

ADDENDUM NO. 2
INDIAN CREEK WRF EXPANSION TO 3 MGD
HENRY COUNTY WATER AUTHORITY

Sealed bids will be received until
11:00 AM local time on October 4, 2016

This addendum hereby amends and/or modifies the Contract Documents, Detailed Specifications, and Drawings, as indicated, that have been issued for this project by Engineering Strategies, Inc. Additionally, questions received by the Engineer are answered at the end of this addendum. All bidders are subject to the provisions of this addendum and shall acknowledge receipt of this addendum on the bid form.

1 DETAILED SPECIFICATIONS

A. Section 09900

1. **ADD** the following to paragraph 2.2.B:

27. Concrete Floors – Sever Chemical

- a. System Type: Epoxy
- b. Surface Preparation: SSPC-SP13/NACE 6, followed by abrasive blast
- c. Prime Coat: Series 201 Epoxoprime, 6 to 12 mils DFT
- d. Intermediate Coat: Series 282 Theme-Glaze, 6 to 12 mils DFT
- e. Finish Coat: Series 280 Theme-Glaze, 6 to 12 mils DFT
- f. Total DFT: 18 to 36 mils
- g. Spread sand over prime coat to create rough non-slip surface.

2 DRAWINGS

A. **REPLACE** the following drawings with the attached drawings.

- 1. 45-S-3
- 2. 95-S-2

3 QUESTIONS AND ANSWERS

Q2-1: *Will the owner furnish and pay for water and power for the commissioning and start-up testing? Membrane tanks will be filled and emptied several times during commissioning and will require potable water.*

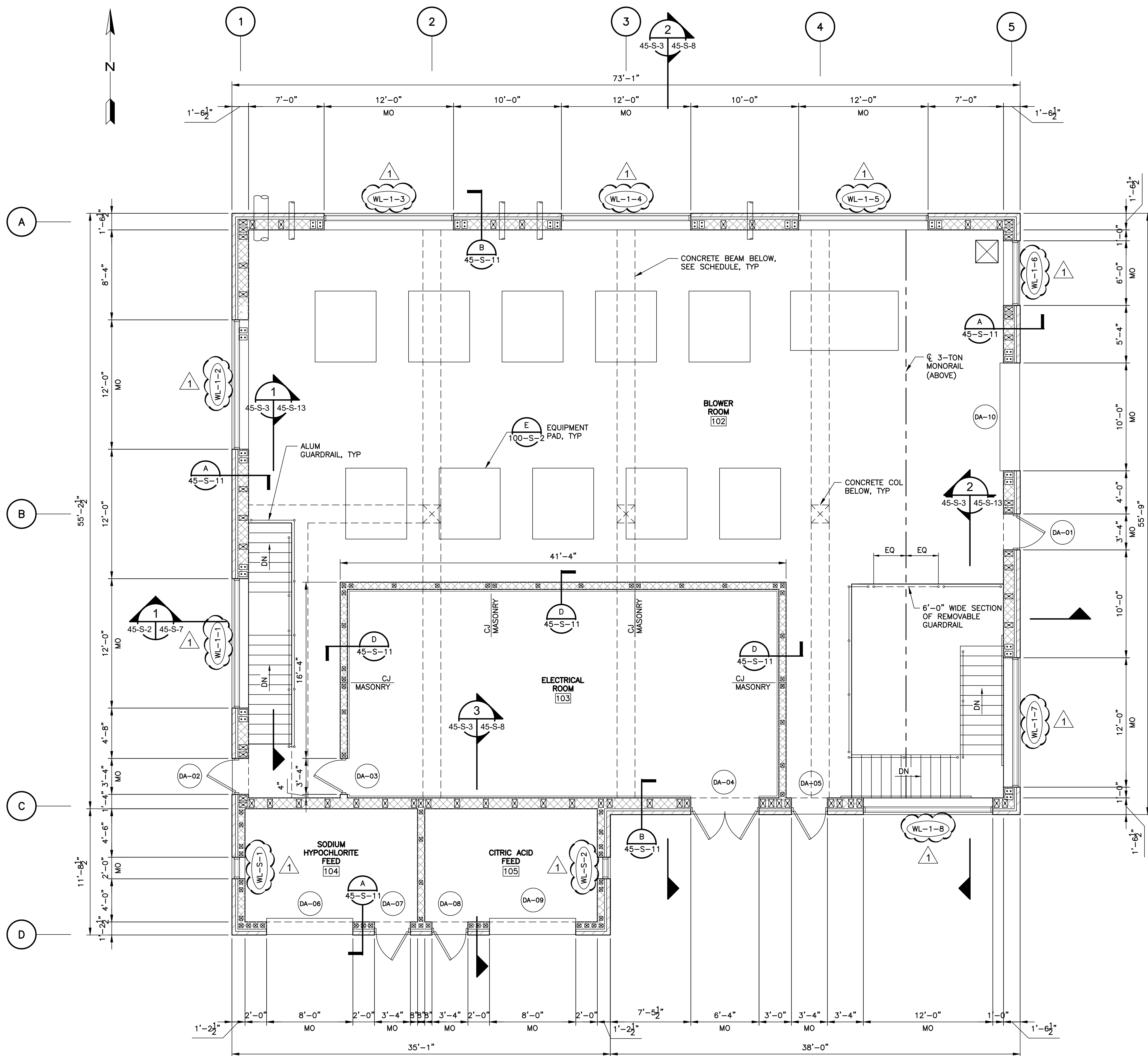
A2-1: Yes, the owner will furnish and pay for water and power for the commissioning and start-up testing. This assumes all equipment is installed and powered through the new electrical system. During construction, the contractor is responsible for furnishing and paying for temporary utilities per Section 01510.

