



August 13, 2026

Project Name: Brandon Big Room Renovation - Phase 03

Project Number: 24-040.2

Owner: City of Brandon, Mississippi

Project Location: 1000 Municipal Dr Brandon, MS 39042



ADDENDUM NO. 3

NOTICE TO ALL DOCUMENT HOLDERS:

The following additions, deletions, changes and clarifications to the drawings and specifications are to be included as part of the Contract Documents.

Note! The Bid Date/Time is unchanged by this Addendum.

GENERAL

ITEM NO. 1 UPDATED BID FORM - INCLUDING ADD ALTERNATES

See enclosed Bid Form.

Contractors shall utilize this form to submit bids. Reflects Revised Contract Time and Alternates as of this Addenda.

ITEM NO. 2 DESCRIPTIONS OF ADD ALTERNATES

SHEET R302 SPECIFICATIONS

01.2300 ALTERNATES

Revise per the enclosed sheet.

ITEM NO. 3 REVISED CONTRACT TIME

Clarification: The owner intends to execute the Contract for Construction and issue a Notice to Proceed as soon as Possible. **All Work shall be Completed within 105 Calendar days from Notice to Proceed.**

SHEET R300 SPECIFICATIONS

00.4100 BID FORM

ARTICLE #7. CONTRACT TIME

Revise per the enclosed sheet.

ITEM NO. 4 D100 - DEMOLITION PLAN - PHASE 03

Revise per the enclosed sheet.

Relocation of dumpster has been clarified

ITEM NO. 5 A106 - BUILDING SIGNAGE - PHASE 03 / ADD ALTERNATE 2

Revise per the enclosed sheet.

Signage options have been clarified and broken out into separate alternates.

ITEM NO. 6 A109 - ENLARGED PLANS AND INTERIOR ELEVATIONS

Revise per the enclosed sheet.



The pipe and drape has been clarified to be provided by the contractor and included in the base bid.

- ITEM NO. 7 PRIVACY WALL - BACK CANOPY ADDITION - PHASE 03**
Clarification: The metal wall panel will be on both sides of the Privacy wall.
Refer to addenda #2
- ITEM NO. 8 A107 & S200,S300 - DUMPSTER ENCLOSURE APRON**
Revise per the enclosed sheets.
Apron size has been adjusted and structural drawings have been revised. The dumpster enclosure wall section has been revised.
- ITEM NO. 9 P003 - PLUMBING LEGEND, SCHEDULE AND DETAILS**
Revise per the enclosed sheet.
The plumbing fixture schedule has been clarified and revised to match plans.
- ITEM NO. 10 REVISED - SPECIFICATIONS
SHEET R309 SPECIFICATIONS
12.3600 COUNTERTOPS**
Revise per the enclosed sheet.
Countertops and Casework have been added to the specifications.
- ITEM NO. 11 D101 - DEMOLITION PLANS - PHASE 03**
Revise per the enclosed sheet.
Add alternates have been clarified
- ITEM NO. 12 A102 - FLOOR PLAN ADDITION - PHASE 03**
Revise per the enclosed sheet.
Add alternates have been clarified
- ITEM NO. 13 A103 - REFLECTED CEILING PLAN - PHASE 03**
Revise per the enclosed sheet.
Ceiling access panel has been added
- ITEM NO. 14 R100 - PROJECT INFO**
Revise per the enclosed sheet.
Revised drawing index
- ITEM NO. 15 R309 - SPECIFICATIONS**
ADD sheet per the enclosed.
Additional specifications have been added
- ITEM NO. 16 R309, R308, R305, R304 - SPECIFICATIONS**
REVISE per the enclosed sheets.
Additional specifications have been added
- ITEM NO. 17 A102 - FIRE EXTINGUISHER LOCATION**



REVISE per the enclosed sheet.

Fire extinguisher location has been clarified

ITEM NO. 18 A102 & 106 - PLATE SIGNAGE

REVISE per the enclosed sheets.

Additional specifications have been added

ITEM NO. 19 CLARIFICATION - CONVENIENCE SPECIFICATION SET

A 8.5" X 11" specification set has been provided for convenience only. Refers to specifications on drawing sheets R300 - R309.

NO MORE ITEMS

Encl: P003, S200, S300, R100, R300, R302, R304, R305, R308, R309, D100, D101, A102, A103, A106, A107, A108, A109, BID FORM

Cc: All document holders

SECTION 00.4100 - BID FORM**THE PROJECT AND THE PARTIES**

1. TO:
 - A. Owner
 1. City of Brandon, Mississippi
 2. 1000 Municipal Drive, Brandon, MS 39042
2. FOR:
 - A. Brandon Big Room Renovations (Architect's Proj # 24-040.2) (Owner's Bid Number 2025-14)
3. DATE: _____ (BIDDER TO ENTER DATE)
4. SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)
 - A. Bidder's Full Name _____
 1. Address _____
 2. City, State, Zip _____
5. OFFER
 - A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by WBA Architecture, PLLC. for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
 - B. _____ dollars (\$ _____), in
lawful money of the United States of America.
 - C. We have included the required security deposit as required by the Instruction to Bidders.
 - D. We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.
 - E. All applicable federal taxes are included and State of Mississippi taxes are included in the Bid Sum.
 - F. All Cash and Contingency Allowances described in Section 01.2100 - Allowances are included in the Bid Sum.
 - G. ALTERNATES:
 1. ALTERNATE #1 (ADD or DEDUCT): \$ _____
a. (amount in words) _____
 2. ALTERNATE #2A (ADD or DEDUCT): \$ _____
a. (amount in words) _____
 3. ALTERNATE #2B (ADD or DEDUCT): \$ _____
a. (amount in words) _____
 4. ALTERNATE #3 (ADD or DEDUCT): \$ _____
a. (amount in words) _____
6. ACCEPTANCE
 - A. This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.
 - B. If this bid is accepted by Owner within the time period stated above, we will:
 1. Execute the Agreement within seven days of receipt of Notice of Award.
 2. Furnish the required bonds within seven days of receipt of Notice of Award.
 3. Commence work within seven days after written Notice to Proceed of this bid.
 - C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.

- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

7. CONTRACT TIME

- A. If this Bid is accepted, we will:
B. Complete the Work in 105 calendar days from Notice to Proceed.

8. ADDENDA

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
1. Addendum # _____ Dated _____.
 2. Addendum # _____ Dated _____.
 3. Addendum # _____ Dated _____.
 4. Addendum # _____ Dated _____.
 5. Addendum # _____ Dated _____.

9. BID FORM SIGNATURE(S)

- A. The Corporate Seal of
B. _____
C. (Bidder - print the full name of your firm)
D. was hereunto affixed in the presence of:
E. _____
F. (Authorized signing officer, Title)
G. (Seal)
H. _____
I. (Authorized signing officer, Title)

10. IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.

END OF SECTION 00.4100

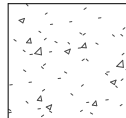
ABBREVIATIO

NS BESTOS CONTAINING MATERIALS
AC.T. ACOUSTICAL CEILING TILE (see also L.A.T.)
A.F.F. ABOVE FINISHED FLOOR (see also R.T.U.)
A.H.U. AIR HANDLING UNIT (see also R.T.U.)
ALT. ALTERNATE
ALUM. ALUMINUM
APPROX. APPROXIMATE
ASBY. ASSEMBLY
BT. BOTTOM OF
BLDG. BUILDING
BLKG. BLOCKING
C.F.M.F. COULD FORMED METAL FRAMING
C.I. CONTINUOUS INSULATION
CJ. CONTROL JOINT
CL. CENTERLINE
CLG. CEILING
CLR. CLEAR
COL. COLUMN
CONC. CONCRETE
CONSTR. CONSTRUCTION
CONT. CONTINUOUS
COORD. COORDINATE
DEMO. DEMOLITION
DTL. DETAIL
DIA. DIAMETER
DIM. DIMENSION
DISP. DISPENSER
DN. DOWN
D.P. DAMPROOFING
D.S. DOWNSPOUT
DWGS. DRAWINGS
EA. EACH
E.I.F.S. EXTERIOR INSULATION & FINISH SYSTEM
EJ. EXPANSION JOINT
ELEC. ELECTRICAL
EL. ELEVATION
ELEV. ELEVATOR
ENCL. ENCLOSURE
EQ. EQUAL
EQUIP. EQUIPMENT
EWC. ELECTRIC WATER COOLER
EXH. EXHAUST
EXIST. EXISTING
EXTER. EXTERIOR
F. FACE OF
F.A.G.P. FIRE ALARM CONTROL PANEL
FD. FLOOR DRAIN
F.F.C. FIRE EXTINGUISHER (CABINET)
F.F.E. FINISH FLOOR ELEVATION
FIN. FINISH
FIX. FIXTURE
FLR. FLOOR
FURR. FURRING
GA. GAUGE
GALV. GALVANIZED
G.C. GENERAL CONTRACTOR
GLAZ. GLAZING GLASS
GYP. BD. GYPSUM BOARD
HWR. HARDWARE
HT. HEIGHT
H.M. HOLLOW METAL
HORZ. HORIZONTAL
HR. HOUR
INSUL. INSULATION
INTER. INTERIOR
JAN. JANITOR
JT. JOINT
L.A.T. LAY-IN ACOUSTICAL TILE
LAV. LAVATORY
L.B.P. LEAD BASED PAINT
MAS. MASONRY
MAX. MAXIMUM
MECH. MECHANICAL
MANUF. MANUFACTURER
MIN. MINIMUM
MISC. MISCELLANEOUS
M.O. MASONRY OPENING
MTD. MOUNTED
MTL. METAL
N/A. NOT APPLICABLE
N.I.C. NOT IN CONTRACT
N.T.S. NOT TO SCALE
NOM. NOMINAL
O.C. ON CENTER
O.D. OUTSIDE DIAMETER
OPS. OPENING
OPP. OPPOSITE
ORIG. ORIGINAL
PLAST. PLASTER
PREFAB. PRE-FABRICATED
PREFIN. PRE-FINISHED
PTD. PRINTED
PART. PARTITION
PLYWD. PLYWOOD
RB. RUBBER BASE
R.C. RESILIENT CHANNEL
R.D. ROOF DRAIN
REF. REFERENCE
REINF. REINFORCE(MENT)
REQ. REQUIRED
RESIL. RESILIENT
RM. ROOM
R.O. ROUGH OPENING
R.T.U. ROOF TOP UNIT
SCHED. SCHEDULE
SECT. SECTION
SHWR. SHOWER
SM. SIMILAR
SPEC. SPECIFICATION / SPECIFIED
SQ. SQUARE
SQFT. SQUARE FEET
S.STL. STAINLESS STEEL
S.T.C. SOUND TRANSMISSION COEFFICIENT
STD. STANDARD
STL. STEEL
STRUCT. STRUCTURAL
SUPP. SUSPENDED
SYM. SYMMETRICAL
SYS. SYSTEM
T.J. TOP OF
TEMP. TEMPORARY
TAG. TONGUE & GROOVE
THK. THICKNESS
TYP. TYPICAL
U.O.N. UNLESS OTHERWISE NOTED
VERT. VERTICAL
V.I.F. VERIFY IN FIELD
W. WITH
W.C. WATER CLOSET
WD. WOOD
WDW. WINDOW
W/O. WITHOUT
W.B. WEATHER BARRIER
W.P. WATERPROOFING

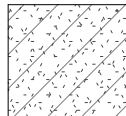
SYMBOLS



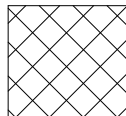
BRICK



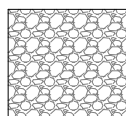
CONCRETE



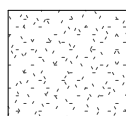
STONE
CAST STONE



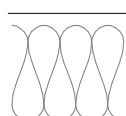
CONCRETE MASONRY
UNITS



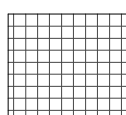
GRAVEL



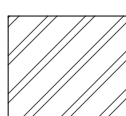
GYPSUM BOARD
GROUT



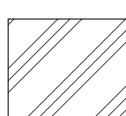
INSULATION
(BATT)



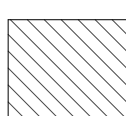
INSULATION
(RIGID)



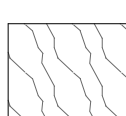
STEEL



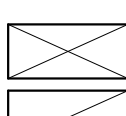
ALUMINUM



SHEATHING



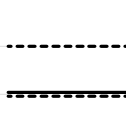
WOOD
(SOLID WOOD)



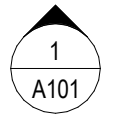
CONTINUOUS BLKG.



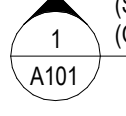
DISCONTINUOUS BLKG.



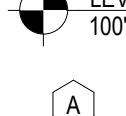
WATERPROOFING



DAMPPROOFING



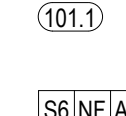
WEATHER BARRIER



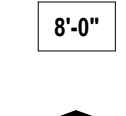
VAPOR BARRIER



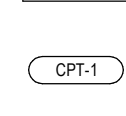
ROOF MEMBRANE



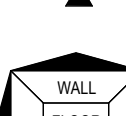
ELEVATION TAG



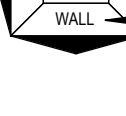
INTER ELEVATION TAG



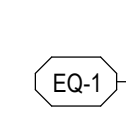
SECTION TAG



LEVEL LINE TAG



WINDOW TAG



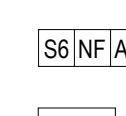
STOREFRONT TAG



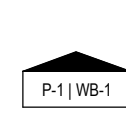
ROOM TAG



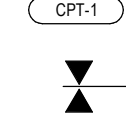
DOOR TAG



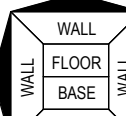
PARTITION TAG



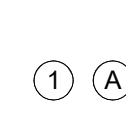
CEILING HEIGHT TAG



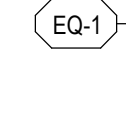
WALL & BASE
FINISH TAG



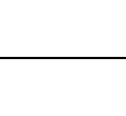
FLOOR FINISH TAG



FLOOR TRANSITION TAG



FULL ROOM FINISH TAG
MULTIPLE FINISHES OCCUR AT
SELECT LOCATIONS. REFER TO
ENLARGED PLANS OR INTERIOR
ELEVATIONS FOR DETAILED INFO.



KEYNOTES
(AS APPLICABLE PER SHEET)

SPECIALTY ITEM TAG
CNC CASEWORK
EQ. EQUIPMENT
FR. FURNITURE
FX. FIXTURES
(ETC.)

GENERAL NOTES

1. NOTES APPEAR ON VARIOUS DRAWINGS FOR VARIOUS DISCIPLINES FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.

2. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR OTHER APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.

3. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.

4. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.

5. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.

6. OPENINGS IN RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH PENETRATION SEALANT SYSTEMS MEETING OR EXCEEDING THE REQUIRED FIRE RESISTIVE RATINGS.

7. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.

8. PROVIDE CONTINUOUS PERIMETER FIRE SAFING BETWEEN FLOORS AND COORDINATE THE INSTALLATION WITH THE EXTERIOR WALL. FIRE RATING OF SAFING SHALL MATCH FIRE RATING OF FLOOR CONSTRUCTION.

9. DO NOT SCALE THE DRAWINGS.

10. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS.

11. PROVIDE STIFFENERS, BRACING, BACKING PLATES AND BLOCKING REQUIRED FOR SECURE INSTALLATION OF TOILET PARTITIONS, DOORS AND DOOR HARDWARE INCLUDING WALL-MOUNTED DOOR STOPS, HANDRAILS, WALL-MOUNTED SHELVES, OPERABLE PARTITIONS, MISCELLANEOUS EQUIPMENT, AND SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.

12. COORDINATE ALL BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.

13. LOCATE ACCESS PANELS AS INDICATED ON DRAWINGS. FOR ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, LOCATED IN ACCORDANCE WITH APPLICABLE CODES. SUBMIT PROPOSED LOCATIONS TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.

PARTITION LEGEND

PARTITION STRUCTURE	PARTITION ASSEMBLY	
	FIRE RATED CRITERIA	
CORE MAT.	NOM. WIDTH	
C = CAST IN PLACE CONCRETE (COORD. w/STRUCT.)	6" = 6" C.I.P.	
M = CONCRETE MASONRY UNITS (COORD. w/STRUCT.)	4" = 4" CMU	
	6" = 6" CMU	
	8" = 8" CMU	
S = STEEL STUD FRAMING	1 = 1 1/2" STUD	5/8" GYP. BD. ONE SIDE
	2 = 2 1/2" STUD	
	4 = 3 5/8" STUD	5/8" GYP. BD. EA. SIDE U.O.N.
	6 = 6" STUD	
W = WOOD STUD FRAMING	0 = 1/2" FURRING	5/8" GYP. BD. ONE SIDE
	4 = 3 1/2" STUD	5/8" GYP. BD. EA. SIDE U.O.N.
	6 = 5 1/2" STUD	5/8" GYP. BD. EA. SIDE U.O.N.
X = SHAFTWALL CONSTRUCTION	2 = 2 1/2" C-H STUD	
	4 = 4" C-H STUD	
	6 = 6" C-H STUD	
		SEAL SEAMS, PENETRATIONS, & TRANSITIONS PER IBC & UL ASSEMBLY.

PROJECT

TEAM

OWNER
CITY OF BRANDON, MISSISSIPPI
1000 MUNICIPAL DRIVE
BRANDON, MS 39042
601.825.5021 (P)
BUTCH LEE, MAYOR

ARCHITECT
WBA ARCHITECTURE, PLLC.
2727 OLD CANTON RD., STE. 200
JACKSON, MS 39216
601.321.9107 (P)
(WADE THOMPSON), AIA
wthompson@wbaarchitecture.com

STRUCTURAL
MCQUEEN STRUCTURAL
ENGINEERING, PLLC
965 HWY 51, SUITE 3
601.898.1295 (P)
JASON MCQUEEN, P.E.
jason@mcqueense.com

ELECTRICAL
THE POWER SOURCE
945 MADISON AVE
MADISON, MS 39110
601.605.4520 (P)
CHRIS GREEN
cgreen@thepowersource.us

MECHANICAL
SCOTT C WOODS & ASSOC.
112 LONE WOLF DR
MADISON, MS 39110
601.612.0527 (P)
SCOTT WOODS
swoods@scoweng.com

DRAWING INDEX

INDEX OF DRAWINGS			
SHEET NUMBER	SHEET NAME	7/17/26 CDS	REVISION 01 8/13/26

01 - REFERENCE			
R000	COVER SHEET	X	
R100	PROJECT INFO	X	X
R200	LIFE SAFETY COMPLIANCE	X	
R210	ACCESSIBILITY COMPLIANCE	X	
R300	SPECIFICATIONS - PHASE 03	X	X
R301	SPECIFICATIONS - PHASE 03	X	X
R302	SPECIFICATIONS - PHASE 03	X	X
R303	SPECIFICATIONS - PHASE 03	X	X
R304	SPECIFICATIONS - PHASE 03	X	X
R305	SPECIFICATIONS - PHASE 03	X	X
R306	SPECIFICATIONS - PHASE 03	X	X
R307	SPECIFICATIONS - PHASE 03	X	X
R308	SPECIFICATIONS - PHASE 03	X	X
R309	SPECIFICATIONS - PHASE 03	X	X

04 - DEMOLITION			
D100	DEMOLITION PLANS - PHASE 03	X	X
D101	DEMOLITION PLANS - PHASE 03	X	X

05 - ARCHITECTURE			
A101	EXISTING FLOOR PLAN - PHASE 03	X	
A102	FLOOR PLAN ADDITION - PHASE 03	X	X
A103	REFLECTED CEILING PLAN - PHASE 03	X	X
A104	BACK CANOPY ADDITION - PHASE 03	X	
A104.1	BACK CANOPY ADDITION SITE DETAILS - PHASE 03	X	
A105	FRONT DROP-OFF CANOPY - PH. 03 ADD ALTERNATE 01	X	
A106	BUILDING SIGNAGE - PH. 03 / ADD ALTERNATE 2A & 2B	X	X
A107	DUMPSTER ENCLOSURE PH. 03 / ADD ALTERNATE 03	X	X
A108	DOOR SCHEDULE, FINISHES & DETAILS- PHASE 03	X	X
A109	ENLARGED PLANS & INTERIOR ELEVATIONS	X	X

06 - STRUCTURAL			
S100	STRUCTURAL NOTES	X	
S101.	QUALITY ASSURANCE	X	
S102.	SPECIFICATIONS	X	
S103.	SPECIFICATIONS	X	
S104	SPECIFICATIONS	X	
S200	FOUNDATION PLAN	X	X
S201.	FRAMING PLAN	X	
S300.	DETAILS	X	X
S301.	DETAILS	X	

07 - MECHANICAL			
M001	FLOOR PLAN HVAC	X	
M002.	DETAILS/ SCHEDULES HVAC	X	

09 - PLUMBING			
P001	FLOOR PLAN WASTE AND VENT	X	
P002	FLOOR PLAN DOMESTIC WATER	X	
P003.	PLUMBING LEGEND, SCHEDULE AND DETAILS	X	X

10 - ELECTRICAL			
E000	SPECIFICATIONS	X	
E001.	SPECIFICATIONS	X	
E002.	SPECIFICATIONS	X	
E003.	ELECTRICAL LEGEND & LIGHTING SCHEDULE	X	
E100.	OVERALL LIGHTING PLAN	X	
E101	LIGHTING PLANS	X	
E200.	OVERALL POWER PLAN	X	
E201.	ENLARGED POWER PLAN	X	
ED100.	OVERALL DEMO PLAN	X	
ED101.	ENLARGED DEMO PLANS	X	

VICINITY MAP



BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON

1000 Municipal Dr.
Brandon, MS 39042



7/17/2026

100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2

REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26





BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON
1000 Municipal Dr,
Brandon, MS 39042

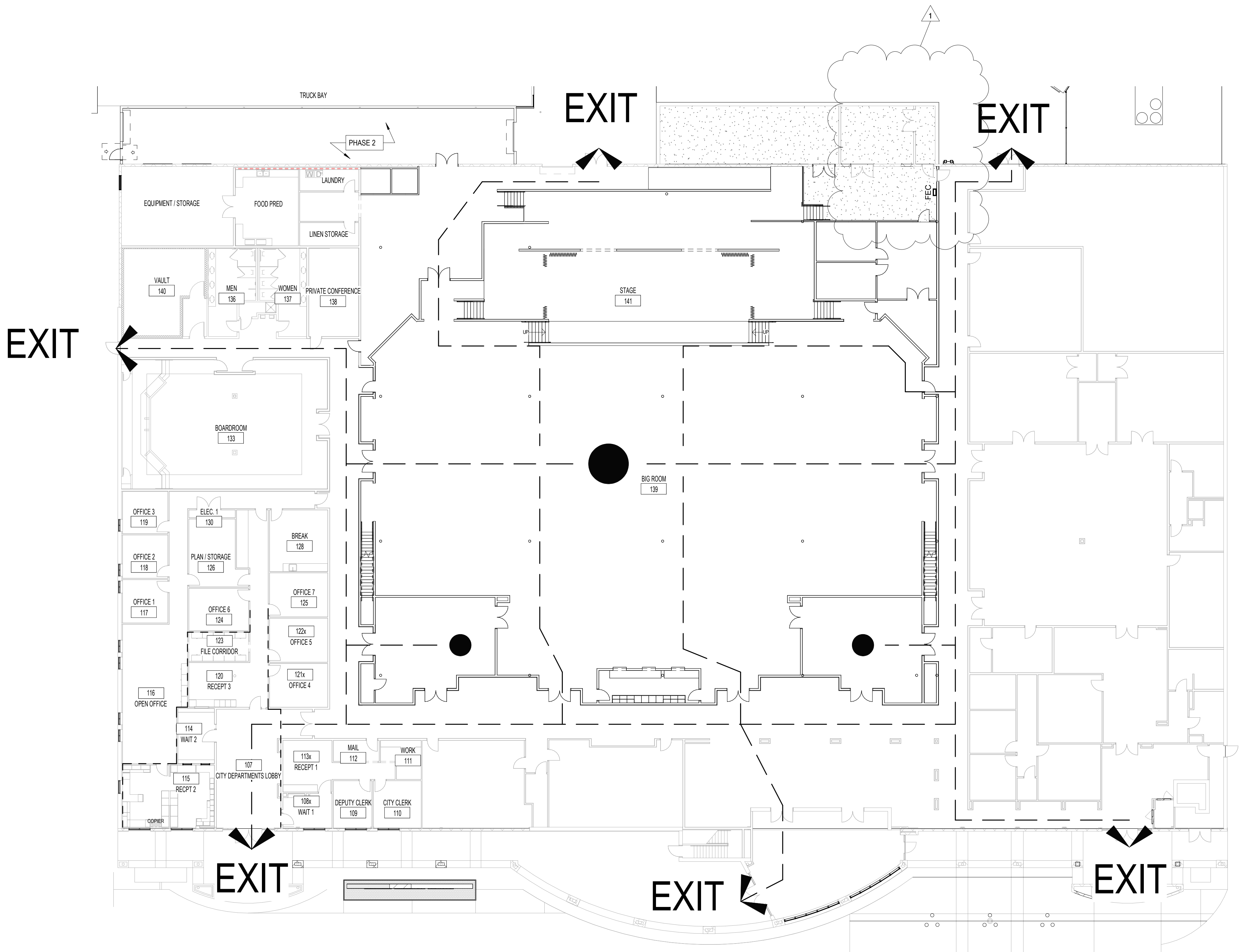
GENERAL INFO

PROJECT CONTACTS

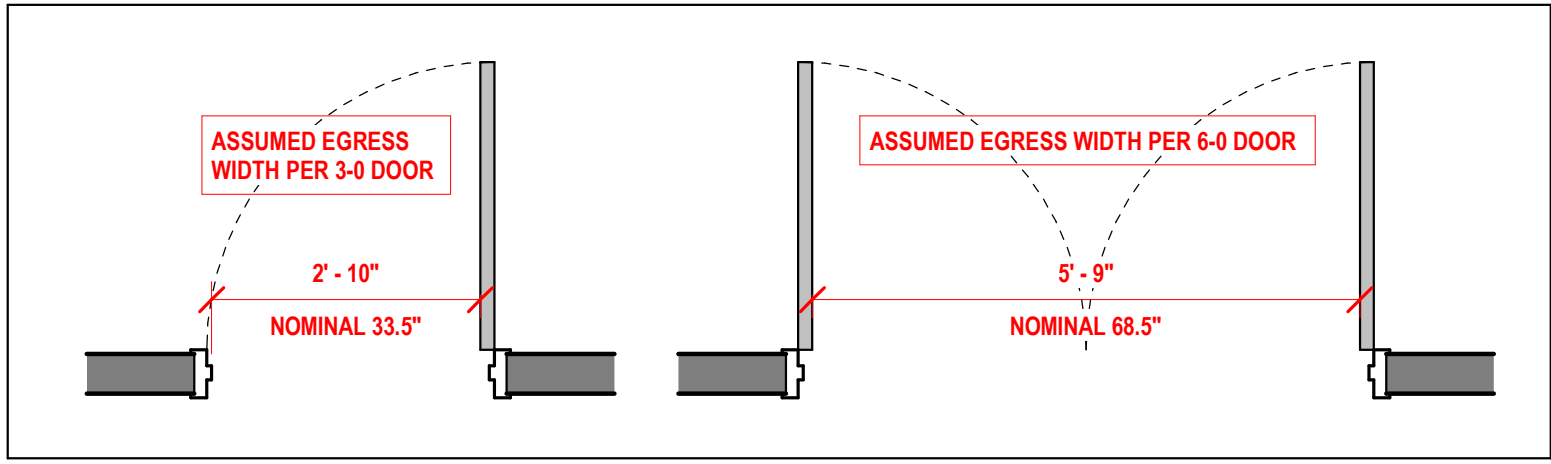
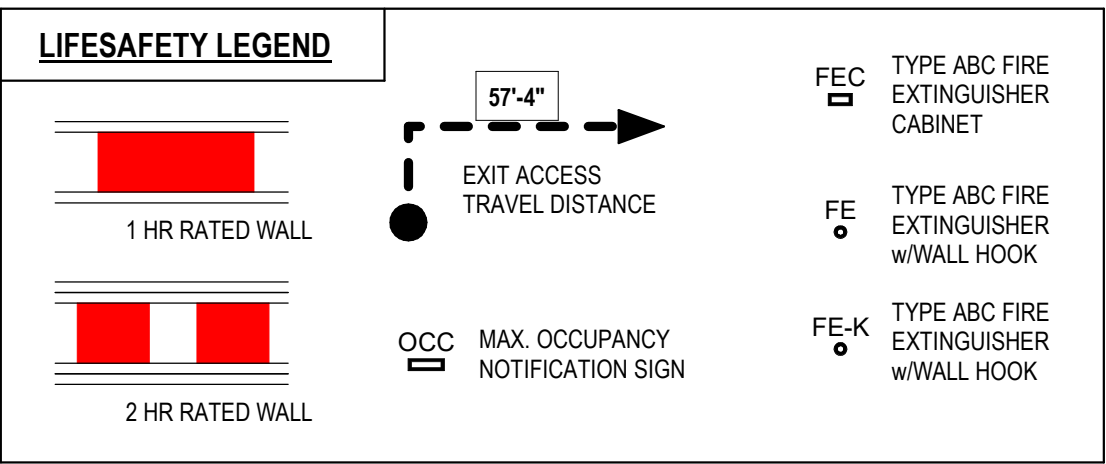
OWNER	CITY OF BRANDON, MISSISSIPPI	ARCHITECT	WIER BOERNER ALLIN, PLLC	
CONTACT	BUTCH LEE, MAYOR	CONTACT	JAMIE WEIR	WADE THOMPSON
PHONE		PHONE	601.321.9107	601.321.9107
ADDRESS	1000 MUNICIPAL DRIVE BRANDON, MS 39042	ADDRESS	2727 OLD CANTON ROAD, SUITE 200 JACKSON MS 39216	2727 OLD CANTON ROAD, SUITE 200 JACKSON MS 39216
EMAIL		EMAIL	Jwier@wbaarchitecture.com	Wthompson@wbaarchitecture.com

MEANS OF EGRESS

OCCUPANT LOAD		EGRESS SIZING								
SEE LIFE SAFETY PLANS FOR DETAILED OCCUPANCY LOAD INFORMATION		CORRIDOR WIDTH 0.2" OR 0.15" PER OCC.			EGRESS DOOR WIDTH 0.2" OR 0.15" PER OCC.			STAIR WIDTH 0.3" OR 0.2" PER OCC.		
		MIN.	CALC.	ACTUAL	MIN.	CALC.	ACTUAL	MIN.	CALC.	ACTUAL
FIRST FLOOR	1,892	44"			32"			44"		
SECOND FLOOR	0	44"			32"			44"		
THIRD FLOOR	0	44"			32"			44"		
TOTAL	1,892									
NUMBER OF EXITS			EGRESS PATH							
			EXIT ACCESS TRAVEL DISTANCE TABLE 1017.2		COMMON PATH TRAVEL DISTANCE TABLE 1006.2.1					
FIRST FLOOR	4	6	250'-0" / 300'-0" MAX.		75'-0" MAX.					
SECOND FLOOR	0	0	CORRIDOR FIRE-RESIST. RATING TABLE 1020.1		DEAD-END CORRIDOR LIMITS SECTION 1020.4					
THIRD FLOOR	0	0	X HR. F.R.R. MIN.		20'-0" MAX.					
TOTAL	4	6								



LIFE SAFETY PLANS



7/17/2026

100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2

REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26



DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

SECTION 00.1113 - ADVERTISEMENT FOR BIDS

- FROM:
- THE OWNER (HEREINAFTER REFERRED TO AS OWNER):
 - The City of Brandon, Mississippi
 - AND THE ARCHITECT (HEREINAFTER REFERRED TO AS ARCHITECT):
 - Wier Boerner Allin Architecture
 - TO: POTENTIAL BIDDERS
 - Your firm is invited to submit an offer under seal to Owner for construction of a renovation located at 1000 Municipal Drive, Brandon, MS 39042 before 2 pm local standard time on the 28th day of August, 2026, for:
 - Project Description: Brandon Civic Center (Big Room) Renovations Phase 3. Architect's Project Number 24-040.1. Owner's Bid Number 2026-12..
 - Contract Documents may be obtained at Jackson Blueprint & Supply, Inc. 699 Monroe Street Jackson, MS 39202 (601) 353-5803 www.planroom.jaxblue.com. Bidders are responsible for all costs associated with downloading digital plans and/or printing costs (if requested).
 - Refer to other bidding requirements described in Document 00.2113 - Instructions to Bidders and Document 00.3100 - Available Project Information.
 - Submit your offer on the Bid Form provided. Include Bid Number 2026-12 marked on the lower left corner of the envelope. Bidders may supplement this form as appropriate.
 - The City of Brandon also offers electronic bidding submissions. All documents may be downloaded from Central Bidding at www.centralbidding.com. For any questions regarding the electronic process, please call Central Bidding at (225)610-4814.
 - Your offer will be required to be submitted under a condition of irrevocability for a period of 60 days after submission.
 - The Owner reserves the right to accept or reject any or all offers.
 - SIGNATURE
 - For: The City of Brandon, Mississippi
 - By: Butch Lee, Mayor
 - Signed: _____
 - (Authorized signing officer)
 - DATES OF PUBLICATION:
 - 1st advertisement: July 29, 2025
 - 2nd advertisement: August 5, 2025
- END OF SECTION 00.1113

SECTION 00.2113 - INSTRUCTIONS TO BIDDERS

- SUMMARY
- DOCUMENT INCLUDES
 - Invitation
 - Bid Documents and Contract Documents
 - Site Assessment
 - Qualifications
 - Bid Submission
 - Bid Enclosures/Requirements
 - Offer Acceptance/Rejection
 - RELATED DOCUMENTS
 - Document 00.1113 - Advertisement for Bids.
 - Document 00.4100 - Bid Form.
 - Document 00.7300 - Supplementary Conditions.
- INVITATION
- BID SUBMISSION
 - Bids signed and under seal, executed, and dated will be received at the office of The City of Brandon, Mississippi - Office of the Circuit Clerk at or before 2 p.m. local standard time on the 7th day of January, 2026.
 - Offers submitted after the above time shall be returned to the bidder unopened.
 - Offers will be opened publicly immediately after the time for receipt of bids.
 - Amendments to the submitted offer will be permitted if received in writing prior to bid closing and if made on the Bid Proposal Form and included in the sealed envelope.
 - Telegraphic Bid Modification and Modifications on the sealed envelope face will not be considered.
 - INTENT
 - The intent of this Bid request is to obtain an offer to perform work to complete the Project as described in the Contract Documents for a Stipulated Sum contract, in accordance with the Contract Documents.
 - WORK IDENTIFIED IN THE CONTRACT DOCUMENTS
 - Work of this proposed Contract comprises building construction, including general construction Work.
 - CONTRACT TIME
 - Perform the Work within the time stated on the Bid Form.
 - The bidder, in submitting an offer, accepts the Contract Time period stated for performing the Work. The completion date in the Agreement shall be the Contract Time added to the commencement date.

- BID DOCUMENTS AND CONTRACT DOCUMENTS
- DEFINITIONS
 - Bid Documents: Contract Documents supplemented with Invitation To Bid, Instructions to Bidders, Information Available to Bidders, Bid Form Supplements To Bid Forms and Appendices identified.
 - Contract Documents: Defined in AIA A201 Article 1 including issued Addenda.
 - Bid, Offer, or Bidding: Act of submitting an offer under seal.
 - Bid Amount: Monetary sum identified by the Bidder in the Bid Form.
 - CONTRACT DOCUMENTS IDENTIFICATION
 - AVAILABILITY
 - Contract Documents may be obtained at Jackson Blueprint & Supply, Inc. 699 Monroe Street Jackson, MS 39202 (601) 353-5803 www.planroom.jaxblue.com Bidders are responsible for all costs associated with downloading digital plans and/or printing costs (if requested).
 - Bid Documents are made available only for the purpose of obtaining offers for this project. Their use does not grant a license for other purposes.
 - Bid documents will be issued in complete sets only. No partial printings of specifications sections or trade specific drawings will be issued.
 - EXAMINATION
 - Upon receipt of Bid Documents verify that documents are complete. Notify Architect should the documents be incomplete.
 - Immediately notify Architect upon finding discrepancies or omissions in the Bid Documents.
 - INQUIRIES/ADDENDA
 - Direct questions to Dylan Baker, email; dbaker@wbaarchitecture.com.
 - Addenda may be issued during the bidding period. All Addenda become part of Contract Documents. Include resultant costs in the Bid Amount.
 - Verbal answers are not binding on any party.
 - Clarifications requested by bidders must be in writing not less than 7 days before date set for receipt of bids. The reply will be in the form of an Addendum, a copy of which will be forwarded to known recipients and _____.
 - PRODUCT/ASSEMBLY/SYSTEM SUBSTITUTIONS
 - Substitutions will NOT be considered prior to submission of bids. Substitute products will only be considered as part of the submittal process of the awarded bidder.
 - In considering substitutions to products specified, bidders shall include in their bid all changes required in the Work and changes to Contract Time and Contract Sum to accommodate such substitutions. A later claim by the bidder for an addition to the Contract Time or Contract Sum because of changes in work necessitated by use of substitutions shall not be considered.
 - The submission shall provide sufficient information to determine acceptability of such products.
 - Provide complete information on required revisions to other work to accommodate each proposed substitution.
 - Provide products as specified unless substitutions are submitted in this manner and accepted.
 - See Section 01.6000 - Product Requirements for additional requirements.

SITE ASSESSMENT

- SITE EXAMINATION
 - Examine the project site before submitting a bid.
- PREBID CONFERENCE
 - A bidders conference has been scheduled for 2 p.m. on the 16th day of December, 2025 at the location of the Project. 1000 Municipal Drive, Brandon, MS..
 - All general contract bidders and suppliers are invited.
 - Representatives of Architect will be in attendance.
 - Summarized minutes of this meeting will be circulated to attendees. These minutes will form part of Contract Documents.

QUALIFICATIONS

- CERTIFICATE OF RESPONSIBILITY NUMBER
 - Each Contractor submitting a bid exceeding \$50,000.00 must show on his bid, and on the face of the envelope containing the bid, his Certificate of Responsibility Number, as required by General Laws of Mississippi 1985, and in accordance with Sections 25 43 1 through 25 43 19, Mississippi Code of 1972. If the bid does not exceed the above stated amounts, a notation so stating must appear on the face of the envelope.
- BID SUBMISSION
 - SUBMISSION PROCEDURE
 - Bidders shall be solely responsible for the delivery of their bids in the manner and time prescribed.
 - Submit one copy of the executed offer on the Bid Forms provided, signed and sealed with the required security in a closed opaque envelope, clearly identified with bidder's name, project name and Owner's name on the outside. Include Bid Number 2025-14 marked on the lower left corner of the envelope.
 - BID INELIGIBILITY
 - Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may at the discretion of the Owner, be declared unacceptable.
 - Bid Forms, Appendices, and enclosures that are improperly prepared may, at the discretion of Owner, be declared unacceptable.
 - Failure to provide security deposit, bonding or insurance requirements may, at the discretion of Owner, be waived.
- BID ENCLOSURES/REQUIREMENTS
 - FORM
 - Form: Make all Proposals on forms provided and fill all applicable blank spaces without interlineations, alteration or erasure and must not contain recaptulation of the work to be done. No oral, telegraphic, or telephone proposals will be considered. Any addenda issued during the bidding shall be noted on the Proposal Form.
 - SECURITY DEPOSIT
 - Bids shall be accompanied by a security deposit as follows:
 - Bid Bond or certified check of a sum no less than 5 percent of the Bid Amount on AIA A310 Bid Bond Form.
 - Endorse the Bid Bond in the name of the Owner as obligee, signed and sealed by the principal (Contractor) and surety.
 - The security deposit will be returned after delivery to the Owner of the required Performance and Payment Bond(s) by the accepted bidder.
 - Include the cost of bid security in the Bid Amount.
 - If no contract is awarded, all security deposits will be returned.
 - CONSENT OF SURETY
 - Submit with the Bid: _____
 - PERFORMANCE ASSURANCE
 - Accepted Bidder: Provide a Performance bond as described in 00.7300 - Supplementary Conditions.
 - Include the cost of performance assurance bonds in the Bid Amount.
 - BID FORM REQUIREMENTS
 - Complete all requested information in the Bid Form and Appendices.
 - BID MODIFICATIONS
 - Telegraphic Bid Modification will not be allowed.
- OFFER ACCEPTANCE/REJECTION
 - DURATION OF OFFER
 - Bids shall remain open to acceptance and shall be irrevocable for a period of sixty (60) days after the bid closing date.
 - ACCEPTANCE OF OFFER
 - Owner reserves the right to accept or reject any or all offers.
 - Contract will be awarded on the basis of the best bid received based on Owner's and Architect's evaluation of the bid, prior performance of bidder and it's proposed subcontractor and suppliers. The Owner reserves the right to award based on the Owner's evaluation of the bid. The Owner reserves the right to waive irregularities and to reject any and/or all bids.
 - The Owner shall have the right to accept alternates in any order or combination and to determine the successful Bidder on the basis of the alternates accepted.
 - SECURITY FOR FAITHFUL PERFORMANCE
 - Simultaneously with his delivery of the Executed Contract, the Contractor shall furnish a surety bond as security for faithful performance of this Contract and for the payment of all persons performing labor on the project under this Contract and furnishing materials in connection with this Contract. The surety on such bond or bonds shall be a duly authorized surety company, satisfactory to the Owner.
 - LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT
 - The successful Bidder, upon his failure or refusal to execute and deliver the contract, bond, and insurance required within ten (10) days after he has received notice of acceptance of his bid, shall forfeit to the Owner as liquidated damages, the security deposited with his bid.

- END OF SECTION 00.2113
- SECTION 00.4100 - BID FORM
- THE PROJECT AND THE PARTIES
- TO:
 - Owner
 - City of Brandon, Mississippi
 - 1000 Municipal Drive, Brandon, MS 39042
 - FOR:
 - Brandon Big Room Renovations (Architect's Proj # 24-040.2) (Owner's Bid Number 2025-14)
 - DATE: _____ (BIDDER TO ENTER DATE)
 - SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)
 - Bidder's Full Name _____
 - Address _____
 - City, State, Zip _____
 - OFFER
 - Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by WBA Architecture, PLLC. for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of: _____ dollars (\$ _____), in lawful money of the United States of America.
 - We have included the required security deposit as required by the Instruction to Bidders.
 - We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.
 - All applicable federal taxes are included and State of Mississippi taxes are included in the Bid Sum.
 - All Cash and Contingency Allowances described in Section 01.2100 - Allowances are included in the Bid Sum.
 - ALTERNATES:
 - ALTERNATE #1 (ADD or DEDUCT): \$ _____
 - (amount in words) _____
 - ALTERNATE #2A (ADD or DEDUCT): \$ _____
 - (amount in words) _____
 - ALTERNATE #2B (ADD or DEDUCT): \$ _____
 - (amount in words) _____
 - ALTERNATE #3 (ADD or DEDUCT): \$ _____
 - (amount in words) _____
 - ACCEPTANCE
 - This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.
 - If this bid is accepted by Owner within the time period stated above, we will:
 - Execute the Agreement within seven days of receipt of Notice of Award.
 - Furnish the required bonds within seven days of receipt of Notice of Award.
 - Commence work within seven days after written Notice to Proceed of this bid.
 - If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
 - In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.
 - CONTRACT TIME
 - If this Bid is accepted, we will:
 - Complete the Work in 105 calendar days from Notice to Proceed.
 - ADDENDA
 - The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
 - Addendum # _____ Dated _____
 - Addendum # _____ Dated _____
 - Addendum # _____ Dated _____
 - Addendum # _____ Dated _____
 - Addendum # _____ Dated _____

- BID FORM SIGNATURE(S)
 - The Corporate Seal of _____
 - _____
 - (Bidder - print the full name of your firm)
 - was hereunto affixed in the presence of: _____
 - _____
 - (Authorized signing officer, Title)
 - (Seal)
 - _____
 - (Authorized signing officer, Title)
 - IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.
- END OF SECTION 00.4100

SECTION 00.5000 - CONTRACTING FORMS AND SUPPLEMENTS

- PART 1 GENERAL
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A VALID LICENSE TO USE ALL COPYRIGHTED DOCUMENTS SPECIFIED BUT NOT INCLUDED IN THE PROJECT MANUAL.
 - AGREEMENT AND CONDITIONS OF THE CONTRACT
 - See Section 00.7200 - General Conditions for the General Conditions.
 - See Section 00.7300 - Supplementary Conditions for the Supplementary Conditions.
 - The Agreement is based on AIA A101.
 - The General Conditions are based on AIA A201.
 - FORMS
 - Use the following forms for the specified purposes unless otherwise indicated elsewhere in Contract Documents.
 - Bond Forms:
 - Performance and Payment Bond Form: AIA A312.
 - Post-Award Certificates and Other Forms:
 - Certificate of Insurance Form: ACORD Certificate of Insurance 25.
 - Schedule of Values Form: AIA G703.
 - Application for Payment Forms: AIA G702 with AIA G703 (for Contractors).
 - Clarification and Modification Forms:
 - Construction Change Directive Form: AIA G714.
 - Change Order Form: AIA G701.
 - Closeout Forms:
 - Certificate of Substantial Completion Form: AIA G704.
 - Affidavit of Payment of Debts and Claims Form: _____.
 - Affidavit of Release of Liens Form: _____.
 - Consent of Surety to Final Payment Form: _____.
 - REFERENCE STANDARDS
 - AIA A101 - Standard Form of Agreement Between Owner and Contractor where the basis of Payment is a Stipulated Sum; 2007.
 - AIA A201 - General Conditions of the Contract for Construction; 2007.
 - AIA A312 - Performance Bond and Payment Bond; 2010.
 - AIA G701 - Change Order; 2001.
 - AIA G702 - Application and Certificate for Payment; 1992.
 - AIA G703 - Continuation Sheet; 1992.
 - AIA G704 - Certificate of Substantial Completion; 2000.
 - AIA G714 - Construction Change Directive; 2007.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 00.5000

SECTION 00.6000 - BONDS AND CERTIFICATES

- PART 1 - GENERAL
- PERFORMANCE AND PAYMENT BONDS
 - Performance and Payment Bonds shall be AIA Document A312 (two parts) Performance Bond and Labor and Material Payment Bond, December 1984, Third Printing March 1987 edition.
 - CERTIFICATES OF INSURANCE
 - See Section 00.7300 Supplemental Conditions for requirements.
- PART 2 PRODUCTS - NOT USED
- PART 3 EXECUTION - NOT USED
- END OF BONDS AND CERTIFICATES

SECTION 00.7200 - GENERAL CONDITIONS

- PART 1 - GENERAL
- FORM OF GENERAL CONDITIONS
 - Conditions of the Contract for Construction,"AIA Document A201, 2017 Edition, is a part of this Contract exactly as though fully-written and incorporated herein.
 - THE GENERAL CONDITIONS APPLICABLE TO THIS CONTRACT IS NOT ATTACHED FOLLOWING THIS PAGE.
 - All Contractors bidding this project are presumed to be familiar with this Document. Contractors may examine a copy of this Document in the Architect's office upon receipt of written request.
 - RELATED REQUIREMENTS
 - SECTION 00.7300 - Supplementary Conditions.
 - SECTION 01.4216 - Definitions.
 - SUPPLEMENTARY CONDITIONS
 - REFER TO DOCUMENT 00.7300 - Supplementary Conditions FOR AMENDMENTS TO THESE GENERAL CONDITIONS.
- END OF SECTION 00.7200

SECTION 00.8000 - SUPPLEMENTARY CONDITIONS

- PART 1 GENERAL
- DESCRIPTION
 - The following Supplementary Conditions modify the "General Conditions of the Contract for Construction," AIA Document A201, 2017. Where a portion of the General Conditions is modified or deleted by the Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect. In the event of a conflict between the General Conditions of the Contract for Construction and Section 00800, Section 00800 shall control even if the conflicting provision in the General Conditions of the Contract for Construction is not expressly revised or deleted by reference in Section 00800.
 - The General Conditions may also be supplemented or amplified elsewhere in the Contract Documents by provisions located in, but not necessarily limited to, Division 1 of the Specifications.
 - SUPPLEMENTS
 - ARTICLE 1 - GENERAL PROVISIONS
 - BASIC DEFINITIONS
 - THE CONTRACT DOCUMENTS:
 - Delete the last sentence in **Article 1.1.1** and insert the following:
 - The Contract Documents shall include the Instructions to Bidders, the plans, the specifications, including Divisions 0 through 16, all Addenda and modifications to the plans and/or specifications, the Agreement between Owner and Contractor, the performance and payment bonds, the notice to proceed and any executed change orders. Information and documentation pertaining to soil investigation data, laboratory investigations, soil borings and related information included herein are not part of the Contract Documents. In the event of a conflict between the provisions of Division 0 and any other section of the Contract Documents, such section(s) shall govern.
 - THE CONTRACT
 - Add the following to the end of **Article 1.1.2**:
 - Large scale drawings shall govern over small scale drawings where there are differences or conflicts between such drawings. Where the word "similar" appears on the plans, it shall not be interpreted to mean "identical" and shall require the Contractor to coordinate the actual conditions and dimensions of the location where the a-similar conditions are shown to occur.
 - MISCELLANEOUS DEFINITIONS

- Add the following **Article 1.1.9**:
 - The term "products" as used in these Supplementary Conditions includes materials, systems, and equipment.
- CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS
 - Add the following **Article 1.2.4**:
 - It is the intent of the Contract Documents that the Contractor shall properly execute and complete the Work described by the Contract Documents, and unless otherwise provided in the Contract, the Contractor shall provide all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services, whether temporary or permanent and whether or not incorporated in the Work, in full accordance with the Contract Documents and reasonably inferable from them as necessary to produce the intended results.
 - Add the following **Article 1.2.5**:
 - The Contract Documents shall be interpreted collectively, each part complementing the others and consistent with the intent of the Contract Documents. Unless an item shown or described in the Contract Documents is specifically identified to be furnished or installed by the Owner or others or is identified as **Not In Contract (N.I.C.)**, the Contractor's obligation relative to that item shall be interpreted to include furnishing, assembling, installing, finishing, and/or connecting the item at the Contractor's expense to produce a product or system that is complete, appropriately tested, and in operable condition ready for use or subsequent construction or operation by the Owner or separate contractors. The omission of words or phrases for brevity of the Contract Documents, the inadvertent omission of words or phrases, or obvious typographical or written errors shall not defeat such interpretation as long as it is reasonably inferable from the Contract Documents as a whole.
 - Words or phrases used in the Contract Documents which have well-known technical or construction industry meanings are to be interpreted consistent with such recognized meanings unless otherwise indicated.
 - Except as noted otherwise, references to standard specifications or publications of associations, bureaus, or organizations shall mean the latest edition of the referenced standard specification or publication as of the date of the Advertisement of Bids.
 - In the case of inconsistency between Drawings and Specifications or within either document not clarified by addendum, the better quality or greater quantity of Work shall be provided in accordance with the Architect's interpretation.
 - Generally, portions of the Contract Documents written in longhand take precedence over typed portions, and typed portions take precedence over printed portions.
 - Any doubt as to the meaning of the Contract Documents or any obscurity as to the wording of them, shall be promptly submitted in writing to the Architect for written interpretation, explanation, or clarification.
 - DIGITAL DATA USE AND TRANSMISSION - DELETE THIS ARTICLE 1.7 ENTIRELY.
 - BUILDING INFORMATION MODELS USE AND RELIANCE - DELETE THIS ARTICLE 1.8 ENTIRELY.

ARTICLE 2 - OWNER

 - EVIDENCE OF THE OWNER'S FINANCIAL ARRANGEMENTS
 - Add the following to the beginning of **Article 2.2.1**:
 - "If the Project is a private project, not funded by public funds, then . . .".
 - DELETE **ARTICLE 2.2.2** ENTIRELY.
 - INFORMATION AND SERVICES REQUIRED OF THE OWNER
 - Delete **Article 2.3.1** in its entirety.
 - Add the following at the end of **Article 2.3.2**:
 - The term "Architect," "Engineer" or "Design Professional" as used in the Contract Documents refers to WBA Architecture.
 - Delete **Article 2.3.4** in its entirety.
 - Delete **Article 2.3.6** in its entirety and insert the following:
 - 2.2.5 The Contractor will be furnished free of charge digital copies of the plans and specifications, including all Addenda. Additional printed sets will be furnished at the cost of reproduction, postage and handling.
 - OWNER'S RIGHT TO STOP THE WORK
 - Delete **Article 2.4** in its entirety and insert the following:
 - If the Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents as required by Article 12.2 or fails to carry out Work in accordance with the Contract Documents or fails to perform any of its obligations under the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated. However, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Article 6.1.3.
 - The rights and remedies under this Article 2.4 are in addition to and do not in any respect limit any other rights of the Owner, including its termination rights under Article 14.

ARTICLE 3 - CONTRACTOR

- GENERAL
 - Add the following at the end of **Article 3.1.1**:
 - The relationship of Contractor to Owner shall be that of independent contractor, and nothing in the Contract Documents is intended to nor should it be construed as creating any other relationship, expressed or implied, between Owner and Contractor.
- REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR
 - Add the following **Article 3.2.5**:
 - The Owner is entitled to deduct from the Contractor's pay applications for amounts paid to the Architect for evaluating and responding to the Contractor's requests for information that are not prepared in accordance with the Contract Documents or where the requested information is available to the Contractor from a careful study and comparison of the Contract Documents, field conditions, other Owner-provided information, Contractor-prepared coordination drawings, or prior Project correspondence or documentation.
- LABOR AND MATERIALS
 - Add the following to the end of **Article 3.4.2**:
 - Some Sections of the Specifications may not allow substitution of materials, products or equipment. Where substitution is allowed the request for substitution will only be considered if made in strict accordance with the requirements of Article 3.4.4 below and Section 01630.
 - Add the following **Article 3.4.4**:
 - After the Contract has been executed, the Owner and the Architect may consider a request for the substitution of products in place of those specified only under the conditions set forth in Section 01630 of the specifications.
 - By making requests for substitutions, the Contractor:
 - Represents that the Contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respect to that specified;
 - Represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified;
 - Certifies that the cost data presented is complete and includes all related costs under this Contract except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently becomes apparent; and
 - Shall coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects at its costs.
 - All substitutions shall be submitted within 30 days of the Notice to Proceed, as per Section 01630.
 - Add the following **Article 3.4.5**:
 - Contractor represents that it has independently investigated, considered and understands the labor conditions in the area surrounding the Project and acknowledges that such conditions may impact the Contractor's cost and/or time of performance of the Contract. Therefore, Contractor further represents that the Contract Price is based upon Contractor's independent investigations into such labor conditions and that the Contract time is reasonable and the date of Substantial Completion is obtainable. As a result, Contractor assumes the risk of increased costs, if any, incurred by it arising out of or related to such labor conditions and acknowledges that Contractor and its surety will reimburse Owner for any additional costs Owner incurs arising out of or related to such labor conditions.
- PERMITS, FEES, NOTICES AND COMPLIANCE WITH LAWS
 - Delete **Article 3.7.1** in its entirety and insert the following:
 - The Contractor shall secure and pay for the building permit and all other permits, fees, licenses, inspections and all other approvals and charges necessary for proper execution and completion of the Work.
 - Delete the words "knowing it to be" from **Article 3.7.3**.
 - Add the following to the end of **Article 3.8.2.3**:
 - . . . , except when installation is specified to be included as part of the allowance in the General Requirements (Division 1 of the Specifications).
- SUPERINTENDENT
 - Add the following to the end of **Article 3.9.1**:
 - The Contractor shall also employ a competent project manager who shall be primarily responsible for the Contractor's home office activities in connection with the Contract.
 - The Owner shall have the right, which shall be exercised in a reasonable fashion, to approve the project manager and/or superintendent employed by the Contractor, either before or during the progress of construction.
 - The superintendent and project manager for the project shall be designated by the Contractor at the pre-construction conference. After Owner's approval of such project manager and superintendent, they shall not be replaced by the Contractor without the Owner's prior written consent, which consent is required unless the Contractor submits proof satisfactory to the Owner that the superintendent and/or the project manager should be terminated by the Contractor for cause.
- CONTRACTOR'S CONSTRUCTION AND SUBMITTAL SCHEDULES
 - Add "but, in any event, no less than submission of a revised schedule with each monthly application for payment pursuant to Section 9.3 "between "intervals" and "as" in the fourth sentence.
 - Delete **Article 3.10.3** in its entirety and insert the following:



BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON
1000 Municipal Dr.
Brandon, MS 39042



7/17/2026

100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2

REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26

R300
SPECIFICATIONS -
PHASE 03



BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON
1000 Municipal Dr.
Brandon, MS 39042

2. Construction progress schedule, revised and current as specified in Section 01.3000.
3. Partial release of liens from major Subcontractors and vendors. The Owner reserves the right to designate which entities involved in the Work must submit waivers.
4. Affidavits attesting to off-site stored products.
5. MODIFICATION PROCEDURES
 - A. For minor changes not involving an adjustment to the Contract Sum or Contract Time, Architect will issue instructions directly to Contractor.
 - B. For other required changes, Architect will issue a document signed by Owner instructing Contractor to proceed with the change, for subsequent inclusion in a Change Order.
 1. The document will describe the required changes and will designate method of determining any change in Contract Sum or Contract Time.
 2. Promptly execute the change.
 - C. For changes for which advance pricing is desired, Architect will issue a document that includes a detailed description of a proposed change with supplementary or revised drawings and specifications, a change in Contract Time for executing the change with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor shall prepare and submit a fixed price quotation within ____ days.
 - D. Contractor may propose a change by submitting a request for change to Architect, describing the proposed change and its full effect on the work, with a statement describing the reason for the change, and the effect on the Contract Sum and Contract Time with full documentation. Document any requested substitutions in accordance with Section 01.6000.
 - E. Computation of Change in Contract Amount: As specified in the Agreement and Conditions of the Contract.
 1. For change requested by Architect for work failing under a fixed price contract, the amount will be based on Contractor's price quotation.
 2. For change requested by Contractor, the amount will be based on the Contractor's request for a Change Order as approved by Architect.
 3. For pre-determined unit prices and quantities, the amount will be based on the fixed unit prices.
 - F. Substantiation of Costs: Provide full information required for evaluation.
 1. On request, provide the following data:
 - a. Quantities of products, labor, and equipment.
 - b. Taxes, insurance, and bonds.
 - c. Overhead and profit.
 - d. Justification for any change in Contract Time.
 - e. Credit for deletions from Contract, similarly documented.
 2. Support each claim for additional costs with additional information:
 - a. Origin and date of claim.
 - b. Dates and times work was performed, and by whom.
 - c. Time records and wage rates paid.
 - d. Invoices and receipts for products, equipment, and subcontracts, similarly documented.
 3. For Time and Material work, submit itemized account and supporting data after completion of change, within time limits indicated in the Conditions of the Contract.
 - G. Execution of Change Orders: Architect will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.
 - H. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.
 - I. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
 - J. Promptly enter changes in Project Record Documents.
6. APPLICATION FOR FINAL PAYMENT
 - A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.
 - B. Attach to Application for Final Payment the specified supporting documents as specified in Section 01.7800.
 - C. Application for Final Payment will not be considered until the following have been accomplished:
 1. All closeout procedures specified in Section 01.7000.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.2000

SECTION 01.2100 - ALLOWANCES

- PART 1 GENERAL
 1. SECTION INCLUDES
 - A. Cash allowances.
 - B. Contingency allowance.
 - C. Payment and modification procedures relating to allowances.
 2. RELATED REQUIREMENTS
 - A. Section 01.2000 - Price and Payment Procedures: Additional payment and modification procedures.
 3. CASH ALLOWANCES
 - A. Costs Included in Cash Allowances: Cost of product to Contractor or subcontractor, including product delivery to site and handling at the site, including unloading, uncrating, and storage; protection of products from elements and from damage; and labor for installation and finishing, less applicable trade discounts, less Overhead, Profit, Bond and Insurance costs associated with cash allowances. Overhead, Profit, Bond and Insurance costs shall be included in Base Bid costs in addition to the related cash allowances.
 - B. Architect Responsibilities:
 1. Consult with Contractor for consideration and selection of products, suppliers, and installers.
 2. Select products in consultation with Owner and transmit decision to Contractor.
 3. Prepare Change Order at Project Closeout to adjust Contract Sum for un-used allowance amounts.
 - C. Contractor Responsibilities:
 1. Assist Architect in selection of products, suppliers, and installers.
 2. Advise the Architect of dates when final selection and purchase associated with allowances must be completed to avoid delay of work.
 3. Obtain proposals from suppliers and installers and offer recommendations.
 4. Submit proposals for Architects review and approval prior to purchase.
 5. On notification of which products have been selected, execute purchase agreement with designated supplier and installer.
 6. Arrange for and process shop drawings, product data, and samples. Arrange for delivery.
 7. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.
 8. At the direction of the Architect, return unused materials to manufacturer or supplier for credit, prepare unused materials for storage by Owner, or dispose of unused materials at the Contractor's expense.
 - D. Differences in costs will be adjusted by Change Order prior to closeout.
 4. CONTINGENCY ALLOWANCE
 - A. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from this Contingency Allowance.
 - B. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.
 5. ALLOWANCES SCHEDULE
 - A. Contingency Allowance: Include the stipulated sum/price of \$10,000.00 for use upon Architect's and/or Owner's instructions.
 - B. Door Hardware Allowance: Include the stipulated sum/price of \$2,000.00 for the purchase and installation of all door hardware.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.2100

SECTION 01.2200 - UNIT PRICES

- PART 1 GENERAL
 1. SECTION INCLUDES
 - A. List of unit prices, for use in preparing Bids.
 - B. Measurement and payment criteria applicable to Work performed under a unit price payment method.
 2. COSTS INCLUDED
 - A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.
 3. UNIT QUANTITIES SPECIFIED
 - A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.
 4. MEASUREMENT OF QUANTITIES
 - A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.

- B. Take all measurements and compute quantities. Measurements and quantities will be verified by Architect.
- C. Assist by providing necessary equipment, workers, and survey personnel as required.
- D. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
- E. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.
- F. Measurement by Area: Measured by square dimension using mean length and width or radius.
- G. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.
- H. Stipulated Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as a completed item or unit of the Work.
5. PAYMENT
 - A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.
 - B. Payment will not be made for any of the following:
 1. Products wasted or disposed of in a manner that is not acceptable.
 2. Products determined as unacceptable before or after placement.
 3. Products not completely unloaded from the transporting vehicle.
 4. Products placed beyond the lines and levels of the required Work.
 5. Products remaining on hand after completion of the Work.
 6. Loading, hauling, and disposing of rejected Products.
6. SCHEDULE OF UNIT PRICES
 - A. Item: _____; Section _____

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.2200

SECTION 01.2300 - ALTERNATES

- PART 1 GENERAL
 1. SECTION INCLUDES
 - A. Description of Alternates.
 - B. Procedures for pricing Alternates.
 2. RELATED REQUIREMENTS
 - A. Document 00.2113 - Instructions to Bidders: Instructions for preparation of pricing for Alternates.
 - B. Document 00.4323 - Alternates Form: List of Alternates as supplement to Bid Form.
 3. ACCEPTANCE OF ALTERNATES
 - A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.
 - B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.
 4. SCHEDULE OF ALTERNATES
 - A. Alternate No. #1 - :
 1. Front drop-off canopy, demolition of front exterior, including removal of existing storefront. Demolition and relocation of existing flag pole, including all associated work required for relocation of the flag pole at the front signage wall. Refer to 1&2/D101, 2/A102,
 - B. Alternate No. #2A - :
 1. New building signage (Option 1) Refer to 1/A106
 - C. Alternate No. #2B - :
 1. New building signage (Option 2) Refer to 2/A106
 - D. Alternate No. #3 - :
 1. New dumpster enclosure. Refer to A107

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.2300

SECTION 01.3000 - ADMINISTRATIVE REQUIREMENTS

- PART 1 GENERAL
 1. SECTION INCLUDES
 - A. Preconstruction meeting.
 - B. Progress meetings.
 - C. Construction progress schedule.
 - D. Coordination drawings.
 - E. Submittals for review, information, and project closeout.
 - F. Number of copies of submittals.
 - G. Submittal procedures.
 2. RELATED REQUIREMENTS
 - A. Section 00.7200 - General Conditions: Dates for applications for payment.
 - B. Section 01.3216 - Construction Progress Schedule: Form, content, and administration of schedules.
 - C. Section 01.7000 - Execution and Closeout Requirements: Additional coordination requirements.
 - D. Section 01.7800 - Closeout Submittals: Project record documents; operation and maintenance data; warranties and bonds.
 3. PROJECT COORDINATOR
 - A. Project Coordinator: Contractor's Superintendent or Project Manager. The Contractor shall designate one individual as Project Coordinator and submit their qualifications to the Architect in writing prior to the start of Contract Work. The Project Coordinator shall not be changed during construction without the written consent of the Architect.
 - B. Cooperate with the Project Coordinator in allocation of mobilization areas of site; for field offices and sheds, for _____ access, traffic, and parking facilities.
 - C. During construction, coordinate use of site and facilities through the Project Coordinator.
 - D. Comply with Project Coordinator's procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.
 - E. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities. Responsibility for providing temporary utilities and construction facilities is identified in Section 01.1000 - Summary.
 - F. Coordinate field engineering and layout work under instructions of the Project Coordinator.
 - G. Make the following types of submittals to Architect through the Project Coordinator:
 1. Requests for Interpretation.
 2. Requests for substitution.
 3. Shop drawings, product data, and samples.
 4. Test and inspection reports.
 5. Manufacturer's instructions and field reports.
 6. Applications for payment and change order requests.
 7. Progress schedules.
 8. Coordination drawings.
 9. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

1. PRECONSTRUCTION MEETING
 - A. Architect will schedule and administer a meeting after Notice of Award and prior to the commencement of the work.
 - B. Attendance Required:
 1. Owner.
 2. Architect.
 3. Contractor, including Project Coordinator and Superintendent (if not the Project Coordinator).
 4. Architect's Consultants.
 5. Major Subcontractors.
 6. Governmental or Regulatory agency representatives as required.
 - C. Agenda:
 1. Execution of Owner-Contractor Agreement.
 2. Submission of executed bonds and insurance certificates.
 3. Distribution of Contract Documents.
 4. Designation of personnel representing the parties to Contract, _____ and _____.
 5. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 6. Scheduling.
 7. Use of premises by Owner and Contractor.
 8. Owner's requirements and occupancy prior to completion.
 9. Construction Facilities and controls provided by Owner.

