

PROJECT SUMMARY

THE SCOPE OF WORK PROPOSED UNDER THIS PERMIT INCLUDES ALL CONSTRUCTION NECESSARY FOR THE SHELL CONSTRUCTION OF A BUILDING (1,394 SQ.FT. - ENCLOSED) FOR BUSINESS OCCUPANCY. PLANS FOR CONSTRUCTION INCLUDE ALL STRUCTURAL COMPONENTS (EXCEPT FLOOR SLAB) AND FINISHES THAT COMPRISE THE BUILDING ENVELOPE. PLANS ALSO INCLUDE THE NECESSARY UTILITY STUB-INS FOR SANITARY SEWER AND DOMESTIC WATER AND ELECTRICAL POWER. IT IS ANTICIPATED THAT THE STARBUCKS INTERIOR FINISH-OUT WILL BE CONSTRUCTED SIMULTANEOUSLY, UNDER SEPARATE PERMIT. SAID PLANS AND CONSTRUCTION WILL INCLUDE PERMANENT POWER, EXIT/EMERGENCY LIGHTING, ETC.

UNDER THE TERMS OF THE LEASE WITH STARBUCKS, THE LANDLORD WILL BE RESPONSIBLE FOR ADDITIONAL WORK INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF ROOFTOP HVAC UNITS. IN ORDER TO FULLY AND ACCURATELY DOCUMENT SUCH WORK, PLANS FOR STARBUCKS INTERIOR FINISH-OUT MUST BE COMPLETED (CURRENTLY IN PRODUCTION BY OTHERS). UPON RECEIPT OF TENANT PLANS, REVISIONS WILL BE MADE TO THESE SHELL DOCUMENTS WHICH WILL FULLY DOCUMENT ALL LANDLORD RESPONSIBILITIES. ACCORDINGLY, REVISIONS WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. IT IS THE LANDLORD'S INTENT TO BEGIN THE PROCESS FOR REVIEW AND PERMIT OF THE SHELL DOCUMENTS PROVIDED HEREIN IN ORDER TO MEET OBLIGATIONS FOR DELIVERY OF THE BUILDING.

THE ABOVE-MENTIONED CONSTRUCTION DRAWINGS FOR STARBUCKS INTERIOR FINISH-OUT SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL AND PERMIT PRIOR TO CONSTRUCTION (BY OTHERS).

FLORIDA PRODUCT DATA INDEX

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	FL APPROVAL NO.	DATE APPROVED
PANEL WALLS	ALUM STOREFRONT	YKK AP AMERICA	FL-23062	04/19/22
PANEL WALLS	EXTERIOR INSULATION AND FINISH SYSTEM	DRYVIT SYSTEMS, INC.	FL-300841	02/21/22
PANEL WALLS	SOING	NCHFA CORPORATION	FL-28751	12/19/21
EXTERIOR DOORS	COMMERCIAL STEEL DOORS	CECO DOOR PRODUCTS	FL-453-PR	12/19/21
ROOFING	SINGLE-PLY ROOFING SYSTEMS (TPO)	FREESTONE BLDG. PRODUCTS CO.	FL-10264-RIS	12/16/20
WINDOWS	PASS THRU	READY ACCESS	FL-51021	10/19/20
STRUCTURAL COMPONENT	PRODUCT INTRODUCED AS A RESULT OF NEW TECH	CAST-CRETE USA, INC.	FL-6894	08/12/21

THE PRODUCTS LISTED ABOVE ARE THE BASIS OF DESIGN

THE CONTRACTOR SHALL MAKE AVAILABLE TO THE BUILDING INSPECTOR DOCUMENTATION NECESSARY TO VERIFY THAT ALL COMPONENTS REQUIRING PRODUCT APPROVAL PER FS 559.842 ARE IN COMPLIANCE WITH PRODUCT APPROVAL INSTALLATION REQUIREMENTS



STARBUCKS SHELL CONSTRUCTION

9030 W. IRLO BRONSON MEMORIAL HIGHWAY
KISSIMMEE, FL



3336 Grand Blvd, Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
Fax 727. 815. 3337



TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

GUY F. FABER
FL License No. AR0015323

PROJECT CODE DATA

APPLICABLE CODES

- FLORIDA BUILDING CODE-BUILDING (8TH EDITION)
- FLORIDA BUILDING CODE-EXISTING (8TH EDITION)
- FLORIDA BUILDING CODE-ACCESSIBILITY (8TH EDITION)
- FLORIDA BUILDING CODE-ENERGY CONSERVATION (8TH EDITION)
- FLORIDA BUILDING CODE-FUEL GAS (8TH EDITION)
- FLORIDA BUILDING CODE-MECHANICAL (8TH EDITION)
- FLORIDA BUILDING CODE-PLUMBING (8TH EDITION)
- NATIONAL ELECTRIC CODE (2020 EDITION)
- FLORIDA FIRE PREVENTION CODE (8TH EDITION)

BUILDING STATISTICS

OCCUPANCY	GROUP (B) BUSINESS
CONSTRUCTION TYPE	TYPE VB, UNPROTECTED
FIRE SPRINKLERED	NO
FIRE ALARM	NO
ALLOWABLE AREA	9,000 SQ.FT. PER FLOOR
PROPOSED AREA	1,394 SQ.FT.
NO. OF STORIES	2 ALLOWED / 1 PROPOSED
PROPOSED HEIGHT	40'-0" ALLOWED / 19'-4" (TOP OF HIGHEST PARAPET)
OCCUPANT LOAD	OCCUPANT LOAD = 14
MAXIMUM TRAVEL DISTANCE	200' (UNSPRINKLERED)
MAX. DEAD END CORRIDOR	20' (UNSPRINKLERED)
EGRESS WIDTH REQUIRED	2" PER OCCUPANT = 2" X 14 = 28"
EGRESS WIDTH PROVIDED	42"
MINIMUM CORRIDOR WIDTH	44" REQUIRED, NOT APPLICABLE, CORRIDORS TO BE PROVIDED BY TENANT UNDER SEPARATE PERMIT
MINIMUM STAIR WIDTH	NOT APPLICABLE, SINGLE STORY BUILDING PROPOSED
FIRE RATINGS-TABLE 601	PRIMARY STRUCT. FRAMEWORK 0 BEARING WALLS 0 EXTERIOR WALLS AND OPENINGS (SEE BELOW) FIRE DIVISION WALLS N/A INTERIOR BEARING WALLS 0 FLOOR CONSTRUCTION N/A ROOF CONSTRUCTION 0

TABLE 602 - FIRE RESISTANCE RATINGS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

SEPARATION DISTANCE	FIRE RATING	WALL AREA	OPENING AREA	% OPENINGS ALLOWED	% OPENINGS PROPOSED
EAST > 30'	0	#	#	NL	#
NORTH > 30'	0	#	#	NL	#
WEST > 30'	0	#	#	NL	#
SOUTH > 30'	0	#	#	NL	#

WHERE SEPARATION FROM PROPERTY LINES EXCEEDS 30 FEET, THERE ARE NO LIMITS FOR UNPROTECTED WALL OPENINGS. CALCULATIONS FOR WALL AREA, OPENING AREA AND PROPOSED OPENING PERCENTAGES NOT PROVIDED IN SUCH INSTANCES

MIN. FIRE RESISTANCE OF WALLS, PARTITIONS AND OPNG PROTECTIVES
SHAFT ENCLOSURES NOT APPLICABLE
EXIT ACCESS CORRIDORS NOT APPLICABLE
TENANT SEPARATION NOT APPLICABLE
OCCUPANCY SEPARATION NOT APPLICABLE
FLOOR PENETRATIONS NOT APPLICABLE

MINIMUM PLUMBING FIXTURES TOILET ROOMS AND PLUMBING FIXTURES ARE NOT INCLUDED IN THE PROPOSED SCOPE OF WORK (SHELL CONSTRUCTION ONLY). THESE WILL BE PROVIDED BY THE TENANT UNDER SEPARATE PERMIT.

CONSTRUCTION DRAWINGS FOR THE INTERIOR FINISH-OUT DOCUMENTS SHALL BE PROVIDED BY THE TENANT AND SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL AND PERMIT PRIOR TO CONSTRUCTION.

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN A FIRST CLASS, WORKMANLIKE MANNER ACCORDING TO BEST TRADE PRACTICES. MATERIALS AND EQUIPMENT SHALL BE NEW, AND ALL CONSTRUCTION SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION AND/OR OPENING OF THE DEMISED PREMISES FOR BUSINESS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL AUTHORITIES OR AGENCIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE TENANT'S DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF THE SITE. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING W/ CONSTRUCTION.
- TEMPORARY ELECTRIC POWER AND LIGHTING WILL BE PROVIDED AS REQUIRED. THE TEMPORARY SERVICE MUST MEET ALL APPLICABLE CODE AND SAFETY REQUIREMENTS.
- THE GENERAL CONTRACTOR SHALL PROPERLY PROTECT THE WORK FOR PUBLIC SAFETY AND AGAINST ACCIDENTS, WEATHER OR ANY OTHER HAZARD WITH LIGHTS AND GUARD RAILS OR BARRICADES AS APPLICABLE.
- ALL EXITS SHALL BE MAINTAINED AND SHALL BE OPERABLE FROM THE INSIDE W/O/SPECIAL KNOWLEDGE OR EFFORT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND SIZE OF OPENINGS FOR ALL TRADES AND SHALL COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONSTRUCTION DOCUMENTS, INCLUDING SHOP DRAWINGS REVISED BY THE ARCHITECT.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY AND REQUIRED PERMITS, FEES, DEPOSITS, ETC.
- A FIRE EXTINGUISHER IS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL MAKE ALL PERSONNEL AWARE OF ITS LOCATION.
- THE CONTRACT DOCUMENTS HAVE BEEN PREPARED TO BE COMPLEMENTARY. WHAT IS REQUIRED BY THE DRAWINGS SHALL BE REQUIRED BY THE SPECIFICATIONS, AND CONVERSELY. IN THE CASE OF DISCREPANCIES BETWEEN THE TWO DOCUMENTS CONCERNING QUALITY AND/OR QUANTITY, THE CONTRACTOR SHALL INCLUDE THE BETTER QUALITY AND/OR GREATER QUANTITY UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT. WHERE SPECIFICATIONS HAVE BEEN OMITTED FOR PARTICULAR ITEM(S), THE CONTRACTOR SHALL EMPLOY THE HIGHEST STANDARDS ESTABLISHED BY THE MANUFACTURER OF THE ITEM(S) AS THE GUIDELINES FOR PRODUCT HANDLING, INSTALLATION OR ERECTION AND PROTECTION OF THE COMPONENT ONCE IN PLACE.

PERMIT NOTES

SIGNAGE:

SIGNAGE DEPICTED IN THESE DOCUMENTS ARE FOR COORDINATION PURPOSES ONLY. IT SHALL BE UNDERSTOOD THAT ALL EXTERIOR BUILDING MOUNTED AND SITE SIGNAGE WILL BE PERMITTED SEPARATELY, EITHER BY THE LANDLORD'S SIGN VENDOR OR BY INDIVIDUAL TENANT SIGN VENDORS. AT THAT TIME, COMPLETE DETAILS INCLUDING, BUT NOT LIMITED TO, SIGN FABRICATION, SIGN INSTALLATION, SIGN AREA AND QUANTITIES, ETC. WILL BE SUBMITTED FOR PERMIT REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.

SHOP DRAWINGS:

IT SHALL BE UNDERSTOOD THAT ENGINEERED SHOP DRAWINGS FOR PRE-ENGINEERED ROOF JOISTS SHALL BE PROVIDED BY MANUFACTURER AND SUBMITTED TO THE BUILDING DEPARTMENT BY THE GENERAL CONTRACTOR. SAID SHOP DRAWINGS SHALL CONTAIN A STATEMENT FROM THE PROFESSIONAL OF RECORD STATING THAT HE/SHE HAS REVIEWED THE DRAWINGS AND THAT DRAWINGS ARE IN COMPLIANCE WITH HIS/HER DESIGN BY NAMING THE MANUFACTURER, JOB NUMBER AND DATE OF THE PLANS.

PERMITS:

SEPARATE PERMITS WILL BE REQUIRED FOR THE DUMPSTER ENCLOSURE, AWNINGS AND PRE-ENGINEERED CANOPIES. SAID PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF WORK ON ANY OF THESE COMPONENTS.

PROJECT TEAM

DEVELOPER

K & B WESTSIDE INVESTORS, LLC
5555 SOUTH KIRKMAN ROAD, SUITE 201
ORLANDO, FLORIDA 32819
ATTN: RANDY HODGE
TEL: (407) 354-2200

BUILDING DEPARTMENT

OSCEOLA COUNTY BUILDING DEPARTMENT
1 COURTHOUSE SQUARE, STE 1400
KISSIMMEE, FL 34741
ATTN: COMMERCIAL PLAN REVIEW
TEL.: (407) 742-0200

CIVIL ENGINEER

HANSON, WALTER & ASSOCIATES, INC.
8 BROADWAY, SUITE 104
KISSIMMEE, FL 34741
ATTN: ROBBIE NEWBERRY, P.E.
TEL: (407) 847-9493

MECHANICAL & PLUMBING

STEPANEK-LEWIS AND ASSOCIATES, INC.
2257 TWELVE OAKS WAY, SUITE 103
WESLEY CHAPEL, FLORIDA 33544
ATTN: MATT LEWIS
TEL: (813) 991-1248

ARCHITECT

FWH ARCHITECTS, INC.
3336 GRAND BLVD, SUITE 201
HOLIDAY, FLORIDA 34690
ATTN: ADRIENNE BAUER
TEL: (407) 815-3336

STRUCTURAL ENGINEER

ACC PROFESSIONAL ENGINEERING
1692 MELISSA ANN DRIVE
LUTZ, FLORIDA 33558-8049
ATTN: ALAN GUNTHER
TEL: (813) 963-1906

ELECTRICAL ENGINEER

CHEHAYEB & ASSOCIATES
3702 AZEEL STREET
TAMPA, FLORIDA, 33609
ATTN: SOUHEIL CHEHAYEB
TEL: (813) 876-1415

WIND DESIGN CRITERIA

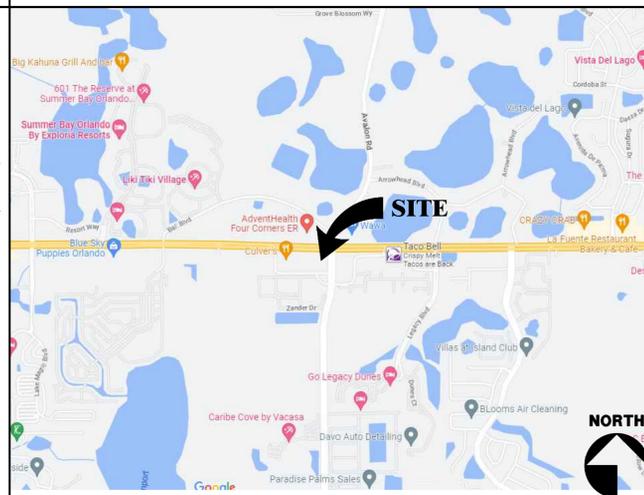
- ULTIMATE WIND SPEED = 139 MPH (FBC FIGURE 1609.3(1))
- WIND EXPOSURE 'B'
- BUILDING RISK CATEGORY II (PER FBC TABLE 1604.5)
- INTERNAL PRESSURE COEFFICIENT (PER ASCE 7-22) ± 0.2 TOTALLY ENCLOSED
- COMPONENTS AND CLADDING - REFER TO STRUCTURAL DRAWINGS FOR WIND DESIGN CRITERIA

FINISH NOTES

- SUBCONTRACTORS MUST EXAMINE EACH INSTALLATION AREA FOR CONDITIONS THAT MAY INTERFERE WITH PROPER, TIMELY, OR ACCEPTABLE COMPLETION OF THE WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR OF UNACCEPTABLE CONDITIONS BEFORE FINISH MATERIAL INSTALLATION. PERFORMANCE OF FINISH WORK INDICATES ACCEPTANCE OF ALL SUBSTRATE CONDITIONS AND ASSUMPTION OF RESPONSIBILITY FOR COMPLIANCE WITH MATERIAL INSTALLATION QUALITY STANDARDS.
- CONTRACTOR TO PREPARE FLOOR SUBSTRATE CONDITIONS (WHERE APPLICABLE) AS NECESSARY WHERE DIFFERENT MATERIALS ABUT TO ENSURE SMOOTH AND GRADUAL TRANSITION, FREE FROM TRIP HAZARD OR EXCESSIVE ELEVATION CHANGE. PROVIDE TRANSITION EDGES AS APPROPRIATE. SUBMIT ACCESSORY OPTIONS, INCLUDING AVAILABLE FINISH AND COLOR SELECTIONS FOR APPROVAL.
- WHERE NO FLOOR FINISH IS REQUIRED, CONTRACTOR SHALL PROVIDE A CLEAN SMOOTH SURFACE FOR FINISHES PROVIDED BY TENANT.
- FOR PAINTED / STAINED SURFACES, ADHERE TO INDUSTRY STANDARDS AND USE PRIMERS, PAINT, STAINS, AND OTHER PRODUCTS AS APPROPRIATE FOR THE CONDITIONS AND SUBSTRATES TO WHICH FINISHES ARE BEING APPLIED.
- ALL GMB SURFACES THAT ARE NOT TO BE PAINTED UNDER THE SCOPE OF THIS CONTRACT (PAINT BY TENANT) ARE TO BE TAPED, MUDDIED AND SANDED. WALLS SHALL BE LEFT IN A CONDITION READY FOR TEXTURE AND PAINT BY TENANT.
- ACCEPTABLE PAINT MANUFACTURERS ARE BENJAMIN MOORE OR SHERWIN WILLIAMS. REFER TO SPECIFICATIONS FOR TYPE OF PAINT.
- ALL COLOR SELECTIONS, IF NOT INDICATED ON PLANS, SHALL BE MADE BY THE TENANT FROM THE MANUFACTURER'S STANDARD SELECTIONS PROVIDED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

ALL WALL AND CEILING FINISHES SHALL COMPLY WITH FLORIDA FIRE PREVENTION CODE SECTION 10.2.3 AND SHALL BE CLASS A OR B IN EXITS AND ENCLOSED CORRIDORS FURNISHING ACCESS TO EXITS; AND CLASS A, CLASS B OR CLASS C IN OFFICES. INTERIOR FLOOR FINISHES SHALL COMPLY WITH FLORIDA FIRE PREVENTION CODE SECTION 10.2.7 AND SHALL BE CLASS I OR CLASS II IN CORRIDORS AND EXITS

VICINITY MAP



DRAWING INDEX

SHT. NO.	DRAWING TITLE	REVISION LOG
A0	INDEX, VICINITY MAP AND NOTES	INDICATES SHEETS AFFECTED
CIVIL	CIVIL AND LANDSCAPE DRAWINGS SUBMITTED UNDER SEPARATE PERMIT BY OTHERS	
ARCHITECTURAL		
A0.1	SPECIFICATIONS	
A0.1A	SPECIFICATIONS	
A0.2	SPECIFICATIONS	
A0.3	KEYNOTE SCHEDULE	
AS.1	ARCHITECTURAL SITE PLAN	
AS.2	MISCELLANEOUS SITE DETAILS	
A1.0	FLOOR PLAN AND NOTES	
A1.1	ROOF PLAN	
A1.2	ROOF DETAILS	
A1.3	CANOPY AND AWNING DETAILS	
A2.0	REFLECTED CEILING PLAN	
A3.0	EXTERIOR ELEVATIONS AND EXTERIOR FINISH SCHEDULE	
A3.1	EXTERIOR ELEVATIONS	
A4.0	FRAME OPENING SCHEDULE	
A4.1	FRAME OPENING DETAILS	
A4.2	ENLARGED PLAN DETAILS	
A5.0	WALL SECTIONS	
A5.1	WALL SECTIONS	
A5.2	WALL SECTIONS	
STRUCTURAL		
S0.1	STRUCTURAL NOTES	
S1.1	FOUNDATION PLAN	
S2.1	ROOF FRAMING PLAN	
S3.1	WALL SECTIONS	
S4.1	SECTIONS AND DETAILS	
S4.2	SECTIONS AND DETAILS	
MECHANICAL		
M1.0	MECHANICAL SPECIFICATIONS	
M2.0	MECHANICAL ROOF PLAN	
M3.0	MECHANICAL DETAILS & SCHEDULES	
PLUMBING		
P1.0	PLUMBING NOTES AND SPECIFICATIONS	
P2.0	PLUMBING FLOOR PLAN	
P3.0	PLUMBING SCHEDULES, RISERS AND DETAILS	
ELECTRICAL		
E0.0	ELECTRICAL PROJECT NOTES AND LEGEND	
E1.0	ELECTRICAL SITE PLAN	
E1.1	PHOTOMETRIC SITE PLAN	
E1.2	FIXTURE INFORMATION	
E2.0	LIGHTING AND POWER PLANS	
E3.0	POWER RISER DIAGRAM	
E4.0	ELECTRICAL SPECIFICATIONS	

REVISED PER PLANNING COMMENTS AND MISC. TENANT CORRECT	REVISED PER BUILDING PERMIT COMMENTS	revision descriptions	date	no.
10.06.2023	02.05.2024			

STARBUCKS SHELL CONSTRUCTION
9030 W. IRLO BRONSON MEMORIAL HIGHWAY
KISSIMMEE, FL

03.10.23
date
22062
comm. no.

INDEX, VICINITY MAP AND NOTES

A0

NO.	DATE	REVISION DESCRIPTIONS

GENERAL NOTES

- A. SEE REQUIREMENTS FOR EXTERIOR CONCRETE ON THIS SHEET
 - B. AT THE BUILDING EXTERIOR, THE GC SHALL BE RESPONSIBLE FOR ALL SUB-GRADE ELECTRICAL CONDUIT AND FOUNDATIONS (INCLUDING ANCHOR BOLTS) FOR STARBUCK'S DRIVE-THRU EQUIPMENT AND MISCELLANEOUS SITE ITEMS INCLUDING, BUT NOT LIMITED TO, DIRECTIONAL SIGNAGE, MENU-BOARDS, DETECTOR LOOP, BOLLARDS AND HEIGHT RESTRICTION BAR. REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC REQUIREMENTS FOR CONDUIT RUNS
- THE GC SHALL OBTAIN A COMPLETE AND CURRENT SET OF STARBUCK'S INTERIOR FINISH-OUT PLANS. THOSE DOCUMENTS SHALL GOVERN WHEN DETERMINING PRECISE LOCATIONS FOR STARBUCK'S DRIVE-THRU EQUIPMENT AND MISCELLANEOUS SITE ITEMS. DIMENSIONS REQUIRED TO LOCATE THESE ITEMS HAVE BEEN INTENTIONALLY OMITTED IN THESE CONSTRUCTION DOCUMENTS TO AVOID POTENTIAL CONFLICTS WITH STARBUCK'S CONSTRUCTION DOCUMENTS. IN ADDITION, THE STARBUCK'S INTERIOR FINISH-OUT PLANS WILL CONTAIN FOUNDATION DETAILS (INCLUDING ANCHOR BOLTS) AND SPECIFICATIONS FOR THE DRIVE-THRU EQUIPMENT AND MISCELLANEOUS SITE ITEMS. FOR REASONS SIMILAR TO THOSE STATED ABOVE, THESE DETAILS HAVE BEEN OMITTED FROM THE SHELL DOCUMENTS. WHERE INDICATED, THE FOUNDATIONS (INCLUDING ANCHOR BOLTS) ARE, HOWEVER, TO BE THE RESPONSIBILITY OF THE SHELL GENERAL CONTRACTOR.
- C. REFER TO CIVIL DRAWINGS FOR THE EXACT DIMENSIONING CONCERNING BUILDING AND SITE LAYOUT EXCEPT ITEMS NOTED ABOVE
 - D. REFER TO CIVIL DRAWINGS FOR UTILITY SERVICES BEING BROUGHT TO THE BUILDING

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS FOR EXTERIOR WALL FINISHES

ALL DOWNSPOUTS EXTENDING TO GRADE SHALL BE CONNECTED TO THE UNDERGROUND STORM SEWER UNLESS OTHERWISE NOTED. REFER TO CIVIL DRAWINGS. A CAST IRON TRANSITION BOOT WITH CLEAN OUT SHALL BE PROVIDED FOR THIS CONNECTION. REFER TO DETAIL ON SHEET AS.1

THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE LOCATIONS OF UNDERGROUND PIPING TO PRECISELY ALIGN WITH ROOF SCUPPERS AND DOWNSPOUTS

REQUIREMENTS FOR EXTERIOR CONCRETE:
DRIVE-THRU LANE:
SHALL BE MINIMUM 6" THICK, 3,000 PSI POURED CONCRETE REINFORCED WITH 6" X 6", #2.8 X #2.8 W/M. REFER TO CIVIL DRAWINGS FOR GRADING. CONCRETE TO RECEIVE INTEGRAL CONCRETE COLOR, NUMBER CC150/6 AS MANUFACTURED BY INCRETE SYSTEMS. INSTALL SAWCUT CONCRETE CONTROL JOINTS, 1/8" WIDE X 1 1/2" DEEP, AT 15'-0" O.C. MAX. EACH WAY (AREA NOT TO EXCEED 225 SQ. FT.).

PERIMETER SIDEWALKS: SHALL BE A MINIMUM OF 4" THICK, 3,000 PSI CONCRETE REINFORCED WITH 4" X 6", #1.4 X #1.4 W/M AND 1/2" DEEP X 8" WIDE THICKENED SLAB EDGE, NATURAL GRAY COLOR. SURFACE TO RECEIVE MEDIUM BROOM FINISH, RETOOL (WITH HAND EDGER) ALL CONTROL JOINTS AND EXPANSION JOINTS AFTER BROOM FINISHING TO ACHIEVE "PICTURE FRAME" IN CONCRETE. THIS SHALL INCLUDE ALL ABUTMENTS TO WALLS, CURBS, COLUMNS, ETC.

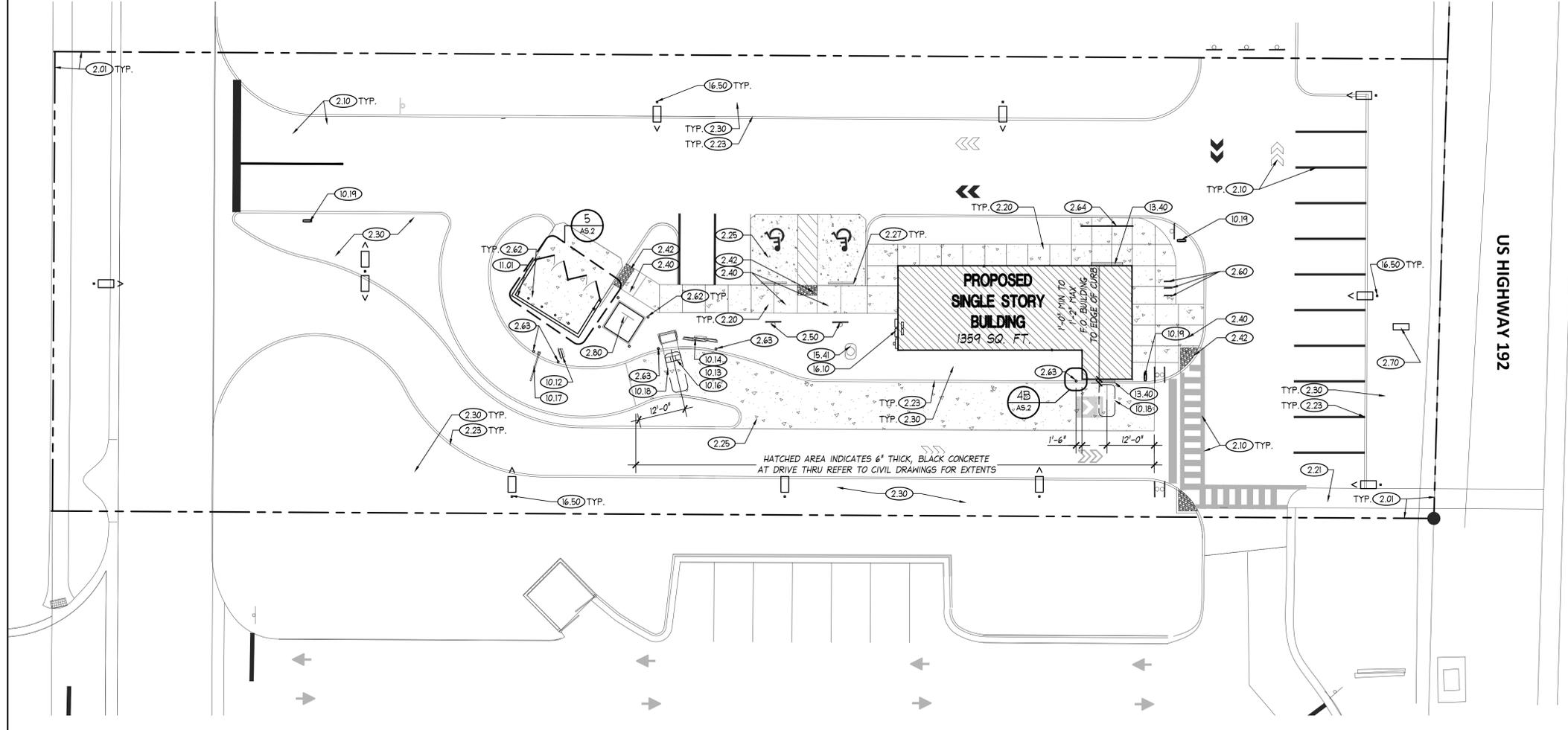
SIDEWALK CONTROL JOINTS SHALL BE SEPARATED BY NO MORE THAN 5'-0" IN EITHER DIRECTION WITH PRE-MOLDED EXPANSION JOINTS LOCATED EVERY 20'-0" MAX.

HANDICAP PARKING AREA: SHALL BE MINIMUM 6" THICK, 3,000 PSI POURED CONCRETE REINFORCED WITH 6" X 6", #2.8 X #2.8 W/M. PROVIDE 1/2% SLOPE (2% MAX.). CONCRETE TO RECEIVE INTEGRAL CONCRETE COLOR, NUMBER CC150/6 AS MANUFACTURED BY INCRETE SYSTEMS. PROVIDE 18" X 18" CHAMFER AT CORNERS.

DOMESTIC WATER SERVICE REQUIREMENTS:
THE DOMESTIC WATER SERVICE SHALL BE A MINIMUM OF 50 PSI AND NO GREATER THAN 65 PSI DYNAMIC PRESSURE AT THE POINT OF BUILDING ENTRY. IF THE SERVICE STATIC IS OVER 65 PSI, A PRESSURE REDUCING VALVE TO BE PROVIDED BY THE SHELL GENERAL CONTRACTOR. IF THE PRESSURE IS UNDER 50 PSI AT THE POINT OF ENTRY, A BOOSTER PUMP AND SURGE TANK SHALL BE PROVIDED AND INSTALLED. IMMEDIATELY UPON INSTALLATION OF THE WATER SERVICE TO THE BUILDING, THE PLUMBING CONTRACTOR SHALL PERFORM A PRESSURE TEST. SHOULD THE PRESSURES NOT MEET THE ABOVE STATED CRITERIA, THE GENERAL CONTRACTOR SHALL PROVIDE RESULTS TO THE ARCHITECT AT THE EARLIEST POSSIBLE DATE. THE ARCHITECT WILL THEN PROVIDE THE NECESSARY DESIGN REMEDIES TO THE CONTRACTOR FOR PRICING, PERMIT AND CONSTRUCTION

SIGNAGE DEPICTED IN THESE DOCUMENTS ARE FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL DRAWINGS WHERE APPLICABLE.

IT SHALL BE UNDERSTOOD THAT ALL EXTERIOR BUILDING MOUNTED AND SITE SIGNAGE WILL BE PERMITTED SEPARATELY BY THE SIGN VENDOR. AT THAT TIME, COMPLETE DETAILS INCLUDING, BUT NOT LIMITED TO, SIGN FABRICATION, SIGN INSTALLATION, SIGN AREA AND QUANTITIES, ETC. WILL BE SUBMITTED FOR PERMIT REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK



ARCHITECTURAL SITE PLAN NORTH
SCALE: 1/16" = 1'-0"

HOOP RACK

HOOP RACK - Specifications and Space Use

Product Name: Drive Thru Rack
An amenity for Drive Thru Racks

Material: 1.5" schedule 40 pipe (1.5" O.D.)

Finish: An outer galvanized steel dipped galvanized finish in a standard 300 TPC powder-coat color and a weather resistant finish is also available.