Q2-2: *Who is responsible for supplying the chemicals? Will tanks need to be topped off after commissioning and testing?*

A2-2: Owner will supply chemicals. Contractor shall coordinate with owner to have chemicals delivered after chemical facilities are installed and accepted for operation.

- Q2-3: *Who will remove and refill fuel from the existing generator during the relocation? If it is the contractor's responsibility, then how many gallons?*
- A2-3: Contractor shall be responsible for removing, transporting, and refilling generator fuel tanks. The fuel tank sizes are 4,500 gallons and 1,200 gallons.
- Q2-4: *Will the contractor be responsible for the cost of any local permit fees?*
- A2-4: Contractor is responsible for paying \$40 per disturbed acre to Georgia EPD. Any fees paid to Henry County for the land disturbance permit and/or building permit will be reimbursed to the contractor under the allowance included in the Bid Form. Reference Section 02115, paragraph 1.1.C. The fee to Georgia EPD must be paid prior to Henry County issuing the land disturbance permit.
- Q2-5: *Will all pipe joints on buried pipelines, including the outfall, require restrained joints per section 15062, par. 2.1.5.b or can we use DIPRA thrust restraint design to determine how many joints require restraint?*
- A2-5: All pressurized force mains shall be constructed with restrained joint pipe and fittings per General Civil Note 3. Gravity lines shall be restrained as per DIPRA thrust restrain design. The outfall line will generally be unrestrained except for what is required at bends and the last approximately 250 feet of line where it runs down a steep slope (reference Addendum No. 1).
- Q2-6: *Specifications call for flange bolts for ductile iron fittings to be A307grB, but the note on 00-G-2 says all nut and bolts to be 316ss. Which is correct.*
- A2-6: All hardware shall be Type 316 stainless steel. Reference Addendum No. 1.
- Q2-7: *Sheet 00-C-40 shows a new 6" pipe being installed in the existing LAS Screen Structure. This detail is shown N.T.S. How deep is this structure? Can the structure be drained and liquids isolated by the owner prior to installing pipe? Will the structure need to be cleaned out prior to installing pipe?*
- A2-7: The structure is approximately 26 feet deep. The structure has a gate that can be closed to shut off flow from the pond. Contractor shall provide pump to dewater the structure and clean out any debris that is in the bottom.
- Q2-8: *The Room Finish Schedule finish schedule shows epoxy flooring to be installed in rooms 103, 104, and 105. Can you confirm that these rooms will receive the epoxy flooring and if so, can you provide specifications and/or detail?*
- A2-8: Room 103 (MBR Process Electrical Room) does not need to be painted. Room 104 (MBR Process Sodium Hypochlorite Feed Room) and Room 105 (MBR Process Citric Acid Feed Room) shall be painted using Coating System No. 27.
- Q2-9: *Are CADD files available for earthwork? If not, are full scale .pdf's available?*
- A2-9: Full scale .pdf's were provided in Addendum No. 1.
- Q2-10: *Reference dwg. 40-S-2, detail C, note 4: Is the final post-tension force of 50-kips the total for all strands, or is it 50-kips per strand?*
- A2-10: The final total post-tension force of all strands is 50 kip. The number of strands to achieve the final total post-tension force shall be per the post-tension system design engineer. A minimum of three (3) strands shall be provided to achieve the final post-tension force and shall be centered about the 1'-6" concrete encasement.

