NOT FOR OCCUPANCY:

THESE DRAWINGS REPRESENT THE SHELL BUILDING CONSTRUCTION DOCUMENTATION AND INCLUDE ASSOCIATED LANDLORD PROVIDED ITEMS VARIOUSLY REQUIRED BY KNOWN TENANTS. NO CERTIFICATE OF OCCUPANCY IS BEING ASKED FOR. EACH TENANT IS REQUIRED TO SUBMIT SEPARATE INTERIOR CONSTRUCTION DOCUMENTS FOR REVIEW AND APPROVAL BY THE CITY FOR WHICH THEIR RESPECTIVE CERTIFICATE OF OCCUPANCIES WILL BE BASED UPON AND ISSUED. IF ANY MODIFICATIONS TO THE SHELL STRUCTURE BECOMES NECESSARY DUE TO TENANT REQUIREMENTS A REVISION TO THE SHELL DRAWINGS WILL BE DOCUMENTED AND ISSUED FOR REVIEW AND APPROVAL BY THE CITY.

PROJECT SUMMARY

THE SCOPE OF WORK PROPOSED UNDER THIS PERMIT INCLUDES THE CONSTRUCTION OF A NEW SINGLE-STORY SHELL BUILDING WITH SELECT TENANT IMPROVEMENTS. THE PROPOSED TOTAL BUILDING AREA IS 3,771 SQUARE FEET.

THE BUILDING WILL BE OF TYPE II-B CONSTRUCTION. WORK SHALL INCLUDE ALL STRUCTURAL COMPONENTS AND FINISHES THAT COMPRISE THE BUILDING ENVELOPE. INCLUDED IN THE SCOPE OF WORK WILL BE THE ELECTRICAL SERVICE AND HOUSE POWER. IN ADDITION TO THE SHELL CONSTRUCTION, SELECT WORK WILL BE PROVIDED FOR THE FUTURE TENANTS PER THE TENANT SCOPE OF WORK SCHEDULE ON THIS SHEET.

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

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	MIXED USE (GROUPS B AND M)
TABLE 508.4 OCCUPANCY SEPARATIONS	1-HOUR
CONSTRUCTION TYPE	TYPE II-B
FIRE SPRINKLERED	NO
FIRE ALARM	NO
ALLOWABLE AREA	12,500 GROSS SQUARE FT. PER FBC TABLE 506.2 (M OCCUPANCY)
PROPOSED AREA	3,771 SQ. FT.
NO. OF STORIES	2 ALLOWED / 1 PROPOSED
ALLOWABLE HEIGHT	55'-0" / PROPOSED HEIGHT 24'-0" (HIGHEST POINT)
ALLOWABLE HEIGHT (MODIFIED)	HEIGHT MODIFICATIONS ARE NOT REQUIRED
MAXIMUM TRAVEL DISTANCE	200' (NON-SPRINKLERED)
MAX. DEAD END CORRIDOR	OCCUPANCY M = 20'
MINIMUM CORRIDOR WIDTH	44" REQUIRED
MINIMUM STAIR WIDTH	N/A

TABLE 601 - FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS

PRIMARY STRUCT. FRAMEWORK	0
EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
EXTERIOR NON-BEARING WALLS	(SEE NOTES BELOW FOR TABLE FBC 602)
INTERIOR NON-BEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

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

SEC. 705.8 MAXIMUM AREA OF EXTERIOR WALL OPENING 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	#

SEC. 713 SHAFT ENCLOSURES N/A

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

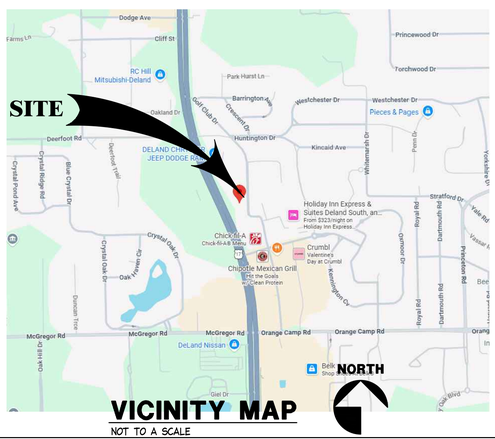
TABLE OF AREAS, OCCUPANT LOAD, EGRESS REQUIREMENTS AND PLUMBING CALCULATIONS

ROOM NAME	ROOM NUM.	OCCUPANT LOAD: AREA (GROSS)	USE	OCC. RATIO	OCC. LOAD	EGRESS: WIDTH FACT.	WIDTH REQ'D	WIDTH PROV'D	PLUMBING: W.C. RATIO (MEN)	W.C. REQ'D	W.C. PROV'D	W.C. RATIO (WOMEN)	W.C. REQ'D	W.C. PROV'D	LAV. RATIO (MEN)	LAV. REQ'D	LAV. PROV'D	LAV. RATIO (WOMEN)	LAV. REQ'D	LAV. PROV'D	D.F. RATIO	D.F. REQ'D	D.F. PROV'D	SERV. SINK REQ'D	NOTES
TENANT A	101	1,120 SQ. FT.	B	150	8	0.2"	1.6"	78"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A,B
TENANT B	102	1,326 SQ. FT.	M	60	23	0.2"	4.6"	72"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A,B
TENANT C	103	1,326 SQ. FT.	M	60	23	0.2"	4.6"	108"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A,B
	TOTAL:	3,771 SQ. FT.																							

NOTES: A. OCCUPANT LOAD FOR SHELL PURPOSES IS BASED ON KNOWN TENANT USE AND WORST CASE OCCUPANT-TO-FLOOR AREA RATIO. THE TENANT'S ARCHITECT OF RECORD SHALL SUBMIT FINAL OCCUPANT LOADS PER THE TENANT DOCUMENTS AND MAKE MODIFICATIONS TO THE NUMBER OF MEANS OF EGRESS OR EGRESS WIDTHS AT THAT TIME.
B. PLUMBING FIXTURES AND CALCULATIONS SHALL BE PROVIDED BY THE TENANT'S ARCHITECT OF RECORD AS PART OF THE TENANT'S DOCUMENTS.

TENANT REQUIREMENTS SCHEDULE

SPACE	USE: BUSINESS (B)	MERCANTILE (M)	RESTAURANT (A-2)	DEFINITION: VANILLA BOX	GREY BOX	DARK SHELL	SCOPE: SLAB: CONCRETE SLAB	FULL LEAVE-OUT	PARTIAL LEAVE-OUT	EXT. WALL: INSULATION AND GWB	EXPOSED INSUL. & STUDS	EXPOSED CMU	INT. WALL: PROVIDED - DEMISING	PROVIDED - LAYOUT	PROVIDED AT RR ONLY	RESTROOM: PROVIDED	WITH FINISHES	CEILING: LAY-IN	EXPOSED STRUCTURE	ELEC.: TENANT SPACE PANEL	CONDUIT STUB W/PULL	CEILING LIGHTS	EMERGENCY LIGHTS	MECH.: HVAC SYSTEM PROVIDED	DUCT DROPS ONLY	FULL DISTRIBUTION	CAPPED ROOF CURBS	PLUMB.: DOMESTIC WATER	SANITARY	GREASE	GAS	STUB-INS ONLY
A-101	●					●		●				●	●						●				●				●	●	●			●
B-102		●			●			●				●	●						●		●		●				●	●	●			●
C-103		●				●		●				●	●						●		●		●				●	●	●			●



VICINITY MAP
NOT TO A SCALE

FLORIDA PRODUCT DATA INDEX

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	FL APPROVAL No.	DATE
ROOFING	SINGLE-PLY ROOFING SYSTEMS (PVC)	DURO-LAST ROOFING	16039.1 - R18	12/13/2022
PANEL WALLS	ALUM. STOREFRONT (NON-IMPACT RATED)	YKK AP AMERICA	12906.2	04/13/2022
EXTERIOR DOORS	ALUM. ENTRANCES (NON-IMPACT RATED)	YKK AP AMERICA	12892.3	10/12/2021
EXTERIOR DOORS	SWINGING EXTERIOR DOOR ASSEMBLIES	CECO STEEL DOORS	45531 - R13	12/10/2020
STRUCTURAL COMPONENTS	PROD. INTRO. AS A RESULT OF NEW TECH.	CAST-CRETE USA, INC.	1581 - R15	5/17/2022
PANEL WALLS	SIDING	NICHIHA USA, INC.	42392.1	09/14/2023
PANEL WALLS	D/T PICK-UP WINDOW (IMPACT RATED)	QUICKSERV CORP.	NOA 25-040103	EXP: 03/25/2030

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 553.842 ARE IN COMPLIANCE WITH PRODUCT APPROVAL INSTALLATION REQUIREMENTS

WIND DESIGN CRITERIA

1. ULTIMATE WIND SPEED = **133 MPH** (FBC FIGURE 1609.3(1))
2. WIND EXPOSURE "C"
3. BUILDING RISK CATEGORY II (PER FBC TABLE 1604.5)
4. INTERNAL PRESSURE COEFFICIENT (GCpi) = +/- 0.18, TOTALLY ENCLOSED (PER ASCE 7-22)
5. COMPONENTS AND CLADDING - REFER TO STRUCTURAL DRAWINGS FOR WIND DESIGN CRITERIA

MULTI-TENANT RETAIL AT DELAND

2235 S. WOODLAND BLVD DELAND, FL

PROJECT TEAM

DEVELOPER
ALAKAI CAPITAL
33 E. ROBINSON ST, STE. 210
ORLANDO, FL 32801
ATTN: NICK JONES
TEL: (407) 487-4839

JURISDICTION
CITY OF DELAND
PERMITTING
120 S. FLORIDA AVE
DELAND, FL 32720
ATTN: COMMERCIAL PLAN REVIEW
TEL.: (386) 626-7007

CIVIL ENGINEER
INTERPLAN LLC
220 E. CENTRAL PARKWAY
SUITE 4000
ALTAMONTE SPRINGS, FL 32701
ATTN: CHRIS BLURTON
TEL: (407) 645-5008

ARCHITECT
FWH ARCHITECTS, INC.
3336 GRAND BOULEVARD
SUITE 201
HOLIDAY, FL 34690
ATTN: ADRIENNE BAUER
TEL: (727) 815-3336

STRUCTURAL
ACG PROFESSIONAL ENGINEERING, INC.
16912 MELISSA ANN DRIVE
LUTZ, FL 33558
ATTN: ALAN GUENTHER
TEL: (813) 963-1906

MECHANICAL/PLUMBING
STEPANEK-LEWIS AND ASSOCIATES
2257 TWELVE OAKS WAY,
SUITE 103
WESLEY CHAPEL, FL 33544
ATTN: MATTHEW LEWIS
TEL: (813) 991-1248

ELECTRICAL
CHEHAYEB & ASSOCIATES
3702 AZEELE STREET
TAMPA, FL 33609
ATTN: SOUHEIL CHEHAYEB
TEL: (813) 876-1415

DRAWING INDEX

SHT. NO.	DRAWING TITLE	REVISION LOG (● INDICATES SHEETS AFFECTED)
A0	INDEX, KEY MAP AND CODE INFORMATION	
	CIVIL	
	CIVIL AND LANDSCAPE DRAWINGS SUBMITTED UNDER SEPARATE PERMIT BY OTHERS	
	ARCHITECTURAL	
A0.1	GENERAL NOTES AND ARCHITECTURAL SPECIFICATIONS	
A0.2	ARCHITECTURAL SPECIFICATIONS	
A0.3	ARCHITECTURAL SPECIFICATIONS	
A0.4	KEYNOTE SCHEDULE	
A0.5	REQUIRED SUBMITTALS	
A5.1	ARCHITECTURAL SITE PLAN AND DETAILS	
A5.2	ARCHITECTURAL SITE DETAILS	
A1.0	FLOOR PLAN, NOTES AND LIFE SAFETY INFORMATION	
A1.1	ROOF PLAN	
A1.2	ROOF DETAILS	
A1.2A	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	
A5.0	WALL SECTIONS	
A5.1	WALL SECTIONS	
A5.2	WALL SECTIONS	
A5.3	WALL SECTIONS	
A6.0	U.L. ASSEMBLY DETAILS	
	STRUCTURAL	
S0.1	STRUCTURAL NOTES	
S1.1	FOUNDATION PLAN	
S2.1	ROOF FRAMING PLAN	
S3.1	WALL SECTIONS	
S3.2	WALL ELEVATIONS AND DETAILS	
S4.1	SECTIONS AND DETAILS	
S4.2	SECTIONS AND DETAILS	
S4.3	SECTIONS AND DETAILS	

SHT. NO.	DRAWING TITLE	REVISION LOG (● INDICATES SHEETS AFFECTED)
	MECHANICAL	
M1.0	MECHANICAL SPECIFICATIONS	
M2.0	MECHANICAL ROOF PLAN	
M3.0	MECHANICAL SCHEDULES	
M4.0	MECHANICAL DETAILS	
	PLUMBING	
P1.0	PLUMBING NOTES & SPECIFICATIONS	
P2.0	PLUMBING FLOOR PLAN	
P3.0	PLUMBING SCHEDULES RISERS AND DETAILS	
	ELECTRICAL	
E0.1	ELECTRICAL NOTES AND LEGEND	
E1.1	ELECTRICAL SITE PLAN	
E2.1	LIGHTING PLAN	
E2.2	LIGHTING DETAILS	
E3.1	POWER PLAN	
E3.2	ELECTRICAL DETAILS	
E4.1	POWER RISER DIAGRAM	
E5.1	ELECTRICAL SPECIFICATIONS	

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

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

GUY F. FABER
FL License No. AR0015323
seal

no.	date	revision descriptions

MULTITENANT RETAIL AT DELAND
2235 S. WOODLAND BLVD
DELAND, FL

04.08.2026
date
25026
comm. no.
INDEX, KEY MAP AND CODE INFORMATION

A0

4/9/2026 8:15 AM

SPECIFICATIONS

SECTION 01330 - SUBMITTALS

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. SUBMITTAL PROCEDURES PRIOR TO AND DURING CONSTRUCTION.

1.2 PROCESS AND RESPONSIBILITIES
A. CONTRACTOR RESPONSIBILITIES:
1. SUBMIT REQUIRED SUBMITTALS TO ARCHITECT UNLESS OTHERWISE SPECIFIED.
2. ELECTRONIC SUBMITTALS SHALL BE PROCESSED THROUGH EMAIL OF A WEB-BASED PROJECT MANAGEMENT PROGRAM.
3. COMPLY WITH SUBMITTAL REQUIREMENTS DEFINED WITHIN INDIVIDUAL SECTIONS. SUBMITTALS PROCEDURES DESCRIBED HEREIN SHALL APPLY UNLESS OTHERWISE STATED IN INDIVIDUAL SECTIONS.
4. PACKAGE EACH SUBMITTAL APPROPRIATELY FOR TRANSMITTAL AND HANDLING.
5. IDENTIFY PROJECT, CONTRACTOR, SUBCONTRACTOR OR SUPPLIER, PRODUCT OR ITEMS BEING SUBMITTED, PERTINENT DRAWING SHEET AND DETAIL NUMBERS, AND SPECIFICATION SECTION NUMBER, AS APPLICABLE.
6. ASSEMBLE, COORDINATE, AND REVIEW SUBMITTALS OF SUBCONTRACTORS, SUPPLIERS, AND MANUFACTURERS.
7. REVIEW SUBMITTAL FOR VERIFICATION OF PRODUCTS REQUIRED, FIELD DIMENSIONS, ADJACENT CONSTRUCTION, AND COORDINATION OF INFORMATION.
8. APPLY CONTRACTOR'S SUBMITTAL REVIEW STAMP, SIGNED OR INITIALED AND DATED, CERTIFYING COMPLIANCE WITH CONTRACT DOCUMENTS.
9. NUMBER SUBMITTALS SEQUENTIALLY USING A 3-DIGIT FORMAT BEGINNING WITH "001."
10. ELECTRONIC SUBMITTALS SHALL BE IN A SINGLE MULTI-PAGE .PDF FILE.
11. IDENTIFY EMAIL TRANSMITTAL OF SUBMITTALS IN THE SUBJECT LINE AS FOLLOWS:
a. PROJECT NAME, SUBMITTAL NAME (E.G. CONCRETE MIX DESIGN, SIEVE ANALYSIS, ETC), DATE OF SUBMITTAL
12. SCHEDULE SUBMITTALS TO EXPEDITE THE WORK. COORDINATE SUBMISSION OF RELATED ITEMS INTO SINGLE SUBMITTAL.
13. SUBMIT SUBMITTALS ITEMS REQUIRED WITHIN AN INDIVIDUAL SPECIFICATION SECTION INTO A SINGLE SUBMITTAL.
14. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND LIMITATIONS OF PRODUCT AND SYSTEM WHICH MAY BE DETRIMENTAL TO SUCCESSFUL PERFORMANCE OF THE COMPLETED WORK.
15. PROVIDE SPACE ON SUBMITTAL FOR CONTRACTOR, ARCHITECT, AND ARCHITECT'S CONSULTANTS REVIEW STAMPS.
16. ALLOW TEN (10) WORKING DAYS FOR REVIEW.
17. REVISE AND RESUBMIT SUBMITTALS WHEN REQUIRED. IDENTIFY CHANGES MADE SINCE PREVIOUS SUBMITTAL.
18. NOTIFY VENDOR OR SUBCONTRACTOR OF APPROVAL BY AUTHORITY HAVING JURISDICTION OF DEFERRED SUBMITTAL PACKAGE.
19. DISTRIBUTE COPIES OF REVIEWED SUBMITTALS TO CONCERNED PARTIES AND TO RECORD DOCUMENTS FILE. INSTRUCT PARTIES TO PROMPTLY REPORT INABILITY TO COMPLY WITH PROVISIONS.

B. ARCHITECT RESPONSIBILITIES: REVIEW SUBMITTALS AND TAKE APPROPRIATE ACTION AS FOLLOWS.
1. SHOP DRAWINGS AND PRODUCT DATA: ARCHITECT WILL MARK SUBMITTALS TO INDICATE APPROPRIATE ACTION.
2. RETURN REVIEWED SUBMITTALS TO CONTRACTOR.
3. SUBMITTALS FOR INFORMATION: ARCHITECT WILL NOT RETURN SUBMITTALS SENT FOR INFORMATION ONLY.
4. FORWARD SUBMITTALS TO PROPER SUB-CONSULTANT FOR REVIEW AS NECESSARY.

C. UN-REQUESTED SUBMITTALS: SUBMITTALS TRANSMITTED TO ARCHITECT OR ARCHITECT'S CONSULTANTS THAT ARE NOT INDICATED OR REQUESTED WILL NOT BE REVIEWED. ARCHITECT WILL DISPOSE OF UN-REQUESTED SUBMITTAL ITEMS.

1.3 TRANSMITTAL
A. TRANSMIT EACH SUBMITTAL USING A TRANSMITTAL FORM. SUBMIT TO ARCHITECT UNLESS INDICATED OTHERWISE.
B. IN ADDITION TO RECIPIENTS STATED ABOVE, TRANSMIT SUBMITTALS TO THOSE PARTIES AS MAY BE REQUIRED IN THE INDIVIDUAL SPECIFICATION SECTION.

1.4 DEFERRED SUBMITTALS
A. DEFINITION: DEFERRED SUBMITTAL ARE SUBMITTALS REQUIRED BY THE AHJ FOR CODE COMPLIANCE BUT WHICH, RATHER THAN BEING SUBMITTED AT THE TIME OF PERMIT APPLICATION, HAVE BEEN ALLOWED BY THE AHJ TO BE DEFERRED UNTIL AFTER CONTRACT AWARD TO ENABLE THE SUCCESSFUL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER TO SUBMIT THE APPLICABLE SUBMITTALS.
B. PREPARE SUBMITTALS IN ACCORDANCE WITH REQUIREMENTS STATED IN THE APPLICABLE INDIVIDUAL SPECIFICATIONS SECTIONS AND THE APPLICABLE REQUIREMENTS HEREIN
C. PROCESS:
1. IMMEDIATELY AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL CONTACT THE AHJ TO COORDINATE AND DETERMINE THE AHJ REQUIREMENTS FOR DEFERRED SUBMITTALS. INFORMATION OBTAINED SHALL INCLUDE SUCH REQUIREMENTS AS NUMBER OF COPIES; EXTENT OF DETAIL OF INFORMATION TO BE SUBMITTED; REVIEW, IF REQUIRED, BY PROFESSIONAL OF RECORD (ARCHITECT OR ENGINEER); AND OTHER NECESSARY PROCESS AND PROCEDURAL REQUIREMENTS.
2. THE CONTRACTOR, OR OTHER ENTITY, RESPONSIBLE FOR THE SUBMITTAL SHALL SUBMIT, TRACK, AND REPORT SUBMITTAL STATUS THROUGH FINAL APPROVAL AND ISSUE OF PERMIT.
3. COMMUNICATE WITH VENDORS, SUPPLIERS, AND SUBCONTRACTORS THE AHJ REQUIREMENTS FOR DEFERRED SUBMITTALS. RECEIVE, REVIEW, AND STAMP SUBMITTALS IN ACCORDANCE WITH SUBMITTAL REQUIREMENTS HEREIN.
4. TRANSMIT DEFERRED SUBMITTALS DIRECTLY TO AHJ UNLESS OTHERWISE REQUESTED BY AHJ TO OBTAIN PRIOR REVIEW AND APPROVAL BY PROFESSIONAL OF RECORD.
5. UPON APPROVAL BY AHJ, OBTAIN PERMITS AND PAY PERMIT FEES AND OTHER FEES REQUIRED BY THE AHJ.
6. ATTACH APPROVED DEFERRED SUBMITTALS TO THE APPROVED "PERMIT SET" DOCUMENTS AT THE PROJECT SITE.
7. DO NOT INSTALL DEFERRED SUBMITTALS UNTIL CORRESPONDING SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE AHJ.]

1.5 SUBMITTAL REQUIREMENTS
A. SHOP DRAWINGS
1. SUBMIT DRAWINGS WITH GRAPHIC INFORMATION AT ACCURATE SCALE. SHOW DIMENSIONS AND NOTE WHICH DIMENSIONS ARE BASED ON FIELD MEASUREMENT. IDENTIFY MATERIALS AND PRODUCTS IN WORK SHOWN. INDICATE COMPLIANCE WITH SPECIFIED STANDARDS AND SPECIAL COORDINATION REQUIREMENTS. DO NOT USE REPRODUCTIONS OF CONTRACT DRAWINGS AS SHOP DRAWINGS.
2. INCLUDE ON EACH SHOP DRAWING THE DRAWING TITLE, NUMBER, ORIGINAL ISSUE DATE, AND REVISION NUMBERS AND DATES, IN ADDITION TO OTHER REQUIRED IDENTIFYING INFORMATION.
3. IDENTIFY DETAILS BY REFERENCE TO SHEET, DETAIL, SCHEDULE, OR ROOM NAMES SHOWN ON THE CONTRACT DRAWINGS.
4. IDENTIFY NUMERICAL VALUES IN ENGLISH UNITS.
5. SIZE: NOT LESS THAN 8-1/2 BY 11 INCHES NOR MORE THAN 30 BY 42 INCHES.
6. NUMBER OF COPIES REQUIRED:
a. FOR NON-MATERIAL SUBMITTALS, SUBMIT ONE ELECTRONIC FILE IN ADOBE .PDF FORMAT WITHOUT RESTRICTIONS TO PRINT AND/OR COMMENT ELECTRONICALLY.
b. FOR MATERIAL OR COLOR SELECTIONS, SUBMIT ONE COPY FOR REVIEW. UPON APPROVAL, PROVIDE ONE EACH FOR THE CONTRACTOR'S AND ONE FOR THE OWNER'S RECORDS.

B. PRODUCT DATA
1. MANUFACTURER'S STANDARD SCHEMATIC DRAWINGS AND DIAGRAMS:
a. CLEARLY MARK TO IDENTIFY PERTINENT PRODUCTS.
b. SHOW PERFORMANCE CHARACTERISTICS AND CAPACITIES.
c. SHOW DIMENSIONS AND CLEARANCES REQUIRED.
d. SHOW WIRING OR PIPING DIAGRAMS AND CONTROLS.
e. MODIFY DRAWINGS AND DIAGRAMS TO DELETE INFORMATION NOT APPLICABLE TO THIS WORK.
f. SUPPLEMENT STANDARD DRAWINGS AND DIAGRAMS TO PROVIDE COMPLETE INFORMATION APPLICABLE TO THIS WORK.
2. MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS, AND OTHER DATA. SUPPLEMENT PRODUCT DATA WITH MATERIAL PREPARED FOR THE WORK TO SATISFY SUBMITTAL REQUIREMENTS FOR WHICH PRODUCT DATA DOES NOT EXIST. NOTE THAT THE MATERIAL IS DEVELOPED SPECIFICALLY FOR THIS CONTRACT.
3. SUBMIT PRODUCT DATA FOR EACH SECTION AS A COMPLETE, BOUND VOLUME. INCLUDE TABLE OF CONTENTS LISTING PAGE AND CATALOG ITEM NUMBERS FOR PRODUCT DATA.
4. INDICATE, BY PROMINENT CONTRASTING COLOR NOTATION ON EACH PRODUCT BEING SUBMITTED, THE SPECIFICATIONS SECTION AND PARAGRAPH NUMBERS TO WHICH IT PERTAINS.
5. WHERE PRINTED PRODUCT DATA INCLUDES INFORMATION ON SEVERAL PRODUCTS, SOME OF WHICH ARE NOT REQUIRED, MARK COPIES TO INDICATE INFORMATION APPLICABLE TO WORK AND CLEARLY CROSS OUT OTHER INFORMATION NOT APPLICABLE TO WORK. INCLUDE THE FOLLOWING INFORMATION:
a. MANUFACTURER'S PRINTED RECOMMENDATIONS OR INSTRUCTIONS.
b. COMPLIANCE WITH REFERENCED STANDARDS.
c. APPLICATION OF TESTING AGENCY LABELS AND SEALS.
d. NOTATION OF DIMENSIONS VERIFIED BY FIELD MEASUREMENT.
e. NOTATION OF COORDINATION REQUIREMENTS.
6. PRODUCT DATA FOR INFORMATION: WRITTEN INFORMATION NOT REQUIRING ACTION BY OWNER OR ARCHITECT; FOR VERIFICATION OF COMPLIANCE WITH REQUIREMENT. SUBMITTAL NOT COMPLYING WITH REQUIREMENTS WILL BE REJECTED.
7. NUMBER OF COPIES REQUIRED: FOUR.

C. ENGINEERING CALCULATIONS
1. SUBMIT CALCULATIONS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE PROJECT IS LOCATED. COMPLY WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION WITH REGARD TO SIGNING AND SEALING OF SUBMITTALS.

D. CERTIFICATIONS
1. CERTIFY MANUFACTURER'S OR INSTALLER'S QUALIFICATIONS, COMPLIANCE WITH TESTS OR SPECIFIED CRITERIA, OR OTHER FACTORS AS REQUIRED IN INDIVIDUAL SPECIFICATION SECTIONS.
2. SUBMIT SUPPORTING REFERENCE DATA, AFFIDAVITS, AND CERTIFICATIONS AS REQUIRED.

PART 2 - PRODUCTS
A. NOT USED.
PART 3 - EXECUTION
A. NOT USED.
END OF SECTION 01330

SECTION 02361 - TERMITE PROTECTION

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA AND PRODUCT CERTIFICATES SIGNED BY MANUFACTURER CERTIFYING THAT PRODUCTS USED COMPLY WITH U.S. EPA REGULATIONS FOR TERMITICIDES. INCLUDE APPLICATION INSTRUCTIONS AND A EPA-REGISTERED LABEL.
B. ENGAGE A LICENSED PROFESSIONAL PEST CONTROL OPERATOR TO APPLY TERMITE CONTROL SOLUTION.
PART 2 - PRODUCTS
2.1 TERMITICIDES
A. PROVIDE AN EPA-REGISTERED TERMITICIDE COMPLYING WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, IN A SOLUBLE OR EMULSIBLE, CONCENTRATED FORMULATION THAT DILUTES WITH WATER OR FOAMING AGENT. USE ONLY SOIL TREATMENT SOLUTIONS THAT ARE NOT HARMFUL TO PLANTS. PROVIDE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR THE MAXIMUM TERMITICIDE CONCENTRATION ALLOWED FOR EACH SPECIFIC USE, ACCORDING TO THE PRODUCT'S EPA-REGISTERED LABEL.
PART 3 - EXECUTION
3.1 INSTALLATION
A. PREPARE SURFACES AND APPLY TREATMENT AT RATES AND CONCENTRATIONS RECOMMENDED IN MANUFACTURER'S WRITTEN INSTRUCTIONS.
B. APPLY TERMITE CONTROL TO THE FOLLOWING:
1. AT FOUNDATIONS.
2. UNDER CONCRETE FLOOR SLABS ON GRADE.
3. AT HOLLOW MASONRY.
4. AT EXPANSION AND CONTROL JOINTS AND SLAB PENETRATIONS.
5. TREAT ADJACENT AREAS INCLUDING AROUND ENTRANCE PLATFORM AND EQUIPMENT BASES. APPLY OVERALL TREATMENT ONLY WHERE ATTACHED CONCRETE PLATFORM ARE ON FILL OR GROUND.
C. POST WARNING SIGNS IN AREAS OF APPLICATION.
D. REAPPLY SOIL TERMITICIDE TREATMENT SOLUTION TO AREAS DISTURBED BY SUBSEQUENT EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES FOLLOWING APPLICATION.
END OF SECTION 02361

SECTION 02751 - CONCRETE PAVEMENT

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA, DESIGN MIXES FOR CONCRETE, LABORATORY TEST REPORTS.
B. COMPLY WITH ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE."
PART 2 - PRODUCTS
2.1 MATERIALS
A. REINFORCING BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420), DEFORMED.
B. WELDED STEEL WIRE FABRIC: ASTM A 185, FLAT SHEETS NOT ROLLS.
C. AIR-ENTRAINING ADMIXTURE: ASTM C 260.
D. CHEMICAL ADMIXTURES: ASTM C 494. CALCIUM CHLORIDE SHALL NOT BE USED.
E. LIQUID MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, CLEAR, TYPE 1, CLASS B, WATERBORNE.
F. PAVEMENT-MARKING PAINT: FS TT-P-1952, LATEX, WATER-BASE EMULSION.
2.2 MIXES
A. PROPORTION NORMAL-WEIGHT CONCRETE MIXES TO PROVIDE THE FOLLOWING PROPERTIES:
1. COMPRESSIVE STRENGTH: 3000 PSI (20.7 MPA) AT 28 DAYS.
2. SLUMP LIMIT: 4 INCHES (100 MM) AT POINT OF PLACEMENT.
3. W/C RATIO: 0.45 MAXIMUM AT POINT OF PLACEMENT.
4. AIR CONTENT: 5.5 TO 7.0 PERCENT.
PART 3 - EXECUTION
3.1 PAVING
A. ACCURATELY POSITION AND SUPPORT REINFORCEMENT, AND SECURE AGAINST DISPLACEMENT.
B. LOCATE AND INSTALL CONTRACTION, CONSTRUCTION, ISOLATION, AND EXPANSION JOINTS AS INDICATED OR REQUIRED.
C. PLACE CONCRETE IN A CONTINUOUS OPERATION WITHIN PLANNED JOINTS OR SECTIONS. DO NOT ADD WATER TO ADJUST SLUMP.
D. FLOAT SURFACES TO TRUE PLANES WITHIN A TOLERANCE OF 1/4 INCH IN 10 FEET (1:480) AND MEDIUM-TO-COARSE-TEXTURED BROOM FINISH.
E. TOOL EDGES AND JOINTS TO A RADIUS OF 3/8 INCH (9.5 MM).
F. BEGIN CURING AFTER FINISHING CONCRETE. APPLY MEMBRANE-FORMING CURING COMPOUND TO CONCRETE.
G. APPLY TRAFFIC PAINT WITH MECHANICAL EQUIPMENT TO A MINIMUM WET FILM THICKNESS OF 15 MILS (0.4 MM).
H. OWNER WILL EMPLOY A TESTING AGENCY TO SAMPLE CONCRETE, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT.
1. GENERAL CONTRACTOR AND REPLACE CONCRETE PAVING THAT IS BROKEN, DAMAGED, OR DEFECTIVE. EXCLUDE TRAFFIC FROM PAVING FOR AT LEAST 14 DAYS.
END OF SECTION 02751

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SECTION 04710 - THIN BRICK MASONRY

PART 1 - GENERAL
1.1 SUMMARY
A. SCOPE OF WORK - PROVIDE THIN BRICK MASONRY VENEER, VENEER INSTALLATION MATERIALS AND ACCESSORIES AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED FOR COMPLETE AND PROPER INSTALLATION.
B. RELATED DOCUMENTS - PROVISIONS WITHIN GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS OF THE CONTRACT
1.2 SECTION INCLUDES
A. THIN BRICK MASONRY VENEER UNITS
B. INSTALLATION PRODUCTS; ADHESIVES, MORTARS, POINTING MORTARS, AND SEALANTS
C. AIR BARRIER AND WATERPROOFING MEMBRANES
D. ANTI-FRACTURE MEMBRANES
1.3 REFERENCE STANDARDS
A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C91 STANDARD SPECIFICATION FOR MASONRY CEMENT
B. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C109 STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTARS (USING 2-IN. OR 50-MM CUBE SPECIMENS)
C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C144 STANDARD SPECIFICATION FOR AGGREGATE FOR MASONRY MORTAR
D. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C150 STANDARD SPECIFICATION FOR PORTLAND CEMENT
E. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C270 STANDARD SPECIFICATION FOR MORTAR FOR UNIT MASONRY
F. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C531 STANDARD TEST METHOD FOR LINEAR SHRINKAGE AND COEFFICIENT OF THERMAL EXPANSION OF CHEMICAL-RESISTANT MORTARS, GROUTS, MONOLITHIC SURFACINGS AND POLYMER CONCRETES
G. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C847 STANDARD SPECIFICATION FOR METAL LATH
H. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C905 STANDARD TEST METHOD FOR APPARENT DENSITY OF CHEMICAL-RESISTANT MORTARS, GROUTS, AND MONOLITHIC SURFACINGS
I. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C920 STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS
J. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) E84 STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
K. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) E96 STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS
L. MASONRY VENEER MANUFACTURERS ASSOCIATION (MVMA) INSTALLATION GUIDE FOR ADHERED CONCRETE MASONRY VENEER
1.4 SYSTEM DESCRIPTION
A. THIN ADHERED MASONRY VENEER INSTALLED USING LATEX-MODIFIED PORTLAND CEMENT MORTAR.
1.5 SUBMITTALS
A. SUBMIT SHOP DRAWINGS AND MANUFACTURERS' PRODUCT DATA.
B. SUBMIT SAMPLES OF EACH TYPE/STYLE/FINISH/SIZE/COLOR OF THIN ADHERED MASONRY.
C. SUBMIT MANUFACTURERS' INSTALLATION INSTRUCTIONS.
D. SUBMIT MANUFACTURER'S QUALIFICATIONS THAT THE MATERIALS SUPPLIED CONFORM TO RELEVANT STANDARDS.
E. SUBMIT PROOF OF WARRANTY.
F. SUBMIT SAMPLE OF INSTALLATION SYSTEM DEMONSTRATING COMPATIBILITY/FUNCTIONAL RELATIONSHIPS BETWEEN ADHESIVES, MORTARS, MEMBRANES AND OTHER COMPONENTS. SUBMIT PROOF FROM VENEER MANUFACTURER OR SUPPLIER VERIFYING SUITABILITY OF VENEER FOR SPECIFIC APPLICATION AND USE; INCLUDING DIMENSIONAL STABILITY, WATER ABSORPTION, FREEZE/THAW RESISTANCE (IF APPLICABLE), RESISTANCE TO THERMAL CYCLING, AND OTHER CHARACTERISTICS THAT THE MAY PROJECT MAY REQUIRE. THESE CHARACTERISTICS MUST BE REVIEWED AND APPROVED BY THE PROJECT DESIGN PROFESSIONAL(S).
1.6 QUALITY ASSURANCE
A. ADHERED MASONRY VENEER OR THIN BRICK MANUFACTURER (SINGLE SOURCE RESPONSIBILITY): COMPANY SPECIALIZING IN MANUFACTURED MASONRY VENEER OR THIN BRICK PRODUCTS WITH THREE (3) YEARS MINIMUM EXPERIENCE. OBTAIN VENEER UNITS FROM A SINGLE SOURCE WITH RESOURCES TO PROVIDE PRODUCTS OF CONSISTENT QUALITY IN APPEARANCE AND PHYSICAL PROPERTIES.
B. INSTALLATION SYSTEM MANUFACTURER (SINGLE SOURCE RESPONSIBILITY): COMPANY SPECIALIZING IN ADHESIVES, MORTARS, MEMBRANES AND OTHER INSTALLATION MATERIALS WITH TEN (10) YEARS MINIMUM EXPERIENCE AND ISO 9001-2008 CERTIFICATION. OBTAIN INSTALLATION MATERIALS FROM SINGLE SOURCE MANUFACTURER TO INSURE CONSISTENT QUALITY AND FULL COMPATIBILITY.
C. SUBMIT LABORATORY CONFIRMATION OF ADHESIVES, MORTARS, MEMBRANES AND OTHER INSTALLATION MATERIALS:
1. IDENTIFY PROPER USAGE OF SPECIFIED MATERIALS USING POSITIVE ANALYTICAL METHOD.
2. IDENTIFY COMPATIBILITY OF SPECIFIED MATERIALS USING POSITIVE ANALYTICAL METHOD.
3. IDENTIFY PROPER COLOR MATCHING OF SPECIFIED MATERIALS USING A POSITIVE ANALYTICAL METHOD.
D. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN INSTALLATION OF ADHERED MASONRY VENEER, THIN BRICK, AND/OR PAVERS WITH FIVE (5) YEARS DOCUMENTED EXPERIENCE WITH INSTALLATIONS OF SIMILAR SCOPE, MATERIALS AND DESIGN.
1.7 MOCK-UPS
A. PROVIDE MOCK-UP OF EACH TYPE/STYLE/FINISH/SIZE/COLOR OF ADHERED MASONRY VENEER, THIN BRICK, AND PAVERS ALONG WITH RESPECTIVE INSTALLATION ADHESIVES, MORTARS, POINTING MORTARS, MEMBRANES AND OTHER INSTALLATION MATERIALS, UNDER PROVISIONS OF SECTION (01 43 00) (01 45 00).
1. CONSTRUCT AREAS DESIGNATED BY ARCHITECT.
2. DO NOT PROCEED WITH REMAINING WORK UNTIL MATERIAL, DETAILS AND WORKMANSHIP ARE APPROVED BY ARCHITECT.
3. REFINISH MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK.
4. AS APPROVED BY ARCHITECT, MOCK-UP MAY BE INCORPORATED INTO FINISHED WORK.
1.8 PRE-INSTALLATION CONFERENCE
A. PRE-INSTALLATION CONFERENCE: AT LEAST THREE WEEKS PRIOR TO COMMENCING THE WORK ATTEND A MEETING AT THE JOBSITE TO DISCUSS CONFORMANCE WITH REQUIREMENTS OF SPECIFICATION AND JOB SITE CONDITIONS. REPRESENTATIVES OF OWNER, ARCHITECT, GENERAL CONTRACTOR, SUBCONTRACTOR, ADHERED VENEER MANUFACTURER, INSTALLATION SYSTEM MANUFACTURER AND ANY OTHER PARTIES WHO ARE INVOLVED IN THE SCOPE OF THIS INSTALLATION MUST ATTEND THE MEETING.
1.9 DELIVERY, STORAGE AND HANDLING
A. ACCEPTANCE AT SITE: DELIVER AND STORE PACKAGED MATERIALS IN ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELS, INCLUDING GRADE SEAL, INTACT UNTIL TIME OF USE, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. STORE INSTALLATION SYSTEM MATERIALS IN A DRY LOCATION; HANDLE IN A MANNER TO PREVENT CHIPPING, BREAKAGE, AND CONTAMINATION.
C. PROTECT LATEX ADDITIVES, ORGANIC ADHESIVES, EPOXY ADHESIVES AND SEALANTS FROM FREEZING OR OVERHEATING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS; STORE AT ROOM TEMPERATURE WHEN POSSIBLE.
D. STORE PORTLAND CEMENT MORTARS IN A DRY LOCATION.
1.10 PROJECT/SITE CONDITIONS
A. PROVIDE VENTILATION AND PROTECTION OF ENVIRONMENT AS RECOMMENDED BY MANUFACTURER.
B. PREVENT CARBON DIOXIDE DAMAGE TO FINISHES AS WELL AS ADHESIVES, MORTARS, MEMBRANES AND OTHER INSTALLATION MATERIALS, BY VENTING TEMPORARY HEATERS TO THE EXTERIOR.
C. MAINTAIN AMBIENT TEMPERATURES NOT LESS THAN 40°F (10°C) OR MORE THAN 100°F (38°C) DURING INSTALLATION AND FOR A MINIMUM OF SEVEN (7) DAYS AFTER COMPLETION. SETTING OF PORTLAND CEMENT IS RETARDED BY LOW TEMPERATURES. PROTECT WORK FOR EXTENDED PERIOD OF TIME AND FROM DAMAGE BY OTHER TRADES. INSTALLATION WITH LATEX PORTLAND CEMENT MORTARS REQUIRES SUBSTRATE, AMBIENT AND MATERIAL TEMPERATURES AT LEAST 37°F (3°C). THERE SHOULD BE NO ICE IN SLAB. FREEZING AFTER INSTALLATION WILL NOT DAMAGE LATEX PORTLAND CEMENT MORTARS. PROTECT PORTLAND CEMENT BASED MORTARS FROM DIRECT SUNLIGHT, RADIANT HEAT, FORCED VENTILATION (HEAT & COLD) AND DRAFTS UNTIL CURED TO PREVENT PREMATURE EVAPORATION OF MOISTURE. EPOXY MORTARS REQUIRE SURFACE TEMPERATURES BETWEEN 60°F (16°C) AND 90°F (32°C) AT TIME OF INSTALLATION. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO MAINTAIN TEMPERATURE CONTROL.
1.11 SEQUENCING AND SCHEDULING
A. COORDINATE INSTALLATION OF VENEER WORK WITH RELATED WORK.
B. PROCEED WITH VENEER WORK ONLY AFTER VENTS, DRAINS, PIPING, AND OTHER PROJECTIONS THROUGH SUBSTRATE HAVE BEEN INSTALLED AND WHEN SUBSTRATE CONSTRUCTION AND FRAMING OF OPENINGS HAVE BEEN COMPLETED.
1.12 WARRANTY
A. THE CONTRACTOR WARRANTS THE WORK OF THIS SECTION TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND FREE FROM FAULTS AND DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 15 YEARS. THE MANUFACTURER OF ADHESIVES, MORTARS, POINTING MORTARS, MEMBRANES AND OTHER INSTALLATION MATERIALS SHALL PROVIDE A WRITTEN FIFTEEN (15) YEAR WARRANTY. REFERENCE LATICRETE WARRANTY DATA SHEET 230.15SPD FOR COMPLETE DETAILS AND REQUIREMENTS.
1.13 MAINTENANCE
A. SUBMIT MAINTENANCE DATA UNDER PROVISIONS OF SECTION (01 78 00) (01 93 00). INCLUDE CLEANING METHODS, CLEANING SOLUTIONS RECOMMENDED AND STAIN REMOVAL METHODS RECOMMENDED.
PART 2 - PRODUCTS
2.1 THIN BRICK MATERIALS
A. THIN BRICK: ASTM C 216, GRADE SW, TYPE FBS.
1. SIZE: MODULAR, 1/2" X 2 1/4" X 7 5/8"
2. SOLID BRICK WITH EXPOSED SURFACES FINISHED FOR ENDS OF SILLS AND CAPS.
3. SPECIAL SHAPES FOR APPLICATIONS WHERE SHAPES PRODUCED BY SAWING WOULD RESULT IN SAWED SURFACES BEING EXPOSED TO VIEW.
B. MANUFACTURER, STYLE AND COLOR
1. AS INDICATED ON DRAWINGS.
2.2 VENEER INSTALLATION MATERIALS MANUFACTURER
A. LATICRETE INTERNATIONAL, INC., 1 LATICRETE PARK NORTH, BETHANY, CT 06524-3423 USA PHONE 800-243-4788, (203) 393-0010 TECHNICALSERVICES@LATICRETE.COM, HTTP://WWW.LATICRETE.COM/MVIS; WWW.LATICRETE.COM/GREEN
1. AIR BARRIER AND WATERPROOFING MEMBRANE: LATICRETE AIR & WATER BARRIER** AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC.
2. LATEX PORTLAND CEMENT THIN BED MORTAR: LATICRETE THIN BRICK MORTAR AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC.
3. LATEX PORTLAND CEMENT POINTING MORTAR: LATICRETE MASONRY POINTING MORTAR AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC.
4. EXPANSION AND CONTROL JOINT SEALANT: LATICRETE LATASIL AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC.
2.3 INSTALLATION ACCESSORIES
A. INSTALLATION ACCESSORIES AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC., 1 LATICRETE PARK NORTH, BETHANY, CT 06524-3423 USA. PHONE 800-243-4788, WWW.LATICRETE.COM
END OF SECTION 04710

SECTION 04812 THIN BRICK VENEER

PART 1 - GENERAL
1.01 SUMMARY
A. SECTION INCLUDES: THIN BRICK VENEER
1.02 REFERENCES
A. AMERICAN CONCRETE INSTITUTE (ACI).
B. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
1. ASTM C 39, STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS.
2. ASTM C 67, STANDARD TEST METHODS FOR SAMPLING AND TESTING BRICK AND STRUCTURAL CLAY TILE.
3. ASTM C 177, STANDARD TEST METHOD FOR STEADY-STATE HEAT FLUX MEASUREMENTS AND THERMAL TRANSMISSION PROPERTIES BY MEANS OF THE GUARDED-HOT-PLATE APPARATUS.
4. ASTM C 192, STANDARD PRACTICE FOR MAKING AND CURING CONCRETE TEST SPECIMENS IN THE LABORATORY.
5. ASTM C 270, STANDARD SPECIFICATION FOR MORTAR FOR UNIT MASONRY.
6. ASTM C 482, STANDARD TEST METHOD FOR BOND STRENGTH OF CERAMIC TILE TO PORTLAND CEMENT.
7. ASTM D 226, STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING.
8. ASTM E 2556/ E 2556M STANDARD SPECIFICATION FOR VAPOR PERMEABLE FLEXIBLE SHEET WATER RESISTIVE BARRIERS INTENDED FOR MECHANICAL ATTACHMENT.
1.03 SUBMITTALS
A. SUBMIT FOLLOWING ITEMS:
B. PRODUCT DATA: THIN BRICK AND APPLICATION MATERIALS INCLUDING MORTAR COLOR CHARTS, AND WATER RESISTIVE BARRIER.
C. SAMPLES: PANEL CONTAINING FULL-SIZE SAMPLES OF SPECIFIED MANUFACTURED MASONRY SHOWING FULL RANGE OF COLORS AND TEXTURES COMPLETE WITH SPECIFIED MORTAR.
1. ACTUAL SIZE OF MASONRY SAMPLE APPROXIMATELY 12 BY 12 INCHES (300 BY 300 MM).
D. QUALITY ASSURANCE/CONTROL SUBMITTALS:
1. QUALIFICATIONS:
a. PROOF OF MANUFACTURER QUALIFICATIONS.
b. PROOF OF INSTALLER QUALIFICATIONS.
2. CERTIFICATES: ICC-ES REPORT.
3. TEST REPORTS FOR PHYSICAL PROPERTIES.
4. MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. FLORIDA PRODUCT APPROVAL NUMBER.
E. FIELD SAMPLES: PROVIDE IN A LOCATION SELECTED BY OWNER SHOWING REPRESENTATIVE SAMPLE OF INSTALLED PRODUCT INCLUDING PENETRATION AND TERMINATION DETAILS, CORNER DETAIL, AND MORTAR COLOR AND TOOLING.
1. MINIMUM SIZE: 4 BY 4 FEET.
2. APPROVED FIELD SAMPLES MAY REMAIN AS PART OF COMPLETED WORK.
1.04 DELIVERY, STORAGE, AND HANDLING
A. FOLLOW MANUFACTURER'S INSTRUCTIONS.
B. STORE MOISTURE-SENSITIVE MATERIALS IN WEATHER PROTECTED ENCLOSURES.
1.05 PROJECT/SITE CONDITIONS
A. ENVIRONMENTAL REQUIREMENTS: MAINTAIN MATERIALS AND AMBIENT TEMPERATURE IN AREA OF INSTALLATION AT MINIMUM 40 DEGREES F (4 DEGREES C) PRIOR TO, DURING, AND FOR 48 HOURS FOLLOWING INSTALLATION.
1.06 WARRANTY
A. SPECIAL WARRANTY: PROVIDE MANUFACTURER'S STANDARD LIMITED WARRANTY AGAINST DEFECTS IN MANUFACTURING FOR A PERIOD OF 50 YEARS FOLLOWING DATE OF SUBSTANTIAL COMPLETION.
1.07 MAINTENANCE
A. EXTRA MATERIALS: FURNISH EXTRA MANUFACTURED STONE MATERIAL IN A VARIETY OF SHAPES AND SIZES IN QUANTITY EQUAL TO THREE PERCENT OF THE INSTALLED STONE.
PART 2 - PRODUCTS
2.01 MANUFACTURER
A. THIN BRICK: ASTM C 216, GRADE SW, TYPE FBS.
1. SIZE: MODULAR, 1/2" X 2 1/4" X 7 5/8"
2. SOLID BRICK WITH EXPOSED SURFACES FINISHED FOR ENDS OF SILLS AND CAPS.
3. SPECIAL SHAPES FOR APPLICATIONS WHERE SHAPES PRODUCED BY SAWING WOULD RESULT IN SAWED SURFACES BEING EXPOSED TO VIEW.
B. MANUFACTURER, STYLE AND COLOR
1. AS INDICATED ON DRAWINGS.
2.02 RELATED MATERIALS
A. LATICRETE INTERNATIONAL, INC., 1 LATICRETE PARK NORTH, BETHANY, CT 06524-3423 USA PHONE 800-243-4788, (203) 393-0010 TECHNICALSERVICES@LATICRETE.COM, HTTP://WWW.LATICRETE.COM/MVIS; WWW.LATICRETE.COM/GREEN
1. AIR BARRIER AND WATERPROOFING MEMBRANE: LATICRETE AIR & WATER BARRIER AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC.
2. LATEX PORTLAND CEMENT THIN BED MORTAR: LATICRETE THIN BRICK MORTAR AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC.
A. COLOR: AS SELECTED BY ARCHTITECT
3. LATEX PORTLAND CEMENT POINTING MORTAR: LATICRETE MASONRY POINTING MORTAR AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC.
A. COLOR: AS SELECTED BY ARCHITECT
4. EXPANSION AND CONTROL JOINT SEALANT: LATICRETE LATASIL AS MANUFACTURED BY LATICRETE INTERNATIONAL, INC.
A. COLOR: AS SELECTED BY ARCHITECT
B. METAL LATH: 2.5 LB (1.4 KG/M2) GALVANIZED EXPANDED METAL LATH.
C. FASTENERS:
1. INTO METAL STUDS: MINIMUM 7/16 INCH (11.1 MM) HEAD DIAMETER, CORROSION-RESISTANT, SELF-DRILLING, SELF TAPPING, PANCAKE HEAD SCREWS OF SUFFICIENT LENGTH TO PENETRATE 3/8 INCH (10 MM) MINIMUM INTO THE STUD.
2.03 WEEP SCREED AS REQUIRED FOR INSTALLATION OVER FRAMED CONSTRUCTION.
PART 3 - EXECUTION
3.01 EXAMINATION
A. EXAMINE SUBSTRATES UPON WHICH THIN BRICK WILL BE INSTALLED.
B. COORDINATE WITH RESPONSIBLE ENTITY TO CORRECT UNSATISFACTORY CONDITIONS.
C. COMMENCEMENT OF WORK BY INSTALLER IS ACCEPTANCE OF SUBSTRATE CONDITIONS.
3.02 PREPARATION
A. PROTECTION: PREVENT WORK FROM OCCURRING ON THE OPPOSITE OF WALLS TO WHICH THIN BRICK IS APPLIED DURING AND FOR 48 HOURS FOLLOWING INSTALLATION OF THE THIN BRICK.
B. SURFACE PREPARATION: FOLLOW MANUFACTURER'S INSTRUCTIONS DESIGNATED BELOW FOR THE APPROPRIATE TYPE OF MANUFACTURED MASONRY AND SUBSTRATE.
3.03 INSTALLATION
A. INSTALL THIN BRICK PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS
B. INSTALLATION INSTRUCTIONS USING GROUTED JOINTS.
3.04 CLEANING
A. CLEAN THIN BRICK IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3.05 PROTECTION
A. PROTECT FINISHED WORK FROM RAIN DURING AND FOR 48 HOURS FOLLOWING INSTALLATION.
B. PROTECT FINISHED WORK FROM DAMAGE DURING REMAINDER OF CONSTRUCTION PERIOD.
END OF SECTION 04812