Our powder coat finish ensures a high level of adhesion and durability by following these steps:

1. Surface preparation
2. Heavy primer
3. Heavy primer
4. Final coat

Standard load: 300 lbs. (distributed over 100 sq. ft. of area) or 100 lbs. per sq. ft. (distributed over 100 sq. ft. of area)

Installation Methods:

1. To be installed into a concrete base.
2. To be installed into a wall.
3. To be installed into a wall.

Wall Setbacks:

- For racks set parallel to a wall: Minimum 24"
- For racks set perpendicular to a wall: Minimum 36"

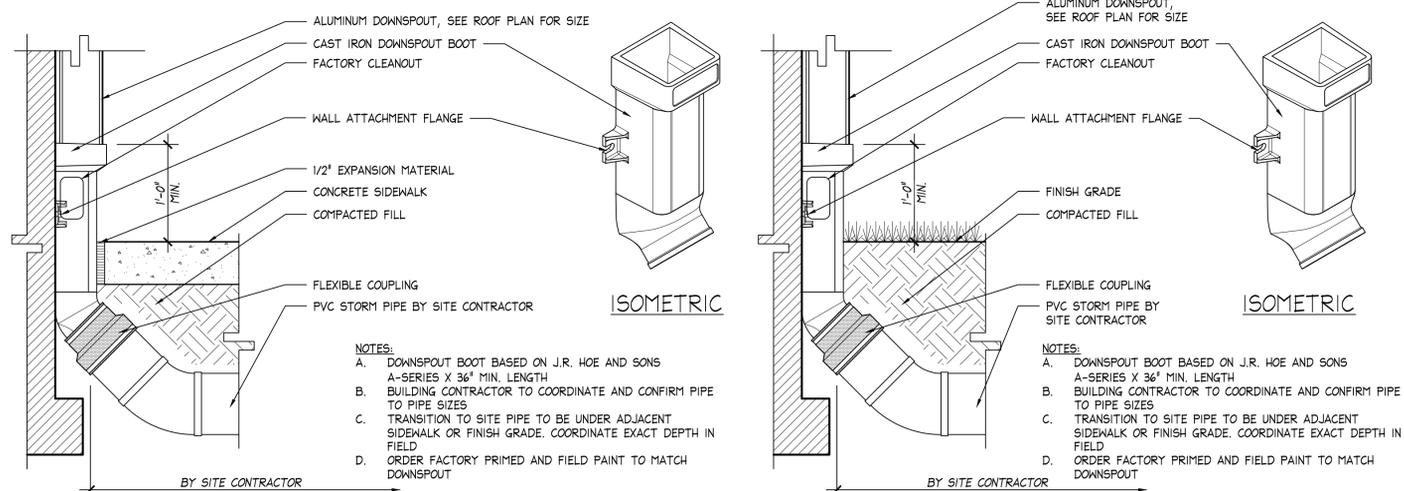
Distance Between Racks:

- Minimum 24"
- Maximum 36"

Spacer Setbacks:

- Minimum 24"
- Maximum 36"

1 BIKE RACK SPECIFICATIONS
NO SCALE



2 DOWNSPOUT CONNECTION DETAILS
SCALE: 1-1/2" = 1'-0"

- NOTES:**
- A. DOWNSPOUT BOOT BASED ON J.R. HOE AND SONS A-SERIES X 3/8" MIN. LENGTH
 - B. BUILDING CONTRACTOR TO COORDINATE AND CONFIRM PIPE TO PIPE SIZES
 - C. TRANSITION TO SITE PIPE TO BE UNDER ADJACENT SIDEWALK OR FINISH GRADE. COORDINATE EXACT DEPTH IN FIELD
 - D. ORDER FACTORY PRIMED AND FIELD PAINT TO MATCH DOWNSPOUT

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

GROUND SIGN RESPONSIBILITIES:

THE SHELL GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING ITEMS REGARDING THE GROUND SIGN(S):

- 1) POWER SUPPLY TO THE SIGN AS SPECIFIED IN THE ELECTRICAL DRAWINGS
- 2) THE GROUND SIGN CABINETS (INTERNALLY ILLUMINATED) SHALL BE PERMITTED AND CONSTRUCTED BY A SIGN COMPANY ENGAGED BY THE LANDLORD. GC SHALL LOCATE AND INSTALL CONCRETE FOUNDATION AS SHOWN ON SIGN VENDOR'S PERMIT DRAWINGS

REFER TO THE FINISH SCHEDULE ON SHEET A3.0 FOR EXTERIOR FINISH DESCRIPTIONS



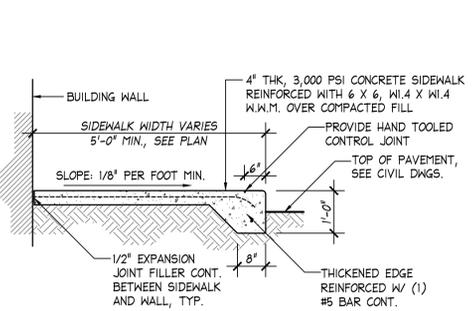
3336 Grand Blvd, Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
Fax 727. 815. 3337



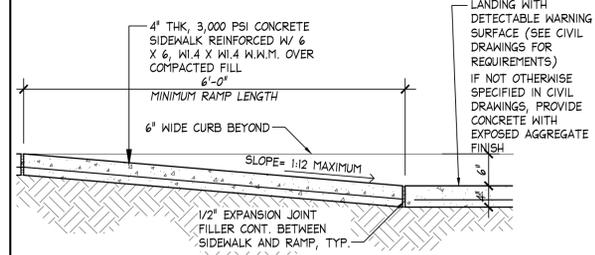
TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

GUY F. FABER
FL License No. AR0015323

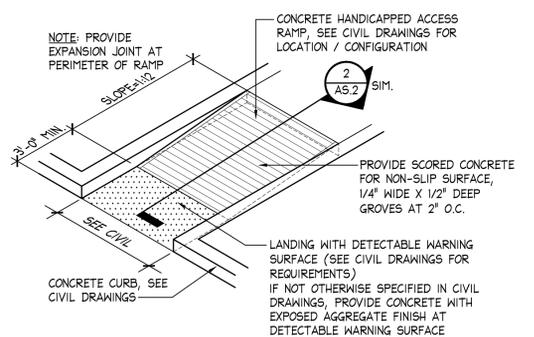
NO.	DATE	REVISION DESCRIPTIONS



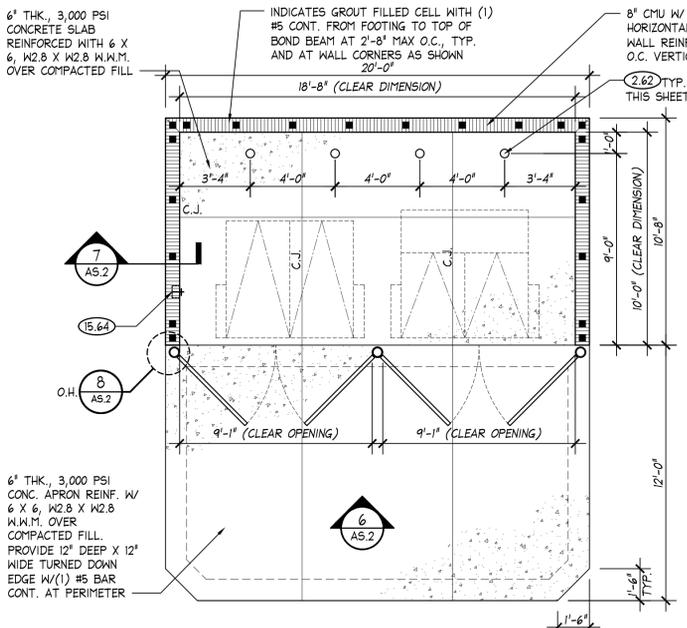
1 CONCRETE SIDEWALK SECTION
SCALE: 1/2" = 1'-0"



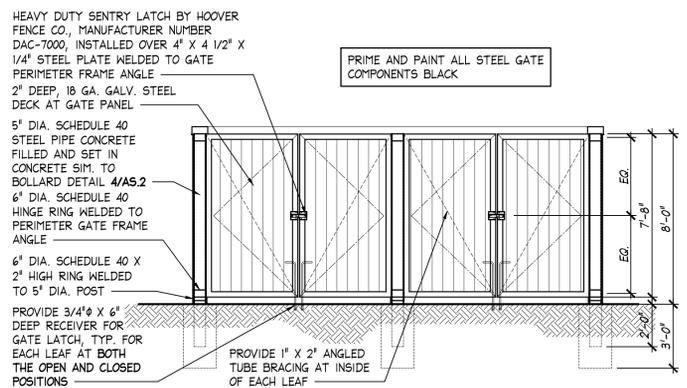
2 HANDICAP RAMP SECTION
SCALE: 3/4" = 1'-0"



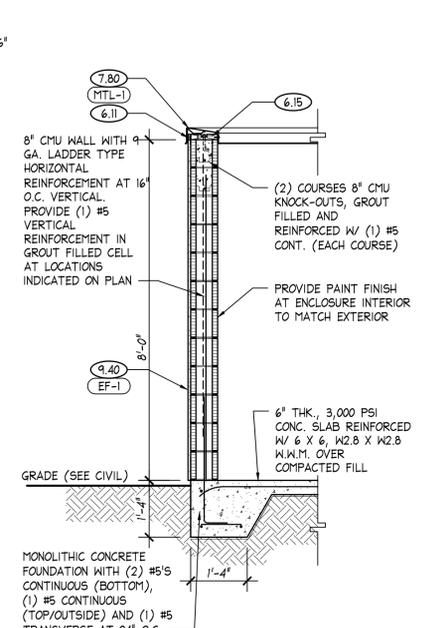
3 HANDICAP RAMP SECTION
NOT TO SCALE



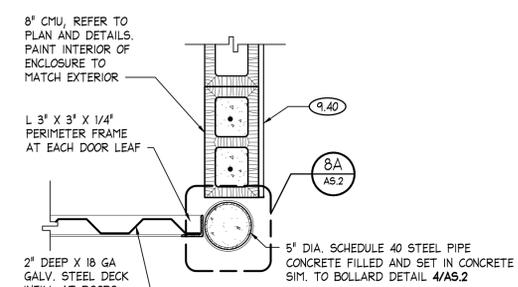
5 DUMPSTER ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"



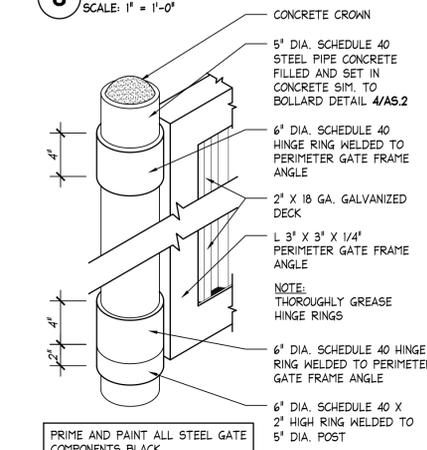
6 DUMPSTER ELEVATION
SCALE: 1/4" = 1'-0"



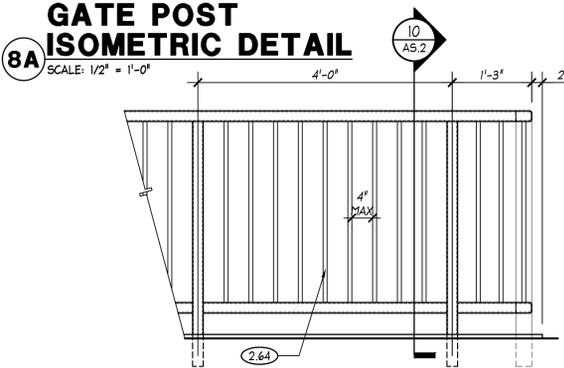
7 DUMPSTER SECTION
SCALE: 1/2" = 1'-0"



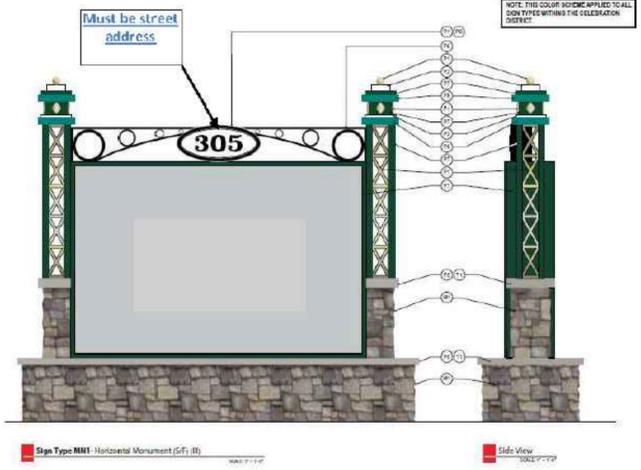
8 GATE POST DETAIL
SCALE: 1" = 1'-0"



8A GATE POST ISOMETRIC DETAIL
SCALE: 1/2" = 1'-0"



9 RAILING ELEVATION
SCALE: 3/4" = 1'-0"



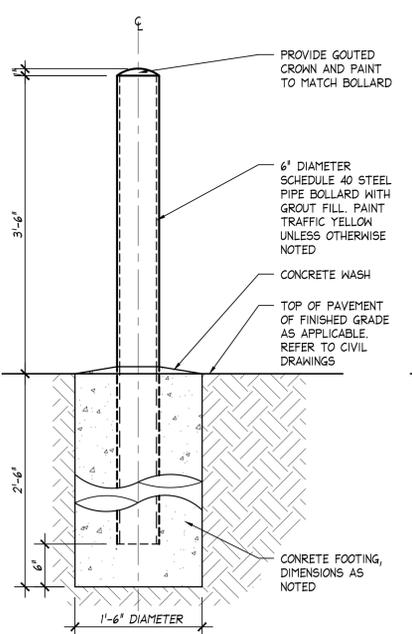
11 SIGN ELEVATION
N.T.S.
SIGNS BY OTHERS SHOWN FOR REFERENCE

THE RAILING AT THE OUTDOOR SEATING AREA SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. THE FINAL LAYOUT AND DESIGN SHALL BE COORDINATED WITH TENANT PLANS

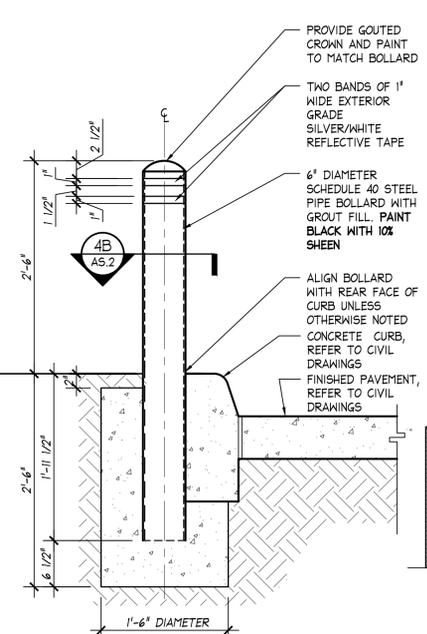
ALL COMPONENTS SHALL BE PROVIDED WITH A POWDER COAT FINISH, STARBUCKS BLACK

ALL RAILING COMPONENT DIMENSIONS ARE APPROXIMATE. FINAL DIMENSIONS TO BE DETERMINED BY MANUFACTURER

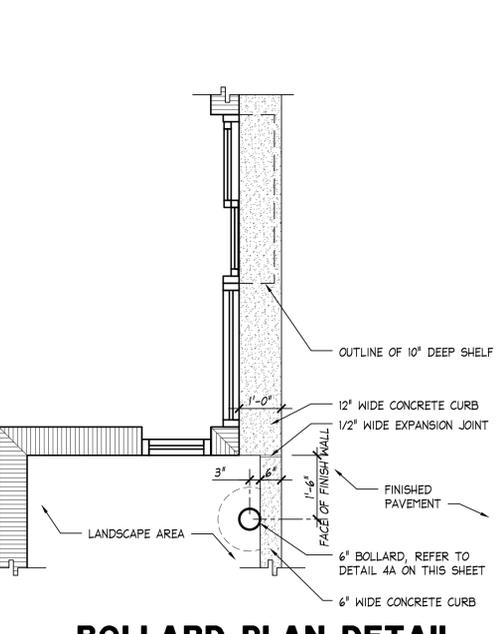
10 RAILING SECTION
SCALE: 1 1/2" = 1'-0"



4 BOLLARD DETAIL
SCALE: 1" = 1'-0"



4A BOLLARD DETAIL
SCALE: 1" = 1'-0"



4B BOLLARD PLAN DETAIL AT DRIVE-THRU WINDOW
SCALE: 1/2" = 1'-0"

STARBUCKS SHELL CONSTRUCTION
WESTSIDE BLVD & US HWY 192
KISSIMMEE, FL

03.10.23
date
22062
comm. no.

MISCELLANEOUS SITE DETAILS

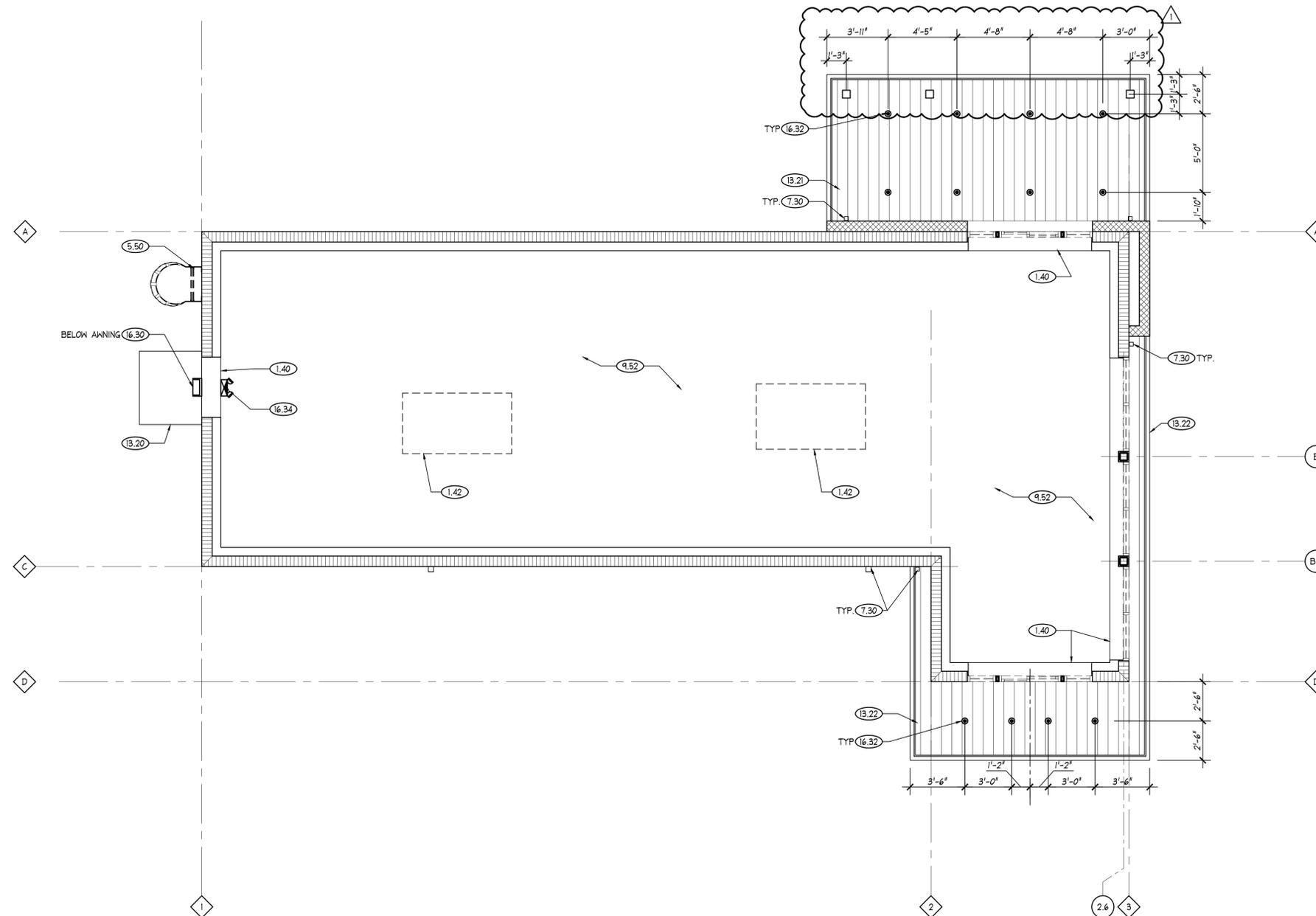
AS.2

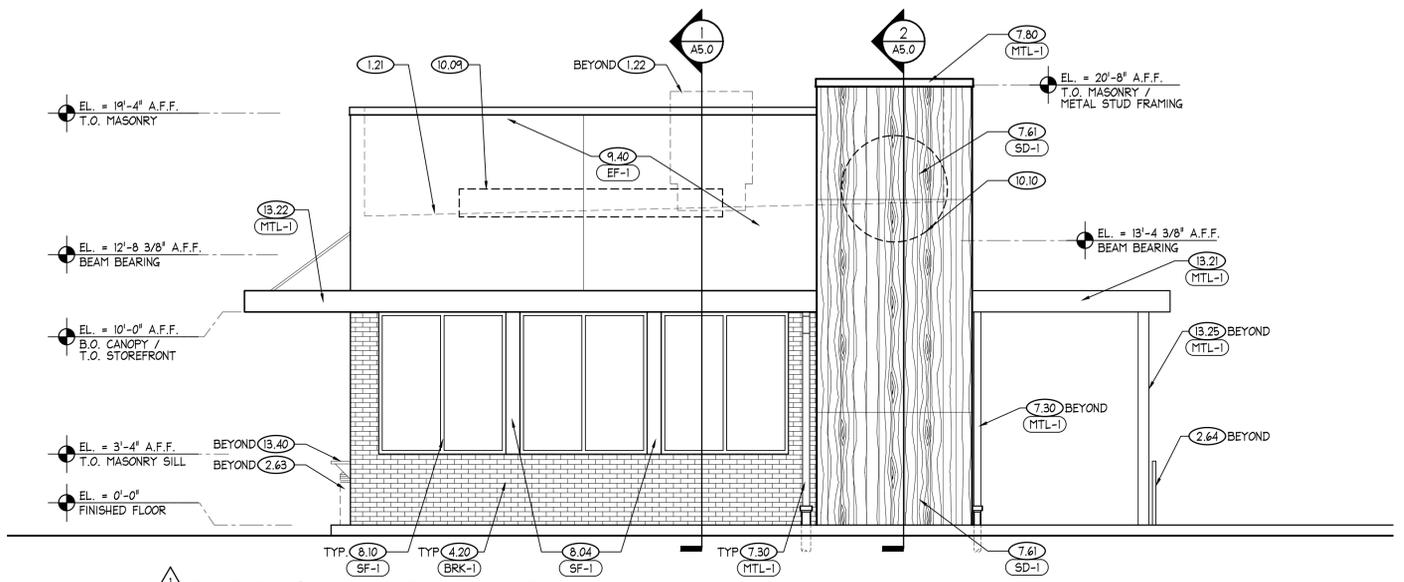
GENERAL NOTES

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

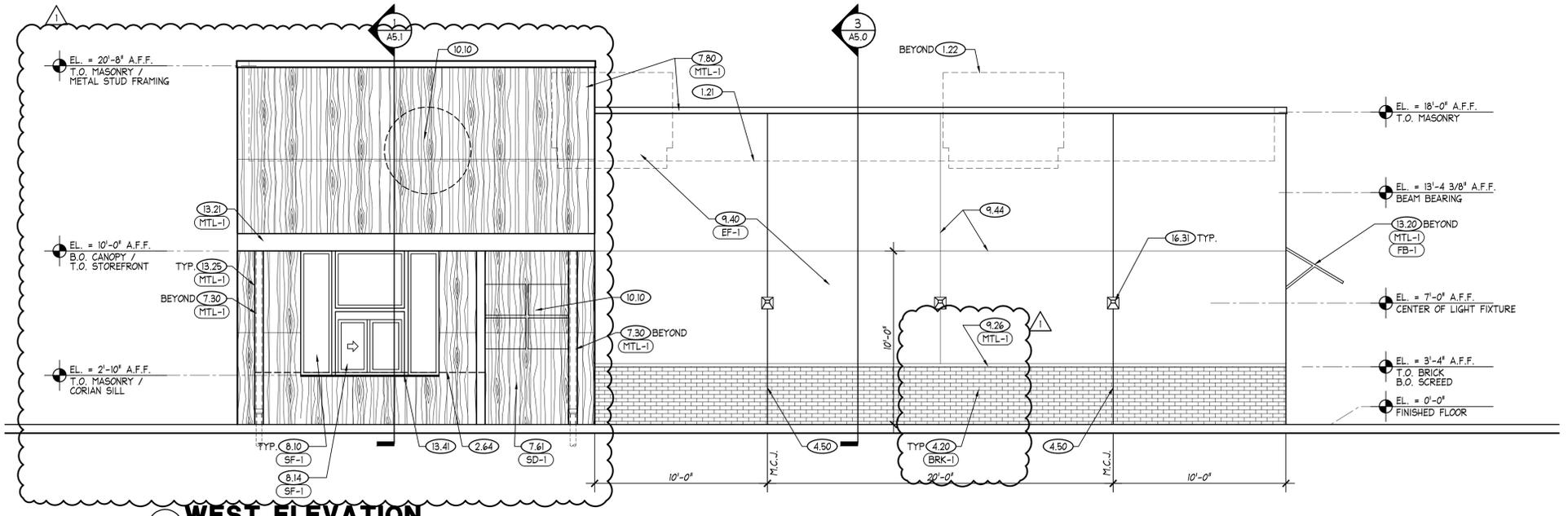
TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

- REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING SPECIFICATIONS AND LOCATIONS OF EMERGENCY LIGHTING
- REFER TO MECHANICAL PLANS FOR ROOFTOP EQUIPMENT AND DROPS
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRIC POWER SUPPLY / RECEPTACLES ABOVE STOREFRONT OPENINGS AND THE BUILDING EXTERIOR FOR WALL MOUNTED SIGNAGE. REFER ALSO TO THE EXTERIOR ELEVATIONS
- REFER TO SHEET A4.1 FOR HEAD, JAMB AND SILL DETAILS





1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



2 WEST ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.), WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

SIGNAGE DEPICTED IN THESE DOCUMENTS ARE FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL DRAWINGS WHERE APPLICABLE

IT SHALL BE UNDERSTOOD THAT ALL EXTERIOR BUILDING MOUNTED AND SITE SIGNAGE WILL BE PERMITTED SEPARATELY BY THE SIGN VENDOR. AT THAT TIME, COMPLETE DETAILS INCLUDING, BUT NOT LIMITED TO, SIGN FABRICATION, SIGN INSTALLATION, SIGN AREA AND QUANTITIES, ETC. WILL BE SUBMITTED FOR PERMIT REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK

EXTERIOR FINISH NOTES

EXTERIOR INSULATION FINISH SYSTEM (EIFS) REQUIREMENTS:

- THE STANDARD FINISH COAT OVER CEMENT PLASTER SURFACES SHALL BE AN ACRYLIC EIFS FINISH COAT, "DRYVIT TAFTS" (OPTION 1) AS MANUFACTURED BY DRYVIT SYSTEMS, INC. COLORS, AS SPECIFIED ON THE EXTERIOR FINISH SCHEDULE, HAVE BEEN SELECTED FROM DRYVIT'S STANDARD COLORS. THIS SYSTEM CONSISTS OF A TINTED PRIMER AND TEXTURED ACRYLIC FINISH WITH INTEGRAL COLOR. THE SPECIFIED SYSTEM HAS A 10-YEAR MANUFACTURER WARRANTY
- WHERE A CUSTOM COLOR IS REQUIRED FOR THE FINISH COAT OVER CEMENT PLASTER SURFACES, AN ACRYLIC EIFS FINISH COAT, "DRYVIT TAFTS" (OPTION 1) WITH STRATOTONE COLOR MATCHING SYSTEM AS MANUFACTURED BY DRYVIT SYSTEMS, INC. SHALL BE PROVIDED. CUSTOM COLORS ARE SPECIFIED ON THE EXTERIOR FINISH SCHEDULE. THIS SYSTEM CONSISTS OF A TINTED PRIMER AND TEXTURED ACRYLIC FINISH WITH INTEGRAL COLOR. THE SPECIFIED SYSTEM HAS A 5-YEAR MANUFACTURER WARRANTY
- ALL FINISH COAT TEXTURES SHALL BE "SANDPEBBLE FINE" UNLESS OTHERWISE NOTED
- WHERE FOAM TRIM, CORNICE MOLDING OR OTHER SHAPES ARE SPECIFIED, COMPONENTS SHALL BE AS MANUFACTURED BY "DRYVIT SHAPES BY ACROCORE" AND SHALL BE COMPRISED OF A TYPE 1 CLASSIFICATION EXPANDED POLYSTYRENE WRAPPED IN A FLEXIBLE IMPACT RESISTANT FIBERGLASS MESH AND COATED WITH A FACTORY APPLIED POLYMER MODIFIED, FLEXIBLE CEMENT COATING

5. ALL GENERAL CONTRACTOR BIDS SHALL INCLUDE THE ABOVE STATED SYSTEMS / PRODUCTS IN THEIR BASE BIDS. SUBSTITUTIONS WILL BE CONSIDERED FOR APPROVAL BUT ONLY IF FULLY QUALIFIED IN BIDS INCLUDING COMPLETE SYSTEM / PRODUCT SPECIFICATIONS AND ASSOCIATED COSTS

ALUMINUM COPING, DRIP EDGES, SCUPPERS AND DOWNSPOUT REQUIREMENTS:

- ALL COMPONENTS SHALL BE PREFINISHED WITH A FACTORY APPLIED, KYNAR 500 FINISH OR MANUFACTURER EQUIVALENT. COLORS SHALL BE AS SPECIFIED FROM THE MANUFACTURER'S STANDARD COLOR OPTIONS

GENERAL:

- WHERE PLASTER REVEALS ARE NOT PREFINISHED, REVEALS SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR UNLESS OTHERWISE NOTED
- ALL EXPOSED, BUILDING MOUNTED UTILITIES AND CONDUITS SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACES UNLESS OTHERWISE NOTED

EXTERIOR FINISH SCHEDULE

CEMENT PLASTER / EIFS FINISHES (ACRYLIC EIFS FINISH WITH INTEGRAL COLOR AND TEXTURE)				PAINT FINISHES			
TAG	MANUFACTURER	COLOR	DESCRIPTION	TAG	MANUFACTURER	COLOR	DESCRIPTION
(EF-1)	DRYVIT	MATCH SHERWIN WILLIAMS #SW7015 "REPOSE GRAY"	CUSTOM DRYVIT STRATOTONE COLOR	(PT-1)	SHERWIN WILLIAMS	SW7015 "REPOSE GRAY"	
METAL SOFFIT PANELS, TRIM, COPING, DOWNSPOUTS AND SCUPPERS				SIDING			
(MTL-1)	PAC-CLAD	"MATTE BLACK"	KYNAR 500	(SD-1)	NICHIHA	VINTAGE WOOD "CEDAR"	CEMENTITIOUS SIDING
ALUMINUM STOREFRONT				AWNING FABRIC			
(SF-1)	YKK	"BLACK"		(FB-1)	SUNBRELLA	"BLACK"	FIRE RETARDANT FIRESIST
BRICK							
(BRK-1)	VEE BRICK CLASSICS	COLOR: "710 SEASHELL" MORTAR: SM330 "BURLYWOOD"					

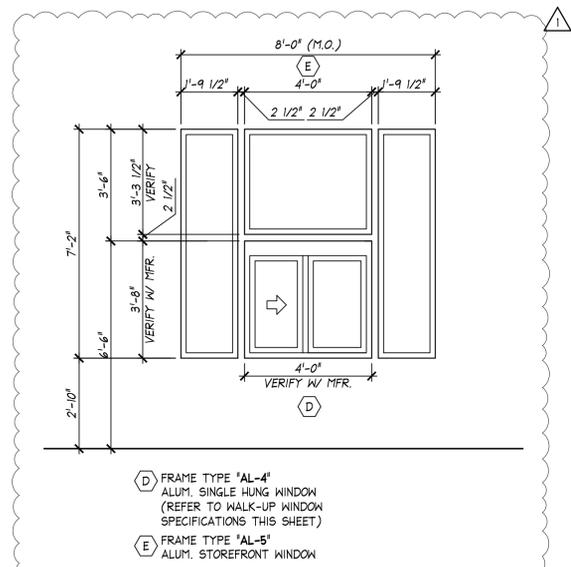
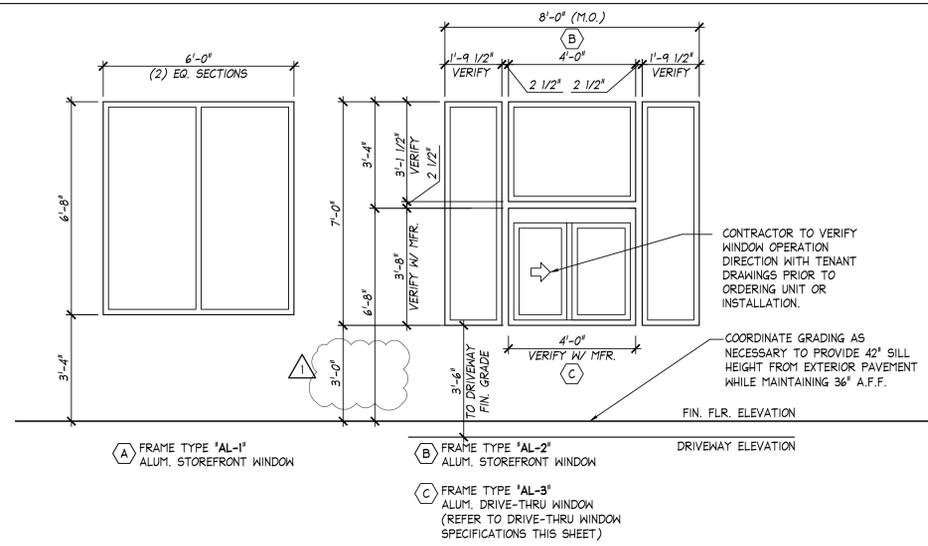
NO.	DATE	REVISION DESCRIPTIONS
10.06.2023		REVISED PER PLANNING COMMENTS AND MISC. TENANT COORD.

STARBUCKS SHELL CONSTRUCTION
WESTSIDE BLVD & US HWY 192
KISSIMMEE, FL

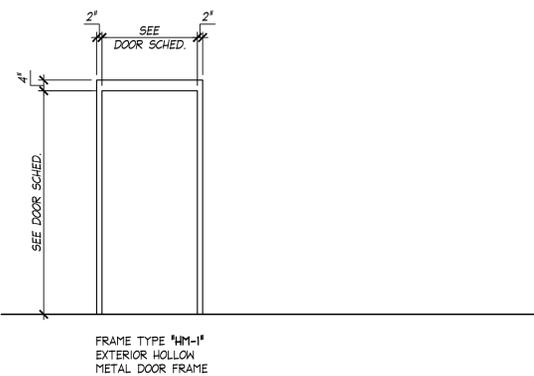
03.10.23
date
22062
comm. no.