**** END OF ADDENDUM ****



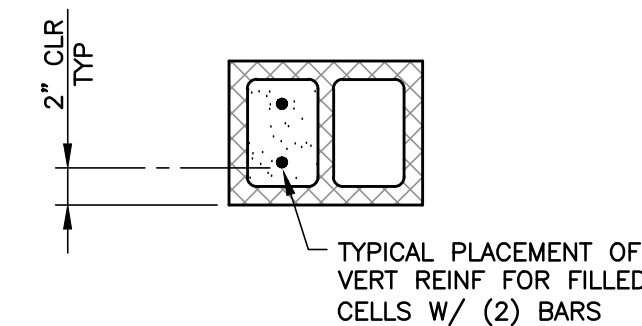
FLOOR PLAN AT EL. 792.00
PLAN
 3/16"=1'-0"

WALL LEGEND:

- INDICATES 12" CMU W/ 4" BRICK VENEER
- INDICATES 12" CMU
- INDICATES 8" CMU W/ 4" BRICK VENEER
- INDICATES 8" CMU

CMU WALL REINFORCEMENT

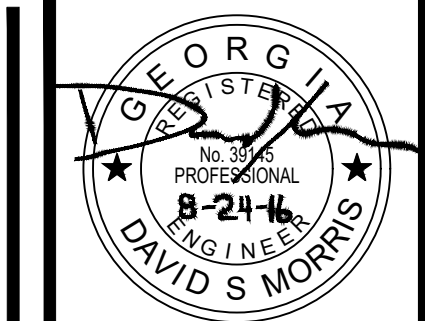
- DENOTES FILLED CELL. PROVIDE FILLED CELLS AT ALL CORNERS PER STD DETAILS, OPENINGS AND WHERE SHOWN ON PLAN.
- 12" CMU WALL FILLED CELL REINFORCING TO BE (1)-#5 VERT BAR, CTR. MAXIMUM 32" OC, MIN LAP LENGTH: 30", UNO.
- 8" EXTERIOR CMU WALL FILLED CELL REINFORCING TO BE (1)-#5 VERT BAR, CTR. MAXIMUM 24" OC, MIN LAP LENGTH: 30", UNO.
- 8" INTERIOR CMU WALL FILLED CELL REINFORCING TO BE (1)-#5 VERT BAR, CTR. MAXIMUM 48" OC, MIN LAP LENGTH: 30", UNO.
- PROVIDE HORIZONTAL BOND BEAMS AT A SPACING NO GREATER THAN 48" O.C AND WHERE SHOWN ON DRAWINGS.
- PROVIDE CLEAN OUT AND INSPECTION BLOCK OUTS IN CELLS CONTAINING REINF FOR GROUT LIFTS EXCEEDING 5'-0".
- DENOTES FILLED CELL W/ (2) #5 BARS



NOTES:

1. WL-1-8 INDICATES LOUVER IDENTIFIER. SEE SHEETS 45-H-1. & 45-H-3 FOR LOUVER DESCRIPTIONS, DATA AND SCHEDULE.
2. SEE SHEET 95-S-2 FOR LOUVER HEAD, JAMB AND SILL DETAILS. LOUVER MINIMUM DESIGN WIND PRESSURES TO BE +38/-41 PSF (FACTORED).

ENGINEERING TECHNOLOGIES, INC.
 3551 W. LAKE MARY BLVD., SUITE 210
 LAKE MARY, FLORIDA 32746
 PHONE: (407)-322-0500
 EIT PROJECT NO.: 15-137



ESI
ENGINEERING STRATEGIES, INC.
 3855 SHALLOWFORD ROAD, SUITE 525
 MARLBOROUGH, MA 01752
 (773) 429-0001

PROJECT NUMBER: INDIAN CREEK WRF Expansion/Abat/Structural/45-S-3 MBR PROCESS BLD FLOOR PLAN.dwg - 9/27/16

DATE:	AUGUST 2016
REVISION	DATE
ADDENDUM NO.2	09/27/16

DSGN: DSM
 DRWN: DSM
 CHCK: JVS

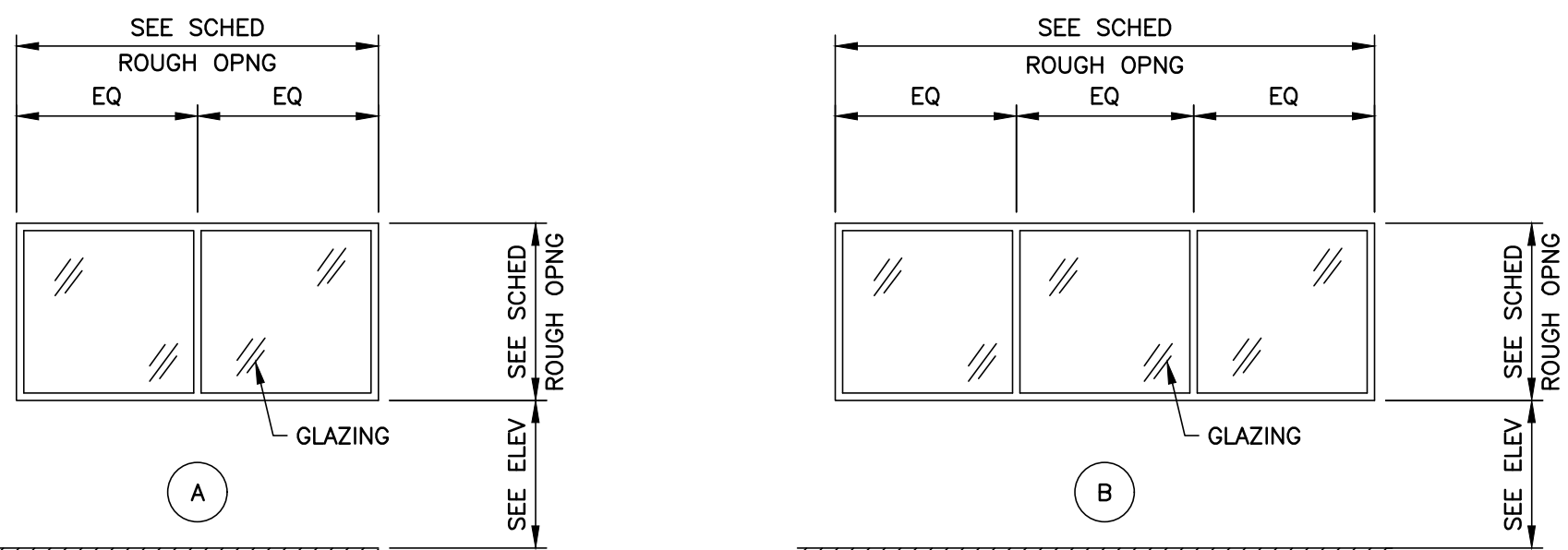
BAR BELOW IS 1" LONG FOR SCALES SHOWN ON THIS SHEET. IF NOT 1" LONG ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

