VERBENA ELEMENTARY ANNEX
CLASSROOM, KITCHEN AND ACTIVITY BUILDING ADDITIONS

4690 HIGHWAY 31, VERBENA, ALABAMA
CHILTON COUNTY BOARD OF EDUCATION

DCM NUMBER: 2025552

CONSTRUCTION DOCUMENTS
ISSUE DATE: 01/14/26

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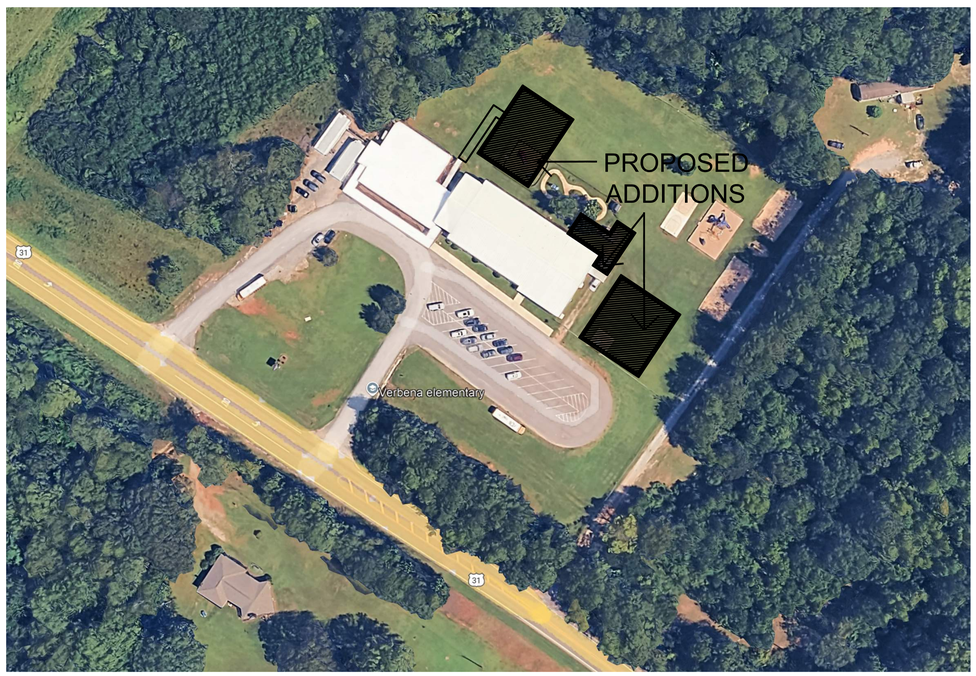
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FS102 FOOD SERVICE EQUIPMENT PLAN
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VICINITY MAP



PROJECT TEAM

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4690 HIGHWAY 31, VERBENEA, ALABAMA
CHILTON COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
KEITH SCOTT
3529
REGISTERED ARCHITECT

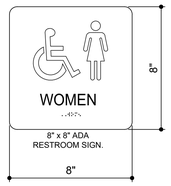
CONSTRUCTION DOCUMENTS

DATE: 1/14/26
PROJ NO: 25-060

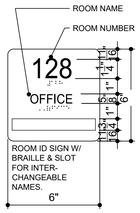
REVISIONS		
#	DESC	DATE

COVER SHEET

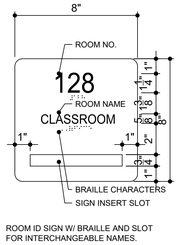
G101



SIGN TYPE "A"

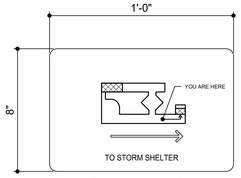


SIGN TYPE "B"



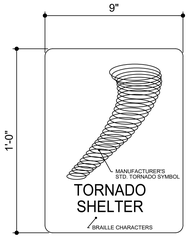
ROOM ID SIGN W/ BRAILLE AND SLOT
FOR INTERCHANGEABLE NAMES.

SIGN TYPE "C"

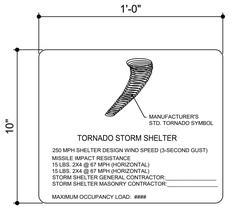


SIGNAGE TYPE D

12" x 8" IDENTIFYING SIGN
SHOWING GENERAL LOCATION OF
SHELTER IN FACILITY.
"YOU ARE HERE" LOCATION
DIFFERENT ON EACH SIGN.
5'-0" AFF TO CENTER OF SIGN.

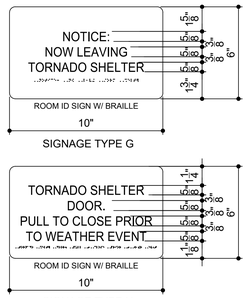


SIGNAGE TYPE E



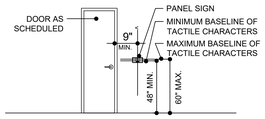
SIGNAGE TYPE F

12" x 10" IDENTIFYING SIGN
SHOWING GENERAL LOCATION OF
SHELTER IN FACILITY.
AND DESIGN INFORMATION 5'-0"
AFF TO CENTERLINE OF SIGN

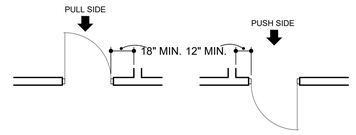


GENERAL NOTE: ALL SIGNAGE INDICATED SHALL BE MOUNTED IN ACCORDANCE WITH ADA REQUIREMENTS INDICATED IN DETAIL 13/G102

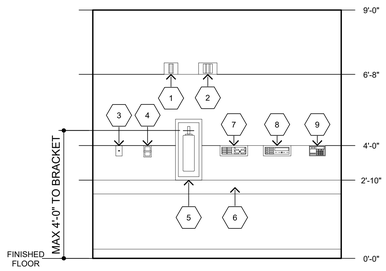
11	SIGN ELEVATIONS	N.T.S.



13	SIGN LOCATION	N.T.S.



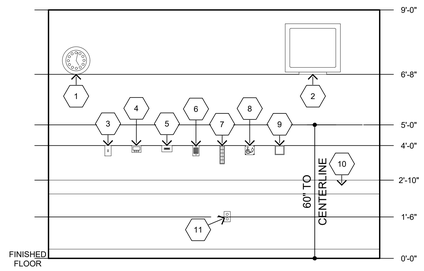
10	ADA DOOR CLEARANCES	N.T.S.



1. FIRE ALARM VISUAL STROBE.
2. FIRE ALARM AUDIO/VISUAL DEVICE.
3. FIREMAN'S TELEPHONE JACK.
4. FIRE ALARM PULL STATION.
5. FIRE EXTINGUISHER CABINET.
6. WALL MOUNTED BUMPER/CRASH RAIL.
7. FIRE ALARM PANEL.*
8. ANNUNCIATOR PANEL.*
9. SECURITY SYSTEM CONTROL.*

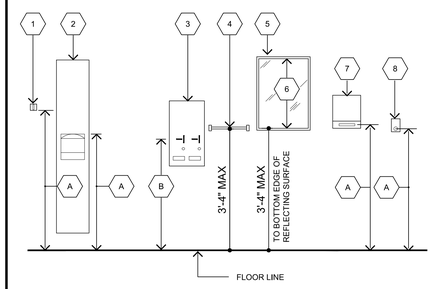
* (NOTES 7, 8 AND 9: IF OVER 3'-0" HIGH CASEWORK AND COUNTERS, ADJUST HEIGHT TO 4'-4" A.F.F. TO THE TOP OF TRIM.)

8	FIRE PROTECTION MOUNTING HEIGHTS	NTS



1. CLOCK.
2. TELEVISION MOUNTING BRACKET.
3. LIGHT SWITCH.
4. THERMOSTAT.
5. CARD READ. (SLIDE OR INSERTION).
6. KEY PAD FOR DOOR ACCESS.
7. NUMERIC KEY PAD.
8. PUSH BUTTON FOR AUTOMATIC DOOR.
9. PUSH PLATE FOR AUTOMATIC DOOR.
10. WALL MOUNTED BUMPER/CRASH RAIL.
11. ELECTRICAL RECEPTACLE.

7	STANDARD EQUIP. MOUNTING DETAIL	NTS

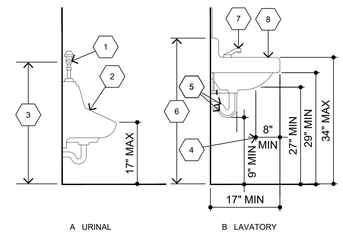


FOR ACCESSORY LOCATION AND TYPE SEE FLOOR PLAN

1. ROBE HOOK, SEE PLANS FOR TYPE.
2. TOWEL DISPENSER/WASTE RECEPTACLE.
3. SANITARY DISPENSER.
4. TOWEL BAR, SEE PLANS FOR LENGTH AND TYPE.
5. FRAMED OR UNFRAMED MIRROR. AT UNFRAMED MIRRORS, EASE ALL EDGES.
6. FOR MIRROR SIZE SEE SPECS. BOTTOM OF REFLECTING SURFACE MOUNTED AT 40" A.F.F. MAXIMUM.
7. TOWEL DISPENSER.
8. SOAP DISPENSER.

A. DIMENSION = 48" MAX.
B. DIMENSION = 3'-4" TO COIN SLOT OR HIGHEST OPERATOR.

6	TYP. TOILET ACC. MOUNTING HEIGHTS	NTS

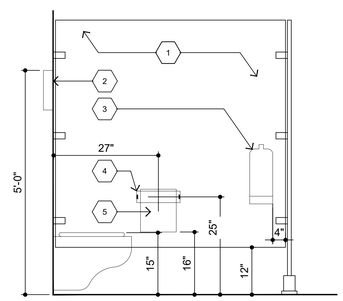


A URINAL B LAVATORY

ACCESSIBLE MOUNTING HEIGHTS

1. FLUSH VALVE, SEE PLUMBING DOCUMENTS FOR VALVE TYPE.
2. URINAL. SEE PLUMBING DOCUMENTS FOR FIXTURE TYPE.
3. VALVE CONTROL LOCATED AT 3'-8" MAX. A.F.F.
4. KNEE SPACE CLEARANCE.
5. INSULATE HOT WATER AND DRAIN PIPES WITH CLOSELY FITTED, PREFORMED INSULATION.
6. BOTTOM OF VIEWING SURFACE OF MIRROR AT 40" MAXIMUM, ABOVE FIN. FLOOR.
7. FAUCET CONTROL. SEE PLUMB. DOC.
8. BASIN DEPTH NOT TO EXCEED 6 1/2" DEEP. SEE PLUMBING DOCUMENTS FOR FIXTURE TYPE.

