTCD) and as directed by the Engineer.

22. All existing sidewalk that is cracked, uneven, and/or creates a trip hazard shall be removed and replaced as determined by the Engineer and Department of Public Services.

SHEET SN 1

TITLE
STANDARD NOTES
CITY OF LINCOLN PARK
WAYNE COUNTY, MICHIGAN

HENNESSEY ENGINEERS, INC.
ENGINEERING THE FUTURE.
13500 REECK ROAD
SOUTHGATE, MI 48195
(734) 759-1600
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APPROVED BY:	CHECKED BY:	DRAWN BY:	REVIEWED BY:	SCALE:	DATE:	PROJECT NUMBER:
		MP		NONE	12-14-09	

A1 CITY OF LINCOLN PARK STANDARD NOTES
N.T.S.

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

FOR REFERENCE ONLY

1	06.14.21	ISSUED FOR BID
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7		
8		
9		

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

CITY GENERAL NOTES

C-002

PLOT DATE: 6-14-21

GENERAL NOTES

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

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

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

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

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

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

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

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

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

10. IF FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL 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.

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

12. IMPLEMENTATION OF EROSION AND SEDIMENT CONTROLS SHALL CONFORM TO STATE OF MDOT CONSTRUCTION GENERAL PERMIT AND THE CITY OF LINCOLN PARK CODIFIED ORDINANCES. IF A CONFLICT EXISTS BETWEEN THE TWO REGARDING EROSION AND SEDIMENT CONTROL IMPLEMENTATION, THE MORE RESTRICTIVE SHALL APPLY.

INSPECTION NOTES

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

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

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

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

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

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

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

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

SPILLS AND CONTAMINATION

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

2. ANY DISCHARGE OF PETROLEUM OR PETROLEUM PRODUCTS OF LESS THAN 25 GALLONS ONTO A PERVIOUS SURFACE SHALL BE LEGALLY REMOVED AND PROPERLY TREATED OR PROPERLY DISPOSED OF, OR OTHERWISE REMEDIATED, SO THAT NO CONTAMINATION FROM THE DISCHARGE REMAINS ON-SITE. SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO THE 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.

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

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

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

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

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

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

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

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

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

TEMPORARY SEEDING

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

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

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

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

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

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

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

MULCH

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

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

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

DUST CONTROL NOTES

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

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

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

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Akron, OH 44311
330.572.2100 Fax: 330.572.2102

1	06.14.21	ISSUED FOR BID
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CONTRACT DATE:	-
BUILDING TYPE:	ENDEAVOR XS-6
PLAN VERSION:	-
BRAND DESIGNER:	
SITE NUMBER:	313798
STORE NUMBER:	2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

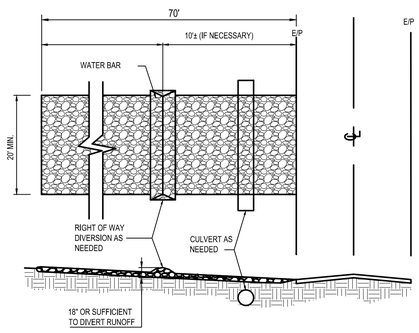
SWPP
PLAN NOTES

C-010

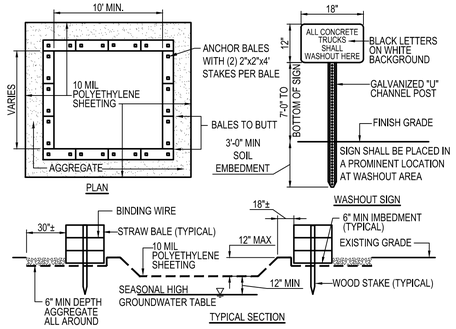
PLOT DATE: 6-14-21

CONSTRUCTION ENTRANCE NOTES

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



A1 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



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

A2 CONCRETE WASHOUT AREA
N.T.S.

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

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

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

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

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

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

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

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

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

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

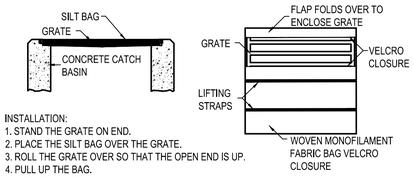
11) WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

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

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

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

MAINTENANCE:
SILT FENCE SHOULD BE INSPECTED REGULARLY AND FREQUENTLY AS WELL AS AFTER EACH RAINFALL EVENT TO 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.

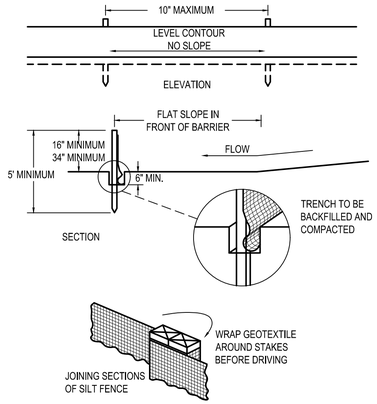


INSTALLATION:
1. STAND THE GRATE ON END.
2. PLACE THE SILT BAG OVER THE GRATE.
3. ROLL THE GRATE OVER SO THAT THE OPEN END IS UP.
4. PULL UP THE BAG.
5. TUCK THE FLAP IN.
6. PRESS THE VELCRO STRAPS TOGETHER.
7. BE SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP OR THE SILT BAG WILL NOT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

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

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

A3 SILT BAG PROTECTION
N.T.S.



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

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

A4 SILT FENCE
N.T.S.

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TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

SWPP
PLAN DETAILS

C-011

PLOT DATE: 6-14-21

BENCHMARKS:
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED. ELEVATIONS ARE NAVD 88 DATUM.

BENCHMARK #1 - PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE.
ELEVATION=586.83'

BENCHMARK #2 - SOUTHEAST BOLT ON LIGHT POLE.
ELEVATION=587.15'

BENCHMARK #3 - MAG NAIL IN LIGHT POLE. (NOT SHOWN ON PLAN, SEE ALTA SURVEY FOR LOCATION)
ELEVATION=589.40'

MISS DIG 811

NOTE:
CONTRACTOR TO INSTALL NEW SILT FENCE ALONG THE PROPOSED SIDEWALK (ON STREET SIDE) DURING SIDEWALK REMOVAL / REPLACEMENT.

N

0 10
5 1"=10' 20
Horizontal Scale in Feet

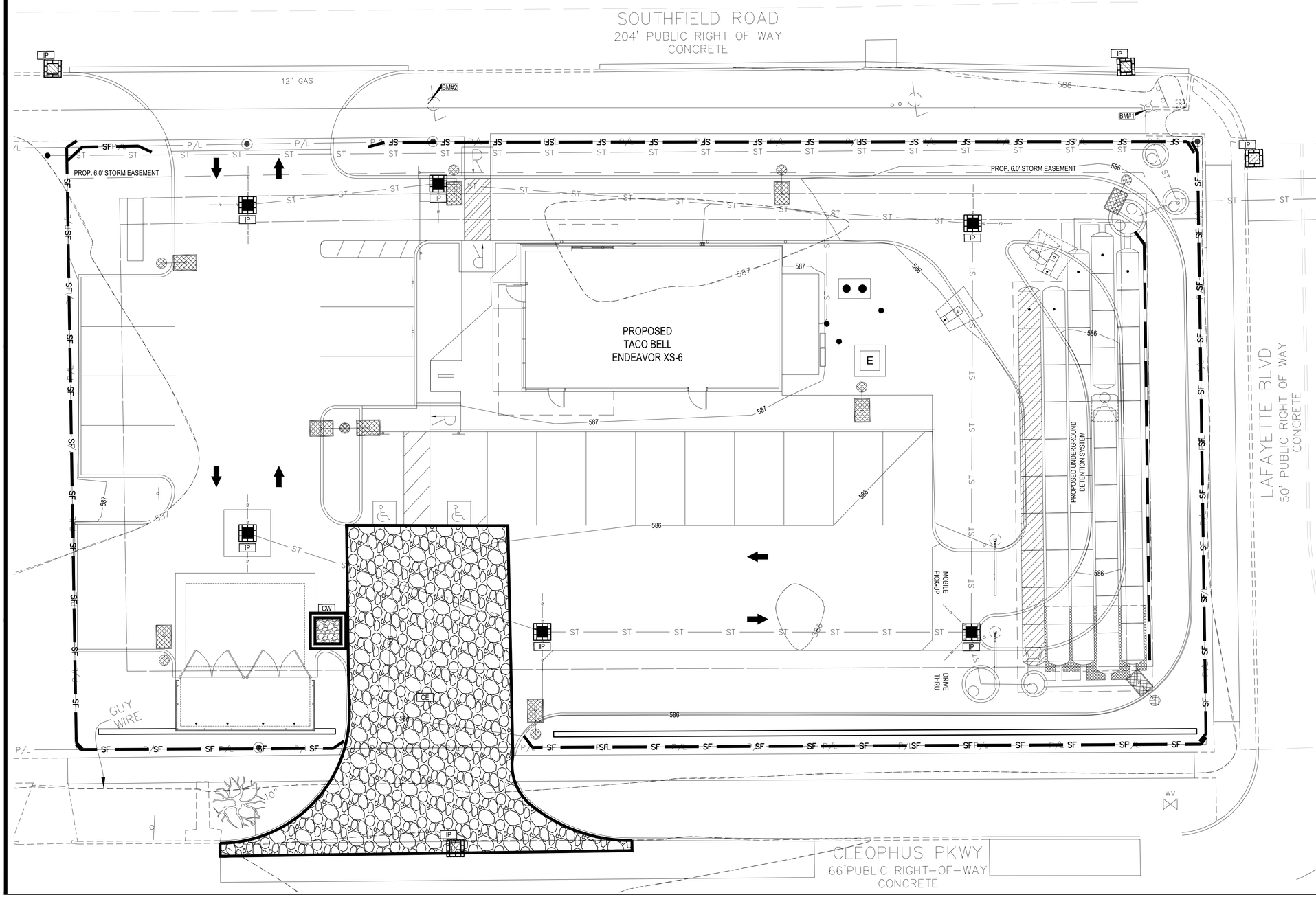
LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

- PROPOSED SILT BAG PROTECTION REFER TO SWPP DETAILS
- SF — PROPOSED SILT FENCE REFER TO SWPP DETAILS
- PROPOSED CONSTRUCTION ENTRANCE REFER TO SWPP DETAILS
- PROPOSED CONCRETE WASHOUT FACILITY REFER TO SWPP DETAILS

SWPP KEYNOTES

- CW CONCRETE WASHOUT AREA
- CE CONSTRUCTION ENTRANCE
- IP INLET PROTECTION



CONSTRUCTION SEQUENCE

1. DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED. A GENERAL CONSTRUCTION SEQUENCE FOLLOWS AND MAY NEED TO BE UPDATED BY THE CONTRACTOR TO SUIT THE SPECIFICS OF THE SITE AND INTENDED CONTRACTOR SPECIFIC SEQUENCING.
1.1. INSTALL CONSTRUCTION ENTRANCE AS DETAILED ON PLANS. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED AROUND PERIMETER OF CONSTRUCTION SITE. WHERE THERE IS EXISTING FENCE ALONG THE PERIMETER OF THE SITE, IT CAN BE UTILIZED. FENCING SHALL BE USED TO RESTRICT OUTSIDE TRAFFIC TO SITE.
1.2. DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
1.3. STAKE AND/OR FLAG LIMITS OF CLEARING.
1.4. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL SILT PERIMETER CONTROLS AS SHOWN ON PLANS. SILT PERIMETER CONTROLS SHALL BE INSTALLED LEVEL, ALONG THE CONTOURS, WITH ENDS TURNED UPSLOPE TO PREVENT CONCENTRATED FLOW AT THE SILT PERIMETER CONTROLS.
1.5. INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
1.6. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF TEMPORARY SEDIMENT TRAP/BASIN. INSTALL TEMPORARY SEDIMENT TRAP/BASIN, IF REQUIRED, AS DETAILED IN THE PLANS. CONSTRUCT AND MAINTAIN TEMPORARY DIVERSION SWALE AND / OR DIVERSION BERM DURING FILLING & GRADING ACTIVITIES.
1.7. CLEAR & GRUB THE REMAINING SITE AS NECESSARY. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR REUSE, OR REMOVED TO AN APPROVED OFFSITE SPOIL AREA.
1.8. UTILIZE DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE AIR-BORNE POLLUTION BY METHODS APPROVED BY THE AUTHORIZING EPA OFFICE.
1.9. BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
1.10. ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION.
1.11. CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES. UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
1.12. DO NOT REPLACE ANY TOPSOIL, SEED OR INSTALL FINAL PAVEMENT PRIOR TO COMPLETION OF BUILDING SHELL. SHOULD SITEWORK BE COMPLETED PRIOR TO THIS DATE, MULCH DISTURBED AREAS TO BE PLANTED AND INSTALL STONE SUBBASE IN DISTURBED AREAS TO BE PAVED.
1.13. FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION, BEGIN LANDSCAPE INSTALLATION.
1.14. COMPLETE SITEWORK, PAVEMENT MARKINGS AND FINAL CLEAN-UP. RESEED ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A MINIMUM 80% VEGETATIVE DENSITY HAS BEEN ACHIEVED.
1.15. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED. ALL AREAS OF VEGETATIVE SURFACE, WHETHER PERMANENT OR TEMPORARY, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.
1.16. REMOVE SEDIMENT CONTROLS.

PROJECT DESCRIPTION

THE EXISITNG SITE IS A VACANT LOT WITH A MIX OF GRASS COVER AND ASPHALT PARKING LOT. THE ENTIRE PARKING LOT WILL BE DEMOLISHED AND IS PROPOSED TO BE DEVELOPED INTO A NEW TACO BELL RESTAURANT, DRIVE-THRU, PARKING LOT AND DUMPSTER ENCLOSURE. AN UNDERGROUND STORMWATER MANAGEMENT SYSTEM WILL BE INSTALLED AND WATER QUALITY WILL BE MANAGED VIA MANUFACTURED PRETREATMENT UNIT. THE EXISTING STORMWATER DRAINAGE FLOWS INTO THE MUNICIPAL SEWERS OF THE CURRENT CITY AND PROPOSED DETENTION WILL BE DISCHARGED TO THE SAME SEWER SYSTEM.

PROJECT COMPLETION STATISTICS

PARCEL SIZE :	0.58 ACRES
TOTAL DISTURBED AREA:	0.58 ACRES
EXISTING LAND USE FOR THE SITE IS VACANT.	
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS AREA:	0.38 ACRES
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS PERCENT:	65.5%
PRE-CONSTRUCTION RUN-OFF COEFFICIENT:	0.69
PROPOSED LAND USE WILL BE A TACO BELL.	
ESTIMATED POST-CONSTRUCTION IMPERVIOUS AREA:	0.45 ACRES
ESTIMATED POST-CONSTRUCTION IMPERVIOUS PERCENT:	77.5%
POST-CONSTRUCTION RUN-OFF COEFFICIENT:	0.84

PROJECT LOCATION:
LATITUDE 42.251433° LONGITUDE -83.182697°

EXISTING SITE SOIL TYPES:
UrbanB: URBAN LAND-RIVERFRONT COMPLEX, DENSE SUBSTRATUM. 0 TO 4 PERCENT SLOPES.
ZfsuaA: ZIEGENFUSS-URBAN LAND COMPLEX, 0 TO 2 PERCENT SLOPES.
REFERENCE: USDA NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

WETLAND INFORMATION:
THERE ARE NO KNOWN WETLANDS ON THIS SITE.

FIRST AND SUBSEQUENT RECEIVING STREAM:
INITIAL RECEIVING WATER IS CITY STORM SEWER AND THE SUBSEQUENT RECEIVING WATER IS ECORSE RIVER.

POST CONSTRUCTION WQv / BMP DESCRIPTION
IN ORDER TO MEET THE STORMWATER RUNOFF REQUIREMENTS FOR WAYNE COUNTY TO HAVE A MAXIMUM OF 0.15 CFS PER ACRE POST DEVELOPMENT RUNOFF FROM THE SITE, A SINGLE UNDERGROUND DETENTION SYSTEM CONSISTING OF 53 STORMTECH CHAMBERS (SC-740) WILL BE INSTALLED UNDER THE PROPOSED PARKING LOT. THE STORMWATER RUNOFF WILL COLLECT INTO A SERIES OF CATCH BASINS AND ROUTE TO A PRECAST PRETREATMENT STRUCTURE TO ADDRESS WATER QUALITY REQUIREMENTS AND ULTIMATELY ROUTED TO THE DETENTION SYSTEM. THE REQUIRED RESTRICTED FLOW WILL EXIT THE DETENTION SYSTEM TO THE CITY OF LINCOLN PARK STORM SEWER SYSTEM.

OWNER CONTACT: PETE ZINGAS
18400 TARA DRIVE,
CLINTON TOWNSHIP, MI 48036

ANTICIPATED TIMING:
CONSTRUCTION BEGIN: T.B.D
CONSTRUCTION COMPLETE: T.B.D.
CONTRACTOR: T.B.D. _____
CONTACT: _____
PHONE NUMBER: _____

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

GPD GROUP
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520 South Main Street, Suite 2531
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SWPP
PLAN

C-012

PLOT DATE: 6-14-21

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MISS DIG 811

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

- EXISTING CONCRETE TO BE REMOVED. SEE NOTE BELOW. (ALL SAWCUTS SHALL BE TO THE NEAREST JOINT)
- EXISTING ASPHALT TO BE REMOVED
- ##L.F.± — DENOTES LIMITS OF SAWCUT
- (#) — DEMOLITION KEYNOTE

NOTE:
CONTRACTOR SHALL MINIMIZE SIDEWALK CLOSURE AND SHALL PROVIDE THE APPROPRIATE BARRICADES AND DETOUR IN ACCORDANCE WITH THE CITY'S REQUIREMENTS.

N

0 5 10 20
1"=10'
Horizontal Scale in Feet

PLAN KEYNOTES (#)

1. EXISTING CURB / CURB AND GUTTER TO BE REMOVED.
2. EXISTING CONCRETE / ASPHALT PAVEMENT TO BE REMOVED.
3. EXISTING SIGNAGE TO BE REMOVED.
4. EXISTING WALK TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. REMOVE AND REPLACE ANY DAMAGED WALK AREAS.
5. EXISTING STORM PIPE TO BE REMOVED UP TO PROPERTY LINE. REMAINING STORM SEWER SHALL BE BULKHEAD IN THE STORM SEWER STRUCTURE (CB 2006) AND MUST BE FLOWABLE FILLED. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF LINCOLN PARK STANDARDS AND SPECIFICATIONS.
6. EXISTING STORM PIPE TO BE REMOVED FULL LENGTH. (A)
7. EXISTING RECENTLY REPLACED CITY CURB RAMP TO REMAIN.

DEMOLITION NOTE:

1. 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.
2. COMPLETELY REMOVE BELOW-GRADE DEMOLITION, INCLUDING FOUNDATION WALLS FOOTINGS, AND BELOW GRADE STRUCTURAL SLABS.

EXISTING STRUCTURES

STRCT. ID	STRUCTURE DETAILS
CB 2000	EXISTING CURB INLET (SEE UTILITY PLAN) RIM=586.34' INV. 12" CONC, NE=582.54' INV. 12" CONC, SE=582.39'
CB 2001	EXISTING CATCH BASIN RIM=585.57' INV. 12" CONC, SE=582.07' INV. 12" CONC, NW=582.17'
ST 2002	EXISTING STORM SEWER MANHOLE RIM=585.45' INV. 12" W=581.55' INV. 10" SW=581.35' INV. 15" N=579.05' INV. 15" S=579.05' INV. 10" SE=581.80'
CB 2003	EXISTING CATCH BASIN RIM=585.10' INV. 10" CONC, NE=581.70'
ST 2004	EXISTING STORM SEWER MANHOLE RIM=586.13' INV. 15" CONC, NE=579.38' INV. 15" CONC, SW=580.13' INV. 10" CLAY, NW=581.03'
ST 2005	EXISTING STORM SEWER MANHOLE RIM=586.16' INV. 15" CONC, NE=580.06' INV. 15" CONC, SW=580.11'
CB 2006	EXISTING CATCH BASIN (SEE UTILITY PLAN) RIM=584.53' INV. 8" PVC, S=582.38' INV. 6" PVC, NE=582.48'
CB 2007	EXISTING CATCH BASIN(TO BE REMOVED) RIM=586.65' INV. 4" CLAY, NW=584.95' INV. 4" CONC, NE=585.00'
CB 2008	EXISTING CATCH BASIN (TO BE REMOVED) RIM=585.95' INV. 6" CLAY, SW=584.15'

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(A)	05.24.21	NTP/ENGINEERING REVISIONS
(A)	06.14.21	ISSUED FOR BID

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Lincoln Park, MI 48146

TACO BELL
END XS6

DEMOLITON PLAN

C-101

PLOT DATE: 6-14-21

BENCHMARKS:
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED. ELEVATIONS ARE NAVD 88 DATUM.

BENCHMARK #1 - PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE.
ELEVATION=586.83'

BENCHMARK #2 - SOUTHEAST BOLT ON LIGHT POLE.
ELEVATION=587.15'

BENCHMARK #3 - MAG NAIL IN LIGHT POLE. (NOT SHOWN ON PLAN, SEE ALTA SURVEY FOR LOCATION)
ELEVATION=589.40'

MISS DIG 811

BUILDING SETBACKS	REQUIRED	PROVIDED
FRONT: CLEOPHUS	15'	68.4'
REAR: SOUTHFIELD	15'	19.7'
SIDE: LAFAYETTE	15'	73.0'
SIDE: WEST	0'	86.6'

PARKING SETBACKS	REQUIRED	PROVIDED
FRONT: CLEOPHUS	15'	6.1'
REAR: SOUTHFIELD	10'	6.5'
SIDE: LAFAYETTE	10'	2.5'
SIDE: WEST	0'	1.2'

LANDSCAPE SETBACKS	REQUIRED	PROVIDED
FRONT: CLEOPHUS	15'	6.1'
REAR: SOUTHFIELD	10'	6.5'
SIDE: LAFAYETTE	10'	2.5'
SIDE: WEST	0'	1.2'

PARKING SPACES	REQUIRED	PROVIDED
NUMBER OF SPACES	15	18
PARKING REQUIREMENTS		
1 SPACE PER 2 SEATS, PLUS 1 PER EVERY 15 SF OF USABLE CUSTOMER AREA, PLUS 1 PER EVERY 2 EMPLOYEES, PLUS ONE FOR CUSTOMER SERVICE STALL AREA		
THEREFORE: 6 SEATS / 2 = 3 STALLS + 86 SF OF USABLE AREA / 15 = 6 STALLS; 9 EMPLOYEES / 2 = 5 STALLS; PLUS 1 = 15 SPACES REQUIRED.		

LAND USE DATA	% OF SITE AREA	AREA PROVIDED
BUILDING	6.9%	0.04 AC.
PAVEMENT/IMPERVIOUS	69.0%	0.40 AC.
LANDSCAPING	24.1%	0.14 AC.
TOTAL	100%	0.58 AC.

NOTE:
1. ALL WORK WITHIN THE RIGHT OF WAY LIMITS SHALL BE PER MDOT STANDARDS AND SPECIFICATIONS.
2. FIRE ACCESS WILL BE FROM CLEOPHUS PARKWAY.
3. ANY BROKEN, CRACKED, OR UNSAFE SIDEWALKS IN THE RIGHTS-OF- WAY AND ONSITE MUST BE REPAIRED.
4. ALL FINAL PAVEMENT THICKNESS SHALL BE PER GEOTECHNICAL REPORT.

CURRENT ZONING:
MUNICIPAL BUSINESS DISTRICT

SOUTHFIELD ROAD
204' PUBLIC RIGHT OF WAY
CONCRETE

PROPOSED FULL DEPTH PAVEMENT TO MATCH IN KIND AND PER MDOT STANDARDS AND SPECIFICATIONS AND SHALL BE REPLACED TO THE NEAREST JOINT.

RIM585.68

SMH2

SMH1

PROP. 6.0' STORM EASEMENT

10' SIGN/LANDSCAPE SETBACK

15' BUILDING SETBACK

10' LANDSCAPING SETBACK

15' BUILDING/LANDSCAPING SETBACK

PROPOSED TACO BELL ENDEAVOR XS-6

50.0' LOADING ZONE LENGTH (AREA FOR REFERENCE ONLY - NOT TO BE PAINTED)

MOBILE PICK-UP

DRIVE THRU

LAFAYETTE BLVD
50' PUBLIC RIGHT OF WAY
CONCRETE

CLEOPHUS PKWY
66'PUBLIC RIGHT-OF-WAY
CONCRETE

NOTES:
ALL ROOFTOP AND GROUND MOUNTED MECHANICAL AND ELECTRICAL EQUIPMENT WILL BE SCREENED.

N

0 5 10 20
1"=10"
Horizontal Scale in Feet

PLAN KEYNOTES

1. PROPOSED P.C.C. CURB & GUTTER (REVERSE PITCHED), SEE SHEET C-501.
2. PROPOSED CURB AT DRIVE THRU, SEE SHEET C-501 △1
3. NOT USED. △1
4. PROPOSED P.C.C. WALK, SEE SHEET C-501.
5. PROPOSED 6" P.C.C. PAVEMENT W/ W.W.F. 6" x 6"-W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER 6" CRUSHED AGGREGATE BASE STONE (MDOT 21AA). ALL CURB SHALL BE INSTALLED INTEGRAL WITH CONCRETE PAVEMENT, APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT. △1
6. PROPOSED BOLLARD IN CURB, SEE SHEET C-501.
7. PROPOSED HANDICAPPED PARKING SIGN, SEE SHEET C-501.
8. PROPOSED LANDSCAPING AREA. SOD ALL DISTURBED AREAS EXCEPT WHERE PLANTING BEDS ARE INDICATED.
9. PROPOSED 'DO NOT ENTER' SIGN PER MDOT STANDARDS, SEE SHEET C-501.
10. PROPOSED PAINTED 4" WIDE SOLID STRIPE - WHITE ON ASPHALT, YELLOW ON CONCRETE.
11. PROPOSED 8' O.A.H., 70 S.F. MONUMENT SIGN PER SIGN SUPPLIER SPECIFICATIONS.
12. PROPOSED FROST SLAB AT DOOR, SEE STRUCTURAL PLANS FOR DETAILS.
13. PROPOSED 6 FEET HIGH MASONRY SCREEN WALL, SEE STRUCTURAL PLANS FOR DETAILS.
14. PROPOSED EVOLUTION PORTAL CLEARANCE BAR, SEE SHEET C-502.
15. PROPOSED MENU BOARD AND ORDER CONFIRMATION BOARD PER SIGN SUPPLIER SPECIFICATIONS, SEE SHEET C-502.
16. PROPOSED CROSS ACCESS/ TEMP ASPHALT CURB.
17. PROPOSED DUMPSTER ENCLOSURE ON P.C.C. PAD. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
18. PROPOSED CURB / CURB AND GUTTER PER MDOT STANDARDS (MATCH IN KIND), SEE SHEET C-112.
19. PROPOSED COMMERCIAL DRIVE APRON PER MDOT STANDARDS, SEE SHEET C-112.
20. PROPOSED BIKE RACK, SEE SHEET C-501.
21. PROPOSED SIDEWALK PER MDOT STANDARDS AND SPECIFICATIONS, SEE SHEET C-112.
22. PROPOSED CURB TAPER, SEE SHEET C-501.
23. PROPOSED CONCRETE COLLAR, SEE SHEET C-503.
24. PROPOSED FLUSHED CURB, SEE SHEET C-503.
25. PROPOSED CONCRETE PAVEMENT SECTION, 8" PLAIN CONCRETE OVER 8" COMPACTED 21AA LIMESTONE AND SHALL BE SAWCUT TO THE NEAREST JOINT AS DIRECTED BY THE CITY ENGINEER. THE PAVEMENT SECTION ON LAFAYETTE BLVD. SHALL HAVE AN ASPHALT CAP TO MATCH THE EXISTING PAVEMENT SURFACE. ALL JOINTS WILL NEED TO BE SEALED AS DIRECTED BY THE CITY ENGINEER.
26. PROPOSED SIDEWALK PER CITY OF LINCOLN PARK STANDARDS AND SPECIFICATIONS.
27. PROPOSED DIRECTIONAL SIGN, PER SIGN VENDOR SPECIFICATIONS.
28. PROPOSED "MOBILE PICK UP" PARKING SIGNS IN BOLLARD. CONTRACTOR TO INSTALL SIGN POST AND BOLLARD PER THE ADA PARKING SIGN DETAIL. SIGN TO BE PROVIDED BY SIGN VENDOR. △2
29. PROPOSED DIGITAL PREVIEW BOARD PER SIGN SUPPLIER SPECIFICATIONS. SIGN SUPPLIER TO PROVIDE A TEMPLATE FOR G.C. G.C. TO COORDINATE A MEETING WITH THE CONSTRUCTION/PROJECT MANAGER AND OPERATIONS TO VERIFY LOCATION AND PLACEMENT OF DIGITAL PREVIEW BOARD PRIOR TO ANY CONSTRUCTION. SIGN SUPPLIER SHALL PROVIDE G.C. WITH FOUNDATION DETAILS. G.C. IS RESPONSIBLE FOR SIGN FOUNDATIONS/ELECTRICAL.
30. PROPOSED SPEAKER POST AND CANOPY PER SIGN SUPPLIER SPECIFICATIONS AND SHEET C-502. SIGN SUPPLIER TO PROVIDE A TEMPLATE FOR G.C. G.C. TO COORDINATE A MEETING WITH THE CONSTRUCTION/PROJECT MANAGER AND OPERATIONS TO VERIFY LOCATION AND PLACEMENT OF SPEAKER POST AND CANOPY PRIOR TO ANY CONSTRUCTION. SIGN SUPPLIER SHALL PROVIDE G.C. WITH FOUNDATION DETAILS. G.C. IS RESPONSIBLE FOR SIGN FOUNDATIONS/ELECTRICAL.

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

- PROPOSED LIGHT DUTY ASPHALT PER ASPHALT PAVEMENT TABLE (SEE SHEET C-501).
- PROPOSED HEAVY DUTY ASPHALT PER ASPHALT PAVEMENT TABLE (SEE SHEET C-501).
- PROPOSED CONCRETE
- PROPOSED PAINTED TRANSVERSE STRIPING (SEE SHEET C-501).
- PROPOSED PAINTED CROSSWALK STRIPING (SEE SHEET C-501).
- (#) CONSTRUCTION KEYNOTE
- (00) PROPOSED PARKING SPACE NUMBER
- (00) PROPOSED DRIVE THRU STACK CAR AND NUMBER
- PROPOSED DIRECTIONAL PAVEMENT MARKINGS - WHITE ON ASPHALT, YELLOW ON CONCRETE (SEE SHEET C-501)
- PROPOSED PAINTED INTERNATIONAL ADA SYMBOL PER ADA SPECIFICATIONS (SEE SHEET C-501)
- PROPOSED ADA ACCESSIBLE RAMP PER ADA SPECIFICATIONS (SEE SHEET C-501).
- (E) PROPOSED UTILITY STRUCTURES. REFER TO UTILITY PLAN FOR MORE INFORMATION.

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Akron, OH 44311
330.572.2100 Fax: 330.572.2102

△1	05.24.21	NTP/ENGINEERING REVISIONS
△2	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

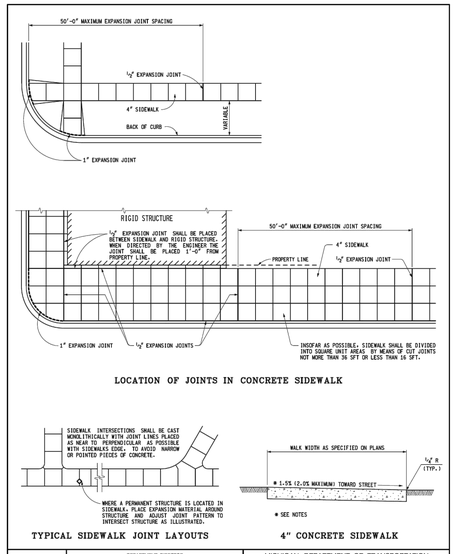
TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

SITE PLAN

C-111

PLOT DATE: 6-14-21



PREPARED BY DESIGN DIVISION
DRAWN BY: R.L.T.
CHECKED BY: K.T.T.

DEPARTMENT DIRECTOR
Kirk T. Steudle

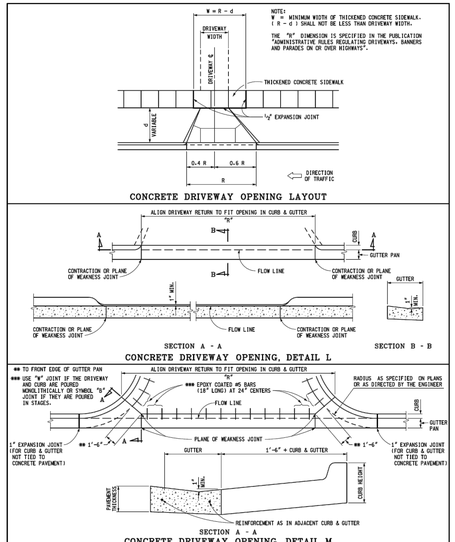
APPROVED BY: Randy V. Roffell — DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: Mark A. Van Port Fleet — DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK

9-30-2014 F.H.W.A. APPROVAL	7-1-2014 PLAN DATE	R-29-I	SHEET 1 OF 4

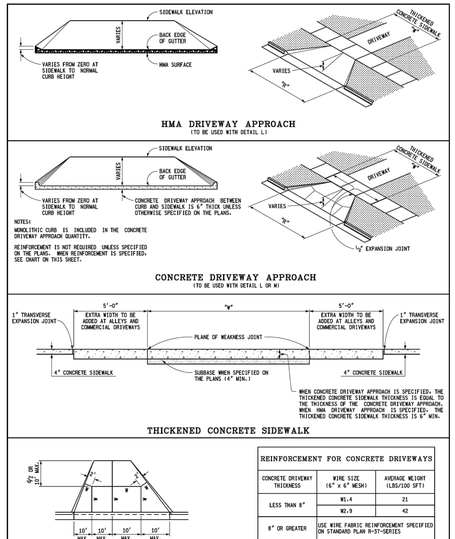


NOTE:
FOR ROADWAYS WITH CONCRETE PAVEMENTS, LONGITUDINAL LANE TIES WILL BE CONTINUOUS THROUGH THE DRIVEWAY OPENING AND THE SPACING OF THE #5 BARS IN CONCRETE DRIVEWAYS SHALL BE ADJUSTED TO AVOID CONFLICT WITH THE LONGITUDINAL LANE TIES.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK

9-30-2014 F.H.W.A. APPROVAL	7-1-2014 PLAN DATE	R-29-I	SHEET 2 OF 4

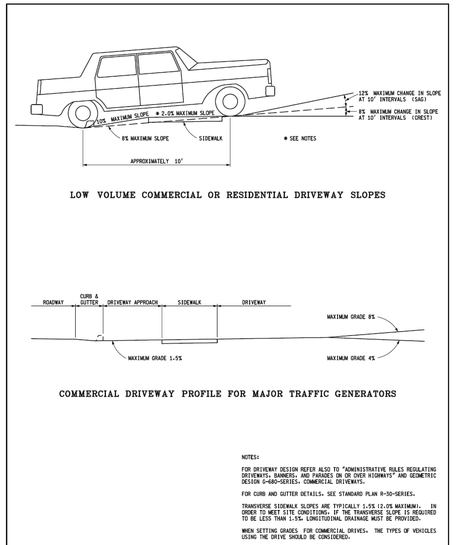


REINFORCEMENT FOR CONCRETE DRIVEWAYS		
CONCRETE DRIVEWAY THICKNESS	WIRE SIZE (6" x 6" MESH)	AVERAGE WEIGHT (LBS/100 SFT)
LESS THAN 8"	W1.4	21
	W2.9	42
8" OR GREATER	USE WIRE FABRIC REINFORCEMENT SPECIFIED ON STANDARD PLAN R-37-SERIES	

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK

9-30-2014 F.H.W.A. APPROVAL	7-1-2014 PLAN DATE	R-29-I	SHEET 3 OF 4



NOTES:

FOR DRIVEWAY DESIGN REFER ALSO TO "ADMINISTRATIVE RULES REGULATING DRIVEWAYS, BANNERS, AND PARADES ON OR OVER HIGHWAYS" AND GEOMETRIC DESIGN G-60-SERIES. COMMERCIAL DRIVEWAYS.

FOR CURB AND GUTTER DETAILS, SEE STANDARD PLAN R-30-SERIES.

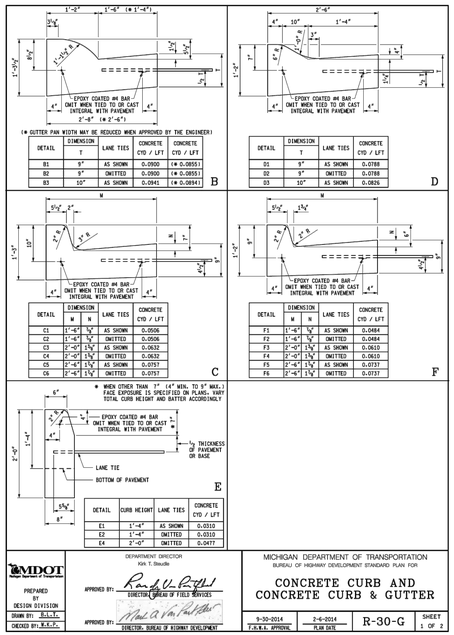
TRANSVERSE SIDEWALK SLOPES ARE TYPICALLY 1.5% (2.0% MAXIMUM). IN ORDER TO MEET SITE CONDITIONS, IF THE TRANSVERSE SLOPE IS REQUIRED TO BE LESS THAN 1.5% LONGITUDINAL DRAINAGE MUST BE PROVIDED.

WHEN SETTING GRADES FOR COMMERCIAL DRIVES, THE TYPES OF VEHICLES USING THE DRIVE SHOULD BE CONSIDERED.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK

9-30-2014 F.H.W.A. APPROVAL	7-1-2014 PLAN DATE	R-29-I	SHEET 4 OF 4



DETAIL	DIMENSION T	LANE TIES	CONCRETE CYD / LFT
B1	9"	AS SHOWN	0.0900 (♦ 0.0855)
B2	9"	OMITTED	0.0900 (♦ 0.0855)
B3	10"	AS SHOWN	0.0941 (♦ 0.0894)

DETAIL	DIMENSION T	LANE TIES	CONCRETE CYD / LFT
D1	9"	AS SHOWN	0.0788
D2	9"	OMITTED	0.0788
D3	10"	AS SHOWN	0.0826

DETAIL	DIMENSION W	N	LANE TIES	CONCRETE CYD / LFT
C1	1'-6"	⅝"	AS SHOWN	0.0506
C2	1'-6"	⅝"	OMITTED	0.0506
C3	2'-0"	1¼"	AS SHOWN	0.0632
C4	2'-0"	1¼"	OMITTED	0.0632
C5	2'-6"	1¼"	AS SHOWN	0.0757
C6	2'-6"	1¼"	OMITTED	0.0757

DETAIL	DIMENSION W	N	LANE TIES	CONCRETE CYD / LFT
F1	1'-6"	⅝"	AS SHOWN	0.0484
F2	1'-6"	⅝"	OMITTED	0.0484
F3	2'-0"	1¼"	AS SHOWN	0.0610
F4	2'-0"	1¼"	OMITTED	0.0610
F5	2'-6"	1¼"	AS SHOWN	0.0737
F6	2'-6"	1¼"	OMITTED	0.0737

DETAIL	CURB HEIGHT	LANE TIES	CONCRETE CYD / LFT
E1	1'-6"	AS SHOWN	0.0310
E2	1'-6"	OMITTED	0.0310
E4	2'-0"	OMITTED	0.0477

DEPARTMENT DIRECTOR
Kirk T. Steudle

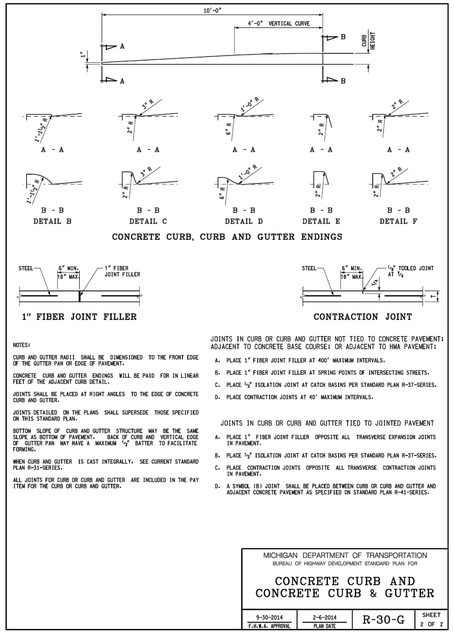
APPROVED BY: Randy V. Roffell — DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: Mark A. Van Port Fleet — DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

CONCRETE CURB AND CONCRETE CURB & GUTTER

9-30-2014 F.H.W.A. APPROVAL	2-6-2014 PLAN DATE	R-30-G	SHEET 1 OF 2



NOTES:

CURB AND GUTTER RADII SHALL BE DIMENSIONED TO THE FRONT EDGE OF THE GUTTER PAN OR EDGE OF PAVEMENT.

CONCRETE CURB AND GUTTER ENDINGS WILL BE PAID FOR IN LINEAR FEET OF THE ADJACENT CURB DETAIL.

JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF CONCRETE CURB AND GUTTER.

JOINTS DETAILED ON THE PLANS SHALL SUPERSEDE THOSE SPECIFIED ON THIS STANDARD PLAN.

BOTTOM SLOPE OF CURB AND GUTTER STRUCTURE MAY BE THE SAME SLOPE AS BOTTOM OF PAVEMENT. BACK OF CURB AND VERTICAL EDGE OF GUTTER PAN MAY HAVE A MAXIMUM ½" BATTER TO FACILITATE FORMING.

WHEN CURB AND GUTTER IS CAST INTEGRALLY, SEE CURRENT STANDARD PLAN M-31-SERIES.

ALL JOINTS FOR CURB OR CURB AND GUTTER ARE INCLUDED IN THE PAY ITEM FOR THE CURB OR CURB AND GUTTER.

JOINTS IN CURB OR CURB AND GUTTER NOT TIED TO CONCRETE PAVEMENT: ADJACENT TO CONCRETE BASE COURSE: OR ADJACENT TO HMA PAVEMENT:

A. PLACE 1" FIBER JOINT FILLER AT 400' MAXIMUM INTERVALS.
B. PLACE 1" FIBER JOINT FILLER AT SPRING POINTS OF INTERSECTING STREETS.
C. PLACE ½" ISOLATION JOINT AT CATCH BASINS PER STANDARD PLAN R-37-SERIES.
D. PLACE CONTRACTION JOINTS AT 40' MAXIMUM INTERVALS.

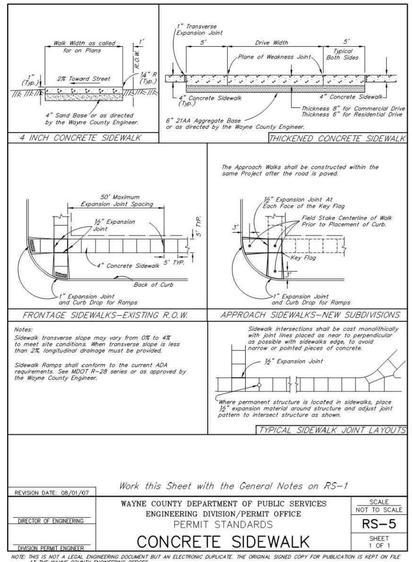
JOINTS IN CURB OR CURB AND GUTTER TIED TO JOINTED PAVEMENT

A. PLACE 1" FIBER JOINT FILLER OPPOSITE ALL TRANSVERSE EXPANSION JOINTS IN PAVEMENT.
B. PLACE ½" ISOLATION JOINT AT CATCH BASINS PER STANDARD PLAN R-37-SERIES.
C. PLACE CONTRACTION JOINTS OPPOSITE ALL TRANSVERSE CONTRACTION JOINTS IN PAVEMENT.
D. A SYMBOL (B) JOINT SHALL BE PLACED BETWEEN CURB OR CURB AND GUTTER AND ADJACENT CONCRETE PAVEMENT AS SPECIFIED ON STANDARD PLAN R-41-SERIES.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

CONCRETE CURB AND CONCRETE CURB & GUTTER

9-30-2014 F.H.W.A. APPROVAL	2-6-2014 PLAN DATE	R-30-G	SHEET 2 OF 2



Work this Sheet with the General Notes on RS-1

REVISION DATE: 08/01/07
DIRECTOR OF ENGINEERING
DIVISION PERMIT ENGINEER

WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES
ENGINEERING DIVISION/PERMIT OFFICE
PERMIT STANDARDS

CONCRETE SIDEWALK

SCALE: NOT TO SCALE
RS-5
SHEET 1 OF 1

NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICES.

THESE DETAILS HAS NOT BEEN REVIEWED BY THE STAMPING PARTY. THEREFORE, THE STAMPING PARTY MAKES NO REPRESENTATION(S) WITH RESPECT TO ITS CONTENTS, AND SHALL NOT BE LIABLE FOR SUCH. THESE DETAILS ARE FOR REFERENCE ONLY. ANY RELIANCE ON THESE DETAILS SHALL BE AT THE RELYING PARTY(IES)'S OWN RISK AND HEREBY WAIVES ANY AND ALL CLAIM(S) RELATED TO THE EXISTENCE OF THE STAMP OR OTHERWISE.

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

FOR REFERENCE ONLY

1	06.14.21	ISSUED FOR BID
2		
3		
4		
5		
6		
7		
8		
9		

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

END XS6

MDOT DETAILS AND WAYNE COUNTY DETAILS

C-112

PLOT DATE: 6-14-21

BENCHMARKS:
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED. ELEVATIONS ARE NAVD 88 DATUM.

BENCHMARK #1 - PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE.
ELEVATION=586.83'

BENCHMARK #2 - SOUTHEAST BOLT ON LIGHT POLE.
ELEVATION=587.15'

BENCHMARK #3 - MAG NAIL IN LIGHT POLE. (NOT SHOWN ON PLAN, SEE ALTA SURVEY FOR LOCATION)
ELEVATION=589.40'

MISS DIG 811

N

0 10
5 1"=10' 20
Horizontal Scale in Feet

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

- 000 - EXISTING CONTOUR
- 000 PROPOSED CONTOUR
- XXX.XX+ EXISTING SPOT ELEVATION/ MATCH EXISTING GRADE
- XXX.XX PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
- T=XXX.XX / B=XXX.XX TOP OF CURB ELEVATION / BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
- 0.0% PROPOSED DRAINAGE SLOPE & DIRECTION

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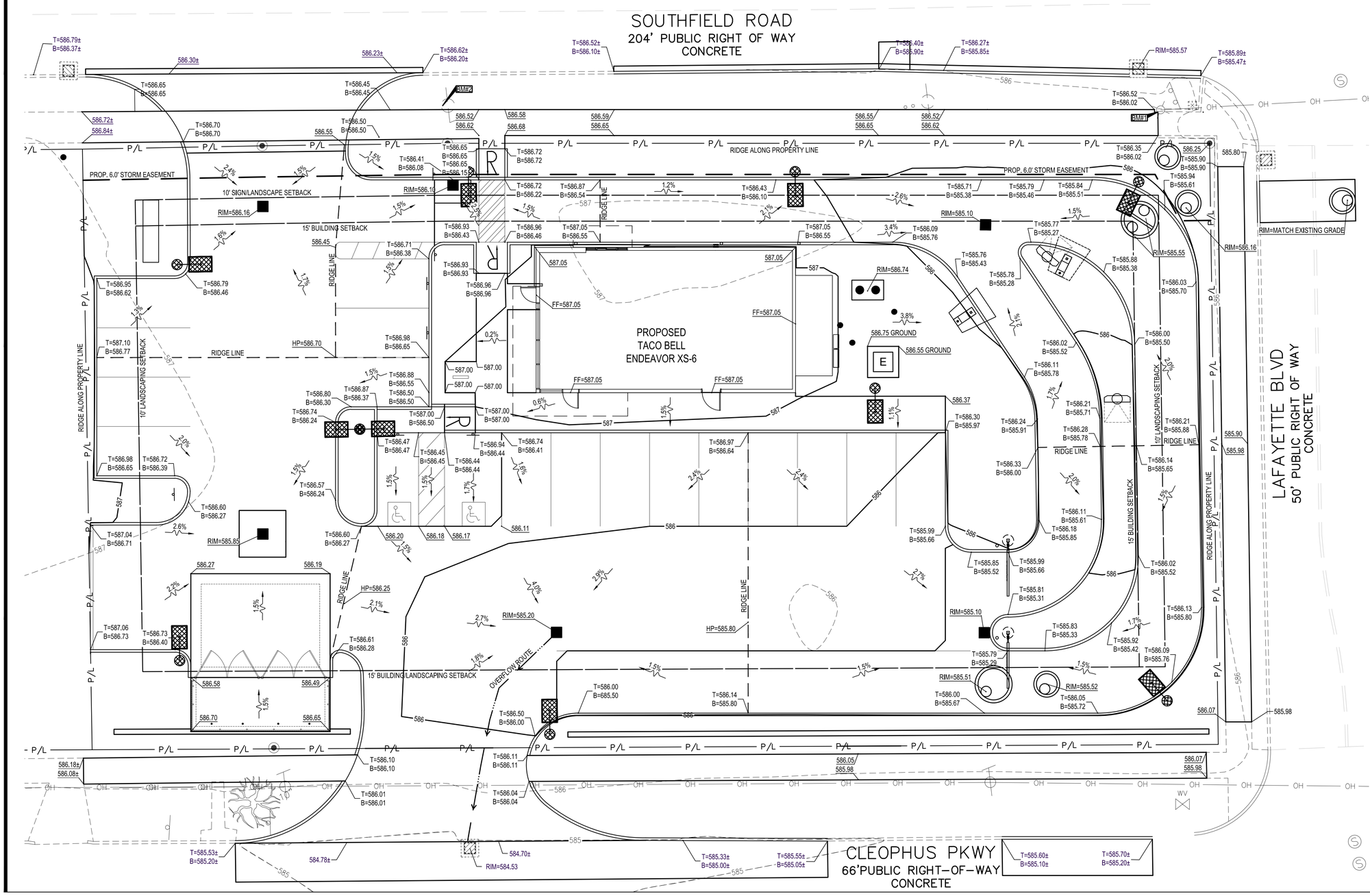


1	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

GRADING PLAN

C-121

PLOT DATE: 6-14-21

BENCHMARKS:
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED. ELEVATIONS ARE NAVD 88 DATUM.

BENCHMARK #1 - PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE.
ELEVATION=586.83'

BENCHMARK #2 - SOUTHEAST BOLT ON LIGHT POLE.
ELEVATION=587.15'

BENCHMARK #3 - MAG NAIL IN LIGHT POLE. (NOT SHOWN ON PLAN, SEE ALTA SURVEY FOR LOCATION)
ELEVATION=589.40'

MISS DIG 811

EXISTING STRUCTURES

STRCT. ID	STRUCTURE DETAILS	STRCT. ID	STRUCTURE DETAILS
CB 2000	EXISTING CURB INLET (SEE KEYNOTE 114) RIM=586.34' INV. 12" CONC, NE=582.54' INV. 12" CONC, SE=582.39'	CB 2003	EXISTING CATCH BASIN RIM=585.10' INV. 10" CONC, NE=581.70'
CB 2001	EXISTING CATCH BASIN RIM=585.57' INV. 12" CONC, SE=582.07' INV. 12" CONC, NW=582.17'	ST 2004	EXISTING STORM SEWER MANHOLE RIM=586.13' INV. 15" CONC, NE=579.38' INV. 15" CONC, SW=580.13' INV. 10" CLAY, NW=581.03'
ST 2002	EXISTING STORM SEWER MANHOLE RIM=585.45' INV. 12" W=581.55' INV. 10" SW=581.35' INV. 15" N=579.05' INV. 15" S=579.05' INV. 10" SE=581.80'	ST 2005	EXISTING STORM SEWER MANHOLE RIM=586.16' INV. 15" CONC, NE=580.06' INV. 15" CONC, SW=580.11'
		CB 2006	EXISTING CATCH BASIN (SEE KEYNOTE 114) RIM=584.53' INV. 8" PVC, S=582.38' INV. 6" PVC, NE=582.48'

PROPOSED STRUCTURES

STRCT. ID	STRUCTURE DETAILS	STRCT. ID	STRUCTURE DETAILS
CB 1	PROPOSED STANDARD INLET, 2' DIA. W/2' SUMP (SEE SHEET C-504) RIM=586.16 INV. 12" HDPE (E)=581.78 4" FINGER DRAIN (NE,SW,NW) INV.=584.66 SUMP INV.=579.78	CB 5	PROPOSED STORM MANHOLE, 4' DIA. W/2' SUMP (SEE SHEET C-504) RIM=585.20 INV. 12" HDPE (NW,E)=581.09 4" FINGER DRAIN (NE,SW) INV.=583.70 SUMP INV.=579.09
CB 2	PROPOSED STORM MANHOLE, 4' DIA. W/2' SUMP (SEE SHEET C-504) RIM=586.10 INV. 12" HDPE (W,SE)=581.59 4" FINGER DRAIN (SW) INV.=584.60 SUMP INV.=579.59	MH 1	PROPOSED STORM MANHOLE, 4' DIA. W/2' SUMP (SEE SHEET C-504) RIM=585.10 INV. 12" HDPE (N,W,S)=580.68 4" FINGER DRAIN (N,W)=583.60 SUMP INV.=578.68
CB 3	PROPOSED STORM MANHOLE, 4' DIA. W/2' SUMP (SEE SHEET C-504) RIM=585.10 INV. 12" HDPE (NW,S)=581.07 4" FINGER DRAIN (NE,SW,SE) INV.=583.60 SUMP INV.=579.07	WQ 1	PROPOSED WATER QUALITY UNIT (WAYNE COUNTY APPROVED) SEE SHEET C-135. RIM=585.51 INV. 12" PVC (NE)=580.58 INV. 12" PVC (SE)=580.55
CB 4	PROPOSED STANDARD INLET, 2' DIA. W/2' SUMP (SEE SHEET C-504) RIM=585.85 INV. 12" HDPE (SE)=581.39 4" FINGER DRAIN (NE,SW) INV.=584.50 SUMP INV.=579.39	OCS 1	PROPOSED OUTLET CONTROL STRUCTURE SEE SHEET C-135. RIM=585.55 INV. 12" HDPE(NW,SW)=580.55 INV. 6" HDPE (S)=579.95 INV. 12" HDPE(E)=579.85

PROPOSED STRUCTURES

STRCT. ID	STRUCTURE DETAILS
MH 2	PROPOSED STORM MANHOLE, 4' DIA. W/2' SUMP (SEE SHEET C-504) RIM=585.53 (EJIW 1040 TYPE A SOLID COVER) INV. 24" HDPE (NE)=580.46 INV. 12" HDPE (SE)=581.49 INV. 12" HDPE (NW)=580.45 SUMP INV.=578.46
EGI 1	PROPOSED 1,000 GALLON EXTERIOR GREASE INTERCEPTOR RIM=586.74 INV. 6" PVC (SE)=578.60 INV. 4" PVC (NW)=578.85
MH 3	PROPOSED STORM MANHOLE, 4' DIA. W/2' SUMP (SEE SHEET C-504) RIM=586.16 (EJIW 1040 TYPE A SOLID COVER) INV. 12" HDPE (W)=579.77 INV. 12" HDPE (N)=579.77 INV. 12" RCP (SE)=579.75

PROPOSED STRUCTURES

STRCT. ID	STRUCTURE DETAILS
MH 4	PROPOSED STORMMANHOLE, 4' DIA. W/2' SUMP (SEE SHEET C-504) RIM=MATCH EXISTING GRADE (EJIW 1040 TYPE A SOLID COVER) INV. 15" (NE,SW)=579.10 (EXISTING) INV. 12" RCP (NW)=579.45
MH 5	PROPOSED STORMMANHOLE, 4' DIA. W/2' SUMP (SEE SHEET C-504) RIM=586.25 (EJIW 1040 TYPE A SOLID COVER) INV. 12" HDPE (W,S)=579.82

SOUTHFIELD ROAD
204' PUBLIC RIGHT OF WAY
CONCRETE

PROPOSED TACO BELL ENDEAVOR XS-6

PROPOSED UNDERGROUND DETENTION SYSTEM

LAFAYETTE BLVD
50' PUBLIC RIGHT OF WAY
CONCRETE

CLEOPHUS PKWY
66'PUBLIC RIGHT-OF-WAY
CONCRETE

PROP. 6.0' STORM EASEMENT

10' SIGN/LANDSCAPE SETBACK

15' BUILDING SETBACK

10' LANDSCAPING SETBACK

15' BUILDING/LANDSCAPING SETBACK

OVERFLOW ROUTE

S70°05'11"E(R)
S70°34'34"E(M)
35.00'(R)
34.64'(M)

S70°06'40"E(R)
S70°18'08"E(M)
35.00'(R)
35.72'(M)

S89°52'41"E(R) S89°53'41"E(M)
147.00'(R)
146.83'(M)

N19°33'00"E(R&M)
115.73'(R&M)

S19°38'31"W(M)
115.81'(M)
116.29'(R)
S19°33'00"W(R)

35.00'(R&M)
N69°48'00"W(R&M)

147.00'(R&M) N69°48'00"W(R&M)

N

0 10
5 20
1"=10'
Horizontal Scale in Feet

LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

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

PLAN KEYNOTES (#)

STORM

100. CONNECT TO PROPOSED MANHOLE. ALL CONNECTIONS TO THE STRUCTURE SHALL BE WATERTIGHT. PROPOSED INV. 579.45±.
101. PROPOSED 29 L.F. OF 12" RCP STORM SEWER @ 1.00%.
102. NOT USED.
103. PROPOSED 10 L.F. OF 12" HDPE STORM SEWER @ 1.00%.
104. PROPOSED 10 L.F. OF 12" HDPE STORM SEWER @ 1.00%.
105. PROPOSED 78.5 L.F. OF 12" HDPE STORM SEWER @ 0.50%.
106. PROPOSED 103 L.F. OF 12" HDPE STORM SEWER @ 0.50%.
107. PROPOSED 8 L.F. OF 6" PVC STORM SEWER @ 1.00%.
108. PROPOSED 37 L.F. OF 12" HDPE STORM SEWER @ 0.50%.
109. PROPOSED 82.3 L.F. OF 12" HDPE STORM SEWER @ 0.50%.
110. PROPOSED 59.7 L.F. OF 12" HDPE STORM SEWER @ 0.50%.
111. PROPOSED WYE CONNECTION, SEE SHEET C-503. INV.=581.57. (A)
112. PROPOSED 215 L.F. OF 12" HDPE STORM SEWER @ 0.50% (FOR FUTURE CONNECTION).
113. PROPOSED 4" FINGER DRAIN, SEE DETAIL, SHEET C-503.
114. EXISITING CATCH BASIN RIM TO BE REPLACED (FLAT GRADE H20 LOADING) AND TO FINISHED GRADE PER GRADING PLAN. CONTRACTOR TO ENSURE STRUCTURAL STABILITY OF EXISTING CATCH BASIN TO RECONSTRUCT TOP OF BASIN TO PROPOSED FINISHED GRADE. CONTRACTOR TO REPLACE EXISTING STRUCTURE IF FOUND UNSTABLE.
115. PROPOSED 8 L.F. OF 12 HDPE STORM SEWER @ 1.00%.
116. PROPOSED 10 L.F. OF 12" HDPE STORM SEWER @ 0.5%.
117. PROPOSED STORM CLEANOUT WITH ALL FITTINGS, SEE SHEET C-503. RIM= 586.98, INV.=580.88. (A)
118. PROPOSED WYE CONNECTION, SEE SHEET C-503. INV.=581.46.
119. PROPOSED 23 L.F. OF 6" PVC STORM SEWER @ 1.00%.
120. PROPOSED STORM CLEANOUT AND WYE CONNECTION, SEE SHEET C-503. RIM= 586.98, INV=581.69.

SANITARY

200. PROPOSED SANITARY CONNECTION. INV=577.20±.. CONTRACTOR SHALL PROVIDE CONNECTION PER CITY OF LINCOLN PARK SEWER DEPARTMENT STANDARDS. CONTRACTOR TO PROVIDE SUFFICIENT SUPPORT TO ALL CROSSING UTILITIES DURING CONSTRUCTION.
201. PROPOSED 49 L.F. OF 6" PVC SANITARY SEWER @ 3.00%.
202. PROPOSED SANITARY WYE CONNECTION. INV.=578.52.
203. PROPOSED SANITARY CLEANOUT AND WYE CONNECTION, SEE SHEET C-503. RIM= 586.50, INV=578.67.
204. PROPOSED 11 L.F. OF 6" PVC SANITARY SEWER @ 3.00%.
205. PROPOSED 2.5 L.F. OF 6" PVC SANITARY SEWER @ 3.00%.
206. PROPOSED 11.5 L.F. OF 4" PVC SANITARY SEWER @ 3.00%.
207. PROPOSED SANITARY CONNECTION. INV=579.20.
208. PROPOSED SANITARY CONNECTION. INV=579.45.
209. PROPOSED SANITARY CLEANOUT AND WYE CONNECTION, SEE SHEET C-503. RIM= 586.88, INV=579.00.
210. PROPOSED 13 L.F. OF 6" PVC SANITARY SEWER @ 3.00%.

WATER

300. PROPOSED WATER CONNECTION. COORDINATE WITH PLUMBING PLANS.
301. PROPOSED WATER METER AND BACKFLOW PREVENTOR INSIDE BUILDING PER CITY OF LINCOLN PARK STANDARDS AND SPECIFICATIONS. BACKFLOW PREVENTOR SHALL BE LOCATED AFTER THE METER.
302. PROPOSED 80 L.F. 1.5" (COPPER TYPE K) WATER SERVICE LINE.
303. PROPOSED WATER SERVICE TAP PER CITY OF LINCOLN PARK STANDARDS AND SPECIFICATIONS.

ELECTRIC AND COMMUNICATIONS

400. PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. ELECTRIC SERVICE LINE TO BE COORDINATED WITH THE ELECTRIC COMPANY.
401. PROPOSED ELECTRIC AND TELECOMMUNICATIONS SERVICE CONNECTION TO BE COORDINATED WITH THE UTILITY COMPANIES.
402. PROPOSED LIGHT POLE. SEE STRUCTURAL DRAWINGS AND ELECTRICAL DRAWINGS FOR SPECIFICATIONS.
403. PROPOSED ELECTRICAL TRANSFORMER ON 6" CONCRETE PAD OVER 4" AGGREGATE BASE PER ELECTRICAL COMPANY SPECIFICATIONS. G.C. TO VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER.

GAS

500. PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. SEE BUILDING DRAWINGS FOR EXACT LOCATION. GAS SERVICE LINE TO BE COORDINATED WITH THE GAS COMPANY.
501. PROPOSED 37 L.F. GAS SERVICE CONNECTION TO BE COORDINATED WITH THE GAS COMPANY.

UTILITY CROSSINGS

GENERAL CROSSING NOTES: CONTRACTOR SHALL COORDINATE ALL CROSSINGS WITH THE UTILITY COMPANY. PRESSURIZED AND SECONDARY UTILITIES SHALL DEFLECT TO MAINTAIN 18" CLEAR AT SANITARY OR STORM SEWER CROSSINGS.

600. PROPOSED UTILITY CROSSING: 12" HDPE STORM SEWER INV.=581.16; 6" PVC SANITARY SEWER INV=578.13.
601. PROPOSED UTILITY CROSSING: 6" PVC STORM SEWER INV.=581.62; 6" PVC SANITARY SEWER INV=578.92.
602. PROPOSED UTILITY CROSSING: 6" PVC SANITARY SEWER INV.=577.25; 12" EXISTING STORM SEWER INV.=582.22.
603. PROPOSED UTILITY CROSSING: 6" PVC SANITARY SEWER INV.=577.77; 12" PROPOSED STORM SEWER INV.=580.08.

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

A	05.24.21	NTP/ENGINEERING REVISIONS
A	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

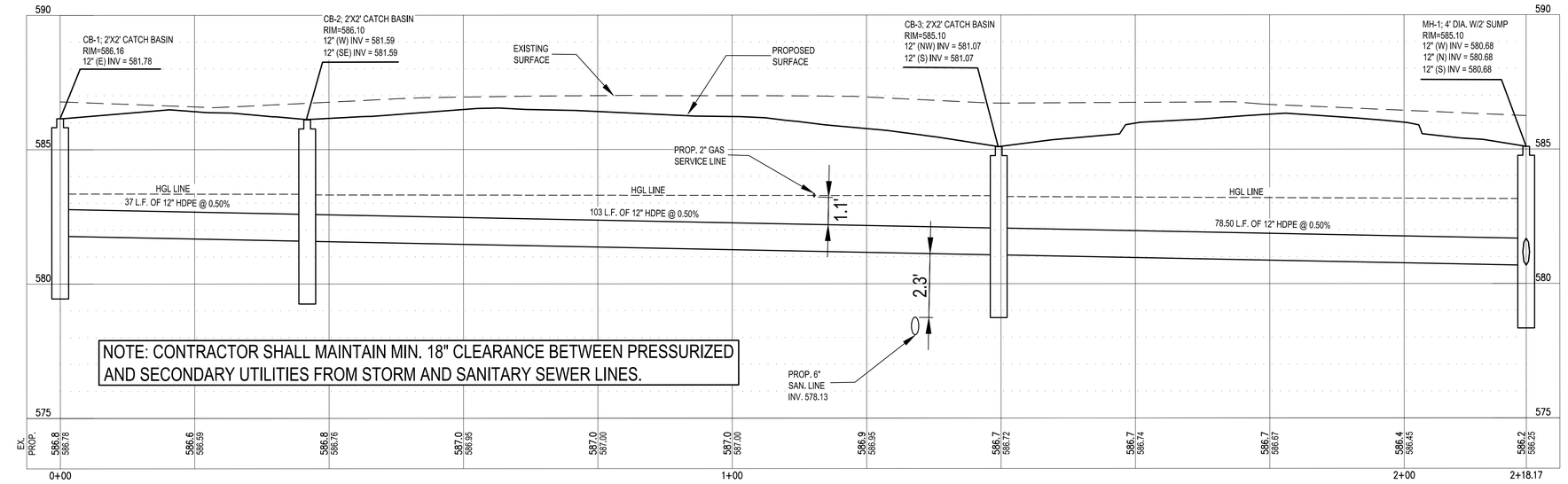
TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

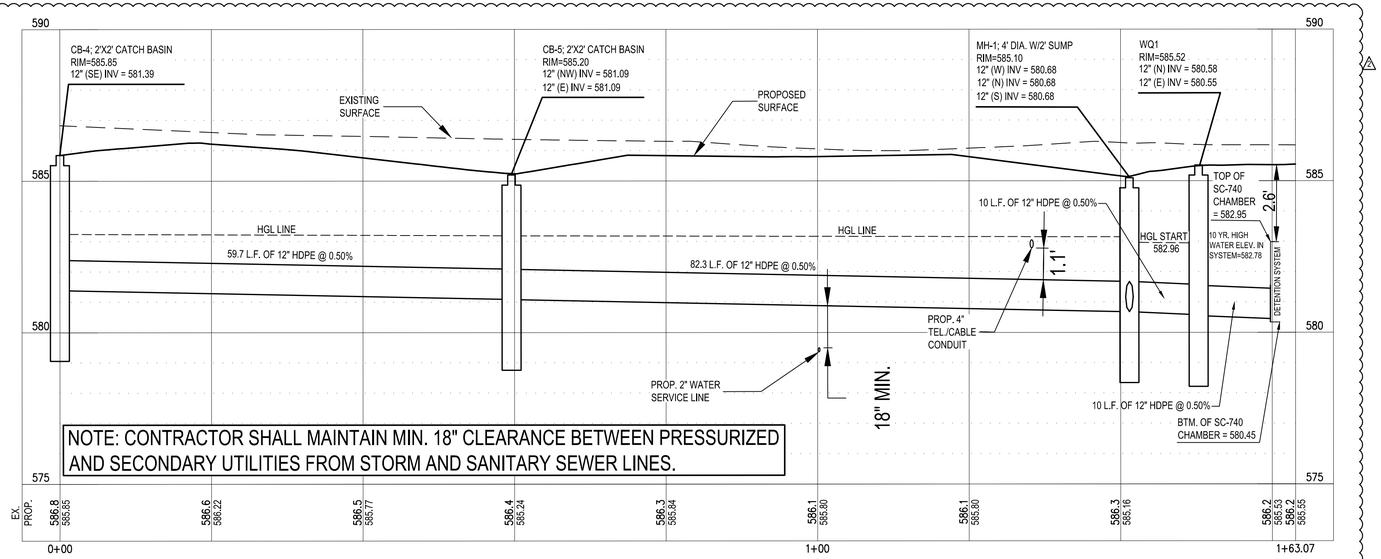
UTILITY PLAN

C-131

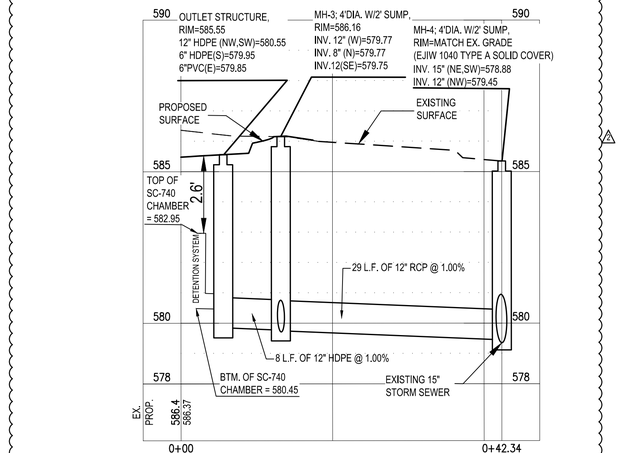
PLOT DATE: 6-14-21



PROPOSED STORM PROFILE (CB-1 TO MH-1)
SCALE VER:1"=5'
SCALE HOR:1"=10'



PROPOSED STORM PROFILE (CB4 TO DETENTION SYSTEM)
SCALE VER:1"=5'
SCALE HOR:1"=10'



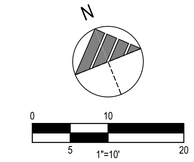
DETENTION SYSTEM TO EXISTING SEWER
SCALE VER:1"=5'
SCALE HOR:1"=10'

BENCHMARKS:
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED. ELEVATIONS ARE NAVD 88 DATUM.

BENCHMARK #1 - PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE.
ELEVATION=586.83'

BENCHMARK #2 - SOUTHEAST BOLT ON LIGHT POLE.
ELEVATION=587.15'

BENCHMARK #3 - MAG NAIL IN LIGHT POLE. (NOT SHOWN ON PLAN, SEE ALTA SURVEY FOR LOCATION)
ELEVATION=589.40'



MISS DIG 811

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1	05.24.21	NTP/ENGINEERING REVISIONS
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PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

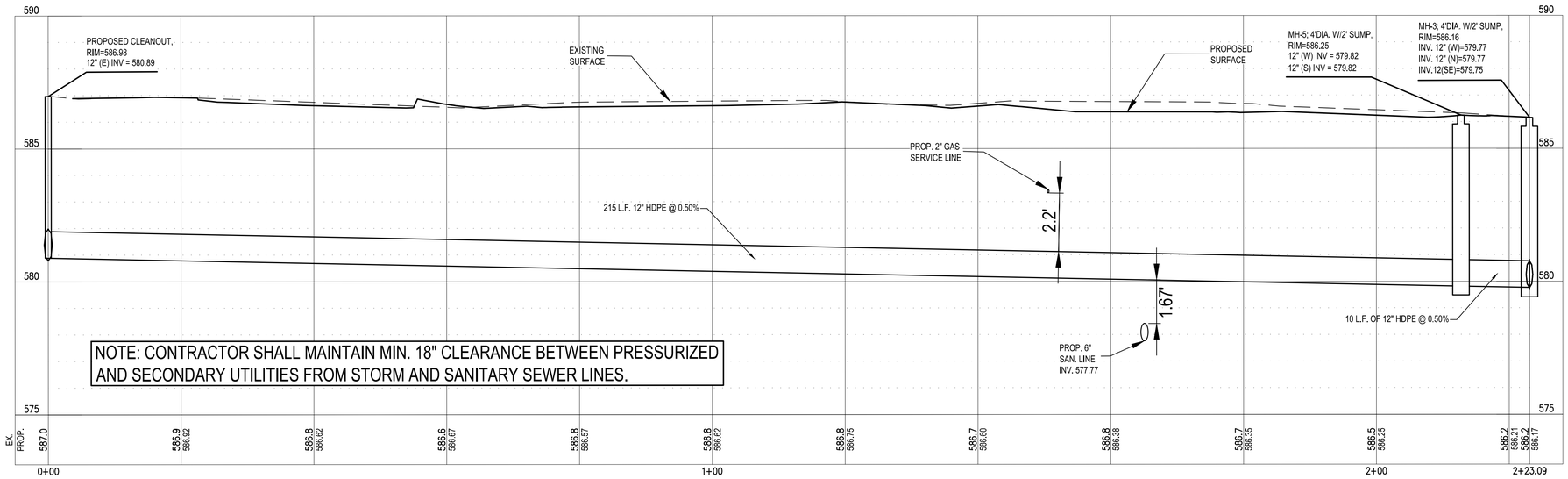
TACO BELL

END XS6

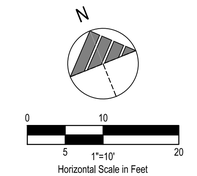
UTILITY PROFILES

C-132

PLOT DATE: 6-14-21



PROPOSED CLEANOUT TO MH 3
SCALE VER:1"=5'
SCALE HOR:1"=20'



WEST PARCEL DEVELOPMENT STORM SEWER ANALYSIS

PER SECTION 6.2 OF GENERAL DESIGN STANDARDS OF WAYNE COUNTY STORMWATER MANAGEMENT PROGRAM STANDARD MANUAL, DATED FEBRUARY 2007 (REVISED JULY 2015), FOR DRAINAGE AREA OF FIVE ACRES OR LESS, DETENTION OF THE 10-YEAR STORM IS REQUIRED FOR FLOOD CONTROL PURPOSED. PEAK FLOW RATE SHALL NOT EXCEED 0.15 CFS/ACRE FOR THE 10-YEAR STORM EVENT.

TOTAL AREA FOR WEST PARCEL : 24,549 SF (0.5635 ACRES)

WEST PARCEL WILL HAVE IT'S OWN DETENTION SYSTEM FOR FLOOD CONTROL WHICH WILL DRAIN INTO PROVIDED 12" HDPE PIPE.

CALCULATED 10-YR PEAK FLOW RATE: 0.5635 X 0.15 = 0.0845 CFS

THE ABOVE 12" HDPE STORM SEWER WILL ONLY BE USED TO CARRY OVER RESTRICTED FLOW FROM DETENTION SYSTEM (0.0845 CFS MAX.)

CAPACITY OF 12" HDPE @ 0.5% = 2.73 CFS > 0.0845 CFS (MAX. ALLOWED)

BENCHMARKS:
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED. ELEVATIONS ARE NAVD 88 DATUM.

