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

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL™

LEGAL JURISDICTION:	ORANGE COUNTY BUILDING DIVISION
BUILDING CODE:	2020 FLORIDA BUILDING CODE
ACCESSIBILITY:	2020 FLORIDA BUILDING CODE
MECHANICAL:	2020 FLORIDA BUILDING CODE
PLUMBING:	2020 FLORIDA BUILDING CODE
ELECTRICAL:	2020 FLORIDA BUILDING CODE
FIRE:	2020 FLORIDA FIRE PREVENTION CODE
ENERGY:	2020 FLORIDA BUILDING CODE
BUILDING AREA:	2,090 S.F. GROSS
SEATING:	20 INTERIOR, 16 EXTERIOR
OCCUPANCY:	A2
TYPE CONSTRUCTION:	TYPE VB - UNPROTECTED NON-SPRINKLED

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

PROJECT SUMMARY

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

DESIGN CRITERIA

CURRENT ZONING: PD - HORIZON WEST TOWN CENTER

REFER TO CIVIL DRAWINGS.

FOR TACO BELL USE/APPROVAL ONLY

BUILDING S.F.:	2,090 S.F.
SITE SIZE:	33,467 S.F.
PARKING COUNT:	36
INT. SEATING:	20
EXT. SEATING:	16
KIOSK COUNT:	4
D.M.B.:	YES
DT DMP:	YES
DT DPB:	YES

LEGAL DESCRIPTION

NOTE:
ANY AND ALL SIGNAGE DEPICTED WITHIN THESE DRAWINGS ARE SCHEMATIC IN NATURE. ANY APPROVAL RECEIVED FOR THIS BUILDING PERMIT DOES NOT CONSTITUTE APPROVAL FOR THE CONSTRUCTION OF ANY SIGN/SIGN STRUCTURE COVERED WITHIN ORANGE COUNTY CODE SECTION 31.5. SIGNAGE MUST COMPLY WITH ORANGE COUNTY CODE SECTION 31.5 OR ANY APPLICABLE APPROVED SIGN PLAN. ALL PROPOSED SIGNAGE, INCLUDING SIGNAGE STRUCTURES, ARE REQUIRED TO SUBMIT A SEPARATE APPLICATION AND SHALL BE PROCESSED FOR REVIEW BY ZONING, BUILDING AND DEVELOPMENT ENGINEERING.

A. ALL WORK SHALL CONFORM TO THE 2020 EDITION OF THE FLORIDA BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND REGULATIONS OF THE CITY OF WINTER GARDEN AND COUNTY OF ORANGE.

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

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

D. DRAWINGS ARE BASED ON A SURVEY, DATED JUNE 10, 2021 PREPARED BY ACCURIGHT SURVEYS OF ORLANDO, INC. AND IS INCLUDED IN THESE DOCUMENTS.

E. THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL INVESTIGATION DATED MAY 24, 2021 BY INTERTEK-PSI. THE REPORT IS PART OF THESE CONTRACT DOCUMENTS, AND THE CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT ITS RECOMMENDATIONS, THOUGH SOME MAY NOT BE SPECIFICALLY DETAILED ON THE PLANS.

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

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

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

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

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

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

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

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

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

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

PROJECT GENERAL NOTES

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

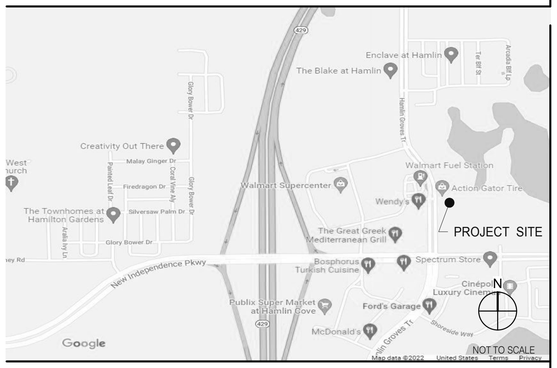
X — SHEAR WALL TYPE (STRUCTURAL)

XXX | 000 — EQUIPMENT / FIXTURE NUMBER (M.E.P)

GREEN — INDICATES SUSTAINABLE DESIGN

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

GENERAL DRAWING SYMBOLS



VICINITY MAP

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

ARCHITECT
MARK S. SALOPEK, LLC.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: JEREMY WHITE
PHONE: 330.572.2100

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

STRUCTURAL ENGINEER
GPD GROUP, INC.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: JEREMY WHITE
PHONE: 330.572.2100

CIVIL ENGINEER
GPD GROUP, INC.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: JEREMY WHITE
PHONE: 330.572.2100

M/E/P ENGINEER
GPD GROUP, INC.
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311
CONTACT: JEREMY WHITE
PHONE: 330.572.2100

GEOTECHNICAL ENGINEER
PROFESSIONAL SERVICE INDUSTRIES, INC.
1748 33rd Street
ORLANDO, FL 32839
CONTACT: VENKATA PRASHANTH MUPPANA
CONTACT: 407.304.5560

PROJECT DIRECTORY

SEWER
ORANGE COUNTY UTILITIES
9150 CURRY FORD RD., 2ND FLOOR
ORLANDO, FL 32825
PHONE: 407.254.9900

TELEPHONE
SPECTRUM
3767 ALL AMERICAN BLVD.
ORLANDO, FL 32810
CONTACT: TIMOTHY ROSS
PHONE: 407.532.8148

WATER
ORANGE COUNTY UTILITIES
9150 CURRY FORD RD., 2ND FLOOR
ORLANDO, FL 32825
CONTACT: GLADYS MERCADAL
PHONE: 407.836.5515

GAS
LAKE APOPKA NATURAL GAS DISTRICT
CONTACT: MONICA MARLOW
PHONE: 407.656.2734 X104

ELECTRIC
DUKE ENERGY
CONTACT: RANDY BASHORE
PHONE: 610.334.1372

UTILITY CONTACTS

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

	ISSUE 03.02.22	04.28.22	05.05.22
TITLE/GEN. CONDITIONS			
T1.0 TITLE SHEET	●	●	○
G1.0 GREEN CHECKLIST SHEET	●	○	○
G2.0 TRASH ENCLOSURE DETAILS	●	○	○
G3.0 PEST PREVENTION GUIDE	●	○	○
G4.0 LIFE SAFETY PLAN	●	●	○
G4.1 SIGNAGE DETAILS	●	○	○
TITLE/SITE SHEET COUNT: 6			
STRUCTURAL			
S0.1 STRUCTURAL GENERAL NOTES	●	○	○
S0.2 STRUCTURAL SPECIAL INSPECTIONS	●	○	○
S0.3 STRUCTURAL SPECIAL INSPECTIONS (CONT.)	●	○	○
S1.0 FOUNDATION PLAN	●	○	○
S2.0 WALL FRAMING PLAN	●	○	○
S3.0 ROOF FRAMING PLAN	●	○	○
S4.0 STRUCTURAL DETAILS FOUNDATION	●	○	○
S4.1 STRUCTURAL DETAILS FRAMING	●	○	○
S4.2 STRUCTURAL DETAILS FOUNDATION AND FRAMING	●	○	○
STRUCTURAL SHEET COUNT: 9			
CIVIL			
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	●	○	○
A5.5 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: 27			
ACCESSIBILITY			
ADA1.0 ACCESSIBILITY REQUIREMENTS	●	○	○
ADA1.1 ACCESSIBILITY REQUIREMENTS	●	○	○
ACCESSIBILITY SHEET COUNT: 2			
MECHANICAL			
M1.0 MECHANICAL SCHEDULES AND NOTES	●	○	○
M2.0 DUCT AND DIFFUSER PLAN	●	○	○
M2.1 MECHANICAL ROOF PLAN	●	○	○
M3.0 HOOD DETAILS AND SECTIONS	●	○	○
M4.0 MECHANICAL DETAILS	●	○	○
M5.0 CONTROLS DETAILS	●	○	○
MECHANICAL SHEET COUNT: 6			
PLUMBING			
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 DIAGRAMS AND LEGEND	●	○	○
E2.1 ELECTRICAL SCHEDULES	●	○	○
E2.2 ELECTRICAL SCHEDULES	●	○	○
E3.0 ELECTRICAL POWER PLAN	●	○	○
E3.1 ENLARGED POWER PLAN AND DETAILS	●	○	○
E3.2 ELECTRICAL POWER ROOF PLAN	●	○	○
E4.0 LIGHTING PLAN AND DETAILS	●	●	○
E5.0 COMMUNICATIONS PLAN	●	○	○
E6.0 ELECTRICAL DETAILS - TBCCB	●	○	○
E6.1 ELECTRICAL DETAILS - TBCCB	●	○	○
E7.0 ELECTRICAL DETAILS	●	○	○
E7.1 ELECTRICAL DETAILS	●	○	○
ELECTRICAL SHEET COUNT: 13			
SCOPE OF WORK			
SW1.0 SCOPE OF WORK	●	○	○
SW2.0 INSTALLATION START-UP PRE-COMM CHECK LIST	●	○	○
SW2.1 BALANCING AND COMISSIONING SEQUENCE	●	○	○
SCOPE OF WORK SHEET COUNT: 3			
SPECIFICATIONS			
IN BOOK FORMAT	●	○	○

SHEET INDEX

Mark S. Salopek, LLC
3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
1	04.28.22	NTP/ Plan Review Comments
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

ENDEAVOR 2.0
TITLE SHEET

T1.0

PLOT DATE: 5/3/2022 8:10:38 AM

C:\Users\mshaffer\Documents\TB 314877 Winter Garden FL_Arch_MShaffer.BPGGroup.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*KLA!"

FEASIBILITY | DESIGN | CONSTRUCTION | COMMISIONING

P = INDICATES THAT SCOPE IS ALREADY IN THE PROTOTYPE DRAWINGS

* = INDICATES OPTIONAL ITEMS

FORMALDEHYDE LIMITS
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ADHESIVE VOC LIMITS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

DATE	REMARKS
03.02.22	Issued for Permit
05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

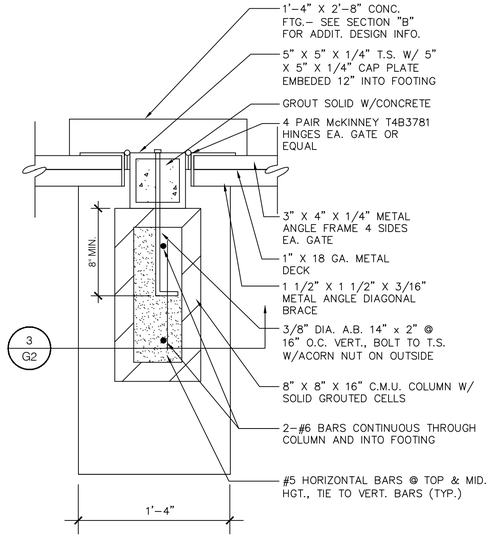
ENDEAVOR 2.0

GREEN CHECKLIST SHEET

G1.0

PLOT DATE: 5/3/2022 8:10:06 AM

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



JAMB DETAIL – 5

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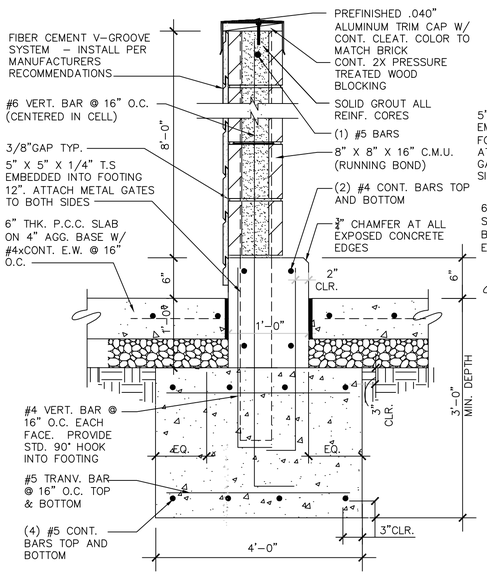

SECTION – 4

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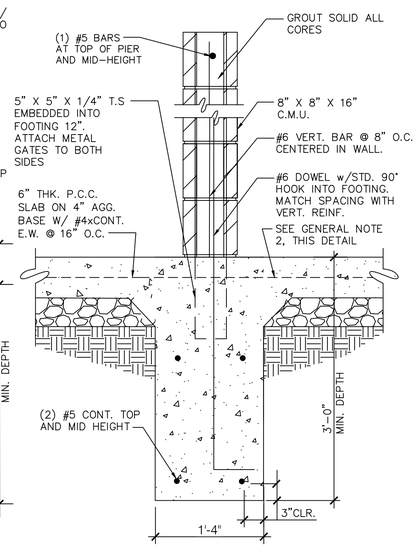

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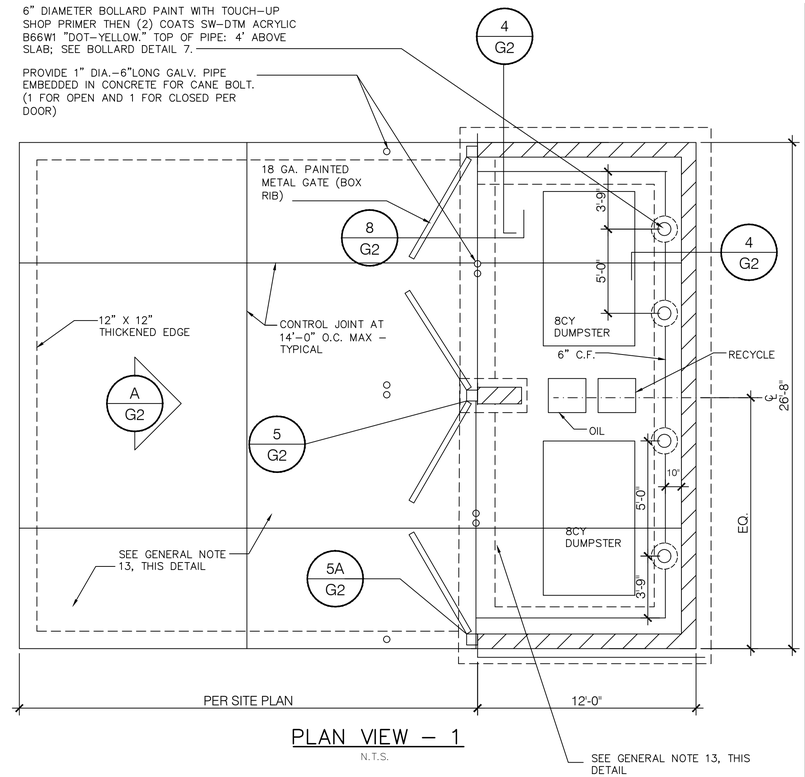

PLAN VIEW – 1

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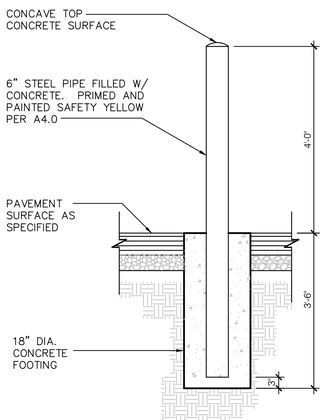


BOLLARD DETAIL – 7

N.T.S.

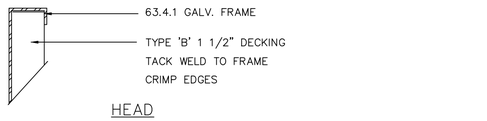
GATE NOTES:

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

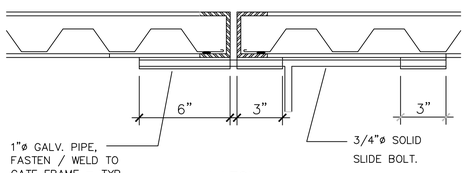
GATE HARDWARE:

ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVINIZED.

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



HEAD



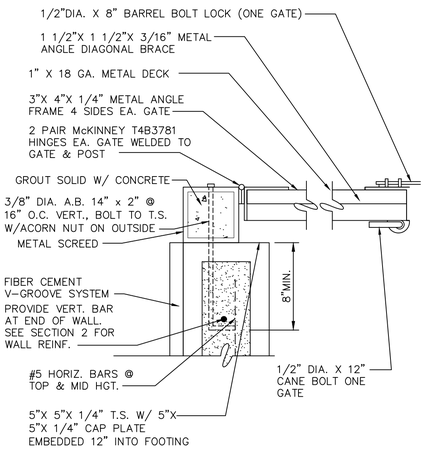
LATCH

NOTE:

PRIME AND PAINT ALL METAL WORK TO MATCH BLOCK WALL

GATE DETAILS – 6

N.T.S.



JAMB DETAIL – 5A

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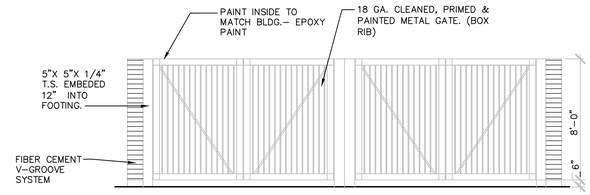

ELEVATION – 2

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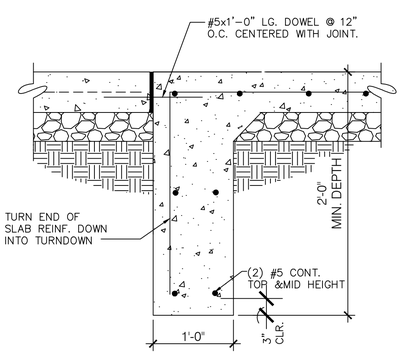

SECTION – 8

N.T.S.

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

TRASH ENCLOSURE DETAIL MATERIAL SPECIFICATIONS:
1. CONCRETE BLOCK: 6" MINIMUM IN SIZE. ASTM C90.
2. REINFORCING STEEL: ASTM 615. GRADE 60.
3. ACCEPTABLE SOIL TYPES:
A. MIN. ALLOWABLE BEARING: 2500 LBS'/SQ. FT
B. MIN. LATERAL BEARING: 100 LBS'/SQ. FT./FT.
C. MAX EXPANSION INDEX: 20
4.CONCRETE: 4000 LBS'/SQ. IN. IN 28 DAYS.
5. MORTAR: 1: 1/4: 3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND. BY VOLUME). MIXED TO PLASTIC CONSISTENCY.
6. GROUT: 1:1/10: 3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND BY VOLUME).MIX TO FLOW WITHOUT SEGREGATION. GROUT MAY CONTAIN 2 PARTS PEA GRAVEL (3/8" MAX. SIZE).
MINIMUM COMPRESSIVE STRENGTH: 2000 LBS/SQ. IN.

GENERAL NOTES:
1. FOOTINGS SHALL EXTEND 3'–6" MINIMUM BELOW FINISH GRADE AND SHALL BE IN NATURAL SOIL OR CERTIFIED FILL..
2. BLOCKS TO BE STAGGERED (RUNNING BOND).
3. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE GROUTED.
4. APPROVED GROUT STOPS ARE REQUIRED BELOW HORIZONTAL STEEL IN PARTIALLY GROUTED WALLS. BAGS. NEWSPAPERS, ETC. ARE NOT APPROVED GROUT STOPS.
5. INITIAL BED JOINT SHALL BE 1/4"MIN. 1 "MAX. SUBSEQUENT BED JOINTS SHALL BE ¼"– MIN., ⅝" MAX.
6. VERTICAL CONTINUITY OF CELLS SHALL BE UNOBSTRUCTED. MORTAR PROJECTIONS SHALL NOT EXCEED ½" FOR 6" AND LARGER BLOCK. MORTAR DROPPINGS OR OTHER FOREIGN MATTER ARE NOT PERMITTED IN CELLS AND MUST BE REMOVED.
7. EXPANSION JOINTS REQUIRED AT 30'–0· MAX. INTERVALS.
8. REQUIRED BAR LAPS:
A. VERTICAL STEEL : 48 BAR DIAMETERS.
B. HORIZONTAL STEEL: 48 BAR DIAMETERS.
C. WIRE JOINT REINFORCEMENT IN THE MORTARED BED JOINT: 75 WIRE DIAMETERS OR IN ALTERNATE BED JOINTS OF RUNNING BOND. 54 DIAMETERS PLUS TWICE THE BED JOINT SPACING.
9. WHERE HORIZONTAL WIRE JOINT REINFORCEMENT IS REQUIRED OR UTILIZED. IT SHALL BE EQUIVALENT TO TWO 3/16' DIAMETER BARS CONNECTED AT 16" INTERVALS BY NO. 9 GAUGE WELDED WIRE.
10. 3" MIN. COVER REQUIRED FOR REINFORCEMENT IN CONCRETE WHICH IS CAST AGAINST EARTH.
11. 8" THICK CONCRETE SLAB OVER 6" THICK CRUSHED AGGREGATE. 12"X12" THICKENED EDGE FOR APPROACH SLAB. #4 REBAR @ 1'–0" O.C. EACH WAY.

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

Mark S. Salopek, LLC

3638 West Galloway Drive
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	DATE	REMARKS
	03.02.22	Issued for Permit
	05.05.22	Issued for Bid

CONTRACT DATE: 08.19.21
BUILDING TYPE: END. 20
PLAN VERSION: MARCH 2021
BRAND DESIGNER:
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: -
JOB NO.: 2021088.17

PROJECT NAME

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

ENDEAVOR 2.0

TRASH ENCLOSURE DETAILS

G2.0

PLOT DATE: 8/19/2021 10:08:35 AM

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.

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

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

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

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

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

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

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

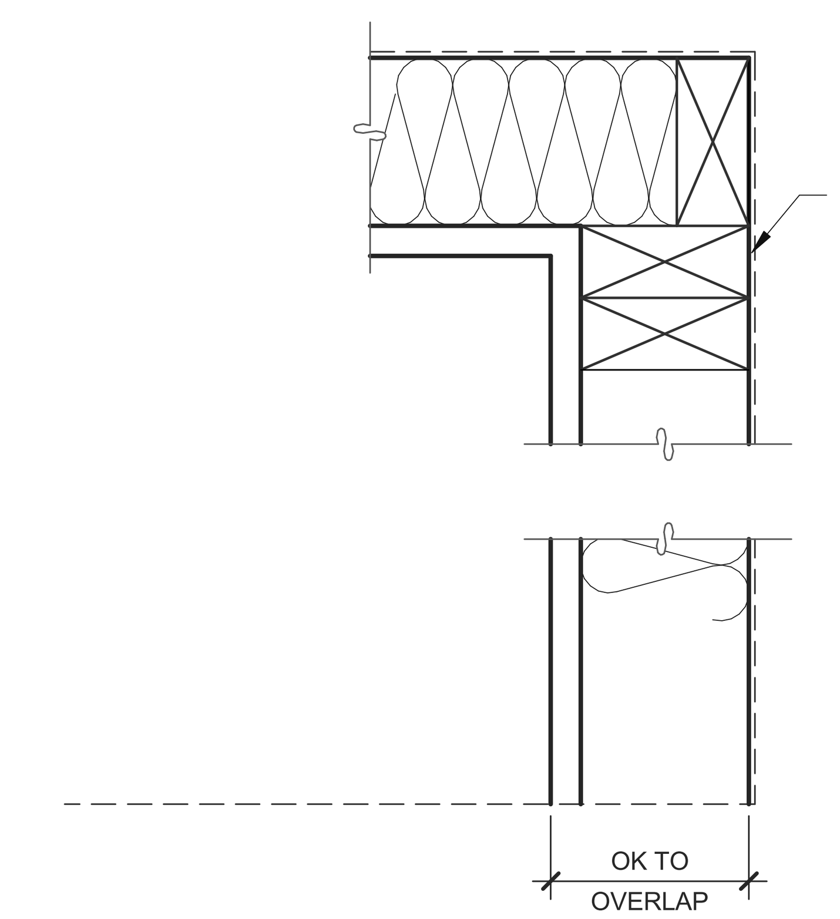
2. SCREENING MATERIALS:
• STEEL WOOL IS USED TO PLUG SMALL OPENINGS WHERE PESTS MAY ENTER OR MOVE WITHIN STRUCTURES. STEEL WOOL IS USEFUL WHERE AIR MOVEMENT IS DESIRED, BUT THERE IS LOW HUMIDITY ONLY. STEEL WOOL WILL RUST, SO IT SHOULD NOT BE USED IN AREAS OF HIGH MOISTURE. • COPPER MESH IS USED IN LOCATIONS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

CONSTRUCTION CHECKLIST:

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

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

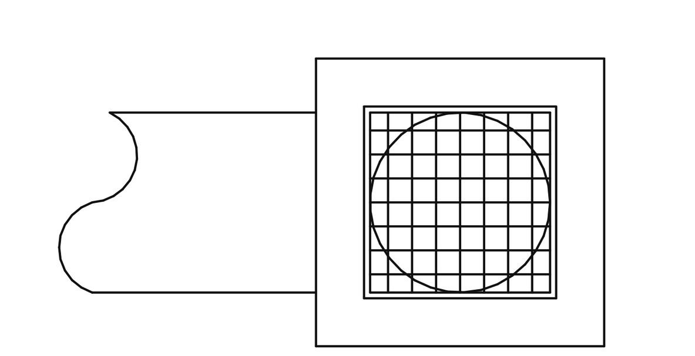
*ADDITIONAL VISITS MAY BE REQUIRED PER PEST VENDOR RECOMMENDATION.



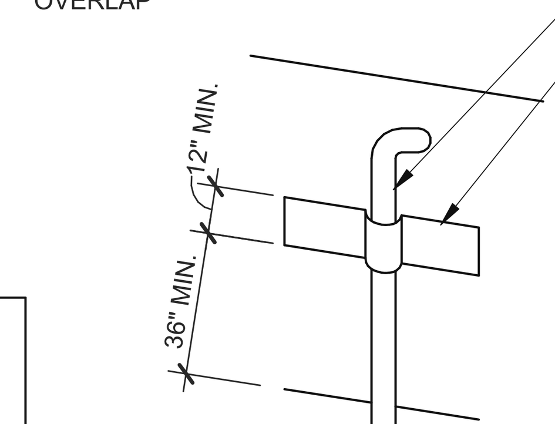
1/4" MESH

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

CEILING/WALL/FLOOR



VENTS



EXTERIOR PIPE
SMOOTH METAL GUARD

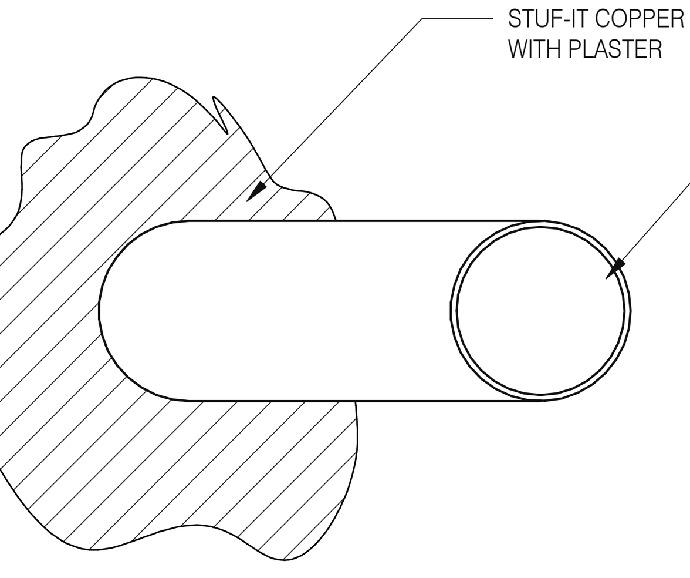
EXTERIOR PIPES

OTHER AREAS RAT PROOFING IS REQUIRED:

· TOILET GUARDS

· FLOOR TRAPS WITH LATCH GRATES

· MESH OVER SEWER ROOF VENTS



STUF-IT COPPER GAUZE WITH PLASTER

PIPE

PIPE PENETRATIONS

RAT PROOFING DETAILS

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
	05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
PEST PREVENTION GUIDE

G3.0

PLOT DATE: 5/3/2022 8:10:10 AM

C:\Users\mshaffer\Documents\TB 314877 Winter Garden FL_Arch_MShafferGPDGroup.rvt

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

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

EGRESS WIDTH REQ'D - 4.0"
EGRESS WIDTH PROVIDED - 33"
MAXIMUM OCC. LOAD CAPACITY - 135
ACTUAL OCC. LOAD - 40/2 = 20 OCC.

TYPE	AREA		FACTOR			OCCUPANTS
DINING ROOM/QUEUING	507	S.F.	1:15	S.F.	(NET)	34
BENCH SEATING	108	L.I.	1/18	L.I.		6
KITCHEN	1008	S.F.	1:100	S.F.	(GROSS)	11
OFFICE	72	S.F.	1:100	S.F.	(GROSS)	1
ACCESSORY STORAGE	173	S.F.	1:500	S.F.	(GROSS)	1
ACCESSORY RESTROOMS & PASSAGE	283	S.F.	0		(GROSS)	0
TOTAL						53

EMERGENCY EXIT

TRAVEL DISTANCE

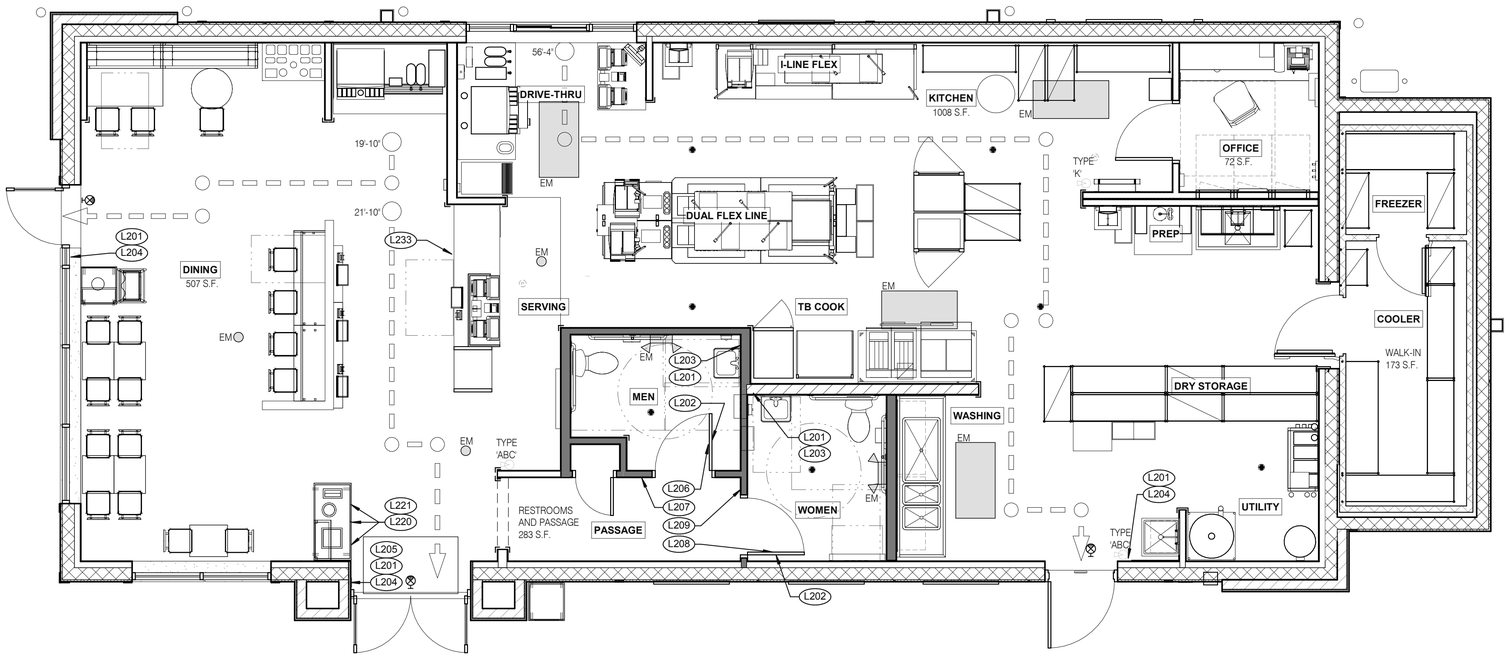
FIRE EXTINGUISHER

EXIT SIGNS

EMERGENCY EGRESS CAN LIGHT

EMERGENCY EGRESS 2X4 LIGHT

EMERGENCY EGRESS DUAL HEAD



EGRESS WIDTH REQ'D - 4.0"
EGRESS WIDTH PROVIDED - 54"
MAXIMUM OCC. LOAD CAPACITY - 270
ACTUAL OCC. LOAD - 40/2 = 20 OCC.

EGRESS WIDTH REQ'D - 1.6" (KITCHEN ONLY)
EGRESS WIDTH PROVIDED - 39"
MAXIMUM OCC. LOAD CAPACITY - 195
ACTUAL OCC. LOAD - 13 OCC.

N

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

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

TAG	SIGN DESCRIPTION	SIGN VERBIAGE	SIZE	MOUNTING HEIGHT	QTY	LOCATION IN RESTAURANT	LOCATION EQUIVALENT
L220	Landfill / Compost / Recycle	Landfill / Compost / Recycle	1/16 x 8.5 x 3	SEE 4/G4.0	SET OF 3	Mount on front doors of trash receptacle at top. MUST ALSO ORDER L222. Match label with shape on top of trash receptacle	L221 (use if restaurant is NOT COMPOSTING)
L221	Landfill / Plastic, Metal, Glass / Paper	Landfill / Plastic, Metal, Glass / Paper	1/16 x 8.5 x 3	SEE 4/G4.0	SET OF 3	Mount on front doors of trash receptacle at top. MUST ALSO ORDER L223. Match label with shape on top of trash receptacle	L220 (use if restaurant is COMPOSTING)

STANDARD REQUIRED SIGNAGE | **3**

NOT USED | **2**

	DATE	REMARKS
	03.02.22	Issued for Permit
1	04.28.22	NTP/ Plan Review Comments
	05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
LIFE SAFETY PLAN

G4.0

PLOT DATE: 5/3/2022 8:10:32 AM

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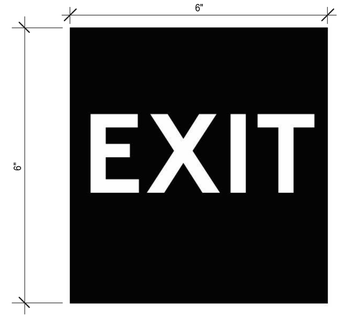
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

3 STREAM TRASH 1 - BIN LABELS (L220)	13

WOMEN RESTROOM WHITE SIGN (L208)	9

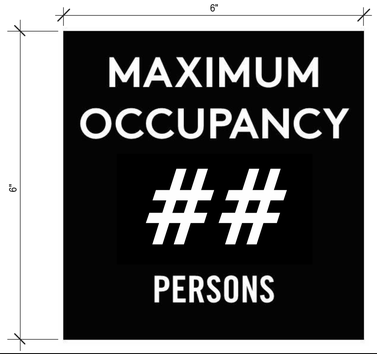


EXIT BRAILE SIGN (L204)	5

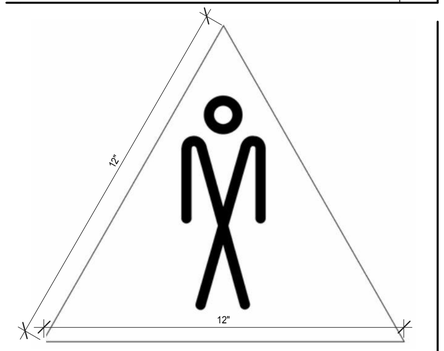
NO SMOKING SIGN (L201)	1

3 STREAM TRASH 2 - LABELS (L221)	14

WOMEN RESTROOM BRAILLE SIGN (L209)	10



OCCUPANCY SIGN (L205)	6



MEN RESTROOM WHITE SIGN (L206)	7

CLEAN RESTROOM SIGN (L202)	3

IF YOU NEED ASSISTANCE (L233)	12

MEN RESTROOM BRAILE SIGN (L207)	8

HAND WASH NOTICE SIGN (L203)	4

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
SIGNAGE DETAILS

G4.1

PLOT DATE: 5/3/2022 8:10:36 AM

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GOVERNING BUILDING CODE:

GOVERNING BUILDING CODE: 2020 FLORIDA BUILDING CODE

DESIGN LOADING:

DESIGN LOADS:

2020 FLORIDA BUILDING CODE

A. ROOF LIVE LOAD — 20 PSF
B. FLOOR LIVE LOAD (RETAIL FIRST FLOOR) — 100 PSF
C. ROOF SNOW LOADS
  GROUND SNOW LOAD (Pg) — 0 PSF

D. DEAD LOADS — ACTUAL MATERIAL WEIGHTS

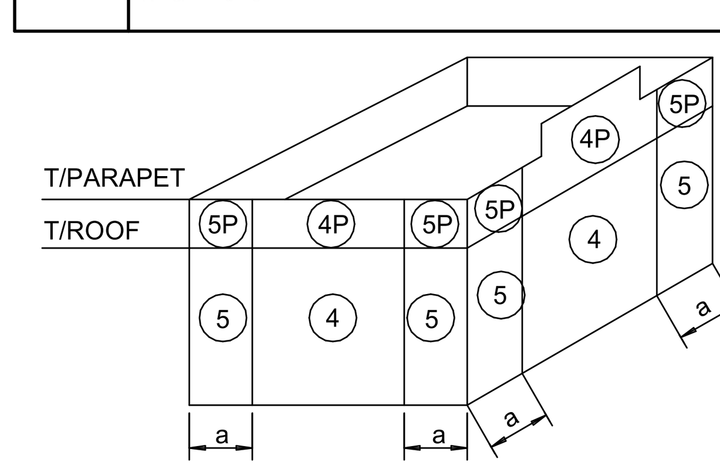
E. WIND LOADS
  V (ULTIMATE) — 140 MPH
  V (NOMINAL) 3 SECOND GUST — 110 MPH
  IMPORTANCE FACTOR — 1.0
  RISK CATEGORY — II
  EXPOSURE CATEGORY — B
  INTERNAL PRESSURE COEF. — ±.18

F. SEISMIC LOADS
  SEISMIC IMPORTANCE FACTOR: — 1.0
  BUILDING OCCUPANCY CATEGORY: — II
  SITE CLASS — D
    Ss: — 0.062
    S1: — 0.033
  SPECTRAL RESPONSE COEFF:
    SHOR PERIOD (SDS): — 0.066
    1 SEC. PERIODS (SD1): — 0.053
  SEISMIC DESIGN CATEGORY: — A
  BASIC SEISMIC FORCE RESISTING SYSTEM:
    BASIC FRAMING SYSTEM: — LOAD BEARING WALLS
    SEISMIC RESISTING SYSTEM: — ORDINARY REINFORCED MASONRY SHEAR WALLS
    DEFLECTION AMPLIFICATION FACTOR (Cd) — 1.75
    RESPONSE MOD. FACTOR (R) — 2.0
    OVERSTRENGTH FACTOR (Ω) — 2.5
    SEISMIC RESPONSE COEFF (Cs) — 0.01
    BASE SHEAR (V) — 1.0 KIPS
ANALYSIS BY EQUIVALENT LATERAL FORCE PROCEDURE

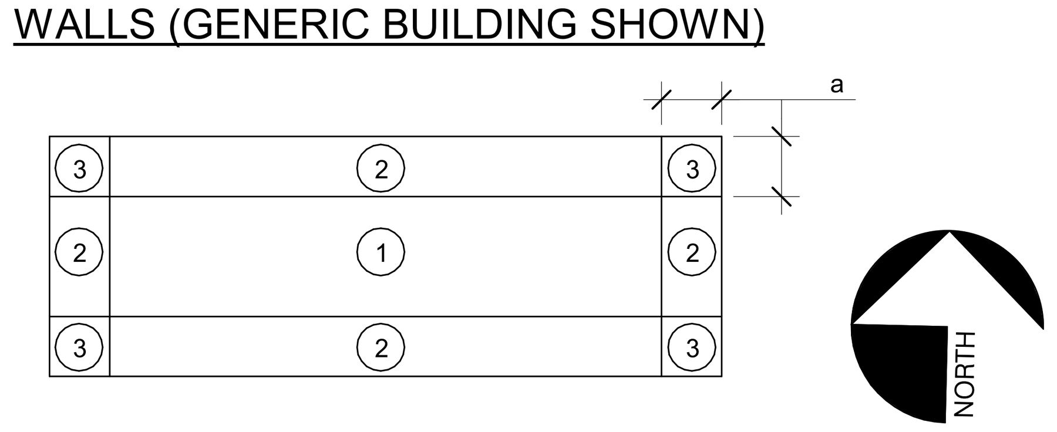
G. INTERIOR NON-BEARING PARTITION LOAD (WIND) — 10 PSF

C&C Wind Pressures

	Zone:	10 SF	50 SF	100 SF
Roof:	1	16.00 psf	16.00 psf	16.00 psf
		-48.0 psf	-48.0 psf	-48.0 psf
	2	16.00 psf	16.00 psf	16.00 psf
		-56.7 psf	-54.6 psf	-52.4 psf
	3	16.00 psf	16.00 psf	16.00 psf
		-78.6 psf	-69.8 psf	-61.1 psf
	Overhang Zone 2	-69.8 psf	-68.7 psf	-67.6 psf
	Overhang Zone 3	-113.5 psf	-91.6 psf	-82.9 psf
Walls:	4	40.5 psf	38.8 psf	37.1 psf
		-31.6 psf	-29.9 psf	-26.4 psf
	5	40.5 psf	38.8 psf	37.1 psf
		-41.9 psf	-38.5 psf	-26.4 psf
Parapet:	4p	97.2 psf	93.3 psf	89.4 psf
		-72.1 psf	-68.7psf	-63.5 psf
	5p	154.0 psf	130.5 psf	120.0 psf
		-82.4 psf	-77.2 psf	-70.4 psf
Notes:	1.TRIBUTARY PRESSURES ARE FOR THE SQUARE FOOT (SF) TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE. 2.POSITIVE PRESSURES ACT TOWARD THE BUILDING. NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING. 3. ALL WIND PRESSURES IN THE TABLE ARE BASED ON ULTIMATE WINDSPEEDS. TO CONVERT TO NOMINAL WIND PRESSURES MULTIPLE VALUES BY 0.6. 4. "a" = 3'-0"			



WALLS (GENERIC BUILDING SHOWN)



ROOF (GENERIC BUILDING SHOWN)

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GENERAL PROVISIONS:

TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS OTHERWISE NOTED.

DRAWINGS ARE NOT TO BE SCALED.

FOR DIMENSIONS NOT SHOWN, COORDINATE WITH ARCHITECTURAL DRAWINGS.

THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED, VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS, AND DETERMINE THE EXTENT OF WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.

EXISTING CONDITIONS, AS SHOWN ON THESE PLANS, ARE FOR REFERENCE ONLY. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL ASSUME THE MOST STRINGENT REQUIREMENTS APPLY IN CASE OF CONFLICT AMONG SPECIFICATIONS, STANDARDS, CODES AND DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY TO RESOLVE THE CONFLICT.

ANY DEVIATION, MODIFICATION, OR SUBSTITUTION FROM THE BID SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS. WITHOUT SUCH PRIOR APPROVAL, DEVIATIONS, MODIFICATIONS, OR SUBSTITUTIONS WILL BE REJECTED. COSTS FOR DEMOLITION AND REWORK OF SUCH ITEMS WILL BE BORNE BY THE CONTRACTOR.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED FOR IN-SERVICE LOADS ONLY. THE MEANS, METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHICH INCLUDE THE DETERMINATION OF ALLOWABLE CONSTRUCTION LOADING OF THE STRUCTURE. THE CONTRACTOR SHALL PROVIDE, DESIGN, MONITOR, AND MAINTAIN ALL NECESSARY TEMPORARY AND PERMANENT SYSTEMS (SHORING, BRACING, GUYS, FALSEWORK, FORMWORK, SHEETING, ETC.) TO ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. ANY SYSTEMS SHOWN ON THE DOCUMENTS ARE PARTIAL AND SCHEMATIC IN NATURE AND EXTENTS ARE NOT ALL INCLUSIVE. ALL WORK SHALL BE PERFORMED WITHOUT DAMAGE TO ADJACENT EXISTING WORK. SHORING SYSTEMS SHALL BE DESIGNED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.

THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW THE STRUCTURAL CONTRACT DOCUMENTS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS BETWEEN THOSE DOCUMENTS AND ANY SAFETY REGULATIONS. SUCH REVIEW AND NOTIFICATION SHALL OCCUR PRIOR TO PRODUCTION OF SHOP DRAWINGS.

THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS, AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.

SITE VISITS PREFORMED BY THE ARCHITECT/ENGINEER DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PREFORMED BY THE CONTRACTOR.

STRUCTURAL OBSERVATIONS PERFORMED BY THE ARCHITECT/ENGINEER DURING CONSTRUCTION ARE NOT THE CONTINUOUS AND SPECIAL INSPECTION SERVICES AND DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING DEPARTMENT INSPECTOR OR THE TESTING AGENCY. ALSO, OBSERVATIONS DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.

ALL WALLS, FLOORS, AND ROOF MEMBERS SHALL BE SECURELY SHORED AND BRACED AT ALL TIMES DURING CONSTRUCTION.

NO PIPES OR DUCTS SHALL BE EMBEDDED INTO STRUCTURAL MEMBERS UNLESS SO SHOWN ON THE PLANS OR APPROVED BY THE ENGINEER.

NO STRUCTURAL ELEMENTS ARE TO BE CUT UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

SHOP DRAWINGS:

REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

REPRODUCTION OF THE STRUCTURAL DRAWINGS FOR USE IN PREPARATION OF SHOP DRAWINGS IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. SHOP DRAWINGS SUBMITTED WITH REPRODUCED STRUCTURAL DRAWINGS AND/OR DETAILS WITHOUT CONSENT WILL BE REJECTED.

SUBMIT SHOP DRAWINGS 15 BUSINESS DAYS (MINIMUM) PRIOR TO DATE THAT RETURNED SHOP DRAWINGS ARE REQUIRED.

SHOP DRAWINGS SHALL BEAR THE CONTRACTORS STAMP OF APPROVAL, WHICH SHALL CONSTITUTE CERTIFICATION THAT ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, AND MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS HAVE BEEN VERIFIED AND EACH DRAWING HAS BEEN CHECKED FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, LAUNDRY AND FOOD SERVICE DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS DURING SHOP DRAWING PREPARATION.

WHERE A DELEGATED DESIGN IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR EACH ITEM, COMPONENT, AND CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED ENGINEER (IN THE PROJECT'S JURISDICTION). DRAWINGS AND CALCULATIONS SHALL SHOW LOCATIONS AND MAGNITUDES OF LOADS IMPOSED ON THE STRUCTURE. THE ENGINEER OF RECORD RESERVES THE RIGHT TO MODIFY LOAD PATH SUGGESTED BY THE DELEGATED DESIGN ENGINEER.

DELEGATED DESIGN:

CONTRACTOR IS RESPONSIBLE FOR DESIGN OF THE FOLLOWING ITEMS INCLUDING DESIGN OF THE CONNECTIONS OF EACH ITEM TO THE SUPPORTING STRUCTURAL FRAMING

- OPEN-WEBBED STEEL JOISTS AND JOIST GIRDERS
- CLADDING (SEPARATE PERMIT)
- CANOPIES AND OVERHANGS (SEPARATE PERMIT)
- PRE-FABRICATED TOWERS & PANELS

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH ITEM LISTED ABOVE. REFER TO THE "SHOP DRAWING" SECTION UNDER THE GENERAL NOTES FOR ADDITIONAL INFORMATION.

INFORMATION SHOWN IN THE CONTRACT DOCUMENTS (E.G., DEPTHS, GAGES, SPACING, PLYS, ETC.) ARE CONSIDERED MINIMUMS AND ARE SCHEMATIC IN NATURE. INCREASED GAGE/PLYS AND/OR DECREASED SPACINGS MAY BE REQUIRED AND SHALL BE COMPLETED AT NO CHARGE TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF THE FOLLOWING ITEMS INCLUDING DESIGN OF THE CONNECTIONS OF EACH ITEM TO THE SUPPORTING STRUCTURAL FRAMING:

EARTHWORK/SUBSURFACE INVESTIGATION:

GENERAL:

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:

PROFESSIONAL SERVICES, INC. PROJECT NO. 07572612, DATED MAY 24, 2021.

PROOFROLLING:

PRIOR TO EXCAVATION FOR STRUCTURES, PROOFROLL BUILDING AND PAVEMENT AREAS USING A HEAVILY LOADED DUMP TRUCK OR SIMILARLY HEAVILY LOADED VEHICLE. ALL SOFT, LOOSE OR UNSTABLE AREAS ARE TO BE STABILIZED WITH ADDITIONAL COMPACTION OR UNDERCUT AND REPLACED WITH ENGINEERED FILL.

ENGINEERED FILL:

ENGINEERED FILL SHALL BE WELL GRADED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL, FROZEN MATERIALS, BRICK, LIME, CONCRETE AND OTHER MATERIALS THAT WOULD PREVENT ADEQUATE PERFORMANCE. FILL SHALL CONFORM TO ASTM D2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP OR SM.

UNLESS OTHERWISE NOTED, THE PROPOSED ENGINEERED FILL MATERIALS ARE TO BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES IN LOOSE MEASURED THICKNESS. EACH LIFT IS TO BE COMPACTED A MINIMUM OF 98% MAXIMUM DENSITY BY ASTM D698.

THE EARTHWORK PROGRAM SHOULD BE CONDUCTED UNDER THE SUPERVISION OF A SOILS LABORATORY.

THE IN-PLACE DENSITIES ACHIEVED ARE TO BE VERIFIED BY TEST.

BACKFILL:

BACKFILL OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT.

BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION.

PRIOR TO BACKFILL OPERATIONS AGAINST FOUNDATION WALLS, THE WALLS SHALL BE PROPERLY SHORED TO RESIST THE LATERAL FORCE OF THE BACKFILL AND ASSOCIATED EQUIPMENT. LATERAL SHORES MAY BE ELIMINATED WHERE THE FLOOR SLAB CONNECTING TO THE WALLS HAS ACHIEVED THEIR DESIGN STRENGTH.

WHERE FINAL GRADES ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL EQUALLY ON BOTH SIDES OF THE WALL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS TO WITHIN 1'-0" AT ANY GIVEN TIME.

FOUNDATION SYSTEMS:

GENERAL:

THE CONTRACTOR SHALL STUDY THE GEOTECHNICAL INVESTIGATION REPORT (REFER TO THE "EARTHWORK/SUBSURFACE INVESTIGATION" SECTION UNDER THE GENERAL NOTES") AND VISIT THE SITE PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL VERIFY ANY EXISTING FIELD CONDITION THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM.

THE CONTRACTOR SHALL EXERCISE GREAT CARE DURING EXCAVATION. UNDERGROUND UTILITY LOCATIONS, IF SHOWN, ARE APPROXIMATE. THE CONTRACTOR SHALL PREDETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE SUPPORT OF UTILITIES ACROSS EXCAVATIONS.

SHEETING, SHORING, AND DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR.

A SOILS TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PROVIDE CONSTRUCTION REVIEW TO ENSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS DURING THE EXCAVATIONS, BACKFILL, AND FOUNDATION PHASES OF THE PROJECT.

BOTTOM OF ALL EXTERIOR FOOTINGS/GRADE BEAMS SHALL BEAR A MINIMUM OF 1'-6" BELOW ADJACENT FINAL GRADE.

SPREAD/TRENCH FOOTINGS:

BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT. DETERMINATION OF FINAL BEARING ELEVATIONS, TOPSOIL AND EXCAVATION STRIPPING DEPTH, INSPECTION OF ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, EXCAVATION OPERATIONS, APPROVAL OF FILL MATERIALS, DENSITY TESTING OF FILLS TO ENSURE PLACEMENT PER SPECIFICATION REQUIREMENTS, INSPECT FOUNDATION BEARING SURFACES, AND VERIFY ALLOWABLE BEARING PRESSURES IS THE TESTING LABORATORIES RESPONSIBILITY.

ALL FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED SOIL OR COMPACTED FILL FREE FROM ORGANIC
MATTER. IF POOR SOIL CONDITIONS ARE ENCOUNTERED AT FOUNDATION DEPTHS SHOWN, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH CONSTRUCTION.

FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2500 PSF.

NEW FOOTINGS PLACED ADJACENT TO EXISTING FOOTINGS SHALL BEAR AT THE SAME ELEVATION, UNLESS NOTED OTHERWISE.

STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.

INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.

UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.

STEEL JOISTS:

STEEL JOIST DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO SJI 100-15 SPECIFICATIONS AND CODE OF STANDARD PRACTICE OF THE STEEL JOIST INSTITUTE OR AS SHOWN ON THE DRAWINGS.

PROVIDE HORIZONTAL AND/OR DIAGONAL BRIDGING PER SJI REQUIREMENTS.

NO LIGHT GAGE FRAMING, MECHANICAL, ELECTRICAL, OR OTHER EQUIPMENT SHALL BE SUSPENDED FROM OR ATTACHED TO ANY INTERIOR BRIDGING.

AT ALL CONCENTRATED LOADS NOT LOCATED AT JOIST PANEL POINTS, HANGING FROM TOP OR BOTTOM JOIST CHORDS, FIELD WELD ADDITIONAL WEB ANGLE 2x2x1/4 FROM LOAD LOCATION TO ADJACENT PANEL POINT.

GENERAL CONTRACTOR SHALL VERIFY ALL STRUCTURAL STEEL JOIST LOCATIONS, MECHANICAL UNIT WEIGHTS AND OPENING SIZES AND LOCATIONS WITH MECHANICAL CONTRACTOR AND VENDOR'S DRAWINGS FOR ACTUAL MECHANICAL UNITS PURCHASED.

CONCRETE:

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE.

ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAIL REINFORCED CONCRETE STRUCTURES" UNLESS NOTED OTHERWISE.

SAFETY AND PERFORMANCE OF THE STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INSOFAR AS THEY ARE AFFECTED BY THE LOCATION AND DETAILS OF CONSTRUCTION JOINTS. SHOP DRAWINGS OF THE PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS ARE TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.

ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:

ALL CONCRETE - 4000 PSI

ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 5% (± 1%) AIR ENTRAINMENT.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A1064 AND BE FURNISHED IN FLAT SHEETS AND INSTALLED ON CHAIRS OR PRECAST CONCRETE BLOCKS.

NO TACK WELDING OF REINFORCING IN THE FIELD IS PERMITTED.

PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.

PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS.

REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4000 PSI CONCRETE

	OTHER		TOP*	
BAR SIZE	ANCHORAGE	SPLICE	ANCHORAGE	SPLICE
# 3	15	19	19	24
# 4	19	25	25	33
# 5	24	31	31	41
# 6	29	37	37	49
# 7	42	54	54	71
# 8	48	62	62	81
# 9	54	70	70	91
#10	60	78	78	101
#11	66	85	85	111

* HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW BAR

MASONRY:

ALL BRICK MASONRY SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA AND LOCAL BUILDING CODE REQUIREMENTS.)

ALL CONCRETE MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (TMS 402-16) AND "SPECIFICATION FOR MASONRY STRUCTURES" (TMS 602-16) AND LOCAL BUILDING CODE REQUIREMENTS.

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, TYPE I OR II WITH MIN. COMPRESSIVE STRENGTH OF 2800 PSI.

ASTM C270, TYPE "S" MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI SHALL BE USED FOR ALL MASONRY WALLS.

GROUT TO FILL CORES SHALL BE ASTM C476, COARSE GROUT (3/8" MAXIMUM AGGREGATE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

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.

MASONRY SHALL BE LAID IN RUNNING BOND, UNLESS NOTED OTHERWISE.

VERTICAL REINFORCING LAP SPLICES SHALL BE 48 BAR DIAMETERS.

PROVIDE HORIZONTAL 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.

MAXIMUM GROUT POUR SHALL BE 5 FEET. CONSOLIDATE BY MECHANICAL VIBRATION.

MORTAR PROTRUSIONS, EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND FILLED, SHALL BE REMOVED.

GROUT A MINIMUM OF 16 INCHES x 24 INCHES WIDE UNDER ALL BEAM BEARINGS AND 8" UNDER ALL LINTEL BEARINGS.

GROUT A MINIMUM OF 8 INCHES x 24 INCHES WIDE UNDER ALL JOIST BEARINGS.

GROUT CORES SOLID A MINIMUM OF ONE COURSE BELOW ANY CHANGE IN WALL THICKNESS.

FILL ALL BEARING POCKETS WITH SOLID MASONRY AFTER INSTALLING BEAMS.

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.

ALL CORNERS ARE TO BE TIED BY MASONRY BOND.

ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT APPROXIMATELY 20' O.C. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DRAWINGS.

PROVIDE MATERIAL/MEANS TO DEBOND MORTAR FROM DISSIMILAR MATERIALS IN ALL VENEERS (I.E., CAST-STONE AND CLAY BRICK, CONCRETE BLOCK AND CLAY BRICK, ETC.)

METAL ROOF DECKING:

DECK AND ACCESSORIES SHALL BE CLEANED AND GIVEN A PHOSPHATE TREATMENT AND A SHOP PRIME COAT OF RUST INHIBITIVE PAINT.

DECK AND ACCESSORIES THAT ARE TO RECEIVE SPRAY FIREPROOFING SHALL BE GALVANIZED.

CONNECTIONS TO STEEL SUPPORTS SHALL BE FUSION TYPE WELDS PERFORMED BY COMPETENT WELDERS WHO HAVE QUALIFIED BY TESTS AS PRESCRIBED BY THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED. THE FIRST AND LAST RIBS OF EACH SHEET MUST BE WELDED TO ALL SUPPORTS. END WELDS AND THOSE OCCURRING AT LAPS SHALL BE WELDED THROUGH ALL THICKNESSES. SIDE JOINTS SHALL BE MECHANICALLY FASTENED AT MID-SPAN (UNO)

NO LIGHT GAGE FRAMING, MECHANICAL, ELECTRICAL OR OTHER EQUIPMENT SHALL BE SUSPENDED FROM OR ATTACHED TO ANY METAL ROOF DECK.

OPENINGS SMALLER THAN 12" SQUARE ARE TO BE CUT BY INDIVIDUAL TRADE AND FLASHED BY ROOFING/SIDING CONTRACTOR. ALL LARGER OPENINGS TO BE CUT AND FLASHED BY ROOFING/SIDING CONTRACTOR WITH OPEN EDGES SUPPORTED BY STRUCTURAL STEEL.

STRUCTURAL STEEL:

MATERIAL PROPERTIES:

W SHAPES:	ASTM A992 (Fy = 50 KSI)
M,S,C SHAPES:	ASTM A36 UNO
PLATE, ANGLES:	ASTM A36 UNO
PIPE:	ASTM A53, TYPE E OR S, GRADE B
TUBE:	ASTM A500 GRADE B (Fy = 46 KSI)

DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2016 AISC SPECIFICATIONS.

FIELD CONNECTIONS SHALL BE BOLTED, BEARING TYPE UNLESS NOTED OTHERWISE USING 3/4" HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. ONE SIDED CONNECTIONS ARE NOT PERMITTED UNLESS DETAILED ON DRAWINGS

GENERAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, OPENING DIMENSIONS AND WEIGHTS PRIOR TO STRUCTURAL STEEL FABRICATION. NOTIFY ENGINEER IF DIFFERENT FROM THAT SHOWN ON DRAWINGS.

ALL CONNECTIONS TO TUBES AND PIPES SHALL USE THRU PLATES UNLESS NOTED OTHERWISE.

WHEN FORCES ARE NOT SHOWN, THE CONNECTION SHALL DEVELOP 1/2 OF THE ALLOWABLE UNIFORM LOAD AS SPECIFIED IN THE BEAM TABLES OF AISC (ASD). A MINIMUM OF 2 BOLTS SHALL BE USED.

ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH THE AWS D1.1 SPECIFICATIONS.

PROVIDE ANGLE 4x4x5/16 FRAMING AT ALL ROOF OPENINGS TO SUPPORT EDGE OF ROOF DECK.

FIELD VERIFY ALL CONDITIONS AT AND CONNECTIONS TO THE EXISTING CONSTRUCTION BEFORE FABRICATION.

ALL STEEL EXPOSED TO THE EXTERIOR SHALL BE HOT-DIPPED GALVANZIED IN ACCORDING TO ASTM A123.

PRIME ALL STEEL NOT IN CONTACT WITH CONCRETE. DO NOT PRIME STEEL IN AREAS TO RECEIVE SLIP CRITICAL BOLTS (FRICTION BOLTS). DO NOT PRIME STEEL THAT IS TO RECEIVE FIREPROOFING.

ALL STRUCTURAL STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE ADJUSTABLE MASONRY ANCHORS AT 2'-8" ON CENTER.

COLD FORMED STEEL:

ALL SIZING BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (ICBO ER-4943P) PRODUCT TECHNICAL INFORMATION.

ALL STUDS TO HAVE A MINIMUM 2" WIDE FLANGE U.N.O.

ALL GALVANIZED STUDS AND JOISTS 12, 14 AND 16 GAUGE SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A653 SS, GRADE 50, CLASS 1 OR 3 WITH A MINIMUM YIELD OF 50,000 PSI.

ALL GALVANIZED 18 AND 20 GAUGE STUDS AND JOISTS; ALL GALVANIZED TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF ASTM A653 SS, GRADE 33 WITH A MINIMUM YIELD OF 33,000 PSI.

ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653.

THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY THE STEEL STUD MANUFACTURER ASSOCIATION AND AISI DESIGN MANUAL SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS. SPECIFICALLY, THE FOLLOWING MINIMUM PROPERTIES, CALCULATED IN ACCORDANCE WITH THE LATEST AISI SPECIFICATION SHALL BE PROVIDED: IX (IN.4), SX (IN.3), AREA (IN.2), RX (IN.), FY (KSI), RESISTING MOMENT (IN.-LB.).

ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING PRIOR TO DELIVERY, BY THE ARCHITECT AND/OR ENGINEER OF RECORD.

INSTALLATION OF STUDS SHALL BE AS PER ASTM C1007-11a "SPECIFICATION FOR INSTALLATION OF LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS AND RELATED ACCESSORIES", ASTM C955-11c "STANDARD SPECIFICATION FOR LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS, RUNNERS (TRACK), AND BRACING OR BRIDGING FOR SCREW APPLICATION OF GYPSUM PANEL PRODUCTS AND METAL PLASTER BASES", AND ASTM C754-15 "SPECIFICATION FOR INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW ATTACHED GYPSUM PANEL PRODUCTS".

ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.

ALL TRACK BUTT JOINTS ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT-WELDED OR SPLICED TOGETHER.

ALL STUD BRIDGING SHALL BE ATTACHED IN A MANNER TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED ACCORDING TO SUPPLIERS RECOMMENDATIONS.

TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.

JOIST SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP TRACK.

JOIST BRIDGING SHALL BE COMPRISED OF SOLID BRIDGING AND FLAT STRAPPING. USE SOLID BRIDGING IN FIRST AND LAST TWO ROWS OF JOISTS. ATTACH FLAT STRAPPING TO TOP AND BOTTOM FLANGES OF JOISTS FROM THIRD ROW EXTENDING FOR A MAXIMUM OF 10'-0". REPEAT SOLID BRIDGING FOR ONE JOIST SPACE AND THEN ANOTHER 10'-0" OF FLAT STRAPPING. REPEAT. OMIT TOP FLANGE BRIDGING WHERE PLYWOOD DECK IS PROPERLY ATTACHED TO THE TOP FLANGE OF JOISTS.

JOIST SHALL BE BRIDGED AT MAXIMUM 4'-0" SPACING.

END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.

JOISTS MUST HAVE A MINIMUM OF 10" UNPUNCHED STEEL AT BEARING POINTS. STUDS MUST HAVE A MINIMUM OF 10" OF UNPUNCHED STEEL AT EACH END.

STUD ENDS MUST BE SQUARELY SEATED AGAINST THE TRACK WEB. BOTH STUD FLANGES MUST BE ATTACHED TO TRACK MEMBERS AT TOP AND BOTTOM.

STUD BRIDGING SHALL BE PROVIDED BY 1-1/2" COLD ROLLED U-CHANNEL. THE U-CHANNEL MUST BE ATTACHED TO EACH STUD BY WELDING OR ATTACHING WITH CLIP ANGLES AND SCREWS. HORIZONTAL STRAPPING AND SOLID BRIDGING WITH TRACK MEMBERS CAN ALSO BE USED FOR BRIDGING. BRIDGING SHALL BE SPACED AT 4'0" O.C. MAXIMUM.

THE FOLLOWING MINIMUM COLD FORMED STEEL ATTACHMENTS SHALL BE PROVIDED U.N.O.:
TRACK TO STRUCTURAL STEEL____(1) .145"Ø POWDER DRIVEN FASTENER AT 16" O.C.
TRACK TO METAL DECK__________(1) #10 TEK SCREW AT 16" O.C.
TRACK TO CONCRETE__________(1) .145"Ø POWDER DRIVEN FASTENER AT 16" O.C.
STUD TO STRUCTURAL STEEL _____(1) L2x2x14 GAUGE CLIP ANGLE CONNECTION WITH (2) #10 TEK SCREWS INTO METAL STUD AND (2) .145"Ø POWDER DRIVEN FASTENERS INTO STRUCTURAL STEEL.
TRACK TO STUD_______________(2) #10 TEK SCREWS
STUD TO STUD________________(2) #10 TEK SCREWS

PLYWOOD SHEATHING/DECKING:

WOOD APA-RATED STRUCTURAL SHEATHING SHALL CONFORM TO PRODUCT STANDARD PS-1 AND PS-2 OF THE U.S. DEPT. OF COMMERCE AND THE AMERICAN PLYWOOD ASSOCIATION (APA).

WALL SHEATHING SHALL BE 1/2" (32/16) EXPOSURE 1 AND ROOF SHEATHING SHALL BE 3/4" (48/24) EXPOSURE 1. ATTACH WITH #8 SCREWS AT 6" O.C. AT ALL SUPPORTED PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.

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	DATE	REMARKS
	05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: JRM
JOB NO.: 2021088.17

TACO BELL

5201 Hamlin Groves Trl
Winter Garden, FL 34787

ENDEAVOR 2.0
STRUCTURAL GENERAL NOTES

S0.1

PLOT DATE: 5/3/2022 8:28:48 AM

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SPECIAL INSPECTION AND TESTING:

THIS PROJECT REQUIRES SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE. THESE NOTES AND THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THE PROJECT OWNER ARE INTENDED TO INFORM THE CONTRACTOR OF THE QUALITY ASSURANCE PROGRAM AND THE EXTENT OF THE CONTRACTORS RESPONSIBILITIES.

THE SPECIAL INSPECTIONS & TESTING PROGRAM:

THE SPECIAL INSPECTION AND TESTING PROGRAM IS A QUALITY ASSURANCE PROGRAM INTENDED TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN IBC SECTION 110. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO COMPLY WITH THE OFFICIAL CONTRACT DOCUMENTS. FURTHER, IT IS NOT INTENDED THAT THE CONTRACTOR'S CONTRACTUAL AND STATUTORY OBLIGATIONS ARE ANYWAY RELIEVED OR FOREGONE BY THE PRESENCE OF THE SPECIAL INSPECTOR. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR DOES NOT REPLACE THE DUTIES OF THE BUILDING OFFICIAL NOR THE QUALITY CONTROL RESPONSIBILITIES AND PERSONNEL OF THE CONTRACTOR. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

THE PROJECT OWNER IS RESPONSIBLE FOR EMPLOYING SPECIAL INSPECTION SERVICES. THE SPECIAL INSPECTOR/AGENCY SHALL NOT BE IN THE EMPLOY OF THE CONTRACTOR, SUBCONTRACTOR OR MATERIAL SUPPLIER, IBC SEC. 1704.2. IN THE CASE OF AN OWNER/CONTRACTOR, THE SPECIAL INSPECTOR/AGENCY SHALL BE EMPLOYED AS SPECIFIED BY THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR IS OBLIGATED TO BOTH THE OWNER AND THE BUILDING OFFICIAL FOR OBSERVING THAT THE WORK IS EXECUTED IN SUBSTANTIVE ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS. THE OFFICIAL CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED PLANS AND SPECIFICATIONS, ADDENDA, CHANGE ORDERS, ISSUED SKETCHES AND REVISION DRAWINGS, AND ALL DIRECTIVES ISSUED BY ARCHITECT/ENGINEER.

THE INSPECTION AND TESTING AGENTS SHALL DISCLOSE ANY PAST OR PRESENT BUSINESS RELATIONSHIP OR POTENTIAL CONFLICT OF INTEREST WITH THE CONTRACTOR OR ANY OF THE SUBCONTRACTORS WHOSE WORK IS TO BE INSPECTED OR TESTED. THE SPECIAL INSPECTORS MAY HAVE NO FINANCIAL INTEREST IN PROJECTS FOR WHICH THEY PROVIDE SPECIAL INSPECTION SERVICES.

SPECIAL INSPECTION REPORT REQUIREMENTS:

SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND TESTS. THE SPECIAL INSPECTOR SHALL FURNISH THE INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT THE WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND TESTS AND CORRECTION OF ANY OF THE DISCREPANCIES NOTED IN THE INSPECTIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.

CONTRACTOR RESPONSIBILITIES:

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR IN ADVANCE OF CONSTRUCTION SCHEDULES AND PLANNED OPERATIONS IN ORDER TO ASSURE TIMELY AND APPROPRIATE INSPECTION FOR THE ITEMS LISTED IN THE SCHEDULE OF SPECIAL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE ADEQUATE NOTICE TO THE SPECIAL INSPECTOR FOR ALL INSPECTIONS.

THE CONTRACTOR SHALL COOPERATE WITH AND ASSIST THE SPECIAL INSPECTOR IN PERFORMING HIS INSPECTION DUTIES. THE SPECIAL INSPECTOR SHALL HAVE FREE ACCESS TO THE PROJECT AT ALL TIMES. THE CONTRACTOR SHALL REVIEW THE SPECIAL INSPECTION PLAN AND COORDINATE THE SCHEDULE OF WORK TO ACCOMMODATE THE REQUIRED INSPECTIONS.

PROVIDE ACCESS TO APPROVED PLANS: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR ACCESS TO APPROVED PLANS. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF THE CONTRACT DOCUMENTS AT THE JOB SITE.

CORRECT DISCREPANCIES AND DEVIATIONS: THE CONTRACTOR SHALL, UPON BEING INFORMED BY THE SPECIAL INSPECTOR, IMMEDIATELY CAUSE TO ELIMINATE SUCH DISCREPANCIES AND DEVIATIONS.

WORK COMPLETED WITHOUT INSPECTION: WORK REQUIRING INSPECTION WHICH IS COMPLETED WITHOUT INSPECTION WILL BE REJECTED SOLELY ON THAT BASIS.

RETAIN SPECIAL INSPECTION RECORDS: THE CONTRACTOR IS ALSO RESPONSIBLE FOR RETAINING AT THE JOB SITE ALL SPECIAL INSPECTION RECORDS COMPLETED BY THE SPECIAL INSPECTOR.

COORDINATE AND SUBMIT. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING TO THE BUILDING OFFICIAL AND THE OWNER A STATEMENT OF CONTRACTOR RESPONSIBILITY, NYBC SECTION 1704.4, FOR THEMSELVES AND FOR SUBMITTING A STATEMENT OF CONTRACTOR RESPONSIBILITY FOR EACH STRUCTURAL COMPONENT SUBCONTRACTOR. THE STATEMENTS OF RESPONSIBILITY SHALL BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT.

A. THE STATEMENT OF CONTRACTOR RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

   1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.

   2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

   3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.

   4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSONS EXERCISING SUCH CONTROL AND THEIR POSITIONS IN THE ORGANIZATION.

B. STRUCTURAL COMPONENT SUBCONTRACTORS INCLUDE BUT ARE NOT LIMITED TO STRUCTURAL STEEL FABRICATORS AND ERECTORS, COMPONENT FABRICATORS, SUCH AS STEEL JOISTS, METAL OR WOOD TRUSSES, CONCRETE AND MASONRY CONTRACTORS.

C. AT THE COMPLETION OF STRUCTURAL COMPONENT FABRICATION, THE FABRICATORS SHALL SUBMIT A CERTIFICATE OF COMPLIANCE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS OF:

RETESTING AND REINSPECTION OF MATERIALS, WORK AND/OR PRODUCTS THAT DO NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS/SUBMITTAL DATA.

REVIEW OF PROPOSED REPAIR AND/OR REPLACEMENT PROCEDURES BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE INSPECTORS AND TESTING AGENCIES.

REPAIR OR REPLACEMENT OF WORK THAT DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

THE CONTRACTOR IS RESPONSIBLE FOR THE TRAVEL COSTS OF THE SPECIAL INSPECTOR OR AGENTS WHEN SHOP INSPECTION IS REQUIRED OF A NON APPROVED STRUCTURAL COMPONENT FABRICATOR.

INSPECTION OF FABRICATION:

WHERE FABRICATION OF STRUCTURAL, LOAD BEARING, OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES ARE PERFORMED ON THE PREMISES OF THE FABRICATOR, THE SHOP FABRICATION REQUIRES SPECIAL INSPECTION DURING THE FABRICATION OF ITEMS FOR THIS PROJECT.

EXEMPTION:

FABRICATORS APPROVED BY THE BUILDING OFFICIAL ARE EXEMPT FROM THE ON PREMISE INSPECTION. THE APPROVAL BY THE BUILDING OFFICIAL OF ANY FABRICATOR SHOULD BE PROPERLY DOCUMENTED PRIOR TO THE COMMENCEMENT OF FABRICATION. EXEMPTION WILL BE PROVIDED TO FABRICATORS WHO PROVIDE PROOF OF CERTIFICATION BY A NATIONALLY RECOGNIZED GOVERNING ASSOCIATION WHICH PERFORMS PERIODIC INSPECTIONS AND MAINTAINS QUALITY ASSURANCE CRITERIA. EXAMPLES ARE: AISC CERTIFICATION FOR A STEEL FABRICATOR, SJI CERTIFICATION FOR A STEEL JOIST MANUFACTURER, WTC AND TPI CERTIFICATION FOR A PRE-ENGINEERED WOOD TRUSS MANUFACTURER.

AT THE COMPLETION OF FABRICATION, THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

CONCRETE TESTING NOTES:

CONCRETE TESTING AND INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND THE SCHEDULE OF SPECIAL INSPECTIONS. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 C.Y. OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING NON-COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ARCHITECT & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE.

STEEL INSPECTION & TESTING NOTES:

STRUCTURAL STEEL TESTING AND INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE REFERENCED STANDARDS AND THE SCHEDULE OF SPECIAL INSPECTIONS.

FIELD BOLTED CONNECTIONS WILL BE TESTED AND INSPECTED ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."

FIELD WELDS SHALL BE INSPECTED AND TESTED ACCORDING TO AWS D1.1. IN ADDITION TO VISUAL INSPECTION, WELDED MOMENT CONNECTIONS WILL BE TESTED BY ULTRASONIC, ASTM E164, OR OTHER AWS APPROVED METHOD.

MASONRY INSPECTION & TESTING NOTES:

CONCRETE MASONRY TESTING AND INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 530 AND THE SCHEDULE OF SPECIAL INSPECTIONS. INSPECTION SHALL INCLUDE GENERAL INSPECTION OF WORK IN PROGRESS TO CONFIRM THAT MATERIALS, CONSTRUCTION AND WORKMANSHIP ARE IN COMPLIANCE WITH PLANS, SPECIFICATIONS AND GOOD CONSTRUCTION PRACTICES. ADDITIONALLY, MORTAR SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C780 ANNEX A6. EACH TEST SHALL CONSIST OF THREE SPECIMENS.

FREQUENCY OF TESTING: AT THE BEGINNING OF MASONRY CONSTRUCTION AND FOR EVERY 5000 SQUARE FEET OF MASONRY INSTALLED THEREAFTER.

COLD WEATHER = LESS THAN 40 DEGREES FAHRENHEIT
HOT WEATHER = GREATER THAN 90 DEGREES FAHRENHEIT

INSPECTOR TO BE CERTIFIED BY THE INTERNATIONAL CODE COUNCIL.

OTHER REQUIRED INSPECTIONS:

THE REQUIREMENTS OF SPECIAL INSPECTIONS AND TESTING IN ACCORDANCE OF THE 2020 FLORIDA BUILDING CODE ARE MINIMUM REQUIREMENTS AND DO NOT LIMIT THE REQUIREMENTS FOR THE CONTRACTOR TO PROVIDE OTHER QUALITY CONTROL INSPECTIONS AND TESTING REQUIRED BY THE OWNER, CONTRACT DOCUMENTS, OR OTHER GOVERNING AUTHORITIES HAVING JURISDICTION.

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	DATE	REMARKS
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	JRM
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trl
Winter Garden, FL 34787

ENDEAVOR 2.0
STRUCTURAL SPECIAL INSPECTIONS

S0.2

PLOT DATE: 5/3/2022 8:28:49 AM

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2018 INTERNATIONAL BUILDING CODE

SCHEDULE OF SPECIAL INSPECTIONS

1705.2.2 COLD FORMED STEEL DECK (SDI QAQC - 2017)

TABLE 1.1 INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT

	TASK	Y/N	EXTENTS
A	VERIFY COMPLIANCE OF MATERIAL, (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	Y	EACH SUBMITTALS
B	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	Y	EACH SUBMITTALS

TABLE 1.2 INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT

	TASK	Y/N	EXTENTS
A	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	Y	PERIODIC
B	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	Y	PERIODIC
C	DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	Y	PERIODIC

TABLE 1.3 INSPECTION OR EXECUTION TASKS PRIOR TO WELDING

	TASK	Y/N	EXTENTS
A	WELDING PROCEDURE SPECIFICATIONS, (WPS) AVAILABLE	Y	PERIODIC
B	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Y	PERIODIC
C	MATERIAL IDENTIFICATION, (TYP/GRADE)	Y	PERIODIC
D	CHECK WELDING EQUIPMENT	Y	PERIODIC

TABLE 1.4 INSPECTION OR EXECUTION TASKS DURING WELDING

	TASK	Y/N	EXTENTS
A	USE OF QUALIFIED WELDERS	Y	PERIODIC
B	CONTROL AND HANDLING OF WELDING CONSUMABLES	Y	PERIODIC
C	ENVIRONMENTAL CONDITIONS, (WIND SPEED, MOISTURE, TEMPERATURE)	Y	PERIODIC
D	WPS FOLLOWED	Y	PERIODIC

TABLE 1.5 INSPECTION OR EXECUTION TASKS AFTER WELDING

	TASK	Y/N	EXTENTS
A	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.	Y	PERIODIC
B	WELDS MEET VISUAL ACCEPTANCE CRITERIA	Y	PERIODIC
C	VERIFY REPAIR ACTIVITIES	Y	PERIODIC
D	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	Y	PERIODIC

TABLE 1.6 INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING

	TASK	Y/N	EXTENTS
A	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	Y	PERIODIC
B	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	Y	PERIODIC
C	PROPER STORAGE FOR MECHANICAL FASTENERS	Y	PERIODIC

TABLE 1.7 INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING

	TASK	Y/N	EXTENTS
A	FASTENERS ARE POSITIONED AS REQUIRED	Y	PERIODIC
B	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	Y	PERIODIC

TABLE 1.8 INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING

	TASK	Y/N	EXTENTS
A	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	Y	PERIODIC
B	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	Y	PERIODIC
C	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	Y	PERIODIC
D	VERIFY REPAIR ACTIVITIES	Y	PERIODIC
E	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	Y	PERIODIC

1704.2.5 INSPECTION OF FABRICATORS

MATERIAL/ACTIVITY	SERVICE	APPLICABLE TO PROJECT	
		Y/N	EXTENT
VERIFY FABRICATION/QUALITY CONTROL PROCEDURES	IN-PLANT REVIEW (3) DURING FABRICATION	Y	SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE FABRICATOR IS REGISTERED AND APPROVED IN ACCORDANCE WITH SECTION 1704.2.5.1.

1705.2.3 OPEN-WEB STEEL JOIST AND JOIST GIRDERS

TYPE	APPLICABLE TO PROJECT		REFERENCED STANDARD
	Y/N	EXTENT	
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
a. END CONNECTIONS - WELDED OR BOLTED.	Y	PERIODIC	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
b. BRIDGING - HORIZONTAL OR DIAGONAL.	-		
1) STANDARD BRIDGING.	Y	PERIODIC	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
2) BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	Y	PERIODIC	

NOTES:

1. THE INSPECTION AND TESTING AGENT OR AGENTS, SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL.

2. SUBMIT A LIST OF THE SPECIAL INSPECTORS ON A SEPARATE DOCUMENT TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL.

3. SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704.2.5 ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5.1.

4. OBSERVE ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM THESE TASKS FOR EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT.

5. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. REFER TO AISC 360, N7.

DEFINITIONS:

1. SPECIAL INSPECTION: INSPECTION OF CONSTRUCTION REQUIRING THE EXPERTISE OF AN APPROVED SPECIAL INSPECTOR IN ORDER TO ENSURE COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

2. SPECIAL INSPECTOR: QUALIFIED FIRM OR INDIVIDUAL RESPONSIBLE FOR PERFORMING SPECIFIC TESTS OR INSPECTIONS AS PART OF THE SPECIAL INSPECTION PROGRAM.

3. PERIODIC SPECIAL INSPECTION: THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. MAY BE ALLOWED WHEN COMPLIANCE OF THE WORK OR PRODUCT CAN BE DETERMINED AFTER BEING INCORPORATED INTO THE STRUCTURE.

4. CONTINUOUS SPECIAL INSPECTION: THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

1705.2 STEEL CONSTRUCTION (AISC 360: CHAPTER N)

MATERIAL/ACTIVITY	SERVICE	APPLICABLE TO PROJECT	
		Y/N	EXTENT
1. FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, CHAPTER N, SECTION N3, PARAGRAPH 2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	SUBMITTAL REVIEW	Y	EACH SUBMITTAL
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL HIGH-STRENGTH BOLTS, NUTS, & WASHERS, & WELD FILLER MATERIALS.	SHOP (3) AND FIELD INSPECTION	Y	PERIODIC
3. EMBEDMENTS: VERIFY DIAMETER, GRADE, TYPE, LENGTH, & EMBEDMENT. (SEE 1705.3 FOR ANCHORS)	FIELD INSPECTION	Y	PERIODIC
4. VERIFY MEMBERS LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	FIELD INSPECTION	Y	PERIODIC
5. STRUCTURAL STEEL WELDING	———	——	———
a. INSPECTION TASKS PRIOR TO WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-1)	SHOP (3) AND FIELD INSPECTION	Y	OBSERVE OR PERFORM AS NOTED (4)
b. INSPECTION TASKS DURING WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-2)	SHOP (3) AND FIELD INSPECTION	Y	OBSERVE (4)
c. INSPECTION TASKS AFTER WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-3)	SHOP (3) AND FIELD INSPECTION	Y	OBSERVE OR PERFORM AS NOTED (4)
d. NONDESTRUCTIVE (NDT) TESTING OF WELDED JOINTS (AISC 360: N5.5):	———	——	———
1) USE OF QUALIFIED NONDESTRUCTIVE TESTING PERSONNEL.	PERFORM	Y	———
2) COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	SHOP (3) OR FIELD ULTRASONIC TESTING - 20% OF WELDS MINIMUM	Y	PERFORM
3) WELDED JOINTS SUBJECT TO FATIGUE.	DT & UT SHALL BE PERFORMED ON 100% OF WELDED JOINTS IDENTIFIED ON CONTRACT DRAWINGS AS BEING SUBJECT TO FATIGUE.	Y	PERFORM
4) WELDED TAB REMOVAL SITES.	AT THE END OF WELDS WHERE WELD TABS HAVE BEEN REMOVED, MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON THE SAME BEAM TO COLUMN JOINTS RECEIVING UT.	Y	PERFORM
5) FABRICATORS NDT REPORTS WHEN FABRICATORS PERFORMS NDT	VERIFY REPORTS	Y	EACH SUBMITTAL (5)
6. STRUCTURAL STEEL BOLTING:	SHOP (3) AND FIELD INSPECTION	——	———
a. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)	———	——	OBSERVE OR PERFORM AS NOTED (4)
b. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)	———	——	OBSERVE (4)
1) PRE-TENSIONED AND SLIP-CRITICAL JOINTS	———	——	
a) NOT USED			
b) DIRECT TENSION INDICATOR	———	Y	PERIODIC
c) TWIST-OFF TYPE TENSION CONTROL BOLT	———	Y	PERIODIC
2) SNUG-TIGHT JOINTS	———	Y	PERIODIC
	SHOP (3) AND FIELD INSPECTION AND TESTING	Y	PERFORM (4)

1705.3 CONCRETE CONSTRUCTION

MATERIAL/ ACTIVITY	APPLICABLE TO PROJECT		REFERENCE D STANDARD	NYBC REFERENCE
	Y/N	EXTENT		
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	Y	PERIODIC	ACI 318 CH.20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAX. 5/16" c. INSPECT ALL OTHER WELDS.	Y Y Y	PERIODIC PERIODIC CONTINUOUS	AWS D1.4 ACI 318: 26.6.4	-
3. INSPECT ANCHORS CAST IN CONCRETE.	Y	PERIODIC	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	Y Y	CONTINUOUS PERIODIC	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	Y	PERIODIC	ACI 318: CH. 19. 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	Y	CONTINUOUS	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Y	PERIODIC	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES b. GROUTING OF BONDED PRESTRESSING TENDONS.	N N	CONTINUOUS CONTINUOUS	ACI 318: 26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	N	PERIODIC	ACI 318: CH 26.9	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	N	PERIODIC	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Y	PERIODIC	ACI 318: 26.11.1.2[b]	-
13. CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	Y	PERIODIC	-	-

FOR SI: INCH = 25.4 mm.
{a.} WHERE APPLICABLE, SEE ALSO SECTION 1705.12. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
{b.} SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

1705.6 SOILS

MATERIAL/ACTIVITY	SERVICE	APPLICABLE TO PROJECT	
		Y/N	EXTENT
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	Y	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	Y	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	FIELD INSPECTION	Y	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, & LIFT THICKNESSESS DURING PLACEMENT & COMPACTION OF COMPACTED FILL	FIELD INSPECTION	Y	CONTINUOUS
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	FIELD INSPECTION	Y	PERIODIC

1705.4 MASONRY CONSTRUCTION LEVEL 2 REQUIRED (TMS 402-16/TMS 602-16 CHAPTER 3)

MINIMUM VERIFICATION	**REQUIRED FOR QUALITY ASSURANCE**			**REFERENCE FOR CRITERIA**	
	LEVEL 1	**LEVEL 2**	**LEVEL 3**	**TMS 402**	**TMS 602**
1. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	NR	R	NR		ART. 1.5
2. PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND f'aac, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.	NR	R	NR		ART. 1.4 B
3. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	NR		ART. 1.5 & 1.6.3
4. DURING CONSTRUCTION, VERIFICATION OF f'm AND f'aac, FOR EVERY 5,000 SQ. FT.	NR	NR	NR		ART. 1.4 B
5. DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	NR	NR	NR		ART. 1.4 B
MINIMUM SPECIAL INSPECTIONS	**FREQUENCY**			**REFERENCE FOR CRITERIA**	
	LEVEL 1	**LEVEL 2**	**LEVEL 3**	**TMS 402**	**TMS 602**
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR.	NR	P	NR		ART. 2.1, 2.6 A, & 2.6C
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	NR	P	NR		ART. 2.4 B & 2.4 H
C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.	NR	P	NR		ART. 3.4 & 3.6 A
D. PRESTRESSING TECHNIQUE	NR	P	NR		ART. 3.6 B
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C[b]/P[c]	NR		ART. 2.1 C.1
F. SAMPLE PANEL CONSTRUCTION	NR	P	NR		ART. 1.6 D
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE	NR	P	NR		ART. 3.2 D & 3.2 F
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	NR	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS.	NR	P	NR	SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7	ART. 3.2 E & 3.4
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	NR	P	NR		ART. 2.6 B & 2.4 G.1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS.	NR	P	NR		ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION.	NR	P	NR		ART. 3.3 B
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS.	NR	P	NR		ART. 3.3 F
D. TYPE, SIZE, LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OR MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	NR	P	NR	SEC. 1.2.1 (e), 6.2.1, & 6.3.1	
E. WELDING OF REINFORCEMENT.	NR	C	NR	SEC. 6.1.6.1.2	
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURES BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F	NR	P	NR		ART. 1.8 C & 1.8 D
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	NR	C	NR		ART. 3.6 B
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	NR	C	NR		ART. 3.5 & 3.6 C
I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C[b]/P[c]	NR		ART. 3.3 B.9 & 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS:	NR	P	NR		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

GPD GROUP, INC.
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AKRON, OH 44311
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	DATE	REMARKS
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	JRM
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trl
Winter Garden, FL 34787

ENDEAVOR 2.0

STRUCTURAL SPECIAL INSPECTIONS (CONT.)

S0.3

PLOT DATE: 5/3/2022 8:28:52 AM

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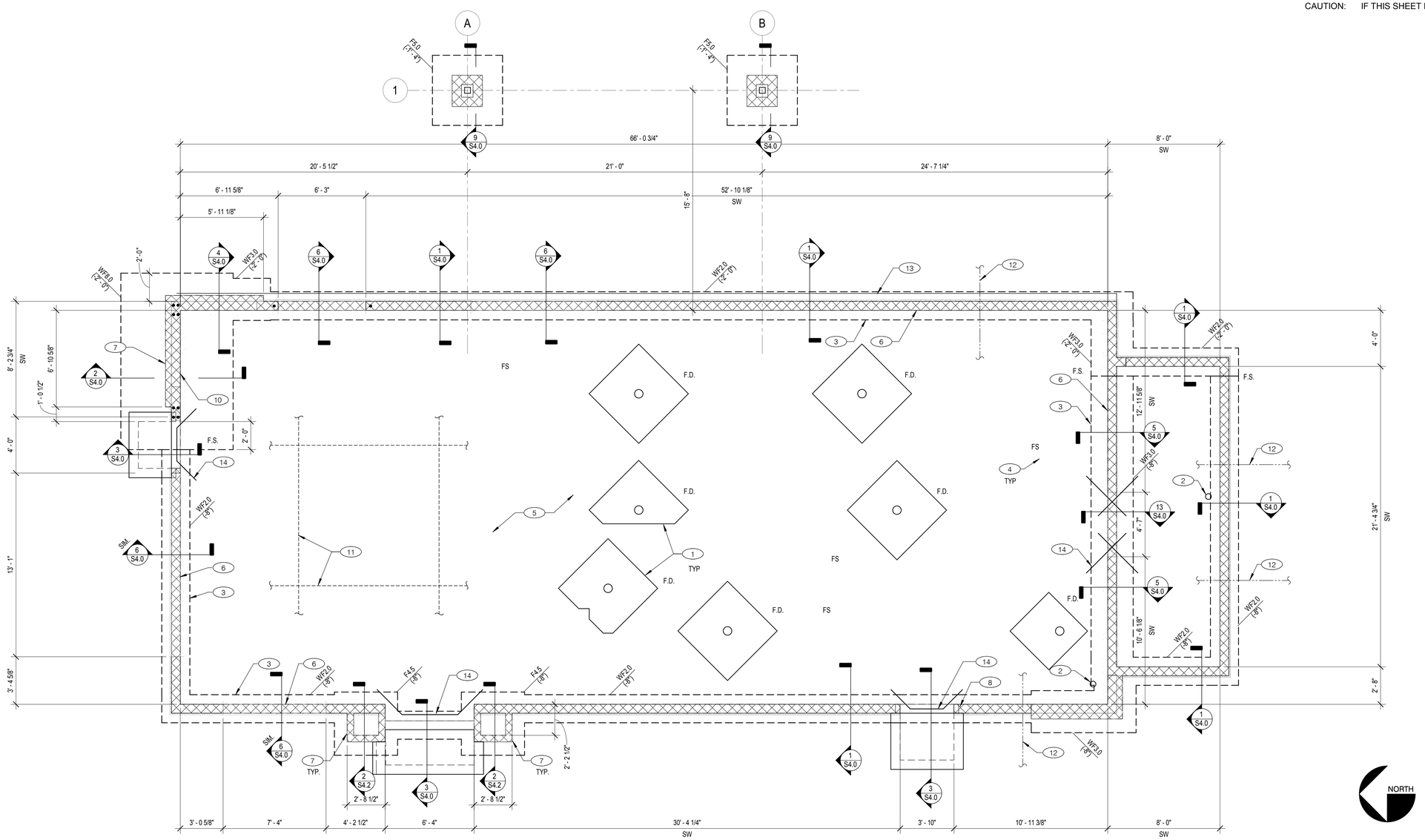

FOUNDATION PLAN 1/4" = 1'-0" — 1

FOUNDATION SCHEDULE

MARK	WIDTH	LENGTH	THICKNESS	REINFORCMENT
F4.5	4' - 6"	4'-6"	2'-0"	(5) #5 BARS TOP & BOTTOM E.W.
F5.0	5' - 0"	5'-0"	2'-0"	(6)-#5 BARS TOP & BOTTOM E.W.
WF2.0	2' - 0"	CONT.	2'-0"	(3) #5 CONT. BARS TOP & BOTTOM
WF3.0	3' - 0"	CONT.	2'-0"	(4) #5 CONT. BARS TOP & BOTTOM
WF8.0	8' - 0"	CONT.	2'-4"	#5@12" O.C. EACH WAY TOP & BOTTOM

"FX.X" DENOTES SPREAD FOOTING

"WFX.X" DENOTES CONTINUOUS WALL FOUNDATION.

FOUNDATION SCHEDULE & NOTES — D

FOUNDATION PLAN NOTES — C

NOTES:

- ELEVATIONS SHOWN ON FOOTINGS INDICATE TOP OF FOOTING. REFERENCE ELEVATION = TOP OF CONCRETE SLAB ELEVATION = ELEV. 0'-0".
- SEE S0.1 FOR GENERAL STRUCTURAL NOTES AND S0.2 & S0.3 FOR SPECIAL INSPECTIONS.
- DIMENSIONS NOTED ARE TO STRUCTURAL ELEMENTS/ FACE OF CONCRETE. REFER TO DWG. A1.0 FOR DIMENSIONS TO FACE OF CMU AND OTHER DIMENSIONS NOT OTHERWISE NOTED.
- DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
- DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
- SEE PLUMBING DWGS. FOR PLUMBING LAYOUT DIMENSIONS, U.N.O.
- SEE ELECTRICAL DWGS. FOR ELECTRICAL LAYOUT DIMENSIONS, U.N.O.
- COORDINATE FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO CASTING SLAB.
- GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- SPREAD FOOTINGS SHALL BE CENTERED BELOW COLUMNS, U.N.O.
- "E.O.S." DENOTES EDGE OF SLAB.
- "F.S." DENOTES FOOTING STEP. REFER TO 10/S4.0.

KEY NOTES — B

1. 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.
2. PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS).
3. INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0.
4. FLOOR SINK REFER TO PLUMBING DRAWINGS FOR LOCATION.
5. 4" CONCRETE SLAB REINFORCED W/ 6x6-W2.9xW2.9 WWF, OVER 10 MIL VAPOR RETARDER MEMBRANE, OVER 6" AGGREGATE BASE OVER SUBGRADE. MODIFY SOIL AND BASE AS REQUIRED BY GEOTECHNICAL ENGINEER.
6. 8" CMU WALL PERIMETER WALL. SEE DETAIL 15/S4.0 FOR TYPICAL WALL REINFORCING .
7. 6" CMU STEM WALL W/ (1) #6 @ 24" O.C. CENTERED IN WALL. GROUT IN SOLID. SEE S4.0 FOR DETAILS.
8. NOT USED.
9. NOT USED.
10. 8" CMU SHEAR WALL. PROVIDE (4) #6 VERTICAL BARS CONTINUOUS FROM FOUNDATION TO TOP OF WALL AT EACH END OF THE SHEAR WALL. (TWO VERTICAL BARS PER CELL, ONE ON EACH FACE). REFER TO DETAIL 15/S4.0 FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. GROUT CMU SHEARWALL SOLID UP TO DECK ATTACHMENT.
11. PROVIDE SAWCUT CONTRACTION OR CONSTRUCTION JOINTS SPACED AT A MINIMUM OF 12'-0" O.C. IN BOTH DIRECTIONS WITH A MAXIMUM LENGTH TO WIDTH RATIO OF 2 U.N.O.
12. UNDERGROUND UTILITY LINE. COORD. WITH CIVIL, MECH'L., ELECTRICAL, & PLUMBING. NOT ALL LOCATIONS SHOWN ON PLAN. SEE DETAIL 14/S4.0 FOR ADDITIONAL INFORMATION.
13. CONCRETE CURB CONT. ALONG SIDE OF EXTERIOR SIDE OF THE BUILDING. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION.
14. (2) #4x3'-0" LONG RE-ENTRANT BARS TO BE PROVIDED AT ALL SLAB RE-ENTRANT CORNERS.

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DATE	REMARKS
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SITE NUMBER: 314877
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PA/PM: JW
DRAWN BY.: JRM
JOB NO.: 2021088.17

TACO BELL

5201 Hamlin Groves Trl
Winter Garden, FL 34787

ENDEAVOR 2.0
FOUNDATION PLAN

S1.0

PLOT DATE: 5/3/2022 8:28:56 AM

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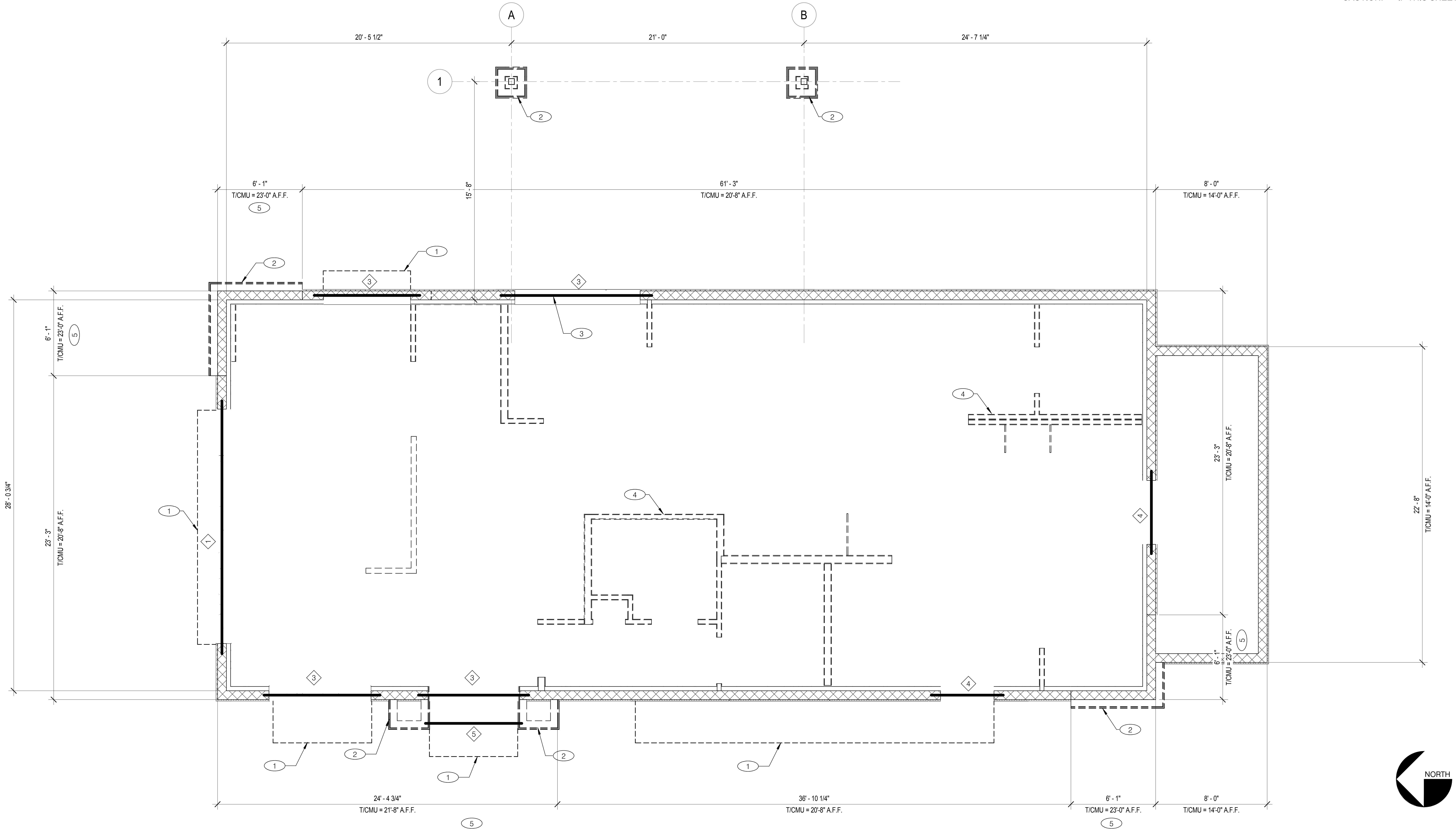

LINTEL/EXTERIOR FRAMING PLAN 1/4" = 1'-0" — 1

LINTEL SCHEDULE — D

1. W16x36 STEEL BEAM. B/STEEL = 9'-0" A.F.F. SEE DETAIL 15/S4.1
2. NOT USED.
3. 8"x28" CMU LINTEL WITH (2)-#6 BARS T&B. B/LINTEL = SEE ARCH.
4. 8"x20" CMU LINTEL WITH (2)-#6 BARS T&B. B/LINTEL = 7'-0" A.F.F.
5. LIGHT GAUGE HEADER, SEE 1/S4.2. B/HEADER = SEE ARCH.

FRAMING PLAN NOTES — C

- T.O. CMU WALL ELEVATION VARIES. SEE PLAN.
- SEE S0.1 FOR GENERAL STRUCTURAL NOTES.
- SEE DETAIL 15/S4.0 FOR TYPICAL CMU WALL REINFORCING.
- VERIFY ALL LINTEL ELEVATIONS WITH ARCH'L. PLANS.
- SEE DETAIL 13/S4.1 FOR TYPICAL STEEL LINTEL DETAL.

KEY NOTES — B

1. CANOPY/AWNING/TRELLIS/VALANCE. SEE 5/S4.1 FOR ATTACHMENT TO CMU WALL.
2. GALVANIZED LIGHT GAUGE FRAMING @ 16" O.C. ON MASONRY STEMWALL / PIER; SEE SHEET S4.0. DIMENSIONS FOR FRAMING ARE TO FACE OF STUD. ATTACH STUDS TO FACE OF CMU WALL WITH 6"X 16GA GALVANIZED STRUTS @ 24" O.C. ATTACH STRUT TO MASONRY WALL WITH 3"x3"x0'-6" LONG 16GA GALVANIZED CLIP. ATTACH CLIP TO STUDS WITH (4) #10 SCREWS. ATTACH CLIP TO FACE OF CMU WITH (2) 1/4" DIA. S.S. TAPCON (1'-1/2" EMBED.) REFER TO ARCH'L. PLANS FOR ADDITIONAL INFORMATION.

   STUD SIZES:
   600S162-43 STUDS ON 6" OR 8" CMU
3. ENSURE ROUGH OPENING DIMENSION TO PROVIDE TOLERANCE FOR DRIVE THRU WINDOW INSTALLATION. COORDINATE WITH WINDOW MANUFACTURER.
4. INTERIOR NON-BEARING STUD WALL FRAMING; REFER TO SHEET A1.0 FOR DIMENSIONS AND STUD SIZES. SEE 6 & 7/S4.1 FOR CONNECTION TO STRUCTURE.
5. (2)-#6@16" O.C. VERTICAL REINFORCING BARS FULL HEIGHT (WITH DOWELS TO MATCH INTO FOUNDATION) AT HIGH PARAPET WALLS. SEE 12/S4.0 FOR BAR SPACING IN CMU CELLS.

GPD GROUP, INC.
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	DATE	REMARKS
	05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: JRM
JOB NO.: 2021088.17

TACO BELL

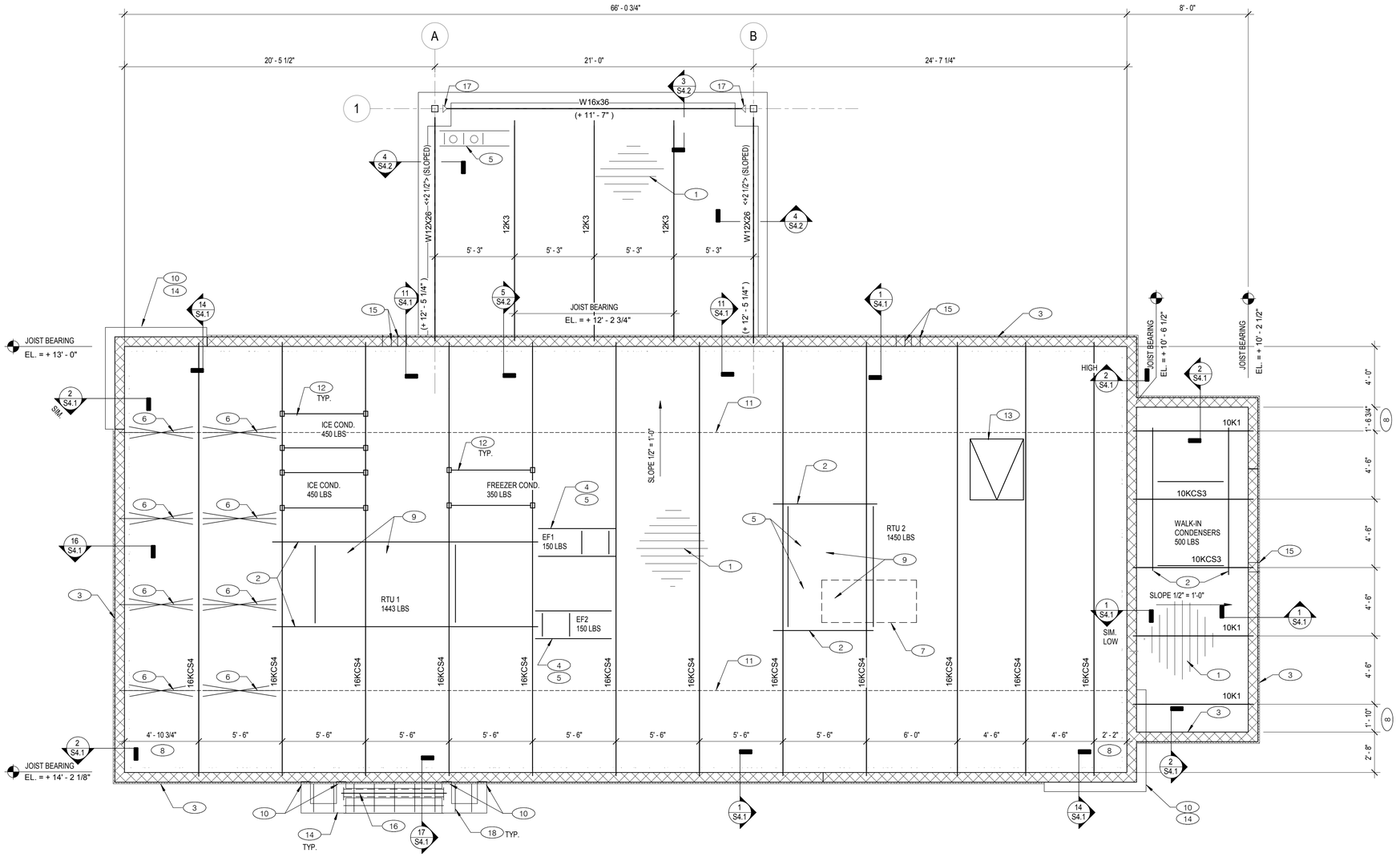
5201 Hamlin Groves Trl
Winter Garden, FL 34787

ENDEAVOR 2.0
WALL FRAMING PLAN

S2.0

PLOT DATE: 5/3/2022 8:28:59 AM

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



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

ROOF FRAMING NOTES C

GENERAL ROOF FRAMING NOTES:

- SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES AND S0.2 & S0.3 FOR SPECIAL INSPECTIONS.
- BASE REFERENCE ELEVATION IS FROM FINISH FLOOR ELEVATION = (0'-0"). ALL ELEVATIONS ARE REFERENCED FROM BASE ELEVATION AND ARE SHOWN AS (+/-x'-x").
- FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.
- COORDINATE ALL ROOFTOP EQUIPMENT SIZES, LOCATIONS AND WEIGHTS WITH THE MECHANICAL CONTRACTOR. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR DEVIATIONS FROM WHAT IS SHOWN.

KEY NOTES B

1. 1.5" x 20 GA. (TYPE B") ROOF DECK. DECKING SHALL BE FASTENED TO STEEL JOISTS USING 5/8" DIAMETER PUDDLE WELDS @ 36/7 PATTERN. PANEL SIDE LAPS SHALL BE FASTENED TOGETHER USING A MIN. OF (3) #10 TEK SCREWS
2. MC6x15.1 LAID FLAT BENEATH THE RTU CURB WITH FLANGES TURNED DOWN BETWEEN DECK FLUTES. EXTEND EA. END 6" PAST BEARING. PROVIDE C6x8.2 FRAMED BETWEEN MC6 BELOW RTU CURBS PER DETAIL 9/S4.1
3. 8" CMU WALL. REFER SHEET S2.0 FOR TOP OF WALL ELEVATIONS.
4. EXHAUST FAN, SEE ARCHITECTURAL AND MECHANICAL DWGS. COORDINATE EDGE SUPPORTS WITH EXHAUST AND SUPPLY DUCT.
5. ROOF OPENING FRAME. SEE 4/S4.1. TYP ALL ROOF OPENINGS.
6. INSTALL ADDITIONAL JOIST BRIDGING PER 3/S4.1
7. LOC. OF EXHAUST HOOD. SEE MECHANICAL DWGS. SEE DETAIL 8/S4.1 FOR TYP. HANGER SUPPORT DETAIL.
8. DIMENSION IS FROM INSIDE FACE OF CMU WALL.
9. HVAC ROOF OPENING FOR DUCT. VERIFY SIZE WITH HVAC MFR. & MECHANICAL DWGS.
10. FASTEN LAST STUD (STUD TO BE GALV.) TO FACE OF CMU WALL w/ (1)-1/4" DIA.x 1-3/4" S.S. TAPCON SCREWS @ 12" O.C. BETWEEN LAST STUD AND CMU WALL.
11. STEEL ANGLE BRIDGING PER SJI REQUIREMENTS. SEE 3/S4.1 FOR TYP. BRIDGING DETAILS.
12. MECHANICAL RACK. SEE 12/S4.1 FOR DETAILS. FIELD VERIFY EQUIPMENT SIZE, JOIST LOCATION, AND JOIST SPACING PRIOR TO ORDERING MATERIAL AND FABRICATION. REFER TO DETAIL 10/S4.1 IF RACK POSTS ARE NOT LOCATED AT ROOF JOIST PANEL POINT.
13. ROOF HATCH. SEE 4/S4.1 FOR TYPICAL ROOF OPENING DETAIL.
14. 6"x 16 GAUGE LT. GAUGE METAL STUD WALL WITH 1/2" PLYWOOD SHEATHING WITH #10 SCREWS AT 4" O.C. PERIMETER SCREWING WITH 12" FIELD SCREWING.
15. PROVIDE PENETRATION THRU WALL AT DECK FOR DRAINAGE. REFER TO ARCH'L. PLANS FOR ADDITIONAL INFORMATION.
16. LIGHT GAUGE HEADER DESIGNED BY THE SUPPLIER ACROSS OPENING.
17. ▷ DENOTES PARTIALLY RESTRAINED MOMENT CONNECTION. REFER TO 6/S4.2 FOR MOMENT CONNECTION DETAIL.
18. LIGHT GAUGE ROOF FRAMING. SEE 17/S4.1.

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DRAWN BY.:	JRM
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trl
Winter Garden, FL 34787

ENDEAVOR 2.0
ROOF FRAMING PLAN

S3.0

PLOT DATE: 5/3/2022 8:29:02 AM

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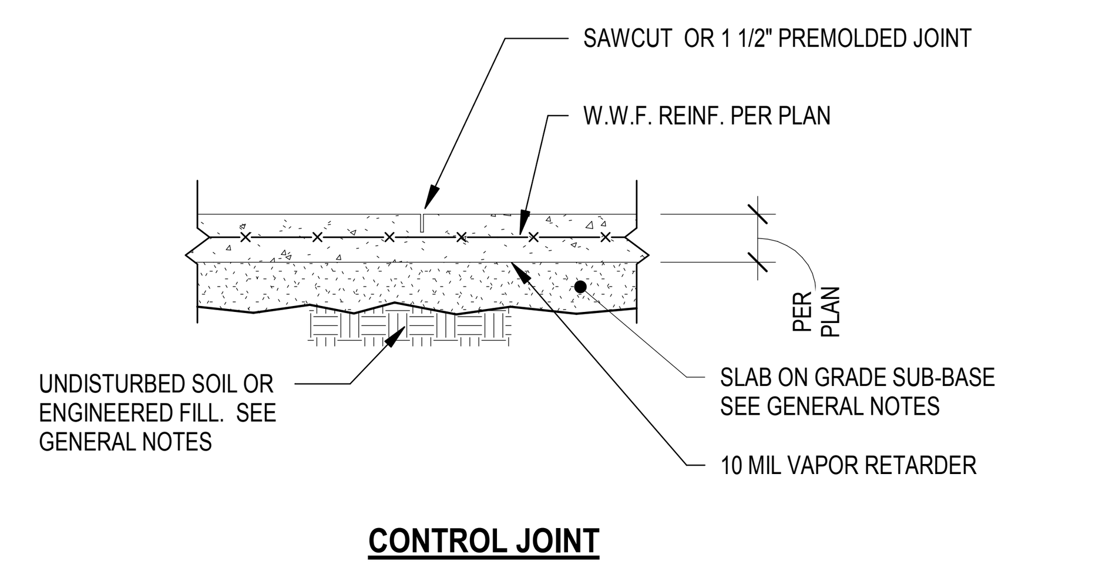
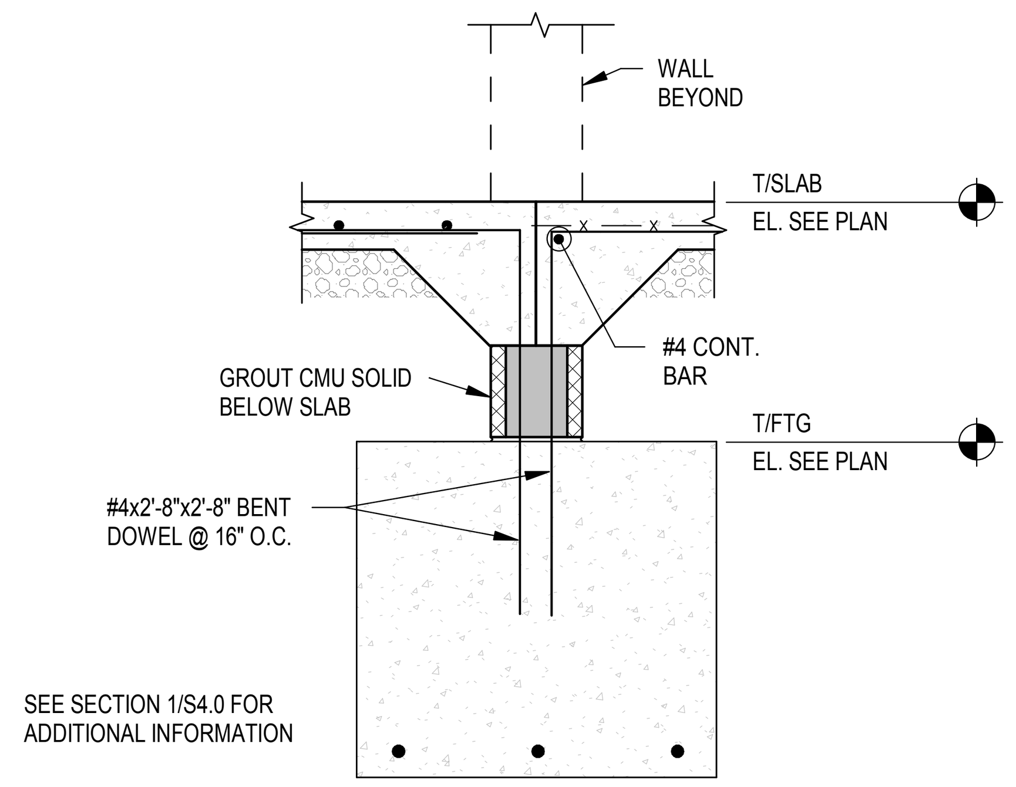
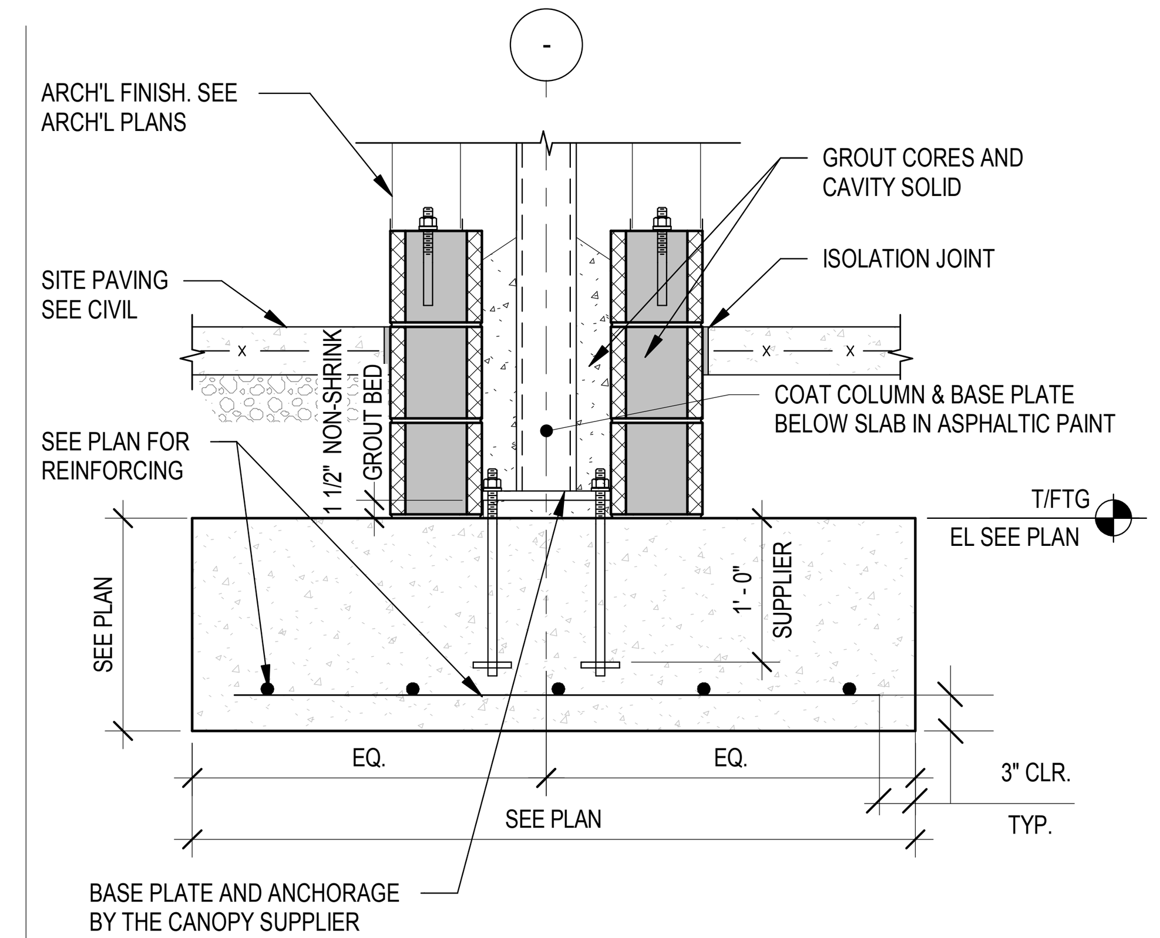


NOTES:
1) FOR CONSTRUCTION OR CONTROL JOINT LOCATIONS, REFERENCE FOUNDATION/SLAB PLAN.
2) USE "SOFTCUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.
3) PROVIDE CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS OF 225 SQ. FT. MAX.

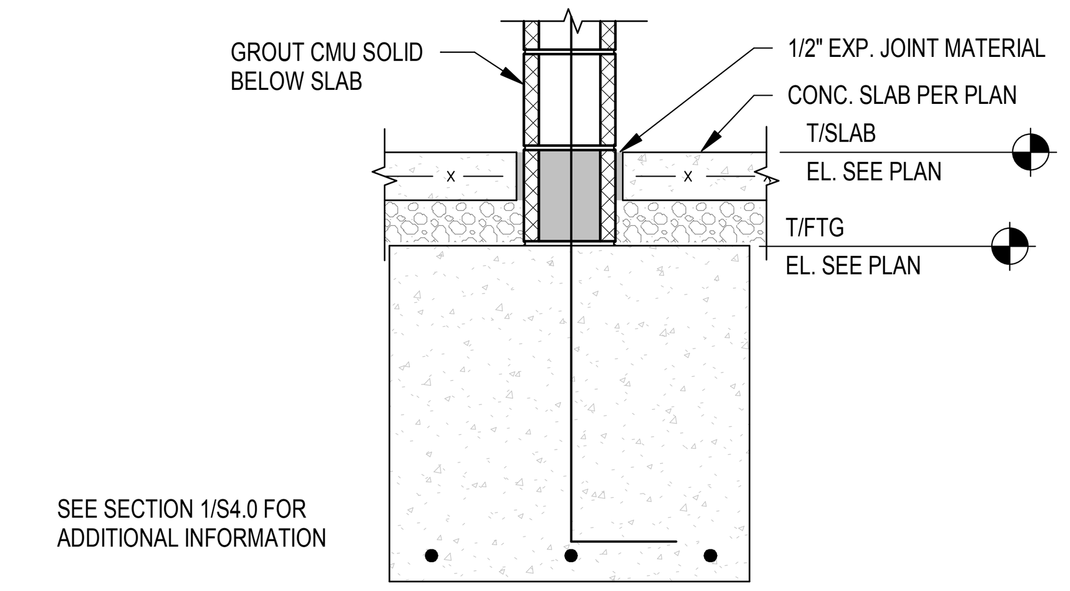
TYP. SLAB ON GRADE JOINT DETAIL 3/4" = 1'-0" **16**



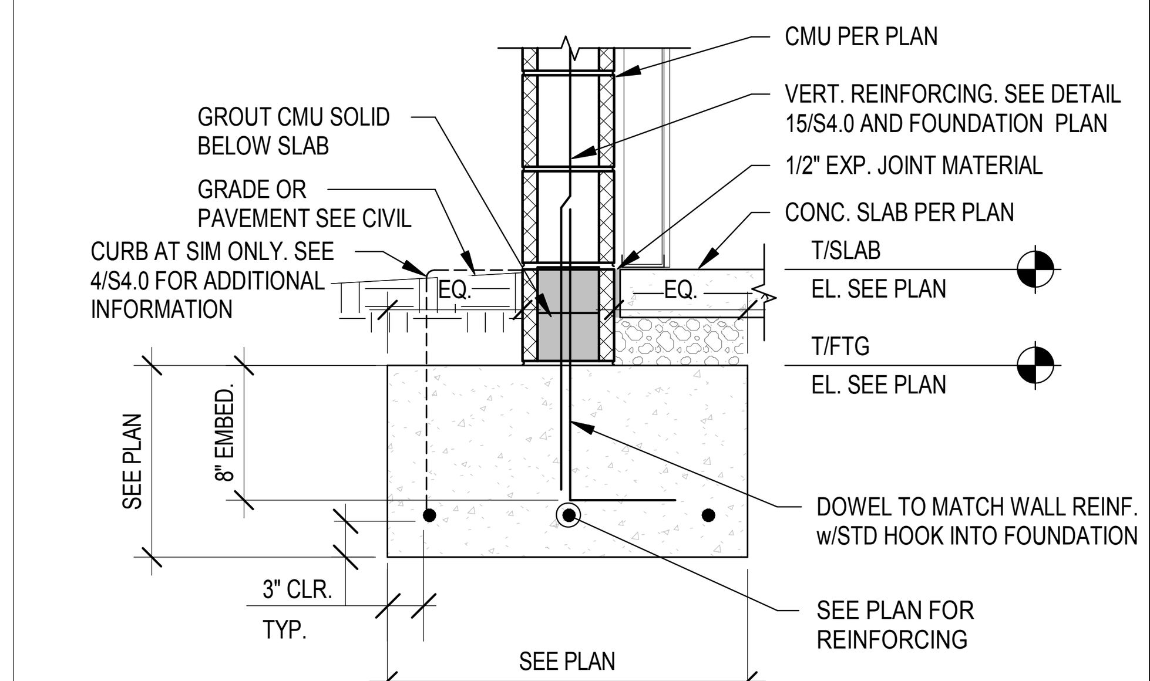
FOOTING AT DOOR OPENING 3/4" = 1'-0" **13**



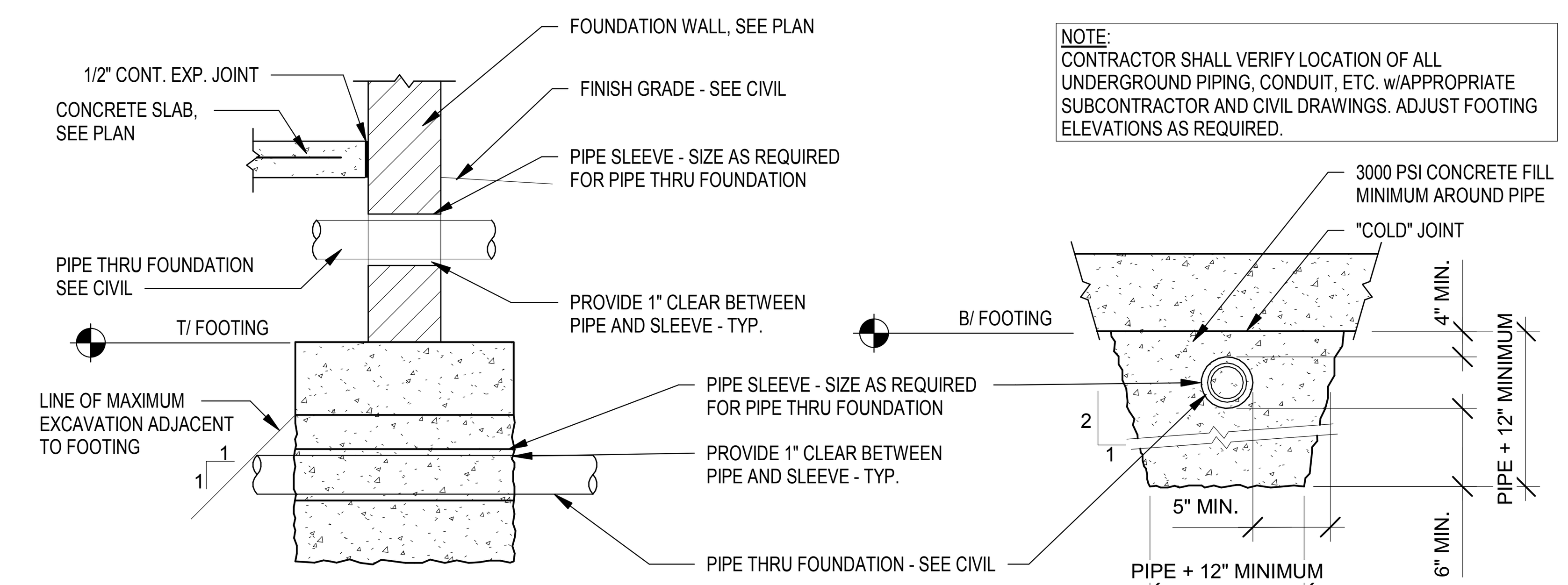
FOOTING @ COLUMN 3/4" = 1'-0" **9**



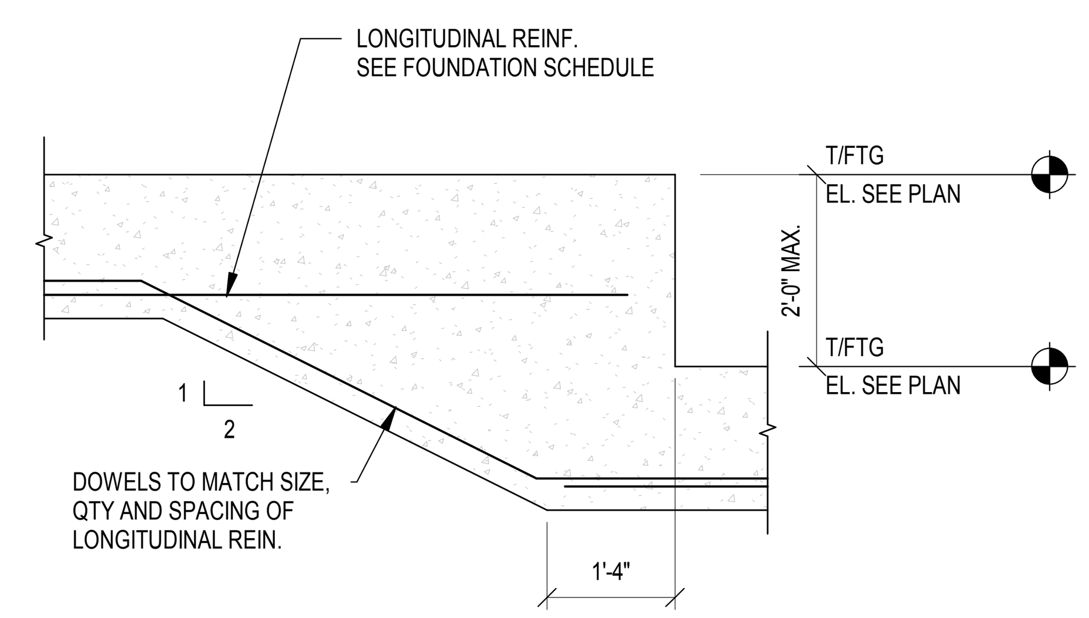
INTERIOR FOOTING AT COOLER 3/4" = 1'-0" **5**



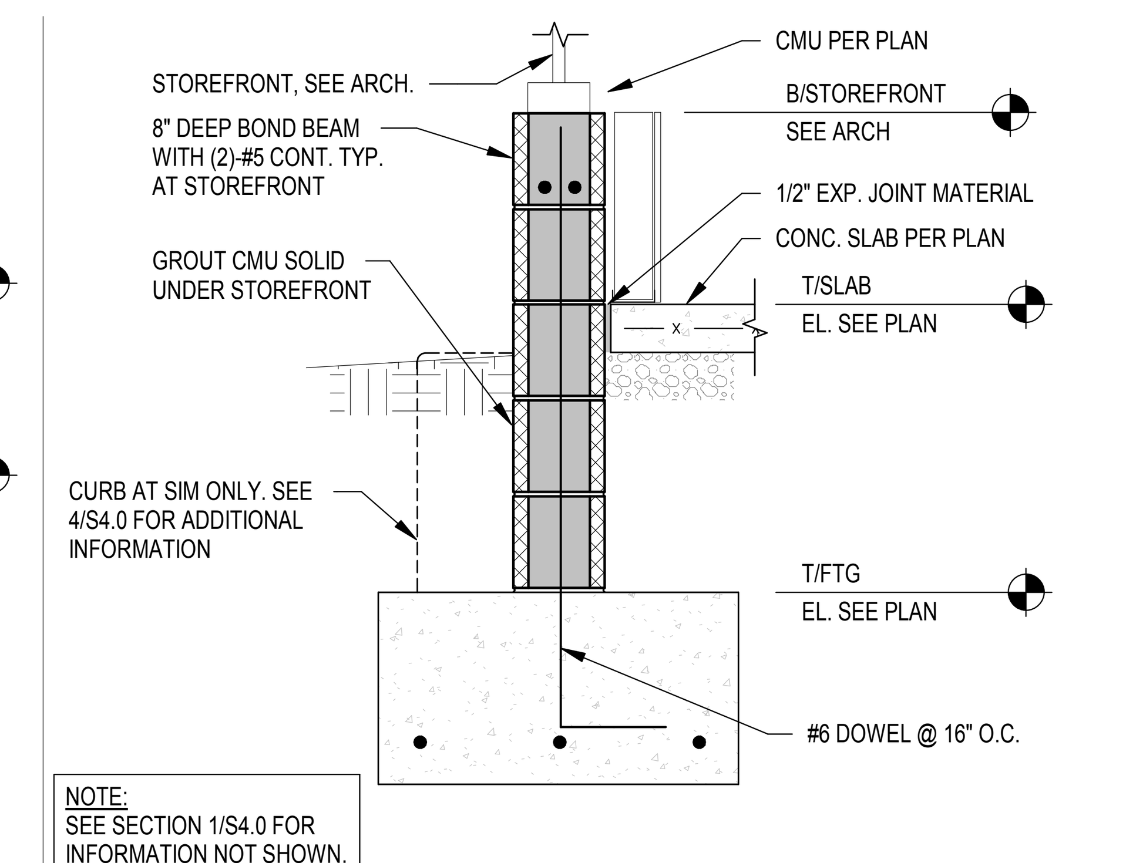
FOOTING @ SIDE & REAR WALLS 3/4" = 1'-0" **1**



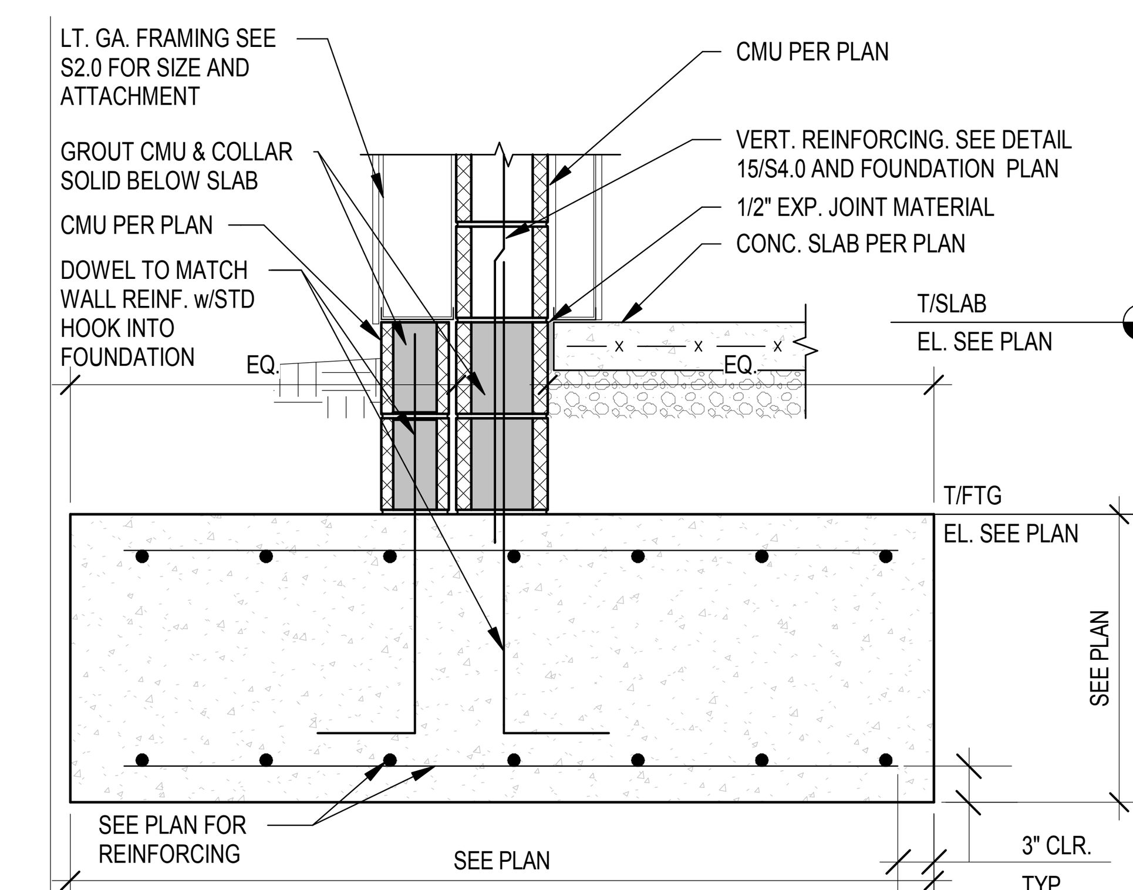
TYPICAL PIPE AT FOUNDATION / WALL DETAIL 1/2" = 1'-0" **14**



TYP. FOOTING STEP DETAIL 1/2" = 1'-0" **10**



FOOTING @ STOREFRONT 3/4" = 1'-0" **6**



FOOTING @ FRONT TOWER LEG 3/4" = 1'-0" **2**

MASONRY WALL REINFORCING, TYP.

