# NEW BASEBALL FIELD RESTROOMS FOR ST. CLAIR COUNTY HIGH SCHOOL

16700 US HWY 411, ODENVILLE, ALABAMA 35120 ST. CLAIR COUNTY BOARD OF EDUCATION

ST. CLAIR COUNTY BOARD OF EDUCATION

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410 ROY DRIVE

ASHVILLE, ALABAMA 35953

LATHAN ASSOCIATES ARCHITECTS, P.C. ARCHITECT

300 CHASE PARK SOUTH

SUITE 200

HOOVER, ALABAMA 35244

EMAIL: RFI@LATHANASSOCIATES.COM

CIVIL CCI PLANNING & ENGINEERING

3528 VANN ROAD

SUITE 105 BIRMINGHAM, ALABAMA 35235-3271

DEWBERRY ENGINEERS, INC. MECHANICAL /

PLUMBING RIVERCHASE OFFICE PLAZA #2

SUITE 205

HOOVER, ALABAMA 35244

STRUCTURAL STRUCTURAL DESIGN GROUP, INC. 300 CHASE PARK SOUTH

SUITE125

HOOVER, ALABAMA 35244

**ELECTRICAL** STEWART ENGINEERING, INC.

P.O. BOX 2233

ANNISTON, ALABAMA 36202

# DRAWING INDEX (SET - 25 TOTAL SHEETS)

**GENERAL** 

(2 SHEETS)

(3 SHEETS)

(7 SHEETS)

- TITLE AND INDEX - LIFE SAFETY PLAN

**CIVIL DRAWINGS** 

- LAYOUT PLAN C-1.0

- GRADING, STORM DRAINAGE & UTILITIES - SURVEY FROM ARRINGTON

(FOR INFORMATION ONLY)

#### ARCHITECTURAL DRAWINGS (7 SHEETS)

- FLOOR PLAN **A**1

- ROOF PLAN, DETAILS, AND LEGENDS

- DOOR SCHEDULE AND DETAILS

- BUILDING ELEVATIONS AND SECTIONS

- WALL SECTIONS

- ENLARGED TOILET PLANS, INTERIOR **ELEVATIONS AND DETAILS** 

- REFLECTED CEILING PLAN, FINISH FLOOR PLANS, DETAILS, LEGENDS, AND SCHEDULES

# **PLUMBING DRAWINGS**

(2 SHEETS)

- PLUMBING SCHEDULES AND NOTES

- PLUMBING FLOOR PLANS P1.0

# **MECHANICAL DRAWINGS**

(3 SHEETS)

- MECHANICAL LEGEND AND SCHEDULES - MECHANICAL DETAILS AND CONTROLS

- MECHANICAL FLOOR PLANS, OSA & ASHRAE CALCULATIONS

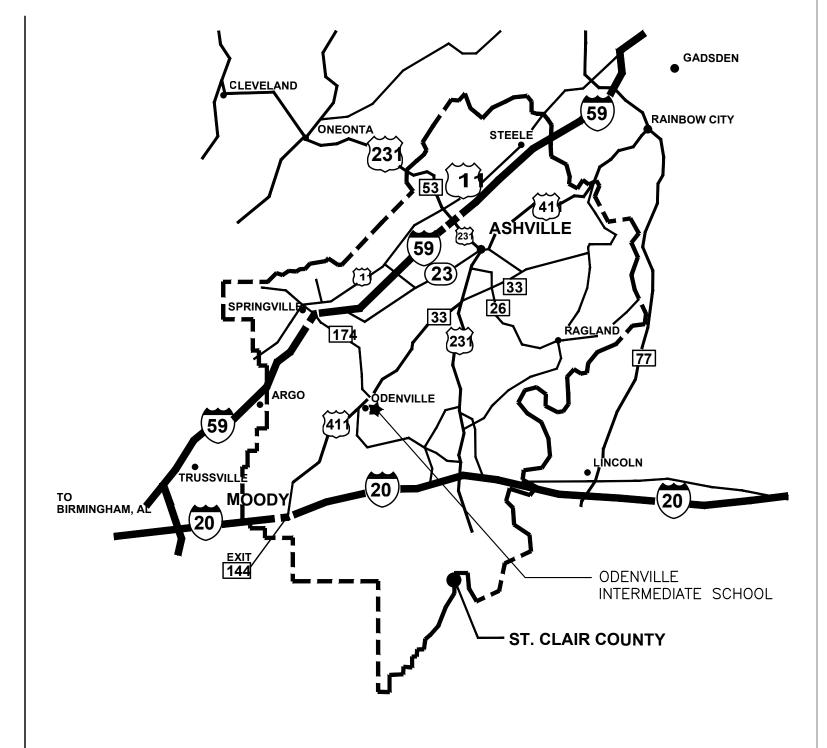
# **ELECTRICAL DRAWINGS**

(1 SHEETS)

- SCHEDULES, SYMBOLS, AND NOTES

# 280 231 — ST. CLAIR COUNTY, ALABAMA









- GENERAL NOTES

- TYPICAL DETAILS

- TYPICAL DETAILS

- FOUNDATION PLAN

- ROOF FRAMING PLAN

- SECTIONS AND DETAILS

**S3.1** - SECTIONS AND DETAILS

JOB NO. **25-07** 

SHEET NO:

LATHAN

ARCHITECTS

ST. CLA 16700 US HWY. ST. CLAIR COUI

No. 3365

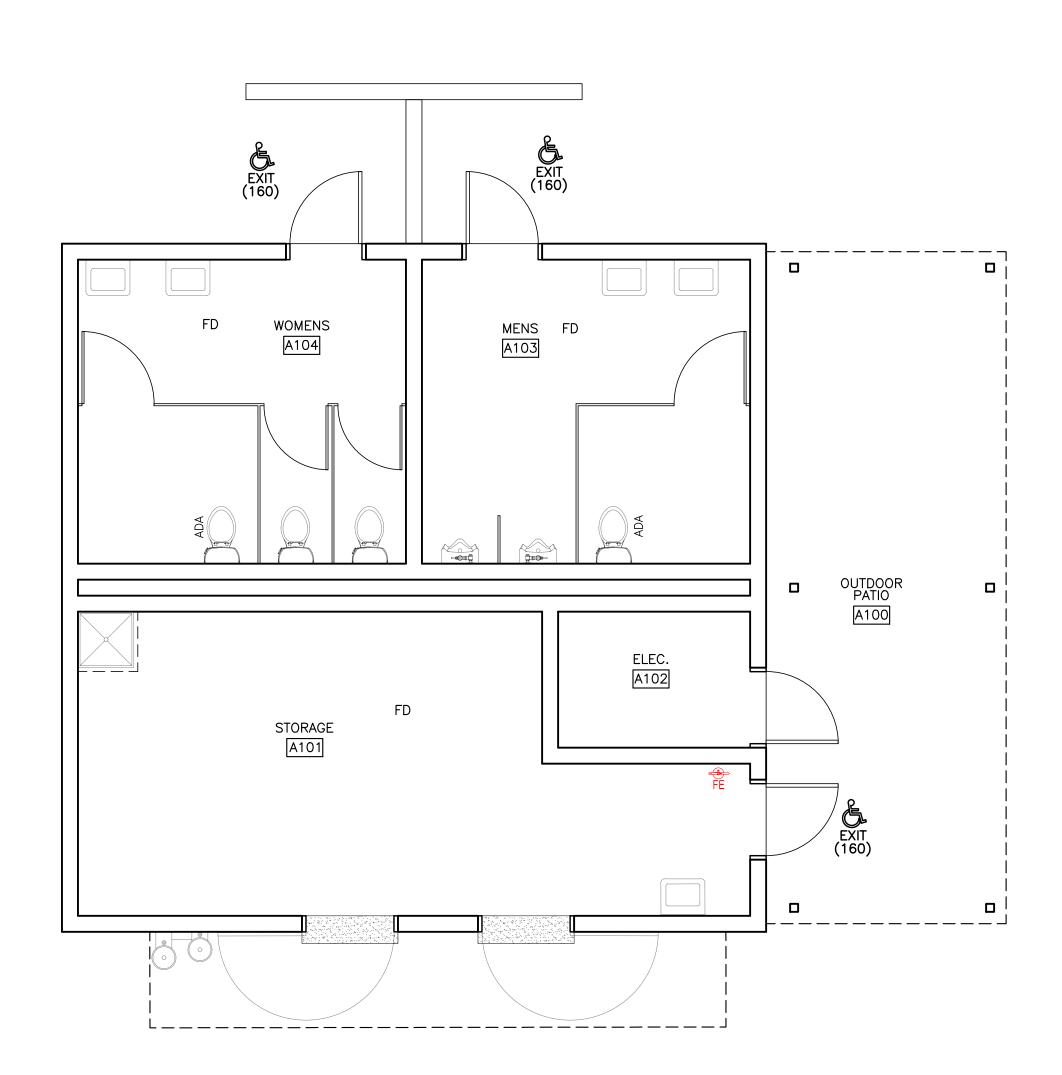
SHEET TITLE:

TITLE AND INDEX

PROJ. MGR.: R. VERNON

DATE: APRIL, 15 2025

DRAWN: K. RENTA



	1	WAILING	CLOSETS			LAVAT	ORIES		FOUNTA
LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO
5.1	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.10	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.10	1/40 FIRST 80 1/80 EXCEED 80.	.06	1/40 FIRST 80 1/80 EXCEED 80.	.06	1/100
)		.10		.10		.06		.06	
		3		3		2		2	
	5.1	REMAINDER EXCEEDING 50.	REMAINDER EXCEEDING 50.	REMAINDER EXCEEDING 50.	REMAINDER EXCEEDING 50.  .10  REMAINDER EXCEEDING 50.	REMAINDER EXCEEDING 50.  REMAINDER EXCEEDING 50.  EXCEED 80.	EXCEEDING 50. EXCEEDING 5010 .06	REMAINDER EXCEEDING 50. REMAINDER EXCEED 80.	EXCEEDING 50. EXCEEDING 5010 .06 .06

2021 IBC POST RENOV BUILDIN	'ATION AND AI G DATA	DDITION
OCCUPANCY CLASSIFICATION:	GROUP B	
TYPE OF CONSTRUCTION:	GROUP B - T	YPE VB (NS)
BUILDING AREA:	765 S.F	:
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:	ALLOWABLE STORIES: 2	ACTUAL STORIES:
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: NS	9,000 S.F.
TABLE 601	CONSTRUCTION TYPE:	VB
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	STRUCTURAL FRAME:	0
TON BOILDING ELEMENTO.	BEARING WALLS:	
		EXTERIOR:
		INTERIOR:
	NONBEARING WALLS:	-
		EXTERIOR: S
		INTERIOR:
	FLOOR CONSTRUCTION	N: 0
	ROOF CONSTRUCTION:	. 0
TABLE 705.5	OCCUPANCY:	GROUP A3 AND
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS:	SEPARATION DISTANCE	
TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING PARTITIONS AND OPENING PROTECTIVES	GROUP B UNSPRINKLERED	0

WALL TYPE LEGEND

SERVICE SINKS

ALL

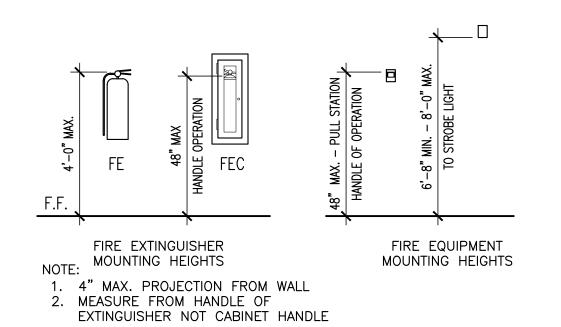
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	2 111 111 111
LIFE SAFI	ETY NOTES
FIRE EXTINGUISHER AND (PROVIDE FIRE RATED CA	CABINET ABINETS IN RATED WALLS.)
FIRE EXTINGUISHER	ACCESSIBLE
K-TYPE FIRE EXTINGUISHER	EXIT——EXIT (320)——EXIT CAPACITY

EXIT SIGN
DIRECTION EXTEND AND KEY ALL RATED WALLS TO SHAFT WALL SYSTEM, AND/OR BOTTOM OF ROOF ASSEMBLY STENCIL LABEL ALL RATED WALLS & DRAFT STOPS ABOVE CEILING EACH SIDE @ 20'-0" O.C. MAX.

ALL RATED DOORS AND FRAMES TO BE LABELED WITH EMBOSSED LABELS INDICATING RATING IN MINUTES

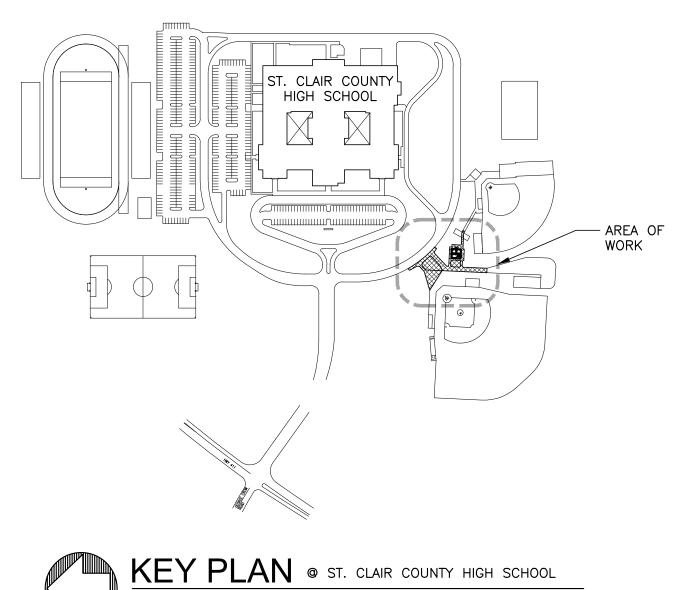
PROVIDE FOAM FILL INSULATION AS SPECIFIED IN ALL WALLS BETWEEN TOILETS AND CLASSROOMS. HE - HORIZONTAL EXIT **XHE - EXISTING HORIZONTAL EXIT** FB - FIRE BARRIER XFB - EXISTING FIRE BARRIER FP - FIRE PARTITION XFP - EXISTING FIRE PARTITION FW - FIRE WALL XFW - EXISTING FIRE WALL

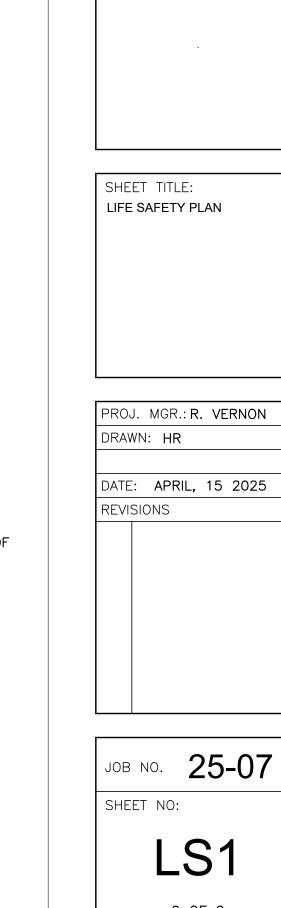
# 1 LIFE SAFETY PLAN SCALE: 1/4" = 1'-0"



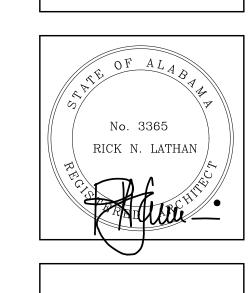
# MOUNTING HEIGHTS

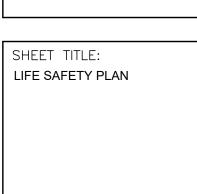
SCALE: 3/8" = 1'-0"





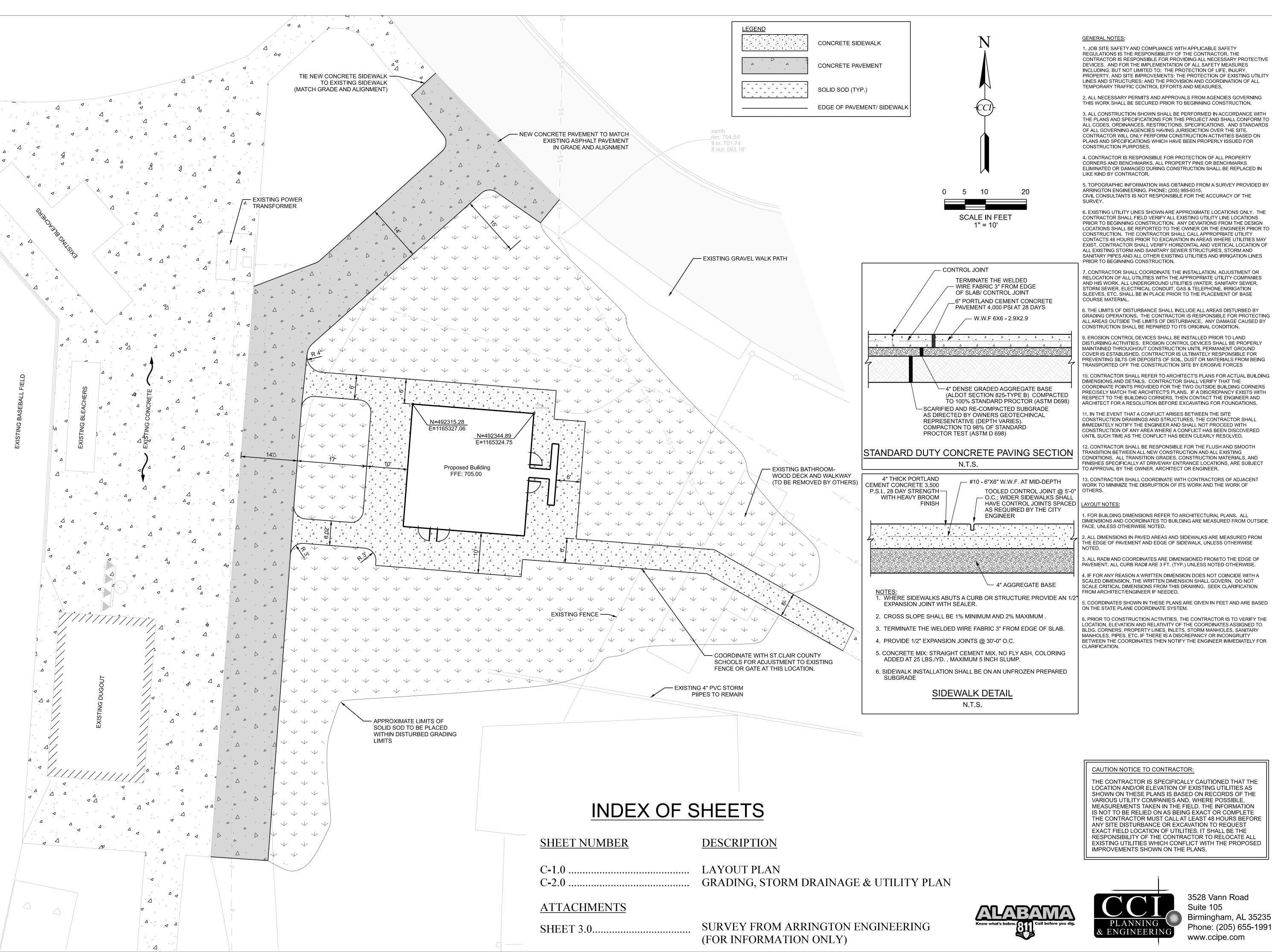






PRO	J. MGR.: R. VERNON
DRAV	VN: HR
DATE	: APRIL, 15 2025
REVIS	SIONS

LS1





SHEET TITLE:

LAYOUT PLAN

PROJ. MGR.: R. VERNON

DATE: 04/17/2025

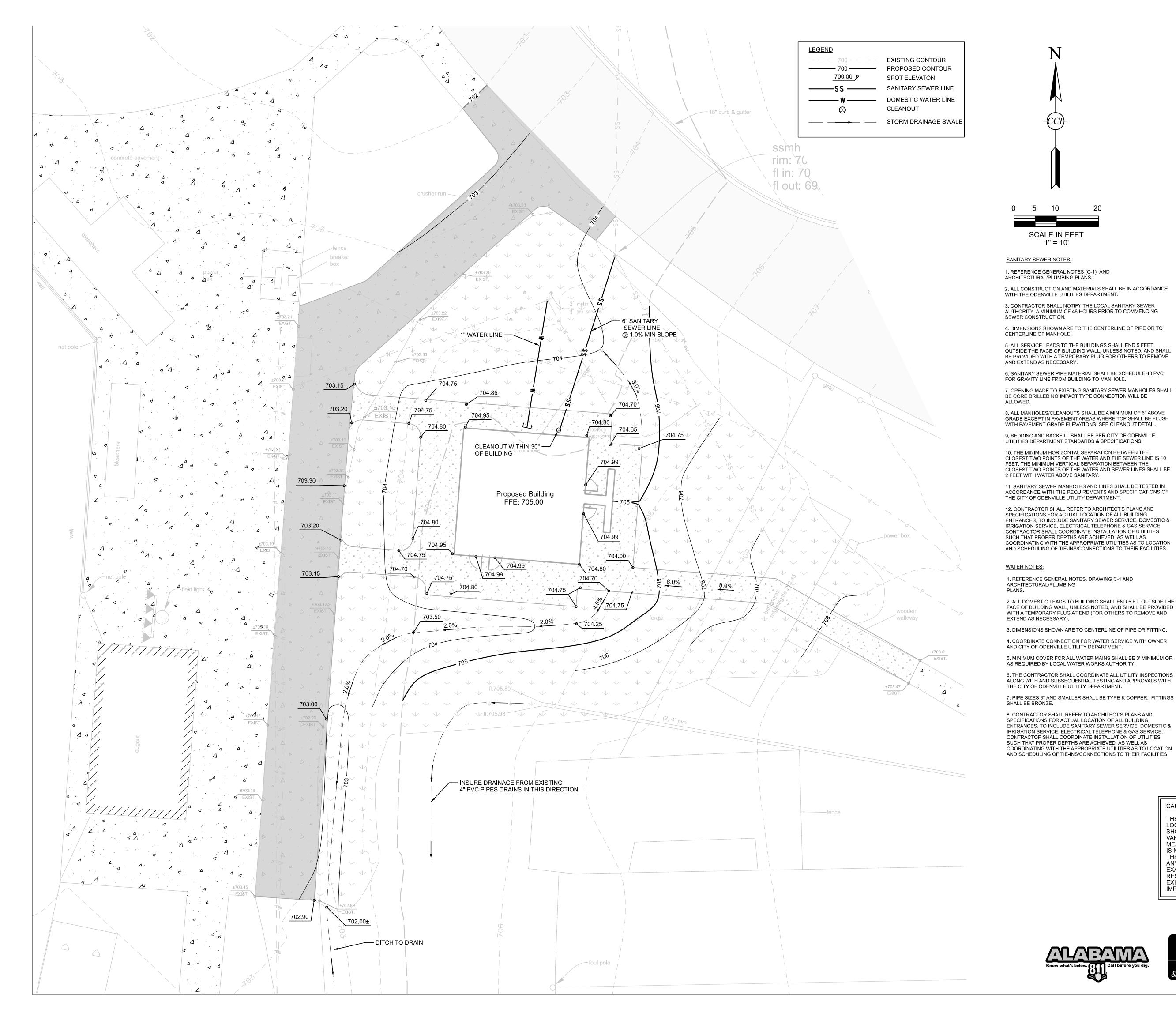
REVISIONS

JOB NO. **25-07** 

SHEET NO:

3528 Vann Road Suite 105 Birmingham, AL 35235 Phone: (205) 655-1991

www.ccipe.com





1. REFERENCE GENERAL NOTES- DRAWING C-1.0

2. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. ANY CLEARING REQUIRED FOR THIS CONSTRUCTION SHALL BE INCIDENTAL TO THE OVERALL

3. ANY GRADED OR DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL WITH SOLID SOD.

4. GRADES SHOWN ARE FINISHED PAVEMENT & TOP OF GRASS GRADE ELEVATIONS. REFERENCE ARCHITECTURAL PLANS TO DETERMINE BUILDING SUBGRADE ELEVATIONS. FOR SUBGRADE ELEVATIONS IN PAVED AND SIDEWALK AREAS, REFERENCE SECTIONS & DETAILS.

5. CONTRACTOR SHALL MAINTAIN POSITIVE GRADE FALL AWAY BUILDING AND ALL DOORS. DO NOT GRADE AREAS AROUND THE ENTIRE BUILDING TO ALLOW STORMWATER TO FLOW TOWARD THE

ARCHITECTURAL PLAN FOR SUBGRADE ELEVATION.

BUILDINGS OR DOORS 6. SITE CONTRACTOR SHALL PROVIDE SUBGRADE FOR BUILDING PAD PER ARCHITECTURAL SPECIFICATIONS. REFERENCE

7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MUNICIPALITY HAVING JURISDICTION OVER

8. THE LOCATION AND ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, SHOULD NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES AND UTILITIES PRIOR TO CONSTRUCTION. ANY DEVIATIONS FROM PLAN INFORMATION SHOULD BE DISCUSSED WITH ENGINEER AND OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL CALL APPROPRIATE UTILITY CONTACTS 48 HOURS PRIOR TO EXCAVATION IN AREAS WHERE UTILITIES MAY EXIST.

9. ANY EXCESS MATERIAL AT THE END OF THE GRADING OPERATIONS, SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER OFF-SITE OR ON-SITE AS APPROVED BY OWNER OR OWNER'S REPRESENTATIVE.

10. NO SLOPES SHALL BE STEEPER THAN 3-HORIZONTAL TO 1-VERTICAL, UNLESS OTHERWISE NOTED ON THE PLAN OR APPROVED BY ENGINEER.

11. ALL TOPSOIL REQUIRED FOR THE SITE SHALL BE OBTAINED FROM THE SITE BEFORE ANY IS BORROWED FROM OFF SITE. CONTRACTOR IS TO COORDINATE ON SITE TOPSOIL ACQUISITION AND STOCK PILES.

12. ALL SPOT ELEVATIONS ARE AT EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

13. PRIOR TO PLACING FILL, THE EXISTING TREES, BRUSH, VEGETATION, TOPSOIL, SURFACE DEBRIS, AND ANY OTHER DELETERIOUS MATERIAL SHOULD BE REMOVED. AFTER CLEARING AND GRUBBING ANY REQUIRED CUTS TO THE FINISHED SUBGRADE SHOULD BE PERFORMED. AFTER EXCAVATION, THE EXPOSED SUBGRADE SHOULD BE PROOF-ROLLED WITH AN ADEQUATELY LOADED VEHICLE SUCH AS A FULLY LOADED TANDEM-AXLE DUMP TRUCK. THE PROOF-ROLLING SHOULD BE PERFORMED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER. AREAS EXCESSIVELY DEFLECTING UNDER THE PROOF-ROLL SHOULD BE DELINEATED AND SUBSEQUENTLY ADDRESSED BY THE GEOTECHNICAL ENGINEER. REMEDIATION FOR SOILS FAILING THE PROOF-ROLL WILL BE HIGHLY DEPENDENT ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION BUT MAY INCLUDE UNDERCUTTING OR MOISTURE CONDITIONING AND RE-

14. ALL UTILITY TRENCHES IN THE BUILDING AND PARKING/DRIVE AREAS MUST BE BACKFILLED AND COMPACTED IN THE MANNER SPECIFIED FOR STRUCTURAL FILL. REDUCE LIFT THICKNESS TO 4 TO 6 INCHES (LOOSE MEASURE), IN ORDER TO ACHIEVE COMPACTION USING HAND OPERATED EQUIPMENT, DENSITY TEST TO BE PERFORMED AT LEAST EVERY 200 FT. ALONG THE TRENCH FOR EACH LIFT.

15. CONTRACTOR (OR OWNER) SHALL PROVIDE EARTHWORK TESTING AS REQUÌRED.

POWER, TELEPHONE & GAS NOTES

COMPACTION.

1. REFERENCE GEN. NOTES, DRAWING C-1

2. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR INFORMATION REGARDING POWER, TELEPHONE & GAS SERVICES (IF REQUIRED).

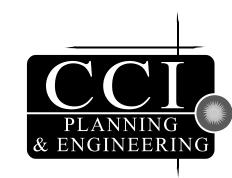
3. CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL BUILDING ENTRANCES, TO INCLUDE SANITARY SEWER SERVICE, DOMESTIC & IRRIGATION SERVICE, ELECTRICAL TELEPHONE & GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATIONOF UTILITIES SUCH THAT PROPER DEPTHS ARE ACHIEVED, AS WELL AS COORDINATING WITH THE APPROPIATE UTILITIES AS TO LOCATION AND SCHEDULING

OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.

CAUTION NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE THE CONTRACTOR MUST CALL AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.