BENCHMARK #1 - PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE.
ELEVATION=586.83'

BENCHMARK #2 - SOUTHEAST BOLT ON LIGHT POLE.
ELEVATION=587.15'

BENCHMARK #3 - MAG NAIL IN LIGHT POLE. (NOT SHOWN ON PLAN, SEE ALTA SURVEY FOR LOCATION)
ELEVATION=589.40'

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CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

END XS6

UTILITY PROFILES

C-132A 1

PLOT DATE: 6-14-21

BENCHMARKS:
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED. ELEVATIONS ARE NAVD 88 DATUM.

BENCHMARK #1 - PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE. ELEVATION=586.83'

BENCHMARK #2 - SOUTHEAST BOLT ON LIGHT POLE. ELEVATION=587.15'

BENCHMARK #3 - MAG NAIL IN LIGHT POLE. (NOT SHOWN ON PLAN, SEE ALTA SURVEY FOR LOCATION) ELEVATION=589.40'

MISS DIG 811

LEGEND

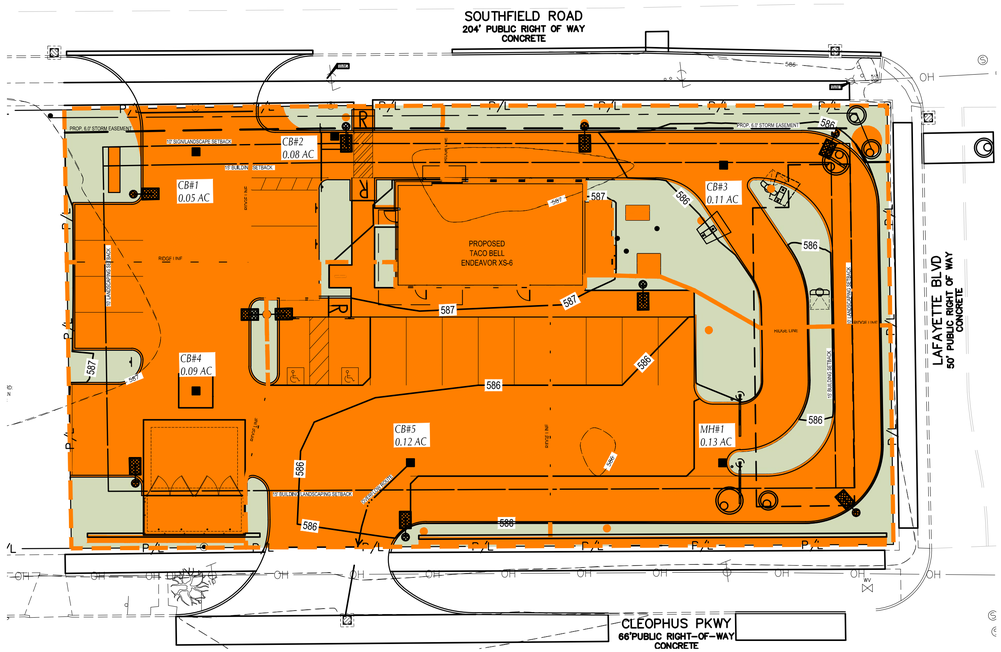
IMPERVIOUS AREA TO DETENTION SYSTEM

PERVIOUS AREA TO DETENTION SYSTEM

N

0 20 10 40

1"=20'
Horizontal Scale in Feet

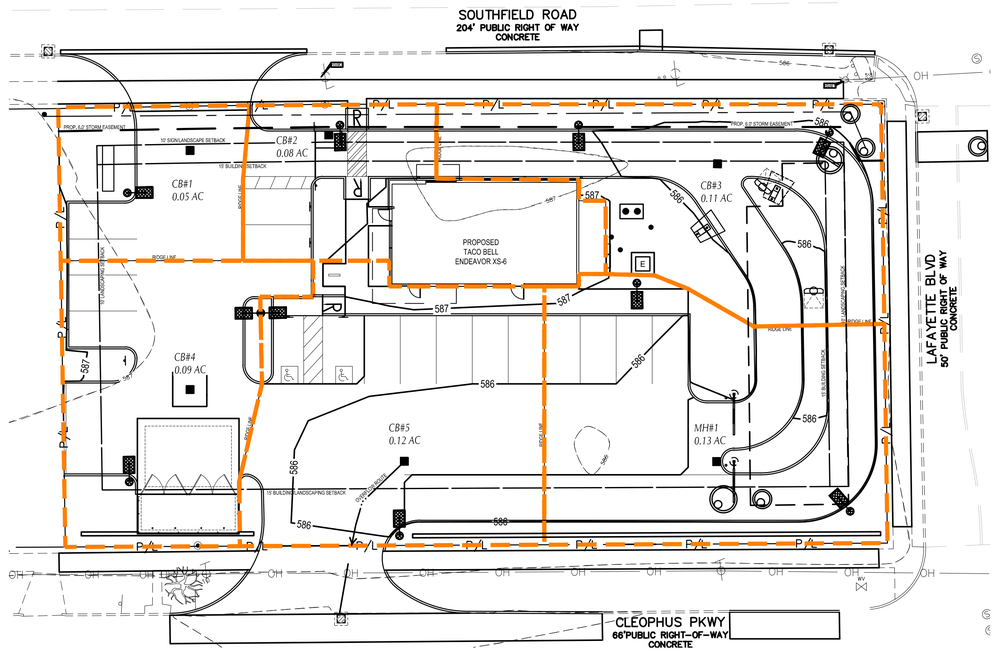


LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

000 PROPOSED CONTOUR

DRAINAGE AREAS TO CATCH BASINS

NOTE: EMERGENCY OVERLAND OVERFLOW FROM UNDERGROUND DETENTION SYSTEM WILL FLOW TO APRONS AND OUT TO PUBLIC ROADS.



Runoff Coefficient Calculation:

TOTAL AREA: 0.58 ACRES
Impervious Area: 0.45 Acres,
Runoff Coefficient=0.95

Pervious Area : 0.13 Acres,
Runoff Coefficient=0.45

Total Weighted Runoff Coefficient = 0.84

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr	Total		Incr	Total	Inlet	Syst					Size	Slope	Dn	Up	Dn	Up	Dn	Up	
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
6	5	37.000	0.05	0.05	0.90	0.05	0.05	10.0	10.0	5.1	0.23	2.76	0.29	12	0.51	581.59	581.78	583.23	583.23	586.10	586.16	108
5	4	103.000	0.08	0.13	0.90	0.07	0.12	10.0	12.1	4.7	0.55	2.74	0.71	12	0.50	581.07	581.59	583.20	583.22	585.10	586.10	106
4	1	78.500	0.11	0.24	0.90	0.10	0.22	10.0	14.4	4.4	0.96	2.72	1.22	12	0.50	580.68	581.07	583.12	583.17	585.10	585.10	105
3	2	59.700	0.09	0.09	0.90	0.08	0.08	10.0	10.0	5.1	0.41	2.73	0.52	12	0.50	581.09	581.39	583.18	583.18	585.20	586.00	110
2	1	82.300	0.12	0.21	0.90	0.11	0.19	10.0	11.9	4.8	0.90	2.72	1.15	12	0.50	580.68	581.09	583.12	583.16	585.10	585.20	109
1	End	10.000	0.13	0.58	0.90	0.12	0.52	10.0	15.4	4.3	2.25	3.86	2.86	12	1.00	580.58	580.68	582.96	582.99	585.51	585.10	104

Project File: Stm Sewers.stm | Number of lines: 6 | Run Date: 1/28/2021

NOTES:Intensity = 148.29 / (Inlet time + 19.70) ^ 1.00; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewers v2020.00

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1	06.14.21	ISSUED FOR BID

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TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

DRAINAGE MAPS

C-133

PLOT DATE: 6-14-21

TACO BELL - LINCOLN PARK, WAYNE COUNTY, MI
Underground Detention Storm System Calculations

Performed by: EA
Date: 12/21/20
Revise:

10-year Storm Calculations

PROPOSED			
	Area (Ac.)	C	A x C
Roof	0.0391	0.95	0.037
Asphalt/Concrete	0.4125	0.95	0.392
Gravel	0	0.85	0.00
Lawn	0.1272	0.45	0.057
Total	0.5788		0.486
	C_{AVG}	0.840	

A = 0.5788 acres
C= 0.84
Frontage= 217 ft

Q_A (allowable)=0.15*A — 0.0868 cfs — Smaller Value
Q_A (allowable)=0.103*Frontage/100 — 0.224 cfs

Q_0 (max) = Q_A/(A*C) — 0.179 cfs/acre impervious
T10 = -19.9+(4530/Q0)^0.5 — 139.38 min
V_{S10} = ((9108*T_{10})/(T_{10} + 19.9))-40*Q_0*T_{10} — 6,975 cf/acre impervious
V_{T10} = V_{S10}*A*C — 3,391 cf
V_{Tbf} = 5,160*A*C — 2,509 cf

First flush calculations will not be required due to existence of mechanical forebay.

Storage Volume Calcuations

Using StormTech Chamber

Size	area of system (sf)	# Chambers	Volume (cf)
SC-740	2222	53	3,771

Z_0 = 579.95 Pipe Invert at Detention Pipes
Z_{OUT} = 579.85 Pipe Invert at Outlet Control Structure

Bank Full Elevation
Z_{bf} = Bank Full Storage Elevation = 581.95

Flood Control Storage Elevation
Z_{10} = V_{T10} Elevation = 582.78

Control Outlet Structure Design

Outlet Sizing for Bank Full Flood
Discharge to be released within a 40-hour timeframe

Q_{avg} = V_{Tbf}/ (40*3600) = 0.017 cfs
h_{avg} = 0.5*(Z_{bf}-Z_0)+(Z_0-Z_{OUT}) = 1.10 ft
A = Q_{avg}/(0.62*(32.2*2*h_{avg})^0.5) = 0.00334 sf
equals 0.7824 in diameter
Hole Dia. = 1 in
Using one 1" hole @ elev. 579.85
A_{ACTUAL} = 0.00545 ft^2
$Q_{avg\ ACTUAL}$ = 0.028 cfs
T_{ACTUAL} = 24.49 hours

Outlet Sizing for 10-Year Storm
Q_{peak}= 0.0868 cfs

Calculate for Bank Full Hole(s) Contribution
h_{bf} = Z_{10}-Z_{OUT} = 2.93 ft
Q_{bf} = 0.62*A_{ACTUAL}*(32.2*2*h_{bf})^0.5 = 0.046 cfs

Additional holes required to release remainder of Q_A
Q_{ADJ} = Q_{MAX}-Q_{bf} = 0.040 cfs
h_{MAX} = Z_{10}-Z_{bf} = 0.83 ft
A_{ADJ} = Q_{ADJ}/(0.62*(32.2*2*h_{MAX})^0.5 = 0.0089 sf
Hole Size (diameter) = 1.250 in
Hole Size (area)= 0.0085 ft^2
Number of Holes = 1.045
Number of holes used = 1.00

Use one 1-1/4" holes at Elev. 581.95

$A_{10ACTUAL}$ = 0.0085 sf
$Q_{10ACTUAL}$ = 0.62*$A_{10ACTUAL}$*(32.2*2*h_{MAX})^0.5 = 0.039 cfs

Q_{TOTAL} = Q_{bf} + $Q_{10ACTUAL}$ = 0.0851 cfs < 0.0868 cfs

Outlet Pipe Design for 10-Year Event

$Q_{A=}$ 0.085 cfs
(See closed conduit sizing for 10-year storm)

Pipe Size = 6.0 in
Area = 0.19635 sf
n = 0.012
R = 0.12500 ft
Slope = [(Q_{PEAK}*n)/1.486*A_{OUT}*R^0.67]^2 — 1.00 %
V= Q_{PEAK10}/A — 0.43 ft/s

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	MIGUEL VARGAS 419-215-8020 MIGUEL.VARGAS@ADS-PIPE.COM
ADS SALES REP:	NICK KARBER 734-707-3967 NICK.KARBER@ADS-PIPE.COM
PROJECT NO:	S215664

ADVANCED DRAINAGE SYSTEMS, INC.

SiteASSIST by StormTech — FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

TACO BELL LINCOLN PARK
LINCOLN PARK, MI

SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY AS FOLLOWS:
   - THEY SHALL BE TESTED AT A RATE OF ONE (1) TEST PER SHIFT, BUT NOT TO EXCEED 260 PIECES OF CHAMBER (4.3' LONG EACH PIECE) OR END CAPS BY WAYNE COUNTY OR AN INDEPENDENT THIRD PARTY.
   - A WAYNE COUNTY OR AN INDEPENDENT THIRD PARTY CERTIFICATION SHALL BE PROVIDED WITH EACH TESTED SHIPMENT.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

A WAYNE COUNTY PERMIT ENGINEER/INSPECTOR MUST OBSERVE INSTALLATION OF THE UNDERGROUND DETENTION SYSTEM. CONTACT WAYNE COUNTY PERMIT OFFICE AT (734) 595-6504 X 2009.

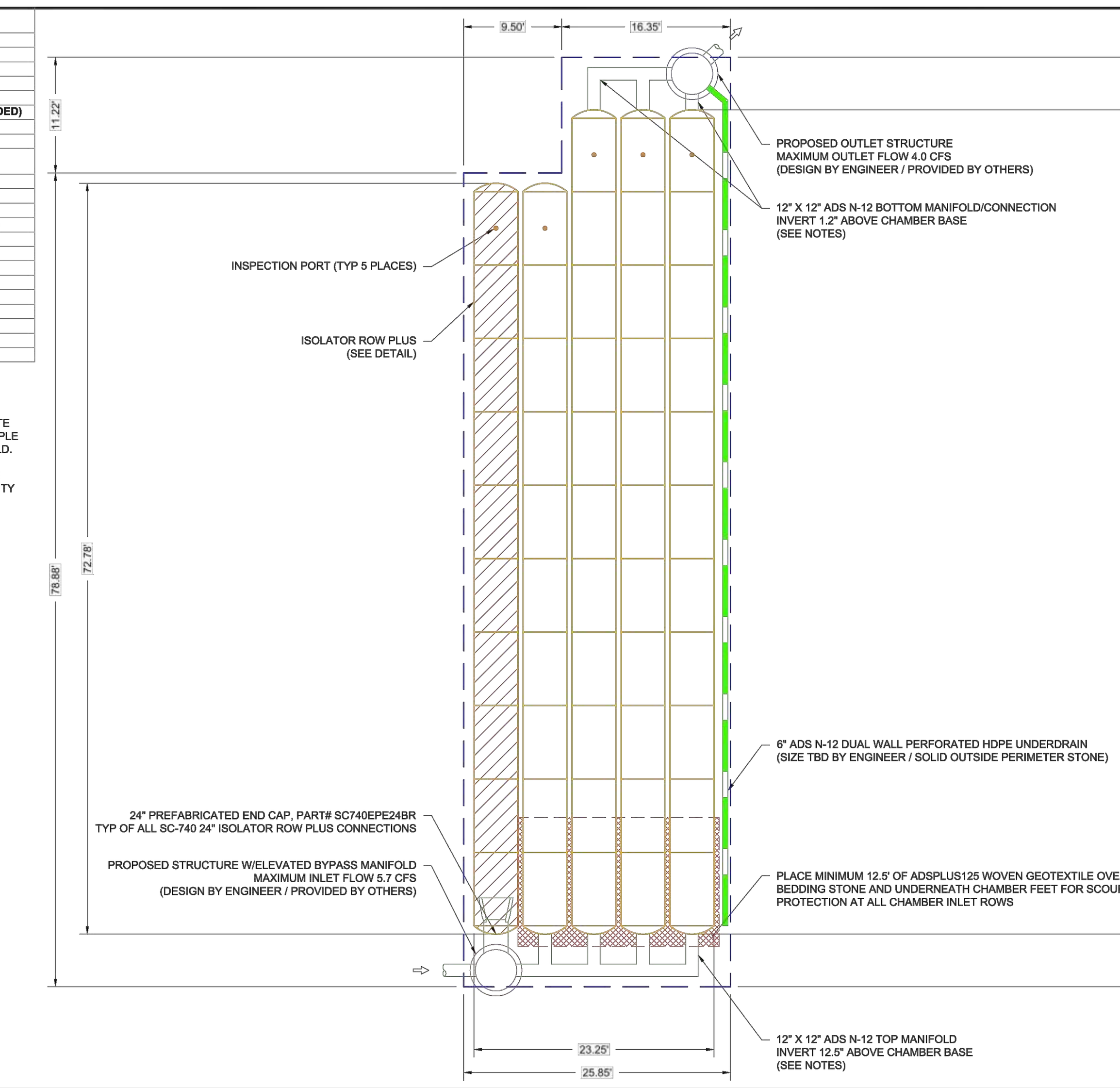
PROPOSED LAYOUT

53	STORMTECH SC-740 CHAMBERS
10	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
25	% STONE VOID
3771	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
2222	SYSTEM AREA (ft²)
232	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

590.95	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
584.95	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
584.45	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
584.45	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
584.45	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
583.45	TOP OF STONE
582.95	TOP OF SC-740 CHAMBER
581.49	12" TOP MANIFOLD INVERT
580.55	12" BOTTOM MANIFOLD/CONNECTION INVERT
580.46	24" ISOLATOR ROW PLUS CONNECTION INVERT
580.45	BOTTOM OF SC-740 CHAMBER
579.95	UNDERDRAIN INVERT
579.95	BOTTOM OF STONE

NOTES
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.

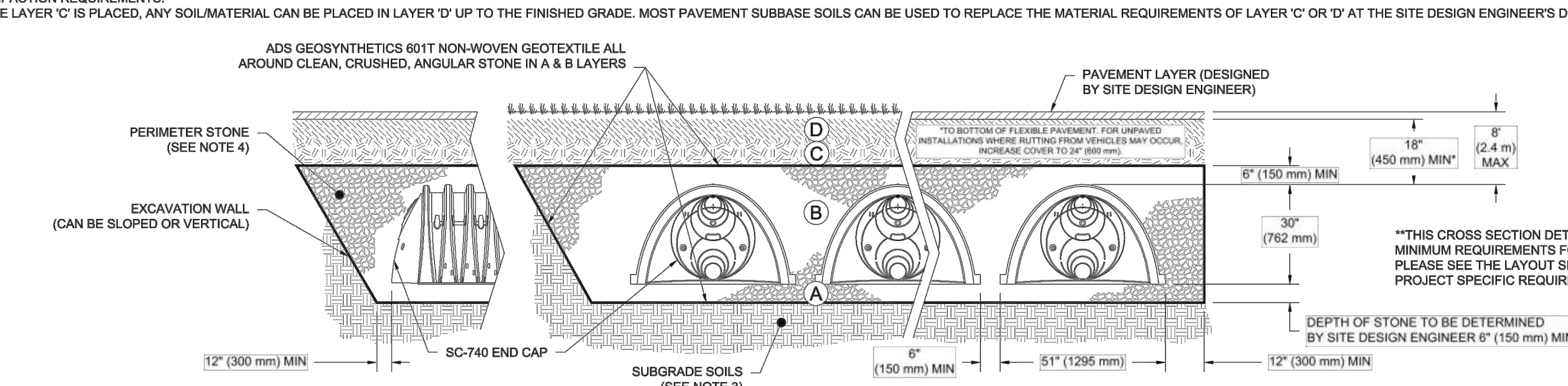


TACO BELL LINCOLN PARK, LINCOLN PARK, MI — DATE: 12/30/20 — DRAWN: MCC — PROJECT #: S215664 — CHECKED: JPR
4640 TRUEMAN BLVD HILLIARD, OH 43026
SHEET 2 OF 5

ACCEPTABLE FILL MATERIALS: WAYNE COUNTY STORMTECH SC-740 CHAMBER SYSTEMS

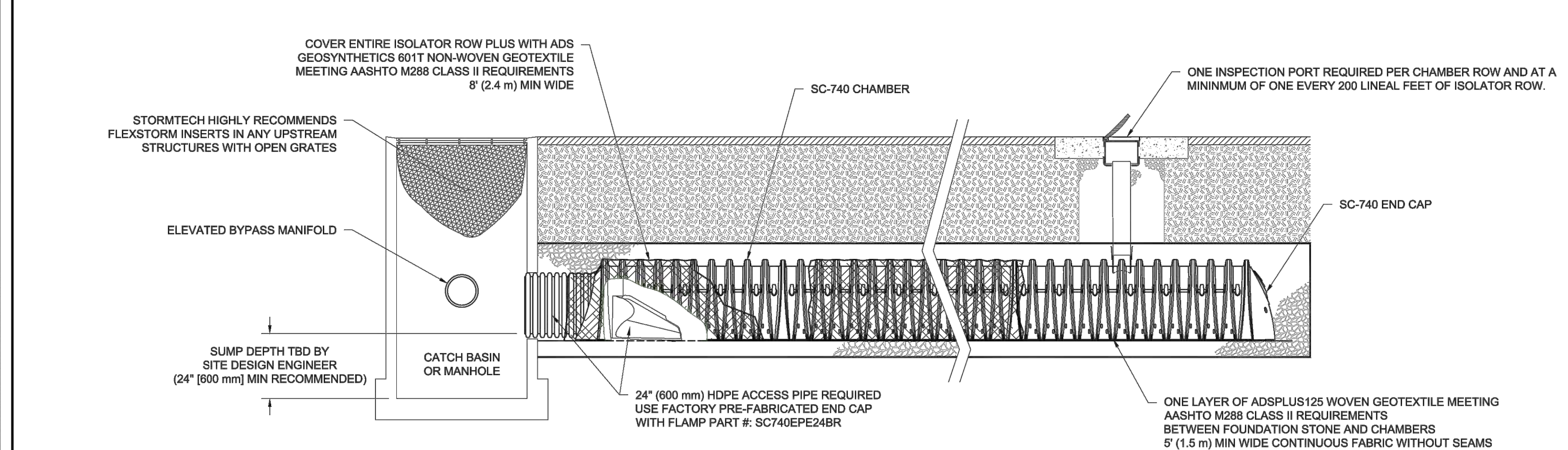
	MATERIAL LOCATION	DESCRIPTION	MDOT MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	N/A	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	4AA, 6A, 6AA, WAYNE COUNTY 3" X 1" [1]	NO COMPACTION REQUIRED. THE MAXIMUM UNIT WEIGHT SHALL BE DETERMINED BY MICHIGAN CONE OR AASHTO T-180.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	4AA, 6A, 6AA, WAYNE COUNTY 3" X 1" [1]	PLATE COMPACT OR ROLL TO ACHIEVE A 95% MAX UNIT WEIGHT.[2,3]

PLEASE NOTE:
1. THE LISTED MDOT DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR 6A STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR MDOT 6A STONE".
2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL PASSES WITH AN APPROPRIATE COMPACTOR ONE TEST PER LIFT OF BACKFILL PER 200 LINEAL FEET OR LESS OF TRENCH.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SHEET 3 OF 5



WAYNE COUNTY SC-740 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

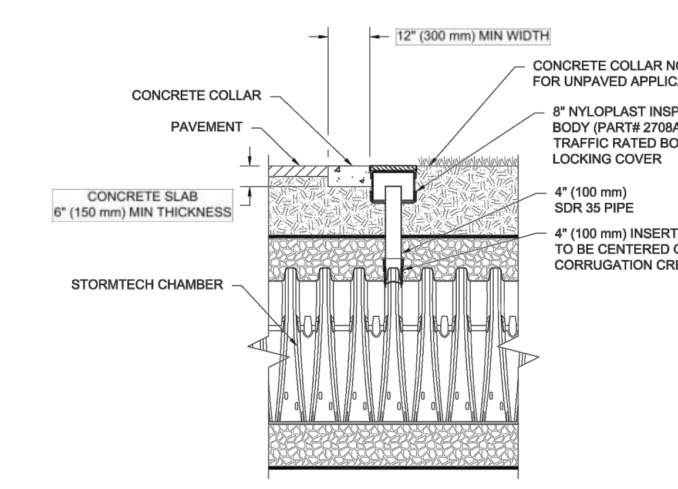
STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
A. INSPECTION PORTS (IF PRESENT)
A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
B. ALL ISOLATOR PLUS ROWS
B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

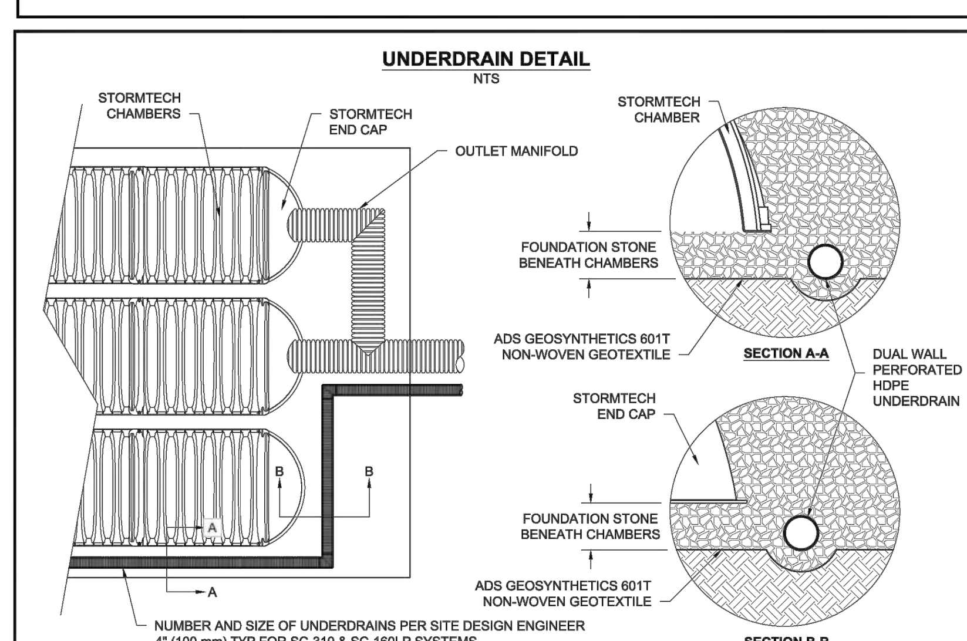


NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

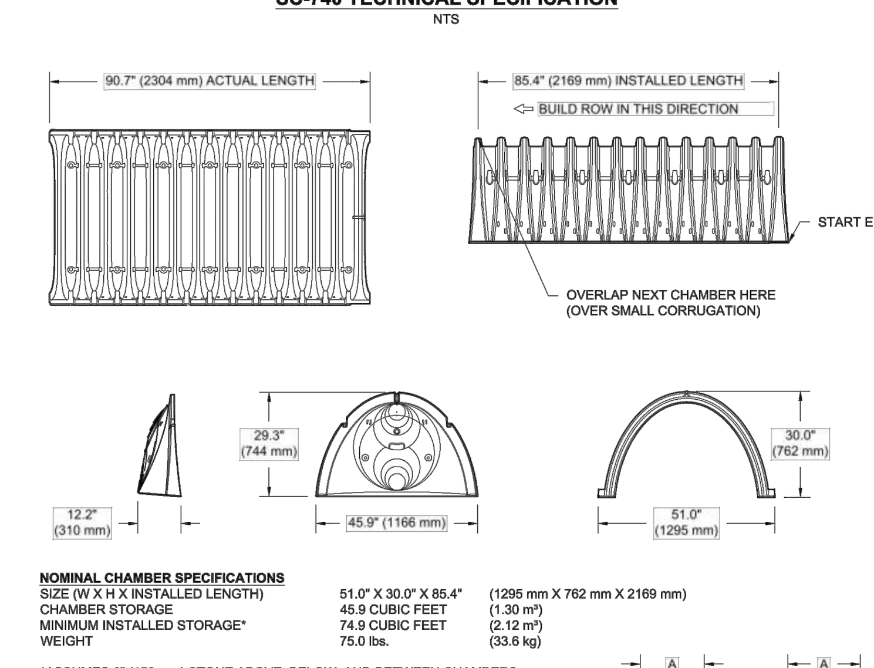
4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

SHEET 4 OF 5

UNDERDRAIN DETAIL
NTS



SC-740 TECHNICAL SPECIFICATION
NTS

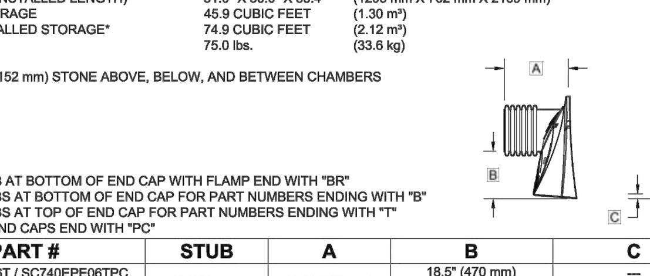


NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"



PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)
SC740EPE24BR*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

SHEET 5 OF 5

Project: Taco Bell Lincoln Park

Chamber Model - SC-740
Units - Imperial (Click Here for Metric)

Number of chambers - 53
Voids in the stone (porosity) - 25 %
Base of Stone Elevation - 579.95 ft
Amount of Stone Above Chambers - 6 in
Amount of Stone Below Chambers - 6 in
☑ Include Perimeter Stone in Calculations

Area of system - 2222 sf Min. Area - 1792 sf min. area

StormTech SC-740 Cumulative Storage Volumes

Height of System (inches)	Incremental Single Chamber (cubic feet)	Incremental Total Chamber (cubic feet)	Incremental Stone (cubic feet)	Incremental Ch & St (cubic feet)	Cumulative Chamber (cubic feet)	Elevation (feet)
42	0.00	0.00	46.29	46.29	3770.80	583.45
41	0.00	0.00	46.29	46.29	3724.50	583.37
40	0.00	0.00	46.29	46.29	3678.21	583.28
39	0.00	0.00	46.29	46.29	3631.92	583.20
38	0.00	0.00	46.29	46.29	3585.63	583.12
37	0.00	0.00	46.29	46.29	3539.34	583.03
36	0.05	2.91	45.56	48.48	3493.05	582.95
35	0.16	8.63	44.13	52.77	3444.57	582.87
34	0.28	14.94	42.56	57.50	3391.80	582.78
33	0.60	32.01	38.29	70.30	3334.30	582.70
32	0.80	42.49	35.67	78.16	3264.00	582.62
31	0.95	50.39	33.70	84.08	3185.84	582.53
30	1.07	56.95	32.05	89.00	3101.76	582.45
29	1.18	62.57	30.65	93.22	3012.76	582.37
28	1.27	67.08	29.52	96.60	2919.54	582.28
27	1.36	71.82	28.34	100.15	2822.94	582.20
26	1.45	77.07	27.02	104.09	2722.79	582.12
25	1.52	80.81	26.09	106.90	2618.69	582.03
24	1.58	83.86	25.33	109.19	2511.80	581.95
23	1.64	87.04	24.53	111.57	2402.61	581.87
22	1.70	90.07	23.77	113.85	2291.03	581.78
21	1.75	92.91	23.07	115.97	2177.19	581.70
20	1.80	95.55	22.40	117.95	2061.22	581.62
19	1.85	98.31	21.71	120.03	1943.26	581.53
18	1.89	100.33	21.21	121.54	1823.23	581.45
17	1.93	102.50	20.67	123.17	1701.69	581.37
16	1.97	104.67	20.12	124.80	1578.52	581.28
15	2.01	106.53	19.66	126.19	1453.73	581.20
14	2.04	108.38	19.20	127.58	1327.54	581.12
13	2.07	109.97	18.80	128.77	1199.96	581.03
12	2.10	111.56	18.40	129.96	1071.19	580.95
11	2.13	112.99	18.05	131.03	941.23	580.87
10	2.15	114.15	17.75	131.91	810.20	580.78
9	2.18	115.38	17.45	132.83	678.29	580.70
8	2.20	116.51	17.16	133.68	545.46	580.62
7	2.21	116.99	17.04	134.03	411.78	580.53
6	0.00	0.00	46.29	46.29	277.75	580.45
5	0.00	0.00	46.29	46.29	231.46	580.37
4	0.00	0.00	46.29	46.29	185.17	580.28
3	0.00	0.00	46.29	46.29	138.88	580.20
2	0.00	0.00	46.29	46.29	92.58	580.12
1	0.00	0.00	46.29	46.29	46.29	580.03

Z_{10} = 582.78
Z_{BF} = 581.95

THESE DETAILS HAS NOT BEEN REVIEWED BY THE STAMPING PARTY. THEREFORE, THE STAMPING PARTY MAKES NO REPRESENTATION(S) WITH RESPECT TO ITS CONTENTS, AND SHALL NOT BE LIABLE FOR SUCH. THESE DETAILS ARE FOR REFERENCE ONLY. ANY RELIANCE ON THESE DETAILS SHALL BE AT THE RELYING PARTY(IES)'S OWN RISK AND HEREBY WAIVES ANY AND ALL CLAIM(S) RELATED TO THE EXISTENCE OF THE STAMP OR OTHERWISE.

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

3	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

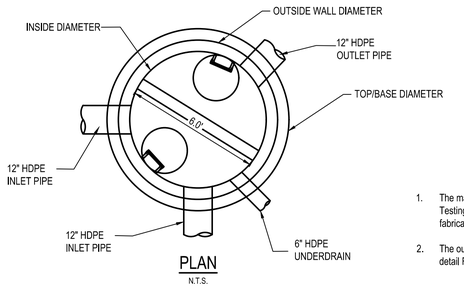
TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

END XS6

DESIGN CALCULATIONS AND STORMTECH DETAILS

C-134

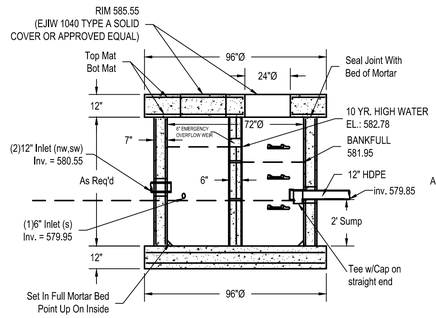
PLOT DATE: 6-14-21



PLAN

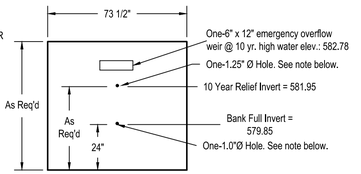
N.T.S.

1. The manufacturer of the flow restrictor shall contact the Wayne County Testing Office at (734) 595-6504 Ext. 2015 at least 72 hours prior to fabrication to schedule inspection during fabrication.
2. The outlet control structure shall be constructed per Wayne County detail FR-1 or as directed by the county engineer.



SECTION

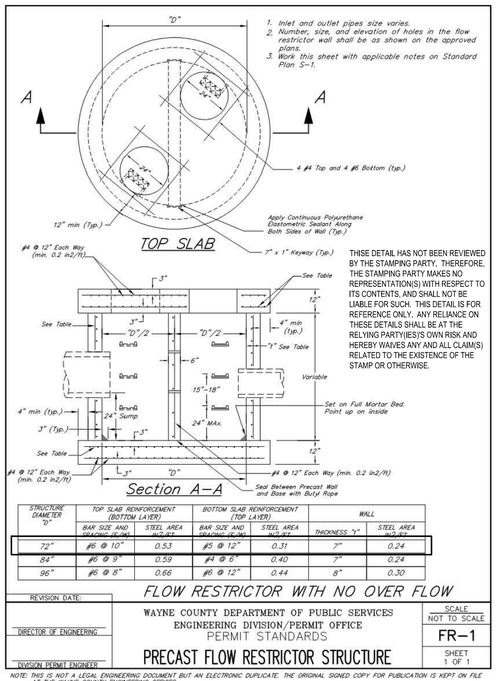
N.T.S.



Note:
Contractor shall carefully drill the wall and install 1" and 1.25" dia. pvc pipes (water tight) through the holes at the elevations shown to allow for the relief of stormwater.
Contractor shall install a down-turn elbow on the inlet side of the wall for plugging protection.

PRECAST WALL SECTION

N.T.S.



THISE DETAIL HAS NOT BEEN REVIEWED BY THE STAMPING PARTY. THEREFORE, THE STAMPING PARTY MAKES NO REPRESENTATION(S) WITH RESPECT TO ITS CONTENTS, AND SHALL NOT BE LIABLE FOR SUCH. THIS DETAIL IS FOR REFERENCE ONLY. ANY RELIANCE ON THESE DETAILS SHALL BE AT THE RELYING PARTY(IES)'S OWN RISK AND HEREBY WAIVES ANY AND ALL CLAIM(S) RELATED TO THE EXISTENCE OF THE STAMP OR OTHERWISE.

STRUCTURE DIAMETER "D"	TOP SLAB REINFORCEMENT (BOTTOM LAYER)		BOTTOM SLAB REINFORCEMENT (TOP LAYER)		WALL	
	BAR SIZE AND SPACING (E.W.)	STEEL AREA in²/ft	BAR SIZE AND SPACING (E.W.)	STEEL AREA in²/ft	THICKNESS "t"	STEEL AREA in²/ft
72"	#6 @ 10"	0.53	#5 @ 12"	0.31	7"	0.24
84"	#6 @ 9"	0.59	#4 @ 6"	0.40	7"	0.24
96"	#6 @ 8"	0.66	#5 @ 12"	0.44	8"	0.30

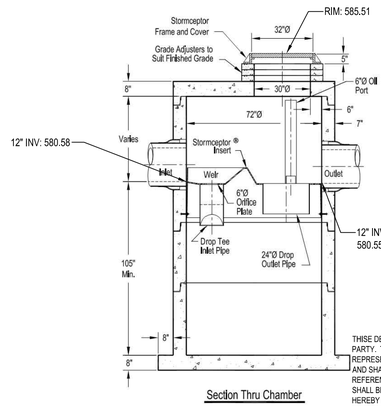
FLOW RESTRICTOR WITH NO OVER FLOW

REVISION DATE:	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES	SCALE: NOT TO SCALE
DIRECTOR OF ENGINEERING	ENGINEERING DIVISION/PERMIT OFFICE	FR-1
DIVISION PERMIT ENGINEER	PERMIT STANDARDS	SHEET 1 OF 1
	PRECAST FLOW RESTRICTOR STRUCTURE	

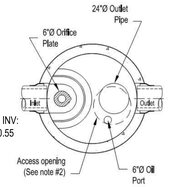
NOTE: THIS IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL SIGNED COPY FOR PUBLICATION IS KEPT ON FILE AT THE WAYNE COUNTY ENGINEERING OFFICES.

STC 1800 Precast Concrete Stormceptor® (1800 U.S. Gallon Capacity)

CONTRACTOR SHALL PROVIDE SHOP DRAWING.



Section Thru Chamber



Plan View

Notes:
1. The Use Of Flexible Connection Is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

NOTE:
THE STORMCEPTOR STRUCTURE MUST BE FABRICATED AS PER SHOP DRAWINGS THAT HAVE BEEN APPROVED BY WAYNE COUNTY. THE MANUFACTURER MUST CONTACT WAYNE COUNTY TESTING OFFICE AT (734) 595-6504 x2015 AT LEAST 3 WORKING DAYS PRIOR TO FABRICATION TO SCHEDULE INSPECTION DURING FABRICATION.

NOTE:
PRIOR TO INSTALLATION, MECHANICAL SEPARATOR COMPONENTS SHALL BE TESTED AND APPROVED BY THE WAYNE COUNTY TESTING OFFICE AND OBSERVED DURING INSTALLATION BY THE WAYNE COUNTY ENGINEER.

10. Installation

The installation of the concrete Stormceptor should conform in general to state highway, or local specifications for the installation of manholes. Selected sections of a general specification that are applicable are summarized in the following sections.

10.1. Excavation

Excavation for the installation of the Stormceptor should conform to state highway, or local specifications. Topsoil removed during the excavation for the Stormceptor should be stockpiled in designated areas and should not be mixed with subsoil or other materials. Topsoil stockpiles and the general site preparation for the installation of the Stormceptor should conform to state highway or local specifications.

The Stormceptor should not be installed on frozen ground. Excavation should extend a minimum of 12 inches (300 mm) from the precast concrete surfaces plus an allowance for shoring and bracing where required. If the bottom of the excavation provides an unsuitable foundation additional excavation may be required.

In areas with a high water table, continuous dewatering may be required to ensure that the excavation is stable and free of water.

10.2. Backfilling

Backfill material should conform to state highway or local specifications. Backfill material should be placed in uniform layers not exceeding 12 inches (300mm) in depth and compacted to state highway or local specifications.

11. Stormceptor Construction Sequence

The concrete Stormceptor is installed in sections in the following sequence:

1. Aggregate base
2. Base slab
3. Lower chamber sections
4. Upper chamber section with fiberglass insert
5. Connect inlet and outlet pipes
6. Assembly of fiberglass insert components (drop tee, riser pipe, oil cleanout port and orifice plate
7. Remainder of upper chamber
8. Frame and access cover

The precast base should be placed level at the specified grade. The entire base should be in contact with the underlying compacted granular material. Subsequent sections, complete with joint seals, should be installed in accordance with the precast concrete manufacturer's recommendations.

Adjustment of the Stormceptor can be performed by lifting the upper sections free of the excavated area, re-leveling the base and re-installing the sections. Damaged sections and gaskets should be repaired or replaced as necessary. Once the Stormceptor has been constructed, any lift holes must be plugged with mortar.

12. Maintenance

12.1. Health and Safety

The Stormceptor System has been designed considering safety first. It is recommended that confined space entry protocols be followed if entry to the unit is required. In addition, the fiberglass insert has the following health and safety features:

- Designed to withstand the weight of personnel
- A safety grate is located over the 24 inch (600 mm) riser pipe opening
- Ladder rungs can be provided for entry into the unit, if required

12.2. Maintenance Procedures

Maintenance of the Stormceptor system is performed using vacuum trucks. No entry into the unit is required for maintenance (in most cases). The vacuum service industry is a well-established sector of the service industry that cleans underground tanks, sewers and catch basins. Costs to clean a Stormceptor will vary based on the size of unit and transportation distances.

The need for maintenance can be determined easily by inspecting the unit from the surface. The depth of oil in the unit can be determined by inserting a dipstick in the oil inspection/cleanout port.

Similarly, the depth of sediment can be measured from the surface without entry into the Stormceptor via a dipstick tube equipped with a ball valve. This tube would be inserted through the riser pipe. Maintenance should be performed once the sediment depth exceeds the guideline values provided in the Table 4.

Table 4. Sediment Depths indicating required servicing.

Sediment Depths Indicating Required Servicing *	
Model	Sediment Depth inches (mm)
450i	8 (200)
900	8 (200)
1200	10 (250)
1800	15 (381)
2400	12 (300)
3600	17 (430)
4800	15 (380)
6000	18 (460)
7200	15 (381)
11000	17 (380)
13000	20 (500)
16000	17 (380)
* based on 15% of the Stormceptor unit's total storage	

Although annual servicing is recommended, the frequency of maintenance may need to be increased or reduced based on local conditions (i.e. if the unit is filling up with sediment more quickly than projected, maintenance may be required semi-annually; conversely once the site has stabilized maintenance may only be required every two or three years).

Oil is removed through the oil inspection/cleanout port and sediment is removed through the riser pipe. Alternatively oil could be removed from the 24 inches (600 mm) opening if water is removed from the lower chamber to lower the oil level below the drop pipes.

The following procedures should be taken when cleaning out Stormceptor:

1. Check for oil through the oil cleanout port
2. Remove any oil separately using a small portable pump
3. Decant the water from the unit to the sanitary sewer, if permitted by the local regulating authority, or into a separate containment tank
4. Remove the sludge from the bottom of the unit using the vacuum truck
5. Re-fill Stormceptor with water where required by the local jurisdiction

12.3. Submerged Stormceptor

Careful attention should be paid to maintenance of the Submerged Stormceptor System. In cases where the storm drain system is submerged, there is a requirement to plug both the inlet and outlet pipes to economically clean out the unit.

12.4. Hydrocarbon Spills

The Stormceptor is often installed in areas where the potential for spills is great. The Stormceptor System should be cleaned immediately after a spill occurs by a licensed liquid waste hauler.

12.5. Disposal

Requirements for the disposal of material from the Stormceptor System are similar to that of any other stormwater Best Management Practice (BMP) where permitted. Disposal options for the sediment may range from disposal in a sanitary trunk sewer upstream of a sewage treatment plant, to disposal in a sanitary landfill site. Petroleum waste products collected in the Stormceptor (free oil/chemical/fuel spills) should be removed by a licensed waste management company.

12.6. Oil Sheens

With a steady influx of water with high concentrations of oil, a sheen may be noticeable at the Stormceptor outlet. This may occur because a rainbow or sheen can be seen at very small oil concentrations (<10 mg/L). Stormceptor will remove over 98% of all free oil spills from storm sewer systems for dry weather or frequently occurring runoff events.

The appearance of a sheen at the outlet with high influent oil concentrations does not mean the unit is not working to this level of removal. In addition, if the influent oil is emulsified the Stormceptor will not be able to remove it. The Stormceptor is designed for free oil removal and not emulsified conditions.

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

1	05.24.21	NTP/ENGINEERING REVISIONS
2	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

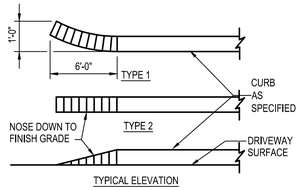
TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

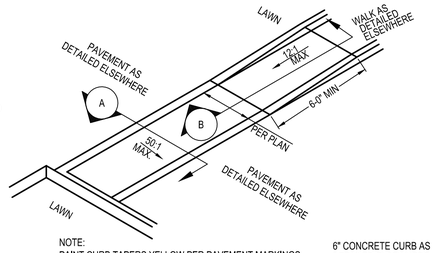
CONTROL STRUCTURE AND STORMCEPTOR DETAILS

C-135

PLOT DATE: 6-14-21

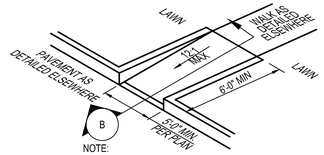


15 CURB TAPER
N.T.S.



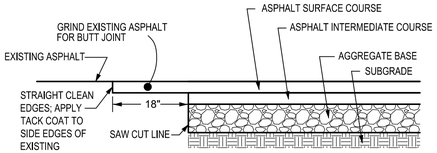
NOTE:
PAINT CURB TAPERS YELLOW PER PAVEMENT MARKINGS AND NOTES DETAIL. SEE THIS SHEET.

PARALLEL RAMP

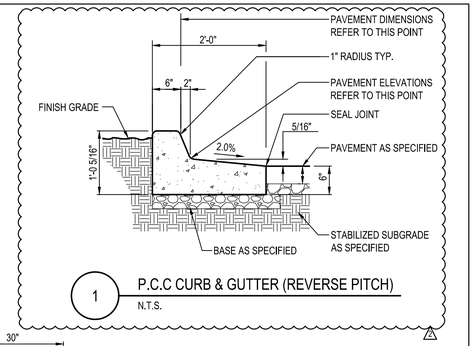


NOTE:
PAINT CURB TAPERS YELLOW PER PAVEMENT MARKINGS AND NOTES DETAIL, SEE THIS SHEET.

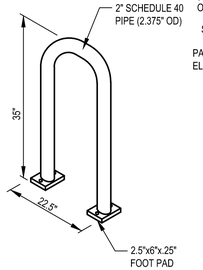
PERPENDICULAR RAMP

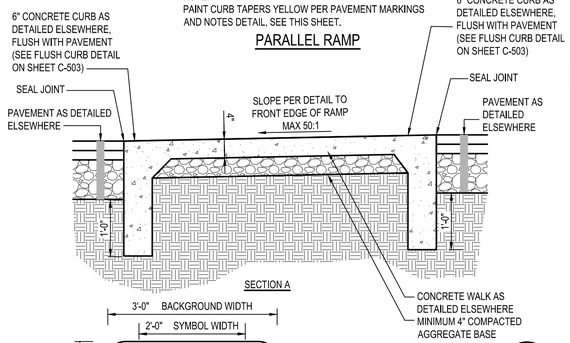


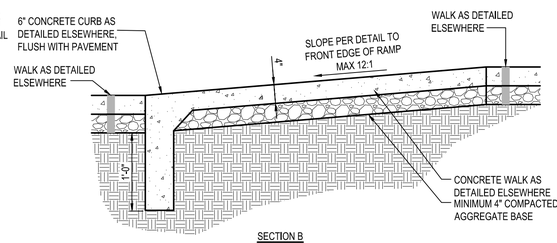
5 BUTT JOINT
N.T.S.



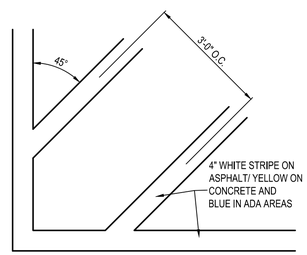
1 P.C.C CURB & GUTTER (REVERSE PITCH)
N.T.S.



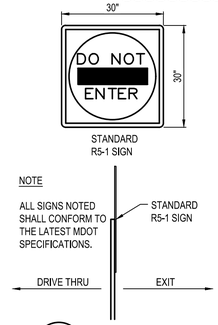




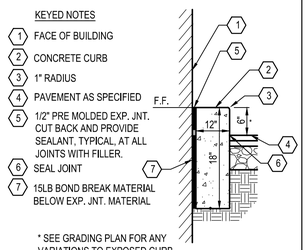
12 ADA ACCESSIBLE RAMP
N.T.S.



9 TRANSVERSE STRIPING
N.T.S.



6 DO NOT ENTER SIGN
N.T.S.



* SEE GRADING PLAN FOR ANY VARIATIONS TO EXPOSED CURB HEIGHT.

2 CURB AT DRIVE THRU
N.T.S.

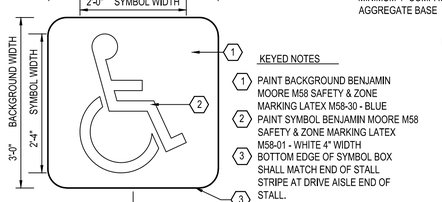
PRODUCT: DERO HOOP RACK HEAVY DUTY DERO BIKE RACKS
(OR APPROVED EQUAL)
WWW.DERO.COM
1-800-298-4915

CAPACITY: 2 BIKES

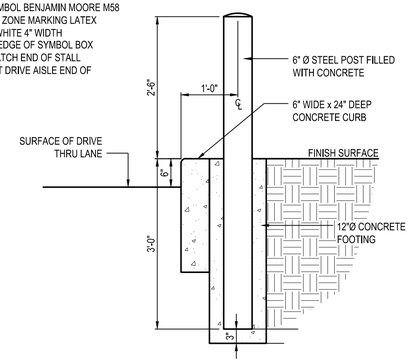
MATERIALS: 2" SCHEDULE 40 PIPE (2.375" OD)

CONTRACTOR SHALL COORDINATE FINISH AND PREFERRED INSTALLATION METHOD WITH CONSTRUCTION MANAGER.

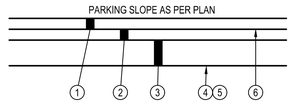
16 BIKE RACK DETAIL
N.T.S.



17 ADA PAVEMENT SYMBOL
N.T.S.



13 BOLLARD DETAIL
N.T.S.

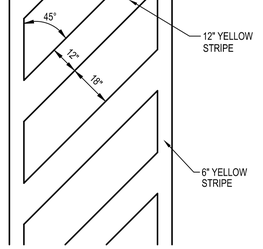


1. 1.5" ASPHALT CONCRETE SURFACE COURSE (MDOT 5E03)
2. 2.0" ASPHALT CONCRETE BINDER COURSE (MDOT 4E03)
3. 8" DENSE AGGREGATE BASE STONE (MDOT 21AA)
4. SUBGRADE COMPACTION (PER SOILS REPORT)
5. PROOF ROLLING
6. TACK COAT

NOTES:

1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT INCLUDING SAW CUT JOINTS.

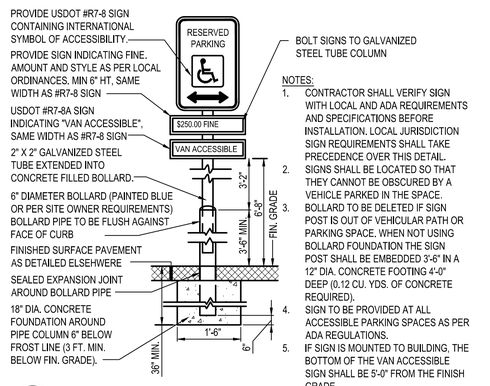
10 LIGHT DUTY ASPHALT PAVEMENT SECTION
N.T.S.



7 CROSSWALK STRIPING
N.T.S.

18 CURB
N.T.S.

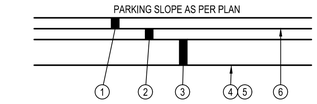
BOLLARD (IN CURB)
N.T.S.



NOTES:
1. CONTRACTOR SHALL VERIFY SIGN WITH LOCAL AND ADA REQUIREMENTS AND SPECIFICATIONS BEFORE INSTALLATION. LOCAL JURISDICTION SIGN REQUIREMENTS SHALL TAKE PRECEDENCE OVER THIS DETAIL.
2. SIGNS SHALL BE LOCATED SO THAT THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
3. BOLLARD TO BE DELETED IF SIGN POST IS OUT OF VEHICULAR PATH OR PARKING SPACE. WHEN NOT USING BOLLARD FOUNDATION THE SIGN POST SHALL BE EMBEDDED 3'-6" IN A 12" DIA. CONCRETE FOOTING 4'-0" DEEP (0.12 CU. YDS. OF CONCRETE REQUIRED).
4. SIGN TO BE PROVIDED AT ALL ACCESSIBLE PARKING SPACES AS PER ADA REGULATIONS.
5. IF SIGN IS MOUNTED TO BUILDING, THE BOTTOM OF THE VAN ACCESSIBLE SIGN SHALL BE 5'-0" FROM THE FINISH GRADE.

NOTES:
CONTRACTOR SHALL LOCATE BELOW GRADE UTILITIES PRIOR TO INSTALLATION OF BOLLARD.

14 HANDICAPPED PARKING SIGN
N.T.S.



1. 2.5" ASPHALT CONCRETE SURFACE COURSE (MDOT LVSP)
2. 2.5" ASPHALT CONCRETE BINDER COURSE (MDOT LVSP)
3. 8" DENSE AGGREGATE BASE STONE (MDOT 21AA)
4. SUBGRADE COMPACTION (PER SOILS REPORT)
5. PROOF ROLLING
6. TACK COAT

NOTES:

1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT INCLUDING SAW CUT JOINTS.

11 HEAVY DUTY ASPHALT PAVEMENT SECTION
N.T.S.

NOTES:

ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE.

MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:

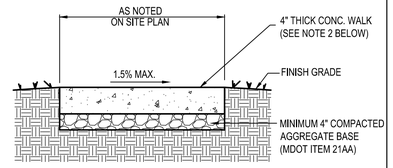
EXISTING SURFACES WITHOUT ANY SEAL COATING: OIL BASE (ALKYD RESIN TYPE TO MEET FEDERAL SPECIFICATION TTP-1952.

NEW OR EXISTING SURFACES WITH A TOP COATING OR SEAL COATING (USUALLY WATER BASE FAST DRYING 100% ACRYLIC TYPE): WATER BASE TYPE TO MEET FEDERAL SPECIFICATION TTP-01952. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D1394, D3723, D1475, D562, AND D711

PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.

APPLY 2 COATS WITH STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.

8 PAVEMENT MARKINGS & NOTES
N.T.S.



NOTES:

1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.
2. USE FIBER CONCRETE, SEE SPECIFICATIONS ON SHEET C-001.

4 P.C.C. WALK
N.T.S.

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

1	05.24.21	NTP/ENGINEERING REVISIONS
2	06.14.21	ISSUED FOR BID

CONTRACT DATE:	-
BUILDING TYPE:	ENDEAVOR XS-6
PLAN VERSION:	-
BRAND DESIGNER:	
SITE NUMBER:	313798
STORE NUMBER:	2019088.10

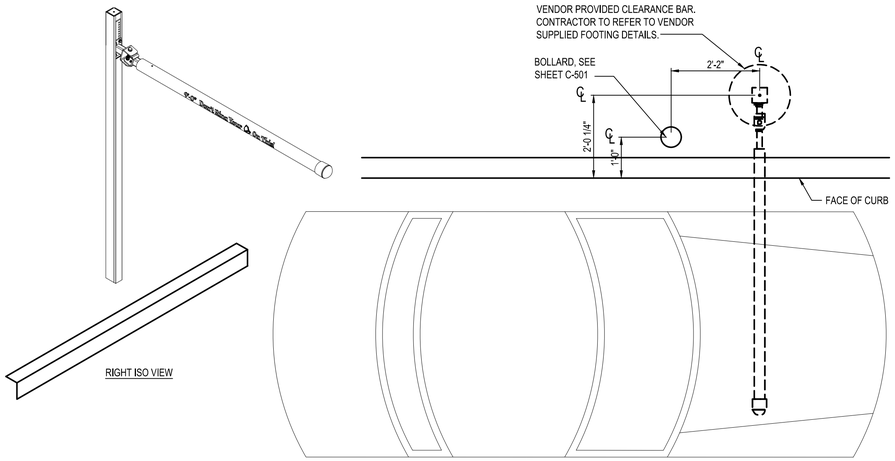
TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

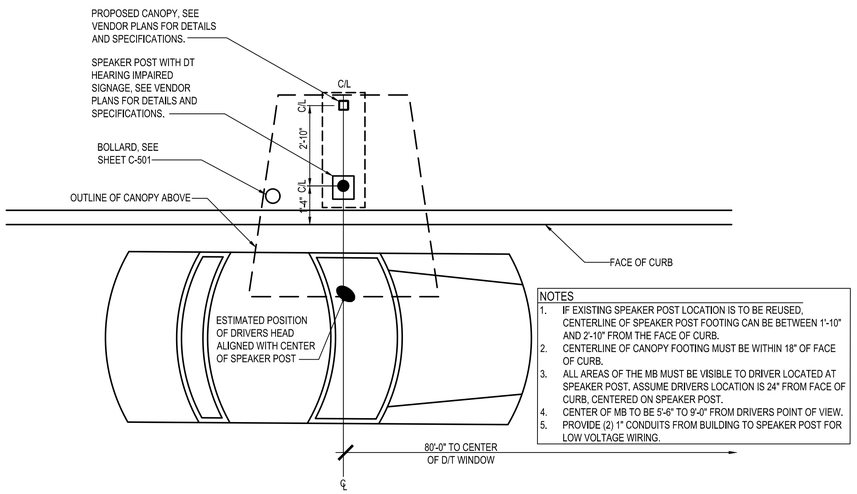
DETAILS

C-501

PLOT DATE: 6-14-21

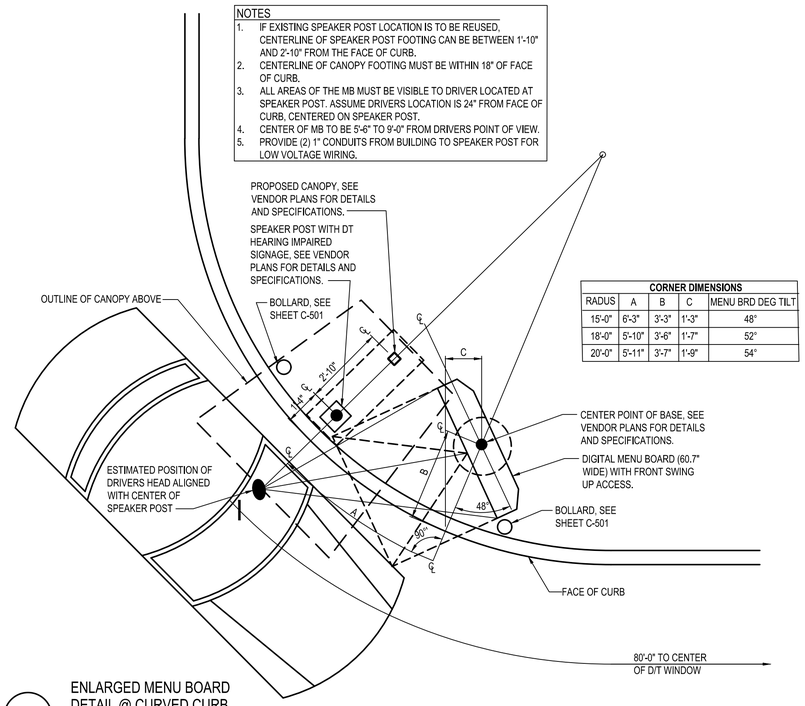


C1 PORTAL PLACEMENT DETAIL
N.T.S.



NOTES
1. IF EXISTING SPEAKER POST LOCATION IS TO BE REUSED, CENTERLINE OF SPEAKER POST FOOTING CAN BE BETWEEN 1'-10" AND 2'-10" FROM THE FACE OF CURB.
2. CENTERLINE OF CANOPY FOOTING MUST BE WITHIN 18" OF FACE OF CURB.
3. ALL AREAS OF THE MB MUST BE VISIBLE TO DRIVER LOCATED AT SPEAKER POST. ASSUME DRIVERS LOCATION IS 24" FROM FACE OF CURB, CENTERED ON SPEAKER POST.
4. CENTER OF MB TO BE 5'-6" TO 9'-0" FROM DRIVERS POINT OF VIEW.
5. PROVIDE (2) 1" CONDUITS FROM BUILDING TO SPEAKER POST FOR LOW VOLTAGE WIRING.

A1 ENLARGED SPEAKER POST DETAIL @ STRAIGHT CURB
N.T.S.



NOTES
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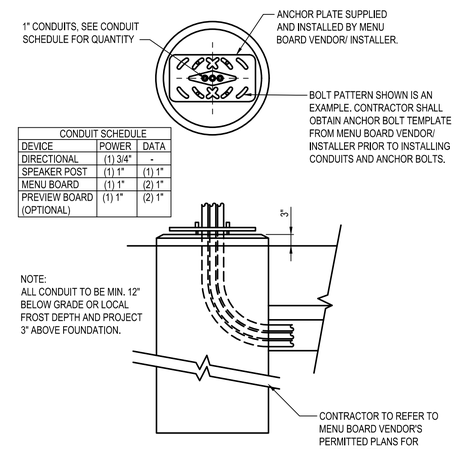
2. CENTERLINE OF CANOPY FOOTING MUST BE WITHIN 18" OF FACE OF CURB.
3. ALL AREAS OF THE MB MUST BE VISIBLE TO DRIVER LOCATED AT SPEAKER POST. ASSUME DRIVERS LOCATION IS 24" FROM FACE OF CURB, CENTERED ON SPEAKER POST.
4. CENTER OF MB TO BE 5'-6" TO 9'-0" FROM DRIVERS POINT OF VIEW.
5. PROVIDE (2) 1" CONDUITS FROM BUILDING TO SPEAKER POST FOR LOW VOLTAGE WIRING.

CORNER DIMENSIONS				
RADUS	A	B	C	MENU BRD DEG TILT
15'-0"	6'-3"	3'-3"	1'-3"	48°
18'-0"	5'-10"	3'-6"	1'-7"	52°
20'-0"	5'-11"	3'-7"	1'-9"	54°

A3 ENLARGED MENU BOARD DETAIL @ CURVED CURB
N.T.S.



CONDUIT SCHEDULE		
DEVICE	POWER	DATA
DIRECTIONAL	(1) 3/4"	-
SPEAKER POST	(1) 1"	(1) 1"
MENU BOARD	(1) 1"	(2) 1"
PREVIEW BOARD (OPTIONAL)	(1) 1"	(2) 1"

A4 FOUNDATION CONDUIT DETAIL
N.T.S.

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

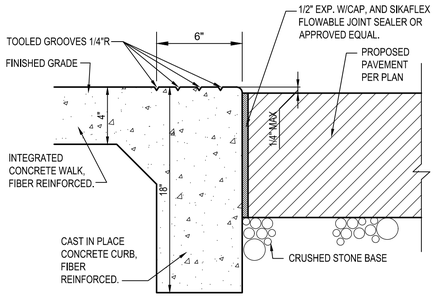
1	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

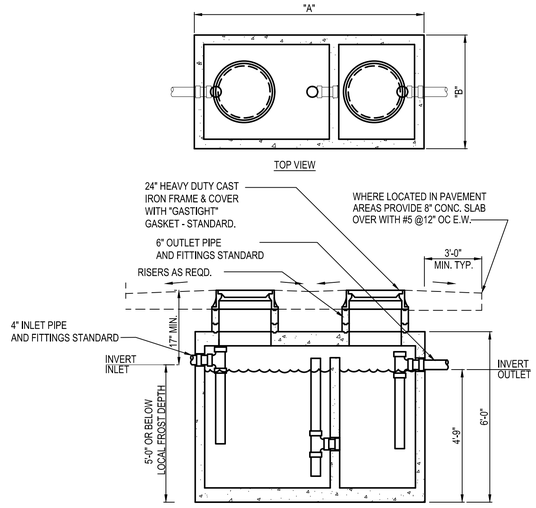
TACO BELL
END XS6
DETAILS

C-502
PLOT DATE: 6-14-21



NOTES:
1. REFER TO SITE PLAN NOTES ON SHEET C-001 FOR CONCRETE SPECIFICATIONS.
2. SIDEWALK WIDTH AS SHOWN ON PLANS.

1 FLUSH CURB
N.T.S.

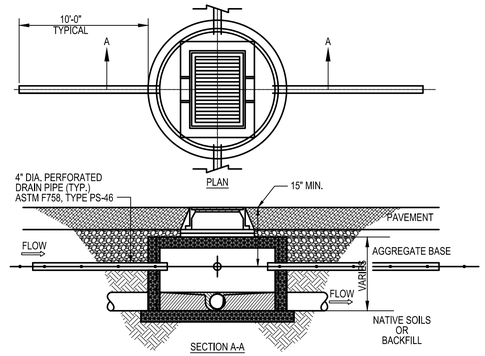


G.T. SIZE	DIM. "A"	DIM. "B"
500 GALLON	6'-2"	4'-2"
750 GALLON	8'-1"	4'-0"
1000 GALLON	8'-2"	5'-1"
1250 GALLON	8'-6"	5'-9"
1500 GALLON	*	*

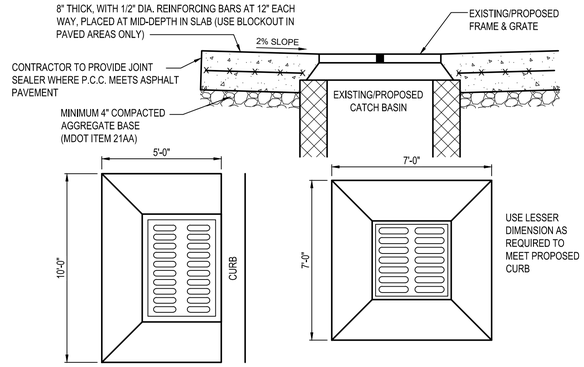
* PER MANUFACTURER SPECIFICATIONS.

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

2 EXTERIOR GREASE INTERCEPTOR
N.T.S.

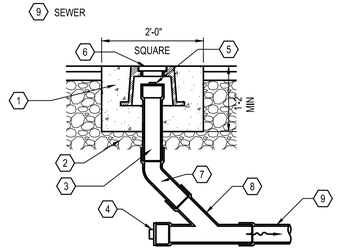


3 FINGER DRAIN DETAIL
N.T.S.



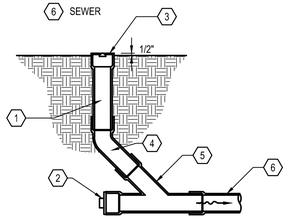
4 CONCRETE COLLAR
N.T.S.

KEYED NOTES
1. CONCRETE, MATCH PAVEMENT SPEC.
2. 6" (MIN.) AGGREGATE BASE
3. 6" DIA. CLEAN-OUT PIPE
4. CAP AND SEAL CONDUIT
5. THREADED CLEAN-OUT CAP
6. CAST-IRON MONUMENT BOX, EJIW 1565 OR APPROVED EQUAL.
7. 45° BEND
8. WYE
9. SEWER

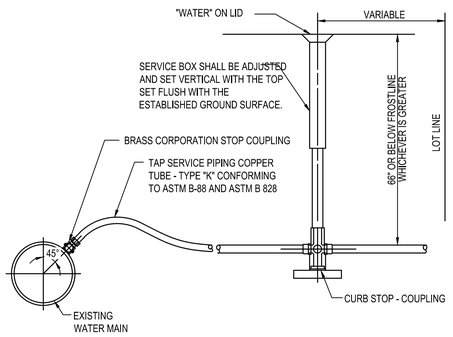


7 CLEAN OUT (PAVEMENT AREA)
N.T.S.

KEYED NOTES
1. 6" DIA. CLEAN-OUT PIPE
2. CAP AND SEAL CONDUIT
3. THREADED CLEAN-OUT CAP WITH INVERTED NUT
4. 45° BEND
5. WYE
6. SEWER



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



5 WATER SERVICE TAP
N.T.S.

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

1	06.14.21	ISSUED FOR BID
2		
3		
4		
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6		
7		
8		
9		

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

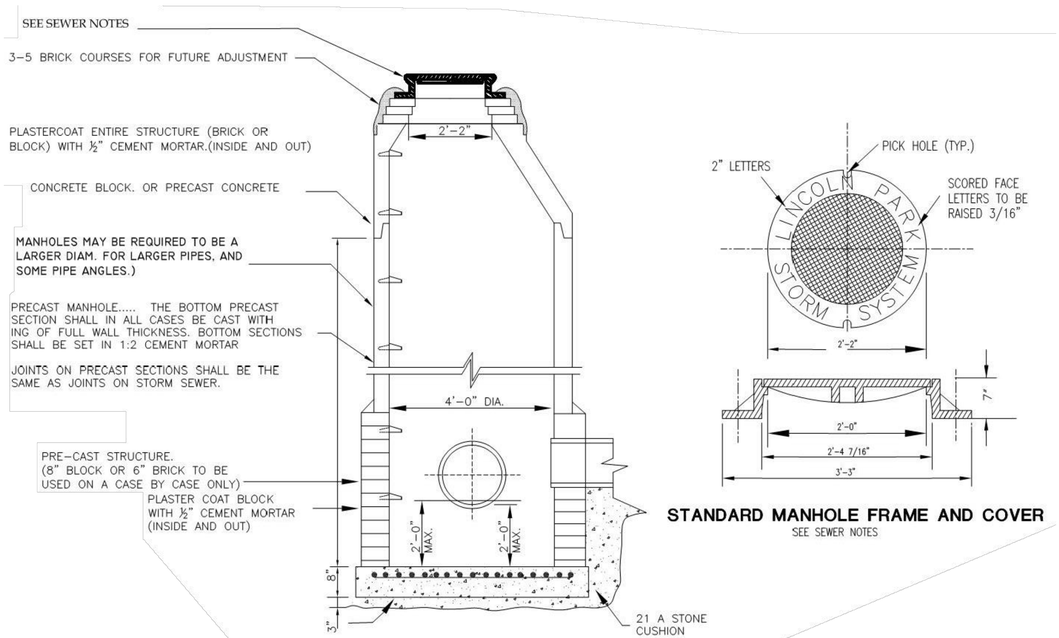
TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

END XS6

DETAILS

C-503

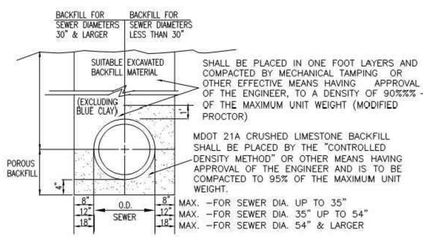
PLOT DATE: 6-14-21



STANDARD STORM MANHOLE FOR SEWER WITH OUTLETS OF 18" & UNDER

STANDARD MANHOLE FRAME AND COVER

SEE SEWER NOTES



SHALL BE PLACED IN ONE FOOT LAYERS AND COMPACTED BY MECHANICAL TAMPING OR OTHER EFFECTIVE MEANS HAVING APPROVAL OF THE ENGINEER, TO A DENSITY OF 90%%% OF THE MAXIMUM UNIT WEIGHT (MODIFIED PROCTOR)

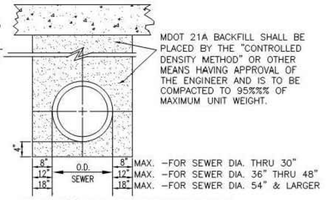
MDOT 21A CRUSHED LIMESTONE BACKFILL SHALL BE PLACED BY THE "CONTROLLED DENSITY METHOD" OR OTHER MEANS HAVING APPROVAL OF THE ENGINEER AND IS TO BE COMPACTED TO 95% OF THE MAXIMUM UNIT WEIGHT.

MAX. –FOR SEWER DIA. UP TO 35"
MAX. –FOR SEWER DIA. 35" UP TO 54"
MAX. –FOR SEWER DIA. 54" & LARGER

SEWER TRENCH "A"

NOTE:
PVC PIPE:
MIN. TRENCH WIDTH = 1.5 X O.D.+12"
(FOR ALL INSTALLATION DEPTHS)

HDPE PIPE:
MIN. TRENCH WIDTH=O.D.+36"
(FOR INSTALLATION DEPTHS UP TO 10')
MIN. TRENCH WIDTH=3XO.D.
(FOR INSTALLATION DEPTHS BELOW 10')
(O.D. = OUTSIDE DIAMETER OF PIPE)



MDOT 21A BACKFILL SHALL BE PLACED BY THE "CONTROLLED DENSITY METHOD" OR OTHER MEANS HAVING APPROVAL OF THE ENGINEER AND IS TO BE COMPACTED TO 95%%% OF MAXIMUM UNIT WEIGHT.

MAX. –FOR SEWER DIA. THRU 30"
MAX. –FOR SEWER DIA. 36" THRU 48"
MAX. –FOR SEWER DIA. 54" & LARGER

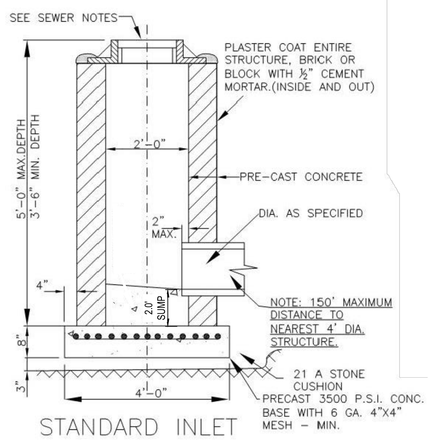
TRENCH "B" SHALL BE USED UNDER ROADS SURFACES, PAVEMENT, SIDEWALK, CURB, AGGREGATE AND PAVED DRIVES AND WHERE THE EDGE OF TRENCH IS WITHIN 3 FEET OF THE PAVEMENT.

SEWER TRENCH "B"

MAX WIDTH OF TRENCH 12" ABOVE TOP OF PIPE
6" THRU 12" PIPE 30" WIDE
15" THRU 36" PIPE O.D. +16"
42" THRU 60" PIPE O.D. +24"
MIN WIDTH OF TRENCH 12" ABOVE TOP OF PIPE SHALL BE 6" ON EACH SIDE OF PIPE

NOTE:
PVC PIPE:
MIN. TRENCH WIDTH = 1.5 X O.D.+12"
(FOR ALL INSTALLATION DEPTHS)

HDPE PIPE:
MIN. TRENCH WIDTH=O.D.+36"
(FOR INSTALLATION DEPTHS UP TO 10')
MIN. TRENCH WIDTH=3XO.D.
(FOR INSTALLATION DEPTHS BELOW 10')
(O.D. = OUTSIDE DIAMETER OF PIPE)



STANDARD INLET

SEWER NOTES:

1. ALL CASTING RIMS SHALL BE SET TO GRADE AS FURNISHED BY THE ENGINEER.
2. CATCH BASINS, MANHOLES & INLET FRAME & COVERS SHALL BE SPECIFIED AS FOLLOWS:
   a. WHEN LOCATED IN PAVEMENT FRAME AND COVER SHALL BE E.J.I.W. No. 5080 WITH M1 COVER. (UNLESS NOTED OTHERWISE ON PLANS).
3. MANHOLE STEPS:
   BLOCK–COPOLYMER POLYPROPYLENE PLASTIC WITH ½" STEEL REINFORCEMENT.
   BRICK–COPOLYMER POLYPROPYLENE PLASTIC WITH ½" STEEL REINFORCEMENT.
4. A METAL RECORDING DETECTOR TAPE SUCH AS MANUFACTURED BY GRIFFOLYN UNDER THE BRAND NAME"TERRATAPE", P.O. BOX 33248 HOUSTON, TEXAS 77033, SHALL BE INSTALLED OVER THE STORM SEWER.