10. Temporary Utility provisions.
11. Security and housekeeping procedures.
12. Procedures for testing.
2. PROGRESS MEETINGS
 - A. Schedule and administer meetings throughout progress of the Work at maximum monthly intervals. Owner, Architect or Contractor may to cancel meeting if deemed necessary by mutual agreement of all parties.
 - B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.
 - C. Location: Contractor's field office unless otherwise agreed.
 - D. Attendance Required:
 1. Contractor.
 2. Owner.
 3. Architect.
 4. Contractor's superintendent.
 5. Major subcontractors.
 - E. Agenda:
 1. Review minutes of previous meetings.
 2. Review of work progress.
 3. Field observations, problems, and decisions.
 4. Identification of problems that impede, or will impede, planned progress.
 5. Review of submittals schedule and status of submittals.
 6. Review of off-site fabrication and delivery schedules.
 7. Maintenance of progress schedule.
 8. Corrective measures to regain projected schedules.
 9. Planned progress during succeeding work period.
 10. Coordination of projected progress.
 11. Maintenance of quality and work standards.
 12. Effect of proposed changes on progress schedule and coordination.
 13. Other business relating to work.
 - F. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
3. CONSTRUCTION PROGRESS SCHEDULE
 - A. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
 - B. Within 10 days after joint review, submit complete schedule.
 - C. Submit updated schedule with each Application for Payment.
4. COORDINATION DRAWINGS
 - A. Provide information required by Project Coordinator for preparation of coordination drawings.
 - B. Review drawings prior to submission to Architect.
5. SUBMITTALS FOR REVIEW
 - A. When the following are specified in individual sections, submit them for review:
 1. Product data.
 2. Shop drawings.
 3. Samples for selection.
 4. Samples for verification.
 - B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.
 - C. Samples will be reviewed only for aesthetic, color, or finish selection. Submit all samples within 30 days after the Notice to Proceed.
 - D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01.7800 - Closeout Submittals.
6. SUBMITTALS FOR INFORMATION
 - A. When the following are specified in individual sections, submit them for information:
 1. Design data.
 2. Certificates.
 3. Test reports.
 4. Inspection reports.
 5. Manufacturer's instructions.
 6. Manufacturer's field reports.
 7. _____.
 8. Other types indicated.
 - B. Submit for Architect's knowledge as contract administrator or for Owner.
7. SUBMITTALS FOR PROJECT CLOSEOUT
 - A. Submit Correction Punch List for Substantial Completion.
 - B. Submit Final Correction Punch List for Substantial Completion.
 - C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01.7800 - Closeout Submittals:
 1. Project record documents.
 2. Operation and maintenance data.
 3. Warranties.
 4. Bonds.
 5. _____.
 6. Other types as indicated.
 - D. Submit for Owner's benefit during and after project completion.
8. NUMBER OF COPIES OF SUBMITTALS
 - A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.
 - B. Extra Copies at Project Closeout: See Section 01.7800.
 - C. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
 1. After review, produce duplicates.
 2. Retained samples will not be returned to Contractor.
9. SUBMITTAL PROCEDURES
 - A. General Requirements:
 - B. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents. Submittals that do not include the Contractor's stamp will be rejected.
 - C. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
 - D. Color schedules will be prepared by the Architect, and corresponding submittals for review after the Contractor has furnished all necessary color and finish samples.
 - E. Incomplete submittals will be rejected.

END OF SECTION 01.3000

SECTION 01.3216 - CONSTRUCTION PROGRESS SCHEDULE

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Preliminary schedule.
 - B. Construction progress schedule, bar chart type.
 2. RELATED SECTIONS
 - A. Section 01.1000 - Summary: Work sequence.
 3. REFERENCE STANDARDS
 - A. AGC (CPSM) - Construction Planning and Scheduling Manual; 2004.
 - B. M-H (CPM) - CPM in Construction Management - Project Management with CPM; O'Brien; 2006.
 4. SUBMITTALS
 - A. Within 10 days after date of Agreement, submit preliminary schedule.
 - B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
 - C. Within 20 days after review of preliminary schedule, submit proposed complete schedule for review.
 - D. Submit updated schedule with each Application for Payment.
 5. SCHEDULE FORMAT
 - A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.
 - B. Scale and Spacing: To allow for notations and revisions.
- PART 2 PRODUCTS - NOT USED**
- PART 3 EXECUTION**
1. PRELIMINARY SCHEDULE
 - A. Prepare preliminary schedule in the form of a horizontal bar chart.
 2. CONTENT
 - A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.
 - B. Identify each item by specification section number.

- C. Identify work of separate stages and other logically grouped activities.
- D. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month.
- E. Provide separate schedule of submittal dates for shop drawings, product data, and samples, owner-furnished products, products identified under Allowances, and dates reviewed submittals will be required from Architect. Indicate decision dates for selection of finishes.
- F. Coordinate content with schedule of values specified in Section 01.2000 - Price and Payment Procedures.
- G. Provide legend for symbols and abbreviations used.
3. BAR CHARTS
 - A. Include a separate bar for each major portion of Work or operation.
 - B. Identify the first work day of each week.
4. REVIEW AND EVALUATION OF SCHEDULE
 - A. Participate in joint review and evaluation of schedule with Architect at each submittal.
 - B. Evaluate project status to determine work behind schedule and work ahead of schedule.
 - C. After review, revise as necessary as result of review, and resubmit within 10 days.
5. UPDATING SCHEDULE
 - A. Maintain schedules to record actual start and finish dates of completed activities.
 - B. Indicate progress of each activity to date of revision, with projected completion date of each activity.
 - C. Annotate diagrams to graphically depict current status of Work.
 - D. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.
 - E. Indicate changes required to maintain Date of Substantial Completion.
 - F. Submit reports required to support recommended changes.
6. DISTRIBUTION OF SCHEDULE
 - A. Distribute copies of updated schedules to Contractor's project site file, to subcontractors, suppliers, Architect, Owner, and other concerned parties.
 - B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

END OF SECTION 01.3216

SECTION 01.4216 - DEFINITIONS

PART 1 GENERAL

1. SUMMARY
 - A. This section supplements the definitions contained in the General Conditions.
 - B. Other definitions are included in individual specification sections.
2. DEFINITIONS
 - A. Furnish: To supply, deliver, unload, and inspect for damage.
 - B. Install: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, start up, and make ready for use.
 - C. Product: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-used materials or equipment.
 - D. Project Manual: The book-sized volume that includes the procurement requirements (if any), the contracting requirements, and the specifications.
 - E. Provide: To furnish and install, complete and ready for intended use.
 - F. Supply: Same as Furnish.
 - G. Installer: Contractor or another entity engaged by the Contractor, as an employee, subcontractor, or contractor of lower tier, to perform a particular construction operation.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.4216

SECTION 01.4219 - REFERENCE STANDARDS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Requirements relating to referenced standards.
2. RELATED REQUIREMENTS
 - A. Document 00.7200 - General Conditions: Reference standards.
3. QUALITY ASSURANCE
 - A. For products or workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
 - B. Comply with the reference standard of date of issue specified in this section, except where a specific date is established by applicable code.
 - C. Should specified reference standards conflict with Contract Documents, request clarification from the Architect before proceeding.
 - D. Conformance to applicable laws and codes takes precedence over the requirements of all other reference standards.
 - E. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of the Architect shall be altered by Contract Documents by mention or inference otherwise in any reference document.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.4219

SECTION 01.5000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Temporary utilities.
 - B. Temporary telecommunications services.
 - C. Temporary sanitary facilities.
 - D. Temporary Controls: Barriers, enclosures, and fencing.
 - E. Security requirements.
 - F. Vehicular access and parking.
 - G. Waste removal facilities and services.
2. TEMPORARY UTILITIES
 - A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.
3. TELECOMMUNICATIONS SERVICES
 - A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.
 - B. Telecommunications services shall include:
 1. Windows-based personal computer dedicated to project telecommunications, with necessary software and laser printer.
 2. Internet Connections: Minimum of one; DSL, modem or faster.
 3. Email: Account/address reserved for project use.
4. TEMPORARY SANITARY FACILITIES
 - A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
 - B. Maintain daily in clean and sanitary condition.
5. BARRIERS
 - A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
 - B. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.
 - C. Provide protection for plants designated to remain. Replace damaged plants.
 - D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.
6. VEHICULAR ACCESS AND PARKING
 - A. Coordinate access and haul routes with governing authorities and Owner.
 - B. Provide and maintain access to fire hydrants, free of obstructions.
 - C. Coordinate parking for construction personnel with Owner's requirements.
7. WASTE REMOVAL
 - A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
 - B. Provide containers with lids. Remove trash from site weekly.
 - C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
8. REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS



7/17/2026

100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2

REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26

R302
SPECIFICATIONS -
PHASE 03

- D. Do not begin removal until built elements to be salvaged or relocated have been removed.
- E. Protect existing structures and other elements that are not to be removed.
1. Provide bracing and shoring.
 2. Prevent movement or settlement of adjacent structures.
 3. Stop work immediately if adjacent structures appear to be in danger. Do not resume operations until conditions have been corrected and / or secured.
- F. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
- G. If unanticipated mechanical, plumbing, electrical or structural elements are found to be in conflict with the design as documented in the drawings and specifications, invelate and measure the nature and extent of the conflit. Submit written report documenting the conflit to Architect.
- H. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury. Comply with applicable regulations, laws, and ordinances concerning removal, handling and protection against exposure or environmental pollution.
3. EXISTING UTILITIES
- A. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
- E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
- F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
- H. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone; identify and mark utilities to be subsequently reconnected, in same manner as other utilities to remain.
4. SELECTIVE DEMOLITION FOR ALTERATIONS
- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only. The Owner assumes no resonsibility for the actual condition of items or structures to be removed.
1. Verify that construction and utility arrangements are as indicated.
 2. Report discrepancies to Architect before disturbing existing installation.
 3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Separate areas in which demolition is being conducted from other areas that are still occupied.
1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 01.5000 in locations indicated on drawings.
- C. Remove existing work as indicated and as required to accomplish new work.
1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction specified.
 2. Remove items indicated on drawings.
- D. Services (including but not limited to HVAC, Plumbing, Fire Protection, Electrical, Telecommunications, and ____): Remove existing systems and equipment as indicated.
1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.
 2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
 3. Verify that abandoned services serve only abandoned facilities before removal.
 4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.
- E. Protect existing work to remain.
1. Prevent movement of structure; provide shoring and bracing if necessary.
 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
 3. Repair adjacent construction and finishes damaged during removal work.
 4. Patch as specified for patching new work.
5. DEBRIS AND WASTE REMOVAL
- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.
6. DAMAGE AND REPAIR
- A. Damage to adjacent construction or surfaces caused by demolition work is to be repaired to match conditions prior to the start of demolition.
- B. All repairs are to be made promptly and at no additional cost to the Owner.
- END OF SECTION 02.4100

DIVISION 03 - CONCRETE

SECTION 03.0516 - UNDERSLAB VAPOR BARRIER - STEGO

- PART 1 GENERAL**
1. SECTION INCLUDES
- A. Sheet vapor barrier under concrete slabs on grade.
2. RELATED REQUIREMENTS
- A. Section 03.1000 - Concrete Forming and Accessories: Forms and accessories for formwork.
- B. Section 03.2000 - Concrete Reinforcing.
- C. Section 03.3000 - Cast-in-Place Concrete: Preparation of subgrade, granular fill, placement of concrete.
3. REFERENCE STANDARDS
- A. ASTM E1643 - Standard Practice for Selection, Design, Installation and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs; 2011.
- B. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs; 2011.
4. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturers' data on manufactured products.
- C. Manufacturer's Installation Instructions: Indicate installation procedures and interface required with adjacent construction.
- PART 2 PRODUCTS**
1. MATERIALS
- A. Underslab Vapor Barrier:
1. Water Vapor Permeance: Not more than 0.010 perms (0.6 ng/(s m² Pa)), maximum.
 2. Complying with ASTM E1745 Class A.
 3. Thickness: 15 mils (0.4 mm).
 4. Basis of Design:
 - a. Stego Industries LLC, Stego Wrap Vapor Barrier (15-mil): www.stegoindustries.com/#sle.
 - b. Substitutions: See Section 01.6000 - Product Requirements.
- B. Accessory Products: Vapor barrier manufacturer's recommended tape, adhesive, mastic, pipe boots, etc., for sealing seams and penetrations in vapor barrier.
- PART 3 EXECUTION**
1. EXAMINATION
- A. Verify that surface over which vapor barrier is to be installed is complete and ready before proceeding with installation of vapor barrier.
2. INSTALLATION
- A. Install vapor barrier in accordance with manufacturer's instructions and ASTM E1643.
- B. Install vapor barrier under interior slabs on grade, grade beams and in other areas as shown in the drawings; lap sheet over footings and seal to foundation walls unless shown otherwise.
- C. Lap joints, including all penetrations and patches, a minimum 6 inches (150 mm).
- D. Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions.
- E. No penetration of vapor barrier is allowed except for reinforcing steel and permanent utilities.
- F. Repair damaged vapor retarder before covering with other materials.
- END OF SECTION 03.0516

SECTION 03.1000 - CONCRETE FORMING AND ACCESSORIES

- PART 2 PRODUCTS**
1. FORMWORK - GENERAL
- A. Provide concrete forms, accessories, shoring, and bracing as required to accomplish cast-in-place concrete work.

- B. Design and construct concrete that complies with design with respect to shape, lines, and dimensions.
- C. Comply with applicable state and local codes with respect to design, fabrication, erection, and removal of formwork.
- END OF SECTION 03.1000

SECTION 03.2000 - CONCRETE REINFORCING

- PART 1 GENERAL**
1. SEE STRUCTURAL DRAWINGS
- END OF SECTION 03.2000

SECTION 03.3000 - CAST-IN-PLACE CONCRETE

- PART 1 GENERAL**
1. SEE STRUCTURAL DRAWINGS
- END OF SECTION 03.3000

DIVISION 04 - MASONRY

SECTION 04.2000 - UNIT MASONRY

- PART 1 GENERAL**
1. SECTION INCLUDES
- A. Concrete block.
- B. Concrete building brick.
- C. Clay facing brick.
- D. Common brick.
- E. Reinforcement and anchorage.
- F. Flashings.
- G. Accessories.
2. RELATED REQUIREMENTS
- A. Section 04.0511 - Masonry Mortaring and Grouting.
- B. Section 07.9200 - Joint Sealants: Sealing control and expansion joints.
3. REFERENCE STANDARDS
- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- B. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2009a (Reapproved 2014).
- C. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2015.
- D. ASTM C55 - Standard Specification for Concrete Building Brick; 2011.
- E. ASTM C62 - Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale); 2013.
- F. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units; 2014.
- G. ASTM C129 - Standard Specification for Nonloadbearing Concrete Masonry Units; 2011.
- H. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale); 2014.
- I. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2014a.
- J. ASTM C1072 - Standard Test Method for Measurement of Masonry Flexural Bond Strength; 2013.
- K. ASTM C1148 - Standard Test Method for Measuring the Drying Shrinkage of Masonry Mortar; 1992a (Reapproved 2008).
- L. ASTM C1314 - Standard Test Method for Compressive Strength of Masonry Prisms; 2014.
- M. ASTM C1634 - Standard Specification for Concrete Facing Brick; 2011.
- N. ASTM E514/E514M - Standard Test Method for Water Penetration and Leakage Through Masonry; 2014.
- O. BIA Technical Notes No. 7 - Water Penetration Resistance - Design and Detailing; 2005.
- P. BIA Technical Notes No. 13 - Ceramic Glazed Brick Exterior Walls; 2017.
- Q. BIA Technical Notes No. 28B - Brick Veneer/Steel Stud Walls; 2005.
- R. BIA Technical Notes No. 46 - Maintenance of Brick Masonry; 2005.
4. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.
- C. Samples: Submit four samples of facing brick units to illustrate color, texture, and extremes of color range.
- D. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.
- E. Furnish samples for the following items:
1. One full size sample of each specified type of 8"x8"x16" stretcher concrete masonry unit.
 2. One each of embedded masonry accessories.
- F. Manufacturer's Certificate: Certify that water repellent admixture manufacturer has certified masonry unit manufacturer as an approved user of water repellent admixture in the manufacture of concrete block.
5. QUALITY ASSURANCE
- A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section with minimum three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of experience.
- C. Single Source Responsibility for masonry units: Obtain exposed masonry units of uniform texture and color. Concrete masonry units that vary in texture or color shall be culled and removed from the site.
- D. Single Source Responsibility for Mortar Materials: Obtain mortar ingredients of uniform quality for all exposed masonry from one manufacturer for each cementitious component and from one source and producer for each aggregate.
- E. Pre - Installation Meeting: Contractor shall schedule a Concrete Masonry pre- installation meeting with Architect, General Contractor, masonry and mortar product representatives, and installer prior to installation of CMU walls to discuss job specific and standard installation procedures.
- F. Quality of Masonry Units: All masonry units shall be uniform in color, texture and size with sharp straight corners and without chipped or broken corners or faces. Exposed masonry units with chipped or broken corners, faces or other defects shall be culled and discarded. All such units placed in a wall shall be removed and replaced. Concrete blocks shall conform to ASTM C90 TYPE 1. The provisions of ASTM C90 Paragraph 7.3.1 apply with regard to imperfections. The exception being no chip larger than 1/4" diameter and no dimensional tolerances larger than 1/16" shall be installed.
6. MOCK-UP
- A. Construct a masonry wall as a mock-up panel sized 8 feet (2.4 m) long by 6 feet (1.8 m) high; include mortar, accessories, structural backup, and flashings (with lap joint, corner, and end dam) in mock-up. Upon written approval of the Architect, this panel will become the quality standard for the job and be incorporated into the work. Any work which fails to meet the approved standard will be removed and replaced without additional cost to the Owner.
7. DELIVERY, STORAGE, AND HANDLING
- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.
- B. Handle and protect all materials so as to protect them against staining, breakage, deterioration and mixture with non approved materials. Keep palletized materials in original condition until ready for use.
- PART 2 PRODUCTS**
1. CONCRETE MASONRY UNITS
- A. Concrete Block: Comply with referenced standards and as follows:
1. Size: Standard units with nominal face dimensions of 16 by 8 inches (400 by 200 mm) and nominal depths as indicated on drawings for specific locations.
 2. Load-Bearing Units: ASTM C90, normal weight.
 - a. Exposed Faces: Manufacturer's standard color and texture where indicated.
 3. Non-Loadbearing Units: ASTM C129.
 - a. Hollow block, as indicated.
 4. Hollow concrete masonry units to comply with ASTM C-90, Grade N, Type I in color "Natural Gray," having a compressive strength of 1,900 PSI. All block surfaces shall be uniform in texture and color.
 5. Standard Block: Block shall be 8"x16" nominal modular face, thickness indicated on drawings.
 6. Solid Concrete Masonry Units: To comply with ASTM C-145, Grade N, with an average compressive strength of 1,800 PSI.
 7. Special Shape Concrete Masonry Units: Proved accessory shapes as indicated or otherwise required to include flush end, halves, lintel block, "U" blocks, jamb blocks, solid bull-nose wall caps and other special shapes.
 8. Units with Integral Water Repellent: Concrete block units as specified in this section with polymeric liquid admixure added to concrete masonry units at the time of manufacture.
 - a. Performance of Units with Integral Water Repellent:
 - 1) Water Permeance: When tested per ASTM E514/E514M for a minimum of 72 hours.
 - a) No water visible on back of wall above flashing at the end of 24 hours.
 - b) No flow of water from flashing equal to or greater than 0.032 gallons per hour (0.05 L per hour) at the end of 24 hours.
- c) No more than 25 percent of wall area above flashing visibly damp at end of test.
- 2) Flexural Bond Strength: ASTM C1072; minimum 10 percent increase.
 - 3) Compressive Strength: ASTM C1314; maximum 5 percent decrease.
 - 4) Drying Shrinkage: ASTM C1148; maximum 5 percent increase in shrinkage.
- b. Use only in combination with mortar that also has integral water repellent admixture.
- c. Use water repellent admixtures for masonry units and mortar by a single manufacturer.
- d. Manufacturers:
- 1) _____.
 - 2) Substitutions: See Section 01.6000 - Product Requirements.
- B. Concrete Brick:
1. For below grade use, ASTM C1634 (or ASTM C55, Grade N), normal weight.
2. BRICK UNITS
- A. Manufacturers:
1. _____.
 2. Substitutions: See section 01.6000 - Product Requirements.
- B. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
1. Color and texture to match Architect's sample.
 2. Nominal size: As indicated on drawings.
 3. Special shapes: Molded units as required by conditions indicated, unless standard units can be sawn to produce equivalent effect.
3. MORTAR AND GROUT MATERIALS
- A. Mortar and Grout: As specified in Section 04.0511.
4. REINFORCEMENT AND ANCHORAGE
- A. Manufacturers:
1. Hohmann & Barnard, Inc; X-Seal Anchor: www.h-b.com/#sle.
 2. _____.
 3. Substitutions: See Section 01.6000 - Product Requirements.
- B. Continuous type of standard manufacture, hot-dipped galvanized truss design. Reinforcement shall have not less than No. 9 steel wire cross rods and No. 9 deformed side rods conforming to ASTM A-153, Class B2. Use proper width for wall thicknesses as shown on the drawings. Anchors of various types as required.
- C. At all CMU partition intersections: Use #344 Galvanized rigid partition anchors at 16" o.c. vertical, as manufactured by Hohmann & Barnard or Architect's approved equal, grouting one (1) cell in each of the intersecting partitions full height.
- D. Furnish complete prefabricated corners and tees.
- E. Single Wythe Joint Reinforcement: Truss or ladder type; ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M, Class 3; 0.1453 inch (3.8 mm) side rods with 0.1453 inch (3.8 mm) cross rods; width as required to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage on each exposure.
- F. Strap Anchors: Bent steel shapes, 1-1/2 inch (38 mm) wide, 0.105 inch (2.7 mm) thick, 24 inch (610 mm) length, with 1-1/2 inch (38 mm) long; 90 degree bend at each end to form a U or Z shape or with cross pins, hot dip galvanized to ASTM A153/A153M Class B.
- G. Flexible Anchors: 2-piece anchors that permit differential movement between masonry and building frame, sized to provide not less than 5/8 inch (16 mm) of mortar coverage from masonry face.
- H. Two-Piece Wall Brick Ties: Formed steel wire, 0.1875 inch (4.8 mm) thick, adjustable, eye and pintle type, hot dip galvanized to ASTM A 153/A 153M, Class B, sized to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage from masonry face and to allow vertical adjustment of up to 1-1/4 in (32 mm). Install spaced at 16" o.c. vertical and 32" o.c. horizontal.
- I. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B.
1. Anchor plates: Not less than 0.075 inch (1.91 mm) thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
 2. Wire ties: Manufacturer's standard shape, 0.1875 inch (4.75 mm) thick.
 3. Vertical adjustment: Not less than 3-1/2 inches (89 mm).
- J. Control joint wall ties: shall be equal to Hohmann & Barnard Slip-set Stabilizer, hot-dipped galvanized using
1. PVC control joint: shall be equal to Hohmann & Barnard #V-S-Standard. PVC material shall conform to ASTM D-2287 and tested in conformance with ASTM D-2240.
 2. Type "H" for horizontal mortar joint and type "V" to connect to intersecting wall. Ties shall be placed 16" o.c. max. vertically.
- K. Single Wythe Concrete Masonry Unit Drainage System:
1. Fill fullthe cores of the first CMU course. Install CMU cell flashing pans above first CMU course in 2 beads of butyl sealant with built in adjoining bridge made from recycled polypropylene with chemical stabilizers that prevent UV degradation. Flashing pans have a sloped design to direct moisture to the integrated weep spout. Ensure spout sits flush with top of block below. Fully pack mortar around spout to create a clean neat solid joint. Pan is designed to be built into mortar bed joints to expel moisture (unimpeded by mortar droppings) to the exterior of CMU walls. Drainage Mattes and Bug Guards included. Product: provide "BLOCKFLASH as manufactured by Mortar Net Solutions or approved equal
5. FLASHINGS
- A. Refer to Section 07.6200.
6. ACCESSORIES
- A. Preformed Control Joints: Rubber material. Provide with corner and tee accessories, fused joints.
1. Manufacturers:
 - a. Hohmann & Barnard, Inc; _____: www.h-b.com/#sle.
 - b. _____.
 - c. Substitutions: See Section 01.6000 - Product Requirements.
- B. Joint Filler: Closed cell polyvinyl chloride; oversized 50 percent to joint width; self expanding; in maximum lengths available.
1. Manufacturers:
 - a. Hohmann & Barnard, Inc; _____: www.h-b.com/#sle.
- C. Termination Bars: Stainless steel; compatible with membrane and adhesives.
- D. Drip Edge: Stainless steel; compatible with membrane and adhesives.
- E. Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane and adhesives.
- F. Weeps:
1. Weep/Vent Products: Use the following, unless otherwise indicated:
 1. 100% cotton weep cord 3/8" diameter extending min. 18" up surface of wall and taped. Leave cord extending out of wall for duration of construction. Once construction is complete, contractor to cut back cord to 3/4" from face of masonry.
 2. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.
- PART 3 EXECUTION**
1. EXAMINATION
- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.
2. PREPARATION
- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.
3. COLD AND HOT WEATHER REQUIREMENTS
- A. Maintain materials and surrounding air temperature to minimum 40 degrees F (5 degrees C) prior to, during, and 48 hours after completion of masonry work.
- B. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.
4. COURSEING
- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
1. Bond: Running.
 2. Mortar Joints: Concave.
5. PLACING AND BONDING
- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.
- C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
- D. Employ solid bricks @ ends of rowlock sills and all other locations where holes may be visible.
- E. Remove excess mortar and mortar smears as work progresses.
- F. Interlock intersections and external corners, except for units laid in stack bond.
- G. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- H. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- I. Cut mortar joints flush where wall tile is scheduled or resilient base is scheduled.
- J. Joint treatment:
1. Exposed block: Make joints uniform, approximately 3/8" (plus or minus a maximum variance of 1/16") wide, tool and compress concave joint using 18" long tool on each side unless otherwise noted in drawings or below. Mortar joints should be tooled to a concave profile when the mortar is thumbprint hard.
 2. Concealed Block: Make joints uniform approximately 3/8" wide, cut mortar flush with face of block.

- c) No more than 25 percent of wall area above flashing visibly damp at end of test.
- 2) Flexural Bond Strength: ASTM C1072; minimum 10 percent increase.
 - 3) Compressive Strength: ASTM C1314; maximum 5 percent decrease.
 - 4) Drying Shrinkage: ASTM C1148; maximum 5 percent increase in shrinkage.
- b. Use only in combination with mortar that also has integral water repellent admixture.
- c. Use water repellent admixtures for masonry units and mortar by a single manufacturer.
- d. Manufacturers:
- 1) _____.
 - 2) Substitutions: See Section 01.6000 - Product Requirements.

- B. Concrete Brick:
1. For below grade use, ASTM C1634 (or ASTM C55, Grade N), normal weight.

2. BRICK UNITS

- A. Manufacturers:
1. _____.
 2. Substitutions: See section 01.6000 - Product Requirements.
- B. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
1. Color and texture to match Architect's sample.
 2. Nominal size: As indicated on drawings.
 3. Special shapes: Molded units as required by conditions indicated, unless standard units can be sawn to produce equivalent effect.

3. MORTAR AND GROUT MATERIALS

- A. Mortar and Grout: As specified in Section 04.0511.

4. REINFORCEMENT AND ANCHORAGE

- A. Manufacturers:
1. Hohmann & Barnard, Inc; X-Seal Anchor: www.h-b.com/#sle.
 2. _____.
 3. Substitutions: See Section 01.6000 - Product Requirements.
- B. Continuous type of standard manufacture, hot-dipped galvanized truss design. Reinforcement shall have not less than No. 9 steel wire cross rods and No. 9 deformed side rods conforming to ASTM A-153, Class B2. Use proper width for wall thicknesses as shown on the drawings. Anchors of various types as required.
- C. At all CMU partition intersections: Use #344 Galvanized rigid partition anchors at 16" o.c. vertical, as manufactured by Hohmann & Barnard or Architect's approved equal, grouting one (1) cell in each of the intersecting partitions full height.
- D. Furnish complete prefabricated corners and tees.
- E. Single Wythe Joint Reinforcement: Truss or ladder type; ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M, Class 3; 0.1453 inch (3.8 mm) side rods with 0.1453 inch (3.8 mm) cross rods; width as required to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage on each exposure.
- F. Strap Anchors: Bent steel shapes, 1-1/2 inch (38 mm) wide, 0.105 inch (2.7 mm) thick, 24 inch (610 mm) length, with 1-1/2 inch (38 mm) long; 90 degree bend at each end to form a U or Z shape or with cross pins, hot dip galvanized to ASTM A153/A153M Class B.
- G. Flexible Anchors: 2-piece anchors that permit differential movement between masonry and building frame, sized to provide not less than 5/8 inch (16 mm) of mortar coverage from masonry face.
- H. Two-Piece Wall Brick Ties: Formed steel wire, 0.1875 inch (4.8 mm) thick, adjustable, eye and pintle type, hot dip galvanized to ASTM A 153/A 153M, Class B, sized to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage from masonry face and to allow vertical adjustment of up to 1-1/4 in (32 mm). Install spaced at 16" o.c. vertical and 32" o.c. horizontal.
- I. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B.
1. Anchor plates: Not less than 0.075 inch (1.91 mm) thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
 2. Wire ties: Manufacturer's standard shape, 0.1875 inch (4.75 mm) thick.
 3. Vertical adjustment: Not less than 3-1/2 inches (89 mm).
- J. Control joint wall ties: shall be equal to Hohmann & Barnard Slip-set Stabilizer, hot-dipped galvanized using
1. PVC control joint: shall be equal to Hohmann & Barnard #V-S-Standard. PVC material shall conform to ASTM D-2287 and tested in conformance with ASTM D-2240.
 2. Type "H" for horizontal mortar joint and type "V" to connect to intersecting wall. Ties shall be placed 16" o.c. max. vertically.
- K. Single Wythe Concrete Masonry Unit Drainage System:
1. Fill fullthe cores of the first CMU course. Install CMU cell flashing pans above first CMU course in 2 beads of butyl sealant with built in adjoining bridge made from recycled polypropylene with chemical stabilizers that prevent UV degradation. Flashing pans have a sloped design to direct moisture to the integrated weep spout. Ensure spout sits flush with top of block below. Fully pack mortar around spout to create a clean neat solid joint. Pan is designed to be built into mortar bed joints to expel moisture (unimpeded by mortar droppings) to the exterior of CMU walls. Drainage Mattes and Bug Guards included. Product: provide "BLOCKFLASH as manufactured by Mortar Net Solutions or approved equal

5. FLASHINGS

- A. Refer to Section 07.6200.

6. ACCESSORIES

- A. Preformed Control Joints: Rubber material. Provide with corner and tee accessories, fused joints.
1. Manufacturers:
 - a. Hohmann & Barnard, Inc; _____: www.h-b.com/#sle.
 - b. _____.
 - c. Substitutions: See Section 01.6000 - Product Requirements.
- B. Joint Filler: Closed cell polyvinyl chloride; oversized 50 percent to joint width; self expanding; in maximum lengths available.
1. Manufacturers:
 - a. Hohmann & Barnard, Inc; _____: www.h-b.com/#sle.
- C. Termination Bars: Stainless steel; compatible with membrane and adhesives.
- D. Drip Edge: Stainless steel; compatible with membrane and adhesives.
- E. Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane and adhesives.
- F. Weeps:
1. Weep/Vent Products: Use the following, unless otherwise indicated:
 1. 100% cotton weep cord 3/8" diameter extending min. 18" up surface of wall and taped. Leave cord extending out of wall for duration of construction. Once construction is complete, contractor to cut back cord to 3/4" from face of masonry.
 2. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

PART 3 EXECUTION

1. EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

2. PREPARATION

- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.
3. COLD AND HOT WEATHER REQUIREMENTS
- A. Maintain materials and surrounding air temperature to minimum 40 degrees F (5 degrees C) prior to, during, and 48 hours after completion of masonry work.
- B. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.

4. COURSEING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
1. Bond: Running.
 2. Mortar Joints: Concave.

5. PLACING AND BONDING

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.
- C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
- D. Employ solid bricks @ ends of rowlock sills and all other locations where holes may be visible.
- E. Remove excess mortar and mortar smears as work progresses.
- F. Interlock intersections and external corners, except for units laid in stack bond.
- G. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- H. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- I. Cut mortar joints flush where wall tile is scheduled or resilient base is scheduled.
- J. Joint treatment:
1. Exposed block: Make joints uniform, approximately 3/8" (plus or minus a maximum variance of 1/16") wide, tool and compress concave joint using 18" long tool on each side unless otherwise noted in drawings or below. Mortar joints should be tooled to a concave profile when the mortar is thumbprint hard.
 2. Concealed Block: Make joints uniform approximately 3/8" wide, cut mortar flush with face of block.

3. Point and fill flush all exterior cavity side masonry joints as work progresses. Do not leave any voids or cracks larger than 1/32" or excess mortar or mortar residue on surface. Architect must inspect and approve surface prior to installation of dampproofing or waterproofing.
- K. Protect all exposed masonry during construction against staining and excess mortar. As the work progresses, clean mortar daubs, smears and residue from masonry work before it sets up. No anti-freeze ingredient shall be used.
6. WEEPS/CAVITY VENTS
- A. Install cotton cord weeps in veneer and cavity walls at 24 inches (600 mm) on center horizontally above through-wall flashing, above shelf angles and lintels, and at bottom of walls. Extend a min. 18" up surface of wall and tape. Leave cord extending out of wall for duration of construction. Once construction is complete, contractor to cut back cord to 3/4" from face of masonry.

7. CAVITY MORTAR CONTROL

- A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.
- B. Rake backside of brick/block to help maintain a clean cavity.

8. REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, AND CAVITY WALL MASONRY

- A. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.
- B. Place continuous joint reinforcement in first and second joint below top of walls.
- C. Lap joint reinforcement ends minimum 6 inches (150 mm).
- D. Fasten anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated under specific wall type, space anchors at maximum of 36 inches (900 mm) horizontally and 24 inches (600 mm) vertically.
- E. Install trussed or ladder wall reinforcing in the first and second bed joint and at 16" o.c. vertically elsewhere. Lap side rods at splices at least 6" and per manufacturer's minimum requirements. Use pre-fabricated corner units at all corners and intersections for anchoring abutting walls and partitions.
- F. Cut or interrupt joint reinforcement at control and expansion joints unless otherwise indicated.
- G. Install control and expansion joints in unit masonry where indicated. Build in related items as the masonry progresses. Do not form a continuous span through movement joints unless provisions are made to prevent in-plane restraint of wall or partition movement.

9. REINFORCEMENT AND ANCHORAGE - SINGLE WYTHE MASONRY

- A. Install horizontal joint reinforcement 8 inches (200 mm) on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.

10. MASONRY FLASHINGS

- A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
1. Extend flashings full width at such interruptions and at least 6 inches (152 mm), minimum, into adjacent masonry or turn up flashing ends at least 1 inch (25.4 mm), minimum, to form watertight pan at non-masonry construction.
- B. Extend metal flashings to within 1/2 inch (12 mm) of exterior face of masonry and adhere to top of stainless steel angled drip with hemmed edge.
- C. Lap and joints of flashings at least 6 inches (152 mm), minimum, and seal watertight with flashing sealant/adhesive.

11. CONTROL AND EXPANSION JOINTS

- A. Do not continue horizontal joint reinforcement through control or expansion joints.
- B. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with manufacturer's instructions.

12. TOLERANCES

- A. Maximum Variation From Unit to Adjacent Unit: 1/16 inch (1.6 mm).
- B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft (6 mm/3 m) and 1/2 inch in 20 ft (13 mm/6 m) or more.
- C. Maximum Variation from Plumb: 1/4 inch (6 mm) per story non-cumulative; 1/2 inch (13 mm) in two stories or more.

13. CLEANING

- A. Remove excess mortar and mortar droppings.
- B. Replace defective mortar. Match adjacent work.
- C. Clean soiled surfaces with cleaning solution.
- D. On completion, fill all holes and joints. Remove loose mortar. All daubs, smears and mortar residue left on wall surface shall be cleaned by scraping or wire brushing.
- E. Masonry joints and masonry units that cannot be pointed up and cleaned to the Architect's satisfaction shall be removed and replaced.
- F. Keep walls clean daily during installation using brushes, rags, and burlap squares. Do not allow excess mortar lumps, smears or residue

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs. (Locate counter butt joints minimum 600 mm from sink cut-outs.)

PART 3 EXECUTION

1. EXAMINATION
- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.
2. INSTALLATION
- A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- B. Use fixture attachments in concealed locations for wall mounted components.
- C. Use concealed joint fasteners to align and secure adjoining cabinet units.
- D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch (0.79 mm). Do not use additional overlay trim for this purpose.
- E. Secure cabinets to floor using appropriate angles and anchorages.
3. ADJUSTING
- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.
4. CLEANING
- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.
- END OF SECTION 06.4100

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 07.4213 - METAL WALL PANELS

PART 1 GENERAL

1. SECTION INCLUDES
- A. Metal wall panel system.
2. RELATED REQUIREMENTS
- A. Section 05.4000 - Cold-Formed Metal Framing: Wall panel substrate.
- B. Section 06.1000 - Rough Carpentry: Wall panel substrate.
- C. Section 07.2500 - Weather Barriers: Weather barrier under wall panels.
- D. Section 07.2700 - Air Barriers: Air barrier under wall panels.
- E. Section 07.9200 - Joint Sealants: Sealing joints between metal wall panel system and adjacent construction.
- F. Section 09.2116 - Gypsum Board Assemblies: Wall panel substrate.
3. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements for submittal procedures.
- B. Product Data - Wall System: Manufacturer's data sheets on each product used, including:
- Physical characteristics of components shown on shop drawings.
 - Storage and handling requirements and recommendations.
 - Installation instructions and recommendations.
- C. Samples: Submit two samples of wall panel, 12 by 12 inches (305 by 305 mm) in size illustrating finish color, sheen, and texture.
- D. Manufacturer's instructions.
- E. Executed warranty.
4. DELIVERY, STORAGE, AND HANDLING
- A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.
- B. Store prefinished material off the ground and protect it from weather; prevent twisting, bending, or abrasion; provide ventilation; slope metal sheets to ensure proper drainage.
- C. Prevent contact with materials that cause discoloration or staining of products.
5. FIELD CONDITIONS
- A. Do not install wall panels when air temperature or relative humidity is outside manufacturer's limits.
6. WARRANTY
- A. See Section 01.7800 - Closeout Submittals for additional warranty requirements.
- B. Finish Warranty: Provide 40-year manufacturer warranty on film integrity, and 30-year manufacturer warranty against fading and chalking of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS

1. MANUFACTURERS
- A. Metal Wall Panels - Concealed Fasteners:
- Centria, a Nucor Company; CS-260 Panel: www.centria.com
 - Substitutions: See Section 01.6000 - Product Requirements.
2. METAL WALL PANEL SYSTEM
- A. Wall Panel System: Factory-fabricated prefinished metal panel system; FW-12 Panel, site assembled.
- B. Wall Panel System: Concept Series CS-260 Horizontal Concealed Fastener Panel system.
- Color: to be selected by Architect from manufacturer's full range of standard colors.
 - Size components to support assembly dead loads and withstand live loads caused by positive and negative wind pressure acting normally to plane of wall.
 - Design Pressure: In accordance with applicable codes.
 - Maximum Allowable Deflection of Panel: L/180 for length (L) of span.
 - Movement: Accommodate movement within system without damage to components or deterioration of seals, movement between system and perimeter components when subject to seasonal temperature cycling, dynamic loading and release of loads, and deflection of structural support framing.
 - Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
 - Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
- C. Internal and External Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; shop-cut to required angles.
- D. Expansion Joints: Same material, thickness, and finish as exterior sheets; ___ gauge, ___ inch (___ mm) thick; manufacturer's standard brake-formed type, of profile to suit system.
- E. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
- F. Anchors: Galvanized steel.
3. ACCESSORIES
- A. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane, compatible with PVDF paint system.
- B. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, stainless steel.
- Metal-to-Metal Fasteners: Self-drilling, self-tapping screws, coated and corrosion-resistant.

PART 3 EXECUTION

1. EXAMINATION
- A. Verify building framing members ready to receive panels.
- B. Air Barrier:
- Verify installation over wall panel substrate; see Section 05.4000.
2. INSTALLATION
- A. Install panels on walls and soffits in accordance with manufacturer's instructions.
3. CLEANING
- A. Remove site cuttings from finish surfaces.
- B. Remove protective material from wall panel surfaces.
- C. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.
4. PROTECTION
- A. Protect metal wall panels until completion of project.
- B. Touch up, repair, or replace damaged wall panels or accessories before Date of Substantial Completion.
- END OF SECTION 07.4213

SECTION 07.5423 - THERMOPLASTIC-POLYOLEFIN (TPO) MEMBRANE ROOFING - JOHNS MANVILLE

PART 2 PRODUCTS

1. MANUFACTURERS
- A. Johns Manville; JM TPO Fleece Backed Roofing Membrane: www.jm.com/#/sle.
2. MEMBRANE ROOFING

- A. Roof Assembly Performance Requirements:
- Solar Reflectance: Minimum 95 initial reflectance and minimum 85 reflectance after 3 years; calculated in accordance with ASTM E1980.
 - Use field-applied coating to achieve specified SRI.
 - Membrane: Thermoplastic polyolefin (TPO); comply with ASTM D6878/D6878M; sheet contains reinforcing fabrics or scrim.
 - Thickness: 45 mils, 0.045 inch (1.1 mm), minimum.
 - Width: Factory fabricated into widest possible sheets.
 - Installation: Adhered with adhesive.
 - Seaming Materials: As recommended by membrane manufacturer.

END OF SECTION 07.5423

SECTION 07.6200 - SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1. SECTION INCLUDES
- A. Fabricated sheet metal items, including sill flashings, base flashings and counterflashings.
- B. Coatings and Sealants as required sheet metal fabrications.
- C. Reglets, termination bars and accessories.
- D. Miscellaneous sheet metal accessories.
2. RELATED REQUIREMENTS
- A. Section 07.4213 Metal Wall Panels
- B. Section 07.9200 - Joint Sealants: Sealing non-lap joints between sheet metal fabrications and adjacent construction.
3. REFERENCE STANDARDS
- A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels; 2013.
- B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
- C. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.
- D. CDA A4050 - Copper in Architecture - Handbook; current edition.
- E. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.
4. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.
5. QUALITY ASSURANCE
- A. Perform work in accordance with SMACNA (ASMM) and CDA A4050 requirements and standard details, except as otherwise indicated.
- B. Fabricator and Installer Qualifications: Company specializing in sheet metal work with 5 years of documented experience.
6. DELIVERY, STORAGE, AND HANDLING
- A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- B. Store materials in a dry, protective, well-vented area. The contractor shall report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill.
- C. Prevent contact with materials that could cause discoloration or staining.
- D. Remove protective plastic surface film immediately after installation (if applicable).

PART 2 PRODUCTS

1. SHEET MATERIALS
- A. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 22 gauge ___ inch (___ mm) thick base metal, shop pre-coated with PVDF coating.
- PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic Finish, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system.
 - Color: As selected by Architect from manufacturer's standard colors.
- B. Stainless Steel: ASTM A666/A666M, Type 304, soft temper, 24 gauge ___ inch (___ mm) thick; smooth No. 4 finish.
2. ACCESSORIES
- A. Sealant Tape: Pressure sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, non sag, non toxic, non staining tape 1/2 inch wide and 1/8 inch thick.
- B. Sealant to be Concealed in Completed Work: Non-curing butyl sealant. ASTM C1311
3. FABRICATION
- A. General: Custom fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's Architectural Sheet Metal Manual that apply to design, dimensions, geometry, metal thickness and other characteristics of item indicated.
- Obtain field measurements to accurately fit before shop fabrication.
 - Form sheet metal flashing and trim without excessive oil canning, buckling, and tool marks. Form true to level and line and levels indicated, with exposed edges folded back to form hems.
 - Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces exposed to view.
- B. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- C. Form pieces in longest possible lengths.
- D. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.
- E. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- F. Fabricate corners from one piece with minimum 18 inch (450 mm) long legs; seam for rigidity, seal with sealant.
- G. Expansion Provisions: Where lapped expansion provisions cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.
- H. Fabricate Cleats and attachment devices from same material as accessory being anchored or from compatible, non corrosive material.
4. SHEET METAL FABRICATIONS
- A. Base Flashing: Pre finished galvanized steel: 20 gauge thick
- B. Counterflashing and Flashing Receivers: Prefinished galvanized steel: 22 gauge thick
- C. Sill flashings: Stainless Steel: 24 gauge thick
- D. Miscellaneous Flashing: Stainless Steel: 24 gauge thick

PART 3 EXECUTION

1. EXAMINATION
- A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and nailing strips located.
- B. Verify roofing termination and base flashings are in place, sealed, and secure.
2. PREPARATION
- A. Install starter and edge strips, and cleats before starting installation.
- B. Back paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil (0.4 mm).
3. INSTALLATION
- A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted..
- B. Apply plastic cement compound between metal flashings and felt flashings.
- C. Fit flashings tight in place; make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- D. Seal metal joints watertight.
- E. Secure gutters and downspouts in place with concealed fasteners.
- F. Slope gutters 1/4 inch per 10 feet (2.1 mm per m), minimum.
- G. Connect downspouts to downspout boots, and grout connection watertight.
4. FIELD QUALITY CONTROL
- A. See Section 01.4000 - Quality Requirements, for field inspection requirements.
- B. Inspection will involve surveillance of work during installation to ascertain compliance with specified requirements.

END OF SECTION 07.6200

DIVISION 08 - OPENINGS

SECTION 08.1113 - HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1. SECTION INCLUDES
- A. Non-fire-rated hollow metal doors and frames.
- B. Hollow metal frames for wood doors.
- C. Fire-rated hollow metal doors and frames.
- D. Thermally insulated hollow metal doors with frames.
- E. Accessories, including glazing, louvers, and matching panels.
2. RELATED REQUIREMENTS
- A. Section 08.7100 - Door Hardware.
- B. Section 09.9113 - Exterior Painting: Field painting.
- C. Section 09.9123 - Interior Painting: Field painting.
3. REFERENCE STANDARDS
- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors; 2011.
- C. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2014.
- D. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2011.
- E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
- F. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable; 2015.
- G. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2014.
- H. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames; 2014.
- I. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.
- J. ITS (DIR) - Directory of Listed Products; current edition.
- K. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames; 2002.
- L. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames; 2011.
- M. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; 2006.
- N. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2016.
- O. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2012.
- P. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames; 2013.
- Q. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.
- R. UL 100 - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
4. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes.
- C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and any indicated finish requirements.
- D. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.
5. QUALITY ASSURANCE
- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years documented experience.
- Provide hollow metal frames from SDI Certified manufacturer.
- B. Templates: The metal door and frame manufacturers shall obtain templates of all applicable hardware from the finish hardware supplier under the coordination of the Contractor and shall make all associated and proper provisions for the installation of hardware.
- C. Maintain at project site copies of reference standards relating to installation of products specified.

PART 2 PRODUCTS

1. MANUFACTURERS
- A. Hollow Metal Doors and Frames:
- Ceco Door, an Assa Abloy Group company; ____: www.assaabloydss.com/#sle.
 - Curries, an Assa Abloy Group company: www.assaabloydss.com.
 - Steelcraft, an Allegion brand: www.allegion.com/sle.
 - Substitutions: See Section 01.6000 - Product Requirements.
2. PERFORMANCE REQUIREMENTS
- A. Requirements for Hollow Metal Doors and Frames:
- Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
 - Accessibility: Comply with ICC A117.1 and ADA Standards.
 - Exterior Door Top Closures: Flush end closure channel, with top and door faces aligned.
 - Door Edge Profile: Manufacturers standard for application indicated.
 - Typical Door Face Sheets: Flush.
 - Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Manufacturers standard.
 - Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or BHMA A156.115 and ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
 - Zinc Coating for Typical Interior and/or Exterior Locations: Provide metal components zinc-coated (galvanized) and/or zinc-iron alloy-coated (galvannealed) by the hot-dip process in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness, unless noted otherwise for specific hollow metal doors and frames.
 - Based on SDI Standards: Provide at least A40/ZF120 (galvannealed) when necessary, coating not required for typical interior door applications, and at least A60/ZF180 (galvannealed) for corrosive locations.
- B. Hollow Metal Panels: Same construction, performance, and finish as doors.
- C. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.
3. HOLLOW METAL DOORS
- A. Door Finish: Factory primed and field finished.
- B. Exterior Doors: Thermally insulated.
- Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - Level.
 - Physical Performance; in accordance with ANSI/SDI A250.4.
 - Model 2 - Seamless.
 - Door Face Metal Thickness: 16 gage, 0.053 inch (1.3 mm), minimum.
 - Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M.
 - Core Material:
 - Door Thermal Resistance:
 - Door Thickness: 1-3/4 inch (44.5 mm), nominal.
 - Top Closures for Outswinging Doors: Flush with top of faces and edges.
 - Door Face Sheets: Flush.
 - Weatherstripping: Refer to Section 08.7100.
- C. Interior Doors, Non-Fire Rated:
- Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - Level 2 - Heavy-duty.
 - Physical Performance Level B 500 000 cycles; in accordance with ANSI/SDI A250.4.
 - Model 1 - Full Flush.
 - Door Face Metal Thickness: 18 gage, 0.042 inch (1.0 mm), minimum.
 - Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M.
 - Core Material: Kraftpaper honeycomb.
 - Door Thickness: 1-3/4 inch (44.5 mm), nominal.
- D. Fire-Rated Doors:
- Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - Level 2 - Heavy-duty.
 - Physical Performance Level B 500 000 cycles; in accordance with ANSI/SDI A250.4.
 - Model 1 - Full Flush.
 - Door Face Metal Thickness: 18 gage, 0.042 inch (1.0 mm), minimum.
 - Fire Rating: As indicated on Door Schedule, tested in accordance with UL 10C and NFPA 252 ("positive pressure fire tests")
 - Provide units listed and labeled by UL (DIR) or ITS (DIR).
 - Attach fire rating label to each fire rated unit.
 - Door Core Material: Manufacturers standard core material/construction in compliance with requirements.
 - Door Thickness: 1-3/4 inch (44.5 mm), nominal.

HOLLOW METAL FRAMES

- A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.
- B. Frame Finish: Factory primed and field finished.
- C. Exterior Door Frames: Full profile/continuously welded type.
- Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A60/ZF180 coating.
 - Frame Metal Thickness: 16 gage, 0.053 inch (1.3 mm), minimum.
 - Weatherstripping: Separate, see Section 08.7100.
- D. Interior Door Frames, Non-Fire Rated: Face welded type.
- Frame Metal Thickness: 18 gage, 0.042 inch (1.0 mm), minimum.
- E. Door Frames, Fire-Rated: Face welded type.
- Fire Rating: Same as door, labeled.

- Frame Metal Thickness: 16 gage, 0.053 inch (1.3 mm), minimum.
- Transom Bars: Fixed, of profile same as jamb and head unless otherwise shown in drawings.
- Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.
- Frames in Masonry Walls: Size to suit masonry coursing with head member to fill opening without cutting masonry units.
- Anchors: Provide a minimum of three (3) metal anchors at each jamb for frames up to 7'-4" in height and a minimum of five (5) metal anchors for all taller frames.
- Provide "T" types anchors at masonry walls.
 - Provide manufacturers recommended anchors at stud framing.
- Hardware Reinforcing: Weld to inner surface of jambs and provide cover boxes behind all hardware cut outs:
- High reinforcements to be per referenced standards but no less than 8 gauge min.
 - Balance of reinforcement to be per referenced standards but no less than 12 gauge min.
- Frames Wider than 24 Inches (609 mm): Reinforce with steel channel fitted tightly into frame head, flush with top.
- Frames Installed Back-to-Back: Reinforce with steel channels with steel channels anchored to floor and overhead structure.
5. FINISHES
- A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.
6. ACCESSORIES
- A. Louvers: Roll formed steel with overlapping frame; finish same as door components ; factory-installed.
- In Fire-Rated Doors: UL (DIR) or ITS (DIR) listed fusible link louver, same rating as door.
 - Style: ____.
 - Fasteners: Exposed, tamper proof fasteners.
- B. Glazing: As specified in Section 08.8000.
- C. Removable Stops: Formed sheet steel, shape as indicated on drawings, butted corners; prepared for countersink style tamper proof screws.
- D. Grout for Frames: Portland cement grout with maximum 4 inch (102 mm) slump for hand troweling; thinner pumpable grout is prohibited.
- E. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.
- F. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

PART 3 EXECUTION

1. EXAMINATION
- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Verify that finished walls are in plane to ensure proper door alignment.
2. PREPARATION
- A. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation.
3. INSTALLATION
- A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.
- B. Install fire rated units in accordance with NFPA 80.
- C. Coordinate frame anchor placement with wall construction.
- D. Grout frames in masonry construction, using hand trowel methods; brace frames so that pressure of grout before setting will not deform frames.
- E. Install door hardware as specified in Section 08.7100.
- F. Comply with glazing installation requirements of Section 08.8000.
- G. Coordinate installation of electrical connections to electrical hardware items if provided.
- H. Touch up damaged factory finishes.
4. TOLERANCES
- A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated in accordance with SDI 117 or NAAMM HMMA 861.
- B. Maximum Diagonal Distortion: 1/16 inch (1.6 mm) measured with straight edge, corner to corner.
- A. Adjust for smooth and balanced door movement.
6. SCHEDULE - SEE DRAWINGS
- END OF SECTION 08.1113

SECTION 08.4313 - ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

1. SECTION INCLUDES
- A. Aluminum-framed storefront, with vision glass.
- B. Infill panels of metal and glass.
- C. Aluminum doors and frames.
- D. Weatherstripping.
- E. Door hardware.
2. RELATED REQUIREMENTS
- A. Section 08.4229 - Automatic Entrances.
- B. Section 08.4413 - Glazed Aluminum Curtain Walls.
- C. Section 08.7100 - Door Hardware: Hardware items other than specified in this section.
- D. Section 08.8000 - Glazing: Glass and glazing accessories.
3. REFERENCE STANDARDS
- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2012.
- B. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels; 2013.
- C. AAMA CW-10 - Care and Handling of Architectural Aluminum From Shop to Site; 2015.
- D. ASCE 7 - Minimum Design Loads for Buildings and Other Structures; 2010, with 2013 Supplements and Errata.
- E. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2014.
- F. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2015.
- G. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.
- H. ASTM B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate [Metric]; 2014.
- I. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
- J. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes [Metric]; 2013.
- K. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2004 (Reapproved 2012).
- L. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014.
- M. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2009).
- N. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); 2002 (Ed. 2004).
4. ADMINISTRATIVE REQUIREMENTS
- A. Coordinate with installation of other components that comprise the exterior enclosure.
- B. Preinstallation Meeting: Conduct a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.
5. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, internal drainage details and any other items listed in this section or required for a complete installation.
- C. Shop Drawings: Provide plans, elevations, sections, details and attachments to other work. Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion and contraction joint location and details, drainage requirements and field welding required.
- D. Samples: Submit two samples 12 by 12 inches (305 by 305 mm) in size illustrating finished aluminum surface, glass, infill panels, glazing materials.
- E. Manufacturer's Certificate: Certify that the products supplied meet or exceed the specified requirements.
- F. Design Data: Provide framing member structural and physical characteristics, engineering calculations, and dimensional limitations.
- G. Hardware Schedule: Complete itemization of each item of hardware to be provided for each door, cross-referenced to door identification numbers in Contract Documents.
- H. Installer's Qualification Statement.
- I. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.
6. QUALITY ASSURANCE
- A. Source Control: Provide all items from a single manufacturer.
- B. Designer Qualifications: Design structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in the State in which the Project is located.
- C. Manufacturer Qualifications: Company specializing in performing work of type specified and with at least ten years of documented experience.



BRANDON BIG ROOM RENOVATION - PHASE 03 CITY OF BRANDON

1000 Municipal Dr.
Brandon, MS 39042



7/17/2026

100% CONSTRUCTION DOCUMENTS

WBA # 24-04.02

REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26





BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON
1000 Municipal Dr,
Brandon, MS 39042

3. INSTALLATION - GENERAL
- A. Starting installation constitutes acceptance of subfloor conditions.
- B. Install in accordance with manufacturer's written instructions.
- C. Spread only enough adhesive to permit installation of materials before initial set.
- D. Fit joints and butt seams tightly.
- E. Set flooring in place, press with heavy roller to attain full adhesion.
- F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
- G. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
- H. Scribe flooring to walls, columns, cabinets, floor outlets, and other apertures to produce tight joints.
4. CLEANING
- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean in accordance with manufacturer's written instructions.
5. PROTECTION
- A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION 09.6500

SECTION 09.9113 - EXTERIOR PAINTING

- PART 1 GENERAL**
1. SECTION INCLUDES
- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
2. Exposed surfaces of steel lintels and ledge angles.
3. Mechanical and Electrical:
- a. On the roof and outdoors, paint equipment that is exposed to weather or to view, including factory-finished materials.
- D. Do Not Paint or Finish the Following Items:
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
5. Non-metallic roofing and flashing.
6. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and lead.
7. Marble, granite, slate, and other natural stones.
8. Floors, unless specifically indicated.
9. Ceramic and other types of tiles.
10. Brick, glass unit masonry, architectural concrete, cast stone, integrally colored plaster and stucco.
11. Exterior insulation and finish system (EIFS).
12. Glass.
13. Concrete masonry units in utility, mechanical, and electrical spaces.
14. Concealed pipes, ducts, and conduits.
2. RELATED REQUIREMENTS
- A. Section 01.6116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 05.5000 - Metal Fabrications: Shop-primed items.
- C. Section 05.5100 - Metal Stairs: Shop-primed items.
- D. Section 09.9123 - Interior Painting.
- E. Section 09.9600 - High-Performance Coatings.
- F. Section 32.1723.13 - Painted Pavement Markings: Painted pavement markings.
3. DEFINITIONS
- A. Comply with ASTM D16 for interpretation of terms used in this section.
4. REFERENCE STANDARDS
- A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2014.
- B. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials; 2007.
- C. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition, www.paintinfo.com.
- D. SSPC-SP 1 - Solvent Cleaning; 2015.
- E. SSPC-SP 2 - Hand Tool Cleaning; 1982 (Ed. 2004).
- F. SSPC-SP 6 - Commercial Blast Cleaning; 2007.
- G. SSPC-SP 13 - Surface Preparation of Concrete; (Reaffirmed 2015); 2003.
5. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number (e.g. MPI #47).
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
4. Full and complete color charts for all paint systems specified.