EXTERIOR ELEV. AND EXTERIOR FINISH SCHEDULE

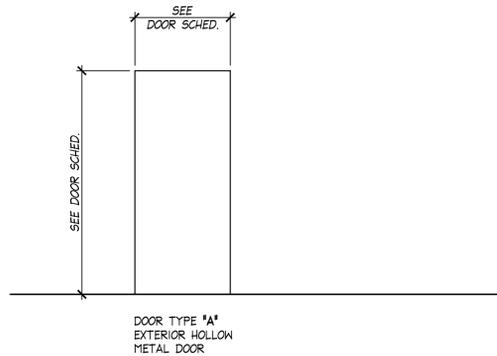
A3.0



1 ALUMINUM STOREFRONT FRAME TYPES
SCALE: 3/16" = 1'-0"



2 HOLLOW METAL FRAME TYPES
SCALE: 3/16" = 1'-0"



3 DOOR TYPES
SCALE: 3/16" = 1'-0"

FRAME OPENING SCHEDULE

OPNG NO.	SPACE LOCATION	DOOR (AS APPLICABLE)						FRAME		DETAIL REFERENCE			FINISH		REMARKS REFER TO 'FRAME OPENING SCHEDULE REMARKS' AS REFERENCED BELOW	NO.
		TYPE	WIDTH	HGT.	THK.	MATL.	HDW.	TYPE	MATL.	HEAD	JAMB	THRES./SILL	DR.	FRM.		
1	EXIT/ENTRY	A	3'-6"	7'-0"	1-3/4"	HOLLOW MTL	I	HM-1	HM	5/A4.1	6/A4.1	7/A4.1	PAINT	PAINT	SEE NOTES 1, 2 & 5	1
(A)	SEE ELEVATION							AL-1	ALUM.	1/A4.1	-	2/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	(A)
(B)	SEE ELEVATION							AL-2	ALUM.	3/A4.1	-	4/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6 AND DRIVE-THRU WINDOW NOTES	(B)
(C)	SEE ELEVATION							AL-3	ALUM.	3/A4.1	-	4/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6 AND DRIVE-THRU WINDOW NOTES	(C)
(D)	SEE ELEVATION							AL-4	ALUM.	3/A4.1	-	8/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6 AND WALK-UP WINDOW NOTES	(D)
(E)	SEE ELEVATION							AL-5	ALUM.	3/A4.1	-	8/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6 AND WALK-UP WINDOW NOTES	(E)

GENERAL DOOR AND HARDWARE NOTES

- A. DOOR CLOSURE ARMS SHALL PERMIT MAXIMUM DEGREE OF OPENING PERMITTED BY WALL CONDITIONS
- B. DOOR CLOSURES SHALL BE APPLIED TO BOTH LEAVES OF A PAIR OF DOORS
- C. SILENCERS TO BE FURNISHED ON ALL DOOR OPENINGS
- D. THRESHOLDS TO BE FURNISHED WITH STAINLESS STEEL MACHINE SCREWS AND LEAD ANCHORS
- E. FURNISH RESTROOM DOORS WITH 1" UNDERCUT, U.O.N.
- F. ALL DOOR HANDLES SHALL BE LEVER TYPE WITH RETURNS TO WITHIN 1/2" OF THE DOOR FACE AND IN CONFORMANCE WITH ANSI 117.1, LATEST EDITION
- G. CONTRACTOR SHALL RE-KEY DOORS AT COMPLETION OF PROJECT
- H. ALL STEEL DOORS SHALL BE PAINTED PRIOR TO INSTALLATION OF HARDWARE
- I. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE GALVANIZED
- J. REFER TO FLOOR PLAN FOR DOOR SWINGS
- K. EXIT DOORS: DURING BUSINESS HOURS EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT USE OF A KEY
- L. HARDWARE SUPPLIER TO VERIFY ALL HARDWARE COMPONENTS ARE COMPATIBLE WITH ACCOMPANYING ITEMS AND ARE IN COMPLIANCE WITH ALL STATE OR PRODUCT APPROVALS
- M. HARDWARE SUPPLIER TO CONFIRM HARDWARE FINISHES MATCH STOREFRONT FINISH COLOR
- N. ALL EXTERIOR DOORS SHALL MEET FLORIDA WINDSTORM REQUIREMENTS. THE DOOR HARDWARE SPECIFIED IS LISTED AS A BASIS OF DESIGN. IF ALTERNATE HARDWARE IS PROPOSED, PROVIDE PDC COMPLIANCE INFORMATION
- O. DOOR CLOSERS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA ACCESSIBILITY SECTION 404.2.8 AND 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, MINIMUM
- P. EXTERIOR HINGED DOORS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA ACCESSIBILITY SECTION 404.2.9 AND SHALL BE DESIGNED SO THAT SUCH DOORS CAN BE PUSHED OR PULLED WITH A FORCE NOT EXCEEDING 8.5 POUNDS

THE CONTRACTOR SHALL OBTAIN DOOR AND STOREFRONT MANUFACTURER'S FLORIDA PRODUCT APPROVAL DATA AND INSTALLATION REQUIREMENTS AND MAKE AVAILABLE TO FIELD INSPECTORS UPON REQUEST

FRAME OPENING SCHEDULE REMARKS

- 1. PAINT DOOR AND FRAME, SEMI-GLOSS PAINT. REFER TO EXTERIOR ELEVATIONS FOR COLOR
- 2. PROVIDE INSULATED HOLLOW METAL DOOR
- 3. ALUMINUM STOREFRONT FRAME COMPONENTS SHALL BE "BLACK"
- 4. ALUMINUM STOREFRONT BASED ON YKK YES 45FI SYSTEM WITH 1" INSULATED GLASS, CLEAR, LOW-E APPROVAL DATA AND INSTALLATION REQUIREMENTS WITH THE BUILDING DEPARTMENT, IF REQUIRED
- 5. THE CONTRACTOR SHALL COORDINATE SUBMITTAL OF MANUFACTURER'S FLORIDA PRODUCT APPROVAL DATA AND INSTALLATION REQUIREMENTS WITH THE BUILDING DEPARTMENT, IF REQUIRED
- 6. PROVIDE SILL FLASHING CONTINUOUS ALONG BOTTOM OF ALL SILL MEMBERS. AT TERMINATION OF SILL FLASHING, PROVIDE END CAP OF EQUAL MATERIAL. SET ALL IN BED OF CONTINUOUS SEALANT

DRIVE-THRU WINDOW

WINDOW UNIT
 READY ACCESS '600 SERIES' WINDOW
 MODEL 600M0ER 43 1/2" HIGH X 47 1/2" WIDE
 COLOR - DARK BRONZE
 * DRIVE-THRU SHELF IS PROVIDED BY MANUFACTURER

READY ACCESS
 1815 ARTHUR DRIVE
 WEST CHICAGO, IL 60185
 PH: 800-621-5045

WALK-UP WINDOW

WINDOW UNIT
 READY ACCESS '600 SERIES' WINDOW
 MODEL 600M0ER 43 1/2" HIGH X 47 1/2" WIDE
 COLOR - DARK BRONZE

READY ACCESS
 1815 ARTHUR DRIVE
 WEST CHICAGO, IL 60185
 PH: 800-621-5045

HARDWARE SCHEDULE

- HARDWARE SET NO. 1**
- (1) DOOR CLOSER 8916 AF89P AL DORMA
 - (1) FALCON C607 7PIN CORE COMBINATION 'A' KEYWAY 626
 - (1) SUR-LOCK AUTO LOCKING DOOR ALARM, 1/0 2000L-091G; NO CTR INCLUDES MORTISE CYLINDER
 - (1) DOOR SPY, DESCO, SILVER, DS-6
 - (1) NGP WEATHER STRIP 17' 46"X 84"
 - (1) NUTONE DOOR BELL
 - (1) NATIONAL GUARD DOOR SWEEP 42"
 - (1) ROCKWOOD KICKPLATE 10" HIGH X 2" LESS DOOR WIDTH
 - (1) FULL MORTISE HEAVY DUTY CONTINUOUS GEARED HINGE
 - (1) ROCKWOOD DOOR STOP W/HOOK (473)
 - (1) 1/2" HIGH X 5" WIDE, THRESHOLD NOTCHED AND CUT TO LENGTH
 - (1) FULL LENGTH STEEL ASTRAGRAL
 - (1) DRIP CAP

FWH Architects
 3336 Grand Blvd, Suite 201
 Holiday, Florida 34690
 Ph. 727. 815. 3336
 Fax 727. 815. 3337

investments
 5555 KIRKMAN RD, SUITE 201
 ORLANDO, FL 32819
 PHONE: 407.354.2200

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

GUY F. FABER
 FL License No. AR0015323

REVISED PER PLANNING COMMENTS AND DISC. TENANT COORD.	REVISED PER BUILDING PERMIT COMMENTS	revision descriptions	date	no.
10.06.2023	02.05.2024			

STARBUCKS SHELL CONSTRUCTION
 9030 W. IRL O BRONSON
 MEMORIAL HIGHWAY
 KISSIMMEE, FL

03.10.23
 date

22062
 comm. no.

FRAME OPENING SCHEDULE

A4.0

REFER TO SHEET A0.3 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

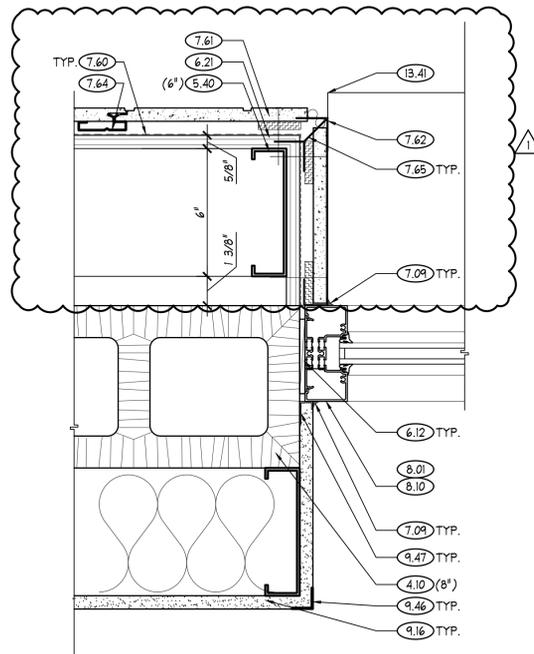


3336 Grand Blvd, Suite 201
 Holiday, Florida 34690
 Ph. 727. 815. 3336
 Fax 727. 815. 3337

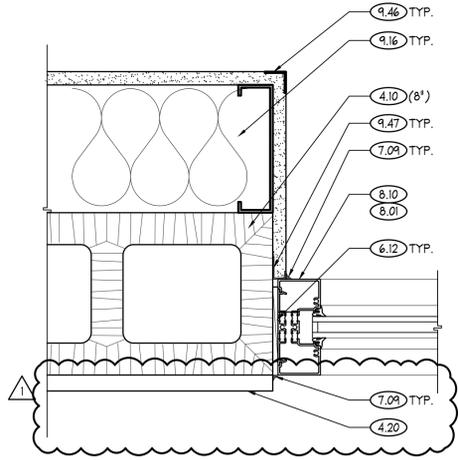


TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

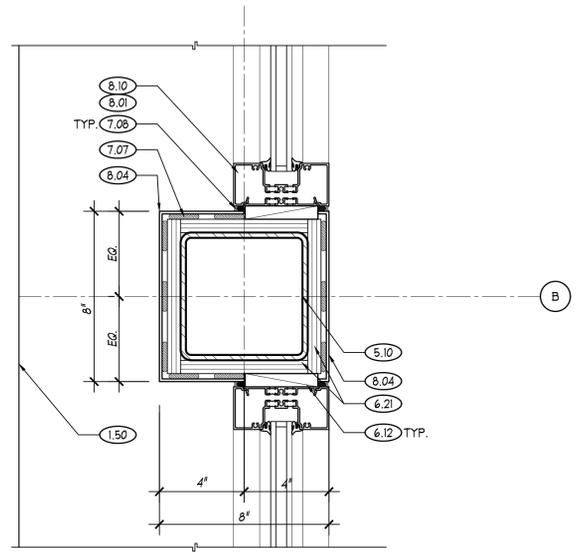
GUY F. FABER
 FL License No. AR0015323



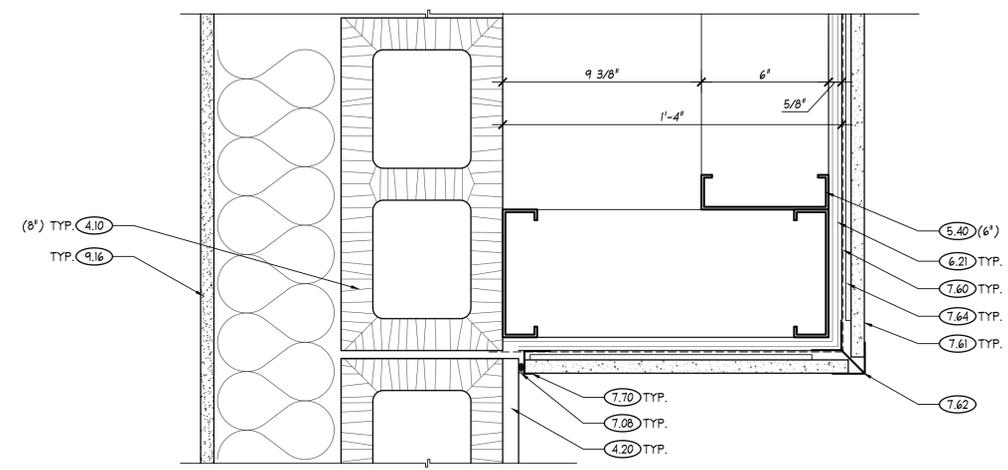
1 PLAN DETAIL
 SCALE: 3" = 1'-0"



3 PLAN DETAIL
 SCALE: 3" = 1'-0"



2 PLAN DETAIL
 SCALE: 3" = 1'-0"



4 PLAN DETAIL
 SCALE: 3" = 1'-0"

NO.	DATE	REVISION DESCRIPTIONS
1	10.06.2023	REVISED PER PLANNING COMMENTS AND MISC. TENANT COORD.

STARBUCKS SHELL CONSTRUCTION
 WESTSIDE BLVD & US HWY 192
 KISSIMMEE, FL

03.10.23
 date
 22062
 comm. no.

ENLARGED
 PLAN DETAILS

A4.2

MISCELLANEOUS

- 1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH...

Table with columns: AREA, SUPERIMPOSED LIVE LOAD (FBC, TABLE 1607.1), DEAD LOAD (FBC, TABLE 1601.2)

- 7. ULTIMATE DESIGN WIND SPEED = 139 MPH (FBC, FIGURE 1609.3.1) AND NORMAL DESIGN WIND SPEED = 108 MPH (FBC, TABLE 1609.3.1)...

MATERIAL AND SHOP DRAWING SUBMITTALS

- 1. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTING TO THE ARCHITECT...

SITE WORK

- 1. A SUBSURFACE INVESTIGATION AND REPORT SHALL BE PROVIDED BY THE OWNER PRIOR TO COMMENCEMENT OF WORK...

CAST IN PLACE CONCRETE

- 1. CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

- 14. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK, SHORING, AND RESHORING...

MASONRY

- 1. MASONRY INSPECTION SHALL BE PROVIDED BY A QUALIFIED AGENT IN ACCORDANCE WITH ACI 530.1-1.6...

METAL DECKING

- 1. ALL METAL DECK SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"...

CARPENTRY

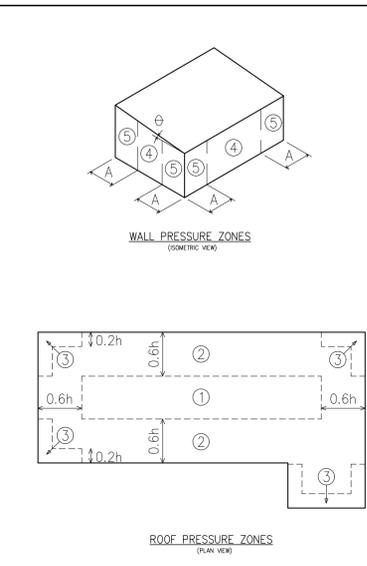
- 1. DIMENSIONED LUMBER SHALL BE DRESSED S4S, AND SHALL BEAR THE GRADE STAMP OF THE MANUFACTURER'S ASSOCIATION.

COLD-FORM STEEL FRAMING

- 1. ALL STEEL FRAMING SHALL CONFORM TO "THE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"...

PROTECT LIGHT GAUGE STEEL FRAMING MEMBERS FROM RUSTING AND DAMAGE...

- 7. WITH EACH TYPE OF STEEL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, UNITELS, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES...



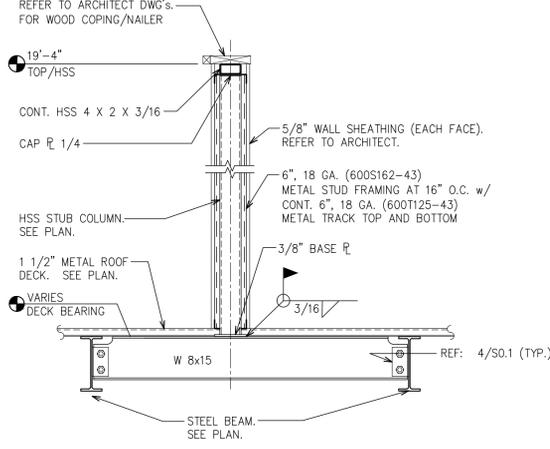
1 DESIGN WIND CRITERIA (ASD VALUES) NOT TO SCALE

BUILDING DATA table with columns: ULTIMATE WIND SPEED (mph), WIND LOAD FACTOR, RISK CATEGORY, ROOF ANGLE, MEAN ROOF HEIGHT, INTERNAL PRESSURE COEFFICIENT, WIND EXPOSURE CATEGORY, WIDTH OF WALL EDGE STRIP, DEAD LOAD RESISTING UPLIFT, EDGE DISTANCE.

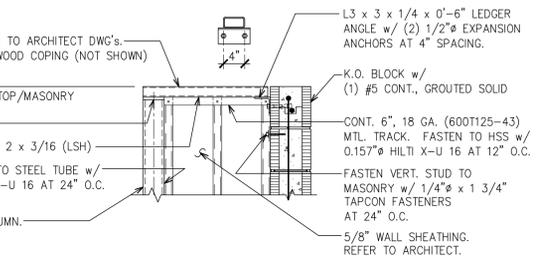
DESIGN WIND LOADS - COMPONENTS & CLADDING (Values per ASD)

Table with columns: ZONE, AREA (sf), DESIGN PRESSURE (psf) for Positive, Negative, Net Uplift.

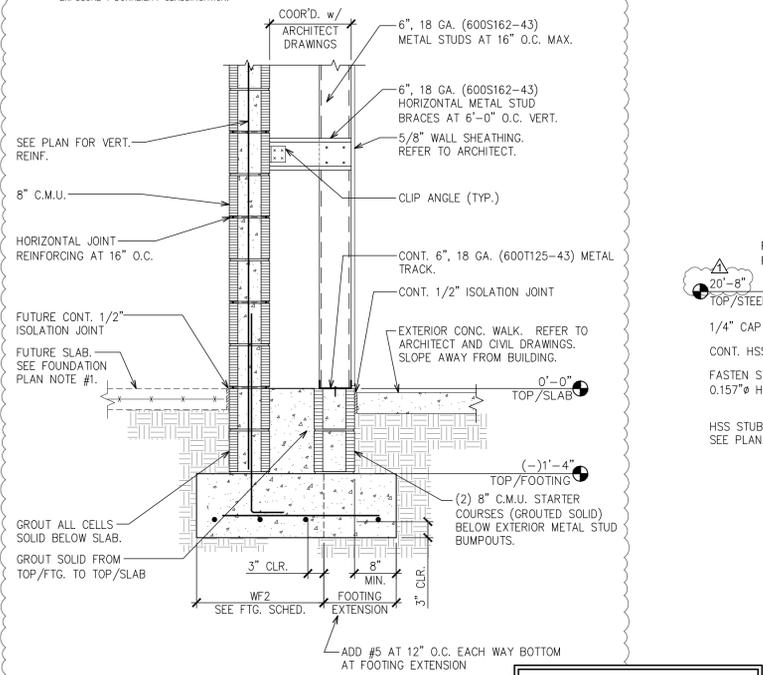
- NOTES: 1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED...



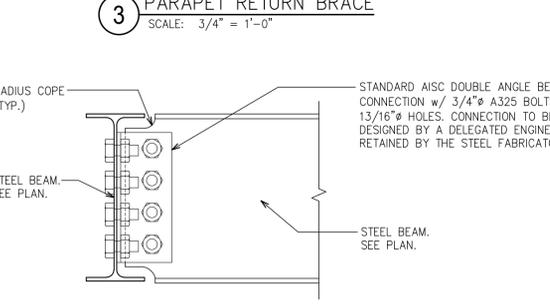
2 PARAPET RETURN BRACE SCALE: 3/4" = 1'-0"



3 PARAPET RETURN BRACE SCALE: 3/4" = 1'-0"



5 SECTION AT METAL STUD BUMP-OUT SCALE: 3/4" = 1'-0"



4 DBL. ANGLE BEAM CONNECTION NOT TO SCALE

SHEET INDEX table with columns: SHEET NUMBER, SHEET TITLE.

FWH Architects logo and contact information: 3336 Grand Blvd, Suite 201, Hollywood, Florida 34690.

STARBUCKS SHELL CONSTRUCTION logo and address: WESTSIDE BLVD & US HWY 192, KISSIMMEE, FL.

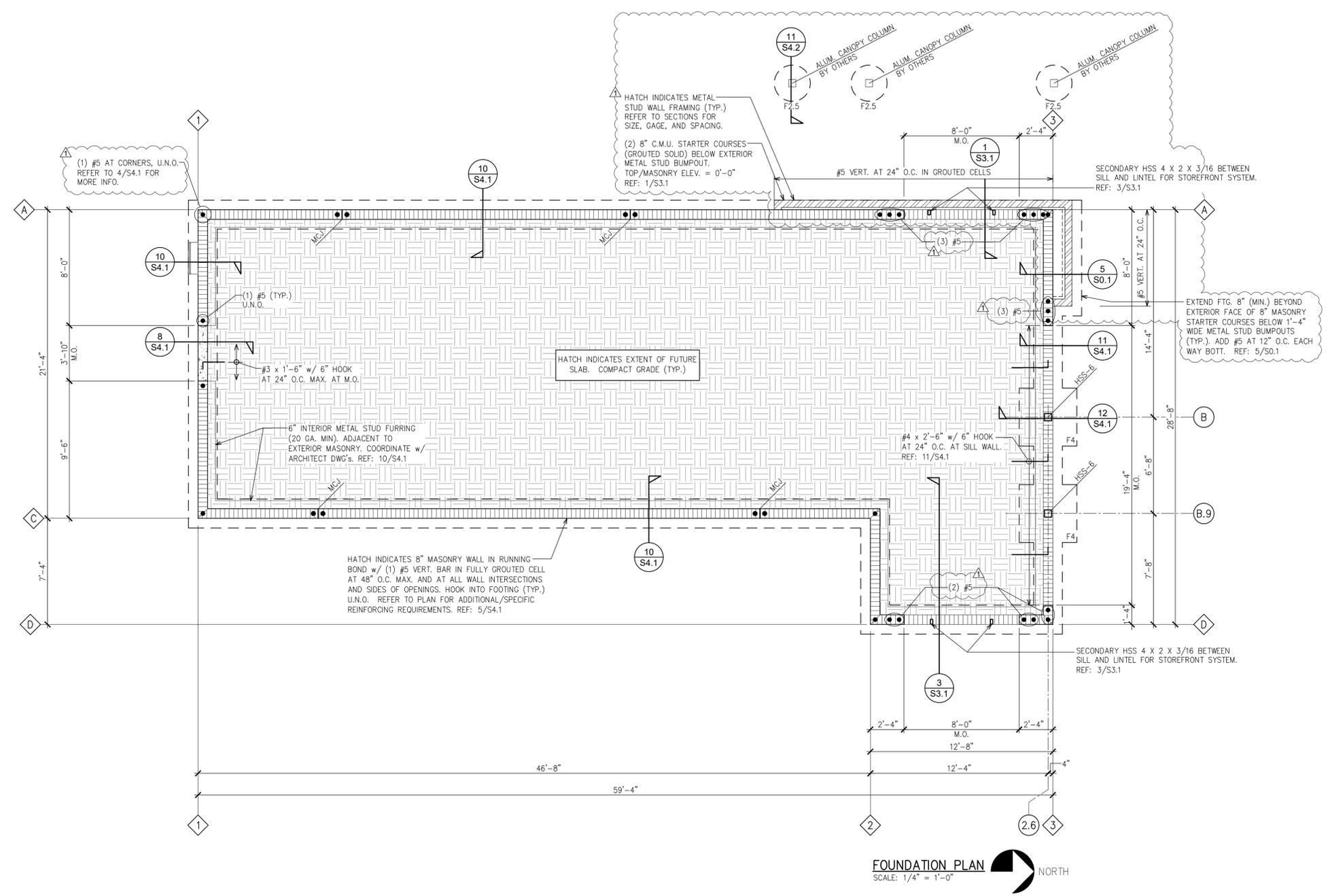
ALAN C. GUENTHER, P.E. FL PE #53308.

Table with columns: no., date, revision descriptions.

STARBUCKS SHELL CONSTRUCTION logo and address: WESTSIDE BLVD & US HWY 192, KISSIMMEE, FL.

STRUCTURAL NOTES table and EAG PROFESSIONAL ENGINEERING, INC. logo.

no.	date	revision descriptions
1	10.06.2023	REVISED PER PLANNING COMMENTS AND MSC. TENANT COROR.



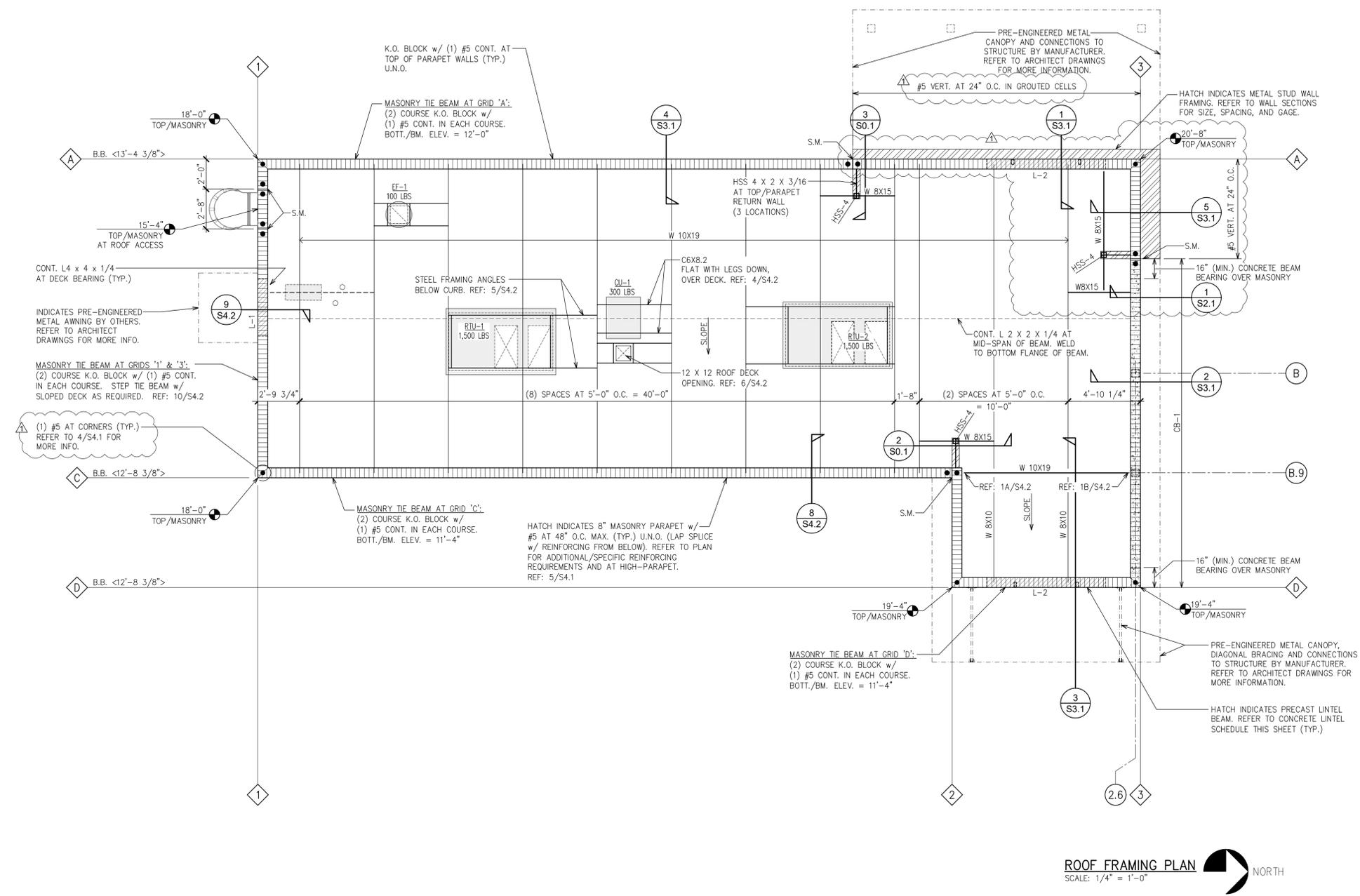
NO.	DATE	REVISION DESCRIPTIONS
1	10.06.2023	REVISED PER PLANNING COMMENTS AND MISC. TENANT CORRECTIONS

STARBUCKS SHELL CONSTRUCTION
WESTSIDE BLVD & US HWY 192
KISSIMMEE, FL

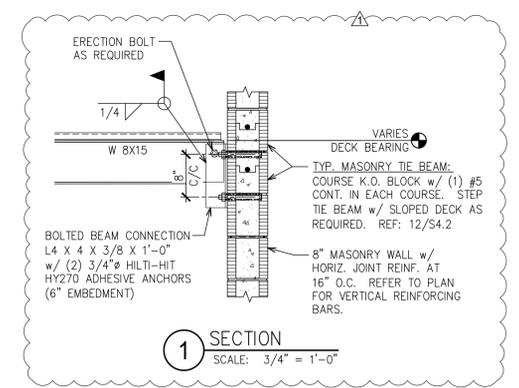
03.10.23
date
22062
comm. no.

ROOF FRAMING PLAN

S2.1

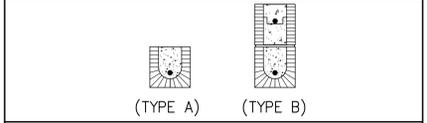


ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0" NORTH



CONCRETE LINTEL SCHEDULE

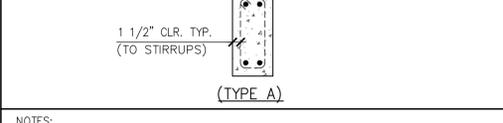
MARK	SIZE	REINFORCING BARS	COMMENTS
L-1	8" X 8"	(1) #5 CONT.	TYPE A
L-2	8" X 16"	(2) #5 CONT.	TYPE B



NOTES:
1. REFER TO 6/S4.1 FOR ADDITIONAL PRECAST LINTEL REQUIREMENTS.
2. ALL LINTELS AND KNOCK-OUT BLOCKS TO BE GROUTED SOLID.

CONCRETE BEAM SCHEDULE

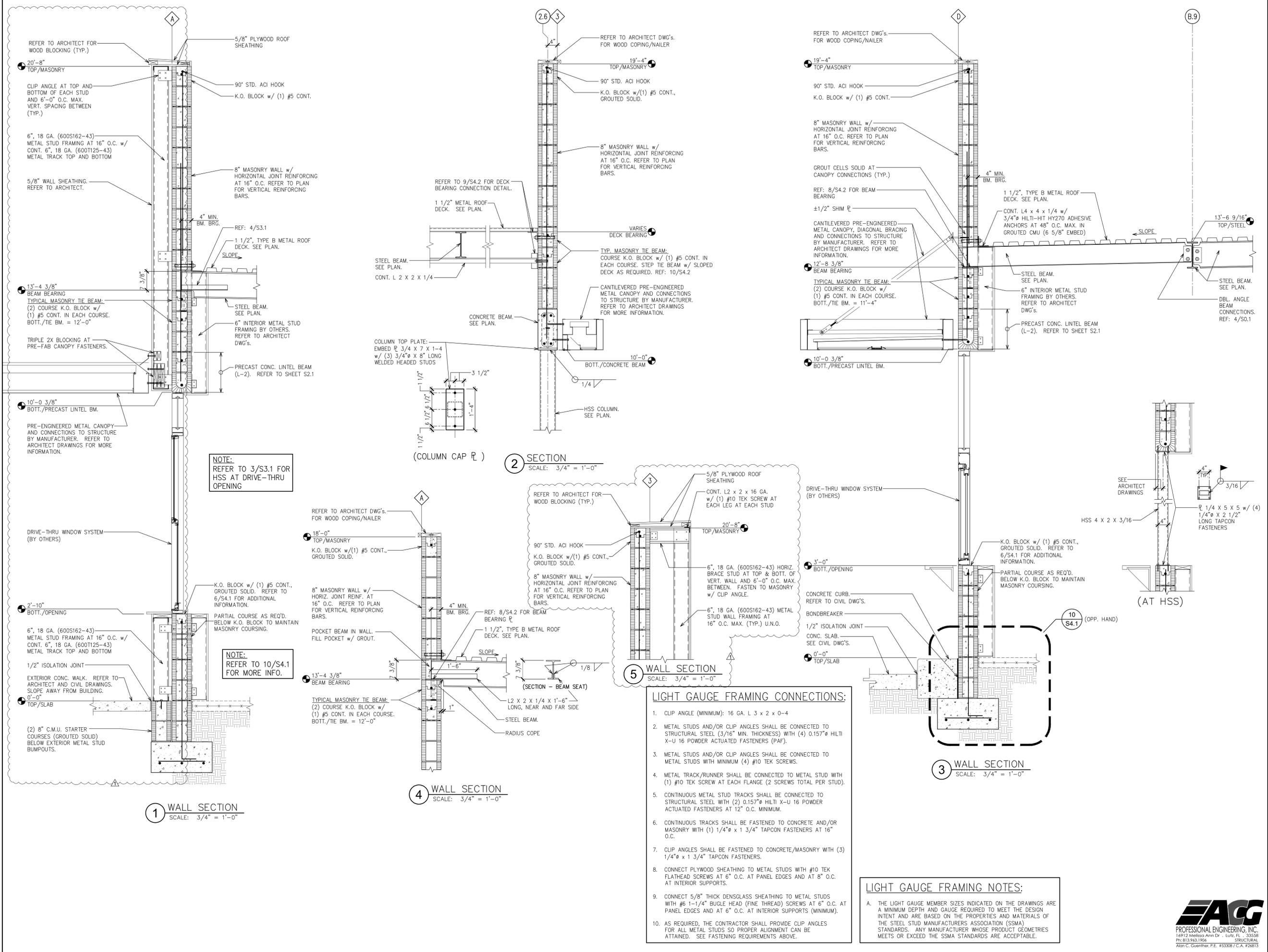
MARK	SIZE	REINFORCING		COMMENTS
		CONT. BARS	STIRRUPS	
CB-1	8" X 16"	(2) #6 TOP & BOT.	#3 AT 6" O.C.	TYPE A (BOTT./BM. = 10'-0")



NOTES:
1. REFER TO 2/S4.2 FOR TYPICAL CONCRETE BEAM REINFORCING DETAIL.
2. BEAM DEPTHS MAY BE INCREASED AS REQUIRED FOR MASONRY COURSING. COORDINATE WITH ARCHITECTURAL REQUIREMENTS.

ROOF FRAMING PLAN NOTES:

- METAL ROOF DECK AT MAIN BUILDING SHALL BE 1 1/2" DEEP, 22 GA., GALVANIZED (G60), TYPE "B". FASTEN ROOF DECK w/ (7) 5/8" DIAMETER PUDDLE WELDS AT EACH SUPPORT AND (5) #10 TEK SCREW SIDELAP FASTENERS EQUALLY SPACED BETWEEN SUPPORTS. REFER TO 3/S4.2
- BEAM SPACING = SEE PLAN
- ROOF SLOPE = 1/4" PER FOOT (MIN.) U.N.O.
- CONTRACTOR TO COORDINATE SIZE, WEIGHT, AND LOCATION OF MECHANICAL EQUIPMENT AND PENETRATIONS WITH MECHANICAL EQUIPMENT SHOP DRAWINGS PRIOR TO BEAM FABRICATION. REFER TO DETAILS 5/S4.2.
- MECHANICAL CONTRACTOR SHALL VERIFY THAT WEIGHT OF ACTUAL EQUIPMENT INSTALLED DOES NOT EXCEED MAXIMUM OPERATING WEIGHT OF EQUIPMENT SHOWN ON PLAN.
- B.B. < > = BEAM BEARING ELEVATION U.N.O. REFER TO PLAN.
- S.M. = INDICATES STEP TOP/MASONRY PARAPET.
- REFER TO 1/S0.1 FOR DESIGN WIND CRITERIA.



1 WALL SECTION
SCALE: 3/4" = 1'-0"

4 WALL SECTION
SCALE: 3/4" = 1'-0"

2 SECTION
SCALE: 3/4" = 1'-0"

5 WALL SECTION
SCALE: 3/4" = 1'-0"

3 WALL SECTION
SCALE: 3/4" = 1'-0"

10 S4.1 (OPP. HAND)

LIGHT GAUGE FRAMING CONNECTIONS:

- CLIP ANGLE (MINIMUM): 16 GA. L 3 x 2 x 0-4
- METAL STUDS AND/OR CLIP ANGLES SHALL BE CONNECTED TO STRUCTURAL STEEL (3/16" MIN. THICKNESS) WITH (4) 0.157" HILTI X-U 16 POWDER ACTUATED FASTENERS (PAF).
- METAL STUDS AND/OR CLIP ANGLES SHALL BE CONNECTED TO METAL STUDS WITH MINIMUM (4) #10 TEK SCREWS.
- METAL TRACK/RUNNER SHALL BE CONNECTED TO METAL STUD WITH (1) #10 TEK SCREW AT EACH FLANGE (2 SCREWS TOTAL PER STUD).
- CONTINUOUS METAL STUD TRACKS SHALL BE CONNECTED TO STRUCTURAL STEEL WITH (2) 0.157" HILTI X-U 16 POWDER ACTUATED FASTENERS AT 12" O.C. MINIMUM.
- CONTINUOUS TRACKS SHALL BE FASTENED TO CONCRETE AND/OR MASONRY WITH (1) 1/4" x 1 3/4" TAPCON FASTENERS AT 16" O.C.
- CLIP ANGLES SHALL BE FASTENED TO CONCRETE/MASONRY WITH (3) 1/4" x 1 3/4" TAPCON FASTENERS.
- CONNECT PLYWOOD SHEATHING TO METAL STUDS WITH #10 TEK FLATHEAD SCREWS AT 6" O.C. AT PANEL EDGES AND AT 8" O.C. AT INTERIOR SUPPORTS.
- CONNECT 5/8" THICK DENSGLASS SHEATHING TO METAL STUDS WITH #6 1-1/4" BUGLE HEAD (FINE THREAD) SCREWS AT 6" O.C. AT PANEL EDGES AND AT 6" O.C. AT INTERIOR SUPPORTS (MINIMUM).
- AS REQUIRED, THE CONTRACTOR SHALL PROVIDE CLIP ANGLES FOR ALL METAL STUDS SO PROPER ALIGNMENT CAN BE ATTAINED. - SEE FASTENING REQUIREMENTS ABOVE.

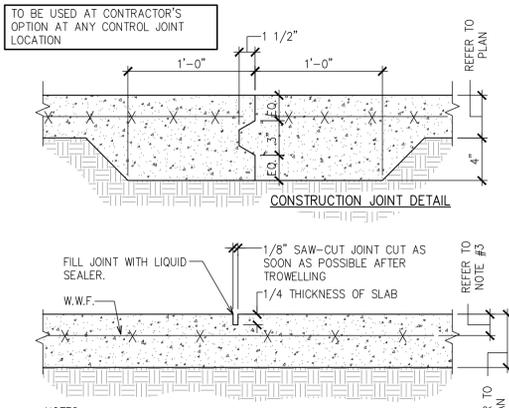
LIGHT GAUGE FRAMING NOTES:

A. THE LIGHT GAUGE MEMBER SIZES INDICATED ON THE DRAWINGS ARE A MINIMUM DEPTH AND GAUGE REQUIRED TO MEET THE DESIGN INTENT AND ARE BASED ON THE PROPERTIES AND MATERIALS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) STANDARDS. ANY MANUFACTURER WHOSE PRODUCT GEOMETRIES MEETS OR EXCEEDS THE SSMA STANDARDS ARE ACCEPTABLE.