SECTION 06100 - ROUGH CARPENTRY

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: MODEL CODE EVALUATION REPORTS FOR ENGINEERED WOOD PRODUCTS, FOAM-PLASTIC SHEATHING, AND FIRE-RETARDANT-TREATED WOOD.
PART 2 - PRODUCTS
2.1 LUMBER, GENERAL
A. DRESSED LUMBER, S4S, 15 PERCENT MAXIMUM MOISTURE CONTENT FOR 2-INCH (38-MM) THICKNESS OR LESS, MARKED WITH GRADE STAMP OF INSPECTION AGENCY.
2.2 TREATED MATERIALS
A. PRESERVATIVE-TREATED MATERIALS: AWPA C2 LUMBER AND AWPA C9 PLYWOOD, LABELED BY AN INSPECTION AGENCY APPROVED BY ALSC'S BOARD OF REVIEW. AFTER TREATMENT, KILN-DRY LUMBER AND PLYWOOD TO 19 AND 15 PERCENT MOISTURE CONTENT, RESPECTIVELY. TREAT INDICATED ITEMS AND THE FOLLOWING:
1. WOOD MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
2. CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
3. WOOD FRAMING MEMBERS LESS THAN 18 INCHES (460 MM) ABOVE GRADE.
4. WOOD FLOOR PLATES INSTALLED OVER CONCRETE SLABS DIRECTLY IN CONTACT WITH EARTH.
B. FIRE-RETARDANT-TREATED MATERIALS: AWPA C20 LUMBER AND AWPA C27 PLYWOOD, INTERIOR TYPE A TREATMENT, LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
1. USE TREATED LUMBER AND PLYWOOD WITH BENDING STRENGTH, STIFFNESS, AND FASTENER-HOLDING CAPACITIES THAT ARE NOT REDUCED BELOW VALUES PUBLISHED BY MANUFACTURER OF CHEMICAL FORMULATION UNDER ELEVATED TEMPERATURE AND HUMIDITY CONDITIONS.
2.3 LUMBER
A. DIMENSION LUMBER: THE FOLLOWING GRADES PER INSPECTION AGENCY INDICATED. SELECT ONE GRADE REQUIREMENT AND ONE OR MORE SPECIES GROUP IN SUBPARAGRAPHS BELOW FOR EACH APPLICATION DEPENDING ON AVAILABILITY AND SUITABILITY FOR PROJECT. DESIGNATE LOAD-BEARING WALLS ON DRAWINGS.
1. NON-LOAD-BEARING INTERIOR PARTITIONS: CONSTRUCTION, STUD, OR NO. 3.
2. FRAMING OTHER THAN NON-LOAD-BEARING PARTITIONS: CONSTRUCTION, STUD, OR NO.
B. CONCEALED BOARDS: 19 PERCENT MAXIMUM MOISTURE CONTENT: EASTERN SOFTWOODS: NO. 3 COMMON PER NELMA RULES.
C. MISCELLANEOUS LUMBER: NO. 3 OR STANDARD GRADE OF ANY SPECIES FOR NAILERS, BLOCKING, AND SIMILAR MEMBERS.
2.4 ENGINEERED WOOD PRODUCTS
A. ENGINEERED WOOD PRODUCTS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND WITH ALLOWABLE DESIGN STRESSES, AS PUBLISHED BY MANUFACTURER, THAT MEET OR EXCEED THOSE INDICATED. MANUFACTURER'S PUBLISHED VALUES SHALL BE DEMONSTRATED BY COMPREHENSIVE TESTING.
B. LAMINATED-VENEER LUMBER: LAMINATED WITH AN EXTERIOR-TYPE ADHESIVE COMPLYING WITH ASTM D 2559, WITH GRAIN OF VENEERS PARALLEL TO THEIR LENGTHS.
1. EXTREME FIBER STRESS IN BENDING: 2500 PSI (17 MPA) FOR 12-INCH NOMINAL- (286-MM ACTUAL-) DEPTH MEMBERS.
2. MODULUS OF ELASTICITY: 2,000,000 PSI (13 800 MPA). STRUCTURAL PROPERTIES FOR PRODUCT ABOVE AND BELOW ARE BASED ON PRODUCTS OF ONE MANUFACTURER. VERIFY ADEQUACY AND LOCAL AVAILABILITY BEFORE RETAINING. REVISE AS NEEDED.
C. PARALLEL-STRAND LUMBER: LAID UP FROM WOOD STRANDS WITH EXTERIOR-TYPE ADHESIVE COMPLYING WITH ASTM D 2559,WITH GRAIN OF STRANDS PARALLEL TO THEIR LENGTHS.
1. EXTREME FIBER STRESS IN BENDING: 2900 PSI (20 MPA) FOR 12-INCH NOMINAL - (286-MM ACTUAL-) DEPTH MEMBERS.
2. MODULUS OF ELASTICITY: 2,000,000 PSI (13 800 MPA).
2.5 PANEL PRODUCTS
A. WOOD-BASED STRUCTURAL-USE PANELS: DOC PS 2. PROVIDE PLYWOOD COMPLYING WITH DOC PS 1, WHERE PLYWOOD IS INDICATED.
1. FACTORY MARK PANELS EVIDENCING COMPLIANCE WITH GRADE REQUIREMENTS.
2. PROVIDE PANELS WITH SPAN RATINGS REQUIRED BY SUPPORT SPACING INDICATED.
3. WALL SHEATHING: APA-RATED STRUCTURAL 1 SHEATHING, EXPOSURE 1.
4. ROOF SHEATHING: APA-RATED STRUCTURAL 1 SHEATHING, EXTERIOR.
2.6 MISCELLANEOUS PRODUCTS
A. AIR-INFILTRATION BARRIER: ASTM D 226, TYPE 1, NO. 15 ASPHALT FELT, UNPERFORATED OR POLYOLEFIN MATERIAL COMPLYING WITH ASTM E 1677, TYPE 1, W/ MINIMUM WATER-VAPOR TRANSMISSION OF 10 PERMS (575 NG/PA X S X SQ. M).
B. FASTENERS: SIZE AND TYPE INDICATED. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH A HOT-DIP ZINC COATING PER ASTM A 153 OR OF TYPE 304 STAINLESS STEEL.
1. POWER-DRIVEN FASTENERS: CABO NER-272.
2. BOLTS: STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A (ASTM F 568, PROPERTY CLASS 4.6); WITH ASTM A 563 (ASTM A 563M) HEX NUTS AND, WHERE INDICATED, FLAT WASHERS.
C. METAL FRAMING ANCHORS: HOT-DIP GALVANIZED STEEL OF STRUCTURAL CAPACITY, TYPE, AND SIZE INDICATED.
D. SILL-SEALER: GLASS-FIBER INSULATION, 1-INCH (25-MM) THICK, COMPRESSIBLE TO 1/32 INCH (0.8 MM).
E. ADHESIVES FOR FIELD GLUING PANELS TO FRAMING: APA AFG-01.
PART 3 - EXECUTION
3.1 INSTALLATION
A. FIT ROUGH CARPENTRY TO OTHER CONSTRUCTION; SCRIBE AND COPE FOR ACCURATE FIT. CORRELATE LOCATION OF FURRING, BLOCKING, AND SIMILAR SUPPORTS TO ALLOW ATTACHMENT OF OTHER CONSTRUCTION.
B. SECURELY ATTACH ROUGH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND FASTENING AS INDICATED, COMPLYING WITH THE FOLLOWING:
1. CABO NER-272 FOR POWER-DRIVEN STAPLES, P-NAILS, AND ALLIED FASTENERS.
2. PUBLISHED REQUIREMENTS OF METAL FRAMING ANCHOR MANUFACTURER.
END OF SECTION 06100

SECTION 07110 - DAMPROOFING

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. AT LOCATIONS BETWEEN BRICK VENEER OR MANUFACTURED STONE AND CMU CONSTRUCTION, THE FACE OF THE CMU SHALL BE PROVIDED WITH DAMPROOFING APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DAMPROOFING SHALL CONSIST OF A WATER EMULSION OF ASPHALT FORMULATED FOR SPRAYING OR BRUSHING, AND USE FOR ON GREEN OR SLIGHTLY DAMPENED WALLS. ACCEPTABLE PRODUCTS ARE:
1. KARNAK CHEMICAL CORP., KARNAK 100 AF NON-FIBERED EMULSION DAMPROOFING
2. BASF BUILDING SYSTEMS, HYDROCIDE 700B
3. TEXMASTIC INTERNATIONAL, INC., TEXMASTIC SPRAY MASTIC #712-B
4. GRACE CONSTRUCTION PRODUCTS, GRACE PROCOR 75
END OF SECTION 07110

SECTION 07210 - BUILDING INSULATION

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA FOR EACH TYPE OF INSULATION PRODUCT SPECIFIED. MODIFY RATINGS IN PARAGRAPH BELOW TO SUIT AUTHORITIES HAVING JURISDICTION, INSULATION MATERIAL SELECTED, OR IF INSULATION MATERIALS WILL REMAIN EXPOSED.
B. SURFACE-BURNING CHARACTERISTICS: ASTM E 84, FLAME-SPREAD RATINGS OF 75 OR LESS AND SMOKE-DEVELOPED RATINGS OF 450 OR LESS.
PART 2 - PRODUCTS
2.1 INSULATION PRODUCTS
A. EXTRUDED-POLYSTYRENE BOARD INSULATION: ASTM C 578, TYPE [IV] [V] [VI] [VII] [X].
B. MOLDED-POLYSTYRENE BOARD INSULATION: ASTM C 578, TYPE [I] [II] [VIII].
C. POLYISOCYANURATE BOARD INSULATION: ASTM C 1289, TYPE I, CLASS 1 OR 2, FACED ON BOTH SIDES WITH ALUMINUM FOIL.
D. FLEXIBLE GLASS-FIBER-BOARD INSULATION: ASTM C 612, TYPE IA OR ASTM C 553, TYPES I, II, AND III; FOIL-SCRIM-KRAFT FACED; NOMINAL DENSITY OF 1.5 LB/CU. FT. (24 KG/CU. M).
E. GLASS-FIBER-BOARD INSULATION: ASTM C 612, TYPE IA OR TYPE IA AND IB; FOIL-SCRIM-KRAFT OR FOIL-SCRIM-POLYETHYLENE FACED; NOMINAL DENSITY OF 3 LB/CU. FT. (48 KG/CU. M).
F. MINERAL-FIBER-BLANKET INSULATION: ASTM C 665, TYPE III, CLASS A, FOIL-SCRIM-KRAFT, FOIL-SCRIM, OR FOIL-SCRIM-POLYETHYLENE VAPOR-RETARDER MEMBRANE ON ONE FACE WITH FIBERS MANUFACTURED FROM GLASS.
2.2 ACCESSORIES
A. VAPOR RETARDER: REINFORCED POLYETHYLENE OR FIRE-RETARDANT, REINFORCED POLYETHYLENE, MIN. 6 MILL THICK.
B. EAVE VENTILATION TROUGHS: PREFORMED, RIGID FIBERBOARD OR PLASTIC SHEETS DESIGNED TO FIT BETWEEN ROOF FRAMING MEMBERS AND TO PROVIDE CROSS-VENTILATION BETWEEN ATTIC SPACES AND VENTED EAVES.
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALL INSULATION IN AREAS AND IN THICKNESSES INDICATED OR REQUIRED TO PRODUCE R-VALUES INDICATED. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS WITH INSULATION.
B. EXTEND VAPOR RETARDER TO EXTREMITIES OF AREAS TO BE PROTECTED FROM VAPOR TRANSMISSION. SECURE IN PLACE WITH ADHESIVES OR OTHER ANCHORAGE.
END OF SECTION 07210

SECTION 07241 - EXT. INSULATION AND FIN. SYS.- CLASS PB

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. COMPLY WITH EIFS INDUSTRY MEMBERS ASSOCIATION'S (EIMA) "GUIDELINE SPECIFICATION FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) CLASS PB" WITH IMPACT CLASSIFICATION AND RANGE PER EIMA 101.86 OF STANDARD IMPACT RESISTANCE: 25-49 INCH-LB (2.8-5.6 J).
B. STRUCTURAL PERFORMANCE: ENGINEER, FABRICATE, AND INSTALL PREFABRICATED PANELS TO WITHSTAND THE EFFECTS OF NORMAL THERMAL MOVEMENT, GRAVITY LOADS, INWARD- OR OUTWARD-ACTING UNIFORM WIND VELOCITY PRESSURES, AND DEFLECTION OF LESS THAN L/240 OF SPAN OF FRAMING MEMBERS.
C. SUBMITTALS: PRODUCT DATA AND SAMPLES OF FINISHES.
D. INSTALLER QUALIFICATIONS: CERTIFIED IN WRITING BY SYSTEM MANUFACTURER.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. DRYVIT OR EQUAL (SUBMIT FOR APPROVAL), AND FINISH TO BE SELECTED BY ARCHITECT.
2.2 MATERIALS
A. EXTERIOR CEMENT BOARD: 1/2-INCH- (12.7-MM-) THICK, FIBER CEMENT BOARD COMPLYING WITH ASTM C 1186, TYPE A, RECOMMENDED BY BOARD MANUFACTURER FOR EXTERIOR APPLICATIONS.
B. ASPHALT-SATURATED ORGANIC FELT: ASTM D 226, TYPE I (NO. 15 ASPHALT FELT), UNPERFORATED.
C. MOLDED-POLYSTYRENE BOARD INSULATION: ASTM C 578, TYPE I, COMPLYING WITH EIMA'S "GUIDELINE SPECIFICATION FOR EXPANDED POLYSTYRENE (EPS) INSULATION BOARD."
D. EXTERIOR SHEATHING: 5/8" DENS GLASS SHEATHING BY GEORGIA PACIFIC
E. REINFORCING MESH: BALANCED, ALKALI-RESISTANT, OPEN-WEAVE GLASS-FIBER MESH TREATED FOR COMPATIBILITY WITH OTHER SYSTEM MATERIALS, COMPLYING WITH ASTM D 578, AND WITH MINIMUM WEIGHT NOT LESS THAN 9.5 OZ./SQ. YD. (322 G/SQ. M).
PART 3 - EXECUTION
3.1 INSTALLATION
A. COMPLY WITH ASTM PS 49 AND SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION OF SYSTEM AS APPLICABLE TO EACH TYPE OF SUBSTRATE INDICATED.
1. INSTALL BASE COAT IN 2 APPLICATIONS, WITH A MINIMUM TOTAL THICKNESS AT LEAST 3/32 INCH (2.4 MM), AND COMPLETELY COVERING REINFORCING MESH.
2. PROVIDE TOTAL THICKNESS OF BASE AND FINISH COATS AT LEAST 1/8 INCH (3.2 MM).
B. PREPARE JOINTS AND APPLY SEALANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF DIVISION 7 SECTION "JOINT SEALANTS" AND WITH EIMA'S "GUIDE FOR USED SEALANTS WITH EXTERIOR INSULATION AND FINISH SYSTEMS CLASS PB."
END OF SECTION 07241

SECTION 07242 - ROOF INSULATION

SEE SECTION 07500

SECTION 07271 SELF-ADHERING WATER RESTIVE BARRIER

PART 1 - GENERAL
1.01 GENERAL REQUIREMENTS
A. THIS SPECIFICATION SHALL BE READ AS A WHOLE BY ALL PARTIES CONCERNED. EACH SECTION MAY CONTAIN MORE OR LESS THE COMPLETE WORK OF ANY TRADE. THE CONTRACTOR IS SOLELY RESPONSIBLE TO MAKE CLEAR TO THE SUBCONTRACTORS THE EXTENT OF THEIR WORK AND COORDINATE OVERLAPPING WORK.
1.02 SYSTEM DESCRIPTION
A. SUPPLY LABOR, MATERIALS AND EQUIPMENT FOR A FULLY ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER MEMBRANE SYSTEM.
B. COMPLETE WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN TO BRIDGE GAPS AND SEAL THE WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER MEMBRANE AGAINST AIR LEAKAGE AND WATER INTRUSION, INCLUDING:
1. CONNECTIONS OF THE WALLS TO THE ROOF MEMBRANE
2. CONNECTIONS OF THE WALLS TO THE FOUNDATIONS
3. SEISMIC AND EXPANSION JOINTS
4. OPENINGS AND PENETRATIONS OF WINDOW AND DOOR FRAMES, STORE FRONT, CURTAIN WALL
5. PIPING, CONDUIT, DUCT AND SIMILAR PENETRATIONS
6. MASONRY TIES, SCREWS, BOLTS AND SIMILAR PENETRATIONS
7. ALL OTHER AIR LEAKAGE PATHWAYS IN THE BUILDING ENVELOPE
C. INSTALL PRIMARY WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER, FLASHING, AND VENTILATION STRIP ACCESSORIES.
1.03 RELATED PRODUCTS MAY INCLUDE:
A. MASONRY VENEER
B. GYPSUM SHEATHING
C. PLYWOOD SHEATHING
D. INSULATION
E. ROOFING
F. WALL PANELS
G. FLASHING
H. SEALANTS
I. DOOR FRAMES
J. WINDOW FRAMES
1.04 REFERENCE STANDARDS
A. ASTM INTERNATIONAL (ASTM):
1. ASTM D 5034 - TEST METHOD FOR BREAKING STRENGTH AND ELONGATION OF TEXTILE FABRICS (GRAB TEST).
2. ASTM E 96/E 96M - TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS.
3. ASTM E398 STANDARD TEST METHOD FOR WATER VAPOR TRANSMISSION RATE OF SHEET MATERIALS USING DYNAMIC RELATIVE HUMIDITY MEASUREMENT.
4. ASTM E 2178 - STANDARD TEST METHOD FOR AIR PERMEANCE OF BUILDING MATERIALS.
5. ASTM E 2357 - STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE OF AIR BARRIER ASSEMBLIES.
6. ASTM E 283 - STANDARD TEST METHOD FOR DETERMINING RATE OF AIR LEAKAGE THROUGH EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS UNDER SPECIFIED PRESSURE DIFFERENCES ACROSS THE SPECIMEN.
7. ASTM E 84 - TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.
B. AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC): ATCC 127 - TEST METHOD FOR WATER RESISTANCE: HYDROSTATIC PRESSURE TEST.
C. INTERNATIONAL CODE COUNCIL EVALUATION SERVICE, INC. (ICC-ES): ICC-ES AC38 - ACCEPTANCE CRITERIA FOR WATER-RESISTIVE BARRIERS.
1.05 SUBMITTALS
A. SUBMIT MANUFACTURERS' CURRENT PRODUCT DATA SHEETS, DETAILS AND INSTALLATION INSTRUCTIONS FOR THE WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER MEMBRANE COMPONENTS AND ACCESSORIES.
B. SUBMIT SAMPLES OF THE FOLLOWING:
1. MANUFACTURER'S SAMPLE WARRANTY
2. WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER SHEET, MINIMUM 8 BY 10 INCHES (203 BY 254 MM)
3. COMPONENTS, MINIMUM 12 INCH (305 MM) LENGTHS
4. MEMBRANE FLASHINGS
5. FASTENERS, CLIPS, STRAPPING, CLADDING ATTACHMENT FASTENERS AND MASONRY TIES
6. SEALANTS
1.06 QUALITY ASSURANCE
A. SINGLE SOURCE: SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER MEMBRANE COMPONENTS AND ACCESSORIES MUST BE OBTAINED AS A SINGLE-SOURCE MEMBRANE SYSTEM TO ENSURE TOTAL SYSTEM COMPATIBILITY AND INTEGRITY.
B. MANUFACTURER QUALIFICATIONS
1. MANUFACTURER OF SPECIFIED PRODUCTS LISTED IN THIS SECTION TO HAVE MINIMUM 10 YEARS OF CONTINUED EXPERIENCE IN THE MANUFACTURE AND SUPPLY OF HIGHLY VAPOR PERMEABLE WATER RESISTIVE AIR BARRIER PRODUCTS SUCCESSFULLY INSTALLED IN SIMILAR PROJECT APPLICATIONS.
2. MANUFACTURER OF SPECIFIED PRODUCTS LISTED IN THIS SECTION TO HAVE EXPERIENCED IN-HOUSE TECHNICAL AND FIELD OBSERVATION PERSONAL QUALIFIED TO PROVIDE EXPERT TECHNICAL SUPPORT.
C. FIRE PERFORMANCE CHARACTERISTICS: PROVIDE WATER-RESISTIVE BARRIER MEETING THE FOLLOWING FIRE-TEST CHARACTERISTICS.
1. SURFACE-BURNING CHARACTERISTICS: ASTM E 84
2. FLAME SPREAD INDEX: 5 OR LESS
3. SMOKE DEVELOPED INDEX: 15 OR LESS
1.07 DELIVERY, STORAGE AND HANDLING
A. REFER TO CURRENT PRODUCT INSTALLATION INSTRUCTIONS AND SDS AT WWW.VAPROSHIELD.COM FOR PROPER STORAGE AND HANDLING.
1.08 COORDINATION
A. ENSURE CONTINUITY OF THE FULLY SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER SYSTEM THROUGHOUT THE SCOPE OF THIS SECTION.
1. AIR BARRIER VAPOR PERMEABLE MEMBRANE TO INCLUDE SELF-ADHERED AIR BARRIER, TRANSITION MEMBRANES AND SEALANTS AT PENETRATIONS.
2. DRAINAGE PLANE TO INCLUDE DRAINAGE CAVITY, WATER RESISTIVE BARRIER AND FLASHINGS TO THE EXTERIOR.
1.09 WARRANTY
A. PROVIDE MANUFACTURER'S STANDARD MATERIAL WARRANTY IN WHICH MANUFACTURER AGREES TO PROVIDE REPLACEMENT MATERIAL FOR THE FULLY SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER SHEETS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS THAT FAIL DUE TO MATERIAL DEFECTS WITHIN 20 YEARS OF THE DATE OF PURCHASE.
PART 2 - PRODUCTS
2.01 MATERIALS
A. PRIMARY FULLY SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER MEMBRANE COMPONENTS AND ACCESSORIES MUST BE OBTAINED FROM A SINGLE-SOURCE MANUFACTURE TO ENSURE TOTAL SYSTEM COMPATIBILITY AND INTEGRITY.
1. SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER MEMBRANE BY VAPROSHIELD LLC., GIG HARBOR, WA, PHONE: (866) 731-7663, WEBSITE: WWW.VAPROSHIELD.COM.
B. WATER-RESISTIVE VAPOR PERMEABLE SELF-ADHERED AIR BARRIER MATERIALS (BASIS OF DESIGN)
1. PRIMARY FULLY SELF-ADHERED AIR BARRIER SHEET MEMBRANE SHALL BE WRAPSHIELD SA©. SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER SHEET BY VAPROSHIELD, A ZERO VOC FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER SHEET MEMBRANE CONSISTING OF MULTIPLE LAYERS OF SPUN-BONDED POLYPROPYLENE TESTED IN ACCORDANCE WITH ICC-ES AC 38 CRITERIA TO MEET IBC AND IRC REQUIREMENTS FOR WEATHER RESISTIVE BARRIERS HAVING THE FOLLOWING PROPERTIES:
a. COLOR: ORANGE WITH ALLOWABLE UV EXPOSURE FOR 180 DAYS, PRIOR TO COVERAGE.
b. BREAKING STRENGTH AND ELONGATION TO ASTM D 5034: 88 LBF (391 N), MACHINE DIRECTION; 83 LBF (369 N), CROSS-MACHINE DIRECTION.
c. WATER VAPOR PERMEANCE TESTED TO ASTM E 96 METHOD B: MINIMUM OF 50 PERMS (2861 NG/PA.S.M2)
d. WATER VAPOR PERMEANCE TESTED TO ASTM E398: MINIMUM OF 50 PERMS (2861 NG/PA.S.M2)
e. AIR LEAKAGE: ≤0.00002 CFM/FT2 @ 1.57 PSF (≤0.0001 L/S M2 @ 75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E 2178 AND <0.01 CFM/FT2 @ 1.57 PSF (<0.01 L/S M2 @ 75 PA)) WHEN TESTED IN ACCORDANCE WITH ASTM E 2357 AND. MEETS AIR BARRIER ASSOCIATION OF AMERICA (ABAA) REQUIREMENTS FOR ©ADHESIVE BACKED COMMERCIAL BUILDING WRAPS".
f. WATER RESISTANCE TESTED TO AATCC 127, 550 MM HYDROSTATIC HEAD FOR 5 HOURS: NO LEAKAGE
g. APPLICATION TEMPERATURE: AMBIENT TEMPERATURE MUST BE ABOVE 20 °F (MINUS 6.7 °C)
h. SURFACE BURNING CHARACTERISTICS TESTED TO ASTM E 84: CLASS A, FLAME-SPREAD INDEX OF LESS THAN 5, SMOKE-DEVELOPED INDEX OF LESS THAN 15
i. PHYSICAL DIMENSIONS: 0.022 INCHES (0.56 MM) THICK AND 59 INCHES (1.5 M) WIDE AND 7.58 OZ/YD2 (257 G/M2).
C. WATER-RESISTIVE VAPOR PERMEABLE TRANSITION AND FLASHING MEMBRANE
1. SELF-ADHERED AIR BARRIER TRANSITION AND FLASHING MEMBRANE FOR ALL WINDOW JAMBS, HEADERS, DOOR OPENINGS, INSIDE AND OUTSIDE CORNERS, AND OTHER TRANSITIONS SHALL BE PRE-CUT VAPROFLASHING SA® BY VAPROSHIELD, A ZERO VOC FULLY SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE SHEET MEMBRANE HAVING THE FOLLOWING PROPERTIES:
a. VAPROFLASHING SA® ORANGE: 6 ½ INCHES (17.8 CM), 11 3/4 INCHES (30 CM) OR 19 2/3 INCHES (50 CM) WIDE X 164 FEET (50 M) LONG
b. AIR LEAKAGE: ≤0.00002 CFM/FT2 @ 1.57 PSF (≤0.0001 L/S M2 @ 75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E 2178 AND <0.01 CFM/FT2 @ 1.57 PSF (<0.01 L/S M2 @ 75 PA)) WHEN TESTED IN ACCORDANCE WITH ASTM E 2357
WATER VAPOR PERMEANCE TESTED TO ASTM E 96 METHOD B: MINIMUM 50 PERMS (2861 NG/PA.S.M2)
WATER VAPOR PERMEANCE TESTED TO ASTM E398: MINIMUM OF 50 PERMS (2861 NG/PA.S.M2)
WATER RESISTANCE TESTED TO AATCC 127, 550 MM HYDROSTATIC HEAD FOR 5 HOURS: NO LEAKAGE
D. VAPROLIQUI-FLASH® VAPOR PERMEABLE WATER RESISTIVE FLASHING FOR ROUGH OPENINGS PART II OF II FLASHING SYSTEM
1. WINDOW AND DOOR PRE-CUT VAPROFLASHING SA® SHALL INCLUDE VAPROLIQUI-FLASH BY VAPROSHIELD, A LIQUID-APPLIED VAPOR PERMEABLE AIR BARRIER FLASHING MATERIAL WITH VAPOR PERMEANCE AND RESISTANCE TO AIR LEAKAGE PROPERTIES COMPATIBLE WITH THE PRIMARY AIR BARRIER MEMBRANE.
E. THROUGH WALL FLASHING
1. THRU-WALL FLASHING SHALL INCLUDE VAPRO-SS FLASHING® BY VAPROSHIELD, A FLEXIBLE 2 MIL (0.05 MM) STAINLESS STEEL SHEET WITH AN 8 MIL (0.20 MM) BUTYL ADHESIVE BACKING AND MAY INCLUDE A VAPROTERMINATION BAR® WHEN THE TOP SECTION OF THE VAPRO-SS FLASHING® IS EXPOSED.
a. VAPRO-SS FLASHING®: 4, 6, 9, 12, 18 OR 24 INCHES (10.2, 15.2, 22.9, 30.5, 45.7, 61 CM) X 50 FEET (15.24 M) LONG.
b. TENSILE STRENGTH/PUNCTURE: 100,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D882 AND 2,500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM E154
c. VAPROTERMINATION BAR®: 1 INCH (25 MM) WIDE X 8 FEET (2.4 M) LONG, UV-RESISTANCE RIGID THERMOPLASTIC EXTRUSION, IF REQUIRED BY SEQUENCE OF INSTALLATION.
F. WATER-RESISTIVE WEATHER BARRIER BATTEN, SHIM OR MAT ACCESSORIES OPTIONS
1. WATER-RESISTIVE WEATHER BARRIER BATTEN AND VENTILATION ACCESSORIES BY VAPROSHIELD SHALL BE MADE OF BLACK PVC MATERIAL.
a. VAPROBATTENTM BLACK VINYL EXTRUSION WITH PRE-FORMED MOISTURE DRAINAGE CHANNELS CONFIGURED TO CREATE A VENTILATED AIRSPACE BETWEEN WALL CLADDING AND WEATHER-RESISTIVE BARRIER, BULL NOSE EDGES PREVENT MEMBRANE TEARING. FASTENERS ARE INSTALLED DIRECTLY THROUGH VAPROBATTEN INTO THE STRUCTURAL ELEMENTS REGARDLESS OF WEATHER CONDITIONS.
b. VAPROVENT® STRIPS ARE AVAILABLE IN TWO TYPES: VAPROVENT L STRIP AND VAPROVENT HOOK STRIP.
i. VAPROVENT® GRAY VINYL L STRIPS ARE ATTACHED TO THE TOP AND BOTTOM OF VAPROBATTENS. THEY PREVENT INSECT INVASION AND PROVIDE MAXIMUM VENTILATION.
ii. VAPROVENT® GRAY VINYL HOOK STRIPS ARE USED WITH VAPROBATTENS AS A STARTER STRIP FOR VINYL AND BEVELED SIDING APPLICATIONS, IN PLACE OF THE VAPROVENT L STRIP AT THE BOTTOM OF THE ASSEMBLY.
c. VAPROSHIM SA® SELF-ADHERED, NEOPRENE/EPDM ACCESSORY USED UNDER HORIZONTAL OR VERTICAL CLADDING ATTACHMENT COMPONENTS TO CREATE A VERTICAL RAIN SCREEN DRAINAGE PLANE FOR CLADDING, WHILE SEALING FASTENER PENETRATIONS.
d. VAPROMAT® LIGHTWEIGHT, HYDROPHOBIC FILTER FABRIC WITH A 3 MM OR 7 MM POLYPROPYLENE DRAINAGE MATRIX ATTACHED, DESIGNED TO KEEP THE DRAINAGE CAVITY CLEAN AND UNOBSTRUCTED DURING THE LATH AND PLASTER OR ADHESIVE MORTAR INSTALLATION, PROMOTING RAPID DRAINING AND DRYING OF THE RAIN SCREEN CAVITY.
2.02 PENETRATION SEALANT
A. PROVIDE SEALANT FOR PENETRATIONS AS RECOMMENDED BY MANUFACTURER OR AS SPECIFIED UNDER DIVISION 07 SECTION: SEALANTS. APPROPRIATE SEALANTS SHALL BE VAPROBOND® OR VAPROLIQUI-FLASH®.
PART 3 EXECUTION
3.01 GENERAL
A. VERIFY THAT SURFACES AND CONDITIONS ARE READY TO ACCEPT THE WORK OF THIS SECTION. NOTIFY [ENGINEER] [ARCHITECT] [CONSULTANT] IN WRITING OF ANY DISCREPANCIES. COMMENCEMENT OF THE WORK OR ANY PARTS THEREOF SHALL MEAN ACCEPTANCE OF THE PREPARED SUBSTRATES.
B. ALL SURFACES MUST BE DRY, SOUND, CLEAN, FREE OF OIL, GREASE, DIRT, EXCESS MORTAR OR OTHER CONTAMINANTS DETRIMENTAL TO THE ADHESION OF THE WATER RESISTIVE AIR BARRIER MEMBRANE AND FLASHINGS. FILL VOIDS AND GAPS IN SUBSTRATE GREATER THAN 7/8 INCH IN WIDTH TO PROVIDE AN EVEN SURFACE. STRIKE MASONRY JOINTS FULL-FLUSH.
C. MINIMUM APPLICATION TEMPERATURE OF FULLY SELF-ADHERED MEMBRANE AND FLASHINGS TO BE ABOVE 20 °F (MINUS 6.0 °C).
D. ENSURE ALL PREPARATORY WORK IS COMPLETE PRIOR TO APPLYING PRIMARY FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER SHEET MEMBRANE.
E. MECHANICAL FASTENERS USED TO SECURE SHEATHING SURFACES OR PENETRATE SHEATHING SURFACES SHALL BE SET FLUSH WITH SHEATHING, FASTENED INTO SOLID BACKING AND COVERED WITH THE UPPER OVERLAPPING MEMBRANE. IF EXPOSED FASTENERS ARE PRESENT ON THE SURFACE OF THE MEMBRANE, COVER AND SEAL WITH VAPRO-LIQUIFLASH OR VAPROBOND®.
F. IF EXPOSED FASTENERS ARE REQUIRED, USE VAPROCAPS TO INSURE WATER/AIR TIGHT SEAL.
3.02 COORDINATION OF SELF-ADHERED VAPOR PERMEABLE AIR BARRIER MEMBRANE INSTALLATION
A. DOWNLOAD INSTALLATION INSTRUCTIONS AT HTTP://VAPROSHIELD.COM/PUBLIC-DOCUMENTS/INSTALLATION-INSTRUCTIONS.
B. INSTALLATION SUMMARY:
a. SELF-ADHERED VAPOR PERMEABLE AIR BARRIER SHEETS MAY BE INSTALLED VERTICALLY OR HORIZONTALLY OVER THE OUTSIDE FACE OF EXTERIOR SHEATHING BOARD OR OTHER APPROVED SUBSTRATES.
b. COMPLETE DETAIL WORK AT; WALL OPENINGS, BUILDING TRANSITIONS AND PENETRATIONS PRIOR TO FIELD APPLICATIONS.
c. INSTALL FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER SHEET OVER THE OUTSIDE FACE OF EXTERIOR SHEATHING BOARD OR SUBSTRATE, MEASURE AND PRE-CUT INTO MANAGEABLE SIZED SHEETS TO SUIT THE APPLICATION CONDITIONS.
d. INSTALL FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER SHEET COMPLETE AND CONTINUOUS TO SUBSTRATE IN A SEQUENTIAL MINIMAL 3 INCH (76.2 MM) OVERLAPPING WEATHERBOARD.
e. STAGGER ALL END LAP SEAMS.
f. ROLL INSTALLED MEMBRANE WITH ROLLER TO ENSURE POSITIVE CONTACT AND ADHESION WITH SUBSTRATE IMMEDIATELY.
3.03 BUILDING TRANSITION CONDITIONS
A. CONSULT PUBLISHED DETAILS AT WWW.VAPROSHIELD.COM.
B. TIE-IN TO STRUCTURAL BEAMS, COLUMNS, FLOOR SLABS AND INTERMITTENT FLOORS, PARAPET CURBS, FOUNDATION WALLS, ROOFING SYSTEMS AND AT THE INTERFACE OF DISSIMILAR MATERIALS WITH SELF-ADHERING AIR BARRIER TRANSITION AND FLASHING MEMBRANE.
C. ALIGN AND POSITION FULLY SELF-ADHERED AIR BARRIER TRANSITION AND FLASHING MEMBRANE, REMOVE PROTECTIVE FILM AND PRESS FIRMLY INTO PLACE. PROVIDE MINIMUM 3 INCH (76.2 MM) LAP ON TO SUBSTRATES.
D. ENSURE MINIMUM 3 INCH (76.2 MM) OVERLAP AT SIDE AND END LAPS OF MEMBRANE AND 6 INCH (152.4 MM) AT INSIDE AND OUTSIDE CORNERS, IF JOINTS OCCUR AT CORNER LOCATIONS.
E. ROLL MEMBRANE AND LAP SEAMS WITH ROLLER TO ENSURE POSITIVE CONTACT AND ADHESION, IMMEDIATELY.
3.04 MECHANICAL EQUIPMENT PENETRATIONS
A. MECHANICAL PIPE, ELECTRICAL CONDUIT AND/OR DUCT WORK MUST BE SECURED SOLID INTO POSITION PRIOR TO INSTALLATION OF FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER MEMBRANE.
B. ELECTRICAL SERVICES PENETRATING THE WALL ASSEMBLY AND FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER MEMBRANE MUST BE PLACED IN APPROPRIATE CONDUIT AND SECURED SOLID INTO POSITION.
C. INSTALL MANUFACTURED FLANGED PENETRATION SLEEVES AS RECOMMENDED BY SLEEVE MANUFACTURER.
D. FOR STRAIGHT SIDED PENETRATIONS, CUT AND FIT FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER TO ACCOMMODATE SLEEVE, INSTALL VAPROLIQUI-FLASH TO SEAL THE AIR BARRIER MEMBRANE TO DUCTWORK OR PREFORMED FLANGE SLEEVE.
E. FOR PIPE PENETRATIONS, REFER TO MANUFACTURER'S STANDARD DETAILS.
3.05 WINDOW, DOOR AND OTHER WALL OPENINGS
A. CONSULT PUBLISHED INSTALLATION INSTRUCTIONS AT WWW.VAPROSHIELD.COM.
B. REVEALFLASHING® SA FULLY SELF-ADHERED FLASHING AND VAPROLIQUI-FLASH OR VAPRO-SS FLASHINGS BY VAPROSHIELD AROUND WINDOW OR WALL OPENINGS SUBJECT TO THE OPENING SIZE AND INSTALLATION OF WINDOW, DOOR OR LOUVER TYPE.
C. REVEALFLASHING® SA FULLY SELF-ADHERED AIR BARRIER TRANSITION AND FLASHING MEMBRANE INSTALLED 2 ¾ INCH (70 MM) INTO ROUGH WALL OPENINGS FOR THE SILL, JAMBS AND HEAD.
D. REMOVE RELEASE FILM, ALIGN FLASHING MEMBRANE AND APPLY PRESSURE TO ENSURE POSITIVE CONTACT. ROLL LAP SEAMS TO ENSURE ADHESION. PROVIDE LAP SEAMS IN SINGLED FASHION, TO SHED WATER.
E. VAPROLIQUI-FLASH VAPOR PERMEABLE WATER RESISTIVE FLASHING FOR ROUGH OPENINGS
1. DOWNLOAD INSTALLATION INSTRUCTIONS AT HTTP://VAPROSHIELD.COM/PUBLIC-DOCUMENTS/INSTALLATION-INSTRUCTIONS.
2. LIQUID-APPLIED WINDOW AND DOOR FLASHING SHALL BE VAPROLIQUI-FLASH® BY VAPROSHIELD, A LIQUID-APPLIED VAPOR PERMEABLE AIR BARRIER FLASHING MATERIAL WITH RESISTANCE TO MOISTURE AND AIR LEAKAGE PROPERTIES COMPATIBLE WITH THE PRIMARY WEATHER RESISTANT AIR BARRIER MEMBRANE.
3. APPLY A 12-15 WET MIL (0.030-0.038 MM) COATING ONTO THE INSTALLED VAPROFLASHING® SA, 1 INCH (25.4 MM) ONTO THE FACE CONTINUING INTO THE ROUGH OPENING, COVERING THE 2 ¾ INCH (70 MM) VAPROFLASHING® SA AND THE EXPOSED ROUGH OPENING SURFACE.
A. THROUGH-WALL FLASHING MEMBRANE
1. DOWNLOAD INSTALLATION INSTRUCTIONS AT HTTP://VAPROSHIELD.COM/PUBLIC-DOCUMENTS/INSTALLATION-INSTRUCTIONS.
2. APPLY THROUGH-WALL SELF-ADHERED FLASHING MEMBRANE ALONG THE BASE OF MASONRY VENEER WALLS AND OVER SHELF ANGLES AS DETAILED BY DESIGNER.
a. PRESS MEMBRANE FIRMLY INTO PLACE, OVERLAP MINIMUM 3 INCHES (76 MM) AT ALL LAPS. PROMPTLY ROLL ALL SURFACES USING A HAND ROLLER TO ENSURE GOOD ADHESION.
b. APPLICATIONS SHALL FORM A CONTINUOUS FLASHING MEMBRANE AND SHALL EXTEND UP A MINIMUM OF 8 INCHES (20 CM) UP THE BACK-UP WALL.
c. SEAL THE TOP EDGE OF THE MEMBRANE WHERE IT MEETS THE SUBSTRATE USING VARPOBOND. TROWEL-APPLY A FEATHERED EDGE TO SEAL TERMINATION TO SHED WATER OR INSTALL VARPOTERMINATION BAR AND VAPROBOND® SEALANT AT THE TOP EDGE.
d. INSTALL THROUGH-WALL FLASHING MEMBRANE ½ INCH (13 MM) FROM OUTSIDE EDGE OF VENEER. PROVIDE ©END DAM" FLASHING AS DETAILED BY DESIGNER.
B. OPTIONAL VAPRO-SS FLASHING VAPOR IMPERMIABLE FLASHING FOR ROUGH OPENINGS
1. SELF-ADHERED STAINLESS STEEL MEMBRANE FOR WINDOW AND DOOR FLASHING SHALL BE VAPRO-SS FLASH® BY VAPROSHIELD, AN IMPERMEABLE AIR AND WATER BARRIER FLASHING MATERIAL, REPLACES VAPROLIQUI-FLASH.
2. APPLY VAPROFLASHING® SA, 1 INCH (25 MM) ONTO THE FACE CONTINUING INTO THE ROUGH OPENING, COVERING THE 2 ¾ INCH (70 MM) VAPROFLASHING® SA AND THE EXPOSED ROUGH OPENING SURFACE.
3.06 VERTICAL APPLICATIONS SUMMARY
A. DOWNLOAD INSTALLATION INSTRUCTIONS AT HTTP://VAPROSHIELD.COM/PUBLIC-DOCUMENTS/INSTALLATION-INSTRUCTIONS.
B. FOR VERTICAL APPLICATIONS, ALIGN SHEETS WITH AN 'INSIDE' OR 'OUTSIDE' CORNER TO AVOID WRINKLES AND MISALIGNMENT OF SUBSEQUENT APPLICATIONS.
C. MEASURE AND PRE-CUT INTO MANAGEABLE SIZED FULLY SELF-ADHERED SHEETS TO SUIT THE APPLICATION CONDITIONS.
D. ALLOW FOR EXCESS MATERIAL AT BOTTOM OF WALL TO ACCOMMODATE TIE-INS AND CONNECTIONS TO ADJACENT SURFACES.
E. ROLL UP PRE-CUT MATERIAL LENGTHS WITH RELEASE PAPER FACING OUTWARD.
F. STARTING AT A CORNER OF THE ROLL, PEEL BACK APPROX. 6" (152.4 MM) OF RELEASE FILM FROM ACROSS THE WIDTH OF THE PRE-CUT MATERIAL ROLL.
G. USING HAND PRESSURE, LIGHTLY APPLY THE EXPOSED ADHESIVE SURFACE TO THE SUBSTRATE.
H. ALLOW THE ROLLED UP MATERIAL TO DROP DOWN THE WALL, WITH THE REMAINDER OF THE RELEASE FILM STILL ATTACHED (FACING THE WALL), AND EXTEND DOWN TO LOWEST POINT OF WALL, CHECKING FOR PROPER ALIGNMENT, REPOSITIONING AS NECESSARY.
I. ALLOW FOR EXCESS MATERIAL AT BOTTOM OF WALL TO ACCOMMODATE TIE-INS AND CONNECTIONS TO ADJACENT SURFACES.
J. ALIGN AND POSITION FULLY SELF-ADHERED MEMBRANE, REMOVE RELEASE FILM AND PRESS FIRMLY INTO PLACE. PROVIDE MINIMUM 3 INCH (76 MM) OVERLAP AT SIDE AND END LAPS OF MEMBRANE.
K. CONTINUE TO REMOVE RELEASE FILM AND APPLY PRESSURE TO ENSURE POSITIVE CONTACT ONTO WALL SUBSTRATE.
L. INSTALL SUBSEQUENT SHEETS OF FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER SHEETS IN OVERLAPPING WEATHERBOARD FORMAT. ENSURE SHEETS LAY SMOOTH AND FLAT TO SURFACES. ROLL MEMBRANE AND LAP SEAMS WITH TWO HANDED ROLLER TO ENSURE CONTACT AND ADHESION.
M. REFER TO HTTP://VAPROSHIELD.COM/INSTALLATION/INSTRUCTIONS FOR THE MOST CURRENT AND COMPLETE INSTALLATION INSTRUCTIONS.
3.07 HORIZONTAL APPLICATIONS
A. FOR HORIZONTAL APPLICATIONS, ALIGN SHEETS AND BEGIN INSTALLATION OF WATER-RESISTIVE WEATHER BARRIER AT BOTTOM OR LOWEST POINT OF WALL.
B. TO AVOID WRINKLES AND MISALIGNMENT OF SUBSEQUENT APPLICATIONS, IT IS RECOMMENDED TO PRE-MARK OR "SNAP" A LEVEL LINE TO WORK FROM.
C. MEASURE AND PRE-CUT INTO MANAGEABLE SIZED SHEETS TO SUIT THE APPLICATION CONDITIONS.
D. ALLOW FOR EXCESS MATERIAL AT BOTTOM OF WALL TO ACCOMMODATE TIE-INS AND CONNECTIONS TO ADJACENT SURFACES.
E. ALIGN AND POSITION FULLY SELF-ADHERED MEMBRANE, REMOVE RELEASE FILM AND PRESS FIRMLY INTO PLACE. PROVIDE MINIMUM 3 INCH (76 MM) OVERLAP AT ALL SIDE AND END LAPS OF MEMBRANE. ROLL MEMBRANE AND LAPPED SEAMS WITH A TWO HANDED ROLLER TO ENSURE CONTACT AND ADHESION.
F. CONTINUE TO REMOVE RELEASE FILM AND APPLY PRESSURE TO ENSURE POSITIVE CONTACT ONTO WALL SUBSTRATE.
G. INSTALL SUBSEQUENT SHEETS OF FULLY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER SHEETS IN OVERLAPPING WEATHERBOARD FORMAT. ENSURE SHEETS LAY SMOOTH AND FLAT TO SURFACES. ROLL MEMBRANE AND LAPPED SEAMS WITH A TWO HANDED ROLLER TO ENSURE CONTACT AND ADHESION.
H. REFER TO HTTP://VAPROSHIELD.COM/INSTALLATION/INSTRUCTIONS FOR THE MOST CURRENT AND COMPLETE INSTALLATION INSTRUCTIONS.
3.08 BATTENS VENTILATION STRIPS, SHIMS OR MAT FOR RAIN SCREEN CLADDING SYSTEMS
A. PROVIDE AND INSTALL SPECIFIED BATTENS AND VENTILATION STRIPS UNDER CLADDING SYSTEMS.
B. INSTALL HORIZONTAL STARTER STRIP OR VENT STRIP AT BASE OF WALL, VERTICAL BATTENS AND TOP VENT STRIP, SECURE INTO SOLID BACKING READY FOR INSTALLATION OF CLADDING SYSTEM.
C. COORDINATE SPACING OF BATTENS AND VENT STRIPS TO ACCOMMODATE CLADDING SYSTEM.
D. COORDINATE SPACING OF VAPROSHIM® TO ACCOMMODATE CLADDING SYSTEM ATTACHMENTS.
E. COORDINATE ATTACHMENT OF VAPROMAT® TO ACCOMMODATE CLADDING SYSTEM ATTACHMENTS.
3.09 FASTENING CLIPS AND MASONRY TIES
A. INSTALL CLIPS AND MASONRY TIES OVER PRIMARY SELF-ADHERED VAPOR PERMEABLE AIR BARRIER MEMBRANE.
B. SECURE CLIPS AND MASONRY TIES WITH CORROSION-RESISTANT, OR STAINLESS STEEL SCREWS WITH GASKETED FASTENERS.
C. CONSULT VAPROSHIELD TECHNICAL SERVICES FOR RECOMMENDATIONS ON FASTENER TREATMENTS FOR RAIN SCREEN CLADDING ATTACHMENT COMPONENTS BY OTHERS.
3.10 FIELD QUALITY CONTROL
A. MAKE NOTIFICATION WHEN SECTIONS OF WORK ARE COMPLETE TO ALLOW REVIEW PRIOR TO COVERING FULLY SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER SYSTEM.
B. OWNER TO ENGAGE INDEPENDENT CONSULTANT TO OBSERVE SUBSTRATE AND MEMBRANE INSTALLATION PRIOR TO PLACEMENT OF CLADDING SYSTEM(S) AND PROVIDE WRITTEN DOCUMENTATION OF OBSERVATIONS.
3.11 PROTECTION
A. PROTECT WALL AREAS COVERED WITH SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES, HIGH WIND CONDITIONS, AND EXTENDED EXPOSURE TO INCLEMENT WEATHER.
B. REVIEW CONDITION OF FULLY SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER PRIOR TO INSTALLATION OF CLADDING. REPAIR, OR REMOVE AND REPLACE DAMAGED SECTIONS WITH NEW MEMBRANE.
C. RECOMMEND TO CAP AND PROTECT EXPOSED BACK-UP WALLS AGAINST WET WEATHER CONDITIONS DURING AND AFTER APPLICATION OF MEMBRANE, INCLUDING WALL OPENINGS AND CONSTRUCTION ACTIVITY ABOVE COMPLETED FULLY SELF-ADHERED WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER INSTALLATIONS.
D. REMOVE AND REPLACE WATER-RESISTIVE WEATHER BARRIER MEMBRANE AFFECTED BY CHEMICAL SPILLS OR SURFACTANTS.
END OF SECTION 07271

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

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SECTION 07423 COMPOSITE WALL PANELS