6. QUALITY ASSURANCE
- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum ten years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum five years documented experience and approved by manufacturer.
7. DELIVERY, STORAGE, AND HANDLING
- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.
8. FIELD CONDITIONS
- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 50 degrees F (10 degrees C) for exterior; unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

- PART 2 PRODUCTS**
1. MANUFACTURERS
- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
1. Base Manufacturer: Benjamin Moore & Co..
2. Pittsburgh Paints: _____. www.ppgpaints.com/#sle.
3. Sherwin-Williams Company: _____. www.sherwin-williams.com/#sle.
- C. Primer Sealers: Same manufacturer as top coats.
2. PAINTS AND FINISHES - GENERAL
- A. Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Supply each paint material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
3. PAINT SYSTEMS - EXTERIOR
- A. Paint E-OP - Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including concrete, brick, and fiber cement siding.
1. One coat primer: [Benjamin Moore Fresh Start Multi Purpose Primer (N023)].
2. Top Coat(s): Two coats of Exterior Latex.
- a. At Brick and Concrete: Benjamin Moore Ultra Spec Exterior Satin (N448); MPI #15.
- b. At Fiber Cement: Benjamin Moore Ultra Spec Exterior Gloss (N449); MPI #11.
- B. Paint WE-OP-3L - Wood, Opaque, Latex, 3 Coat:
1. One coat of latex primer sealer: Benanin Moore Fresh Start Multi Purpose Primer (N023); MPI #6, #17, #39, #137.
2. Gloss: Two coats of latex enamel; Benjamin Moore Ultra Spec Exterior Gloss (N449); MPI #11.
- C. Paint CE-OP-2L - Masonry Concrete, Opaque, Latex, 2 Coat:
1. One coat sealer: Texcrete WB Texture Waterproofor Sand Texture (3192); MPI #42.
2. Semi-gloss: One coat of latex enamel; Texcrete WB Texture Waterproofor Sand Texture (3192); MPI #42.
- D. Paint ME-OP-2A - Ferrous Metals, Primed, Alkyd, 3 Coat:

1. Touch-up with rust-inhibitive primer; Benjamin Moore Alkyd Metal Primer (P06); MPI #97.
2. Gloss: Three coats of alkyd enamel; Benjamin Moore Super Spec Urethane Alkyd Gloss Enamel (P22); MPI #9, #48.
- E. Paint MgE-OP-3A - Galvanized Metals, Alkyd, 3 Coat:
1. One coat galvanize primer; Benjamin Moore Acrylic Primer (P04); MPI #107, #134.
2. Gloss: Two coats of alkyd enamel; Benjamin Moore Super Spec Urethane Alkyd Gloss Enamel (P22); MPI #9, #48.
4. ACCESSORY MATERIALS
- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.
- B. Patching Material: Latex filler.
- C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

1. EXAMINATION
- A. Do not begin application of paints and finishes until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
- D. Test shop-applied primer for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
1. Exterior Plaster and Stucco: 12 percent.
2. Fiber Cement Siding: 12 percent.
3. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
4. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.
2. PREPARATION
- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or repair existing paints or finishes that exhibit surface defects.
- D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- E. Seal surfaces that might cause bleed through or staining of topcoat.
- F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. Concrete:
1. Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
2. Clean surfaces with pressurized water. Use pressure range of 1,500 to 4,000 psi (10,350 to 27,580 kPa) at 6 to 12 inches (150 to 300 mm). Allow to dry.
3. Clean concrete according to ASTM D4258. Allow to dry.
4. Prepare surface as recommended by top coat manufacturer and according to SSPC-SP 13.
- H. Masonry:
1. Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
2. Prepare surface as recommended by top coat manufacturer.
3. Clean surfaces with pressurized water. Use pressure range of 600 to 1,500 psi (4,140 to 10,350 kPa) at 6 to 12 inches (150 to 300 mm). Allow to dry.
- I. Fiber Cement Siding: Remove dirt, dust and other foreign matter with a stiff fiber brush. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
- J. Exterior Plaster: Fill hairline cracks, small holes, and imperfections with exterior patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- K. Aluminum: Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
- L. Copper: Remove contamination by steam, high pressure water, or solvent washing.
- M. Galvanized Surfaces:
1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
2. Prepare surface according to SSPC-SP 2.
- N. Ferrous Metal:
1. Solvent clean according to SSPC-SP 1.
2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces.
3. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.
- O. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior calking compound after prime coat has been applied. Back prime concealed surfaces before installation.
- P. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with tinted primer.
- Q. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.
3. APPLICATION
- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.
- C. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- E. Apply each coat to uniform appearance.
- F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply additional coats until complete hide is achieved.
- G. Sand wood and metal surfaces lightly between coats to achieve required finish.
- H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- I. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.
4. CLEANING
- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
5. PROTECTION
- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION 09.9113

SECTION 09.9123 - INTERIOR PAINTING

- PART 1 GENERAL**
1. SECTION INCLUDES
- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
1. Mechanical and Electrical:
- a. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.
- b. In finished areas, paint shop-primed items.
2. DEFINITIONS
- A. Comply with ASTM D16 for interpretation of terms used in this section.
3. REFERENCE STANDARDS
- A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2014.
- B. ASTM D4258 - Standard Practice for Surface Cleaning Concrete for Coating; 2005 (Reapproved 2012).
- C. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials; 2007.
- D. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition, www.paintinfo.com.
- E. SSPC-SP 1 - Solvent Cleaning; 2015.
- F. SSPC-SP 2 - Hand Tool Cleaning; 1982 (Ed. 2004).
- G. SSPC-SP 13 - Surface Preparation of Concrete; (Reaffirmed 2015); 2003.
4. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number (e.g. MPI #47).
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
4. Full and complete color charts for all paint systems specified.
5. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum ten years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum five years documented experience and approved by manufacturer.
6. DELIVERY, STORAGE, AND HANDLING
- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.
7. FIELD CONDITIONS
- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply materials when relative humidity exceeds 85 percent; at temperatures less than 5 degrees F (3 degrees C) above the dew point; or to damp or wet surfaces.
- D. Minimum Application Temperatures for Paints: 50 degrees F (10 degrees C) for interiors unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

1. MANUFACTURERS
- A. Provide paints and finishes from the same manufacturer unless otherwise noted below.
1. In the event that a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.
2. Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.
3. Substitution of a different paint system using MPI-approved products by the same manufacturer will be considered.
- B. Paints:
1. Base Manufacturer: Benjamin Moore & Co..
2. Or equal as described above.
- C. Primer Sealers: Same manufacturer as top coats.
2. PAINTS AND FINISHES - GENERAL
- A. Paints and Finishes: Ready mixed, unless intended to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Supply each paint material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
3. PAINT SYSTEMS - INTERIOR
- A. Paint I-OP - Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board, wood, uncoated steel, shop primed steel, galvanized steel, and aluminum.
1. Two top coats and one coat primer.
2. Top Coat(s): High Performance Architectural Interior Latex; MPI #138, 139, 140, or 141.
3. Top Coat Sheen:
- a. match existing.
- B. Paint I-OP-MD-DT - Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metals and wood:
1. Two top coats and one coat primer.
2. Top Coat(s): Interior Epoxy-Modified Latex; MPI #115 or 215.
3. Top Coat Sheen:
- a. Match Existing.
- C. Paint I-OP-DF - Dry Fall: Metals; exposed structure and overhead-mounted services, including shop primed steel deck, structural steel, and galvanized conduit.
1. Shop primer by others.
2. One top coat Benjamin Moore SK Dry Fall Flat (N110); MPI #118.
- D. Paint I-OP-FL - Concrete Floors, Latex (Where Indicated):
1. Two top coats and one coat primer.
2. Top Coat(s): Alkyd Floor Enamel, Gloss; MPI #27.
- a. Products:
- 1) Pittsburgh Paints Floor and Porch Enamel WB Alkyd, 3-610 Series, Gloss.
- 2) Substitutions: Section 01.6000 - Product Requirements.
- E. Paint I-TR-C - Transparent Finish on Concrete Floors.
1. Sealer: Water Based Sealer for Concrete Floors; MPI #99.
- a. Products:
- 1) Behr Premium Wet-Look Sealer High Gloss [No. 985] (MPI #99)
- 2) Pittsburgh Paints: 4-6200XI Perma-Crete Plex-Seal WB Interior/Exterior Clear Sealer Satin. (MPI #99)
- 3) Sherwin-Williams H&C Clearshield Water-Based Wet-Look Concrete Sealer. (MPI #99)
- 4) Substitutions: Section 01.6000 - Product Requirements.
4. ACCESSORY MATERIALS
- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

PART 3 EXECUTION

1. EXAMINATION
- A. Do not begin application of paints and finishes until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
- D. Test shop-applied primer for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
1. Gypsum Wallboard: 12 percent.
2. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
2. PREPARATION
- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or repair existing paints or finishes that exhibit surface defects.
- D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
- E. Seal surfaces that might cause bleed through or staining of topcoat.
- F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. Concrete:
1. Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
2. Clean surfaces with pressurized water. Use pressure range of 1,500 to 4,000 psi (10,350 to 27,580 kPa) at 6 to 12 inches (150 to 300 mm). Allow to dry.
3. Clean concrete according to ASTM D4258. Allow to dry.
4. Prepare surface as recommended by top coat manufacturer and according to SSPC-SP 13.
- H. Gypsum Board: Fill minor defects with filler compound. Spot prime defects after repair.
- I. Galvanized Surfaces:
1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
2. Prepare surface according to SSPC-SP 2.
- J. Ferrous Metal:
1. Solvent clean according to SSPC-SP 1.
2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
3. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.
3. APPLICATION
- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- C. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- D. Apply each coat to uniform appearance in thicknesses specified by manufacturer.
- E. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.

- F. Sand wood and metal surfaces lightly between coats to achieve required finish.
- G. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- H. Reinstall electrical cover plates, hardware, machinery, light fixture trim, escutcheons, and fittings removed prior to finishing.
4. CLEANING
- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
5. PROTECTION
- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION 09.9123

DIVISION 10 - SPECIALTIES

SECTION 10.1400 - SIGNAGE

PART 1 GENERAL

1. SECTION INCLUDES
- A. Room and door signs.
- B. Dimensional letter signage - Reverse channel lettering - Back-lit
2. REFERENCE STANDARDS
- A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- C. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.
- PART 2 PRODUCTS**
1. MANUFACTURERS
- A. Flat Signs:
1. Mohawk Sign Systems, Inc.; _____. www.mohawksign.com/#sle.
- B. Reverse channel lettering - Back-lit; see drawings
1. A.R.K. Ramos Architectural Signage Systems; Cut Aluminum Letters: www.ar Ramos.com/#sle.
2. SIGNAGE APPLICATIONS
- A. Accessibility Compliance: Signs are required to comply with ADA Standards and ICC A117.1 _____, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.
3. SIGN TYPES
- A. Color and Font: Unless otherwise indicated:
1. Character Font: TO BE DETERMINED FROM MANUFACTURES STANDARD OPTIONS.
2. Character Case: Upper case only.
3. Background Color: TO BE DETERMINED FROM MANUFACTURES STANDARD OPTIONS.
4. Character Color: TO BE DETERMINED FROM MANUFACTURES STANDARD OPTIONS color.
5. Location: See Drawings
- B. BACK-LIT DIMENSIONAL LETTERING
1. Finish: Backed on enamel.
- C. FLAT SIGNS - MOHAWK 1000 ADA SIGN SYTEM
1. Finish: Standard Manufacture Option. Match Existing

END OF SECTION 10.1400

SECTION 10.2800 - TOILET, BATH, AND LAUNDRY ACCESSORIES - ASI

PART 1 GENERAL

1. RELATED REQUIREMENTS
- A. Section 09.2116 - Gypsum Board Assemblies: Placement of wood blocking, steel sheet blocking, and backing plates in stud wall construction for attachment of accessories.
2. REFERENCE STANDARDS
- A. ASTM C1036 - Standard Specification for Flat Glass; 2011.
- PART 2 PRODUCTS**
1. MANUFACTURERS
- A. KOHLER, Inc. www.kohler.com
- B. Equivalent Manufacturers
2. GRAB BARS
- A. Grab Bars: Type 304 stainless steel.
1. Standard Duty Grab Bars: See plumbing accessory legend on sheet A108
- a. Push/Pull Point Load: 250 lbf (1112 N), minimum.
- b. Clearance: 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
- c. Length and Configuration: As indicated in product listing.
3. HOSPITALITY ACCESSORIES
- A. Robe Hook: Heavy-duty stainless steel, single-prong, circular-shaped bracket and backplate for concealed attachment, satin finish.
1. Products: Kohler Elate K-27290-BLL
4. MIRRORS
- A. Mirrors: Stainless steel framed, 1/4 inch (6 mm) thick annealed float glass, ASTM C1036.
1. Products: Kohler Essentials K-31364-BLL
5. PAPER TOWEL COMBINATION UNITS
- A. Combination Towel Dispenser/Waste Receptacle: Stainless steel; seamless wall flanges, continuous heavy-duty stainless steel multi-staked piano hinges, tumblers locks on upper and lower doors.
6. SECURITY ACCESSORIES
- A. Shower Rod and Curtain:
1. Products: Kohler Elate K-33810-BL
7. SHELVES
- A. Stainless Steel Shelves:
1. Products: Schluter-shelf-E Wave, SES1 D10 EB
8. SHOWER AND TUB ACCESSORIES
- A. Shower Curtain:
- B. Shower Seat: Wall-mounted; welded tubular seat frame, structural support members, swing-down legs, hinges, and mechanical fasteners of Type 304 stainless steel, rectangular seat.
1. Products: Bradley - wall mount - phenolic or equal (34 1/2" MAX - 24" min - width)
9. SOAP AND HAND SANITIZER DISPENSERS
- A. Soap Dispenser: Liquid soap dispenser, deck-mounted on vanity, with polyethylene container concealed below deck; piston and 4 inch (100 mm) spout of stainless steel with bright polished finish; chrome-plated deck escutcheon.
10. TOILET TISSUE DISPENSERS
- A. Toilet Tissue Holder: Recessed or surface-mounted.
1. Products: Kohler Elate K-27291-BL
11. MATERIALS
- A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
12. FINISHES

END OF SECTION 10.2800

SECTION 10.4400 - FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1. REFERENCE STANDARDS
- A. NFPA 10 - Standard for Portable Fire Extinguishers; 2013.
2. SUBMITTALS
- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide extinguisher operational features.
- C. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.
- PART 2 PRODUCTS**

1. FIRE EXTINGUISHERS
- A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
- B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
1. Class: A-B-C type.
2. Temperature range: Minus 40 degrees F (Minus 40 degrees C) to ____ degrees F (____ degrees C).
2. FIRE EXTINGUISHER CABINETS

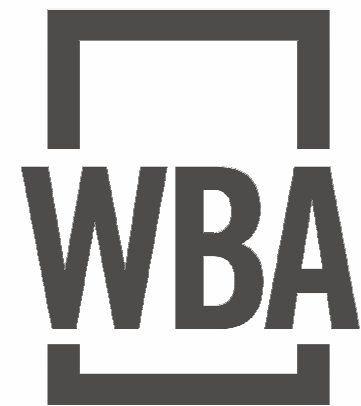


7/17/2026

100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2

REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26

R308
SPECIFICATIONS -
PHASE 03



- A. Cabinet Construction: Non-fire rated.

1. Formed primed steel sheet: 0.036 inch (0.9 mm) thick base metal.

B. Cabinet Configuration: Semi-recessed type.

C. Door: 0.036 inch (0.9 mm) metal thickness, reinforced for flatness and rigidity with nylon catch. Hinge doors for 180 degree opening with two butt hinge.

D. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.

E. Finish of Cabinet Exterior Trim and Door: No. 4 - Brushed stainless steel.

F. Finish of Cabinet Interior: White colored enamel.

3. ACCESSORIES

A. Extinguisher Brackets: Formed steel, chrome-plated.

PART 3 EXECUTION

1. INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install cabinets plumb and level in wall openings, ____ inches (____ mm) from finished floor to inside bottom of cabinet.

C. Secure rigidly in place.

D. Place extinguishers in cabinets.

END OF SECTION
- 1

SECTION 10.731613 - METAL CANOPY SYSTEMS

- PART 1: GENERAL

1. 1.1 DESCRIPTION OF WORK

A. 1. Work in this section includes furnishing and installation of extruded aluminum walkway canopies or extruded aluminum wall-supported canopies as manufactured by Mapes Industries Inc.

2. 2. RELATED ITEMS AND CONSIDERATIONS

A. 1. Flashing of various designs may be required. Generic flashing supplied by Mapes. Specialty flashing to be supplied by installer.

1. 2. Determine wall construction, make-up and thickness.

2. 3. Ensure adequate wall condition to carry canopy loads where required.

3. 4. Consider water drainage away from canopy where necessary.

4. 5. Any necessary removal or relocation of existing structures, obstructions or materials.

3. 1.2 QUALITY ASSURANCE

A. 1. Products meeting these specifications established standard of quality required as manufactured by Mapes Industries, Inc. Lincoln, Nebraska 1-888-273-1132.

4. 1.3 FIELD MEASUREMENT

1. CONFIRM DIMENSIONS PRIOR TO PREPARATION OF SHOP DRAWINGS WHEN POSSIBLE.

2. IF REQUESTED, SUPPLY MANUFACTURER S STANDARD LITERATURE AND SPECIFICATIONS FOR CANOPIES. 3. SUBMIT SHOP DRAWINGS SHOWING STRUCTURAL COMPONENT LOCATIONS/POSITIONS, MATERIAL DIMENSIONS AND DETAILS OF CONSTRUCTION AND ASSEMBLY.

1.4 PERFORMANCE REQUIREMENTS

1. CANOPY MUST CONFORM TO LOCAL BUILDING CODES.

A. 2. PE Stamped calculations are required and must be signed and sealed by an engineer licensed within the state canopy is installed.

9. 1.5 DELIVER, STORAGE, HANDLING

10. 1. DELIVER AND STORE ALL CANOPY COMPONENTS IN PROTECTED AREAS.

PART 2: PRODUCTS

1. BASIS OF DESIGN MANUFACTURER

1. MAPES CANOPIES

1. Lincoln, Nebraska

2. Phone: 1-888-273-1132.

3. Fax: 1-877-455-6572.

B. Equivalent Manufacturers

3. 2.2 MATERIALS

1. DECKING SHALL CONSIST OF A 2 3/4" EXTRUDED .078" DECKING.

2. BEAMS SHALL BE 4"X7".

3. POSTS SHALL BE 4"X4".

4. FASCIA SHALL BE STANDARD EXTRUDED 8" J STYLE.

2.3 FINISHES

1. FINISH TYPE SHALL BE 2-COAT KYNAR FINISH.

10. 2.4 FABRICATION

A. 1. Support columns and gutter beams shall be designed such that the columns will be notched to create a "saddle" that will receive and secure the gutter beams.

B. 2. Post and beams shall be mechanically assembled utilizing 3/16" fasteners with a minimum shear stress of 350 lb. Pre-welded or factory-welded connections are not acceptable.

C. 3. Concealed drainage. Water shall drain from covered surfaces into intermediate trough and be directed to Standard Post Drain.

PART 3: EXECUTION

1. 3.1 INSPECTION

1. CONFIRM THAT SURROUNDING AREA IS READY FOR THE CANOPY INSTALLATION.

2. INSTALLER SHALL CONFIRM DIMENSIONS AND ELEVATIONS TO BE AS SHOWN ON DRAWINGS PROVIDED BY MAPES INDUSTRIES. 3. ERECTION SHALL BE PERFORMED BY AN APPROVED INSTALLER AND SCHEDULED AFTER ALL CONCRETE, MASONRY AND ROOFING IN THE AREA IS COMPLETED

3.2 INSTALLATION

A. 1. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection.

3.3 AFTER INSTALLATION, ENTIRE SYSTEM SHALL BE LEFT IN A CLEAN CONDITION.

END OF SECTION 10.731613

1
- DIVISION 12 - FURNISHINGS
- SECTION 12.3600 - COUNTERTOPS
- PART 2 PRODUCTS

1. COUNTERTOPS

A. Natural Quartz and Resin Composite Countertops: Sheet or slab of natural quartz and plastic resin over continuous substrate.

1. Flat Sheet Thickness: 1-1/4 inch (32 mm), minimum.

2. Natural Quartz and Resin Composite Sheets, Slabs and Castings: Complying with ISFA 3-01 and NEMA LD 3; orthophthalic polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard stone fabrication tools; no surface coating; color and pattern consistent throughout thickness.

a. Manufacturers:

1) Cambria Company LLC; ____; www.cambriausa.com/#sle.

b. Factory fabricate components to the greatest extent practical in sizes and shapes indicated; comply with NSI (DSDM).

c. Finish on Exposed Surfaces: Polished.

d. Color and Pattern: As indicated on drawings.

3. Other Components Thickness: 3/4 inch (19 mm), minimum.

4. Back and End Splashes: Same sheet material, square top; minimum 4 inches (102 mm) high.

END OF SECTION 12.3600
-
- 7/17/2026
- 100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2
- | REVISIONS | | |
|-----------|-------------|---------|
| NO. | DESCRIPTION | DATE |
| 1 | Revision 01 | 8.12.26 |
- R309
SPECIFICATIONS -
PHASE 03



GEN. NOTES - DEMOLITION

A. ALL INFORMATION IS BASED ON FIELD OBSERVATIONS & OWNER SUPPLIED DOCUMENTS & MAY NOT REFLECT ACTUAL FIELD CONDITIONS. UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN DRAWINGS DEPICTING EXIST. CONDITIONS OR UPON DISCOVERY OF UNKNOWN CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK AS INDICATED IN THE DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT, IN WRITING, OF THE CONDITION IN QUESTION BEFORE PROCEEDING WITH WORK IN THAT AREA.

B. SALVAGE IS DEFINED AS CAREFULLY REMOVING & RETAINING ITEMS FOR REUSE. FURTHER EVALUATION OF CERTAIN ITEMS IN TERMS OF SALVAGE DESIRABILITY MAY OCCUR PRIOR TO CONSTRUCTION.

C. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING & BRACING NECESSARY TO MAINTAIN INTEGRITY OF EXIST. STRUCTURE AT ALL TIMES.

D. IF ANY EXIST. FIREPROOFING OR ASSEMBLIES WHICH ARE INDICATED TO REMAIN ARE DAMAGED DURING DEMOLITION THE CONTRACTOR SHALL REPAIR DAMAGE TO THE LEVEL OF THE ORIGINAL FIRE PROTECTION REQUIREMENTS.

E. CARE SHALL BE TAKEN AT INTERFACE BETWEEN DEMOLITION & EXIST. CONSTRUCTION TO REMAIN TO AVOID DAMAGE TO ALL SYSTEMS TO REMAIN. ALL EXIST. CONSTRUCTION REMAINING AFTER DEMOLITION THAT INTERFERES WITH NEW CONSTRUCTION SHALL BE REMOVED AS DIRECTED BY THE ARCHITECT UPON NOTIFICATION BY THE CONTRACTOR.

G. REMOVE EXIST. CONSTRUCTION AS INDICATED. THE TYPICAL WALL REMOVAL INCLUDES FINISHES & MECHANICAL, PLUMBING & ELECTRICAL SYSTEMS CONTAINED THEREIN. REMOVE ALL WALLCOVERING @ WALLS TO REMAIN & PREP FOR PAINT WITHIN EXTENTS OF PHASE. REMOVE ALL WALL BASE. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, & OTHER FIXTURES AS REQUIRED. REMOVE ALL WINDOW COVERINGS IN THEIR ENTIRETY. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN FLOORS OR EXIST. WALLS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION & STRUCTURAL REQUIREMENTS. PATCH ADJOINING WALLS, FLOORS & DECK & PREPARE SURFACES TO RECEIVE A NEW FINISH AS PER FINISH SCHEDULE. REMOVE ALL REMAINING MORTAR / SETTING BEDS & RESIDUE FROM EXIST. FLOORING SURFACES.

H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXIST. SUBSTRATE CORRECTION IN ALL AREAS WHERE MECHANICAL, PLUMBING & ELECTRICAL EQUIP. & SERVICES ARE REMOVED.

I. IT IS INTENDED THAT REMOVAL OF ALL MAJOR MECHANICAL, PLUMBING & ELECTRICAL ITEMS BE COMPLETED BY THEIR RESPECTIVE TRADES. ALL ITEMS TO BE REMOVED ARE NOT NECESSARILY SHOWN ON THESE DOCUMENTS. ONCE REMOVAL OF MAJOR ITEMS IS COMPLETED BY RESPECTIVE TRADES, THE REMAINING ITEMS ARE TO BE REMOVED BY THE GENERAL CONTRACTOR.

J. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES & ORDINANCES AS SET FORTH BY ALL GOVERNING AUTHORITIES.

K. THE CONTRACTOR SHALL NOTIFY, COORDINATE, SCHEDULE & RECEIVE PRIOR PERMISSION FROM THE OWNER IF ANY SHUTDOWN OF SERVICES IS NECESSARY TO COMPLETE THE WORK. NOTIFICATION SHALL INCLUDE THE TYPE OF SERVICE AREA AFFECTED, REQUESTED SHUTDOWN TIME, LENGTH OF TIME, SERVICE TO BE DISCONNECTED & PROPOSED RECONNECTION TIME. PROVIDE MIN. 48-HOURS WRITTEN NOTICE TO OWNER FOR ALL SCHEDULED SHUT-DOWNS. DO NOT PERFORM UTILITY SHUT-DOWNS WITHOUT THE OWNERS WRITTEN CONSENT. COORDINATE WORK RELATED TO SHUT-DOWN TO MINIMIZE UTILITY DOWN-TIME. THE OWNER SHALL REQUIRE ALL UTILITY SHUT-DOWNS TO BE PERFORMED AT NON-PEAK DEMAND TIMES. THE OWNER MAY REQUIRE UTILITY SHUT-DOWNS TO BE PERFORMED AFTER NORMAL BUSINESS HOURS.

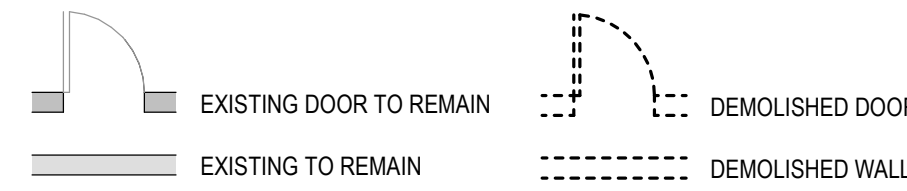
L. ALL OPENINGS, GAPS & VOIDS IN EXIST. CONSTRUCTION LEFT OR UNCOVERED BY DEMOLITION ARE TO BE FILLED USING MATERIALS THAT MATCH SIZE & CONFIGURATION OF ADJACENT EXIST. CONSTRUCTION UNLESS OTHERWISE NOTED HEREIN & AS APPROVED BY THE ARCHITECT.

M. CONTRACTOR SHALL MAINTAIN ADEQUATE EGRESS AT ALL TIMES.

N. SEE HAZARDOUS MATERIAL INSPECTION REPORTS & ABATEMENT SPECIFICATION DIAGRAMS FOR EXTENT OF ACM. & LBP. TO BE ABATED.

O. WHERE EXISTING CEILINGS ARE TO BE DEMOLISHED, DEMOLISH CEILING IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO, SUSPENDED CEILING ASSEMBLIES, DIRECT MOUNT CEILING ASSEMBLIES, LIGHTING FIXTURES, & MECH. GRILLES.

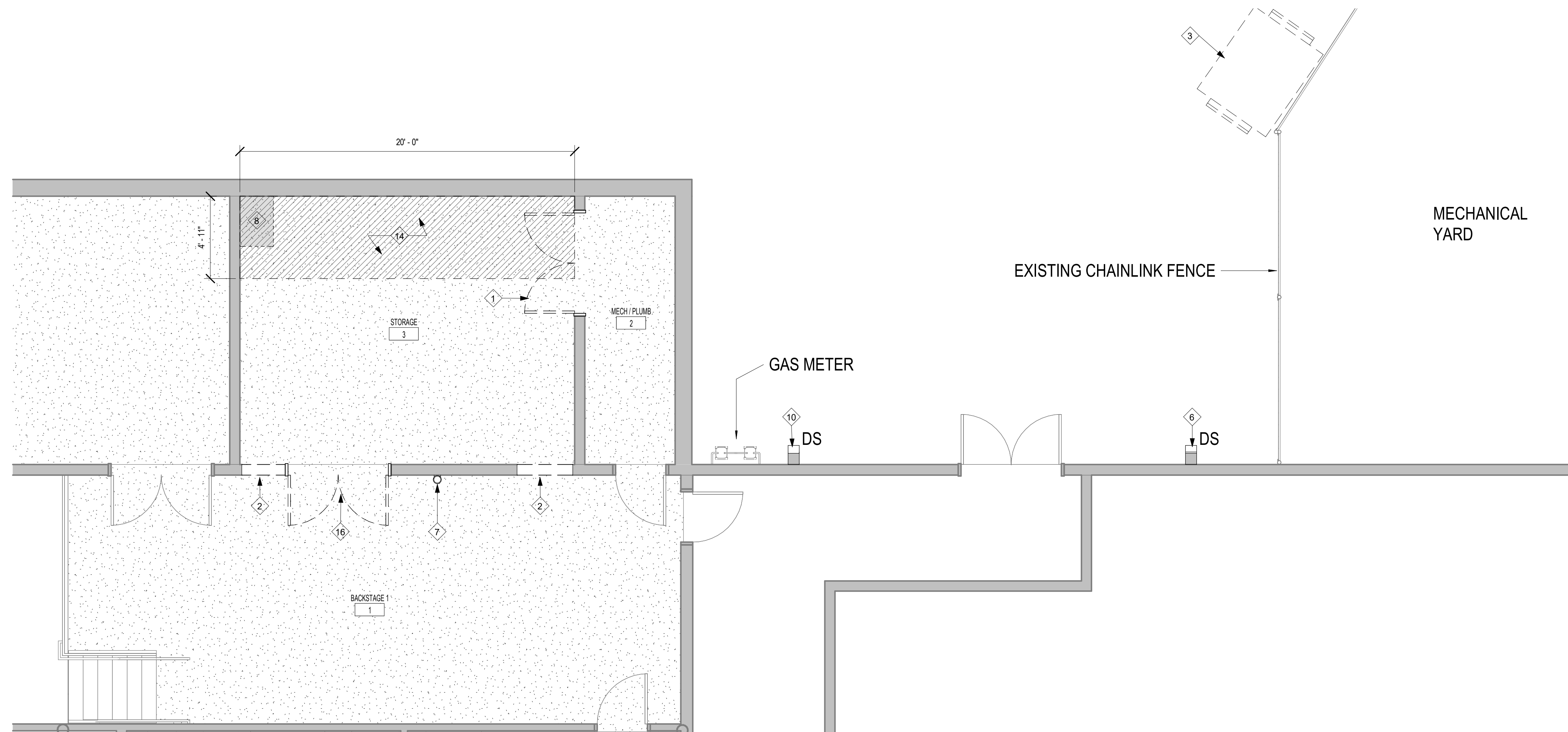
DEMOLITION LEGEND



DEMOLITION KEYED NOTES

- 1 DEMO EXISTING DOORS, INFILL WITH CFS FRAMING AND GYP. BOARD; PAINT TO MATCH EXISTING.
- 2 RE-FRAME WALL CREATE NEW OPENINGS FOR NEW DOOR INSTALLATION. (SEE PLAN)
- 3 DUMPSTER TO BE RELOCATED TO THE SOUTH EAST CORNER OF THE PROPERTY.
- 4 FLAG POLE TO BE RELOCATED TO NORTH EAST ENTRANCE OF BUILDING; SEE PLAN
- 5 LIGHTS TO BE REMOVED AND INFILLED TO MATCH EXISTING
- 6 DOWNSPOUT TO BE CUT AND RECONFIGURED
- 7 REMOVE WALL MOUNTED LIGHT AND RETURN TO OWNER
- 8 REMOVE ELEC. BACKUP PANEL; SEE ELEC.
- 9 REMOVE EXISTING STOREFRONT DOOR AND FRAME, PREP FOR NEW DOOR INSTALLATION. SEE SCHEDULE
- 10 DOWNSPOUT TO BE MOVED AND RECONFIGURED
- 11 REMOVE LIGHTS AND PATCH BRICK AS NEEDED
- 12 REMOVE AND SALVAGE PORTION OF BRICK FOR RE-INSTALLATION
- 13 REMOVE AND REPLACE LIGHT FIXTURE; SEE ELEC.
- 14 SAWCUT CONCRETE AND PREP FOR NEW SHOWER FLOOR INSTALLATION
- 15 REMOVE PORTION OF CONCRETE DOWN TO SUBGRADE; COMPACT SUBGRADE AND PREP FOR NEW SLAB (DRIVING SURFACE)
- 16 DEMO EXISTING DOORS, INFILL WITH CMU BLOCKING; PAINT, SEE SCHEDULE.

NOTE:
DUMPSTER RELOCATION SHALL BE CONTINGENT UPON APPROVAL
OF ALTERNATE #3. IF ALTERNATE #3 IS NOT APPROVED, THE DUMPSTER
RELOCATION SHALL BE VERIFIED WITH THE OWNER PRIOR TO PROCEEDING.



1 PHASE 3 - GREEN ROOM DEMO PLAN - BASE BID
1/4" = 1'-0"



7/17/2026

100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2

REVISIONS

NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26

D100

DEMOLITION PLANS
- PHASE 03



GEN. NOTES - DEMOLITION

A. ALL INFORMATION IS BASED ON FIELD OBSERVATIONS & OWNER SUPPLIED DOCUMENTS & MAY NOT REFLECT ACTUAL FIELD CONDITIONS. UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN DRAWINGS DEPICTING EXIST. CONDITIONS OR UPON DISCOVERY OF UNKNOWN CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK AS INDICATED IN THE DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT, IN WRITING, OF THE CONDITION IN QUESTION BEFORE PROCEEDING WITH WORK IN THAT AREA.

B. SALVAGE IS DEFINED AS CAREFULLY REMOVING & RETAINING ITEMS FOR REUSE. FURTHER EVALUATION OF CERTAIN ITEMS IN TERMS OF SALVAGE DESIRABILITY MAY OCCUR PRIOR TO CONSTRUCTION.

C. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING & BRACING NECESSARY TO MAINTAIN INTEGRITY OF EXIST. STRUCTURE AT ALL TIMES.

D. IF ANY EXIST. FIREPROOFING OR ASSEMBLIES WHICH ARE INDICATED TO REMAIN ARE DAMAGED DURING DEMOLITION THE CONTRACTOR SHALL REPAIR DAMAGE TO THE LEVEL OF THE ORIGINAL FIRE PROTECTION REQUIREMENTS.

E. CARE SHALL BE TAKEN AT INTERFACE BETWEEN DEMOLITION & EXIST. CONSTRUCTION TO REMAIN TO AVOID DAMAGE TO ALL SYSTEMS TO REMAIN. ALL EXIST. CONSTRUCTION REMAINING AFTER DEMOLITION THAT INTERFERES WITH NEW CONSTRUCTION SHALL BE REMOVED AS DIRECTED BY THE ARCHITECT UPON NOTIFICATION BY THE CONTRACTOR.

G. REMOVE EXIST. CONSTRUCTION AS INDICATED. THE TYPICAL WALL REMOVAL INCLUDES FINISHES & MECHANICAL, PLUMBING & ELECTRICAL SYSTEMS CONTAINED THEREIN. REMOVE ALL WALLCOVERING @ WALLS TO REMAIN & PREP FOR PAINT WITHIN EXTENTS OF PHASE. REMOVE ALL WALL BASE. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, & OTHER FIXTURES AS REQUIRED. REMOVE ALL WINDOW COVERINGS IN THEIR ENTIRETY. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN FLOORS OR EXIST. WALLS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION & STRUCTURAL REQUIREMENTS. PATCH ADJOINING WALLS, FLOORS & DECK & PREPARE SURFACES TO RECEIVE A NEW FINISH AS PER FINISH SCHEDULE. REMOVE ALL REMAINING MORTAR / SETTING BEDS & RESIDUE FROM EXIST. FLOORING SURFACES.

H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXIST. SUBSTRATE CORRECTION IN ALL AREAS WHERE MECHANICAL, PLUMBING & ELECTRICAL EQUIP. & SERVICES ARE REMOVED.

I. IT IS INTENDED THAT REMOVAL OF ALL MAJOR MECHANICAL, PLUMBING & ELECTRICAL ITEMS BE COMPLETED BY THEIR RESPECTIVE TRADES. ALL ITEMS TO BE REMOVED ARE NOT NECESSARILY SHOWN ON THESE DOCUMENTS. ONCE REMOVAL OF MAJOR ITEMS IS COMPLETED BY RESPECTIVE TRADES, THE REMAINING ITEMS ARE TO BE REMOVED BY THE GENERAL CONTRACTOR.

J. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES & ORDINANCES AS SET FORTH BY ALL GOVERNING AUTHORITIES.

K. THE CONTRACTOR SHALL NOTIFY, COORDINATE, SCHEDULE & RECEIVE PRIOR PERMISSION FROM THE OWNER IF ANY SHUTDOWN OF SERVICES IS NECESSARY TO COMPLETE THE WORK. NOTIFICATION SHALL INCLUDE THE TYPE OF SERVICE AREA AFFECTED, REQUESTED SHUTDOWN TIME, LENGTH OF TIME, SERVICE TO BE DISCONNECTED & PROPOSED RECONNECTION TIME. PROVIDE MIN. 48-HOURS WRITTEN NOTICE TO OWNER FOR ALL SCHEDULED SHUT-DOWNS. DO NOT PERFORM UTILITY SHUT-DOWNS WITHOUT THE OWNERS WRITTEN CONSENT. COORDINATE WORK RELATED TO SHUT-DOWN TO MINIMIZE UTILITY DOWN-TIME. THE OWNER SHALL REQUIRE ALL UTILITY SHUT-DOWNS TO BE PERFORMED AT NON-PEAK DEMAND TIMES. THE OWNER MAY REQUIRE UTILITY SHUT-DOWNS TO BE PERFORMED AFTER NORMAL BUSINESS HOURS.

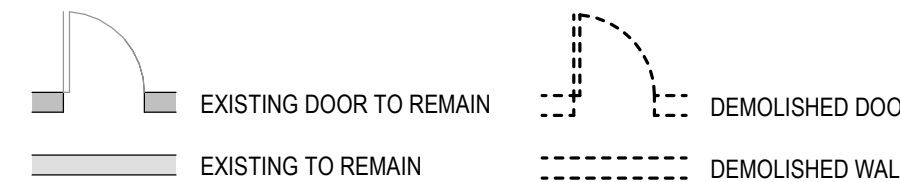
L. ALL OPENINGS, GAPS & VOIDS IN EXIST. CONSTRUCTION LEFT OR UNCOVERED BY DEMOLITION ARE TO BE FILLED USING MATERIALS THAT MATCH SIZE & CONFIGURATION OF ADJACENT EXIST. CONSTRUCTION UNLESS OTHERWISE NOTED HEREIN & AS APPROVED BY THE ARCHITECT.

M. CONTRACTOR SHALL MAINTAIN ADEQUATE EGRESS AT ALL TIMES.

N. SEE HAZARDOUS MATERIAL INSPECTION REPORTS & ABATEMENT SPECIFICATION DIAGRAMS FOR EXTENT OF ACM & LBP. TO BE ABATED.

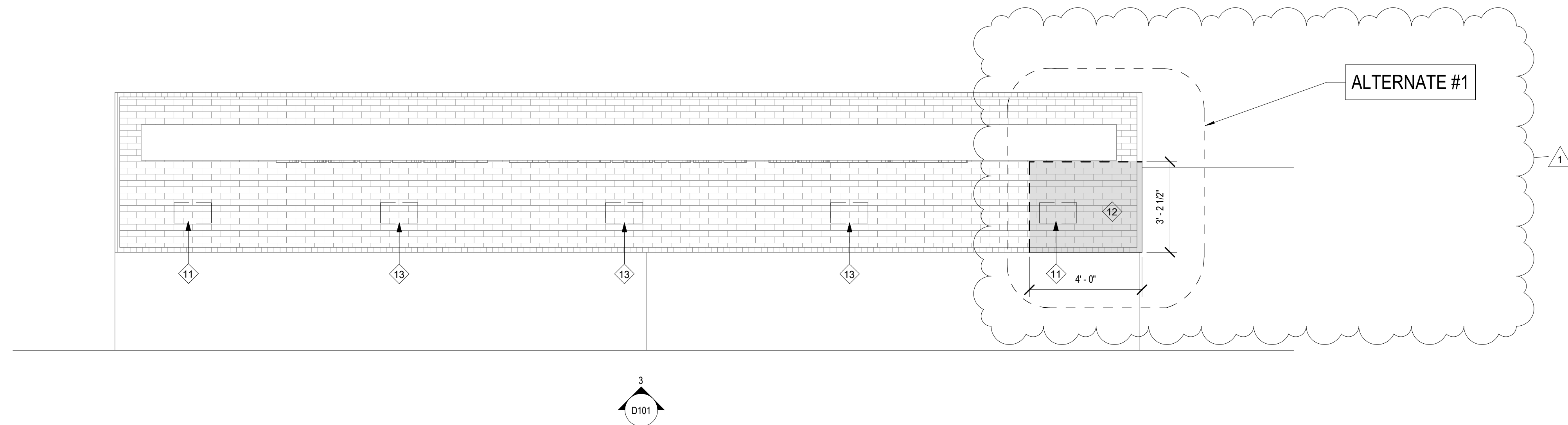
O. WHERE EXISTING CEILINGS ARE TO BE DEMOLISHED, DEMOLISH CEILING IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO, SUSPENDED CEILING ASSEMBLIES, DIRECT MOUNT CEILING ASSEMBLIES, LIGHTING FIXTURES, & MECH. GRILLES.

DEMOLITION LEGEND

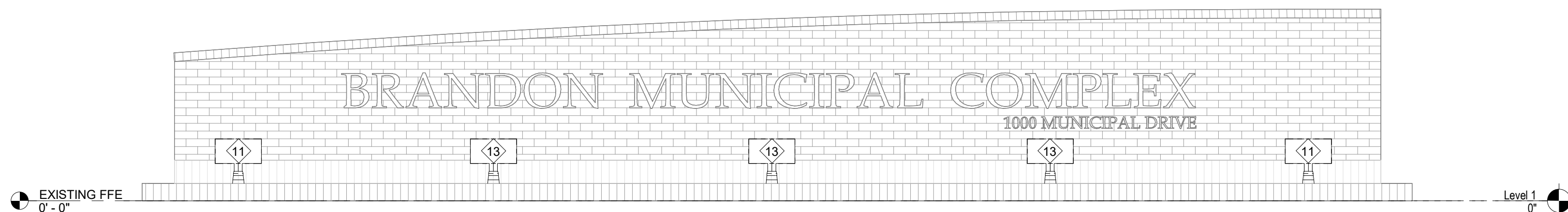


DEMOLITION KEYED NOTES

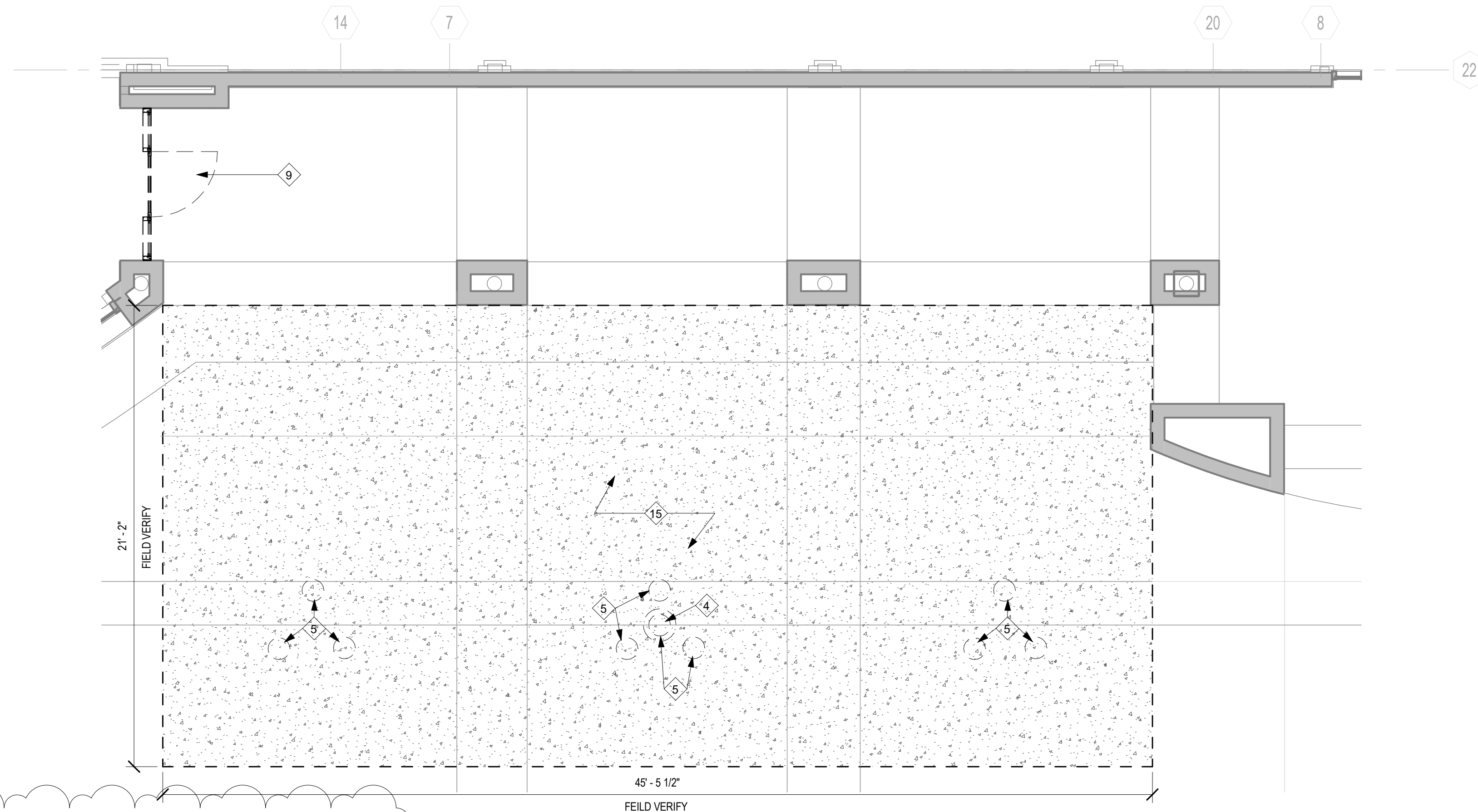
- 1 DEMO EXISTING DOORS, INFILL WITH CFS FRAMING AND GYP. BOARD; PAINT TO MATCH EXISTING.
- 2 RE-FRAME WALL CREATE NEW OPENINGS FOR NEW DOOR INSTALLATION. (SEE PLAN)
- 3 DUMPSTER TO BE RELOCATED TO THE SOUTH EAST CORNER OF THE PROPERTY.
- 4 FLAG POLE TO BE RELOCATED TO NORTH EAST ENTRANCE OF BUILDING; SEE PLAN
- 5 LIGHTS TO BE REMOVED AND INFILLED TO MATCH EXISTING
- 6 DOWNSPOUT TO BE CUT AND RECONFIGURED
- 7 REMOVE WALL MOUNTED LIGHT AND RETURN TO OWNER
- 8 REMOVE ELEC. BACKUP PANEL; SEE ELEC.
- 9 REMOVE EXISTING STOREFRONT DOOR AND FRAME, PREP FOR NEW DOOR INSTALLATION. SEE SCHEDULE
- 10 DOWNSPOUT TO BE MOVED AND RECONFIGURED
- 11 REMOVE LIGHTS AND PATCH BRICK AS NEEDED
- 12 REMOVE AND SALVAGE PORTION OF BRICK FOR RE-INSTALLATION
- 13 REMOVE AND REPLACE LIGHT FIXTURE; SEE ELEC.
- 14 SAWCUT CONCRETE AND PREP FOR NEW SHOWER FLOOR INSTALLATION
- 15 REMOVE PORTION OF CONCRETE DOWN TO SUBGRADE; COMPACT SUBGRADE AND PREP FOR NEW SLAB (DRIVING SURFACE)
- 16 DEMO EXISTING DOORS, INFILL WITH CMU BLOCKING; PAINT, SEE SCHEDULE.



1 ENLARGED PLAN @ FRONT SIGN DEMO
3/8" = 1'-0"



3 FRONT ELEVATION @ FRONT SIGN - BASE BID
3/8" = 1'-0"



2 PHASE 03 - FRONT EXTERIOR DEMO PLAN - ALTERNATE #1
1/4" = 1'-0"



7/17/2026

100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2

REVISIONS

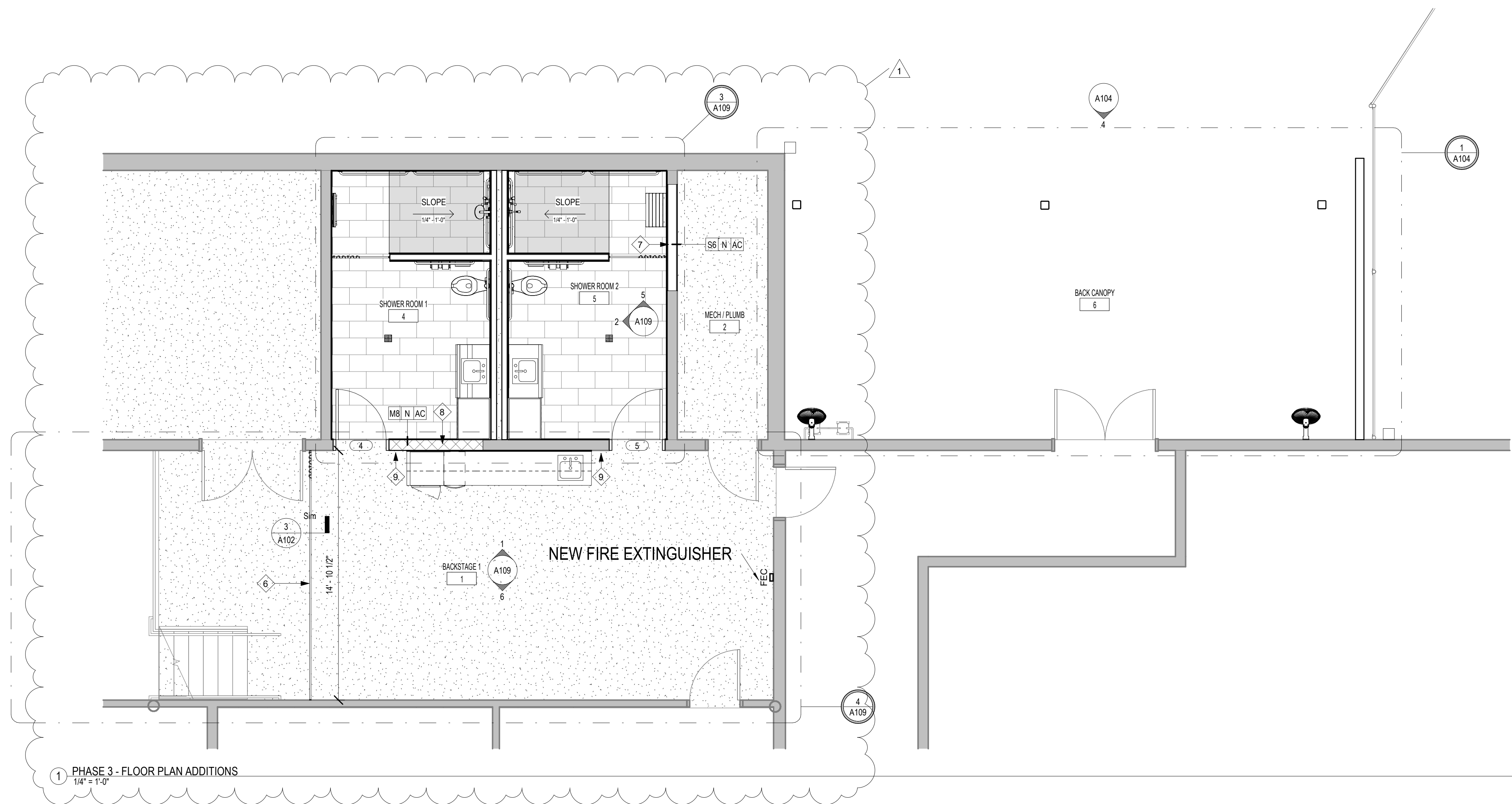
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26



DEMOLITION PLANS
- PHASE 03

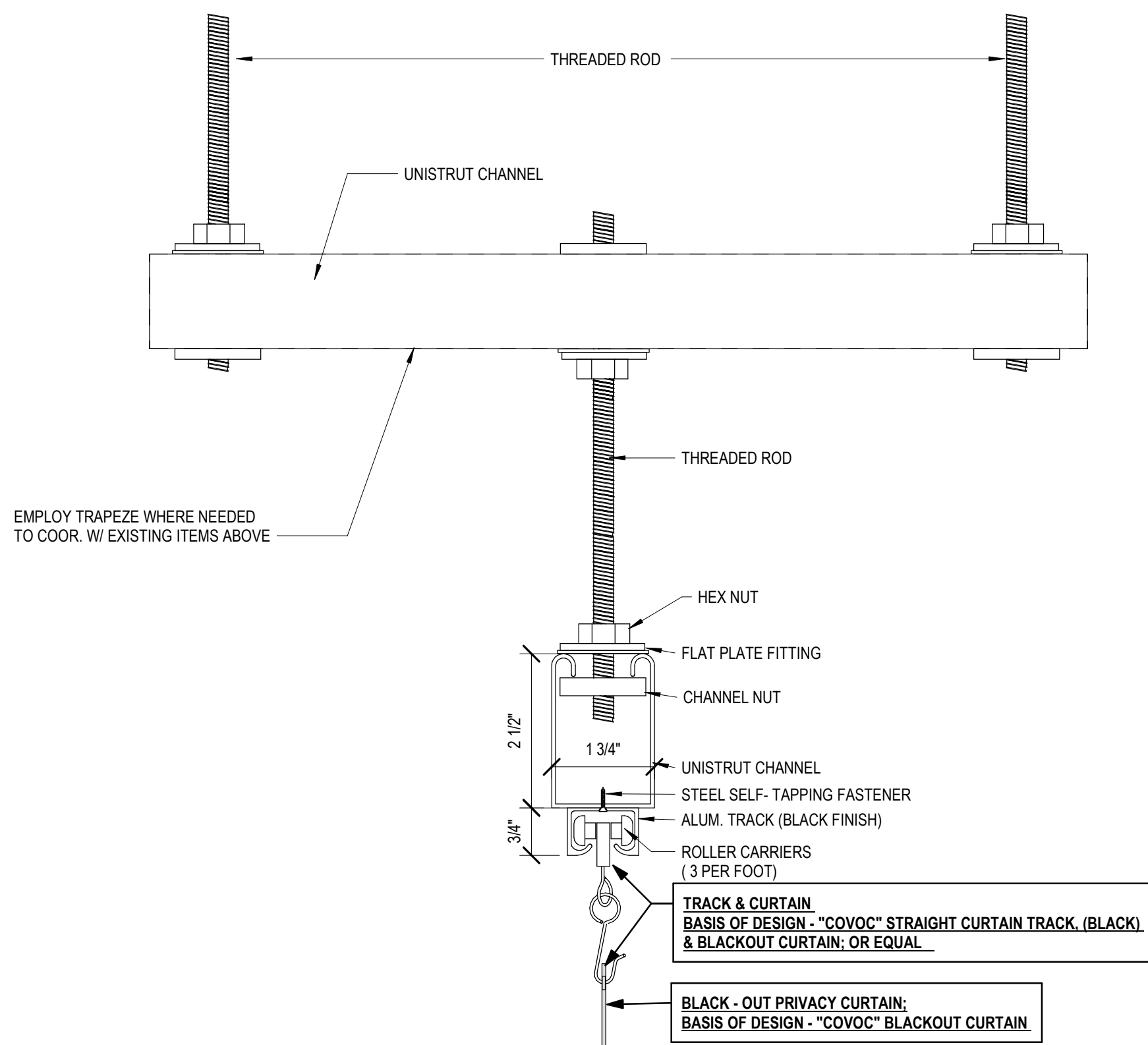
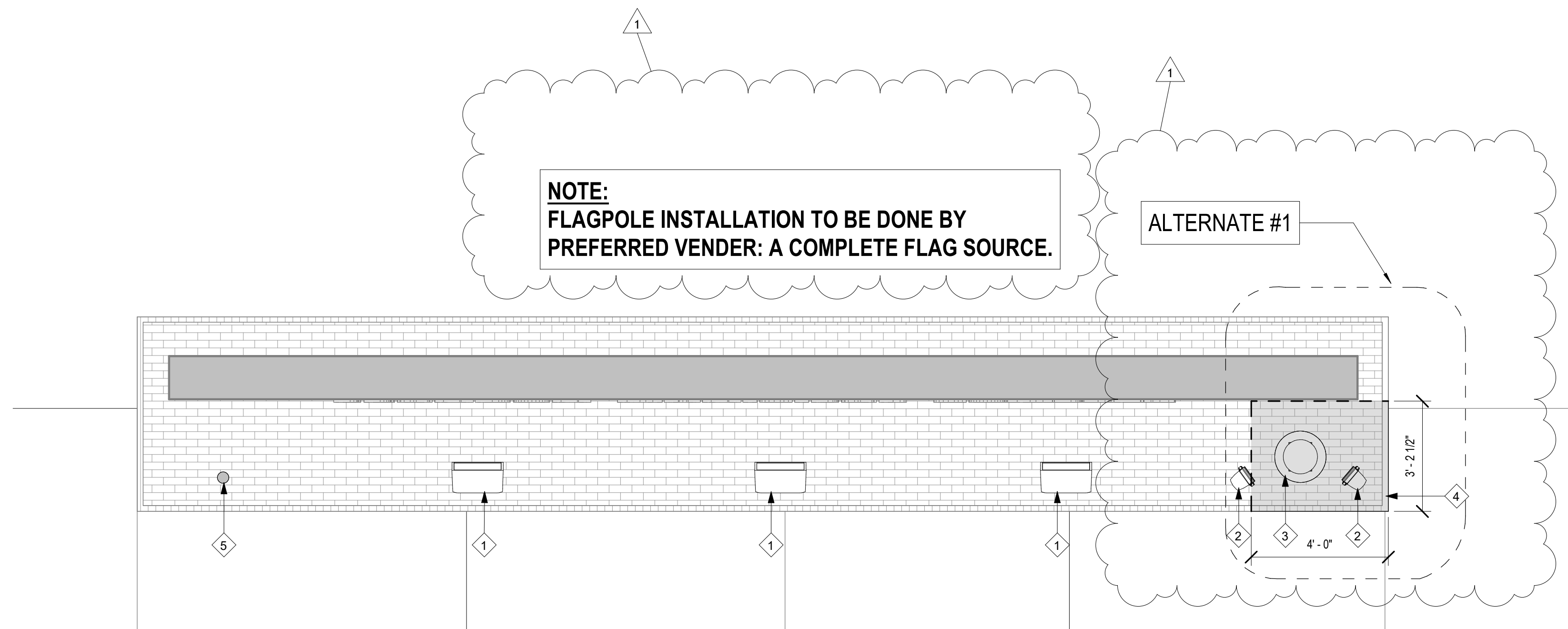
KEYED NOTES

- 1 NEW LED LIGHTS FOR SIGNAGE; SEE ELEC.
- 2 NEW UPLIGHTS FOR FLAG POLE; SEE ELEC.
- 3 NEW FLAG POLE LOCATION
- 4 REUSE SALVAGED BRICK TO THE GREATEST EXTENT POSSIBLE BEFORE INCORPORATING NEW BRICK; NEW BRICK TO MATCH EXISTING
- 5 INFILL WITH BRICK, MATCH EXISTING
- 6 PIPE AND DRAPE (9'-0" A.F.F.)
- 7 WALLS TO BE CONSTRUCTED W/ CFSF. AND GYP BOARD; PAINT AND ADD NEW WALL BASE
- 8 WALLS TO BE CONSTRUCTED W/ CMU BLOCKING; PAINT AND ADD NEW WALL BASE (SEE SCHEDULE)
- 9 PLATE SIGNAGE, SEE SPECS



NOTE:
FLAGPOLE INSTALLATION TO BE DONE BY
PREFERRED VENDER: A COMPLETE FLAG SOURCE.