NOTE:
REFER TO 3/S3.1 FOR HSS AT DRIVE-THRU OPENING

NOTE:
REFER TO 10/S4.1 FOR MORE INFO.

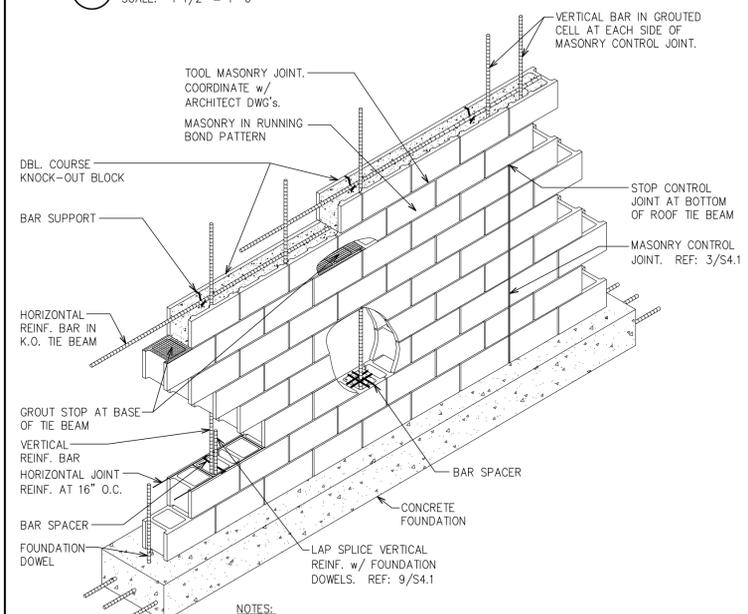
NO.	DATE	REVISION DESCRIPTIONS
1	10.06.2023	REVISED PER PLANNING COMMENTS AND MSC. TENANT COORD.



- NOTES:**
- CUT SLAB AS SOON AS AGGREGATE DOES NOT DISLodge (MUST BE WITHIN 12 HOURS OF CONCRETE PLACEMENT).
 - HAND TOOL JOINT TO FACE OF WALL WHERE SAW DOES NOT REACH.
 - PLACE REINFORCING AT MID-DEPTH FOR SLABS LESS THAN 5" THICK. PLACE REINFORCING 1/3 SLAB DEPTH (FROM TOP) FOR SLABS 5" THICK OR GREATER.

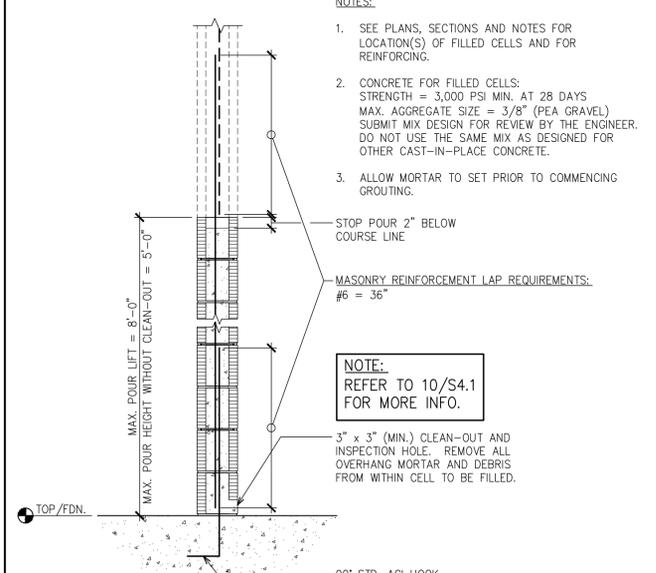
CONTROL JOINT DETAIL

1 FUTURE CONTROL AND CONSTRUCTION JOINT
SCALE: 1 1/2" = 1'-0"



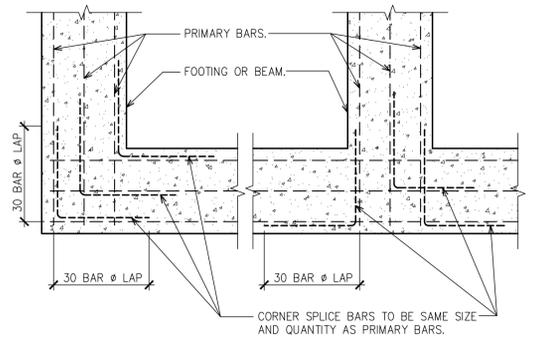
- NOTES:**
- PROVIDE FULL MORTAR JOINT AT BED AND HEAD JOINTS FOR FIRST COURSE OF BLOCK.
 - GROUT MASONRY SOLID BELOW GRADE.

5 TYPICAL MASONRY CONSTRUCTION
NOT TO SCALE



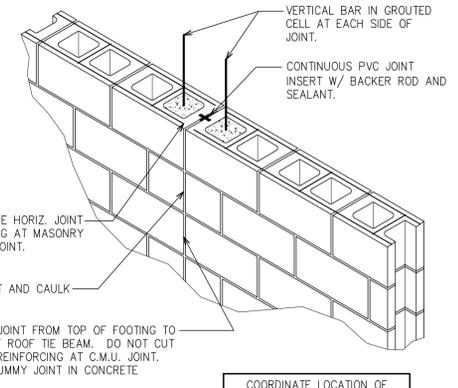
NOTE: REFER TO 10/S4.1 FOR MORE INFO.

9 MASONRY LIFT DETAIL
SCALE: 3/4" = 1'-0"

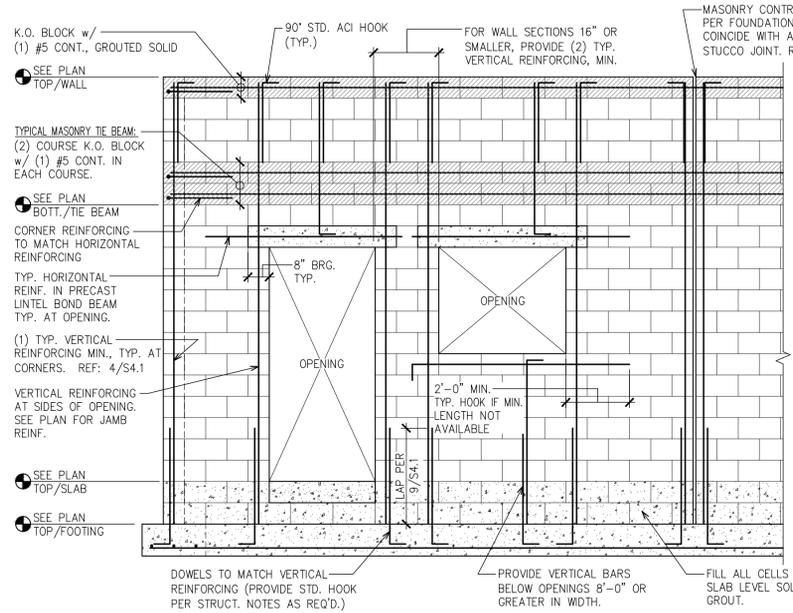


TYPICAL INTERSECTION OF CORNER BARS AT WALLS, BEAMS, AND FOOTINGS

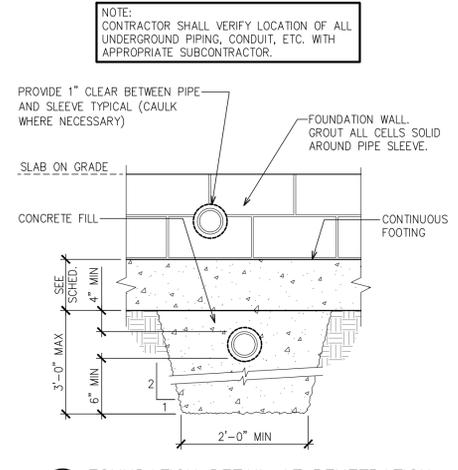
2 CORNER BAR DETAIL
NOT TO SCALE



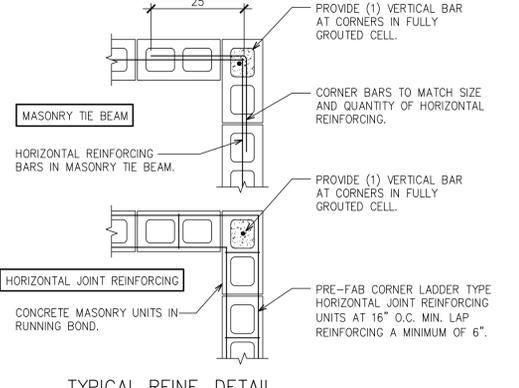
3 MASONRY CONTROL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



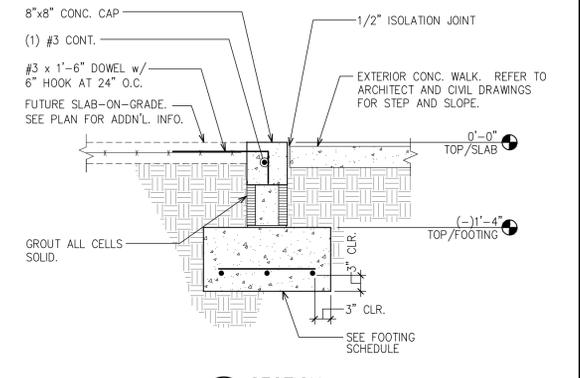
6 TYPICAL MASONRY REINFORCING AT OPENINGS - ELEVATION
NOT TO SCALE



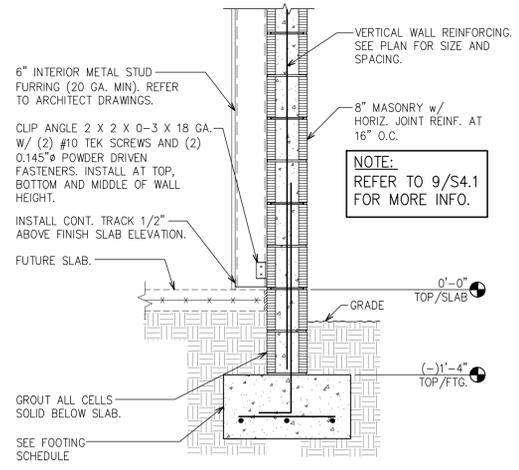
7 FOUNDATION DETAIL AT PENETRATION
NOT TO SCALE



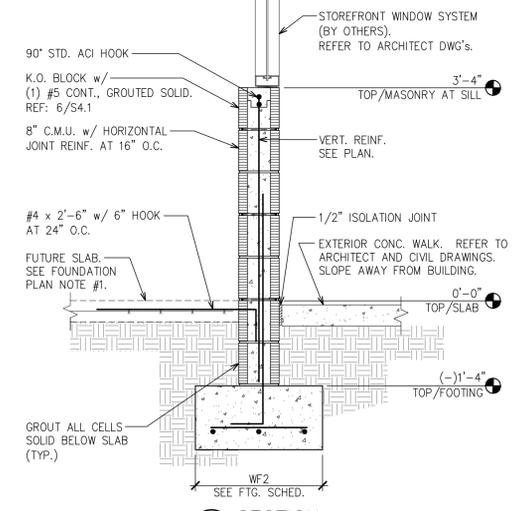
4 TYPICAL REINF. DETAIL AT CORNERS AND INTERSECTIONS
SCALE: N.T.S.



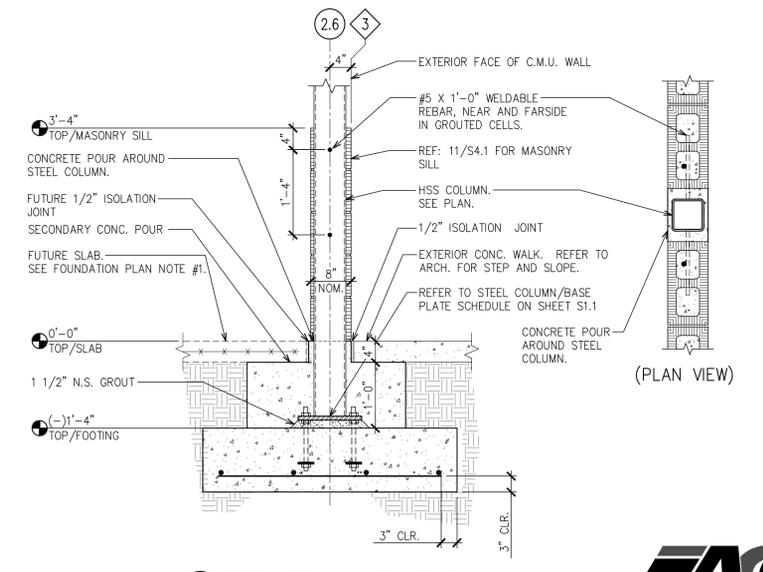
8 SECTION
SCALE: 3/4" = 1'-0"



10 EXTERIOR WALL FOOTING
SCALE: 3/4" = 1'-0"

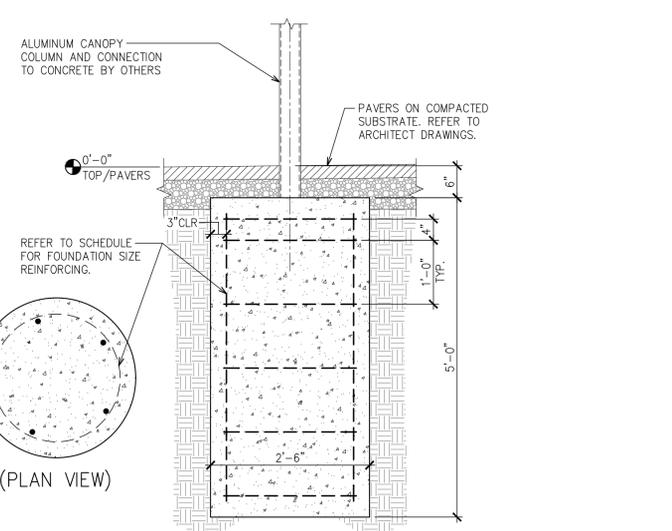
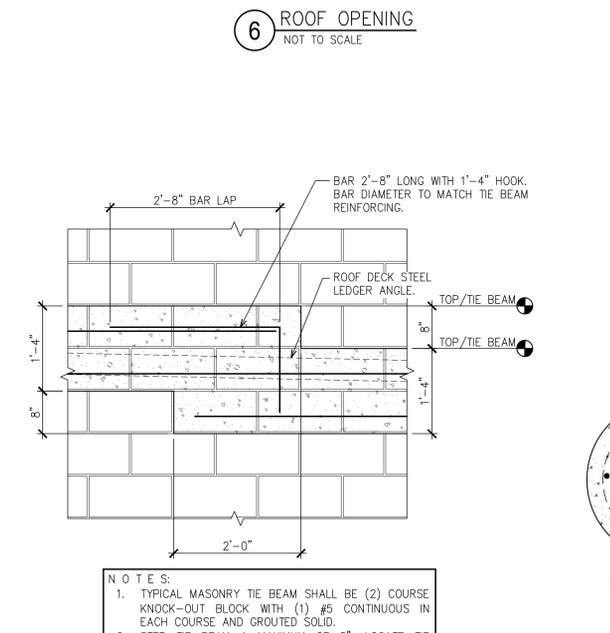
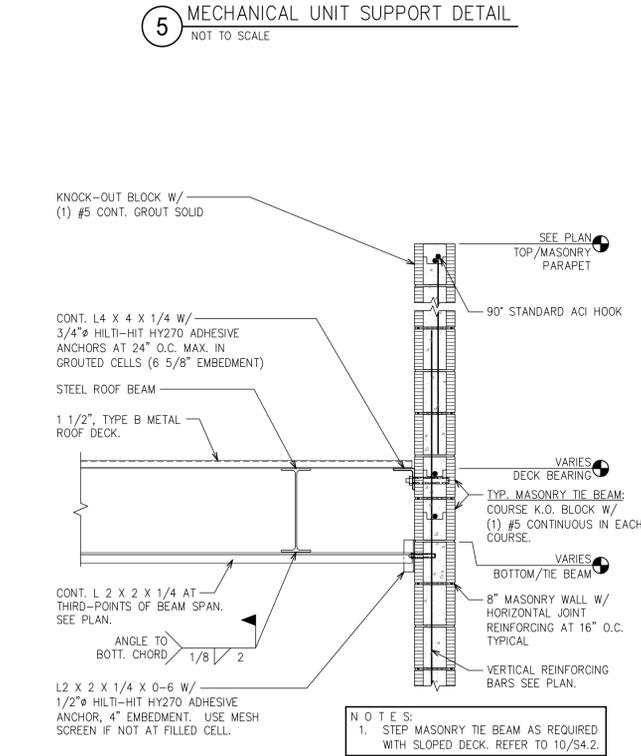
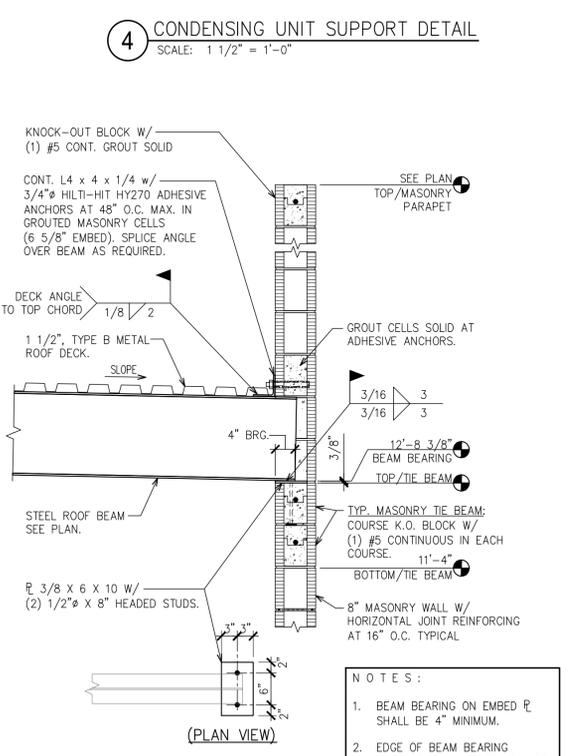
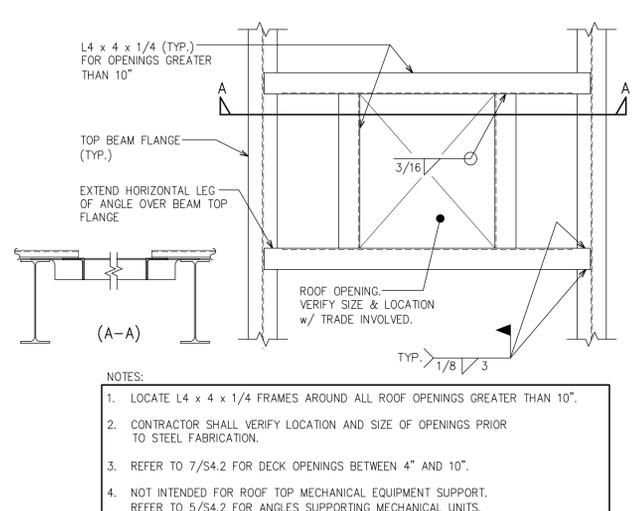
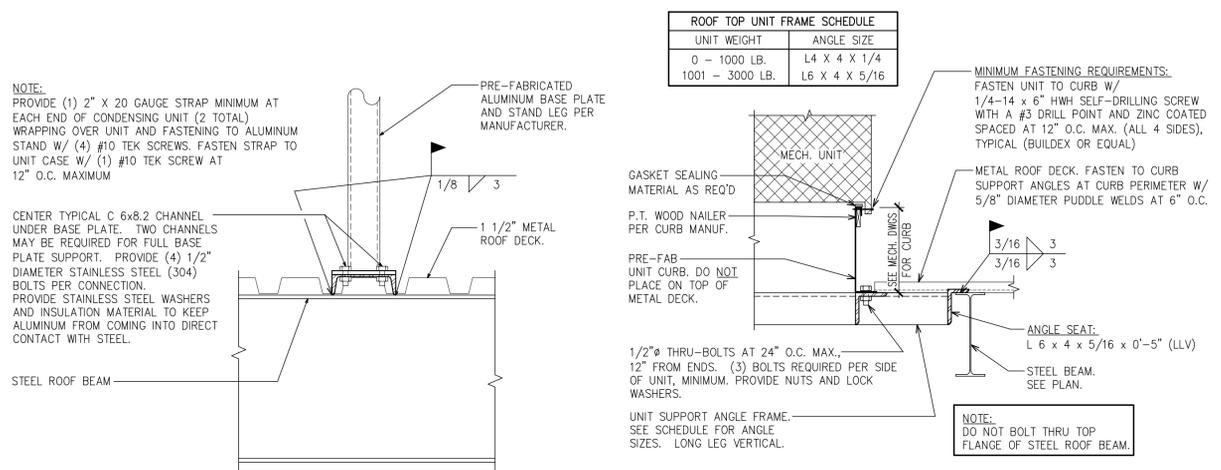
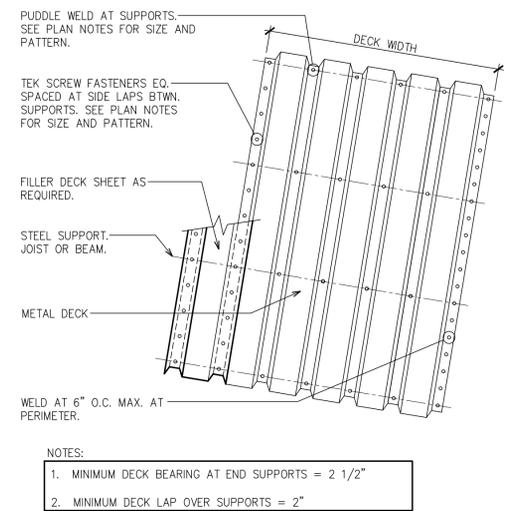
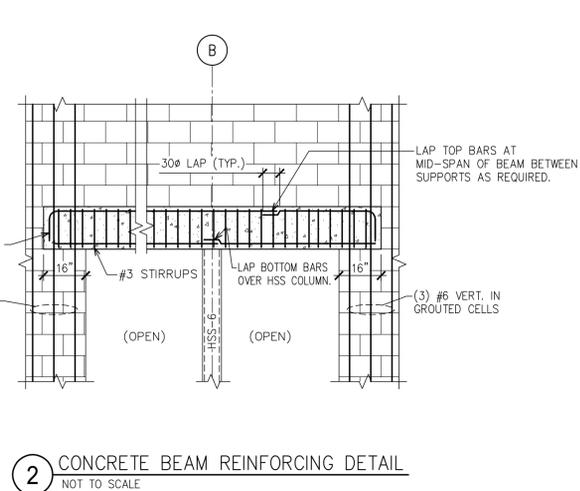
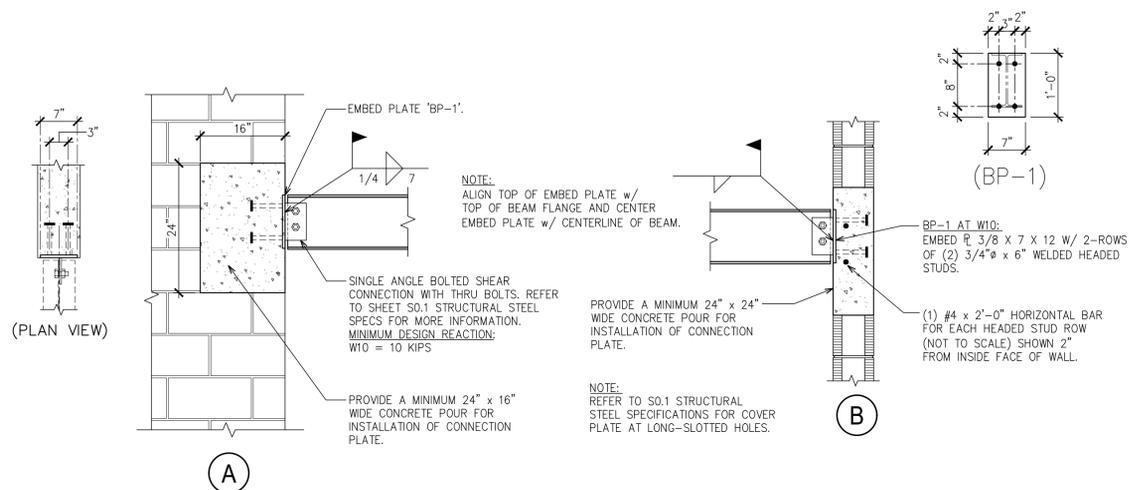


11 SECTION
SCALE: 3/4" = 1'-0"



12 STEEL COLUMN FOUNDATION
SCALE: 3/4" = 1'-0"

no.	date	revision descriptions



no.	date	revision descriptions

MECHANICAL SPECIFICATIONS

SCOPE: THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING A PROPOSAL. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), WITH ALL AMENDMENTS, AND LOCAL CODES AND ORDINANCES. THE SYSTEMS, EQUIPMENT, DEVICES AND ACCESSORIES SHALL BE INSTALLED, FINISHED, TESTED AND ADJUSTED FOR CONTINUOUS AND PROPER OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE AND SHALL COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCE WITH THEIR WORK. THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS ARE DIAGRAMMATIC, INTENDED TO SHOW GENERAL ARRANGEMENT, CAPACITY AND LOCATION OF VARIOUS COMPONENTS, EQUIPMENTS, AND DEVICES. IF WORK IS REQUIRED IN A MANNER TO MAKE IT IMPOSSIBLE TO PRODUCE FIRST CLASS WORK, OR SHOULD DISCREPANCIES APPEAR AMONG THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S RECOMMENDATIONS, THE CONTRACTOR SHALL REQUEST INTERPRETATION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL FURNISH AND INSTALL ALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT SPECIFIED IN THE DOCUMENTS.

REQUIRED COORDINATION: ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION PLANS: IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.

REQUIRED ACCESS: CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT AND DEVICES THAT REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES, IF REQUIRED. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS, EVEN IF NOT INDICATED ON THE DRAWINGS AT NO ADDITIONAL COST TO OWNER.

WIND RESISTANCE: ALL EQUIPMENT, APPLIANCE AND SUPPORTS LOCATED EXTERIOR OF THE FACILITY SHALL BE INSTALLED TO RESIST WIND LOADS AS DETAILED IN THE BUILDING CODE.

CUTTING AND PATCHING: ALL OPENINGS AROUND DUCT OR PIPE PENETRATIONS THROUGH SMOKE OR FIRE RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIALS HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING OR FLOOR PENETRATED.

EQUIPMENT TAGS: ALL EQUIPMENT WILL HAVE A PERMANENTLY FIXED ENGRAVE PHENOLIC LABEL CORRESPONDING TO THE EQUIPMENT TAG ON THE ENGINEER'S DRAWINGS.

FIRESTOPPING: UL APPROVED MATERIALS AND METHODS SHALL PROTECT THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS, CEILINGS OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE RATED ASSEMBLY. ALL INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E-84, NFPA-225, UL-723 NOT EXCEEDING:

FLAME SPREAD 25
 SMOKE DEVELOPED 50
 FUEL DISTRIBUTED 50
 ACCESSORIES SUCH AS ADHESIVE, MASTIC, CEMENTS AND TAPES SHALL HAVE THE SAME COMPONENT RATING AS LISTED ABOVE.

START-UP: CONTRACTOR SHALL STARTUP ALL EQUIPMENT AND FOLLOW THE MANUFACTURER'S START-UP PROCEDURES.

OPERATING AND MAINTENANCE DATA: SUBMIT THREE COPIES OF MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS AND SPARE PARTS LIST FOR EACH PIECE OF EQUIPMENT.

CONDENSATE DRAIN PIPING: CONDENSATE DRAIN PIPING SHALL BE PVC TYPE DWV. DRAINS SHALL BE PITCHED NOT LESS THAN 1" IN 10'. RUNS SHALL BE AS SHORT AS POSSIBLE WITHOUT ANY DIPS TO TRAP WATER AND INTERFERE WITH PROPER DRAINAGE. PROVIDE TRAPS AND CLEANOUTS AT DRAIN PAN CONNECTIONS. RUN CONDENSATE DRAIN PER PLANS.

DIMENSIONAL DATA: ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

SUPPLEMENTARY SUPPORTS: CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS, IN ORDER TO PROVIDE A "VIBRATION-FREE" RIGID INSTALLATION.

DUCTWORK - GENERAL: FABRICATE AND INSTALL ALL DUCTWORK AND DUCT ACCESSORIES IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE, THE LATEST NFPA STANDARDS, AND THIS SPECIFICATION. THE MOST STRINGENT OF THESE SHALL BE THE MINIMUM STANDARD. MINIMUM OF 2" PRESSURE CLASS RATING FOR ALL FIBERGLASS DUCTWORK AND 2" FOR ALL SHEET METAL.

ALL NEW RIGID DUCTWORK SHALL BE GALVANIZED SHEET METAL STEEL OF LOCKFORMING GRADE CONFORMING TO ASTM A653 AND ASTM A924. G-60 ZINC COATING. REFER TO INSULATION SECTION BELOW FOR INSULATION REQUIRED ON SUPPLY AND RETURN DUCTWORK.

DUCTWORK INSTALLATION: ALL INTERIOR DUCTWORK SHALL BE SEALED TO SMACNA CLASS (C) REQUIREMENTS. PROVIDE DOUBLE THICKNESS TURNING VANES IN ALL NINETY (90) DEGREE SQUARE ELBOWS. CONTRACTOR SHALL FURNISH AND INSTALL ALL DUCT OFFSETS AS REQUIRED TO CLEAR INTERFERENCES WITH EXISTING BUILDING STRUCTURE, PIPES AND ELECTRICAL CONDUITS. FURNISH AND INSTALL ALL MISCELLANEOUS STEEL SUPPORTS REQUIRED FOR HANGING AND SUPPORTING DUCTWORK UNLESS OTHERWISE NOTED.

INSULATION: ASSURE ALL DUCTWORK IS SEALED PRIOR TO INSTALLING INSULATION. ALL SHEET METAL SUPPLY & RETURN DUCTWORK SHALL BE WRAPPED WITH 2" THICK FIBERGLASS BLANKET INSULATION WITH FSK (ASJ) FACING, MINIMUM INSTALLED R VALUE OF 6.0, AND FLAME SPREAD/SMOKE DEVELOPED RATINGS OF 25/50 BY ASTM E-84. ALL SHEET METAL SUPPLY & RETURN DUCTWORK SHALL ALSO BE LINED WITH 1.5" ACOUSTICAL DUCT LINER, TO BE UL-181 LISTED. INSTALL INSULATION ON DUCTWORK USING ADHESIVE AND/OR WELD PINS WITH WASHERS. SEAL ALL INSULATION JOINTS, SEAMS AND FASTENER PIN PENETRATIONS WITH VAPOR RETARDING PRESSURE SENSITIVE TAPE OR WITH GLASS FABRIC AND MASTIC.

SMOKE DETECTORS: INSTALL SMOKE DETECTORS AS RECOMMENDED BY MANUFACTURER TO ACQUIRE PROPER READINGS. LOCATION OF DUCT MOUNTED SMOKE DETECTORS ARE FOR REFERENCE LOCATION ONLY. FINAL PLACEMENT SHALL MEET ALL REQUIREMENTS IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE 12"x12" ACCESS DOOR FOR INSPECTION AND SERVICE. SMOKE DETECTORS SHALL BE FURNISHED & WIRED BY ELECTRICIAN/FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. WIRE SMOKE DETECTORS TO SHUTOFF UNIT WITH THE DETECTION OF SMOKE.

CONTROLS: PROVIDE CONTROLS COMPLETE TO SUIT THE EQUIPMENT PROVIDED AND TO ACCOMPLISH THE SEQUENCE OF OPERATION AS REQUIRED BY PLANS AND SYSTEMS. LOCATE THERMOSTATS 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. THERMOSTATIC CONTROLS SHALL BE PROGRAMMABLE TO INCLUDE ALL ITEMS REQUIRED BY 2023 FBC-ENERGY CODE.

TESTING AND BALANCING: THE CONTRACTOR SHALL ENSURE THAT ALL DEVICES AND SYSTEMS ARE COMPLETE, TESTED AND BALANCED, AND READY FOR OPERATION WHEN THE FACILITY IS HANDED OVER TO THE OWNER. THE AIR CONDITIONING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH AABC OR NEBB PROCEDURES. WRITTEN REPORT SHALL BE SUBMITTED TO MECHANICAL ENGINEER FOR APPROVAL.

SUBMITTALS REQUIRED: SUBMIT SHOP DRAWINGS FOR ALL MATERIALS, EQUIPMENT, AND SYSTEMS REQUIRED BY THESE DOCUMENTS (SEE ARCH. PLANS/SPECS FOR SPECIFIC FORMATTING), INCLUDING:
 ROOFTOP UNITS
 EXHAUST FANS
 ROOF A/C STANDS
 DUCTWORK & SHEET METAL ACCESSORIES (CONNECTIONS, MASTICS, ETC.)
 THERMOSTATS & CONTROLS

SUBSTITUTIONS: RTU'S MUST BE MANUFACTURED BY TRANE - NO EXCEPTIONS! FOR ALL OTHER EQUIPMENT, CONTRACTOR SHALL PAY FOR ANY AND ALL ADDED COSTS ASSOCIATED WITH ANY SUBSTITUTION, INCLUDING SUBSTITUTIONS THAT REQUIRE CHANGES TO THE OTHER BUILDING COMPONENTS, SUCH AS ELECTRICAL, STRUCTURAL REINFORCING, CEILINGS, WALLS, ROOFS, ETC. THIS WILL INCLUDE ANY ENGINEERING/ARCHITECTURAL RE-DESIGN COSTS AS A RESULT OF SAID SUBSTITUTION. THESE COSTS SHALL NOT BE BORNE BY THE OWNER, ARCHITECT, NOR ENGINEER, REGARDLESS OF ACCEPTABILITY OF SUBSTITUTION. ENGINEER RESERVES THE RIGHT TO ACCEPT OR DENY ANY SUBSTITUTION THAT HE DOES NOT DEEM TO BE EQUIVALENT, AND CONTRACTOR SHALL PROVIDE SPECIFIED OR EQUIVALENT MATERIALS/EQUIPMENT AT NO ADDITION COST TO OWNER, SHOULD A SUBSTITUTION BE DENIED.

GUARANTEE: THE ONE-YEAR GUARANTEE PERIOD SHALL NOT START UNTIL THE PROJECT IS FULLY COMPLETED AND THE CONTRACTOR HAS RECEIVED THE FINAL PAYMENT. ALL NEW EQUIPMENT AND ALL WORK SHALL BE FULLY GUARANTEED, PARTS AND LABOR, FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM THE DATE OF THE FINAL PAYMENT, AT NO ADDITIONAL COST TO OWNER. REPAIRS MADE DURING THIS PERIOD MUST BE FULLY GUARANTEED FROM DEFECTS IN MATERIAL AND WORKMANSHIP AT NO EXPENSE TO THE OWNER, FOR AN ADDITIONAL ONE YEAR PERIOD FROM THE DATE OF REPAIRS AT NO ADDITIONAL COST TO OWNER. IN ADDITION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDING, AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIAL INSTALLED. ALL NEW HVAC UNITS SHALL INCLUDE 5-YEAR WARRANTY ON COMPRESSORS AND 1-YEAR WARRANTY ON ALL OTHER PARTS AND LABOR FOR UNIT.