3528 Vann Road Suite 105 Birmingham, AL 35235 Phone: (205) 655-1991 www.ccipe.com



SHEET TITLE:

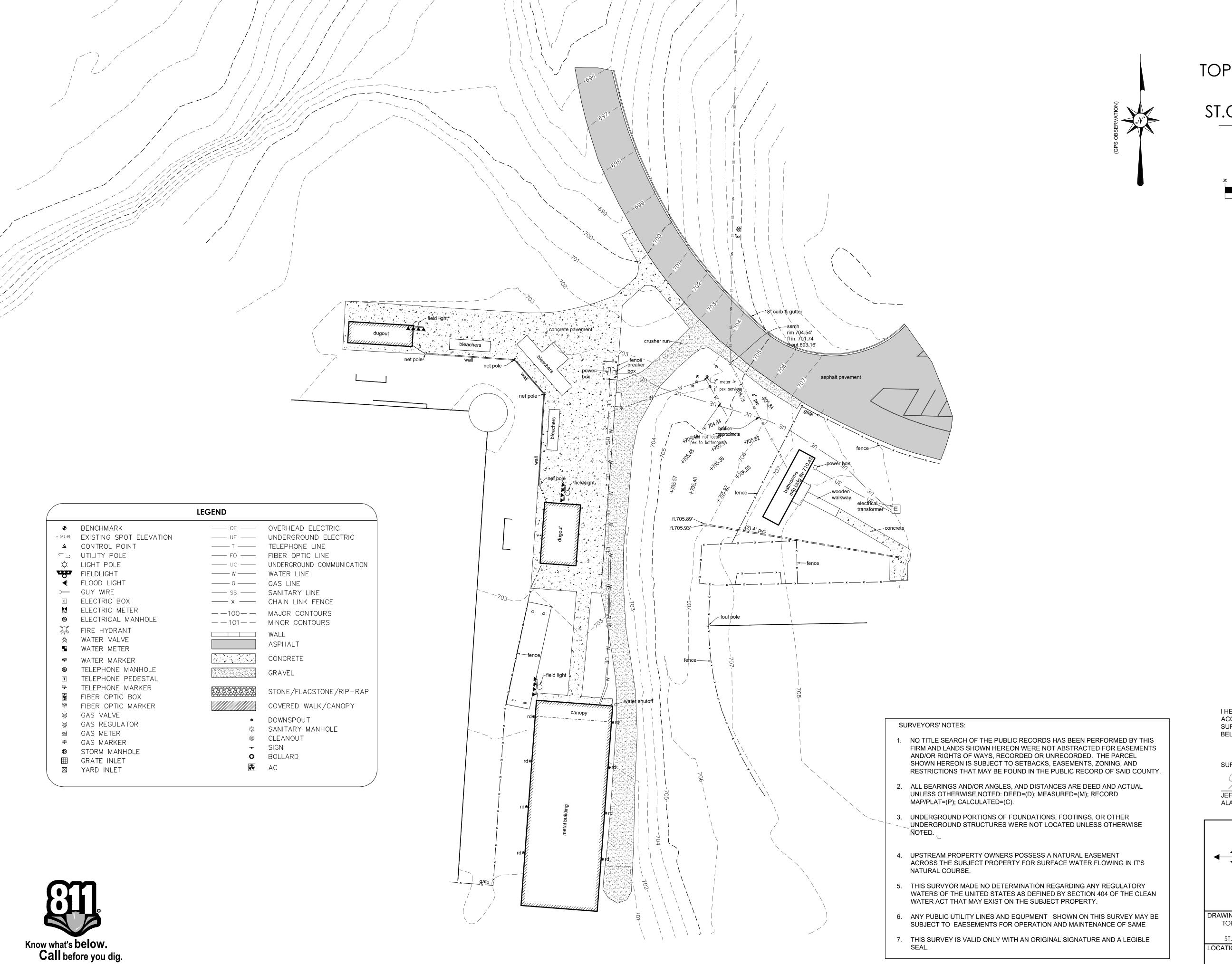
GRADING, STORM **DRAINAGE &** UTILITIES

PROJ. MGR.: R. VERNON DRAWN:

DATE: 04/17/2025

REVISIONS

SHEET NO:

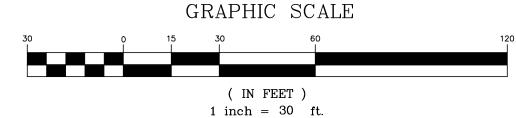


Call 2 working days before digging.

It's the Law!

# TOPOGRAPHIC, UTILITY & EXISTING CONDITIONS SURVEY ST.CLAIR COUNTY HIGH SCHOOL

16700 US HIGHWAY 411, ODENVILLE, AL. 35120



## SURVEY CONTROL

THE BEARINGS AND OR COORDINATES SHOWN ON THIS SURVEY ARE BASED ON ALABAMA STATE PLANE EAST ZONE, GRID NORTH, NAD 83( ADJUSTED 2011). THE VERTICAL DATUM IS NAVD 88 (GEOID 18). ELEVATION AND POSITION WAS OBTAINED FROM R.T.K OBSERVATION USING THE ALDOT CORS NETWORK AS CONTROL.

PREPARED FOR:

ST. CLAIR COUNTY BOARD OF EDUCATION

410 ROY DRIVE

ASHVILLE, AL. 35953

I HEREBY STATE THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND

# SURVEYOR:

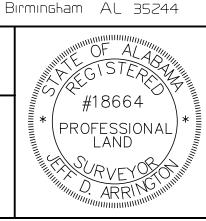
JEFF D. ARRINGTON ALABAMA NO. 18664

3-6-2025 DATE:\_\_\_\_

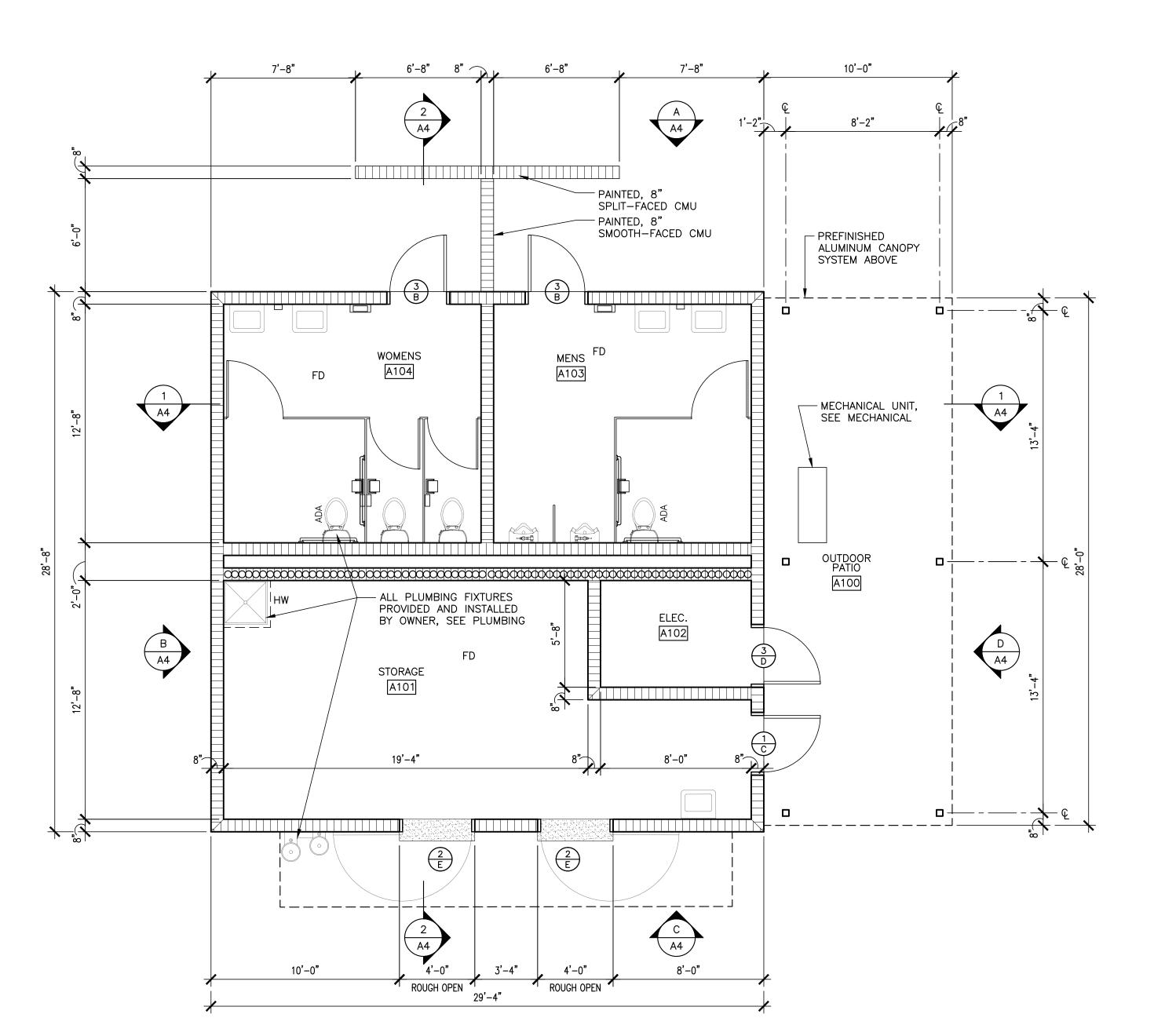


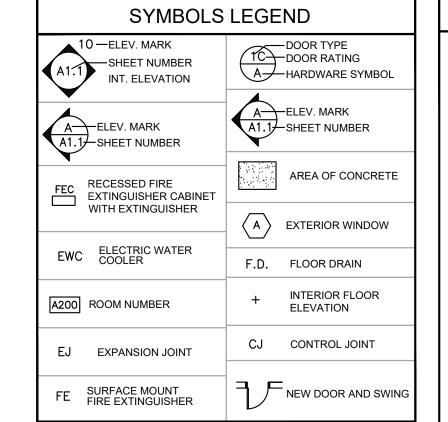
DRAWING TITLE
TOPOGRAPHIC, UTILITY & EXISTING
CONDITIONS SURVEY
ST.CLAIR COUNTY HIGH SCHOOL
LOCATION & DESCRIPTION

16700 US HIGHWAY 411, ODENVILLE, AL. 35120



DRAWN BY	JDA
CHECKED BY:	JDA
DATE:	2-27-2025
SCALE:	1" = 30'
PARTY CHIEF	JJ
PROJECT NO.:	85038
SHEET	1 OF 1





GENE	RAL	TON	ES

- COORDINATE W/ ELECTRICAL AND
   MECHANICAL AND PROVIDE CONCRETE
   EQUIPMENT PAD AS REQUIRED
- SEE CIVIL DRAWINGS FOR CONTINUATION OF SIDEWALKS
- ALL PLAN DIMENSIONS ARE TO FACE OF CMU WALL UNLESS NOTED OTHERWISE
- WINDOWS ARE DIMENSIONED TO THE CENTER LINE
- BUILDING 1/4: 12

  SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR

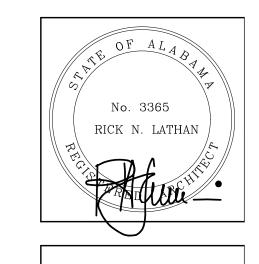
SLOPE ALL SIDEWALKS AWAY FROM THE

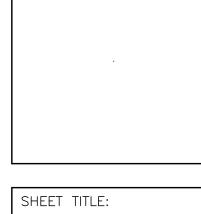
- DRAINS.
- SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS
- 8. CONTRACTOR SHALL PROTECT EXISTING UTILITIES & SYSTEMS TO REMAIN AND CORRECT ANY DAMAGE RESULTING WORK.
- 9. CONTRACTOR TO TAKE GREAT CARE TO NOT DISRUPT DAILY ADJACENT SCHOOL TRAFFIC. COORDINATE ALL AREA/ROAD CLOSURES WITH OWNER.
- 10. CONTRACTOR TO TAKE GREAT CARE TO NOT DISRUPT DAILY ADJACENT SCHOOL UTILITIES. COORDINATE ALL UTILITY OUTAGES WITH OWNER AND ON THE WEEKENDS / AFTER SCHOOL HOURS.
- 11. ALL PLUMBING FIXTURES TO BE PROVIDED AND INSTALLED BY OWNER UNLESS NOTED OTHERWISE

_		
	DOOR PLACE	MENT LEGEND
	18" MIN.	18" MIN.
	FLUSH FRAME	OFFSET FRAME
	EQ EQ	
	CENTERED FRAME	

DOOR F	FIRE RA	ATING LEGEND
DOOR TYPE	(2)	NO RATING
DOOR TYPE + A	(2A)	20 MINUTE RATING
DOOR TYPE + B	(2B)	45 MINUTE RATING
DOOR TYPE + C	(2C)	60 MINUTE RATING

WALL <sup>-</sup>	TYPE LEGEND
CMU WALL	8" CONCRETE MASONRY WALL. SEE PLAN FOR WALL WIDTH CHANGES SEE LIFE SAFETY PLAN FOR FIRE RATING
SOUND ATTENUATION PARTITION	8" CONCRETE MASONRY WALL WITH SOUND ATTENUATION FOAM FILL





FLOOR PLAN

PROJ. MGR.: R. VERNON DRAWN: K. RENTA

DATE: APRIL, 15 2025
REVISIONS

— AREA OF WORK

JOB NO. 25-07

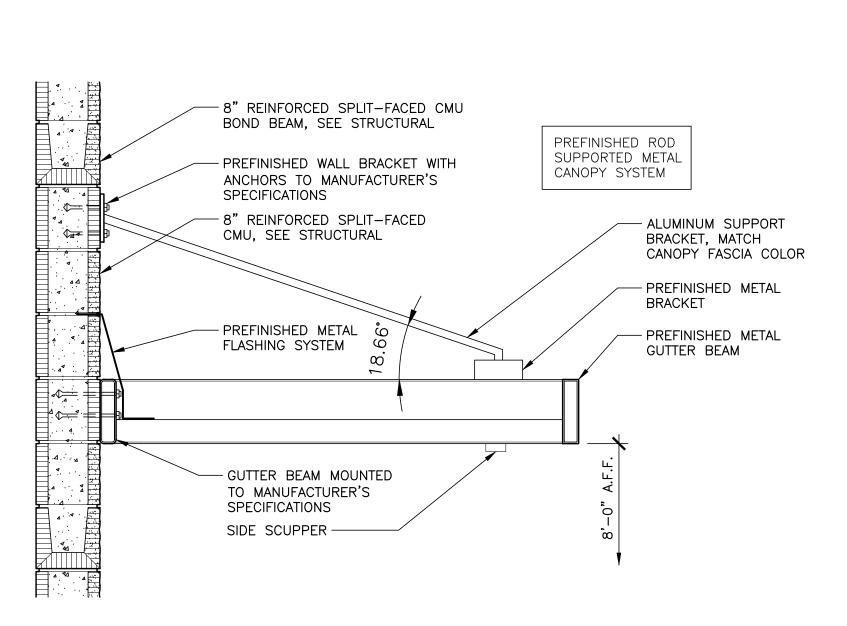
SHEET NO:

А1

1 OF 7

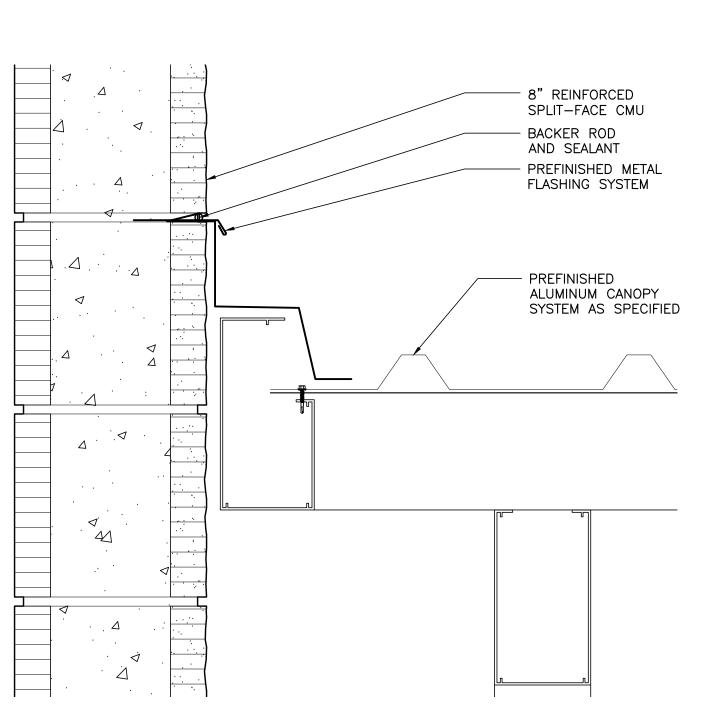
KEY PLAN @ ST. CLAIR COUNTY HIGH SCHOOL



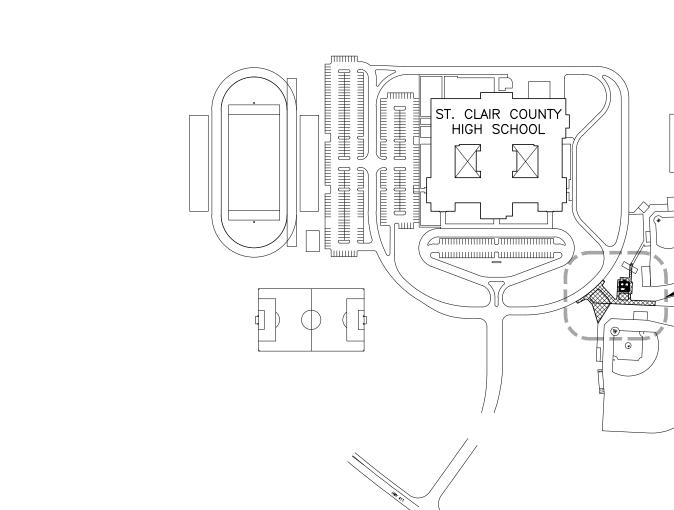


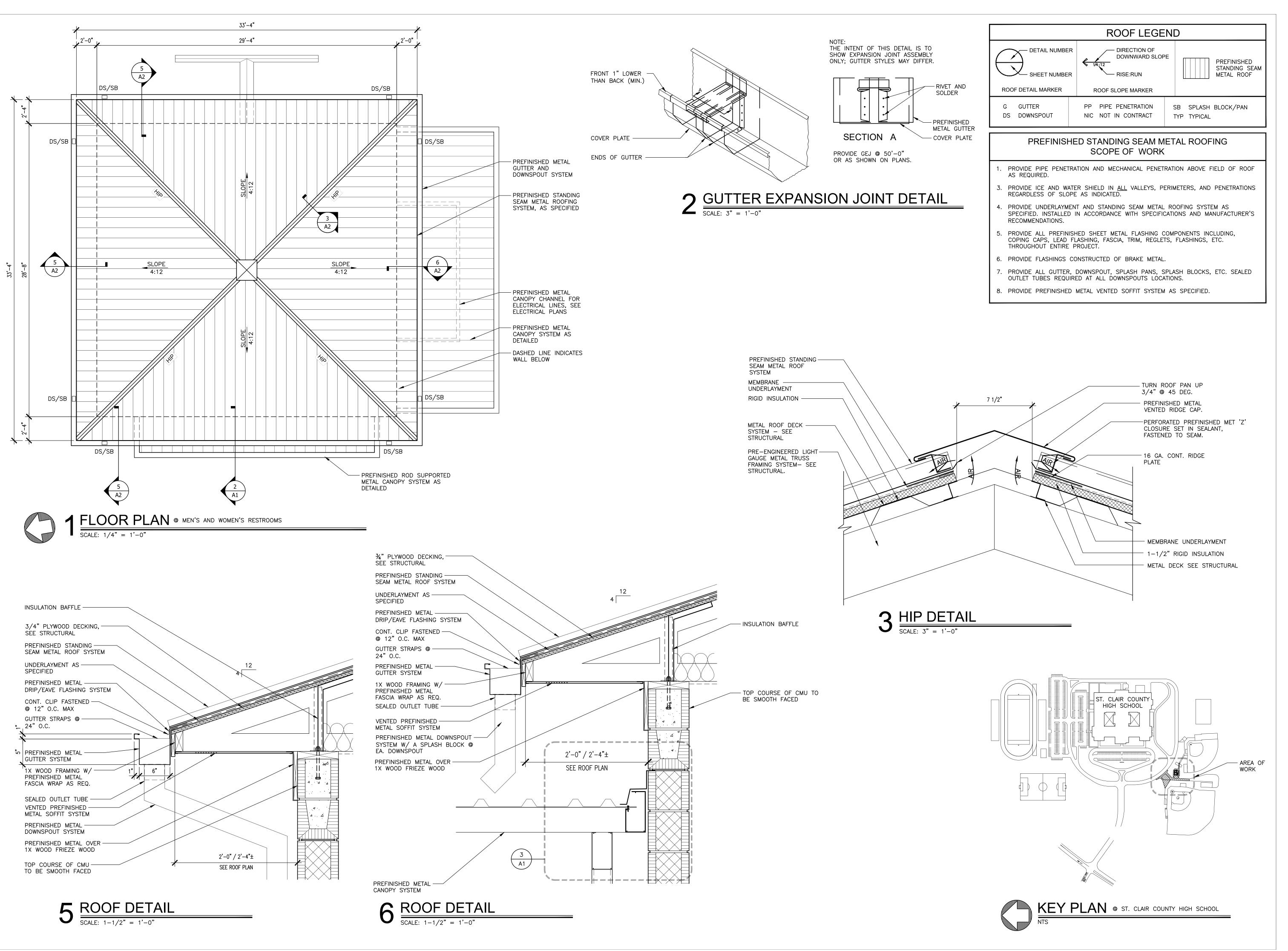
2 CANOPY DETAIL

SCALE: 1" = 1'-0"



3 CANOPY DETAIL







IELD RESTROOMS FOR

RECOUNTY HIGH SCHOOI

I, ODENVILLE, ALABAMA 35120
Y BOARD OF EDUCATION

No. 3365
RICK N. LATHAN

SHEET TITLE: ROOF PLAN, DETAILS, AND LEGENDS

PROJ. MGR.: R. VERNON
DRAWN: K. RENTA

DATE: APRIL, 15 2025

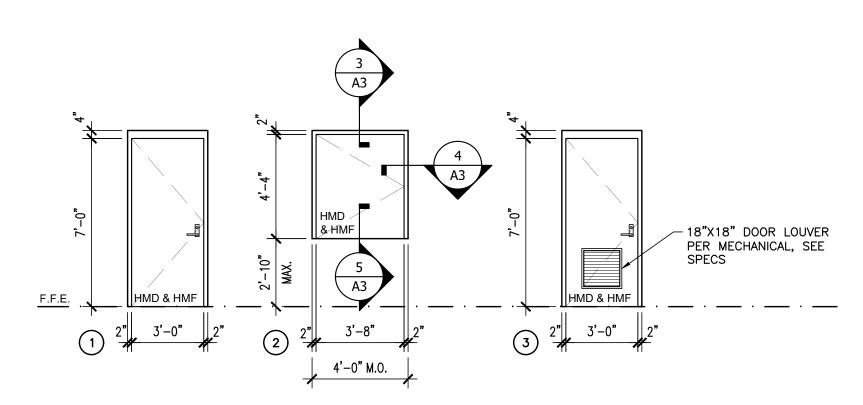
REVISIONS

JOB NO. **25-07** 

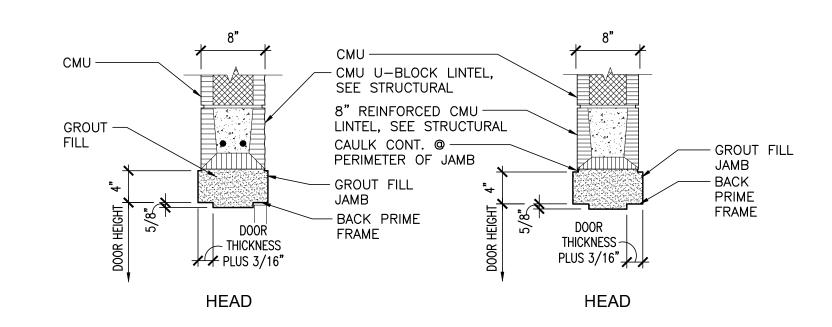
SHEET NO:

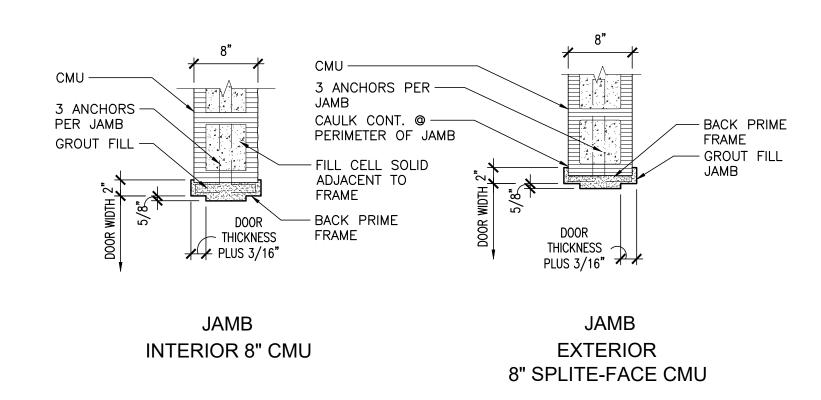
DOOR AN	ID WINDOW LEGEND
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
МНО	MANUAL HOLD OPEN





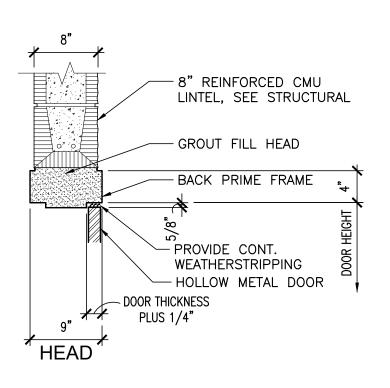
# 1 DOOR SCHEDULE SCALE: 1/4" = 1'-0"



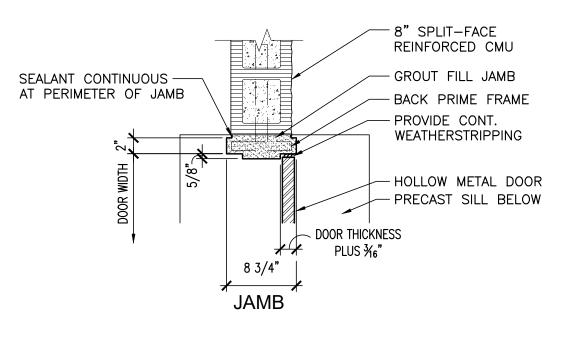


2 HOLLOW METAL FRAME DETAILS

SCALE: 1" = 1'-0"

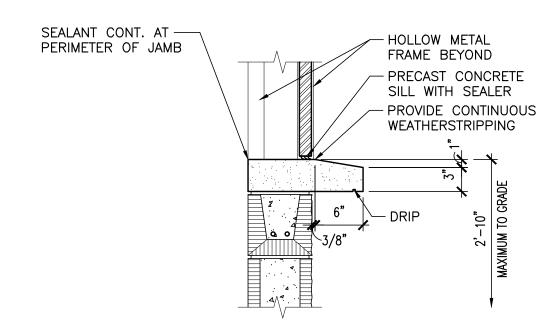


# 3 HEAD DETAIL SCALE: 1" = 1'-0"



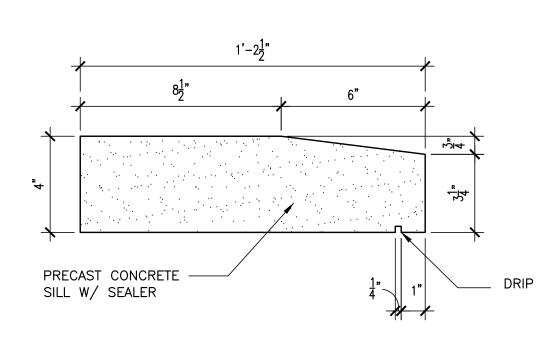
4 JAMB DETAIL

SCALE: 1" = 1'-0"



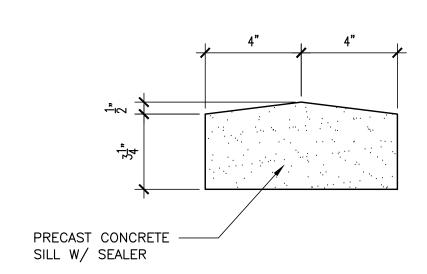
5 SILL DETAIL

SCALE: 1" = 1'-0"



6 PREAST SILL PROFILE

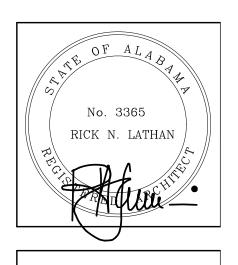
SCALE: 1" = 1'-0"

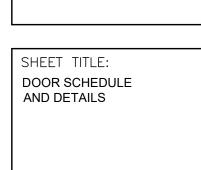


7 PREAST SILL PROFILE

SCALE: 1" = 1'-0"