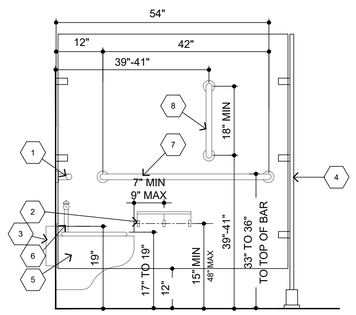
5	TOILET FIXTURE MOUNTING HEIGHTS	NTS



ELEVATION OF TOILET STALL

1. TOILET PARTITION OR RESTROOM WALL. SEE FLOOR PLANS FOR TYPE OR STYLE, I.E. CEILING HUNG OR FLOOR MOUNTED TOILET PARTITION OR DRYWALL PARTITION ETC.
2. SEAT COVER DISPENSER LOCATION. WILL BE SHOWN ON FLOOR PLAN IF REQUIRED.
3. UTILITY SHELF. LOCATE SAME SIDE AS SANITARY RECEPT. WILL BE SHOWN ON FLOOR PLAN IF REQUIRED.
4. TOILET PAPER DISPENSER REQUIRED AT EACH WATER CLOSET. LOCATE ON SIDE OPPOSITE SANITARY RECEPTACLE WHEN REQUIRED, OTHERWISE ON DOOR HINGE SIDE OF COMPARTMENT.
5. SANITARY RECEPTACLE REQUIRED AT EACH WATER CLOSET IN WOMEN'S TOILETS. IN PAIRS OF TOILET COMPARTMENTS, LOCATE ON BOTH SIDES OF THE COMMON DIVIDER PANEL. IN ODD OR SINGLE COMPARTMENTS, LOCATE ON DOOR STRIKE SIDE OF COMPARTMENT. WILL BE SHOWN ON FLOOR PLAN IF REQUIRED.

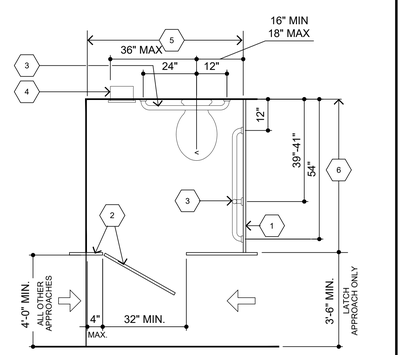
4	STANDARD STALL MOUNTING HEIGHTS	NTS



ELEVATION OF ACCESSIBLE TOILET STALL

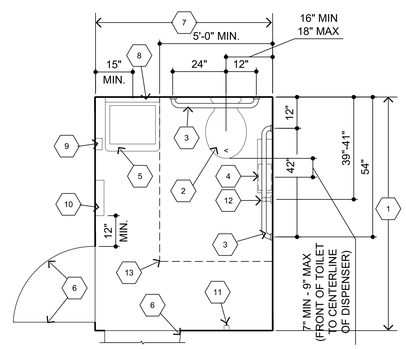
1. GRAB BAR ON BACK WALL.
2. TOILET PAPER DISPENSER-ON SIDE NEAREST TOILET.
3. RECESSED SANITARY RECEPTACLE. LOCATE ON BACKWALL ADJACENT TO TOILET OF ALL WOMEN'S AND UNDESIG. PUBLIC TOILETS. WILL BE SHOWN ON FLOOR PLAN IF REQUIRED.
4. FOR TOILET STALL PARTITION TYPE OR STYLE, I.E. CEILING HUNG OR FL. MTD. SEE PLANS.
5. FOR FIXTURE TYPE SEE PLUMBING DOCUMENTS.
6. FLUSH VALVE TO BE MOUNTED ON WIDE SIDE OF ACCESSIBLE TOILET STALL. SEE PLUMBING DOCUMENTS.
7. GRAB BAR. LOCATE ON SIDE NEAREST TOILET. SEE PLANS.
8. VERTICAL GRAB BAR. LOCATE ON SIDE NEAREST TOILET. SEE PLANS.

3	ACCESSIBLE STALL MOUNTING HEIGHTS	NTS



1. TOILET COMPARTMENT SIDE PANEL OR SIDE PARTITION, SEE PLANS FOR DESCRIPTION.
2. FRONT ACCESS COMPARTMENT DOOR AND STILE PANEL.
3. WALL MOUNTED GRAB BARS. GRAB BAR, FASTENERS, MOUNTING DEVICES TO SUPPORT AT LEAST 250 LBS.
4. RECESSED NAPKIN RECEPTACLE REQUIRED IN WOMEN'S TOILET AND UNDESIGNATED TOILETS. WILL BE SHOWN ON FLOOR PLAN IF REQUIRED.
5. WIDTH OF STALL. FOR DIM. SEE PLANS. 5'-0" MIN. CLEAR.
6. DEPTH OF STALL. FOR DIM. SEE PLANS. 4'-8" MIN. CLEAR. AT WALL MTD. WATER CLOSET, 4'-11" AT FLOOR MOUNTED WATER CLOSET.

2	TYPICAL ACCESSIBLE TOILET STALL	NTS



1. DEPTH OF TOILET ROOM 7'-8" MIN SEE PLANS FOR ACTUAL DIMENSIONS.
2. TOILET FIXTURE, TOP OF SEAT 17" TO 19" A.F.F. SEE PLUMBING FOR TYPE.
3. WALL MOUNTED GRAB BARS. MOUNTED BETWEEN 33" AND 36" A.F.F. TO TOP OF RAIL.
4. TOILET PAPER DISPENSER. MOUNTED AT 15" MIN TO 48" MAX A.F.F. TO CENTERLINE
5. WALL MOUNTED LAVATORY, TOP OF BASIN MOUNTED AT 34" A.F.F. SEE PLUMBING FOR TYPE.
6. 3'-0" DOOR LOCATIONS. SEE PLANS FOR PROJECT SPECIFIC CONDITION.
7. WIDTH OF TOILET ROOM 7'-0" MIN SEE PLANS FOR ACTUAL DIMENSIONS.
8. FRAMED MIRROR, 18" x 36". BOTTOM OF VIEWING SURFACE MOUNTED AT 40" A.F.F.
9. SOAP DISPENSER, SURFACE MOUNTED AT 48" A.F.F. MAX TO CONTROLS
10. PAPER TOWEL DISPENSER, SURFACE MOUNTED AT 48" MAX. A.F.F. MAX TO CONTROLS
11. COAT HOOK, MOUNTED AT 48" A.F.F. MAXIMUM.
12. 18" VERTICAL GRAB BAR MOUNTED 39" - 41" A.F.F. TO BOTTOM OF BAR.
13. 60"x56" CLEAR FLOOR SPACE.

1	SINGLE USER ACCESSIBLE TOILET	NTS

WARD|SCOTT|MORRIS
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CHILTON COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
KEITH SCOTT
3529
REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

DATE: 1/14/26
PROJ NO: 25-060

REVISIONS

#	DESC	DATE

GENERAL INFORMATION

G102

PLUMBING FIXTURE COUNT			
	PER IBC TABLE 2902.1	REQUIRED	PROVIDED
Classroom Addition	OCCUPANT LOAD	132	
WATER CLOSETS FEMALE	1:50	3	3
WATER CLOSETS MALE			
URINALS	NO GREATER THAN 2/3 REQUIRED	0	
LAVATORIES FEMALE	1:50	3	3
LAVATORIES MALE			
DRINKING FOUNTAINS	1 PER 100	2	2
SERVICE SINK	1	1	1
Activity Building	OCCUPANT LOAD	154 per gender	
WATER CLOSETS FEMALE	1 per 65	3	3
WATER CLOSETS MALE	1 per 125	2	2
URINALS	NO GREATER THAN 2/3 REQUIRED	0	
LAVATORIES FEMALE	1:200	1	2
LAVATORIES MALE		1	2
DRINKING FOUNTAINS	1 PER 100	2	2
SERVICE SINK	1	1	1
Kitchen Addition	OCCUPANT LOAD	13	
WATER CLOSETS FEMALE	1:25	1	1
WATER CLOSETS MALE			
URINALS	NO GREATER THAN 2/3 REQUIRED	0	
LAVATORIES FEMALE	1:40	1	1
LAVATORIES MALE			
DRINKING FOUNTAINS	1 PER 100	1	1
SERVICE SINK	1	1	1

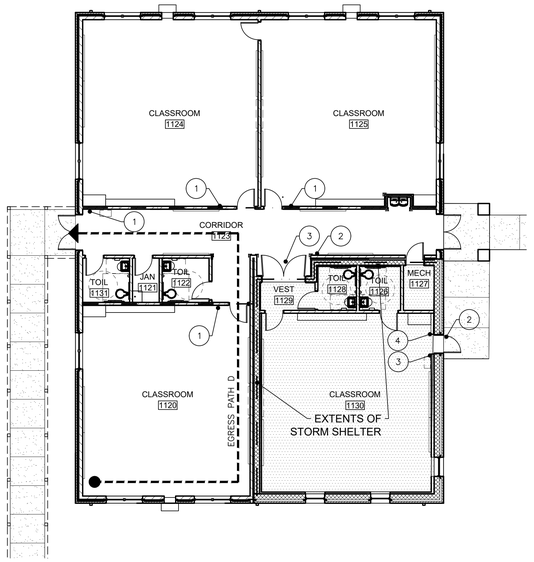
VERBENA ELEMENTARY - OCCUPANCY LOAD CALCULATIONS

OCCUPANCY TYPE	ROOM NAME	AREA	PER OCCUPANT		CODE LOAD - EGRESS	CODE LOAD - RESTROOMS	SHELTER LOAD PER ABC GUIDELINES @ 1/30 SF CR SPACE
CLASSROOM ADDITION							
Educational	Classroom	992	20	net	50	50	34
Educational	Classroom	992	20	net	50	50	34
Educational	Classroom	982	20	net	49	49	33
Educational	Classroom	912	20	net	46	46	31
Accessory Storage	Storage	91	300	gross	1	1	0
Accessory Mechanical	Mech	41	300	gross	1	1	0
ACTIVITY BUILDING							
Assembly	Multi Purpose	4533	7	net	648	303	0
Accessory Storage	Storage	225	300	gross	1	1	0
Accessory Business	Office	147	100	gross	2	2	0
Accessory Mechanical	Mech	97	300	gross	1	1	0
KITCHEN ADDITION							
Kitchen	Kitchen	1480	200	gross	8	8	0
Accessory Storage	Dry Goods/Refrig.	439	300	gross	2	2	0
Accessory Business	Office	160	100	gross	2	2	0
Accessory Mechanical	Mech	59	300	gross	1	1	0
		TOTAL NEW OCCUPANCY			862	517	132