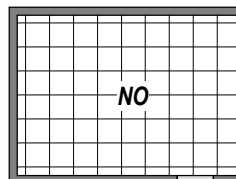
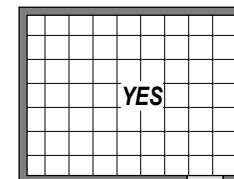
ALTERNATE #1

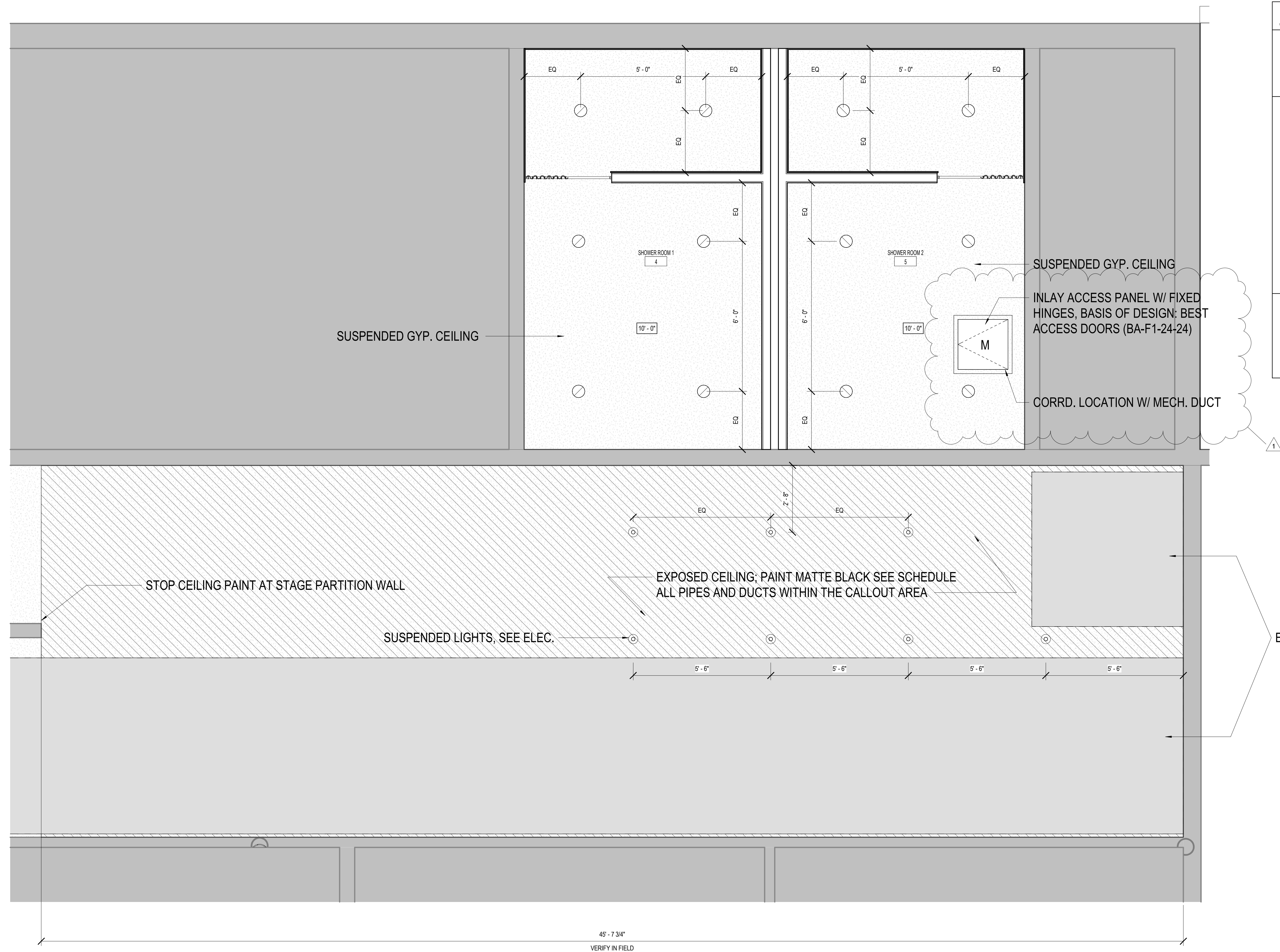


7/17/2026

**100%
CONSTRUCTION
DOCUMENTS**
WBA # 24-040.2

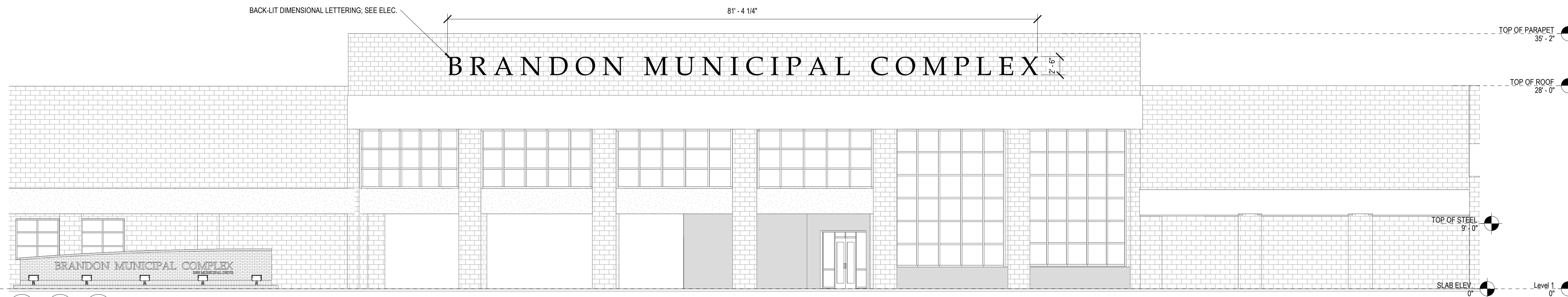
REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26

RCP LEGEND					
	GYPSUM BOARD CEILING, PAINTED		ACOUSTICAL CEILING TILE		EXPOSED; PAINTED MATTE BLACK
	RECESSED FIXTURE		RECESSED LINEAR SLOTLIGHT		SURFACE MTD. ADJUSTABLE FIXTURE
	SURFACE FIXTURE		EXIT SIGN		HVAC SUPPLY REGISTER
	SURFACE MTD. LED FIXTURE		HVAC RETURN REGISTER		HVAC EXHAUST REGISTER
	PENDANT FIXTURE		CEILING ACCESS PANEL P-PANEL FOR PLUM.		M-PANEL FOR MECH.
	PENDANT DOWNLIGHT FIXTURE		CEILING FAN		
	WALL MTD. FIXTURE				
	2X2 RECESSED FIXTURE				
	2X4 RECESSED FIXTURE				
	SURFACE MTD. FIXTURE				
	STRIP LIGHT FIXTURE				
AVOID USING LESS THAN 1/2 CEILING PANEL DIMENSION AT A.C.T. CEILING PERIMETER					
	NO		YES		



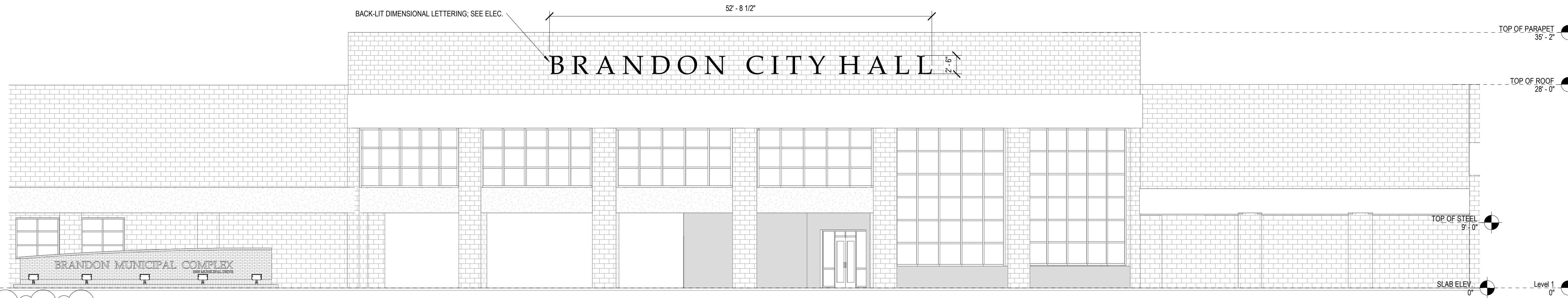


BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON
1000 Municipal Dr.
Brandon, MS 39042



1 SIGNAGE - OPTION 1 ALTERNATE 2A
1/8" = 1'-0"

1



2 SIGNAGE - OPTION 2 ALTERNATE 2B
1/8" = 1'-0"

1



7/17/2026

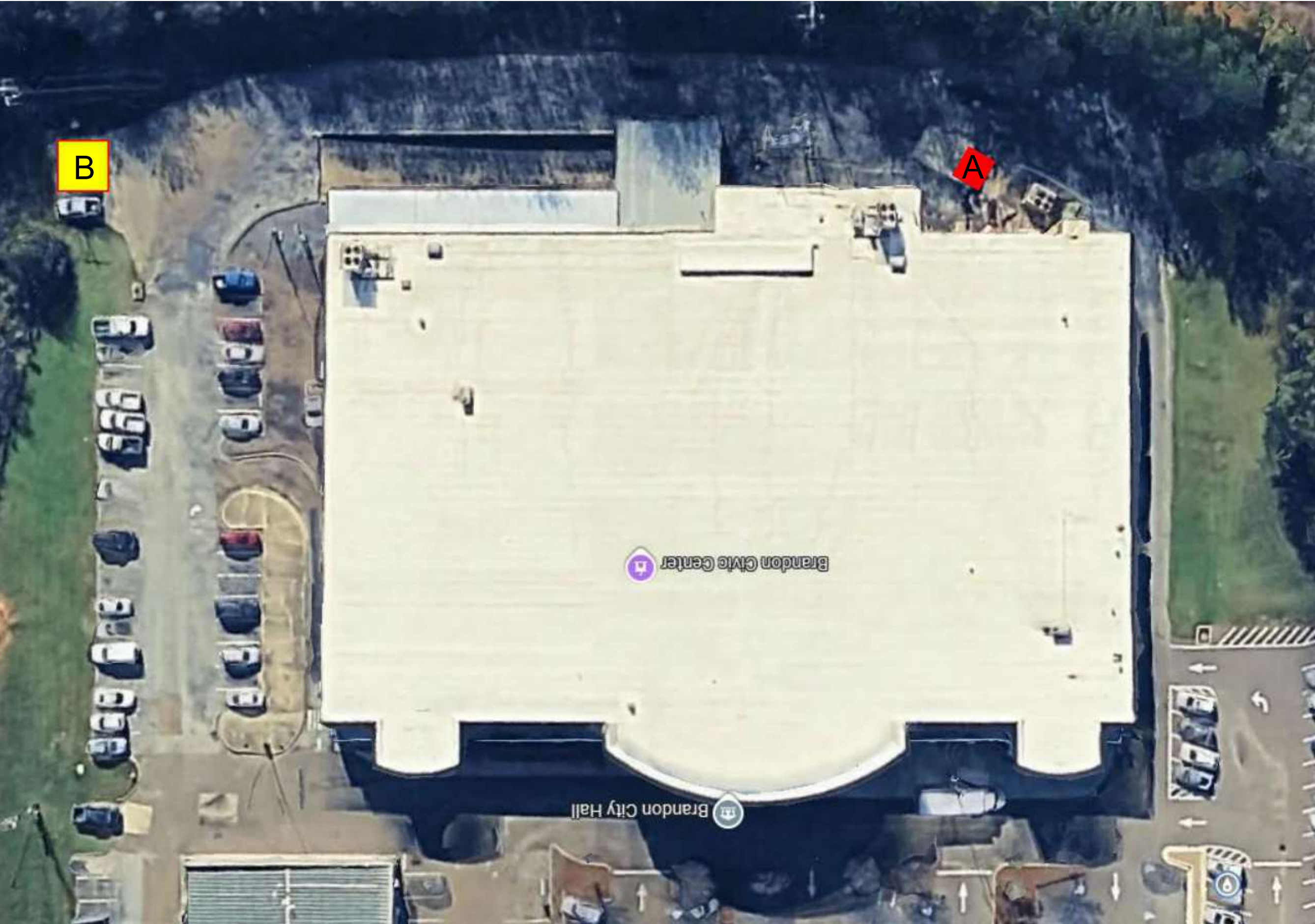
100%
CONSTRUCTION
DOCUMENTS

WBA # 24-040.2

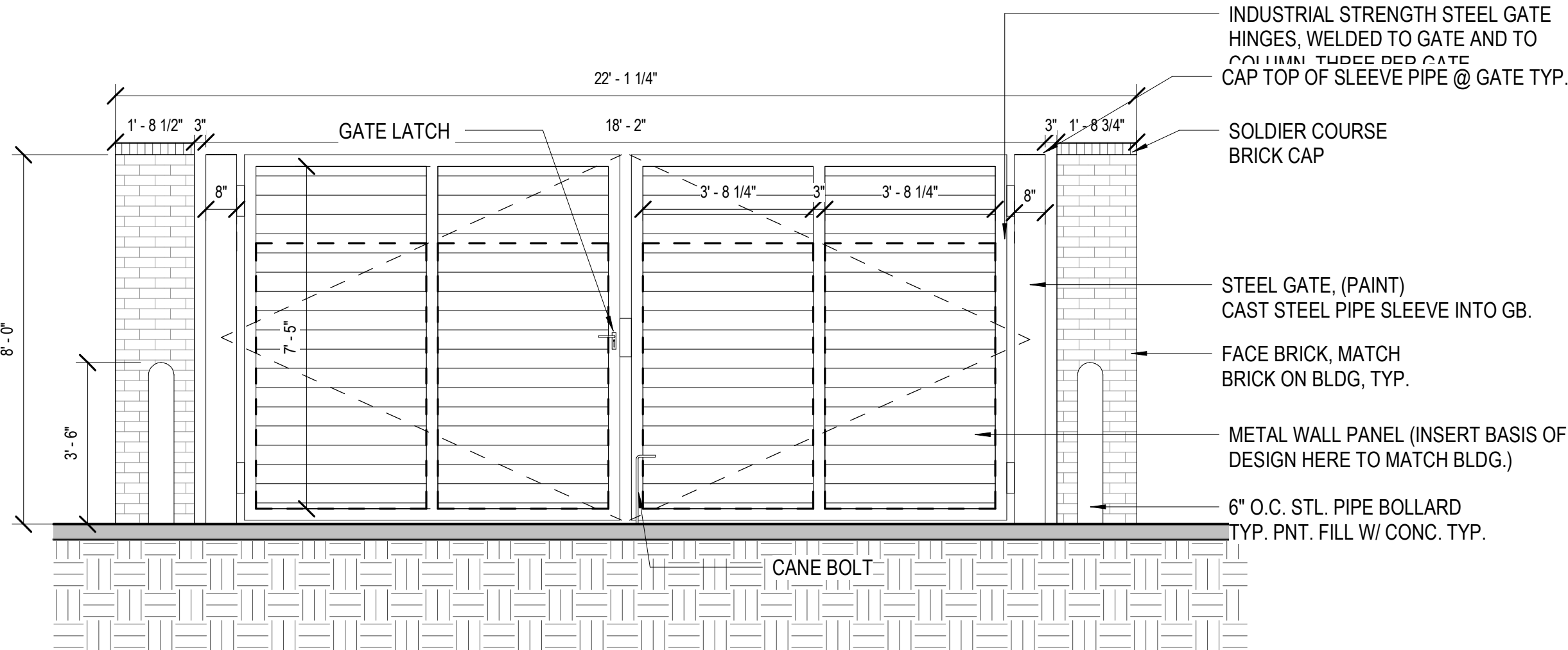
REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26

A106
BUILDING SIGNAGE -
PH. 03 / ADD
ALTERNATE 2A & 2B

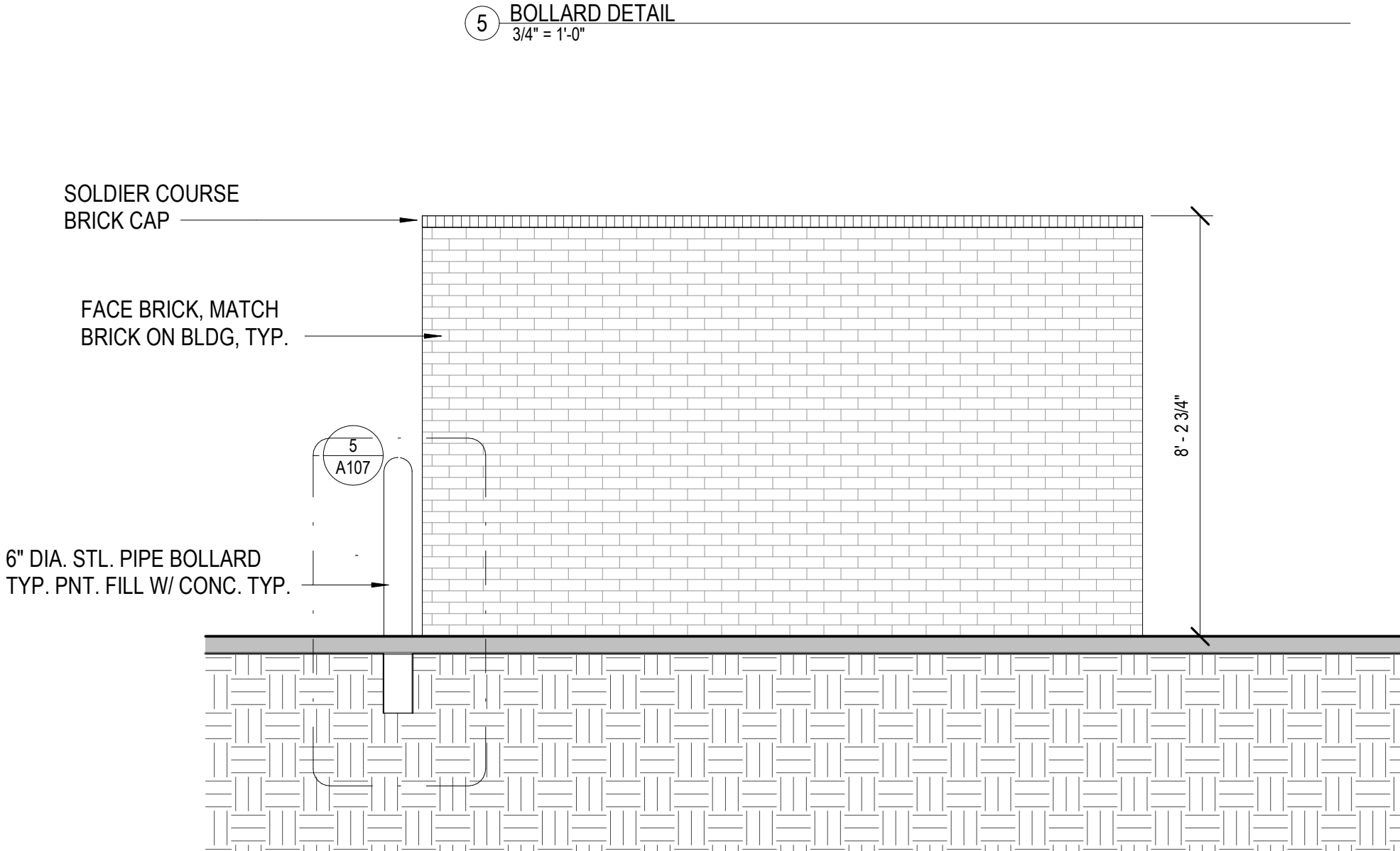
VICINITY MAP - DUMPSTER RELOCATION



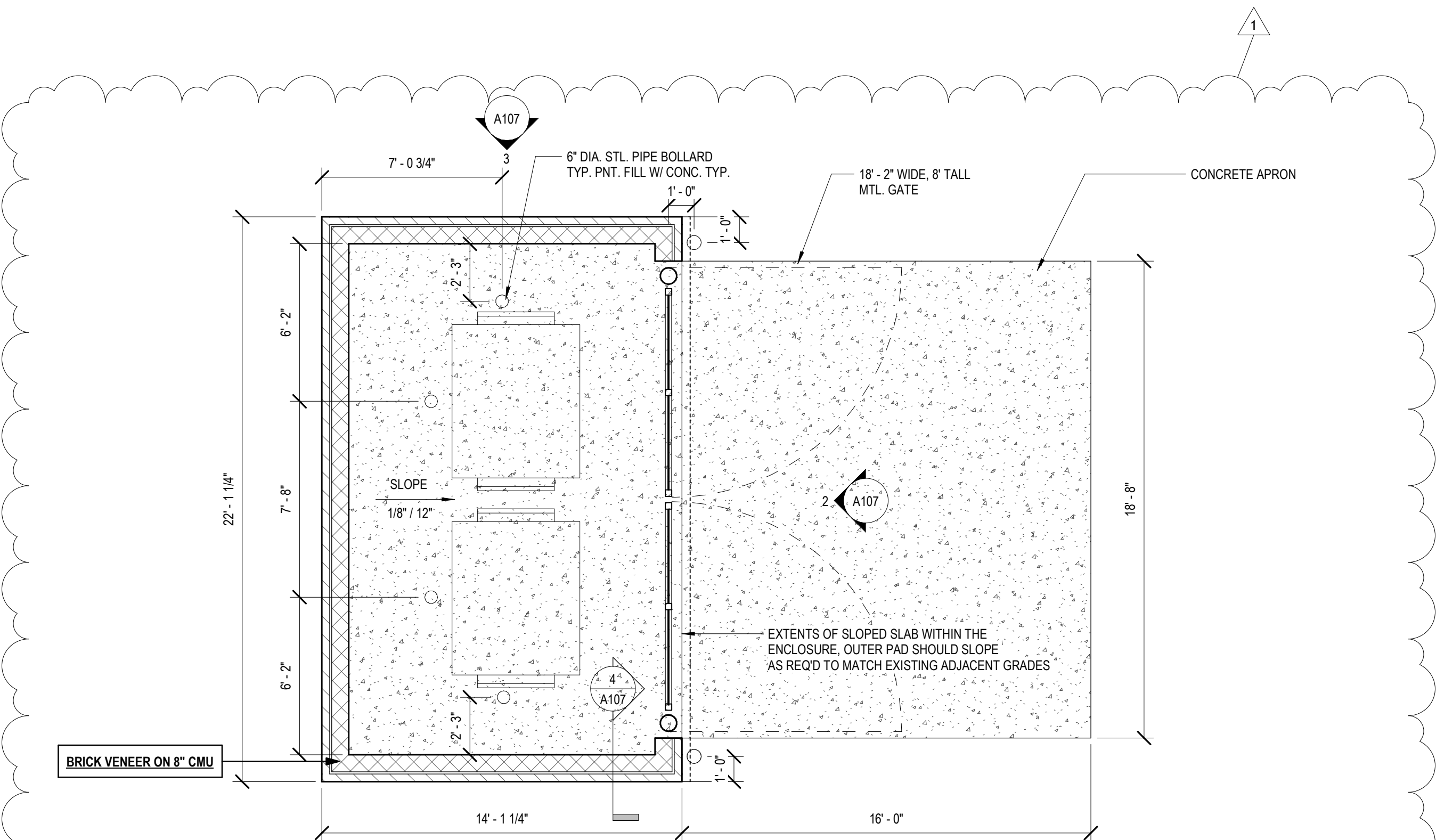
A - EXISTING DUMPSTER LOCATION
B - NEW DUMPSTER ENCLOSURE



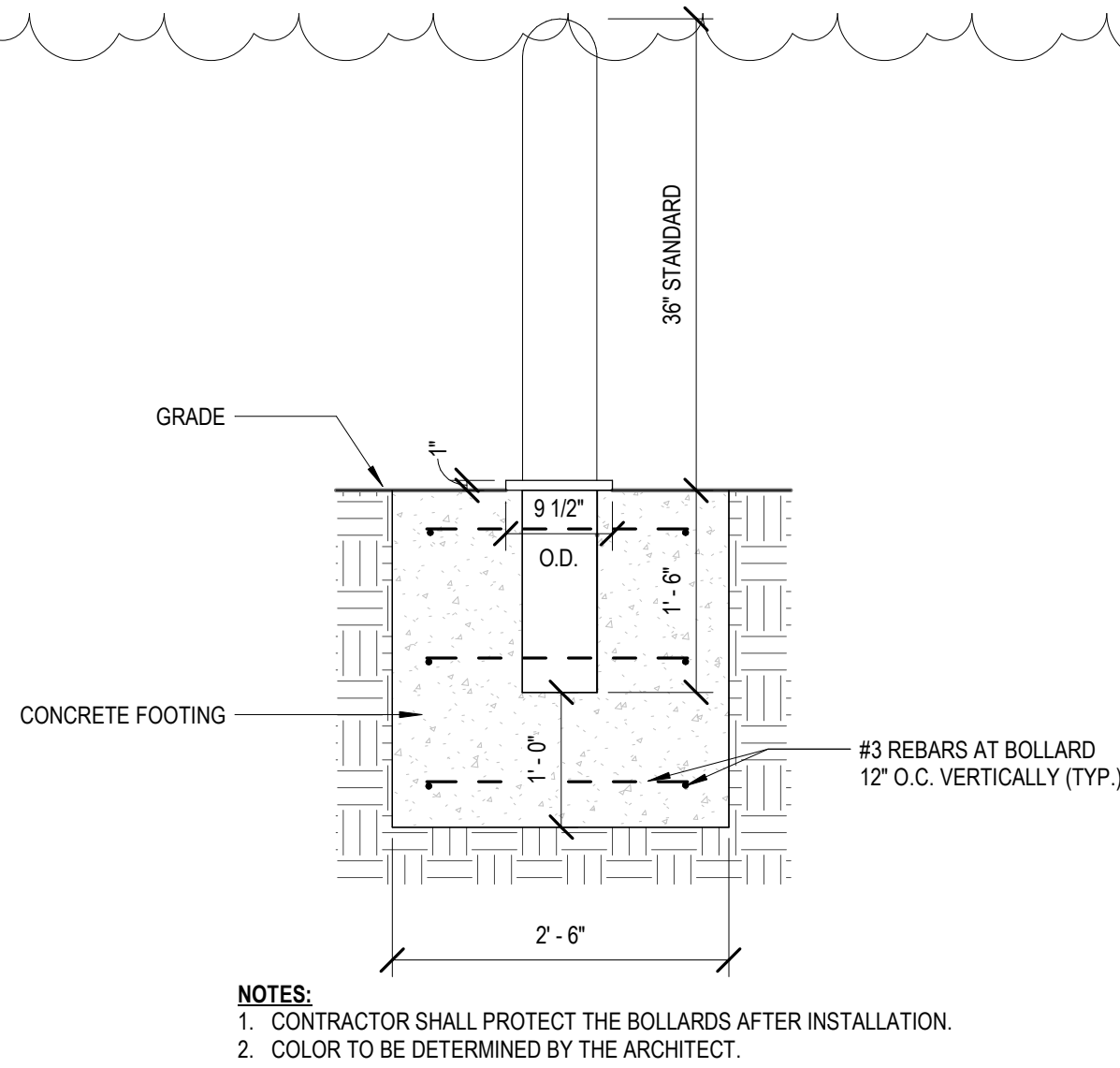
2 DUMPSTER ENCLOSURE FRONT ELEVATION
3/8" = 1'-0"



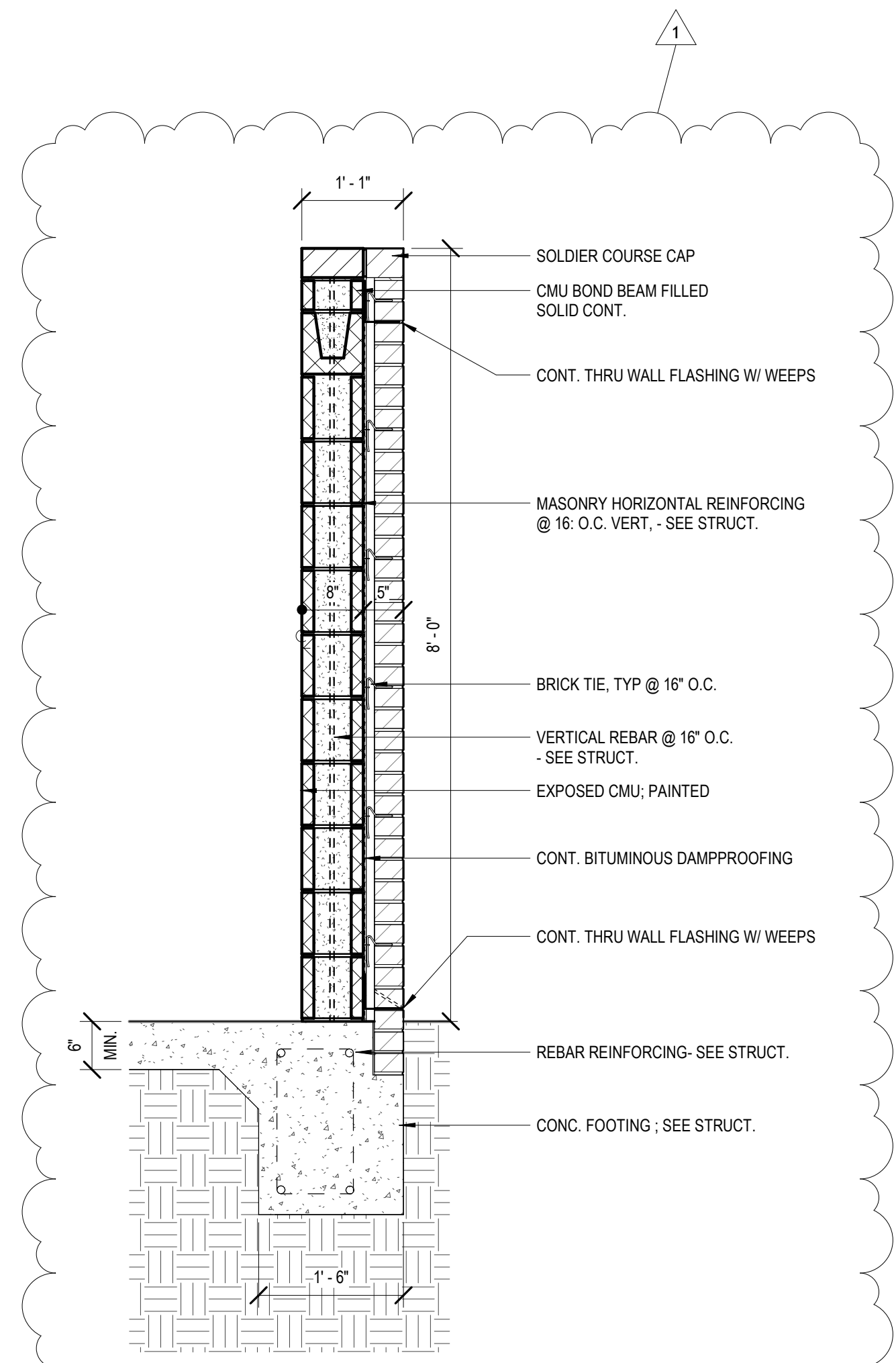
3 ALTERNATE 03 - DUMPSTER ENCLOSURE SIDE ELEVATION
3/8" = 1'-0"



1 ALTERNATE 03 - DUMPSTER ENCLOSURE FLOOR PLAN
1/4" = 1'-0"



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



4 DUMPSTER ENCLOSURE - WALL SECTION
3/4" = 1'-0"



BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON
1000 Municipal Dr,
Brandon, MS 39042



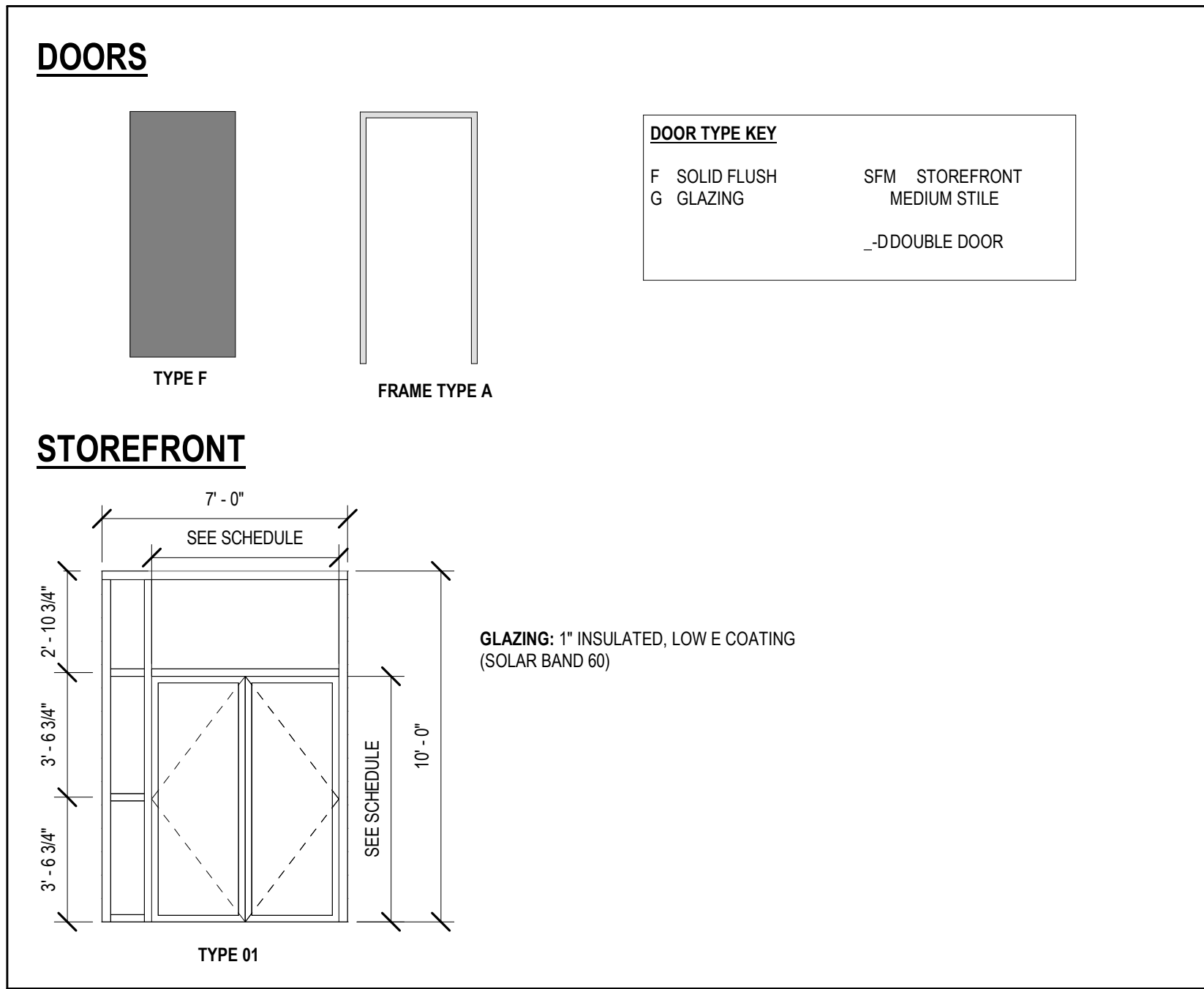
7/17/2026
100%
CONSTRUCTION
DOCUMENTS
WBA # 24-040.2

REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26



DUMPSTER
ENCLOSURE PH. 03
/ ADD ALTERNATE
03

DOOR SCHEDULE										
Level	OPENING TAG	RTG	OPENING SIZE		DOOR		FRAME			REMARKS
			WIDTH	HEIGHT	TYPE	MTL	TYPE	MTL	FIN	
Level 1	4		3' - 0"	7' - 0"	F	HM	A	HM	PNT	
Level 1	5		3' - 0"	7' - 0"	F	HM	A	HM	PNT	
Level 1	6		5' - 4"	7' - 0"	SFM	ALUM. / GL	01	ALUM	PREF.	
Level 1	9		18' - 8"	8' - 0"						



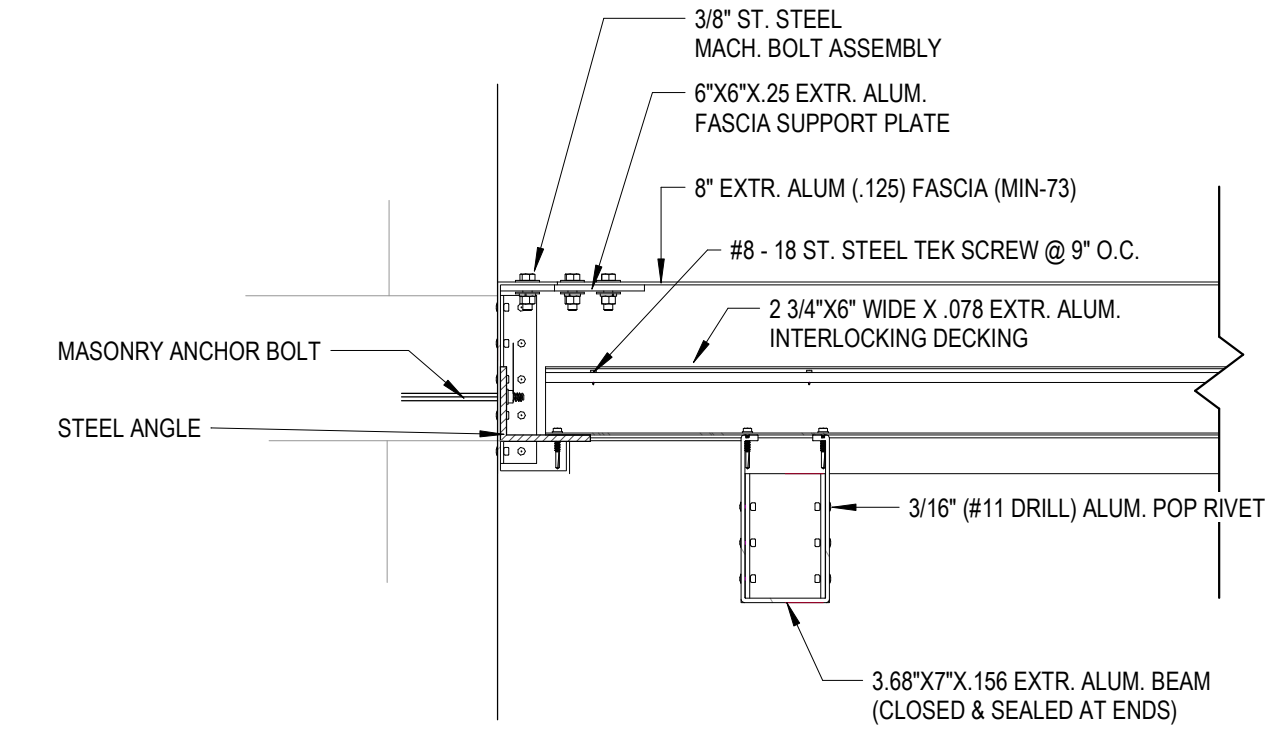
FINISH LEGEND								
CATEGORY	FINISH CODE	TYPE	MANUFACTURER	DESCRIPTION	COLOR	SIZE	INSTALLATION METHOD	COMMENTS
CEILING FINISH	GYP-1	GYP WALLBOARD CEILING, PAINTED		SHERWIN WILLIAMS	SNOWBOUND SW 7004			FINISH: FLAT
COUNTERTOP	QTZ-1	QUARTZ COUNTERTOP	CAMBRIA		BRITTANICCA	2CM		
FLOOR FINISH	PFT-1	PORCELAIN FLOOR TILE - SHOWER RM	DALTILE	VOLUME 1.0	TRUFFLE	12"x24"		LATICRETE EPOXY GROUT, COLOR TBD
MILLWORK	PLAM-1	PLASTIC LAMINATE	FORMICA	FENIX NTM	GRIGIO ARAGONA J0793	0.7 MM		
WALL BASE	RB-1	RUBBER BASE	JOHNSTONITE	BASEWORKS THERMOSET	MOON ROCK 29			
WALL FINISH	CWT-1	CERAMIC WALL TILE	ANATOLIA	SOHO	CANVAS WHITE - GLOSSY	4"x12"	HORIZONTAL RUNNING BOND	LATICRETE EPOXY GROUT, COLOR TBD; USE COORDINATING JOLLY TRIM AT ALL EXPOSED EDGES
WALL FINISH	CWT-2	CERAMIC WALL TILE	ANATOLIA	SOHO	CEMENT CHIC	3"x6"	VERTICAL RUNNING BOND	LATICRETE EPOXY GROUT, COLOR TBD; USE COORDINATING JOLLY TRIM AT ALL EXPOSED EDGES
WALL FINISH	P-1	PAINT, TYP. WALL COLOR		SHERWIN WILLIAMS	DOVETAIL SW 7018			FINISH: SATIN

FINISH SCHEDULE								
ROOM #	ROOM NAME	FLOOR FIN.	BASE	WALL FIN.	CEILING FIN.	MILLWORK	COUNTERTOP	COMMENTS
1	BACKSTAGE 1	CONC-1	RB-1	P-1, CWT-2		PLAM-1	QTZ-1	CWT-1 AT MILLWORK BACKSPLASH
4	SHOWER ROOM 1	PFT-1	CWT-1	P-1, CWT-1	GYP-1	PLAM-1	QTZ-1	CWT-1 UP TO 60" AFF ON ALL WALLS W/ P-1 ABOVE, CWT-1 FULL HEIGHT IN SHOWER
5	SHOWER ROOM 2	PFT-1	CWT-1	P-1, CWT-1	GYP-1	PLAM-1	QTZ-1	CWT-1 UP TO 60" AFF ON ALL WALLS W/ P-1 ABOVE, CWT-1 FULL HEIGHT IN SHOWER

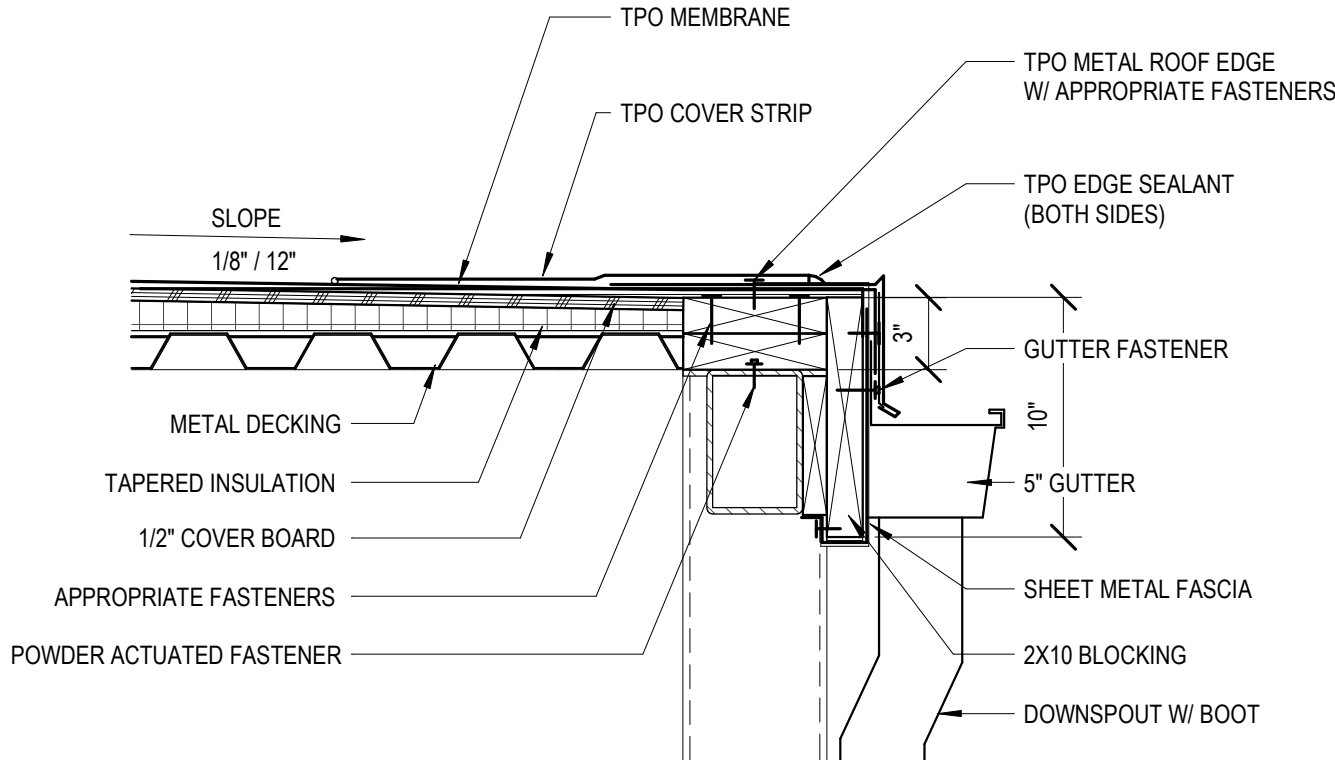
PLUMBING ACCESSORY LEGEND - SEE SPECS.

- A. BATHROOM SHOWER TRIM KIT - KOHLER AWAKEN K-26914-Y-BL
B. BATHROOM SINK - BASIS OF DESIGN: KOHLER IRON PLAINS K-5400-0 (UNDERMOUNT)
C. BATHROOM SINK FAUCET - BASIS OF DESIGN: KOHLER HINT K-37893-4-BL
D. KITCHENETTE SINK - BASIS OF DESIGN: KOHLER VAULT K-3822-NA
E. KITCHENETTE SINK FAUCET - BASIS OF DESIGN: KOHLER COMPONENTS K-28270-RT2-BL
F. ADA GRAB BAR - KOHLER CONTEMPORARY SERIES K-14565-BL, K-14564-BL, K-14562-BL
G. TOILET TISSUE HOLDER - KOHLER ELATE K-27291-BL
H. ROBE HOOK - KOHLER ELATE K-27290-BL 66" A.F.F.
I. MIRROR - KOHLER ESSENTIALS K-31364-BLL
J. SHOWER CURTAIN ROD - KOHLER ELATE K-33810-BL
K. SHOWER SHELF INSERT - SCHLUTER-SHELF-E WAVE, SES1 D10 EB
L. ADA SHOWER SEAT - BRADLEY-WALL MOUNT- PHENOLIC OR EQUAL (34 1/2" MAX - 24" MIN -WIDTH)

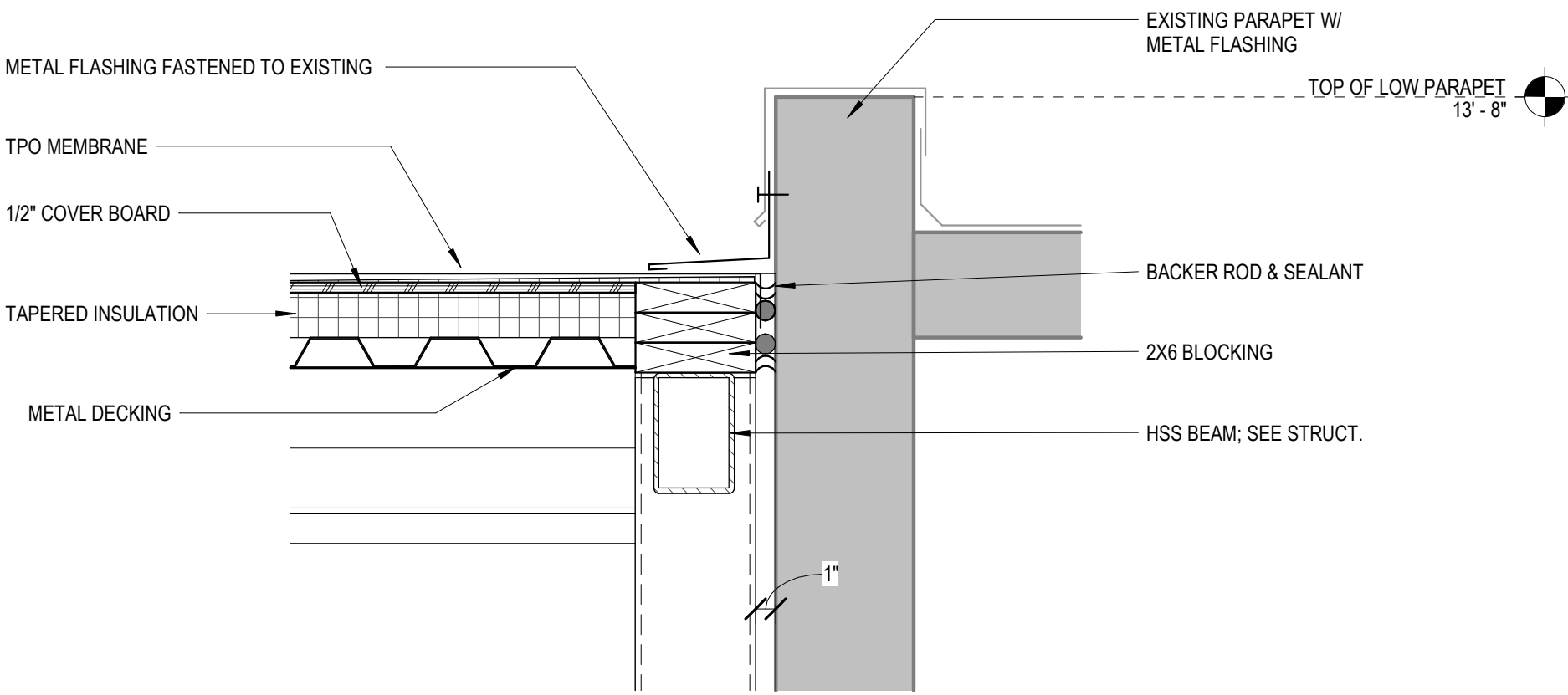
DETAILS



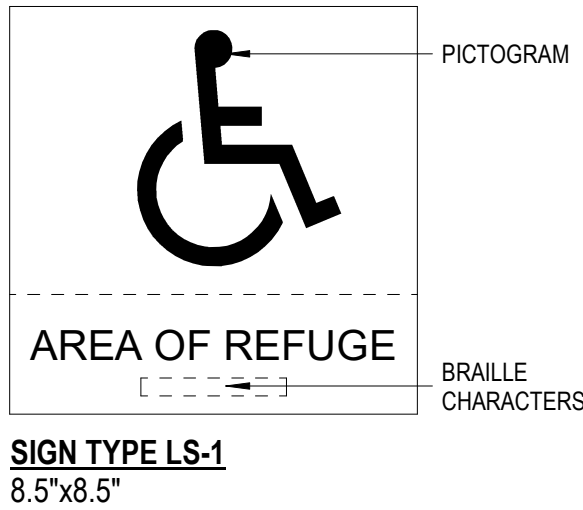
1 CANOPY WALL MOUNTED CONNECTION / MANUFACTURE TYP. DETAIL
1 1/2" = 1'-0"



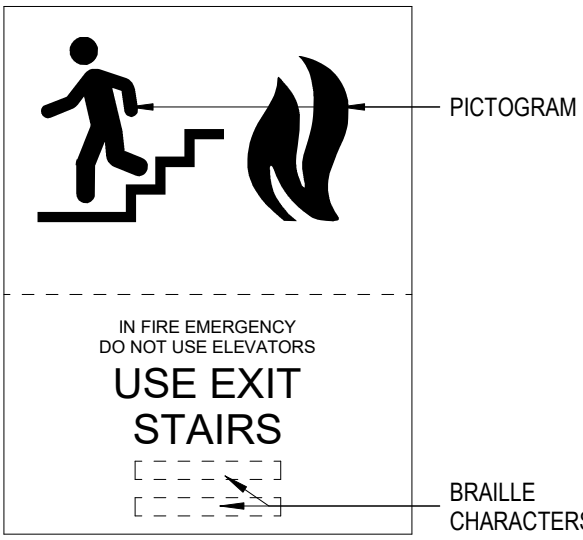
3 FRONT METAL CANOPY DETAIL AT ROOF EDGE
1 1/2" = 1'-0"



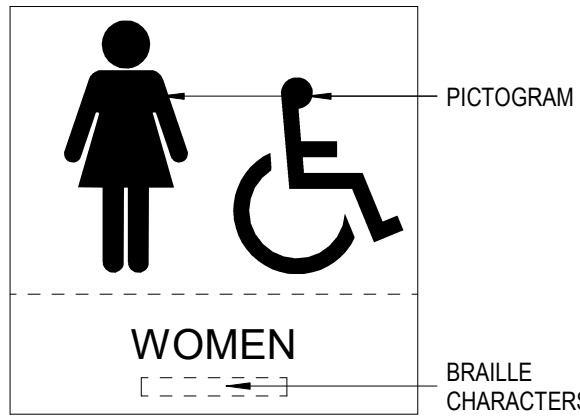
4 Detail 1
1 1/2" = 1'-0"



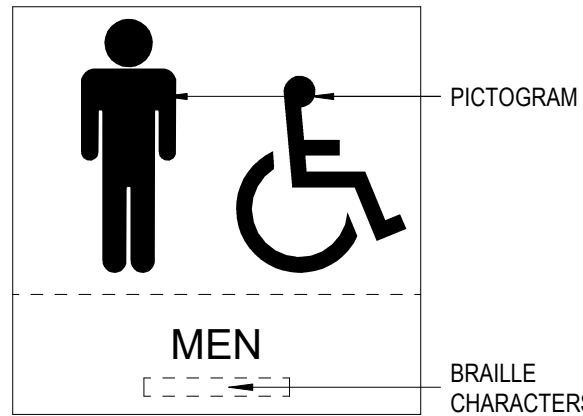
SIGN TYPE LS-1
8.5"x8.5"



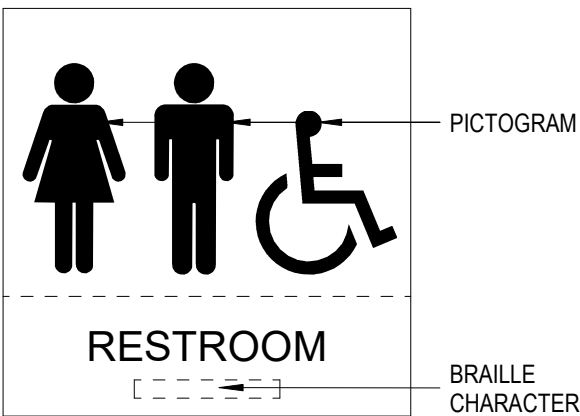
SIGN TYPE LS-2
8.5"x11"



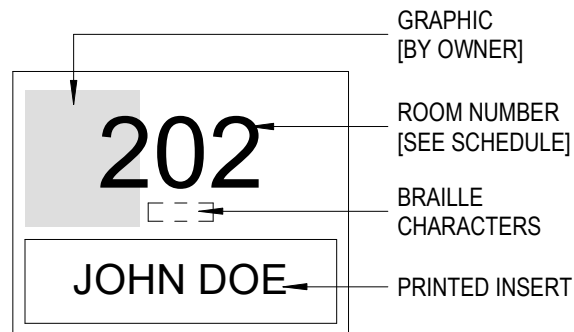
SIGN TYPE RM-3
8.5"x8.5"



SIGN TYPE RM-4
8.5"x8.5"

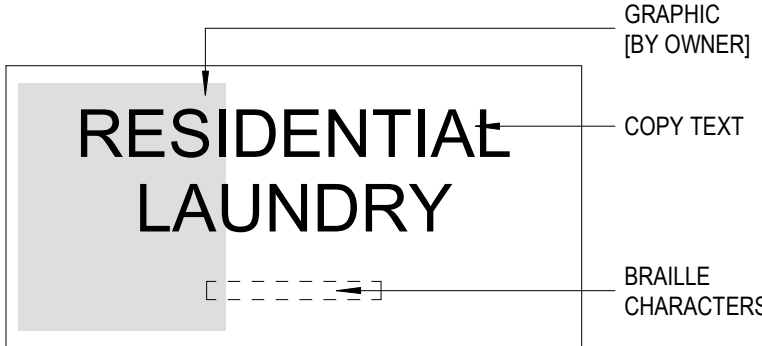


SIGN TYPE RM-5
8.5"x8.5"



SIGN TYPE RM-1
5.5"x7"

NOTE: UNIT / OFFICE SIGN



SIGN TYPE RM-2
6"x12"

PER FBC SECTION 1009.11:
IN AREAS OF REFUGE, INSTRUCTIONS ON THE USE OF THE AREA UNDER EMERGENCY CONDITIONS SHALL BE POSTED. SIGNAGE SHALL COMPLY WITH ICC A117.1 REQUIREMENTS FOR VISUAL CHARACTERS. THE INSTRUCTIONS SHALL INCLUDE THE FOLLOWING:

- PERSONS ABLE TO USE THE EXIT STAIRWAY DO SO AS SOON AS POSSIBLE, UNLESS THEY ARE ASSISTING OTHERS.
- INFORMATION ON PLANNED AVAILABILITY OF ASSISTANCE IN THE USE OF STAIRS OR SUPERVISED OPERATION OF ELEVATORS AND HOW TO SUMMON SUCH ASSISTANCE.
- DIRECTIONS FOR USE OF THE TWO-WAY COMMUNICATION SYSTEM WHERE PROVIDED.

SIGN GRAPHICS TO BE INCLUDED IN SIGNAGE SUBMITTAL. MANUFACTURER TO VERIFY SIZE OF SIGN WITH OWNER AND ARCHITECT.



BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON

1000 Municipal Dr,
Brandon, MS 39042



7/17/2026

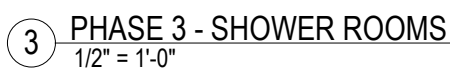
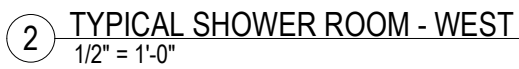
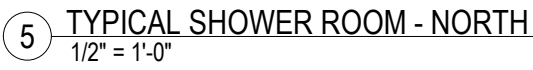
100%
CONSTRUCTION
DOCUMENTS

WBA # 24-040.2

REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8.12.26



000 Municipal Dr,
randon, MS 39042



BA # 24-040.2

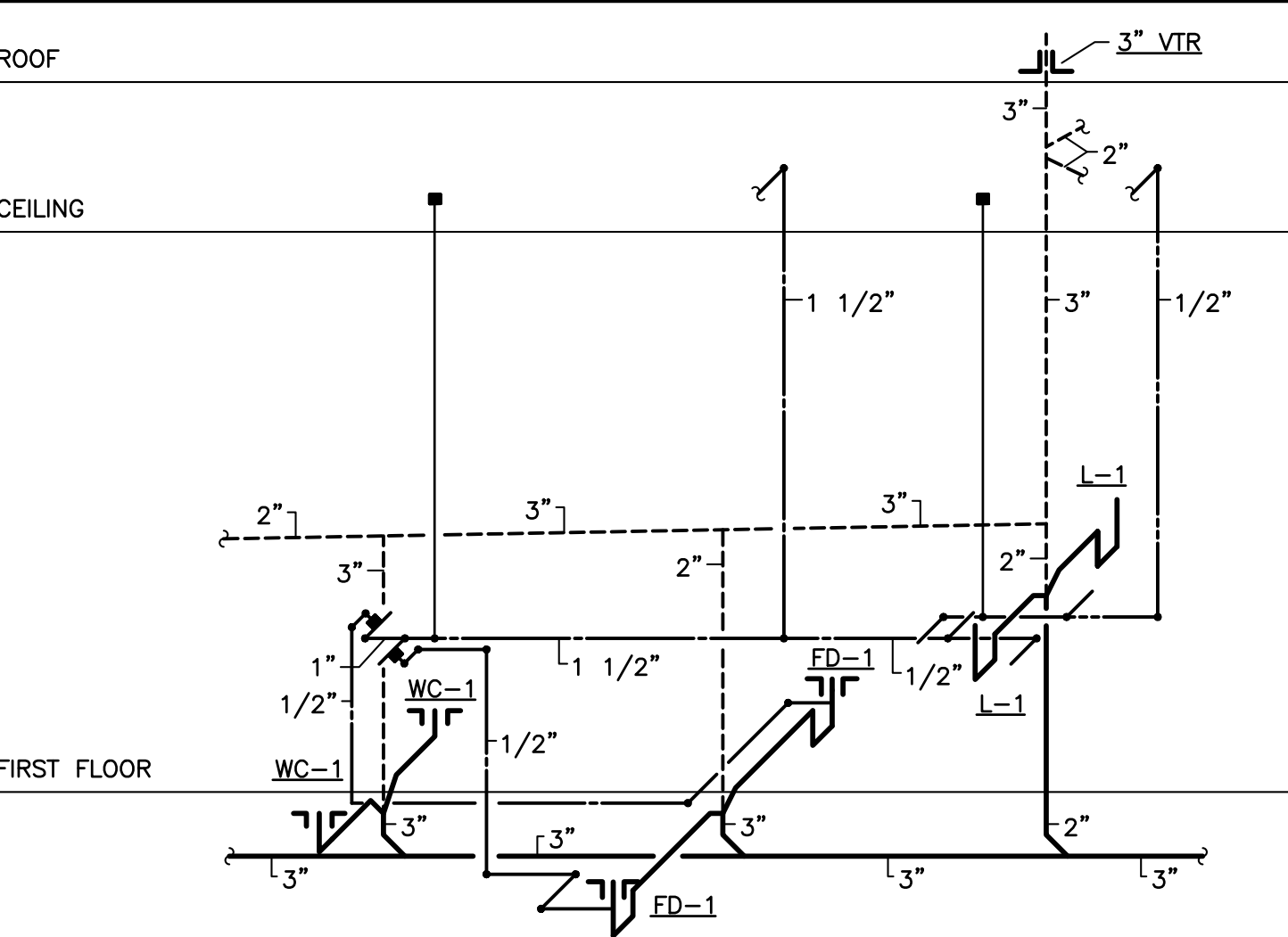
A109
ENLARGED PLANS
& INTERIOR
ELEVATIONS

PLUMBING FIXTURE SCHEDULE

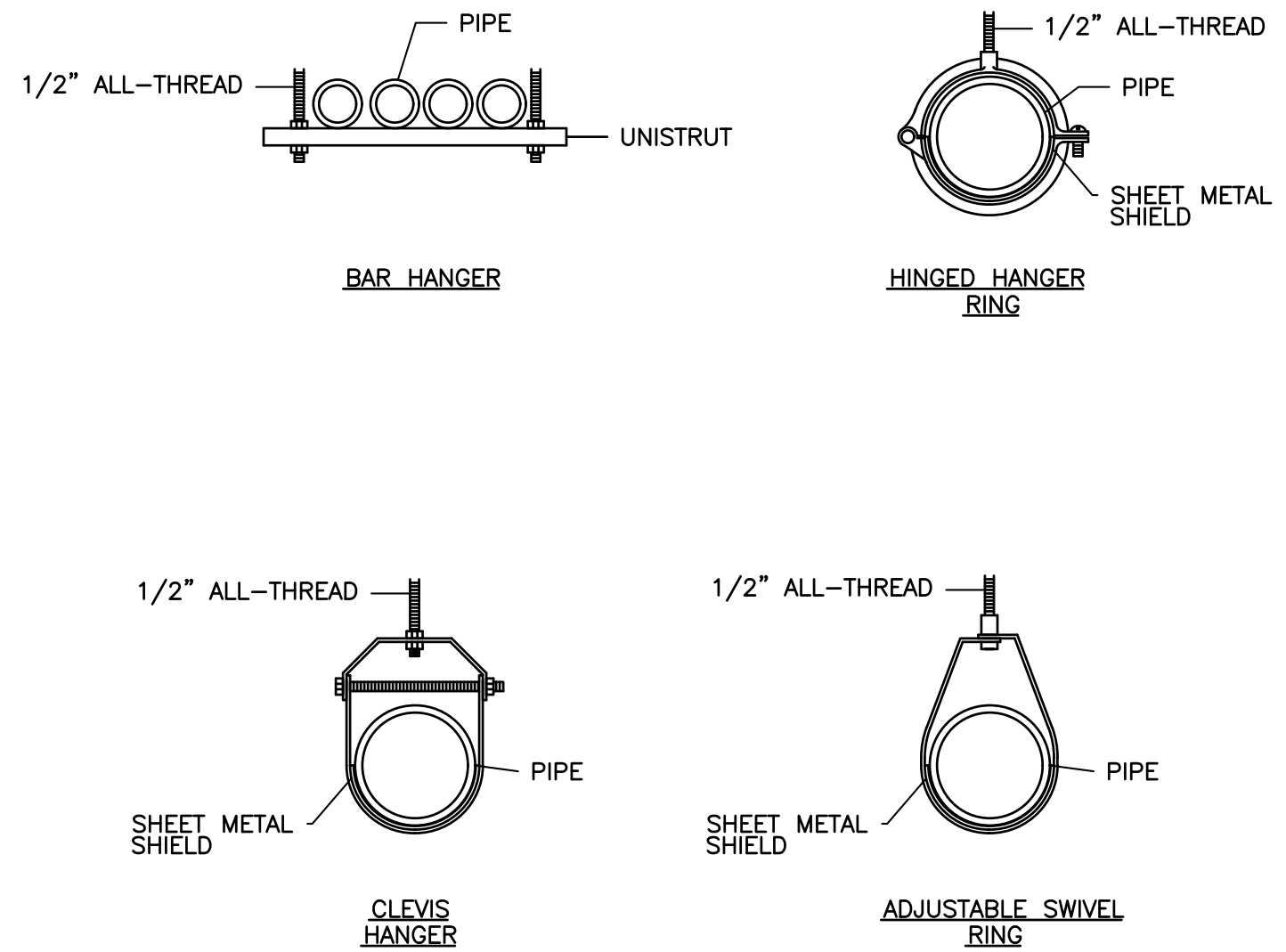
MARK	DESCRIPTION	MAKE	MODEL	SUPPLY FITTING	SUPPLY PIPE(S)	DRAIN	TRAP	ROUGH-IN SIZES					REMARKS
								C.W.	H.W.	WASTE	VENT	TRAP	
WC-1	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE, A.D.A., W/TRAP PRIMER	KOHLER	K-96057	ZURN Z-6000AV-WS1-TP	----	----	----	1"	----	3"	2" or 3"	INT.	W/ BEMIS 1055SSC WHITE SEAT, W/ BOLT CAPS. MODIFY FLUSH VALVE AS REQUIRED FOR HANDRAIL. PROVIDE TRAP PRIMER WHERE SHOWN ON PLANS.
L-1	LAVATORY, RECTANGULAR COUNTER MOUNTED, A.D.A.	KOHLER	K-2991-4	DELTA 22C151	ZURN ZH8824LR	ZURN Z-8746	ZURN Z8710BN	1/2"	1/2"	2"	2"	1 1/4"	COORDINATE ROUGH-IN WITH DRAIN ASSEMBLY. INSULATE DRAIN, P-TRAP AND SUPPLY PIPES WITH TRAP WRAP C500-RHS.
S-1	SINK, STAINLESS STEEL, SINGLE COMPARTMENT 19 1/2"x19"x7 1/2"	ELKAY	LRQ-1919	DELTA 26C3954	ZURN ZH8824LR	ELKAY LK-35	ZURN Z8702BN	1/2"	1/2"	2"	2"	1 1/2"	
SH-1	SHOWER FITTINGS, A.D.A.	DELTA	DELTA T13H153 R10000UNWS	----	----	----	----	1/2"	1/2"	----	----	----	WITH 1.5 gpm SHOWER HEAD, MOUNTING BAR, METAL HOSE AND VACUUM BREAKER.
LSD-1	LINEAR SHOWER DRAIN STAINLESS STEEL	ZURN	ZS-880-48	----	----	----	----	----	----	2"	2"	2"	
FD-1	FLOOR DRAIN POLISHED BRONZE W/ TRAP PRIMER CONNECTION	ZURN	ZB-415-B-P	----	----	----	----	----	----	3"	2"	3"	
FD-2	FLOOR DRAIN W/POLISHED BRONZE EXTENDED RIM TOP	ZURN	ZB-415-I	----	----	----	----	----	----	3"	2"	3"	

STANDARD PLUMBING LEGEND

DOMESTIC COLD WATER _____
DOMESTIC 110° HOT WATER _____
SANITARY SEWER PIPING _____
EXISTING SANITARY SEWER PIPING _____SS_____
VENT PIPING _____
CONNECT TO EXISTING _____



PLUMBING RISER
NO SCALE



PIPE HANGER DETAIL
NO SCALE



BRANDON
BIG ROOM
RENOVATION
- PHASE 03
CITY OF BRANDON
1000 Municipal Dr,
Brandon, MS 39042



06/11/26

ISSUED FOR
CONSTRUCTION
WBA # 24-040.1

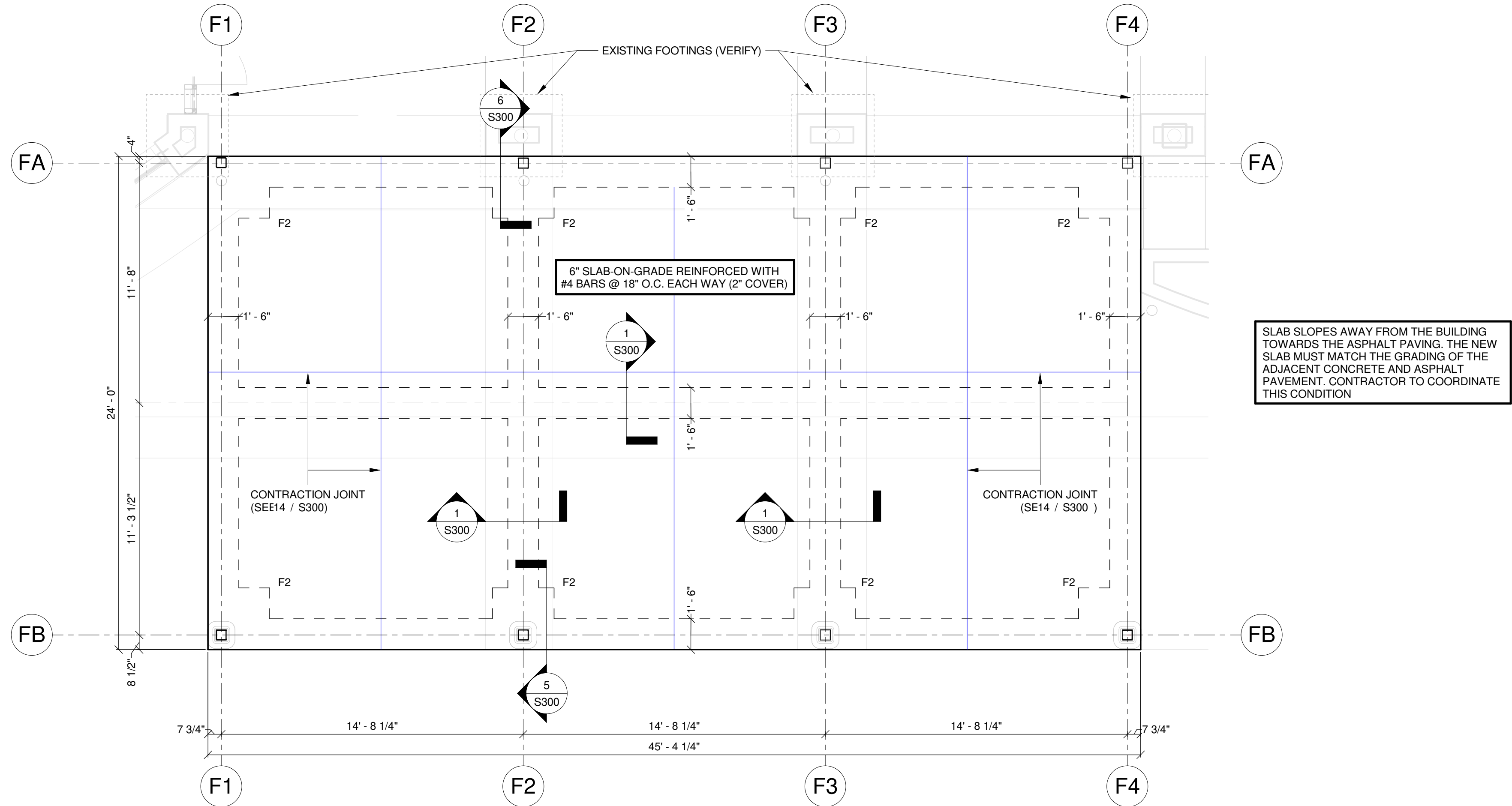
REVISIONS		
NO.	DESCRIPTION	DATE
1	REVISED TAG	8/12/2026