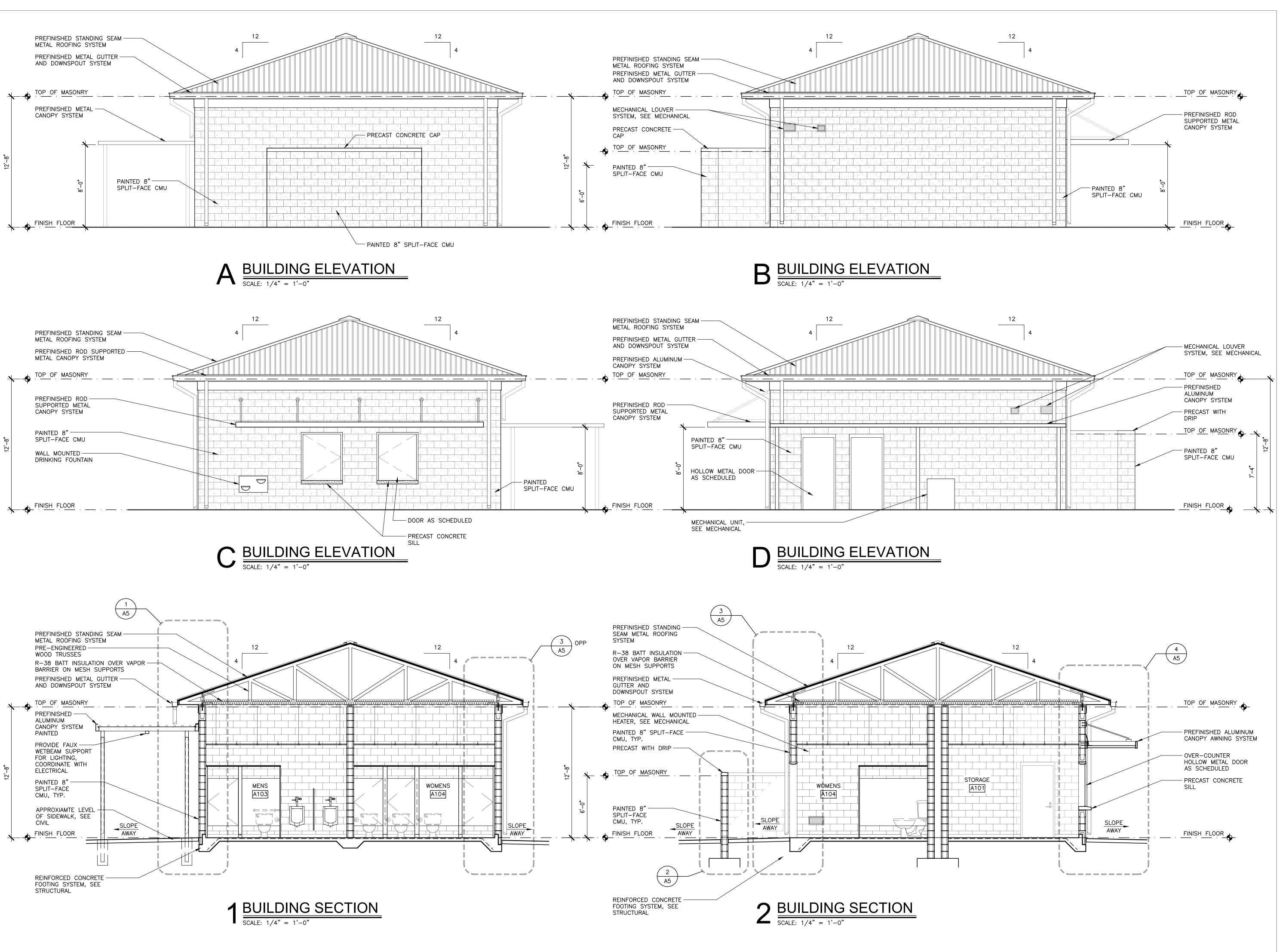




PROJ. MGR.: R. VERNON
DRAWN: K. RENTA
DATE: APRIL, 15 2025
REVISIONS

JOB NO. 25-07
SHEET NO:

A3

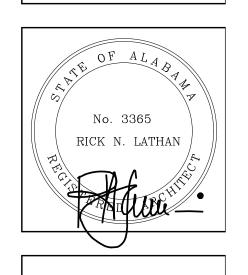




CLAIR COUNTY HIGH SCHOOL

SHWY 411, ODENVILLE, ALABAMA 35120

AIR COUNTY BOARD OF EDUCATION



SHEET TITLE:
BUILDING ELEVATIONS
AND SECTIONS

PROJ. MGR.: R. VERNON
DRAWN: K. RENTA

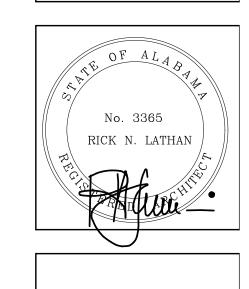
DATE: APRIL, 15 2025

REVISIONS

JOB NO. **25-07**SHEET NO:

A4





SHEET TITLE: WALL SECTIONS

PROJ. MGR.: R. VERNON

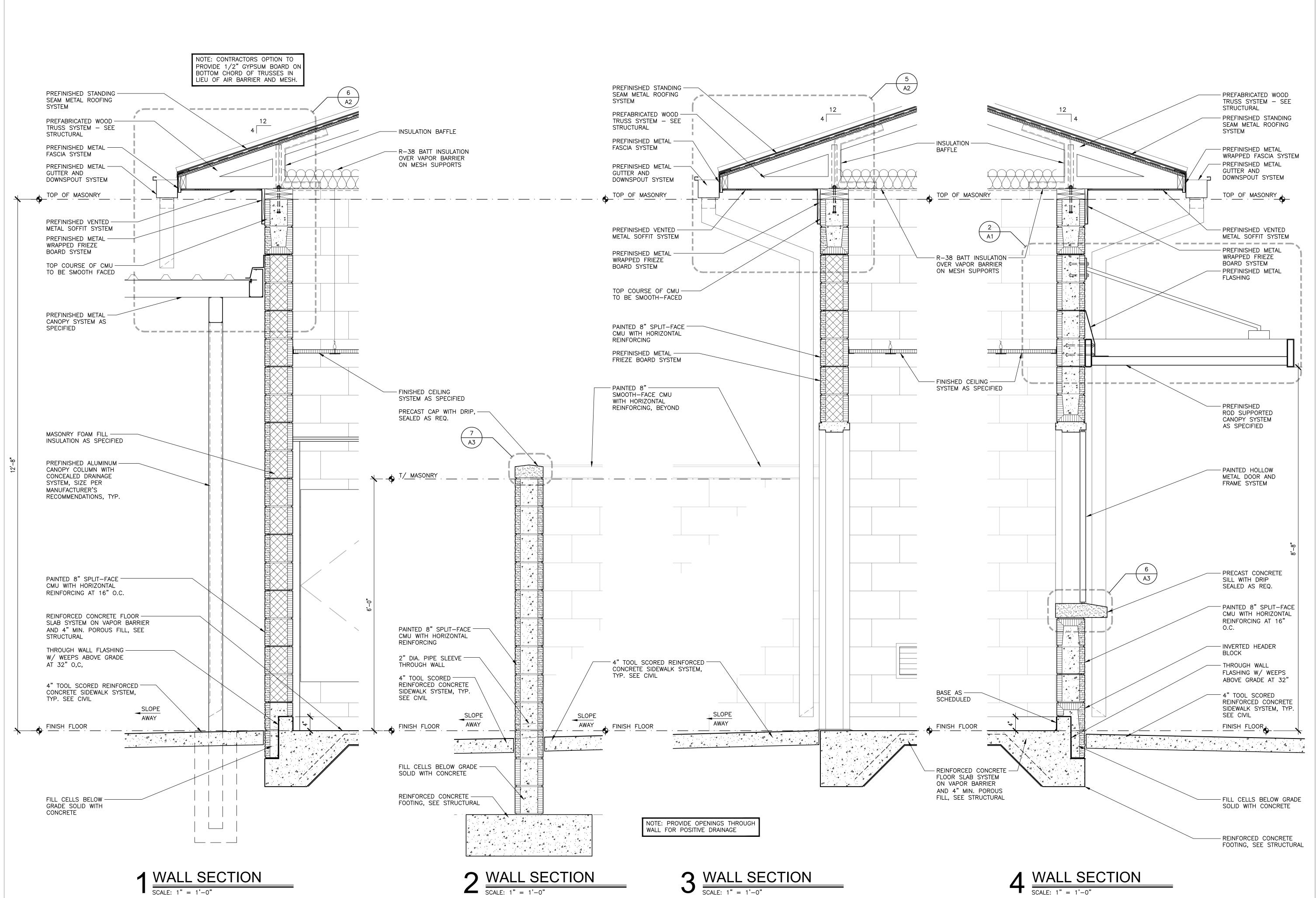
DATE: **APRIL, 15 2025** 

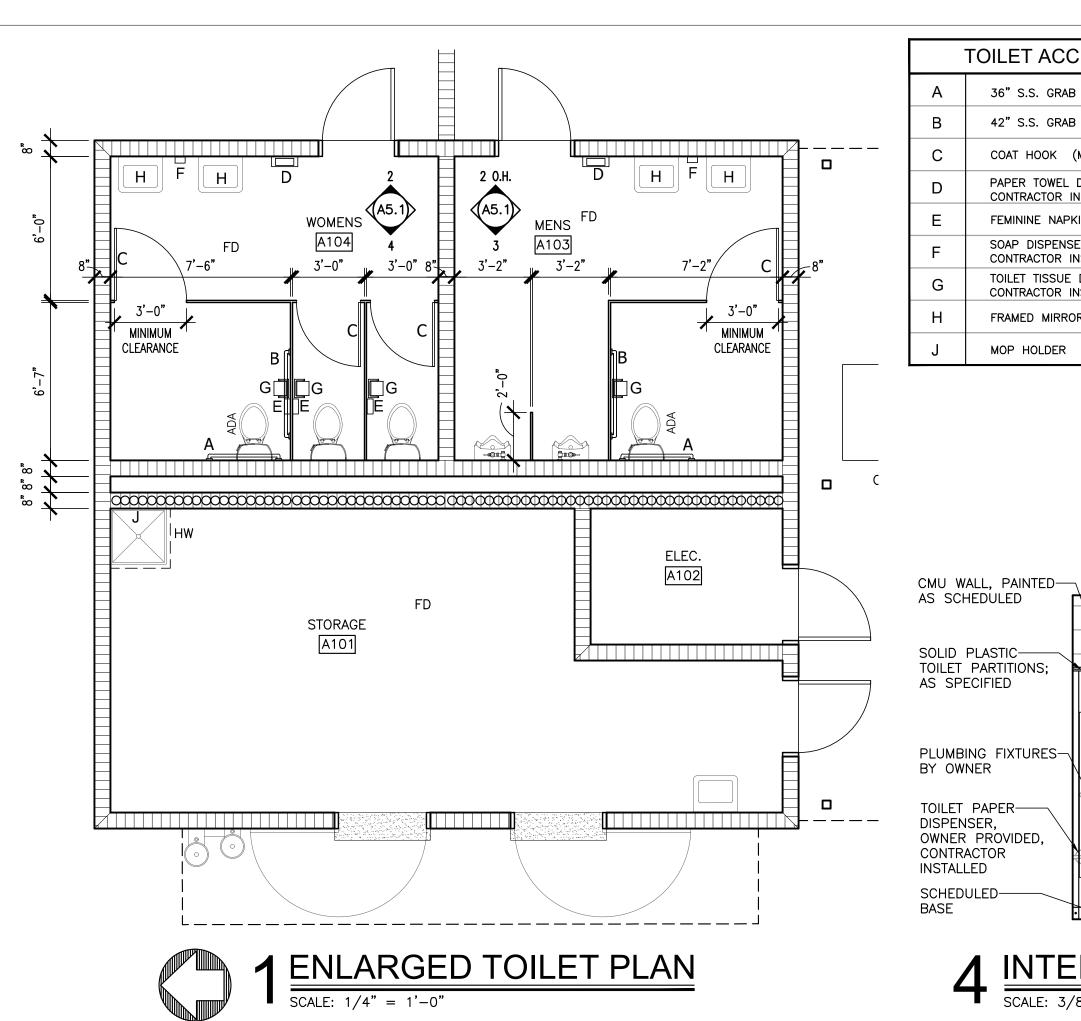
DRAWN: K. RENTA

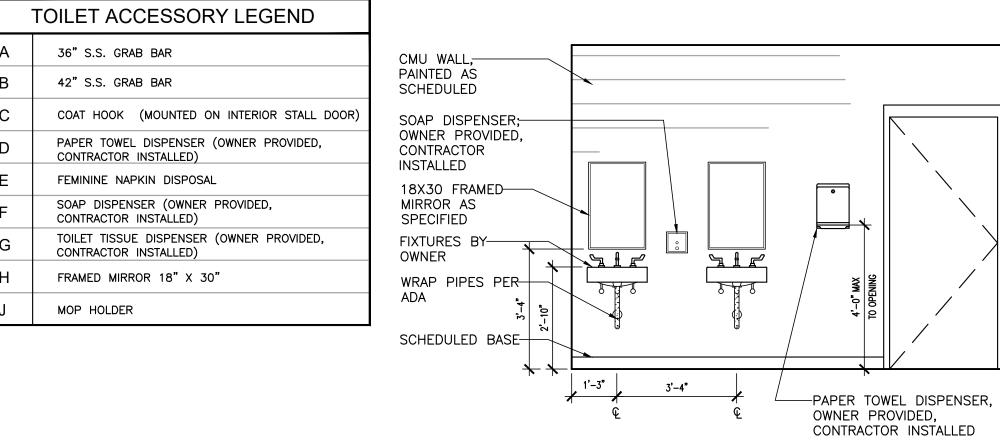
REVISIONS

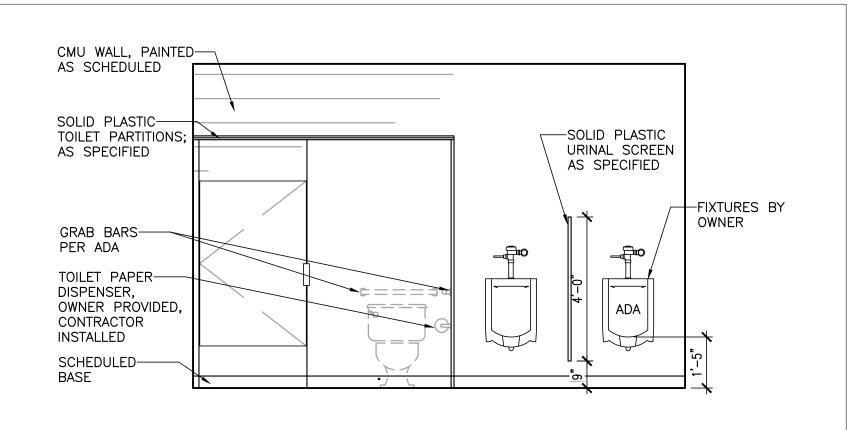
JOB NO. **25-07** SHEET NO: **A5** 

- FILL CELLS BELOW GRADE SOLID WITH CONCRETE - REINFORCED CONCRETE FOOTING, SEE STRUCTURAL 5 OF 7





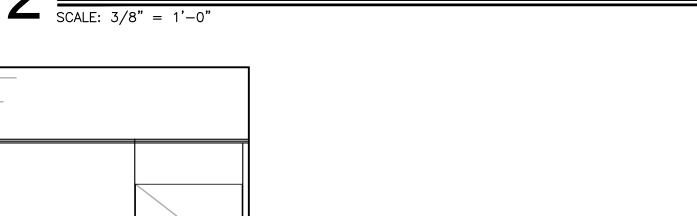


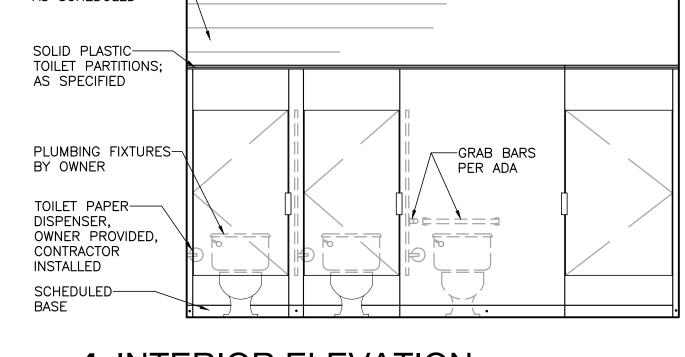


2 INTERIOR ELEVATION @ WOMENS A104 AND MENS A103 (O.H.)

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

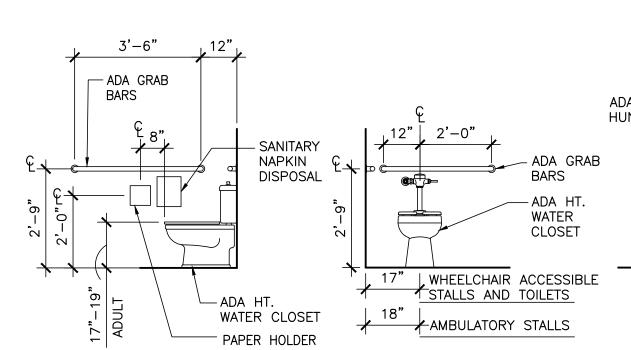
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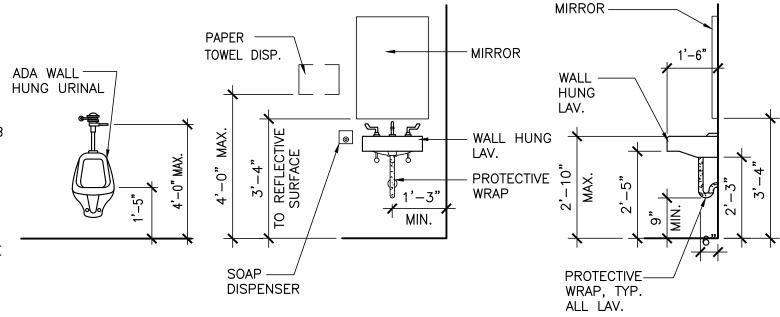


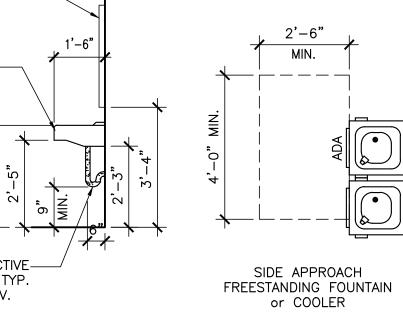
4 INTERIOR ELEVATION © WOMENS A104

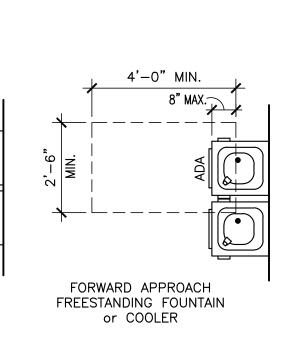
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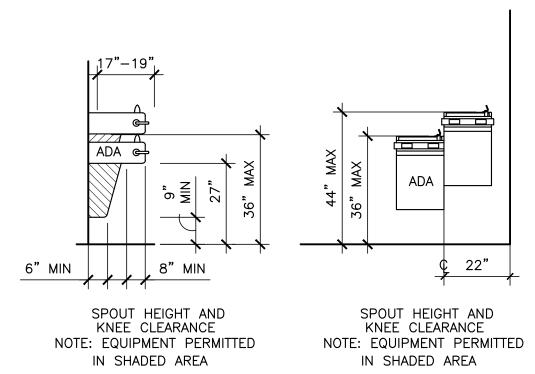






-HOLLOW METAL FRAME, PAINTED

AS SCHEDULED





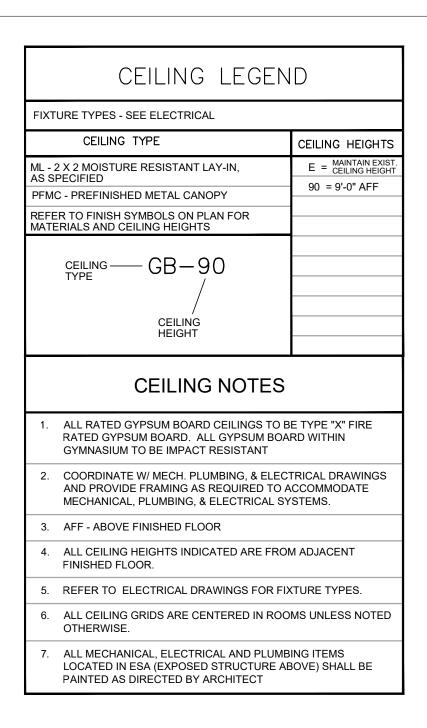
No. 3365 RICK N. LATHAN

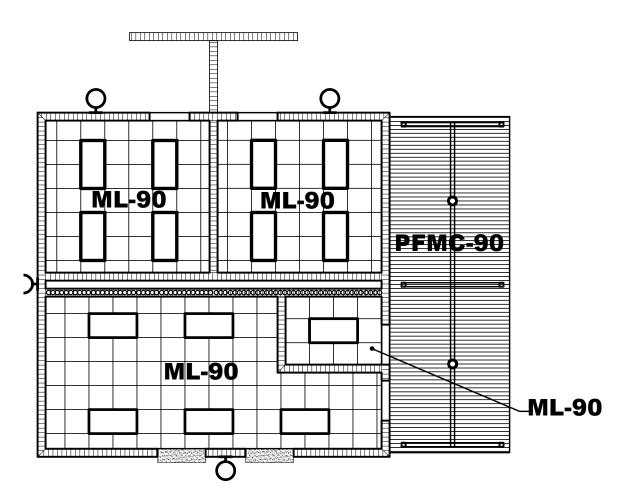
LATHAN ARCHITECTS

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JOB NO. 25-07
SHEET NO:

A6
6 OF 7

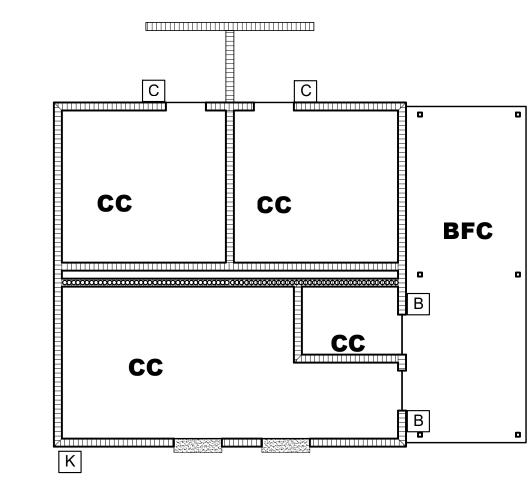




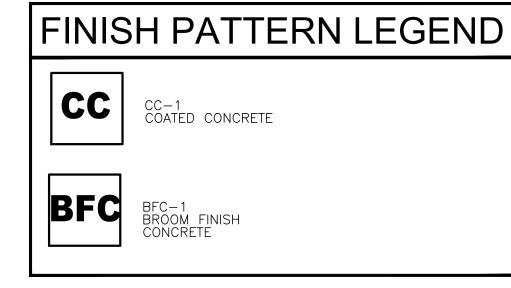
_	
1	REFLECTED CEILING PLAN
I	SCALE: $1/8" = 1'-0"$

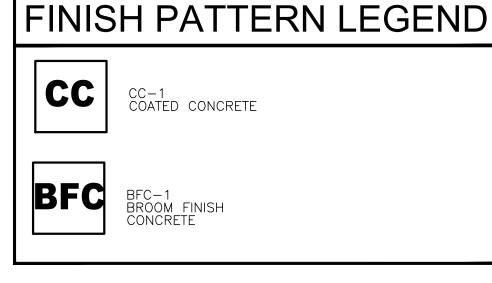
COATED / SEALED CONCRETE					PLASTIC LAMINATE			
ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION	ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION	
СС	SHERWIN WILLIAMS	COLOR: SEE SPEC	SEE FINISH PLAN FOR LOCATION	PL-1	WILSONART	PEARL SOAPSTONE 4886-38	COUNTERTOPS/ SHELVING	
BFC	SEE SPEC	SEE SPEC		PAIN	Γ			
DLIDE				ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION	
RUBBER BASE				PNT-1	SHERWIN WILLIAMS	COLOR: SW 7029 AGREEABLE GRAY	GENERAL WALLS EPOXY AT WET AREA	
RB-1	TARKETT	4" BASE	ALL INTERIOR LOCATIONS	PNT-2	SHERWIN WILLIAMS	COLOR: SW 7053 ADAPTIVE SHADE	GENERAL TRIM EPOXY AT WET AREA	
FINISH	1 ABBREVIA	TION LEGEND		PNT-3	SHERWIN WILLIAMS	COLOR: SW 7007 CEILING BRIGHT WHITE	CEILINGS EPOXY AT WET AREA	
FAB	APF ACOUSTIC PANEL FP FINISH PROFILE STC STAINED CONCRETE FABRIC. GYP GYPSUM BOARD SS SOLID SURFACE AP APPLIED WOOD IC IMPRINTED CONCRETE ST STAIN				FINISH NOTES			
BFC BROOM FINISH LVT LUXURY VINYL TILE TP TACKABLE			P TACKABLE ACOUSTIC PANEL	ALL WALLS TO BE PAINTED PNT -1 UNLESS NOTED OTHERWISE.				
CC COATED CONCRETE PNT PAINT TS		S TACKABLE SURFACE	ALL WALLS LOCATED IN WET AREAS, SHALL HAVE EPOXY BASED PAINT					
CPT CAR CR CHA DP DIGI CWT CER ERB EPO ERF EPO	OWN MOLDING RPET AIR RAIL TAL PANEL RAMIC WALL TILE DXY RESIN BASE DXY RESIN FLOOR TIC CONTROL TILE	PT PORCELAIN TILE VO PTB PORCELAIN TILE BASE VO QT QUARRY TILE W QTB QUARRY TILE BASE W RB RUBBER BASE W RF RUBBER FLOOR W SC SEALED CONCRETE W SDF STUDIO DANCE FLOOR W	CT VINYL COMP. TILE B WOOD BASE C WALLCOVERING D WOOD F WOOD FLOORING P WOOD PANELING	AT WET AREAS WHERE RUBBER BASE IS SCHEDULED TO BE INSTALLED, PROVIDE WATERPROOFING WHERE BASE MEETS FLOOR AS REQUIRED.				
			FINISH SCHEI	OUL F				

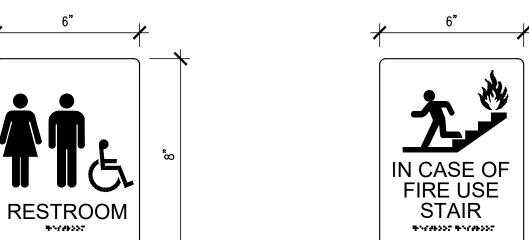
	FINISH SCHEDULE											
NO.	ROOM NAME	FLOOR		MILLV FACE			LS (PRC			DOOR FRAME	CEILING/SOFFIT PAINT	NOTES
A100	OUTDOOR PATIO	BFC-1	NO BASE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A101	CONCESSIONS	CC-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT IN WET AREAS
A102	ELECTRIC	CC-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT IN WET AREAS
A103	MENS	CC-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT IN WET AREAS
A104	WOMENS	CC-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT IN WET AREAS



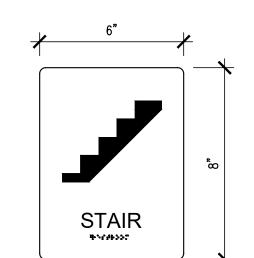












SIGNAGE LEGEND:  A — OFFICES, CLASSROOMS, INSTRUCTIONAL AREAS S B — OTHER INTERIOR DOOR SIGNAGE C — RESTROOM SIGNAGE W/ PICTOGRAM EXT — EXTERIOR SIGNAGE	SIGNAGE

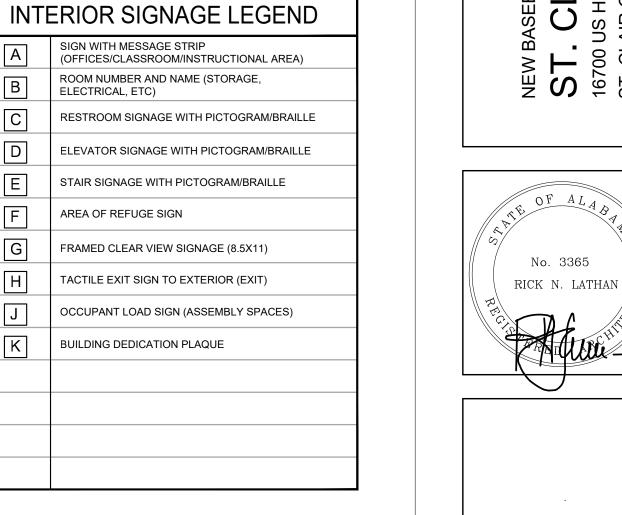
LATCH SIDE

NOTE:

1. TYPICAL SIGNAGE LOCATION AND HEIGHTS SHOWN. SEE SPECIFICATIONS FOR SIGN SIZE AND REQUIREMENTS.

2. ALIGN TOP OF ALL SIGNS AS SHOWN, TYPICAL UNLESS OTHERWISE REQUIRED BY THE AMERICANS WITH DISABILITIES ACT.

3.	SEE TORNADO SHELTER PLANS FOR SHELTER SIGNAGE
	IF APPLICABLE.



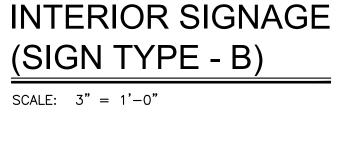
CLASSROOM	9



AREA OF

REFUGE

SCALE: 3" = 1'-0"



STORAGE



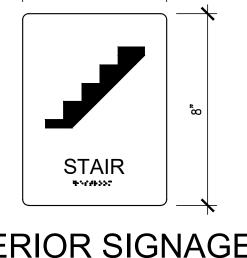


SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - D)

SCALE: 3" = 1'-0"



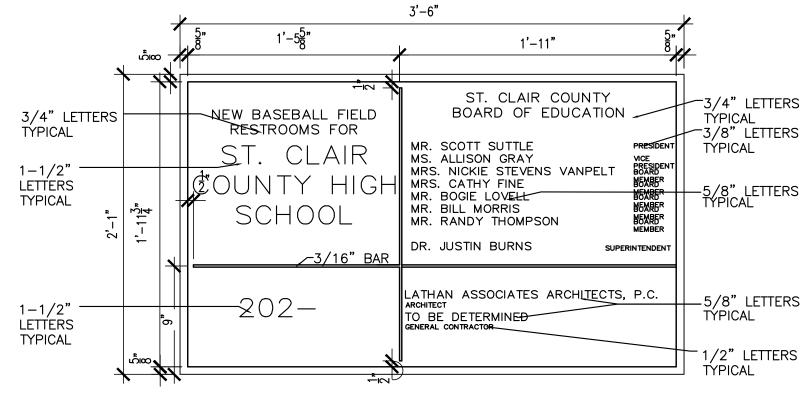
# INTERIOR SIGNAGE (SIGN TYPE - E)