CODE COMPLIANCE TABLE

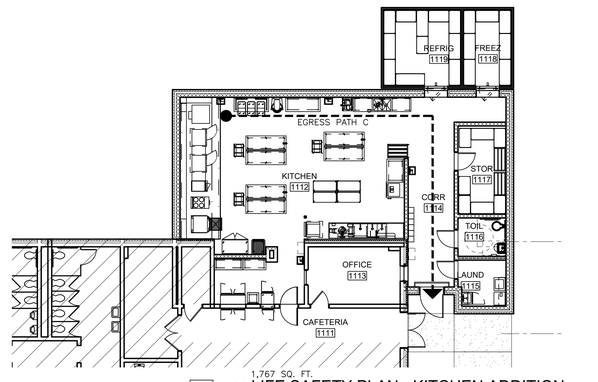
PROJECT: VERBENA ELEMENTARY ADDITIONS

APPLICABLE CODES AND STANDARDS			
CODES ADOPTED BY THE ALABAMA BUILDING COMMISSION			
IBC - INTERNATIONAL BUILDING CODE - 2021 EDITION			
IFC - INTERNATIONAL FIRE CODE - 2021 EDITION			
NEC-NATIONAL ELECTRICAL CODE - 2020			
IPC-INTERNATIONAL PLUMBING CODE - 2021			
IMC-INTERNATIONAL MECHANICAL CODE - 2021			
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	Supercedes accessibility requirements in IBC		
DESIGN COMPONENTS	**CODE APPLICATION**		**CODE REFERENCES AND NOTES**
	DESCRIPTION	**VALUE**	
USE AND OCCUPANCY CLASSIFICATION			
PRIMARY OCCUPANCY	EDUCATION GROUP E		IBC 305
SPECIAL REQUIREMENTS	STORM SHELTER REQUIRED		IBC 423.4
PROJECT LOCATION	WIND SPEED FOR TORNADOES	250 MPH	IBC FIG 423.3
SHELTER OCCUPANT LOAD	GENERAL CLASSROOM INSTRUCTION	30SF/PERS	STATE DOF BULLETIN OCT 14, 2016
TYPE OF CONSTRUCTION			IBC 601
EXISTING SCHOOL	II-B UNSPRINKLERED		IBC 602.2
CLASSROOM ADDITION	II-B UNSPRINKLERED		IBC 602.2
ACTIVITY BUILDING	II-B SPRINKLERED		IBC 602.2
KITCHEN ADDITION	II-B UNSPRINKLERED		IBC 602.2
HEIGHT RESTRICTIONS			IBC 504
TABULAR HEIGHT ALLOWED	VALUE	75 FT	IBC TABLE 504.3
TOTAL STORIES ALLOWED	TABLULAR VALUE	3	IBC TABLE 504.4
ACTUAL NO. OF STORIES		1	HEIGHT IS IN COMPLIANCE
ACTUAL HEIGHT		30 FT	HEIGHT IS IN COMPLIANCE
AREA RESTRICTIONS			IBC 506
CLASSROOM ADDITION	ACTUAL AREA	**5,462**	
ACTIVITY BUILDING	ACTUAL AREA	**5,874**	
KITCHEN ADDITION	ACTUAL AREA	**1,767**	
EXISTING SCHOOL	ACTUAL AREA	16,156	
TABULAR AREA ALLOWED	VALUE W/ SPRINKLER (E)	58,000	IBC TABLE 506.2
MIXED OCCUPANCY SEPARATION			
GROUP E OCCUPANCY	NO SEPARATION REQUIRED		IBC 303.1.3
FIRE RESISTANCE RATINGS FOR			
STRUCTURAL FRAME		0 HOUR	IBC TABLE 601
BEARING WALLS			
EXTERIOR	SEPARATION DISTANCE > 10'	0 HOUR	IBC TABLE 601 & 602
INTERIOR		0 HOUR	IBC TABLE 601
NON-BEARING WALLS AND PARTITIONS			
EXTERIOR	SEPARATION DISTANCE > 10'	0 HOUR	IBC TABLE 602
INTERIOR		0 HOUR	IBC TABLE 601
FLOOR / CEILING		0 HOUR	IBC TABLE 601
ROOF / CEILING		0 HOUR	IBC TABLE 601
FIRE RESISTANT PROTECTIVE CONSTRUCTION REQUIREMENTS			
MAX AREA OF EXTERIOR WALL OPNGS	FIRE SEPARATION DISTANCE IN UNSPRINKLERED BUILDING >/=15'	25%	IBC TABLE 705.8, SEE PLAN FOR COMPLIANCE
FIRE WALLS	TYPE II CONSTRUCTION	2 HR	IBC TABLE 706.4, NOTE A
FIRE BARRIERS			IBC 707.1
SHAFT ENCLOSURES	SINGLE STORY BUILDING	N/A	IBC 713.1, 1023.2
FIRE AREA SEPARATION	NOT APPLICABLE		
FIRE PARTITIONS - CORRIDOR WALLS	W/ SPRINKLER SYSTEM	0 HR	IBC TABLE 1020.1
SMOKE BARRIERS	NOT APPLICABLE		IBC 709
SMOKE PARTITIONS	NOT APPLICABLE		IBC 710
HORIZONTAL ASSEMBLIES	NOT APPLICABLE		IBC 711
PEDESTRIAN WALKWAYS CONNECTING PORTIONS OF SINGLE	NO SPECIAL CONSTRUCTION REQUIRED	0 HR	IBC 3104.2, EXCEPTION 1
OPENING PROTECTIVES			
OPENING FIRE RATING		N/A	IBC FIGURE 716.3(2)
SAFETY GLAZING REQUIREMENTS	HAZARDOUS LOCATIONS	N/A	IBC 2406.4
INTERIOR FINISHES			
EXIT ENCLOSURES AND PASSAGEWAYS	UNSPRINKLERED	CLASS A	IBC TABLE 803.13
CORRIDORS	UNSPRINKLERED	CLASS B	IBC TABLE 803.13
ROOMS AND ENCLOSED SPACES	UNSPRINKLERED	CLASS C	IBC TABLE 803.13
FIRE PROTECTION SYSTEMS			
AUTOMATIC FIRE SPRINKLER SYSTEM	REQUIRED FOR GROUP E OVER 12,000 SF		IBC 903.2.3
PORTABLE FIRE EXTINGUISHERS	MINIMUM TYPE 2A10BC RATED THROUGHOUT BUILDING	PROVIDED	IFC 906.1, TABLE 906.3(1)
FIRE ALARM AND DETECTION SYSTEMS	REQUIRED	PROVIDED	IBC 907.2.3
MEANS OF EGRESS			
CEILING HEIGHT	MINIMUM ALLOWED	7' - 6"	IBC 1003.2
OCCUPANT LOAD	SEE OCCUPANT LOAD TABLE		IBC TABLE 1004.5
EDUCATIONAL	NET SF / PERSON	50 SF	IBC TABLE 1004.5
ACCESSORY STORAGE & MECH.	GROSS SF / PERSON	300 SF	IBC TABLE 1004.5
BUSINESS - OFFICES	GROSS SF / PERSON	100 SF	IBC TABLE 1004.9
DEAD END CORRIDORS	MAXIMUM ALLOWED, GROUP E	50 FT	IBC 1020.5, EXCEPT. 2
COMMON PATH OF TRAVEL	MAXIMUM ALLOWED	75 FT	IBC TABLE 1006.2.1
EXIT ACCESS TRAVEL DISTANCE	GROUP E SPRINKLERED	200 FT	IBC TABLE 1017.2
NUMBER OF EXITS	MINIMUM REQUIRED: 2	9 PROVIDED	IBC TABLE 1006.3.3
REQUIRED EXIT WIDTH			IBC 1005.3.1



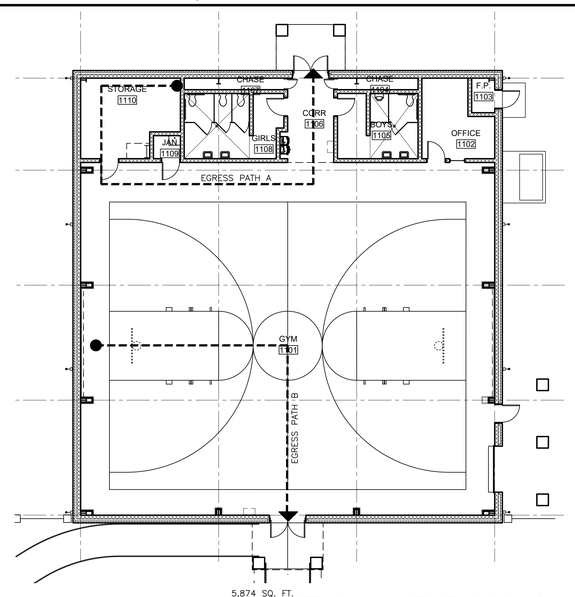
5,462 SQ. FT.

3 LIFE SAFETY PLAN - CLASSROOM ADDITION
3/32"=1'-0"



1,767 SQ. FT.

2 LIFE SAFETY PLAN - KITCHEN ADDITION
3/32"=1'-0"



5,874 SQ. FT.

1 LIFE SAFETY PLAN - ACTIVITY BUILDING
3/32"=1'-0"

LIFE SAFETY PLAN LEGEND

- EGRESS PATH
- FEC — FIRE EXTINGUISHER LOCATION
- FA — FIRST AID KIT AS REQUIRED PER ICC 500 SECTION 702.4
- 2 HOUR FIRE BARRIER FOR FIRE AREA SEPARATION PER ICC 500 SEC 601 ONLY
- 1 HOUR FIRE BARRIER FOR CORRIDOR WALLS PER IBC TABLE 1020.2
- INDICATES STORM SHELTER

REFERENCE NOTES

1. SIGNAGE TYPE "D" SEE DETAIL 11/G102
2. SIGNAGE TYPE "E" SEE DETAIL 11/G102
3. STORM RATED DOORS, ALSO 90-MINUTE RATED PER ICC 500 SEC. 601 ONLY. NO CLOSERS SHALL BE INSTALLED ON THESE DOORS AND DOORS SHALL BE ON MANUAL HOLDOPENS
4. BUILDERS INFORMATION SIGNAGE TYPE "F"

EGRESS DATA

EXIT PATH	DISTANCE
EGRESS PATH A	86'-0"
EGRESS PATH B	63'-0"
EGRESS PATH C	68'-0"
EGRESS PATH D	97'-0"

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VERBENA ELEMENTARY ANNEX CLASSROOM,
KITCHEN AND ACTIVITY BUILDING ADDITIONS
4690 HIGHWAY 31, VERBENA, ALABAMA
CHILTON COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
KEITH SCOTT
3529
REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