ALL DETAILS ON THIS PAGE ARE CITY OF LINCOLN PARK DETAILS PROVIDED BY:

HENNESSEY ENGINEERS, INC.
ENGINEERING THE FUTURE.
13500 REECK ROAD
SOUTHGATE, MI 48195
(734) 759-1600
FAX (734) 282-6566
WWW.HENGINEERS.COM

SHEET: STM 1 , DATED 12/17/09
WD 2 , DATED 12/21/09

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

FOR REFERENCE ONLY

1	05.24.21	NTP/ENGINEERING REVISIONS
2	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL

END XS6

DETAILS

C-504

PLOT DATE: 6-14-21

LANDSCAPE NOTES & PLANTING SPECIFICATIONS

SCOPE OF WORK

1. THIS WORK SHALL CONSIST OF PERFORMING CLEARING AND GRUBBING, SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.

2. QUANTITY TAKEOFF IS SUPPLIED FOR CONTRACTOR'S ASSISTANCE ONLY. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL PLANT MATERIALS AS PER PLAN.

3. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR WITHIN EASEMENT OR RIGHT-OF-WAY LIMITS.

PRESERVATION/PROTECTION (IF APPLICABLE)

1. CONTRACTOR SHALL MAINTAIN AND PRESERVE TREES AND SHRUBS NOT BEING REMOVED, INCLUDING THEIR ROOTS. TREE PROTECTION FENCING SHALL BE USED AT THE DRIP LINE OF ALL TREES AND SHRUBS WITHIN 50 FEET OF CONSTRUCTION EXCEPT AS SHOWN ON PLAN. FENCING SHALL REMAIN IN PLACE UNTIL FINAL PLANT INSPECTION FOLLOWING CONSTRUCTION. MATERIALS SHALL NOT BE STOCKPILED WITHIN THIS DEFINED AREA AND VEHICLES AND OTHER EQUIPMENT SHALL BE OPERATED TO AVOID SOIL COMPACTION.

2. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA EQUAL TO TWICE THE TREE CIRCUMFERENCE (MEASURED 6" ABOVE THE GROUND LINE IN INCHES) EXPRESSED IN FEET. (EXAMPLE: A CIRCUMFERENCE OF 10" WOULD HAVE A 'NO CUT' ZONE OF 20 FEET IN ALL DIRECTIONS FROM THE TREE). THIS SHOULD APPLY TO UTILITY SERVICES, IF FEASIBLE. THE ONLY EXCEPTION TO THIS REQUIREMENT WILL BE THOSE SPECIFICALLY ALLOWED BY THE LANDSCAPE ARCHITECT, SPECIFICATIONS OR AS INDICATION ON THE PLANS.

3. TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING EQUIPMENT OPERATIONS SHALL BE TREATED IN ACCORDANCE WITH THE ARBOR CULTURAL STANDARDS OF THE CITY.

PLANT MATERIALS

1. GENERAL - ALL MATERIALS SHALL BE OF ITS KIND AVAILABLE AND SHALL HAVE BEEN GROWN IN A CLIMATE SIMILAR TO THAT ON SITE.

2. PLANTS - ALL PLANTS SHALL BE HEALTHY, OF NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS, QUALITY AND SIZE OF PLANT MATERIAL SHALL CONFORM TO ANSI Z60.1 "AMERICAN STANDARDS FOR NURSERY STOCK".

3. VARIETIES AND SIZES OF PLANTS SHALL BE AS SHOWN ON DRAWINGS.

4. PLANTS SHALL BE IN A HEALTHY, VIGOROUS CONDITION, FREE OF DEAD OR BROKEN BRANCHES, SCARS THAT ARE NOT COMPLETELY HEALED, FROST CRACKS, DISFIGURING KNOTS, BROKEN OR ABRADED BARK, REDUNDANT LEADERS OR BRANCHES, OR ABERRATIONS OF ANY KIND. PLANTS SHALL NOT HAVE MULTIPLE LEADERS, UNLESS THIS IS THE NATURAL FORM.

5. BALLED AND BURLAPPED (B&B) PLANTS SHALL BE DUG WITH A FIRM ROOT BALL OF NATURAL EARTH, OF A SIZE IN PROPORTION TO THE PLANT'S SIZE, AS MEASURED BY CALIPER, HEIGHT, OR SPREAD. BALLED AND BURLAPPED PLANTS SHALL BE HANDLED ONLY BY THE ROOT BALL, NOT BY THE TRUNK OR BRANCHES, AS THIS MAY BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM. CONTAINER PLANTS SHALL HAVE BEEN ESTABLISHED FOR A MINIMUM OF ONE FULL GROWING SEASON IN THEIR CONTAINERS BEFORE INSTALLATION. CONTAINER PLANTS SHALL BE HANDLED ONLY BY THE CONTAINER, NOT BY THE STEMS OR BRANCHES, AS THIS MAY PULL THE PLANT OUT OF THE CONTAINER AND BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM.

6. PLANTS SHALL BE PROTECTED FROM DRYING OUT DURING SHIPPING WITH TARPAULINS OR OTHER COVERINGS. PLANTS SHALL BE PROTECTED FROM DRYING OUT AFTER DELIVERY BY PLANTING IMMEDIATELY; IF THIS IS NOT POSSIBLE, THE ROOT BALL SHALL BE COVERED WITH PEAT MOSS OR EARTH, AND WATERED FREQUENTLY TO KEEP IT MOIST UNTIL PLANTING.

7. DO NOT HANDLE, MOVE, BIND, TIE OR OTHERWISE TREAT PLANTS SO AS TO DAMAGE THE ROOT BALL, ROOTS, TRUNK, OR BRANCHES IN ANY WAY.

TOPSOIL

1. TOPSOIL HAS BEEN (OR WILL BE) STOCKPILED FOR REUSE IN LANDSCAPE WORK. IF QUANTITY OF STOCKPILED TOPSOIL IS INSUFFICIENT, PROVIDE ADDITIONAL TOPSOIL AS REQUIRED TO COMPLETE LANDSCAPE WORK. IMPORTED TOPSOIL SHALL CONSIST OF LOOSE, FRIABLE, LOAMY TOPSOIL WITHOUT ADMIXTURE OF SUBSOIL OR REFUSE. ACCEPTABLE TOPSOIL SHALL CONTAIN NOT LESS THAN 3 PERCENT NOR MORE THAN 20 PERCENT ORGANIC MATTER.

2. PLANTING BACKFILL FOR PARKING LOT ISLANDS SHALL CONSIST OF A HOMOGENEOUS MIXTURE OF 3 PARTS TOPSOIL TO ONE PART SPHAGNUM PEAT INSTALLED OVER A 6" THICKNESS OF NO. 57 AGGREGATE.

SOIL CONDITIONING

1. OBTAIN LABORATORY ANALYSIS OF STOCKPILED AND IMPORTED TOPSOIL COMPLETE WITH RECOMMENDATIONS FOR SOIL AMENDMENT.

2. BEFORE MIXING, CLEAN TOPSOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH.

3. MIX SPECIFIED SOIL AMENDMENTS AND FERTILIZERS WITH TOPSOIL AT RATES SPECIFIED BY THE LAB REPORT. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW PLACING OF PLANTING SOIL WITHIN A FEW DAYS.

4. FOR PLANTING BEDS AND LAWNS, MIX PLANTING SOIL EITHER PRIOR TO PLANTING OR APPLY ON SURFACE OF TOPSOIL AND MIX THOROUGHLY BEFORE PLANTING. MIX LIME WITH DRY SOIL PRIOR TO MIXING OF FERTILIZER.

5. PREVENT LIME FROM CONTACTING ROOTS OF ACID-LOVING PLANTS.

6. APPLY PHOSPHORIC ACID FERTILIZER (OTHER THAN THAT CONSTITUTING A PORTION OF COMPLETE FERTILIZERS) DIRECTLY TO SUBGRADE BEFORE APPLYING PLANTING SOIL AND TILLING.

PLANTING SOIL

1. PLANTING SOIL MIX SHALL BE CLEAR OF ALL STONES AND DEBRIS 1" OR LARGER, AND CONSIST OF THE FOLLOWING: 25% ORGANIC COMPOST, 75% ACCEPTABLE TOPSOIL.

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: ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS AND SUITABLE FOR TOP DRESSING OF TREES, SHRUBS, OR PLANTS AND CONSISTING OF THE FOLLOWING:

   a. RIVER ROCK MULCH AREA: AGGREGATE MULCH, 3/4"-2" IN SIZE, WASHED AND ROUNDED, SHALL BE INSTALLED WITHIN THE RIVER ROCK MULCH AREA PER THE PLAN. RIVER ROCK MULCH SHALL BE INSTALLED AT 3" INCHES DEPTH.

   b. DECOMPOSED GRANITE MULCH AREA: COLOR SHALL MATCH RIVIER ROCK MULCH AND BE APPROVED BY OWER. SHALL BE INSTALLED WITHIN THE DECOMPOSED GRANITE MULCH AREA PER THE PLAN. DECOMPOSED GRANITE MULCH SHALL BE INSTALLED AT 2" INCHES DEPTH.

   c. NON-DRYED, DOUBLE SHREDDED HARDWOOD SHALL BE INSTALLED IN ALL OTHER LANDSCAPE BEDS OUTSIDE OF THE RIVER ROCK MULCH AREA AT A DEPTH OF 3 INCHES.

GENERAL WORK PROCEDURES

1. 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

1. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE OWNER BEFORE EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.

2. PLANTING PITS SHALL BE AS PER DETAILS.

3. PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT. FILL WITH PLANTING SOIL AROUND BALL OF PLANT. COMPLETE BACKFILLING AND WATER THOROUGHLY.

4. EACH TREE AND SHRUB SHALL RECEIVE THE LANDSCAPER'S BIONUTRITION (3-0-3) GRANULAR WITH MYCORRHIZAL TECHNOLOGY FERTILIZER OR APPROVED OTHER. APPLY FERTILIZER PER MANUFACTURER'S SPECIFICATIONS.

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 PER MATERIALS SPECIFICATION AND DETAILS.

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.

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.

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.

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.

MAINTENANCE

(MAINTENANCE PERIOD TO COMMENCE AFTER FINAL INSPECTION.)

1. MAINTENANCE PERIOD FOR THIS CONTRACT SHALL BE 90 CALENDAR DAYS COMMENCING AFTER FINAL INSPECTION OF CONSTRUCTION.

2. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH; RESTORE PLANTING SAUCERS. RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED.

3. MAINTAIN LAWNS BY WATERING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

4. MAINTAIN THE LANDSCAPING BY KEEPING ALL PLANTS DISEASE-FREE AND PLANTING BEDS GROOMED, EXCEPT IN NATURALLY OCCURRING VEGETATION AREAS.

5. REPLACE ANY REQUIRED PLANTING(S), WHICH SEVERELY DECLINE OR DIE AFTER THE DATE OF PLANTING. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT APPROPRIATE PLANTING SEASON.

SODDING

1. SOD SHALL BE FIRST GRADE CERTIFIED BLENDS OF THE FOLLOWING SPECIES PER HARDINESS ZONE CONTAINING NOT MORE THAN 30 PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS.

   ZONES 3, 4 & 5: APPROVED BLUE GRASS BLEND
   ZONE 6: APPROVED FESCUE BLEND
   ZONES 7 & 8: APPROVED BERMUDA BLEND
   ZONES 9 & 10: APPROVED ST AUGUSTINE FLORATAM BLEND

2. 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.

3. SOD SHALL BE CUT TO A DEPTH EQUAL TO THE GROWTH OF THE FIBROUS ROOTS BUT IN NO CASE LESS THAN 1 INCH.

4. SOD SHALL BE DELIVERED TO THE JOB WITHIN 24 HOURS AFTER BEING CUT AND SHALL BE INSTALLED WITHIN 48 HOURS AFTER BEING CUT.

5. 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.

6. 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).

7. 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.

8. THE CONTRACTOR SHALL KEEP ALL SODDED AREAS INCLUDING SUBGRADE, THOROUGHLY MOIST FOR 30 DAYS AFTER SODDING.

9. 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.

SEEDING

1. GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS' "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.

2. ALL AREAS TO BE SEEDED SHALL RECEIVE NO LESS THAN FIVE POUNDS OF SEED PER ONE THOUSAND SQUARE FEET. APPLY SEED AND PROTECT WITH STRAW MULCH AS REQUIRED FOR NEW LAWNS. GRASS SEED MIX SHALL CONSIST OF THE FOLLOWING:

PROPORTION	NAME	MIN.% GERM.	MIN.% PURE SEED	MAX.% WEED SEED
30%	KENTUCKY BLUEGRASS (POA PRATENSIS)	80	85	0.50
30%	CREEPING RED FESCUE (FESTUCA RUBRA)	85	98	0.50
20%	PERENNIAL RYE GRASS (LOLIUM PERENNE)	90	98	0.50
20%	ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	85	92	1.00

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

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

1	06.14.21	ISSUED FOR BID

CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

LANDSCAPE NOTES

L-001

PLOT DATE: 6-14-21

PLANT LIST - TREES

Symbol	Botanical Name	Common Name	Qty.	Min. Size	Condition	Remarks
Gb	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	4	2.5" Cal.	B&B	Specimen
Gt	Gleditsia f. inermis 'Street Keeper'	Street Keeper Honeylocust	2	2.5" Cal.	B&B	Specimen
Lt	Liriodendron tulipfera 'Fastigiatum'	Columnar Tulip Tree	5	2.5" Cal.	B&B	Specimen
Sr	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	6	2.5" Cal.	B&B	Matching
Te	Thuja occidentalis 'Emerald'	Emerald Arborvitae	3	6' H	B&B	4' o/c

PLANT LIST - SHRUBS / PERENNIALS / ORNAMENTAL GRASSES

Symbol	Botanical Name	Common Name	Qty.	Min. Size	Condition	Remarks
Bx	Buxus x 'Green Gem'	Green Gem Boxwood	15	18" H	B&B	3' o/c
Ca	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Reed Grass	70	No. 2	Cont.	2.5' o/c
Fg	Festuca gluaca	Blue Fescue	27	No. 2	Cont.	Per Plan
Hb	Hemerocallis 'Going Bananas'	Going Bananas Daylily	104	No. 1	Cont.	1.5' o/c
Jc	Juniperus chinensis 'Sea Green'	Sea Green Juniper	21	24" H	B&B	5' o/c
Js	Juniperus scopulorum 'Wichita Blue'	Wichita Blue Juniper	1	5' H	B&B	Specimen
Pf	Potentilla fruticosa 'Goldfinger'	Goldfinger Potentilla	28	No. 3, 18" H	Cont.	3' o/c
Tr	Thuja occidentalis 'Rheingold'	Dwarf Golden Arborvitae	4	24" H	Cont.	4' o/c
Yf	Yucca filamentosa 'Color Guard'	Color Guard Yucca	4	No. 3	Cont.	Per Plan

BENCHMARKS:
NORTH 69°48'00" WEST, BEING THE NORTHERLY RIGHT OF WAY OF CLEOPHUS PARKWAY, AS PLATTED. ELEVATIONS ARE NAVD 88 DATUM.

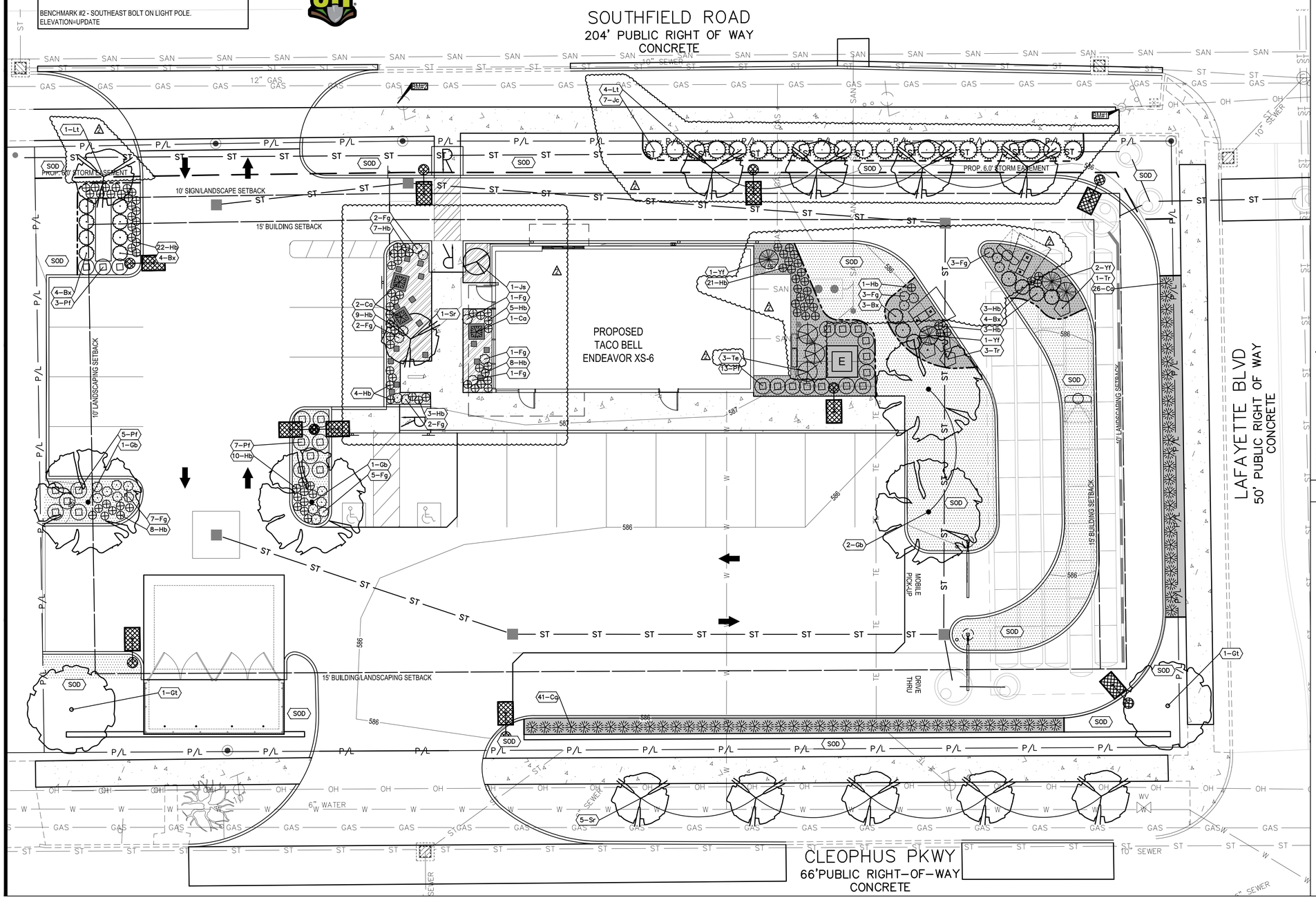
BENCHMARK #1 - PAINT "X" ON EXPOSED BOLT ON TRAFFIC POLE. ELEVATION=586.83'

BENCHMARK #2 - SOUTHEAST BOLT ON LIGHT POLE. ELEVATION=UPDATE

MISS DIG 811

N

0 10 20
5
1"=10'
Horizontal Scale in Feet



LANDSCAPE NOTES

1. MULCH PER LANDSCAPE SPECIFICATIONS.
2. ALL DISTURBED AREAS NOT TO BE PAVED OR MULCHED SHALL BE SODDED PER SPECIFICATIONS.
3. SEE SHEET L-101 FOR PLANT LIST.

LANDSCAPE LEGEND

- EXISTING TREE
- PROPOSED TREE
- PROPOSED SHRUB / PERENNIAL
- ##-Xx — PROPOSED PLANT QUANTITY AND SYMBOL
- SOD — PROPOSED SODDED AREA
- PROPOSED RIVER ROCK GRAVEL AREA
- PROPOSED INTERIOR LANDSCAPE AREA
- PROPOSED DECOMPOSED GRANITE AREA
- PROPOSED LANDSCAPE BED EDGE
- PROPOSED PLANTER (GC TO SUPPLY AND INSTALL) 36" X 36", 6" SQ. BLOCK WHITE COLOR COAT SMOOTH CEMENT
- PROPOSED SCULPTURE (GC TO SUPPLY AND INSTALL) 12"X12" TIMBER - IN GROUND 24" SANDED AND COLOR STAIN/PAINT TO MATCH: P-20 PANTONE 2603 TB PURPLE P-22 PANTONE 2577 TB LT PURPLE P-22 WHITE

LANDSCAPE CALCULATIONS

INTERIOR LANDSCAPE CALCULATIONS

TOTAL SITE AREA 25,131 SF
REQUIRED INTERIOR LANDSCAPE SF = 2,513 SF (10%)
PROPOSED INTERIOR LANDSCAPE SF = 2,520 SF (10%)
TREES
REQUIRED: (1) TREE PER (400) SF OF ILA = 6.3 = 7 TREES
PROPOSED: (4) TREES - VARIANCE REQUESTED
SHRUBS
REQUIRED: (1) SHRUB PER (250) SF OF ILA = 10 = 10 SHRUBS
PROPOSED: (10+) SHRUBS

STREET LANDSCAPE CALCULATIONS

REQUIREMENT: (1) TREE AND (4) SHRUBS PER 40 LF OF FRONTAGE
CLEOPHUS PKWY FRONTAGE TOTAL: 192'
REQUIRED: (5) TREES & (20) SHRUBS
PROPOSED: (5) TREES & DECORATIVE WALL
LAFAYETTE BLVD FRONTAGE TOTAL: 116'
REQUIRED: (3) TREES & (12) SHRUBS
PROPOSED: (0) TREES & (0) SHRUBS - VARIANCE REQUESTED
SOUTHFIELD RD FRONTAGE TOTAL: 182'
REQUIRED: (5) TREES & (19) SHRUBS
PROPOSED: (6) TREES & (21) SHRUBS

PARKING LOT LANDSCAPE CALCULATIONS

18 TOTAL PROPOSED PARKING SPACES; REQ. (1) TREE PER 10 SPACES
REQUIRED: 18 / 10 = 1.8 = (2) DECIDUOUS TREES @ 2.5" CAL.
PROPOSED: (4) DECIDUOUS TREES @ 2.5" CAL.

GPD GROUP
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1	NTP/ENGINEERING REVISIONS	05.24.21
2	06.14.21 ISSUED FOR BID	

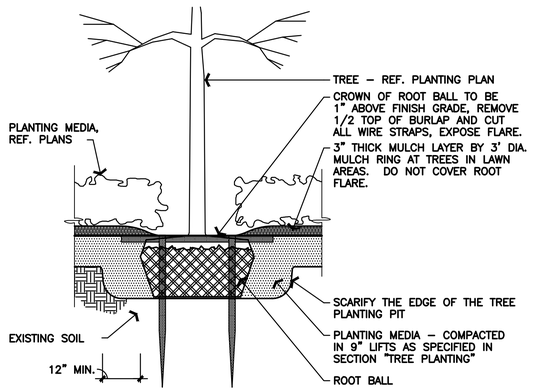
CONTRACT DATE: -
BUILDING TYPE: ENDEAVOR XS-6
PLAN VERSION: -
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

TACO BELL
END XS6

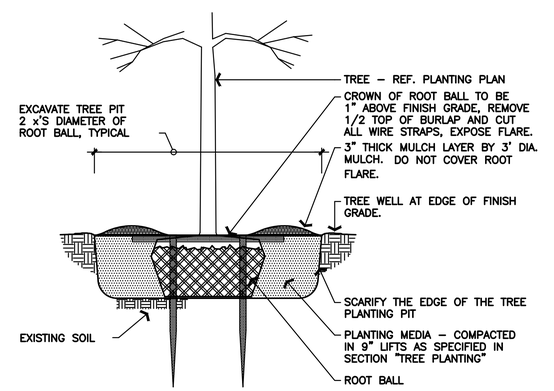
LANDSCAPE PLAN

L-101
PLOT DATE: 6-14-21



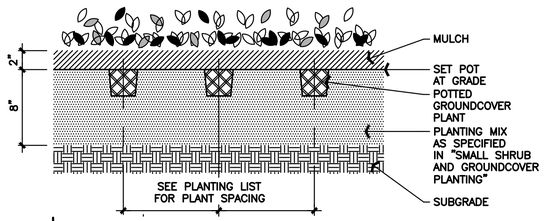
TREE PLANTING IN PLANTER – SECTION

1/2" = 1'–0"



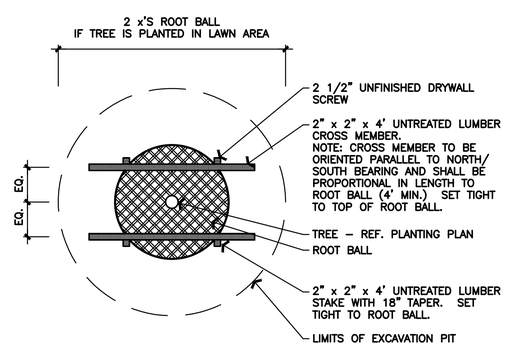
TREE PLANTING IN LAWN – SECTION

1/2" = 1'–0"



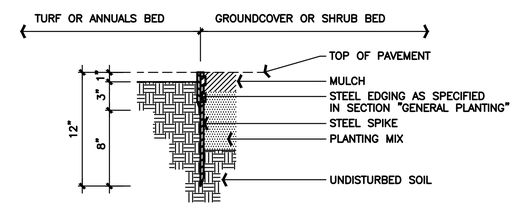
GROUNDCOVER PLANTING – SECTION

1 1/2" = 1'–0"



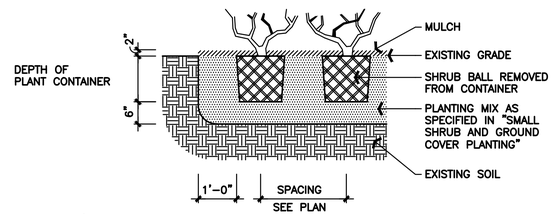
TYPICAL TREE STAKING – PLAN

1/2" = 1'–0"



STEEL EDGING – SECTION

1 1/2" = 1'–0"



SHRUB PLANTING – SECTION

1/2" = 1'–0"

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1	06.14.21	ISSUED FOR BID
2		
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9		

CONTRACT DATE:	-
BUILDING TYPE:	ENDEAVOR XS-6
PLAN VERSION:	-
BRAND DESIGNER:	
SITE NUMBER:	313798
STORE NUMBER:	2019088.10

TACO BELL
1519 Southfield Road
Lincoln Park, MI 48146

END XS6

LANDSCAPE DETAILS

L-501

PLOT DATE: 6-14-21

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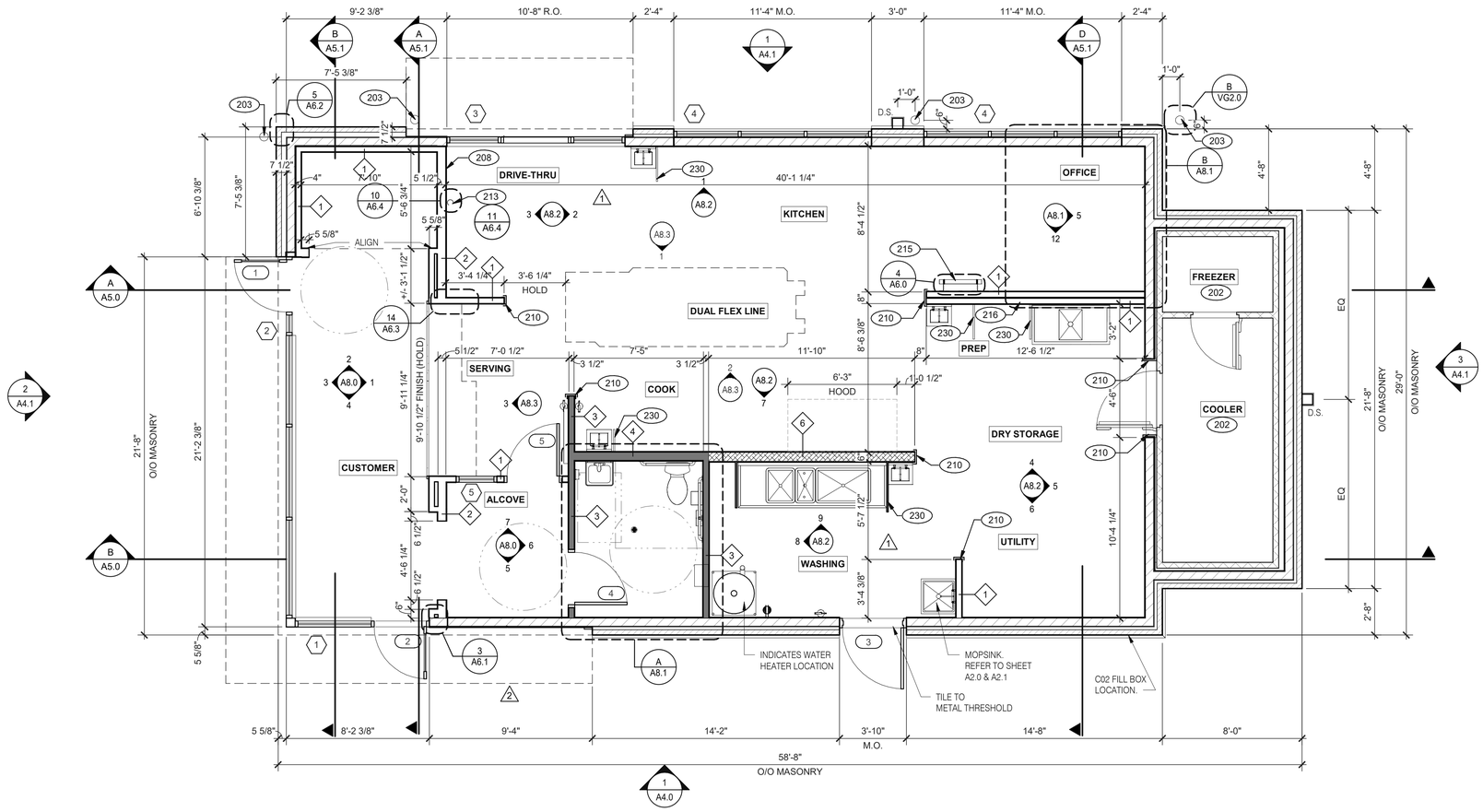
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102



FLOOR PLAN 1/4" = 1'-0" | 1

TYPICAL EXTERIOR WALL:
2X6 WD STUDS AT 16" O.C. W/ SHEATHING AS SCHEDULED (SEE STRUCT. DWGS.) AND R-19 KRAFT-FACED FIBERGLASS BATT INSULATION U.O.N.

TYPICAL INTERIOR WALL:
WD STUDS AT 16" O.C. AS INDICATED

1 2X4 WOOD STUDS

2 2X6 WOOD STUDS

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

3 2X4 WOOD STUDS 4 2X6 WOOD STUDS

HOODWALL:
INTERIOR NON-COMBUSTIBLE WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. EXTEND MIN. 18" BEYOND END OF HOOD. M. STUD FRAMING. REFER TO DETAIL 2/M3.0 FOR EXTENT OF S.S. PANEL.

6 6" METAL STUD

DASHED LINE INDICATES INTERIOR SUBSTRATE LOCATION.

LOW WALL:
2X4 WD STUDS AT 16" O.C. AS SCHEDULED (SEE DETAIL 15/A6.6)

5 2X4 WOOD STUDS

WALL HEIGHTS:
ALL INTERIOR NON-BEARING WALLS EXTEND TO BOTTOM OF TRUSS, U.O.N. REFER TO STRUCTURE.

WALL SUBSTRATES:
- DINING ROOM:
1/2" GYPSUM WALLBOARD FROM FLOOR SLAB TO 6" ABOVE CEILING HEIGHT U.O.N.
- KITCHEN WALLS AND DINING ROOM CLOSET:
1/2" CEMENT WALLBOARD FROM T.O. SLAB T.O. 12" A.F.F. AT 12" A.F.F., USE 1/2" CDX PLYWOOD W/FRP SURFACE FINISH TO 6" ABOVE CEILING HEIGHT U.O.N. IF DOUBLE SIDE SHEAR WALL PLYWD IS SPECIFIED THE PLYWOOD SHALL BE CONTINUOUS FROM SILL PLATE TO TOP PLATE.
- RESTROOM WALLS:
5/8" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F., WITH 5/8" HI-IMPACT BRAND XP WALLBOARD, TYPE X CORE FROM T.O. CEMENT BOARD TO CEILING HEIGHT U.O.N. NO SUBSTITUTIONS ALLOWED. FINISH AS SCHEDULED.
- ALL OTHER FRAME WALL CONDITIONS:
1/2" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F., WITH 1/2" GYPSUM WALLBOARD FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N. FINISH AS SCHEDULE

WALL LEGEND | E

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

WINDOWS / DOORS:
A. SEE SHT. A1.1 FOR WINDOW TYPES AND DOOR SCHEDULE.
B. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING.

FINISH SUBSTRATES:
A. PROVIDE 1/2" THICK CEMENTITOUS BD. FROM FLOOR SLAB TO 12" A.F.F. MIN. IN LIEU OF GYP. BD. AT ALL WALLS EXCEPT SHEARWALL SURFACES, U.O.N.
B. ALL JOINTS, GAPS OR SPACES LEADING TO ALL HOLLOW OR INACCESSIBLE SPACES SHALL BE SEALED WITH "NSF INTERNATIONAL" APPROVED SEALANTS.
C. ALL BACK OF HOUSE AND OFFICE WALLS SHALL HAVE 1/2" CDX PLYWOOD SUBSTRATE, U.O.N.

DECOR:
A. SEE A2.0 FOR SEATING PLAN AND DETAILS.
B. SEE A7.0 FOR FLOOR FINISHES.
C. SEE A8.0 - A8.3 FOR WALL FINISHES.
D. SEE A7.1 FOR CEILING FINISHES.

GENERAL:
A. PROVIDE THREE FIRE EXTINGUISHERS - (2) 10 lb. BC AND (1) 10 lb. ABC - TO COMPLY WITH LOCAL FIRE CODE. LOCATE PER DIRECTION OF FIRE MARSHALL OR LOCAL AUTHORIZING AGENT. FOR ADDITIONAL INFORMATION SEE SHEET A2.0
B. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON NON-BEARING INTERIOR PARTITIONS, BULKHEADS AND SOFFITS IS ACCEPTABLE.

FLOOR PLAN NOTES | D

202 NO FRP BEHIND W-059 WALK-IN COOLER/FREEZER.
203 PIPE BOLLARD. SEE CIVIL DRAWINGS.
208 KEEP CLEAR FOR UTILITIES & SYRUP LINES.
210 S.S. CORNER GUARD/WALL CAP [TM-2], TYP. ALL CORNERS IN BACK OF HOUSE FROM REAR WALL TO THE KITCHEN SIDE OF THE SERVICE COUNTER.
213 SYRUP LINE CHASE (ABOVE).
215 ROOF LADDER.
216 ADD SECOND 2X4 WALL ON KITCHEN SIDE.
230 STAINLESS STEEL SPLASH GUARD. SEE DETAIL 9/A6.3.

KEY NOTES | B

	DATE	REMARKS
1	04.15.21	Plan Review Comments
2	05.24.21	NTP/Engineering Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER: DICKSON
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: RS
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
FLOOR PLAN

A1.0

PLOT DATE: 6/14/2021 7:34:27 AM

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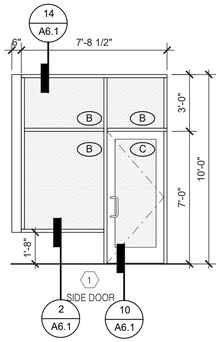
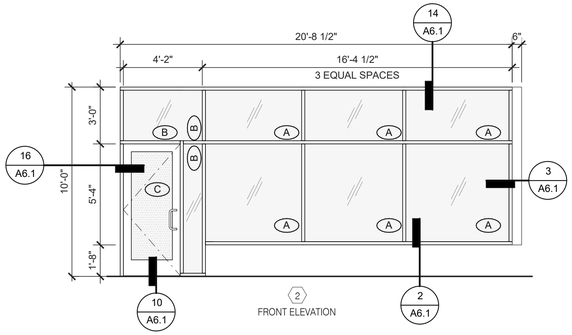
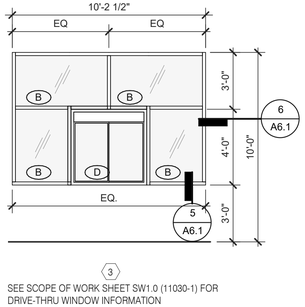
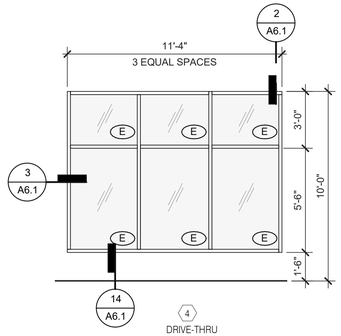
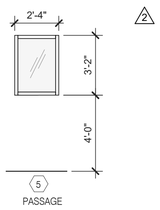






SEE SCOPE OF WORK SHEET SW1.0 (11030-1) FOR DRIVE-THRU WINDOW INFORMATION





NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING.

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

1. DIMENSIONS ON THIS DRAWING ARE TO FRAME EDGE. REFER TO SHEETS A1.0 FOR ROUGH OPENING DIMENSIONS
2. ENTIRE STOREFRONT SYSTEM SHALL BE DARK BRONZE
3. SEE SCHEDULE FOR GLASS TYPES.
4. REFER TO FLOOR PLAN, ELEVATIONS AND WALL SECTIONS FOR ROUGH OPENING DIMENSIONS.
5. ALL STOREFRONT MATERIAL AND GLAZING SHALL BE SUPPLIED AND INSTALLED BY G.C., U.O.N.

NATIONAL ACCOUNTS SUPPLIER

INTERIOR DOORS, FRAMES & HARDWARE LOCKNET CONSTRUCTION@LOCKNET.COM 800 JOHN C. WATTS DR. NICHOLASVILLE, KY 40356 855-432-4613 FAX: 877-887	HAMILTON PARKER JIM CAMPBELL D. 614-358-7806 E-MAIL: JIM CAMPBELL@HAMILTON PARKER.COM

GLASS SCHEDULE

A	1" INSULATED GLASS	D	SAFETY GLASS BY MFR.
B	1" INSULATED TEMPERED GLASS	E	1/4" SPANDREL GLAZING
C	1/4" TEMPERED GLASS		

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

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

GREEN

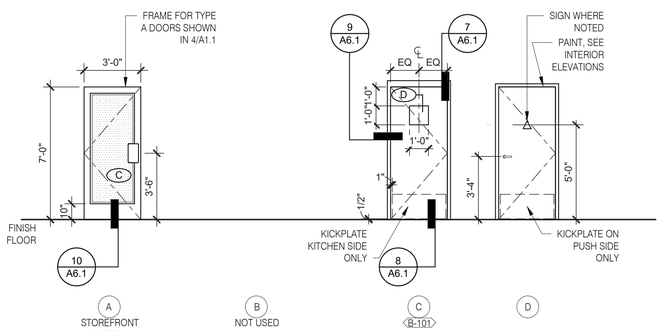
NOTES | **4**

1. LAMINATE DOORS 4, 5, 6 & 7 AND PAINT FRAMES 3, 4, 5, 6 & 7. SEE INTERIOR ELEVATION, SHEET A8.0, A8.1 & A8.2.
2. ALL HARDWARE SHALL BE US32D U.O.N.
3. ALL HM FRAMES SHALL BE 16 GA. STEEL U.O.N.
4. ALL LOCKS SHALL BE FALCON 6 PIN INTERCHANGEABLE CORE SUPPLIED AND INSTALLED BY THE G.C. ALL EXTERIOR LOCKS SHALL BE PROVIDED WITH CONSTRUCTION CORES. ALL PERMANENT CORES SHALL BE KEYED ALIKE.
5. PERMANENT CORES SHALL BE SHIPPED TO THE RESTAURANT GENERAL MANAGER.
6. MOUNT DOOR CLOSERS ON RESTROOM OR KITCHEN SIDE ONLY.
7. LOCKNET SECURITY DOOR. COMPLETE DOOR, FRAME, AND HARDWARE PACKAGE PROVIDED BY RSCS FACILITIES CONNECTIONS.
8. PROVIDE PUSH/PULL PLATES. IF REQUIRED BY LOCAL CODE, STOREFRONT DOOR PANIC HARDWARE SHALL BE: DOR-O-MATIC 2092 RIM PANIC HARDWARE AND EXTERIOR PULLS WITH QUALITY #520 DOOR PULL.
9. MOUNT KICKPLATE ON PUSH SIDE ONLY.
10. MAXIMUM DOOR OPERATING PRESSURE: 5 LBS INTERIOR, 8.5 LBS EXTERIOR.
11. ADA COMPLIANT ACCESSIBILITY SIGNAGE, INCLUDE BRAILLE AS REQUIRED BY LOCAL JURISDICTION - (1) MEN, (1) WOMEN. SEE G4.0.
12. RESTROOM SIGN REQUIRED. SEE G4.0.
13. INSTALL WITH APPLIED DOORS STOPS AND WEATHER STRIPS.
14. FRAMES SHALL BE PAINTED. SEE EXTERIOR ELEVATION A4.0.
15. PROVIDE LATCH AND STRIKE PLATE HARDWARE BY DOOR MFR. TO BE COMPATIBLE WITH LOCK.
16. GC TO TRIM DOOR SWEEP TO FIT DOOR.

DOOR SCHEDULE NOTES | **1**

DOOR SCHEDULE | **2**

DOOR NO.	ROOM NAME	DOOR SIZE			TYPE	DOOR	FRAME	BUTTS			LOCKS							CLOSERS			KICK PLATE		THRESHOLD				DOOR STOP			PUSH	PULL	MISCELLANEOUS						DETAIL LOCATIONS			DOOR NOTES
		WIDTH	HEIGHT	THICK				1	2	3	1	2	3	4	5	6	7	1	2	3	1	2	3	1	2	3	4	1	2	3			1	2	3	4	5	6				
					SEE DOOR TYPE ELEVATIONS			ONE PAIR OFSET PIVOTS PER DOOR MANUFACTURER TOP & BOTTOM	1 1/2 PR McKinney #TA2731 4- 1/2" X 4-1/2"	CONT. HINGE INCLUDED IN PACKAGE	H.D. TYPE 304 S.S. BOBRICK SPRING LOADED	YALE B-PB5407LNC	FULL LENGTH LATCH PROTECTION INCL. IN PACKAGE	PANIC HARDWARE INCLUDED IN PACKAGE	FALCON 0953-7 OR 0947-7 AS REQUIRED	FALCON 1277 OCCUPANCY INDICATING DEADBOLT	FALCON 1690 CONCEAL VERTICAL PANIC HARDWARE	DORMA 8616 x 689	CLOSER INCLUDED IN PACKAGE	DORMA 7414 ARP SNB 689	STAINLESS STEEL 10" X .050 X 2" L.T.D.W. *	KICKPLATE INCLUDED IN PACKAGE	ACCESSIBLE ALUMINUM THRESHOLD BY DOOR MFR.	THRESHOLD INCLUDED IN PACKAGE	FLOOR STOP - ROCKWOOD 441 CU	HINGE STOP - ROCKWOOD 332 NP	WALL STOP - ASA 0714 COAT HOOK W/ BUMPER	PUSH PLATE ROCKWOOD 70F - 8" X 16"	PULL PLATE TRIMCO 1017-3B - 4" X 16"	XCLUDER PEST CONTROL DOOR SWEEP # 16822	SWEEP (VISTA 231 STD) NGP 101VA	UNDERCUT 3/4"	PROVIDE A SIGN STATING THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS	GREEN	COAT HOOK - BOBRICK	DOOR SIGN	HEAD	JAMB	SILL	
1	ENTRANCE	3'-0 1/32"	7'-0"	1 3/4"	A	AL	AL	X							X		X	X			X										X		X				14/A6.1	16/A6.1	10/A6.1	4, 5, 8, 10, 13
2	ENTRANCE	3'-0"	7'-0"	1 3/4"	A	AL	AL	X							X		X	X			X						X				X		X				14/A6.1	16/A6.1	10/A6.1	4, 5, 8, 10, 13
3	KITCHEN	3'-6"	7'-0"	1 3/4"	C	HM	HM			X				X	X					X			X			X						X						7/A6.1	7/A6.1	8/A6.1	2, 4, 5, 6, 7, 9, 10, 13, 14, 15, 16
4	RESTROOM	3'-0"	7'-0"	1 3/4"	D	WD	HM			X						X				X	X						X	X					X				6/A6.4	6/A6.4		
5	SERVING	3'-0"	7'-0"	1 3/4"	D	WD	HM			X				X						X	X						X						X				6/A6.4	6/A6.4		



NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING OR OUTSIDE ROOM.

DOOR TYPES | **3**

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
2	05.24.21	NTP/Engineering Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. XS-6
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	NUNEZ
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

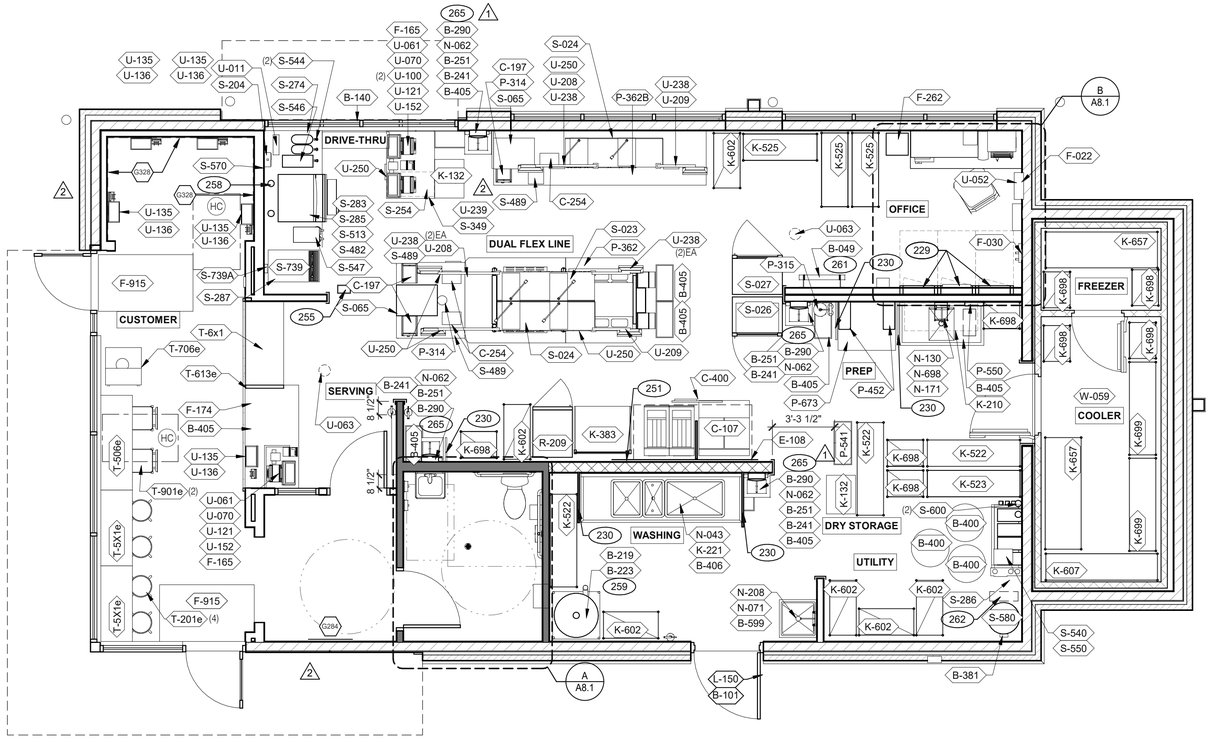
ENDEAVOR XS-6

DOOR & WINDOW ELEVATIONS & SCHEDULES

A1.1

PLOT DATE: 6/14/2021 7:34:38 AM

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



TAG	QTY	ITEM DESCRIPTION
T-5X1e	2	COUNTER TOP - 48" X 20" X 42"
T-201e	4	BARREL BARSTOOL - 29 PURPLE WOOD SEAT
T-506e	1	COUNTER TOP - 60" X 20" X 30"
T-613e	1	POS COUNTER 121 - 3 POS
T-706e	1	WASTE ENCLOSURE - SINGLE
T-901e	2	CHAIR - LAMINATE SEAT

FURNITURE PACKAGE - BY FURNITURE VENDOR U.O.N. | E

X	QTY.	NAME	FAMILY	FRAME OR MURAL	SIZE	LOCATION
G329	1	GM - LP MURAL	E	M01	CUSTOM	SEE A8.0
G284	1	GM - BELL	E	F01	28x40	SEE A8.0

ARTWORK SCHEDULE | D

DECOR
1. REFER TO SC SHEETS FOR SCOPE OF WORK RESPONSIBILITIES
2. (HC)- SYMBOL DENOTES A HANDICAP ACCESSIBLE TABLE.

GENERAL NOTES | C1

STORAGE TYPE	LINEAR FT.
DRY STORAGE	55
COLD STORAGE	26
FROZEN STORAGE	10

SHELVING QUANTITIES | C2

229 ELECTRICAL PANELS.
230 STAINLESS STEEL SPLASH GUARD. SEE DETAIL 9/A6.3.
251 HOOD FIRE SUPPRESSION SYSTEM (ANSUL R-102 OR EQUAL).
255 ALERT LIGHT BOX FOR 3-COMP POWER SOAK.
258 COORDINATE LOCATION OF HORIZONTAL PVC SYRUP CHASE THRU WALL TO COUNTER.
259 6" HIGH WATER HEATER PLATFORM.
261 ROOF LADDER WITH BILCO LADDER UP SAFETY POST.
262 8' LADDER.
265 AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB.

(XXX) **KEY NOTES** | B

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

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
2	05.24.21	NTP/Engineering Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: RS
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
EQUIPMENT AND SEATING PLAN

A2.0

PLOT DATE: 6/14/2021 7:34:46 AM

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

EQUIPMENT SCHEDULE

B CONTRACTOR BUILDING ELEMENTS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
B-049	1	X	ROOF LADDER	PRECISION LADDER #PH-G2-6X3-0				
B-050	1	X	ROOF HATCH	PRECISION LADDER #PH-G-2-6X3-0				
B-140	1	X	DT WINDOW	QUICKSERV#SC4030BR - SELF CLOSING, R/H HANDLE, OPENS RIGHT				
B-219	1	X	WATER HEATER DUNNAGE RACK	NEW AGE INDUSTRIAL CORP., INC #98147				
1 B-223	1	X	98% HIGH EFFICIENCY 199 MBH, 60 GAL. GAS WATER HEATER	A.O. SMITH BTH 199 60 CYCLONE HE	X		X	
B-241	5	X	SOAP DISPENSER (WALL MOUNT)	KAY 3741				
B-251	5	X	SANITIZER DISPENSER (WALL MOUNT)	KAY 3741				
B-253	1	X	PAPER TOWEL DISPENSER/TRASH 12 GAL.	BOBRICK #B-3944				
B-265	1	X	MIRROR, 18 x 36	BOBRICK #B-165-1836				
B-275	1	X	TOILET PAPER DISPENSER	BOBRICK #B-2890				
1 B-290	4	X	PAPER TOWEL DISPENSER	BOBRICK #B-262				
B-300	1	X	GRAB BAR 1-1/2 DIA. X 36 S.S. FIN.	BOBRICK #B6806X36				
B-305	1	X	GRAB BAR 1-1/2 DIA. X 32 S.S. FIN.	BOBRICK #B6806X42				
B-310	1	X	GRAB BAR VERTICAL 1-1/2 DIA. X 18 S.S. FIN.	BOBRICK #B6806X18				
B-381	1	X	CO2 CARBON DIOXIDE SENSOR/WARNING	LogiCO2 CO2 MK9 SENSOR		X		
B-400	3	X	WASTE BASKET - 32 GALLON	RUBBERMAID #2632 (GREY)				
1 B-405	8	X	WASTE BASKET					
B-406	1	X	WASTE BASKET	RUBBERMAID 28 QT #2956 (BLACK)				
B-410	1	X	SANITARY NAPKIN RECEPTACLE	RUBBERMAID #6140				
B-599	1	X	MOP SINK SHELVING	SPG #WST806Y				
B-X01	1	X	DIAPER CHANGING STATION	BOBRICK #TBD				

C COOKING EQUIPMENT

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
C-079	1	X	DUAL FRYER	FRYMASTER #2FQG30U		X	X	COMES WITH GAS HOSE KIT (OPTIONAL: PITCO #TB-SSHLV14-2/FD VS7)
C-107	1	X	RETHERMALIZER	PITCO #TB-SRTG14-2	X	X	X	
C-197	3	X	TOASTER, SPLIT LID	PROLUXE SL1266TB		X		POWERED BY PRODUCTION LINE - (OPTIONAL: STAR #PSC14DTB)
C-254	3	X	CHEESE MELTER (SINGLE)	A.J.ANTUNES #CM-100	X	X		POWERED BY PRODUCTION LINE
C-400	1	X	RETHERMALIZER TIMER	FAST #TBZAP12120V		X		

E EXHAUST HOODS/FIRE SUPPORT

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
E-107	1	X	KITCHEN HOOD	STRATOVENT #TBG365OSVBD6FT3IN		X		
E-108	1	X	BACKSPLASH				X	

F OFFICE/EMPLOYEE/MUSIC/MISCELLANEOUS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
F-014	1	X	FILE CABINET (2 DRAWER HIGH) 18X36X27H	HON #582LL				
F-021	1	X	CHAIR - OFFICE	HON #4609AB10				IN OFFICE AREA, SEE SHEET A8.2
F-022	1	X	LICENSE FRAME (BLACK)	CREATIVE PALETTE TB30			X	IN OFFICE AREA
F-026	1	X	DESK LAMP	TBD				IN OFFICE AREA, SEE SHEET A8.2
F-030	1	X	COAT HOOK	ISS #HOOK246R2Y			X	IN OFFICE AREA
F-040	1		OFFICE COMPUTER	POS PROVIDED			X	IN OFFICE AREA, SEE SHEET A8.2
F-050	1		CREDIT CARD SATELLITE ROUTER JUNCTION					
F-060	1		MONITOR - OFFICE	YUM				
F-080	1		OFFICE PRINTER/COPIER/FAX/SCANNER	POS PROVIDED			X	
F-090	6		UPS (UN-INTERUPTABLE POWER SUPPLY)	POS PROVIDED			X	
F-102	1	X	MONEY COUNTER	TELLERMATE #TIXR3000			X	IN OFFICE AREA
F-131	1		SPEAKERS	MOOD MEDIA LOCAL LEASE			X	
F-165	2	X	FRONT LOAD SAFE	PERMA VAULT #PRO-10TM				
F-174	1		SAFE WITH TOUCH SCREEN CONTROLS				X	
F-211	1	X	CLOCK	B&B SYSTEMS #02100100				IN OFFICE AREA, SEE SHEET A8.2
F-262	1	X	6 COUNT EMPLOYEE LOCKERS E76000235	LYON WORKPLACE 12" X 18" X 78" GREY			X	IN OFFICE AREA
F-270	1	X	FIRST AID KIT	PROSTAT FIRST AID LCC #2617			X	IN OFFICE AREA
F-504	1		DVR & MONITOR					
F-915	2		FLOOR MAT	CREWSAFE, ENTRANCE I #41150012				RUBBERIZED - 3'-5', RIBBED, CHARCOAL, WSM #800503

K WORKSTATIONS/SHELVING/CARTS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
2 K-132	2		CART, CLOSING MADE SIMPLE	SPG / ISS (Alternate: METRO)				#WST1434Y
K-210	1		PREP SINK WORKSTATION 50 TRACK	SPG / ISS (Alternate: METRO)				#WST255E, Wall Trax System for 1-Comp Sink, 16X50X40 + ACC
K-221	1	X	3 COMP SINK WORKSTATION 96 TRACK	SPG / ISS (Alternate: METRO)				#DS1F, Wall Trax System for 3 Comp Sink, (3) 18X24 GRIDS + ACC
K-383	1		FRY WORKSTATION 30D x 78H x 36 in.	SPG / ISS (Alternate: METRO)				#WST1724E, 36 in. Crispy Frystation
K-490	1		SHELVING 18x24x24, 2-TIER	SPG / ISS (Alternate: METRO)				#WST440Y
K-522	3		SHELVING, 18x60x76, 5-TIER, SMALL PACKAGING	SPG / ISS (Alternate: METRO)				#WST1548Y
K-523	1		SHELVING, 18x60x76, 3-TIER, CUP & LID	SPG / ISS (Alternate: METRO)				#WST1580Y
K-525	3		SHELVING 18x48x76, 5-TIER	SPG / ISS (Alternate: METRO)				#WST1613Y
K-602	6		SHELVING, 18x36x86, 5-TIER, DRY STORAGE	SPG / ISS (Alternate: METRO)				#WST238Y
K-607	1		SHELVING	SPG / ISS (Alternate: METRO)				
K-657	2	X	SHELVING 24x72x86, 5-TIER	SPG / ISS (Alternate: METRO)				#SU2472857: WALK-IN COOLER 24X72X86
K-698	8		SHELVING 18X24X74, 5-TIER	SPG / ISS (Alternate: METRO)				#SU186075Y
K-699	2		SHELVING 18x60x74, 5-TIER	SPG / ISS (Alternate: METRO)				#SU186075Y

L LIGHTING/SIGNAGE/MENUBOARDS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
L-043	1		DIGITAL MENU BOARD	STRATACACHE, LG 43" DISPLAY		X		

N SINKS/DISHWASHER

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
N-043	1	X	3-COMP POWER SOAK 102	UNIFIED #PS6750	X	X		GEN IV POWERSOAK INCLUDES T&S FAUCET #B-2475-PS-OH (FRANCHISE OPTION: GEN III)
1 N-062	4	X	STAINLESS STEEL WALL MOUNTED SINK WITH FAUCET	AERO #HS-MOD	X			
N-071	1	X	MOP SINK FAUCET	T&S B-2465	X			
N-130	1	X	1 COMP PREP SINK FAUCET	T&S B-0831-WA	X			FRANCHISE OPTION N-134: T&S B-2465
N-141	1	X	WALL MOUNTED LAVATORY	AMERICAN STANDARDS BRAND	X			WHITE VITREOUS CHINA WALL MOUNTED LAVATORY WITH ACCESSORIES. N-141 IS METERED FAUCET.FAUCET, LAVATORY, CENTERSET MIXING, #B-0890-WS
N-146	1	X	FAUCET (RESTROOMS)	T&S FAUCET B-0831-WA	X			2" TWIST TYPE FOR N-698
N-171	1		LEVER WASTE DRAIN		X			
N-208	1	X	MOP SINK	AERO #3MP-2121-6/1P	X			INCLUDES (2) 24X36 WALL PANELS
N-698	1	X	1 COMP PREP SINK 53W X 27D X 35 1/2H	AERO #2F1211617LR	X			

P FOOD PREPARATION

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
P-314	2	X	REGULATOR, WATER PRESSURE	A.J. ANTUNES #7000314	X			FOR CHEESE MELTER - #7000314
P-315	1	X	REVERSE OSMOSIS SYSTEM	3M #56123-06, FSTM-075	X			INSTALL OVER FLOOR SINK
P-362	1	X	FLEX DUAL LINE	SERTEK		X		ALT. NOTE: BAG HOLDER NO LONGER INCLUDED WITH PRODUCTION LINE - REFER TO EQUIPMENT PLAN FOR ORIENTATION AND NUMBER OF LINES
P-362B	1	X	FLEX I-LINE, TB 131IN R TO L	SERTEK		X		
P-452	2	X	HOT WATER SYSTEM	BUNN-MACHINE #43600.0014	X	X		Each System= Water Heater #43600.0014, Bracket #13125.0003, Shelf#12599.0000, Scale Inhibitor #39000.0001
P-541	1		STORAGE BINS	B4B SYSTEMS #03070100				
P-550	1	X	KNIFE RACK	EDLUND #KR-699				
P-673	1		WORK TABLE					

R REFRIGERATION

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
R-209	1		FRY STATION REACH-IN FREEZER (RIGHT HINGED)	DELFIELD #GBF1P-SH-TB2			X	OPTION: LEFT HINGED VERSION - DELFIELD #GBF1P-SH-IK-TB2

S SERVING/DRIVE-THRU

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
S-023	1	X	WARMER, EVO	CARTER HOFFMAN		X		MOUNT ON PRODUCTION LINE OVER SHELF
S-024	2	X	WARMER, EVO	CARTER HOFFMAN		X		MOUNT ON PRODUCTION LINE OVER SHELF
S-026	1	X	HEAT CABINET - FULL HEIGTH - (1) RH	CRESCOR #H137S27D1TB		X		W/8 SHELVES EACH
S-027	1	X	HEAT CABINET - FULL HEIGHT - (1) RH	CRESCOR #H137S27D1TB		X		W/ 8 RACKS
S-065	2	X	DESSERT TOWER	HATCO #GRBW-24D				
S-204	1	X	DRIVE-THRU TIMER SYSTEM	HME #C11422TB		X		
S-254	1		CONDIMENT RACK	PRONTO #CHPWO446				
S-274	1	X	DRIVE-THRU BEVERAGE WORKSTATION	SPG WST1242YA				OPTIONAL: METRO
S-283	1	X	DRINK STAGER WITHOUT STRAW HOLDER	WST788E				
S-285	1		BEVERAGE DISPENSER - DRIVE THRU	SERVEND	X	X		SEE SCOPE OF WORK (PEPSI)
S-286	1	X	WATER FILTER SYSTEM	SHURFLO #WB6-M3-22-003				FRANCHISEES CAN USE SELECTO #TB5/620-5
S-287	1	X	ISS-TABLE, D/T, TB, 24 IN X36 IN PREASSEMBLED	FBD #1273610021	X	X		
S-349	1		DRIVE-THRU PICK-UP WORKSTATION 30X42	SPG				OPTIONAL:METRO
S-482	1		CUP DISPENSER	A.J. ATUNES #DACS60				W/ ANGLED MOUNTING BRICKET OMNITEAM CDB-DTA
S-489	3		SCALE	EDLUND				10#X.1OZ, ELECTRONIC, EDLUND #DS-10 CSTM; WSM #113464
S-513	1		ICE MAKER (PLACED ON TOP OF DRINK MACHINES)	MANITOWOC, KMS-1401MLJ	X	X		W/ROOF MOUNTED CONDENSERS HOSHIZAKI FRANCHISEES CAN USE HOSHISAKI KMS-1230
S-540	1		PEPSI BOOSTER TANK		X	X		SEE SCOPE OF WORK (PEPSI)
S-544	2		ICE TEA URN	BUNN/TDO-N-3.5				
S-546	1	X	ICED TEA BREWER	TETLEY TB3Q	X	X		
S-547	1		POD COFFEE BREWER	MY CAFE AP AUTOPOD #42300.0008		X		
S-550	1		BAG-IN-BOX SYRUP RACK	CORNELIUS/REMCOR BNP12B8P	X			FLO-3REG-2CRB (BY PEPSI)
S-570	1		CARBONATOR	CORNELIUS/REMCOR	X	X		SHELF MOUNTED BELOW EACH DRINK (BY PEPSI)
S-580	1		CO2 BULK TANK	MVE #11805373				
S-600	2		BUNDLED SYRUP LINES	CORNELIUS/REMCOR TUBE BUNDLE	X			SEE SCOPE OF WORK (PEPSI)
S-739	1	X	REMOTE AND DUAL CONDENSER	FBD #1273610021	X	X		
S-739 A	1	X	FREEZE TRANSFORMER			X		
S-740	1	X	FROZEN BEVERAGE CONDENSER, REMOTE	FBD #12-3003-0006	X	X		40 IN X 17 IN X 21 IN 208 SINGLE PHASE 2 WIRE 15 AMP, 105LB

U SECURITY/COMMUNICATIONS/FIRE PROTECTION/POS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
U-011	1		BASE STATION - D/T COMM. SYSTEM	HME #C40000-5-HS3-TB				
U-052	1	X	SECURITY SYSTEM	ADT #3BCZTB		X		
U-061	2		CREDIT CARD READER			X		
U-063	2		ALARM SENSOR			X		
U-070	2		RECIEPT PRINTER	EPSON		X		
U-100	3		POS/ORDER ENTRY TERMINAL			X		2 FOR F/C AND 1 D/T
U-121	2		CASH DRAWER BRACKETS	#SU186075Y				2 PER CASH DRAWER
U-135	5		KIOSK TABLET	SSP	X			
U-136	5		VERIFONE (CREDIT CARD MACHINE	SSP	X			
U-152	2		CASH DRAWER	IBM, NCR & PAR				2 FOR F/C AND D/T
U-208	3		MONITOR SUPPORT ARM	FACILITY SOLUTIONS				KIT, TB, 39 L - CRADLE NOT INCLUDED
U-209	3		MONITOR SUPPORT ARM	FACILITY SOLUTIONS				KIT, TB, 24.25 L MONITOR SUPPORT ARM, CRADLE NOT INCLUDED
U-238	7		KITCHEN MONITOR	IBM, NCR & PAR				MONITOR ON STAND
U-239	1		MONITOR CEILING MOUNTED BRACKET	IBM, NCR & PAR				
U-250	7		BUMP BAR WITH MOUNTING PLATE	IBM, NCR & PAR				WITH MOUNTING PLATE

W WALK-IN COOLERS/FREEZERS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
W-059	1	X	WALK-IN	ICS/NORLAKE #105181	X	X		COMBO, TB, #105181, BUDGETARY 19-4X7X9-2 OAD, MEDIUM BUILDING PROTOTYPE, INCLUDES LED

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CONTRACT DATE: 12.1.20
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PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
EQUIPMENT SCHEDULE

A2.1

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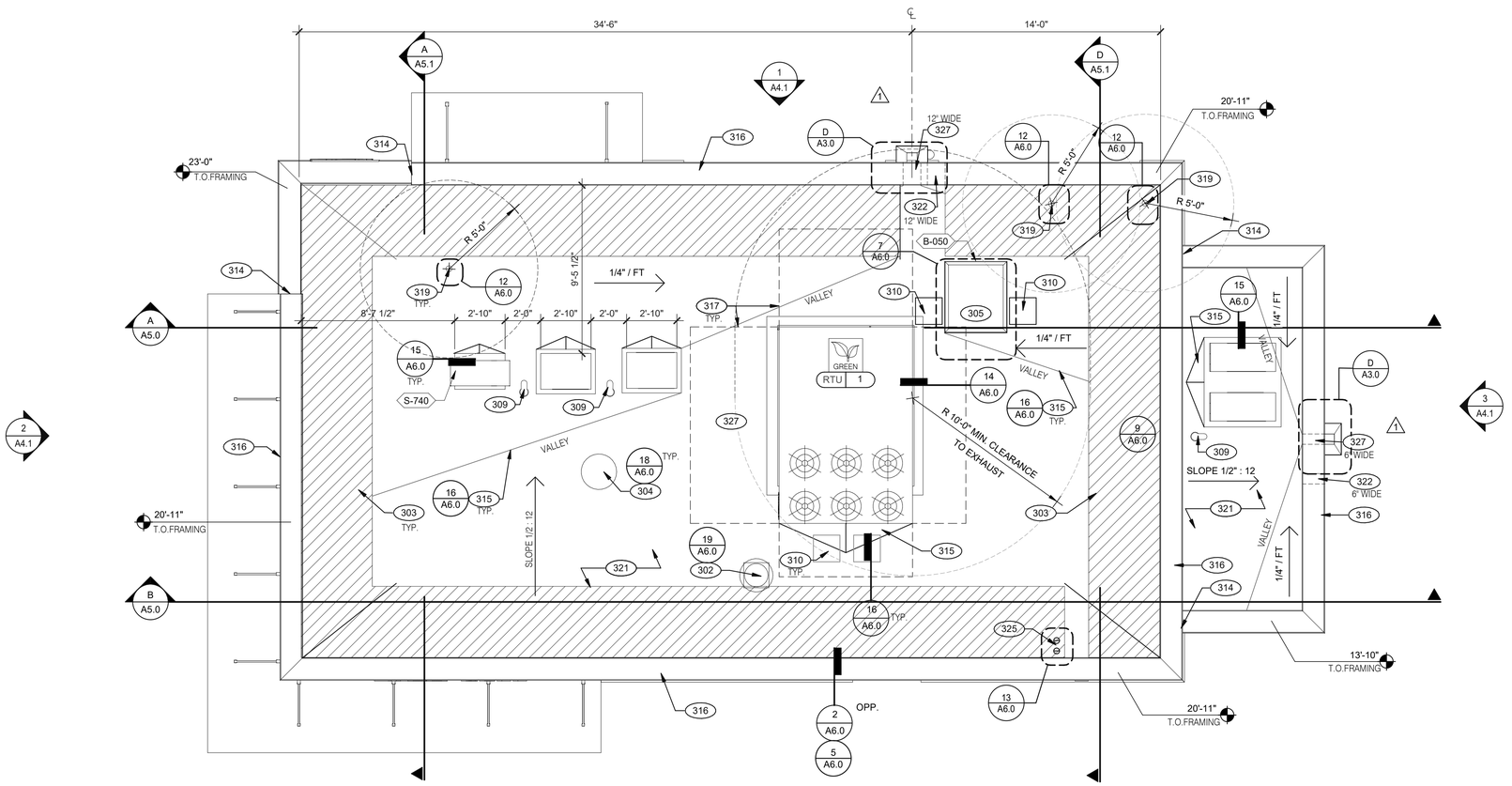
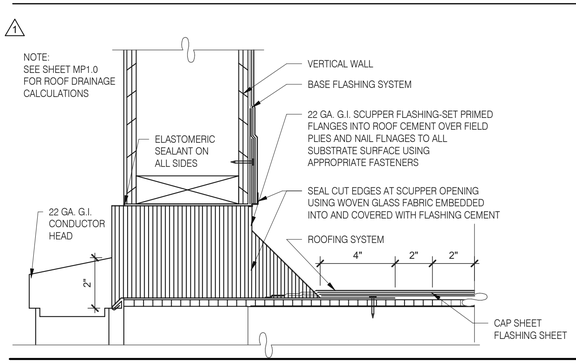
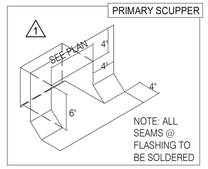
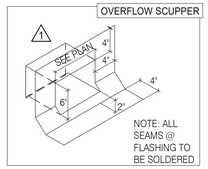


ROOF PLAN 1/4" = 1'-0" A







ROOF DRAIN D

WATERPROOFING:

A. PAINT UNDERSIDE OF PARAPET CAP FLASHING WITH FACTORY BONDED PAINT GRIP OR PRIMER
B. TOP NAILING AT PARAPET CAP FLASHING WILL NOT BE ACCEPTED
C. PENETRATIONS IN ROOFING MEMBRANE AND FLASHING SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS OR SPECS.
D. SEE SPECIFICATIONS FOR SEALANT SPECS.
E. ALL SHEETS MTL FLASHONG SHALL BE 22 GA MIN.

MISCELLANEOUS:

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

ROOF PLAN NOTES C

302 KITCHEN HOOD EXHAUST FAN. SEE SHEET M3.0 AND DETAIL 19/A6.0.
303 KICKERS, SEE STRUCTURAL DRAWINGS.
304 RESTROOM EXHAUST FAN. SEE MECHANICAL DRAWINGS AND DETAIL 18/A6.0.
305 ROOF HATCH.SEE DETAIL 7/A6.0.
309 PIPE HOOD FOR UTILITIES. SEE DETAIL 9/A6.0.
310 24x36 WALK MATS. SEE ROOF SPECS.
314 CHANGE IN PARAPET ELEVATION. SEE SECTION 13/A6.1.
315 ROOF CRICKET. SEE DETAIL 16/A6.0.
316 METAL PARAPET CAP. SEE DETAIL 2/A6.0 OR 1/A6.2.
317 MAINTAIN MANUFACTURERS ROOFTOP UNIT MAINTENANCE CLEARANCE.
319 WASTE VENT THROUGH ROOF. THE TOP OF WASTE VENTS SHALL BE 12" HIGHER THAN THE CLOSEST PARAPET CAP U.N.O. OR NOT ALLOWED BY LOCAL JURISDICTION. SEE DETAIL 12/A6.0 FOR FLASHING ASSEMBLY.
321 'DURO-LAST' SINGLE PLY ROOF MEMBRANE OVER MINIMUM R-35 RIGID INSULATION BOARD OVER 5/8" APA RATED EXTERIOR GRADE PLYWOOD OVER WOOD TRUSSES. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
322 OVERFLOW SCUPPER. SEE DETAIL F/A3.0.
325 WATER HEATER INTAKE. SEE DETAIL 13/A6.0 FOR BRACING.
327 SCUPPER AND DOWNSPOUT. SEE DETAIL F/A3.0.

KEY NOTES B

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STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	RS
JOB NO.:	2019088.10

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LINCOLN PARK, MI 48146

ENDEAVOR XS-6
ROOF PLAN

A3.0

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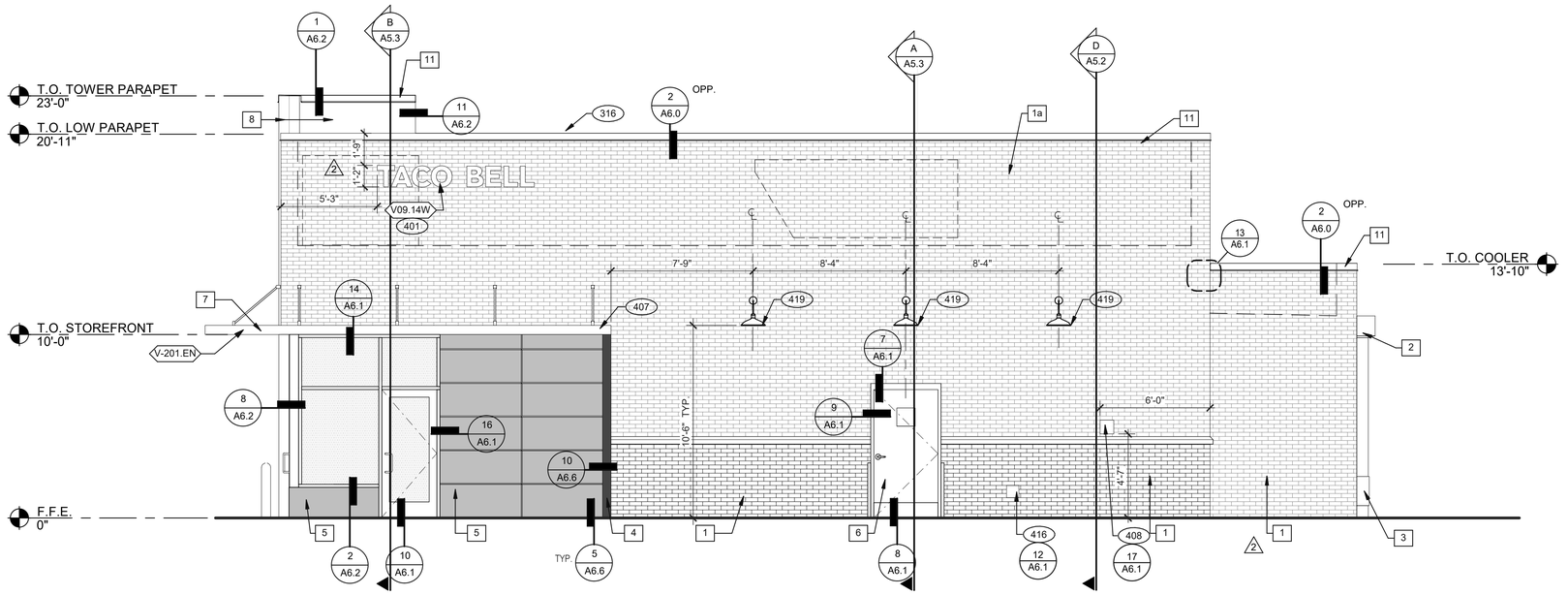

RIGHT SIDE ELEVATION 1/4" = 1'-0" | 1

SIGNAGE | E

TYPE MARK	QTY	ITEM DESCRIPTION	LOC
TOWER			
V-04.42	1	42" SWINGING BELL PURPLE LOGO FACE LIT	A4.1
SIDE ENTRY			
V-09.14W	1	14" WHITE CHANNEL LETTERS VERTICAL	A4.0
DRIVE THRU			
V-101.DT	1	DT AWNING (OVER DT) 13' 0" X 4' 0" BLACK	A4.1
EYEBROW AWNINGS			
V-201.EN	1	ENTRY EYEBROW (WINDOW) 4'-6" D BLACK	A4.1

GENERAL NOTES | C

MISCELLANEOUS
A. SEE SHEET A1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.