HVAC LEGEND

	NEW DUCTWORK, WITH SIZE LISTED
	DUCT SMOKE DETECTOR
	THERMOSTAT BASE
	CARBON DIOXIDE SENSOR
	BRITISH THERMAL UNITS / HOUR
	ROUND, DIAMETER
	CONDENSATE DRAIN PIPING
	CUBIC FEET PER MINUTE
	TYPICAL - ITEM OR METHOD
	REMOTE SENSOR
	SUPPLY AIR DIFFUSER OR GRILLE
	RETURN/EXH. AIR REGISTER OR GRILLE
	FLEXIBLE DUCT
	AIRFLOW DIRECTION
	ABOVE FINISHED FLOOR
	ROUND DUCT TAKE-OFF WITH VOLUME DAMPER
	MANUAL VOLUME DAMPER (W/HANDLE)

DIFFUSER TAG	EQUIPMENT TAG

FWH Architects

3336 Grand Blvd, Suite 201
 Holiday, Florida 34690
 Ph. 727. 815. 3336
 Fax 727. 815. 3337

Investments

5555 S. KIRKMAN RD. SUITE 201
 ORLANDO, FL 32819
 PHONE: 407.542.2200

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECT AND ENGINEER, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY ORDINANCES.

MATTHEW D. LEWIS
 LICENSE No. 56189
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

1	02.05.2024	REVISION PER BUILDING PERMIT COMMENTS	no.	date	revision descriptions
---	------------	---------------------------------------	-----	------	-----------------------

STARBUCKS SHELL CONSTRUCTION

WESTSIDE BLVD & US HWY 192
 KISSIMMEE, FL

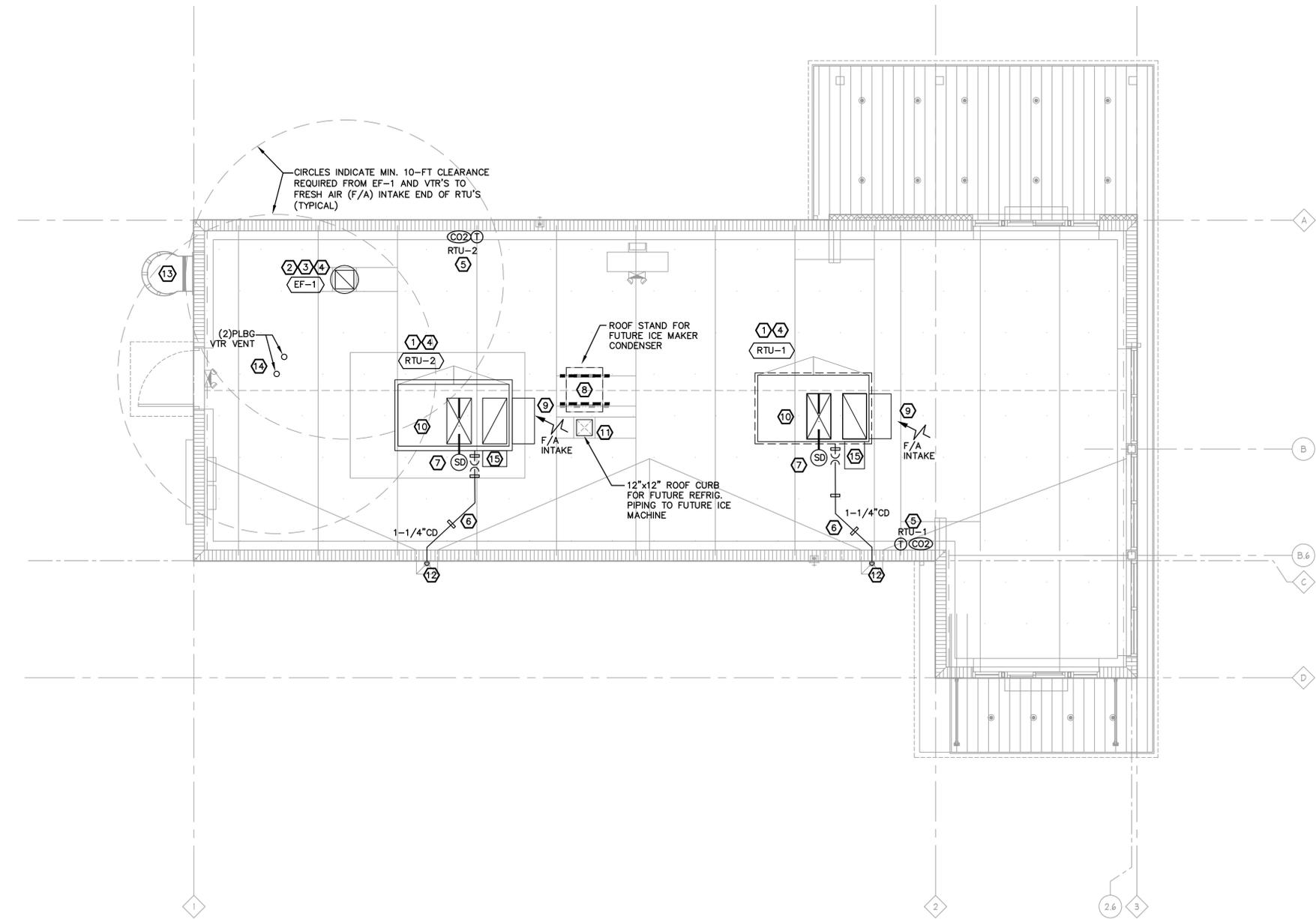
03.10.23
 date
 22062
 comm. no.

MECHANICAL SPECIFICATIONS

M1.0

KEY NOTES ON PLANS:

- 1 PACKAGED ROOFTOP A/C UNIT - COORDINATE FINAL LOCATION WITH G.C.
- 2 ROOF MOUNT EXHAUST FAN - LOCATE MIN. 10-FT FROM RTU INTAKES.
- 3 PROVIDE 4-FT LONG FULL SIZE (MIN. 12"x12") DUCT DROP DOWN BELOW ROOF.
- 4 COORDINATE UNIT INSTALLATION REQUIREMENTS WITH G.C. AND STRUCTURAL PLANS AND DETAILS.
- 5 INSTALL THERMOSTAT & CO2 SENSOR TEMPORARILY ON WALL WITH 150-FT EXTRA WIRING COILED AT UNIT. (TYPICAL)
- 6 ROUTE CONDENSATE PIPING ON ROOF PIPE SUPORTS AT 4-FT INTERVALS.
- 7 INSTALL DUCT SMOKE DETECTOR IN SUPPLY DUCT DROP. (TYPICAL-2 RTU'S)
- 8 MECHANICAL CONTRACTOR SHALL FURNISH AND G.C. TO INSTALL NEW ROOF STAND FOR FUTURE TENANT ICE MACHINE CONDENSER.
- 9 OUTSIDE AIR INTAKE ON THIS END OF RTU - COORDINATE INSTALL TO ENSURE MIN. 10-FT CLEAR FROM EXHAUST FAN AND PLUMBING VENT STACKS.
- 10 PROVIDE 4-FT LONG FULL-SIZE DUCT DROPS WITH OPEN ENDS INTO CEILING CAVTY FOR FUTURE TENANT CONNECTION.
- 11 12"x12" PIPE CURB FOR FUTURE ICE MACHINE CONDENSER.
- 12 SPILL CONDENSATE MANIFOLD THROUGH SCUPPER AND INTO DOWNSPOUT. (CONNECTS TO UNDERGROUND STORM)
- 13 PERMANENT LADDER ON WALL FOR ROOF ACCESS WITH OPENING IN PARAPET.
- 14 PLUMBING VENT THROUGH ROOF LOCATED 10-FT FROM ALL FRESH AIR INTAKES.
- 15 POWER EXHAUST LOCATED ON SIDE OF RTU.



MECHANICAL ROOF PLAN
 SCALE: 1/4" = 1'-0"

no.	date	revision descriptions

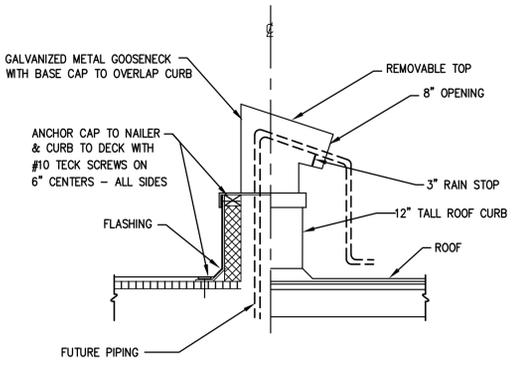
STARBUCKS SHELL CONSTRUCTION
 WESTSIDE BLVD & US HWY 192
 KISSIMMEE, FL

03.10.23
 date

22062
 comm. no.

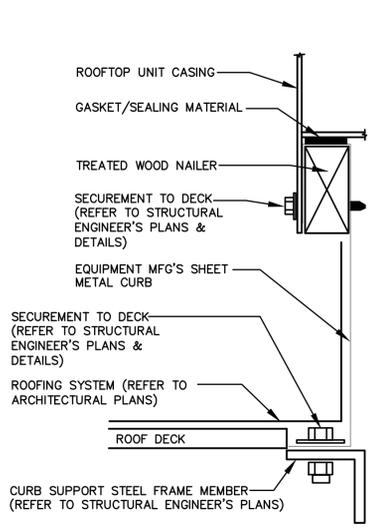
MECHANICAL ROOF PLAN

M2.0

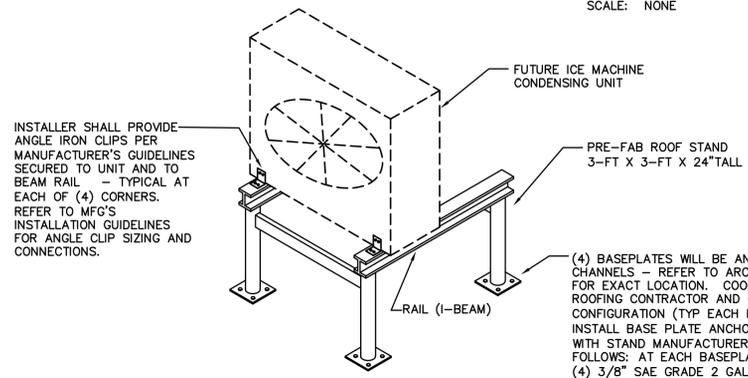


NOTE: LOCATE SO PIPING PENETRATIONS ARE NOT UNDER UNIT PLATFORMS.

ROOF PIPE CURB DETAIL
 SCALE: NONE



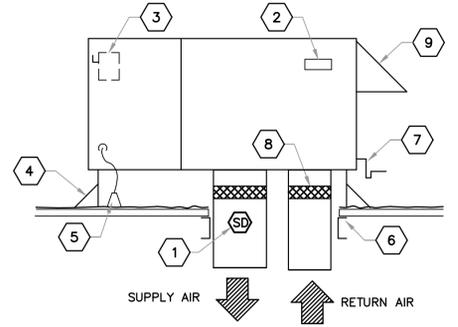
ATTACHMENT OF RTU AND FAN ROOFTOP CURBS
 SCALE: NONE



CONDENSER ROOF STAND DETAIL (FUTURE COOLER CONDENSER)
 SCALE: NONE

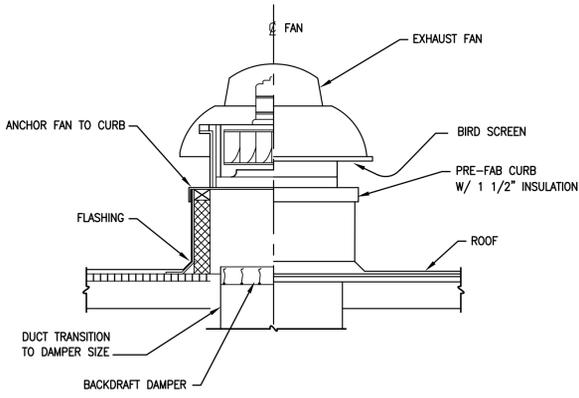
PRECISION ALUMINUM PRODUCTS "ALUMA-STAND" IS BASIS OF DESIGN (FL PRODUCT APPROVAL # 16921.R2)
 ALTERNATE MFGS INCLUDE METULLUM ENTERPRISES & MIAMI TECH (NO OTHER MFG ALLOWED)
 STAND SHALL BE LISTED FOR 150-MPH+ WIND LOADING & LOCAL WIND LOADING PER CODE.
 COORDINATE WITH ROOFING CONTRACTOR AND GC ON EXACT UNIT CONFIGURATION TO SUIT FIELD CONDITIONS (TYP EACH BASEPLATE)
 INSTALL ANCHORS IN ACCORDANCE WITH STAND MANUFACTURER'S GUIDELINES. IF REQUIRED, CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL ANGLE SUPPORTS REQUIRED TO SPAN JOISTS AT NO ADDITIONAL COST.

NOTE: ANY SUBSTITUTIONS FOR THE PRE-FAB STAND SHALL BE FLORIDA PRODUCT APPROVED TO MATCH SPECIFIED UNIT ABOVE.



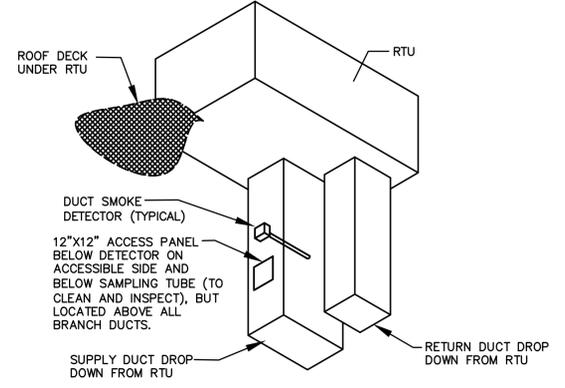
- 1 CONTRACTOR SHALL PROVIDE AND INSTALL AN APPROVED DUCT MOUNTED SMOKE DETECTOR FOR ALL RTU'S DELIVERING 2000 CFM OR MORE.
- 2 UNIT IDENTIFICATION PLATE SCREWED TO UNIT.
- 3 DISCONNECT SWITCH. DO NOT MOUNT HIGHER THAN UNIT.
- 4 PREFAB CURB.
- 5 PATE PIPING PLUG FOR CONTROL, DO NOT RUN IN POWER CONDUIT. DO NOT USE "PATE" PIPING PLUGS AS NOTED WHERE UNIT MANUFACTURER HAS PROVIDED OPENINGS INSIDE PERIMETER CURB.
- 6 CUT HOLE IN ROOF ONLY LARGE ENOUGH FOR DUCT & PROVIDE STRUCTURAL SUPPORT FOR DECKING.
- 7 CONDENSATE TRAP (REFER TO DETAIL). ROUTE CONDENSATE AS INDICATED ON DRAWINGS.
- 8 FLEXIBLE CONNECTION.
- 9 OUTDOOR AIR INTAKE.

ROOFTOP UNIT DETAIL
 SCALE: NONE

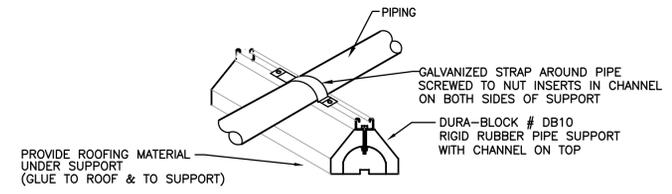


ROOF EXHAUST FAN DETAIL
 SCALE: NONE

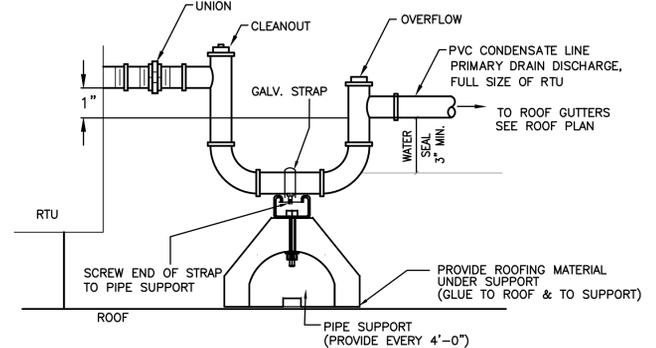
NOTE: INSTALL FAN 10 FEET FROM ANY SOURCE OF FRESH AIR INTAKE.



RTU DUCT SMOKE DETECTOR ISOMETRIC DETAIL
 NOT TO SCALE



ROOF CONDENSATE PIPE SUPPORT DETAIL
 SCALE: NONE



RTU CONDENSATE P-TRAP DETAIL
 SCALE: NONE

EXHAUST FAN SCHEDULE											NO SUBSTITUTIONS ALLOWED FOR FAN
GENERAL					CONSTRUCTION						NOTES
MARK	CFM	SONES	ESP (IN-WG)	ELEC.	MOTOR	DRIVE	TYPE FAN	MANUF.	MODEL	WEIGHT (lbs)	NOTES
EF-1	600	7.4	0.5	120V/1PH	1/4-HP	DIRECT	ROOF DNBLAST	GREENHECK	G-095-VG	22	① ②

- NOTE: ① PROVIDE FAN WITH 18" TALL INSULATED ROOF CURB, DOWNBLAST HOUSING, FAN SPEED CONTROLLER AT FAN UNDER HOOD, AND BACKDRAFT DAMPER.
 ② DISCONNECT BY ELECTRICIAN. INTERLOCK FOR OPERATION BY FUTURE TENANT CONTRACTOR.

HIGH EFFICIENCY PACKAGED DX ROOF TOP UNIT SCHEDULE														NO SUBSTITUTIONS ALLOWED FOR RTU'S												
MARK	CFM	O/A CFM	ESP IN. WG.	POWER	NOMINAL TONS	ARI EFFIC. EER/IEER	HP	BLOWER		COOLING		COOLING CAP		HEATING CAP		POWER										
								ENT AIR DB	WB	TOTAL MBH	SENS. MBH	INPUT KW	OUTPUT MBH	CONDENSER FAN		COMPRESSOR		MCA	MOCP	AMBIENT TEMP.	FILTER TYPE	BASE WGT LBS	MFG.	MODEL	NOTES	
								QTY.	FLA	QTY.	RLA	LRA	AMPS	AMPS	QTY.	FLA	QTY.	RLA	LRA	AMPS	AMPS	TEMP.	TYPE	WGT	NO.	NO.
RTU-1	2,400	240	0.8	208V/3Ø	6.0	12.3/16.0	3.00	76.7	63.8	72.0	55.0	6.8	23.2	1	3.3	2	14.1/7.3	83.1/55.4	43	50	95°F	2"/30%	909	TRANE	THJ072*3	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪
RTU-2	2,000	200	0.8	208V/3Ø	5.0	14.2	1.00	76.7	63.8	60.0	45.8	4.5	15.4	1	2.5	1	15.9	110	30	45	95°F	2"/30%	929	TRANE	THC060*3	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- NOTE: ① PROVIDE WITH 7-DAY A WEEK PROGRAMMABLE (TEMPORARY) THERMOSTAT, MEETING ALL CODE REQUIREMENTS (SEE SPECIFICATIONS). INCLUDE EXTRA 150'-FT LENGTH OF WIRING FOR TEMPORARY MOUNTING, COIL BELOW RTU.
 ② PROVIDE MFG'S 14" TALL INSULATED ROOF CURB, EITHER SLOPED WITH ROOF, OR WITH SHIM KIT, AS NEEDED, FOR LEVEL UNIT INSTALLATION.
 ③ PROVIDE SINGLE POINT POWER TO UNIT INCLUDING HEAT STRIP (ALL SERVICE DISCONNECTS AND CONVENIENCE OUTLETS BY ELECTRICIAN - NOT FURNISHED WITH RTU)
 ④ INSTALL DUCT SMOKE DETECTOR IN SUPPLY DUCT DROP BELOW UNIT (FURNISHED & WIRED BY ELECTRICIAN)
 ⑤ PROVIDE SEACOAST CORROSION COATING ON CONDENSER COILS (5,000-HOUR).
 ⑥ PROVIDE WITH A SECONDARY (AUXILIARY) OVERFLOW DRAIN FLOAT SWITCH IN CONDENSATE PAN, INTERLOCKED WITH FAN MOTOR FOR SHUTDOWN.
 ⑦ PROVIDE HAIL GUARD AROUND CONDENSER COILS.
 ⑧ PROVIDE WITH LOW AMBIENT COOLING AND # COOLING CIRCUITS PER SCHEDULE.
 ⑨ FINAL UNIT COOLING CAPACITY, HEATING CAPACITY AND LOCATIONS MUST BE APPROVED BY TENANT AND LANDLORD, PRIOR TO BID.
 ⑩ PROVIDE WITH ECONOMIZER OUTSIDE AIR INTAKE SYSTEM WITH SCREENED HOOD AND POWERED EXHAUST FAN, WITH ENTHALPY CONTROLS, FAULT DETECTION, AND DIAGNOSTIC CAPABILITIES MATCHING REQUIREMENTS OF 2023 FBC-MECH. C403.2.4.7. IN ADDITION, PROVIDE CO2 SENSOR WITH CONTROLS/SENSOR, COMPATIBLE WITH ECONOMIZER SYSTEM.
 ⑪ PROVIDE WITH TWO SPEED EVAPORATOR FAN WITH VFD CONTROLLER TO COMPLY WITH FL ENERGY CODE, 403.2.12.5.

PROVIDE STARTUP FORMS AND COMPLETED PRE-FUNCTION CHECKLIST PER STARBUCKS T.I. COMMISSIONING PLAN.

SEQUENCE OF OPERATIONS FOR HVAC EQUIPMENT

SUPPLY FANS: THE EVAPORATOR FAN WILL RUN CONTINUOUSLY DURING OCCUPIED HOURS, AND CYCLE ON/OFF WITH COOLING/HEATING WHEN IN UN-OCCUPIED MODE, ACCORDING TO THERMOSTAT PROGRAMMING, AND SUBJECT TO FIRE ALARM SHUTDOWN (DUCT SMOKE DETECTOR).
 OUTSIDE AIR DAMPER: THE DAMPER CLOSES WHEN THE UNIT IS OFF. DAMPER SHALL OPEN TO MINIMUM POSITION WHEN SUPPLY FAN STARTS TO AND STAY OPEN DURING OCCUPIED MODE. IF CO2 SENSOR MEASURES OVER 800-PPM (OR USER PROGRAMMING), THEN THE DAMPER SHALL OPEN TO FULLY BALANCED POSITION. ECONOMIZER MODE FOR 100% FRESH AIR, SHALL BE AVAILABLE WHEN OUTSIDE CONDITIONS HAVE LOWER ENTHALPY THEN INTERIOR (28.0-BTU PER LB OF DRY AIR, OCCUPIED OR UNOCCUPIED).
 COOLING COIL: THE COOLING COIL AND COMPRESSORS SHALL ENERGIZE TO MAINTAIN SPACE COOLING SETPOINT. (75°F OCCUPIED/ 80°F UNOCC.).
 HEATING COIL: THE ELECTRIC HEAT COIL WILL ENERGIZE IN CONTROL STAGES TO MAINTAIN SPACE HEATING SETPOINT. (68°F OCC/60°F UNOCC.).
 FAN: THE EXHAUST FAN WILL NOT BE OPERATIONAL UNTIL INTERIOR BUILD-OUT OCCURS, AS DESIGNED BY INTERIOR ENGINEER.

SUBSTITUTIONS: STARBUCKS REQUIRES THAT RTU'S ARE MANUFACTURED BY TRANE AND SHALL BE PURCHASED UNDER STARBUCKS NATIONAL ACCOUNTS. SUBSTITUTIONS WILL NOT BE ACCEPTED UNDER ANY CIRCUMSTANCES.

THE MECHANICAL ENGINEER OF RECORD FOR THE SHELL HAS SIZED RTU'S BASED ON THE LANDLORD'S LEASE CRITERIA ONLY. THE UNITS SPECIFIED SHALL BE THE BASIS OF THE CONTRACTOR'S BIDS. PRIOR TO CONSTRUCTION, STARBUCKS WILL PROVIDE A COMPLETE SET OF INTERIOR FINISH-OUT PLANS THAT WILL INCLUDE SIZING OF RTU'S BASED ON OCCUPANT AND EQUIPMENT LOADS WITHIN THE BUILDING. FOR THIS REASON, THE EQUIPMENT SIZES SHOWN ON THE SHELL DOCUMENTS ARE SUBJECT TO CHANGE. UNDER NO CIRCUMSTANCES SHALL THE MECHANICAL CONTRACTOR SUBMIT SHOP DRAWINGS OR ORDER RTU'S UNTIL THE INTERIOR FINISH-OUT DOCUMENTS HAVE BEEN RECEIVED. THE ARCHITECT SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR UPON RECEIPT AND, AT THAT TIME, WILL MAKE HIM AWARE OF ANY NECESSARY CHANGES.

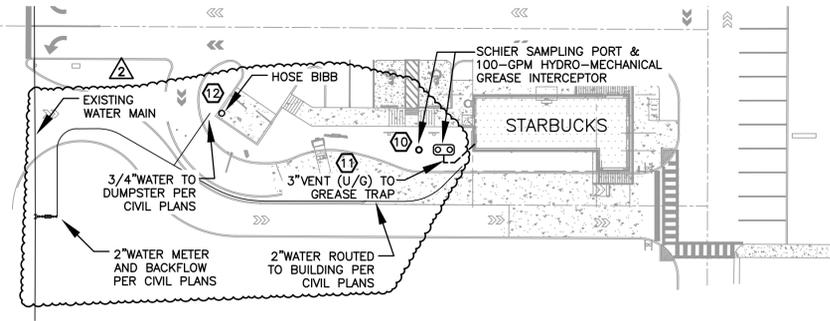
no.	date	revision descriptions
1	02.05.2024	REVISED PER BUILDING PERMIT CORRECTIONS

STARBUCKS SHELL CONSTRUCTION
 WESTSIDE BLVD & US HWY 192
 KISSIMMEE, FL

03.10.23
 date
 22062
 comm. no.

MECHANICAL DETAILS & SCHEDULES

M3.0



KEY NOTES ON PLANS:

- 1 4"GREASE WITH CLEANOUT 3-FIT INSIDE EXTERIOR WALL LABELED "GREASE" (PROVIDE MAXIMUM DEPTH INVERT - MINIMUM 27" BFF).
- 2 4"SANITARY WITH CLEANOUT 5-FIT INSIDE REAR WALL (MIN 27" BFF).
- 3 DOMESTIC COLD WATER (CW) FROM METER TO BUILDING. THEN ROUTE UP INSIDE BUILDING TIGHT TO WALL WITH BALL VALVE AT 24" AFF, AND HINGED ACCESS PANEL IN DRYWALL, THEN UP WITHIN ROOF FRAMING.
- 4 EXTEND 1-1/2"CW WITHIN ROOF FRAMING TO BOOSTER PUMP # BP-1.
- 5 HANG BOOSTER PUMP TIGHT BELOW ROOF FRAMING.
- 6 PROVIDE 1-1/2" CW VALVED END WITH CAP FROM BP-1 WITHIN ROOF FRAMING.
- 7 ROUTE 3/4"CW PIPING BEFORE BP-1, UP WITHIN ROOF FRAMING TO EACH HOSE BIBB.
- 8 VTR LOCATED 10-FIT FROM ALL FRESH AIR INTAKES. EXTEND DOWN INTO BUILDING TO A MINIMUM OF 12" BELOW ROOF. CAP TEMPORARILY IF INDICATED ON PLANS. EXTEND VTR'S WITHIN SCREEN WALL TO ABOVE TOP OF WALL - WHERE APPLICABLE.
- 9 SEE CIVIL FOR CONTINUATION 5-FIT FROM BUILDING.
- 10 SCHIER SAMPLING PORT & 100-GPM HYDRO-MECHANICAL GREASE INTERCEPTOR PER DETAILS ON PLANS, LOCATE PER CIVIL ENGINEERING UTILITY PLAN. PLUMBER TO PROVIDE & INSTALL.
- 11 ROUTE 3"VENT FROM GREASE INTERCEPTOR UNDERGROUND TO BUILDING AND UP TIGHT TO WALL, THEN ROUTE WITHIN JOISTS TO 3"VTR.
- 12 REFER TO CIVIL PLANS FOR 3/4"CW TO DUMPSTER. HOSE BIBB & RPZ PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. LOCATE PER ARCHITECTURAL PLANS.

STEPANEK-LEWIS AND ASSOCIATES
 2257 TWELVE OAKS WAY, SUITE 103
 WESLEY CHAPEL, FL 33544
 PH (813) 981-1248
 REGISTRY # 8397 23-041
 MATTHEW D. LEWIS, P.E. FL LIC#56189

FWH Architects
 3336 Grand Blvd, Suite 201
 Holiday, Florida 34690
 Ph. 727. 815. 3336
 Fax 727. 815. 3337

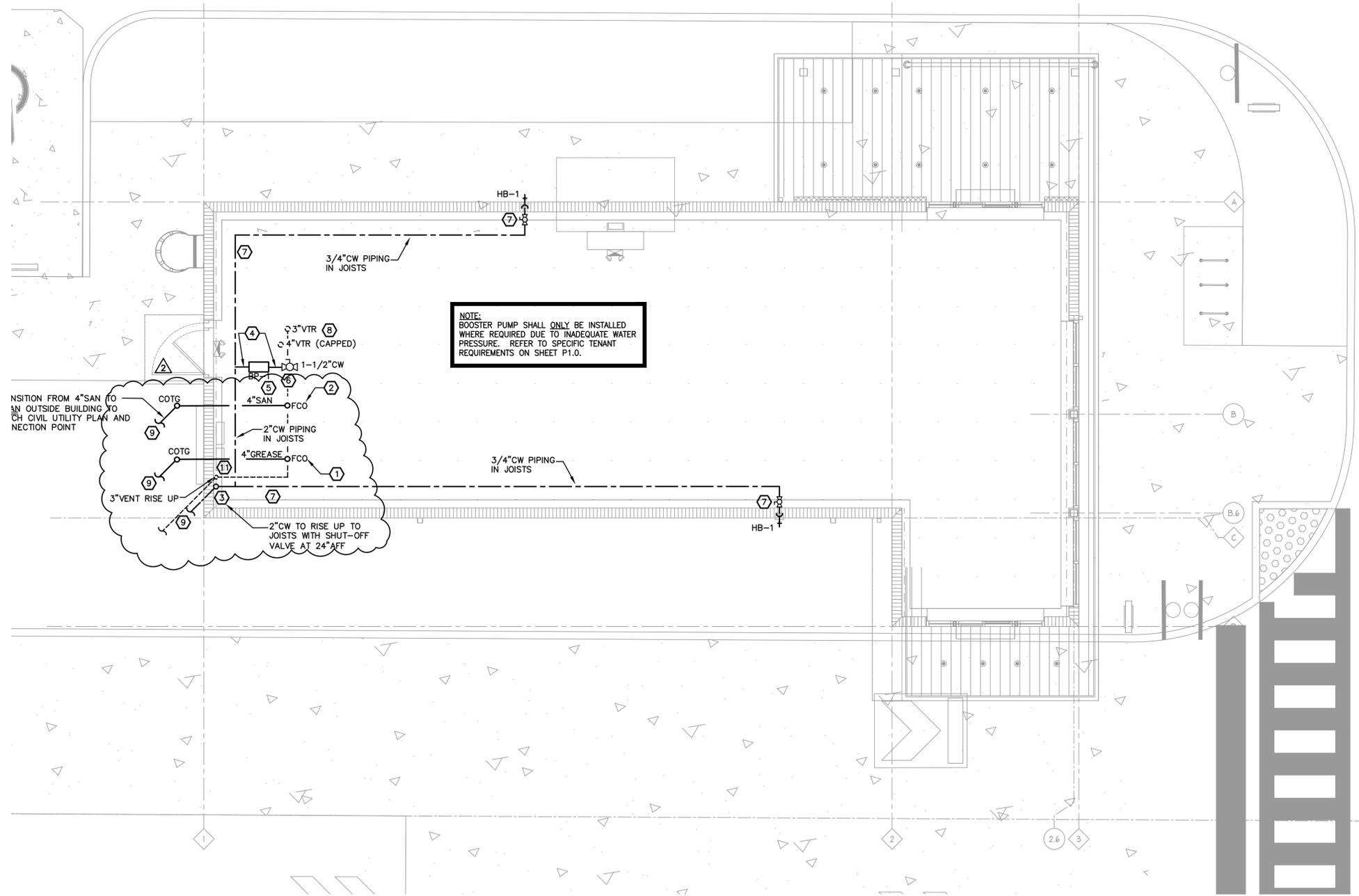
INTEGRATED INVESTMENTS
 5555 S. KIRKMAN RD. SUITE 201
 ORLANDO, FL 32819
 PHONE: 407.542.2300

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

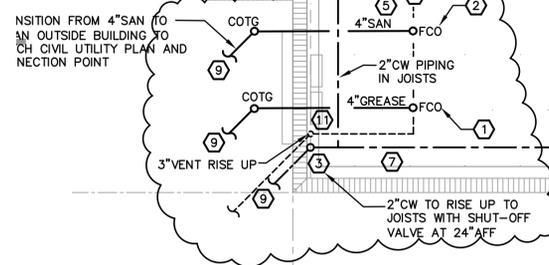


PLUMBING SITE PLAN

SCALE: NONE



NOTE:
 BOOSTER PUMP SHALL ONLY BE INSTALLED WHERE REQUIRED DUE TO INADEQUATE WATER PRESSURE. REFER TO SPECIFIC TENANT REQUIREMENTS ON SHEET P1.0.



PLUMBING FLOOR PLAN NORTH
 SCALE: 1/4" = 1'-0"

no.	date	revision descriptions
1	02.05.2024	REVISED PER BUILDING PERMIT COMMENTS

STARBUCKS SHELL CONSTRUCTION
 WESTSIDE BLVD & US HWY 192
 KISSIMMEE, FL

03.10.23
 date
 22062
 comm. no.

PLUMBING FLOOR PLAN

P2.0

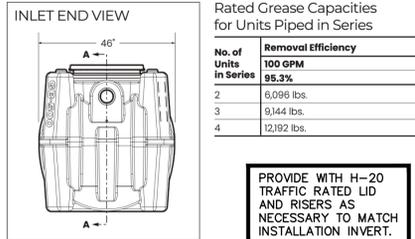
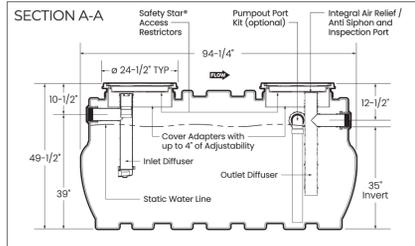
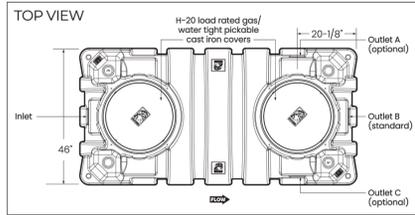
SPECIFICATIONS

- NOTES**
- 4" FPT with 4" plain end adapters, single inlet and triple outlet
 - Unit weight - w/cast iron covers: 528 lbs.; w/composite covers: 412 lbs. (For wet weight add 4,254 lbs.)
 - Maximum operating temperature: 150° F continuous
 - Capacities - Liquid: 510 gal.; Grease: 3,048 lbs. Solids: 128 gal.
 - Built-in Flow control. For series installations, only install flow control on the first unit in the series if necessary.
 - For gravity drainage applications only.
 - Do not use for pressure applications.
 - Cover placement allows full access to tank for proper maintenance.
 - Vents not required unless per local code.
 - Engineered inlet and outlet diffusers are removable to inspect / clean piping.
 - Integral air relief / Anti-siphon / Sampling access.
 - Adjustable cover adapters provide up to 4" of additional height.
 - Fixed outlet models (-FO) have inlet and outlet permanently welded at the factory in the straight-through (S) positions.
 - Flow rates are based on 2-minute drain time.
 - Safety Star® access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

DIFFUSION FLOW TECHNOLOGY
The inlet diffuser reduces turbulence, creates laminar flow and allows the entire tank volume to be utilized for efficient grease separation and minimal disturbance to existing grease and sediment layers. The integral air relief / anti-siphon at the outlet diffuser top allows pressure stabilization within the unit during operation. The outlet diffuser can easily be attached to any of the three outlets provided to ease site piping layouts.