INDIAN CREEK WRF EXPANSION TO 3 MGD
 HENRY COUNTY WATER AUTHORITY
 MBR PROCESS BUILDING
 FLOOR PLAN

SHEET NO.
 45-S-3

WINDOW SCHEDULE

BUILDING	NUMBER	ROUGH OPENING		TYPE	MAT'L	FIN	DETAILS			GLAZING	DESIGN WIND PRESSURE	NOTES
		WIDTH	HEIGHT				HEAD	JAMB	SILL			
ADMIN	WC-01	8'-0"	4'-0"	A	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-02	12'-0"	4'-0"	B	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-03	12'-0"	4'-0"	B	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-04	12'-0"	4'-0"	B	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-05	12'-0"	4'-0"	B	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-06	8'-0"	4'-0"	B	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-07	8'-0"	4'-0"	A	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-08	8'-0"	4'-0"	A	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-09	8'-0"	4'-0"	A	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-10	12'-0"	4'-0"	A	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
	WC-11	12'-0"	4'-0"	A	ALUM	ANOD	-	-	-	1" INSULATED	+38/-47	
GENERAL NOTES	NOTES: LIST OF ABBREVIATIONS: K = KYNAR ALUM = ALUMINUM ANOD = ANODIZED											



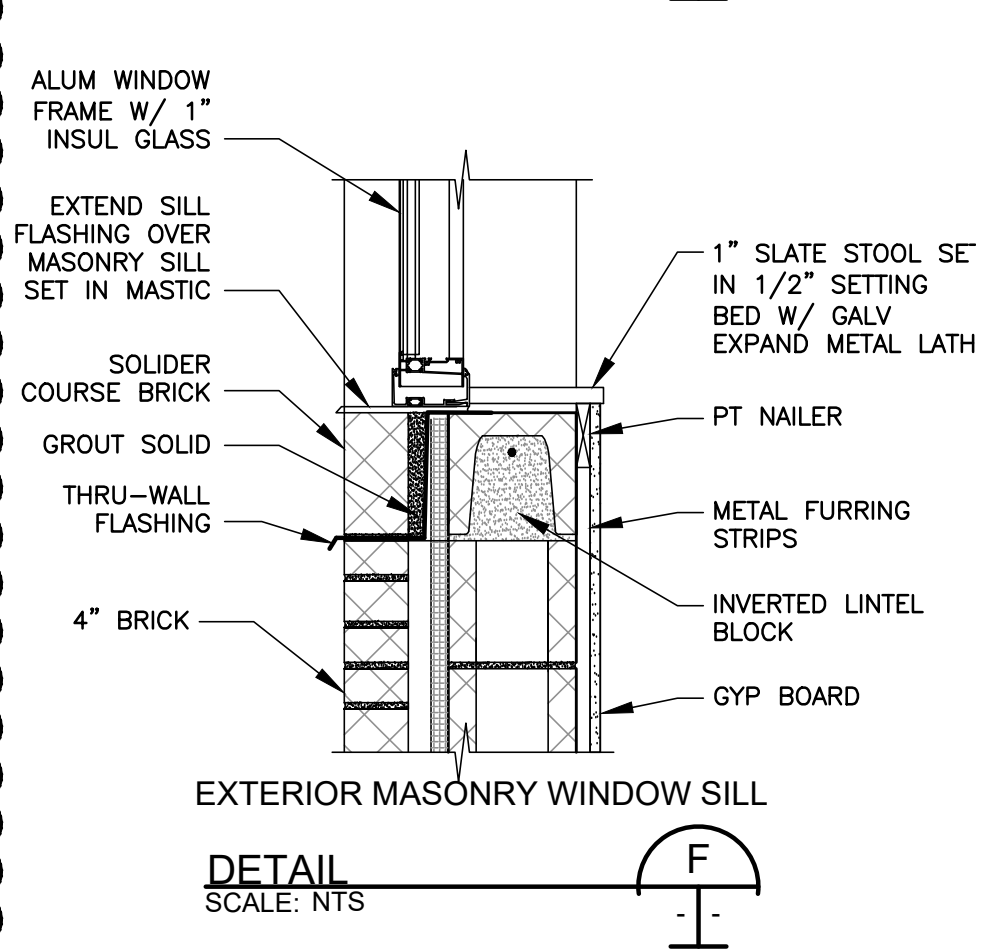
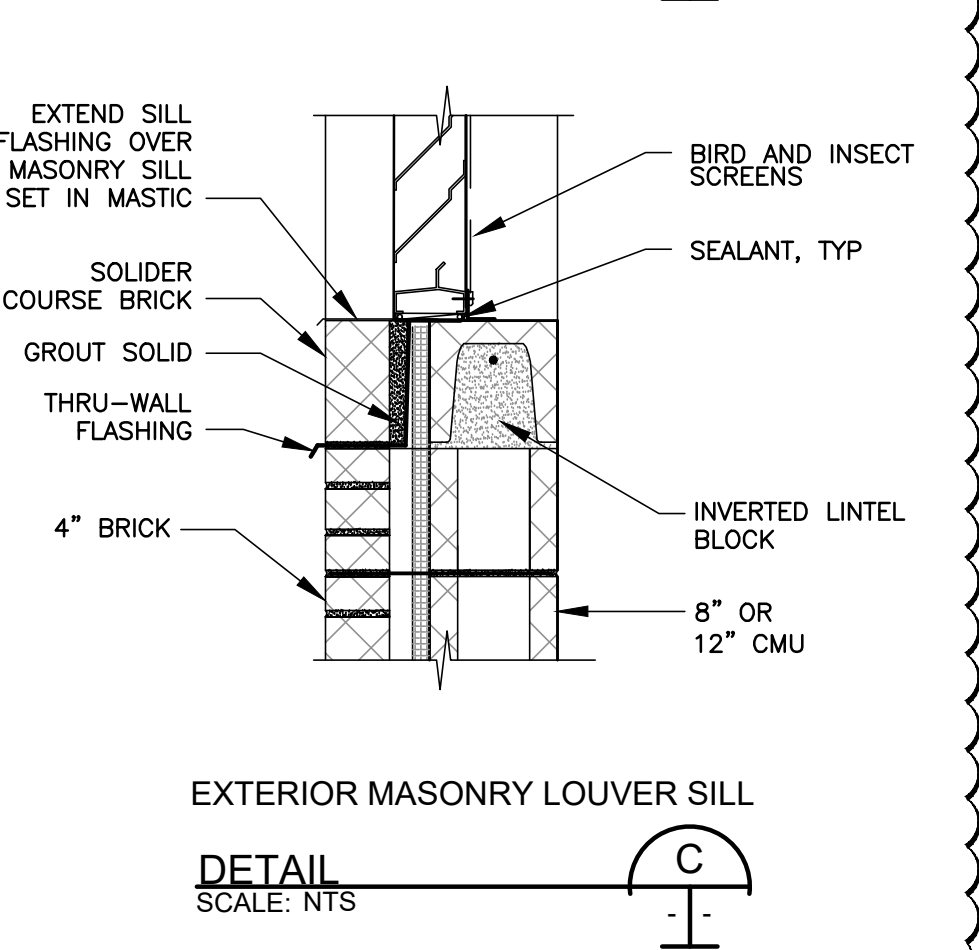
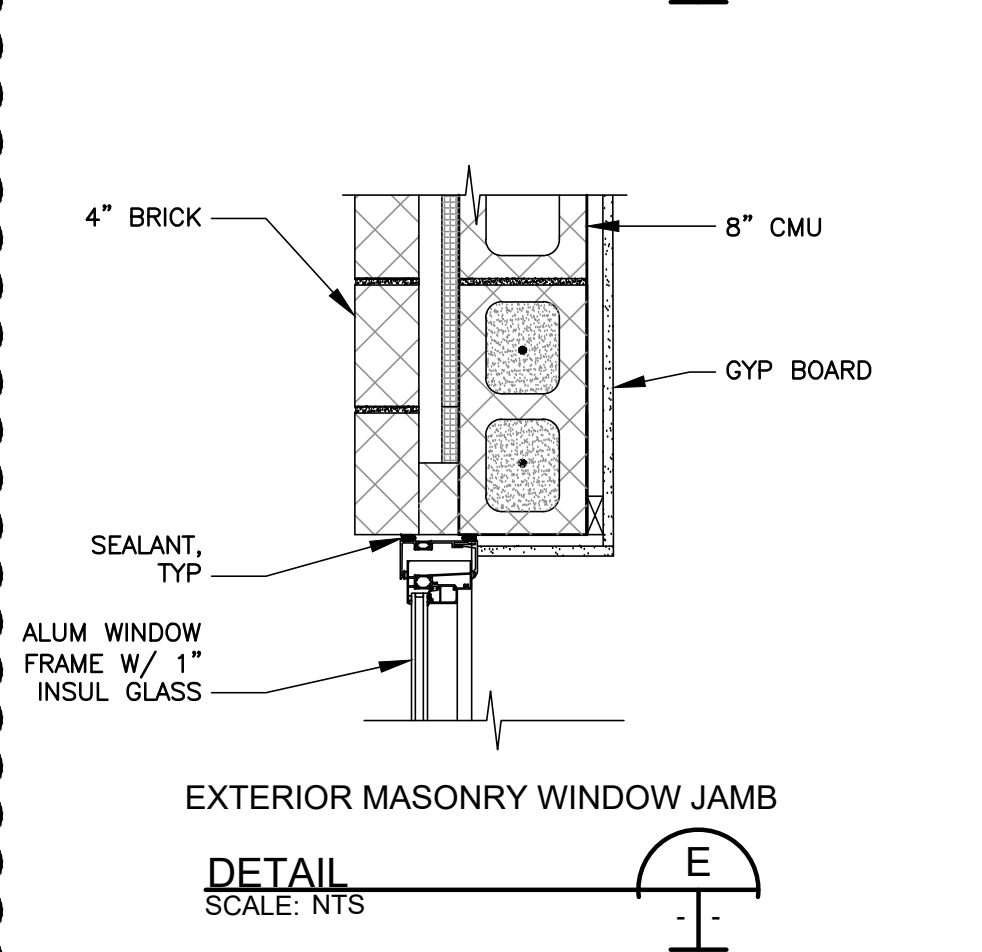
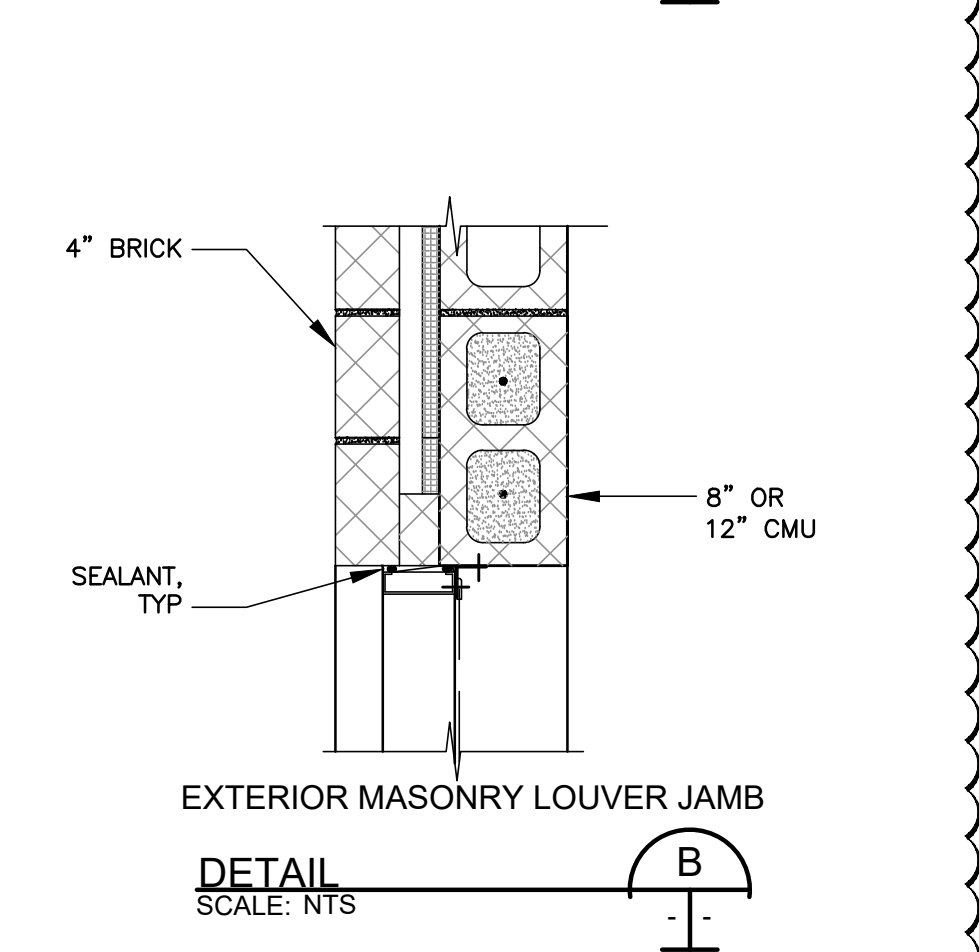
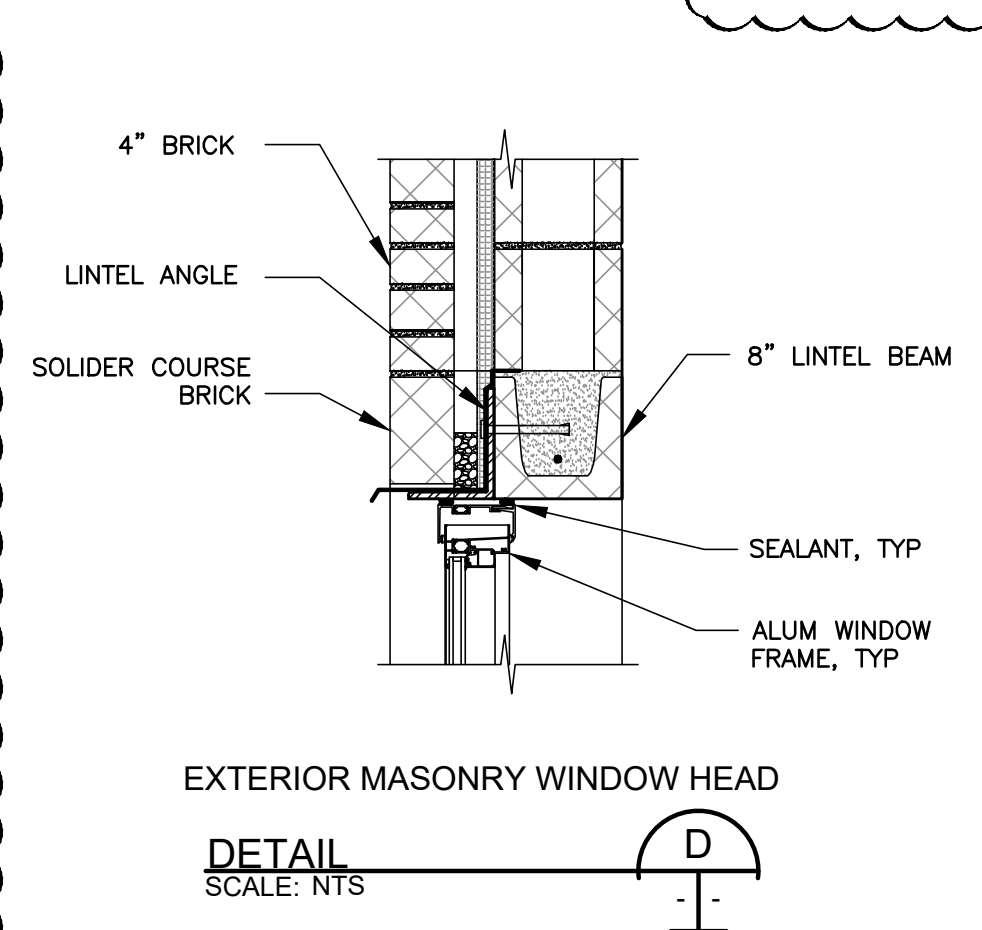
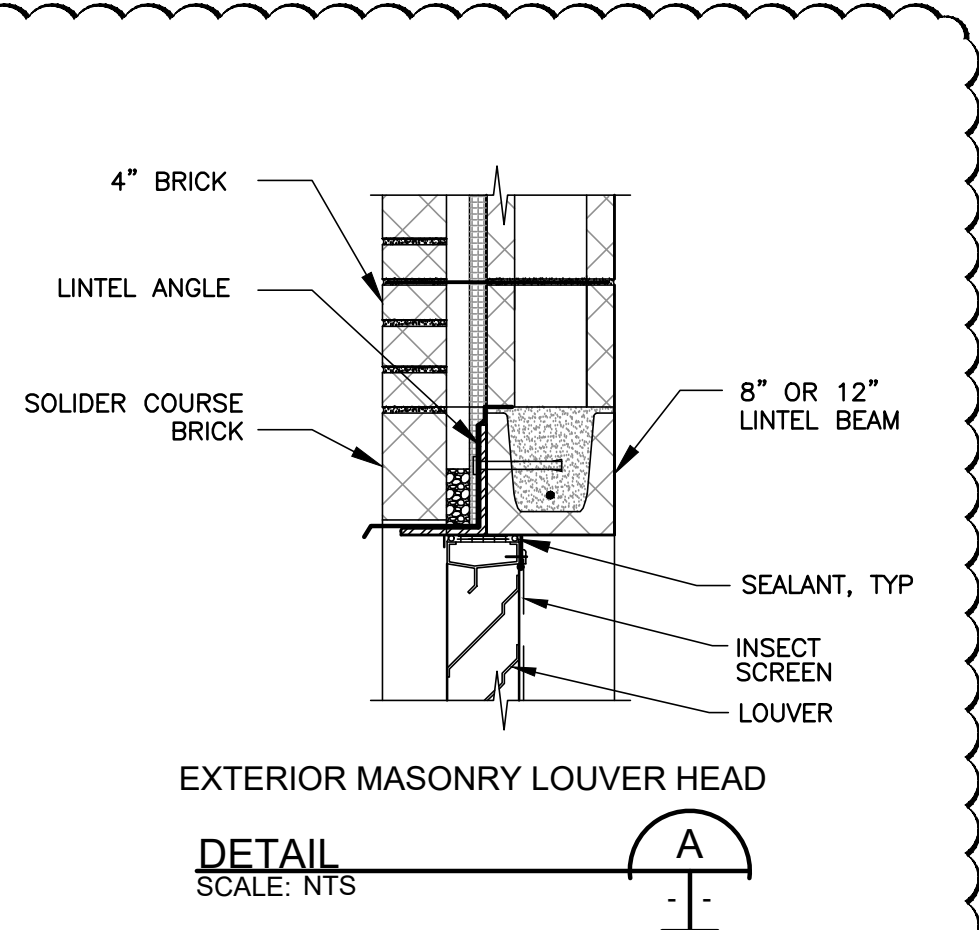
WINDOW TYPES
NTS