SCWA JOB#: 26-034

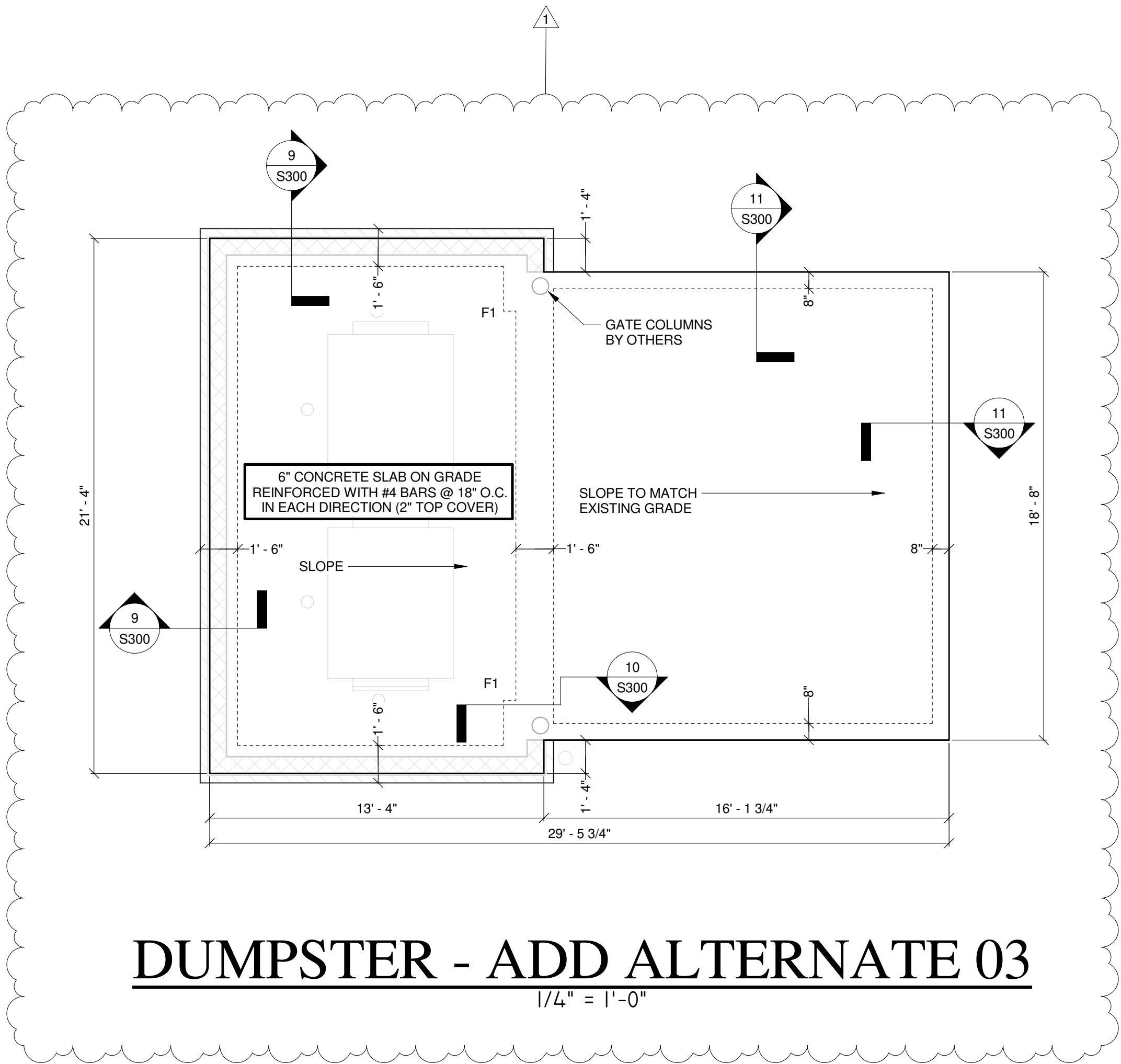
Scott C. Woods and Associates

112 Lone Wolf Dr./Madison, Ms 39110
Ph. (601)859-9864/Fax (601)859-2564/Email www.scweng.com

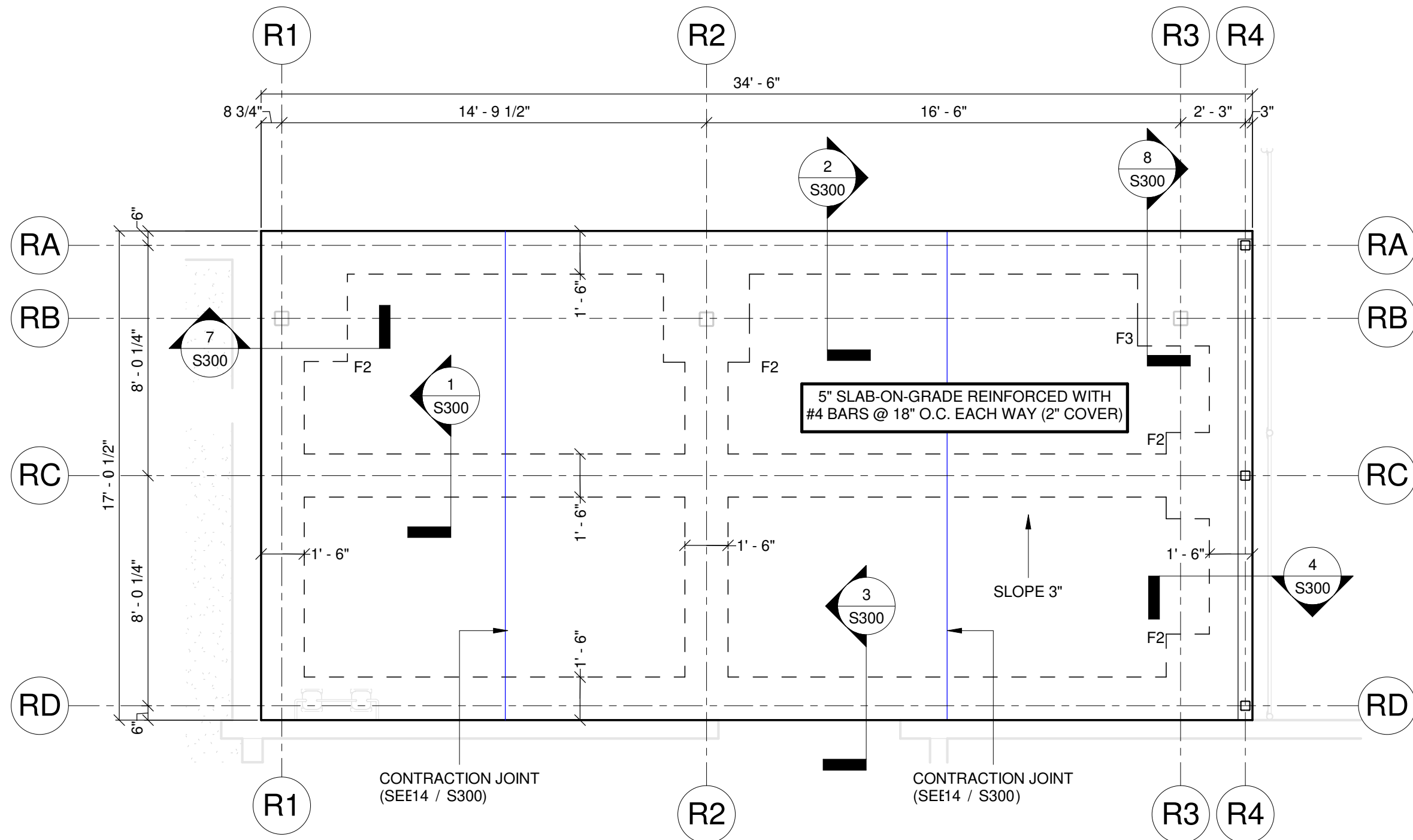
P003
PLUMBING LEGEND,
SCHEDULE AND
DETAILS



FRONT CANOPY FOUNDATION PLAN - ADD ALTERNATE 01
1/4" = 1'-0"



DUMPSTER - ADD ALTERNATE 03
1/4" = 1'-0"



REAR CANOPY FOUNDATION PLAN
1/4" = 1'-0"

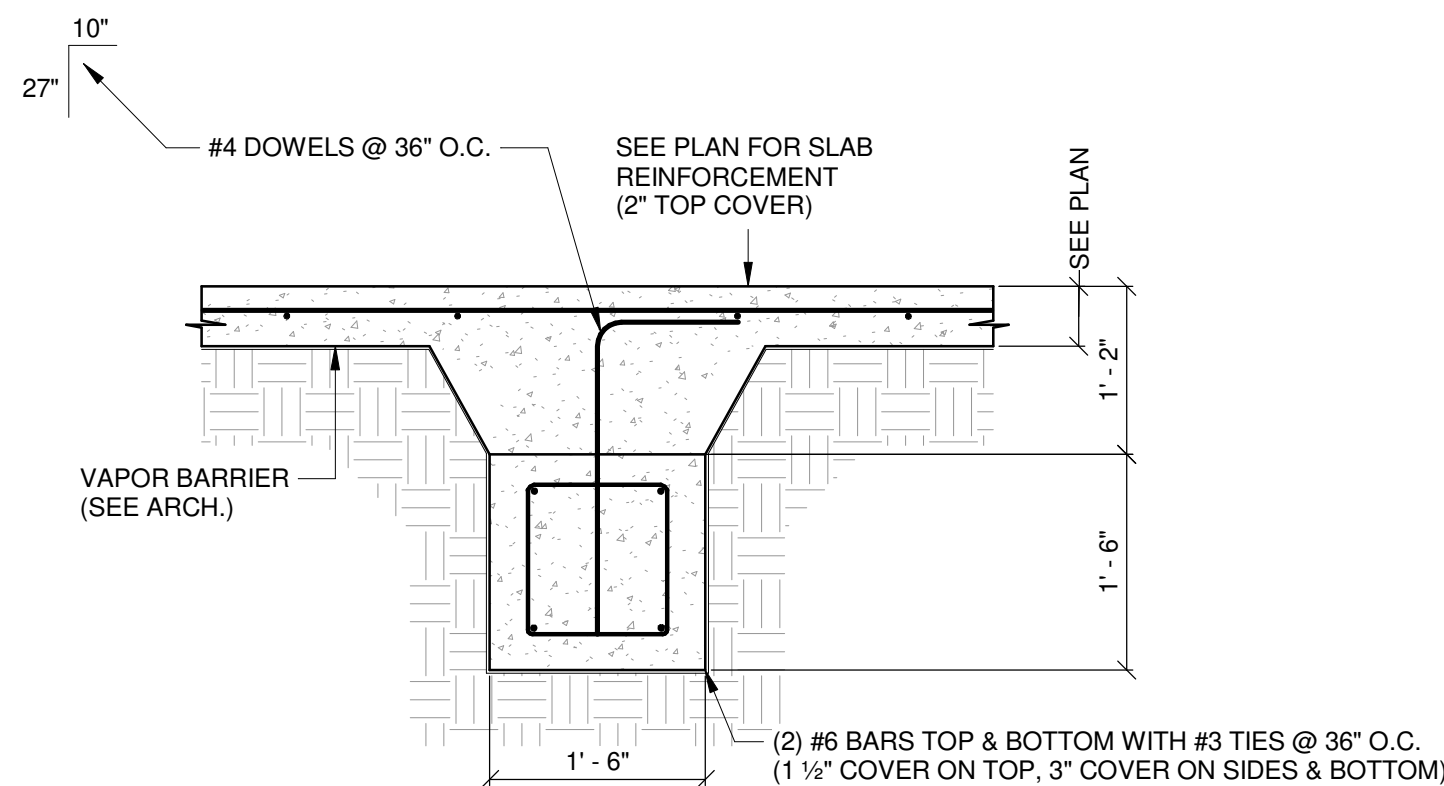
FOOTING SCHEDULE			
FOOTING	THICKNESS	SIZE	REINFORCEMENT
F1	12"	2'X2'	(3) #6 BARS EACH WAY (BOTTOM)
F2	18"	3'X3'	(4) #5 BARS EACH WAY (BOTTOM)
F3	18"	4'X4'	(5) #5 BARS EACH WAY (BOTTOM)



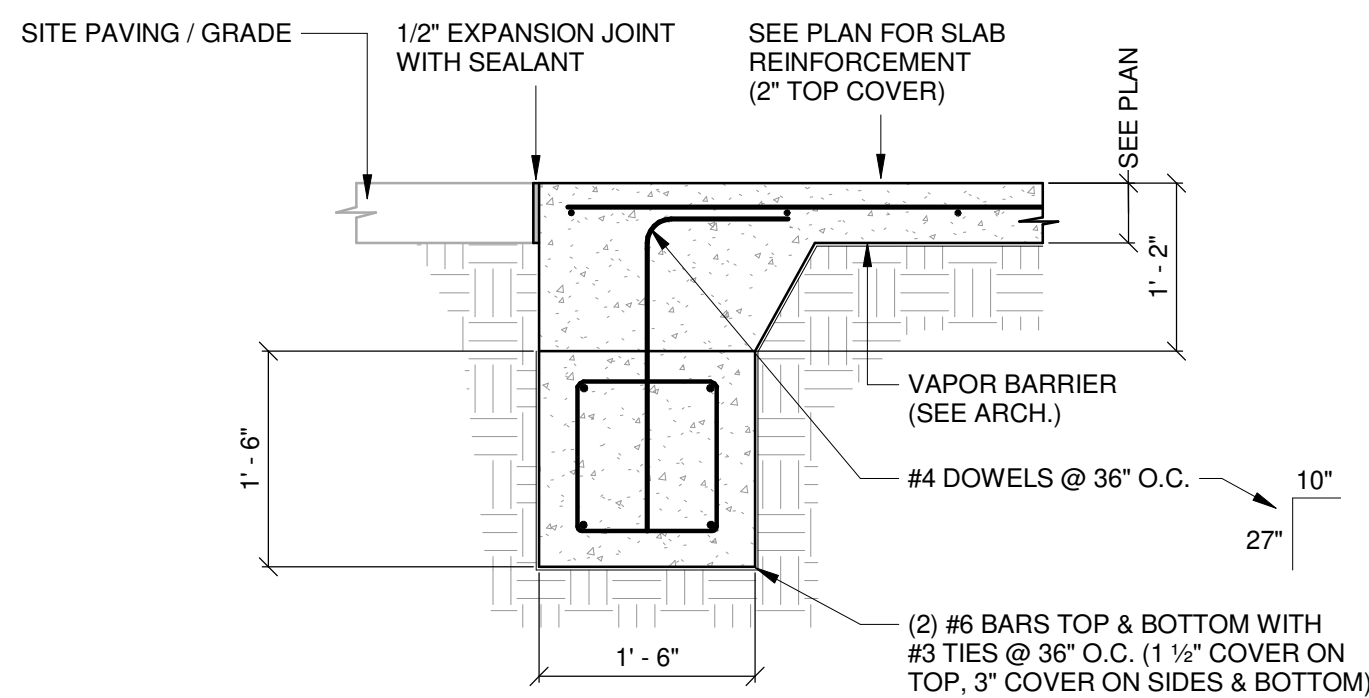
6/11/2026

**CONSTRUCTION
DOCUMENTS**
WBA # 24-040.1

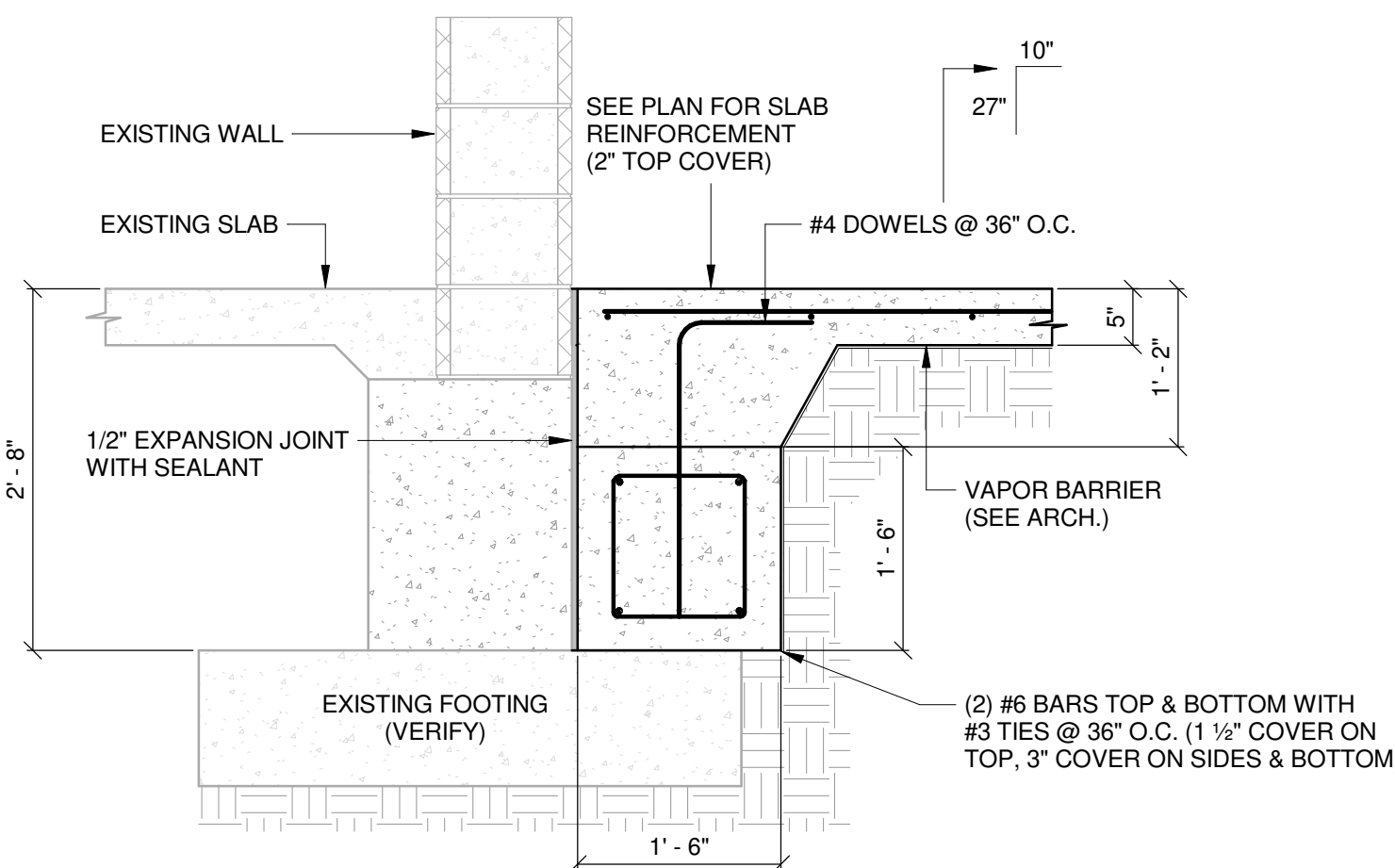
REVISIONS		
NO.	DESCRIPTION	DATE
1	Revision 01	8-13-26



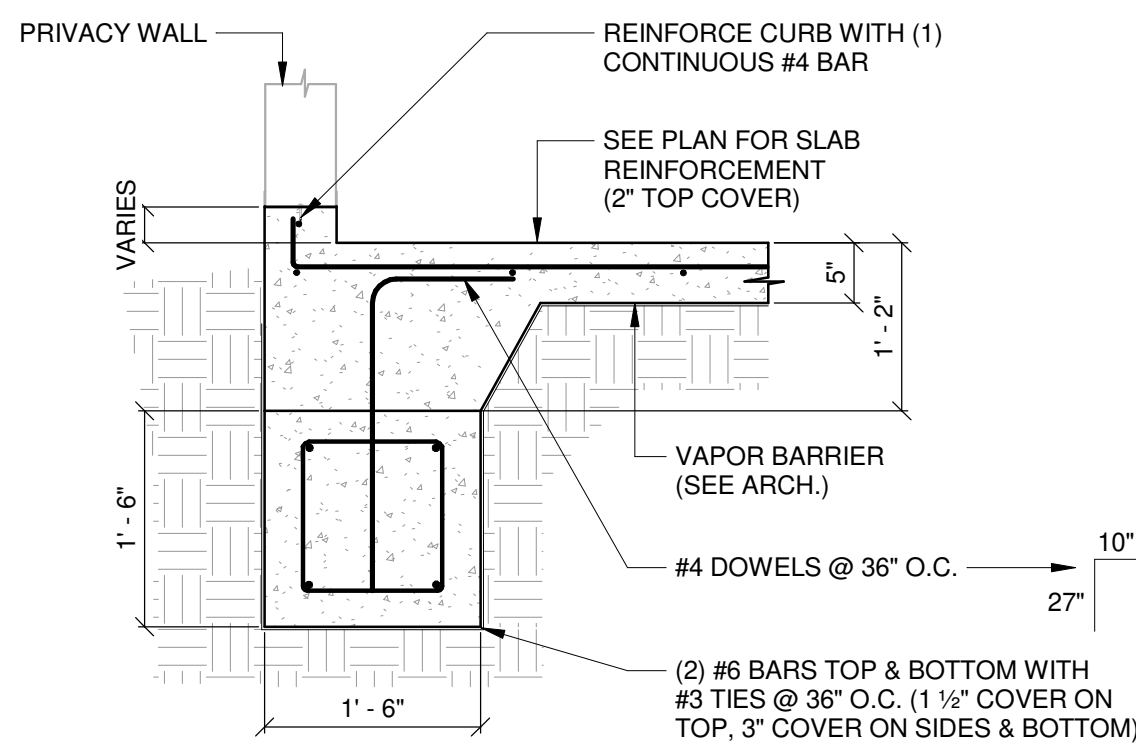
1
S300
INTERIOR GRADE BEAM SECTION
3/4" = 1'-0"



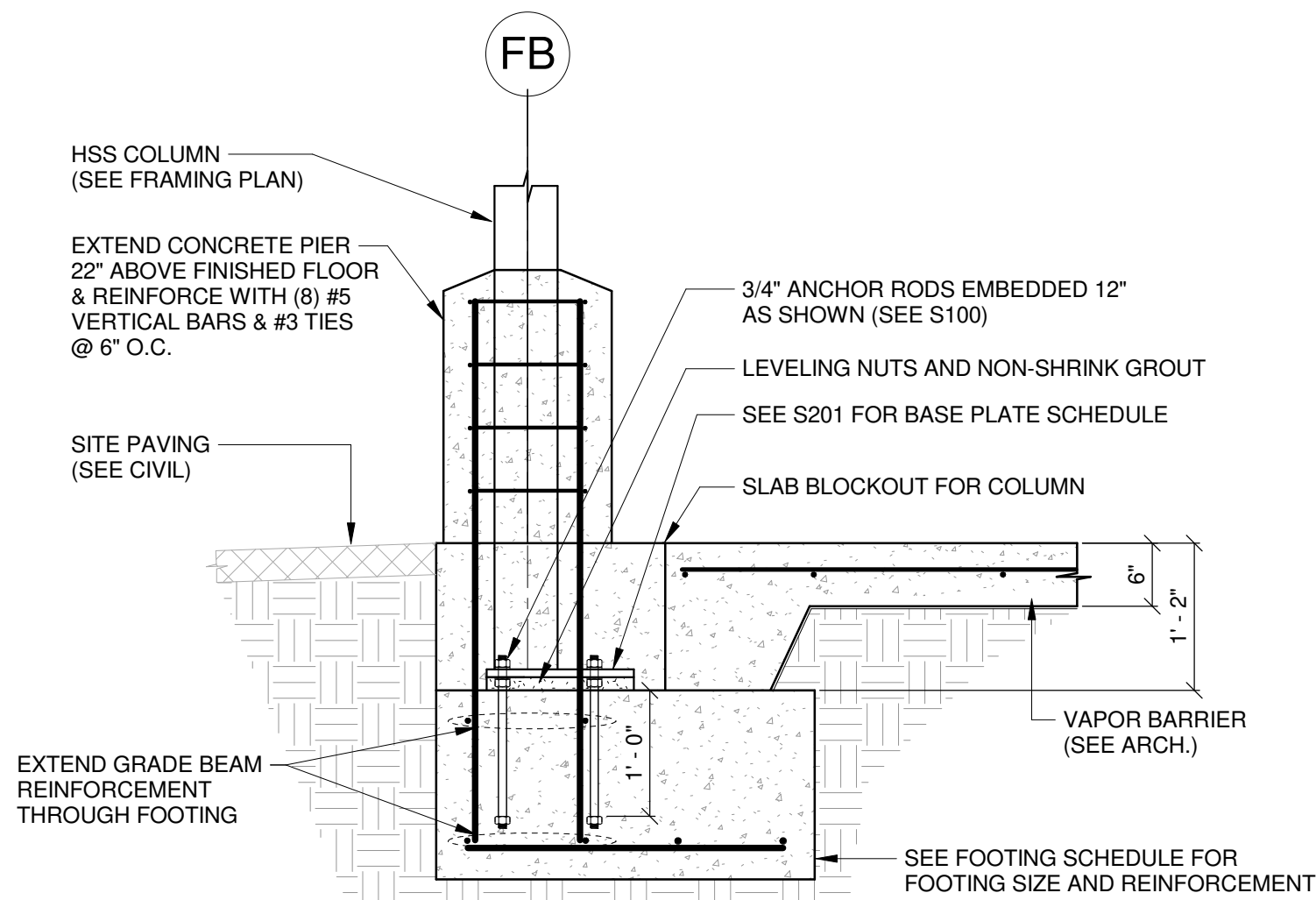
2
S300
EXTERIOR GRADE BEAM SECTION
3/4" = 1'-0"



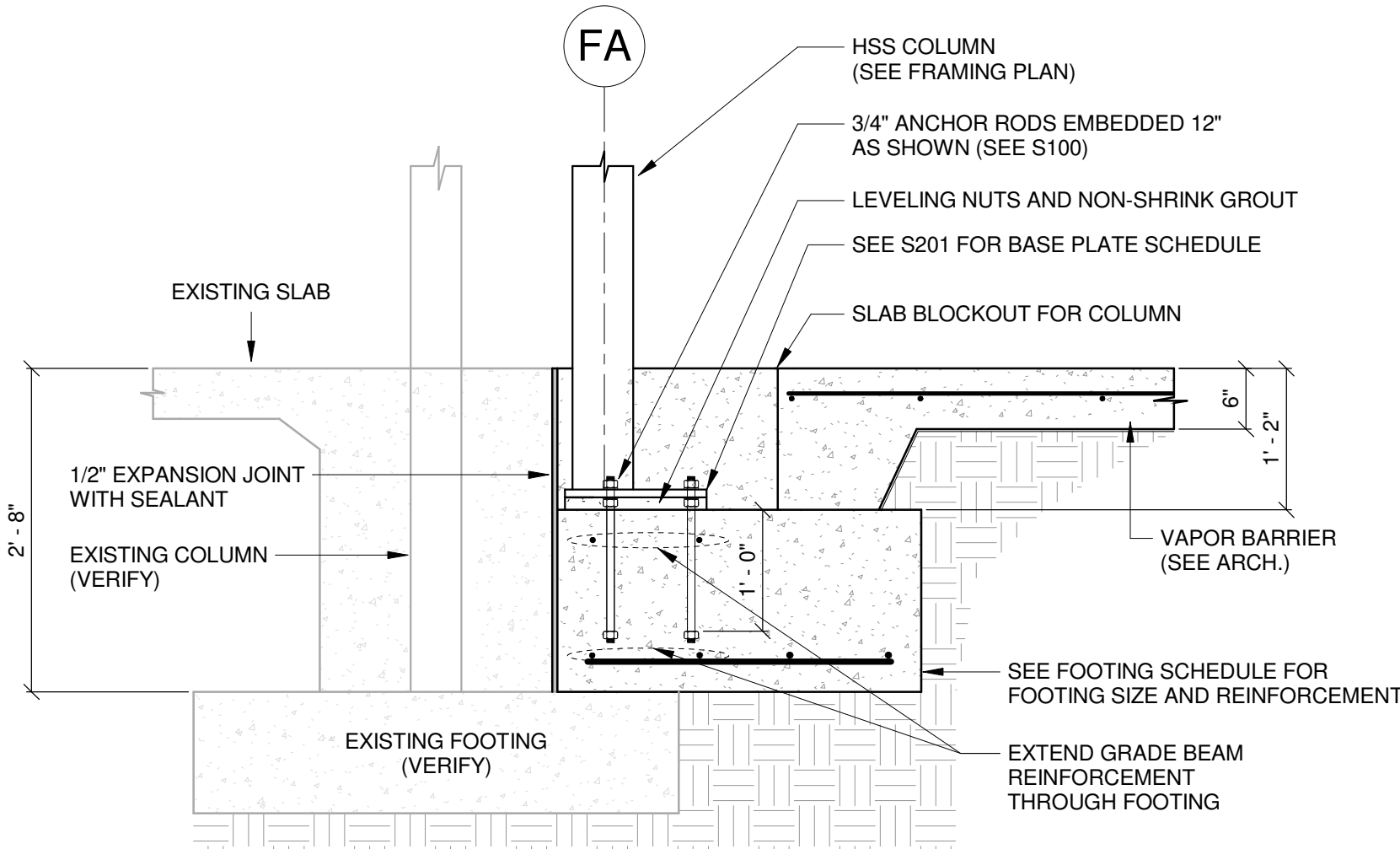
3
S300
EXTERIOR GRADE BEAM SECTION AT REAR CANOPY EXISTING WALL
3/4" = 1'-0"



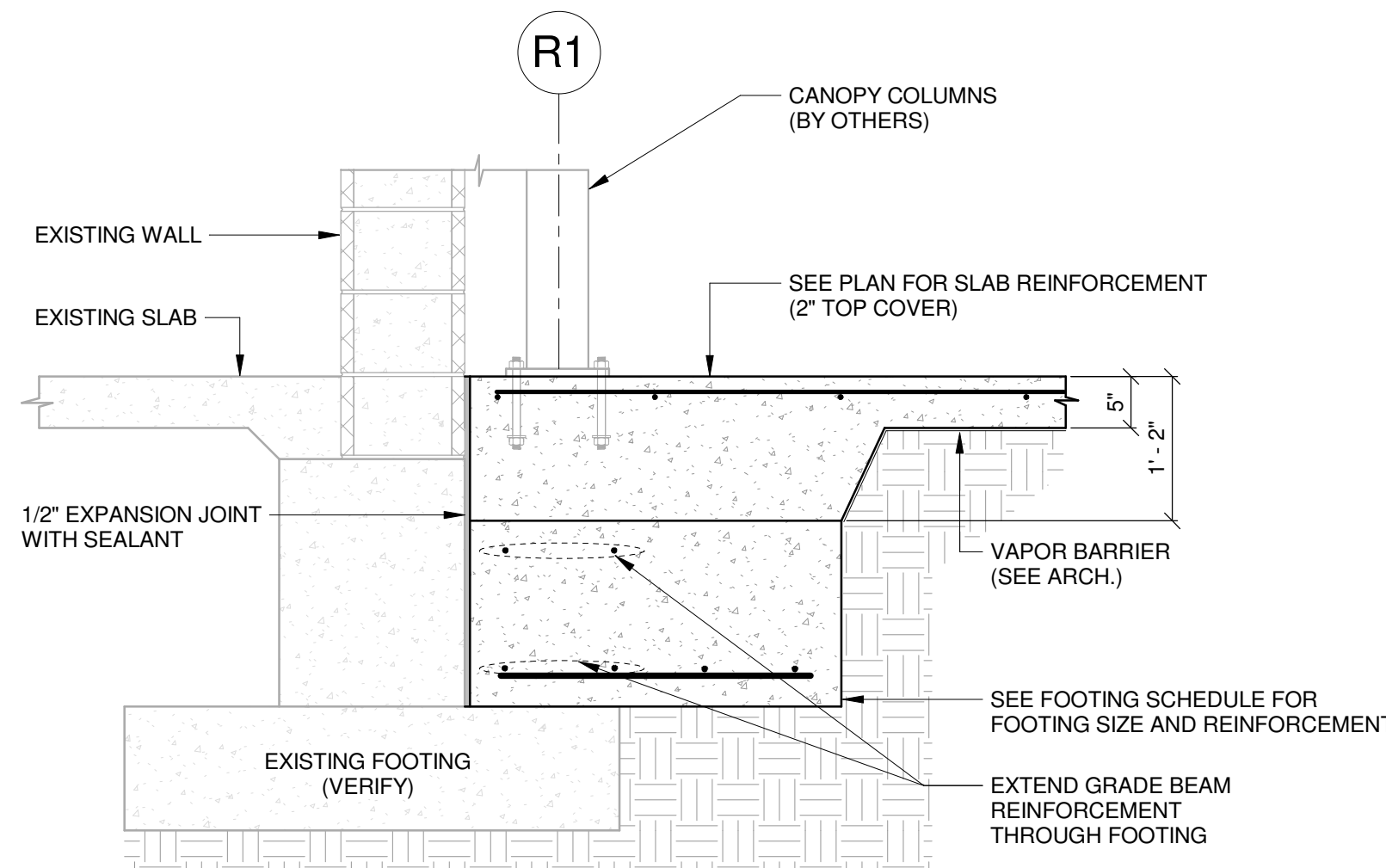
4
S300
EXTERIOR GRADE BEAM SECTION AT REAR CANOPY PRIVACY WALL
3/4" = 1'-0"



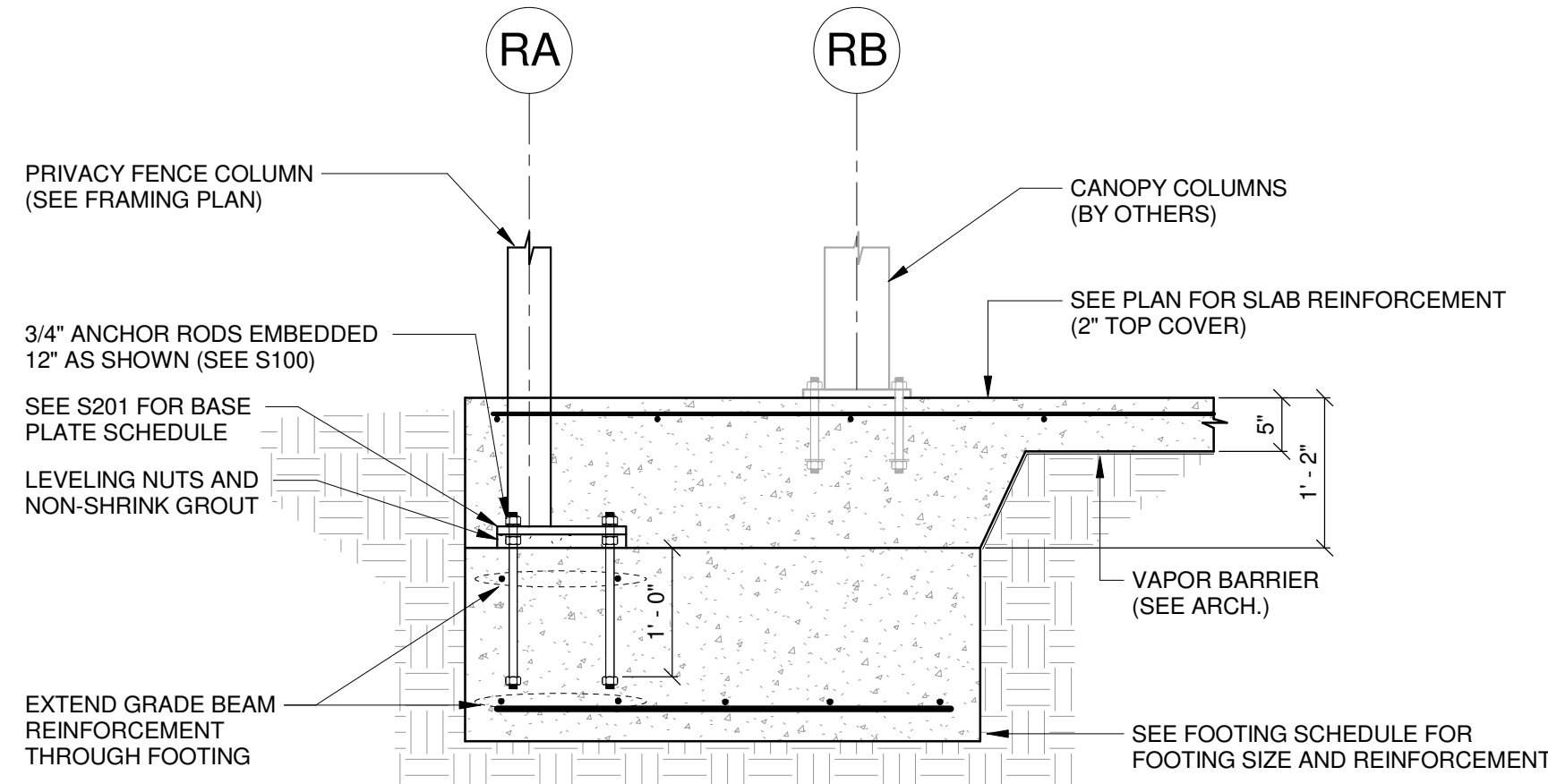
5
S300
FRONT CANOPY FOOTING 1
3/4" = 1'-0"



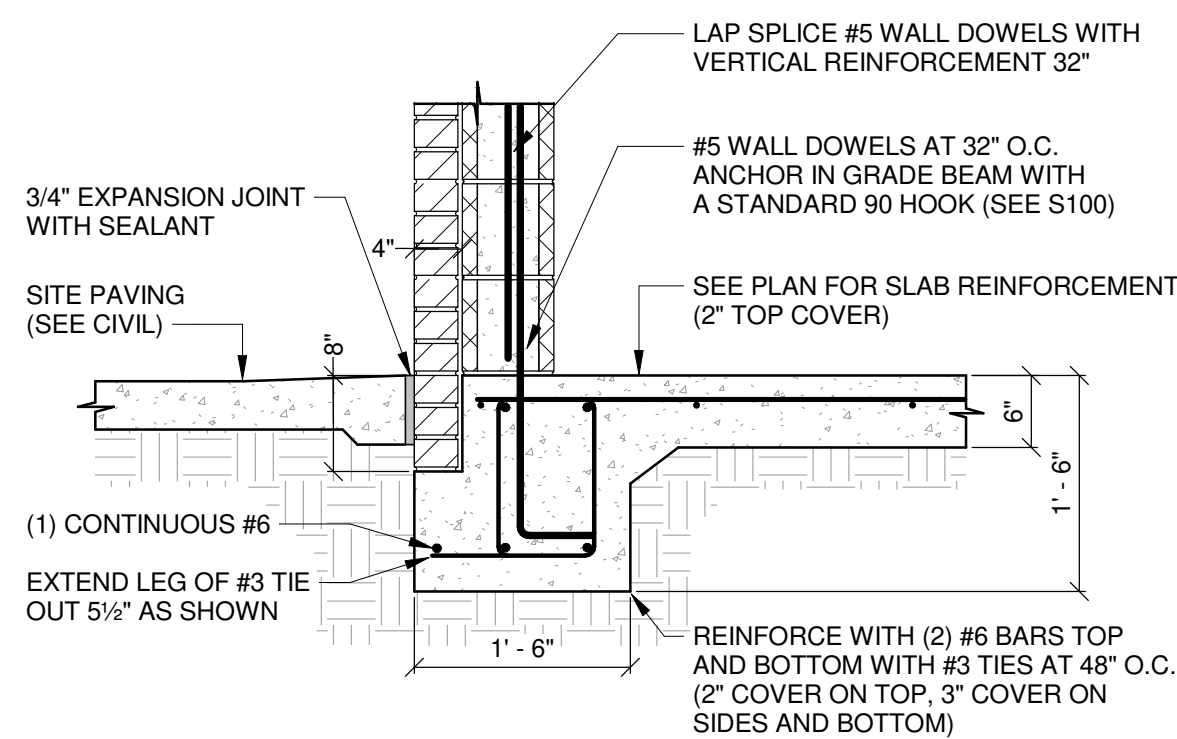
6
S300
FRONT CANOPY FOOTING 2
3/4" = 1'-0"



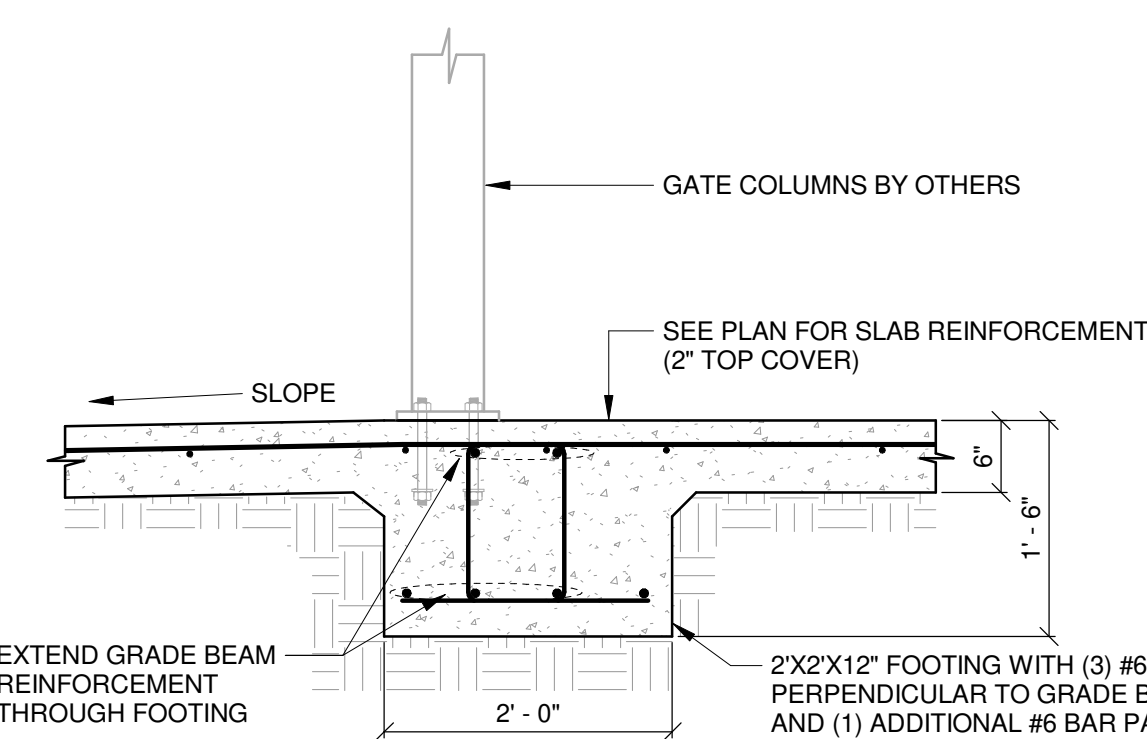
7
S300
REAR CANOPY FOOTING 1
3/4" = 1'-0"



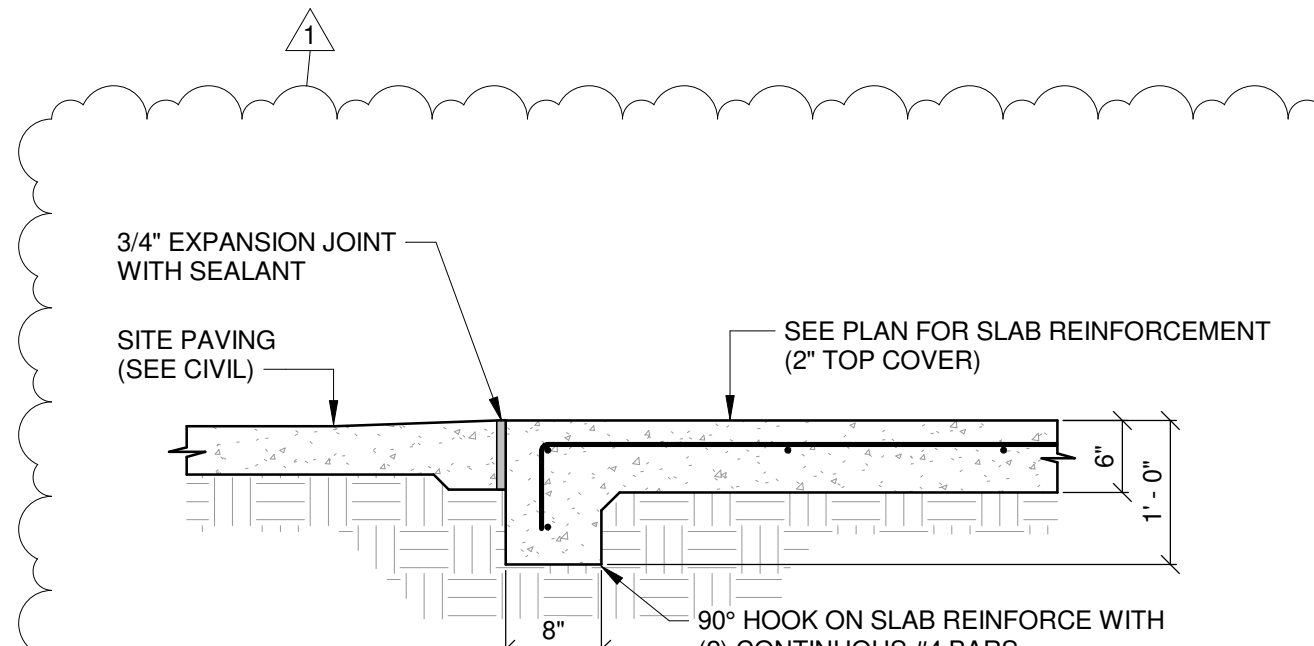
8
S300
REAR CANOPY FOOTING 2
3/4" = 1'-0"



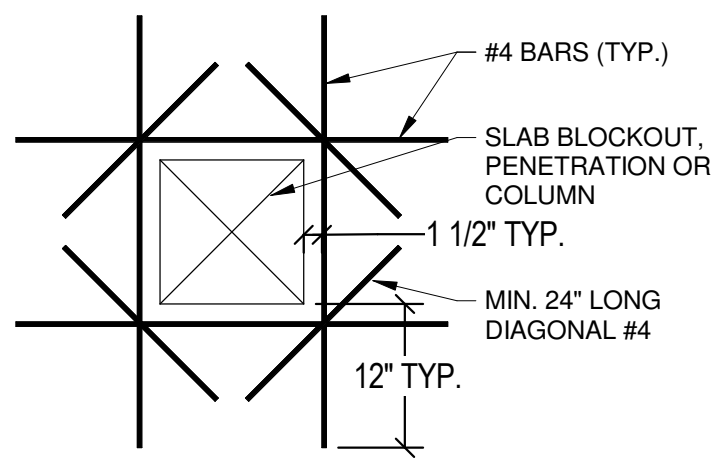
9
S300
DUMPSTER GRADE BEAM AT CMU WALL SECTION
3/4" = 1'-0"



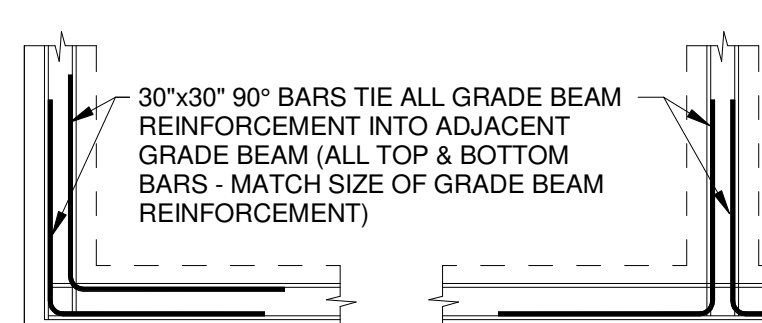
10
S300
DUMPSTER FOOTING AT GATE COLUMN
3/4" = 1'-0"



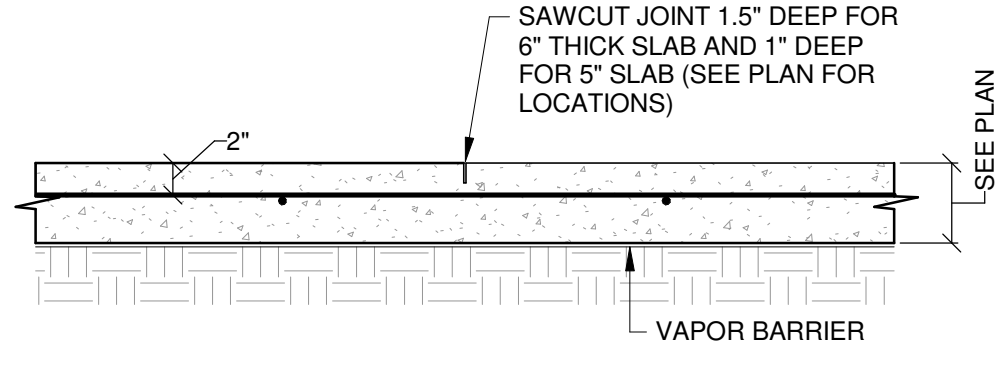
11
S300
DUMPSTER GRADE BEAM AT EXTERIOR SLAB SECTION
3/4" = 1'-0"



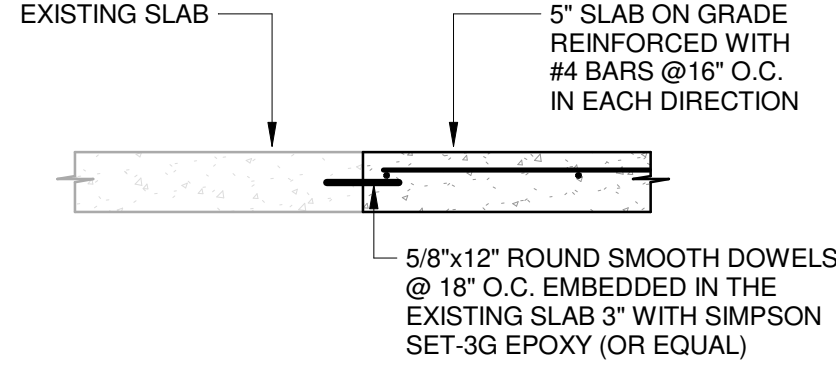
12
S300
SLAB PENETRATION DETAIL
3/4" = 1'-0"



13
S300
GRADE BEAM INTERSECTION
3/8" = 1'-0"



14
S300
CONTRACTION JOINT
1" = 1'-0"



15
S300
BATHROOM SLAB
3/4" = 1'-0"

ALL EXISTING CONDITIONS MUST BE VERIFIED.
NOTIFY THE STRUCTURAL ENGINEER IF EXISTING
CONDITIONS VARY FROM WHAT IS SHOWN.

Advertisement for Bids

SECTION 00.1113 - ADVERTISEMENT FOR BIDS

FROM:

1. THE OWNER (HEREINAFTER REFERRED TO AS OWNER):
 - A. The City of Brandon, Mississippi
2. AND THE ARCHITECT (HEREINAFTER REFERRED TO AS ARCHITECT):
 - A. Wier Boerner Allin Architecture
3. TO: POTENTIAL BIDDERS
 - A. Your firm is invited to submit an offer under seal to Owner for construction of a renovation located at 1000 Municipal Drive, Brandon, MS 39042 before 2 pm local standard time on the 28th day of August, 2026, for:
 - B. Project Description: Brandon Civic Center (Big Room) Renovations Phase 3. Architect's Project Number 24-040.1. Owner's Bid Number 2026-12..
 - C. Contract Documents may be obtained at Jackson Blueprint & Supply, Inc. 699 Monroe Street Jackson, MS 39202 (601) 353-5803 www.planroom.jaxblue.com Bidders are responsible for all costs associated with downloading digital plans and/or printing costs (if requested).
 - D. Refer to other bidding requirements described in Document 00.2113 - Instructions to Bidders and Document 00.3100 - Available Project Information.
 - E. Submit your offer on the Bid Form provided. Include Bid Number 2026-12 marked on the lower left corner of the envelope. Bidders may supplement this form as appropriate.
 - F. The City of Brandon also offers electronic bidding submissions. All documents may be downloaded from Central Bidding at www.centralbidding.com. For any questions regarding the electronic process, please call Central Bidding at (225)810-4814.
 - G. Your offer will be required to be submitted under a condition of irrevocability for a period of 60 days after submission.
 - H. The Owner reserves the right to accept or reject any or all offers.
4. SIGNATURE
 - A. For: The City of Brandon, Mississippi
 - B. By: Butch Lee, Mayor
 1. Signed: _____
 2. (Authorized signing officer)
5. DATES OF PUBLICATION:
 - A. 1st advertisement: July 29, 2025
 - B. 2nd advertisement: August 5, 2025

END OF SECTION 00.1113

Instructions to Bidders

SECTION 00.2113 - INSTRUCTIONS TO BIDDERS

SUMMARY

1. DOCUMENT INCLUDES
 - A. Invitation
 - B. Bid Documents and Contract Documents
 - C. Site Assessment
 - D. Qualifications
 - E. Bid Submission
 - F. Bid Enclosures/Requirements
 - G. Offer Acceptance/Rejection
2. RELATED DOCUMENTS
 - A. Document 00.1113 - Advertisement for Bids.
 - B. Document 00.4100 - Bid Form.
 - C. Document 00.7300 - Supplementary Conditions:

INVITATION

1. BID SUBMISSION
 - A. Bids signed and under seal, executed, and dated will be received at the office of The City of Brandon, Mississippi - Office of the Circuit Clerk at or before 2 p.m. local standard time on the 7th day of January, 2026.
 - B. Offers submitted after the above time shall be returned to the bidder unopened.
 - C. Offers will be opened publicly immediately after the time for receipt of bids.
 - D. Amendments to the submitted offer will be permitted if received in writing prior to bid closing and if made on the Bid Proposal Form and included in the sealed envelope.
 - E. Telegraphic Bid Modification and Modifications on the sealed envelope face will not be considered.
2. INTENT
 - A. The intent of this Bid request is to obtain an offer to perform work to complete the Project as described in the Contract Documents for a Stipulated Sum contract, in accordance with the Contract Documents.
3. WORK IDENTIFIED IN THE CONTRACT DOCUMENTS
 - A. Work of this proposed Contract comprises building construction, including general construction Work.
4. CONTRACT TIME
 - A. Perform the Work within the time stated on the Bid Form.
 - B. The bidder, in submitting an offer, accepts the Contract Time period stated for performing the Work. The completion date in the Agreement shall be the Contract Time added to the commencement date.

BID DOCUMENTS AND CONTRACT DOCUMENTS

1. DEFINITIONS
 - A. Bid Documents: Contract Documents supplemented with Invitation To Bid, Instructions to Bidders, Information Available to Bidders, Bid Form Supplements To Bid Forms and Appendices identified.
 - B. Contract Documents: Defined in AIA A201 Article 1 including issued Addenda.
 - C. Bid, Offer, or Bidding: Act of submitting an offer under seal.
 - D. Bid Amount: Monetary sum identified by the Bidder in the Bid Form.
2. CONTRACT DOCUMENTS IDENTIFICATION
3. AVAILABILITY
 - A. Contract Documents may be obtained at Jackson Blueprint & Supply, Inc. 699 Monroe Street Jackson, MS 39202 (601) 353-5803 www.planroom.jaxblue.com Bidders are responsible for all costs associated with downloading digital plans and/or printing costs (if requested).

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Instructions to Bidders

- B. Bid Documents are made available only for the purpose of obtaining offers for this project. Their use does not grant a license for other purposes.
- C. Bid documents will be issued in complete sets only. No partial printings of specifications sections or trade specific drawings will be issued.
- 4. EXAMINATION
 - A. Upon receipt of Bid Documents verify that documents are complete. Notify Architect should the documents be incomplete.
 - B. Immediately notify Architect upon finding discrepancies or omissions in the Bid Documents.
- 5. INQUIRIES/ADDENDA
 - A. Direct questions to Dylan Baker, email; dbaker@wbaarchitecture.com.
 - B. Addenda may be issued during the bidding period. All Addenda become part of Contract Documents. Include resultant costs in the Bid Amount.
 - C. Verbal answers are not binding on any party.
 - D. Clarifications requested by bidders must be in writing not less than 7 days before date set for receipt of bids. The reply will be in the form of an Addendum, a copy of which will be forwarded to known recipients and _____.
- 6. PRODUCT/ASSEMBLY/SYSTEM SUBSTITUTIONS
 - A. Substitutions will NOT be considered prior to submission of bids. Substitute products will only be considered as part of the submittal process of the awarded bidder.
 - B. In considering substitutions to products specified, bidders shall include in their bid all changes required in the Work and changes to Contract Time and Contract Sum to accommodate such substitutions. A later claim by the bidder for an addition to the Contract Time or Contract Sum because of changes in work necessitated by use of substitutions shall not be considered.
 - C. The submission shall provide sufficient information to determine acceptability of such products.
 - D. Provide complete information on required revisions to other work to accommodate each proposed substitution.
 - E. Provide products as specified unless substitutions are submitted in this manner and accepted.
 - F. See Section 01.6000 - Product Requirements for additional requirements.

SITE ASSESSMENT

- 1. SITE EXAMINATION
 - A. Examine the project site before submitting a bid.
- 2. PREBID CONFERENCE
 - A. A bidders conference has been scheduled for 2 p.m. on the 16th day of December, 2025 at the location of the Project. 1000 Municipal Drive, Brandon, MS..
 - B. All general contract bidders and suppliers are invited.
 - C. Representatives of Architect will be in attendance.
 - D. Summarized minutes of this meeting will be circulated to attendees. These minutes will form part of Contract Documents.

QUALIFICATIONS

- 1. CERTIFICATE OF RESPONSIBILITY NUMBER
 - A. Each Contractor submitting a bid exceeding \$50,000.00 must show on his bid, and on the face of the envelope containing the bid, his Certificate of Responsibility Number, as required by General Laws of Mississippi 1985, and in accordance with Sections 25 43 1 through 25 43 19, Mississippi Code of 1972. If the bid does not exceed the above stated amounts, a notation so stating must appear on the face of the envelope.

BID SUBMISSION

- 1. SUBMISSION PROCEDURE
 - A. Bidders shall be solely responsible for the delivery of their bids in the manner and time prescribed.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Instructions to Bidders

- B. Submit one copy of the executed offer on the Bid Forms provided, signed and sealed with the required security in a closed opaque envelope, clearly identified with bidder's name, project name and Owner's name on the outside. Include Bid Number 2025-14 marked on the lower left corner of the envelope.
- 2. **BID INELIGIBILITY**
 - A. Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may at the discretion of the Owner, be declared unacceptable.
 - B. Bid Forms, Appendices, and enclosures that are improperly prepared may, at the discretion of Owner, be declared unacceptable.
 - C. Failure to provide security deposit, bonding or insurance requirements may, at the discretion of Owner, be waived.

BID ENCLOSURES/REQUIREMENTS

- 1. **FORM**
 - A. Form: Make all Proposals on forms provided and fill all applicable blank spaces without interlineations, alteration or erasure and must not contain recapitulation of the work to be done. No oral, telegraphic, or telephone proposals will be considered. Any addenda issued during the bidding shall be noted on the Proposal Form.
- 2. **SECURITY DEPOSIT**
 - A. Bids shall be accompanied by a security deposit as follows:
 - 1. Bid Bond or certified check of a sum no less than 5 percent of the Bid Amount on AIA A310 Bid Bond Form.
 - B. Endorse the Bid Bond in the name of the Owner as obligee, signed and sealed by the principal (Contractor) and surety.
 - C. The security deposit will be returned after delivery to the Owner of the required Performance and Payment Bond(s) by the accepted bidder.
 - D. Include the cost of bid security in the Bid Amount.
 - E. If no contract is awarded, all security deposits will be returned.
- 3. **CONSENT OF SURETY**
 - A. Submit with the Bid: _____.
- 4. **PERFORMANCE ASSURANCE**
 - A. Accepted Bidder: Provide a Performance bond as described in 00.7300 - Supplementary Conditions.
 - B. Include the cost of performance assurance bonds in the Bid Amount.
- 5. **BID FORM REQUIREMENTS**
 - A. Complete all requested information in the Bid Form and Appendices.
- 6. **BID MODIFICATIONS**
 - A. Telegraphic Bid Modification will not be allowed.

OFFER ACCEPTANCE/REJECTION

- 1. **DURATION OF OFFER**
 - A. Bids shall remain open to acceptance and shall be irrevocable for a period of sixty (60) days after the bid closing date.
- 2. **ACCEPTANCE OF OFFER**
 - A. Owner reserves the right to accept or reject any or all offers.
 - B. Contract will be awarded on the basis of the best bid received based on Owner's and Architect's evaluation of the bid, prior performance of bidder and it's proposed subcontractor and suppliers. The Owner reserves the right to award based on the Owner's evaluation of the bid. The Owner reserves the right to waive irregularities and to reject any and/or all bids.
 - C. The Owner shall have the right to accept alternates in any order or combination and to determine the successful Bidder on the basis of the alternates accepted.
- 3. **SECURITY FOR FAITHFUL PERFORMANCE**
 - A. Simultaneously with his delivery of the Executed Contract, the Contractor shall furnish a surety bond as security for faithful performance of this Contract and for the payment of all persons performing labor on the project under this

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Instructions to Bidders

Contract and furnishing materials in connection with this Contract. The surety on such bond or bonds shall be a duly authorized surety company, satisfactory to the Owner.

4. LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT

- A. The successful Bidder, upon his failure or refusal to execute and deliver the contract, bond, and insurance required within ten (10) days after he has received notice of acceptance of his bid, shall forfeit to the Owner as liquidated damages, the security deposited with his bid.

END OF SECTION 00.2113

Bid Form

SECTION 00.4100 - BID FORM

THE PROJECT AND THE PARTIES

1. TO:
 - A. Owner
 1. City of Brandon, Mississippi
 2. 1000 Municipal Drive, Brandon, MS 39042
2. FOR:
 - A. Brandon Big Room Renovations (Architect's Proj # 24-040.2) (Owner's Bid Number 2025-14)
3. DATE: _____ (BIDDER TO ENTER DATE)
4. SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)
 - A. Bidder's Full Name _____
 1. Address _____
 2. City, State, Zip _____
5. OFFER
 - A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by WBA Architecture, PLLC. for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
 - B. _____ dollars (\$ _____), in lawful money of the United States of America.
 - C. We have included the required security deposit as required by the Instruction to Bidders.
 - D. We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.
 - E. All applicable federal taxes are included and State of Mississippi taxes are included in the Bid Sum.
 - F. All Cash and Contingency Allowances described in Section 01.2100 - Allowances are included in the Bid Sum.
 - G. ALTERNATES:
 1. ALTERNATE #1 (ADD or DEDUCT): \$ _____
 - a. (amount in words) _____
 2. ALTERNATE #2A (ADD or DEDUCT): \$ _____
 - a. (amount in words) _____
 3. ALTERNATE #2B (ADD or DEDUCT): \$ _____
 - a. (amount in words) _____
 4. ALTERNATE #3 (ADD or DEDUCT): \$ _____
 - a. (amount in words) _____
6. ACCEPTANCE
 - A. This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.
 - B. If this bid is accepted by Owner within the time period stated above, we will:
 1. Execute the Agreement within seven days of receipt of Notice of Award.
 2. Furnish the required bonds within seven days of receipt of Notice of Award.
 3. Commence work within seven days after written Notice to Proceed of this bid.
 - C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Bid Form

- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

7. **CONTRACT TIME**

- A. If this Bid is accepted, we will:
B. Complete the Work in 105 calendar days from Notice to Proceed.

8. **ADDENDA**

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
1. Addendum # _____ Dated _____.
 2. Addendum # _____ Dated _____.
 3. Addendum # _____ Dated _____.
 4. Addendum # _____ Dated _____.
 5. Addendum # _____ Dated _____.

9. **BID FORM SIGNATURE(S)**

- A. The Corporate Seal of
B. _____
C. (Bidder - print the full name of your firm)
D. was hereunto affixed in the presence of:
E. _____
F. (Authorized signing officer, Title)
G. (Seal)
H. _____
I. (Authorized signing officer, Title)

10. IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.

END OF SECTION 00.4100

Contracting Forms and Supplements

SECTION 00.5000 - CONTRACTING FORMS AND SUPPLEMENTS

PART 1 GENERAL

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A VALID LICENSE TO USE ALL COPYRIGHTED DOCUMENTS SPECIFIED BUT NOT INCLUDED IN THE PROJECT MANUAL.
2. AGREEMENT AND CONDITIONS OF THE CONTRACT
 - A. See Section 00.7200 - General Conditions for the General Conditions.
 - B. See Section 00.7300 - Supplementary Conditions for the Supplementary Conditions.
 - C. The Agreement is based on AIA A101.
 - D. The General Conditions are based on AIA A201.
3. FORMS
 - A. Use the following forms for the specified purposes unless otherwise indicated elsewhere in Contract Documents.
 - B. Bond Forms:
 1. Performance and Payment Bond Form: AIA A312.
 - C. Post-Award Certificates and Other Forms:
 1. Certificate of Insurance Form: ACORD Certificate of Insurance 25.
 2. Schedule of Values Form: AIA G703.
 3. Application for Payment Forms: AIA G702 with AIA G703 (for Contractors).
 - D. Clarification and Modification Forms:
 1. Construction Change Directive Form: AIA G714.
 2. Change Order Form: AIA G701.
 - E. Closeout Forms:
 1. Certificate of Substantial Completion Form: AIA G704.
 2. Affidavit of Payment of Debts and Claims Form: _____.
 3. Affidavit of Release of Liens Form: _____.
 4. Consent of Surety to Final Payment Form: _____.
4. REFERENCE STANDARDS
 - A. AIA A101 - Standard Form of Agreement Between Owner and Contractor where the basis of Payment is a Stipulated Sum; 2007.
 - B. AIA A201 - General Conditions of the Contract for Construction; 2007.
 - C. AIA A312 - Performance Bond and Payment Bond; 2010.
 - D. AIA G701 - Change Order; 2001.
 - E. AIA G702 - Application and Certificate for Payment; 1992.
 - F. AIA G703 - Continuation Sheet; 1992.
 - G. AIA G704 - Certificate of Substantial Completion; 2000.
 - H. AIA G714 - Construction Change Directive; 2007.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 00.5000

BONDS AND CERTIFICATES

SECTION 00.6000 - BONDS AND CERTIFICATES

PART 1 - GENERAL

1. PERFORMANCE AND PAYMENT BONDS
 - A. Performance and Payment Bonds shall be AIA Document A312 (two parts) Performance Bond and Labor and Material Payment Bond, December 1984, Third Printing March 1987 edition.
2. CERTIFICATES OF INSURANCE
 - A. See Section 00.7300 Supplemental Conditions for requirements.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF BONDS AND CERTIFICATES

General Conditions

SECTION 00.7200 - GENERAL CONDITIONS

PART 1 - GENERAL

1. FORM OF GENERAL CONDITIONS
 - A. Conditions of the Contract for Construction,"AIA Document A201, 2017 Edition, is a part of this Contract exactly as though fully-written and incorporated herein.
 - B. THE GENERAL CONDITIONS APPLICABLE TO THIS CONTRACT IS NOT ATTACHED FOLLOWING THIS PAGE.
 - C. All Contractors bidding this project are presumed to be familiar with this Document. Contractors may examine a copy of this Document in the Architect's office upon receipt of written request.
2. RELATED REQUIREMENTS
 - A. SECTION 00.7300 - Supplementary Conditions.
 - B. SECTION 01.4216 - Definitions.
3. SUPPLEMENTARY CONDITIONS
 - A. REFER TO DOCUMENT 00.7300 - Supplementary Conditions FOR AMENDMENTS TO THESE GENERAL CONDITIONS.