DATE: 1/14/26
PROJ NO: 25-060

REVISIONS

#	DESC	DATE

LIFE SAFETY PLANS

G201

ICC 500 REQUIREMENTS

PROJECT: Verbena Elementary School Classroom Addition

APPLICABLE CODES AND STANDARDS

CODES ADOPTED BY THE ALABAMA BUILDING COMMISSION

INTERNATIONAL CODE COUNCIL 500 | 2020 EDITION

CODE SECTION	CODE REFERENCES AND NOTES	NOTES/ ACTION ITEMS
104.1	ROOMS OR SPACES WITHIN OTHER USES	
	OCCUPANCY OF OCCUPIED AREA SHALL APPLY	
106	SUBMITTAL DOCUMENTS	
106.2.2	DESIGN INFORMATION LISTED IN 106.2.1 AND INSTRUCTIONS LISTED IN 106.2.6 SHALL BE DOCUMENTED OR EXPLICITLY REFERENCED ON A SINGLE SHEET WITHIN THE CONSTRUCTION DOCUMENTS	
106.2.3	WALLS AND FLOORS ENCLOSING STORM SHELTER MUST BE CLEARLY INDICATED	
106.2.4	SIGNAGE REQUIRED	SIGNAGE DETAIL INDICATED IN CONSTRUCTION DOCUMENTS
106.2.5	CONSTRUCTION DOCUMENTS MUST INCLUDE ANY MANUFACTURER DETAILS OR INSTALLATION INSTRUCTIONS FOR SYSTEMS OR EQUIPMENT DESIGNED FOR THE PROTECTION AND OPERATION OF THE STORM SHELTER	
107.1	INCLUDED QUALITY ASSURANCE PLAN TO COMPLY WITH 107.2 THROUGH 107.4	
107.2, 107.3	DETAILED REQUIREMENTS AND QUALITY ASSURANCE PLAN PREPARATION	REFER TO ENGINEER'S QAP AND SCHED OF SPECIAL INSP.
107.4	CONTRACTOR'S STATEMENT OF RESPONSIBILITY	
	WRITTEN STATEMENT TO AHJ, DESIGN PROFESSIONAL, AND OWNER	SUBMIT ABC FORM "CONTRACTOR'S STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF STORM SHELTER" - PRIOR TO COMMENCEMENT OF WORK
	1. ACKNOWLEDGE AWARENESS OF SPECIAL REQUIREMENTS	
	2. ACKNOWLEDGE CONTROL EXERCISED TO OBTAIN COMPLIANCE	
	3. PROCEDURES FOR EXERCISING CONTROL WITHIN CONTRACTOR'S ORGANIZATION	
	4. IDENTIFICATION AND QUALIFICATIONS OF PERSON EXERCISING CONTROL AND THEIR POSITIONS	
108	OWNER'S STATEMENT OF RESPONSIBILITY	
108.1	OWNER SHALL SUBMIT TO AHJ A WRITTEN STATEMENT OF RESPONSIBILITY ACKNOWLEDGING THE OWNER'S RESPONSIBILITIES REGARDING SHELTER OPERATION AND MAINTENANCE WITH THE APPLICATION FOR A CONSTRUCTION PERMIT	
108.2	OWNER SHALL SUBMIT TO AHJ A WRITTEN PREPAREDNESS AND EMERGENCY OPERATIONS PLAN PRIOR TO APPROVAL OF CERTIFICATE OF OCCUPANCY	
109	PEER REVIEW	
109.1 CONDITION2	PEER REVIEW REQUIRED OVER 16 OCCUPANTS	
109.2	OWNER SHALL EMPLOY INDEPENDENT REGISTERED DESIGN PROFESSIONAL'S TO CONDUCT A PEER REVIEW TO VERIFY COMPLIANCE	
109.3, 109.4	PEER REVIEWER TO DISCLOSE ANY CONFLICTS OF INTEREST AND QUALIFICATIONS TO AHJ	
109.5	SIGNED AND SEALED REPORT TO BE SUBMITTED ALONGSIDE CONSTRUCTION DOCUMENTS PRIOR TO ISSUANCE OF PERMIT OF CONSTRUCTION	
110	SPECIAL INSPECTIONS REQUIRED	
110.2	SPECIAL INSPECTIONS REQUIRED FOR ALTERNATIVE MATERIALS AND SYSTEMS	
111	EMPLOY REGISTERED DESIGN PROFESSIONAL TO VISUALLY OBSERVE CONSTRUCTION OF STRUCTURAL SYSTEM FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND COMPLETION OF STRUCTURAL SYSTEM.	
	REPORT DEFICIENCIES IN WRITING TO OWNER, AND AUTHORITY HAVING JURISDICTION	
	CERTIFICATION OF STRUCTURAL OBSERVATIONS - STATE THAT SITE VISITS MADE AND IDENTIFY ANY UNRESOLVED DEFICIENCIES	ABC FORM "CERTIFICATION OF STRUCTURAL OBSERVATIONS" - REQUIRED AT SUBSTANTIAL COMPLETION
112.1	IMPACT-PROTECTIVE SYSTEMS SHALL BE LISTED AND LABELED	
112.1.1	FUNCTION AND PERFORMANCE CHARACTERISTICS SHALL BE PROVIDED ON THE LABEL FOR EACH IMPACT-PROTECTIVE SYSTEM TESTED	
	1. MANUFACTURER'S IDENTIFICATION REFERENCE OR LISTING NUMBER FOR THE ASSEMBLY	
	2. TYPE OF IMPACT-PROTECTIVE SYSTEM, SUCH AS WINDOW, DOOR ASSEMBLY, SHUTTER ASSEMBLY OR LOUVER	
	3. HAZARD: HURRICANE, TORNADO, OR BOTH	
	4. MISSILE WEIGHT AND SPEED	
	5. DESIGN WIND PRESSURE	
	6. EDITION OF ICC 500	
113.1	STORM SHELTER SHALL BE EVALUATED AND MAINTAINED IN ACCORDANCE WITH ICC 500 REQUIREMENTS	
113.2	ANNUAL EVALUATIONS AND WHEN REQUEST BY THE AHJ	
	1. THE STORM SHELTER ENVELOPE SHALL BE EVALUATED THROUGH VISUAL OBSERVATION TO ASSESS WHETHER THE WALLS AND ROOFS ARE INTACT AND UNDAMAGED	
	2. IMPACT-PROTECTIVE SYSTEMS SHALL BE EVALUATED FOR COMPLIANCE WITH THE MANUFACTURER'S OPERATIONAL AND MAINTENANCE REQUIREMENTS	
113.3	STORM SHELTERS SHALL BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES. ALL STRUCTURAL AND OPERATIONAL ELEMENTS SHALL BE REPAIRED OR REPLACED WHERE DAMAGED OR FOUND TO BE INOPERABLE	
113.3.1	DAMAGED OR MISSING COMPONENTS SHALL BE REPLACED WITH COMPONENTS THAT ARE SPECIFIED WITHIN THE TESTED OR LISTED ASSEMBLY	
113.3.2	REPLACEMENT SHALL COMPLY WITH APPLICABLE ICC 500 REQUIREMENTS	
113.4	OWNER SHALL KEEP A RECORD OF ALL EVALUATIONS, TESTS, REPAIRS, REPLACEMENTS, MAINTENANCE AND OTHER OPERATIONS ON THE PREMISES OR OTHER APPROVED LOCATION THAT CONSISTS OF ALL CHANGES TO THE ORIGINAL STORM SHELTER ENVELOPE OR IMPACT-PROTECTIVE SYSTEMS	
	RECORDS SHALL INCLUDE THE DATE AND PERSON CONDUCTING THE ELVALUATIONS AND MAINTENANCE OR REPAIRS	
301-304	COMPLY WITH OUTLINED STRUCTURAL AND LOAD DESIGN REQUIREMENTS	
306	COMPONENT TESTING REQUIRED	
TABLE 305.1.1	MUST WITHSTAND 100 MPH 15lb 2X4 FOR VERTICAL SURFACES AND 67 MPH 15lb 2X4 FOR HORIZONTAL SURFACES	PROCEDURES TO FOLLOW ICC 500 CHAPTER 8
306.6	OPENINGS > 3 1/2 SQ. IN. OR 2 1/16" IN ONE DIRECTION MUST BE PROTECTED IN ACCORDANCE WITH SECTION 306.4	
402.1	BUILDING IS CONSTRUCTED OUTSIDE OF FLOOD PLAIN	
502	OCCUPANT DENSITY	
TABLE 502.3	5 SF PER PERSON STANDING OR SEATED / 10 SF PER PERSON WHEELCHAIR BOUND	
502.4.1	CALCULATION OF SPACE - 65% AT OPEN SHELTER AREA; 65% IN CLASSROOMS; 50% IN STORAGE AND RESTROOMS	
504.4	NUMBER OF EXITS COMPLY WITH IBC OF OCCUPANT LOAD	
	DOORS SWING IN DIRECTION OF TRAVEL IN COMPLIANCE WITH IBC	
	EMERGENCY ESCAPE NOT REQUIRED WITH TWO EXITS PER 504.4	
508	SIGNAGE	REFER TO SHEET G102 FOR SIGNAGE DETAILS AND SHEET G301 FOR SIGNAGE LOCATIONS
508.2	DESIGN INFORMATION SIGNAGE REQUIRED ON OR WITHIN STORM SHELTER TO PROVIDE REQUIRED INFORMATION	
	1. DESIGN OCCUPANT CAPACITY	
	2. STORM TYPE	
	3. DESIGN WIND SPEED	
	4. EDITION OF THE ICC 500 USED FOR THE DESIGN	
	5. NAME OF THE MANUFACTURER OR BUILDER OF THE STORM SHELTER	
508.5	REQUIRED DIRECTIONAL SIGNAGE THAT MARKS THE DIRECTION OF TRAVEL WITHIN HOST BUILDING DIRECTING UNTENDED OCCUPANTS TO STORM SHELTER	
508.6	REQUIRED SIGNAGE INDICATING "TORNADO SHELTER" TO BE INSTALLED OUTSIDE STORM SHELTER ADJACENT TO EVERY ACCESS OPENING INTENDED TO PROVIDE ENTRY	
508.7	REQUIRED SIGNAGE INSTALLED INSIDE STORM SHELTER ADJACENT TO EVERY ACCESS OR EGRESS OPENING TO INDICATE TO OCCUPANTS THEY ARE LEAVING THE STORM SHELTER	
603.1	FIRE RESISTANCE RATED AT 2 HOURS REQUIRED SEPARATING SPACES DESIGNATED AS STORM SHELTERS FROM OTHER BUILDINGS	STENCELING OR IDENTIFICATION REQUIRED PER ABC MEMO DATED 11/22/22 REFER TO SHEET G201 FOR WALL LOCATIONS
604.1	FIRE EXTINGUISHER PROVIDED AT INTERIOR OF SHELTER	REFER TO SHEETS G201 AND G301 FOR FIRE EXTINGUISHER LOCATIONS
702.3	MINIMUM NUMBER WATER CLOSETS AND LAVATORIES	
TABLE 702.3	FOR OCC. LOAD > 50 TOILETS: 1 PER 250 FOR FIRST 500 THEN 1 PER 500 OCC.	RESTROOM FACILITIES PROVIDED IN COMPLIANCE WITH THESE REQUIREMENTS
702.4	VENTILATION REQUIRED	
702.4.2	MECHANICAL VENTILATION PROVIDED	
702.4.3	SEPARATED FROM EXHAUST > 10 FEET	
702.4.4	OPENING PROTECTION PROVIDED IN ACCORDANCE WITH ICC SECTION 306.4	
702.5	STANDBY POWER PROVIDED AND PROTECTED IN ACCORDANCE WITH 701.2	
702.7, 702.8	EMERGENCY AND STANDBY LIGHTING PROVIDED	
702.8, 705.2	1 FOOTCANDLE FOR 2 HOURS	
702.9	FIRST AID KIT PROVIDED	REFER TO STORM SHELTER PLAN FOR FIRST AID KIT LOCATION
801	ALL COMPONENTS AND ENVELOPE REQUIRED TO MEET WINDBORNE DEBRIS IMPACT PROVISIONS	