SEALERS (REFER TO SPECS)
A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
B. SEALANT AT ALL WINDOW AND DOOR FRAMES AND JAMB. DO NOT SEAL SILL @ WINDOWS.
C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING AND CANOPY.

CRITICAL DIMENSIONS
A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SIGNAGE/BUILDING ELEMENTS DIMENSIONS.

NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLATION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS.

PAINT NOTES | A

PAINTING
APPLICATOR MUST DO THEIR DUE DILIGENCE WITH PREPARATION.
PRIMER: 1 COAT SW A24W8300
FINISH: 2 COATS SW A82-100 SERIES, MATCH COLORS FROM MATERIAL SCHEDULE.
A-100 EXTERIOR LATEX SATIN.

SYMBOL	ITEM/MATERIAL	MANUFACTURER	MATERIAL SPEC	COLOR	CONTACT INFORMATION
1	BRICK	INTERSTATE BRICK	2 1/4" MODULAR BRICK	MIDNIGHT BLACK	SEE C / A 7.2
1a	BRICK	INTERSTATE BRICK	2 1/4" MODULAR BRICK	CUSTOM BLEND (RANDOM INSTALL) 70% PEWTER / 30% PLATINUM	SEE C / A 7.2
2	SCUPPERS	-	-	WORLDLY GRAY (SW7043), SEMI-GLOSS	
3	DOWN SPOUTS	-	-	WORLDLY GRAY (SW7043), SEMI-GLOSS	
4	HARDIE TRIM	JAMES HARDIE	HARDIE TRIM 5/4 SMOOTH 1"x4.5"	CYBERSPACE (SW7076), SEMI-GLOSS	SEE C / A 7.2
5	HARDIE REVEAL PANEL	JAMES HARDIE	REVEAL PANEL SYSTEM	CYBERSPACE (SW7076), SEMI-GLOSS	SEE C / A 7.2
6	HOLLOW METAL DOOR	-	- 2	CYBERSPACE (SW7076), SEMI-GLOSS	
7	AWNINGS	SIGNAGE VENDOR	-	BLACK BY THE SIGNAGE VENDOR	
8	CORNER TOWER	SIGNAGE VENDOR	PAINTED PANEL	VARIES	SEE C / A 7.2
9	TOWER BRICK	INTERSTATE BRICK	2 1/4" MODULAR BRICK	MIDNIGHT BLACK	SEE C / A 7.2
10	NOT USED				
11	METAL PARAPET CAP	-	24GA GALVANIZED 2	CYBERSPACE (SW7076), KYNAR 500 COATING	

EXTERIOR FINISH SCHEDULE | H

KEY NOTES | B

316 METAL PARAPET CAP. SEE DETAIL 2/A6.0 OR 1/A6.2.
401 BUILDING SIGN BY SIGN VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
407 METAL CANOPIES BY SIGNAGE VENDOR. SEE SCHEDULE FOR FINISH.
408 CO2 FILLER VALVE & COVER.
416 HOSE BIBB BOX AT 18" A.F.F. COORDINATE WITH PLUMBING DRAWINGS.
419 EXTERIOR LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.

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TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
EXTERIOR ELEVATIONS

A4.0

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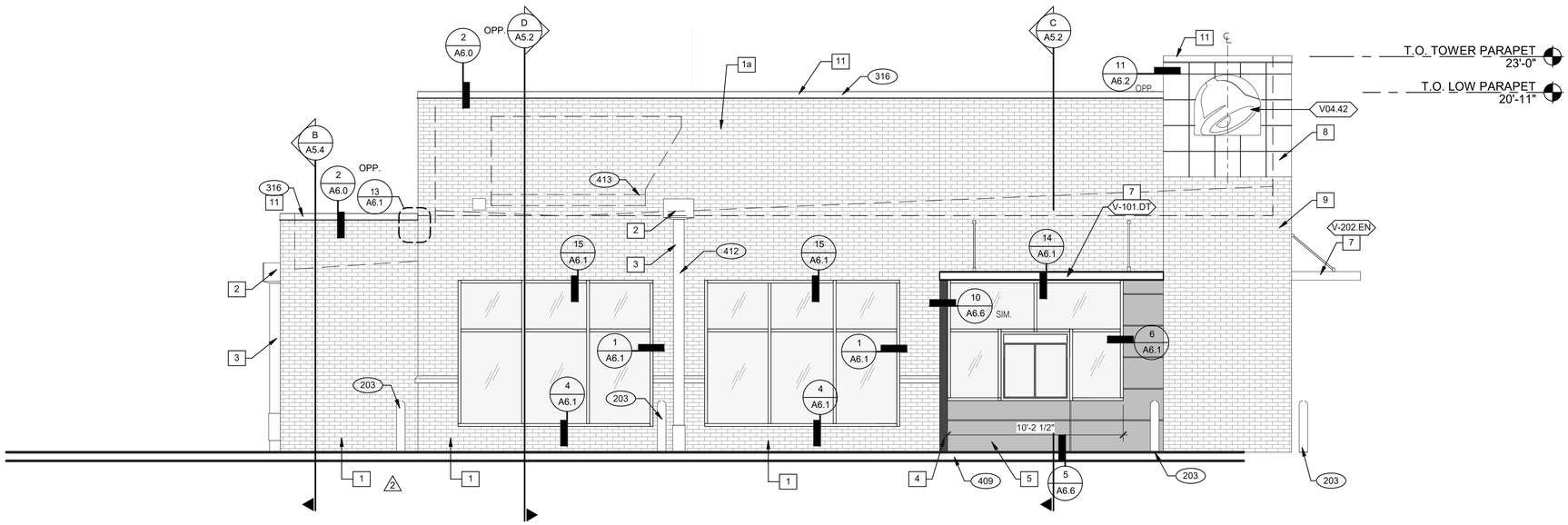
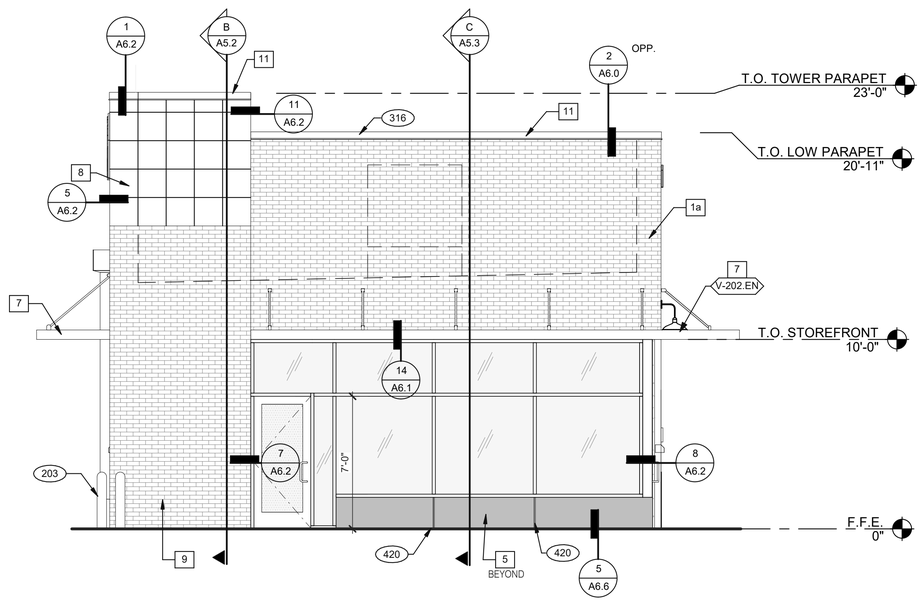
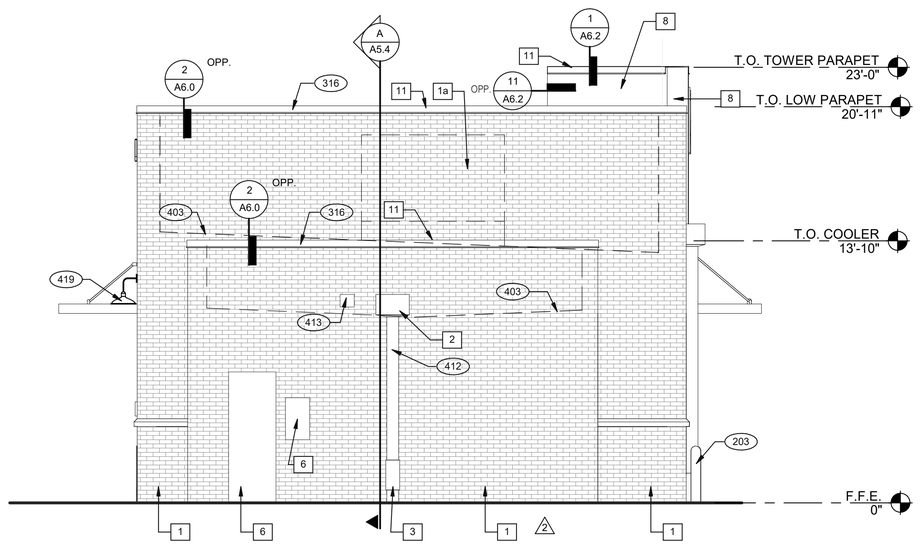


LEFT SIDE ELEVATION 1/4" = 1'-0" | **1**



FRONT ELEVATION 1/4" = 1'-0" | **2**



REAR ELEVATION 1/4" = 1'-0" | **3**

KEY NOTES

203	PIPE BOLLARD. SEE CIVIL DRAWINGS.
316	METAL PARAPET CAP. SEE DETAIL 2/A6.0 OR 1/A6.2.
403	DASHED LINE INDICATES ROOF BEYOND.
409	ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
412	SCUPPER, COLLECTOR AND VERTICAL DOWNSPOUT 6" MIN. SEE DETAIL D/A3.0.
413	OVERFLOW SCUPPER. SEE DETAIL D/A3.0.
419	EXTERIOR LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.
420	CENTER REVEAL ON VERTICAL WINDOW MULLION.

A

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JOB NO.:	2019088.10

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ENDEAVOR XS-6
EXTERIOR ELEVATIONS

A4.1

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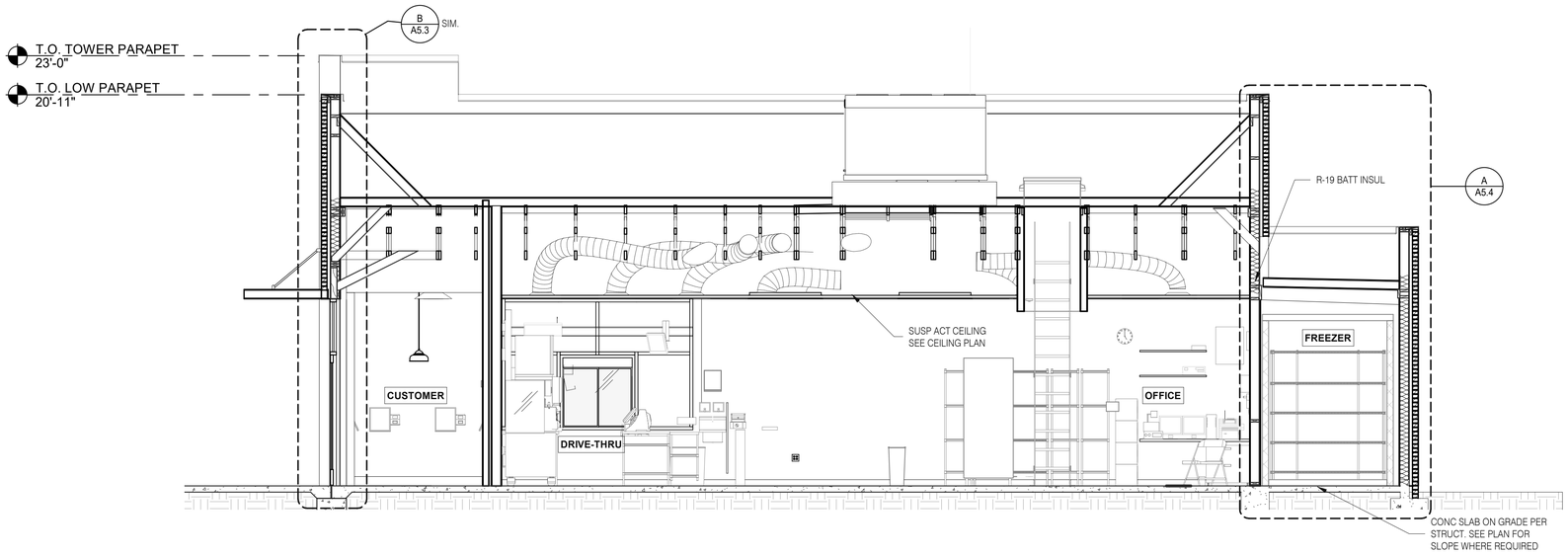
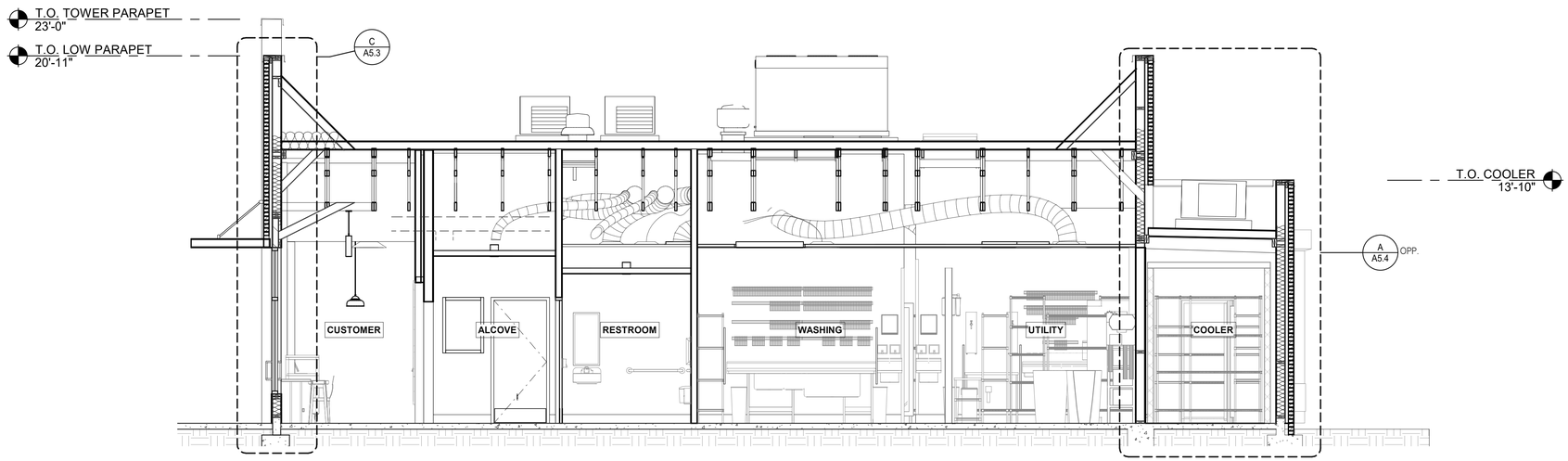


FRONT TO BACK BUILDING SECTION 2 1/4" = 1'-0" **A**



FRONT TO BACK BUILDING SECTION 1 1/4" = 1'-0" **B**

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ENDEAVOR XS-6
BUILDING SECTIONS

A5.0

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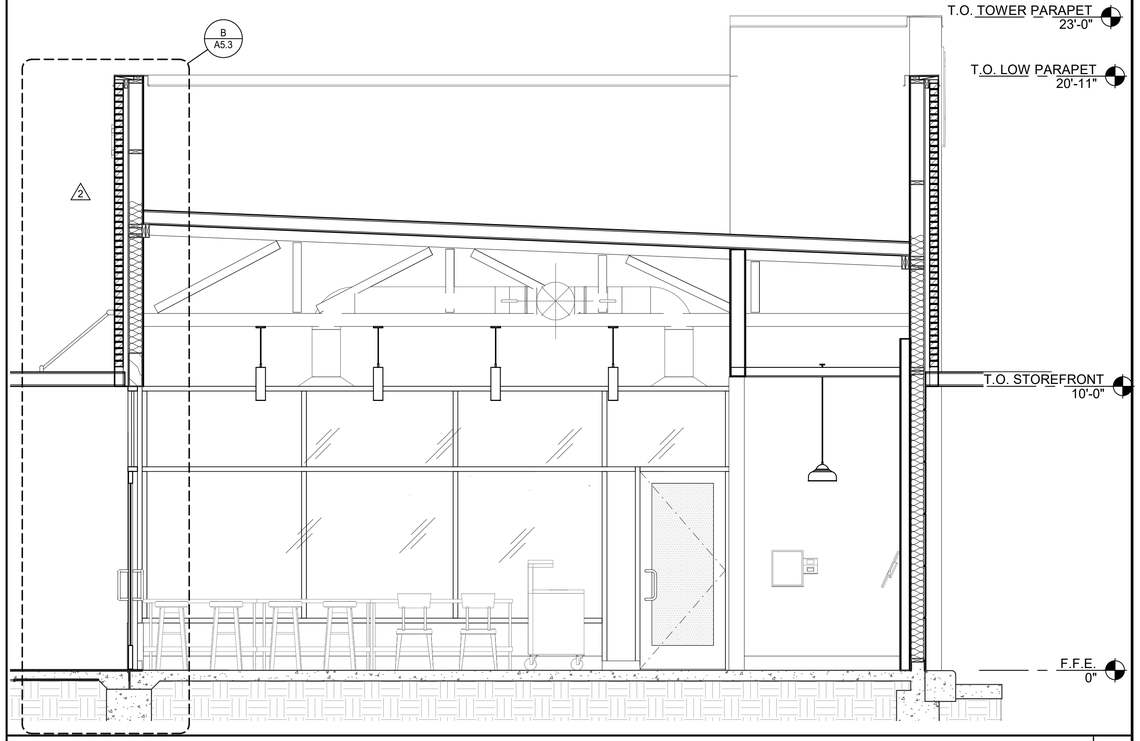
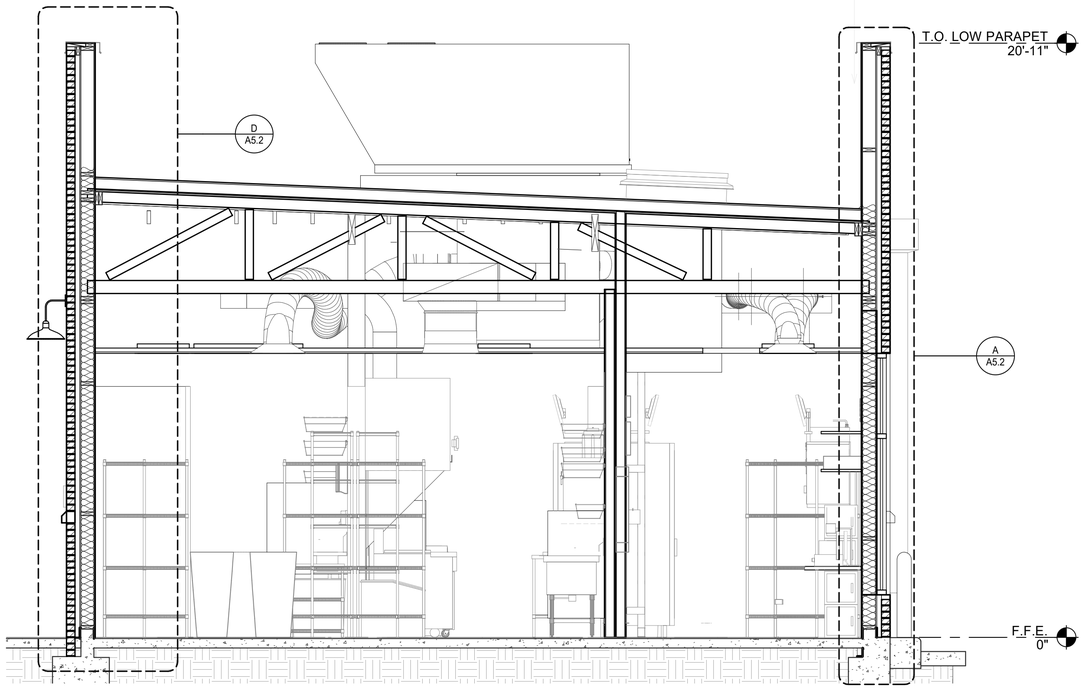
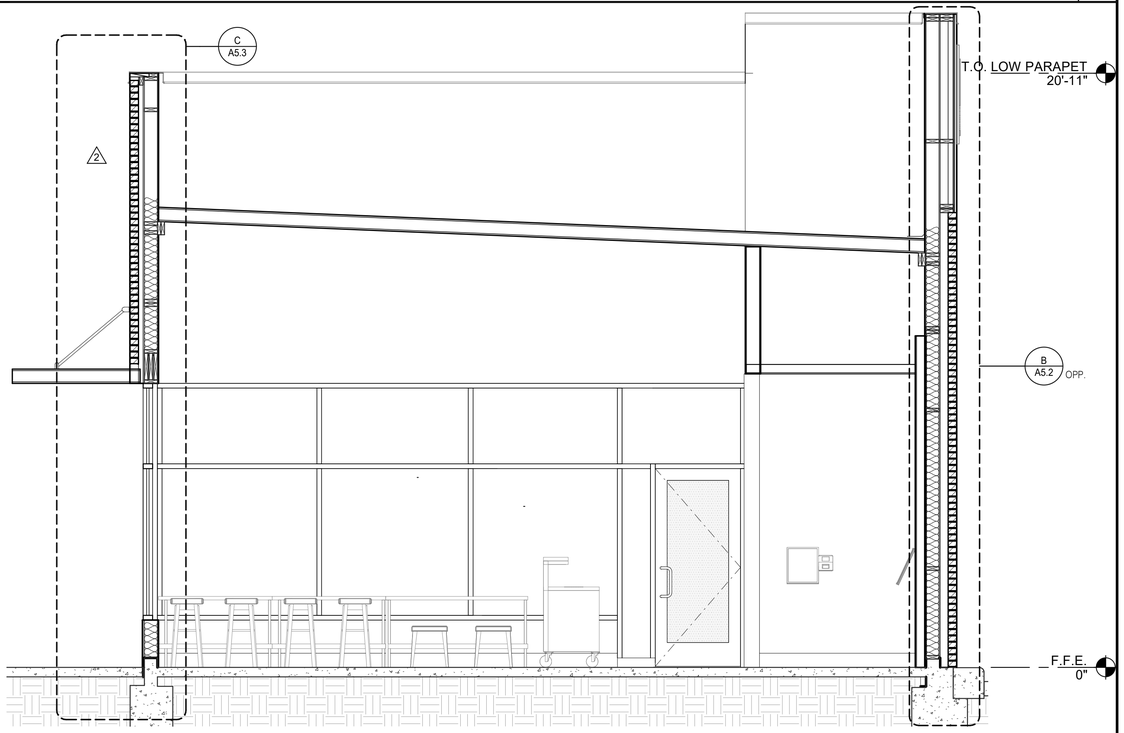


LEFT TO RIGHT BUILDING SECTION 5 3/8" = 1'-0" | **A**



LEFT TO RIGHT BUILDING SECTION 4 3/8" = 1'-0" | **D**



LEFT TO RIGHT BUILDING SECTION 3 3/8" = 1'-0" | **B**

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ENDEAVOR XS-6
BUILDING SECTIONS

A5.1

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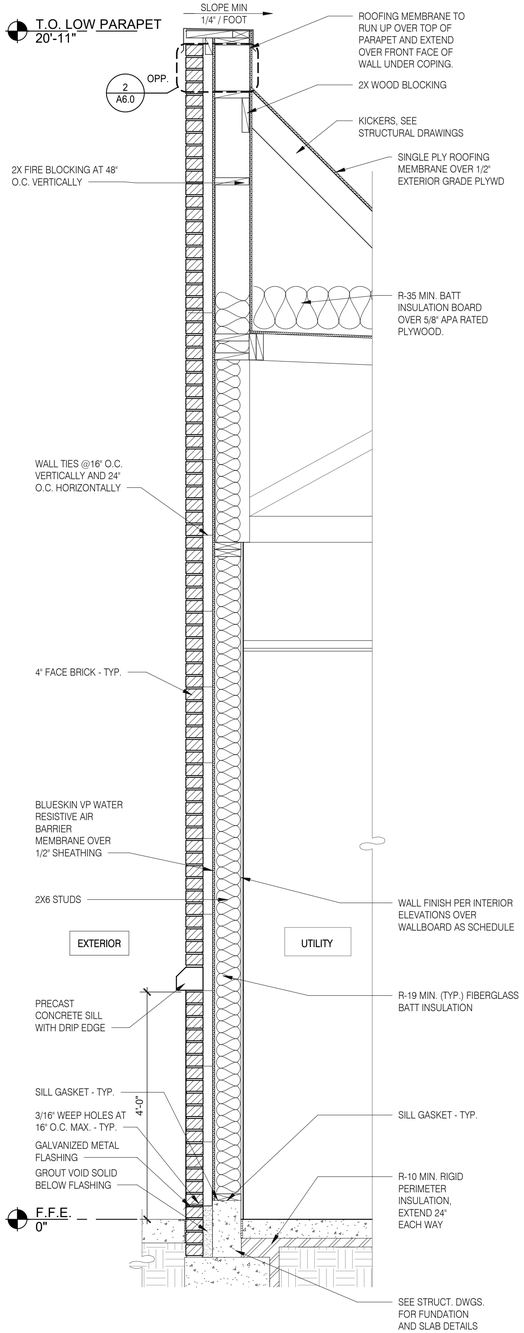
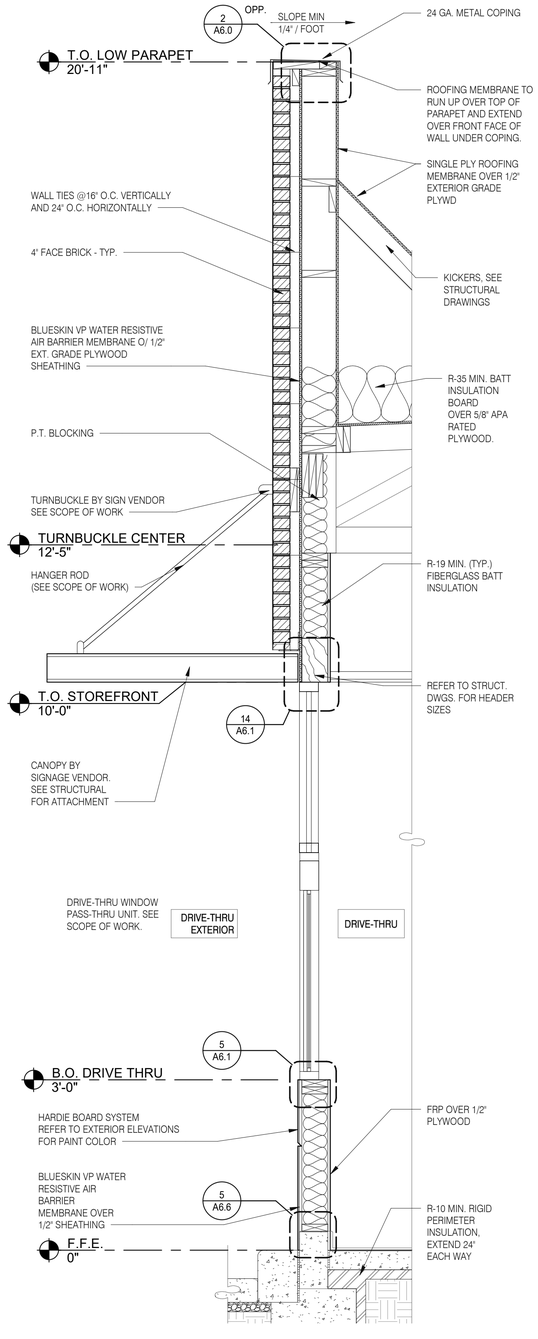
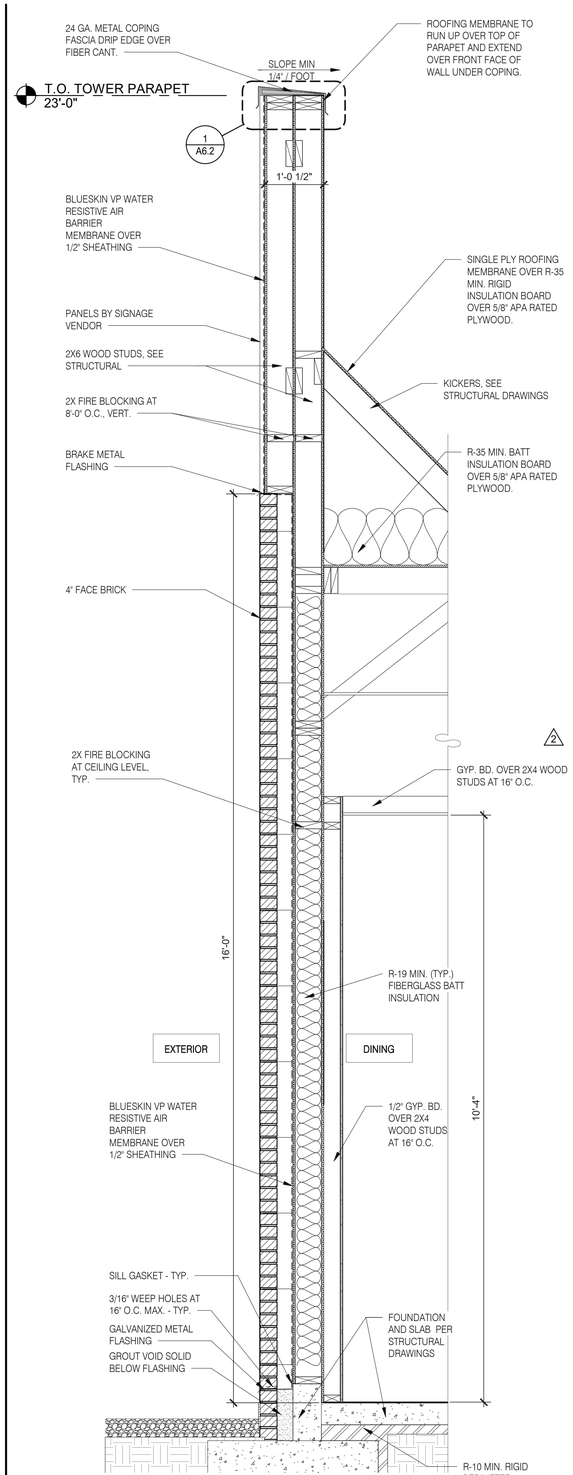


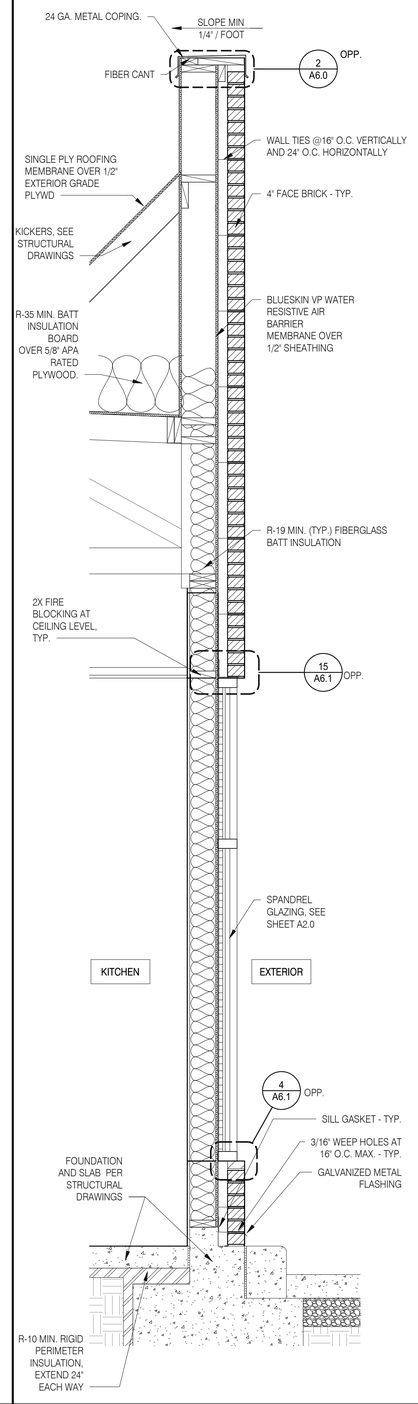
TYPICAL WALL SECTION 3/4" = 1'-0" **D**



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



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



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

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ENDEAVOR XS-6
WALL SECTIONS

A5.2

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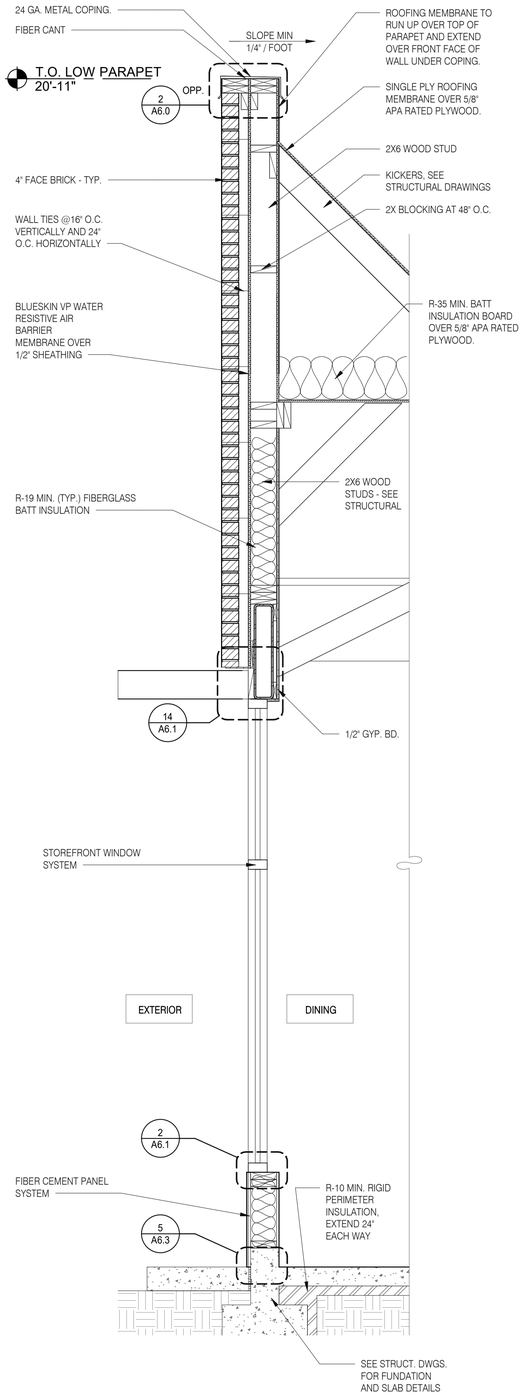
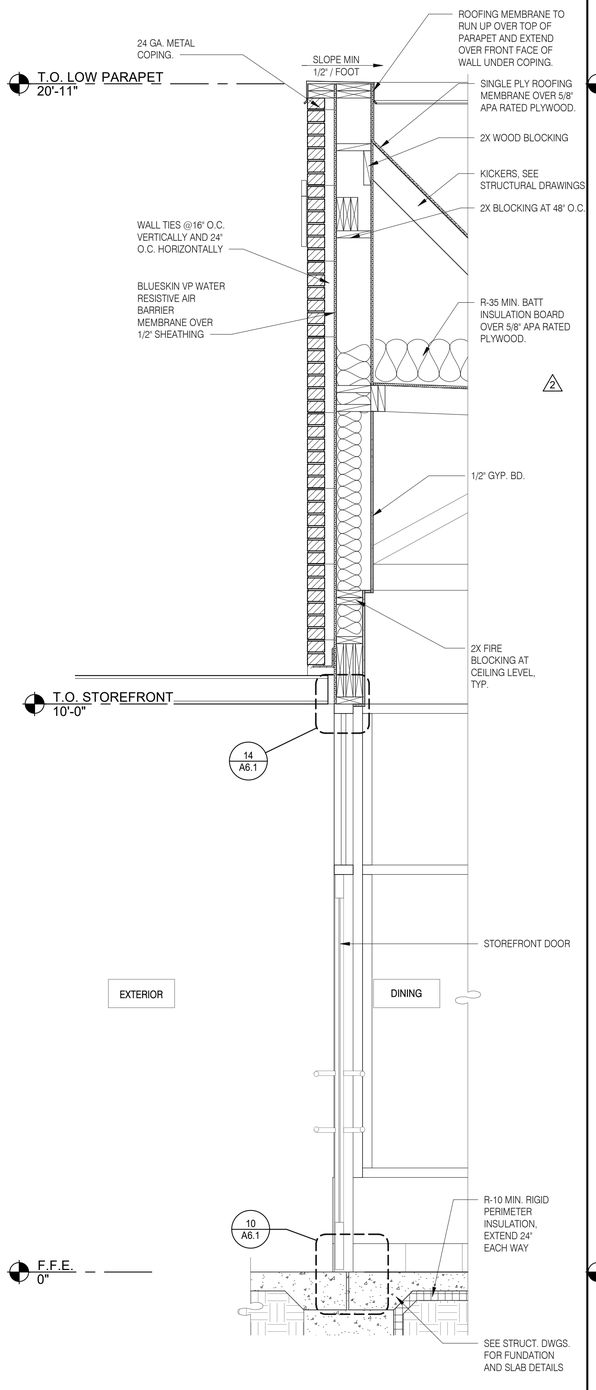
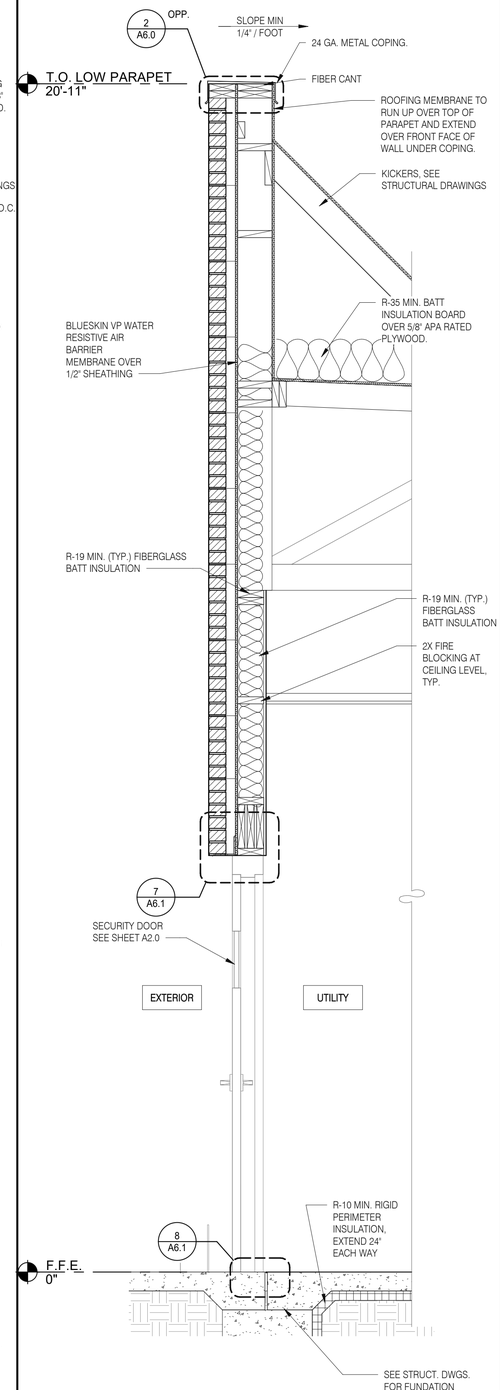


FRONT WALL SECTION 3/4" = 1'-0" **C**



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



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

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
2	05.24.21	NTP/Engineering Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. XS-6
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
WALL SECTIONS

A5.3

PLOT DATE: 6/14/2021 7:36:37 AM

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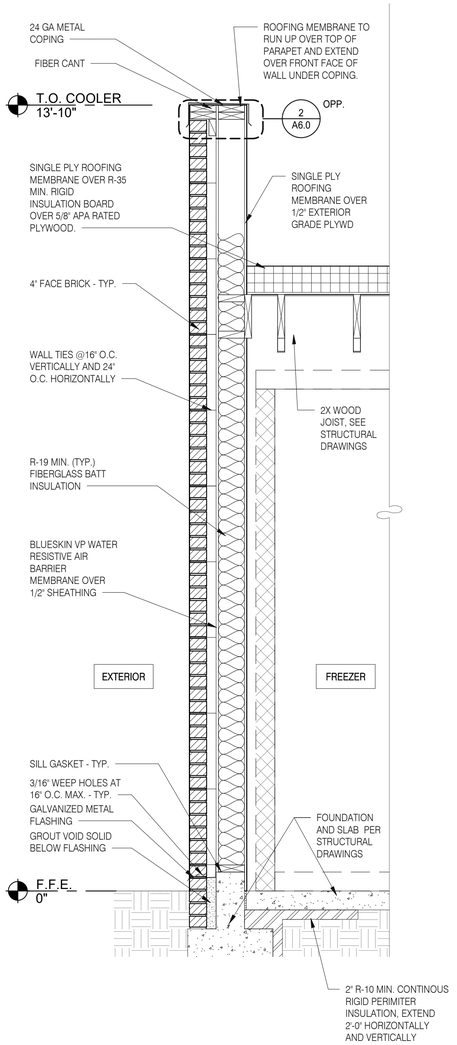
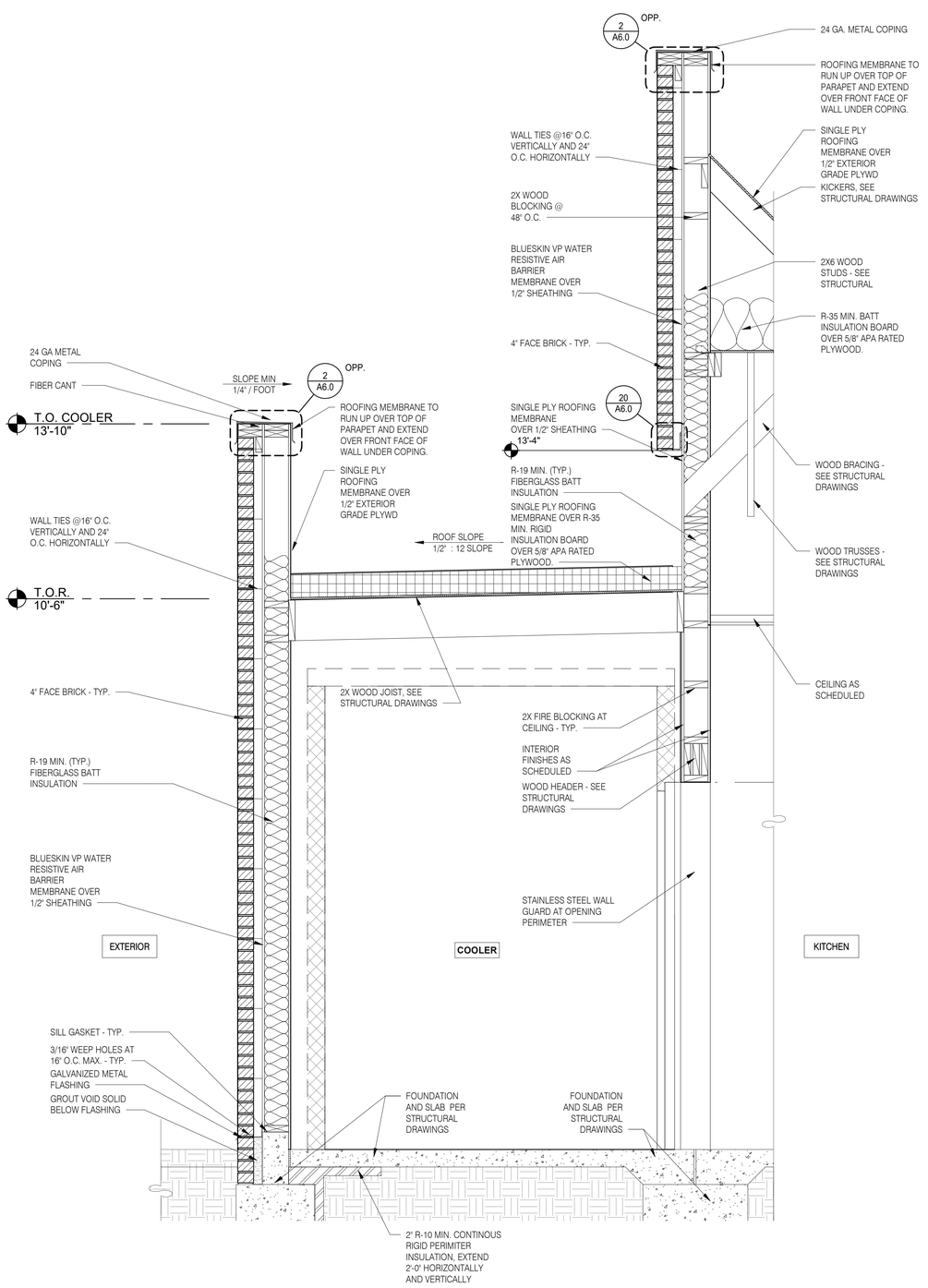


WALL SECTION 3/4" = 1'-0" **B**



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

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. XS-6
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
WALL SECTIONS

A5.4

PLOT DATE: 6/14/2021 7:36:40 AM

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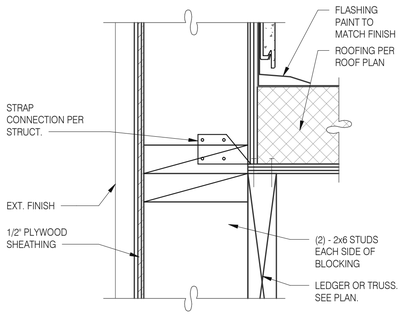
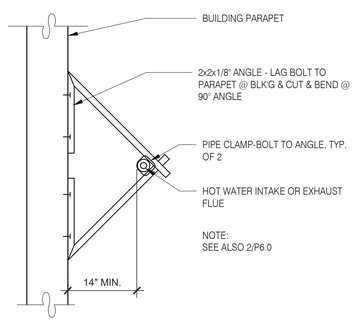
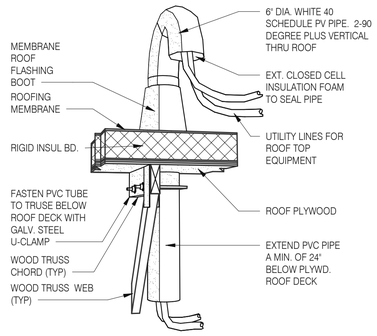


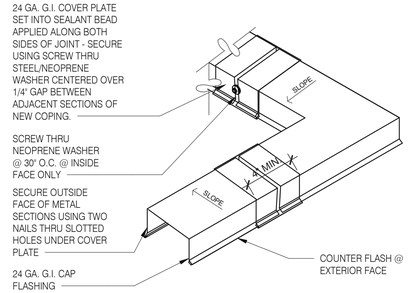
CON. @ STUD AND @ BLOCKING 3" = 1'-0" **17**



W.H. FLU / INTAKEN PIPE SUPPORT 3" = 1'-0" **13**

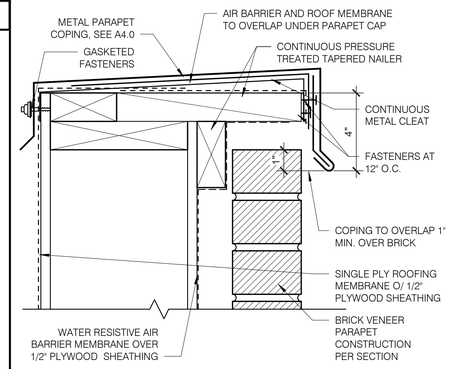


PIPE HOOD N.T.S. **9**

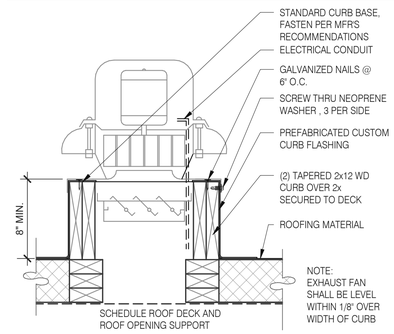


NOTE: JOINTS ARE TO OCCUR AT 10'-0" MAX.

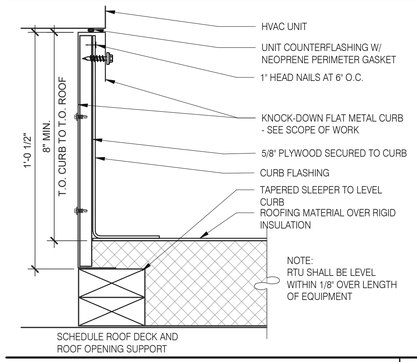
COPING JOINT N.T.S. **5**



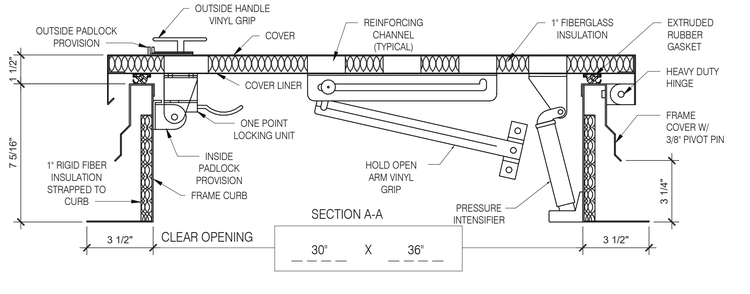
PARAPET CAP N.T.S. **2**

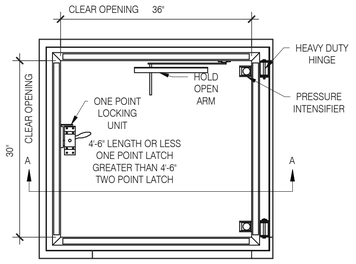


EXHAUST FAN CURB 3" = 1'-0" **18**



HVAC CURB 3" = 1'-0" **14**





HATCH MATERIAL:

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

HATCH FINISH:

GALV - PRIME PAINTED

MANUFACTURER:

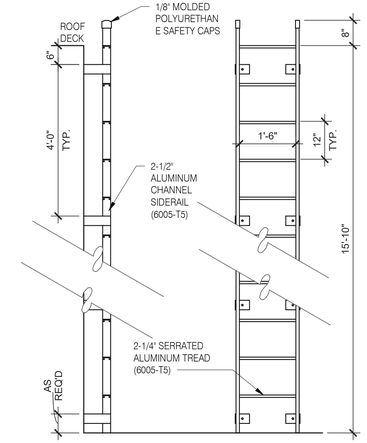
PRECISION LADDERS, LLC OR EQUAL

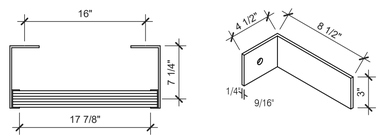
NOTES:

(1) ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS.

(2) FOR OPERATING EFFICIENCY, HATCH HARDWARE VARIES BY SIZE. EXAMPLE MODEL#: PH- A/G OPENING SIZE IN FEET-INCHES (PH-G2630)

ROOF LADDER AND HATCH 3" = 1'-0" **7**

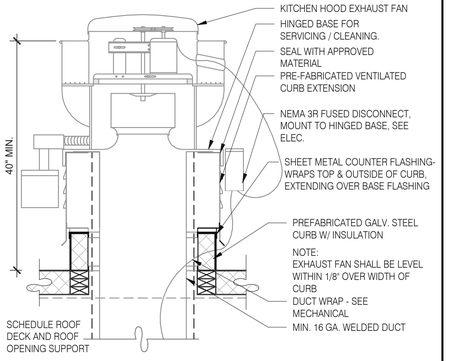




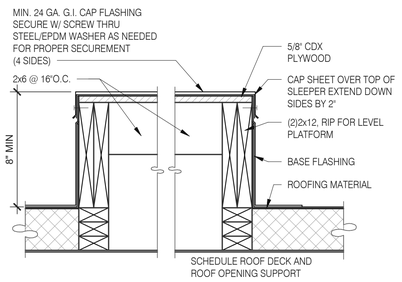
PLAN

BRACKET DETAIL

ROOF LADDER N.T.S. **4**

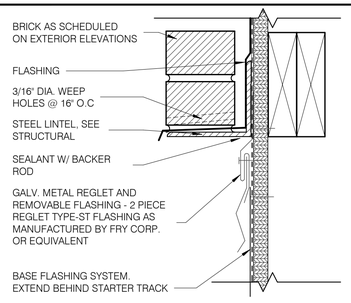


EXHAUST FAN CURB 3" = 1'-0" **19**

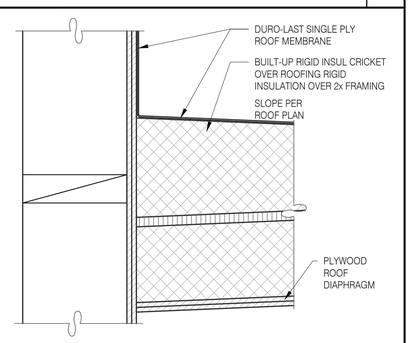


NOTE: SET SUPPORTS ON SOLID NON-RIBBED NEOPRENE, AND SECURE LAG BOLTS THROUGH STEEL/NEOPRENE WASHER

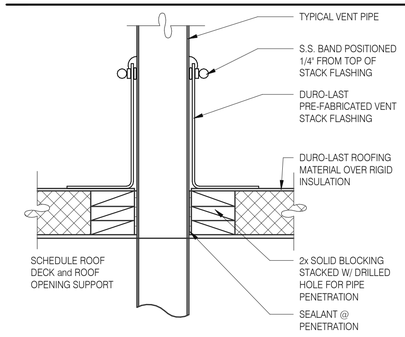
EQUIPMENT PLATFORM SUPPORT 3" = 1'-0" **15**



BRICK TO ROOFING TRANSITION 3" = 1'-0" **20**



CRICKET 3" = 1'-0" **16**



SEALED PIPE FLASHING 3" = 1'-0" **12**

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DRAWN BY.:	
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6

CONSTRUCTION DETAILS ROOF

A6.0

PLOT DATE: 6/14/2021 7:36:46 AM

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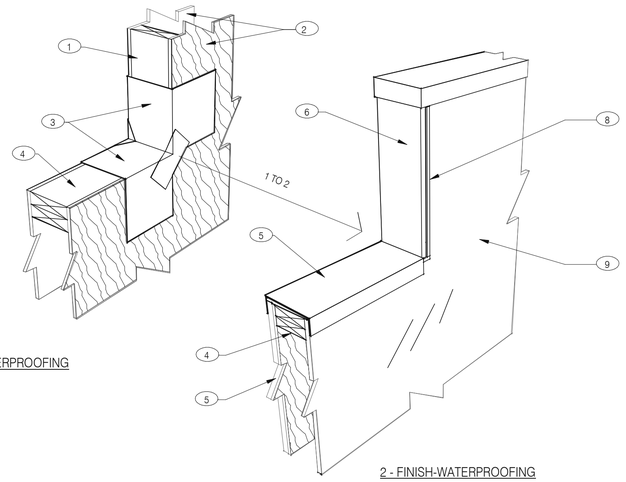
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



1 - PRE-WATERPROOFING

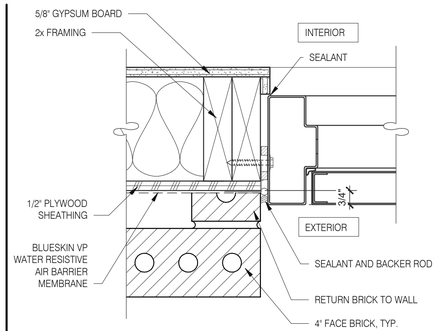
2 - FINISH-WATERPROOFING

NOTES

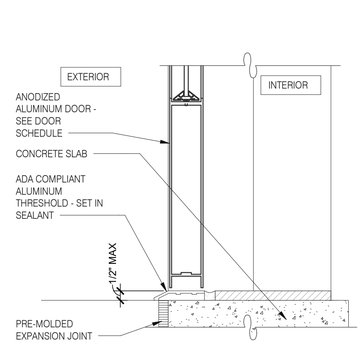
1. 2X WOOD STUDS
2. PLYWOOD SUBSTRATE FOR EXTERIOR WALLS
3. FLASHING TAPE AT ALL VERTICAL PARAPET TRANSITIONS. EXTEND TAPE 12" OUTWARD AND UPWARD FROM CORNER AS SHOWN. LAP CORNERS WITH ANGLED TAPE AS SHOWN TO INSURE FULL COVERAGE AT CORNERS
4. DOUBLE 2X TOP PLATE.
5. PAINTED 24 GAUGE PARAPET COPING. SLOPE 1/4:1 TOWARDS ROOF WITH FIBER CANT STRIPS UNDER COPING. LAP FRONT AND BACK EDGE 2" DOWN VERTICAL FACE. LAP EXPOSED COPING EDGE EXPOSED ENDS AT VERTICAL PARAPET TRANSITION.
6. WRAP EXTERIOR FINISH MATERIAL ONTO VERTICAL FACE OF PARAPET TRANSITION, SEE EXTERIOR ELEVATIONS.
7. EXTERIOR FINISH MATERIAL AS NOTED ON EXTERIOR ELEVATIONS ON SHEET A4.0
8. TERMINATION BAR AT VERTICAL TRANSITION OF EXTERIOR FINISH MATERIAL AND MEMBRANE ROOFING. SEAL VERTICAL GAP BETWEEN TERMINATION BAR AND EXTERIOR FINISH PER ROOFING MANUFACTURER SPECIFICATIONS.
9. PVC ROOFING MEMBRANE ON BACKSIDE OF PARAPET.

IMPORTANT : ONLY FASTEN PARAPET COPING ALONG THE FRONT AND BACK VERTICAL EDGE. NEVER ON TOP OF COPING.

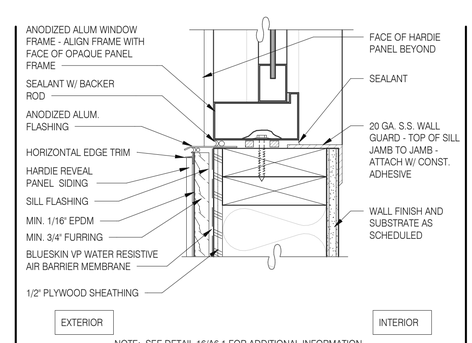
PARAPET CAP & TRANSITION 1" = 1'-0" **13**



JAMB SERVICE DOOR 3" = 1'-0" **9**

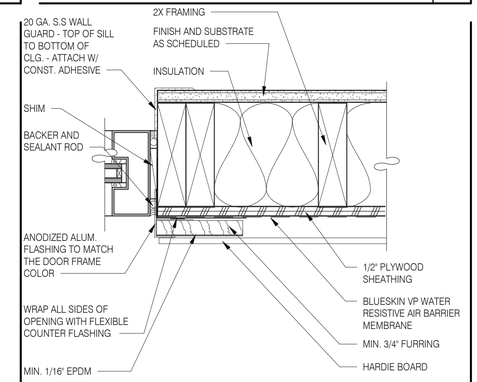


STOREFRONT DOOR SILL 3" = 1'-0" **10**

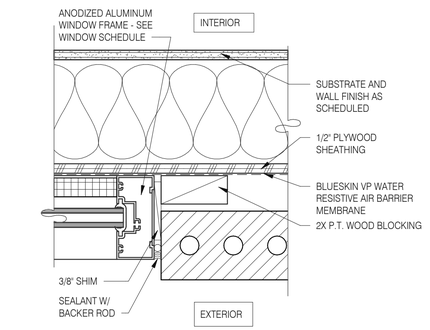


NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

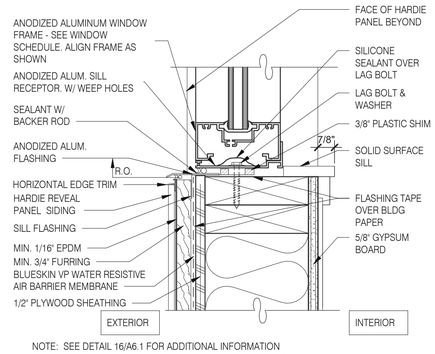
WINDOW SILL @ DRIVE THRU 3" = 1'-0" **5**



WINDOW JAMB @ DRIVE THRU 3" = 1'-0" **6**

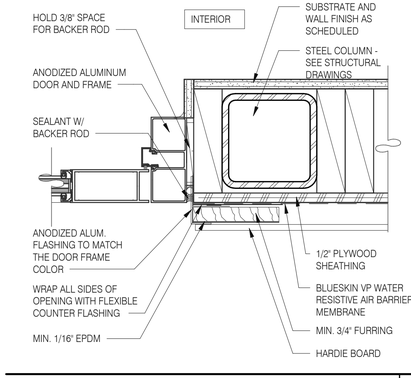


A61_WINDOW JAMB AT SPANDREL 3" = 1'-0" **1**

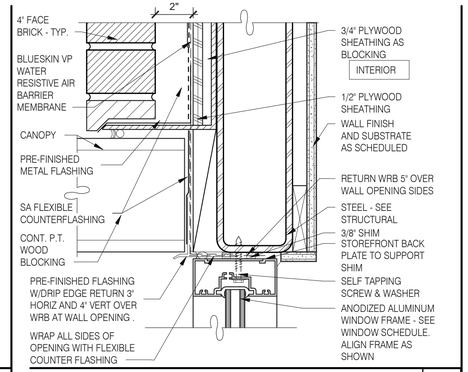


NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

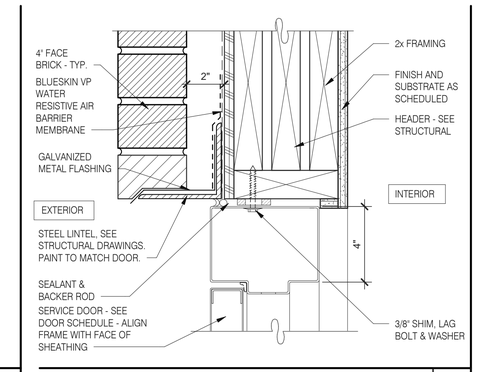
TYPICAL WINDOW SILL 3" = 1'-0" **2**



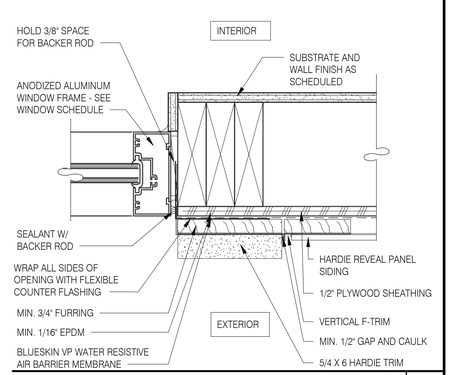
DOOR JAMB 3" = 1'-0" **16**



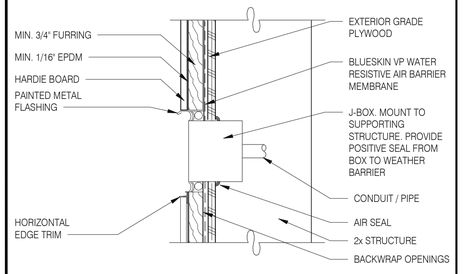
TYPICAL WINDOW HEAD W/ CANOPY 3" = 1'-0" **14**



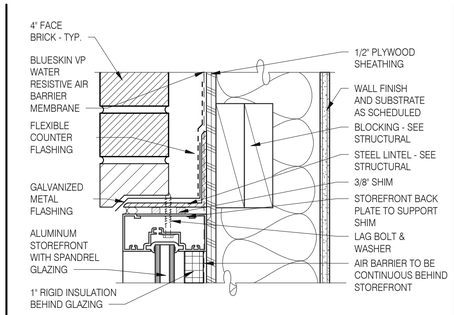
HEAD/ JAMB @ SERVICE DOOR 3" = 1'-0" **7**



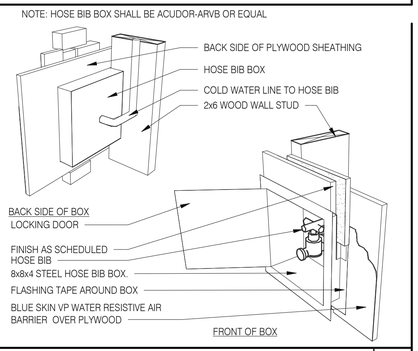
TYPICAL WINDOW JAMB 3" = 1'-0" **3**



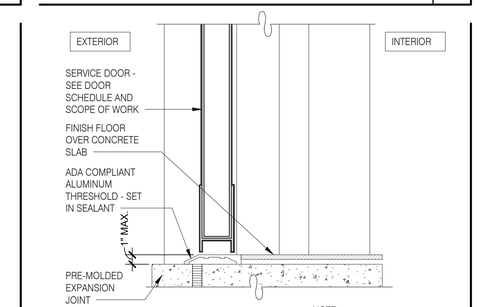
CO2 FILL / J-BOX 3" = 1'-0" **17**



WINDOW HEAD AT SPANDREL 3" = 1'-0" **15**

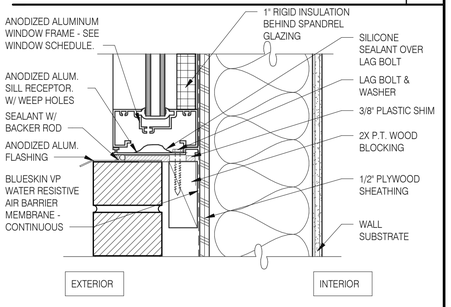


HOSE BIB BOX 3" = 1'-0" **12**



NOTE:
SEE FLOOR FINISH PLAN FOR FLOOR FINISHES

THRESHOLD @ SERVICE DOOR 3" = 1'-0" **8**



NOTE: SEE DETAIL 16/A6.1 FOR ADDITIONAL INFORMATION REGARDING WATER PROOFING AT AND NEAR WINDOWS / DOORS

SILL AT SPANDREL 3" = 1'-0" **4**

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DRAWN BY.:	RS
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
CONSTRUCTION DETAILS DOOR/WINDOW

A6.1

PLOT DATE: 6/14/2021 7:36:50 AM

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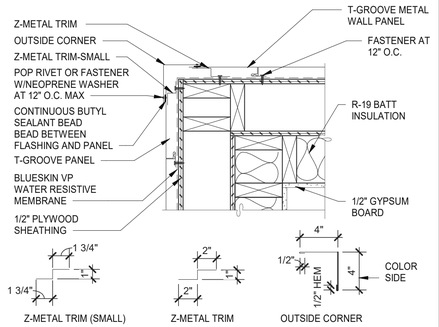
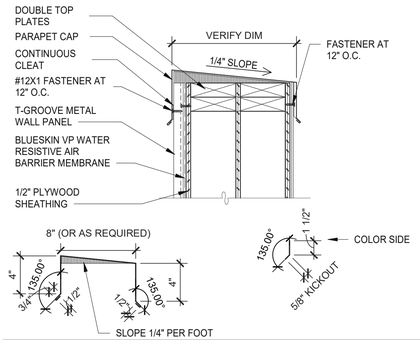
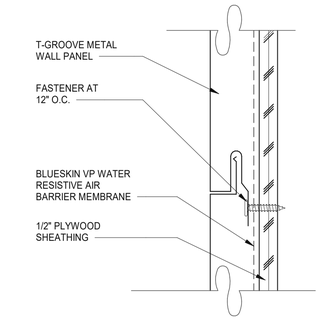


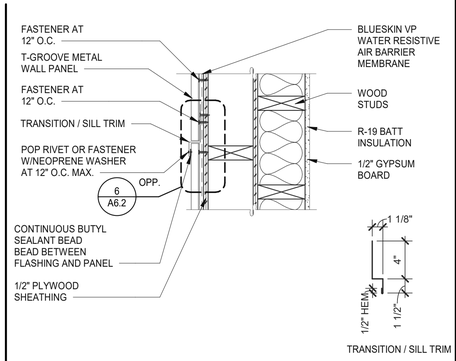
OUTSIDE CORNER 1 1/2" = 1'-0" **5**



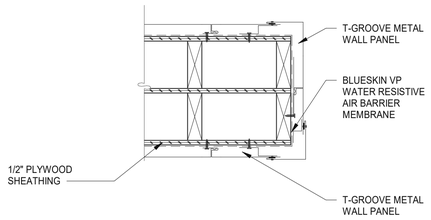
PARAPET 1 1/2" = 1'-0" **1**



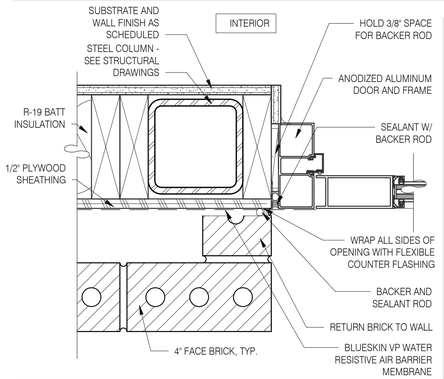
PANEL JOINT 6" = 1'-0" **6**



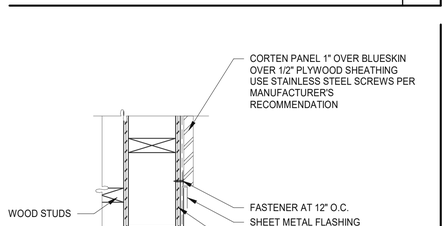
VERTICAL PANEL JOINT 1 1/2" = 1'-0" **2**



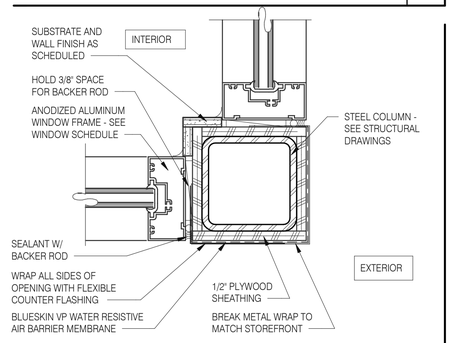
CORTEN T-GROOVE METAL PANEL 1 1/2" = 1'-0" **11**



STOREFRONT JAMB AT TOWER 3" = 1'-0" **7**



METAL PANEL/ROOFING TRANSITION 1 1/2" = 1'-0" **12**



STOREFRONT CORNER 3" = 1'-0" **8**

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CONTRACT DATE: 12.1.20
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PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
CONSTRUCTION DETAILS WALL

A6.2

PLOT DATE: 6/14/2021 7:36:53 AM

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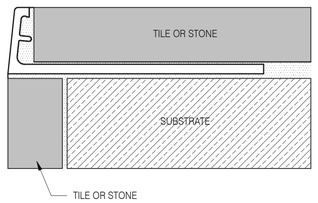
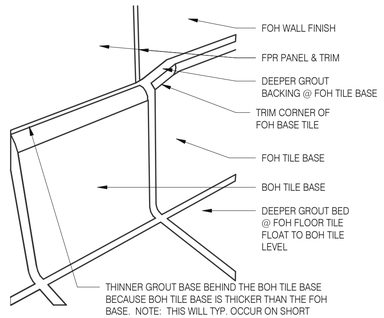
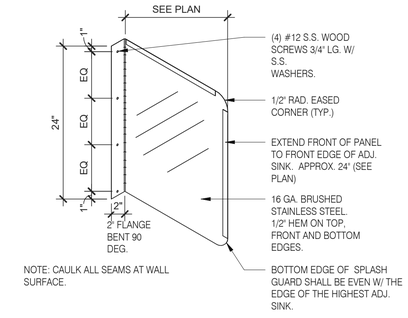


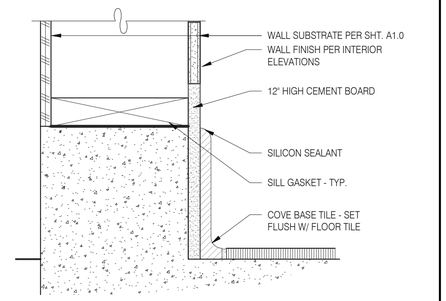
SCHLUTER JOLLY CORNER GUARD 1 1/2" = 1'-0" | **17**



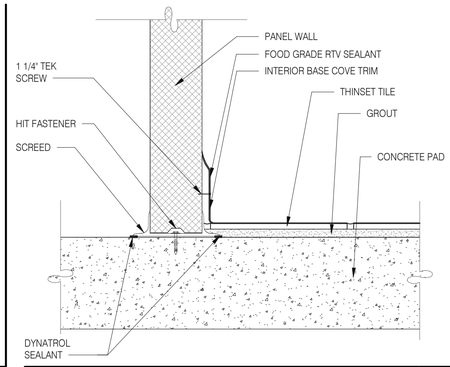
TILE BASE TRANSITION 12" = 1'-0" | **13**



SPLASH GUARD 1" = 1'-0" | **9**

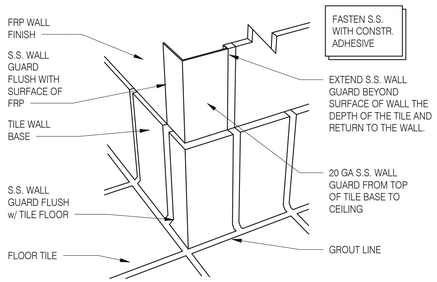


BASE @ DINING EXT. SIDE WALLS 3" = 1'-0" | **5**



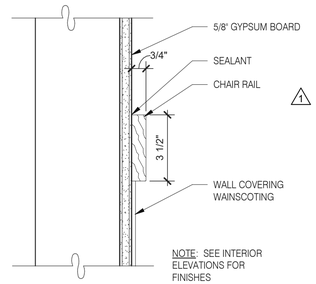
WALK-IN TILE/BASE 1 1/2" = 1'-0" | **1**

NOT USED | **18**

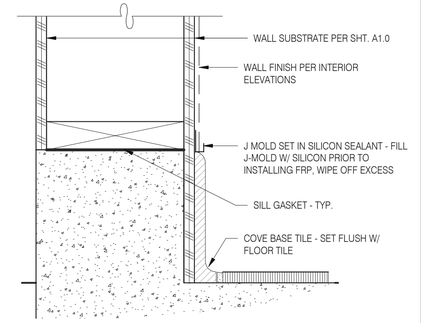


NOTE : THIS DETAIL SHOW A 90 DEGREE CORNER. ADAPT THIS DETAIL AND APPLY WHERE WALLS EXTEND INTO SPACE.