1. ALL MASONRY WALLS ARE USED AS SPECIAL REINFORCED MASONRY SHEAR WALLS AND SHALL BE DETAILED AS SUCH.
2. REINFORCING SHOWN IS THE MINIMUM REQUIRED. SEE PLANS, DETAILS, AND NOTES FOR ADDITIONAL WALL REINFORCING REQUIRED.

   8" CMU - ALL PERIMETER WALLS VERT. REINFORCING:
   (1)-#6 VERT. @ 24" O.C. U.N.O. SEE PLANS, DETAILS, AND NOTES FOR ADDITIONAL REINFORCING REQUIRED.

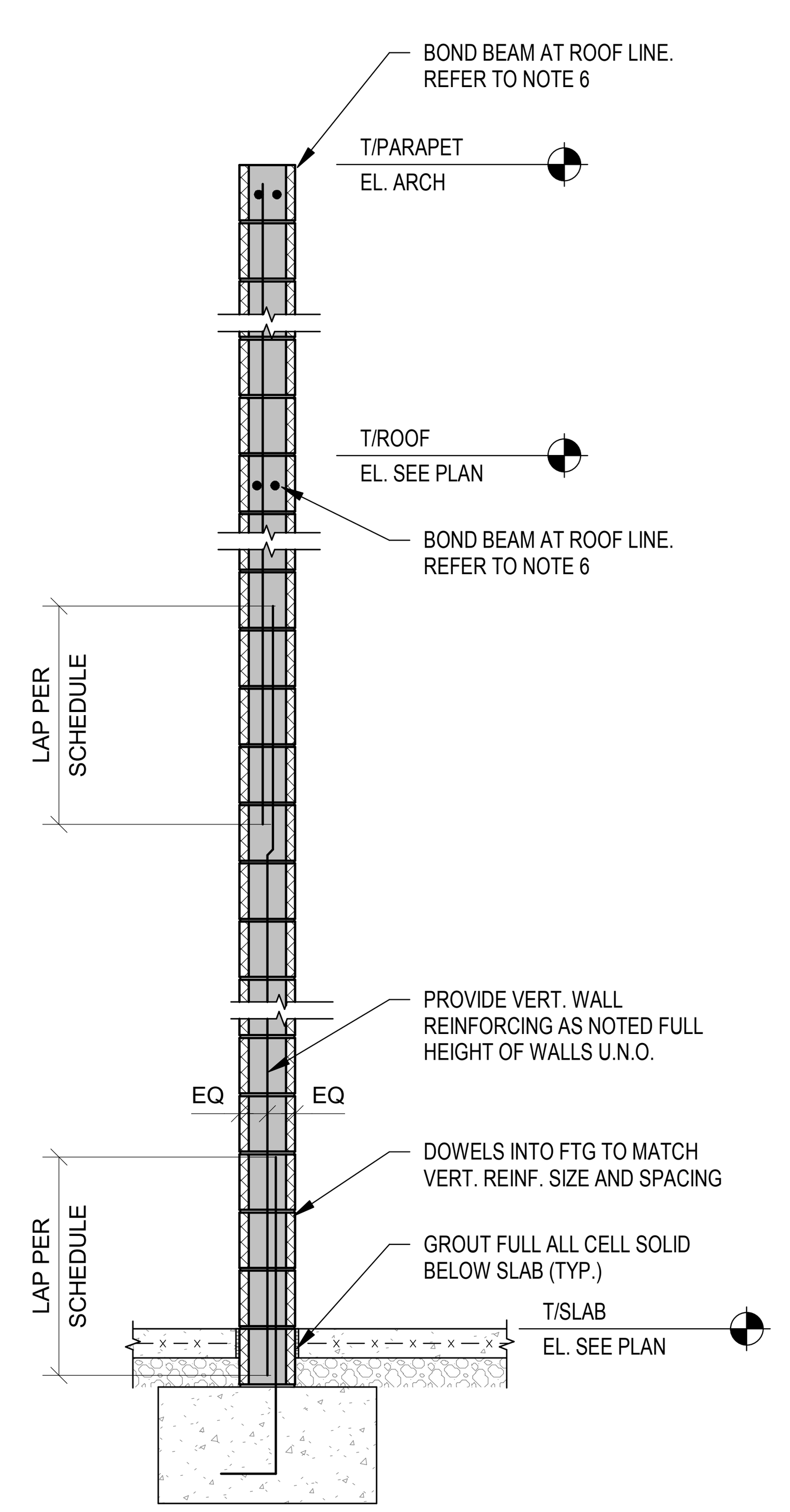
   8" CMU - INTERIOR WALLS VERT. REINFORCING:
   (1)-#6 VERT. @ 48" O.C. U.N.O. SEE PLANS, DETAILS, AND NOTES FOR ADDITIONAL REINFORCING REQUIRED.
3. REINFORCING SHALL BE CENTERED IN CMU WALL U.N.O. WHERE MULTIPLE ROWS OF REINFORCING IS REQUIRED, PROVIDE 2-1/2" COVER DISTANCE FROM EACH FACE OF CMU. PROVIDE (2)-VERTICAL BARS AT ALL CORNERS, INTERSECTIONS AND EACH SIDE OF ALL MASONRY OPENINGS & CONTROL JOINTS. (REINFORCING SIZE TO MATCH ADJACENT REINFORCING). SEE DETAIL 7/S4.0. PROVIDE DOWEL INTO FOOTING OF SAME SIZE, SPACING AND LOCATION AS VERTICAL REINFORCING. OMIT DOWELS AT DOORS.
4. WHERE ROOF SLOPES, STEP BOND BEAM REINFORCING TO FOLLOW ROOF LINE. PROVIDE CORNER BARS IN ALL BOND BEAMS AT ALL CORNERS AND INTERSECTIONS. LAP SPLICE BOND BEAM REINFORCING PER SCHEDULE ABOVE. REFER TO DETAIL 7/S4.0 FOR TYPICAL WALL REINFORCING AT WALL CORNER & INTERSECTIONS.
5. WALLS SHALL BE GROUTED AT ALL CELLS CONTAINING HORIZONTAL AND VERTICAL REINFORCING, ALL BOND BEAMS, ALL CELLS BELOW FINISHED FLOOR OR GRADE, ALL CELLS AT PARAPET ABOVE ROOF LINE, ALL CELLS TO RECEIVE ANCHOR BOLTS OR EMBEDDED PLATES, AND ALL OTHER LOCATIONS NOTED ON THE DRAWINGS TO BE GROUTED SOLID.
6. BOND BEAM REINFORCING AT ROOF LINE AS NOTED BELOW SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. SEE DETAIL 11/S4.0 FOR BOND BEAM

   BOND BEAM LOCATION AND REINFORCING SHALL BE AS FOLLOWS:

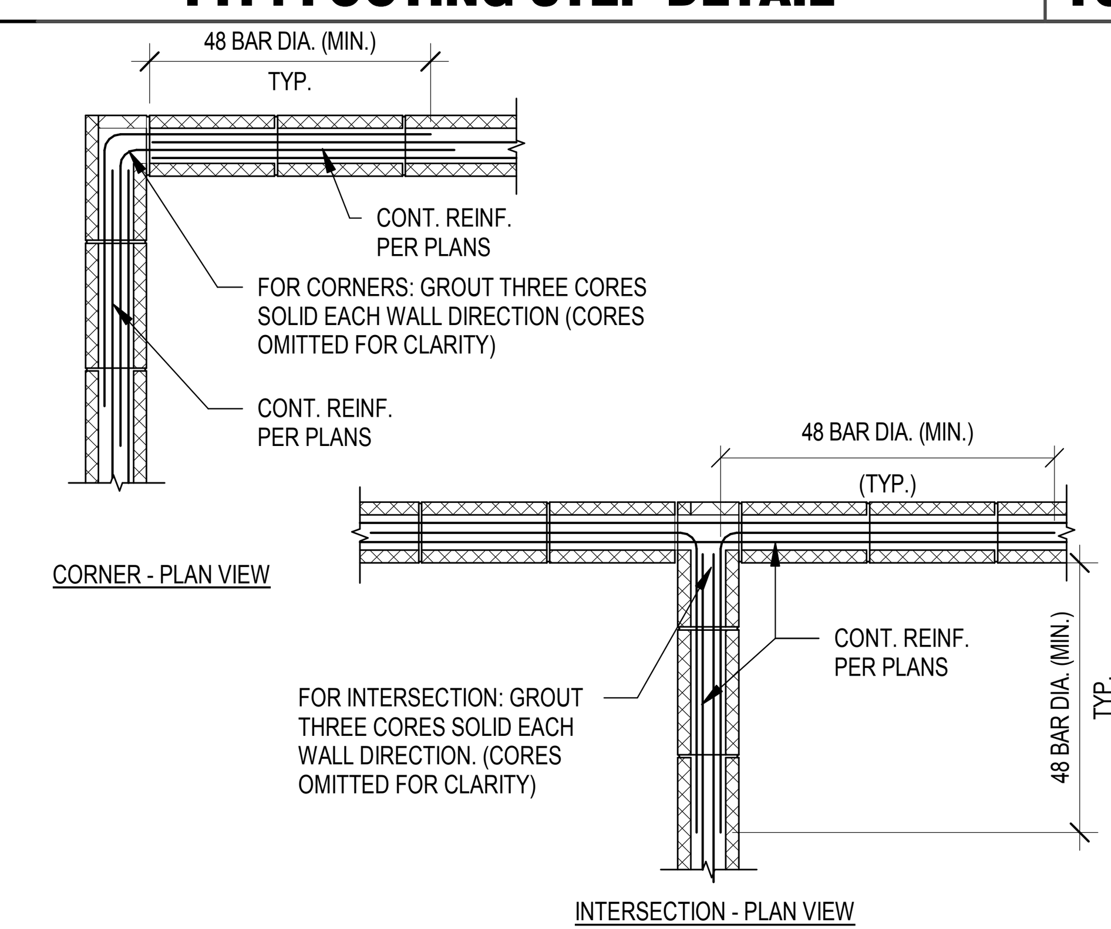
   A. (2)-#6 IN 8" DEEP BOND BEAM AT ROOF LINE.
   B. (2)-#6 IN 8" DEEP BOND BEAM AT TOP OF WALL.
   C. ADDITIONAL BOND BEAMS AS SHOWN IN WALL DETAILS AND AS NOTED IN NOTE 4.
7. PROVIDE VERTICAL CONTROL JOINTS IN WALL PER PLANS. SEE DETAIL 8/S4.0 FOR WALL CONTROL JOINT DETAIL.

8" CMU LAP SCHEDULE

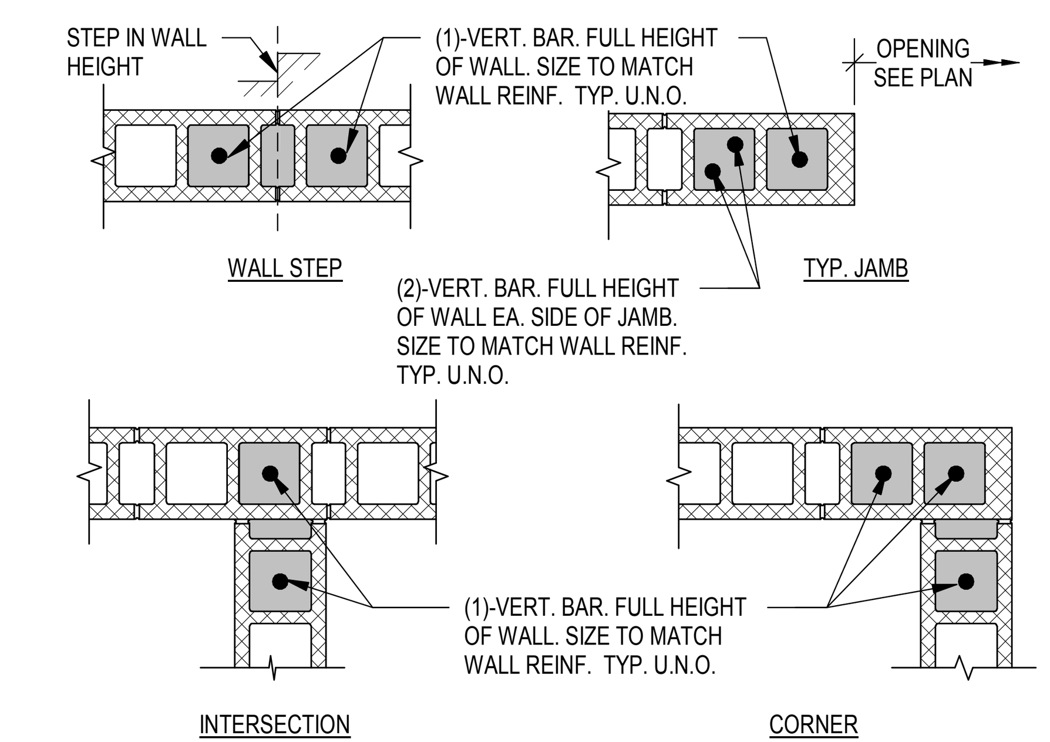
	(1)-CURTAIN REINF. CENTERED	(2)-CURTAINS OF REINF.
#4	21"	34"
#5	26"	53"
#6	40"	99"



TYP. MASONRY WALL REINFORCING SECTION & NOTES 1/2" = 1'-0" **15**

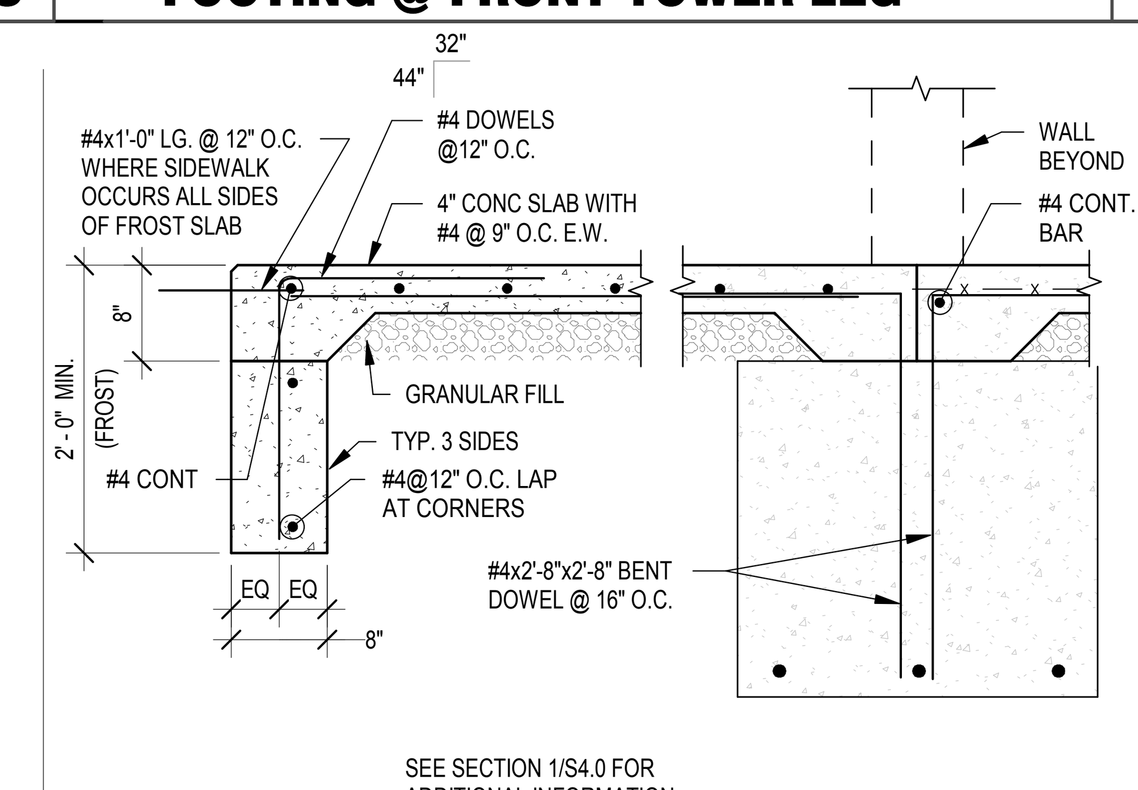


CMU BOND BEAM DETAILS 1/2" = 1'-0" **11**

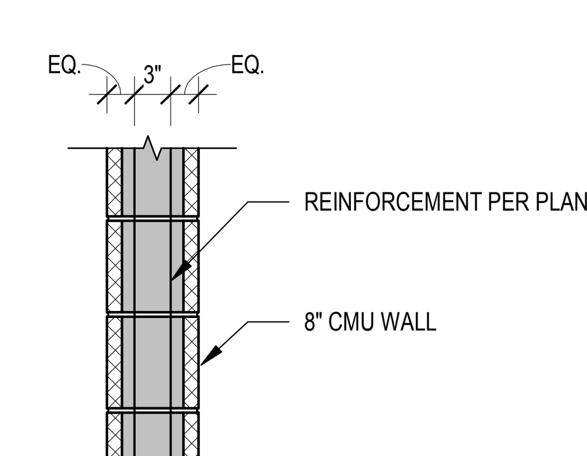


NOTES:
1. PROVIDE (3) - VERTICAL BARS AT ALL CORNERS U.N.O.
2. ALL INTERSECTING MASONRY CORNERS SHALL BE TIED BY MASONRY BOND.
3. REFER TO DETAIL 15/S4.0 FOR ADDITIONAL INFORAMATION.

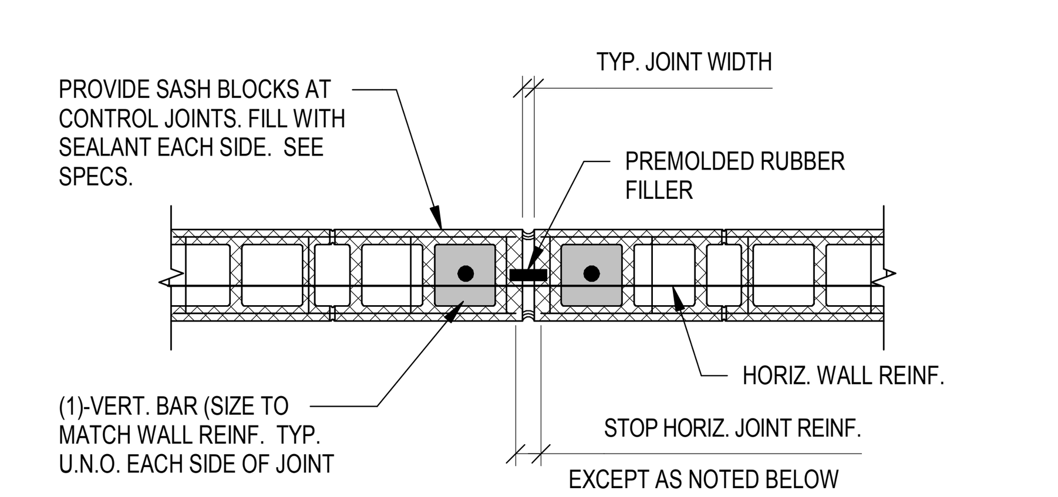
TYP. MASONRY REINF. DETAILS 3/4" = 1'-0" **7**



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

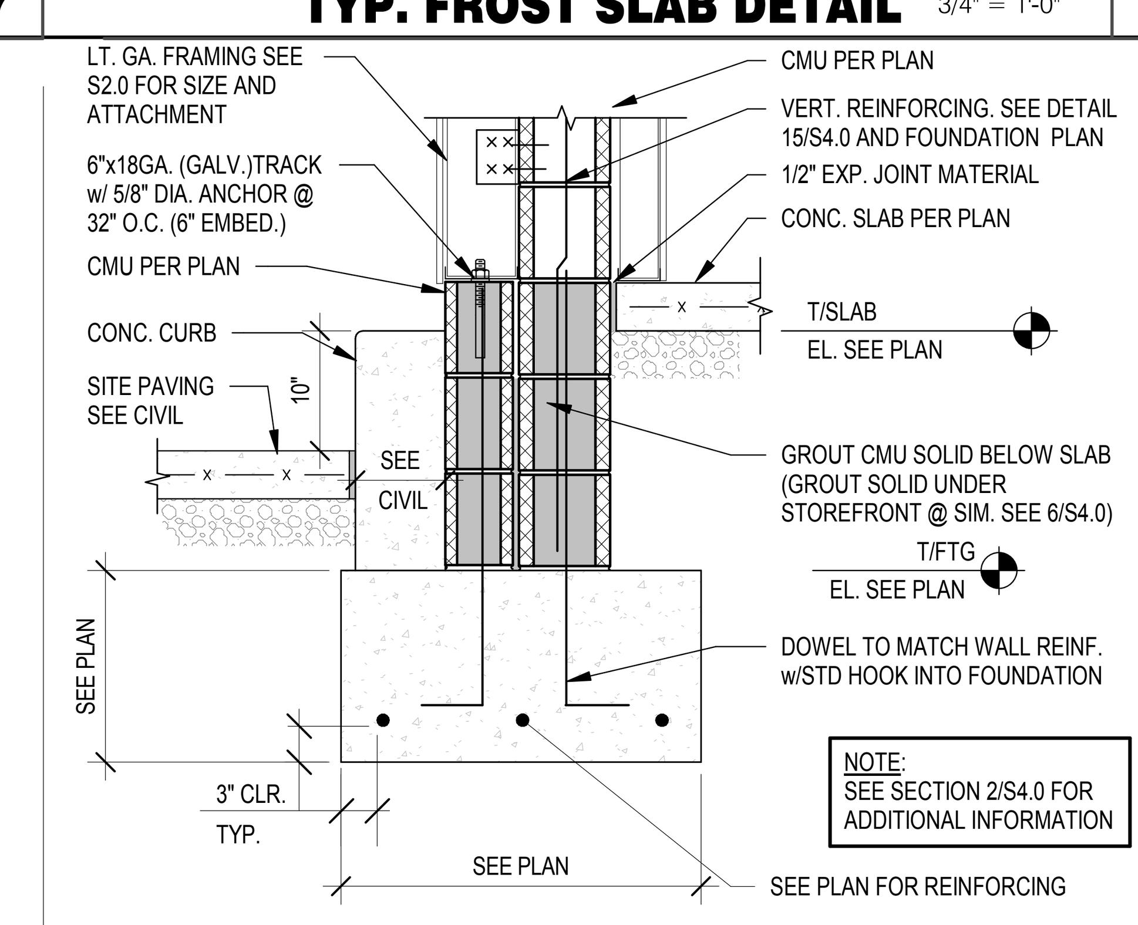


TYP. REINF. AT TOWER WALLS 3/4" = 1'-0" **12**



NOTES:
1. OBTAIN ARCHITECT'S APPROVAL OF 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 3/4" = 1'-0" **8**



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

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TACO BELL

5201 Hamlin Groves Trl
Winter Garden, FL 34787

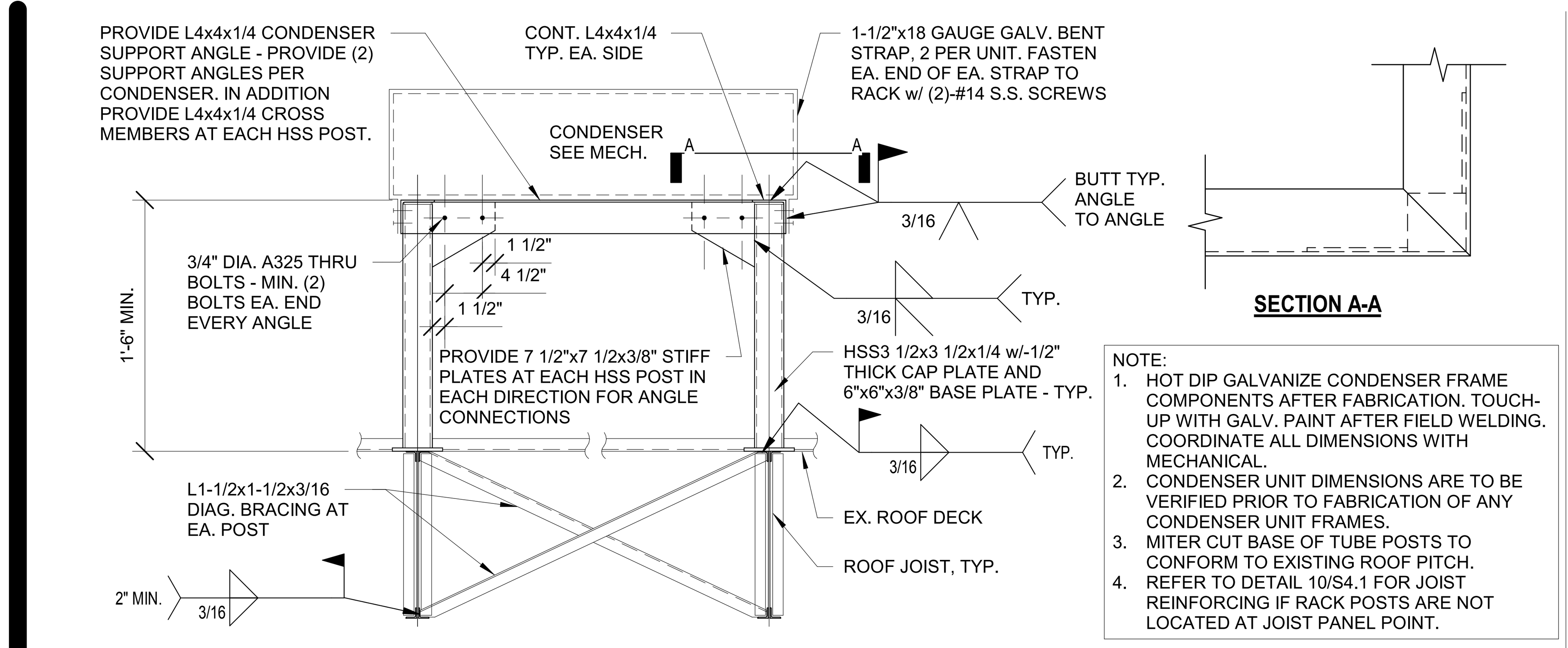
TACO BELL

ENDEAVOR 2.0
STRUCTURAL DETAILS FOUNDATION

S4.0

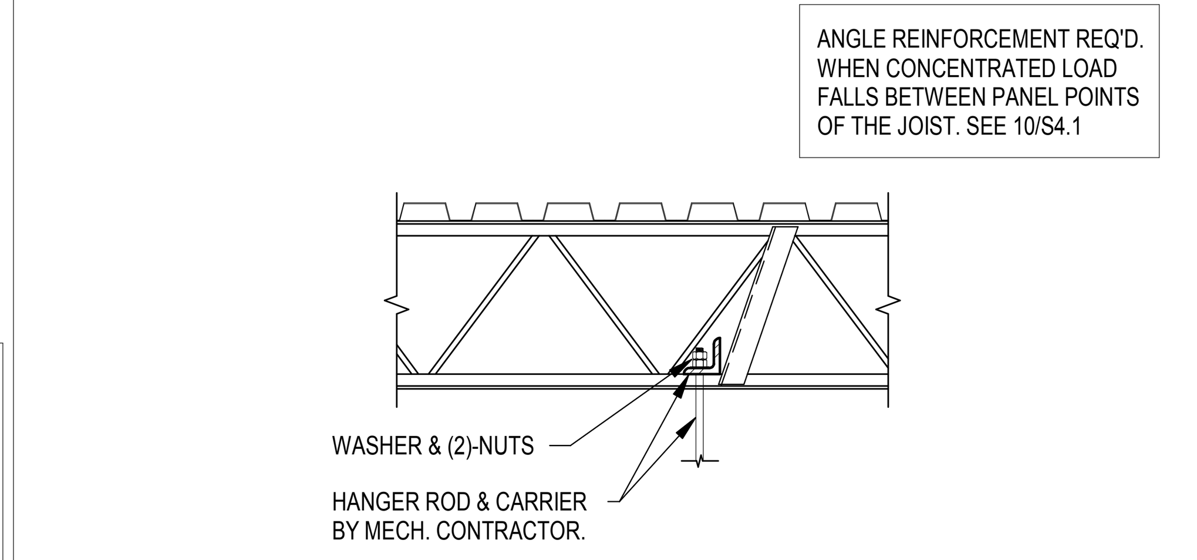
PLOT DATE: 5/3/2022 8:29:08 AM

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



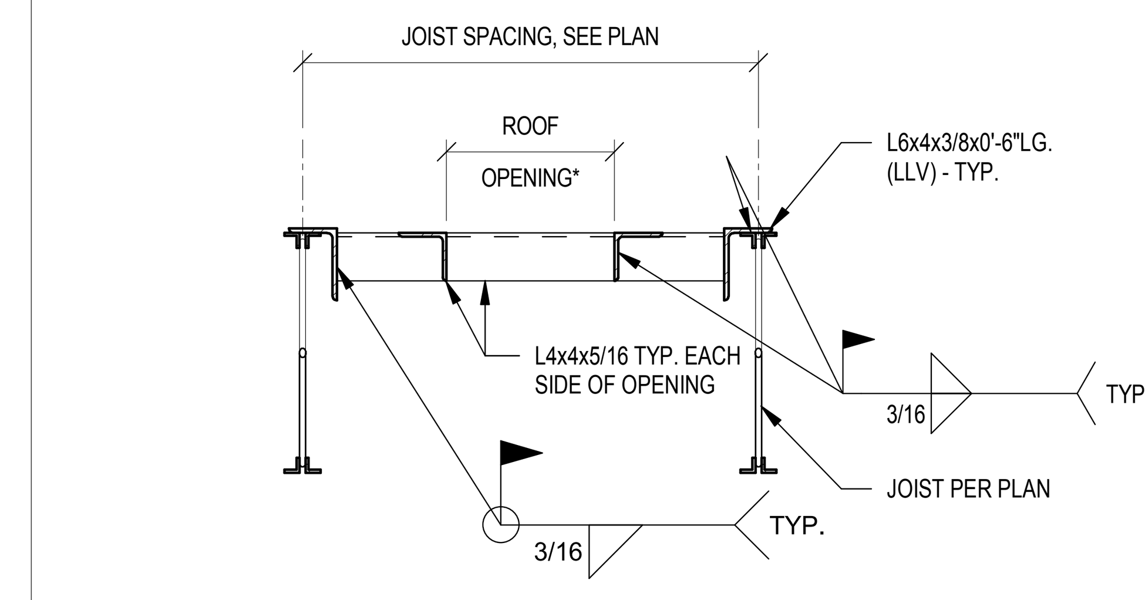
NOTE:
1. HOT DIP GALVANIZE CONDENSER FRAME COMPONENTS AFTER FABRICATION. TOUCH-UP WITH GALV. PAINT AFTER FIELD WELDING. COORDINATE ALL DIMENSIONS WITH MECHANICAL.
2. CONDENSER UNIT DIMENSIONS ARE TO BE VERIFIED PRIOR TO FABRICATION OF ANY CONDENSER UNIT FRAMES.
3. MITER CUT BASE OF TUBE POSTS TO CONFORM TO EXISTING ROOF PITCH.
4. REFER TO DETAIL 10/S4.1 FOR JOIST REINFORCING IF RACK POSTS ARE NOT LOCATED AT JOIST PANEL POINT.

TYP. MECHANICAL RACK SUPPORT 3/4" = 1'-0" **12**



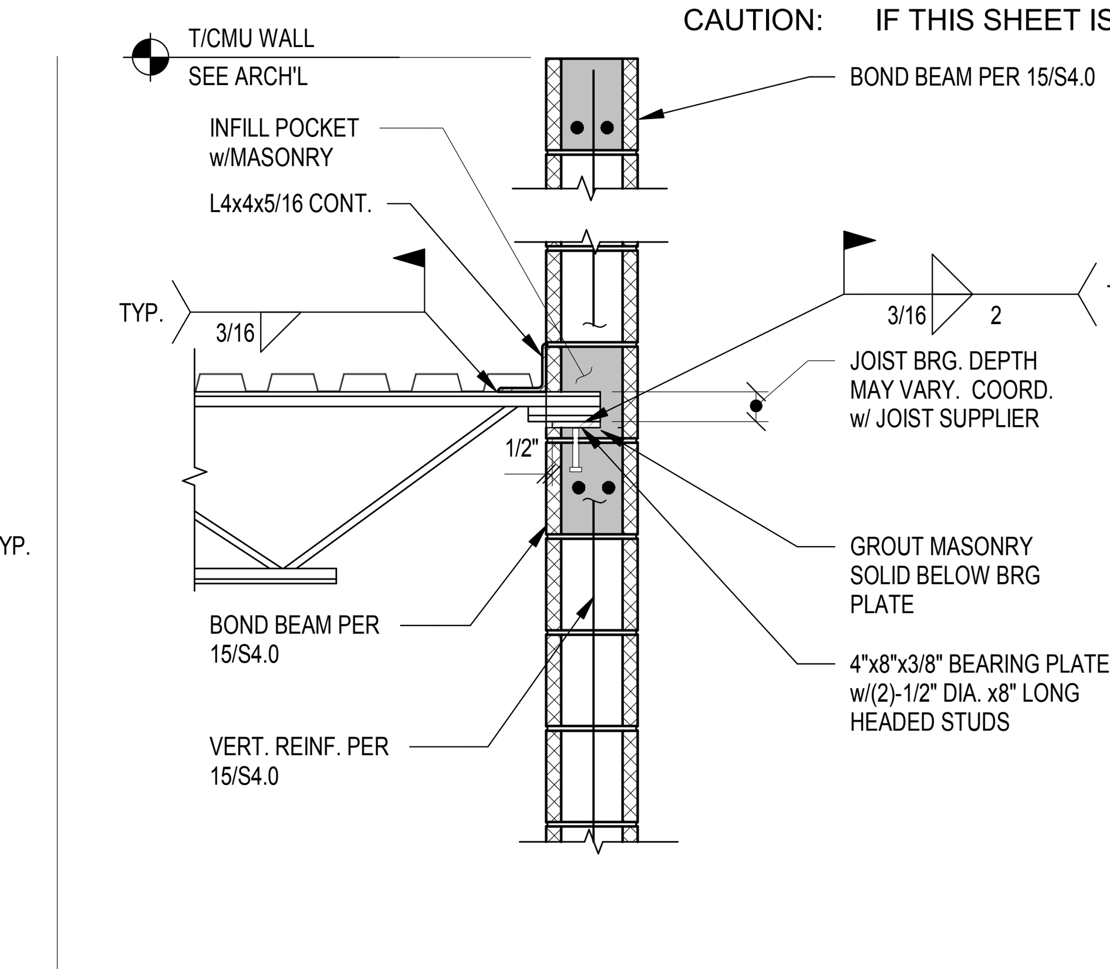
NOTE: WHEN A CONCENTRATED LOAD OCCURS BETWEEN CHORD PANEL POINTS, PROVIDE ANGLE REINFORCEMENT AS SHOWN IF THE APPLIED LOAD EXCEEDS 100 LBS. IF MULTIPLE CONCENTRATED LOADS OCCUR BETWEEN CHORD PANEL POINTS, THE SUM OF THE CONCENTRATED LOADS SHALL NOT EXCEED 100 LBS.

TYP. HANGER SUPPORT DETAIL 3/4" = 1'-0" **8**

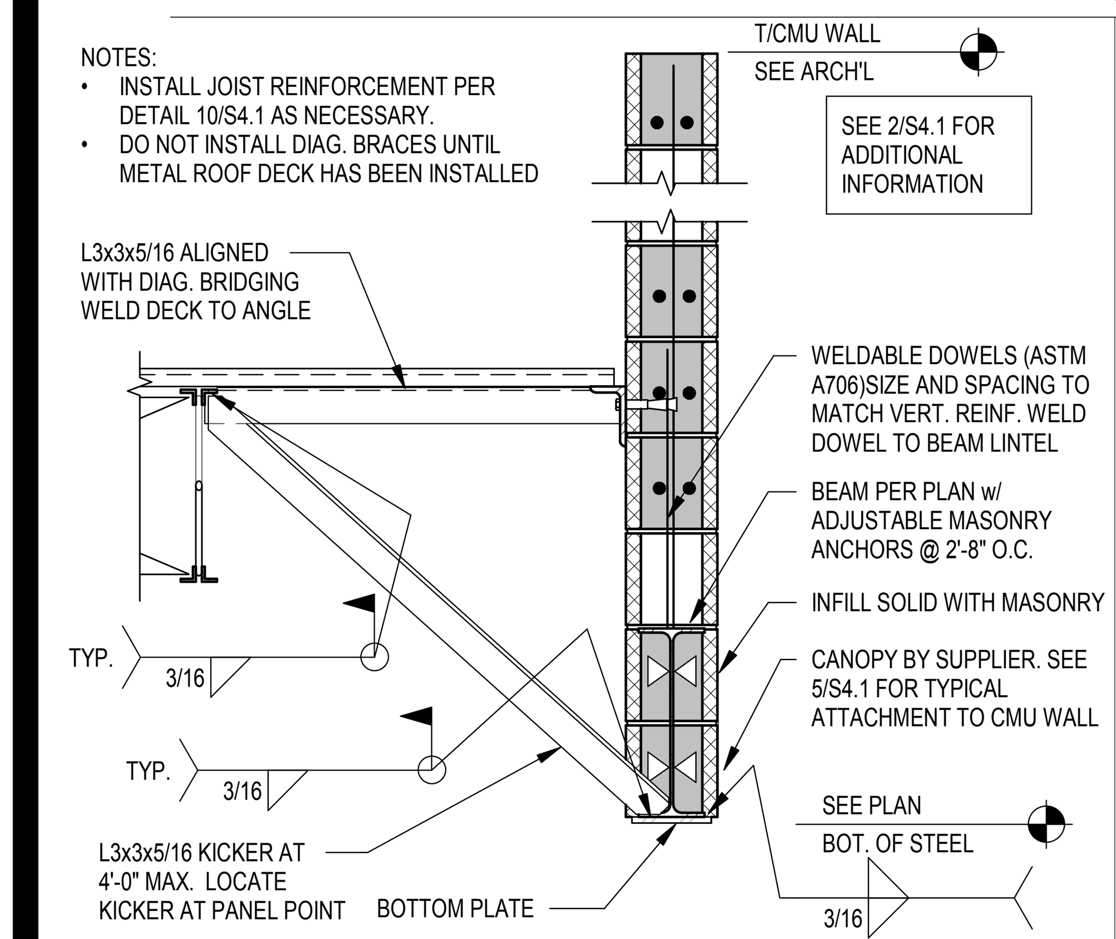


* FOR ALL ROOF OPENINGS 12" OR GREATER. COORD. OPENING SIZES AND LOCATIONS WITH ARCHITECT & MECHANICAL CONTRACTOR.

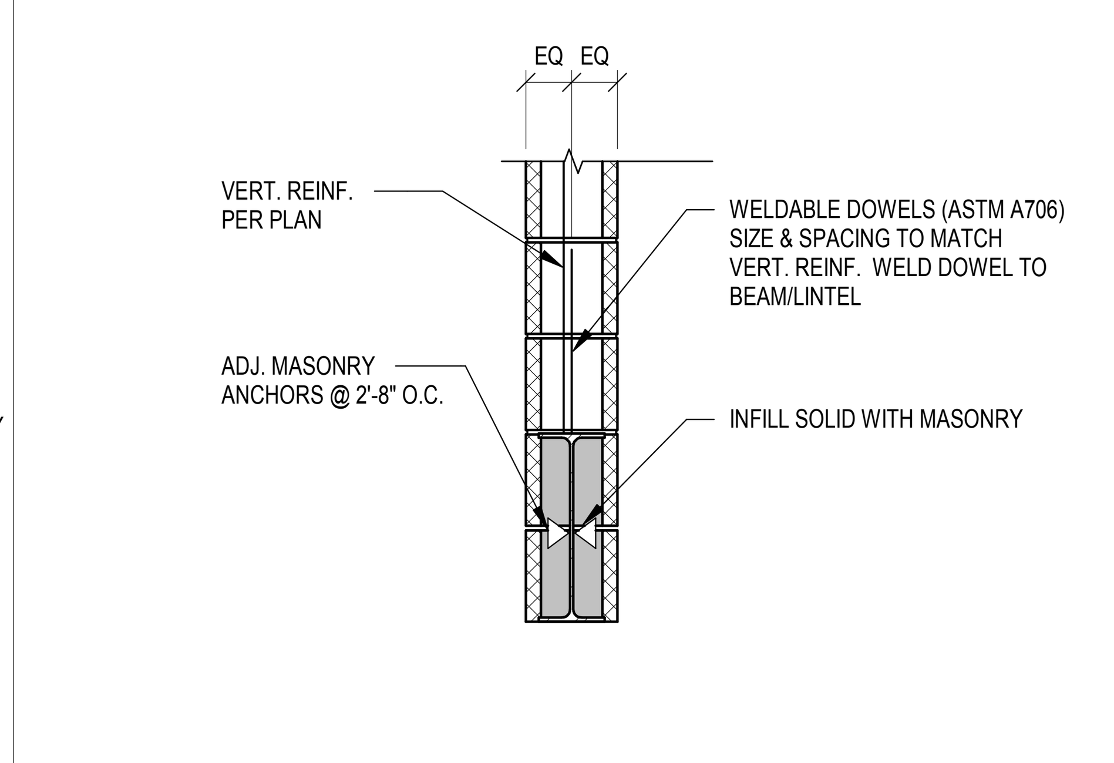
TYP. ROOF OPENING DETAIL 3/4" = 1'-0" **4**



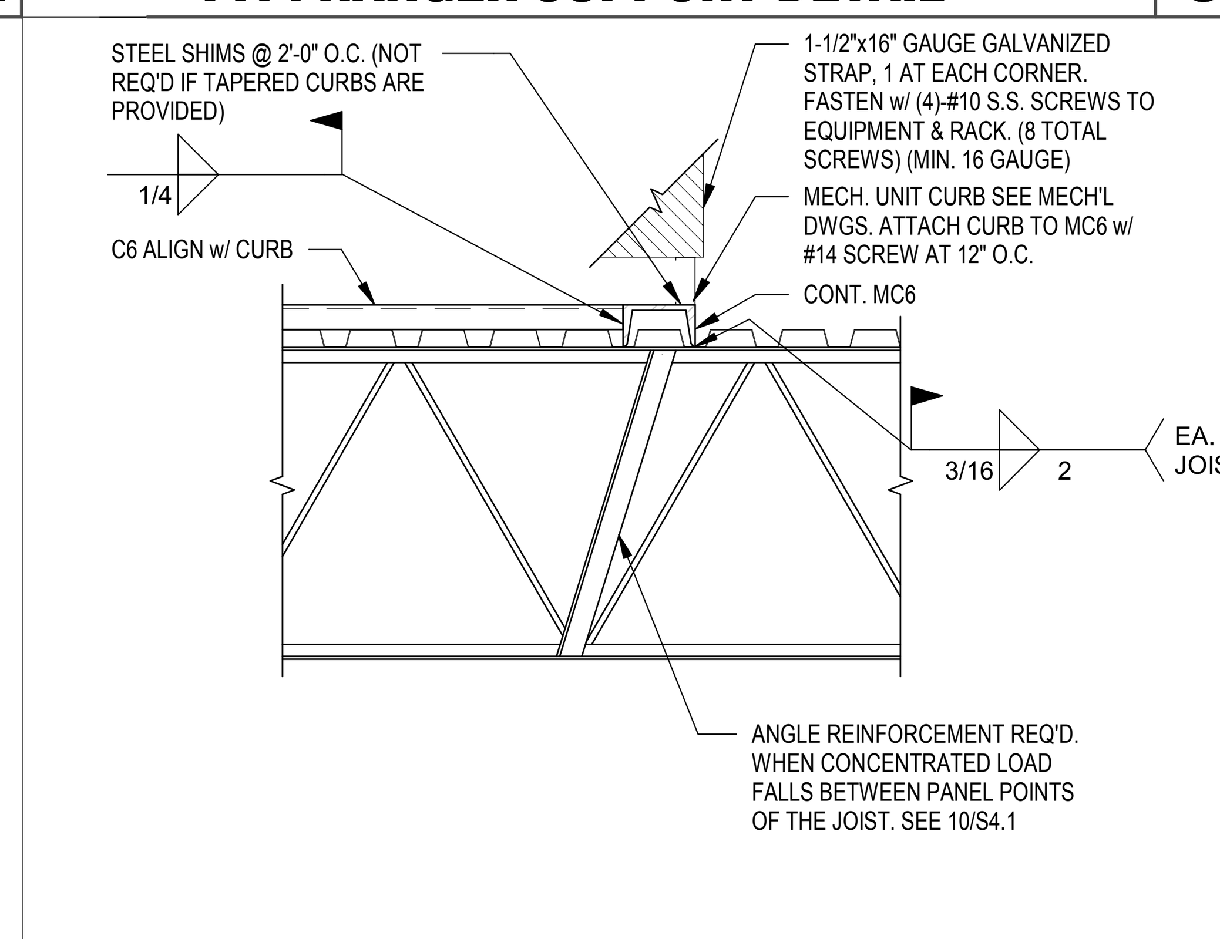
TYP. JOIST BEARING DETAIL 3/4" = 1'-0" **1**



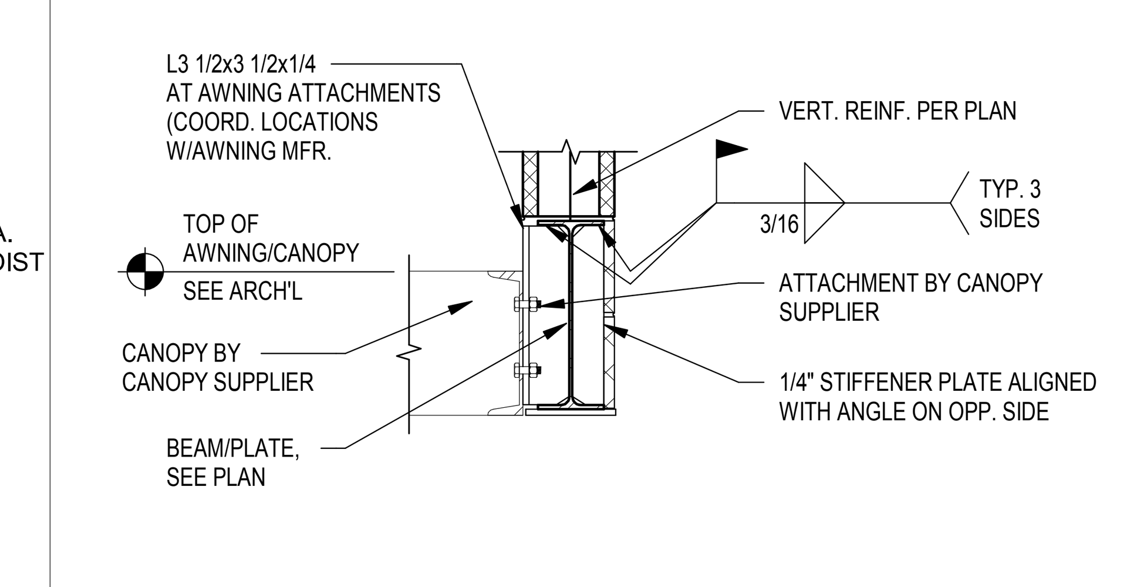
TYP. NON-JST BRG @ WINDOW 3/4" = 1'-0" **16**



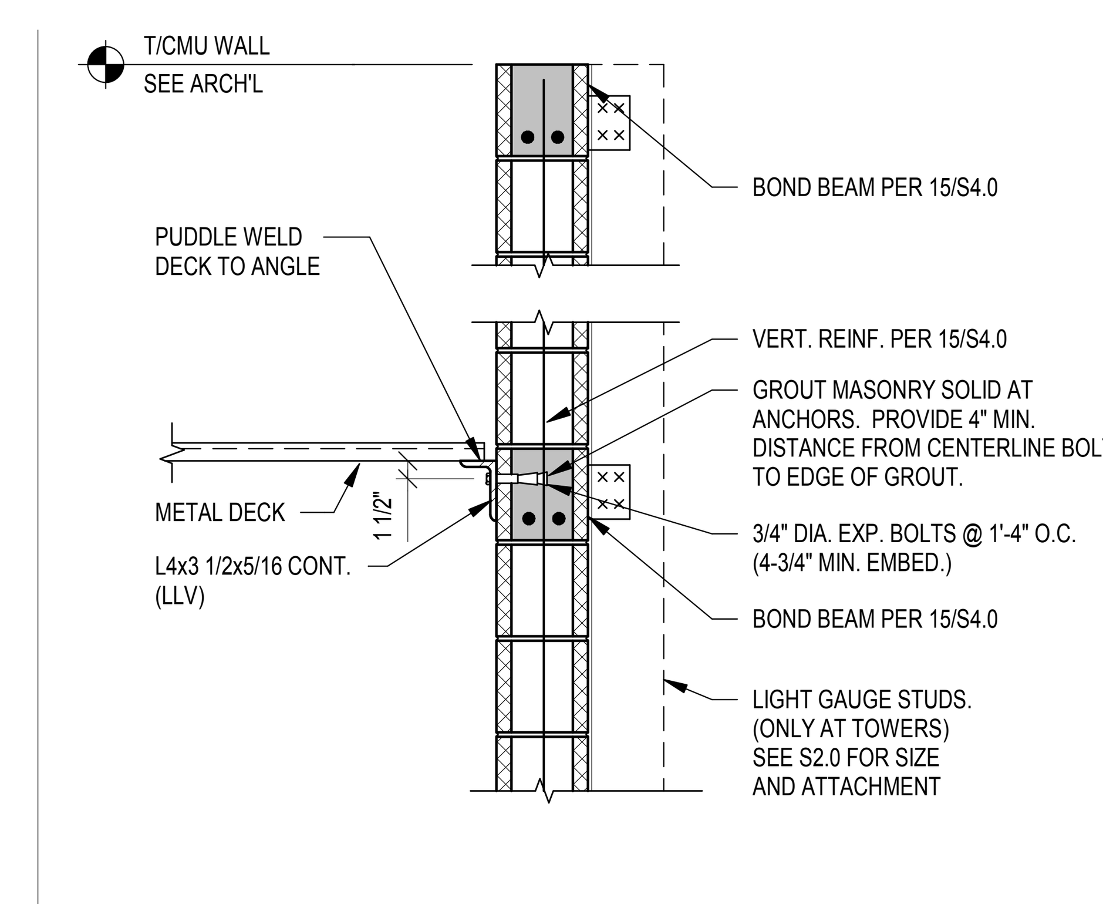
TYP. STEEL LINTEL DETAIL 3/4" = 1'-0" **13**



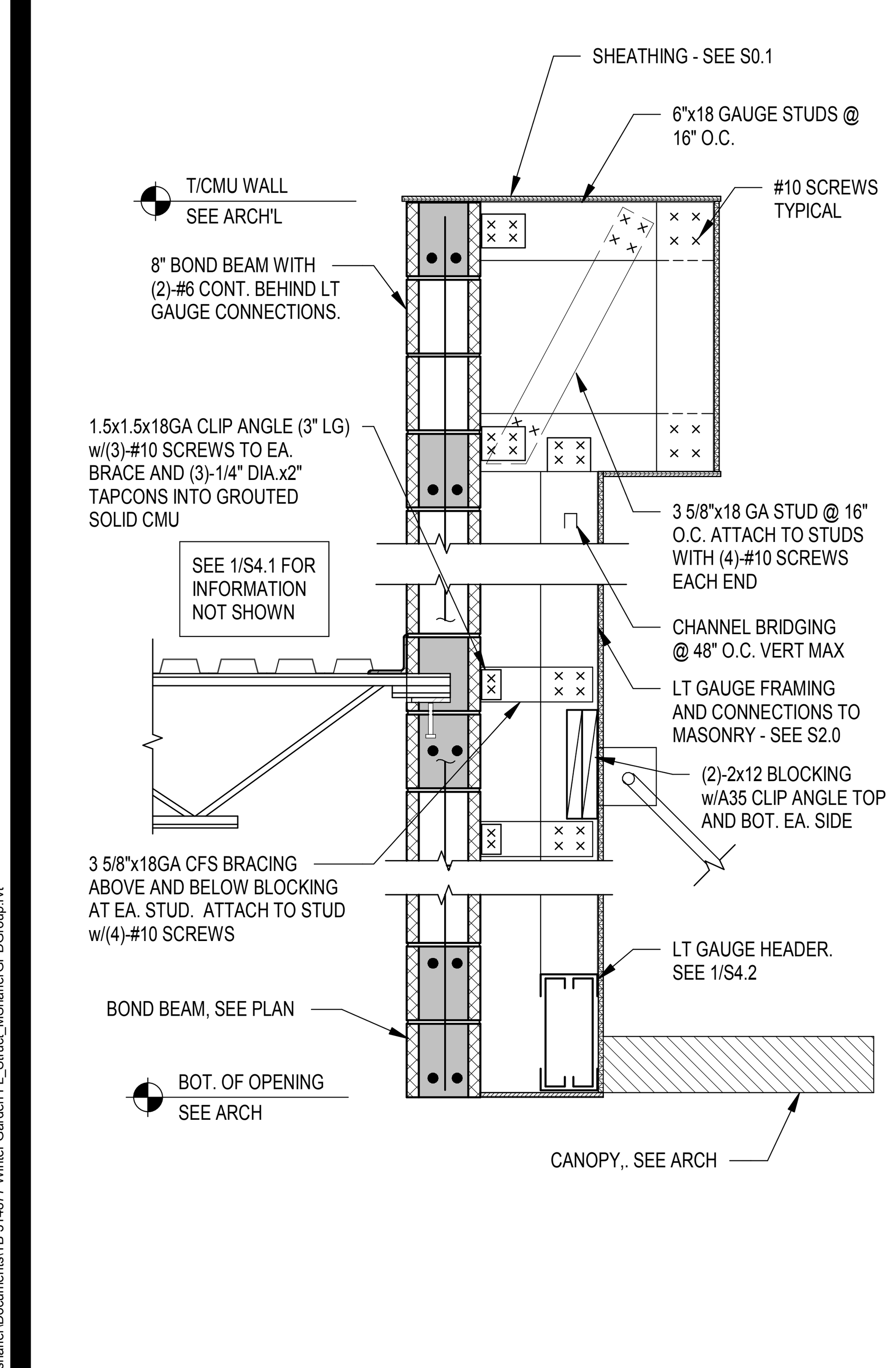
TYP. RTU SUPPORT DETAIL 3/4" = 1'-0" **9**



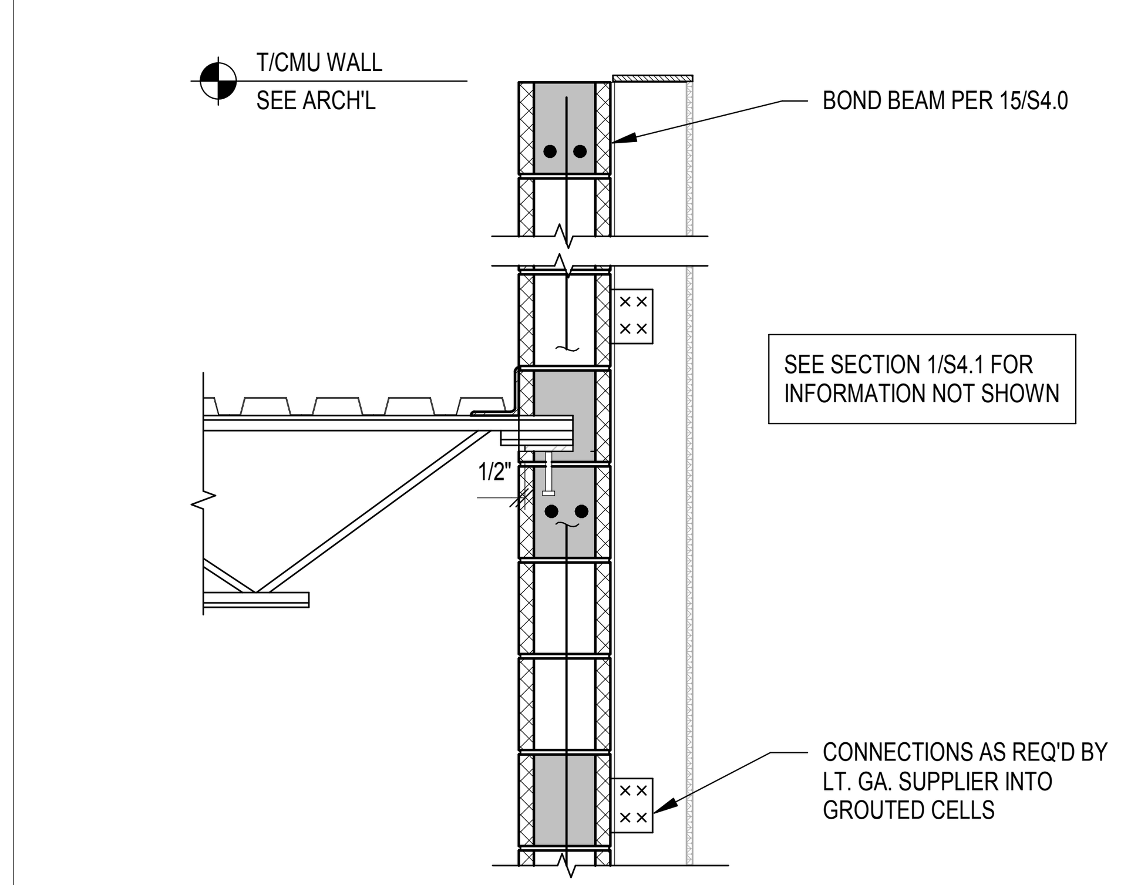
CANOPY ATTACHMENT N.T.S. **5**



TYP. ROOF NON-BEARING DETAIL 3/4" = 1'-0" **2**

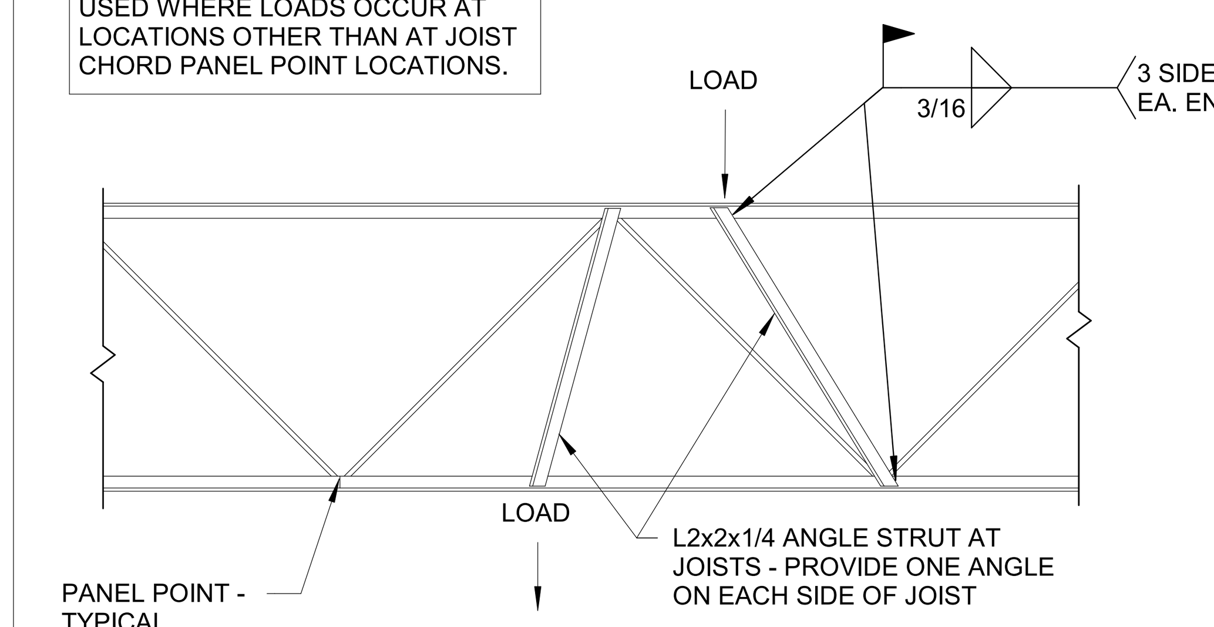


SECTION @ SIDE ENTRANCE 3/4" = 1'-0" **17**



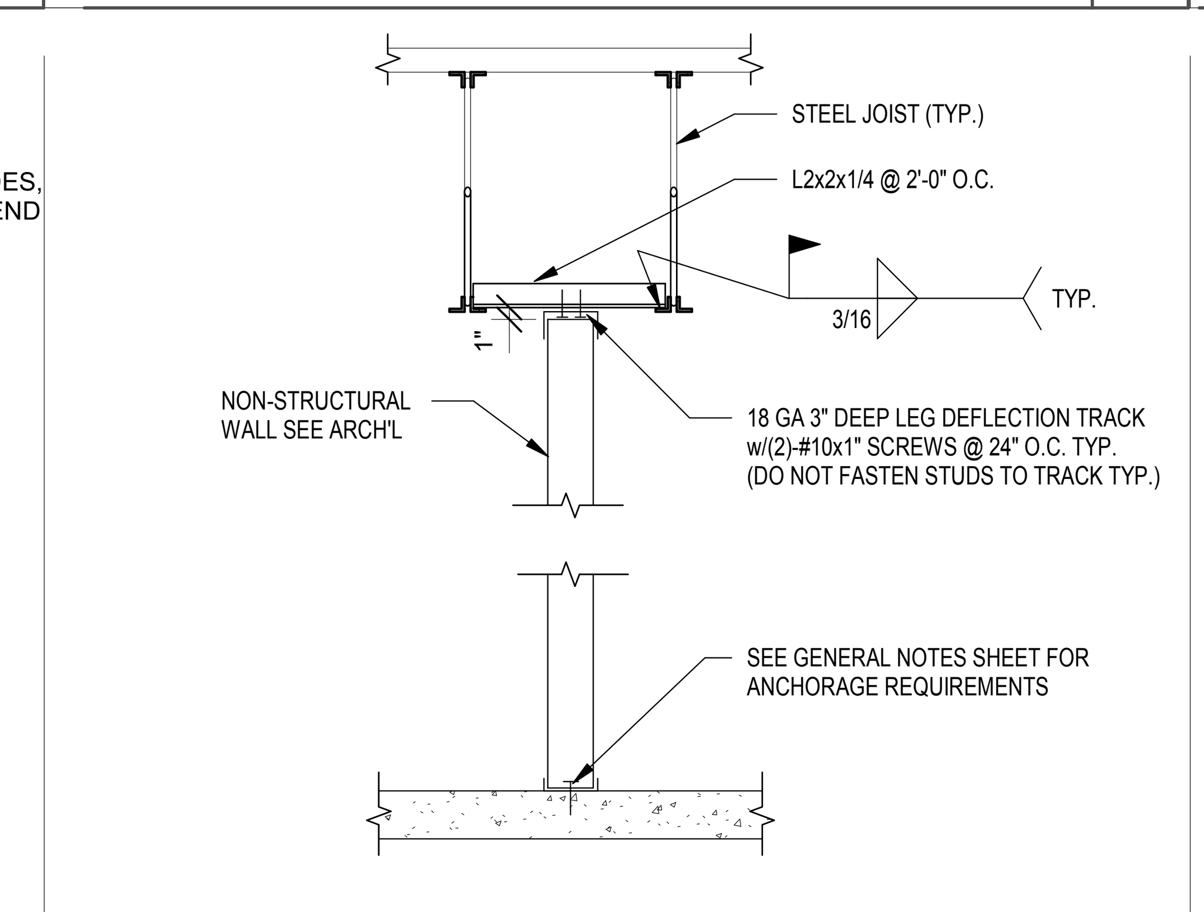
SECTION @ TOWER 3/4" = 1'-0" **14**

NOTE:
THIS DETAIL IS INTENDED TO BE USED WHERE LOADS OCCUR AT LOCATIONS OTHER THAN AT JOIST CHORD PANEL POINT LOCATIONS.

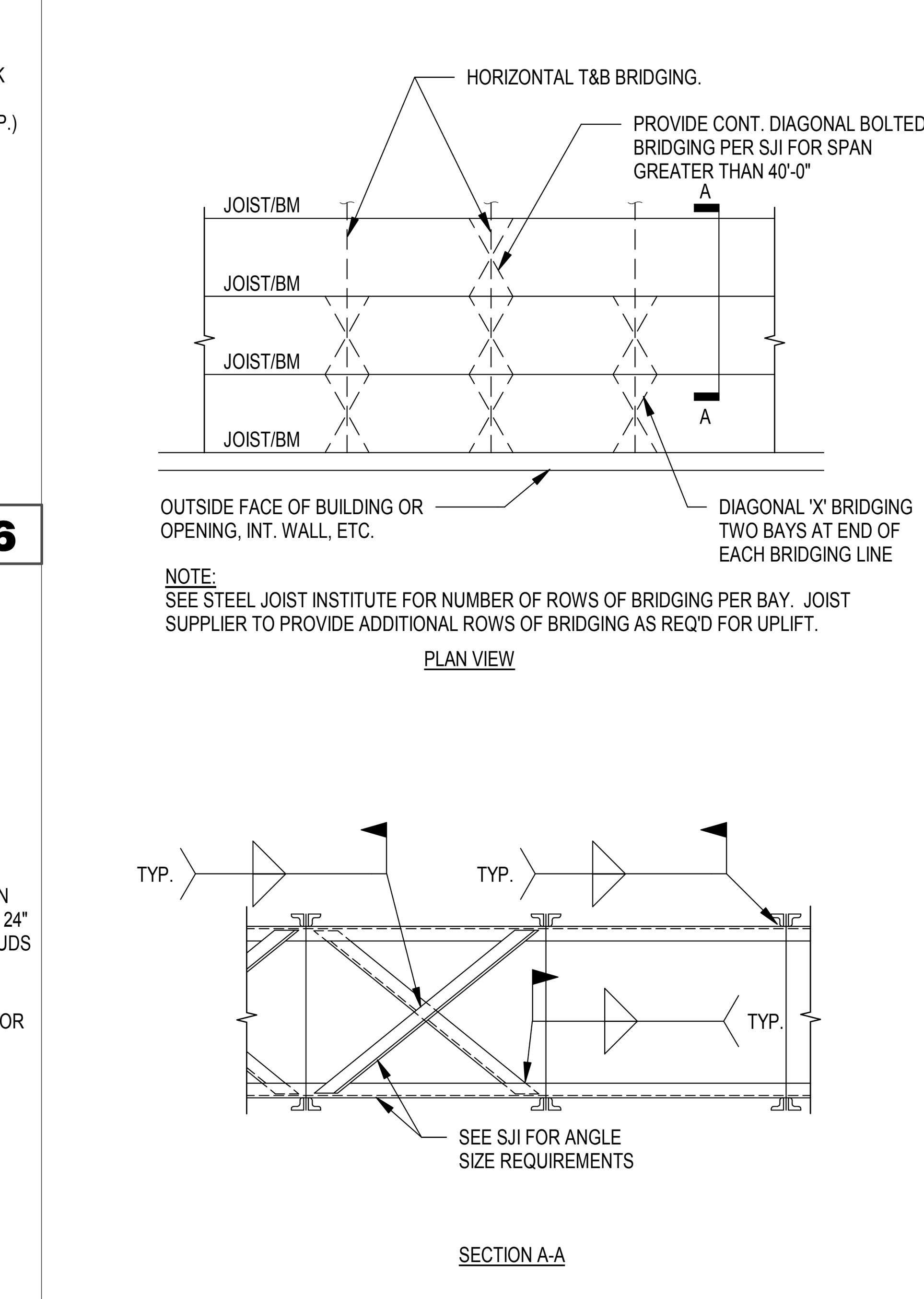


NOTE: WHEN A CONCENTRATED LOAD OCCURS BETWEEN CHORD PANEL POINTS, PROVIDE ANGLE REINFORCEMENT AS SHOWN IF THE APPLIED LOAD EXCEEDS 100 LBS. IF MULTIPLE CONCENTRATED LOADS OCCUR BETWEEN CHORD PANEL POINTS, THE SUM OF THE CONCENTRATED LOADS SHALL NOT EXCEED 100 LBS.

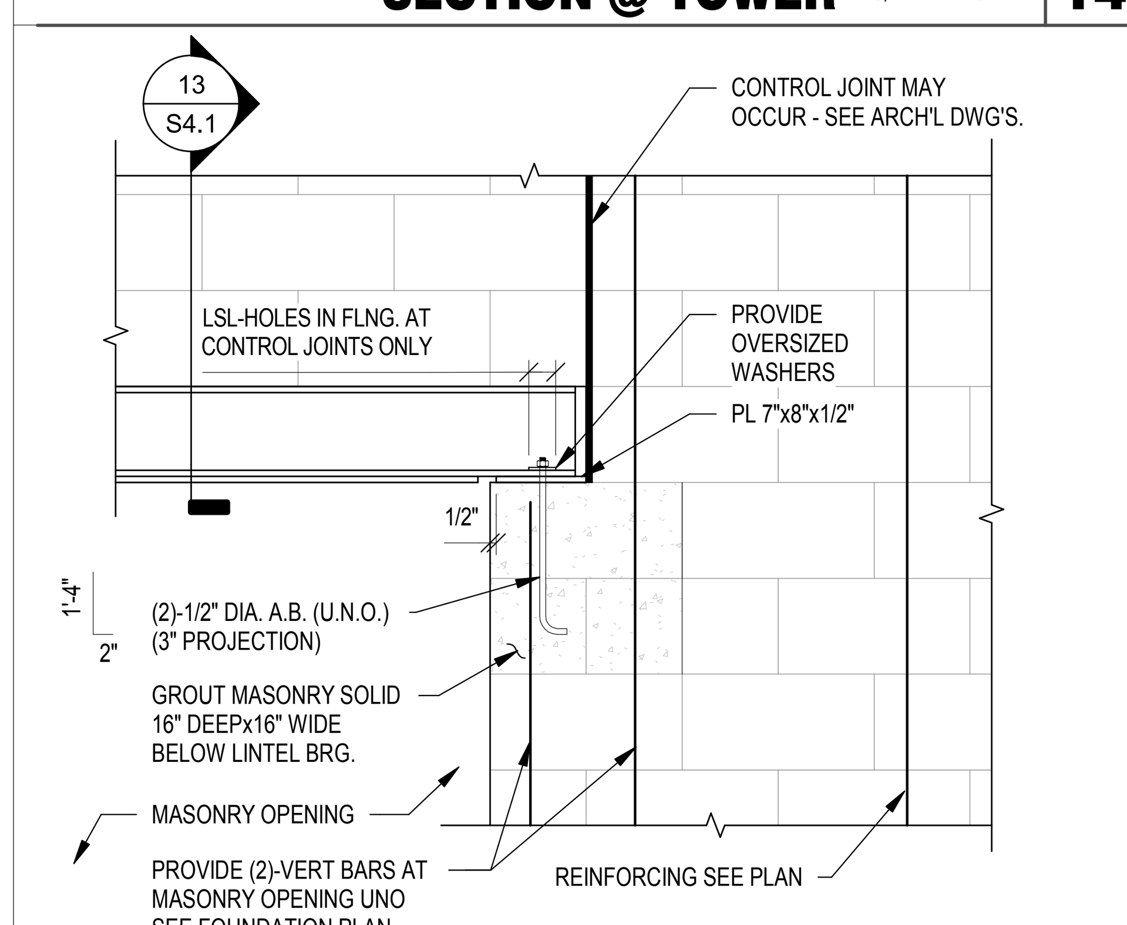
TYP. JOIST REINFORCEMENT DETAIL 3/4" = 1'-0" **10**



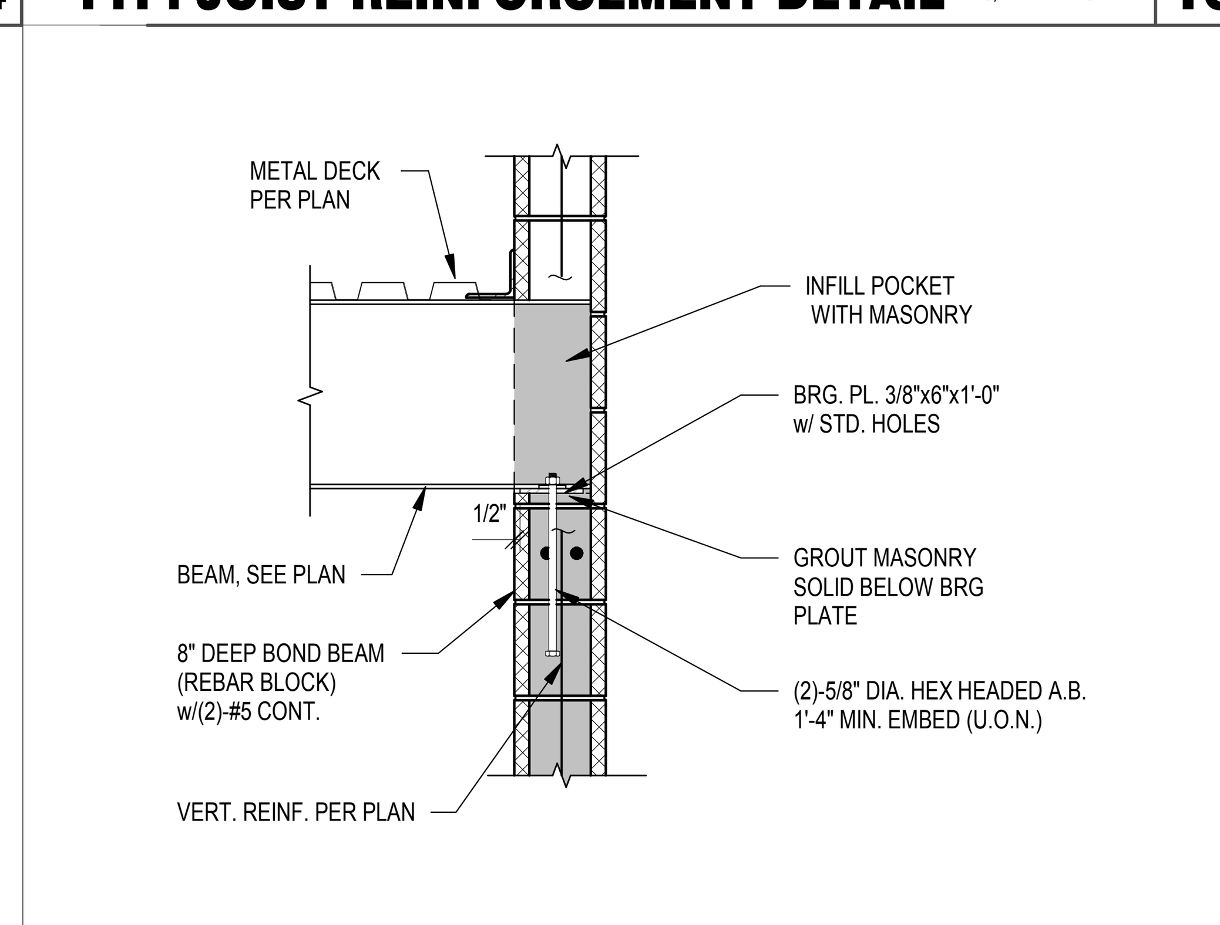
NON-STRUCT. WALL SUPPORT 3/4" = 1'-0" **6**



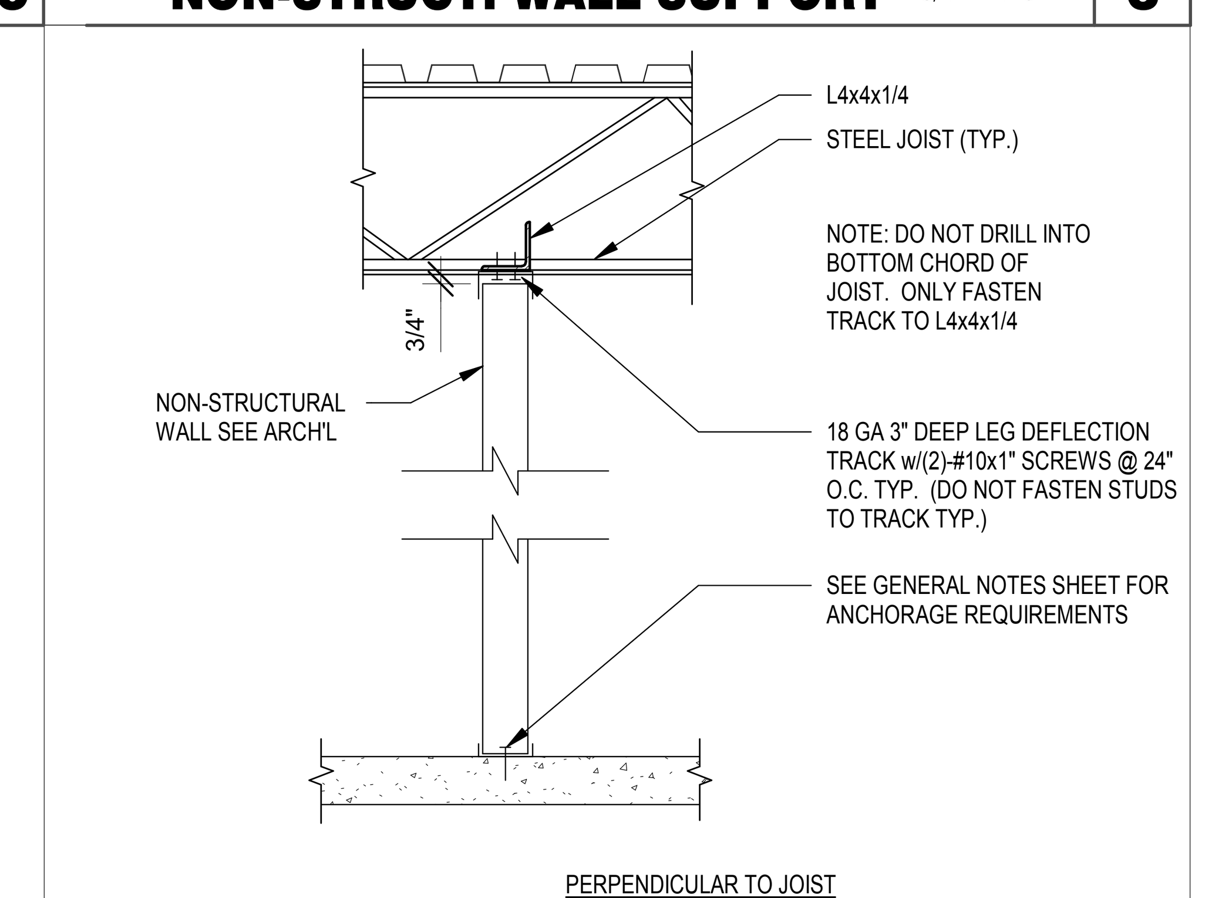
TYP. JOIST BRIDGING DETAIL 3/4" = 1'-0" **3**



TYP. STEEL LINTEL BEARING 3/4" = 1'-0" **15**



STL. BEAM BRG. DETAIL 3/4" = 1'-0" **11**



NON-STRUCT. WALL SUPPORT 3/4" = 1'-0" **7**

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05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	JRM
JOB NO.:	2021088.17

TACO BELL

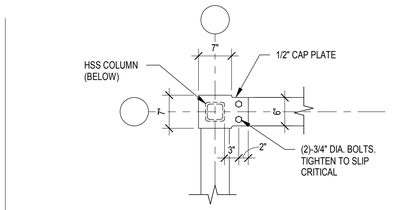
5201 Hamlin Groves Trl
Winter Garden, FL 34787

ENDEAVOR 2.0
STRUCTURAL DETAILS FRAMING

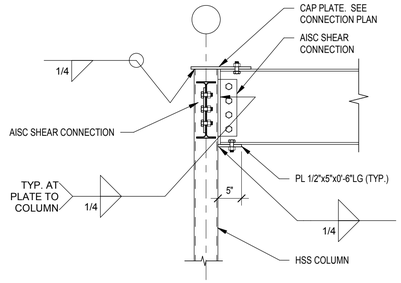
S4.1

PLOT DATE: 5/3/2022 8:29:14 AM

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

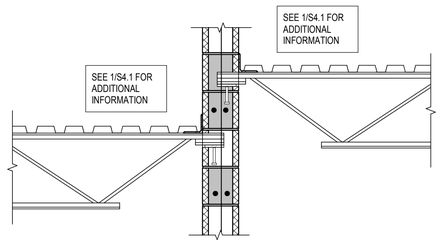


MOMENT CONNECTION PLAN

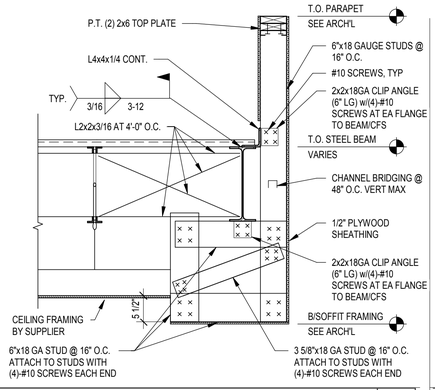


ELEVATION

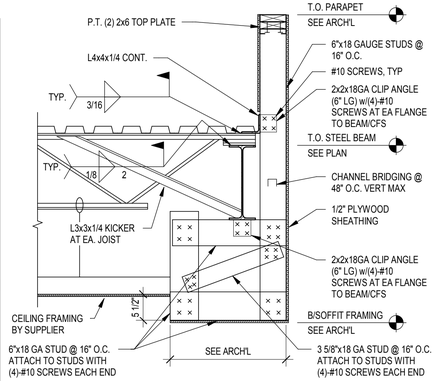
TYP. MOMENT CONN. DETAIL 3/4" = 1'-0" | **6**



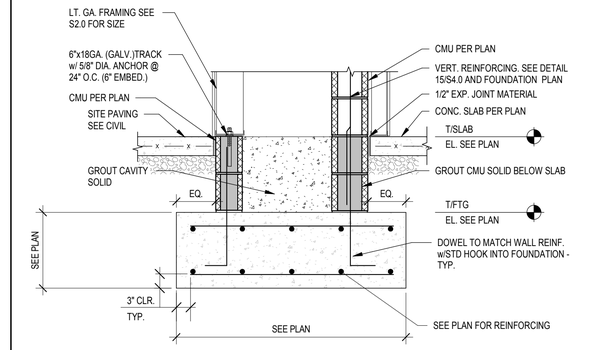
SECTION AT PORTICO 3/4" = 1'-0" | **5**



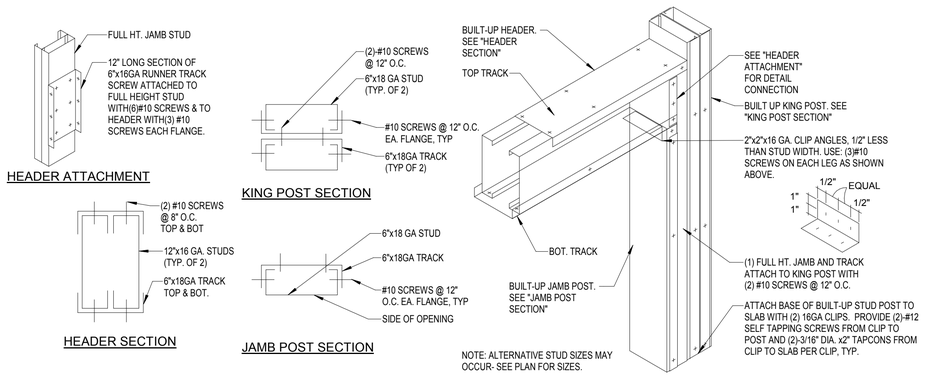
SECTION AT PORTICO 3/4" = 1'-0" | **4**



SECTION AT PORTICO 3/4" = 1'-0" | **3**



SECTION AT SIDE TOWERS 3/4" = 1'-0" | **2**



TYP. COLD-FORMED CONSTRUCTION DETAILS 12" = 1'-0" | **1**

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

DATE	REMARKS
05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: JRM
JOB NO.: 2021088.17

TACO BELL

5201 Hamlin Groves Trl
Winter Garden, FL 34787

ENDEAVOR 2.0

STRUCTURAL DETAILS FOUNDATION AND FRAMING

S4.2

PLOT DATE: 5/3/2022 8:29:18 AM

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

GENERAL LEGEND:

EXISTING

- EXISTING IRON PIN FOUND AS NOTED
- EXISTING MAG NAIL FOUND AS NOTED
- EB — EXISTING LIGHT POLE
- T — EXISTING TRANSFORMER
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- S — EXISTING SANITARY MANHOLE
- TR — EXISTING TELEPHONE RISER
- EXISTING WATER VALVE
- EXISTING IRRIGATION/WATER CONTROL BOX
- IV — EXISTING IRRIGATION VALVE
- FOC — EXISTING FIBER OPTIC CONNECTION
- EXISTING SIGN
- P/L — EXISTING PROPERTY LINE
- —g— EXISTING UNDERGROUND GAS LINES
- —st— EXISTING UNDERGROUND STORM LINES
- —san— EXISTING UNDERGROUND SANITARY LINES
- —w— EXISTING UNDERGROUND WATER LINES
- EXISTING CURB
- EXISTING CURB & GUTTER
- 000 — EXISTING CONTOUR
- EXISTING FENCE

PROPOSED

- PROPOSED CATCH BASIN
- PROPOSED STORM MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED CLEAN OUT
- PROPOSED EXTERIOR GREASE INTERCEPTOR
- E — PROPOSED ELECTRIC TRANSFORMER
- PROPOSED LIGHT POLE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED CURB
- PROPOSED CURB & GUTTER
- 000 — PROPOSED CONTOUR
- PROPOSED WHEEL STOP
- PROPOSED TRAFFIC SIGN
- PROPOSED PAINTED ADA SYMBOL
- PROPOSED DIRECTIONAL PAVEMENT MARKINGS
- EB — PROPOSED RELOCATED EXISTING LIGHT POLE

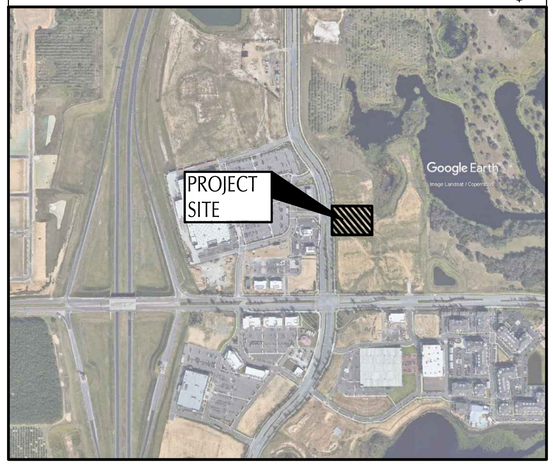
HAMLIN PD
HAMLIN EAST PROTON THERAPY CENTER PSP
TACO BELL - WINTER GARDEN DP

DP-21-09-291
PARCEL ID #21-23-27-2719-01-008

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FLORIDA
MARCH 1, 2022

SITE LOCATION MAP N.T.S.

NORTH



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.

INDEX OF DRAWINGS

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A PROPOSED TACO BELL ON A PREVIOUSLY VACANT LOT.

FLORIDA SPECIFICATION

THE STANDARD SPECIFICATIONS OF THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

LEGAL DESCRIPTION

A PORTION OF LOT 1, HAMLIN EAST, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 97, PAGES 64 THROUGH 67, INCLUSIVE, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWESTERLY MOST CORNER OF LOT 1, HAMLIN EAST, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 97, PAGES 64 THROUGH 67, INCLUSIVE, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, SAID POINT BEING A POINT ON THE EAST RIGHT-OF-WAY LINE OF HAMLIN GROVES TRAIL, AS RECORDED IN INSTRUMENT 20180136703, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, RUN THENCE THE FOLLOWING THREE (3) COURSES ALONG SAID EAST RIGHT-OF-WAY LINE: (1) N00°17'57"W A DISTANCE OF 391.65 FEET; (2) N01°30'39"W A DISTANCE OF 90.94 FEET FOR A POINT OF BEGINNING; (3) THENCE N01°30'39"W A DISTANCE OF 147.17 FEET; THENCE N89°42'03"E A DISTANCE OF 320.43 FEET; THENCE S00°17'57"E A DISTANCE OF 125.97 FEET; THENCE S89°42'03"W A DISTANCE OF 119.98 FEET; THENCE S00°17'57"E A DISTANCE OF 21.17 FEET; THENCE S89°42'03"W A DISTANCE OF 197.43 FEET TO THE EAST RIGHT-OF-WAY LINE OF SAID HAMLIN GROVES TRAIL AND THE POINT OF BEGINNING.

CONTAINS 44,378 SQUARE FEET OR 1.019 ACRES MORE OR LESS.

OWNER AND DEVELOPER

TACO BELL
1 GLEN BELL WAY
IRVINE, CA 92618

HAMLIN RETAIL PARTNERS EAST NEC, LLC
14422 SHORESIDE WAY #130
WINTER GARDEN, FL 34787

CONSULTANT

GPD GROUP, INC. - 30920
520 S. MAIN STREET
SUITE 2531
AKRON, OH 44311

ORANGE COUNTY UTILITIES SIGNAGE NOTE

ANY AND ALL SIGNAGE DEPICTED WITHIN THESE DRAWINGS ARE SCHEMATIC IN NATURE. ANY APPROVAL RECEIVED FOR THIS BUILDING PERMIT DOES NOT CONSTITUTE APPROVAL FOR THE CONSTRUCTION OF ANY SIGN/SIGN STRUCTURE COVERED WITHIN ORANGE COUNTY CODE SECTION 31.5. SIGNAGE MUST COMPLY WITH ORANGE COUNTY CODE SECTION 31.5 OR ANY APPLICABLE APPROVED SIGN PLAN. ALL PROPOSED SIGNAGE, INCLUDING SIGNAGE STRUCTURES, ARE REQUIRED TO SUBMIT A SEPARATE APPLICATION AND SHALL BE PROCESSED FOR REVIEW BY ZONING, BUILDING AND DEVELOPMENT ENGINEERING.

GPD GROUP, INC.®
LIC. # - 30920

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

	DATE	REMARKS
02	05/04/22	OCU COMMENTS
	05/05/22	ISSUED FOR BID

CONTRACT DATE: 08.19.21
BUILDING TYPE: END. 20
PLAN VERSION: MARCH 2021
BRAND DESIGNER:
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0

TITLE SHEET

TS-001

PLOT DATE: 8/19/2021 10:08:35 AM

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

DEMOLITION NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

20. 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.

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

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

GENERAL PLAN AND SURVEY NOTES

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

9. THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A CONTRACTUAL RELATIONSHIP BETWEEN GPD GROUP, INC. - 30920 AND THE CONTRACTOR / SUBCONTRACTOR / OR OTHER AFFILIATED PARTIES.

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. ANY SEQUENCING OR SUGGESTED NOTATIONS WHICH MAY APPEAR IN THE PLANS IS INTENDED TO ASSIST IN THE UNDERSTANDING OF PROJECT INTENT.

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 A.L.T.A./NSPS LAND TITLE SURVEY BY ACCURIGHT SURVEYS OF ORLANDO INC., LB 4475, DATED 6/10/21 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 PLANS ARE BASED ON GENERAL FIELD SURVEYS AND MATTERS OF RECORD AS PROVIDED BY THE CLIENT OR CLIENTS REPRESENTATIVE. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO BECOME FAMILIAR WITH THE SITE'S POSSIBLE BELOW GRADE FEATURES, INCLUDING BUT NOT LIMITED TO, ROOMS, VAULTS, UTILITIES, ETC. AND SHALL CONDUCT A WALK THROUGH WITH THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR REPAIR TO DAMAGE CAUSED BY THEIR WORK FORCE TO FACILITIES WHICH ARE NOT INTENDED TO BE DISTURBED .

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

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 CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

CONCRETE NOTES AND SPECIFICATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GRADING PLAN NOTES

1. A SOILS REPORT HAS BEEN PREPARED BY INTERTEK PSI, DATED MAY 24, 2021 AND SHALL BE CONSIDERED TO BE A PART OF THIS PLAN SET.

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

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

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

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

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

7. AT A MINIMUM ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 96% 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 SOILS 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.

SANITARY SEWER NOTES

1. SANITARY SEWER LATERAL INVERT AT BUILDING SHALL BE A MINIMUM OF 6' BELOW FINISH FLOOR.

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

3. THE CONTRACTOR SHALL HIRE A LOCAL PLUMBER LICENSED WITH THE LOCAL SANITARY JURISDICTION TO MAKE ALL CONNECTIONS FROM THE BUILDING TO THE EXISTING SEWER. CONTRACTOR SHALL SECURE A SANITARY SEWER CONNECTION PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTORS PRICE FOR SANITARY SEWER INSTALLATION SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE LOCAL SANITARY JURISDICTION TO PROVIDE A COMPLETE WORKING SERVICE. COORDINATE ALL WORK WITH ORANGE COUNTY UTILITIES @ 407-254-9900.

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

STORM SEWER NOTES

1. ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH INTERIOR PIPE (UNLESS OTHERWISE NOTED ON PLAN). HDPE PIPE SHALL CONFORM TO ASTM D 3350 AND JOINTS PER ASTM F477. STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE PVC, SDR 35, PER ASTM D 3034 AND JOINTS PER ASTM D 3212 (OR APPROVED EQUAL).

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION. COORDINATE ALL WORK WITH ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT @ 407-659-4800.

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

WATER NOTES

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

2. CONSTRUCTION AND MATERIALS PROVIDED BY THE WATER COMPANY:
   a. TAP MAIN.
   b. FURNISH AND INSTALL CURB STOP & BOX AND WATER METER.
   c. COORDINATE ALL WORK WITH THE ORANGE COUNTY UTILITIES - GLADYS MERCADAL @ 407-836-5515.

3. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
   a. FURNISH AND INSTALL COPPER SERVICE LINE FROM METER TO BUILDING.
   b. ALL TRENCHING AND BACKFILLING.

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

ELECTRICAL NOTES

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

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

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

4. CONSTRUCTION AND MATERIALS PROVIDED BY THE ELECTRIC COMPANY:
   a. FURNISH AND INSTALL PAD MOUNTED TRANSFORMER.
   b. MAKE APPROPRIATE PRIMARY AND SECONDARY CONNECTIONS AT TRANSFORMER.
   c. FURNISH AND INSTALL METER.
   d. RUN CONDUIT UP POLE.
   e. COORDINATE ALL WORK WITH DUKE ENERGY - RANDY BASHORE @ 610-334-1372.

5. CONSTRUCTION AND MATERIALS PROVIDED BY THE CONTRACTOR:
   a. FURNISH AND INSTALL 1-4" PVC SCHEDULE 40 DUCTS, INCLUDING ALL TRENCHING AND BACKFILLING FROM TRANSFORMER TO BUILDING.
   b. FURNISH AND INSTALL SECONDARY WIRE FROM THE BUILDING TO THE TRANSFORMER.
   c. FURNISH AND INSTALL METER BASE AND CT CABINET.
   d. INCLUDE ALL FEES REQUIRED BY ELECTRIC COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

TELEPHONE NOTES

1. CONSTRUCTION AND MATERIALS PROVIDED BY THE TELEPHONE COMPANY:
   a. COORDINATE ALL WORK WITH SPECTRUM - TIMOTHY ROSS @ 407-532-8148.
   b. PROVIDE AND INSTALL WIRING TO EXISTING SERVICE.

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

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

NATURAL GAS NOTES

1. CONSTRUCTION AND MATERIALS PROVIDED BY THE GAS COMPANY:
   a. TAP MAIN.
   b. FURNISH AND INSTALL SERVICE FROM TAP TO BUILDING.
   c. ALL TRENCHING AND BACKFILLING.
   d. FURNISH AND INSTALL METER.
   e. COORDINATE ALL WORK WITH LAKE APOPKA NATURAL GAS DISTRICT - MONICA MARLOW @ 407-656-2734 EXT. 104.

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

ORANGE COUNTY UTILITIES NOTE

CONTRACTOR SHALL REFERENCE SHEET C-507 FOR ORANGE COUNTY UTILITIES GENERAL NOTES AND DETAILS. 02

GPD GROUP, INC.®
LIC. # - 30920

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

	DATE	REMARKS
02	05/03/22	OCU COMMENTS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0

GENERAL NOTES

C-001

PLOT DATE: 8/19/2021 10:08:35 AM

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

12. IMPLEMENTATION OF EROSION AND SEDIMENT CONTROLS SHALL CONFORM TO STATE OF FLORIDA CONSTRUCTION GENERIC PERMIT AND THE CITY OF WINTER GARDEN CODIFIED ORDINANCES. IF A CONFLICT EXISTS BETWEEN THE TWO REGARDING EROSION AND SEDIMENT CONTROL IMPLEMENTATION, THE MORE RESTRICTIVE SHALL APPLY.

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

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

INSPECTION NOTES

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

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

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

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

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

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

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

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

SPILLS AND CONTAMINATION

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

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

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

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

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

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

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

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

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

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

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

TEMPORARY SEEDING

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

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

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

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

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

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

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

MULCH

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

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

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

DUST CONTROL NOTES

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

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

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

DEWATERING

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

PRACTICES FOR DEWATERING EXCAVATED AREAS

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

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

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

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

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

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

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

GPD GROUP, INC.®
LIC. # - 30920

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	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0

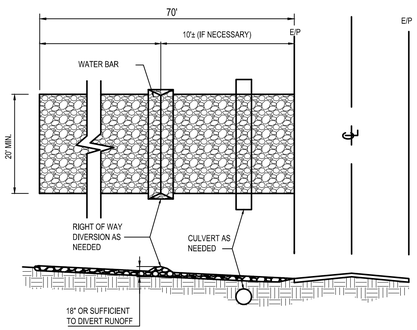
SWPP NOTES

C-010

PLOT DATE: 8/19/2021 10:08:35 AM

CONSTRUCTION ENTRANCE NOTES

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



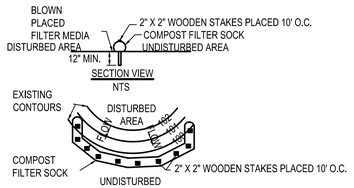
A1 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

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

COMPOST SHALL MEET THE FOLLOWING STANDARDS:

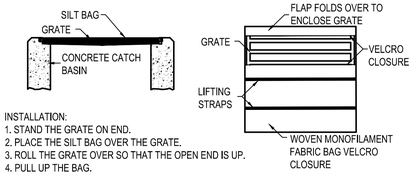
ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS MAXIMUM



ADAPTED FROM FILTREXX

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

A2 COMPOST FILTER SOCK
N.T.S.

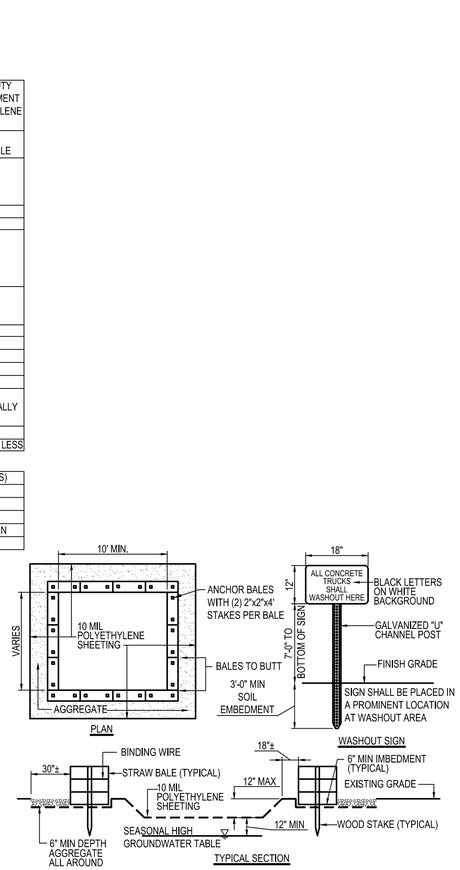


INSTALLATION:
1. STAND THE GRATE ON END.
2. PLACE THE SILT BAG OVER THE GRATE.
3. ROLL THE GRATE OVER SO THAT THE OPEN END IS UP.
4. PULL UP THE BAG.
5. TUCK THE FLAP IN.
6. PRESS THE VELCRO STRAPS TOGETHER.
7. BE SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP OR THE SILT BAG WILL NOT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

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

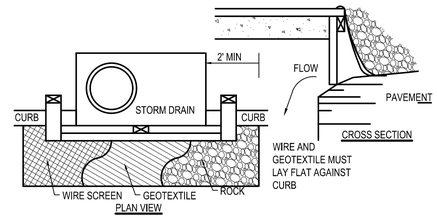
INLET INSPECTION:
TO INSPECT INLET, REMOVE SILT BAG WITH GRATE INSIDE, INSPECT CATCH BASIN AND REPLACE SILT BAG BACK INTO GRATE FRAME.
NOTE:
PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. THE SILT BAG MUST NEVER BE USED WHERE OVERFLOW MAY ENDANGER AN EXPOSED SLOPE.

C3 SILT BAG PROTECTION
N.T.S.



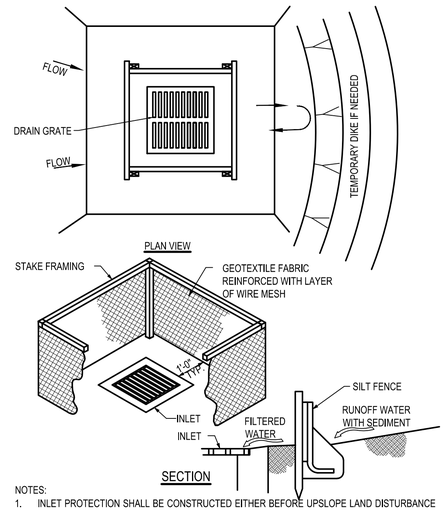
NOTES:
1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75%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

A3 CONCRETE WASHOUT AREA
N.T.S.



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

C4 CURB INLET PROTECTION
N.T.S.



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

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

A4 SILT BARRIER
N.T.S.

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

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

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

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

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

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

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

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

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

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

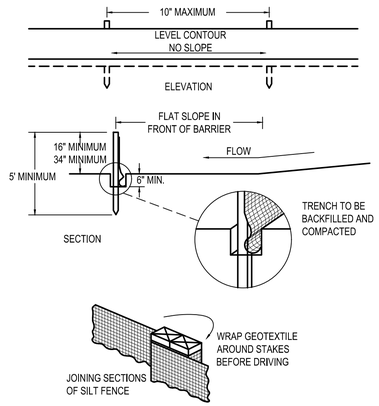
11) WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

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

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

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

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



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

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

A5 SILT FENCE
N.T.S.

GPD GROUP, INC.®
LIC. # - 30920
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE: 08.19.21
BUILDING TYPE: END. 20
PLAN VERSION: MARCH 2021
BRAND DESIGNER:
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

ENDEAVOR 2.0

SWPP DETAILS

C-011

PLOT DATE: 8/19/2021 10:08:35 AM

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

Sunshine 811

BENCHMARKS:
BASIS OF BEARING NAVD88.

BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'

SWPP KEYNOTES

- TS TEMPORARY SEEDING
- PS PERMANENT SEEDING
- CW CONCRETE WASHOUT AREA
- FS COMPOST FILTER SOCK
- CE CONSTRUCTION ENTRANCE
- IP INLET PROTECTION

LEGEND

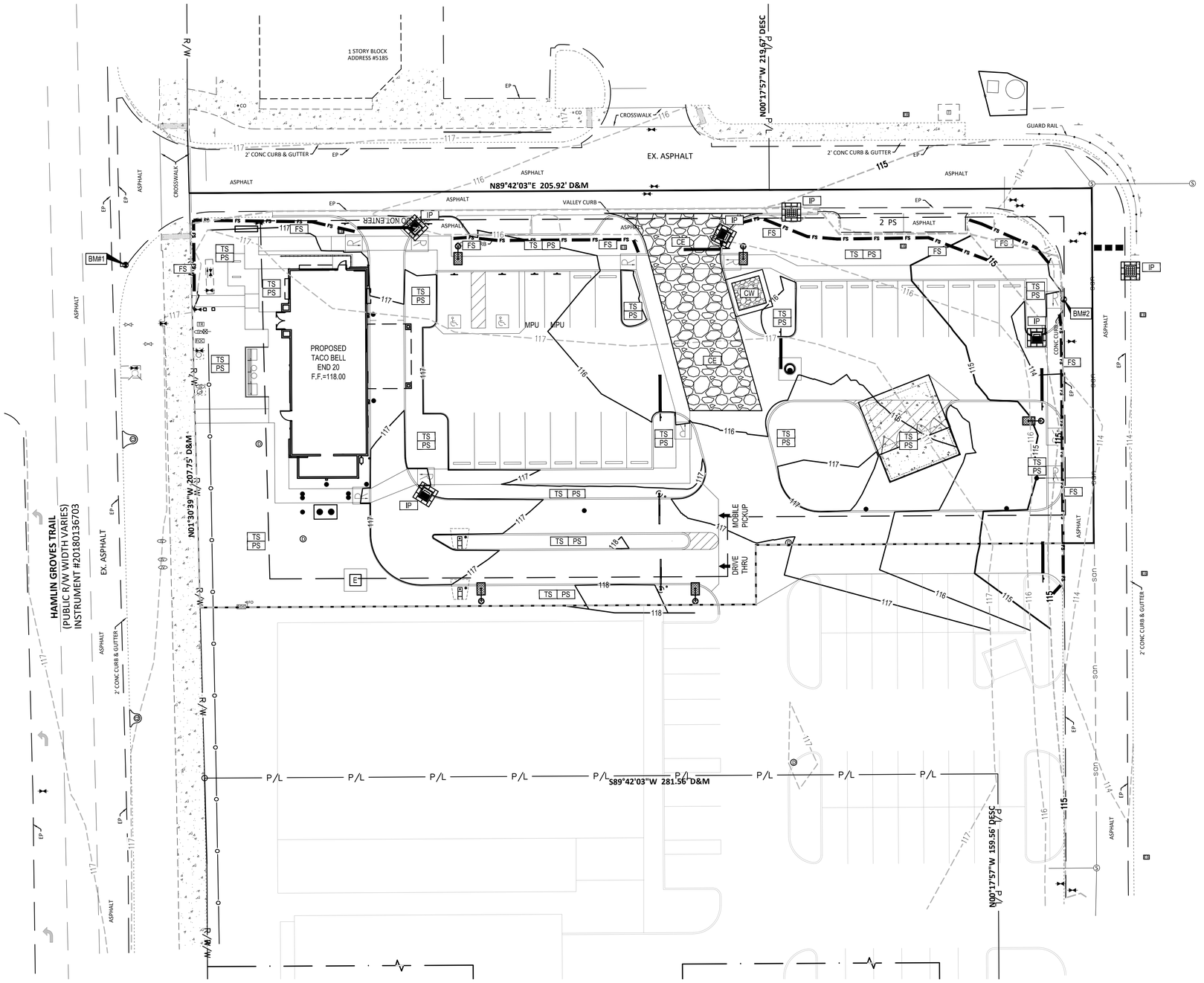
(SEE SHEET TS-001 FOR GENERAL LEGEND)

- PROPOSED SILT BARRIER REFER TO SWPP DETAILS
- PROPOSED COMPOST FILTER SOCK REFER TO SWPP DETAILS
- LIMITS OF DISTURBANCE
- PROPOSED CONSTRUCTION ENTRANCE REFER TO SWPP DETAILS
- PROPOSED CONCRETE WASHOUT FACILITY REFER TO SWPP DETAILS

N

0 20 10 40

1"=20'
Horizontal Scale in Feet



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

THIS SITE WAS AN UNDEVELOPED FIELD.
THE PROPOSED WORK INCLUDES A NEW TACO BELL.

PROJECT COMPLETION STATISTICS

PARCEL SIZE :	1.02 ACRES
TOTAL DISTURBED AREA:	0.91 ACRES
EXISTING LAND USE FOR THE SITE IS VACANT LAND.	
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS AREA:	0.13 ACRES
ESTIMATED PRE-CONSTRUCTION IMPERVIOUS PERCENT:	12.9%
PRE-CONSTRUCTION RUN-OFF COEFFICIENT:	0.51
PROPOSED LAND USE WILL BE A TACO BELL.	
ESTIMATED POST-CONSTRUCTION IMPERVIOUS AREA:	0.75 ACRES
ESTIMATED POST-CONSTRUCTION IMPERVIOUS PERCENT:	74.3%
POST-CONSTRUCTION RUN-OFF COEFFICIENT:	0.82

PROJECT LOCATION:
LATITUDE 28.476221° LONGITUDE -81.625886°

EXISTING SITE SOIL TYPES:
5: CANDLER FINE SAND, 5 TO 12 PERCENT SLOPES .
REFERENCE: USDA NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

WETLAND INFORMATION:
THERE ARE NO WETLANDS ON THIS SITE.

FIRST AND SUBSEQUENT RECEIVING STREAM:
INITIAL RECEIVING WATER IS LAKE HARTLEY AND THE SUBSEQUENT RECEIVING WATER IS LAKE HANCOCK.

POST CONSTRUCTION WQv / BMP DESCRIPTION
WATER QUALITY IS PROVIDED BY PREVIOUSLY CONSTRUCTED STORMWATER MANAGEMENT FACILITY SERVICING COMMON DEVELOPMENT AREA.

OWNER CONTACT:
STEVE PULCHEON
SENIOR MANAGER OF CONSTRUCTION
1 GLEN BELL WAY
IRVINE, CA 92618

ANTICIPATED TIMING:
CONSTRUCTION BEGIN: OCTOBER, 2021
CONSTRUCTION COMPLETE: JANUARY, 2022

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

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

GPD GROUP, INC.®
LIC. # - 30920

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

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
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DRAWN BY.:	EA
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TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

ENDEAVOR 2.0

SWPP
PLAN

C-012

PLOT DATE: 8/19/2021 10:08:35 AM

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BENCHMARKS:
BASIS OF BEARING NAVD88.

BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'

LEGEND
(SEE SHEET TS-001 FOR GENERAL LEGEND)

- EXISTING ASPHALT TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- LIMITS OF DISTURBANCE
- ##L.F.± — DENOTES LIMITS OF SAWCUT
- (#) — DEMOLITION KEYNOTE
- (A / #) — APPURTENANCES

N

0 20 10 40
1"=20'
Horizontal Scale in Feet

GENERAL SHEET NOTES

1. PRIOR TO DEMOLITION OF UTILITIES, CONTRACTOR SHALL FIELD VERIFY THAT NO UPSTREAM OR DOWNSTREAM UTILITIES TO REMAIN ARE DEPENDENT OF SAID UTILITY TO BE REMOVED. CONTRACTOR SHALL CONTACT CONSTRUCTION MANAGER IF EXISTING UTILITIES TO REMAIN ARE FOUND DEPENDENT OF SAID REMOVALS.
2. CONTRACTOR SHALL ENSURE REMOVAL OF LIGHT POLE / SIGN / ETC. ELECTRIC CONDUIT HAS NO AFFECT ON REMAINING OVERALL DEVELOPMENT LIGHTING / ELECTRICAL SERVICES TO REMAIN.
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ELECTRIC UTILITY COMPANY. CONTRACTOR SHALL ENSURE THERE IS NO SERVICE INTERRUPTION TO NEIGHBORING PROPERTIES. CONTRACTOR SHALL PLACE PULL BOXES AS REQUIRED FOR TRANSFORMER REMOVALS / SPLICING / ETC. ALL WORK SHALL BE PER THE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
4. EXISTING UTILITY LOCATIONS SHOWN HEREIN FROM UTILITY PROVIDER RECORD PLANS AND SURVEY DRAWINGS. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING FEATURES ASSOCIATED TO THE PROPOSED IMPROVEMENTS.

PLAN KEYNOTES (#)

1. EXISTING CURB TO BE REMOVED.
2. EXISTING LIGHT POLE TO BE REMOVED AND SALVAGED FOR RE-INSTALLATION. SEE SHEET C-111 FOR DETAILS.
3. EXISTING CURB TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
4. EXISTING PAVEMENT TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
5. EXISTING WALK TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. REMOVE AND REPLACE ANY DAMAGED WALK AREAS AT CONTRACTOR'S EXPENSE.
6. EXISTING UTILITIES TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
7. EXISTING STORM MANHOLE TO BE ADJUSTED TO GRADE. SEE SHEET C-111 FOR DETAILS.
8. EXISTING CONCRETE GUTTER TO BE REMOVED. CONTRACTOR SHALL SAWCUT AT JOINT BETWEEN ASPHALT AND CONCRETE. THEN CAREFULLY PULL CONCRETE GUTTER BACK AWAY FROM ASPHALT AS TO NOT DISTURB ASPHALT PAVEMENT.
9. EXISTING CATCH BASIN CASTING TO BE REMOVED AND REPLACED WITH CURB INLET CASTING. SEE SHEET C-111 FOR DETAILS.
10. EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.

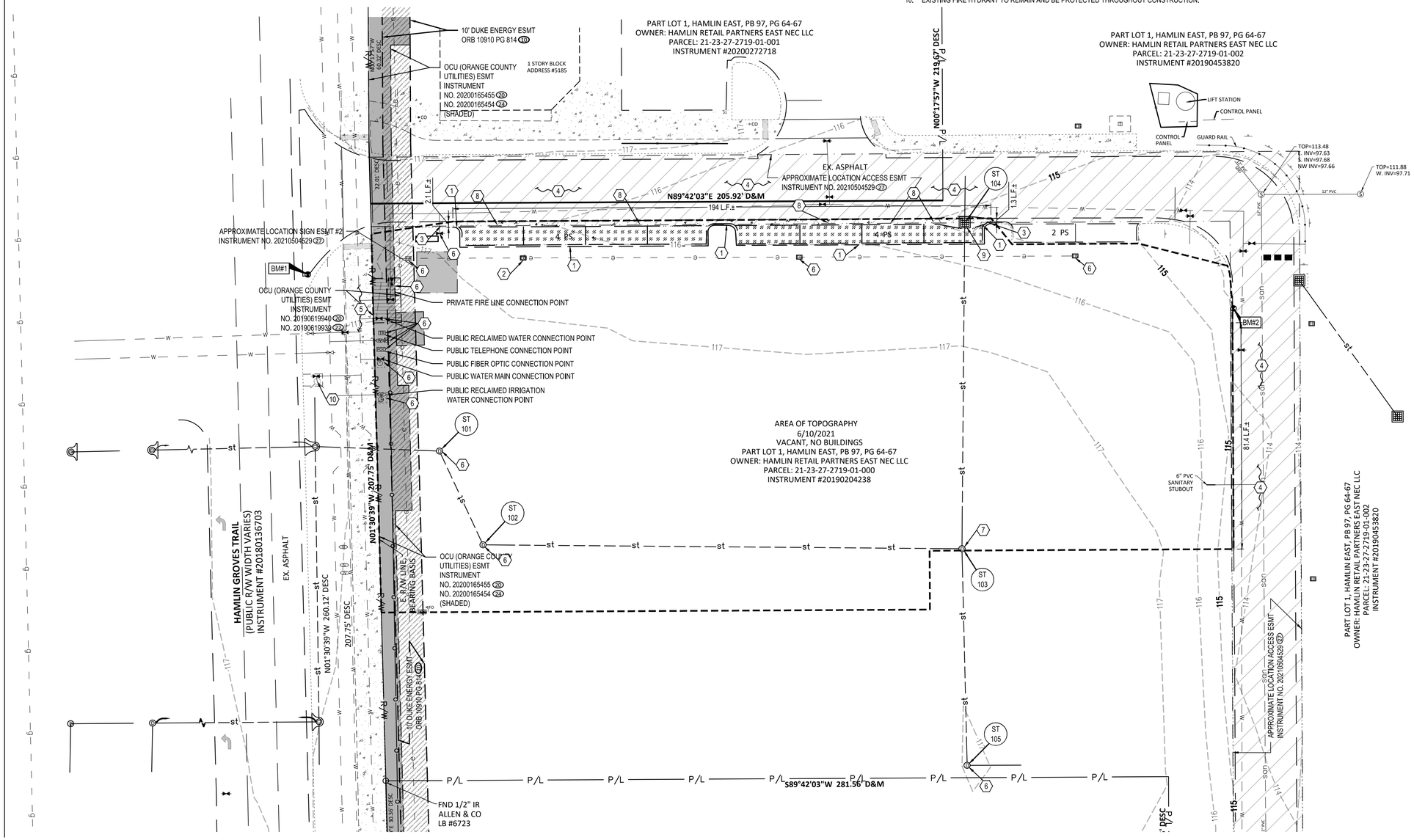
DEMOLITION NOTE:

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

UTILITY EASEMENT NOTE:

FURTHER INFORMATION REGARDING UTILITY EASEMENTS CAN BE FOUND ON THE SURVEY.

EXISTING STRUCTURES	
STRCT. ID	STRUCTURE DETAILS
ST 101	EXISTING STORM MANHOLE RIM=117.67 INV. 24" (SE)=106.71
ST 102	EXISTING STORM MANHOLE RIM=117.54 INV. 24" (NW)=106.88 INV. 24" (E)=106.88
ST 103	EXISTING STORM MANHOLE **PROP. RIM=117.04** *EX. RIM=117.42* INV. 24" (W)=107.32 INV. 24" (N)=107.37 INV. 24" (S)=107.33
ST 104	EXISTING FDOT TYPE 'S' INLET GRATE=114.98 INV. 24" (S)=107.58 INV. 24" (N)=107.58
ST 105	EXISTING STORM MANHOLE RIM=116.98 INV. 24" (N)=107.70 INV. 24" (E)=107.73



GPD GROUP, INC.®
LIC. # - 30920

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

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

ENDEAVOR 2.0

DEMOLITION PLAN

C-101

PLOT DATE: 8/19/2021 10:08:35 AM

Sunshine 811

BENCHMARKS:
BASIS OF BEARING NAVD88.

BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'

FIRE MARSHALL NOTES:
1. CURRENT EDITION OF THE CODE FFPC (NFPA 1 AND 101 7TH EDITION).
2. DURING CONSTRUCTION, WHEN COMBUSTIBLES ARE BROUGHT ON TO THE SITE, ACCESS ROADS AND A SUITABLE TEMPORARY OR PERMANENT SUPPLY OF WATER ACCEPTABLE TO THE FIRE DEPARTMENT SHALL BE PROVIDED AND MAINTAINED, NFPA 1 (7TH EDITION).

SPECIAL DEVELOPMENT NOTE:
1. ALL SIGNAGE SHALL COMPLY WITH CHA. 31.5
2. PER ORANGE COUNTY CODE SEC. 38-1390.56 (E) (3) (I) - TOWN CENTER LAND USE DISTRICTS DEVELOPMENT STANDARDS, MAXIMUM BUILDING HEIGHT IS TO BE 50'.
3. PER ORANGE COUNTY CODE SEC. 38-1390 (E) (3) (F) - TOWN CENTER LAND USE DISTRICTS DEVELOPMENT STANDARDS, MAXIMUM LOT COVERAGE IS RESERVED.

SPECIAL DEVELOPMENT COMPLIANCE NOTES:
1. APPROVAL OF THIS DEVELOPMENT PLAN CONSTITUTES A LOT SPLIT APPROVAL.
2. POLE SIGNS AND BILLBOARDS SHALL BE PROHIBITED. ALL OTHER SIGNAGE SHALL COMPLY WITH APPROVED MASTER SIGN PLAN.
3. IT IS BELIEVE THAT THESE PLANS ARE IN COMPLIANCE WITH COMMERCIAL DESIGN STANDARDS SET FORTH IN ARTICLE XIII OF CHAPTER 9 OF THE ORANGE COUNTY CODE.
4. ALL LIGHTING SHALL COMPLY WITH ARTICLE XVI OF CHAPTER 9 OF THE ORANGE COUNTY CODE.

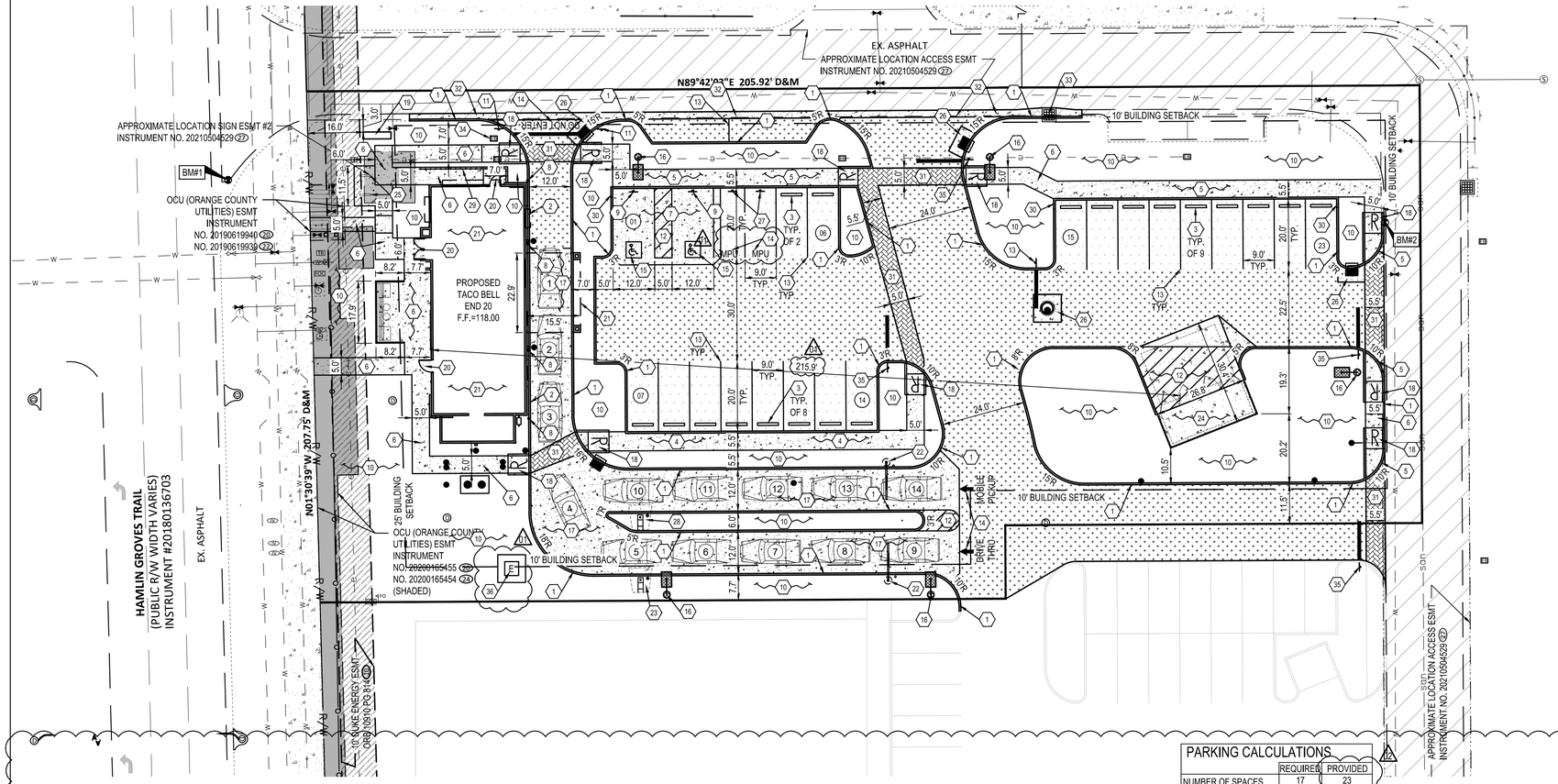
UTILITY EASEMENT NOTE:
1. FURTHER INFORMATION REGARDING UTILITY EASEMENTS CAN BE FOUND ON THE SURVEY.

LEGEND
(SEE SHEET TS-001 FOR GENERAL LEGEND)

- PROPOSED LIGHT DUTY ASPHALT (SEE SHEET C-502).
- PROPOSED HEAVY DUTY ASPHALT (SEE SHEET C-502).
- PROPOSED CONCRETE (SEE SHEET C-502).
- PROPOSED CROSSWALK
- (#) CONSTRUCTION KEYNOTE
- (00) PROPOSED PARKING SPACE COUNT
- (00) PROPOSED DRIVE THRU STACK CAR AND NUMBER
- R PROPOSED ADA ACCESSIBLE RAMP PER ADA SPECIFICATIONS (SEE SHEET C-502).
- (E) PROPOSED UTILITY STRUCTURES. REFER TO UTILITY PLAN FOR MORE INFORMATION.