PART I - GENERAL
1.1 SECTION INCLUDES:
A. EXTERIOR, PANELIZED FIBER CEMENT CLADDING SYSTEM AND ACCESSORIES TO COMPLETE A DRAINED AND BACK-VENTILATED RAINSCREEN.
1.2 RELATED SYSTEMS
A. STRUCTURAL METAL STUD FRAMING
B. ROUGH CARPENTRY
C. SHEATHING
D. THERMAL PROTECTION
E. WEATHER BARRIERS
F. FLASHING AND SHEET METAL
G. JOINT PROTECTION
1.3 REFERENCES
A. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA):
1. AAMA 509-09 - VOLUNTARY TEST AND CLASSIFICATION METHOD OF DRAINED AND BACK VENTILATED RAIN SCREEN WALLCLADDING SYSTEMS
B. ASTM INTERNATIONAL (ASTM):
1. ASTM C 518 - STANDARD TEST METHOD FOR STEADY-STATE THERMAL TRANSMISSION PROPERTIES BY MEANS OF THE HEAT FLOW METER APPARATUS.
2. ASTM C 1185 - STANDARD TEST METHODS FOR SAMPLING AND TESTING NON-ASBESTOS FIBER CEMENT.
A. ASTM C 1186 - STANDARD SPECIFICATION FOR FLAT FIBER-CEMENT SHEETS.
3. ASTM E-84 - STANDARD TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.
4. ASTM E 119 - STANDARD TEST METHODS FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS.
5. ASTM E 228 - STANDARD TEST METHOD FOR LINEAR THERMAL EXPANSION OF SOLID MATERIALS WITH A VITREOUS SILICA DILATOMETER.
6. ASTM E 330 - STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE.
7. ASTM E 331 - STANDARD TEST METHOD FOR WATER PENETRATION OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE.
8. ASTM G 23 - STANDARD PRACTICE FOR OPERATING LIGHT-EXPOSURE APPARATUS (CARBON-ARC TYPE) WITH AND WITHOUT WATER FOR EXPOSURE OF NONMETALLIC MATERIALS, REPLACED BY G152 AND G153.
C. FLORIDA BUILDING CODE - TEST PROTOCOL HVHZ
1. TESTING APPLICATION STANDARD (TAS) 201, 202, 203 - IMPACT TEST PROCEDURES
D. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):
1. NFPA 285 - FIRE TEST METHOD FOR EXTERIOR WALL ASSEMBLIES CONTAINING COMBUSTIBLE MATERIAL.
2. NFPA 268 - IGNITION RESISTANCE OF EXTERIOR WALL ASSEMBLIES.
1.4 SUBMITTALS
A. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DESCRIPTION, STORAGE AND HANDLING REQUIREMENTS, AND INSTALLATION INSTRUCTIONS.
B. PRODUCT TEST REPORTS AND CODE COMPLIANCE: DOCUMENTS DEMONSTRATING PRODUCT COMPLIANCE WITH LOCAL BUILDING CODE, SUCH AS TEST REPORTS OR EVALUATION REPORTS FROM QUALIFIED, INDEPENDENT TESTING AGENCIES.
C. MANUFACTURER'S DETAILS: SUBMIT DRAWINGS (.DWG, .RVT, AND/OR .PDF FORMATS), INCLUDING PLANS, SECTIONS, SHOWING INSTALLATION DETAILS THAT DEMONSTRATE PRODUCT DIMENSIONS, EDGE/TERMINATION CONDITIONS/TREATMENTS, COMPRESSION AND CONTROL JOINTS, CORNERS, OPENINGS, AND PENETRATIONS.
D. SAMPLES: VERIFY IF REQUIRED BY OWNER OR ARCHITECT. IF REQUIRED, SUBMIT SAMPLES OF EACH PRODUCT TYPE PROPOSED FOR USE.
1.5 QUALITY ASSURANCE
A. MANUFACTURER QUALIFICATIONS:
1. ALL FIBER CEMENT PANELS SPECIFIED IN THIS SECTION MUST BE SUPPLIED BY A MANUFACTURER WITH A MINIMUM OF 10 YEARS OF EXPERIENCE IN FABRICATING AND SUPPLYING FIBER CEMENT CLADDING SYSTEMS.
A. PRODUCTS COVERED UNDER THIS SECTION ARE TO BE MANUFACTURED IN AN ISO 9001 CERTIFIED FACILITY.
2. PROVIDE TECHNICAL AND DESIGN SUPPORT AS NEEDED REGARDING INSTALLATION REQUIREMENTS AND WARRANTY COMPLIANCE PROVISIONS.
B. INSTALLER QUALIFICATIONS: ALL PRODUCTS LISTED IN THIS SECTION ARE TO BE INSTALLED BY A SINGLE INSTALLER TRAINED BY MANUFACTURER OR REPRESENTATIVE.
C. MOCK-UP WALL: VERIFY IF REQUIRED BY OWNER OR ARCHITECT. IF REQUIRED, PROVIDE A MOCK-UP WALL AS EVALUATION TOOL FOR PRODUCT AND INSTALLATION WORKMANSHIP.
D. PRE-INSTALLATION MEETINGS: PRIOR TO BEGINNING INSTALLATION, CONDUCT CONFERENCE TO VERIFY AND DISCUSS SUBSTRATE CONDITIONS, MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WARRANTY REQUIREMENTS, AND PROJECT REQUIREMENTS.
1.6 DELIVERY, STORAGE, AND HANDLING
A. PANELS MUST BE STORED FLAT AND KEPT DRY BEFORE INSTALLATION. A WATERPROOF COVER OVER PANELS AND ACCESSORIES SHOULD BE USED AT ALL TIMES PRIOR TO INSTALLATION.
B. IF PANELS ARE EXPOSED TO WATER OR WATER VAPOR PRIOR TO INSTALLATION, ALLOW TO COMPLETELY DRY BEFORE INSTALLING. FAILURE TO DO SO MAY RESULT IN PANEL SHRINKAGE AT SHIP LAP JOINTS, AND SUCH ACTION MAY VOID WARRANTY.
C. PANELS MUST BE CARRIED ON EDGE. DO NOT CARRY OR LIFT PANELS FLAT. IMPROPER HANDLING MAY CAUSE CRACKING OR PANEL DAMAGE.
D. DIRECT CONTACT BETWEEN THE PANELS AND THE GROUND SHOULD BE AVOIDED AT ALL TIMES. IT IS NECESSARY TO KEEP PANELS CLEAN DURING INSTALLATION PROCESS.
1.7 WARRANTY
A. PROVIDE MANUFACTURER'S 50-YEAR WARRANTY AGAINST MANUFACTURED DEFECTS IN FIBER CEMENT PANELS.
B. PROVIDE MANUFACTURER'S 15-YEAR WARRANTY AGAINST MANUFACTURED DEFECTS IN PANEL FINISH.
C. WARRANTY PROVIDES FOR THE ORIGINAL PURCHASER. SEE WARRANTY FOR DETAILED INFORMATION ON TERMS, CONDITIONS AND LIMITATIONS.
PART II: PRODUCTS
2.1 MANUFACTURERS
A. ACCEPTABLE MANUFACTURER: NICHIHA CORPORATION, 18-19 NISHIKI 2-CHOME NAKA-KU, NAGOYA, AICHI 460-8610, JAPAN.
B. ACCEPTABLE MANUFACTURER'S REPRESENTATIVE: NICHIHA USA, INC., 6465 E. JOHNS CROSSING, SUITE 250, JOHNS CREEK, GA 30097. TOLL FREE: 1.866.424.4421, OFFICE: 770.805.9466, FAX: 770.805.9467, WWW.NICHIHA.COM.
1. BASIS OF DESIGN PRODUCT: NICHIHA VINTAGEWOOD / ILLUMINATION.
A. PROFILE COLORS: SEE EXTERIOR FINISH SCHEDULE
B. PROFILES: VINTAGEWOOD - WOOD PLANK TEXTURE WITH THREE, 3/8" GROOVES RUNNING LENGTHWISE, SPACED 5-5/8" APART.
C. ACCESSORY/COMPONENT OPTIONS:
I. ~~MANUFACTURED CORNERS WITH 3-1/2" RETURNS FOR EACH PROFILE COLOR.~~
II. ALUMINUM TRIM TO BE PAINTED PER FINISH SCHEDULE: OUTSIDE CORNERS (CORNER KEY, OPEN OUTSIDE CORNER), VERTICAL JOINTS (H-MOLD), TERMINATIONS (J-MOLD)
III. ESSENTIAL FLASHING SYSTEM: STARTER, COMPRESSION JOINT, OVERHANG.
D. DIMENSIONS - AWP-3030: 455MM (17-7/8") (H) X 3,030 MM (119-5/16") (L).
E. PANEL THICKNESS: 16 MM (5/8").
F. WEIGHT: 57.32 LBS. PER PANEL.
G. COVERAGE: 14.81 SQ. FT. PER PANEL.
H. FACTORY SEALED ON SIX [6] SIDES.
C. SUBSTITUTIONS: NOT PERMITTED.
2.2 MATERIALS
A. FIBER CEMENT PANELS MANUFACTURED FROM A PRESSED, STAMPED, AND AUTOCLAVED MIX OF PORTLAND CEMENT, FLY ASH, SILICA, RECYCLED REJECTS, AND WOOD FIBER BUNDLES.
B. PANEL SURFACE PRE-FINISHED AND MACHINE APPLIED.
C. PANELS PROFILED ALONG ALL FOUR EDGES, SUCH THAT BOTH HORIZONTAL AND VERTICAL JOINTS BETWEEN THE INSTALLED PANELS ARE SHIP-LAPPED.
D. FACTORY-APPLIED SEALANT GASKET ADDED TO TOP AND RIGHT PANEL EDGES; ALL JOINTS CONTAIN A FACTORY SEALANT.
2.3 PERFORMANCE REQUIREMENTS:
A. FIBER CEMENT CLADDING - MUST COMPLY WITH ASTM C-1186, TYPE A, GRADE II REQUIREMENTS:
1. WET FLEXURAL STRENGTH, LOWER LIMIT: 1015 PSI.
2. WATER TIGHTNESS: NO WATER DROPLETS OBSERVED ON ANY SPECIMEN.
3. FREEZE-THAW: NO DAMAGE OR DEFECTS OBSERVED.
4. WARM WATER: NO EVIDENCE OF CRACKING, DELAMINATION, SWELLING, OR OTHER DEFECTS OBSERVED.
5. HEAT-RAIN: NO CRAZING, CRACKING, OR OTHER DELETERIOUS EFFECTS, SURFACE OR JOINT CHANGES OBSERVED IN ANY SPECIMEN.
B. MEAN COEFFICIENT OF LINEAR THERMAL EXPANSION (ASTM E-228): MAX 1.0*10^-5 IN./IN. F.
C. SURFACE BURNING (CAN-ULC S102/ASTM E-84): FLAME SPREAD: 0, SMOKE DEVELOPED: 5.
D. WIND LOAD (ASTM E-330): CONTACT MANUFACTURER FOR ULTIMATE TEST PRESSURE DATA CORRESPONDING TO FRAMING TYPE, DIMENSIONS, FASTENER TYPE, AND ATTACHMENT CLIPS. PROJECT ENGINEER(S) MUST DETERMINE ZONE 4 AND 5 DESIGN PRESSURES BASED ON PROJECT SPECIFICS.
1. MINIMUM LATERAL DEFLECTION: L/120.
E. WATER PENETRATION (ASTM E-331): NO WATER LEAKAGE OBSERVED INTO WALL CAVITY.
F. WEATHER RESISTANT (ASTM G-23): NO CRACKING, CHECKING, CRAZING, EROSION, OR OTHER DETRIMENTAL EFFECTS OBSERVED.
G. STEADY-STATE HEAT FLUX AND THERMAL TRANSMISSION PROPERTIES TEST (ASTM C-518): THERMAL RESISTANCE R VALUE OF 1.23.
H. FIRE RESISTANT (ASTM E-119): THE WALL ASSEMBLY MUST SUCCESSFULLY ENDURE 60-MINUTE FIRE EXPOSURE WITHOUT DEVELOPING EXCESSIVE UNEXPOSED SURFACE TEMPERATURE OR ALLOWING FLAMING ON THE UNEXPOSED SIDE OF THE ASSEMBLY.
I. IGNITION RESISTANCE (NFPA 268): NO SUSTAINED FLAMING OF PANELS, ASSEMBLY WHEN SUBJECTED TO A MINIMUM RADIANT HEAT FLUX OF 12.5 KW/M2 ± 5% IN THE PRESENCE OF A PILOT IGNITION SOURCE FOR A 20-MINUTE PERIOD.
J. FIRE PROPAGATION (NFPA 285): WALL ASSEMBLY OF NICHIHA AWP, ULTIMATE CLIPS AND STARTER TRACK, TYVEK COMMERCIAL WRAP, ½" DENSGLASS GOLD SHEATHING, 16" O.C. 18 GAUGE STEEL STUDS, MINERAL WOOL IN-CAVITY INSULATION, AND INTERIOR 5/8" TYPE X GYPSUM MET THE ACCEPTANCE CRITERIA OF NFPA 285.
K. FIRE PROPAGATION (CAN/ULC S-134): WALL ASSEMBLY OF NICHIHA AWP, ULTIMATE CLIPS AND STARTER TRACK, TYVEK HOUSEWRAP, 5/8" FRT PLYWOOD, 16" O.C. 2X WOOD STUDS, FIBERGLASS IN-CAVITY INSULATION, AND INTERIOR 5/8" TYPE X GYPSUM MET THE ACCEPTANCE CRITERIA OF CAN/ULC S-134.
L. DRAINED AND BACK VENTILATED RAINSCREEN (AAMA 509-09): SYSTEM MUST PASS ALL COMPONENT TESTS.
M. FLORIDA BUILDING CODE - TEST PROTOCOL HVHZ (TAS 201, 202, 203): PASSED.
2.4 INSTALLATION COMPONENTS
A. ULTIMATE CLIP SYSTEM:
1. STARTER TRACK:
A. HORIZONTAL PANEL INSTALLATIONS - FA 700 - 3,030MM (L) GALVALUME.
B. VERTICAL PANEL INSTALLATIONS (AWP-3030 ONLY) - FA 710T - 3,030MM (L) GALVALUME.
2. PANEL CLIPS: JEL 777 "ULTIMATE CLIP" (10MM RAINSCREEN FOR 16MM AWP) - ZINC-ALUMINUM-MAGNESIUM ALLOY COATED STEEL.
A. JOINT TAB ATTACHMENTS (INCLUDED) - USED AT ALL AWP-1818 PANEL TO PANEL VERTICAL JOINTS - NOT USED WITH AWP-3030 INSTALLATIONS.
3. SINGLE FLANGE SEALANT BACKER - FHK 1017 (10MM) - 6.5' (L) FLUORINE COATED GALVALUME.
4. DOUBLE FLANGE SEALANT BACKER - FH 1020 (10MM) - 10' (L) FLUORINE COATED GALVALUME.
5. CORRUGATED SPACER - FS 1005 (5MM), FS 1010 (10MM) - 4' (L).
6. FINISH CLIP (OPTIONAL) - JE310 (5MM)
B. ALUMINUM TRIM (OPTIONAL): PAINT AS SPECIFIED IN FINISH SCHEDULE.
C. ESSENTIAL FLASHING SYSTEM (OPTIONAL):
1. STARTER - MAIN SEGMENTS (3,030MM), INSIDE CORNERS, OUTSIDE CORNERS
2. COMPRESSION JOINT - MAIN SEGMENTS (3,030MM)
3. OVERHANG - MAIN SEGMENTS (3,030MM), INSIDE CORNERS, OUTSIDE CORNERS, JOINT CLIPS
D. FASTENERS: CORROSION RESISTANT FASTENERS, SUCH AS HOT-DIPPED GALVANIZED SCREWS APPROPRIATE TO LOCAL BUILDING CODES AND PRACTICES MUST BE USED. USE STAINLESS STEEL FASTENERS IN HIGH HUMIDITY AND HIGH-MOISTURE REGIONS. PANEL MANUFACTURER IS NOT LIABLE FOR CORROSION RESISTANCE OF FASTENERS. DO NOT USE ALUMINUM FASTENERS, STAPLES OR FASTENERS THAT ARE NOT RATED OR DESIGNED FOR INTENDED USE. SEE MANUFACTURER'S INSTRUCTIONS FOR APPROPRIATE FASTENERS FOR CONSTRUCTION METHOD USED.
E. FLASHING: FLASH ALL AREAS SPECIFIED IN MANUFACTURER'S INSTRUCTIONS. DO NOT USE RAW ALUMINUM FLASHING. FLASHING MUST BE GALVANIZED, ANODIZED, OR PVC COATED.
F. SEALANT: SEALANT SHALL COMPLY WITH ASTM C920.
PART III: EXECUTION
3.1 EXAMINATION
A. VERIFICATION OF CONDITIONS:
1. FIBER CEMENT PANELS CAN BE INSTALLED OVER BRACED WOOD, STEEL STUDS AND SHEATHING INCLUDING PLYWOOD, OSB, PLASTIC FOAM OR FIBERBOARD SHEATHING. FIBER CEMENT PANELS CAN ALSO BE INSTALLED OVER STRUCTURAL INSULATED PANELS (SIP'S), CONCRETE MASONRY UNITS (CMU'S) AND CONCRETE BLOCK STRUCTURES (CBS'S) WITH FURRING STRIPS, AND PRE-ENGINEERED METAL CONSTRUCTION. INSULATED CONCRETE FORMS (ICFS) ARE NOT AN APPROVED SUBSTRATE UNDER ANY CONDITION.
2. ALLOWABLE STUD SPACING: 16" O.C. MAXIMUM.
3. A WEATHER RESISTIVE BARRIER IS REQUIRED WHEN INSTALLING FIBER CEMENT PANELS. USE AN APPROVED WEATHER RESISTIVE BARRIER (WRB) AS DEFINED BY THE 2015 IBC OR IRC. REFER TO LOCAL BUILDING CODES.
4. APPROPRIATE METAL FLASHING SHOULD BE USED TO PREVENT MOISTURE PENETRATION AROUND ALL DOORS, WINDOWS, WALL BOTTOMS, MATERIAL TRANSITIONS AND PENETRATIONS. REFER TO LOCAL BUILDING CODES FOR BEST PRACTICES.
B. EXAMINE SITE TO ENSURE SUBSTRATE CONDITIONS ARE WITHIN SPECIFICATION FOR PROPER INSTALLATION.
C. DO NOT BEGIN INSTALLATION UNTIL UNACCEPTABLE CONDITIONS HAVE BEEN CORRECTED.
D. DO NOT INSTALL PANELS OR COMPONENTS THAT APPEAR TO BE DAMAGED OR DEFECTIVE. DO NOT INSTALL WET PANELS.
3.2 INSTALLATION
A. GENERAL: INSTALL PRODUCTS IN ACCORDANCE WITH THE LATEST INSTALLATION GUIDELINES OF THE MANUFACTURER AND ALL APPLICABLE BUILDING CODES AND OTHER LAWS, RULES, REGULATIONS AND ORDINANCES. REVIEW ALL MANUFACTURER INSTALLATION, MAINTENANCE INSTRUCTIONS, AND OTHER APPLICABLE DOCUMENTS BEFORE INSTALLATION.
1. CONSULT WITH YOUR LOCAL DEALER OR NICHIHA TECHNICAL DEPARTMENT BEFORE INSTALLING ANY NICHIHA FIBER CEMENT PRODUCT ON A BUILDING HIGHER THAN 45 FEET OR THREE STORIES OR FOR CONDITIONS NOT MATCHING PRESCRIBED STANDARD INSTALLATION GUIDE REQUIREMENTS AND METHODS. SPECIAL INSTALLATION CONDITIONS MAY BE REQUIRED VIA A TECHNICAL REVIEW AND SPECIAL APPLICATIONS FORM (SAF) PROCESS.
2. VERTICAL CONTROL/EXPANSION JOINTS ARE REQUIRED WITHIN 2-10 FEET OF OUTSIDE CORNERS FINISHED WITH METAL TRIM AND APPROXIMATELY EVERY 30 FEET THEREAFTER.
3. HORIZONTAL/COMPRESSION JOINTS ARE REQUIRED FOR MULTI-STORY INSTALLATIONS OF AWP. LOCATE JOINTS AT FLOOR LINES. JOINTS ARE FLASHED MINIMUM 1/2" BREAKS. DO NOT CAULK. REFER TO INSTALLATION GUIDE(S).
A. WOOD FRAMED BUILDINGS OF THREE OR MORE FLOORS REQUIRE A COMPRESSION JOINT AT EACH FLOOR.
B. STEEL FRAMED BUILDINGS (INCLUDING REINFORCED CONCRETE CORE WITH LGMF EXTERIOR WALLS) OF MORE THAN THREE FLOORS (OR 45 FEET) REQUIRE A COMPRESSION JOINT EVERY 25 FEET AT A FLOOR LINE.
B. PANEL CUTTING
1. ALWAYS CUT FIBER CEMENT PANELS OUTSIDE OR IN A WELL VENTILATED AREA. DO NOT CUT THE PRODUCTS IN AN ENCLOSED AREA.
2. ALWAYS WEAR SAFETY GLASSES AND NIOSH/OSHA APPROVED RESPIRATOR WHENEVER CUTTING, DRILLING, SAWING, SANDING OR ABRADING THE PRODUCTS. REFER TO MANUFACTURER SDS FOR MORE INFORMATION.
3. USE A DUST-REDUCING CIRCULAR SAW WITH A DIAMOND-TIPPED OR CARBIDE-TIPPED BLADE.
A. RECOMMENDED CIRCULAR SAW: MAKITA 7-1/4" CIRCULAR SAW WITH DUST COLLECTOR (#5057KB).
B. RECOMMENDED BLADE: TENRYU BOARD-PRO PLUS PCD BLADE (#BP-18505).
C. SHEARS (ELECTRIC OR PNEUMATIC) OR JIG SAW CAN BE USED FOR COMPLICATED CUTTINGS, SUCH AS SERVICE OPENINGS, CURVES, RADII AND SCROLLWORK.
4. SILICA DUST WARNING: FIBER CEMENT PRODUCTS MAY CONTAIN SOME AMOUNTS OF CRYSTALLINE SILICA, A NATURALLY OCCURRING, POTENTIALLY HAZARDOUS MINERAL WHEN AIRBORNE IN DUST FORM. CONSULT PRODUCT SDS OR VISIT HTTPS://WWW.OSHA.GOV/DSG/TOPICS/SILICACRYSTALLINE/.
3.3 CLEANING AND MAINTENANCE
A. REVIEW MANUFACTURER GUIDELINES FOR DETAILED CARE INSTRUCTIONS.
END OF SECTION 07423

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SECTION 07500 - SINGLE-PLY ROOFING (PVC)

1.1 GENERAL: PROVIDE THE THERMOPLASTIC MEMBRANE (PVC) ROOFING SYSTEM AS SHOWN AND SPECIFIED.
A. STANDARDS: MATERIALS AND CONSTRUCTION SHALL CONFORM TO FOLLOWING:
1. ASTM D5036 "APPLICATION OF ADHERED POLY (VINYL CHLORIDE) SHEET ROOFING."
2. FM 1-29 LOSS PREVENTION DATA ADHERED OR MECHANICALLY ATTACHED SINGLE PLY MEMBRANE ROOF SYSTEMS."
3. NRCA "SINGLE-PLY ROOFING MEMBRANE."
4. UL "790 - TESTS FOR FIRE RESISTANCE OF ROOF COVERING MATERIALS."
B. INSTALLER QUALIFICATIONS: AN EXPERIENCED ROOFING INSTALLER APPROVED BY ROOFING SYSTEM MANUFACTURER AND WITH NOT LESS THAN FIVE YEARS OF SUCCESSFUL EXPERIENCE INSTALLING MEMBRANE ROOFING SYSTEMS SIMILAR TO THOSE REQUIRED FOR THIS PROJECT.
C. DELIVER, STORE AND HANDLE ROOF SYSTEM MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO AVOID DAMAGE AND DETERIORATION.
1. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR HANDLING AND PROTECTION DURING INSTALLATION.
D. INSTALL ROOFING WORK ONLY WHEN WEATHER CONDITIONS COMPLY WITH MANUFACTURER'S SPECIFIC ENVIRONMENTAL REQUIREMENTS AND CONDITIONS WILL PERMIT WORK TO BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND WARRANTY REQUIREMENTS.
1. PROTECT ADJACENT MATERIALS AND SURFACES FROM DAMAGE AND SOILING DURING ROOFING SYSTEM INSTALLATION.
2. PROVIDE SPECIAL PROTECTION ON COMPLETED ROOFING WORK.
3. PROTECT PAVING AND STRUCTURE WALLS ADJACENT TO HOISTS BEFORE STARTING WORK.
4. DO NOT OVERLOAD THE BUILDING STRUCTURE WITH STORAGE OF MATERIALS OR INSTALLATION EQUIPMENT ON THE SUBSTRATE DECKING.
E. WARRANTY
1. CONTRACTOR AND ROOF SYSTEM INSTALLER SHALL JOINTLY WARRANT ROOFING MATERIALS AND INSTALLATION FOR A PERIOD OF TWO YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION. WARRANTY SHALL INCLUDE ROOFING MEMBRANE, FLASHING, ROOF INSULATION, ROOFING ACCESSORIES AND SHEET METAL WORK PROVIDED UNDER SECTION 07600.
2. MANUFACTURER'S WARRANTY: SUBMIT EXECUTED COPY OF ROOFING SYSTEM MANUFACTURER'S 15 YEAR TOTAL SYSTEM WARRANTY, INCLUDING LABOR AND MATERIALS FOR THE ENTIRE ROOF SYSTEM. INCLUDING PERIMETER EDGE METAL, SECTION 07600 FLASHING & SHEET METAL

2.1 MATERIALS
A. MANUFACTURER: DURO-LAST ROOFING, INC, (800) 248-0280, JASON DARK, WWW.DURO-LAST.COM
B. THERMOPLASTIC SINGLE PLY MEMBRANE ROOFING SYSTEM: DL MEMBRANE (PVC) FULLY ADHERED, SMOOTH SURFACE, UL CLASS A FIRE-RATED SINGLE PLY MEMBRANE ROOFING SYSTEM.
1. THERMOPLASTIC MEMBRANE: DL MEMBRANE, THERMOPLASTIC FIBER REINFORCED PVC MEMBRANE, NOT LESS THAN 40 MILS (.040), COMPLYING WITH ASTM D4434 AND MEMBRANE MANUFACTURER'S PUBLISHED PHYSICAL PROPERTIES.
C. THE ROOF COVERING DESIGN MUST RESIST A WIND LOAD IN ACCORDANCE WITH CURRENT FLORIDA BUILDING CODE AND LOCAL DESIGN REQUIREMENTS AND SHALL RESIST IMPACT DAMAGE BASED ON RESULTS OF TESTS BASED ON THE RESULTS OF TESTS CONDUCTED IN ACCORDANCE WITH ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M OR FM 4470. BASIS OF DESIGN: FL 31331 SYSTEM S-22, MDP -67.5. PERIMETER AND CORNER AREAS SHALL COMPLY WITH THE ENHANCED UPLIFT PRESSURE REQUIREMENTS OF THESE AREAS. FASTENER DENSITIES SHALL BE INCREASED, AS CALCULATED IN COMPLIANCE WITH ROOFING APPLICATION STANDARD RAS 117 AND/OR ROOFING APPLICATION STANDARD RAS 137 BY A QUALIFIED DESIGN PROFESSIONAL.
1. ROOF INSULATION: RIGID CLOSED CELL POLYISOCYANURATE BOARDS APPROVED BY THE MEMBRANE MANUFACTURER; COMPLYING WITH ASTM C1289, TYPE II, MINIMUM 20 PSI COMPRESSIVE STRENGTH, AGED R-VALUE EQUAL 5.6 PER INCH OF THICKNESS.
A. PROVIDE A DOUBLE LAYER INSTALLATION. R 23 MINIMUM TOTAL R-VALUE.
B. SPECIFIED PERIMETER EDGE METAL SHALL BE COMPLIANT WITH INTERNATIONAL BUILDING CODE ANSI / SPRI ES-1, ER2 TESTING REQUIREMENTS.
2. FLASHING: ROOF SYSTEM MANUFACTURER'S STANDARD SHEET FLASHING OF SAME MATERIAL, TYPE, AND COLOR AS SHEET MEMBRANE. SPECIFIED PERIMETER EDGE METAL WILL BE COMPLIANT WITH INTERNATIONAL BUILDING CODE ANSI / SPRI ES-1, RE2 TESTING REQUIREMENTS.
3. MEMBRANE BONDING ADHESIVE: DURO-LAST WB II ADHESIVE
4. FASTENERS: ROOF SYSTEM MANUFACTURER'S STANDARD FASTENERS FOR PROJECT CONDITIONS INDICATED.
5. ACCESSORIES: ROOF SYSTEM MANUFACTURER'S RECOMMENDED POURABLE SEALERS, PREFORMED PENETRATION FLASHING, PREFORMED CORNER FLASHING, SEAM CAULK, TERMINATION BARS AND OTHER ACCESSORIES REQUIRED FOR SUBSTRATE SURFACES AND INSTALLATION CONDITIONS INDICATED.
6. TRAFFIC WALKWAYS: DURO-LAST ROOF TRACK III WALKWAY PADS.

3.1 INSTALLATION
A. PREPARATION:
1. CLEAN SUBSTRATE SURFACES OF DEBRIS AND OTHER SUBSTANCES DETRIMENTAL TO ROOFING INSTALLATION.
2. CORRECT UNSATISFACTORY CONDITIONS BEFORE STARTING ROOFING. ROOF DECK SURFACE CONDITIONS SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS AND BE ACCEPTABLE TO THE ROOFING SYSTEM INSTALLER.
B. INSTALLATION:
1. GENERAL: PROVIDE ROOFING SYSTEM MATERIALS AND INSTALLATION COMPLYING WITH ROOFING SYSTEM MANUFACTURER'S INSTRUCTIONS AND GOVERNING CODES AND REGULATIONS.
2. ROOF INSULATION AND COVER BOARD.
A. EXTEND INSULATION FULL THICKNESS OVER ENTIRE SURFACE TO BE INSULATED. CUT AND FIT AROUND OBSTRUCTIONS; FILL ALL VOIDS WITH INSULATION. PROVIDE SADDLES AND TAPERED EDGES AS REQUIRED TO PROVIDE POSITIVE PROPER DRAINAGE.
INSTALL A DOUBLE LAYER OF INSULATION UNITS OF THE REQUIRED THICKNESS. RUN LONG JOINTS OF INSULATION IN CONTINUOUS STRAIGHT LINES, PERPENDICULAR TO ROOF SLOPE, WITH END JOINTS STAGGERED BETWEEN ROWS. STAGGER JOINTS OF EACH LAYER OF INSULATION. BUTT EDGES TO MODERATE CONTACT. LIMIT JOINTS BETWEEN ADJACENT UNITS TO MAXIMUM 1/4".
B. INSTALL SECUROCK COVER BOARD, SECURE IN PLACE WITH INSULATION MECHANICAL FASTENERS ALL LAYERS OF INSULATION AND COVER BOARD. SECURE IN ACCORDANCE WITH MEMBRANE MANUFACTURER'S RECOMMENDATIONS. STAGGER JOINTS WITH JOINTS OF ROOF INSULATION.
3. THERMOPLASTIC MEMBRANE: COMPLY WITH MEMBRANE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR HANDLING AND INSTALLING SINGLE PLY MEMBRANE ROOFING.
A. UNROLL AND POSITION ROOFING SHEET MEMBRANE WITHOUT STRETCHING. ALIGN TOP SHEET WITH PRE-MARKED LINES ON BOTTOM SHEET. ALLOW MEMBRANE TO "RELAX" FOR AT LEAST 30 MINUTES BEFORE ADHERING, SPLICING AND FLASHING.
B. ADHERE MEMBRANE TO INSULATION COVER BOARD WITH BONDING ADHESIVE. BROOM BONDED MEMBRANE TO ACHIEVE MAXIMUM CONTACT.
C. JOIN MEMBRANE SEAMS USING APPROVED HEAT WELDING EQUIPMENT. CHECK ALL SPLICES FOR VOIDS AND REPAIR VOIDS WITH HEAT GUN AND ROLLER.
D. WHEN REQUIRED, MECHANICALLY FASTEN MEMBRANE AT ROOF PERIMETER, CURB FLASHING AND SIMILAR PENETRATIONS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
E. FLASH AND MAKE WEATHERTIGHT ALL EQUIPMENT CURBS, PIPES, CONDUITS, DRAINS AND OTHER PENETRATIONS OR PROJECTIONS THROUGH SHEET ROOFING USING ROOFING SYSTEM MANUFACTURER'S RECOMMENDED FLASHING MATERIALS, ACCESSORIES AND PROCEDURES.
4. INSTALL ROOF ACCESSORIES AND TRAFFIC WALKWAYS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
5. INSTALL SHEET METAL WORK FURNISHED UNDER SECTION 07600.

SECTION 07620 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA, SHOP DRAWINGS, AND SAMPLES.
PART 2 - PRODUCTS
2.1 SHEET METAL
A. GALVANIZED STEEL SHEET: ASTM A 653/A 653M, G90 (Z275), MILL PHOSPHATIZED WHERE INDICATED FOR PAINTING; AT LEAST 0.0396 INCH (1.0 MM) THICK.
2.2 FLASHING AND TRIM
A. FABRICATE SHEET METAL FLASHING AND TRIM TO COMPLY WITH RECOMMENDATIONS OF SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" THAT APPLY TO THE DESIGN, DIMENSIONS, METAL, AND OTHER CHARACTERISTICS OF THE ITEM INDICATED.
B. COIL-COAT GALVANIZED STEEL SHEET WITH 2-COAT FLUOROPOLYMER HYLAR 5000 OR KYNAR 500 FINISH.
C. FINISH ALUMINUM GUTTERS, DOWNSPOUTS, AND SIMILAR EXPOSED UNITS WITH BAKED-ON, ACRYLIC SHOP FINISH (COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD SELECTIONS); 1.0-MIL (0.025-MM) DRY FILM THICKNESS.
2.3 ACCESSORIES
A. SOLDER: ASTM B 32, GRADE SN50.
B. SOLDER FOR STAINLESS STEEL: ASTM B 32, GRADE SN60.
C. ASPHALT MASTIC: SSPC-PAINT 12, ASBESTOS FREE, SOLVENT TYPE.
D. ROOFING CEMENT: ASTM D 4586, TYPE I, ASBESTOS FREE, ASPHALT BASED.
PART 3 - EXECUTION
3.1 INSTALLATION
A. COMPLY WITH SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL." ALLOW FOR THERMAL EXPANSION; SET TRUE TO LINE AND LEVEL. INSTALL WORK WITH LAPS, JOINTS, AND SEAMS PERMANENTLY WATERTIGHT AND WEATHERPROOF; CONCEAL FASTENERS WHERE POSSIBLE.
1. ROOF-EDGE FLASHINGS: SECURE METAL FLASHINGS AT ROOF EDGES ACCORDING TO FM LOSS PREVENTION DATA SHEET 1-49 FOR SPECIFIED WIND ZONE.
B. SEALED JOINTS: FORM NONEXPANSION, BUT MOVABLE, JOINTS IN METAL TO ACCOMMODATE ELASTOMERIC SEALANT TO COMPLY WITH SMACNA STANDARDS.
C. FABRICATE NONMOVING SEAMS IN SHEET METAL WITH FLAT-LOCK SEAMS.
1. CLEAN SURFACES TO BE SOLDERED, REMOVING OILS AND FOREIGN MATTER. PRE-TIN EDGES OF SHEETS TO BE SOLDERED TO A WIDTH OF 1-1/2 INCHES (38 MM), UNLESS PRE-TINNED SURFACE WOULD SHOW IN FINISHED WORK.
D. SEPARATIONS: SEPARATE NONCOMPATIBLE METALS OR CORROSIVE SUBSTRATES WITH A COATING OF ASPHALT MASTIC OR OTHER PERMANENT SEPARATION.
END OF SECTION 07620

SECTION 07710 - MANUFACTURED ROOF SPECIALTIES

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA, SHOP DRAWINGS, AND COLOR SAMPLES.
B. PROVIDE PRODUCTS THAT COMPLY WITH APPLICABLE REQUIREMENTS OF SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL," UNLESS OTHERWISE INDICATED.
PART 2 - PRODUCTS
2.1 ROOF SPECIALTIES
A. PAINT GRIP GALVANIZED STEEL COPINGS: SEE DRAWINGS AND PROPOSE MANUF. FOR OWNERS REP. APPROVAL.
B. PAINT GRIP GALVANIZED STEEL FASCIA: SEE DRAWINGS AND PROPOSE MANUF. FOR OWNERS REP. APPROVAL.
C. PAINT GRIP GALVANIZED STEEL GRAVEL STOPS: SEE DRAWINGS AND PROPOSE MANUF. FOR OWNERS REP. APPROVAL.
D. PAINT GRIP GALVANIZED STEEL GUTTERS AND DOWNSPOUTS: SEE DRAWINGS AND PROPOSE MANUF. FOR OWNERS REP. APPROVAL.
E. PAINT GRIP GALVANIZED STEEL SHEET: GALVANIZED STEEL SHEET, ASTM A 653/A 653M, G90 (Z275), 0.028 INCH (0.7 MM) THICK,; PREPAINTED WITH 2-COAT, COMPOSED OF INHIBITIVE PRIMER.
PART 3 - EXECUTION
3.1 INSTALLATION
A. COORDINATE WITH INSTALLATION OF ROOF DECKS AND OTHER SUBSTRATES TO PRODUCE A WATERTIGHT ASSEMBLY CAPABLE OF WITHSTANDING INWARD AND OUTWARD LOADING PRESSURES, AND THERMAL AND LATERAL LOADS.
B. COAT BACK SIDE OF ALL ROOF SPECIALTIES WITH BITUMINOUS COATING WHERE THEY WILL CONTACT WOOD, FERROUS METAL, OR CEMENTITIOUS CONSTRUCTION.
C. EXPANSION PROVISIONS: INSTALL RUNNING LENGTHS TO ALLOW CONTROLLED EXPANSION FOR MOVEMENT OF METAL COMPONENTS, TO PREVENT WATER LEAKAGE, DEFORMATION, OR DAMAGE.
END OF SECTION 07710

SECTION 07720 - ROOF ACCESSORIES

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA, SHOP DRAWINGS, AND COLOR SAMPLES.
PART 2 - PRODUCTS
2.1 MATERIALS
A. ALUMINUM SHEET: ASTM B 209 (ASTM B 209M), ALCLAD ALLOY 3005H25, OR ALLOY AND TEMPER REQUIRED TO SUIT FORMING OPERATIONS, WITH MILL FINISH, UNLESS OTHERWISE INDICATED.
B. EXTRUDED ALUMINUM: ASTM B 221 (ASTM B 221M), ALLOY 6063-T52, OR ALLOY AND TEMPER REQUIRED TO SUIT STRUCTURAL AND FINISH REQUIREMENTS, WITH MILL FINISH, UNLESS OTHERWISE INDICATED.
C. GALVANIZED STEEL SHEET: ASTM A 653/A 653M, G90 (Z275).
2.2 ROOF ACCESSORIES
A. ROOF CURBS AND EQUIPMENT SUPPORTS: FABRICATE FROM .0747-INCH- (1.9-MM-) THICK, GALVANIZED STRUCTURAL STEEL; FACTORY PRIMED AND PREPARED FOR PAINTING WITH WELDED OR SEALED MECHANICAL CORNER JOINTS.
1. PROVIDE UNITS WITH CANT STRIPS AND BASE PROFILE COORDINATED WITH ROOF INSULATION THICKNESS AND ROOF DECK SLOPE.
2. PROVIDE PRESERVATIVE-TREATED WOOD NAILERS AT TOPS OF CURBS.
3. PROVIDE MANUFACTURER'S STANDARD RIGID OR SEMIRIGID INSULATION.
4. SEE DRAWINGS AND PROPOSE FOR OWNERS REP. APPROVAL.
B. LOW-PROFILE GRAVITY VENTILATORS: FABRICATE FROM GALVANIZED STEEL SHEET WITH HIGH-PERFORMANCE ORGANIC FINISH.
1. PROVIDE UNITS WITH INTEGRAL DOUBLE-WALL CURB, WITH MINIMUM 1-INCH- (25-MM-) THICK, GLASS-FIBER BOARD INSULATION, AND WITH MINIMUM 3-INCH (75-MM) ROOF FLANGES.
2. PROVIDE BIRD SCREENS FABRICATED FROM 1/2-INCH- (13-MM-) SQUARE MESH, 0.062-INCH- (1.6-MM-) DIAMETER, STAINLESS-STEEL WIRE.
3. SEE DRAWINGS, PROPOSE FOR OWNERS REP. APPROVAL.
C. RIDGE VENT: HIGH-DENSITY POLYPROPYLENE, NONWOVEN MODIFIED POLYESTER, OR OTHER UV-STABILIZED PLASTIC DESIGNED TO BE INSTALLED UNDER ASPHALT SHINGLES AT RIDGE.
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALLATION: UNLESS OTHERWISE INDICATED, INSTALL ROOF ACCESSORY ITEMS ACCORDING TO CONSTRUCTION DETAILS OF NRCA'S "ROOFING AND WATERPROOFING MANUAL." COORDINATE WITH INSTALLATION OF ROOF DECK, VAPOR BARRIERS, ROOF INSULATION, ROOFING, AND FLASHING TO ENSURE COMBINED ELEMENTS ARE SECURE, WATERPROOF, AND WEATHERTIGHT.
END OF SECTION 07720

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. SILICONE JOINT SEALANTS.
2. URETHANE JOINT SEALANTS.
3. LATEX JOINT SEALANTS.
1.2 SUBMITTALS
A. PRODUCT DATA: FOR EACH JOINT-SEALANT PRODUCT INDICATED.
1. FOR SEALANTS AND SEALANT PRIMERS USED INSIDE THE WEATHERPROOFING SYSTEM, PROVIDE PRINTED STATEMENT OF VOC CONTENT.
B. SAMPLES: FOR EACH KIND AND COLOR OF JOINT SEALANT REQUIRED.
C. JOINT-SEALANT SCHEDULE: INCLUDE THE FOLLOWING INFORMATION:
1. JOINT-SEALANT APPLICATION, JOINT LOCATION, AND DESIGNATION.
2. JOINT-SEALANT MANUFACTURER AND PRODUCT NAME.
3. JOINT-SEALANT FORMULATION.
4. JOINT-SEALANT COLOR.
D. PRODUCT TEST REPORTS.
E. FIELD-ADHESION TEST REPORTS.
F. WARRANTIES.
1.3 WARRANTY
A. SPECIAL INSTALLER'S WARRANTY: ORIGINAL STATEMENT ON INSTALLER'S LETTERHEAD IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE JOINT SEALANTS THAT DEMONSTRATE DETERIORATION OR FAILURE WITHIN WARRANTY PERIOD SPECIFIED. OF PROJECTS OF SIMILAR SCOPE.
1. WARRANTY PERIOD: TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
B. SPECIAL MANUFACTURER'S WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH JOINT SEALANT MANUFACTURER AGREES TO FURNISH JOINT SEALANTS TO REPAIR OR REPLACE THOSE THAT DEMONSTRATE DETERIORATION OR FAILURE UNDER NORMAL USE WITHIN WARRANTY PERIOD SPECIFIED.
1. WARRANTY PERIOD FOR SILICONE SEALANTS: 20 YEARS FOLLOWING DATE OF SUBSTANTIAL COMPLETION.
C. WARRANTY CONDITIONS: SPECIAL WARRANTIES EXCLUDE DETERIORATION OR FAILURE OF JOINT SEALANTS IN NORMAL USE DUE TO STRUCTURAL MOVEMENT RESULTING IN STRESSES ON JOINT SEALANTS EXCEEDING SEALANT MANUFACTURER'S WRITTEN SPECIFICATIONS, JOINT SUBSTRATE DETERIORATION, MECHANICAL DAMAGE, OR NORMAL ACCUMULATION OF DIRT OR OTHER CONTAMINANTS.
PART 2 - PRODUCTS
2.2 MATERIALS, GENERAL
A. VOC CONTENT OF INTERIOR SEALANTS: PROVIDE SEALANTS AND SEALANT PRIMERS FOR USE INSIDE THE WEATHERPROOFING SYSTEM THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, PART 59, SUBPART D (EPA METHOD 24):
1. ARCHITECTURAL SEALANTS: 250 G/L.
2. SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L.
3. SEALANT PRIMERS FOR POROUS SUBSTRATES: 775 G/L.
B. LIQUID-APPLIED JOINT SEALANTS: COMPLY WITH ASTM C 920 AND OTHER REQUIREMENTS INDICATED FOR EACH LIQUID-APPLIED JOINT SEALANT SPECIFIED, INCLUDING THOSE REFERENCING ASTM C 920 CLASSIFICATIONS FOR TYPE, GRADE, CLASS, AND USES RELATED TO EXPOSURE AND JOINT SUBSTRATES.
C. STAIN-TEST-RESPONSE CHARACTERISTICS: WHERE SEALANTS ARE SPECIFIED TO BE NONSTAINING TO POROUS SUBSTRATES, PROVIDE PRODUCTS THAT HAVE UNDERGONE TESTING ACCORDING TO ASTM C 1248 AND HAVE NOT STAINED POROUS JOINT SUBSTRATES INDICATED FOR PROJECT.
D. SUITABILITY FOR CONTACT WITH FOOD: WHERE SEALANTS ARE INDICATED FOR JOINTS THAT WILL COME IN REPEATED CONTACT WITH FOOD, PROVIDE PRODUCTS THAT COMPLY WITH 21 CFR 177.2600.
2.3 SILICONE JOINT SEALANTS
A. MILDEW-RESISTANT SILICONE JOINT SEALANT: ASTM C 920.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
A. DOW CORNING CORPORATION.
B. GE ADVANCED MATERIALS - SILICONES.
C. PECORA CORPORATION.
D. SIKA CORPORATION; CONSTRUCTION PRODUCTS DIVISION.
E. TREMCO INCORPORATED.
2. TYPE: SINGLE COMPONENT (S).
3. GRADE: NONSAG (NS).
4. CLASS: 25.
5. USES RELATED TO EXPOSURE: NONTRAFFIC (NT).
2.4 URETHANE JOINT SEALANTS
A. URETHANE JOINT SEALANT - HORIZONTAL TRAFFIC JOINTS : ASTM C 920.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
A. BOSTIK, INC.
B. PECORA CORPORATION.
C. SIKA CORPORATION; CONSTRUCTION PRODUCTS DIVISION.
D. TREMCO INCORPORATED.
2. TYPE: MULTICOMPONENT (M).
3. GRADE: POURABLE (P).
4. CLASS: 25.
5. USES RELATED TO EXPOSURE: TRAFFIC (T).
B. URETHANE JOINT SEALANT - VERTICAL AND HORIZONTAL NON-TRAFFIC JOINTS : ASTM C 920.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
A. BOSTIK, INC.
B. PECORA CORPORATION.
C. SIKA CORPORATION; CONSTRUCTION PRODUCTS DIVISION.
D. TREMCO INCORPORATED.
2. TYPE: MULTICOMPONENT (M).
3. GRADE: NONSAG (NS).
4. CLASS: 25.
5. USES RELATED TO EXPOSURE: NONTRAFFIC (NT).
2.5 LATEX JOINT SEALANTS
A. LATEX JOINT SEALANT: ACRYLIC LATEX OR SILICONIZED ACRYLIC LATEX, ASTM C 834, TYPE OP, GRADE NF.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
A. BOSTIK, INC.
B. PECORA CORPORATION.
C. TREMCO INCORPORATED.
2.6 JOINT SEALANT BACKING
A. CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, TYPE C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN), TYPE O (OPEN-CELL MATERIAL), TYPE B (BICELLULAR MATERIAL WITH A SURFACE SKIN) OR ANY OF THE PRECEDING TYPES, AS APPROVED IN WRITING BY JOINT-SEALANT MANUFACTURER FOR JOINT APPLICATION INDICATED, AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.
B. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER.
2.7 MISCELLANEOUS MATERIALS
A. PRIMER: MATERIAL RECOMMENDED BY JOINT-SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED, AS DETERMINED FROM PRECONSTRUCTION JOINT-SEALANT-SUBSTRATE TESTS AND FIELD TESTS.
B. CLEANERS FOR NONPOROUS SURFACES: CHEMICAL CLEANERS ACCEPTABLE TO MANUFACTURERS OF SEALANTS AND SEALANT BACKING MATERIALS.
C. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.
PART 3 - EXECUTION
3.1 PREPARATION
A. SURFACE CLEANING OF JOINTS: CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. REMOVE LAITANCE AND FORM-RELEASE AGENTS FROM CONCRETE.
2. CLEAN NONPOROUS JOINT SUBSTRATE SURFACES WITH CHEMICAL CLEANERS OR OTHER MEANS THAT DO NOT STAIN, HARM SUBSTRATES, OR LEAVE RESIDUES CAPABLE OF INTERFERING WITH ADHESION OF JOINT SEALANTS.
B. JOINT PRIMING: PRIME JOINT SUBSTRATES WHERE RECOMMENDED BY JOINT-SEALANT MANUFACTURER OR AS INDICATED BY PRECONSTRUCTION JOINT-SEALANT-SUBSTRATE TESTS OR PRIOR EXPERIENCE. APPLY PRIMER TO COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS. CONFINE PRIMERS TO AREAS OF JOINT- SEALANT BOND; DO NOT ALLOW SPILLAGE OR MIGRATION ONTO ADJOINING SURFACES.
C. MASKING TAPE: USE MASKING TAPE WHERE REQUIRED TO PREVENT CONTACT OF SEALANT OR PRIMER WITH ADJOINING SURFACES THAT OTHERWISE WOULD BE PERMANENTLY STAINED OR DAMAGED BY SUCH CONTACT OR BY CLEANING METHODS REQUIRED TO REMOVE SEALANT SMEARS. REMOVE TAPE IMMEDIATELY AFTER TOOLING WITHOUT DISTURBING JOINT SEAL.
3.2 INSTALLATION
A. SEALANT INSTALLATION STANDARD: COMPLY WITH RECOMMENDATIONS IN ASTM C 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.
B. INSTALL SEALANT BACKINGS OF KIND INDICATED TO SUPPORT SEALANTS DURING APPLICATION AND AT POSITION REQUIRED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.
1. DO NOT LEAVE GAPS BETWEEN ENDS OF SEALANT BACKINGS.
2. DO NOT STRETCH, TWIST, PUNCTURE, OR TEAR SEALANT BACKINGS.
3. REMOVE ABSORBENT SEALANT BACKINGS THAT HAVE BECOME WET BEFORE SEALANT APPLICATION AND REPLACE THEM WITH DRY MATERIALS.
C. INSTALL BOND-BREAKER TAPE BEHIND SEALANTS WHERE SEALANT BACKINGS ARE NOT USED BETWEEN SEALANTS AND BACKS OF JOINTS.
D. INSTALL SEALANTS USING PROVEN TECHNIQUES THAT COMPLY WITH THE FOLLOWING AND AT THE SAME TIME BACKINGS ARE INSTALLED:
1. PLACE SEALANTS SO THEY DIRECTLY CONTACT AND FULLY WET JOINT SUBSTRATES.
2. COMPLETELY FILL RECESSES IN EACH JOINT CONFIGURATION.
3. PRODUCE UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.
E. TOOLING OF NONSAG SEALANTS: IMMEDIATELY AFTER SEALANT APPLICATION AND BEFORE SKINNING OR CURING BEGINS, TOOL SEALANTS ACCORDING TO REQUIREMENTS SPECIFIED IN SUBPARAGRAPHS BELOW TO FORM SMOOTH, UNIFORM BEADS OF CONFIGURATION INDICATED; TO ELIMINATE AIR POCKETS; AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT.
1. REMOVE EXCESS SEALANT FROM SURFACES ADJACENT TO JOINTS.
2. USE TOOLING AGENTS THAT ARE APPROVED IN WRITING BY SEALANT MANUFACTURER AND THAT DO NOT DISCOLOR SEALANTS OR ADJACENT SURFACES.
3. PROVIDE CONCAVE JOINT PROFILE PER FIGURE 8A IN ASTM C 1193, UNLESS OTHERWISE INDICATED.
F. CLEAN OFF EXCESS SEALANT OR SEALANT SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED IN WRITING BY MANUFACTURERS OF JOINT SEALANTS AND OF PRODUCTS IN WHICH JOINTS OCCUR.
3.3 JOINT-SEALANT SCHEDULE
A. JOINT-SEALANT APPLICATION: EXTERIOR JOINTS IN HORIZONTAL TRAFFIC SURFACES.
1. JOINT LOCATIONS:
A. ISOLATION AND CONTRACTION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.
2. JOINT SEALANT: URETHANE.
3. JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
B. JOINT-SEALANT APPLICATION: EXTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NON-TRAFFIC SURFACES.
1. JOINT LOCATIONS:
A. JOINTS BETWEEN PLANT-PRECAST ARCHITECTURAL CONCRETE UNITS.
B. CONTROL AND EXPANSION JOINTS IN UNIT MASONRY.
C. JOINTS IN SIDING, SOFFITS AND EXTERIOR TRIM.
D. JOINTS BETWEEN DIFFERENT MATERIALS LISTED ABOVE.
E. PERIMETER JOINTS BETWEEN MATERIALS LISTED ABOVE AND FRAMES OF DOORS, WINDOWS AND LOUVERS.
F. OTHER JOINTS AS INDICATED.
2. JOINT SEALANT: URETHANE.
3. JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
C. JOINT-SEALANT APPLICATION: INTERIOR JOINTS IN HORIZONTAL TRAFFIC SURFACES.
1. JOINT LOCATIONS:
A. ISOLATION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.
2. JOINT SEALANT: URETHANE.
3. JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
D. JOINT-SEALANT APPLICATION: INTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NONTRAFFIC SURFACES.
1. JOINT LOCATIONS:
A. CONTROL AND EXPANSION JOINTS ON EXPOSED INTERIOR SURFACES OF EXTERIOR WALLS.
B. PERIMETER JOINTS OF EXTERIOR OPENINGS WHERE INDICATED.
C. VERTICAL JOINTS ON EXPOSED SURFACES OF INTERIOR UNIT MASONRY WALLS.
D. PERIMETER JOINTS BETWEEN INTERIOR WALL SURFACES AND FRAMES OF INTERIOR DOORS AND WINDOWS.
2. JOINT SEALANT: LATEX.
3. JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
E. JOINT-SEALANT APPLICATION: MILDEW-RESISTANT INTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NONTRAFFIC SURFACES.
1. JOINT SEALANT LOCATION:
A. JOINTS BETWEEN PLUMBING FIXTURES AND ADJOINING WALLS, FLOORS, AND COUNTERS.
B. TILE CONTROL AND EXPANSION JOINTS WHERE INDICATED.
2. JOINT SEALANT: SILICONE.
3. JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
END OF SECTION 079200

SECTION 08110 - STEEL DOORS AND FRAMES

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA AND DOOR SCHEDULE.
B. COMPLY WITH ANSI/SDI 100.
C. FIRE-RATED DOOR ASSEMBLIES: NFPA 80, TESTED PER ASTM E 152, AND LABELED AND LISTED BY UL, ITS, OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
PART 2 - PRODUCTS
2.1 MATERIALS
A. HOT-ROLLED STEEL SHEETS: ASTM A 569/A 569M.
B. COLD-ROLLED STEEL SHEETS: ASTM A 366/A 366M OR ASTM A 620/A 620M.
C. GALVANIZED STEEL SHEETS: ASTM A 653/A 653M, COMMERCIAL STEEL, OR ASTM A 642/A 642M, DRAWING QUALITY, WITH A60 OR G60 (ZF180 OR Z180) COATING DESIGNATION, MILL PHOSPHATIZED.
2.2 STEEL DOORS AND FRAMES
A. PROVIDE STEEL DOORS AND FRAMES MANUFACTURED BY STEELCRAFT, CURRIES, CECO OR ARCHITECT APPROVED EQUIVALENT
B. STEEL DOORS: 1-3/4-INCH- (44-MM-) THICK OF MATERIALS AND ANSI/SDI 100 GRADES AND MODELS INDICATED ON DRAWINGS, SCHEDULES OR IF NOT SHOWN - PROPOSE FOR OWNERS REP. APPROVAL.
1. INTERIOR DOORS: GRADE II, HEAVY-DUTY, MODEL 2, SEAMLESS DESIGN, MINIMUM 0.0478-INCH- (1.2-MM-) THICK, COLD-ROLLED STEEL SHEET FACES.
2. EXTERIOR DOORS: GRADE III, EXTRA HEAVY-DUTY, MODEL 2, SEAMLESS DESIGN, MINIMUM 0.0635-INCH- (1.6-MM-) THICK, GALVANIZED STEEL SHEET FACES.
C. DOOR SILENCERS: THREE ON STRIKE JAMBS OF SINGLE-DOOR FRAMES AND TWO ON HEADS OF DOUBLE-DOOR FRAMES.
D. PLASTER GUARDS: PROVIDE WHERE MORTAR MIGHT OBSTRUCT HARDWARE OPERATION AND TO CLOSE OFF INTERIOR OF OPENINGS.
E. FABRICATE STEEL FRAMES TO BE RIGID, NEAT IN APPEARANCE, AND FREE FROM DEFECTS, WARP, OR BUCKLE.
1. EXTERIOR FRAMES: FABRICATE WITH MITERED OR COPED AND CONTINUOUSLY WELDED CORNERS, FORMED FROM 0.0635-INCH- (1.6-MM-) THICK, GALVANIZED STEEL SHEET.
F. PREPARE DOORS AND FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE ACCORDING TO SDI 107.
G. PRIME COAT: GALVANIZED STEEL, FS TT-P-641, TYPE II ZINC-DUST, ZINC-OXIDE PRIMER.
PART 3 - EXECUTION
3.1 INSTALLATION
A. PLACE STEEL FRAMES TO COMPLY WITH SDI 105.
B. INSTALL STEEL DOORS ACCURATELY IN FRAMES, WITHIN CLEARANCES SPECIFIED IN ANSI/SDI 100.
1. FIRE-RATED DOORS: INSTALL WITH CLEARANCES SPECIFIED IN NFPA 80.
2. SMOKE-CONTROL DOORS: COMPLY WITH NFPA 105.
C. PRIME COAT REPAIR: IMMEDIATELY AFTER ERECTION, SAND SMOOTH ANY RUSTED OR DAMAGED AREAS OF PRIME COAT AND REPAIR FINISH WITH COMPATIBLE AIR-DRYING PRIMER.
END OF SECTION 08110