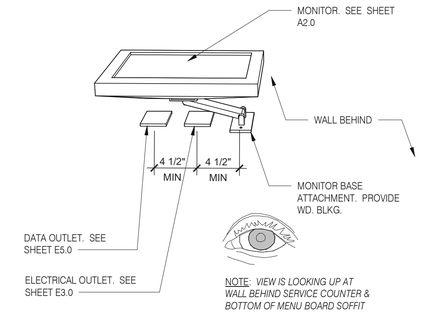
S.S. CORNER & END WALL GUARD 12" = 1'-0" | **14**



CHAIR RAIL DETAIL 3" = 1'-0" | **10**

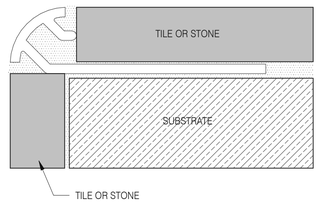


BASE @ EXT. WALL 3" = 1'-0" | **6**

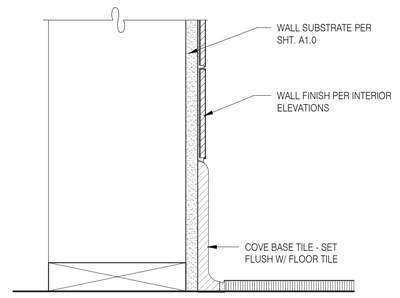


WALL MOUNT MONITOR 1 1/2" = 1'-0" | **2**

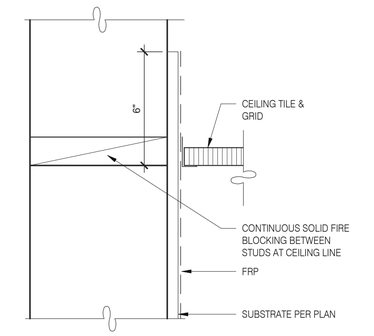
NOT USED | **19**



SCHLUTER CORNER GUARD 1 1/2" = 1'-0" | **15**

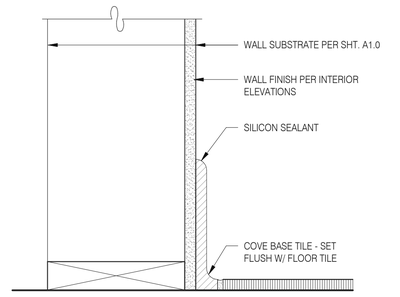


BASE IN RESTROOM 3" = 1'-0" | **7**

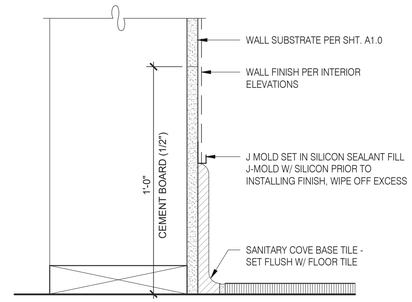


KITCHEN FINISH @ CEILING 3" = 1'-0" | **3**

NOT USED | **20**



BASE @ DINING ROOM INT. WALL 3" = 1'-0" | **8**



BASE @ KITCHEN INT. WALL 3" = 1'-0" | **4**

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PA/PM: JW
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JOB NO.: 2019088.10

TACO BELL

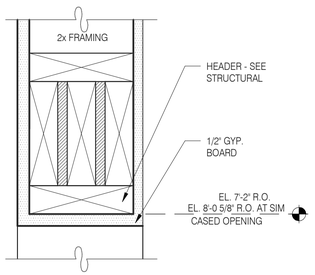
1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
FINISH DETAILS

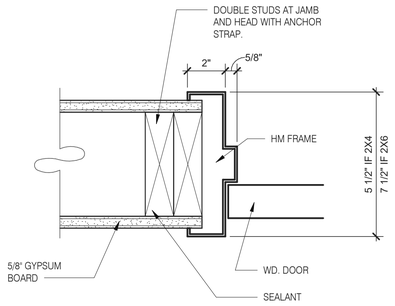
A6.3

PLOT DATE: 6/14/2021 7:36:57 AM

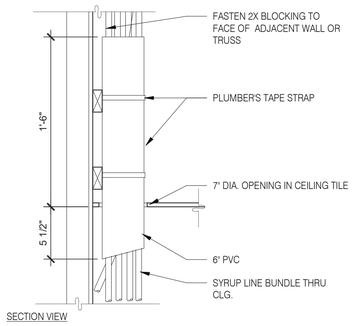
C:\Users\rsmith\Documents\TB_Lincoln Park MI_ARCH_Rusty1.rvt



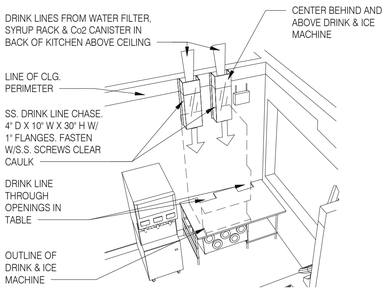
CASED OPENING DETAIL N.T.S. **5**



HEAD/JAMB @ H.M. DOOR N.T.S. **6**

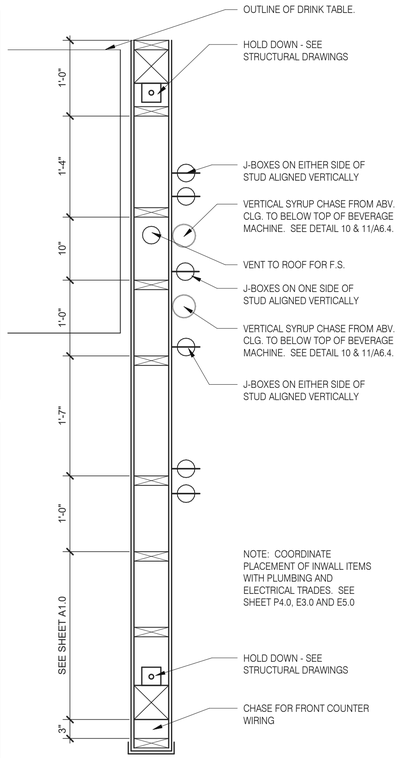


SYRUP BUNDLE CLG. 1 1/2" = 1'-0" **10**



NOTE: SEE DETAIL 8/P6.0 DRINK SYSTEM SCHEMATIC & DETAIL 6/P6.0 and 7/P6.0 FOR DRINK LINES

SYRUP CHASE ON WALL 1 1/2" = 1'-0" **11**



INTERIOR CHASE WALL N.T.S. **7**

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DRAWN BY.:	
JOB NO.:	2019088.10

TACO BELL

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LINCOLN PARK, MI 48146

ENDEAVOR XS-6

CONSTRUCTION DETAILS INTERIOR

A6.4

PLOT DATE: 6/14/2021 7:36:59 AM

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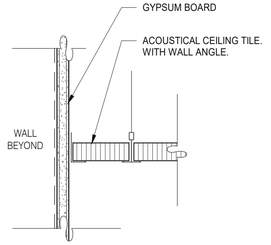
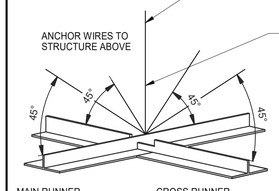


GYPSUM BOARD TRANSITION 3" = 1'-0" **13**

LATERAL BRACING: 4-12 GA. WIRES SECURED TO MAIN RUNNER WITHIN 2" OF CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EACH OTHER AT ANGLE NOT TO EXCEED 45° FROM THE PLANE OF THE CEILING TYP. @ 12'-0" EA. WAY BEGINNING 6'-0" MAX. FROM WALL.



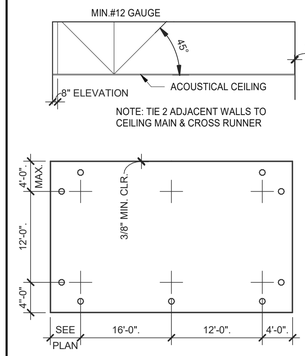
AT SUSPENDED CEILING: VERTICAL HANGER WIRE AT 4'-0" O.C. W/ (2) 1 1/2" x 9" GA. STAPLES @ LOOP & (1) ACROSS LAP. 3 FULL TURNS MINIMUM WITHIN 3" LENGTH

AT OPEN GRID: VERTICAL SUSPENSION WITH THREADED ROD PER OTHER DETAILS.

NOTE:

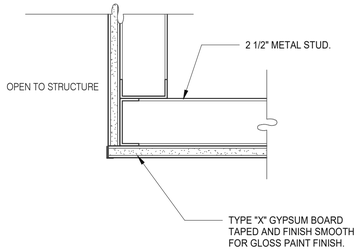
- ALL WIRES 12 GA.
- PROVIDE 6" CLEARANCE AT ALL PIPES & DUCTS, ETC.
- BRACING WIRES MUST BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOADS, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

SUSPENDED ACOUSTICAL CEILING 3" = 1'-0" **9**



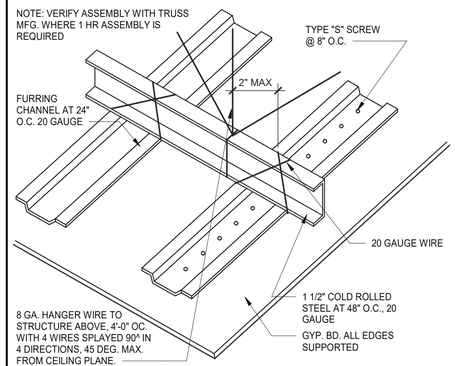
CEILING GRID USES #12 GUAGE
SPLAY WIRE HANGERS AT 45 DEG. AND 90 DEG. TO EACH OTHER (4 WIRES) BEGINNING 48" FROM STARTING POINT OF GRID AND TILE LAYOUT AND IN BOTH DIRECTIONS AT 12'-0" THEREAFTER ALL CLEARANCES.
TIES TO WALL, ETC.TO CONFORM TO STATE & LOCAL CODES.

SUSPENDED CEILING GRID 12" = 1'-0" **10**

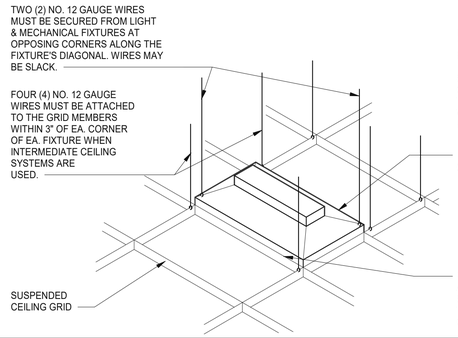


CEILING TRANSITION 3" = 1'-0" **11**

NOTE: VERIFY ASSEMBLY WITH TRUSS MFG. WHERE 1 HR ASSEMBLY IS REQUIRED



GYPSUM BOARD CEILING 3" = 1'-0" **6**



LIGHT FIXTURE @ SUSP. CLNG. 12" = 1'-0" **8**

MEMBER DEPTH:

(EXAMPLE: 6" = 600 X 1/100 INCHES) ALL MEMEBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE DIMENSION.

600 S 162 - 54

STYLE:

(EXAMPLE: STUD OR JOIST SECTION = S) THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:

S = STUD OR JOIST, T = TRACK, U = CHANNEL, F = FURRING

FLANGE WIDTH:

(EXAMPLE: 1 5/8" = 1.625" ~ 162 X 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

MATERIAL THICKNESS:

(EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL =1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

CEILING SPAN TABLE NOTES:

1. VALUES ARE FOR SINGLE SPANS.
2. ALLOWABLE CEILING SPAN CALCULATIONS BASED ON 33KSI YIELD STRENGTH STEEL.
3. FOR FULLY BRACED CEILINGS, USE MID-SPAN BRACED VALUES.
4. END BEARING LENGTH = 1" MINIMUM.

SECTION:	(MIL)	4 PSF LATERAL SUPPORT OF COMPRESSION FLANGE UNSUPPORTED JOIST SPACING (IN.) O.C. 12"	16"	24"	MID-SPAN JOIST SPACING (IN.) O.C. 12"	16"	24"
362S125	18	9'-3"	8'-7"	7'-7"	12'-8"	11'-7"	10'-0"
362S125	27	10'-8"	9'-10"	8'-10"	15'-0"	13'-11"	12'-4"
362S125	30	11'-0"	10'-2"	9'-1"	15'-6"	14'-4"	12'-10"
362S125	33	11'-5"	10'-7"	9'-5"	16'-2"	14'-10"	13'-3"
362S125	43	12'-8"	11'-8"	10'-5"	17'-9"	16'-5"	14'-8"
362S137	27	12'-0"	11'-2"	10'-0"	17'-2"	15'-11"	14'-3"
362S137	33	12'-11"	11'-11"	10'-8"	18'-4"	16'-11"	15'-2"
362S137	43	14'-3"	13'-2"	11'-8"	20'-0"	18'-6"	16'-7"
362S162	33	14'-8"	13'-7"	12'-2"	20'-10"	18'-11"	16'-6"
362S162	43	16'-2"	14'-11"	13'-4"	22'-8"	20'-7"	18'-0"
400S125	27	10'-11"	10'-1"	9'-1"	15'-5"	14'-3"	12'-9"
400S125	30	11'-4"	10'-5"	9'-4"	16'-0"	14'-9"	13'-2"
400S125	33	11'-9"	10'-10"	9'-8"	16'-7"	15'-3"	13'-8"
400S125	43	13'-0"	12'-0"	10'-8"	18'-3"	16'-10"	15'-0"
400S137	27	12'-4"	11'-5"	10'-3"	17'-7"	16'-4"	14'-8"
400S137	33	13'-3"	12'-3"	10'-11"	18'-9"	17'-4"	15'-7"
400S137	43	14'-7"	13'-6"	12'-0"	20'-7"	19'-0"	17'-0"
400S162	33	15'-0"	13'-11"	12'-6"	21'-5"	19'-10"	17'-9"
400S162	43	16'-7"	15'-3"	13'-8"	23'-4"	21'-7"	19'-4"
600S125	27	12'-5" ●	11'-6" ●	10'-4" ●	17'-11" ●	16'-6" ●	14'-9" ●
600S125	30	12'-9"	11'-10"	10'-8"	18'-5"	17'-1"	15'-3"
600S125	33	13'-2"	12'-3"	11'-0"	18'-11"	17'-7"	15'-10"
600S125	43	14'-6"	13'-4"	11'-11"	20'-6"	19'-0"	17'-0"
600S137	33	14'-11"	13'-9"	12'-5"	21'-5"	19'-10"	17'-10"
600S137	43	16'-3"	15'-0"	13'-5"	23'-1"	21'-5"	19'-3"
600S162	33	16'-11"	15'-8"	14'-1"	24'-5"	22'-8"	20'-5"
600S162	43	18'-5"	17'-0"	15'-3"	26'-4"	24'-4"	21'-11"

● INDICATES THAT WEB STIFFENERS ARE REQUIRED AT ENDS

NOTE: ALL JOIST INFORMATION IS BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) **ICC ESR-3064P**

ALLOWABLE CEILING SPANS-L/240 12" = 1'-0" **3**

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TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
CEILING DETAILS

A6.5

PLOT DATE: 6/14/2021 7:37:02 AM

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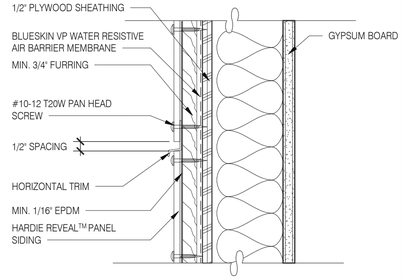
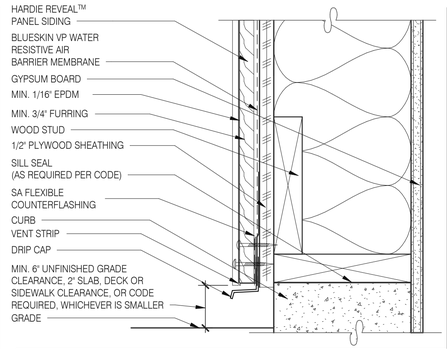
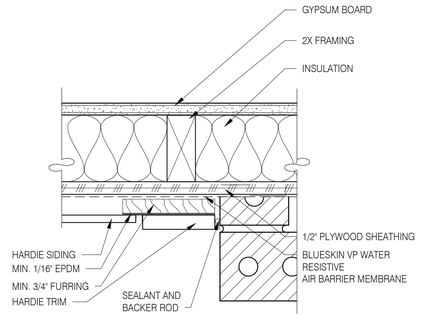
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



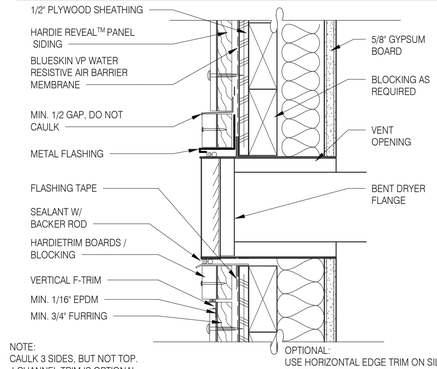
PANEL WITH HORIZONTAL TRIM 3" = 1'-0" **9**



FOUNDATION @ GRADE 3" = 1'-0" **5**



PANEL WITH VERTICAL TRIM 3" = 1'-0" **10**



BLOCK PENETRATION TREATMENT 3" = 1'-0" **3**

GPD GROUP
Professional Corporation
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AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
HARDIE BOARD DETAILS

A6.6

PLOT DATE: 6/14/2021 7:37:03 AM

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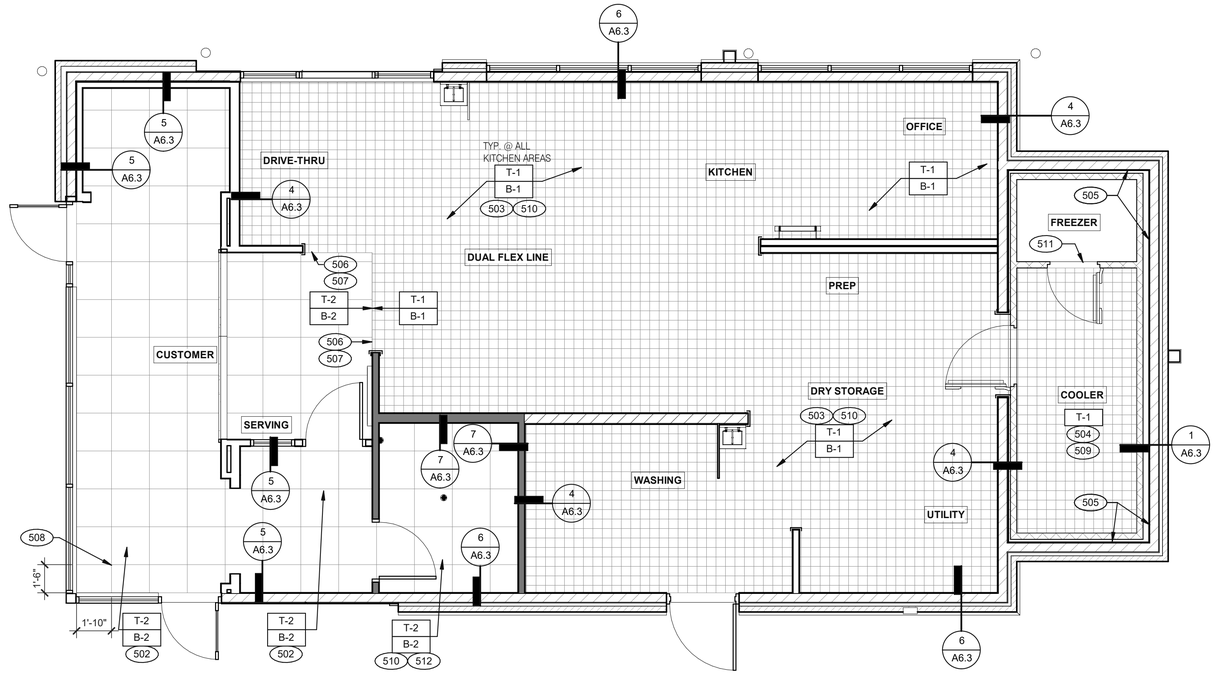

FLOOR FINISH PLAN 1/4" = 1'-0" **A**

KEY NOTES

502 6" COVE TILE BASE. SEE DETAILS 5 & 8/A6.3.
503 6" SANITARY COVE TILE BASE. SEE DETAILS 4, 6/A6.3.
504 PROVIDE FLOOR TILE INSIDE WALK-IN COOLER (NO TILE OR BASE IN FREEZER). FLOAT FLOOR TILE IN COOLER TO DRAIN TO KITCHEN. COORDINATE WITH COOLER WALL CONFIGURATION.
505 NO BASE TILE BEHIND W-059 WALK-IN COOLER/FREEZER.
506 ALIGN FLOOR TILE TRANSITION WITH FACE OF WALL.
507 FLOAT FLOOR TILE FOR FLUSH TRANSITION.
508 START POINT FOR FLOOR TILE.
509 METAL BASE IN COOLER; SEE SCOPE OF WORK. SEE DETAIL 1/A6.3.
510 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE FLOOR SLOPES AROUND FLOOR DRAINS.
511 STEP-UP AT FREEZER TRESHOLD.
512 SANITARY TILE BASE IN RESTROOM.

KEY NOTES **B**

FLOOR FINISH NOTES

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

B. TILE JOINT (U.O.N.):
1.QUARRY FLOOR TILE: 1/4"
2.PORCELAIN FLOOR TILE: 3/16"
3.GLAZED WALL TILE: 1/8"
4.BASE, TRIM AND ACCESORIES: MATCH ADJOINING TILE UNITS

C. TILE INSTALLATIONS REQUIRE MANUFACTURERS STANDARD MOLDED CORNERS AT BOTH INSIDE AND OUTSIDE CORNERS.

D. ALL BASE TILE SHALL BE SANITARY COVE STYLE WITH 3/8" MIN RADIUS INLESS NOTED OTHERWISE.

E. SEE SCOPE OF WORK SHEETS FOR RESPONSIBILITIES.

F. PROVIDE CLEAR SILICONE CAULK WHERE FRP STOPS AT TOP OF COVE BASE.

G. TILE CHIPPING AROUND CORE DRILL HOLES FOR SEATING FIXTURE WILL NOT BE ACCEPTED.

FLOOR FINISH NOTES **C**

NOT USED **D**

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TACO BELL

1519 SOUTHFIELD RD.
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ENDEAVOR XS-6
FLOOR FINISH PLAN

A7.0

PLOT DATE: 6/14/2021 7:37:07 AM

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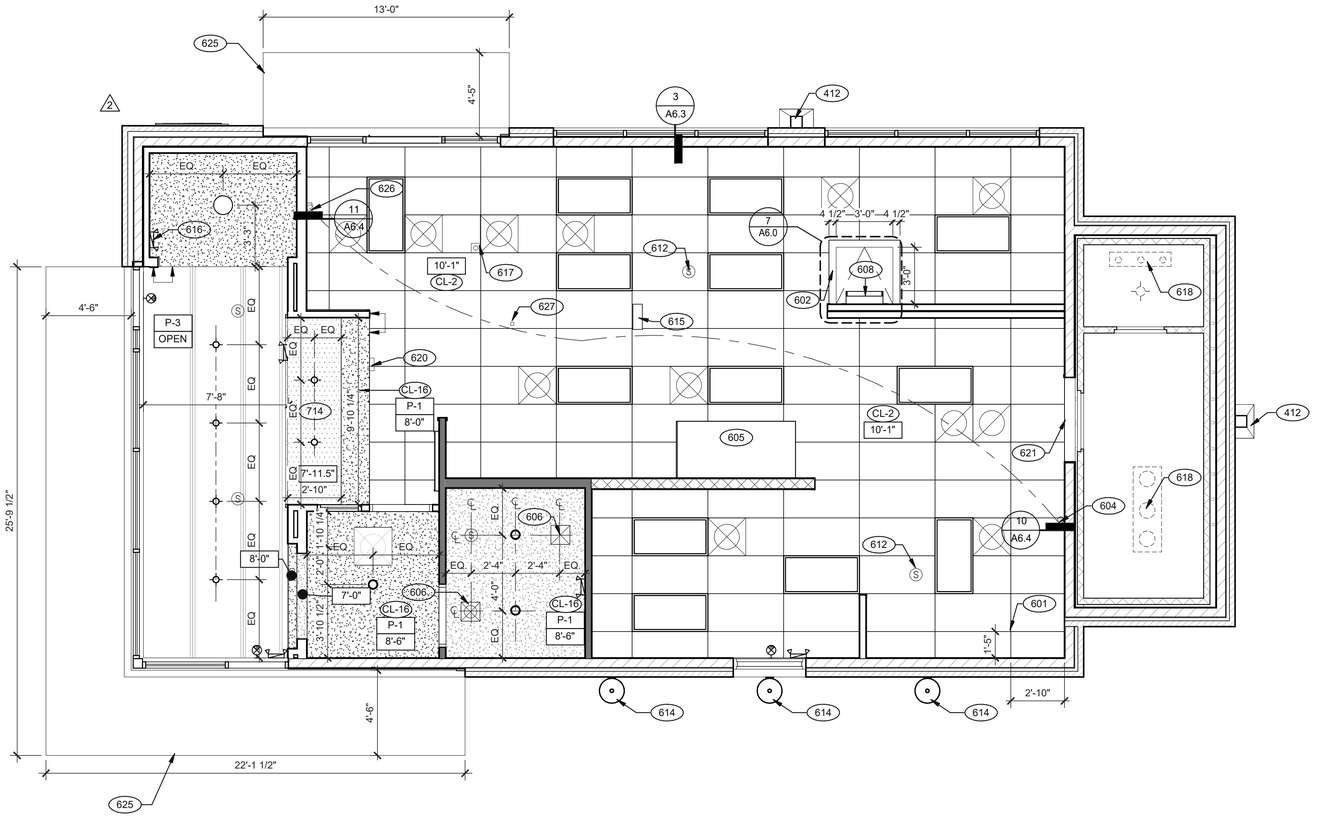

REFLECTED CEILING PLAN 1/4" = 1'-0" A

CEILING SYMBOL LEGEND D

- 2'-0" x 4'-0" LED TROFFER
- 2'-0" x 4'-0" LED LIGHT FIXTURE
- DOWNLIGHT @ WALK-IN (BY WALK-IN MFR.)
- PENDANT FIXTURE.
- DOWNLIGHT - CENTER ON CEILING TILE
- EMERGENCY LIGHT
- EXIT LIGHT (WALL MOUNTED)
- EXIT LIGHT (CEILING MOUNTED)
- EXTERIOR WALL FIXTURE
- SPEAKER - CENTER ON CEILING TILE
- 12" EXHAUST FAN
- HVAC RETURN GRILLE
- HVAC SUPPLY DIFFUSER
- BACK DOOR SECURITY STROBE LIGHT
- OCCUPANCY SENSOR. CEILING MOUNTED

REFLECTED CEILING PLAN NOTES C

DIMENSIONS:
A. ALL DIMENSIONS ARE TO FACE OF FINISH U.O.N.

CEILING FINISHES:
A. REFER TO ROOM FINISH SCHEDULE (SHT A7.2) FOR CLG. FINISHES.

SUSPENDED CEILING:
A. ACOUSTICAL PANEL INSTALLATION: INSTALL ACOUSTICAL PANELS WITH EDGES IN CLOSE CONTACT WITH METAL SUPPORTS AND IN TRUE ALIGNMENT.
B. ALLOWABLE VARIATIONS FROM FLAT AND LEVEL SURFACE: 1/8" IN 10'-0" MAX.
C. ALLOWABLE VARIATIONS FROM PLUMB OF GRID MEMBERS: AS CAUSED BY ECCENTRIC LOADS, 2° MAX.
D. INSTALL SYSTEM AFTER MAJOR ABOVE CLG. WORK IS COMPLETE. COORD LOCATIONS OF HANGERS WITH RELATED WORK.
E. SEE SPECS FOR ADDITIONAL INFORMATION.

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

ELECTRICAL:
A. SEE ELECT. DWGS. FOR FIXTURE SCHED.

KEY NOTES B

412 SCUPPER, COLLECTOR AND VERTICAL DOWNSPOUT 6" MIN. SEE DETAIL D/A3.0.
601 CEILING GRID AT STARTING POINT.
602 BULKHEAD @ 8'-0" A.F.F.
604 6" DIAMETER PVC STUB THROUGH CEILING, SEE DETAIL 10/A6.4.
605 HOOD, SEE MECHANICAL DRAWINGS.
606 FOR ROUGH FRAMING OPENINGS SEE AIR DEVICE SCHEDULE (TYP. ALL RESTROOMS).
608 ROOF HATCH.
612 SPEAKER. CENTER ON CEILING TILE, UNO.
614 EXTERIOR WALL LIGHT FIXTURES, SEE ELEVATIONS AND ELECTRICAL DRAWINGS.
615 UTILITY CHASE BY 3RD PARTY VENDOR TO CEILING.
616 EMERGENCY DUAL HEAD FIXTURE. SEE ELECTRICAL DRAWINGS.
617 SECURITY STROBE LIGHT, REFER TO ELECTRICAL DRAWINGS.
618 FAN COIL FOR WALK-IN.
620 ALERT LIGHT BOX FOR 3-COMP POWER SOAK MOUNTED AT CENTERLINE OF BOX 7'-11" A.F.F.
621 30"X30" ACCESS OPENING IN REAR WALL ABOVE CEILING. FINISH WITH GYP. BD.
625 AWNING, SEE SCOPE OF WORK.
626 STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 11/A6.4.
627 WATER INLET CHASE FOR CHEESE MELTER SCREWED TO HEATED AIR SCREEN.
714 CORIAN SURROUND BY DECOR VENDOR.

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JOB NO.: 2019088.10

TACO BELL
1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
REFLECTED CEILING PLAN

A7.1

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FINISH LEGEND						
SYMBOL	MANUFACTURER	STYLE	COLOR	SIZE	GROUT	COMMENTS
CEILING						
CL-1	USG	ACT SYSTEM, USG RADAR, CLIMAPLUS PERFORMANCE, SQ EDGE	#107 TAUPE	2X2	N/A	USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #107 TAUPE
CL-2	USG	ACT SYSTEM, USG CLEAN ROOM ACOUSTICAL PANELS, CLIMAPLUS PERFORMANCE, SQ EDGE	#050 WHITE	2x4	N/A	CLASS 100 (ISO 5) PANELS, USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #050 WHITE
CL-3	USG	ACT SYSTEM, USG CLEAN ROOM ACOUSTICAL PANELS, CLIMAPLUS PERFORMANCE, SQ EDGE	#050 WHITE	2X2	N/A	CLASS 100 (ISO 5) PANELS, USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #050 WHITE
CL-4	USG	USG COMPASSO STANDARD	#002 SILVER SATIN	10"H PROFILE		SEE PLANS AND DETAILS FOR MORE INFO
CL-16	N/A	GYPSUM BOARD	PAINTED PER RCP			
CHAIR RAIL						
CR-1	SW	SW7043	WORLDLY GRAY	3 1/2" X 3/4"		SEMI-GLOSS
FLOOR BASE						
B-1	CMC	QUARRY	PURITAN GREY #507	6X6	MAPEI #9 GRAY, 1/8" JOINT WIDTH	KERAPOXY GROUT IEG CQ
B-2	CMC	MOTIF GREY	GREY	6X12	MAPEI, #2 PEWTER, 1/8" JOINT WIDTH	
FLOORING						
T-1	CMC	QUARRY	PURITAN GREY #507	6X6	MAPEI #9 GRAY, 1/8" JOINT WIDTH	KERAPOXY GROUT IEG CQ
T-2	CMC	MOTIF GREY	GREY	18X18	MAPEI, #2 PEWTER, 1/8" JOINT WIDTH	
FRP/LAMINATE						
FRP-1	MARLITE	SMOOTH SURFACE	S100 S/2/S WHITE	4' X 9' X .90		COORDINATE ALL TRIM PIECES WITH FRP MFG
L-1	WILSONART	4783K FINISH 7	WHITE TIGRIS			OFFICE SHELVING LAMINATE
L-2	WILSONART	Y0664K-12	MOCHA ASH			SOFTGRAIN FINISH, RR/UTILITY DOORS VERTICAL GRADE PRODUCT CODE #362 IS .028" AND HORIZONTAL GRADE PRODUCT CODE #372 IS .039"
CORNER GUARDS						
CG-1	C.S GROUP	ACROVYN VA SERIES	VA-034N #934 PEARL	3/4" X 3/4"		FOR PAINT MATCH P-1
CG-2	C.S GROUP	ACROVYN VA SERIES	VA-034N #262 DRIFTWOOD	3/4" X 3/4"		FOR PAINT MATCH CR-1 & WC-1
METAL TRANSITION						
MT-1	SCHLUTER	JOLLY	A 100 AT - SATIN NICKEL ANODIZED ALUMINUM	3/8"	N/A	TILE EDGE TRIM DETAIL 17/A6.3
MT-3	SCHLUTER	RONDEC - ALUMINUM		3/8"	N/A	TILE EDGE TRIM DETAIL 15/A6.3
SOLID SURFACE						
SS-1	CORIAN	LAVA ROCK	LAVA ROCK			COUNTERTOPS/24" DIAMETER TABLE TOP
WALL COVERING						
WC-1	WOLF GORDON	'RAMPART' HIGH IMPACT WALL COVERING	FOUNDATION/ PIGMENT (GOH 12172606)		RAILROAD INSTALLATION: THERE SHOULD BE NO SEAMS ALONG WALLS	1 ROLL: 80 L.F.
WALL PAINT						
P-1	SHERWIN WILLIAMS	SW7021	SIMPLE WHITE	N/A	N/A	PAINT FINISH: WALLS: EGGSHELL TRIM/BOH: SEMI-GLOSS (CHAIR RAIL) CEILING: FLAT
P-2	SHERWIN WILLIAMS	TB2603C	PURPLE	N/A	N/A	
P-3	SHERWIN WILLIAMS	SW7076	CYBER SPACE	N/A	N/A	
P-4	SHERWIN WILLIAMS	SW7005	PURE WHITE	N/A	N/A	
WALL TILE						
W-1	CMC	FORM	ICE DECO MIX	8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM ACCENT WALL TILE
W-2	CMC	FORM	ICE	8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM WALL TILE
W-3	CMC	SALVAGEWOOD	WHITEWASH	3X36	MAPEI #01 ALABASTER, 1/8" JOINT WIDTH	RUNNING BOND INSTALLATION OFFSET 25%

FINISH LEGEND — D

NOT USED — A

1. INSTALL FRP ON KITCHEN SIDE OF SERVING COUNTER WALL.
2. GALV. STEEL WALL AND CEILING FINISHES BY WIC / WIF BOX MFR.
3. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE AND FRP.
4. APPROVED PAINT MANUFACTURERS:
   PORTER, BENJAMIN MORE, SHERWIN WILLIAMS, ICI, & PITTSBURGH PAINTS.
5. MATCH SPECIFIED SCHEDULE COLORS EXACTLY.
6. ALL PAINTED GYPSUM BOARD SHALL HAVE A LIGHT ORANGE PEEL TEXTURE.
7. ALL MORTAR SHALL BE MIXED WITH WHITE SAND TO INSURE A COLOR CONSISTENT TO THE ORIGINAL DESIGN INTENT
8. ALL TILE MUST BE ORDERED FROM THE SAME VENDOR, EITHER EUROWEST OR CREATIVE MATERIAL CORP.
9. ALL INTERIOR WALL & CEILING FINISHES TO BE CLASS A & B TO MEET ASTM E 84 MATERIAL TESTS. ALL FLOOR FINISHES MUST COMPLY W/ DOC FF-1 "PILL TEST." SANITARY COVE BASE SHALL BE OF SAME CLASS AS FLOOR FINISH AS DEFINED BY NFPA 253.

FINISH NOTES N.T.S. — B

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FINISH CONTACTS N.T.S. — C

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520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
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TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
FINISH SCHEDULE

A7.2

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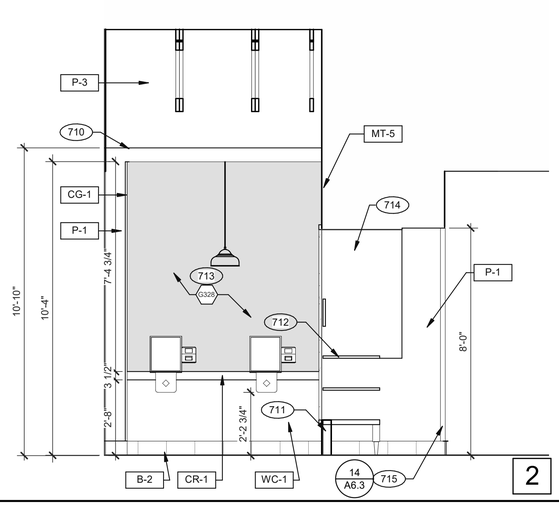
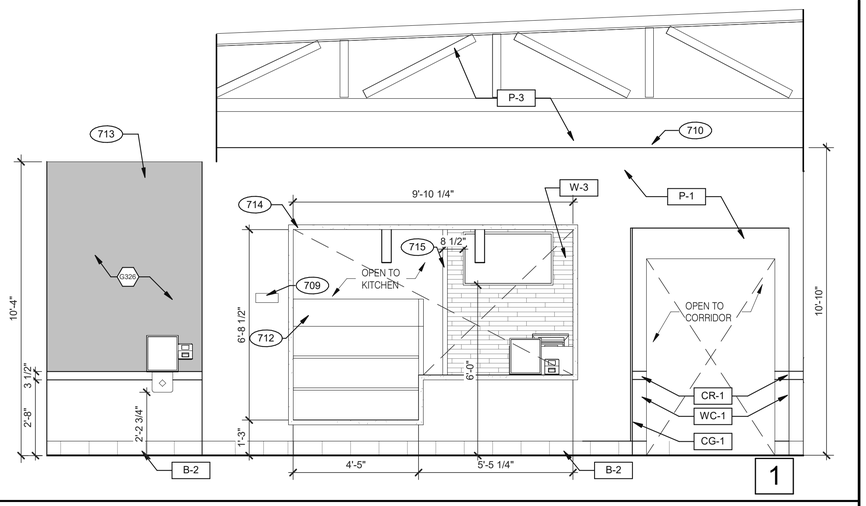
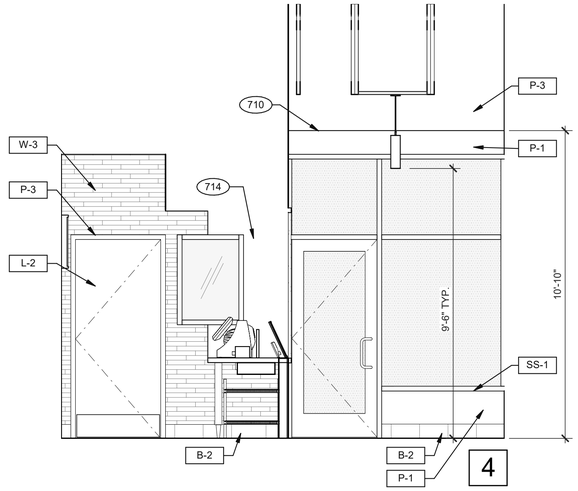
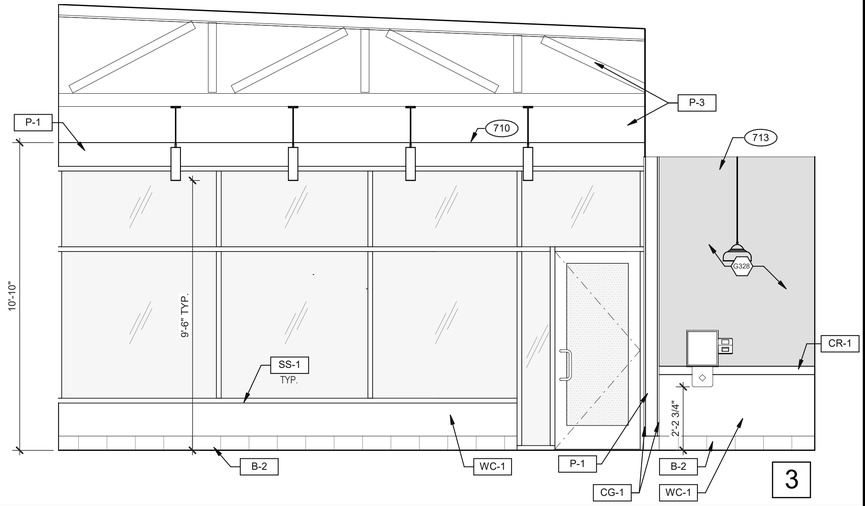




DINING 3/8" = 1'-0"





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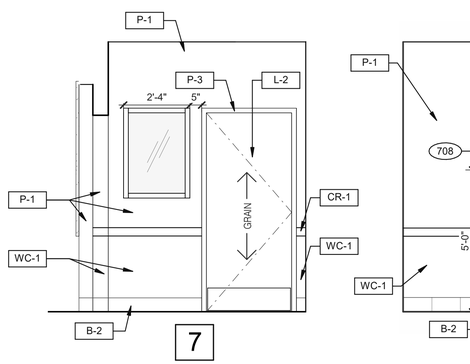

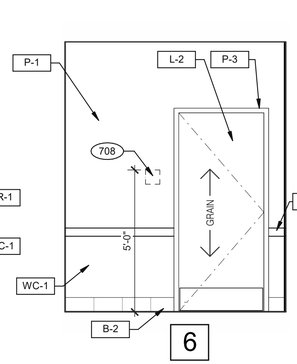

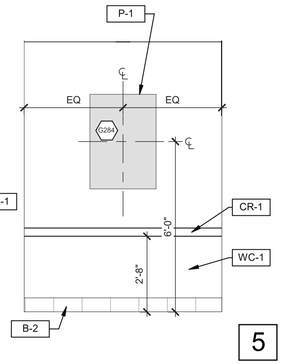

PASSAGE 3/8" = 1'-0"

708 H.C. SIGNAGE. SEE SHEET G4.0.
709 'PLEASE ASK IF YOU NEED ASSISTANCE SIGN'. SMALLWARE PACKAGE.
710 1/2" SCHLUTER REVEAL AT PAINT COLOR CHANGE.
711 VERIFY OPENING DIMENSIONS WITH DECOR VENDOR, PRIOR TO WALL CONSTRUCTION.
712 MOBILE ORDER PICK-UP AND CUSTOMER SERVICE COUNTER BY DECOR VENDOR.
713 WALL MURAL.
714 CORIAN SURROUND BY DECOR VENDOR.
715 SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT.

KEYNOTES | **A**

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TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
INTERIOR ELEVATIONS DINING ROOM
2

A8.0

PLOT DATE: 6/14/2021 7:37:18 AM

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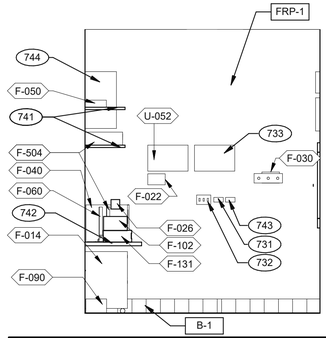
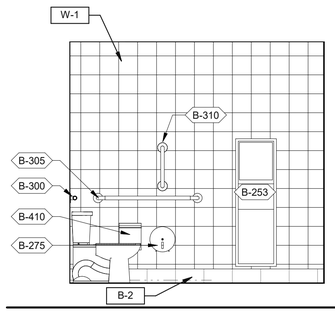
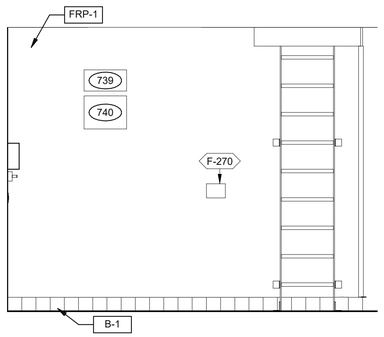


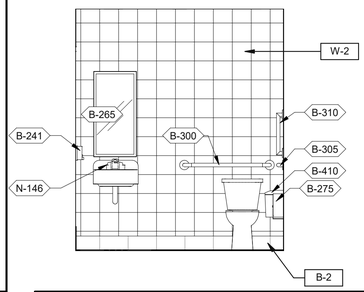
OFFICE 3/8" = 1'-0" **5**



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



OFFICE 3/8" = 1'-0" **6**



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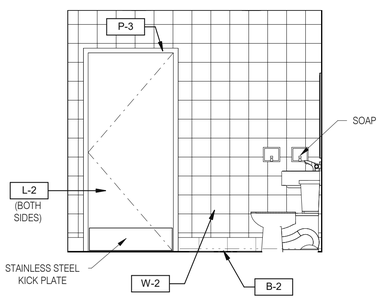
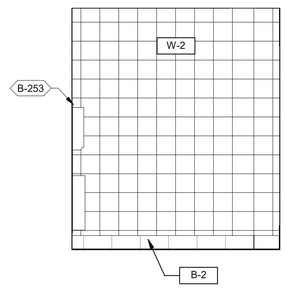
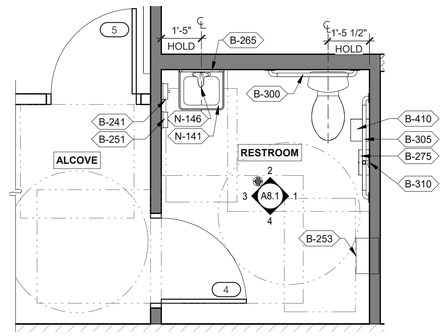


RESTROOM 3/8" = 1'-0" **3**



RESTROOM 3/8" = 1'-0" **4**



A. PROVIDE PROPER 2x BLOCKING AT WALL RECESSED MOUNTED ACCESORIES.

B. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS. REFER TO SHEET ADA1.0

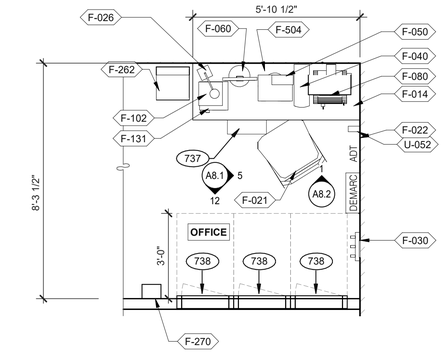
C. REFER TO FLOOR PLAN NOTE FOR BLOCKING AND SUBSTRATE NOTES.

D. REFER TO SHEET ADA1.0 FOR MOUNTING HEIGHTS AND CLEARANCES OF ACCESORIES AND FIXTURE.

ALL DIMENSIONS THIS DRAWING ARE TO FINISH SURFACE.

* ABSOLUTE DIMENSION

ENLARGED RESTROOM / GENERAL NOTES 3/8" = 1'-0" **A**



OFFICE PLAN 3/8" = 1'-0" **B**

731 THERMOSTATS.
732 LIGHTING CONTROL RELAY SWITCHES. SEE DETAIL 3/E3.1.
733 TELEPHONE TERMINAL BOARD.
737 UNDER COUNTER KEYBOARD TRAY.
738 ELECTRIC PANELS.
739 FAN & LIGHT CONTROL BOX; REFER TO SHEET E6.0.
740 EXTERIOR LIGHTING CONTROL PANEL (GREEN GATE).
741 SHELF BY GC - FINISH WITH PLASTIC LAMINATE L-1.
742 COUNTER BY GC - FINISH WITH PLASTIC LAMINATE L-1.
743 DUCT SMOKE DETECTOR RESET SWITCH.
744 TECH-IN-A-BOX (WALL MOUNT RACK ENCLOSURE CABINETS): REFER TO SHEET E3.1. GC TO PROVIDE BLOCKING WHERE REQUIRED.

KEYNOTES **C**

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6

INTERIOR ELEV. ENLARGED RESTROOMS & OFFICE PLAN

A8.1

PLOT DATE: 6/14/2021 7:37:23 AM

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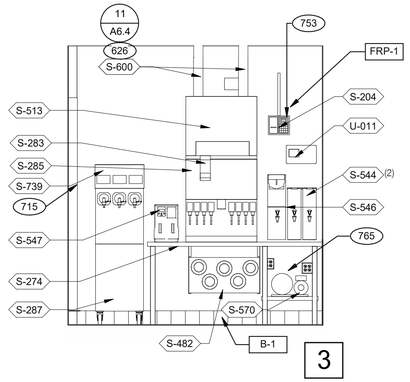

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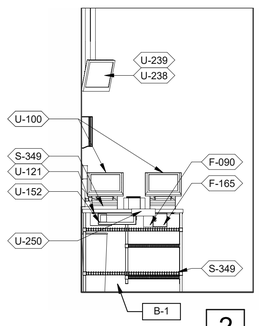

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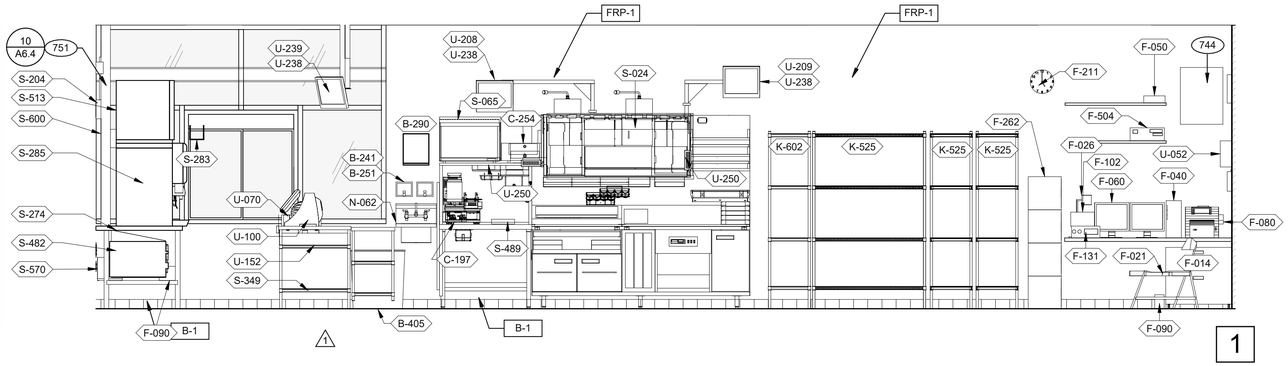


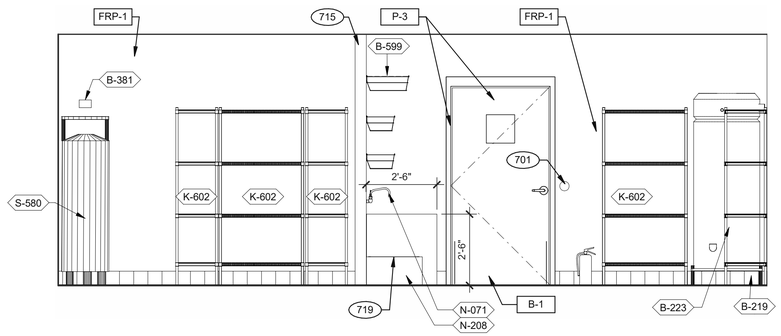
1

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

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

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

TB COOK 3/8" = 1'-0"



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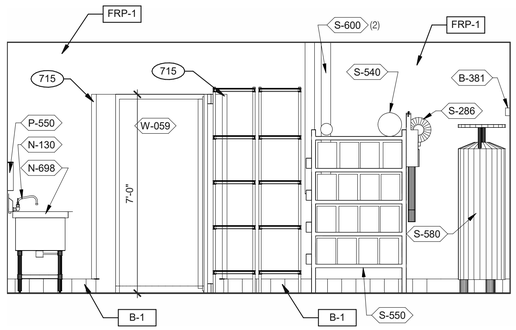

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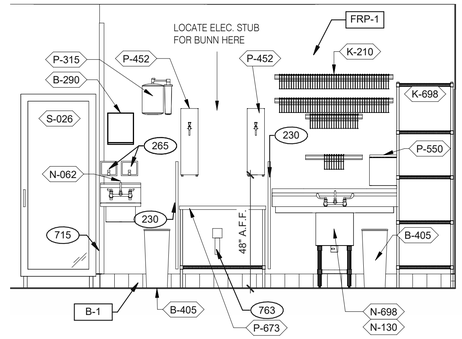

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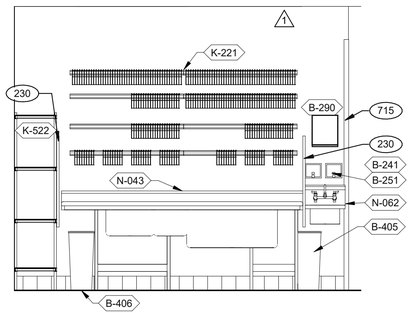
UTILITY 3/8" = 1'-0"

PREP 3/8" = 1'-0"



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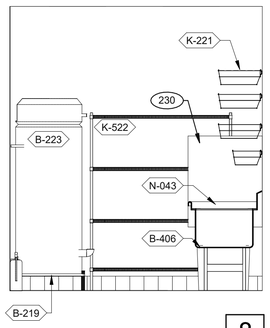

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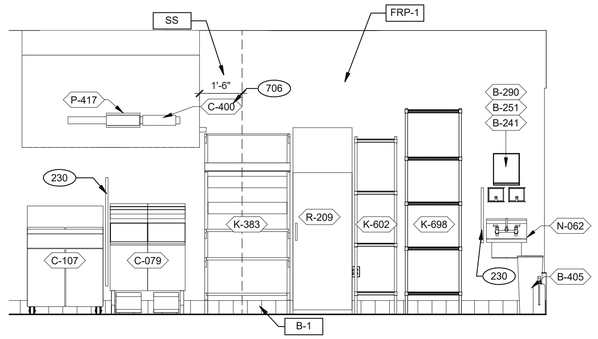

7

230 STAINLESS STEEL SPLASH GUARD. SEE DETAIL 9/A6.3.
265 AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB.
626 STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 11/A6.4.
701 ANSUL PULL STATION.
706 EDGE OF SS PANEL BEHIND HOOD.
715 SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT.
719 STAINLESS STEEL CLOSURE WITH FLASHING AND END CAP.
744 TECH-IN-A-BOX (WALL MOUNT RACK ENCLOSURE CABINETS): REFER TO SHEET E3.1. GC TO PROVIDE BLOCKING WHERE REQUIRED.
751 STAINLESS STEEL CHASE FOR SYRUP LINES & ICE MACHINE REFRIGERANT LINES.
753 DRIVE-THRU TIMER DISPLAY UNIT.
763 FILTER FOR HOT WATER SYSTEM.
765 OPENING FINISHED WITH FRP FOR SYRUP TUBES. SEE DETAIL.

COOK LINE 3/8" = 1'-0"

COOK LINE 3/8" = 1'-0"

KEY NOTES B

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
INTERIOR ELEVATIONS KITCHEN

A8.2

PLOT DATE: 6/14/2021 7:37:49 AM

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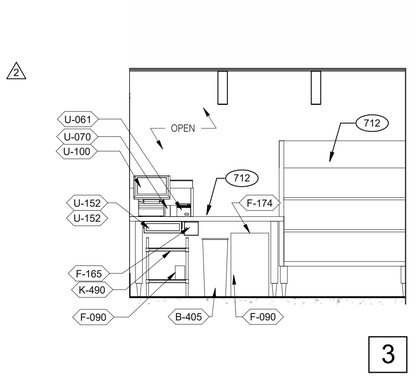
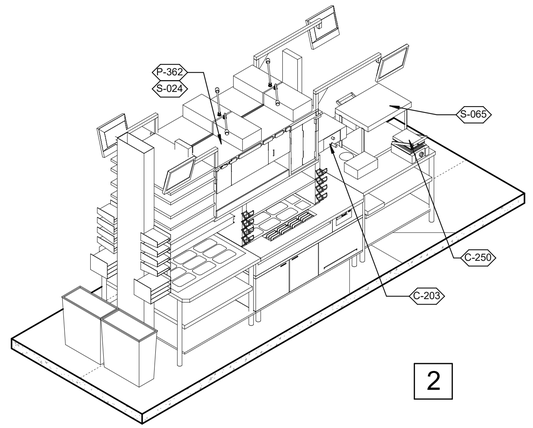


3

SERVING 3/8" = 1'-0"



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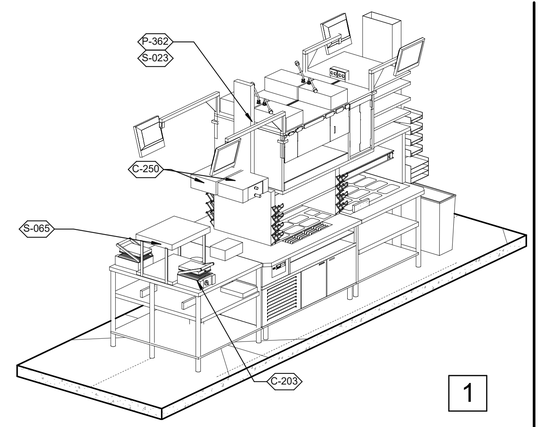
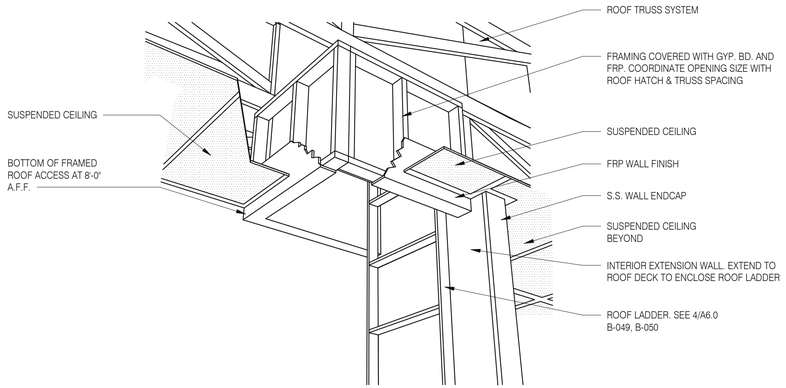
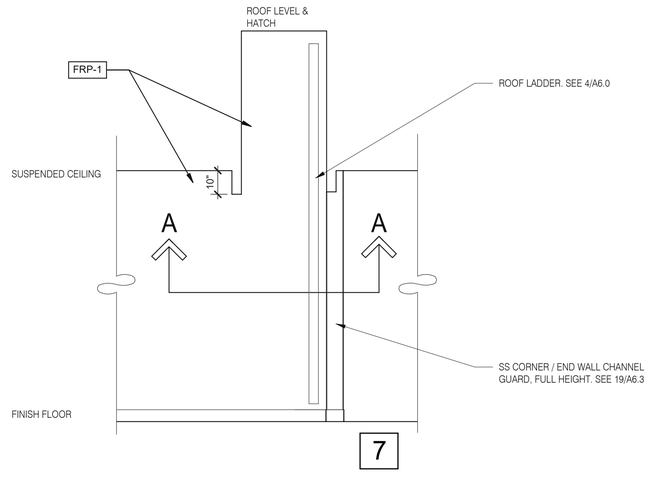


1

GTO DUE LINE 3/8" = 1'-0"

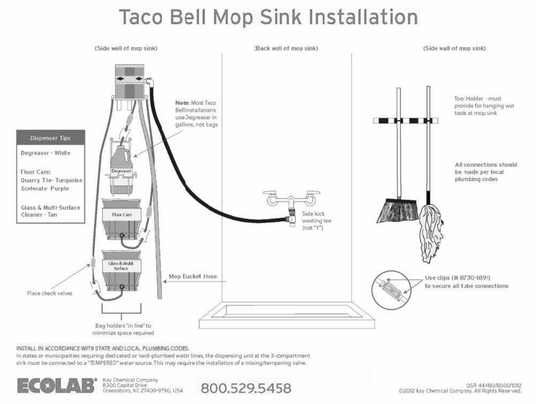


A - ROOF LADDER VIEW



7

ROOF ACCES PASSAGEWAY 3/8" = 1'-0" | **B**



MOP SINK INSTALLATION | **C**

EMPLOYEE / STORAGE 3/8" = 1'-0"

712 MOBILE ORDER PICK-UP AND CUSTOMER SERVICE COUNTER BY DECOR VENDOR.

KEYNOTE | **A**

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
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2	05.24.21	NTP/Engineering Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
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PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
INTERIOR ELEVATIONS KITCHEN

A8.3

PLOT DATE: 6/14/2021 7:37:53 AM

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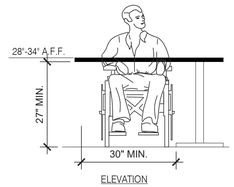
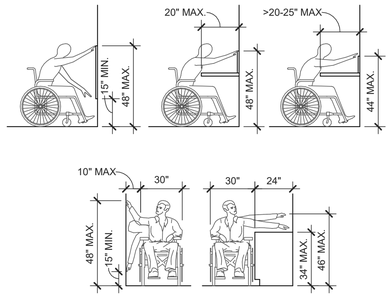
TOTAL SEATS	ACCESSIBLE SEATS
1 - 20 1	1
21 - 40	2
41 - 60	3
61 - 80	4
81 - 100	5
101 - 120	6
121 - 140	7

NUMBER OF ACCESSIBLE SEATS



ELEVATION

SEATING AND TABLES 1/2" = 1'-0" | **18**

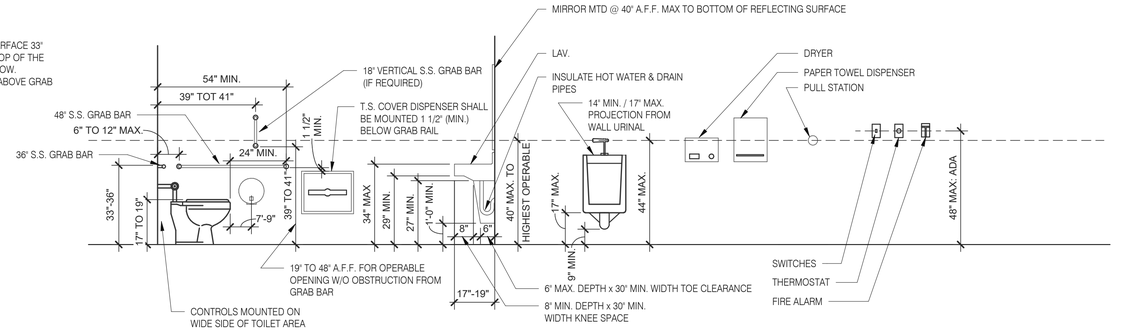


SIDE APROACH

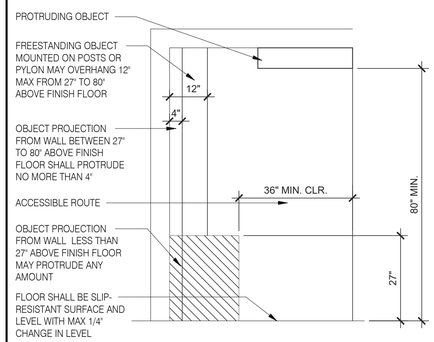
REACH RANGES 1/4" = 1'-0" | **13**

NOTES

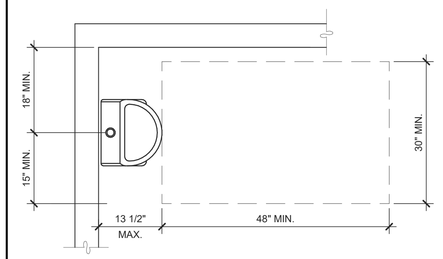
1. TOP OF GRIPPING SURFACE 33" TO 36" MAX TO THE TOP OF THE BAR. SEE NOTES BELOW.
2. 12" MINIMUM CLEAR ABOVE GRAB BAR.



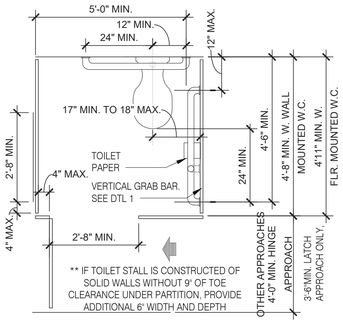
MOUNTING HEIGHTS & CLEARANCES FOR ACCESSIBILITY BY THE DISABLED 3/8" = 1'-0" | **1**



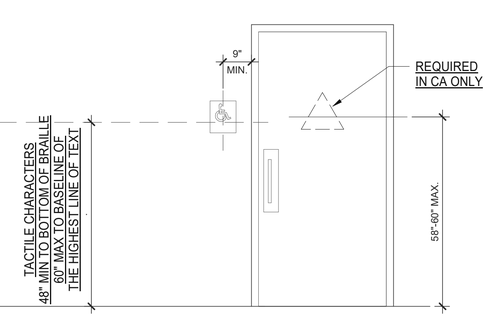
INT. ACCESS. ROUTE CLEARANCES 1/2" = 1'-0" | **10**



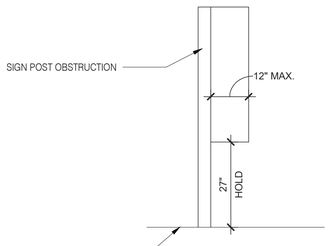
ACCESSIBLE URINAL 3/4" = 1'-0" | **6**



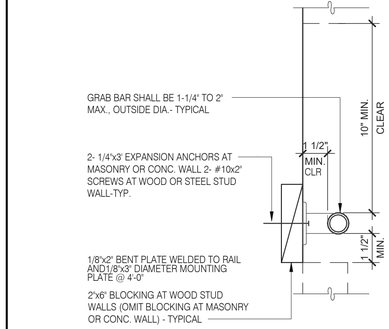
STANDARD TOILET STALL 1/2" = 1'-0" | **2**



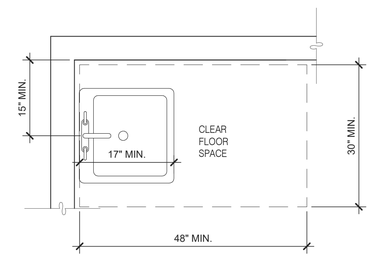
ACCESSIBLE RESTROOM DOORS 1/2" = 1'-0" | **15**



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



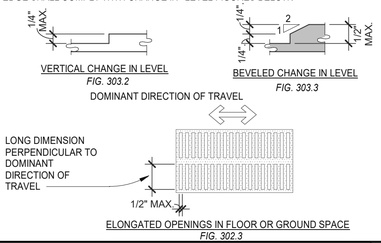
GRAB BAR 3" = 1'-0" | **7**



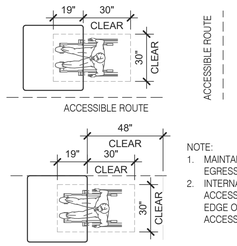
ACCESSIBLE LAVATORY 3/4" = 1'-0" | **3**

NOTES:

1. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
2. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL COMPLY WITH CARPET PILE HEIGHT FIGURE BELOW. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE SHALL COMPLY WITH CHANGE IN LEVEL FIGURES BELOW.



CHANGES IN LEVEL 1/2" = 1'-0" | **12**



NOTE:
1. MAINTAIN 36" MIN. CLEAR AISLE EGRESS PATHS TO EXIT DOORS.
2. INTERNATIONAL SYMBOL OF ACCESSIBILITY REQUIRED ON TOP EDGE OR FRONT OF ALL ACCESSIBLE TABLES.

DINING SEATING CLEARANCES N.T.S. | **8**

1. INDICATED DIMENSIONS, HEIGHTS, DEPTHS, AREAS AND OTHER GRAPHIC INFORMATION ARE PROVIDED AS MINIMUMS THAT MUST BE MAINTAINED. THESE MINIMUMS ARE BASED UPON YUM STANDARDS AND MAY EXCEED ADA REQUIREMENTS.

   THE DETAILS SHOWN ARE CONCEPTUAL ONLY AND INTENDED TO SHOW ABSOLUTE MINIMUMS AND SHALL BE COORDINATED WITH THE OTHER CONSTRUCTION DOCUMENTS ASSOCIATED WITH THIS PROJECT.

2. 60" TURNING SPACE
   - PERMITTED OVERLAP LIMITED TO 1 ARM OF T-SHAPED SPACE
   - CAN OVERLAP FIXTURE & DOOR CLEARANCE
   - DOOR CAN SWING INTO TURNING SPACE A MAXIMUM OF 12"

3. RESTROOM, IN GENERAL, DOOR SWING MUST BE OUTSIDE OF THE FIXTURE CLEAR FLOOR SPACE HOWEVER A DOOR CAN SWING INTO FIXTURE CLEAR FLOOR SPACE IF WHEELCHAIR SPACE 30"X48" IS PROVIDED BEYOND THE DOOR SWING.

4. TOILET ROOM MUST ALLOW FOR SIDE TRANSFER - 42" BETWEEN FIXTURES.

5. ADAPT TEAM TO VERIFY LOCAL CODE REQUIREMENTS.

GENERAL NOTES | **4**

GPD GROUP
Professional Corporation
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AKRON, OH 44311
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SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
ACCESSIBILITY REQUIREMENTS

ADA1.0

PLOT DATE: 6/14/2021 7:37:57 AM

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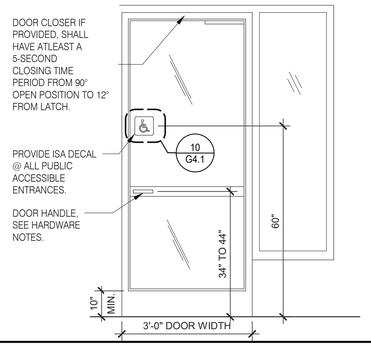
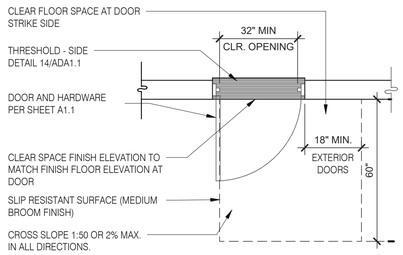
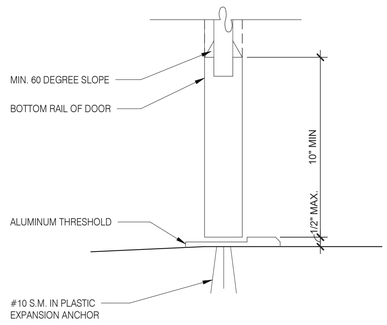


TYP. ENTRANCE / EXIT DOOR N.T.S. **17**



NOTE:
1. EXTERIOR DOOR PRESSURE CANNOT EXCEED 8.5 LBS (GC TO DOOR PRESSURE TO MINIMUM ALLOWABLE BY AHJ).
2. INTERIOR DOOR PRESSURE CANNOT EXCEED 5 LBS.
3. 60% OF PUBLIC ENTRANCES MUST BE ACCESSIBLE (100% IN CA)

EXTERIOR DOOR REQUIREMENTS 3/8" = 1'-0" **13**



BOTTOM RAIL (EXTERIOR DOOR) 3" = 1'-0" **14**

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TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
ACCESSIBILITY REQUIREMENTS

ADA1.1

PLOT DATE: 6/14/2021 7:37:59 AM

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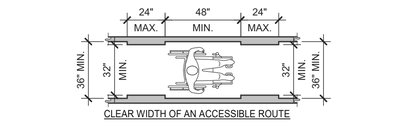
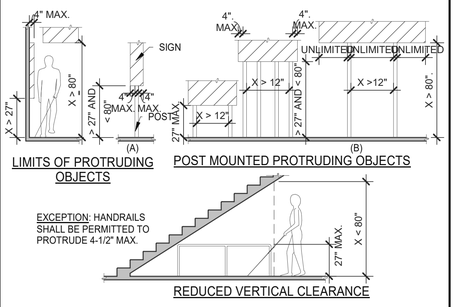
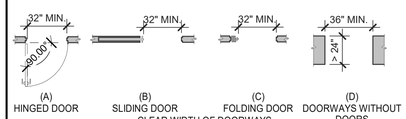


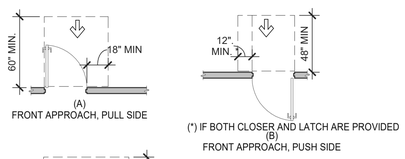
CLEAR WIDTH 1/4" = 1'-0" | **17**

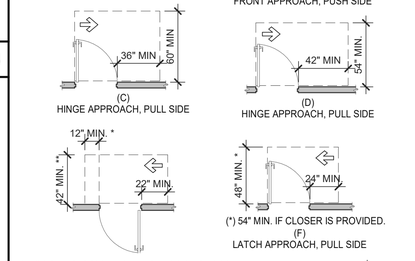


PROTRUDING OBJECTS 3/16" = 1'-0" | **13**

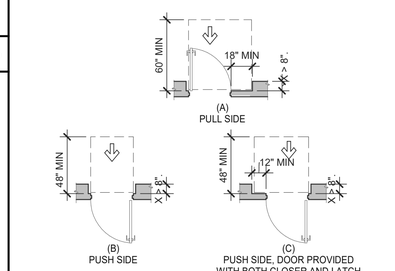
NOTES:
1. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL AND SHALL HAVE A SLOPE NOT STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED AT DOOR LANDINGS.
2. THRESHOLDS, IF PROVIDED AT DOORWAYS SHALL BE 1/2" HIGH MAX. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL.
3. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OR THE WRIST.
4. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS (22.5 N) MAX.
5. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MIN. AND 48" MAX. ABOVE THE FINISH FLOOR OR GROUND.
6. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
7. DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90° THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12° FROM THE LATCH IS 5 SECONDS MIN.
8. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70° THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MIN.
9. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
9.1. INTERIOR HINGED DOORS AND GATES: 5 LBS (22.5 N) MAX.
9.2. SLIDING OR FOLDING DOORS: 5 LBS (22.5 N) MAX.
9.3. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.7N).
9.4. EXTERIOR HINGED DOORS: 5 LBS (22.5 N) MAX.
10. SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACE SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
11. WHERE AUTOMATIC AND POWER-ASSISTED DOORS AND GATES WITHOUT STANDBY POWER ARE PART OF A MEANS OF EGRESS THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32" MIN. WHEN OPERATED IN EMERGENCY MODE.





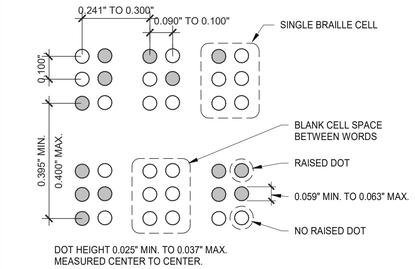


MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES



MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES

DOORS, DOORWAYS & GATES 3/16" = 1'-0" | **12**

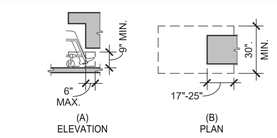


BRAILLE MEASUREMENT 1/4" = 1'-0" | **14**

PARKING SPACES

TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2 PERCENT OF TOTAL
1001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000

PARKING SPACES 6" = 1'-0" | **15**



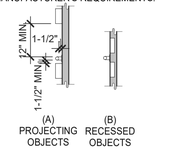
KNEE AND TOE CLEARANCE 1/4" = 1'-0" | **16**

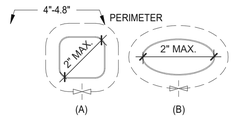
CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.

SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

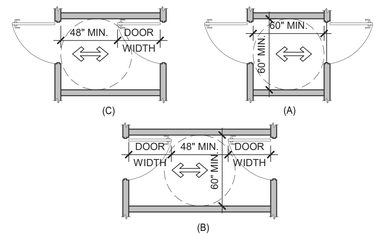
POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.

BACKING. PROVIDE MIN. 6 INCHES x 16 GA CONTINUOUS SHEET METAL BACKING ATTACHED TO MIN. 3 STUD BAYS WITH #10 FLAT HEAD SHEET METAL SCREWS. INSTALL GRAB BARS PER MANUFACTURER'S REQUIREMENTS.

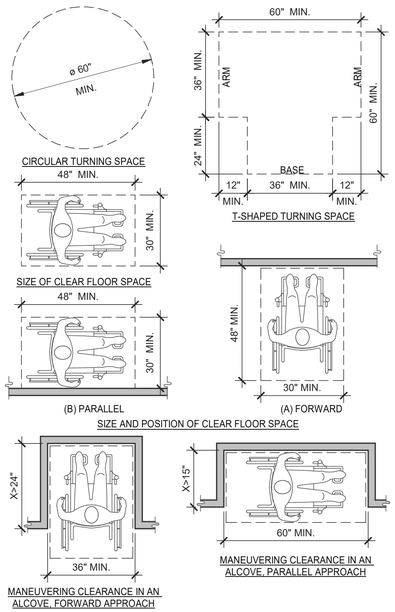




GRAB BARS 3/16" = 1'-0" | **5**



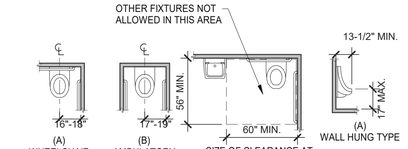
DOORS, DOORWAYS & GATES 3/16" = 1'-0" | **6**



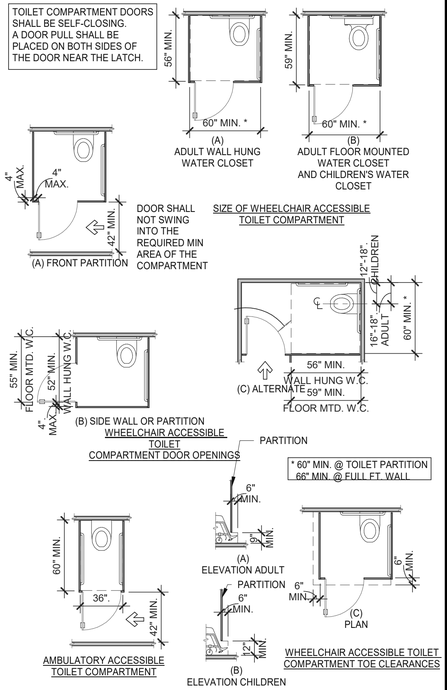
CLEAR FLOOR OR GROUND SPACE 3/8" = 1'-0" | **8**

ACCESSIBILITY NOTES

1. "THE ACCESSIBILITY GUIDELINES AND CODES" MENTIONED BELOW REFER TO ALL APPLICABLE LOCAL/STATE BUILDING CODES REFERENCED ON THE PROJECT DATA SHEET OF THIS SET IN ADDITION TO THE FEDERAL REQUIREMENTS OF THE ADA (THE AMERICANS WITH DISABILITIES ACT).
2. DETAILS ON THIS SHEET ARE FOR REFERENCE ONLY, REFER TO THE ACCESSIBILITY GUIDELINES AND CODES FOR ALL ACCESSIBILITY REQUIREMENTS.
3. THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE ACCESSIBILITY GUIDELINES AND CODES.
4. ANY DISCREPANCY CONTAINED HEREIN DOES NOT RELIEVE THE GENERAL CONTRACTOR OR OWNER FROM COMPLYING WITH THE ACCESSIBILITY GUIDELINES AND CODES.
5. ADAPT TEAM TO VERIFY LOCAL CODE REQUIREMENTS.



TOILET COMPARTMENT DOORS SHALL BE SELF-CLOSING. A DOOR PULL SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.



WC AND TOILET COMPARTMENTS 3/16" = 1'-0" | **4**

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL
1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
ACCESSIBILITY REQUIREMENTS

ADA1.2

PLOT DATE: 6/14/2021 7:38:04 AM

C:\Users\rsmith\Documents\TB_Lincoln Park MI_ARCH_Rusty1.rvt

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

GENERAL:

1. LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
2. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFF-SETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT.
3. PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

REFER TO SCOPE OF WORK IN DIV 23 SPECIFICATION FOR HVAC FOR TEST & BALANCE & COMMISSIONING REQUIREMENTS WHICH WILL BE SUPPLIED BY THE OWNER AND COORDINATED BY THE GC.

HVAC:

1. INSTALLATION SHALL CONFORM TO THE MECHANICAL AND ENERGY CODES FOR NEW NONRESIDENTIAL BUILDINGS.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
3. OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
4. E.C. SHALL PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS. REFER TO SHEETS E3.0 - ELECTRICAL POWER PLAN, SHEET E3.2-ELECTRICAL POWER ROOF PLAN, E6.0 - ELECTRICAL DETAILS - TBCCB, E6.1 - ELECTRICAL DETAILS - TBCCB, E7.0 - ELECTRICAL DETAILS, E7.1 - ELECTRICAL DETAILS.
5. 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 LIMINTED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. REFER TO ELECTRICIAL DRAWINGS SHEETS E6.1 AND E7.0 FOR ADDITIONAL LOW VOLTAGE WIRING AND CONENCTIONS.
6. PROVIDE ALL REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF AND CHARGE LINES PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
7. HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
8. ALL SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED. ALL RETURN AND SUPPLY DUCT RISERS SHALL BE LINED (NOT WRAPPED).
9. ALL SUPPLY / RETURN DUCTS SHALL BE RIGID (EXCEPT AS NOTED/INDICATED AS RIGID ON THE DUCT PLAN), WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY BE FLEX. ALL EXHAUST DUCT MUST BE RIGID.
10. ROOFTOP UNITS SHALL BE ORDERED WITH FACTORY SUPPLIED AND INSTALLED RETURN SMOKE DETECTORS. WHEN REQUIRED BY MANUFACTURER, SAMPLE TUBE SHALL BE LOCATED PER FIELD INSTALLATION INSTRUCTIONS. DETECTOR SHALL DEACTIVATE THE ROOFTOP UNIT UPON SENSING SMOKE. INCLUDE SUPPLY SMOKE DETECTOR ONLY IF REQUIRED BY LOCAL CODE.
11. 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. PROVIDE TRANSITION AT TERMINATION OF TYPE 1 EXHAUST DUCT TO THE TOP OF THE FAN BASE. TRANSITION MUST BE CENTERED AND HAVE MINIMUM OF 1" SLOPE.
12. ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT BRANCH FEEDER. DAMPER SHALL BE MINIMUM 26 GAUGE LOCATED IN A DEDICATED SLEEVE WITH AN AXLE AND LOCKING QUADRANT. NO INSTALLATION OF DAMPERS IN STARTER COLLARS. ALL DAMPER HANDLES SHALL HAVE A FLAG ON THE HANDLE FOR LOCATION PURPOSES.
13. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
14. SEE M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.
15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY HVAC TEST & BALANCE REQUIRED FOR LOCAL AUTHORITY HAVING JURISDICTION, CERTIFICATE OF OCCUPANCY, BUILDING FINAL, ETC.
16. A FINAL HVAC SYSTEM TESTING AND BALANCING AND COMMISSIONING SHALL BE PERFORMED BY INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER AND SCHEDULED BY GENERAL CONTRACTOR.

    CONTRACTOR SHALL CERTIFY COMPLETION OF INSTALLATION, START UP AND PRE-COMMISSIONING CHECKLIST SHOWN ON SHEET SW2.0 BEFORE SCHEDULING OWNER'S INDEPENDENT AGENT. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, COMPLETED, STARTED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST FOR SAME SHALL BE ALSO INCURRED BY THE GENERAL CONTRACTOR.

    INDEPENDENT AGENTS:
    Air Care Experts
    TAB@ACE-IAQ.COM
    949 770-2222
17. WIRE ALL SMOKE DETECTORS IN RTU TO ITS RESPECTIVE REMOTE ANNUCIATOR/RESET SWITCH. INSTALL "SYSTEM SENSOR" MODEL RTS2AOS. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MANUFACTURER SPECIFICATIONS.
18. REFERENCE RTU TO TBCCB CONNECTIONS PER E6.1.
19. RTU MANUFACTURER FURNISHED THERMOSTATS SHALL BE NON-PROPRIETARY.
20. MECHANICAL CONTRACTOR RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
21. REFERENCE RTU TO TBANS CONNECTIONS PER E7.1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
22. LOW VOLTAGE CONNECTIONS TO SMOKE DETECTORS, REMOTE ENNUCIATORS AND RESETS, HUMIDISTATS, THERMOSTATS, REMOTE SENSORS, TBCCB AND TBANS REQUIRE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0 CERTIFICATE.

MECHANICAL NOTES | 6

SYMBOL & ABBREV.		DESCRIPTION
	SA/SUP	SUPPLY AIR (RISE/DROP)
	RA/RET	RETURN AIR DUCT (RISE/DROP)
	EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
	CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
	RR/RG	RETURN REGISTER/GRILLE
	ER/EG	EXHAUST REGISTER/GRILLE
		RECTANGULAR DUCT ELBOW WITH TURNING VANES
	FC	FLEXIBLE CONNECTION
	MCD	MANUAL VOLUME DAMPER
	FD	FIRE DAMPER
	(L)	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
		SINGLE LINING DUCT BRANCH TAKEOFF
		DUCT TRANSITION (RECTANGULAR TO ROUND)
	FLEX	FLEXIBLE DUCT (14'-0" MAXIMUM)
T	T-STAT	PROGRAMMABLE THERMOSTAT, PROVIDED WITH HVAC PACKAGE
TS		THERMOSTAT SENSOR (REMOTE), PROVIDED WITH HVAC PACKAGE
H		HUMIDITY SENSOR (REMOTE), PROVIDED WITH HVAC PACKAGE
D	D	CONDENSATE DRAIN
Ø	DIA.	DIAMETER
DL	DL	DOOR LOUVER
UC	UC	DOOR UNDERCUT (3/4" MINIMUM)
X-X 0000		MECHANICAL EQUIPMENT DESIGNATION
R	RESET	SMOKE DETECTOR RESET

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

MECHANICAL SYMBOLS | 7

MARK	AREA SERVED	FAN DATA: SUPPLY CFM	MIN. O.A. CFM	ESP	HP	RPM	COOLING CAPACITY: NOMINAL TONS	MIN CAP (MBH) TOT/SEN	MIN EER	HEATING CAPACITY: INPUT STAGE (MBH)	OUTPUT (MBH)	HEATING STAGES	AFUE %	UNIT ELECT DATA: VOLTS/ PH	MCA (A)	MOCP (A)	WEIGHT (LBS.)	MODEL	NOTES 1
RTU-1	KITCHEN/ DINING	6000	1200	1.0	5	850	15	182.1/138.4	12.7	360	288	2	80	208/3	91	100	2520	LGH180U4M	1,2,3,4,5,6,7,8,9,12,13,14,15,16,17

SCHEDULE NOTES:
1. LISTED CAPACITY IS THE UNIT'S NET COOLING CAPACITY AT THE FOLLOWING CONDITIONS: 78.8°F DB / 65.8°F WB EAT AND 105°F AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER 91°F & 74°F WB, WINTER -6°F. THERMOSTAT SHALL BE PROGRAMMED FOR 73°F IN SUMMER AND 68°F IN WINTER WITH 2°F ADJ. FUNCTION UP OR DOWN. THE UNOCCUPIED TEMP SHALL BE SET TO THE STORE SCHEDULE AND 60°F MINIMUM. SPECIFIED UNITS INCLUDE MINIMUM 2 STAGE COOLING, LOW AMBIENT CONTROL TO 0 DEG. F AND THROUGH THE ROOF CURB CURB GAS AND POWER CONNECTIONS..
2. HINGED ACCESS DOORS (FACTORY PROVIDED).
3. 2 INCH MERV 8 FILTER (FACTORY PROVIDED).
4. SINGLE ENTHALPY ECONOMIZER/W HOOD (FACTORY PROVIDED).
5. HIGH PERF ECONOMIZER (FACTORY PROVIDED).
6. STANDARD STATIC POWER RELIEF/W HOOD (FACTORY PROVIDED).
7. CIRCUIT BREAKER (FACTORY PROVIDED).
8. RETURN AIR SMOKE DETECTOR (FACTORY PROVIDED).
9. STANDARD CAP. (FACTORY PROVIDED).
10. PHASE MONITOR (FACTORY PROVIDED).
11. MULTI-STAGE AIR VOLUME (FACTORY PROVIDED).
12. CONSTANT AIR VOLUME (FACTORY PROVIDED).
13. 14" ROOF CURB (FIELD INSTALLED).
14. COMFORT SENSE 7500 THERMOSTAT (FIELD INSTALLED).
15. GFCI (FIELD WIRED, FACTORY INSTALLED).
16. HOT GAS REHEAT DEHUMIDIFICATION OPTION TO BE INCLUDED. HUMIDITY SENSOR TO BE MOUNTED IN THE RETURN AIR AT THE UNIT.
17. INTERLOCK WITH EF-1 TO ENSURE RTU-1 IS IN OPERATION WHILE EF-1 IS IN OPERATION.

HVAC UNIT SCHEDULE | 1

Mark	FAN DATA: CFM	ESP	RPM	HP	VOLTS/PH	DRIVE TYPE	MANUFACTURER	MODEL	NOTES
EF-1	2 1050	0.9	1344	1/2	120/1	DIRECT	STRATOVENT	#SVDU50HFA	1,3,5,6,7,8,10
EF-2	75	0.3	1300	1/60	120/1	DIRECT	GREENHECK	G-060-DGE117XQD	2,4,7,8,9

REMARKS:
1. UL 762 LISTED (GREASE)
2. PROVIDED WITH DAMPER TRAY
3. FLAT ROOF CURB, 19.5" X 19.5" X 26"H, VENTED
4. FLAT ROOF CURB, 17" X 17" X 14"H
5. GREASE CUP WITH DRAIN
6. FACTORY ATTACHED HINGES
7. WEATHERPROOF PRE-WIRED DISCONNECT SWITCH
8. PROVIDE PRE-WIRED SOLID STATE SPEED CONTROLLER
9. GRAVITY BACKDRAFT DAMPER
10. PROVIDED BY OWNER WITH HOOD PACKAGE

SUPPLY AND EXHAUST FAN SCHEDULE | 2

MARK	QUANTITY	NECK SIZE	FACE SIZE OR GRID SIZE	(NO.) & AIR PATTERN	TYPE	MAX FLOW (CFM)	MOUNTING	MATERIAL	MANUFACTURER	MODEL NUMBER	REMARKS
E-2	1	10"X10"	12x12	-	EXHAUST	300	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5-FB-TB/50F-NT	FRN SQR TO RND ADAPTER
R-1	2	22x22	24x24	-	RETURN	2000	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	RHE-6/50FF	HINGED/FULLY REMOVABLE FACE
S-1	10	15"X15"	24x24	4W	SUPPLY	600	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	5000-6 / TDC-AA-NT	FRN SQR TO RND ADAPTER
S-2	1	9"X9"	14x14	4W	SUPPLY	250	SURFACE	ALUMINUM	METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQR TO RND ADAPTER
S-3	1	SEE PLANS	24x24	HORIZ	SUPPLY	600	SURFACE	ALUMINUM	METAL-AIRE / TITUS	5700A-1 AL / TMSA-AA	ALUMINUM SUPPLY GRILLE
S-4	2	12"ø	24x24	4W	SUPPLY	650	DUCT	ALUMINUM	METAL-AIRE / TITUS	R5750 / OMNI-AA	DUCT-MOUNTED SUSPENDED

2

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

AIR DEVICE SCHEDULE | 3

FOR COMPLETE INFORMATION AND PRICING ON THE TRANE HVAC PACKAGE CONTACT MARTY CUSICK, THE YUM! BRANDS ACCOUNT EXECUTIVE AT TRANE NATIONAL ACCOUNTS.
TOLL-FREE PHONE: (866) YUM-HVAC or (866) 986-4822
FAX: (502) 499-7870
EMAIL: mjcusick@trane.com

TACO BELL HAS A NATIONAL HVAC AGREEMENT WITH LENNOX NATIONAL ACCOUNTS. FOR QUOTES & TECHNICAL SPECIFICATIONS CONTACT BY EMAIL AT YUM!@LENNOXIND.COM OR 800-367-6285 ACCOUNT MANAGER BRAD SMITH.

TACO BELL HAS A NATIONAL HVAC AGREEMENT WITH YORK NATIONAL ACCOUNTS. FOR QUOTES & TECHNICAL SPECIFICATIONS, PLEASE CONTACT MATT MCNAIR, YORK PRODUCT APPLICATION ENGINEER AT 800-481-9738, FAX 866-406-9675. FOR ALL OTHER INQUIRIES, PLEASE CONTACT NATALIE DEROUSSE, YORK NATIONAL ACCOUNT SALES MANAGER AT 405-419-6416.

TRANE, LENNOX AND YORK HAVE AGREED TO SUPPLY AN HVAC PACKAGE CONSISTING OF THE ROOF-TOP UNITS, CURBS, THERMOSTATS, TEMPERATURE SENSORS (REMOTE), AND HUMIDITY SENSORS (REMOTE). RTUS AS SPECIFIED INCLUDE AN UNPOWERED CONVENIENCE OUTLET (SEE ELECTRICAL) AND AN HACR CIRCUIT BREAKER WHICH PROVIDES UNIT DISCONNECT.

FOR HVAC TEST AND BALANCE, G.C. TO SCHEDULE WITH TACO BELL'S PREFERRED VENDOR PER SCOPE OF WORK WORKSHEETS. BE PREPARED AT TIME OF ORDER OR QUOTE REQUEST TO PROVIDE ALL PROJECT DETAILS REGARDING SPECIFICATIONS AND QUANTITIES AS SITE SPECIFIC DESIGN MAY NOT MATCH NATIONAL DESIGN.

SEE THE SCOPE OF WORK SHEETS FOR ADDITIONAL INFORMATION.

HVAC EQUIPMENT | 5

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	-1050	-1050
EF-2	--	--	--	-75	-75
RTU-1	1200	4800	6000	--	+1200
TOTAL	1200	4800	6000	-1125	+75

NOTES:
- THE OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 20% FOR RTU-1.
- ADJUST OUTSIDE AIR INTAKES TO MAINTAIN VALUES AT ALL EVAPORATOR FAN SPEEDS.

AIR BALANCE SCHEDULE CFM | 4

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
2	05.24.21	Dining Room Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	QF
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
MECHANICAL SCHEDULES AND NOTES

M1.0

PLOT DATE: 6/14/2021 8:39:34 AM

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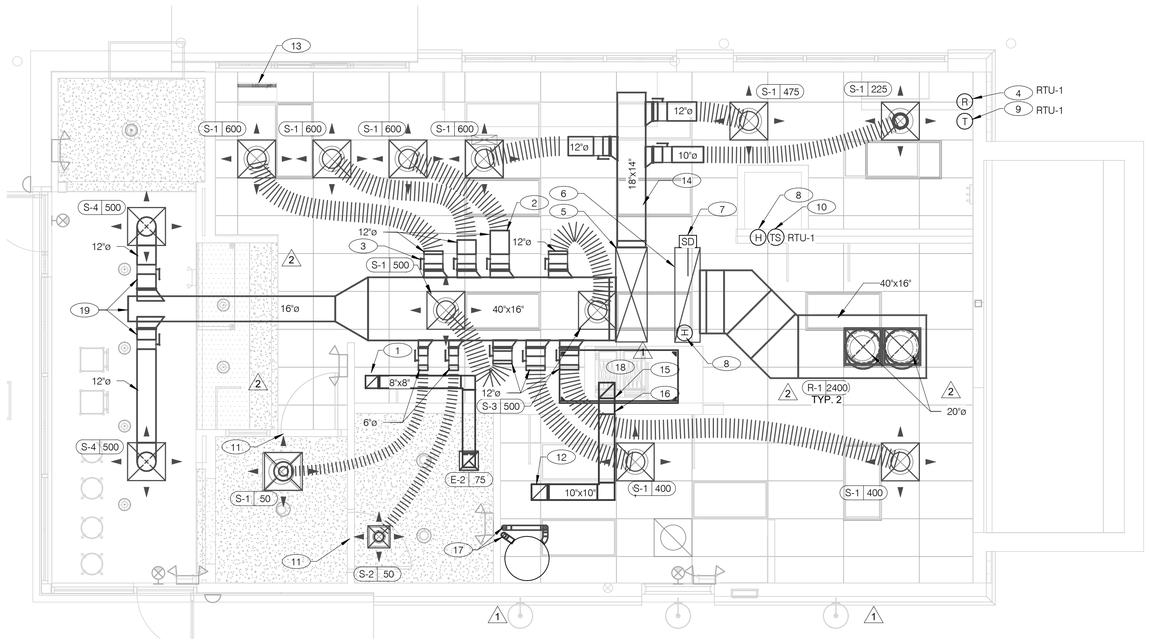

COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF THE HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.

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

1. DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS.
2. THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE AND REMOTE TEMPERATURE SENSOR (PROVIDED WITH RTU PACKAGE)
3. HUMIDITY SENSOR APPLICATION IS VARIABLE PER SITE SPECIFIC CONDITIONS. REFER TO HVAC UNIT SCHEDULE FOR APPLICATION CONDITIONS.
4. COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND STRUCTURAL.

GENERAL NOTES - MECHANICAL NTS C

(1) 8"x8" 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) OPPOSED BLADE DAMPER PROVIDED WITH GRILLE. PROVIDE BACKDRAFT DAMPER AND INSTALL IN BRANCH DUCTWORK IN ACCESSIBLE LOCATION.

(4) 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.

(5) 60"x20" SUPPLY AIR DUCT UP. CONNECT TO SUPPLY AIR PLENUM AT ROOFTOP UNIT RTU-1.

(6) 60"x16" RETURN AIR DUCT UP. CONNECT TO RETURN AIR PLENUM AT ROOFTOP UNIT RTU-1.

(7) ROOFTOP UNIT PROVIDED SMOKE DETECTOR MOUNTED IN ROOFTOP UNIT.

(8) HUMIDITY SENSOR (REMOTE) WHEN REQUIRED FOR HOT GAS REHEAT RTU OPTION. HUMIDITY SENSOR LOCATION SHALL BE PLACED IN RETURN AIR DUCTWORK. RUN 24 VAC POWER AND SIGNAL CONDUCTORS IN TWO (2) SEPARATE, TWO (2) CONDUCTOR CABLES, 18 AWG. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS. 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. RUN 24 VAC POWER AND SIGNAL CONDUCTORS IN TWO (2) SEPARATE, TWO (2) CONDUCTOR CABLES, 18 AWG.

(10) MOUNT THERMOSTAT REMOTE SENSOR AT 60" ABOVE FINISHED FLOOR. CONNECT TO THERMOSTAT LOCATION WITH 18 AWG 2 CONDUCTOR CABLE PER MANUFACTURER INSTALLATION INSTRUCTIONS. VERIFY THAT THE TEMPERATURE SENSOR IN THE DINING AREA IS NOT LOCATED ON A TILE WALL.

(11) UNDERCUT DOOR MINIMUM 3/4" FOR MAKE-UP AIR.

(12) 10"x10" EXHAUST AIR UP TO EF-1.

(13) 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.

(14) RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE UNDER ROOF JOISTS.

(15) 10"X10" EXHAUST AIR DUCT DOWN AND TRANSITION TO FIELD CUT EXHAUST CONNECTION AT HOOD.

(16) EXHAUST DUCT SHALL RUN BETWEEN ROOF JOISTS TO CONNECT TO ROOF EXHAUST FAN EF-1. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAIL 15 ON SHEET M4.0 FOR FIRE PROTECTION OF DUCT WORK. SEE DETAIL 18 ON SHEET M4.0 FOR EXHAUST DUCT TRANSITION.

(17) FURNISH AND INSTALL 3" PVC WATER HEATER INTAKE AND FLUE VENT TERMINATION ON ROOF. COORDINATE WORK WITH ALL TRADES.

(1) (18) HOOD SHALL BE LABELED WITH MINIMUM EXHAUST FLOW RATE IN CFM PER LINEAR FOOT. REFER TO DETAIL 1 ON SHEET M3.0 FOR VALUE.

(2) (19) INSULATED SPIRAL DUCTWORK.

KEYNOTES - DUCT AND DIFFUSER NTS B

	DATE	REMARKS
1	04.15.21	Plan Review Comments
2	05.24.21	Dining Room Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: QF
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
DUCT AND DIFFUSER PLAN

M2.0

PLOT DATE: 6/14/2021 8:39:35 AM

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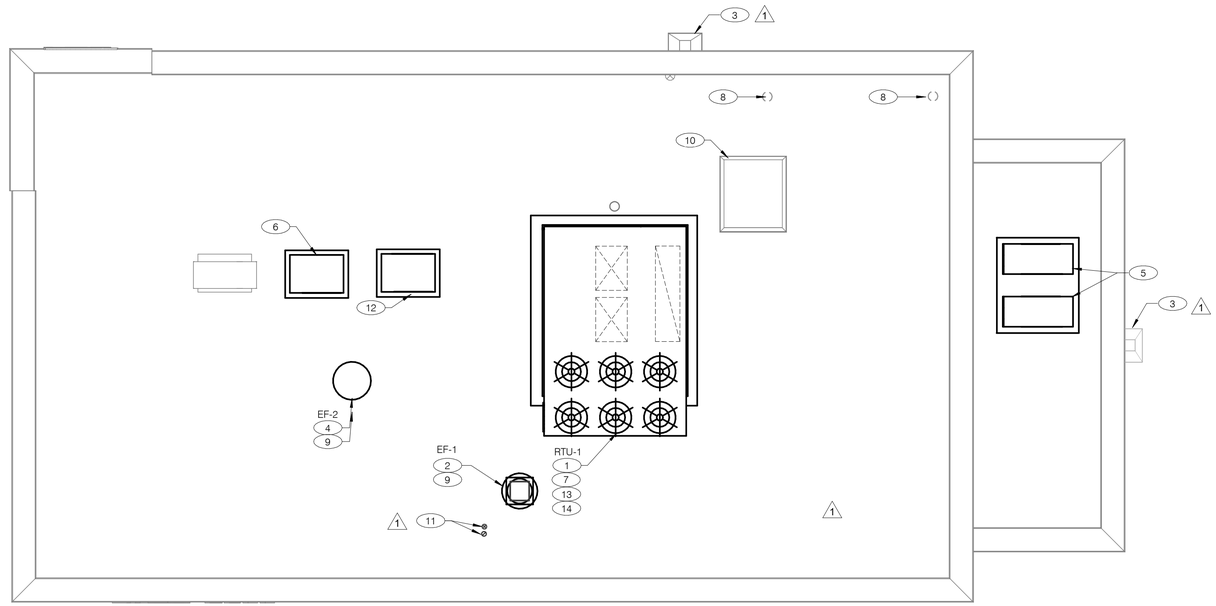

COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF THE HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.

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

STORM DRAIN CALCULATIONS NTS C

1

ROOF SERVED	AREA (FT^2)	RAINFALL RATE (IN/HR)	FLOW RATE (FT^3/MIN)	FLOW RATE (GPM)	MIN. DOWNSPOUT SIZE
UPPER ROOF	1290	2.6	4.66	34.85	2.5"
LOWER ROOF	132	2.6	0.48	3.57	2.5"

NOTES:
1. FLOW RATE=(AREA)*(RAINFALL RATE)
2. UNIT CONVERSIONS NOT SHOWN
3. CALCULATIONS BASED ON 2015 MICHICAN PLUMBING CODE
4. MINIMUM DOWNSPOUT SIZE INTERPOLATED FROM 2015 MPC, TABLE 1106.2

KEYNOTES - ROOF PLAN NTS B

1. CONTRACTOR TO PROVIDE AND INSTALL RTU-1 IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS LAYOUT. MAINTAIN A MINIMUM 10'-0" CLEARANCE TO ANY EXHAUST TERMINATIONS.
2. CONTRACTOR TO PROVIDE AND INSTALL TYPE I EXHAUST FAN (EF-1) IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM EXHAUST HOOD UP TO EF-1 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
1 3. SCUPPER AND DOWNSPOUT. SEE ARCHITECTURAL PLANS FOR SIZING.
4. CONTRACTOR TO PROVIDE AND INSTALL EXHAUST FAN (EF-2) IN LOCATION AS SHOWN PLANS. CONNECT 8"x8" EXHAUST DUCT FROM RESTROOM EXHAUST GRILLES TO EF-2 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
5. CONDENSING UNIT SERVING WALK-IN COOLER/FREEZER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
6. CONDENSING UNIT SERVING ICE MAKER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
7. 1-1/4" GAS PIPING UP THROUGH ROOF FROM BELOW. CONTRACTOR TO ROUTE GAS THROUGH THE BASE PIPE CONNECTION. SHUT-OFF VALVE SHALL BE LOCATED OUTSIDE OF THE UNIT. CONNECT TO RTU AND PROVIDE WITH SHUT-OFF VALVE AND DIRT LEG.
8. PLUMBING VENT, REFERENCE 1/P2.0.
9. COORDINATE EXHAUST FAN LOCATION WITH ROOFTOP UNIT. MAINTAIN ROOFTOP UNIT MANUFACTURERS REQUIRED CLEARANCE AND MINIMUM OF 10 FT TO ROOFTOP UNIT'S OUTSIDE AIR INTAKE.
10. ROOF HATCH. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
11. PROVIDE 3" PVC COMBUSTION AIR INTAKE AND FLUE THROUGH ROOF. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL ON P6.0.
12. CONDENSING UNIT SERVING FROZEN BEVERAGE MACHINE. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
13. ALL UTILITY PIPING FOR RTU'S SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
14. ROUTE 1" CD DOWN THROUGH THE BASE PIPE CONNECTION. REFER TO P2.0 FOR CONTINUATION.

	DATE	REMARKS
1	04.15.21	Plan Review Comments
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BRAND DESIGNER:	Dickson
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DRAWN BY.:	QF
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
MECHANICAL ROOF PLAN

M2.1

PLOT DATE: 6/14/2021 8:39:37 AM

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FOR REFERENCE ONLY

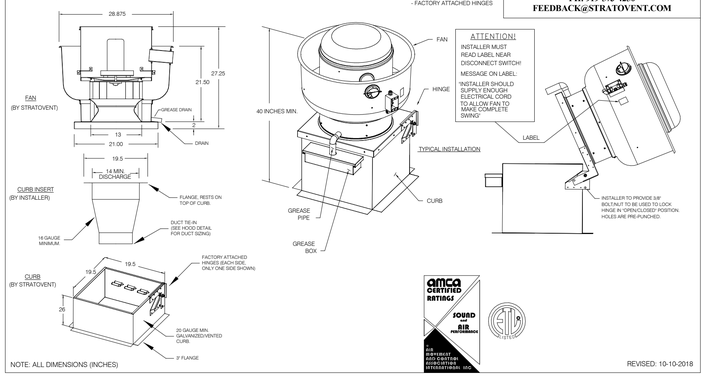
STRATOVENT MODEL# SVDU50HFA

TAG	HOOD	STRATOVENT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	MCA/MOP	WEIGHT (LBS.) FAN/CURB	SONES
EF-1	FRYER	SVDU50HFA	1050	0.9"	1429	0.50	0.33	1	115	8.4	10.5/15	85/40	14.5

SIZING NOTE: THE SELECTED FAN IS SUITABLE FOR MOST SINGLE STORY BUILDINGS. FOR LONGER DUCT RUNS, OR MULTI-STORY STRUCTURES, REQUEST A SITE ADAPT SELECTION.

SELECTED OPTIONS
- RESTAURANT MODEL
- UL762, GREASE RATED
- DIRECT DRIVEN
- SPEED CONTROLLER
- WEATHERPROOF DISCONNECT
- FLAT CURB, VENTED
- FACTORY ATTACHED HINGES

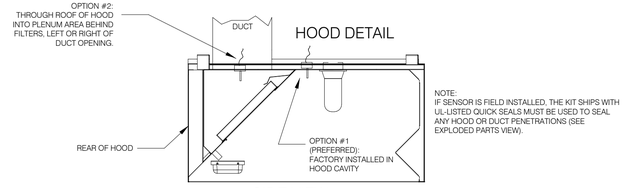
STRATOVENT
CALIFORNIA-OKLAHOMA-NORTH CAROLINA
PH: 919-573-4250
FEEDBACK@STRATOVENT.COM



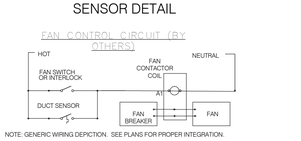
REVISED: 10-10-2018

HOOD EXHAUST FAN DETAIL NTS 7

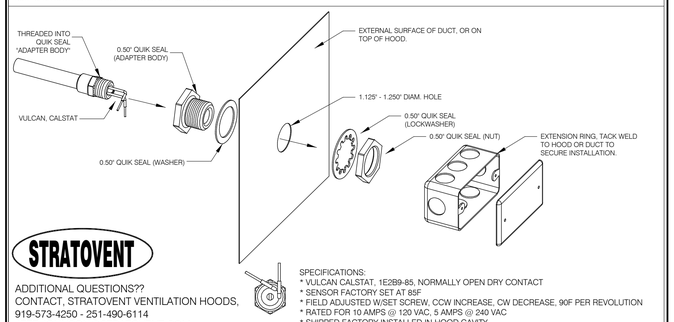
INSTALLATION: DUCT TEMPERATURE SWITCH



INSTALLATION: DUCT TEMPERATURE SENSOR



(1) NORMALLY OPEN DRY CONTACT, CLOSES ON TEMPERATURE RISE ABOVE 85F. WIRED IN PARALLEL TO NORMAL CONTROL CIRCUIT. WHEN ORDERED, SENSOR IS FACTORY INSTALLED IN HOOD CAVITY WITH J-BOX ON TOP OF THE HOOD.
(2) DO NOT USD SENSOR AS THE PRIMARY MEANS OF FAN CONTROL. USED ONLY AS A SAFETY DEVICE PER INTERNATIONAL MECHANICAL CODE TO ENERGIZE HOOD EXHAUST FAN WHEN COOKING EQUIPMENT GENERATES HEAT.
(3) FAN CONTACTOR AND CONTROLS BY OTHERS, SEE ELECTRICAL SHEETS FOR DETAILS.
(4) SEE SPECS ABOVE FOR TEMP SET POINT ADJUSTMENT



STRATOVENT

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

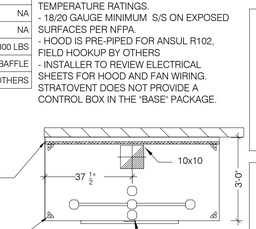
SPECIFICATIONS:
* VULCAN CALSTAT, 1E2B9-85, NORMALLY OPEN DRY CONTACT
* SENSOR FACTORY SET AT 85F.
* FIELD ADJUSTED W/SET SCREW. CCW INCREASE, CW DECREASE, 90F PER REVOLUTION
* RATED FOR 10 AMPS @ 120 VAC, 5 AMPS @ 240 VAC
* SHIPPED FACTORY INSTALLED IN HOOD CAVITY

MODIFIED: 04-11-2020

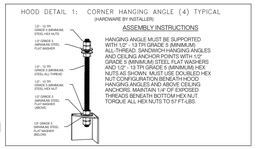
HEAT SENSOR ATTACHMENT NTS 5

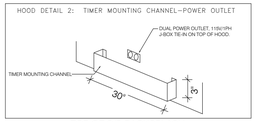
HOOD #	1 OF 1	MODEL #	STRATOVENT SVBD2
LENGTH (IN):	6'-3"	WIDTH (IN):	36"	HEIGHT (IN):	14"H
EXHAUST CFM:	1050	SUPPLY CFM:	BY RTU-SEE M1.0
EXHAUST SP:	0.9" (HOOD + DUCT)	SUPPLY SP:	NA
EXHAUST FPM:	1512	SUPPLY FPM:	NA
EXH. SIZE:	10"X10"	SUP SIZE:	NA
FILTERS: (4)	16" X 16"	HOOD WEIGHT:	300 LBS
FIRE SUPPRESSION:	ANSUL-R102	FILTER TYPE:	STAINLESS BAFFLE
LIGHT QTY: (3)	A19/ CFL	CONTROL SWITCH:	BY OTHERS

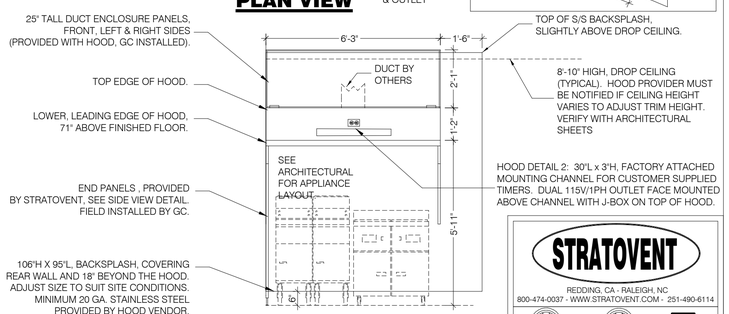
DESIGN NOTES:
- STRATOVENT HOODS ARE ETL LISTED TO UL-710 STANDARDS, 3054804-001
- MODEL SVBD2 IS A NON-CANOPY HOOD, "LISTED" VALUES ARE UTILIZED FOR AIRFLOW, OVERHANGS AND TEMPERATURE RATINGS.
- 18/20 GAUGE MINIMUM S/S ON EXPOSED SURFACES PER NFPA.
- HOOD IS PRE-PIPED FOR ANSUL R102, FIELD HOOKUP BY OTHERS
- INSTALLER TO REVIEW ELECTRICAL SHEETS FOR HOOD AND FAN WIRING. STRATOVENT DOES NOT PROVIDE A CONTROL BOX IN THE "BASE" PACKAGE.



PLAN VIEW







FRONT VIEW

STRATOVENT
REDDING, CA - RALEIGH, NC
800-474-0037 - WWW.STRATOVENT.COM - 251-490-6114
(UL/ULC-710 Standard) (NSF/ANSI Standard 2)
ETL-LISTED FILE #3054804-001 / TESTED TO UL-710

UPDATED: 6FT-3IN LONG VERSION, 04-11-2020

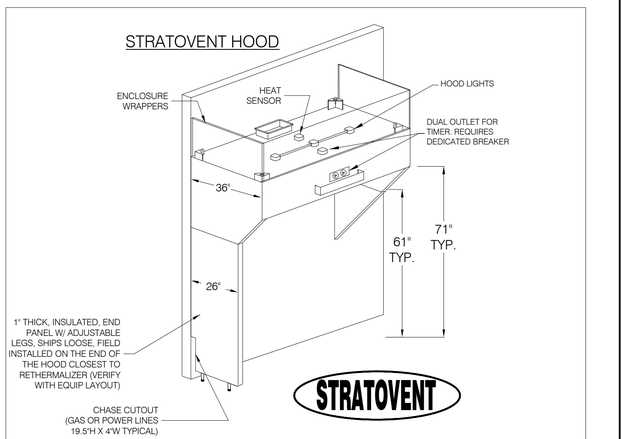
TACO BELL HOOD DETAIL NTS 2

1. Hoods shall be constructed of minimum 20 gauge stainless steel with # 3 polish. All unexposed surfaces shall be constructed of minimum 18 gauge aluminized steel.
2. UL classified aluminum or stainless steel baffle-type filters shall be easily removed for cleaning. Filter housing shall terminate in a pitched grease trough that drains into a removable stainless steel grease cup.
3. UL listed and NSF approved vapor proof incandescent light fixtures pre-wired to junction box at top of hood in accordance with NEC 70.
4. Pre-piped fire suppression systems shall be located on the top of the hood and provided with the hood is by a certified technician. Final connection of gas supplies and fire suppression drops to be locally approved and inspected.
5. Hood(s) shall be fabricated in accordance with NFPA Bulletin #96 and shall bear the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT. Certified by ETL under FILE# 3054804-001.

THIS HOOD DESIGN IS BASED UPON STRATOVENT, MODEL SVND2. MANUFACTURED BY:

STRATOVENT VENTILATION HOODS
RALEIGH, NC 27616
CONTACT: JEFF JOHNSON, 251-490-6114

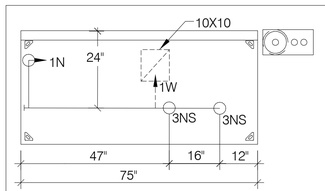
HOOD NOTES AND SPECS (TYP.) NTS 4



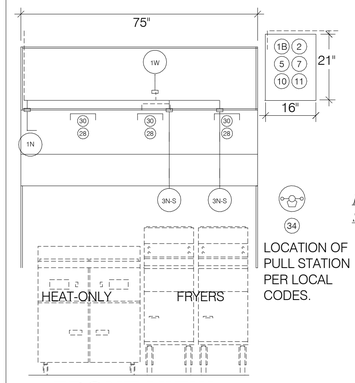
STRATOVENT-BRAND HOODS ARE CERTIFIED BY ETL-INTERTEK TO NATIONALLY RECOGNIZED UL-710 AND NSF STANDARDS.

CONTACT US:
WWW.STRATOVENT.COM
919-573-4250
FEEDBACK@STRATOVENT.COM

HOOD ISOMETRIC 12" = 1'-0" 3



PLAN VIEW



FRONT VIEW

PROJECT: TACO BELL

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

Hood #1: 6'-3" L x 36" W x 14" H
Exhaust Riser Size: 10" x 10"

NOTES
- FIELD PIPE DROPS AS SHOWN: SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY STRATOVENT FOR HOOD-BASED PIPING.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE, MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- ALL NOZZLE HEIGHT AND PLACEMENT TO BE DETERMINED BY INSTALLER AND AHJ PER ANSUL GUIDELINES.
- ALL PIPING TO BE 3/8" SCH 40 BLACK IRON.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- SYSTEM INSTALLATION AND FINAL HOOKUP SOURCED BY GEN CONTRACTOR. SYSTEM PARTS OPTIONALLY PURCHASED FROM STRATOVENT BY OWNER OR G.C..

LEGEND – WALL MOUNTED ANSUL SYSTEM

LOCATION OF PULL STATION PER LOCAL CODES.

1B 3.0 GALLON TANK
2 AUTOMAN RELEASE
5 ANSULEX LIQUID AGENT (3.0 GAL.)
7 CARTRIDGE (101-20)
10 TEST LINK
11 DOUBLE MICROSWITCH
1W NOZZLE ASSEMBLY (419336)
1N NOZZLE ASSEMBLY (419335)
3N NOZZLE ASSEMBLY (419338)
28 DETECTOR BRACKET
30 HIGH TEMP FUSIBLE LINK
MGV MECHANICAL GAS VALVE
34 REMOTE MANUAL PULL STATION
S SWIVEL ADAPTOR

DESIGN NOTE:
1) ABOVE DEPICTION SHOWS DUAL FRYERS ON RIGHT END OF THE HOOD. HOOD SUPPLIER WILL VERIFY EQUIP LAYOUT PER PLANS AND PLACE FRYER NOZZLES ON THE LEFT END WHEN APPROPRIATE TO SUIT SITE CONDITIONS

TACO BELL HOOD FIRE SUPPRESSION SYSTEM PLAN 12" = 1'-0" 6

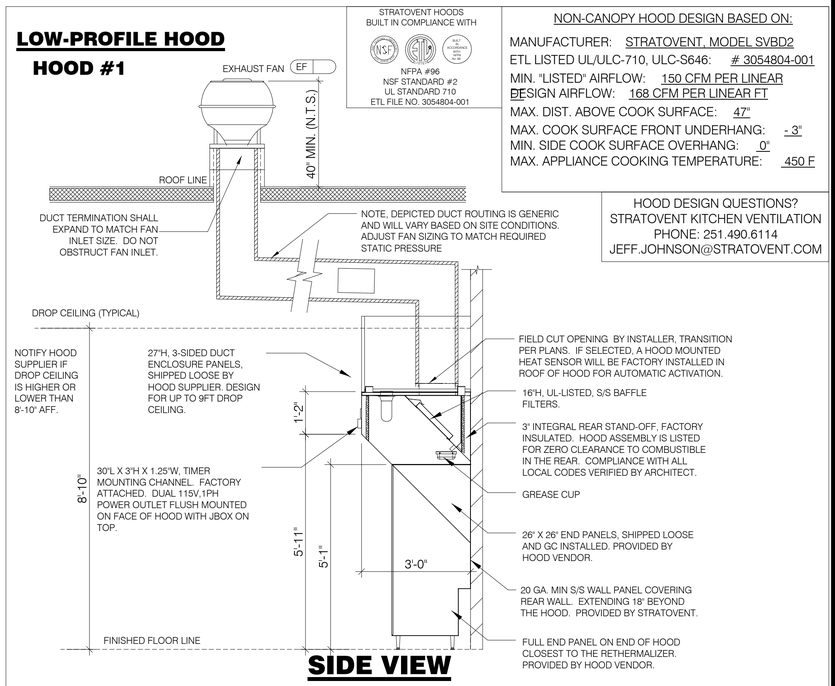
LOW-PROFILE HOOD

HOOD #1

STRATOVENT HOODS BUILT IN COMPLIANCE WITH
NFPA #96
NSF STANDARD #2
UL STANDARD 710
ETL FILE NO. 3054804-001

NON-CANOPY HOOD DESIGN BASED ON:
MANUFACTURER: STRATOVENT, MODEL SVBD2
ETL LISTED UL/ULC-710, ULC-S646: # 3054804-001
MIN. "LISTED" AIRFLOW: 150 CFM PER LINEAR
DESIGN AIRFLOW: 168 CFM PER LINEAR FT
MAX. DIST. ABOVE COOK SURFACE: 47"
MAX. COOK SURFACE FRONT UNDERHANG: - 3"
MIN. SIDE COOK SURFACE OVERHANG: 0"
MAX. APPLIANCE COOKING TEMPERATURE: 450 F

HOOD DESIGN QUESTIONS?
STRATOVENT KITCHEN VENTILATION
PHONE: 251.490.6114
JEFF.JOHNSON@STRATOVENT.COM



SIDE VIEW

UPDATED: 6FT-3IN LONG VERSION, 04-11-2020

TACO BELL HOOD SECTION 12" = 1'-0" 1

	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	QF
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
HOOD DETAILS AND SECTIONS

M3.0

PLOT DATE: 6/14/2021 8:39:37 AM

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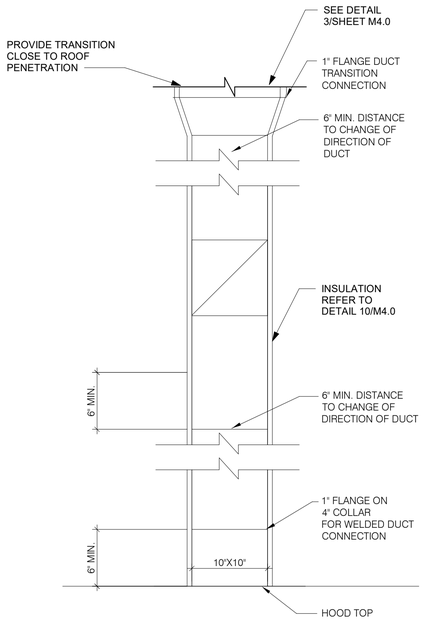
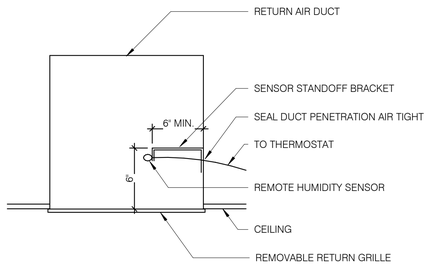
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

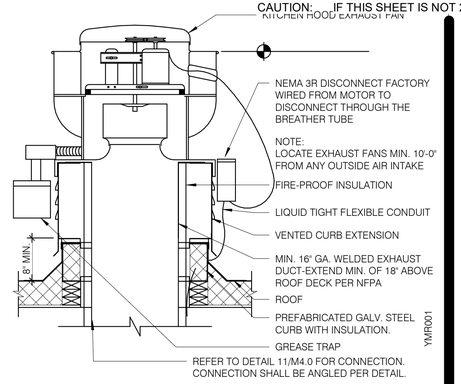


TB HOOD DUCT TRANSITION NTS **11**

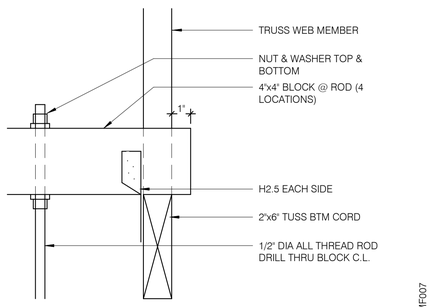


REMOTE HUMIDITY SENSOR NTS **8**

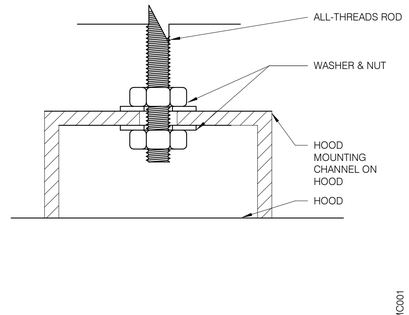
NOT_USED NTS **6**



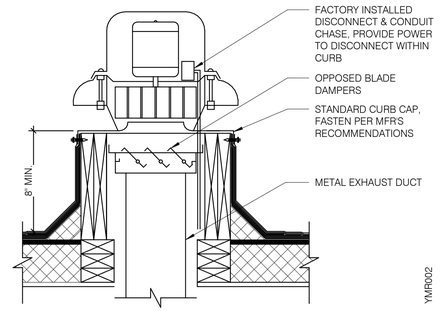
EXHAUST FAN (EF-1) NTS **3**



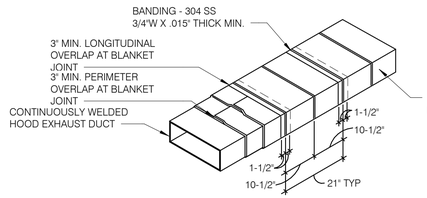
ROD ATTACHMENT NTS **7**



BOLT CONNECTION TO HOOD NTS **5**



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

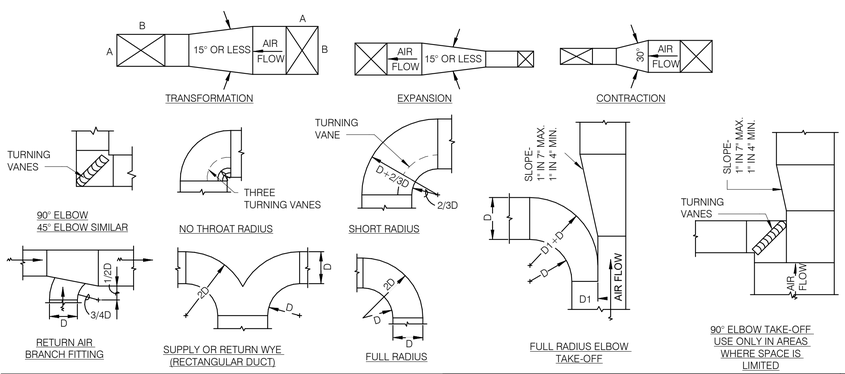


BANDING REQUIREMENTS: USE 304 STAINLESS STEEL BANDS A MAXIMUM 1-1/2" FROM BLANKET EDGE AND SPACED A MAXIMUM OF 10-1/2" ON CENTER.

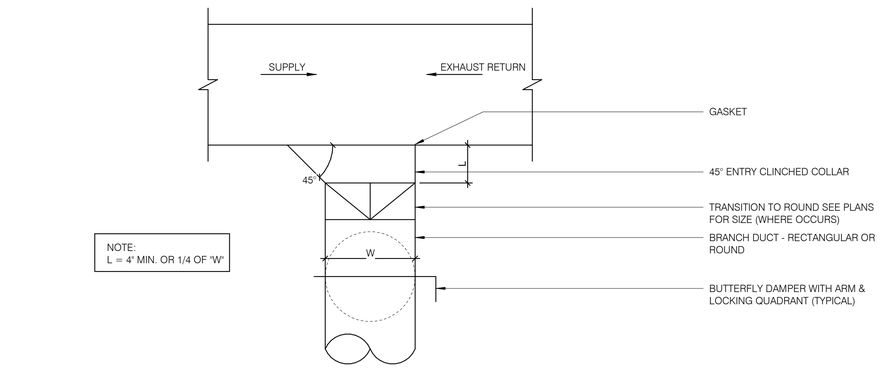
NOTES:

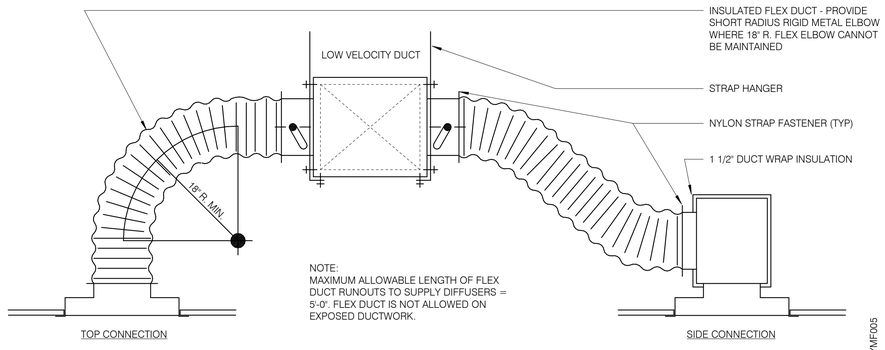
1. WRAP GREASE DUCT CONTINUOUS AS SHOWN FROM CONNECTION AT FAN THROUGH CURB AND EXTEND 18" MIN. BELOW ROOF DECK.
2. FOR HORIZONTAL RUNS OF EXHAUST DUCTS PROVIDE TYPICAL TRAPEZE SUPPORT SYSTEM WITH 1/2" HANGER RODS A MAXIMUM OF 6' FROM INSULATION EDGE. TRAPEZE SUPPORTS SHALL BE SPACED A MAXIMUM OF 60"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

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

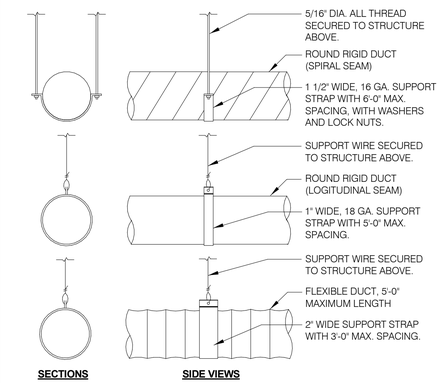


TYPICAL DUCTWORK DETAILS NTS **9**





CEILING DIFFUSER CONNECTIONS NTS **4**



DUCT SUPPORT DETAIL NTS **1**

	DATE	REMARKS
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TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
MECHANICAL DETAILS

M4.0

PLOT DATE: 6/14/2021 8:39:38 AM

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Installation, Start Up and Pre-Commissioning Checklist

☐ = Responsible Party
Initial When Completed

Standard RTU	Multi-Speed RTU	Reference #	PROCESS	GC - General Contractor	EC - Electrical Contractor	MC-Mechanical Contractor	PC-Plumbing Contractor	AB-Air Balance Agency	Remarks	CA-Commissioning Agent Functional Verification (CA Contracted by Owner)
		1	**Package Units**							
X	X	2	Reference and abide to all instructions in manufacturers Installation, Startup, Operation and Maintenance literature	☐	☐	☐	☐	☐		☐
X	X	3	Units are set level			☐				☐
X	X	4	Unit and plenums align to each other			☐				☐
X	X	5	Units and plenums are properly sealed to each other			☐				☐
X	X	6	All loose shipped components are relocated and installed per manufacturers instructions			☐				☐
X	X	7	a) economizer eyebrow, skirts and mist eliminator installed			☐				☐
X	X	8	b) economizer dampers and linkage installed and operable			☐				☐
X	X	9	c) economizer wiring connected and completed			☐				☐
X	X	10	d) relief damper or power exhauster installed and operable			☐				☐
X	X	11	e) smoke detectors and sample tubes relocated and installed per manufacurers instructions			☐				☐
X	X	12	Utilities are installed and ON to the units	☐	☐	☐	☐			☐
X	X	13	a) power on and breakers sized to unit rating		☐					☐
X	X	14	b) phases correct		☐					☐
X	X	15	c) gas on				☐			☐
X	X	16	d) gas gooseneck or pipe capacity meets or exceeds unit capacity				☐			☐
X	X	17	e) condensate line is piped per plan				☐			☐
X	X	18	f) condensate vent is on leaving side of trap				☐			☐
		19								
X	X	20	No thermostat, smoke detector, remote enunciator or any other wiring runs though the plenums		☐	☐				☐
X	X	21	Manufacturers start up procedure has been followed and all units evaporator fan operates through all fan stages per manufacturers instructions			☐				☐
X	X	22	Manufacturers start up procedure has been followed and all units cycle through all heating stages per manufacturers instructions			☐				☐
X	X	23	Manufacturers start up procedure has been followed and all units cycle through all cooling stages per manufacturers instructions			☐				☐
X	X	24	Manufacturers start up procedure has been followed and all units cycle through all economizer stages per manufacturers instructions			☐				☐
		25								
		26								
		27								
		28	**Ductwork**							
X	X	29	All ductwork and registers are installed per plan			☐				☐
X	X	30	All starters and or take offs are radiused per plan.			☐				☐
X	X	31	Ductwork from the exhaust register over production line to EF-2 fan base is 100% rigid per plan			☐				☐
X	X	32	Balance dampers are in sleeves on axles with locking quadrant, not located in any starter collars, "T"s or "Y"s and located per plan			☐				☐
X	X	33	Balance damper handles are flagged to identify their location			☐				☐
		34								
		35								
		36	**Economizer**							
X	X	37	All mechanical components related to the economizer have been installed			☐				☐
X	X	38	"Blank off" plate under economizer eyebrow has been installed			☐				☐
X	X	39	Barometric relief damper operates freely			☐				☐
X	X	40	Input sensors for the Economizer have been properly located and connected to the Economizer			☐				☐
X	X	41	Economizer has been tested to perform "Free" cooling when ambient conditions are below 55 degrees			☐				☐
X	X	42	Mechanical cooling stages on when Economizer cooling is not available			☐				☐
X	X	43	Mechanical cooling stages on with the Economizer cooling when conditioned space temperature rises and requires two stage cooling			☐				☐
X	X	44	Economizer damper positions to minimum damper position when set			☐				☐
		45								
		46	**Smoke Detectors**							
X	X	47	Smoke detector option has been included in package unit							
X	X	48	Return side smoke detector has been relocated from its shipping position to the factory provided installation location in the return section of the package unit			☐				☐
X	X	49	All smoke detector sample tubes are properly located per manufacturers design			☐				☐
X	X	50	The return smoke detector in each unit has been tested for unit shutdown			☐				☐
X	X	51	The supply smoke detector in each unit has been tested for unit shutdown			☐				☐
X	X	52	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed			☐				☐
		53								
		54	**Remote Smoke Detector Enunciators and Resets**							
X	X	55	A remote smoke detector enunciator and reset has been installed in the managers office for each package unit			☐				☐
X	X	56	RTU 1 supply side smoke detector alarm sets off the visual and audible remote			☐				☐
X	X	57	After triggering RTU 1 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation			☐				☐
X	X	58	RTU 1 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 1			☐				☐
X	X	59	After triggering RTU 1 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation			☐				☐
X	X	60	RTU 2 supply side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2			☐				☐
X	X	61	After triggering RTU 2 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation			☐				☐
X	X	62	RTU 2 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2			☐				☐
X	X	63	After triggering RTU 2 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation			☐				☐
X	X	64	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed			☐				☐
		65								
		66	**Power Exhauster**			☐				☐
X	X	67	Power Exhauster has been installed			☐		☐		☐
X	X	68	Power Exhauster "On" setpoint has been set and turns on and off at correct economizer opening percentage					☐		☐

Installation, Start Up and Pre-Commissioning Checklist

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		69								
		70	**Fire Supression System Shutdown**							
X	X	71	TBANS-1 has been installed per plan location		☐					☐
X	X	72	TBANS-1 has dedicated power to terminals TB-PWR		☐					☐
X	X	73	TBANS terminals TB1-1 and TB1-2 are wired to "Closed when Cocked" terminals of fire suppression system microswitch per detail		☐					☐
X	X	74	RTU 1 and RTU 2 low voltage control power is wired through terminals in TBANS-1			☐				☐
X	X	75	If present, electronic gas valve is wired through TBANS		☐	☐				☐
X	X	76	If required, TBANS to hoodstat has been wired for EF-1 on during supressant discharge event		☐					☐
X	X	77	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed		☐	☐				☐
		78								
		79								
		80	**Thermostat**							
X	X	81	Thermostats are wired to package units per thermostat and unit wiring diagrams			☐				☐
X	X	82	Package units equiped with two stage cooling have each cooling stage individualy wired and controled from their thermostat.			☐				☐
X	X	83	Package units equiped with two stage heating have each heating stage individualy wired and controled from their thermostat.			☐				☐
X	X	84	Thermostats are wired to TBCCB Control Box per Detail on plan sheet E-6			☐				☐
X	X	85	Thermostats are programmed to Taco Bell parameters			☐				☐
X	X	86	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed			☐				☐
X		87								
		88	**Hoodstat**							
X	X	89	Hoodstat has been installed in duct or hood per plan			☐				☐
X	X	90	Hoodstat is wired to terminals TB2 of the TBCCB Control Box		☐					☐
X	X	91	Hoodstat microswitch closes at 85 degrees		☐					☐
		92								
		93								
		94	**TBCCB & Interlock**							
X	X	95	Unswitched power is provided to H=HOT and N=Neutral and G=Ground terminals in the TBCCB Control Box		☐					☐
X	X	96	Hoodstat wires are landed on terminals TB2 of the TBCCB Control Box		☐					☐
X	X	97	Low voltage wiring has been completed between RTU 1 and TB-1 of the TBCCB Control Box			☐				☐
X	X	98	Low voltage wiring has been completed between RTU 2 and TB-1 of the TBCCB Control Box			☐				☐
X	X	99	Photocell is wired to the TBCCB per detail		☐					☐
X	X	100	Any optional switches, if used, have been installed to TBCCB per schematic		☐					
X	X	101	"Occupied" and "Unoccupied" times for the building have been programmed into Channel/Switch 1 of the Timeclock in TBCCB Control Box		☐					☐
X	X	102	"Open" and "Closed" times for Taco Bell sales have been programmed into Channel/Switch 2 of the Timeclock in TBCCB Control Box		☐					☐
X	X	103	Visual Verification installation certification document has been requested (certify@ace-bcx.com)and completed		☐					☐
		104								
		105	**Visual Verification**							
X	X	106	Visual Verification installation certificate has been received for Smoke Detectors			☐				☐
X	X	107	Visual Verification installation certificate has been received for Remote Smoke Detectors Ennunciators and Resets			☐				☐
X	X	108	Visual Verification installation certificate has been received for Thermostat and Remote Sensors installation			☐				☐
X	X	109	Visual Verification installation certificate has been received for TBANS-1 installation		☐					☐
X	X	110	Visual Verification installation certificate has been received for TBCCB		☐					☐
X	X	111	Visual Verification installation certificate has been provided to designated authority (Owner, GC, Air Balancing Agency, Commissioning Agency)		☐	☐				☐
		112								
		113								
		114	**Lighting**							
X	X	115	Interior lights are wired through the TBCCB per plan and schematic		☐					☐
X	X	116	Occupancy sensor controlled lighting installed in restrooms		☐					☐
X	X	117	Daylighting and dimming box (DDCB-ACI) is installed in jurisdictions requiring daylight harvesting and or dimming of interior lights		☐					☐
X	X	118	Photocell is wired to the TBCCB control box per plan and schematic		☐					☐
X	X	119	Exterior lights are wired to the TBCCB control box per plan and schematic		☐					☐
X	X	120	Sign lights are wired to the TBCCB control box per plan and schematic		☐					☐
X	X	121	TBCCB timeclock is programmed to Taco Bell parameters		☐					☐
X	X	122	Manual override of TBCCB control box timeclock activates lighting circuits		☐					☐
		123								
		124	**Commissioning**							
X	X	125	All Visual Verification installation certificates have been received							☐
		126								
		127	**Air Balance Supplement**							
X	X	128	Balancing performed in accordance to ASHRAE Standard 111-2008, NEBB, TABB or AABC standards					☐		☐
X	X	129	Perform full fan speed adjustments after exhaust fan adjustments and supply air distribution adjustments have been made					☐		☐
X	X	130	Perform outside air adjustment after all other balance adjustments are complete					☐		☐
X	X	131	Perform outside air adjustment at full evaporator fan speed operating point					☐		☐
	X	132	Perform outside air adjustment at medium fan speed operating point					☐		☐
	X	133	Perform outside air adjustment at low fan speed operating point					☐		☐
X	X	134	Verify lobby doors closures have been adjusted for ADA compliance					☐		☐
X	X	135	Verify lobby doors closure operation during full economizer function of both package units and note result in air balance report					☐		☐
X	X	136	Verify pressure relief system operation in full economizer operation					☐		☐
X	X	137	Adjust power exhauster "ON" and "OFF" positions to mitigate door closure issues. Note if no power exhauster is available.					☐		☐
X	X	138	Provide copy of air balance report to Commissioning Agent					☐		☐

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
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JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
INSTALLATION START-UP PRE-COMM CHECK LIST

M5.0

PLOT DATE: 6/14/2021 8:39:40 AM

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

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

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

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

1 4. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.

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

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

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

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

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

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

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

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

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

14. ALL GAS LINES SHALL BE SUPPORTED SEE SPECS.

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

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

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

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

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

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

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

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

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

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

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

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

GENERAL NOTES - PLUMBING NTS 4

1

SYMBOLS	ABBREV.	DESCRIPTION
	Y.B.	YARD BOX
	R.D.	ROOF DRAIN
	A.P.	ACCESS PANEL
	V.T.R.	VENT THRU ROOF
	V.B.F.	VENT BELOW FLOOR
	U.T.R.	UP THRU ROOF
	V.C.P.	VITRIFIED CLAY PIPE
	C.I.	CAST IRON
	A.C.P.	ASBESTOS CEMENT PIPE
	(N)	NEW
	(E)	EXISTING
⊜	F.D.	FLOOR DRAIN
⊙	H.D.	HUB DRAIN
	OFD	OVERFLOW DRAIN
⊠	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
X-X 0000		PLUMBING EQUIPMENT DESIGNATION
XXX		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DESCRIPTION.
SS	◇	SOIL OR WASTE (SANITARY)/WASTE STUB
GW	◇	SOIL OR WASTE (GREASE WASTE)/WASTE STUB
G	G	GAS / GAS STUB
CW	CW	COLD WATER/ CW STUB
HW	HW	HOT WATER / HW STUB
HWR	H.W.R.	HOT WATER RETURN
	V	SANITARY VENT
SD	S.D.	STORM DRAIN
CD	C.D.	CONDENSATE DRAIN
⊕	F.C.O.	FLOOR CLEANOUT OR CLEANOUT TO GRADE
⊩	W.C.O.	WALL CLEANOUT
FW	FW	FILTERED WATER
TW	TW	PREMIXED TEMPERATURE WATER
⊣	H.B.	HOSE BIBB
⋈	S.O.V.	SHUT-OFF GATE VALVE
⋈	S.O.C.	SHUT-OFF GAS COCK
⋈	C.V.	CHECK VALVE
⋈	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
⋈	B.V.	BALL VALVE
	C.W.	COLD WATER BELOW GRADE
⊡	E.C.O.	EXTERIOR CLEAN OUT
	BFP	BACK FLOW PREVENTER
	FU	FIXTURE UNIT

PLUMBING LEGEND NTS 3

FIXTURE	NO.	DRAIN		COLD WATER		HOT WATER	
		D.F.U.	TOTAL D.F.U.	F.U. C.W.	TOTAL C.W.	F.U. H.W.	TOTAL H.W.
WATER CLOSET	1	4	4	5	5	--	--
URINAL	0	5	--	5	--	--	--
LAVATORY	1	1	1	1.5	1.5	1.5	3
HAND SINK	3	2	6	1.5	4.5	1.5	4.5
PREP SINK *	1	--	--	2	2	2	2
3 - COMPARTMENT SINK *	1	--	--	3	3	3	3
HOSE BIBB/WATER FILTRATION UNIT	2/1	--	--	5/0.5	12	--	--
FLOOR DRAIN	6	2	12	--	--	--	--
HUB DRAIN	2	2	4	--	--	--	--
FLOOR SINK	3	3	9	--	--	--	--
MOP SINK	1	3	3	2.25	2.25	2.25	2.25
RETHERMALIZER *	1	--	--	--	--	1.0	1.0
TOTAL	--	--	39	--	30.25	--	14.25

1

PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS: 1

COLD WATER: 35.25 FU = 25 GPM
DRAIN: GW 22 DFU
DRAIN: SAN 18 DFU
HOT WATER: 14.25 FU = 17 GPM

USE 1-1/2" CW SERVICE
USE 4" SANITARY (MIN)
USE 4" SANITARY (MIN)
USE 1-1/4" HW SERVICE

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

PLUMBING FIXTURE COUNT NTS 2

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMP'D WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
ECO 1	EXTERIOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
FS 1	FLOOR SINK	4"	2"	--	--	--	6	--	PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLUSH WITH FLOOR TILE.	JOSAM / MODEL: JPFS4-PVC ZURN / MODEL: FD-2370-PV4-DS-F
FS 2	FLOOR SINK	3"	2"	--	--	--	6	--	CAST IRON 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP.	JOSAM / MODEL: 49034AS WADE / MODEL: 9144 ZURN / MODEL: Z-1900-32
FD 1	FLOOR DRAIN	3"	2"	--	--	--	2	--	PVC FLOOR DRAIN, 5" DIA. IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 PVC DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN.	ZURN / MODEL: FD-2210 JOSAM / MODEL: 30003-A WADE / MODEL:1103
HD 1	HUB DRAIN	3"	2"	--	--	--	2	--	CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED CLEANOUT PLUG.	JOSAM / MODEL: 88213 WADE / MODEL: 2453EF ZURN / MODEL: Z-1019
FCO 1	FLOOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
WCO 1	WALL CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	JOSAM / MODEL: 58510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446-BP
HB 1	HOSE BIBB	--	--	3/4"	--	--	--	2.5/1	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND NICKEL BRONZE BOX.	JOSAM / MODEL: 71000 WADE / MODEL: 8600L ZURN / MODEL: Z-1300
GREEN WC 1	WATER CLOSET	4"	2"	1/2"	--	--	4	2	WHITE VITREOUS CHINA FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.1 GPF, WITH OPEN FRONT SEAT LESS COVER, OLSENITE #95 OR EQUIVALENT. FLUSHOMETER TANK: SLOAN FLLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS	AM. STD. "CADET" / MODEL: 2467.100 KOHLER "HIGHLINE" / MODEL: K-3519 CRANE "ECONMISER" / MODEL: 31888
GREEN L 1	LAVATORY	1-1/4"	1-1/2"	1/2"	--	1/2"	1	1.5	WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT SEE 5/P6.0, 4" CENTERS, WITH INTEGRAL BACKSPLASH, ADA ACCESSIBLE. FLAT GRID STRAINER. BRAIDED WATER LINES. FAUCET: FURNISHED BY OWNER-INSTALLED BY G.C. ELECTRONIC SENSOR TYPE FAUCET. SLOAN SF-2300, ADA COMPLIANT. SEE 5/P6.0 FOR LAV SUPPORT DETAIL, .5 GPM AERATOR	A.S. COMRADE/ MODEL: 0124.131 CRANE "HARWICH" / MODEL: 1412V
GREEN S 1	HAND SINK	1-1/2"	1-1/2"	1/2"	--	1/2"	2	1.5	S-1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS. FAUCET W/SINGLE KNEE PEDAL. BRAIDED WATER LINES, 0.5 GPM AERATOR.	--
S 2	MOP SINK	3"	2"	1/2"	1/2"	--	3	2.25	MOP SINK: AERO - 3MP-2121-6 W/ 48" HIGH S.S. LEFT SIDE AND BACK-SPLASH. FURNISHED BY OWNER, INSTALLED BY G.C. FAUCET: T&S #B2465, WITH VACUUM BREAKER, FURNISHED BY OWNER, INSTALLED BY G.C.	--
S 3	3-COMP. SINK	INDIRECT	--	1/2"	1/2"	--	--	3	SINK, FAUCET & DRAIN, GEN IV POWER SOAK STANDARD, GEN III IS AN OPTION FOR FRANCHISES	--
S 4	PREP SINK	INDIRECT	--	1/2"	1/2"	--	--	3	SINK, FAUCET AND DRAIN	--
GI 1	GREASE INTERCEPTOR	4"	--	--	--	--	--	--	PRECAST 1,000 GALLON GREASE INTERCEPTOR WITH SAMPLING BOX. SEE SITE PLAN FOR EXTERIOR GREASE INTERCEPTOR LOCATION.	JENSEN / JP1000G
MV 1	MIXING VALVE	--	--	1/2"	1/2"	--	--	--	THERMOSTATIC, 125 P516, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.	POWERS SERIES LFLM495 LAWLER SERIES 310 LEONARD SERIES 170
1 WH 1	WATER HEATER	--	--	1-1/4"	1-1/4"	--	--	--	GAS FIRED WATER HEATER, 95% THERMAL EFF., 199,000 BTUH INPUT, 100 GAL. STORAGE TANK, 230 GPH @ 100 DEG. RISE REC. RATE, 3" PVC FLUE & INTAKE, ASME RTD TEMP. & PRESS. REL. VALVE, ELECTRONIC IGNITION SYSTEM AND ELECTRONIC CONTROLS. Call 800-477-1953 Option #1 for National Account Price & Service	AO SMITH / CYCLONE MXI BTH-199 STATE / SUF 100 199 NE --
ET 1	EXPANSION TANK	--	--	3/4"	--	--	--	--	EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON CAPACITY.	WATTS SERIES DETA AMTROL SERIES ST WILKINS SERIES WXTP
BFP 1	BACKFLOW PREVENTOR	--	--	VERIFY	--	--	--	1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION WITH QUARTER TURN FULL-PORT BALL VALVES AND BRONZE STRAINER.	WATTS / MODEL: LF009M2QTS WILKINS / MODEL: 975XLS FEBCO / MODEL: 860
RO 1	REVERSE OSMOSIS	INDIRECT	--	1/2"	--	--	--	--	REVERSE OSMOSIS FILTER SYSTEM BY OWNER. SEE DETAIL 9/P6.0	--
RP 1	RECIRC PUMP	--	--	--	1/2"	--	--	--	0.5 GPM @5 FEET HEAD. PROVIDE WITH CHECK VALVE, BALANCE VALVE, AND AQUASTAT.	TACO 009

PLUMBING FIXTURE SCHEDULE NTS 1

GPD GROUP
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AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: QF
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
PLUMBING SCHEDULES AND NOTES

P1.0

PLOT DATE: 6/14/2021 8:39:41 AM

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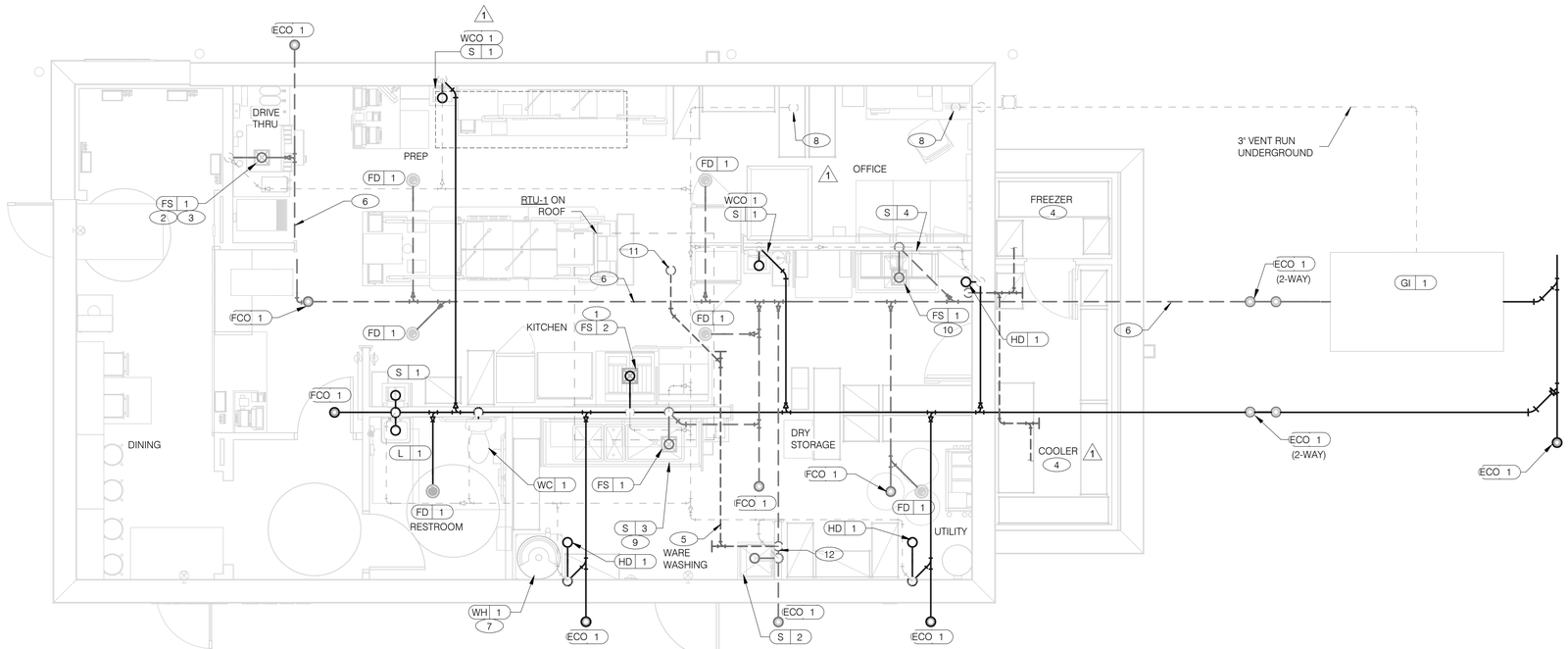
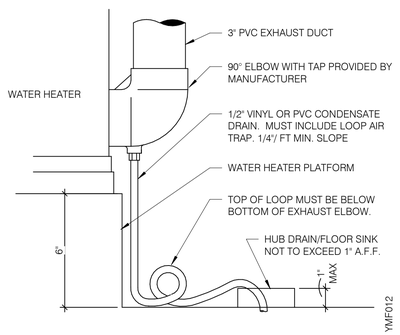


WASTE & VENT PIPING PLAN 1/4" = 1'-0" | 1



WATER HEATER CONDENSATE DETAIL NTS | 4

A. NO ROOF PENETRATIONS PERMITTED WITHIN ROOF WATER PLY. REFER TO ROOF PLAN FOR LOCATIONS.

B. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR ALL WASTE AND VENT SIZES.