N

0 20 10 40
1"=20'
Horizontal Scale in Feet



GENERAL NOTE:

PRIOR TO THE START OF CONSTRUCTION OR ORDERING OF MATERIALS, GENERAL CONTRACTOR SHALL VERIFY THAT THE PROPOSED LOCATION OF THE LIGHT POLE FOUNDATIONS WILL NOT DAMAGE ANY EXISTING UTILITIES. IF LIGHT POLE FOUNDATIONS ARE NOT ABLE TO BE INSTALLED WITHOUT DAMAGE TO EXISTING UTILITY INFRASTRUCTURE, THE GENERAL CONTRACTOR SHALL CONTACT THE PROJECT COORDINATOR IMMEDIATELY.

CONSTRUCTION PHASING

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.

2. NO PHASING WITH THE ADJACENT DEVELOPMENT IS REQUIRED AT THIS TIME, COMPLETE BUILD OUT.

PARKING CALCULATIONS

	REQUIRED	PROVIDED
NUMBER OF SPACES	17	23

PARKING REQUIREMENTS
1 SPACE FOR EACH 4 SEATS, PLUS 1 SPACE FOR EACH 75 S.F. OF FLOOR AREA
THEREFORE: (32 / 4) + (675 / 75) = 17 SPACES REQUIRED.

PARKING CALCULATIONS NOTE:
PARKING CALCULATIONS BASED UPON SEATING CAPACITY OF INDOOR AND OUTDOOR SEATING AREAS.

BUILDING SETBACKS

	REQUIRED	PROVIDED
FRONT: HAMLIN	25'	34'
REAR: WEST	10'	247'
SIDE: NORTH	10'	18'
SIDE: SOUTH	10'	46'

PARKING SETBACKS

	REQUIRED	PROVIDED
FRONT: HAMLIN	7'	18'
REAR: WEST	7'	7'
SIDE: NORTH	7'	7'
SIDE: SOUTH	0'	0'

LANDSCAPE SETBACKS

	REQUIRED	PROVIDED
FRONT: HAMLIN	7'	18'
REAR: WEST	7'	7'
SIDE: NORTH	7'	7'
SIDE: SOUTH	0'	0'

BIKE SPACES CALCULATIONS

	REQUIRED	PROVIDED
NUMBER OF SPACES	4	4

PARKING REQUIREMENTS
2 BIKE SPACES FOR EACH DEVELOPMENT WITH 10 PARKING STALLS, PLUS 1 BIKE SPACE FOR EACH 10 PARKING STALLS OVER 10.
THEREFORE: 23 - 10 = 13; 13 / 10 = 1.3 ~ 2;
2 + 2 = 4 BIKE SPACES REQUIRED

IMPERVIOUS SURFACE RATIO (ISR)

ISR = IMPERVIOUS AREA (BUILDING AREA + IMPERVIOUS AREA) / TOTAL SITE AREA
THEREFORE: (2,178 + 28,443) / (44,378) = 0.69

ISR = 0.69

PLAN KEYNOTES (#)

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

1. PROPOSED P.C.C. CURB, SEE SHEET C-501.
2. PROPOSED CURB AT DRIVE THRU, SEE SHEET C-501.
3. PROPOSED P.C.C. WHEEL STOP, SEE SHEET C-501.
4. PROPOSED P.C.C. CURBED WALK, SEE SHEET C-501.
5. PROPOSED P.C.C. FLUSH CURB WALK, SEE SHEET C-501.
6. PROPOSED P.C.C. WALK, SEE SHEET C-501.
7. PROPOSED LIGHT DUTY P.C.C. PAVEMENT W/ W.W.F. 6" x 6"-W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER GRADED AGGREGATE BASE. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT. SEE SHEET C-502 FOR DETAILS AND THICKNESSES.
8. PROPOSED DETERRENT BOLLARD IN CURB, SEE SHEET C-501.
9. PROPOSED ADA PARKING SIGN, SEE SHEET C-501.
10. PROPOSED LANDSCAPING AREA. SOD ALL DISTURBED AREAS EXCEPT WHERE PLANTING BEDS ARE INDICATED. SEE LANDSCAPE PLANS.
11. PROPOSED 'DO NOT ENTER & STOP' SIGN PER FDOT STANDARDS AND SHEET C-501, AND ASSOCIATED STOP BAR, SEE SHEET C-506.
12. PROPOSED PAINTED TRANSVERSE STRIPING, SEE SHEET C-506.
13. PROPOSED PAINTED 4" WIDE SOLID STRIPE - WHITE ON ASPHALT, YELLOW ON CONCRETE, BLUE FOR ADA.
14. PROPOSED DIRECTIONAL PAVEMENT MARKINGS - WHITE ON ASPHALT, YELLOW ON CONCRETE, BLUE FOR ADA - SEE SHEET C-506.
15. PROPOSED PAINTED INTERNATIONAL ADA SYMBOL PER ADA SPECIFICATIONS AND SHEET C-506.
16. PROPOSED LIGHT POLE AND FOUNDATION. SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR SPECIFICATIONS.
17. PROPOSED HEAVY DUTY P.C.C. PAVEMENT W/ W.W.F. 6" x 6"-W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER GRADED AGGREGATE BASE. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT. SEE SHEET C-502 FOR DETAILS AND THICKNESSES.
18. PROPOSED ADA ACCESSIBLE RAMP PER ADA SPECIFICATIONS AND SHEET C-502.
19. APPROXIMATE LOCATION OF PROPOSED MONUMENT SIGN, BY DEVELOPER.
20. PROPOSED FROST SLAB AT DOOR. SEE THIS SHEET FOR SIZE AND STRUCTURAL DRAWINGS FOR DETAIL.
21. PROPOSED BUILDING/CANOPY. SEE ARCHITECTURAL DRAWINGS.
22. PROPOSED EVOLUTION PORTAL CLEARANCE BAR, SEE SHEET C-503.
23. PROPOSED SPEAKER POST AND CANOPY PER SIGN SUPPLIER SPECIFICATIONS AND SHEET C-503. 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.
24. PROPOSED DUMPSTER ENCLOSURE ON P.C.C. PAD. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
25. PROPOSED BIKE RACK, SEE SHEET C-501.
26. PROPOSED CONCRETE COLLAR, SEE SHEET C-502.
27. 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.
28. SIGN SUPPLIER SHALL PROVIDE SHALLOW FOUNDATION DESIGN FOR PROPOSED SPEAKER POST AND CANOPY PER SIGN SUPPLIER SPECIFICATIONS AND SHEET C-503. 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. CONTRACTOR SHALL FIELD LOCATE AND VERIFY DEPTH AND LOCATION OF EXISTING STORM SEWER AS TO NOT DISTURB EXISTING STORM SEWER.
29. PROPOSED GUARDRAIL, SEE SHEET C-502.
30. PROPOSED 3' CURB TAPER, SEE SHEET C-501.
31. PROPOSED CROSSWALK. ALL CROSSWALKS SHALL BE PROPOSED PINE HALL BRICK - ENGLISH EDGE FULL RANGE 4X8 CLAY PAVERS. PAVER PATTERN TO MATCH ADJACENT CROSSWALKS WITHIN THE HAMLIN GROVES DEVELOPMENT.
32. PROPOSED CURB & GUTTER/GUTTER PAN, CROSS SECTION AND PROFILE SHALL MATCH EXISTING FLOW LINE CHARACTERISTICS, ALSO SEE SHEET C-505. CONTRACTOR SHALL MATCH EXISTING CURB & GUTTER IN KIND.
33. EXISTING CATCH BASIN CASTING TO BE REPLACED PER FDOT CURB INLET. CONTRACTOR SHALL MATCH EXISTING CURB INLET CASTING ACROSS ROADWAY.
34. PROPOSED RELOCATED EXISTING LIGHT POLE. CONTRACTOR SHALL PROVIDE PULLBOX AND EXTENSION OF LIGHTING CIRCUIT TO NEW LIGHT POLE LOCATION. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
35. PROPOSED STOP SIGN, SEE SHEET C-501 AND ASSOCIATED PAINTED STOP BAR, SEE SHEET C-506.
36. PROPOSED TRANSFORMER, SEE SHEET C-131 FOR MORE INFORMATION.

PROJECT DATA TABLE

PROPOSED USE	DRIVE THRU RESTAURANT
TOTAL SQUARE FOOTAGE (SF)	44,378
BUILDING COVERAGE (SF)	2,178 = 0.05 AC. = 4.9% OF SITE
FLOOR AREA RATIO	0.05
OPEN SPACE - CATEGORY A (SF)	11,272 = 0.26 AC. = 25.5% OF SITE
IMPERVIOUS (SF)	30,928 = 0.71 AC. = 69.6% OF SITE
BUILDING HEIGHT (MAX.)	23'-0"
BUILDING STORIES	1
EXISTING SOIL TYPES	CANDLER FINE SAND, 5 TO 12 PERCENT SLOPES
WATER SERVICE PROVIDER	ORANGE COUNTY UTILITIES
DP - PSP - 17-08-253	HAMLIN PD/HAMLIN EAST PROTON THERAPY CENTER
CAD AREA DETERMINATION	CAD-17-09-127
CAD AREA IMPACT #	CAI-17-10-025
EXISTING ZONING	PLANNED DEVELOPMENT (PD)
PROPOSED ZONING	PLANNED DEVELOPMENT (PD)
FUTURE LAND USE MAP (FLUM)	VILLAGE (V)

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	DATE	REMARKS
01	04/29/22	NTP COMMENTS
02	05/04/22	OCU COMMENTS
	05/05/22	ISSUED FOR BID

CONTRACT DATE: 08.19.21
BUILDING TYPE: END. 20
PLAN VERSION: MARCH 2021
BRAND DESIGNER:
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

ENDEAVOR 2.0

SITE PLAN

C-111

PLOT DATE: 8/19/2021 10:08:35 AM

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

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BENCHMARKS:
BASIS OF BEARING NAVD88.

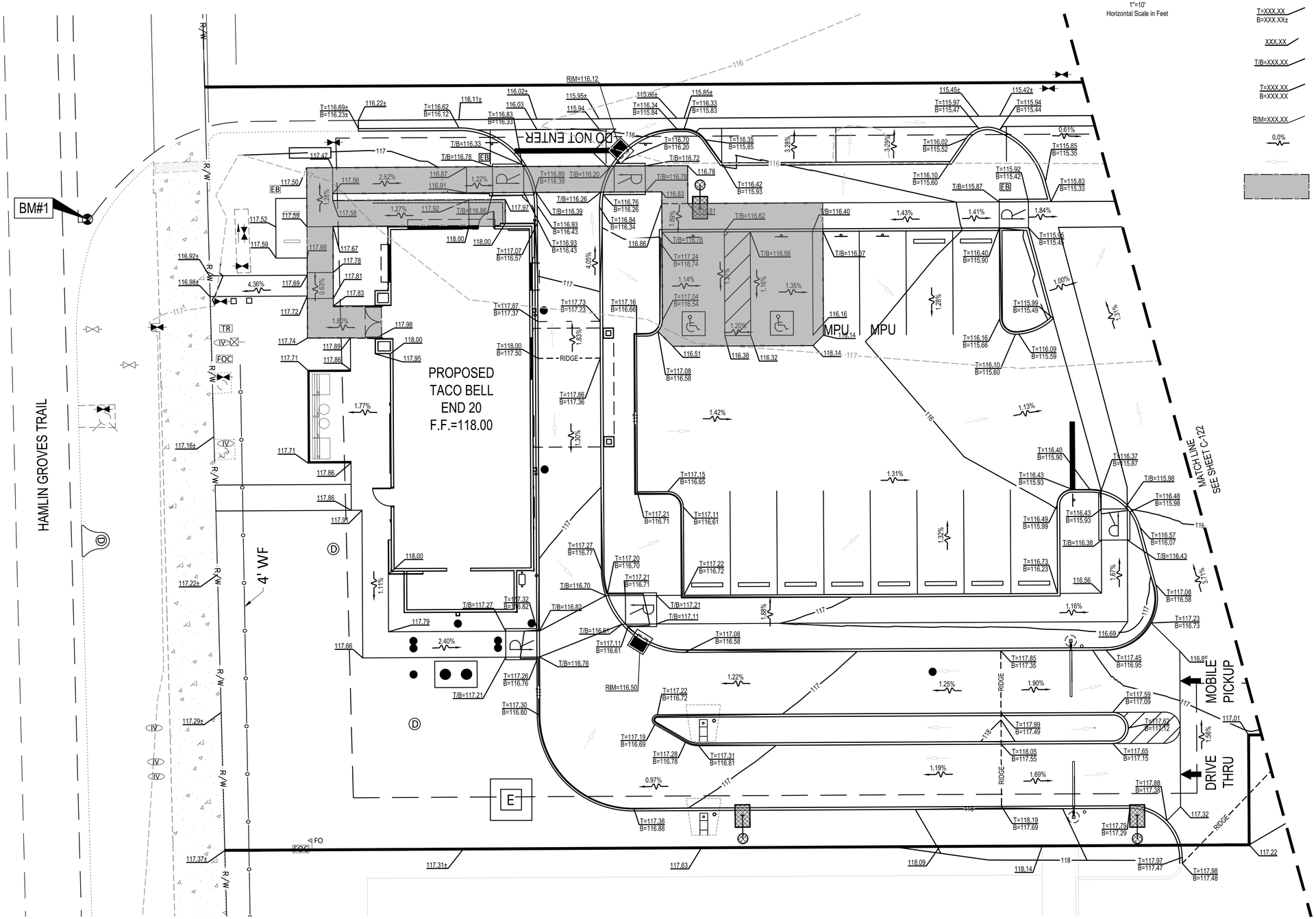
BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'

N

0 10 5 20

1"=10'
Horizontal Scale in Feet



LEGEND
(SEE SHEET TS-001 FOR GENERAL LEGEND)

000	PROPOSED CONTOUR
XXX.XX±	EXISTING SPOT ELEVATION/ MATCH EXISTING GRADE
T/B=XXX.XX±	EXISTING TOP/BOTTOM OF CURB ELEVATION/MATCH EXISTING GRADE
T=XXX.XX± B=XXX.XX±	EXISTING TOP OF CURB/MATCH EXISTING ELEVATION BOTTOM OF CURB/MATCH EXISTING ELEVATION
T=XXX.XX B=XXX.XX±	TOP OF CURB ELEVATION BOTTOM OF CURB/MATCH EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
T/B=XXX.XX	TOP/BOTTOM OF CURB ELEVATION/FINISHED PAVEMENT ELEVATION
T=XXX.XX B=XXX.XX	TOP OF CURB ELEVATION BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
RIM=XXX.XX	RIM ELEVATION OF PROPOSED STRUCTURE
0.0%	PROPOSED DRAINAGE SLOPE & DIRECTION
	EMERGENCY OVERLAND FLOW ROUTE
	LIMITS OF ADA ROUTING

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	DATE	REMARKS
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SITE NUMBER:	314877
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JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

ENDEAVOR 2.0

GRADING PLAN

C-121

PLOT DATE: 8/19/2021 10:08:35 AM

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

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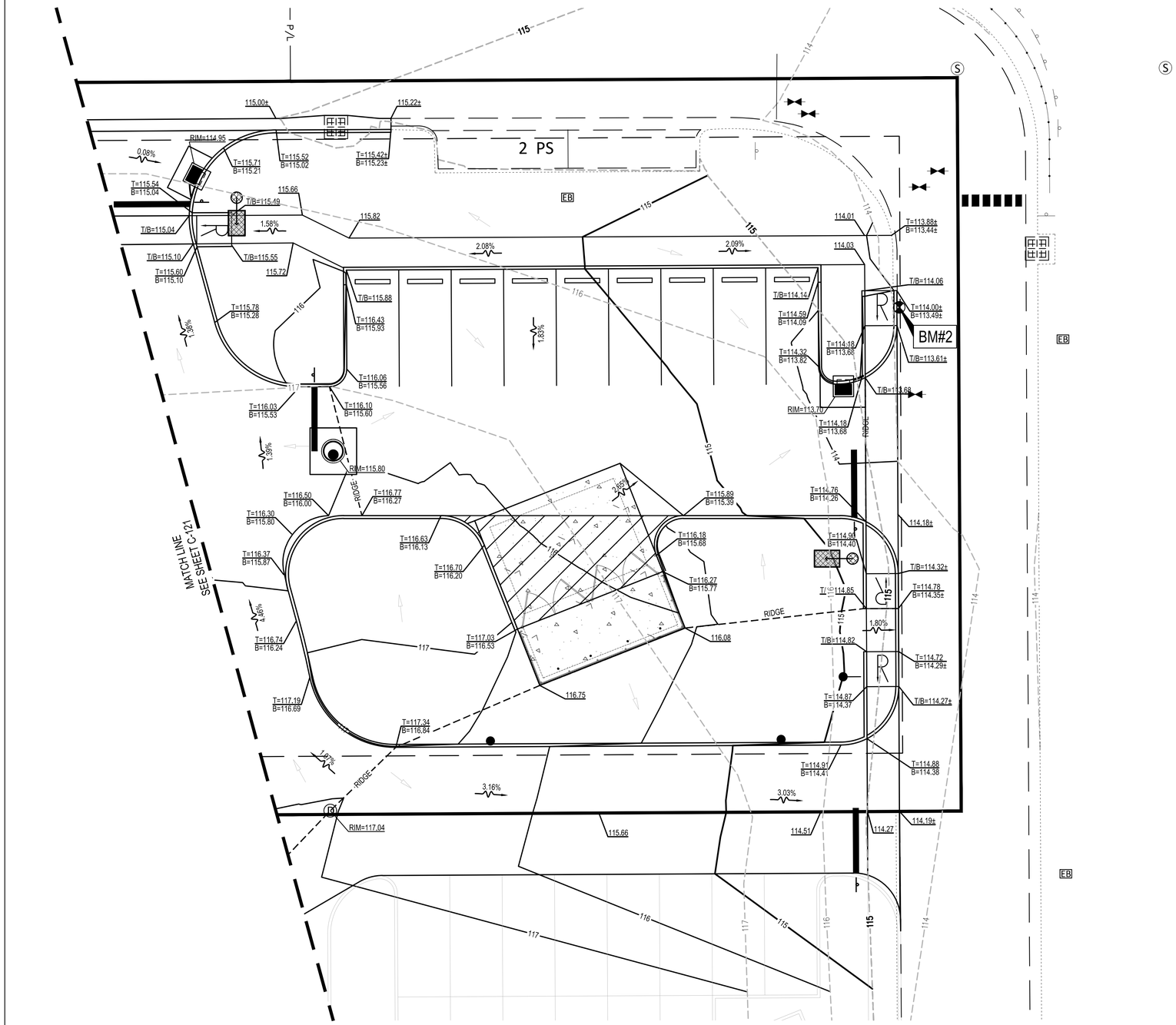
BENCHMARKS:
BASIS OF BEARING NAVD88.

BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'



N

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

LEGEND
(SEE SHEET C-001 FOR GENERAL LEGEND)

000	PROPOSED CONTOUR
XXX.XX±	EXISTING SPOT ELEVATION/ MATCH EXISTING GRADE
T/B=XXX.XX±	EXISTING TOP/BOTTOM OF CURB ELEVATION/MATCH EXISTING GRADE
T=XXX.XX± B=XXX.XX±	EXISTING TOP OF CURB/MATCH EXISTING ELEVATION BOTTOM OF CURB/MATCH EXISTING ELEVATION
T=XXX.XX B=XXX.XX±	TOP OF CURB ELEVATION BOTTOM OF CURB/MATCH EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION @ FINISHED GROUND ELEVATION
T/B=XXX.XX	TOP/BOTTOM OF CURB ELEVATION/FINISHED PAVEMENT ELEVATION
T=XXX.XX B=XXX.XX	TOP OF CURB ELEVATION BOTTOM OF CURB/FINISHED PAVEMENT ELEVATION
RIM=XXX.XX	RIM ELEVATION OF PROPOSED STRUCTURE
0.0%	PROPOSED DRAINAGE SLOPE & DIRECTION
	EMERGENCY OVERLAND FLOW ROUTE

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	DATE	REMARKS
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ENDEAVOR 2.0

GRADING PLAN

C-122

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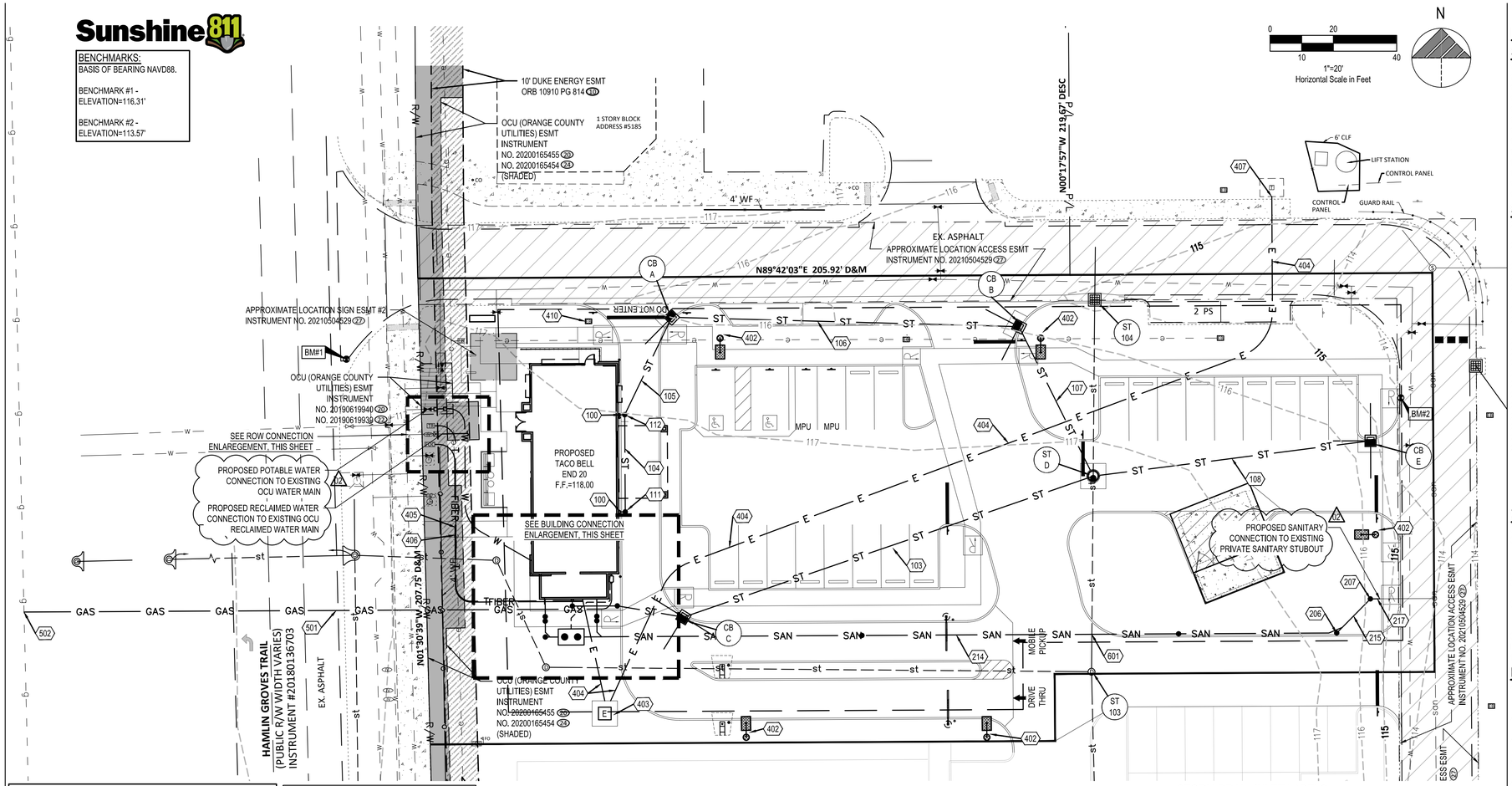
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

Sunshine811

BENCHMARKS:
BASIS OF BEARING NAVD88.

BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'



PROPOSED STRUCTURES

STRCT. ID	STRUCTURE DETAILS
CB A	PROPOSED STORM CURB INLET, FDOT TYPE 9 (SEE DETAIL SHEET C-506) GRATE=116.12 INV. 12" (E)=112.12 INV. 6" (SW)=112.41 *4" FINGER DRAINS (SW), SEE DETAIL SHEET C-502
CB B	PROPOSED STORM CURB INLET, FDOT TYPE 9 (SEE DETAIL SHEET C-506) GRATE=114.95 INV. 12" (SE&W)=110.95 *4" FINGER DRAINS (NW&SW), SEE DETAIL SHEET C-502
CB C	PROPOSED STORM CURB INLET, FDOT TYPE 9 (SEE DETAIL SHEET C-506) GRATE=116.50 INV. 12" (NE)=112.50 INV. 6" (W)=113.00 *4" FINGER DRAINS (NW, SW&SE), SEE DETAIL SHEET C-502
ST D	PROPOSED 48" DIA. MIN. STORM MANHOLE (SEE DETAIL SHEET C-503) RIM=115.80 INV. 12" (E)=108.82 INV. 12" (NW)=110.42 INV. 12" (SW)=111.13 EX. INV. 24" (N&S)=107.48
CB E	PROPOSED STORM CURB INLET, FDOT TYPE 9 (SEE DETAIL SHEET C-506) GRATE=113.70 INV. 12" (W)=109.70 *4" FINGER DRAINS (N, W&S), SEE DETAIL SHEET C-502
SAN 300	PROPOSED 1,000 GALLON EXTERIOR GREASE INTERCEPTOR (SEE DETAIL SHEET C-502) RIM=117.41 INV. 6" PVC (W)=111.86 INV. 6" PVC (E)=111.61

* FINGER DRAIN INVERT SHALL MATCH THE BOTTOM OF THE PAVEMENT AGGREGATE BASE

EXISTING STRUCTURES

STRCT. ID	STRUCTURE DETAILS
ST 101	EXISTING STORM MANHOLE RIM=117.67 INV. 24" (SE)=106.71
ST 102	EXISTING STORM MANHOLE RIM=117.54 INV. 24" (NW)=106.88 INV. 24" (E)=106.88
ST 103	EXISTING STORM MANHOLE **PROP. RIM=117.04** *EX. RIM=117.42* INV. 24" (W)=107.32 INV. 24" (N)=107.37 INV. 24" (S)=107.33
ST 104	EXISTING FDOT TYPE 'S' INLET GRATE=114.98 INV. 24" (S)=107.58 INV. 24" (N)=107.58
ST 105	EXISTING STORM MANHOLE RIM=116.98 INV. 24" (N)=107.70 INV. 24" (E)=107.73

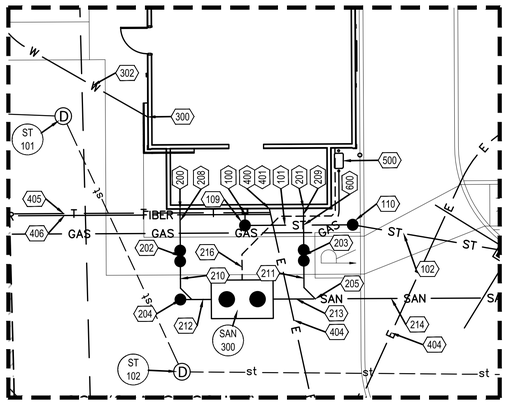
LEGEND

(SEE SHEET TS-001 FOR GENERAL LEGEND)

- ST — PROPOSED STORM SEWER (12" AND SMALLER)
- SAN — PROPOSED SANITARY SEWER
- W — PROPOSED WATER SERVICE
- GAS — PROPOSED GAS SERVICE
- E — PROPOSED UNDERGROUND ELECTRIC SERVICE
- T — PROPOSED UNDERGROUND TELEPHONE SERVICE
- FIBER — PROPOSED UNDERGROUND FIBER OPTIC SERVICE
- A # — APPURTENANCES
- # — UTILITY CONSTRUCTION KEYNOTE

GENERAL SHEET NOTES

1. SEE SHEET C-001 FOR ADDITIONAL UTILITY NOTES.
2. ALL CATCH BASINS AND MANHOLES SHALL HAVE A 2'-0" SUMP MINIMUM.
3. ALL CASTINGS WITHIN PAVEMENT AREAS SHALL BE H20 LOADING HEAVY DUTY.
4. CONTRACTOR SHALL FIELD VERIFY LOCATION, DEPTH, AND CONDITION OF EXISTING UTILITY TIE-IN POINTS AND ALERT THE CONSTRUCTION MANAGER IF THE PROPOSED DESIGN CANNOT BE ACHIEVED.



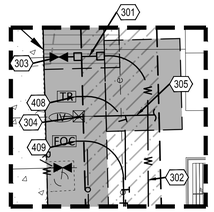
BUILDING CONNECTION ENLARGEMENT
1"=10'

STORM DRAIN INLET LABELS:

ALL STORM DRAIN INLETS CONSTRUCTED AS PART OF NEW DEVELOPMENT PROJECTS IN ORANGE COUNTY SHALL HAVE METAL MEDALLION INLET MARKERS INSTALLED. TEXT ON THE MARKER SHALL BE EVENLY SPACED AMD READ "NO DUMPING, ONLY RAIN IN THE DRAIN." MARKERS MUST BE COMMERCIAL GRADE STAINLESS STEEL, ALUMINUM, BRASS OR BRONZE AND EITHER STAMPED FROM SHEET METAL OR CAST. METAL MARKER COLOR MUST BE NON-REFLECTIVE BLUE OR GREEN. AQUATIC CREATURE OR SYMBOL SHOWN ON MARKER SHALL BE CONSISTENT THROUGHOUT THE SUBDIVISION. MARKERS MUST BE AFFIXED TO A CLEAN, PREPARED SURFACE WITH ADHESIVES, FASTENERS, OR HEAT AS RECOMMENDED BY THE MANUFACTURER. MARKERS SHALL BE ALIGNED WITH THE CENTER OF DRAINAGE INLETS AT THE TOP OF THE CURB. LETTERING MUST BE BETWEEN 0.4 - 0.5 INCHES AND THE TOTAL DIAMETER OF THE MARKER BETWEEN 3.75 - 4.25 INCHES.

UTILITY EASEMENT NOTE:

FURTHER INFORMATION REGARDING UTILITY EASEMENTS CAN BE FOUND ON THE SURVEY.



ROW CONNECTION ENLARGEMENT
1"=10'

ORANGE COUNTY UTILITIES NOTES:

1. ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.
2. ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED AT ALL POINTS OF CONNECTION TO, AND AT ALL AREAS OF CONFLICT WITH OCU MAINS.
3. MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL PROPOSED WATER, WASTEWATER, AND RECLAIMED WATER LINES. PLEASE REFER TO THE FOLLOWING SECTIONS FROM THE 2021 OCU MANUAL: SECTION 2210, PART 4, A - WATER MAINS; SECTION 2310, PART 5, B - GRAVITY MAINS; SECTION 2311, PART 4, A - FORCE MAINS; SECTION 2510, PART 6, A - RECLAIMED WATER MAINS.
4. ALL WATER METERS (POTABLE AND RECLAIMED) AND SERVICE CONNECTIONS 2 INCHES AND UNDER TO BE INSTALLED BY ORANGE COUNTY UTILITIES. BACKFLOW PREVENTORS SHALL BE INSTALLED BY THE CONTRACTOR.
5. POTABLE AND RECLAIMED WATER METERS ONE AND A HALF INCH AND LARGER WILL BE INSTALLED ABOVER GROUND AND MUST BE LOCATED WITHIN AN EASEMENT ABUTTING THE RIGHT-OF-WAY. THE EASEMENT MUST BE A MINIMUM OF 10 FEET BY 15 FEET (AS SHOWN IN PLAN VIEW).

UTILITIES ASSET ATTRIBUTE DATA TABLE

ID NUMBER	PLAN SHEET #	EASTING	NORTHING	ELEVATION	UTILITY TYPE	VOLUME (GAL.)	COMMENTS
301	C-131				WATER	-	WATER METER
304	C131				RECLAIMED WATER	-	RECLAIMED WATER METER
202	C-131				SANITARY	-	CLEANOUT
203	C-131				SANITARY	-	CLEANOUT
204	C-131				SANITARY	-	CLEANOUT
SAN 300	C-131				SANITARY	1000	GREASE INTERCEPTOR
206	C-131				SANITARY	-	CLEANOUT
207	C-131				SANITARY	-	CLEANOUT

PLAN KEYNOTES (#)

STORM

100. PROPOSED DOWNSPOUT COLLECTOR LINE @ 2.00% MINIMUM. 5 L.F. TOTAL.
101. PROPOSED 14 L.F. OF 6" (PVC) STORM SEWER @ 2.00%.
102. PROPOSED 21 L.F. OF 6" (PVC) STORM SEWER @ 4.29%.
103. PROPOSED 137 L.F. OF 12" (HDPE) STORM SEWER @ 1.00%.
104. PROPOSED 31 L.F. OF 6" (PVC) STORM SEWER @ 2.00%.
105. PROPOSED 34 L.F. OF 6" (PVC) STORM SEWER @ 2.00%.
106. PROPOSED 110 L.F. OF 12" (HDPE) STORM SEWER @ 1.06%.
107. PROPOSED 53 L.F. OF 12" (HDPE) STORM SEWER @ 1.00%.
108. PROPOSED 88 L.F. OF 12" (HDPE) STORM SEWER @ 1.00%.
109. PROPOSED STORM CLEANOUT, SEE SHEET C-502. 6" INV=114.18.
110. PROPOSED STORM CLEANOUT, SEE SHEET C-502. 6" INV=113.90.
111. PROPOSED STORM CLEANOUT, SEE SHEET C-502. 6" INV=113.71.
112. PROPOSED STORM CLEANOUT, SEE SHEET C-502. 6" INV=113.09.

SANITARY

200. PROPOSED SANITARY CONNECTION - GREASE LINE. CONTRACTOR SHALL PROVIDE FITTINGS AS MAY BE REQUIRED TO 6" OUTSIDE OF BUILDING. 6" INV.=112.00
201. PROPOSED SANITARY CONNECTION - WASTE LINE. CONTRACTOR SHALL PROVIDE FITTINGS AS MAY BE REQUIRED TO 6" OUTSIDE OF BUILDING. 6" INV.=112.00
202. PROPOSED TWO-WAY SANITARY CLEANOUT. REFER TO PLUMBING PLANS. 6" INV.=111.95
203. PROPOSED TWO-WAY SANITARY CLEANOUT. REFER TO PLUMBING PLANS. 6" INV.=111.95
204. PROPOSED SANITARY CLEANOUT, SEE SHEET C-502, AND WYE CONNECTION, SEE SHEET C-502. 6" INV.=111.90
205. PROPOSED SANITARY WYE CONNECTION, SEE SHEET C-502. 6" INV.=111.55
206. PROPOSED SANITARY CLEANOUT, SEE SHEET C-502, AND WYE CONNECTION, SEE SHEET C-502. 6" INV.=109.23
207. PROPOSED SANITARY CLEANOUT, SEE SHEET C-502. 6" INV.=109.08
208. PROPOSED 5 L.F. OF 6" (PVC) SANITARY SEWER @ 1.00%.
209. PROPOSED 5 L.F. OF 6" (PVC) SANITARY SEWER @ 1.00%.
210. PROPOSED 5 L.F. OF 6" (PVC) SANITARY SEWER @ 1.00%.
211. PROPOSED 5 L.F. OF 6" (PVC) SANITARY SEWER @ 7.00%.
212. PROPOSED 4 L.F. OF 6" (PVC) SANITARY SEWER @ 1.00%.
213. PROPOSED 6 L.F. OF 6" (PVC) SANITARY SEWER @ 1.00%.
214. PROPOSED 232 L.F. OF 6" (PVC) PRIVATE SANITARY SEWER @ 1.00%.
215. PROPOSED 15 L.F. OF 6" (PVC) SANITARY SEWER @ 1.00%.
216. PROPOSED 3" PVC SANITARY VENT. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.
217. PROPOSED RISER AND NECESSARY FITTINGS AND REPLACEMENT PIPE AS NEEDED TO CONNECT TO EXISTING PRIVATE SANITARY SEWER SERVICE LATERAL. PROPOSED INVERT = 109.08. EXISTING INVERT = 98.94±. CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION, AND CONDITION OF EXISTING LATERAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY PROPOSED PRIVATE SANITARY SEWER DESIGN CAN BE ACHIEVED, NOTIFY THE CONSTRUCTION MANAGER IF SEWER DESIGN CANNOT BE ACHIEVED.

WATER

300. PROPOSED BUILDING WATER CONNECTION. COORDINATE WITH PLUMBING PLANS.
301. PROPOSED PUBLIC WATER METER AND PUBLIC BACKFLOW PREVENTOR LOCATED WITHIN PROPOSED PUBLIC OCU EASEMENT PER ORANGE COUNTY UTILITIES STANDARDS AND SPECIFICATIONS.
302. PROPOSED 66 L.F. 1-1/2" COPPER TYPE "K" WATER SERVICE LINE.
303. PROPOSED CONNECTION TO EXISTING WATER MAIN. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE UTILITY COMPANY.
304. PROPOSED CONNECTION TO EXISTING PUBLIC RECLAIMED WATER STUBOUT AND METER. CONTRACTOR SHALL PROVIDE PROPOSED PUBLIC BACKFLOW PREVENTION DEVICE PER ORANGE COUNTY UTILITIES STANDARDS AND SPECIFICATIONS.
305. PRIVATE RECLAIMED WATER SERVICE LINE (IRRIGATION).

NOTES:
1. ESTIMATED FIRE FLOW IS 1500 GPM.

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, TELECOMMUNICATIONS, AND FIBER OPTIC BUILDING CONNECTION. SEE BUILDING DRAWINGS FOR EXACT LOCATION.
402. PROPOSED LIGHT POLE. SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR SPECIFICATIONS.
403. PROPOSED PAD MOUNTED ELECTRICAL TRANSFORMER PER ELECTRICAL COMPANY SPECIFICATIONS. G.C. TO VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER.
404. PROPOSED 292 L.F. ELECTRIC SERVICE LINE PER THE UTILITY COMPANY STANDARDS AND SPECIFICATIONS. COORDINATE ALL WORK WITH THE UTILITY COMPANY. CONTRACTOR SHALL REPAIR AND RESTORE ALL DISTURBED AREAS IN ACCORDANCE WITH LOCAL AND OWNER REQUIREMENTS.
405. PROPOSED 98 L.F. TELECOMMUNICATION SERVICE LINE PER THE UTILITY COMPANY STANDARDS AND SPECIFICATIONS. COORDINATE ALL WORK WITH THE UTILITY COMPANY.
406. PROPOSED 92 L.F. FIBER OPTIC SERVICE LINE PER THE UTILITY COMPANY STANDARDS AND SPECIFICATIONS. COORDINATE ALL WORK WITH THE UTILITY COMPANY.
407. PROPOSED CONNECTION TO EXISTING ELECTRIC SERVICE. COORDINATE ALL WORK WITH THE UTILITY COMPANY.
408. PROPOSED CONNECTION TO EXISTING TELECOMMUNICATION SERVICE. COORDINATE ALL WORK WITH THE UTILITY COMPANY.
409. PROPOSED CONNECTION TO EXISTING FIBER OPTIC SERVICE. COORDINATE ALL WORK WITH THE UTILITY COMPANY.
410. PROPOSED RELOCATED EXISTING LIGHT POLE AND ASSOCIATED. CONTRACTOR SHALL PROVIDE PULLBOX AND EXTENSION OF LIGHTING CIRCUIT TO NEW LIGHT POLE LOCATION. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

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 192 L.F. GAS SERVICE CONNECTION TO BE COORDINATED WITH THE GAS COMPANY. CONTRACTOR SHALL REPAIR AND RESTORE ALL DISTURBED AREAS IN ACCORDANCE WITH LOCAL AND OWNER REQUIREMENTS.
502. PROPOSED CONNECTION TO EXISTING GAS MAIN PER GAS COMPANY STANDARDS AND SPECIFICATIONS. COORDINATE ALL WORK WITH WITH THE UTILITY COMPANY.

UTILITY CROSSINGS

GENERAL UTILITY CROSSING NOTES:
1. CONTRACTOR SHALL COORDINATE ALL CROSSINGS/RELOCATIONS WITH THE RESPECTIVE UTILITY COMPANIES.
2. EXISTING AND PROPOSED PRESSURIZED (WATER & GAS) AND SECONDARY (ELECTRIC & COMMUNICATIONS) UTILITIES SHALL DEFLECT TO MAINTAIN 18" CLEAR AT SANITARY OR STORM SEWER CROSSINGS WHEN CONFLICTS OCCUR.
3. WHEN A PROPOSED PRESSURIZED/SECONDARY UTILITY IS IN CROSSING CONFLICT WITH AN EXISTING PRESSURIZED/SECONDARY UTILITY, THE PROPOSED UTILITY SHALL DEFLECT TO OBTAIN MINIMUM CLEARANCE PER UTILITY PROVIDERS REQUIREMENT.
4. CONTRACTOR SHALL FIELD LOCATE EXISTING PRESSURIZED/SECONDARY UTILITIES AT PROPOSED CROSSINGS.
5. FOR CLEARANCE BETWEEN PIPES OF LESS THAN 18", THE CONTRACTOR SHALL PROVIDE CONCRETE ENCASEMENT PER SHEET C-502.

(600) PROP. 8" SAN. INV. = 111.98 PROP. 12" STORM INV. = 114.03
(601) PROP. 6" SAN. INV. = 110.00 EX. 24" STORM INV. = 107.39

UTILITY PROVIDER INFORMATION

WATER SERVICE AND SANITARY SEWER SERVICE PROVIDER:
ORANGE COUNTY UTILITIES - (407) 254-9900
9150 CURRY FORD RD.
SECOND FLOOR
ORLANDO, FL 32825

GPD GROUP, INC.®
LIC. # - 30920
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
02	05/04/22	OCU COMMENTS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0

UTILITY PLAN

C-131

PLOT DATE: 8/19/2021 10:08:35 AM

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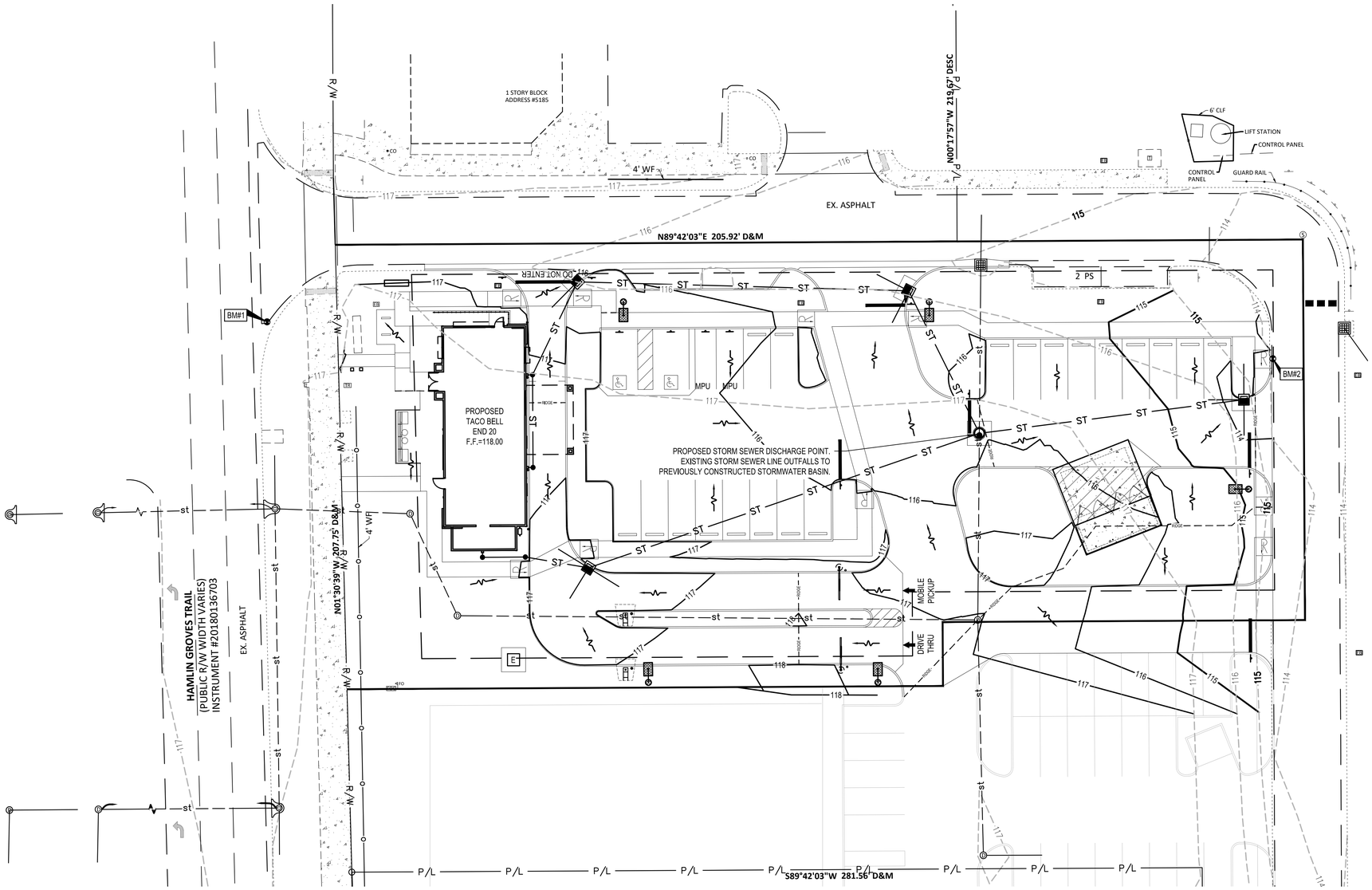

0 20
10 40
1"=20'
Horizontal Scale in Feet

N

LEGEND
(SEE SHEET TS-001 FOR GENERAL LEGEND)

PROPOSED DRAINAGE DIRECTION
000 PROPOSED CONTOUR
000 EXISTING CONTOUR

Sunshine811

BENCHMARKS:
BASIS OF BEARING NAVD88.

BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'

GPD GROUP, INC.®
LIC. # - 30920

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

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	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
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PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

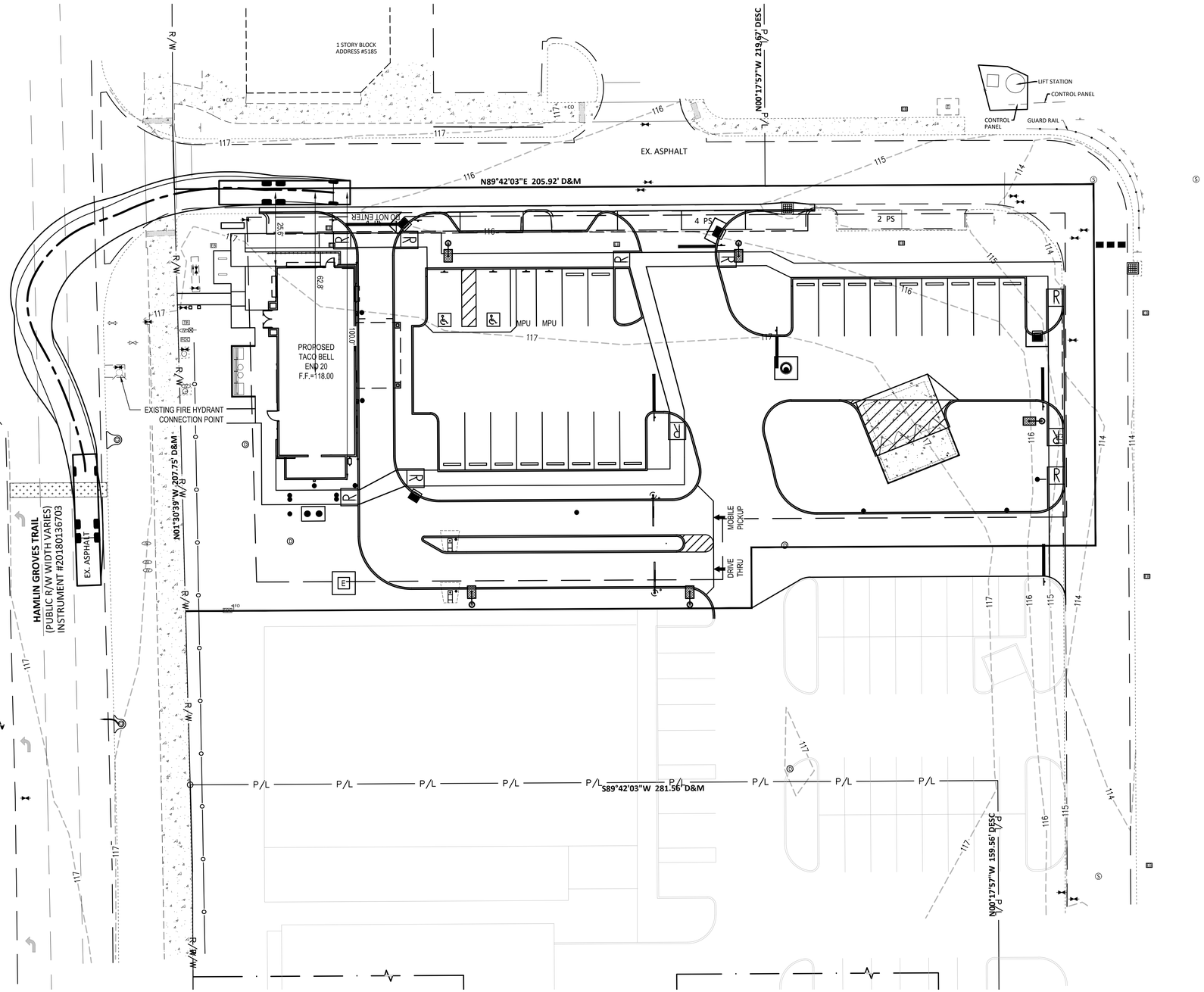
ENDEAVOR 2.0

DRAINAGE PLAN

C-132

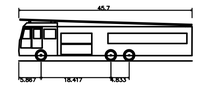
PLOT DATE: 8/19/2021 10:08:35 AM

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



N

0 20
10 40
1"=20'
Horizontal Scale in Feet



Winter Garden Florida Fire Truck	
Overall Length	45.700ft
Overall Width	8.333ft
Overall Body Height	11.000ft
Min Body Ground Clearance	1.383ft
Track Width	8.333ft
Lock-to-lock time	6.000s
Max Wheel Angle	44.20°

Sunshine 811

BENCHMARKS:
BASIS OF BEARING NAVD88.

BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'

ANTICIPATED REQUIRED FIRE FLOW: 1500 GPM FOR 2 HOURS

GPD GROUP, INC.®
LIC. # - 30920

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

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

ENDEAVOR 2.0

FIRE TRUCK ACCESS PLAN

C-141

PLOT DATE: 8/19/2021 10:08:35 AM

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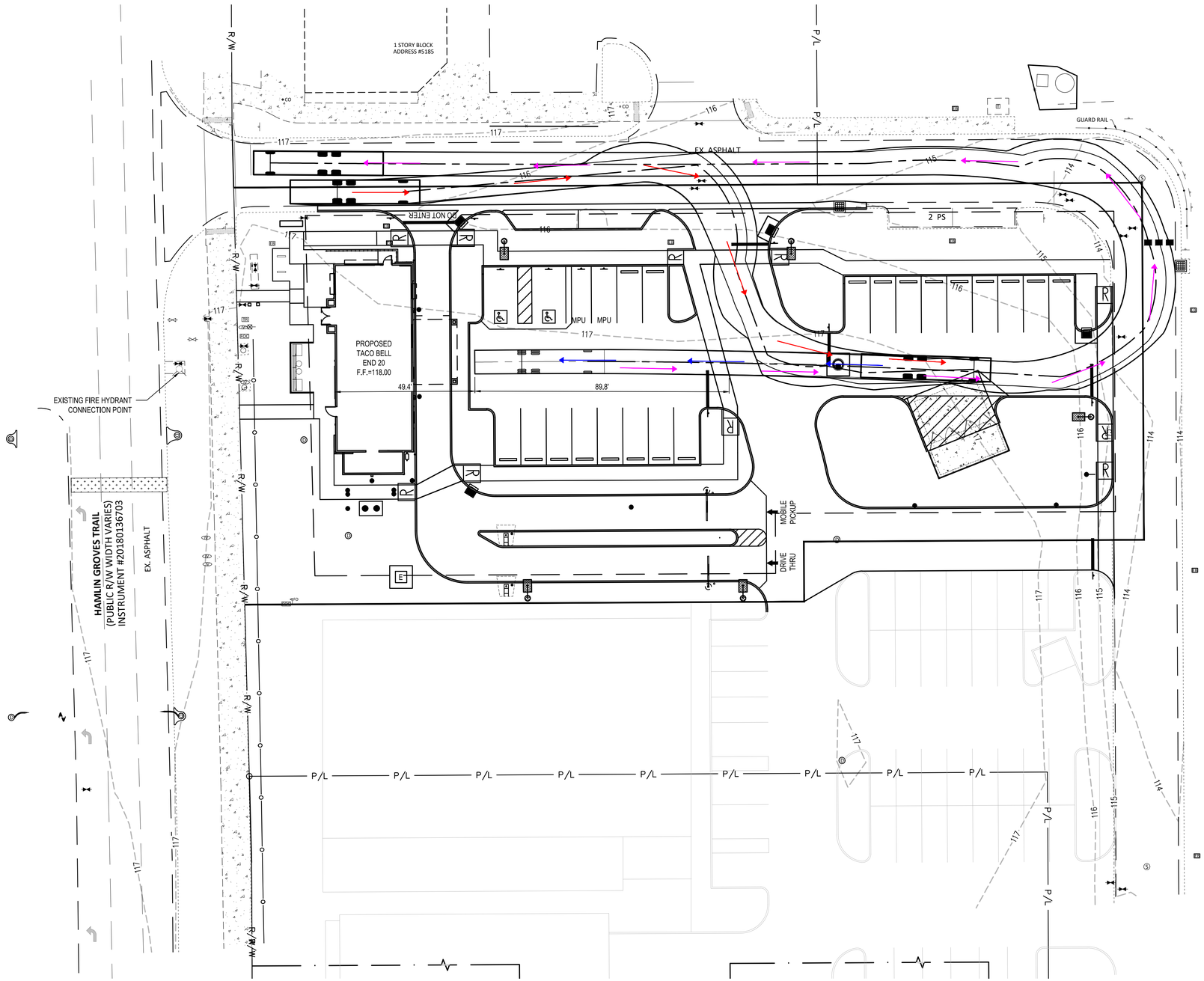
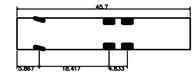




Winter Garden Florida Fire Truck	
Overall Length	45.700ft
Overall Width	8.333ft
Overall Body Height	11.000ft
Min Body Ground Clearance	1.383ft
Track Width	6.333ft
Lock-to-lock time	6.0os
Max Wheel Angle	44.20°

Sunshine 811

BENCHMARKS:
BASIS OF BEARING NAVD88.

BENCHMARK #1 -
ELEVATION=116.31'

BENCHMARK #2 -
ELEVATION=113.57'

ANTICIPATED REQUIRED FIRE FLOW: 1500 GPM FOR 2 HOURS

LEGEND
(SEE SHEET TS-001 FOR GENERAL LEGEND)

- MANEUVER 1 - ENTERING SITE
- MANEUVER 2 - BACKING UP TO BUILDING
- MANEUVER 3 - LEAVING SITE

GPD GROUP, INC.®
LIC. # - 30920

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

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

TACO BELL

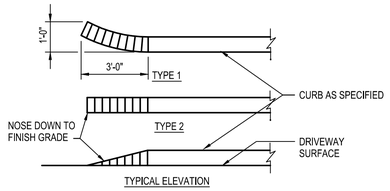
ENDEAVOR 2.0

FIRE TRUCK SITE ACCESS PLAN

C-142

PLOT DATE: 8/19/2021 10:08:35 AM

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



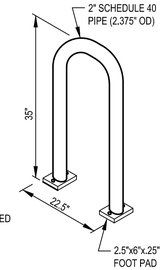
D1 CURB TAPER
N.T.S.

PRODUCT: DERO HOOP RACK HEAVY DUTY
DERO BIKE RACKS (OR APPROVED EQUAL)
WWW.DERO.COM
1-800-298-4915

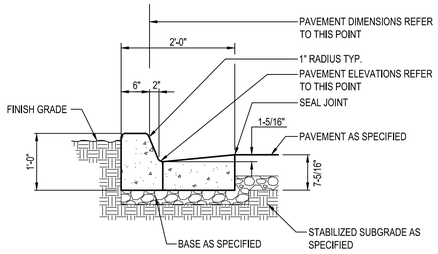
CAPACITY: 2 BIKES

MATERIALS: 2" SCHEDULE 40 PIPE (2.375" OD)

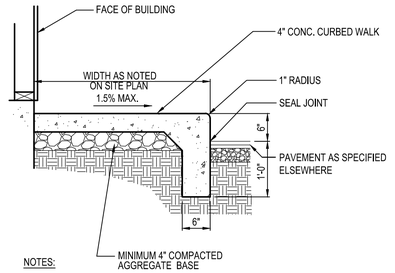
CONTRACTOR SHALL COORDINATE FINISH AND PREFERRED INSTALLATION METHOD WITH CONSTRUCTION MANAGER.



D2 BIKE RACK DETAIL
N.T.S.

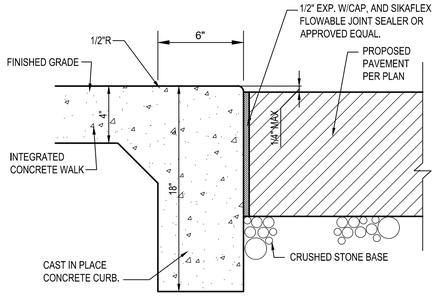


D3 P.C.C. CURB AND GUTTER
N.T.S.



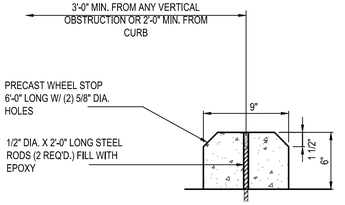
NOTES:
1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.

D4 P.C.C CURBED WALK
N.T.S.



NOTES:
1. REFER TO SITE PLAN NOTES ON SHEET C-001 FOR CONCRETE SPECIFICATION.
2. SIDEWALK WIDTH AS SHOWN ON SHEET C-111.

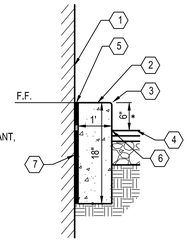
D5 P.C.C. FLUSH CURB WALK
N.T.S.



NOTE:
1. SEE SITE PLAN FOR LOCATION AND QUANTITY OF WHEELSTOPS.
2. WHEN APPLICABLE IN CONCRETE PAVEMENTS, WHEEL STOPS SHALL BE ANCHORED TO CONCRETE WITH HDI+ 1/4" DROP-IN ANCHORS, 1" EMBEDMENT W/ 1/4" THREADED ROD.

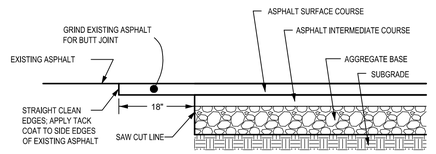
C1 P.C.C. WHEELSTOP
N.T.S.

KEYED NOTES
1. FACE OF BUILDING
2. CONCRETE CURB
3. 1" RADIUS
4. PAVEMENT AS SPECIFIED
5. 1/2" PRE MOLDED EXP. JNT. CUT BACK AND PROVIDE SEALANT, TYPICAL, AT ALL JOINTS WITH FILLER.
6. SEAL JOINT
7. 15LB BOND BREAK MATERIAL BELOW EXP. JNT. MATERIAL

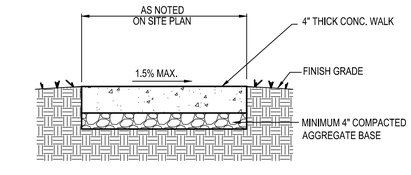


* SEE GRADING PLAN FOR ANY VARIATIONS TO EXPOSED CURB HEIGHT.

C2 CURB AT DRIVE THRU
N.T.S.

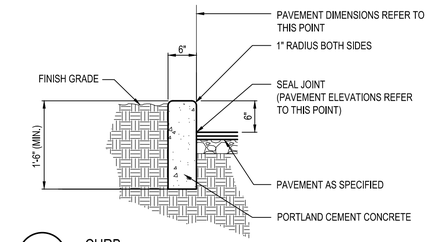


C3 BUTT JOINT
N.T.S.

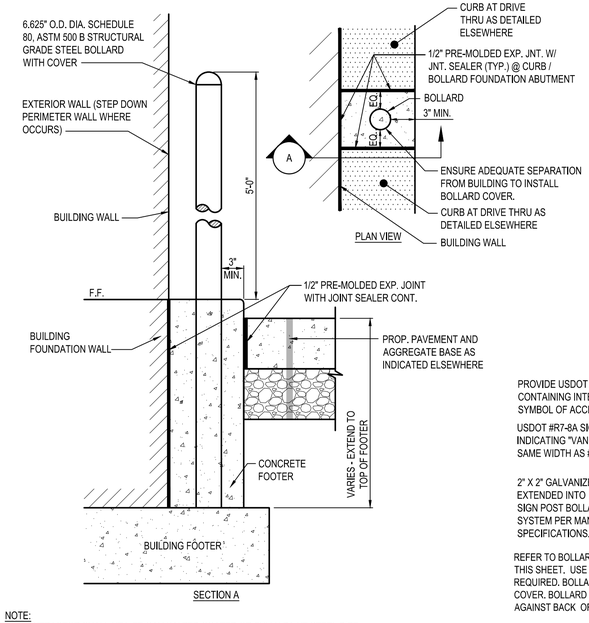


NOTES:
1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.

C4 P.C.C. WALK
N.T.S.

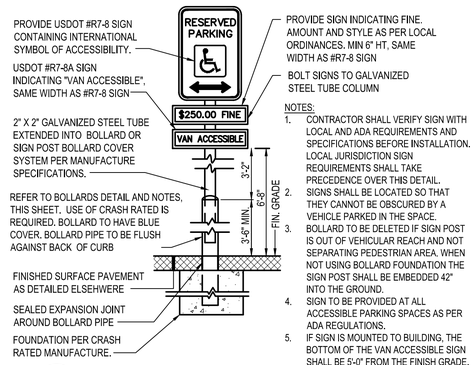


C5 CURB
N.T.S.



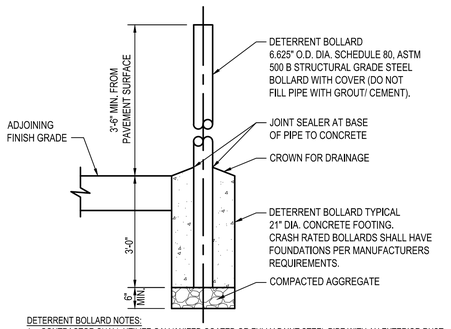
NOTE:
1. CONTRACTOR SHALL UTILIZE GALVANIZED COATED OR FULLY PAINT STEEL PIPE WITH AN EXTERIOR RUST INHIBITIVE PAINT PRIOR TO INSTALLATION AND TOUCH UP AFTER INSTALLATION SUCH AS SHERWIN-WILLIAMS MACROPOXY 646 FAST CURE (B58W610), IN ACCORDANCE WITH MANUFACTURERS PREPARATION REQUIREMENTS. PROVIDE A YELLOW (BLUE FOR ADA) BOLLARD COVER SUCH AS A STREET SMART SOLUTIONS POST GUARD, DOME-TOP COVER BY US-POSTMAN.COM OR APPROVED EQUAL.

A1 DETERRENT 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 REACH AND NOT SEPARATING PEDESTRIAN AREA. WHEN NOT USING BOLLARD FOUNDATION THE SIGN POST SHALL BE EMBEDDED 42" INTO THE GROUND.
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.

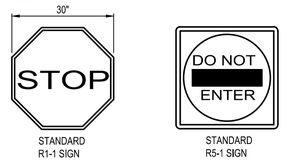
A2 HANDICAPPED PARKING SIGN
N.T.S.



DETERRENT BOLLARD NOTES:
1. CONTRACTOR SHALL UTILIZE GALVANIZED COATED OR FULLY PAINT STEEL PIPE WITH AN EXTERIOR RUST INHIBITIVE PAINT PRIOR TO INSTALLATION AND TOUCH UP AFTER INSTALLATION SUCH AS SHERWIN-WILLIAMS MACROPOXY 646 FAST CURE (B58W610), IN ACCORDANCE WITH MANUFACTURERS PREPARATION REQUIREMENTS. PROVIDE A YELLOW (BLUE FOR ADA) BOLLARD COVER SUCH AS A STREET SMART SOLUTIONS POST GUARD, DOME-TOP COVER BY US-POSTMAN.COM OR APPROVED EQUAL.

CRASH-RATED BOLLARD NOTES
2. WHERE BOLLARDS ARE SEPARATING PEDESTRIANS / STOREFRONTS AND VEHICLES THE CONTRACTOR SHALL INSTALL A CRASH RATED BOLLARD AND FOOTING PER ASTM F3016/3016M. TYPICAL CLEAR SPACING OF 60" WITH AN ANTICIPATED S20 RATING FOR BIDDING PURPOSES - FINAL SPACING AND RATING SHALL BE IN ACCORDANCE WITH ASTM AND THE MANUFACTURERS REQUIREMENTS FOR PROPOSED LOCATIONS AND POSSIBLE VEHICLE APPROACH SPEED. THE NOTED ASTM CRASH RATED PRODUCT SUCH AS, BUT NOT LIMITED TO, CRASHCORE BOLLARD BY MCCUE.COM OR APPROVED CRASH RATED EQUIVALENT SHALL BE UTILIZED IN ACCORDANCE WITH MANUFACTURE SPECIFICATIONS. INSTALLER / CONTRACTOR SHALL BE OR BECOME CERTIFIED INSTALLERS, CONTACT MANUFACTURER(S) FOR DETAILS.

A3 BOLLARDS
N.T.S.

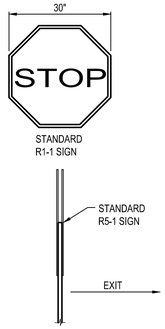


NOTE
ALL SIGNS NOTED SHALL CONFORM TO THE LATEST FDOT SPECIFICATIONS.

ALL SIGNS SHALL BE MOUNTED TO A HEIGHT OF 7'-0" MEASURED TO THE BOTTOM OF SIGN.

POSTS SHALL BE DRIVEN TO A MINIMUM OF 42" IN DEPTH.

B5 DO NOT ENTER & STOP SIGN
N.T.S.



NOTE
ALL SIGNS NOTED SHALL CONFORM TO THE LATEST FDOT SPECIFICATIONS.

ALL SIGNS SHALL BE MOUNTED TO A HEIGHT OF 7'-0" MEASURED TO THE BOTTOM OF SIGN.

POSTS SHALL BE DRIVEN TO A MINIMUM OF 42" IN DEPTH.

A5 STOP SIGN
N.T.S.

GPD GROUP, INC.®
LIC. # - 30920
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

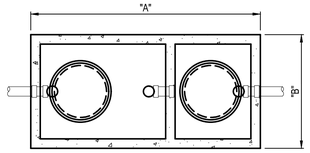
ENDEAVOR 2.0

DETAILS

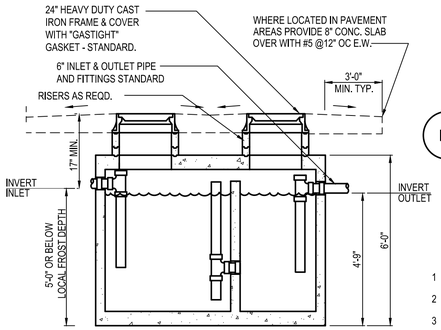
C-501

PLOT DATE: 8/19/2021 10:08:35 AM

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



TOP VIEW



SECTION

G.T. SIZE	DIM. "A"	DIM. "B"
500 GALLON	6'-2"	4'-2"
750 GALLON	8'-1"	4'-0"
1000 GALLON	8'-2"	5'-1"
1250 GALLON	8'-6"	5'-9"
1500 GALLON	*	*

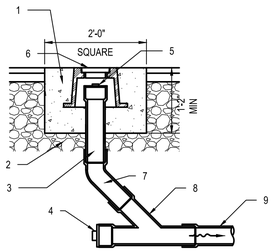
* PER MANUFACTURER SPECIFICATIONS.

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

C1 EXTERIOR GREASE INTERCEPTOR
N.T.S.

KEYED NOTES

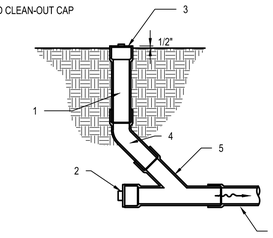
1 CONCRETE, MATCH PAVEMENT SPEC.
2 6" (MIN.) AGGREGATE BASE
3 6" DIA. CLEAN-OUT PIPE
4 CAP AND SEAL CONDUIT
5 THREADED CLEAN-OUT CAP
6 CAST-IRON MONUMENT BOX, EJIW 1565 OR APPROVED EQUAL.
7 45° BEND
8 WYE
9 SEWER



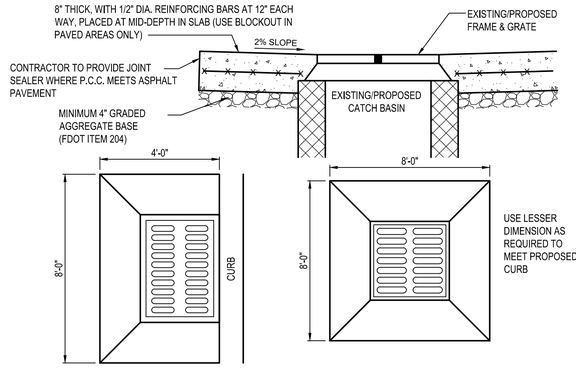
D2 CLEAN OUT (PAVEMENT AREA)
N.T.S.

KEYED NOTES

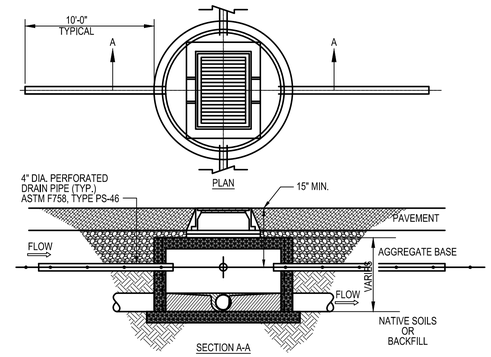
1 6" DIA. CLEAN-OUT PIPE
2 CAP AND SEAL CONDUIT
3 THREADED CLEAN-OUT CAP
4 45° BEND
5 WYE
6 SEWER



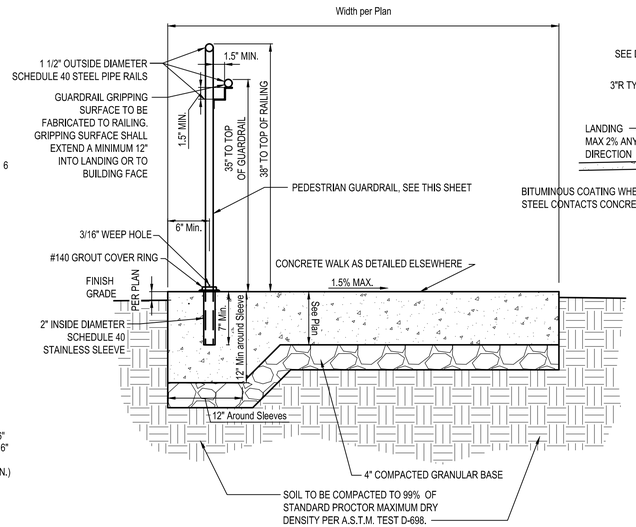
C2 CLEAN OUT (LAWN AREA)
N.T.S.



D3 CONCRETE COLLAR
N.T.S.

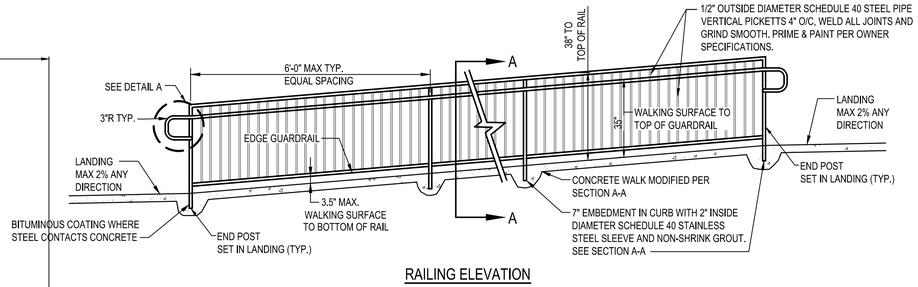


D5 FINGER DRAIN DETAIL
N.T.S.



SECTION A-A

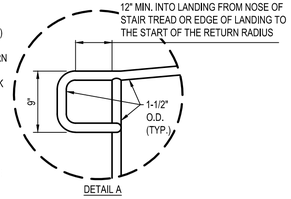
B3 HANDRAIL
N.T.S.

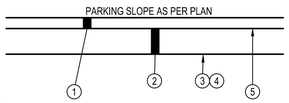


RAILING ELEVATION

RAILING NOTES:

1. PROVIDE 1 1/2" OUTSIDE DIAMETER SCHEDULE 40 STEEL PIPE RAIL FRAMES, WELD ALL JOINTS AND GRIND SMOOTH. PRIME & PAINT PER OWNER SPECIFICATIONS.
2. PROVIDE METAL FREE FROM PITTING, SEAM MARKS, ROLLER MARKS, GRINDING MARKS AND STAINS AT AREAS EXPOSED TO VIEW ON COMPLETED RAIL UNITS.
3. PROVIDE "SKATE STOPPERS" OR APPROVED EQUAL ANTI-SKATE BLOCKS, INSTALLED ONLY ALONG THE BOTTOM EDGE GUARDRAIL AT 6" ON CENTER PER MANUFACTURER'S RECOMMENDATIONS, NOT TO BE USED ON THE GRIPING SURFACE OF THE GUARDRAIL.
4. RAILINGS SHALL RESIST A CONCENTRATED LOAD OF 200# IN ANY DIRECTION & A 50# LF LOAD IN ANY DIRECTION. (NOT CONCURRENTLY)
5. SET SUPPORT POSTS 7" DEEP (Min.) IN 12" CONCRETE WALK, SEE SECTION A-A.
6. ALL UNPAINTED METAL SHALL RECEIVE 2 COATS OF ALKYD SEMI-GLOSS PAINT (OWNER SPECIFIED) OVER SHOP-APPLIED PRIMER.
7. ALL SUPPORT POSTS SHALL SINGLE POSTS WITH RAILING SUPPORTS EXCEPT AT VERTICAL RETURN ENDS WHERE POSTS SHALL BE PROVIDED FOR EACH RAIL.
8. 7" EMBEDMENT (Min.) WITH 2" INSIDE DIAMETER SCHEDULE 40 STAINLESS SLEEVE AND NON-SHRINK GROUT TO BE USED AT ALL VERTICAL RAILING SUPPORTS.
9. GUARDRAIL GRIPPING SURFACE TO BE FABRICATED TO 1 1/2" VERTICAL RAILING POSTS.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR GUARDRAILS PRIOR TO PURCHASE AND INSTALLATION.
11. STEEL MATERIAL
    a. TUBING: ASTM A 500 OR ASTM A 513.
    b. PIPE: ASTM A53/A, TYPE F OR TYPE S, GRADE A. STANDARD WEIGHT (SCHEDULE 40), PROVIDE CLEAR POWDER COAT FINISH WITH 2604 POWDER. CLEAR ANODIZED COATING SHALL BE M10C22A41 WITH A NOMINAL THICKNESS OF .7 MIL.
    c. PLATES, SHAPES AND BAR: ASTM A 36/A 36M.
    d. FITTINGS: ASTM A 276/ A 479 TYPE 304 OR TYPE 316.





1. ASPHALTIC CONCRETE - FDOT 334 - STD DUTY - 1.5" FDOT 334 - HVY DUTY - 2.0"
2. GRADED AGGREGATE BASE - FDOT 204 - STD DUTY - 6.0" HVY DUTY - 8.0"
3. SUBGRADE COMPACTION - PER SOILS REPORT - 12" (MIN.)
4. PROOF ROLLING
5. 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.
2. NO RAP SHALL BE PERMITTED IN ASPHALT SURFACE COURSE.

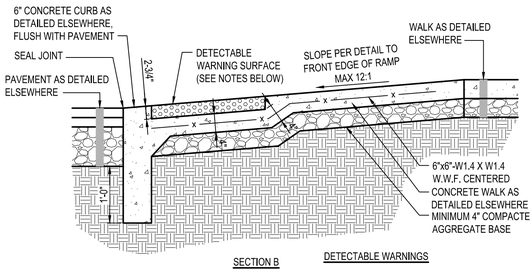
B1 TYPICAL PAVEMENT SECTION
N.T.S.

1. P.C.CONCRETE PAVEMENT - LIGHT DUTY - 6" HEAVY DUTY - 8"
2. GRADED AGGREGATE BASE - FDOT 204 - LIGHT DUTY - 6" HEAVY DUTY - 6"
3. SUBGRADE COMPACTION - PER SOILS REPORT - 12" (MIN.)
4. PROOF ROLLING

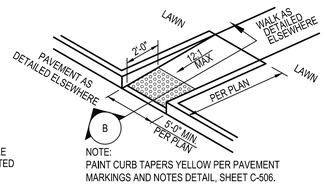
NOTES:

1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT. APPLY CONCRETE SEALANT CONFORMING TO ASTM D6690 WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE.
2. SEE SITE PLAN FOR REINFORCEMENT.
3. CONCRETE PAVEMENT SHALL HAVE CONTROL JOINTS AT 12'-0" O.C.

B2 TYPICAL CONCRETE PAVEMENT SECTION
N.T.S.



SECTION B



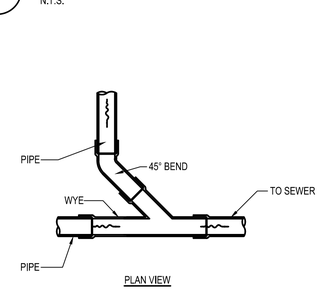
NOTE:
PAINT CURB TAPERS YELLOW PER PAVEMENT MARKINGS AND NOTES DETAIL, SHEET C-506.

PERPENDICULAR RAMP

DETECTABLE WARNINGS

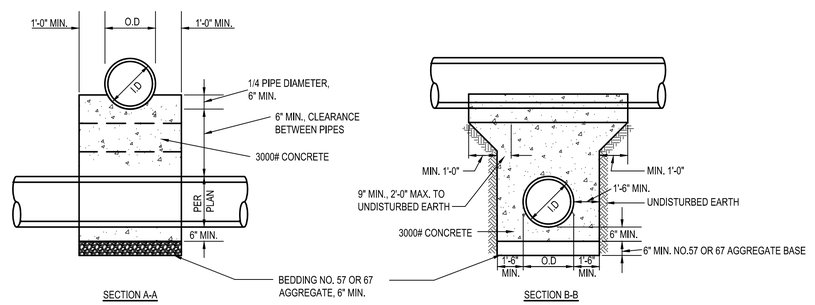
1. ARMOR-TILE TACTILE SYSTEMS DETECTABLE WARNING SURFACE TILE PER ARMOR-TILE SPECIFICATIONS FOR INSTALLATION (WWW.ARMOR-TILE.COM)
2. DETECTABLE WARNING COLOR SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
3. DETECTABLE WARNING SHALL ONLY BE INSTALLED FOR CURB RAMPS WITHIN RIGHT OF WAY.

A1 ADA ACCESSIBLE RAMP
N.T.S.



PLAN VIEW

A3 WYE CONNECTION
N.T.S.



A4 CONCRETE ENCASEMENT MONOLITHIC CRADLING OF UPPER PIPE FOR CROSSINGS WITH LESS THAN 18" MINIMUM CLEARANCE
N.T.S.

GPD GROUP, INC.®
LIC. # - 30920
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

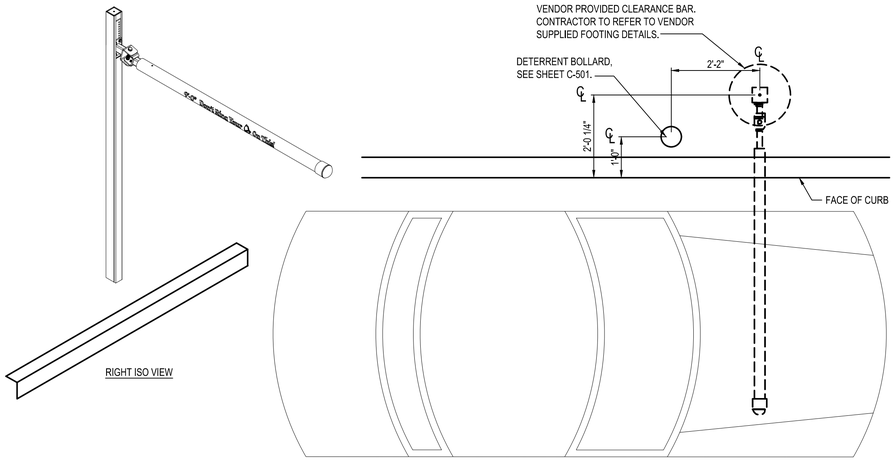
ENDEAVOR 2.0

DETAILS

C-502

PLOT DATE: 8/19/2021 10:08:35 AM

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

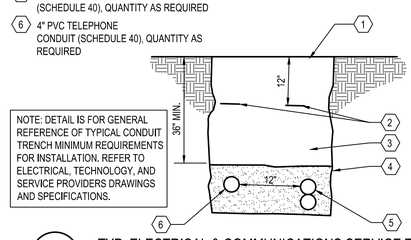


B1 PORTAL PLACEMENT DETAIL
N.T.S.

KEYED NOTES

1. TOPSOIL & SEED, OR PAVEMENT AS DETAILED ELSEWHERE.
2. CONTINUOUS METALLIC WARNING TAPE
3. CLEAN SELECT GRANULAR BACKFILL
4. 6" CLEAN SAND ENVELOPE
5. 4" PVC ELECTRICAL CONDUITS (SCHEDULE 40), QUANTITY AS REQUIRED
6. 4" PVC TELEPHONE CONDUIT (SCHEDULE 40), QUANTITY AS REQUIRED

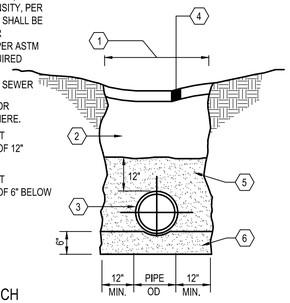
NOTE: DETAIL IS FOR GENERAL REFERENCE OF TYPICAL CONDUIT TRENCH MINIMUM REQUIREMENTS FOR INSTALLATION. REFER TO ELECTRICAL, TECHNOLOGY, AND SERVICE PROVIDERS DRAWINGS AND SPECIFICATIONS.



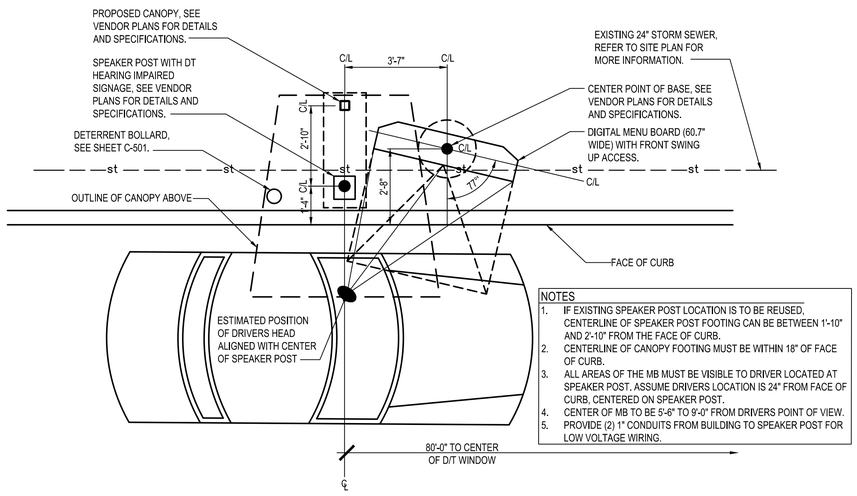
B3 TYP. ELECTRICAL & COMMUNICATIONS SERVICE TRENCH
N.T.S.

KEYED NOTES

1. EXCAVATE WIDTH OF TRENCH AS NEEDED
2. PLACE SUITABLE SOIL OR GRANULAR BACKFILL IN 6" MAX. LIFTS. SUITABLE SOIL SHALL BE COMPACTED TO 90% MIN. (98% MIN. UNDER PAVEMENT) DRY DENSITY, PER ASTM D698, GRANULAR BACKFILL SHALL BE COMPACTED TO 75% (80% UNDER PAVEMENT) RELATIVE DENSITY, PER ASTM 4353. GRANULAR BACKFILL REQUIRED UNDER PAVEMENT.
3. PROPOSED STORM OR SANITARY SEWER
4. TOPSOIL, SEED, AND MULCHING OR PAVEMENT AS DETAILED ELSEWHERE.
5. GRADED AGGREGATE BASE (FDOT APPROVED) PLACED A MINIMUM OF 12" ABOVE THE TOP OF THE PIPE
6. GRADED AGGREGATE BASE (FDOT APPROVED) PLACED A MINIMUM OF 6" BELOW THE BOTTOM OF THE PIPE



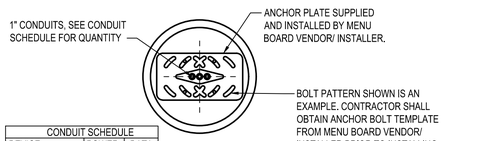
B4 SEWER TRENCH
N.T.S.



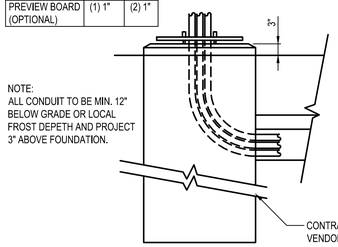
NOTES

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.

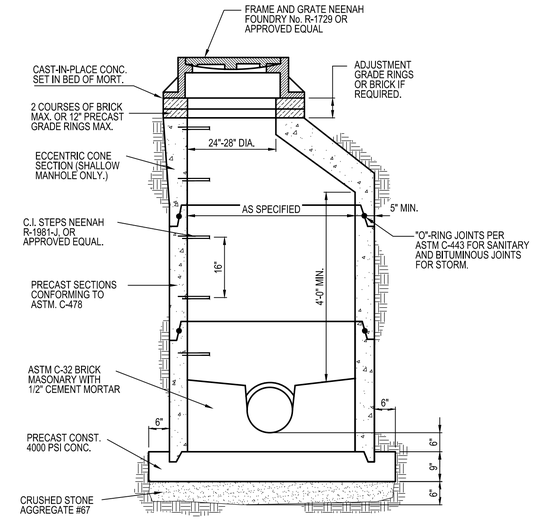
A1 ENLARGED MENU BOARD DETAIL @ STRAIGHT CURB
N.T.S.



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"



A3 FOUNDATION CONDUIT DETAIL
N.T.S.



A4 STORM SEWER MANHOLE
N.T.S.

GPD GROUP, INC.®
LIC. # - 30920

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

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

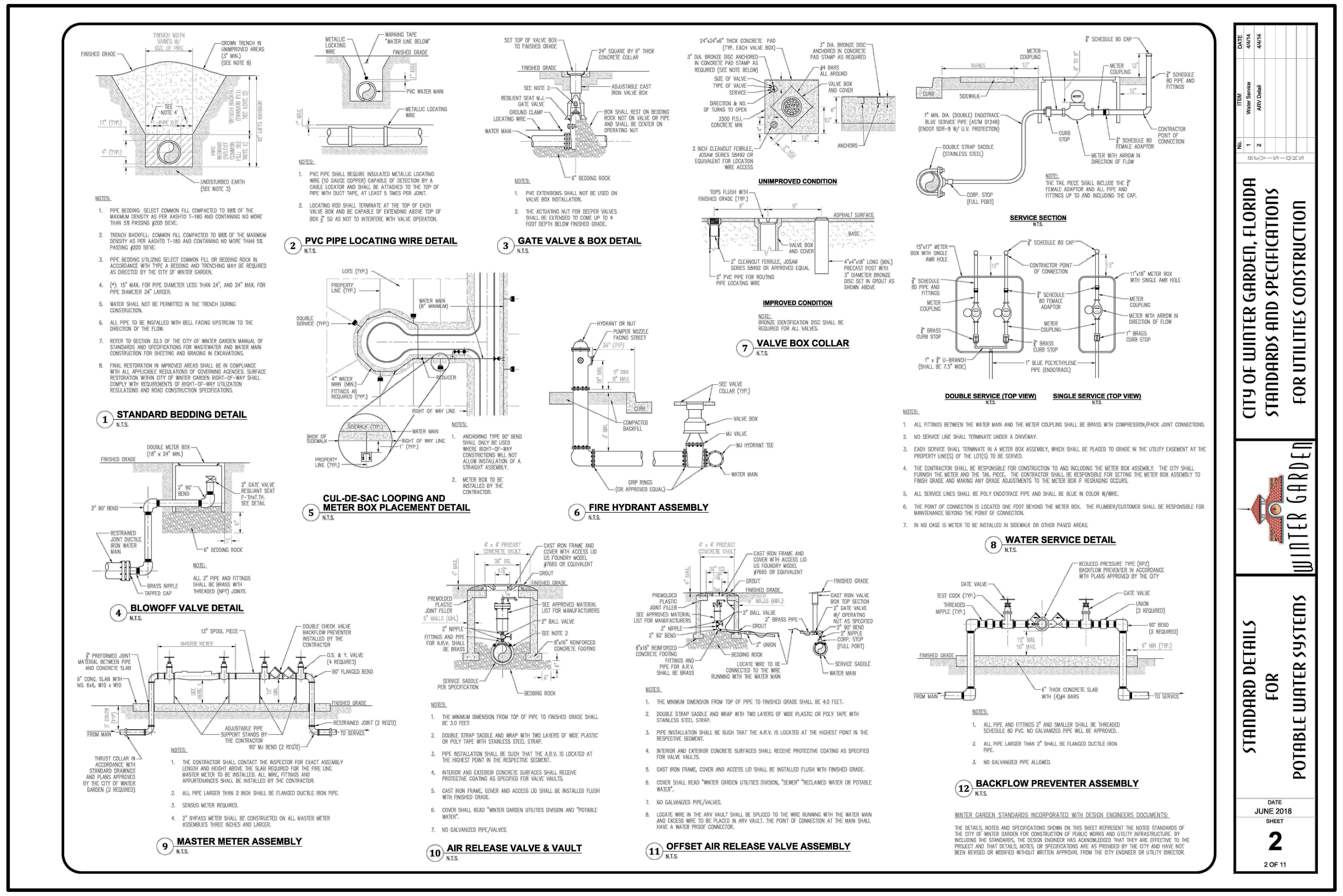
ENDEAVOR 2.0

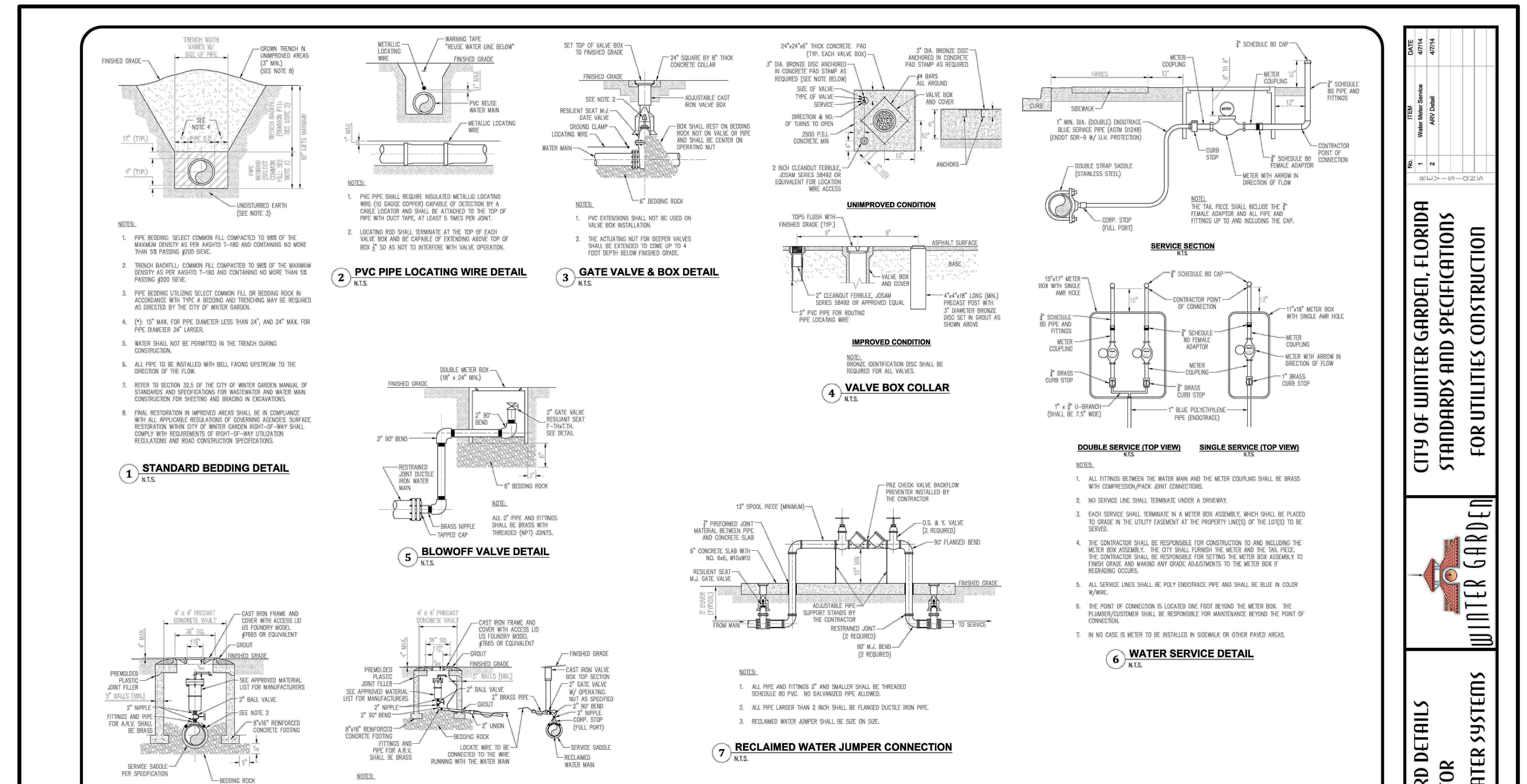
DETAILS

C-503

PLOT DATE: 8/19/2021 10:08:35 AM

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





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CITY OF WINTER GARDEN - GENERAL NOTES:

1. ALL UTILITY SYSTEMS AND IMPROVEMENTS CONSTRUCTED IN THE CITY OF WINTER GARDEN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUAL OF STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION FOR THE CITY OF WINTER GARDEN, TO BE REFERRED TO AS MSS/CWG. THE LATEST EDITION AT THE TIME PERMITS ARE APPROVED SHALL BE EFFECTIVE FOR THE DURATION OF THE SUBJECT WORK OR PROJECT DEVELOPMENT.
2. THE CITY OF WINTER GARDEN GENERAL NOTES AND DETAILS ARE PROVIDED FOR THE CONVENIENCE OF FIELD PERSONNEL. THEY DO NOT INCLUDE ALL REQUIREMENTS OF THE MSS/CWG. THE CONTRACTOR SHALL REFER TO THE FULL TEXT OF THE MSS/CWG FOR FURTHER DETAIL AND CLARITY WHEN NEEDED.
3. ANY REQUEST FOR VARIANCE OR NONCOMPLIANCE FROM THE MSS/CWG NOTED ABOVE MUST BE APPROVED BY THE CITY ENGINEER OR UTILITIES DIRECTOR.
4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN CLOSE PROXIMITY TO WATER, WASTEWATER, RECLAIMED WATER AND OTHER UTILITY SYSTEMS. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS WITH RESPECTIVE UTILITY OWNERS AND/OR CALL,"SUNSHINE ONE CALL", 1-800-432-4770 A MINIMUM OF 72 HOURS IN ADVANCE.
5. CONTRACTOR'S DAMAGE OF WINTER GARDEN UTILITY SYSTEM: THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND REPORT DAMAGE TO THE CITY OF WINTER GARDEN UTILITY DIVISION, (NO MASSAGE) PHONE # 407-656-4100.
6. IMMEDIATELY REPAIR OF DAMAGED UTILITY SYSTEM: THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE TO THE CITY OF WINTER GARDEN UTILITY SYSTEM AS REQUIRED BY THE UTILITY OWNER AT CONTRACTORS COST. IN CASE OF UNRESPONSIVE ACTION BY THE CONTRACTOR, THE CITY RESERVES RIGHT TO REPAIR DAMAGE. THE CONTRACTOR SHALL REIMBURSE THE CITY OF WINTER GARDEN OF ALL REPAIR COST.
7. ADVANCE NOTIFICATION OF CONSTRUCTION: THE CONTRACTOR SHALL NOTIFY CITY OF WINTER GARDEN, UTILITY DIVISION, PH.# 407-656-4100, AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY.
8. ADVANCE NOTIFICATION OF UTILITY CONNECTION: THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN AT LEAST SEVEN CALENDAR DAYS IN ADVANCE TO SCHEDULE CONNECTIONS TO UTILITY SYSTEM.
9. UTILITY VALVE OPERATION: ONLY CITY OF WINTER GARDEN UTILITY PERSONNEL SHALL OPERATE VALVES AND FIRE HYDRANTS. THE CONTRACTOR, WHEN NEEDED, SHALL CALL THE CITY TO REQUEST VALVE OPERATIONS AT LEAST TWO (2) DAYS IN ADVANCE OF CONSTRUCTION WORK.
10. OPERATIONS INVOLVING WATER OR WASTEWATER FACILITIES INCLUDING PUMPING STATIONS: THE CONTRACTOR SHALL COORDINATE AT LEAST TWO (2) WEEKS IN ADVANCE, ANY CONSTRUCTION OPERATION THAT MAY REQUIRE THE DISCONTINUATION OF SERVICE OR OPERATION OF A FACILITY. THE CITY WILL PROVIDE PERSONNEL TO OPERATE THE CITY FACILITIES.
11. REQUIRED TESTING BY CONTRACTOR: THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN AT LEAST TWO (2) DAYS PRIOR TO SAMPLING ACTIVITIES FOR PURPOSE OF TESTING AS REQUIRED BY THE CITY. THE CONTRACTOR SHALL NOT TEST OR SAMPLE WITHOUT OBSERVATION BY CITY INSPECTION PERSONNEL.
12. TEMPORARY OR CONSTRUCTION WATER SERVICE CONNECTIONS PROVIDED BY FIRE HYDRANT CONNECTION: THE CITY WILL PROVIDE METER ON FIRE HYDRANT. THE CONTRACTOR SHALL PROVIDE NON-REFUNDABLE ACCOUNT INITIATION FEE, A REFUNDABLE SECURITY DEPOSIT FOR THE METER APPARATUS AND PAY ALL COST FOR WATER USED.
13. ALL AS BUILT MEASUREMENTS & ELEVATIONS ARE TO BE MADE BY A LICENSED LAND SURVEYOR.

CITY OF WINTER GARDEN - WASTEWATER SYSTEM NOTES:

1. SANITARY SEWER MAINS AND SERVICES SHALL BE PVC SDR-26 (MINIMUM). FITTINGS SHALL BE SDR-26. DUCTILE IRON IS NOT APPROVED FOR SANITARY SEWERS.
2. ALL SERVICES SHALL BE 6" (MINIMUM) DIAMETER AND TERMINATE AT THE PROPERTY LINE WITH 6" CLEAN OUT. (36" TO 48" DEEP AT LOT LINE)
3. MAGNETIC TAPE MUST BE PLACED 2' ABOVE THE TOP OF PIPE FOR THE ENTIRE LENGTH OF ALL MAINS AND SERVICES.
4. ALL SANITARY MANHOLES SHALL BE PAINTED INSIDE AND OUT WITH "BITUMASTIC SUPER SERVICE BLACK", BY KOPPERS OR APPROVED EQUAL. MANHOLES RECIEVING FLOW FROM FORCE MAINS SHALL BE LINED WITH FIBERGLASS OR HDPE AT THE PRECASTERS FACILITY.
5. ALL PIPE CONNECTIONS TO PRE-CAST MANHOLES SHALL BE MADE USING A FLEXIBLE EPDM RUBBER BOOT AND STAINLESS STEEL STRAP OR CAST IN BOOT BY A-LOK, Z-LOK OR EQUAL.
6. CONNECTIONS MADE TO EXISTING MANHOLES SHALL BE CORE BORED WITH A MINIMUM 6" BORE AND CONNECTION SEALED WITH FLEXIBLE BOOT AND STAINLESS STEEL CLAMP.
7. DEAD END MANHOLES SHALL HAVE A MINIMUM OF 5 FEET OF COVER FROM FINISHED GRADE TO OUTLET PIPE INVERT.
8. ALL PRECAST SEWER MANHOLES SHALL HAVE A 4 FOOT MINIMUM HIGH BARREL. CONE SECTIONS SHALL BE 3 FOOT MAXIMUM. CONCRETE DONUTS FOR EXTENDING ARE ACCEPTABLE TO RAISE MANHOLES UP TO 1 FOOT MAXIMUM.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL BALLCENTRIC PLUG VALVES IN FORCE MAINS AT 1000 FOOT MAXIMUM SPACING BETWEEN VALVES. VALVES SHALL BE LOCATED AT ALL TEES AND CROSSES.
10. THE CONTRACTOR SHALL CUT A "S" INTO CONCRETE CURB LOCATED INSIDE OF A PAINTED GREEN SQUARE BOX, IN FRONT OF EACH SERVICE LOCATION.
11. THE CONTRACTOR SHALL PROVIDE TV INSPECTION OF ALL SANITARY SEWER MAINS AFTER SYSTEM IS COMPLETED, THOROUGHLY CLEANED, DRAINED AND FULLY VISIBLE. TV INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS. FAULTY INSPECTION DUE TO POOR CONDITIONS WILL REQUIRE REINSPECTION BY CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE A (WARRANTY) TV INSPECTION AT THE TWO YEAR IN SERVICE MILESTONE FOR EACH SYSTEM.
13. THE CONTRACTOR SHALL PROVIDE SANITARY SEWER TESTING, EXFILTRATION OR AIR, AS REQUIRED BY DESIGN ENGINEER AND SUBMIT CERTIFIED RESULTS TO THE CITY ENGINEER.
14. GRAVITY SEWERS DEPTHS SHALL NOT EXCEED 18 FEET.
15. THE DESIGN ENGINEER SHALL PROVIDE A MINIMUM OF ONE FOOT OF FREEBOARD BETWEEN THE LOWEST FINISHED FLOOR ELEVATION AND THE TOP ELEVATION OF THE WET WELL.
16. ALL PENETRATIONS INTO CONCRETE STRUCTURES SHALL BE PRE-CAST OR CORE-DRILLED.
17. WARRANTY – ALL MATERIALS & EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED FOR A PERIOD OF TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE THEREOF AGAINST DEFECTIVE MATERIALS, DESIGN, AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE CITY OF FAILURE OF ANY PART OF THE WARRANTED EQUIPMENT OR MATERIALS DURING THE WARRANTY PERIOD, THE AFFECTED PART, PARTS, OR MATERIALS SHALL BE PROMPTLY REPLACED BY THE CONTRACTOR WITH NEW PARTS OR MATERIALS AT NO EXPENSE TO THE CITY. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS IMMEDIATELY AFTER NOTIFICATION, THE CITY MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION OF SEWER LINES

GENERAL:

1. ALL NEW SANITARY SEWER LINES, PRIVATE OR CITY MAINTAINED, IN THE CITY OF WINTER GARDEN'S SERVICE AREA SHALL BE INSPECTED BY CLOSED CIRCUIT TV INSPECTION BY THE CONTRACTOR WITH A CITY INSPECTOR PRESENT PRIOR TO BEING ACCEPTED BY THE CITY.

REQUIREMENTS PRIOR TO INSPECTION RELEASE:

1. ALL ELEMENTS OF THE SEWER SYSTEM MUST BE INSTALLED AND BE COMPLETELY FINISHED, INCLUDING MAIN SEWER LINES, LATERALS, CLEAN OUTS, AND MANHOLES PRIOR TO CCTV INSPECTION.
2. ALL SEWER LINES SHALL BE COMPLETELY CLEANED OF ALL DEBRIS, SAND, WATER, ETC. PRIOR TO THE CCTV INSPECTION. ANY OBJECT OR MATTER THAT PREVENTS CCTV INSPECTION FROM VIEWING CONDITION OF PIPELINE IS CONSIDERED AN OBSTRUCTION REQUIRING ADDITIONAL CLEANING. WHEN CCTV VIEW IS OBSTRUCTED, INSPECTION SHALL BE TERMINATED. THE CONTRACTOR SHALL CLEAN THE SEWER SYSTEM COMPLETELY AND RESCHEDULE CCTV RE-INSPECTION WITH THE CITY.
3. A HYDRAULIC SEWER CLEANER SHALL NOT BE USED DURING THE CCTV INSPECTION. IF LINES ARE FOUND TO BE OBSCURED BY WATER OR DEBRIS DURING THE CCTV INSPECTION, THE INSPECTION SHALL BE TERMINATED AND RESCHEDULED TO A TIME WHEN SEWER CLEANING IS COMPLETE.
4. WHEN A SEWER LINE IS UNDER A PAVED AREA, THE AREA SHALL BE COMPACTED AND PRIMED BEFORE THE SYSTEM SHALL BE RELEASED FOR TV INSPECTION.

TELEVISION EQUIPMENT MINIMUM REQUIREMENTS:

1. THE CLOSED CIRCUIT TV CAMERA SHALL PRODUCE A CLEAR COLOR PICTURE ON THE MONITOR AND ON THE DVD RECORDING. THE CAMERA SHALL BE ABLE TO SHOW DETAIL TO THE POINT THAT ALL JOINTS AND ANY DEFECTS MAY BE READILY SEEN AT THE TIME OF THE INSPECTION. THE CAMERA SHALL STOP AND PAN AT EACH JOINT FOR COMPLETE 360 DEGREE INSPECTION.
2. REFER TO APPENDIX B OF THE REFERENCED STANDARDS FOR SPECIFICATION OF CLOSED CIRCUIT TELEVISION INSPECTION EQUIPMENT.
3. THE VIDEO RECORDER SHALL PRODUCE A NO NOISE STILL PICTURE, AND PROVIDE BOTH AUDIO AND VIDEO DURING THE INSPECTION.
4. A MEASURING DEVICE, APPROVED BY THE CITY, TO CHECK THE GRADE OF THE PIPE DURING THE INSPECTION, SHALL BE REQUIRED. GAUGE DEPTH, 0" TO 2" MIN. WITH 1/2" MARKINGS.
5. AUDIO OF THE INSPECTION SHALL BE SIMULTANEOUSLY RECORDED ON DVD DISC. THE AUDIO SHALL CONSIST OF ORDINARY DESCRIPTION AND COMMENTARY. A TAPE WILL BE GIVEN TO THE INSPECTOR ON SITE AT THE END OF THE DAY.

PROCEDURE FOR TELEVISING:

1. THE CITY'S ENGINEERING INSPECTION DIVISION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS NOTICE PRIOR TO THE TIME PLANNED FOR THE TV INSPECTION TO COMMENCE. A DEFINITE TIME AND DATE WILL BE AGREED UPON BY THE CONTRACTOR AND INSPECTOR AT THAT TIME.
2. NO INSPECTION SHALL COMMENCE WITHOUT THE PRESENCE OF THE INSPECTOR, EXCEPT WHEN PRIOR ARRANGEMENTS HAVE BEEN MADE BETWEEN THE CONTRACTOR, INSPECTOR, AND THE CITY. TV INSPECTION SHALL BE PERFORMED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
3. ALL CCTV INSPECTIONS SHALL COMMENCE UP STREAM OF THE SYSTEM TO PREVENT FOREIGN SUBSTANCES FROM ENTERING A SECTION PREVIOUSLY TELEVISED. THE CAMERA SHALL BE STARTED FROM THE DOWNSTREAM MANHOLE AND PROCEED UPSTREAM IN DIRECTION OPPOSING THE NORMAL FLOW IN THE LINE. THIS PROCEDURE WILL ALLOW FOR THE VIEWING OF THE SERVICE LATERALS.
4. BEFORE THE CAMERA IS PLACED IN THE SEWER LINE, WATER WITH YELLOW OR ORANGE DYE SHALL BE PUT INTO THE UPSTREAM MANHOLE OF THE SECTION BEING TELEVISED. CAMERA WILL HAVE A GAUGE SHOWING 1/2" MARKS FROM 1/2" TO 2-1/2". THIS WILL ENABLE THE CAMERA TO DETECT ANY CHANGES IN GRADE THAT MAY BE PRESENT IN THE SYSTEM.
5. THE CCTV AND DVD RECORDER SHALL BE TURNED ON BEFORE THE CAMERA IS PLACED IN THE MANHOLE FOR INSPECTION AND SHALL NOT BE TURNED OFF UNTIL THE CAMERA IS REMOVED FROM THE MANHOLE. THE CAMERA SHALL BE MOVED THROUGH THE LINE UNDER THE CONTROL OF THE CCTV CAMERA OPERATOR. THE CAMERA SHALL BE DRAWN THROUGH THE LINE AT A RATE NOT TO EXCEED THIRTY (30) FEET PER MINUTE AND SHALL STOP AT ALL SERVICE CONNECTIONS AND PIPE JOINTS IN THE PIPELINE.
6. A DVD RECORDING SHALL BE MADE OF THE ENTIRE SYSTEM BEING TELEVISED. THIS SHALL BECOME THE PROPERTY OF THE CITY UPON COMPLETION OF THE TV INSPECTION (NOT A COPY). THE TAPE(S) SHALL BE LABELED IN SUCH A MANNER THAT STATES THE PROJECT NAME, DATE OF INSPECTION AND LINE SECTION ACCORDING TO CONSTRUCTION PLANS CONTAINED ON EACH TAPE. A WRITTEN REPORT SHALL ACCOMPANY THE DVD DISC.

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY	POTABLE WATER HORIZ.	POTABLE WATER VERT.	RECLAIMED WATER* HORIZ.	RECLAIMED WATER* VERT.	SANITARY SEWER (GRAVITY) HORIZ.	SANITARY SEWER (GRAVITY) VERT.	SANITARY SEWER (FORCEMAIN) HORIZ.	SANITARY SEWER (FORCEMAIN) VERT.	STORM WATER HORIZ.	STORM WATER VERT.	ACCEPTABLE VARIANCES
POTABLE WATER	–	–	3'	12"	6'	12"	6'	12"	3'	6" A 12" B	SEE GENERAL NOTES: NO. 4 & 5
RECLAIMED WATER*	3'	12"	–	–	3'	6" A 12" B	3'	12"	–	–	
SANITARY SEWER (GRAVITY)	6'	12"	3'	6" A 12" B	–	–	–	–	–	–	
SANITARY SEWER (FORCEMAIN)	6'	12"	3'	12"	–	–	–	–	–	–	

GENERAL NOTES:

1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.

*2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 62-610, CHAPTER III. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.

3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.
   A. DENOTES POTABLE WATER ABOVE RECLAIMED WATER, SANITARY SEWER OR STORM WATER; OR RECLAIMED WATER ABOVE SANITARY SEWER.
   B. DENOTES POTABLE WATER BELOW RECLAIMED WATER, SANITARY SEWER OR STORM WATER; OR RECLAIMED WATER BELOW SANITARY SEWER.
4. UTILITY SEPARATION – VERTICAL CLEARANCE MITIGATION
   A. WHERE WATER AND GRAVITY SANITARY SEWER MAINS CROSS WITH LESS THAN REQUIRED VERTICAL CLEARANCE OR THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER WILL BE 20 FEET OF EITHER:
   A.1. DUCTILE IRON PIPE, CENTERED ON THE POINT OF CROSSING, OR;
   A.2. CONCRETE ENCASED VITRIFIED CLAY, OR;
   A.3. PVC PIPE UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED.
   B. WHERE WATER MAINS AND STORM SEWER PIPES CROSS WITH LESS THAN REQUIRED VERTICAL CLEARANCE, THE WATER MAIN SHALL BE 20 FEET OF DUCTILE IRON PIPE CENTERED ON THE POINT OF CROSSING.
   C. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE DEPARTMENT.
5. UTILITY SEPARATION – HORIZONTAL SEPARATION MITIGATION
   A. WHEN A WATER MAIN PARALLELS A GRAVITY SANITARY SEWER MAIN, A SEPARATION (MEASURED EDGE TO EDGE) OF AT LEAST SIX FEET SHOULD BE MAINTAINED. WHERE THIS SEPARATION IS NOT MET, ONE OF THE FOLLOWING MUST OCCUR.
   A.1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER, OR:
   A.2. IF BOTH SANITARY SEWER AND POTABLE WATER MAINS ARE PROPOSED AND THE ABOVE (1.) IS NOT MET, THE SANITARY SEWER PIPES SHALL BE UPGRADED TO THE EQUIVALENT PIPE MATERIAL AS THE WATER MAIN AND PRESSURE TESTED.
   A.3. IF THE SANITARY SEWER IS EXISTING AND THE POTABLE WATER MAIN IS PROPOSED, THE WATER MAIN SHALL, AT A MINIMUM, BE UPGRADED TO DUCTILE IRON PIPE, CONSTRUCTED IN SEPARATE TRENCHES, LAID AT A HIGHER ELEVATION THAN THE SANITARY SEWER, AND UTILIZE STAGGERED JOINTS.
   B. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE DEPARTMENT.
6. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

CITY OF WINTER GARDEN - WATER SYSTEM NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT TO THE CITY WATER SYSTEM.
2. REPAIRS TO NEW WATER LINES, TO OBTAIN SPECIFIED PRESSURE TEST, WILL BE ALLOWED ONLY UP TO A NUMBER EQUAL TO 10% OF THE TOTAL NUMBER OF JOINT CONNECTIONS.
3. THE CONTRACTOR SHALL HYDROSTATICALLY TEST ALL WATER MAINS AND SERVICE LATERALS AT 150 PSI FOR A TWO HOUR PERIOD. TESTING MUST BE OBSERVED BY A CITY INSPECTOR.
4. THE CONTRACTOR SHALL INSTALL WARNING TAPE OVER ALL NEW WATER MAINS. WARNING TAPE SHALL BE AS FOLLOWS: NON-DETECTABLE, SIZE 2" WITH "WATER LINE BELOW", MUST BE PLACED 8" TO 12" BELOW FINISHED GRADE ON ALL PVC WATER MAINS, LATERALS AND HEADER TEES, NUMBER 10 GAUGE TRACER WIRE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH DUCT TAPE, AT LEAST FIVE TIMES PER JOINT. THE TRACER WIRE SHALL ALSO BE ATTACHED TO ALL PVC LATERALS AND ATTACHED TO THE OUTSIDE OF EACH VALVE BOX SO THAT A PIPE LOCATOR CAN BE CONNECTED TO IT.
5. THE CONTRACTOR SHALL INSTALL WATER MAINS PER MoSS/CoWG SPECIFICATIONS. SOLVENT CEMENTED JOINTS AND THRUST BLOCKS ON PIPING SYSTEMS SHALL NOT BE ALLOWED.
6. THE CONTRACTOR SHALL INSTALL ALL WATER MAINS TO A MINIMUM DEPTH OF 36 INCHES AND A MAXIMUM DEPTH OF 42 INCHES BELOW FINAL GRADE.
7. THE CONTRACTOR SHALL INSTALL ALL SERVICE LATERALS A UNIFORM DISTANCE APART, LOCATED ON PROPERTY LOT LINE AT 90° FROM THE WATER MAIN. SERVICE LATERALS SHALL BE SEPARATELY CONNECTED TO THE WATER MAIN, NOT SPLICED TOGETHER.
8. THE CONTRACTOR SHALL CUT A "W" INTO CONCRETE CURB, LOCATED INSIDE OF A PAINTED BLUE SQUARE, LOCATED DIRECTLY IN FRONT OF EACH SERVICE LATERAL.
9. THE CONTRACTOR SHALL INSTALL CURB STOP, IN METER BOX, CURB STOP SHALL BE SET 8" BELOW FINISHED GRADE.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL IN-LINE VALVES ON WATER MAINS AT 1,000 FOOT MAXIMUM SPACING BETWEEN VALVES. VALVES SHALL BE LOCATED ON ALL TEE'S AND CROSSES. WATER MAINS SHALL BE PLACED UNDER SIDEWALKS WHERE POSSIBLE.
11. ALL WATERMAINS SHALL BE CLEANED BY PIGGING THE LINE WITH A FOAM PIG (MINIMUM OF 2 TIMES). A FULL BORE FLUSH MAY BE REQUIRED AFTER PIGGING TO ENSURE THE PIPE IS CLEAN AND READY FOR SERVICE. THE CONTRACTOR SHALL COORDINATE LINE PIGGING AND FULL BORE FLUSH WITH THE CITY INSPECTOR.
12. THE CONTRACTOR SHALL DEMONSTRATE THAT LOCATION WIRE INSTALLED OVER ALL WATER MAINS IS IN WORKING CONDITION AT TIME OF ACCEPTANCE BY THE CITY.
13. ALL NEW SUBDIVISION CONSTRUCTION SHALL INSTALL DOUBLE POTABLE WATER SERVICES AT THE PROPERTY LINES.

CITY OF WINTER GARDEN - RECLAIMED WATER SYSTEM NOTES:

1. ALL PRIVATE RECLAIMED WATER SYSTEMS SHALL HAVE A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT TO THE CITY WATER SYSTEM.
2. REPAIRS TO NEW WATER LINES, TO OBTAIN SPECIFIED PRESSURE TEST, WILL BE ALLOWED ONLY UP TO A NUMBER EQUAL TO 10% OF THE TOTAL NUMBER OF JOINT CONNECTIONS.
3. ALL MAINS AND SERVICE LATERALS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI FOR A TWO HOUR PERIOD.
4. WARNING TAPE, NON-DETECTABLE, SIZE 2" WITH "REUSE WATER LINE BELOW", MUST BE PLACED 8" TO 12" BELOW FINISHED GRADE ON ALL PVC WATER MAINS, LATERALS AND HEADER TEES, NUMBER 10 GAUGE TRACER WIRE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH DUCT TAPE, AT LEAST FIVE TIMES PER JOINT. THE TRACER WIRE SHALL ALSO BE ATTACHED TO ALL PVC LATERALS AND ATTACHED TO THE OUTSIDE OF EACH VALVE BOX SO THAT A PIPE LOCATOR CAN BE CONNECTED TO IT. THE CONTRACTOR SHALL DEMONSTRATE THE LOCATE WIRE TO BE IN WORKING CONDITION AT PROJECT COMPLETION.
5. THE CONTRACTOR SHALL INSTALL RECLAIMED WATER MAINS PER MoSS/CoWG. SOLVENT CEMENTED JOINTS AND THRUST BLOCKS SHALL NOT BE ALLOWED.
6. REUSE WATER MAIN SHALL BE BURIED TO A MINIMUM DEPTH OF 36" AND A MAXIMUM DEPTH 42" BELOW FINAL GRADE.
7. SERVICE LATERALS MUST BE LOCATED A UNIFORM DISTANCE APART AND ALIGNED TO PROPERTY LOT LINE AT 90° FROM THE RECLAIMED WATERMAIN.
8. CUSTOMER SERVICE LATERALS SHALL NOT BE SPLICED TOGETHER BETWEEN THE WATER MAIN AND CURB STOP.
9. THE CONTRACTOR SHALL CUT CURB A "RW" INTO CONCRETE CURB LOCATED INSIDE OF A PAINTED SQUARE (PURPLE), DIRECTLY IN FRONT OF EACH SERVICE LATERAL AND VALVE.
10. THE CONTRACTOR SHALL SET DEPTH OF CURB STOP, IN METER BOX, 8" BELOW FINISHED GRADE.
11. THE CONTRACTOR SHALL INSTALL VALVE(S) IN MAIN, NO MORE THAN 1,000 FEET APART IN BETWEEN TEES AND CROSSES. VALVES SHALL BE PROVIDED AT EACH TEE OR CROSS LOCATED IN MAIN LINE.
12. RECLAIMED WATER MAINS MAY BE LOCATED UNDER SIDEWALKS. RECLAIMED MAINS LOCATED UNDER PAVEMENT SHOULD BE MINIMIZED.
13. ALL WATERMAINS SHALL BE CLEANED BY PIGGING THE LINE WITH A FOAM PIG (MINIMUM OF 2 TIMES). A FULL BORE FLUSH MAY BE REQUIRED AFTER PIGGING TO ENSURE THE PIPE IS CLEAN AND READY FOR SERVICE. THE CONTRACTOR SHALL COORDINATE LINE PIGGING AND FULL BORE FLUSH WITH THE CITY INSPECTOR.
14. RECLAIMED WATERMAIN MAINS SHALL BE 8 INCH DIAMETER MINIMUM, 4 INCH IS ALLOWED ON DEAD END RUNS SERVING LESS THAN 20 HOMES. THE DESIGN ENGINEER SHALL SUBMIT HYDRAULIC CALCULATIONS THAT DEMONSTRATE THE PROPOSED SYSTEM WILL PROVIDE REQUIRED FLOWS AND MAINTAIN SYSTEM ABOVE MINIMUM PRESSURE. PEAK IRRIGATION RATE SHALL BE SIX(6) TIMES GREATER THAN THE AVERAGE IRRIGATION RATE OF FLOW.
15. RECLAIMED WATER SYSTEM COMPONENTS INCLUDING PIPE, VALVE BOX TOPS AND METER BOX TOPS SHALL BE RECLAIMED PURPLE IN COLOR.