SECTION 08411 - ALUMINUM FRAMED STOREFRONTS

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. STRUCTURAL PERFORMANCE: PROVIDE SYSTEMS, INCLUDING ANCHORAGE, CAPABLE OF WITHSTANDING MIN. CODE COMPLIANT LOADS.
1. MAIN-FRAMING-MEMBER DEFLECTION: LIMITED TO 1/175 OF CLEAR SPAN WITH A SAFETY FACTOR OF 1.65
2. STRUCTURAL-TESTING: SYSTEMS TESTED ACCORDING TO ASTM E 330 AT 150 SAFETY FACTOR> PERCENT OF INWARD AND OUTWARD WIND-LOAD DESIGN PRESSURES DO NOT EVIDENCE MATERIAL FAILURES, STRUCTURAL DISTRESS, DEFLECTION FAILURES, OR PERMANENT DEFORMATION OF MAIN FRAMING MEMBERS EXCEEDING 0.2 PERCENT OF CLEAR SPAN.
B. AIR INFILTRATION: LIMITED TO 0.06 CFM/SQ. FT. (0.3 L/S PER SQ. M) OF SYSTEM SURFACE AREA WHEN TESTED ACCORDING TO ASTM E 283 AT A STATIC-AIR-PRESSURE DIFFERENCE OF THE INDUSTRY STD.
C. WATER PENETRATION: SYSTEMS DO NOT EVIDENCE WATER LEAKAGE WHEN TESTED ACCORDING TO ASTM E 331 AT MINIMUM DIFFERENTIAL PRESSURE OF 20 PERCENT OF INWARD ACTING WIND LOAD DESIGN PRESSURE BUT NOT LESS THAN THE INDUSTRY STANDARD (8 PERCENT).
D. AVERAGE U-VALUE: NOT MORE THAN AS INDICATED ON MECH. PLANS AND PER AAMA 1503.1.
E. SUBMITTALS: PRODUCT DATA, SHOP DRAWINGS, AND COLOR SAMPLES.
1. FOR ENTRANCE SYSTEMS, INCLUDE HARDWARE SCHEDULE AND LOCATIONS.
PART 2 - PRODUCTS
2.1 ALUMINUM-FRAMED STOREFRONTS
A. PROVIDE YKK YES 45 FI SERIES (NON-IMPACT RATED) W/ 2" X 4 1/2"" FRAME COMPONENTS OR ARCHITECT APPROVED EQUAL
B. ALUMINUM: ASTM B 209 (ASTM B 209M) SHEET; ASTM B 221 (ASTM B 221M) EXTRUSIONS.
C. GLAZING: REFER TO NOTES ON DRAWINGS.
D. SEALANTS AND JOINT FILLERS: FOR JOINTS AT PERIMETER OF SYSTEMS AS SPECIFIED IN DIVISION 7 SECTION "JOINT SEALANTS."
E. DOORS: 1 3/4-INCH (54-MM) THICK GLAZED DOORS WITH MINIMUM 0.125-INCH (3.2-MM) THICK, EXTRUDED TUBULAR RAIL AND MEDIUM STILE MEMBERS, MECHANICALLY FASTENED CORNERS WITH REINFORCING BRACKETS THAT ARE DEEP PENETRATION AND FILLET WELDED OR THAT INCORPORATE CONCEALED TIE-RODS, SNAP-ON EXTRUDED-ALUMINUM GLAZING STOPS, AND PREFORMED GASKETS.
1. INTERIOR DOORS: PROVIDE ANSI/BHMA A156.16 SILENCERS, THREE ON STRIKE JAMB OF SINGLE-DOOR FRAMES AND TWO ON HEAD OF DOUBLE-DOOR FRAMES.
2. EXTERIOR DOORS: PROVIDE COMPRESSION WEATHER STRIPPING AT FIXED STOPS. AT OTHER LOCATIONS, PROVIDE SLIDING WEATHER STRIPPING RETAINED IN ADJUSTABLE STRIP MORTISED INTO DOOR EDGE.
3. HARDWARE: SEE HARDWARE SCHEDULE ON DRAWINGS.
F. FASTENERS AND ACCESSORIES: COMPATIBLE WITH ADJACENT MATERIALS, CORROSION-RESISTANT, NONSTAINING, AND NONBLEEDING. USE CONCEALED FASTENERS EXCEPT FOR APPLICATION OF DOOR HARDWARE.
G. FABRICATION: FABRICATE FRAMING IN PROFILES INDICATED FOR FLUSH GLAZING (WITHOUT PROJECTING STOPS). PROVIDE SUBFRAMES AND REINFORCING OF TYPES INDICATED OR, IF NOT INDICATED, AS REQUIRED FOR A COMPLETE SYSTEM. FACTORY ASSEMBLE COMPONENTS TO GREATEST EXTENT POSSIBLE. DISASSEMBLE COMPONENTS ONLY AS NECESSARY FOR SHIPMENT AND INSTALLATION.
1. DOOR FRAMING: REINFORCE TO SUPPORT IMPOSED LOADS. FACTORY ASSEMBLE DOOR AND FRAME UNITS AND FACTORY INSTALL HARDWARE TO GREATEST EXTENT POSSIBLE. REINFORCE DOOR AND FRAME UNITS FOR HARDWARE INDICATED. CUT, DRILL, AND TAP FOR FACTORY-INSTALLED HARDWARE BEFORE FINISHING COMPONENTS. CLASS I ANODIC FINISHES BELOW ARE HEAVIER THAN CLASS II FINISHES AND ARE RECOMMEND FOR EXTERIOR APPLICATIONS.
H. ALUMINUM FINISH: COMPLY WITH NAAMMS "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS." AS PER DRAWINGS AND AS PER OWNERS REP. REQUIREMENTS.
1. COLOR: SEE DRAWINGS.
PART 3 - EXECUTION
3.1 INSTALLATION
A. ISOLATE METAL SURFACES IN CONTACT WITH INCOMPATIBLE METAL OR CORROSIVE SUBSTRATES, INCLUDING WOOD, BY PAINTING CONTACT SURFACES WITH BITUMINOUS COATING OR PRIMER, OR BY APPLYING SEALANT OR TAPE RECOMMENDED BY MANUFACTURER.
B. INSTALL COMPONENTS TO PROVIDE A WEATHERPROOF SYSTEM.
C. INSTALL FRAMING COMPONENTS TRUE IN ALIGNMENT WITH ESTABLISHED LINES AND GRADES TO THE FOLLOWING TOLERANCES:
1. VARIATION FROM PLANE: LIMIT TO 1/8 INCH IN 12 FEET (3 MM IN 3.7 M); 1/4 INCH (6 MM) OVER TOTAL LENGTH.
2. ALIGNMENT: FOR SURFACES ABUTTING IN LINE, LIMIT OFFSET TO 1/16 INCH (1.5 MM). FOR SURFACES MEETING AT CORNERS, LIMIT OFFSET TO 1/32 INCH (0.8 MM).
3. DIAGONAL MEASUREMENTS: LIMIT DIFFERENCE BETWEEN DIAGONAL MEASUREMENTS TO 1/8 INCH (3 MM).
D. INSTALL DOORS WITHOUT WARP OR RACK. ADJUST DOORS AND HARDWARE TO PROVIDE TIGHT FIT AT CONTACT POINTS AND SMOOTH OPERATION.
END OF SECTION 08411

SECTION 08710 - DOOR HARDWARE

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: HARDWARE SCHEDULE.
B. DELIVER KEYS TO OWNER.
C. FOR FIRE-RATED OPENINGS PROVIDE HARDWARE TESTED AND LISTED BY UL OR FM (NFPA 80). ON EXIT DEVICES PROVIDE UL OR FM LABEL INDICATING "FIRE EXIT HARDWARE."
PART 2 - PRODUCTS
2.1 HARDWARE
A. HINGES: PROVIDE THE FOLLOWING:
1. STAINLESS-STEEL OR BRASS/BRONZE HINGES WITH STAINLESS-STEEL PINS FOR EXTERIOR.
2. NONREMOVABLE HINGE PINS FOR EXTERIOR AND PUBLIC INTERIOR EXPOSURE.
3. THREE HINGES FOR 1-3/4-INCH- (45-MM-) THICK DOORS 90 INCHES (2300 MM) OR LESS IN HEIGHT; FOUR HINGES FOR DOORS MORE THAN 90 INCHES (2300 MM) IN HEIGHT.
B. LOCKSETS AND LATCHSETS AS FOLLOWS:
1. BHMA A156.2, SERIES 4000, GRADE (AS PER OWNERS REP.) FOR BORED LOCKS AND LATCHES.
2. BHMA A156.3, GRADE 1 FOR EXIT DEVICES.
3. BHMA A156.5, GRADE (AS PER OWNERS REP.) FOR AUXILIARY LOCKS.
4. BHMA A156.12, SERIES 5000, GRADE (AS PER OWNERS REP.) FOR INTERCONNECTED LOCKS AND LATCHES.
5. BHMA A156.13, SERIES 1000, GRADE (AS PER OWNERS REP.) FOR MORTISE LOCKS AND LATCHES.
6. LEVER HANDLES ON LOCKSETS AND LATCHSETS, (AS PER OWNERS REP.).
7. PROVIDE TRIM ON EXIT DEVICES MATCHING LOCKSETS.
C. KEY LOCKS TO OWNER'S NEW MASTER-KEY SYSTEM.
1. CYLINDERS WITH SIX-PIN TUMBLERS AND REMOVABLE CORES.
2. PROVIDE CYLINDERS FOR STOREFRONT DOORS, AND OTHER LOCKING DOORS THAT DO NOT REQUIRE OTHER HARDWARE.
3. PROVIDE CONSTRUCTION KEYING.
4. PROVIDE KEY CONTROL SYSTEM, INCLUDING CABINET.
D. CLOSERS: PROVIDE THE FOLLOWING:
1. MOUNT CLOSERS ON INTERIOR SIDE (ROOM SIDE) OF DOOR OPENING. PROVIDE REGULAR-ARM, PARALLEL-ARM, OR TOP-JAMB-MOUNTED CLOSERS AS NECESSARY.
2. ADJUSTABLE DELAYED OPENING (ACCESSIBLE TO THE DISABLED) FEATURE ON CLOSERS.
E. PROVIDE WALL STOPS OR FLOOR STOPS FOR DOORS WITHOUT CLOSERS.
F. PROVIDE HARDWARE FINISHES AS FOLLOWS:
1. HINGES: MATCHING FINISH OF LOCKSET/LATCHSET.
2. LOCKSETS, LATCHSETS, AND EXIT DEVICES: SATIN CHROME PLATED.
3. CLOSERS: MATCHING FINISH OF LOCKSET/LATCHSET.
4. OTHER HARDWARE: MATCHING FINISH OF LOCKSET/LATCHSET.
PART 3 - EXECUTION
3.1 INSTALLATION
A. MOUNT HARDWARE IN LOCATIONS RECOMMENDED BY THE DOOR AND HARDWARE INSTITUTE, UNLESS OTHERWISE INDICATED.
3.2 HARDWARE SCHEDULE
A. HARDWARE - SEE PLANS.
END OF SECTION 08710

SECTION 08800 - GLAZING

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA AND 12-INCH- (300-MM-) SQUARE SAMPLES.
B. COMPLY WITH WRITTEN INSTRUCTIONS OF GLASS PRODUCT MANUFACTURERS; GANA'S "GLAZING MANUAL;" AND PUBLICATIONS OF GANA, AAMA, AND SIGMA AS APPLICABLE TO PRODUCTS INDICATED, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
C. GLASS AND GLAZING WORK INCLUDES STOREFRONT AND ENTRANCE GLAZING (NOT INDICATED AS PRE-GLAZED, HURRICANE RESISTANT GLASS.
1.2 SYSTEM PERFORMANCE
A. PROVIDE GLASS AND GLAZING THAT WILL WITHSTAND NORMAL TEMPERATURE CHANGES, WIND LOADING, IMPACT LOADING, ETC. WITHOUT BREAKAGE OF GLASS, FAILURE OF SEALS AND LOSS OF AIR-TIGHTNESS AND WATER-TIGHTNESS
1.3 QUALITY ASSURANCE
A. COMPLY WITH RECOMMENDATIONS OF THE FLAT GLASS MARKETING ASSOCIATION "GLAZING MANUAL" AND "SEALANT MANUAL"
B. COMPLY WITH INSULATED GLASS MANUFACTURER'S ASSOCIATION (SIGMA) #65-7-2
C. HURRICANE / IMPACT RESISTANT GLAZING SYSTEM: MUST PASS DADE AND BROWARD COUNTY HURRICANE CYCLING AND IMPACT TESTS AND COMPLY WITH ANSI Z97.1 AND CPSC CATEGORY II
D. WARRANTY: PROVIDE WRITTEN WARRANTY COVERING MANUFACTURER DEFECTS, SIGNED BY THE MANUFACTURER, FOR THE PERIODS STATED BELOW AFTER SUBSTANTIAL COMPLETION
1. INSULATED GLASS: MANUFACTURER'S STANDARD TEN-YEAR MINIMUM PERIOD
2. FLOAT GLASS: MANUFACTURER'S STANDARD FIVE-YEAR MINIMUM PERIOD
3. LAMINATED GLASS: MANUFACTURER'S STANDARD FOUR-YEAR MINIMUM PERIOD
PART 2 - PRODUCTS
2.0 MANUFACTURERS
A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ZELEDYNE GLASS PRODUCTS, PPG INDUSTRIES (GLASS GROUP), GUARDIAN INDUSTRIES CORP., VIRACON INC.
B. HURRICANE / IMPACT RESISTANT GLASS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ARCH ALUMINUM AND GLASS CO., INC, GLASSLAM, N.G.I., INSULGARD CORP., INTERPANE, SAFLEX, VIRACON, INC.
2.1 GLASS PRODUCTS
A. CLEAR TEMPERED FLOAT GLASS: GRADE B (FULLY TEMPERED), STYLE I (UNCOATED SURFACES), TYPE I, QUALITY Q3, CLASS I
~~B. INSULATED IMPACT~~
1. BASIS OF DESIGN: 1 5/16" NOMINALLY THICK, INSULATING, LAMINATED, LOW E COATED GLASS AS MANUFACTURED BY VIRACON.
A. EXTERIOR GLASS PLY: 1/4" CLEAR HS OR FT AS REQUIRED BY CODE
B. COATING: VIRACON VE-2M NEUTRAL LOW E ON #2 SURFACE
C. AIRSPACE: 1/2" AIR FILLED, BLACK PAINTED
D. SILICONE: BLACK
E. INTERIOR GLASS PLY 1: 1/4" CLEAR HS
F. INTERLAYER: SELECT KIND AND THICKNESS AS TESTED IN THE COMBINED ASSEMBLY FOR HURRICANE RESISTANCE TO MEET THE CURRENT FLORIDA BUILDING CODE EDITION
G. INTERIOR GLASS PLY 2: 1/4" CLEAR HS
~~2. PERFORMANCE REQUIREMENTS~~
A. VISIBLE LIGHT TRANSMITTANCE 68%
B. EXTERIOR (VIS-OUT) REFLECTANCE 11%
C. INTERIOR (VIS-IN) REFLECTANCE 11%
D. WINTER U-VALUE 0.29
E. SUMMER U-VALUE 0.26
F. SOLAR HEAT GAIN COEFFICIENT 0.37
G. LIGHT TO SOLAR GAIN RATIO 1.84
C. INSULATED NON-IMPACT
1. BASIS OF DESIGN: 1" NOMINALLY THICK, INSULATING, LOW E COATED GLASS AS MANUFACTURED BY VIRACON.
A. EXTERIOR GLASS PLY: 1/4" CLEAR HS OR FT AS REQUIRED BY CODE
B. COATING: VIRACON VE-2M NEUTRAL LOW E ON #2 SURFACE
C. AIRSPACE: 1/2" AIR FILLED, BLACK PAINTED
D. SILICONE: BLACK
E. INTERIOR GLASS PLY 1: 1/4" CLEAR HS OR FT AS REQUIRED BY CODE
2. PERFORMANCE REQUIREMENTS
A. VISIBLE LIGHT TRANSMITTANCE 70%
B. EXTERIOR (VIS-OUT) REFLECTANCE 11%
C. INTERIOR (VIS-IN) REFLECTANCE 12%
D. WINTER U-VALUE 0.29
E. SUMMER U-VALUE 0.26
F. SOLAR HEAT GAIN COEFFICIENT 0.38
G. LIGHT TO SOLAR GAIN RATIO 1.84
D. SINGLE PANEL, NON-IMPACT, CLEAR
1. BASIS OF DESIGN: 1/4" NOMINALLY THICK, LOW E COATED GLASS AS MANUFACTURED BY VIRACON.
A. EXTERIOR GLASS PLY: 1/4" CLEAR HS OR FT AS REQUIRED BY CODE
B COATING: VIRACON ROOM SIDE NEUTRAL LOW E ON #2 SURFACE
2. PERFORMANCE REQUIREMENTS
A. VISIBLE LIGHT TRANSMITTANCE 88 %
B. EXTERIOR (VIS-OUT) REFLECTANCE 7%
C. INTERIOR (VIS-IN) REFLECTANCE 7%
D. WINTER U-VALUE 0.64
E. SUMMER U-VALUE 0.49
F. SOLAR HEAT GAIN COEFFICIENT 0.74
G. LIGHT TO SOLAR GAIN RATIO 1.19
E. IMPACT RESISTANT LAMINATED COATED GLASS:
1. 9/16" VIRACON VLE1-70 LAMINATED COATED GLASS AS MANUFACTURED BY VIRACON.
A. EXTERIOR GLASS PLY: 1/4" CLEAR HS
B. COATING: VLE-70 LOW E ON #2 SURFACE
C. INTERLAYER: SELECT KIND AND THICKNESS AS TESTED IN THE STOREFRONT ASSEMBLY FLORIDA PRODUCT APPROVAL OR MIAMI DADE NOTICE OF ACCEPTANCE FOR HURRICANE PROTECTION
D. INTERIOR GLASS PLY: 1/4" CLEAR HS
2. PERFORMANCE REQUIREMENTS
A. VISIBLE LIGHT TRANSMITTANCE 68%
B. EXTERIOR REFLECTANCE 13%
C. WINTER U-VALUE 0.95
D. SUMMER U-VALUE 0.86
E. SOLAR HEAT GAIN COEFFICIENT 0.43
F. LIGHT TO SOLAR GAIN RATIO 1.58
F. VIRASPAN MONOLITHIC SPANDREL GLASS
1. 1/4" VIRASPAN MONOLITHIC SPANDREL GLASS AS MANUFACTURED BY VIRACON.
A. GLASS PLY: 1/4" CLEAR HEAT TREATED (TEMPER WHERE REQUIRED BY CODE)
B. CERAMIC FRIT: V948 MEDIUM GRAY VIRASPAN CERAMIC PAINT ON #2 SURFACE
2. PERFORMANCE REQUIREMENTS
A. WINTER U-VALUE 1.05
B. SUMMER U-VALUE 1.02
2.2 GLAZING GASKETS / TAPE
A. GLAZING GASKETS: ASTM C864, RESILIENT POLYVINYL CHLORIDE, EXTRUDED SHAPE TO FIT GLAZING CHANNEL RETAINING SLOT; BLACK COLOR.
B. GLAZING TAPE: CLOSED CELL POLYVINYL CHLORIDE FOAM, MAXIMUM WATER ABSORPTION BY VOLUME 2 PERCENT, DESIGNED FOR 25 PERCENT COMPRESSION FOR AIR BARRIER VAPOR RETARDER SEAL, BLACKCOLOR, COILED ON RELEASE PAPER OVER ADHESIVE ON TWO SIDES; WIDTHS REQUIRED FOR SPECIFIC INSTALLATION
C. GLAZING TAPE: BUTYL COMPOUND TAPE WITH INTEGRAL RESILIENT TUBE SPACER, 10 TO 15 SHORE A DUROMETER HARDNESS, BLACK COLOR, COILED ON RELEASE PAPER, WIDTHS REQUIRED FOR SPECIFIC INSTALLATION.
2.3 MISCELLANEOUS GLAZING MATERIALS
A. COMPATIBILITY: ALL MATERIALS SHALL BE COMPATIBLE WITH SURFACES CONTACTED IN INSTALLATION
B. CLEANERS, PRIMERS AND SEALERS: AS RECOMMENDED BY SEALANT/GASKET MANUFACTURER.
C. SETTING BLOCKS: ASTM C 864 NEOPRENE, 80 TO 90 SHORE A DUROMETER HARDNESS; LENGTH 4 INCHES, WIDTH OF GLAZING RABBET SPACE LESS 1/16 INCH, HEIGHT REQUIRED FOR GLAZING METHOD, PANE WEIGHT AND PANE AREA.
D. SPACERS: SHIMS: ASTM C 864: NEOPRENE, 50 TO 60 SHORE A DUROMETER HARDNESS; LENGTH 3 INCHES, ONE HALF HEIGHT OF GLAZING STOP, THICKNESS REQUIRED FOR APPLICATION, ONE FACE SELF-ADHESIVE.
E. GLAZING SPLINES: ASTM C 864, RESILIENT POLYVINYL CHLORIDE, EXTRUDED SHAPE TO FIT GLAZING CHANNEL RETAINING SLOT; BLACK COLOR
PART 3 - EXECUTION
3.1 PREPARATION / INSTALLATION
A. CLEAN GLAZING / FRAMING MEMBERS IMMEDIATELY BEFORE GLAZING TO REMOVE ALL DETRIMENTAL SUBSTANCES
B. ADJUST GLAZING CHANNEL DIMENSIONS AS REQUIRED BY CONDITIONS FOR PROPER BITE, EDGE/FACE CLEARANCES, AND SEAL THICKNESS
C. INSTALL PROPERLY SIZED SETTING BLOCKS IN SILL RABBET AT ONE QUARTER OF GLASS WIDTH FROM EACH CORNER, BUT NOT CLOSER THAN 6 INCHES UNLESS NOTED. SET BLOCKS IN THIN COURSE OF SEALANT SUITABLE FOR HEEL BEAD USE.
D. PROVIDE SPACERS AND EDGE BLOCKS, CORRECTLY SIZED FOR CONDITIONS. PROVIDE 1/8 INCH MINIMUM BITE OF SPACERS ON GLASS.
E. MITER WEDGE-SHAPED GASKETS AT CORNERS, PREVENT PULL AWAY AT CORNERS, SEAL CORNER AND BUTT JOINTS AS RECOMMENDED BY GASKET MANUFACTURER.
F. TRIM SIGHT EXPOSED TAPE FLUSH WITH STOP AND FINISH SEALANT FLUSH WITH SIGHT LINE
3.2 PROTECTION AND CLEANING
A. PROTECT GLASS FROM CONTAMINATING SUBSTANCES
B. REMOVE AND REPLACE BROKEN, CHIPPED, CRACKED, ABRADED OR DAMAGED GLASS
C. REMOVE LABELS AND WASH GLASS ON BOTH FACES PRIOR TO FINAL ACCEPTANCE
D. REMOVE GLAZING MATERIALS FROM FINISHED SURFACES
END OF SECTION 08800

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

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ARCHITECTURAL SPECIFICATIONS

A0.2

SECTION 09240 - COMMERCIAL CEMENT PLASTER 1

PART I - GENERAL
1.01 SUMMARY:
THIS DOCUMENT IS INTENDED TO BE USED IN PREPARING SPECIFICATIONS FOR PROJECTS UTILIZING COMMERCIAL CEMENT PLASTER 1 BY DRYVIT APPLIED TO CONCRETE OR CMU SUBSTRATES.
1.02 REFERENCES
A. INTERNATIONAL BUILDING CODES (IBC AND IRC)
B. AMERICAN CONCRETE INSTITUTE ACI 524R: GUIDE TO PORTLAND CEMENT PLASTERING
C. PORTLAND CEMENT ASSOCIATION: PORTLAND CEMENT PLASTER (STUCCO) MANUAL
D. ASTM A 526: STEEL SHEET, HOT-DIP GALVANIZED, COMMERCIAL QUALITY
E. ASTM C 150: STANDARD SPECIFICATION FOR PORTLAND CEMENT
F. ASTM C 754: STANDARD SPECIFICATION FOR INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW-ATTACHED GYPSUM PANEL PRODUCTS
G. ASTM C 847: STANDARD SPECIFICATION FOR METAL LATH
H. ASTM C 897: STANDARD SPECIFICATION FOR AGGREGATE FOR JOB MIXED PORTLAND CEMENT BASED PLASTERS
I. ASTM C 920: STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS
J. ASTM C 926: STANDARD SPECIFICATION FOR APPLICATION OF PORTLAND CEMENT-BASED PLASTER
K. ASTM C 1007: STANDARD SPECIFICATION FOR INSTALLATION OF LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS AND RELATED ACCESSORIES.
L. ASTM C 1063: STANDARD SPECIFICATION FOR INSTALLATION OF LATHING AND FURRING TO RECEIVE INTERIOR AND EXTERIOR PORTLAND CEMENT-BASED PLASTER
M. ASTM C 1328: STANDARD SPECIFICATION FOR PLASTIC (STUCCO) CEMENT
N. ASTM D 226: STANDARD SPECIFICATION FOR ASPHALT SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING
O. ASTM D 1784: STANDARD SPECIFICATION FOR RIGID POLY (VINYL CHLORIDE) (PVC) COMPOUNDS AND CHLORINATED POLY (VINYL CHLORIDE) (CPVC) COMPOUNDS
P. ICC-ES AC11: CEMENTITIOUS EXTERIOR WALL COATINGS
1.03 SUBMITTALS
A. SUBMITTAL REQUIREMENTS BY THE CONTRACTOR ARE TO BE INDICATED IN THE CONSTRUCTION DOCUMENTS AS REQUIRED, INCLUDING:
1. PRODUCT LITERATURE, SAMPLES OR MOCK UP.
2. FINISH SAMPLE INDICATING COLOR AND TEXTURE FOR APPROVAL BY ARCHITECT/OWNER.
1.04 DESCRIPTION
A. COMMERCIAL CEMENT PLASTER 1 CONSISTS OF DRYVIT CCP BASE - SANDED OR CONCENTRATE*, DRYVIT ACRYLIC PRIMER AND DRYVIT ACRYLIC COATING OR FINISH. CCP BASE MAY BE APPLIED DIRECTLY TO THE PROPERLY PREPARED CONCRETE OR CMU SUBSTRATE OR TO METAL LATH AND WATER-RESISTIVE BARRIER (AS SPECIFIED).
1. DESIGN REQUIREMENTS:
A. SUBSTRATES SHALL COMPLY WITH LOCAL CODE REQUIREMENTS AND PRACTICES FOR USE UNDER CEMENT PLASTER AND SHALL BE:
1) POURED IN PLACE OR PRECAST CONCRETE
2) CMU MASONRY
B. THE ROOFING MATERIALS SHALL BE LOADED ONTO THE ROOF AND INTERIOR WALLBOARD STOCKED IN THE BUILDING PRIOR TO THE INSTALLATION OF THE COMMERCIAL CEMENT PLASTER 1.
C. DEFLECTION OF SUBSTRATE SYSTEMS SHALL NOT EXCEED L/360.
D. THE SLOPE OF INCLINED SURFACES SHALL NOT BE LESS THAN 6:12 (27°) AND THE LENGTH SHALL NOT EXCEED 12".
E. SLOPES ON WINDOWSILLS PROJECTING 4 IN (102 MM) OR LESS, SHALL NOT BE LESS THAN 3:12.
F. EXPANSION JOINTS:
1) DESIGN AND LOCATION OF EXPANSION JOINTS SHALL BE DETERMINED BY THE PROJECT DESIGN PROFESSIONAL AND INDICATED ON THE CONTRACT DOCUMENTS. AS A MINIMUM, EXPANSION JOINTS IN THE COMMERCIAL CEMENT PLASTER 1 ARE REQUIRED AT THE FOLLOWING LOCATIONS:
A) WHERE EXPANSION JOINTS OCCUR IN THE SUBSTRATE SYSTEM.
B) WHERE BUILDING EXPANSION JOINTS OCCUR.
C) AT FLOOR LINES IN WOOD FRAME CONSTRUCTION.
D) WHERE COMMERCIAL CEMENT PLASTER 1 ABUTS DISSIMILAR MATERIALS.
E) WHERE THE SUBSTRATE CHANGES.
F) WHERE SIGNIFICANT STRUCTURAL MOVEMENT OCCURS SUCH AS CHANGES IN ROOFLINE, BUILDING SHAPE OR STRUCTURAL SYSTEM.
G. CONTROL JOINTS:
1) DESIGN AND LOCATION OF CONTROL JOINTS SHALL BE DETERMINED BY THE DESIGN PROFESSIONAL IN GENERAL ACCORDANCE WITH ASTM C 1063 AND INDICATED ON THE CONTRACT DRAWINGS. AS A MINIMUM, CONTROL JOINTS SHALL BE LOCATED AT THE FOLLOWING LOCATIONS:
A) CORNERS OF OPENINGS
B) SUCH THAT MONOLITHIC WALL AREAS DO NOT EXCEED 144 FT^2 (13.4 M^2)
C) LENGTH TO WIDTH RATIOS OF WALL AREAS SHALL NOT EXCEED 2.5:1
D) MAXIMUM SPACING OF CONTROL JOINTS SHALL NOT EXCEED 18 FT (5.5 M)
H. SEALANTS
1) REFER TO DRYVIT PUBLICATION DS153 FOR A LIST OF SEALANTS THAT HAVE BEEN TESTED FOR COMPATIBILITY WITH DRYVIT PRODUCTS.
I. VAPOR RETARDERS
1) USE AND LOCATION OF VAPOR RETARDERS WITHIN A WALL ASSEMBLY IS THE RESPONSIBILITY OF THE PROJECT DESIGNER AND SHALL COMPLY WITH LOCAL BUILDING CODE REQUIREMENTS. TYPE AND LOCATION SHALL BE NOTED ON THE CONTRACT DOCUMENTS. VAPOR RETARDERS MAY BE INAPPROPRIATE IN CERTAIN AREAS AND CAN RESULT IN CONDENSATION WITHIN THE WALL ASSEMBLY WHEN INCORRECTLY USED. REFER TO DRYVIT PUBLICATION DS159 FOR ADDITIONAL INFORMATION.
J. FLASHING SHALL BE PROVIDED AT ALL ROOF-WALL INTERSECTIONS, WINDOWS, DOORS, CHIMNEYS, DECKS, BALCONIES, AND OTHER AREAS AS NECESSARY TO PREVENT WATER PENETRATION BEHIND COMMERCIAL CEMENT PLASTER 1.
K. SITE COATED EPS SHAPES AND STARTER BOARDS: SHALL BE COATED ON SITE UTILIZING THE SAME MATERIALS (EPS, BASE MATERIAL MIXTURE, REINFORCING MESH, AND FINISH) AS SPECIFIED FOR THE PROJECT.
L. PRE BASE COATED EPS SHAPES AND STARTER BOARDS: SHALL BE SUPPLIED BY ACROCORE OR OTHER APPROVED SHAPE MANUFACTURER.
2. PERFORMANCE REQUIREMENTS: AS A MINIMUM, DRYVIT COMMERCIAL CEMENT PLASTER 1 PRODUCTS SHALL MEET:
A. ASTM C 1328: STANDARD SPECIFICATION FOR PLASTIC (STUCCO) CEMENT
1.05 QUALITY ASSURANCE
A. QUALIFICATIONS:
1. MANUFACTURER: SHALL BE DRYVIT SYSTEMS, INC. OR APPROVED SUPPLIERS. ALL MATERIALS SHALL BE OBTAINED FROM DRYVIT SYSTEMS, INC. OR ITS AUTHORIZED DISTRIBUTORS.
2. PLASTERING CONTRACTOR:
A. SHALL BE KNOWLEDGEABLE IN THE PROPER INSTALLATION OF EXTERIOR LATHING AND CEMENT PLASTER PRODUCTS.
B. SHALL HAVE QUALIFIED AND PROPERLY TRAINED PEOPLE TO PERFORM WORK.
C. SHALL BE LICENSED, BONDED AND INSURED.
D. SHALL HAVE EXPERIENCE IN APPLICATION OF CEMENT PLASTER PRODUCTS ON PROJECTS OF COMPARABLE SCOPE.
3. MACHINE COATED DRYVIT EPS SHAPES AND STARTER BOARDS: SHALL BE SUPPLIED BY ACROCORE OR OTHER MANUFACTURER THAT SUBSCRIBES TO THE DRYVIT THIRD PARTY CERTIFICATION AND QUALITY ASSURANCE PROGRAM.
B. MOCK-UP
1. THE CONTRACTOR SHALL, BEFORE THE PROJECT COMMENCES, PROVIDE THE OWNER/ARCHITECT WITH A MOCK-UP FOR APPROVAL.
2. THE MOCK-UP SHALL BE OF SUITABLE SIZE AS REQUIRED TO ACCURATELY REPRESENT EACH COLOR AND TEXTURE TO BE UTILIZED ON THE PROJECT.
3. THE MOCK-UP SHALL BE PREPARED WITH THE SAME PRODUCTS, TOOLS, EQUIPMENT AND TECHNIQUES REQUIRED FOR THE ACTUAL APPLICATIONS. THE FINISH USED SHALL BE FROM THE SAME BATCH AS THAT BEING USED FOR THE PROJECT.
4. THE APPROVED MOCK-UP SHALL BE AVAILABLE AND MAINTAINED AT THE JOB SITE.
1.06 DELIVERY, STORAGE AND HANDLING
A. ALL COMMERCIAL CEMENT PLASTER 1 MATERIALS SHALL BE DELIVERED TO THE JOB SITE IN THE ORIGINAL, UNOPENED PACKAGES WITH LABELS INTACT. QUESTIONABLE MATERIALS SHALL NOT BE USED.
B. MATERIALS SHALL BE STORED AT THE JOB SITE, AND AT ALL TIMES, IN A COOL, DRY LOCATION, OUT OF DIRECT SUNLIGHT, PROTECTED FROM WEATHER AND OTHER SOURCES OF DAMAGE. MINIMUM STORAGE TEMPERATURE SHALL BE AS FOLLOWS:
1. DPR, PMR, HDP, WEATHERLASTIC AND E FINISHES, COLOR PRIME, PRIMUS, GENESIS AND NCB: 40 °F (4 °C).
C. FOR OTHER PRODUCTS, REFER TO SPECIFIC PRODUCT DATA SHEETS.
D. PROTECT ALL PRODUCTS FROM WEATHER AND DIRECT SUNLIGHT.
E. MAXIMUM STORAGE TEMPERATURE SHALL NOT EXCEED 100 °F (38 °C). NOTE: MINIMIZE EXPOSURE OF MATERIALS TO TEMPERATURES OVER 90 °F (32 °C). FINISHES EXPOSED TO TEMPERATURES OVER 110 °F (43 °C) FOR EVEN SHORT PERIODS MAY EXHIBIT SKINNING, INCREASED VISCOSITY AND SHOULD BE INSPECTED PRIOR TO USE.
1.07 PROJECT CONDITIONS
A. APPLICATION OF WET MATERIALS SHALL NOT TAKE PLACE DURING INCLEMENT WEATHER UNLESS APPROPRIATE PROTECTION IS PROVIDED. PROTECT MATERIALS FROM INCLEMENT WEATHER UNTIL THEY ARE DRY.
B. DRYVIT CCP BASE SHALL NOT BE APPLIED WHEN WALL OR AMBIENT TEMPERATURES ARE BELOW 40 °F (4 °C).
C. AT THE TIME OF DRYVIT PRODUCT APPLICATION, THE AIR AND WALL SURFACE TEMPERATURES SHALL BE FROM 40 °F (4 °C) MINIMUM TO 100 °F (38 °C) MAXIMUM FOR THE FOLLOWING PRODUCTS:
1. DPR, PMR, HDP, WEATHERLASTIC AND E FINISHES, COLOR PRIME, PRIMUS, GENESIS AND NCB.
2. FOR OTHER PRODUCTS, REFER TO SPECIFIC PRODUCT DATA SHEETS.
D. THESE TEMPERATURES SHALL BE MAINTAINED WITH ADEQUATE AIR VENTILATION AND CIRCULATION FOR A MINIMUM OF 24 HOURS (48 HOURS FOR WEATHERLASTIC FINISHES, AMERISTONE, AND TERRANEO) THEREAFTER, OR UNTIL THE PRODUCTS ARE COMPLETELY DRY. REFER TO PUBLISHED PRODUCT DATA SHEETS FOR MORE SPECIFIC INFORMATION.
E. CCP BASE SHALL BE COMPLETELY DRY AND PROPERLY CURED FOR A MINIMUM OF 7 DAYS PRIOR TO PRIMER APPLICATION.
F. IF NECESSARY, TENTING, HEATING AND VENTILATION MAY BE UTILIZED TO MAINTAIN REQUIRED CONDITIONS. HEATERS SHALL BE VENTED TO THE OUTSIDE.
G. PROTECT THE COMMERCIAL CEMENT PLASTER 1 MATERIALS FROM UNEVEN AND EXCESSIVE EVAPORATION IN DRY, WARM, OR WINDY WEATHER. ALWAYS WORK THE SHADY SIDE OF THE WALL. REFER TO SECTION 3.03.B AND 3.03.C FOR CCP BASE CURING REQUIREMENTS.
1.08 SEQUENCING AND SCHEDULING
A. INSTALLATION OF THE COMMERCIAL CEMENT PLASTER 1 SHALL BE COORDINATED WITH OTHER CONSTRUCTION TRADES.
1.09 WARRANTY
A. DRYVIT SYSTEMS, INC. SHALL PROVIDE A LIMITED WARRANTY AGAINST DEFECTIVE MATERIAL UPON WRITTEN REQUEST. DRYVIT SHALL MAKE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED. DRYVIT DOES NOT WARRANT WORKMANSHIP. FULL DETAILS ARE AVAILABLE FROM DRYVIT SYSTEMS, INC.
PART II - PRODUCTS
2.01 MANUFACTURER:
A. ALL COMPONENTS OF COMMERCIAL CEMENT PLASTER 1 SHALL BE OBTAINED FROM DRYVIT OR ITS AUTHORIZED DISTRIBUTORS.
2.02 MATERIALS
A. PAPER BACKED METAL LATH (BY OTHERS): SPECIFIC TYPE TO BE SELECTED BY DESIGNER BASED ON SPECIFIC PROJECT REQUIREMENTS. PAPER BACKING OR OTHER SLIP SHEET IS REQUIRED WHEN INSTALLED OVER BACKSTOP NT LIQUID AIR/WATER RESISTIVE BARRIER.
1. SELF-FURRING DIAMOND MESH METAL LATH SHALL BE GALVANIZED, MINIMUM 2.5 LBS/SQ YD (1.4 KG/M^2) OR 3.4 LBS/YD^2 (1.9 KG/M^2) AND COMPLY WITH ASTM C 847.
2. SELF FURRING WELDED WIRE LATH, MINIMUM 16 GAUGE, SHALL BE GALVANIZED WITH OPENINGS NOT EXCEEDING 2 IN X 2 IN (51 MM X 51 MM), AND COMPLY WITH ASTM C 933.
3. 3/8 IN (9.5 MM) GALVANIZED RIB LATH SHALL COMPLY WITH ASTM C 847.
4. SELF FURRING WOVEN WIRE LATH, MINIMUM 17 GAUGE, SHALL BE GALVANIZED WITH OPENINGS NOT EXCEEDING 1 1/2 IN X 1 1/2 IN (38 MM X 38 MM) MEETING ASTM C 1032.
B. ACCESSORIES (BY OTHERS).
1. TYPE, STYLE AND MANUFACTURER SHALL BE INDICATED ON CONSTRUCTION DOCUMENTS.
2. DEPTH OF ACCESSORIES (GROUNDS) SHALL BE SIZED FOR THE PLASTER THICKNESS.
3. IN CORROSIVE ENVIRONMENTS, ACCESSORIES MANUFACTURED OF PVC OR ZINC ARE RECOMMENDED.
4. STEEL ACCESSORIES SHALL MEET ASTM C 841.
5. PVC ACCESSORIES SHALL MEET ASTM D 1784 AND ASTM C 1063.
C. PLASTER BASE COAT:
1. DRYVIT CCP BASE - SANDED: A FIBERGLASS REINFORCED, CEMENT PLASTER MIX UTILIZING ALKALI RESISTANT FIBERS AND PROPRIETARY CEMENTITIOUS ADMIXTURES WHICH IS FIELD MIXED WITH WATER AND DRYVIT AC-100 ACTIVATOR (WHEN SPECIFIED). CCP BASE - SANDED IS PACKAGED IN 80 LB (36.3 KG) BAGS.
D. MACHINE COATED DRYVIT EPS SHAPES AND STARTER BOARDS: SHALL BE SUPPLIED BY ACROCORE OR OTHER MANUFACTURER THAT SUBSCRIBES TO THE DRYVIT THIRD PARTY CERTIFICATION AND QUALITY ASSURANCE PROGRAM.

E. PRIMER:
1. DRYVIT COLOR PRIME, COLOR PRIME-W OR PRIMER WITH SAND: A WATER-BASED, PIGMENTED ACRYLIC PRIMER APPLIED OVER THE CURED COMMERCIAL CEMENT PLASTER BASE COAT TO IMPROVE ADHESION AND PROVIDE A MORE UNIFORM APPEARANCE OF THE FINISH.
F. DRYVIT COATING:
1. DEMANDIT SMOOTH - INTEGRALLY COLORED SMOOTH EXTERIOR WALL COATING ENHANCED WITH PROVEN MILDEW RESISTANCE. A MINIMUM OF 2 COATS ARE REQUIRED.
G. DRYVIT FINISH(ES): 100% ACRYLIC FINISHES WITH INTEGRAL COLOR AND TEXTURE. SHALL BE THE TYPE, COLOR AND TEXTURE AS SELECTED BY THE ARCHITECT/OWNER AND SHALL BE OF THE FOLLOWING TYPES:
1. STANDARD DPR (DIRT PICKUP RESISTANCE): WATER-BASED, ACRYLIC COATING WITH INTEGRAL COLOR AND TEXTURE AND FORMULATED WITH DPR CHEMISTRY:
A. SANDPEBBLE FINE DPR: FINE PEBBLE TEXTURE
PART III - EXECUTION
3.01 EXAMINATION
A. PRIOR TO INSTALLATION OF COMMERCIAL CEMENT PLASTER 1, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT:
1. THE SURFACES TO RECEIVE PLASTER ARE FREE OF DUST, LOOSE PARTICLES, OIL AND OTHER CONDITIONS THAT WOULD AFFECT THE ADHESION, INSTALLATION OR PERFORMANCE OF COMMERCIAL CEMENT PLASTER 1 MATERIALS.
2. THE LATH IS OF THE PROPER TYPE, INSTALLED TIGHT, PROPERLY FASTENED, AND MEETS THE REQUIREMENTS OF ASTM C 1063, ASTM C 847 (EXPANDED METAL), ASTM C 933 (WELDED WIRE), OR ASTM C 1032 (WOVEN WIRE), AND LOCAL BUILDING CODE REQUIREMENTS.
3. ALL ACCESSORIES INCLUDING CORNER AIDS, CONTROL AND EXPANSION JOINTS, CASING BEADS, ETC. ARE PROPERLY FASTENED AND POSITIONED ACCORDING TO CONTRACT DRAWINGS AND LOCAL BUILDING CODE REQUIREMENTS.
4. THE WATER-RESISTIVE BARRIER (IF SPECIFIED) IS OF A PROPER TYPE AND HAS BEEN INSTALLED IN A WEATHERBOARD FASHION IN ACCORDANCE WITH BUILDING CODE AND MANUFACTURER'S REQUIREMENTS.
5. DOORS, WINDOWS, DECKS, AND OTHER OPENINGS AND PENETRATIONS HAVE BEEN PROPERLY FLASHED IN ACCORDANCE WITH BUILDING CODE AND CONTRACT DOCUMENTS AND COMMERCIAL CEMENT PLASTER 1 INSTALLATION DETAILS DS824.
6. METAL ROOF FLASHING HAS BEEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, ASPHALT ROOFING MANUFACTURERS ASSOCIATION (ARMA) STANDARDS AND COMMERCIAL CEMENT PLASTER 1 INSTALLATION DETAILS DS824, OR AS OTHERWISE NECESSARY TO MAINTAIN A WATERTIGHT ENVELOPE.
7. THE SUBSTRATE IS FLAT WITHIN 1/4 IN (6.4 MM) IN 10 FT (3.0 M).
8. THE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR AND/OR OWNER AND/OR ARCHITECT OF ALL DISCREPANCIES. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE RESOLVED.
3.02 PREPARATION
A. PROTECTION
1. THE COMMERCIAL CEMENT PLASTER 1 MATERIALS SHALL BE PROTECTED BY PERMANENT OR TEMPORARY MEANS FROM WEATHER AND OTHER DAMAGE PRIOR TO, DURING, AND FOLLOWING APPLICATION, UNTIL DRY.
2. PROTECT ADJOINING WORK AND PROPERTY.
B. SOLID SURFACES SUCH AS PRECAST OR CAST-IN-PLACE CONCRETE OR MASONRY, SHALL HAVE ADEQUATE SUCTION AND SURFACE ROUGHNESS TO PROVIDE BOND. SMOOTH OR NON-ABSORPTIVE SURFACES SHALL BE PREPARED BY THE FOLLOWING METHODS:
1. SANDBLASTING, WIRE BRUSHING, ACID ETCHING, CHIPPING OR ANY COMBINATION THEREOF. REFER TO ASTM D 4258, ASTM D 4259 ASTM D 4260, OR ASTM D 4261 AS APPLICABLE.
2. APPLICATION OF AN APPROVED BONDING AGENT.
3. WHERE EFFECTIVE BOND CANNOT BE ACHIEVED, THE ENTIRE SURFACE SHALL BE COVERED WITH FURRED METAL LATH IN ACCORDANCE WITH ASTM C 1063 AND BUILDING CODE REQUIREMENTS.
3.03 INSTALLATION
A. MIXING AND APPLICATION INSTRUCTIONS - REFER TO THE PRODUCT LITERATURE FOR SPECIFIC MIXING AND APPLICATION INSTRUCTIONS OF EACH PRODUCT.
B. CCP BASE SHALL BE MOIST CURED FOR A MINIMUM OF 48 HOURS FOLLOWING APPLICATION.
C. CCP BASE SHALL BE COMPLETELY DRY AND CURED FOR A MINIMUM OF 7 DAYS PRIOR TO APPLICATION OF PRIMER AND FINISH.
D. THE INSTALLATION OF MACHINE COATED DRYVIT EPS SHAPES AND STARTER BOARDS SHALL BE IN ACCORDANCE WITH DRYVIT PUBLICATION DS854.
3.04 FIELD QUALITY CONTROL
A. THE LATH AND WATER-RESISTIVE BARRIER INSTALLATION SHALL BE INSPECTED AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT PRIOR TO PLASTER MATERIALS BEING APPLIED.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THE COMMERCIAL CEMENT PLASTER 1 MATERIALS.
C. DRYVIT ASSUMES NO RESPONSIBILITY FOR ON-SITE INSPECTIONS OR APPLICATION OF ITS PRODUCTS.
3.05 CLEANING
A. ALL EXCESS COMMERCIAL CEMENT PLASTER 1 MATERIALS SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR IN ACCORDANCE WITH CONTRACT PROVISIONS.
B. ALL SURROUNDING AREAS, WHERE THE DRYVIT COMMERCIAL CEMENT PLASTER 1 HAS BEEN APPLIED, SHALL BE LEFT FREE OF DEBRIS AND FOREIGN SUBSTANCES RESULTING FROM THE CONTRACTOR'S WORK.
3.06 PROTECTION
A. THE COMMERCIAL CEMENT PLASTER 2 MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER DAMAGE UNTIL PERMANENT PROTECTION IN THE FORM OF FLASHINGS, SEALANTS, ETC. ARE INSTALLED.
END OF SECTION 09240