C. SEE ARCHITECTURAL PLANS FOR DOWNSPOUT LOCATIONS

D. VERIFY WITH THE LOCAL BUILDING AUTHORITY THAT CONDENSATE DRAINAGE CAN BE ROUTED TO THE MOP SINK.

WASTE & VENT PLAN NOTES NTS | 3

1. UNDERGROUND SANITARY PIPE SHALL BE NO HUB CAST IRON PIPE FOR THE FIRST 10 FEET FROM CONNECTION TO FLOOR SINK FS-2, OUTWARD.
2. PROVIDE CONDENSATE LINE AND DRAIN LINE FROM ICE MACHINE TO HD / FS, PROVIDE AIR GAP PER LOCAL CODE. SEE 11/A6.4
3. PROVIDE WASTE LINES FROM BEVERAGE UNIT TO HD / FS, PROVIDE AIR GAP PER LOCAL CODE. SEE 11/A6.4
4. PROVIDE 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO OUTFALL AT HUB DRAIN/MOP SINK (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE). CONCEAL CONDENSATE PIPE IN WALL.
5. PVC OR COPPER CONDENSATE DRAIN FROM HVAC UNITS ON ROOF, RUN TO MOP SINK. PIPING SHALL SLOPE 1/4" PER FOOT AND SHALL BE INSULATED WITH 1" CLOSED CELLULAR INSULATION. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR PIPE SIZES.
6. ENTIRE RUN OF DRAIN LINES TO INLET OF EXTERIOR GREASE INTERCEPTOR AND OUTBOUND FROM INTERCEPTOR TO CONNECTION AT SANITARY MAIN SHALL BE SCHEDULE 40 PVC DWV OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. ROUTE INDIRECT WASTE FROM WH-1 TO HD-1. REFERENCE DETAIL 2/P6.0 AND DETAIL 4/P2.0.
8. 4" VENT UP THROUGH ROOF.
9. PIPE 3-COMPARTMENT SINK TO FLOOR SINK WITH AIR GAP PER CODE.
10. ROUTE DRAIN FROM REVERSE OSMOSIS DISCHARGE TO FLOOR SINK. ENSURE PROPER AIR GAP.
11. 1" CONDENSATE DRAIN DOWN FROM RTU-1. SEE DETAIL 10/P6.0.
12. CONDENSATE DRAIN PIPE DOWN TO MOP SINK. PROVIDE AIR GAP AS REQUIRED BY CODE. IF REQUIRED RUN CONDENSATE PIPING TO EXTERIOR DRYWELL, RETENTION AREA OR STORM SEWER AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

KEYNOTES - WASTE AND VENT NTS | 2

	DATE	REMARKS
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CONTRACT DATE: 12.1.20
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PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: QF
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
WASTE AND VENT PLAN

P2.0

PLOT DATE: 6/14/2021 8:39:45 AM

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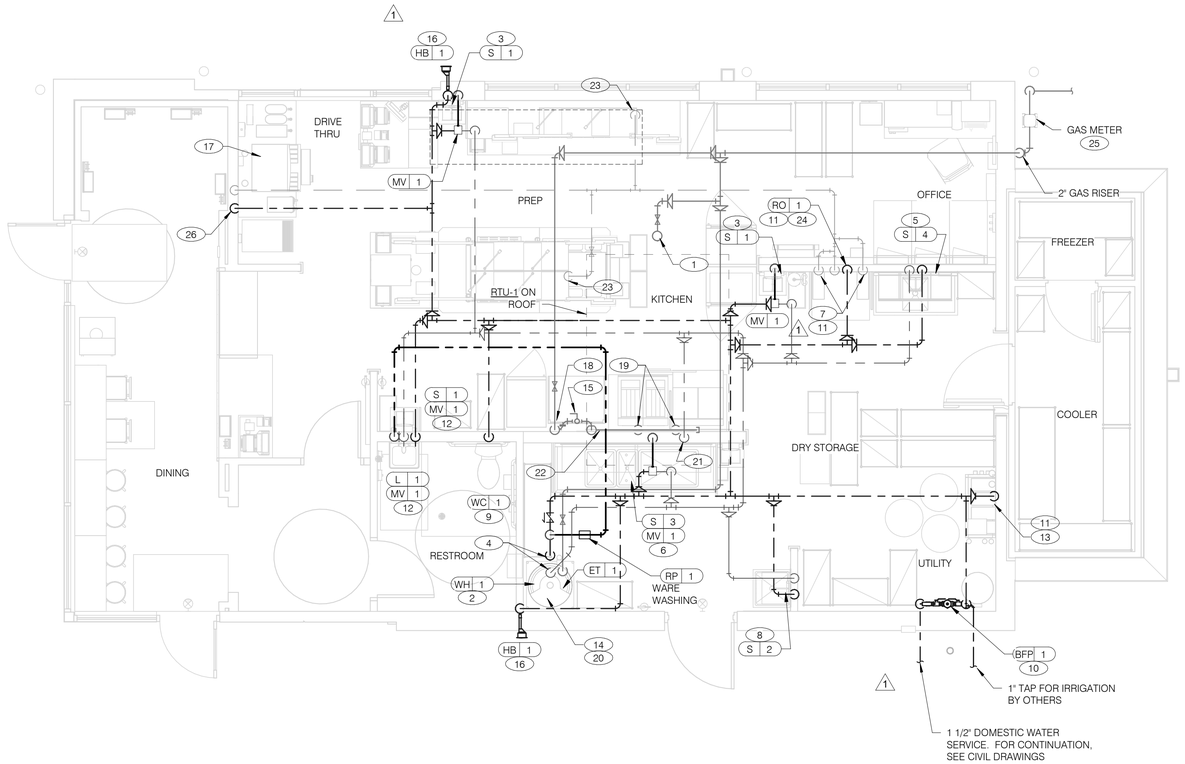

WATER & GAS PLAN 1/4" = 1'-0" 1

A. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISH CEILING. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.

B. NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS". REFER TO ROOF PLAN FOR LOCATIONS.

C. REFER TO SHT P4.0 FOR ROUGH-IN LOCATIONS.

D. 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 AIRGAP

WATER & GAS PLAN NOTES NTS 3

1. 1-1/4" (360 CFH) GAS UP TO RTU-1 WITH DIRT LEG, GAS COCK AND UNION.
2. 1" (120 CFH) GAS DOWN TO WATER HEATER WITH GAS COCK, DIRT LEG AND UNION.
3. 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK.
4. 1-1/2" HOT AND 1-1/2" COLD WATER LINES DOWN TO WATER HEATER.
5. 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
6. 1/2" TEMPERED WATER DOWN IN WALL TO THREE COMPARTMENT SINK.
7. 1/2" COLD WATER 2'-0" A.F.F. . CONNECT TO WATER FILTER FOR HOT WATER SYSTEM P-452. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO TO WATER FILTER.
8. 1/2" COLD AND HOT WATER DOWN IN THE WALL TO THE MOP SINK.
9. 3/4" CW DOWN IN WALL TO FLUSH TANK WATER CLOSET.
10. REDUCED PRESSURE BACKFLOW PREVENTER LOCATED PER LOCAL UTILITY REQ'S. PIPE RELIEF TO HUB SINK.
11. PROVIDE AND INSTALL ASSE 1022 DUAL CHECK VALVE BACKFLOW PREVENTER PRIOR TO FINAL EQUIPMENT CONNECTION.
12. 1/2" HOT AND COLD WATER DOWN IN WALL TO LAVATORY. ROUTE 1/2" HOT WATER UP TO CEILING SPACE. INSTALLATION SHALL BE IN COMPLIANCE OT 2015 MEC. PROVIDE POINT OF USE MIXING VALVE BELOW FIXTURE AND EXTEND TEMPERED WATER TO LAVATORY.
13. 3/4" CW DOWN ALONG WALL TO WATER FILTER S-540.
14. WATER HEATER (WH-1). PIPE CONDENSATE LINE. T&P DISCHARGE AND DRAIN PAN TO HUB DRAIN. SEE WATER HEATER DETAIL 2/P6.0.
15. EMERGENCY GAS SHUT OFF VALVE LOCATED BELOW CEILING.
16. 3/4" CW DOWN IN WALL TO EXTERIOR HOSE BIBB.
17. BUNDLED SYRUP LINES TO BEVERAGE DISPENSERS S-284 & S-285 AND FILTERED WATER LINES TO ICE MAKERS S-513 AND FROZEN BEVERAGE DISPENSER S-546. SEE DRAWINGS A2.0 AND P5.0. PROVIDE AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR SOFT DRINK CARBONATOR.
18. 1-1/4" GAS DOWN ALONG WALL TO TACO BELL COOKING EQUIPMENT. VERTICAL GAS PIPING IN WALL SHALL NOT BE RIGIDLY SECURED AND ADEQUATE PIPE PROTECTION SHALL BE PROVIDED.
19. 3/4" GAS DIRT LEG W/ GAS COCK TO COOKING EQUIPMENT. PROVIDE FLEXIBLE GAS HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT.
20. 3" PVC EXHAUST AND INTAKE FLUES FROM WATER HEATER, PIPE THROUGH ROOF AS RECOMMENDED BY MANUFACTURER TO LOCATIONS SHOWN ON SHEET M2.0. SEE DETAIL 2/P6.0.
21. 1/2" HOT WATER DOWN IN WALL TO TB RETHERMALIZER C-107. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
22. RUN GAS PIPE 18" A.F.F. WITH DIRT LEGS FOR GAS HOSE KITS TO COOKING EQUIPMENT C-026 AND C-107.
23. 1/2" RO WATER PIPE DOWN IN WALL AND ROUTED IN LOW WALL OF DRY PRODUCTION LINE. PROVIDE SHUT-OFF VALVE ON RO PIPING IN CEILING NEAR CHASE.
24. 1/2" COLD WATER TO REVERSE OSMOSIS FILTER P-315 AND 1/2" FILTER WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF VALVE ON CW PIPE PRIOR TOCONNECTION TO FILTER. SEE DETAIL 9/P6.0.
25. GAS METER REGULATOR VALVES, BRACKETS, ETC. AS REQUIRED BY LOCAL GAS CO. SEE CIVIL DRAWINGS FOR CONTINUATION.
26. 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.

KEYNOTES - WATER AND GAS NTS 2

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
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	DATE	REMARKS
1	04.15.21	Plan Review Comments
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SITE NUMBER:	313798
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DRAWN BY.:	QF
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
WATER AND GAS PLAN

P3.0

PLOT DATE: 6/14/2021 8:39:48 AM

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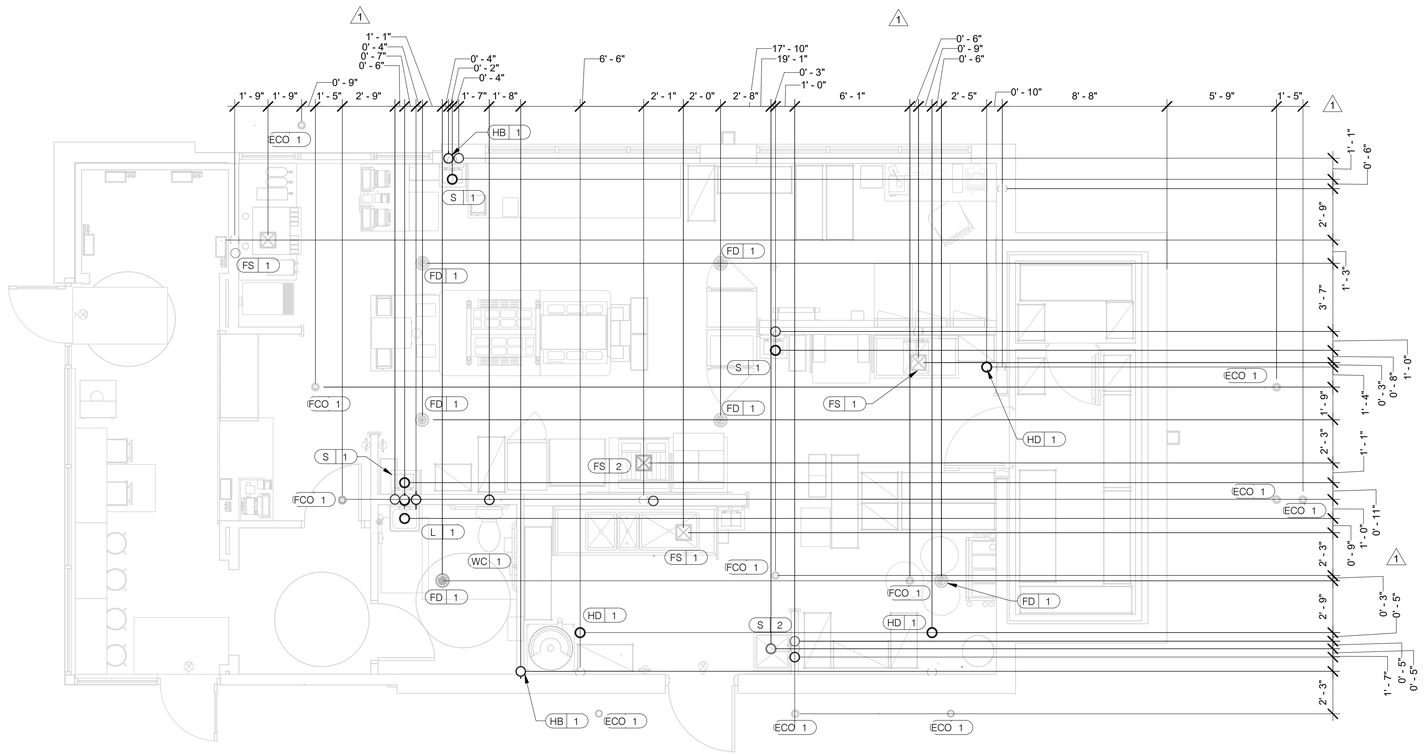

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
FS 1	FLOOR SINK			--
FS 2	FLOOR SINK			EPOXY COATED CAST IRON
HD 1	HUB DRAIN			--
WH 1	WATER HEATER	CW		--
WH 1	WATER HEATER	G	+15" A.F.F.	--
WC 1	WATER CLOSET	CW	+29" A.F.F	BOTH HANDICAP AND REGULAR
UR 1	URINAL FLUSH VALVE	CW	+47" A.F.F.	WALL MOUNTED
UR 1	URINAL WASTE STUB	W	+16-1/2" A.F.F.	WALL MOUNTED
L 1	LAVATORY	TW	+20" A.F.F.	--
L 1	LAVATORY WASTE LINE	W	+16-1/2" A.F.F.	--
RO 1	REVERSE OSMOSIS	CW	+84" A.F.F	--
S 1	HAND SINK	TW	+18" A.F.F	RIM OF LAV @ +2'-8" A.F.F.
S 2	MOP SINK	W	-6" A.F.F.	RECESSED IN FLOOR
S 2	MOP SINK FAUCET	CW/HW	+36" A.F.F	--
S 2	MOP SINK FAUCET	CW/HW	+42" A.F.F	CLOSET MOP SINK ONLY
S 3	3-COMPARTMENT SINK	W	+19" A.F.F	--

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
S 3	3-COMPARTMENT SINK FAUCET	CW/HW	+38" A.F.F	--
S 4	PREP SINK	W	+19" A.F.F	--
S 4	PREP SINK FAUCET	CW/HW	+38" A.F.F	--
WCO 1	WALL CLEAN OUT			--
FCO 1	FLOOR CLEAN OUT			--
HB 1	HOSE BIB			--
C-107	RETHERMALIZER	HW	+8" A.F.F.	
C-107	RETHERMALIZER	G	+12" A.F.F.	
C-026	DUAL VAT FRYER	G	+12" A.F.F.	
S-286	WATER FILTER SYSTEM	CW	+94" A.F.F.	INLET TO & OUTLET FROM FILTER
P-452	HOT WATER SYSTEM	CW	+24" A.F.F.	

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

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.

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

PLUMBING ROUGH-IN SCHEDULE NTS **4**

SYMBOL LEGEND NTS **3**

PLUMBING ROUGH-IN NOTES NTS **2**

GPD GROUP
Professional Corporation
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	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: QF
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
PLUMBING ROUGH-IN PLAN

P4.0

PLOT DATE: 6/14/2021 8:39:50 AM

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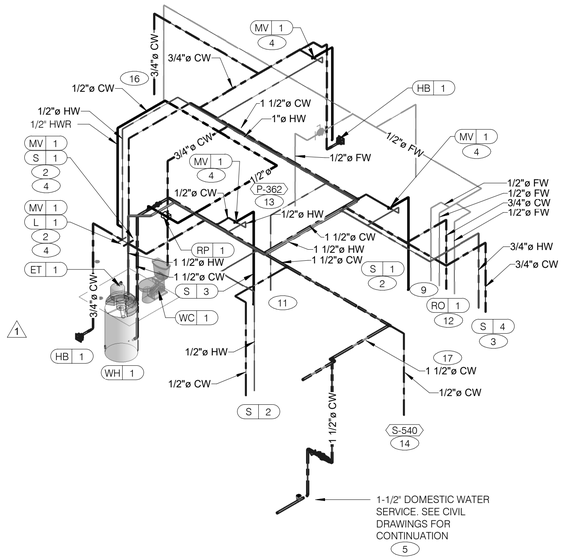
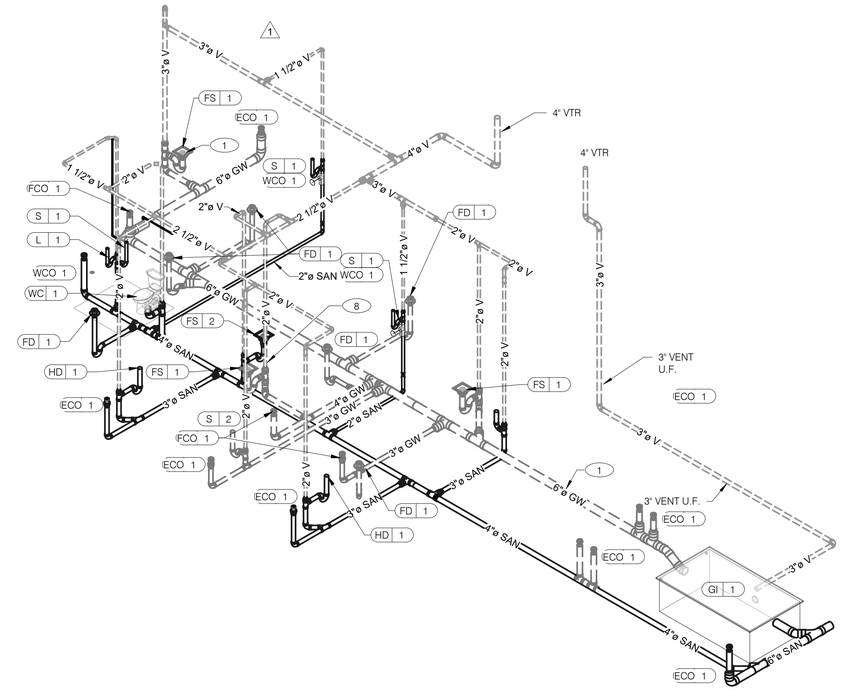
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



WATER ISOMETRIC NTS 4

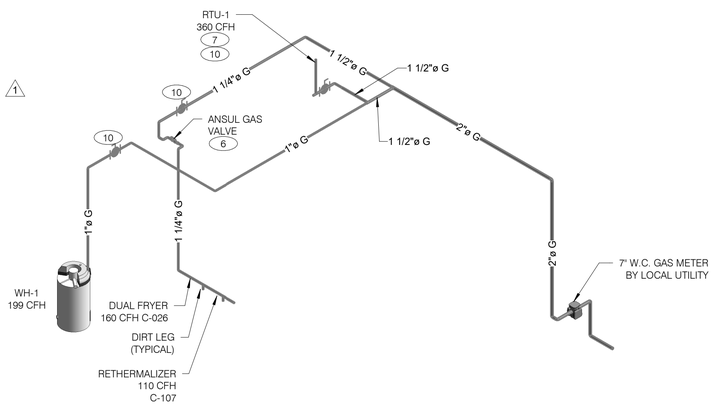


WASTE AND VENT ISOMETRIC NTS 1

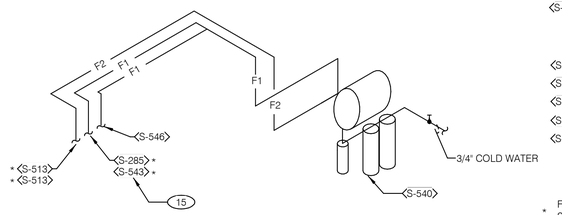
GAS DEMAND SCHEDULE	
RTU-1	360 CFH
WH-1	199 CFH
DUAL FRYER	160 CFH
RETHERMALIZER	110 CFH
TOTAL DEMAND	829.0 CFH = 829,000 BTUH

NOTE:
COORDINATE GAS DEMAND REQUIREMENTS WITH SITE-SPECIFIC RTU DESIGN.

PIPE SIZE BASED ON 100' OF PIPE AND 7" W.C. OPERATING PRESSURE



GAS ISOMETRIC NTS 5



FILTERED EQUIPMENT AND LINES:

<S-540> - WATER FILTER

FILTERED LINE (COLD WATER)

<S-513> - ICE MAKER - ABOVE SELF-SERVE BEVERAGE DISPENSER *
<S-513> - ICE MAKER - ABOVE DRIVE-THRU BEVERAGE DISPENSER *
<S-285> - DRIVE-THRU BEVERAGE DISPENSER *
<S-546> - ICED TEA BREWER
<S-543> - FROZEN BEVERAGE DISPENSER

* FILTERED WATER SUPPLIED VIA SYRUP BUNDLE. REFER TO 11/P6.0. SEE SCOPE OF WORK FOR RESPONSIBILITIES.

FILTERED WATER ISOMETRIC NTS 2

1. ENTIRE RUN OF DRAIN LINES ON INLET TO GREASE TRAP SHALL BE SCHEDULE 40 PVC OR NO HUB CAST IRON AS REQUIRED BY CODE.
2. 1/2" HOT AND COLD WATER DOWN IN WALL TO LAVATORY, ROUTE 1/2" HOT WATER UP TO CEILING SPACE. INSTALLATION SHALL BE IN COMPLIANCE OT 2015 IECC. PROVIDE POINT OF USE MIXING VALVE BELOW FIXTURE AND EXTEMD TEMPERED WATER TO LAVATORY.
3. 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
4. THERMOSTATIC MIXING VALVE.
5. REDUCED PRESSURE BACKFLOW PREVENTER PER LOCAL UTILITY 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. GAS PIPING AT ROOF TOP UNIT FOR THROUGH THE BASE PIPE CONNECTION. SHUT-OFF VALVE SHALL BE LOCATED OUTSIDE OF THE UNIT.
8. PROVIDE NO HUB CAST IRON PIPE FOR FIRST 10 FEET OF PIPE FROM CONNECTION TO FLOOR SINK FS-2
9. PIPE T&P RELIEF VALVE TO OUTSIDE OF BUILDING OR TO HUB DRAIN, RUN FULL SIZE PIPE FROM VALVE WITH TYPE "K" COPPER TUBING.
10. GAS SHUT-OFF VALVE IN CEILING SPACE BY G.C.
11. 1/2" HOT WATER PIPE DOWN IN WALL. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO TB RETHERMALIZER.
12. 1/2" COLD WATER CONNECT TO REVERSE OSMOSIS FILTER AND 1/2" FILTERED WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF ON CW PIPE PRIOR TO CONNECTION TO FILTER.
13. 1/2" RO WATER FROM REVERSE OSMOSIS FILTER DOWN IN UTILITY CHASE OF M.A.P.S. LINE. PROVIDE SHUT-OFF VALVE ON FW PIPE IN CEILING NEAR UTILITY CHASE.
14. 1/2" COLD WATER TO HOT WATER SYSTEM FILTER.
15. TEE OFF 3/8" LINE FROM DRIVE THRU BEVERAGE DISPENSER FILTERED WATER SUPPLY. SEE DETAIL 8/P6.0.
16. 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.
17. ROUTE 1/2" HOT WATER RETURN AND CONNECT TO COLD WATER SUPPLY TO WATER HEATER.

KEYNOTES - ISOMETRICS NTS 3

GPD GROUP
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AKRON, OH 44311
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CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	QF
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
RISER DIAGRAMS

P5.0

PLOT DATE: 6/14/2021 8:39:55 AM

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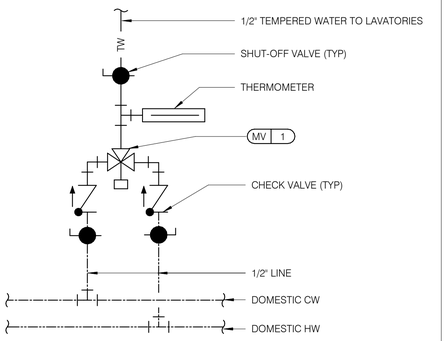
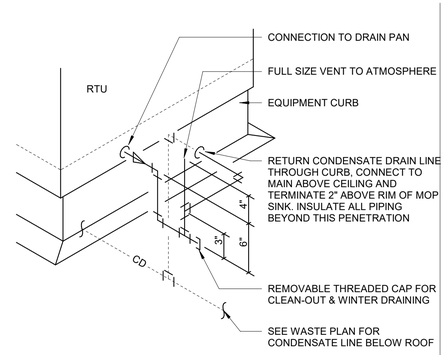
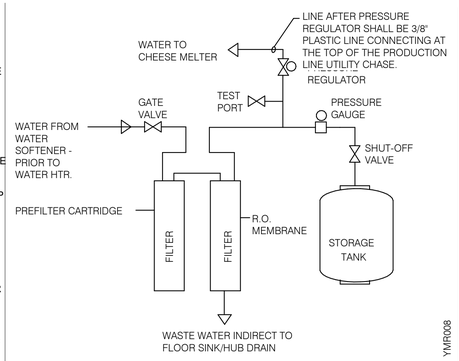


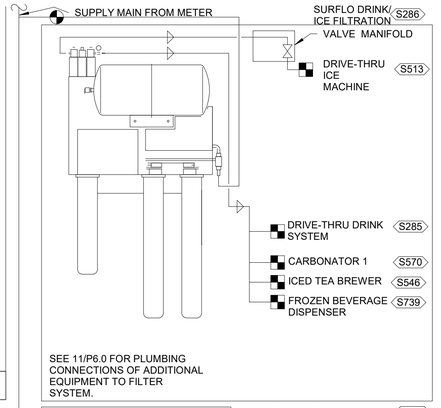
TEMPERING VALVE NTS 11



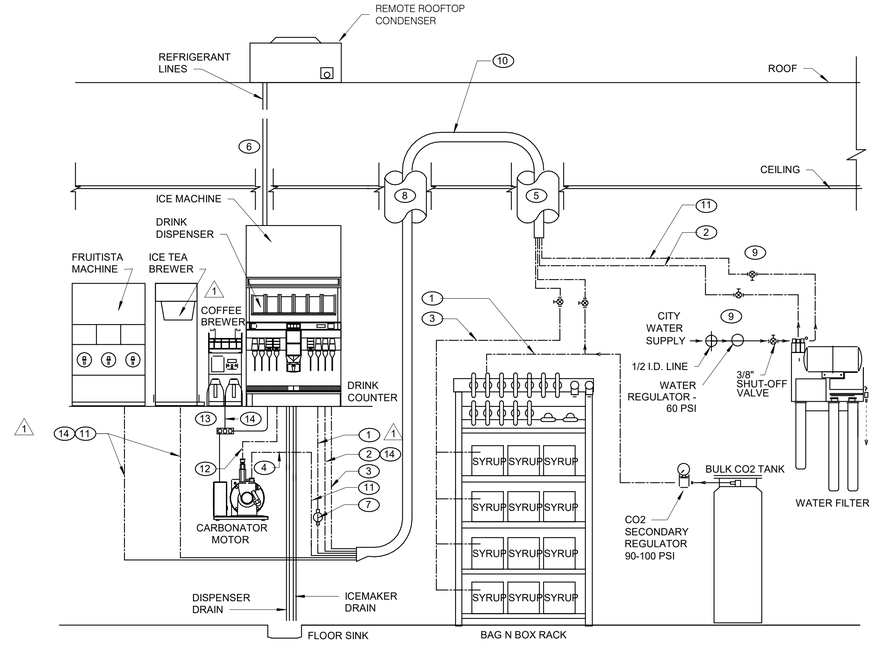
RTU CONDENSATE NTS 10



REVERSE OSMOSIS SYSTEM NTS 9



WATER FILTRATION SCHEMATIC NTS 3



GENERAL NOTES:

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

NOTE INSTALL ELECTRICAL, WATER, AND DRAIN IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL CODES.

EQUIPMENT RATING:
ED250 DISPENSER - 115V, 3.5 AMPS
ED300 DISPENSER - 115V, 4.0 AMPS
CARBONATOR - 115V, 60 Hz, 7.0 AMPS
BOOSTER ASSEMBLY - 115V. 60 Hz, 6.5 AMPS

KEY NOTES:

1. 3/8" Co2 LINE
2. 3/8" FILTERED WATER LINE - ICE MACHINES
3. 3/8" SYRUP LINES
4. REDUCED PRESSURE BACKFLOW PREVENTER
5. BUNDLED TUBING CEILING PENETRATION. SEE DETAIL 1/A6.6
6. STAINLESS CHASE SURFACE MOUNTED FROM CEILING TO TOP OF ICE MACHINE
7. PRE-SET Co2 REGULATOR
8. RECESSED 4" DIA. PVC VERTICAL CHASE FOR DRINK SYSTEM BUNDLED TUBING SYSTEM.
9. 3/8" SHUT OFF VALVES BARB FITTINGS
10. DRINK SYSTEM BUNDLED TUBING. SEE DETAIL 6/P6.0
11. 3/8" FILTERED WATERLINE - ICE TEA, FRUITISTA & DRINK MACHINES
12. 3/8" LINE FOR PRESSURIZE FILTERED WATER
13. ELECTRICAL FOR DRINK SYSTEM. SEE SHEET E3.0
14. ASSE 1022 DUAL CHECK VALVE BACKFLOW PREVENTER

TPS030

DRINK SYSTEM SCHEMATIC NTS 8

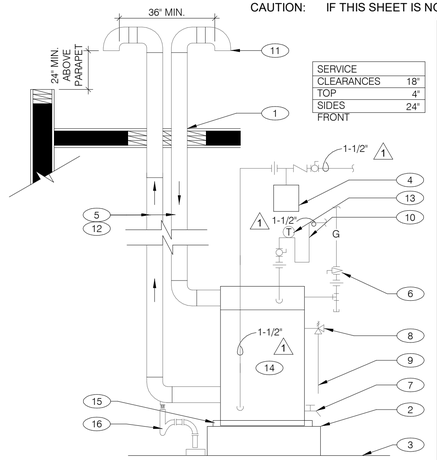
QTY	MODEL #	DESCRIPTION
1	EF100T199E3N	BWC HIGH EFFICIENCY COMMERCIAL WATER HEATER
1	MFK7	MANIFOLD KIT *
1	DET12	EXPANSION TANK
1	HAL	ALARM LIGHT W/ INSTALLATION INSTRUCTIONS
1	PK100	STAND

* THE FOLLOWING IS INCLUDED IN THE MANIFOLD KIT:

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

YMF023S

WATER HEATER SCHEDULE NTS 4



1. FLUE THRU ROOF - SEE DETAIL 12/A6.0
2. WATER HEATER PLATFORM PROVIDED BY W.H. MANUFACTURER.
3. FINISHED FLOOR
4. THERMAL EXPANSION TANK BY WATTS - SEE PLUMBING SCHEDULE - STRAP AND SUPPORT TO WALL
5. SCHEDULE 40 PVC, MINIMIZE TURNS AND TRANSITIONS.
6. GAS COCK VALVE WITH FULL SIZE DIRT LEG
7. 3/4" DRAIN WITH VALVE & CAP
8. COMBINATION TEMPERATURE AND PRESSURE RELIEF PER LOCAL CODE
9. RUN T&P DISCHARGE FULL SIZE TO HUB DRAIN
10. 22" DEEP HEAT TRAP
11. AIR INTAKE W/ INTERNAL INSECT SCREEN PROVIDED BY MFR.
12. SUPPORT VENT PIPE RUNS EVERY 5'-0" VERTICALLY AND EVERY 3'-0" HORIZONTALLY.
13. OUTLET THERMOMETER PROVIDED BY MFR. LOCATE WITHIN 12" OF W.H. OUTLET.
14. SEE DETAIL 7/P6.0 FOR SCHEDULE OF ITEMS PROVIDED BY W.H. MFR.
15. DRAIN PAN TO HUB DRAIN.
16. P-TRAP AND LINE TO DRAIN PROVIDED BY MANUFACTURER. LEAVE AIR GAP BETWEEN BOTTOM OF TRAP AND DRAIN.

WATER HEATER N.T.S. 2

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

FILTER LINE F1 SUPPLIES BUNDLED TUBE BY PEPSI

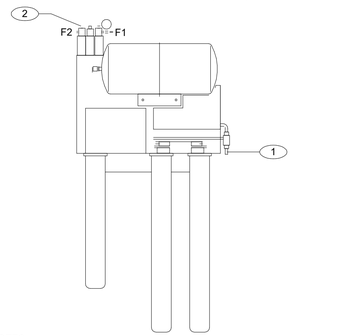
1. DRIVE THRU DRINK STATION
2. SELF SERVE DRINK STATION

FILTER LINE F2 SUPPLIES BUNDLED TUBE BY PEPSI

1. ICE MACHINES

WB2-M3-22-003

WATER BOOST MODULAR FILTRATION (WBMF) SYSTEM



KEY NOTES

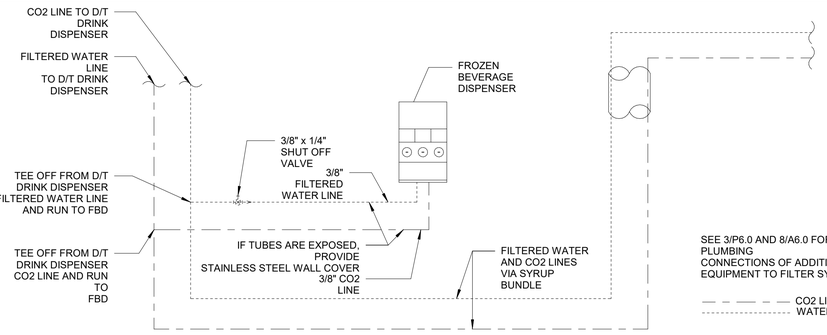
1. 3/4" COLD WATER INLET TO 1/2" COPPER LINE AND FITTINGS AT FILTER.
2. 3/4" OUTLET W/ INTEGRAL BACKFLOW PREVENTER, EQUAL TO WATTS REGULATOR CO. SERIES 007 AND SERVICE BALL VALVE.

GENERAL NOTES

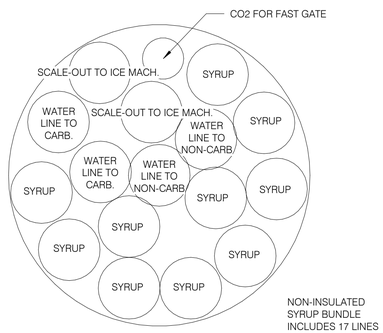
1. OVERALL DIMENSIONS 21" WIDE x 12" DEEP x 48 1/2" HIGH
2. SEE SCOPE OF WORK FOR ADDITIONAL INFORMATION.
3. INSTALLATION MUST COMPLY WITH STATE OR LOCAL PLUMBING CODES.
4. THE UNIT MUST BE PROTECTED AGAINST FREEZING.
5. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
6. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
7. SEE SHT. A2.0 FOR LOCATION.

TPW001

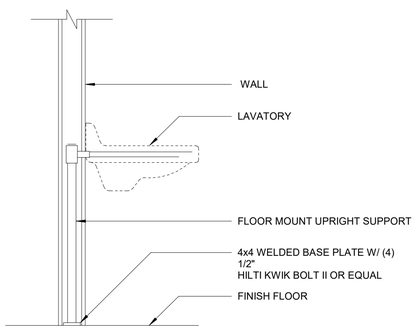
WATER FILTER SYSTEM NTS 1



FBD DRINK SYSTEM DETAIL NTS 7



SYRUP BUNDLE CONFIGURATION NTS 6



LAVATORY SUPPORT NTS 5

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: QF
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
PLUMBING DETAILS

P6.0

PLOT DATE: 6/14/2021 8:39:57 AM

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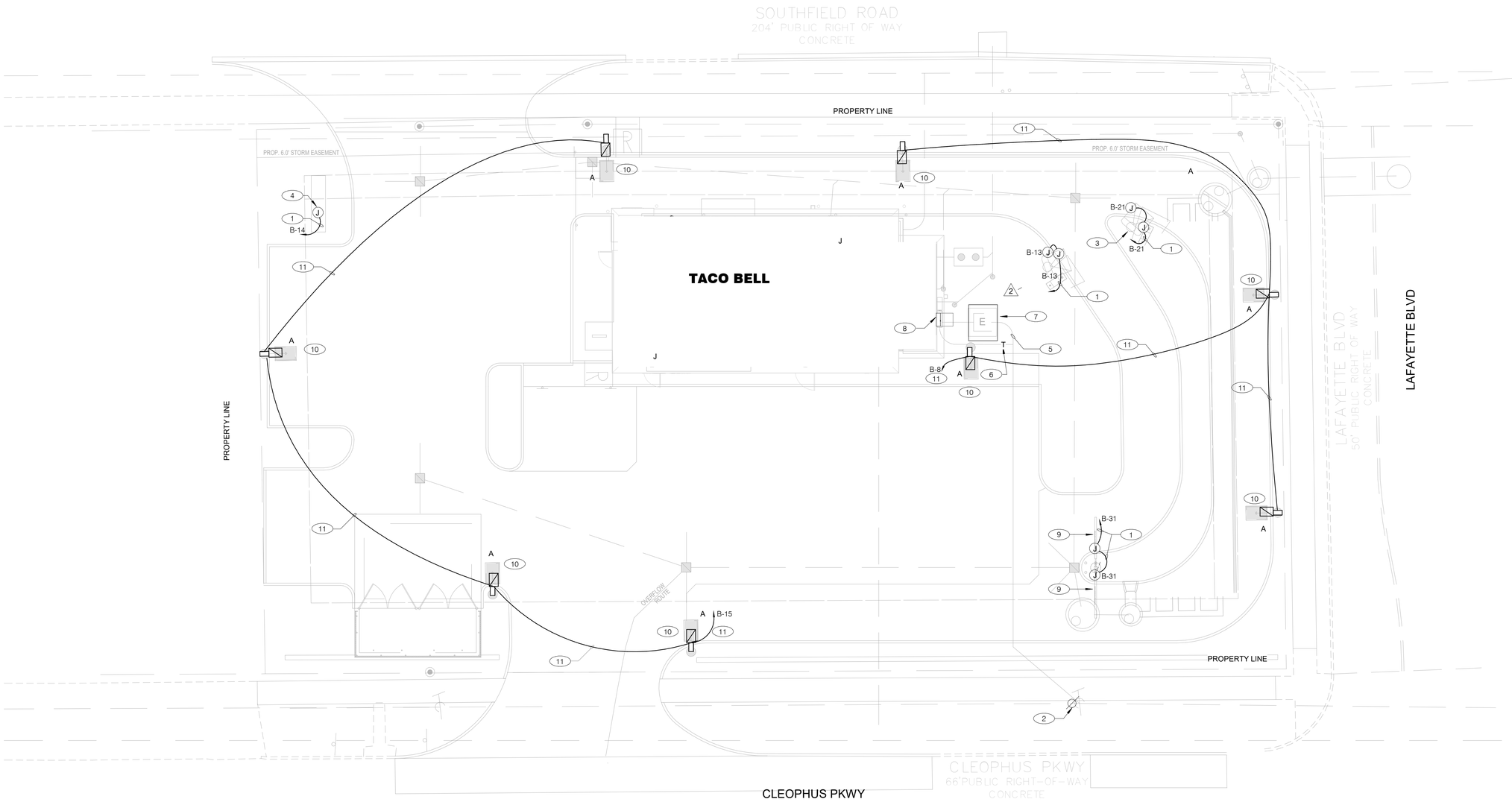

Luminaire Schedule			
Symbol	Qty	Label	Description
	8	A	MRM-LED-18L-SIL-FT-40-70CRI-IL WITH REAR HOUSING SHIELD MOUNTED AT 25'

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
-	N.A.	N.A.	N.A.	N.A.	N.A.
DRIVE THRU SURFACE	3.64	5.4	1.7	2.14	3.18
PARKING LOT SURFACE	3.53	5.7	0.9	3.92	6.33

CONDUIT SCHEDULE

DEVICE	POWER	DATA
DIRECTIONAL	(1) 3/4"	-
SPEAKER POST	(1) 1"	(1) 1"
MENUBOARD	(1) 1"	(2) 1"
PREVIEW BOARD (OPTIONAL)	(1) 1"	(2) 1"

N

1. 3/4" C. - 2 #10, #10 GRD. (TYP. FOR ENTIRE CIRCUIT.)
2. EXISTING UTILITY POWER POLE AND TELEPHONE DROP. PROPOSED ELECTRIC AND TELECOMMUNICATIONS SERVICE CONNECTION SHALL BE COORDINATED WITH THE UTILITY COMPANY. REFER TO CIVIL FOR ROUTING.
3. DIGITAL MENU/CONFIRMATION BOARD. REFER TO CONDUIT SCHEDULE FOR CONDUIT SIZE AND QUANTITY. REFER TO DETAILS ON CIVIL.
4. LED PYLON SIGN.
5. UNDERGROUND ELECTRIC SERVICE TO UTILITY CO. TRANSFORMER. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
6. PROVIDE SEPARATE 2" TELEPHONE AND CABLE CONDUITS TO CONNECTION ON SITE . REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
7. PROPOSED ELECTRICAL TRANSFORMER PER ELECTRICAL COMPANY SPECIFICATIONS. E.C. SHALL VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER.
8. PROPOSED LOCATION OF SWICHGEAR (MSB). COORDINATE EXACT LOCATION IN FIELD.
9. CLEARANCE BAR. REFER TO DETAILS 2 & 3/C1.1.
10. LED SITE LIGHTING, REFER TO CIVIL DRAWINGS, TYP. REFER TO DETAIL ON STRUCTURAL PLAN.
11. 1" C. - 2 #8, #8 GND.

ELECTRICAL SITE PLAN 1" = 10'-0" | **1**

	DATE	REMARKS
2	05.24.21	Dining Room Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	AS
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
SITE ELECTRICAL PLAN

E1.0

PLOT DATE: 6/14/2021 8:39:12 AM

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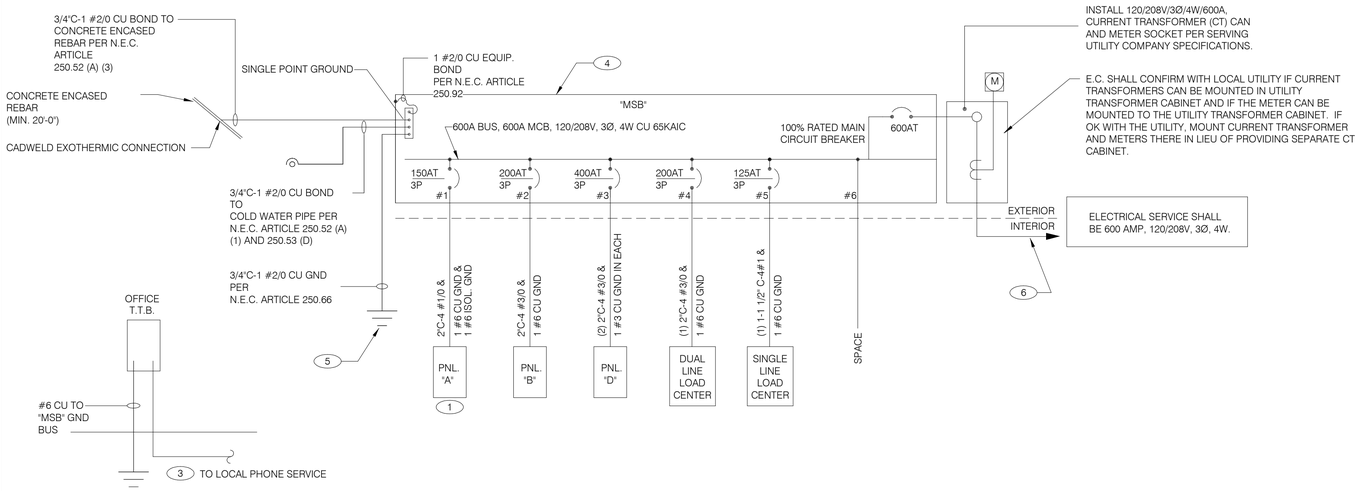
NOT USED N.T.S.

SINGLE LINE DIAGRAM NTS A



ELECTRICAL LEGEND NTS D

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

ONE LINE DIAGRAM GENERAL NOTES NTS C

1. THERE SHALL BE U.L. LISTED SERIES RATING BETWEEN CKT. BREAKERS LOCATED AT THE DISTRIBUTION PANEL AND THE DOWNSTREAM 10k A.I.C. RATED CIRCUIT BREAKERS AT PANELS "A", "B" DUAL-LINE EQUIPMENT CABINET BASED ON THE MAXIMUM FAULT CURRENT AS DETERMINED AT THE SERVICE ENTRANCE AND DOWNSTREAM 22K A.I.C. RATED CIRCUIT BREAKERS AT PANEL "D."
2. SEE SCOPE OF WORK FOR DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL OTHER ASPECTS OF THE PROJECT
3. IF UTILITY COMPANY PROPOSES A SERVICE DIFFERENT FROM THAT ILLUSTRATED, CONTACT THE CONSTRUCTION ENGINEER FOR A DECISION BEFORE PROCEEDING. COORDINATE AVAILABLE SHORT CIRCUIT CURRENT W/ LOCAL UTILITY AND PROVIDE CIRCUIT BREAKERS W/ SUFFICIENT INTERRUPTING CAPACITY.
4. COORDINATE CT METERING COMPARTMENT SIZE WITH LOCAL UTILITY COMPANY. THE LOCAL ELECTRICAL INSPECTOR AND THE NATIONAL ELECTRICAL CODE TO MEET ALL REQUIREMENTS BEFORE PURCHASE AND INSTALLATION. NEW METER BY LOCAL UTILITY COMPANY.
5. ALL WIRING SHOWN SHALL BE COPPER TYPE "THHN/THWN" EXCEPT FEEDERS FROM UTILITY TRANSFORMER TO SWITCH BOARD MAY BE ALUMINUM.
6. ARMOR CABLE ACCEPTABLE FOR THE LAST 6'-0" FROM A JUNCTION BOX TO LIGHT FIXTURES. ARMOR CABLE IS NOT ALLOWED FOR NON-ACCESSIBLE FLOORS, WALLS AND CEILINGS.

ONE LINE DIAGRAM KEY NOTES NTS B

(1) WIRE ISOLATED GROUND TO ISOLATION GROUND BUS IN PANEL AND LAND ISOLATED GROUND TO SINGLE POINT GROUND. "DO NOT COMBINE COMMON GND TO ISOLATED GROUND". REF DETAIL 6/E3.1.

(2) NOT USED.

(3) PROVIDE 2" CONDUIT STUBBED INTO BUILDING FROM LATERAL POLE FOR TELEPHONE.

(4) VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH THE UTILITY COMPANY. IF THE AIC RATING AS INDICATED IS NOT SUFFICIENT, CONTACT PROJECT MANAGER AND ENGINEER PRIOR TO BID/PRICING TO UPDATE EQUIPMENT RATING.

(5) (3) 5/8" DIA. x 10'-0" COPPER CLAD GROUND RODS. INSTALL 10'-0" APART AND CONNECT GROUND SYSTEM PER N.E.C. ARTICLE 250

(6) PROVIDE UNDERGROUND SERVICE LATERAL TO UTILITY TRANSFORMER PER SERVING UTILITY COMPANY SPECIFICATIONS. 4#350 KCMIL IN EACH OF (2) 3"C. TO PAD MOUNT TRANSFORMER. GC/ELECT. CONTRACTOR SHALL COORDINATE SERVICE POLES PER LOCAL UTILITY CODE. IF ALUMINUM CONDUCTORS ARE USED PROVIDE 4#500 KCMIL IN EACH (2) 3-1/3"C.

	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: AS
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0

ELECTRICAL ONE LINE DIAGRAM AND LEGEND

E2.0

PLOT DATE: 6/14/2021 8:39:13 AM

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

Switchboard: MSB

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 65 KAIC
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 600 A
Enclosure: NEMA-3R | **MCB Rating:** 600 A

Notes: PROVIDE 100% RATED MAIN CIRCUIT BREAKER

CKT	Circuit Description	WIRE SIZE	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANELBOARD A	1/0	3	225 A	150 A	29452 VA	--
2	PANELBOARD B	3/0	3	225 A	200 A	46674 VA	--
3	DUAL COOK LINE PANEL	3/0	3	400 A	200 A	52000 VA	
4	PANELBOARD D	3/0	3	400 A	400 A	28439 VA	--
5	SINGLE COOK LINE	1	3	400 A	125 A	28800 VA	
6	Space		--	--	--	0 VA	--
					Total Conn. Load:	185545 VA	
					Total Amps:	515 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1780 VA	100.00%	1780 VA		
Kitchen	6444 VA	65.00%	4189 VA	**Total Conn. Load:**	185545 VA
Lighting	5898 VA	125.00%	7372 VA	**Total Est. Demand:**	184763 VA
Other	33120 VA	100.00%	33120 VA	**Total Conn. Current:**	515 A
Power	116628 VA	100.00%	116628 VA	**Total Est. Demand Current:**	513 A
Receptacle	6236 VA	100.00%	6236 VA		
Refrigeration	15439 VA	100.00%	15439 VA		

Notes:

Panel: A

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** SERIES
Supply From: MSB | **Phases:** 3 | **Mains Type:** M.L.O.
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:**

Notes:

NOTE:	CKT	Circuit Description	Wire Size	Trip	Poles	A		B		C		Poles	Trip	Wire Size	Circuit Description	CKT	NOTE:
	1	E-107-1 HOOD EXHAUS...	12	20 A	1	1120 VA	300 VA					1	20 A	12	F-040 OFFICE COMPUTER	2	IG
GF	3	S-546 ICED TEA	12	20 A	1			240 VA	900 VA			1	20 A	12	DRIVE THRU POS/ORDE...	4	IG
	5	OFFICE QUAD RECEPT.	12	20 A	1					680 VA	480 VA	1	20 A	12	S-546 BREWER	6	GF
(1)	7	J-BOX SEC. SYS./DVR	12	20 A	1	1180 VA	180 VA					1	20 A	12	U-011	8	
GF	9	S-026 HEAT CABINET	12	20 A	1			1800 VA	540 VA			1	20 A	12	RECEPTACLES - OFFICE	10	
(1)	11	U-052 SECURITY SYSTEM	12	20 A	1					860 VA	864 VA	1	20 A	12	S-204 D/T TIMING...	12	
	13	F-090	12	20 A	1	1540 VA	1140 VA					1	20 A	12	R-009 FULL HEIGHT...	14	GF
GF	15	BEVERAGE DISPENSER...	12	15 A	1			1428 VA	2013 VA			2	30 A	10	P-452 HOT WATER SYSTEM	16	GF
GF	17	P-452 HOT WATER SYSTEM	10	30 A	2					2013 VA	2013 VA					18	
	19					2013 VA	240 VA					1	20 A	12	C-107 RETHERMALIZER	20	GF (3)
GF	21	BUG LIGHT	12	20 A	1			216 VA	0 VA			1	0 A		SHUNT TRIP SPACE	22	ST
(3) GF	23	C-026 FRYER	12	20 A	1					972 VA	100 VA	1	15 A	12	C-400 COOK TIMER	24	GF
ST	25	SHUNT TRIP SPACE		0 A	1	0 VA	500 VA					1	20 A	12	INTERIOR DIGITAL...	26	
	27	INTERIOR DIG....	12	20 A	1			500 VA	500 VA			1	20 A	12	OCB SWITCH	28	
IG	29	DINING POS ENTRY 2	12	20 A	1					1040 VA	1800 VA	1	20 A	12	L-045	30	GF
	31	DRIVE THRU MONITORS	12	20 A	1	180 VA	360 VA					1	20 A	12	SAFE W/TOUCHSCREE...	32	
GF	33	RECIRC. PUMP	12	20 A	1			200 VA	1540 VA			1	20 A	12	DINING POS ENTRY 1	34	IG
GF	35	Spare		20 A	1					0 VA	0 VA	1	20 A	12	Spare	36	GF
GF	37	Spare		20 A	1	0 VA	0 VA					1	20 A	12	Spare	38	GF
	39	Spare	12	20 A	1			0 VA	0 VA			1	20 A	12	Spare	40	
	41	Spare	12	20 A	1					0 VA	0 VA	1	20 A	12	Spare	42	
					Total Load:	8753 VA		9877 VA		10822 VA							
					Total Amps:	73 A		84 A		92 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen	2568 VA	100.00%	2568 VA		
Power	24064 VA	100.00%	24064 VA	**Total Connected Load:**	29632 VA
Receptacle	3000 VA	100.00%	3000 VA	**Total Estimated Demand:**	29632 VA
				Total Connected Current:	82 A
				Total Estimated Demand Current:	82 A
				System Voltage:	120/208 Wye

Notes:

CIRCUIT BREAKER/MISC. ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE
IG - ISOLATED GROUND

Panel: B

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** SERIES
Supply From: MSB | **Phases:** 3 | **Mains Type:** M.L.O.
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:**

Notes:

NOTE:	CKT	Circuit Description	Wire Size	Trip	Poles	A		B		C		Poles	Trip	Wire Size	Circuit Description	CKT	NOTE:
(2)	1	DINING LTS	12	20 A	1	111 VA	1500 VA					1	20 A	12	EXTERIOR SIGNAGE	2	(2)
(2)	3	EXTERIOR...	12	20 A	1			180 VA	216 VA			1	20 A	12	UTILITY RECEPT	4	
(2)	5	KITCHEN/ BOH/...	12	20 A	1					1201 VA	94 VA	1	20 A	12	EM. LTS INT/EXT, EX....	6	
	7	LTG - SHOW WINDOW	12	20 A	1	600 VA	756 VA					1	20 A	8	SITE POLE LIGHTS	8	(2)
	9	LTG - SHOW WINDOW	12	20 A	1			300 VA	500 VA			1	20 A	12	TBCCB	10	
(2)	11	LTG - COOLER &...	12	20 A	1					800 VA	760 VA	1	20 A	12	E-107-2 HOOD SUPP.	12	(1)
	13	SPEAKER/ORDER POINT	10	20 A	1	1000 VA	500 VA					1	20 A	10	PYLON SIGN	14	(2)
(2)	15	SITE POLE LIGHTS	8	20 A	1			756 VA	500 VA			1	20 A	12	CANOPY LIGHTING	16	(2)
	17	Spare		20 A	1					0 VA	0 VA	1	20 A	12	Spare	18	
	19	Spare		20 A	1	0 VA	0 VA					1	20 A	12	Spare	20	
	21	MENU BOARD	10	20 A	1			1000 VA	0 VA			--	--		Space	22	
	23	Space		--	--					0 VA	0 VA	--	--		Space	24	
	25	Space		--	--	0 VA	0 VA					1	20 A		Spare	26	
	27	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	28	
	29	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	30	
	31	CLEARANCE BAR	10	20 A	1	1000 VA	0 VA					1	20 A		Spare	32	
(2)	33	EF-1	12	20 A	1			1120 VA	0 VA			1	20 A		Spare	34	
(2)	35	EF-2	12	20 A	1					660 VA	0 VA	1	20 A		Spare	36	
	37	Spare	6	20 A	1	0 VA	11040 VA					3	100 A	1	RTU-1	38	
	39	Spare		20 A	1			0 VA	11040 VA							40	(2)
	41	Spare		20 A	1					0 VA	11040 VA					42	
					Total Load:	16507 VA		15612 VA		14555 VA							
					Total Amps:	139 A		131 A		121 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1780 VA	100.00%	1780 VA		
Lighting	5898 VA	125.00%	7372 VA	**Total Connected Load:**	46674 VA
Other	33120 VA	100.00%	33120 VA	**Total Estimated Demand:**	48148 VA
Power	4760 VA	100.00%	4760 VA	**Total Connected Current:**	130 A
Receptacle	1116 VA	100.00%	1116 VA	**Total Estimated Demand Current:**	134 A
				System Voltage:	120/208 Wye

Notes:

CIRCUIT BREAKER ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE

NOTE:

PARKING LOT LIGHTING AND SIGNAGE SHALL PASS THROUGH TBCCB

NOTE TO CONTRACTORS

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

GENERAL NOTE:

FOR PARKING LOT (SITE) LIGHTS AND OUTSIDE SIGNS: PROVIDE (5) 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 AND 6.1.

(3) PROVIDE GFI BREAKER. CIRCUIT TO BE WIRED THROUGH TBANS. REFER TO SHEET E7.1.

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
2	05.24.21	Dining Room Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: AS
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
ELECTRICAL SCHEDULES

E2.1

PLOT DATE: 6/14/2021 8:39:15 AM

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COMMERCIAL KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT IDENTIFICATION			EQUIPMENT ELECTRICAL CHARACTERISTICS					EQUIPMENT CIRCUIT				EQUIPMENT DISCONNET					
TAG	TYPE	EQUIPMENT NAME	V/Ph - WATTS	FLA/RLA	MCA	TIME DELAY FUSE	INVERSE-TIME BREAKER	SETS	BRANCH CIRCUIT	WIRE TYPE	CONDUIT TYPE	TYPE	SIZE	NEMA	SUPPLIED BY	INSTALLED BY	NOTES
B-223	O	B-223 WATER HEATER IGNITION	120 V/1-744 VA	6.2	7.2	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
B-381	O	CO2 CARBON DIOXIDE SENSOR / WARNING	120 V/1-156 VA	1.0	1.3	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
C-026	KR	FRYER	120 V/1-972 VA	8.1	9.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	1,2
C-107	O	RETHERMALIZER	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	1,2
C-400	O	COOK TIMER	120 V/1-100 VA	0.3	0.4	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
DCL	O	DUAL COOK LINE	208 V/3-52000 VA	145	145	200	200	1	4#3/0 W/#6 G IN 2"C	CU	ST	DIRECT	200	J-BOX	ES	ES	8
E-107-1	O	HOOD FIRE SUPPRESSION SYSTEM	120 V/1-760 VA	6.3	7.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
E-107-2	O	HOOD EXHAUST	120 V/1-1120 VA	9.8	12.3	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
E-107-15	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-360 VA	1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
E-107-16	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-360 VA	1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-040	O	OFFICE COMPUTER	120 V/1-300 VA	2.5	3.1	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-050	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-090	O	UPS	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-174	O	SAFE W/TOUCHSCREEN CONTROLS	120 V/1-360 VA	3.0	3.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
IR-01	O	IRRIGATION TIMER	120 V/1-500 VA	2.0	3.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
L-043	O	INTERIOR ROTATING MENU BOARD & REMOTE ALARM LT	120 V/1-500 VA	9.0	11.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
L-044	KR	WARMER R TO L	120 V/1-1800 VA	16.0	16.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
L-045	KR	WARMER R TO L	120 V/1-1800 VA	16.0	16.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
N-043	KR	POWER SOAK	208 V/2-1800 VA	11.4	14.25	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	J-BOX	ES	ES	8
N-044	O	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
P-452	KR	HOT WATER SYSTEM	208 V/2-4026 VA	19.6	24.5	30	30	1	#10 W/#10 G IN 3/4"C	CU	ST	C&P	30	6-30	ES	ES	2
R-009	KM	R-009 FULL HEIGHT FREEZER	120 V/1-1140 VA	9.5	11.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-204	O	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-285	KM	S-284 BEVERAGE DISPENSER (D/T)	120 V/1-1428 VA	11.9	14.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-286	O	WATER FILTRATION SYSTEM	120 V/1-400 VA	2.0	2.4	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-513	KM	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
S-540	KM	PEPSI BOOSTER TANK	120 V/1-564 VA	4.7	5.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-544	O	ICED TEA	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-546	O	BREWER	120 V/1-480 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-570	KM	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
S-739	KM	S-739 FROZEN BEVERAGE DISPENSER	208 V/2-1800 VA	15	15	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
SCL	O	SINGLE COOK LINE	208 V/3-28800 VA	80	80	125	125	1	4#1 W/#6 G IN 2"C	CU	ST	DIRECT	200	J-BOX	ES	ES	8
U-011	O	BASE STATION - D/T COMM. SYSTEM	120 V/1-180 VA	2	.24	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-050	O	CREDIT CARD SATELLITE ROUTER JUNCTION		1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-061	O	RECEIPT PRINTER		1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-070	O	CREDIT CARD READER	120 V/1-180 VA	1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-100	O	POS/ORDER ENTRY TERMINAL	120 V/1-360 VA	-	-	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
W-XX1	KM	W-075-2 WALK-IN FREEZER	208 V/3-0 VA	11.6	14.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	J-BOX	ES	ES	2

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

NOTES: 1 - REQUIRES SHUNT TRIP PROTECTION
2 - CORD & PLUG SUPPLIED AND INSTALLED BY ES. EC SHALL PROVIDE RECEPTACLE.
3 - CORD & PLUG SUPPLIED AND INSTALLED BY ES. RECEPTACLE SUPPLIED BY ES AND INSTALLED BY EC.
4 - CORD, PLUG & RECEPTACLE SUPPLIED AND INSTALLED BY EC.
5 - SINGLE PHASE, THREE WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
6 - THREE PHASE, FOUR WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
7 - OUTLETS SUPPLIED AND INSTALLED BY ES. CONDUIT & WIRING PROVIDED BY EC.
8 - HARDWIRED CONNECTION BY E.C.

ALL NOTES MAY NOT BE USED. COORDINATE ALL EQUIPMENT CONNECTIONS WITH VENDOR

REFER TO ARCHITECTURAL EQUIPMENT SCHEDULE FOR ALL KITCHEN EQUIPMENT AND FINAL COORDINATION

Panel: D

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

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

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

Notes:

NOTE:	CKT	Circuit Description	Wire Size	Trip	Poles	A		B		C		Poles	Trip	Wire Size	Circuit Description	CKT	NOTE:
	1	CARBONATOR	12	15 A	1	276 VA	0 VA					1	20 A		Spare	2	
GF	3	B-223 WATER HEATER...	12	20 A	1			744 VA	1000 VA			1	20 A	12	ALTERNATE PAYMENT...	4	
	5	Spare		20 A	1					0 VA	680 VA	1	20 A	12	IRRIGATION TIMER AND...	6	
GF	7	S-540 PEPSI TANK	12	20 A	1	564 VA	500 VA					1	20 A	12	MUSIC SYSTEM J-BOX...	8	
	9	RECEPTACLES - ROOF	12	20 A	1			540 VA	900 VA			2	20 A	12	S-739 FROZEN BEV. DISP.	10	GF
	11	CONV. RECEPTACLES	12	20 A	1					900 VA	900 VA					12	
	13	GEN. PURP....	12	20 A	1	1440 VA	1600 VA					2	20 A	12	ICE MAKER CONDENSER D/T	14	GF
	15	Spare		20 A	1			0 VA	1600 VA							16	
GF	17	ICE MAKER CONDENSER	12	20 A	2					1600 VA	0 VA	1	20 A		Spare	18	
	19					1600 VA	0 VA					1	20 A		Spare	20	
GF	21	S-286 WTR. FILT. SYSTEM	12	20 A	1			400 VA	900 VA			2	20 A	12	POWER SOAK	22	GF
GF	23	B-381 CO2 MONITOR	12	20 A	1					156 VA	900 VA					24	
	25	Power		20 A	1	1700 VA	500 VA					1	20 A	12	MUSIC SYSTEM (MUZAK)	26	
GF	27	Spare		20 A	1			0 VA	1620 VA							28	
	29	Spare		20 A	1					0 VA	1620 VA	3	20 A	12	WALK-IN COOLER	30	GF
	31	Spare		20 A	1	0 VA	1620 VA									32	
	33	Spare		20 A	1			0 VA	1393 VA							34	
	35	Spare		20 A	1					0 VA	1393 VA	3	20 A	12	WALK-IN FREEZER	36	GF
	37	Spare		20 A	1	0 VA	1393 VA									38	
	39	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	40	GF
	41	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	42	
				Total Load:		11193 VA		9097 VA		8149 VA							
				Total Amps:		94 A		77 A		68 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen	3876 VA	80.00%	3101 VA		
Power	7004 VA	100.00%	7004 VA	**Total Connected Load:**	28439 VA
Receptacle	2120 VA	100.00%	2120 VA	**Total Estimated Demand:**	27664 VA
Refrigeration	15439 VA	100.00%	15439 VA	**Total Connected Current:**	79 A
				Total Estimated Demand Current:	77 A
				System Voltage:	120/208 Wye

Notes:

CIRCUIT BREAKER ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE

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CONTRACT DATE: 12.1.20
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BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: AS
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
ELECTRICAL SCHEDULES

E2.2

PLOT DATE: 6/14/2021 8:39:17 AM

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Professional Corporation
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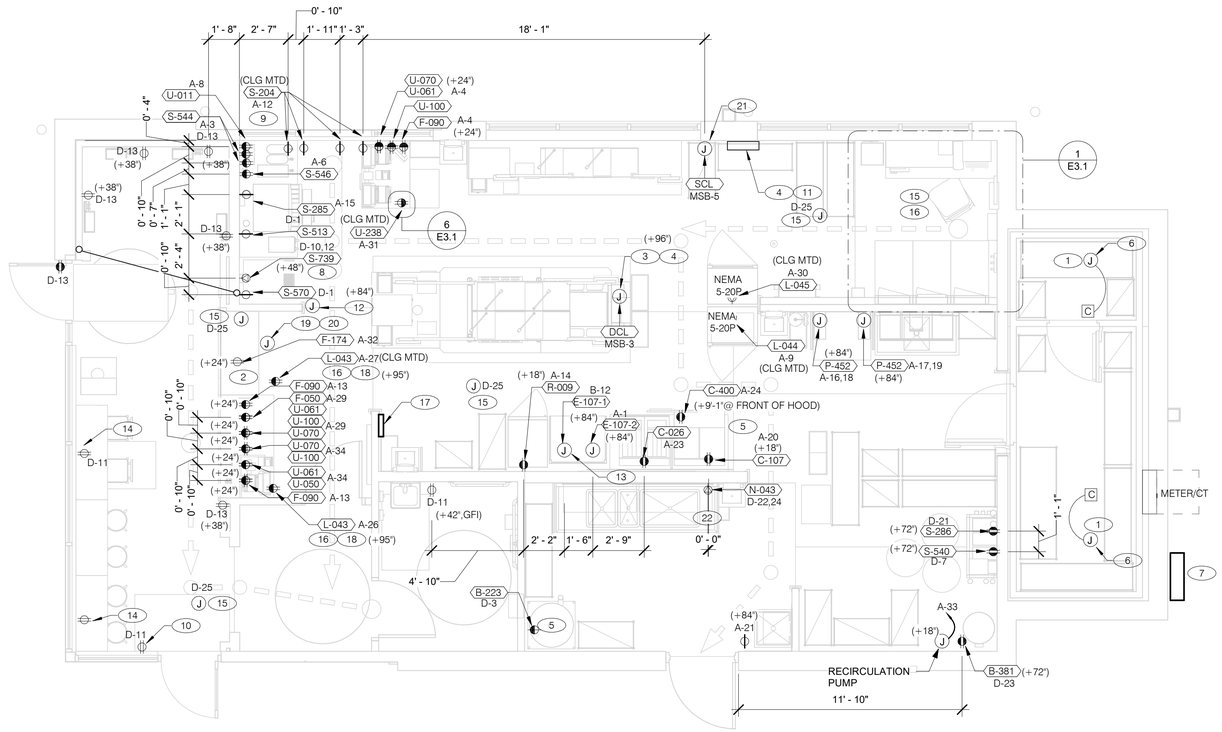

NOTE:

5mA GFCI BREAKERS MUST BE USED WHERE OUTLETS REQUIRING GFCI PROTECTION ARE NOT ACCESSIBLE FOR COMPLIANCE WITH NEC 210.8. WHERE GFCI PROTECTION AND SHUNT TRIP IS REQUIRED, THE CIRCUIT SHALL HAVE A GFCI BREAKER AND PASS THROUGH THE TBANS PANEL.REFER TO DETAILS IN E7.0 AND E7.1.

N

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

GENERAL NOTES - ELECTRICAL POWER PLAN NTS C

A. ALL DIMENSIONS TO J-BOXES ARE FROM FACE OF STUD TO CENTER OF BOX, U.O.N.

B. ALL CONDUIT DROPS ARE INSIDE WALLS U.O.N. SEE ARCH. DWGS FOR WALL DIMS.

C. ALL J-BOX CIRCUITS, CONDUITS, FIXTURES, ETC. SHALL BE AS INDICATED ON THE ELECT. DWGS AND SPECS.

D. CONTRACTOR SHALL VERIFY UNDERGROUND CONDUIT LOCATIONS PRIOR TO POURING SLAB.

E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ELECT. ROUGH-INS WITH INFO PROVIDED ON THE ARCH. AND STRUCT. DWGS AND THE EQUIPMENT ACTUALLY SUPPLIED, AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS HEREIN.

F. LOCATIONS OF ALL OUTLETS MAY BE RELOCATED TO NEAREST STUD. DO NOT CUT INTO STUDS.

G. FOR EXACT LOCATIONS OF KITCHEN & MECHANICAL EQUIPMENT AND POINTS OF CONNECTION, REFER TO KITCHEN & MECHANICAL EQUIPMENT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.

H. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY NEC.

I. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER, DISCONNECT SWITCH, STARTER AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED.

J. ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE NEMA-1 FOR INTERIOR AND NEMA 3R FOR EXTERIOR. IN COASTAL REGIONS THE STANDARD FOR OUTSIDE SHALL BE NEMA-4X.

K. PER SECTION 210.8(B)(2) NEC 2017, ALL SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS. 100 AMPERES OR LESS INSTALLED IN BATHROOMS, KITCHENS, OUTDOORS, SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL.

L. DO NOT MEASURE/LOCATE OUTLETS ON DRAWINGS. USE DIMENSIONS PROVIDED.

M. CONDUIT MAY RUN UNDER SLAB AT G.C.'S DISCRETION.

N. E.C. SHALL PROVIDE A PREPRINTED SELF-ADHESIVE LABEL ON ALL POS RECEPTACLES STATING "POS USE ONLY".

O. PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILING, AND FLOORS. DO NOT USE CAULKS OR EXPANSION FOAM FOR SEALANT.

P. ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE. ALL WIRE SHALL BE CONCEALED O.N.U.

Q. FOR ALL CIRCUITS NOT SHOWN ON EQUIPMENT SCHEDULE, CONTRACTOR SHALL PROVIDE CONDUCTOR AND CONDUIT SIZES AS SHOWN ON BRANCH CIRCUIT WIRING SCHEDULE SHOWN ON E2.2. IF SIZES DIFFER FROM N.E.C., THE MORE STRINGENT (LARGER) SIZE SHALL BE PROVIDED.

R. OUTLETS WITHIN FOH TO BE AT 18" AFF FOR ADA ACCESS.

S. CONDUITS NEAR DRIVE THRU WINDOW AREA TO BE ROUTED FROM ABOVE CEILING OR STUBBED UP FROM UNDER SLAB SO AS TO NOT INTERFERE WITH WINDOW FRAMING.