SCALE: 3" = 1'-0"

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<b>*</b>			
_			-

	100	8	~
INITE	RIOR SIG	2N12	10E

**MAXIMUM** 



# INTERIOR SIGNAGE (SIGN TYPE - F)

SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"

# INTERIOR SIGNAGE (SIGN TYPE - H)

**EXIT** 

SCALE: 3" = 1'-0"

# INTERIOR SIGNAGE (SIGN - TYPE J)

SCALE: 3" = 1'-0"

# BUILDING PLAQUE (SIGN - TYPE K)

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

FINAL VERBIAGE SHALL BE VERIFIED PRIOR TO FABRICATION

REFLECTED CEILING PLAN, FLOOR FINISH PLAN, DETAILS, LEGENDS, AND SCHEDULES PROJ. MGR.: R. VERNON DRAWN: B. LUCAS DATE: **APRIL, 15 2025** REVISIONS

SHEET TITLE:

LATHAN ARCHITECTS

JOB NO. **25-07** SHEET NO: **A7** 7 OF 7

#### STRUCTURAL DESIGN GROUP 300 Chase Park South, Suite 125 Hoover, AL 35244 tel 205-824-5200 fax 205-824-5280

Job Number 25-063

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GENERAL NOTES

SHEET TITLE:

ORAWN:	Al
PROJ. MGR.:	НС

APRIL 15, 2025

I DATE: REVISIONS

JOB NO. **25-07** 

SHEET NO:

# **GENERAL NOTES**

#### 1.0 DESIGN CRITERIA

#### 1.1 CODES AND SPECIFICATIONS:

- A. GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2021 EDITION.
- B CONCRETE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)
- SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16). BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 402-16).
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST AND PAPER ASSOCIATION (NDS 2018 & SDPWS 2021)

## 1.2 DESIGN GRAVITY LOADS (PSF):

- A. DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF
- LOAD-CARRYING CAPACITY OF THE STRUCTURE. ROOF LIVE LOADS: WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE

	R00F	2(
c	ROOF SNOW LOADS:	
٠.	GROUND SNOW LOAD (Pg)	5.(
	IMPORTANCE FACTOR (I)	1.1
	EXPOSURE FACTOR (Ce)	1.(
	THERMAL FACTOR (Ct)	1.(

SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.11

#### 1.3 DESIGN LATERAL LOADS:

- WIND LOADS:
- RISK CATEGORY III ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)-----WIND EXPOSURE CATEGORY--INTERNAL PRESSURE COEFFICIENTS----- +/- 0.18 SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS
- B. SEISMIC LOADS: RISK CATEGORY III SEISMIC IMPORTANCE FACTOR-----MAPPED SPECTRAL RESPONSE ACCELERATIONS: -0.099STTF CLASS----SPECTRAL RESPONSE COEFFICIENTS: --0.158SEISMIC DESIGN CATEGORY--BASIC SEISMIC-FORCE-RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS DESIGN BASE SHEAR: ---SEISMIC RESPONSE COEFFICIENT, Cs --------0.080

## 2.0 GENERAL CONDITIONS

RESPONSE MODIFICATION FACTOR---

2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

- 2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
- 2.3 CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION, NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.
- 2.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.
- 2.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS. SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER, CONTRACTOR SHALL CONFIRM AND CORRELATE ALL OUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION. COORDINATE HIS WORK WITH THAT OF OTHER TRADES. AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS
- 2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
- 2.7 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.
- 2.8 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION, AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.
- 2.9 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE INPLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL.
- 2.10 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.
- 2.11 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

#### 3.0 FOUNDATIONS

- 3.1 A GEOTECHNICAL ENGINEER, EMPLOYED BY THE GENERAL CONTRACTOR, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE ASSUMED ALLOWABLE BEARING PRESSURE AND SEISMIC SITE CLASS NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL.
- 3.2 ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURES (PSF): COLUMN FOOTINGS-----CONTINUOUS WALL FOOTINGS-----
- NOTE: ALL FOOTING BEARING ELEVATIONS SHALL BE BEARING IN SIMILAR MATERIAL (NATIVE SOILS OR WEATHERED BEDROCK). EXTEND FOOTINGS AS NECESSARY WITH LEAN CONCRETE OR FLOWABLE FILL.
- 3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- 3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS PROVIDED BY THE GEOTECHNICAL ENGINEER.
- 3.5 BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING TO WITHIN 18" OF FINSH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR, GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSH AND RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSH AND RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 3.6 FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.
- 3.7 REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS AT THE SAME ELEVATION AS WALL FOOTING. STEP WALL FOOING DOWN ON SPREAD FOOTING WHERE SPREAD FOOTING IS BELOW CONTINUOUS WALL
- 3.8 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS

## 4.0 CONCRETE

- 4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- 4.2 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE

USE.				
STRENGTH TYPE	MAX W/C AIR	SLUMP	USE	
3000 NORMAL WT.	0.57 0.50		FOOTINGS SLABS ON GRADE	
4000 NORMAL WT.		3 .0 3	UNLESS NOTED	

- 4.3 REINFORCING BARS: ASTM A615 GRADE 60.
- 4.4 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- 4.5 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.
- 4.6 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
- 4.7 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 4.8 ALL REINFORCING MARKED "CONT" INDICATES REINFORCING SHALL BE CONTINUOUS AND SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED

## 4.9 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED;

FOOTINGS2" TOP & 3" BOTTOM & SIDES
COLUMNS, PIERS, & PEDESTALS1-1/2" CLEAR OF TIES
FOUNDATION RETAINING WALLS2" BOTH FACES
BEAMS1-1/2" CLEAR OF
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH3/4"
SLAB FACES EXPOSED TO WEATHER
#5 AND LESS1-1/2 #6 AND GREATER2
NOTE: SLAB ON GRADE WWR OR REINFORCEMENT EACH WAY SHALL BE 2 CLEAR FROM TOP OF SLAB. SEE EARTH SUPPORTED SLABS SECTION

- 4.10 PEDESTAL AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.
- 4.11 WELDED WIRE REINFORCEMENT (WWR): ASTM A185. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.
- 4.12 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS RETNEORCING IN FOOTINGS, SLABS OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.

## 4 13 EARTH SUPPORTED SLABS:

- 4" THICK (UNLESS NOTED), REINFORCED WITH 6X6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.
- EARTH SUPPORTED SLABS SHALL BE CURED PER ACI REQUIREMENTS USING A MEMBRANE FORMING CURING/SEALING COMPOUND OR MOIST CURING PROCESS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS,
- PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL JOINT. PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS.
- PROVIDE JOINT IN STEEL ELEMENT. 4.14 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB ON GRADE WITHOUT THE

WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS,

## 5.0 MASONRY

REINFORCEMENT.

- 5.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602-16 SPECIFICATION.
- 5.2 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY THE LOCAL BUILDING CODE
- 5.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.
- 5.4 NET COMPRESSIVE STRENGTH FOR EACH CMU UNIT SHALL MEET OR EXCEED 2000 PSI AT 28 DAYS. FOR TYPE N MORTAR, NET COMPRESSIVE STRENGTH FOR BLOCK SHALL BE GREATER THAN 2650 PSI.
- 5.5 ALL MASONRY SHALL BE NORMAL WEIGHT IN ACCORDANCE WITH ASTM C90.
- 5.6 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 7 OF ACI 530.1/ASCE 6/TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE POSSIBLE.
- 5.7 MORTAR SHALL BE TYPE S OR M. TYPE N MORTAR ALLOWED ONLY IF CMU NET COMPRESSIVE STRENGTH GREATER THAN 2650 PSI.
- 5.8 ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED.
- 5.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE
- 5.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE. SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL

5.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU

- A. SHOP DRAWINGS SHALL INCLUDE AN ELEVATION VIEW OF EACH REINFORCED WALL WITH ALL VERTICAL AND HORIZONTAL REINFORCING AS WELL AS WALL OPENINGS/PENETRATIONS SHOWN RETNEORCING SHOP DRAWINGS NOT CONTAINING THESE ELEVATION DRAWINGS WILL BE RETURNED AS AN
- INCOMPLETE SUBMITTAL. 5.12 MASONRY CONTROL JOINTS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. FOR ADDITIONAL INFORMATION ON CONTROL JOINTS SEE TYPICAL
- 5.13 WHEN REINFORCING IS SPECIFIED, PROVIDE AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.
- 5.14 EXTEND REBAR AT WALL OPENINGS A MINIMUM OF 2'-0" PAST THE OPENING AT ALL CORNERS, UNLESS NOTED. AT WINDOWS PROVIDE A MINIMUM OF 2#4 BARS AT THE SILL OF THE WINDOWS
- 5.15 AT CMU PARTITIONS OVER 8'-0" TALL, SUPPORTED BY SLAB ON GRADE, PROVIDE THICKENED SLAB PER TYPICAL DETAILS
- 5.16 PROVIDE WALL TOP SUPPORT AT 8'-0" OC FOR ALL INTERIOR NON-LOAD BEARING CMU WALLS WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR BRACING WALLS EXCEEDS 20'-0".
- 5.17 GROUT SHALL COMPLY WITH TABLE 7 OF ACI 530.1/ASCE 6/TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS.
- 5.18 PROVIDE HORIZONTAL JOINT REINFORCING IN REINFORCED MASONRY WALLS AS DIRECTED BY THE ARCHITECT. AT WALL CORNERS AND INTERSECTIONS, PROVIDE PREFABRICATED T AND L SHAPES. FIELD BENDING IS NOT PERMITTED. MINIMUM OF LADDER TYPE ZINC COATED CONFORMING TO ASTM A82 HOHMANN & BARNARD 220 LADDER-MESH OR EQUIVALENT AT EVERY OTHER BLOCK COURSE ABOVE FOOTING. REINFORCEMENT SHOULD CONSIST OF TWO OR MORE LONGITUDINAL WIRES, NO. 9 GAUGE OR LARGER, WELDED WITH NO. 9 GAUGE OR LARGER CROSS WIRES. LAP SPLICE HORIZONTAL JOINT REINFORCING A MINIMUM OF 12".
- 5.19 PROVIDE DOVETAIL ANCHORS AT 16" O/C, UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.
- 5.20 PROVIDE GROUT FILLED U-BLOCK AT TOP OF ALL CMU WALLS REINFORCED WITH 2 # 4 BARS CONTINUOUS, UNLESS NOTED.
- 5.21 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE
- 5.22 WHERE TOP OF FOOTING SUPPORTING MASONRY WALLS IS MORE THAN 2'-8" BELOW FINISH FLOOR PROVIDE #6@16, UP TO THE FINISH FLOOR ELEVATION, IN ADDITION TO SPECIFIED REINFORCEMENT.
- 5.23 CONDUITS OR CONDENSATE DRAIN LINES UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONT THRU MASONRY BOND BEAMS. COORDINATE WITH MECHANICAL OR ELECTRICAL DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERRUPT CONTINUOUS REINFORCING STEEL IN PLACEMENT OF DRAIN OR CONDUIT LINES.
- 5.24 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING.
- A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION".
- B. THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASONRY CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".
- 5.25 CONTROL JOINTS IN CMU WALLS SHALL BE DISCONTINUOUS AT MASONRY BOND BEAMS. BOND BEAM REINFORCING SHALL EXTEND CONTINUOUS WITH 48 BAR DIAMETER LAPS AND CORNER BARS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

# 6.0 WOOD CONSTRUCTION

- 6.1 ALL SAWN LUMBER IN CONTACT WITH SOIL, MASONRY OR CONCRETE, OR EXPOSED TO WEATHER TO HAVE A PRESERVATIVE PRESSURE TREATMENT IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATIONS (AWPA) STANDARD U1 (CURRENT
- 6.2 CUT ENDS OR ALL TREATED LUMBER SHALL BE FIELD TREATED WITH AN APPROVED PRESERVATIVE IN ACCORDANCE WITH THE TREATMENT MANUFACTURERS INSTRUCTIONS AND AWPA STANDARD M4-08.
- 6.3 ALL LUMBER SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT, INCLUDING PRESERVATIVE TREATED LUMBER.
- 6.4 ALL SCREWS, BOLTS, AND NAILS FOR USE WITH PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. FASTENERS TO BE HOT-DIPPED GALVANIZED SHALL MEET THE REQUIREMENTS OF ASTM A 153, CLASS D FOR 3/8" DIAMETER OR SMALLER AND CLASS C FOR FASTENERS WITH DIAMETERS OVER 3/8".
- 6.5 FASTENERS OTHER THAN NAILS AND TIMBER RIVETS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55, MINIMUM.
- 6.6 METAL CONNECTORS SHOWN IN DOCUMENTS ARE SIMPSON STRONG TIE CONNECTORS. SUBSTITUTION WITH EQUAL CONNECTORS BY OTHER MANUFACTURERS IS ACCEPTABLE.

- 6.7 ALL HARDWARE (JOIST HANGERS, ETC.) SHALL BE GALVANIZED OR SHALL BE STAINLESS STEEL. HARDWARE TO BE HOT-DIPPED PRIOR TO FABRICATION SHALL MEET ASTM A 653, G-185 COATING. HARDWARE TO BE HOT-DIPPED AFTER FABRICATION SHALL MEET ASTM A 123.
- 6.8 FASTENER AND HARDWARE SELECTION: HOT-DIPPED GALVANIZED MATERIAL SHALL NOT BE USED IN CONTACT WITH STAINLESS STEEL MATERIAL.
- 6.9 ALL NAIL SIZES INDICATED IN DOCUMENTS ARE BASED ON COMMON WIRE NAILS. SUBSTITUTION OF DIFFERENT STYLE NAILS IS ACCEPTABLE BASED ON ACTUAL DIAMETER ONLY. 6.10 DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE
- "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE. TRUSS ERECTION PLANS AND CALCULATIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE REVIEW OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 6.11 TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:

Α.	ROOF TOP CHORD DEAD LOAD10 PSF
В.	ROOF BOTTOM CHORD DEAD LOAD10 PSF
С.	ROOF TOP CHORD LIVE LOAD20 PSF
D.	ROOF BOTTOM CHORD LIVE LOAD250 LBS
	(CONCENTRATED LOAD AT ANY LOCATION ALONG BOTTOM CHORD)

- 6.12 DESIGN OF ACTUAL WOOD TRUSS WEB CONFIGURATION TO BE DETERMINED BY TRUSS MANUFACTURER.
- 6.13 DESIGN WOOD TRUSSES TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENT AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL
- 6.14 IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS ETRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR, MAXIMUM LOAD IS 200 LBS PER CONNECTION ACCORDING TO NOTE BELOW. SUBCONTRACTOR SHALL PROVIDE HANGER SPACINGS TO NOT EXCEED 200 LBS LOAD TO TRUSS.
- 6.15 ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS
- MANUFACTURER FOR THE LOADS INDICATED. 6.16 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DESIGNED AND DETAILED ON THE WOOD TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO THE TRUSS MANUFACTURER'S ERECTION PLANS AND "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" BY
- 6.17 TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.
- 6.18 ROOF SHEATHING: 3/4" PLYWOOD, APA RATED SHEATHING EXPOSURE 1, WITH PLY CLIPS AT ALL UNSUPPORTED EDGES. PANEL IDENTIFICATION INDEX 48/24.LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.
- 6.19 ROOF SHEATHING NAILING, UNLESS NOTED: 10d NAILS AT 6 INCHES AT ALL

FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS

# 7.0 POST-INSTALLED ANCHORS AND REINFORCING

- 7.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR
- MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING. 7.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT
- DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.

BCSI. LATEST EDITION.

- 7.3 FOR ANCHORING INTO CONCRETE: MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC
  - APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713) SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
  - SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713) HILTI KWIK HUS-EZ AND KWIK HUS EZ-I SCREW ANCHORS (ICC ESR-3027) . HILTI KWIK BOLT-TZ EXPANSION ANCHORS (ICC ESR-1917)

SIMPSON STRONG-TIE "TORQ-CUT" (ICC-ES ESR-2705)

- 7. HILTI KWIK BOLT 3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) (ICC ESR-2302)
- 8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546)
- 9. HILTI HSL-3 EXPANSION ANCHORS (ICC ESR 1545) 10. DEWALT SCREW-BOLT+ (ICC-ES ESR-3889) 11. DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502)
- 12. DEWALT POWER-STUD SD1 (ICC-ES ESR-2818) 13. DEWALT HANGERMATE+ (ICC-ES ESR-3889) 14. DEWALT ATOMIC+ UNDERCUT (ICC-ES ESR-3067)
- 15. DEWALT POWER-BOLT+ (ICC-ES ESR-3260) MECHANICAL ANCHORS FOR USE IN THE UNDER SIDE OF NORMAL WEIGHT HOLLOW CORE AND POST TENSION SLAB WHERE EMBEDMENT DEPTH MUST NOT
- EXCEED ¾". PRE-APPROVED PRODUCTS INCLUDE: 1. DEWALT MINI-UNDERCUT+ (ICC-ES ESR-3912)

2. HILTI HDP-P TZ DROP-IN ANCHOR (ICC ESR-4236)

- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS, SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-19 26.7.2 & 26.7.2(e). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-19 26.7.2 & 26.7.2(e). PRE-APPROVED
- PRODUCTS INCLUDE: SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
- SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-263) SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) 4. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868) 5. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814)
- ADHESIVE AND KWIK-HUS EZ (ICC ESR-5065) 7. DEWALT PURE110+ FOR WARM WEATHER/SLOW CURE (ICC-ES ESR-3298): FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES

6. HILTI KWIK-X DUAL ACTION ANCHOR SAFEST SYSTEM WITH KHC CAPSULE

ESR-3298 8. DEWALT AC200+ FOR COLD WEATHER/RAPID CURE (ICC-ES ESR-4027); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-4027

- D. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
- 1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) 2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
- HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269) 4. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 5. DEWALT TRAK-IT C5, GAS ACTUATED (ICC-ES-ESR 3275)
- 7.4 FOR ANCHORING INTO MASONRY:
- A. SOLID-GROUTED CONCRETE MASONRY
- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
- a. SIMPSON STRONG-TIE "TITEN-HD" & "STAINLESS STEEL TITEN HD" (ICC-ES ESR-1056)
- b. SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240) c. SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396) d. SIMPSON STRONG-TIE "TITEN TURBO" (IAMPO-UES ER-716)

h. DEWALT "SCREW-BOLT+" (ICC-ES ESR 4042)

BIT AND VACUUM (ICC ESR-4878)

- e. HILTI KH-EZ, KH-EZ CRC, KH-EZ SS316, KH-EZ C, AND KH-EZ P SCREW ANCHORS (ICC ESR-3056) f. HILTI KWIK BOLT-1 EXPANSION ANCHOR (ICC ER-677) g. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR (ICC ESR-4561)
- i.DEWALT "POWER-STUD+ SD1" (ICC-ES ESR 2966) 2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN

ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:

- a. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281) b. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265) c. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143): STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED
- e.DEWALT AC100+ GOLD (ICC-ES ESR-3200) 3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE
- WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE: a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138) c. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269) d. DEWALT TRAK-IT C5, GAS ACTUATED (ICC-ES-ESR 3275)

d. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL

- B. UNREINFORCED BRICK MASONRY (URM): ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC60. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:
- 1. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3638) 2. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143): STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED

PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

- DEWALT "AC100+ GOLD" (ICC-ES ESR-4105) 7.5 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR
- SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS. 7.6 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW NO LESS THAN TWO WEEKS PRIOR TO BID, SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR EVALUATION WILL
- ALSO CONSIDER CREEP. IN-SERVICE TEMPERATURE AND INSTALLATION 7.7 INSTALL ANCHORS PER THE MANUFACTURER PRINTED INSTRUCTIONS (MPII), OR
- AS INCLUDED IN THE ANCHOR PACKAGING. 7.8 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER
- 7.9 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF
- INSTALLING ANCHORS. 7.10 THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND
- PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION. 7.11 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND
- PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS. 7.12 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH FXTSTING REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT. THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE

REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY HILTI

# FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

CONSTRUCTION DOCUMENTS.

8.0 INSPECTIONS 8.1 OWNER SHALL RETAIN THE SERVICES OF INDEPENDENT AGENCIES TO PERFORM THE CONSTRUCTION MATERIAL TESTING AND CODE REQUIRED SPECIAL INSPECTIONS. AS CONSTRUCTION PROGRESSES. FORWARD COPIES OF INSPECTION REPORTS TO STRUCTURAL ENGINEER FOR REVIEW. SDG CANNOT ISSUE A CERTIFICATE OF SATISFACTORY COMPLETION WITHOUT REVIEWING THESE REPORTS AND FINAL

CERTIFICATES ISSUED BY EACH OF THE INDEPENDENT AGENCIES.

- 8.2 STRUCTURAL OBSERVATION BY SDG IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED STRUCTURAL PORTIONS OF THE CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL AND
- 8.3 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

# 9.0 SHOP DRAWINGS (SUBMITTALS)

- 9.1 THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW AN ELECTRONIC SET OF DESIGN CALCULATIONS FOR ITEMS LISTED BELOW; CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED:
- . STRUCTURAL STEEL BEAM CONNECTION DESIGN STEEL STAIR FRAMING AND CONNECTIONS DESIGN
- ARCHITECTURAL PRECAST (SUBMIT FOR RECORD ONLY) FORMWORK AND SHORING (SUBMIT FOR RECORD ONLY)
- PRECAST CONCRETE HOLLOW CORE SLABS AUTOCLAVED AERATED CONCRETE (AAC) PANELS
- COLD-FORMED STEEL WALL PANEL FRAMING COLD-FORMED STEEL FRAMING COLD-FORMED STEEL ROOF TRUSSES

FLOOR AND ROOF WOOD TRUSSES

ELECTRONIC COPIES ARE RETURNED.

- 9.2 SUBMIT ALL SHOP DRAWINGS ELECTRONICALLY. ELECTRONIC COPIES WILL BE RETURNED TO THE ARCHITECT. REPRODUCTIONS REQUIRED BY THE CONTRACTOR
- 9.3 ALL SHOP DRAWINGS SHALL BE ACCOMPANIED BY A PROPERLY COMPLETED SUBMITTAL CHECKLIST, WHERE REQUIRED BY THE RELEVANT SPECIFICATION

ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE MADE AFTER THE

- 9.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK. 9.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION
- OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNIESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

9.6 ALL SUBMITTALS: IF THERE ARE QUESTIONS, CLARIFICATIONS, MODIFICATIONS,

- OR ITEMS WHERE INFORMATION, A RESPONSE, OR APPROVAL IS REQUESTED, SUCH ITEMS SHALL BE WRITTEN ON THE TRANSMITTAL OR COVER SHEET. WHERE SUBMITTAL CHECKLISTS ARE REQUIRED BY THE RELEVANT SPECIFICATION. THE AFOREMENTIONED INFORMATION MUST BE INDICATED ON THE SUBMITTAL CHECKLIST IN ACCORDANCE WITH THE RELEVANT SPECIFICATION. INDICATING SUCH ITEMS ON THE SHOP DRAWINGS, WITHIN ANY CALCULATIONS, OR PRODUCT DATA IS NOT SUFFICIENT. WHERE SUCH ITEMS ARE NOT SPECIFICALLY LISTED ON THE TRANSMITTAL. COVER SHEET. OR CHECKLIST IN ACCORDANCE WITH THESE GENERAL NOTES AND THE SPECIFICATIONS, SUCH ITEMS ARE NOT TO BE CONSIDERED APPROVED OR CONSIDERED. IF A OUESTION. CLARIFICATION. MODIFICATION. OR REQUEST FOR INFORMATION IS MADE AND NOT SPECIFICALLY RESPONDED TO BY STRUCTURAL DESIGN GROUP, NO APPROVAL OR CONSENT SHALL BE ASSUMED. THE CONTRACTOR SHALL ASSUME TOTAL LIABILITY AND RESPONSIBILITY IN ALL CASES WHERE SPECIFIC WRITTEN RESPONSE FROM STRUCTURAL DESIGN GROUP IS NOT OBTAINED, REGARDLESS OF ANY OTHER ACTIONS TAKEN BY STRUCTURAL DESIGN GROUP.
- 9.7 SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTRACTOR AND REVIEWED BY THE S.E.R. SHOULD THE OWNER OR CONTRACTOR FAIL TO OBTAIN THE S.E.R'S REVIEW OF THE SHOP DRAWINGS, THE S.E.R. WILL NOT ACCEPT RESPONSIBILITY FOR THE DESIGN AND CERTIFICATION OF THIS PROJECT. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL NOT BE PRODUCED
- PRIOR TO FINAL CONSTRUCTION SET. 9.8 DO NOT FABRICATE PRIOR TO SHOP DRAWING'S REVIEW.
- 9.9 ENGINEERING DESIGN AND SHOP DRAWINGS FOR FLOOR AND ROOF TRUSS SYSTEMS

ALONG WITH LAYOUT PLANS ARE REQUIRED TO BE SUBMITTED TO THE BUILDING

# 10.0 PREFABRICATED CANOPY

OFFICIAL FOR REVIEW PRIOR TO CONSTRUCTION.

- 10.1 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE CONSIDERED A DEFERRED SUBMITTAL TO THE BUILDING INSPECTION AGENCY.
- 10.2 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE FULLY ENGINEERED BY THE CANOPY MANUFACTURER AND CONTRACTOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- LIMITED TO, FOOTINGS, MEMBERS, CONNECTIONS AND ATTACHMENT TO STRUCTURE. 10.4 PROTECTIVE COVER WALKWAY AND PREFABRICATED CANOPY SHOP DRAWINGS SHALL BE SUBMITTED TO INCLUDE A FULL DESCRIPTION OF ALL CANOPY MEMBERS,

10.3 CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWINGS AND SHALL INCLUDE

DESIGN OF ALL WALKWAY/CANOPY SYSTEM COMPONENTS INCLUDING. BUT NOT

INCLUDING COLUMNS, BEAMS, FOOTINGS, FASCIA, ETC. SHOP DRAWINGS SHALL

BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE

THE PROJECT IS LOCATED. 10.5 IF PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE ATTACHED TO THE BUILDING, MINIMUM 16" DEEP BOND BEAM IS TO BE PROVIDED WITHIN THE LOAD-BEARING MASONRY WALL FOR WALKWAY AND CANOPY ANCHORAGE AS REQUIRED. MINIMUM 16" DEEP BOND BEAM IS TO BE CONSTRUCTED ON (2) 8" DEEP FORM BLOCKS WITH 2#5 CONTINUOUS IN EACH COURSE. CONNECTIONS TO BUILDING BY CANOPY MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR WALKWAY AND CANOPY TO VENEER. ANCHOR WALKWAY AND CANOPY INTO

ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.

LOAD-BEARING MASONRY WALL WITH THREADED RODS IN PIPE SLEEVES. FOR

1'-4"

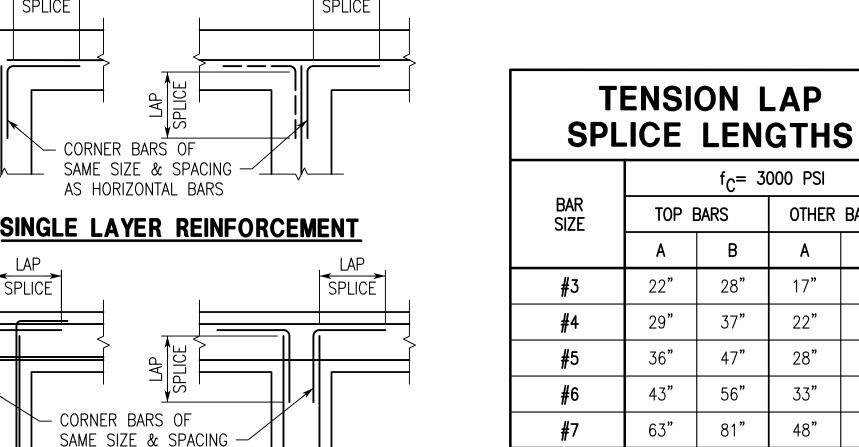
THICKENED SLAB

ON GRADE DETAIL

GENERAL NOTES

2#5 CONT W/

#4 TIES @36



TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

OTHER BARS

29"

22"

33"

48**"** 

SDG STRUCTURAL DESIGN GROUP 300 Chase Park South, Suite 125 Hoover, AL 35244 tel 205-824-5200 fax 205-824-5280 Job Number 25-063

LATHAN ARCHITECTS

COUNTY HIGH SCHOOL

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- DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL, OR IF STACK BOND IS SPECIFIED
- PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS FOR LINTELS GREATER THAN 6'-0" FILL CELLS SOLID AT EACH SIDE OF OPENING.
- 3. ALL EXPOSED LINTEL ANGLES TO BE HOT DIP

**MASONRY LINTEL** 

**SCHEDULE** 

MAXIMUM LINTEL DIMENSIONS AND REINFORCING

1#4 BOT

1#4 BOT

1#5 BOT & 1#4 TOP

1#6 BOT & 1#5 TOP

1#7 BOT & 1#5 TOP

1#8 BOT & 1#5 TOP

DEPTH | 8" WALL

16

**OPENING** 

WIDTH

2'-0"

4'-0"

6'-0"

8'-0"

10'-0"

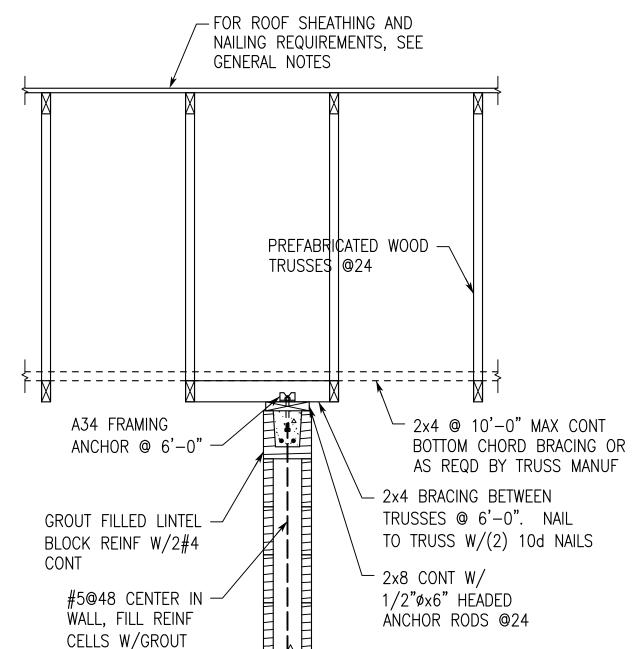
**MASONRY REINFORCING** 

LAP SPLICE LENGTHS

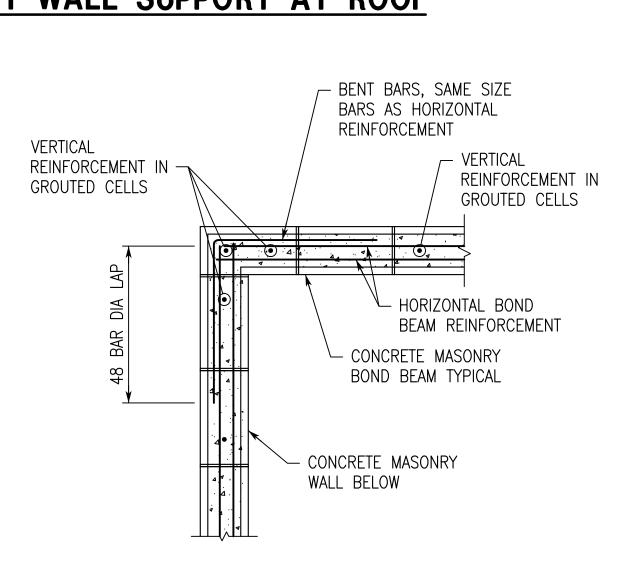
(IN.)