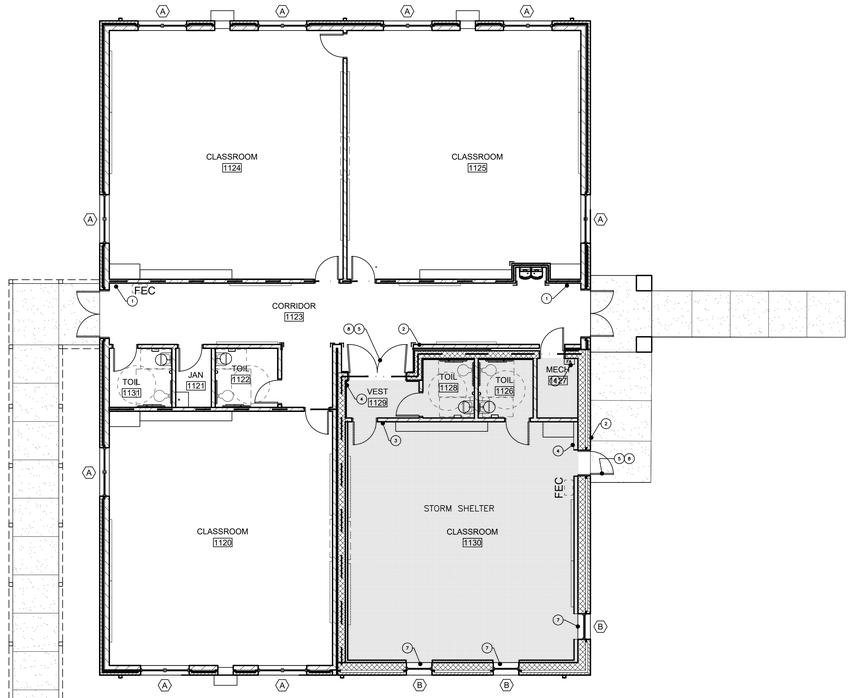
STORM SHELTER REQUIREMENTS		STORM SHELTER PROVISIONS	
4 CLASSROOMS	3858 SF	1 CLASSROOM	912 SF
TOTAL OCCUPIED CR AREA	3858 SF	USABLE FLOOR AREA AT CR	593 SF
/30 SF PER PERSON	129 OCCUPANTS		
PLUS ADDITIONAL 10%	13	TOTAL SPACE AT VEST.	45 SF
TOTAL OCCUPANT LOAD	142 OCCUPANTS	LESS 15% PER ICC 500 501.1.2.1	(7) SF
		USABLE FLOOR AREA AT CORR.	38 SF
		RESTROOMS	111 SF
		LESS 50% PER ICC 500	(56) SF
1HC OCC. @ 10 SF	10 SF	USABLE FLOOR AREA	142 SF
142 OCC. @ 5 SF	705 SF		
TOTAL SAFE SPACE REQ'D	715 SF REQUIRED	TOTAL SAFE SPACE SF PROV.	773 SF USABLE
		TOTAL AVAILABLE OCC. LOAD	154 OCCUPANTS

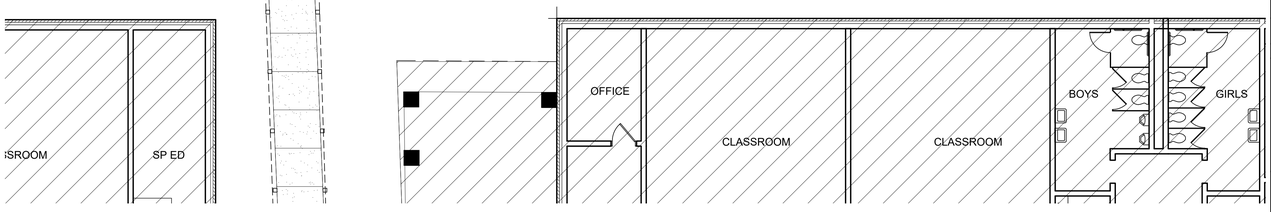
REFERENCE NOTES

1. TYPE D SIGNAGE (SEE SHEET G102)
2. TYPE E SIGNAGE (SEE SHEET G102)
3. TYPE F SIGNAGE (SEE SHEET G102)
4. TYPE G SIGNAGE (SEE SHEET G102)
5. TYPE H SIGNAGE (SEE SHEET G102)
6. FIRST AID KIT
7. SHELTER WINDOWS
8. STORM AND 90 MIN. RATED DOORS

LIFE SAFETY PLAN LEGEND

- 2 HOUR FIRE BARRIER (PER ICC500 SEC 603)
- 1 HOUR FIRE BARRIER (PER IBC SEC 1020.2)
- FIRE EXTINGUISHER LOCATION
- FA — FIRST AID KIT LOCATION
- FEC — FIRE EXTINGUISHER IN RECESSED CABINET





1 STORM SHELTER PLAN
1/8"=1'-0"

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STATE OF ALABAMA
KEITH SCOTT
3529
REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

DATE: 1/14/26
PROJ NO: 25-060

REVISIONS

#	DESC	DATE

STORM SHELTER PLAN

G301

CHILTON COUNTY

CHILTON COUNTY BOARD OF EDUCATION
CONTACT: MR. BILLY WYATT
BGWYATT@CHILTONBOE.COM
(205) 296-0274 (CELL)

WATER

CHILTON WATER AUTHORITY
CONTACT: MR. CHRIS LENOIR
(205) 351-1492 (CELL)

ADPH

CHILTON COUNTY HEALTH DEPARTMENT
CONTACT: MR. JASON ROBISON
(205) 3755-1287 (OFFICE)

ALDOT

DISTRICT COORDINATOR
CONTACT: MR. DANIEL HALLMON
(334) 366-2954 (CELL)

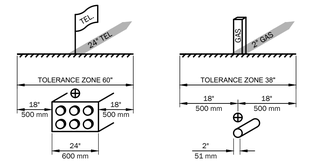
EXISTING UTILITY NOTES

APWA UNIFORM COLOR CODE
FOR MARKING UNDERGROUND UTILITY LINES

WHITE - Proposed excavation
PINK - Temporary survey markings
RED - Electric Power Lines, Cables, Conduit and Lighting Cables
YELLOW - Gas, Oil, Steam, Petroleum or Gaseous Materials
BLUE - Potable Water
PURPLE - Reclaimed Water, Irrigation and Slurry Lines
GREEN - Sewers and Drain Lines

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ANY EXCAVATION WITHIN THE TOLERANCE ZONE SHOULD BE PERFORMED WITH NON-POWERED HAND TOOLS OR NON-INVASIVE METHODS UNTIL THE MARKED FACILITY IS EXPOSED. THE WIDTH OF THE TOLERANCE ZONE MAY BE SPECIFIED IN LAW OR CODE. IF NOT, 500 mm (18") IS REQUIRED FROM EACH SIDE OF THE FACILITY. THE TOLERANCE ZONE INCLUDES THE WIDTH OF THE FACILITY PLUS 18" (500 mm) MEASURED HORIZONTALLY FROM EACH SIDE OF THE FACILITY.

GENERAL PROJECT NOTES

1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AS PROVIDED BY UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES "POTHOLING" THEM BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ALABAMA ONE-CALL, & CHILTON WATER AUTHORITY, ETC. FOR UTILITY LOCATES. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED AND REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
2. ANY EXISTING PROPERTY CORNERS (I.E.- IRON PIPES,CAPPED PIPES, CAPPED MONUMENTS, ETC), DISPLACED OR DAMAGED DURING CONSTRUCTION SHALL BE RESET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE A FINAL PUNCH LIST/CLOSEOUT ITEM. PROJECT PROPERTY CORNERS SHALL BE STAKED AND FLAGGED BY THE OWNER'S REPRESENTATIVE.
3. ALL EXISTING FENCES SHALL BE REMOVED AND/OR RELOCATED DURING CONSTRUCTION AS NECESSARY. THE FENCING SHALL BE REPLACED IN EQUIVALENT OR BETTER CONDITION AFTER THE WORK REQUIRING THE FENCE REMOVAL IS COMPLETED. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN. ANY DAMAGED FENCING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. PORTIONS OF THE EXISTING FENCE SHALL BE RETAINED AND PORTIONS REMOVED. SEE CONSTRUCTION PLANS FOR FURTHER INFORMATION.
4. THE CONTRACTOR MUST MAINTAIN ACCESSIBLE DRIVES AND PUBLIC ROADWAYS. ANY ADDITIONAL STONE, GRADING, INSTALLATION, ETC. TO MAKE SIDEWALKS, DRIVES, AND ROADWAYS ACCESSIBLE DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
5. THE CONTRACTOR SHALL KEEP THE PROJECT RIGHTS-OF-WAY CLEAN FROM TRASH AND DEBRIS. PLACEMENT/DISCARDING OF TRASH AND REFUSE IN UTILITY TRENCHES AND/OR OTHER EXCAVATIONS ASSOCIATED WITH THE PROJECT SHALL BE PROHIBITED. THE CONTRACTOR SHALL PROVIDE TRASH RECEPTACLES FOR WORKER USE. THE ROADWAYS AND SIDEWALKS SHALL BE SWEPT AND WASHED DOWN TO LIMIT THE TRACKING OF DIRT FROM THE PROJECT ONTO PUBLIC RIGHTS-OF-WAY DAILY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
6. CONFLICTS MAY ARISE BETWEEN EXISTING AND PROPOSED UNDERGROUND FACILITIES. CROSSINGS OF REQUIRED AND EXISTING GRAVITY UTILITIES SHALL BE EXCAVATED AND ELEVATIONS VERIFIED AT THE BEGINNING OF THE PROJECT BEFORE ANY UTILITIES ARE INSTALLED TO MAKE SURE THERE ARE NO CONFLICTS. SOME OF THE EXISTING UTILITY STRUCTURES WERE BURIED AND INACCESSIBLE DURING THE TOPOGRAPHIC SURVEY OF THE PROJECT AREA. WHEN THESE CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE. ADJUSTMENTS AS SPECIFIED BY THE OWNER'S REPRESENTATIVE SHALL BE MADE IN THE PROPOSED AND/OR EXISTING FACILITIES. IF CONFLICTS OCCUR WHILE INSTALLING GRAVITY UTILITIES AND THE CONTRACTOR DID NOT IDENTIFY ELEVATIONS AT CROSSINGS IN ADVANCE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTIVE ACTION, INCLUDING BUT NOT LIMITED TO, REMOVING AND INSTALLING THE MAIN AND/OR STRUCTURES. WITH THE NUMEROUS EXISTING UTILITIES ON-SITE, IT IS IMPERATIVE THAT THESE BE VERIFIED BEFORE INSTALLATION OF PROPOSED WORK.
7. AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SURFACES (I.E., CURB AND GUTTERS, SIDEWALK, DRIVES, STORM SEWER BOXES, BRICK PAVERS, EXISTING BUILDING BRICK, ETC.), SPECIFICALLY EXISTING CONCRETE ABUTTING REQUIRED CONCRETE SURFACES WITHIN THE PROJECT RIGHT-OF-WAY TO ELIMINATE STAINING FROM EARTHEN MATERIAL, CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
8. THERE SHALL BE NO RAISED ASPHALT "LIP" AT RAMP LOCATIONS. THE EXISTING ROADWAY BUILDUP SHALL BE PLANED/MILLED SUFFICIENTLY TO ALLOW THE FINAL ASPHALT OVERLAY OR WEARING SURFACE TO FIT FLUSH AGAINST THE EDGE OF GUTTER ALONG THE ENTIRE PROJECT.
9. EXISTING LANDSCAPED AREAS PARALLEL TO THE PROJECT IMPACTED/DAMAGED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.
10. ALL ACCESSIBLE RAMPS AND SIDEWALKS SHALL BE ADA COMPLIANT.
11. ALL TEMPORARY STONES FOR ROADWAY, SIDEWALK, DRIVES, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO TEMPORARY STONES SHALL BE WASTED ON THE SITE SPECIFICALLY IN THE FINAL SUBGRADE LAYER AND TOPSOIL. EXCESSIVE STONE WILL INHIBIT THE GROWTH OF THE LANDSCAPE. ALL STONE SHALL BE REMOVED FROM AREAS TO RECEIVE TOPSOIL, NO EXCEPTIONS.
12. THE CONTRACTOR SHALL INSTALL TEMPORARY ASPHALT PATCHING WITHIN 24 HOURS AFTER THE COMPLETED INSTALLATION OF UTILITY CROSSINGS ON ROADWAYS OPEN TO TRAFFIC. IF THE ROADWAY IS CLOSED TO LOCAL TRAFFIC THEN ALL ASPHALT CUT LOCATIONS SHALL BE PATCHED BEFORE THE ROADWAY IS REOPENED. THE CONTRACTOR SHALL NOT BE ALLOWED TO INSTALL ALL UTILITIES AND THEN TEMPORARY ASPHALT PATCH ALL AT ONE TIME. TEMPORARY ASPHALT PATCHING MUST OCCUR PERIODICALLY PHASED AS REFERENCED ABOVE.
13. WHEN TEMPORARY ASPHALT PATCHING OCCURS THE MIX SHALL BE HOT MIXED AS SPECIFIED IN THE PLANS. ASPHALT COLD MIXES SHALL NOT BE ACCEPTED. POORLY PATCHED CROSSINGS DISPLAYING NONUNIFORM, UNSMOOTH FINISHES SHALL NOT BE ACCEPTED AND SHALL BE REMOVED AT ONCE. THE REPATCH OF THE AREA SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL RETAIN AS MUCH EXISTING PAVEMENTS ASSOCIATED WITH THE PROJECT AS POSSIBLE FOR ALL WEATHER WORKING SURFACE AND FOR EROSION CONTROL DURING CONSTRUCTION. AS THE PROJECT PHASES TO FINAL COMPLETION, THE CONTRACTOR SHALL REMOVE ALL REMAINING PAVEMENTS, ETC. TO COMPLETE THE FINAL IMPROVEMENTS AS SHOWN.
15. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH VERBENA ELEMENTARY SCHOOL, CHILTON WATER AUTHORITY, ALDOT, PRIVATE UTILITY COMPANIES, AND ANY OTHER OWNER OR GOVERNING AGENCY WITH EXISTING INFRASTRUCTURE OR JURISDICTION IN THIS AREA.
16. THE CONTRACTOR SHALL PROVIDE AND INCLUDE IN THEIR BID ALL REQUIRED CONSTRUCTION STAKING AND RECORD DRAWINGS FOR THE PROJECT. RECORD DRAWINGS SHALL BE REFLECTED ON THE PLANS, PRINTED, AND SUBMITTED TO THE OWNER FOR THEIR PERMANENT RECORDS. ALL STAKING AND RECORD DRAWINGS SHALL BE PERFORMED BY A LICENSED, PROFESSIONAL SURVEYOR. A COPY OF THE SURVEYOR'S LICENSE SHALL BE PROVIDED TO THE OWNER WITH OTHER REQUIRED SUBMITTALS AND NO WORK SHALL BE PERFORMED UNTIL THIS INFORMATION IS RECEIVED AND APPROVED. THE OWNER SHALL PROVIDE DIGITAL FILES AND FIELD CONTROL AS NECESSARY FOR THE LICENSED SURVEYOR'S USE WHEN PREPARING THE STAKING PLAN.