CITY OF WINTER GARDEN - TRUST RESTRAINT TABLE

RESTRAINED FORCE MAIN PIPE TABLE

MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)

	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	19	25	30	34	44	52	60	70	80
45° BEND	8	10	12	14	18	21	25	30	34
22-1/2° BEND	4	5	6	7	9	10	12	14	16
11-1/4° BEND	2	3	4	5	6	7	8	9	10
PLUG, DEAD END OR BRANCH OF TEE	40	52	63	72	93	111	130	155	178
VALVE	20	25	32	36	47	56	78	116	89

RESTRAINED WATER AND RECLAIMED PIPE TABLE

MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)

	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	29	37	44	51	65	77	89	105	120
45° BEND	12	15	18	21	27	32	37	44	50
22-1/2° BEND	6	7	9	10	13	15	18	21	24
11-1/4° BEND	3	4	5	6	7	8	9	10	12
PLUG, DEAD END OR BRANCH OF TEE	59	77	93	108	138	166	194	231	265
VALVE	59	77	93	108	138	166	194	231	265

THRUST RESTRAINT NOTES:

1. THE TABLES INDICATE MINIMUM LENGTHS OF RESTRAINED JOINTS ON EACH SIDE OF FITTINGS AND CHANGES IN DIRECTION. WHERE PRACTICAL, FULL LENGTHS OF RESTRAINED PIPE SHALL BE LAID TO ACHIEVE THE REQUIRED MINIMUM RESTRAINT.
2. WHERE COMBINATIONS OF FITTINGS ARE USED, THE PIPING BETWEEN THE FITTINGS SHALL BE RESTRAINED. THE MINIMUM RESTRAINED LENGTH OF PIPE REQUIRED UPSTREAM AND DOWNSTREAM OF THE COMBINATION OF FITTINGS SHALL BE DETERMINED ON THE BASIS OF ONE EQUIVALENT FITTING (I.E., 2-45 DEGREE BENDS WILL BE CONSIDERED AS THOUGH A 90° BEND WERE LOCATED MIDWAY BETWEEN THE TWO 45° BENDS).
3. FOR PIPE THAT IS ENCASED IN POLYETHYLENE, RESTRAINED JOINTS MINIMUM LENGTHS SHALL BE INCREASED BY 50 PERCENT.
4. FOR FITTINGS OTHER THAN THOSE PRESENTED IN THE ABOVE TABLES, RESTRAINED JOINT LENGTHS SHALL BE DETERMINED IN ACCORDANCE WITH "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION. RESTRAINED JOINT LENGTHS FOR A GIVEN PRESSURE RANGE SHALL BE BASED ON THE MAXIMUM PRESSURE FOR THE TEST PRESSURE RANGE, SM (SAND SILT) SOIL, 3-FEET DEPTH, LAYING CONDITION NO. 3 AND FACTOR OF SAFETY OF 1.5.
5. IN-LINE VALVES: PROVIDE MECHANICAL RESTRAINT ON EACH SIDE OF THE VALVE.
6. ALL RECLAIMED WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 150 PSI. ALL WASTEWATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 100 PSI.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

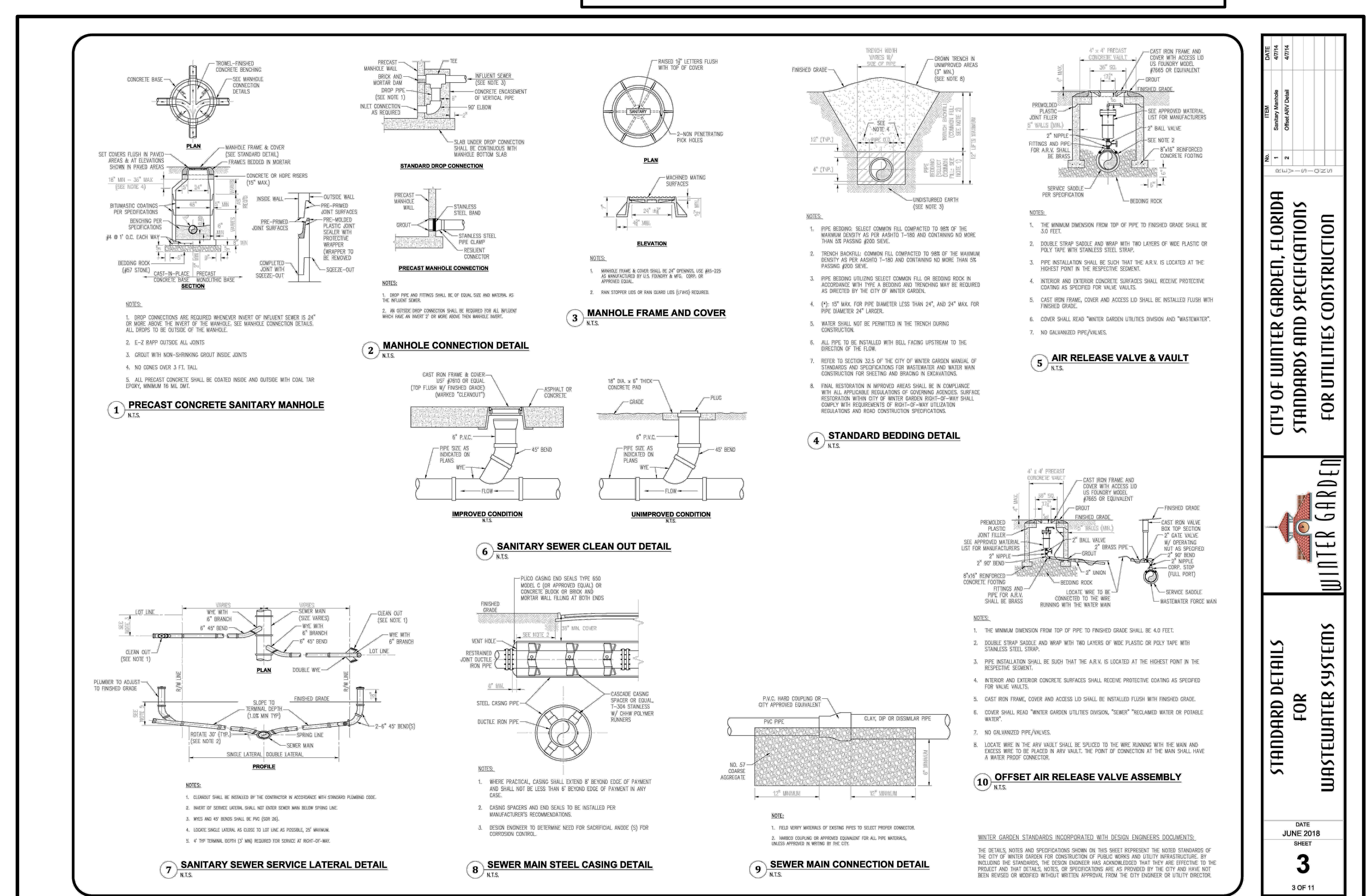
No.	ITEM	DATE
1	Revised General Notes	4/4/14
2	Revised Water & Reuse Notes	4/4/14

CITY OF WINTER GARDEN, FLORIDA STANDARDS AND SPECIFICATIONS FOR UTILITIES CONSTRUCTION

WINTER GARDEN

STANDARD DETAILS FOR UTILITIES SYSTEMS

DATE JUNE 2018 SHEET 1 1 OF 11



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LIC. # - 30920
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

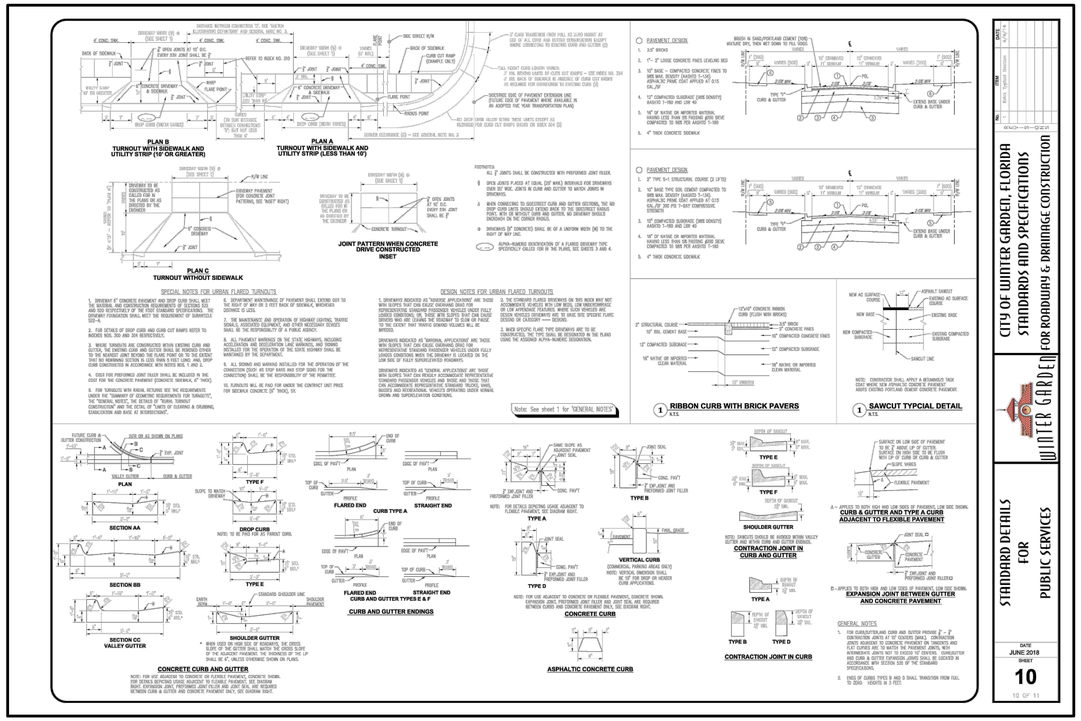
ENDEAVOR 2.0

MISC. WINTER GARDEN DETAILS

C-504

PLOT DATE: 8/19/2021 10:08:35 AM

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

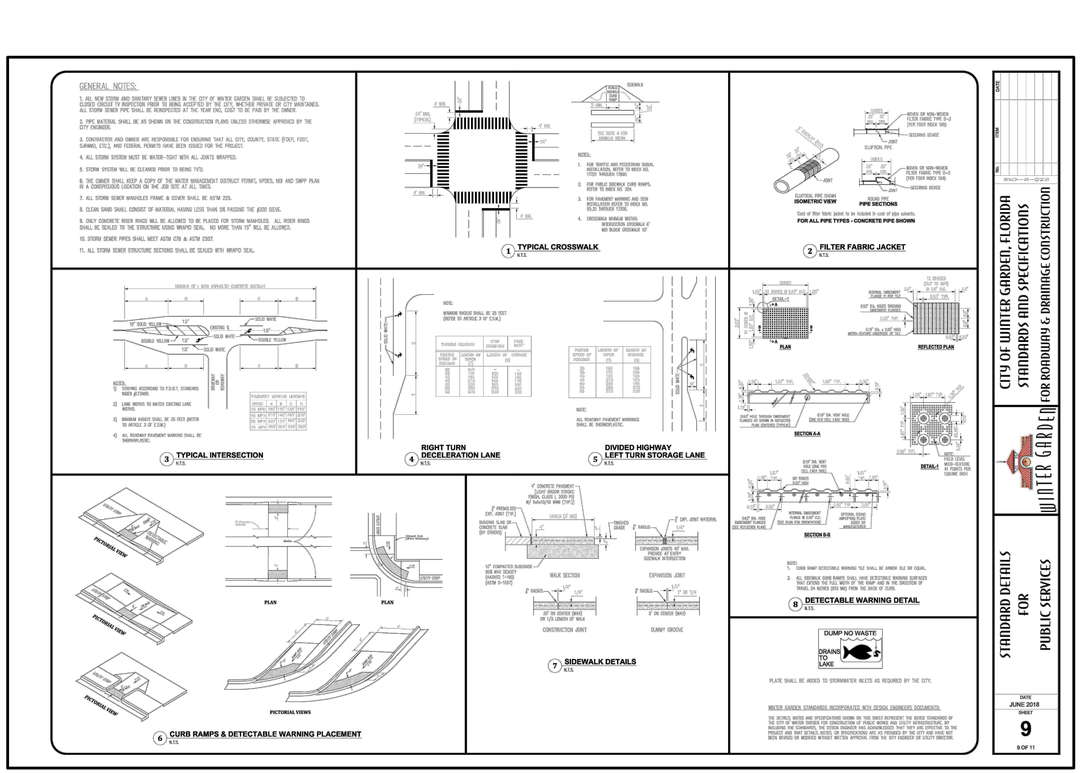


CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR ROADWAY & DRAINAGE CONSTRUCTION

WINTER GARDEN

STANDARD DETAILS FOR PUBLIC SERVICES

DATE: JUNE 2018
SHEET: 10
10 OF 11

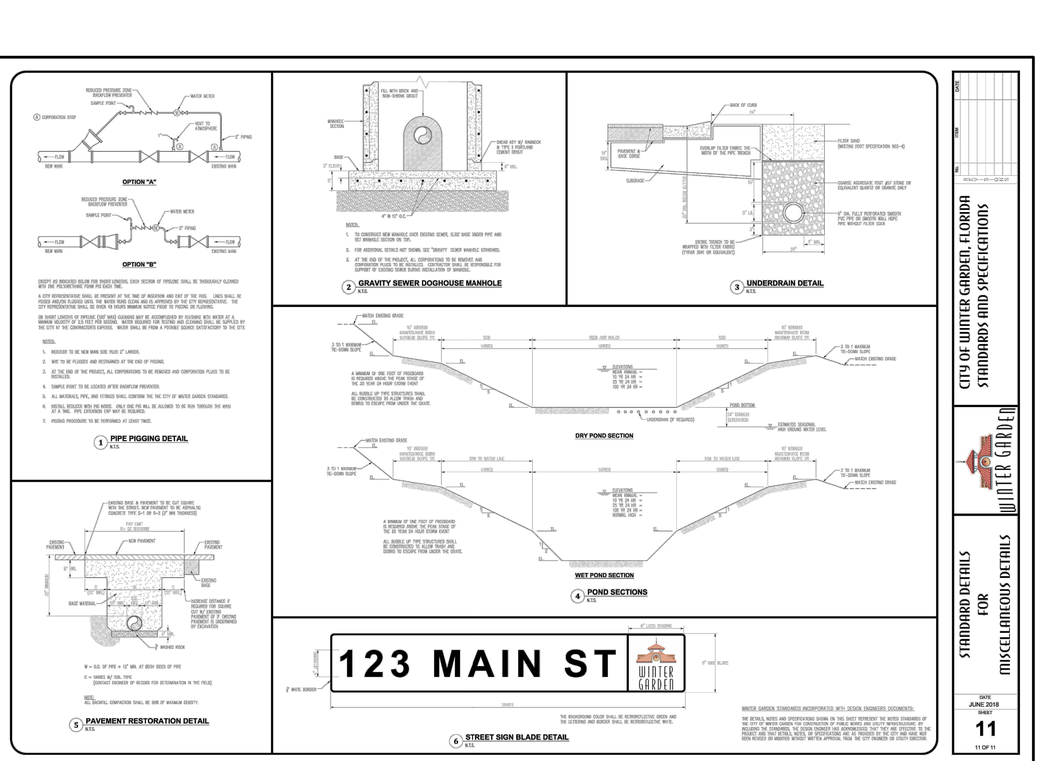


CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR MISCELLANEOUS DETAILS

WINTER GARDEN

STANDARD DETAILS FOR PUBLIC SERVICES

DATE: JUNE 2018
SHEET: 9
9 OF 11



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	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE: 08.19.21
BUILDING TYPE: END. 20
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BRAND DESIGNER:
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JN
DRAWN BY.: EA
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5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

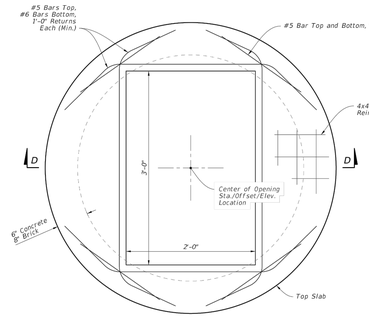
TACO BELL

ENDEAVOR 2.0

MISC. WINTER GARDEN DETAILS

C-505

PLOT DATE: 8/19/2021 10:08:35 AM



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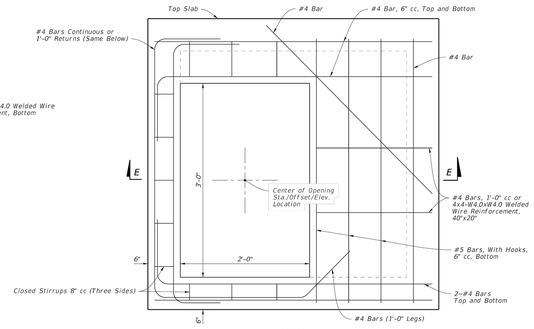

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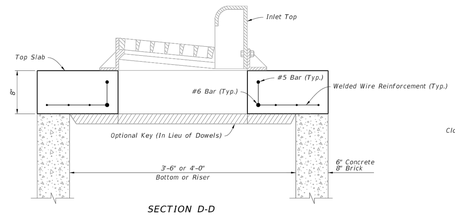
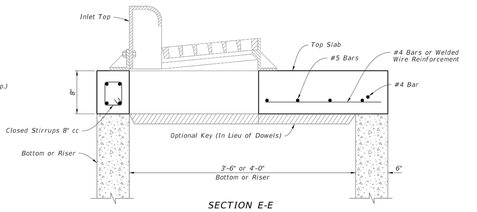


SECTION D-D



SECTION E-E

TOP SLAB DETAILS

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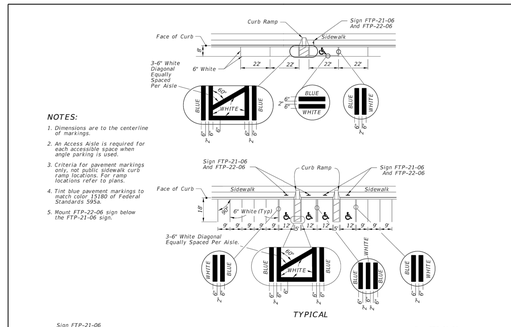
11/01/20					425-024	3 of 3



*FOR ACCESSIBLE MARKINGS - SEE ABOVE

	"DIMENSIONS"				
∠ θ	"A"	"B"	"C"	"D"	"E"
45°	19'-1"	12'-9"	7'-0"	27'-0"	17'-0"
60°	20'-1"	10'-5"	5'-9"	23'-2"	13'-10"

PAVEMENT MARKING FOR PARKING

Use of pavement symbol in accessible parking spaces is optional, when used the symbol shall be 3' or 5' high and white in color.

UNIVERSAL SYMBOL OF ACCESSIBILITY

LAST REVISION	DESCRIPTION:	FDOT	FY 2019-20 STANDARD PLANS	PAVEMENT MARKINGS	INDEX	SHEET
11/01/18					711-001	12 of 13

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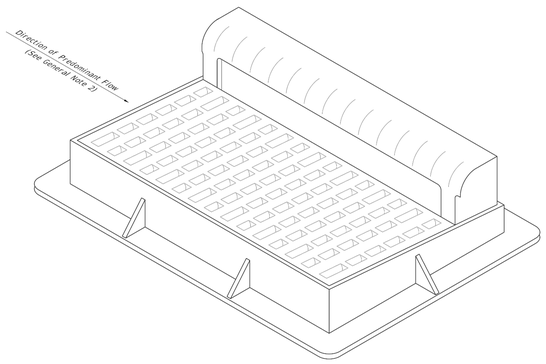
GENERAL NOTES:

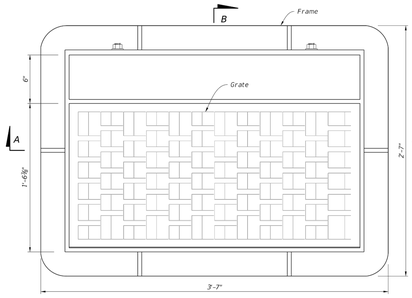
1. Work this Index with Index 425-001 and Index 425-010.
2. Orient grate with vanes directed toward predominant flow.
3. Provide 1½" minimum cover for steel in slab tops unless otherwise shown. Tops may be either cast-in-place or precast concrete.
4. Place top slab openings such that 2 edges of inlet frame will be located directly above bottom wall or riser wall for Alternate B applications..
5. When used on a structure with dimensions larger than those detailed on Sheet 3 and risers are not applied, construct the top slab using Index 425-010 with the slab opening adjusted to 24"x36". The "Special Top Slab" on Index 425-010 is not permitted.
6. Frame may be adjusted with one to six courses of brick.
7. Vaned grates with approximately equal openings that satisfy AASHTO HL-93 loading are permitted. Provide reversible (right or left) grates.



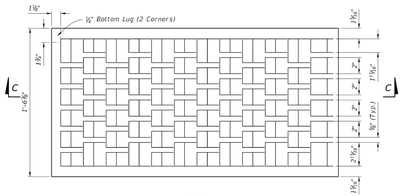
CURB INLET TOP TYPE 9

TABLE OF CONTENTS:

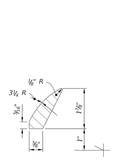
LAST REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPE 9	INDEX	SHEET
11/01/20					425-024	1 of 3



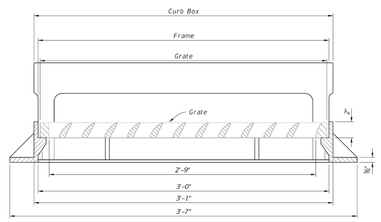
PLAN



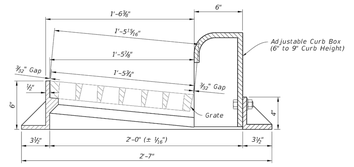
SECTON C-C



GRATE DETAILS



SECTION A-A



SECTION B-B

FRAME AND GRADE DETAILS

FRAME AND GRADE DETAILS

LAST REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPE 9	INDEX	SHEET
11/01/20					425-024	2 of 3

	DATE	REMARKS
	05/05/22	ISSUED FOR BID

CONTRACT DATE: 08.19.21
BUILDING TYPE: END. 20
PLAN VERSION: MARCH 2021
BRAND DESIGNER:
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JN
DRAWN BY.: EA
JOB NO.: 2021088.17

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FDOT CURB INLET DETAILS

C-506

PLOT DATE: 8/19/2021 10:08:35 AM

APPENDIX A — STANDARD DRAWINGS

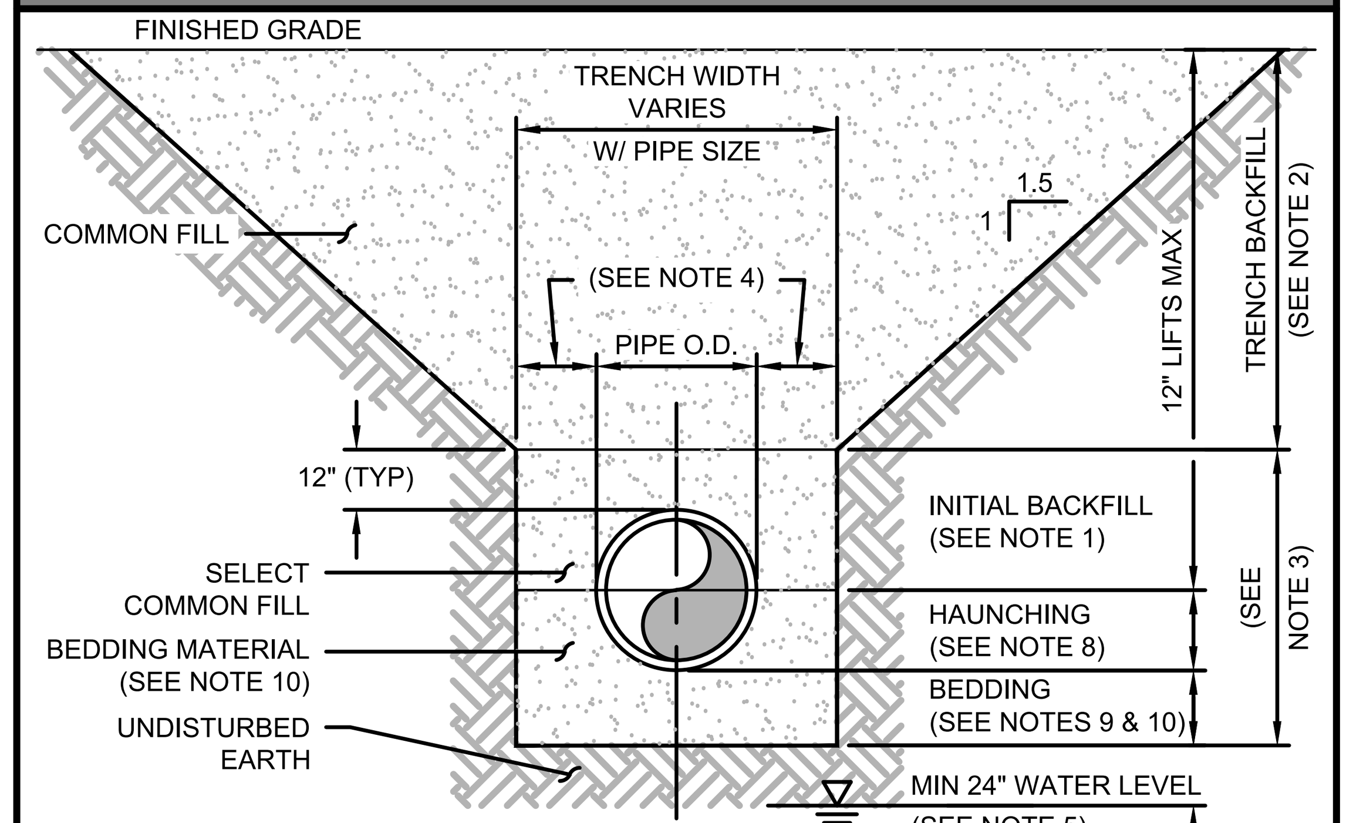
OCU GENERAL NOTES

1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF INCLUDING, BUT NOT LIMITED TO; WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, RECLAIMED WATER MAINS, ELECTRIC, GAS, CABLE TV, TELECOMMUNICATIONS, STORM WATER, FIBER OPTIC AND OTHER UNDERGROUND FACILITIES. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-836-2777) AND THE OCU INSPECTOR.
3. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTION SECTION, FIELD SERVICES DIVISION AT LEAST 10 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9798.
4. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR IN ACCORDANCE WITH TABLE 4110-1 "UTILITIES' SCHEDULE OF NOTIFICATIONS IN THIS MANUAL.
5. THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE STANDARDS, CONSTRUCTION SPECIFICATIONS, AND APPENDIX D IN THIS MANUAL.
6. ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO; WATER MAINS, FORCE MAINS, RECLAIMED WATER MAIN, SANITARY GRAVITY PIPES, STORM WATER PIPES, ELECTRIC, TELEPHONE, GAS, POLES AND STAYS, CABLE TV AND OTHER UTILITY FACILITIES WITHIN THE LIMITS OF THE PROJECT WILL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, CURBS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO; PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS. ALL ADJUSTMENTS SHALL BE MADE TO CURRENT STANDARDS.
8. ONLY OCU PERSONNEL SHALL OPERATE EXISTING OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING ANY NEWLY INSTALLED VALVE THAT HAS NOT BEEN CLEARED FOR USAGE BY FDEP AND OCU. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
9. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE AND WRITTEN NOTICE SHALL BE GIVEN TO AFFECTED CUSTOMERS AT LEAST 4 WORKING DAYS IN ADVANCE.
10. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND / OR HAULING OF WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS OR HAUL PLAN, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING AND TO THE INSPECTOR FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
11. ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
12. THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH AN APPROVED BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCE MAIN SHALL ALSO BE EQUIPPED WITH AN APPROVED BACKFLOW PREVENTER.
13. FOR PVC PIPE, NO JOINT DEFLECTION OR PIPE BENDING IS ALLOWED. ALIGNMENT CHANGE SHALL BE MADE ONLY WITH FITTINGS.
14. FOR DIP PIPE, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
15. FOR APPROVED PVC OR HDPE PIPE USED IN A HORIZONTAL DIRECTIONAL DRILL INSTALLATION, THE CURVATURE AND/OR DEFLECTION SHALL NOT EXCEED THE PARAMETERS ESTABLISHED IN THIS MANUAL.
16. ALL DAMAGE TO ORANGE COUNTY INFRASTRUCTURE, PIPELINES, AND ASSETS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH AN APPROVED METHOD BY THE COUNTY. IF THE REPAIR IS NOT PERFORMED IN A TIMELY MANNER, AS DETERMINED BY THE ORANGE COUNTY UTILITY INSPECTOR, ORANGE COUNTY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
17. THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL SANITARY SEWER OVERFLOWS (SSO) ASSOCIATED WITH THE WORK, REGARDLESS OF FAULT. THE CONTRACTOR WILL BE ASSESSED PENALTIES FOR ANY AND EACH SSO AS SPECIFIED IN SECTION 3110, GENERAL CONSTRUCTION REQUIREMENTS.

ORANGE COUNTY UTILITIES — FIGURE GN
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL — 10/10/2021

APPENDIX A — STANDARD DRAWINGS

BEDDING & TRENCHING - TYPE B

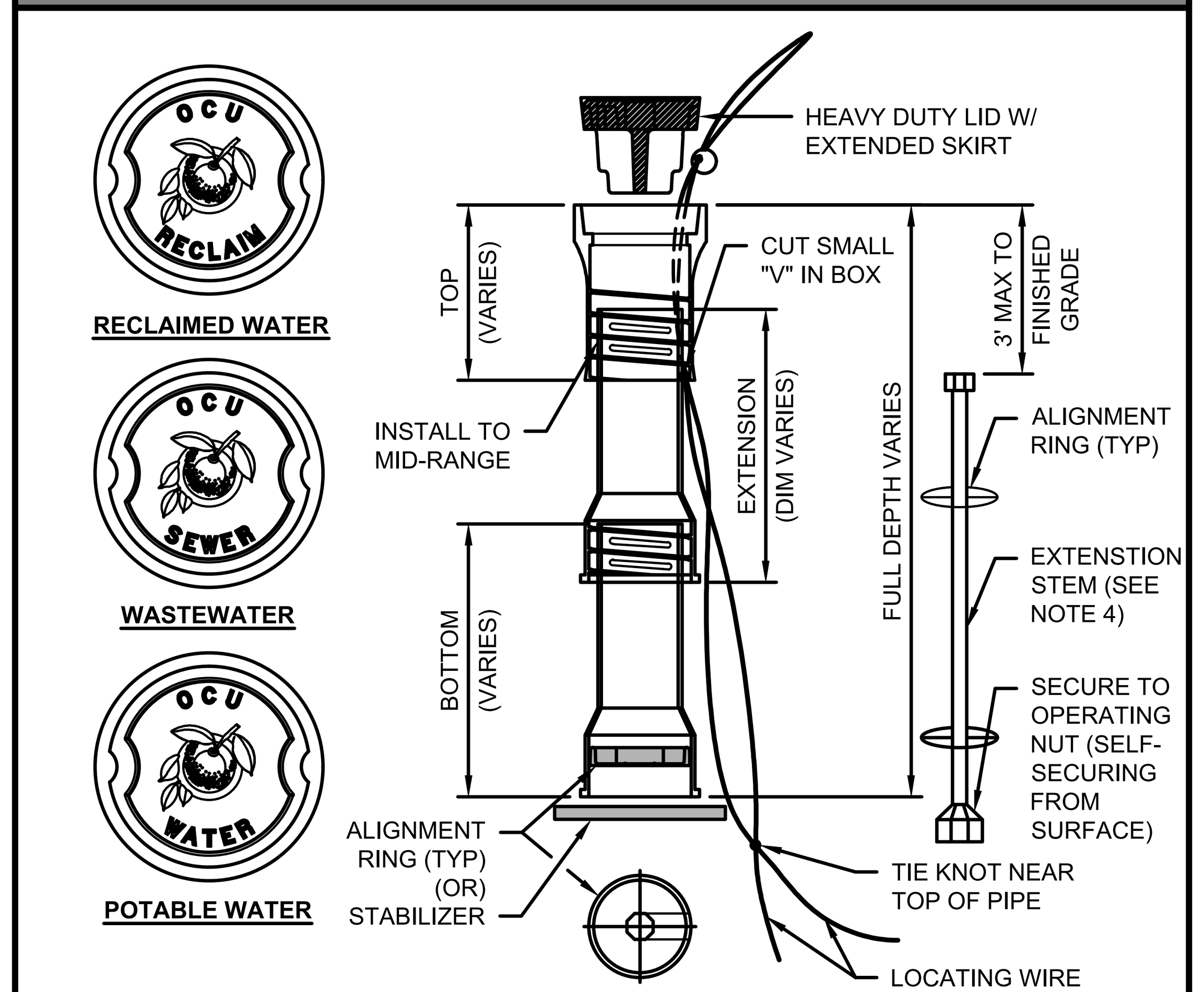


NOTES:
1. INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL IN ACCORDANCE WITH "TYPE B" BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
4. 15-IN MAX. (12-IN MIN.) FOR PIPE DIAMETER LESS THAN 24-IN AND 24-IN MAX (12-IN MIN) FOR PIPE DIAMETER 24-IN AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. DEWATERING AS REQUIRED.
6. ALL PIPE SHALL BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF R/W UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
8. FOR GRAVITY SEWER, THE FIRST LIFT SHALL BE PLACED TO THE SPRING LINE OF THE PIPE AND COMPACTED BY HAND TAMP.
9. BEDDING DEPTH SHALL BE 4-IN MINIMUM FOR PIPE DIAMETER UP TO 12-IN AND 6-IN MINIMUM FOR PIPE DIAMETER 16-IN AND LARGER.
10. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF REQUIRED BEDDING MATERIAL BELOW THE PIPE. UTILITIES SHALL DETERMINE REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION IN THE FIELD.

ORANGE COUNTY UTILITIES — FIGURE A102
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL — 10/10/2021

APPENDIX A — STANDARD DRAWINGS

TYPICAL VALVE BOX & COVER



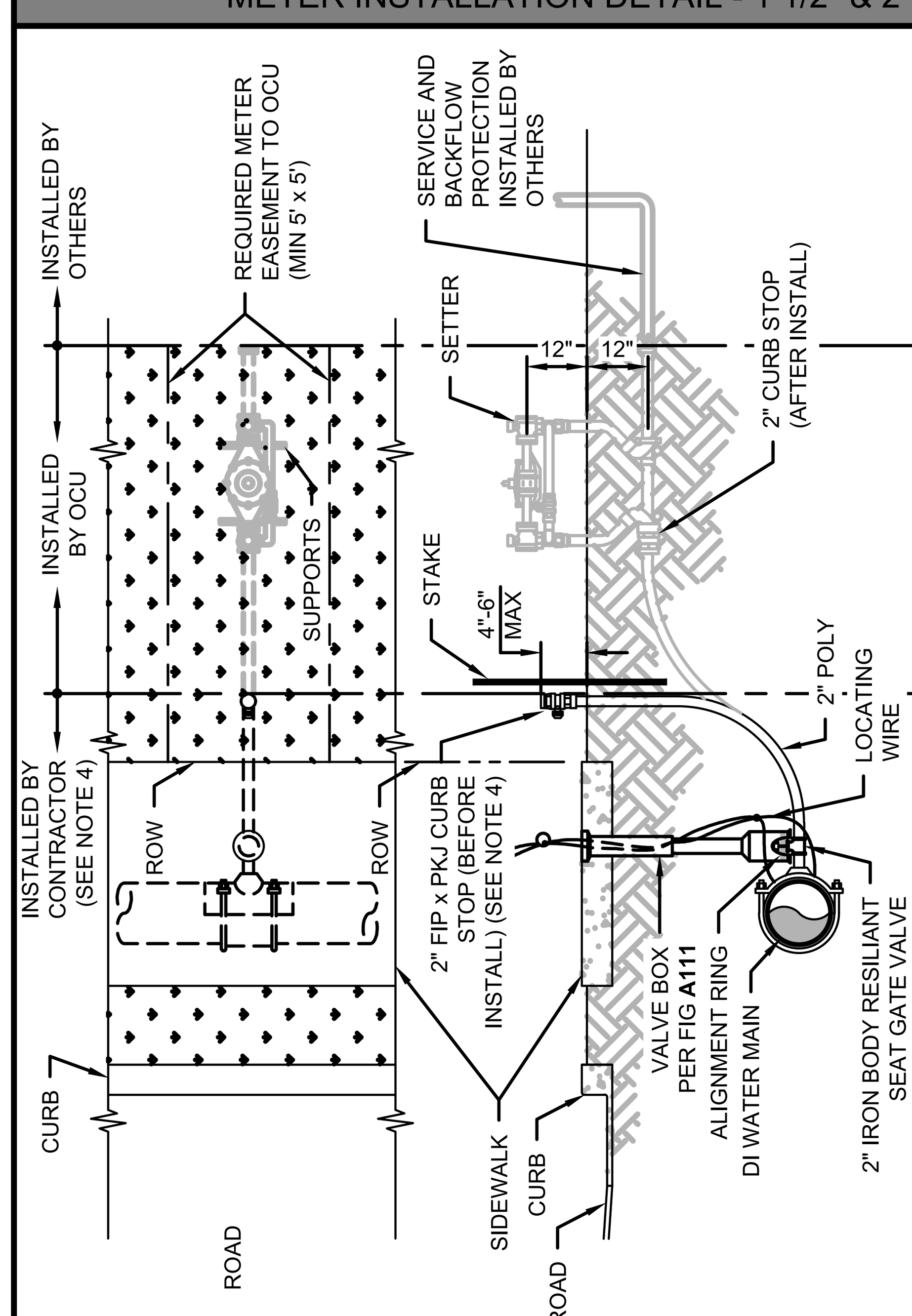
NOTES:
1. HEAVY DUTY VALVE BOX LIDS ARE REQUIRED FOR ALL VALVE BOXES.
2. TOP SECTION SHALL BE INSTALLED AT MID-RANGE FOR FUTURE ADJUSTMENT.
3. HEAVY DUTY VALVE BOX LID SHALL HAVE A 5-IN MIN DEPTH AND WEIGH A MINIMUM OF 22-LBS. LID SHALL HAVE POWDER COATING PAINT AT A MIN OF 3 MILL.
4. EXTENSION STEMS AND ALIGNMENT RING/WALL BRACKETS SHALL BE PROVIDED ON ALL BURIED VALVES SO THAT THE OPERATING NUT SHALL BE NO MORE THAN 36-IN BELOW FINISHED GRADE. MATERIAL SHALL BE MINIMUM 304 SST.
5. ADD ADD'L SCREW EXTENSION AS REQUIRED AFTER SCREW EXTENSION EXCEEDS 24-IN.
6. STACKING OF VALVE BOX BOTTOM SECTIONS IS NOT PERMITTED.
7. VALVE BOX SHALL REST ON BEDDING ROCK, NOT ON VALVE, AND SHALL BE CENTERED ON OPERATING NUT.

ORANGE COUNTY UTILITIES — FIGURE A111
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL — 10/10/2021

This document 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. Any reliance on this stamp 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.

APPENDIX A — STANDARD DRAWINGS

METER INSTALLATION DETAIL - 1 1/2" & 2"

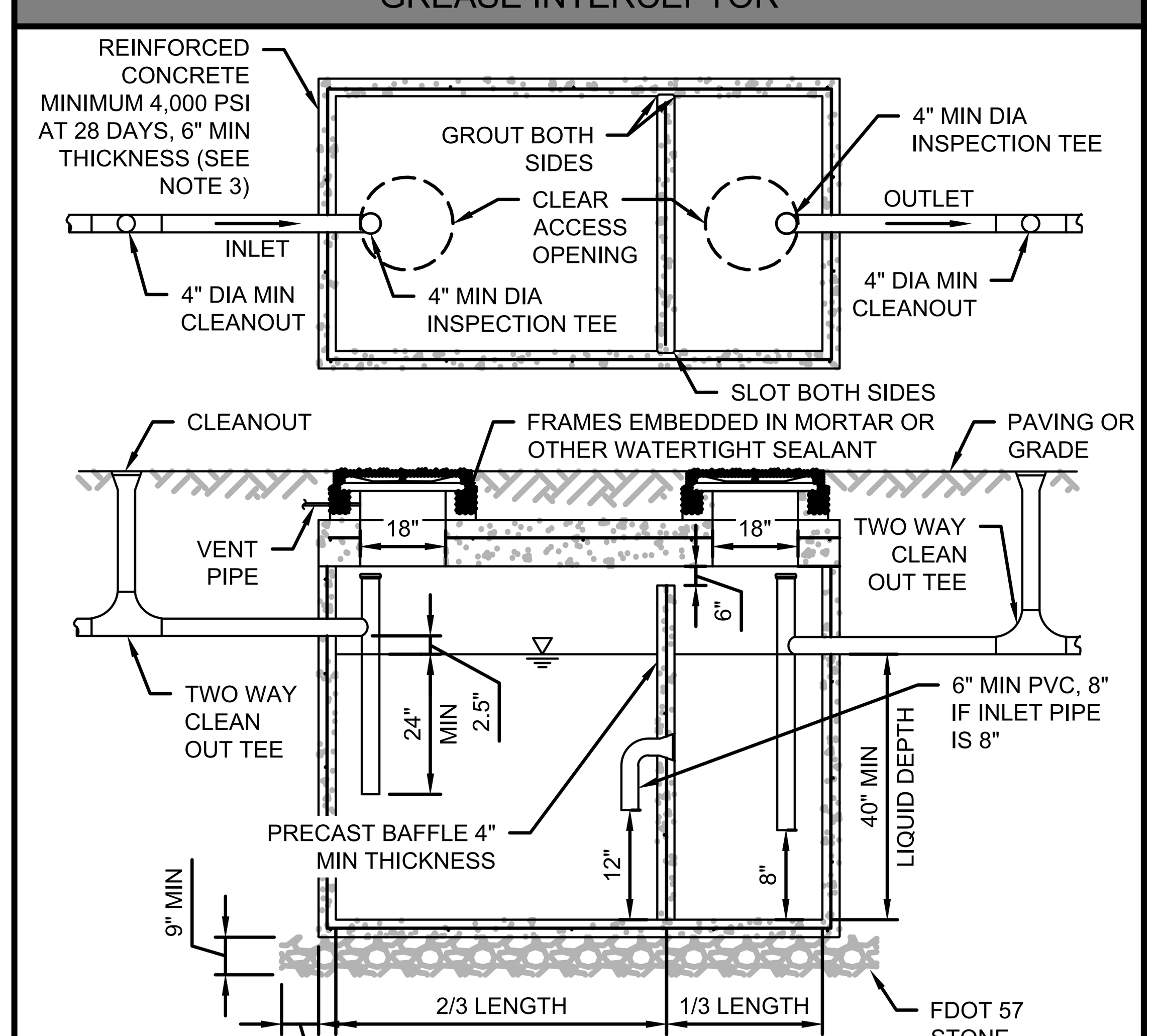


NOTES:
1. 2-IN METER SETTER USED FOR 1.5-IN & 2-IN TURBINES AND DISPLACEMENT METERS.
2. BYPASS USED ON DOMESTIC METERS ONLY. WATER AND RECLAIMED WATER IRRIGATION WILL NOT HAVE BYPASS.
3. TIE LOCATING WIRE INTO EXISTING WIRE WITH WATERPROOF WIRE NUT.
4. CONTRACTOR SHALL USE A 2-IN x 2-IN SQUARE STAKE RISING 24-IN ABOVE THE GROUND AND INSTALL 2-IN POLY AND CURB STOP STUBBED UP 4-IN TO 6-IN. TOP OF STAKE SHALL BE PAINTED THE COLOR OF THE UTILITY SERVICE AND LABELED WITH THE LOT NUMBER(S) IT SERVES.

ORANGE COUNTY UTILITIES — FIGURE A130
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL — 10/10/2021

APPENDIX A — STANDARD DRAWINGS

GREASE INTERCEPTOR

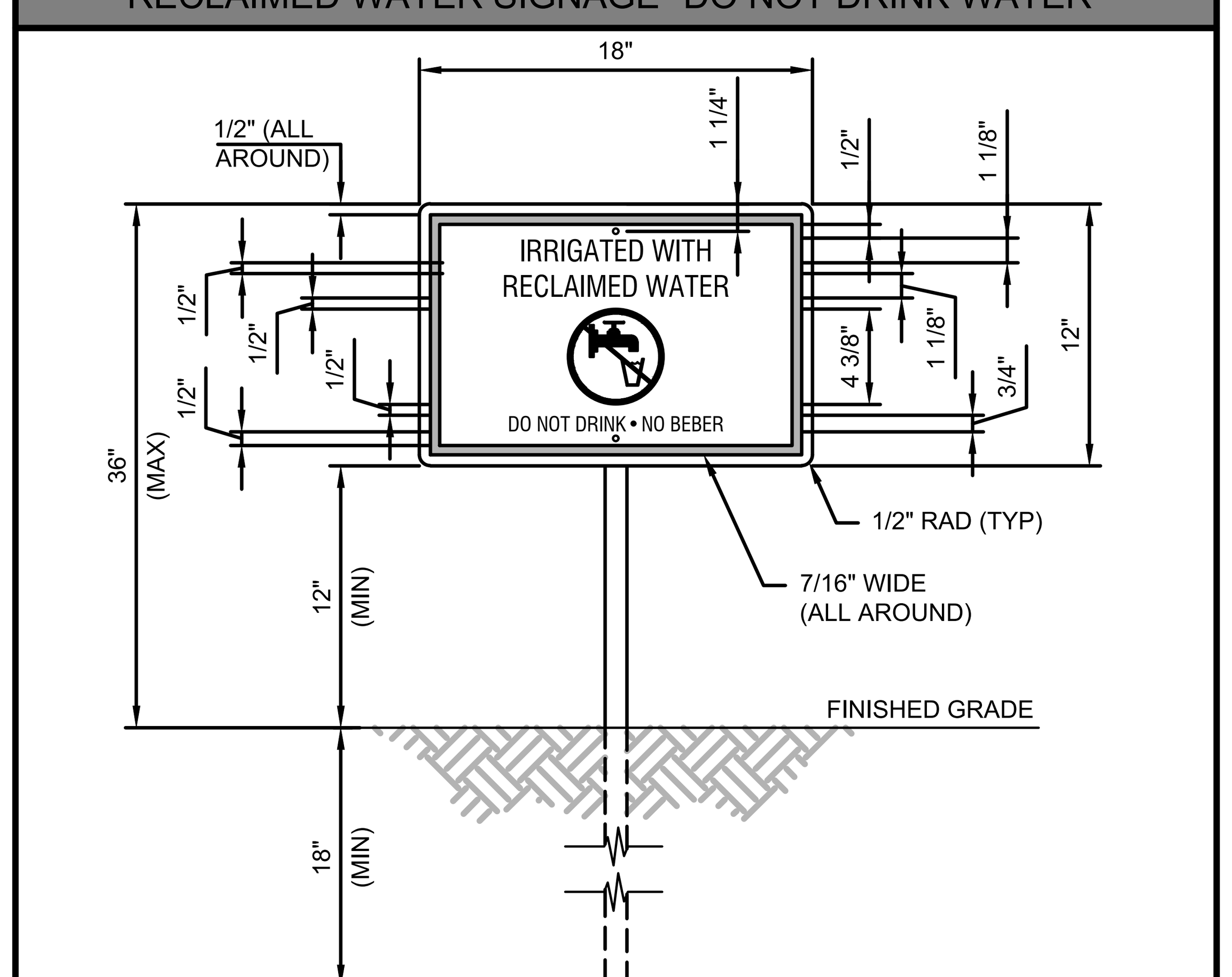


NOTES:
1. SPECIFIC DESIGN DETAILS MUST IN ALL ASPECTS MEET APPLICABLE FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
2. SIZE GREASE INTERCEPTOR PER OCU MANUAL, SECTION **2310**. MINIMUM SIZE 750 GAL; MAXIMUM SIZE 1250 GAL.
3. INTERCEPTORS SHALL BE MONOLITHIC, WATER AND GAS TIGHT. SECTIONAL TANKS SHALL NOT BE PERMITTED.
4. ALL FIXTURES LOCATED IN FOOD AND BEVERAGE PREPARATION AREAS SHALL BE ROUTED THOUGH GREASE INTERCEPTOR. RESTROOM WASTE SHALL NOT BE ROUTED THROUGH INTERCEPTOR.
5. BAFFLE REQUIRED; ALTERNATIVE DESIGNS ARE ACCEPTABLE. DESIGN MUST MEET FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
6. LOADS: H-20 TRUCK WHEELS WITH 30% IMPACT PER AASHTO. TRAFFIC BEARING FRAME AND COVER TO MEET FDOT STANDARDS IF APPLICABLE.

ORANGE COUNTY UTILITIES — FIGURE A308-1
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL — 10/10/2021

APPENDIX A — STANDARD DRAWINGS

RECLAIMED WATER SIGNAGE "DO NOT DRINK WATER"



NOTES:
1. SIGN TO BE PROVIDED BY OCU.
2. HEIGHT OF SIGN WILL DEPEND ON LOCATION AND SURROUNDING LANDSCAPE PLANT TYPES. IN ALL CASES, THE SIGN SHALL BE VISIBLE TO THE PUBLIC.
3. BACKGROUND SHALL BE WHITE, LETTERS SHALL BE BLACK (HELVETICA, SWISS 721 COREL OR ACCEPTABLE EQUAL) AND BORDER SHALL BE PANTONE PURPLE 522C.
4. ENGINEERING GRADE REFLECTIVE MATERIALS SHALL BE USED.
5. SIGN MATERIAL SHALL BE 0.040 GAUGE METAL.
6. POST SHALL BE 2.375-IN OD ALUMINUM PIPE, HOT DIP GALVANIZED PER ASTM A-123. POST TO BE PROVIDED BY CUSTOMER.
7. MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
8. SIGNS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH CHAPTER 62-610 "ACCESS CONTROL AND ADVISORY SIGNS", FAC, THE COUNTY APPROVED ENGINEERING PLANS AND / OR AS APPROVED BY THE UTILITIES.

ORANGE COUNTY UTILITIES — FIGURE A501
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL — 10/10/2021

GPD GROUP, INC.®
LIC. # - 30920
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

	DATE	REMARKS
02	05/04/22	OCU COMMENTS
	05/05/22	ISSUED FOR BID

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JN
DRAWN BY.:	EA
JOB NO.:	2021088.17

TACO BELL

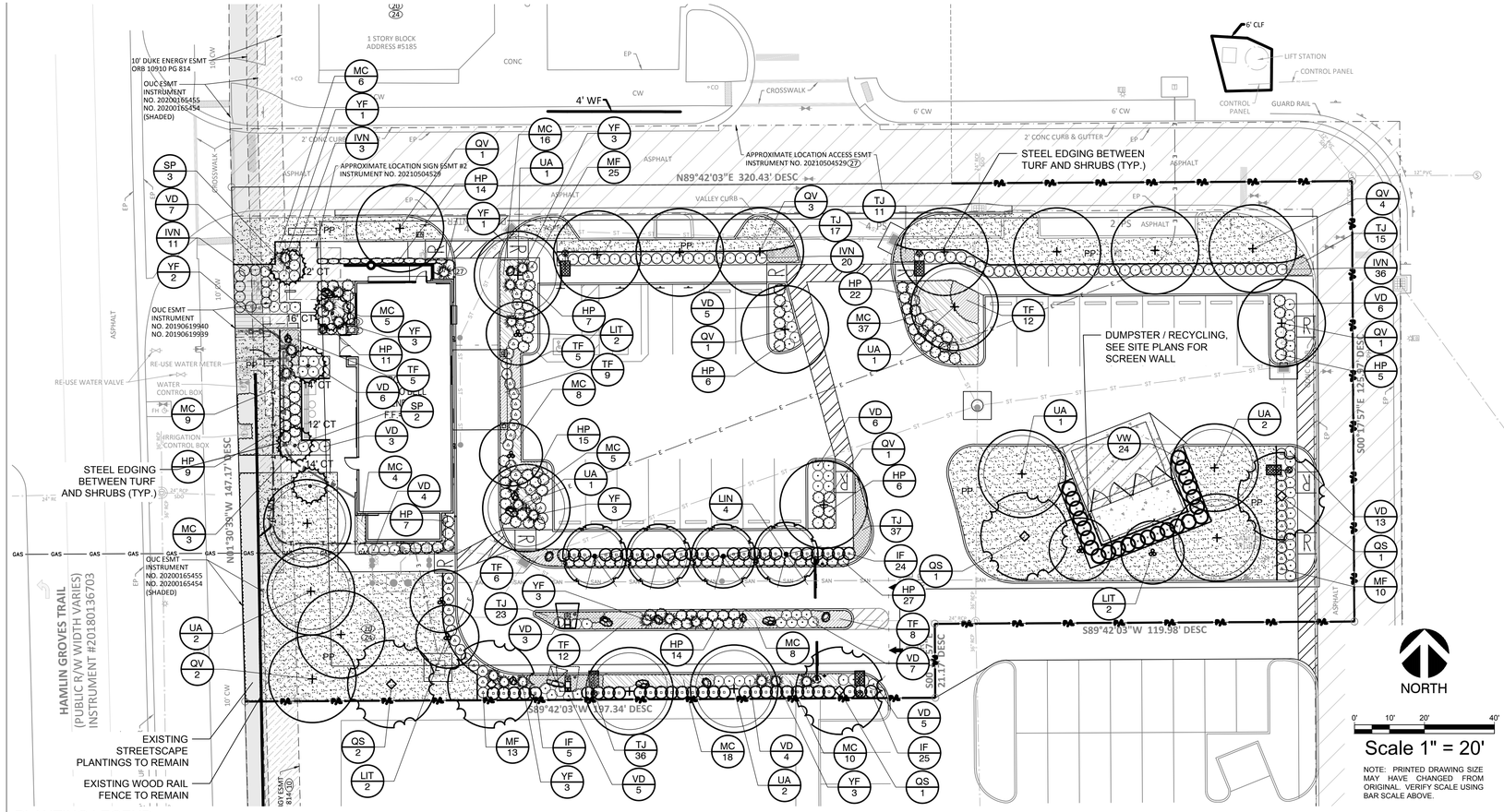
5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
ORANGE COUNTY UTILITIES DETAILS & SPECIFICATIONS

C-507

PLOT DATE: 8/19/2021 10:08:35 AM

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



NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

LANDSCAPE CALCULATIONS

GROSS SITE AREA:	44,378 SF
SUBJECT PARCEL ZONING:	P-D
OPEN SPACE REQUIRED:	8,876 SF (20% OF SITE AREA)
OPEN SPACE PROVIDED:	13,732 SF (30.9% OF SITE AREA)
LANDSCAPE AREA:	13,732 SF
MAXIMUM TURF AREA ALLOWED:	8,239 SF (60% OF LANDSCAPE AREA)
NEW TURF AREA PROVIDED:	0 SF (0% OF LANDSCAPE AREA)

VEHICULAR USE AREA PERIMETER LANDSCAPING

ADJACENT TO HAMLIN GROVES TRAIL - 46 LF	
TREES REQUIRED:	1 SHADE TREE (1 TREE / 40 LF)
TREES PROVIDED:	1 SHADE TREE
CONTINUOUS HEDGE:	PROVIDED
ADJACENT TO PRIVATE DRIVE - 246 LF	
TREES REQUIRED:	6 SHADE TREES (1 TREE / 40 LF)
TREES PROVIDED:	6 SHADE TREES
CONTINUOUS HEDGE:	PROVIDED
ADJACENT TO EAST - P-D ZONING - 126 LF	
TREES REQUIRED:	3 SHADE TREES (1 TREE / 50 LF)
TREES PROVIDED:	0 SHADE TREES*
ADJACENT TO SOUTH - P-D ZONING - 258 LF	
TREES REQUIRED:	5 SHADE TREES (1 TREE / 50 LF)
TREES PROVIDED:	3 SHADE TREES*

INTERIOR LANDSCAPING

GROSS VEHICULAR USE AREA:	23,836 SF
NET VEHICULAR USE AREA:	20,908 SF (VUA EXCEPT PARKING SPACES ADJACENT TO PERIMETER)
LANDSCAPE AREA REQUIRED:	2,091 SF (10% OF NET VUA)
LANDSCAPE AREA PROVIDED:	5,604 SF
TREES REQUIRED:	21 TREES (1 TREE / 100 SF OF REQUIRED LSA)
TREES PROVIDED:	21 TREES; INCLUDING 1 TREE PER LANDSCAPE ISLAND

PRIMARY BUILDING FACADE LANDSCAPING

MINIMUM OF 50% OF LSA TO REACH 30" HT - PROVIDED	
TREES REQUIRED:	5 PALMS (1 / 15 LF OF FACADE; 75 LF TOTAL)
TREES PROVIDED:	5 PALMS

BUFFER YARD LANDSCAPING

ADJACENT TO HAMLIN GROVES TRAIL - 147 LF	
TREES REQUIRED:	4 SHADE TREES (1 TREE / 40 LF)
TREES PROVIDED:	4 SHADE TREES
ADJACENT TO NORTH - P-D ZONING - 321 LF	
TREES REQUIRED:	8 SHADE TREES (1 TREE / 40 LF)
TREES PROVIDED:	8 SHADE TREES
ADJACENT TO EAST - P-D ZONING - 126 LF	
TREES REQUIRED:	3 SHADE TREES (1 TREE / 40 LF)
TREES PROVIDED:	0 SHADE TREES*
ADJACENT TO SOUTH - P-D ZONING - 318 LF	
TREES REQUIRED:	8 SHADE TREES (1 TREE / 40 LF)
TREES PROVIDED:	5 SHADE TREES*

** - REQUIRED PERIMETER AND BUFFERYARD TREES ARE NOT PROVIDED ALONG PORTIONS OF THE EAST AND SOUTH PROPERTY LINES DUE TO INSUFFICIENT PLANTING SPACE. THESE LOT LINES ARE ROUTED THROUGH SHARED PAVED ACCESSWAYS.*

PLANTING LEGEND

SYMBOL	BOTANIC NAME	COMMON NAME	MIN. SIZE	SPACING	QUANTITY	NATIVE	DROUGHT TOLERANT
TREES							
LIN	Lagerstroemia indica 'Natchez'	Crape Myrtle - White	8' ht. x 3' sprd., 2" cal. min., STD	per plan	4	NO	YES
LIT	Lagerstroemia indica 'Tuscarora'	Crape Myrtle - Red	8' ht. x 3' sprd., 2" cal. min., MT	per plan	6	NO	YES
QS	Quercus shumardii	Shumard Oak	10' ht. x 4' sprd., 3" cal. min.	per plan	5	YES	YES
QV	Quercus virginiana	Live Oak	10' ht. x 4' sprd., 3" cal. min.	per plan	13	YES	YES
UA	Ulmus alata	Winged Elm	10' ht. x 4' sprd., 3" cal. min.	per plan	10	YES	YES
NOTE: ALL TREES SHALL BE CONTAINER-GROWN, CONTAINER SIZE AS APPROPRIATE FOR THE CALIPER SPECIFIED. SEE SPECIFICATIONS FOR PROPER ROOT QUALITY.							
PALMS							
SP	Sabal palmetto	Cabbage Palm	see plan for c.t. hts.	per plan	5	NO	YES
SHRUBS / GROUNDCOVERS / ORNAMENTAL GRASSES							
HP	Hamelia patens 'Firefly'	Firefly Firebush	3 Gal. & 18" ht. min., Full	36" o.c.	143	YES	YES
IF	Illicium floridanum	Florida Anise	3 Gal. & 24" ht. min., Full	36" o.c.	54	YES	YES
IVN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	3 Gal. & 24" ht. min., Full	36" o.c.	70	YES	YES
MC	Muhlenbergia capillaris	Muhly Grass	3 Gal. & 18" ht. min., Full	30" o.c.	129	YES	YES
MF	Myrcinathes fragrans 'Compacta'	Dwarf Simpson's Stopper	3 Gal. & 30" ht. min., Full	30" o.c.	48	YES	YES
TF	Tripsacum floridanum	Florida Gamagrass	3 Gal. & 18" ht. min., Full	18" o.c.	57	YES	YES
TJ	Trachelospermum jasminoides	Star Jasmine	1 Gal., 3 stems min., 15"-18"	18" o.c.	139	NO	YES
VD	Viburnum obovatum 'Densa'	Dwarf Viburnum	3 Gal. & 24" ht. min., Full	36" o.c.	74	YES	YES
VW	Viburnum obovatum	Walters Viburnum	7 Gal. & 36" ht. min., Full	36" o.c.	24	YES	YES
YF	Yucca filamentosa 'Adam's Needle'	Adam's Needle Yucca	5 Gal.	per plan	22	YES	YES
TURF							
PP	Arachis glabrata	Perennial Peanut	- - -	- - -	- - -	- - -	- - -

BOULDERS

A (47) 42"-48" DIA. FLORIDA FIELDSTONE AND/OR CAPROCK
B (20) 24"-30" DIA. FLORIDA FIELDSTONE AND/OR CAPROCK
C (8) 12"-18" DIA. FLORIDA FIELDSTONE AND/OR CAPROCK

BURY BOULDERS 1/3 TO 1/2 OF HEIGHT (TYP.)

GENERAL GRADING AND PLANTING NOTES

1. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER ACCORDING TO GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION AT TIME OF INSTALLATION.
2. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
4. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
   a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
   b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
   c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED **BASED ON A SOIL TEST** PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
   d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
5. ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
   a. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
   b. **NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.** IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
   c. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
6. THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
7. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED OR TRANSPLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PUBLIC PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 2" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED) IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.

CYPRESS MULCH SHALL NOT BE USED.

MULCH, PER SEC. 24-6(B)(4), SHALL BE ORGANIC AND SHALL NOT BE PLACED ON TOP OF THE ROOT BALL OR PLACED AGAINST THE TRUNK. MULCH SHALL BE APPLIED A MINIMUM OF 12" TO 18" FROM THE TRUNK OF ANY SIZED TREE. MATERIALS SUCH AS ROCK AND SHELLS THAT DO NOT BIODEGRADE, ARE NOT DEEMED ACCEPTABLE. FAILURE TO INSTALL MULCH (AND TYPE OF MULCH) AS PROVIDED IN THE SPECIFICATION ABOVE MAY RESULT IN A FAILED INSPECTION. SEE HTTP://HORT.IFAS.UFL.EDU/WOODY/OVER-MULCHING.SHTML FOR MORE INFORMATION.

IRRIGATION SYSTEM REQUIREMENTS

THE IRRIGATION SYSTEM SHALL BE DESIGNED TO CORRELATE TO THE ORGANIZATION OF PLANTS INTO ZONES AS DESCRIBED IN SECTION 24-6. ALL IRRIGATION SYSTEMS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN CHAPTER 37 OF THE CODE AND SHALL BE CERTIFIED BY THE LICENSED CONTRACTOR OR LICENSED PROFESSIONAL TO BE IN COMPLIANCE WITH CHAPTER 37 IRRIGATION SYSTEM REQUIREMENTS IN DESIGN. THE SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH THE CHAPTER 37 IRRIGATION SYSTEM REQUIREMENTS.

CERTIFICATION OF CODE COMPLIANCE

EVERY EFFORT HAS BEEN TAKEN IN DESIGNING THIS LANDSCAPE PLAN TO COMPLY WITH THE REQUIREMENTS OF CHAPTER 24 OF THE ORANGE COUNTY, FLORIDA LDC.

PSP CALCULATIONS:

THIS DEVELOPMENT RESIDES WITHIN THE HAMLIN EAST PROTON THERAPY CENTER PSP, PSP-17-08-253.

TOTAL INCHES TO BE MITIGATED (OVERALL PSP) = 178 INCHES
TOTAL INCHES MITIGATION PROVIDED (ON PREVIOUS DEVELOPMENT) = 221 INCHES
TOTAL INCHES REMOVED THIS DEVELOPMENT = 0 INCHES
TOTAL INCHES PROVIDED THIS DEVELOPMENT = 104 INCHES

ANY TREES PROPOSED TO BE PRESERVED ON THIS PLAN THAT ARE SUBSEQUENTLY REMOVED, SHALL BE CONSIDERED A VIOLATION, AND AS SUCH SHALL BE REPLACED IN INCHES ON SITE AT A 2:1 RATIO FOR NON-SPECIMEN TREES AND AT A RATIO OF 4:1 FOR SPECIMEN TREES. AS AN ALTERNATIVE, THE VIOLATION MAY BE SATISFIED VIA PAYMENT INTO THE COUNTY TREE FUND OR BY SOME COMBINATION OF PAYMENT AND ONSITE PLANTING. THE CURRENT FEE, AS MAY BE AMENDED BY THE ORANGE COUNTY BCC, IS $106.00 PER INCH. IN ALL CIRCUMSTANCES, MITIGATION MUST BE SATISFIED PRIOR TO THE RELEASE OF THE LANDSCAPE/ZONING HOLD(S).

ALL EXISTING INVASIVE EXOTIC PLANTS, AS LISTED ON THE FLORIDA EXOTIC PEST PLANT COUNCIL'S INVASIVE PLANT SPECIES LIST, SHALL BE REMOVED

EVERGREEN DESIGN GROUP
(800) 680-6630
2255 Glades Road, Suite 324A
Boca Raton, FL 33431
www.EvergreenDesignGroup.com
LA #6666710

	DATE	REMARKS
	05/05/22	Issued for Bid

CONTRACT DATE:	08.19.21
BUILDING TYPE:	END. 20
PLAN VERSION:	DEC. 2021
BRAND DESIGNER:	
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	RM
DRAWN BY.:	KB
JOB NO.:	

TACO BELL

16007 NEW INDEPENDANCE PKWY
WINTER GARDEN, FL 34787

ENDEAVOR 2.0

LANDSCAPE PLANTING

LP-1

PLOT DATE: 8/19/2021 10:08:35 AM

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

PLANTING SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR
1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.

B. SCOPE OF WORK
1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

PRODUCTS

A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.

B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
1. FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS.
2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
3. TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING TWO INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING TWO INCHES IN CALIPER.
7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL. WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.

C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.

D. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN ½ INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.

E. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.

F. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).

G. PALM MAINTENANCE SPIKES: AS MANUFACTURED BY THE LUTZ CORP, (800) 203-7740, OR APPROVED EQUAL.

H. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.

I. TREE STAKING AND GUYING
1. STAKES: 6' LONG GREEN METAL T-POSTS.
2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
3. STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.

J. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.

K. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

METHODS

A. SOIL PREPARATION
1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
2. SOIL TESTING:
   a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
   b. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
   c. THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
   d. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
4. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
   a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
   i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
   ii. PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
   iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
   b. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
   i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
   ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
   iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
   iv. IRON SULPHATE - 2 LBS. PER CU. YD.
5. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
   a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
   b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
   c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
   d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
6. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

B. SUBMITTALS
1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.

C. GENERAL PLANTING
1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
3. TRENCHING NEAR EXISTING TREES:
   a. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
   b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
   c. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
   d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

C. TREE PLANTING
1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
6. TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
   a. 1"-2" TREES — TWO STAKES PER TREE
   b. 2-1/2"-4" TREES — THREE STAKES PER TREE
   c. TREES OVER 4" CALIPER — GUY AS NEEDED
   d. MULTI-TRUNK TREES — THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).

D. PALM PLANTING
1. PALM PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL.
2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE PALM. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
3. USE BANK SAND MIXED WITH THE EXISTING SOIL (75% BANK SAND AND 25% EXISTING SOIL) AS THE BACKFILL. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.
4. BACKFILL AROUND THE ROOTBALL WITH AMENDED SOIL TO TWO-THIRDS OF THE DEPTH OF THE ROOTBALL AND APPLY THE PALM MAINTENANCE SPIKES PER MANUFACTURER'S DIRECTIONS. BACKFILL THE REST OF THE PLANTING HOLE, TAMPING FIRMLY TO REMOVE AIR POCKETS
5. BRACE THE PALMS USING PALM BRACES (PER PLANTING DETAILS). DO NOT SECURE BRACES TO THE PALM ITSELF.
6. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS).

E. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
2. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.

F. SODDING
1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.

G. MULCH
1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.

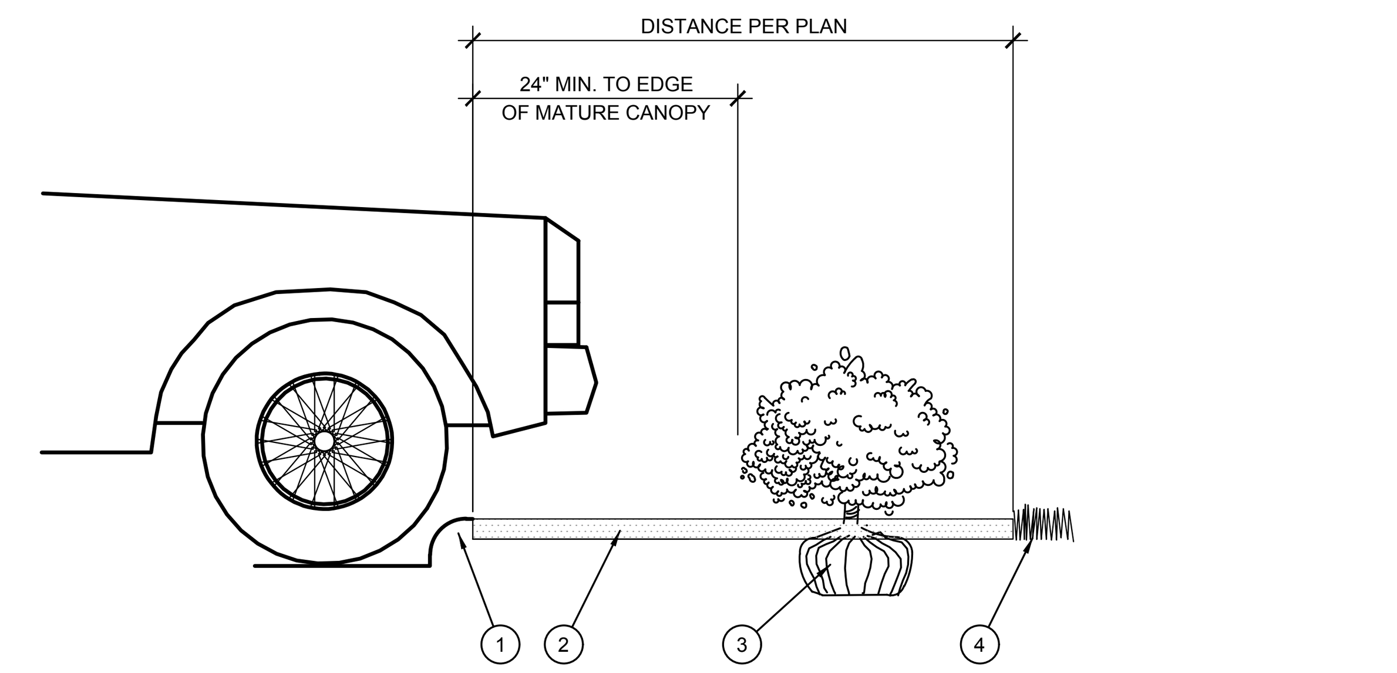
H. CLEAN UP
1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
2. LEGALLY DISPOSE ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.

I. INSPECTION AND ACCEPTANCE
1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
2. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.

J. LANDSCAPE MAINTENANCE
1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, TREATING FOR INSECTS AND DISEASES,REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
2. SHOULD SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
3. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
   a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
   b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
   c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.

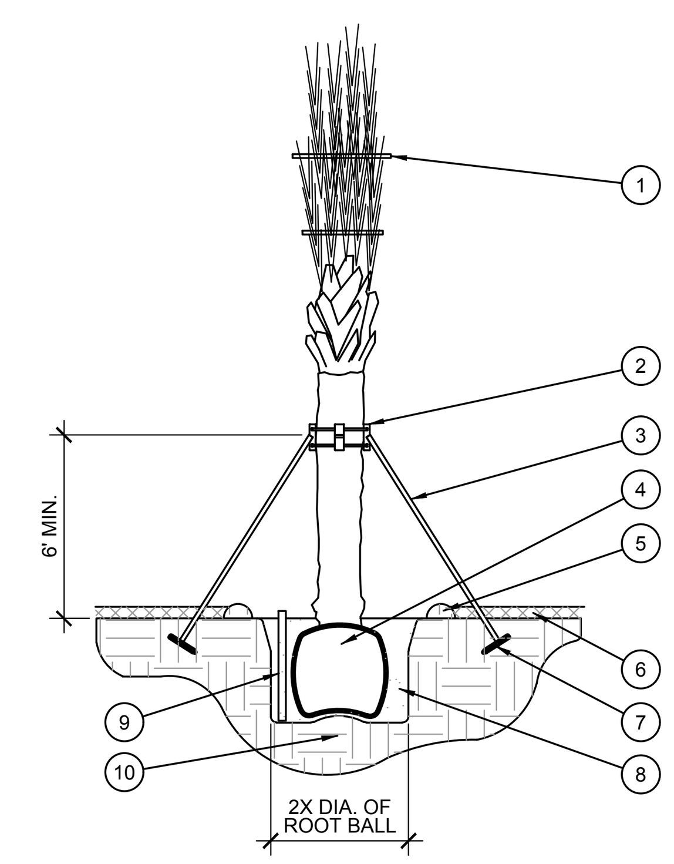
K. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
2. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.

L. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.



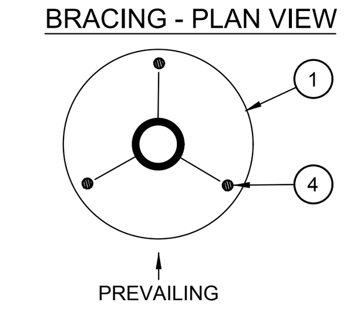
1. CURB.
2. MULCH LAYER.
3. PLANT.
4. TURF (WHERE SHOWN ON PLAN).

D — PLANTING AT PARKING AREA
SCALE: NOT TO SCALE



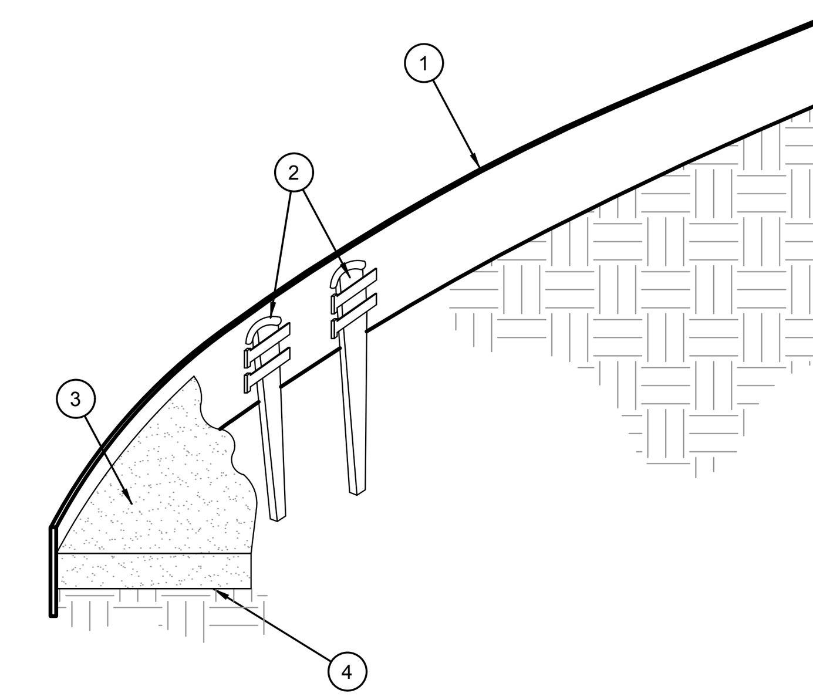
1. BIODEGRADEABLE TWINE.
2. PALM BRACE SYSTEM.
3. 2" X 4" SUPPORT, TOENAILED TO BRACE SYSTEM (3) - DO NOT NAIL TO PALM.
4. ROOT BALL.
5. 4" HIGH TEMPORARY WATERING BASIN.
6. MULCH PER PLANS. DO NOT ALLOW MORE THAN 1" OF MULCH WITHIN 12" OF TRUNK.
7. 2" X 4" X 12" DEADMAN, BURIED 12" MIN. BELOW GRADE.
8. BACKFILL MIX PER SPECIFICATIONS AND SOIL TEST RECOMMENDATIONS.
9. 4" PERFORATED PVC WATER MONITORING TUBE WRAPPED IN FILTER FABRIC (ANY APPROVED) - TWO PLACES AROUND PALM.
10. UNDISTURBED SUBGRADE.

BRACING - PLAN VIEW



NOTES:
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING PALM.
2. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ZONE OF ROOT INITIATION IS 3"-5" BELOW FINISH GRADE.
3. DO NOT REMOVE ANY LIVE FRONDS PRIOR TO DIGGING AT THE NURSERY.
4. AFTER PLANTING, LOOSEN THE TWINE SO THAT THE FRONDS MAY MOVE, BUT THE TERMINAL BUD IS PROTECTED.

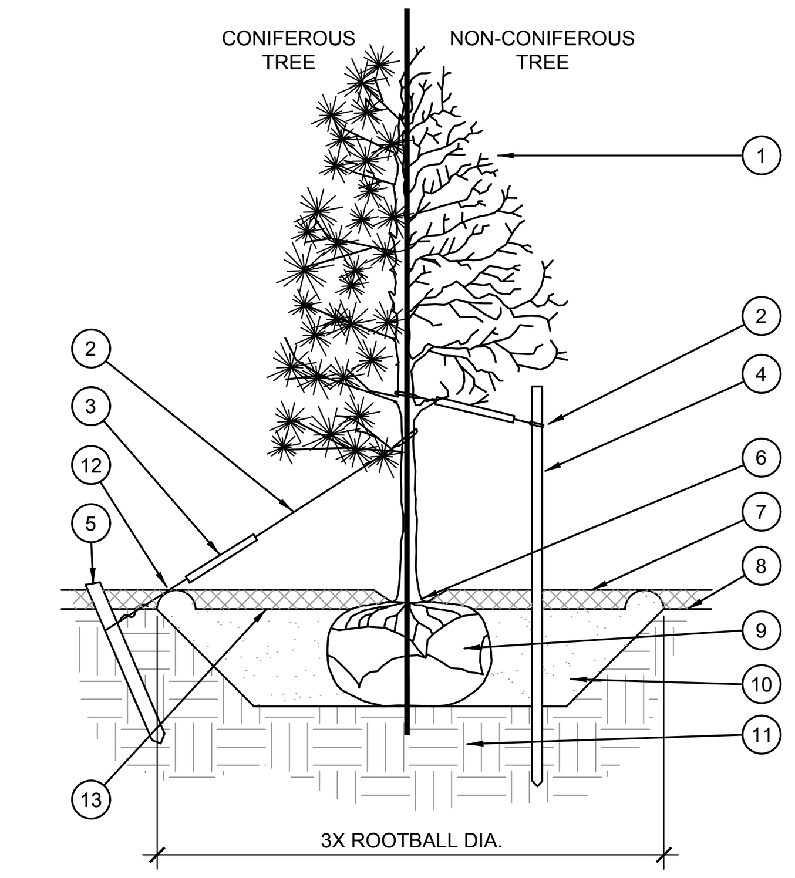
E — PALM PLANTING
SCALE: NOT TO SCALE



1. ROLLED-TOP STEEL EDGING PER PLANS.
2. TAPERED STEEL STAKES.
3. MULCH, TYPE AND DEPTH PER PLANS.
4. FINISH GRADE.

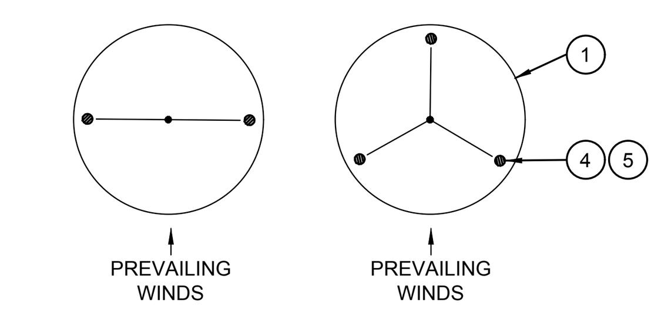
NOTES:
1) INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED.
2) BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE.
3) TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.

F — STEEL EDGING
SCALE: NOT TO SCALE



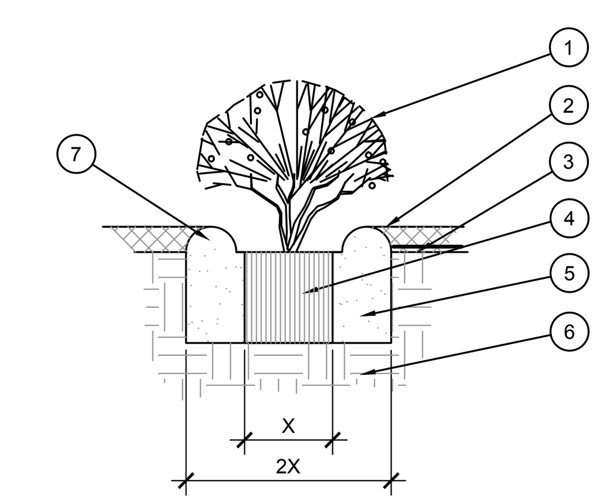
1. TREE CANOPY.
2. CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
3. 24" X 3/4" P.V.C. MARKERS OVER WIRES.
4. GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.
5. PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
6. TRUNK FLARE.
7. MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.
8. FINISH GRADE.
9. ROOT BALL.
10. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
11. UNDISTURBED NATIVE SOIL.
12. 4" HIGH EARTHEN WATERING BASIN.
13. FINISH GRADE.

STAKING EXAMPLES (PLAN VIEW)



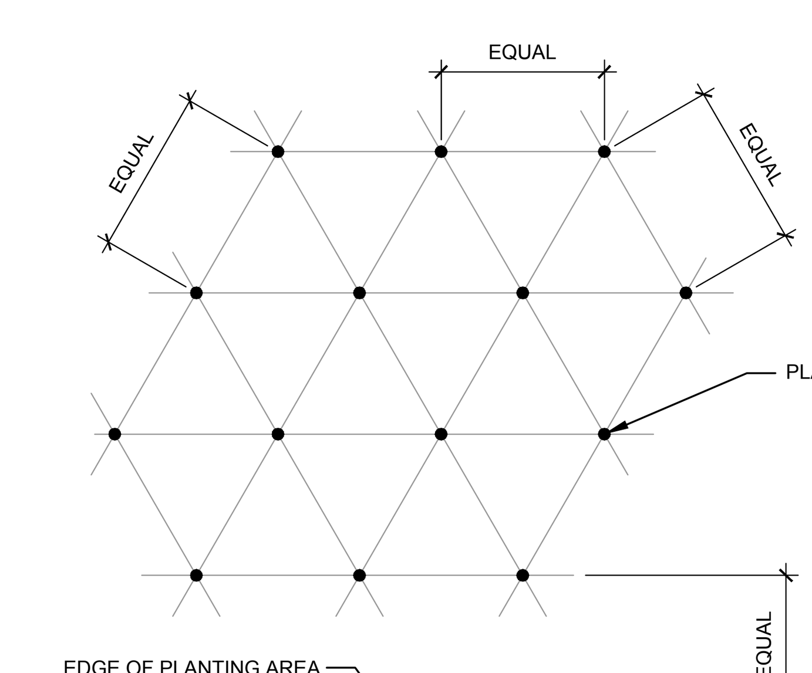
NOTES:
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE.
3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE, REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.
4. REMOVE ALL NURSERY STAKES AFTER PLANTING.
5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.

A — TREE PLANTING
SCALE: NOT TO SCALE



1. SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.
2. MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER.
3. FINISH GRADE.
4. ROOT BALL.
5. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
6. UNDISTURBED NATIVE SOIL.
7. 3" HIGH EARTHEN WATERING BASIN.

B — SHRUB AND PERENNIAL PLANTING
SCALE: NTS



NOTE: ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.

1) STEP 1: DETERMINE TOTAL PLANTS FOR THE AREA WITH THE FOLLOWING FORMULA:
TOTAL AREA / AREA DIVIDER = TOTAL PLANTS

PLANT SPACING	AREA DIVIDER	PLANT SPACING	AREA DIVIDER
6"	0.22	18"	1.95
8"	0.39	24"	3.46
10"	0.60	30"	5.41
12"	0.87	36"	7.79
15"	1.35		

2) STEP 2: SUBTRACT THE ROW (S) OF PLANTS THAT WOULD OCCUR AT THE EDGE OF THE PLANTED AREA WITH THE FOLLOWING FORMULA: TOTAL PERIMETER LENGTH / PLANT SPACING = TOTAL PLANT SUBTRACTION

EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER
STEP 1: 100 SF/1.95 = 51 PLANTS
STEP 2: 51 PLANTS - (40 LF / 1.95 = 21 PLANTS) = 30 PLANTS TOTAL

C — PLANT SPACING
SCALE: NTS

EVERGREEN DESIGN GROUP
(800) 680-6630
2255 Glades Road, Suite 324A
Boca Raton, FL 33431
www.EvergreenDesignGroup.com
LA #6666710

	DATE	REMARKS
	05/05/22	Issued for Bid

CONTRACT DATE: 08.19.21
BUILDING TYPE: END. 20
PLAN VERSION: SEPT. 2021
BRAND DESIGNER:
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: RM
DRAWN BY.: KB
JOB NO.:

TACO BELL

16007 NEW INDEPENDANCE PKWY
WINTER GARDEN, FL 34787

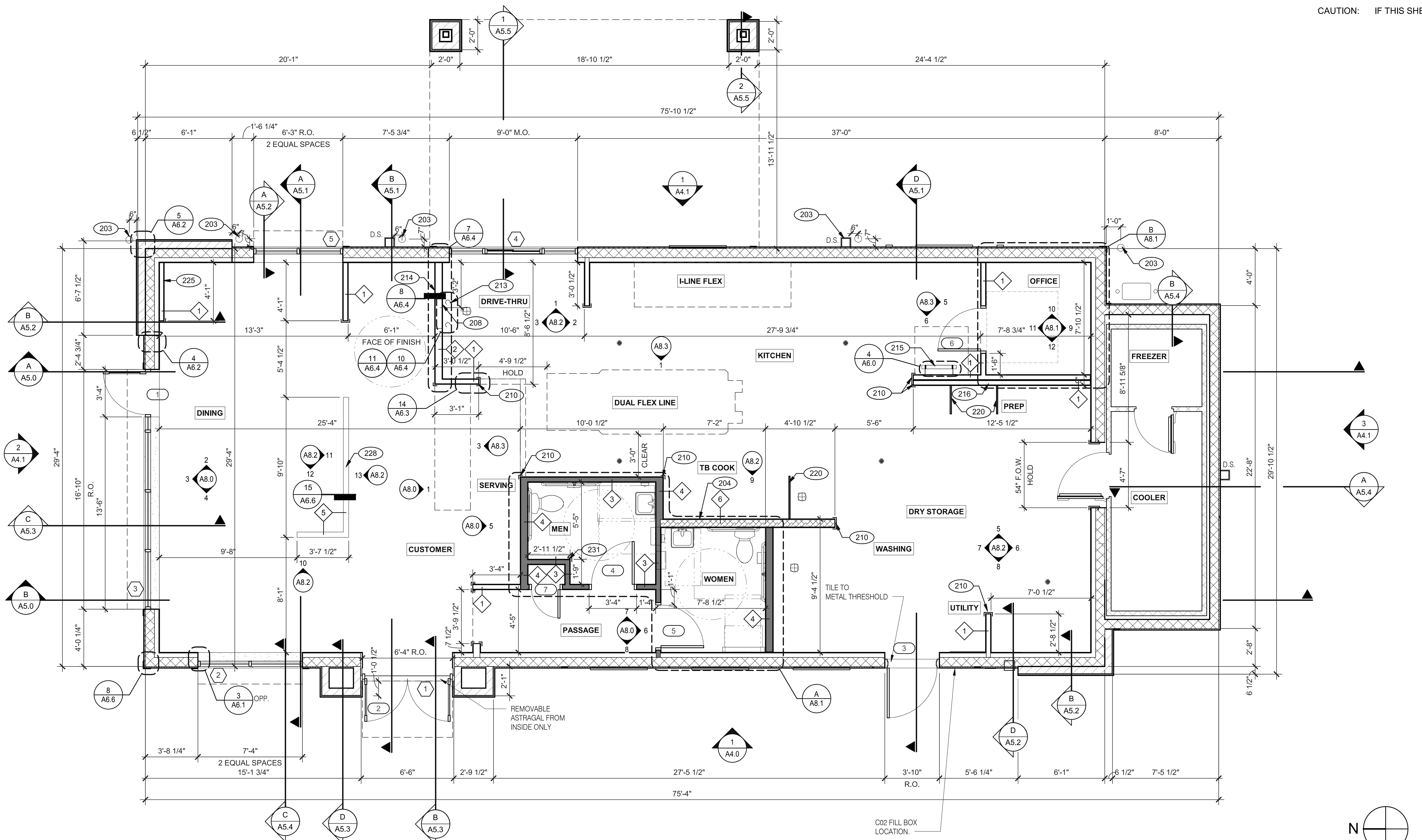
ENDEAVOR 2.0

LANDSCAPE DETAILS & SPECIFICATIONS

LP-2

PLOT DATE: 8/19/2021 10:08:35 AM

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



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

TYPICAL EXTERIOR WALL:
8" CMU WITH 3-5/8" (20 GA) METAL STUDS AT 16" O.C. ON INTERIOR SIDE WITH R-19 KRAFT-FACED FIBERGLASS BATT INSULATION U.O.N. GC SHALL PROVIDE BLUESKIN VP SELF ADHERED AIR BARRIER ON OUTSIDE FACE OF CMU.

TYPICAL EXTERIOR WALL:
8" CMU. GC SHALL PROVIDE BLUESKIN VP SELF ADHERED AIR BARRIER ON OUTSIDE FACE OF CMU.

TYPICAL EXTERIOR WALL:
6" METAL STUDS AT 16" O.C. WITH 1/2" FIRE RETARDENT TREATED SHEATHING. GC SHALL PROVIDE BLUESKIN VP SELF ADHERED AIR BARRIER ON OUTSIDE FACE OF SHEATHING.

TYPICAL INTERIOR WALL :
3-5/8" (20 GA) METAL STUDS AT 16" O.C. (6" WHERE NOTED.) INTERIOR WALLS AND GYP. BD. SEPARATING DINING SPACE WITH OTHER AREAS TO EXTEND TO UNDERSIDE OF TRUSSES U.O.N.

1 3 5/8" METAL STUDS 2 6" METAL STUDS

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

3 3 5/8" METAL STUDS 4 6" METAL STUDS

LOW WALL:
3 5/8" METAL STUDS AT 16" O.C. AS SCHEDULED (SEE DETAIL 15/A6.6)

5 3 5/8" METAL STUDS

HOODWALL:
INTERIOR NON-COMBUSTIBLE WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. EXTEND MIN. 18" BEYOND END OF HOOD. M. STUD FRAMING. REFER TO DETAIL 2/M3.0 FOR EXTENT OF S.S. PANEL.

6 6" METAL STUD

DASHED LINE INDICATES INTERIOR SUBSTRATE LOCATION.

WALL HEIGHTS:
ALL INTERIOR NON-BEARING WALLS 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.
- 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 NOTED ARE TO FACE OF CONCRETE FOUNDATION, FACE OF CMU ON EXTERIOR WALLS, AND FACE OF FINISH ON INTERIOR WALLS U.N.O.
B. DIMENSIONS NOTED AS "CLEAR" OR "HOLD" ARE MIN. REQUIRED. NET CLEARANCE FROM FACE OF WALL / WAINSCOT FINISH. VERIFY FINAL EQUIPMENT SIZES W/ VENDOR PRIOR TO INT. WALL FRAMING.

WINDOWS / DOORS:
A. SEE SHEET A1.1 FOR WINDOW TYPES AND DOOR SCHEDULE.
B. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING.

FINISH SUBSTRATES:
A. PROVIDE 1/2" THICK CEMENTITOUS BD. FROM FLOOR SLAB TO 12" A.F.F. MIN. IN LIEU OF GYP. BD. AT ALL WALLS EXCEPT SHEARWALL SURFACES, U.O.N.
B. ALL JOINTS, GAPS OR SPACES LEADING TO ALL HOLLOW OR INACCESSIBLE SPACES SHALL BE SEALED WITH "NSF INTERNATIONAL" APPROVED SEALANTS.
C. ALL BACK OF HOUSE AND OFFICE WALLS SHALL HAVE 1/2" CDX PLYWOOD SUBSTRATE, U.O.N.

DECOR:
A. SEE A2.0 FOR SEATING PLAN AND DETAILS.
B. SEE A7.0 FOR FLOOR FINISHES.
C. SEE A8.0 - A8.3 FOR WALL FINISHES.
D. SEE A7.1 FOR CEILING FINISHES.

GENERAL:
A. PROVIDE THREE FIRE EXTINGUISHERS - (2) 10 lb. BC AND (1) 10 lb. ABC - TO COMPLY WITH LOCAL FIRE CODE. LOCATE PER DIRECTION OF FIRE MARSHALL OR LOCAL AUTHORIZING AGENT. FOR ADDITIONAL INFORMATION SEE SHEET A2.0
B. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON NON-BEARING INTERIOR PARTITONS, BULKHEADS AND SOFFITS IS ACCEPTABLE.

FLOOR PLAN NOTES **D**

203	PIPE BOLLARD. SEE CIVIL DRAWINGS.
204	HOOD WALL, SEE WALL LEGEND.
208	KEEP CLEAR FOR UTILITIES & SYRUP LINES.
210	S.S. CORNER GUARD/WALL CAP [TM-2], TYP. ALL CORNERS IN BACK OF HOUSE FROM REAR WALL TO THE KITCHEN SIDE OF THE SERVICE COUNTER. SEE DETAIL 14/A6.3.
213	SYRUP LINE CHASE (ABOVE).
214	14"x14" HORIZONTAL OPENING FOR SYRUP TUBES. COORDINATE WALL PENETRATION WITH COUNTER INSTALLER. SEAL CHASE TO COUNTER.
215	ROOF LADDER.
216	ADD SECOND 2X4 WALL ON KITCHEN SIDE.
220	SPLASH GUARD. SEE DETAIL 9/A6.3.
225	FUR OUT WALL AS INDICATED WITH 2X4 WOOD STUDS AT 16" O.C.
228	LOW WALL, BY G.C. COORDINATE WITH STRUCTURAL DRAWINGS
231	CORNER GUARD TILE SCHLUTER. SEE DETAIL 15/A6.3.

KEY NOTES **B**

Mark S. Salopek, LLC
3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

DATE	REMARKS
03.02.22	Issued for Permit
05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL
5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
FLOOR PLAN

A1.0

PLOT DATE: 5/3/2022 8:05:13 AM

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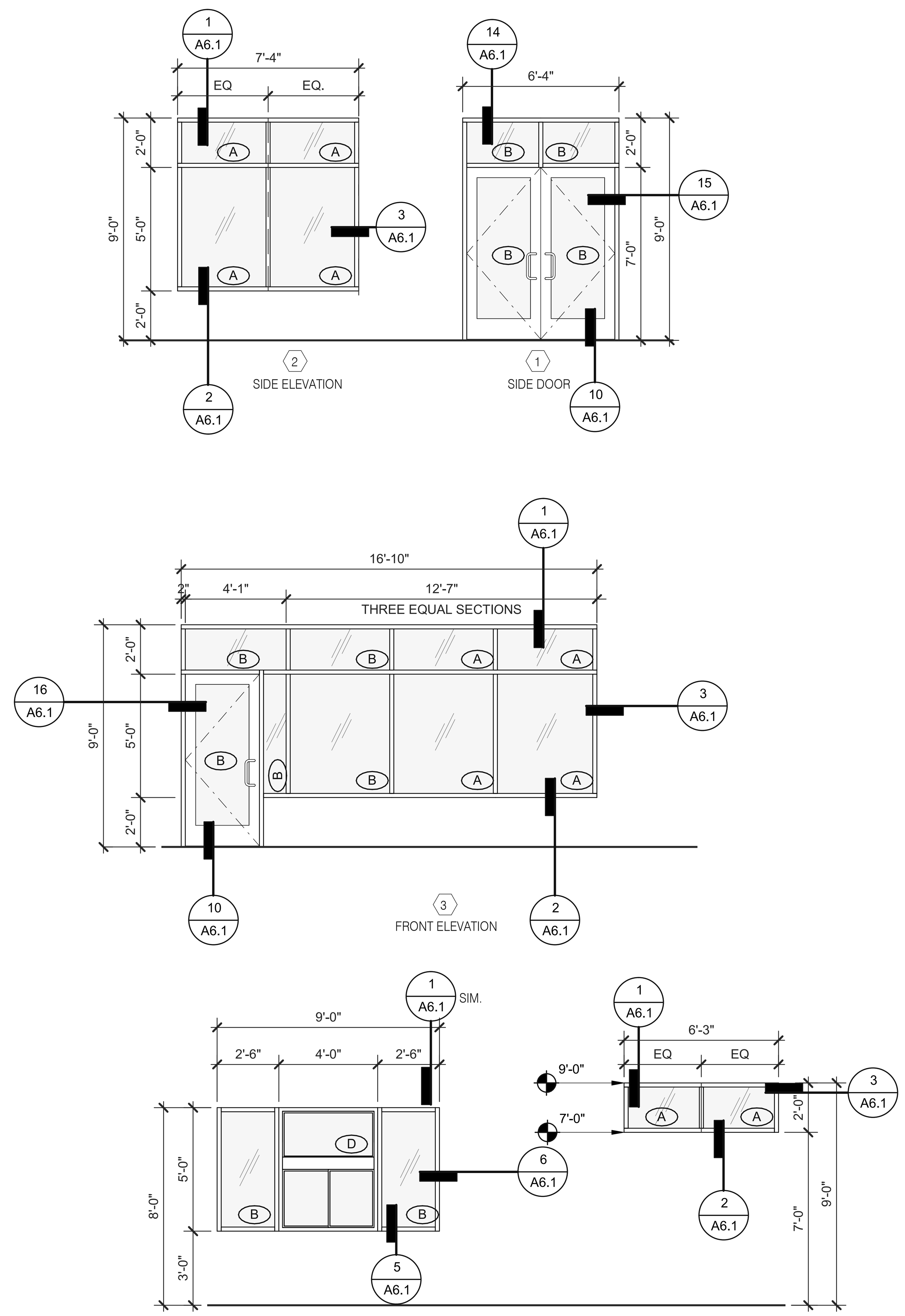


NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING.

WINDOW TYPES 1/4" = 1'-0" 9

1. DIMENSIONS ON THIS DRAWING ARE TO ROUGH OPENING. ADJUST FRAME DIMENSION TO MAINTAIN 3/8" SEALANT JOINT.
2. SEE SCHEDULE FOR GLASS TYPES.
3. REFER TO FLOOR PLAN, ELEVATIONS AND WALL SECTIONS FOR ROUGH OPENING DIMENSIONS.
4. ALL STOREFRONT MATERIAL AND GLAZING SHALL BE SUPPLIED AND INSTALLED BY G.C., U.O.N.

NATIONAL ACCOUNTS SUPPLIER

INTERIOR DOORS, FRAMES & HARDWARE	HAMILTON PARKER
LOCKNET CONSTRUCTION@LOCKNET.COM 800 JOHN C. WATTS DR. NICHOLASVILLE, KY 40356 855-432-4613 FAX: 877-887	JIM CAMPBELL D. 614-358-7806 E-MAIL: JIM CAMPBELL@HAMILTON PARKER.COM

STOREFRONT SPECIFICATION

STOREFRONT	GLAZING
OLD CASTLE FG-3000	VITROGLAZINGS SOLARBAN 90 SOLAR CONTROL LOW-E GLASS

SEE EXTERIOR ELEVATIONS FOR STOREFRONT COLOR

GLASS SCHEDULE

- (A) 1" INSULATED GLASS
- (B) 1" INSULATED TEMPERED GLASS
- (C) 1/4" TEMPERED GLASS
- (D) SAFETY GLASS BY MFR.

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

GREEN

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

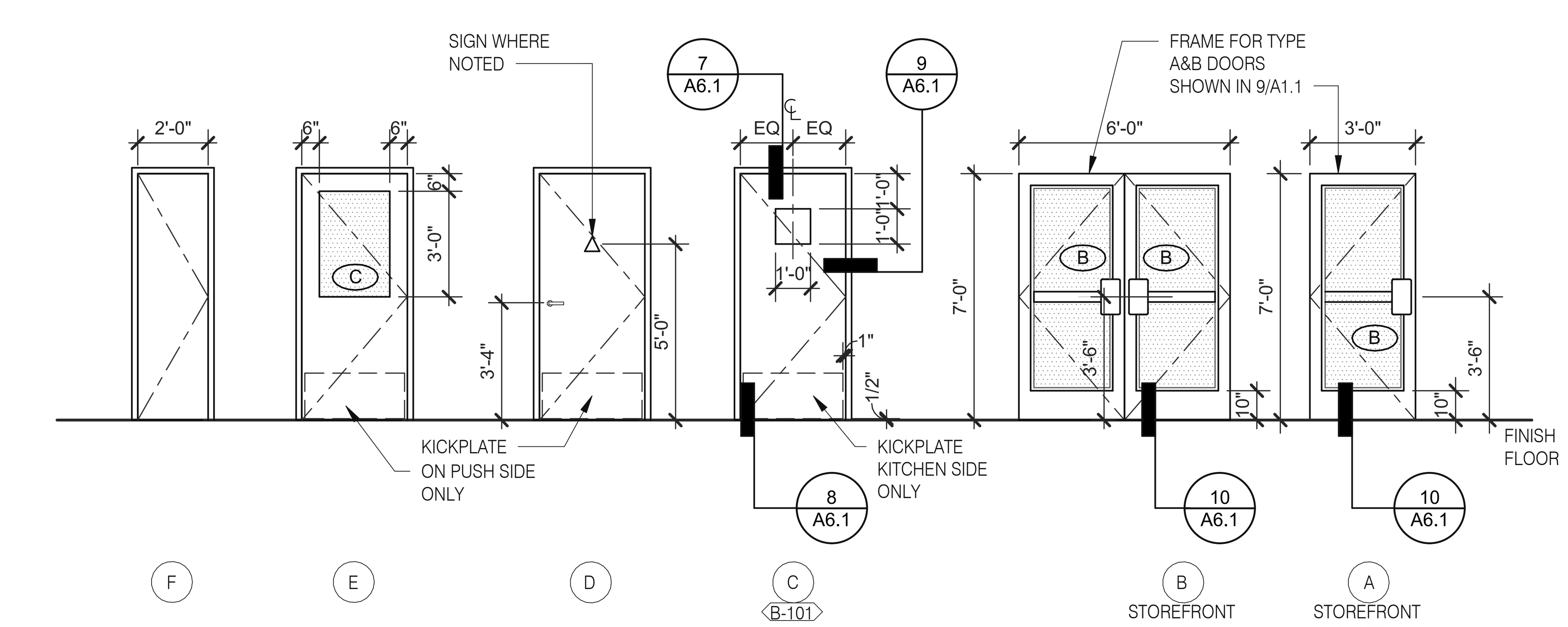
NOTES 4

1. LAMINATE DOORS 4, 5, 6 & 7 AND PAINT FRAMES 3, 4, 5, 6 & 7. SEE INTERIOR ELEVATION, SHEET A8.0, A8.1 & A8.2.
2. ALL HARDWARE SHALL BE US32D U.O.N.
3. ALL HM FRAMES SHALL BE 16 GA. STEEL U.O.N.
4. ALL LOCKS SHALL BE FALCON 6 PIN INTERCHANGEABLE CORE SUPPLIED AND INSTALLED BY THE G.C. ALL EXTERIOR LOCKS SHALL BE PROVIDED WITH CONSTRUCTION CORES. ALL PERMANENT CORES SHALL BE KEYED ALIKE.
5. PERMANENT CORES SHALL BE SHIPPED TO THE RESTAURANT GENERAL MANAGER.
6. MOUNT DOOR CLOSERS ON RESTROOM OR KITCHEN SIDE ONLY.
7. LOCKNET SECURITY DOOR. COMPLETE DOOR, FRAME, AND HARDWARE PACKAGE PROVIDED BY RSCS FACILITIES CONNECTIONS.
8. PROVIDE PUSH/PULL PLATES. IF REQUIRED BY LOCAL CODE, STOREFRONT DOOR PANIC HARDWARE SHALL BE: DOR-O-MATIC 2092 RIM PANIC HARDWARE AND EXTERIOR PULLS WITH QUALITY #520 DOOR PULL.
9. MOUNT KICKPLATE ON PUSH SIDE ONLY.
10. MAXIMUM DOOR OPERATING PRESSURE: 5 LBS INTERIOR, 8.5 LBS EXTERIOR.
11. ADA COMPLIANT ACCESSIBILITY SIGNAGE, INCLUDE BRAILLE AS REQUIRED BY LOCAL JURISDICTION - (1) MEN, (1) WOMEN. SEE G4.0.
12. RESTROOM SIGN REQUIRED. SEE G4.0.
13. INSTALL WITH APPLIED DOORS STOPS AND WEATHER STRIPS.
14. FRAMES SHALL BE PAINTED. SEE INTERIOR OR EXTERIOR ELEVATIONS.
15. PROVIDE LATCH AND STRIKE PLATE HARDWARE BY DOOR MFR. TO BE COMPATIBLE WITH LOCK.
16. NOT USED.
17. NOT USED.
18. GC TO TRIM DOOR SWEEP TO FIT DOOR.

DOOR SCHEDULE NOTES 1

DOOR NO.	ROOM NAME	DOOR SIZE			TYPE	DOOR	FRAME	BUTTS				LOCKS							CLOSERS			KICK PLATE			THRESHOLD				DOOR STOP			PUSH	PULL	MISCELLANEOUS						DETAIL LOCATIONS			DOOR NOTES
		WIDTH	HEIGHT	THICK				1	2	3	4	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-PB5405LN	YALE B-PB5407LNIC	FULL LENGTH LATCH PROTECTION INCL. IN PACKAGE	PANIC HARDWARE INCLUDED IN PACKAGE	FALCON C953-7 OR C987-7 AS REQUIRED	FALCON D271 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 532.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 #162622	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	* LESS THAN DOOR WIDTH
1	DINING	3'-0"	7'-0"	1 3/4"	A	AL	AL	X								X		X	X						X										X		X					10/A6.1	8, 10, 13, 15
2	ENTRANCE	6'-0"	7'-0"	1 3/4"	B	AL	AL	X								X		X	X						X										X		X					10/A6.1	8, 10, 13, 15
3	KITCHEN	3'-6"	7'-0"	1 3/4"	C	HM	HM			X				X	X					X			X			X								X						7/A6.1	11/A6.1	8/A6.1	6, 7, 10, 14, 18
4	MEN	3'-0"	7'-0"	1 3/4"	D	WD	HM		X								X				X	X										X		X	X			X		X	X	6/A6.4	6/A6.4		6, 9, 10, 11, 12, 14
5	WOMEN	3'-0"	7'-0"	1 3/4"	D	WD	HM		X								X				X	X										X		X	X			X		X	X	6/A6.4	6/A6.4		6, 9, 10, 11, 12, 14
6	OFFICE	3'-0"	7'-0"	1 3/4"	E	WD	HM		X				X									X			X				X							X				6/A6.4	6/A6.4		9 OPTIONAL
7	CLOSET	2'-0"	7'-0"	1 3/4"	F	WD	HM		X				X																							X				6/A6.4	6/A6.4		9 BOTH SIDES, 14

DOOR SCHEDULE 2



NOTE: ELEVATIONS DRAWN AS VIEWED FROM EXTERIOR OF BUILDING OR OUTSIDE ROOM.

DOOR TYPES 3

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

DATE	REMARKS
03.02.22	Issued for Permit
05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0

DOOR & WINDOW ELEVATIONS & SCHEDULES

A1.1

PLOT DATE: 5/3/2022 8:05:18 AM

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

Mark S. Salopek, LLC
3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
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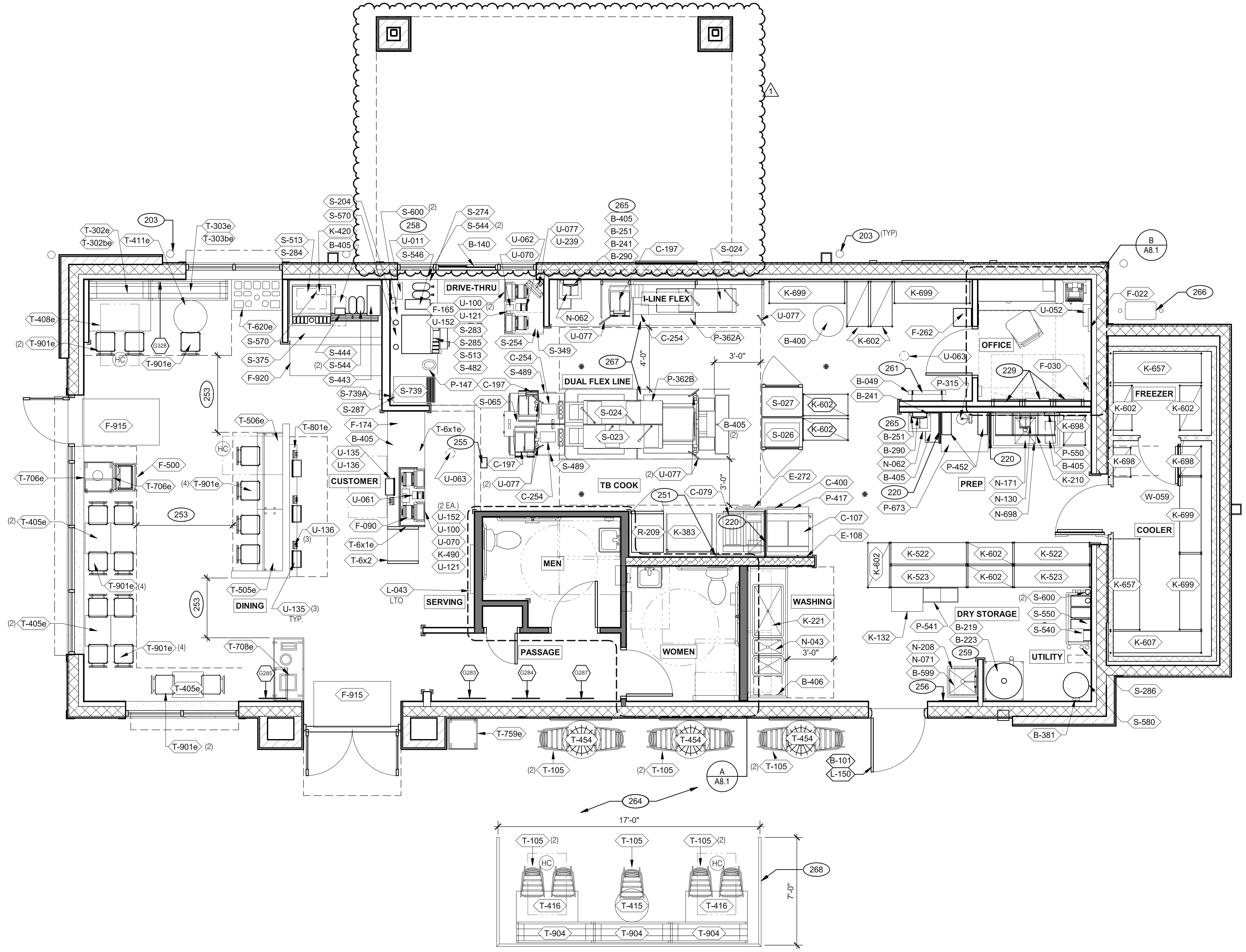

EQUIPMENT AND SEATING PLAN 1/4" = 1'-0" A

TAG	QTY	ITEM DESCRIPTION
T-6x1e	1	GO MOBILE COUNTER
T-6x2	1	25in. TOGO Cubby
T-105	11	RETRO CHAIR - 18
T-302be	1	BENCH BACK REST - 60"
T-302e	1	BENCH SEAT - 48"
T-303be	1	BENCH BACK REST - 60"
T-303e	1	BENCH SEAT - 60"
T-405e	5	LAMINATE TABLE - 24 X 20 X 30 - 2 TOP
T-408e	1	LAMINATE TABLE ADA - 24 X 48 X 30 - 4 TOP
T-411e	1	SS TABLE - 24 DIA X 30 - 2 TOP
T-415	1	SS TABLE - 24 DIA X 30 - 2 TOP
T-416	2	LAMINATE TABLE ADA - 24 X 48 X 30 - 4 TOP
T-454	3	INTERLACE DINING TABLE BY KIAN
T-505e	1	COUNTER TOP - 48" X 20" X 30"
T-506e	1	COUNTER TOP - 60" X 20" X 30"
T-620e	1	CONDIMENT COUNTER - RECTANGLE

TAG	QTY	ITEM DESCRIPTION
T-706e	1	WASTE ENCLOSURE - SINGLE
T-708e	1	WASTE ENCLOSURE - 3 STREAM
T-759e	1	WASTE ENCLOSURE - SINGLE
T-801e	1	KIOSK 1/2 TOWER
T-901e	17	CHAIR - LAMINATE SEAT
T-904	3	BENCH SEAT - 60"

FURNITURE PACKAGE - BY FURNITURE VENDOR U.O.N. E

X	QTY.	NAME	FAMILY	FRAME OR MURAL	SIZE	LOCATION
G328	1	GM - LP MURAL	E	M01	CUSTOM	SEE A8.0
G283	1	GM - CW	E	F01	28x40	SEE A8.0
G284	1	GM - BELL	E	F02	28x40	SEE A8.0
G285	1	GM - ORG	E	F01	28x40	SEE A8.0
G287	1	GM - CW2	E	F01	28x40	SEE A8.0

ARTWORK SCHEDULE D

DECOR
1. REFER TO SC SHEETS FOR SCOPE OF WORK RESPONSIBILITY
2. (HC)- SYMBOL DENOTES A HANDICAP ACCESSIBLE TABLE.

GENERAL NOTES C1

STORAGE TYPE	LINEAR FT.
DRY STORAGE	50
COLD STORAGE	26
FROZEN STORAGE	12

SHELVING QUANTITIES C2

- 203 PIPE BOLLARD. SEE CIVIL DRAWINGS.
- 220 SPLASH GUARD. SEE DETAIL 9/A6.3.
- 229 ELECTRICAL PANELS.
- 251 HOOD FIRE SUPPRESSION SYSTEM (ANSUL R-102 OR EQUAL).
- 253 MAINTAIN 36" MIN. CLEAR ACCESSIBLE AISLE EGRESS PATHS TO EXIT DOORS, 32" AT DOORWAYS AND CASED OPENINGS. (42" AISLE REQUIRED WHEN AISLE SERVES MORE THAN 50 SEATS).
- 255 ALERT LIGHT BOX FOR 3-COMP POWER SOAK.
- 256 PULL STATION @ 3'-8" A.F.F.
- 258 COORDINATE LOCATION OF HORIZONTAL PVC SYRUP CHASE THRU WALL TO COUNTER.
- 259 6" HIGH WATER HEATER PLATFORM.
- 261 ROOF LADDER WITH BILCO LADDER UP SAFETY POST.
- 264 LOCATE PATIO PER CIVIL DRAWINGS.
- 265 AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB.
- 266 GAS METER.
- 267 FOR DUAL-FLEX LINE AND I-FLEX LINE SUB-EQUIPMENT SEE SHEET A8.3.
- 268 WROUGHT IRON FENCING BY G.C.

(XXX) **KEY NOTES** B

DATE	REMARKS
03.02.22	Issued for Permit
1 04.28.22	NTP/ Plan Review Comments
05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
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TACO BELL
5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
EQUIPMENT AND SEATING PLAN

A2.0

PLOT DATE: 5/3/2022 8:05:31 AM

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-101	1		SECURITY DOOR	RSBS FACILITIES CONNECTION				SECURITY DOOR PER QUOTE LOCKNET TAN STEEL. INCLUDES: STEEL FRAME
B-140	2	X	DT WINDOW	QUICKSERV#SC4030BR - SELF CLOSING, R/H HANDLE, OPENS RIGHT				FINISH TO MATCH STOREFRONT, DARK BRONZE
B-219	1	X	WATER HEATER DUNNAGE RACK	NEW AGE INDUSTRIAL CORP., INC #98147				
B-223	1	X	98% HIGH EFFICIENCY 199 MBH, 100 GAL. GAS WATER HEATER	A.O. SMITH BTH-199 100 CYCLONE HE	X		X	
B-241	4	X	SOAP DISPENSER (WALL MOUNT)	KAY 3741				
B-251	2	X	SANITIZER DISPENSER (WALL MOUNT)	KAY 3741				
B-253	2	X	PAPER TOWEL DISPENSER/TRASH 12 GAL.	BOBRICK #B-3944				
B-265	2	X	MIRROR, 18 x 36	BOBRICK #B-165-1836				
B-275	2	X	TOILET PAPER DISPENSER	BOBRICK #B-2890				
B-290	2	X	PAPER TOWEL DISPENSER	BOBRICK #B-262				
B-300	2	X	GRAB BAR 1-1/2 DIA. X 42 S.S. FIN.	BOBRICK #B6806X42				
B-305	2	X	GRAB BAR 1-1/2 DIA. X 48 S.S. FIN.	BOBRICK #B6806X48				
B-310	2	X	GRAB BAR VERTICAL 1-1/2 DIA. X 18 S.S. FIN.	BOBRICK #B6806X18				
B-320	1		CHANGING STATION					
B-381	1	X	CO2 CARBON DIOXIDE SENSOR/WARNING	LogiCO2 CO2 MK9 SENSOR		X		
B-400	1	X	WASTE BASKET - 32 GALLON	RUBBERMAID #2632 (GREY)				
B-405	7	X	WASTE BASKET					
B-406	1	X	WASTE BASKET	RUBBERMAID 28 QT #2956 (BLACK)				
B-410	1	X	SANITARY NAPKIN RECEPTACLE	RUBBERMAID #6140				
B-599	1	X	MOP SINK SHELVING	SPG #WST806Y				

C COOKING EQUIPMENT

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
C-079	1	X	DUAL FRYER	FRYMASTER #2FQG30U		X	X	COMES WITH GAS HOSE KIT (OPTIONAL: PITCO #TB-SSHLV14-2/FD VS7)
C-107	1	X	RETHERMALIZER	PITCO #TB-SRTG14-2	X	X	X	
C-197	3	X	TOASTER, SPLIT LID	PROLUXE SL1266TB		X		POWERED BY PRODUCTION LINE - (OPTIONAL: STAR #PSC14DTB)
C-254	3	X	CHEESE MELTER (SINGLE)	A.J.ANTUNES #CM-100	X	X		POWERED BY PRODUCTION LINE
C-400	2	X	RETHERMALIZER TIMER	FAST #TBZAP12120V		X		

E EXHAUST HOODS/FIRE SUPPORT

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
E-108	1	X	STROTEVENT 106 IN. H X 111 IN. L BACK SPLASH	STROTEVENT MODEL #BACKSPLASH106X111FLA		X		
E-272	1	X	TIMER OUTLET			X		

F OFFICE/EMPLOYEE/MUSIC/MISCELLANEOUS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
F-014	1	X	FILE CABINET (2 DRAWER HIGH) 18X36X27H	HON #582LL				
F-021	1	X	CHAIR - OFFICE	HON #4609AB10				IN OFFICE AREA, SEE SHEET A8.2
F-022	1	X	LICENSE FRAME (BLACK)	CREATIVE PALETTE TB30		X		IN OFFICE AREA
F-026	1	X	DESK LAMP	TBD				IN OFFICE AREA, SEE SHEET A8.2
F-030	1	X	COAT HOOK	ISS #HOOK246R2Y		X		IN OFFICE AREA
F-040	1		OFFICE COMPUTER	POS PROVIDED		X		IN OFFICE AREA, SEE SHEET A8.2
F-050	1		CREDIT CARD SATELLITE ROUTER JUNCTION					
F-060	1		MONITOR - OFFICE	YUM				
F-080	1		OFFICE PRINTER/COPIER/FAX/SCANNER	POS PROVIDED		X		
F-090	4		UPS (UN-INTERUPTABLE POWER SUPPLY)	POS PROVIDED		X		
F-102	1	X	MONEY COUNTER	TELLERMATE #TIXR3000		X		IN OFFICE AREA
F-131	1		SPEAKERS	MOOD MEDIA LOCAL LEASE		X		
F-165	2	X	FRONT LOAD SAFE	PERMA VAULT #PRO-10TM				
F-174	1		SAFE WITH TOUCH SCREEN CONTROLS			X		
F-211	1	X	CLOCK	B&B SYSTEMS #02100100				IN OFFICE AREA, SEE SHEET A8.2
F-262	1	X	6 COUNT EMPLOYEE LOCKERS E76000235	LYON WORKPLACE 12" X 18" X 78" GREY		X		IN OFFICE AREA
F-270	1	X	FIRST AID KIT	PROSTAT FIRST AID LCC #2617		X		IN OFFICE AREA
F-500	1		STACKABLE HIGH CHAIR					
F-504	1		DVR & MONITOR					
F-915	2		FLOOR MAT	CREWSAFE, ENTRANCE I #41150012				RUBBERIZED - 3'-5', RIBBED, CHARCOAL, WSM #800503
F-920	1		RUBBER MAT	CREWSAFE, WSM#800507				RUBBERIZED - BLACK 2X8, 1/4 NON SLIP CORRUGATED TOP & RUBBER NO-SLIP BACK ENTRANCE

K WORKSTATIONS/SHELVING/CARTS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
K-132	1		CART, CLOSING MADE SIMPLE	SPG / ISS (Alternate: METRO)				#WST1434Y
K-210	1		PREP SINK WORKSTATION 50 TRACK	SPG / ISS (Alternate: METRO)				#WST255E, Wall Trax System for 1-Comp Sink, 16X50X40 + ACC
K-221	1	X	3 COMP SINK WORKSTATION 96 TRACK	SPG / ISS (Alternate: METRO)				#DS1F, Wall Trax System for 3 Comp Sink, (3) 18X24 GRIDS + ACC
K-383	1		FRY WORKSTATION 30D x 78H x 36 in.	SPG / ISS (Alternate: METRO)				#WST1724E, 36 in. Crispy Frystation
K-420	1		SHELF, BEV PLATFORM 18X24	SPG / ISS (Alternate: METRO)				#WST34Y: F/CARBONATOR, &/OR RECIRC PUMP
K-490	2		SHELVING 18x24x24, 2-TIER	SPG / ISS (Alternate: METRO)				#WST440Y
K-522	2		SHELVING, 18x60x76, 5-TIER, SMALL PACKAGING	SPG / ISS (Alternate: METRO)				#WST1548Y
K-523	2		SHELVING, 18x60x76, 3-TIER, CUP & LID	SPG / ISS (Alternate: METRO)				#WST1580Y
K-602	9		SHELVING, 18x36x86, 5-TIER, DRY STORAGE	SPG / ISS (Alternate: METRO)				#WST238Y
K-607	1		SHELVING	SPG / ISS (Alternate: METRO)				
K-657	2	X	SHELVING 24x72x86, 5-TIER	SPG / ISS (Alternate: METRO)				#SU247285Y: WALK-IN COOLER 24X72X86
K-698	3		SHELVING 18X24X74, 5-TIER	SPG / ISS (Alternate: METRO)				#SU186075Y
K-699	4		SHELVING 18x60x74, 5-TIER	SPG / ISS (Alternate: METRO)				#SU186075Y

L LIGHTING/SIGNAGE/MENUBOARDS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
L-043	1		DIGITAL MENU BOARD	STRATACACHE, LG 43" DISPLAY		X		
L-150	1	X	SECURITY DOOR DANGER SIGN	ADVERCO#ADVCUSTOM				ORDERED DIRECT FROM YRFS

N SINKS/DISHWASHER

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
N-043	1	X	3-COMP POWER SOAK 102	UNIFIED #PS6750	X	X		GEN IV POWERSOAK INCLUDES T&S FAUCET #B-2475-PS-OH (FRANCHISE OPTION: GEN III)
N-062	2	X	STAINLESS STEEL WALL MOUNTED SINK WITH FAUCET	AERO #HS-MOD	X			
N-071	1	X	MOP SINK FAUCET	T&S B-2465	X			
N-130	1	X	1 COMP PREP SINK FAUCET	T&S B-0831-WA	X			FRANCHISE OPTION N-134: T&S B-2465
N-141	2	X	WALL MOUNTED LAVATORY	AMERICAN STANDARDS BRAND	X			WHITE VITREOUS CHINA WALL MOUNTED LAVATORY WITH ACCESSORIES. N-141 IS METERED FAUCET.FAUCET, LAVATORY, CENTERSET MIXING, #B-0890-WS
N-146	2	X	FAUCET (RESTROOMS)	T&S FAUCET B-0831-WA	X			2" TWIST TYPE FOR N-698
N-171	1		LEVER WASTE DRAIN		X			
N-208	1	X	MOP SINK	AERO #3MP-2121-6/1P	X			INCLUDES (2) 24X36 WALL PANELS
N-698	1	X	1 COMP PREP SINK 53W X 27D X 35 1/2H	AERO #2F1211617LR	X			

P FOOD PREPARATION

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
P-147	1		BUNN COFFEE BREWER	MCA BLK Single Serve #35400.0005		X		
P-315	1	X	REVERSE OSMOSIS SYSTEM	3M #56123-06, FSTM-075	X			INSTALL OVER FLOOR SINK
P-362A	1	X	FLEX I LINE, L-R	FRANKE	X	X		
P-362B	1	X	FLEX DUAL LINE	FRANKE	X	X		
P-417	1	X	8-CHANNEL TIMER	FAST #KTRACK2X4TB		X		
P-452	2	X	HOT WATER SYSTEM	BUNN-MACHINE #43600.0014	X	X		Each System= Water Heater #43600.0014, Bracket #13125.0003, Shelf#12599.0000, Scale Inhibitor #39000.0001
P-541	1		STORAGE BINS	B4B SYSTEMS #03070100				
P-550	1	X	KNIFE RACK	EDLUND #KR-699				
P-673	1		WORK TABLE					

S SERVING/DRIVE-THRU

TAG	#	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	1	X	DESSERT TOWER	HATCO #GRBW-24D				
S-204	1	X	DRIVE-THRU TIMER SYSTEM	HME #C11422TB		X		
S-254	1		CONDIMENT RACK	PRONTO #CHPWO446				
S-274	1	X	DRIVE-THRU BEVERAGE WORKSTATION	SPG WST1242YA				OPTIONAL: METRO
S-283	1	X	DRINK STAGER WITHOUT STRAW HOLDER	WST788E				
S-284	1		BEVERAGE DISPENSER - SELF-SERVE	CORNELIUS 611057625	X	X		SEE SCOPE OF WORK (PEPSI)
S-285	1		BEVERAGE DISPENSER - DRIVE THRU	SERVEND	X	X		SEE SCOPE OF WORK (PEPSI)
S-286	1	X	WATER FILTER SYSTEM	SHURFLO #WB6-M3-22-003				FRANCHISEES CAN USE SELECTO #TB5/620-5
S-287	1	X	ISS-TABLE, D/T, TB, 24 IN X36 IN PREASSEMBLED	FBD #1273610021	X	X		
S-349	1		DRIVE-THRU PICK-UP WORKSTATION 30X42	SPG				OPTIONAL:METRO
S-375	1	X	DRINK STATION	CARTER-HOFFMAN	X			S/S, INSULATED DRAIN TROUGH, WEIGHT RATED
S-443	1	X	LID DISPENSER	CAL-MIL ADA TB103				
S-444	1	X	NAPKIN DISPENSER	TOR XPRESSNAP #5555100				
S-482	1		CUP DISPENSER	A.J. ATUNES #DACS60				W/ ANGLED MOUNTING BRICKET OMNITEAM CDB-DTA
S-489	2		SCALE	EDLUND				10#X.1OZ, ELECTRONIC, EDLUND #DS-10 CSTM; WSM #113464
S-513	2		ICE MAKER (PLACED ON TOP OF DRINK MACHINES)	MANITOWOC, KMS-1401MLJ	X	X		W/ROOF MOUNTED CONDENSERS HOSHIZAKI FRANCHISEES CAN USE HOSHISAKI KMS-1230
S-540	1		PEPSI BOOSTER TANK		X	X		SEE SCOPE OF WORK (PEPSI)
S-544	4		ICE TEA URN	BUNN/TDO-N-3.5				
S-546	1	X	ICED TEA BREWER	TETLEY TB3Q	X	X		
S-550	1		BAG-IN-BOX SYRUP RACK	CORNELIUS/REMCOR BNP12B8P	X			FLO-3REG-2CRB (BY PEPSI)
S-570	2		CARBONATOR	CORNELIUS/REMCOR	X	X		SHELF MOUNTED BELOW EACH DRINK (BY PEPSI)
S-580	1		CO2 BULK TANK	MVE #11805373				
S-600	4		BUNDLED SYRUP LINES	CORNELIUS/REMCOR TUBE BUNDLE	X			SEE SCOPE OF WORK (PEPSI)
S-739	1	X	FROZEN BEVERAGE DISPENSER, REMOTE	FBD #12-7362-00021	X	X		MUST ORDER REMOTE CONDENSER S-739A FREEZE TRANSFORMER
S-739A	1	X	FREEZE TRANSFORMER			X		
S-740	1	X	FROZEN BEVERAGE CONDENSER, REMOTE	FBD #12-3003-0006	X	X		40 IN X 17 IN X 21 IN 208 SINGLE PHASE 2 WIRE 15 AMP, 105LB

U SECURITY/COMMUNICATIONS/FIRE PROTECTION/POS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
U-011	1		BASE STATION - D/T COMM. SYSTEM	HME #C40000-5-HS3-TB				
U-052	1	X	SECURITY SYSTEM	ADT #3BCZTB		X		
U-061	1		CREDIT CARD READER			X		
U-062	1		DRIVE-THRU CREDIT CARD READER	VERIFONE P400		X		
U-063	2		ALARM SENSOR			X		
U-070	3		RECIEPT PRINTER	EPSON		X		2 FOR F/C AND 1 D/T 5.71 IN X 7.68 IN X 5.83 IN
U-076	2		ATOM SERVER	EN POINTE TECHNOLOGIES		X		12V DC 60W SYSE3029ARS011-CSP
U-077	7		TABLET 10.1"	EN POINTE TECHNOLOGIES - TABLET E611101				
U-100	4		POS/ORDER ENTRY TERMINAL			X		2 FOR F/C AND 1 D/T
U-121	3		CASH DRAWER BRACKETS	#SU186075Y				2 PER CASH DRAWER
U-135	4		KIOSK TABLET	SSP		X		
U-136	4		VERIFONE (CREDIT CARD MACHINE	SSP		X		
U-152	3		CASH DRAWER	IBM, NCR & PAR				2 FOR F/C AND D/T
U-239	1		MONITOR CEILING MOUNTED BRACKET	IBM, NCR & PAR				

W WALK-IN COOLERS/FREEZERS

TAG	#	G.C. INSTALL	ITEM DESCRIPTION	MFR. & MODEL NUMBER	PLUMBING	ELECTRICAL	GAS	REMARKS
W-059	1	X	WALK-IN	ICS/NORLAKE #105181	X	X		COMBO, TB, #105181, BUDGETARY 19-4X7X9-2 OAD, MEDIUM BUILDING PROTOTYPE, INCLUDES LED

R REFRIGERATION

TAG	#	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

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Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

DATE	REMARKS
03.02.22	Issued for Permit
05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
EQUIPMENT SCHEDULE

A2.1

PLOT DATE: 5/3/2022 8:05:44 AM

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3638 WEST GALLOWAY DRIVE
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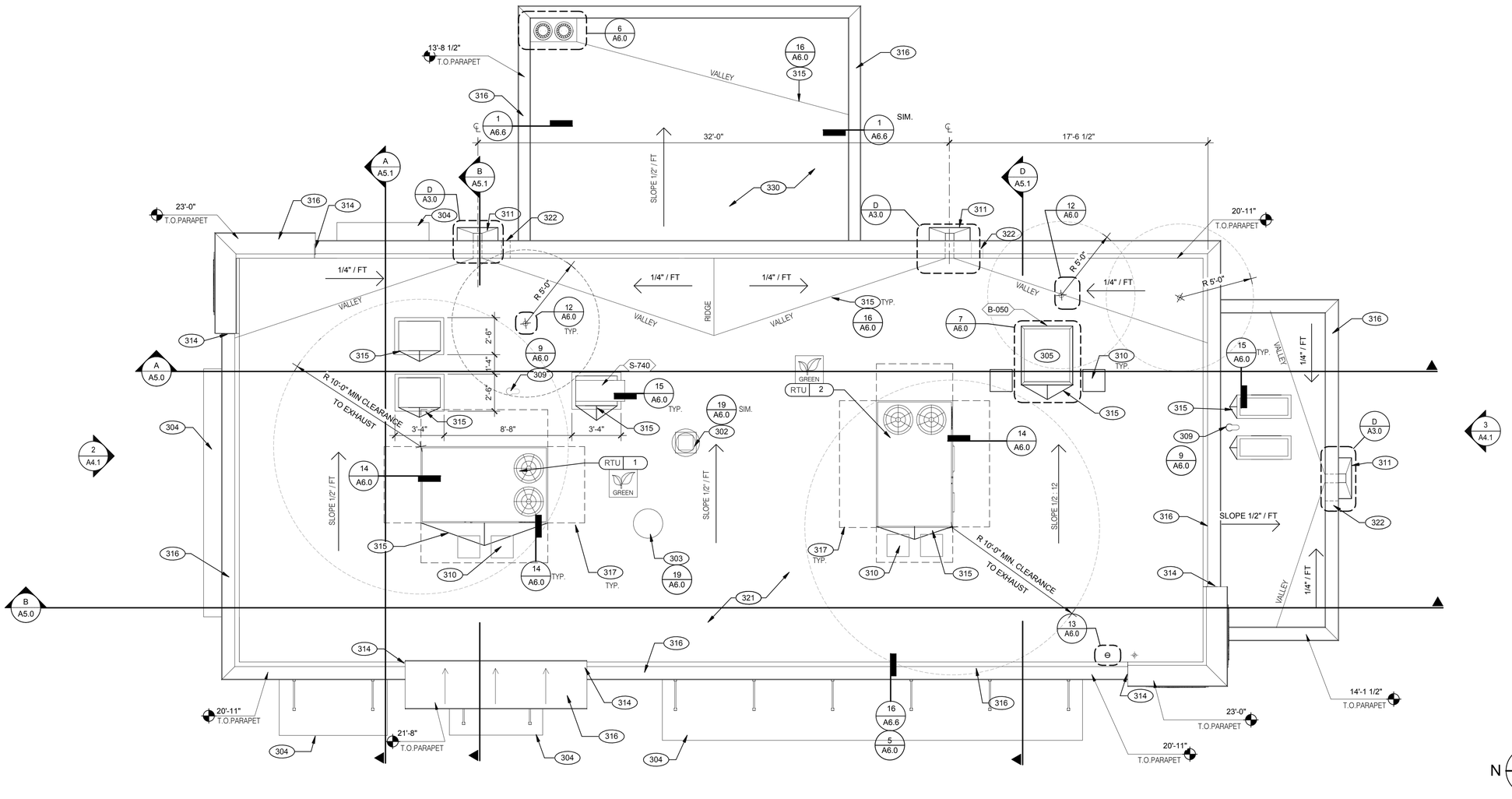
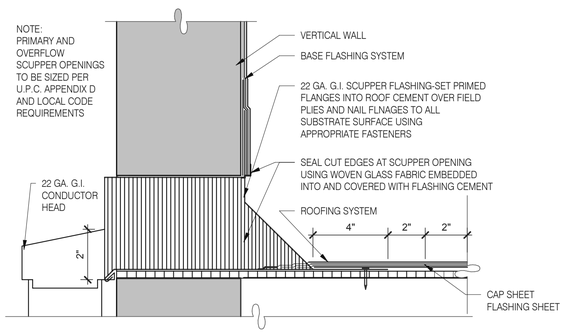
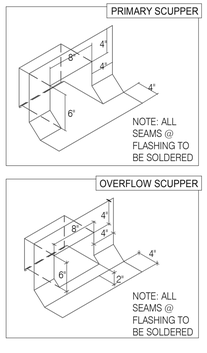


ROOF PLAN 1/4" = 1'-0" | **A**





SCUPPER FLASHING | **D**

WATERPROOFING:

A. PAINT UNDERSIDE OF PARAPET CAP FLASHING WITH FACTORY BONDED PAINT GRIP OR PRIMER
B. TOP NAILING AT PARAPET CAP FLASHING WILL NOT BE ACCEPTED
C. PENETRATIONS IN ROOFING MEMBRANE AND FLASHING SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS OR SPECS.
D. SEE SPECIFICATIONS FOR SEALANT SPECS.
E. ALL SHEETS MTL FLASHONG SHALL BE 22 GA MIN.