BAR SIZE CENTERED

GALVANIZED.
4. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.



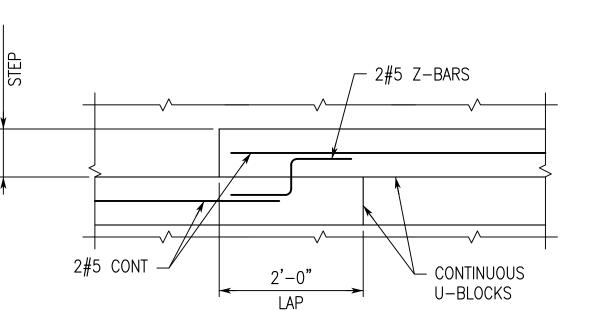
# MASONRY WALL SUPPORT AT ROOF



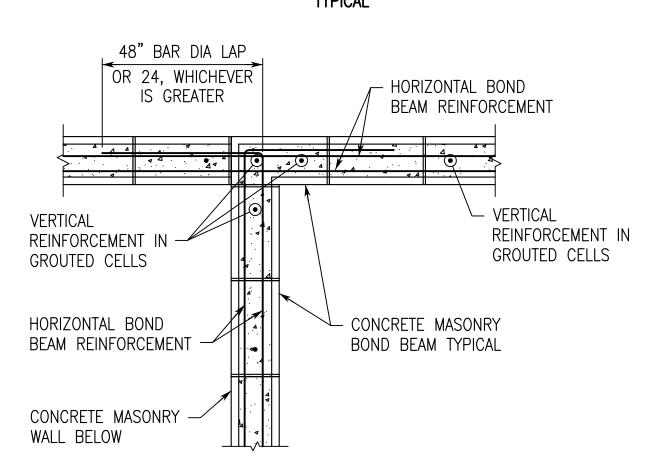
**PLAN SHOWING BOND BEAM** REINFORCEMENT AT WALL CORNER

PLAN SHOWING BOND BEAM AT STRUCTURAL WALL INTERSECTION

#### 18.0 18.0 24.0 29.0 30.0 45.0 43.0 54.0 60.0 63.0 72.0 72.0 82.0 82.0 LAP SPLICE LENGTHS APPLY TO BOTH HORIZONTAL AND VERTICAL REINFORCING. REINFORCEMENT LARGER THAN NO. 9 BAR SHALL BE SPLICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH ACI 530 & ACI 530.1.



# MASONRY BOND BEAM STEP DETAIL



SHEET TITLE: TYPICAL DETAILS

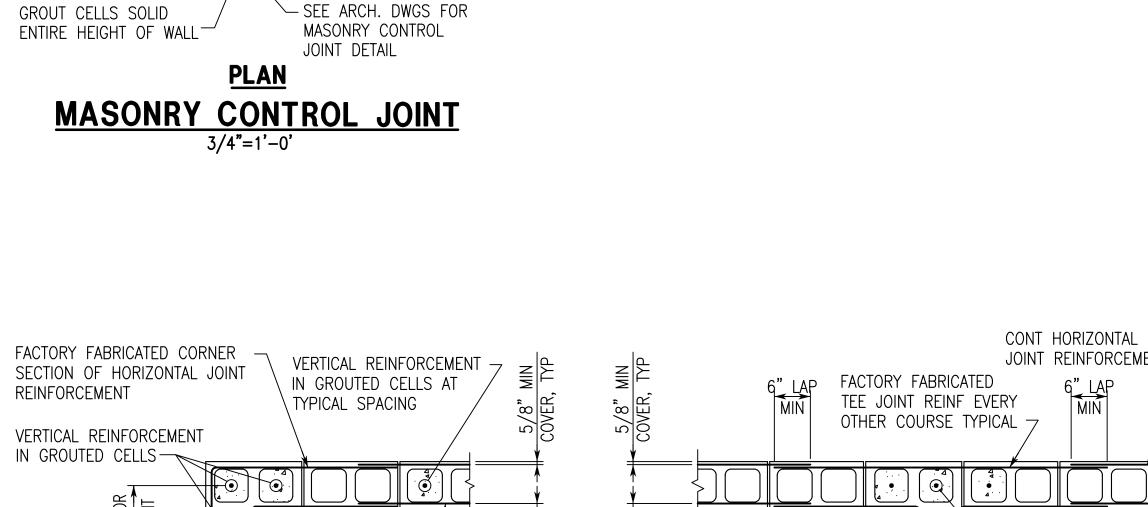
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DATE:	APRIL	15,	2025

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**PLAN SHOWING JOINT** 

SLAB EDGE DETAIL
TYPICAL

2 BARS EACH SIDE OF JOINT

SAME SIZE AS WALL DESIGN

REINF IN GROUTED CELLS —

CONT HORIZONTAL
JOINT REINFORCEMENT - VERTICAL REINFORCEMENT CONT HORIZONTAL IN GROUTED CELLS JOINT REINFORCEMENT VERTICAL HORIZONTAL JOINT REINFORCEMENT CONT MORTAR JOINT CONT HORIZONTAL JOINT REINFORCEMENT CONT HORIZONTAL JOINT REINFORCEMENT MASONRY WALL

REINFORCEMENT AT WALL CORNER

PLAN SHOWING JOINT REINFORCING AT STRUCTURAL WALL INTERSECTION

# -OPEN FOR VENTILATION (22 1/2" LONG) BETWEEN ÈACH TRUSS. ÁLTERNATE SIDES OF RIDGE — 2x8 RIDGE BLOCKING -ROOF SHEATHING - 2x4 BLOCKING LAID FLAT EACH SIDE OF TRUSSES @24 O/C <u>PLAN</u> <u>SECTION</u> NOTE: RIDGE VENT NOT SHOWN. SEE ARCH.

**BLOCKING AT RIDGE VENT** 

# COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

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ARCHITECTS

STRUCTURAL DESIGN GROUP

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Job Number 25-063

Hoover, AL 35244

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fax 205-824-5280

			, ,	
114 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT <sup>2</sup> )	ZONES 4 & 5	ZONES 4 (Int.)	ZONES (Edge)
	10	31.8	-34.5	-42.6
	20	30.4	-33.0	-39.7
	50	28.5	-31.1	-36.0
	100	27.0	-29.7	-33.1
	200	25.6	-28.3	-30.3
	500	23.7	-26.4	-26.4

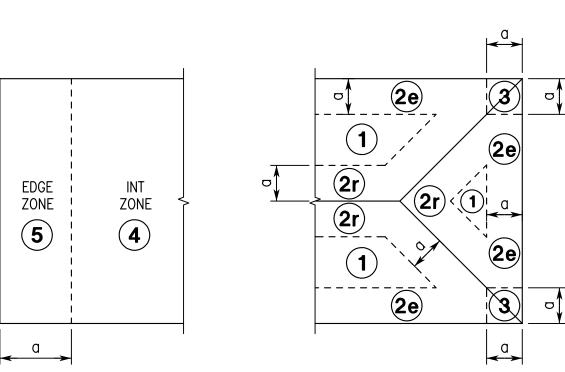
1. WIDTH OF EDGE STRIP 'a' = 3'-0".

- 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE
- 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
- 5. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.

	COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)								
			RO	OF			OVER	HANG	
114 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT <sup>2</sup> )	Positive Max. Net Pressure 'p' (PSF)	Zone 1 & 2e (Int.)	Zone 2n, 2r, & 3e (Edge)	Zone 3r (Corner)	Zone 1 & 2e (Int) - Max. Net Pressure 'p' (PSF)	Zone 2n & 2r (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3e (Corner) - Max. Net Pressure 'p' (PSF)	Zone 3r (Corner) - Max. Net Pressure 'p' (PSF)
	10	19.3	-58.8	-85.7	-101.9	-67.4	-94.3	-110.5	-126.7
	20	17.4	-58.8	-74.1	-87.3	-67.4	-85.6	-95.4	-107.2
	50	16.0	-35.7	-58.8	-68.0	-52.0	-74.1	-75.5	-81.5
	100	16.0	-18.3	-47.1	-53.4	-40.4	-65.4	-60.4	-62.0
	200	16.0	-18.3	-35.5	-53.4	-40.4	-56.7	-45.3	-62.0
	500	16.0	-18.3	-31.8	-53.4	-40.4	-53.9	-40.4	-62.0

## 1. **WIDTH OF EDGE STRIP 'a' = 3'-0"**.

- 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE
- 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD
- THE SPAN LENGTH. 5. CONSIDER 5 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF TRUSSES AND 2 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF DECK.
- 6. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.



**WALLS** 

HIP ROOFS

WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS

SHEET TITLE: TYPICAL DETAILS

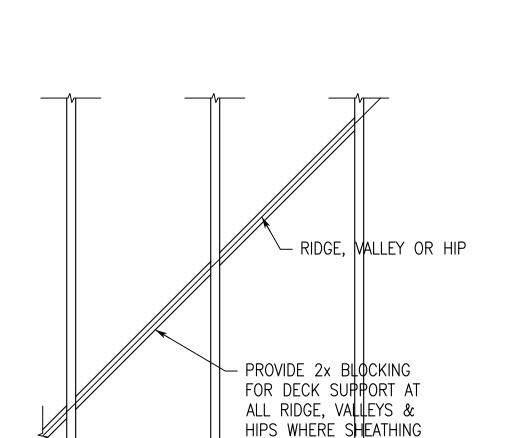
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IS UNSUPPORTED

TRUSS BLOCKING AT EXTERIOR WALL

CONTRACTORS OPTION TO USE EITHER TRUSSED BLOCKING OR 2x BUILTUP BLOCKING AT AREAS WHERE TRUSS HEEL HEIGHT EXCEEDS THAT WHICH TYPICAL 2x SOLID DEPTH BLOCKING IS PRACTICAL.

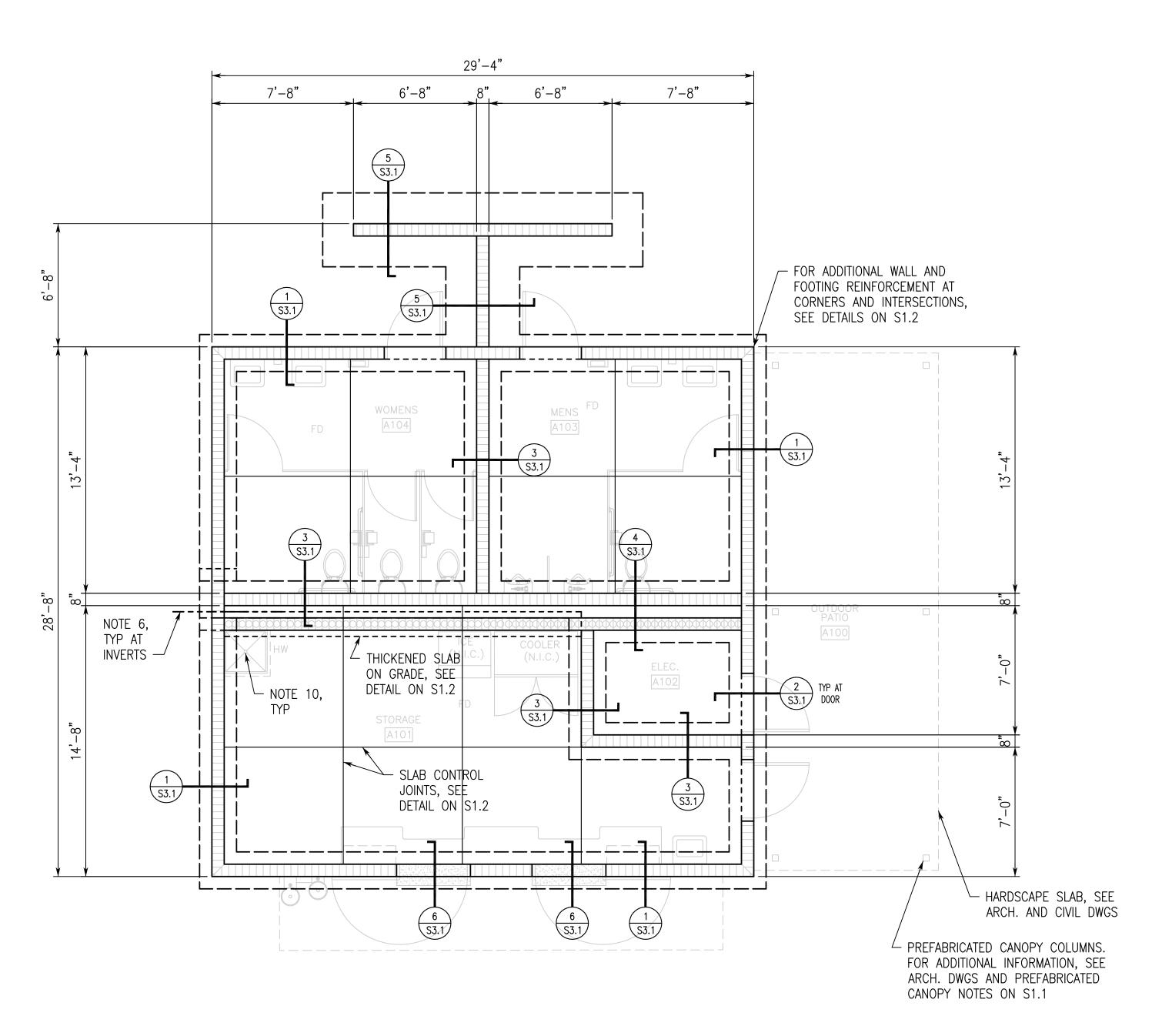
ROOF SHEATHING SUPPORT DETAIL

SDG
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Hoover, AL 35244
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fax 205-824-5280
Job Number 25-063



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BAMA 35120

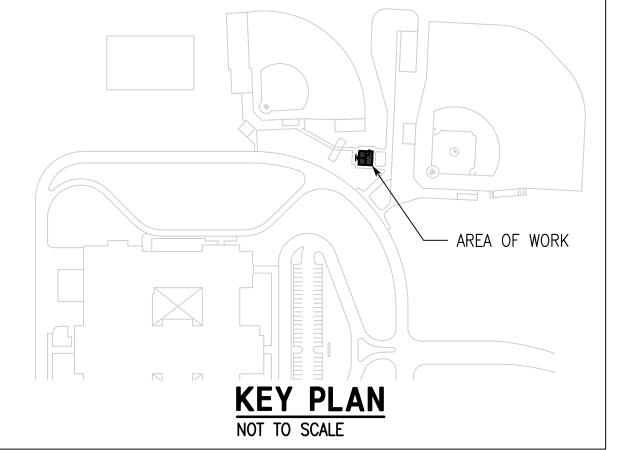


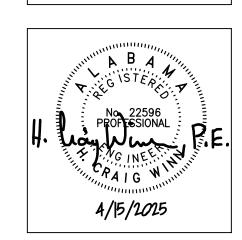


# FOUNDATION PLAN

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.

- TOP OF FOOTING ELEVATION -2'-0", UNLESS NOTED. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL
- 4. FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS.5. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH
- CONTROL JOINTS.
- 6. FOOTING STEP LOCATIONS SHOWN ARE APPROXIMATE. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL FOOTING STEPS WITH THE LATEST CIVIL, PLUMBING AND UTILITY DRAWINGS.
- 7. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
- 8. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.
- 9. FOR CMU WALL PLAN DIMENSIONS AS WELL AS OTHER PLAN DIMENSIONS,
- SEE ARCHITECTURAL DRAWINGS. 10. SLOPE SLAB TO FLOOR DRAIN, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.





SHEET TITLE: FOUNDATION PLAN

PROJ. MGR.: HCW DRAWN: ABS

DATE: APRIL 15, 2025 REVISIONS

JOB NO. **25-07** 

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Job Number 25-063

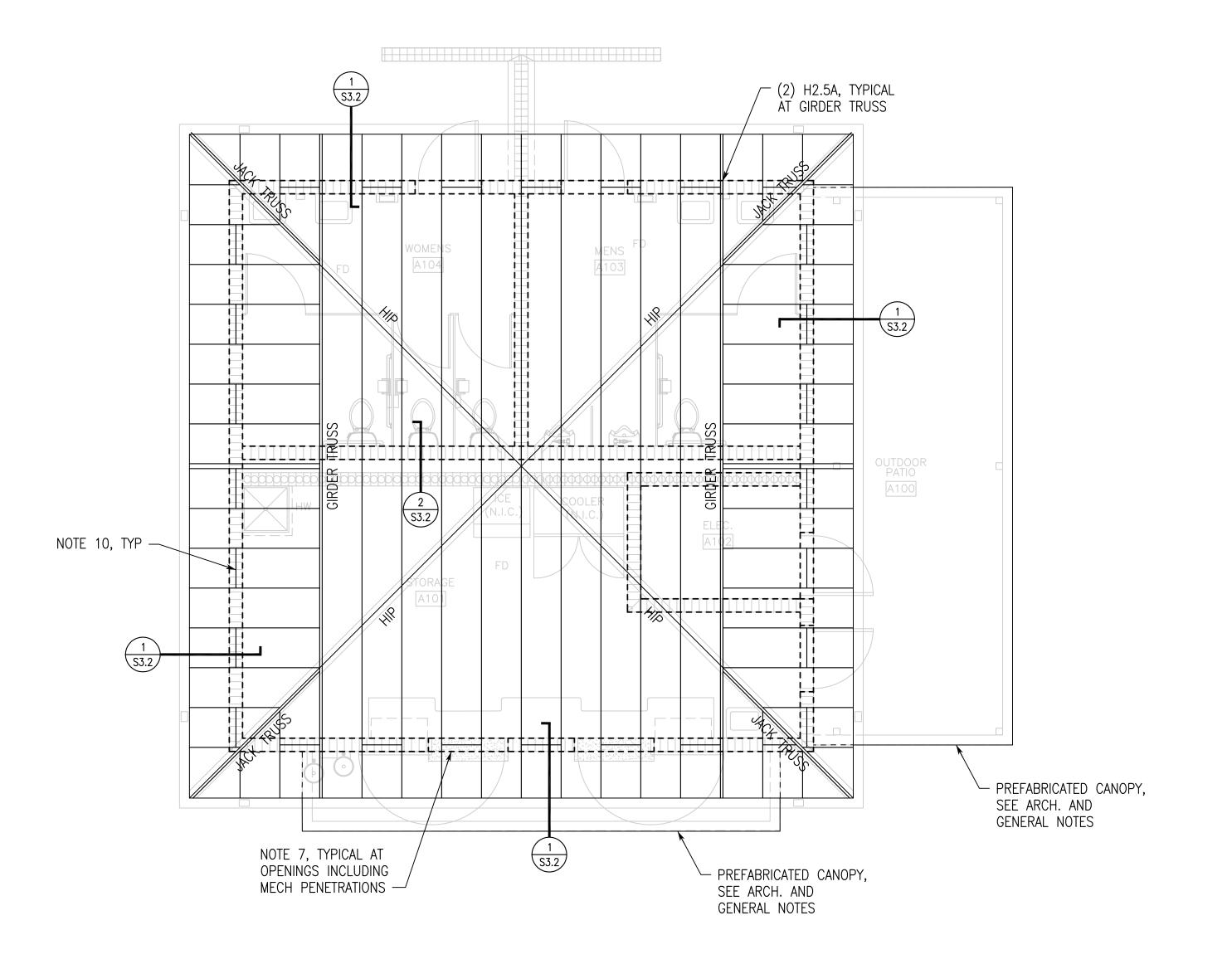


BASEBALL FIELD RESTROOMS FOR

CLAIR COUNTY HIGH SCHOOL

US HWY 411, ODENVILLE, ALABAMA 35120

LAIR COUNTY BOARD OF EDUCATION



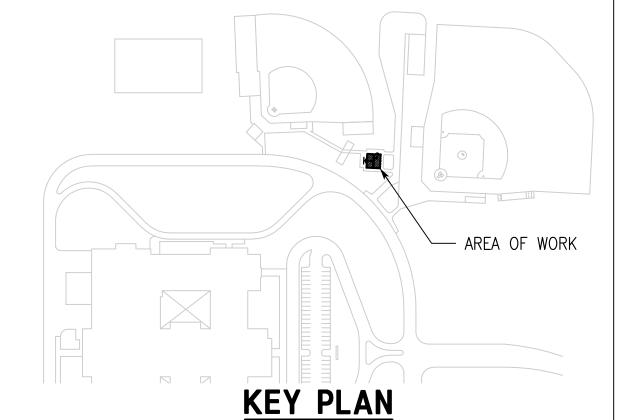
PROJECT NORTH

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

- 1. TRUSS BEARING ELEVATION 12'-8" ABOVE FINISHED FLOOR, UNLESS NOTED.
- 2. ROOF SYSTEM: 3/4" PLYWOOD ON PREFABRICATED ROOF TRUSSES AT 2'-0" MAXIMUM ON CENTER. SEE GENERAL NOTES.
- 3. TOP OF CMU IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
- 4. TRUSSES BEAR ON ALL WALLS AS SHOWN.
- 5. FOR WALL LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- 6. GENERAL CONTRACTOR SHALL COORDINATE THE LOAD MAGNITUDE AND LOCATION OF ANY EQUIPMENT SUPPORTED FROM THE TRUSSES. THESE LOADS AND LOCATIONS ARE TO BE SHOWN ON THE TRUSS SHOP DRAWINGS. ANY ATTACHMENT OF EQUIPMENT TO THE TRUSSES SHALL BE BY THE
- EQUIPMENT SUPPLIERS.

  7. PROVIDE MASONRY LINTELS AT ALL OPENINGS, SEE SCHEDULES ON S1.3.
- 8. GENERAL CONTRACTOR SHALL COORDINATE TRUSS LAYOUT WITH MECHANICAL EQUIPMENT AND DUCT LOCATIONS.
- 9. PROVIDE (2) 2x FRAMING AT ATTIC ACCESS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

  10. BLOCKING TRUSS SHALL BE LOCATED AS SHOWN ON PLAN. TRUSS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER TO TRANSFER 900 LBS (SERVICE) OF FORCE DOWN TO TOP OF WALL. SEE DETAIL ON \$1.3. ANCHOR TOP CHORD OF BLOCKING TRUSS TO ROOF AS DIRECTED BY TRUSS
- MANUFACTURER TO TRANSFER 150 LBS/FT (SERVICE) SHEAR FORCE. 11. SOFFIT FRAMING SHALL BE DESIGNED BY CONTRACTOR TO HANG FROM ROOF STRUCTURE.
- 12. HANGER LOCATIONS FOR PIPING LARGER THAN 3" IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE TRUSS MANUFACTURER. FOR PIPING WEIGHS, SEE DETAIL ON \$1.3.
- 13. BLOCKING TRUSSES, BRIDGING, PERMANENT BRACING, ECT. SHALL BE DESIGNÉD AND INDICATED ON THE TRUSS LAYOUT SHOP DRAWINGS. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES.
- 14. CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALL SHOULD BE COORDINATED BY THE CONTRACTOR AND INDICATED ON THE MASONRY WALL REINFORCING SHOP DRAWINGS.



NOT TO SCALE

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DATE: APRIL 15, 2025
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SHEET TITLE:

PLAN

**ROOF FRAMING** 

JOB NO. **25-07** 

SHEET NO:

S2.2

0 1" 2"







NEW BASEBALL FIELD RESTROOMS FOR

ST. CLAIR COUNTY HIGH SCHOOL

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SHEET TITLE: SECTIONS AND DETAILS

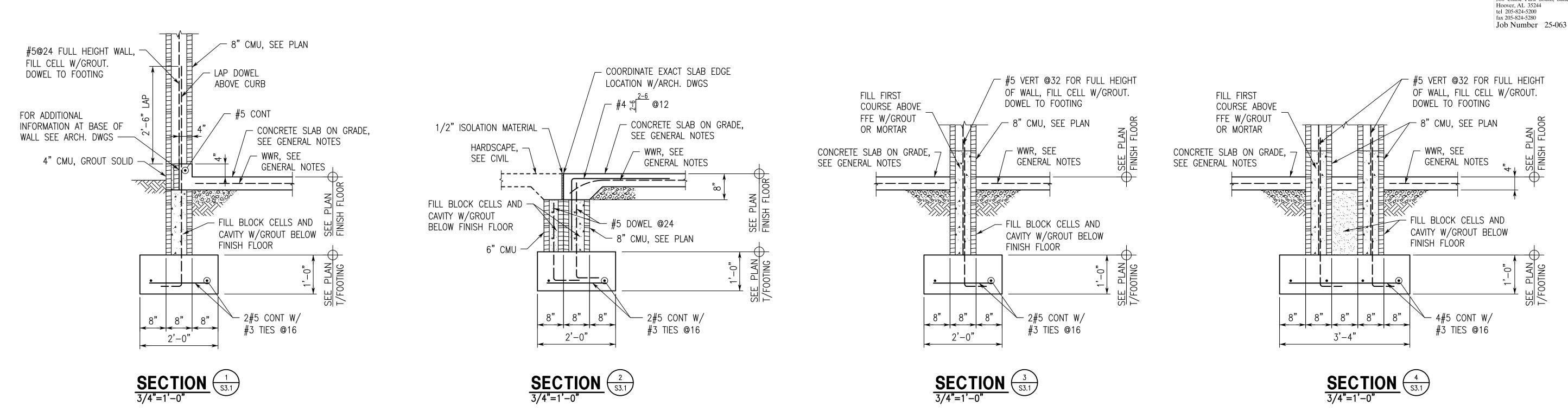
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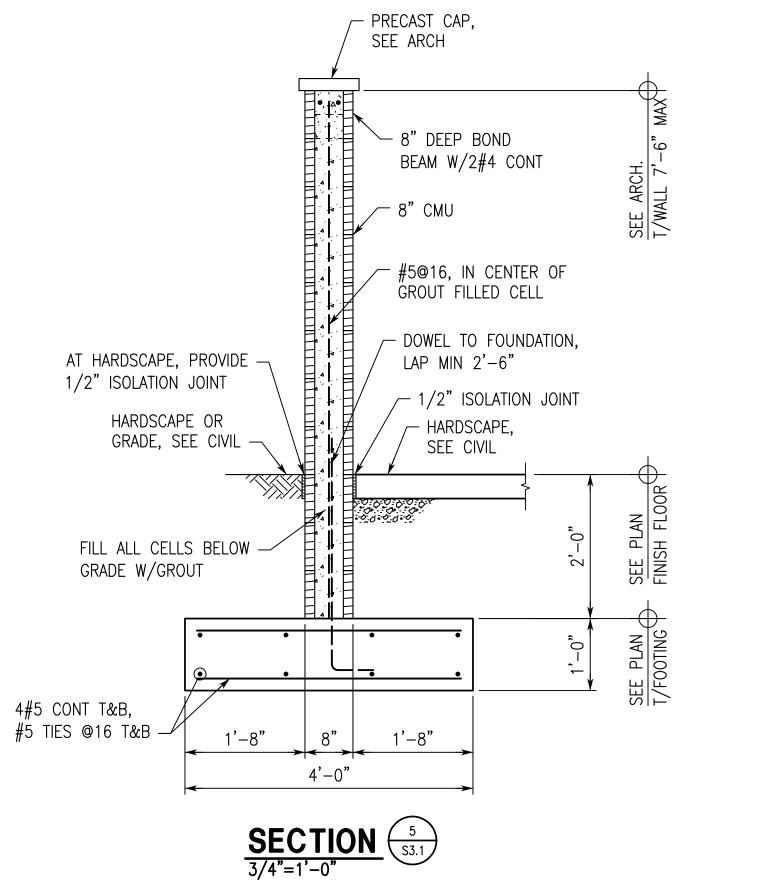
DATE: APRIL 15, 2025 REVISIONS

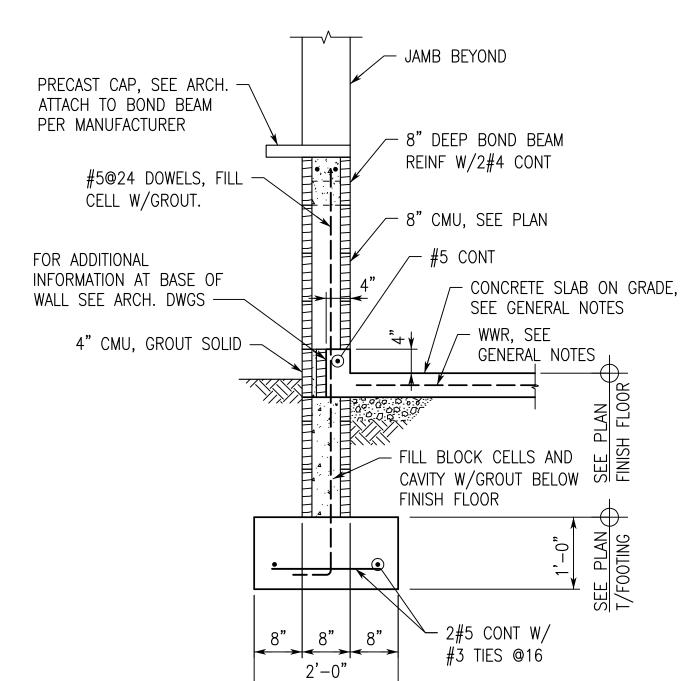
JOB NO. **25-07** 

SHEET NO:

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**SECTION** 6 S3.1

ROOF SHEATHING, SEE GENERAL NOTES TRUSS TO TRUSS — CONNECTION BY TRUSS MANUF SEE ARCH. Tod NAILS @4 FOR ROOF SHEATHING AND NAILING REQUIREMENTS, SEE GENERAL NOTES 2x FULL DEPTH BLOCKING, SEE ROOF PLAN FOR SPACING. SEE SEE TYPICAL DETAIL ON SHEET S1.3 ARCH. - CONNECT WOOD TRUSSES A34 FRAMING ANCHOR -TO TOP PLATE AS DIRECTED AT EACH END OF BY TRUSS FABRICATOR BLOCKING TRUSS TRUSS BRIDGING BY TRUSS MANUF — TRUSS BOTTOM CHORD — H2.5A ANCHOR SHALL TRANSFER LATERAL LOAD TO ROOF DIAPHRAGM ─ PREFABRICATED WOOD ─ PT (2) 2x8 CONT W/ 1/2"øx8" PT (2) 2x8 CONT W/ 1/2"øx8" PREFABRICATED WOOD TRUSSES @24 HOT-DIP GALVANIZED HEADED HOT-ĎIP GALVANIZEĎ HÉADED TRUSS @24, SEE ANCHOR RODS @16 W/3x3x3/16ANCHOR RODS @16 W/3x3x3/16 - H2.5A HOLD DOWN GENERAL NOTES PLATE WASHERS. PROVIDE 2 1/2" PLATE WASHERS. PROVIDE 2 1/2" ANCHOR AT EACH TRUSS THREADED PROJECTION OF ROD.