DEMOLITION NOTES

1. THERE ARE NUMEROUS EXISTING UNDERGROUND UTILITIES TO BE REMOVED, ABANDONED IN-PLACE AND PLUGGED, AND/OR ABANDONED IN-PLACE AND SLURRY FILLED. ANY UTILITIES THAT ARE TO BE ABANDONED IN-PLACE SHALL BE PLUGGED AND MADE WATER-TIGHT OR SLURRY FILLED TO REFUSAL BEFORE EARTHWORK OPERATIONS COMMENCE.
2. THE CONTRACTOR SHALL BE PREPARED TO CAMERA ANY DISCOVERED UTILITY MAIN FOUND DURING CONSTRUCTION NOT SHOWN ON THE PLANS TO VERIFY IF THE MAIN SHOULD BE TIED TO THE PROPOSED SYSTEMS OR BE ABANDONED AND/OR REMOVED.
3. ALL PLUGS FOR UTILITY MAINS TO BE ABANDONED SHALL BE FORMED IN-PLACE WITH 3,000 PSI CONCRETE. ALL DRAINS, SEWER MAINS, ETC. SHALL BE SLURRY FILLED WITH 100 TO 200 PSI MIX, FLOWABLE FILL GROUT TO REFUSAL. THE GEOTECHNICAL REPRESENTATIVE SHALL REQUIRE THAT WHEN SLURRY FILLING THAT THE GROUT BE PUMPED UNDER PRESSURE FROM THE DOWNSTREAM SIDE UNTIL GROUT IS SEEN RISING IN THE VENT PIPE AT THE VERY UPSTREAM END OF EXISTING UTILITY BEING ABANDONED.
4. ALL EXISTING STORM DRAIN INLETS/SANITARY SEWER MANHOLES WHICH ARE TO BE REMOVED BELOW FINISHED GRADE SHALL, AFTER THEIR REMOVAL, BE BACKFILLED WITH NO. 825B STONE MECHANICALLY COMPACTED IN 8" LIFTS.
5. IN LOCATIONS WHERE EXISTING SANITARY OR STORM DRAIN ARE TO BE REMOVED, THE CONTRACTOR MAY BACKFILL WITH ENGINEERED EARTHEN FILL MATERIAL MEETING THE MATERIAL, COMPACTION, AND MOISTURE REQUIREMENTS SET FORTH BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT IN FULL FOR THIS INFORMATION.
6. EXISTING PAVEMENTS SHALL BE RETAINED IN-PLACE FOR AS LONG AS POSSIBLE DURING CONSTRUCTION ACTIVITIES. THE EXISTING PAVEMENTS ACT AS AN EROSION CONTROL MEASURE TO KEEP THE SITE'S SOILS STABILIZED AND MINIMIZE OFFSITE SOIL RUNOFF.
7. THE CONTRACTOR SHALL NOTE THAT SOME OF THE EXISTING STORM DRAIN AND SANITARY SEWER MAINS THROUGH THE SITE CONTAIN PASS-THROUGH FLOWS FROM OFFSITE. THE CONTRACTOR SHALL BE FULLY AND COMPLETELY RESPONSIBLE FOR MAINTAINING THESE FLOWS WITHOUT INTERRUPTION AT ALL TIMES DURING CONSTRUCTION. BEFORE ANY EXISTING PIPES ARE REMOVED OR SLURRY-FILLED, THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS INCLUDING BYPASS PUMPING, ETC. TO ENSURE THAT FLOWS ARE UNIMPEDED.
8. AS PART OF THE BUILDING SLAB REMOVALS SHOWN, CONTRACTOR SHALL ALSO REMOVE ALL FOOTINGS ASSOCIATED WITH EXISTING OR PREVIOUS BUILDING SLABS.
9. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES (I.E. COMCAST, CHARTER, SPIRE, AT&T, ALABAMA POWER, LOCAL MUNCIPALITY, ETC.) TO CONFIRM THAT THEIR SERVICES HAVE BEEN TERMINATED AND CAPPED PRIOR TO REQUIRED REMOVAL.
10. THE PROJECT DEMOLITION, CLEARING AND GRUBBING GENERAL AREAS HAVE BEEN REFLECTED ON THE DEMOLITION PLAN. THE AREA IS GENERAL IN NATURE AND IS INTENDED TO GIVE THE CONTRACTOR AN APPROXIMATE AREA OF DEMOLITION. REGARDLESS OF THE AREA SHOWN, THE CONTRACTOR SHALL DEMOLISH, CLEAN AND GRUB ALL AREAS AND EXISTING INFRASTRUCTURE (ABOVE AND BELOW GROUND) NECESSARY TO COMPLETE ALL FINAL IMPROVEMENTS AS SHOWN ON THE CIVIL, ARCHITECTURAL, LANDSCAPE/IRRIGATION, ETC. CONSTRUCTION PLANS.

GRADING AND STAKING NOTES

1. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" TOPSOIL APPLIED, BE GRASSED AND MULCHED, AND/OR SODDED AS SOON AS FINAL GRADING IS COMPLETE. REFER TO EROSION CONTROL NOTES FOR TEMPORARY GRASSING AND MULCHING DURING GRADING OPERATIONS..
2. ALL ENGINEERED FILL MATERIALS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE WELL IN ADVANCE OF FILL OPERATIONS. THE CONTRACTOR SHALL IDENTIFY ALL BORROW SOURCES FOR PD SAMPLES TO BE TAKEN AND EVALUATED.
3. THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT PREPARED BY TTL, Inc. FOR THIS PROJECT IN ITS ENTIRETY.
4. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE COMPACTED IN LOOSE 8" LIFTS TO 98%, ASTM D 698 MINIMUM AS DIRECTED BY THE GEOTECHNICAL REPRESENTATIVE. THE GEOTECHNICAL REPORT COMPACTION REQUIREMENTS SHALL BE THE REQUIREMENT FOR THE PROJECT.
5. THE CONTRACTOR SHALL CLEAR AND GRUB AS NECESSARY WHERE GRADING OPERATIONS ARE TO BE PERFORMED AS SHOWN. THE MAJORITY OF THE PROJECT WILL REQUIRE CLEARING AND REMOVAL OF EXISTING SIDEWALK, DRIVES, CURB AND GUTTER, CURBING, TREE STUMP REMOVAL, TOPSOIL, GRADING, ETC. AS SHOWN THROUGHOUT THE PROJECT CONSTRUCTION PLANS AND CONTRACT DOCUMENTS.
6. ALL EXISTING WATER VALVES, UTILITY VAULT TOPS, METER BOXES, ROADWAY SIGNS, INFORMATIONAL SIGNS, ETC. NOTED ON THE DEMOLITION PLAN SHALL BE REMOVED, STOCKPILED IN A SECURE LOCATION, AND/OR RESET AS PER THE CONTRACT DOCUMENTS.
7. BEFORE FINAL GRADING THE CONTRACTOR SHALL MAKE SURE UTILITIES INCLUDING STORM DRAIN, SANITARY, WATER DISTRIBUTION AND FIRE PROTECTION, ELECTRICAL, VIDEO, IRRIGATION, ETC. IMPROVEMENTS HAVE BEEN INSTALLED.
8. THE CONTRACTOR SHALL NOTE CHANGE IN GRADES AND REQUIRED RAMPS WHEN LAYING OUT SCORING AND HANDICAP RAMPS. ALL ADA ACCESSIBLE RAMP GRADES AND SIDEWALK CROSS SLOPE SHALL MEET ADA REQUIREMENTS.
9. GRADING OPERATIONS SHALL INCLUDE TOPSOIL STRIPPING AND REMOVAL THROUGHOUT THE PROJECT SITE, UNCLASSIFIED EXCAVATION, AND BORROW EXCAVATION, ROCK REMOVAL, ETC. TO BRING THE SITE TO FINISHED SUBGRADE (ONLY LEAVING PAVEMENTS AND TOPSOIL TO REACH FINAL FINISHED GRADE) AS SHOWN ON THE CONSTRUCTION PLANS. NO EXTRA PAYMENT WILL BE MADE FOR EXCESS MATERIAL BROUGHT ON-SITE, MATERIAL REQUIRED TO BE MOVED MULTIPLE TIMES BECAUSE OF CONSTRUCTION PHASING, OR EXCESS MATERIAL TO BE REMOVED FROM THE SITE UPON GRADING COMPLETION.
10. THERE SHALL BE NO DEBRIS (ROOTS, ROCKS, ETC.) IN THE TOPSOIL LARGER THAN 1" IN DIAMETER. THERE ALSO SHALL BE NO WASTED TEMPORARY GRAVEL, CONCRETE, OR ANY OTHER BUILDING MATERIALS FOUND IN THE TOPSOIL. ANY FOUND DEBRIS SHALL BE REMOVED IMMEDIATELY.
11. PAYMENT FOR DISPOSAL OF UNSUITABLE MATERIAL "IF ENCOUNTERED" SHALL BE MADE PER CONTRACT DOCUMENTS.