KEY NOTES - ELECTRICAL POWER PLAN NTS B

1. REFER TO ROOF PLAN.
2. INSTALL IN CONDUIT RUNNING ON SURFACE OF KITCHEN SIDE OF CABINETRY REAR WALL.
3. CONNECT PRODUCTION LINE CIRCUIT BREAKER PANEL VIA UTILITY CHASE IN CEILING TO A 3 POLE, 200 AMP CIRCUIT BREAKER IN MAIN SWITCHBOARD. SEE SHEET E2.0. VERIFY ALL REQUIREMENTS WITH ACTUAL EQUIPMENT SPECIFIED. THE MANUFACTURER WILL FULLY PRE-WIRE THE COMPLETE MAPS LINE AT THE FACTORY. THE UNITS WILL THEN BE PULLED APART FOR SHIPPING PURPOSES. ALL CONNECTION POINTS WILL BE MARKED. THE CONDUIT RUNS WILL BE COILED UP FOR FIELD INSTALLATION. SOME ELECTRICAL COMPONENTS MAY BE REMOVED FOR EASE OF DISASSEMBLING THE LINE-UP. THE ELECTRICAL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR MAKING THE PROPER FIELD CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE MANUFACTURER PROVIDED BREAKER PANEL BOX. IN ADDITION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY SPLICE POINTS AND/OR JUNCTION BOXES THAT NEED TO BE RECONNECTED. SOME ELECTRICAL COMPONENT ASSEMBLY MAY ALSO BE REQUIRED.
4. EQUIPMENT CABINET.
5. LOCATED INSIDE SHELL OF HEATER.
6. INSTALL CONTROL CABLE FROM FREEZER/COOLER FAN COIL TO ROOF MOUNTED CONDENSER.
7. LOCATE SWITCHGEAR PER GUIDELINES ON SHEET A4.1.
8. PROVIDE BOOST TRANSFORMER (208V, 1-PHASE IN, 240V, 1-PHASE OUT) FOR FROZEN BEVERAGE DISPENSER.
9. CEILING MOUNTED FOR WALL MOUNTED HME. SEE 16/E3.1
10. PROVIDE TAMPER PROOF DUPLEX RECEPTACLE WITH TWO (2) USB CHARGING PORTS.
11. VERIFY PANEL LOCATION OF COOK LINE WITH TACO BELL CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
12. PROVIDE J-BOX FOR POWER SOAK INDICATOR LIGHT. (OPTIONAL)
13. VERIFY LOCATION OF JUNCTION BOX WITH CONSTRUCTION MANAGER.
14. E.C. SHALL PROVIDE, INSTALL AND WIRE A TAMPER PROOF DUPLEX RECEPTACLE WITH (2) USB POWER PORTS IN SINGLE-GANG BOX PROVIDED WITH TABLE, AT EACH END OF THE TABLE. PROVIDE GALVANIZED COVER PLATE TO MATCH BOX.
15. PROVIDE POWER FOR SECURITY CAMERAS. COORDINATE WITH CAMERA VENDOR, SECURITY, AND CONSTRUCTION SUPERVISOR PRIOR TO ROUGH-IN.
16. QUAD RECEPTACLE FOR FUTURE DIGITAL MENUBOARD. TYPICAL OF 2.
17. 2-GANG FLUSH BOX WITH DEAD-FRONT GFCI DEVICES. MOUNT CENTER OF BOX AT 48" A.F.F.. REFER TO E7.0.
18. EC / GC TO INSTALL A TOTAL OF (2) QUAD OUTLETS IN (2) QUAD BOXES ON FRONT OF VALANCE WALL AS SHOWN. OUTLETS TO BE STRAIGHT BLADE. OUTLETS TO BE ON AN ISOLATED/DEDICATED GROUNDED CIRCUIT THAT IS NOT CONNECTED TO ANY RESTAURANT POWER MANAGEMENT SYSTEM.
19. EC / GC TO INSTALL (1) OPEN DATA JUNCTION BOX (JB) IN VALANCE WALL. CONDUIT TERMINATED ABOVE CEILING TO HAVE BUSHING.
20. EC / GC TO RUN (3) ORANGE CAT 6 LINES FROM NETWORK SWITCH TO DATA JUNCTION BOX. CAT6 LINES SHOULD HAVE BOTH ENDS PROPERLY TERMINATED WITH RJ-45 CONNECTORS. EXCESS CAT6 CABLE TO BE COILED INTO SERVICE LOOPS AT EACH END AND LEFT ACCESSIBLE FOR DMB INSTALL TEAM. CAT6 TO BE RUN IN ACCORDANCE WITH ALL LOCAL MUNICIPALITY CODE REQUIREMENTS.
21. CONNECT PRODUCTION LINE CIRCUIT BREAKER PANEL VIA UTILITY CHASE IN CEILING TO A 3 POLE, 125 AMP CIRCUIT BREAKER IN MAIN SWITCHBOARD. SEE SHEET E2.0. VERIFY ALL REQUIREMENTS WITH ACTUAL EQUIPMENT SPECIFIED. THE MANUFACTURER WILL FULLY PRE-WIRE THE COMPLETE MAPS LINE AT THE FACTORY. THE UNITS WILL THEN BE PULLED APART FOR SHIPPING PURPOSES. ALL CONNECTION POINTS WILL BE MARKED. THE CONDUIT RUNS WILL BE COILED UP FOR FIELD INSTALLATION. SOME ELECTRICAL COMPONENTS MAY BE REMOVED FOR EASE OF DISASSEMBLING THE LINE-UP. THE ELECTRICAL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR MAKING THE PROPER FIELD CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE MANUFACTURER PROVIDED BREAKER PANEL BOX. IN ADDITION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY SPLICE POINTS AND/OR JUNCTION BOXES THAT NEED TO BE RECONNECTED. SOME ELECTRICAL COMPONENT ASSEMBLY MAY ALSO BE REQUIRED.
22. PROVIDE DISCONNECT SWITCH PER MANUFACTURER'S SPECIFICATIONS.

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STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: AS
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
ELECTRICAL POWER PLAN

E3.0

PLOT DATE: 6/14/2021 8:39:21 AM

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THE DEDICATED POS POWER CIRCUIT REQUIRES AN ISOLATED GROUND IN ADDITION TO THE NORMAL COMMON BUILDING GROUND. THE ISOLATED GROUND WIRE SERVES TWO PURPOSES:
* AS A SAFETY PATH TO GROUND.
* AS A ZERO REFERENCE POINT FOR ALL POS DIGITAL LOGIC.

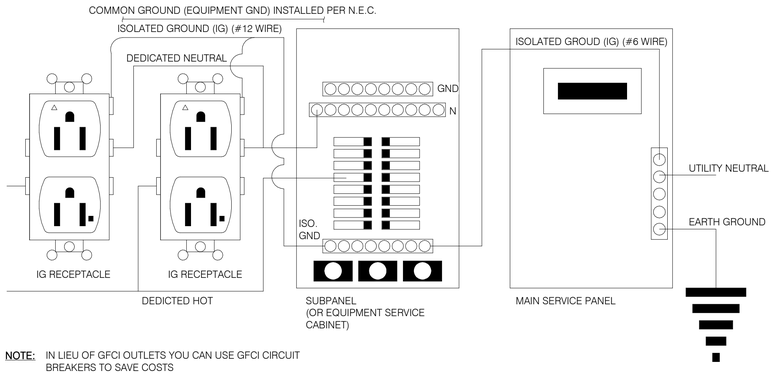
THE GROUND MUST EXHIBIT THE LOWEST POSSIBLE IMPEDANCE TO MINIMIZE VOLTAGE TRANSIENTS AND NOISE.

BE SURE TO:

* USE AN INSULATED CONDUCTOR FOR THE ISOLATED GROUND WIRE.
* RUN THE ISOLATED GROUND WIRE THROUGH THE SAME CONDUIT AS THE HOT AND NEUTRAL WIRES.
* INSTALL ONLY ISOLATED GROUND (IG) TYPE RECEPTACLES.
* CONNECT THE ISOLATED GROUND WIRE TO BUILDING GROUND ONLY AT THE MAIN SERVICE PANEL.
* VERIFY THAT IG RECEPTACLES PRE-WIRED IN OWNER SUPPLIED EQUIPMENT HAVE A TRUE ISOLATED GROUND THAT CAN BE TRACED BACK TO THE BUILDING GROUND AT THE MAIN SERVICE PANEL.

DO NOT CONNECT THE ISOLATED GROUND WIRE TO THE CONDUIT, JUNCTION BOXES, THE FRAME ON A SUBPANEL, OR ANY OTHER METAL SURFACE.

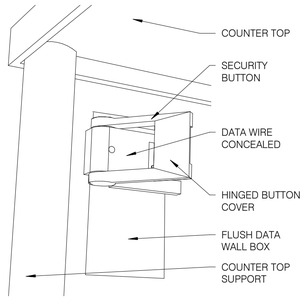
DEDICATED CIRCUITS: DEDICATED CIRCUITS REQUIRE A DEDICATED HOT AND A DEDICATED NEUTRAL THAT ARE NOT SHARED WITH ANY OTHER CIRCUITS. IG RECEPTACLES MUST BE "PHASE ALIGNED" WITH THE "B" PHASE OF BUILDING SUBPANEL "A".



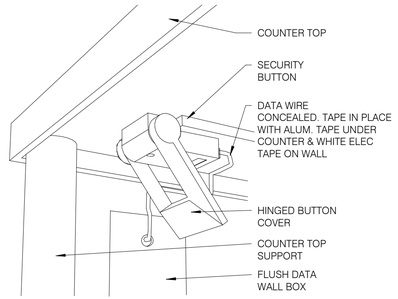
NOTE: IN LIEU OF GFCI OUTLETS YOU CAN USE GFCI CIRCUIT BREAKERS TO SAVE COSTS

YEW011

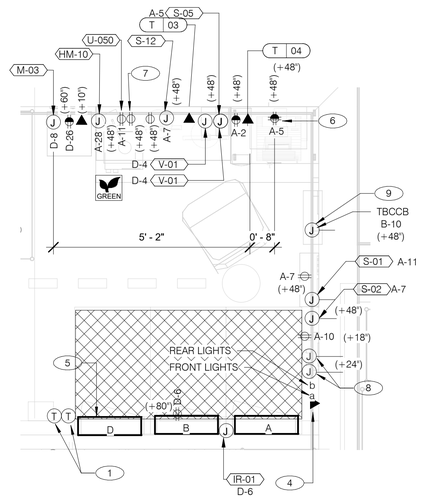
P.O.S. ISOLATED GROUND SYSTEM NTS 6



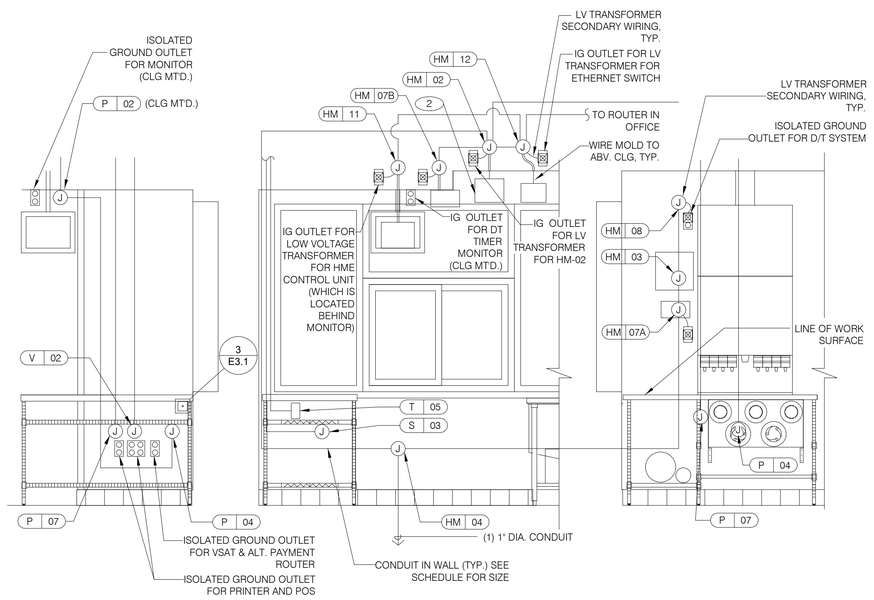
SECURITY BUTTON ON WALL NTS 3



SECURITY BUTTON UNDER COUNTER NTS 4



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



REFER TO COMMUNICATIONS SCHEDULE ON SHEET E5.0 FOR EQUIPMENT DESCRIPTIONS/MOUNTING HTS.

ENLARGED INTERIOR ELEVATION (D/T WINDOW) NTS 7

1. THERMOSTATS CONTROLS.
2. DISPLAY UNIT FOR HM-02.
3. NOT USED.
4. PHONE JACK FOR MODEM.
5. LOCATION OF TBCCB COMBINED CONTROL BOX. COORDINATE EXACT LOCATION IN THE FIELD. CONSIDER OPERATOR NEED TO ACCESS SWITCHES ON THE FRONT OF THE CONTROL BOX AND BUILT IN OCCUPANCY SENSOR FOR MANAGERS OFFICE.
6. DATA JACK FOR TECH-IN-A-BOX WITH 2 PORTS.
7. ROUTE CIRCUIT THROUGH TBCCB OCCUPANCY SENSOR FOR CONTROLLED RECEPTACLE.
8. PROVIDE BACK-BOX AND CONDUIT WITH PULLSTRING FOR REMOTE TEST STATIONS PROVIDED BY MECHANICAL. COORDINATE REQUIREMENTS WITH MECHANICAL.
9. PROVIDE JUNCTION BOX FOR FOR 'TBCCB' EQUIPMENT. REFER TO DWGS. E6.0 & E6.1 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH TBCCB VENDOR AND CONSTRUCTION SUPERVISOR PRIOR TO ROUGH-IN.

KEY NOTES - ELECTRICAL ENLARGED DETAILS NTS 2

GPD GROUP
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JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0

ENLARGED POWER PLAN AND DETAILS

E3.1

PLOT DATE: 6/14/2021 8:39:24 AM

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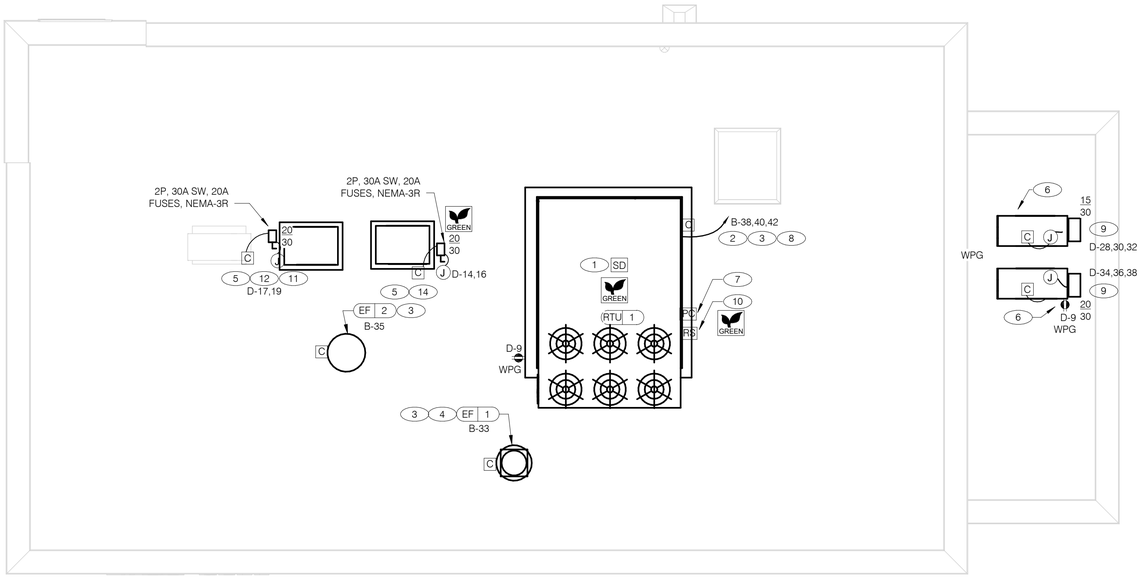

POWER ROOF PLAN 1/4" = 1'-0" A

GENERAL NOTES - ELECTRICAL POWER ROOF PLAN NTS C

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

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

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

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

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

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

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

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

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

J. ARMOR CABLE (BX) IS ONLY TO BE ALLOWED WHERE ACCEPTABLE BY AUTHORITY HAVING JURISDICTION.

KEY NOTES - ELECTRICAL POWER ROOF PLAN NTS B

1. MECHANICAL CONTRACTOR SHALL PROVIDE CONNECTIONS BETWEEN RTU FACTORY SMOKE DETECTORS AND REMOTE ENNUNCIATOR, TEST AND RESET DEVICE IN MANAGER OFFICE. ELECTRICAL CONTRACTOR SHALL PROVIDE ANY NECESSARY CONDUITS FOR LOW VOLTAGE WIRING.
2. SPECIFIED RTU IS SUPPLIED WITH UNPOWERED, WEATHERPROOF GFCI CONVIENENCE OUTLET AND FACTORY INSTALLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURES AND ACCESS THRU SWINGING DOOR.
3. POWER AND CONTROL IN FLEXIBLE WATERPROOF CONDUIT (LFMC CONDUIT) TO ENTER FROM SIDE OF THE CURB AND UP TO FACTORY PROVIDED DISCONNECT SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
4. CONNECT TO APPROPRIATE TERMINALS OF TBCCB CONTROL BOX. SEE E6.1 FOR DETAILS.
5. 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE ICE MACHINE. MAKE CONNECTION TO ICE MACHINE AND CONDENSING UNIT.
6. REFER TO POWER PLAN FOR CONTINUATION TO COOLER / FREEZER.
7. CONNECT TO APPROPRIATE PHOTOCELL TERMINALS OF TBCCB CONTROL BOX. SEE E6.1 FOR DETAILS.
8. RTU'S SHALL BE PROVIDED WITH BUILT-IN DISCONNECT AND SINGLE POINT WIRING.
9. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER TYPE, STARTER, DISCONNECT SWITCH, AND FUSE SIZE (IF REQUIRED) WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND FURNISH AND INSTALL EVERYTHING AS REQUIRED.
10. RAIN SENSOR. GREEN
11. PIPE HOOD. SEE 9/A6.0
12. ELECTRICAL CONTRACTOR SHALL MAKE ALL ELEC. CONNECTIONS INCLUDING ALL NECESSARY INTERCONNECTIONS BETWEEN THE COMPRESSOR ON THE ROOF & THE EVAPORATOR IN THE ICE MACHINE AS REQ'D. REFER TO THE MFR'S SHOP DWGS FOR EXACT INSTALL. & INTERCONNECTION RQMTS, PRIOR TO ROUGH-IN INSTALL.
13. NOT USED.
14. 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE FROZEN BEVERAGE MACHINE. MAKE CONNECTION TO BEVERAGE MACHINE AND ASSOCIATED CONDENSING UNIT.

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1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
ELECTRICAL POWER ROOF PLAN

E3.2

PLOT DATE: 6/14/2021 8:39:25 AM

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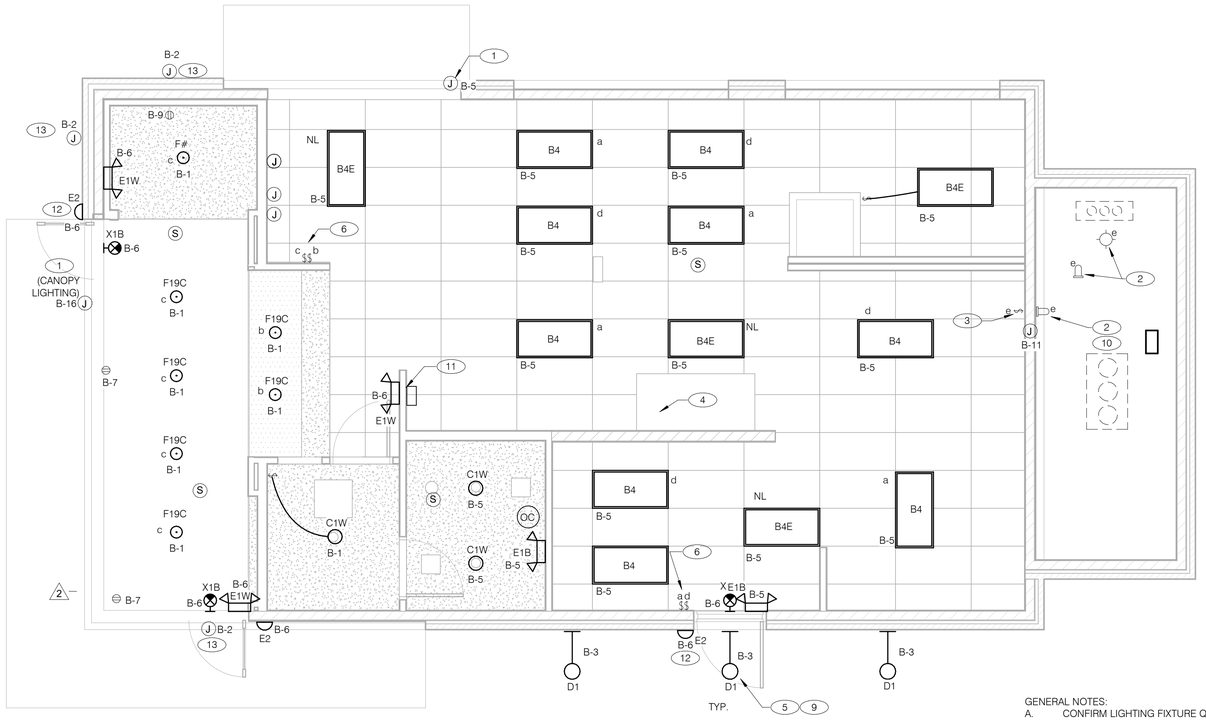

GENERAL NOTES:

A. CONFIRM LIGHTING FIXTURE QUANTITIES WITH SUPPLIER.
B. EMERGENCY AND NORMAL LIGHTING MARKED WITH "NL" SUBSCRIPT SHALL OPERATE CONTINUOUSLY. PROVIDE UNSWITCHED HOT TO NORMAL AND EMERGENCY BALLAST.
C. EMERGENCY LIGHTING NOT MARKED WITH "NL" SUBSCRIPT SHALL OPERATE UNDER CONTROL OF LIGHTING SWTICH AS INDICATED. PROVIDE UNSWITCHED CONSTANT HOT TO EMERGENCY BALLAST AND SWITCHED HOT TO NORMAL BALLAST.
D. ALL CONDUITS ENTERING OR LEAVING COOLER/FREEZER SHALL BE PROVIDED WITH SEAL-OFF FITTING WITH COMPOUND PER NEC 300-(7a).
E. ALL INTERIOR LIGHTING CIRCUITS TO BE WIRED THROUGH TBCCB . SEE E6.0 THROUGH E6.3.
F. CONTRACTOR TO FIELD VERIFY CEILING TYPE AND PROVIDE PROPER MOUNTING HARDWARE.
G. ALL FIXTURES SUPPLIED WITH LAMPS.
H. ALL EXTERIOR NON-EMERGENCY LIGHT FIXTURES, BUILDING SIGNS, AND EXTERIOR SIGNS SHALL BE CONTROLLED THROUGH PHOTOCELL AND LIGHTING CONTROL RELAYS. SEE E6.0 THRU E6.3 FOR ADDITIONAL DETAILS.

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

NO.	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP #/TYPE	BALLAST TYPE	ELECTRICAL DATA	REMARKS
A1	LSI INDUSTRIES	MRM-LED-24L-SIL-FT-40-70CRI	LED POLE LIGHT		LED		120 V/1-189 VA	
A4	LSI INDUSTRIES	4SQB3-SO7G-25-BRZ	LIGHT POLE		NA		0 V/1-0 VA	
B4	ABB	FLP24-D53W40	2X4 LED TROFFER		LED		120 V/1-45 VA	-
B4E	ABB	FLP24-D53W40-EM	2X4 LED TROFFER	RECESSED GRID	LED	NA	120 V/1-45 VA	-
C1B	MAXLITE	B6IC-AT-W-LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI BLACK TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING	RECESSED	LED	NA	120 V/1-14 VA	-
C1W	MAXLITE	B6IC-AT-W- LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING	RECESSED	LED	NA	120 V/1-14 VA	-
D1	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.	LED9A19D2527K	NA	120 V/1-60 VA	ALIGN BOTTOM OF FIXTURE'S MOUNTING WITH CHANGE IN EIFS THICKNESS
E1B	ELITE	ELM-809-B	EMERGENCY LIGHT FROG EYE - BLACK	WALL, TOP @ 9'-4" U.O.N.	-	EM	120 V/1-12 VA	-
E1W	ELITE	ELM-809-W	EMERGENCY LIGHT FROG EYE - WHITE		-		120 V/1-12 VA	-
E2	ELITE	ELM-807-SDT-BZ	CAMRAY LED EM WALL MNT, DRK BRNZ, CLD WEATHER	UNIVERSAL	-	EM	120 V/1-16 VA	-
F19C	SPECTRUM LIGHTING	SPCO304INC-MWL(25W)PAR20-CM-180"-MB	LED PENDANT - 3"		1/LED LR20/40/27K/975/BK		120 V/1-9 VA	-
F#	CAPITAL LIGHTING		TBD		1/LED 10A19D0D27K		120 V/1-0 VA	-
X1B	LIGHTALARMS	GRANNRB	LED UNIVERSAL MNTG THERMOPLASTIC EXIT, RED LETTERS, BLACK HSNG	UNIVERSAL	-/LED	EM	120 V/1-3 VA	-

2

KEY NOTES - ELECTRICAL LIGHTING PLAN AND SCHEDULE NTS B

1. PROVIDE POWER CONNECTION TO CANOPY AT FACTORY INSTALLED DISCONNECT SWITCH FOR CANOPY LIGHTS. LIGHTS ARE FURNISHED WITH CANOPY. PROVIDE ALL REQUIRED FIELD WIRING. COORDINATE REQUIREMENTS WITH MANUFACTURUER.
2. FOR LIGHTING FIXTURES, CONDUIT, CONDUCTORS AND INSTALLATION RESPONSIBILITIES, REFER TO SCOPE OF WORK.
3. FIXTURE AND SWITCH FACTORY INSTALLED WITH UNIT. G.C. TO COMPLETE CIRCUITING.
4. EXHAUST HOOD LIGHT FIXTURES SUPPLIED WITH HOOD AND MTD IN PRE-WIRED J-BOX. COMPLETE CIRCUITING PER SHEET E6.1.
5. COORD. J-BOX LOCATION WITH WOOD FRAMING SO IT REMAINS CONCEALED BEHIND FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DWGS.
6. PROPOSED LOCATION OF LIGHT SWTICH. COORDINATE EXACT LOCATION AS NECESSARY.
7. NOT USED.
8. NOT USED.
9. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS ON A4.0 AMD A4.1 FOR DIMENSIONED LOCATION OF FIXTURE.
10. SEAL ALL ELECTRICAL CONDUITS INTO THE WALK-IN COOLER. SEE DETAIL 6/E3.1
11. ALERT LIGHT : SEE SHEET E3.0 (TAG: L FOR POWER REQUIREMENTS.
12. MOUNT "E2" AT BOTTOM OF ROOF LEDGE ABOVE DOOR. COORDINATE EXACT LOCATION IN FIELD.
13. VERIFY MOUNTING HEIGHT FOR SIGN POWER WITH ARCHITECTURAL ELEVATIONS AND SIGN VENDOR.

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
2	05.24.21	Dining Room Revisions
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: AS
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
LIGHTING PLAN AND DETAILS

E4.0

PLOT DATE: 6/14/2021 8:39:28 AM

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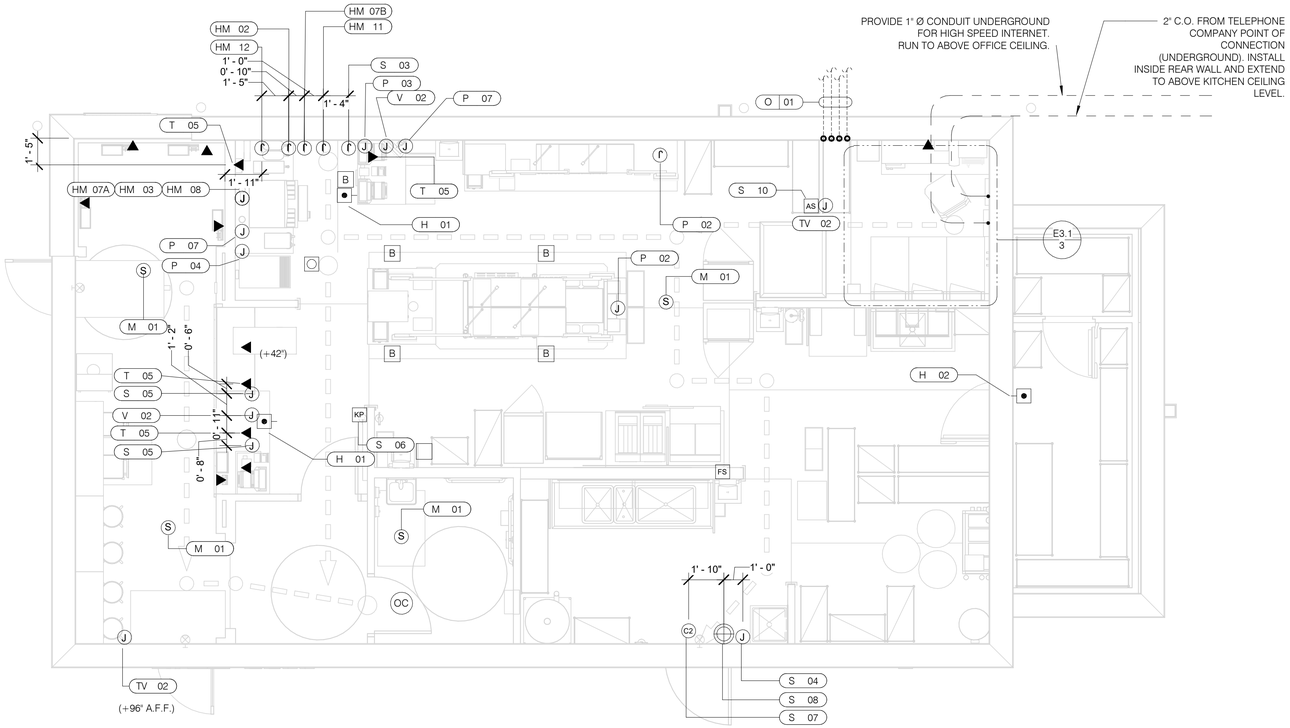
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



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

SOME NOTES MAY NOT BE USED. COORDINATE WITH PLAN AND CONSTRUCTION SUPERVISOR

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

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

COMMUNICATIONS LEGEND NTS C

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

B. SEE SHEETS E3.0 AND E3.1 FOR ELECT. INFO ON POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

C. THIS PLAN INCLUDES CONDUITS AND J-BOXES FOR POS, SECURITY SYSTEM, CCTV SYSTEM, (OFFICE) COMPUTER, TELEPHONE SYSTEM, MUSIC SYSTEM, DRIVE-THRU TIMER AND DRIVE-THRU COMMUNICATION SYSTEM.

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

COMMUNICATIONS NOTES NTS B

COMMUNICATIONS ROUGH-IN SCHEDULE

COMM. TYPE	COMM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
H	01	UNDER COUNTER HOLD-UP BUTTON		SEE DETAIL 6/E3.1.
H	02	WALL MOUNTED HOLD-UP BUTTON	+18" A.F.F.	SURFACE MTD. 2X4 J-BOX ON INSIDE OF WALK-IN FREEZER HINGE WALL W/ (1) 1/2" CONDUIT TO ABOVE KITCHEN CEILING. BUTTON FACING DOWN. SEE DETAIL 3/E3.1
HM	02	D/T TIMER SIGNAL PROCESSOR J-BOX	+126" A.F.F	4X4X4" DEEP (MIN.) J-BOX ABV. CLG. W/ (1) 1" CONDUIT TO HM-07B, (1) 1" CONDUIT TO HM-04, (1) 1-1/2" CONDUIT TO HM-08 & (1) 1" CONDUIT TO HM-12. SEE DET. 5/E3.1.
HM	03	D/T BASE STATION J-BOX	+72" A.F.F.	4X4 J-BOX @ D/T BASE STATION W/ (1) 1-1/2" C TO HM-08 & (1) 1-1/2" C TO HM-07A. SEE DETAIL 7/E3.1.
HM	07A	D/T TIMER DISPLAY J-BOX	+62" A.F.F.	2X4 J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1" C TO HM-04. SEE DETAIL 7/E3.1.
HM	07B	D/T TIMER DISPLAY J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-02. SEE DETAIL 5/E3.1
HM	08	D/T J-BOX	+96" A.F.F.	4X4X4" DEEP (MIN.) J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1-1/2" CONDUIT TO HM-02. SEE DETAIL 7/E3.1.
HM	11	D/T CONTROL UNIT J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-12. SEE DETAIL 5/E3.1.
HM	12	D/T/ ETHERNET SWITCH J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-11, (1) 1" CONDUIT TO HM-02 & (1) 1" CONDUIT TO OFFICE ROUTER.
M	01			
P	02		CEILING	2X4 J-BOX FLUSH @ CEILING. FOR M.A.P.S. LINE MONITOR J-BOX.
P	03	KITCHEN MONITOR J-BOX	+84" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO ABOVE CIELING
P	04	BUMP PAD J-BOX	+24" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-03.
P	07	POS J-BOX W/ 2-1/2" DIA HOLE IN COVER PLATE	+24" A.F.F.	6X6X4" DEEP J-BOX W/ 2-1/2" CONDUIT IN WALL TO ABV. CEILING, WITH PULL STRING FOR POS.
S	03	J-BOX SECURITY SYSTEM	+30" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. FOR HOLD-UP BUTTON SIGNAL WIRE.
S	04	J-BOX SECURITY SYSTEM	+84" A.F.F.	2X4 J-BOX W/ COVER & (1) 1/2" CONDUIT TO ABOVE CEILING.
S	05	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.
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	10	ALARM SIREN	ABV. CEILING	CONNECT TO SECURITY SYSTEM.
T	03	VOICE LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ DOUBLE RJ-11 PHONE JACK & 1" CONDUIT TO ABOVE CEILING.
T	04	COMPUTER LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ RJ-11 PHONE JACK AND 1" CONDUIT TO ABOVE CEILING.
T	05		+24" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING.
TV	02	SECURITY CAMERA	+96" A.F.F.	MINI-DOME CAMERA MTD. TO BTM. OF MENU BOARD BULKHEAD. 2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING MTD. ON BACK SIDE OF BULKHEAD (6 TOTAL).

COMMUNICATIONS ROUGH-IN SCHEDULE

COMM. TYPE	COMM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
V	02	CREDIT CARD READER (VSAT)	+24" A.F.F.	2X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES.
O	01	(4) 1" DATA CONDUITS	U.G.	FROM MENU BOARD SPEAKER POST TO ABOVE CEILING FOR OCB AND D/T COM
S	01	J-BOX SECURITY SYSTEMS	+48" A.F.F.	4X4 J-BOX AT SECUIRTY SYSTEM CONTROL PANEL W/ (1) 2" CONDUIT TO S-02
S	02	J-BOX SECURITY SYSTEMS	+106" A.F.F.	4X4 J-BOX ADJACENT TO T-02 W/ (1) 2" CONDUIT TO S-01
S	12	J-BOX SECURITY DVR	+42" A.F.F.	2X4 J-BOX FOR SECURITY DVR
T	02	SECURITY SYSTEM PHONE JACK	+106" A.F.F.	2X4 J-BOX ADJACENT TO S-02 W/ RJ-31X PHONE JACK
V	01	ALTERNATE PAYMENT ROUTER BOX	+90" A.F.F.	4X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES (DOUBLE JACK)
HM	10	OCB SWITCH	+52" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING
IR	01	IRRIGATION TIMER	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES

GPD GROUP
Professional Corporation
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AKRON, OH 44311
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	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. MED40
PLAN VERSION: MARCH 2020
BRAND DESIGNER: Dickson
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.: AS
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
COMMUNICATIONS PLAN

E5.0

PLOT DATE: 6/14/2021 8:39:31 AM

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TBCCB-3-WOS SEQUENCE OF OPERATION

The intent of the BMS Control Box (TBCCB-3-WOS) is to activate or deactivate the following:

- Kitchen Lighting
- Dining Room Lighting
- Exterior Lighting
- Exterior Signs
- Exhaust hood exhaust fan
- Exhaust hood lighting
- Make up air / replacement air fan
- Rest room / cook line exhaust fan
- Managers Office lighting & at least one duplex outlet

Sequence of Operation

(Building) Occupied Mode
When the Occupied/Unoccupied selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 1 of the Timeclock in the Control Box is programmed to place the building in Occupied mode 15 minutes before the first Team Member arrives on the premises. This commands on the following:

- The Parking Lot Lights, provided the photo cell indicates it is dark enough for them to be on
- The restroom and cook line exhaust fan marked "EF-2"
- Dining Room Lights, provided their local switch is in the ON position
- Kitchen and rest room lights, provided their local switch and or occupancy sensors are in the ON position
- The exhaust hood exhaust fan marked "EF-1"
- The make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2.

Occupied mode may also be invoked when any of the following occur;

- an Occupancy sensor on the front of the TBCCB-3-WOS panel senses motion
- when an optional remote Occupancy sensor senses motion
- when a remote Occupied switch is in the Occupied position
- when the Occupied/Unoccupied switch on the front of the TBCCB-3-WOS is placed in the MANUAL OCCUPIED position

(Building) Unoccupied Mode
When the Occupied/Unoccupied selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 1 of the Timeclock in the Control Box is programmed to place the building in Unoccupied mode 15 minutes after the last Team Member leaves the premises. This commands OFF the following:

- The Parking Lot Lights
- The restroom and cook line exhaust fan marked "EF-2"
- Dining Room Lights
- Kitchen room lights
- The exhaust hood exhaust fan marked "EF-1"
- The make up air - replacement air fan (evaporator fan) in RTU 1 and RTU 2.

In the event of a rise in temperature above 85 degrees in the exhaust hood, the exhaust fan (EF-1) and the make up air source (RTU 1 and 2) will be activated. When in Unoccupied mode and the temperature under the hood drops below 85 degrees, the exhaust fan and make up air source will turn off fifteen minutes after the I85 degree setting is achieved.

Any detection by the Occupancy sensor in the TBCCB-3-WOS or the optional Remote Occupancy Sensor or the optional Remote Occupancy Switch or ON position of the Manual Occupied switch will override the Timeclock and keep the building in OCCUPIED mode.

(Sales) OPEN mode
When the OPEN/CLOSED selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 2 of the Timeclock in the Control Box is programmed to place the building in OPEN (FOR SALES) mode. This commands on the following:

- The Exterior Building Lights, provided the photo cell indicates it is dark enough for them to be on
- The Exterior Signs, provided the photo cell indicates it is dark enough for them to be on

OPEN for sales mode may also be invoked when any of the following occur:

- when an optional remote OPEN (for sales) switch is in the OPEN position
- when the OPEN/CLOSED switch on the front of the TBCCB-3-WOS is placed in the MANUAL OPEN position

(Sales) CLOSED mode
When the OPEN/CLOSED selector switch on the front of the TBCCB-3-WOS panel is in the "Auto" position, Channel 2 of the Timeclock in the Control Box is programmed to place the building in CLOSED (FOR SALES) mode. This commands OFF the following:

- The Exterior Building Lights
- The Exterior Signs,

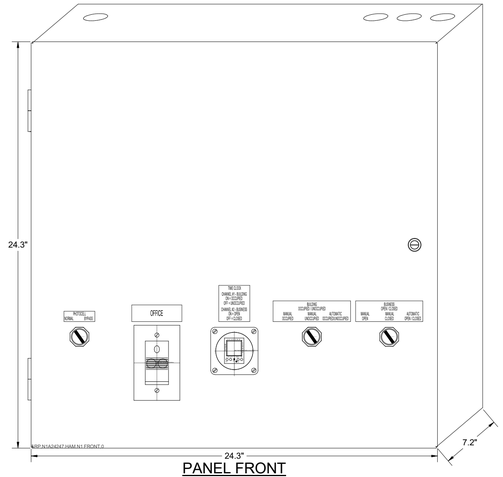
Manual CLOSED Mode
When a Team Member places the OPEN/CLOSED switch in the MANUALCLOSED position it turns off the Signs and Exterior Lights until the switch is placed back in AUTOMATIC or MANUAL OPEN position

EXTERNAL OPERATIONS NOT PART OF THE CONTROL BOX OPERATION BUT REQUIRED TO BE INSTALLED
The following operations should take place between the package units and various components:

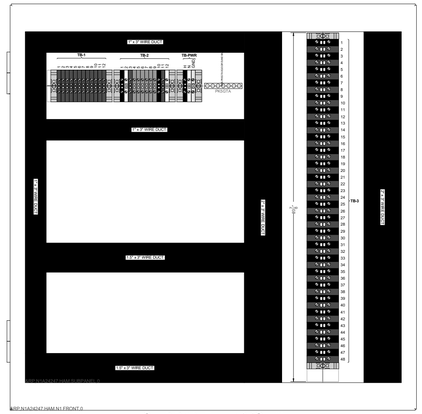
- Control voltage for RTU 2 shall pass through contacts in the fire suppression system for the exhaust hood so that RTU 2 evaporator fan shuts down upon an activation of the fire suppressant into the hood. The system shall be wired directly between the fire suppression system and RTU 2.
- A remote smoke detector system featuring testing, annunciation and remote unit reset shall be installed in the manager's office for each RTU. The system shall be wired directly between each RTU and its respective testing, annunciation and reset device.

NOTE

TBCCB AND TBANS REQURE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR CALL 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0

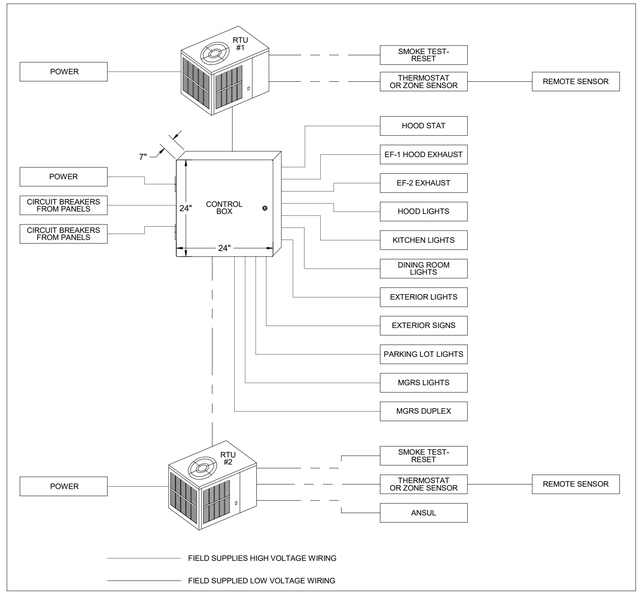


PANEL FRONT



SUBPANEL LAYOUT

TACO BELL COMPONENT RELATIONSHIP



FIELD WIRE BY OTHERS

THIS PANEL ENCLOSURE IS RATED TYPE 1.
TO PRESERVE RATING USE TYPE 1 CONDUIT ENTRY HUBS

c UL us LISTED

This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.

CONTROL BOX
TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBCCB-3-WOS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
NOTE: TBCCB-3 WOS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY.
TBCCB-3-WOS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.
PRIMARY CONTACT: CHUCK MCCABE
PHONE: 949 770 2222
EMAIL: INFO@ACE-EMS.COM

TBCCB-3-WOS

FOR REFERENCE ONLY

	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	AS
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR 1.0
ELECTRICAL DETAILS - TBCCB

E6.0

PLOT DATE: 6/14/2021 8:39:32 AM

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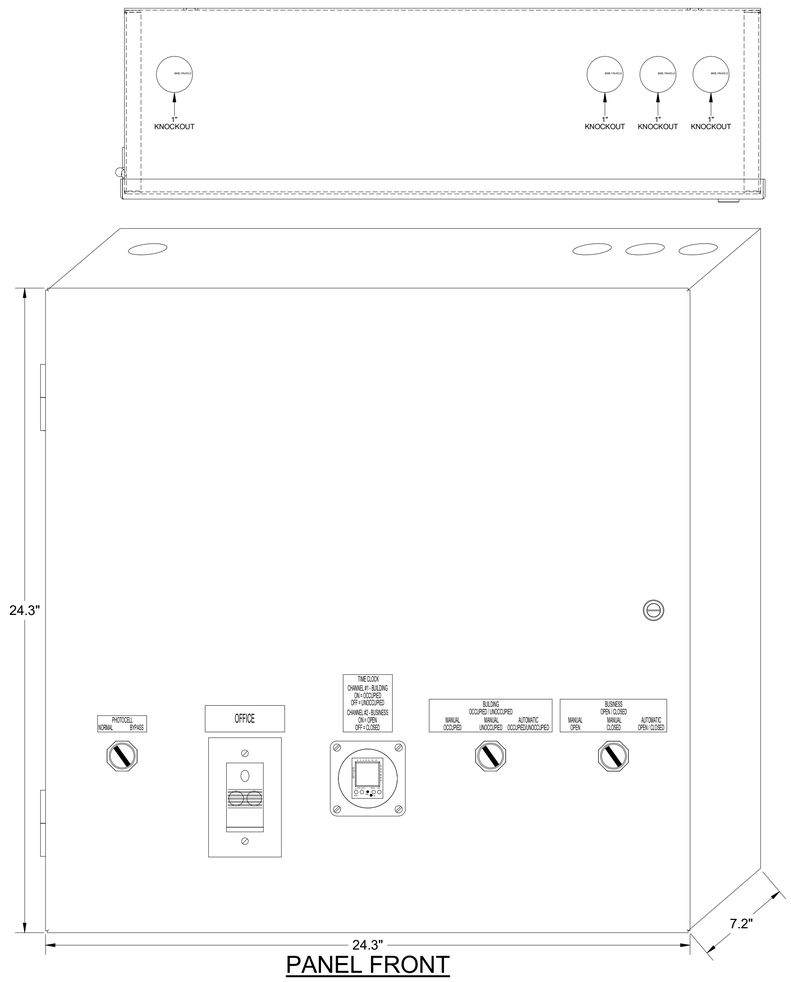
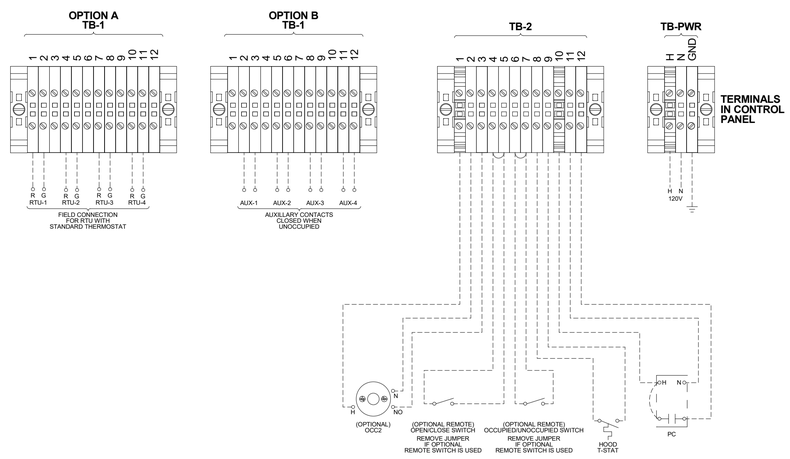
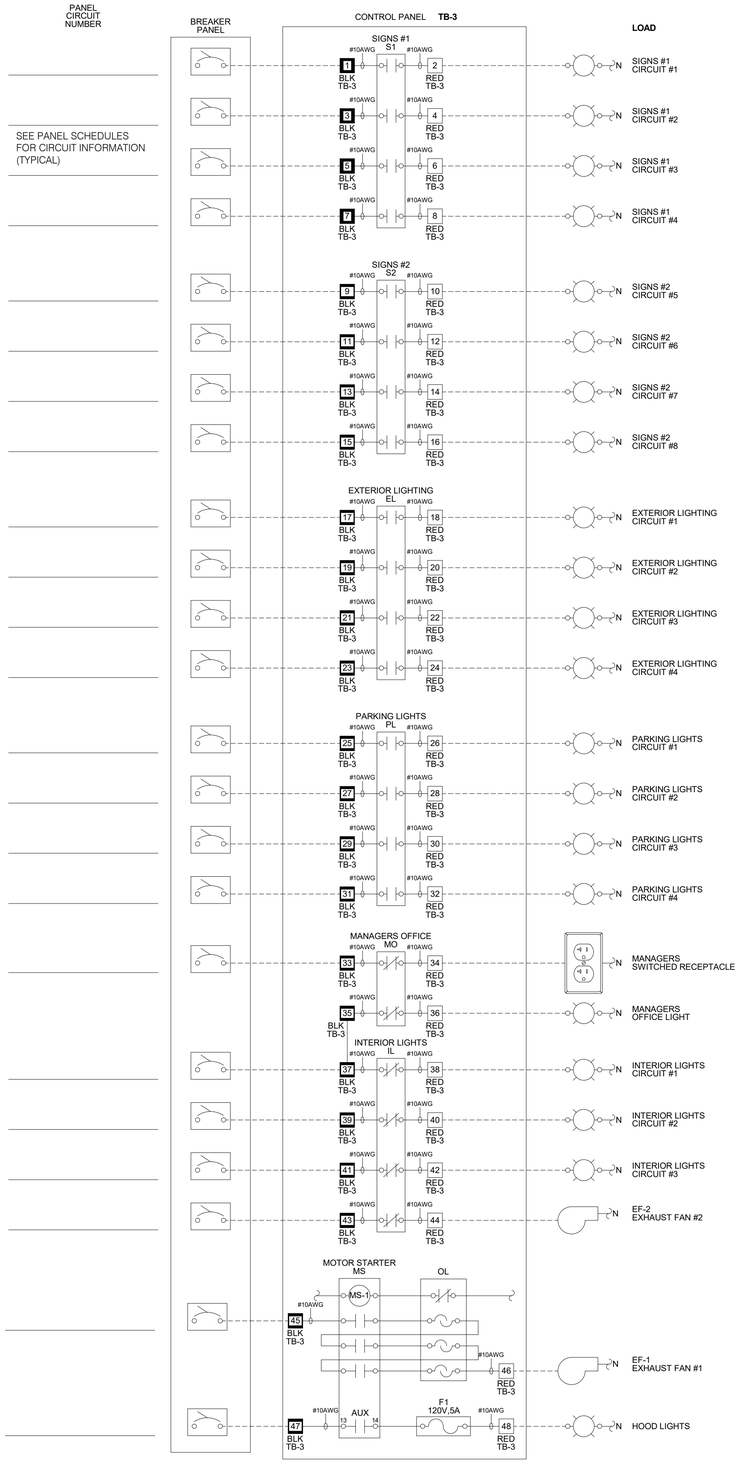
TBCCB-3-WOS







NOTE

TBCCB AND TBANS REQURE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR CALL 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0

FIELD WIRE BY OTHERS

THIS PANEL ENCLOSURE IS RATED TYPE 1. TO PRESERVE RATING USE TYPE 1 CONDUIT ENTRY HUBS

c UL us LISTED

This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.

NOTES:

1. VISUAL VERIFICATION OF THIS INSTALLATION IS REQUIRED. SEE SHEET SW2.0
2. PANEL IS SURFACE MOUNT
3. PROTECT INTERIOR FROM METAL SHAVINGS & DEBRIS

CONTROL BOX

TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBCCB-3-WOS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

NOTE: TBCCB-3 WOS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY.

TBCCB-3-WOS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.

PRIMARY CONTACT: CHUCK MCCABE

PHONE: 949 770 2222

EMAIL: INFO@ACE-EMS.COM

FOR REFERENCE ONLY

	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	AS
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

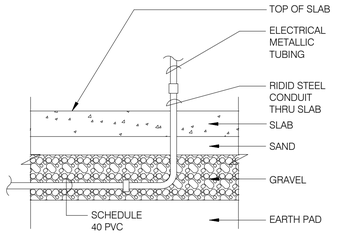
ENDEAVOR 1.0
ELECTRICAL DETAILS - TBCCB

E6.1

PLOT DATE: 6/14/2021 8:39:32 AM

C:\Users\rsmith\Documents\TB_Lincoln Park MI_MEP_Rustyd.rvt

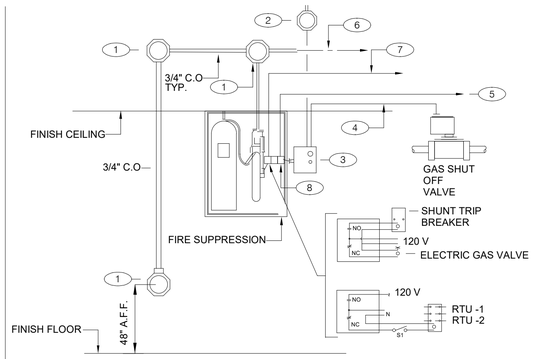
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



NOTE: GREEN GROUND WIRE REQUIRED IN ALL CONDUITS, SIZED PER N.E.C. REQUIREMENTS.

YES001

UNDER SLAB CONDUIT N.T.S. **7**



GENERAL NOTES:

1. REFER TO SHEET M3.0

KEY NOTES:

(1) PROVIDE 4" OCTAGONAL J-BOX.

(2) PROVIDE J-BOX , AND 110 V CIRCUIT. REFER TO EQUIPMENT SCHEDULE/FLOOR PLAN FOR CIRCUIT ASSIGNMENT. CONNECT TO TBANS. SEE SHEET 7.1.

(3) TBANS INSTALLED BY ELECTRICAL CONTRACTOR.

(4) PROVIDE CONNECTIONS TO TBANS BOX FOR HOOD SHUTDOWN. SEE SHEET E7.1 FOR TBANS WIRING DIAGRAM.

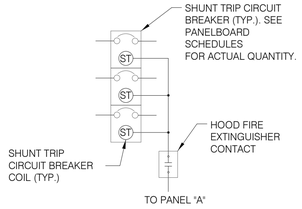
(5) PROVIDE 1/2" C WITH CONTROL CABLE. MAKE INTERCONNECTIONS TO EXHAUST & SUPPLY FAN INTERFACE THROUGH MICROSWITCH ON HOOD.

(6) CABLE AND CONNECTION TO FUSIBLE LINKS AT EXHAUST HOOD BY K.E.C.

(7) PROVIDE INTERCONNECTION BETWEEN FIRE SUPPRESSION MICROSWITCH AND TBANS. SEE SHEET E7.1.

(8) FIRE SUPPRESSION SYSTEM TO INCLUDE TWO MICROSWITCHES. EACH MICOSWITCH SHALL HAVE A COMMON, NORMALLY OPEN AND NORMALLY CLOSED POLE.

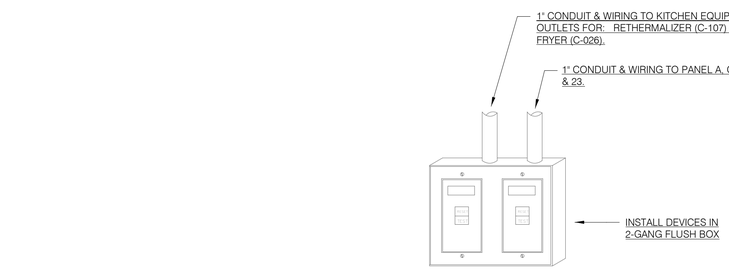
FIRE SUPPRESSION SYSTEM WIRING DIAGRAM N.T.S. **4**



SEQUENCE OF OPERATION:
UPON ACTIVATION OF ANY HOOD FIRE SUPPRESSION SYSTEM RELAY, A RELAY IN THAT FIRE SUPPRESSION SYSTEM SHALL CAUSE ALL SHUNT TRIP CIRCUIT BREAKERS TO OPERATE, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD. EXHAUST FANS SHALL NOT BE AFFECTED BY THIS ACTION AND SHALL CONTINUE TO BE CONTROLLED AS INDICATED IN THE SEQUENCE OF OPERATIONS INDICATED ON CONTROLS SHEETS E6.0 THROUGH E6.4.

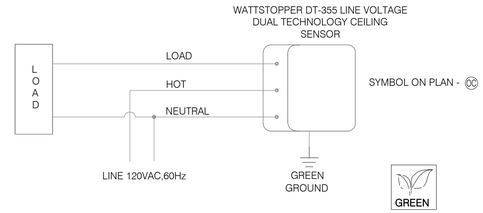
SHUNT TRIP DETAIL N.T.S. **1**

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

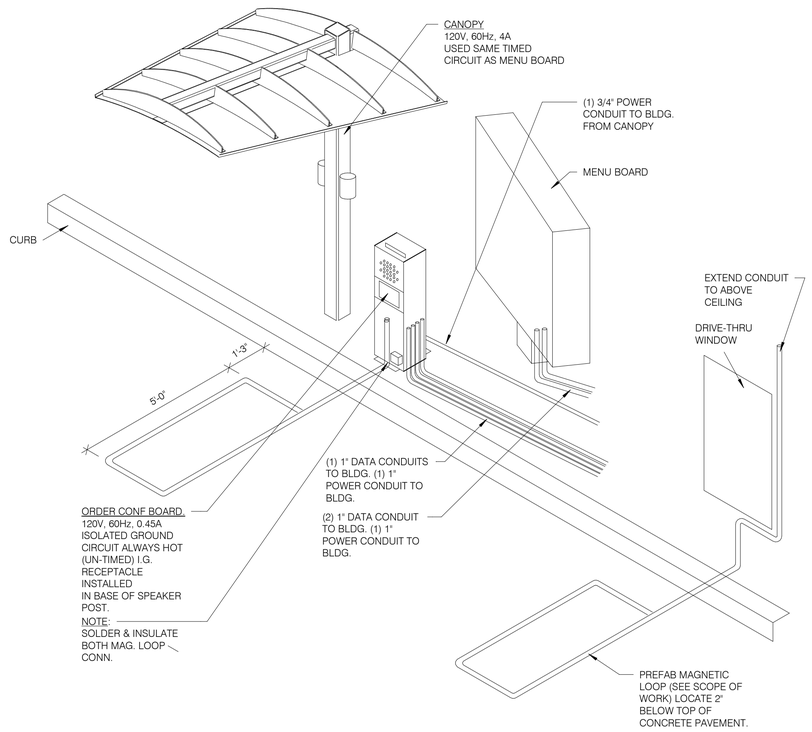


NOTES:
1. DEAD FRONT GFCI DEVICES ARE REQUIRED FOR KITCHEN EQUIPMENT REQUIRING BOTH A SHUNT TRIP BREAKER AND GFCI PROTECTION.
2. REFER TO SHEET E3.0 FOR LOCATION OF DEAD FRONT GFCI DEVICES.
3. PROVIDE LABEL ON DEVICES WITH CIRCUIT NUMBER AND LOAD DESIGNATION.

DEAD FRONT GFCI DEVICE DETAIL N.T.S. **5**



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



YES006A

DRIVE-THRU COMMUNICATIONS ISOMETRIC N.T.S. **3**

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

NOT USED N.T.S. **6**

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GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	AS
JOB NO.:	2019088.10

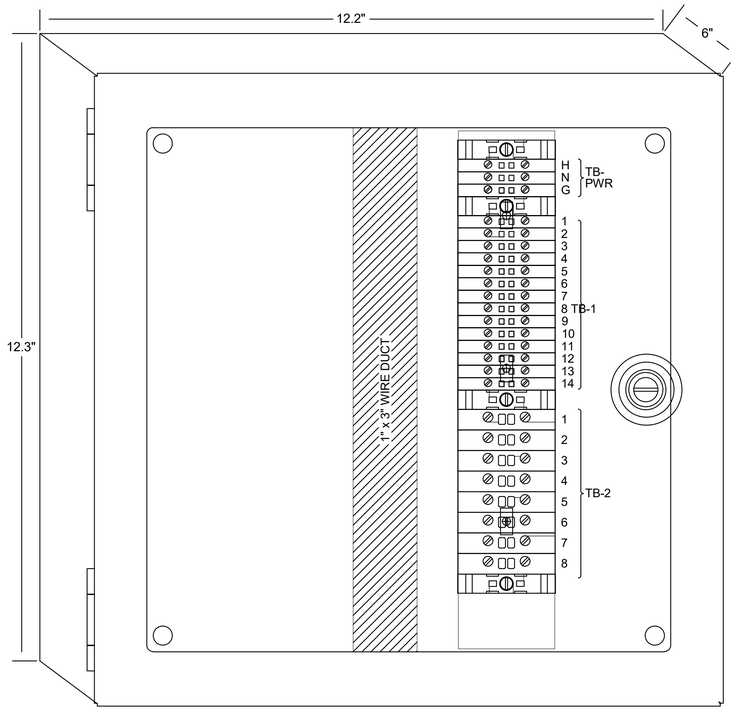
TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

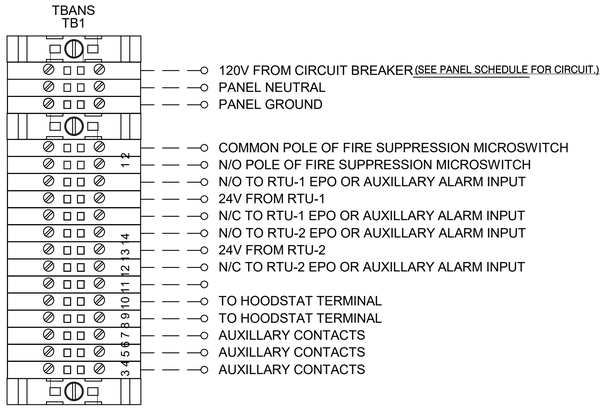
ENDEAVOR 1.0
ELECTRICAL DETAILS

E7.0

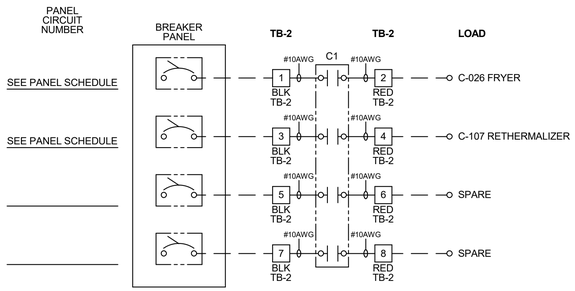
PLOT DATE: 6/14/2021 8:39:34 AM



1 TBANS PANEL DIMENSIONS — NTS



2 TBANS FIELD CONNECTIONS - VARIOUS — NTS



3 TBANS FIELD CONNECTIONS - APPLIANCES — NTS

SEQUENCE OF OPERATION:
ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM RELAY SHALL CAUSE TBANS TO DE-ENERGIZE LOAD, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD.

CONTROL BOX

TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBANS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

NOTE: TBANS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY.

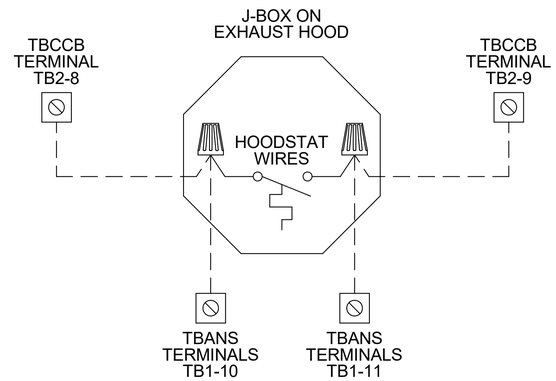
TBANS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.

PRIMARY CONTACT: CHUCK MCCABE

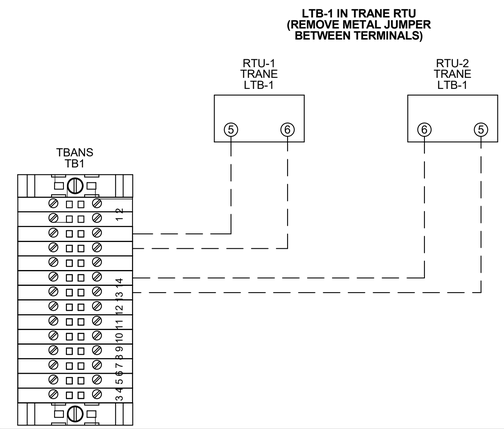
PHONE: 949 770 2222

EMAIL: INFO@ACE-EMS.COM

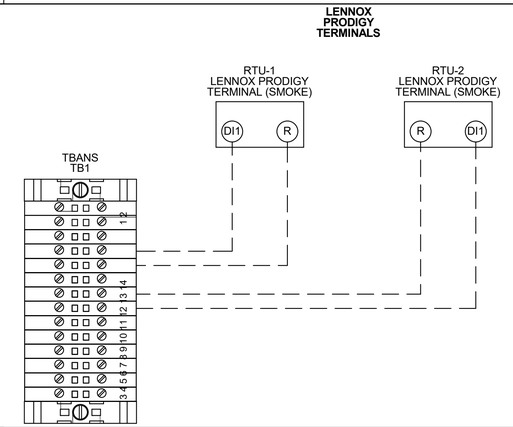
TACO BELL REQUIRES VISUAL CERTIFICATION OF THIS INSTALLATION
SEE SHEET SW2.0
CONTACT CERTIFY@ACE-BCX.COM OR (949) 770-2222



4 TBANS TO HOODSTAT TO TBCCB — NTS



6 TBANS TO TRANE RTU SHUTDOWN — NTS



5 TBANS TO LENNOX PRODIGY SHUTDOWN — NTS

	DATE	REMARKS
3	06.14.21	Issued for Bid

CONTRACT DATE:	12.1.20
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	Dickson
SITE NUMBER:	313798
STORE NUMBER:	451218
PA/PM:	JW
DRAWN BY.:	AS
JOB NO.:	2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

FOR REFERENCE ONLY

ENDEAVOR 1.0
ELECTRICAL DETAILS

E7.1

PLOT DATE: 6/14/2021 8:39:34 AM

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

TITLE	DESCRIPTION	SUPPLIER	MANUFACTURER'S MODEL	A&D ITEM #	ORDERED BY	SHIPPED BY	INSTALLED BY	SHOP DRAWINGS
6200	Roof Access Ladder & Hatch	Precision	FL 184 (Ladder) & PLHG (Hatch)	B-049 (Ladder) & B-050 (Hatch)	DIS	DIS	GC	
8341	Door - Security	LockNet	DU3670L52VED	-	RSCS	RSCS	GC	
10290-1	Air Curtain (D/T Window)	Marley	E2400-1115FG	B-151	DIS	DIS	GC	
10290-2	Air Curtain (Service Door)	Marley	E4200-1175	B-150	DIS	DIS	GC	
	Exterior Menu Board & Preview Board Housings	Everbrite	VARIES	-	CM (Company), CM or DIS (Franchise)	Manufacturer	Federal Heath Sign Co or GC	X
		Order Matic Corporation	VARIES					
	Interior Menuboard	VGS	VGS #MB-MBD-I-10P	L-016	DIS	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)	Cummings Signs	VARIES	VARIES	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
		Everbrite (Preferred Supplier)	VARIES	VARIES				
10536	Canopies	Cummings Signs	VARIES	VARIES	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
		Everbrite (Preferred Supplier)	VARIES	VARIES				
10810	Restroom Accessories	Accuserv	VARIES	F-452 (if indicated in plan set), B-241, B-265, B-275, B-290 (where occurs), B-291 (where occurs), B-300, B-305, B-405, B-410	DIS	DIS	GC	
11020-1	Safe	Brinks	Tidel Series 4 (duel single note validator, standard side vault)	F-174	CM	BRINKS	BRINKS	
11020-2	Security System	Tyco	-	-	CM	Manufacturer	GC	X
11030-1	Drive-thru Window	Quikserv	QKSRVSC4030BR	B-140	RSCS	Manufacturer	GC	
11030-3	Drive-thru Clearance Bar	Cummings Signs	-	-	CM	Manufacturer	GC	
		Everbrite (Preferred Supplier)	-	-				
11030-4	Drive-thru Sensor Loops	ERC Parts Inc.	WX8171	-	Manufacturer	Manufacturer	GC	
11100-3	P.O.S.	IBM	-	VARIES	TB / IT	Manufacturer	SSP	X
		NCR	-	VARIES				
		PAR	-	VARIES				
11100-4	Credit Card Payment System	Hughes Network Systems	-	-	TB / IT	Manufacturer	SSP	
11300-1	Order Confirmation Board (OCB)	Delphi Display Systems	P6YUC5STDUSVV1S; P6YOCSSTDUSEN1S	-	DIS	DIS	GC (see Scope of Work notes)	
		Hyperactive	TDMHX2H01TCB;TDMHX1H26	L-090				
		Texas Digital	AVNGE60	L-095				
11300-2	Drive-thru Speaker & Microphone	HME	C400005HS3TB; C11422TB	U-011; S-204	DIS	Manufacturer	GC	
		3M Food Services Trad Dept	78691149153; G55HSSINGLE	-				
11300-4	DT Canopy	Cummings Signs		V-350	CM, Franchisee or DIS on behalf of Franchisee	Manufacturer	GC (see Scope of Work notes)	X
		Everbrite (Preferred Supplier)						
11400-1	Kitchen Equipment	N. Wasserstrom (Franchise only)	VARIES	VARIES	DIS	DIS	GC (see General Comments)	X
		RSCS (Preferred Supplier)	VARIES	VARIES				
11400-5	GTO with EVO Production Line	Delfield	VARIES	VARIES	DIS	DIS	GC / Manufacturer (Local Installer)	X
		Duke	VARIES	VARIES				
		Carter Hoffman (EvO cabinets)	VARIES	VARIES				
11405-3	Kitchen Shelving / Workstations	I.S.S.	VARIES	VARIES	DIS	DIS	GC	
11405-4	Walk-In Cooler / Freezer (Panelized)	I.C.S.	VARIES	VARIES	GC	Manufacturer	GC or Manufacturer (up to CM's discretion)	X
		Norlake	VARIES	VARIES				
11425	Exhaust Hoods	Stratovent (preferred supplier)	VARIES	VARIES	DIS	DIS	GC	X
		Gaylord Industries (Boiler hood)	VARIES	VARIES				
		Randell (alternate supplier)	VARIES	VARIES				
11430-2	Drink Dispensers / Line Sets	Pepsi	-	-	RSCS	Pepsi	Pepsi (Local installer)	
11435-6	Ice Machines	Manitowoc Ice Inc & Hoshisaki	Manitowac SY-1474C	S-513	DIS	Manufacturer	Manufacturer (Local Installer)	
11680	Office Computer (Taco System)	En Pointe Global Services	VARIES	F-040, F-060	TB / IT	SSP	SSP	
12100-1	Artwork	GFX	VARIES	-	DIS	DIS	GC	
12400-5	Décor	Custom Seating (Company Supplier, base décor)	VARIES	-	DIS	DIS	GC	X
		FCI (Company Supplier, base décor)	VARIES	-				
		IDX	VARIES	-				
12430	Fruitista Machine	Equipment Delivery, Install and Activation	VARIES	VARIES	DIS - Equipment; GC - Installation & Setup (notify vendor 2 weeks from install date)	DIS	Service Agents - ICEE (East) or RepTec (West)	
		FBD Equipment Manufacturer	VARIES	VARIES				
		Cornelius	VARIES	VARIES				
		Taco Bell Engineering	VARIES	VARIES				
12440	Iced Tea	Pepsi	E56150000	S-546	DIS	Supplier	GC / Supplier	
13200	CO2 - Bulk	MVE (bulk tank)	VARIES	S-580	DIS	DIS	Manufacturer (Local Installer)	
		NU CO2 (CO2 and service)	VARIES	S-580				
13700-4	CCTV	MARTCO	-	-	RSCS	MARTCO	MARTCO	X
13800-1	Energy/Building Management System	Air Care Experts	TBCCB-Varies	-	DIS	DIS	GC	
		Air Care Experts	TBCCB-Varies	-	DIS	DIS	GC	
13800-2	Hood Shutdown System	Air Care Experts	TBANS	-	Contractor	Air Care	GC	
13900-1	Fire Suppression System	Ansul	-	-	GC	GC	GC (Local Installer)	
15410	Hand Sinks	Aero	HS-Mod	N-053	DIS	DIS	GC	
15470-5	Water Filter	Shurflo	WB6-M3-22-003	-	DIS	Manufacturer	GC (see Vendor Scope - Pepsi Drink System)	
15480-3	Water Heater	AO Smith (standard)	AO Smith BTH-120 (standard)	B-215	RSCS	RSCS	GC	
		Bradford White (alternate)	-	B-215				
	Water softener	-	-	-	RSCS	RSCS	GC	
15500-1	HVAC - Test and Balance	-	-	-	Determined by CM or RCM; Approved options - GC CM/RCM	Determine by CM or RCM; Approved options - GC CM/RCM	Determined by GC / CM / RCM	X
		Melink Corp/		-				
		Air Care Experts	-	-				
15500-2	Commissioning	Air Care Experts	-	-				
15500-3	Visual Verification	Air Care Experts	-	-	GC	Air Care Experts	GC	
15700-1	HVAC	Trane (Franchisee Only)	VARIES	-	GC	Manufacturer	GC	X
		Lennox (Company and Franchisee Stores)	VARIES	-				
		York international (Franchisee Only)	VARIES	-				
16300-1	Switchgear - Franchisee	Accuserv	Square-D and Cutler Hammer	VARIES	DIS	DIS	GC	X
		Capital Lighting	Square-D and Cutler Hammer	VARIES	DIS	DIS	GC	
16300-2	Switchgear - Company	Accuserv	Square-D and Cutler Hammer	VARIES	GC or RSCS (confirm with CM at time of bid)	GC	GC	X
		Capital Lighting	Square-D and Cutler Hammer	VARIES	GC or RSCS (confirm with CM at time of bid)	GC	GC	
16500	Light Fixtures - Interior and Building	Accuserv (all lighting except BOH & restrooms)	VARIES	-	DIS	DIS	GC	X
		Capitol Lighting	VARIES	-				
16520	Light Fixtures - Site	Accuserv	VARIES	-	DIS	DIS	GC	
		Capitol Lighting	VARIES	-	DIS	DIS	GC	
16720	Telephone Communications	YUM! Telecom (Company stores)	-	-	TB	Manufacturer	Manufacturer (Local Installer)	X
		By owner through local phone service provider (franchise)	-	-	Franchisee	Manufacturer	Manufacturer (Local Installer)	
16820-3	Music System	Mood Media	-	F-131	TB	Manufacturer	Manufacturer (Local Installer)	X
	Coffee Brewer	Bunn	42300.0008	S-547	RSCS	RSCS	GC	
	Floor and Wall Tile	Creative Materials	-	-	GC	Manufacturer	GC	X

GPD GROUP
Professional Corporation
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04.15.21	Plan Review Comments
3	06.14.21	Issued for Bid

CONTRACT DATE: 12.1.20
BUILDING TYPE: END. XS-6
PLAN VERSION: MARCH 2020
BRAND DESIGNER:
SITE NUMBER: 313798
STORE NUMBER: 451218
PA/PM: JW
DRAWN BY.:
JOB NO.: 2019088.10

TACO BELL

1519 SOUTHFIELD RD.
LINCOLN PARK, MI 48146

ENDEAVOR XS-6
SCOPE OF WORK

SW1.0

PLOT DATE: 6/14/2021 7:38:23 AM

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