ENGINEER SPECIFICATION GUIDE
Schier Great Basin™ grease interceptor model # GB-500 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Flow control cartridge shall be PVC. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A1224.3 (Type C) and CSA B481 with adjustable cover adapters. Safety Star® access restrictor built into each cover adapter, built-in flow control and three outlet options. Interceptor flow rate shall be 100 GPM. Interceptor grease capacity shall be 3,048 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE
Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by APFO to ASME #A1224.3 and CSA B481 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.



Rated Grease Capacities for Units Piped in Series

No. of Units in Series	Removal Efficiency
1	100 GPM
2	95.3%
3	6,096 lbs.
4	9,144 lbs.
5	12,192 lbs.

PROVIDE WITH H-20 TRAFFIC RATED LID AND RISERS AS NECESSARY TO MATCH INSTALLATION INVERT.

SCHIER MODEL NUMBER: **GB-500** DESCRIPTION: 100 GPM Polyethylene Grease Interceptor

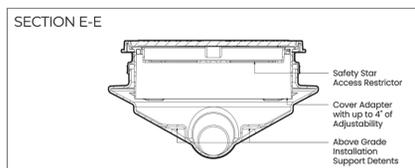
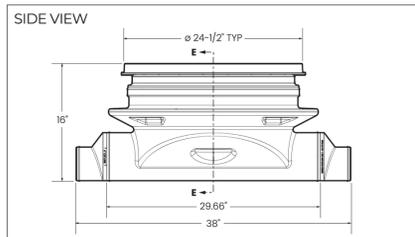
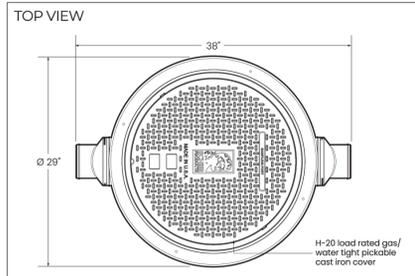
PART #: 4075-001-01 DWG BY: B. Karrer DATE: 10/12/2020 REV: ECO.

6458 Woodland Drive | Shawnee, KS 66218 | 913-951-3300 | schierproducts.com

SPECIFICATIONS

- NOTES**
- 4" plain end inlet/outlet (field modifiable to 6" plain end)
 - Unit weight - w/cast iron cover: 110 lbs.; w/composite cover: 58 lbs.
 - Maximum operating temperature: 150° F continuous
 - Level connections
 - Safety Star® access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

ENGINEER SPECIFICATION GUIDE
Schier Sewer Viewer™ sampling port model # SV24 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Sampling port shall be furnished for above or below grade installation with field adjustable riser system and Safety Star® access restrictor built into cover adapter. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.



PROVIDE WITH H-20 TRAFFIC RATED LID AND RISERS AS NECESSARY TO MATCH INSTALLATION INVERT.

SCHIER MODEL NUMBER: **SV24** DESCRIPTION: Polyethylene Wastewater Sampling Port

PART #: 8064-001-01 DWG BY: B. Karrer DATE: 4/2/2020 REV: ECO.

6500 Woodend Road | Edwardsville, KS 66111 | 913-951-3300 | schierproducts.com

GREASE INTERCEPTOR SIZING:
THE PLUMBING ENGINEER OF RECORD FOR THE SHELL HAS ESTIMATED THE SIZE OF THE GREASE INTERCEPTOR BASED ON THE TENANT'S PROPOSED USE. THE UNIT SPECIFIED SHALL BE THE BASIS OF THE CONTRACTOR'S BIDS. PRIOR TO CONSTRUCTION, STARBUCKS WILL PROVIDE A COMPLETE SET OF INTERIOR FINISH-OUT PLANS THAT WILL INCLUDE SIZING OF GREASE INTERCEPTOR. FOR THIS REASON, THE SIZE SHOWN ON THE SHELL DOCUMENTS ARE SUBJECT TO CHANGE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SUBMIT SHOP DRAWINGS OR ORDER GREASE INTERCEPTOR UNTIL THE INTERIOR FINISH-OUT DOCUMENTS HAVE BEEN FINALIZED. THE ARCHITECT SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR UPON RECEIPT AND, AT THAT TIME, WILL MAKE HIM AWARE OF ANY NECESSARY CHANGES.

THE GREASE INTERCEPTOR LOCATION IS PER THE CIVIL ENGINEER'S PLANS. GREASE INTERCEPTOR TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.

Grease Interceptor Calculations
TOHO Water Authority Formula:
Sizing from below, (M) x (GM) x (LF) = Effective capacity (Gallons)

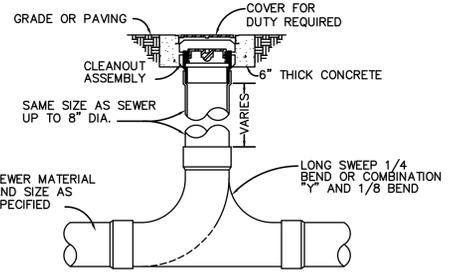
Meals prepared per day: 500
Gallons: 5
Loading Factor: 1.2

Note - (LF) at 1.2 is accepted per TOHO

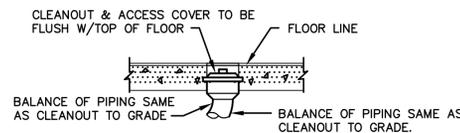
Gravity Interceptor Gallons: 3000 gallons
TOHO Minimum: 3000 gallons

Great Basin Cross Reference
(1) GB-500 = 3,000 gallons

SCHIER Description: Polyethylene Grease Interceptor
MODEL NUMBER: **GB-500** Flow Rate / Grease Capacity: 100 GPM / 3,048 lbs
Liquid Capacity: 510 gallons



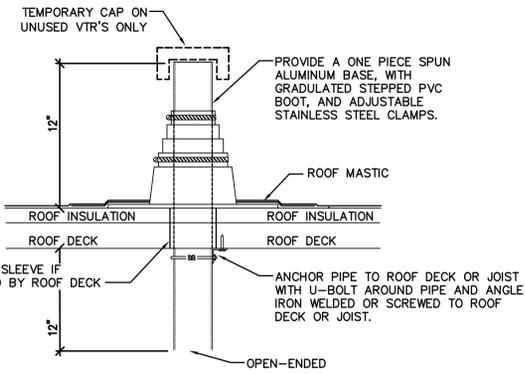
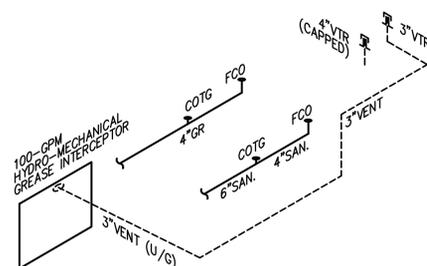
2-WAY GRADE CLEANOUT DETAIL (COTG)
SCALE: NONE



FLOOR CLEANOUT (FCO)
SCALE: NONE

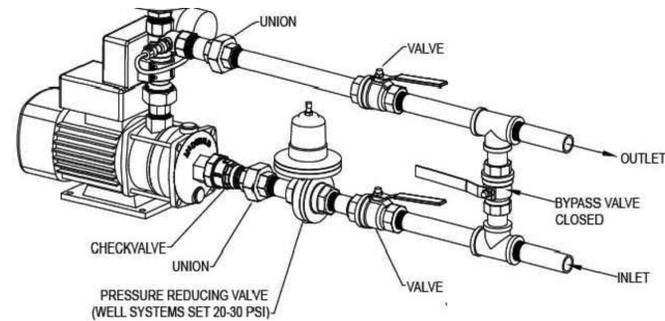
TOTAL DRAINAGE FIXTURE UNITS ALLOWABLE PER FBC-P TABLE 710.1(1) = 180 DFU AT 1/8" PER FOOT SLOPE.

SANITARY ISOMETRIC RISERS
SCALE: NONE



VENT THRU ROOF DETAIL
SCALE: NONE

REFER TO PLANS FOR VTR LOCATIONS. PROVIDE MINIMUM OF 10 FT FROM ALL FRESH AIR INTAKES. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE OF BUILDING WITHIN 6 FT OF VTR LOCATION. COORDINATE AND VERIFY FLASHING AND COUNTER FLASHING WITH ROOFING CONTRACTOR.



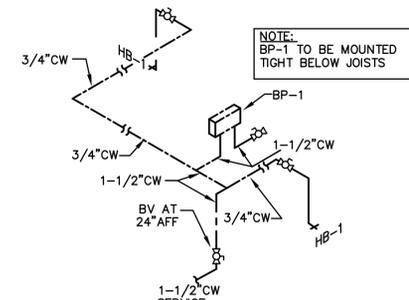
PACKAGED BOOSTER SYSTEM SCHEMATIC
SCALE: NONE

NOTE: MOUNT FROM BEAMS WITH (2) UNISTRUT, 1/2" RODS, AND BEAM CLAMPS

FIXTURE	TAG	BRANCH SIZE				MANUFACTURER/MODEL	REMARKS
		DRAINAGE		WATER			
		WASTE	VENT	COLD	HOT		
FLOOR CLEANOUT	FCO	---	---	---	---	ZURN # Z1400-ZB	"LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT. DURA-COATED CAST-IRON, POLISHED BRONZE TOP, ADJUSTABLE TO FLOOR FINISH.
HOSE BIBB	HB-1	---	---	3/4"	---	WOODFORD # B65	HOSE BIBB: FREEZELESS WALL HYDRANT, FLUSH WALL BOX, POLISHED BRASS FACE PLATE, BRONZE CASING, HOSE CONNECTION WITH INTEGRAL VACUUM BREAKER, WHEEL HANDLE. T-KEY FOR BOX.
BOOSTER PUMP	BP-1	---	---	2"	---	PERFECT PRESSURE PUMP # P3-3HP	SEPARATE LINE ITEM - PACKAGED DOMESTIC WATER PRESSURE BOOSTER SYSTEM. SYSTEM TO INCLUDE 3-HP MOTOR AT 208-VOLTS/1-PHASE, PROVIDING 46-PSI BOOST, 50-GPM. PROVIDE ALL COMPONENTS NECESSARY FOR COMPLETE INSTALLATION INCLUDING, BUT NOT LIMITED TO: UNIONS, BALL VALVES, DIGITAL PRESSURE/SPEED CONTROLLER, AND PRESSURE REDUCING VALVES.

TOTAL WATER FIXTURE UNITS ALLOWABLE PER FBC-P TABLE E201.1 = 151 WFU NOT MORE THAN 200-FT

WATER ISOMETRIC RISER
SCALE: NONE



NOTE: BP-1 TO BE MOUNTED TIGHT BELOW JOISTS

date: 03.10.23

comm. no.: 22062



3336 Grand Blvd, Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
Fax 727. 815. 3337



TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECT AND ENGINEER, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY REGULATIONS.



STARBUCKS SHELL CONSTRUCTION
WESTSIDE BLVD & US HWY 192
KISSIMMEE, FL

date: 03.10.23

comm. no.: 22062

PLUMBING SCHEDULES, RISERS & DETAILS

P3.0

revision descriptions

date

no.

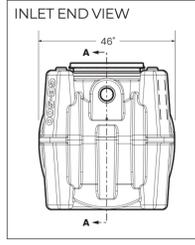
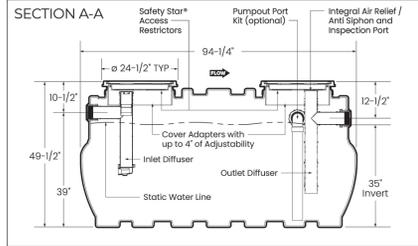
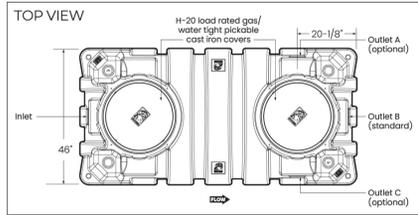
SPECIFICATIONS

- NOTES**
- 4" FPT with 4" plain end adapters, single inlet and triple outlet
 - Unit weight - w/cast iron covers: 528 lbs.; w/composite covers: 412 lbs. (For wet weight add 4254 lbs.)
 - Maximum operating temperature: 150° F continuous
 - Capacities - Liquid: 510 gal.; Grease: 3,048 lbs. Solids: 128 gal.
 - Built-in Flow control. For series installations, only install flow control on the first unit in the series if necessary.
 - For gravity drainage applications only.
 - Do not use for pressure applications.
 - Cover placement allows full access to tank for proper maintenance.
 - Vent not required unless per local code.
 - Engineered inlet and outlet diffusers are removable to inspect / clean piping.
 - Integral air relief / Anti-siphon / Sampling access.
 - Adjustable cover adapters provide up to 4" of additional height.
 - Fixed outlet models (-FO) have inlet and outlet permanently welded at the factory in the straight-through (S) positions.
 - Flow rates are based on 2-minute drain time.
 - Safety Star® access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

DIFFUSION FLOW TECHNOLOGY
The inlet diffuser reduces turbulence, creates laminar flow and allows the entire tank volume to be utilized for efficient grease separation and minimal disturbance to existing grease and sediment layers. The integral air relief / anti-siphon at the outlet diffuser top allows pressure stabilization within the unit during operation. The outlet diffuser can easily be attached to any of the three outlets provided to ease site piping layouts.

ENGINEER SPECIFICATION GUIDE
Schier Great Basin™ grease interceptor model # GB-500 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Flow control cartridge shall be PVC. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A1224.3 (Type C) and CSA B481 with adjustable cover adapters. Safety Star® access restrictor built into each cover adapter, built-in flow control and three outlet options. Interceptor flow rate shall be 100 GPM. Interceptor grease capacity shall be 3,048 lbs. Cover shall provide water / gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE
Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by APFO to ASME #A1224.3 and CSA B481 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.



Rated Grease Capacities for Units Piped in Series

No. of Units in Series	Removal Efficiency
1	100 GPM
2	95.3%
3	6,096 lbs.
4	9,144 lbs.
5	12,192 lbs.

PROVIDE WITH H-20 TRAFFIC RATED LID AND RISERS AS NECESSARY TO MATCH INSTALLATION INVERT.

SCHIER MODEL NUMBER: **GB-500** DESCRIPTION: 100 GPM Polyethylene Grease Interceptor
PART #: 4075-001-01 DWG BY: B. Karrer DATE: 10/12/2020 REV: ECO.
6458 Woodland Drive | Shawnee, KS 66218 | 913-991-3300 | schierproducts.com © Copyright 2020 Schier Products Company

GREASE INTERCEPTOR SIZING:
THE PLUMBING ENGINEER OF RECORD FOR THE SHELL HAS ESTIMATED THE SIZE OF THE GREASE INTERCEPTOR BASED ON THE TENANT'S PROPOSED USE. THE UNIT SPECIFIED SHALL BE THE BASIS OF THE CONTRACTOR'S BIDS. PRIOR TO CONSTRUCTION, STARBUCKS WILL PROVIDE A COMPLETE SET OF INTERIOR FINISH-OUT PLANS THAT WILL INCLUDE SIZING OF GREASE INTERCEPTOR. FOR THIS REASON, THE SIZE SHOWN ON THE SHELL DOCUMENTS ARE SUBJECT TO CHANGE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SUBMIT SHOP DRAWINGS OR ORDER GREASE INTERCEPTOR UNTIL THE INTERIOR FINISH-OUT DOCUMENTS HAVE BEEN FINALIZED. THE ARCHITECT SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR UPON RECEIPT AND, AT THAT TIME, WILL MAKE HIM AWARE OF ANY NECESSARY CHANGES.

THE GREASE INTERCEPTOR LOCATION IS PER THE CIVIL ENGINEER'S PLANS. GREASE INTERCEPTOR TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.

Grease Interceptor Calculations
TOHO Water Authority Formula:
Sizing from below, (M) x (GM) x (LF) = Effective capacity (Gallons)

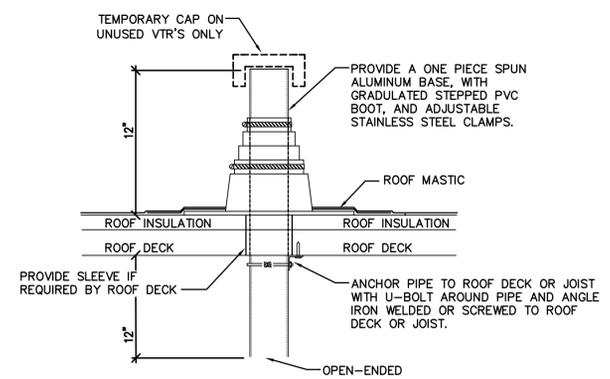
Meals prepared per day	500
Gallons	5
Loading Factor	1.2

Note - (LF) at 1.2 is accepted per TOHO

Gravity Interceptor Gallons:	3000 gallons
TOHO Minimum:	3000 gallons

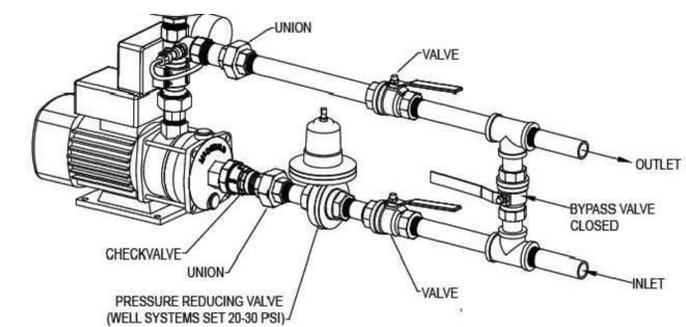
Great Basin Cross Reference
(1) GB-500 = 3,000 gallons

SCHIER Description: Polyethylene Grease Interceptor
MODEL NUMBER: **GB-500** Flow Rate / Grease Capacity: 100 GPM / 3,048 lbs
Liquid Capacity: 510 gallons



VENT THRU ROOF DETAIL
SCALE: NONE

REFER TO PLANS FOR VTR LOCATIONS. PROVIDE MINIMUM OF 10 FT FROM ALL FRESH AIR INTAKES. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE OF BUILDING WITHIN 6 FT OF VTR LOCATION. COORDINATE AND VERIFY FLASHING AND COUNTER FLASHING WITH ROOFING CONTRACTOR.



PACKAGED BOOSTER SYSTEM SCHEMATIC
SCALE: NONE

NOTE: MOUNT FROM BEAMS WITH (2) UNISTRUT, 1/2" RODS, AND BEAM CLAMPS

FIXTURE & CONNECTION SCHEDULE

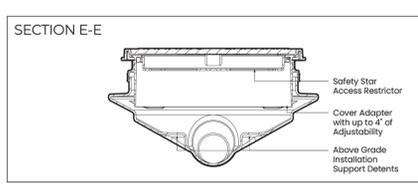
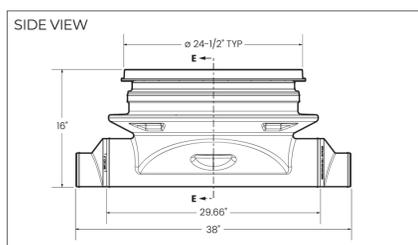
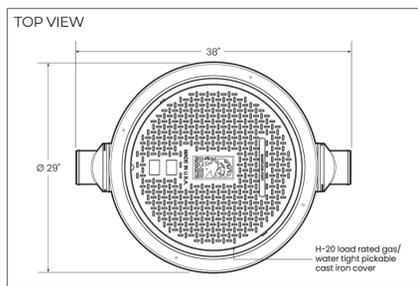
FIXTURE	TAG	BRANCH SIZE				MANUFACTURER/MODEL	REMARKS
		DRAINAGE		WATER			
		WASTE	VENT	COLD	HOT		
FLOOR CLEANOUT	FCO	---	---	---	---	ZURN # Z1400-ZB	"LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT. DURA-COATED CAST-IRON, POLISHED BRONZE TOP, ADJUSTABLE TO FLOOR FINISH.
HOSE BIBB	HB-1	---	---	3/4"	---	WOODFORD # B65	HOSE BIBB: FREEZELESS WALL HYDRANT, FLUSH WALL BOX, POLISHED BRASS FACE PLATE, BRONZE CASING, HOSE CONNECTION WITH INTEGRAL VACUUM BREAKER, WHEEL HANDLE. T-KEY FOR BOX.
BOOSTER PUMP	BP-1	---	---	2"	---	PERFECT PRESSURE PUMP # P3-3HP	SEPARATE LINE ITEM - PACKAGED DOMESTIC WATER PRESSURE BOOSTER SYSTEM. SYSTEM TO INCLUDE 3-HP MOTOR AT 208-VOLTS/1-PHASE, PROVIDING 46-PSI BOOST, 50-GPM. PROVIDE ALL COMPONENTS NECESSARY FOR COMPLETE INSTALLATION INCLUDING, BUT NOT LIMITED TO: UNIONS, BALL VALVES, DIGITAL PRESSURE/SPEED CONTROLLER, AND PRESSURE REDUCING VALVES.

NOTE: ONLY REQUIRED IF SITE PRESSURE CANNOT MEET TENANT MINIMUM PRESSURE IN LEASE.

SPECIFICATIONS

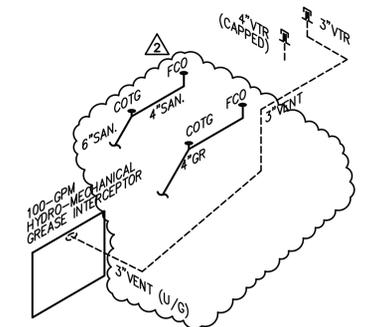
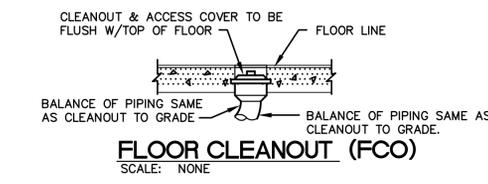
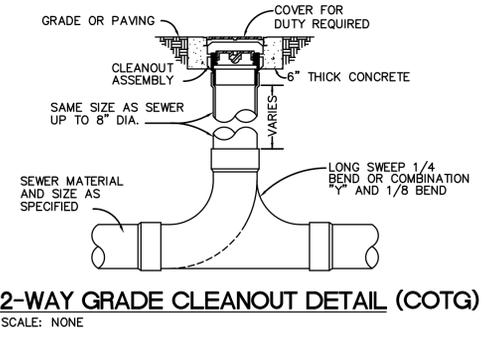
- NOTES**
- 4" plain end inlet/outlet (field modifiable to 6" plain end)
 - Unit weight - w/cast iron cover: 110 lbs.; w/composite cover: 58 lbs.
 - Maximum operating temperature: 150° F continuous
 - Level connections
 - Safety Star® access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

ENGINEER SPECIFICATION GUIDE
Schier Sewer Viewer™ sampling port model # SV24 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Sampling port shall be furnished for above or below grade installation with field adjustable riser system and Safety Star® access restrictor built into cover adapter. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.



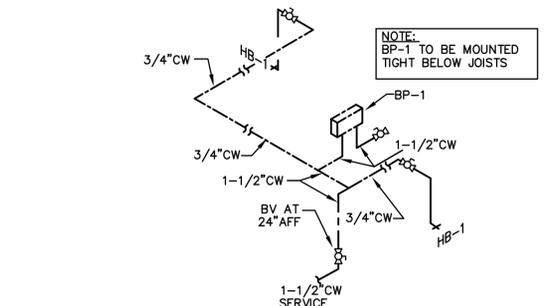
PROVIDE WITH H-20 TRAFFIC RATED LID AND RISERS AS NECESSARY TO MATCH INSTALLATION INVERT.

SCHIER MODEL NUMBER: **SV24** DESCRIPTION: Polyethylene Wastewater Sampling Port
PART #: 8064-001-01 DWG BY: B. Karrer DATE: 4/2/2020 REV: ECO.
9500 Woodend Road | Edwardsville, KS 66111 | 913-991-3300 | schierproducts.com © Copyright 2020 Schier, All Rights Reserved



TOTAL DRAINAGE FIXTURE UNITS ALLOWABLE PER FBC-P TABLE 710.1(1) = 180 DFU AT 1/8" PER FOOT SLOPE.

SANITARY ISOMETRIC RISERS
SCALE: NONE



TOTAL WATER FIXTURE UNITS ALLOWABLE PER FBC-P TABLE E201.1 = 151 WFU NOT MORE THAN 200-FT

WATER ISOMETRIC RISER
SCALE: NONE

STEPANEK-LEWIS AND ASSOCIATES
2257 TWELVE OAKS WAY, SUITE 103
WESLEY CHAPEL, FL 33544
PH (813) 991-1248
REGISTRY # 8397 23-041
MATTHEW D. LEWIS, P.E. FL LIC#56189

FWH Architects
3336 Grand Blvd, Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
Fax 727. 815. 3337

Investments
5555 S. KIRKMAN RD. SUITE 201
ORLANDO, FL 32819
PHONE: 407.354.2300

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECT AND ENGINEER, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY ORDINANCES.

MATTHEW D. LEWIS
LICENSE # 56189
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISED PER BUILDING PERMIT COMMENTS	DATE	BY	DESCRIPTION
1	02.05.2024		

STARBUCKS SHELL CONSTRUCTION
WESTSIDE BLVD & US HWY 192
KISSIMMEE, FL

03.10.23 date
22062 comm. no.

PLUMBING SCHEDULES, RISERS & DETAILS

P3.0

PROJECT NOTES

- 1. ALL WORK SHALL CONFORM TO:
A. FLORIDA BUILDING CODE (FBCB) 2023- 8th EDITION.
B. FLORIDA FIRE PREVENTION CODE (FFPC) 2023 - 8th EDITION.
C. FLORIDA BUILDING CODE ENERGY CONSERVATION (FBC EC) 2023 - 8th EDITION.
D. NATIONAL ELECTRIC CODE (NEC) - 2020
2. ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER...

MC CABLE NOTES

- MC CABLE: METAL-CLAD CABLE GENERAL NOTES
BRANCH CIRCUITS MAY BE METAL CLAD CABLE TYPE (MC), PROVIDED:
WHERE PANEL IS FLUSH MOUNTED: THE CABLE SHALL RUN IN WALL CAVITY.
WHERE PANEL IS SURFACE MOUNTED: CONTRACTOR SHALL PROVIDE METAL STUDS WITH DRYWALL TO CREATE A CAVITY TO RUN THE MC CABLE WITHIN.

2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION (8TH EDITION)

- SECTION C405.5 ELECTRIC POWER
C405.5.3 VOLTAGE DROP
THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED ARE DESIGNED AND SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL.
C405.5.4.1 DRAWINGS
CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:
1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

NOTES

- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR COORDINATION OF ALL LIGHTING FIXTURE LOCATIONS.
2. GROUND CONDUCTOR SHALL BE INSTALLED IN ENTIRE RACEWAY SYSTEM INCLUDING WALL SWITCHES AND FLEXIBLE CONDUIT TO LIGHT FIXTURES.
3. LIGHTING SWITCHES SHALL BE GROUPED WITH ONE PLATE AND LOCATED APPROXIMATELY 2 INCHES FROM DOOR FRAME (STRIKE SIDE) UNLESS OTHERWISE NOTED.

LEGEND

LEGEND
MOUNTING HEIGHTS SHOWN ARE MAXIMUM/MINIMUM HANDICAPPED ACCESSIBILITY STANDARDS - THEY SHALL NOT BE ALTERED WITHOUT WRITTEN AUTHORIZATION.
NOT ALL DEVICES SHOWN IN LEGEND ARE REQUIRED. REVIEW POWER AND LIGHTING PLANS AND DETAILS FOR ITEMS WHICH APPLY TO THIS PROJECT.
Includes symbols for linear light fixture, downlight, wall bracket, exit light, emergency light, track lighting, switches, receptacles, and various electrical components.

NOTES

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO SUBMITTING A BID.
2. REPORT ANY DISCREPANCIES TO ARCHITECT OR ENGINEER PRIOR TO BID.
3. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK.

INDEX

- E0.0 : ELECTRICAL PROJECT NOTES AND LEGEND
E1.0 : ELECTRICAL SITE PLAN
E1.1 : PHOTOMETRIC SITE PLAN
E1.2 : FIXTURE INFORMATION
E2.0 : LIGHTING AND POWER PLANS
E3.0 : POWER RISER DIAGRAM
E4.0 : ELECTRICAL SPECIFICATIONS

CHEHAYEB & ASSOCIATES, INC.

CONSULTING PROFESSIONAL ENGINEERS
3702 AZEEL ST. TAMPA, FL 33609
(813) 876-1415
www.chehayeb.com



3336 Grand Blvd, Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
Fax 727. 815. 3337



TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEHAYEB, P.E.
FL License No. 49521

Table with columns: REVISION PER BUILDING PERMIT COMMENTS, date, no.

STARBUCKS SHELL CONSTRUCTION
WESTSIDE BLVD & US HWY 192
KISSIMMEE, FL

03.10.23
date
22062
comm. no.

ELECTRICAL PROJECT NOTES AND LEGEND

E0.0

NOTES

GENERAL SITE

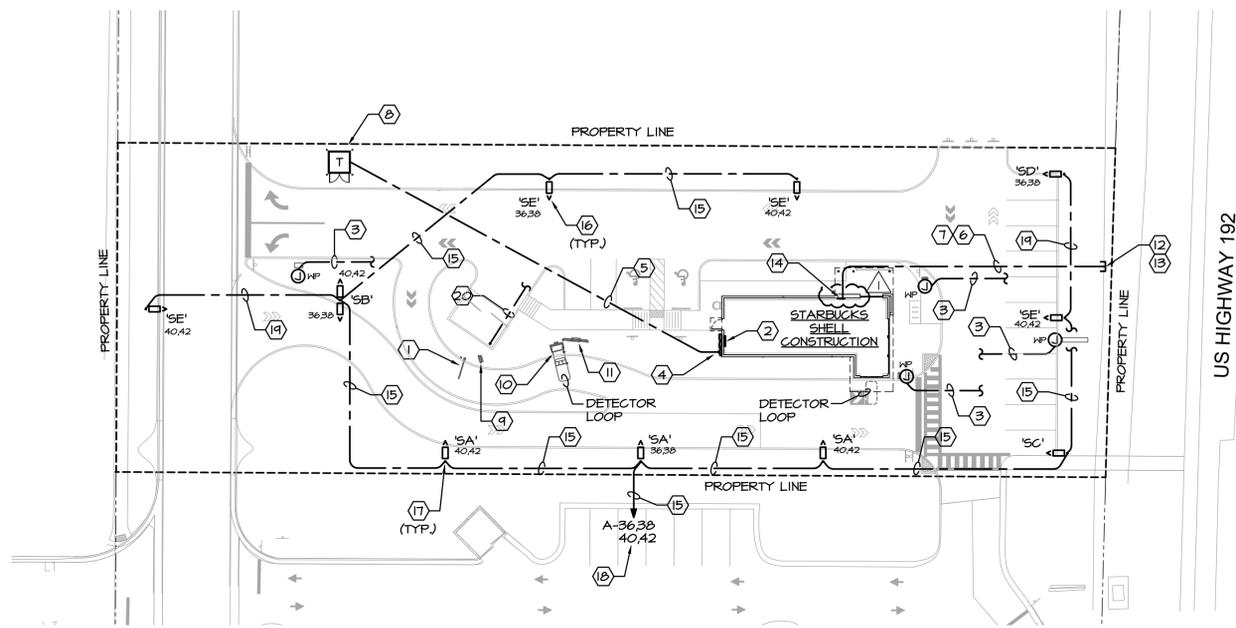
- CONDUIT RUN BELOW GRADE SHALL BE PVC SCHEDULE 40, 90° ELBOWS, 2" AND LARGER SHALL BE GALVANIZED RIGID CONDUIT(S), RISERS SHALL BE RIGID STEEL CONDUIT(S) WHERE EXPOSED TO OUTSIDE ELEMENTS, AND SUBJECT TO PHYSICAL DAMAGE. REFER TO SPECIFICATIONS, ALL INDOOR CONDUITS ABOVE SLAB SHALL BE METAL. REFER TO SPECIFICATION.
- ALL UNDERGROUND SITE CONDUIT SHALL BE BURIED A MINIMUM OF 36 INCHES DEEP BELOW FINISHED GRADE TO TOP OF CONDUIT UNLESS OTHERWISE NOTED.
- PROVIDE COLOR TAPE FOR IDENTIFICATION AT 18 INCHES DEEP (ABOVE SERVICE CONDUIT RUNS) PER N.E.C. 300-5 (D) (3).
- ALL TURNS SHALL BE MADE WITH LONG SWEEP ELLS.
- CONTRACTOR SHALL PROVIDE ALL EXCAVATING AND BACK FILLING REQUIRED FOR ALL NEW WORK INCLUDING FILL, COMPACTION, SURFACE, ETC. TO MEET ALL REQUIREMENTS AS APPLICABLE FOR THE AREA.
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL DETERMINE THE PRESENCE AND LOCATION OF ANY UNDERGROUND FACILITIES SUCH AS TELEPHONE, ELECTRIC POWER, WATER, GAS, SEWAGE LINES, ETC., WHETHER PREVIOUSLY EXISTING OR AS INSTALLED BY OTHER TRADES, TO AVOID INTERFERENCE WITH ANY SUCH SYSTEM.
- ALL SPARE, EMPTY CONDUITS SHALL BE LABELED AS TO THEIR FUNCTION.
- CONTRACTOR SHALL MAINTAIN AN AS-BUILT DIMENSIONAL DRAWING ON SITE SHOWING ALL UNDERGROUND SERVICE ROUTING AND TERMINATION POINTS.
- CONTRACTOR SHALL MEET ON SITE WITH REPRESENTATIVES OF THE UTILITY COMPANIES INCLUDING POWER, TELEPHONE, AND CABLE TO DETERMINE THE FOLLOWING: (PRIOR TO BID AND PRIOR TO ROUGH IN).
 - POWER COMPANY:**
 - A - VERIFY EXACT TRANSFORMER(S) LOCATION PRIOR TO BID.
 - B - VERIFY PRIMARY CONDUIT WORK REQUIRED AND RESPONSIBILITY PRIOR TO BID.
 - C - VERIFY METERING METHOD AND REQUIREMENTS, IF DIFFERENT FROM WHAT IS SHOWN ON THE DRAWINGS, NOTIFY ENGINEER IMMEDIATELY.
 - TELEPHONE COMPANY:**
 - A - ORIGIN AND TERMINATION OF THE SERVICE CONDUITS.
 - B - INSTALLATION SPECIFICATIONS, SIZE AND QUANTITY REQUIRED. HOWEVER, MAINTAIN QUANTITY AND SIZES SHOWN ON PLANS, IF IN EXCESS OF UTILITY REQUIREMENTS.

NOTE:
CONTRACTOR'S FAILURE TO COMPLY WITH THESE COORDINATION PROCEDURES WILL CONSTITUTE THE CONTRACTOR ASSUMING ALL COSTS ASSOCIATED WITH REPLACING ANY AND ALL WORK ALREADY IN PLACE TO MEET UTILITY COMPANIES' RULES AND REQUIREMENTS.