MISCELLANEOUS:

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

ROOF PLAN NOTES | **C**

302 KITCHEN HOOD EXHAUST FAN. SEE SHEETS M3.0 AND DETAIL 19/A6.0.
303 RESTROOM EXHAUST FAN. SEE MECHANICAL DRAWINGS AND DETAIL 18/A6.0
304 CANOPY, BY SIGNAGE VENDOR. SEE SCOPE OF WORK.
305 ROOF HATCH. SEE DETAIL 7/A6.0.
309 PIPE HOOD FOR UTILITIES. SEE DETAIL 9/A6.0.
310 24x36 WALK MATS. SEE ROOF SPECS.
311 SCUPPER AND DOWNSPOUT. SEE DETAIL D/A3.0.
314 CHANGE IN PARAPET ELEVATION. SEE SECTION 13/A6.1.
315 ROOF CRICKET.
316 METAL PARAPET CAP.
317 MAINTAIN MANUFACTURERS ROOFTOP UNIT MAINTENANCE CLEARANCE.
321 'DURO-LAST' SINGLE PLY ROOF MEMBRANE OVER MINIMUM R-35 RIGID INSULATION BOARD OVER METAL DECKING OVER STEEL JOISTS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
322 OVERFLOW SCUPPER. SEE DETAIL D/A3.0.
330 'DURO-LAST' SINGLE PLY ROOF MEMBRANE OVER 1/2" COVER BOARD OVER METAL DECKING. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

KEY NOTES | **B**

	DATE	REMARKS
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	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
ROOF PLAN

A3.0

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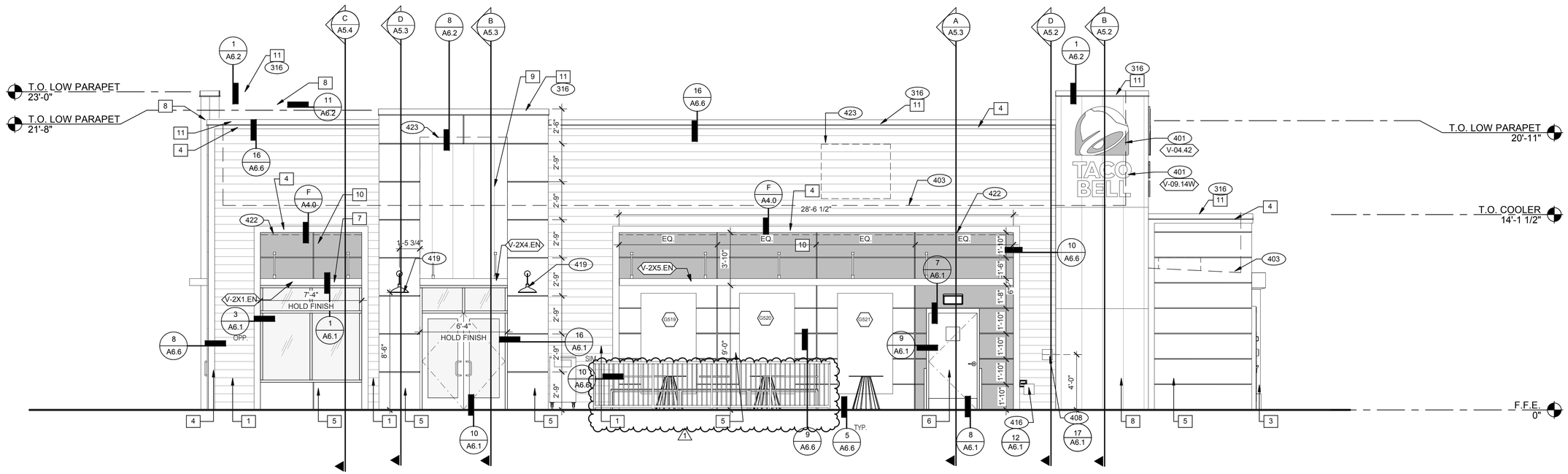
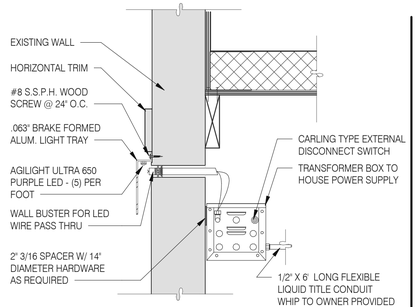


FRONT ELEVATION 1/4" = 1'-0" | **1**



LED WALL WASHER DETAIL | **F**

TYPE MARK	QTY	ITEM DESCRIPTION	LOC
TOWER			
V-09.14W	4	14" WHITE CHANNEL LETTERS VERTICAL	A4.0/ A4.1
V-04.42	4	42" SWINGING BELL PURPLE LOGO FACE LIT	A4.0/ A4.1
EYEBROW AWNINGS			
V-2X1.EN	1	SIDE ENTRY EYEBROW (WINDOW) 7' 3" L 6" H X 3' 0" D, BLACK	A4.0
V-202.EN	1	FRONT EYEBROW (WINDOW) 16' 9" L X 6" H X 1' 4" D, BLACK	A4.1
V-2X3.EN	1	DT EYEBROW (WINDOW) 6' 2" L X 6" H X 1' 4" D, BLACK	A4.1
V-2X4.EN	1	SIDE ENTRY EYEBROW (DOOR) 6' 3" L X 6" H X 3' 0" D, BLACK	A4.0
V-2X5.EN	1	SIDE ENTRY EYEBROW (REAR) 28' 5 1/2" L X 6" H X 3'-0" D, BLACK	A4.0

SIGNAGE | **E**

MISCELLANEOUS
A. SEE SHEET A1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.

SEALERS (REFER TO SPECS)
A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
B. SEALANT AT ALL WINDOW AND DOOR FRAMES AND JAMB. DO NOT SEAL SILL @ WINDOWS.
C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING AND CANOPY.

CRITICAL DIMENSIONS
A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SIGNAGE/BUILDING ELEMENTS DIMENSIONS.

NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLATION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS.

GENERAL NOTES | **C**

X	QTY.	NAME	FAMILY		SIZE	LOCATION
G519		GM - BLUE	E	M02	48x96	SEE A4.1
G520		GM - BELL	E	M02	48x96	SEE A4.1
G521		GM - ORG	E	M02	48x96	SEE A4.1
G523		GM - SKIP THE LINE	E	M02	48x96	SEE A4.1
G524		GM - ORDER AHEAD	E	M02	48x96	SEE A4.1

EXTERIOR ARTWORK SCHEDULE 1" = 1'-0" | **G**

PAINTING
APPLICATOR MUST DO THEIR DUE DILIGENCE WITH PREPARATION.
PRIMER: 1 COAT SW A24W8300
FINISH: 2 COATS SW A82-100 SERIES, MATCH COLORS FROM MATERIAL SCHEDULE. A-100 EXTERIOR LATEX SATIN.

PAINT NOTES | **A**

SYMBOL	ITEM/MATERIAL	MANUFACTURER	MATERIAL SPEC	COLOR	CONTACT INFORMATION
1	SIDING	JAMES HARDIE	ARTISAN V-GROOVE 144"L X 8.25"W; 7" EXPOSURE COMES PRIMED FOR PAINT	WORLDLY GRAY (SW7043), SEMI-GLOSS	SEE C / A 7.2
2	SCUPPERS	-	-	WORLDLY GRAY (SW7043), SEMI-GLOSS	
3	DOWN SPOUTS	-	-	WORLDLY GRAY (SW7043), SEMI-GLOSS	
4	HARDIE TRIM	JAMES HARDIE	HARDIE TRIM 5/4 SMOOTH 1"x5.5"	CYBERSPACE (SW7076), SEMI-GLOSS	SEE C / A 7.2
5	HARDIE REVEAL PANEL	JAMES HARDIE	REVEAL PANEL SYSTEM	CYBERSPACE (SW7076), SEMI-GLOSS	SEE C / A 7.2
6	HOLLOW METAL DOOR	-	-	SW PURPLE TB2603C, SEMI-GLOSS	
7	AWNINGS	SIGNAGE VENDOR	-	BLACK BY THE SIGNAGE VENDOR	
8	CORNER TOWER	WESTERN STATE	T-GROOVE 24GA PAINTED 18" PANEL	WEATHERED RUSTIC	SEE C / A 7.2
9	RECESS OF SIDE ENTRY PORTAL	WESTERN STATE	T-GROOVE 24GA PAINTED 18" PANEL	WEATHERED RUSTIC	SEE C / A 7.2
10	HARDIE REVEAL PANEL	JAMES HARDIE	REVEAL PANEL SYSTEM	SW PURPLE TB2603C, SEMI-GLOSS	SEE C / A 7.2
11	METAL PARAPET CAP	-	24GA GALVANIZED	CYBERSPACE (SW7076) KYNAR 500 COATING	

EXTERIOR FINISH SCHEDULE | **D**

316 METAL PARAPET CAP.
401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
403 DASHED LINE INDICATES ROOF BEYOND.
408 CO2 FILLER VALVE & COVER.
416 HOSE BIBB BOX AT 18" A.F.F. SEE PLUMBING DRAWINGS.
419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
422 PURPLE LIGHT WALL WASHER, PROVIDED BY SIGNAGE VENDOR, REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
423 OUTLINE OF RTU BEYOND.

KEY NOTES | **B**

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TACO BELL

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ENDEAVOR 2.0
EXTERIOR ELEVATIONS

A4.0

PLOT DATE: 5/3/2022 8:06:06 AM

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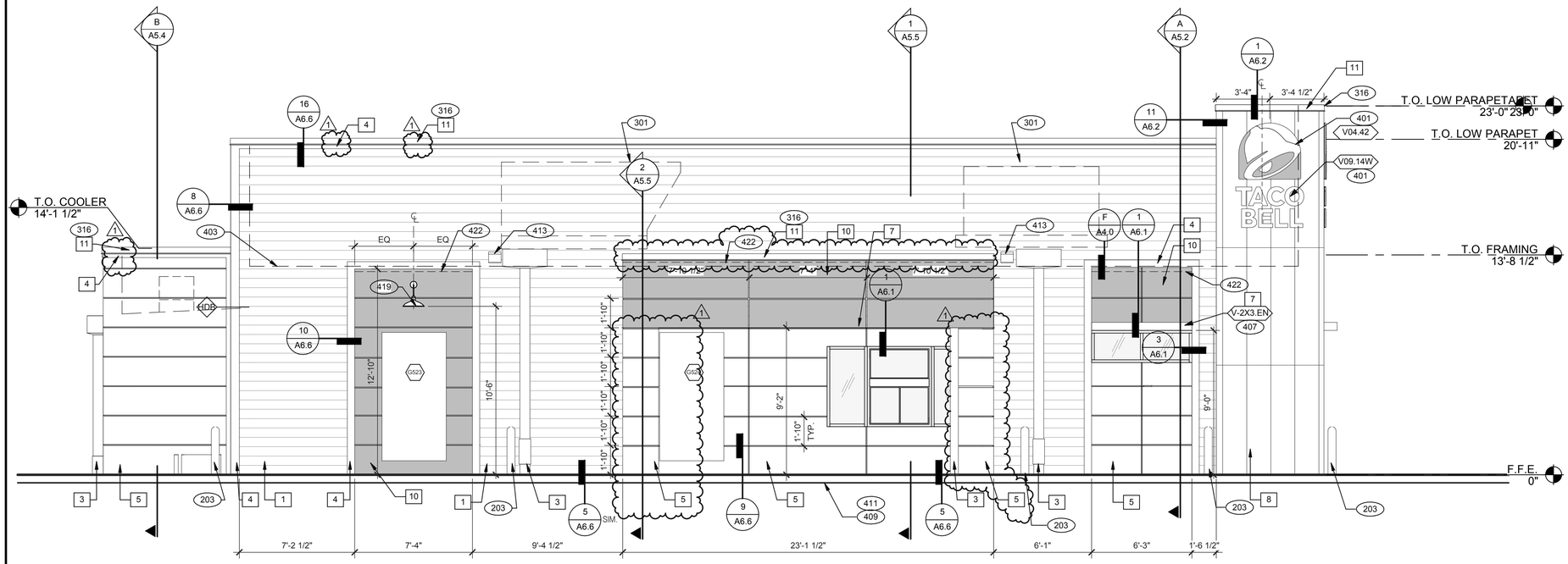
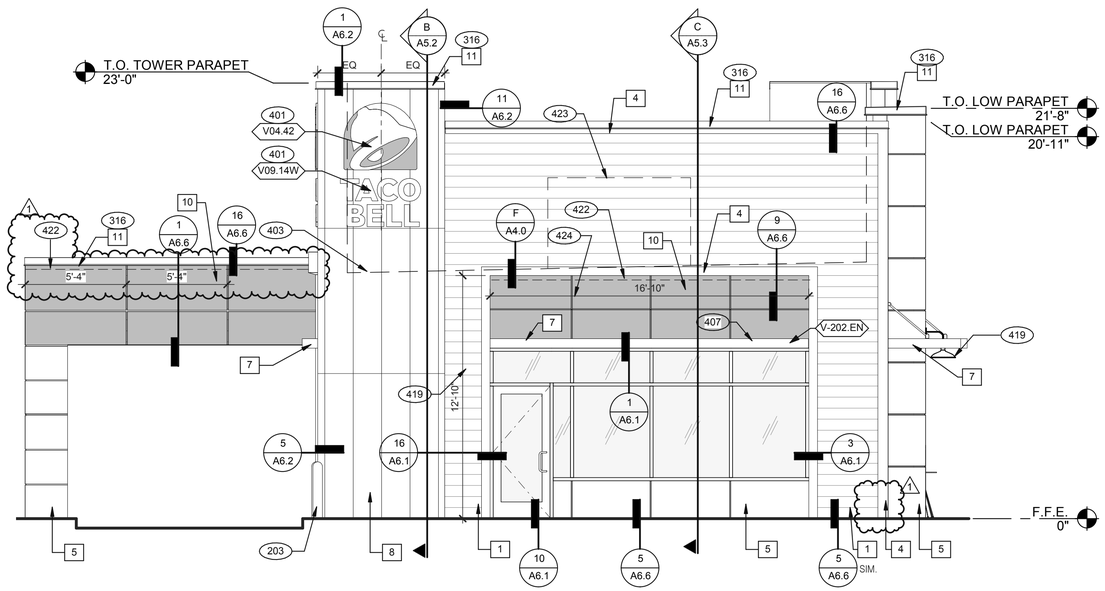


REAR ELEVATION 1/4" = 1'-0" | **1**

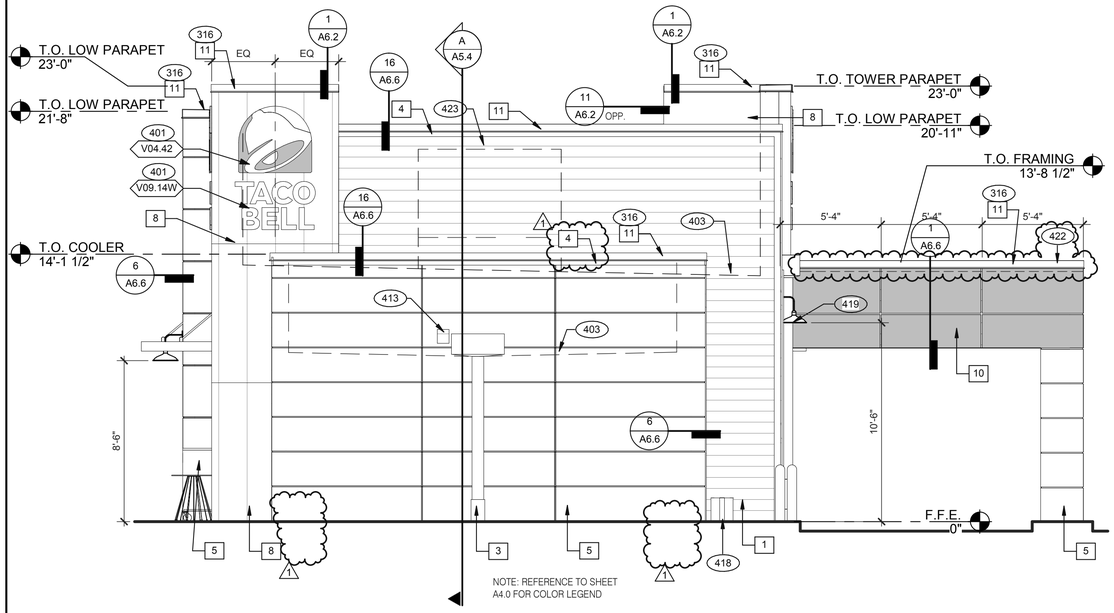
SEE SHEET A4.0 FOR FINISH SCHEDULE

203	PIPE BOLLARD. SEE CIVIL DRAWINGS.
301	ROOFTOP UNIT. INSTALL PLUMB AND LEVEL. SEE MECHANICAL DRAWINGS
316	METAL PARAPET CAP.
401	BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
403	DASHED LINE INDICATES ROOF BEYOND.
407	METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
409	ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
411	CONCRETE CURB.
413	OVERFLOW SCUPPER. REFER TO D/A3.0.
418	GAS METER.
419	EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
422	PURPLE LIGHT WALL WASHER, PROVIDED BY SIGNAGE VENDOR, REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
423	OUTLINE OF RTU BEYOND.
424	ALIGN REVEAL WITH VERTICAL MULLION.

KEY NOTES | **A**



FRONT ELEVATION 1/4" = 1'-0" | **2**



REAR ELEVATION 1/4" = 1'-0" | **3**

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
1	04.28.22	NTP/ Plan Review Comments
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
EXTERIOR ELEVATIONS

A4.1

PLOT DATE: 5/3/2022 8:06:30 AM

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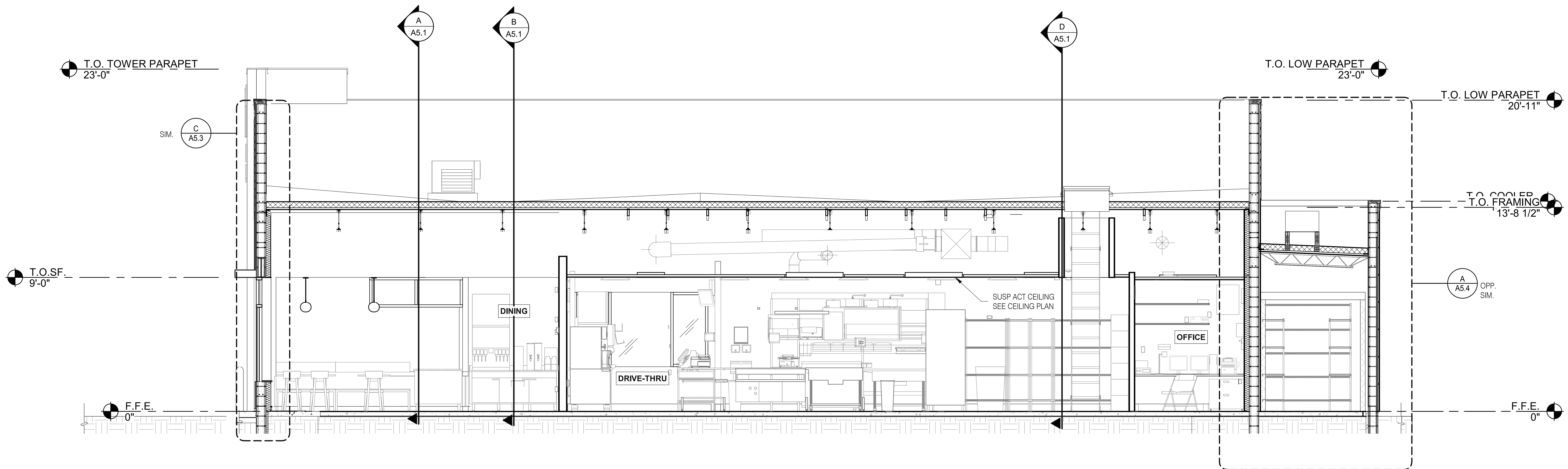
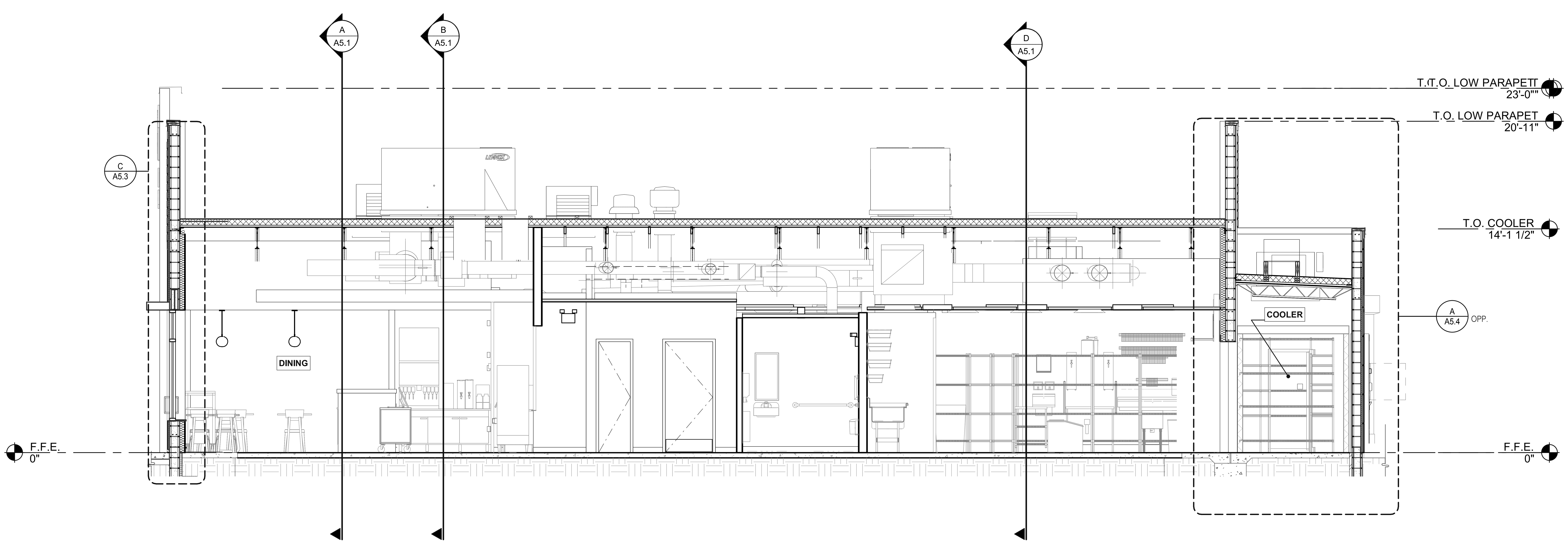


EAST/WEST BUILDING SECTION 1/4" = 1'-0" A



EAST/WEST BUILDING SECTION 1/4" = 1'-0" B

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Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

DATE	REMARKS
03.02.22	Issued for Permit
05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2021088.17

TACO BELL

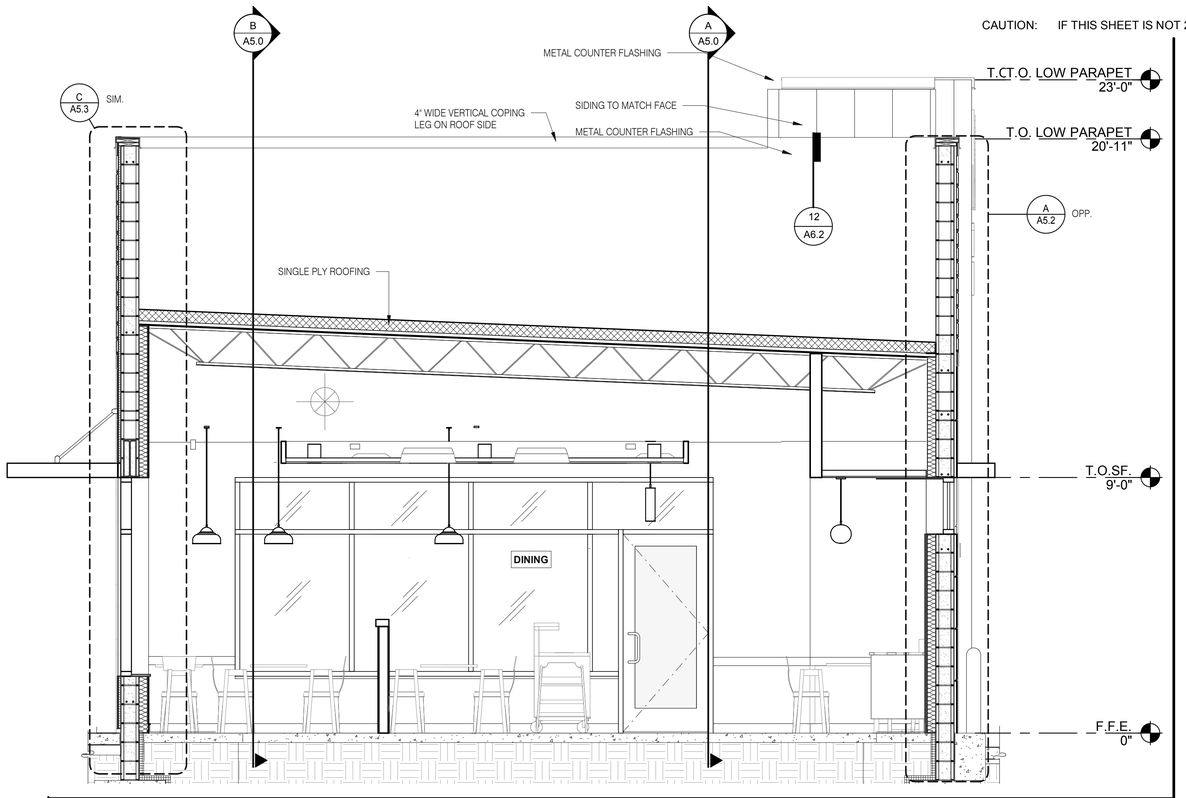
5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
BUILDING SECTIONS

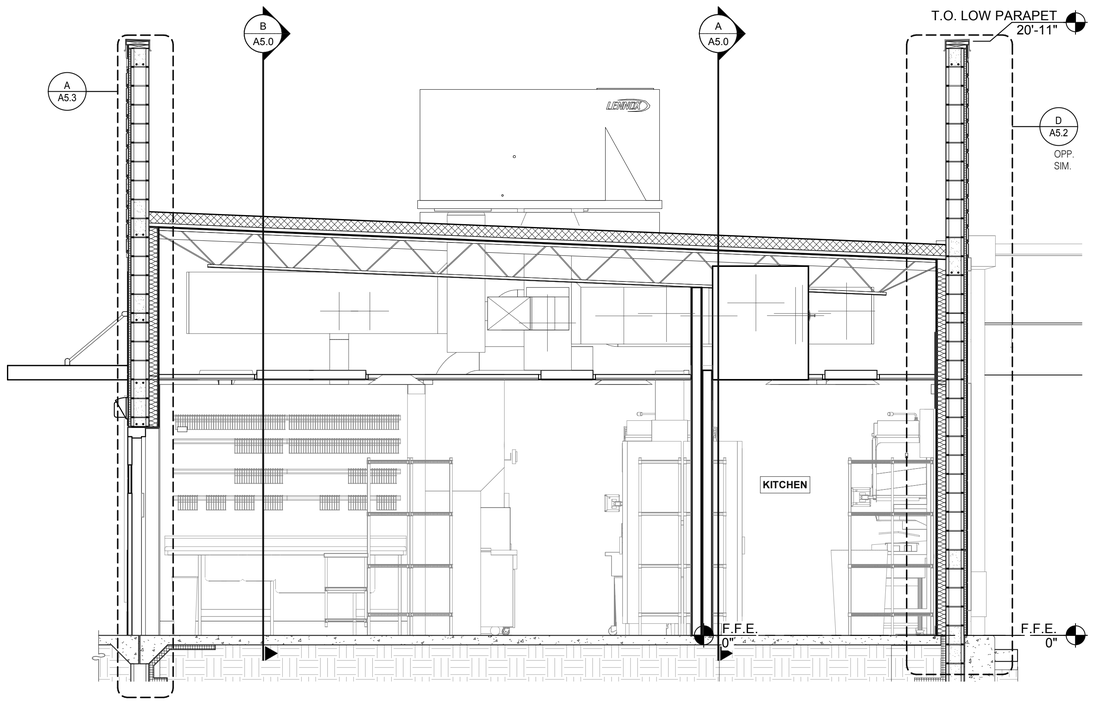
A5.0

PLOT DATE: 5/3/2022 8:07:06 AM

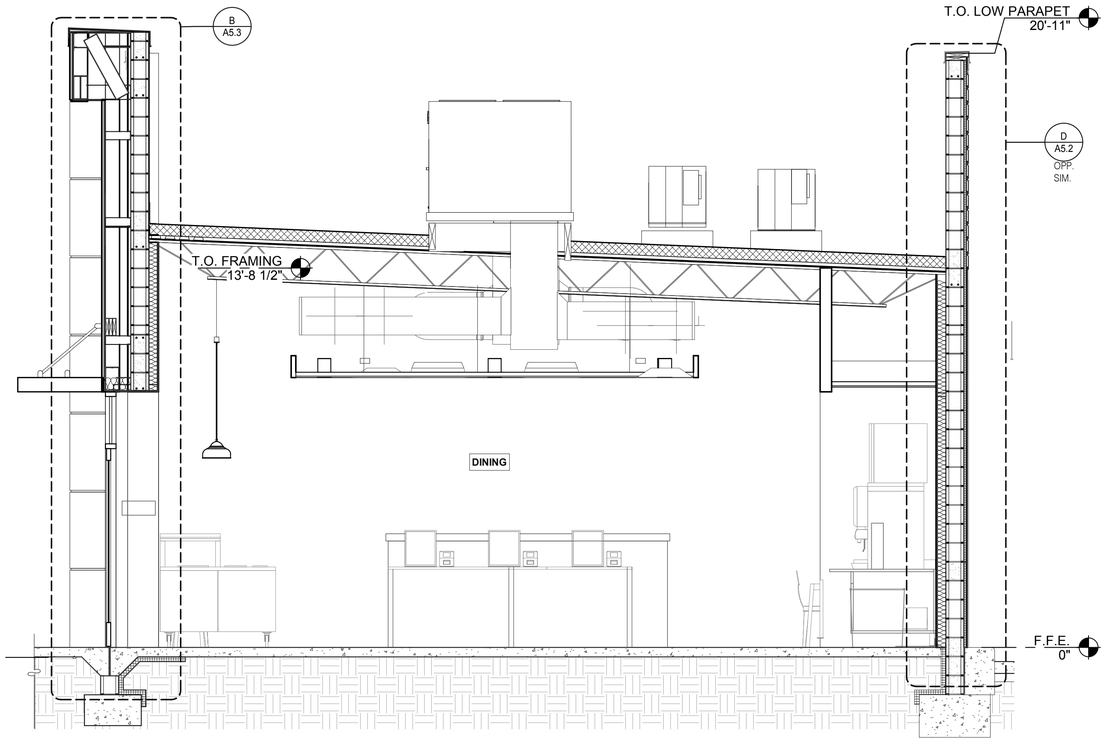
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



LEFT TO RIGHT BUILDING SECTION 3/8" = 1'-0" | **A**



LEFT TO RIGHT BUILDING SECTION 3/8" = 1'-0" | **D**



LEFT TO RIGHT BUILDING SECTION 3/8" = 1'-0" | **B**

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

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CONTRACT DATE:	01.25.22
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PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
BUILDING SECTIONS

A5.1

PLOT DATE: 5/3/2022 8:07:37 AM

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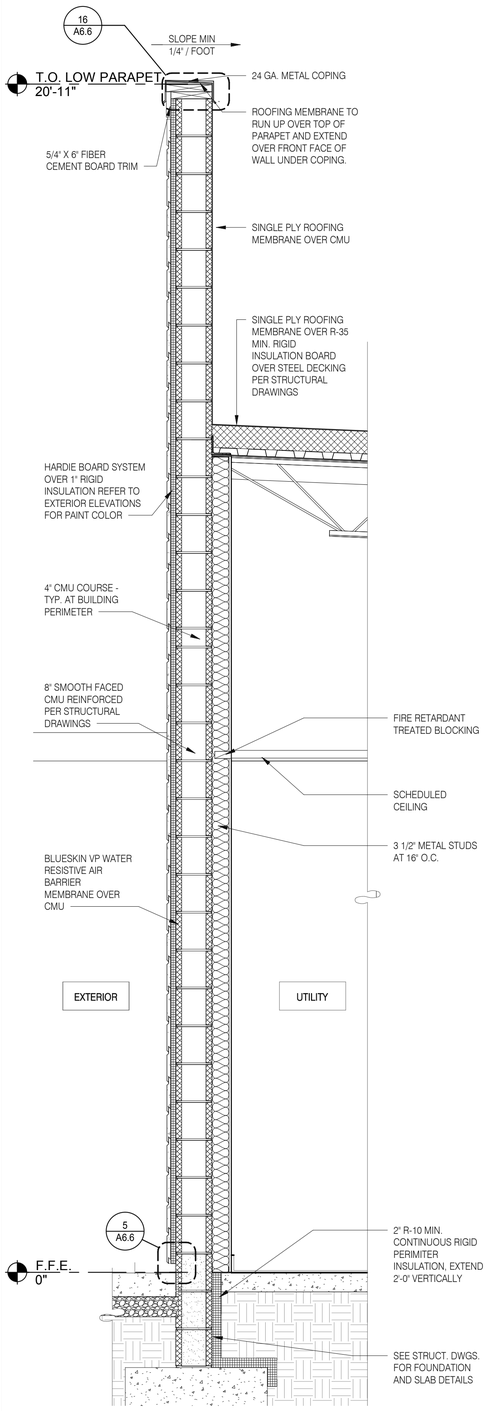
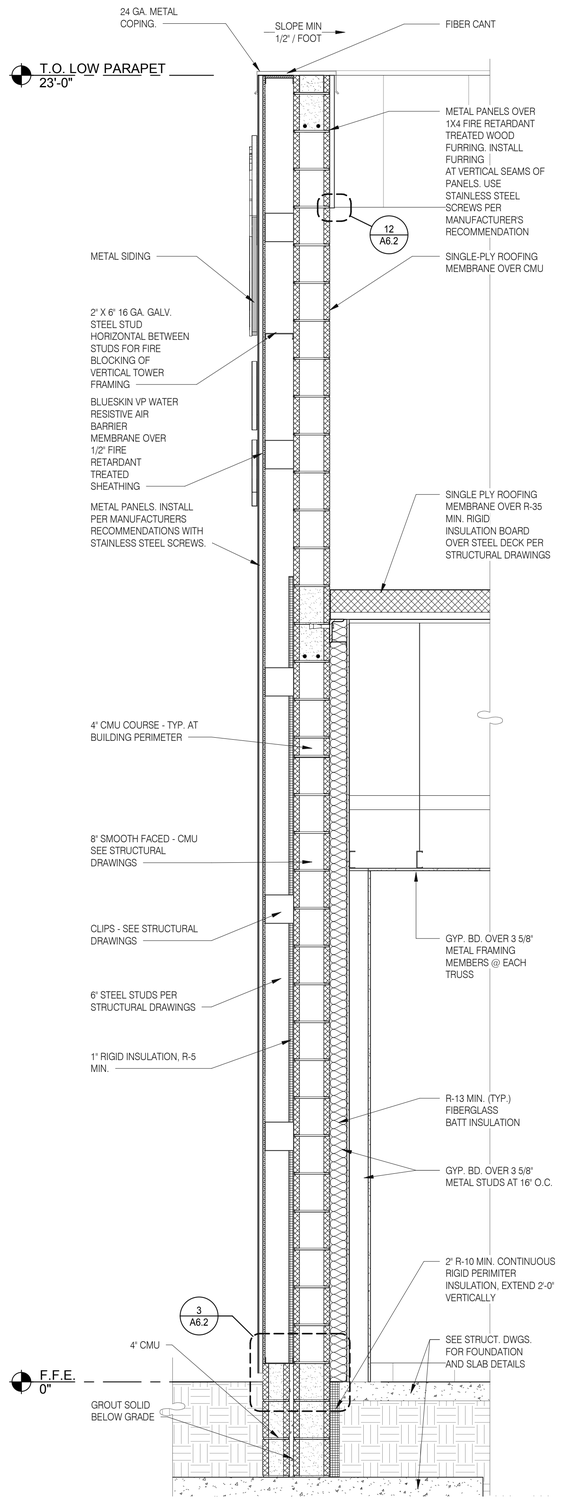
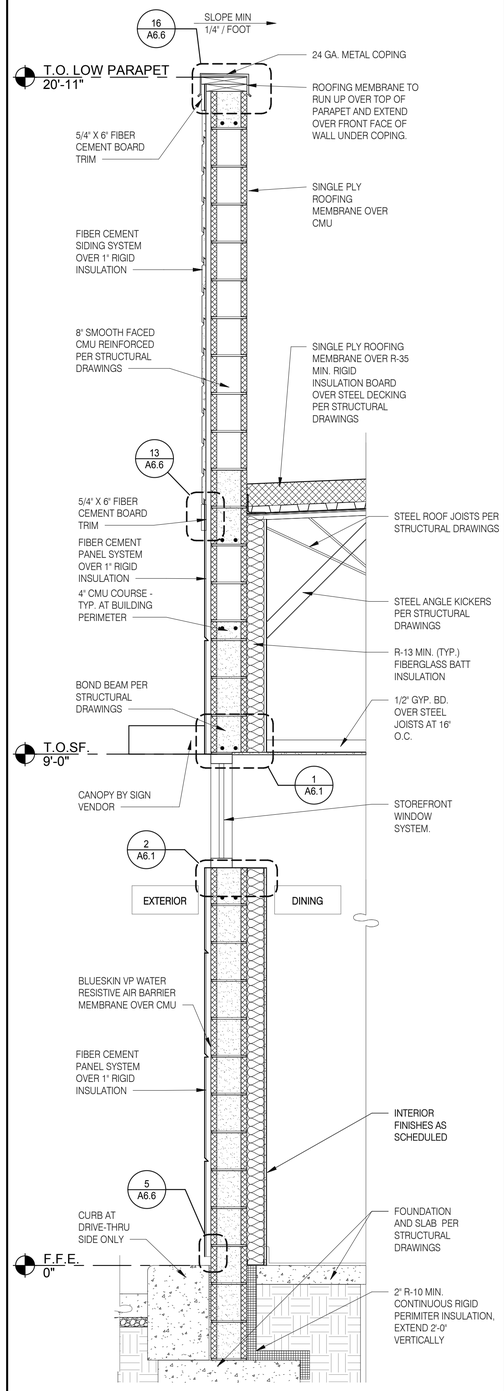


TYPICAL WALL SECTION 3/4" = 1'-0" | **D**



SECTION AT DINING - TOWER 3/4" = 1'-0" | **B**



WALL SECTION AT DINING 3/4" = 1'-0" | **A**

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
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	05.05.22	Issued for Bid

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PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
WALL SECTIONS

A5.2

PLOT DATE: 5/3/2022 8:07:41 AM

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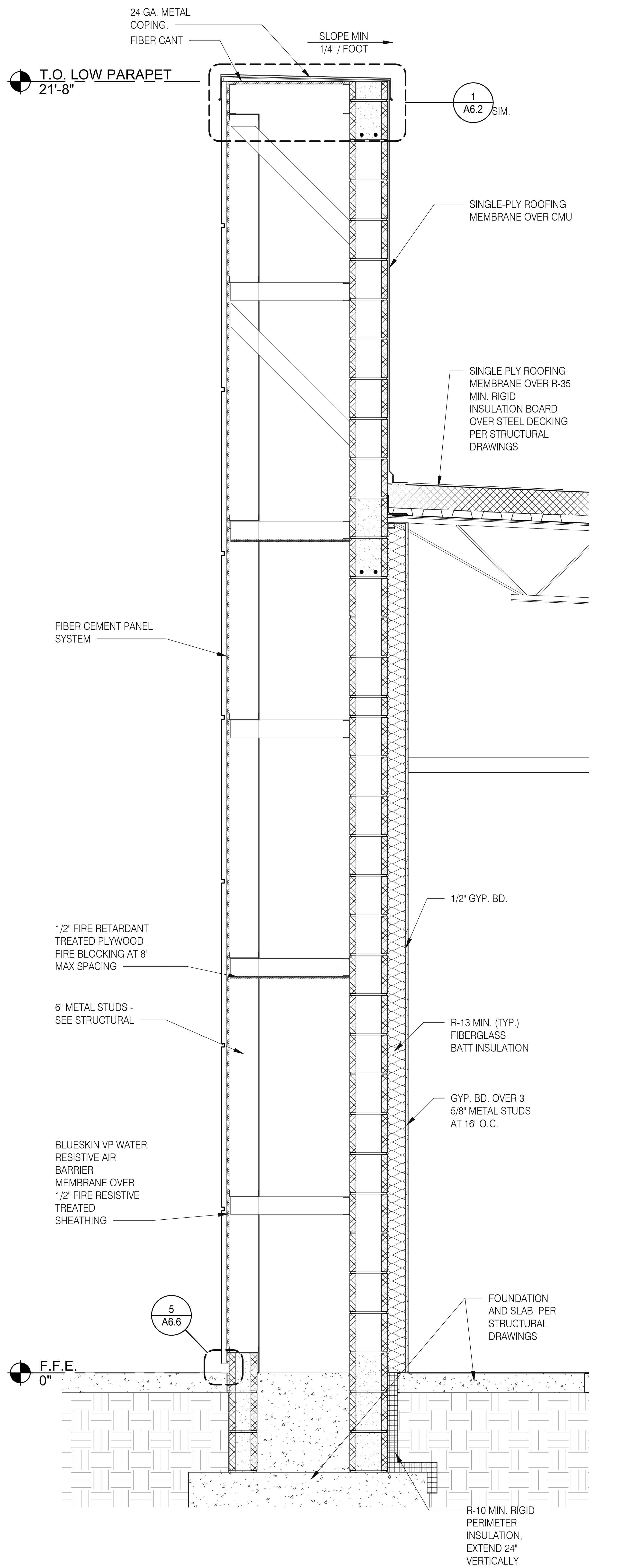
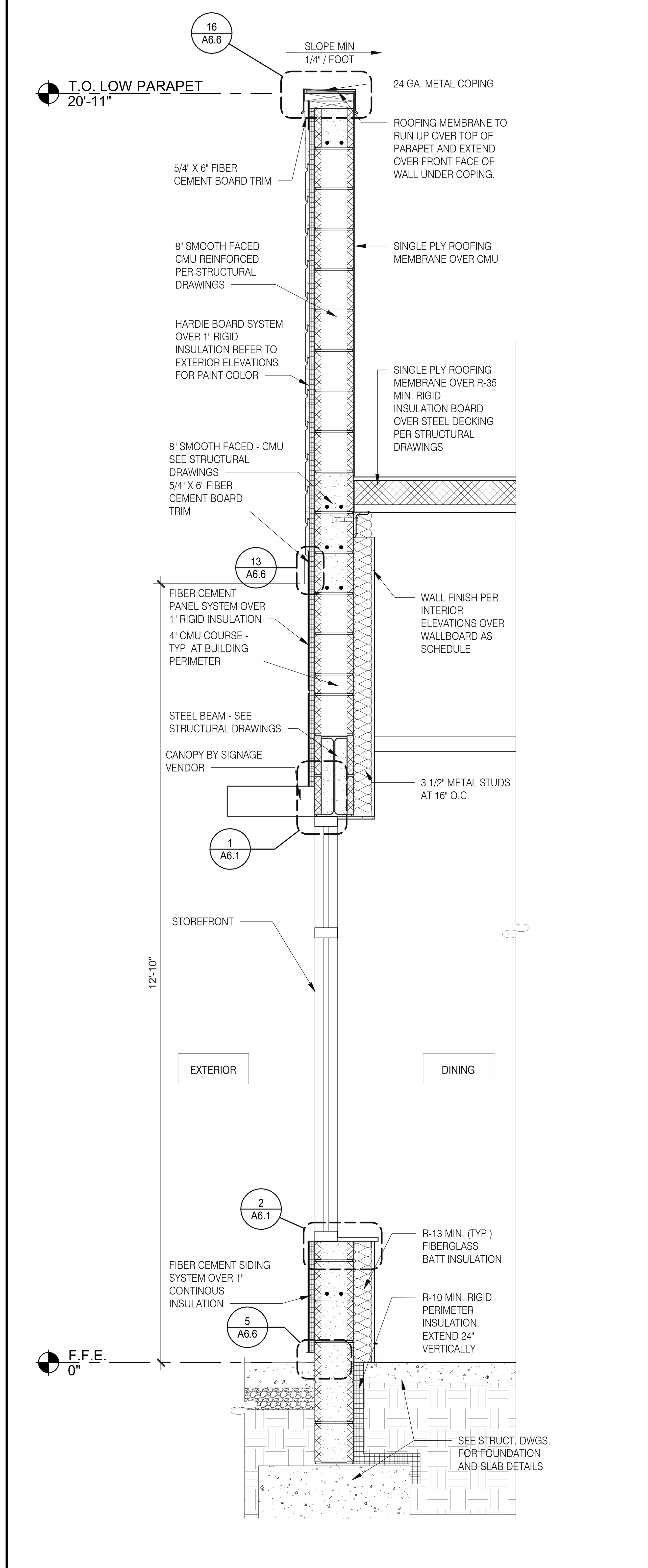
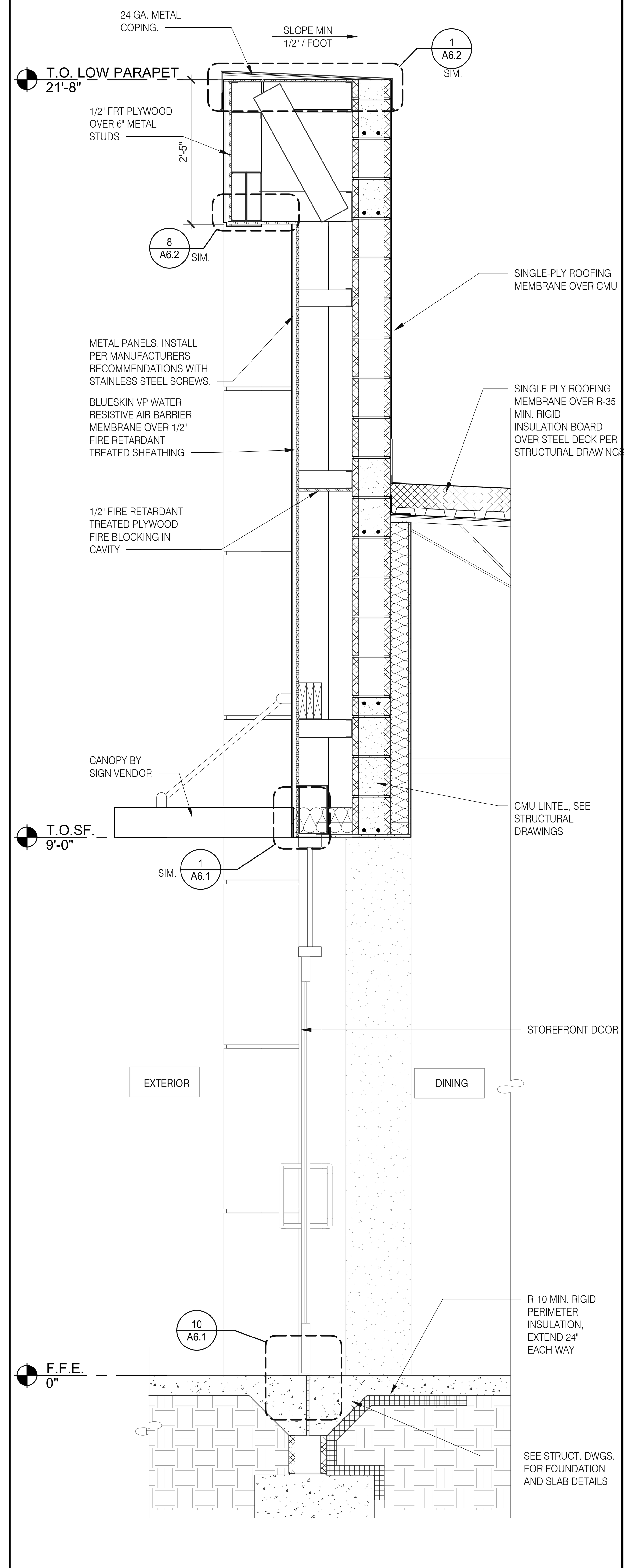
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



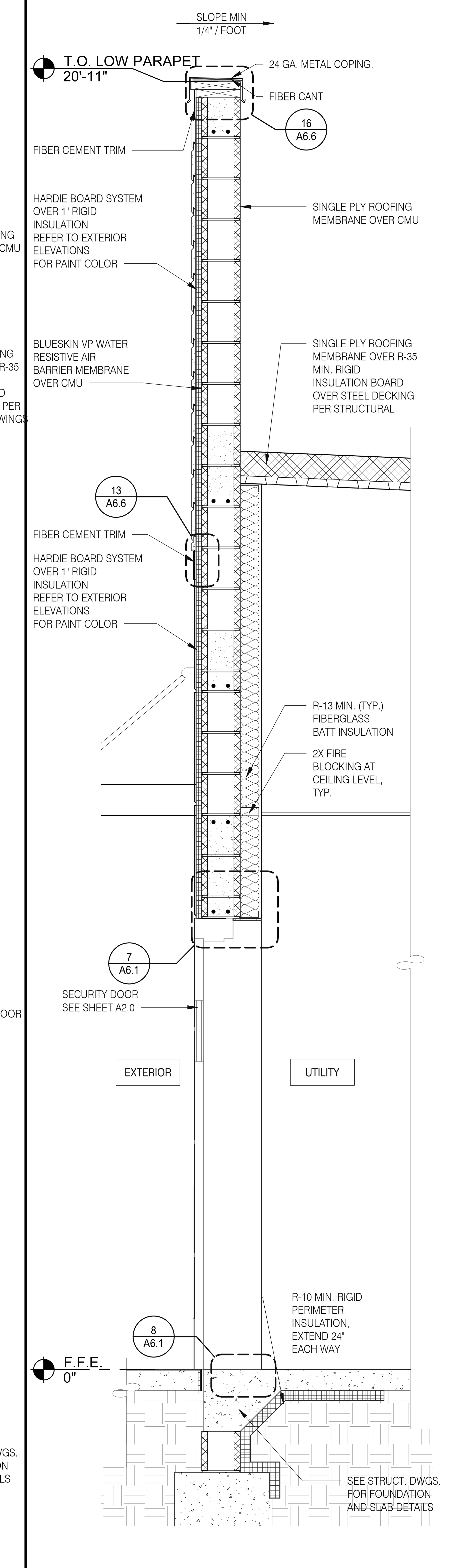
FRONT WALL SECTION 3/4" = 1'-0" **D**



FRONT WALL SECTION 3/4" = 1'-0" **C**



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



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

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

DATE	REMARKS
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05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
WALL SECTIONS

A5.3

PLOT DATE: 5/3/2022 8:07:46 AM

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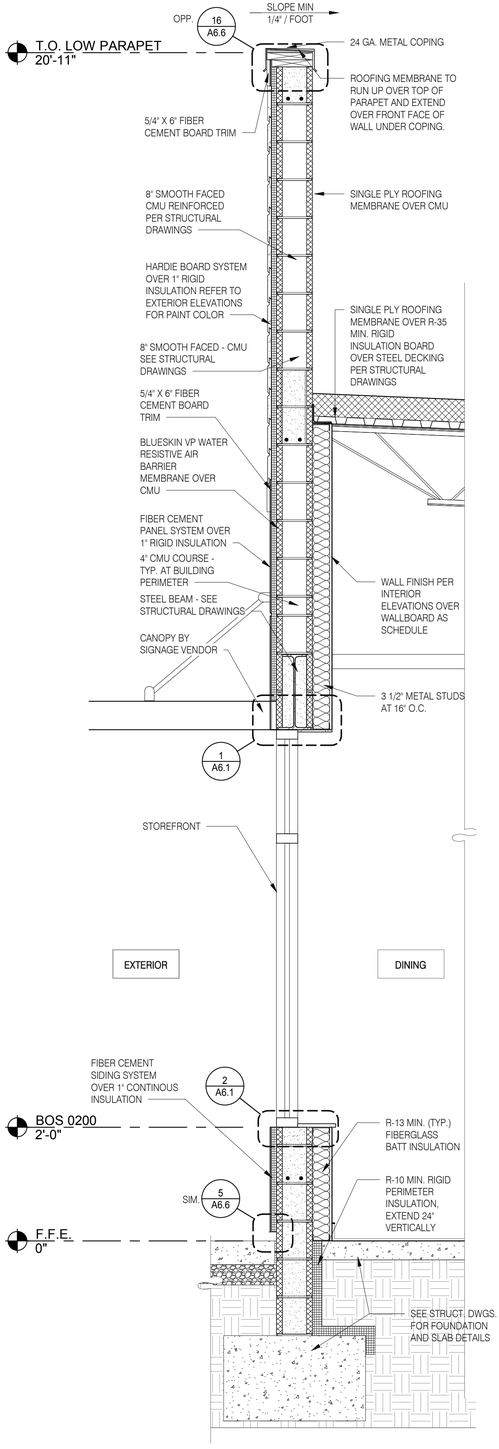
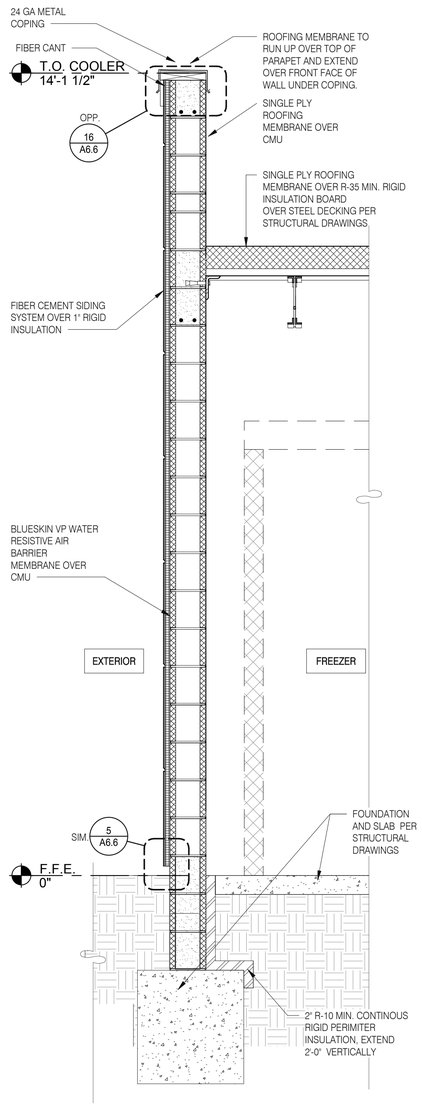
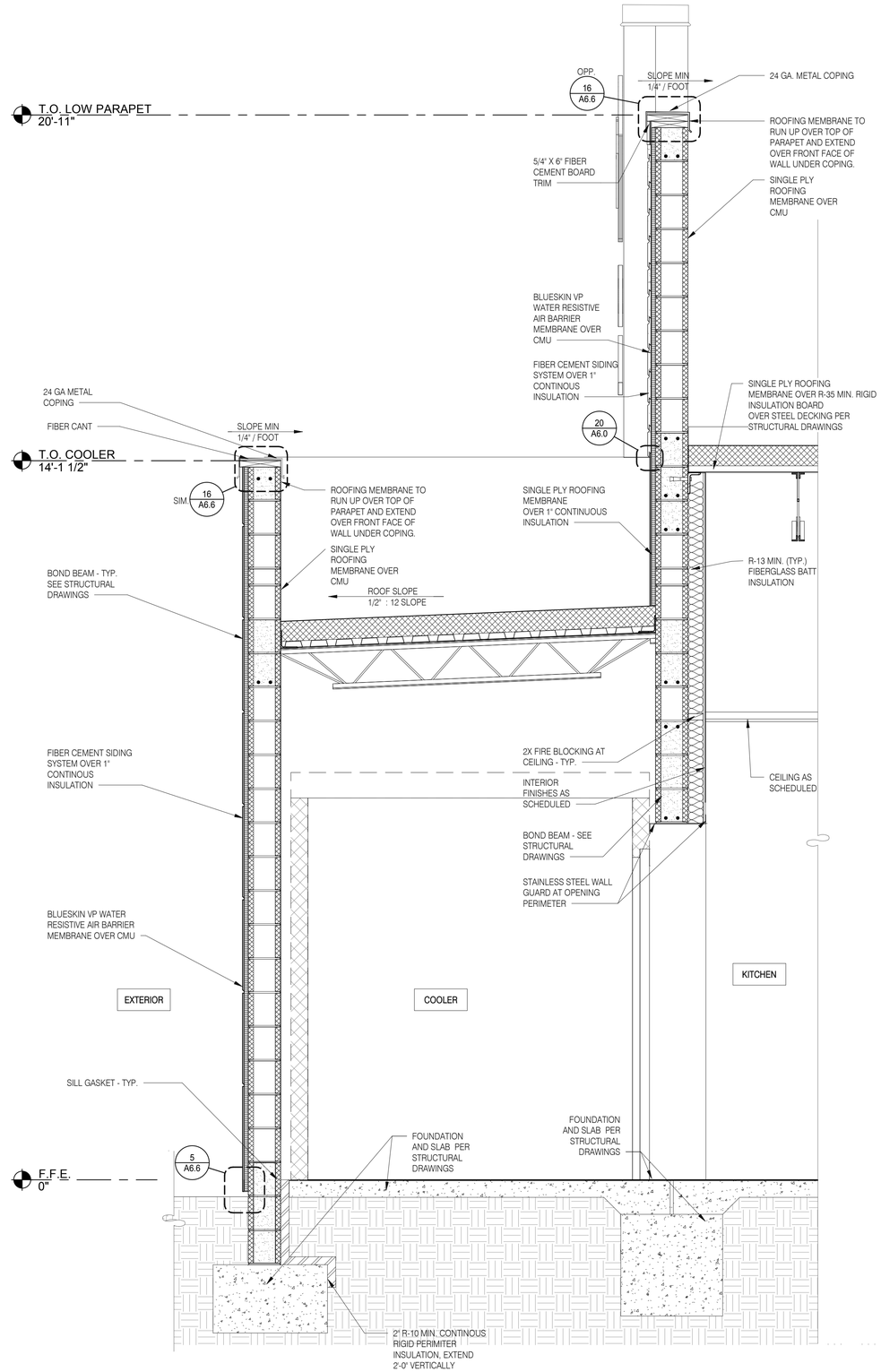


WALL SECTION AT STOREFRONT 3/4" = 1'-0" | **C**



WALL SECTION 3/4" = 1'-0" | **B**



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

Mark S. Salopek, LLC

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RICHFIELD, OH 44286
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BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
WALL SECTIONS

A5.4

PLOT DATE: 5/3/2022 8:07:50 AM

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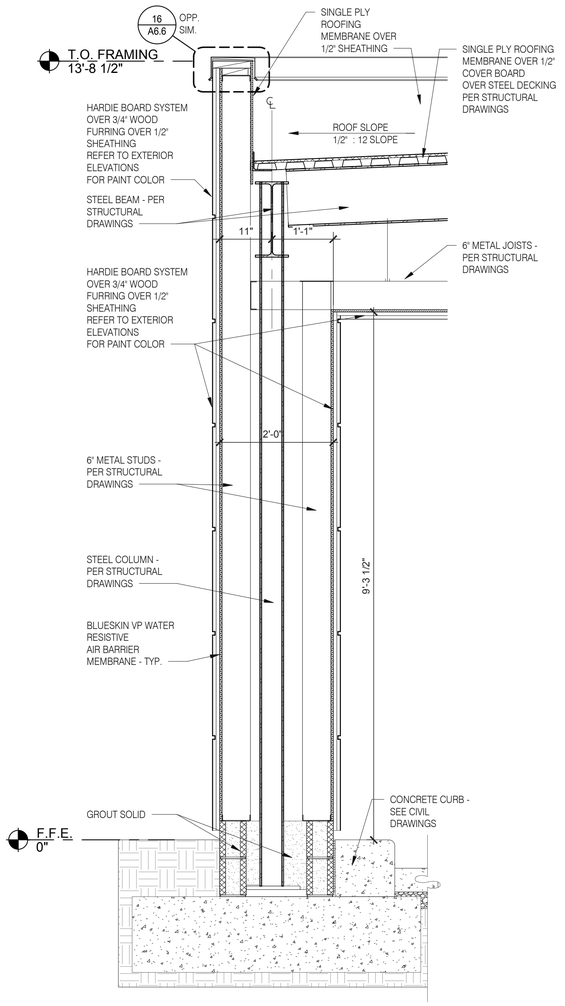
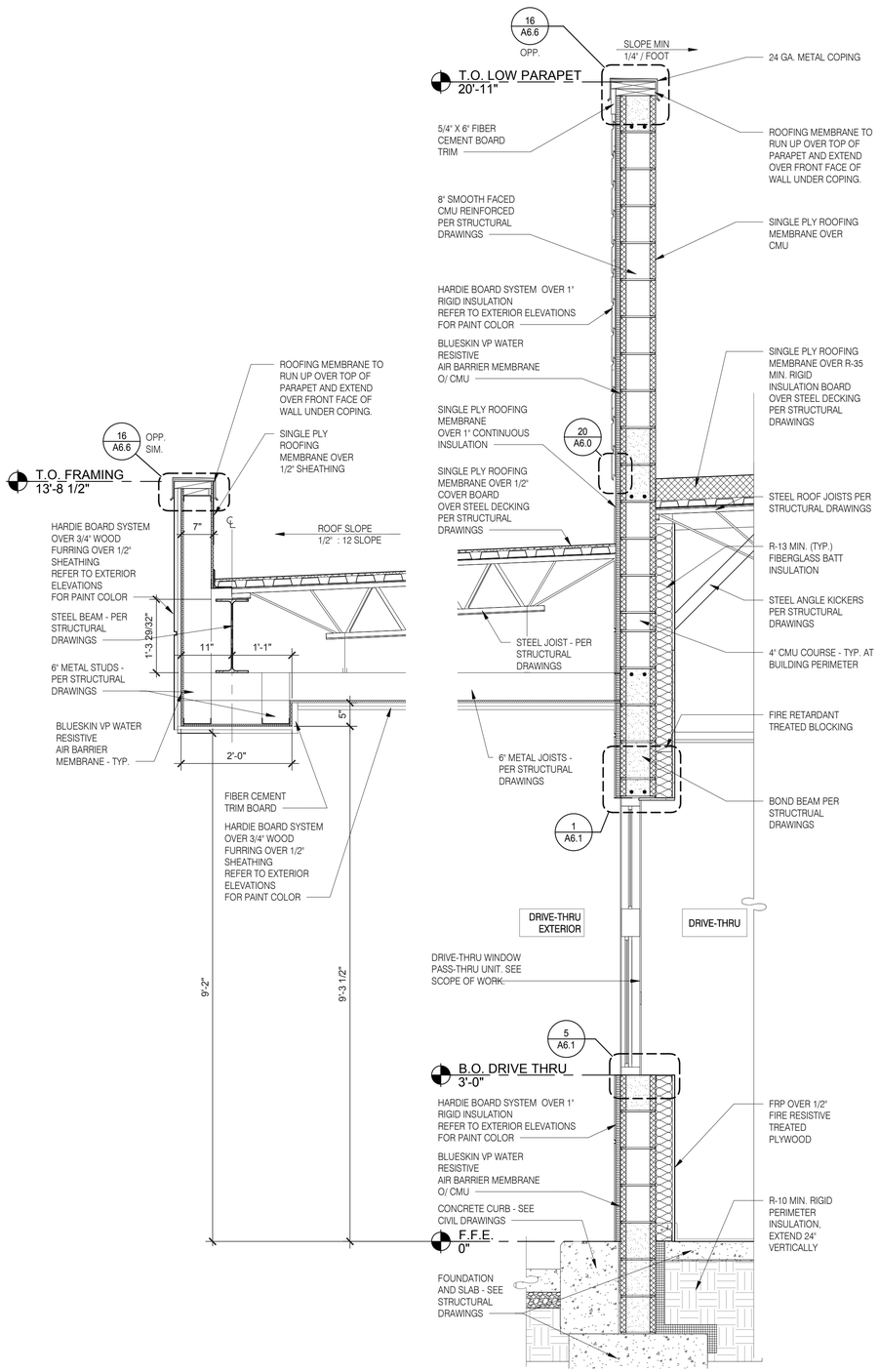


SECTION AT PORTE COCHERE LEG 3/4" = 1'-0" **2**



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

Mark S. Salopek, LLC

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RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

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CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
WALL SECTIONS

A5.5

PLOT DATE: 5/3/2022 8:07:54 AM

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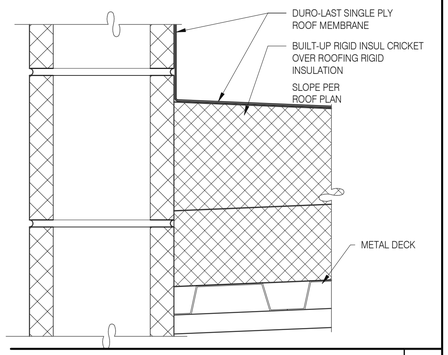
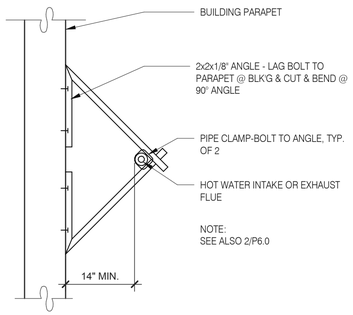
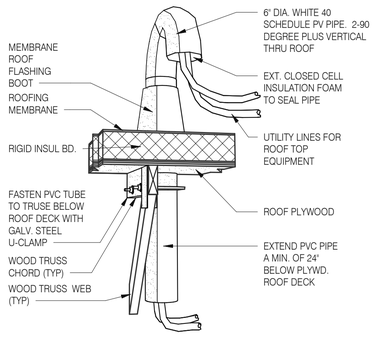
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



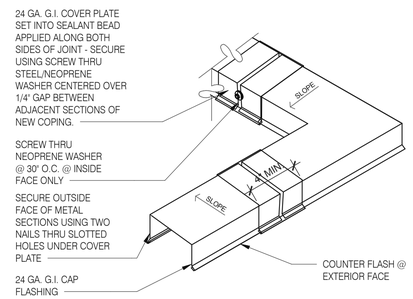
CRICKET 3" = 1'-0" | **16**



W.H. FLU / INTAKEN PIPE SUPPORT 3" = 1'-0" | **13**

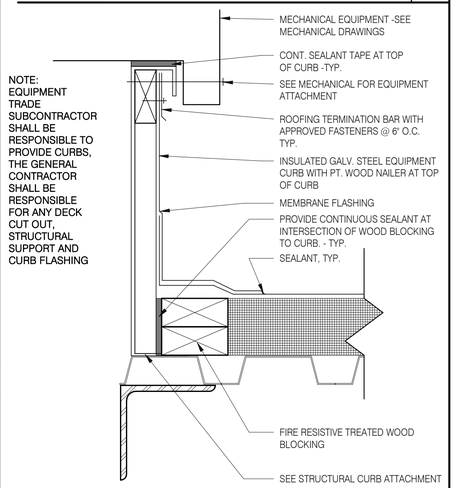


PIPE HOOD N.T.S. | **9**

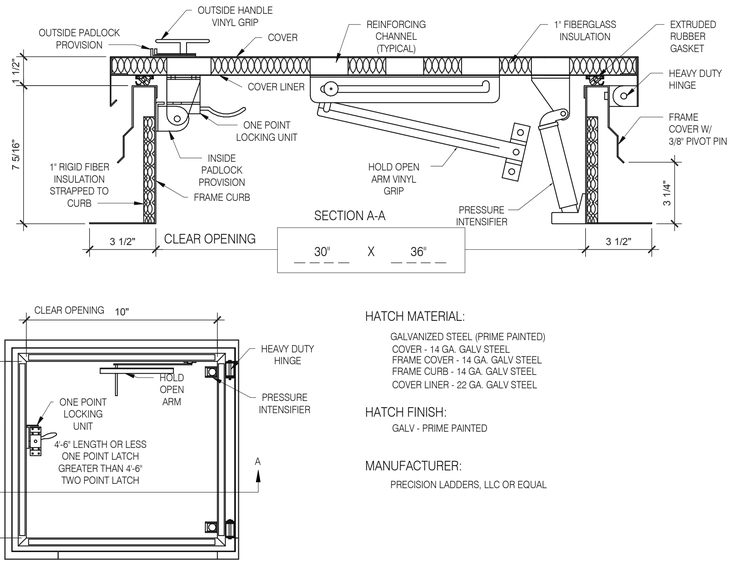


NOTE: JOINTS ARE TO OCCUR AT 10'-0" MAX.

COPING JOINT N.T.S. | **5**



HVAC CURB 3" = 1'-0" | **14**



HATCH MATERIAL:

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

HATCH FINISH:

GALV - PRIME PAINTED

MANUFACTURER:

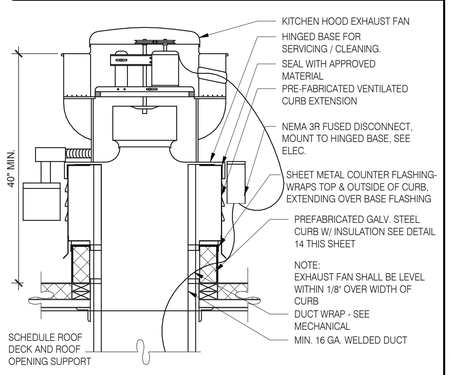
PRECISION LADDERS, LLC OR EQUAL

NOTES:

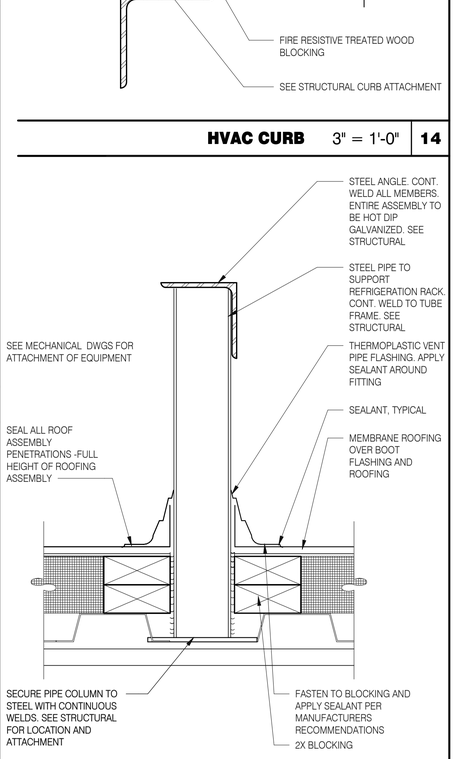
(1) ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS.

(2) FOR OPERATING EFFICIENCY, HATCH HARDWARE VARIES BY SIZE. EXAMPLE MODEL#: PH- A/G OPENING SIZE IN FEET-INCHES (PH-G2630)

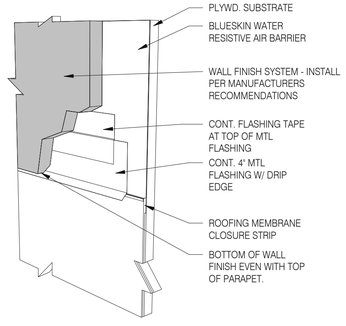
ROOF LADDER AND HATCH 3" = 1'-0" | **7**



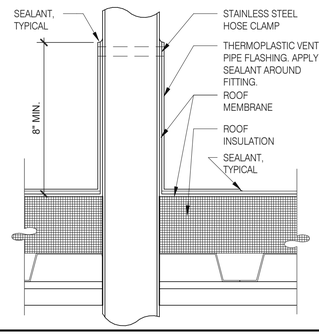
EXHAUST FAN CURB 3" = 1'-0" | **19**



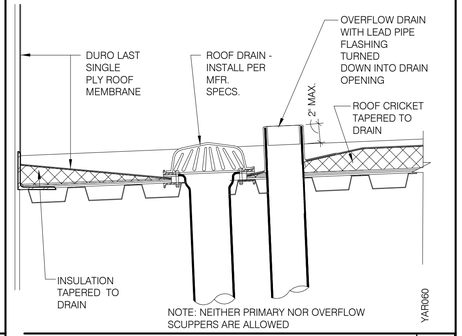
EQUIPMENT PLATFORM SUPPORT 3" = 1'-0" | **15**



WALL FINISH TO BASE FLASHING 3" = 1'-0" | **20**

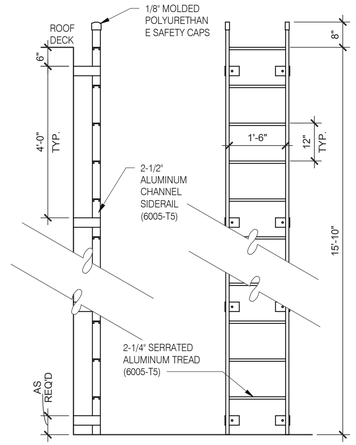


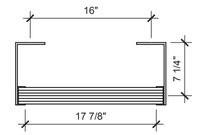
SEALED PIPE FLASHING 3" = 1'-0" | **12**



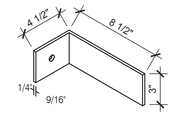
ROOF DRAIN1 1/2" = 1'-0" | **6**

NOTE: G.C. TO PROVIDE BLOCKING AND INSTALL THE LADDER.





PLAN



BRACKET DETAIL

ROOF LADDER N.T.S. | **4**

Mark S. Salopek, LLC

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SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
CONSTRUCTION DETAILS ROOF

A6.0

PLOT DATE: 5/3/2022 8:08:01 AM

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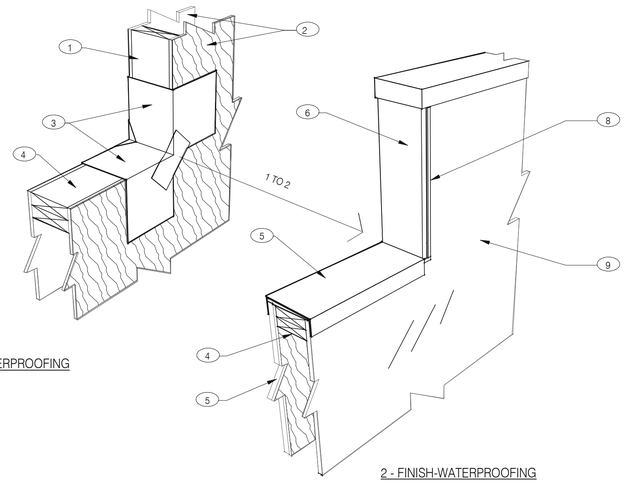


1 - PRE-WATERPROOFING

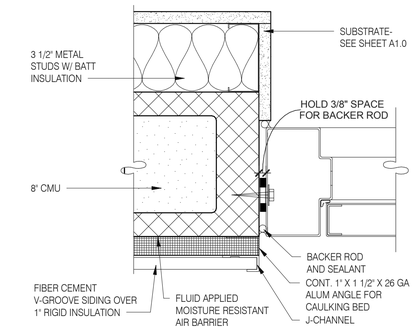
2 - FINISH-WATERPROOFING

NOTES

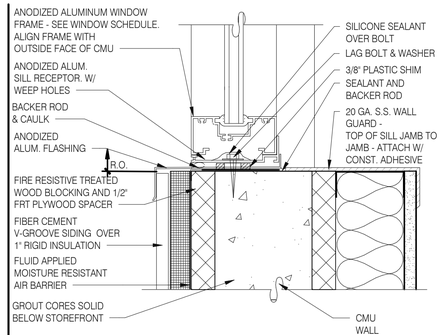
1. 2X WOOD STUDS
2. PLYWOOD SUBSTRATE FOR EXTERIOR WALLS
3. FLASHING TAPE AT ALL VERTICAL PARAPET TRANSITIONS. EXTEND TAPE 12" OUTWARD AND UPWARD FROM CORNER AS SHOWN. LAP CORNERS WITH ANGLED TAPE AS SHOWN TO INSURE FULL COVERAGE AT CORNERS
4. DOUBLE 2X TOP PLATE.
5. PAINTED 24 GAUGE PARAPET COPING. 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.

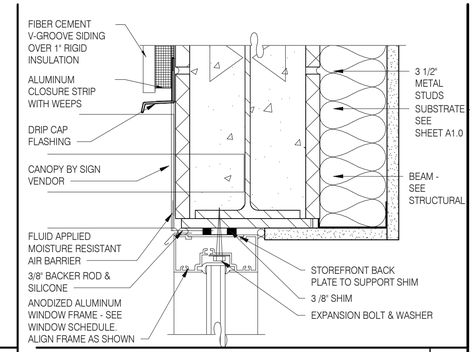
PARAPET CAP & TRANSITION 1" = 1'-0" | 13



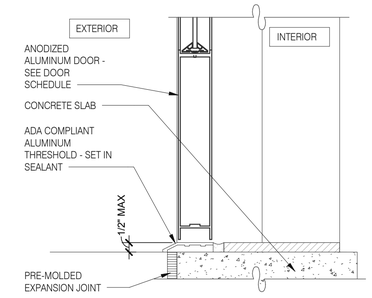
JAMB SERVICE DOOR 3" = 1'-0" | 9



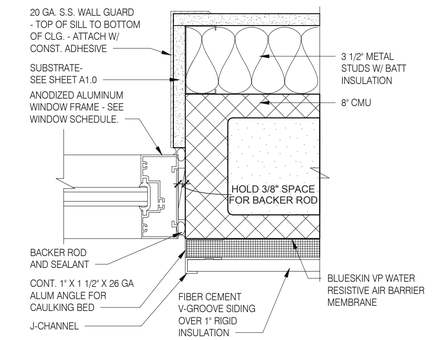
WINDOW SILL @ DRIVE THRU 3" = 1'-0" | 5



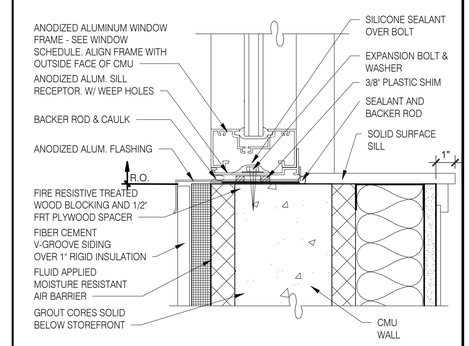
TYPICAL WINDOW HEAD W/ CANOPY 3" = 1'-0" | 1



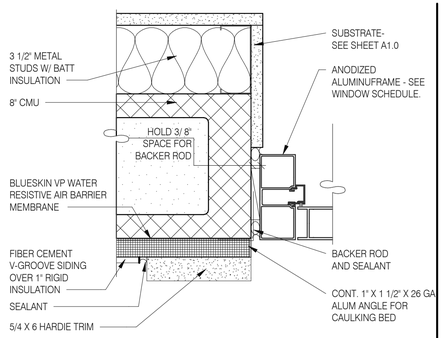
STOREFRONT DOOR SILL 3" = 1'-0" | 10



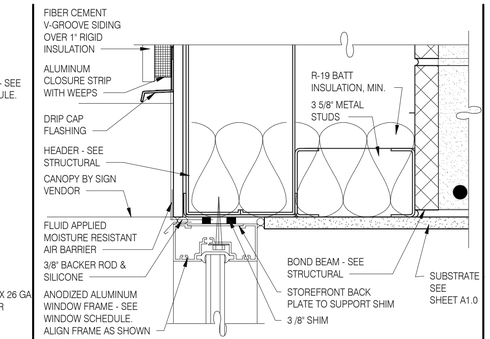
WINDOW JAMB @ DRIVE THRU 3" = 1'-0" | 6



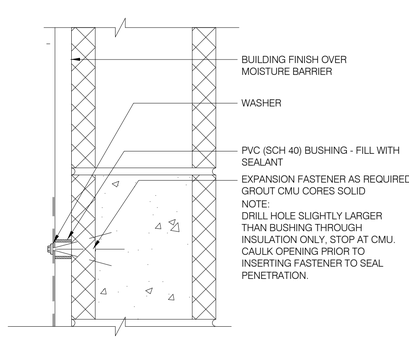
TYPICAL WINDOW SILL 3" = 1'-0" | 2



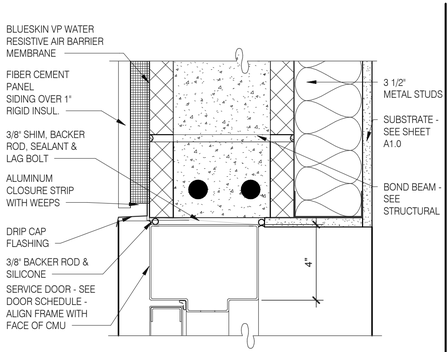
DOOR JAMB 3" = 1'-0" | 16



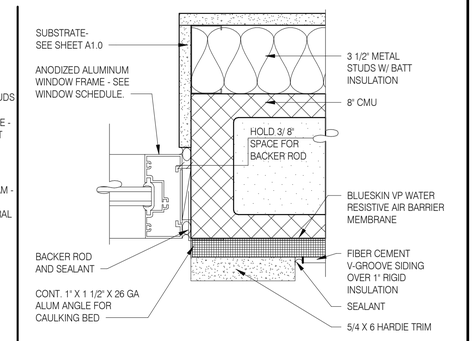
WINDOW HEAD @ ENTRANCE 3" = 1'-0" | 14



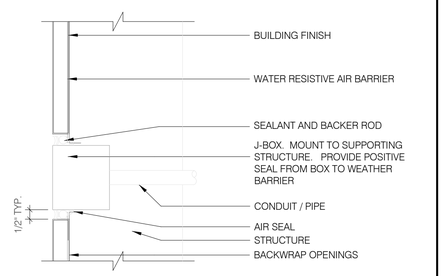
CONNECTION THRU EXT. FINISH 1" = 1'-0" | 11



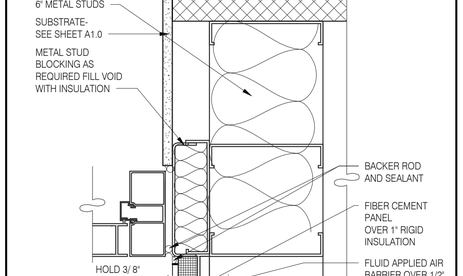
HEAD/ JAMB @ SERVICE DOOR 3" = 1'-0" | 7



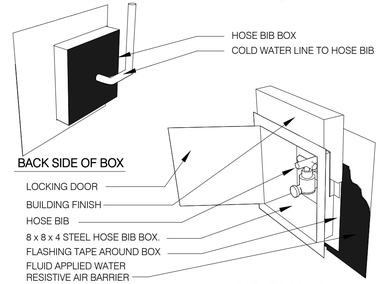
TYPICAL WINDOW JAMB 3" = 1'-0" | 3



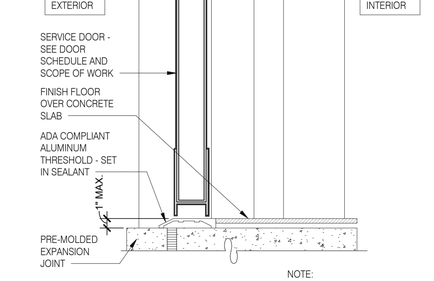
CO2 FILL / J-BOX 3" = 1'-0" | 17



DOOR JAMB 3" = 1'-0" | 15



HOSE BIBB BOX 3" = 1'-0" | 12



THRESHOLD @ SERVICE DOOR 3" = 1'-0" | 8

GENERAL NOTES:

HARDIE BOARD TO BE ATTACHED WITH CONCEALED FASTENERS PER MANUFACTURERS SPECIFICATIONS

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

DATE	REMARKS
03.02.22	Issued for Permit
05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
CONSTRUCTION DETAILS DOOR/WINDOW

A6.1

PLOT DATE: 5/3/2022 8:08:06 AM

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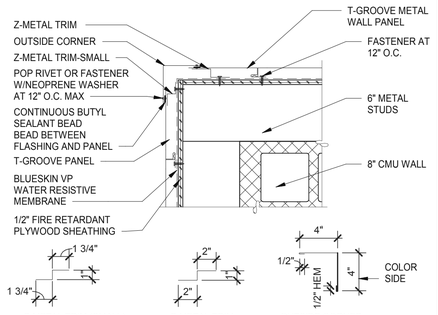
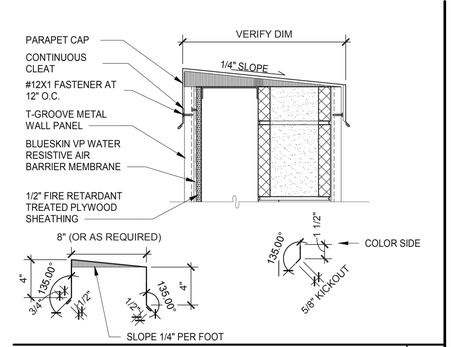
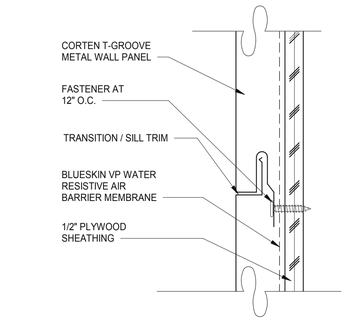
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



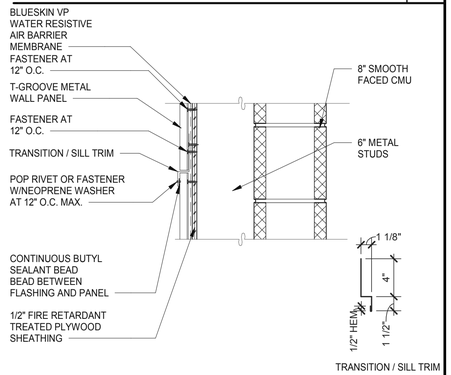
OUTSIDE CORNER 1 1/2" = 1'-0" **5**



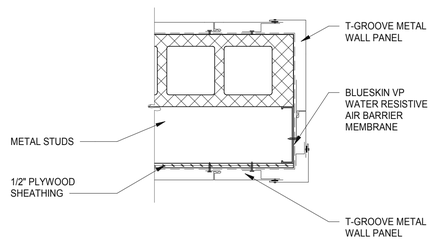
PARAPET 1 1/2" = 1'-0" **1**



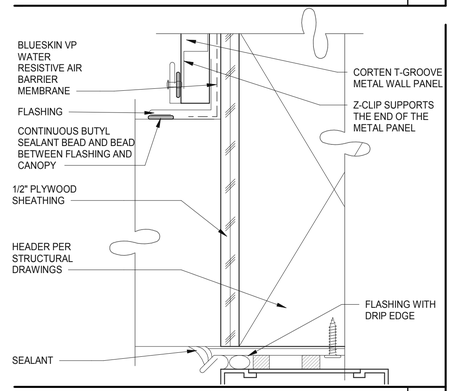
PANEL JOINT 6" = 1'-0" **6**



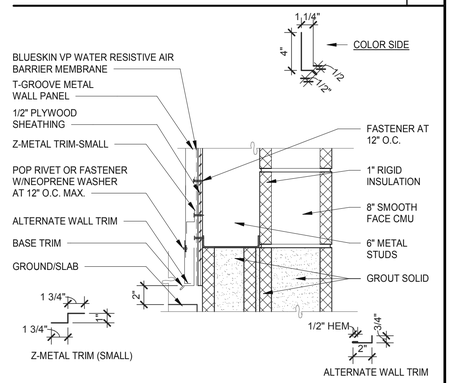
VERTICAL PANEL JOINT 1 1/2" = 1'-0" **2**



CORTEN T-GROOVE METAL PANEL 1 1/2" = 1'-0" **11**

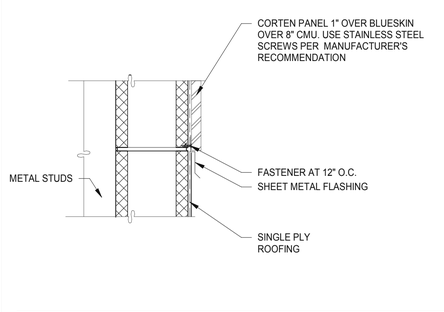


ENLARGED CANOPY DETAIL 6" = 1'-0" **7**

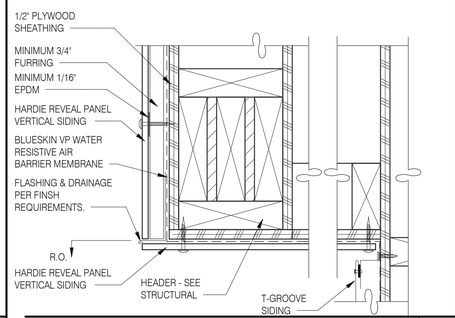


BASE TRIM HORIZONTAL 1 1/2" = 1'-0" **3**

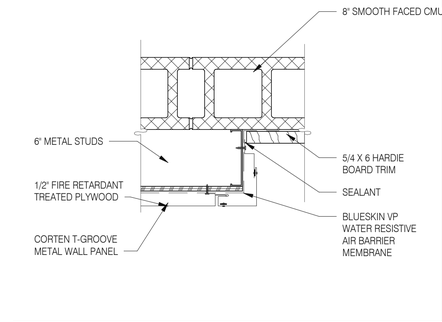
EXTERIOR



METAL PANEL @ ROOFING 1 1/2" = 1'-0" **12**



PARAPET CORNER 3" = 1'-0" **8**



VERTICAL OUTSIDE CORNER 1 1/2" = 1'-0" **4**

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

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CONTRACT DATE:	01.25.22
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SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
CONSTRUCTION DETAILS WALL

A6.2

PLOT DATE: 5/3/2022 8:08:10 AM

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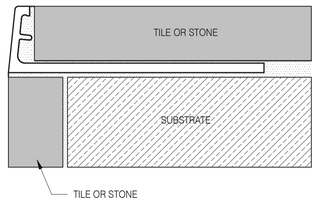
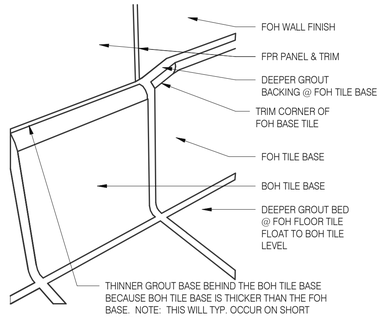
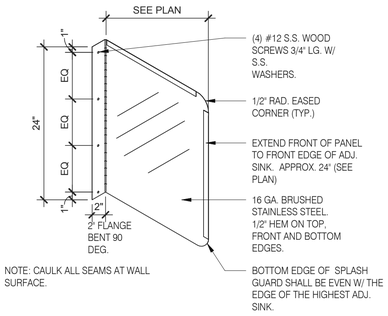


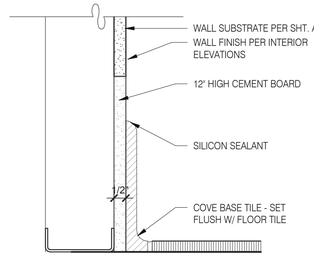
SCHLUTER JOLLY CORNER GUARD 1 1/2" = 1'-0" | 17



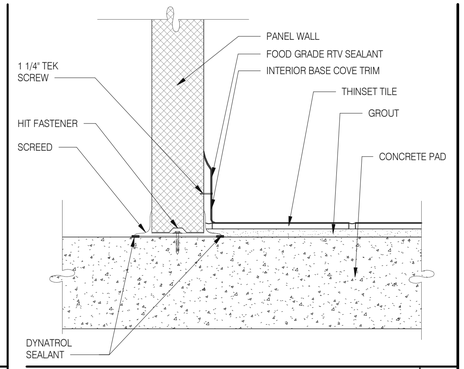
TILE BASE TRANSITION 12" = 1'-0" | 13



SPLASH GUARD 1" = 1'-0" | 9

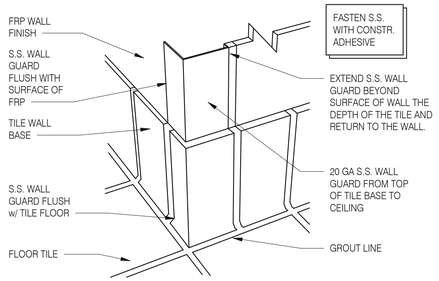


BASE @ DINING EXT. SIDE WALLS 3" = 1'-0" | 5

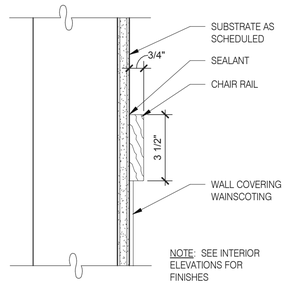


WALK-IN TILE/BASE 1 1/2" = 1'-0" | 1

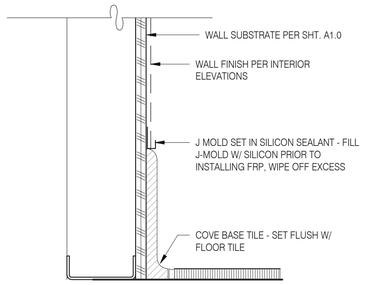
NOT USED | 18



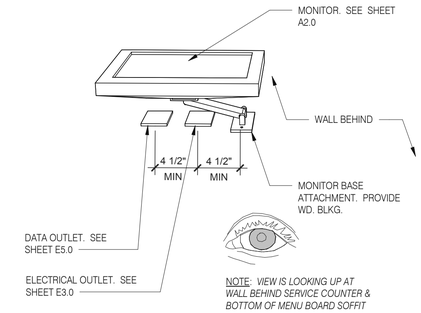
S.S. CORNER & END WALL GUARD 12" = 1'-0" | 14



CHAIR RAIL DETAIL 3" = 1'-0" | 10

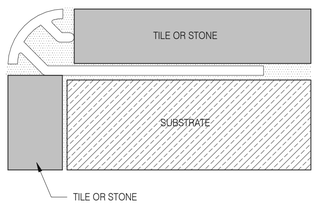


BASE @ EXT. WALL 3" = 1'-0" | 6

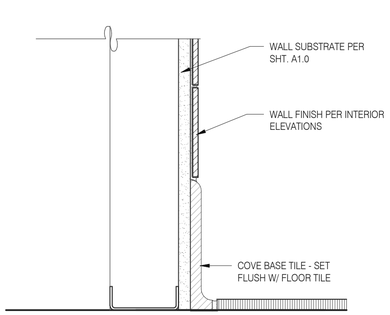


WALL MOUNT MONITOR 1 1/2" = 1'-0" | 2

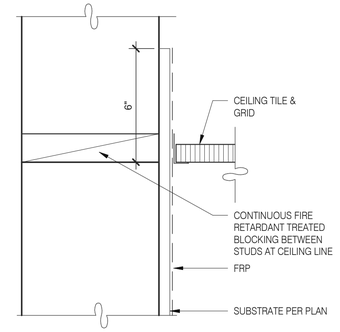
NOT USED | 19



SCHLUTER CORNER GUARD 1 1/2" = 1'-0" | 15

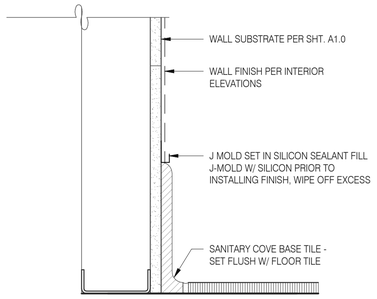


BASE IN RESTROOM 3" = 1'-0" | 7

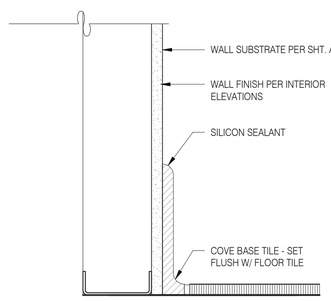


KITCHEN FINISH @ CEILING 3" = 1'-0" | 3

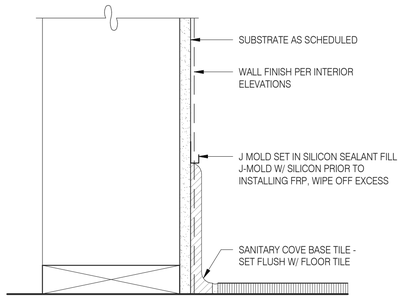
NOT USED | 20



BASE @ KITCHEN WALL 3" = 1'-0" | 16



BASE @ DINING ROOM INT. WALL 3" = 1'-0" | 8



BASE @ DINING ROOM INT. WALL 3" = 1'-0" | 4

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
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	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
FINISH DETAILS

A6.3

PLOT DATE: 5/3/2022 8:08:14 AM

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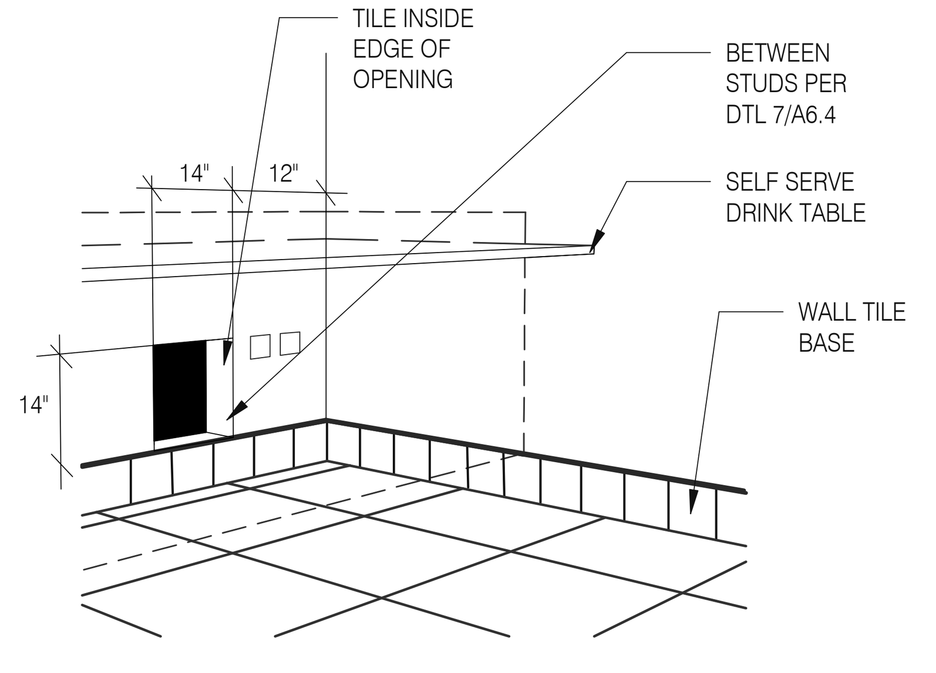
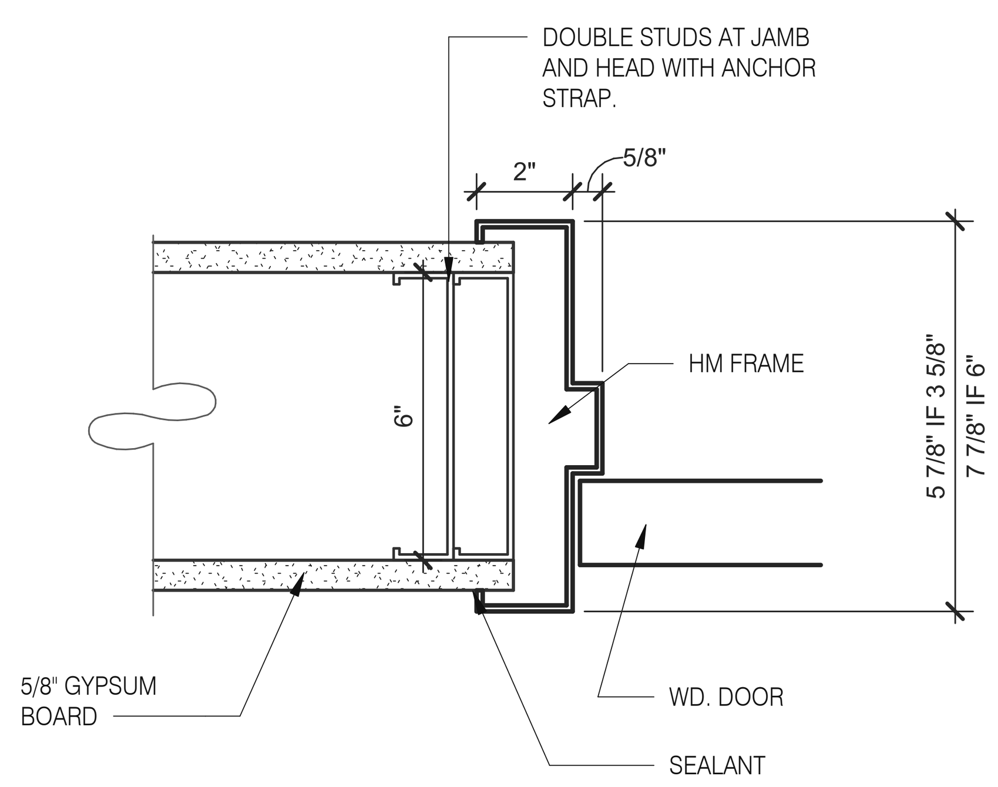
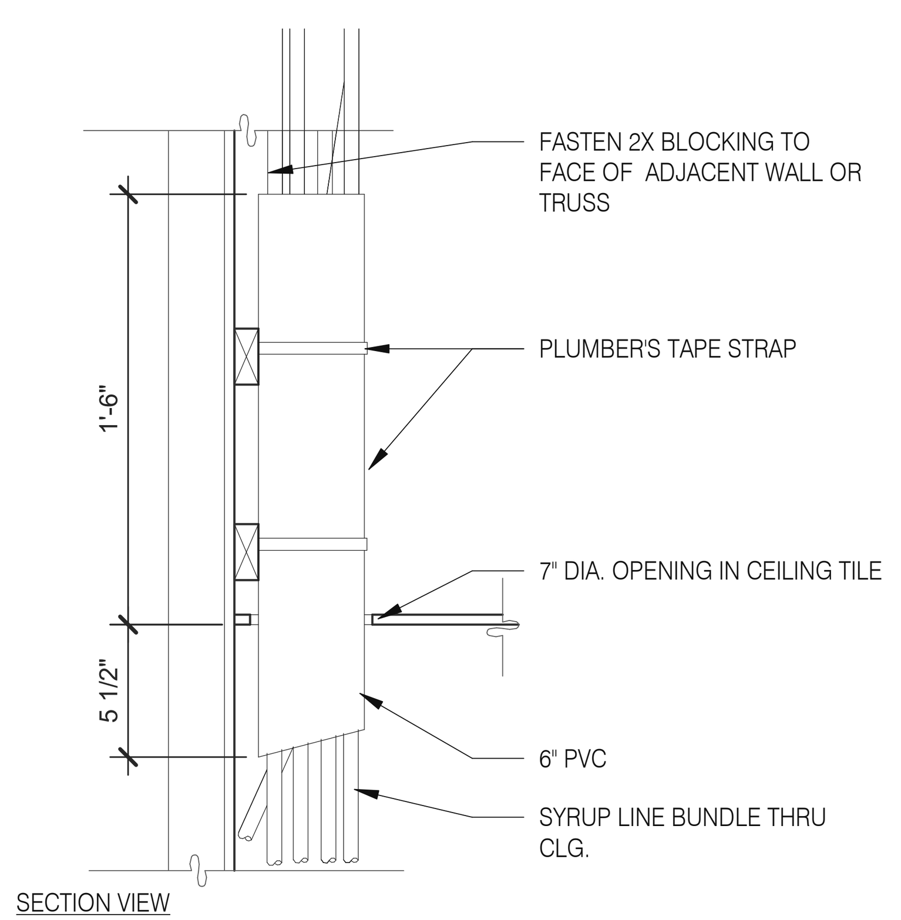


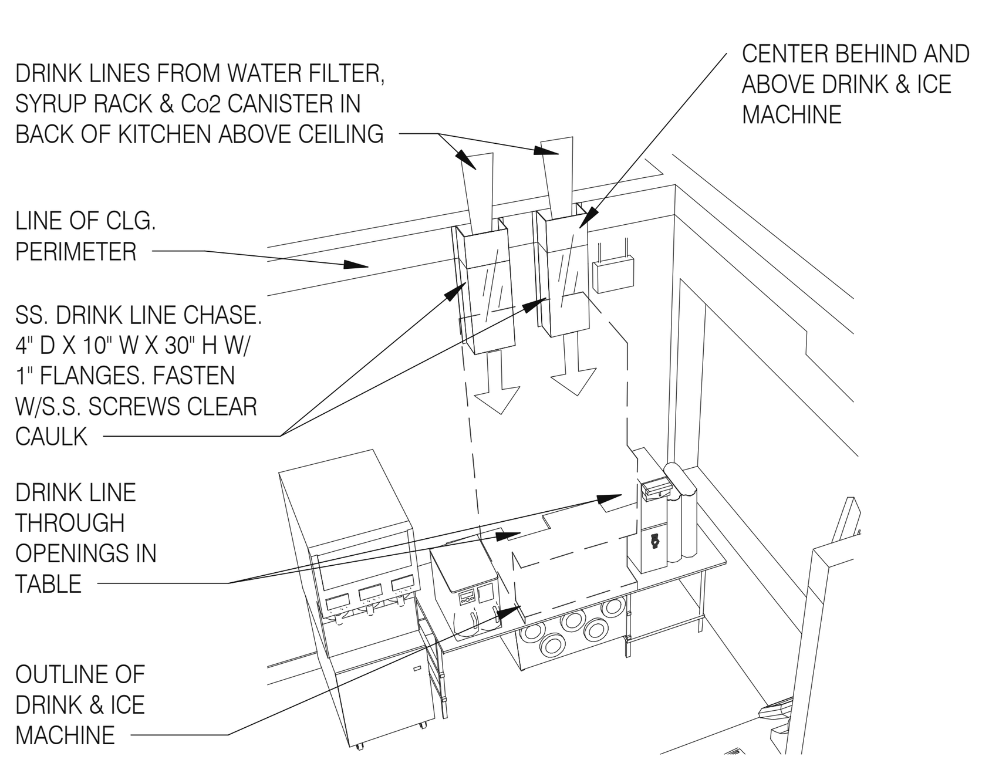
WALL PASS THRU N.T.S. **8**



HEAD/JAMB @ H.M. DOOR N.T.S. **6**

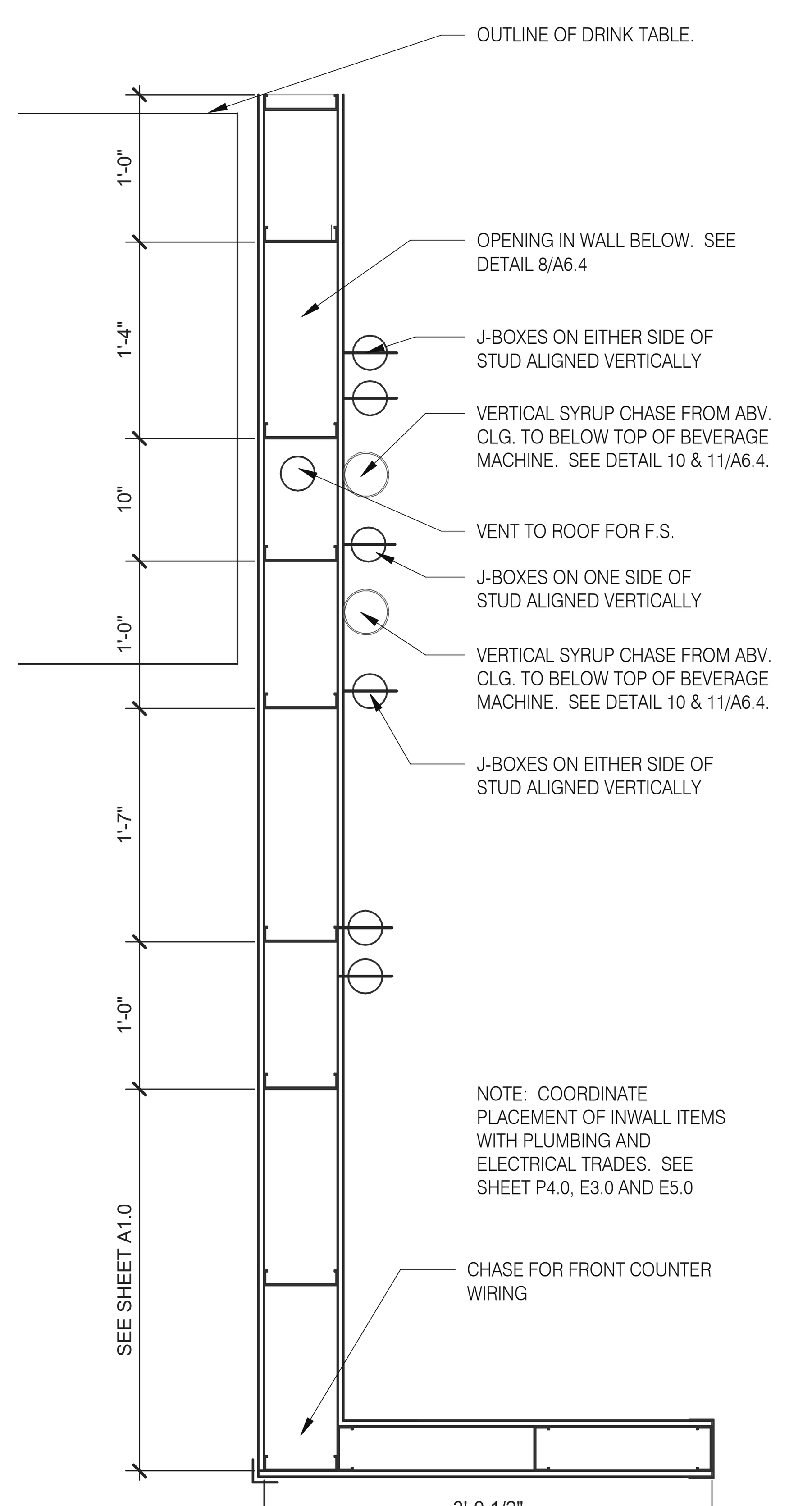


SYRUP BUNDLE CLG. 1 1/2" = 1'-0" **10**



NOTE: SEE DETAIL 8/P6.0 DRINK SYSTEM SCHEMATIC & DETAIL 6/P6.0 AND 7/P6.0 FOR DRINK LINES

SYRUP CHASE ON WALL 1 1/2" = 1'-0" **11**



INTERIOR CHASE WALL N.T.S. **7**

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Mark S. Salopek, LLC

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PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

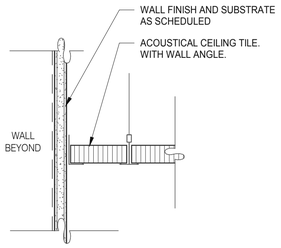
5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
CONSTRUCTION DETAILS INTERIOR

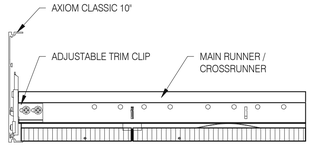
A6.4

PLOT DATE: 5/3/2022 8:08:17 AM

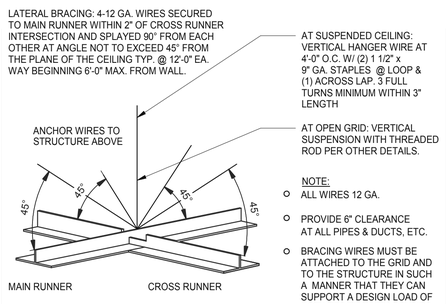
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



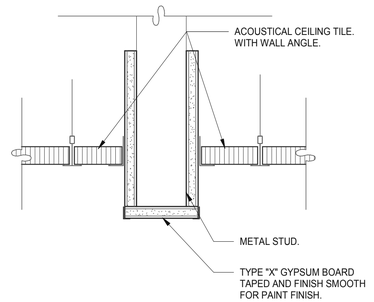
GYPSUM BOARD TRANSITION 3" = 1'-0" **17**



ASSEMBLY CLIP-ON 3" = 1'-0" **13**



SUSPENDED ACOUSTICAL CEILING 3" = 1'-0" **9**



CEILING HEADER TRANSITION 3" = 1'-0" **5**

MEMBER DEPTH:

(EXAMPLE: 6" = 600 X 1/100 INCHES) ALL MEMEBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE DIMENSION.

STYLE:

(EXAMPLE: STUD OR JOIST SECTION = S) THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:

S = STUD OR JOIST, T = TRACK, U = CHANNEL, F = FURRING

600 S 162 - 54

FLANGE WIDTH:

(EXAMPLE: 1 5/8" = 1.625" ~ 162 X 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

MATERIAL THICKNESS:

(EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL =1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

CEILING SPAN TABLE NOTES:

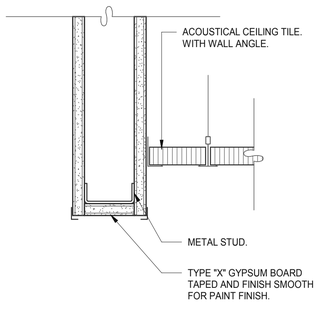
1. VALUES ARE FOR SINGLE SPANS.
2. ALLOWABLE CEILING SPAN CALCULATIONS BASED ON 33KSI YIELD STRENGTH STEEL.
3. FOR FULLY BRACED CEILINGS, USE MID-SPAN BRACED VALUES.
4. END BEARING LENGTH = 1" MINIMUM.

SECTION:	(MIL)	4 PSF LATERAL SUPPORT OF COMPRESSION FLANGE UNSUPPORTED JOIST SPACING (IN.) O.C. 12"	16"	24"	MID-SPAN JOIST SPACING (IN.) O.C. 12"	16"	24"
362S125	18	9'-3"	8'-7"	7'-7"	12'-8"	11'-7"	10'-0"
362S125	27	10'-8"	9'-10"	8'-10"	15'-0"	13'-11"	12'-4"
362S125	30	11'-0"	10'-2"	9'-1"	15'-6"	14'-4"	12'-10"
362S125	33	11'-5"	10'-7"	9'-5"	16'-2"	14'-10"	13'-3"
362S125	43	12'-8"	11'-8"	10'-5"	17'-9"	16'-5"	14'-8"
362S137	27	12'-0"	11'-2"	10'-0"	17'-2"	15'-11"	14'-3"
362S137	33	12'-11"	11'-11"	10'-8"	18'-4"	16'-11"	15'-2"
362S137	43	14'-3"	13'-2"	11'-8"	20'-0"	18'-6"	16'-7"
362S162	33	14'-8"	13'-7"	12'-2"	20'-10"	18'-11"	16'-6"
362S162	43	16'-2"	14'-11"	13'-4"	22'-8"	20'-7"	18'-0"
400S125	27	10'-11"	10'-1"	9'-1"	15'-5"	14'-3"	12'-9"
400S125	30	11'-4"	10'-5"	9'-4"	16'-0"	14'-9"	13'-2"
400S125	33	11'-9"	10'-10"	9'-8"	16'-7"	15'-3"	13'-8"
400S125	43	13'-0"	12'-0"	10'-8"	18'-3"	16'-10"	15'-0"
400S137	27	12'-4"	11'-5"	10'-3"	17'-7"	16'-4"	14'-8"
400S137	33	13'-3"	12'-3"	10'-11"	18'-9"	17'-4"	15'-7"
400S137	43	14'-7"	13'-6"	12'-0"	20'-7"	19'-0"	17'-0"
400S162	33	15'-0"	13'-11"	12'-6"	21'-5"	19'-10"	17'-9"
400S162	43	16'-7"	15'-3"	13'-8"	23'-4"	21'-7"	19'-4"
600S125	27	12'-5" ●	11'-6" ●	10'-4" ●	17'-11" ●	16'-6" ●	14'-9" ●
600S125	30	12'-9"	11'-10"	10'-8"	18'-5"	17'-1"	15'-3"
600S125	33	13'-2"	12'-3"	11'-0"	18'-11"	17'-7"	15'-10"
600S125	43	14'-6"	13'-4"	11'-11"	20'-6"	19'-0"	17'-0"
600S137	33	14'-11"	13'-9"	12'-5"	21'-5"	19'-10"	17'-10"
600S137	43	16'-3"	15'-0"	13'-5"	23'-1"	21'-5"	19'-3"
600S162	33	16'-11"	15'-8"	14'-1"	24'-5"	22'-8"	20'-5"
600S162	43	18'-5"	17'-0"	15'-3"	26'-4"	24'-4"	21'-11"

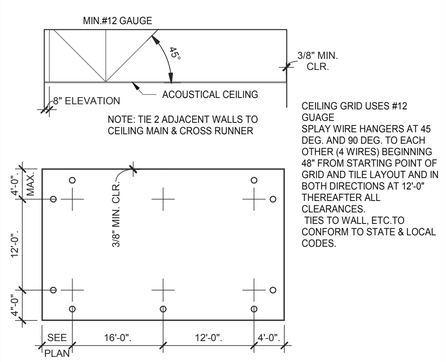
● INDICATES THAT WEB STIFFENERS ARE REQUIRED AT ENDS

NOTE: ALL JOIST INFORMATION IS BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) **ICC ESR-3064P**

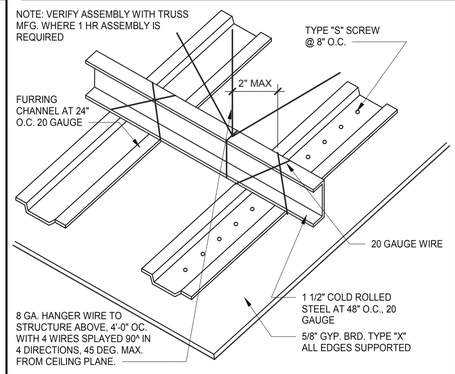
ALLOWABLE CEILING SPANS-L/240 12" = 1'-0" **3**



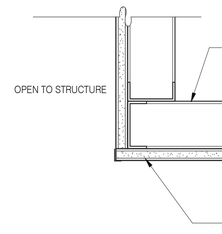
CEILING HEADER TRANSITION 3" = 1'-0" **14**



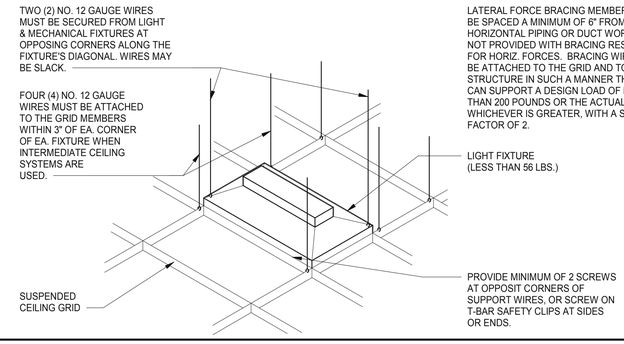
SUSPENDED CEILING GRID 12" = 1'-0" **10**



GYPSUM BOARD CEILING 3" = 1'-0" **6**



CEILING TRANSITION 3" = 1'-0" **11**



LIGHT FIXTURE @ SUSP. CLNG. 12" = 1'-0" **8**

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
	05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
CEILING DETAILS

A6.5

PLOT DATE: 5/3/2022 8:08:22 AM

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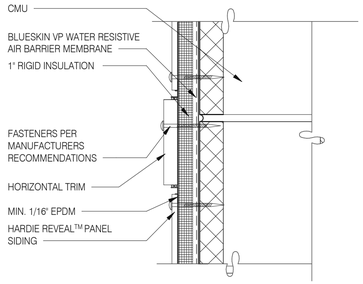
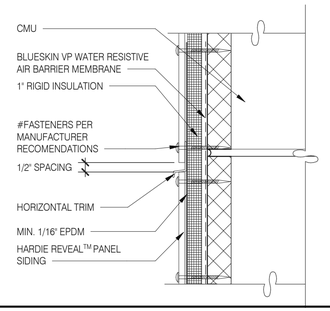
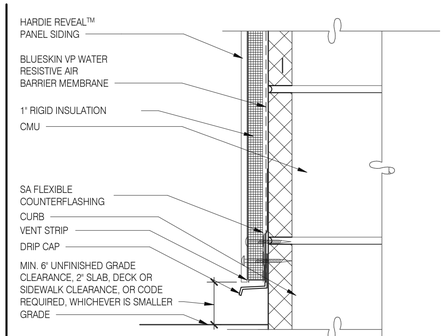


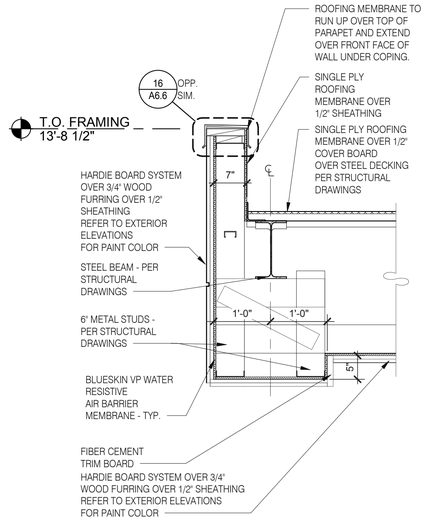
PANEL WITH HORIZONTAL TRIM 3" = 1'-0" **13**



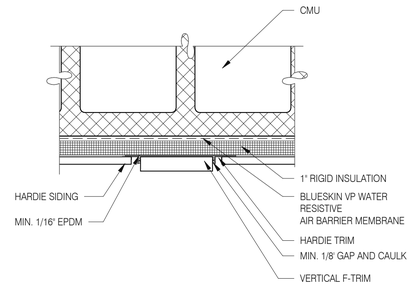
PANEL WITH HORIZONTAL TRIM 3" = 1'-0" **9**



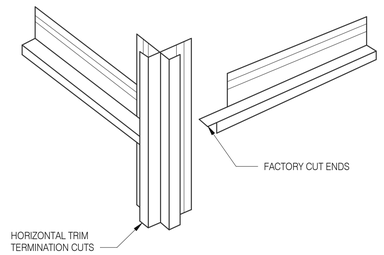
FOUNDATION @ GRADE 3" = 1'-0" **5**



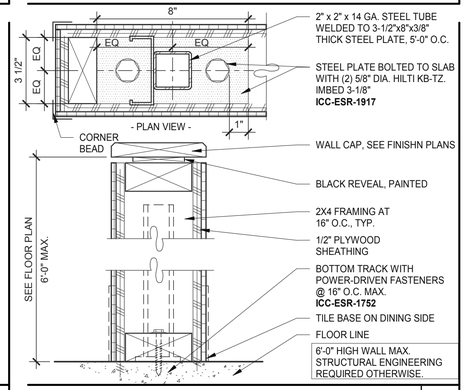
PORTE COCHERE BULKHEAD 3/4" = 1'-0" **1**



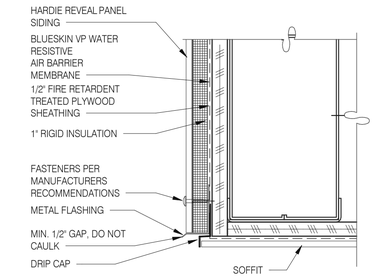
PANEL WITH VERTICAL TRIM 3" = 1'-0" **10**



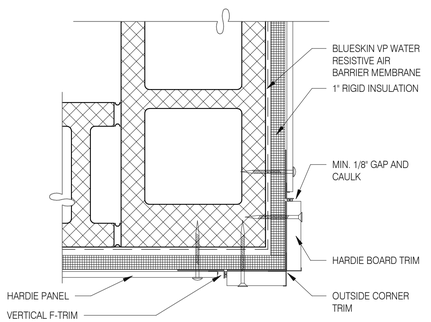
HOR. TRIM - TERMINATION N.T.S. **6**



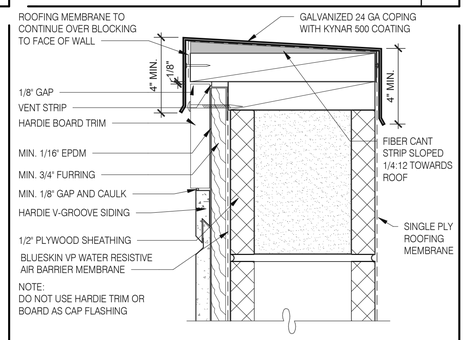
LOW WALL 3" = 1'-0" **15**



SOFFIT FLASHING INTERSECTION 3" = 1'-0" **11**



OUTSIDE CORNER TRIM 3" = 1'-0" **8**



VENTED PARAPET WALL 3" = 1'-0" **16**

Mark S. Salopek, LLC

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RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

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	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0

HARDIE BOARD DETAILS

A6.6

PLOT DATE: 5/3/2022 8:08:26 AM

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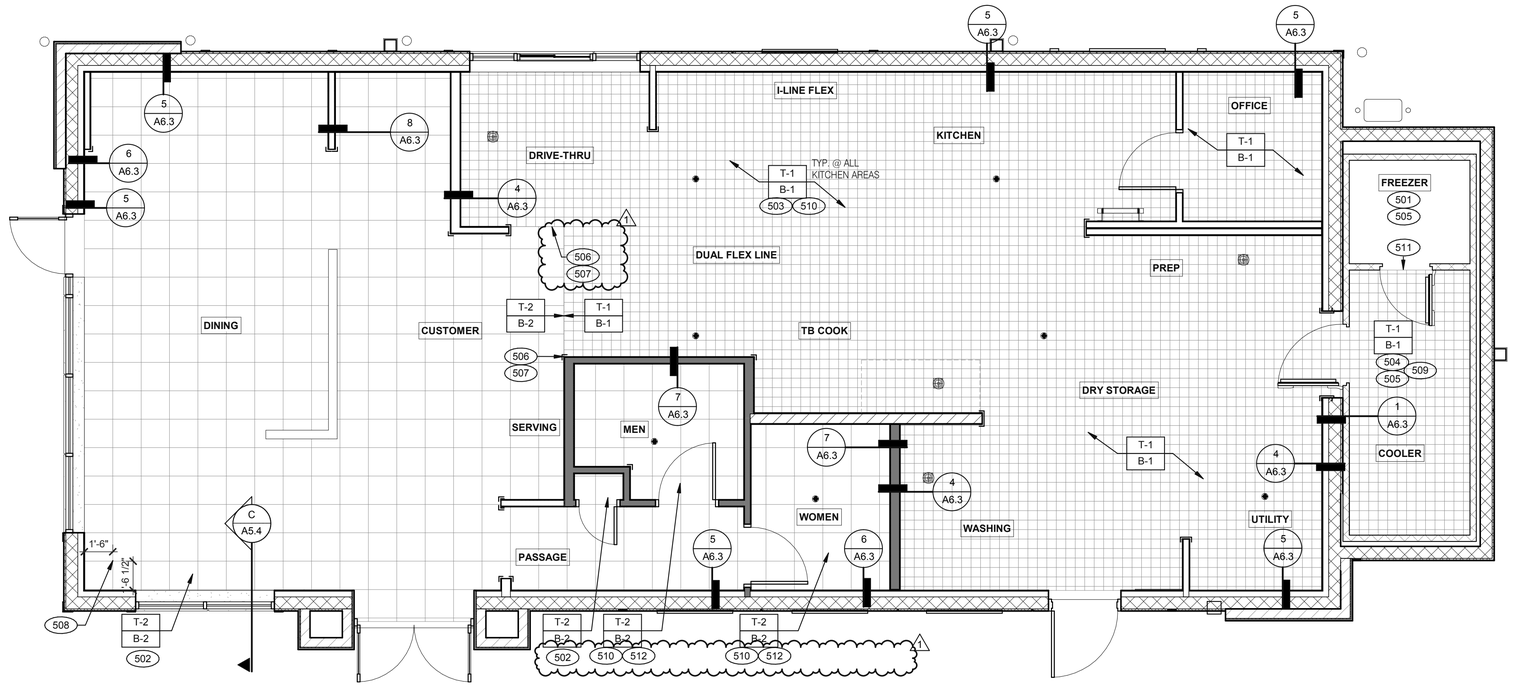

N

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

NOT USED **D**

FLOOR FINISH NOTES **C**

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

B. TILE JOINT (U.O.N.):
1.QUARRY FLOOR TILE: 1/4"
2.PORCELAIN FLOOR TILE: 3/16"
3.GLAZED WALL TILE: 1/8"
4.BASE, TRIM AND ACCESSORIES: MATCH ADJOINING TILE UNITS

C. TILE INSTALLATIONS REQUIRE MANUFACTURERS STANDARD MOLDED CORNERS AT BOTH INSIDE AND OUTSIDE CORNERS.

D. ALL BASE TILE SHALL BE SANITARY COVE STYLE WITH 3/8" MIN RADIUS UNLESS NOTED OTHERWISE.

E. SEE SCOPE OF WORK SHEETS FOR RESPONSIBILITIES.

F. PROVIDE CLEAR SILICONE CAULK WHERE FRP STOPS AT TOP OF COVE BASE.

G. TILE CHIPPING AROUND CORE DRILL HOLES FOR SEATING FIXTURE WILL NOT BE ACCEPTED.

KEY NOTES **B**

501 FACTORY FLOOR FINISH (GALV STL) W/INTEGRAL COVE BASE.
502 6" COVE TILE BASE. SEE DETAILS 5 & 8/A6.3.
503 6" SANITARY COVE TILE BASE. SEE DETAILS 4, 6/A6.3.
504 PROVIDE FLOOR TILE INSIDE WALK-IN COOLER (NO TILE OR BASE IN FREEZER). FLOAT FLOOR TILE IN COOLERS TO DRAIN TO KITCHEN. COORDINATE WITH COOLER WALL CONFIGURATION.
505 NO BASE TILE BEHIND W-059 FOR WALK-IN COOLER/FREEZER.
506 ALIGN FLOOR TILE TRANSITION WITH FACE OF WALL.
507 FLOAT FLOOR TILE FOR FLUSH TRANSITION.
508 START POINT FOR FLOOR TILE.
509 METAL BASE IN COOLER; SEE SCOPE OF WORK. SEE DETAIL 1/A6.3.
510 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE FLOOR SLOPES AROUND FLOOR DRAINS.
511 STEP-UP AT FREEZER THRESHOLD.
512 SANITARY TILE BASE IN RESTROOM.