NAIL TOGETHER TOP PLATES THREADED PROJECTION OF ROD. NAIL TOGETHER TOP PLATES — (2) 8" DEEP FORM BOND BEAM GROUT FILLED W/10d NAILS @12 W/10d NAILS @12 BLOCKS W/2#4 CONT LINTEL BLOCK + FORM BLOCK REINF W/2#4 CONT T&B. CUT TOP BLOCK DOWN AS REQD -- FOR WALL REINF, SEE FOUNDATION SECTIONS. EXTEND CONT TO WITHIN 2" OF T/WALL ➤ FOR REINF, SEE FOUNDATION PLAN AND SECTION EXTEND

CONT TO WITHIN 2" OF T/WALL

SEE ARCH.

DWGS FOR

HEEL HEIGHT —

PT 2x WOOD
BLOCKING CONT
SEE ARCH.

FOR OVERHANG DIM, SEE ARCH.

NEW BASEBALL FIELD RESTROOMS FOR STRUCTURAL DESIGN GROUP

STRUCTURAL DESIGN GROUP

STRUCTURAL DESIGN GROUP

STRUCTURAL OBJECTS
Hower, Al. 35244

16 205-824-5306
18 205-824-5306
19 DO Number 25-063

LATHAN - BRYANT - CALMA

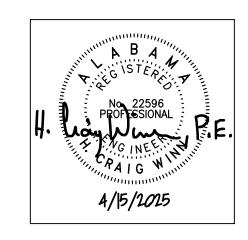
ARCHITECTS
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SHEET TITLE:
SECTIONS AND
DETAILS

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REVISIONS

JOB NO. **25-07** 

SHEET NO:

**S3.2**7 OF 7

0 1"

# **GENERAL NOTES**

- LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.
- CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
- ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18" X 18" X 6" THICK CONCRETE PAD. (J.R. SMITH 4258 OR
- WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
- ALL HORIZONTAL WATER AND VENT PIPING SHALL BE RUN ABOVE CEILING ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
- ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT

ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.

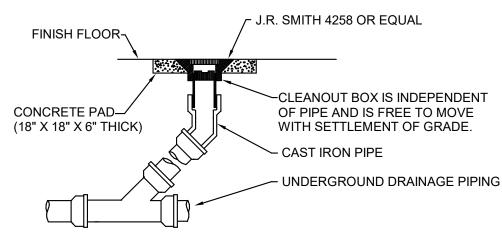
INSTALLED BELOW CEILING INSULATION.

- ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE MOUNTED 24" ABOVE FINISH GRADE OF FINISH FLOOR UNLESS OTHERWISE NOTED.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
- 10. NO VENT THRU ROOF IS TO BE LOCATED WITHIN 10 FEET OF ANY BUILDING AIR INTAKES, PER CODE. COORDINATE WITH MECHANIAL AND
- GENERAL CONTRACTORS. 11. DOMESTIC WATER PIPING AND LOCATED ABOVE THE CEILING, SHALL BE
- 12. CONTRACTOR SHALL COORDINATE MECHANICAL FLOOR DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
- 13. CONTRACTOR SHALL PROVIDE SHOCK ARRESTORS ON ALL BRANCH
- 14. CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO ORDERING SINKS.
- 15. DOMESTIC WATER PIPING SHALL NOT BE INSTALLED IN EXTERIOR
- 16. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE
- INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING CODE.
- 18. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
- 19. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM
- 20. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 &
- 21. NO JOINTS IN WATER PIPING BELOW SLAB.

SOLUTION AS PER CODE.

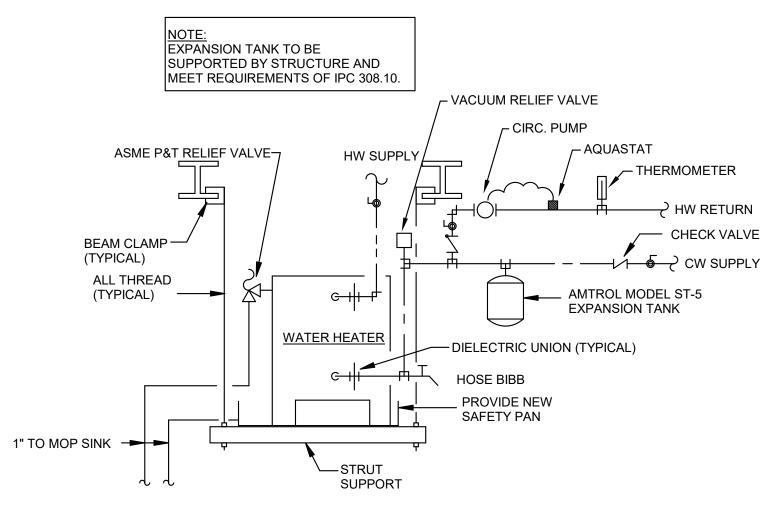
- 22. THE LOCATION OF LAVATORIES AND WATER CLOSETS RELATIVE TO THE FINISHED WALL IS CRITICAL. REFER TO ARCHITECTURAL AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL WATER CLOSETS TO BE 18" FROM FINISH WALL TO CENTER OF WATER CLOSET.
- WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT, CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- 25. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE
- 26. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
- 27. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. MAINTAIN ALL REQUIRED CLEARANCES.
- 28. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A PRICE, ORDERING MATERIALS OR PERFORMING ANY WORK. NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.
- 29. SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING CODE.
- 30. ALL FOOTINGS AT PLUMBING CHASE WALLS SHALL BE MIN 24" BELOW FINISHED GRADE TO COORDINATE WITH WASTE PIPING IN SLAB.
- 31. FIRESTOP ALL RATED WALL AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
- 32. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.
- 33. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

PLUMBING LEGEND					
	DOMESTIC COLD WATER	<b>─</b> ऄ─	BALANCE VALVE		
	DOMESTIC HOT WATER SUPPLY		BALL VALVE		
	DOMESTIC HOT WATER RETURN	N	CHECK VALVE		
	SANITARY		UNION		
	VENT	со	CLEANOUT		
<u></u>	PIPE TURNING DOWN	BFF	BELOW FINISHED FLOOR		
	PIPE TURNING UP	GPM	GALLONS PER MINUTE		
	TEE DOWN	VSTR	VENT THROUGH ROOF		
——————————————————————————————————————	TEE UP	EX	EXISTING		

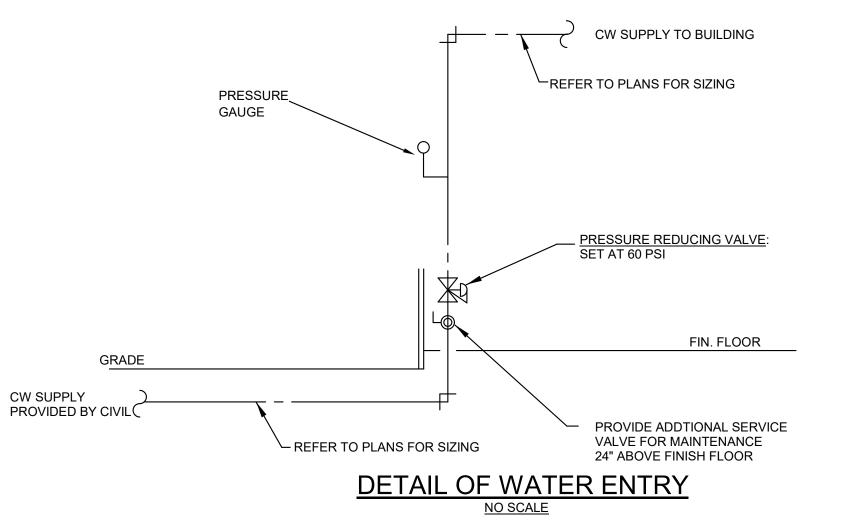


**DETAIL OF CLEANOUT TO GRADE** 

NO SCALE



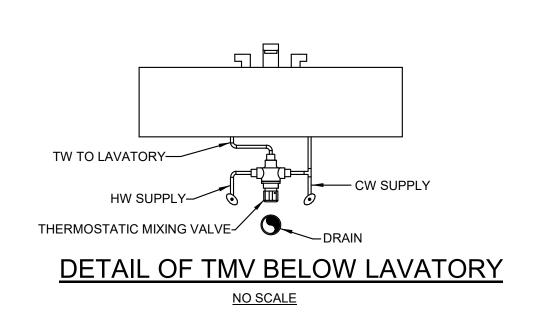
# **DETAIL OF PIPING AT WATER HEATER ABOVE CEILING** NO SCALE

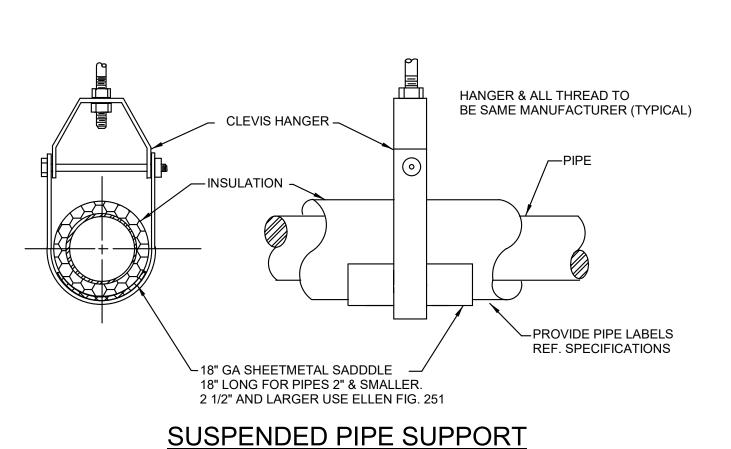


		PL	.UMBIN	G FIXTL	JRE SCHEDULE
MARK	FIXTURE	WASTE	CW	HW	REMARKS
FD	FLOOR DRAIN	3"	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
FS	FLOOR SINK	3"	-	-	J.R. SMITH #3100, 8" SQUARE, PORCELAIN ENAMELED CAST IRON INTERIOR WITH 3/4 CAST IRON PORCELAIN ENAMELED GRATE AND DOME BOTTOM STRAINERS. PROVIDE WITH J.R. SMITH TRAP INSERT.
HB-1	HOSE BIBB	-	3/4"	-	ZURN Z1321 NARROW WALL HYDRANT WITH INTEGRAL BACKFLOW PREVENTER. PROVIDE OWNER WITH ONE(1) LOOSE KEY PER HOSE BIBB. INSTALL BELOW LAVATORY WHERE SHOWN ON DRAWINGS.
HB-2	HOSE BIBB	-	3/4"	-	EVERFLOW 46124-NL BRASS BODY WITH T-HANDLE AND PLAIN END. HOSE BIBB SHALL NOT HAVE HOSE THREADS. INSTALL PER MANUFACTURERS RECOMMENDATION. INSTALL BELOW WATER COOLER FOR DRAINING TO PREVENT FREEZING.
P-1	WATER CLOSET - ADA COMPLIANT	4"	1/2"	-	FLOOR MOUNTED - KOHLER K-3519-T TANK TYPE PRESSURE ASSISTED. PROVIDE CHURCH "DURA-GUARD" MODEL # 2155 SSC SEAT AND MCGUIRE #LFBV17 STOP AND SUPPLY.
P-2	WATER CLOSET	4"	1/2"	-	FLOOR MOUNTED - KOHLER K-3531-T TANK TYPE PRESSURE ASSISTED. PROVIDE CHURCH "DURA-GUARD" MODEL # 2155 SSC SEAT AND MCGUIRE #LFBV17 STOP AND SUPPLY.
P-3	URINAL - ADA COMPLIANT	2"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND SLOAN #186 FLUSH VALVE WITH YJ BRACKET. SET LIP 17" AFF.
P-4	URINAL	2"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND SLOAN #186 FLUSH VALVE WITH YJ BRACKET.
P-5	LAVATORY - ADA COMPLIANT	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET. MUST MEET A.D.A. GUIDELINES.
P-6	LAVATORY	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET.
P-7	MOP SINK	3"	1/2"	1/2"	STERN WILLIAMS #SBC-1700 (24" X 24") COMPLETE, T-35 HOSE WITH WALL HOOK, STAINLESS STEEL BACKSPLASH AND CHICAGO FAUCET #897 FAUCET.
P-8	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY #VRCTLSCFR8SC BI-LEVEL WATER COOLER WITH BOTTLE FILLER STATION. STAINLESS STEEL CABINET AND WATERWAYS THAT ARE MANUFACTURED OF 100% LEAD FREE MATERIAL, JR SMITH #834 FIXTURE SUPPORT. BALL VALVE STOP WITH SUPPLY. SAFETY-GUARD BUBBLER. MCGUIRE FULLY INSULATE P-TRAP. MOUNT WITH LOWER SPOUT OUTLET AT 36" AFF. MUST MEET A.D.A PROVIDE WITH COLOR CHART FOR ARCHITECT COLOR SELECTION. PROVIDE CANE APRON AS REQUIRED.
P-9	ICE MACHINE	FS	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION, ROUGH AND CONNECT COMPLETE, PROVIDE BALL VALVE STOP ON SUPPLY AND PIPE WASTE(S) TO FLOOR SINK. PROVIDE WATTS LF9D ON COLD WATER SUPPLY IF REQUIRED BY LOCAL CODES. PIPE RELIEF FULL SIZE TO FS.
P-10	HAND SINK - ADA COMPLIANT	1 1/4"	1/2"	1/2"	FUTURE SINK TO BE FURNISHED BY OWNER, PROVIDE J.R. SMITH #700-M31-Z FIXTURE SUPPORT. CONTRACTOR TO TURN PIPNG OUT OF WALL AND CAP.
WH	WALL HYDRANT	-	3/4"	-	J.R. SMITH #5509-QT, WITH INTEGRAL BACKFLOW PREVENTER, LATCHING COVER, FREEZE-PROOF AND OF PROPER LENGTH FOR WALL IN WHICH INSTALLED, ALL BRONZE BOX. VALVE SEAT MUST BE ON BUILDING SIDE OF EXTERIOR WALL INSULATION. INSTALL WITH CENTER LINE 24" ABOVE FINISH GRADE. PROVIDE OWNER WITH ONE (1) LOOSE KEY FOR EACH WALL HYDRANT.

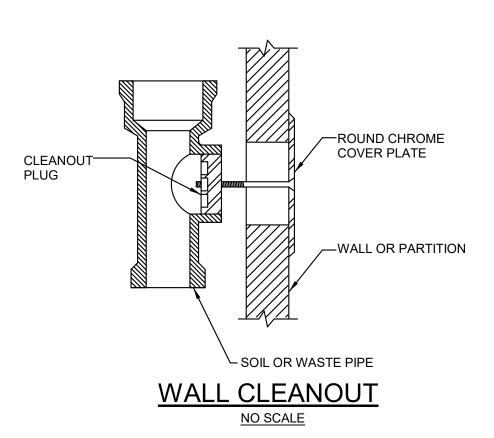
NOTE: TEMPERING VALVES ON LAVATORIES OF ALL PUBLIC LAVATORIES CONFORM TO ASSE 1070/CSA B125.3.2021 IPC 419.5 TEMPERED WATER FOR PUBLIC HAND-WASHING FACILITIES. TEMPERED WATER SHALL BE DELIVERED THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070/CSA B125.3.

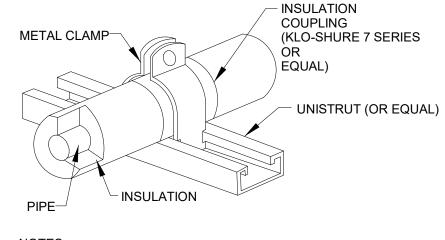
			WATER HEATER SCHEDULE
MARK	FIXTURE	ELEC INFO.	REMARKS
CP-1	CIRCULATION PUMP	115/1/60	ARMSTRONG COMPASS. PROVIDE WITH AQUASTAT EQUAL TO HONEYWELL L6006A AND TIMER.
ET-1	EXPANSION TANK	-	AMTROL THERM - X-TROL #ST-5 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
WH-1	ELECTRIC WATER HEATER	240V; 1PH; 4.5 KW	LOCHINVAR LDJ-20 AK, 20 GALLON STORAGE, 19 GALLON RECOVERY AT 100°F RISE. NEW P&T RELIEF VALVE. SET OUTLET TEMPERATURE AT 125°F. INSTALL AS DETAILED ON DRAWINGS. VERIFY VOLTAGE WITH ELECTRICAL SECTION.





NO SCALE



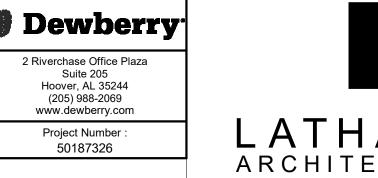


- 1. APPLICATION: FOR STRUT MOUNTED, 4 INCH AND SMALLER, COVER PIPE WITH FOAMED PLASTIC (ARMAFLEX) OR FIBERGLASS INSULATION.
- 2. ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION. 3. FOR COLD PIPE APPLICATION, APPLY ADHESIVE TO END OF FOAMED PLASTIC INSULATION PRIOR TO

INSERTING INTO COUPLING.

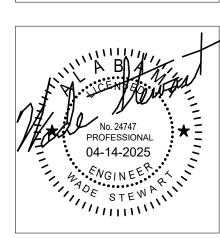
STRUT-MOUNTED PIPING SUPPORT **INSULATION COUPLING DETAIL** 

NO SCALE

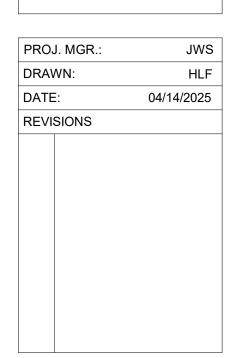


ARCHITECTS

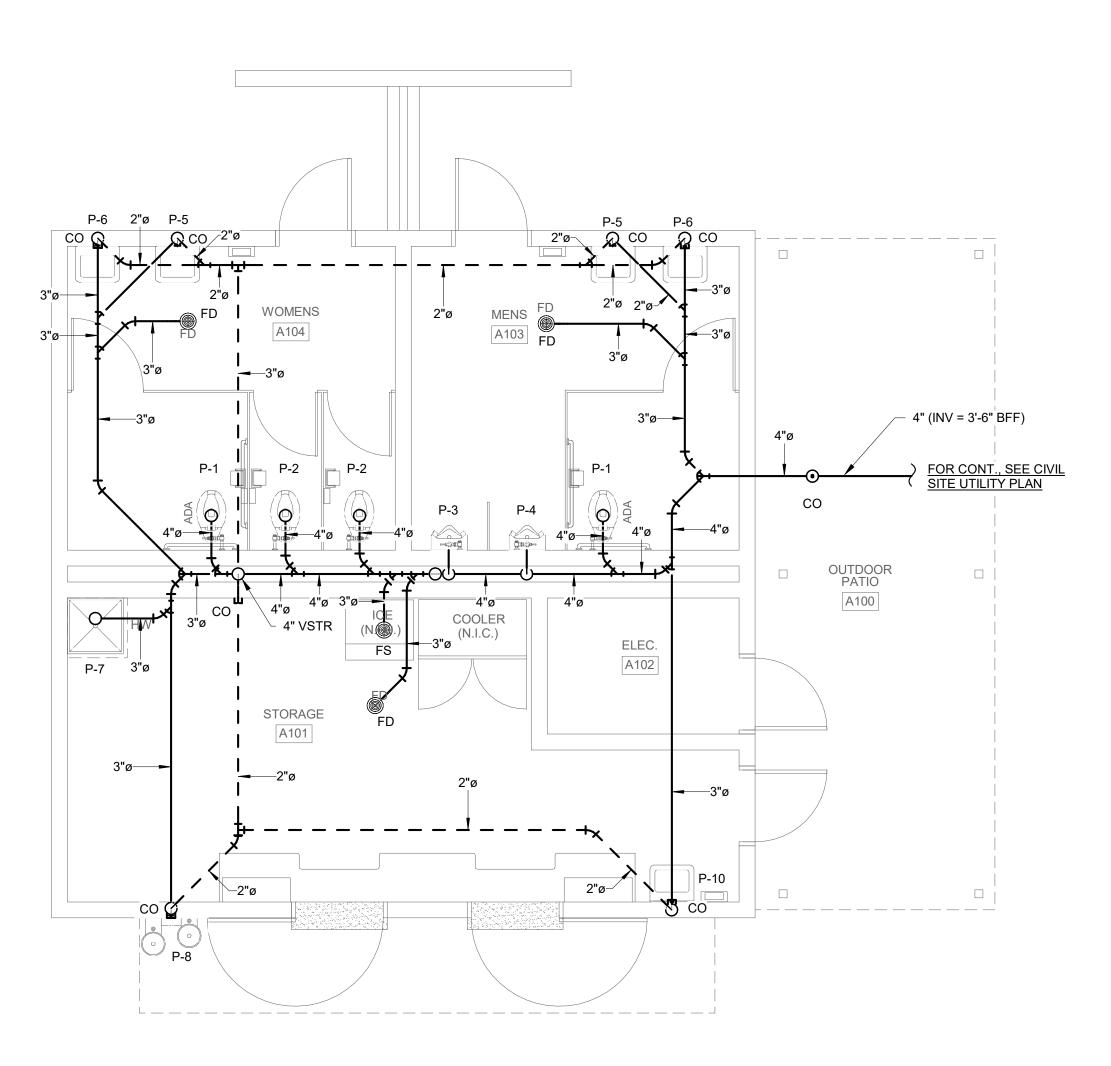
SC



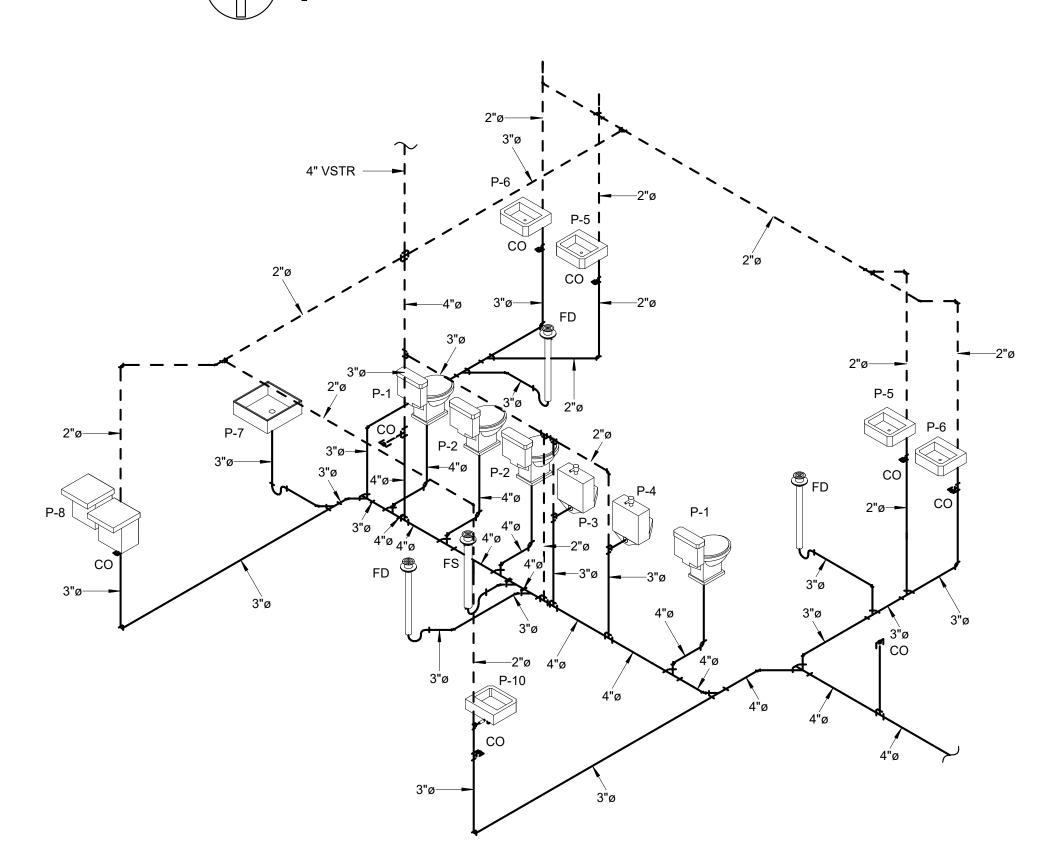
SHEET TITLE: PLUMBING SCHEDULES AND NOTES