KEY NOTES

SITE

- CLEARANCE BAR, NON-LIT.
- PROPOSED STARBUCKS PANEL LOCATIONS.
- PROVIDE ONE 1" CONDUIT WITH PULLWIRE FROM WEATHERPROOF JUNCTION BOX AT PROPOSED SIGN LOCATION AND RUN UNDERGROUND BACK TO "TIME CLOCK/CONTACTOR PANEL". SEE DTE DETAIL THIS SHEET.
- ELECTRICAL SERVICE LOCATION. SEE POWER RISER DIAGRAM ON SHEET E3.0.
- SECONDARY POWER CONDUITS, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE POWER RISER DIAGRAM ON SHEET E3.0.
- TWO 2" SCH 40, PVC CONDUITS WITH PULLWIRE BY ELECTRICAL CONTRACTOR FOR TELEPHONE SERVICE. CONDUIT TO BE STUBBED UP IN SPACE AT A LOCATION IDENTIFIED BY TENANT.
- ONE 2" SCH 40, PVC CONDUIT WITH PULLWIRE BY ELECTRICAL CONTRACTOR FOR CABLE T.V. SERVICE. CONDUIT TO BE STUBBED UP IN SPACE AT A LOCATION IDENTIFIED BY TENANT.
- NEW 120/208V, 3-PHASE, PAD MOUNTED TRANSFORMER. REFER TO POWER RISER DIAGRAM ON SHEET E3.0 FOR ADDITIONAL DETAILS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY, SEE CONTACT INFORMATION THIS SHEET.
- PRE MENU BOARD. SEE DTE DETAIL THIS SHEET.
- SPEAKER POST ORDER CONFIRMATION SYSTEM WITH DETECTABLE LOOP. SEE DTE DETAIL THIS SHEET.
- MENU BOARD SEE DTE DETAIL THIS SHEET.
- TERMINATE TELEPHONE CONDUITS AT PROPERTY LINE. COORDINATE WITH PHONE COMPANY REPRESENTATIVE.
- TERMINATE CABLE CONDUITS AT PROPERTY LINE. COORDINATE WITH UTILITY COMPANY REPRESENTATIVE.
- TELE/DATA STUB-UP PROPOSED LOCATION. SEE SHEET E2.0 FOR LOCATION.
- 4 - #8, 1 - #8 E.G. IN 1" CONDUIT.
- OPTICS ORIENTATION FOR THE SITE LIGHT FIXTURE.
- SITE POLE AND FIXTURE. SEE LIGHTING FIXTURE SCHEDULE ON THIS SHEET AND SHEET E1.1 FOR POLE DETAIL.
- ONE CIRCUIT CONTROLLED VIA PHOTOCELL ON TIMECLOCK OFF AND ONE CIRCUIT CONTROLLED VIA PHOTOCELL 'ON', PHOTOCELL 'OFF'.
- 2 - #8, 1 - #8 E.G. IN 1" CONDUIT.
- (1) 1" CONDUIT WITH PULL WIRE FROM THE DUMPSTER TO 12" A.F.F. AT PANEL 'A' LOCATION. CAP AND LABEL ON BOTH ENDS.



UTILITY COORDINATION:

TO THE BEST OF OUR ABILITY THE SERVICE HAS BEEN COORDINATED WITH THE UTILITY COMPANY REPRESENTATIVE(S) FOR:

- TRANSFORMER(S) LOCATION.
- CUSTOMER RESPONSIBILITY.
- REQUESTED VOLTAGE & AVAILABILITY.
- PRIMARY CONDUITS RESPONSIBILITY AND REQUIREMENT.

IT IS THE CONTRACTOR RESPONSIBILITY TO REVISIT THESE ITEMS WITH UTILITY PROJECT ENGINEER TO VERIFY THAT THE CURRENT DESIGN SHOWN ON THE CONSTRUCTION DOCUMENT(S) ARE STILL IN COMPLIANCE WITH THE UTILITY PLANS TO SERVICE THIS SITE.

ANY COST ASSOCIATED WITH UTILITY FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS WITH THE DEVELOPER.

THIS COORDINATION SHALL BE A PART OF SITE MEETING TO BE SCHEDULED BY THE CONTRACTOR WITH THE UTILITY PERSONNEL PRIOR TO THE START OF THE PROJECT.

COORDINATION SHALL ALSO BE MADE WITH TELEPHONE AND CABLE SERVICE REPRESENTATIVE(S) FOR VERIFICATION OF THEIR REQUIREMENTS INCLUDING POINT OF CONNECTION AND TERMINATION POINTS.

REVISION #1 CONSIST OF REPLACING EXISTING FOOTPRINT AND REVISING ALL AFFECTED DEVICES, NOT CLOUDED DUE TO CLARITY.

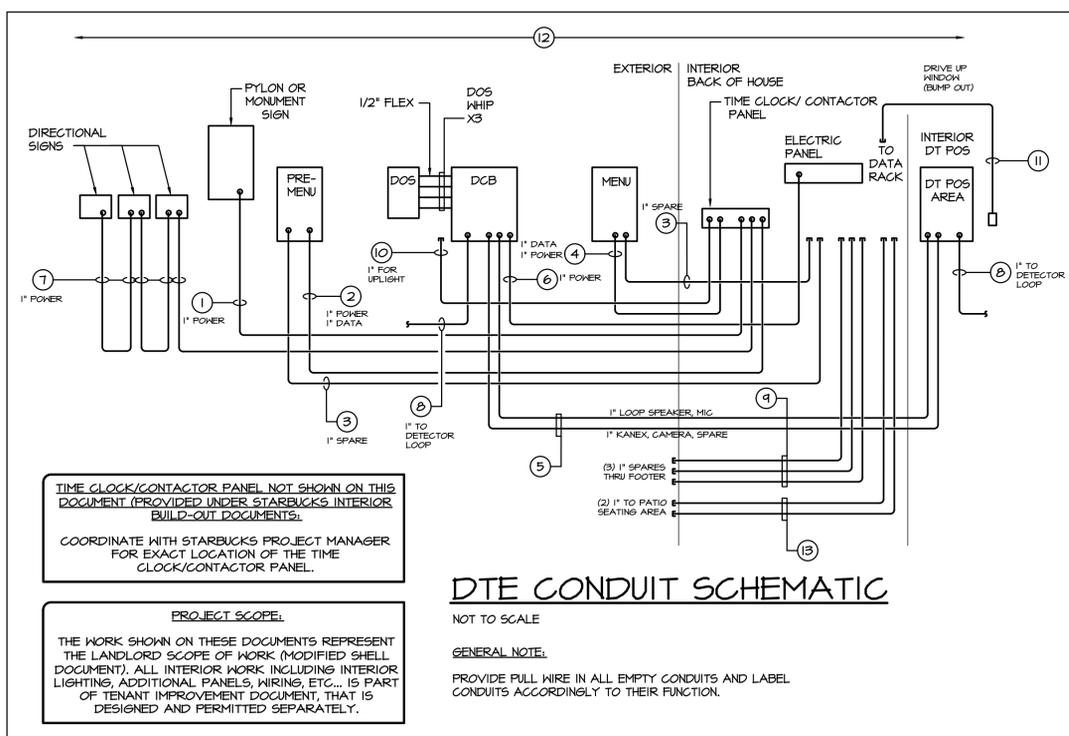
UTILITY COORDINATION DILIGENT PROGRESS:

CONTACT HAS BEEN MADE WITH THE UTILITY COMPANY. HOWEVER, NO DESIGN OR POINT OF CONNECTION HAS BEEN VERIFIED WITH THE SAME. THEREFORE, THE CONTRACTOR SHALL CONTACT THE POWER COMPANY FOR MORE INFORMATION REGARDING THE DESIGN SHOWN IN THE PLANS, INCLUDING ANY PERTINENT INFORMATION REGARDING METERING, PRIMARY SERVICE CONDUIT RESPONSIBILITY, SOURCE OF POWER, VOLTAGE ETC. PRIOR TO SUBMITTING A BID OR QUALIFY THAT IN THE BASE BID TO THE G.C.

THE SAME IS TRUE FOR THE TELE & DATA SERVICES. HOWEVER, THE CONDUIT(S) SHOWN IN THIS DOCUMENT SHALL BE THE MINIMUM(S) AND QUANTITY ALLOWED. THE MAIN COORDINATION WITH THE UTILITY REGARDING TELE AND DATA IS THE DESTINATION POINT AND ANY SPECIAL REQUIREMENTS NOT SHOWN IN THIS DOCUMENT.

NORTH

ELECTRICAL SITE PLAN
 SCALE: 1" = 30'-0"



- ### KEY NOTES
- PROVIDE (1) 1" PVC CONDUIT FOR POWER CONNECTION TO STARBUCKS MONUMENT SIGNAGE. PROVIDE A WEATHERPROOF JUNCTION BOX.
 - PROVIDE (1) 1" PVC CONDUIT FOR POWER CONNECTION TO PRE-MENU SIGN AND (1) 1" PVC CONDUIT WITH PULL STRINGS CONTINUOUS TO TELEPHONE BOARD FOR DATA CONNECTION. PROVIDE A WEATHERPROOF JUNCTION BOX.
 - PROVIDE (1) 1" PVC CONDUIT FOR FUTURE USE TO MENU SIGN AND TO PRE-MENU SIGN.
 - PROVIDE (1) 1" PVC CONDUIT FOR POWER CONNECTION TO MENU SIGN AND (1) 1" PVC CONDUIT WITH PULL STRING CONTINUOUS TO TELEPHONE BOARD FOR DATA CONNECTION. PROVIDE A WEATHERPROOF JUNCTION BOX.
 - PROVIDE (2) 1" PVC CONDUITS FROM OCS/SPEAKER POST (AKA DOS/DCB) TO DRIVE-THRU WINDOW.
 - PROVIDE (1) 1" PVC CONDUIT FROM OCS/SPEAKER POST (AKA DOS/DCB) TO ELECTRICAL PANEL. PROVIDE A WEATHERPROOF JUNCTION BOX.
 - PROVIDE (1) 1" PVC CONDUIT FOR POWER CONNECTION TO STARBUCKS DIRECTIONAL SIGNAGE. NOTE THAT UP TO THREE DIRECTIONAL SIGNS CAN BE SERVED BY A SINGLE CIRCUIT. ADDITIONAL SIGNS REQUIRE A NEW DEDICATED CIRCUIT AND CONDUIT. PROVIDE A WEATHERPROOF JUNCTION BOX.
 - PROVIDE (1) 1" PVC CONDUIT FOR EACH OF TWO TENANT-FURNISHED DETECTOR LOOP SETS IN COORDINATION WITH TENANT CONSTRUCTION MANAGER.
 - PROVIDE (3) SPARE 1" PVC CONDUIT THRU FOUNDATION WALL OUT REAR OF BUILDING, CAPPED AND TERMINATED ABOVE CEILING. VERIFY LOCATION OF SUB-UP WITH TENANT'S REPRESENTATIVE.
 - PROVIDE (1) 1-1/2" CONDUIT FROM DATA RACK @ MANAGER WORKSTATION TO DRIVE-THRU BUMP.
 - EMPTY CONDUITS WITH PULL WIRE IS PROVIDED UNDER THESE DOCUMENTS. ALL WIRING AND CONTROLS ARE PROVIDED AS PART OF INTERIOR DESIGN DOCUMENTS.
 - PROVIDE (2) 1" PVC CONDUIT TO PATIO AREA FROM ELECTRICAL PANEL.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUF.	CATALOG NO.	VOLT	LAMPS	LOAD (W)	MOUNTING
SA	LITHONIA LIGHTING	DSXI-LED-P5-40K-TOCRI-BLC3-MVOLT	208	LED	134	SEE SHEET E1.1 FOR POLE DETAIL
SB	LITHONIA LIGHTING	(2) DSXI-LED-P2-40K-TOCRI-T5M-MVOLT	208	LED	136	
SC	LITHONIA LIGHTING	DSXI-LED-P2-40K-TOCRI-LCCO-MVOLT	208	LED	68	
SD	LITHONIA LIGHTING	DSXI-LED-P2-40K-TOCRI-RCGO-MVOLT	208	LED	68	
SD	LITHONIA LIGHTING	DSXI-LED-P3-40K-TOCRI-T2M-MVOLT-HS	208	LED	103	

GENERAL NOTES:

- PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL FIXTURES.
- ALL FIXTURE SHOWN ARE DESIGNED TO MATCH OTHER EXISTING SITE LIGHTING FIXTURES ON THIS SITE.
- FIXTURE AND POLE FINISH COLOR AS SELECTED BY ARCHITECT.

UTILITY CONTACTS

POWER COMPANY: DUKE. PENDING FINAL COORD.
 CONTACT: KARINE KERSAINT
 TELEPHONE No. (407) 850-2166
 EMAIL: karine.kersaint@duke-energy.com
 DUKE ENERGY CUSTOMER SERVICE #866-372-4663

PHONE COMPANY: LUMENS
 CONTACT: EVNS BENAFILS
 TELEPHONE No. (407) 814-5373
 EMAIL: evns.m.cenafils@lumens.com

CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY REPRESENTATIVE LISTED ABOVE OF THE PRE-CONSTRUCTION MEETING SCHEDULE.

SITE LIGHTING CONTROLS

SITE LIGHTING IS PROVIDED WITH 50/50 CONTROLS WHERE 50% OF THE LIGHTS REMAIN ON ALL NIGHT PHOTOCELL ON/OFF, AND THE OTHER 50% WILL BE CONTROLLED VIA PHOTOCELL ON AND TIME CLOCK OFF ONE HOUR AFTER CLOSING.

CHEYEB & ASSOCIATES, INC.
 CONSULTING PROFESSIONAL ENGINEERS

3702 AZEELE ST. TAMPA, FL 33609 (813) 876-1415 www.cheyeb.com

LIC. #49521 SOUHEIL S. CHEYAYEB CERT. #7340 23-11

FWH Architects

3336 Grand Blvd. Suite 201
 Holiday, Florida 34690
 Ph. 727. 815. 3336
 Fax 727. 815. 3337

Investments

555 S. KIRKMAN RD. SUITE 201
 ORLANDO, FL 32819
 PHONE: 407.342.2300

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEYAYEB, P.E.
 FL License No. 49521

REVISED PER	PLANNING COMMENTS AND MISC.	TENANT	NO.	DATE	REVISION DESCRIPTIONS
10.06.2023					

STARBUCKS SHELL CONSTRUCTION

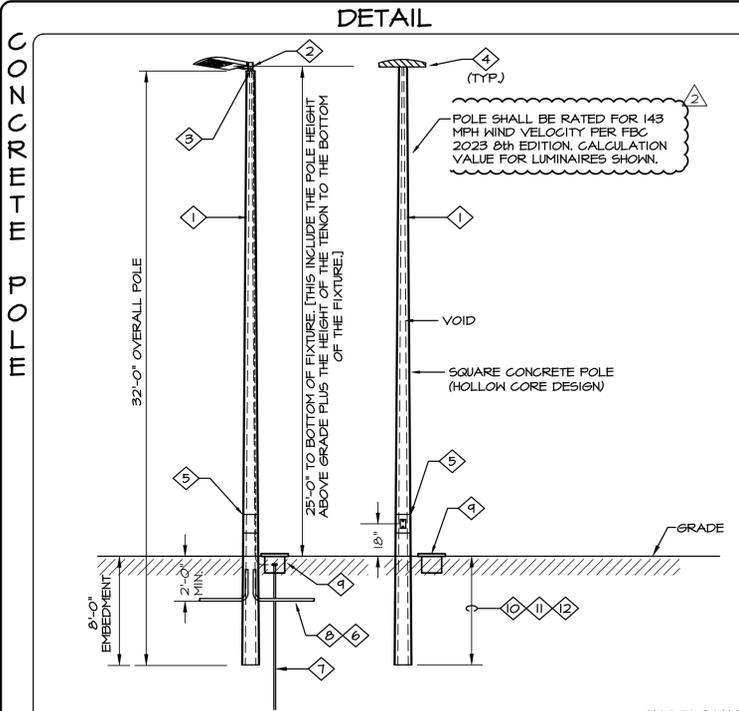
WESTSIDE BLVD & US HWY 192
 KISSIMMEE, FL

03.10.23
 date

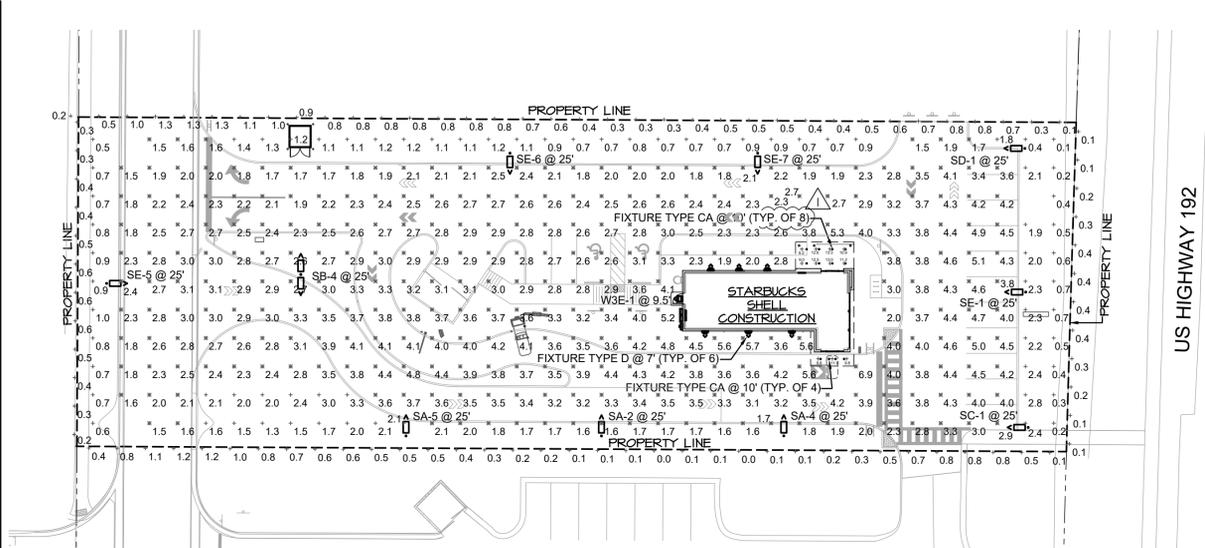
22062
 comm. no.

ELECTRICAL SITE PLAN

E1.0



- NOTES:**
- DIRECT BURIAL POLE SHALL BE RATED FOR WIND VELOCITY PER FBC 2023 6th EDITION. CALCULATION SHALL BE BASED ON THE EPA VALUE FOR THE LUMINAIRE SHOWN PER POLE.
 - ELECTRICAL CONTRACTOR TO COORDINATE THE TYPE OF TENON OR MOUNTING REQUIRED WITH THE FIXTURE MANUFACTURER, TO MOUNT THE SITE LIGHT FIXTURE TO THE POLE AS INTENDED AND INDICATED.
 - NO. 6 GROUND CONDUCTOR, FURNISHED WITH THE POLE, BONDED AT THE J BOX AT THE BOTTOM OF THE POLE, SEE NOTE #4, AND TO THE EQUIPMENT GROUND CONDUCTOR RAN WITH THE CIRCUIT FROM THE DESIGNATED PANEL IN THE BUILDING.
 - LUMINAIRE. SEE FIXTURE SCHEDULE ON THE SITE LIGHTING PLAN FOR QUANTITY, TYPE, AND OPTIC ORIENTATION. PROVIDE PROPER BRACKETS TO MOUNT THE FIXTURE AS SHOWN ON THE PHOTOMETRIC PLAN. COORDINATE WITH THE FACTORY AND PROVIDE BRACKET CUT SHEET TO THE ENGINEER FOR APPROVAL PRIOR TO RELEASE.
 - HAND HOLE AT 18" A.F.S.
 - CONDUIT, EXTEND TO PULL BOX OR NEXT POLE AS REQUIRED.
 - 3/4" x 10'-0" COPPER CLAD GROUND ROD FOR LIGHTNING PROTECTION. CONNECTION TO THE GROUND ROD SHALL BE MADE VIA A UL LISTED MECHANICAL CONNECTION.
 - SEE ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE SIZES AND DESTINATION PANEL. WIRE SIZE UP THE POLE SHALL BE SAME SIZE FEEDING THE POLE.
 - PROVIDE FLUSH IN GRADE 4"x12" LONG PVC SCHEDULE 80 PIPE. PIPE SHALL HAVE A FEMALE ADAPTER WITH SCREW IN COVER ON ONE END. PIPE SHALL BE USED FOR GROUND ROD CONNECTION INSPECTION WELL. LOCATED BEHIND THE BASE OF THE POLE IN A PROTECTED AREA.
 - DEPTH OF THE EMBEDMENT OF THE POLE SHALL BE AS RECOMMENDED BY POLE MANUFACTURER TO MEET REQUIRED WIND LOADING. MINIMUM EMBEDMENT SHALL NOT BE LESS THAN 8'-0", OR AS LISTED IN NOTE #11 BELOW, WHICHEVER IS MORE STRINGENT.
 - PROVIDE EMBEDMENT LENGTH DESIGN, SIGNED AND SEALED BY A FLORIDA CERTIFIED STRUCTURAL ENGINEER, THAT MEETS THE REQUIRED WIND SPEED AS A MINIMUM, BASED ON POLE HEIGHT, FIXTURES EPA RATINGS, AND SITE SOIL CONDITIONS WITH ESTIMATED PASSIVE PRESSURE OF 200 PCF.
 - POLE SHALL BE INSTALLED AS FOLLOWS:
 - USE MINIMUM AUGER SIZE POSSIBLE BASED ON POLE BUTT SIZE TO MINIMIZE DISTURBANCE OF ADJACENT SOIL.
 - PROVIDE 6" COURSE GRANULAR BASE PAD AT BOTTOM OF POLE.
 - BACK FILL AND COMPACT, IN 6" LIFTS, TO 90% OF EXISTING SOIL VALUE.
 - USE CLEAN SOIL FOR COMPACTION.



Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
SA	SA	3	Lithonia Lighting	DSX1 LED P5 40K 70CRI BLC3 MVOLT	D-Series Size 1 Area Luminaire P5 Performance Package 4000K CCT 70 CRI Type 3 Extreme Backlight Control	1	12824	0.95	138.16
SB	SB	1	Lithonia Lighting	DSX1 LED P2 40K 70CRI TSM MVOLT	D-Series Size 1 Area Luminaire P2 Performance Package 4000K CCT 70 CRI Type 5 Medium	1	10195	0.95	135.58
SC	SC	1	Lithonia Lighting	DSX1 LED P2 40K 70CRI LCCO MVOLT	D-Series Size 1 Area Luminaire P2 Performance Package 4000K CCT 70 CRI Left Corner Cutoff Extreme Backlight Control	1	7165	0.95	67.79
SD	SD	1	Lithonia Lighting	DSX1 LED P2 40K 70CRI RCCO MVOLT	D-Series Size 1 Area Luminaire P2 Performance Package 4000K CCT 70 CRI Right Corner Cutoff Extreme Backlight Control	1	7165	0.95	67.79
SE	SE	4	Lithonia Lighting	DSX1 LED P3 40K 70CRI TSM MVOLT HS	D-Series Size 1 Area Luminaire P3 Performance Package 4000K CCT 70 CRI Type 2 Medium House Side Shield	1	11805	0.95	102.17
D	D	6	Kuzco Lighting	EW53908	Wall Mounted	1	203	0.95	9.4
W3E	W3E	1	Lithonia Lighting	DSXW1 LED 10C 530 40K TSM MVOLT - ELCW	DSXW1 LED WITH (1) 10 LED LIGHT ENGINES, TYPE TSM OPTIC, 4000K, @ 530mA	1	2159	0.95	19.1
CA	CA	12	Lithonia Lighting	WF4 LED 30K40K50K MVOLT 90CRI 3000K	4" LED Wafer Selectable White MVOLT 30K40K50K, 3000K	1	762	0.95	10.55

Surface Schedule

Name	Reflectance	Front	Back	X	Y	Z	Area(ft ²)
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	1355.16	
Side 1	0%	0%	-1.00	0.00	0.00	633.51	
Side 2	0%	0%	0.00	1.00	0.00	1777.12	
Side 3	0%	0%	1.00	0.00	0.00	861.13	
Side 4	0%	0%	0.00	-1.00	0.00	378.46	
Side 5	0%	0%	-1.00	0.00	0.00	222.14	
Side 6	0%	0%	0.00	0.00	0.00	1401.40	
Side 7	0%	0%	-0.89	0.45	0.00	6.13	
Top	0%	0%	0.00	0.00	1.00	1355.16	

Luminaire Locations

No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
2	CA	271.83	346.07	10.00	10'	0.00	0.00	271.83	346.07	0.00
5	CA	267.41	341.07	10.00	10'	0.00	0.00	267.41	341.07	0.00
7	CA	271.83	341.07	10.00	10'	0.00	0.00	271.83	341.07	0.00
8	CA	267.41	346.07	10.00	10'	0.00	0.00	267.41	346.07	0.00
9	CA	272.33	307.41	10.00	10'	0.00	0.00	272.33	307.41	0.00
10	CA	275.33	307.41	10.00	10'	0.00	0.00	275.33	307.41	0.00
11	CA	277.66	307.41	10.00	10'	0.00	0.00	277.66	307.41	0.00
12	CA	280.66	307.41	10.00	10'	0.00	0.00	280.66	307.41	0.00
1	D	231.52	317.20	7.00	7'	180.00	0.00	231.52	317.20	0.00
2	D	246.77	317.17	7.00	7'	180.00	0.00	246.77	317.17	0.00
3	D	262.20	317.15	7.00	7'	180.00	0.00	262.20	317.15	0.00
4	D	233.50	338.61	7.00	7'	0.00	0.00	233.50	338.61	0.00
5	D	243.48	338.61	7.00	7'	0.00	0.00	243.48	338.61	0.00
6	D	253.55	338.61	7.00	7'	0.00	0.00	253.55	338.61	0.00
2	SA	194.82	280.30	25.00	25'	0.00	0.00	194.82	280.30	0.00
4	SA	259.31	280.30	25.00	25'	0.00	0.00	259.31	280.30	0.00
1	SC	345.82	283.30	25.00	25'	270.00	0.03	343.07	283.30	0.00
1	SD	344.66	381.59	25.00	25'	270.00	0.03	341.90	381.59	0.00
1	W3E	223.42	328.61	9.50	9' 6"	270.00	0.00	222.92	328.61	0.00
13	CA	276.47	346.07	10.00	10'	0.00	0.00	276.47	346.07	0.00
14	CA	276.47	341.07	10.00	10'	0.00	0.00	276.47	341.07	0.00
15	CA	281.16	346.07	10.00	10'	0.00	0.00	281.16	346.07	0.00
16	CA	281.16	341.07	10.00	10'	0.00	0.00	281.16	341.07	0.00
5	SA	125.63	280.30	25.00	25'	0.00	0.00	125.63	280.30	0.00
4	SB	88.41	337.17	25.00	25'	180.00	0.00	88.41	334.42	0.00
SB-1	88.41	334.42	25.00	25.00	180.00	0.00	0.00	88.41	339.92	0.00
SB-2	88.41	339.92	25.00	25.00	0.00	0.00	0.00	88.41	339.92	0.00
1	SE	344.96	330.97	25.00	25'	270.00	0.03	342.20	330.97	0.00
5	SE	19.69	334.06	25.00	25'	90.00	0.00	22.44	334.06	0.00
6	SE	162.43	379.92	25.00	25'	180.00	0.03	162.43	377.16	0.00
7	SE	250.09	379.92	25.00	25'	180.00	0.03	250.09	377.16	0.00

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
1. OVERALL SITE	+	2.7 fc	6.9 fc	0.1 fc	69.0:1	27.0:1
2. PROPERTY LINE	+	0.5 fc	1.3 fc	0.0 fc	N/A	N/A
3. PATIO AREA	+	11.5 fc	13.3 fc	9.0 fc	1.5:1	1.3:1
4. DRIVE THRU CANOPY	+	10.5 fc	11.9 fc	9.8 fc	1.2:1	1.1:1
5. PAVED & PARKING AREAS	X	3.0 fc	6.9 fc	1.5 fc	4.6:1	2.0:1

FIXTURE NOTE:
 FIXTURE SHOWN ON THIS SHEET IS FOR REFERENCE ONLY. SEE ACTUAL FIXTURE SCHEDULE ELSE WHERE IN THIS DOCUMENTS FOR ACTUAL CATALOG NUMBER AND DESCRIPTION.

ALL SITE AND BUILDING LIGHTS PROPOSED ON THIS PROJECT ARE DESIGNED AS FULL CUTOFF CLASSIFICATION WITH ZERO UP LIGHT COMPONENTS.

THESE PHOTOMETRICS ARE INTENDED FOR DESIGN AND EVALUATION PURPOSES ONLY. THE POINT-BY-POINT SHOWN IS BASED ON A COMPUTER LIGHTING PROGRAM WITH APPROXIMATED PARAMETERS. THEREFORE, THESE PHOTOMETRICS MAY VARY FROM ACTUAL FIELD CONDITIONS.

CHEHAYEB & ASSOCIATES, INC.
 CONSULTING PROFESSIONAL ENGINEERS
 3702 AZEEL ST. TAMPA, FL 33609 (813) 876-1415 www.chehayeb.com
 LIC. #49521 SOUHEIL S. CHEHAYEB CERT. #7340



3336 Grand Blvd. Suite 201
 Holiday, Florida 34690
 Ph. 727. 815. 3336
 Fax 727. 815. 3337



TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEHAYEB, P.E.
 FL License No. 49521

REVISED PER PLANNING COMMENTS AND MISC. TENANT COORD.	REVISED PER BUILDING PERMIT COMMENTS	revision descriptions
10/06/2023	02/05/2024	date
		no.

STARBUCKS SHELL CONSTRUCTION
 WESTSIDE BLVD & US HWY 192
 KISSIMMEE, FL

03.10.23
 date
 22062
 comm. no.

PHOTOMETRIC SITE PLAN

E1.1



Specifications

EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (831 mm)
Width: 14.26" (362 mm)
Height H1: 7.88" (200 mm)
Height H2: 2.73" (69 mm)
Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DBBXD

Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipping included
DSX1 LED	Forward optics					
	F1	P6	30K 3000K	70CRI	A/R	Adjustive front row
	F2	P7	40K 4000K	70CRI	T/S	Type I short
	F3	P8	50K 5000K	70CRI	T/M	Type II medium
	F4	P9	50K 5000K	70CRI	T/W	Type III wide
Retained optics						
P10	P12	27K 2700K	80CRI	T/M	Type II medium	
P11	P13	30K 3000K	80CRI	T/W	Type III wide	
Other options						
PER7 Seven-pin receptacle only (controls ordered separately)						
FAO Field adjustable output						
BL30 Bi-level switched dimming, 50% ^{1,2}						
BL35 Bi-level switched dimming, 50% ^{1,2}						
BL50 Bi-level switched dimming, 50% ^{1,2}						
DMG 5-10 dimming wires pulled outside fixture for use with an external control (not recommended)						
DS Dual switching						
Finish required						
DDBD Dark Bronze						
DDBL Black						
DNDK Natural Aluminum						
DNDW White						
DNDT Textured dark bronze						
DNDL Textured black						
DNDI Textured natural aluminum						
DNDG Textured white						
RRS Round pole mounting #8 drilling						
SRA Square pole mounting #8 drilling						
SRAK Square narrow pole mounting #8 drilling						
WBA Wall bracket						

Control options

Shipped installed

NIAR2 PIRHN 40 gpm 40 gpm 1' installed with bi-level motion / ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PIR High flow, motion/ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PER NIAR2 back rest receptacle only (controls ordered separately)

PER5 Five-pin receptacle only (controls ordered separately)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com
© 2011-2022 Acuity Brands Lighting, Inc. All rights reserved.



Specifications

EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (831 mm)
Width: 14.26" (362 mm)
Height H1: 7.88" (200 mm)
Height H2: 2.73" (69 mm)
Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DBBXD

Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipping included
DSX1 LED	Forward optics					
	F1	P6	30K 3000K	70CRI	A/R	Adjustive front row
	F2	P7	40K 4000K	70CRI	T/S	Type I short
	F3	P8	50K 5000K	70CRI	T/M	Type II medium
	F4	P9	50K 5000K	70CRI	T/W	Type III wide
Retained optics						
P10	P12	27K 2700K	80CRI	T/M	Type II medium	
P11	P13	30K 3000K	80CRI	T/W	Type III wide	
Other options						
PER7 Seven-pin receptacle only (controls ordered separately)						
FAO Field adjustable output						
BL30 Bi-level switched dimming, 50% ^{1,2}						
BL35 Bi-level switched dimming, 50% ^{1,2}						
BL50 Bi-level switched dimming, 50% ^{1,2}						
DMG 5-10 dimming wires pulled outside fixture for use with an external control (not recommended)						
DS Dual switching						
Finish required						
DDBD Dark Bronze						
DDBL Black						
DNDK Natural Aluminum						
DNDW White						
DNDT Textured dark bronze						
DNDL Textured black						
DNDI Textured natural aluminum						
DNDG Textured white						
RRS Round pole mounting #8 drilling						
SRA Square pole mounting #8 drilling						
SRAK Square narrow pole mounting #8 drilling						
WBA Wall bracket						

Control options

Shipped installed

NIAR2 PIRHN 40 gpm 40 gpm 1' installed with bi-level motion / ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PIR High flow, motion/ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PER NIAR2 back rest receptacle only (controls ordered separately)

PER5 Five-pin receptacle only (controls ordered separately)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com
© 2011-2022 Acuity Brands Lighting, Inc. All rights reserved.



Specifications

EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (831 mm)
Width: 14.26" (362 mm)
Height H1: 7.88" (200 mm)
Height H2: 2.73" (69 mm)
Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DBBXD

Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipping included
DSX1 LED	Forward optics					
	F1	P6	30K 3000K	70CRI	A/R	Adjustive front row
	F2	P7	40K 4000K	70CRI	T/S	Type I short
	F3	P8	50K 5000K	70CRI	T/M	Type II medium
	F4	P9	50K 5000K	70CRI	T/W	Type III wide
Retained optics						
P10	P12	27K 2700K	80CRI	T/M	Type II medium	
P11	P13	30K 3000K	80CRI	T/W	Type III wide	
Other options						
PER7 Seven-pin receptacle only (controls ordered separately)						
FAO Field adjustable output						
BL30 Bi-level switched dimming, 50% ^{1,2}						
BL35 Bi-level switched dimming, 50% ^{1,2}						
BL50 Bi-level switched dimming, 50% ^{1,2}						
DMG 5-10 dimming wires pulled outside fixture for use with an external control (not recommended)						
DS Dual switching						
Finish required						
DDBD Dark Bronze						
DDBL Black						
DNDK Natural Aluminum						
DNDW White						
DNDT Textured dark bronze						
DNDL Textured black						
DNDI Textured natural aluminum						
DNDG Textured white						
RRS Round pole mounting #8 drilling						
SRA Square pole mounting #8 drilling						
SRAK Square narrow pole mounting #8 drilling						
WBA Wall bracket						

Control options

Shipped installed

NIAR2 PIRHN 40 gpm 40 gpm 1' installed with bi-level motion / ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PIR High flow, motion/ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PER NIAR2 back rest receptacle only (controls ordered separately)

PER5 Five-pin receptacle only (controls ordered separately)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com
© 2011-2022 Acuity Brands Lighting, Inc. All rights reserved.



Specifications

EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (831 mm)
Width: 14.26" (362 mm)
Height H1: 7.88" (200 mm)
Height H2: 2.73" (69 mm)
Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DBBXD

Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipping included
DSX1 LED	Forward optics					
	F1	P6	30K 3000K	70CRI	A/R	Adjustive front row
	F2	P7	40K 4000K	70CRI	T/S	Type I short
	F3	P8	50K 5000K	70CRI	T/M	Type II medium
	F4	P9	50K 5000K	70CRI	T/W	Type III wide
Retained optics						
P10	P12	27K 2700K	80CRI	T/M	Type II medium	
P11	P13	30K 3000K	80CRI	T/W	Type III wide	
Other options						
PER7 Seven-pin receptacle only (controls ordered separately)						
FAO Field adjustable output						
BL30 Bi-level switched dimming, 50% ^{1,2}						
BL35 Bi-level switched dimming, 50% ^{1,2}						
BL50 Bi-level switched dimming, 50% ^{1,2}						
DMG 5-10 dimming wires pulled outside fixture for use with an external control (not recommended)						
DS Dual switching						
Finish required						
DDBD Dark Bronze						
DDBL Black						
DNDK Natural Aluminum						
DNDW White						
DNDT Textured dark bronze						
DNDL Textured black						
DNDI Textured natural aluminum						
DNDG Textured white						
RRS Round pole mounting #8 drilling						
SRA Square pole mounting #8 drilling						
SRAK Square narrow pole mounting #8 drilling						
WBA Wall bracket						

Control options

Shipped installed

NIAR2 PIRHN 40 gpm 40 gpm 1' installed with bi-level motion / ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PIR High flow, motion/ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PER NIAR2 back rest receptacle only (controls ordered separately)

PER5 Five-pin receptacle only (controls ordered separately)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com
© 2011-2022 Acuity Brands Lighting, Inc. All rights reserved.