PAVING, SIGNING AND STRIPING NOTES

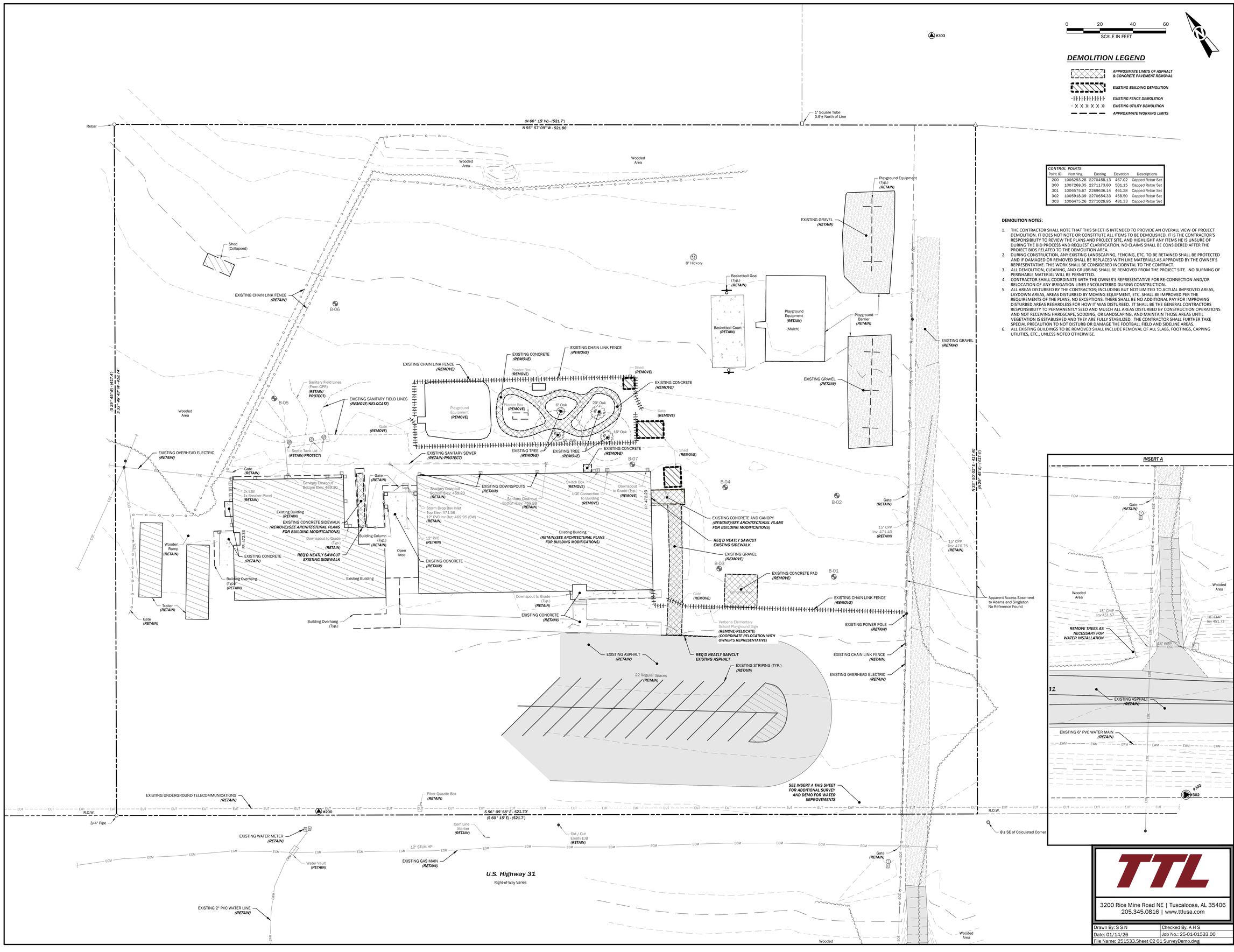
1. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENTS JOIN TO EXISTING CLEANLY.
2. ALL COMBINATION CURB AND GUTTER SHALL BE TWO (2) FEET IN WIDTH UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. EXISTING CURB AND GUTTER VARIES IN WIDTH AND PROPOSED CURB AND GUTTER SHALL BE TAPERED TO JOIN TO IT OVER A MINIMUM DISTANCE OF FIVE (5) FEET TO ENSURE A SMOOTH TRANSITION.
3. ALL TEMPORARY AND/OR PERMANENT STRIPING, MARKINGS, ETC. SHALL BE OF COLOR AND TYPE SHOWN AND SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
4. ALL TEMPORARY CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY CONSTRUCTION SIGN POSTS SHALL BE #3 "U" CHANNEL POSTS, ALDOT 710B.
5. ALL TRAFFIC STRIPES SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
6. THE OWNER REQUIRES A HIGH LEVEL OF FINISH TO THEIR SIDEWALK AND CURB AND GUTTER. THE CONTRACTOR SHALL MAKE SURE HIS MIX IS OPTIMUM AND NOT TOO DRY/WET WHICH MAY LEAD TO PITTING, CRACKING, AND TEXTURE TYPE PROBLEMS WHEN FINISHING THE CONCRETE. POORLY FINISHED CONCRETE SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
7. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
8. THE CONCRETE SIDEWALK JOINTING PATTERN SHOWN SHALL BE REFERENCED WHEN POURING THE SIDEWALKS.
9. THE CONTRACTOR SHALL NOTE THE DIFFERENT PAVEMENT TYPICAL SECTIONS FOR THE PROJECT.
10. THE CONTRACTOR SHALL NOTE THE SCORING PATTERNS SHOWN ON THE SITE LAYOUT FOR THE FINAL CONCRETE IMPROVEMENTS. HE SHOULD NOTE THAT THESE PATTERNS SERVE TWO PURPOSES: (1) AESTHETICS (2) PROVIDE CONTROL CRACKING. IT IS VERY IMPORTANT THAT THE CONTRACTOR STAKE OUT HIS CONTROL JOINTS SPECIFICALLY RELATED TO CONCRETE PAVEMENTS IN RADIUS. WHEN SAW-CUTTING PAVEMENTS ALONG CENTERLINE IN A RADIUS, THE CONTRACTOR SHALL PROVIDE THE SCORING PATTERN SHOWN AND TO THE DESIGN DEPTH REQUIRED FOR CONTROL JOINTS.
11. CONCRETE CONTROL JOINTS SHALL BE MEASURED FOR DEPTH. THEY MUST BE INSTALLED PROPERLY FOR CONTROL CRACKING OF THE CONCRETE PAVEMENT. IMPROPERLY INSTALLED CONCRETE SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
12. ALL TEMPORARY STRIPING DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. TEMPORARY STRIPING SHALL BE REQUIRED TO CLEARLY DELINEATE WHERE TRAFFIC BOTH PEDESTRIAN AND MOTOR VEHICLE KNOW HOW TO NAVIGATE THE WORK AREA. DURING PAVEMENT CURING TEMPORARY STRIPING SHALL BE APPLIED FOR TRAFFIC CONTROL.
13. THE FINAL PAVEMENT FINISH IS VERY IMPORTANT FOR THE PROJECT AND THE OWNER. THE CONTRACTOR SHALL MAKE ALL PAVEMENT ARE FINISHED OUT SMOOTHLY AND CLEANLY. IRREGULARITIES, "BIRD BATHS", RANDOM CRACKING, ETC. SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.