JOB NO. 25-07 SHEET NO: 1 OF 2

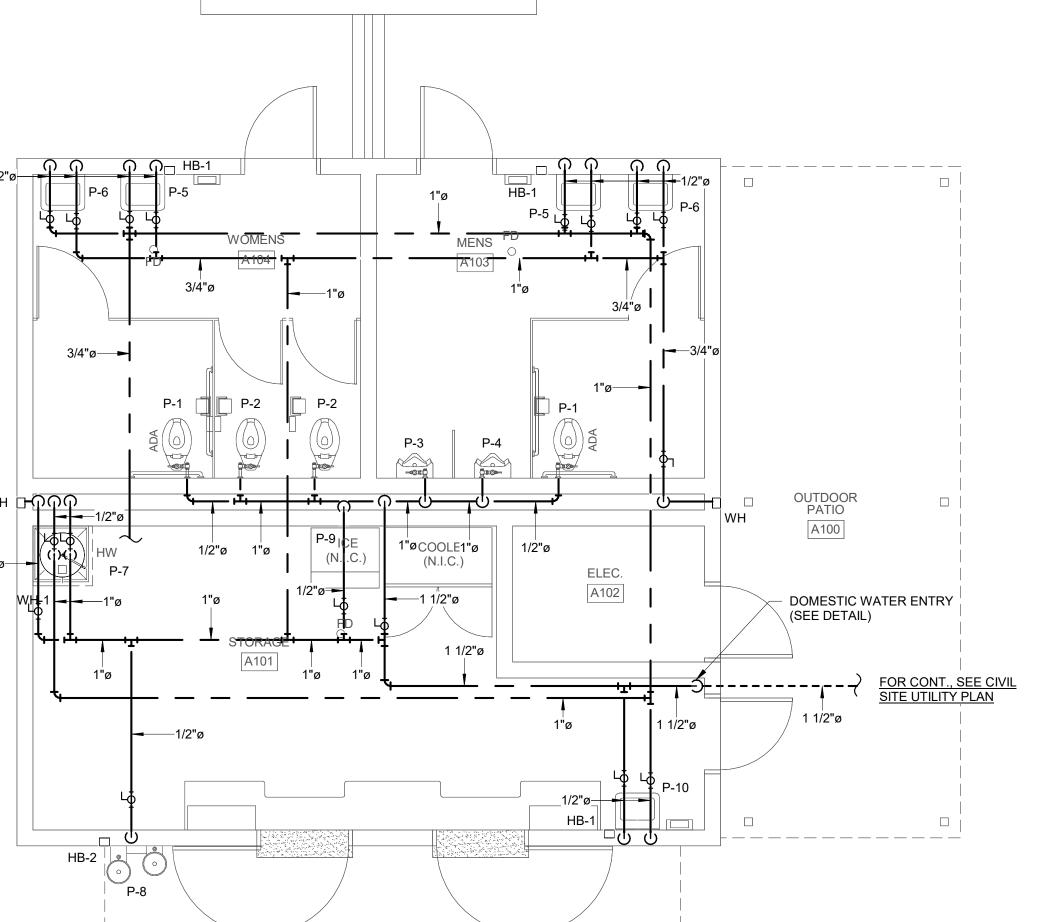


# NON-PRESSURE PIPING - FLOOR PLAN 1/4" = 1'-0"

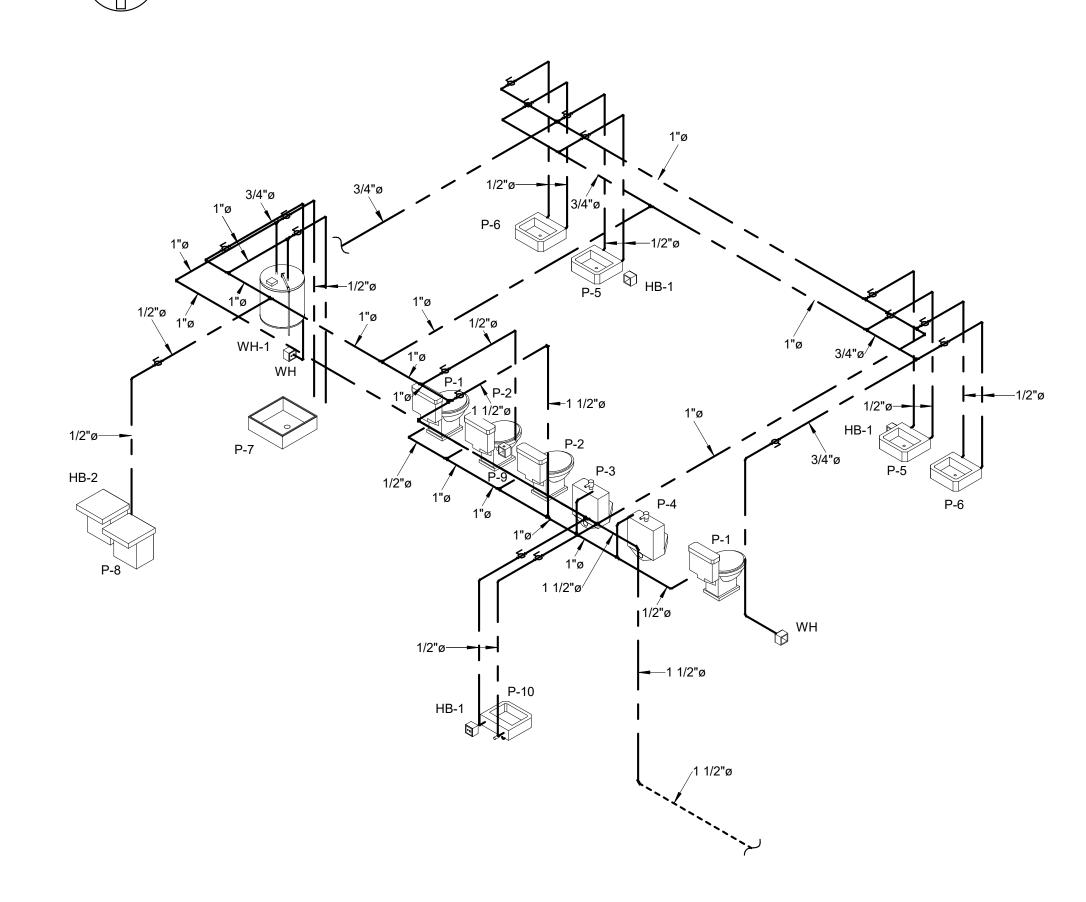




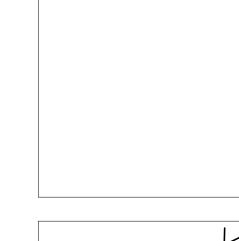




# PRESSURE PIPING - FLOOR PLAN 1/4" = 1'-0"







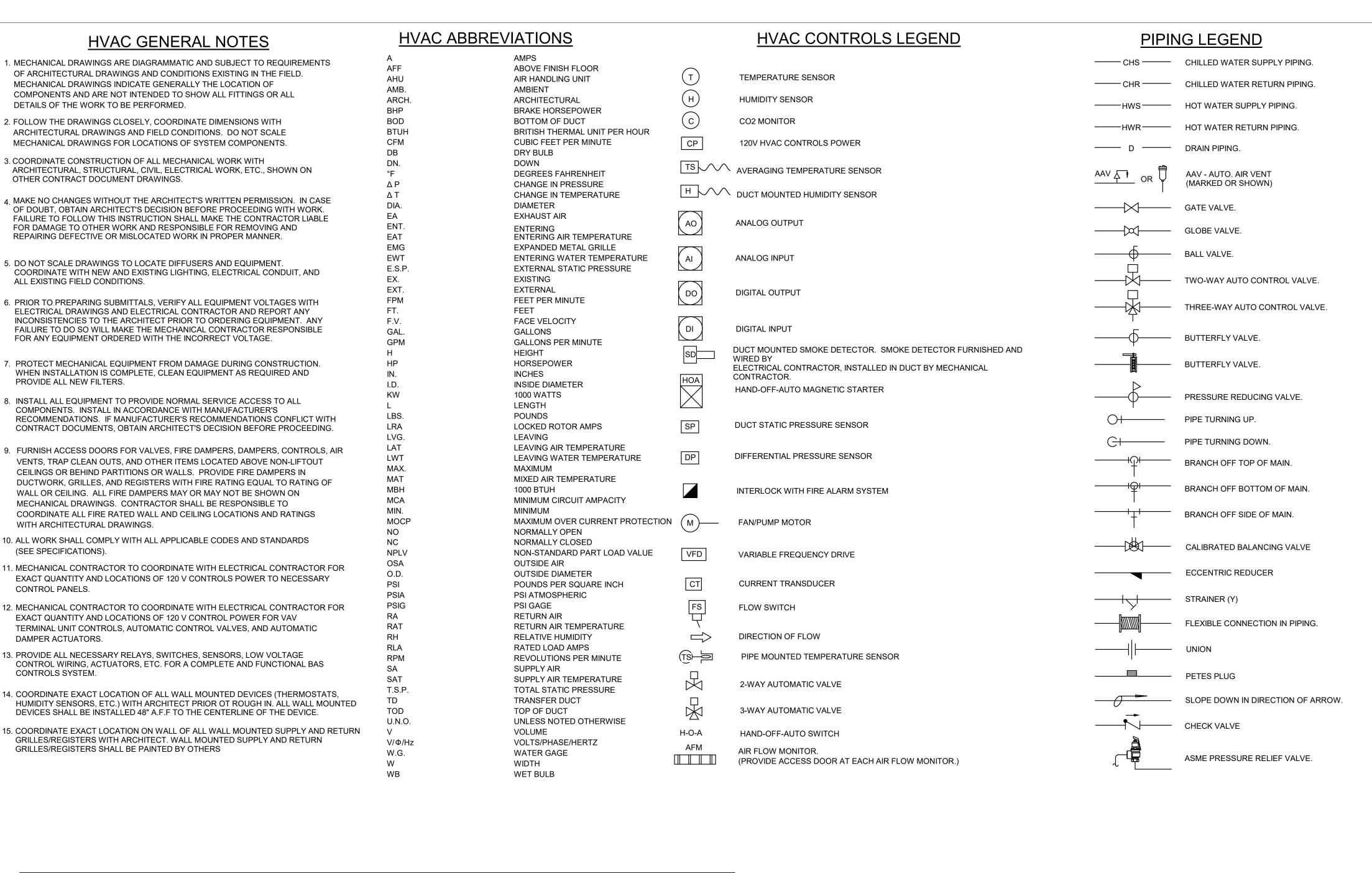


SHEET TITLE:
PLUMBING FLOOR PLANS

PROJ. MGR.:	JWS
DRAWN:	HLF
DATE:	04/14/2025
REVISIONS	

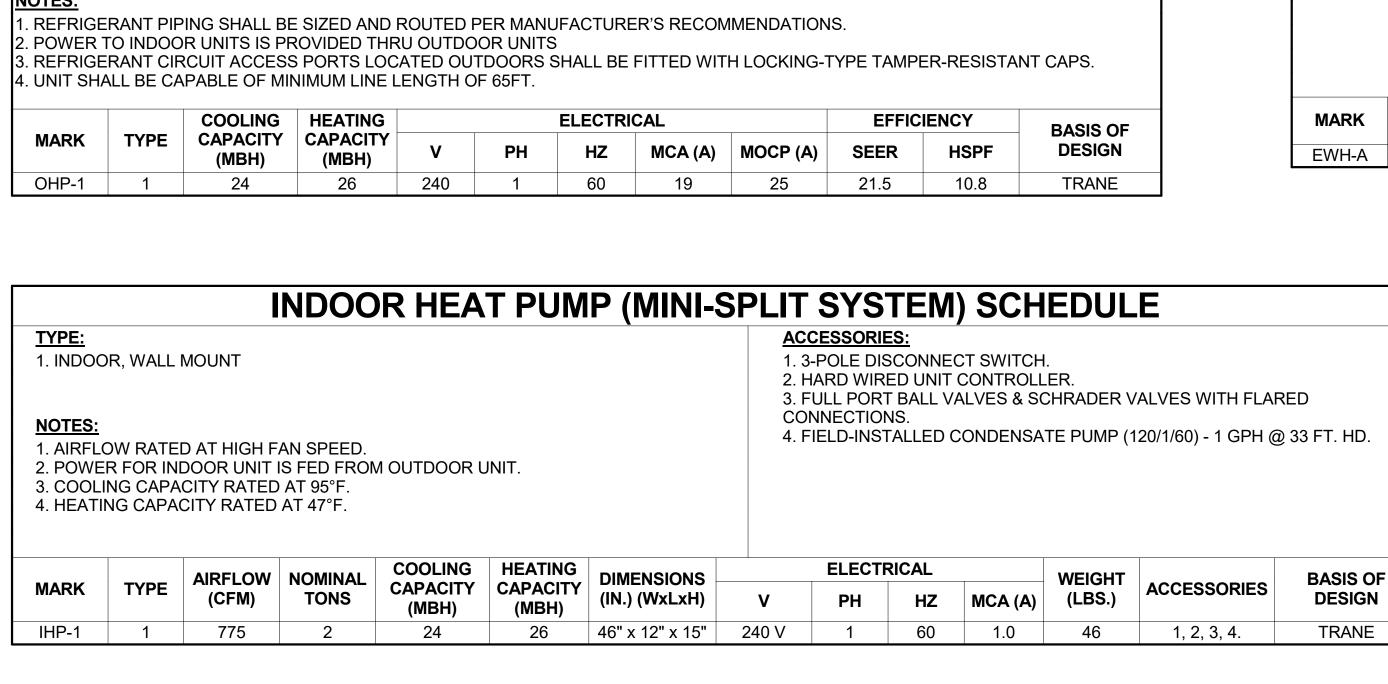
JOB NO. 25-07
SHEET NO:
P1.0

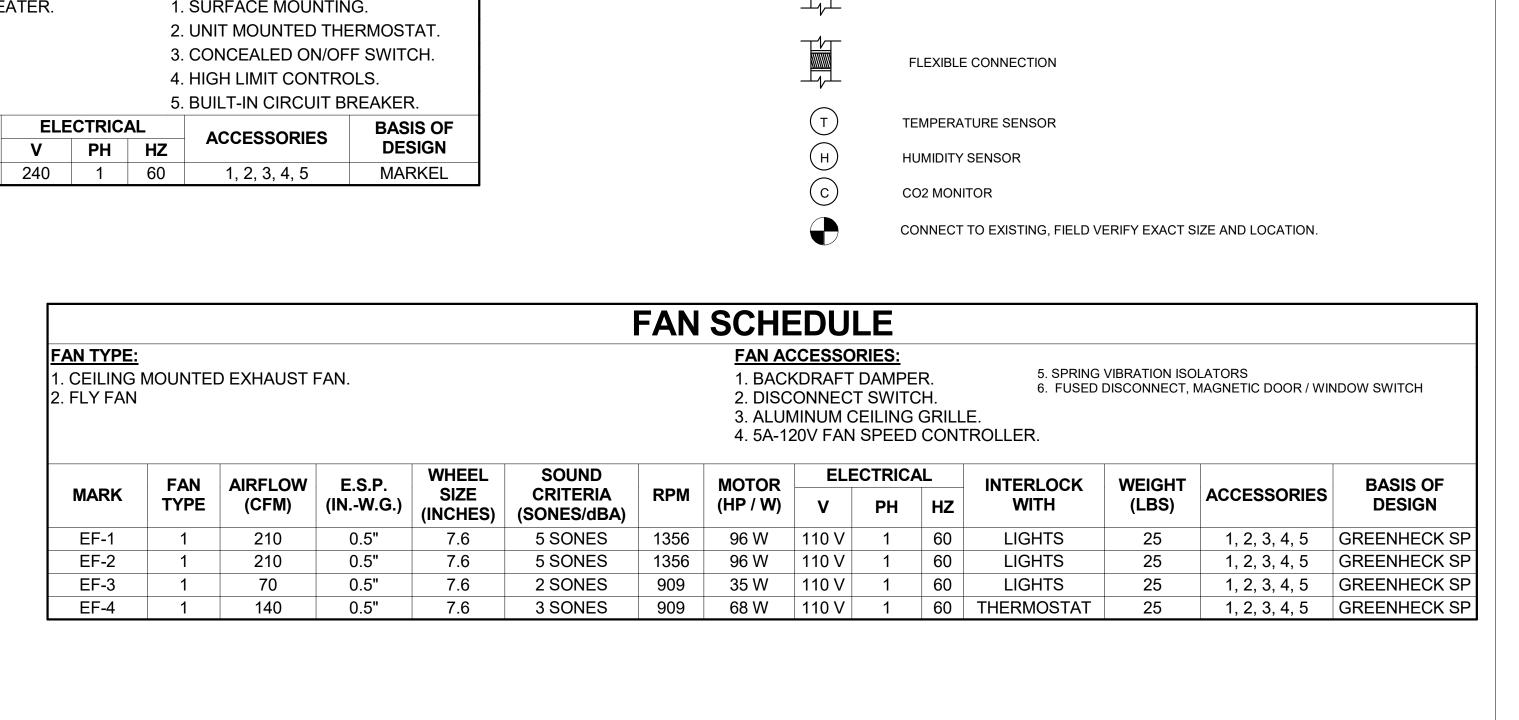
20F 2



#### OUTDOOR HEAT PUMP (MINI-SPLIT SYSTEM) SCHEDULE 1. OUTDOOR HEAT PUMP 1. REFRIGERANT PIPING SHALL BE SIZED AND ROUTED PER MANUFACTURER'S RECOMMENDATIONS. 2. POWER TO INDOOR UNITS IS PROVIDED THRU OUTDOOR UNITS 3. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS. 4. UNIT SHALL BE CAPABLE OF MINIMUM LINE LENGTH OF 65FT. COOLING HEATING **ELECTRICAL EFFICIENCY BASIS OF** MARK **TYPE** CAPACITY CAPACITY **DESIGN** (MBH)

	WAI	_L H	<b>EAT</b>	ER	<b>SCHEDUL</b>	Ε.	
<b>HEATER TY</b>	<u> PE:</u>			Α	CCESSORIES:		
1. ELECTRI	C WALL HI	EATER.		1.	. SURFACE MOUNTIN	NG.	
				2	2. UNIT MOUNTED THERMOSTAT.		
				3	. CONCEALED ON/OFF SWITCH.		
				4	4. HIGH LIMIT CONTROLS.		
				5	. BUILT-IN CIRCUIT B	REAKER.	
MADIZ	SIZE	ELE	ECTRIC	AL ACCESSORIES		BASIS OF	
MARK	(kW)	V	PH	HZ	ACCESSORIES	DESIGN	
EWH-A	3	240	1	60	1, 2, 3, 4, 5	MARKEL	







Dewberry

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Hoover, AL 35244

(205) 988-2069

www.dewberry.com

Project Number

50187326

**DUCTWORK LEGEND** 

SUPPLY DIFFUSER

RETURN GRILLE

EXHAUST GRILLE

TRANSFER AIR GRILLE

ROUND DUCT SYMBOL

FLAT OVAL TURNING UP.

FLAT OVAL TURNING DOWN.

**ROUND DUCT TURNING UP** 

**ROUND DUCT TURNING DOWN** 

5 PIECE 6" ROUND AND ABOVE

RISE OR DROP IN DUCT

WITH MANUAL DAMPER

MANUAL DAMPER

**AUTOMATIC DAMPER** 

MAXIMUM 5' FLEXIBLE DUCT ALL BRANCH DUCTS

RECTANGULAR 90° ELBOW WITH TURNING VANES FOR SUPPLY.

ROUND AND FLAT OVAL ELBOWS. DIE CAST THROUGH 5" ROUND,

RECTANGULAR BRANCH OFF OF RECTANGULAR DUCT

COMBINATION SMOKE/FIRE DAMPER (PROVIDE ACCESS DOOR)

CONICAL SPIN-IN WITH MANUAL DAMPER

FIRE DAMPER (PROVIDE ACCESS DOOR)

FLAT OVAL SQUARE ELBOWS ONLY WHERE REQUIRED AND SHOWN.

RECTANGULAR DUCT (WIDTH X HEIGHT)

RECTANGULAR SUPPLY DUCT TURNING UP

RECTANGULAR SUPPLY AIR DUCT TURNING DOWN

EXISTING DUCTWORK, PIPING, OR EQUIPMENT TO REMAIN.

EXISTING DUCTWORK, PIPING, OR EQUIPMENT TO BE REMOVED.

RECTANGULAR SUPPLY DUCT FLOOR OR ROOF PENETRATION

RECTANGULAR RETURN AIR OR EXHAUST DUCT FLOOR OR ROOF

RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP

RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN

SIDEWALL REGISTER

(CFM) S

(CFM) R

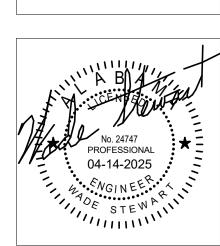
(CFM) E

(CFM) T

WXH

(CFM) SR

S



SHEET TITLE: MECHANICAL LEGEND AND SCHEDULES

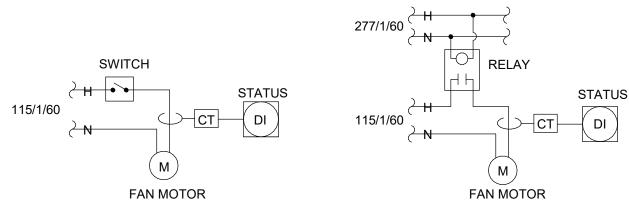
PROJ. MGR.: DRAWN: WMD 04/14/2025 REVISIONS

25-07 SHEET NO:

# **HVAC CONTROLS - GENERAL NOTES**

- MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120V CONTROL POWER NECESSARY TO CONTROL PANELS AND EQUIPMENT THROUGHOUT PROJECT.
- MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120V CONTROL POWER NECESSARY TO POWER AUTOMATIC CONTROL VALVES, AUTOMATIC DAMPER ACTUATORS, AND SMOKE DAMPER ACTUATORS.
- ALL SMOKE DETECTORS ARE PROVIDED AND WIRED BY ELECTRICAL, INSTALLED BY MECHANICAL.
- PROVIDE ALL NECESSARY RELAYS, SWITCHES, SENSORS, LOW VOLTAGE CONTROL WIRING, ACTUATORS, ETC. FOR A COMPLETE AND FUNCTIONAL CONTROL SYSTEM
- FOR ALL ROOFTOP AC UNITS AND ALL ENERGY RECOVERY UNITS, PROVIDE A FULLY FUNCTIONAL BUILDING AUTOMATION SYSTEM. PROVIDE A CONTROL PANEL. THE CONTROL PANEL SHALL HAVE A GRAPHICAL USER INTERFACE FOR EASY ADJUSTMENT OF THE CORRESPONDING AC UNIT, INCLUDING SETPOINT ADJUSTMENTS AND OCCUPIED AND
- PROVIDE LOCKING COVERS ON ALL THERMOSTATS AND CONTROL DEVICES AS INDICATED ON THE FLOOR PLANS.

UNOCCUPIED HOURS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



EXHAUST FAN CONTROLLED BY SWITCH. EXHAUST FAN CONTROLLED BY LIGHTING CIRCUIT. THE BAS SHALL MONITOR FAN STATUS VIA A CURRENT TRANSDUCER.

# **HVAC EQUIPMENT REFRIGERANT GENERAL NOTES:**

**REFRIGERANT LEAK DETECTION CONTROLS:** 

THE LEAK DETECTION SYSTEM SHALL CONSIST OF ONE OR MORE REFRIGERANT LEAK DETECTION

2. WHEN THE SYSTEM DETECTS A LEAK, THE FOLLOWING MITIGATION ACTIONS WILL BE INITIATED

C. ALL ZONING DAMPERS, SUCH AS VAV TERMINAL UNITS SHALL BE OPENED TO 100%.

DISCONNECTED, THE AC UNIT WILL INITIATE THE ABOVE MITIGATION ACTIONS. MITIGATION ACTIONS

5. THE REFRIGERANT SENSORS DO NOT NEED ROUTINE MAINTENANCE. USE ONLY MANUFACTURER-

SENSORS INSTALLED IN THE HVAC EQUIPMENT BY THE HVAC EQUIPMENT MANUFACTURER.

A. SUPPLY FANS SHALL BE ENERGIZED TO RUN AT 100% FAN SPEED.

UNTIL REFRIGERANT HAS NOT BEEN DETECTED FOR 5 MINUTES:

B. COMPRESSOR OPERATION SHALL BE DISABLED.

SHALL BE VERIFIED BY DISCONNECTING THE SENSOR.

APPROVED SENSORS WHEN REPLACEMENT IS REQUIRED.

D. ALL ELECTRIC HEAT OR GAS HEAT SHALL BE DISABLED.

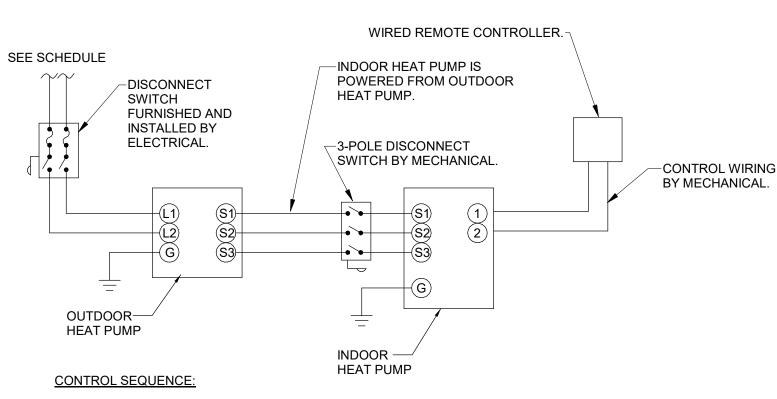
3. THE BUILDING FIRE AND SMOKE SYSTEMS SHALL OVERRIDE THIS FUNCTION.

4. IF THE REFRIGERANT SENSOR HAS A FAULT, IS AT THE END OF ITS USEFUL LIFE, OR IS

- THIS PROJECT IS DESIGNED WITH HVAC EQUIPMENT WHICH USE A2L REFRIGERANT.
- 2. THE MECHANICAL DESIGN WILL COMPLY WITH THE 2024 INTERNATIONAL MECHANICAL CODE, ASHRAE 15-2022, AND ASHRAE 34-2022.
- 3. THE INSTALLATION SHALL ALSO COMPLY WITH THESE STANDARDS.
- 4. HVAC EQUIPMENT SHALL BE MANUFACTURED TO COMPLY WITH THESE STANDARDS, AS WELL AS UL 484, UL/CSA 60335-2-40, AND UL/CSA 60355-2-89.

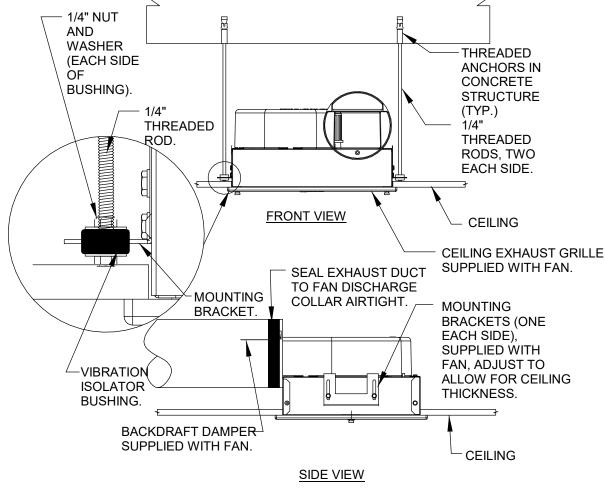
# **EXHAUST FAN CONTROLS**

NO SCALE

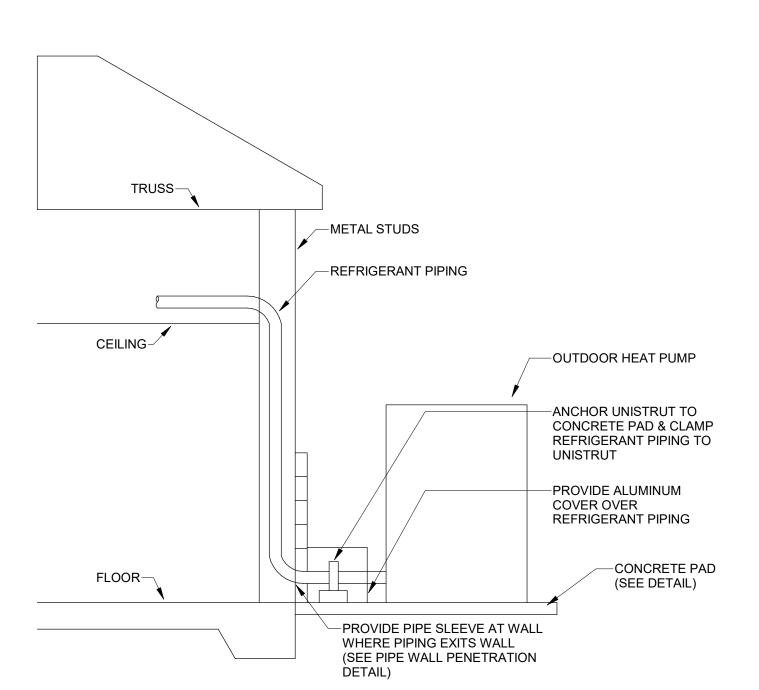


THE AC UNIT SHALL BE CONTROLLED BY A WIRED WALL MOUNTED REMOTE CONTROLLER. THE CONTROLLER SHALL CYCLE ON COMPRESSOR(S) TO MAINTAIN COOLING SETPOINT (74°F - ADJUSTABLE) AND HEATING SETPOINT (70°F - ADJUSTABLE). ALL MINI-SPLIT AC UNITS THAT SERVE ELECTRICAL AND IT ROOMS SHALL NOT SET THEIR TEMPERATURE BACK AT NIGHT. FOR ALL MINI-SPLIT AC UNITS THAT SERVE OFFICES, CLASSROOMS, ETC. SHALL SET THEIR TEMPERATURE BACK TO 4°F ABOVE SETPOINT IN SUMMER AND 4°F BELOW SETPOINT IN THE WINTER, COORDINATE WITH OWNER TO ESTABLISH OCCUPIED / UNOCCUPIED SCHEDULES.