END OF SECTION 00.7200

SUPPLEMENTARY CONDITIONS

SECTION 00.8000 - SUPPLEMENTARY CONDITIONS

PART 1 GENERAL

1. DESCRIPTION

- A. The following Supplementary Conditions modify the "General Conditions of the Contract for Construction," AIA Document A201, 2017. Where a portion of the General Conditions is modified or deleted by the Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect. In the event of a conflict between the General Conditions of the Contract for Construction and Section 00800, Section 00800 shall control even if the conflicting provision in the General Conditions of the Contract for Construction is not expressly revised or deleted by reference in Section 00800.
- B. The General Conditions may also be supplemented or amplified elsewhere in the Contract Documents by provisions located in, but not necessarily limited to, Division 1 of the Specifications.

SUPPLEMENTS

ARTICLE 1 - GENERAL PROVISIONS

1. 1.1 BASIC DEFINITIONS

A. 1.1.1 THE CONTRACT DOCUMENTS:

- 1. Delete the last sentence in **Article 1.1.1** and insert the following:
 - a. The Contract Documents shall include the Instructions to Bidders, the plans, the specifications, including Divisions 0 through 16, all Addenda and modifications to the plans and/or specifications, the Agreement between Owner and Contractor, the performance and payment bonds, the notice to proceed and any executed change orders. Information and documentation pertaining to soil investigation data, laboratory investigations, soil borings and related information included herein are not part of the Contract Documents. In the event of a conflict between the provisions of Division 0 and any other section of the Contract Documents, such other sections(s) shall govern.

B. 1.1.2 THE CONTRACT

- 1. Add the following to the end of **Article 1.1.2**:
 - a. Large scale drawings shall govern over small scale drawings where there are differences or conflicts between such drawings. Where the word "similar" appears on the plans, it shall not be interpreted to mean "identical" and shall require the Contractor to coordinate the actual conditions and dimensions of the location where the a-similar conditions are shown to occur.

C. MISCELLANEOUS DEFINITIONS

- 1. Add the following **Article 1.1.9**:
 - a. The term "products" as used in these Supplementary Conditions includes materials, systems, and equipment.

2. CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

A. Add the following **Article 1.2.4**:

- 1. It is the intent of the Contract Documents that the Contractor shall properly execute and complete the Work described by the Contract Documents, and unless otherwise provided in the Contract, the Contractor shall provide all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services, whether temporary or permanent and whether or not incorporated in the Work, in full accordance with the Contract Documents and reasonably inferable from them as necessary to produce the intended results.

B. Add the following **Article 1.2.5**:

- 1. The Contract Documents shall be interpreted collectively, each part complementing the others and consistent with the intent of the Contract Documents. Unless an item shown or described in the Contract Documents is specifically identified to be furnished or installed by the Owner or others or is identified as **Not In Contract (N.I.C.)**, the Contractor's obligation relative to that item shall be interpreted to include furnishing, assembling,

installing, finishing, and/or connecting the item at the Contractor's expense to produce a product or system that is complete, appropriately tested, and in operable condition ready for use or subsequent construction or operation by the Owner or separate contractors. The omission of words or phrases for brevity of the Contract Documents, the inadvertent omission of words or phrases, or obvious typographical or written errors shall not defeat such interpretation as long as it is reasonably inferable from the Contract Documents as a whole.

2. Words or phrases used in the Contract Documents which have well-known technical or construction industry meanings are to be interpreted consistent with such recognized meanings unless otherwise indicated.
 3. Except as noted otherwise, references to standard specifications or publications of associations, bureaus, or organizations shall mean the latest edition of the referenced standard specification or publication as of the date of the Advertisement of Bids.
 4. In the case of inconsistency between Drawings and Specifications or within either document not clarified by addendum, the better quality or greater quantity of Work shall be provided in accordance with the Architect's interpretation.
 5. Generally, portions of the Contract Documents written in longhand take precedence over typed portions, and typed portions take precedence over printed portions.
 6. Any doubt as to the meaning of the Contract Documents or any obscurity as to the wording of them, shall be promptly submitted in writing to the Architect for written interpretation, explanation, or clarification.
3. DIGITAL DATA USE AND TRANSMISSION – DELETE THIS ARTICLE 1.7 ENTIRELY.
 4. BUILDING INFORMATION MODELS USE AND RELIANCE – DELETE THIS ARTICLE 1.8 ENTIRELY.

ARTICLE 2 - OWNER

1. EVIDENCE OF THE OWNER'S FINANCIAL ARRANGEMENTS
Add the following to the beginning of **Article 2.2.1**:
 1. "If the Project is a private project, not funded by public funds, then . . .".
2. DELETE **ARTICLE 2.2.2** ENTIRELY.
3. INFORMATION AND SERVICES REQUIRED OF THE OWNER
 - A. Delete **Article 2.3.1** in its entirety.
 - B. Add the following at the end of **Article 2.3.2**:
 1. The term "Architect", "Engineer" or "Design Professional" as used in the Contract Documents refers to WBA Architecture.
 - C. Delete **Article 2.3.4** in its entirety.
 - D. Delete **Article 2.3.6** in its entirety and insert the following:
 1. 2.2.5 The Contractor will be furnished free of charge digital copies of the plans and specifications, including all Addenda. Additional printed sets will be furnished at the cost of reproduction, postage and handling.
4. OWNER'S RIGHT TO STOP THE WORK
 - A. Delete **Article 2.4** in its entirety and insert the following:
 1. If the Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents as required by Article 12.2 or fails to carry out Work in accordance with the Contract Documents or fails to perform any of its obligations under the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated. However, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Article 6.1.3.
 2. The rights and remedies under this Article 2.4 are in addition to and do not in any respect limit any other rights of the Owner, including its termination rights under Article 14.

ARTICLE 3 - CONTRACTOR

1. GENERAL
 - A. Add the following at the end of **Article 3.1.1**:

1. The relationship of Contractor to Owner shall be that of independent contractor, and nothing in the Contract Documents is intended to nor should it be construed as creating any other relationship, expressed or implied, between Owner and Contractor.
2. REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR
 - A. Add the following **Article 3.2.5**:
 1. The Owner is entitled to deduct from the Contractor's pay applications for amounts paid to the Architect for evaluating and responding to the Contractor's requests for information that are not prepared in accordance with the Contract Documents or where the requested information is available to the Contractor from a careful study and comparison of the Contract Documents, field conditions, other Owner-provided information, Contractor-prepared coordination drawings, or prior Project correspondence or documentation.
3. LABOR AND MATERIALS
 - A. Add the following to the end of **Article 3.4.2**:
 1. Some Sections of the Specifications may not allow substitution of materials, products or equipment. Where substitution is allowed the request for substitution will only be considered if made in strict accordance with the requirements of Article 3.4.4 below and Section 01630.
 - B. Add the following **Article 3.4.4**:
 1. After the Contract has been executed, the Owner and the Architect may consider a request for the substitution of products in place of those specified only under the conditions set forth in Section 01630 of the specifications.
 2. By making requests for substitutions, the Contractor:
 - a. Represents that the Contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respect to that specified;
 - b. Represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified;
 - c. Certifies that the cost data presented is complete and includes all related costs under this Contract except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently becomes apparent; and
 - d. Shall coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects at its costs.
 3. All substitutions shall be submitted within 30 days of the Notice to Proceed, as per Section 01630.
 - C. Add the following **Article 3.4.5**:
 1. Contractor represents that it has independently investigated, considered and understands the labor conditions in the area surrounding the Project and acknowledges that such conditions may impact the Contractor's cost and/or time of performance of the Contract. Therefore, Contractor further represents that the Contract Price is based upon Contractor's independent investigations into such labor conditions and that the Contract time is reasonable and the date of Substantial Completion is obtainable. As a result, Contractor assumes the risk of increased costs, if any, incurred by it arising out of or related to such labor conditions and acknowledges that Contractor and its surety will reimburse Owner for any additional costs Owner incurs arising out of or related to such labor conditions.
4. PERMITS, FEES, NOTICES AND COMPLIANCE WITH LAWS
 - A. Delete **Article 3.7.1** in its entirety and insert the following:
 1. The Contractor shall secure and pay for the building permit and all other permits, fees, licenses, inspections and all other approvals and charges necessary for proper execution and completion of the Work.
 - B. Delete the words "knowing it to be" from **Article 3.7.3**.
 - C. Add the following to the end of **Article 3.8.2.3**:
 1. . . . except when installation is specified to be included as part of the allowance in the General Requirements (Division 1 of the Specifications).
5. SUPERINTENDENT
 - A. Add the following to the end of **Article 3.9.1**:

1. The Contractor shall also employ a competent project manager who shall be primarily responsible for the Contractor's home office activities in connection with the Contract.
 2. The Owner shall have the right, which shall be exercised in a reasonable fashion, to approve the project manager and/or superintendent employed by the Contractor, either before or during the progress of construction.
 3. The superintendent and project manager for the project shall be designated by the Contractor at the pre-construction conference. After Owner's approval of such project manager and superintendent, they shall not be replaced by the Contractor without the Owner's prior written consent, which consent is required unless the Contractor submits proof satisfactory to the Owner that the superintendent and/or the project manager should be terminated by the Contractor for cause.
6. CONTRACTOR'S CONSTRUCTION AND SUBMITTAL SCHEDULES
- A. Add "but, in any event, no less than submission of a revised schedule with each monthly application for payment pursuant to Section 9.3" between "intervals" and "as" in the fourth sentence.
 - B. Delete **Article 3.10.3** in its entirety and insert the following:
 1. Time being of the essence, the Contractor shall perform the Work in accordance with the most recent schedule submitted to and approved by the Owner and Architect.
7. SHOP DRAWINGS, PRODUCT DATA AND SAMPLES
- A. Add the following to the end of **Article 3.12.6**:
 1. In reviewing Shop Drawings, Product Data, Samples and similar submittals the Architect shall be entitled to rely upon the Contractor's representation that such information is correct and accurate.
 - B. Add the following to the end of **Article 3.12.8**:
 1. Unless such written notice has been given, the Architect's approval of a Shop Drawing, Product Data, Sample or similar submittal shall not constitute approval of any changes not requested on the prior submittal.
 - C. Add the following to the end of **Article 3.12.9**:
 1. The Architect's review of the Contractor's submittals will be limited to examination of an initial submittal and one (1) resubmittal. The Architect's review of additional submittals will be made only with the consent of the Owner after notification by the Architect. The Owner shall be entitled to deduct from the Contract Sum amounts paid to the Architect for evaluation of such additional resubmittals.
 - D. Delete the second sentence entirely of **Article 3.12.10.1** and replace with:
 1. "The performance and design criteria specified by the Architect in the Contract Documents shall be prepared in accordance with the applicable standard of care."
8. 3.18 INDEMNIFICATION
- A. Add the word **defend** before the word **indemnify** in the first line, add the words **or nonperformance** after the word **performance** in the third line and delete the phrase which begins **provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself)** to the end of the sentence.

ARTICLE 4 - ADMINISTRATION OF THE CONTRACT

1. DELETE THE LAST SENTENCE ENTIRELY FROM **ARTICLE 4.2.4**.
2. DELETE **ARTICLE 4.2.10** IN ITS ENTIRETY.

ARTICLE 5 - SUBCONTRACTORS

1. 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK
 - A. Delete the phrase **Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract** from the first sentence of **Article 5.2.1** and insert the following in lieu thereof:
 1. The Contractor, with its first Application for Payment and as a condition to the Owner's obligation to make payments to Contractor under Article 9 of the General Conditions as supplemented herein,
 - B. Add the following **Article 5.2.5**:

1. The Contractor's unauthorized substitution of any subcontractor, supplier, person or entity previously identified by Contractor in accordance with **Article 5.2.1** shall entitle the Owner to reject the work, materials or product furnished and require removal and replacement at no additional cost to the Owner.

ARTICLE 6 - CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

1. 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS
 - A. Delete **Articles 6.1.1, 6.1.2, 6.1.3, 6.1.4** in their entirety and insert the following:
 1. The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces and to award separate contracts either in connection with other portions of the Project or other construction or operation on the site. In such event, the Contractor shall coordinate its activities with those of the Owner and of Separate Contractors so as to facilitate the general progress of all work being performed by all parties. Cooperation will be required in the arrangement for the storage of materials, and in the detailed execution of the Work.
 2. The Contractor, including his subcontractors, shall keep informed of the progress and the detailed work of the Owner or Separate Contractors and shall immediately notify the Architect of lack of progress or delays by Separate Contractors which are affecting Contractor's Work. Failure of Contractor to keep informed of the progress of the work of the Owner or Separate Contractors and/or failure of Contractor to give notice of lack of progress or delays by the Owner or Separate Contractors shall be deemed to be acceptance by Contractor of the status of progress by Separate Contractors for the proper coordination and completion of Contractor's Work. If, through acts or neglect on the part of the Contractor, the Owner or any Separate Contractors shall suffer loss or damage or assert any claims of whatever nature against the Owner, the Contractor shall defend, indemnify and hold harmless the Owner from any such claims or alleged damages, and the Contractor shall resolve such alleged damages or claims directly with the Separate Contractors.
2. 6.2 MUTUAL RESPONSIBILITY
 - A. Delete **Article 6.2.3** in its entirety.

ARTICLE 7 - CHANGES IN THE WORK

1. 7.1 GENERAL
 - A. Add the following to the end of **Article 7.1.3**:
 1. Except as permitted in **Article 7.3**, a change in the Contract Sum or the Contract Time shall only be accomplished by written change order. Therefore, the Contractor acknowledges that it is not entitled to a change in the Contract Sum or the Contract Time in the absence of a written change order on the basis of the course of conduct or dealings between the parties and/or the Owner's express or implied acceptance of alterations or additions to the Work and/or the Owner has been unjustly enriched by the Contractor's Work or any other basis otherwise allowed by law or the facts and Contractor agrees that any such extra or changed work was performed by it as a volunteer.
2. 7.2 CHANGE ORDERS
 - A. Add the following **Article 7.2.2**:
 1. Contractor's execution of a change order constitutes a final settlement to the Contract Sum and construction schedule and the Contract Time for all matters relating to or arising out of the change in the Work that is the subject of the change order including, but not limited to, all direct and indirect costs associated with such change, all extended direct job site and home office overhead expenses and any and all delay and impact cost for the change, whether alone or in combination with other changes, including any impact, ripple or cumulative effect resulting therefrom, if any.
 - B. Add the following **Article 7.2.3**:
 1. Adjustments to the Contract Sum by change order shall be based upon one of the methods set forth in **Article 7.3.3.1, 7.3.3.2, 7.3.3.3 or 7.3.3.4**, as appropriate. A reasonable allowance for the combined overhead and profit included in the change order shall be based upon the schedule set forth in Article 7.3.11, as supplemented.

- C. Add the following **Article 7.2.4**:
 - 1. In order to facilitate consideration of change order requests, all such requests, except those involving an amount less than \$500 must be accompanied by a complete itemization of costs, including labor, materials and subcontractor costs which shall likewise be itemized. Changes for more than \$500 will not be approved without such itemization.
- 3. 7.3 CONSTRUCTION CHANGE DIRECTIVES
 - A. Add "Owner or" between "the" and "Contractor" in both places they appear in this Article.
 - B. Delete the first sentence and insert the following:
 - 1. The amount of credit to be given by the Contractor to the Owner for a deletion or change which results in a net decrease in the Contract Sum shall be the actual net cost plus reasonable allowance for overhead on net cost and profit thereon as approved by the Architect and Owner.
 - C. Add the following **Article 7.3.11**:
 - 1. The allowance for overhead and profit combined, including extended direct job and home office overhead and any and all delay, impact, inefficiency, disruption and ripple effect to be included in the total cost to the Owner, shall be based on the following schedule:
 - a. For the Contractor, for work performed by the Contractor's own forces, 15 percent of the cost.
 - b. For the Contractor, for work performed by the Contractor's subcontractor, 10 percent of the amount due the subcontractor.
 - c. For each subcontractor or sub-subcontractor involved, for work performed by that subcontractor or sub-subcontractor's own forces, 15 percent of the cost.
 - d. For each subcontractor, for work performed by the subcontractor's sub-subcontractor's, 10 percent of the amount due the sub-subcontractor.
 - e. Costs to which overhead and profit is to be applied shall be determined in accordance with **Article. 7.3.4**.

ARTICLE 8 - TIME

- 1. 8.2 PROGRESS AND COMPLETION
 - A. Add the following to the end of the second sentence:
 - 1. and that the Contractor is fully capable of properly completing the Work within the Contract Time.
- 2. 8.3 DELAYS AND EXTENSIONS OF TIME
 - A. Add the following to the end of Article 8.3.3:
 - 1. No delay, interference, hindrance or disruption, from whatever source or cause, in the progress of the Contractor's Work shall be a basis for an extension of time and/or additional compensation, unless the delay, interference, hindrance or disruption (1) is without the fault and not the responsibility of the Contractor, its subcontractors and/or suppliers and (2) directly affects the overall completion of the Work as reflected on the critical path of the Contractor's updated and accepted construction schedules. The Contractor expressly agrees that the Owner shall have the benefit of any float in the construction schedule and that delays to construction activities, which do not affect the overall completion of the Work, do not entitle the Contractor to any extension in the Contract Time and/or increase in Contract Sum.
- 3. ADD THE FOLLOWING ARTICLE 8.3.4:
 - A. All claims by the Contractor for an increase in the Contract Time must follow the procedures set forth in Articles 15.1.2, 15.1.3, 15.1.5 and 15.1.6, including the requirement that the Contractor give written notice of any claim within twenty-one (21) days after occurrence of the event giving rise to such claim or within twenty-one (21) days after the Contractor first recognizes the condition giving rise to the claim, whichever is earlier.
- 4. ADD THE FOLLOWING ARTICLE 8.3.5:
 - A. If the Contractor submits a schedule indicating or otherwise expressing an intent to complete the Work prior to the date of substantial completion, the Owner shall have no liability to the Contractor for any failure by the Contractor to complete the Work prior to the expiration of the Contract Time.

ARTICLE 9 - PAYMENTS AND COMPLETION

1. 9.3 APPLICATION FOR PAYMENTS
 - A. Add the following sentence to the end of Article 9.3.1:
 1. The form of Application for Payment will be the current edition of the AIA Document G702, Application and Certification for Payment, supported with AIA Document G703, Continuation Sheet.
 - B. Add the following Article 9.3.1.3:
 1. In any contract awarded by the state of Mississippi or any agency, unit or department of the State of Mississippi, or by any political subdivision thereof, the amount of retainage that may be withheld is governed by Mississippi law.
 - C. Add the following Article 9.3.2.1:
 1. Payment for materials stored at some location other than the Project site, may be approved by the Architect and the Owner after the Contractor has submitted the following items:
 - a. An acceptable Lease Agreement between the Contractor or one of its subcontractors or suppliers and the owner of the land, or building, where the materials are stored covering the specific area where the materials are located.
 - b. Consent of Surety or other acceptable bond to cover the materials stored off-site.
 - c. All Perils Insurance coverage for the full value of the materials stored off-site.
 - d. A Bill of Sale from the Manufacturer to the Contractor for the stored materials.
 - e. A complete list and inventory of materials manufactured, stored and delivered to the storage site and of materials removed from the storage site and delivered to the Project.
 - f. A review by the Architect of the materials stored off-site prior to release of payment.
 - g. Proof of payment of stored materials verified by the supplier must be submitted to the Architect within thirty (30) days of the Application for Payment on which payment for said materials was made. If proof of payment is not submitted within thirty (30) days, then payment for said materials will be deducted from the next application for payment and withheld until proof of payment is received.
2. 9.5 DECISIONS TO WITHHOLD CERTIFICATION
 - A. Edit 9.5.1.7
 1. Delete the word **repeated**.
 - B. Add the following **Article 9.5.1.8**:
 1. The letter from the Contractor which is required by Article 15.1.6.2 has not been received.
3. 9.6 PROGRESS PAYMENTS
 - A. Delete **Article 9.6.1** in its entirety and insert the following:
 1. Subject to the conditions of the Contract, the Owner shall make payment to the Contractor in the amount certified within thirty (30) days after receipt of the Certificate for Payment from the Architect. Payment shall not be considered late until thirty (30) days after Owner's receipt of the approved Certificate for Payment from the Architect.
 - B. 9.6.1.1 Contractor's Applications for Payment shall be submitted on or before the 25th day of each month. Any application not submitted on or before this date may not be processed or approved until the following month.
 - C. 9.6.7 Delete the word **Unless** from the first sentence and insert the phrase **Whether or not**.
 - D. Add the following to the end of **Article 9.6.7**:
 1. The amount retained by the Contractor from each payment to each Subcontractor and material supplier shall not exceed the percentage retained by the Owner from the Contractor for the Subcontractor's Work.
4. 9.7 FAILURE OF PAYMENT
 - A. In the first sentence, delete the words "or awarded by binding dispute resolution".
5. 9.8 SUBSTANTIAL COMPLETION
 - A. Delete **Article 9.8.1** in its entirety and insert the following:
 1. Substantial completion for purposes of this Contract occurs only upon Contractor's compliance with the following conditions precedent: (a) the Contractor furnishes to the Architect all close-out documents required

- by the Contract Documents in a form satisfactory to the Architect and the Owner, (b) the Contractor furnishes the manufacturers' certifications and/or warranties required by the Contract Documents; (c) the Contractor furnishes the Guarantee of Work set forth hereinbelow; and (d) the Architect certifies that the Work is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended purpose.
2. The Guarantee of Work shall be submitted as a separate document signed by Contractor and Contractor's Surety and shall state the following:
 - a. Contractor and Contractor's Surety hereby guarantee that all Work performed on the Project is free from defective and/or nonconforming materials and workmanship and that for a period of one year from the date of substantial completion or such longer period of time as may be called for in the Contract Documents for such portions of the Work, Contractor or its Surety will repair and/or replace any defective and/or nonconforming materials and workmanship in accordance with the requirements of the Contract Documents.
- B. Add the following **Article 9.8.2.1**:
1. The Contractor shall be responsible for the costs of inspections made by the Architect including any and all other related expenses incurred by the Architect for providing services for the Project required by failure of the Contractor to achieve final acceptance / completion of the Project within 30 days after the first occurrence of the below described events:
 - a. Specified date of Substantial Completion; or
 - b. Actual date of Substantial Completion.
 2. The costs of the Architect's additional services shall be deducted by the Owner from the Contractor's final application for payment to pay the Architect for additional services required by the Contractor's failure to achieve final completion of the project within the 30 day period described above.
- C. Delete the last sentence of **Article 9.8.4** and insert the following:
1. Warranties required by the Contract Documents shall commence and continue for one (1) year from the date of Substantial Completion except that the roof system shall be warranted for a period of three (3) years from the date of Substantial Completion.
- D. Add the following to the end of **Article 9.8.5**:
1. Contractor's execution of the Certificate of Substantial Completion constitutes Contractor's representation that the items on the list accompanying the Certificate can and will be completed by Contractor and his subcontractors within thirty (30) days of Contractor's execution of the Certificate. Based upon this representation by Contractor and upon the acknowledgment of the Architect that the listed items remaining can be completed within thirty (30) days, the Owner agrees to execute the Certificate of Substantial Completion. If Contractor fails to complete the items on the list within thirty (30) days of Contractor's execution of the Certificate, then the Owner, at its option and without prejudice to any other rights or remedies it may have under this Contract or otherwise and without notice to Contractor or Surety, may proceed to have same completed and to deduct the reasonable costs thereof from the amounts then due or thereafter to become due to Contractor.
- E. Add the following **Article 9.8.6**:
1. The costs of inspections made by Architect which are not required by Articles 4, 9.8 or 9.10 of the General Conditions and any other inspection required by Article 12 other than the year-end inspection itself, will be the responsibility of the Contractor and will be deducted by the Owner from the Application for Payment submitted after the Owner's receipt of the Architect's statement for its costs of additional inspections. These costs are not the result of Contractor's failure to timely complete the Contract within the specified time and, therefore, such costs are in addition to and not a part of any liquidated damages calculation, if any.
- F. Add the following **Article 9.8.7**:
1. Upon the Owner's acceptance of the Work as substantially complete and upon Contractor's compliance with all conditions precedent to substantial completion as stated in Section 00800, Article 9.8.1 and upon application by the Contractor, the Owner will pay to the Contractor all retainage held by the Owner less an

amount equal to the greater of (a) two percent (2%) of the Contract Sum, or (b) two hundred percent (200%) of the estimated cost of the Work remaining to be performed by the Contractor in accordance with the Architect's determination. Final payment, including all retainage, shall be made at the time and in the manner provided for final payment in accordance with the provisions of Article 9.10 and the additional conditions precedent to final acceptance / payment set forth in Section 00800, Article 9.8.5.

6. 9.9 PARTIAL OCCUPANCY OR USE

A. Add the following Article 9.9.1.2:

1. The Owner's occupancy or use of any completed or partially completed portions of the Work shall not affect Contractor's obligation to complete incomplete items on the list attached to the Certificate of Substantial Completion within the time fixed in the Certificate and does not waive Owner's right to obtain completion of incomplete items at Contractor's expense upon Contractor's failure to timely complete same.

7. 9.11 LIQUIDATED DAMAGES

A. Liquidated Damages. Time being of the essence of this Contract and a matter of material consideration thereof, a reasonable estimate in advance is established to cover losses incurred by the Owner if the Project is not substantially complete on the date set forth in the Contract Documents. The Contractor and his Surety will be liable for and will pay the Owner the sums hereinafter stipulated as fixed and agreed as liquidated damages for each calendar day for delay until the Work is substantially complete. The Contractor and his Surety acknowledge that the Owner's losses caused by the Contractor's delay are not readily ascertainable and that the amount estimated per day for liquidated damages is reasonable and is not a penalty.

B. The amount established per day for liquidated damages is \$500.00.

ARTICLE 10 - PROTECTION OF PERSONS AND PROPERTY

1. 10.1 SAFETY PRECAUTIONS AND PROGRAMS

A. Add the following to the end of **Article 10.1**:

1. The Architect shall not administer the Contractor's performance of its duties and responsibilities under **Article 10** (including **Articles 10.1 through 10.6**) because the initiation, maintenance and supervision of safety precautions and programs is the sole responsibility of the Contractor as means, methods, techniques, sequences and procedures of construction and, therefore, is not part of the Contractor's scope of Work which is to be administered by the Architect.

ARTICLE 11 - INSURANCE AND BONDS

1. 11.4 LOSS OF USE, BUSINESS INTERRUPTION, AND DELAY IN COMPLETION INSURANCE

A. Delete **Article 11.4** in its entirety.

ARTICLE 12 - UNCOVERING AND CORRECTION OF WORK

1. 12.1 UNCOVERING OF WORK

A. Delete the second sentence of **Article 12.1.2** entirely and replace with:

1. "If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense."

2. 12.2 CORRECTION OF WORK

A. 12.2.2 AFTER SUBSTANTIAL COMPLETION

B. Add the following to the end of **Article 12.2.1**:

1. Prior to the end of the one-year period, (three years for roof systems), the Architect may schedule a warranty inspection which shall be attended by the Architect, the Owner, the Contractor and all major subcontractors. During this inspection, the parties shall identify all defective and/or nonconforming items and fix a time within which all defective and/or nonconforming items shall be repaired and/or replaced.

C. Add the following **Article 12.2.1.1**:

1. Within the one-year period (three years for roof systems) provided for in the Guarantee of Work required by **Article 9.8.1**, if repairs or replacement are requested by Owner in connection with the Work which, in the opinion of the Owner, are rendered necessary as a result of the use of materials, equipment or workmanship

which are inferior, defective or not in accordance with the Contract Documents, the Contractor and/or its Surety shall promptly, upon receipt of notice from and without expense to the Owner, place in satisfactory condition in every particular, all such Work, correct all defects therein and make good all damages to the building, site, equipment or contents thereof; and make good any work or materials or the equipment and contents of said buildings or site disturbed in fulfilling any such guarantee. If, after notice or within the time agreed upon by the parties at the warranty inspection, the Contractor and/or its Surety fail to proceed promptly to comply with the terms of the guarantee, the Owner may have the defects corrected in accordance with **Article 2.5** and the Contractor and his Surety shall be liable for all expenses incurred. All special guarantees applicable to definite parts of the Work stipulated in the Contract Documents shall be subject to the terms of this paragraph during the first year of the life of such special guarantee.

ARTICLE 13 - MISCELLANEOUS PROVISIONS

1. 13.5 INTEREST
 - A. Delete **Article 13.5** in its entirety and insert the following:
 1. Payments due and unpaid under the Contract Documents shall bear interest as provided by applicable Mississippi law.
2. 13.6 ATTORNEYS' FEES AND EXPENSES
 - A. Add the following **Article 13.6** to private projects not funded in whole or in part by public monies.
 1. The prevailing party in any dispute between the parties arising out of or related to this Agreement or the breach thereof, shall be entitled to reasonable attorneys' and expert witness(es) fees and expenses incurred in pursuing or defending any claim.

ARTICLE 14 - TERMINATION OR SUSPENSION OF THE CONTRACT

1. 14.1 TERMINATION BY THE CONTRACTOR
 - A. Delete **Article 14.1.1.4** in its entirety.
 - B. Delete " , as well as reasonable overhead and profit on Work not executed," between "executed" and "and" in the third line.
2. 14.2 TERMINATION BY THE OWNER FOR CAUSE
 - A. Delete the word **repeatedly** from **Article 14.2.1.1**.
 - B. Delete the word **repeatedly** from **Article 14.2.1.3**.
3. ADD THE FOLLOWING ARTICLES 14.2.1.5 AND 14.2.1.6:
 - A. .5 fails to achieve Substantial Completion of the Project as described in Section 00800, Article 9.8.5, within the time stated therein;
 - B. .6 fails to meet any deadline required by the Contract. Contractor acknowledges that time is of the essence of this Contract and that all deadlines required by the Contract are critical to timely completion of the Contract. Therefore, Contractor agrees that its failure to meet any deadline constitutes a substantial and material breach of this Contract, entitling the Owner to terminate the Contract.
4. DELETE THE WORD **CERTIFICATION** IN THE FIRST SENTENCE AND INSERT THE WORD **ADVICE** FROM **ARTICLE 14.2.2**.
 - A. Delete the phrase **Initial Decision Maker** and insert the word **Architect** from **Article 14.2.4**.
 - B. Add the following Article 14.2.5:
 1. If the Owner terminates the Contract for cause, and it is determined for any reason that the Contractor was not actually in default under the Contract at the time of termination, the Contractor shall be entitled to recover from the Owner the same amount as the Contractor would be entitled to receive under a termination for convenience as provided by Article 14.4. The foregoing shall constitute the Contractor's sole and exclusive remedy for termination of the Contract. In no event shall the Contractor be entitled to special, consequential, or exemplary damages, nor shall the Contractor be entitled to anticipated profits resulting from termination of this Contract.

5. 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

- A. Add after the end of that sentence: **The Contractor shall not be entitled to receive any payment for either overhead or profit on work not performed.**

ARTICLE 15 - CLAIMS AND DISPUTES

1. DELETE THE FOLLOWING PHRASE FROM **ARTICLE 15.1.2**:

- A. "in accordance with the requirements of the final dispute resolution method selected within the Agreement".

2. 15.1.6 CLAIMS FOR ADDITIONAL TIME

- A. Add the following to the end of **Article 15.1.6.2**:

1. The Contractor must submit each month with his Application for Payment a separate letter stating that he is requesting an extension of time for abnormal adverse weather or that he has no claim for an extension for that period of time. Payment is not due on the Application for Payment until the letter is received. Complete justification, including weather reports, daily reports, correspondence and any other supporting data must be provided for each day for which a request for time extension is made. A letter or statement that the Contractor was delayed is not as adequate justification. The receipt of this request and data by the Architect will not be considered as Owner or Architect approval of a time extension in any way.

- B. Add the following **Article 15.1.6.3**:

1. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the Project location and will constitute the baseline for monthly weather time evaluations. The Contractor's activity durations in the progress schedule must reflect these anticipated adverse weather delays in all weather-dependent activities.

2. MONTHLY ANTICIPATED ADVERSE WEATHER DAYS BASED ON FIVE (5) DAY WORK WEEK.

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
6	6	5	5	5	5	5	7	4	4	4	7

3. Upon acknowledgment of the Notice of Proceed (NTP) and continuing throughout the Contract, the Contractor shall record on the daily report, the occurrence of adverse weather and resultant impact to normally scheduled Work. Actual adverse weather delay days must prevent work on the Project's critical activities for 50 percent or more of the Contractor's scheduled work day. The number of actual adverse weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in the table, above, the Owner and the Architect will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the contract.

4. Time Extension for Weather not Allowed: Add the following in lieu of **Article 15.1.6.3**:

- a. The Contractor assumes the risk of both normal and abnormally adverse weather and will not be entitled to any time extension or Contract price adjustment for either normal or abnormally adverse weather encountered during construction, notwithstanding any other provision of the Contract to the contrary.

3. ADD THE FOLLOWING **ARTICLE 15.1.6.4**:

- A. Claims for increase in the Contract Time shall set forth in detail the facts and circumstances which support such Claim, including but not limited to, the cause of such delay, the date such delay began to affect the critical path, the date such delay ceased to affect the critical path and the number of days of additional time requested. The Contractor shall not be entitled to an increase in the Contract Time for delays which did not affect the critical path or to the extent there were concurrent non-excusable delays. The Contractor may be requested to provide additional documentation to substantiate its Claim, including but not limited to, schedules that indicate all activities affected by such delay.

4. ADD THE FOLLOWING **ARTICLE 15.1.8**:

- A. The Contractor expressly agrees that the Article 15 Claims and Disputes process is the only dispute resolution mechanism that will be recognized by the parties for any claims put forward by the Contractor, notwithstanding any other claimed theory of entitlement on the part of the Contractor or its subcontractors or suppliers against the Owner

and/or the Architect or any of their design consultants, including, but not limited to, all claims of breach of contract, breach of warranty, misrepresentation, negligence, professional negligence, and/or any other tort.

5. 15.2 INITIAL DECISION
 - A. Add **within thirty (30) days** to the end of **Article 15.2.4**.
6. 15.3 MEDIATION
 - A. Delete the phrase **shall be subject to mediation as a condition precedent to binding dispute resolution** and insert the phrase **may be subject to mediation upon mutual agreement of the Owner and Contractor**.
 - B. Delete the word **shall** in the first sentence wherever it appears and insert the word **may**.
 - C. Delete **Article 15.3.3** in its entirety.
7. 15.4 ARBITRATION
 - A. Delete the words **parties have** in the first sentence and insert the words **Owner has** and delete the phrase **unless the parties mutually agree** in the first sentence and insert the phrase **unless the Owner chooses**.
8. 15.4.4 CONSOLIDATION OR JOINDER
 - A. Delete **Article 15.4.4**, including subparts .1 - .3, in its entirety and insert the following:
 1. .4.1 The Owner, at its sole discretion, may consolidate any arbitration, if any, conducted under this Agreement with any other arbitration to which it is a party where the Owner determines that the arbitrations to be consolidated substantially involve common questions of law or fact and the Owner, at its sole discretion, may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration.

END OF SECTION

BIDDING ADDENDUM

SECTION 00.9100 - BIDDING ADDENDUM

PART 1 - GENERAL

1. ADDENDA

- A. Any Addendum issued prior to bid date on this Project will be included in Section 00.9100 and become a part of the Standard Form of Agreement Between the Owner and the Contractor.
- B. Acknowledge receipt of All Addenda in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

PART 2 PRODUCTS - NOT USED

PART 3 - EXECUTION (NOT USED)

END OF DOCUMENT

SECTION 01.1000 - SUMMARY

PART 1 GENERAL

1. PROJECT
 - A. Owner's Name: The City of Brandon, Mississippi.
 - B. Architect's Name: Wier Boerner Allin Architecture.
 - C. The Project consists of the alteration of the green room and backstage area, including adding two shower room. It also includes adding a canopy covering to the back and front of the building and other work as described in these Specifications and Drawings.
2. CONTRACT DESCRIPTION
 - A. Contract Type: A single prime contract based on a Stipulated Price as described in Document 00.5000 Contracting Forms and Supplements.
 - B. The scope of work of the prime contract is identified in this section, the Project Specifications and on the Drawings.
3. OWNER OCCUPANCY
 - A. Owner intends to occupy the Project upon Substantial Completion.
 - B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
 - C. Schedule the Work to accommodate Owner occupancy.
4. CONTRACTOR USE OF SITE AND PREMISES
 - A. Construction Operations: Limited to areas noted on Drawings. Do not disturb portions of the project site beyond areas in which the Work is indicated.
 - B. Arrange use of site and premises to allow:
 1. Minimize space and time requirements for storage of materials and equipment on-site.
 - C. Provide access to and from site as required by law and by Owner:
 1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
 2. Do not obstruct roadways, sidewalks, or other public ways without permit.
 3. Keep driveways, loading areas, and entrances clear and available to the Owner at all times. Schedule deliveries to minimize use of driveways and entrances.
 - D. Existing building spaces may not be used for storage.
 - E. Time Restrictions:
 1. Limit conduct of especially noisy exterior work to the hours of 8am to 5pm.
 2. Limit conduct of the hours of 7am to 5pm, Monday thru Friday.
 3. Weekend Early and After hours Work shall be subject to the approval of the Owner and regulation by authorities having jurisdiction..
 - F. Utility Outages and Shutdown:
 1. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner and authorities having jurisdiction.
 2. Limit shutdown of utility services to 4 hours at a time, arranged at least 48 hours in advance with Owner.
 3. Prevent accidental disruption of utility services to other facilities.
5. WORK SEQUENCE
 - A. Coordinate construction schedule and operations with Owner.
 - B. Coordinate construction schedule and operations with Architect.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.1000

Price and Payment Procedures

SECTION 01.2000 - PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Procedures for preparation and submittal of applications for progress payments.
 - B. Documentation of changes in Contract Sum and Contract Time.
 - C. Change procedures.
 - D. Procedures for preparation and submittal of application for final payment.
2. RELATED REQUIREMENTS
 - A. Section 00.5000 - Contracting Forms and Supplements: Forms to be used.
 - B. Section 01.2100 - Allowances: Payment procedures relating to allowances.
3. SCHEDULE OF VALUES
 - A. Use Schedule of Values Form: AIA G701 & G702.
 - B. Submit Schedule of Values within 15 days after date of Owner-Contractor Agreement and no later than 10 days before the date scheduled for the submission of the initial Application for Payment.
 - C. Format: Utilize the Table of Contents of this Project Manual. Identify each line item with number and title of the specification Section. Identify site mobilization, bonds and insurance, and indirect costs as separate line items..
 1. Include separate line items for field supervision, layout, temporary facilities and controls and closeout documents.
 2. Include separate line items to the amount of Allowances specified in this section. For unit cost Allowances, identify quantities taken from Contract Documents multiplied by the unit cost to achieve the total for the item.
 3. For each specification section, include separate line items for labor, material and material stored off-site.
 4. Include separately from each line item, a direct proportional amount of Contractor's overhead and profit.
 5. Where work is separated into phases, include a line item per phase for each specification section.
 6. Revise schedule to list approved Change Orders, with each Application For Payment.
 - D. Review and Re-submittal: Schedule of Values are subject to review and approval of the Architect. If revisions are requested, the Contractor shall resubmit the adjusted Schedule of Values prior to the submission of the initial Application for Payment.
4. APPLICATIONS FOR PROGRESS PAYMENTS
 - A. Payment Period: Submit at intervals stipulated in the Agreement.
 - B. Use Form AIA G701 & G702.
 - C. Execute certification by signature of authorized officer and notarization.
 - D. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored products.
 - E. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of Work. Change Order line items do not need to be broken out to show separate material and labor costs.
 - F. Submit three hard copies of each Application for Payment. Submit additional copies as required by the Owner and/or the Owner's Lending agent.
 - G. Include the following with the application:
 1. Transmittal letter as specified for submittals in Section 01.3000.
 2. Construction progress schedule, revised and current as specified in Section 01.3000.
 3. Partial release of liens from major Subcontractors and vendors. The Owner reserves the right to designate which entities involved in the Work must submit waivers.
 4. Affidavits attesting to off-site stored products.

5. MODIFICATION PROCEDURES

- A. For minor changes not involving an adjustment to the Contract Sum or Contract Time, Architect will issue instructions directly to Contractor.
- B. For other required changes, Architect will issue a document signed by Owner instructing Contractor to proceed with the change, for subsequent inclusion in a Change Order.
 - 1. The document will describe the required changes and will designate method of determining any change in Contract Sum or Contract Time.
 - 2. Promptly execute the change.
- C. For changes for which advance pricing is desired, Architect will issue a document that includes a detailed description of a proposed change with supplementary or revised drawings and specifications, a change in Contract Time for executing the change with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor shall prepare and submit a fixed price quotation within ____ days.
- D. Contractor may propose a change by submitting a request for change to Architect, describing the proposed change and its full effect on the work, with a statement describing the reason for the change, and the effect on the Contract Sum and Contract Time with full documentation. Document any requested substitutions in accordance with Section 01.6000.
- E. Computation of Change in Contract Amount: As specified in the Agreement and Conditions of the Contract.
 - 1. For change requested by Architect for work falling under a fixed price contract, the amount will be based on Contractor's price quotation.
 - 2. For change requested by Contractor, the amount will be based on the Contractor's request for a Change Order as approved by Architect.
 - 3. For pre-determined unit prices and quantities, the amount will be based on the fixed unit prices.
- F. Substantiation of Costs: Provide full information required for evaluation.
 - 1. On request, provide the following data:
 - a. Quantities of products, labor, and equipment.
 - b. Taxes, insurance, and bonds.
 - c. Overhead and profit.
 - d. Justification for any change in Contract Time.
 - e. Credit for deletions from Contract, similarly documented.
 - 2. Support each claim for additional costs with additional information:
 - a. Origin and date of claim.
 - b. Dates and times work was performed, and by whom.
 - c. Time records and wage rates paid.
 - d. Invoices and receipts for products, equipment, and subcontracts, similarly documented.
 - 3. For Time and Material work, submit itemized account and supporting data after completion of change, within time limits indicated in the Conditions of the Contract.
- G. Execution of Change Orders: Architect will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.
- H. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.
- I. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
- J. Promptly enter changes in Project Record Documents.

6. APPLICATION FOR FINAL PAYMENT

- A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.
- B. Attach to Application for Final Payment the specified supporting documents as specified in Section 01.7800.
- C. Application for Final Payment will not be considered until the following have been accomplished:

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Price and Payment Procedures

1. All closeout procedures specified in Section 01.7000.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.2000

SECTION 01.2100 - ALLOWANCES

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Cash allowances.
 - B. Contingency allowance.
 - C. Payment and modification procedures relating to allowances.
2. RELATED REQUIREMENTS
 - A. Section 01.2000 - Price and Payment Procedures: Additional payment and modification procedures.
3. CASH ALLOWANCES
 - A. Costs Included in Cash Allowances: Cost of product to Contractor or subcontractor, including product delivery to site and handling at the site, including unloading, uncrating, and storage; protection of products from elements and from damage; and labor for installation and finishing, less applicable trade discounts , less Overhead, Profit, Bond and Insurance costs associated with cash allowances. Overhead, Profit, Bond and Insurance costs shall be included in Base Bid costs in addition to the related cash allowances..
 - B. Architect Responsibilities:
 1. Consult with Contractor for consideration and selection of products, suppliers , and installers.
 2. Select products in consultation with Owner and transmit decision to Contractor.
 3. Prepare Change Order at Project Closeout to adjust Contract Sum for un-used allowance amounts.
 - C. Contractor Responsibilities:
 1. Assist Architect in selection of products, suppliers , and installers.
 2. Advise the Architect of dates when final selection and purchase associated with allowances must be completed to avoid delay of work.
 3. Obtain proposals from suppliers and installers and offer recommendations.
 4. Submit proposals for Architects review and approval prior to purchase.
 5. On notification of which products have been selected, execute purchase agreement with designated supplier and installer.
 6. Arrange for and process shop drawings, product data, and samples. Arrange for delivery.
 7. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.
 8. At the direction of the Architect, return unused materials to manufacturer or supplier for credit, prepare unused materials for storage by Owner, or dispose of unused materials at the Contractor's expense.
 - D. Differences in costs will be adjusted by Change Order prior to closeout.
4. CONTINGENCY ALLOWANCE
 - A. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from this Contingency Allowance.
 - B. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.
5. ALLOWANCES SCHEDULE
 - A. Contingency Allowance: Include the stipulated sum/price of \$10,000.00 for use upon Architect's and/or Owner's instructions.
 - B. Door Hardware Allowance: Include the stipulated sum/price of \$2,000.00 for the purchase and installation of all door hardware.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.2100

Unit Prices

SECTION 01.2200 - UNIT PRICES

PART 1 GENERAL

1. SECTION INCLUDES
 - A. List of unit prices, for use in preparing Bids.
 - B. Measurement and payment criteria applicable to Work performed under a unit price payment method.
2. COSTS INCLUDED
 - A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.
3. UNIT QUANTITIES SPECIFIED
 - A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.
4. MEASUREMENT OF QUANTITIES
 - A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.
 - B. Take all measurements and compute quantities. Measurements and quantities will be verified by Architect.
 - C. Assist by providing necessary equipment, workers, and survey personnel as required.
 - D. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
 - E. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.
 - F. Measurement by Area: Measured by square dimension using mean length and width or radius.
 - G. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.
 - H. Stipulated Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as a completed item or unit of the Work.
5. PAYMENT
 - A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.
 - B. Payment will not be made for any of the following:
 1. Products wasted or disposed of in a manner that is not acceptable.
 2. Products determined as unacceptable before or after placement.
 3. Products not completely unloaded from the transporting vehicle.
 4. Products placed beyond the lines and levels of the required Work.
 5. Products remaining on hand after completion of the Work.
 6. Loading, hauling, and disposing of rejected Products.
6. SCHEDULE OF UNIT PRICES
 - A. Item: _____; Section _____.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.2200

Alternates

SECTION 01.2300 - ALTERNATES

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Description of Alternates.
 - B. Procedures for pricing Alternates.
2. RELATED REQUIREMENTS
 - A. Document 00.2113 - Instructions to Bidders: Instructions for preparation of pricing for Alternates.
 - B. Document 00.4323 - Alternates Form: List of Alternates as supplement to Bid Form.
3. ACCEPTANCE OF ALTERNATES
 - A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.
 - B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.
4. SCHEDULE OF ALTERNATES
 - A. Alternate No. #1 - :
 1. Front drop-off canopy, demolition of front exterior, including removal of existing storefront. Demolition and relocation of existing flag pole, including all associated work required for relocation of the flag pole at the front signage wall. Refer to 1&2/D101, 2/A102,
 - B. Alternate No. #2A - :
 1. New building signage (Option 1) Refer to 1/A106
 - C. Alternate No. #2B - :
 1. New building signage (Option 2) Refer to 2/A106
 - D. Alternate No. #3 - :
 1. New dumpster enclosure Refer to A107

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.2300

Administrative Requirements

SECTION 01.3000 - ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Preconstruction meeting.
 - B. Progress meetings.
 - C. Construction progress schedule.
 - D. Coordination drawings.
 - E. Submittals for review, information, and project closeout.
 - F. Number of copies of submittals.
 - G. Submittal procedures.
2. RELATED REQUIREMENTS
 - A. Section 00.7200 - General Conditions: Dates for applications for payment.
 - B. Section 01.3216 - Construction Progress Schedule: Form, content, and administration of schedules.
 - C. Section 01.7000 - Execution and Closeout Requirements: Additional coordination requirements.
 - D. Section 01.7800 - Closeout Submittals: Project record documents; operation and maintenance data; warranties and bonds.
3. PROJECT COORDINATOR
 - A. Project Coordinator: Contractor's Superintendent or Project Manager. The Contractor shall designate one individual as Project Coordinator and submit their qualifications to the Architect in writing prior to the start of Contract Work. The Project Coordinator shall not be changed during construction without the written consent of the Architect.
 - B. Cooperate with the Project Coordinator in allocation of mobilization areas of site; for field offices and sheds, for _____ access, traffic, and parking facilities.
 - C. During construction, coordinate use of site and facilities through the Project Coordinator.
 - D. Comply with Project Coordinator's procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.
 - E. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities. Responsibility for providing temporary utilities and construction facilities is identified in Section 01.1000 - Summary.
 - F. Coordinate field engineering and layout work under instructions of the Project Coordinator.
 - G. Make the following types of submittals to Architect through the Project Coordinator:
 1. Requests for Interpretation.
 2. Requests for substitution.
 3. Shop drawings, product data, and samples.
 4. Test and inspection reports.
 5. Manufacturer's instructions and field reports.
 6. Applications for payment and change order requests.
 7. Progress schedules.
 8. Coordination drawings.
 9. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

1. PRECONSTRUCTION MEETING
 - A. Architect will schedule and administer a meeting after Notice of Award and prior to the commencement of the work.
 - B. Attendance Required:
 1. Owner.
 2. Architect.
 3. Contractor, including Project Coordinator and Superintendent (if not the Project Coordinator).

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Administrative Requirements

4. Architect's Consultants.
 5. Major Subcontractors.
 6. Governmental or Regulatory agency representatives as required.
- C. Agenda:
 1. Execution of Owner-Contractor Agreement.
 2. Submission of executed bonds and insurance certificates.
 3. Distribution of Contract Documents.
 4. Designation of personnel representing the parties to Contract, _____ and .
 5. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 6. Scheduling.
 7. Use of premises by Owner and Contractor.
 8. Owner's requirements and occupancy prior to completion.
 9. Construction Facilities and controls provided by Owner.
 10. Temporary Utility provisions.
 11. Security and housekeeping procedures.
 12. Procedures for testing.
2. **PROGRESS MEETINGS**
 - A. Schedule and administer meetings throughout progress of the Work at maximum monthly intervals. Owner, Architect or Contractor may to cancel meeting if deemed necessary by mutual agreement of all parties.
 - B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.
 - C. Location: Contractor's field office unless otherwise agreed.
 - D. Attendance Required:
 1. Contractor.
 2. Owner.
 3. Architect.
 4. Contractor's superintendent.
 5. Major subcontractors.
 - E. Agenda:
 1. Review minutes of previous meetings.
 2. Review of work progress.
 3. Field observations, problems, and decisions.
 4. Identification of problems that impede, or will impede, planned progress.
 5. Review of submittals schedule and status of submittals.
 6. Review of off-site fabrication and delivery schedules.
 7. Maintenance of progress schedule.
 8. Corrective measures to regain projected schedules.
 9. Planned progress during succeeding work period.
 10. Coordination of projected progress.
 11. Maintenance of quality and work standards.
 12. Effect of proposed changes on progress schedule and coordination.
 13. Other business relating to work.
 - F. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
3. **CONSTRUCTION PROGRESS SCHEDULE**
 - A. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
 - B. Within 10 days after joint review, submit complete schedule.
 - C. Submit updated schedule with each Application for Payment.

4. COORDINATION DRAWINGS
 - A. Provide information required by Project Coordinator for preparation of coordination drawings.
 - B. Review drawings prior to submission to Architect.
5. SUBMITTALS FOR REVIEW
 - A. When the following are specified in individual sections, submit them for review:
 1. Product data.
 2. Shop drawings.
 3. Samples for selection.
 4. Samples for verification.
 - B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.
 - C. Samples will be reviewed only for aesthetic, color, or finish selection. Submit all samples within 30 days after the Notice to Proceed.
 - D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01.7800 - Closeout Submittals.
6. SUBMITTALS FOR INFORMATION
 - A. When the following are specified in individual sections, submit them for information:
 1. Design data.
 2. Certificates.
 3. Test reports.
 4. Inspection reports.
 5. Manufacturer's instructions.
 6. Manufacturer's field reports.
 7. _____.
 8. Other types indicated.
 - B. Submit for Architect's knowledge as contract administrator or for Owner.
7. SUBMITTALS FOR PROJECT CLOSEOUT
 - A. Submit Correction Punch List for Substantial Completion.
 - B. Submit Final Correction Punch List for Substantial Completion.
 - C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01.7800 - Closeout Submittals:
 1. Project record documents.
 2. Operation and maintenance data.
 3. Warranties.
 4. Bonds.
 5. _____.
 6. Other types as indicated.
 - D. Submit for Owner's benefit during and after project completion.
8. NUMBER OF COPIES OF SUBMITTALS
 - A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.
 - B. Extra Copies at Project Closeout: See Section 01.7800.
 - C. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
 1. After review, produce duplicates.
 2. Retained samples will not be returned to Contractor.
9. SUBMITTAL PROCEDURES
 - A. General Requirements:

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Administrative Requirements

- B. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents. Submittals that do not include the Contractor's stamp will be rejected.
- C. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
- D. Color schedules will be prepared by the Architect, and corresponding submittals for review after the Contractor has furnished all necessary color and finish samples.
- E. Incomplete submittals will be rejected.

END OF SECTION 01.3000

Construction Progress Schedule

SECTION 01.3216 - CONSTRUCTION PROGRESS SCHEDULE

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Preliminary schedule.
 - B. Construction progress schedule, bar chart type.
2. RELATED SECTIONS
 - A. Section 01.1000 - Summary: Work sequence.
3. REFERENCE STANDARDS
 - A. AGC (CPSM) - Construction Planning and Scheduling Manual; 2004.
 - B. M-H (CPM) - CPM in Construction Management - Project Management with CPM; O'Brien; 2006.
4. SUBMITTALS
 - A. Within 10 days after date of Agreement, submit preliminary schedule.
 - B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
 - C. Within 20 days after review of preliminary schedule, submit proposed complete schedule for review.
 - D. Submit updated schedule with each Application for Payment.
5. SCHEDULE FORMAT
 - A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.
 - B. Scale and Spacing: To allow for notations and revisions.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

1. PRELIMINARY SCHEDULE
 - A. Prepare preliminary schedule in the form of a horizontal bar chart.
2. CONTENT
 - A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.
 - B. Identify each item by specification section number.
 - C. Identify work of separate stages and other logically grouped activities.
 - D. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month.
 - E. Provide separate schedule of submittal dates for shop drawings, product data, and samples, owner-furnished products, products identified under Allowances, and dates reviewed submittals will be required from Architect. Indicate decision dates for selection of finishes.
 - F. Coordinate content with schedule of values specified in Section 01.2000 - Price and Payment Procedures.
 - G. Provide legend for symbols and abbreviations used.
3. BAR CHARTS
 - A. Include a separate bar for each major portion of Work or operation.
 - B. Identify the first work day of each week.
4. REVIEW AND EVALUATION OF SCHEDULE
 - A. Participate in joint review and evaluation of schedule with Architect at each submittal.
 - B. Evaluate project status to determine work behind schedule and work ahead of schedule.
 - C. After review, revise as necessary as result of review, and resubmit within 10 days.
5. UPDATING SCHEDULE
 - A. Maintain schedules to record actual start and finish dates of completed activities.
 - B. Indicate progress of each activity to date of revision, with projected completion date of each activity.
 - C. Annotate diagrams to graphically depict current status of Work.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Construction Progress Schedule

- D. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.
 - E. Indicate changes required to maintain Date of Substantial Completion.
 - F. Submit reports required to support recommended changes.
6. DISTRIBUTION OF SCHEDULE
- A. Distribute copies of updated schedules to Contractor's project site file, to subcontractors, suppliers, Architect, Owner, and other concerned parties.
 - B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

END OF SECTION 01.3216

Definitions

SECTION 01.4216 - DEFINITIONS

PART 1 GENERAL

1. SUMMARY

- A. This section supplements the definitions contained in the General Conditions.
- B. Other definitions are included in individual specification sections.

2. DEFINITIONS

- A. Furnish: To supply, deliver, unload, and inspect for damage.
- B. Install: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, start up, and make ready for use.
- C. Product: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-used materials or equipment.
- D. Project Manual: The book-sized volume that includes the procurement requirements (if any), the contracting requirements, and the specifications.
- E. Provide: To furnish and install, complete and ready for intended use.
- F. Supply: Same as Furnish.
- G. Installer: Contractor or another entity engaged by the Contractor, as an employee, subcontractor, or contractor of lower tier, to perform a particular construction operation.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.4216

Reference Standards

SECTION 01.4219 - REFERENCE STANDARDS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Requirements relating to referenced standards.
2. RELATED REQUIREMENTS
 - A. Document 00.7200 - General Conditions: Reference standards.
3. QUALITY ASSURANCE
 - A. For products or workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
 - B. Comply with the reference standard of date of issue specified in this section, except where a specific date is established by applicable code.
 - C. Should specified reference standards conflict with Contract Documents, request clarification from the Architect before proceeding.
 - D. Conformance to applicable laws and codes takes precedence over the requirements of all other reference standards.
 - E. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of the Architect shall be altered by Contract Documents by mention or inference otherwise in any reference document.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.4219

Temporary Facilities and Controls

SECTION 01.5000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Temporary utilities.
 - B. Temporary telecommunications services.
 - C. Temporary sanitary facilities.
 - D. Temporary Controls: Barriers, enclosures, and fencing.
 - E. Security requirements.
 - F. Vehicular access and parking.
 - G. Waste removal facilities and services.
2. TEMPORARY UTILITIES
 - A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.
3. TELECOMMUNICATIONS SERVICES
 - A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.
 - B. Telecommunications services shall include:
 1. Windows-based personal computer dedicated to project telecommunications, with necessary software and laser printer.
 2. Internet Connections: Minimum of one; DSL modem or faster.
 3. Email: Account/address reserved for project use.
4. TEMPORARY SANITARY FACILITIES
 - A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
 - B. Maintain daily in clean and sanitary condition.
5. BARRIERS
 - A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
 - B. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.
 - C. Provide protection for plants designated to remain. Replace damaged plants.
 - D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.
6. VEHICULAR ACCESS AND PARKING
 - A. Coordinate access and haul routes with governing authorities and Owner.
 - B. Provide and maintain access to fire hydrants, free of obstructions.
 - C. Coordinate parking for construction personnel with Owner's requirements.
7. WASTE REMOVAL
 - A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
 - B. Provide containers with lids. Remove trash from site weekly.
 - C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
8. REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS
 - A. Remove temporary utilities, equipment, facilities, materials, prior to Date of Substantial Completion inspection.
 - B. Remove underground installations to a minimum depth of 2 feet (600 mm). Grade site as indicated.
 - C. Clean and repair damage caused by installation or use of temporary work.

SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"

Temporary Facilities and Controls

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01.5000

Product Requirements

SECTION 01.6000 - PRODUCT REQUIREMENTS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. General product requirements.
 - B. Re-use of existing products.
 - C. Transportation, handling, storage and protection.
 - D. Product option requirements.
 - E. Substitution limitations.
 - F. Maintenance materials, including extra materials, spare parts, tools, and software.
2. RELATED REQUIREMENTS
 - A. Section 01.1000 - Summary: Lists of products to be removed from existing building.
 - B. Section 01.2500 - Substitution Procedures: Substitutions made during procurement and/or construction phases.
 - C. Section 01.4000 - Quality Requirements: Product quality monitoring.
 - D. Section 01.6116 - Volatile Organic Compound (VOC) Content Restrictions: Requirements for VOC-restricted product categories.
 - E. Section 01.7419 - Construction Waste Management and Disposal: Waste disposal requirements potentially affecting product selection, packaging and substitutions.
3. SUBMITTALS
 - A. Proposed Products List: Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
 1. Submit within 15 days after date of Agreement.
 2. For products specified only by reference standards, list applicable reference standards.
 - B. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
 - C. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
 - D. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
 1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 PRODUCTS

1. EXISTING PRODUCTS
 - A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by Contract Documents.
 - B. Unforeseen historic items encountered remain the property of the Owner; notify Owner promptly upon discovery; protect, remove, handle, and store as directed by Owner.
 - C. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.
2. NEW PRODUCTS
 - A. Provide new products unless specifically required or permitted by Contract Documents.
 - B. Use of products having any of the following characteristics is not permitted:
 1. Containing lead, cadmium, or asbestos.
 - C. Where other criteria are met, Contractor shall give preference to products that:
 1. If used on interior, have lower emissions, as defined in Section 01.6116.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Product Requirements

2. If wet-applied, have lower VOC content, as defined in Section 01.6116.
3. **PRODUCT OPTIONS**
 - A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
 - B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
 - C. Products Specified by Naming One or More Manufacturers with a Provision for Equal Substitutions: Submit a request for substitution for any manufacturer not named.
4. **MAINTENANCE MATERIALS**
 - A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
 - B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 EXECUTION

1. **SUBSTITUTION LIMITATIONS**
 - A. See Section 01.2500 - Substitution Procedures.
2. **TRANSPORTATION AND HANDLING**
 - A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
 - B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
 - C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
 - D. Transport and handle products in accordance with manufacturer's instructions.
 - E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
 - F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
 - G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.
 - H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.
3. **STORAGE AND PROTECTION**
 - A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See Section 01.7419.
 - B. Store and protect products in accordance with manufacturers' instructions.
 - C. Store with seals and labels intact and legible.
 - D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.
 - E. For exterior storage of fabricated products, place on sloped supports above ground.
 - F. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
 - G. Comply with manufacturer's warranty conditions, if any.
 - H. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
 - I. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
 - J. Prevent contact with material that may cause corrosion, discoloration, or staining.
 - K. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
 - L. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION 01.6000

Execution and Closeout Requirements

SECTION 01.7000 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Examination, preparation, and general installation procedures.
 - B. Requirements for alterations work, including selective demolition, _____.
 - C. Pre-installation meetings.
 - D. Cutting and patching.
 - E. Surveying for laying out the work.
 - F. Cleaning and protection.
 - G. Starting of systems and equipment.
 - H. Demonstration and instruction of Owner personnel.
 - I. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.
 - J. General requirements for maintenance service.
2. RELATED REQUIREMENTS
 - A. Section 01.1000 - Summary: Limitations on working in existing building; continued occupancy; work sequence; identification of salvaged and relocated materials.
 - B. Section 01.3000 - Administrative Requirements: Submittals procedures, Electronic document submittal service.
 - C. Section 01.4000 - Quality Requirements: Testing and inspection procedures.
 - D. Section 01.5000 - Temporary Facilities and Controls: Temporary exterior enclosures.
 - E. Section 01.5000 - Temporary Facilities and Controls: Temporary interior partitions.
 - F. Section 01.7800 - Closeout Submittals: Project record documents, operation and maintenance data, warranties, and bonds.
 - G. Section 01.7900 - Demonstration and Training: Demonstration of products and systems to be commissioned and where indicated in specific specification sections
3. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
 1. Structural integrity of any element of Project.
 2. Integrity of weather exposed or moisture resistant element.
 3. Efficiency, maintenance, or safety of any operational element.
 4. Visual qualities of sight exposed elements.
 5. Work of Owner or separate Contractor.
 - C. Project Record Documents: Accurately record actual locations of capped and active utilities.
4. PROJECT CONDITIONS
 - A. Use of explosives is not permitted.
 - B. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.
 - C. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
 - D. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
 - E. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
 - F. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.
5. COORDINATION
 - A. See Section 01.1000 for occupancy-related requirements.

- B. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- C. Notify affected utility companies and comply with their requirements.
- D. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- E. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- F. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
- G. Coordinate completion and clean-up of work of separate sections.
- H. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

- 1. PATCHING MATERIALS
 - A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
 - B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.
 - C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01.6000 - Product Requirements.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
 - B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
 - C. Examine and verify specific conditions described in individual specification sections.
 - D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
 - E. Verify that utility services are available, of the correct characteristics, and in the correct locations.
 - F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.
- 2. PREPARATION
 - A. Clean substrate surfaces prior to applying next material or substance.
 - B. Seal cracks or openings of substrate prior to applying next material or substance.
 - C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.
- 3. PREINSTALLATION MEETINGS
 - A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.
 - B. Require attendance of parties directly affecting, or affected by, work of the specific section.
 - C. Notify Architect four days in advance of meeting date.
 - D. Prepare agenda and preside at meeting:
 - 1. Review conditions of examination, preparation and installation procedures.
 - 2. Review coordination with related work.