Specifications

EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (831 mm)
Width: 14.26" (362 mm)
Height H1: 7.88" (200 mm)
Height H2: 2.73" (69 mm)
Weight: 34 lbs (15 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DBBXD

Series	LEDs	Color temperature	Color Rendering Index	Distribution	Mounting	Shipping included
DSX1 LED	Forward optics					
	F1	P6	30K 3000K	70CRI	A/R	Adjustive front row
	F2	P7	40K 4000K	70CRI	T/S	Type I short
	F3	P8	50K 5000K	70CRI	T/M	Type II medium
	F4	P9	50K 5000K	70CRI	T/W	Type III wide
Retained optics						
P10	P12	27K 2700K	80CRI	T/M	Type II medium	
P11	P13	30K 3000K	80CRI	T/W	Type III wide	
Other options						
PER7 Seven-pin receptacle only (controls ordered separately)						
FAO Field adjustable output						
BL30 Bi-level switched dimming, 50% ^{1,2}						
BL35 Bi-level switched dimming, 50% ^{1,2}						
BL50 Bi-level switched dimming, 50% ^{1,2}						
DMG 5-10 dimming wires pulled outside fixture for use with an external control (not recommended)						
DS Dual switching						
Finish required						
DDBD Dark Bronze						
DDBL Black						
DNDK Natural Aluminum						
DNDW White						
DNDT Textured dark bronze						
DNDL Textured black						
DNDI Textured natural aluminum						
DNDG Textured white						
RRS Round pole mounting #8 drilling						
SRA Square pole mounting #8 drilling						
SRAK Square narrow pole mounting #8 drilling						
WBA Wall bracket						

Control options

Shipped installed

NIAR2 PIRHN 40 gpm 40 gpm 1' installed with bi-level motion / ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PIR High flow, motion/ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PER NIAR2 back rest receptacle only (controls ordered separately)

PER5 Five-pin receptacle only (controls ordered separately)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com
© 2011-2022 Acuity Brands Lighting, Inc. All rights reserved.



Specifications Luminaire

Width: 13.3/4" (34.0 mm) Weight: 12 lbs (5.4 kg)
Depth: 10" (254 mm)
Height: 6.3/8" (16.0 mm)

Introduction

The D-Series Wall Luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of night-time use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series WFL is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DBDXTD

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Shipping included	Control Options	Other Options	Finish required	
DSXW LED	Forward optics										
	W1	11100	350	1000mA	30K 3000K	70CRI	T/S	Type I short	120V	120V	DDBD Dark Bronze
DSXW LED	Retained optics										
	W2	22110	700	2000mA	50K 5000K	70CRI	T/M	Type II medium	240V	240V	DDBL Black
Other options											
AMPC Ambient (photo) sensor											
T/S Type I short											
T/M Type II medium											
T/W Type III wide											
DMG 5-10 dimming wires pulled outside fixture for use with an external control (not recommended)											
DS Dual switching											
Finish required											
DDBD Dark Bronze											
DDBL Black											
DNDK Natural Aluminum											
DNDW White											
DNDT Textured dark bronze											
DNDL Textured black											
DNDI Textured natural aluminum											
DNDG Textured white											
RRS Round pole mounting #8 drilling											
SRA Square pole mounting #8 drilling											
SRAK Square narrow pole mounting #8 drilling											
WBA Wall bracket											

Control options

Shipped installed

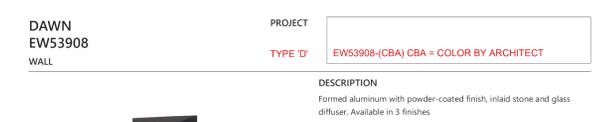
NIAR2 PIRHN 40 gpm 40 gpm 1' installed with bi-level motion / ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PIR High flow, motion/ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PER NIAR2 back rest receptacle only (controls ordered separately)

PER5 Five-pin receptacle only (controls ordered separately)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-279-8041 • Fax: 770-918-1209 • www.lithonia.com
© 2011-2022 Acuity Brands Lighting, Inc. All rights reserved.



Specifications

Width: 13.3/4" (34.0 mm) Weight: 12 lbs (5.4 kg)
Depth: 10" (254 mm)
Height: 6.3/8" (16.0 mm)

Ordering Information EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DBDXTD

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Shipping included	Control Options	Other Options	Finish required	
DSXW LED	Forward optics										
	W1	11100	350	1000mA	30K 3000K	70CRI	T/S	Type I short	120V	120V	DDBD Dark Bronze
DSXW LED	Retained optics										
	W2	22110	700	2000mA	50K 5000K	70CRI	T/M	Type II medium	240V	240V	DDBL Black
Other options											
AMPC Ambient (photo) sensor											
T/S Type I short											
T/M Type II medium											
T/W Type III wide											
DMG 5-10 dimming wires pulled outside fixture for use with an external control (not recommended)											
DS Dual switching											
Finish required											
DDBD Dark Bronze											
DDBL Black											
DNDK Natural Aluminum											
DNDW White											
DNDT Textured dark bronze											
DNDL Textured black											
DNDI Textured natural aluminum											
DNDG Textured white											
RRS Round pole mounting #8 drilling											
SRA Square pole mounting #8 drilling											
SRAK Square narrow pole mounting #8 drilling											
WBA Wall bracket											

Control options

Shipped installed

NIAR2 PIRHN 40 gpm 40 gpm 1' installed with bi-level motion / ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PIR High flow, motion/ambient sensor, 4-40' mounting height, ambient sensor enabled at 26"^{1,2,3}

PER NIAR2 back rest receptacle only (controls ordered separately)

PER5 Five-pin receptacle only (controls ordered separately)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-279-8041 • Fax: 770-918-1209 • www.lithonia.com
© 2011-2022 Acuity Brands Lighting, Inc. All rights reserved.



Specifications

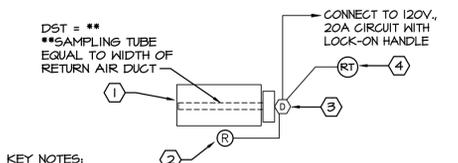
Aperture: 3.2 (81)
Cutting opening: 4.2 (107)
Overall height: 4.7 (120)
Height: 1.1 (28)

Ordering Information For shortest lead time, configure product using standard options (shown in bold).

Series	LED	
--------	-----	--

DUCT DETECTOR

WIRING DETAIL

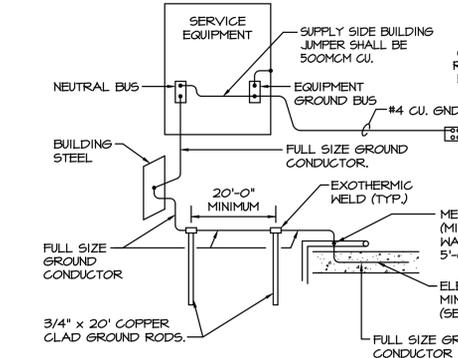


- GENERAL NOTES:
- DUCT DETECTOR & MULTI-SIGNALING ACCESSORY MODEL NUMBERS ARE FROM SYSTEM SENSOR.
 - ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE LATEST LOCAL CODES.
 - SMOKE DETECTOR TO BE SUPPLIED BY ELECTRICAL CONTRACTOR TO PROVIDE, FIRE AND TEST OPERATION OF DETECTOR AND NOTIFICATION DEVICES.
 - ELECTRICAL CONTRACTOR TO PROVIDE, FIRE AND TEST OPERATION OF DETECTOR AND NOTIFICATION DEVICES.
 - UPON ACTIVATION OF DUCT SMOKE DETECTOR THE HVAC UNIT SHALL SHUT DOWN PROVIDE ADDITIONAL RELAYS REQUIRED TO ACCOMPLISH THIS TASK.

KEY NOTES:

- RETURN AIR DUCT AND/OR SUPPLY AIR DUCT. SEE FLOOR PLAN SHEET FOR LOCATION AND QUANTITY. COORDINATE WITH MECHANICAL CONTRACTOR.
- CONTROL RELAY FOR SHUT DOWN OF RTU'S.
- SYSTEM SENSOR D4120 PHOTOELECTRIC 120V AC SMOKE DETECTOR. DUCT SMOKE DETECTOR SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR IN DUCTWORK AND WIRED BY ELECTRICAL CONTRACTOR.
- SYSTEM SENSOR RTS2-AOS REMOTE TEST STATION WITH STROBE

GROUNDING DETAIL



- NOTES:
- FULL SIZE GROUND MEANS THAT GROUND CONDUCTOR SIZE SHALL BE AS SHOWN ON SERVICE EQUIPMENT ON THE POWER RISER DIAGRAM.
 - AFTER GROUNDING SYSTEM IS INSTALLED, GROUND RESISTANCE SHALL BE MEASURED, TO ASSURE THAT GROUND VALUE OF 10 OHM MAXIMUM RESISTANCE IS ACHIEVED. IF NOT, ADDITIONAL GROUNDING SHALL BE PROVIDED TO MEET THE SPECIFIED VALUE.
 - ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD CONNECTIONS.
 - GROUND CONDUCTOR SHALL BE LOCATED WITHIN OR NEAR BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, AND SHALL CONSIST OF AT LEAST 20 FEET OF ONE OR MORE STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH DIAMETER, OR OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR.
 - PROVIDED AN INSPECTION PORT ENCLOSURE AS REQUIRED BY ELECTRICAL UTILITY. COORDINATE WITH UTILITY COMPANY AND PROVIDE ACCORDINGLY.

NOTICE:

THE INFORMATION SHOWN IN THIS DETAIL SHALL BE CONSIDERED AS THE MINIMUM REQUIREMENTS, AND SHALL NOT BE REDUCED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

SEE KEY NOTE #14 THIS SHEET

METALLIC UNDER GROUND (MINIMUM 10'-0" LONG) WATER PIPE - BOND WITHIN 5'-0" AFTER ENTERING BUILDING

ELECTRODE ENCASED IN MIN. 2" OF CONCRETE (SEE NOTE #4 & #5)

3/4" x 20' COPPER CLAD GROUND RODS.

MANUFACTURER:		SIEMENS		PANEL: A		LOCATION:		SEE PLANS		SPECIAL:											
PANEL TYPE:		PANEL BOARD		FED FROM: DISCONNECT		120/208 VOLTS 3 PHASE 4 WIRE/SOLID NEUTRAL		AMPERE BUS 225		AMPERE MAIN 225											
42K INTERRUPTING CAPACITY (AIC)		RATED SERIES: X FULL		MOUNTING: FLUSH X SURFACE		MAIN TYPE		LUGS													
No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.	
1	5.2					RTU-1	A3	60	5.2			20		SPARE					0.0	2	
3	5.2		3#6	1#10	1"		A3	60	5.2			20		SPARE					0.0	4	
5	5.2						A3	60	5.2			20		SPARE					0.0	6	
7	0.6		2#12	1#12	1/2"	AUTOMATIC SLIDE WINDOW	M	20	1.0			20	L	INTERIOR LIGHTING	2#12	1#12	1/2"		0.4	8	
9	0.4		2#12	1#12	1/2"	EXTERIOR RECEPT	M	20	1.2			20	L	EXTERIOR LIGHTING	2#12	1#12	1/2"	C2	0.8	10	
11	1.8		2#8	1#8	1"	BP-1	M	40	1.8			20	L	EXTERIOR WALL PACKS	2#12	1#12	1/2"	C2	0.1	12	
13	1.8						M	40	1.8			20		SPARE					0.0	14	
15	0.0					SPARE		20		0.0		20		SPARE					0.0	16	
17	0.0					SPARE		20		0.0		20		SPARE					0.0	18	
19	0.0					SPARE		20	0.0			20		SPARE					0.0	20	
21	0.0					SPARE		20		0.0		20		SPARE					0.0	22	
23	0.0					SPARE		20		0.0		20		SPARE					0.0	24	
25	0.0					SPARE		20	0.0			20		SPARE					0.0	26	
27	0.0					SPARE		20		0.0		20		SPARE					0.0	28	
29	0.0					SPARE		20		0.0		20		SPARE					0.0	30	
31	0.0					SPARE		20	0.4			20(L)	M	TIME CLOCK POWER	2#12	1#12	1/2"		0.4	32	
33	0.0					SPARE		20		0.4		20	M	MAINTENANCE RECEPT	2#12	1#12	1/2"		0.4	34	
35	0.4		2#12	1#12	1/2"	DUCT SMOKE DETECTOR	M	20(L)			1.1		L								36
37	0.0							30	0.7			20	L	SITE LIGHTING	(*)	(*)	(*)	C1	0.7	38	
39	0.0		4#10	1#10	3/4"	SURGE SUPPRESSION		(L)		0.6		20	L	SITE LIGHTING	(*)	(*)	(*)	C2	0.6	40	
41	0.0									0.6		20	L	SITE LIGHTING	(*)	(*)	(*)	C2	0.6	42	
43	0.0					SPARE		20	0.0			20		SPARE					0.0	44	
45	0.0					SPARE		20		0.0		20		SPARE					0.0	46	
47	0.0					SPARE		20		0.5		20	M	EXHAUST FAN	2#12	1#12	1/2"		0.5	48	
49	0.0					SPARE		20		0.0		20		SPARE					0.0	50	
51	0.0	GFI				SPARE		20		0.0		20		SPARE				GFI	0.0	52	
53	0.0	GFI				SPARE		20		0.0		20		SPARE				GFI	0.0	54	
55	0.0	GFI				SPARE		40		0.0		20		SPARE					0.0	56	
57	0.0					SPARE		20		0.0		20		SPARE					0.0	58	
59	0.0					SPARE		20		0.0		20		SPARE					0.0	60	
61	0.0					SPARE		20		0.0		20		SPARE					0.0	62	
63	0.0					SPARE		20		0.0		20		SPARE					0.0	64	
65	0.4		2#12	1#12	1/2"	IRRIGATION CONTROLLER	M	20			0.4	20		SPARE					0.0	66	

LEGEND/NOTES:

20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER

KVA SUB TOTALS: 9.1 7.4 9.7

CONNECTED LOAD KVA: 26.2

STD. DEMAND FACTOR (1.0): 22.3

+ LTG DEMAND (1.25 LTG): 4.9

+ KITCHEN DEMAND: 0.0

TOTAL DEMAND KVA: 27.2

DEMAND AMPERES: 75.4

KITCHEN MULTIPLIER PER NEC 2020 TABLE 220.56

MANUFACTURER:		SIEMENS		PANEL: B		LOCATION:		SEE PLANS		SPECIAL:											
PANEL TYPE:		PANEL BOARD		FED FROM: DISCONNECT		120/208 VOLTS 3 PHASE 4 WIRE/SOLID NEUTRAL		AMPERE BUS 225		AMPERE MAIN 225											
42K INTERRUPTING CAPACITY (AIC)		RATED SERIES: X FULL		MOUNTING: FLUSH X SURFACE		MAIN TYPE		LUGS													
No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.	
1	0.0					SPARE		20	0.0			20		SPARE					GFI	0.0	2
3	0.0					SPARE		20	0.0			20		SPARE					GFI	0.0	4
5	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	6
7	0.0					SPARE		20	0.0			20		SPARE					GFI	0.0	8
9	0.0	GFI				SPARE		30		0.0		20		SPARE					GFI	0.0	10
11	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	12
13	0.0	GFI				SPARE		50	0.0			20		SPARE					GFI	0.0	14
15	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	16
17	0.0	GFI				SPARE		30		0.0		20		SPARE					GFI	0.0	18
19	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	20
21	0.0	GFI				SPARE		30		0.0		20		SPARE					GFI	0.0	22
23	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	24
25	0.0					SPARE		20	0.0			20		SPARE					GFI	0.0	26
27	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	28
29	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	30
31	0.0					SPARE		50	0.0			20		SPARE					GFI	0.0	32
33	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	34
35	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	36
37	0.0	GFI				SPARE		40		0.0		30(L)		SPARE					GFI	0.0	38
39	0.0	GFI				SPARE		40		0.0		30(L)		SURGE SUPP.	4#10	1#10	3/4"		0.0	40	
41	0.0					SPARE		40		0.0		30(L)		SPARE					GFI	0.0	42
43	0.0					SPARE		20	0.0			20		SPARE					GFI	0.0	44
45	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	46
47	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	48
49	0.0					SPARE		20	0.0			20		SPARE					GFI	0.0	50
51	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	52
53	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	54
55	0.0					SPARE		20	0.0			20		SPARE					GFI	0.0	56
57	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	58
59	0.0					SPARE		20		0.0		20		SPARE					GFI	0.0	60
61	0.0					SPARE		20	3.6			A3		SPARE					3.6	62	
63	0.0					SPARE		20		3.6		A3		SPARE					3.6	64	
65	0.8	GFI	2#10	1#10	3/4"	PATIO RECEPTACLES	R	20			4.4	A3		RTU-2	3#6	1#10	1"		3.6	64	

LEGEND/NOTES:

20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER

KVA SUB TOTALS: 3.6 3.6 4.4

CONNECTED LOAD KVA: 11.6

STD. DEMAND FACTOR (1.0): 11.6

+ LTG DEMAND (1.25 LTG): 0.0

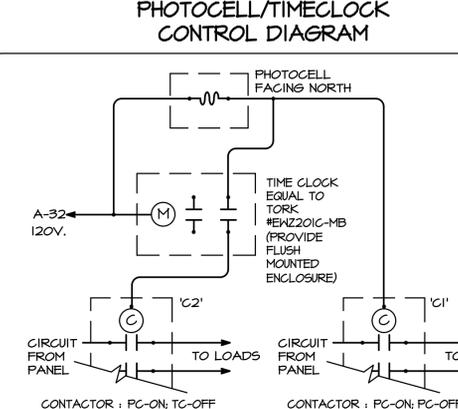
+ KITCHEN DEMAND: 0.0

TOTAL DEMAND KVA: 11.6

DEMAND AMPERES: 32.2

KITCHEN MULTIPLIER PER NEC 2020 TABLE 220.56

EXTERIOR LIGHTING CONTROL DETAIL



- NOTES:
- TIME CLOCK SHALL BE SET FOR "ON" AT 4:00 PM AND "OFF" AS DIRECTED BY OWNER. THESE SETTINGS WILL ALLOW THE PHOTOCELL TO PERFORM THE "ON" FUNCTION OF ALL THE EXTERIOR LIGHTING, AND ALLOW FOR TIME OVERRIDE TO SHUT OFF PRE-SELECTED LIGHTING AT ONE HOUR AFTER STORE CLOSING.
 - TIME CLOCK FUNCTION SHALL INCLUDE:
 - SEVEN DAY CLOCK.
 - CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK.
 - HAVE AUTOMATIC HOLIDAY SET BACK FEATURES.
 - MINIMUM OF 10 HOURS OF RESERVE POWER, UPON POWER FAILURE.
 - THO CHANNEL MINIMUM.
 - ASTRONOMIC TIME CLOCK.
 - TORQ CAT. NO. LISTED ABOVE COMPLY WITH ALL THE REQUIRED FEATURES LISTED ABOVE AND COMPLY WITH SEC 2023 WITH 8TH EDITION ENERGY CONSERVATION SECTION C408.2.6.4

NOTES

- (2) SETS OF 3" CONDUITS WITH (4) #4/0 CU. IN EACH.
- #1/0 CU. GROUND. SEE GROUNDING DETAIL ON THIS SHEET.
- 400AMP, 120/208V, 3-PHASE METER, FURNISHED AND INSTALLED BY CONTRACTOR PER UTILITY COMPANY SPECIFICATIONS AND REQUIREMENTS.
- (4) #3/0 CU. AND (1) #6 E.S. IN 2-1/2" CONDUIT.
- 3-PH, 4-W, SERVICE ENTRANCE RATED, NEMA 3R, 200A, FUSED DISCONNECT, FUSED AT 200 AMPS, HEAVY DUTY, SWITCH WITH SOLID NEUTRAL, CLASS 'J' FUSES. DISCONNECT SHALL BE LOCKABLE IN THE ON OR OFF POSITIONS.
- TIME CLOCK. SEE DETAIL THIS SHEET.
- NEW 3-PH, 120/208V., PAD MOUNTED TRANSFORMER. SEE ELECTRICAL SITE PLAN SHEET E1.0.
- LIGHTNING SURGE SUPPRESSOR. EQUAL TO SURGE SUPPRESSION INC. STM-30D-3Y1-P (120/208V, 3-PHASE, 5 WIRE) WITH FLUSH MOUNTED PLATE. SEE WIRING DETAIL THIS SHEET.
- PHOTOCELL (120V) MOUNTED ON ROOF FACING NORTH. SEE CONTROL DETAIL THIS SHEET.
- ELECTRICALLY HELD 3 POLE FLUSH MOUNTED LIGHTING CONTACTOR EQUAL TO SQUARE D[®] LF-80-V02, TO CONTROL EXTERIOR LIGHTING. SEE CONTROL DETAIL THIS SHEET.
- (4) #3/0 CU. AND (1) #1/0 LINE SIDE BONDING JUMPER IN 2-1/2" CONDUIT.
- 12"x12" LENGTH AS REQUIRED N3R WIREWAY. PROVIDE POLARIS TYPE CONNECTORS INCLUDING NEUTRAL AND GROUNDS.
- (2) SETS OF 2-1/2" CONDUITS WITH 4-#3/0, AND #1/0 LINE SIDE BONDING JUMPER IN EACH.
- INTER SYSTEM BONDING TERMINATION WITH A MINIMUM OF THREE TERMINATION REQUIRED, IN COMPLIANCE WITH N.E.C. 2020 EDITION ARTICLE 250.44, EXTERIOR RATED.

PANEL SCHEDULE LEGEND

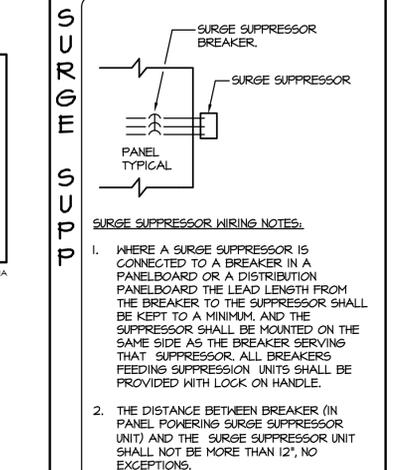
- LOAD CODES**
- A/A3 = HVAC LOAD
 - K# = KITCHEN LOADS (1, 2 OR 3 CIRCUIT)
 - L/L3 = LIGHTING LOAD
 - M/M3 = MISCELLANEOUS LOAD
 - R = RECEPTACLE LOAD
 - F/F3 = REFRIGERATION LOAD
 - W/W3 = WATER HEATER
 - U/U3 = USER SPECIFIED LOAD
 - X = EXCLUDED, NON-CONCURRENT LOAD. (HVAC LOADS ARE NON-CONCURRENT; TOTALS BASED ON HIGHER VALUE.)
- DESIGNATION**
- IG = ISOLATED GROUND CIRCUIT
 - GFI = GROUND FAULT INTERRUPTER
 - C# = CONTACTOR CONTROLLED (#) INDICATES CONTACTOR NUMBER
 - PC = PHOTOCELL CONTROLLED
 - R# = CONTROLLED BY LCP. (#) INDICATES RELAY NUMBER
 - SF = SUB-FEED BREAKER
 - NB = NEW BREAKER TO MATCH EXISTING IN TYPE, STYLE AND AIC RATINGS.

NOTICE

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ARC FLASH LABELS AS REQUIRED BY NFPA TO (NEC) 110.16, AND PERSONAL PROTECTIVE EQUIPMENT (PPE) RATING PLACARDS PER NFPA 70E FOR ALL NEW PANELBOARDS AND SWITCHGEAR.

CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FIELD MARKING PANELBOARDS AND SWITCHGEAR WITH THE AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED PER NFPA TO (NEC) 110.24.

INSTALLATION DIAGRAM



- SURGE SUPPRESSOR WIRING NOTES:**
- WHERE A SURGE SUPPRESSOR IS CONNECTED TO A BREAKER IN A PANELBOARD OR A DISTRIBUTION PANELBOARD THE LEAD LENGTH FROM THE BREAKER TO THE SUPPRESSOR SHALL BE KEPT TO A MINIMUM, AND THE SUPPRESSOR SHALL BE MOUNTED ON THE SAME SIDE AS THE BREAKER SERVING THAT SUPPRESSOR. ALL BREAKERS FEEDING SUPPRESSION UNITS SHALL BE PROVIDED WITH LOCK ON HANDLE.
 - THE DISTANCE BETWEEN BREAKER (IN PANEL

DIVISION 16 – ELECTRICAL

N138

SECTION 16010 – GENERAL PROVISIONS

- 1. GENERAL
1.01 The following are minimum requirements and shall govern, except that building laws and/or drawings shall govern when their requirements are in excess thereof.
2. DRAWINGS AND SPECIFICATIONS
2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division.
2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping.
2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field, and the work shall be laid out accordingly.
2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both.
2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.
2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.
2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.
3. EXAMINATION OF SITE
3.01 Bidder is to visit the site and familiarize himself with existing conditions and satisfy himself as to the nature and scope of work.
4. DEFINITIONS
4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.
4.02 "Furnish" shall mean to purchase and supply equipment or components.
4.03 "Provide" shall mean to "furnish and install".
4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.
5. INTERFERENCES
5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered.
6. MATERIALS AND WORKMANSHIP
6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.
6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects and shall be the best of their several kinds.
6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.
6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the operation broom clean.
6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.
7. SUPPORTS
7.01 This Contractor shall furnish and install all angle-iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device.
8. TEMPORARY CONSTRUCTION POWER AND LIGHTING
8.01 Sufficient temporary power, during construction, for heating, lighting, appliances, or motorized portable equipment shall be provided by the Electrical Contractor.
9. CODES, LAWS, PERMITS AND INSPECTIONS
9.01 Install all work in full accordance with codes, rules and regulations of municipal, city, county, state and public utility, and all other authorities having jurisdiction over the premises.
9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.
9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities.
10. FIELD CHANGES (AS BUILT DRAWINGS)
10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction.
11. LABELING AND NAMEPLATES
11.01 Permanently label transformers, switchboards, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.
11.02 Lighting and appliance panels shall be labeled as shown on drawings.
11.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by him.
11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.
11.05 Materials
A. Nameplates: Engraved three-layer laminated plastic, white letters on a black background.

- 11.06 Installation
A. Degrease and clean surfaces to receive nameplates and tape labels.
B. Install nameplates and tape labels parallel to equipment lines.
C. Secure nameplates to equipment fronts using screws, rivets or adhesive.
D. Mark every junction or pull box cover plates with the circuit number(s) of all wires contained therein.
11.07 Wire Identification:
A. Provide wire markers on each conductor at terminal strips and at final line and load connections.
B. All wires shall be color coded.
1. Three Phase System:
Phase A 120/208V Black
Phase B 277/480V Red
Phase C Blue
Neutral White
Ground Green
2. Switched Wires: Other than colors listed above
3. Travelers Between 3-Way Switches: Purple
4. Insulated Ground: Green with Yellow Stripes
12. GUARANTEE
12.01 In addition to guarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good any defects in material and workmanship occurring during this period, at his sole expense.
13. SCOPE OF WORK
13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings, specified herein or required to complete the construction of the building as shown.
13.02 The listing herein of article or material, operation or method, required to be provided and installed by the Contractor (unless noted to be supplied by others) shall be of quality or subject to qualifications as noted.
13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors employed on this project.
13.04 The electrical work shall include but is not limited to the following:
A. Demolition work as required.
B. Complete power and lighting distribution systems including panels, as shown on plans.
C. Complete branch circuit wiring system.
D. Temporary electric service as required for construction.
E. Testing of all electrical equipment.
F. Fire Alarm System as noted and/or shown.
G. Provide and install complete lighting system as shown on plans.
14. MANDATORY SHOP DRAWINGS
14.01 Submit a minimum of five (5) copies of all required electrical shop drawings.
14.02 Shop Drawings shall be submitted for:
Switchgear
All Lighting Fixtures
All Wiring Devices
Fire Alarm Devices
END OF SECTION 16010

SECTION 16100 – BASIC MATERIALS AND METHODS

- 1. CONDUIT
1.01 All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.), unless otherwise specifically stated herein.
A. Conduit below first floor slab, exposed to weather, or underground shall be rigid, threaded, galvanized, heavy wall type.
B. Corlon PVC, Type 40 heavy wall conduit with ground wire may be used underground below floor slab or pavement in lieu of rigid, threaded, galvanized conduit.
C. A ground conductor shall be supplied in all conduits and raceways.
D. PVC conduit run beneath areas subject to heavy vehicular traffic such as commercial parking areas, drive through, etc. shall be concrete encased.
E. PVC conduit used between lighting standards shall be Corlon Type 40 min. and comply with NEMA TC-2, TC-3, and UL-651 (Standard).
1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriter's Laboratories label.
1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.
1.04 E.M.T. connectors and couplers shall be rain tight type made of die cast as manufactured by Thomas & Betts, Steel City, or Appleton.
1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall be provided at each conduit, elbow and at the end of each straight run, terminating at a box or cabinet.
1.06 Horizontal and vertical conduit runs shall be supported by one-hole malleable straps or other approved metal device with suitable bolts, expansion shields or beam clamp for mounting to building structure or special brackets.
1.07 Armored cable (BX) or nonmetallic sheathed cable (Romex) shall not be used.
1.08 No aluminum conduit shall be used.

- 1.09 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make rigid connection with rigid conduit.
1.10 Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.
1.11 Conduit system shall conform to all the requirements of the National Electrical Code (N.E.C./N.F.P.A.-70) and local codes.
1.12 Metal Clad (MC) cable may be used where allowed by these drawings and conform to notes shown on sheet E0.0.
2. CONDUCTORS
2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits.
2.02 All wire and cable for branch lighting or small power circuits shall have "NEC" Type "THHN/THWN" 600-volt insulation.
2.03 Wire and cable above #8 gauge shall be stranded Type "THWN" insulated for 600-volts.
2.04 For special conditions, as provided by the National Electrical Code, Type "R.H.H., A.V.A." or other required insulation shall be used.
2.05 Where lighting fixtures are used as raceways, 90 degree C. minimum insulated wire shall be used.
3. GROUNDING
3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures.
3.02 Electrical system and equipment grounds shall comply with the N.E.C. as well as all local and state codes and regulations.
3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely grounded both mechanically and electrically in accordance with all codes.
3.04 System ground shall not exceed a maximum of ten (10) OHMS resistance.
3.05 Main grounding system is existing.
3.06 A ground conductor shall be supplied in ALL conduit.
4. TOGGLE SWITCHES AND RECEPTACLES
4.01 All general purpose switches and receptacles shall be ivory in color (except special configurations not available in ivory).
4.02 Acceptable device manufacturers are Hubbell, Arrow Hart, Leviton, or Bryant.
4.03 Wall Switches:
A. Single poles #1221, double pole #1222 and three (3) way switches #1223 shall be rated 20-ampere, 120/277 volts.
B. Switches shall be mounted 4"-0" above finished floor to centerline.
4.04 Duplex receptacles shall be 20-ampere at 125-volts, Leviton catalogue #5362 or approved equal.
4.05 Outdoor receptacles shall be weatherproof with spring covers (Leviton #4926 plates).
5. WALL PLATES
5.01 Unless otherwise noted, all plates in finished areas for wall switches, receptacles and telephone outlets shall be smooth plastic.
5.02 All plates shall have full contact with the wall and boxes.
6. OUTLETS
6.01 Locations of outlets are shown approximately on the drawings.
6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge.
6.03 Outlets on the exterior of the building shall be flush weatherproof type.
6.04 All outlets shall be firmly secured in place.
6.05 All outlet locations in floor shall be verified with Owner's Representative before pouring of concrete floor.
7. BRANCH CIRCUIT WIRING
7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.
7.02 All circuits shall be color coded.
END OF SECTION 16100

SECTION 16400 – ELECTRICAL SERVICE AND DISTRIBUTION

- 1. SECONDARY SERVICE
1.01 Electrical service shall be secondary, as shown on plans with grounded and neutral and secondary metering.
1.02 The Electrical Contractor shall be responsible for contacting the power company to secure complete details for the connection to the existing primary transformer.
1.03 Electrical Contractor shall provide secondary service cables and conduits from the transformer to main service as indicated on drawings.
1.04 Site electrical shall be coordinated with local power company by Electrical Contractor.
1.05 Provide coordination, via the General Contractor, of the Site Electrical Contractor for the final locations, penetrations, and service tie-ins associated with secondary power service entrance conduits.
2. SAFETY SWITCHES
2.01 General
A. Switch shall be general duty type with visible, quick make, quick break blades.
2.02 Enclosures
A. Steel enclosures with operating handle at side.
B. The enclosure shall be interlocked with the switch handle such that the enclosure door cannot be opened with switch in the "on" position.

- 2.03 Ratings
A. Safety switches shall be rated for the continuous current and voltage indicated on the drawings.
B. Switches used as service entrance equipment shall be U.L. listed for use as service equipment.
2.04 Poles
A. Safety switches shall have the number of poles indicated on the drawings, but not fewer than one (1) pole for each ungrounded conductor to be opened.
2.05 Fuses
A. Where indicated, safety switches shall be fused in each ungrounded leg in accordance with the requirements of the Section entitled "Fuses".
2.06 Acceptable
A. Acceptable manufacturers are General Electric, Westinghouse, Challenger, Sq. D, or Siemens.
3. DISTRIBUTION PANELBOARDS (INCLUDING POWER PANELS)
3.01 Power and distribution panels shall be suitable for voltages indicated on plans and/or riser diagrams.
3.02 Panels shall be provided with spares and full provisions for future breakers as shown.
3.03 Panels shall be manufactured as a complete unit by Siemens-ITE, Square D, General Electric Company, or Challenger, not an assembly of parts secured from a supply house.
3.04 Panelboards and switches shall be identified for "usage".
4. LIGHTING AND APPLIANCE PANELBOARDS
4.01 Lighting panels shall be dead front type, aluminum buss, with lugs only in the mains and branch circuits as indicated on the drawings.
4.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings.
4.03 Panels shall be enclosed in galvanized steel of code thickness.
5. GENERAL (FOR ALL PANELS AND PANELBOARDS)
5.01 Metal framed card holders with typewritten circuit directory must be provided for each panel.
5.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type U.L. approved lugs.
5.03 Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.
6. FUSES
6.01 This Contractor shall replace all fuses blown during construction and testing and shall provide a complete set of fuses in all fuse holders, switches, panels and all other devices requiring fuses.
6.02 Fuses in switchboard and main distribution panelboards in Electrical room shall be as indicated on plans.
A. Provide label in each switch indicating fuse type, ampere rating and interrupting rating.
B. Replace all blown fuses up to final acceptance of job.
C. Provide and place in a wall mounted metal cabinet in Electrical Room a spare set of three (3) fuses for each size and type fuse used in switchboard in Electrical Room.
6.03 Fuses shall be as specified herein and indicated on drawings.
END OF SECTION

SECTION 16500 – LIGHTING

- 1. LIGHTING FIXTURES
1.01 All fixtures shall be as shown on Fixture Schedules, and approved by owner.
1.02 Unless otherwise indicated, all lighting fixtures shall be furnished and installed by Electrical Contractor as indicated on the Lighting Fixture Schedules, including lamps.
1.03 All fixtures shall bear the Underwriter's Laboratories label and shall be installed according to manufacturer's instruction.
1.04 All fixtures, unless otherwise indicated, shall be new and undamaged.
1.05 Surface-mounted fluorescent fixtures shall be mounted 1-1/2" from ceiling.
1.06 This Contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angles, rods, etc.
1.07 This Contractor shall support all fixtures from building structural members and NQI from ceiling system.
END OF SECTION 16500



3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
Fax 727. 815. 3337



TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEHAYEB, P.E.
FL License No. 49521

Table with 4 columns: no., date, revision descriptions, no.

STARBUCKS SHELL CONSTRUCTION
WESTSIDE BLVD & US HWY 192
KISSIMMEE, FL

03.10.23 date

22062 comm. no.

ELECTRICAL SPECIFICATIONS

E4.0

CHEHAYEB & ASSOCIATES, INC. CONSULTING PROFESSIONAL ENGINEERS
3702 AZEELE ST. TAMPA, FL 33609
(813) 876-1415 www.chehayeb.com
LIC. #49521 SOUHEIL S. CHEHAYEB CERT. #7340 23-11