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
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1	04.28.22	NTP/ Plan Review Comments
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CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
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5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
FLOOR FINISH PLAN

A7.0

PLOT DATE: 5/3/2022 8:08:31 AM

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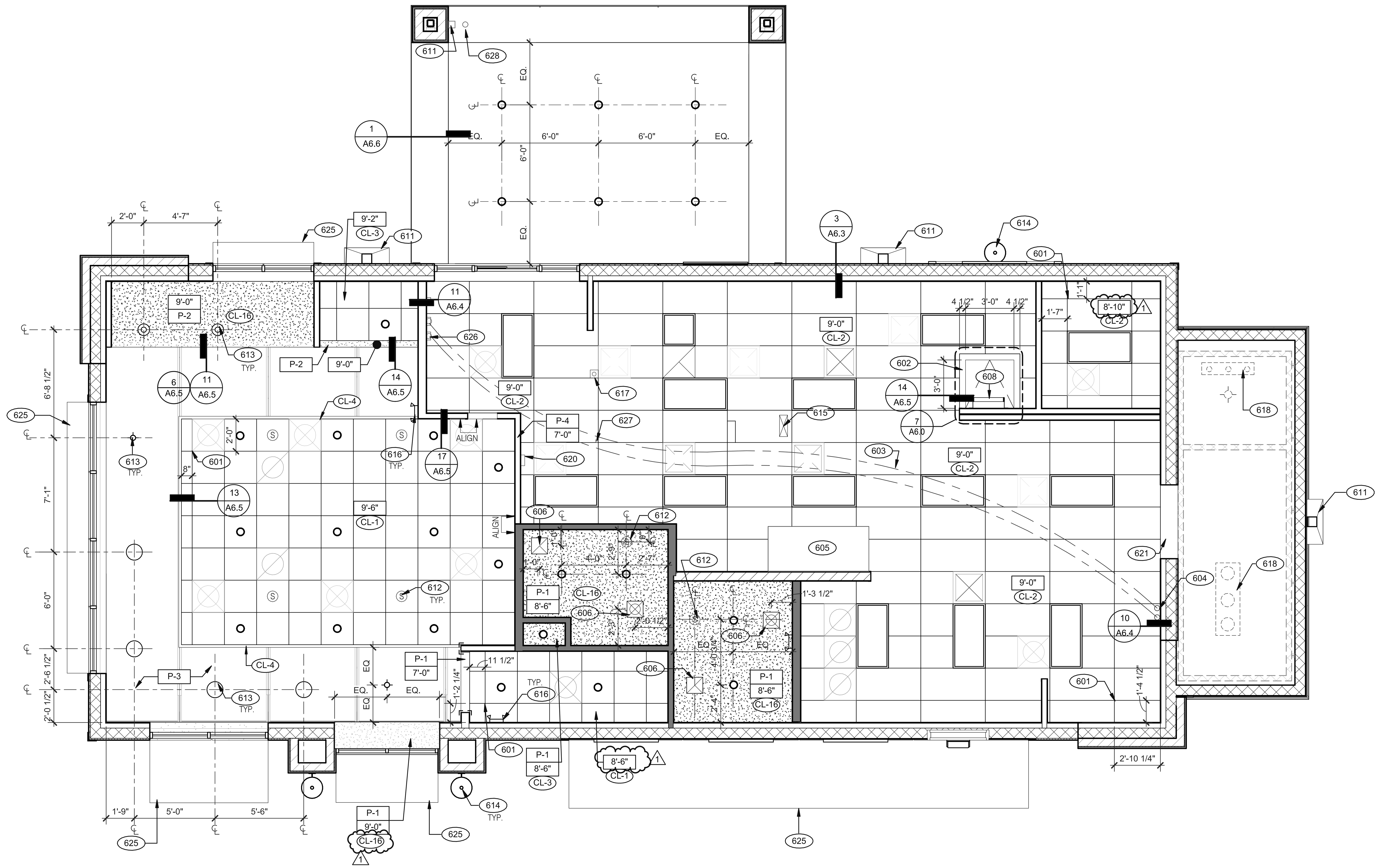

N

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

Symbol	Description	Symbol	Description
	1'-0" x 4'-0" LED TROFFER		EXIT LIGHT (WALL MOUNTED)
	2'-0" x 4'-0" LED TROFFER		EXIT LIGHT (CEILING MOUNTED)
	2'-0" x 4'-0" LED LIGHT FIXTURE		EXTERIOR WALL FIXTURE
	DOWNLIGHT @ WALK-IN (BY WALK-IN MFR.)		SPEAKER - CENTER ON CEILING TILE
	PENDANT FIXTURE.		12" EXHAUST FAN
	DOWNLIGHT - CENTER ON CEILING TILE		HVAC RETURN GRILLE
	EMERGENCY LIGHT		HVAC SUPPLY DIFFUSER
			BACK DOOR SECURITY STROBE LIGHT
			OCCUPANCY SENSOR. CEILING MOUNTED

CEILING SYMBOL LEGEND D

DIMENSIONS:
A. ALL DIMENSIONS ARE TO FACE OF FINISH U.O.N.

CEILING FINISHES:
A. REFER TO ROOM FINISH SCHEDULE (SHT A7.2) FOR CLG. FINISHES.

SUSPENDED CEILING:
A. ACOUSTICAL PANEL INSTALLATION: INSTALL ACOUSTICAL PANELS WITH EDGES IN CLOSE CONTACT WITH METAL SUPPORTS AND IN TRUE ALIGNMENT.
B. ALLOWABLE VARIATIONS FROM FLAT AND LEVEL SURFACE: 1/8" IN 10'-0" MAX.
C. ALLOWABLE VARIATIONS FROM PLUMB OF GRID MEMBERS: AS CAUSED BY ECCENTRIC LOADS, 2° MAX.
D. INSTALL SYSTEM AFTER MAJOR ABOVE CLG. WORK IS COMPLETE. COORD LOCATIONS OF HANGERS WITH RELATED WORK.
E. SEE SPECS FOR ADDITIONAL INFORMATION.

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

ELECTRICAL:
A. SEE ELECT. DWGS. FOR FIXTURE SCHED.

REFLECTED CEILING PLAN NOTES C

601 CEILING GRID AT STARTING POINT.
602 BULKHEAD @ 8'-0" A.F.F.
603 NON-INSULATED BUNDLED SYRUP LINES FOR DRINK SYSTEM. SEE SCOPE OF WORK.
604 6" DIAMETER PVC STUB THROUGH CEILING, SEE DETAIL 10/A6.4.
605 HOOD, SEE MECHANICAL DRAWINGS.
606 FOR ROUGH FRAMING OPENINGS SEE AIR DEVICE SCHEDULE (TYP. ALL RESTROOMS).
608 ROOF HATCH.
611 VERTICAL DOWNSPOUT.
612 SPEAKER. CENTER ON CEILING TILE, UON.
613 PENDANT LIGHTING.
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.
628 DAYLIGHT ROOF OVERFLOW DRAIN THRU SOFFIT. INSTALL BRONZE CAP ON EXPOSED END.

KEY NOTES B

Mark S. Salopek, LLC

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TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
REFLECTED CEILING PLAN

A7.1

PLOT DATE: 5/3/2022 8:08:39 AM

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

FINISH LEGEND						
SYMBOL	MANUFACTURER	STYLE	COLOR	SIZE	GROUT	COMMENTS
CEILING						
CL-1	USG	ACT SYSTEM, USG RADAR, CLIMAPLUS PERFORMANCE, SQ EDGE	#107 TAUPE	2X2	N/A	USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #107 TAUPE
CL-2	USG	ACT SYSTEM, USG CLEAN ROOM ACOUSTICAL PANELS, CLIMAPLUS PERFORMANCE, SQ EDGE	#050 WHITE	2x4	N/A	CLASS 100 (ISO 5) PANELS, USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #050 WHITE
CL-3	USG	ACT SYSTEM, USG CLEAN ROOM ACOUSTICAL PANELS, CLIMAPLUS PERFORMANCE, SQ EDGE	#050 WHITE	2X2	N/A	CLASS 100 (ISO 5) PANELS, USG DONN BRAND DX/DXL 15/16 TEE SYSTEM, INTERMEDIATE DUTY #050 WHITE
CL-4	USG	USG COMPASSO STANDARD	#002 SILVER SATIN	10"H PROFILE		SEE PLANS AND DETAILS FOR MORE INFO
CL-16	N/A	GYPSUM BOARD	PAINTED PER RCP			
CHAIR RAIL						
CR-1	SW	SW7043	WORLDLY GRAY	3 1/2" X 3/4"		SEMI-GLOSS
FLOOR BASE						
B-1	CMC	QUARRY	PURITAN GREY #507	6X6	MAPEI #9 GRAY, 1/8" JOINT WIDTH	KERAPOXY GROUT IEG CQ
B-2	CMC	MOTIF GREY	GREY	6X12	MAPEI, #2 PEWTER, 1/8" JOINT WIDTH	
FLOORING						
T-1	CMC	QUARRY	PURITAN GREY #507	6X6	MAPEI #9 GRAY, 1/8" JOINT WIDTH	KERAPOXY GROUT IEG CQ
T-2	CMC	MOTIF GREY	GREY	18X18	MAPEI, #2 PEWTER, 1/8" JOINT WIDTH	
FRP/LAMINATE						
FRP-1	MARLITE	SMOOTH SURFACE	S100 S/2/S WHITE	4' X 9' X .90		COORDINATE ALL TRIM PIECES WITH FRP MFG
L-1	WILSONART	4783K FINISH 7	WHITE TIGRIS			OFFICE SHELVING LAMINATE
L-2	WILSONART	Y0664K-12	MOCHA ASH			SOFTGRAIN FINISH, RR/UTILITY DOORS VERTICAL GRADE PRODUCT CODE #362 IS .028" AND HORIZONTAL GRADE PRODUCT CODE #372 IS .039"
CORNER GUARDS						
CG-1	C.S GROUP	ACROVYN VA SERIES	VA-034N #934 PEARL	3/4" X 3/4"		FOR PAINT MATCH P-1
CG-2	C.S GROUP	ACROVYN VA SERIES	VA-034N #262 DRIFTWOOD	3/4" X 3/4"		FOR PAINT MATCH CR-1 & WC-1
METAL TRANSITION						
MT-1	SCHLUTER	JOLLY	A 100 AT - SATIN NICKEL ANODIZED ALUMINUM	3/8"	N/A	TILE EDGE TRIM DETAIL 17/A6.3
MT-3	SCHLUTER	RONDEC - ALUMINUM		3/8"	N/A	TILE EDGE TRIM DETAIL 17/A6.3
SOLID SURFACE						
SS-1	CORIAN	LAVA ROCK	LAVA ROCK			COUNTERTOPS/24" DIAMETER TABLE TOP
WALL COVERING						
WC-1	WOLF GORDON	'RAMPART' HIGH IMPACT WALL COVERING	FOUNDATION/ PIGMENT (GOH 12172606)		RAILROAD INSTALLATION: THERE SHOULD BE NO SEAMS ALONG WALLS	1 ROLL: 80 L.F.
WALL PAINT						
P-1	SHERWIN WILLIAMS	SW7021	SIMPLE WHITE	N/A	N/A	PAINT FINISH: WALLS: EGGSHELL TRIM/BOH: SEMI-GLOSS (CHAIR RAIL) CEILING: FLAT
P-2	SHERWIN WILLIAMS	TB2603C	PURPLE	N/A	N/A	
P-3	SHERWIN WILLIAMS	SW7076	CYBER SPACE	N/A	N/A	
P-4	SHERWIN WILLIAMS	SW7005	PURE WHITE	N/A	N/A	
WALL TILE						
W-1	CMC	FORM	ICE DECO MIX	8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM ACCENT WALL TILE
W-2	CMC	FORM	ICE	8X8	MAPEI #47 CHARCOAL, 1/8" JOINT WIDTH	RESTROOM WALL TILE
W-3	CMC	SALVAGEWOOD	WHITEWASH	3X36	MAPEI #01 ALABASTER, 1/8" JOINT WIDTH	RUNNING BOND INSTALLATION OFFSET 25%

FINISH LEGEND D

WESTERN STATES METAL ROOFING
JESSICA TRIER
INSIDE SALES REPRESENTATIVE
P: (602) 495-0048
D: (602) 422-2696
W: www.metalroofing.com
JESSICA@METALDECK.COM

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CORIAN DESIGN
(614) 975-6700
DAVID.P.GREENING@DUPONT.COM

JAMES HARDIE
MATT PETERSEN
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ALLISON PICHE
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ONE WASHINGTON SQUARE, ALBANY, NY 12205
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D: (518) 713-5395
APICHE@CREATIVEMATERIALSCORP.COM

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NATIONAL ACCOUNT EXECUTIVE
2100 W. ORANGEWOOD AVE. SUITE 100
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SUNDEEPKUMAR.PATEL@SHERWIN.COM

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MARLITE
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REGION SALES MANAGER - SPECIFICATIONS MARLITE, INC.
P: (800) 377-1221
M: (330) 260-7633
1 MARLITE DRIVE, DOVER, OH 44622
www.marlite.com
degbers@marlite.com

MAPEI
LISA FYKE
ARCHITECTURAL REPRESENTATIVE
MAPEI CORP.
(909) 247-5324
LFYKE@MAPEI.COM

A72_FINISH CONTACTS N.T.S. C

NOT USED A

NOT USED B

Mark S. Salopek, LLC
3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
FINISH SCHEDULE

A7.2

PLOT DATE: 5/3/2022 8:08:42 AM

C:\Users\mshaffer\Documents\19 3 314877 Winter Garden FL_Arch_MShaffer5FDGroup.rvt

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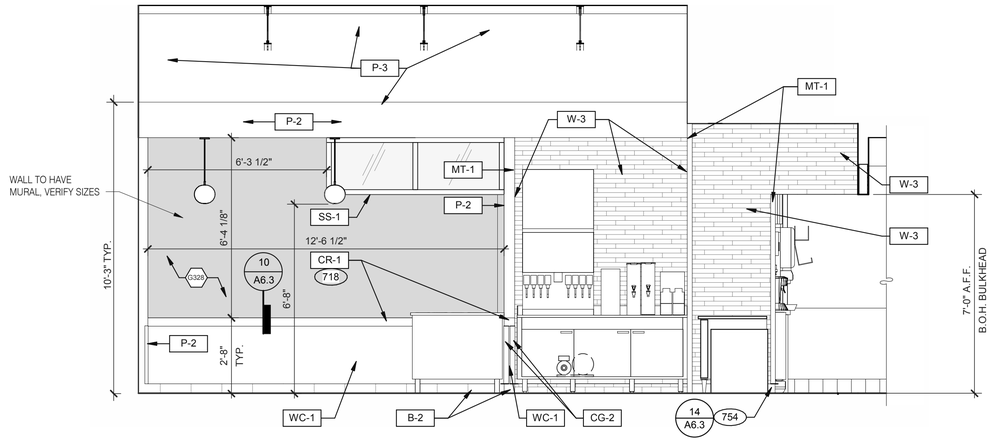

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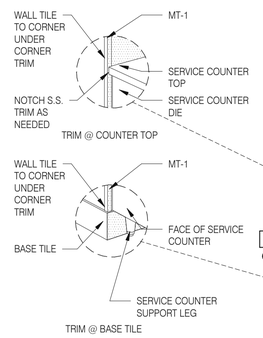

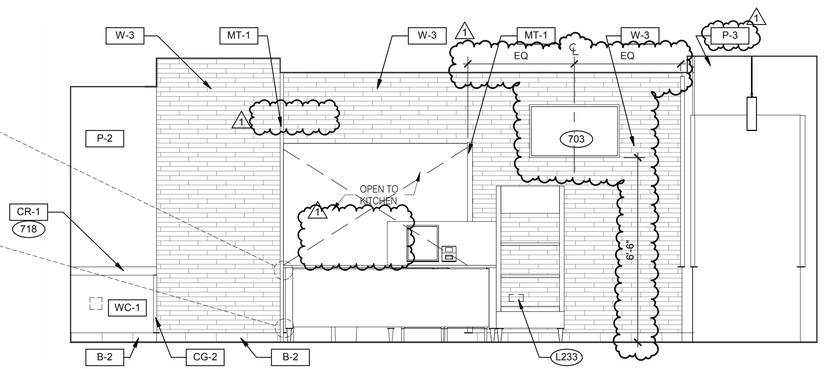

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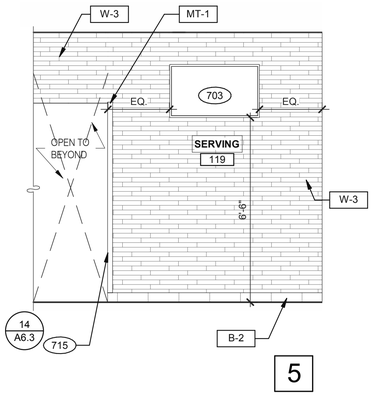
DINING 3/8" = 1'-0"



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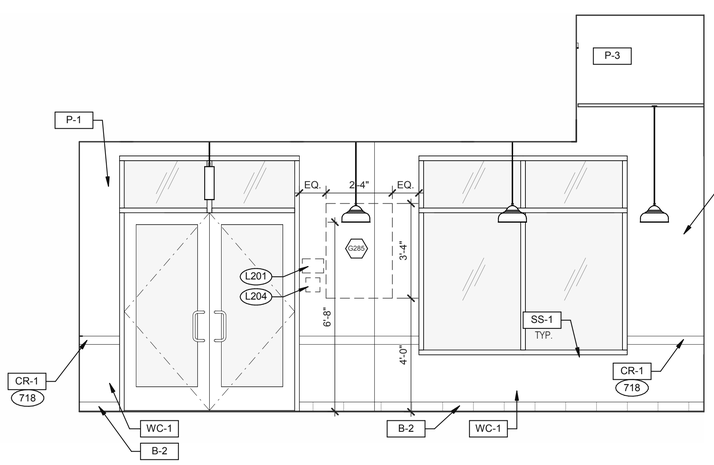

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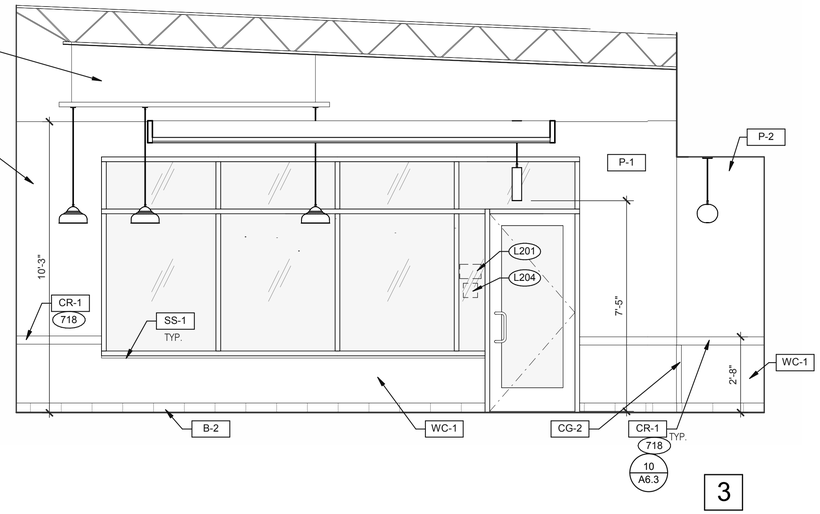

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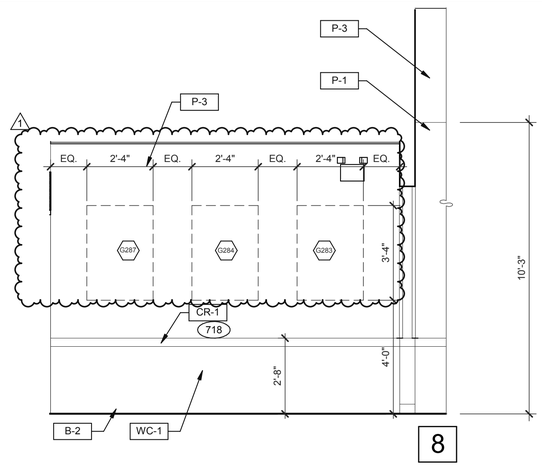
DINING 3/8" = 1'-0"



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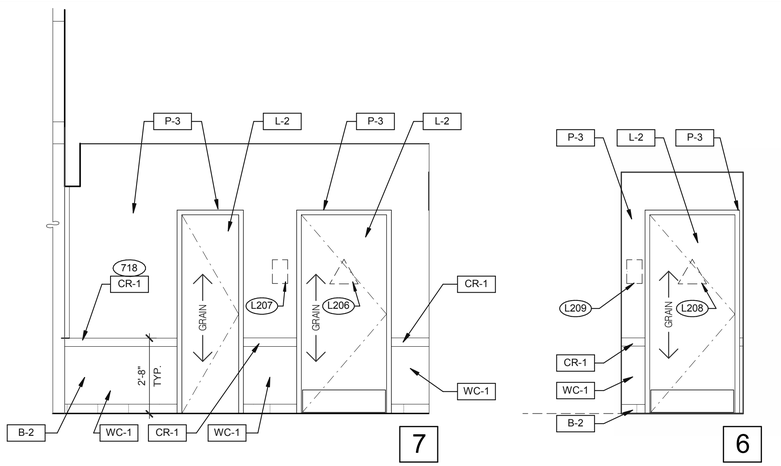

7

6

PASSAGE 3/8" = 1'-0"

703 LTO MENUBOARD.
715 SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT. SEE DETAIL 14/A6.3 AND
718 CHAIR RAIL.
754 SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT.

KEYNOTES A

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
1	04.28.22	NTP/ Plan Review Comments
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
INTERIOR ELEVATIONS DINING ROOM

A8.0

PLOT DATE: 5/3/2022 8:08:53 AM

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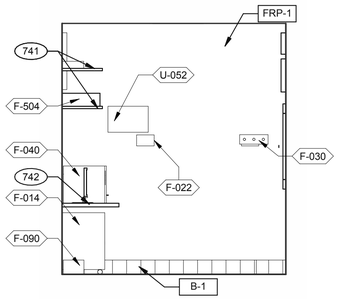
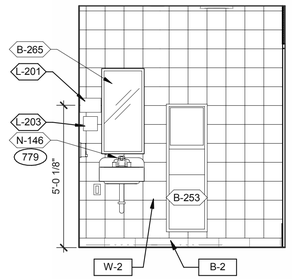
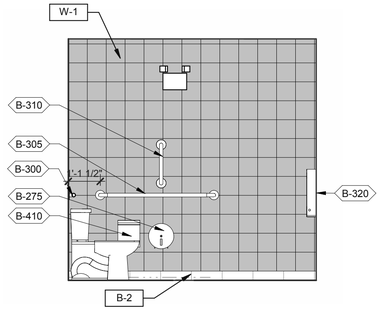


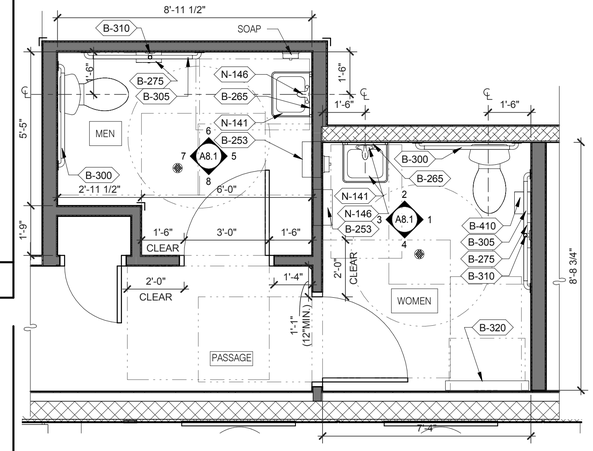
OFFICE ELEVATION 3/8" = 1'-0" **9**



MEN'S RESTROOM 3/8" = 1'-0" **5**



WOMEN'S RESTROOM 3/8" = 1'-0" **1**



ENLARGED RESTROOM / GENERAL NOTES 3/8" = 1'-0" **A**

A. PROVIDE PROPER 2x BLOCKING AT WALL RECESSED MOUNTED ACCESORIES.

B. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS. REFER TO SHEET ADA1.0

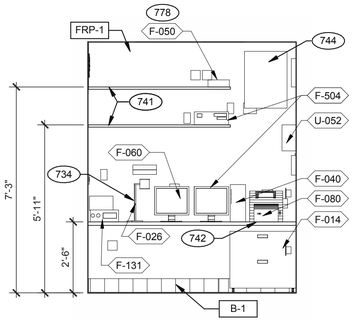
C. REFER TO FLOOR PLAN NOTE FOR BLOCKING AND SUBSTRATE NOTES.

D. REFER TO SHEET ADA1.0 FOR MOUNTING HEIGHTS AND CLEARANCES OF ACCESORIES AND FIXTURE.

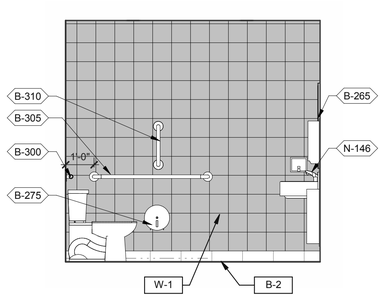
ALL DIMENSIONS THIS DRAWING ARE TO FINISH SURFACE.

* ABSOLUTE DIMENSION

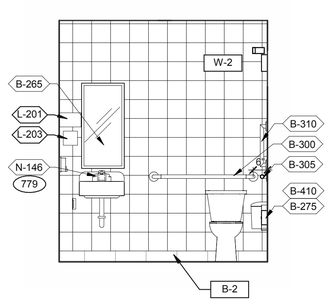
DESIGNER NOTE:
REFER TO G4.0 & G4.1 FOR SIGNAGE
REFER TO SHEET A-2.1 FOR FIXTURE LIST.



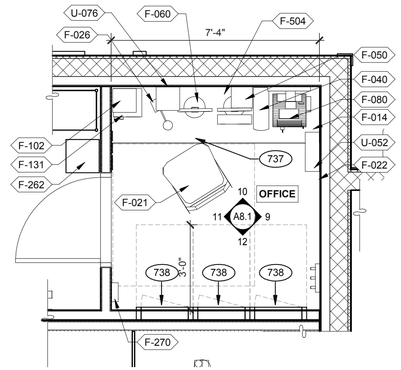
OFFICE ELEVATION 3/8" = 1'-0" **10**



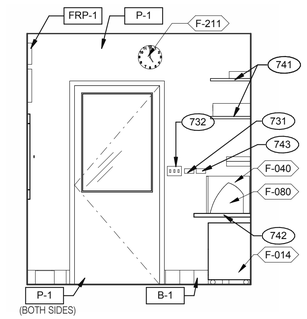
MEN'S RESTROOM 3/8" = 1'-0" **6**



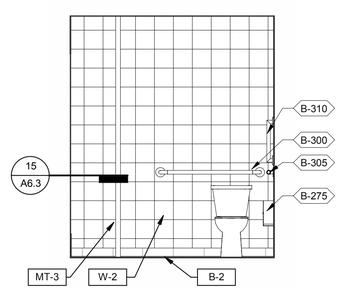
WOMEN'S RESTROOM 3/8" = 1'-0" **2**



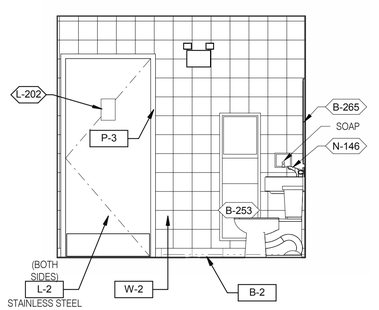
OFFICE PLAN 3/8" = 1'-0" **B**



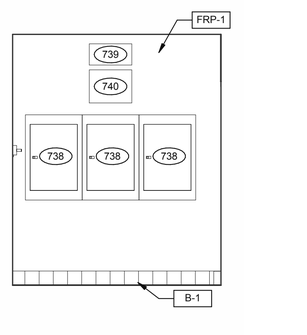
OFFICE ELEVATION 3/8" = 1'-0" **11**



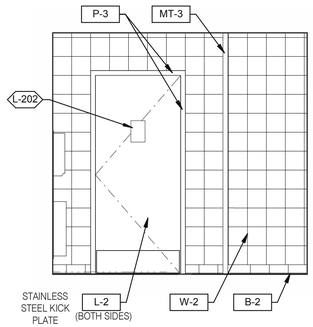
MEN'S RESTROOM 3/8" = 1'-0" **7**



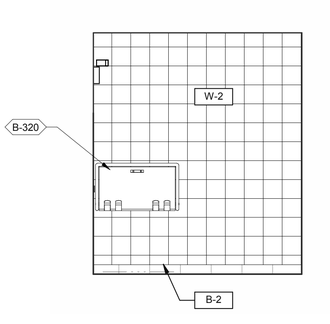
WOMEN'S RESTROOM 3/8" = 1'-0" **3**



OFFICE ELEVATION 3/8" = 1'-0" **12**



MEN'S RESTROOM 3/8" = 1'-0" **8**



WOMEN'S RESTROOM 3/8" = 1'-0" **4**

731 THERMOSTATS.
732 LIGHTING CONTROL RELAY SWITCHES. SEE DETAIL 3/E3.1.
734 DESK LAMP.
737 UNDER COUNTER KEYBOARD TRAY.
738 ELECTRIC PANELS.
739 FAN & LIGHT CONTROL BOX; REFER TO SHEET E6.0.
740 EXTERIOR LIGHTING CONTROL PANEL (GREEN GATE).
741 SHELF BY GC - FINISH WITH PLASTIC LAMINATED, L-1.
742 COUNTER BY GC - FINISH WITH PLASTIC LAMINATED, L-1.
743 DUCT SMOKE DETECTOR RESET SWITCH.
744 TECH-IN-A-BOX (WALL MOUNT RACK ENCLOSURE CABINETS): REFER TO SHEET E3.1. GC TO PROVIDE BLOCKING WHERE REQUIRED.
778 PROVIDE POWER FOR F-050.
779 PROVIDE POWER FOR N-146.

KEYNOTES **C**

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0

INTERIOR ELEV. ENLARGED RESTROOMS & OFFICE PLAN

A8.1

PLOT DATE: 5/3/2022 8:09:20 AM

C:\Users\mstaffer\Documents\19 314877 Winter Garden FL_Arch_MStaffer@PDGroup.rvt

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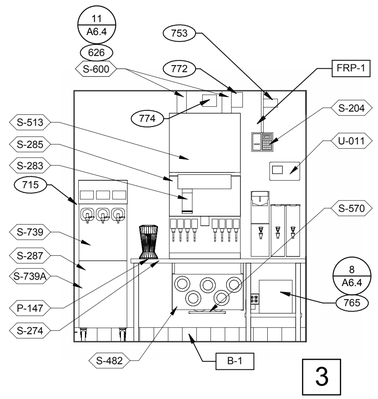
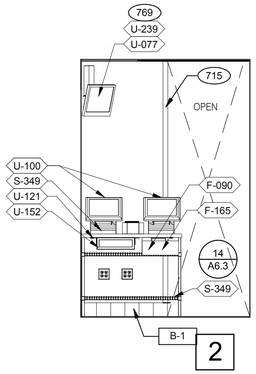
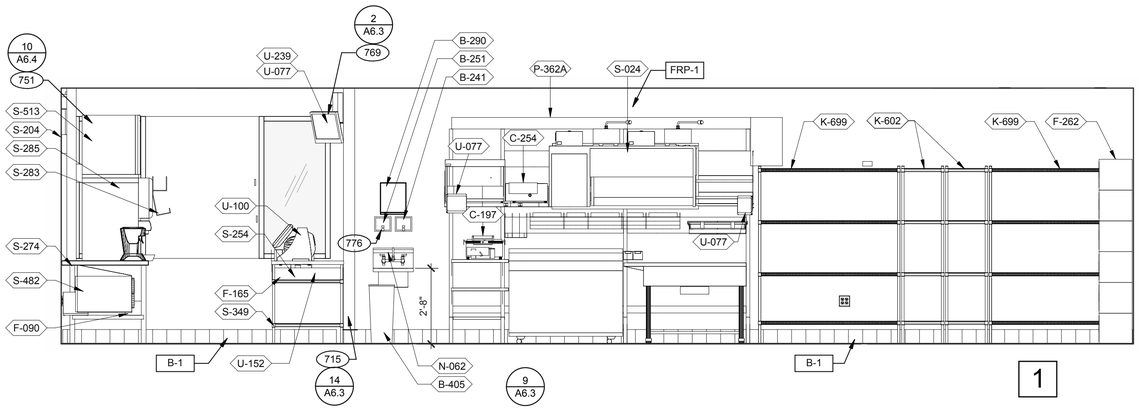


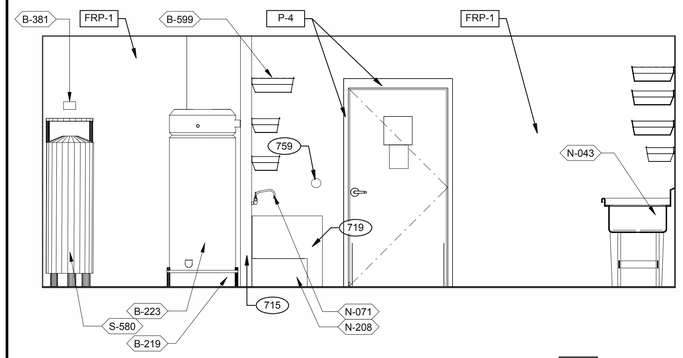


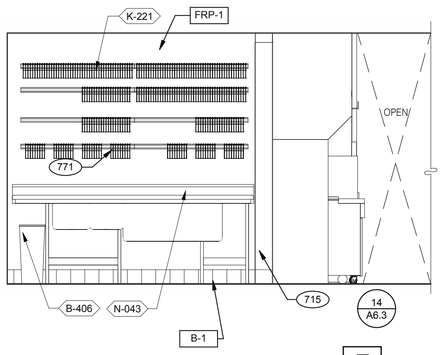


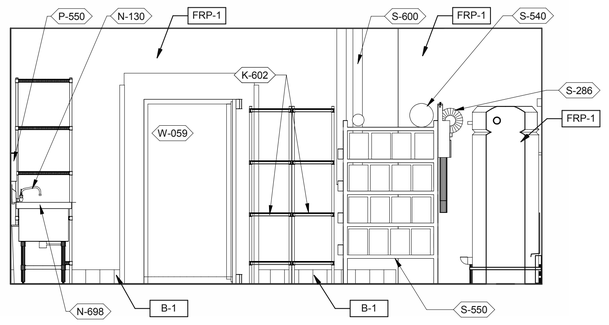
DRIVE-THRU 3/8" = 1'-0"

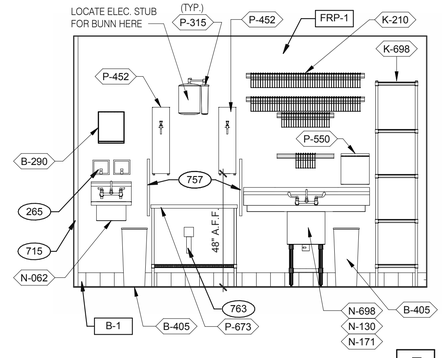
DRIVE-THRU 3/8" = 1'-0"

DRIVE-THRU AND TB COOK 3/8" = 1'-0"







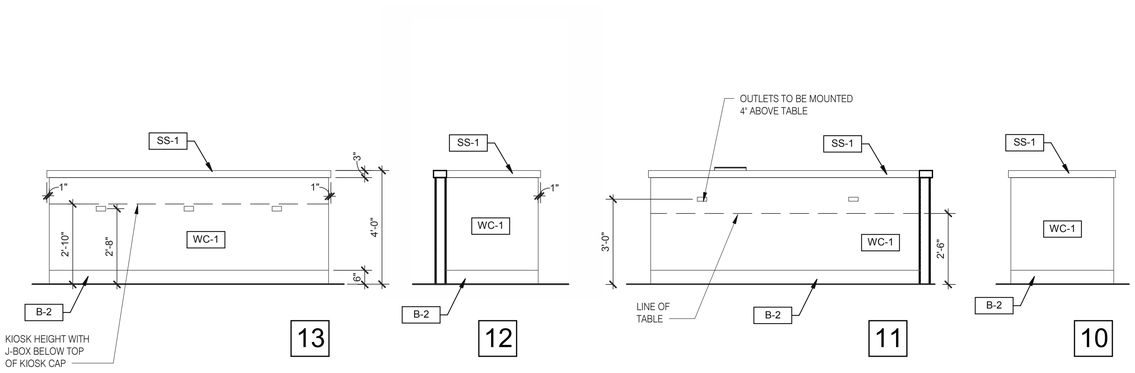


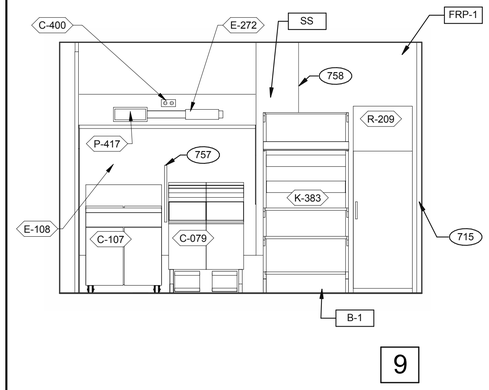
UTILITY 3/8" = 1'-0"

WARE WASHING 3/8" = 1'-0"

UTILITY 3/8" = 1'-0"

WARE WASHING 3/8" = 1'-0"





265 AUTOMATIC HAND SOAP AND SANITIZER DISPENSERS PROVIDED BY ECOLAB.
626 STAINLESS STEEL SYRUP CHASE ON WALL. SEE DETAIL 11/A6.4.
715 SS CORNER/END WALL CHANNEL GUARD, FULL HEIGHT. SEE DETAIL 14/A6.3 AND
719 STAINLESS STEEL CLOSURE WITH FLASHING AND END CAP.
751 STAINLESS STEEL CHASE FOR SYRUP LINES & ICE MACHINE REFRIGERANT LINES.
753 DRIVE-THRU TIMER DISPLAY UNIT.
757 SPLASHGUARD. SEE DETAIL 9/A6.3.
758 EDGE OF SS PANEL BEHIND HOOD.
759 ANSUL PULL STATION.
763 FILTER FOR HOT WATER SYSTEM.
765 OPENING FINISHED WITH FRP FOR SYRUP TUBES. SEE DETAIL.
769 CEILING MOUNT MONITOR BRACKET.
771 CUT WALL-HANGING TRACK TO ALLOW SPACE FOR CLICK & CLEAN SYSTEM.
772 DT TIMER SIGNAL PROCESSOR.
774 DT TIMER ETHERNET SWITCH.
776 AUTOMATIC HAND SOAP AND SANITIZER DISPENSER BY ECO-LAB.

DINING PANEL ELEVATION 3/8" = 1'-0"

COOK LINE 3/8" = 1'-0"

KEY NOTES B

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
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CONTRACT DATE: 01.25.22
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BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
INTERIOR ELEVATIONS KITCHEN

A8.2

PLOT DATE: 5/3/2022 8:09:45 AM

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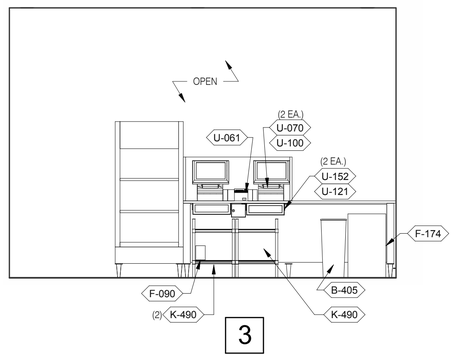

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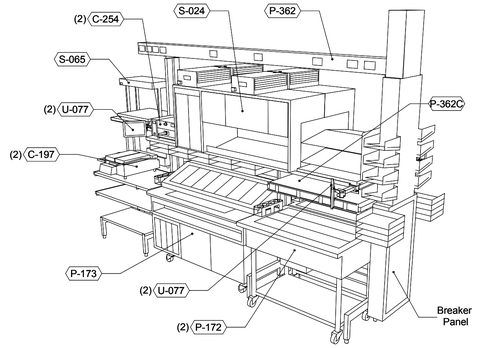

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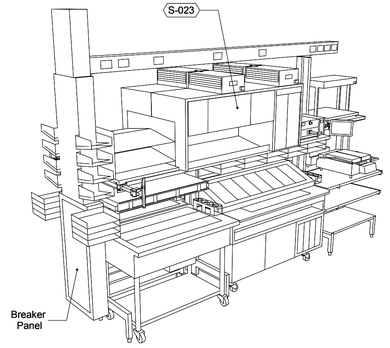
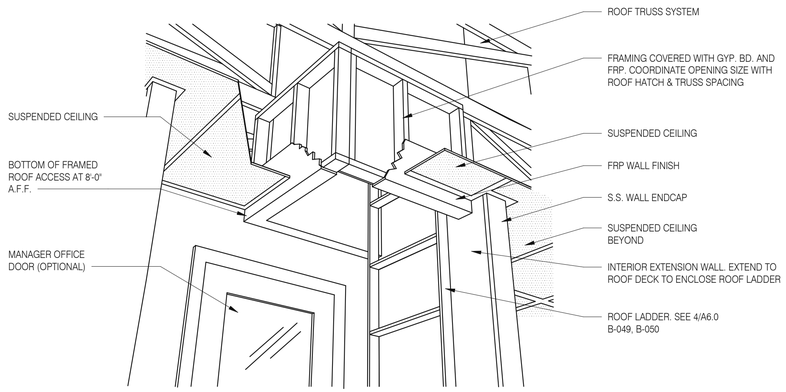


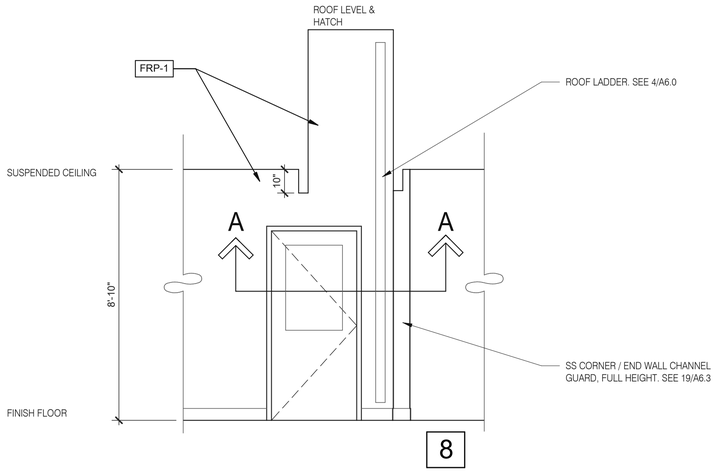
1

SERVING 3/8" = 1'-0"

P-362B FLEX DUAL-LINE 3/8" = 1'-0"

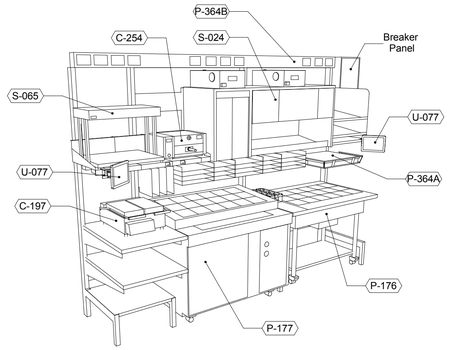


A - ROOF LADDER VIEW

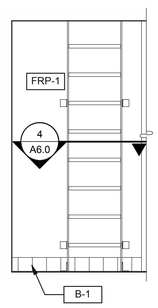


8

ROOF ACCES PASSAGEWAY 3/8" = 1'-0" **B**



P-362A FLEX I-LINE, L-R N.T.S. **7**



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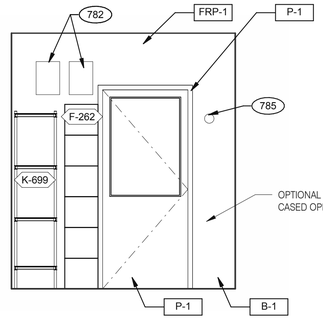

5

EMPLOYEE / STORAGE 3/8" = 1'-0"

MOP SINK INSTALLATION **C**

782 FAN MOTOR STARTERS, SURFACE MOUNTED. TYP. OF 2.
785 TEMPERATURE SENSOR, SEE MECHANICAL DRAWINGS.

KEYNOTE **A**

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
	05.05.22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
INTERIOR ELEVATIONS KITCHEN

A8.3

PLOT DATE: 5/3/2022 8:09:52 AM

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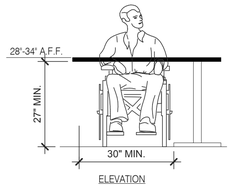
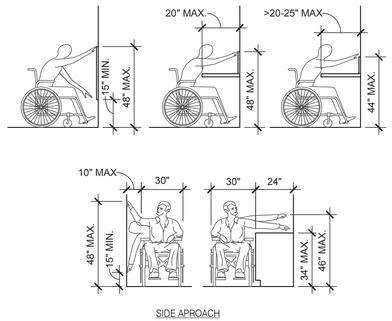
TOTAL SEATS	ACCESSIBLE SEATS
1 - 20 1	1
21 - 40	2
41 - 60	3
61 - 80	4
81 - 100	5
101 - 120	6
121 - 140	7

NUMBER OF ACCESSIBLE SEATS



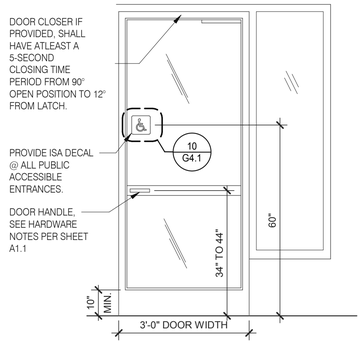
ELEVATION

SEATING AND TABLES 1/2" = 1'-0" | **18**

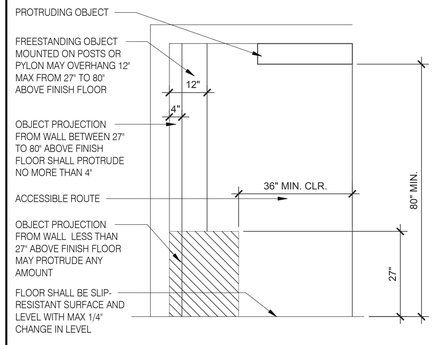


SIDE APROACH

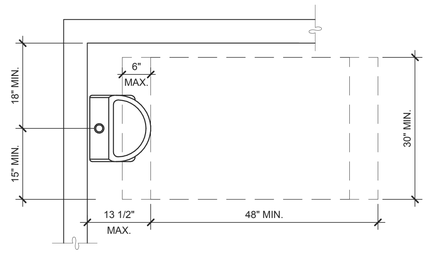
REACH RANGES 1/4" = 1'-0" | **13**



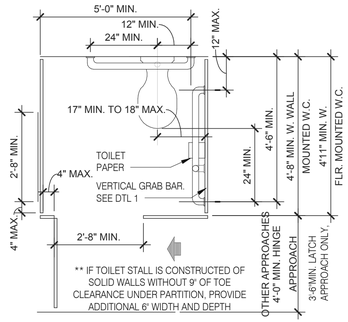
TYP. ENTRANCE / EXIT DOOR 3/8" = 1'-0" | **14**



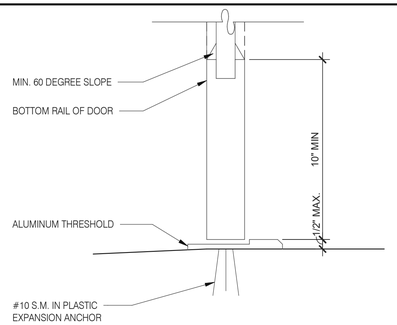
INT. ACCESS. ROUTE CLEARANCES 1/2" = 1'-0" | **10**



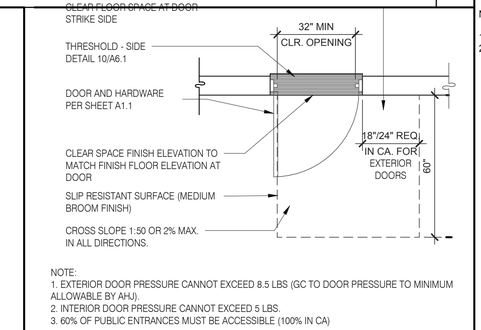
ACCESSIBLE URINAL 3/4" = 1'-0" | **6**



STANDARD TOILET STALL 1/2" = 1'-0" | **2**

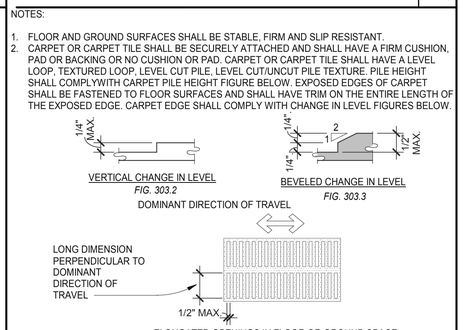


BOTTOM RAIL (EXTERIOR DOOR) 3" = 1'-0" | **20**



NOTE:
1. EXTERIOR DOOR PRESSURE CANNOT EXCEED 8.5 LBS (GC TO DOOR PRESSURE TO MINIMUM ALLOWABLE BY AHJ).
2. INTERIOR DOOR PRESSURE CANNOT EXCEED 5 LBS.
3. 60% OF PUBLIC ENTRANCES MUST BE ACCESSIBLE (100% IN CA)

EXTERIOR DOOR REQUIREMENTS 3/8" = 1'-0" | **16**

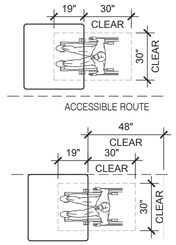


DOT HEIGHT 0.025" MIN. TO 0.037" MAX.
MEASURED CENTER TO CENTER.

BRAILLE MEASUREMENT 1/4" = 1'-0" | **11**

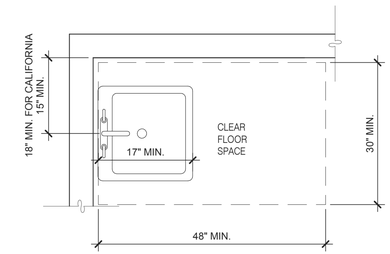
NOTES:
1. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
2. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL COMPLYWITH CARPET PILE HEIGHT FIGURE BELOW. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE SHALL COMPLY WITH CHANGE IN LEVEL FIGURES BELOW.

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**



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

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**

Mark S. Salopek, LLC

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TACO BELL

5201 HAMLIN GROVES TRAIL
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ENDEAVOR 2.0
ACCESSIBILITY REQUIREMENTS

ADA1.0

PLOT DATE: 5/3/2022 8:09:57 AM

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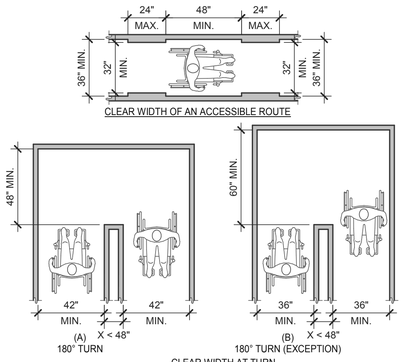
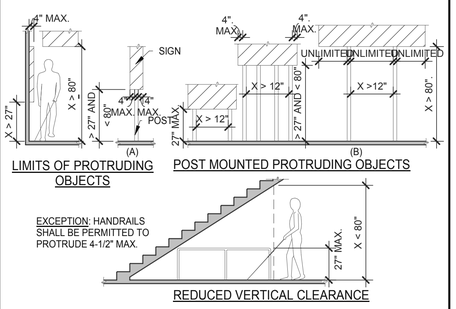


CLEAR WIDTH OF AN ACCESSIBLE ROUTE

CLEAR WIDTH AT TURN

CLEAR WIDTH 1/4" = 1'-0" | **17**



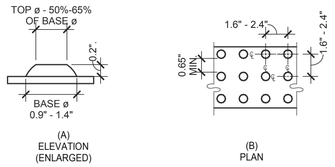
LIMITS OF PROTRUDING OBJECTS

POST MOUNTED PROTRUDING OBJECTS

EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4-1/2" MAX.

REDUCED VERTICAL CLEARANCE

PROTRUDING OBJECTS 3/16" = 1'-0" | **13**



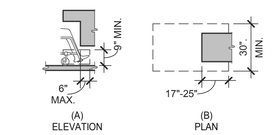
SIZE AND SPACING OF TRUNCATED DOMES

DETECTABLE WARNINGS 3" = 1'-0" | **14**

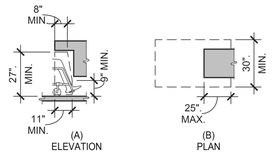
PARKING SPACES

TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2 PERCENT OF TOTAL
1001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000

PARKING SPACES 6" = 1'-0" | **15**



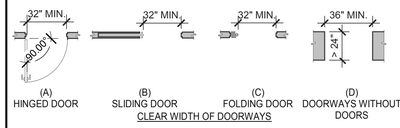
TOE CLEARANCE



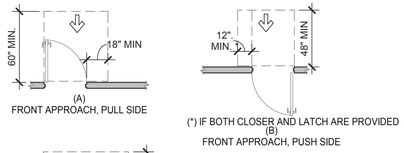
KNEE CLEARANCE

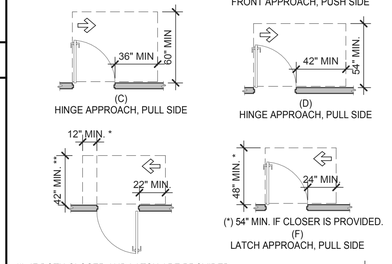
KNEE AND TOE CLEARANCE 1/4" = 1'-0" | **16**

NOTES:
1. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL AND SHALL HAVE A SLOPE NOT STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED AT DOOR LANDINGS.
2. THRESHOLDS, IF PROVIDED AT DOORWAYS SHALL BE 1/2" HIGH MAX. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL.
3. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
4. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS (22.5 N) MAX.
5. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MIN. AND 48" MAX. ABOVE THE FINISH FLOOR OR GROUND.
6. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
7. DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90° THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12° FROM THE LATCH IS 5 SECONDS MIN.
8. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70° THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MIN.
9. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
9.1. INTERIOR HINGED DOORS AND GATES: 5 LBS (22.5 N) MAX.
9.2. SLIDING OR FOLDING DOORS: 5 LBS (22.5 N) MAX.
9.3. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.7N).
9.4. EXTERIOR HINGED DOORS: 5 LBS (22.5 N) MAX.
10. SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACE SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
11. WHERE AUTOMATIC AND POWER-ASSISTED DOORS AND GATES WITHOUT STANDBY POWER ARE PART OF A MEANS OF EGRESS THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32" MIN. WHEN OPERATED IN EMERGENCY MODE.

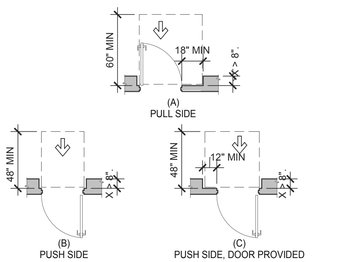


CLEAR WIDTH OF DOORWAYS





MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES



MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES

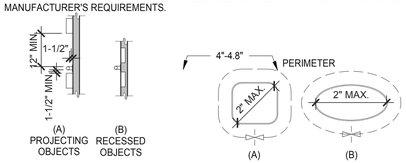
DOORS, DOORWAYS & GATES 3/16" = 1'-0" | **12**

CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.

SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.

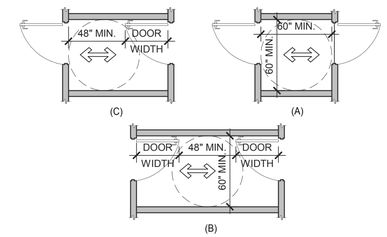
BACKING. PROVIDE MIN. 6 INCHES x 16 GA CONTINUOUS SHEET METAL BACKING ATTACHED TO MIN. 3 STUD BAYS WITH #10 FLAT HEAD SHEET METAL SCREWS. INSTALL GRAB BARS PER MANUFACTURER'S REQUIREMENTS.



SPACING OF GRAB BARS

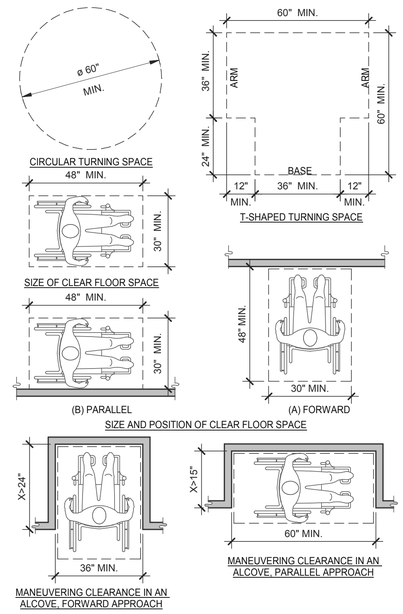
GRAB BAR NON-CIRCULAR CROSS SECTION

GRAB BARS 3/16" = 1'-0" | **5**



TWO DOORS IN SERIES

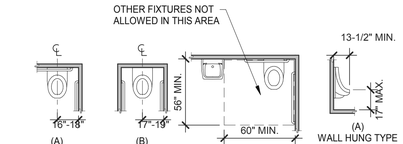
DOORS, DOORWAYS & GATES 3/16" = 1'-0" | **6**

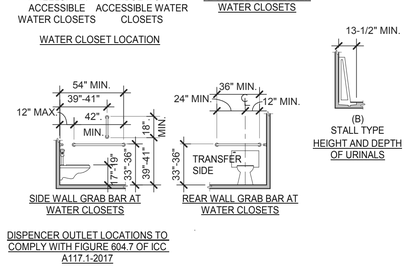


CLEAR FLOOR OR GROUND SPACE 3/8" = 1'-0" | **8**

ACCESSIBILITY NOTES

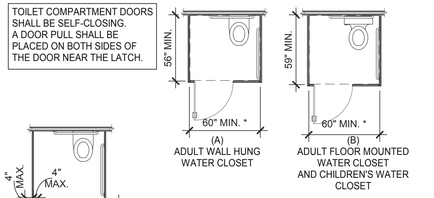
1. "THE ACCESSIBILITY GUIDELINES AND CODES" MENTIONED BELOW REFER TO ALL APPLICABLE LOCAL/STATE BUILDING CODES REFERENCED ON THE PROJECT DATA SHEET OF THIS SET IN ADDITION TO THE FEDERAL REQUIREMENTS OF THE ADA (THE AMERICANS WITH DISABILITIES ACT).
2. DETAILS ON THIS SHEET ARE FOR REFERENCE ONLY, REFER TO THE ACCESSIBILITY GUIDELINES AND CODES FOR ALL ACCESSIBILITY REQUIREMENTS.
3. THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE ACCESSIBILITY GUIDELINES AND CODES.
4. ANY DISCREPANCY CONTAINED HEREIN DOES NOT RELIEVE THE GENERAL CONTRACTOR OR OWNER FROM COMPLYING WITH THE ACCESSIBILITY GUIDELINES AND CODES.

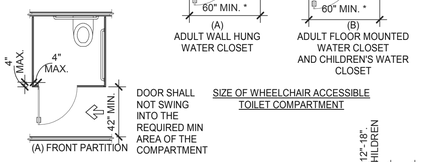


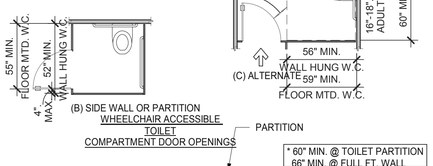


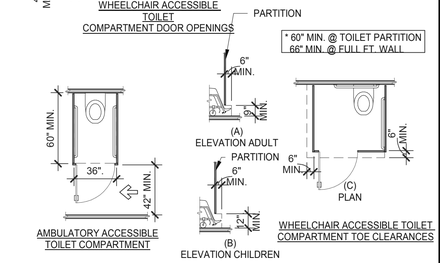
DISPENCER OUTLET LOCATIONS TO COMPLY WITH FIGURE 604.7 OF ICC A117.1-2017

TOILET COMPARTMENT DOORS SHALL BE SELF-CLOSING. A DOOR PULL SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.









WC AND TOILET COMPARTMENTS 3/16" = 1'-0" | **4**

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

DATE	REMARKS
03.02.22	Issued for Permit

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	SM
DRAWN BY.:	RS
JOB NO.:	2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
ACCESSIBILITY REQUIREMENTS

ADA1.1

PLOT DATE: 5/3/2022 8:10:03 AM

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GENERAL:

1. LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
2. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFF-SETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH KITCHEN EQUIPMENT.
3. PROVIDE FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

REFER TO SCOPE OF WORK IN DIV 23 SPECIFICATION FOR HVAC FOR TEST & BALANCE & COMMISSIONING REQUIREMENTS WHICH WILL BE SUPPLIED BY THE OWNER AND COORDINATED BY THE GC.

HVAC:

1. INSTALLATION SHALL CONFORM TO MECHANICAL AND ENERGY CODES FOR NEW NONRESIDENTIAL BUILDINGS.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
3. OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
4. E.C. SHALL PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS. REFER TO SHEETS E3.0 - ELECTRICAL POWER PLAN, SHEET E3.2-ELECTRICAL POWER ROOF PLAN, E6.0 - ELECTRICAL DETAILS - TBCCB, E6.1 - ELECTRICAL DETAILS - TBCCB, E7.0 - ELECTRICAL DETAILS, E7.1 - ELECTRICAL DETAILS.
5. PROVIDE 24V CONTROL WIRING AND FINAL CONNECTIONS. EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. REFER TO ELECTRICAL DRAWINGS SHEETS E6.1 AND E7.1 FOR ADDITIONAL LOW VOLTAGE WIRING AND CONNECTIONS.
6. PROVIDE ALL REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF AND CHARGE LINES PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
7. HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
8. SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED. ALL RETURN AND SUPPLY DUCT RISERS SHALL BE LINED (NOT WRAPPED).
9. SUPPLY / RETURN DUCTS SHALL BE RIGID (EXCEPT AS NOTED/INDICATED AS RIGID ON THE DUCT PLAN), WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY UTILIZE FLEXIBLE DUCT. ALL EXHAUST DUCT SHALL BE RIGID.
10. ROOFTOP UNITS SHALL BE ORDERED WITH FACTORY SUPPLIED AND INSTALLED RETURN SMOKE DETECTORS. WHEN REQUIRED BY MANUFACTURER, SAMPLE TUBE SHALL BE LOCATED PER FIELD INSTALLATION INSTRUCTIONS. DETECTOR SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. INCLUDE SUPPLY SMOKE DETECTOR ONLY IF REQUIRED BY LOCAL CODE.
11. HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE 3M FIRE BARRIER DUCT WRAP FOR ALL HOOD EXHAUST DUCTS. PROVIDE TRANSITION AT TERMINATION OF TYPE 1 EXHAUST DUCT TO TOP OF FAN BASE. TRANSITION SHALL BE CENTERED AND HAVE MINIMUM OF 1" PER FOOT SLOPE.
12. BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT BRANCH FEEDER. DAMPER SHALL BE MINIMUM 26 GAUGE LOCATED IN DEDICATED SLEEVE WITH AXLE AND LOCKING QUADRANT. DAMPERS SHALL NOT BE INSTALLED IN STARTER COLLARS. ALL DAMPER HANDLES SHALL HAVE A FLAG ON THE HANDLE FOR LOCATION PURPOSES.
13. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND VENTS.
14. SEE M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.
15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING HVAC TEST & BALANCE REQUIRED FOR LOCAL AUTHORITY HAVING JURISDICTION, CERTIFICATE OF OCCUPANCY, BUILDING FINAL, ETC.
16. FINAL HVAC SYSTEM TESTING AND BALANCING, AND COMMISSIONING SHALL BE PERFORMED BY INDEPENDENT AGENT. INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER IS SCHEDULED AND PAID FOR (FRANCHISEE STORES) BY GENERAL CONTRACTOR (CORPORATE STORES ARE DIRECT BILLED TO TACO BELL)". CONTRACTOR SHALL CERTIFY COMPLETION OF INSTALLATION, START UP AND PRE-COMMISSIONING CHECKLIST SHOWN ON SHEET SW2.0 BEFORE SCHEDULING OWNER'S INDEPENDENT AGENT. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, COMPLETED, STARTED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST SHALL BE INCURRED BY THE GENERAL CONTRACTOR.

    INDEPENDENT AGENTS:
    Air Care Experts
    TAB@ACE-IAQ.COM
    949 770-2222
17. WIRE ALL SMOKE DETECTORS IN RTU TO ITS RESPECTIVE REMOTE ANNUCIATOR/RESET SWITCH. INSTALL "SYSTEM SENSOR" MODEL RTS2AOS. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MANUFACTURER SPECIFICATIONS.
18. REFERENCE RTU TO TBCCB CONNECTIONS PER E6.1.
19. RTU MANUFACTURER FURNISHED THERMOSTATS SHALL BE CAPABLE OF RECIEVING AN EXTERNAL "OCCUPIED" SIGNAL.
20. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
21. REFERENCE RTU TO TBANS CONNECTIONS PER E7.1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
22. LOW VOLTAGE CONNECTIONS TO SMOKE DETECTORS, REMOTE ANNUCIATORS AND RESETS, HUMIDISTATS, THERMOSTATS, REMOTE SENSORS, TBCCB AND TBANS REQUIRE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0 CERTIFICATE.

MECHANICAL NOTES 6

SYMBOL & ABBREV.		DESCRIPTION
	SA/SUP	SUPPLY AIR (RISE/DROP)
	RA/RET	RETURN AIR DUCT (RISE/DROP)
	EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
	CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
	RR/RG	RETURN REGISTER/GRILLE
	ER/EG	EXHAUST REGISTER/GRILLE
	FLEX	FLEXIBLE DUCT (14'-0" MAXIMUM)
		ROUND DUCT ELBOW
		ROUND DUCTWORK
	MCD	MANUAL VOLUME DAMPER
		DUCT TRANSITION (RECTANGULAR TO ROUND)
T	T-STAT	PROGRAMMABLE THERMOSTAT, PROVIDED WITH HVAC PACKAGE
TS		THERMOSTAT SENSOR (REMOTE), PROVIDED WITH HVAC PACKAGE
H		HUMIDITY SENSOR (REMOTE), PROVIDED WITH HVAC PACKAGE
SD		SMOKE DETECTOR, PROVIDED WITH HVAC PACKAGE, MOUNTED IN UNIT
— D —	D	CONDENSATE DRAIN
Ø	DIA.	DIAMETER
0000 X-X		MECHANICAL EQUIPMENT DESIGNATION
R	RESET	SMOKE DETECTOR RESET

SYMBOL & ABBREV.		DESCRIPTION
	A/C, AC	AIR CONDITIONING
	A.F.F.	ABOVE FINISHED FLOOR
	BDD	BACK DRAFT DAMPER
	CB	CIRCUIT BREAKER
	CLG.	CEILING
	CONN.	CONNECT/CONNECTION
	CONT.	CONTINUATION
	CFM	CUBIC FEET PER MINUTE
	DISC.	DISCONNECT
	EA	EXHAUST AIR
	EF	EXHAUST FAN
(E)		EXISTING
	GA.	GAGE/GAUGE
	GC	GENERAL CONTRACTOR
	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
	MFR.	MANUFACTURER
	MECH.	MECHANICAL
	OA	OUTSIDE AIR
	OBD	OPPOSED BLADE DAMPER
	RA	RETURN AIR
	SA	SUPPLY AIR
	S/S	STAINLESS STEEL
	TYP.	TYPICAL

MECHANICAL SYMBOLS 7

		FAN DATA					COOLING CAPACITY			HEATING CAPACITY				ELECTRICAL DATA					
MARK	AREA SERVED	SUPPLY CFM	MIN. OA CFM	ESP	HP	RPM	NOMINAL TONS	MIN CAP (MBH) TOT/SEN	MIN EER	INPUT (MBH)	OUTPUT (MBH)	HEATING STAGES	AFUE %	VOLTS/ PH	MCA (A)	MOCP (A)	WEIGHT (LBS.)	MODEL	NOTES
RTU-1	DINING	3000	675	0.8	2	979	7.5	96.6/57.3	12.5	180	144	2	80	208/3	42	50	1443	LGH092H4B	1,2,3,4,5,6,7,8,9,10,11,12,13,14
RTU-2	KITCHEN	5000	1125	1.0	5	1045	12.5	160.0/103.9	12.3	180	144	2	80	208/3	71	90	1450	LGH150H4B	1,2,3,4,5,6,7,8,9,10,11,12,13,14

GREEN

1

SCHEDULE NOTES:
1. LISTED CAPACITY IS THE UNIT'S NET COOLING CAPACITY AT THE FOLLOWING CONDITIONS: RTU-1 - 79.1°F DB / 69.9°F WB EAT AND 95°F AMBIENT / RTU-2 - 79.5°F DB / 68.9°F WB EAT AND 95°F AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER 94°F & 76°F WB, WINTER 37°F. THERMOSTAT SHALL BE PROGRAMMED FOR 73°F IN SUMMER AND 68°F IN WINTER WITH 2°F ADJ. FUNCTION UP OR DOWN. THE UNOCCUPIED TEMP SHALL BE SET TO THE STORE SCHEDULE AND 60°F MINIMUM. SPECIFIED UNITS INCLUDE MINIMUM 2 STAGE COOLING, LOW AMBIENT CONTROL TO 0 DEG. F AND THROUGH THE ROOF CURB CURB GAS AND POWER CONNECTIONS..
2. HINGED ACCESS DOORS (FACTORY PROVIDED).
3. 2 INCH MERV 8 FILTER (FACTORY PROVIDED).
4. SINGLE ENTHALPY ECONOMIZER/W HOOD (FACTORY PROVIDED).
5. HIGH PERF ECONOMIZER (FACTORY PROVIDED).
6. STANDARD STATIC POWER RELIEF/W HOOD (FACTORY PROVIDED).
7. UNIT MOUNTED DISCONNECT SWITCH (FACTORY PROVIDED).
8. SUPPLY AIR SMOKE DETECTOR (FACTORY PROVIDED).
9. PHASE MONITOR (FACTORY PROVIDED).
10. CONSTANT AIR VOLUME (FACTORY PROVIDED).
11. 14" ROOF CURB (FIELD INSTALLED).
12. COMFORT SENSE 7500 THERMOSTAT (FIELD INSTALLED).
13. GFCI (FIELD WIRED, FACTORY INSTALLED).
14. PROVIDE HOT GAS REHEAT. HUMIDITY SENSOR TO BE MOUNTED IN THE RETURN AIR AT THE UNIT.

HVAC UNIT SCHEDULE 1

	FAN DATA								
Mark	CFM	ESP	RPM	HP	VOLTS/PH	DRIVE TYPE	MANUFACTURER	MODEL	NOTES
EF-1	1050	0.9	1344	1/2	120/1	DIRECT	STRATOVENT	#SVDU50HFA	1,3,5,6,7,8,10
EF-2	570	0.375	1025	1/4	120/1	DIRECT	STRATOVENT	#SVDR30HFA	2,4,7,8,9,10,11

GREEN

REMARKS:
1. UL 762 LISTED (GREASE)
2. UL 705 LISTED (HEAT OR STEAM)
3. FLAT ROOF CURB, 19.5" X 19.5" X 26"H, VENTED
4. FLAT ROOF CURB, 19.5" X 19.5" X 14"H
5. GREASE CUP WITH DRAIN
6. FACTORY ATTACHED HINGES
7. WEATHERPROOF PRE-WIRED DISCONNECT SWITCH
8. PROVIDE PRE-WIRED SOLID STATE SPEED CONTROLLER
9. GRAVITY BACKDRAFT DAMPER
10. FURNISHED BY OWNER WITH HOOD PACKAGE
11. FURNISHED WITH DAMPER TRAY

EXHAUST FAN SCHEDULE 2

MARK	NECK SIZE	FACE SIZE OR GRID SIZE	(NO.) & AIR PATTERN	TYPE	MAX FLOW (CFM)	MOUNTING	MATERIAL	MANUFACTURER	MODEL NUMBER	REMARKS
E-1	8"X8"	12"x12"	-	EXHAUST	200	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5S-1/ 50F	FRN SQR TO RND ADAPTER
E-2	8"DIA	24"x24"	-	EXHAUST	300	SURFACE	ALUMINUM	METAL-AIRE / TITUS	CC5-FB-TB/50F-NT	FRN SQR TO RND ADAPTER
R-1	22"X22"	24"x24"	-	RETURN	2000	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	RHE-6/50FF	HINGED/FULLY REMOVABLE FACE
S-1	15"X15"	24"x24"	4W	SUPPLY	600	LAY-IN	ALUMINUM	METAL-AIRE / TITUS	5000-6 / TDC-AA-NT	FRN SQR TO RND ADAPTER
S-2	9"X9"	14"x14"	4W	SUPPLY	250	SURFACE	ALUMINUM	METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQR TO RND ADAPTER
S-4	22"X22"	24"x24"	4W	SUPPLY	600	LAY-IN	MODULAR PLASTIC CORE	HART & COOLEY	RZMCDST	FRN SQR TO RND ADAPTER
T-1	24"X16"		VERT	RETURN	0	DUCT	ALUMINUM	TITUS	350RL	RETURN/TRANSFER AIR GRILLE

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

AIR DEVICE SCHEDULE 3

TACO BELL HAS A NATIONAL HVAC AGREEMENT WITH LENNOX NATIONAL ACCOUNTS. FOR QUOTES & TECHNICAL SPECIFICATIONS CONTACT BY EMAIL AT YUM!@LENNOXIND.COM OR 800-367-6285 ACCOUNT MANAGER BRAD SMITH.

LENNOX HAS AGREED TO SUPPLY AN HVAC PACKAGE CONSISTING OF THE ROOF-TOP UNITS, CURBS, THERMOSTATS, TEMPERATURE SENSORS (REMOTE), AND HUMIDITY SENSORS (REMOTE). RTU'S AS SPECIFIED INCLUDE AN UNPOWERED CONVENIENCE OUTLET (SEE ELECTRICAL) AND AN HACR CIRCUIT BREAKER WHICH SERVES AS UNIT DISCONNECT.

FOR HVAC TEST AND BALANCE, GC TO SCHEDULE WITH TACO BELL'S PREFERRED VENDOR PER SCOPE OF WORK WORKSHEETS. BE PREPARED AT TIME OF ORDER OR QUOTE REQUEST TO PROVIDE ALL PROJECT DETAILS REGARDING SPECIFICATIONS AND QUANTITIES AS SITE SPECIFIC DESIGN MAY NOT MATCH NATIONAL DESIGN.

SEE THE SCOPE OF WORK SHEETS FOR ADDITIONAL INFORMATION.

HVAC NATIONAL ACCOUNT NOTES 5

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	-1050	-1050
EF-2	--	--	--	-570	-570
RTU-1	675	2325	3000	--	+675
RTU-2	1125	3875	5000	--	+1125
TOTAL	1800	6200	8000	-1620	+180

NOTES:
- OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 22.5% FOR RTU-1 AND RTU-2.
- ADJUST OUTSIDE AIR INTAKES TO MAINTAIN VALUES AT ALL EVAPORATOR FAN SPEEDS.

AIR BALANCE SCHEDULE 4

GPD GROUP, INC.
LIC. # - 30920

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

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: AD
JOB NO.: 2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

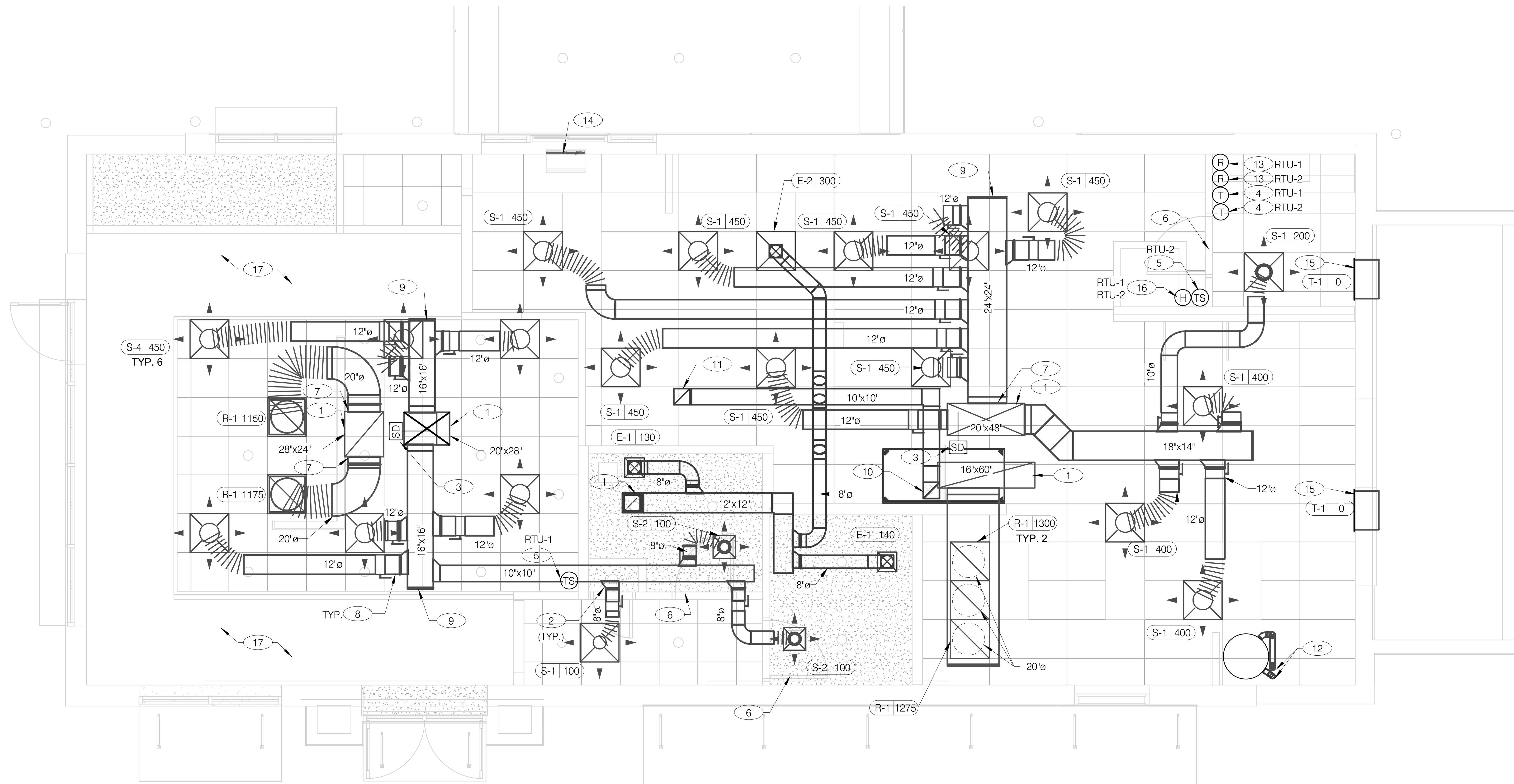
ENDEAVOR 2.0
MECHANICAL SCHEDULES AND NOTES

M1.0

PLOT DATE: 5/3/2022 8:45:16 AM

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

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102



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

N

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

1. DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND STRUCTURAL.
2. THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE AND REMOTE TEMPERATURE SENSOR (PROVIDED WITH RTU PACKAGE).
3. HUMIDITY SENSOR APPLICATION IS VARIABLE PER SITE SPECIFIC CONDITIONS. REFER TO HVAC UNIT SCHEDULE FOR APPLICATION CONDITIONS.

GENERAL NOTES - MECHANICAL NTS C

(1) AIR DUCT UP TO UNIT.

(2) SEE DETAIL 4 ON DRAWING M4.0 FOR SUPPLY AIR TAKE-OFF TO CEILING DIFFUSERS AND GRILLES.

(3) FACTORY INSTALLED SMOKE DETECTOR MOUNTED IN ROOFTOP UNIT.

(4) LOCATE THERMOSTAT CONTROLS ON WALL IN OFFICE AT 48" A.F.F. COORDINATE LOCATION WITH LIGHT SWITCHES AND OTHER WALL MOUNTED ACCESSORIES. RUN 24 VAC POWER AND SIGNAL CONDUCTORS IN TWO (2) SEPARATE TWO (2) CONDUCTOR CABLES, 18 AWG.

(5) MOUNT THERMOSTAT REMOTE SENSOR AT 60" ABOVE FINISHED FLOOR. CONNECT TO THERMOSTAT WITH 18 AWG 2 CONDUCTOR CABLE PER MANUFACTURER INSTALLATION INSTRUCTIONS. ENSURE THAT TEMPERATURE SENSOR IN DINING AREA IS NOT LOCATED ON TILE WALL.

(6) UNDERCUT RESTROOM DOORS MINIMUM 3/4" FOR MAKE-UP AIR.

(7) PROVIDE SHOE TAP AT CONNECTION TO DUCT DROP FROM ROOFTOP UNIT.

(8) RUN DUCT THROUGH OPEN WEBBING OF ROOF TRUSSES (WHERE POSSIBLE). COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.

(9) RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE UNDER ROOF JOISTS.

(10) 10"X10" EXHAUST AIR DUCT DOWN AND TRANSITION TO FIELD CUT EXHAUST CONNECTION AT HOOD.

(11) EXHAUST DUCT SHALL RUN BETWEEN ROOF JOISTS TO CONNECT TO ROOF EXHAUST FAN EF-1. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAIL 10 ON SHEET M4.0 FOR FIRE PROTECTION OF DUCT WORK. SEE DETAIL 11 ON SHEET M4.0 FOR EXHAUST DUCT TRANSITION.

(12) PROVIDE 3" PVC WATER HEATER INTAKE AND FLUE VENT. TERMINATION ON ROOF. COORDINATE WORK WITH ALL TRADES.

(13) PROVIDE SMOKE DETECTOR RESET SWITCH WITH KEY. RESET SWITCH SHALL BE "SYSTEM SENSOR" MODEL # RT5151 KEY. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MANUFACTURER'S REQUIREMENTS.

(14) PROVIDE AIR CURTAIN IN LOCATION AS SHOWN ON PLAN. MOUNT AIR CURTAIN ON MULLION DIRECTLY ABOVE SERVICE OPENING DOORS AT DRIVE-THRU WINDOW. AIR CURTAIN SHALL BE BERNER MODEL DTU03-2026A, WITH 120/1/60 POWER CONNECTION. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MORE DETAILS.

(15) TRANSFER AIR GRILLE MOUNTED ABOVE CEILING TO ALLOW TRANSFER AIR TO PREVENT FREEZING ABOVE WALK-IN COOLER/FREEZER. COORDINATE IN FIELD WITH OTHER TRADES TO ENSURE NO OBSTRUCTIONS.

(16) HUMIDITY SENSOR (REMOTE). MOUNT HUMIDITY SENSORS FOR RTU-1 & RTU-2 AT EYE LEVEL IN KITCHEN. VERIFY EXACT LOCATION.

(17) NO DUCTWORK SHALL BE EXPOSED IN THE OPEN CEILING AREA.

KEYNOTES - DUCT AND DIFFUSER NTS B

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AD
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
DUCT AND DIFFUSER PLAN

M2.0

PLOT DATE: 5/3/2022 8:45:19 AM

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GPD GROUP, INC.
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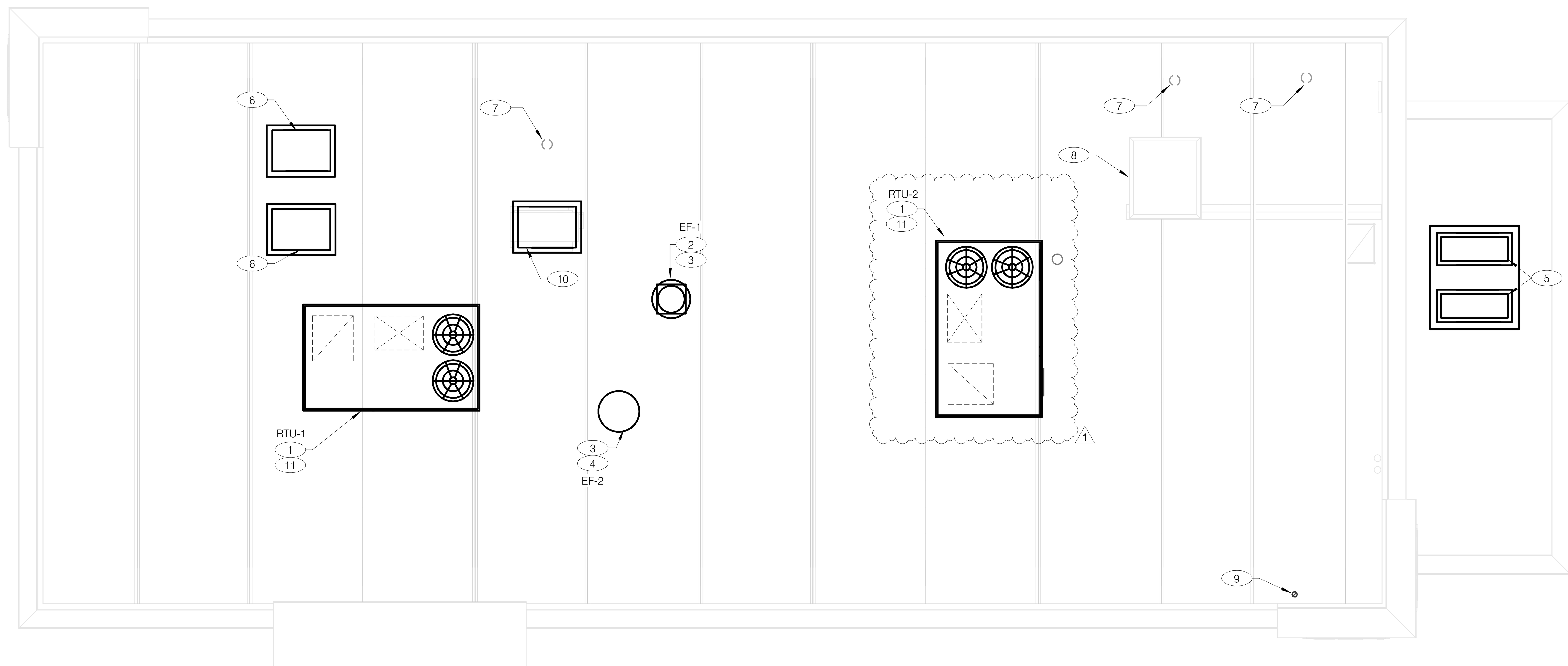


COVER ALL HVAC DUCT SYSTEMS OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.

N

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

1. PROVIDE RTU IN LOCATION AS SHOWN ON PLANS. COORDINATE EXACT RTU LOCATION AND DUCT DROPS WITH STRUCTURAL TRUSS LAYOUT. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST TERMINATIONS.
2. PROVIDE TYPE I EXHAUST FAN IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM EXHAUST HOOD UP TO EF-1 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
3. COORDINATE EXHAUST FAN LOCATION WITH ROOFTOP UNIT. MAINTAIN ROOFTOP UNIT MANUFACTURER'S REQUIRED CLEARANCE AND MINIMUM 10 FT TO ROOFTOP UNIT'S OUTSIDE AIR INTAKE.
4. PROVIDE EXHAUST FAN IN LOCATION AS SHOWN PLANS. CONNECT 10"x10" EXHAUST DUCT FROM RESTROOM EXHAUST GRILLES TO EF-2 ON ROOF. COORDINATION EXHAUST DUCT ROUTING WITH STRUCTURAL TRUSS LAYOUT.
5. CONDENSING UNIT SERVING WALK-IN COOLER/FREEZER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
6. CONDENSING UNIT SERVING ICE MAKER. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. CONTRACTOR TO FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
7. PLUMBING VENT. REFERENCE 1/P2.0.
8. ROOF HATCH. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
9. PROVIDE MANUFACTURER'S CONCENTRIC TERMINATION VENT KIT SERVING HOT WATER HEATER BELOW. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. ENSURE AT LEAST 10'-0" DISTANCE BETWEEN OUTDOOR AIR INTAKES.
10. CONDENSING UNIT SERVING FROZEN BEVERAGE MACHINE. COORDINATE EXACT LOCATION WITH ROOF LAYOUT. FIELD VERIFY EXACT REFRIGERANT PIPING. PROVIDE ALL NECESSARY PIPING ACCESSORIES INCLUDING PIPING INSULATION AND INSTALL ON APPROPRIATE EQUIPMENT SUPPORTS.
11. ALL UTILITY PIPING FOR RTU'S SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.

KEYNOTES - MECHANICAL ROOF PLAN NTS B

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AD
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
MECHANICAL ROOF PLAN

M2.1

PLOT DATE: 5/3/2022 8:45:22 AM

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

FOR REFERENCE ONLY

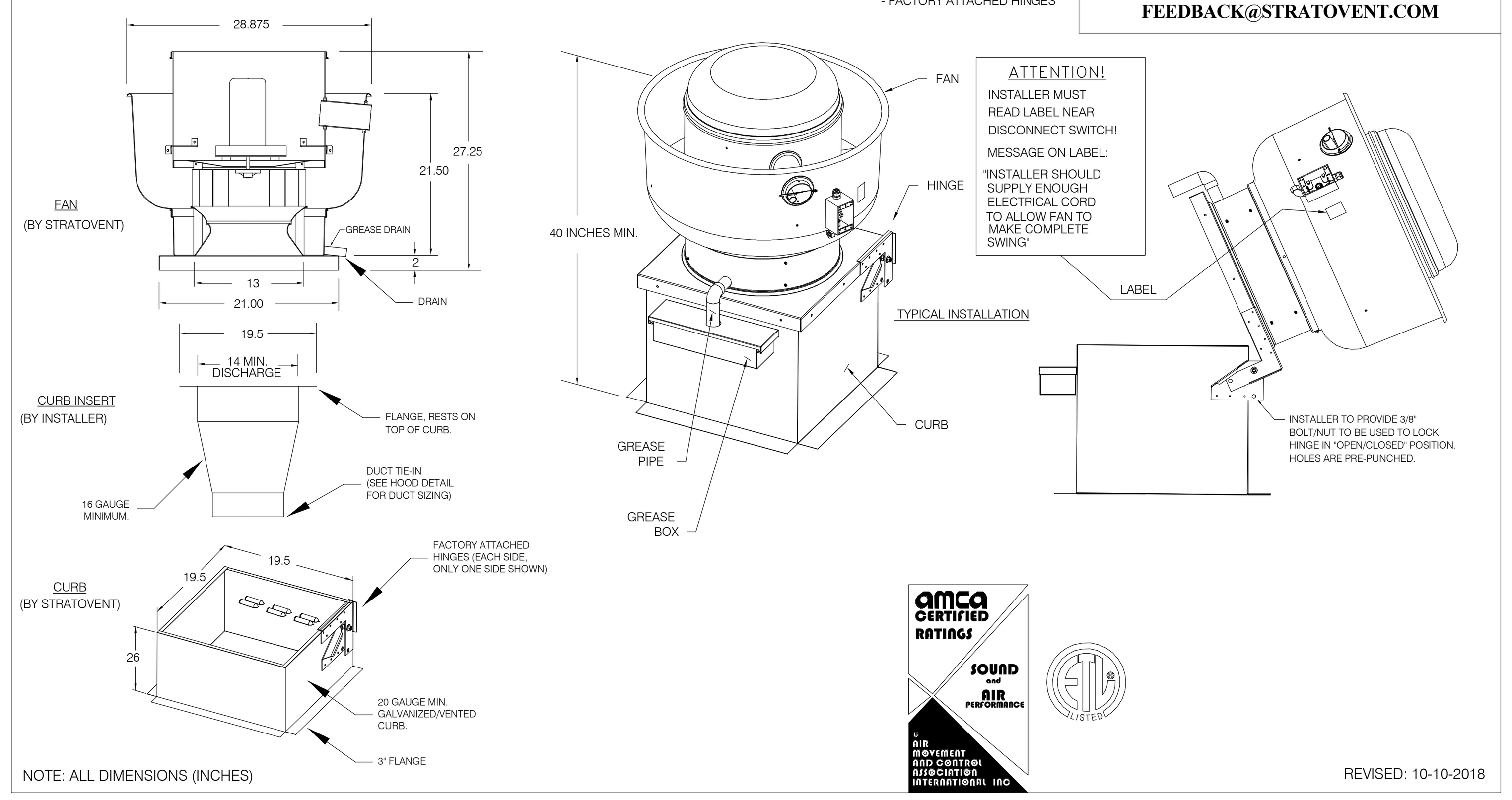
STRATOVENT MODEL# SVDU50HFA

TAG	HOOD	STRATOVENT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	▯	VOLT	FLA	MCA/MOP	WEIGHT (LBS.) FAN/CURB	SONES
EF-1	FRYER	SVDU50HFA	1050	0.9"	1429	0.50	0.33	1	115	8.4	10.5/15	85/40	14.5

SIZING NOTE: THE SELECTED FAN IS SUITABLE FOR MOST SINGLE STORY BUILDINGS. FOR LONGER DUCT RUNS, OR MULTI-STORY STRUCTURES, REQUEST A SITE ADAPT SELECTION.

SELECTED OPTIONS
- RESTAURANT MODEL
- UL762, GREASE RATED
- DIRECT DRIVEN
- SPEED CONTROLLER
- WEATHERPROOF DISCONNECT
- FLAT CURB, VENTED
- FACTORY ATTACHED HINGES

STRATOVENT
CALIFORNIA-OKLAHOMA-NORTH CAROLINA
PH: 919-573-4250
FEEDBACK@STRATOVENT.COM



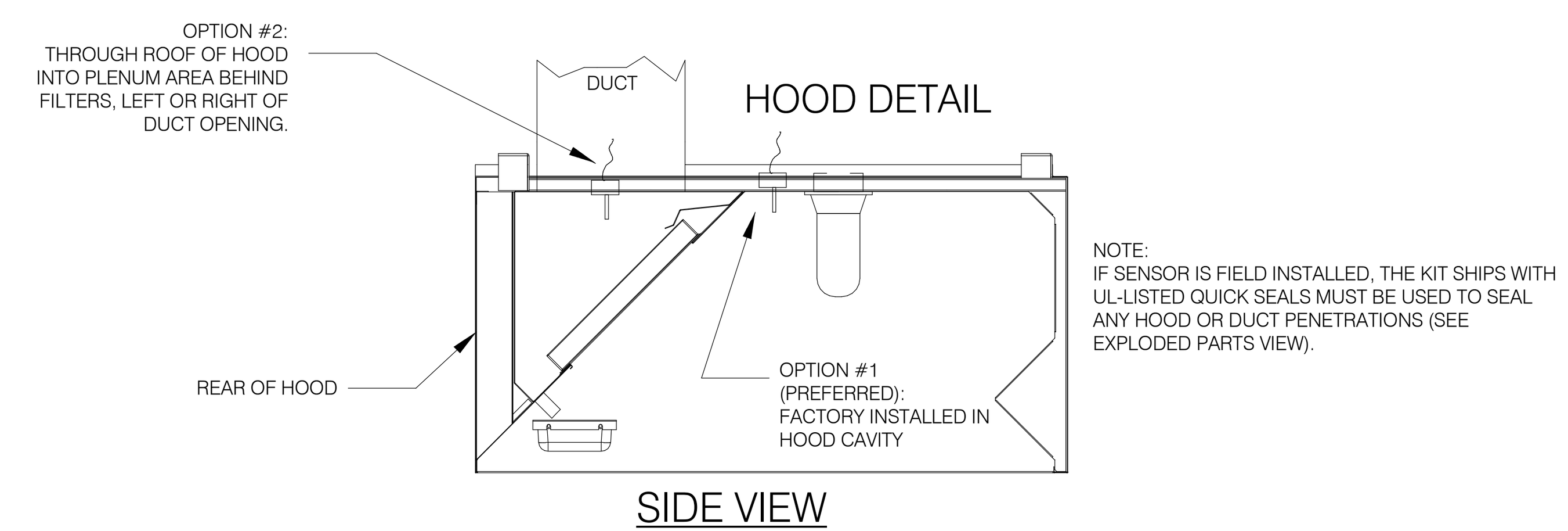
ATTENTION!
INSTALLER MUST READ LABEL NEAR DISCONNECT SWITCH!
MESSAGE ON LABEL:
"INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO ALLOW FAN TO MAKE COMPLETE SWING"

NOTE: ALL DIMENSIONS (INCHES)

REVISED: 10-10-2018

HOOD EXHAUST FAN DETAIL NTS 7

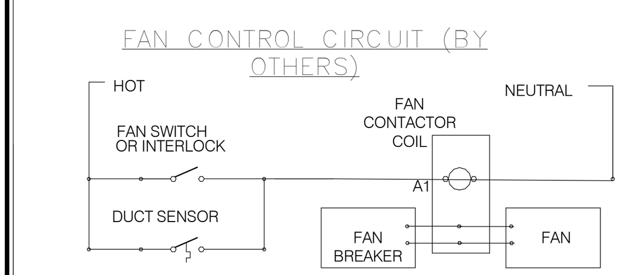
INSTALLATION: DUCT TEMPERATURE SWITCH



NOTE:
IF SENSOR IS FIELD INSTALLED, THE KIT SHIPS WITH UL-LISTED QUICK SEALS MUST BE USED TO SEAL ANY HOOD OR DUCT PENETRATIONS (SEE EXPLODED PARTS VIEW).

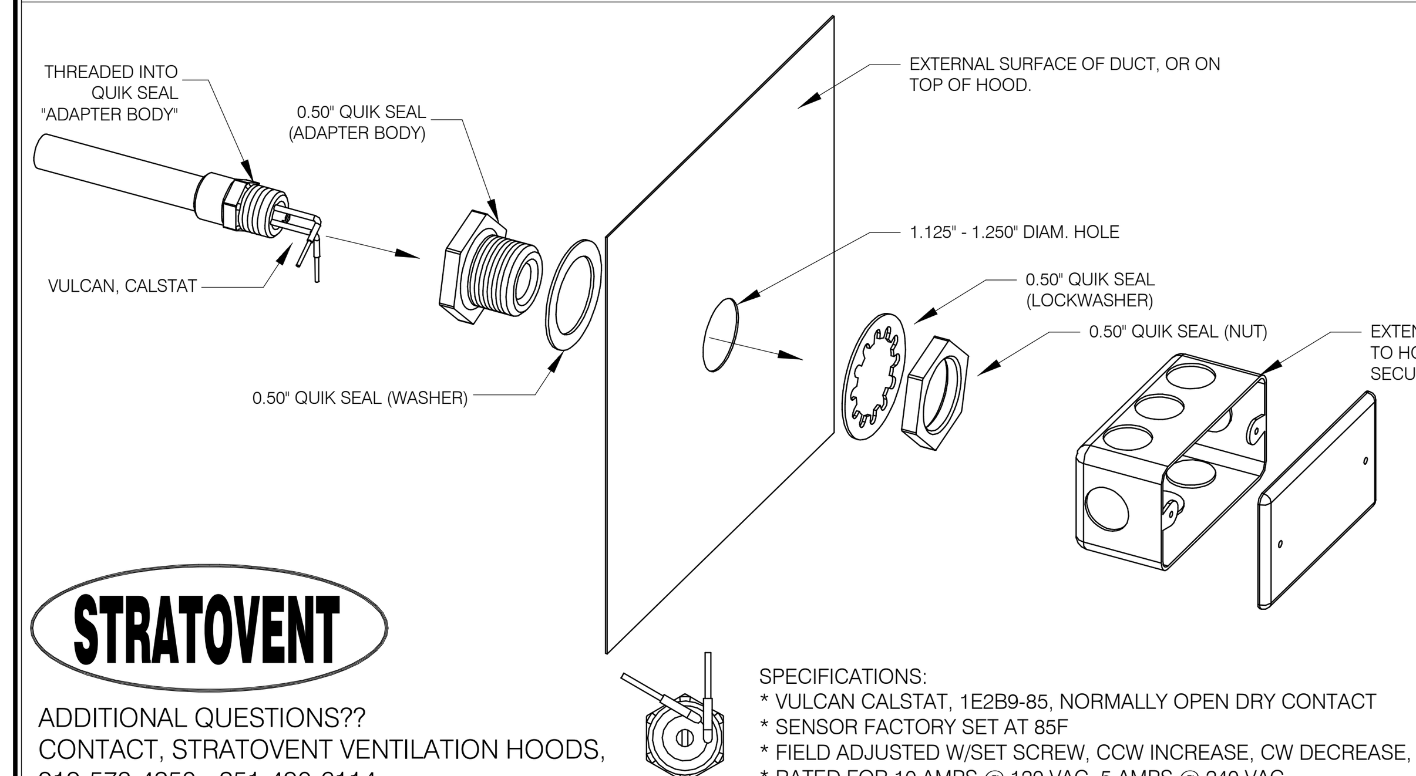
INSTALLATION: DUCT TEMPERATURE SENSOR

SENSOR DETAIL



NOTE: GENERIC WIRING DEPICTION. SEE PLANS FOR PROPER INTEGRATION.

(1) NORMALLY OPEN DRY CONTACT, CLOSES ON TEMPERATURE RISE ABOVE 85F. WIRED IN PARALLEL TO NORMAL CONTROL CIRCUIT. WHEN ORDERED, SENSOR IS FACTORY INSTALLED IN HOOD CAVITY WITH J-BOX ON TOP OF THE HOOD.
(2) DO NOT USE SENSOR AS THE PRIMARY MEANS OF FAN CONTROL. USED ONLY AS A SAFETY DEVICE PER INTERNATIONAL MECHANICAL CODE TO ENERGIZE HOOD EXHAUST FAN WHEN COOKING EQUIPMENT GENERATES HEAT.
(3) FAN CONTACTOR AND CONTROLS BY OTHERS, SEE ELECTRICAL SHEETS FOR DETAILS.
(4) SEE SPECS ABOVE FOR TEMP SET POINT ADJUSTMENT



STRATOVENT

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

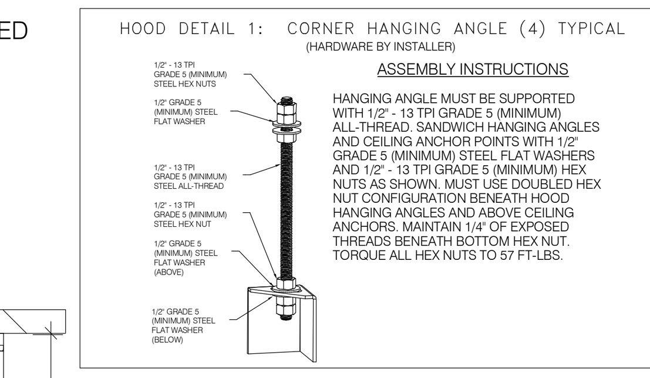
SPECIFICATIONS:
* VULCAN CALSTAT, 1E2B9-85, NORMALLY OPEN DRY CONTACT
* SENSOR FACTORY SET AT 85F
* FIELD ADJUSTED W/SET SCREW, CCW INCREASE, CW DECREASE, 90F PER REVOLUTION
* RATED FOR 10 AMPS @ 120 VAC, 5 AMPS @ 240 VAC
* SHIPPED FACTORY INSTALLED IN HOOD CAVITY

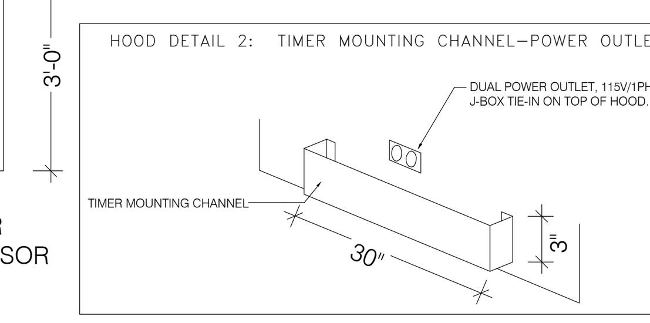
MODIFIED: 04-11-2020

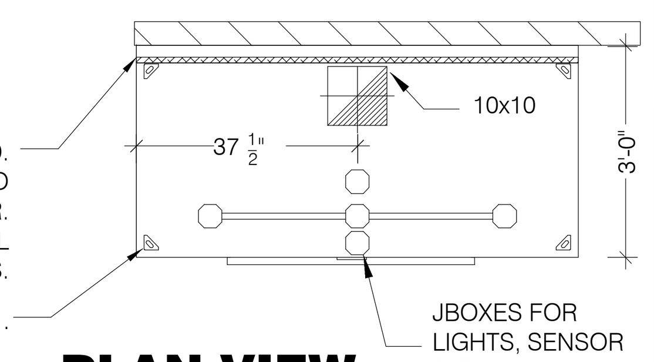
HEAT SENSOR ATTACHMENT NTS 5

HOOD # 1 OF 1	MODEL # STRATOVENT SVBD2	
LENGTH (IN): 6'-3"	WIDTH (IN): 36"	HEIGHT (IN): 14"H
EXHAUST CFM: 1050	SUPPLY CFM: BY RTU-SEE M1.0	
EXHAUST SP: 0.9" (HOOD+DUCT)	SUPPLY SP: NA	
EXHAUST FPM: 1512	SUPPLY FPM: NA	
EXH. SIZE: 10"X10"	SUP SIZE: NA	
FILTERS: (4) 16" X 16"	HOOD WEIGHT: 300 LBS	
FIRE SUPPRESSION: ANSUL-R102	FILTER TYPE: STAINLESS BAFFLE	
LIGHT QTY: (3) A19/ CFL	CONTROL SWITCH: BY OTHERS	

DESIGN NOTES:
- STRATOVENT HOODS ARE ETL LISTED TO UL-710 STANDARDS, 3054804-001
- MODEL SVBD2 IS A NON-CANOPY HOOD, "LISTED" VALUES ARE UTILIZED FOR AIRFLOW, OVERHANGS AND TEMPERATURE RATINGS.
- 18/20 GAUGE MINIMUM S/S ON EXPOSED SURFACES PER NFPA.
- HOOD IS PRE-PIPED FOR ANSUL R102, FIELD HOOKUP BY OTHERS
- INSTALLER TO REVIEW ELECTRICAL SHEETS FOR HOOD AND FAN WIRING. STRATOVENT DOES NOT PROVIDE A CONTROL BOX IN THE "BASE" PACKAGE.



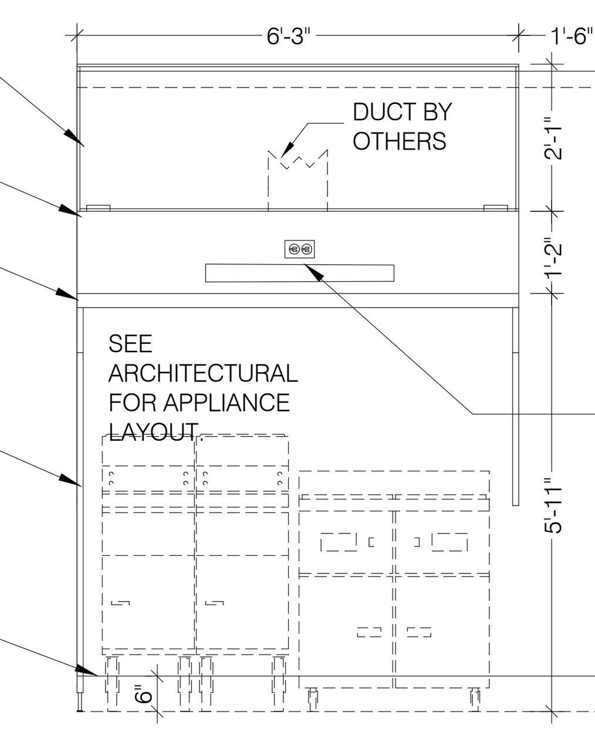




3" INTEGRAL REAR STAND-OFF. FACTORY INSULATED. HOOD ASSEBMLY IS LISTED AND LABELED FOR ZERO CLEARANCE TO COMBUSTIBLE IN THE REAR. ARCHITECT MUST VERIFY COMPLIANCE WITH ALL LOCAL CODES CONCERNING CLEARANCES.

HOOD DETAIL 1.

PLAN VIEW



25" TALL DUCT ENCLOSURE PANELS, FRONT, LEFT & RIGHT SIDES (PROVIDED WITH HOOD, GC INSTALLED).

TOP EDGE OF HOOD.

LOWER, LEADING EDGE OF HOOD, 71" ABOVE FINISHED FLOOR.

END PANELS , PROVIDED BY STRATOVENT, SEE SIDE VIEW DETAIL. FIELD INSTALLED BY GC.

106"H X 95"L, BACKSPLASH, COVERING REAR WALL AND 18" BEYOND THE HOOD. ADJUST SIZE TO SUIT SITE CONDITIONS. MINIMUM 20 GA. STAINLESS STEEL PROVIDED BY HOOD VENDOR.

TOP OF S/S BACKSPLASH, SLIGHTLY ABOVE DROP CEILING.

8'-10" HIGH, DROP CEILING (TYPICAL). HOOD PROVIDER MUST BE NOTIFIED IF CEILING HEIGHT VARIES TO ADJUST TRIM HEIGHT. VERIFY WITH ARCHITECTURAL SHEETS

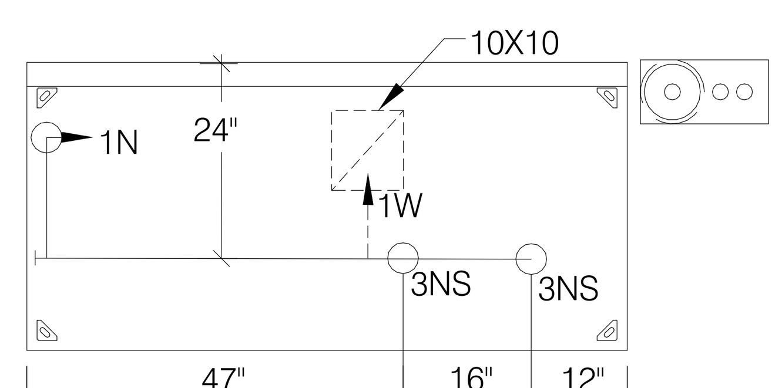
HOOD DETAIL 2: 30"L x 3"H, FACTORY ATTACHED MOUNTING CHANNEL FOR CUSTOMER SUPPLIED TIMERS. DUAL 115V/1PH OUTLET FACE MOUNTED ABOVE CHANNEL WITH J-BOX ON TOP OF HOOD.

FRONT VIEW

STRATOVENT
REDDING, CA - RALEIGH, NC
800-474-0037 - WWW.STRATOVENT.COM - 251-490-6114
(UL/ULC-710 Standard) (NSF/ANSI Standard 2) NFPA INTERNATIONAL
ETL-LISTED FILE #3054804-001 / TESTED TO UL-710

UPDATED: 6FT-3IN LONG VERSION, 04-11-2020

TACO BELL HOOD DETAIL NTS 2



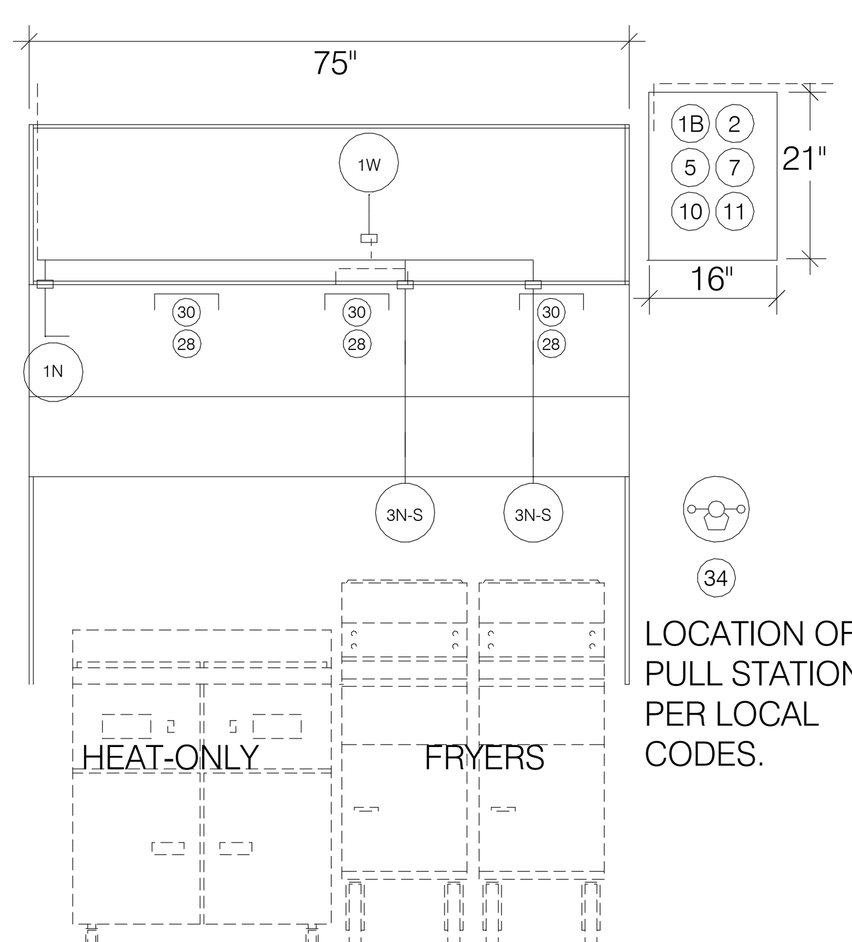
PLAN VIEW

PROJECT: TACO BELL

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

Hood #1: 6'-3" L x 36" W x 14" H
Exhaust Riser Size: 10" x 10"

NOTES
- FIELD PIPE DROPS AS SHOWN: SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY STRATOVENT FOR HOOD-BASED PIPING.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE, MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- ALL NOZZLE HEIGHT AND PLACEMENT TO BE DETERMINED BY INSTALLER AND AHJ PER ANSUL GUIDELINES.
- ALL PIPING TO BE 3/8" SCH 40 BLACK IRON.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- SYSTEM INSTALLATION AND FINAL HOOKUP SOURCED BY GEN CONTRACTOR. SYSTEM PARTS OPTIONALLY PURCHASED FROM STRATOVENT BY OWNER OR G.C..



FRONT VIEW

LEGEND – WALL MOUNTED ANSUL SYSTEM

34 LOCATION OF PULL STATION PER LOCAL CODES.

1B 3.0 GALLON TANK
2 AUTOMAN RELEASE
5 ANSULEX LIQUID AGENT (3.0 GAL.)
7 CARTRIDGE (101-20)
10 TEST LINK
11 DOUBLE MICROSWITCH
1W NOZZLE ASSEMBLY (419336)
1N NOZZLE ASSEMBLY (419335)
3N NOZZLE ASSEMBLY (419338)
28 DETECTOR BRACKET
30 HIGH TEMP FUSIBLE LINK
MGV MECHANICAL GAS VALVE
34 REMOTE MANUAL PULL STATION
S SWIVEL ADAPTOR

DESIGN NOTE:
1) ABOVE DEPICTION SHOWS DUAL FRYERS ON RIGHT END OF THE HOOD. HOOD SUPPLIER WILL VERIFY EQUIP LAYOUT PER PLANS AND PLACE FRYER NOZZLES ON THE LEFT END WHEN APPROPRIATE TO SUIT SITE CONDITIONS

TACO BELL HOOD FIRE SUPPRESSION SYSTEM PLAN 12" = 1'-0" 6

1. Hoods shall be constructed of minimum 20 gauge stainless steel with # 3 polish. All unexposed surfaces shall be constructed of minimum 18 gauge aluminized steel.
2. UL classified aluminum or stainless steel baffle-type filters shall be easily removed for cleaning. Filter housing shall terminate in a pitched grease trough that drains into a removable stainless steel grease cup.
3. UL listed and NSF approved vapor proof incandescent light fixtures pre-wired to junction box at top of hood in accordance with NEC 70.
4. Pre-piped fire suppression systems shall be located on the top of the hood and provided with the hood or by a certified technician. Final location of all nozzles and fire suppression drops to be locally approved and inspected.
5. Hood(s) shall be fabricated in accordance with NFPA Bulletin #96 and shall bear the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE# 3054804-001.

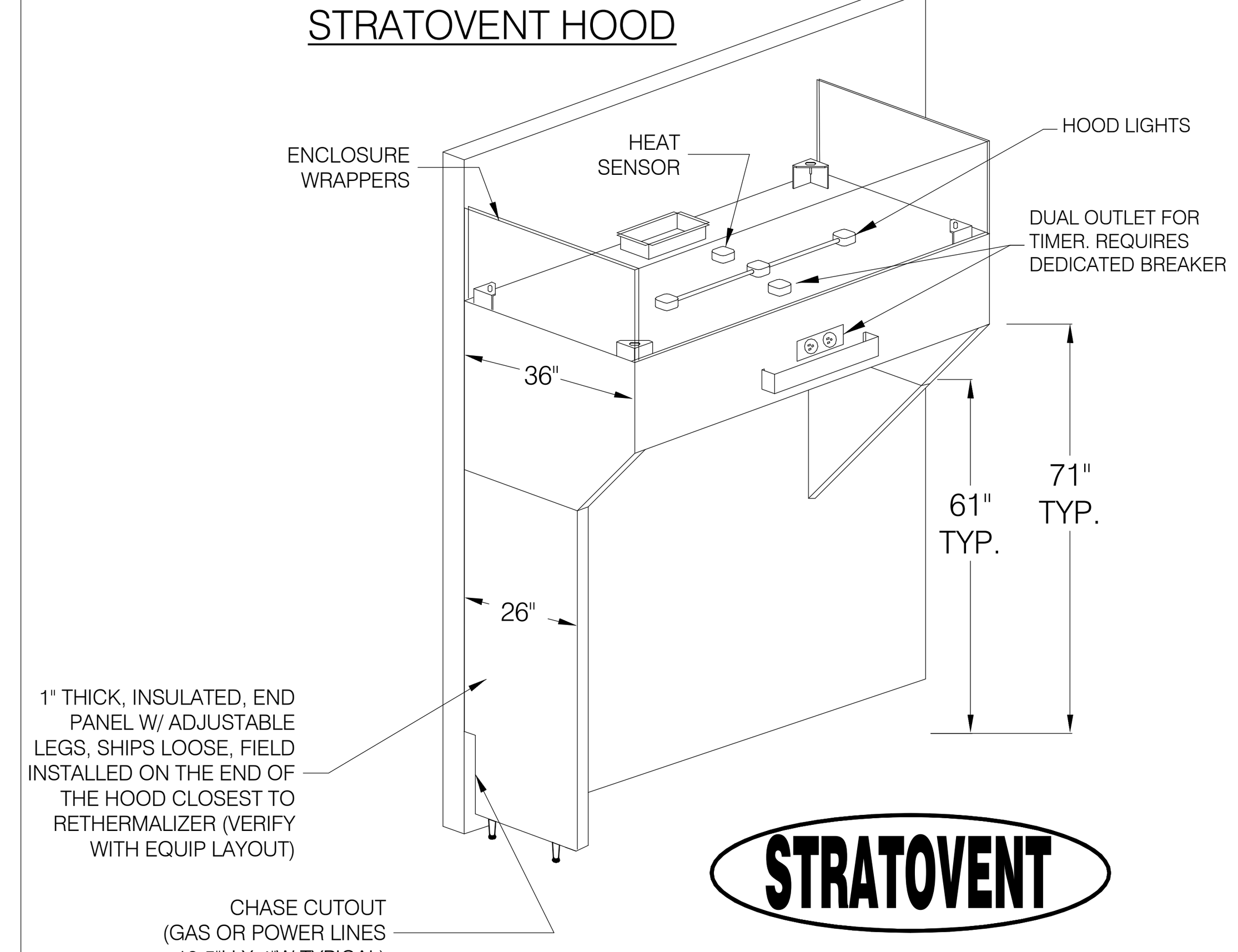
5. Hood(s) shall be fabricated in accordance with NFPA Bulletin #96 and shall bear the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE# 3054804-001.

NSF LISTED NAPA INTERNATIONAL

THIS HOOD DESIGN IS BASED UPON STRATOVENT, MODEL SVND2. MANUFACTURED BY:

STRATOVENT VENTILATION HOODS
RALEIGH, NC 27616
CONTACT: JEFF JOHNSON, 251-490-6114

HOOD NOTES AND SPECS (TYP.) NTS 4



STRATOVENT-BRAND HOODS ARE CERTIFIED BY ETL-INTERTEK TO NATIONALLY RECOGNIZED UL-710 AND NSF STANDARDS.

CONTACT US:
WWW.STRATOVENT.COM
919-573-4250
FEEDBACK@STRATOVENT.COM

HOOD ISOMETRIC 12" = 1'-0" 3

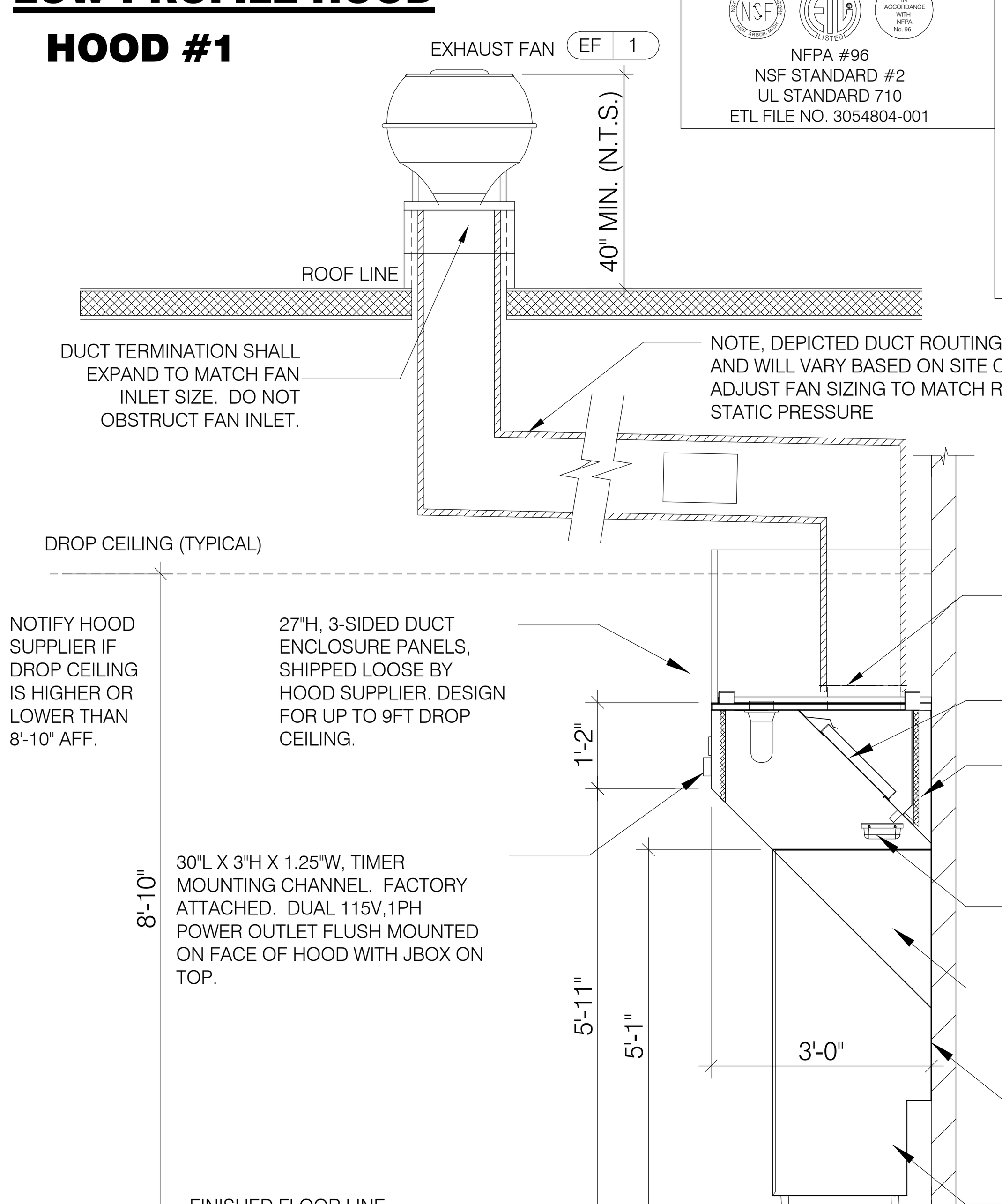
LOW-PROFILE HOOD

HOOD #1

STRATOVENT HOODS BUILT IN COMPLIANCE WITH
NFPA #96
NSF STANDARD #2
UL STANDARD 710
ETL FILE NO. 3054804-001

NON-CANOPY HOOD DESIGN BASED ON:
MANUFACTURER: STRATOVENT, MODEL SVBD2
ETL LISTED UL/ULC-710, ULC-S646: # 3054804-001
MIN. "LISTED" AIRFLOW: 150 CFM PER LINEAR FT
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



DUCT TERMINATION SHALL EXPAND TO MATCH FAN INLET SIZE. DO NOT OBSTRUCT FAN INLET.

NOTE, DEPICTED DUCT ROUTING IS GENERIC AND WILL VARY BASED ON SITE CONDITIONS. ADJUST FAN SIZING TO MATCH REQUIRED STATIC PRESSURE

DROP CEILING (TYPICAL)

NOTIFY HOOD SUPPLIER IF DROP CEILING IS HIGHER OR LOWER THAN 8'-10" AFF.

27"H, 3-SIDED DUCT ENCLOSURE PANELS, SHIPPED LOOSE BY HOOD SUPPLIER. DESIGN FOR UP TO 9FT DROP CEILING.

30"L X 3"H X 1.25"W, TIMER MOUNTING CHANNEL. FACTORY ATTACHED. DUAL 115V,1PH POWER OUTLET FLUSH MOUNTED ON FACE OF HOOD WITH JBOX ON TOP.

FINISHED FLOOR LINE

FIELD CUT OPENING BY INSTALLER, TRANSITION PER PLANS. IF SELECTED, A HOOD MOUNTED HEAT SENSOR WILL BE FACTORY INSTALLED IN ROOF OF HOOD FOR AUTOMATIC ACTIVATION.

16"H, UL-LISTED, S/S BAFFLE FILTERS.

3" INTEGRAL REAR STAND-OFF, FACTORY INSULATED. HOOD ASSEMBLY IS LISTED FOR ZERO CLEARANCE TO COMBUSTIBLE IN THE REAR. COMPLIANCE WITH ALL LOCAL CODES VERIFIED BY ARCHITECT.

GREASE CUP

26" X 26" END PANELS, SHIPPED LOOSE AND GC INSTALLED. PROVIDED BY HOOD VENDOR.

20 GA. MIN S/S WALL PANEL COVERING REAR WALL. EXTENDING 18" BEYOND THE HOOD. PROVIDED BY STRATOVENT.

FULL END PANEL ON END OF HOOD CLOSEST TO THE RETHERMALIZER. PROVIDED BY HOOD VENDOR.