- E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
- 4. LAYING OUT THE WORK
 - A. Verify locations of survey control points prior to starting work.
 - B. Promptly notify Architect of any discrepancies discovered.
 - C. Protect survey control points prior to starting site work; preserve permanent reference points during construction.
 - D. Promptly report to Architect the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.
 - E. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.
 - F. Utilize recognized engineering survey practices.
 - G. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
 - 1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations; and _____.
 - 2. Grid or axis for structures.
 - 3. Building foundation, column locations, ground floor elevations, and _____.
 - H. Periodically verify layouts by same means.
- 5. GENERAL INSTALLATION REQUIREMENTS
 - A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
 - B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
 - C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
 - D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
 - E. Make neat transitions between different surfaces, maintaining texture and appearance.
- 6. CUTTING AND PATCHING
 - A. Whenever possible, execute the work by methods that avoid cutting or patching.
 - B. Perform whatever cutting and patching is necessary to:
 - 1. Complete the work.
 - 2. Fit products together to integrate with other work.
 - 3. Provide openings for penetration of mechanical, electrical, and other services.
 - 4. Match work that has been cut to adjacent work.
 - 5. Repair areas adjacent to cuts to required condition.
 - 6. Repair new work damaged by subsequent work.
 - 7. Remove samples of installed work for testing when requested.
 - 8. Remove and replace defective and non-complying work.
 - C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work minimize damage and restore to specified condition.
 - D. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
 - E. Restore work with new products in accordance with requirements of Contract Documents.
 - F. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
 - G. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07.8400, to full thickness of the penetrated element.
 - H. Patching:
 - 1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
 - 2. Match color, texture, and appearance.
 - 3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Execution and Closeout Requirements

7. **PROGRESS CLEANING**
 - A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
 - B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
 - C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
 - D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.
8. **PROTECTION OF INSTALLED WORK**
 - A. Protect installed work from damage by construction operations.
 - B. Provide special protection where specified in individual specification sections.
 - C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
 - D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
 - E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
 - F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
 - G. Prohibit traffic from landscaped areas.
 - H. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.
9. **SYSTEM STARTUP**
 - A. Coordinate schedule for start-up of various equipment and systems.
 - B. Notify Architect and Owner seven days prior to start-up of each item.
 - C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.
 - D. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
 - E. Verify that wiring and support components for equipment are complete and tested.
 - F. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.
 - G. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation prior to start-up, and to supervise placing equipment or system in operation.
 - H. Submit a written report that equipment or system has been properly installed and is functioning correctly.
10. **DEMONSTRATION AND INSTRUCTION**
 - A. See Section 01.7900 - Demonstration and Training.
11. **ADJUSTING**
 - A. Adjust operating products and equipment to ensure smooth and unhindered operation.
12. **FINAL CLEANING**
 - A. Execute final cleaning prior to final project assessment.
 - B. Use cleaning materials that are nonhazardous.
 - C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
 - D. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
 - E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
 - F. Replace filters of operating equipment.
 - G. Clean debris from roofs, gutters, downspouts, scuppers, overflow drains, area drains, drainage systems, and _____.
 - H. Clean site; sweep paved areas, rake clean landscaped surfaces.

- I. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.
13. CLOSEOUT PROCEDURES
 - A. Submit the following prior to final inspection:
 1. Preliminary Operation and Maintenance data as outlined in Section 01.7800.
 2. Submittals that are required by governing or other authorities.
 - a. Provide copies of such documents to Architect and Owner.
 3. Copies of the Contractor's list of items to be completed or corrected prior to final payment.
 - B. Notify Architect in writing when work is considered ready for Substantial Completion.
 1. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.
 2. Give notice 10 days prior to requested date for Architect's inspection.
 3. Owner will occupy all of the building as specified in Section 01.1000.
 4. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.
 - C. The Architect will make an inspection to determine whether the Work or designated portion is substantially complete. The Architect will issue a Punch-list containing any work to be completed prior to Final Inspection and Substantial Completion.
 - D. Correct items of work listed and request final inspection when complete.
 - E. The Owner and Architect will make a final inspection to determine whether the Work or designated portion is complete. A Certificate of Substantial Completion will be issued with any final items for correction or completion.
 - F. Should additional inspection by the Architect, the Architect's consultants or Owner be required due to the failure of the Contractor to complete items previously listed to be incomplete, the Owner may deduct the expense of such inspections from the Contract Sum at the rate shown for such services in the Owner Architect agreement.
 - G. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.
 - H. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection.
 - I. Submit the following after final inspection but prior to the Final Application for Payment:
 1. Final Operation and Maintenance data as outlined in Section 01.7800.
 2. Final Warranty and Bond information as outlined in Section 01.7800.
 3. Surplus materials, final door locking hardware and other items as directed in the Contract Documents.
 - J. Perform Demonstration and Training as outlined in Section 01.7900 prior to the Final Application for Payment.
 - K. Submit the Final Application for Payment as outlined in Section 01.2000 with all required supporting documentation and Project Record Documents as outlined in Section 01.7800.
14. MAINTENANCE
 - A. Provide service and maintenance of components indicated in specification sections.
 - B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial Completion or the length of the specified warranty, whichever is longer.
 - C. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
 - D. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.
 - E. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Owner.

END OF SECTION 01.7000

Closeout Submittals

SECTION 01.7800 - CLOSEOUT SUBMITTALS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Project Record Documents.
 - B. Operation and Maintenance Data.
 - C. Warranties and bonds.
2. RELATED REQUIREMENTS
 - A. Section 00.7200 - General Conditions: Performance bond and labor and material payment bonds, warranty, and correction of work.
 - B. Section 01.3000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
 - C. Section 01.7000 - Execution and Closeout Requirements: Contract closeout procedures.
 - D. Individual Product Sections: Specific requirements for operation and maintenance data.
 - E. Individual Product Sections: Warranties required for specific products or Work.
3. SUBMITTALS
 - A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.
 - B. Supporting Documents for Final Payment:
 1. Contractor's Affidavit of Payment of Debts and Claims: AIA Document G706, current condition, completed in full.
 2. Release of Liens: AIA Document G706A, current condition, completed in full.
 3. Consent of Surety Company to Final Payment G707: current edition, completed in full by the bonding company.
 4. Power of Attorney: use appropriate documentation.
 5. Submit all to Architect with claim for final Application for Payment.
 - C. Warranties and Bonds:
 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit warranty documents within 10 days after acceptance.
 2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.
 4. Contractor's Guarantee of Work: Provide a sworn statement that all Work is asbestos free and guaranteed against defects in materials and workmanship for one year from date of Owner's acceptance, except where specified for longer periods.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

1. PROJECT RECORD DOCUMENTS
 - A. Maintain on site one set of the following record documents; record actual revisions to the Work:
 1. Drawings.
 2. Specifications.
 3. Addenda.
 4. Change Orders and other modifications to the Contract.
 5. Reviewed shop drawings, product data, and samples.
 6. Manufacturer's instruction for assembly, installation, and adjusting.
 - B. Ensure entries are complete and accurate, enabling future reference by Owner.
 - C. Store record documents separate from documents used for construction.
 - D. Record information concurrent with construction progress.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Closeout Submittals

- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda and modifications.
- F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
 - 1. Field changes of dimension and detail.
 - 2. Details not on original Contract drawings.
- 2. **WARRANTIES AND BONDS**
 - A. All Warranties and Bonds shall be obtained in the Owner's name.
 - B. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.
 - C. Verify that documents are in proper form, contain full information, and are notarized.
 - D. Co-execute submittals when required.
 - E. Retain warranties and bonds until time specified for submittal.
 - F. Include originals of each in operation and maintenance manuals, indexed separately on Table of Contents.
 - G. Within the guarantee period the Contractor shall promptly place in satisfactory condition in every particular, all such guaranteed work.
 - H. If, after notice, the Contractor fails to proceed promptly to comply with the terms of the guaranty, the Owner may have the defects corrected and the Contractor and his sureties shall be liable for all expenses incurred.

END OF SECTION 01.7800

Demonstration and Training

SECTION 01.7900 - DEMONSTRATION AND TRAINING

PART 1 GENERAL

1. SUMMARY
 - A. Demonstration of products and systems where indicated in specific specification sections.
2. RELATED REQUIREMENTS
 - A. Section 01.7800 - Closeout Submittals: Operation and maintenance manuals.
 - B. Other Specification Sections: Additional requirements for demonstration and training.
3. QUALITY ASSURANCE
 - A. Instructor Qualifications: Familiar with design, operation, maintenance and troubleshooting of the relevant products and systems.
 1. Provide as instructors the most qualified trainer of those contractors and/or installers who actually supplied and installed the systems and equipment.
 2. Where a single person is not familiar with all aspects, provide specialists with necessary qualifications.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

1. DEMONSTRATION - GENERAL
 - A. Demonstrations conducted during system start-up do not qualify as demonstrations for the purposes of this section, unless approved in advance by Owner.
 - B. Demonstration may be combined with Owner personnel training if applicable.
 - C. Non-Operating Products: Demonstrate cleaning, scheduled and preventive maintenance, and repair procedures.
 1. Perform demonstrations prior to Substantial Completion.

END OF SECTION 01.7900

Demolition

SECTION 02.4100 - DEMOLITION

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Selective demolition of building elements for alteration purposes.
2. RELATED REQUIREMENTS
 - A. Section 01.1000 - Summary: Limitations on Contractor's use of site and premises.
 - B. Section 01.1000 - Summary: Sequencing and staging requirements.
 - C. Section 01.1000 - Summary: Description of items to be removed by Owner.
 - D. Section 01.1000 - Summary: Description of items to be salvaged or removed for re-use by Contractor.
 - E. Section 01.5000 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
 - F. Section 01.6000 - Product Requirements: Handling and storage of items removed for salvage and relocation.
 - G. Section 01.7000 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.
 - H. Section 31.2323 - Fill: Fill material for filling holes, pits, and excavations generated as a result of removal operations.
3. REFERENCE STANDARDS
 - A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.
 - B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2013.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

PART 2 PRODUCTS -- NOT USED

PART 3 EXECUTION

1. SCOPE
 - A. Within area of new construction, remove foundation walls and footings to a minimum of 2 feet (600 mm) below finished grade or as required for installation of new structure.
 - B. Completely remove all items for alteration as indicated in the Drawings. Remove other incidental items (i.e. adhesives, fasteners, etc...) as required so remaining substrate is properly prepared for subsequent work..
 - C. Fill excavations, open pits, and holes in ground areas generated as result of removals, using specified fill; compact fill _____.
2. GENERAL PROCEDURES AND PROJECT CONDITIONS
 - A. Comply with other requirements specified in Section 01.7000.
 - B. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 1. Obtain required permits.
 2. Use of explosives is not permitted.
 3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 4. Provide, erect, and maintain temporary barriers and security devices.
 5. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
 6. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 7. Do not close or obstruct roadways or sidewalks without permit.
 8. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Demolition

- C. Do not begin removal until receipt of notification to proceed from Owner.
 - D. Do not begin removal until built elements to be salvaged or relocated have been removed.
 - E. Protect existing structures and other elements that are not to be removed.
 - 1. Provide bracing and shoring.
 - 2. Prevent movement or settlement of adjacent structures.
 - 3. Stop work immediately if adjacent structures appear to be in danger. Do not resume operations until conditions have been corrected and / or secured.
 - F. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
 - G. If unanticipated mechanical, plumbing, electrical or structural elements are found to be in conflict with the design as documented in the drawings and specifications, investigate and measure the nature and extent of the conflict. Submit written report documenting the conflict to Architect.
 - H. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury. Comply with applicable regulations, laws, and ordinances concerning removal, handling and protection against exposure or environmental pollution.
3. EXISTING UTILITIES
- A. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
 - B. Protect existing utilities to remain from damage.
 - C. Do not disrupt public utilities without permit from authority having jurisdiction.
 - D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
 - E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
 - F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
 - G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
 - H. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone; identify and mark utilities to be subsequently reconnected, in same manner as other utilities to remain.
4. SELECTIVE DEMOLITION FOR ALTERATIONS
- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only. The Owner assumes no responsibility for the actual condition of items or structures to be removed.
 - 1. Verify that construction and utility arrangements are as indicated.
 - 2. Report discrepancies to Architect before disturbing existing installation.
 - 3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
 - B. Separate areas in which demolition is being conducted from other areas that are still occupied.
 - 1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 01.5000 in locations indicated on drawings.
 - C. Remove existing work as indicated and as required to accomplish new work.
 - 1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction specified.
 - 2. Remove items indicated on drawings.
 - D. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, Telecommunications, and _____): Remove existing systems and equipment as indicated.
 - 1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.

2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
 3. Verify that abandoned services serve only abandoned facilities before removal.
 4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.
- E. Protect existing work to remain.
 1. Prevent movement of structure; provide shoring and bracing if necessary.
 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
 3. Repair adjacent construction and finishes damaged during removal work.
 4. Patch as specified for patching new work.
5. DEBRIS AND WASTE REMOVAL
 - A. Remove debris, junk, and trash from site.
 - B. Leave site in clean condition, ready for subsequent work.
 - C. Clean up spillage and wind-blown debris from public and private lands.
6. DAMAGE AND REPAIR
 - A. Damage to adjacent construction or surfaces caused by demolition work is to be repaired to match conditions prior to the start of demolition.
 - B. All repairs are to be made promptly and at no additional cost to the Owner.

END OF SECTION 02.4100

Underslab Vapor Barrier - Stego

SECTION 03.0516 - UNDERSLAB VAPOR BARRIER - STEGO

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Sheet vapor barrier under concrete slabs on grade.
2. RELATED REQUIREMENTS
 - A. Section 03.1000 - Concrete Forming and Accessories: Forms and accessories for formwork.
 - B. Section 03.2000 - Concrete Reinforcing.
 - C. Section 03.3000 - Cast-in-Place Concrete: Preparation of subgrade, granular fill, placement of concrete.
3. REFERENCE STANDARDS
 - A. ASTM E1643 - Standard Practice for Selection, Design, Installation and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs; 2011.
 - B. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs; 2011.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Submit manufacturers' data on manufactured products.
 - C. Manufacturer's Installation Instructions: Indicate installation procedures and interface required with adjacent construction.

PART 2 PRODUCTS

1. MATERIALS
 - A. Underslab Vapor Barrier:
 1. Water Vapor Permeance: Not more than 0.010 perms (0.6 ng/(s m² Pa)), maximum.
 2. Complying with ASTM E1745 Class A.
 3. Thickness: 15 mils (0.4 mm).
 4. Basis of Design:
 - a. Stego Industries LLC; Stego Wrap Vapor Barrier (15-mil): www.stegoindustries.com/#sle.
 - b. Substitutions: See Section 01.6000 - Product Requirements.
 - B. Accessory Products: Vapor barrier manufacturer's recommended tape, adhesive, mastic, pipe boots, etc., for sealing seams and penetrations in vapor barrier.

PART 3 EXECUTION

1. EXAMINATION
 - A. Verify that surface over which vapor barrier is to be installed is complete and ready before proceeding with installation of vapor barrier.
2. INSTALLATION
 - A. Install vapor barrier in accordance with manufacturer's instructions and ASTM E1643.
 - B. Install vapor barrier under interior slabs on grade, grade beams and in other areas as shown in the drawings; lap sheet over footings and seal to foundation walls unless shown otherwise.
 - C. Lap joints, including all penetrations and patches, a minimum 6 inches (150 mm).
 - D. Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions.
 - E. No penetration of vapor barrier is allowed except for reinforcing steel and permanent utilities.
 - F. Repair damaged vapor retarder before covering with other materials.

END OF SECTION 03.0516

Concrete Forming and Accessories

SECTION 03.1000 - CONCRETE FORMING AND ACCESSORIES

PART 2 PRODUCTS

1. FORMWORK - GENERAL

- A. Provide concrete forms, accessories, shoring, and bracing as required to accomplish cast-in-place concrete work.
- B. Design and construct concrete that complies with design with respect to shape, lines, and dimensions.
- C. Comply with applicable state and local codes with respect to design, fabrication, erection, and removal of formwork.

END OF SECTION 03.1000

Concrete Reinforcing

SECTION 03.2000 - CONCRETE REINFORCING

PART 1 GENERAL

1. SEE STRUCTURAL DRAWINGS

END OF SECTION 03.2000

Cast-in-Place Concrete

SECTION 03.3000 - CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1. SEE STRUCTURAL DRAWINGS

END OF SECTION 03.3000

SECTION 04.2000 - UNIT MASONRY

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Concrete block.
 - B. Concrete building brick.
 - C. Clay facing brick.
 - D. Common brick.
 - E. Reinforcement and anchorage.
 - F. Flashings.
 - G. Accessories.
2. RELATED REQUIREMENTS
 - A. Section 04.0511 - Masonry Mortaring and Grouting.
 - B. Section 07.9200 - Joint Sealants: Sealing control and expansion joints.
3. REFERENCE STANDARDS
 - A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
 - B. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2009a (Reapproved 2014).
 - C. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2015.
 - D. ASTM C55 - Standard Specification for Concrete Building Brick; 2011.
 - E. ASTM C62 - Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale); 2013.
 - F. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units; 2014.
 - G. ASTM C129 - Standard Specification for Nonloadbearing Concrete Masonry Units; 2011.
 - H. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale); 2014.
 - I. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2014a.
 - J. ASTM C1072 - Standard Test Method for Measurement of Masonry Flexural Bond Strength; 2013.
 - K. ASTM C1148 - Standard Test Method for Measuring the Drying Shrinkage of Masonry Mortar; 1992a (Reapproved 2008).
 - L. ASTM C1314 - Standard Test Method for Compressive Strength of Masonry Prisms; 2014.
 - M. ASTM C1634 - Standard Specification for Concrete Facing Brick; 2011.
 - N. ASTM E514/E514M - Standard Test Method for Water Penetration and Leakage Through Masonry; 2014.
 - O. BIA Technical Notes No. 7 - Water Penetration Resistance – Design and Detailing; 2005.
 - P. BIA Technical Notes No. 13 - Ceramic Glazed Brick Exterior Walls; 2017.
 - Q. BIA Technical Notes No. 28B - Brick Veneer/Steel Stud Walls; 2005.
 - R. BIA Technical Notes No. 46 - Maintenance of Brick Masonry; 2005.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.
 - C. Samples: Submit four samples of facing brick units to illustrate color, texture, and extremes of color range.
 - D. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.
 - E. Furnish samples for the following items:
 1. One full size sample of each specified type of 8"x8"x16" stretcher concrete masonry unit.
 2. One each of embedded masonry accessories.
 - F. Manufacturer's Certificate: Certify that water repellent admixture manufacturer has certified masonry unit manufacturer as an approved user of water repellent admixture in the manufacture of concrete block.

5. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section with minimum three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of experience.
- C. Single Source Responsibility for masonry units: Obtain exposed masonry units of uniform texture and color. Concrete masonry units that vary in texture or color shall be culled and removed from the site.
- D. Single Source Responsibility for Mortar Materials: Obtain mortar ingredients of uniform quality for all exposed masonry from one manufacturer for each cementitious component and from one source and producer for each aggregate.
- E. Pre – Installation Meeting: Contractor shall schedule a Concrete Masonry pre- installation meeting with Architect, General Contractor, masonry and mortar product representatives, and installer prior to installation of CMU walls to discuss job specific and standard installation procedures.
- F. Quality of Masonry Units: All masonry units shall be uniform in color, texture and size with sharp straight corners and without chipped or broken corners or faces. Exposed masonry units with chipped or broken corners, faces or other defects shall be culled and discarded. All such units placed in a wall shall be removed and replaced. Concrete blocks shall conform to ASTM C90 TYPE 1. The provisions of ASTM C90 Paragraph 7.3.1 apply with regard to imperfections. The exception being no chip larger than 1/4" diameter and no dimensional tolerances larger than 1/16" shall be installed.

6. MOCK-UP

- A. Construct a masonry wall as a mock-up panel sized 8 feet (2.4 m) long by 6 feet (1.8 m) high; include mortar, accessories, structural backup, and flashings (with lap joint, corner, and end dam) in mock-up. Upon written approval of the Architect, this panel will become the quality standard for the job and be incorporated into the work. Any work which fails to meet the approved standard will be removed and replaced without additional cost to the Owner.
- B. Locate where directed.
- C. Mock-up may remain as part of the Work.

7. DELIVERY, STORAGE, AND HANDLING

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.
- B. Handle and protect all materials so as to protect them against staining, breakage, deterioration and mixture with non approved materials. Keep palletized materials in original condition until ready for use.

PART 2 PRODUCTS

1. CONCRETE MASONRY UNITS

- A. Concrete Block: Comply with referenced standards and as follows:
 - 1. Size: Standard units with nominal face dimensions of 16 by 8 inches (400 by 200 mm) and nominal depths as indicated on drawings for specific locations.
 - 2. Load-Bearing Units: ASTM C90, normal weight.
 - a. Exposed Faces: Manufacturer's standard color and texture where indicated.
 - 3. Non-Loadbearing Units: ASTM C129.
 - a. Hollow block, as indicated.
 - 4. Hollow concrete masonry units to comply with ASTM C-90, Grade N, Type I in color "Natural Gray," having a compressive strength of 1,900 PSI. All block surfaces shall be uniform in texture and color.
 - 5. Standard Block: Block shall be 8"x16" nominal modular face, thickness indicated on drawings.
 - 6. Solid Concrete Masonry Units: To comply with ASTM C-145, Grade N, with an average compressive strength of 1,800 PSI.
 - 7. Special Shape Concrete Masonry Units: Proved accessory shapes as indicated or otherwise required to include flush end, halves, lintel block, "U" blocks, jamb blocks, solid bull-nose wall caps and other special shapes.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Unit Masonry

8. Units with Integral Water Repellent: Concrete block units as specified in this section with polymeric liquid admixture added to concrete masonry units at the time of manufacture.
 - a. Performance of Units with Integral Water Repellent:
 - 1) Water Permeance: When tested per ASTM E514/E514M and for a minimum of 72 hours.
 - a) No water visible on back of wall above flashing at the end of 24 hours.
 - b) No flow of water from flashing equal to or greater than 0.032 gallons per hour (0.05 L per hour) at the end of 24 hours.
 - c) No more than 25 percent of wall area above flashing visibly damp at end of test.
 - 2) Flexural Bond Strength: ASTM C1072; minimum 10 percent increase.
 - 3) Compressive Strength: ASTM C1314; maximum 5 percent decrease.
 - 4) Drying Shrinkage: ASTM C1148; maximum 5 percent increase in shrinkage.
 - b. Use only in combination with mortar that also has integral water repellent admixture.
 - c. Use water repellent admixtures for masonry units and mortar by a single manufacturer.
 - d. Manufacturers:
 - 1) _____.
 - 2) Substitutions: See Section 01.6000 - Product Requirements.
 - B. Concrete Brick:
 1. For below grade use, ASTM C1634 (or ASTM C55, Grade N), normal weight.
2. BRICK UNITS
- A. Manufacturers:
 1. _____.
 2. Substitutions: See section 01.6000 - Product Requirements.
 - B. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
 1. Color and texture to match Architect's sample.
 2. Nominal size: As indicated on drawings.
 3. Special shapes: Molded units as required by conditions indicated, unless standard units can be sawn to produce equivalent effect.
3. MORTAR AND GROUT MATERIALS
- A. Mortar and Grout: As specified in Section 04.0511.
4. REINFORCEMENT AND ANCHORAGE
- A. Manufacturers:
 1. Hohmann & Barnard, Inc; X-Seal Anchor: www.h-b.com/#sle.
 2. _____.
 3. Substitutions: See Section 01.6000 - Product Requirements.
 - B. Continuous type of standard manufacture, hot-dipped galvanized truss design. Reinforcement shall have not less than No. 9 steel wire cross rods and No. 9 deformed side rods conforming to ASTM A-153, Class B2. Use proper width for wall thicknesses as shown on the drawings. Anchors of various types as required.
 - C. At all CMU partition intersections: Use #344 Galvanized rigid partition anchors at 16" o.c. vertical, as manufactured by Hohmann & Barnard or Architect's approved equal, grouting one (1) cell in each of the intersecting partitions full height.
 - D. Furnish complete prefabricated corners and tees.
 - E. Single Wythe Joint Reinforcement: Truss or ladder type; ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M, Class 3; 0.1483 inch (3.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods; width as required to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage on each exposure.
 - F. Strap Anchors: Bent steel shapes, 1-1/2 inch (38 mm) width, 0.105 inch (2.7 mm) thick, 24 inch (610 mm) length, with 1-1/2 inch (38 mm) long, 90 degree bend at each end to form a U or Z shape or with cross pins, hot dip galvanized to ASTM A153/A153M Class B.
 - G. Flexible Anchors: 2-piece anchors that permit differential movement between masonry and building frame, sized to provide not less than 5/8 inch (16 mm) of mortar coverage from masonry face.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Unit Masonry

- H. Two-Piece Wall Brick Ties: Formed steel wire, 0.1875 inch (4.8 mm) thick, adjustable, eye and pintle type, hot dip galvanized to ASTM A 153/A 153M, Class B, sized to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage from masonry face and to allow vertical adjustment of up to 1-1/4 in (32 mm). Install spaced at 16" o.c. vertical and 32" o.c. horizontal.
 - I. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B.
 - 1. Anchor plates: Not less than 0.075 inch (1.91 mm) thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
 - 2. Wire ties: Manufacturer's standard shape, 0.1875 inch (4.75 mm) thick.
 - 3. Vertical adjustment: Not less than 3-1/2 inches (89 mm).
 - J. Control joint wall ties: shall be equal to Hohmann & Barnard Slip-set Stabilizer, hot-dipped galvanized using
 - 1. PVC control joint: shall be equal to Hohmann & Barnard #VS-Standard. PVC material shall conform to ASTM D-2287 and tested in conformance with ASTM D-2240.
 - 2. Type "H" for horizontal mortar joint and type "V" to connect to intersecting wall. Ties shall be placed 16" o.c. max. vertically.
 - K. Single Wythe Concrete Masonry Unit Drainage System:
 - 1. Fill full the cores of the first CMU course. Install CMU cell flashing pans above first CMU course in 2 beads of butyl sealant with built in adjoining bridge made from recycled polypropylene with chemical stabilizers that prevent UV degradation. Flashing pans have a sloped design to direct moisture to the integrated weep spout. Ensure spout sits flush with top of block below. Fully pack mortar around spout to create a clean neat solid joint. Pan is designed to be built into mortar bed joints to expel moisture (unimpeded by mortar droppings) to the exterior of CMU walls. Drainage Mattes and Bug Guards included. Product: provide "BLOCKFLASH as manufactured by Mortar Net Solutions or approved equal
5. FLASHINGS
- A. Refer to Section 07.6200.
6. ACCESSORIES
- A. Preformed Control Joints: Rubber material. Provide with corner and tee accessories, fused joints.
 - 1. Manufacturers:
 - a. Hohmann & Barnard, Inc; _____: www.h-b.com/#sle.
 - b. _____.
 - c. Substitutions: See Section 01.6000 - Product Requirements.
 - B. Joint Filler: Closed cell polyvinyl chloride; oversized 50 percent to joint width; self expanding; in maximum lengths available.
 - 1. Manufacturers:
 - a. Hohmann & Barnard, Inc; _____: www.h-b.com/#sle.
 - C. Termination Bars: Stainless steel; compatible with membrane and adhesives.
 - D. Drip Edge: Stainless steel; compatible with membrane and adhesives.
 - E. Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane and adhesives.
 - F. Weeps:
 - 1. Weep/Vent Products: Use the following, unless otherwise indicated:
 - 2. 100% cotton weep cord 3/8" diameter extending min. 18" up surface of wall and taped. Leave cord extending out of wall for duration of construction. Once construction is complete, contractor to cut back cord to 3/4" from face of masonry.
 - G. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Verify that field conditions are acceptable and are ready to receive masonry.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Unit Masonry

- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.
- 2. PREPARATION
 - A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
 - B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.
- 3. COLD AND HOT WEATHER REQUIREMENTS
 - A. Maintain materials and surrounding air temperature to minimum 40 degrees F (5 degrees C) prior to, during, and 48 hours after completion of masonry work.
 - B. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.
- 4. COURSING
 - A. Establish lines, levels, and coursing indicated. Protect from displacement.
 - B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
 - C. Concrete Masonry Units:
 - 1. Bond: Running.
 - 2. Mortar Joints: Concave.
- 5. PLACING AND BONDING
 - A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
 - B. Lay hollow masonry units with face shell bedding on head and bed joints.
 - C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
 - D. Employ solid bricks @ ends of rowlock sills and all other locations where holes may be visible.
 - E. Remove excess mortar and mortar smears as work progresses.
 - F. Interlock intersections and external corners, except for units laid in stack bond.
 - G. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
 - H. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
 - I. Cut mortar joints flush where wall tile is scheduled or resilient base is scheduled.
 - J. Joint treatment:
 - 1. Exposed block: Make joints uniform, approximately 3/8" (plus or minus a maximum variance of 1/16") wide, tool and compress concave joint using 18" long tool on each side unless otherwise noted in drawings or below. Mortar joints should be tooled to a concave profile when the mortar is thumbprint hard.
 - 2. Concealed Block: Make joints uniform approximately 3/8" wide, cut mortar flush with face of block.
 - 3. Point and fill flush all exterior cavity side masonry joints as work progresses. Do not leave any voids or cracks larger than 1/32" or excess mortar or mortar residue on surface. Architect must inspect and approve surface prior to installation of dampproofing or waterproofing.
 - K. Protect all exposed masonry during construction against staining and excess mortar. As the work progresses, clean mortar daubs, smears and residue from masonry work before it sets up. No anti-freeze ingredient shall be used.
- 6. WEEPS/CAVITY VENTS
 - A. Install cotton cord weeps in veneer and cavity walls at 24 inches (600 mm) on center horizontally above through-wall flashing, above shelf angles and lintels, and at bottom of walls. Extend a min. 18" up surface of wall and tape. Leave cord extending out of wall for duration of construction. Once construction is complete, contractor to cut back cord to 3/4" from face of masonry.
- 7. CAVITY MORTAR CONTROL
 - A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.
 - B. Rake backside of brick/block to help maintain a clean cavity.

8. REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, AND CAVITY WALL MASONRY
 - A. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.
 - B. Place continuous joint reinforcement in first and second joint below top of walls.
 - C. Lap joint reinforcement ends minimum 6 inches (150 mm).
 - D. Fasten anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated under specific wall type, space anchors at maximum of 36 inches (900 mm) horizontally and 24 inches (600 mm) vertically.
 - E. Install trussed or ladder wall reinforcing in the first and second bed joint and at 16" o.c. vertically elsewhere. Lap side rods at splices at least 6" and per manufacturer's minimum requirements. Use pre-fabricated corner units at all corners and intersections for anchoring abutting walls and partitions.
 - F. Cut or interrupt joint reinforcement at control and expansion joints unless otherwise indicated.
 - G. Install control and expansion joints in unit masonry where indicated. Build in related items as the masonry progresses. Do not form a continuous span through movement joints unless provisions are made to prevent in-plane restraint of wall or partition movement.
9. REINFORCEMENT AND ANCHORAGE - SINGLE WYTHE MASONRY
 - A. Install horizontal joint reinforcement 8 inches (200 mm) on center.
 - B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.
10. MASONRY FLASHINGS
 - A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
 1. Extend flashings full width at such interruptions and at least 6 inches (152 mm), minimum, into adjacent masonry or turn up flashing ends at least 1 inch (25.4 mm), minimum, to form watertight pan at non-masonry construction.
 - B. Extend metal flashings to within 1/2 inch (12 mm) of exterior face of masonry and adhere to top of stainless steel angled drip with hemmed edge.
 - C. Lap end joints of flashings at least 6 inches (152 mm), minimum, and seal watertight with flashing sealant/adhesive.
11. CONTROL AND EXPANSION JOINTS
 - A. Do not continue horizontal joint reinforcement through control or expansion joints.
 - B. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with manufacturer's instructions.
12. TOLERANCES
 - A. Maximum Variation From Unit to Adjacent Unit: 1/16 inch (1.6 mm).
 - B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft (6 mm/3 m) and 1/2 inch in 20 ft (13 mm/6 m) or more.
 - C. Maximum Variation from Plumb: 1/4 inch (6 mm) per story non-cumulative; 1/2 inch (13 mm) in two stories or more.
13. CLEANING
 - A. Remove excess mortar and mortar droppings.
 - B. Replace defective mortar. Match adjacent work.
 - C. Clean soiled surfaces with cleaning solution.
 - D. On completion, fill all holes and joints. Remove loose mortar. All daubs, smears and mortar residue left on wall surface shall be cleaned by scraping or wire brushing.
 - E. Masonry joints and masonry units that cannot be pointed up and cleaned to the Architect's satisfaction shall be removed and replaced.
 - F. Keep walls clean daily during installation using brushes, rags, and burlap squares. Do not allow excess mortar lumps, smears or residue to harden on the finished concrete masonry surfaces. Remove green mortar with burlap or dry cloth. Harsh cleaning methods after walls have been erected may affect the visual appearance and surface of the blocks and shall be avoided. All work that cannot be cleaned to the Architect's satisfaction shall be removed and replaced.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Unit Masonry

- G. Final cleaning: Clean the completed walls with a detergent masonry cleaner strictly following the manufacturer's instructions including thorough rinsing. For standard exposed concrete masonry walls, use "Sure Klean" custom masonry cleaner or Architect's approved equal. Follow manufacturer's instructions for application.
 - H. Cut cotton cords off 3/4" away from face of masonry.
 - I. No acid or acid based solutions shall be used in the cleaning of the finished concrete masonry units. Use only commercially prepared detergent cleaning agent applied in accordance with the manufacturer's instructions and approved by the brick manufacturer for use on his products. Before applying any cleaning agent to an entire wall, apply agent to a sample wall area in a location approved by the Architect.
14. PROTECTION
- A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

END OF SECTION 04.2000

Architectural Wood Casework

SECTION 06.4100 - ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Countertops.
 - B. Hardware.
 - C. Factory finishing.
 - D. Preparation for installing utilities.
2. REFERENCE STANDARDS
 - A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014.
 - B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards, U.S. Version 3.0; 2016.
3. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
 1. Scale of Drawings: 1-1/2 inch to 1 foot (125 mm to 1 m), minimum.
 2. Provide the information required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
 - C. Product Data: Provide data for hardware accessories.
 - D. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches (300 mm) square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.
4. QUALITY ASSURANCE
 - A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
5. DELIVERY, STORAGE, AND HANDLING
 - A. Protect units from moisture damage.
6. FIELD CONDITIONS
 - A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

1. CABINETS
 - A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
 - B. Plastic Laminate Faced Cabinets: Custom grade.
2. LAMINATE MATERIALS
 - A. Manufacturers:
 1. Formica Corporation; ____: www.formica.com/#sle.
 2. Wilsonart LLC; ____: www.wilsonart.com/#sle.
 3. Substitutions: See Section 01.6000 - Product Requirements.
3. ACCESSORIES
 - A. Adhesive: Type recommended by fabricator to suit application.
 - B. Fasteners: Size and type to suit application.
 - C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
 - D. Concealed Joint Fasteners: Threaded steel.
4. FABRICATION
 - A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.

- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs. (Locate counter butt joints minimum 600 mm from sink cut-outs.)

PART 3 EXECUTION

1. EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

2. INSTALLATION

- A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- B. Use fixture attachments in concealed locations for wall mounted components.
- C. Use concealed joint fasteners to align and secure adjoining cabinet units.
- D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch (0.79 mm). Do not use additional overlay trim for this purpose.
- E. Secure cabinets to floor using appropriate angles and anchorages.

3. ADJUSTING

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

4. CLEANING

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION 06.4100

Metal Wall Panels

SECTION 07.4213 - METAL WALL PANELS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Metal wall panel system.
2. RELATED REQUIREMENTS
 - A. Section 05.4000 - Cold-Formed Metal Framing: Wall panel substrate.
 - B. Section 06.1000 - Rough Carpentry: Wall panel substrate.
 - C. Section 07.2500 - Weather Barriers: Weather barrier under wall panels.
 - D. Section 07.2700 - Air Barriers: Air barrier under wall panels.
 - E. Section 07.9200 - Joint Sealants: Sealing joints between metal wall panel system and adjacent construction.
 - F. Section 09.2116 - Gypsum Board Assemblies: Wall panel substrate.
3. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements for submittal procedures.
 - B. Product Data - Wall System: Manufacturer's data sheets on each product used, including:
 1. Physical characteristics of components shown on shop drawings.
 2. Storage and handling requirements and recommendations.
 3. Installation instructions and recommendations.
 - C. Samples: Submit two samples of wall panel, 12 by 12 inches (305 by 305 mm) in size illustrating finish color, sheen, and texture.
 - D. Manufacturer's instructions.
 - E. Executed warranty.
4. DELIVERY, STORAGE, AND HANDLING
 - A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.
 - B. Store prefinished material off the ground and protect it from weather; prevent twisting, bending, or abrasion; provide ventilation; slope metal sheets to ensure proper drainage.
 - C. Prevent contact with materials that cause discoloration or staining of products.
5. FIELD CONDITIONS
 - A. Do not install wall panels when air temperature or relative humidity is outside manufacturer's limits.
6. WARRANTY
 - A. See Section 01.7800 - Closeout Submittals for additional warranty requirements.
 - B. Finish Warranty: Provide 40-year manufacturer warranty on film integrity, and 30-year manufacturer warranty against fading and chalking of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS

1. MANUFACTURERS
 - A. Metal Wall Panels - Concealed Fasteners:
 1. Centria, a Nucor Company; CS-260 Panel: www.centria.com
 2. Substitutions: See Section 01.6000 - Product Requirements.
2. METAL WALL PANEL SYSTEM
 - A. Wall Panel System: Factory-fabricated prefinished metal panel system; FW-12 Panel, site assembled.
 - B. Wall Panel System: Concept Series CS-260 Horizontal Concealed Fastener Panel system.
 1. Color: to be selected by Architect from manufacturer's full range of standard colors.
 2. Size components to support assembly dead loads and withstand live loads caused by positive and negative wind pressure acting normally to plane of wall.
 3. Design Pressure: In accordance with applicable codes.
 4. Maximum Allowable Deflection of Panel: L/180 for length (L) of span.

- 5. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement between system and perimeter components when subject to seasonal temperature cycling, dynamic loading and release of loads, and deflection of structural support framing.
- 6. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
- 7. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
- C. Internal and External Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; shop-cut to required angles.
- D. Expansion Joints: Same material, thickness, and finish as exterior sheets; ____ gauge, ____ inch (____ mm) thick; manufacturer's standard brake-formed type, of profile to suit system.
- E. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
- F. Anchors: Galvanized steel.
- 3. ACCESSORIES
 - A. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane, compatible with PVDF paint system.
 - B. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, stainless steel.
 - 1. Metal-to-Metal Fasteners: Self-drilling, self-tapping screws, coated and corrosion-resistant.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Verify building framing members ready to receive panels.
 - B. Air Barrier:
 - 1. Verify installation over wall panel substrate; see Section 05.4000.
- 2. INSTALLATION
 - A. Install panels on walls and soffits in accordance with manufacturer's instructions.
- 3. CLEANING
 - A. Remove site cuttings from finish surfaces.
 - B. Remove protective material from wall panel surfaces.
 - C. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.
- 4. PROTECTION
 - A. Protect metal wall panels until completion of project.
 - B. Touch up, repair, or replace damaged wall panels or accessories before Date of Substantial Completion.

END OF SECTION 07.4213

Thermoplastic-Polyolefin (TPO) Membrane Roofing - Johns Manville

SECTION 07.5423 - THERMOPLASTIC-POLYOLEFIN (TPO) MEMBRANE ROOFING - JOHNS MANVILLE

PART 2 PRODUCTS

1. MANUFACTURERS
 - A. Johns Manville; JM TPO Fleece Backed Roofing Membrane: www.jm.com/#sle.
2. MEMBRANE ROOFING
 - A. Roof Assembly Performance Requirements:
 1. Solar Reflectance: Minimum 95 initial reflectance and minimum 85 reflectance after 3 years; calculated in accordance with ASTM E1980.
 - a. Use field-applied coating to achieve specified SRI.
 - B. Membrane: Thermoplastic polyolefin (TPO); comply with ASTM D6878/D6878M; sheet contains reinforcing fabrics or scrims.
 1. Thickness: 45 mils, 0.045 inch (1.1 mm), minimum.
 2. Width: Factory fabricated into widest possible sheets.
 3. Installation: Adhered with adhesive.
 - C. Seaming Materials: As recommended by membrane manufacturer.

END OF SECTION 07.5423

Sheet Metal Flashing and Trim

SECTION 07.6200 - SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Fabricated sheet metal items, including sill flashings, base flashings and counterflashings.
 - B. Coatings and Sealants as required sheet metal fabrications.
 - C. Reglets, termination bars and accessories.
 - D. Miscellaneous sheet metal accessories.
2. RELATED REQUIREMENTS
 - A. Section 07.4213 Metal Wall Panels
 - B. Section 07.9200 - Joint Sealants: Sealing non-lap joints between sheet metal fabrications and adjacent construction.
3. REFERENCE STANDARDS
 - A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels; 2013.
 - B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
 - C. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.
 - D. CDA A4050 - Copper in Architecture - Handbook; current edition.
 - E. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.
5. QUALITY ASSURANCE
 - A. Perform work in accordance with SMACNA (ASMM) and CDA A4050 requirements and standard details, except as otherwise indicated.
 - B. Fabricator and Installer Qualifications: Company specializing in sheet metal work with 5 years of documented experience.
6. DELIVERY, STORAGE, AND HANDLING
 - A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
 - B. Store materials in a dry, protective, well-vented area. The contractor shall report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill.
 - C. Prevent contact with materials that could cause discoloration or staining.
 - D. Remove protective plastic surface film immediately after installation (if applicable).

PART 2 PRODUCTS

1. SHEET MATERIALS
 - A. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 22 gauge ____ inch (____ mm) thick base metal, shop pre-coated with PVDF coating.
 1. PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic Finish, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system.
 2. Color: As selected by Architect from manufacturer's standard colors.
 - B. Stainless Steel: ASTM A666/A666M, Type 304, soft temper, 24 gauge ____ inch (____ mm) thick; smooth No. 4 finish.

2. ACCESSORIES

- A. Sealant Tape: Pressure sensitive, 100 percent solids. gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, non sag, non toxic, non staining tape 1/2 inch wide and 1/8 inch thick.
- B. Sealant to be Concealed in Completed Work: Non-curing butyl sealant. ASTM C1311

3. FABRICATION

- A. General: Custom fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's Architectural Sheet Metal Manual that apply to design, dimensions, geometry, metal thickness and other characteristics of item indicated.
 - 1. Obtain field measurements fo accurate fit before shop fabrication.
 - 2. Form sheet metal flashing ant trim without excessive oil canning, buckling, and tool marks. Form true to level and line and levels indicated,with exposed edges folded back to form hems.
 - 3. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces exposed to view.
- B. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- C. Form pieces in longest possible lengths.
- D. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.
- E. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- F. Fabricate corners from one piece with minimum 18 inch (450 mm) long legs; seam for rigidity, seal with sealant.
- G. Expansion Provisions: Wher lapped expansion provisions cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.
- H. Fabricate Cleats and attachment devices from same material as accessory being anchored or from compatible, non corrosive material.

4. SHEET METAL FABRICATIONS

- A. Base Flashing: Pre finished galvanized steel: 20 gauge thick
- B. Counterflashing and Flashing Receivers: Prefinished galvanized steel: 22 gauge thick
- C. Sill flashings: Stainless Steel: 24 gauge thick
- D. Miscellaneous Flashing: Stainless Steel: 24 gauge thick

PART 3 EXECUTION

1. EXAMINATION

- A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and nailing strips located.
- B. Verify roofing termination and base flashings are in place, sealed, and secure.

2. PREPARATION

- A. Install starter and edge strips, and cleats before starting installation.
- B. Back paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil (0.4 mm).

3. INSTALLATION

- A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted..
- B. Apply plastic cement compound between metal flashings and felt flashings.
- C. Fit flashings tight in place; make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- D. Seal metal joints watertight.
- E. Secure gutters and downspouts in place with concealed fasteners.
- F. Slope gutters 1/4 inch per 10 feet (2.1 mm per m), minimum.
- G. Connect downspouts to downspout boots, and grout connection watertight.

4. FIELD QUALITY CONTROL

- A. See Section 01.4000 - Quality Requirements, for field inspection requirements.

SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"

Sheet Metal Flashing and Trim

B. Inspection will involve surveillance of work during installation to ascertain compliance with specified requirements.

END OF SECTION 07.6200

Hollow Metal Doors and Frames

SECTION 08.1113 - HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Non-fire-rated hollow metal doors and frames.
 - B. Hollow metal frames for wood doors.
 - C. Fire-rated hollow metal doors and frames.
 - D. Thermally insulated hollow metal doors with frames.
 - E. Accessories, including glazing, louvers, and matching panels.
2. RELATED REQUIREMENTS
 - A. Section 08.7100 - Door Hardware.
 - B. Section 09.9113 - Exterior Painting: Field painting.
 - C. Section 09.9123 - Interior Painting: Field painting.
3. REFERENCE STANDARDS
 - A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
 - B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors; 2011.
 - C. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2014.
 - D. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2011.
 - E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
 - F. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable; 2015.
 - G. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2014.
 - H. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames; 2014.
 - I. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2009.
 - J. ITS (DIR) - Directory of Listed Products; current edition.
 - K. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames; 2002.
 - L. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames; 2011.
 - M. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; 2006.
 - N. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2016.
 - O. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2012.
 - P. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames; 2013.
 - Q. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.
 - R. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes.
 - C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and any indicated finish requirements.
 - D. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.

5. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years documented experience.
 - 1. Provide hollow metal frames from SDI Certified manufacturer.
- B. Templates: The metal door and frame manufacture shall obtain templates of all applicable hardware from the finish hardware supplier under the coordination of the Contractor and shall make all associated and proper provisions for the installation of hardware.
- C. Maintain at project site copies of reference standards relating to installation of products specified.

PART 2 PRODUCTS

1. MANUFACTURERS

- A. Hollow Metal Doors and Frames:
 - 1. Ceco Door, an Assa Abloy Group company; ____: www.assaabloydss.com/#sle.
 - 2. Curries, an Assa Abloy Group company: www.assaabloydss.com.
 - 3. Steelcraft, an Allegion brand: www.allegion.com/sle.
 - 4. Substitutions: See Section 01.6000 - Product Requirements.

2. PERFORMANCE REQUIREMENTS

- A. Requirements for Hollow Metal Doors and Frames:
 - 1. Steel Sheet: Comply with one or more of the following requirements; galvanized steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
 - 2. Accessibility: Comply with ICC A117.1 and ADA Standards.
 - 3. Exterior Door Top Closures: Flush end closure channel, with top and door faces aligned.
 - 4. Door Edge Profile: Manufacturers standard for application indicated.
 - 5. Typical Door Face Sheets: Flush.
 - 6. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Manufacturers standard.
 - 7. Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or BHMA A156.115 and ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
 - 8. Zinc Coating for Typical Interior and/or Exterior Locations: Provide metal components zinc-coated (galvanized) and/or zinc-iron alloy-coated (galvanized) by the hot-dip process in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness, unless noted otherwise for specific hollow metal doors and frames.
 - a. Based on SDI Standards: Provide at least A40/ZF120 (galvanized) when necessary, coating not required for typical interior door applications, and at least A60/ZF180 (galvanized) for corrosive locations.
- B. Hollow Metal Panels: Same construction, performance, and finish as doors.
- C. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

3. HOLLOW METAL DOORS

- A. Door Finish: Factory primed and field finished.
- B. Exterior Doors: Thermally insulated.
 - 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - a. Level .
 - b. Physical Performance ; in accordance with ANSI/SDI A250.4.
 - c. Model 2 - Seamless.
 - d. Door Face Metal Thickness: 16 gage, 0.053 inch (1.3 mm), minimum.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Hollow Metal Doors and Frames

- e. Zinc Coating: A60/ZF180 galvanized coating; ASTM A653/A653M.
 - 2. Core Material:
 - 3. Door Thermal Resistance:
 - 4. Door Thickness: 1-3/4 inch (44.5 mm), nominal.
 - 5. Top Closures for Outswinging Doors: Flush with top of faces and edges.
 - 6. Door Face Sheets: Flush.
 - 7. Weatherstripping: Refer to Section 08.7100.
 - C. Interior Doors, Non-Fire Rated:
 - 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - a. Level 2 - Heavy-duty.
 - b. Physical Performance Level B 500 000 cycles; in accordance with ANSI/SDI A250.4.
 - c. Model 1 - Full Flush.
 - d. Door Face Metal Thickness: 18 gage, 0.042 inch (1.0 mm), minimum.
 - e. Zinc Coating: A60/ZF180 galvanized coating; ASTM A653/A653M.
 - 2. Core Material: Kraftpaper honeycomb.
 - 3. Door Thickness: 1-3/4 inch (44.5 mm), nominal.
 - D. Fire-Rated Doors:
 - 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - a. Level 2 - Heavy-duty.
 - b. Physical Performance Level B 500 000 cycles; in accordance with ANSI/SDI A250.4.
 - c. Model 1 - Full Flush.
 - d. Door Face Metal Thickness: 18 gage, 0.042 inch (1.0 mm), minimum.
 - 2. Fire Rating: As indicated on Door Schedule, tested in accordance with UL 10C and NFPA 252 ("positive pressure fire tests").
 - a. Provide units listed and labeled by UL (DIR) or ITS (DIR).
 - b. Attach fire rating label to each fire rated unit.
 - 3. Door Core Material: Manufacturers standard core material/construction in compliance with requirements.
 - 4. Door Thickness: 1-3/4 inch (44.5 mm), nominal.
4. HOLLOW METAL FRAMES
- A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.
 - B. Frame Finish: Factory primed and field finished.
 - C. Exterior Door Frames: Full profile/continuously welded type.
 - 1. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvanized) in accordance with ASTM A653/A653M, with A60/ZF180 coating.
 - 2. Frame Metal Thickness: 16 gage, 0.053 inch (1.3 mm), minimum.
 - 3. Weatherstripping: Separate, see Section 08.7100.
 - D. Interior Door Frames, Non-Fire Rated: Face welded type.
 - 1. Frame Metal Thickness: 18 gage, 0.042 inch (1.0 mm), minimum.
 - E. Door Frames, Fire-Rated: Face welded type.
 - 1. Fire Rating: Same as door, labeled.
 - 2. Frame Metal Thickness: 16 gage, 0.053 inch (1.3 mm), minimum.
 - F. Transom Bars: Fixed, of profile same as jamb and head unless otherwise shown in drawings.
 - G. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.
 - H. Frames in Masonry Walls: Size to suit masonry coursing with head member to fill opening without cutting masonry units.
 - I. Anchors: Provide a minimum of three (3) metal anchors at each jamb for frames up to 7'-4" in height and a minimum of five (5) metal anchors for all taller frames.
 - 1. Provide "T" types anchors at masonry walls.

- 2. Provide manufacturers recommended anchors at stud framing.
- J. Hardware Reinforcing: Weld to inner surface of jambs and provide cover boxes behind all hardware cut outs:
 - 1. High reinforcements to be per referenced standards but no less than 8 gauge min.
 - 2. Balance of reinforcement to be per referenced standards but no less than 12 gauge min.
- K. Frames Wider than 24 Inches (609 mm): Reinforce with steel channel fitted tightly into frame head, flush with top.
- L. Frames Installed Back-to-Back: Reinforce with steel channels anchored to floor and overhead structure.
- 5. FINISHES
 - A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.
- 6. ACCESSORIES
 - A. Louvers: Roll formed steel with overlapping frame; finish same as door components ; factory-installed.
 - 1. In Fire-Rated Doors: UL (DIR) or ITS (DIR) listed fusible link louver, same rating as door.
 - 2. Style: _____.
 - 3. Fasteners: Exposed, tamper proof fasteners.
 - B. Glazing: As specified in Section 08.8000.
 - C. Removable Stops: Formed sheet steel, shape as indicated on drawings, butted corners; prepared for countersink style tamper proof screws.
 - D. Grout for Frames: Portland cement grout with maximum 4 inch (102 mm) slump for hand troweling; thinner pumpable grout is prohibited.
 - E. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.
 - F. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Verify existing conditions before starting work.
 - B. Verify that opening sizes and tolerances are acceptable.
 - C. Verify that finished walls are in plane to ensure proper door alignment.
- 2. PREPARATION
 - A. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation.
- 3. INSTALLATION
 - A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.
 - B. Install fire rated units in accordance with NFPA 80.
 - C. Coordinate frame anchor placement with wall construction.
 - D. Grout frames in masonry construction, using hand trowel methods; brace frames so that pressure of grout before setting will not deform frames.
 - E. Install door hardware as specified in Section 08.7100.
 - F. Comply with glazing installation requirements of Section 08.8000.
 - G. Coordinate installation of electrical connections to electrical hardware items if provided.
 - H. Touch up damaged factory finishes.
- 4. TOLERANCES
 - A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated in accordance with SDI 117 or NAAMM HMMA 861.
 - B. Maximum Diagonal Distortion: 1/16 inch (1.6 mm) measured with straight edge, corner to corner.
- 5. ADJUSTING
 - A. Adjust for smooth and balanced door movement.
- 6. SCHEDULE - **SEE DRAWINGS**

END OF SECTION 08.1113

Aluminum-Framed Storefronts

SECTION 08.4313 - ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Aluminum-framed storefront, with vision glass.
 - B. Infill panels of metal and glass.
 - C. Aluminum doors and frames.
 - D. Weatherstripping.
 - E. Door hardware.
2. RELATED REQUIREMENTS
 - A. Section 08.4229 - Automatic Entrances.
 - B. Section 08.4413 - Glazed Aluminum Curtain Walls.
 - C. Section 08.7100 - Door Hardware: Hardware items other than specified in this section.
 - D. Section 08.8000 - Glazing: Glass and glazing accessories.
3. REFERENCE STANDARDS
 - A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2012.
 - B. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels; 2013.
 - C. AAMA CW-10 - Care and Handling of Architectural Aluminum From Shop to Site; 2015.
 - D. ASCE 7 - Minimum Design Loads for Buildings and Other Structures; 2010, with 2013 Supplements and Errata.
 - E. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2014.
 - F. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2015.
 - G. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.
 - H. ASTM B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate [Metric]; 2014.
 - I. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
 - J. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes [Metric]; 2013.
 - K. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2004 (Reapproved 2012).
 - L. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014.
 - M. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2009).
 - N. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); 2002 (Ed. 2004).
4. ADMINISTRATIVE REQUIREMENTS
 - A. Coordinate with installation of other components that comprise the exterior enclosure.
 - B. Preinstallation Meeting: Conduct a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.
5. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, internal drainage details and any other items listed in this section or required for a complete installation.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Aluminum-Framed Storefronts

- C. Shop Drawings: Provide plans, elevations, sections, details and attachments to other work. Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion and contraction joint location and details, drainage requirements and field welding required.
 - D. Samples: Submit two samples 12 by 12 inches (305 by 305 mm) in size illustrating finished aluminum surface, glass, infill panels, glazing materials.
 - E. Manufacturer's Certificate: Certify that the products supplied meet or exceed the specified requirements.
 - F. Design Data: Provide framing member structural and physical characteristics, engineering calculations, and dimensional limitations.
 - G. Hardware Schedule: Complete itemization of each item of hardware to be provided for each door, cross-referenced to door identification numbers in Contract Documents.
 - H. Installer's Qualification Statement.
 - I. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.
6. QUALITY ASSURANCE
- A. Source Control: Provide all items from a single manufacturer.
 - B. Designer Qualifications: Design structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in the State in which the Project is located.
 - C. Manufacturer Qualifications: Company specializing in performing work of type specified and with at least ten years of documented experience.
 - D. Installer Qualifications: Company specializing in performing work of type specified and with at least five years of documented experience.
7. DELIVERY, STORAGE, AND HANDLING
- A. Handle products of this section in accordance with AAMA CW-10.
 - B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.
 - C. Place products on a minimum 4 inch wood blocking and cover.
 - D. Do not use non-vented plastic or canvas that could create a humidity chamber.
8. FIELD CONDITIONS
- A. Verify actual locations of structural supports and field measurements prior to fabrication.
 - B. Do not install sealants when ambient temperature is less than 40 degrees F (5 degrees C). Maintain this minimum temperature during and 48 hours after installation.
9. WARRANTY
- A. See Section 01.7800 - Closeout Submittals, for additional warranty requirements.
 - B. Correct defective Work within a two year period after Date of Substantial Completion. Warranty to be backed by the manufacturer for the repair or replacement of components of aluminum-framed systems that do not comply with requirements of that t fail in materials or workmanship within specified warranty period. Failures included, but are not limited to the following:
 - 1. Structural failures.
 - 2. Excessive deflection.
 - 3. Noise or vibrations caused by thermal movement.
 - 4. Deterioration of metals and other materials.
 - 5. Adhesive or cohesive sealant failures.
 - 6. Water leakage through fixed glazing and framing.
 - 7. Failure of operating components.
 - C. Provide 20 year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 PRODUCTS

1. BASIS OF DESIGN -- FRAMING FOR INSULATING GLAZING
 - A. Center-Set Style, Thermally-Broken:
 1. Basis of Design: Kawneer, an Arconic Company; Trifab Series 451T: www.kawneer.com.
 2. Vertical Mullion Dimensions: 2 inches wide by 4-1/2 inches deep (51 mm wide by 114 mm deep).
 - B. Other Manufacturers: Provide either the product identified as "Basis of Design" or an equivalent product of one of the manufacturers listed below:
 1. EFCO, a Pella Company: www.efcocorp.com/sle.
 2. YKK AP America Inc: www.ykkap.com.
 - C. Substitutions: See Section 01.6000 - Product Requirements.
 1. For any product not identified as "Basis of Design", submit information as specified for substitutions.
2. BASIS OF DESIGN -- SWINGING DOORS
 - A. Narrow Stile, Insulating Glazing, Thermally-Broken:
 1. Basis of Design: Kawneer, an Arconic Company; 190 Narrow Stile Entrance.
 2. Thickness: 1-3/4 inches (43 mm).
 3. Stiles and Rails: 2-1/8 inches (54 mm) Stiles, 2-1/4 inches (57 mm) Top Rail, 3-7/8 inches (98 mm) Bottom Rail.
 - B. Medium Stile, Insulating Glazing, Thermally-Broken:
 1. Basis of Design: Kawneer, an Arconic Company; 350 Medium Stile Entrance.
 2. Thickness: 1-3/4 inches (43 mm).
 3. Stiles and Rails: 3-1/2 inches (89 mm) Stiles and Top Rail, 6-1/2 inches (165 mm) Bottom Rail.
 - C. Wide Stile, Insulating Glazing, Thermally-Broken:
 1. Basis of Design: Kawneer, an Arconic Company; 500 Wide Stile Entrance.
 2. Thickness: 1-3/4 inches (43 mm).
 3. Stiles and Rails: 5 inches (127 mm) Stiles and Top Rail, 6-1/2 inches (165 mm) Bottom Rail.
 - D. Other Manufacturers: Provide either the product identified as "Basis of Design" or an equivalent product of one of the manufacturers listed below:
 1. EFCO, a Pella Company: www.efcocorp.com/sle.
 2. YKK AP America Inc: www.ykkap.com.
 - E. Substitutions: See Section 01.6000 - Product Requirements.
 1. For any product not identified as "Basis of Design", submit information as specified for substitutions.
3. ALUMINUM-FRAMED STOREFRONT
 - A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
 1. Finish: Class I natural anodized.
 - a. Factory finish all surfaces that will be exposed in completed assemblies.
 - b. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.
 - c. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
 2. Finish Color: As selected by Architect from manufacturer's standard line.
 3. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
 4. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
 5. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Aluminum-Framed Storefronts

6. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F (95 degrees C) over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.
7. Movement: Allow for movement between storefront and adjacent construction, without damage to components or deterioration of seals.
8. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.
- B. Performance Requirements:
 1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 1.5 times the design wind loads and 10 second duration of maximum load.
 - a. Design Wind Loads: Comply with requirements of ASCE 7.
 - b. Positive Design Wind Load: 20 lbf/sq ft (958 Pa).
 - c. Negative Design Wind Load: 20 lbf/sq ft (958 Pa).
 - d. Member Deflection: Limit member deflection to 1/175 in any direction, with full recovery of glazing materials.
 2. Water Penetration Resistance on Manufactured Assembly: No uncontrolled water on interior face, when tested in accordance with ASTM E331 at pressure differential of 8 psf (390 Pa).
 3. Air Leakage Laboratory Test: Maximum of 0.06 cu ft/min sq ft (0.3 L/sec sq m) of wall area, when tested in accordance with ASTM E283 at 6.27 psf (300 Pa) pressure differential across assembly.
4. COMPONENTS
 - A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
 1. Framing members for interior applications need not be thermally broken.
 2. Glazing Stops: Flush.
 3. Structurally Reinforced Members (where required to achieve vertical spans only): Extruded aluminum with internal reinforcement of structural steel member.
 - B. Glazing: As specified in Section 08.8000.
 - C. Infill Panels: Insulated, aluminum sheet face and back, with edges formed to fit glazing channel and sealed.
 1. Core: Glass fiber insulation core with R-value of ____ (RSI-value of ____).
 2. Finish: Same as storefront.
 - D. Swing Doors: Glazed aluminum.
 1. Thickness: 1-3/4 inches (43 mm).
 2. Stiles and Rails: As specified above.
 3. Glazing Stops: Square.
 4. Finish: Same as storefront.
 - E. Operable Sash: Aluminum project-out awning; finished to match storefront; turn handle latch with manufacturer's standard insect screen.
5. MATERIALS
 - A. Extruded Aluminum: ASTM B221 (ASTM B221M).
 - B. Sheet Aluminum: ASTM B209 (ASTM B209M).
 - C. Structural Steel Sections: ASTM A36/A36M; galvanized in accordance with requirements of ASTM A123/A123M.
 - D. Structural Supporting Anchors Attached to Structural Steel: Design for bolted attachment.
 - E. Structural Supporting Anchors Attached to Reinforced Concrete Members: Design for welded attachment to weld plates embedded in concrete.
 - F. Fasteners: Galvanized steel.
 - G. Exposed Flashings: Aluminum sheet, 20 gage, 0.032 inch (0.81 mm) minimum thickness; finish to match framing members.
 - H. Sealant for Setting Thresholds: Non-curing butyl type.

- I. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.
 - J. Glazing Accessories: As specified in Section 08.8000.
 - K. Touch-Up Primer for Galvanized Steel Surfaces: SSPC-Paint 20, zinc rich.
6. FINISHES
- A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils (0.018 mm) thick.
 - B. Class I Color Anodized Finish: AAMA 611 AA-M12C22A42 Integrally colored anodic coating not less than 0.7 mils (0.018 mm) thick.
 - C. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.
 - D. Color: As selected by Architect from manufacturer's standard range.
 - E. Touch-Up Materials: As recommended by coating manufacturer for field application.
7. HARDWARE
- A. For each door, include weatherstripping, sill sweep strip, and threshold.
 - B. Weatherstripping: tubular shaped thermoplastic elastomer pile with semi-regid polymeric backing, continuous and replaceable; provide on all doors.
 - C. Sill Sweep Strips: Resilient seal type, Gasket Sweep Strip of EPDM in aluminum extrusion applied to interior exposed surface on bottom rail with concealed fasteners; provide on all doors.
 - D. Threshold: Extruded aluminum with anodized finish, one piece per door opening, ribbed surface, ADA compliant; provide on all doors.
 - E. Pivots: Offset type; top, intermediate, and bottom. Finish to be No. 40 Bronze.
 - F. Push/Pull Set: Standard configuration push/pull handles.
 - G. Exit Devices: Panic type, Paneline concealed rod exit device with Panic Guard.
 - H. Door Closers: Exposed overhead.
 - I. Locks: keyed cylinder inside; keyed cylinder outside.
 - 1. Provide on doors as indicated.
 - J. Automatic Door Operators and Actuators: As specified in Section 08.4229.

PART 3 EXECUTION

1. EXAMINATION
- A. Verify dimensions, tolerances, and method of attachment with other work.
 - B. Verify that wall openings and adjoining air and vapor seal materials are ready to receive work of this section.
2. INSTALLATION
- A. Install wall system in accordance with manufacturer's instructions.
 - B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
 - C. Provide alignment attachments and shims to permanently fasten system to building structure.
 - D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.
 - E. Provide thermal isolation where components penetrate or disrupt building insulation.
 - F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.
 - G. Where fasteners penetrate sill flashings, make watertight by seating and sealing fastener heads to sill flashing.
 - H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
 - I. Install operating sash.
 - J. Set thresholds in bed of sealant and secure.
 - K. Install hardware using templates provided.
 - 1. See Section 08.7100 for hardware installation requirements.
 - 2. See Section 08.4229 for operator and actuator installation requirements.
 - L. Install glass and infill panels in accordance with Section 08.8000, using glazing method required to achieve performance criteria.
 - M. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3. TOLERANCES

- A. Maximum Variation from Plumb: 0.06 inch per 3 feet (1.5 mm per m) non-cumulative or 0.06 inch per 10 feet (1.5 mm per 3 m), whichever is less.
- B. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch (0.8 mm).