SECTION 09245 - COMMERCIAL CEMENT PLASTER 2

PART I - GENERAL
1.01 SUMMARY:
THIS DOCUMENT IS INTENDED TO BE USED IN PREPARING SPECIFICATIONS FOR PROJECTS UTILIZING COMMERCIAL CEMENT PLASTER 2 BY DRYVIT APPLIED TO PROPERLY FRAMED AND SHEATHED EXTERIOR WALL ASSEMBLIES.
1.02 REFERENCES
A. INTERNATIONAL BUILDING CODES (IBC AND IRC)
B. AMERICAN CONCRETE INSTITUTE ACI 524R: GUIDE TO PORTLAND CEMENT PLASTERING
C. PORTLAND CEMENT ASSOCIATION: PORTLAND CEMENT PLASTER (STUCCO) MANUAL
D. ASTM A 526: STEEL SHEET, HOT-DIP GALVANIZED, COMMERCIAL QUALITY
E. ASTM C 150: STANDARD SPECIFICATION FOR PORTLAND CEMENT
F. ASTM C 754: STANDARD SPECIFICATION FOR INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW-ATTACHED GYPSUM PANEL PRODUCTS
G. ASTM C 847: STANDARD SPECIFICATION FOR METAL LATH
H. ASTM C 897: STANDARD SPECIFICATION FOR AGGREGATE FOR JOB MIXED PORTLAND CEMENT BASED PLASTERS
I. ASTM C 920 STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS
J. ASTM C 926: STANDARD SPECIFICATION FOR APPLICATION OF PORTLAND CEMENT-BASED PLASTER
K. ASTM C 933: STANDARD SPECIFICATION FOR WELDED WIRE LATH
L. ASTM C 1007: STANDARD SPECIFICATION FOR INSTALLATION OF LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS AND RELATED ACCESSORIES.
M. ASTM C 1032: STANDARD SPECIFICATION FOR WOVEN WIRE PLASTER BASE
N. ASTM C 1063: STANDARD SPECIFICATION FOR INSTALLATION OF LATHING AND FURRING TO RECEIVE INTERIOR AND EXTERIOR PORTLAND CEMENT-BASED PLASTER
O. ASTM C 1328: STANDARD SPECIFICATION FOR PLASTIC (STUCCO) CEMENT
P. ASTM D 226: STANDARD SPECIFICATION FOR ASPHALT SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING
Q. ASTM D 4258: STANDARD PRACTICE FOR SURFACE CLEANING CONCRETE FOR COATING
R. ASTM D 4259: STANDARD PRACTICE FOR ABRADING CONCRETE
S. ASTM D 4260: STANDARD PRACTICE FOR ACID ETCHING CONCRETE
T. ASTM D 4261: STANDARD PRACTICE FOR SURFACE CLEANING CONCRETE MASONRY UNITS FOR COATING
U. ASTM D 1784: STANDARD SPECIFICATION FOR RIGID POLY (VINYL CHLORIDE) (PVC) COMPOUNDS AND CHLORINATED POLY (VINYL CHLORIDE) (CPVC) COMPOUNDS
V. ICC-ES AC11: CEMENTITIOUS EXTERIOR WALL COATINGS
1.03 SUBMITTALS
A. SUBMITTAL REQUIREMENTS BY THE CONTRACTOR ARE TO BE INDICATED IN THE CONSTRUCTION DOCUMENTS AS REQUIRED, INCLUDING:
1. PRODUCT LITERATURE, SAMPLES OR MOCK UP.
2. FINISH SAMPLE INDICATING COLOR AND TEXTURE FOR APPROVAL BY ARCHITECT/OWNER.
1.04 DESCRIPTION
A. COMMERCIAL CEMENT PLASTER 2 CONSISTS OF DRYVIT CCP BASE - SANDED OR CONCENTRATE, DRYVIT ACRYLIC PRIMER AND DRYVIT ACRYLIC COATING OR FINISH. CCP BASE IS APPLIED DIRECTLY TO THE PROPERLY INSTALLED METAL LATH (AS SPECIFIED).
1. DESIGN REQUIREMENTS:
A. SUBSTRATES SHALL COMPLY WITH LOCAL CODE REQUIREMENTS AND PRACTICES FOR USE UNDER CEMENT PLASTER AND SHALL BE WOOD OR METAL FRAMED WALL ASSEMBLIES SHEATHED WITH APPROVED SUBSTRATES AS FOLLOWS:
1) EXTERIOR GRADE GYPSUM SHEATHING MEETING ASTM C 1396 (FORMERLY C 79) REQUIREMENTS FOR WATER RESISTANT CORE OR TYPE X CORE AT THE TIME OF APPLICATION OF THE COMMERCIAL CEMENT PLASTER SYSTEM 2.
2) EXTERIOR SHEATHING HAVING A WATER-RESISTANT CORE WITH FIBERGLASS MAT FACERS MEETING ASTM C 1177.
3) EXTERIOR FIBER REINFORCED CEMENT OR CALCIUM SILICATE BOARDS.
4) APA EXTERIOR OR EXPOSURE 1 RATED PLYWOOD, GRADE C-D OR BETTER, NOMINAL 1/2 IN (12.7 MM), MINIMUM, INSTALLED WITH THE C FACE OUT.
5) APA EXTERIOR OR EXPOSURE 1 FIRE RETARDANT TREATED (FRT) PLYWOOD, GRADE C-D OR BETTER, NOMINAL 1/2 IN (12.7 MM), MINIMUM, INSTALLED WITH THE C FACE OUT.
6) APA EXPOSURE 1 RATED ORIENTED STRAND BOARD (OSB) NOMINAL 1/2 IN (12.7 MM), MINIMUM. NOTE: APPLICATIONS OVER OSB SHEATHING REQUIRES A MINIMUM OF 2 COATS OF BACKSTOP NT - SMOOTH OR SPRAY. BACKSTOP NT - TEXTURE IS NOT RECOMMENDED FOR THE FIELD OF WALL APPLICATION OVER OSB.
B. THE ROOFING MATERIALS SHALL BE LOADED ONTO THE ROOF AND INTERIOR WALLBOARD STOCKED IN THE BUILDING PRIOR TO THE INSTALLATION OF THE COMMERCIAL CEMENT PLASTER 2.
C. DEFLECTION OF SUBSTRATE SYSTEMS SHALL NOT EXCEED L/360.
D. THE SLOPE OF INCLINED SURFACES SHALL NOT BE LESS THAN 6:12 (27°) AND THE LENGTH SHALL NOT EXCEED 12 IN (305 MM).
E. SLOPES ON WINDOWSILLS PROJECTING 4 IN (102 MM) OR LESS, SHALL NOT BE LESS THAN 3:12.
F. EXPANSION JOINTS:
1) DESIGN AND LOCATION OF EXPANSION JOINTS SHALL BE DETERMINED BY THE PROJECT DESIGN PROFESSIONAL AND INDICATED ON THE CONTRACT DOCUMENTS. AS A MINIMUM, EXPANSION JOINTS IN COMMERCIAL CEMENT PLASTER 2 ARE REQUIRED AT THE FOLLOWING LOCATIONS:
A) WHERE EXPANSION JOINTS OCCUR IN THE SUBSTRATE SYSTEM.
B) WHERE BUILDING EXPANSION JOINTS OCCUR.
C) AT FLOOR LINES IN WOOD FRAME CONSTRUCTION.
D) WHERE COMMERCIAL CEMENT PLASTER 2 ABUTS DISSIMILAR MATERIALS.
E) WHERE THE SUBSTRATE CHANGES.
F) WHERE SIGNIFICANT STRUCTURAL MOVEMENT OCCURS SUCH AS CHANGES IN ROOFLINE, BUILDING SHAPE OR STRUCTURAL SYSTEM.
G. CONTROL JOINTS:
1) DESIGN AND LOCATION OF CONTROL JOINTS SHALL BE DETERMINED BY THE PROJECT DESIGN PROFESSIONAL IN ACCORDANCE WITH ASTM C 1063 AND INDICATED ON THE CONTRACT DRAWINGS. AS A MINIMUM, CONTROL JOINTS SHALL BE LOCATED AT THE FOLLOWING LOCATIONS:
A) CORNERS OF OPENINGS
B) SUCH THAT MONOLITHIC WALL AREAS DO NOT EXCEED 144 FT^2 (13.4 M^2)
C) LENGTH TO WIDTH RATIOS OF WALL AREAS SHALL NOT EXCEED 2.5:1
D) MAXIMUM SPACING OF CONTROL JOINTS SHALL NOT EXCEED 18 FT (5.5 M)
H. SEALANTS
1) SHALL MEET ASTM C 920
2) REFER TO DRYVIT PUBLICATION DS153 FOR A LIST OF SEALANTS THAT HAVE BEEN TESTED FOR COMPATIBILITY WITH DRYVIT PRODUCTS.
I. VAPOR RETARDERS
1) USE AND LOCATION OF VAPOR RETARDERS WITHIN A WALL ASSEMBLY IS THE RESPONSIBILITY OF THE PROJECT DESIGNER AND SHALL COMPLY WITH LOCAL BUILDING CODE REQUIREMENTS. TYPE AND LOCATION SHALL BE NOTED ON THE CONTRACT DOCUMENTS. VAPOR RETARDERS MAY BE INAPPROPRIATE IN CERTAIN AREAS AND CAN RESULT IN CONDENSATION WITHIN THE WALL ASSEMBLY WHEN INCORRECTLY USED. REFER TO DRYVIT PUBLICATION DS159 FOR ADDITIONAL INFORMATION.
J. FLASHING SHALL BE PROVIDED AT ALL ROOF-WALL INTERSECTIONS, WINDOWS, DOORS, CHIMNEYS, DECKS, BALCONIES, AND OTHER AREAS AS NECESSARY TO PREVENT WATER PENETRATION BEHIND COMMERCIAL CEMENT PLASTER 2.
K. SITE COATED EPS SHAPES AND STARTER BOARDS: SHALL BE COATED ON SITE UTILIZING THE SAME MATERIALS (EPS, BASE MATERIAL MIXTURE, REINFORCING MESH, AND FINISH) AS SPECIFIED FOR THE PROJECT.
L. PRE BASE COATED EPS SHAPES AND STARTER BOARDS: SHALL BE SUPPLIED BY ACROCORE OR OTHER APPROVED SHAPE MANUFACTURER.
2. PERFORMANCE REQUIREMENTS: AS A MINIMUM, DRYVIT COMMERCIAL CEMENT PLASTER 2 PRODUCTS SHALL MEET:
A. ASTM C 1328: STANDARD SPECIFICATION FOR PLASTIC (STUCCO) CEMENT
1.05 QUALITY ASSURANCE
A. QUALIFICATIONS:
1. MANUFACTURER: SHALL BE DRYVIT SYSTEMS, INC. OR APPROVED SUPPLIERS. ALL MATERIALS SHALL BE OBTAINED FROM DRYVIT SYSTEMS, INC. OR ITS AUTHORIZED DISTRIBUTORS.
2. PLASTERING CONTRACTOR:
A. SHALL BE KNOWLEDGEABLE IN THE PROPER INSTALLATION OF EXTERIOR LATHING AND CEMENT PLASTER PRODUCTS.
B. SHALL HAVE QUALIFIED AND PROPERLY TRAINED PEOPLE TO PERFORM WORK.
C. SHALL BE LICENSED, BONDED AND INSURED.
D. SHALL HAVE EXPERIENCE IN APPLICATION OF CEMENT PLASTER PRODUCTS ON PROJECTS OF COMPARABLE SCOPE.
3. MACHINE COATED DRYVIT EPS SHAPES AND STARTER BOARDS: SHALL BE SUPPLIED BY ACROCORE OR OTHER MANUFACTURER THAT SUBSCRIBES TO THE DRYVIT THIRD PARTY CERTIFICATION AND QUALITY ASSURANCE PROGRAM.
B. MOCK-UP
1. THE CONTRACTOR SHALL, BEFORE THE PROJECT COMMENCES, PROVIDE THE OWNER/ARCHITECT WITH A MOCK-UP FOR APPROVAL.
2. THE MOCK-UP SHALL BE OF SUITABLE SIZE AS REQUIRED TO ACCURATELY REPRESENT EACH COLOR AND TEXTURE TO BE UTILIZED ON THE PROJECT.
3. THE MOCK-UP SHALL BE PREPARED WITH THE SAME PRODUCTS, TOOLS, EQUIPMENT AND TECHNIQUES REQUIRED FOR THE ACTUAL APPLICATIONS. THE FINISH USED SHALL BE FROM THE SAME BATCH AS THAT BEING USED FOR THE PROJECT.
4. THE APPROVED MOCK-UP SHALL BE AVAILABLE AND MAINTAINED AT THE JOB SITE.
1.06 DELIVERY, STORAGE AND HANDLING
A. ALL COMMERCIAL CEMENT PLASTER 2 MATERIALS SHALL BE DELIVERED TO THE JOB SITE IN THE ORIGINAL, UNOPENED PACKAGES WITH LABELS INTACT. QUESTIONABLE MATERIALS SHALL NOT BE USED.
B. MATERIALS SHALL BE STORED AT THE JOB SITE, AND AT ALL TIMES, IN A COOL, DRY LOCATION, OUT OF DIRECT SUNLIGHT, PROTECTED FROM WEATHER AND OTHER SOURCES OF DAMAGE. MINIMUM STORAGE TEMPERATURE SHALL BE AS FOLLOWS:
1. DPR, PMR, HDP, WEATHERLASTIC AND E FINISHES, COLOR PRIME, PRIMUS, GENESIS AND NCB: 40 °F (4 °C).
C. FOR OTHER PRODUCTS, REFER TO SPECIFIC PRODUCT DATA SHEETS.
D. PROTECT ALL PRODUCTS FROM WEATHER AND DIRECT SUNLIGHT.
E. MAXIMUM STORAGE TEMPERATURE SHALL NOT EXCEED 100 °F (38 °C). NOTE: MINIMIZE EXPOSURE OF MATERIALS TO TEMPERATURES OVER 90 °F (32 °C). FINISHES EXPOSED TO TEMPERATURES OVER 110 °F (43 °C) FOR EVEN SHORT PERIODS MAY EXHIBIT SKINNING, INCREASED VISCOSITY AND SHOULD BE INSPECTED PRIOR TO USE.
1.07 PROJECT CONDITIONS
A. APPLICATION OF WET MATERIALS SHALL NOT TAKE PLACE DURING INCLEMENT WEATHER UNLESS APPROPRIATE PROTECTION IS PROVIDED. PROTECT MATERIALS FROM INCLEMENT WEATHER UNTIL THEY ARE DRY.
B. DRYVIT CCP BASE SHALL NOT BE APPLIED WHEN WALL OR AMBIENT TEMPERATURES ARE BELOW 40 °F (4 °C).
C. AT THE TIME OF DRYVIT PRODUCT APPLICATION, THE AIR AND WALL SURFACE TEMPERATURES SHALL BE FROM 40 °F (4 °C) MINIMUM TO 100 °F (38 °C) MAXIMUM FOR THE FOLLOWING PRODUCTS:
1. DPR, PMR, HDP, WEATHERLASTIC AND E FINISHES, COLOR PRIME, PRIMUS, GENESIS AND NCB.
2. FOR OTHER PRODUCTS, REFER TO SPECIFIC PRODUCT DATA SHEETS.
D. THESE TEMPERATURES SHALL BE MAINTAINED WITH ADEQUATE AIR VENTILATION AND CIRCULATION FOR A MINIMUM OF 24 HOURS (48 HOURS FOR WEATHERLASTIC FINISHES, AMERISTONE, AND TERRANEO) THEREAFTER, OR UNTIL THE PRODUCTS ARE COMPLETELY DRY. REFER TO PUBLISHED PRODUCT DATA SHEETS FOR MORE SPECIFIC INFORMATION.
E. CCP BASE SHALL BE COMPLETELY DRY AND PROPERLY CURED FOR A MINIMUM OF 7 DAYS PRIOR TO PRIMER APPLICATION.
F. IF NECESSARY, TENTING, HEATING AND VENTILATION MAY BE UTILIZED TO MAINTAIN REQUIRED CONDITIONS. HEATERS SHALL BE VENTED TO THE OUTSIDE.
G. PROTECT THE COMMERCIAL CEMENT PLASTER 2 MATERIALS FROM UNEVEN AND EXCESSIVE EVAPORATION IN DRY, WARM, OR WINDY WEATHER. ALWAYS WORK THE SHADY SIDE OF THE WALL. REFER TO SECTION 3.03.B AND 3.03.C FOR CCP BASE CURING REQUIREMENTS.
1.08 SEQUENCING AND SCHEDULING
A. INSTALLATION OF THE COMMERCIAL CEMENT PLASTER 2 SHALL BE COORDINATED WITH OTHER CONSTRUCTION TRADES.
1.09 WARRANTY
A. DRYVIT SYSTEMS, INC. SHALL PROVIDE A LIMITED WARRANTY AGAINST DEFECTIVE MATERIAL UPON WRITTEN REQUEST. DRYVIT SHALL MAKE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED. DRYVIT DOES NOT WARRANT WORKMANSHIP. FULL DETAILS ARE AVAILABLE FROM DRYVIT SYSTEMS, INC.
PART II - PRODUCTS
2.01 MANUFACTURER:
A. ALL COMPONENTS OF COMMERCIAL CEMENT PLASTER 2 SHALL BE OBTAINED FROM DRYVIT OR ITS AUTHORIZED DISTRIBUTORS.
2.02 MATERIALS
A. WATER-RESISTIVE BARRIER (BY OTHERS):
1. SHALL COMPLY WITH ALL LOCAL BUILDING CODE REQUIREMENTS. MINIMUM 2 LAYERS ARE REQUIRED OVER WOOD BASED SUBSTRATES.
B. LATH (BY OTHERS): SHALL BE ONE OF THE FOLLOWING. SPECIFIC TYPE TO BE SELECTED BY DESIGNER BASED ON SPECIFIC PROJECT REQUIREMENTS.
1. SELF-FURRING DIAMOND MESH METAL LATH SHALL BE GALVANIZED, MINIMUM 2.5 LBS/SQ YD (1.4 KG/M^2) OR 3.4 LBS/YD^2 (1.9 KG/M^2) AND COMPLY WITH ASTM C 847.
2. SELF FURRING WELDED WIRE LATH, MINIMUM 16 GAUGE, SHALL BE GALVANIZED WITH OPENINGS NOT EXCEEDING 2 IN X 2 IN (51 MM X 51 MM), AND COMPLY WITH ASTM C 933.
3. 3/8 IN (9.5 MM) GALVANIZED RIB LATH SHALL COMPLY WITH ASTM C 847.
4. SELF FURRING WOVEN WIRE LATH, MINIMUM 17 GAUGE, SHALL BE GALVANIZED WITH OPENINGS NOT EXCEEDING 1 1/2 IN X 1 1/2 IN (38 MM X 38 MM) MEETING ASTM C 1032.
C. ACCESSORIES (BY OTHERS).
1. YPE, STYLE AND MANUFACTURER SHALL BE INDICATED ON CONSTRUCTION DOCUMENTS.
2. DEPTH OF ACCESSORIES (GROUNDS) SHALL BE SIZED FOR THE PLASTER THICKNESS.
3. IN CORROSIVE ENVIRONMENTS, ACCESSORIES MANUFACTURED OF PVC OR ZINC ARE RECOMMENDED.
4. STEEL ACCESSORIES SHALL MEET ASTM C 841.
5. PVC ACCESSORIES SHALL MEET ASTM D 1784 AND ASTM C 1063.
D. PLASTER BASE COAT:
1. DRYVIT CCP BASE - SANDED: A FIBERGLASS REINFORCED, CEMENT PLASTER MIX UTILIZING ALKALI RESISTANT FIBERS AND PROPRIETARY CEMENTITIOUS ADMIXTURES WHICH IS FIELD MIXED WITH WATER AND DRYVIT AC-100 ACTIVATOR (WHEN SPECIFIED). CCP BASE - SANDED IS PACKAGED IN 80 LB (36.3 KG) BAGS.
E. MACHINE COATED DRYVIT EPS SHAPES AND STARTER BOARDS: SHALL BE SUPPLIED BY ACROCORE OR OTHER MANUFACTURER THAT SUBSCRIBES TO THE DRYVIT THIRD PARTY CERTIFICATION AND QUALITY ASSURANCE PROGRAM.
F. PRIMER:
1. DRYVIT COLOR PRIME, COLOR PRIME-W OR PRIMER WITH SAND: A WATER-BASED, PIGMENTED ACRYLIC PRIMER APPLIED OVER THE CURED CCP BASE COAT TO IMPROVE ADHESION AND PROVIDE A MORE UNIFORM APPEARANCE OF THE FINISH.
G. DRYVIT COATING:
1. DEMANDIT SMOOTH - INTEGRALLY COLORED SMOOTH EXTERIOR WALL COATING ENHANCED WITH PROVEN MILDEW RESISTANCE. A MINIMUM OF 2 COATS ARE REQUIRED.
H. DRYVIT FINISH(ES): 100% ACRYLIC FINISHES WITH INTEGRAL COLOR AND TEXTURE. SHALL BE THE TYPE, COLOR AND TEXTURE AS SELECTED BY THE ARCHITECT/OWNER AND SHALL BE OF THE FOLLOWING TYPES:
1. STANDARD DPR (DIRT PICKUP RESISTANCE): WATER-BASED, ACRYLIC COATING WITH INTEGRAL COLOR AND TEXTURE AND FORMULATED WITH DPR CHEMISTRY:
A. SANDPEBBLE FINE DPR: FINE PEBBLE TEXTURE
PART III - EXECUTION
3.01 EXAMINATION
A. PRIOR TO INSTALLATION OF COMMERCIAL CEMENT PLASTER 2, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT:
1. THE SURFACES TO RECEIVE PLASTER ARE FREE OF DUST, LOOSE PARTICLES, OIL AND OTHER CONDITIONS THAT WOULD AFFECT THE ADHESION, INSTALLATION OR PERFORMANCE OF COMMERCIAL CEMENT PLASTER 2 MATERIALS.
2. THE LATH IS OF THE PROPER TYPE, INSTALLED TIGHT, PROPERLY FASTENED, AND MEETS THE REQUIREMENTS OF ASTM C 1063, ASTM C 847 (EXPANDED METAL), ASTM C 933 (WELDED WIRE), OR ASTM C 1032 (WOVEN WIRE), AND LOCAL BUILDING CODE REQUIREMENTS.
3. ALL ACCESSORIES INCLUDING CORNER AIDS, CONTROL AND EXPANSION JOINTS, CASING BEADS, ETC. ARE PROPERLY FASTENED AND POSITIONED ACCORDING TO CONTRACT DRAWINGS AND LOCAL BUILDING CODE REQUIREMENTS.
4. DOORS, WINDOWS, DECKS, AND OTHER OPENINGS AND PENETRATIONS HAVE BEEN PROPERLY FLASHED IN ACCORDANCE WITH BUILDING CODE AND CONTRACT DOCUMENTS AND COMMERCIAL CEMENT PLASTER 2 INSTALLATION DETAILS DS825.
5. METAL ROOF FLASHING HAS BEEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, ASPHALT ROOFING MANUFACTURERS ASSOCIATION (ARMA) STANDARDS AND COMMERCIAL CEMENT PLASTER 2 INSTALLATION DETAILS DS825, OR AS OTHERWISE NECESSARY TO MAINTAIN A WATERTIGHT ENVELOPE.
6. THE SUBSTRATE IS FLAT WITHIN 1/4 IN (6.4 MM) IN 10 FT (3.0 M).
7. THE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR AND/OR OWNER AND/OR ARCHITECT OF ALL DISCREPANCIES. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE RESOLVED.
3.02 PREPARATION
A. PROTECTION
1. THE COMMERCIAL CEMENT PLASTER 2 MATERIALS SHALL BE PROTECTED BY PERMANENT OR TEMPORARY MEANS FROM WEATHER AND OTHER DAMAGE PRIOR TO, DURING, AND FOLLOWING APPLICATION, UNTIL DRY.
2. PROTECT ADJOINING WORK AND PROPERTY.
B. SOLID SURFACES SUCH AS PRECAST OR CAST-IN-PLACE CONCRETE OR MASONRY, SHALL HAVE ADEQUATE SUCTION AND SURFACE ROUGHNESS TO PROVIDE BOND. SMOOTH OR NON-ABSORPTIVE SURFACES SHALL BE PREPARED BY THE FOLLOWING METHODS:
1. SANDBLASTING, WIRE BRUSHING, ACID ETCHING, CHIPPING OR ANY COMBINATION THEREOF. REFER TO ASTM D 4258, ASTM D 4259 ASTM D 4260, OR ASTM D 4261 AS APPLICABLE.
2. APPLICATION OF AN APPROVED BONDING AGENT.
3. WHERE EFFECTIVE BOND CANNOT BE ACHIEVED, THE ENTIRE SURFACE SHALL BE COVERED WITH FURRED METAL LATH IN ACCORDANCE WITH ASTM C 1063 AND BUILDING CODE REQUIREMENTS.
3.03 INSTALLATION
A. MIXING AND APPLICATION INSTRUCTIONS - REFER TO THE PRODUCT LITERATURE FOR SPECIFIC MIXING AND APPLICATION INSTRUCTIONS OF EACH PRODUCT.
B. CCP BASE SHALL BE MOIST CURED FOR A MINIMUM OF 48 HOURS FOLLOWING APPLICATION.
C. CCP BASE SHALL BE COMPLETELY DRY AND CURED FOR A MINIMUM OF 7 DAYS PRIOR TO APPLICATION OF PRIMER AND FINISH.
D. THE INSTALLATION OF MACHINE COATED DRYVIT EPS SHAPES AND STARTER BOARDS SHALL BE IN ACCORDANCE WITH DRYVIT PUBLICATION DS854.
3.04 FIELD QUALITY CONTROL
A. THE LATH AND WATER-RESISTIVE BARRIER INSTALLATION SHALL BE INSPECTED AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT PRIOR TO PLASTER MATERIALS BEING APPLIED.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THE COMMERCIAL CEMENT PLASTER 2 MATERIALS.
C. DRYVIT ASSUMES NO RESPONSIBILITY FOR ON-SITE INSPECTIONS OR APPLICATION OF ITS PRODUCTS.
3.05 CLEANING
A. ALL EXCESS COMMERCIAL CEMENT PLASTER 2 MATERIALS SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR IN ACCORDANCE WITH CONTRACT PROVISIONS.
B. ALL SURROUNDING AREAS, WHERE THE DRYVIT COMMERCIAL CEMENT PLASTER 2 HAS BEEN APPLIED, SHALL BE LEFT FREE OF DEBRIS AND FOREIGN SUBSTANCES RESULTING FROM THE CONTRACTOR'S WORK.
3.06 PROTECTION
A. THE COMMERCIAL CEMENT PLASTER 2 MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER DAMAGE UNTIL PERMANENT PROTECTION IN THE FORM OF FLASHINGS, SEALANTS, ETC. ARE INSTALLED.
END OF SECTION 09245

SECTION 09900 - PAINTING

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUMMARY: PAINT ALL EXPOSED SURFACES, UNLESS OTHERWISE INDICATED.
1. PAINT THE BACK SIDE OF ACCESS PANELS.
2. COLOR CODE MECHANICAL PIPING IN ACCESSIBLE CEILING SPACES.
3. DO NOT PAINT PREFINISHED ITEMS, FINISHED METAL SURFACES, OPERATING PARTS, LABELS, AND MATERIALS OBVIOUSLY INTENDED TO BE LEFT EXPOSED SUCH AS BRICK AND TILE.
4. UNLESS OTHERWISE INDICATED DO NOT PAINT CONCEALED SURFACES.
B. SUBMITTALS: PRODUCT DATA AND COLOR SAMPLES.
C. MOCKUPS: FULL-COAT FINISH SAMPLE (BENCHMARK SAMPLE) OF EACH TYPE OF COATING, SUBSTRATE, COLOR, AND FINISH REQUIRED IN AREA OF NOT LESS THAN 100 SQ. FT (9 SQ. M). COMPLY WITH PDCA P5.
D. OBTAIN BLOCK FILLERS, PRIMERS, AND UNDERCOAT MATERIALS FOR EACH COATING SYSTEM FROM THE SAME MANUFACTURER AS THE FINISH COATS.
E. EXTRA MATERIALS: DELIVER TO OWNER A 1-GAL. (3.8-L) CONTAINER, PROPERLY LABELED AND SEALED, OF EACH COLOR AND TYPE OF FINISH COAT PAINT USED ON PROJECT.
PART 2 - PRODUCTS
2.1 PAINT
A. SEE DRAWINGS
1. COLORS: AS SELECTED OR AS SCHEDULED.
B. MATERIAL QUALITY: MANUFACTURER'S BEST-QUALITY OF COATING TYPES SPECIFIED.
C. MATERIAL COMPATIBILITY: COMPLETE SYSTEM OF COMPATIBLE COMPONENTS THAT IS RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED.
PART 3 - EXECUTION
3.1 APPLICATION
A. COMPLY WITH PAINT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SURFACE PREPARATION, ENVIRONMENTAL AND SUBSTRATE CONDITIONS, PRODUCT MIXING, AND APPLICATION.
3.2 EXTERIOR/INTERIOR PAINT APPLICATION SCHEDULE
A. AS SHOWN BELOW AND ON DRAWINGS, IF NOT SHOWN, TO BE SPECIFIED BY OWNERS REP.
B. EXTERIOR WOOD - PAINTED
1. 1ST COAT - ALKYD EXTERIOR PRIMER
2. 2ND COAT - LATEX EXTERIOR TRIM
3. 3RD COAT - LATEX EXTERIOR TRIM
C. EXTERIOR CONCRETE, CONCRETE BLOCK, CEMENT PLASTER (STUCCO) AND EFIS
1. 1ST COAT - ACRYLIC MASONRY SEALER
2. 2ND COAT - LATEX EXTERIOR
3. 3RD COAT - LATEX EXTERIOR
D. EXTERIOR GYPSUM BOARD AND CEMENTITIOUS MATERIALS
1. 1ST COAT - LATEX EXTERIOR
2. 2ND COAT - LATEX EXTERIOR
E. EXTERIOR STEEL - SHOP PRIMED
1. TOUCH-UP PRIMER - ALKYD METAL PRIMER
2. 2ND COAT - ACRYLIC GLOSS ENAMEL
3. 3RD COAT - ACRYLIC GLOSS ENAMEL
F. EXTERIOR STEEL - GALVANIZED
1. 1ST COAT - ACRYLIC METAL PRIMER
2. 2ND COAT - ACRYLIC GLOSS ENAMEL
3. 3RD COAT - ACRYLIC GLOSS ENAMEL
G. INTERIOR WOOD - PAINTED
1. 1ST COAT - LATEX PRIMER
2. 2ND COAT - LATEX SEMI-GLOSS
3. 3RD COAT - LATEX SEMI-GLOSS
H. INTERIOR CONCRETE, CONCRETE BLOCK, AND CEMENT PLASTER
1. 1ST COAT - LATEX BLOCK FILLER
2. 2ND COAT - LATEX SEMI-GLOSS
3. 3RD COAT - LATEX SEMI-GLOSS
I. INTERIOR STEEL - UNPRIMED
1. 1ST COAT - ALKYD METAL PRIMER
2. 2ND COAT - ACRYLIC GLOSS ENAMEL
3. 3RD COAT - ACRYLIC GLOSS ENAMEL
J. INTERIOR STEEL - PRIMED
1. TOUCH-UP PRIMER - ALKYD METAL PRIMER
2. 2ND COAT - ACRYLIC GLOSS ENAMEL
3. 3RD COAT - ACRYLIC GLOSS ENAMEL
K. INTERIOR STEEL - GALVANIZED
1. 1ST COAT - ALKYD METAL PRIMER
2. 2ND COAT - ACRYLIC GLOSS ENAMEL
3. 3RD COAT - ACRYLIC GLOSS ENAMEL
L. INTERIOR WALLS - GYPSUM BOARD
1. 1ST COAT - LATEX PRIMER
2. 2ND COAT - LATEX EGG SHELL
3. 3RD COAT - LATEX EGG SHELL
M. INTERIOR FIRE RETARDANT
1. 1ST COAT - CODE COMPLIANT, FIRE RETARDANT PAINT
END OF SECTION 09910

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

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seal

no.	date	revision descriptions

MULTITENANT
RETAIL AT DELAND
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DELAND, FL

04.08.2026
date
25026
comm. no.
ARCHITECTURAL SPECIFICATIONS

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KEYNOTE SCHEDULE

NOTES:
A. NOTES PROVIDED ON THIS SHEET ARE ASSOCIATED WITH THE KEYNOTE SYMBOLS PROVIDED THROUGHOUT ALL SHEETS IN THE CONSTRUCTION DOCUMENTS
B. NOTES PROVIDED ON THIS SHEET ARE A MASTER LIST. ALL NOTES MAY NOT APPLY TO THE CONSTRUCTION DOCUMENTS FOR THIS SPECIFIC PROJECT

DIVISION 1 - GENERAL

1.10 ROOF PARAPET, SEE WALL SECTIONS AND ROOF DETAILS
1.20 BUILDING ELEMENT/CONSTRUCTION BEYOND
1.21 DASHED LINE INDICATES OUTLINE OF ROOF BEYOND OR ABOVE
1.30 PARAPET BREAK FOR ROOF ACCESS, REFER TO ROOF PLAN
1.32 PARAPET RETURN ON ROOF, SEE ROOF PLAN AND EXTERIOR ELEVATIONS
1.40 BULKHEAD OR SOFFIT ABOVE, SEE REFLECTED CEILING PLAN AND/OR WALL SECTIONS
1.41 DASHED LINE INDICATES CANOPY OR AWNING ABOVE (OR BELOW AS APPLICABLE). REFER TO WALL SECTIONS AND EXTERIOR ELEVATIONS
1.42 OUTLINE OF RTU CURB ABOVE
1.50 LINE OF WALL BELOW
1.51 DASHED LINE INDICATES LOCATION OF ROOF JOIST FRAMING BELOW. REFER TO WALL SECTIONS AND STRUCTURAL DRAWINGS

DIVISION 2 - SITE CONSTRUCTION

2.01 PROPERTY OR LOT LINE, REFER TO CIVIL DRAWINGS
2.10 REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT/SURFACING BEYOND BUILDING AND SIDEWALK INCLUDING ALL PAVEMENT MARKINGS, PARKING STRIPPING, HC GRAPHICS, CROSSWALKS AND DIRECTIONAL ARROWS
2.20 CONCRETE SIDEWALK, 4" THICK 3,000 PSI W/ 6 X 6, W1.4 X W1.4 WWM. PROVIDE 12" DEEP X 8" WIDE TURNED DOWN EDGE WITH (1) #5 REBAR CONTINUOUS AT PERIMETER. REFER TO ARCHITECTURAL SITE PLAN ON **SHEET A5.1** FOR REQUIREMENTS
2.23 CONCRETE CURB, REFER TO CIVIL DRAWINGS FOR REQUIREMENTS
2.25 6" THICK CONCRETE WITH INTEGRAL COLOR (NUMBER CCI50/6 AS MANUFACTURED BY INCRETE SYSTEMS) REQUIRED AT **DRIVE-THRU LANE AND DUMPSTER ENCLOSURE**, REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DRAWINGS FOR EXTENTS
2.27 CONCRETE WHEEL STOP, REFER TO CIVIL DRAWINGS
2.30 LANDSCAPE AREA, REFER TO CIVIL AND LANDSCAPE DRAWINGS
2.33 DASHED LINE INDICATES PVC DRAIN FROM LANDSCAPE AREA THROUGH THICKENED SIDEWALK. DISCHARGE AT FACE OF CURB. REFER TO DETAIL ON **SHEET A5.2**
2.34 DASHED LINE INDICATES 4" WIDE TRENCH DRAIN WITH GRATE IN THICKENED SIDEWALK. DISCHARGE AT FACE OF CURB. REFER TO DETAIL ON SHEET A5.2
2.40 HANDICAP RAMP WITH 1:12 MAXIMUM SLOPE, REFER TO CIVIL DRAWINGS
2.42 EXPOSED AGGREGATE DETECTABLE WARNING SURFACE, LARGE AGGREGATE GRAVEL AASHTO #3 OR #57
2.50 HANDICAPPED PARKING SIGN. REFER TO CIVIL DRAWINGS
2.60 BIKE RACK, REFER TO CIVIL DRAWINGS
2.61 STEEL PIPE BOLLARD, SCHEDULE 40 WITH GROUT FILL (SIZE AS INDICATED). STEEL TO BE RUST FREE PRIMED AND PAINTED TRAFFIC YELLOW UNLESS OTHERWISE NOTED. REFER TO DETAIL ON **SHEET A5.2**
2.62 STEEL PIPE BOLLARD, SCHEDULE 40 WITH GROUT FILL (SIZE AS INDICATED). STEEL TO BE RUST FREE AND PRIME COATED. PROVIDE POLYETHYLENE BOLLARD COVER MANUFACTURED BY IDEAL SHIELD, TEL. (313) 842-7290. COLOR SHALL BE DUTCH BROS BLUE. REFER TO DETAIL ON SHEET A5.2
2.70 CHRISTY BOX FOR FUTURE DRIVE-THRU EQUIPMENT. REFER TO DETAIL ON SHEET A5.2 AND ELECTRICAL DRAWINGS
2.80 TRANSFORMER ON CONCRETE PAD, REFER TO CIVIL AND ELECTRICAL DRAWINGS
2.90 DUMPSTER ENCLOSURE, REFER TO DETAILS ON **SHEET A5.2**. SEE ALSO EXTERIOR FINISH SCHEDULE

DIVISION 3 - CONCRETE

3.03 PROVIDE SOLID CONCRETE FILL AT CMU CELLS BELOW FINISHED FLOOR (OR AS SHOWN)
3.10 CONTINUOUS CONCRETE FOOTING, REFER TO FOUNDATION PLAN AND DETAILS FOR REQUIREMENTS
3.23 SHADED AREA / DASHED LINE INDICATES CONCRETE SLAB LEAVE-OUT; SLAB BY FUTURE TENANT (UNDER SEPARATE PERMIT). REFER TO STRUCTURAL FOUNDATION PLAN AND DETAILS
3.24 CONCRETE CAP AT FOUNDATION WALL WHERE STOREFRONT OR DOOR OPENING OCCURS ADJACENT TO CONCRETE SLAB LEAVE-OUTS. REFER TO WALL SECTIONS AND STRUCTURAL DRAWINGS
3.25 PARTIAL SLAB / FOUNDATION AT DEMISING WALL, REFER TO STRUCTURAL DRAWINGS
3.30 CAST-IN-PLACE CONCRETE BEAM, REFER TO STRUCTURAL DRAWINGS
3.31 CAST-IN-PLACE CONCRETE COLUMN, REFER TO STRUCTURAL DRAWINGS

DIVISION 4 - MASONRY

4.02 MASONRY CONTROL JOINT WITH BACKER ROD AND SEALANT. SEALANT TO MATCH ADJACENT MATERIAL. REFER TO EXTERIOR ELEVATIONS AND STRUCTURAL DRAWINGS
4.10 CONCRETE MASONRY UNIT (CMU), WIDTH AS INDICATED, REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT AND FILLED CELL LOCATIONS
4.12 PRECAST CONCRETE LINTEL, GROUT FILLED WITH GROUT FILLED KNOCK-OUT BLOCK ABOVE (AS APPLICABLE), REFER TO STRUCTURAL DRAWINGS EXACT CONFIGURATION AND REINFORCEMENT REQUIREMENTS
4.13 CMU KNOCK-OUT BLOCK BOND BEAM, GROUT FILLED. REFER TO STRUCTURAL DRAWINGS EXACT CONFIGURATION AND REINFORCEMENT REQUIREMENTS
4.20 THIN BRICK VENEER OVER PAPER BACKED, GALVANIZED WIRE LATH AND TYVEK BUILDING WRAP ON 5/8" DENSGLASS SHEATHING. AT CMU LOCATIONS, PROVIDE THIN BRICK VENEER OVER GALVANIZED WIRE LATH ON BITUMINOUS WATERPROOFING ON CMU. REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS
4.32 CAST STONE CONCRETE WATERTABLE, ROCKCAST NO. SL-100, COLOR - MATCH BRICK, TEL. 1(800)482-6466. REFER TO PROFILE ON SHEET A5.0

DIVISION 5 - METALS

5.10 STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS
5.11 STEEL BEAM, REFER TO STRUCTURAL DRAWINGS
5.12 STEEL ANGLE, REFER TO STRUCTURAL DRAWINGS
5.13 STEEL CHANNEL, REFER TO STRUCTURAL DRAWINGS
5.14 H.S.S. FRAMING, REFER TO STRUCTURAL DRAWINGS
5.20 STEEL JOIST, REFER TO STRUCTURAL DRAWINGS
5.23 STEEL PIPE PARAPET BRACING, REFER TO STRUCTURAL DRAWINGS
5.30 METAL ROOF OR FLOOR DECK, REFER TO STRUCTURAL DRAWINGS
5.40 METAL STUD FRAMING (WIDTH AS INDICATED), REFER TO STRUCTURAL DRAWINGS FOR GAUGE, SPACING AND CONNECTION DETAILS
5.42 METAL CLIP ANGLE, REFER TO STRUCTURAL DRAWINGS FOR SIZE, GAUGE AND FASTENING REQUIREMENTS
5.45 7/8" METAL HAT CHANNEL FURRING AT 16" O.C. (VERTICAL)
5.50 ROOF ACCESS LADDER WITH LOCKABLE SECURITY ENCLOSURE. REFER TO EXTERIOR ELEVATIONS AND DETAIL ON **SHEET A5.2**
5.70 18 GAUGE FLAT STOCK METAL FABRICATED TO WRAP OUTSIDE CORNER
5.80 VERTICAL WALL REINFORCEMENT IN GROUT FILLED CELL, TYP. REFER TO STRUCTURAL DRAWINGS

DIVISION 6 - WOOD AND PLASTICS

6.10 PT 2 X WOOD BLOCKING, BUCK OR DRAFT STOP
6.11 PT 1 X WOOD BLOCKING OR BUCK
6.12 PT WOOD SHIM AS REQUIRED
6.15 PT 2 X WOOD PLATE WITH 1/2" DIAMETER ANCHOR BOLTS (6" MINIMUM EMBEDMENT) AT 4'-0" O.C. MAXIMUM. IN LIEU OF SPECIFIED ANCHOR BOLT, 1/4" DIA. X 4" LONG TAPCONS STAGGERED AT 24" O.C. MAY BE PROVIDED FOR PLATE ATTACHMENT. FASTENERS SHALL BE PLACED MINIMUM 2 1/2" FROM EDGE OF WOOD PLATE
6.20 1/4" CDX PLYWOOD, REFER TO STRUCTURAL DRAWINGS AS REQUIRED
6.21 5/8" CDX PLYWOOD, REFER TO STRUCTURAL DRAWINGS AS REQUIRED
6.22 1/2" CDX PLYWOOD, REFER TO STRUCTURAL DRAWINGS AS REQUIRED

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

7.03 PRE-FORMED JOINT FILLER (3/4" MAX.) CUT BACK EXCESS BELOW SLAB AND PROVIDE SEALANT BEAD, CONTINUOUS. DO NOT PLUG WEEP HOLES
7.04 PROVIDE ROOFTOP WALKWAY PADS AS SHOWN AND AROUND ALL ROOFTOP EQUIPMENT
7.07 PROVIDE LIQUID BITUMINOUS DAMP-PROOFING AT PLYWOOD SURFACES PRIOR TO INSTALLATION OF ALUMINUM BREAK METAL
7.08 SEALANT AND BACKER ROD, CONTINUOUS. SEALANT COLOR TO MATCH ADJACENT MATERIAL AS APPLICABLE
7.09 SEALANT BEAD, CONTINUOUS. SEALANT COLOR TO MATCH ADJACENT MATERIAL AS APPLICABLE
7.12 SINGLE-PLY ROOF MEMBRANE OVER (**R-23**) RIGID INSULATION, REFER TO SPECIFICATIONS
7.13 SINGLE-PLY ROOF MEMBRANE FULLY ADHERED TO REAR FACE OF PARAPET (OR CURB). EXTEND FROM TOP OF COUNTERFLASHING (OR ROOF AS APPLICABLE), OVER PARAPET AND TERMINATE BEHIND HOLD DOWN CLEAT
7.14 ROOFING MEMBRANE EDGE REINFORCEMENT
7.15 ROOFING MEMBRANE FLASHING STRIP OVER TPO COATED ROOF EDGE METAL
7.16 MANUFACTURER APPROVED PLATES FASTENED WITH MANUFACTURER APPROVED FASTENERS
7.18 HEAT WELDED SEAM AT SINGLE-PLY MEMBRANE
7.19 ROOFING SYSTEM TERMINATION BAR BETWEEN ROOF MEMBRANE AND WALL FINISH
7.30 PREFINISHED ALUMINUM DOWNSPOUT (SIZE AS INDICATED ON ROOF PLAN) WITH STRAPS AT 6'-0" O.C. MAXIMUM, REFER TO EXTERIOR ELEVATIONS, EXTERIOR FINISH SCHEDULE AND ROOF PLAN. WHERE APPLICABLE, EXTEND BELOW GRADE TO STORM SEWER PER CIVIL DRAWINGS AND PROVIDE CAST TRANSITION BOOT WITH CLEANOUT. J.R. HOE AND SONS A-STYLE. SEE DETAIL ON **SHEET A5.1**
7.31 PREFINISHED ALUMINUM DOWNSPOUT (SIZE AS INDICATED ON ROOF PLAN) WITH STRAPS AT 6'-0" O.C. MAXIMUM, DISCHARGE INTO TRENCH DRAIN
7.32 PREFINISHED ALUMINUM CONDUCTOR HEAD, 16" WIDE X 12" HIGH X 10" DEEP. REFER TO ROOF PLAN AND DETAILS
7.33 PREFINISHED ALUMINUM SCUPPER / EMERGENCY OVERFLOW SCUPPER, 16" W X 8" HIGH. REFER TO ROOF PLAN AND DETAILS
7.34 PREFINISHED ALUMINUM DOWNSPOUT (SIZE AS INDICATED ON ROOF PLAN) WITH STRAPS AT 6'-0" O.C. MAXIMUM, DISCHARGE ONTO DRIVE-THRU CURB
7.55 TAPERED INSULATION, WITH 1/2" PER FOOT MINIMUM SLOPE. PROVIDE AT LOCATIONS INDICATED INCLUDING ALL ROOF MOUNTED EQUIPMENT CURBS
7.59 PROVIDE CUSTOM, PREFINISHED ALUMINUM TRIM AT CWPS TERMINATION. COORDINATE WITH CWPS SUBCONTRACTOR
7.60 PROVIDE TYVEK COMMERCIAL WRAP AT FRAMED SUBSTRATES AND FLUID APPLIED TYVEK AT CMU BEHIND COMPOSITE WALL PANELS. LAP SHEETS AND FLASH OPENINGS PER MANUFACTURER'S INSTRUCTIONS
7.61 COMPOSITE WALL PANEL SYSTEM (CWPS), REFER TO EXTERIOR FINISH SCHEDULE AND SPECIFICATIONS
7.62 CWPS CORNER KEY TRIM, PAINTED. (PRE-FORMED CWPS CORNERS NOT ACCEPTABLE)
7.63 CWPS STARTER TRACK
7.64 CWPS CLIP
7.65 CWPS SPACER
7.70 PROVIDE CUSTOM ALUMINUM TRIM AT CWPS TERMINATION, PAINTED. COORDINATE WITH CWPS SUBCONTRACTOR
7.79 PREFINISHED ALUMINUM FLASHING OR COUNTERFLASHING, REFER TO EXTERIOR FINISH SCHEDULE
7.80 PREFINISHED 24 GA. ALUMINUM COPING, SLOPED TO FACILITATE DRAINAGE. SEE TYP. ROOF DETAILS. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR
7.81 PREFINISHED 24 GA. METAL DRIP EDGE / GRAVEL STOP (4" OR AS INDICATED). SET IN BED OF COMPATIBLE ROOF CEMENT AND AFFIX WITH CONTINUOUS HOLD DOWN CLEAT. PRIME COAT TOP PRIOR TO APPLICATION OF SINGLE-PLY FLASHING STRIP. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR
7.87 MECHANICAL FASTENER WITH NEOPRENE WASHER
7.88 FLASHING AT ROOF SIDE OF SCUPPER OPENING
7.98 PROVIDE (3) ONE INCH DIAMETER OVERFLOW HOLES

DIVISION 8 - DOORS AND WINDOWS

8.01 IN FLORIDA LOCATIONS, ALUMINUM STOREFRONT ENTRANCE SYSTEMS SHALL PER INSTALLED WITH ANCHORS AS STIPULATED IN THE MANUFACTURER'S FLORIDA PRODUCT APPROVAL DATA. REFER TO THE FLORIDA PRODUCT APPROVAL INDEX ON **SHEET A.0** FOR THE APPROPRIATE FLORIDA PRODUCT NUMBER
8.02 ALUMINUM SILL PAN FLASHING WITH FINISH TO MATCH ALUMINUM STOREFRONT FRAME COMPONENTS. INSTALL PER MANUFACTURER'S RECOMMENDED DETAILS. SET IN SEALANT BED, OVER SLAB OR WALL EDGE AND EXTEND UP INSIDE FRAME FACE 3/4" MINIMUM
8.04 PREFINISHED ALUMINUM BREAK METAL TO MATCH ALUMINUM STOREFRONT FRAME COMPONENTS. REFER TO EXTERIOR FINISH SCHEDULE
8.10 ALUMINUM STOREFRONT SYSTEM, REFER TO FRAME OPENING SCHEDULE AND EXTERIOR FINISH SCHEDULE
8.11 ALUMINUM STOREFRONT ENTRANCE SYSTEM, REFER TO FRAME OPENING SCHEDULE AND EXTERIOR FINISH SCHEDULE
8.12 DRIVE-THRU / WALK-UP TRANSACTION WINDOW, REFER TO FRAME OPENING SCHEDULE
8.20 HOLLOW METAL DOOR AND FRAME, REFER TO FRAME OPENING SCHEDULE. PROVIDE (3) JAMB ANCHORS PER SIDE
8.50 ADA COMPLIANT ALUMINUM THRESHOLD, 1/4" HIGH X 4" WIDE X FULL LENGTH OF OPENING. THRESHOLD SHALL HAVE BEVELED EDGES AND SHALL BE RIBBED. SET IN BED OF SEALANT
8.57 RAIN DRIP, REFER TO HARDWARE SCHEDULE

DIVISION 9 - FINISHES

9.10 1-HOUR RATED DEMISING WALL. CONSTRUCT PER U.L. ASSEMBLY U-465 WITH (1) LAYER OF 5/8" FIRE RATED GWB EACH SIDE OVER 6" 20 GA. METAL STUDS AT 16" O.C. PROVIDE SOUND ATTENUATION BATT INSULATION CONTINUOUS AT CAVITY. EXTEND ALL FULL HEIGHT TO UNDERSIDE OF ROOF DECK. REFER TO U.L. ASSEMBLY DETAILS ON **SHEET A6.0**. GWB SHALL BE SPECIFIC TYPE AND MANUFACTURER LISTED IN SPECIFIED U.L. ASSEMBLY DETAIL. USE MOISTURE RESISTANT GWB AT ALL UNCONDITIONED SPACES. PROVIDE MOLD AND MILDEW PREVENTION COATING. REFER TO SPECIFICATION SECTION 09260
9.13 EXPOSED CONCRETE BLOCK FINISH AT ALL PERIMETER CMU WALLS WITHIN TENANT SPACE AS INDICATED. FURRING, INSULATION AND GWB SHALL BE PROVIDED DURING FUTURE TENANT BUILD-OUT BY OTHERS (UNDER SEPARATE PERMIT)
9.40 ACRYLIC (EIFS) FINISH COAT OVER 3/4" PORTLAND CEMENT BASE OVER CMU. REFER TO EXTERIOR ELEVATIONS AND EXTERIOR FINISH SCHEDULE FOR TEXTURE AND COLOR REQUIREMENTS
9.41 ACRYLIC (EIFS) FINISH COAT OVER 3/4" PORTLAND CEMENT BASE OVER PAPER BACKED GALVANIZED WIRE LATH OVER 'TYVEK' BUILDING WRAP ALL OVER 5/8" CDX PLYWOOD SHEATHING. REFER TO EXTERIOR ELEVATIONS AND EXTERIOR FINISH SCHEDULE FOR TEXTURE AND COLOR REQUIREMENTS
9.42 ACRYLIC DIRECT APPLIED EXTERIOR FINISH SYSTEM ('DEFS') OVER 5/8" DENS GLASS SHEATHING OR CMU
9.44 CONTROL JOINT IN CEMENT PLASTER, 'W' SHAPE. 'CLARK DIETRICH BUILDING SYSTEMS' #15 ZINC DOUBLE-V CONTROL JOINT WITH EXPANDED WIRE MESH FLANGES
9.47 GWB OR CEMENT PLASTER 'J' MOLD, CONTINUOUS. PROVIDE FINISH TO MATCH WALL OR CEILING SURFACE
9.52 EXPOSED STRUCTURE, NO CEILING REQUIRED

DIVISION 10 - SPECIALITIES

10.05 TENANT ADDRESS/SPACE NUMBER. PROVIDE MIN. 6" HIGH NUMBERS (IN CONTRASTING COLOR TO BACKGROUND) SO THAT NUMBERS ARE PLAINLY VISIBLE FROM THE STREET. REFER TO NOTES ON **SHEET A3.0**
10.09 WALL MOUNTED DIGITAL MENU BOARD LOCATION. SIGN TO BE PERMITTED AND INSTALLED BY TENANT'S SIGN VENDOR. SHELL G.C. SHALL REFER TO ELECTRICAL FOR POWER REQUIREMENTS. PROVIDE 5/8" CDX PLYWOOD SHEATHING IN LIEU OF DENSGLASS SHEATHING WHERE APPLICABLE AT SIGN LOCATIONS
10.10 WALL SIGN LOCATION. SIGN TO BE PERMITTED AND INSTALLED BY TENANT'S SIGN VENDOR. SHELL G.C. SHALL REFER TO ELECTRICAL FOR POWER REQUIREMENTS. PROVIDE 5/8" CDX PLYWOOD SHEATHING IN LIEU OF DENSGLASS SHEATHING WHERE APPLICABLE AT SIGN LOCATIONS. RUN ALL CONDUIT TIGHT TO ROOF STRUCTURE. SEAL ALL WALL PENETRATIONS
10.11 PYLON OR MONUMENT SIGN. REFER TO WORK SCOPE SUMMARY ON **SHEET A5.1** FOR COMPLETE PERMITTING AND CONSTRUCTION RESPONSIBILITIES. REFER ALSO TO ELECTRICAL DRAWINGS
10.14 FUTURE MENU BOARD, FURNISHED AND INSTALLED BY TENANT (UNDER SEPARATE PERMIT). REFER TO WORK SCOPE SUMMARY ON **SHEET A5.1** FOR COMPLETE PERMITTING AND CONSTRUCTION RESPONSIBILITIES. REFER ALSO TO ELECTRICAL DRAWINGS
10.15 FUTURE ILLUMINATED DIRECTIONAL SIGN, FURNISHED AND INSTALLED BY TENANT (UNDER SEPARATE PERMIT). REFER TO WORK SCOPE SUMMARY ON **SHEET A5.1** FOR COMPLETE PERMITTING AND CONSTRUCTION RESPONSIBILITIES. REFER ALSO TO ELECTRICAL DRAWINGS
10.17 FUTURE HEIGHT RESTRICTION BAR, FURNISHED AND INSTALLED BY TENANT (UNDER SEPARATE PERMIT). REFER TO WORK SCOPE SUMMARY ON **SHEET A5.1** FOR COMPLETE PERMITTING AND CONSTRUCTION RESPONSIBILITIES. REFER ALSO TO ELECTRICAL DRAWINGS
10.18 TRAFFIC DETECTOR LOOP, FURNISHED BY TENANT AND INSTALLED BY GC. REFER TO WORK SCOPE SUMMARY ON **SHEET A5.1** FOR COMPLETE PERMITTING AND CONSTRUCTION RESPONSIBILITIES. REFER ALSO TO ELECTRICAL DRAWINGS
10.60 FIRE EXTINGUISHER, 5LB 2A-10B-C WITH SURFACE MOUNTED WALL BRACKET

DIVISION 13 - SPECIAL CONSTRUCTION

13.20 ALUMINUM FRAMED AWNING WITH FABRIC COVERING. SEE DETAILS ON **SHEET A1.3** AND EXTERIOR FINISH SCHEDULE
13.22 PRE-ENGINEERING ALUMINUM CANOPY, PREFINISHED. REFER TO DETAILS ON SHEET A1.3. REFER ALSO TO EXTERIOR FINISH SCHEDULE ON SHEET A3.0
13.30 ALUMINUM TUBE AWNING FRAME, 1 1/2" X 1 1/2". REFER TO DETAIL ON **SHEET A1.3** AND EXTERIOR FINISH SCHEDULE
13.31 PROVIDE WELDED ALUMINUM CAP PLATE AT ENDS OF ALL ALUMINUM TUBE COMPONENTS
13.32 AWNING ATTACHMENT TO WALL (INCLUDING FASTENERS AND INTERNAL WALL BLOCKING SHALL BE SPECIFIED IN THE AWNING FABRICATOR'S ENGINEERED SHOP DRAWINGS. SEE NOTES AND DETAILS ON **SHEET A1.3**
13.33 NEOPRENE COMPRESSIBLE GASKET BETWEEN AWNING FRAME AND WALL PROVIDED AND INSTALLED BY AWNING INSTALLER
13.90 DRIVE-THRU / WALK-UP WINDOW SHELF AND SUPPORT BRACKETS, INSTALL CENTERED ON WINDOW. SHELF BRACKETS TO BE SUPPLIED BY DUTCH BROS AND INSTALLED BY GENERAL CONTRACTOR

DIVISION 15 - MECHANICAL

15.06 LIFT STATION, REFER TO CIVIL AND ELECTRICAL DRAWINGS
15.10 ROOFTOP HVAC UNIT AND CURB. SEE ROOF PLAN, MECHANICAL AND STRUCTURAL DRAWINGS. REFER TO CURB DETAIL ON **SHEET A1.2A**. ALL RTU'S TO BE LOCATED 10'-0" MINIMUM FROM PARAPET WALLS. COORDINATE RTU LOCATIONS WITH ROOF FRAMING PLAN (EXACT LOCATIONS MAY BE SHIFTED TO ALIGN WITH STEEL JOIST LAYOUT)
15.16 ROOF CURB FOR FUTURE RTU. PROVIDE WEATHER-TIGHT SHEET METAL CAP
15.41 HOSE BIBB IN RECESSED, FROST-FREE, KEYED BOX. REFER TO PLUMBING DRAWINGS. WHERE APPLICABLE, COORDINATE LOCATION WITH TENANT REPRESENTATIVE
15.42 GREASE INTERCEPTOR, REFER TO CIVIL AND PLUMBING DRAWINGS
15.50 VENT THRU ROOF (VTR), REFER TO PLUMBING DRAWINGS AND DETAIL ON **SHEET A1.2A**. LOCATE VTR SO 15'-0" MINIMUM FROM RTU FRESH AIR INTAKES. COORDINATE IN FIELD

DIVISION 16 - ELECTRICAL

16.10 LOCATION OF ELECTRIC SERVICE, HOUSE PANEL, AND TELEPHONE/CABLE CABINETS. REFER TO ELECTRICAL DRAWINGS. WHERE APPLICABLE, PROVIDE 5/8" CDX PLYWOOD SHEATHING IN LIEU OF DENSGLASS SHEATHING. PAINT ALL EQUIPMENT AND CONDUIT TO MATCH ADJACENT WALL COLOR
16.20 ELECTRICAL PANEL, REFER TO ELECTRICAL DRAWINGS. WHERE APPLICABLE, CONFIRM PLACEMENT WITH TENANT REPRESENTATIVE
16.30 WALL PACK LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
16.31 DECORATIVE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
16.32 CEILING MOUNTED LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
16.33 EMERGENCY LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
16.38 EXIT SIGN / EMERGENCY LIGHT COMBINATION FIXTURE, REFER TO ELECTRICAL DRAWINGS
16.39 TEMPORARY STRIP LIGHTING, REFER TO ELECTRICAL DRAWINGS
16.53 POLE MOUNTED SITE LIGHTING, REFER TO CIVIL DRAWINGS