# **DUCTLESS SPLIT SYSTEM CONTROLS**

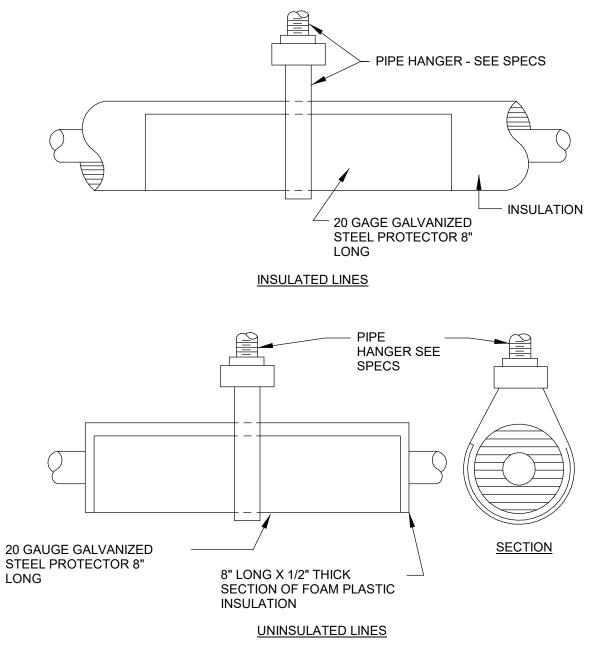


# **CEILING EXHAUST FAN DETAIL**

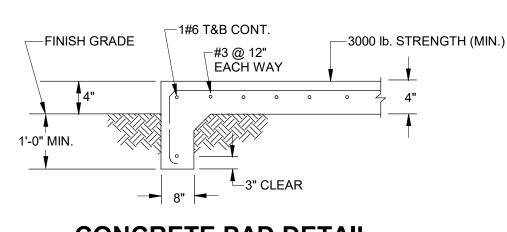


**CONDENSING UNIT INSTALLATION DETAIL** 

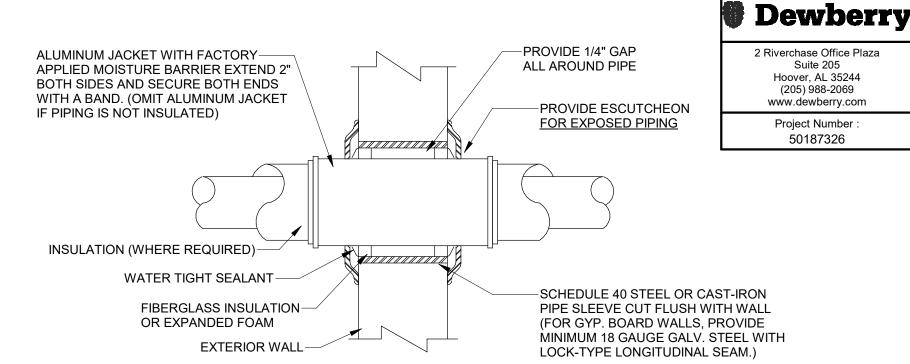
NO SCALE

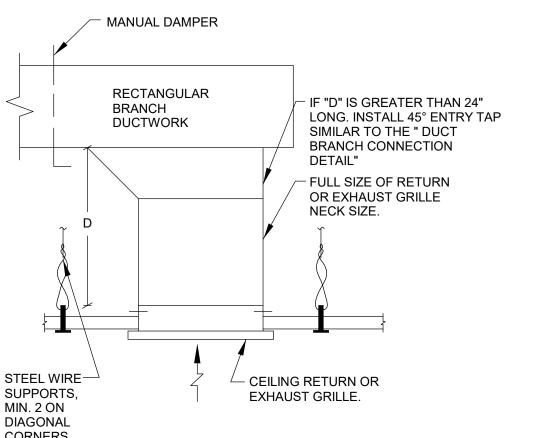


REFRIGERANT PIPING HANGER DETAIL



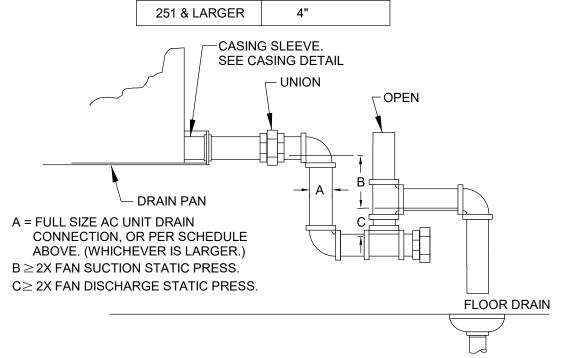




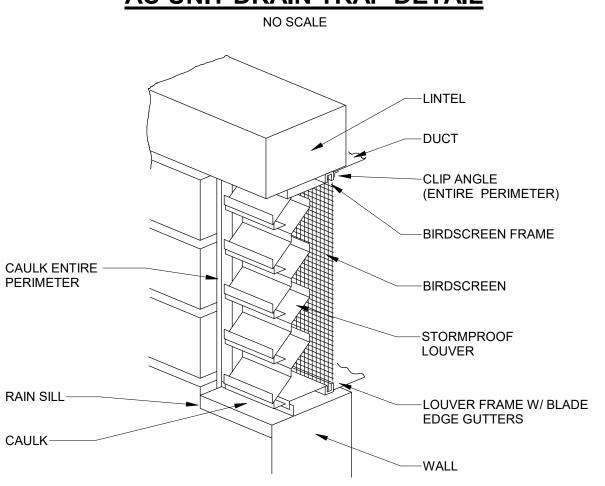


# **CEILING RETURN/EXHAUST BRANCH CONNECTION DETAIL**

MINIMUM CONDENSATE PIPE SIZE						
AC TONS MIN. DRAIN SIZE						
0 TO 20	1"					
21 TO 40	1-1/4"					
41 TO 60	1-1/2"					
61 TO 100	2"					
101 TO 250	3"					
251 & LARGER	4"					

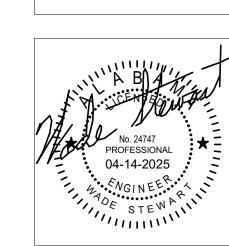


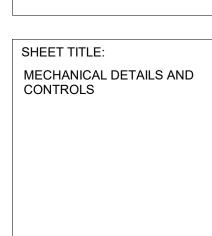
# **AC UNIT DRAIN TRAP DETAIL**



**HVAC WALL LOUVER** 

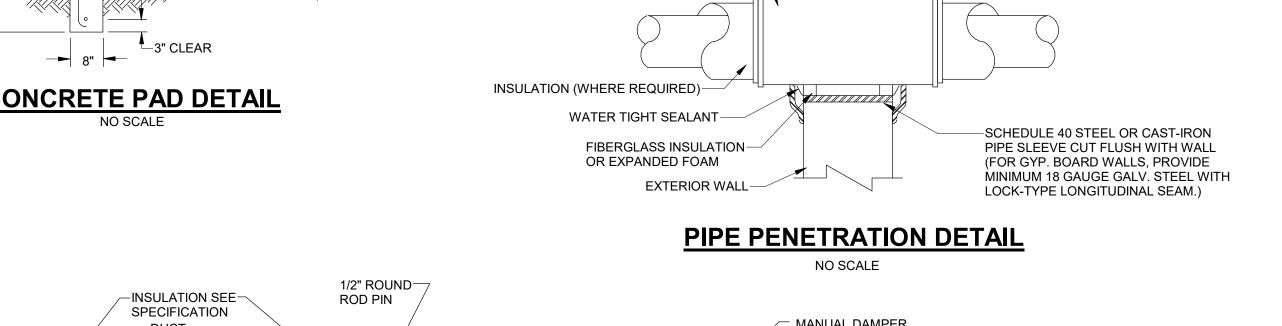
SC HIGH

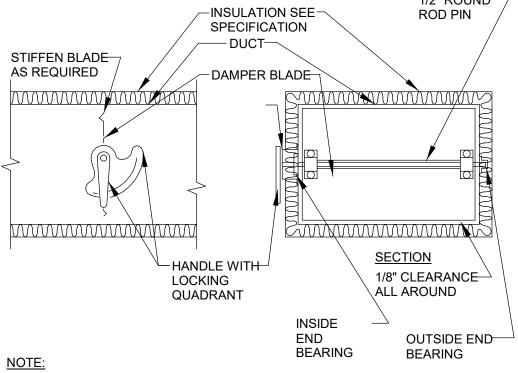




PROJ. MGR.:	V
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DATE:	04/14/20
REVISIONS	

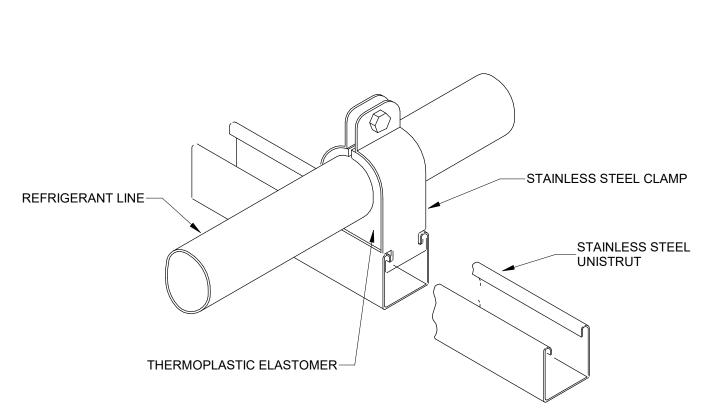
SHEET NO: 2 OF 3





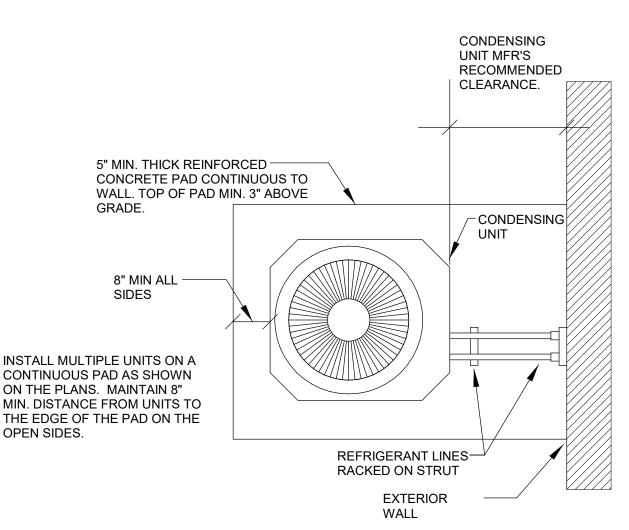
- 1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
- 2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.
- 3. MANUAL DAMPERS SHALL BE EQUAL TO RUSKIN MD35 (FOR RECTANGULAR DUCTS) AND SHALL BE EQUAL TO RUSKIN MDRS25 (FOR ROUND DUCTS).

## MANUAL DAMPER DETAIL NO SCALE

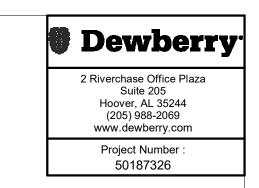


# REFRIGERANT LINE SUPPORT DETAIL

NO SCALE



**CONDENSING UNIT INSTALLATION** 







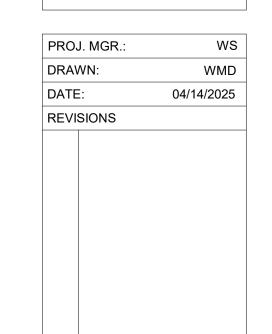
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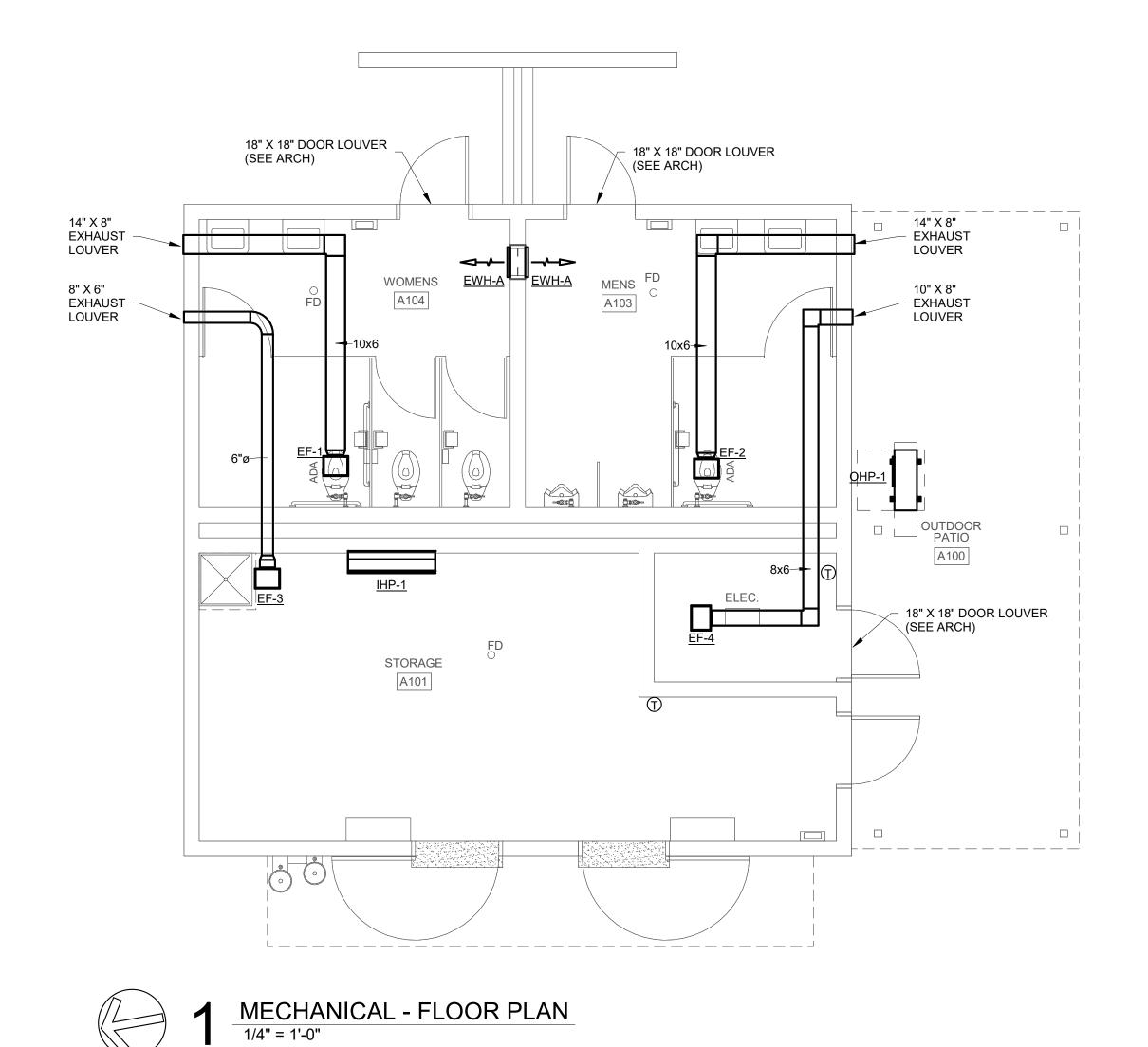
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SHEET TITLE:

MECHANICAL FLOOR PLANS,
OSA & ASHRAE
CALCULATIONS







	FD	WOMENS A104	MENS FD A103			       
1-1/4" CONDENSATE DRAIN LINE DOWN TO JANITOR SINK	EF-1			EF-2	OHP-1	
				Э	OUTDOOR PATIO	
	EF-3	IHP-1		ELEC. [A102]	REFRIGERANT LII SLAB, INTO CHAS AND TO INDOOR	NES ON   SE, UP   UNIT.
		STORAGE  A101	$\Box$			

MECHANICAL PIPING - FLOOR PLAN

1/4" = 1'-0"

OSA NATURAL VENTILATION							
ROOM	SF OF FLOOR AREA	REQUIRED AREA	OPENABLE AREA				
KOOIVI	3F OF FLOOR AREA	(SF x .04)	SF				
STOR A101	300	12	32				

ROOM NUMBER	ROOM NAME	AREA (sq. ft.)	VOLUME (cu. ft.)	CONNECTED INDOOR UNIT	CONNECTED OUTDOOR UNIT	TOTAL REFRIGERANT CHARGE (lb)	MIN. REQUIRED ROOM VOLUME (cu.ft.)	NOTES
A101	STORAGE	300	2,700	IHP-1	OHP-1	6.2	1,938	1

# PERMANENTLY ATTACH TO STRUCTURE AT ALL FOUR CORNERS SUSPENSION WIRE SHALL BE SAME GAUGE WIRE AS USED TO SUPPORT LAY-IN CEILING. NO EXCEPTIONS. PERMANENTL ATTACH TO LIGHT FIXTURE AS CLOSE TO CORNERS AS POSSIBLE.

# DETAIL - LIGHT FIXTURE SUPPORT

# LIGHTING FIXTURE SCHEDULE

MADK	MANUEACTURER	CATALOGNO		LAMPS		MOUNTING	TYPE	RECESS	DEMARKS
MARK	MANUFACTURER	CATALOG NO.	NO.	WATTS	TYPE	HEIGHT	MOUNTING	DEPTH	REMARKS
А	METALUX	24FP6440C-UNV	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	3-1/4"	
A (EM)	METALUX	24FP6440C-UNV EBPLED14W	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	3-1/4"	SEE NOTE 1
В	MCGRAW-EDISON	TT-D2-740-U-MQ- BZ-F-TR	FURNISH	HED WITH F	FIXTURE	CEILING	SURFACE		
B (EM)	MCGRAW-EDISON	TT-D2-740-U-MQ- BZ-F-TR-IBP	FURNISH	HED WITH F	FIXTURE	CEILING	SURFACE		SEE NOTE 1
С	LUMIERE	303-W1-LED81-3000- 120-T2-XX	FURNISH	HED WITH F	FIXTURE	VERIFY WITH ARCHITECT	BRACKET		
D	MCGRAW-EDISON	ISW-E02-LED-E1- BL4-BZ-TR-OSB	FURNISH	HED WITH F	FIXTURE	+9'	BRACKET		
D (EM)	MCGRAW-EDISON	ISW-E02-LED-E1- BL4-BZ-TR-BBB	FURNISH	HED WITH F	FIXTURE	+9'	BRACKET		SEE NOTE 1

- 1. FEED ALL "EM" FIXTURES WITH SWITCHED AND UNSWITCHED HOT LEGS.
- UNSWITCHED HOT LEG IS USED FOR VOLTAGE SENSING. 2. VERIFY ALL FIXTURE COLORS WITH ARCHITECT PRIOR TO SUBMITTALS.
- 3. EQUAL FIXTURES BY LITHONIA, DAYBRITE, PARKER, AND COLUMBIA WILL BE CONSIDERED APPROVED EQUALS.

# PANELBOARD SCHEDULE

MARK	TYPE		MA	INS			BRAN	CHES		LUG	TYPE	TYPE AREA PANEL		REMARKS		
MARK	TIFE	TYPE	AMPS	SERVICE	1 POLE	2 POLE	3 POLE	SPARES	SPACES	LOCATION	MOUNTING	LOCATED	FAULT CURRENT	HEMANKS		
PPB	NQOD	м/в	150	120/240V 1ø, 3W	19-20	2-20 1-25 1-30		6-20/1	9-1PS	воттом	SURFACE	ELEC A102	10,000	SEE NOTES 1, 2, 3, & 4		

NOTES:

1. ALL PANELBOARDS SHALL BE CAPABLE OF WITHSTANDING AND INTERRUPTING THE AVAILABLE FAULT CURRENTS AS LISTED ABOVE. 2. ALL PANELBOARDS SHALL HAVE MICARTA LABELS SHOWING PANELBOARD DESIGNATION, AND OPERATING VOLTAGE. 3. SHALL BE RATED FOR SERVICE ENTRANCE EQUIPMENT.

CONTRACTOR SHALL

INSTALL ALL LIGHTS

4. NO SERIES RATING WILL BE ALLOWED ON ANY PANELBOARDS

- PANELBOARD NOTES:

  1. MANUFACTURER OF SWITCHBOARDS AND/OR PANELBOARDS SHALL PERFORM FAULT CURRENT CALCULATIONS, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS, AND LABEL ALL PANELBOARDS, IN ACCORDANCE WITH NFPA 70E-2009 (ARTICLE 130) AND NFPA 70-2008 (ARTICLE 110.16).
- 2. CONTRACTOR SHALL FIELD MARK ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES

# DETAIL - P.E. CELL N.T.S.

-2 #12 & 1 #12(G)-

TORK #2101 PHOTO ELECTRIC CONTROL

3 #12 & 1 #12(G) THHN IN 3/4" C.

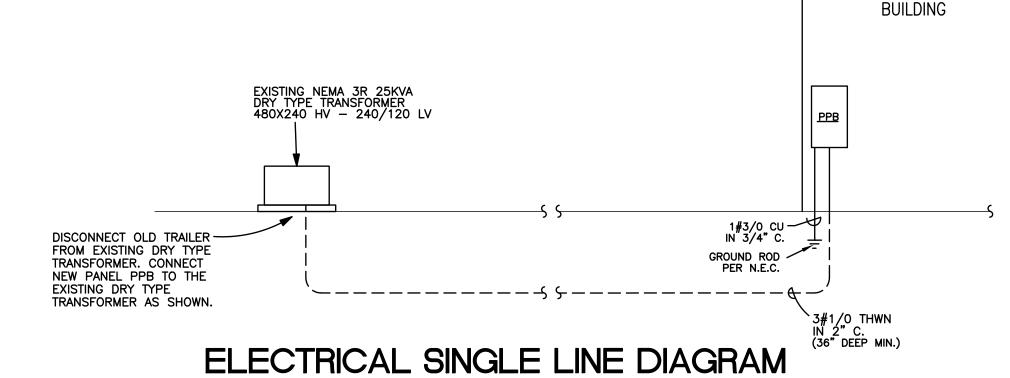
JCN. BOX

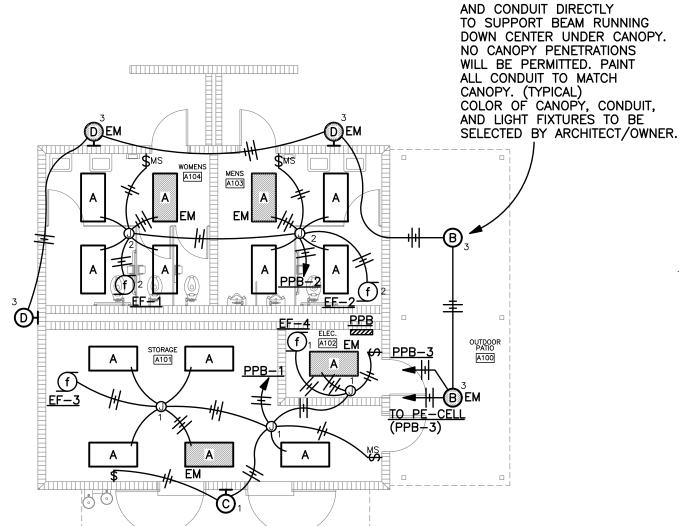
THE AVAIL	TARLE	FAUL	CUR	KENII	PER NEC I	10.24.											
CONTRAC	TOR S	SHALL	<b>FIELD</b>	MARK	ELECTRICAL	. PANELS	WITH	Α	CONSPICUOUS	AND	PERMANENT	LABEL	THAT	<b>INDICATES</b>	WHERE	PANELS	
ARE FED	FROM	/ PER	NEC	408.4(	В).												

# COLOR CODE FOR JUNCTION BOXES

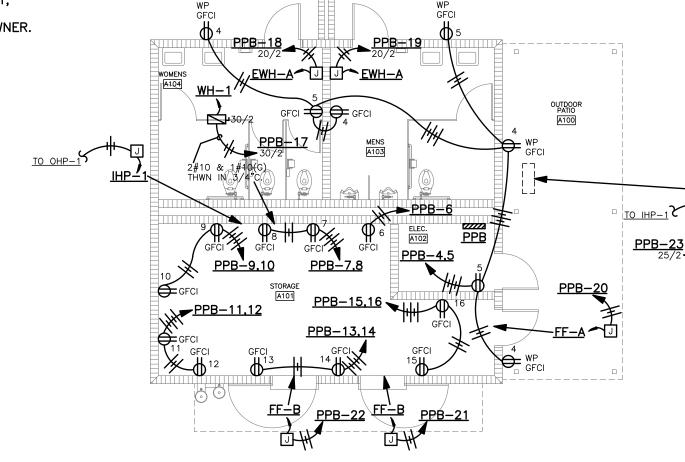
PAINT ALL JUNCTION BOXES AND COVERS WITH COLORS AS SHOWN BELOW. PAINTING COVERS ONLY IS NOT ACCEPTABLE.

FUNCTION:	COLOR:
LIGHTING	BLUE
POWER	GREEN





FLOOR PLAN - LIGHTING



FLOOR PLAN - POWER

# ELECTRICAL SYMBOLS

CEILING OUTLET - FIXTURE "A", CIRCUIT 1, SWITCH a. CEILING OUTLET - FLUORESCENT FIXTURE. CEILING OUTLET - FLUORESCENT INDUSTRIAL OR STRIP TYPE.  $\bigcirc$ WALL OUTLET - INCANDESCENT BRACKET TYPE. WALL OUTLET - FLUORESCENT BRACKET TYPE. WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR. WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR - MOUNT AT 6" ABOVE COUNTER. WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR. WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR. INSTALL #WIUC10-CAGV WEATHERPROOF COVER. DEVICE SHALL BE LABELED AS "EXTRA DUTY". FLOOR OUTLET - CONDUIT STUB UP. CEILING OUTLET - JUNCTION BOX. WALL OUTLET - JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT. SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 - GREY.("N" DENOTES NARROW) SWITCH OUTLET - AC TYPE, TWO POLE, 20A, 120/277V, HUBBELL #1222 - GREY. SWITCH OUTLET - AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 - GREY.

SWITCH MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOAD PROTECTION SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #12211LC. LIGHTING PANEL - SEE SPECIFICATIONS AND SCHEDULE. POWER PANELS - SEE SPECIFICATIONS AND SCHEDULE. BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.

SWITCH OUTLET - AC TYPE, FOUR WAY, 20A, 120/277V, HUBBELL #1224 - GREY.

HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) - 1/2" CONDUIT. 3 # 12 & 1 # 12(G) - 3/4" CONDUIT. 4 # 12 & 1 # 12(G) - 3/4" CONDUIT. EMPTY CONDUIT - 3/4".

CONDUIT RUN DOWN WALLS, CONCEALED CONDUIT RUN UP WALLS, CONCEALED MOTOR SHOWN 5hp (TYPICAL) OR

BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.

EXHAUST FAN MOTOR - FRACTIONAL HORSEPOWER. MAGNETIC MOTOR STARTER. NON-FUSED DISCONNECT SWITCH. (RT - RAINTIGHT).

ABOVE FINISHED FLOOR. VERIFY LOCATION. NATIONAL ELECTRICAL CODE.

FUSED DISCONNECT SWITCH.

BRANCH CIRCUIT EXPOSED.

GROUND FAULT CIRCUIT INTERRUPTER WEATHER PROOF

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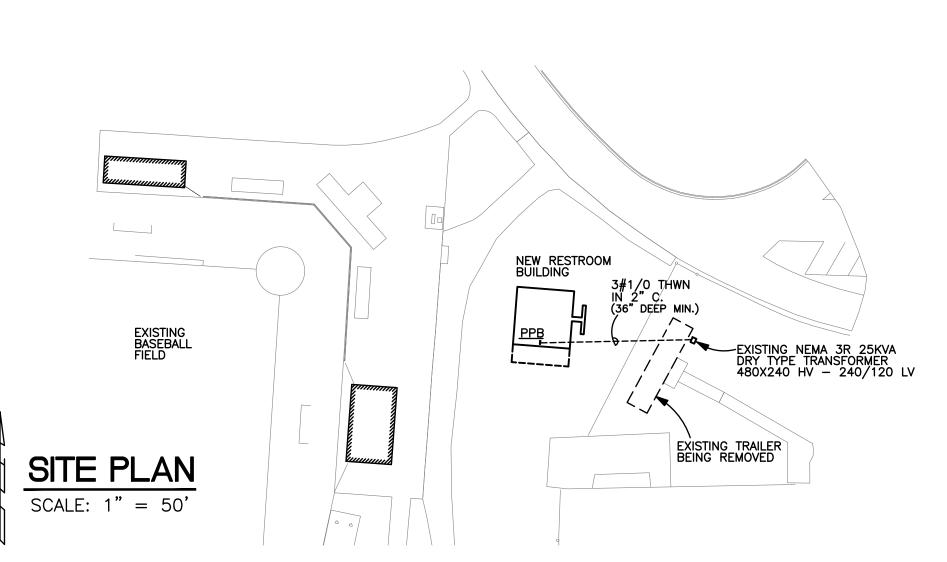
**RESTROOM** 

WALL SWITCH WITH BUILT IN MOTION SENSOR - COOPER #OSW-P-0451-W WITH WALL PLATE

# GENERAL NOTES

- SERVICE TO PROJECT IS 120/240 VOLTS, 1 PHASE, 3 WIRE.
- VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
- VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
- CONTRACTOR TO VERIFY LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF COUNTERTOPS AND BACKSPLASHES ON ARCHITECTURAL DETAILS AND/OR CASEWORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED TO AVOID CONFLICTS.
- CONTRACTOR WILL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
- FURNISH AND INSTALL PLASTER FRAMES FOR ALL RECESSED FIXTURES AS REQUIRED.
- SUPPORT OF ALL LIGHTING FIXTURES TO BE THE RESPONSIBILITY OF THIS CONTRACTOR. FIXTURES TO BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING.
- ELECTRICAL CONTRACTOR MUST CHECK THE CORRESPONDING MECHANICAL SHEETS AND BE RESPONSIBLE FOR INCLUDING PROPER SERVICE AND CONNECTIONS TO ALL MECHANICAL ITEMS SHOWN THEREON REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON
- 10. ALL CONDUIT CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
- COORDINATE SERVICES WITH POWER AND COMMUNICATIONS COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT THE CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS. THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST
- 12. IT IS INTENDED THAT SPECIFICATIONS AND PLANS SHALL INCLUDE EVERYTHING REQUIRED AND NECESSARY FOR PROPER AND COMPLETE INSTALLATION OF THE COMPLETE SYSTEMS SHOWN EVEN THOUGH EVERY ITEM MAY NOT BE PARTICULARLY MENTIONED IN DETAIL. THE CONTRACTOR SHALL DELIVER TO OTHER TRADES ANY EQUIPMENT THAT MUST BE INSTALLED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS AND COORDINATION OF THE PHYSICAL SIZE OF ALL EQUIPMENT WITH THE ARCHITECTURAL REQUIREMENTS OF THE SPACES INTO WHICH THE EQUIPMENT WILL BE INSTALLED.
- 13. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED GROUND WIRE. USE OF

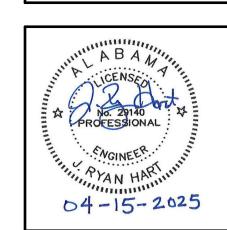
CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. (SIZE GROUND WIRES PER N.E.C.)



# STEWART ENGINEERING **ELECTRICAL CONSULTANTS**

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LATHAN ARCHITECTS



SHEET TITLE: SCHEDULES, SYMBOLS, AND NOTES

PROJ. MGR.: LANCE JUNKIN APRIL 15, 2025 REVISIONS

JOB NO. **25-07** SHEET NO: 1 OF 1