4. ADJUSTING

- A. Adjust operating hardware and sash for smooth operation.

5. CLEANING

- A. Remove protective material from pre-finished aluminum surfaces.
- B. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths, and take care to remove dirt from corners and to wipe surfaces clean.

6. PROTECTION

- A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION 08.4313

Door Hardware

SECTION 08.7100 - DOOR HARDWARE

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Hardware for hollow metal doors.
 - B. Lock cylinders for doors that hardware is specified in other sections.
 - C. Thresholds.
 - D. Weatherstripping, seals and door gaskets.
2. RELATED REQUIREMENTS
 - A. Section .
3. PRICE AND PAYMENT PROCEDURES
 - A. See Section , for allowances affecting this section.
4. REFERENCE STANDARDS
 - A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
 - B. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2009.
 - C. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2016.
 - D. NFPA 101 - Life Safety Code; 2015.
5. ADMINISTRATIVE REQUIREMENTS
 - A. Coordinate the manufacture, fabrication, and installation of products that door hardware will be installed upon.
 - B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
 - C. Convey Owner's keying requirements to manufacturers.
 - D. Preinstallation Meeting: Convene a preinstallation meeting week prior to commencing work of this section; require attendance by all affected installers.
 - E. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.
6. SUBMITTALS
 - A. See Section , for submittal procedures.
 - B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project.
 - C. Hardware Schedule: Detailed listing of each item of hardware to be installed on each door. Use door numbering scheme as included in the Contract Documents. Identify electrically operated items and include power requirements.
 - D. Keying Schedule: Submit for approval of Owner.
 - E. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention.
 - F. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
 - G. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier.
 - H. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
 - I. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
7. QUALITY ASSURANCE
 - A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum years of experience.
 - B. Hardware Supplier Qualifications: Company specializing in supplying the type of products specified in this section with at least years experience.
 - C. Hardware Supplier Personnel: Employ to assist in the work of this section.

8. DELIVERY, STORAGE, AND HANDLING
 - A. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.
9. WARRANTY
 - A. See Section , for additional warranty requirements.
 - B. Provide year warranty for .

PART 2 PRODUCTS

1. MANUFACTURERS
 - A. Allegion Brands, : www.allegion.com/us.
 - B. Assa Abloy Brands, : www.assaabloydss.com.
 - C. Best Access Systems, division of Stanley Security Solutions: www.bestaccess.com.
 - D. C. R. Laurence Company, Inc: www.crl-arch.com/sle.
 - E. DORMA USA, Inc: www.dorma.com.
 - F. Hager Companies: www.hagerco.com.
 - G. Hiawatha, Inc, division of Activar Construction Products Group, Inc: www.activarcpkg.com/hiawatha.
 - H. Trimco Hardware: www.trimcohardware.com.
2. GENERAL REQUIREMENTS
 - A. Provide door hardware specified, or as required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.
 - B. Provide items of a single type of the same model by the same manufacturer.
 - C. Provide products that comply with the following:
 1. Applicable provisions of .
 2. Accessibility: ADA Standards and ICC A117.1.
 3. Applicable provisions of NFPA 101, Life Safety Code.
 4. Fire-Rated Doors: NFPA 80.
 5. Hardware on Fire-Rated Doors: Listed and classified by as suitable for the purpose specified and indicated.
 6. Hardware for Smoke and Draft Control Doors: Provide hardware that enables door assembly to comply with air leakage requirements of the applicable code.
 7. Products Requiring Electrical Connection: Listed and classified by as suitable for the purpose specified and indicated.
3. LOCKS AND LATCHES
 - A. Locks: Provide a lock for every door, unless specifically indicated as not requiring locking.
 1. If no hardware set is indicated for a swinging door provide an office lockset.
 2. Trim: Provide lever handle or pull trim on outside of all locks unless specifically stated to have no outside trim.
 3. Lock Cylinders: Provide key access on outside of all locks unless specifically stated to have no locking or no outside trim.
 4. In door sections, where a lock cylinder referenced to this Section is specified, furnish and install a mortise lock cylinder keyed to the building keying system.
 - B. Electrically Operated Locks: Fail secure unless otherwise indicated.
 - C. Lock Cylinders: Manufacturer's standard tumbler type, core.
 1. Provide cams and/or tailpieces as required for locking devices required.
 - D. Keying:
 - E. Latches: Provide a latch for every door that is not required to lock, unless specifically indicated "push/pull" or "not required to latch".
 1. Provide five-knuckle full mortise butt hinges unless otherwise indicated.
 2. Provide ball-bearing hinges at .
 3. Provide hinges in the quantities indicated.
 4. Provide non-removable pins on outswinging doors.

5. Where electrified hardware is mounted in door leaf, provide power transfer hinges.

PART 3 EXECUTION

1. EXAMINATION
 - A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as .
2. INSTALLATION
 - A. Install hardware in accordance with manufacturer's instructions and applicable codes.
 - B. Use templates provided by hardware item manufacturer.
 - C. Do not install surface mounted items until finishes applied to substrate are complete.
 - D. Install hardware on fire-rated doors and frames in accordance with .
 - E. Mounting heights for hardware from finished floor to center line of hardware item.
3. FIELD QUALITY CONTROL
 - A. Provide an Architectural Hardware Consultant to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions.
4. ADJUSTING
 - A. Adjust hardware for smooth operation.
 - B. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.
5. CLEANING
 - A. Clean adjacent surfaces soiled by hardware installation. Clean finished hardware per manufacturer's instructions after final adjustments has been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.
6. PROTECTION
 - A. Protect finished Work under provisions of Section .
 - B. Do not permit adjacent work to damage hardware or finish.

END OF SECTION 08.7100

SECTION 08.8000 - GLAZING

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Insulating glass units.
 - B. Glazing units.
 - C. Plastic films.
 - D. Glazing compounds and accessories.
2. RELATED REQUIREMENTS
 - A. Section 08.1113 - Hollow Metal Doors and Frames: Glazed lites in doors and borrowed lites.
 - B. Section 08.4313 - Aluminum-Framed Storefronts: Glazing furnished as part of storefront assembly.
3. REFERENCE STANDARDS
 - A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; current edition.
 - B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings, Safety Performance Specifications and Methods of Test; 2010.
 - C. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2011).
 - D. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2014.
 - E. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2014.
 - F. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2013.
 - G. GANA (GM) - GANA Glazing Manual; 2009.
 - H. GANA (LGRM) - Laminated Glazing Reference Manual; 2009.
 - I. GANA (SM) - GANA Sealant Manual; 2008.
 - J. IGMA TM-3000 - North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use; 1990 (2004).
4. ADMINISTRATIVE REQUIREMENTS
 - A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by each of the affected installers.
 - B. Delivery and Storage: Deliver glazing to site with manufacturer's labels attached to each piece. Do not remove labels until material has been approved in place. Protect stored material per the manufacturer's written instructions and as needed to prevent damage from condensation, temperature changes, direct exposure to sunlight or other causes until ready for installation.
5. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data on Insulating Glass Unit, Glazing Unit, and Plastic Film Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
 - C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
 - D. Samples: Submit two samples 12 by 12 inch (304.8 by 304.8 mm) in size of all glazed units and film types.
 - E. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
6. QUALITY ASSURANCE
 - A. Perform Work in accordance with GANA (GM), GANA (SM), GANA (LGRM), and IGMA TM-3000 for glazing installation methods. Maintain one copy on site.
 - B. Source limitations for Glass: Obtain the following through one source from a single manufacturer for each glass type.
 1. Obtain tinted glass and reflective coated glass from single source from single manufacturer.

2. Obtain glazing accessories from single source from single manufacturer for each product and installation method.
- C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- D. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.
7. FIELD CONDITIONS
 - A. Do not install glazing when ambient temperature is less than 40 degrees F (4 degrees C).
 - B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.
8. WARRANTY
 - A. See Section 01.7800 - Closeout Submittals, for additional warranty requirements.
 - B. Insulating Glass Units: Provide a ten (10) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including replacement of failed units.

PART 2 PRODUCTS

1. MANUFACTURERS
 - A. Float Glass Manufacturers:
 1. Pilkington North America Inc: www.pilkington.com/na.
 2. PPG Industries, Inc: www.ppgideascales.com.
 3. Oldcastle Building Envelope: www.obe.com.
 4. Substitutions: Refer to Section 01.6000 - Product Requirements.
 - B. Laminated Glass Manufacturers:
 1. AGC Glass Company North America, Inc[<>]: www.us.agc.com.
 2. Guardian Industries Corp: www.sunguardglass.com.
 3. Pilkington North America Inc: www.pilkington.com/na.
 4. PPG Industries, Inc: www.ppgideascales.com.
 5. SCHOTT North America Inc; Amiran: www.us.schott.com.
 6. Viracon, Architectural Glass segment of Apogee Enterprises, Inc: www.viracon.com.
 7. Substitutions: Refer to Section 01.6000 - Product Requirements.
 - C. Plastic Films Manufacturers:
 1. 3M Window Film: www.3m.com.
 2. Saflex (Eastman Chemical Company): www.saflex.com.
 3. Substitutions: Refer to Section 01.6000 - Product Requirements.
2. GLASS MATERIALS
 - A. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
 1. Laminated Safety Glass: Complies with ANSI Z97.1 - Class B or 16 CFR 1201 - Category I impact test requirements.
 - a. Use Material that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
 - b. Construction: Unless otherwise indicated, laminate glass with polyvinyl butyral interlayer or ionomeric polymer interlayer to comply with manufacturer's written instructions.
 - c. Interlayer thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
 2. Windborne-Debris-Impact-Resistant Laminated Glass: Comply with requirements specified above for laminated glass except laminate glass with one of the following to comply with interlayer manufacturer's written instructions:
 - a. Polyvinyl butyral interlayer.
 - b. Ionomeric polymer interlayer.

3. PLASTIC FILMS
 - A. Type 1 - Plastic Film: Mylar type. Vanceva Series by Saflex.
 1. Application: Locations as indicated on drawings.
 2. Tint: Selected from the Manufacturer's full line of colors.
4. ACCESSORIES
 - A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot (25 mm for each square meter) of glazing or minimum 4 inch (100 mm) by width of glazing rabbet space minus 1/16 inch (1.5 mm) by height to suit glazing method and pane weight and area.
 - B. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.
5. SOURCE QUALITY CONTROL
 - A. See Section 01.4000 - Quality Requirements, for additional requirements.
 - B. Provide shop inspection and testing for Type ____ glass.

PART 3 EXECUTION

1. VERIFICATION OF CONDITIONS
 - A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
 - B. Verify that the minimum required face and edge clearances are being provided.
 - C. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
 - D. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.
2. PREPARATION
 - A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
 - B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
 - C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.
3. INSTALLATION, GENERAL
 - A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.
 - B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.
 - C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.
 - D. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, etc.
4. INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)
 - A. Application - Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.
 - B. Place setting blocks at 1/4 points with edge block no more than 6 inch (152 mm) from corners.
 - C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
 - D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.
5. INSTALLATION - PRESSURE GLAZED SYSTEMS
 - A. Application - Exterior Glazed: Set glazing infills from exterior side of building.
 - B. Place setting blocks at 1/4 points with edge block no more than 6 inch (152 mm) from corners.
 - C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
 - D. Install pressure plates without displacing glazing gasket; exert pressure for full continuous contact.
 - E. Install cover plate.
6. INSTALLATION - STRUCTURAL SILICONE GLAZING
 - A. Application - Field Glazed: Follow basic guidelines of structural silicone glazing for glazing application.
 1. Two-Sided Structural: Glass structurally adhered to vertical mullions with horizontal sides captured in glazing pockets.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Glazing

- B. Provide design review of the glazing system and project details, adhesion testing, proper surface preparation, training and a quality service program.
- C. Provide only structural silicone sealant, tested and manufactured for structural glazing.
- 7. **INSTALLATION - PLASTIC FILM**
 - A. Install plastic film with adhesive, applied in accordance with film manufacturer's instructions.
 - B. Place without air bubbles, creases or visible distortion.
 - C. Install film tight to perimeter of glass and carefully trim film with razor sharp knife. Provide 1/16 inch (1.6 mm) to 1/8 inch (3.2 mm) gap at perimeter of glazed panel unless otherwise required. Do not score the glass.
- 8. **FIELD QUALITY CONTROL**
 - A. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.
 - B. Monitor and report installation procedures and unacceptable conditions.
- 9. **CLEANING**
 - A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
 - B. Remove non-permanent labels immediately after glazing installation is complete.
 - C. Clean glass and adjacent surfaces after sealants are fully cured.
 - D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.
- 10. **PROTECTION**
 - A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.
 - B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION 08.8000

Gypsum Board Assemblies

SECTION 09.2116 - GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1. SECTION INCLUDES
 - A. non-structural Metal stud wall framing.
 - B. Metal channel ceiling framing.
 - C. Acoustic insulation.
 - D. Gypsum wallboard.
 - E. Joint treatment and accessories.
2. RELATED REQUIREMENTS
 - A. Section 05.4000 - Cold-Formed Metal Framing: Structural steel stud framing.
 - B. Section 06.1000 - Rough Carpentry: Wood blocking product and execution requirements.
 - C. Section 07.2500 - Weather Barriers: Water-resistive barrier over sheathing.
 - D. Section 07.9200 - Joint Sealants: Sealing acoustical gaps in construction other than gypsum board or plaster work.
3. REFERENCE STANDARDS
 - A. AISI S100-12 - North American Specification for the Design of Cold-Formed Steel Structural Members; American Iron and Steel Institute; 2012.
 - B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
 - C. ASTM C645 - Standard Specification for Nonstructural Steel Framing Members; 2014.
 - D. ASTM C754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2015.
 - E. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2013.
 - F. ASTM C1047 - Standard Specification for Accessories For Gypsum Wallboard and Gypsum Veneer Base; 2014a.
 - G. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2014.
 - H. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2012.
 - I. GA-216 - Application and Finishing of Gypsum Board; 2013.
4. ADMINISTRATIVE REQUIREMENTS
 - A. Deliver all materials in their unopened packages and stored in enclosed shelter providing protection damage and exposure to the elements.
5. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements for submittal procedures.
 - B. Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.
 - C. Product Data: Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.
6. QUALITY ASSURANCE
 - A. Installer Qualifications: Company specializing in performing gypsum board installation and finishing, with minimum 5 years of documented experience.

PART 2 PRODUCTS

1. METAL FRAMING MATERIALS
 - A. Manufacturers - Metal Framing, Connectors, and Accessories:
 1. Clarkwestern Dietrich Building Systems LLC: www.clarkdietrich.com.
 2. Marino: www.marinoware.com.
 3. Substitutions: See Section 01.6000 - Product Requirements.

SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO SPECIFICATIONS ON DRAWING SHEETS R300 - R309"

Gypsum Board Assemblies

- B. Non-structural Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of $L/120$ at 5 psf ($L/120$ at 240 Pa).
 - 1. Studs: "C" shaped with flat or formed webs.
 - 2. Runners: U shaped, sized to match studs.
 - 3. Ceiling Channels: C-shaped.
 - 4. Furring Members: Hat-shaped sections, minimum depth of 7/8 inch (22 mm).
 - 5. Resilient Furring Channels: Single or double leg configuration; 1/2 inch (12 mm) channel depth.
 - C. Loadbearing Studs for Application of Gypsum Board: As specified in Section 05.4000.
 - D. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
 - E. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection using slotted holes, screws, and anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition.
 - 1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100-12.
 - 2. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot-dipped galvanized coating.
 - 3. Provide components UL-listed for use in UL-listed fire-rated head of partition joint systems of fire rating and movement required.
 - 4. Deflection and Firestop Track:
 - a. Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-rating of the wall assembly.
2. BOARD MATERIALS
- A. Manufacturers - Gypsum-Based Board:
 - 1. CertainTeed Corporation: www.certainteed.com.
 - 2. Georgia-Pacific Gypsum: www.gpgypsum.com.
 - 3. National Gypsum Company: www.nationalgypsum.com.
 - 4. USG Corporation: www.usg.com.
 - 5. Substitutions: See Section 01.6000 - Product Requirements.
 - B. Backing Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square cut.
 - 1. Application: Vertical surfaces behind thinset tile, except in wet areas.
 - 2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
 - 3. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
 - 4. Type: Regular and Type X, in locations indicated.
 - 5. Type X Thickness: 5/8 inch (16 mm).
 - 6. Regular Board Thickness: 5/8 inch (16 mm).
 - 7. Edges: Tapered.
3. GYPSUM WALLBOARD ACCESSORIES
- A. Finishing Accessories: ASTM C1047, galvanized steel or rolled zinc, unless noted otherwise.
 - 1. Types: As detailed or required for finished appearance.
 - B. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Verify that project conditions are appropriate for work of this section to commence.
- 2. FRAMING INSTALLATION
 - A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.

- B. Studs: Space studs as scheduled.
 - 1. Extend partition framing to structure where indicated and to ceiling in other locations.
 - 2. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.
 - 3. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
- C. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.
- D. Standard Wall Furring: Install at concrete and masonry walls scheduled to receive gypsum board, not more than 4 inches (100 mm) from floor and ceiling lines and abutting walls. Secure in place on alternate channel flanges at maximum 24 inches (600 mm) on center.
 - 1. Orientation: Vertical.
 - 2. Spacing: As indicated.
- E. Blocking: Install wood blocking for support of:
 - 1. Wall-mounted handrails
 - 2. Wall-mounted door hardware.
- 3. BOARD INSTALLATION
 - A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
 - B. Single-Layer Nonrated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
 - C. Installation on Metal Framing: Use screws for attachment of gypsum board.
- 4. INSTALLATION OF TRIM AND ACCESSORIES
 - A. Control Joints: Place control joints consistent with lines of building spaces and as shown in the drawings but:
 - 1. Not more than 30 feet (10 meters) apart on walls and ceilings over 50 feet (16 meters) long.
 - B. Corner Beads: Install at external corners, using longest practical lengths.
 - C. Edge Trim: Install at locations where gypsum board abuts dissimilar materials.
- 5. JOINT TREATMENT
 - A. Paper Faced Gypsum Board: Use paper joint tape, bedded with ready-mixed vinyl-based joint compound and finished with ready-mixed vinyl-based joint compound.
 - B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
 - 1. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
 - 2. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.
 - 3. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.
 - C. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
 - 1. Feather coats of joint compound so that camber is maximum 1/32 inch (0.8 mm).
 - D. Fill and finish joints and corners of cementitious backing board as recommended by manufacturer.
- 6. TOLERANCES
 - A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet (3 mm in 3 m) in any direction.

END OF SECTION 09.2116

SECTION 09.3000 - TILING

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Tile for floor applications.
 - B. Tile for wall applications.
 - C. Cementitious backer board as tile substrate.
 - D. Coated glass mat backer board as tile substrate.
 - E. Stone thresholds.
 - F. Ceramic accessories.
 - G. Ceramic trim.
 - H. Non-ceramic trim.
2. REFERENCE STANDARDS
 - A. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2010 (Reaffirmed 2016).
 - B. ANSI A118.1 - American National Standard Specifications for Dry-Set Cement Mortar; 2012 (Revised).
 - C. ANSI A118.3 - American National Standard Specifications for Chemical Resistant, Water Cleanable Tile-Setting and - Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive; 2021.
 - D. ANSI A118.4 - American National Standard Specifications for Modified Dry-Set Cement Mortar; 2012 (Revised).
 - E. ANSI A118.5 - American National Standard Specifications for Chemical Resistant Furan Mortars and Grouts for Tile Installation; 1999 (Reaffirmed 2010).
 - F. ANSI A118.6 - American National Standard Specifications for Standard Cement Grouts for Tile Installation; 2010 (Revised).
 - G. ANSI A118.7 - American National Standard Specifications for High Performance Cement Grouts for Tile Installation; 2010 (Revised).
 - H. ANSI A118.10 - American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes For Thin-Set Ceramic Tile And Dimension Stone Installation; 2014.
 - I. ANSI A118.11 - American National Standard Specifications for EGP (Exterior glue plywood) Latex-Portland Cement Mortar; 1999 (Reaffirmed 2010).
 - J. ANSI A118.12 - American National Standard Specifications for Crack Isolation Membranes for Thin-set Ceramic Tile and Dimension Stone Installation; 2014.
 - K. ANSI A118.13 - American National Standard Specifications for Bonded Sound Reduction Membranes for Thin-Set Ceramic Tile Installation; 2014.
 - L. ANSI A118.15 - American National Standard Specifications for Improved Modified Dry-Set Cement Mortar; 2012.
 - M. ANSI A136.1 - American National Standard for Organic Adhesives for Installation of Ceramic Tile; 2008 (Reaffirmed 2013).
 - N. ANSI A137.1 - American National Standard Specifications for Ceramic Tile; 2013.1.
 - O. ANSI A137.2 - American National Standard Specifications for Glass Tile; 2013.
 - P. ANSI A137.3 - American National Standard Specification for Gauged Porcelain Tile and Gauged Porcelain Tile Panels/Slabs; 2022 .
 - Q. ASTM C150/C150M - Standard Specification for Portland Cement; 2015.
 - R. ASTM C847 - Standard Specification for Metal Lath; 2014a.
 - S. ASTM C1178/C1178M - Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel; 2013.
 - T. ASTM D4068 - Standard Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane; 2015.
 - U. ASTM E492 - Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine; 2009.

- V. ASTM E2179 - Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors; 2003 (Reapproved 2009).
- W. ICC-ES AC308 - Acceptance Criteria for Termite Physical Barrier Systems; 2014 (editorially revised 2017).
- X. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2015.
- 3. ADMINISTRATIVE REQUIREMENTS
 - A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by affected installers.
- 4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.
 - C. Shop Drawings: Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, ceramic accessories, and setting details.
 - D. Samples: Mount tile and apply grout on two plywood panels, minimum 18 by 18 inches (457 by 457 mm) in size illustrating pattern, color variations, and grout joint size variations.
 - E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
 - F. Master Grade Certificate: Submit for each type of tile, signed by the tile manufacturer and tile installer.
 - G. Installer's Qualification Statement:
 - 1. Submit documentation of National Tile Contractors Association (NTCA) or Tile Contractors' Association of America (TCAA) accreditation.
 - 2. Submit documentation of completion of apprenticeship and certification programs.
 - H. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods.
 - I. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01.6000 - Product Requirements, for additional provisions.
- 5. QUALITY ASSURANCE
 - A. Maintain one copy of and ANSI A108/A118/A136 and TCNA (HB) on site.
 - B. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum five years of documented experience.

PART 2 PRODUCTS

- 1. TILE
 - A. Manufacturers: All products by the same manufacturer.
 - B. Ceramic Mosaic Tile, Type __: ANSI A137.1 standard grade.
 - C. Glazed Wall Tile, Type __: ANSI A137.1 standard grade.
 - D. Quarry Tile, Type __: ANSI A137.1 standard grade.
 - E. Pressed Floor Tile, Type __: ANSI A137.1 standard grade.
 - F. Porcelain Tile, Type ____: ANSI A137.1 standard grade.
 - G. Gauged Porcelain Tiles and Panels/Slabs, Type ____: ANSI A137.3 standard grade.
 - H. Natural Stone Tile, Type __:
 - I. Artificial Stone Tile, Type __:
 - J. Glass Tile, Type __: ANSI A137.2 standard grade.
 - K. Metal Tile, Type __:
 - L. Concrete Tile, Type __:
 - 1. Composition: Portland cement, ASTM C150/C150M; marble dust, natural pigmented powders.
- 2. TRIM AND ACCESSORIES
 - A. Ceramic Accessories: Glazed finish, same color and finish as adjacent field tile; same manufacturer as tile.
 - 1. Toilet Tissue Holder: Recessed, for single roll, with spring loaded holder.
 - 2. Towel Bars: Standard design, surface mounted with extensions for casting into small wall openings; cast strength sufficient to resist lateral pull force of 30 lbs (14 Kg).

- B. Pre-Formed Accessories To Be Covered with Tile: High density expanded polystyrene with ANSI A118.10 waterproofing finish or membrane.
 - C. Ceramic Trim: Matching bullnose, double bullnose, cove base, and cove ceramic shapes in sizes coordinated with field tile.
 - 1. Manufacturers: Same as for tile.
 - D. Non-Ceramic Trim: Satin brass anodized extruded aluminum, style and dimensions to suit application, for setting using tile mortar or adhesive.
 - E. Thresholds: 2 inches (51 mm) wide by full width of wall or frame opening; beveled edge on both long edges; without holes, cracks, or open seams.
3. SETTING MATERIALS
- A. Provide setting and grout materials from same manufacturer.
 - B. Latex-Portland Cement Mortar Bond Coat: ANSI A118.4.
 - 1. Applications: Use this type of bond coat where indicated and where no other type of bond coat is indicated.
 - C. Improved Latex-Portland Cement Mortar Bond Coat: ANSI A118.15.
 - 1. Applications: Use this type of bond coat where indicated and where no other type of bond coat is indicated.
 - D. Epoxy Adhesive and Mortar Bond Coat: ANSI A118.3.
 - 1. Applications: Where indicated on drawings.
 - E. Organic Adhesive: ANSI A136.1, thinset mastic type.
 - 1. Use Type I in areas subject to prolonged moisture exposure.
 - F. Adhesive for Bonding Fleece-Backed Underlayments to Non-Cementitious Substrates: Water-based rubber resin.
 - G. Dry-Set Portland Cement Mortar Bond Coat: ANSI A118.1.
 - H. Mortar Bond Coat For Exterior Glue Plywood: ANSI A118.11.
 - 1. Applications: Where thin-set installation is indicated over plywood.
 - I. Mortar Bed Materials: Pre-packaged mix of Portland cement, sand, latex additive, and water.
4. GROUTS
- A. Provide setting and grout materials from same manufacturer.
 - B. High Performance Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.
 - 1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.
 - 2. Use sanded grout for joints 1/8 inch (3.2 mm) wide and larger; use unsanded grout for joints less than 1/8 inch (3.2 mm) wide.
 - 3. Color(s): As selected by Architect from manufacturer's full line.
 - C. Standard Grout: ANSI A118.6 standard cement grout.
 - 1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.
 - 2. Use sanded grout for joints 1/8 inch (3.2 mm) wide and larger; use unsanded grout for joints less than 1/8 inch (3.2 mm) wide.
 - D. Epoxy Grout: ANSI A118.3 chemical resistant and water-cleanable epoxy grout.
 - 1. Applications: Where indicated.
 - 2. Color(s): As selected by Architect from manufacturer's full line.
 - E. Furan Grout: ANSI A118.5 chemical resistant furan resin grout.
 - 1. Applications: Where indicated.
 - F. Premixed Polymer Modified Grout: Single component, stain resistant grout.
 - 1. Applications: Where indicated.
 - 2. Use for joints 1/16 inch (1.6 mm) to 1/2 inch (12.7 mm) wide.
 - 3. Color(s): As selected by Architect from manufacturer's full line.
 - 4. Color(s): As indicated on drawings.
 - G. Stain Resistant Grout Additive: Liquid admixture for sanded and unsanded cement-based grouts; mix with dry grout material in place of water.
 - 1. Applications: Where indicated.

5. MAINTENANCE MATERIALS

- A. Tile Sealant: Gunnable, silicone, siliconized acrylic, or urethane sealant; moisture and mildew resistant type.
 - 1. Applications: Between tile and plumbing fixtures.
 - 2. Color(s): As selected by Architect from manufacturer's full line.
 - 3. Color(s): As indicated on drawings.
- B. Grout Sealer: Liquid-applied, moisture and stain protection for existing or new Portland cement grout.
 - 1. Composition: Water-based colorless silicone.
 - 2. Color(s): As selected by Architect from manufacturer's full line.
 - 3. Color(s): As indicated.

6. ACCESSORY MATERIALS

- A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing.
 - 1. Crack Resistance: No failure at 1/8 inch (3.2 mm) gap, minimum.
 - 2. Fluid or Trowel Applied Type:
 - a. Material: Synthetic rubber or Acrylic.
 - b. Thickness: 20 mils (0.5 mm), maximum.
 - 3. Peel-and-Stick Sheet Type:
 - a. Material: Rubberized membrane laminated to reinforcing fabric.
 - b. Thickness: 20 mils (0.5 mm), maximum.
- B. Waterproofing Membrane at Floors: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
 - 1. Crack Resistance: No failure at 1/16 inch (1.6 mm) gap, minimum; comply with ANSI A118.12.
 - 2. Fluid or Trowel Applied Type:
 - a. Material: Synthetic rubber or Acrylic.
 - b. Thickness: 25 mils (0.6 mm), minimum, dry film thickness.
 - 3. Bonded Sheet Membrane Type:
 - a. Material: PVC sheet membrane with polyester fleece laminated to both sides, 40 mils (1 mm) thick, nominal.
 - b. Material: Polyethylene sheet membrane with non-woven fabric laminated to both sides, 20 to 30 mils (0.5 to 0.8 mm) thick, nominal.
 - 4. Peel-and-Stick Sheet Type:
 - a. Material: Rubberized membrane laminated to reinforcing fabric, 40 mils (1 mm), thick, minimum.
- C. Waterproofing Membrane at Showers and Tiled Tubs: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
 - 1. Fluid or Trowel Applied Type:
 - a. Material: Synthetic rubber.
 - b. Material: Acrylic.
 - c. Thickness: 25 mils (0.6 mm), minimum, dry film thickness.
 - 2. Mortar Bonded Sheet Type:
 - a. Material: PVC sheet membrane, 40 mils (1 mm), thick, minimum.
 - b. Material: Chlorinated polyethylene sheet membrane with polyester fabric laminated to both sides, 30 mils (0.8 mm), thick, minimum.
 - 3. Peel-and-Stick Sheet Type:
 - a. Material: Rubberized membrane laminated to reinforcing fabric, 40 mils (1 mm), thick, minimum.
- D. Waterproofing Membrane Under Thick Mortar Bed at Showers and Tiled Tubs:
 - 1. Material: Chlorinated polyethylene sheet, 40 mils (1.0 mm) thick, minimum; complying with ASTM D4068.
- E. Cleavage Membrane Under Thick Mortar Bed:
 - 1. Material: No. 15 (6.9 kg) asphalt saturated felt.
 - 2. Material: 4 mil (0.1 mm) thick polyethylene film.

- 3. Material: Reinforced asphalt paper.
- F. Reinforcing Mesh: 2 by 2 inch (51 by 51 mm) size weave of 16/16 wire size; welded fabric, galvanized.
- G. Membrane at Walls:
 - 1. Material: No. 15 (6.9 kg) asphalt saturated felt.
 - 2. Material: 4 mil (0.1 mm) thick polyethylene film.
- H. Metal Lath: ASTM C847 Flat diamond mesh, of weight to suit application, galvanized finish.
- I. Underlayment at Floors: Specifically designed for bonding to thin-set setting mortar; not primarily a waterproofing material and having the following characteristics:
 - 1. Sound Reduction: Comply with ANSI A118.13 bonded membrane, ASTM E2179, ASTM E492, ANSI A118.13 bonded membrane, ASTM E2179, ASTM E492, ANSI A118.13 bonded membrane, ASTM E2179, and ASTM E492.
 - 2. Crack Resistance: No failure at 1/16 inch (1.6 mm) gap, minimum; comply with ANSI A118.12.
 - 3. Water Resistance: Comply with ANSI A118.10, bonded waterproofing.
 - 4. Termite Resistance: 100 percent when tested in accordance with ICC-ES AC308.
 - 5. Uncoupling Function: Allow for separation between membrane and the mortar adhering tile to the membrane when subjected to excessive substrate movement.
 - 6. Suitable for installation over green concrete.
 - 7. Suitable for installation over wood-based substrates.
 - 8. Type: Thin-Set Mortar Adhered Sheet.
 - 9. Type: Peel-and-Stick Sheet.
- J. Sound Control Underlayment at Floors: Recycled rubber type, fully-adhered.
 - 1. Sound Reduction: Comply with ASTM E492.
 - 2. Thickness: 1/8 inch (3.2 mm), nominal.
- K. Sound Control Underlayment at Floors: Cork type, fully-adhered.
 - 1. Sound Reduction: Comply with ASTM E2179.
 - 2. Thickness: 15/64 inch (6 mm), nominal.
 - 3. Applications: Accepted for use as part of tile installation method F-135 on concrete floors in accordance with TCNA (HB).
- L. Sound Control Underlayment at Floors: Cork and recycled rubber composite type, fully-adhered.
 - 1. Sound Reduction: Comply with ASTM E2179.
 - 2. Thickness: 13/64 inch (5 mm), nominal.
 - 3. Applications: Accepted for use as part of tile installation method F-135 on concrete floors in accordance with TCNA (HB).
- M. Backer Board: Cementitious type complying with ANSI A118.9; high density, glass fiber reinforced, 1/2 inch (12.7 mm) thick; 2 inch (51 mm) wide coated glass fiber tape for joints and corners.
- N. Backer Board: Coated glass mat type complying with ASTM C1178/C1178M; inorganic fiberglass mat on both surfaces and integral acrylic coating vapor retarder.
 - 1. Standard Type: Thickness 1/2 inch (12.7 mm).
 - 2. Fire Resistant Type: Type X core, thickness 5/8 inch (15.9 mm).
- O. Backer Board: High density polystyrene with reinforced cementitious coating on both sides; with compatible alkaline resistant joint tape; to be covered with waterproofing prior to installation of tile.
 - 1. Thickness: 1/2 inch (12.7 mm).
- P. Mesh Tape: 2 inch (50 mm) wide self-adhesive fiberglass mesh tape.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Verify that subfloor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.

- B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive tile.
 - C. Verify that subfloor surfaces are dust free and free of substances that could impair bonding of setting materials to subfloor surfaces.
 - D. Cementitious Subfloor Surfaces: Verify that substrates are ready for tiling installation by testing for moisture and alkalinity (pH).
 - 1. Obtain instructions if test results are not within limits recommended by tiling material manufacturer and setting material manufacturer.
 - 2. Follow moisture and alkalinity remediation procedures in Section 09.0561.
 - E. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within the following limits:
 - F. Verify that required floor-mounted utilities are in correct location.
2. PREPARATION
- A. Protect surrounding work from damage.
 - B. Vacuum clean surfaces and damp clean.
 - C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.
 - D. Install backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of setting material to a feather edge.
 - E. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.
3. INSTALLATION - GENERAL
- A. Install tile, thresholds, and stair treads and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.19, manufacturer's instructions, and TCNA (HB) recommendations.
 - B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
 - C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
 - D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.
 - E. Form internal angles square and external angles bullnosed.
 - F. Install ceramic accessories rigidly in prepared openings.
 - G. Install non-ceramic trim in accordance with manufacturer's instructions.
 - H. Install thresholds where indicated.
 - I. Sound tile after setting. Replace hollow sounding units.
 - J. Keep control and expansion joints free of mortar, grout, and adhesive.
 - K. Prior to grouting, allow installation to completely cure; minimum of 48 hours.
 - L. Grout tile joints unless otherwise indicated. Use standard grout unless otherwise indicated.
 - M. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.
4. INSTALLATION - FLOORS - THIN-SET METHODS
- A. Over exterior concrete substrates, install in accordance with TCNA (HB) Method F102, with standard grout.
 - B. Over interior concrete substrates, install in accordance with TCNA (HB) Method F113, dry-set or latex-Portland cement bond coat, with standard grout, unless otherwise indicated.
 - 1. Use uncoupling membrane under all tile unless other underlayment is indicated.
 - 2. Where waterproofing membrane is indicated, install in accordance with TCNA (HB) Method F122, with latex-Portland cement grout.
 - 3. Where epoxy bond coat and grout are indicated, install in accordance with TCNA (HB) Method F131.
 - 4. Where furan bond coat and grout are indicated, install in accordance with TCNA (HB) Method F133.
 - 5. Where epoxy or furan grout is indicated, but not epoxy or furan bond coat, install in accordance with TCNA (HB) Method F115.

- C. Over wood substrates, install in accordance with TCNA (HB) Method F142, with standard grout, unless otherwise indicated.
 - 1. Where epoxy bond coat and grout are indicated, install in accordance with TCNA (HB) Method F143.
 - D. Over wood substrate with backer board underlayment, install in accordance with TCNA (HB) Method F144, for cementitious backer boards, with standard grout.
 - E. Install tile-to-tile floor movement joints in accordance with TCNA (HB) Method EJ171F.
5. INSTALLATION - FLOORS - MORTAR BED METHODS
- A. Over exterior concrete substrates, install in accordance with TCNA (HB) Method F101, bonded, with standard grout.
 - B. Over interior concrete substrates, install in accordance with TCNA (HB) Method F111, with cleavage membrane, unless otherwise indicated.
 - 1. Where waterproofing membrane is indicated, with standard grout or no mention of grout type, install in accordance with TCNA (HB) Method F121.
 - 2. Where epoxy bond coat and grout are indicated, install in accordance with TCNA (HB) Method F132, bonded.
 - 3. Where epoxy or furan grout is indicated, but not epoxy or furan bond coat, install in accordance with TCNA (HB) Method F114, with cleavage membrane.
 - C. Over wood substrates, install in accordance with TCNA (HB) Method F141, with standard grout, unless otherwise indicated.
 - D. Cleavage Membrane: Lap edges and ends.
 - E. Waterproofing Membrane: Install as recommended by manufacturer and as specified in the section in which the product is specified.
 - F. Mortar Bed Thickness: 5/8 inch (15.9 mm), unless otherwise indicated.
6. INSTALLATION - SHOWERS AND BATHTUB WALLS
- A. At tiled shower receptors install in accordance with TCNA (HB) Method B415, mortar bed floor, and W244, thin-set over cementitious backer unit walls.
 - B. At bathtub walls install in accordance with TCNA (HB) Method B412, over cementitious backer units with waterproofing membrane.
 - C. Grout with standard grout as specified above.
7. INSTALLATION - WALL TILE
- A. On exterior walls install in accordance with TCNA (HB) Method W244, thin-set over cementitious backer units, with waterproofing membrane.
 - B. Over cementitious backer units on studs, install in accordance with TCNA (HB) Method W244, using membrane at toilet rooms.
 - C. Over cementitious backer units install in accordance with TCNA (HB) Method W223, organic adhesive.
 - D. Over coated glass mat backer board on studs, install in accordance with TCNA (HB) Method W245.
 - E. Over gypsum wallboard on wood or metal studs install in accordance with TCNA (HB) Method W243, thin-set with dry-set or latex-Portland cement bond coat, unless otherwise indicated.
 - 1. Where mortar bed is indicated, install in accordance with TCNA (HB) Method W222, one coat method.
 - 2. Where waterproofing membrane is indicated other than at showers and bathtub walls, install in accordance with TCNA (HB) Method W222, one coat method.
 - F. Over interior concrete and masonry install in accordance with TCNA (HB) Method W202, thin-set with dry-set or latex-Portland cement bond coat.
 - G. Over wood studs without backer install in accordance with TCNA (HB) Method W231, mortar bed, with membrane where indicated.
 - H. Over metal studs without backer install in accordance with TCNA (HB) Method W241, mortar bed, with membrane where indicated.
8. CLEANING
- A. Clean tile and grout surfaces.

SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"

Tiling

9. PROTECTION

- A. Do not permit traffic over finished floor surface for 4 days after installation.

END OF SECTION 09.3000

Resilient Flooring

SECTION 09.6500 - RESILIENT FLOORING

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Resilient tile flooring.
 - B. Resilient base.
 - C. Installation accessories.
2. REFERENCE STANDARDS
 - A. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings; Resilient Floor Covering Institute; October 2011.
3. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
 - C. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
4. DELIVERY, STORAGE, AND HANDLING
 - A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.
 - B. Store all materials off of the floor in an acclimatized, weather-tight space.
 - C. Maintain temperature in storage area between 55 degrees F (13 degrees C) and 90 degrees F (72 degrees C).

PART 2 PRODUCTS

1. ACCESSORIES
 - A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
 - B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.

PART 3 EXECUTION

1. EXAMINATION
 - A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
2. PREPARATION
 - A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
 - B. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface.
 - C. Prohibit traffic until filler is fully cured.
 - D. Clean substrate.
3. INSTALLATION - GENERAL
 - A. Starting installation constitutes acceptance of subfloor conditions.
 - B. Install in accordance with manufacturer's written instructions.
 - C. Spread only enough adhesive to permit installation of materials before initial set.
 - D. Fit joints and butt seams tightly.
 - E. Set flooring in place, press with heavy roller to attain full adhesion.
 - F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
 - G. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
 - H. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
4. CLEANING
 - A. Remove excess adhesive from floor, base, and wall surfaces without damage.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Resilient Flooring

B. Clean in accordance with manufacturer's written instructions.

5. PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION 09.6500

Exterior Painting

SECTION 09.9113 - EXTERIOR PAINTING

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Surface preparation.
 - B. Field application of paints.
 - C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
 1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
 2. Exposed surfaces of steel lintels and ledge angles.
 3. Mechanical and Electrical:
 - a. On the roof and outdoors, paint equipment that is exposed to weather or to view, including factory-finished materials.
 - D. Do Not Paint or Finish the Following Items:
 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
 2. Items indicated to receive other finishes.
 3. Items indicated to remain unfinished.
 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
 5. Non-metallic roofing and flashing.
 6. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and lead.
 7. Marble, granite, slate, and other natural stones.
 8. Floors, unless specifically indicated.
 9. Ceramic and other types of tiles.
 10. Brick, glass unit masonry, architectural concrete, cast stone, integrally colored plaster and stucco.
 11. Exterior insulation and finish system (EIFS).
 12. Glass.
 13. Concrete masonry units in utility, mechanical, and electrical spaces.
 14. Concealed pipes, ducts, and conduits.
2. RELATED REQUIREMENTS
 - A. Section 01.6116 - Volatile Organic Compound (VOC) Content Restrictions.
 - B. Section 05.5000 - Metal Fabrications: Shop-primed items.
 - C. Section 05.5100 - Metal Stairs: Shop-primed items.
 - D. Section 09.9123 - Interior Painting.
 - E. Section 09.9600 - High-Performance Coatings.
 - F. Section 32.1723.13 - Painted Pavement Markings: Painted pavement markings.
3. DEFINITIONS
 - A. Comply with ASTM D16 for interpretation of terms used in this section.
4. REFERENCE STANDARDS
 - A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2014.
 - B. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials; 2007.
 - C. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.
 - D. SSPC-SP 1 - Solvent Cleaning; 2015.
 - E. SSPC-SP 2 - Hand Tool Cleaning; 1982 (Ed. 2004).
 - F. SSPC-SP 6 - Commercial Blast Cleaning; 2007.
 - G. SSPC-SP 13 - Surface Preparation of Concrete; (Reaffirmed 2015).; 2003.

5. SUBMITTALS

- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 - 2. MPI product number (e.g. MPI #47).
 - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
 - 4. Full and complete color charts for all paint systems specified.

6. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum ten years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum five years documented experience and approved by manufacturer.

7. DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

8. FIELD CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 50 degrees F (10 degrees C) for exterior; unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

1. MANUFACTURERS

- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
 - 1. Base Manufacturer: Benjamin Moore & Co..
 - 2. Pittsburgh Paints; ____: www.ppgpaints.com/#sle.
 - 3. Sherwin-Williams Company; ____: www.sherwin-williams.com/#sle.
- C. Primer Sealers: Same manufacturer as top coats.

2. PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint.
 - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 - 2. Supply each paint material in quantity required to complete entire project's work from a single production run.
 - 3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

3. PAINT SYSTEMS - EXTERIOR

- A. Paint E-OP - Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including concrete, brick, and fiber cement siding.

1. One coat primer: [Benjamin Moore Fresh Start Multi Purpose Primer (N023)].
 2. Top Coat(s): Two coats of Exterior Latex.
 - a. At Brick and Concrete: Benjamin Moore Ultra Spec Exterior Satin (N448); MPI #15.
 - b. At Fiber Cement: Benjamin Moore Ultra Spec Exterior Gloss (N449); MPI #11.
 - B. Paint WE-OP-3L - Wood, Opaque, Latex, 3 Coat:
 1. One coat of latex primer sealer; Benjamin Moore Fresh Start Multi Purpose Primer (N023); MPI #6, #17, #39, #137.
 2. Gloss: Two coats of latex enamel; Benjamin Moore Ultra Spec Exterior Gloss (N449); MPI #11.
 - C. Paint CE-OP-2L - Masonry/Concrete, Opaque, Latex, 2 Coat:
 1. One coat sealer: Texcrete WB Texture Waterproofing Sand Texture (3192); MPI #42.
 2. Semi-gloss: One coat of latex enamel; Texcrete WB Texture Waterproofing Sand Texture (3192); MPI #42.
 - D. Paint ME-OP-2A - Ferrous Metals, Primed, Alkyd, 3 Coat:
 1. Touch-up with rust-inhibitive primer; Benjamin Moore Alkyd Metal Primer (P06); MPI #79.
 2. Gloss: Three coats of alkyd enamel; Benjamin Moore Super Spec Urethane Alkyd Gloss Enamel (P22); MPI #9, #48.
 - E. Paint MgE-OP-3A - Galvanized Metals, Alkyd, 3 Coat:
 1. One coat galvanize primer; Benjamin Moore Acrylic Primer (P04); MPI #107, #134.
 2. Gloss: Two coats of alkyd enamel; Benjamin Moore Super Spec Urethane Alkyd Gloss Enamel (P22); MPI #9, #48.
4. ACCESSORY MATERIALS
- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.
 - B. Patching Material: Latex filler.
 - C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

1. EXAMINATION
 - A. Do not begin application of paints and finishes until substrates have been properly prepared.
 - B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
 - C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
 - D. Test shop-applied primer for compatibility with subsequent cover materials.
 - E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 1. Exterior Plaster and Stucco: 12 percent.
 2. Fiber Cement Siding: 12 percent.
 3. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
 4. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.
2. PREPARATION
 - A. Clean surfaces thoroughly and correct defects prior to application.
 - B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
 - C. Remove or repair existing paints or finishes that exhibit surface defects.
 - D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
 - E. Seal surfaces that might cause bleed through or staining of topcoat.
 - F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
 - G. Concrete:

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Exterior Painting

1. Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
 2. Clean surfaces with pressurized water. Use pressure range of 1,500 to 4,000 psi (10,350 to 27,580 kPa) at 6 to 12 inches (150 to 300 mm). Allow to dry.
 3. Clean concrete according to ASTM D4258. Allow to dry.
 4. Prepare surface as recommended by top coat manufacturer and according to SSPC-SP 13.
- H. Masonry:
1. Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
 2. Prepare surface as recommended by top coat manufacturer.
 3. Clean surfaces with pressurized water. Use pressure range of 600 to 1,500 psi (4,140 to 10,350 kPa) at 6 to 12 inches (150 to 300 mm). Allow to dry.
- I. Fiber Cement Siding: Remove dirt, dust and other foreign matter with a stiff fiber brush. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
- J. Exterior Plaster: Fill hairline cracks, small holes, and imperfections with exterior patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- K. Aluminum: Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
- L. Copper: Remove contamination by steam, high pressure water, or solvent washing.
- M. Galvanized Surfaces:
1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
 2. Prepare surface according to SSPC-SP 2.
- N. Ferrous Metal:
1. Solvent clean according to SSPC-SP 1.
 2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces.
 3. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.
- O. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior calking compound after prime coat has been applied. Back prime concealed surfaces before installation.
- P. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with tinted primer.
- Q. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.
3. APPLICATION
- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.
- C. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- E. Apply each coat to uniform appearance.
- F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply additional coats until complete hide is achieved.
- G. Sand wood and metal surfaces lightly between coats to achieve required finish.
- H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- I. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

4. CLEANING
 - A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
5. PROTECTION
 - A. Protect finishes until completion of project.
 - B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION 09.9113

Interior Painting

SECTION 09.9123 - INTERIOR PAINTING

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Surface preparation.
 - B. Field application of paints.
 - C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
 1. Mechanical and Electrical:
 - a. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.
 - b. In finished areas, paint shop-primed items.
2. DEFINITIONS
 - A. Comply with ASTM D16 for interpretation of terms used in this section.
3. REFERENCE STANDARDS
 - A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2014.
 - B. ASTM D4258 - Standard Practice for Surface Cleaning Concrete for Coating; 2005 (Reapproved 2012).
 - C. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials; 2007.
 - D. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.
 - E. SSPC-SP 1 - Solvent Cleaning; 2015.
 - F. SSPC-SP 2 - Hand Tool Cleaning; 1982 (Ed. 2004).
 - G. SSPC-SP 13 - Surface Preparation of Concrete; (Reaffirmed 2015).; 2003.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Provide complete list of products to be used, with the following information for each:
 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 2. MPI product number (e.g. MPI #47).
 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
 4. Full and complete color charts for all paint systems specified.
5. QUALITY ASSURANCE
 - A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum ten years documented experience.
 - B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum five years documented experience and approved by manufacturer.
6. DELIVERY, STORAGE, AND HANDLING
 - A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
 - B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
 - C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.
7. FIELD CONDITIONS
 - A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Interior Painting

- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply materials when relative humidity exceeds 85 percent; at temperatures less than 5 degrees F (3 degrees C) above the dew point; or to damp or wet surfaces.
- D. Minimum Application Temperatures for Paints: 50 degrees F (10 degrees C) for interiors unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

1. MANUFACTURERS

- A. Provide paints and finishes from the same manufacturer unless otherwise noted below.
 - 1. In the event that a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.
 - 2. Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.
 - 3. Substitution of a different paint system using MPI-approved products by the same manufacturer will be considered.
- B. Paints:
 - 1. Base Manufacturer: Benjamin Moore & Co..
 - 2. Or equal as described above.
- C. Primer Sealers: Same manufacturer as top coats.

2. PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready mixed, unless intended to be a field-catalyzed paint.
 - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 - 2. Supply each paint material in quantity required to complete entire project's work from a single production run.
 - 3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

3. PAINT SYSTEMS - INTERIOR

- A. Paint I-OP - Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board, wood, uncoated steel, shop primed steel, galvanized steel, and aluminum.
 - 1. Two top coats and one coat primer.
 - 2. Top Coat(s): High Performance Architectural Interior Latex; MPI #138, 139, 140, or 141.
 - 3. Top Coat Sheen:
 - a. match existing.
- B. Paint I-OP-MD-DT - Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metals and wood:
 - 1. Two top coats and one coat primer.
 - 2. Top Coat(s): Interior Epoxy-Modified Latex; MPI #115 or 215.
 - 3. Top Coat Sheen:
 - a. Match Existing.
- C. Paint I-OP-DF - Dry Fall: Metals; exposed structure and overhead-mounted services, including shop primed steel deck, structural steel, and galvanized conduit.
 - 1. Shop primer by others.
 - 2. One top coat Benjamin Moore SK Dry Fall Flat (N110); MPI #118.
- D. Paint I-OP-FL - Concrete Floors, Latex (Where Indicated):
 - 1. Two top coats and one coat primer.
 - 2. Top Coat(s): Alkyd Floor Enamel, Gloss; MPI #27.

- a. Products:
 - 1) Pittsburgh Paints Floor and Porch Enamel WB Alkyd, 3-610 Series, Gloss.
 - 2) Substitutions: Section 01.6000 - Product Requirements.
- E. Paint I-TR-C - Transparent Finish on Concrete Floors.
 - 1. Sealer: Water Based Sealer for Concrete Floors; MPI #99.
 - a. Products:
 - 1) Behr Premium Wet-Look Sealer High Gloss [No. 985]. (MPI #99)
 - 2) Pittsburgh Paints: 4-6200XI Perma-Crete Plex-Seal WB Interior/Exterior Clear Sealer Satin. (MPI #99)
 - 3) Sherwin-Williams H&C Clarishield Water-Based Wet-Look Concrete Sealer. (MPI #99)
 - 4) Substitutions: Section 01.6000 - Product Requirements.
- 4. ACCESSORY MATERIALS
 - A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Do not begin application of paints and finishes until substrates have been properly prepared.
 - B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
 - C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
 - D. Test shop-applied primer for compatibility with subsequent cover materials.
 - E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 - 1. Gypsum Wallboard: 12 percent.
 - 2. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
- 2. PREPARATION
 - A. Clean surfaces thoroughly and correct defects prior to application.
 - B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
 - C. Remove or repair existing paints or finishes that exhibit surface defects.
 - D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
 - E. Seal surfaces that might cause bleed through or staining of topcoat.
 - F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
 - G. Concrete:
 - 1. Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
 - 2. Clean surfaces with pressurized water. Use pressure range of 1,500 to 4,000 psi (10,350 to 27,580 kPa) at 6 to 12 inches (150 to 300 mm). Allow to dry.
 - 3. Clean concrete according to ASTM D4258. Allow to dry.
 - 4. Prepare surface as recommended by top coat manufacturer and according to SSPC-SP 13.
 - H. Gypsum Board: Fill minor defects with filler compound. Spot prime defects after repair.
 - I. Galvanized Surfaces:
 - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
 - 2. Prepare surface according to SSPC-SP 2.
 - J. Ferrous Metal:
 - 1. Solvent clean according to SSPC-SP 1.

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Interior Painting

2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
 3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.
3. APPLICATION
 - A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
 - B. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
 - C. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
 - D. Apply each coat to uniform appearance in thicknesses specified by manufacturer.
 - E. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.
 - F. Sand wood and metal surfaces lightly between coats to achieve required finish.
 - G. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
 - H. Reinstall electrical cover plates, hardware, machinery, light fixture trim, escutcheons, and fittings removed prior to finishing.
4. CLEANING
 - A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
5. PROTECTION
 - A. Protect finishes until completion of project.
 - B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION 09.9123

Signage

SECTION 10.1400 - SIGNAGE

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Room and door signs.
 - B. Dimensional letter signage - Reverse channel lettering - Back-lit
2. REFERENCE STANDARDS
 - A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
 - B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
 - C. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2009.

PART 2 PRODUCTS

1. MANUFACTURERS
 - A. Flat Signs:
 1. Mohawk Sign Systems, Inc; ____: www.mohawksign.com/#sle.
 - B. Reverse channel lettering - Back-lit; see drawings
 1. A.R.K. Ramos Architectural Signage Systems; Cut Aluminum Letters: www.arkramos.com/#sle.
2. SIGNAGE APPLICATIONS
 - A. Accessibility Compliance: Signs are required to comply with ADA Standards and ICC A117.1 _____, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.
3. SIGN TYPES
 - A. Color and Font: Unless otherwise indicated:
 1. Character Font: TO BE DETERMINED FROM MANUFACTURES STANDARD OPTIONS.
 2. Character Case: Upper case only.
 3. Background Color: TO BE DETERMINED FROM MANUFACTURES STANDARD OPTIONS.
 4. Character Color: TO BE DETERMINED FROM MANUFACTURES STANDARD OPTIONS color.
 5. Location: See Drawings
 - B. BACK-LIT DIMENSIONAL LETTERING
 1. Finish: Backed on enamel.
 - C. FLAT SIGNS : MOHAWK 1000 ADA SIGN SYTEM
 1. Finish: Standard Manufacture Option. Match Existing

END OF SECTION 10.1400

Toilet, Bath, and Laundry Accessories - ASI

SECTION 10.2800 - TOILET, BATH, AND LAUNDRY ACCESSORIES - ASI

PART 1 GENERAL

1. RELATED REQUIREMENTS
 - A. Section 09.2116 - Gypsum Board Assemblies: Placement of wood blocking, steel sheet blocking, and backing plates in stud wall construction for attachment of accessories.
2. REFERENCE STANDARDS
 - A. ASTM C1036 - Standard Specification for Flat Glass; 2011.

PART 2 PRODUCTS

1. MANUFACTURERS
 - A. KOHLER, Inc: www.kohler.com
 - B. Equivalent Manufacturers
2. GRAB BARS
 - A. Grab Bars: Type 304 stainless steel.
 1. Standard Duty Grab Bars: See plumbing accessory legend on sheet A108
 - a. Push/Pull Point Load: 250 lbf (1112 N), minimum.
 - b. Clearance: 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
 - c. Length and Configuration: As indicated in product listing.
3. HOSPITALITY ACCESSORIES
 - A. Robe Hook: Heavy-duty stainless steel, single-prong, circular-shaped bracket and backplate for concealed attachment, satin finish.
 1. Products: Kohler Elate K-27290-BLL
4. MIRRORS
 - A. Mirrors: Stainless steel framed, 1/4 inch (6 mm) thick annealed float glass, ASTM C1036.
 1. Products: Kohler Essentials K-31364-BLL
5. PAPER TOWEL COMBINATION UNITS
 - A. Combination Towel Dispenser/Waste Receptacle: Stainless steel; seamless wall flanges, continuous heavy-duty stainless steel multi-staked piano hinges, tumbler locks on upper and lower doors.
6. SECURITY ACCESSORIES
 - A. Shower Rod and Curtain:
 1. Products: Kohler Elate K-33810-BL
7. SHELVES
 - A. Stainless Steel Shelves:
 1. Products: Schluter-shelf-E Wave, SES1 D10 EB
8. SHOWER AND TUB ACCESSORIES
 - A. Shower Curtain:
 - B. Shower Seat: Wall-mounted; welded tubular seat frame, structural support members, swing-down legs, hinges, and mechanical fasteners of Type 304 stainless steel, rectangular seat.
 1. Products: Bradley - wall mount - phenolic or equal (34 1/2" MAX - 24" min - width)
9. SOAP AND HAND SANITIZER DISPENSERS
 - A. Soap Dispenser: Liquid soap dispenser, deck-mounted on vanity, with polyethylene container concealed below deck; piston and 4 inch (100 mm) spout of stainless steel with bright polished finish; chrome-plated deck escutcheon.
10. TOILET TISSUE DISPENSERS
 - A. Toilet Tissue Holder: Recessed or surface-mounted.
 1. Products: Kohler Elate K-27291-BL

**SPECIFICATIONS FOR CONVENIENCE ONLY "REFER TO
SPECIFICATIONS ON DRAWING SHEETS R300 - R309"**

Toilet, Bath, and Laundry Accessories - ASI

11. MATERIALS

- A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.

12. FINISHES

END OF SECTION 10.2800

Fire Protection Specialties

SECTION 10.4400 - FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1. REFERENCE STANDARDS
 - A. NFPA 10 - Standard for Portable Fire Extinguishers; 2013.
2. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Provide extinguisher operational features.
 - C. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.

PART 2 PRODUCTS

1. FIRE EXTINGUISHERS
 - A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
 - B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
 1. Class: A:B:C type.
 2. Temperature range: Minus 40 degrees F (Minus 40 degrees C) to ____ degrees F (____ degrees C).
2. FIRE EXTINGUISHER CABINETS
 - A. Cabinet Construction: Non-fire rated.
 1. Formed primed steel sheet; 0.036 inch (0.9 mm) thick base metal.
 - B. Cabinet Configuration: Semi-recessed type.
 - C. Door: 0.036 inch (0.9 mm) metal thickness, reinforced for flatness and rigidity with nylon catch. Hinge doors for 180 degree opening with two butt hinge.
 - D. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.
 - E. Finish of Cabinet Exterior Trim and Door: No. 4 - Brushed stainless steel.
 - F. Finish of Cabinet Interior: White colored enamel.
3. ACCESSORIES
 - A. Extinguisher Brackets: Formed steel, chrome-plated.

PART 3 EXECUTION

1. INSTALLATION
 - A. Install in accordance with manufacturer's instructions.
 - B. Install cabinets plumb and level in wall openings, ____ inches (____ mm) from finished floor to inside bottom of cabinet.
 - C. Secure rigidly in place.
 - D. Place extinguishers in cabinets.

END OF SECTION

Metal Canopy Systems

SECTION 10.731613 - METAL CANOPY SYSTEMS

PART 1: GENERAL

1. 1.1 DESCRIPTION OF WORK
 - A. 1. Work in this section includes furnishing and installation of extruded aluminum walkway canopies or extruded aluminum wall-supported canopies as manufactured by Mapes Industries Inc.
2. 2. RELATED ITEMS AND CONSIDERATIONS
 - A. 1. Flashing of various designs may be required. Generic flashing supplied by Mapes. Specialty flashing to be supplied by installer.
 1. 2. Determine wall construction, make-up and thickness.
 2. 3. Ensure adequate wall condition to carry canopy loads where required.
 3. 4. Consider water drainage away from canopy where necessary.
 4. 5. Any necessary removal or relocation of existing structures, obstructions or materials.
3. 1.2 QUALITY ASSURANCE
 - A. 1. Products meeting these specifications established standard of quality required as manufactured by Mapes Industries, Inc. Lincoln, Nebraska 1-888-273-1132.
4. 1.3 FIELD MEASUREMENT
5. 1. CONFIRM DIMENSIONS PRIOR TO PREPARATION OF SHOP DRAWINGS WHEN POSSIBLE.
6. 2. IF REQUESTED, SUPPLY MANUFACTURER S STANDARD LITERATURE AND SPECIFICATIONS FOR CANOPIES.
3. SUBMIT SHOP DRAWINGS SHOWING STRUCTURAL COMPONENT LOCATIONS/POSITIONS, MATERIAL DIMENSIONS AND DETAILS OF CONSTRUCTION AND ASSEMBLY.
7. 1.4 PERFORMANCE REQUIREMENTS
8. 1. CANOPY MUST CONFORM TO LOCAL BUILDING CODES.
 - A. 2. PE Stamped calculations are required and must be signed and sealed by an engineer licensed within the state canopy is installed.
9. 1.5 DELIVER, STORAGE, HANDLING
10. 1. DELIVER AND STORE ALL CANOPY COMPONENTS IN PROTECTED AREAS.

PART 2: PRODUCTS

1. BASIS OF DESIGN MANUFACTURER
2. 1. MAPES CANOPIES
 1. Lincoln, Nebraska
 2. Phone: 1-888-273-1132.
 3. Fax: 1-877-455-6572.
 - B. Equivalent Manufacturers
3. 2.2 MATERIALS
4. 1. DECKING SHALL CONSIST OF A 2 3/4" EXTRUDED .078" DECKING.
5. 2. BEAMS SHALL BE 4"X7".
6. 3. POSTS SHALL BE 4"X4".
7. 4. FASCIA SHALL BE STANDARD EXTRUDED 8" J STYLE.
8. 2.3 FINISHES
9. 1. FINISH TYPE SHALL BE 2-COAT KYNAR FINISH.
10. 2.4 FABRICATION
 - A. 1. Support columns and gutter beams shall be designed such that the columns will be notched to create a "saddle" that will receive and secure the gutter beams.
 - B. 2. Post and beams shall be mechanically assembled utilizing 3/16" fasteners with a minimum shear stress of 350 lb. Pre-welded or factory-welded connections are not acceptable.

- C. 3. Concealed drainage. Water shall drain from covered surfaces into intermediate trough and be directed to Standard Post Drain.

PART 3: EXECUTION

1. 3.1 INSPECTION
2. 1. CONFIRM THAT SURROUNDING AREA IS READY FOR THE CANOPY INSTALLATION.
3. 2. INSTALLER SHALL CONFIRM DIMENSIONS AND ELEVATIONS TO BE AS SHOWN ON DRAWINGS PROVIDED BY MAPES INDUSTRIES. 3. ERECTION SHALL BE PERFORMED BY AN APPROVED INSTALLER AND SCHEDULED AFTER ALL CONCRETE, MASONRY AND ROOFING IN THE AREA IS COMPLETED
4. 3.2 INSTALLATION
 - A. 1. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection.
5. 3.3 AFTER INSTALLATION, ENTIRE SYSTEM SHALL BE LEFT IN A CLEAN CONDITION.

END OF SECTION 10.731613

SECTION 12.3600 - COUNTERTOPS

PART 2 PRODUCTS

1. COUNTERTOPS

- A. Natural Quartz and Resin Composite Countertops: Sheet or slab of natural quartz and plastic resin over continuous substrate.
 - 1. Flat Sheet Thickness: 1-1/4 inch (32 mm), minimum.
 - 2. Natural Quartz and Resin Composite Sheets, Slabs and Castings: Complying with ISFA 3-01 and NEMA LD 3; orthophthalic polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard stone fabrication tools; no surface coating; color and pattern consistent throughout thickness.
 - a. Manufacturers:
 - 1) Cambria Company LLC; ____: www.cambriausa.com/#sle.
 - b. Factory fabricate components to the greatest extent practical in sizes and shapes indicated; comply with NSI (DSDM).
 - c. Finish on Exposed Surfaces: Polished.
 - d. Color and Pattern: As indicated on drawings.
 - 3. Other Components Thickness: 3/4 inch (19 mm), minimum.
 - 4. Back and End Splashes: Same sheet material, square top; minimum 4 inches (102 mm) high.

END OF SECTION 12.3600