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

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seal

no.	revision descriptions	date

MULTITENANT RETAIL AT DELAND
2235 S. WOODLAND BLVD
DELAND, FL

04.08.2026
date
25026
comm. no.
KEYNOTE SCHEDULE

A0.4

4/9/2026 8:23 AM

SHOP DRAWING SUBMITTAL REQUIREMENTS

REQ'D		REQ'D		REQ'D		REQ'D	
●	DIVISION 02 - SITE WORK		DIVISION 5 - METALS	●	ROOFING		DIVISION 9 - FINISHES
●	TERMITE TREATMENT	●	REBAR (SEE CONCRETE AND MASONRY)	●	ROOFING SYSTEM AS SPECIFIED		EXTERIOR INSULATED FINISH SYSTEM (TRIM PROFILES)
●	PRODUCT DATA OF REGISTERED TERMICIDES	●	STRUCTURAL STEEL	●	FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION		FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION (EXTERIOR APPLICATION)
●	CERTIFICATE OF COMPLIANCE	●	SHOP DRAWINGS	●	APPROVED FOR USE OUTSIDE HVHZ		APPROVED FOR USE OUTSIDE HVHZ
●	SUBMIT TO BUILDING DEPARTMENT UPON COMPLETION	●	ANCHOR BOLTS LAYOUT		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DATE COUNTY)		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)
●	CONTAINS REQUIRED STATEMENT PER FBC 1816.1	●	STEEL ERECTION AND FABRICATION DRAWINGS	●	PRODUCT DATA / CUT SHEETS WITH REQUIRED ACCESSORIES		PRODUCT DATA / CUT SHEETS WITH ALL REQUIRED ACCESSORIES
	PATIO RAILING	●	TEST REPORT AND CERTIFICATES		ASPHALT SHINGLES		SHOP DRAWINGS WITH PROJECT SPECIFIC DETAILS
	PRODUCT DATA AND CUT SHEETS	●	WELDER QUALIFICATIONS		ROOF TILES		COLOR SELECTION CHART (IF NOT AS SPECIFIED)
	DETAILS	●	MILL ANALYSIS AND TEST REPORTS		ARCHITECTURAL STANDING SEAM		SAMPLES FOR VERIFICATION (IF NOT AS SPECIFIED)
	SAMPLES (ONLY WHEN DEVIATING FROM SPECIFIED OR WHEN UNSPECIFIED)	●	METAL JOISTS		STRUCTURAL SEAMED METAL	●	STUCCO
	PATIO PAVERS	●	ERECTION PLANS AND DETAILS	●	MEMBRANE ROOFING	●	PRODUCT DATA / CUT SHEETS WITH ALL REQUIRED ACCESSORIES
	PRODUCT DATA AND CUT SHEETS	●	METAL DECK		BUILT - UP	●	DIRECT APPLIED TO CONCRETE BLOCK
	DETAILS	●	PRODUCT DATA / CUT SHEETS	●	SINGLE - PLY MEMBRANE	●	STUCCO CEMENT
	SAMPLES (ONLY WHEN DEVIATING FROM SPECIFIED OR WHEN UNSPECIFIED)	●	LAYOUT / ERECTION SHOP DRAWINGS	●	SHOP DRAWINGS WITH PROJECT SPECIFIC DETAILS	●	FIBER REINFORCEMENT
●	BIKE RACK (COORDINATE WITH CIVIL)	●	COLD FORMED / LIGHT GAGE STEEL FRAMING	●	KEY PLAN	●	BONDING AGENT
●	PRODUCT DATA AND CUT SHEETS	●	PRODUCT DATA / CUT SHEETS	●	TERMINATION / TIE - IN DETAILS TO ADJACENT CONSTRUCTION	●	VINYL ACCESSORIES AND WEEP SCREED
●	DETAILS		ENGINEERED SHOP DRAWINGS	●	TAPER INSULATION PLAN WITH DETAILS INDICATING SLOPE	●	ACRYLIC DPR FINISH
●	DOWNSPOUT TRANSITION BOOT		SIGNED AND SEALED ERECTION PLANS W / DETAILS	●	LAYOUT FOR WALKWAY PADS	●	COLOR SELECTION CHART (IF NOT AS SPECIFIED)
●	PRODUCT DATA AND CUT SHEETS		SIGNED AND SEALED CALCULATIONS	●	COLOR SELECTION CHART	●	OVER LATH (FRAMED CONSTRUCTION)
	DIVISION 03 - CONCRETE	●	MISCELLANEOUS METAL FABRICATIONS	●	SAMPLES FOR VERIFICATION (IF NOT AS SPECIFIED)	●	STUCCO CEMENT
●	REINFORCING SHOP DRAWINGS		METAL PANEL	●	SAMPLE WARRANTY	●	FIBER REINFORCEMENT
	SHORING PLAN (IF APPLICABLE)		FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION		15 YEAR NDL	●	PAPER BACKED METAL LATH
●	MIX DESIGN		COLOR SELECTION CHART	●	20 YEAR NDL	●	VINYL ACCESSORIES AND WEEP SCREED
●	INDEX WITH MIX CODE AND DESCRIPTION			●	FLASHING AND SHEET METAL	●	ACRYLIC DPR FINISH
●	ACI STATISTICAL ANALYSIS AND TEST REPORTS	●	LADDERS	●	FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION	●	COLOR SELECTION CHART (IF NOT AS SPECIFIED)
●	AGENTS AND ADMIXTURES PRODUCT DATA	●	SHOP DRAWINGS W / DETAILS	●	APPROVED FOR USE OUTSIDE HVHZ	●	EXTERIOR PAINTING
●	FIBER REINFORCEMENT PRODUCT DATA	●	ROOF ACCESS		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)	●	SCHEDULE
●	CONCRETE ACCESSORIES		ELEVATOR PIT	●	PRODUCT DATA / CUT SHEET - MANUFACTURED PRODUCTS	●	SAMPLES (ONLY WHEN DEVIATING FROM SPECIFIED OR WHEN UNSPECIFIED)
●	VAPOR BARRIER		ELEVATOR SUMP PIT COVERS	●	SHOP DRAWINGS WITH PROJECT SPECIFIC DETAILS TO INCLUDE BUT NOT LIMITED TO:	●	EXTERIOR SHEATHING
	WATER STOP		SHOP DRAWINGS W / DETAILS	●	FLASHING AND COUNTERFLASHING	●	PRODUCT DATA AND CUT SHEETS
●	FIBER EXPANSION JOINT	●	GATES FOR DUMPSTER ENCLOSURE	●	COPING CAP AND EDGE METAL / GRAVEL STOPS FASCIA		PATIO TILE
●	BOND BREAKER	●	SHOP DRAWINGS W / DETAILS	●	SCUPPER, EMERGENCY OVERFLOW AND DOWNSPOUTS		PRODUCT DATA AND CUT SHEETS
●	EVAPORATION RETARDER	●	STEEL PIPE BOLLARDS		GUTTER AND DOWNSPOUTS		
●	CURING COMPOUND	●	SHOP DRAWINGS W / DETAILS	●	ROOF SPECIALTIES		
●	NON-SHRINK GROUT			●	FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION		DIVISION 10 - SPECIALITIES
●	PATCHING MATERIAL		DIVISION 06 - WOOD AND PLASTIC	●	APPROVED FOR USE OUTSIDE HVHZ	●	CANOPIES AND AWNINGS
●	BONDING AGENT		WOOD TRUSSES		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)	●	PRODUCT DATA AND CUT SHEETS
●	EPOXY ADHESIVE		SIGNED AND SEALED ENGINEERED SHOP DRAWINGS		PRODUCT DATA / CUT SHEET - MANUFACTURED PRODUCTS	●	PROJECT SPECIFIC DETAILS
●	DOWELS		SIGNED AND SEALED CALCULATIONS		ROOF ACCESS HATCH	●	ENGINEERING CERTIFICATION
●	WIRE MESH	●	PLYWOOD AND WOOD BLOCKING		ROOF ACCESS EXTENSION POLE	●	SAMPLES (ONLY WHEN DEVIATING FROM SPECIFIED OR WHEN UNSPECIFIED)
●	REINFORCING SUPPORTS	●	PRODUCT DATA / CUT SHEETS		ROOF EXPANSION ASSEMBLIES		GREEN SCREEN
●	PRODUCT DATA AND CUT SHEETS	●	EXTERIOR PRESSURE TREATED		SOFFIT PANELS		PRODUCT DATA AND CUT SHEETS
●	PRECAST CONCRETE LINTELS	●	EXTERIOR FIRE TREATED		MANUFACTURED SOFFIT PANELS AS SPECIFIED		CONFIRMATION OF COLORS OR MATERIALS
●	PRODUCT DATA AND CUT SHEETS		INTERIOR FIRE TREATED		FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION		TOILET ACCESSORIES
	ARCHITECTURAL PRECAST CONCRETE		MILLWORK / CABINETRY		APPROVED FOR USE OUTSIDE HVHZ		PRODUCT DATA AND CUT SHEETS
	PROJECT SPECIFIC DETAILS		FABRICATION SHOP DRAWINGS		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)		
	PRODUCT DATA AND CUT SHEETS		FINISH AND COLOR SELECTION CHARTS		PRODUCT DATA / CUT SHEETS WITH ALL REQUIRED ACCESSORIES		
			SAMPLES FOR VERIFICATION (IF NOT AS SPECIFIED)		SHOP DRAWINGS WITH PROJECT SPECIFIC DETAILS		
	DIVISION 4 - MASONRY				COLOR SELECTION CHART		
●	CONCRETE MASONRY UNITS		DIVISION 7 - THERMAL AND MOISTURE PROTECTION		SAMPLES FOR VERIFICATION (IF NOT AS SPECIFIED)		
●	REINFORCING SHOP DRAWINGS	●	TYPE OF AIR AND WATER - RESISTIVE BARRIER AS SPECIFIED	●	JOINT SEALANTS		
●	GROUT MIX DESIGN	●	PRODUCT DATA / CUT SHEETS TO INCLUDE ALL REQUIRED ACCESSORY PRODUCTS	●	TYPE AND LOCATIONS AS SPECIFIED		
●	ANALYSIS AND TEST REPORTS	●	VAPOR IMPERMEABLE AWB	●	PRODUCT DATA / CUT SHEETS		DIVISION 15 - MECHANICAL / PLUMBING
●	AGENTS AND ADMIXTURES	●	HOT, HUMID CLIMATE (ZONE 1 AND 2)	●	COLOR SELECTION CHART	●	PACKAGED ROOFTOP UNITS
	SPLIT FACE CERTIFICATION AND TEST REPORTS	●	FRAMED CONSTRUCTION - SHEET OR FLUID APPLIED			●	PRODUCT DATA AND CUT SHEETS
●	STANDARD LOAD BEARING UNITS CERTIFICATION AND TEST REPORTS	●	CONCRETE OR CMU BACKUP - FLUID APPLIED		DIVISION 8 - DOORS AND WINDOWS	●	WARRANTY INFORMATION
●	CMU ACCESSORIES PRODUCT DATA	●	VAPOR PERMEABLE AWB	●	DOORS, FRAMES AND FINISH HARDWARE	●	EQUIPMENT CURBS
●	TRUSS/LADDER REINFORCING	●	HOT, HUMID CLIMATE (ZONE 1 AND 2; INTERIOR SURFACES MUST NOT ACT AS VAPOR RETARDER)	●	FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION	●	PRODUCT DATA AND CUT SHEETS
●	WITH ADJUSTABLE BRICK TIE (WHEN REQUIRED)	●	FRAMED CONST. (AS LONG AS INT. SURFACES DO NOT ACT AS VAP. RET. - SHT OR FLUID APP.	●	APPROVED FOR USE OUTSIDE HVHZ		EXHAUST FANS
●	MORTAR MIX	●	CONCRETE OR CMU BACKUP - FLUID APPLIED		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)		PRODUCT DATA AND CUT SHEETS
●	MORTAR COLOR CHART (IF NOT SPECIFIED WHEN USED WITH INTEGRAL COLOR CMU)	●	MIXED CLIMATE (ZONE 3 AND 4)	●	SCHEDULE		DUCTWORK
●	PRECAST LINTEL	●	FRAMED (NO VAPOR RETARDER INSIDE) - SHEET OR FLUID APPLIED	●	OPENINGS SCHEDULE		PRODUCT DATA AND CUT SHEETS
	ADJUSTABLE DOVETAIL ANCHORS (MASONRY TO CONCRETE)	●	CONCRETE OR CMU (NO VAPOR RETARDER INSIDE) - FLUID APPLIED	●	FINISH HARDWARE SCHEDULE		AIR DEVICES
	STANDARD BRICK VENEER		COLD NORTHERN CLIMATE (ZONE 5+ OR HIGH MOISTURE LOADED BUILDINGS)	●	PRODUCT DATA / CUT SHEETS		PRODUCT DATA AND CUT SHEETS
	PRODUCT DATA		FRAMED (VAPOR RETARDER INSIDE) - SHEET OR FLUID APPLIED		ACCESS DOORS AND PANELS	●	PLUMBING FIXTURES
	SAMPLES (WHEN DEVIATING FROM SPECIFIED OR WHEN UNSPECIFIED)		CONCRETE OR CMU (VAPOR RETARDER INSIDE) - FLUID APPLIED		FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION (EXTERIOR APPLICATION)	●	PRODUCT DATA AND CUT SHEETS
	ACCESSORIES PRODUCT DATA	●	JOB SPECIFIC DETAILS AND MANUFACTURERS STANDARD DETAILS		APPROVED FOR USE OUTSIDE HVHZ	●	PIPING MATERIAL AND ACCESSORIES
	BRICK TIE (STANDARD BRICK VENEER)	●	SAMPLE WARRANTY		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)	●	PRODUCT DATA AND CUT SHEETS
	NON-INSULATED CAVITY	●	DAMPROOFING AND WATERPROOFING		PRODUCT DATA / CUT SHEETS		BOOSTER PUMP
	DW-10 ADJUSTABLE - CMU, METAL OR WOOD STUD BACKUP	●	BELOW OR ABOVE GRADE PRODUCTS AS SPECIFIED (ABOVE GRADE IF AIR BARRIER NOT REQUIRED)	●	ENTRANCES AND STOREFRONTS		PRODUCT DATA AND CUT SHEETS
	150 TRUSS BOX - MESH (NON-ADJUSTABLE) - CMU BACKUP	●	PRODUCT DATA/ CUT SHEETS TO INCLUDE ALL REQUIRED ACCESSORY PRODUCTS	●	FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION (EXTERIOR APPLICATION)		ROOF DRAINS
	305 DOVETAIL SLOT W / FLEXIBLE DOVETAIL TIE - CONCRETE	●	DAMPROOFING	●	APPROVED FOR USE OUTSIDE HVHZ		PRODUCT DATA AND CUT SHEETS
	INSULATED CAVITY	●	FLUID - APPLIED		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)		DIVISION 16 - ELECTRICAL
	HB 213 ADJUSTABLE - METAL AND WOOD STUD BACKUP		WATERPROOFING (NON-HYDROSTATIC CONDITION)	●	PRODUCT DATA / CUT SHEETS		SITE LIGHTING
	170 ADJUSTABLE TRUSS - CMU BACKUP		FLUID - APPLIED WATERPROOFING	●	SYSTEM PRODUCT DATA		PRODUCT DATA AND CUT SHEETS
	305 DOVETAIL SLOT W / FLEXIBLE DOVETAIL TIE - CONCRETE		CEMENTITIOUS WATERPROOFING	●	GLAZING PRODUCT DATA / PERFORMANCE CUT SHEET		LIGHT POLE CUT SHEET AND ENGINEERING
	MORTAR MIX		BENTONITE WATERPROOFING	●	SEALANT PRODUCT DATA	●	BUILDING LIGHTING
	MORTAR COLOR CHART (IF NOT SPECIFIED)		SHEET WATERPROOFING	●	ALUMINUM TO ALUMINUM	●	PRODUCT DATA AND CUT SHEETS
	THROUGH WALL FLASHING $ ACCESSORIES		WATERPROOFING (HYDROSTATIC CONDITION W / HEAD PRESSURE)	●	GLAZING TO ALUMINUM	●	LIGHTING CONTROLS
	FLEXIBLE MEMBRANE FLASHING		SHEET WATERPROOFING	●	ALUMINUM TO SUBSTRATE	●	PRODUCT DATA AND CUT SHEETS
	METAL DRIP EDGE	●	JOB SPECIFIC DETAILS AND MANUFACTURER STANDARD DETAILS	●	SHOP DRAWINGS WITH PROJECT SPECIFIC DETAILS TO INCLUDE GLAZING SCHEDULE	●	ELECTRICAL DEVICES SENSORS
	TERMINATION BAR	●	SAMPLE WARRANTY	●	FINISH HARDWARE SCHEDULE	●	PRODUCT DATA AND CUT SHEETS
	MORTAR NET	●	THERMAL PROTECTION	●	COLOR SELECTION CHART	●	ELECTRICAL GEAR
	WEEP VENT		THERMAL INSULATION TYPE AS SCHEDULED		SAMPLES FOR VERIFICATION	●	PRODUCT DATA AND CUT SHEETS
●	THIN BRICK		PRODUCT DATA/ CUT SHEETS TO INCLUDE ALL REQUIRED ACCESSORIES	●	WINDOWS	●	ELECTRICAL SYSTEMS
●	PRODUCT DATA		FIBERGLASS		FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION (EXTERIOR APPLICATION)	●	PRODUCT DATA AND CUT SHEETS
●	SAMPLES (WHEN DEVIATING FROM SPECIFIED OR WHEN UNSPECIFIED)		MINERAL WOOL		APPROVED FOR USE OUTSIDE HVHZ		
●	THIN BRICK ACCESSORIES		CELLULOSE		APPROVED FOR USE IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)		
	THIN SET MORTAR		POLYURETHANE FOAM (XPS)		PRODUCT DATA / CUT SHEETS		
	MORTAR COLOR CHART (IF NOT SPECIFIED)		POLYSTYRENE (EPS)		SHOP DRAWINGS WITH PROJECT SPECIFIC DETAILS		
	WEEP SCREED		SPRAY POLYURETHANE FOAM		COLOR SELECTION CHART		
	MANUFACTURED STONE	●	COMPOSITE WALL PANEL SYSTEM / SIDING		SAMPLES FOR VERIFICATION (IF NOT AS SPECIFIED)		
	PRODUCT DATA	●	FLORIDA PRODUCT APPROVAL / MIAMI-DADE NOA DOCUMENTATION				
	SAMPLES (WHEN DEVIATING FROM SPECIFIED OR WHEN UNSPECIFIED)		APPROVED FOR USE OUTSIDE HVHZ				
	CULTURED STONE ACCESSORIES		APPROVED FOR IN HVHZ (BROWARD AND MIAMI-DADE COUNTY)				
	CAST-FIT WATERTABLE / SILL	●	PRODUCT DATA / CUT SHEET WITH ALL REQUIRED ACCESSORIES				
		●	NICHIHA				
			HARDIE SIDING				
			ACM				
		●	SHOP DRAWINGS WITH PROJECT SPECIFIC DETAILS				
		●	COLOR SELECTION CHART				
			SAMPLES FOR VERIFICATION (IF NOT AS SPECIFIED)				
			SAMPLE WARRANTY				

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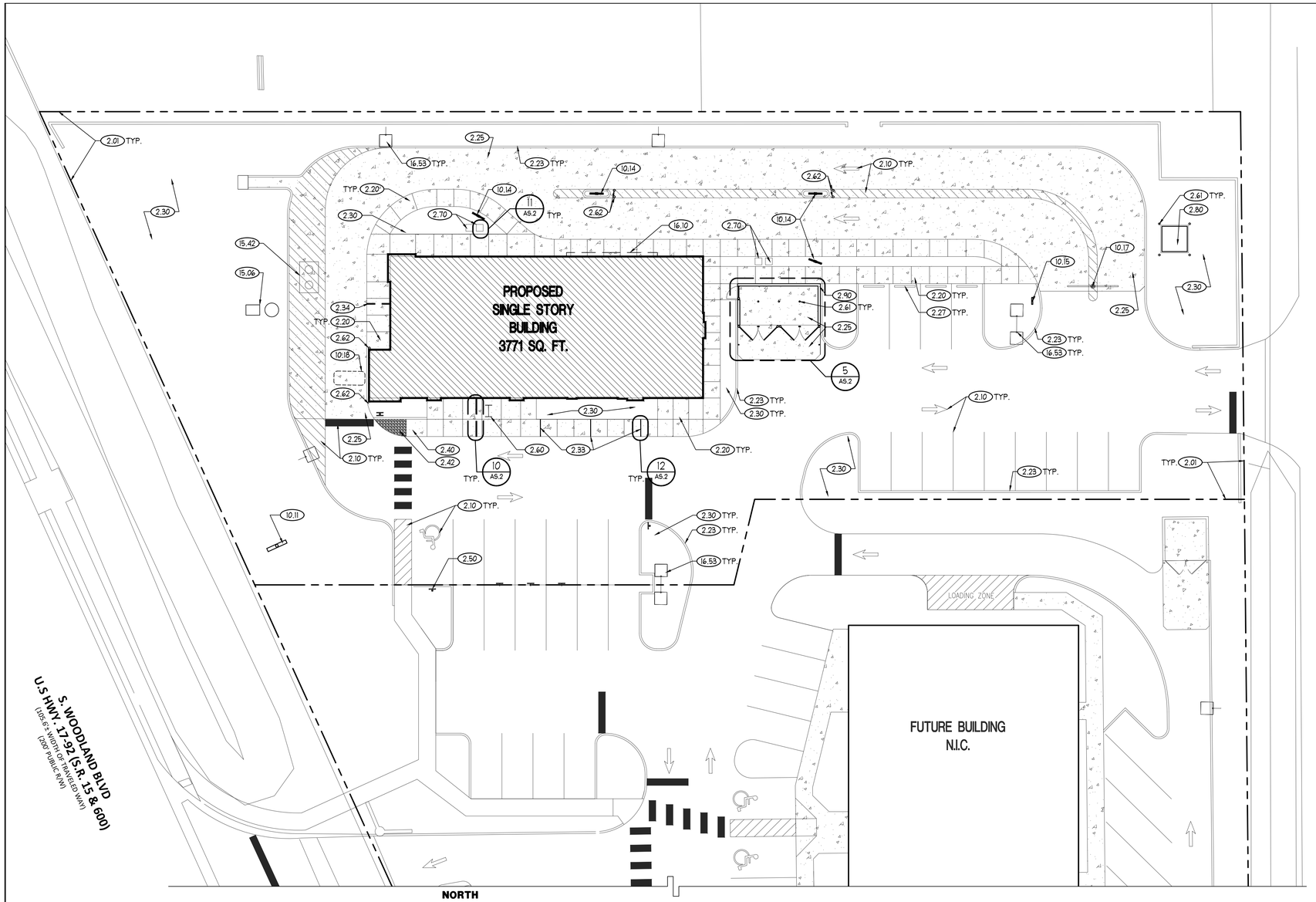
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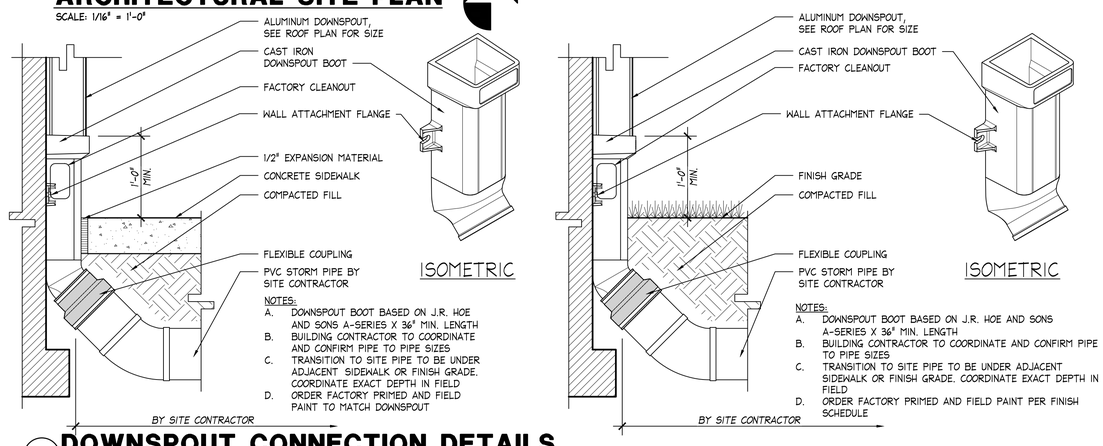
REQUIRED SUBMITTALS

A0.5



ARCHITECTURAL SITE PLAN

SCALE: 1/16" = 1'-0"



1 DOWNSPOUT CONNECTION DETAILS

SCALE: 1 1/2" = 1'-0"

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 DUTCH BROS DRIVE-THRU EQUIPMENT AND MISCELLANEOUS SITE ITEMS INCLUDING, BUT NOT LIMITED TO, DIRECTIONAL SIGNAGE, MENU-BOARDS, 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 DUTCH BROS' INTERIOR FINISH-OUT PLANS. THOSE DOCUMENTS SHALL GOVERN WHEN DETERMINING PRECISE LOCATIONS FOR 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 DUTCH BROS' CONSTRUCTION DOCUMENTS. IN ADDITION, THE 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

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

REQUIREMENTS FOR EXTERIOR CONCRETE:
DRIVE-THRU LANE AND DUMPSTER ENCLOSURE PAD:
SHALL BE MINIMUM 6" THICK, 3,000 PSI POURED CONCRETE REINFORCED WITH 6" X 6", W2.8 X W2.8 WWM. 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 SIDEWALK: SHALL BE A MINIMUM OF 4" THICK, 3,000 PSI CONCRETE REINFORCED WITH 6" X 6", W1.4 X W1.4 WWM AND 1'-0" DEEP X 8" WIDE THICKENED SLAB EDGE, NATURAL GRAY COLOR. SURFACE TO RECEIVE MEDIUM BROOM FINISH. 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" MAXIMUM

REFER TO SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS FOR EXTERIOR WALL FINISHES

SIGN AND MISCELLANEOUS SITE COMPONENTS WORK SCOPE SUMMARY

	COMPONENT	PERMITTING	FOUNDATION AND ANCHOR BOLTS	CONDUIT WITH PULLSTRING	ELECTRIC WIRE	REMARKS
10.11	PYLON OR MONUMENT SIGN					
	FOUNDATION	SHELL GC	SHELL GC	N/A	N/A	SEE REMARK 1
	PYLON OR MONUMENT BASE	SHELL GC	N/A	SHELL GC	N/A	SEE REMARK 1
	CABINET	LANDLORD'S VENDOR	N/A	N/A	SHELL GC	SEE REMARK 1
10.14	MENU BOARD	TENANT'S VENDOR	SHELL GC	SHELL GC	TENANT	SEE REMARK 2
10.15	ILLUMINATED DIRECTIONAL SIGN	TENANT'S VENDOR	SHELL GC	SHELL GC	TENANT	SEE REMARK 2
10.17	HEIGHT RESTRICTION BAR	TENANT'S VENDOR	SHELL GC	SHELL GC	TENANT	SEE REMARK 2
10.18	TRAFFIC DETECTOR LOOP	SHELL GC	N/A	SHELL GC	TENANT	SEE REMARK 3

REMARKS:

1. PRIOR TO CONSTRUCTION OF THE SIGN FOUNDATION OR BASE, THE SHELL GENERAL CONTRACTOR SHALL OBTAIN ENGINEERED PLANS FROM THE SIGN VENDOR
2. PRIOR TO FOUNDATION INSTALLATION, THE SHELL GENERAL CONTRACTOR SHALL OBTAIN A CURRENT SET OF TENANT PLANS SHOWING THE PRECISE LOCATION OF SITE COMPONENTS AND COMPLETE FOUNDATION DETAILS INCLUDING ANCHOR BOLT REQUIREMENTS
3. DETECTOR LOOP TO BE SUPPLIED BY TENANT, INSTALLED BY SHELL GENERAL CONTRACTOR

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

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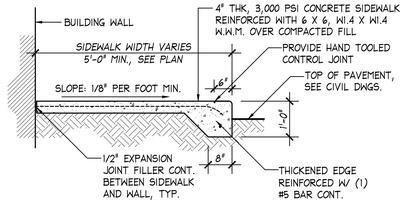
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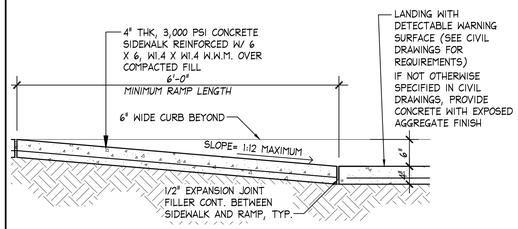
ARCHITECTURAL SITE PLAN AND DETAILS

AS.1

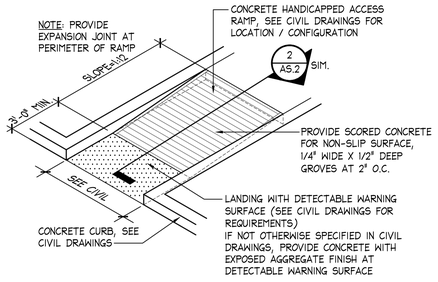
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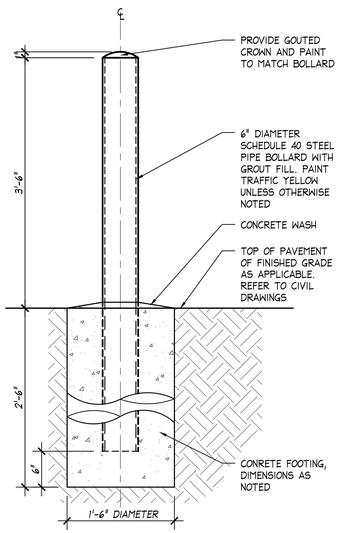
1 CONCRETE SIDEWALK SECTION
SCALE: 1/2" = 1'-0"



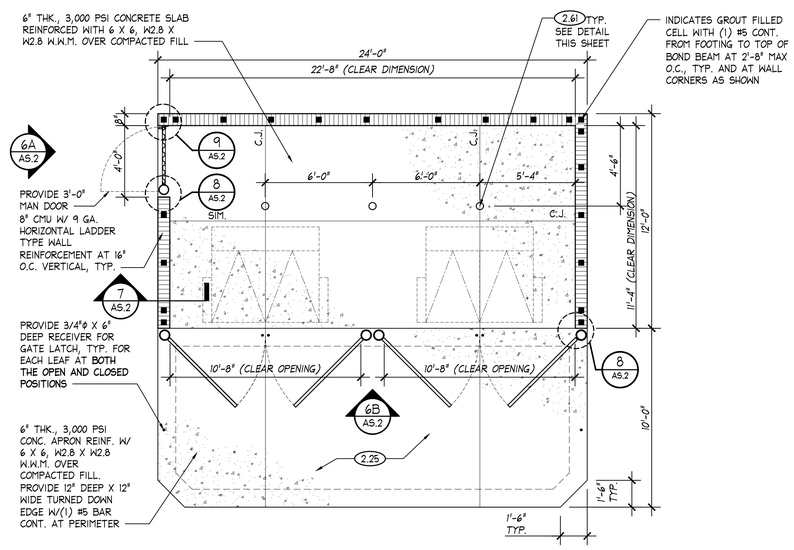
2 HANDICAP RAMP SECTION
SCALE: 3/4" = 1'-0"



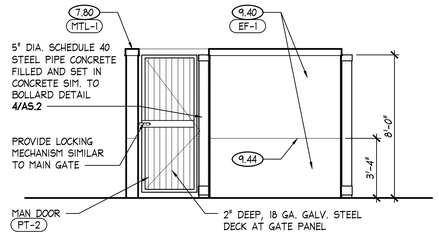
3 HANDICAP RAMP SECTION
NOT TO SCALE



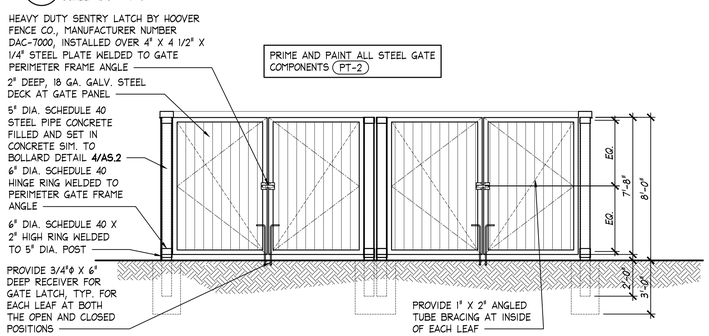
4 BOLLARD DETAIL
SCALE: 1" = 1'-0"



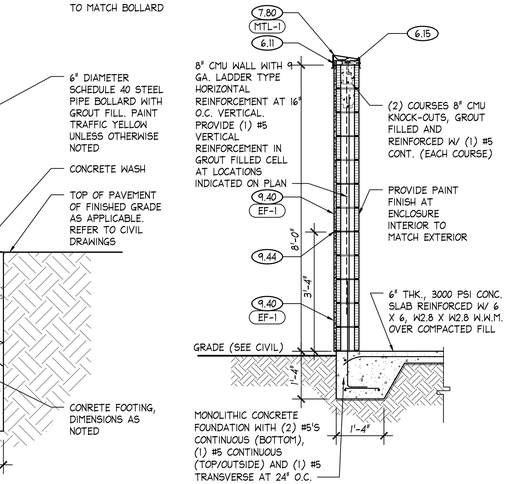
5 DUMPSTER ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"



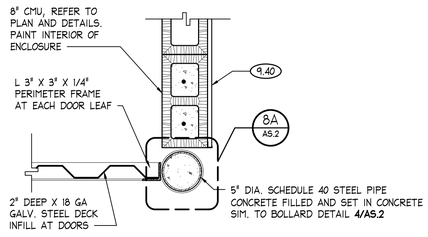
6A DUMPSTER ENCLOSURE ELEVATION
SCALE: 1/4" = 1'-0"



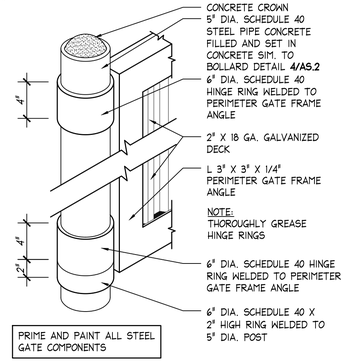
6B DUMPSTER ENCLOSURE ELEVATION
SCALE: 1/4" = 1'-0"



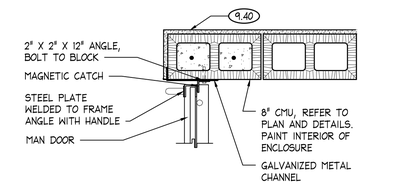
7 WALL SECTION
SCALE: 1/2" = 1'-0"



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



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



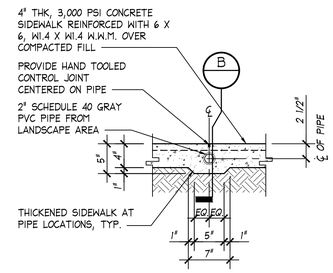
9 DOOR LATCH DETAIL
SCALE: 1" = 1'-0"

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

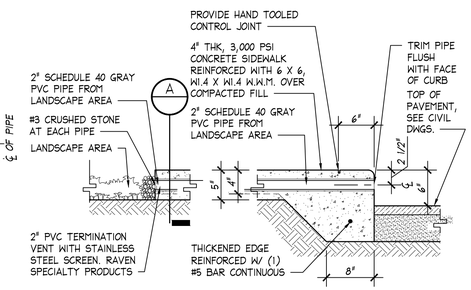
REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DRAWINGS FOR ALL REQUIREMENTS OUTSIDE BUILDING LINE

REFER TO SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS FOR EXTERIOR WALL FINISHES

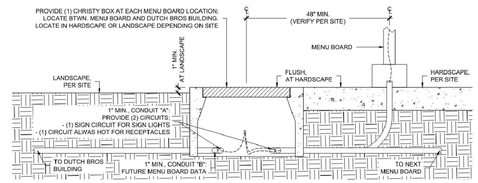


SECTION "A"

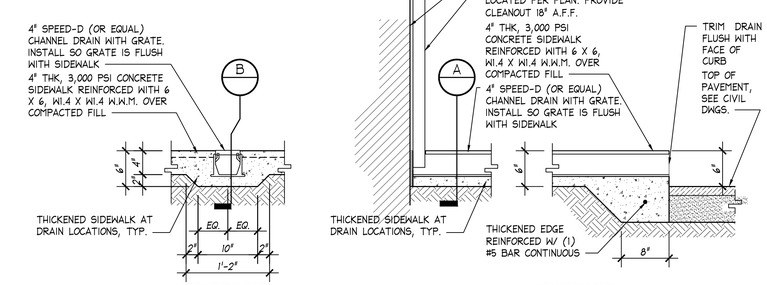


SECTION "B"

12 SIDEWALK DRAIN DETAILS
SCALE: 1" = 1'-0"



11 CHRISTY BOX DETAIL
SCALE: 1/2" = 1'-0"



SECTION "A"

SECTION "B"

10 TRENCH DRAIN DETAILS
SCALE: 1" = 1'-0"

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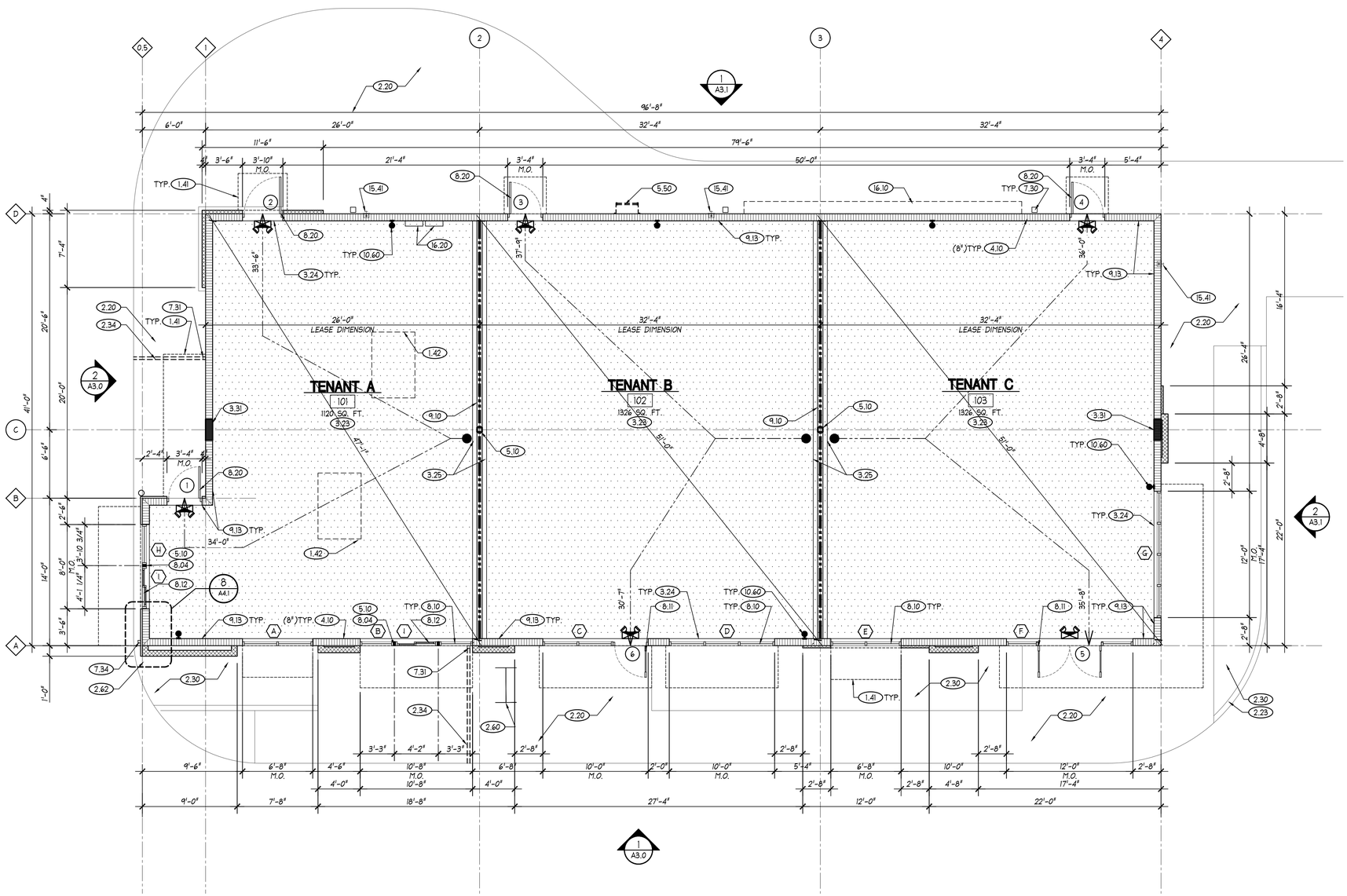
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MULTITENANT RETAIL AT DELAND
2235 S. WOODLAND BLVD
DELAND, FL

04.08.2026
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comm. no.
ARCHITECTURAL SITE DETAILS

AS.2

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FLOOR PLAN

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

NORTH

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FINISHED FACE OF GWB PARTITIONS, FACE OF CMU AND CENTERLINE OF COLUMNS UNLESS OTHERWISE INDICATED

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 ARCHITECTURAL SITE PLAN AND CIVIL DRAWINGS FOR ALL REQUIREMENTS OUTSIDE BUILDING LINE

REFER TO SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

REFER TO THE WALL LEGEND ON THIS SHEET FOR THE DESCRIPTIONS OF WALL CONSTRUCTION

REFER TO EXTERIOR ELEVATIONS FOR WALL SECTION CUT LOCATIONS

REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS FOR EXTERIOR WALL FINISHES

WALL LEGEND AND NOTES

8" CMU WALL CONSTRUCTION. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT AND FILLED CELL LOCATIONS

1-HOUR RATED DEMISING WALL. CONSTRUCT PER U.L. ASSEMBLY U-465 WITH (1) LAYER OF 5/8" FIRE RATED GWB EACH SIDE OVER 6" 20 GA. METAL STUDS AT 16" O.C. PROVIDE SOUND ATTENUATION BATT INSULATION CONTINUOUS AT CAVITY. EXTEND ALL FULL HEIGHT TO UNDERSIDE OF ROOF DECK. REFER TO U.L. ASSEMBLY DETAILS ON **SHEET A6.0**. GWB SHALL BE SPECIFIC TYPE AND MANUFACTURER LISTED IN SPECIFIED U.L. ASSEMBLY DETAIL. USE MOISTURE RESISTANT GWB AT ALL UNCONDITIONED SPACES. PROVIDE MOLD AND MILDEW PREVENTION COATING. REFER TO SPECIFICATION SECTION 09260

EXTERIOR METAL STUD WALL CONSTRUCTION. REFER TO WALL SECTIONS AND STRUCTURAL DRAWINGS FOR DESCRIPTION

5/8" TYPE 'X' GYPSUM WALLBOARD IS REQUIRED AT THE DEMISING WALL (OR AS OTHERWISE SPECIFIED IN THE UL ASSEMBLY DETAIL PROVIDED). GWB SURFACES AT THE DEMISING WALL SHALL BE TAPED, MUDDED AND SANDED (TO A LEVEL 4 FINISH) AND READY TO RECEIVE TENANT'S PAINT FINISH

LIFE SAFETY LEGEND

MOST REMOTE POINT IN SPACE
PATH OF EGRESS TRAVEL
POINT OF EGRESS
TRAVEL DISTANCE
XX'-X"

FIRE EXTINGUISHER, 5LB 2A-10B:C ON SURFACE MOUNTED WALL BRACKET

EXIT SIGN / EMERGENCY LIGHT COMBINATION FIXTURE, REFER TO ELECTRICAL DRAWINGS

(#) DOOR SYMBOL, REFER TO **SHEET A4.0** FOR DOOR AND HARDWARE SCHEDULE

F.A.C. 69A-60.0081 NOTICE

F.A.C. 69A-60.0081 NOTICE REQUIRED FOR STRUCTURES WITH LIGHT-FRAME TRUSS-TYPE CONSTRUCTION

NOTE: THIS BUILDING **DOES NOT** CONTAIN PRIMARY STRUCTURAL ELEMENTS WHICH ARE OF LIGHT-FRAME TRUSS-TYPE CONSTRUCTION

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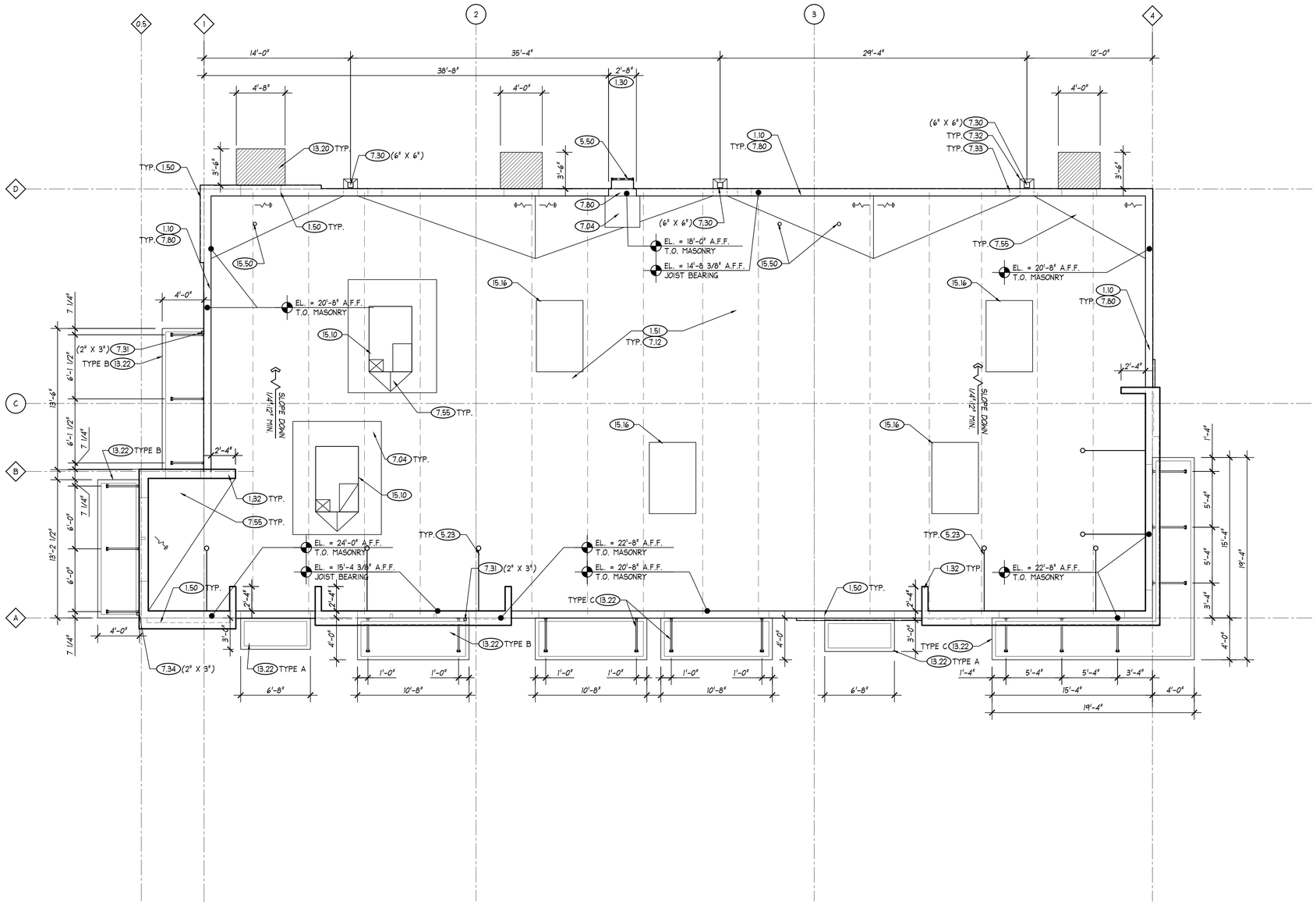
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FLOOR PLAN, NOTES AND LIFE SAFETY INFORMATION

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ROOF PLAN

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

NORTH

4/9/2026 8:17 AM

GENERAL NOTES

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

DOWNSPOUT REQUIREMENTS:

ALL DOWNSPOUTS EXTENDING TO GRADE SHALL BE CONNECTED TO THE UNDERGROUND STORM SEWER UNLESS OTHERWISE NOTED. REFER TO CIVIL DRAWINGS. A CAST ALUMINUM TRANSITION BOOT WITH CLEAN OUT SHALL BE PROVIDED FOR THIS CONNECTION. REFER TO DETAIL ON SHEET A5.2

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

REFER TO SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

REFER TO WALL SECTIONS FOR DESCRIPTION OF CANOPIES AND AWNINGS AND REFERENCES TO DETAILS

REFER WALL SECTIONS FOR REFERENCES TO PARAPET AND ROOF DETAILS. SEE STRUCTURAL DRAWINGS FOR JOIST REQUIREMENTS

CRITICAL NOTES

WALL FINISHES AT PARAPET RETURNS:
THE DESIGN INTENT FOR PARAPET WALLS THAT RETURN ONTO THE ROOF SURFACE IS THAT THEY, WHERE EXPOSED TO VIEW, ARE TO BE PROVIDED WITH WALL FINISHES THAT ARE CONSISTENT WITH THE ADJACENT BUILDING ELEVATIONS. FOR EXAMPLE, IF CEMENT PLASTER IS PROVIDED ALONG THE MAIN BUILDING ELEVATION, THE PARAPET RETURNS ARE TO BE PROVIDED WITH EQUAL FINISHES

THE SHELL GENERAL CONTRACTOR SHALL FULLY REVIEW AND COORDINATE WALL FINISHES WITH APPLICABLE TRADES PRIOR TO INSTALLATION. UNDER NO CIRCUMSTANCES WILL EXPOSED ROOF MEMBRANE BE ACCEPTED AS A WALL FINISH AT THE PARAPET RETURN CONDITIONS NOTED

WALL COUNTERFLASHING DETAILS:
REFER TO WALL SECTIONS AND ENLARGED DETAILS FOR THE SPECIFIED COUNTERFLASHING REQUIRED ABOVE CANOPIES, AWNINGS, PILASTER CAPS AND, WHERE APPLICABLE, TRIM MOULDING. IN SUCH CASES, THE DESIGN INTENT IS TO LIMIT THE VISIBILITY OF COUNTERFLASHINGS BY INCORPORATING LOW PROFILE OR CONCEALED FLASHINGS

THE SHELL GENERAL CONTRACTOR SHALL FULLY REVIEW AND COORDINATE ALL WALL COUNTERFLASHING REQUIREMENTS WITH THE ROOFER AND APPLICABLE TRADES PRIOR TO INSTALLATION. SHOULD CLARIFICATION OF ANY DETAIL BE NEEDED, THE SHELL GENERAL CONTRACTOR SHALL SUBMIT AN RFI TO THE ARCHITECT PRIOR TO INSTALLATION

UNDER NO CIRCUMSTANCES WILL EXPOSED SINGLE-PLY MEMBRANE BE AN ACCEPTABLE MEANS OF FLASHING AT THE CONDITIONS NOTED

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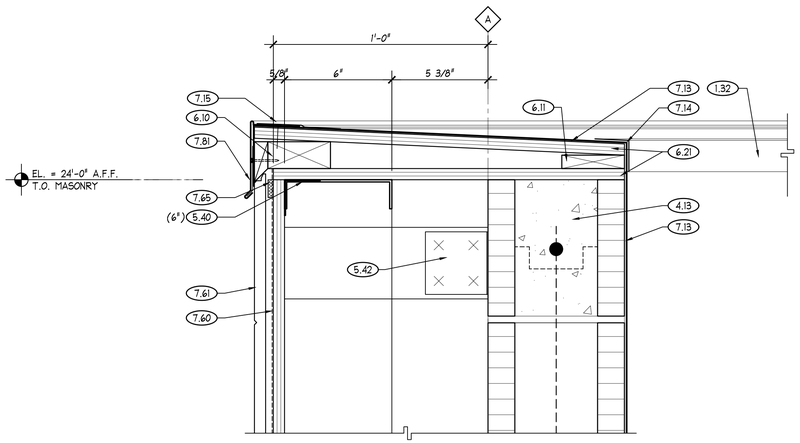
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ROOF PLAN

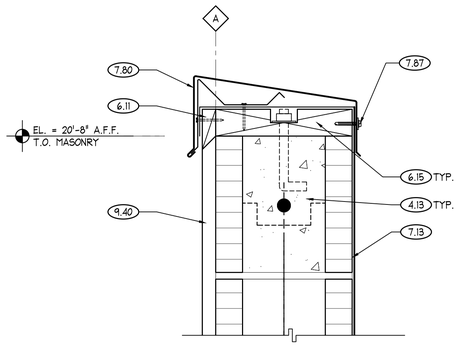
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TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION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

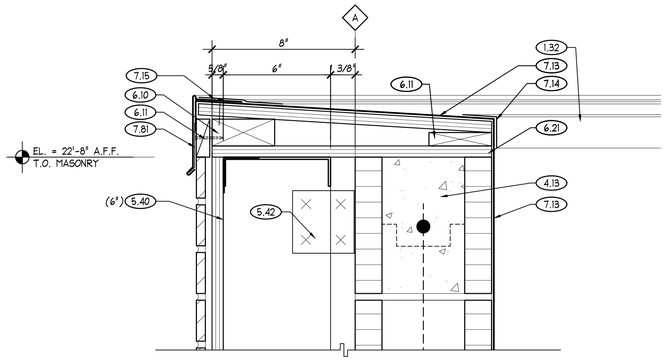
REFER TO SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS



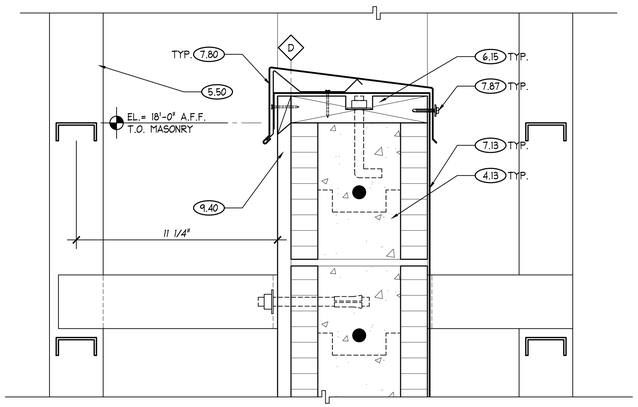
1 PARAPET DETAIL
SCALE: 3" = 1'-0"



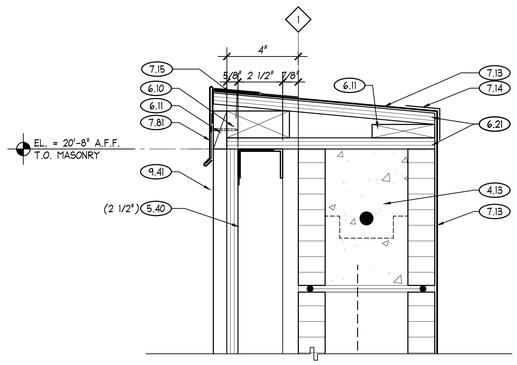
2 PARAPET DETAIL
SCALE: 3" = 1'-0"



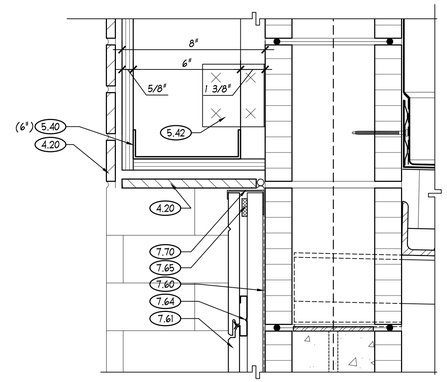
3 PARAPET DETAIL
SCALE: 3" = 1'-0"



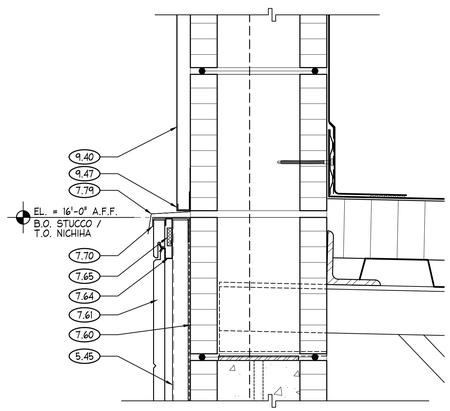
4 PARAPET DETAIL
SCALE: 3" = 1'-0"



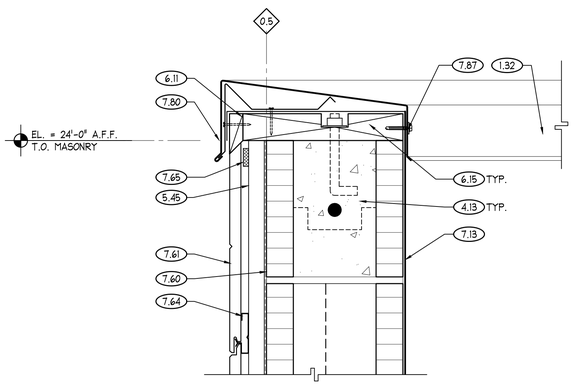
5 PARAPET DETAIL
SCALE: 3" = 1'-0"



6 SOFFIT DETAIL
SCALE: 3" = 1'-0"



7 WALL DETAIL
SCALE: 3" = 1'-0"



8 PARAPET DETAIL
SCALE: 3" = 1'-0"

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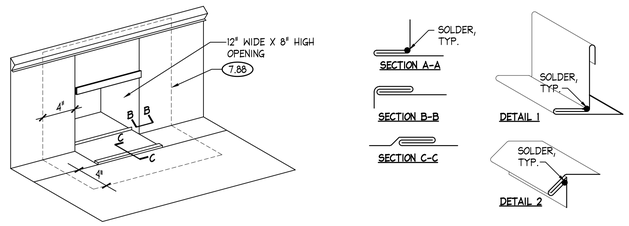
ROOF DETAILS

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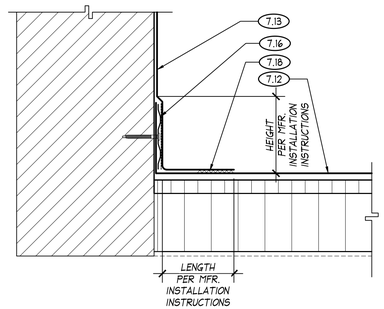
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REFER TO SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

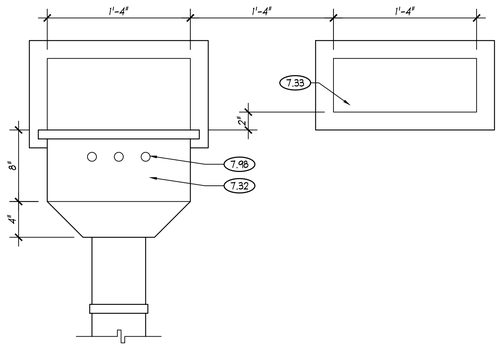


FLASHING DETAIL
NOT TO SCALE

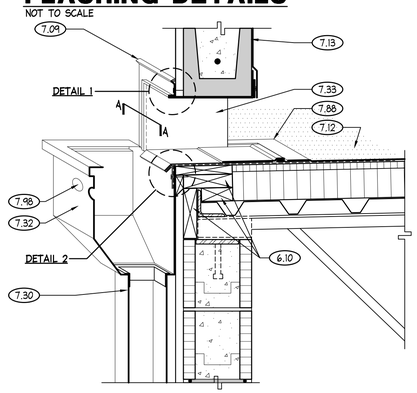
FLASHING DETAILS
NOT TO SCALE



3 TYPICAL PARAPET FLASHING DETAIL
SCALE: 3" = 1'-0"



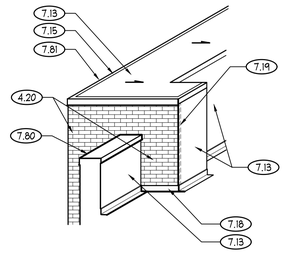
ELEVATION



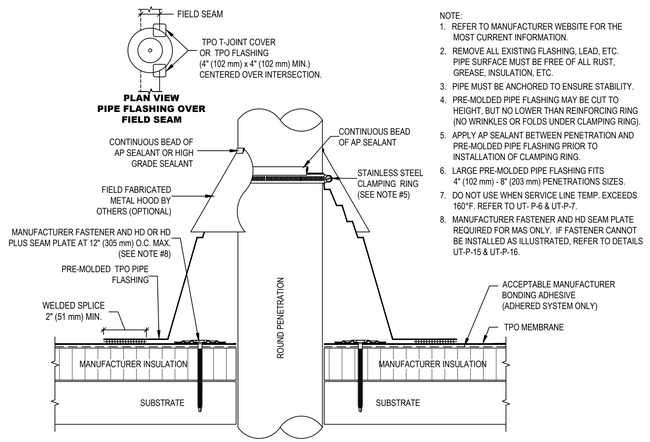
SECTION

1 TYPICAL SCUPPER DETAILS
SCALE: 1-1/2" = 1'-0"

REFER TO STRUCTURAL DRAWINGS FOR FRAMING OF PARAPET RETURN ON ROOF

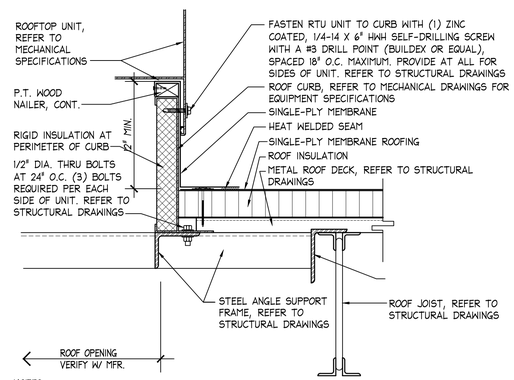


4 PARAPET RETURN DETAIL
SCALE: 1/4" = 1'-0"



NOTE:
1. REFER TO MANUFACTURER WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
5. APPLY AP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
6. LARGE PRE-MOLDED PIPE FLASHING FITS 4" (102 mm) - 8" (203 mm) PENETRATIONS SIZES.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160°F. REFER TO UT- P-6 & UT-P-7.
8. MANUFACTURER FASTENER AND HD SEAM PLATE REQUIRED FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16.