SIDE VIEW

UPDATED: 6FT-3IN LONG VERSION, 04-11-2020

TACO BELL HOOD SECTION 12" = 1'-0" 1

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
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BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: AD
JOB NO.: 2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 1.0
HOOD DETAILS AND SECTIONS

M3.0

PLOT DATE: 5/3/2022 8:45:24 AM

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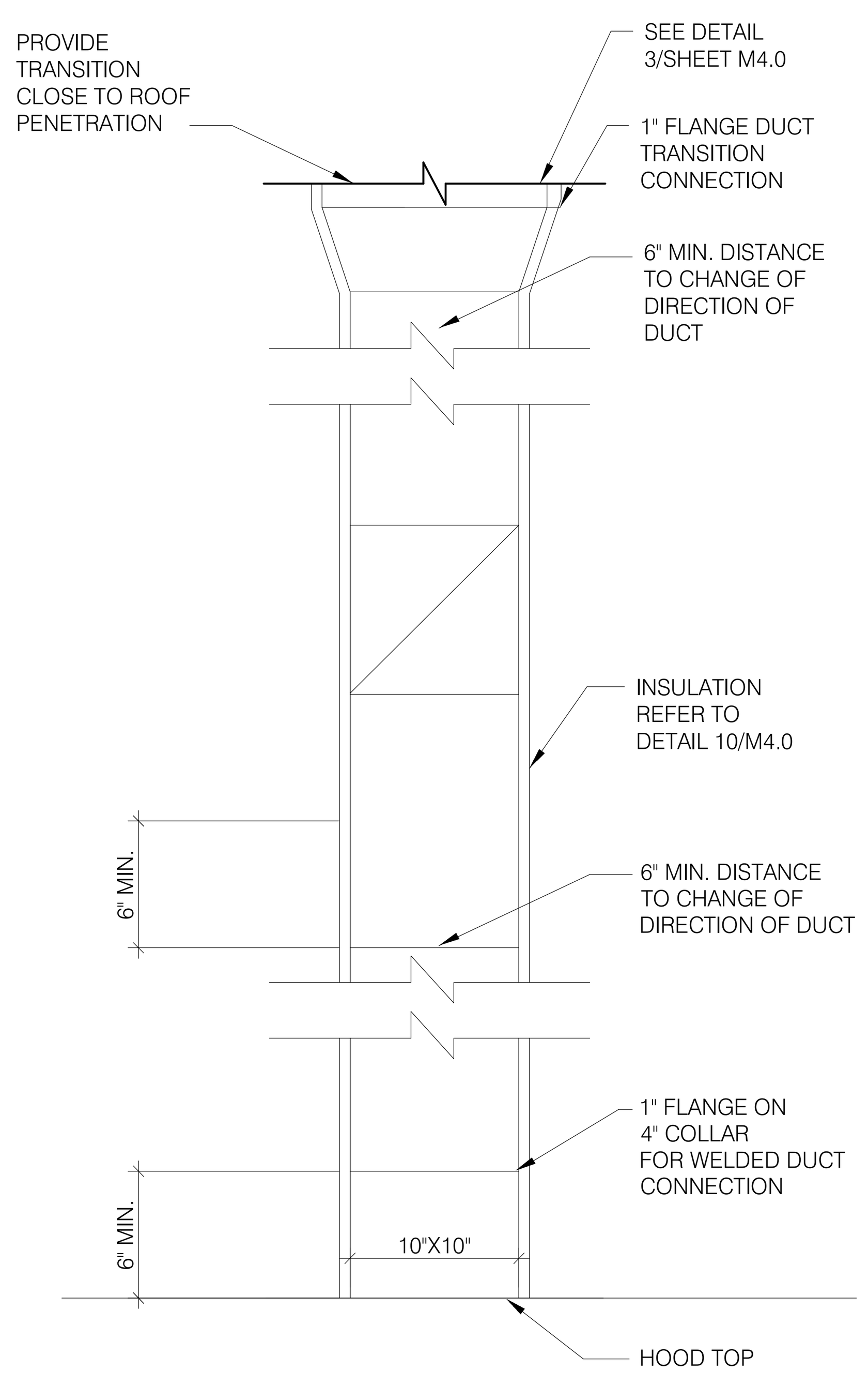
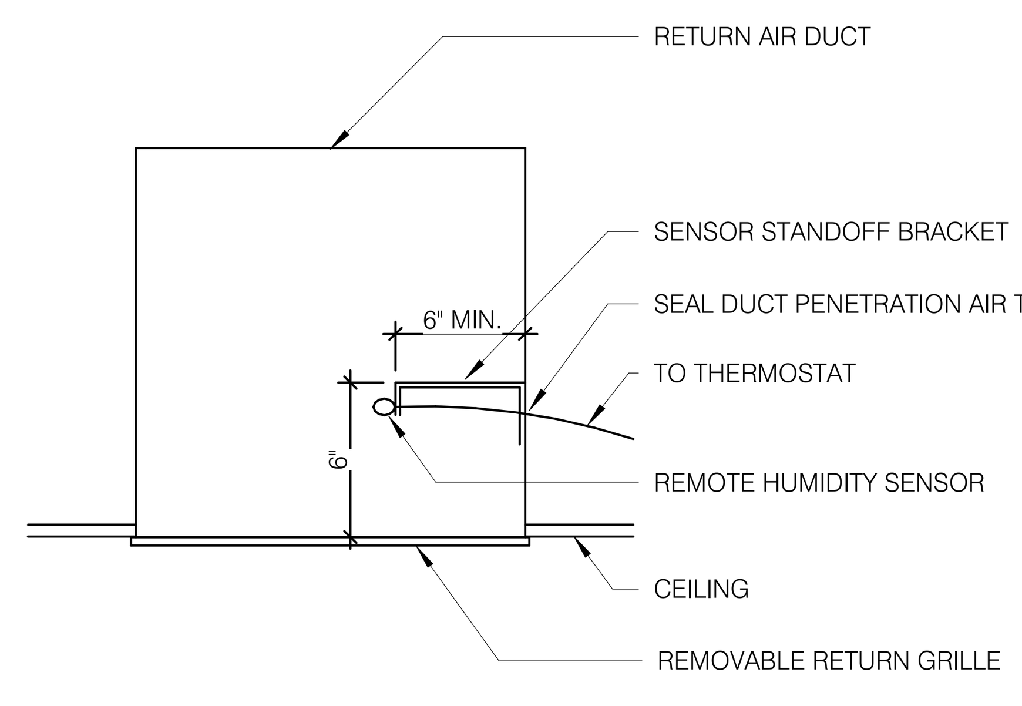
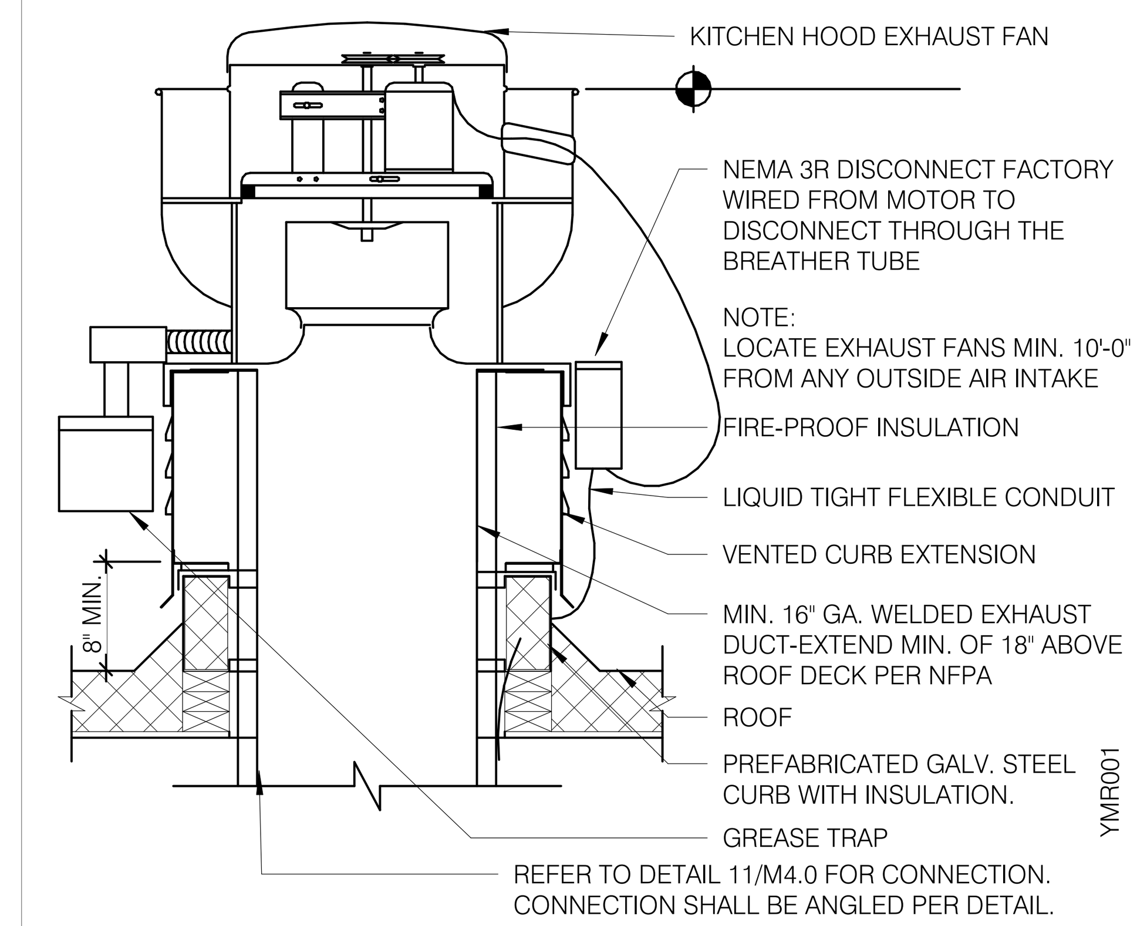


TB HOOD DUCT TRANSITION NTS 11

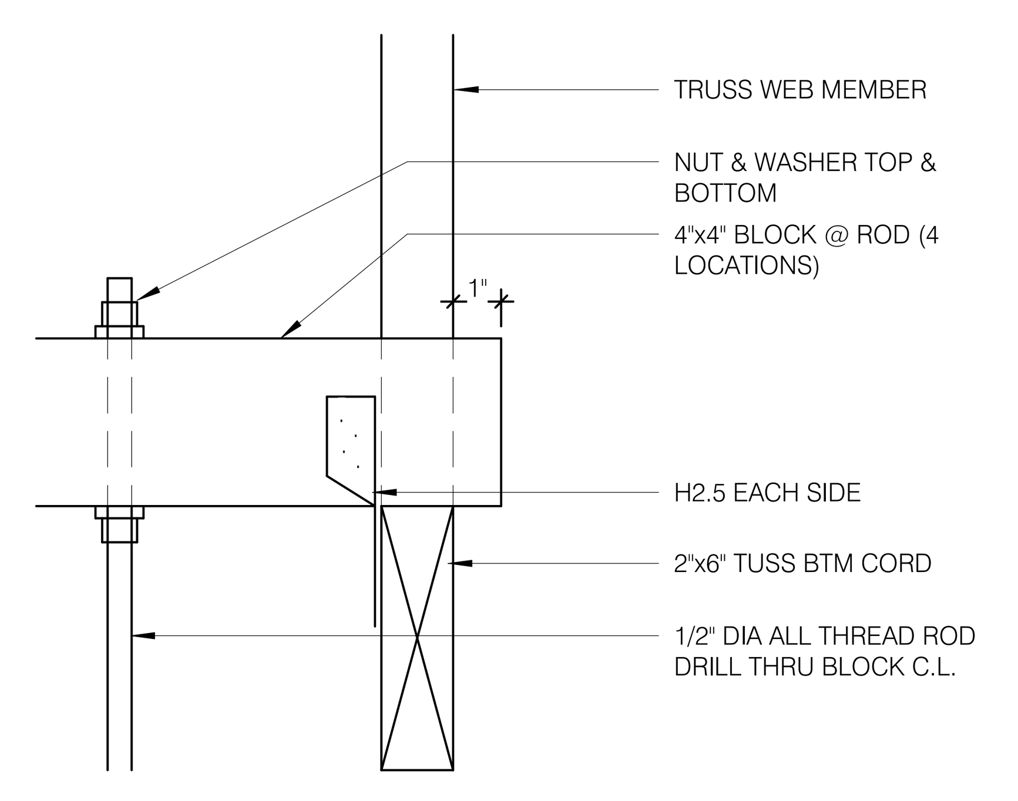


REMOTE HUMIDITY SENSOR NTS 8

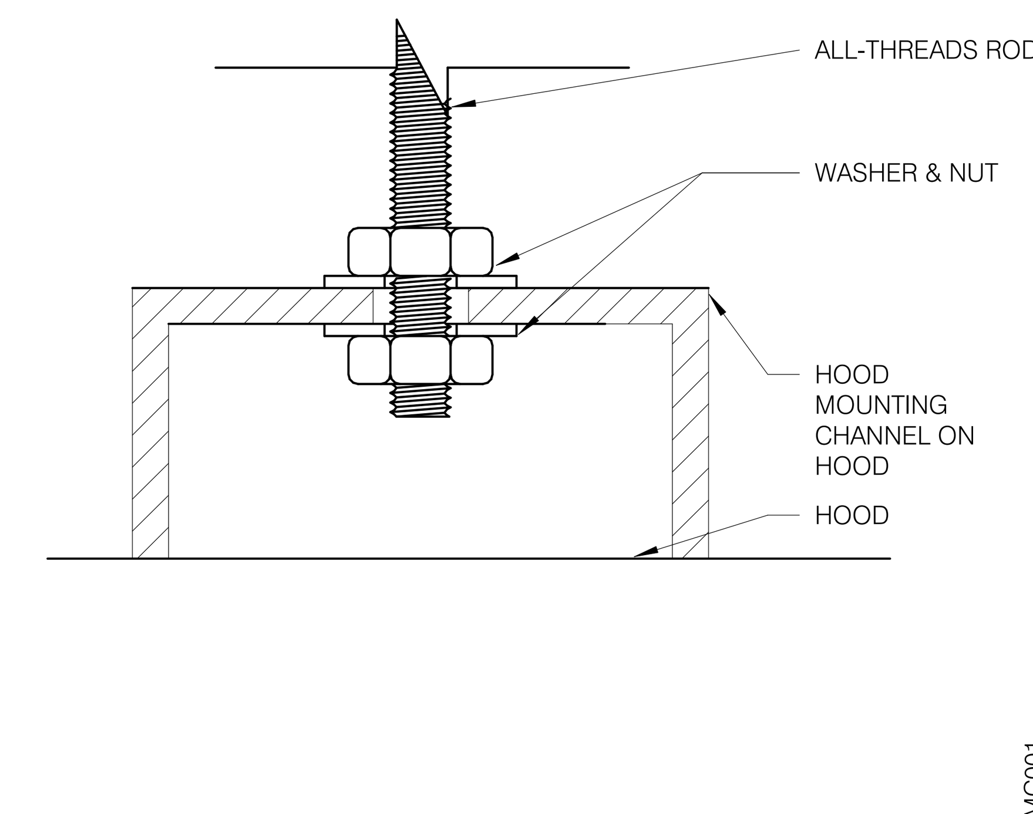
NOT USED NTS 6



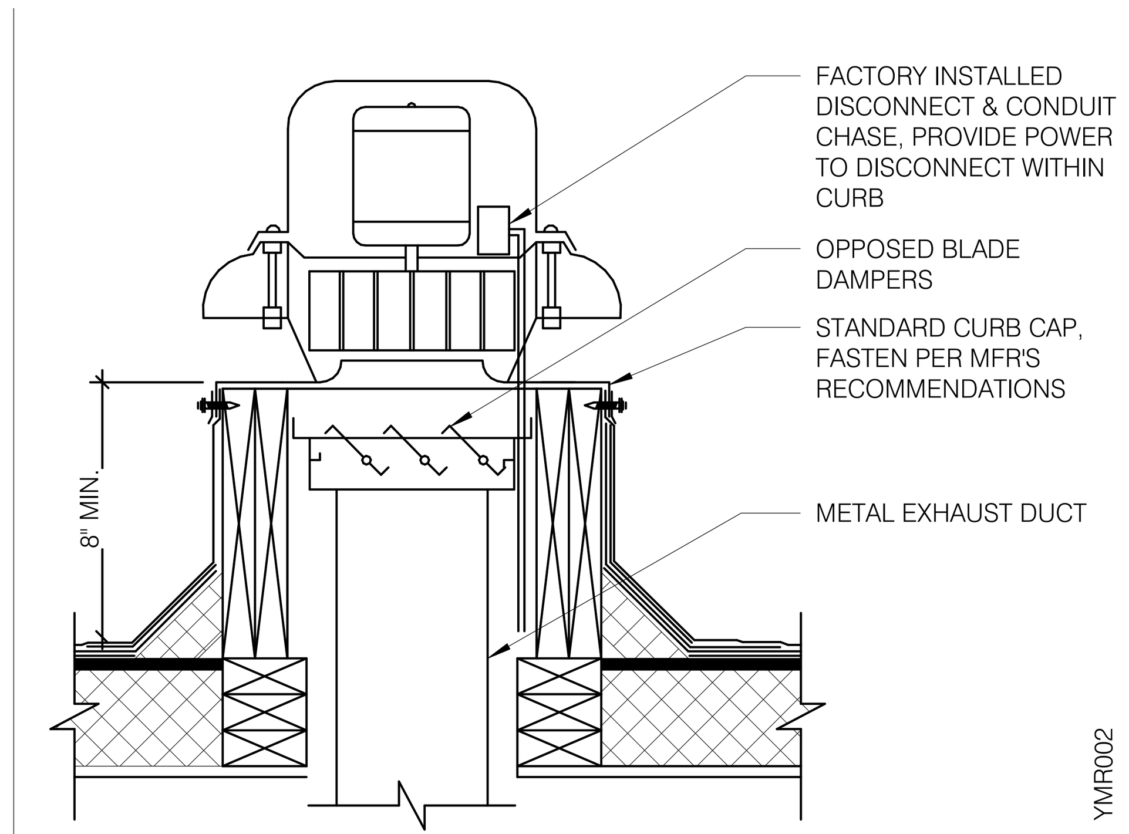
EXHAUST FAN (EF-1) NTS 3



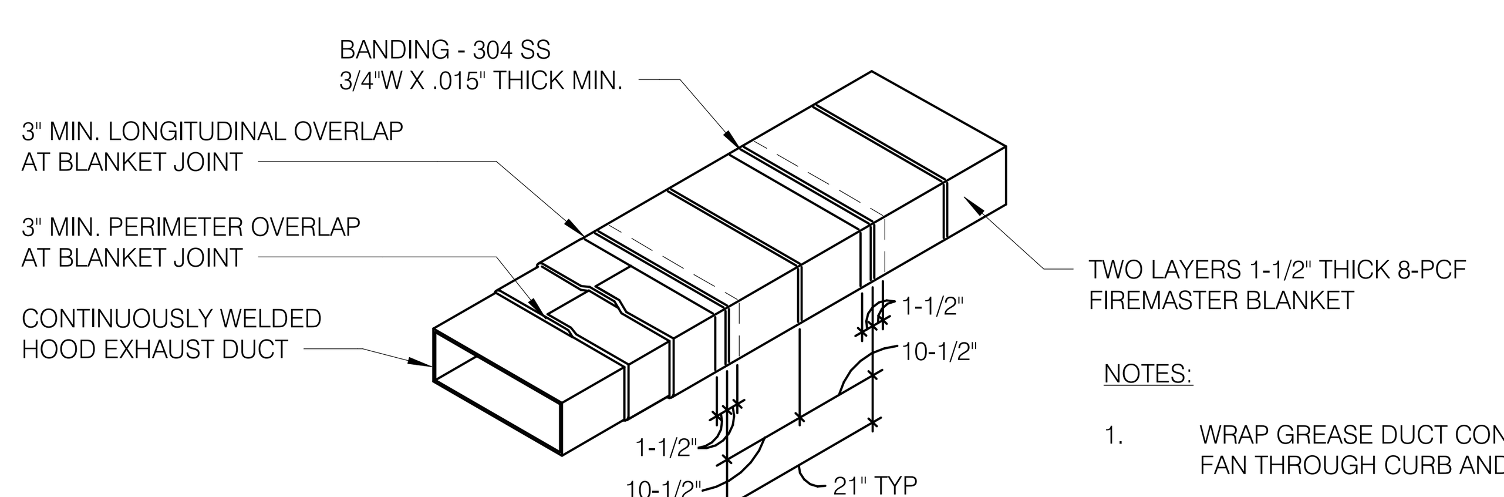
ROD ATTACHMENT NTS 7



BOLT CONNECTION TO HOOD NTS 5



RESTROOM FAN (EF-2) NTS 2

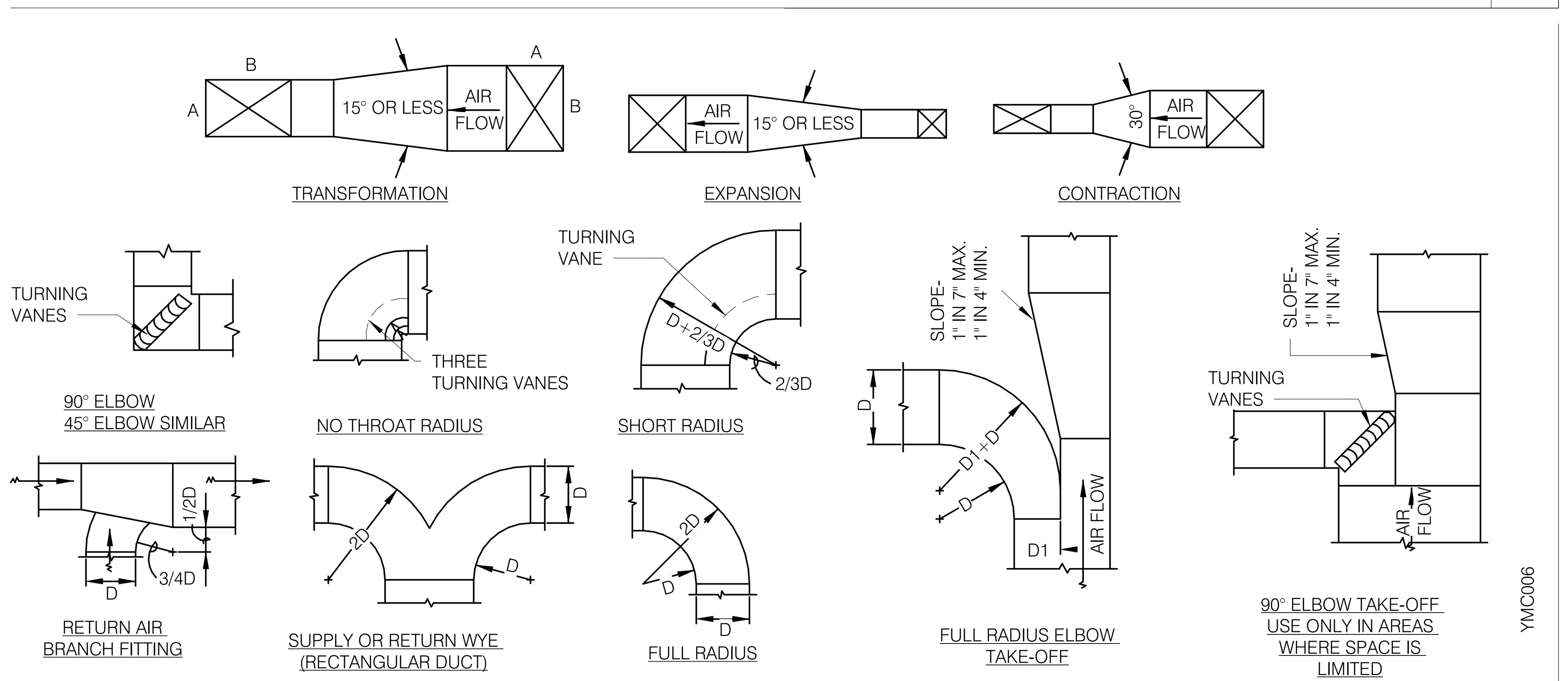


BANDING REQUIREMENTS: USE 304 STAINLESS STEEL BANDS A MAXIMUM 1-1/2" FROM BLANKET EDGE AND SPACED A MAXIMUM OF 10-1/2" ON CENTER.

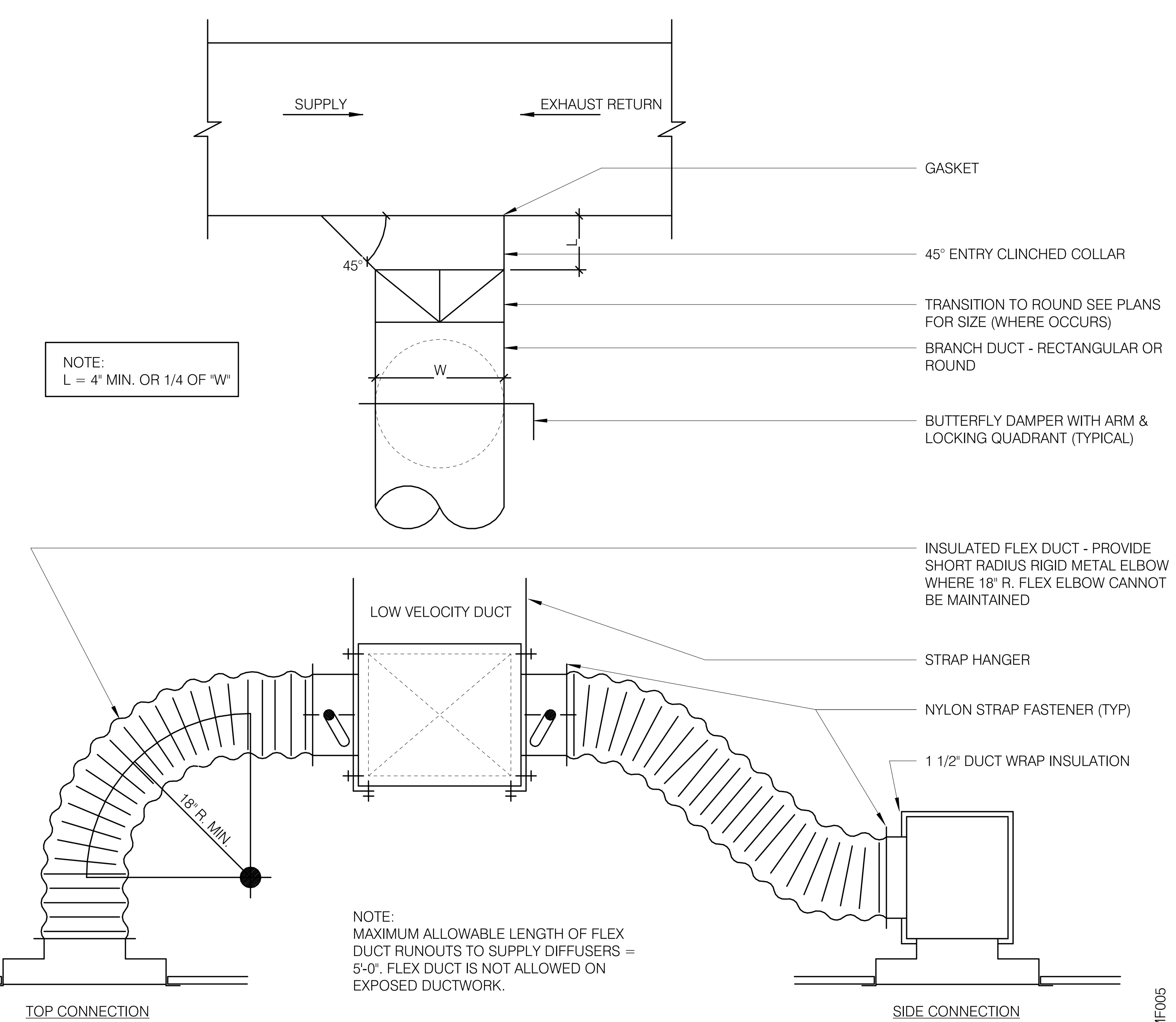
NOTES:

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

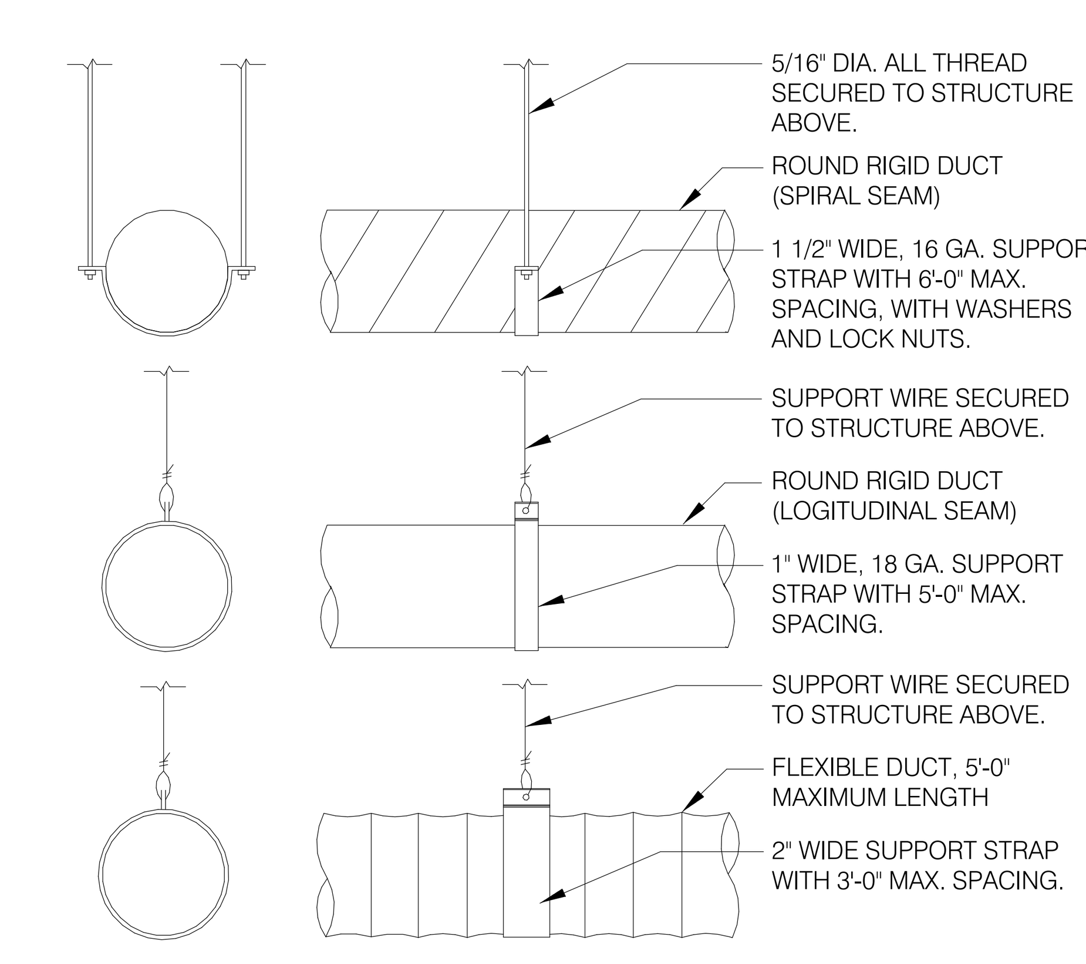
KITCHEN HOOD EXHAUST DUCT SYSTEM DETAIL NTS 10



TYPICAL DUCTWORK DETAILS NTS 9



CEILING DIFFUSER CONNECTIONS NTS 4



DUCT SUPPORT DETAIL NTS 1

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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PA/PM:	JW
DRAWN BY.:	AD
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
MECHANICAL DETAILS

M4.0

PLOT DATE: 5/3/2022 8:45:27 AM

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

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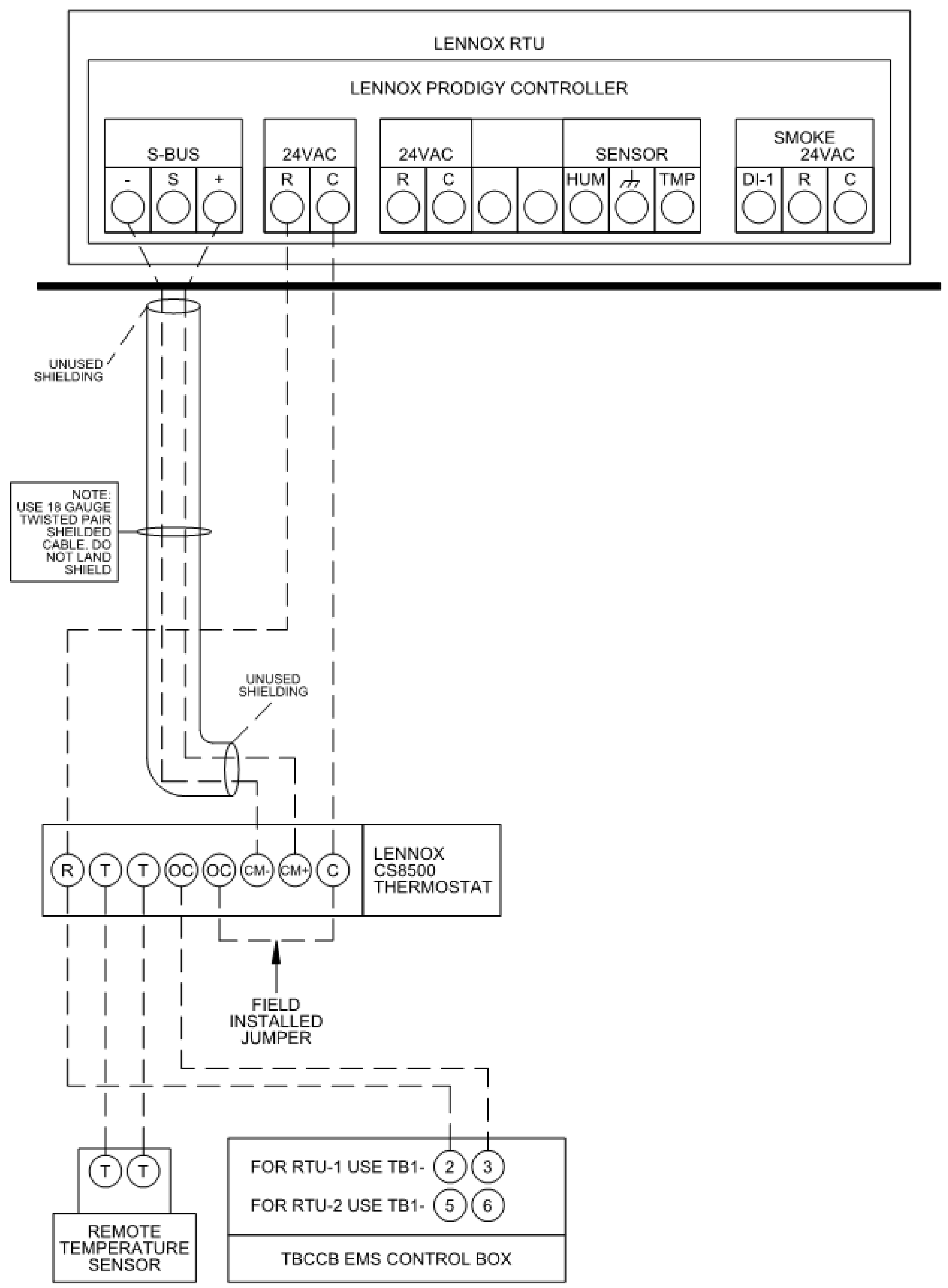
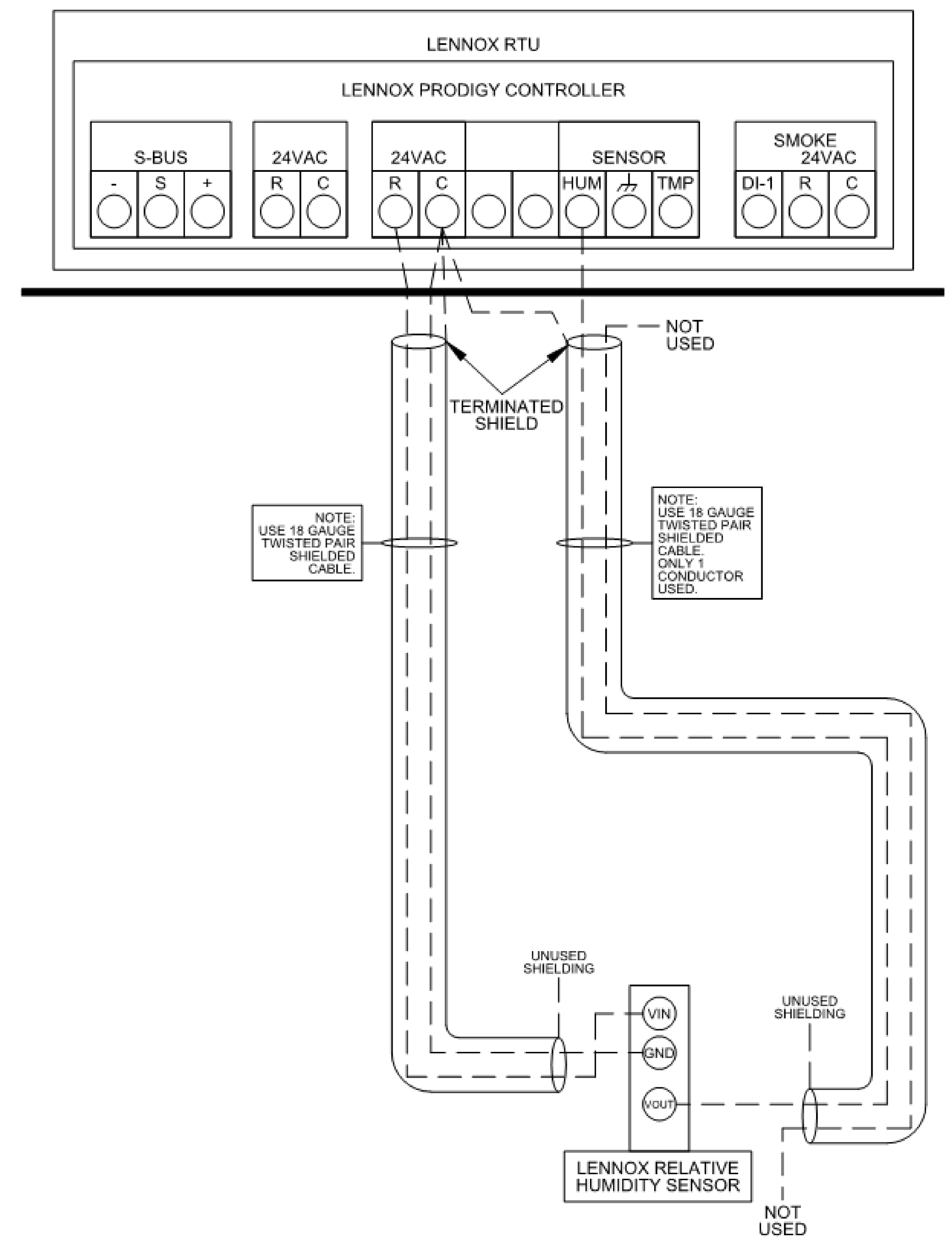
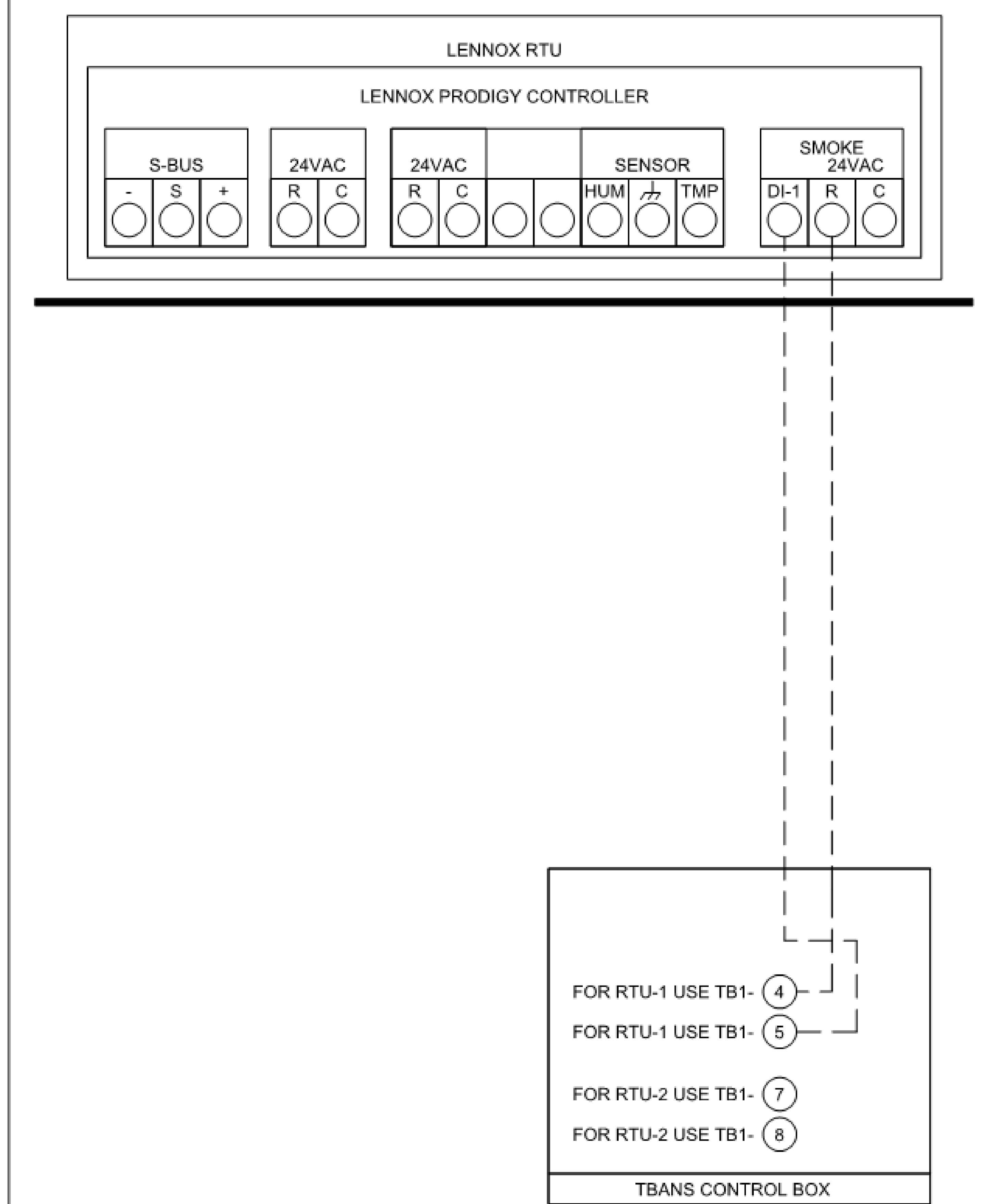


1 LENNOX PRODIGY TO THERMOSTAT AND TO TBCCB CONNECTION NTS



2 LENNOX PRODIGY TO OPTIONAL HUMIDITY SENSOR CONNECTION NTS



3 LENNOX PRODIGY TO TBANS CONNECTION NTS

Air Care Experts
26227 Enterprise Ct.
Lake Forest, CA 92630
949-770-2222

DRAWING TYPE

LENNOX RTU LOW VOLTAGE FIELD CONNECTIONS DETAIL

Model#

LENNOX LOW VOLTAGE CONNECTIONS

Rev | Date | Revisions | Change

Job #: T7647
Designed By: JL
Drawing By: EM
Approved By:
Date: 08-07-20
Sheet: 1 OF 1

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED40
PLAN VERSION:	MARCH 2020
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AD
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 1.0
CONTROLS DETAILS

M5.0

PLOT DATE: 5/3/2022 8:45:28 AM

GENERAL NOTES - PLUMBING NTS 4

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

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

3. VERIFY LOCATION OF SANITARY SEWER ON SITE PLAN AND REVISE SEWER SYSTEM AS REQUIRED.

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

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

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

7. PLUMBING FIXTURE VENTS SHALL TERMINATE MINIMUM OF 12 INCHES FROM VERTICAL SURFACES AND 10 FEET FROM OUTSIDE AIR INTAKES.

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

9. PROVIDE SHUT-OFF VALVES ON HOT & COLD WATER LINES TO FIXTURES AND APPLIANCES. ALL EXPOSED WATER AND WASTE LINES SHALL BE CHROME PLATED.

10. PROVIDE LEVER HANDLE GAS SHUT-OFF VALVE IN BRACH PIPING OF EACH APPLIANCE. INSTALL OWNER FURNISHED QUICK DISCONNECT, FLEXIBLE PIPE (IF ALLOWED BY CODE) AND RESTRAINING DEVICE. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLICANCE IF GAS PRESSURE IS GREATER THAN 10" WC DOWSTREAM OF THE GAS METER.

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

12. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN REQUIREMENTS. MAKE ALL ROUGH-IN AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT UNLESS OTHERWISE NOTED.

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

14. GAS LINES SHALL BE SUPPORTED.

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

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

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

18. VERIFY DEPTH, SIZE, LOCATION, AND CONDITION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK ON PROJECT. NOTIFY OWNER IMMEDIATELY OF CONDITIONS THAT EXIST WHICH WOULD CAUSE THE DESIGN TO BE ALTERED..

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

20. PROVIDE BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.

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

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

23. ALL WATER LINES SHALL BE RUN OVERHEAD UNLESS OTHERWISE NOTED.

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

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

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

PLUMBING LEGEND NTS 3

SYMBOLS	ABBREV.	DESCRIPTION
	Y.B.	YARD BOX
	R.D.	ROOF DRAIN
	A.P.	ACCESS PANEL
	V.T.R.	VENT THRU ROOF
	V.B.F.	VENT BELOW FLOOR
	U.T.R.	UP THRU ROOF
	V.C.P.	VITRIFIED CLAY PIPE
	C.I.	CAST IRON
	(TYP.)	TYPICAL
	(N)	NEW
	(E)	EXISTING
	F.D.	FLOOR DRAIN
	H.D.	HUB DRAIN
	O.F.D.	OVERFLOW DRAIN
	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
X 00		PLUMBING EQUIPMENT DESIGNATION
XXX		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DESCRIPTION.
SS	SS	SOIL OR WASTE (SANITARY)/WASTE STUB
GW	GW	SOIL OR WASTE (GREASE WASTE)/WASTE STUB
G	G	GAS / GAS STUB
CW	CW	COLD WATER/ CW STUB
HW	HW	HOT WATER / HW STUB
HWR	HWR	HOT WATER RETURN
	V	SANITARY VENT
SD	S.D.	STORM DRAIN
CD	C.D.	CONDENSATE DRAIN
	F.C.O.	FLOOR CLEANOUT
	W.C.O.	WALL CLEANOUT
FW	FW	FILTERED WATER
TW	TW	PREMIXED TEMPERATURE WATER
	H.B.	HOSE BIBB
	S.O.V.	SHUT-OFF GATE VALVE
	S.O.C.	SHUT-OFF GAS COCK
	C.V.	CHECK VALVE
	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
	B.V.	BALL VALVE
	C.W.	COLD WATER BELOW GRADE
	E.C.O.	EXTERIOR CLEAN OUT
	BFP	BACK FLOW PREVENTER
	FU	FIXTURE UNIT

PLUMBING FIXTURE COUNT NTS 2

FIXTURE	NO.	DRAIN		COLD WATER		HOT WATER	
		D.F.U.	TOTAL D.F.U.	F.U. C.W.	TOTAL C.W.	F.U. H.W.	TOTAL H.W.
WATER CLOSET	2	4	8	5	10	--	--
URINAL	0	5	--	5	--	--	--
LAVATORY	2	1	2	1.5	3	1.5	3
HAND SINK	2	2	4	1.5	3.0	1.5	3.0
PREP SINK *	1	--	--	2	2	2	2
3 - COMPARTMENT SINK *	1	--	--	3	3	3	3
HOSE BIBB/WATER FILTRATION UNIT	2/1	--	--	5/0.5	12	--	--
FLOOR DRAIN	7	2	14	--	--	--	--
HUB DRAIN	2	2	4	--	--	--	--
FLOOR SINK	4	3	12	--	--	--	--
MOP SINK	1	3	3	2.25	2.25	2.25	2.25
RETHERMALIZER *	1	--	--	--	--	1.0	1.0
TOTAL	--	--	47	--	35.25	--	14.25

PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS:

COLD WATER:	35.25 FU = 25.4 GPM	USE 1-1/2" CW SERVICE
DRAIN: GW	22 DFU	USE 4" SANITARY (MIN)
DRAIN: SAN	25 DFU	USE 4" SANITARY (MIN)
HOT WATER:	14.25 FU = 17.875 GPM	USE 1-1/4" HW SERVICE

BASED ON 2020 FPC (COMBINATION WASTE & VENT). *FIXTURE HAS INDIRECT WASTE TO FLOOR SINK

GREASE INTERCEPTOR SIZING CALCULATION
(11 GPM) x (30 MIN RETENTION TIME) = 330 GALLONS

NOTES:
1. PROPOSED GREASE INTERCEPTOR SIZE = 1,000 GALLONS.
2. CALCULATION DERIVED FROM SECTION 1003.3.7 IN THE 2020 FLORIDA PLUMBING CODE.
3. PER SECTION 709.3, ONE GPM IS EQUIVALENT TO TWO FIXTURE UNITS.

PLUMBING FIXTURE SCHEDULE NTS 1

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMP'D WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
ECO 1	EXTERIOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
FS 1	FLOOR SINK	4"	2"	--	--	--	6	--	PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLUSH WITH FLOOR TILE.	JOSAM / MODEL: JPFS4-PVC ZURN / MODEL: FD-2370-PV4-DS-F
FS 2	FLOOR SINK	3"	2"	--	--	--	6	--	CAST IRON 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP.	JOSAM / MODEL: 49034AS WADE / MODEL: 9144 ZURN / MODEL: Z-1900-32
FD 1	FLOOR DRAIN	3"	2"	--	--	--	2	--	PVC FLOOR DRAIN, 5" DIA. IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 PVC DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN.	ZURN / MODEL: FD-2210 JOSAM / MODEL: 30003-A WADE / MODEL:1103
HD 1	HUB DRAIN	3"	2"	--	--	--	2	--	CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED CLEANOUT PLUG.	JOSAM / MODEL: 88213 WADE / MODEL: 2453EF ZURN / MODEL: Z-1019
FCO 1	FLOOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
WCO 1	WALL CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	JOSAM / MODEL: 58510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446-BP
HB 1	HOSE BIBB	--	--	3/4"	--	--	--	2.5/1	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND NICKEL BRONZE BOX.	JOSAM / MODEL: 71000 WADE / MODEL: 8600L ZURN / MODEL: Z-1300
GREEN WC 1	WATER CLOSET	4"	2"	1/2"	--	--	4	2	WHITE VITREOUS CHINA FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.1 GPF, WITH OPEN FRONT SEAT LESS COVER, OLSONITE #95 OR EQUIVALENT. FLUSHOMETER TANK: SLOAN FLLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS.	AM. STD. "CADET" / MODEL: 2467.100 KOHLER "HIGHLINE" / MODEL: K-3519 CRANE "ECONMISER" / MODEL: 31888
GREEN L 1	LAVATORY	1-1/4"	1-1/2"	1/2"	--	1/2"	1	1.5	WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT, 4" CENTERS, WITH INTEGRAL BACKSPLASH, ADA ACCESSIBLE. FLAT GRID STRAINER. BRAIDED WATER LINES. FAUCET: FURNISHED BY OWNER-INSTALLED BY G.C. ELECTRONIC SENSOR TYPE FAUCET. SLOAN SF-2300, ADA COMPLIANT. SEE 5/P6.0 FOR LAV SUPPORT DETAIL, 0.5 GPM AERATOR	A.S. COMRADE/ MODEL: 0124.131 CRANE "HARWICH" / MODEL: 1412V
GREEN S 1	HAND SINK	1-1/2"	1-1/2"	1/2"	--	1/2"	2	1.5	S-1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS. FAUCET W/SINGLE KNEE PEDAL. BRAIDED WATER LINES, 0.5 GPM AERATOR.	-- -- --
S 2	MOP SINK	3"	2"	1/2"	1/2"	--	3	2.25	MOP SINK: AERO - 3MP-2121-6 W/ 48" HIGH S.S. LEFT SIDE AND BACK-SPLASH. FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. FAUCET: T&S #B2465, WITH VACUUM BREAKER, FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.	-- -- --
S 3	3-COMP. SINK	INDIRECT	--	1/2"	1/2"	--	--	3	SINK, FAUCET & DRAIN, GEN IV POWER SOAK STANDARD, GEN III IS AN OPTION FOR FRANCHISES	-- -- --
S 4	PREP SINK	INDIRECT	--	1/2"	1/2"	--	--	3	SINK, FAUCET AND DRAIN	-- -- --
GI 1	GREASE INTERCEPTOR	4"	--	--	--	--	--	--	PRECAST 1,000 GALLON GREASE INTERCEPTOR WITH SAMPLING BOX. SEE SITE PLAN FOR EXTERIOR GREASE INTERCEPTOR LOCATION.	JENSEN / JP1000G -- --
MV 1	MIXING VALVE	--	--	1/2"	1/2"	--	--	--	THERMOSTATIC, 125 P516, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.	POWERS SERIES LFLM495 LAWLER SERIES 310 LEONARD SERIES 170
WH 1	WATER HEATER	--	--	1-1/4"	1-1/4"	--	--	--	GAS FIRED WATER HEATER, 95% THERMAL EFF., 120,000 BTUH INPUT, 60 GAL. STORAGE TANK, 138 GPH @ 100 DEG. RISE REC. RATE, 3" PVC FLUE & INTAKE, ASME RATED TEMPERATURE AND PRESSURE RELIEF. VALVE, ELECTRONIC IGNITION SYSTEM AND ELECTRONIC CONTROLS. Call 800-477-1953 Option #1 for National Account Price & Service	AO SMITH / CYCLONE MXI BTH-120 STATE / SUF 100 120 NE --
ET 1	EXPANSION TANK	--	--	3/4"	--	--	--	--	EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON CAPACITY.	WATTS SERIES DETA AMTROL SERIES ST WILKINS SERIES WXTP
BFP 1	BACKFLOW PREVENTOR	--	--	VERIFY	--	--	--	1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION WITH QUARTER TURN FULL-PORT BALL VALVES AND BRONZE STRAINER.	WATTS / MODEL: LF009M2QTS WILKINS / MODEL: 975XLS FEBCO / MODEL: 860
RO 1	REVERSE OSMOSIS	INDIRECT	--	1/2"	--	--	--	--	REVERSE OSMOSIS FILTER SYSTEM BY OWNER. SEE DETAIL 9/P6.0	-- -- --
RP 1	RECIRC PUMP	--	--	--	1/2"	--	--	--	0.5 GPM @5 FEET HEAD. PROVIDE WITH CHECK VALVE, BALANCE VALVE, AND AQUASTAT.	TACO 009 --

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AD
JOB NO.:	2021088.17

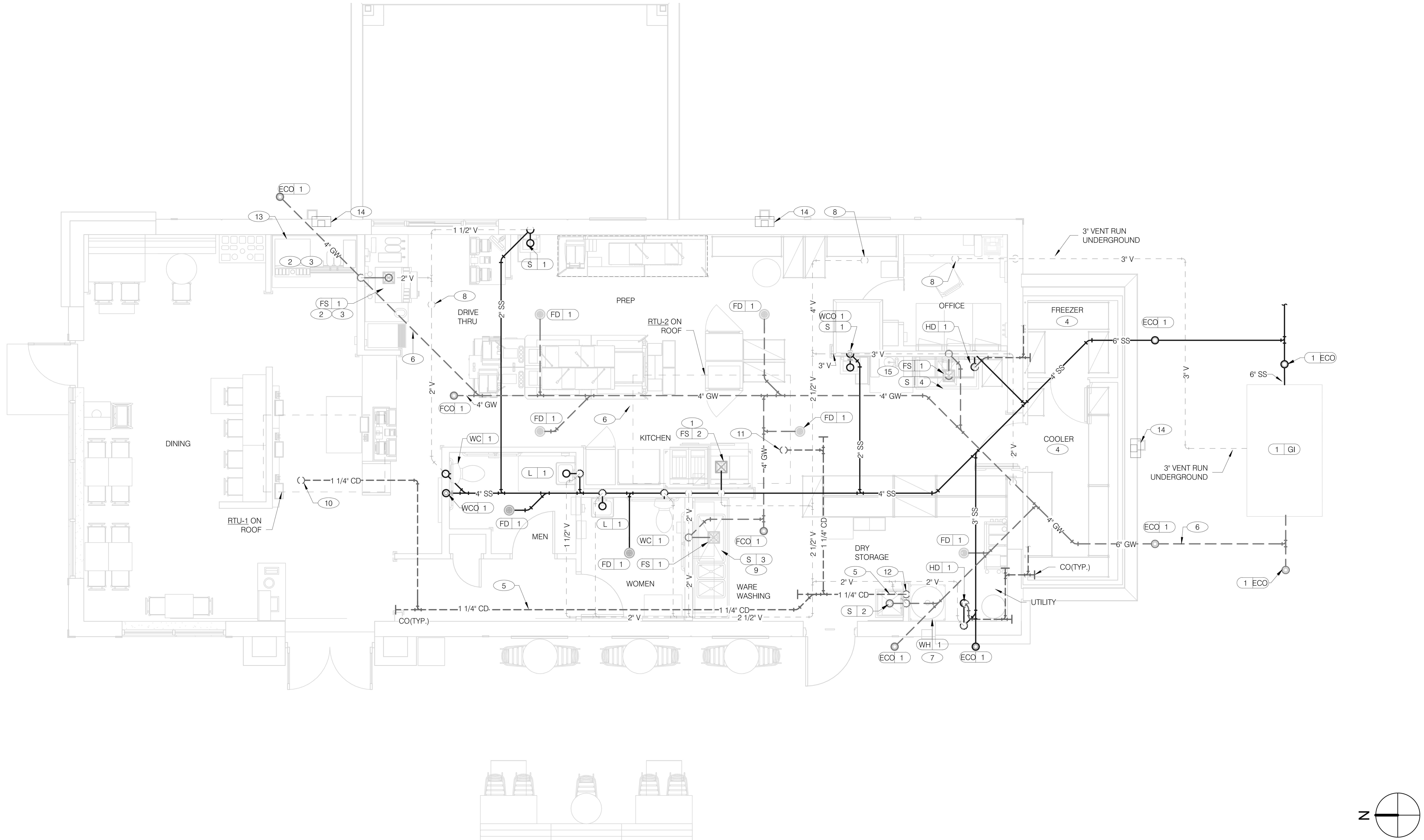
TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

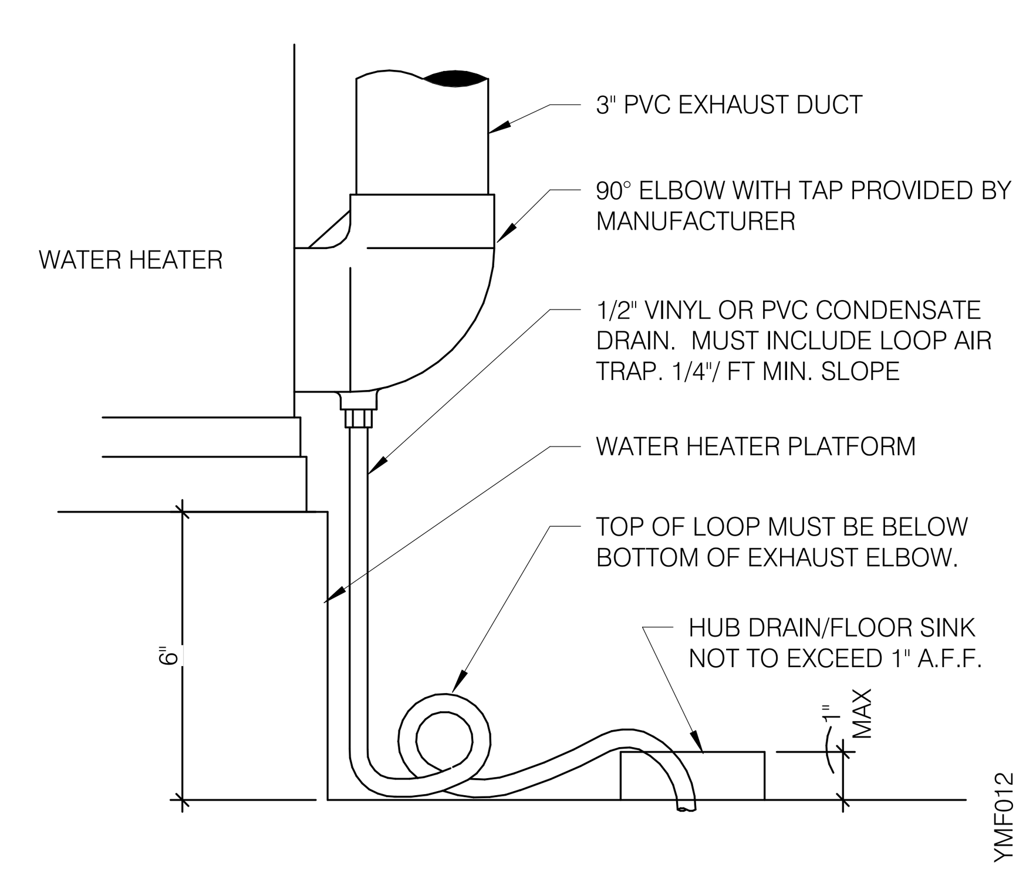
ENDEAVOR 2.0
PLUMBING SCHEDULES AND NOTES

P1.0

PLOT DATE: 5/3/2022 8:45:32 AM



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 DEDICATED CONDENSATE LINE AND DRAIN LINE FROM ICE MACHINE TO THE FS UNDERNEATH THE DRIVE THRU SODA MACHINE. PROVIDE AIR GAP PER LOCAL CODE.
3. PROVIDE DEDICATED WASTE LINES FROM BEVERAGE UNIT TO THE FS UNDERNEATH THE DRIVE THRU SODA MACHINE. PROVIDE AIR GAP PER LOCAL CODE.
4. PROVIDE 3/4" COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO OUTFALL AT HUB DRAIN/MOP SINK (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE). CONCEAL CONDENSATE PIPE IN WALL.
5. PVC OR COPPER CONDENSATE DRAIN FROM HVAC UNITS ON ROOF. RUN TO MOP SINK. PIPING SHALL SLOPE 1/4" PER FOOT AND SHALL BE INSULATED WITH 1" CLOSED CELLULAR INSULATION. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR PIPE SIZES.
6. ENTIRE RUN OF DRAIN LINES TO INLET OF EXTERIOR GREASE INTERCEPTOR AND OUTBOUND FROM INTERCEPTOR TO CONNECTION AT SANITARY MAIN SHALL BE SCHEDULE 40 PVC DWV OR AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
7. ROUTE INDIRECT WASTE FROM WH-1 TO HD-1. REFERENCE DETAIL 2/P6.1 AND DETAIL 4/P2.0.
8. 4" VENT UP THROUGH ROOF.
9. PIPE 3-COMPARTMENT SINK TO FLOOR SINK WITH AIR GAP PER CODE.
10. 1-1/4" CONDENSATE DRAIN DOWN FROM RTU-1. SEE DETAIL 10/P6.0.
11. 1-1/4" CONDENSATE DRAIN DOWN FROM RTU-2. SEE DETAIL 10/P6.0.
12. CONDENSATE DRAIN PIPE DOWN TO MOP SINK. PROVIDE AIR GAP AS REQUIRED BY CODE. IF REQUIRED RUN CONDENSATE PIPING TO EXTERIOR DRYWELL, RETENTION AREA OR STORM SEWER AS DIRECTED BY AUTHORITY HAVING JURISDICTION.
13. RUN DRAIN LINE FROM S/S DRINK MACHINE THROUGH WALL OPENING. TO OUTFALL AT FS BENEATH D/T DRINK MACHINE.
14. DOWN SPOUT. SEE CIVIL PLANS FOR CONTINUATION.
15. ROUTE DRAIN FOR REVERSE OSMOSIS DISCHARGE TO FLOOR SINK. ENSURE PROPER AIR GAP.

KEYNOTES - WASTE AND VENT NTS 2

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DRAWN BY.:	AD
JOB NO.:	2021088.17

TACO BELL

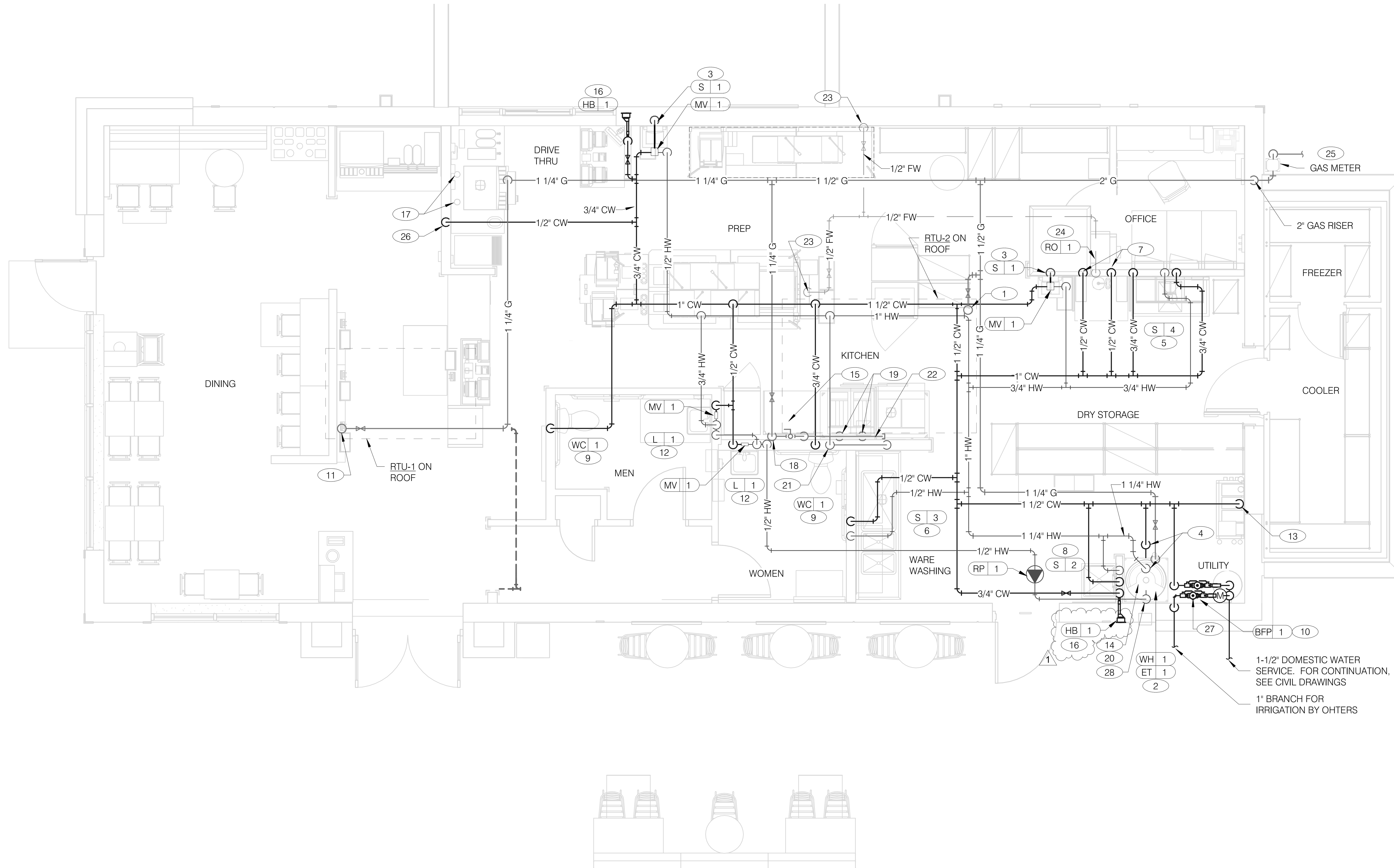
5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
WASTE AND VENT PLAN

P2.0

PLOT DATE: 5/3/2022 8:45:39 AM

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



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

WATER & GAS PLAN NOTES NTS 3

A. NO ROOF PENETRATIONS PERMITTED WITHIN ROOF "WATER VALLEYS". REFER TO ROOF PLAN FOR LOCATIONS.

B. REFER TO SHEET P4.0 FOR ROUGH-IN LOCATIONS.

C. REFER TO SHEET P5.0 FOR WATER AND GAS ISOMETRIC DRAWINGS.

D. FLUSH ALL WATER SUPPLY LINES OF ALL DEBRIS AND IMPURITIES PRIOR TO CONNECTING TO WATER FILTERS.

E. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER TO SERVE CARBONATOR. DRAIN RELIEF TO FLOOR SINK WITH AIR GAP

KEYNOTES - WATER AND GAS NTS 2

1. 1-1/4" (180 CFH) GAS UP TO RTU-2 WITH DIRT LEG, GAS COCK AND UNION.
2. 1-1/4" (120 CFH) GAS DOWN TO WATER HEATER WITH GAS COCK, DIRT LEG AND UNION.
3. 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK.
4. 1-1/4" HOT AND 1-1/4" COLD WATER LINES DOWN TO WATER HEATER.
5. 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
6. 1/2" COLD AND HOT WATER LINES DOWN IN WALL TO THREE COMP. SINK.
7. 1/2" COLD WATER 2'-0" A.F.F. . CONNECT TO WATER FILTER FOR HOT WATER SYSTEM P-452. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO WATER FILTER.
8. 1/2" COLD AND HOT WATER DOWN IN WALL TO MOP SINK.
9. 3/4" CW DOWN IN WALL TO FLUSH TANK WATER CLOSET .
10. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER. WATER METER LOCATED OUTSIDE. REFER TO CIVIL PLANS FOR CONTINUATION AND FURTHER INFORMATION.
11. 1-1/4" (180 CFH) GAS UP TO RTU-1 WITH DIRT LEG, GAS COCK AND UNION.
12. 1/2" TEMPERED WATER LINES DOWN IN WALL TO LAVATORY.
13. 3/4" CW DOWN ALONG WALL TO WATER FILTER S-540.
14. WATER HEATER (WH-1). PIPE CONDENSATE LINE. T&P DISCHARGE AND DRAIN PAN TO HUB DRAIN. SEE WATER HEATER DETAIL 2/P6.1.
15. EMERGENCY GAS SHUT OFF VALVE LOCATED BELOW CEILING.
16. 3/4" CW DOWN IN WALL TO EXTERIOR HOSE BIBB.
17. BUNDLED SYRUP LINES TO BEVERAGE DISPENSERS S-284 & S-285 AND FILTERED WATER LINES TO ICE MAKERS S-513 AND FROZEN BEVERAGE DISPENSER S-546. SEE DRAWINGS A2.0 AND P5.0.
18. 1-1/4" GAS DOWN ALONG WALL TO COOKING EQUIPMENT. VERTICAL GAS PIPING IN WALL SHALL NOT BE RIGIDLY SECURED AND ADEQUATE PIPE PROTECTION SHALL BE PROVIDED.
19. 3/4" GAS DIRT LEG W/ GAS COCK TO COOKING EQUIPMENT. PROVIDE FLEXIBLE GAS HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT.
20. 3" PVC EXHAUST AND INTAKE FLUES FROM WATER HEATER, PIPE THROUGH ROOF AS RECOMMENDED BY MANUFACTURER TO LOCATIONS SHOWN ON SHEET M2.0. SEE DETAIL 1/P6.1.
21. 1/2" HOT WATER DOWN IN WALL TO RETHERMALIZER C-107. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
22. RUN GAS PIPE 18" A.F.F. WITH DIRT LEGS FOR GAS HOSE KITS TO COOKING EQUIPMENT C-026 AND C-107.
23. 1/2" RO WATER PIPE DOWN IN WALL AND ROUTED IN LOW WALL OF DRY PRODUCTION LINE. PROVIDE SHUT-OFF VALVE ON RO PIPING IN CEILING NEAR CHASE.
24. 1/2" COLD WATER TO REVERSE OSMOSIS FILTER P-315 AND 1/2" FILTER WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF VALVE ON CW PIPE PRIOR TOCONNECTION TO FILTER. SEE DETAIL 9/P6.0.
25. GAS METER, REGULATOR VALVES, BRACKETS, ETC. AS REQUIRED BY LOCAL GAS COMPANY. SEE CIVIL DRAWINGS FOR CONTINUATION.
26. 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO WATER FILTER.
27. 1" DEDUCT METER FOR IRRIGATION SYSTEM.
28. 1/2" HOT WATER RETURN DOWN TO WATER HEATER HOT WATER RETURN INLET.

GPD GROUP, INC.
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	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AD
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
WATER AND GAS PLAN

P3.0

PLOT DATE: 5/3/2022 8:45:47 AM

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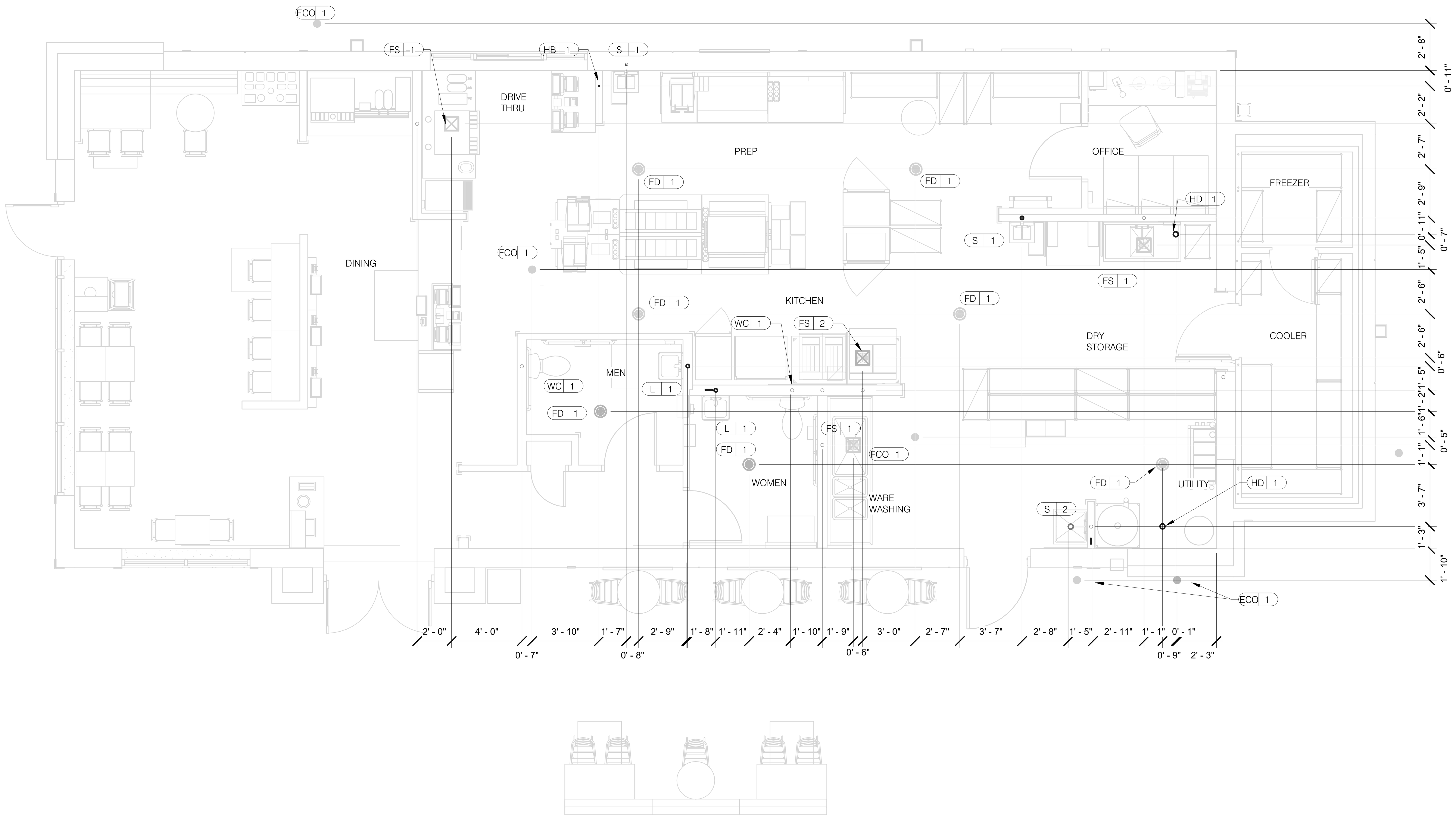

PLUMBING ROUGH-IN PLAN 1/4" = 1'-0" 1

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
FS 1	FLOOR SINK			--
FS 2	FLOOR SINK			EPOXY COATED CAST IRON
HD 1	HUB DRAIN			--
WH 1	WATER HEATER	CW		--
WH 1	WATER HEATER	G	+15" A.F.F.	--
WC 1	WATER CLOSET	CW	+29" A.F.F	BOTH HANDICAP AND REGULAR
UR 1	URINAL FLUSH VALVE	CW	+47" A.F.F.	WALL MOUNTED
UR 1	URINAL WASTE STUB	W	+16-1/2" A.F.F.	WALL MOUNTED
L 1	LAVATORY	TW	+20" A.F.F.	--
L 1	LAVATORY WASTE LINE	W	+16-1/2" A.F.F.	--
RO 1	REVERSE OSMOSIS	CW	+84" A.F.F	--
S 1	HAND SINK	TW	+18" A.F.F	RIM OF LAV @ +2'-8" A.F.F.
S 2	MOP SINK	W	-6" A.F.F.	RECESSED IN FLOOR
S 2	MOP SINK FAUCET	CW/HW	+36" A.F.F	--
S 2	MOP SINK FAUCET	CW/HW	+42" A.F.F	CLOSET MOP SINK ONLY
S 3	3-COMPARTMENT SINK	W	+19" A.F.F	--

EQUIP #	EQUIPMENT ITEM	TYPE	ELEVATION	REMARKS
S 3	3-COMPARTMENT SINK FAUCET	CW/HW	+38" A.F.F	--
S 4	PREP SINK	W	+19" A.F.F	--
S 4	PREP SINK FAUCET	CW/HW	+38" A.F.F	--
WCO 1	WALL CLEAN OUT			--
FCO 1	FLOOR CLEAN OUT			--
HB 1	HOSE BIB			--
C-107	RETHERMALIZER	HW	+8" A.F.F.	
C-107	RETHERMALIZER	G	+12" A.F.F.	
C-026	DUAL VAT FRYER	G	+12" A.F.F.	
S-286	WATER FILTER SYSTEM	CW	+94" A.F.F.	INLET TO & OUTLET FROM FILTER
P-452	HOT WATER SYSTEM	CW	+24" A.F.F.	

PLUMBING ROUGH-IN SCHEDULE NTS 3

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

PLUMBING ROUGH-IN NOTES NTS 2

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TACO BELL

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ENDEAVOR 2.0
PLUMBING ROUGH-IN PLAN

P4.0

PLOT DATE: 5/3/2022 8:45:53 AM

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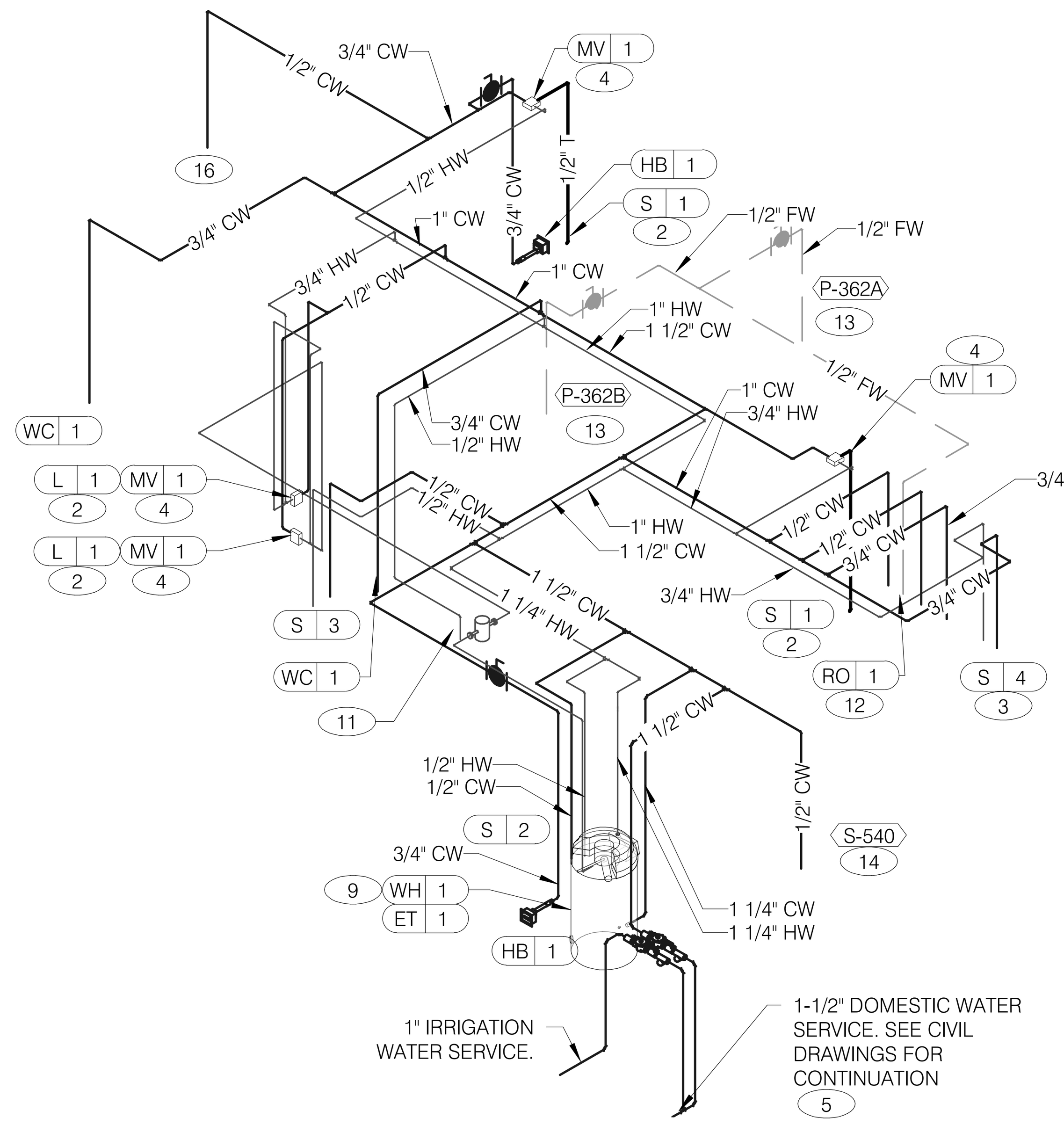
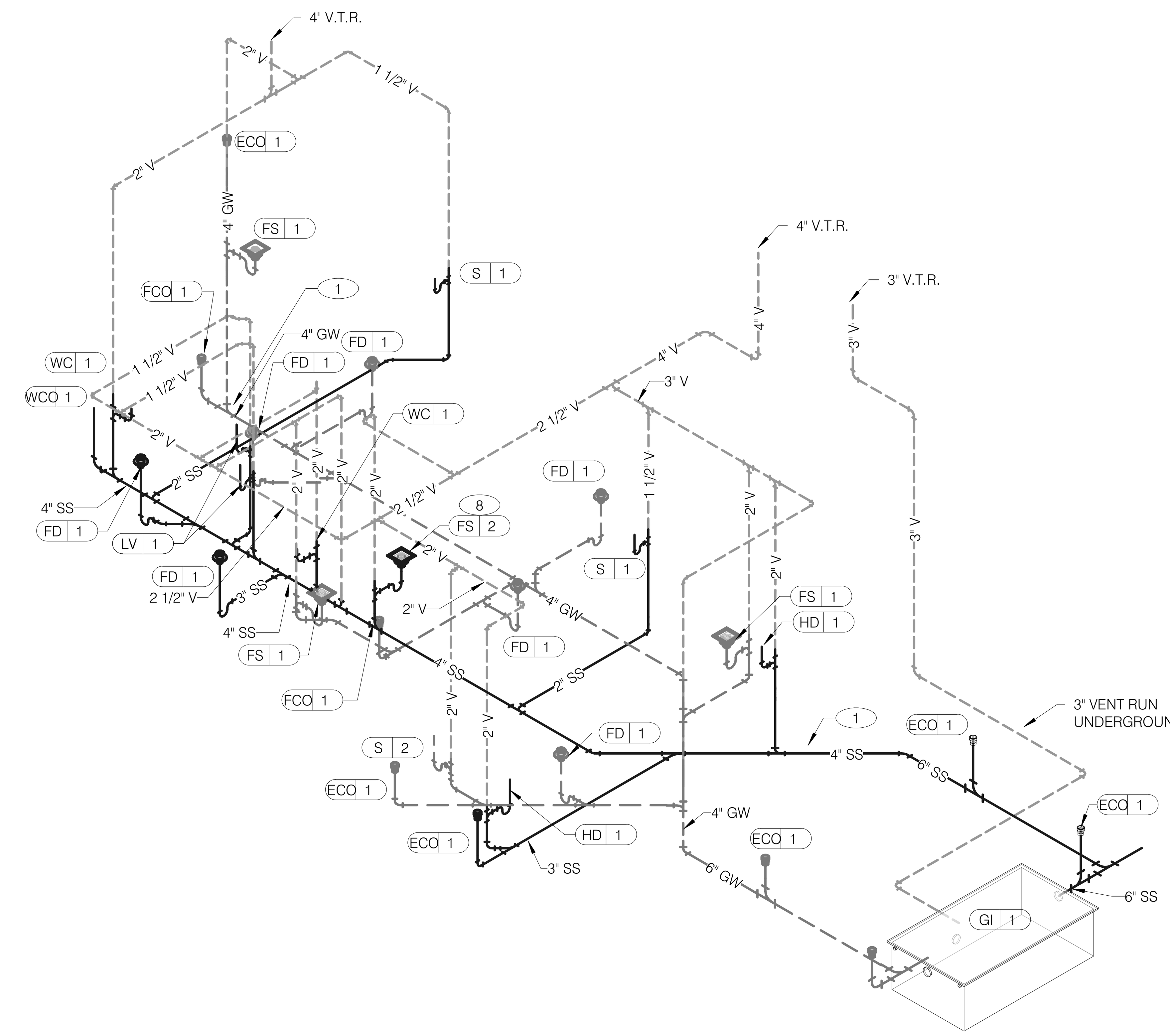


WATER ISOMETRIC NTS 4

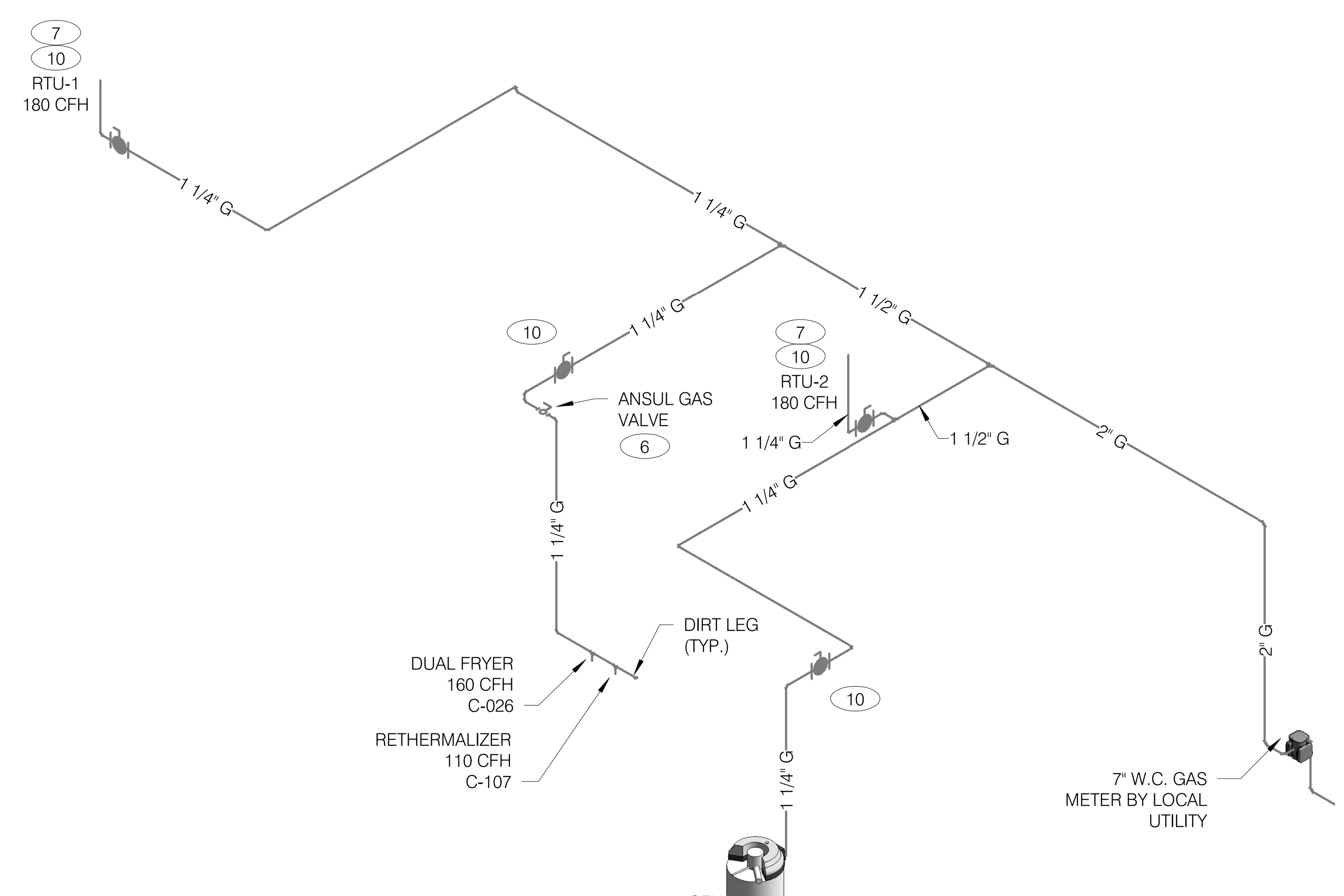


WASTE AND VENT ISOMETRIC NTS 1

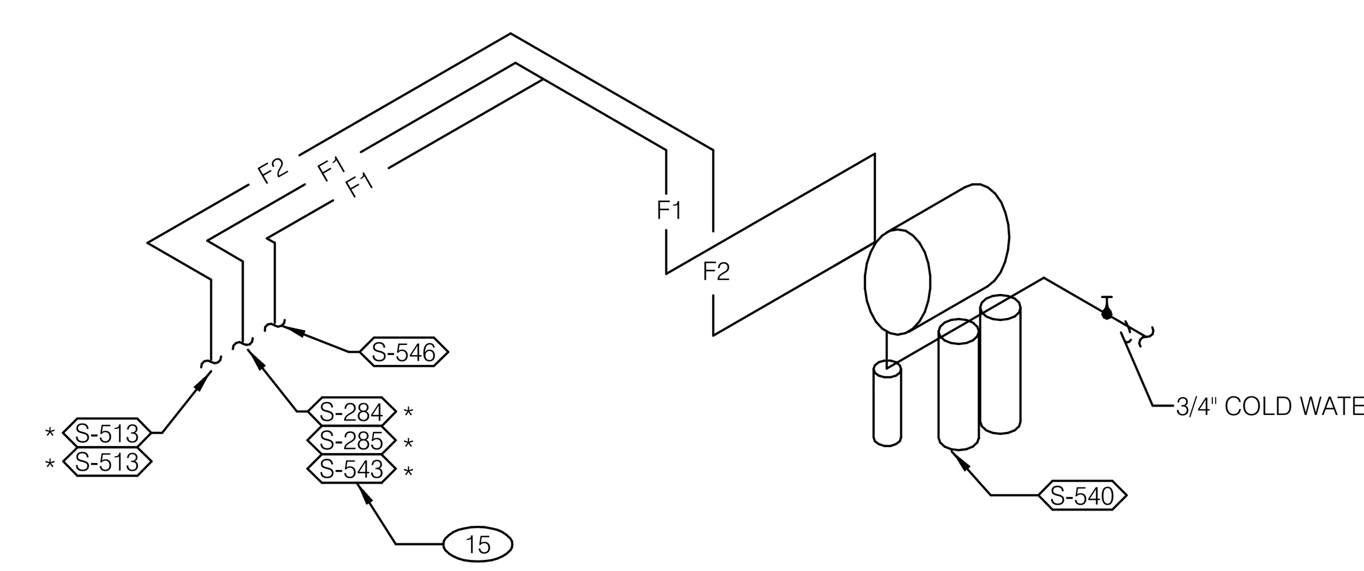
GAS DEMAND SCHEDULE	
RTU-1	180 CFH
RTU-2	180 CFH
WH-1	120 CFH
DUAL FRYER	160 CFH
RETHERMALIZER	110 CFH
TOTAL DEMAND	750 CFH = 750,000 BTUH

NOTE:
COORDINATE GAS DEMAND REQUIREMENTS WITH SITE-SPECIFIC RTU DESIGN.

PIPE SIZE BASED ON 120' OF PIPE, 7" W.C. OPERATING PRESSURE, AND 0.3" PRESSURE DROP.



GAS ISOMETRIC NTS 5



FILTERED EQUIPMENT AND LINES:

S-540 - WATER FILTER

FILTERED LINE (COLD WATER)

S-513 - ICE MAKER - ABOVE SELF-SERVE BEVERAGE DISPENSER *
S-513 - ICE MAKER - ABOVE DRIVE-THRU BEVERAGE DISPENSER *
S-285 - DRIVE-THRU BEVERAGE DISPENSER *
S-284 - SELF-SERVE BEVERAGE DISPENSER *
S-546 - ICED TEA BREWER
S-543 - FROZEN BEVERAGE DISPENSER

* FILTERED WATER SUPPLIED VIA SYRUP BUNDLE. REFER TO 11/P6.0. SEE SCOPE OF WORK FOR RESPONSIBILITIES.

FILTERED WATER ISOMETRIC NTS 2

1. ENTIRE RUN OF DRAIN LINES ON INLET TO GREASE TRAP SHALL BE SCHEDULE 40 PVC OR NO HUB CAST IRON AS REQUIRED BY CODE.
2. 1/2" TEMPERED WATER DOWN IN WALL TO HAND SINK / LAVATORY.
3. 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO PREP SINK.
4. THERMOSTATIC MIXING VALVE.
5. REDUCED PRESSURE BACKFLOW PREVENTER PER LOCAL UTILITY REQUIREMENTS. PROVIDE SHUT-OFF VALVES AT BOTH SIDES OF BACKFLOW PREVENTER. METER LOCATED OUTSIDE. VERIFY LOCATIONS WITH CIVIL DRAWINGS.
6. EMERGENCY GAS SHUT-OFF VALVE (NORMALLY CLOSED) SHALL BE ELECTRIC SOLENOID TYPE WITH SPRING RETURN AND 24 VOLT ACTUATOR, SUITABLE FOR USE ON GAS PIPING SYSTEMS. VALVE SHALL BE ACTIVATED BY ANY OF THE EXHAUST HOOD FIRE SUPPRESSION SYSTEM. PROVIDE RELAYS AS REQUIRED TO ACTIVATE SHUT-OFF VALVE.
7. GAS PIPING AT ROOF TOP UNIT FOR THROUGH THE BASE PIPE CONNECTION. SHUT-OFF VALVE SHALL BE LOCATED OUTSIDE OF THE UNIT.
8. PROVIDE NO HUB CAST IRON PIPE FOR FIRST 10 FEET OF PIPE FROM CONNECTION TO FLOOR SINK FS-2
9. PIPE T&P RELIEF VALVE TO OUTSIDE OF BUILDING OR TO HUB DRAIN. RUN FULL SIZE PIPE FROM VALVE WITH TYPE "K" COPPER TUBING.
10. PROVIDE GAS SHUT-OFF VALVE IN CEILING SPACE.
11. 1/2" HOT WATER PIPE DOWN IN WALL. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.
12. 1/2" COLD WATER CONNECT TO REVERSE OSMOSIS FILTER AND 1/2" FILTERED WATER FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF ON CW PIPE PRIOR TO CONNECTION TO FILTER.
13. 1/2" RO WATER FROM REVERSE OSMOSIS FILTER DOWN IN UTILITY CHASE OF M.A.P.S. LINE. PROVIDE SHUT-OFF VALVE ON FW PIPE IN CEILING NEAR UTILITY CHASE.
14. 1/2" COLD WATER TO HOT WATER SYSTEM FILTER.
15. TEE OFF 3/8" LINE FROM DRIVE THRU BEVERAGE DISPENSER FILTERED WATER SUPPLY. SEE DETAIL 8/P6.0.
16. 1/2" COLD WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER S-547. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.

KEYNOTES - ISOMETRICS NTS 3

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JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0

RISER DIAGRAMS

P5.0

PLOT DATE: 5/3/2022 8:46:03 AM

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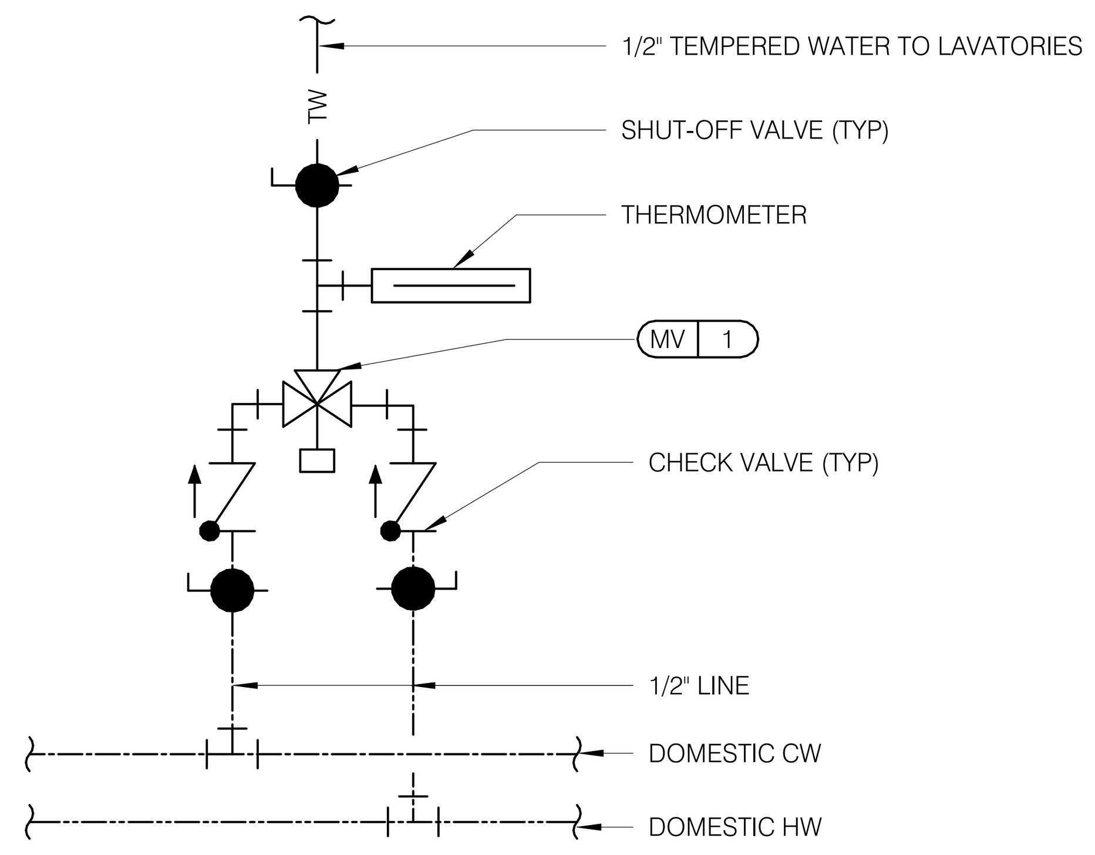
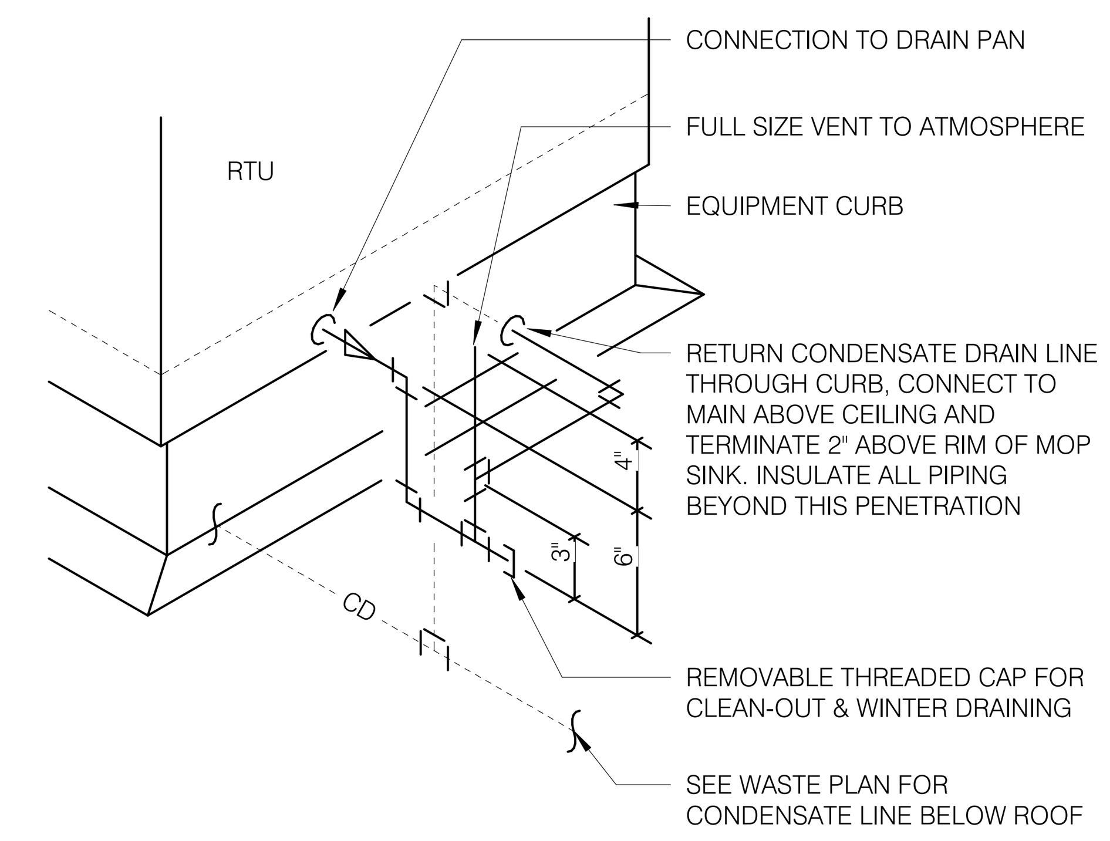
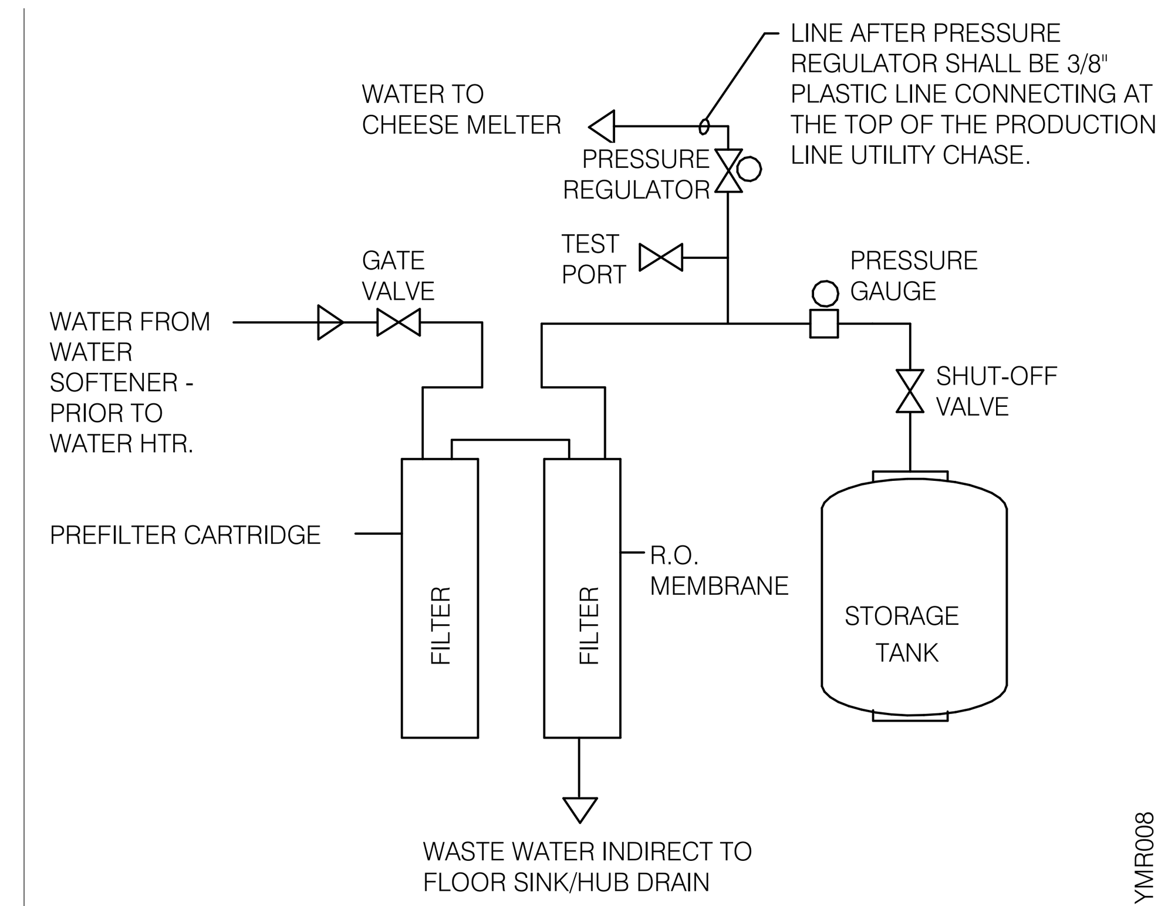


TEMPERING VALVE NTS 11

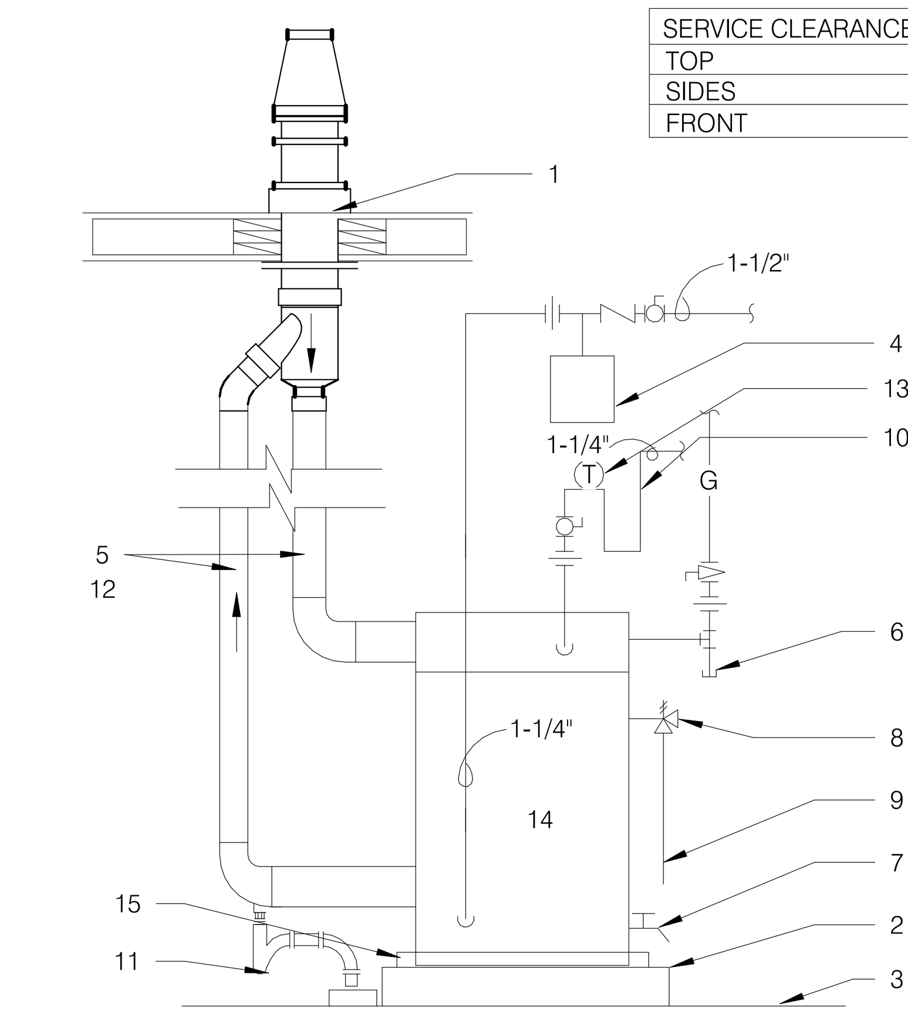


RTU CONDENSATE NTS 10



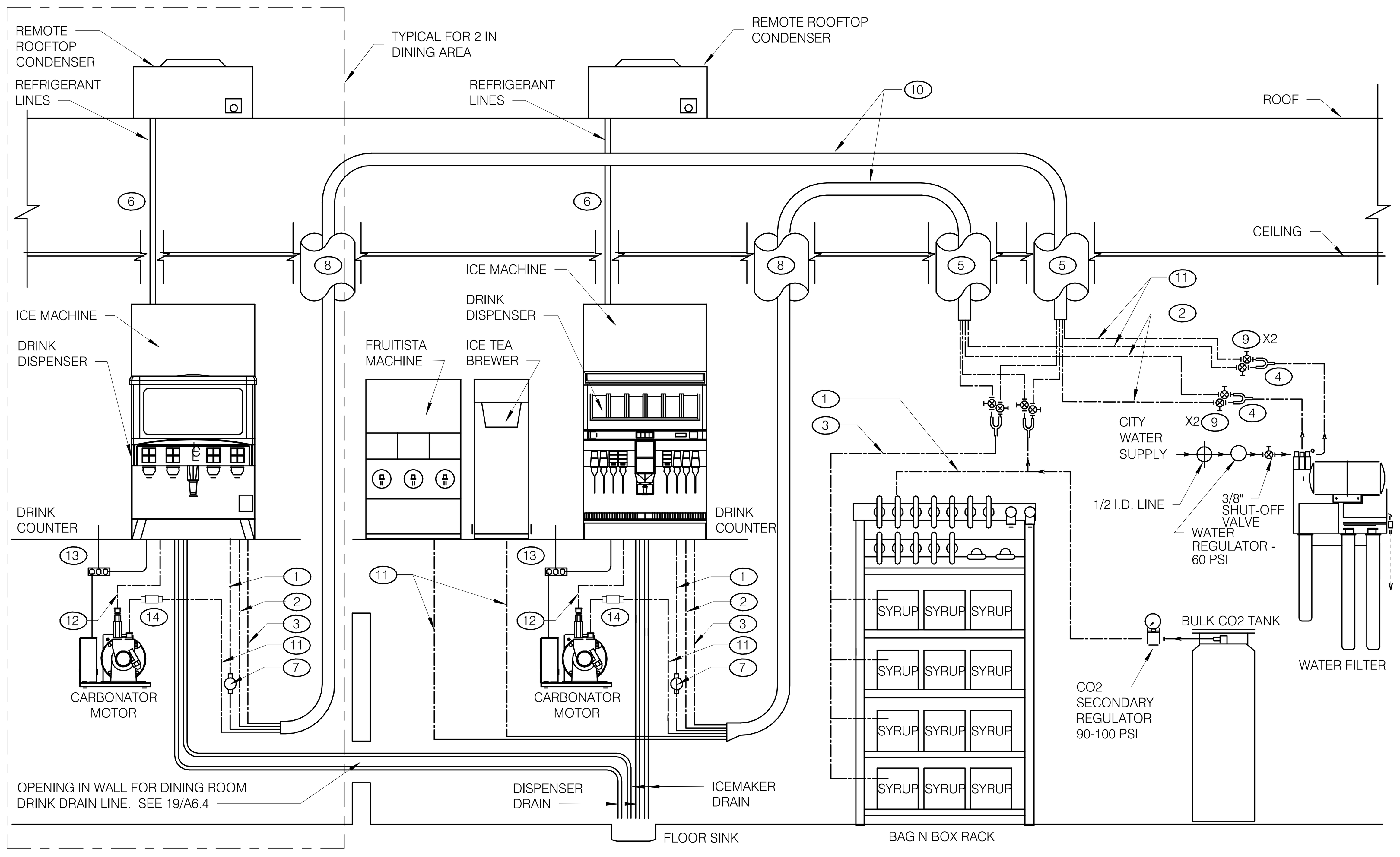
REVERSE OSMOSIS SYSTEM NTS 9

SERVICE CLEARANCES	
TOP	18"
SIDES	4"
FRONT	24"



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

WATER HEATER NTS 2



GENERAL NOTES:

1. OVERALL FILTER DIMENSIONS: 21" WIDE x 12" DEEP x 48 1/2" HIGH
2. SEE DETAIL SCOPE OF WORK FOR SCOPE DEFINITIONS.
3. ROUGH-INS SHALL BE PROVIDED BY CONTRACTOR.
4. INSTALLATION SHALL COMPLY WITH STATE AND LOCAL PLUMBING CODES.
5. FILTER SHALL BE PROTECTED AGAINST FREEZING.
6. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
7. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
8. SEE EQUIPMENT PLAN FOR LOCATION.
9. SEE DETAIL 3 THIS SHEET FOR BUNDLE DETAILS
10. "Y" FOR ICE MACHINES SUPPLY LINES SHALL BE INSTALLED @ FILTER OUTLET.
11. BACKFLOW PREVENTERS FOR FILTER ASSEMBLY ARE PROVIDED.
12. PROVIDE WATTS SD-3 BACKFLOW PREVENTER WITH STRAINER UPSTREAM OF THE SODA CARBONATOR. SEE NOTE 14 BELOW.

THERE ARE TWO SELF-SERVE DRINK/ICE SYSTEMS WHICH SHARE A COMMON FLOOR SINK WITH THE D/T DRINK/ICE SYSTEM.

INSTALL ELECTRICAL, WATER, AND DRAIN IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL CODES.

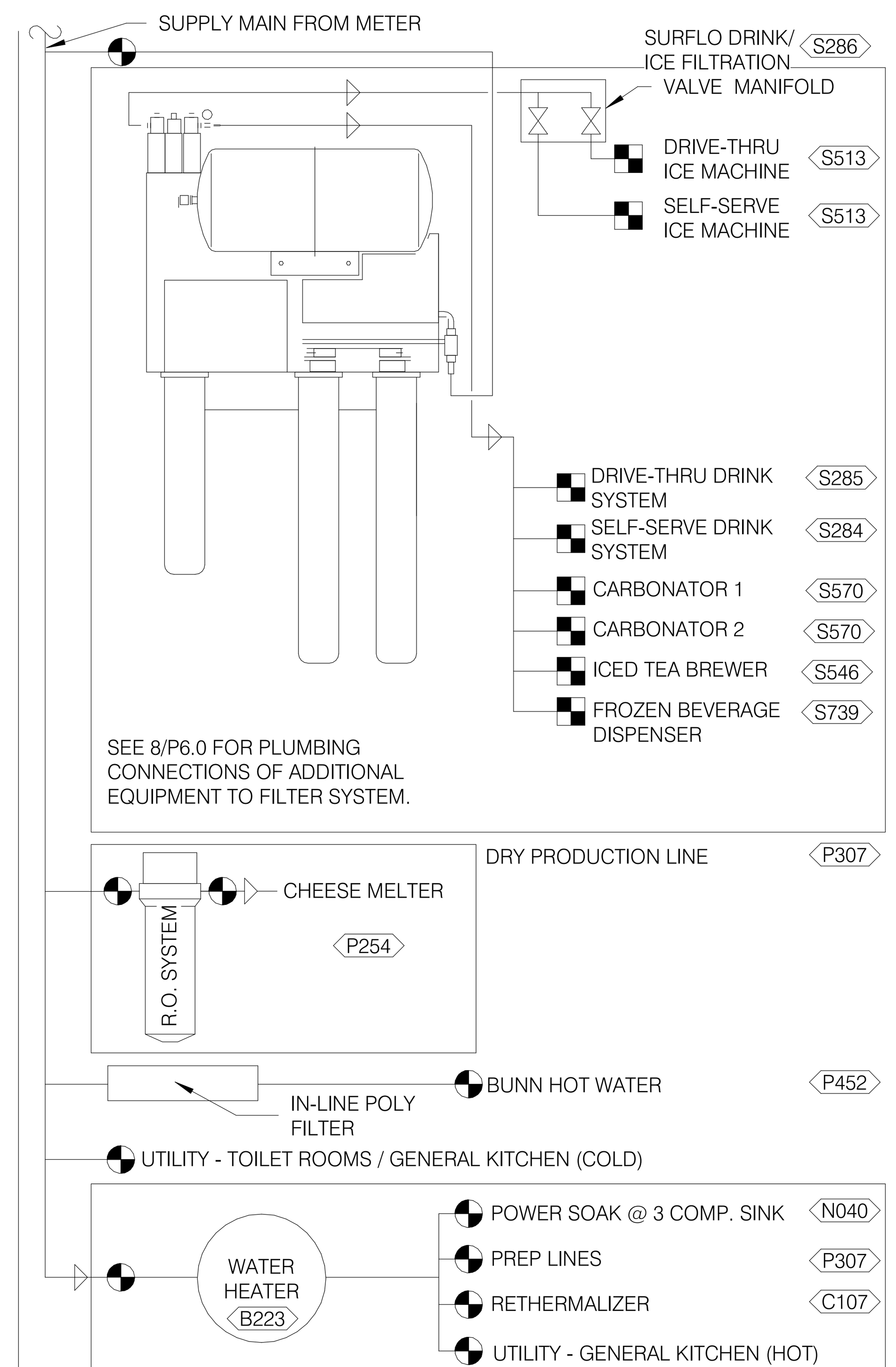
EQUIPMENT RATING:
ED250 DISPENSER - 115V, 3.5 AMPS
ED300 DISPENSER - 115V, 4.0 AMPS
CARBONATOR - 115V, 60 Hz, 7.0 AMPS
BOOSTER ASSEMBLY - 115V, 60 Hz, 6.5 AMPS

KEY NOTES:

1. 3/8" CO_2 LINE
2. 3/8" FILTERED WATER LINE - ICE MACHINES
3. 3/8" SYRUP LINES
4. 1/2 X 3/8 X 3/8 "Y"
5. BUNDLED TUBING CEILING PENETRATION.
6. STAINLESS CHASE SURFACE MOUNTED FROM CEILING TO TOP OF ICE MACHINE
7. PRE-SET CO_2 REGULATOR
8. RECESSED 4" DIA. PVC VERTICAL CHASE FOR DRINK SYSTEM BUNDLED TUBING SYSTEM.
9. 3/8" SHUT OFF VALVES BARB FITTINGS
10. DRINK SYSTEM BUNDLED TUBING. SEE DETAIL 6/P6.0
11. 3/8" FILTERED WATERLINE - ICE TEA, FRUITISTA & DRINK MACHINES
12. 3/8" LINE FOR PRESSURIZE FILTERED WATER
13. ELECTRICAL FOR DRINK SYSTEM. SEE SHEET E3.0
14. CARBONATED BEVERAGE BACKFLOW PREVENTER

TPS030

DRINK SYSTEM SCHEMATIC NTS 8



LEGEND

Nxxx	KITCHEN EQUIPMENT # (SHEET A2.0)		FLOW ARROW
	SYSTEM		POINT OF CONNECTION (PEPSI)
			POINT OF CONNECTION (GC)

TPS031

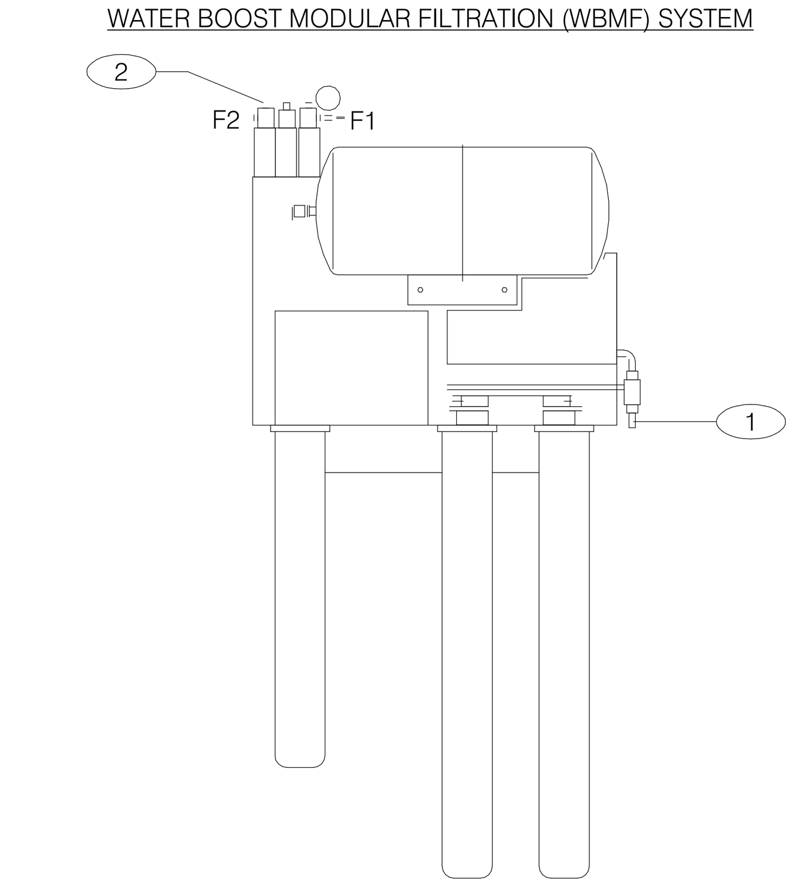
WATER FILTRATION SCHEMATIC NTS 3

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

FILTER LINE F1 SUPPLIES BUNDLED TUBE BY PEPSI
1. DRIVE THRU DRINK STATION
2. SELF SERVE DRINK STATION

FILTER LINE F2 SUPPLIES BUNDLED TUBE BY PEPSI
1. ICE MACHINES

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



KEY NOTES:

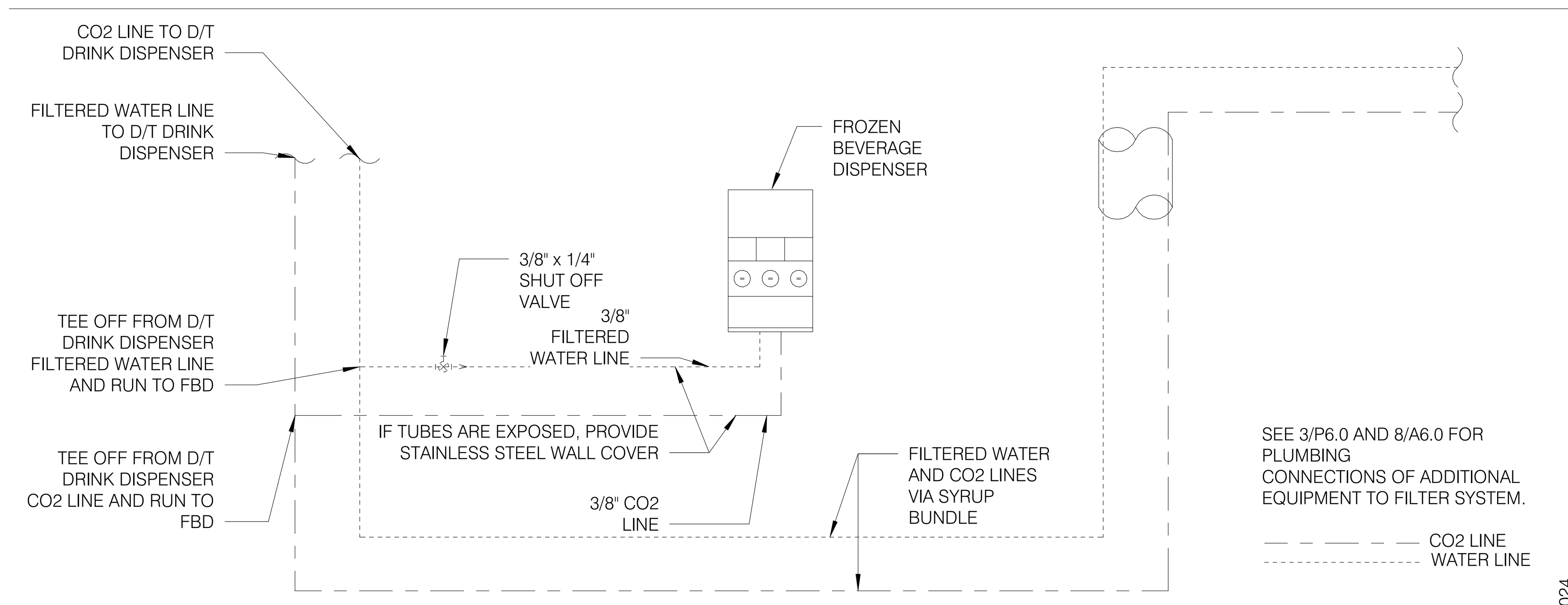
1. 3/4" COLD WATER INLET TO 1/2" COPPER LINE AND FITTINGS AT FILTER.
2. 3/4" OUTLET W/ INTEGRAL BACKFLOW PREVENTER, EQUAL TO WATTS REGULATOR CO. SERIES 007 AND SERVICE BALL VALVE.

GENERAL NOTES:

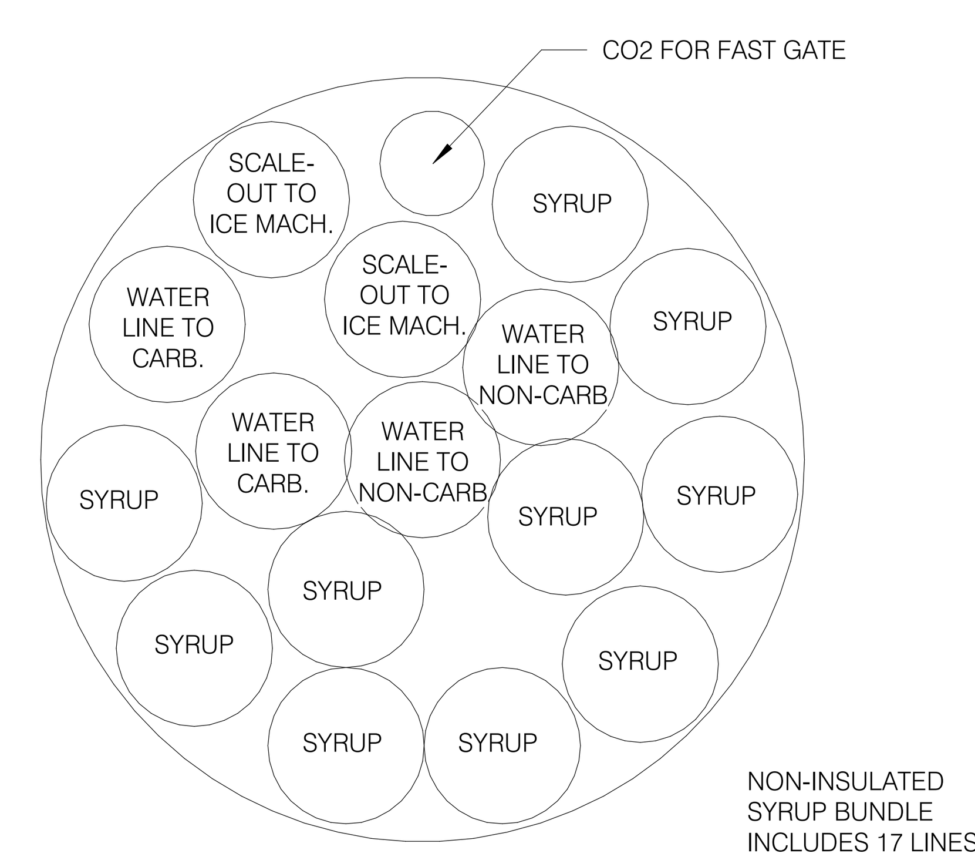
1. OVERALL DIMENSIONS 21" WIDE x 12" DEEP x 48 1/2" HIGH
2. SEE SCOPE OF WORK FOR ADDITIONAL INFORMATION.
3. INSTALLATION SHALL COMPLY WITH STATE AND LOCAL PLUMBING CODES.
4. THE UNIT SHALL BE PROTECTED AGAINST FREEZING.
5. USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
6. DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
7. SEE SHT. A2.0 FOR LOCATION.

TPW001

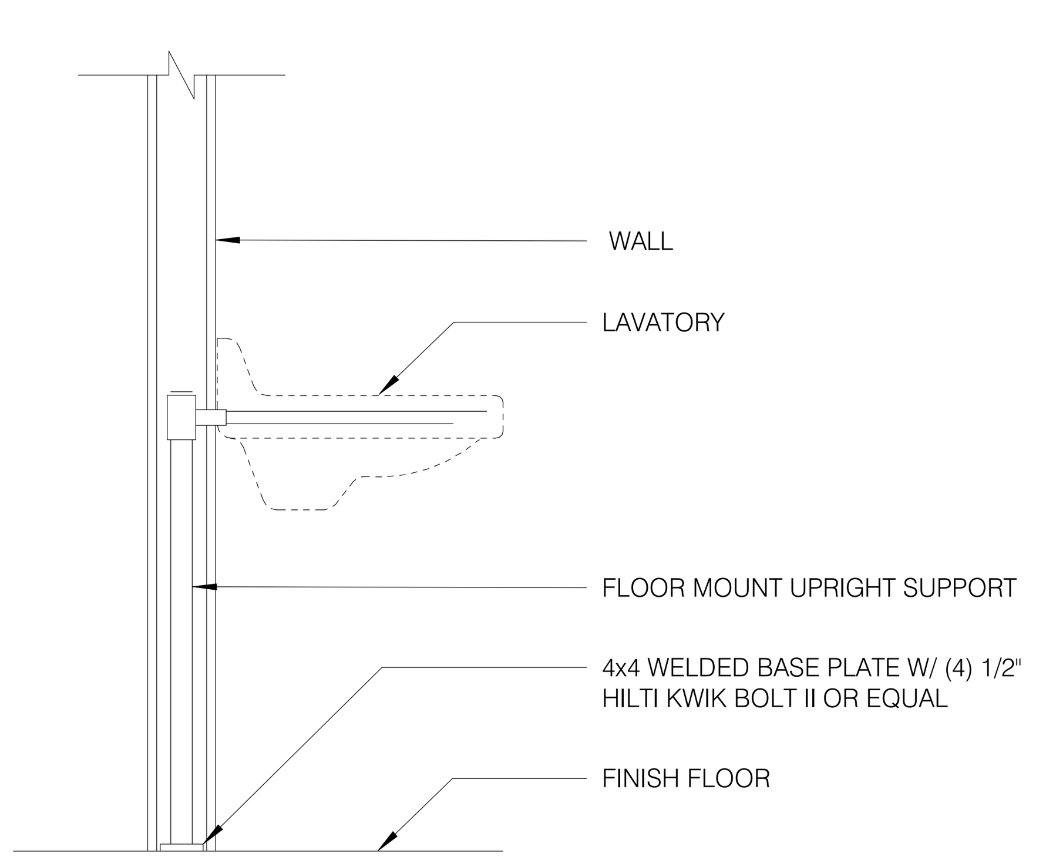
WATER FILTER SYSTEM NTS 1



FBD DRINK SYSTEM DETAIL NTS 7



SYRUP BUNDLE CONFIGURATION NTS 6



LAVATORY SUPPORT NTS 5

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PA/PM:	JW
DRAWN BY.:	AD
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
PLUMBING DETAILS

P6.0

PLOT DATE: 5/3/2022 8:46:08 AM

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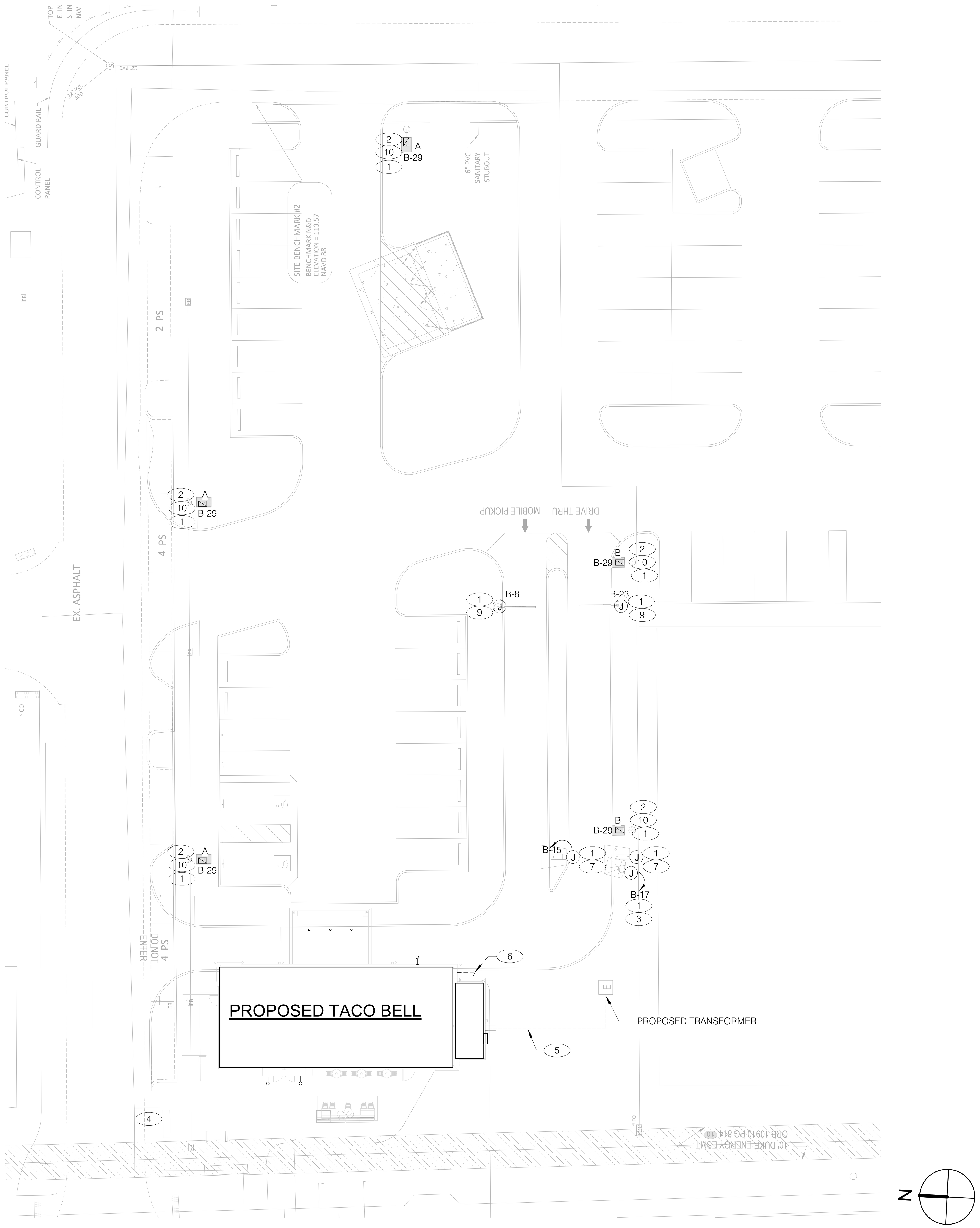

1 — 1" C. - (2) #8, #8 GRD. (TYP. FOR ENTIRE CIRCUIT.)