ROOM FINISH SCHEDULE

BUILDING	ROOM NUMBER	ROOM NAME	FLOOR		WALL					CEILING			REFERENCE DWG.		
			TYPE	FLOORING	TYPE	NORTH	EAST	SOUTH	WEST	BASE	TYPE	FINISH	HEIGHT	FLOOR PLAN	INTERIOR ELEVATIONS
MBR PROCESS	101	PUMP ROOM	CONC	EX	CONC	P	P	P	P	N	CONC	P	UES		
	102	BLOWER ROOM	CONC	EX	CMU	P	P	P	P	N	CONC	P	UES		
	103	ELECTRICAL ROOM	CONC	EX	GB	P	P	P	P	RB	GB	P	12'-0"		
	104	SODIUM HYPOCHLORITE FEED ROOM	CONC	EX	CMU	P	P	P	P	N	AT	P	12'-0"		
	105	CITRIC ACID FEED ROOM	CONC	PF	CMU	P	P	P	P	N	AT	P	12'-0"		
CHLORINE	101	STORAGE AREA	CONC	EX	CMU	P	P	P	P	N	CONC	P	UES		
ADMIN	101	TRAINING ROOM	CONC	VT	GB	P	P	P	P	RB	AT		9'-0"		
	102	MEN'S RESTROOM	CONC	CT	CMU,P	P	P	P	P	RB	AT		9'-0"		
	103	WOMEN'S RESTROOM	CONC	CT	TB	CT,P	CT,P	CT,P	CT,P	CT	AT		9'-0"		
	104	IT CLOSET	CONC	VT	GB	P	P	P	P	RB	AT		9'-0"		
	105	BREAKROOM	CONC	VT	GB	P	P	P	P	RB	AT		9'-0"		
	106	TECHNICIAN'S OFFICE	CONC	C	CMU,P	P	P	P	P	RB	AT		9'-0"		
	107	LEAD TECHNICIAN'S OFFICE	CONC	C	GB,P	P	P	P	P	RB	AT		9'-0"		
	108	FUTURE ADMINISTRATION ASSISTANT	CONC	C	GB,P	P	P	P	P	RB	AT		9'-0"		
	109	CONFERENCE ROOM	CONC	C	GB,P	P	P	P	P	RB	AT		9'-0"		
	110	ASSISTANT MAINTENANCE MANAGER'S OFFICE	CONC	C	GB,P	P	P	P	P	RB	AT		9'-0"		
	111	MAINTENANCE MANAGER'S OFFICE	CONC	C	GB,P	P	P	P	P	RB	AT		9'-0"		
	112	CORRIDOR	CONC	VT	GB	P	P	P	P	RB	AT		9'-0"		

LIST OF ABBREVIATIONS:
 CONC = CONCRETE
 CMU = EXPOSED CONC BLOCK
 CT = CERAMIC TILE
 VT = VINYL TILE
 C = CARPET
 P = PAINT
 AP = ACOUSTICAL PANELS
 GB = GYPSUM BOARD
 TB = TILE BACKER BOARD
 QT = QUARRY TILE
 AT = SUSPENDED ACOUSTIC TILE
 PF = EPOXY FLOOR
 RB = RUBBER BASE
 PLY = T1-11 PLYWOOD
 WD = WOOD
 N = NONE
 EX = EXPOSED
 UES = UNDERSIDE OF EXPOSED STRUCTURE



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REGISTERED PROFESSIONAL ENGINEER
 NO. 8246
 DAVID S. MORRIS

PROJECT NUMBER:	DATE:
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DSGN: DSM	DATE:
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BUILDING SCHEDULES AND DETAILS

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