2 PLUMBING VENT DETAIL
SCALE: 6" = 1'-0"



NOTES:
AT LEAST ONE SIDE OF THE ROOF OPENING SHALL BE SUPPORTED BY A ROOF FRAMING MEMBER

THE ROOF CURBS MAY BE WITHOUT INSULATION. TOP OF ROOF CURB SHALL BE INSTALLED LEVEL, SHIMMED FROM BENEATH SO TOP OF CURB HEIGHT WILL BE AS STATED IN FBC-BUILDING TABLE 1522.3 ABOVE ROOF SURFACE.

NOTE:
REFER TO STRUCTURAL ROOF FRAMING PLAN FOR ASSOCIATED STRUCTURAL DETAILS

NOTE:
REFER TO STRUCTURAL DRAWINGS FOR FASTENING METHODS AND SPECIFICATIONS

5 TYPICAL ROOFTOP UNIT CURB DETAIL
SCALE: 1-1/2" = 1'-0"

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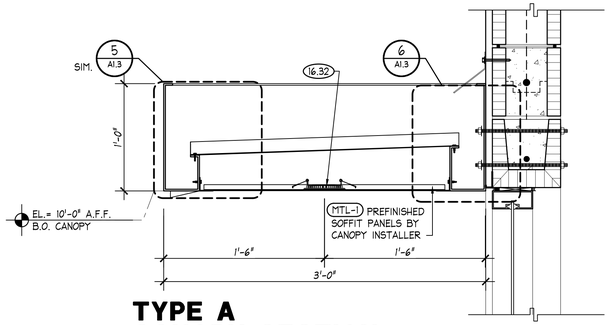
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ROOF DETAILS

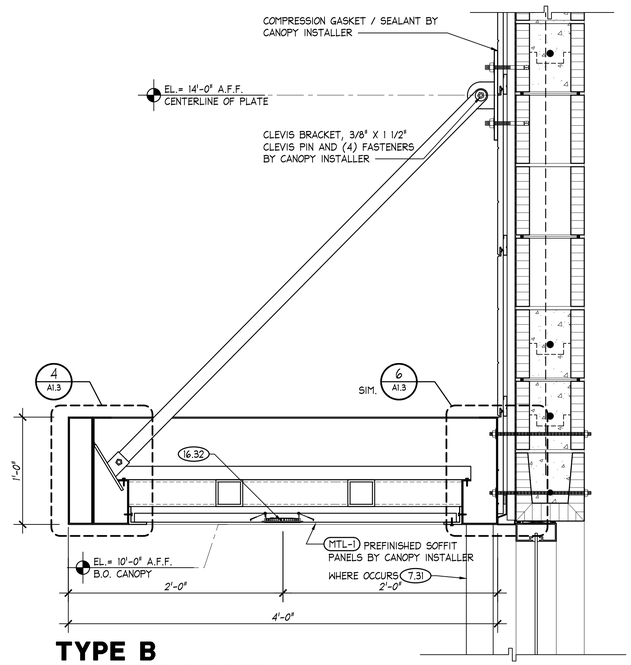
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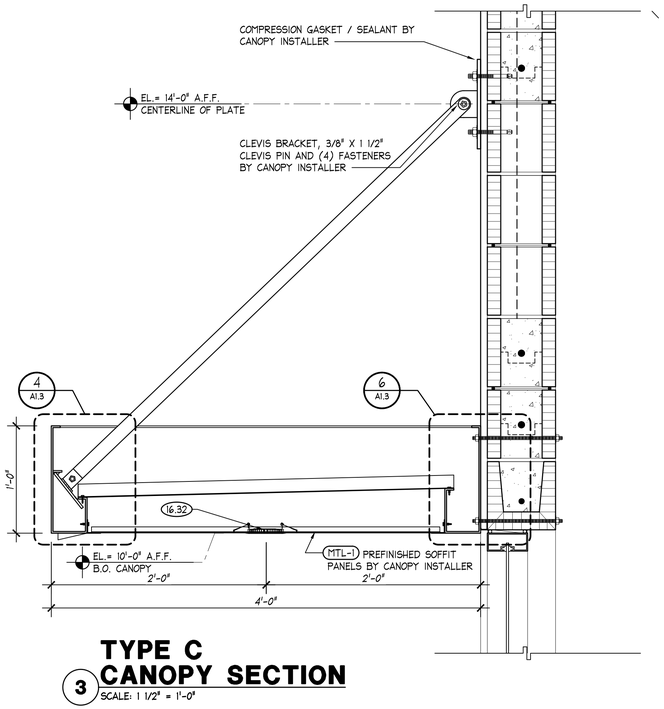
1 TYPE A CANOPY SECTION

SCALE: 1 1/2" = 1'-0"



2 TYPE B CANOPY SECTION

SCALE: 1 1/2" = 1'-0"



3 TYPE C CANOPY SECTION

SCALE: 1 1/2" = 1'-0"

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 SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

ALUMINUM AWNING NOTES:

AWNING DETAILS PROVIDED SHOW DESIGN INTENT INCLUDING DIMENSIONS, COMPONENTS AND MOUNTING HEIGHTS. THE AWNING FABRICATOR SHALL PROVIDE SEPARATE SHOP DRAWINGS SHOWING ALL COMPONENTS AND METHOD OF ATTACHMENT. SAID DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. THE AWNING FABRICATOR SHALL SUBMIT DRAWINGS TO THE BUILDING DEPARTMENT FOR REVIEW, APPROVAL AND PERMIT.

PROVIDE WELDED PLATE CAPS AT ALL EXPOSED TUBE TERMINATIONS. ALL WELDED CONNECTIONS SHALL BE GROUND SMOOTH PRIOR TO FINISH APPLICATION

ALUMINUM COMPONENTS TO BE FINISHED WITH STANDARD, OVEN CURED POWDER COAT AND SHALL MEET AAMA 2604 REQUIREMENTS

ALL DIMENSIONS TO BE FIELD VERIFIED

STEEL AND ALUMINUM COMPONENTS AND CLADDING SHALL BE PROPERLY ISOLATED TO PREVENT GALVANIC ACTION. PROVIDE BITUMINOUS COATING OR ARCHITECT APPROVED METHOD

PRE-ENGINEERED CANOPY NOTES

THE GENERAL CONTRACTOR SHALL ENGAGE A CANOPY MANUFACTURER TO PROVIDE FULLY ENGINEERED CANOPIES IN COMPLIANCE WITH THE DESIGN INTENT PROVIDED IN THE CONSTRUCTION DOCUMENTS

THE CANOPY MANUFACTURER SHALL PROVIDE A CANOPY ASSEMBLY THAT IS DESIGNED TO MEET THE WIND LOADS AT THE SUBJECT PROPERTY AND, ADDITIONALLY, THAT IS TESTED AND APPROVED BY MIAMI-DADE NOA OR FLORIDA PRODUCT APPROVAL

THE CANOPY MANUFACTURER SHALL PROVIDE FULLY ENGINEERED SHOP DRAWINGS WHICH SPECIFY ALL CANOPY COMPONENTS INCLUDING CONNECTIONS TO PRIMARY STRUCTURE. THE CONNECTION TO PRIMARY STRUCTURE INCLUDES ANY AND ALL NECESSARY SUPPORT BLOCKING REQUIREMENTS AND METHOD OF ATTACHMENT TO PRIMARY STRUCTURE. SHOP DRAWINGS SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW AND APPROVAL

UPON RECEIPT OF SHOP DRAWING APPROVAL, THE CANOPY MANUFACTURER SHALL BE RESPONSIBLE FOR SUBMISSION OF SIGNED AND SEALED PLANS FOR PERMIT TO THE AUTHORITY HAVING JURISDICTION

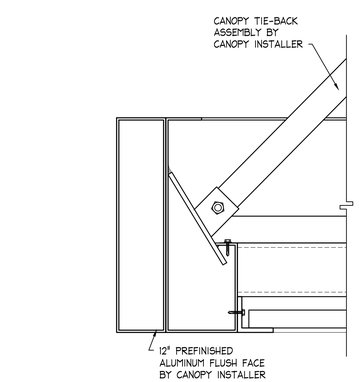
UPON APPROVAL BY THE JURISDICTION, THE CANOPY MANUFACTURER SHALL BE RESPONSIBLE FOR THE FABRICATION AND COMPLETE INSTALLATION OF THE CANOPIES.

ALL SUPPORT BLOCKING AND ATTACHMENT TO THE BUILDING SHALL BE FULLY COORDINATED WITH THE GENERAL CONTRACTOR.

REFER TO ENLARGED DETAILS ON THIS SHEET FOR DESIGN INTENT AND PHYSICAL CANOPY PARAMETERS. A WRITTEN DESCRIPTION IS AS FOLLOWS:

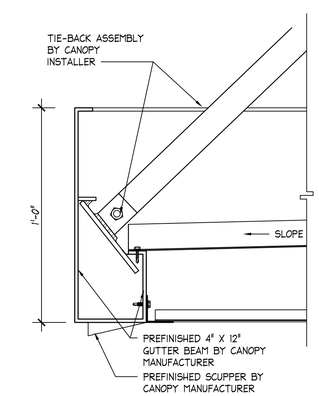
1) THE CANOPIES SHALL BE PRE-ENGINEERED, PRE-FINISHED ALUMINUM
2) CANOPIES SHALL HAVE INTEGRAL GUTTERS ON ALL FOUR SIDES. TYPES A AND C WILL HAVE SCUPPERS THAT SPILL OUTWARD, AWAY FROM THE BUILDING AND ENTRANCES. TYPE B WILL HAVE INTEGRAL GUTTERS WITH OUTLETS PROVIDED BY THE CANOPY INSTALLER (THE DOWNSPOUTS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
3) THE CANOPY SOFFIT MATERIAL SHALL BE PRE-FINISHED ALUMINUM ONLY, COLOR AS INDICATED ON THIS SHEET
4) CANOPIES SHALL INCLUDE RECESSED DOWN LIGHTING AS INDICATED ON THE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS
5) WIRING FOR RECESS MOUNTED LIGHTING, EMERGENCY LIGHTING, ETC. AT THE UNDERSIDE OF CANOPIES SHALL BE FULLY CONCEALED WITHIN SOFFIT. THE ELECTRICIAN SHALL PROVIDE DETAILS SHOWING ROUTING OF WIRING FOR APPROVAL PRIOR TO INSTALLATION
6) ALUMINUM COMPONENTS TO BE FINISHED WITH STANDARD, OVEN CURED POWDER COAT AND SHALL MEET AAMA 2604 REQUIREMENTS
7) ANY GALVANIZED STEEL COMPONENTS SHALL BE PRIMED AND PAINTED
8) ALUMINUM AND GALVANIZED STEEL COMPONENTS SHALL BE ISOLATED FROM ONE ANOTHER TO PREVENT GALVANIC ACTION

REFER TO THE FINISH SCHEDULE ON SHEET A3.0 FOR CANOPY FINISH COLOR



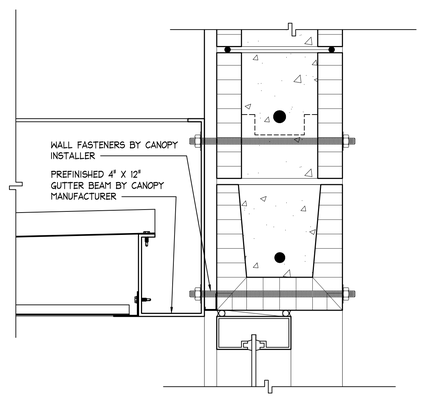
4 CANOPY DETAIL

SCALE: 3" = 1'-0"



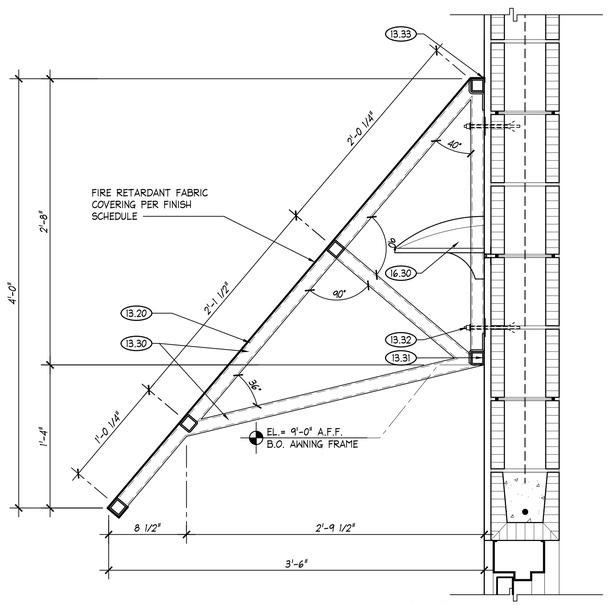
5 CANOPY DETAIL

SCALE: 3" = 1'-0"



6 CANOPY DETAIL

SCALE: 2 49/64" = 1'-0"



7 ALUMINUM AWNING SECTION

SCALE: 1 1/2" = 1'-0"

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

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

GUY F. FABER
FL License No. AR0015323
seal

no.	date	revision descriptions

MULTITENANT RETAIL AT DELAND
2235 S. WOODLAND BLVD
DELAND, FL

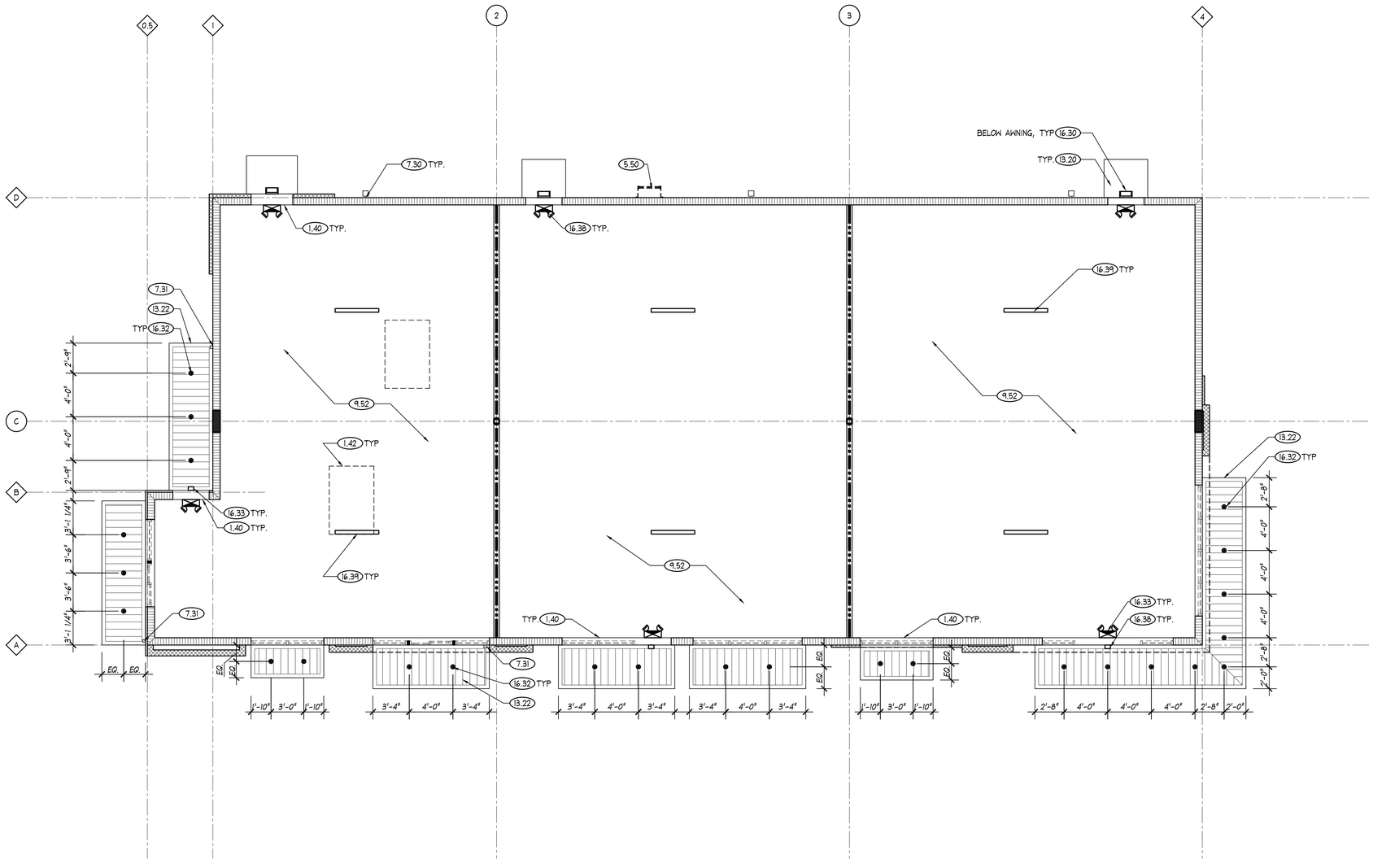
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CANOPY AND AWNING DETAILS

A1.3

4/9/2026 8:22 AM



NORTH

REFLECTED CEILING PLAN

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

GENERAL NOTES

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

1. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING SPECIFICATIONS AND LOCATIONS OF EMERGENCY LIGHTING
2. REFER TO MECHANICAL PLANS FOR ROOFTOP EQUIPMENT AND DROPS
3. 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
4. REFER TO **SHEET A4.1** FOR HEAD, JAMB AND SILL DETAILS

REFLECTED CEILING LEGEND

SYMBOL	DESCRIPTION	REMARKS
◉	RECESSED DOWN LIGHT FIXTURE	REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS
	EMERGENCY/EXIT LIGHT COMBINATION FIXTURE	REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS AND LOCATIONS
▭	EXTERIOR EMERGENCY LIGHT FIXTURE, WALL OR CEILING MOUNTED	REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS. SEE ALSO EXTERIOR ELEVATIONS
	TEMPORARY LIGHTING FIXTURE	REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS
▭	WALL PACK	REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS. SEE ALSO EXTERIOR ELEVATIONS

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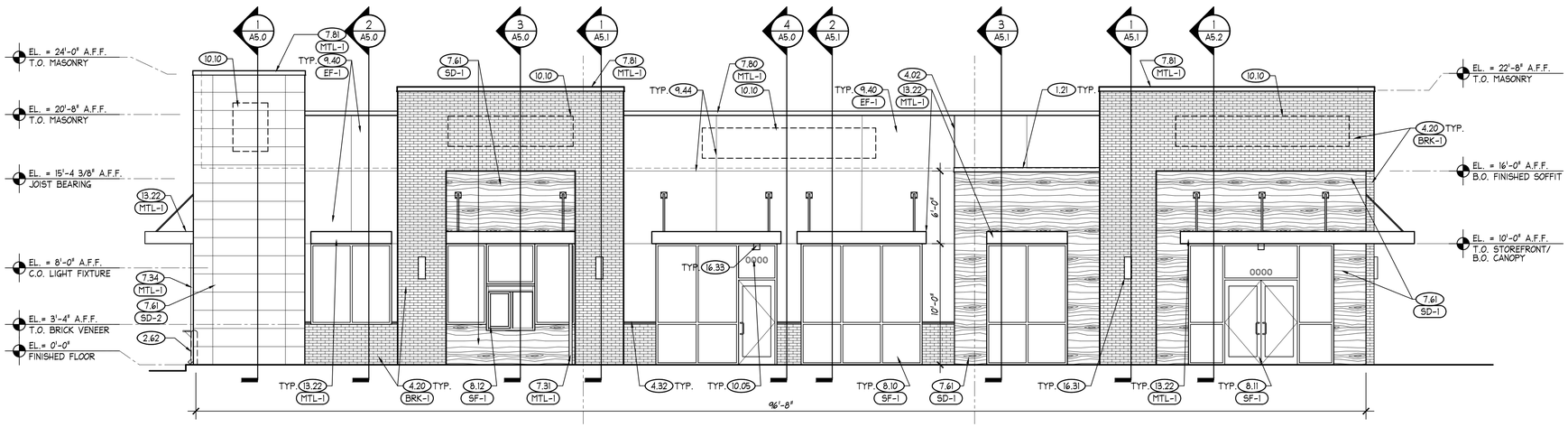
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REFLECTED CEILING PLAN

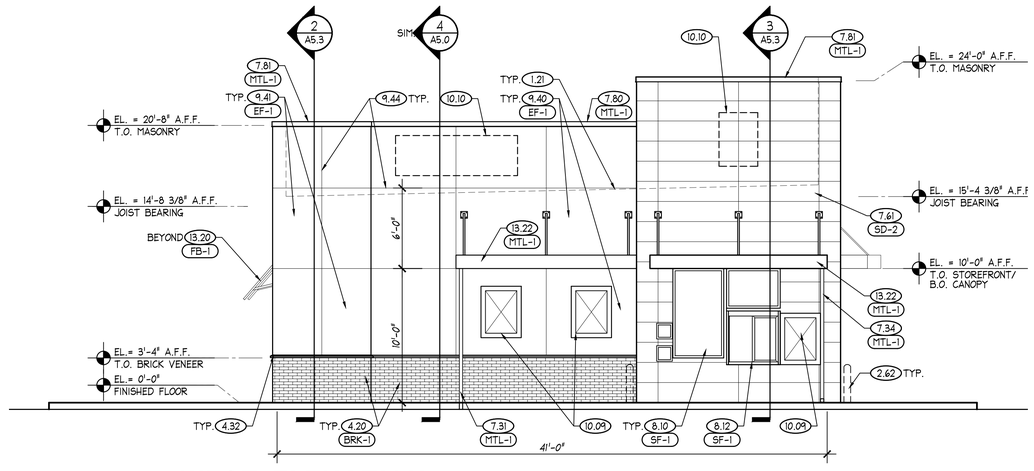
A2.0

4/9/2026 8:18 AM



1 SOUTH ELEVATION

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



2 WEST ELEVATION

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

GENERAL NOTES

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 SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS

SIGNAGE NOTES:

ANY BUILDING MOUNTED SIGNAGE DEPICTED IN THESE DOCUMENTS IS FOR COORDINATION PURPOSES ONLY AND IS NOT INTENDED FOR FABRICATION OR INSTALLATION BY THE GENERAL CONTRACTOR. IT SHALL BE UNDERSTOOD THAT ALL EXTERIOR BUILDING MOUNTED AND SITE SIGNAGE WILL BE PERMITTED SEPARATELY BY THE OWNER'S SIGN VENDOR. AT THAT TIME, COMPLETE DETAILS INCLUDING, BUT NOT LIMITED TO, SIGN FABRICATION, SIGN INSTALLATION, SIGN AREA AND QUANTITIES, ETC. SHALL BE SUBMITTED (BY THE SIGN VENDOR) FOR PERMIT AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS

FACILITY ADDRESS REQUIREMENTS:
NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS PLACED IN A POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY

ADDRESS NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. NUMERALS SHALL BE AT LEAST 6 INCHES IN HEIGHT

WHERE ADDRESS IDENTIFICATION IS REQUIRED BY THE FIRE OFFICIAL ON OTHER ELEVATIONS OF BUILDINGS, SUCH NUMERALS SHALL NOT BE LESS THAN SIX INCHES IN HEIGHT

ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS

CRITICAL NOTES

WALL FINISHES AT PARAPET RETURNS:
THE DESIGN INTENT FOR PARAPET WALLS THAT RETURN ONTO THE ROOF SURFACE IS THAT THEY, WHERE EXPOSED TO VIEW, ARE TO BE PROVIDED WITH WALL FINISHES THAT ARE CONSISTENT WITH THE ADJACENT BUILDING ELEVATIONS. FOR EXAMPLE, IF CEMENT PLASTER IS PROVIDED ALONG THE MAIN BUILDING ELEVATION, THE PARAPET RETURNS ARE TO BE PROVIDED WITH EQUAL FINISHES

THE SHELL GENERAL CONTRACTOR SHALL FULLY REVIEW AND COORDINATE WALL FINISHES WITH APPLICABLE TRADES PRIOR TO INSTALLATION. UNDER NO CIRCUMSTANCES WILL EXPOSED ROOF MEMBRANE BE ACCEPTED AS A WALL FINISH AT THE PARAPET RETURN CONDITIONS NOTED

WALL COUNTERFLASHING DETAILS:
REFER TO WALL SECTIONS AND ENLARGED DETAILS FOR THE SPECIFIED COUNTERFLASHING REQUIRED ABOVE CANOPIES, AWNINGS, PILASTER CAPS AND, WHERE APPLICABLE, TRIM MOULDING. IN SUCH CASES, THE DESIGN INTENT IS TO LIMIT THE VISIBILITY OF COUNTERFLASHINGS BY INCORPORATING LOW PROFILE OR CONCEALED FLASHINGS

THE SHELL GENERAL CONTRACTOR SHALL FULLY REVIEW AND COORDINATE ALL WALL COUNTERFLASHING REQUIREMENTS WITH THE ROOFER AND APPLICABLE TRADES PRIOR TO INSTALLATION. SHOULD CLARIFICATION OF ANY DETAIL BE NEEDED, THE SHELL GENERAL CONTRACTOR SHALL SUBMIT AN RFI TO THE ARCHITECT PRIOR TO INSTALLATION

UNDER NO CIRCUMSTANCES WILL EXPOSED SINGLE-PLY MEMBRANE BE AN ACCEPTABLE MEANS OF FLASHING AT THE CONDITIONS NOTED

EXTERIOR FINISH NOTES

EXTERIOR INSULATION FINISH SYSTEM (EIFS) REQUIREMENTS:

1. 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

2. 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

3. ALL FINISH COAT TEXTURES SHALL BE "SANDPEBBLE" UNLESS OTHERWISE NOTED

4. 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:

1. 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:

1. WHERE PLASTER REVEALS ARE NOT PREFINISHED, REVEALS SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR UNLESS OTHERWISE NOTED

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EXTERIOR FINISH SCHEDULE

CEMENT PLASTER / EIFS FINISHES
(ACRYLIC EIFS FINISH WITH INTEGRAL COLOR AND TEXTURE)

TAG	MANUFACTURER	COLOR	DESCRIPTION
EF-1	DRYVIT	MATCH SHERWIN WILLIAMS #SW7570 "EGRET WHITE" (LRV 70)	CUSTOM DRYVIT STRATOTONE COLOR
PAINT FINISHES			
PT-1	SHERWIN WILLIAMS	SW#7570 "EGRET WHITE"	
PT-2	SHERWIN WILLIAMS	SW#7674 "PEPPERCORN"	
BRICK			
BRK-1	VEE BRICK CLASSICS	COLOR: "710 SEASHELL" MORTAR: SM330 "BURLYWOOD"	
METAL TRIM, COPING, DOWNSPOUTS AND SCUPPERS			
MTL-1	BERRIDGE	"CHARCOAL"	KYNAR 500
ALUMINUM STOREFRONT			
SF-1	YKK	"BLACK"	
SIDING			
SD-1	NICHIHA	VINTAGE WOOD "SPRUCE"	CEMENTITOUS SIDING
SD-2	NICHIHA	ILLUMINATION AWP 1818 "DB BLUE"	CEMENTITOUS SIDING
AWNING FABRIC			
FB-1	SUNBRELLA	"BLACK"	FIRE RETARDANT FIRESIST

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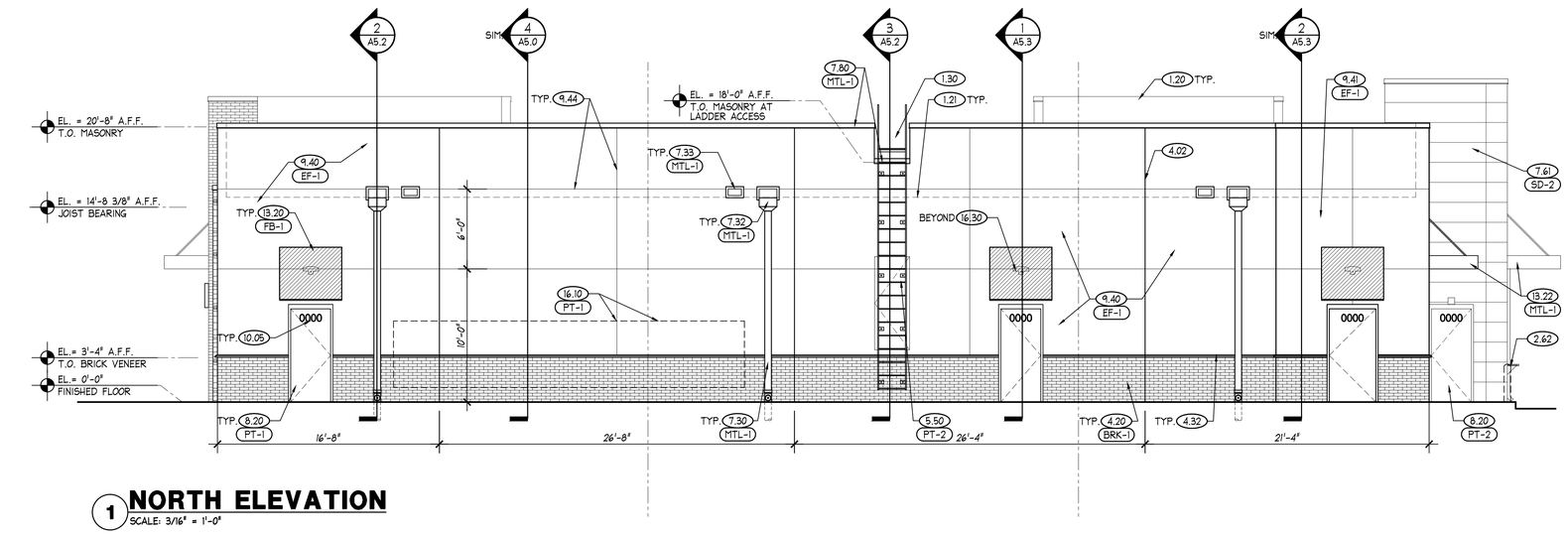
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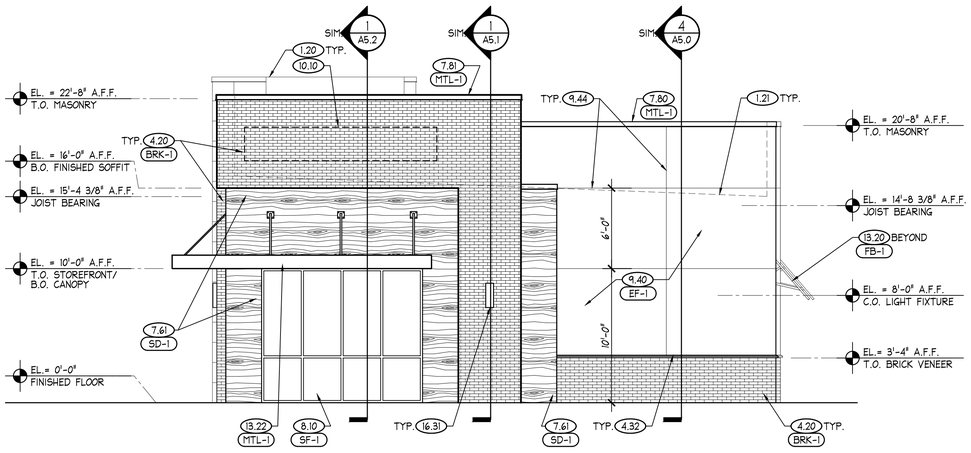
EXT. ELEVATIONS AND EXTERIOR FINISH SCHEDULE

A3.0

4/9/2026 8:20 AM



1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"



2 EAST ELEVATION
SCALE: 3/16" = 1'-0"

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EXTERIOR FINISH SCHEDULE

CEMENT PLASTER / EIFS FINISHES
(ACRYLIC EIFS FINISH WITH INTEGRAL COLOR AND TEXTURE)

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PT-1	SHERWIN WILLIAMS	SW#7570 "EGRET WHITE"	
PT-2	SHERWIN WILLIAMS	SW#7674 "PEPPERCORN"	
BRICK			
BRK-1	VEE BRICK CLASSICS	COLOR: "710 SEASHELL" MORTAR: SM330 "BURLYWOOD"	
METAL TRIM, COPING, DOWNSPOUTS AND SCUPPERS			
MTL-1	BERRIDGE	"CHARCOAL"	KYNAR 500
ALUMINUM STOREFRONT			
SF-1	YKK	"BLACK"	
SIDING			
SD-1	NICHIHA	VINTAGE WOOD "SPRUCE"	CEMENTITOUS SIDING
SD-2	NICHIHA	ILLUMINATION AWP 1818 "DB BLUE"	CEMENTITOUS SIDING
AWNING FABRIC			
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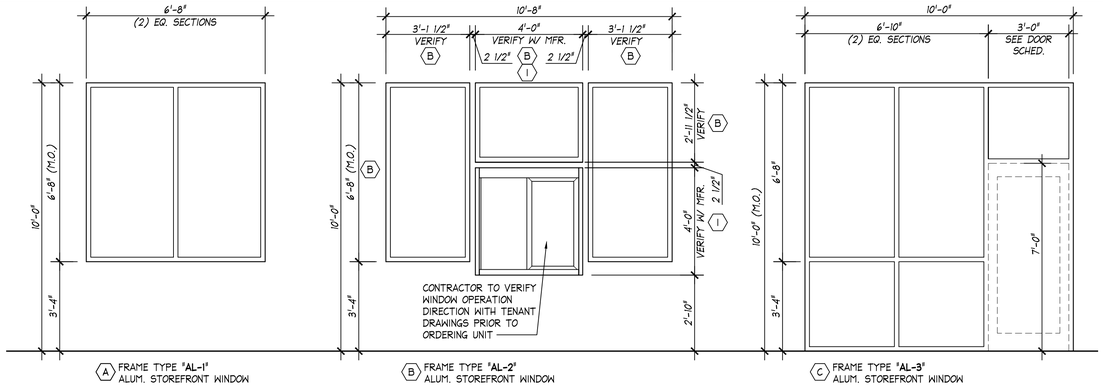
no.	date

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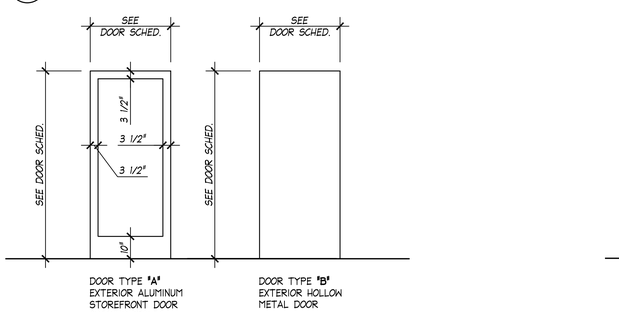
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EXTERIOR ELEVATIONS

A3.1

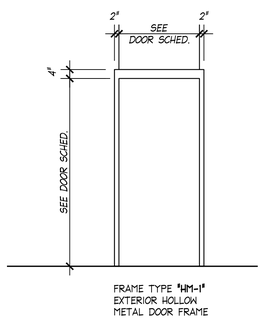
4/9/2026 8:22 AM



1 ALUMINUM STOREFRONT FRAME TYPES
SCALE: 3/8" = 1'-0"



2 DOOR TYPES
SCALE: 3/8" = 1'-0"



3 HOLLOW METAL FRAME TYPES
SCALE: 3/8" = 1'-0"

FRAME OPENING SCHEDULE

OPNG NO.	SPACE LOCATION	DOOR (AS APPLICABLE) TYPE	WIDTH	HGT.	THK.	MAT'L	HDW	FRAME TYPE	MAT'L	DETAIL REFERENCE HEAD	JAMB	THRES./ SILL	FINISH DR.	FRM.	REMARKS	NO.
1	EXIT	B	3'-0"	7'-0"	1-3/4"	HOLLOW MTL	4	HM-1	HM	5/A4.1	6/A4.1	4/A4.1	PAINT	PAINT	SEE NOTES 1, 2 & 5	1
2	EXIT	B	3'-6"	7'-0"	1-3/4"	HOLLOW MTL	4	HM-1	HM	5/A4.1	6/A4.1	4/A4.1	PAINT	PAINT	SEE NOTES 1, 2 & 5	2
3	EXIT	B	3'-0"	7'-0"	1-3/4"	HOLLOW MTL	3	HM-1	HM	5/A4.1	6/A4.1	4/A4.1	PAINT	PAINT	SEE NOTES 1, 2 & 5	3
4	EXIT	B	3'-0"	7'-0"	1-3/4"	HOLLOW MTL	3	HM-1	HM	5/A4.1	6/A4.1	4/A4.1	PAINT	PAINT	SEE NOTES 1, 2 & 5	4
5	STOREFRONT	A	PR. 3'-0"	PR. 7'-0"	BY MFR.	ALUM/ GLASS	1	AL-6	ALUM.	1/A4.1	-	1/A4.1	PREFIN	PREFIN	SEE NOTES 3, 4, 5 & 6	5
6	STOREFRONT	A	3'-0"	7'-0"	BY MFR.	ALUM/ GLASS	2	AL-3	ALUM.	1/A4.1	-	1/A4.1	PREFIN	PREFIN	SEE NOTES 3, 4, 5 & 6	6
A	SEE ELEVATION							AL-1	ALUM.	2/A4.1	-	3/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	A
B	SEE ELEVATION							AL-2	ALUM.	2/A4.1 / 7/A4.1	-	3/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	B
C	SEE ELEVATION							AL-3	ALUM.	1/A4.1 2/A4.1	-	1/A4.1 2/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	C
D	SEE ELEVATION							AL-4	ALUM.	2/A4.1	-	2/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	D
E	SEE ELEVATION							AL-5	ALUM.	2/A4.1	-	2/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	E
F	SEE ELEVATION							AL-6	ALUM.	1/A4.1 2/A4.1	-	1/A4.1 2/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	F
G	SEE ELEVATION							AL-7	ALUM.	2/A4.1	-	2/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	G
H	SEE ELEVATION							AL-8	ALUM.	2/A4.1	-	3/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	H
I	SEE ELEVATION							AL-9	ALUM.	7/A4.1	-	7/A4.1	-	PREFIN	SEE NOTES 3, 4, 5 & 6	I

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 THE **FLORIDA BUILDING CODE, ACCESSIBILITY.** CONTRACTOR SHALL RE-KEY DOORS AT COMPLETION OF PROJECT.
G. ALL STEEL DOORS SHALL BE PAINTED PRIOR TO INSTALLATION OF HARDWARE
H. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE GALVANIZED
I. REFER TO FLOOR PLAN FOR DOOR SWINGS
J. EXIT DOORS: DURING BUSINESS HOURS EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT USE OF A KEY
K. HARDWARE SUPPLIER TO VERIFY ALL HARDWARE COMPONENTS ARE COMPATIBLE WITH ACCOMPANYING ITEMS AND ARE IN COMPLIANCE WITH ALL STATE OR PRODUCT APPROVALS
L. HARDWARE SUPPLIER TO CONFIRM HARDWARE FINISHES MATCH STOREFRONT FINISH COLOR
M. 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 FBC COMPLIANCE INFORMATION
N. DOOR CLOSERS SHALL MEET THE REQUIREMENTS OF THE **FLORIDA ACCESSIBILITY CODE** 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
O. EXTERIOR HINGED DOORS SHALL MEET THE REQUIREMENTS OF THE **FLORIDA ACCESSIBILITY CODE** AND SHALL BE DESIGNED SO THAT SUCH DOORS CAN BE PUSHED OR PULLED WITH A FORCE NOT EXCEEDING 8.5 POUNDS

FRAME OPENING SCHEDULE REMARKS

1. PAINT DOOR AND FRAME, SEMI-GLOSS PAINT, U.O.N. COLOR TO MATCH ADJACENT WALL COLOR
2. PROVIDE INSULATED HOLLOW METAL DOOR
3. ALUMINUM STOREFRONT FRAME AND DOOR COMPONENTS SHALL BE **"BLACK"**
4. **ALUMINUM STOREFRONT BASED ON YKK YES 45FI SYSTEM WITH 1" INSULATED GLASS, CLEAR, LOW-E. DOORS SHOULD BE MEDIUM STYLE, HEAVY DUTY, BASED ON YKK MODEL 35D WITH 1" INSULATED GLASS**
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 / WALK-UP WINDOW

WINDOW UNIT

QUIKSERV "IFSC-4040" WINDOW
48" HIGH X 48" WIDE
COLOR "BLACK"
* PROVIDE DRIVE-THRU SHELF

QUIKSERV CORP.
11441 BRITTMORE PARK DRIVE
HOUSTON, TX 77041
PH: 713-6937-3437

HARDWARE SCHEDULE

HARDWARE SET NO. 1 - EXTERIOR STOREFRONT ENTRANCE - PAIR			
(4) OFFSET PIVOTS	BY MFR.		
(1) FLUSH BOLT	MS2180	121	ADAMS RITE
(1) THRESHOLD BOLT	4015-18-1B		ADAMS RITE
(1) HEADER BOLT	4016		ADAMS RITE
(1) MORTISE DEADLOCK	MS1850S	313	ADAMS RITE
(1) CYLINDER	72 41 101	US20D	SARGENT
(1) THUMBTURN CYLINDER	4066-01	313	ADAMS RITE
(1) EXIT INDICATOR	4089	121	ADAMS RITE
(2) PUSH BAR	BY MFR.		
(2) OFFSET PULLS	BY MFR.		
(2) DOOR CLOSER	351 O (TOP JAMB)	EB	SARGENT
(2) TOP JAMB MOUNTING PLATE	351A OR 351B (AS REQ'D)	EB	SARGENT
(1) THRESHOLD	170D MSES25SS X OPEN'G WIDTH		PEMKO
	SET IN NON-SHRINK GROUT BED		
(1) WEATHERSTRIPPING	BY MFR.		
(2) SWEEP	315DN TKSP8 X DOOR WIDTH		PEMKO

HARDWARE SET NO. 2 - EXTERIOR STOREFRONT ENTRANCE - SINGLE			
(2) OFFSET PIVOTS	BY MFR.		
(1) CYLINDER	72 41 101	US20D	SARGENT
(1) THUMBTURN CYLINDER	4066-01	121	ADAMS RITE
(1) EXIT INDICATOR	4089	121	ADAMS RITE
(1) PUSH BAR	BY MFR.		
(1) OFFSET PULLS	BY MFR.		
(2) DOOR CLOSER	351 O (TOP JAMB)	EB	SARGENT
(1) TOP JAMB MOUNTING PLATE	351A OR 351B (AS REQ'D)	EB	SARGENT
(1) THRESHOLD	170D MSES25SS X OPEN'G WIDTH		PEMKO
	SET IN NON-SHRINK GROUT BED		
(1) WEATHERSTRIPPING	BY MFR.		
(1) SWEEP	315DN TKSP8 X DOOR WIDTH		PEMKO

HARDWARE SET NO. 3 - EXTERIOR HOLLOW METAL EXIT - SINGLE			
QTY. ITEM			
(3) HINGE	T4A2314 X NRP 4 1/2" x 4 1/2"	US32D	MCKINNEY
(1) EXIT DEVICE	HC 43 72 8806ETL	US32D	SARGENT
(1) DOOR CLOSER	351 CPSH	EN	SARGENT
(1) KICK PLATE	K1050 8" X LAR 4BE CSK	US32D	ROCKWOOD
(1) THRESHOLD	2005AV MSES25SS X OPN'G WIDTH		PEMKO
	SET IN NON-SHRINK GROUT BED		
(1) RAIN DRIP	346C TKSP8 X OPEN'G WIDTH +4"		PEMKO
(1) WEATHER STRIPPING	303AV TKSP8 HEAD AND JAMBS		PEMKO
(1) SWEEP	315CN TKSP8 X DOOR WIDTH		PEMKO
(3) SILENCER	608		ROCKWOOD
(1) DOOR VIEWER	622	DCRM	ROCKWOOD
(1) LATCH PROTECTOR	321	US32D	ROCKWOOD

HARDWARE SET NO. 4 - EXTERIOR HOLLOW METAL EXIT - SINGLE			
(1) HINGE	MARKAR FM300, 84"	US32D	PEMKO
(1) LOCKSET	T2 ETDL2700, WATERPROOF	US26D	TRILOGY
(1) EXIT DEVICE	PANIC PUSH HARDWARE, 98	626	VON DUPRIN
(1) DOOR CLOSER	1431 RUO EN	US26D	SARGENT
(1) KICK PLATE	1905, 34" X 30"	US32D	HAGER
(1) THRESHOLD	2716A		PEMKO
	SET IN NON-SHRINK GROUT BED		
(1) DOOR SEAL	AM88BL		PEMKO
(1) WEATHER STRIPPING	303AV TKSP8 HEAD AND JAMBS		PEMKO
(1) SWEEP	211APK (DOOR WIDTH)		PEMKO
(3) SILENCER	608		ROCKWOOD
(1) DOOR STOP AND HOLDER	FS43	US26D	IVES

FWH Architects
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GUY F. FABER
FL License No. AR0015323
seal

no.	date	revision descriptions

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2235 S. WOODLAND BLVD
DELAND, FL

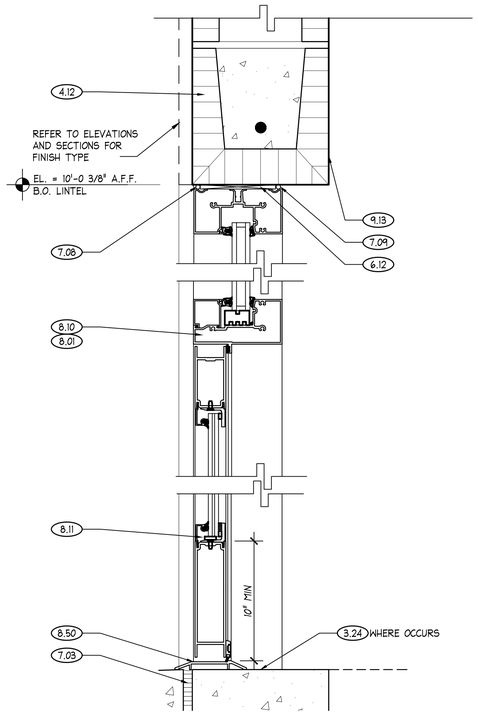
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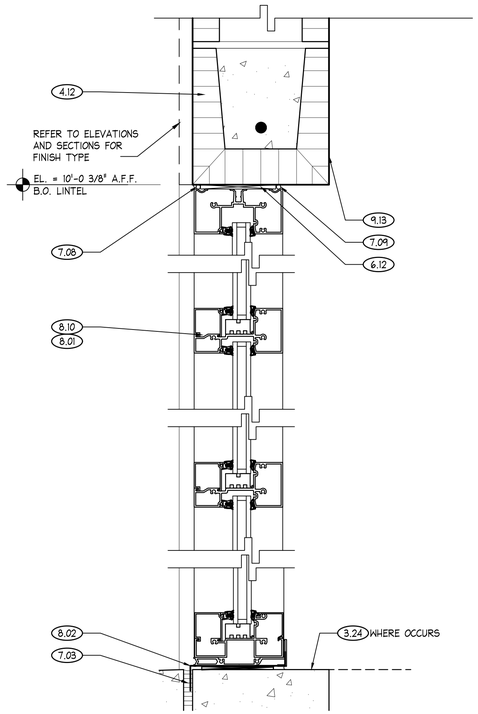
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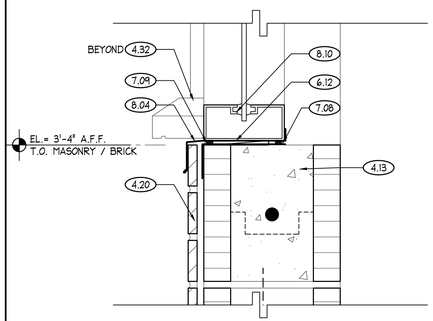
STOREFRONT HEAD/ THRESHOLD DETAIL

1 SCALE: 3" = 1'-0"



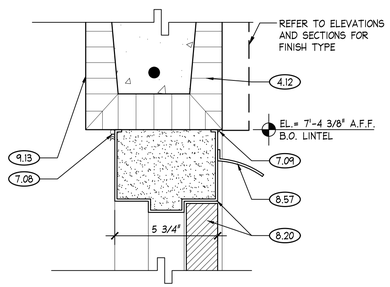
STOREFRONT HEAD/ SILL DETAIL

2 SCALE: 3" = 1'-0"



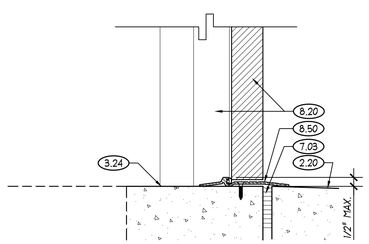
STOREFRONT SILL DETAIL

3 SCALE: 3" = 1'-0"



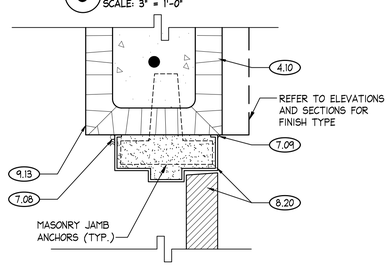
DOOR HEAD DETAIL

5 SCALE: 3" = 1'-0"



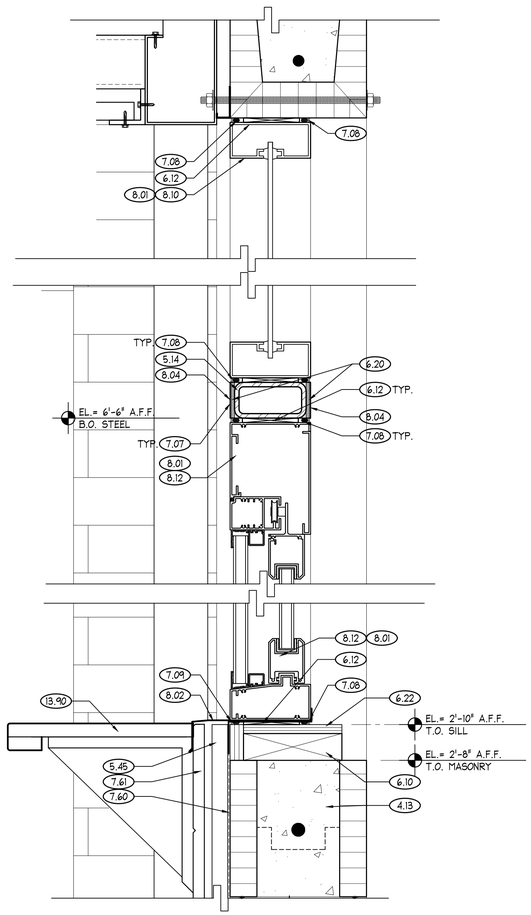
ALUMINUM THRESHOLD DETAIL

4 SCALE: 3" = 1'-0"



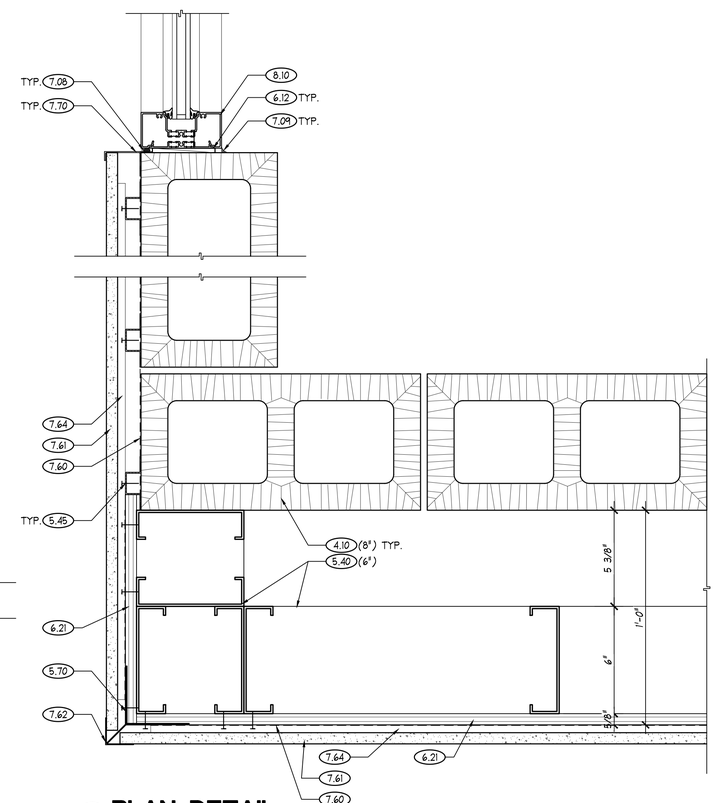
DOOR JAMB DETAIL

6 SCALE: 3" = 1'-0"



STOREFRONT HEAD / SILL DETAIL

7 SCALE: 3" = 1'-0"



PLAN DETAIL

8 SCALE: 3" = 1'-0"

4/9/2026 8:19 AM

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GUY F. FABER
FL License No. AR0015323
seal

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MULTITENANT RETAIL AT DELAND

2235 S. WOODLAND BLVD
DELAND, FL

04.08.2026
date

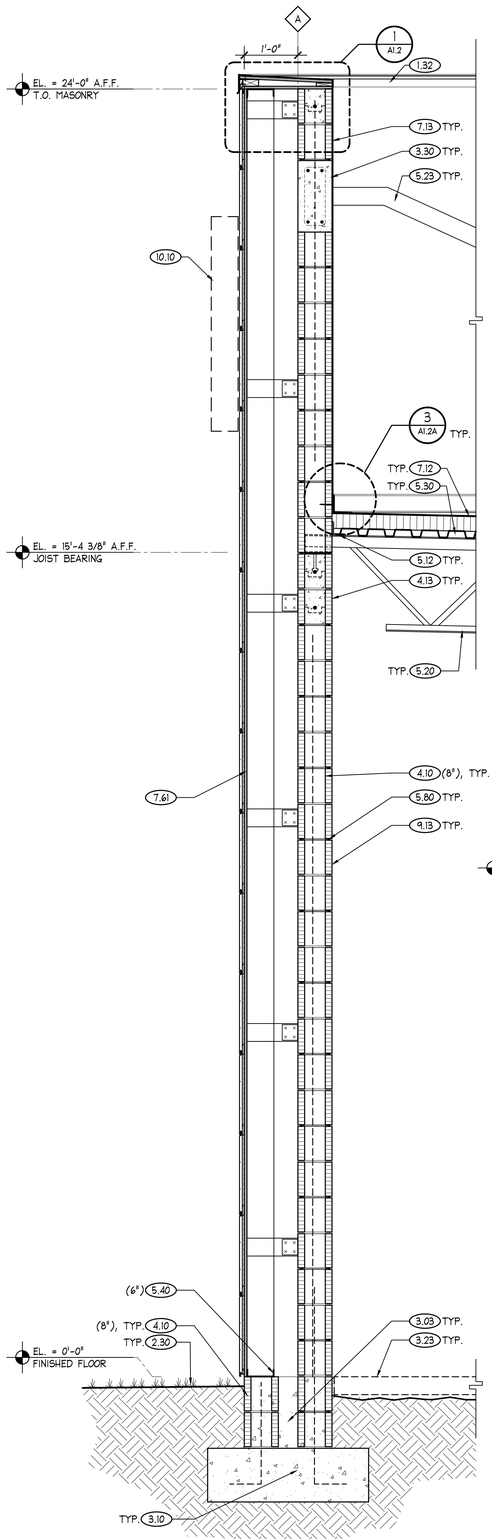
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comm. no.