2 — REFER TO LIGHTING FIXTURE SCHEDULE ON E4.0 FOR ADDITIONAL INFORMATION ON LIGHTIN FIXTURES. (TYPICAL)

3 — DIGITAL MENU BOARD. REFER TO CONDUIT SCHEDULE FOR CONDUIT SIZE AND QUANTITY. PROVIDE (2) #8AWG., #8 GND. IN 1"C. REFER TO CIVIL DRAWINGS.

4 — LED PYLON SIGN BY DEVELOPER.

5 — UNDERGROUND ELECTRIC SERVICE TO UTILITY CO. TRANSFORMER. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.

6 — PROVIDE SEPARATE 2" TELEPHONE AND CABLE (HIGH SPEED INCLUDED) CONDUITS TO CONNECTION ON SITE . REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.

7 — SPEAKER POST AND CANOPY. REFER TO CONDUIT SCHEDULE FOR CONDUIT SIZE AND QUANTITY.

8 — NOT USED.

9 — CLEARANCE BAR. REFER TO CIVIL DRAWINGS.

10 — LED SITE LIGHTING, REFER TO CIVIL DRAWINGS, TYP. REFER TO DETAIL 12/C1.1.

CONDUIT SCHEDULE

DEVICE	POWER	DATA
DIRECTIONAL	(1) 1"	-
SPEAKER POST	(1) 1"	(1) 1"
MENUBOARD	(1) 1"	(2) 1"

ELECTRICAL SITE PLAN - WINTER GARDEN 1" = 20'-0" **1**

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PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2021088.17

TACO BELL
5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
SITE ELECTRICAL PLAN

E1.0

PLOT DATE: 5/3/2022 8:43:51 AM

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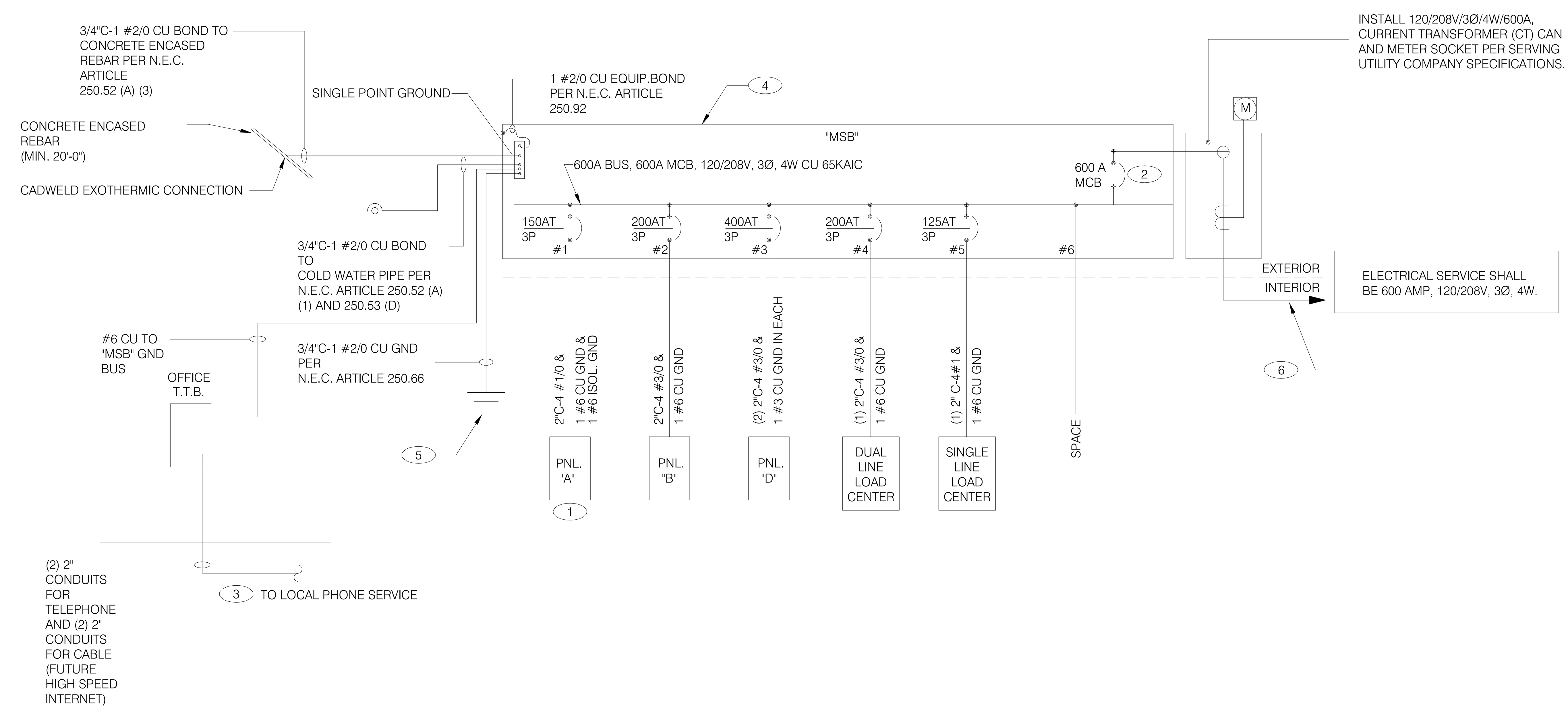

SINGLE LINE DIAGRAM NTS A

ELECTRICAL LEGEND NTS D

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

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. PROVIDE 100% RATED MAIN CIRCUIT BREAKER IN MDP.
3. PROVIDE 2" CONDUIT STUBBED INTO BUILDING FROM LATERAL POLE FOR TELEPHONE AND 2" CONDUIT FOR FUTURE HIGH SPEED CABLE.
4. VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH THE UTILITY COMPANY. IF THE AIC RATING AS INDICATED IS NOT SUFFICIENT, CONTACT PROJECT MANAGER AND ENGINEER PRIOR TO BID/PRICING TO UPDATE EQUIPMENT RATING.
5. (3) 5/8" DIA. x 10'-0" COPPER CLAD GROUND RODS. INSTALL 10'-0" APART AND CONNECT GROUND SYSTEM PER N.E.C. ARTICLE 250
6. PROVIDE UNDERGROUND SERVICE LATERAL TO UTILITY TRANSFORMER PER SERVING UTILITY COMPANY SPECIFICATIONS. 4#350 KCMIL CU. IN EACH OF (2) 3"C. TO PAD MOUNT TRANSFORMER. GC/ELECT. CONTRACTOR SHALL COORDINATE SERVICE POLES PER LOCAL UTILITY CODE. IF ALUMINUM CONDUCTORS ARE USED PROVIDE 4#500 KCMIL CU. IN EACH (2) 3-1/2"C.

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	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0

ELECTRICAL ONE LINE DIAGRAMS AND LEGEND

E2.0

PLOT DATE: 5/3/2022 8:43:53 AM

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

Switchboard: MSB

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

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

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

Notes: 100% RATED CIRCUIT BREAKER

CKT	Circuit Description	WIRE SIZE	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANELBOARD A	1/0	3	225 A	150 A	28100 VA	--
2	PANELBOARD B	3/0	3	225 A	200 A	14649 VA	--
3	PANELBOARD D	3/0	3	400 A	400 A	64237 VA	--
4	DUAL COOK LINE PANEL	3/0	3	225 A	200 A	52000 VA	
5	SINGLE COOK LINE	1	3	225 A	125 A	28800 VA	
6	Space		--	--	--	0 VA	--
					Total Conn. Load:	187786 VA	
					Total Amps:	521 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	32020 VA	100.00%	32020 VA		
Kitchen	11958 VA	65.00%	7773 VA	**Total Conn. Load:**	187786 VA
Lighting	7663 VA	125.00%	9579 VA	**Total Est. Demand:**	185517 VA
Other	930 VA	100.00%	930 VA	**Total Conn. Current:**	521 A
Power	111312 VA	100.00%	111312 VA	**Total Est. Demand Current:**	515 A
Receptacle	6524 VA	100.00%	6524 VA		
Refrigeration	17379 VA	100.00%	17379 VA		

Notes:

Panel: B

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

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

A.I.C. Rating: SERIES
Mains Type: M.L.O.
Mains Rating: 200 A
MCB Rating: N/A

Notes:

NOTES	CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT	NOTES
	1	DINING LTS	20 A	1	599 VA	1000...					1	20 A	EXTERIOR SIGNAGE	2	
2	3	EXTERIOR SCONCE LTS.	20 A	1			180 VA	216 VA			1	20 A	UTILITY RECEPT	4	GFCI
	5	KITCHEN/ BOH/ RESTROOM LTS	20 A	1					1308...	71 VA	1	20 A	EMERGENCY LTS INT/EXT, EXIT SIGNS	6	
	7	LTG - SHOW WINDOW	20 A	1	600 VA	500 VA					1	20 A	CLEARANCE BAR	8	
	9	LTG - SHOW WINDOW	20 A	1			600 VA	500 VA			1	20 A	TBCCB	10	
	11	LTG - COOLER & FREEZER	20 A	1					800 VA	500 VA	1	20 A	E1AN TBANS	12	2
2	13	EXTERIOR SIGNAGE	20 A	1	1000...	0 VA					1	20 A	Spare	14	2
2	15	DIGITAL MENU BOARD/SPEAKER POST	20 A	1			360 VA	0 VA			1	20 A	Spare	16	
2	17	SPEAKER POST	20 A	1					500 VA	0 VA	1	20 A	Spare	18	
2	19	CANOPY LIGHTING	20 A	1	200 VA	0 VA					1	20 A	Spare	20	
2	21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22	
2	23	CLEARANCE BAR	20 A	1					500 VA	0 VA	1	20 A	Spare	24	
	25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26	
	27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28	
2	29	LTG - SITE LIGHTING	20 A	1					935 VA	0 VA	1	20 A	Spare	30	
2	31	EF-1	20 A	1	1120...	0 VA					1	20 A	Spare	32	
2	33	EF-2	20 A	1			660 VA	1500...			1	20 A	PURPLE WALLWASH LIGHTS	34	
	35	Spare	20 A	1					0 VA	1000...	1	20 A	PURPLE WALLWASH LIGHTS	36	
	37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38	GFCI
	39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40	GFCI
	41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42	GFCI
			Total Load:		5019 VA		4016 VA		5614 VA						
			Total Amps:		43 A		33 A		48 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	930 VA	100.00%	930 VA		
Power	2860 VA	100.00%	2860 VA	**Total Conn. Load:**	14649 VA
Lighting	7663 VA	125.00%	9579 VA	**Total Est. Demand:**	16565 VA
HVAC	1780 VA	100.00%	1780 VA	**Total Conn. Current:**	41 A
Receptacle	1416 VA	100.00%	1416 VA	**Total Est. Demand Current:**	46 A

Notes:

CIRCUIT BREAKER/MISC. ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE
IG - ISOLATED GROUND

Panel: A

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

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

A.I.C. Rating: SERIES
Mains Type: M.L.O.
Mains Rating: 150 A
MCB Rating: N/A

Notes:
PROVIDE ISOLATED GROUND BAR

NOTES	CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT	NOTES
1	1	P-417 TIMER	20 A	1	180 VA	300 VA					1	20 A	F-040 OFFICE COMPUTER	2	IG
GF	3	S-546 ICED TEA	20 A	1			480 VA	720 VA			1	20 A	DRIVE THRU POS/ORDER ENTRY 1	4	
1	5	OFFICE QUAD RECEPTACLE	20 A	1					180 VA	480 VA	1	20 A	S-546 BREWER	6	GF
	7	J-BOX SECURITY SYSTEM / DVR	20 A	1	1180...	180 VA					1	20 A	U-011	8	
	9	S-026 HEAT CABINET	20 A	1			1800...	540 VA			1	20 A	RECEPTACLES - OFFICE	10	
IG	11	U-050 CREDIT CARD SAT. ROUTER JUNC.	20 A	1					860 VA	648 VA	1	20 A	S-204 D/T TIMING SYSTEM	12	
	13	F-090	20 A	1	1540...	1140...					1	20 A	R-009 FULL HEIGHT FREEZER	14	GF
GF	15	BEVERAGE DISPENSER D/T	15 A	1			1428...	2013...			2	30 A	P-452 HOT WATER SYSTEM	16	
	17	P-452 HOT WATER SYSTEM	30 A	2					2013...	2013...				18	
	19				2013...	240 VA					1	20 A	C-107 RETHERMALIZER	20	GF 3
	21	SECURITY CAMERA POWER	20 A	1			600 VA	0 VA			1	0 A	SHUNT TRIP SPACE	22	ST
3 GF	23	C-026 FRYER	20 A	1					972 VA	100 VA	1	15 A	C-400 COOK TIMER	24	
ST	25	SHUNT TRIP SPACE	0 A	1	0 VA	500 VA					1	20 A	INTERIOR DIGITAL MENUBOARD	26	
	27	Spare	20 A	1			0 VA	500 VA			1	20 A	OCB SWITCH	28	
	29	DINING POS ENTRY 2	20 A	1					680 VA	1800...	1	20 A	L-045 WARMER	30	GF
IG	31	DRIVE THRU MONITORS	20 A	1	180 VA	360 VA					1	20 A	SAFE W/TOUCHSCREEN CONTROLS	32	
	33	RECIRCULATION PUMP	20 A	1			200 VA	1180...			1	20 A	DINING POS ENTRY 1	34	IG
IG	35	KIOSK POWER - FRONT COUNTER	20 A	1					200 VA	700 VA	1	20 A	AUTO FAUCET POWER	36	
	37	MAINTENANCE RECEPTACLE...	20 A	1	180 VA	0 VA					1	20 A	Spare	38	
	39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40	
	41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42	
			Total Load:		7993 VA		9461 VA		10646 VA						
			Total Amps:		67 A		81 A		91 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	22724 VA	100.00%	22724 VA		
Receptacle	2808 VA	100.00%	2808 VA	**Total Conn. Load:**	28100 VA
				Total Est. Demand:	28100 VA
				Total Conn. Current:	78 A
				Total Est. Demand Current:	78 A

Notes:

CIRCUIT BREAKER/MISC. ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE
IG - ISOLATED GROUND

NOTE

PARKING LOT LIGHTING AND SIGNAGE SHALL PASS THROUGH TBCCB

NOTE TO CONTRACTORS

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

GENERAL NOTE:

FOR PARKING LOT (SITE) LIGHTS AND OUTSIDE SIGNS: PROVIDE (5) 1"C FROM PANEL "B" AND STUB OUT 10'-0" AWAY FROM THE BUILDING. VERIFY EXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY WITH LOCATION. VERIFY OUTDOOR VOLTAGE DROP FOR ALL PARKING LIGHTING (SITE) CIRCUITS.

KEY NOTES:

1. PROVIDE LOCK-ON BREAKER.
2. CIRCUITS TO BE WIRED THROUGH COMBINED CONTROL BOX CONTACTOR. SEE SHEETS 6.0 AND 6.1.
3. PROVIDE GFI BREAKER. CIRCUIT TO BE WIRED THROUGH TBANS. SEE SHEETS E7.0 AND E7.1.

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	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: AJR
JOB NO.: 2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
ELECTRICAL SCHEDULES

E2.1

PLOT DATE: 5/3/2022 8:43:56 AM

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

COMMERCIAL KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT IDENTIFICATION			EQUIPMENT ELECTRICAL CHARACTERISTICS					EQUIPMENT CIRCUIT				EQUIPMENT DISCONNET					
TAG	TYPE	EQUIPMENT NAME	V/Ph - WATTS	FLA/RLA	MCA	TIME DELAY FUSE	INVERSE-TIME BREAKER	SETS	BRANCH CIRCUIT	WIRE TYPE	CONDUIT TYPE	TYPE	SIZE	NEMA	SUPPLIED BY	INSTALLED BY	NOTES
B-223	O	B-223 WATER HEATER IGNITION	120 V/1-744 VA	6.2	7.2	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
B-381	O	CO2 CARBON DIOXIDE SENSOR / WARNING	120 V/1-156 VA	1.0	1.3	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
C-026	KR	FRYER	120 V/1-972 VA	8.1	9.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	1,2
C-107	O	RETHERMALIZER	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	1,2
C-400	O	COOK TIMER	120 V/1-100 VA	0.3	0.4	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
DCL	O	DUAL COOK LINE	208 V/3-52000 VA	145	145	200	200	1	4#3/0 W/#6 G IN 2"C	CU	ST	DIRECT	200	J-BOX	ES	ES	8
E1AN	O	TBANS SHUNT PANEL	120 V/1-500 VA	6.3	7.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
F-040	O	OFFICE COMPUTER	120 V/1-300 VA	2.5	3.1	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-050	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-090	O	UPS	120 V/1-500 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
F-174	O	SAFE W/TOUCHSCREEN CONTROLS	120 V/1-360 VA	3.0	3.8	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
IR-01	O	IRRIGATION TIMER	120 V/1-500 VA	2.0	3.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	1	ES	ES	8
L-044	KR	WARMER R TO L	120 V/1-1800 VA	16.0	16.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
L-045	KR	WARMER R TO L	120 V/1-1800 VA	16.0	16.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
N-043	KR	POWER SOAK	208 V/2-4740 VA	11.4	14.25	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	J-BOX	ES	ES	8
N-044	O	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
P-417	O	TIMER - 8 CHANNEL	120 V/1-180 VA	0.5	0.7	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
P-452	KR	HOT WATER SYSTEM	208 V/2-4026 VA	19.6	24.5	30	30	1	#10 W/#10 G IN 3/4"C	CU	ST	C&P	30	6-30	ES	ES	2
R-009	KM	R-009 FULL HEIGHT FREEZER	120 V/1-1140 VA	9.5	11.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-204	O	S-204 D/T TIMING SYSTEM	120 V/1-216 VA	7.2	9.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-284	KM	BEVERAGE DISPENSER S/S	120 V/1-1116 VA	9.3	12	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-285	KM	S-284 BEVERAGE DISPENSER (D/T)	120 V/1-1428 VA	11.9	14.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-289	O	CREDIT CARD SATELLITE ROUTER JUNCTION	120 V/1-200 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-513	KM	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
S-540	O	PEPSI BOOSTER TANK	120 V/1-564 VA	4.7	5.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-544	O	ICED TEA	120 V/1-240 VA	2.0	2.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-546	O	BREWER	120 V/1-480 VA	4.0	5.0	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-550	O	BAG IN BOX RACK	120 V/1-564 VA	4.7	5.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
S-570	KM	CARBONATOR	120 V/1-138 VA	2.3	2.9	15	15	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	15	5-15	ES	ES	2
S-739	KM	S-739 FROZEN BEVERAGE DISPENSER	208 V/2-3120 VA	31.6	39.5	30	30	1	#10 W/#10 G IN 3/4"C	CU	ST	C&P	30	6-30	ES	ES	2
SCL	O	SINGLE COOK LINE (OPTIONAL)	208 V/3-28800 VA	80	80	125	125	1	4#1 W/#6 G IN 2"C	CU	ST	DIRECT	200	J-BOX	ES	ES	8
U-011	O	BASE STATION - D/T COMM. SYSTEM	120 V/1-180 VA	2	.24	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-050	O	CREDIT CARD SATELLITE ROUTER JUNCTION		1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-061	O	RECEIPT PRINTER		1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
U-062	O	DRIVE-THRU CREDIT CARD READER	120 V/1-500 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-070	O	CREDIT CARD READER	120 V/1-180 VA	1.5	1.9	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	C&P	20	5-20	ES	ES	2
W-XX1	KM	W-075-2 WALK-IN FREEZER	208 V/3-0 VA	11.6	14.5	20	20	1	#12 W/#12 G IN 3/4"C	CU	ST	DIRECT	20	J-BOX	ES	ES	2

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

NOTES: 1 - REQUIRES SHUNT TRIP PROTECTION
2 - CORD & PLUG SUPPLIED AND INSTALLED BY ES. EC SHALL PROVIDE RECEPTACLE.
3 - CORD & PLUG SUPPLIED AND INSTALLED BY ES. RECEPTACLE SUPPLIED BY ES AND INSTALLED BY EC.
4 - CORD, PLUG & RECEPTACLE SUPPLIED AND INSTALLED BY EC.
5 - SINGLE PHASE, THREE WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
6 - THREE PHASE, FOUR WIRE EQUIPMENT. PROVIDE NEUTRAL CONDUCTOR AND GROUND.
7 - OUTLETS SUPPLIED AND INSTALLED BY ES. CONDUIT & WIRING PROVIDED BY EC.
8 - HARDWIRED CONNECTION BY E.C.

REFER TO ARCHITECTURAL EQUIPMENT SCHEDULE FOR ALL KITCHEN EQUIPMENT AND FINAL COORDINATION

Panel: D

Location:
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SERIES
Mains Type: M.L.O.
Mains Rating: 400 A
MCB Rating: N/A

Notes:

NOTES	CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT	NOTES
GF	1	CARBONATOR	15 A	1	276 VA	0 VA					1	20 A	Spare	2	
GF	3	B-223 WATER HEATER IGNITION	20 A	1			744 VA	1000...			1	20 A	ALTERNATE PAYMENT ROUTER BOX...	4	
	5	OC SWITCHED RECEPTACLE	20 A	1					180 VA	680 VA	1	20 A	IRRIGATION TIMER AND RECEPTACLE	6	GF
GF	7	S-540 PEPSI BOOSTER TANK	20 A	1	564 VA	500 VA					1	20 A	MUSIC SYSTEM J-BOX AND...	8	
	9	RECEPTACLES - ROOF	20 A	1			540 VA	1560...			2	30 A	S-739 FROZEN BEV. DISP.	10	GF
	11	CONVENIENCE RECEPTACLES	20 A	1					360 VA	1560...				12	
	13	GENERAL PURPOSE RECEPTACLES	20 A	1	1440...	1600...					2	20 A	ICE MAKER CONDENSER D/T	14	
GF	15	DRINK FOUNTAIN - S-284 AND S-513	20 A	1			1254...	1600...						16	
	17	ICE MAKER CONDENSER	20 A	2					1600...	1600...	2	20 A	ICE MAKER CONDENSER	18	
	19				1600...	1600...								20	
GF	21	S-550 BAG IN BOX RACK	20 A	1			564 VA	2370...			2	20 A	POWER SOAK	22	GF
	23	B-381 AMPROBE CO2 MONITOR	20 A	1					156 VA	2370...				24	
	25	RTU-1	50 A	3	5040...	500 VA					1	20 A	MUSIC SYSTEM (MUZAK)	26	
	27						5040...	1200...			3	15 A	WALK-IN COOLER	28	
	29								5040...	1200...				30	
	31	RTU-2	90 A	3	5040...	1200...								32	
	33						5040...	1393...			3	20 A	WALK-IN FREEZER	34	
	35								5040...	1393...				36	
	37	Spare	20 A	1	0 VA	1393...								38	
	39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40	
	41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42	
				Total Load:	20753 VA		22305 VA		21179 VA						
				Total Amps:	173 A		186 A		177 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	4928 VA	100.00%	4928 VA		
HVAC	30240 VA	100.00%	30240 VA	**Total Conn. Load:**	64237 VA
Receptacle	2300 VA	100.00%	2300 VA	**Total Est. Demand:**	60951 VA
				Total Conn. Current:	178 A
				Total Est. Demand Current:	169 A

Notes:

CIRCUIT BREAKER/MISC. ACC. ABBREVIATIONS:

GF - GROUND FAULT CIRCUIT INTERRUPTER
AF - ARC-FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HL-ON - HANDLE-LOCK ON DEVICE
HL-OFF - HANDLE-LOCK OFF DEVICE
EPD - EQUIPMENT PROTECTION DEVICE
IG - ISOLATED GROUND

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CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
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BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: AJR
JOB NO.: 2021088.17

TACO BELL

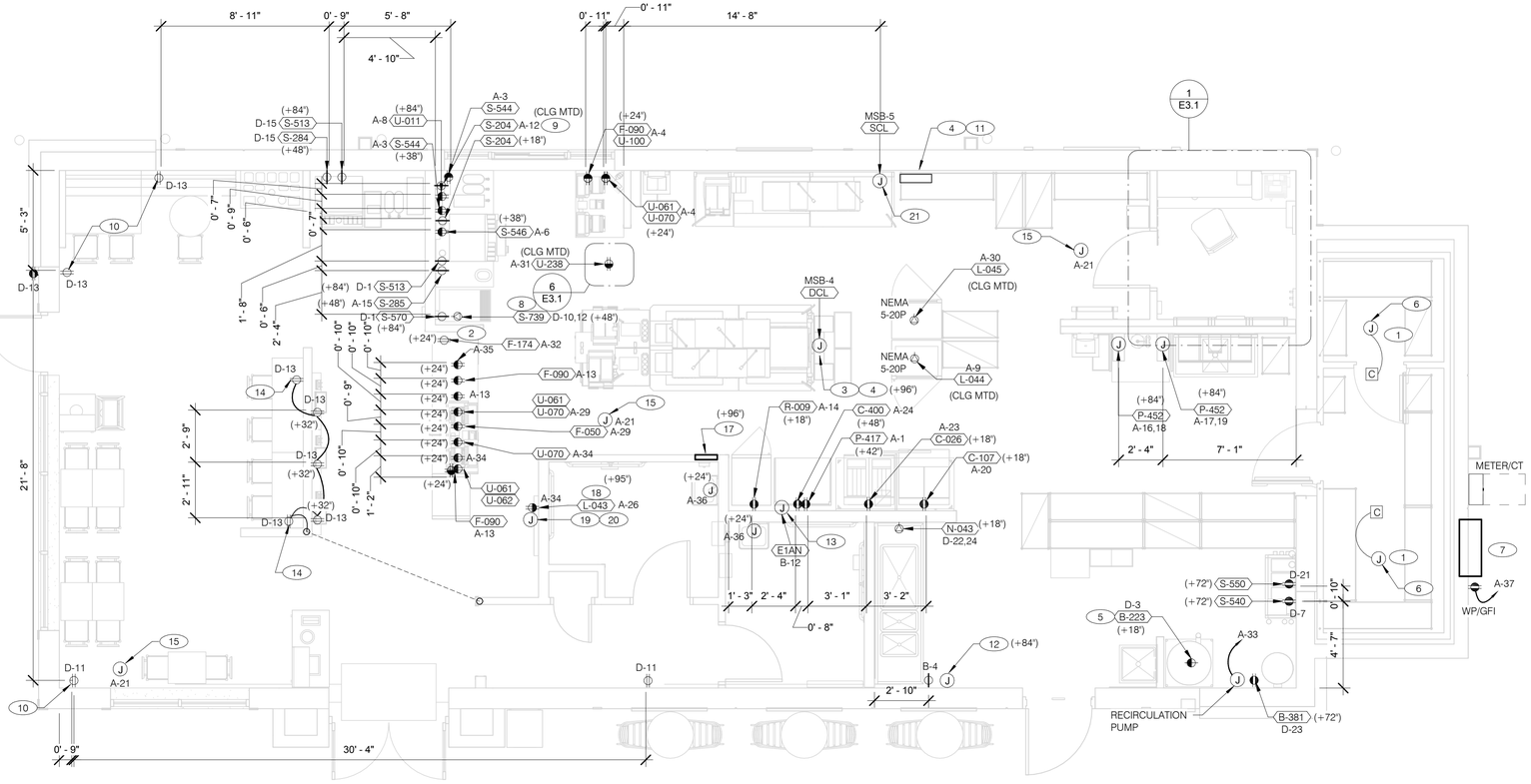
5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
ELECTRICAL SCHEDULES

E2.2

PLOT DATE: 5/3/2022 8:44:00 AM

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



N

RECEPTACLE NOTE:

ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER RESISTANT.

NOTE

5mA GFCI BREAKERS MUST BE USED WHERE OUTLETS REQUIRING GFCI PROTECTION ARE NOT ACCESSIBLE FOR COMPLIANCE WITH NEC 210.8. WHERE GFCI PROTECTION AND SHUNT TRIP IS REQUIRED, THE CIRCUIT SHALL HAVE A GFCI BREAKER AND PASS THROUGH THE TBANS PANEL.REFER TO DETAILS IN E7.0 AND E7.1.

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

GENERAL NOTES - ELECTRICAL POWER PLAN NTS C

A. ALL DIMENSIONS TO J-BOXES ARE FROM FACE OF STUD TO CENTER OF BOX, U.O.N.

B. ALL CONDUIT DROPS ARE INSIDE WALLS U.O.N. SEE ARCH. DWGS FOR WALL DIMS.

C. ALL J-BOX CIRCUITS, CONDUITS, FIXTURES, ETC. SHALL BE AS INDICATED ON THE ELECT. DWGS AND SPECS.

D. CONTRACTOR SHALL VERIFY UNDERGROUND CONDUIT LOCATIONS PRIOR TO POURING SLAB.

E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ELECT. ROUGH-INS WITH INFO PROVIDED ON THE ARCH. AND STRUCT. DWGS AND THE EQUIPMENT ACTUALLY SUPPLIED, AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS HEREIN.

F. LOCATIONS OF ALL OUTLETS MAY BE RELOCATED TO NEAREST STUD. DO NOT CUT INTO STUDS.

G. FOR EXACT LOCATIONS OF KITCHEN & MECHANICAL EQUIPMENT AND POINTS OF CONNECTION, REFER TO KITCHEN & MECHANICAL EQUIPMENT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.

H. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY NEC.

I. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER, DISCONNECT SWITCH, STARTER AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED.

J. ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE NEMA-1 FOR INTERIOR AND NEMA 3R FOR EXTERIOR. IN COASTAL REGIONS THE STANDARD FOR OUTSIDE SHALL BE NEMA-4X.

K. PER SECTION 210.8 NEC 2020, ALL SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERERS OR LESS SHALL HAVE GFCI PROTECTION FOR PERSONNEL AS REQUIRED.

L. DO NOT MEASURE/LOCATE OUTLETS ON DRAWINGS. USE DIMENSIONS PROVIDED.

M. CONDUIT MAY RUN UNDER SLAB AT G.C.'S DISCRETION.

N. E.C. SHALL PROVIDE A PREPRINTED SELF-ADHESIVE LABEL ON ALL POS RECEPTACLES STATING "POS USE ONLY".

O. PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILING, AND FLOORS. DO NOT USE CAULKS OR EXPANSION FOAM FOR SEALANT.

P. ARMOR CABLE (BX) ALLOWED WHERE ACCEPTABLE BY CODE. ALL WIRE SHALL BE CONCEALED O.N.U.

Q. FOR ALL CIRCUITS NOT SHOWN ON EQUIPMENT SCHEDULE, CONTRACTOR SHALL PROVIDE CONDUCTOR AND CONDUIT SIZES AS SHOWN ON BRANCH CIRCUIT WIRING SCHEDULE SHOWN ON E2.2. IF SIZES DIFFER FROM N.E.C., THE MORE STRINGENT (LARGER) SIZE SHALL BE PROVIDED.

R. OUTLETS WITHIN FOH TO BE AT 18" AFF FOR ADA ACCESS.

S. CONDUITS NEAR DRIVE THRU WINDOW AREA TO BE ROUTED FROM ABOVE CEILING OR STUBBED UP FROM UNDER SLAB SO AS TO NOT INTERFERE WITH WINDOW FRAMING.

KEY NOTES - ELECTRICAL POWER PLAN NTS B

1. REFER TO ROOF PLAN.
2. INSTALL IN CONDUIT RUNNING ON SURFACE OF KITCHEN SIDE OF CABINETRY REAR WALL.
3. CONNECT PRODUCTION LINE CIRCUIT BREAKER PANEL VIA UTILITY CHASE IN CEILING TO A 3 POLE, 200 AMP CIRCUIT BREAKER IN MAIN SWITCHBOARD. SEE SHEET E2.0. VERIFY ALL REQUIREMENTS WITH ACTUAL EQUIPMENT SPECIFIED. THE MANUFACTURER WILL FULLY PRE-WIRE THE COMPLETE MAPS LINE AT THE FACTORY. THE UNITS WILL THEN BE PULLED APART FOR SHIPPING PURPOSES. ALL CONNECTION POINTS WILL BE MARKED. THE CONDUIT RUNS WILL BE COILED UP FOR FIELD INSTALLATION. SOME ELECTRICAL COMPONENTS MAY BE REMOVED FOR EASE OF DISASSEMBLING THE LINE-UP. THE ELECTRICAL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR MAKING THE PROPER FIELD CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE MANUFACTURER PROVIDED BREAKER PANEL BOX. IN ADDITION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY SPLICE POINTS AND/OR JUNCTION BOXES THAT NEED TO BE RECONNECTED. SOME ELECTRICAL COMPONENT ASSEMBLY MAY ALSO BE REQUIRED.
4. EQUIPMENT CABINET.
5. LOCATED INSIDE SHELL OF HEATER.
6. INSTALL CONTROL CABLE FROM FREEZER/COOLER FAN COIL TO ROOF MOUNTED CONDENSOR.
7. LOCATE SWITCHGEAR PER GUIDELINES ON SHEET A4.1.
8. PROVIDE BOOST TRANSFORMER (208V, 1-PHASE IN, 240V, 1-PHASE OUT) FOR FROZEN BEVERAGE DISPENSER.
9. CEILING MOUNTED FOR WALL MOUNTED HME. SEE 7/E3.1
10. PROVIDE TAMPER RESISTANT DUPLEX RECEPTACLE WITH TWO (2) USB CHARGING PORTS.
11. VERIFY PANEL LOCATION OF COOK LINE WITH TACO BELL CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
12. PROVIDE J-BOX FOR POWER SOAK INDICATOR LIGHT. (OPTIONAL)
13. VERIFY LOCATION OF JUNCTION BOX WITH CONSTRUCTION MANAGER.
14. E.C. SHALL PROVIDE, INSTALL AND WIRE A DUPLEX RECEPTACLE WITH (2) USB POWER PORTS IN SINGLE-GANG BOX PROVIDED WITH TABLE, AT EACH END OF THE TABLE. PROVIDE GALVANIZED COVER PLATE TO MATCH BOX.
15. PROVIDE POWER FOR SECURITY CAMERAS. COORDINATE WITH CAMERA VENDOR, SECURITY, AND CONSTRUCTION SUPERVISOR PRIOR TO ROUGH-IN.
16. NOT USED.
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.

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PLAN VERSION:	MARCH 2021
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SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
ELECTRICAL POWER PLAN

E3.0

PLOT DATE: 5/3/2022 8:44:08 AM

THE DEDICATED POS POWER CIRCUIT REQUIRES AN ISOLATED GROUND IN ADDITION TO THE NORMAL COMMON BUILDING GROUND. THE ISOLATED GROUND WIRE SERVES TWO PURPOSES:
* AS A SAFETY PATH TO GROUND.
* AS A ZERO REFERENCE POINT FOR ALL POS DIGITAL LOGIC.

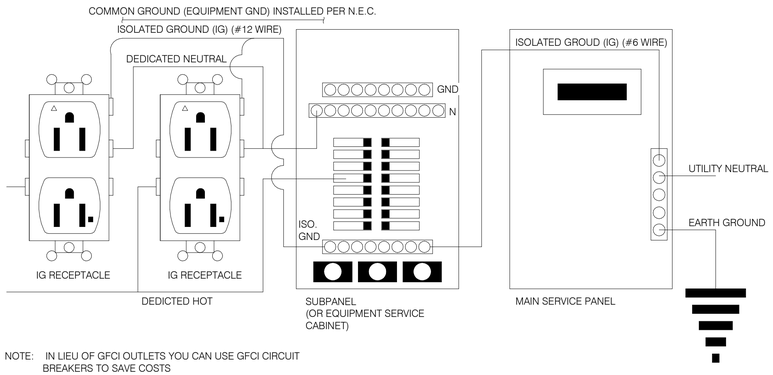
THE GROUND MUST EXHIBIT THE LOWEST POSSIBLE IMPEDANCE TO MINIMIZE VOLTAGE TRANSIENTS AND NOISE.

BE SURE TO:

* USE AN INSULATED CONDUCTOR FOR THE ISOLATED GROUND WIRE.
* RUN THE ISOLATED GROUND WIRE THROUGH THE SAME CONDUIT AS THE HOT AND NEUTRAL WIRES.
* INSTALL ONLY ISOLATED GROUND (IG) TYPE RECEPTACLES.
* CONNECT THE ISOLATED GROUND WIRE TO BUILDING GROUND ONLY AT THE MAIN SERVICE PANEL.
* VERIFY THAT IG RECEPTACLES PRE-WIRED IN OWNER SUPPLIED EQUIPMENT HAVE A TRUE ISOLATED GROUND THAT CAN BE TRACED BACK TO THE BUILDING GROUND AT THE MAIN SERVICE PANEL.

DO NOT CONNECT THE ISOLATED GROUND WIRE TO THE CONDUIT, JUNCTION BOXES, THE FRAME ON A SUBPANEL, OR ANY OTHER METAL SURFACE.

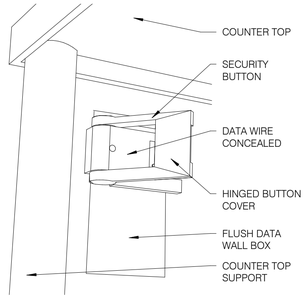
DEDICATED CIRCUITS: DEDICATED CIRCUITS REQUIRE A DEDICATED HOT AND A DEDICATED NEUTRAL THAT ARE NOT SHARED WITH ANY OTHER CIRCUITS. IG RECEPTACLES MUST BE "PHASE ALIGNED" WITH THE "B" PHASE OF BUILDING SUBPANEL 'A'.



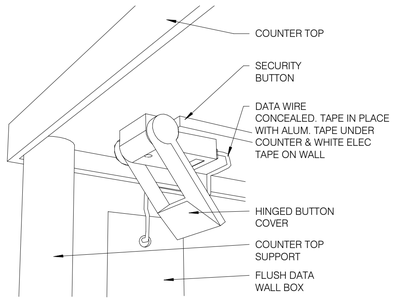
NOTE: IN LIEU OF GFCI OUTLETS YOU CAN USE GFCI CIRCUIT BREAKERS TO SAVE COSTS

YEW011

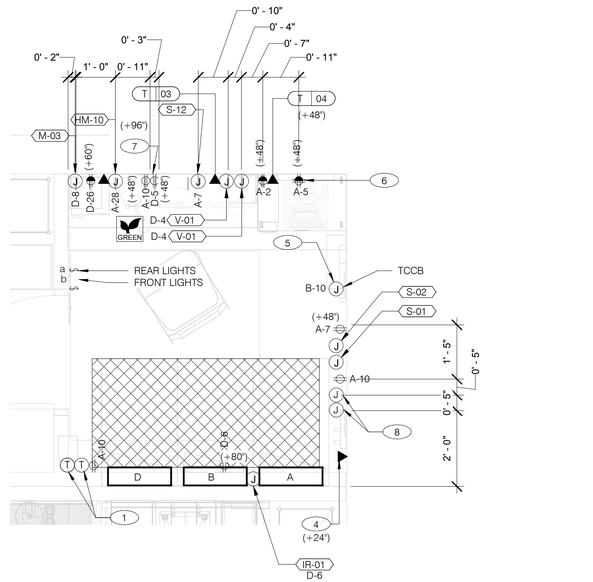
P.O.S. ISOLATED GROUND SYSTEM NTS 6



SECURITY BUTTON ON WALL NTS 3

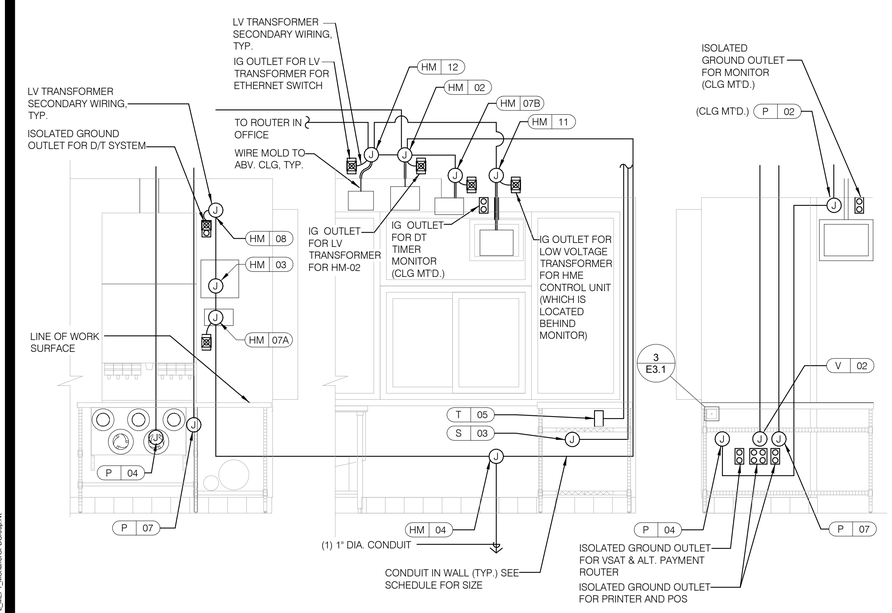


SECURITY BUTTON UNDER COUNTER NTS 4



N

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



REFER TO COMMUNICATIONS SCHEDULE ON SHEET E5.0 FOR EQUIPMENT DESCRIPTIONS/MOUNTING HTS.

ENLARGED INTERIOR ELEVATION (D/T WINDOW) NTS 7

NOTE

TBCCB AND TBANS REQURE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR CALL 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0

1. THERMOSTATS CONTROLS.
2. NOT USED.
3. NOT USED.
4. PHONE JACK FOR MODEM.
5. LOCATION OF TBCCB COMBINED CONTROL BOX. COORDINATE EXACT LOCATION IN THE FIELD. CONSIDER OPERATOR NEED TO ACCESS SWITCHES ON THE FRONT OF THE CONTROL BOX AND BUILT IN OCCUPANCY SENSOR FOR MANAGERS OFFICE.
6. DATA JACK FOR TECH-IN-A-BOX WITH 2 PORTS.
7. ROUTE CIRCUIT THROUGH TBCCB OCCUPANCY SENSOR FOR CONTROLLED RECEPTACLE.
8. PROVIDE BACK-BOX AND CONDUIT WITH PULLSTRING FOR REMOTE TEST STATIONS PROVIDED BY MECHANICAL. COORDINATE REQUIREMENTS WITH MECHANICAL.

KEY NOTES - ELECTRICAL ENLARGED DETAILS NTS 2

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TACO BELL

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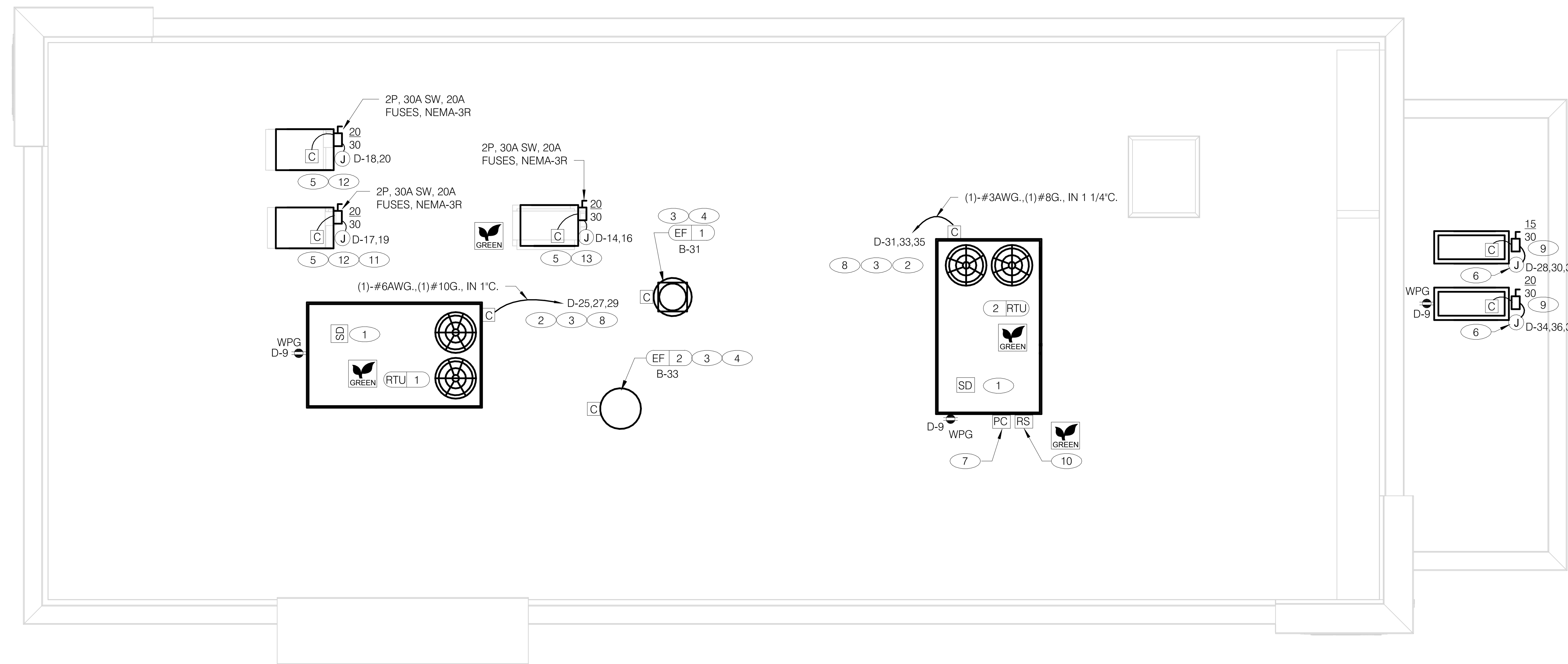
ENDEAVOR 2.0

ENLARGED POWER PLAN AND DETAILS

E3.1

PLOT DATE: 5/3/2022 8:44:12 AM

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



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

GENERAL NOTES - ELECTRICAL POWER ROOF PLAN NTS C

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

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

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

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

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

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

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

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

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

J. ARMOR CABLE (BX) IS ONLY TO BE ALLOWED WHERE ACCEPTABLE BY AUTHORITY HAVING JURISDICTION.

KEY NOTES - ELECTRICAL POWER ROOF PLAN NTS B

1. MECHANICAL CONTRACTOR SHALL PROVIDE CONNECTIONS BETWEEN RTU FACTORY SMOKE DETECTORS AND REMOTE ENNUNCIATOR, TEST AND RESET DEVICE IN MANAGER OFFICE. ELECTRICAL CONTRACTOR SHALL PROVIDE ANY NECESSARY CONDUITS FOR LOW VOLTAGE WIRING.
2. SPECIFIED RTU IS SUPPLIED WITH UNPOWERED, WEATHERPROOF GFCI CONVIENENCE OUTLET AND FACTORY INSTALLED HACR CIRCUIT BREAKER WITH WEATHER TIGHT ENCLOSURES AND ACCESS THRU SWINGING DOOR.
3. POWER AND CONTROL IN FLEXIBLE WATERPROOF CONDUIT (LFMC CONDUIT) TO ENTER FROM SIDE OF THE CURB AND UP TO FACTORY PROVIDED DISCONNECT SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
4. CONNECT TO APPROPRIATE TERMINALS OF TBCCB CONTROL BOX. SEE E6.1 FOR DETAILS.
5. 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE ICE MACHINE. MAKE CONNECTION TO ICE MACHINE AND CONDENSING UNIT.
6. REFER TO POWER PLAN FOR CONTINUATION TO COOLER / FREEZER.
7. CONNECT TO APPROPRIATE PHOTOCELL TERMINALS OF TBCCB CONTROL BOX. SEE E6.1 FOR DETAILS.
8. RTU'S SHALL BE PROVIDED WITH BUILT-IN DISCONNECT AND SINGLE POINT WIRING.
9. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER TYPE, STARTER, DISCONNECT SWITCH, AND FUSE SIZE (IF REQUIRED) WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND FURNISH AND INSTALL EVERYTHING AS REQUIRED.
10. RAIN SENSOR. ← GREEN
11. PIPE HOOD, SEE 9/A6.0
12. ELECTRICAL CONTRACTOR SHALL MAKE ALL ELEC. CONNECTIONS INCLUDING ALL NECESSARY INTERCONNECTIONS BETWEEN THE COMPRESSOR ON THE ROOF & THE EVAPORATOR IN THE ICE MACHINE AS REQ'D, REFER TO THE MFR'S SHOP DWGS FOR EXACT INSTALL. & INTERCONNECTION RQMTS, PRIOR TO ROUGH-IN INSTALL.
13. 1/2" C, WITH REQ'D CONDUCTORS TO J-BOX IN CEILING ABOVE FROZEN BEVERAGE MACHINE. MAKE CONNECTION TO BEVERAGE MACHINE AND ASSOCIATED CONDENSING UNIT.

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ENDEAVOR 2.0

ELECTRICAL POWER ROOF PLAN

E3.2

PLOT DATE: 5/3/2022 8:44:16 AM

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AKRON, OH 44311
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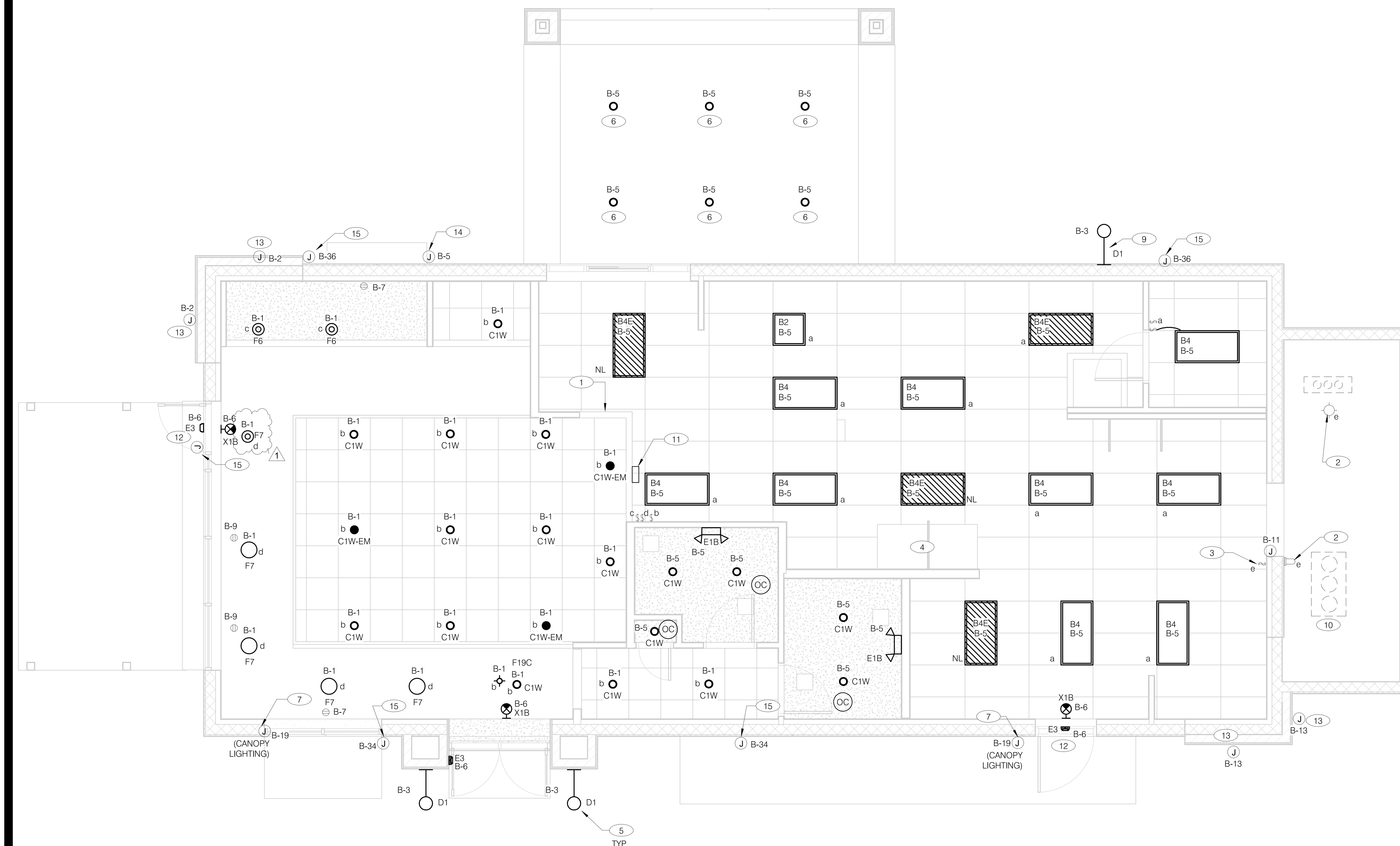


GENERAL NOTES:

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 AND E6.1.

F. CONTRACTOR TO FIELD VERIFY CEILING TYPE AND PROVIDE PROPER MOUNTING HARDWARE.

G. ALL FIXTURES SUPPLIED WITH LAMPS.

H. ALL EXTERIOR NON-EMERGENCY LIGHT FIXTURES, BUILDING SIGNS, AND EXTERIOR SIGNS SHALL BE CONTROLLED THROUGH PHOTOCELL AND LIGHTING CONTROL RELAYS. SEE E6.0 AND E6.1 FOR ADDITIONAL DETAILS.

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

NO.	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP #/TYPE	BALLAST TYPE	ELECTRICAL DATA	REMARKS
A	LSI INDUSTRIES	MRM-LED-12L-SIL-FT-40-70CRI-IL	LED POLE LIGHT		LED		120 V/1-187 VA	-
B	LSI INDUSTRIES	MRM-LED-24L-SIL-FT-40-70CRI	LED POLE LIGHT	22' LIGHT POLE	LED	NA	120 V/1-187 VA	-
B2	ABB	FLP22-D53W40	2X2 LED TROFFER		LED		120 V/1-45 VA	-
B4	ABB	FLP24-D53W40	2X4 LED TROFFER		LED		120 V/1-45 VA	-
B4E	ABB	FLP24-D53W40-EM	2X4 LED TROFFER		LED		120 V/1-45 VA	PROVIDE 90 MIN. BACK UP BATTERY
C1W	MAXLITE	B6IC-AT-W- LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING		LED		120 V/1-14 VA	-
C1W-EM	MAXLITE	B6IC-AT-W- LED14DR5630KB95	LED TRIM 14W 6" RECESSED 30K 80CRI WHITE TRIM, W/ ELITE B6IC-AT-W 6" IC AIR SHUT HOUSING		LED		120 V/1-14 VA	PROVIDE 90 MIN. BACK UP BATTERY
D1	TROY	B2772	17"X14" WALL MOUNT SCONCE, OLD SILVER FINISH, MEDIUM BASE SOCKET, 100 WATT MAX		LED9A19D2527K		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	-
E3	LITHONIA	AFF-PEL-DDBTXD-UVOLT-LTP-SDR T-WT-CW	SELF-POWERED EMERGENCY WALLPACK W/ PHOTOCELL	8'-6"	LED	EM	120 V/1-20 VA	
F6	KICHLER	43852OZ	9.75" GLASS PENDANT AVERY WITH MED BASE SOCKET RATED 100W MAX OLDE BRONZE FINISH	PENDANT, 6'-0" A.F.F.	1/LED AAMSCO LED-6W-ST64HYBRID-DIM	NA	120 V/1-100 VA	PLACEHOLDER INCLUDES LAMP
F7	HI-LITES	H24212-96-CB15-20WLBL-6OP	12" GALVANIZED PENDANT WITH BLACK CORD AND CANOPY MED BASE SOCKET	PENDANT, 6'-0" A.F.F.	1/LED 10A19D0D27K	NA		-
F19C	SPECTRUM LIGHTING	SPCO304INC-MWL(25W)PAR20-CM-180"-MB	LED PENDANT - 3"	PENDANT, 6'-0" A.F.F.	1/LED LR20/40/27K/975/BK	NA	120 V/1-9 VA	-
X1B	LIGHTALARMS	GRANNRB	LED UNIVERSAL MNTG THERMOPLASTIC EXIT, RED LETTERS, BLACK HSNG	UNIVERSAL	-/LED	EM	120 V/1-3 VA	-

1. PRE-FABRICATED & PRE-FINISHED SOFFIT. REFER TO A7.1 FOR SPECIFICS. (OPTIONAL).
2. FOR LIGHTING FIXTURES, CONDUIT, CONDUCTORS AND INSTALLATION RESPONSIBILITIES, REFER TO SCOPE OF WORK.
3. FIXTURE AND SWITCH FACTORY INSTALLED WITH UNIT. G.C. TO COMPLETE CIRCUITING.
4. EXHAUST HOOD LIGHT FIXTURES SUPPLIED WITH HOOD AND MTD IN PRE-WIRED J-BOX. COMPLETE CIRCUITING PER SHEET E6.1.
5. COORD. J-BOX LOCATION WITH WOOD FRAMING SO IT REMAINS CONCEALED BEHIND FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DWGS.
6. PROVIDE POWER TO DRIVE THRU CANOPY LIGHTING FIXTURES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CANOPY VENDOR AND CONSTRUCTION SUPERVISOR PRIOR TO CONNECTIONS.
7. PROVIDE POWER CONNECTION TO CANOPY AT FACTORY INSTALLED DISCONNECT SWITCH FOR CANOPY LIGHTS. LIGHTS ARE FURNISHED WITH CANOPY. PROVIDE ALL REQUIRED FIELD WIRING. COORDINATE REQUIREMENTS WITH MANUFACTURIER.
8. NOT USED
9. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS ON A4.0 AND A4.1 FOR DIMENSIONED LOCATION OF FIXTURE.
10. SEAL ALL ELECTRICAL CONDUITS INTO THE WALK-IN COOLER.
11. ALERT LIGHT : ONLY APPLIES WHEN A GEN IV POWER SOAK IS USED. DISREGARD IF GEN III POWER SOAK IS USED. SEE SHEET E3.0 FOR POWER REQUIREMENTS.
12. MOUNT 'E3' AT 8'-6" A.F.G. TO CENTER OF FIXTURE.
13. VERIFY MOUNTING HEIGHT FOR SIGN POWER WITH ARCHITECTURAL ELEVATIONS AND SIGN VENDOR.
14. PROVIDE POWER CONNECTION TO CANOPY AT FACTORY INSTALLED DISCONNECT SWITCH FOR CANOPY LIGHTS. LIGHTS ARE FURNISHED WITH CANOPY. PROVIDE ALL REQUIRED FIELD WIRING. COORDINATE REQUIREMENTS WITH MANUFACTURIER.
15. PROVIDE POWER CONNECTION TO PURPLE WALLWASH LIGHTS FURNISHED BY SIGN VENDOR. PROVIDE ALL REQUIRED FIELD WIRING. CONTROL FIXTURES WITH EXTERIOR LIGHTING FIXTURES. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS. COORDINATE REQUIREMENTS WITH VENDOR.

KEY NOTES - ELECTRICAL LIGHTING PLAN AND SCHEDULE NTS B

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: AJR
JOB NO.: 2021088.17

TACO BELL

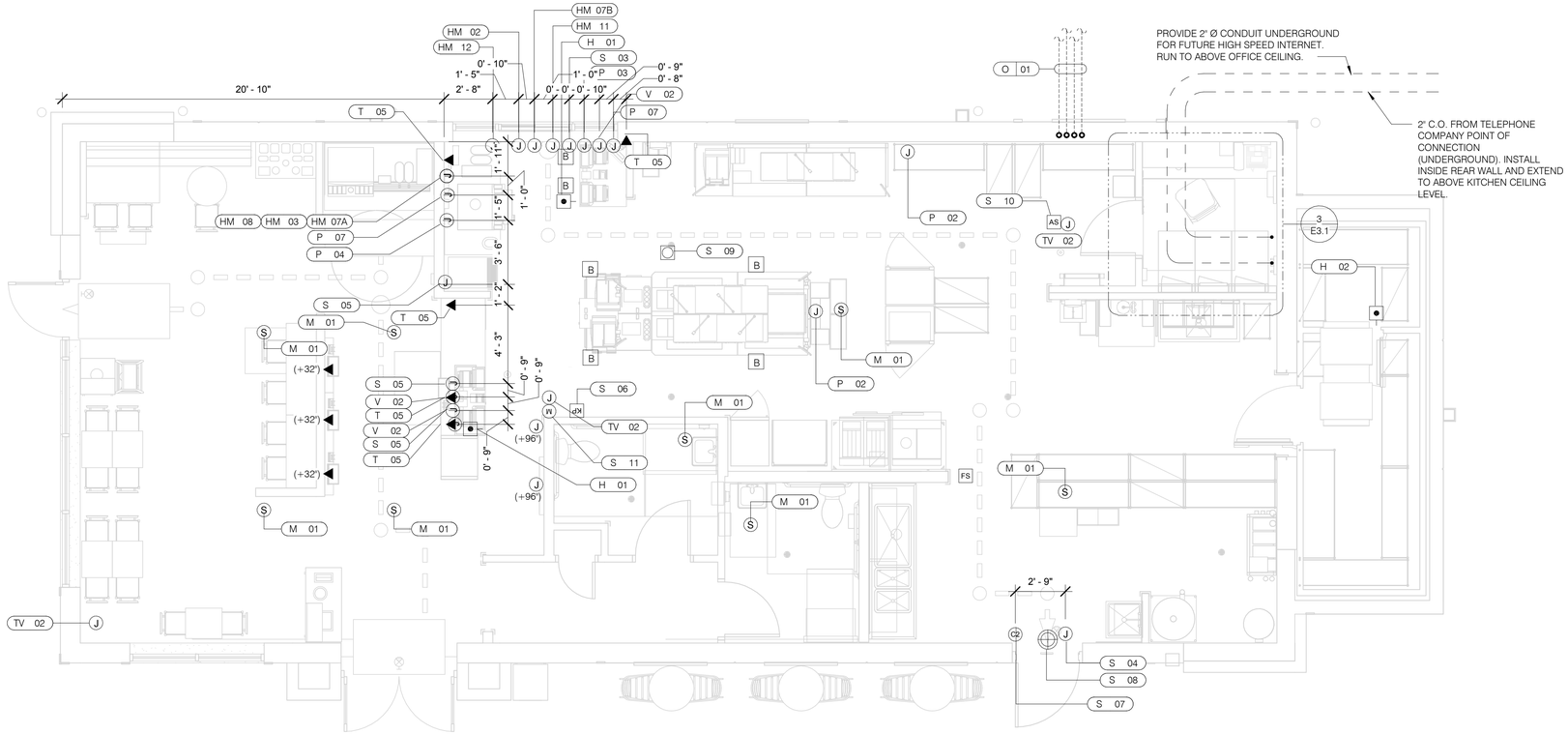
5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
LIGHTING PLAN AND DETAILS

E4.0

PLOT DATE: 5/3/2022 8:44:22 AM

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.

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
- M MOTION DETECTOR
- OC OCCUPANCY SENSOR. CEILING MOUNTED. SEE DETAILS 1 & 2 / E7.0
- C2 DOOR CONTACT (LINKED TO AUDIO / VISUAL ALARM)
- "SOUND ALERT" DEVICE
- KP KEYPAD (MTD AT 48" A.F.F.)
- AS ALARM SIREN ABOVE CLG
- B BUMP PAD (MOUNT AT FRONT COUNTER)
- FS HOOD FIRE SUPPRESSION SYSTEM PULL STATION
- USB OUTLET

COMMUNICATIONS 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 7/E3.1
HM	08	D/T J-BOX	+96" A.F.F.	4X4X4" DEEP (MIN.) J-BOX W/ (1) 1-1/2" CONDUIT TO HM-03 & (1) 1-1/2" CONDUIT TO HM-02. SEE DETAIL 7/E3.1.
HM	11	D/T CONTROL UNIT J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-12. SEE DETAIL 7/E3.1.
HM	12	D/T/ ETHERNET SWITCH J-BOX	+126" A.F.F.	2X4 J-BOX ABV. CEILING W/ (1) 1" CONDUIT TO HM-11, (1) 1" CONDUIT TO HM-02 & (1) 1" CONDUIT TO OFFICE ROUTER.
M	01	SPEAKER, CEILING MOUNTED	CEILING	SPEAKER WIRING FROM SPEAKERS IN DINING ROOM TO AMPLIFIER IN OFFICE. FOR EXACT LOCATION OF SPEAKERS, SEE LIGHTING PLAN SHEET E4.0.
P	02		CEILING	2X4 J-BOX FLUSH @ CEILING. FOR M.A.P.S. LINE MONITOR J-BOX.
P	03	KITCHEN MONITOR J-BOX	+84" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO ABOVE CIELING
P	04	BUMP PAD J-BOX	+24" A.F.F.	2X4 J-BOX W/ (1) 3/4" CONDUIT TO P-03.
P	07	POS J-BOX W/ 2-1/2" DIA HOLE IN COVER PLATE	+24" A.F.F.	6X6X4" DEEP J-BOX W/ 2-1/2" CONDUIT IN WALL TO ABV. CEILING, WITH PULL STRING FOR POS.
S	03	J-BOX SECURITY SYSTEM	+30" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABV. CLG. FOR HOLD-UP BUTTON SIGNAL WIRE.
S	04	J-BOX SECURITY SYSTEM	+84" A.F.F.	2X4 J-BOX W/ COVER & (1) 1/2" CONDUIT TO ABOVE CEILING.
S	05		+24" A.F.F.	2X4 J-BOX W/ 3/4" CONDUIT TO S-05 AND TO ABOVE CEILING.
S	06	J-BOX SECURITY SYSTEM	+48" A.F.F.	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR SECURITY SYSTEM KEYPAD.
S	07	J-BOX SECURITY SYSTEM	TOP OF JAMB	2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING FOR DOOR CONTACT.
S	08	"SOUND ALERT" DEVICE	CEILING	CONNECT TO SECURITY SYSTEM.
S	09	SECURITY STROBE LIGHT	CEILING	CONNECT TO SECURITY SYSTEM.
S	10	ALARM SIREN	ABV. CEILING	CONNECT TO SECURITY SYSTEM.
S	11	MOTION / HEAT DETECTOR	+78" A.F.F.	STUB 1/2" CONDUIT. D5835 OR D5820. MOUNT 90" A.F.F. FOR OFFICE

COMMUNICATIONS ROUGH-IN SCHEDULE

COMM. TYPE	COMM. #	EQUIPMENT ITEM	ELEVATION	REMARKS
T	03	VOICE LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ DOUBLE RJ-11 PHONE JACK & 1" CONDUIT TO ABOVE CEILING.
T	04	COMPUTER LINE PHONE JACK	+42" A.F.F.	2X4 J-BOX W/ RJ-11 PHONE JACK AND 1" CONDUIT TO ABOVE CEILING.
T	05	P.O.S. PHONE JACK	+24" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING.
TV	02	SECURITY CAMERA	+96" A.F.F.	MINI-DOME CAMERA MTD. TO BTM. OF MENU BOARD BULKHEAD. 2X4 J-BOX W/ (1) 1/2" CONDUIT TO ABOVE CEILING MTD. ON BACK SIDE OF BULKHEAD (6 TOTAL).
V	02	CREDIT CARD READER (VSAT)	+24" A.F.F.	2X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES.
S	01	J-BOX SECURITY SYSTEMS	+48" A.F.F.	4X4 J-BOX AT SECUIRTY SYSTEM CONTROL PANEL W/ (1) 2" CONDUIT TO S-02
S	02	J-BOX SECURITY SYSTEMS	+106" A.F.F.	4X4 J-BOX ADJACENT TO T-02 W/ (1) 2" CONDUIT TO S-01
S	12	J-BOX SECURITY DVR	+42" A.F.F.	2X4 J-BOX FOR SECURITY DVR
T	02	SECURITY SYSTEM PHONE JACK	+106" A.F.F.	2X4 J-BOX ADJACENT TO S-02 W/ RJ-31X PHONE JACK
V	01	ALTERNATE PAYMENT ROUTER BOX	+90" A.F.F.	4X4 J-BOX W/ 1/2" CONDUIT TO ABOVE CEILING FOR ETHERNET CABLES (DOUBLE JACK)
HM	10	OCB SWITCH	+52" A.F.F.	2X4 J-BOX W/ 1" CONDUIT TO ABOVE CEILING
IR	01	IRRIGATION TIMER	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES
O	01	(4) 1" DATA CONDUITS	CEILING	FROM MENU BOARD/SPEAKER POST TO ABOVE CEILING FOR OCB AND D/T COMM. SYST. SEE DETAIL 3/7.0
HM	04	OCB SWITCH	+80" A.F.F.	4X4 J-BOX W/ 1" CONDUIT TO IRRIGATION VALVES
T	01	TELEPHONE SERVICE BOX PER LOCAL TELEPHONE COMPANY. PROVIDE 24"X24"X3/4" PLYWOOD PANEL AT CLG. PROVIDE PULL STRING IN 2" CONDUIT.	+24" A.F.F.	PROVIDE (1) 25 PAIR TELEPHONE CABLE. ONLY (2) LINES TO BE USED. LINE ONE FOR VOICE/FAX. LINE (2) FOR COMPUTER MODEM.
TV	01	CLOSED CIRCUIT TELEVISION (CCTV)		CCTV INSTALLATION IS BASED ON THE CRIME INDEX AS DETERMINED BY YUM! LOSS PREVENTION MANAGER. THE STANDARD CCTV PACKAGE WILL CONSIST OF (1) CCTV MONITOR W/ WALL BRACKET AND (1) MINI DOME CAMERA MTD. ON BACK SIDE OF BULKHEAD (7 TOTAL)

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.: AJR
JOB NO.: 2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
COMMUNICATIONS PLAN

E5.0

PLOT DATE: 5/3/2022 8:44:29 AM

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,

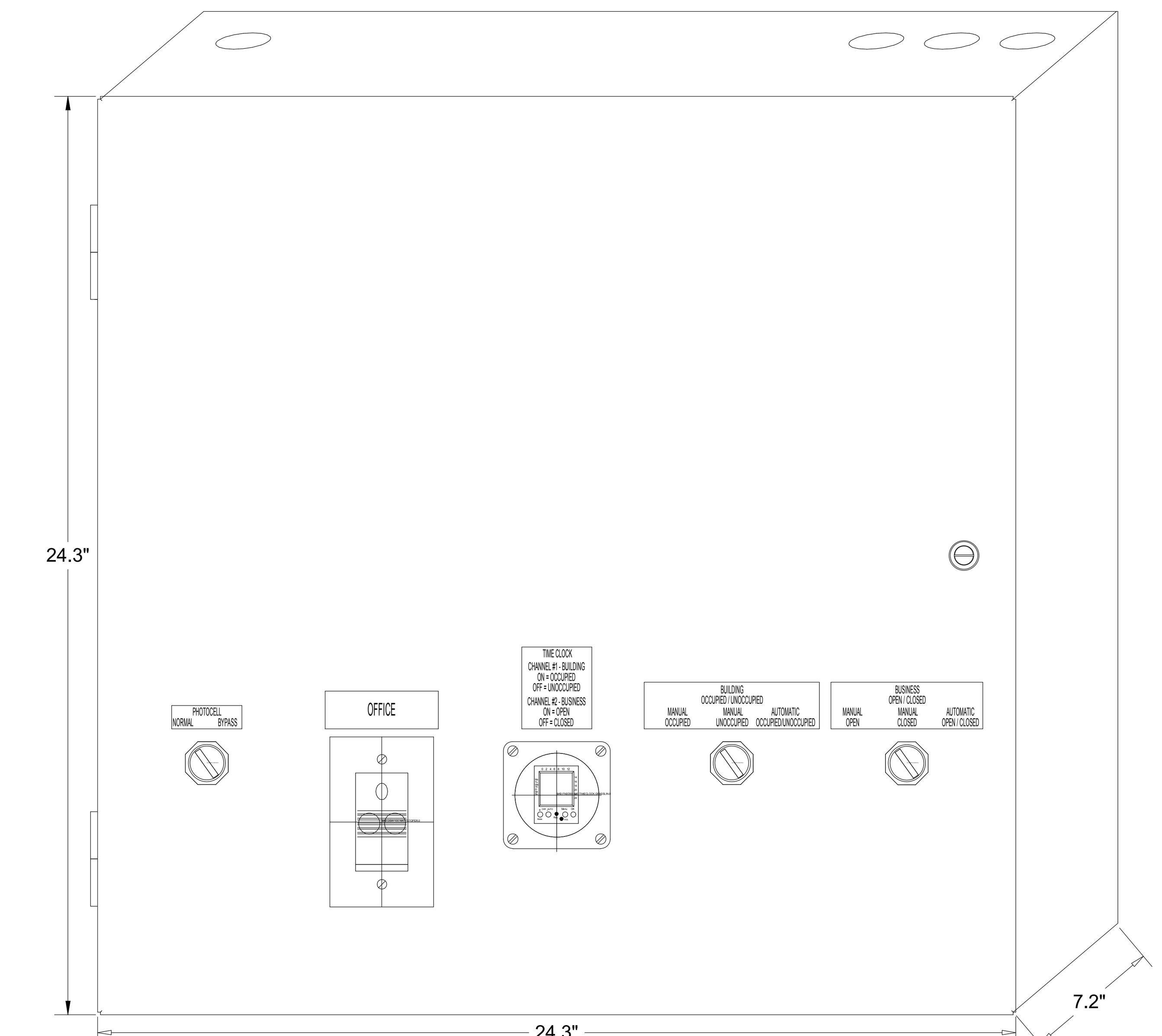
Manual CLOSED Mode

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

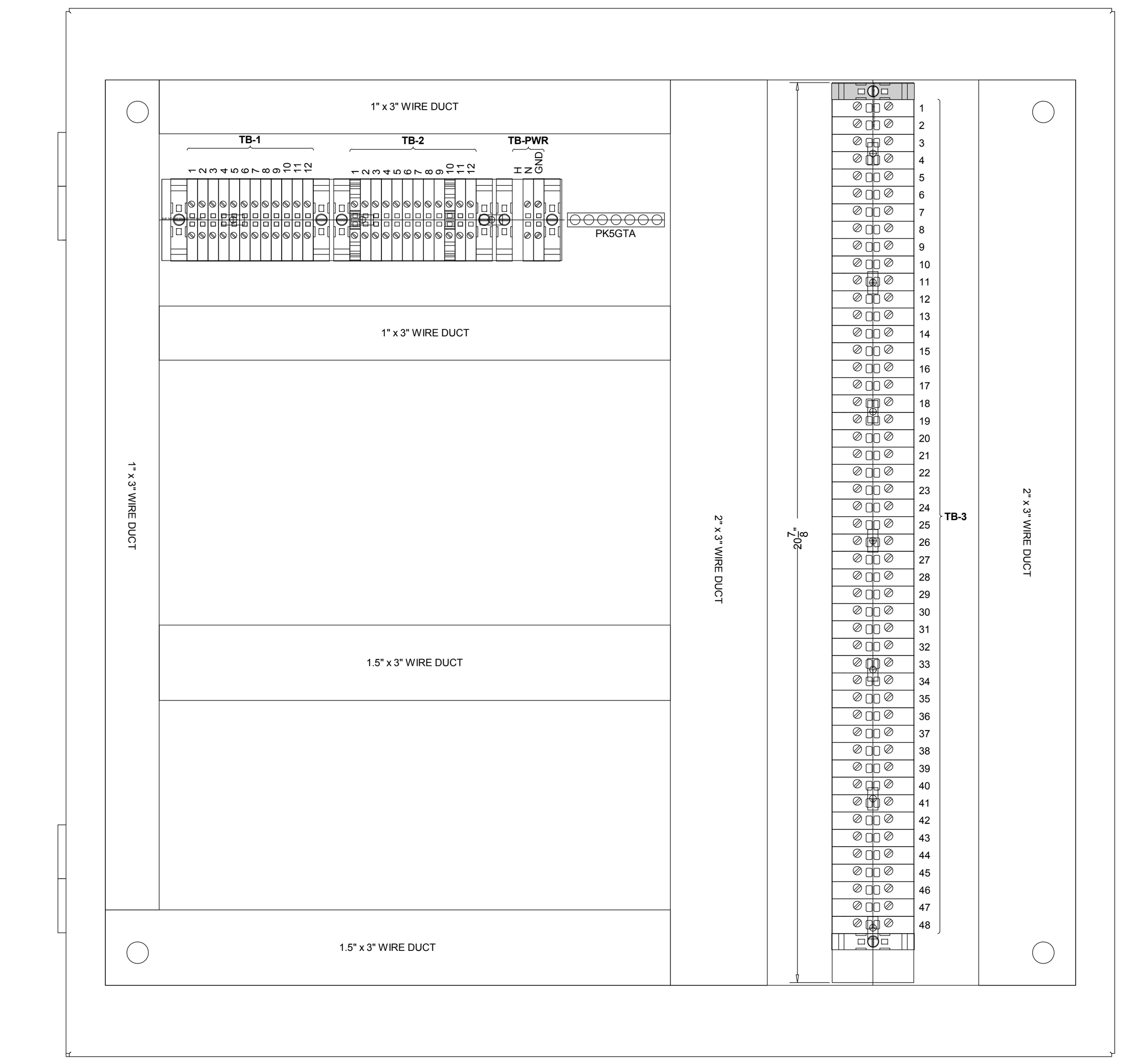
External Operations Not Part Of The Control Box Operation But Required To Be Installed

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 or TBANS control box. See sheet E-7.1.
- A remote smoke detector system featuring testing, annunciation and remote unit reset shall be installed in the manager's office for each RTU. The system shall be wired directly between each RTU and its respective testing, annunciation and reset device.

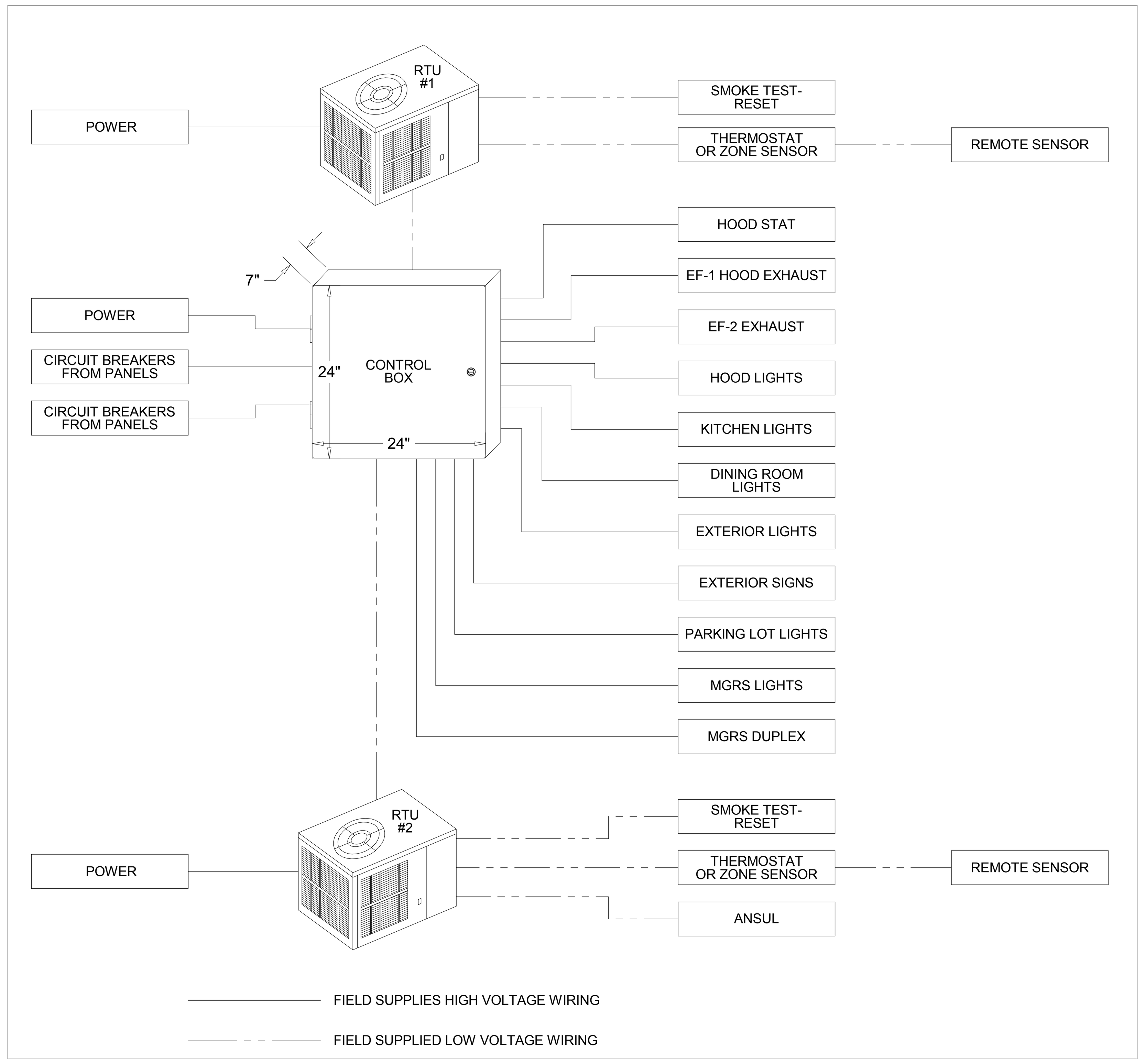


PANEL FRONT



SUBPANEL LAYOUT

TACO BELL COMPONENT RELATIONSHIP



FIELD WIRE BY OTHERS

THIS PANEL ENCLOSURE IS RATED TYPE 1.
TO PRESERVE RATING USE TYPE 1
CONDUIT ENTRY HUBS

This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.

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

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

FOR REFERENCE ONLY

	DATE	REMARKS
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2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0

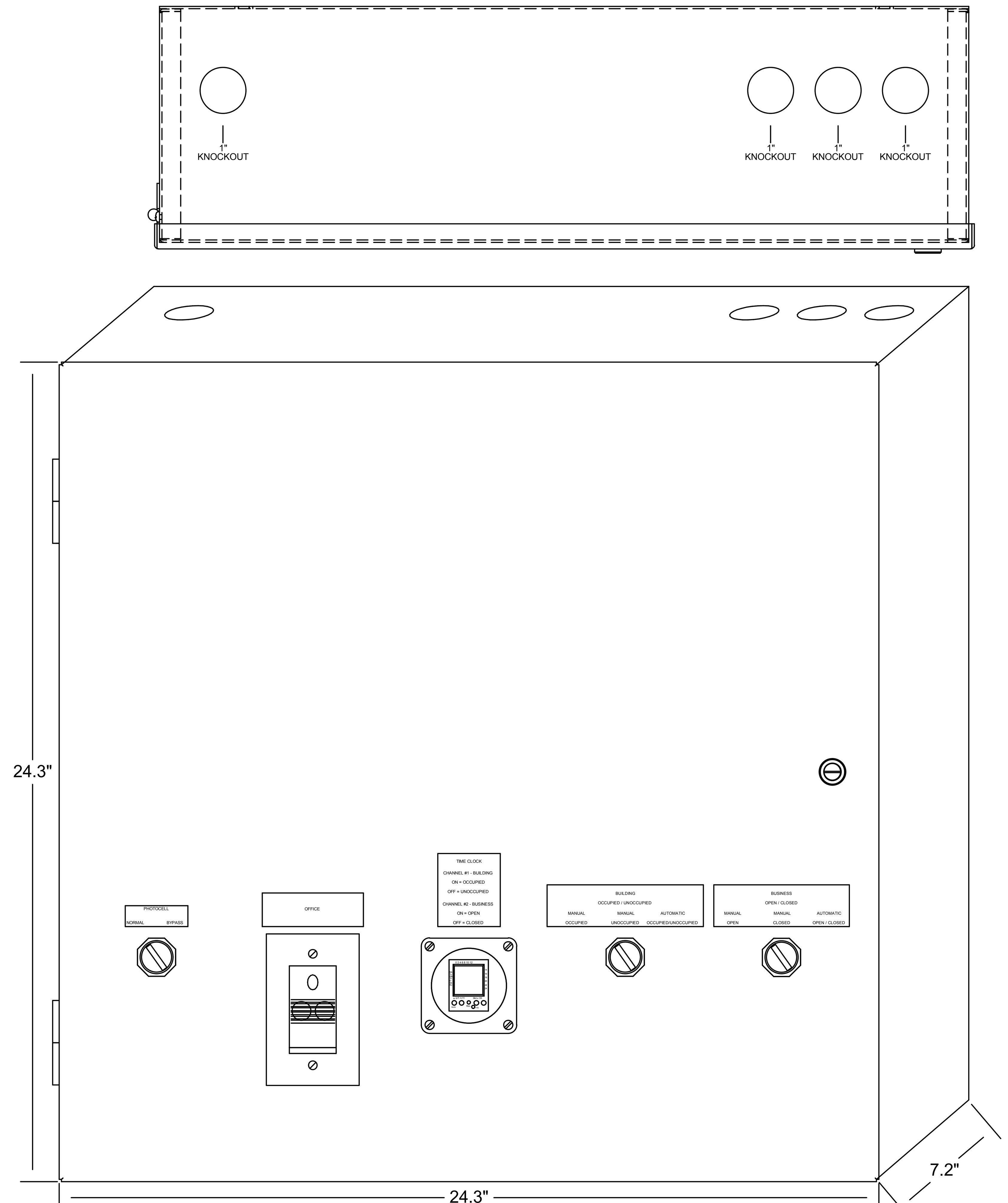
ELECTRICAL DETAILS - TBCCB

E6.0

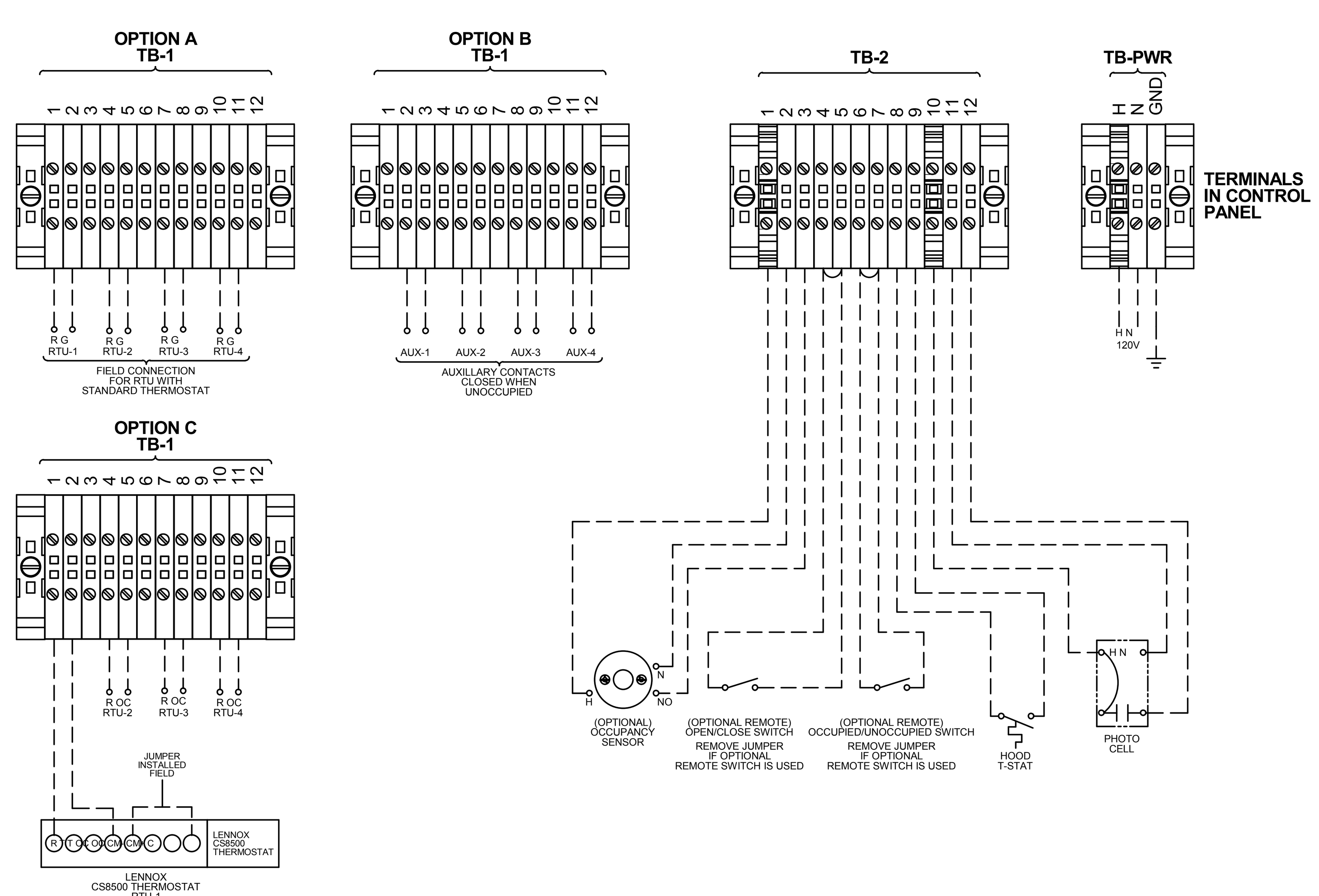
PLOT DATE: 5/3/2022 8:44:30 AM

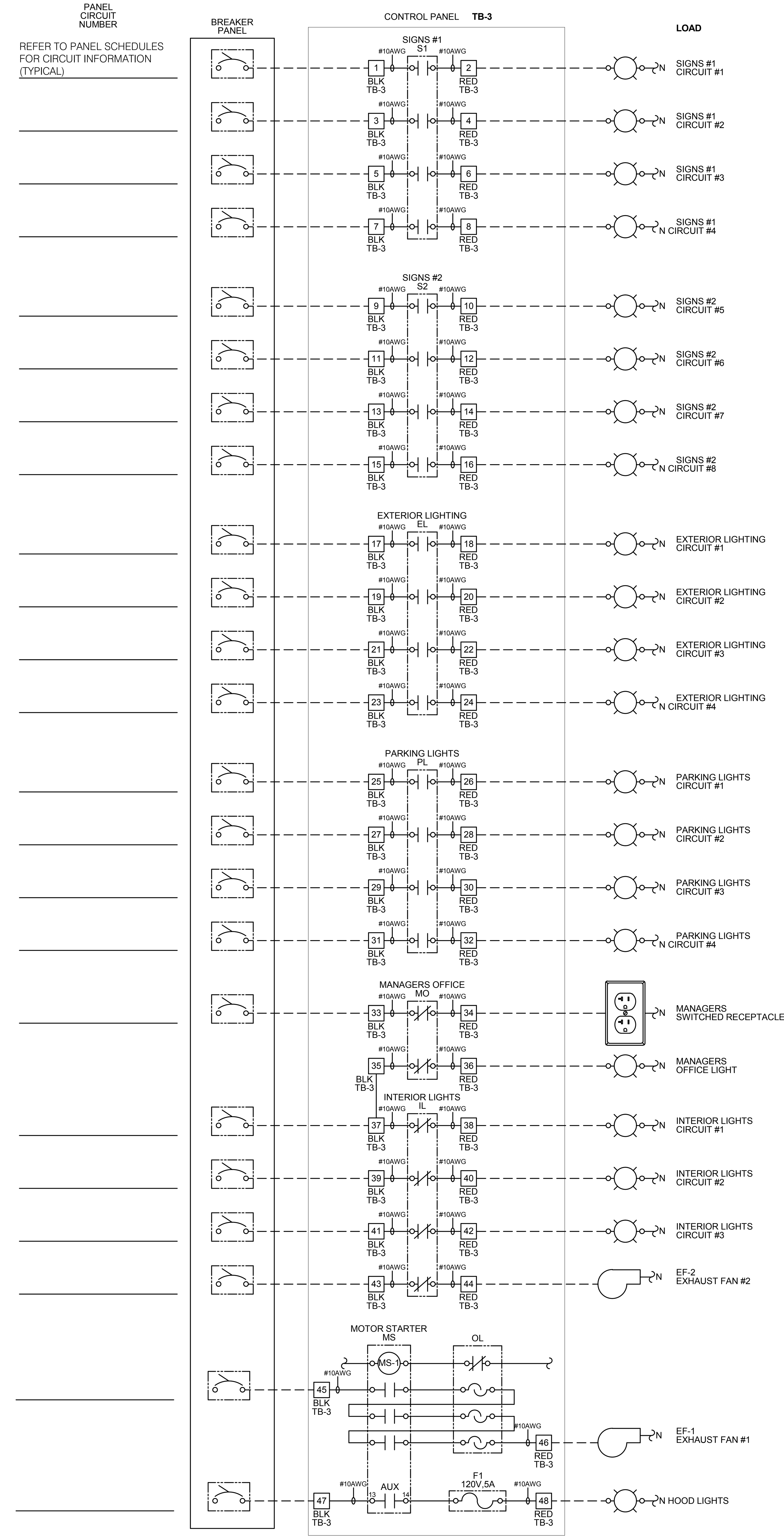
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

TBCCB-3-WOS



PANEL FRONT





— — — FIELD WIRE BY OTHERS

THIS PANEL ENCLOSURE IS RATED TYPE 1. TO PRESERVE RATING USE TYPE 1 CONDUIT ENTRY HUBS

This panel is Listed to applicable UL Standards and requirements by UL. Field wiring or field components are not Listed under this mark.

NOTES:

1. VISUAL VERIFICATION OF THIS INSTALLATION IS REQUIRED. SEE SHEET M5.0
2. PANEL IS SURFACE MOUNT
3. PROTECT INTERIOR FROM METAL SHAVINGS & DEBRIS

CONTROL BOX

TACO BELL'S SUPPLIER OF THE CONTROL BOX IS AIR CARE EXPERTS. UNLESS NOTED OTHERWISE, TBCCB-3-WOS CONTROL BOX TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

NOTE: TBCCB-3 WOS MAY BE INCLUDED IN THE LIGHTING PACKAGE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY.

TBCCB-3-WOS INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.

PRIMARY CONTACT: CHUCK MCCABE

PHONE: 949 770 2222

EMAIL: INFO@ACE-EMS.COM

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

FOR REFERENCE ONLY

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2021088.17

TACO BELL

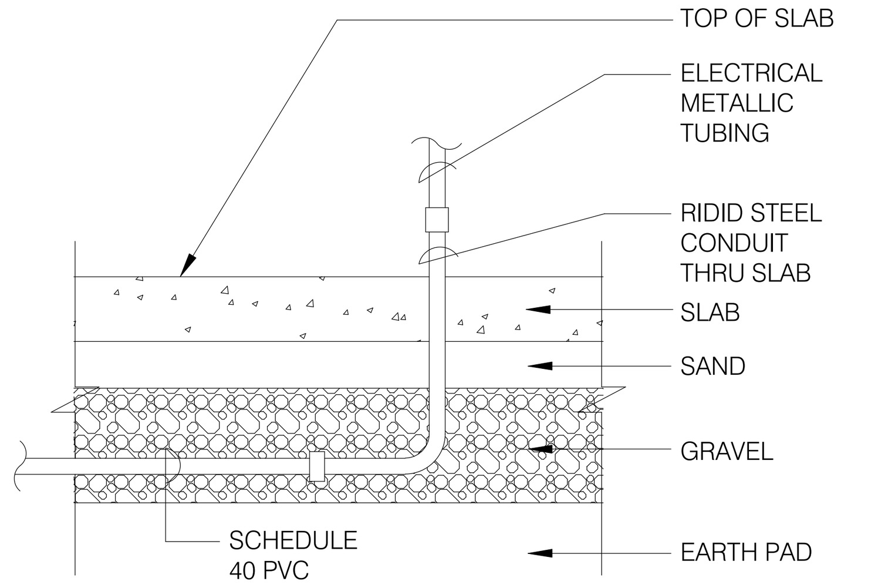
5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0

ELECTRICAL DETAILS - TBCCB

E6.1

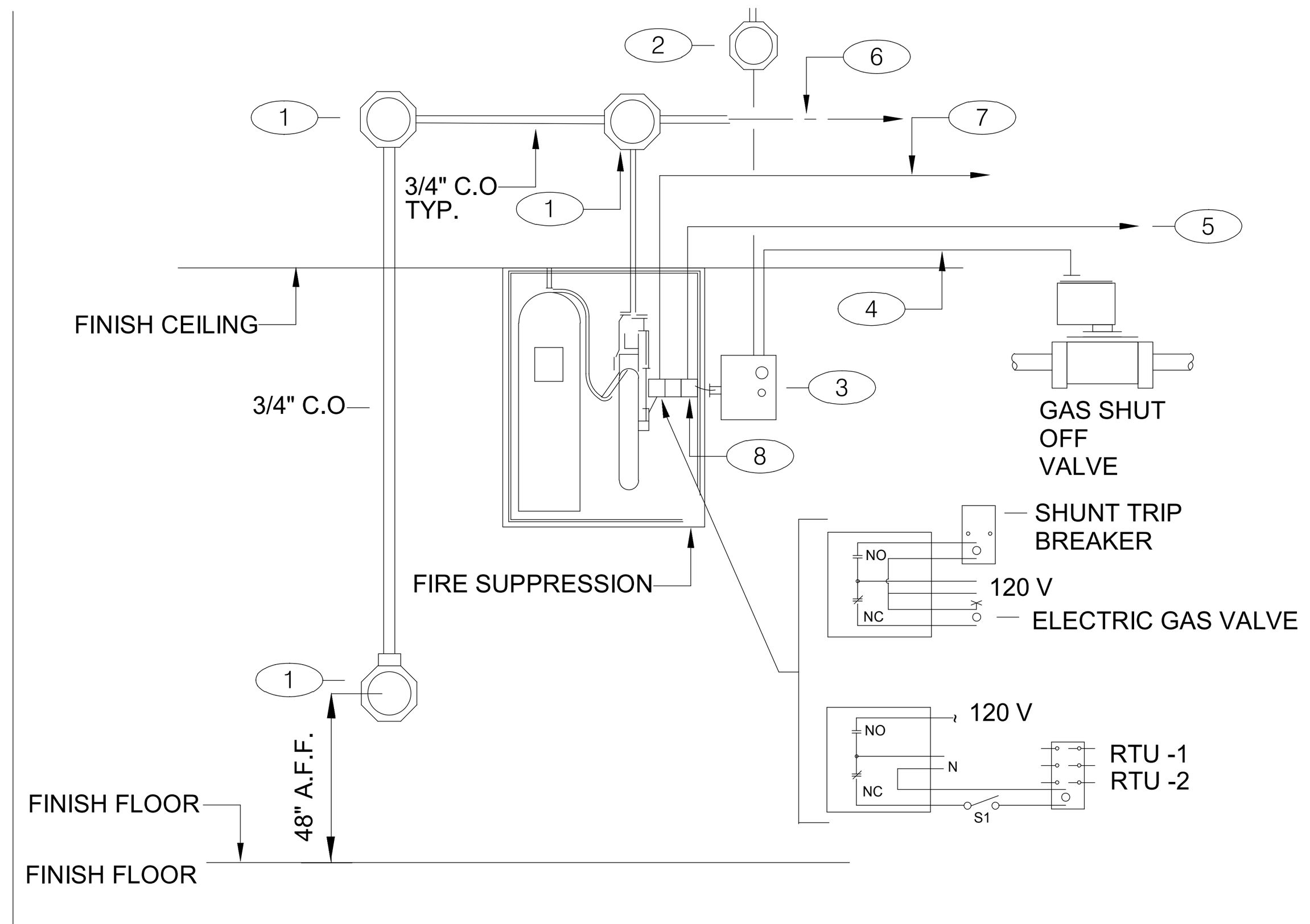
PLOT DATE: 5/3/2022 8:44:31 AM



NOTE: GREEN GROUND WIRE REQUIRED IN ALL CONDUITS, SIZED PER N.E.C. REQUIREMENTS.

YES001

UNDER SLAB CONDUIT N.T.S. 7



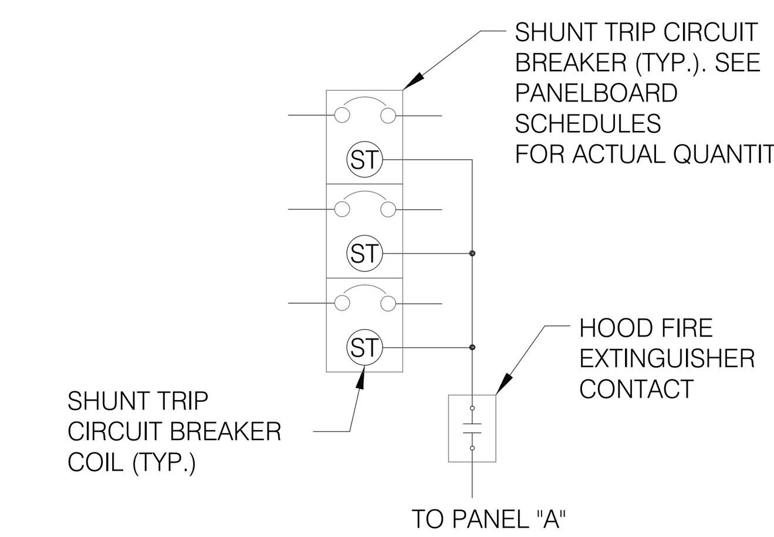
GENERAL NOTES:

1. REFER TO SHEET M3.0

KEY NOTES:

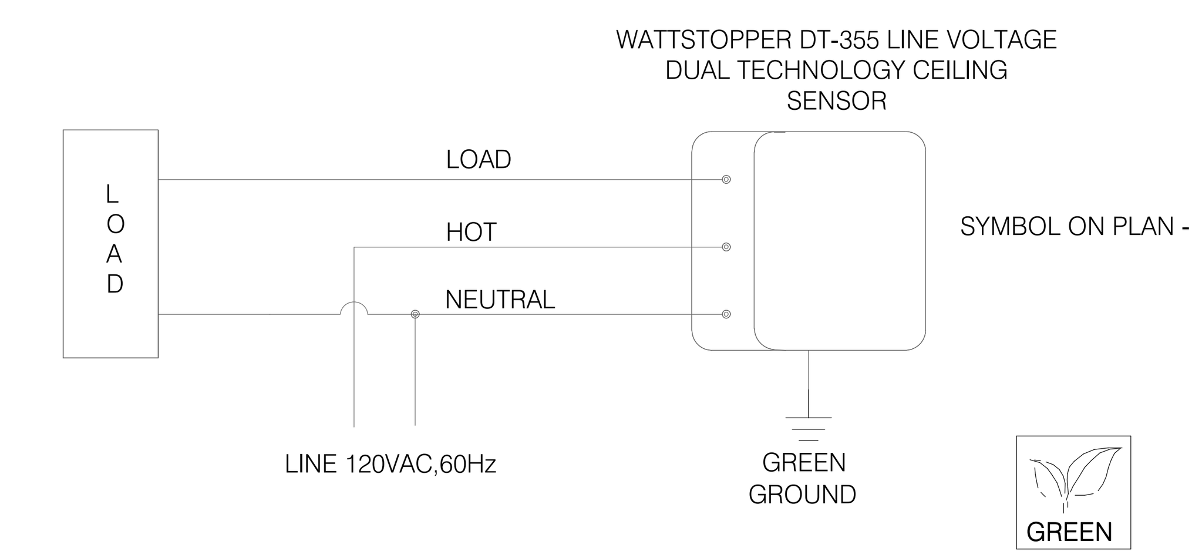
1. PROVIDE 4" OCTAGONAL J-BOX.
2. PROVIDE J-BOX , AND 110 V CIRCUIT. REFER TO EQUIPMENT SCHEDULE/FLOOR PLAN FOR CIRCUIT ASSIGNMENT. CONNECT TO TBANS. SEE SHEET 7.1.
3. TBANS INSTALLED BY ELECTRICAL CONTRACTOR.
4. PROVIDE CONNECTIONS TO TBANS BOX FOR HOOD SHUTDOWN. SEE SHEET E7.1 FOR TBANS WIRING DIAGRAM.
5. PROVIDE 1/2" C WITH CONTROL CABLE. MAKE INTERCONNECTIONS TO EXHAUST & SUPPLY FAN INTERFACE THROUGH MICROSWITCH ON HOOD.
6. CABLE AND CONNECTION TO FUSIBLE LINKS AT EXHAUST HOOD BY K.E.C.
7. PROVIDE INTERCONNECTION BETWEEN FIRE SUPPRESSION MICROSWITCH AND TBANS. SEE SHEET E7.1.
8. FIRE SUPPRESSION SYSTEM TO INCLUDE TWO MICROSWITCHES. EACH MICROSWITCH SHALL HAVE A COMMON, NORMALLY OPEN AND NORMALLY CLOSED POLE.

FIRE SUPPRESSION SYSTEM WIRING DIAGRAM N.T.S. 4



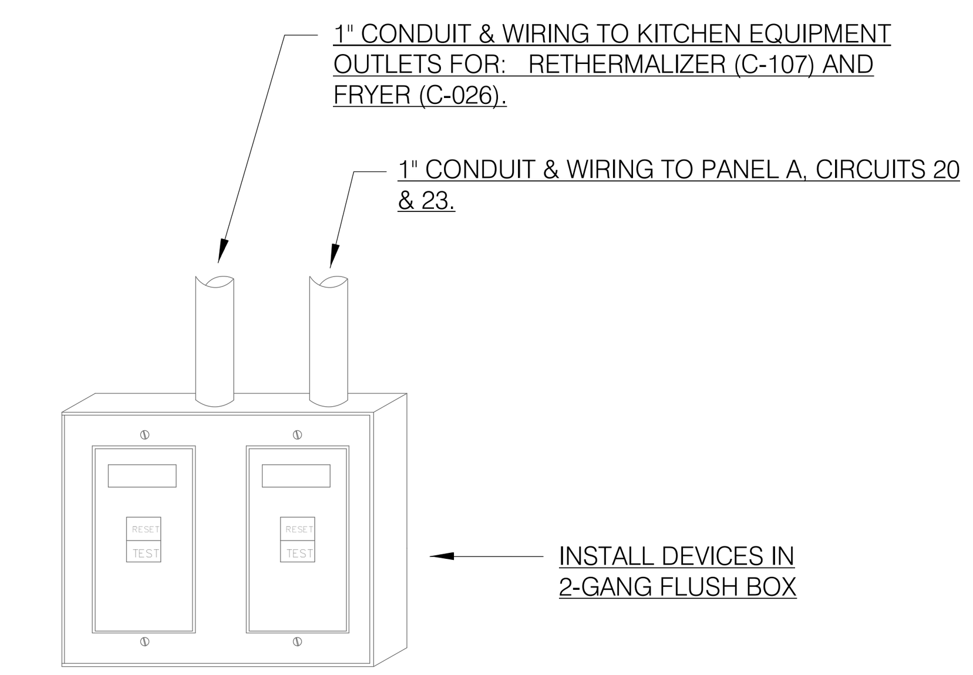
SEQUENCE OF OPERATION:
UPON ACTIVATION OF ANY HOOD FIRE SUPPRESSION SYSTEM RELAY, A RELAY IN THAT FIRE SUPPRESSION SYSTEM SHALL CAUSE ALL SHUNT TRIP CIRCUIT BREAKERS TO OPERATE, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD. EXHAUST FANS SHALL NOT BE AFFECTED BY THIS ACTION AND SHALL CONTINUE TO BE CONTROLLED AS INDICATED IN THE SEQUENCE OF OPERATIONS INDICATED ON CONTROLS SHEETS E6.0 AND E6.1

SHUNT TRIP DETAIL N.T.S. 1



CEILING OCCUPANCY SENSOR WIRING DIAGRAM N.T.S. 2

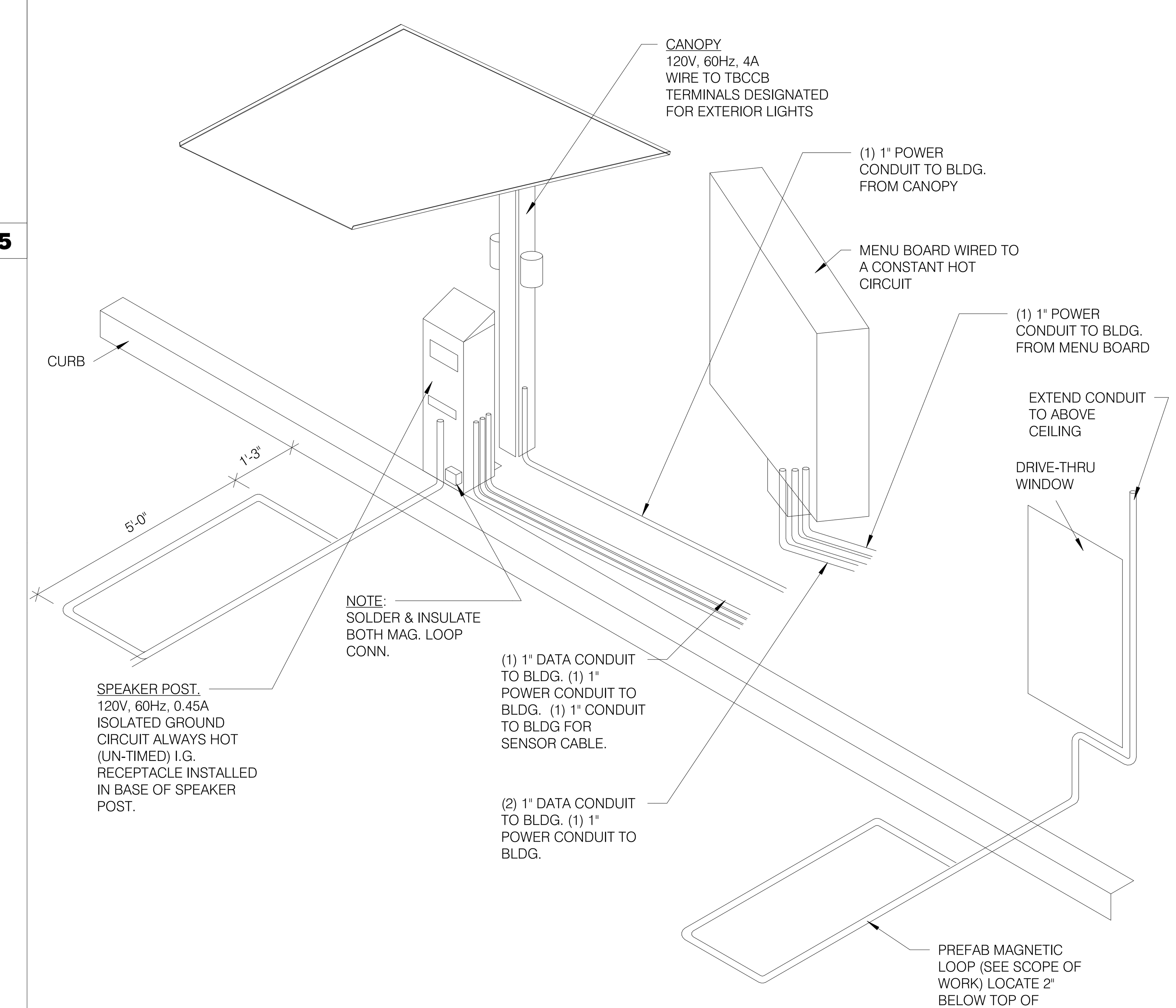
NOT USED N.T.S. 8



NOTES:

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

DEAD FRONT GFCI DEVICE DETAIL N.T.S. 5



YES006A

NOT USED N.T.S. 9

NOT USED N.T.S. 6

DRIVE-THRU COMMUNICATIONS ISOMETRIC N.T.S. 3

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE:	01.25.22
BUILDING TYPE:	END. MED20
PLAN VERSION:	MARCH 2021
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DRAWN BY.:	AJR
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
ELECTRICAL DETAILS

E7.0

PLOT DATE: 5/3/2022 8:44:33 AM

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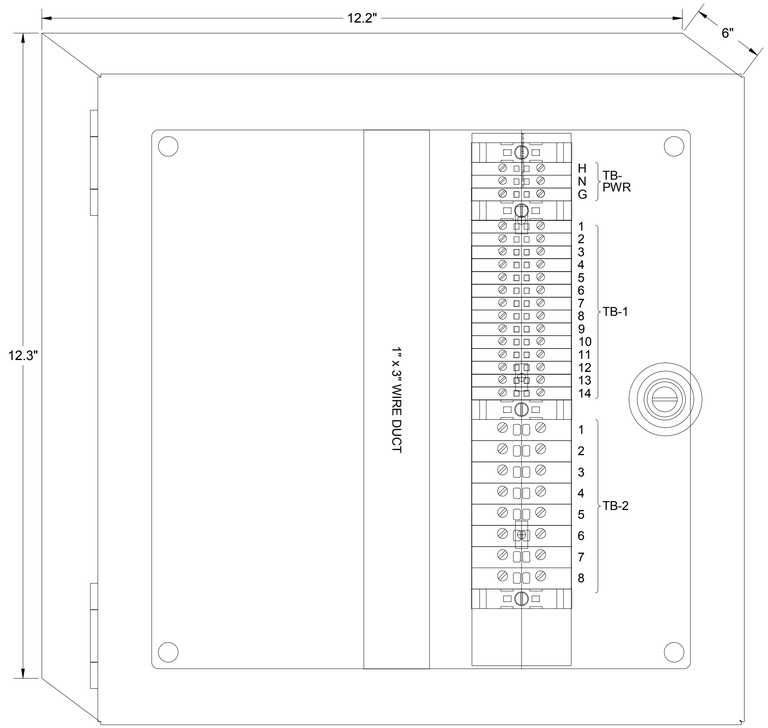
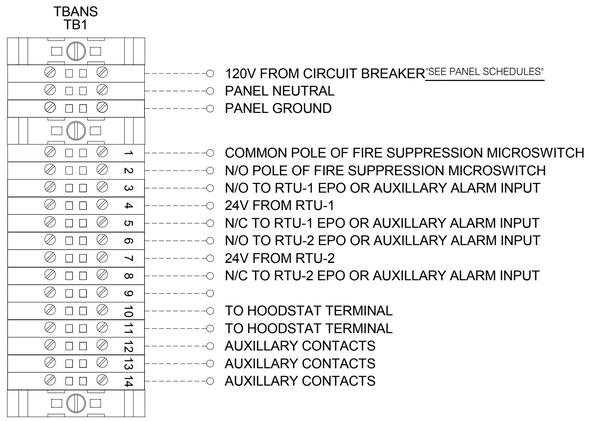


1 TBANS PANEL DIMENSIONS NTS

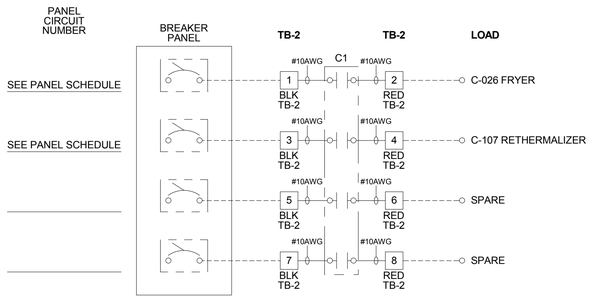
SEQUENCE OF OPERATION:
ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM RELAY SHALL CAUSE TBANS TO DE-ENERGIZE LOAD, THUS REMOVING POWER FROM ALL DEVICES CONNECTED TO EQUIPMENT LOCATED UNDER THE GREASE HOOD.

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 INCLUDES ALL WIRING AND COMPONENTS SHOWN FACTORY INSTALLED WITHIN THE BOX.
PRIMARY CONTACT: CHUCK MCCABE
PHONE: 949 770 2222
EMAIL: INFO@ACE-EMS.COM

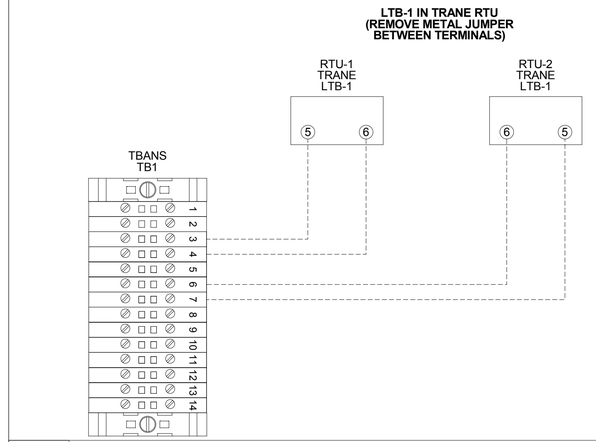
TACO BELL REQUIRES VISUAL CERTIFICATION OF THIS INSTALLATION
SEE SHEET M5.0
CONTACT CERTIFY@ACE-BCX.COM OR (949)-770-2222



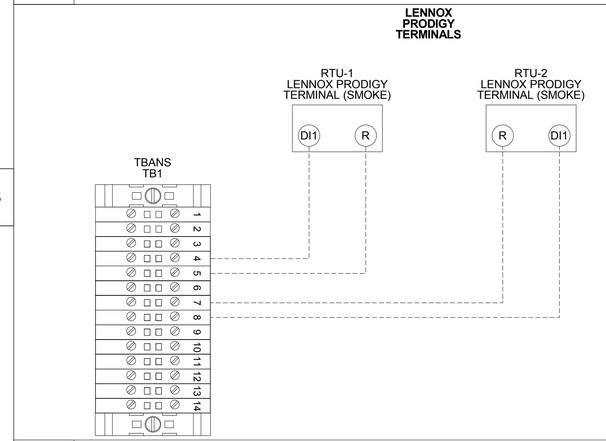
2 TBANS FIELD CONNECTIONS - VARIOUS NTS



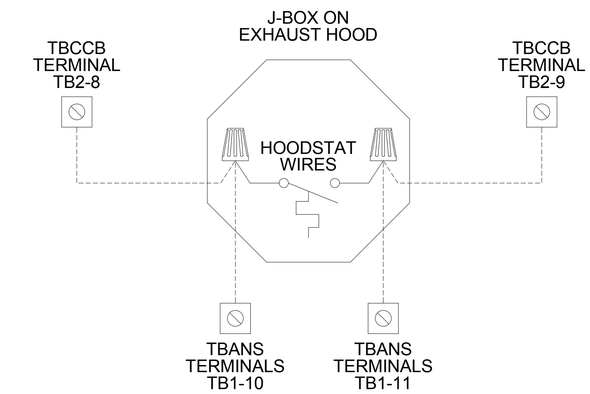
3 TBANS FIELD CONNECTIONS - APPLIANCES NTS



6 TBANS TO TRANE RTU SHUTDOWN NTS



5 TBANS TO LENNOX PRODIGY SHUTDOWN NTS



4 TBANS TO HOODSTAT TO TBCCB NTS

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

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BRAND DESIGNER:	DICKSON
SITE NUMBER:	314877
STORE NUMBER:	455564
PA/PM:	JW
DRAWN BY.:	AJR
JOB NO.:	2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
ELECTRICAL DETAILS

E7.1

PLOT DATE: 5/3/2022 8:44:34 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 Digital Menu Board & Optional Digital Preview Board	Everbrite		-	CM (Company), CM or DIS (Franchise)	Manufacturer	GC - Foundation and Conduit Sign Vendor DMB Ins	X
		Stratacache						
	Interior Menuboard	VGS			DIS	Manufacturer	GC	
	Digital Menu Board	Stratacache	-	-				
10430	Signage (Bldg Signs, Road Signs, Directional Signs)	Cummings Signs	VARIES	VARIES	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
		Everbrite (Preferred Supplier)	VARIES	VARIES				
		AGI						
10536	Canopies	Cummings Signs	VARIES	VARIES	CM (Company), CM or DIS (Franchise)	Manufacturer	Manufacturer (Local Installer)	X
		Everbrite (Preferred Supplier)	VARIES	VARIES				
		AGI						
10810	Restroom Accessories	Accuserv	VARIES	F-452 (if indicated in plan set), B-241, B-265, B-275, B-290 (where occurs), B-291 (where occurs), B-300, B-305, B-405, B-410	DIS	DIS	GC	
11020-1	Safe	Brinks	Tidel Series 4 (duel single note validator, standard side vault)	F-174	CM	BRINKS	BRINKS	
11020-2	Security System	Tyco	-	-	CM	Manufacturer	GC	X
11030-1	Drive-thru Window	Quikserv	QKSRVSC4030BR	B-140	RSCS	Manufacturer	GC	
11030-3	Drive-thru Clearance Bar	Cummings Signs	-	-	CM	Manufacturer	GC	
		Everbrite (Preferred Supplier)	-	-				
		AGI	-	-				
11030-4	Drive-thru Sensor Loops	ERC Parts Inc.	WX8171	-	Manufacturer	Manufacturer	GC	
11100-3	P.O.S.	IBM	-	VARIES	TB / IT	Manufacturer	SSP	X
		NCR	-	VARIES				
		PAR	-	VARIES				
11100-4	Credit Card Payment System	Hughes Network Systems	-	-	TB / IT	Manufacturer	SSP	
11300-1	Order Confirmation Board (OCB)	Delphi Display Systems	P6YUC5STDUSVV1S; P6YOCSSTDUSEN1S	-	DIS	DIS	GC (see Scope of Work notes)	
		Hyperactive	TDMHX2H01TCB;TDMHX1H26	L-090				
		Texas Digital	AVNGE60	L-095				
11300-2	Drive-thru Speaker & Microphone	HME	C400005HS3TB; C11422TB	U-011; S-204	DIS	Manufacturer	GC	
		3M Food Services Trad Dept	78691149153; G55HSSINGLE	-				
11300-4	DT Canopy	Cummings Signs		V-350	CM, Franchisee or DIS on behalf of Franchisee	Manufacturer	GC (see Scope of Work notes)	X
		Everbrite (Preferred Supplier)						
		AGI						
11400-1	Kitchen Equipment	N. Wasserstrom (Franchise only)	VARIES	VARIES	DIS	DIS	GC (see General Comments)	X
		RSCS (Preferred Supplier)	VARIES	VARIES				
11400-5	GTO with EVO Production Line	Delfield	VARIES	VARIES	DIS	DIS	GC / Manufacturer (Local Installer)	X
		Duke	VARIES	VARIES				
		Carter Hoffman (EvO cabinets)	VARIES	VARIES				
11405-3	Kitchen Shelving / Workstations	I.S.S.	VARIES	VARIES	DIS	DIS	GC	
11405-4	Walk-In Cooler / Freezer (Panelized)	I.C.S.	VARIES	VARIES	GC	Manufacturer	GC or Manufacturer (up to CM's discretion)	X
		Norlake	VARIES	VARIES				
11425	Exhaust Hoods	Stratovent (preferred supplier)	VARIES	VARIES	DIS	DIS	GC	X
		Gaylord Industries (Boiler hood)	VARIES	VARIES				
		Randell (alternate supplier)	VARIES	VARIES				
11430-2	Drink Dispensers / Line Sets	Pepsi	-	-	RSCS	Pepsi	Pepsi (Local installer)	
11435-6	Ice Machines	Manitowoc Ice Inc & Hoshisaki	Manitowac SY-1474C	S-513	DIS	Manufacturer	Manufacturer (Local Installer)	
11680	Office Computer (Taco System)	En Pointe Global Services	VARIES	F-040, F-060	TB / IT	SSP	SSP	
12100-1	Artwork	GFX	VARIES	-	DIS	DIS	GC	
		VGS						
		Creative Pallete						
12400-5	Décor	Custom Seating (Company Supplier, base décor)	VARIES	-	DIS	DIS	GC	X
		FCI (Company Supplier, base décor)	VARIES	-				
		IDX	VARIES	-				
12430	Fruitista Machine	Equipment Delivery, Install and Activation	VARIES	VARIES	DIS - Equipment; GC - Installation & Setup (notify vendor 2 weeks from install date)	DIS	Service Agents - ICEE (East) or RepTec (West)	
		FBD Equipment Manufacturer	VARIES	VARIES				
		Cornelius	VARIES	VARIES				
		Taco Bell Engineering	VARIES	VARIES				
12440	Iced Tea	Pepsi	E56150000	S-546	DIS	Supplier	GC / Supplier	
13200	CO2 - Bulk	MVE (bulk tank)	VARIES	S-580	DIS	DIS	Manufacturer (Local Installer)	
		NU CO2 (CO2 and service)	VARIES	S-580				
13700-4	CCTV	MARTCO	-	-	RSCS	MARTCO	MARTCO	X
13800-1	Energy/Building Management System	Air Care Experts	TBCCB-Varies	-	DIS	DIS	GC	
		Air Care Experts	TBCCB-Varies	-	DIS	DIS	GC	
13800-2	Hood Shutdown System	Air Care Experts	TBANS	-	Contractor	Air Care	GC	
13900-1	Fire Suppression System	Ansul	-	-	GC	GC	GC (Local Installer)	
15410	Hand Sinks	Aero	HS-Mod	N-053	DIS	DIS	GC	
15470-5	Water Filter	Shurflo	WB6-M3-22-003	-	DIS	Manufacturer	GC (see Vendor Scope - Pepsi Drink System)	
15480-3	Water Heater	AO Smith (standard)	AO Smith BTH-120 (standard)	B-215	RSCS	RSCS	GC	
		Bradford White (alternate)	-	B-215				
	Water softener	-	-	-	RSCS	RSCS	GC	
15500-1	HVAC - Test and Balance	-	-	-	Determined by CM or RCM; Approved options - GC CM/RCM	Determine by CM or RCM; Approved options - GC CM/RCM	Determined by GC / CM / RCM	X
		Melink Corp/	-	-				
		Air Care Experts	-	-				
15500-2	Commissioning	Air Care Experts	-	-				
15500-3	Visual Verification	Air Care Experts	-	-	GC	Air Care Experts	GC	
15700-1	HVAC	Trane (Franchisee Only)	VARIES	-	GC	Manufacturer	GC	X
		Lennox (Company and Franchisee Stores)	VARIES	-				
		York international (Franchisee Only)	VARIES	-				
16300-1	Switchgear - Franchisee	Accuserv	Square-D and Cutler Hammer	VARIES	DIS	DIS	GC	X
		Capital Lighting	Square-D and Cutler Hammer	VARIES	DIS	DIS	GC	
16300-2	Switchgear - Company	Capital Lighting	Square-D and Cutler Hammer	VARIES	GC or RSCS (confirm with CM at time of bid)	GC	GC	X
		Accuserv	Square-D and Cutler Hammer	VARIES	GC or RSCS (confirm with CM at time of bid)	GC	GC	
16500	Light Fixtures - Interior and Building	Capital Lighting	VARIES	-	DIS	DIS	GC	X
		Accuserv (all lighting except BOH & restrooms)	VARIES	-				
16520	Light Fixtures - Site	Capital Lighting	VARIES	-	DIS	DIS	GC	
		Accuserv	VARIES	-	DIS	DIS	GC	
16720	Telephone Communications	YUM! Telecom (Company stores)	-	-	TB	Manufacturer	Manufacturer (Local Installer)	X
		By owner through local phone service provider (franchise)	-	-	Franchisee	Manufacturer	Manufacturer (Local Installer)	
16820-3	Music System	Mood Media	-	F-131	TB	Manufacturer	Manufacturer (Local Installer)	X
	Coffee Brewer	Bunn	42300.0008	S-547	RSCS	RSCS	GC	
	Floor and Wall Tile	Creative Materials	-	-	GC	Manufacturer	GC	X

Mark S. Salopek, LLC

3638 WEST GALLOWAY DRIVE
RICHFIELD, OH 44286
330.572.2112 FAX: 330.572.2102

	DATE	REMARKS
	03.02.22	Issued for Permit
	05.05.22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: SM
DRAWN BY.: RS
JOB NO.: 2021088.17

TACO BELL

5201 HAMLIN GROVES TRAIL
WINTER GARDEN, FL 34787

ENDEAVOR 2.0
SCOPE OF WORK

SW1.0

PLOT DATE: 5/3/2022 8:10:38 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

☐ = 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)
		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, INC.
LIC. # - 30920
520 S. MAIN STREET, SUIT 2531
AKRON, OH 44311
330.572.2100 FAX: 330.572.2102

	DATE	REMARKS
1	04/28/22	NTP COMMENTS
2	05/05/22	Issued for Bid

CONTRACT DATE: 01.25.22
BUILDING TYPE: END. MED20
PLAN VERSION: MARCH 2021
BRAND DESIGNER: DICKSON
SITE NUMBER: 314877
STORE NUMBER: 455564
PA/PM: JW
DRAWN BY.:
JOB NO.: 2021088.17

TACO BELL

5201 Hamlin Groves Trail
Winter Garden, FL 34787

ENDEAVOR 2.0
INSTALLATION START-UP PRE-COMM CHECK LIST

SW2.0

PLOT DATE: 5/3/2022 8:46:09 AM

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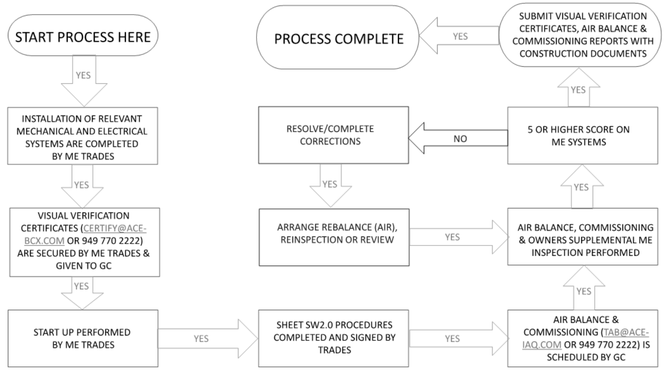
CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT

MECHANICAL – ELECTRICAL (ME) BALANCING & COMMISSIONING SEQUENCE & PROCEDURE



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Winter Garden, FL 34787

ENDEAVOR 2.0
BALANCING AND COMISSIONING SEQUENCE

SW2.1

PLOT DATE: 5/3/2022 8:46:10 AM

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