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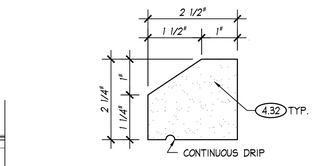
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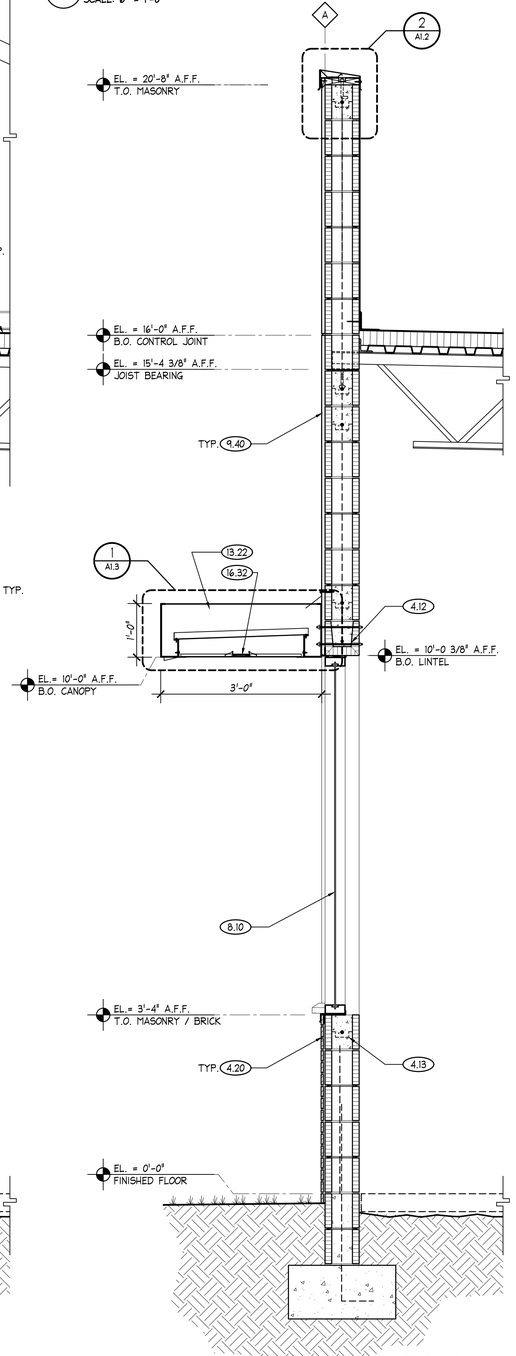
REFER TO SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS



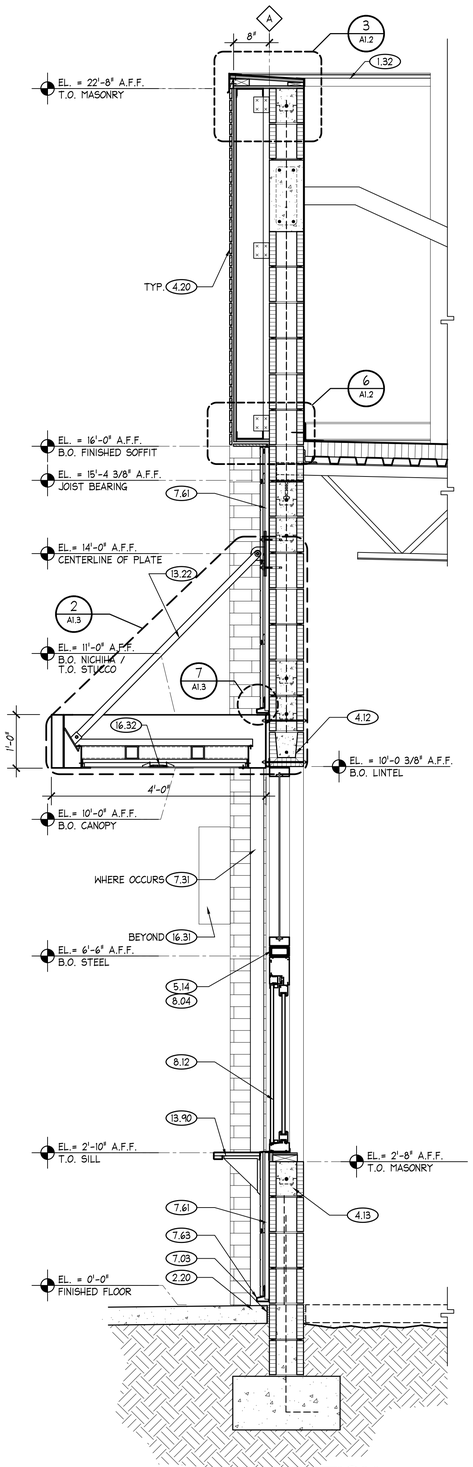
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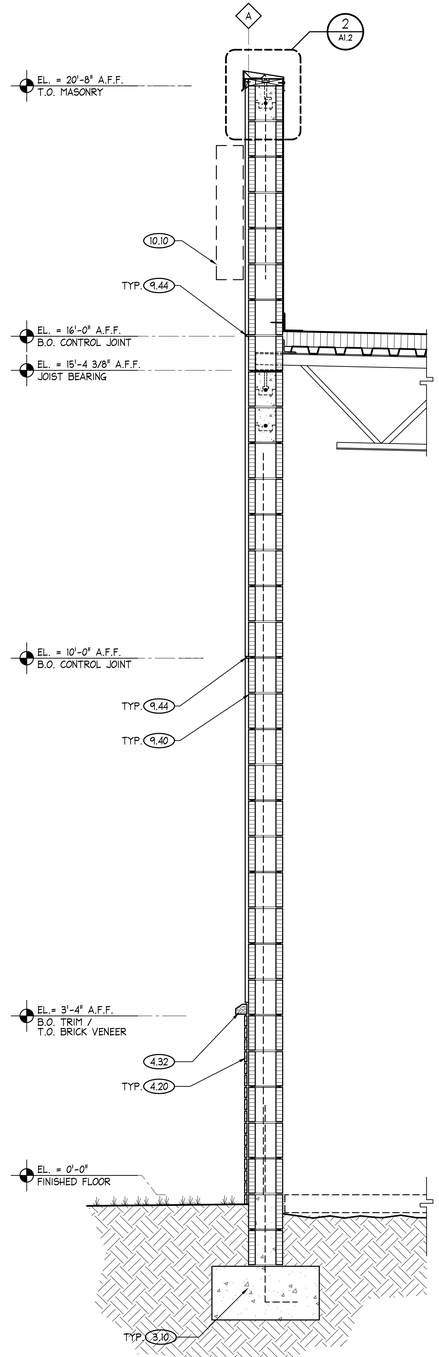
5 PRECAST CONCRETE WATERTABLE PROFILE
SCALE: 6" = 1'-0"



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



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



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

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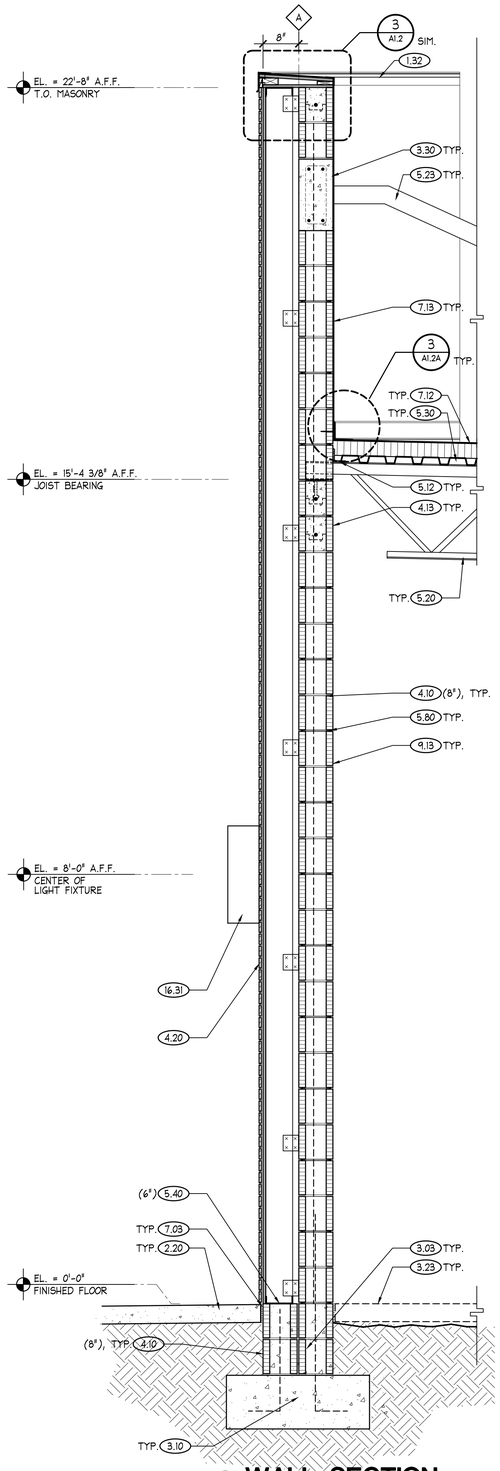
WALL SECTIONS

A5.0

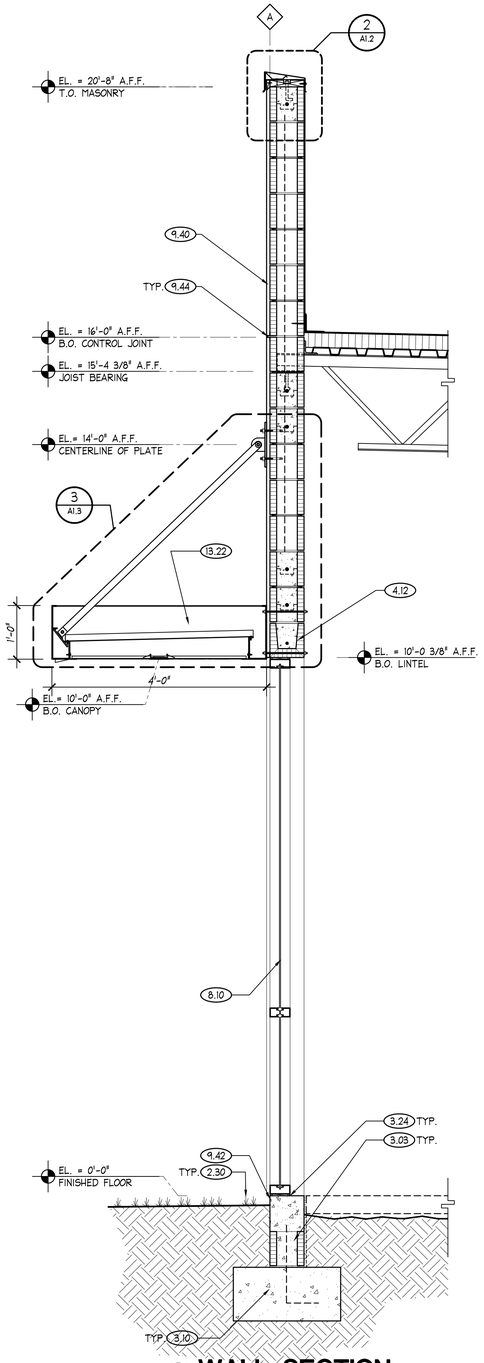
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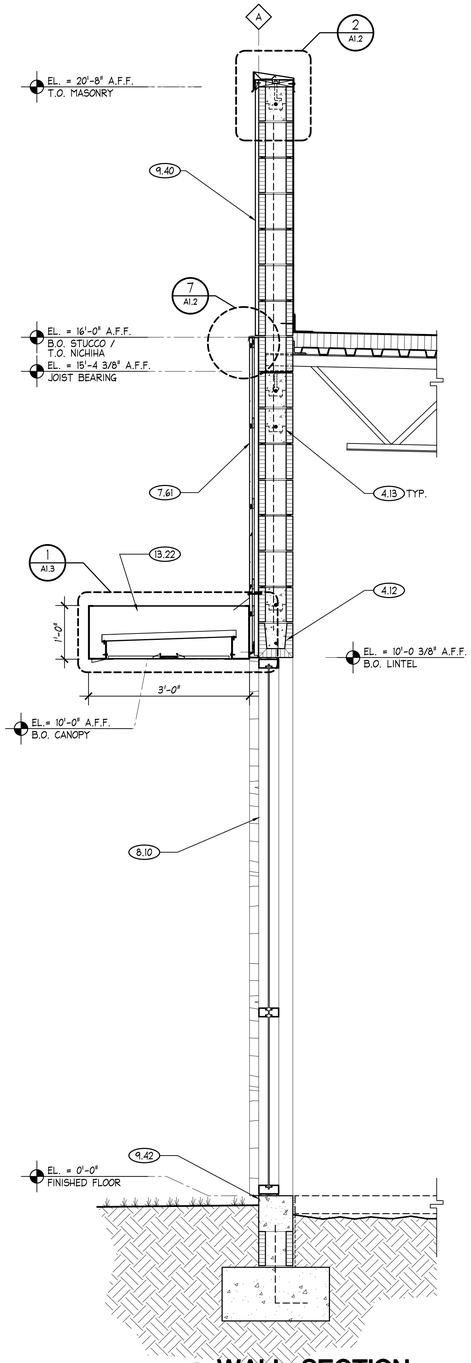
REFER TO SHEET A0.4 FOR THE KEYNOTES REFERENCED THROUGHOUT THE CONSTRUCTION DRAWINGS



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



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



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

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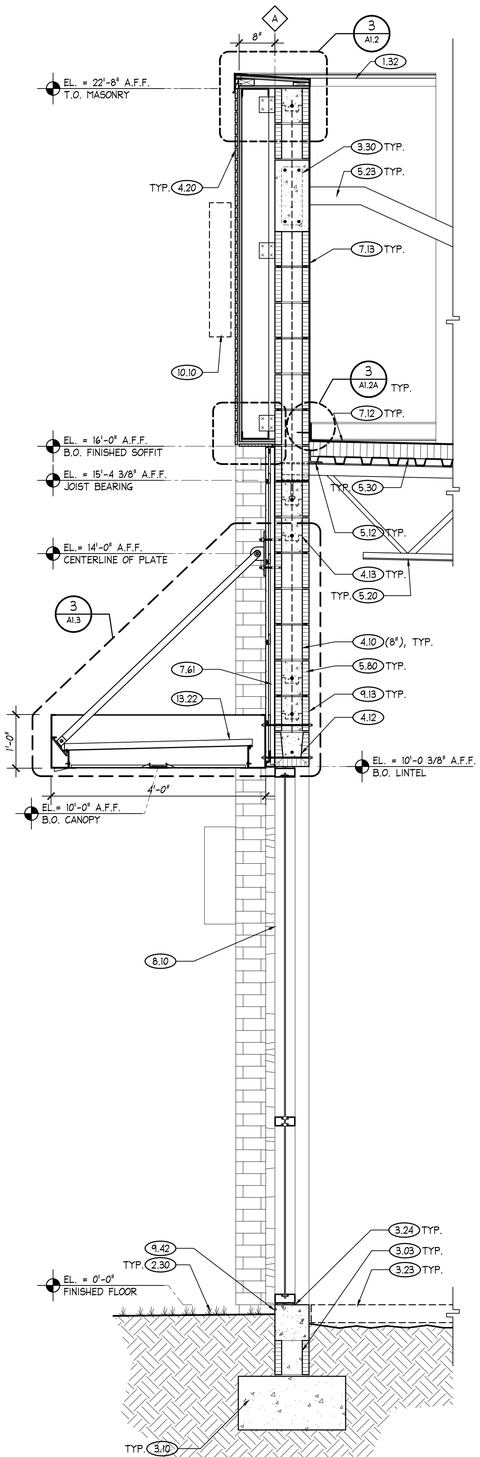
WALL SECTIONS

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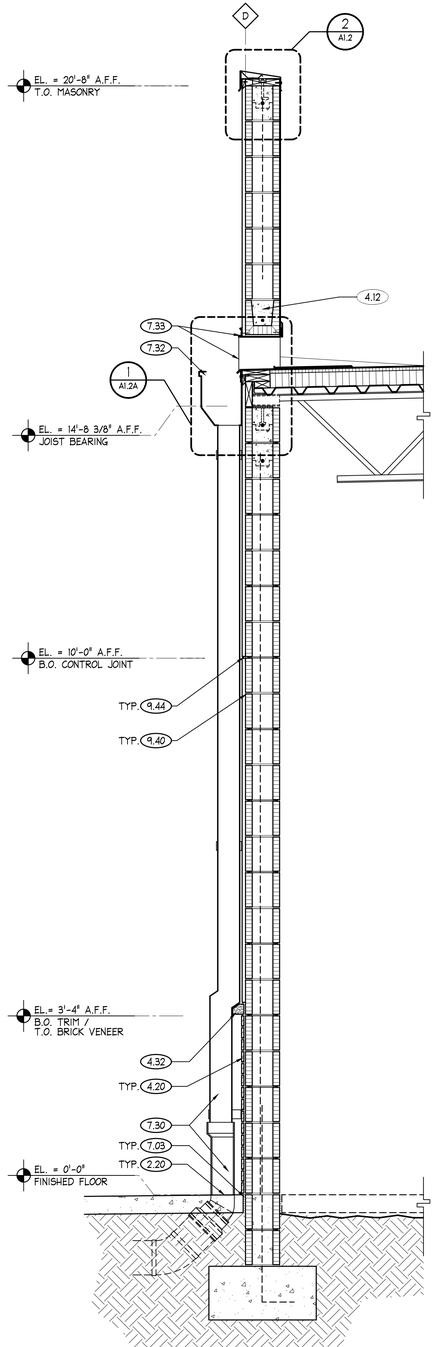
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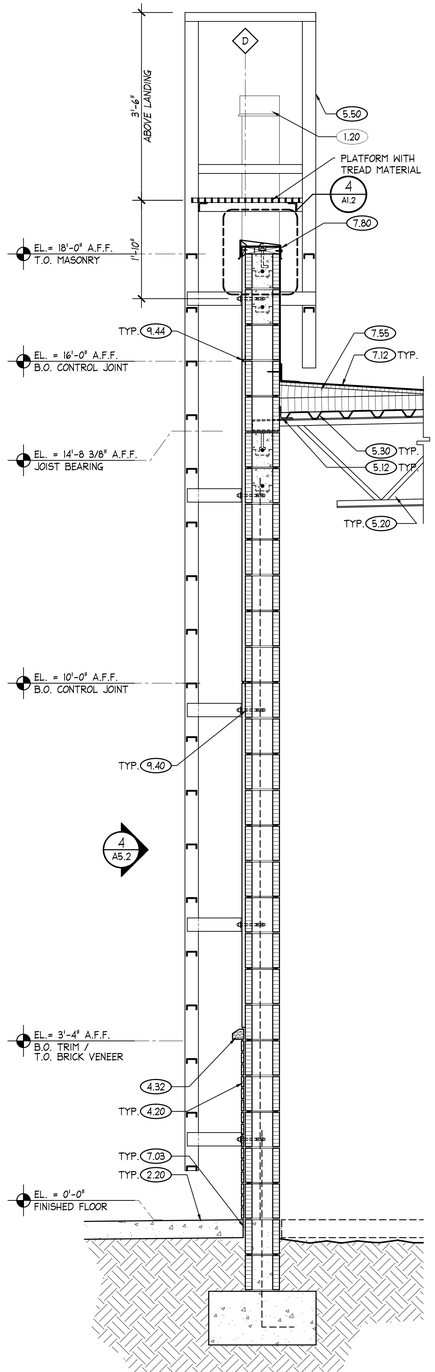
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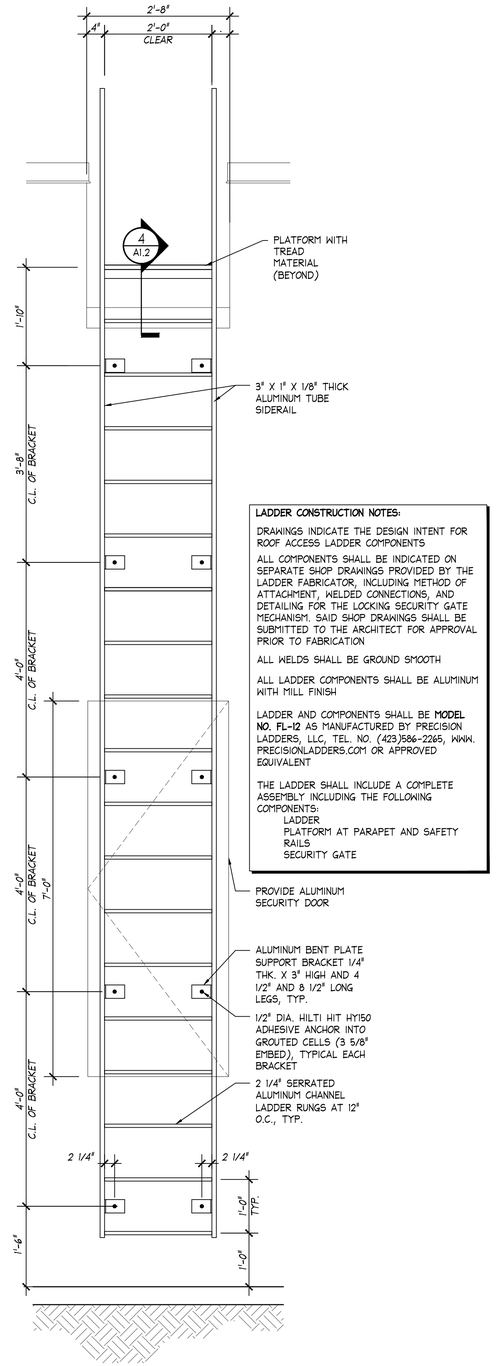
1 WALL SECTION
SCALE: 3/4" = 1'-0"



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



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



LADDER CONSTRUCTION NOTES:

DRAWINGS INDICATE THE DESIGN INTENT FOR ROOF ACCESS LADDER COMPONENTS

ALL COMPONENTS SHALL BE INDICATED ON SEPARATE SHOP DRAWINGS PROVIDED BY THE LADDER FABRICATOR, INCLUDING METHOD OF ATTACHMENT, WELDED CONNECTIONS, AND DETAILING FOR THE LOCKING SECURITY GATE MECHANISM. SAID SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION

ALL WELDS SHALL BE GROUND SMOOTH

ALL LADDER COMPONENTS SHALL BE ALUMINUM WITH MILL FINISH

LADDER AND COMPONENTS SHALL BE **MODEL NO. FL-12** AS MANUFACTURED BY PRECISION LADDERS, LLC, TEL. NO. (423)586-2265, WWW.PRECISIONLADDERS.COM OR APPROVED EQUIVALENT

THE LADDER SHALL INCLUDE A COMPLETE ASSEMBLY INCLUDING THE FOLLOWING COMPONENTS:
- LADDER
- PLATFORM AT PARAPET AND SAFETY RAILS
- SECURITY GATE

4 LADDER DETAIL
SCALE: 3/4" = 1'-0"

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GUY F. FABER
FL License No. AR0015323
seal

no.	date	revision descriptions

MULTITENANT RETAIL AT DELAND
2235 S. WOODLAND BLVD
DELAND, FL

04.08.2026
date

25026
comm. no.

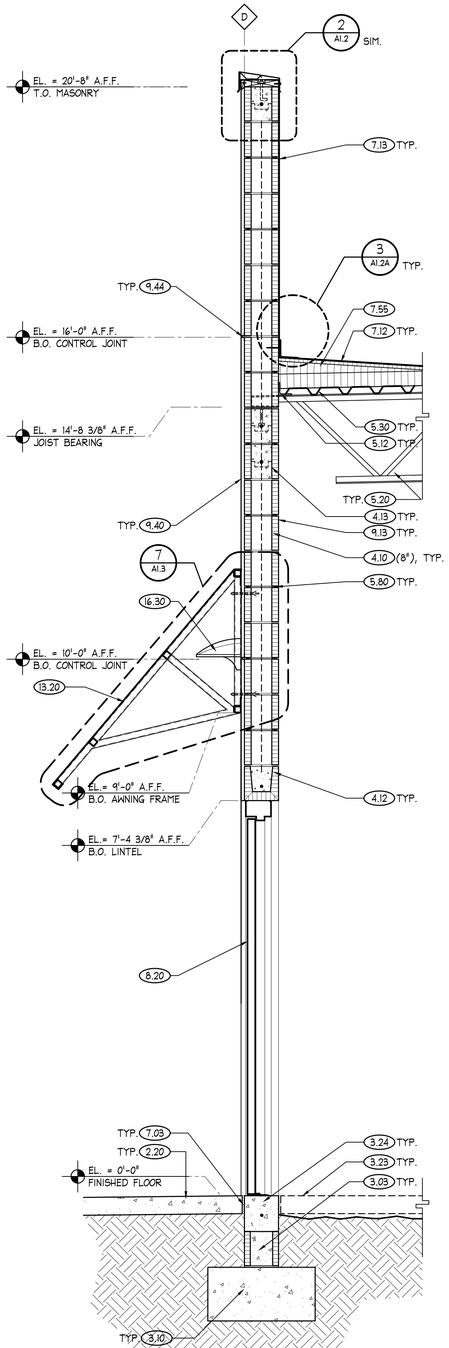
WALL SECTIONS

A5.2

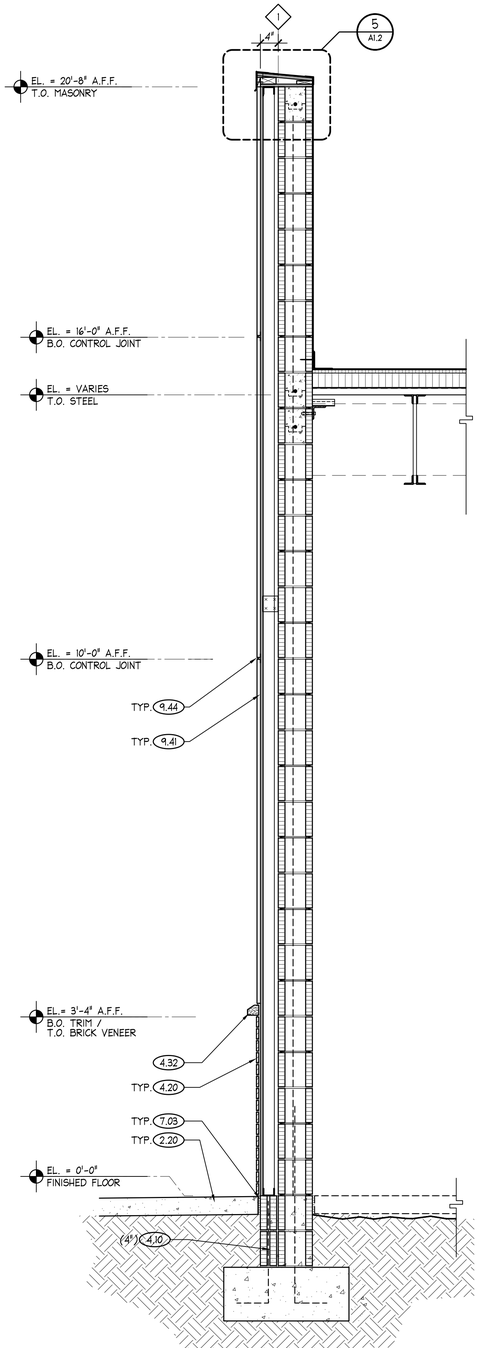
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TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS "TYPICAL" (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION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

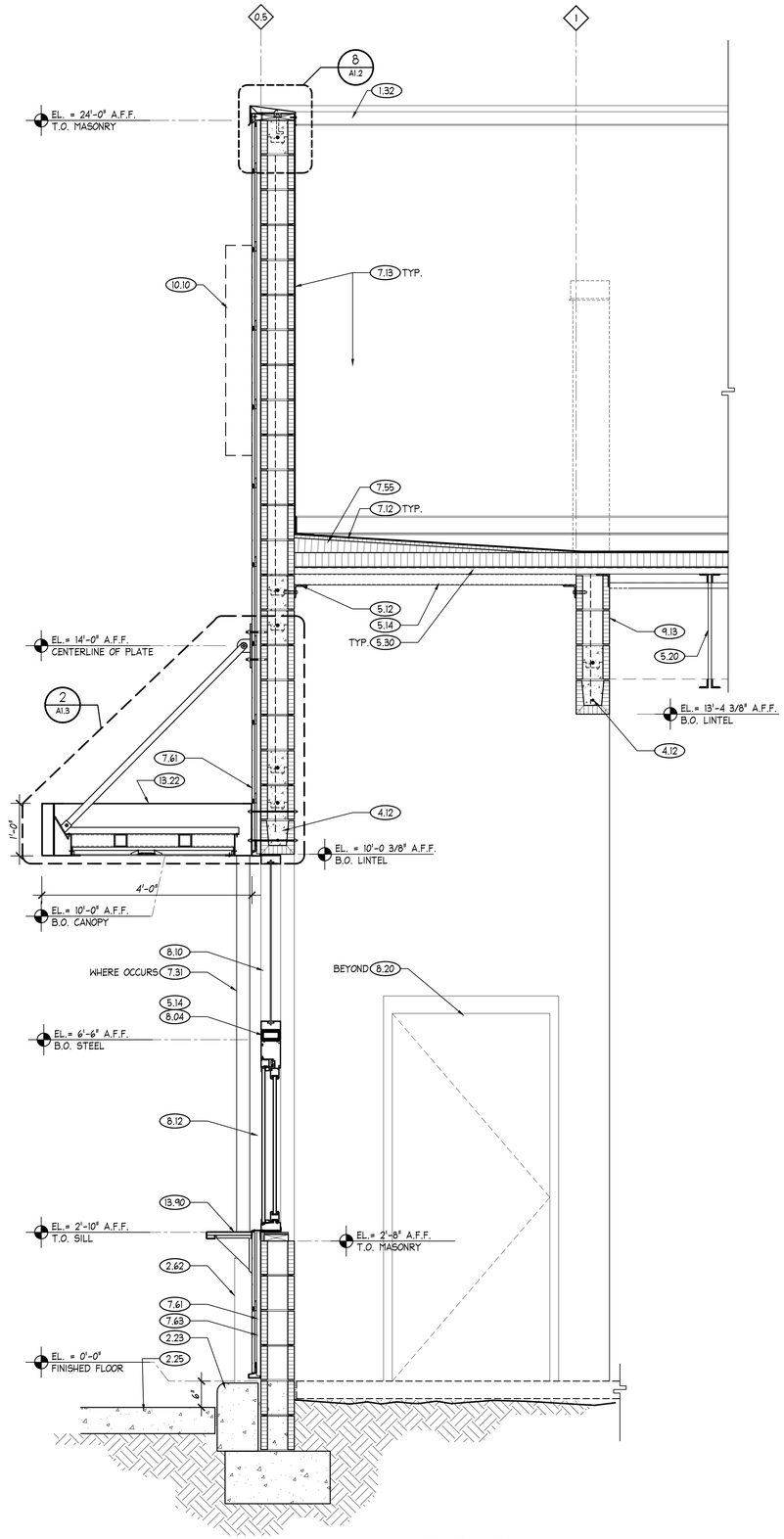
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1 WALL SECTION
SCALE: 3/4" = 1'-0"



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



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

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04.08.2026
date

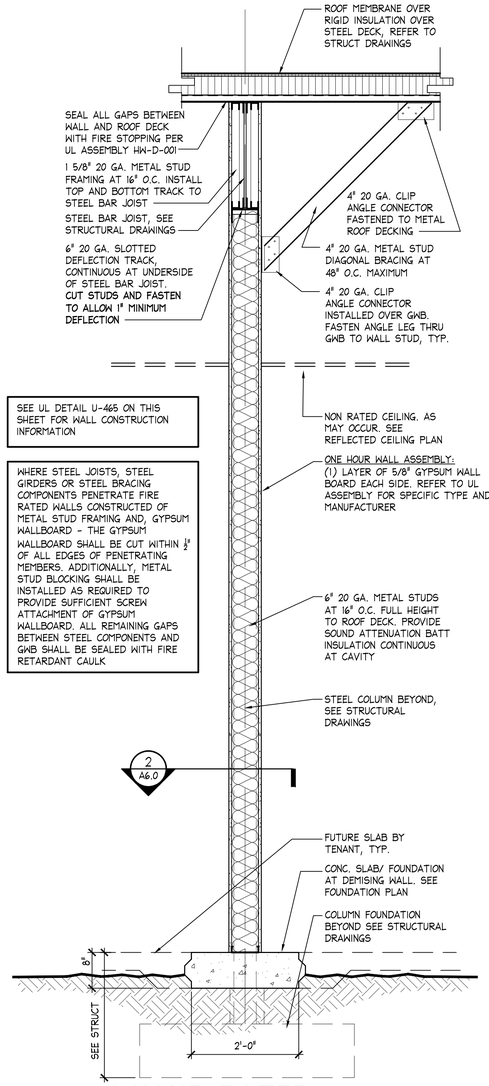
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WALL SECTIONS

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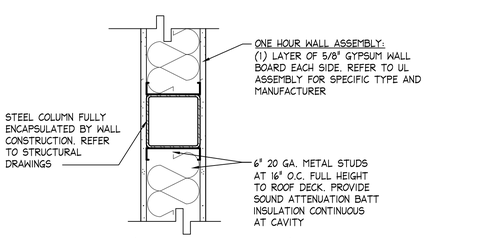
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STANDARD FIRE PENETRATION DETAILS ARE PROVIDED ON THIS SHEET AND IN MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. IF THE GENERAL CONTRACTOR OR HIS/HER SUBCONTRACTOR SHOULD ENCOUNTER A PENETRATION THRU A RATED ASSEMBLY THAT IS NOT EXPLICITLY ALLOWED BY THE DETAILS PROVIDED, IT SHALL BE UNDERSTOOD THAT THE GC SHALL NOTIFY THE ARCHITECT AND INFORM HIM OF THE CONDITION. AN APPROPRIATE UL ASSEMBLY WILL BE PROVIDED TO THE GC AND, ACCORDINGLY, TO THE BUILDING DEPARTMENT.



1 HOUR RATED DEMISING WALL SECTION

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



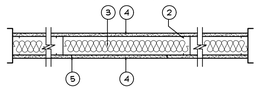
HORIZONTAL SECTION AT COLUMN

2 SCALE: 1 1/2" = 1'-0"

UL DESIGN NO. U465

SCALE : N.T.S.

NON-BEARING WALL RATING - 1HR.



MARCH 2, 2022

NONBEARING WALL RATING —1 HR.
# INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

1. FLOOR AND CEILING RUNNERS —(NOT SHOWN) —CHANNEL SHAPED RUNNERS, 3-5/8 IN. DEEP (MIN), 1-1/4 IN. LEGS, FORMED FROM MIN NO. 25 MSG GALV STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS SPACED 24 IN. OC MAX.

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
QUAIL RUN BUILDING MATERIALS INC —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
SCAFCO STEEL STUD MANUFACTURING CO —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
TELLING INDUSTRIES L L C —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
UNITED METAL PRODUCTS INC —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20

2. STEEL STUDS —CHANNEL SHAPED, 3-5/8 IN. DEEP (MIN), FORMED FROM MIN NO. 25 MSG GALV STEEL SPACED 24 IN. OC MAX. STUDS TO BE CUT 3/4 IN. LESS THAN ASSEMBLY HEIGHT.
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20

QUAIL RUN BUILDING MATERIALS INC —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
SCAFCO STEEL STUD MANUFACTURING CO —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
TELLING INDUSTRIES L L C —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20
UNITED METAL PRODUCTS INC —TYPE SUPREME D24/30EGD AND TYPE SUPREME D20

3. BATTS AND BLANKETS# —(OPTIONAL) —MINERAL WOOL OR GLASS FIBER BATTS PARTIALLY OR COMPLETELY FILLING STUD CAVITY.
SEE BATTS AND BLANKETS (BZJI.I2) CATEGORY FOR NAMES OF CLASSIFIED COMPANIES.

ROCKWOOL —TYPE AFB, MIN. DENSITY 1.69 PCF / 27.0 KG/M3
ROCKWOOL MALAYSIA SDN BHD —TYPE ACOUSTICAL FIRE BATTS

4. GYPSUM BOARD# —5/8 IN. THICK, 4 FT WIDE, ATTACHED TO STEEL STUDS AND FLOOR AND CEILING TRACK WITH 1 IN. LONG, TYPE S STEEL SCREWS SPACED 8 IN. OC. ALONG EDGES OF BOARD AND 12 IN. OC IN THE FIELD OF THE BOARD. JOINTS ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY. WHEN STEEL FRAMING MEMBERS# (ITEM 6 OR ANY ALTERNATE CLIPS) ARE USED, GYPSUM BOARD IS SCREW ATTACHED TO FURRING CHANNELS WITH 1 IN. LONG, TYPE S STEEL SCREWS SPACED 12 IN. OC.

AMERICAN GYPSUM CO —TYPES AG-C, AGX-1, M-GLASS, LIGHTROC
BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO —TYPE DBX-1
CABOT MANUFACTURING ULC —TYPE X, 5/8 TYPE X, TYPE BLUEGLASS EXTERIOR SHEATHING
CGC INC —TYPES AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC OR WRX (JOINT TAPE AND COMPOUND, ITEM 5, OPTIONAL FOR USE WITH TYPE USGX)
CERTAINTEED GYPSUM INC —TYPES EGRG, GLASROC, TYPE X, TYPE X-1, TYPE C, 5/8" EASI-LITE TYPE X, EASI-LITE TYPE X-2
CERTAINTEED GYPSUM INC —TYPES LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX
GEORGIA-PACIFIC GYPSUM L L C —TYPES 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, D5, GPFS6, LS, TYPE X, VENEER PLASTER BASE - TYPE X, WATER RATED - TYPE X, SHEATHING - TYPE X, SOFFIT - TYPE X, TG-C, GREENGLASS TYPE X, TYPE X COMFORTGUARD SOUND DEADENING GYPSUM BOARD, TYPE LNX, VENEER PLASTER BASE-TYPE LNX, WATER RATED-TYPE LHX, SHEATHING TYPE-LHX, SOFFIT-TYPE LHX, TYPE DGLW, WATER RATED-TYPE DGLW, SHEATHING TYPE- DGLW, SOFFIT-TYPE DGLW, TYPE LNZX, VENEER PLASTER BASE - TYPE LNZX, WATER RATED - TYPE LNZX, SHEATHING - TYPE LNZX, SOFFIT - TYPE LHZX, TYPE DGL2W, WATER RATED - TYPE DGL2W, SHEATHING - TYPE DGL2W
NATIONAL GYPSUM CO —TYPES EXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSL, RSX.
NATIONAL GYPSUM CO —RIYADH, SAUDI ARABIA —TYPE FR, OR WR
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM —TYPES PG-C, PG-9, PG-11, PGS-WRS, PGI
PANEL REY S A —TYPES GREX, GRIX, PRC, PRC2, PRX, RHX, TIDX, ETX, PRX2
SAINT-GOBAIN GYPROC MIDDLE EAST FZE —TYPE GYPROC FIRESTOP, GYPROC FIRESTOP MR, GYPROC FIRESTOP M2TECH, GYPROC FIRESTOP ACTIV'AIR, GYPROC FIRESTOP MR ACTIV'AIR, GYPROC FIRESTOP M2TECH ACTIV'AIR, GYPROC DURALINE, GYPROC DURALINE MR, GYPROC DURALINE M2TECH, GYPROC DURALINE ACTIV'AIR, GYPROC DURALINE MR ACTIV'AIR, GYPROC DURALINE M2TECH ACTIV'AIR
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD —TYPE EX-1
THAI GYPSUM PRODUCTS PCL —TYPE X, TYPE C
UNITED STATES GYPSUM CO —TYPE AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX, (JOINT TAPE AND COMPOUND, ITEM 5, OPTIONAL FOR USE WITH TYPE USGX)
USG BORAL DRYWALL SFZ LLC —TYPES C, SCX, USGX (JOINT TAPE AND COMPOUND, ITEM 5, OPTIONAL FOR USE WITH TYPE USGX)
USG MEXICO S A DE C V —TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC OR WRX (JOINT TAPE AND COMPOUND, ITEM 5, OPTIONAL FOR USE WITH TYPE USGX)
CERTAINTEED GYPSUM INC —TYPE LGFC6A, LGFC-C/A
NATIONAL GYPSUM CO —TYPES FSW
UNITED STATES GYPSUM CO —TYPE SCX, ULIX
USG BORAL DRYWALL SFZ LLC —TYPE SCX

5. JOINT TAPE AND COMPOUND —VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS. PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS. AS AN ALTERNATE, NOMINAL 3/32 IN. THICK GYPSUM VENEER PLASTER MAY BE APPLIED TO THE ENTIRE SURFACE OF CLASSIFIED VENEER BASEBOARD. JOINTS REINFORCED. PAPER TAPE AND JOINT COMPOUND MAY BE OMITTED WHEN GYPSUM BOARDS ARE SUPPLIED WITH SQUARE EDGES.
6. RESILIENT CHANNEL —(OPTIONAL —NOT SHOWN) —25 MSG GALV STEEL RESILIENT CHANNELS SPACED VERTICALLY MAX 24 IN. OC, FLANGE PORTION ATTACHED TO EACH INTERSECTING STUD WITH 1/2 IN. LONG TYPE S-12 PAN HEAD STEEL SCREWS. MAY NOT BE USED WITH ITEM 4F, 4J OR 4L.

7. WALL AND PARTITION FACINGS AND ACCESSORIES# —(OPTIONAL, NOT SHOWN) —NOMINAL 1/2 IN. THICK, 4 FT WIDE PANELS, FOR OPTIONAL USE AS AN ADDITIONAL LAYER ON ONE OR BOTH SIDES OF THE ASSEMBLY. PANELS ATTACHED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHEN THE QR-500 OR QR-510 PANEL IS INSTALLED BETWEEN THE STEEL FRAMING AND THE UL CLASSIFIED GYPSUM BOARD, THE REQUIRED UL CLASSIFIED GYPSUM BOARD LAYER(S) IS/ARE TO BE INSTALLED AS INDICATED AS TO FASTENER TYPE AND SPACING, EXCEPT THAT THE REQUIRED FASTENER LENGTH SHALL BE INCREASED BY A MINIMUM OF 1/2 IN. NOT EVALUATED OR INTENDED AS A SUBSTITUTE FOR THE REQUIRED LAYER(S) OF UL CLASSIFIED GYPSUM BOARD.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM —TYPE QUIETROCK QR-500 AND QR-510

8. MINERAL AND FIBER BOARD# —(OPTIONAL, NOT SHOWN) —FOR OPTIONAL USE AS AN ADDITIONAL LAYER ON ONE SIDE OF WALL. NOM 1/2 IN. THICK, 4 FT WIDE WITH LONG DIMENSION PARALLEL AND CENTERED OVER STUDS. ATTACHED TO STUDS AND FLOOR AND CEILING RUNNERS WITH 1-5/8 IN. LONG TYPE S STEEL SCREWS, SPACED 12 IN. OC AND 24 IN. OC ALONG ALL INTERMEDIATE FRAMING. THE REQUIRED UL CLASSIFIED GYPSUM BOARD LAYER (ITEM 4M) IS TO BE INSTALLED OVER THE MINERAL AND FIBER BOARDS. BATTS AND BLANKETS, ITEM 3D, AND ADHESIVE, ITEM 11, ARE REQUIRED.
HOMASOTE CO —HOMASOTE TYPE 440-32

9. LEAD BATTEN STRIPS —(NOT SHOWN, FOR USE WITH ITEM 4E) —LEAD BATTEN STRIPS, MIN 1-1/2 IN. WIDE, MAX 10 FT LONG WITH A MAX THICKNESS OF 0.125 IN. STRIPS PLACED ON THE INTERIOR FACE OF STUDS AND ATTACHED FROM THE EXTERIOR FACE OF THE STUD WITH TWO 1 IN. LONG TYPE S-12 PAN HEAD STEEL SCREWS, ONE AT THE TOP OF THE STRIP AND ONE AT THE BOTTOM OF THE STRIP. LEAD BATTEN STRIPS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE 'C'. LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED GYPSUM BOARD (ITEM 4E) AND OPTIONAL AT REMAINING STUD LOCATIONS. REQUIRED BEHIND VERTICAL JOINTS.
10. LEAD DISCS OR TABS —(NOT SHOWN, FOR USE WITH ITEM 4E) —USED IN LIEU OF OR IN ADDITION TO THE LEAD BATTEN STRIPS (ITEM 8) OR OPTIONAL AT OTHER LOCATIONS - MAX 3/4 IN. DIAM BY MAX 0.125 IN. THICK LEAD DISCS COMPRESSION FITTED OR ADHERED OVER STEEL SCREW HEADS OR MAX 1/2 IN. BY 1-1/4 IN. BY MAX 0.125 IN. THICK LEAD TABS PLACED ON GYPSUM BOARDS (ITEM 4E) UNDERNEATH SCREW LOCATIONS PRIOR TO THE INSTALLATION OF THE SCREWS. LEAD DISCS OR TABS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE 'C'.
11. ADHESIVE —NOT SHOWN —(FOR USE WITH ITEM 8) —CONSTRUCTION GRADE ADHESIVE APPLIED IN VERTICAL, SERPENTINE, NOMINAL 3/8 IN. WIDE BEADS DOWN THE LENGTH OF BOTH VERTICAL EDGES OF MINERAL AND FIBER BOARD (ITEM 8).
12. WALL AND PARTITION FACINGS AND ACCESSORIES# —(CLBV) (OPTIONAL, NOT SHOWN) —FOR USE WITH ITEMS 1 TO 11, ITEMS 2 TO 2J, ITEM 3, ITEMS 4 TO 4I, ITEM 5 AND ITEM 6. FOR MAXIMUM FIRE RATING OF 1 HOUR. ON ONE SIDE OF THE WALL, OVER THE FIRST LAYER OF GYPSUM BOARD (ITEM 4 TO ITEM 4I), INSTALL REFLEXOR MEMBRANE WITH THE GOLD SIDE FACING OUTWARDS. MEMBRANE INSTALLED WITH T50 STAPLES SPACED 12 INCHES ON CENTER IN BOTH DIRECTIONS AS PER MANUFACTURER'S INSTRUCTIONS, SEAMS IN MEMBRANE TO BE OVERLAPPED BY 2 INCHES. WHEN REFLEXOR MEMBRANE IS USED AN ADDITIONAL LAYER OF GYPSUM BOARD THAT IS IDENTICAL TO THE ONE USED IN THE FIRST LAYER AND AS SPECIFIED IN ITEM 4 TO ITEM 4I SHALL BE INSTALLED OVER THE MEMBRANE. THE ADDITIONAL LAYER OF GYPSUM BOARD TO BE INSTALLED THROUGH THE MEMBRANE TO THE STUD AS SPECIFIED IN ITEM 4 TO ITEM 4I EXCEPT THE FASTENER LENGTH SHALL BE INCREASED BY A MINIMUM OF 5/8 INCH. INSTALL BATTS AND BLANKETS IN THE STUD CAVITY AS PER ITEM 3.
ON THE OTHER SIDE OF THE WALL, PRIOR TO THE INSTALLATION OF THE GYPSUM BOARD, INSTALL RESILIENT CHANNELS AS PER ITEM 6. OVER THE RESILIENT CHANNELS INSTALL 3/4 INCH THICK SONOPAN PANEL SECURED TO THE RESILIENT CHANNELS WITH MIN. 1-1/4 IN. LONG DRYWALL SCREWS AND WASHERS SPACED AT 16 IN. OC ON THE PERIMETER OF THE PANEL AND 8 IN. OC IN THE FIELD OF THE PANEL. OVER THE SONOPAN PANEL INSTALL THE SAME GYPSUM BOARD AS SPECIFIED IN ITEM 4 TO ITEM 4I WITH THE FASTENER LENGTH INCREASED BY MINIMUM 3/4 INCH. NOT EVALUATED OR INTENDED AS A SUBSTITUTE FOR THE REQUIRED LAYER(S) OF UL CLASSIFIED GYPSUM BOARD.

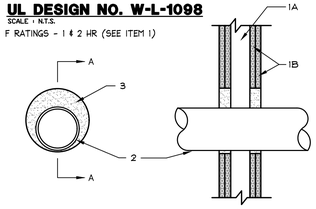
ALTERNATELY, ON THE OTHER SIDE OF THE WALL PRIOR TO THE INSTALLATION OF THE GYPSUM BOARD, INSTALL 3/4 IN. THICK SONOPAN PANELS, SECURED TO ONE SIDE OF STUDS EITHER HORIZONTALLY OR VERTICALLY. PANELS SECURED TO EACH STUD WITH MIN. 1-1/4 IN. LONG DRYWALL SCREWS SPACED 12 IN. OC. OVER THE SONOPAN, INSTALL 25 MSG GALV STEEL, RESILIENT CHANNELS, SPACED VERTICALLY 24 IN. OC. RESILIENT CHANNELS FASTENED THROUGH PANELS TO EACH STUD WITH MIN. 2 IN. LONG DRYWALL SCREWS OR SELF-TAPPING SCREWS. OVER THE RESILIENT CHANNELS INSTALL GYPSUM BOARD AS SPECIFIED IN ITEM 4 TO ITEM 4I WITH THE SPECIFIED DRYWALL SCREWS. PANELS NOT EVALUATED OR INTENDED AS A SUBSTITUTE FOR THE REQUIRED LAYER(S) OF UL CLASSIFIED GYPSUM BOARD.

MSL —REFLEXOR MEMBRANE, SONOPAN PANEL

UL DESIGN NO. W-L-1098

SCALE : N.T.S.

F RATINGS - 1 & 2 HR (SEE ITEM 1)



SECTION A-A

1. **WALL ASSEMBLY-** THE 1 OR 2 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNELS STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. O.C.

B. WALLBOARD, GYPSUM*- THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 14-1/8 IN.

THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. **THROUGH PENETRANTS-** ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 1 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.

A. STEEL PIPE
B. IRON PIPE
C. CONDUIT-NORM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.
D. COPPER TUBING
E. COPPER PIPE

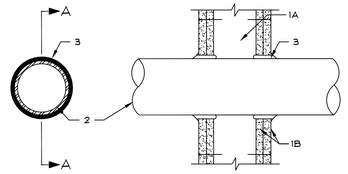
3. **FILL, VOID OR CAVITY MATERIAL*-** SEALANT-MIN 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL FOR 1 AND 2 HR RATED WALL ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

FIRESTOP SYSTEMS, INC- 4800DW
BEARING THE U.L. CLASSIFICATION MARKING.

UL DESIGN NO. W-L-1001

SCALE : N.T.S.

(FORMERLY SYSTEM NO. 147)
F RATINGS -- 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS -- 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT -- LESS THAN 1 CFM/SQ F
L RATING AT 400 F -- LESS THAN 1 CFM/SQ FT



SECTION A-A

1. **WALL ASSEMBLY -** THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. **STUDS** WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.

B. **GYPSUM BOARD #** NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13-1/2 IN.

2. **PIPE OR CONDUIT** NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3. **FILL, VOID OR CAVITY MATERIAL *** -- CAULK. CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIAM IN.	ANNULAR SPACE IN.	F RATING HR	T RATING HR
1	0 to 3/16	1 or 2	0+, 1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1-1/2	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 H.
3M CO -- CP 25WB+.
#BEARING THE UL CLASSIFICATION MARK

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

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

GUY F. FABER
FL License No. AR0015323
seal

no.	revision descriptions	date

MULTITENANT RETAIL AT DELAND
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DELAND, FL

04.08.2026
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25026
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U.L. ASSEMBLY DETAILS

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