STORM DRAIN NOTES

1. THE COST OF INVERTS AND STEPS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR STORM SEWER STRUCTURES INCLUDING BUT NOT LIMITED TO S-INLETS, JUNCTION BOXES, GRATE INLETS, ETC. NO ADDITIONAL PAYMENT SHALL BE MADE FOR INVERTS AND STEPS.
2. THE COST OF RINGS AND COVERS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR STORM SEWER STRUCTURES INCLUDING BUT NOT LIMITED TO S-INLETS, JUNCTION BOXES, GRATE INLETS, ETC. NO ADDITIONAL PAYMENT SHALL BE MADE FOR RINGS AND COVERS.
3. STORM DRAIN STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING AND/OR INLET THROAT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. STORM DRAIN STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE STORM STRUCTURE TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED.
5. ALL REQUIRED STORM SEWER STRUCTURE RING AND COVER TOPS SHALL MATCH TOP OF CURB, ROADWAY AND/OR VEGETATED FINISHED GRADE ELEVATIONS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLANS. ANY ADJUSTMENTS TO LEVEL RING AND COVER TOP ELEVATIONS WITH FINAL ASPHALT, SODDING, ETC. SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE STORM DRAIN STRUCTURE INSTALLATION.
6. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORMWATER FLOW IN EXISTING AND PROPOSED STORM SEWERS WITHIN THE PROJECT LIMITS AND IF AFFECTED BY CONSTRUCTION ACTIVITIES, OUTSIDE THE PROJECT LIMITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY AND ALL MATERIAL AND LABOR REQUIRED FOR TEMPORARY STORM SEWERS AND/OR PUMPS THAT MAY BE REQUIRED FOR BYPASSING. THE OWNER OR ITS REPRESENTATIVES SHALL NOT ACCEPT ANY RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY, OR ACCEPT ANY RESPONSIBILITY FROM CLAIMS OR DAMAGES RESULTING FROM THE FAILURE OF THE CONTRACTOR'S TEMPORARY STORM SEWER BYPASS FACILITIES.
7. WHEN ROOF DRAINS ARE TIED TO STORM DRAIN STRUCTURES, DRAIN INVERTS SHALL BE INSTALLED AT THE TOP ELEVATION OF OTHER STORM DRAIN PIPING OR AS HIGH AS THEIR REQUIRED SLOPES AND COVER WILL ALLOW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORING DRAINAGE STRUCTURES TO TIE IN THE ROOF DRAINS.
8. ALL STORM DRAIN STRUCTURES ARE REQUIRED TO HAVE REBAR REINFORCEMENT IN THE WALLS, BOTTOM, AND TOP. ALTHOUGH THE TOPS VARY FOR AN S-INLET, GRATE INLET, AND JUNCTION BOX, THE BOX ITSELF IS THE SAME AND REBAR REINFORCEMENT SHALL BE PLACED PER THE STANDARD DETAIL AND NOTES.
9. ANY EXISTING STORM STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPED WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTED, ETC.
10. CONICAL MANHOLE SECTIONS AND MANHOLE RIMS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE.
11. WHEN TYING TO EXISTING UTILITY PIPING WITH STORM DRAIN, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
12. CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH STORM STRUCTURE CONICAL SECTION AND RING AND COVER TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT.
13. THE CONTRACTOR MAY USE PRECAST CONCRETE STORM STRUCTURES FOR THE STANDARD/SPECIAL STRUCTURES REQUIRED ON THE CONSTRUCTION PLANS.
14. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT. THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE.
15. THE CONTRACTOR SHALL BACKFILL THE SPACE (WHEN BETWEEN 6 INCHES AND 2 FEET) BETWEEN STORM DRAIN AND SANITARY SEWER MAINS WHEN CROSSING WITH NO. 57 STONE MECHANICALLY CONSOLIDATED IN-PLACE TO PREVENT ANY SETTLEMENT AT THE CROSSING. THIS STONE SHALL EXTEND THE WIDTH OF THE UTILITY TRENCH TO APPROXIMATELY FOUR (4) FEET TO EITHER SIDE OF THE CROSSING.
16. THE CONTRACTOR SHALL GROUT AS NECESSARY ALL LIFTING HOLES IN STORM DRAIN PIPING SECTIONS BEFORE BACKFILL. THIS SHALL BE REQUIRED REGARDLESS IF PRECAST CONCRETE LIFTING PLUGS ARE USED OR NOT. THE COMBINATION OF THE TWO (2) IS RECOMMENDED TO ENSURE THAT THE LIFTING HOLES DO NOT REMAIN OPEN ALLOWING EARTHEN MATERIAL TO ENTER THE DRAIN POSSIBLY CAUSING A SINK HOLE AT THE SURFACE.

SANITARY SEWER NOTES

1. THE LOCAL MUNICIPALITY, THE OWNER'S REPRESENTATIVE, AND LOCAL RESIDENTS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE BEFORE ANY SANITARY SEWER IMPROVEMENTS BEGIN.
2. THE CONTRACTOR SHALL VERIFY CONNECTIONS FOR FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWER PIPING AND MANHOLE INVERTS BEFORE INSTALLING ANY REQUIRED SANITARY SEWER STRUCTURES AND PIPING. THE OWNER'S REPRESENTATIVE SHALL VERIFY THE PROPOSED DESIGN AS SOME INFORMATION WAS NOT VERIFIABLE DURING THE DESIGN SURVEY. IF THE CONTRACTOR IGNORES THIS REQUEST AND HIS INSTALLATION IS INCORRECT, THEN IT SHALL BE HIS RESPONSIBILITY TO RELAY OR RESET ALL PIPING OR STRUCTURES AT HIS COST AFTER THE OWNER'S REPRESENTATIVE FIELD VERIFIES THE INVERTS AND/OR GRADES.
3. THE COST OF INVERTS AND STEPS SHALL BE INCLUDED IN THE PRICE FOR SANITARY STRUCTURES. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR INVERTS AND STEPS.
4. THE COST OF RINGS AND COVERS SHALL BE INCLUDED IN THE PRICE FOR SANITARY SEWER STRUCTURES. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR RINGS AND COVERS.
5. SANITARY STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
6. SANITARY STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE SANITARY STRUCTURE TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED.
7. ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH ASPHALT FINISHED GRADES. TOPS INSTALLED TOO HIGH SHALL BE RESET AT NO ADDITIONAL COST TO THE PROJECT.
8. ALL SANITARY SEWER MAINS AND SERVICE CONNECTIONS SHALL HAVE DUCTILE IRON FITTINGS ONLY AS PER THE DETAILS REGARDLESS OF THE MAIN OR LATERAL TYPE (PVC OR D.I.).
9. ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPED WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTING, ETC.
10. CONICAL MANHOLE SECTIONS AND MANHOLE RINGS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE.
11. WHEN TYING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
12. THE CONTRACTOR SHALL MAKE SURE THA



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CHILTON CO. VERBENA ELEMENTARY GYM & CLASSROOM ADDITION

CHILTON COUNTY BOARD OF EDUCATION

1705 LAY DAM ROAD, CLANTON, AL 35045

ALABAMA LICENSED Adam H. Straughan No. 53482 PROFESSIONAL 01-14-26 ENGINEER ADAM H. STRAUGHAN

CONSTRUCTION DOCUMENTS

DATE: 01/14/26
PROJ NO: 25-060

REVISIONS

#	DESC	DATE

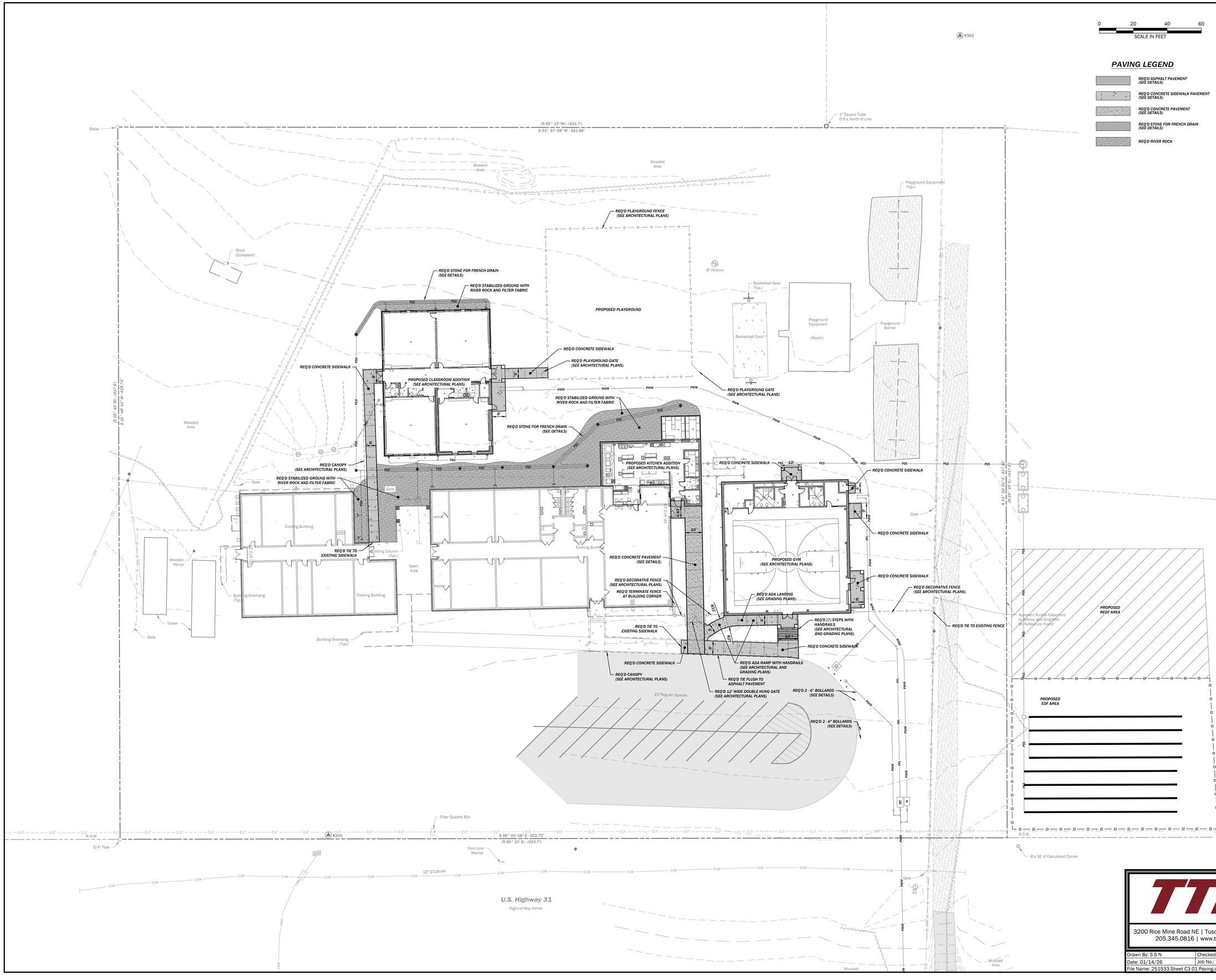
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205.345.0816 | www.ttlusa.com

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Date: 01/14/26 | Job No.: 25-01-01533.00
File Name: 251533.Sheet C2 01 SurveyDemo.dwg

EXISTING CONDITIONS AND DEMOLITION PLAN

C201

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ALABAMA LICENSED PROFESSIONAL ENGINEER No. 53482 ADAM H. STRACHAN 01-14-26

CONSTRUCTION DOCUMENTS

DATE: 01/14/26
PROJ NO: 25-060

REVISIONS

#	DESC	DATE

SITE PAVING PLAN

C301

TTL
3200 Rice Mine Road NE | Tuscaloosa, AL 35406
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Date: 01/14/26	Job No.: 25-01-01533.00
File Name: 251533.Sheet C3 01 Paving.dwg	

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SITE GRADING PLAN

C401

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Date: 01/14/26 | Job No.: 25-01-016533.00
File Name: 251533.Sheet C4 01 Grading.dwg

GRADING LEGEND

- 150 — REQ'D CONTOUR 5' INTERVAL
- 149 — REQ'D CONTOUR 1' INTERVAL
- $\times_{SP=150.00}$ $\times_{TC=170.00}$ $\times_{FG=150.00}$ — REQUIRED EDGE OF PAVEMENT, TOP OF CURB, FINISH GRADE, SIDEWALK, TOP OF STEP & BOTTOM OF STEP
- $\times_{SW=170.00}$ $\times_{BS=150.00}$ $\times_{FG=150.00}$

SCALE IN FEET: 0, 20, 40, 60

PROPOSED PLAYGROUND

PROPOSED EDF AREA

PROPOSED CLASSROOM ADDITION (SEE ARCHITECTURAL PLANS) FFE=473.50

PROPOSED KITCHEN ADDITION (SEE ARCHITECTURAL PLANS) FFE=472.00

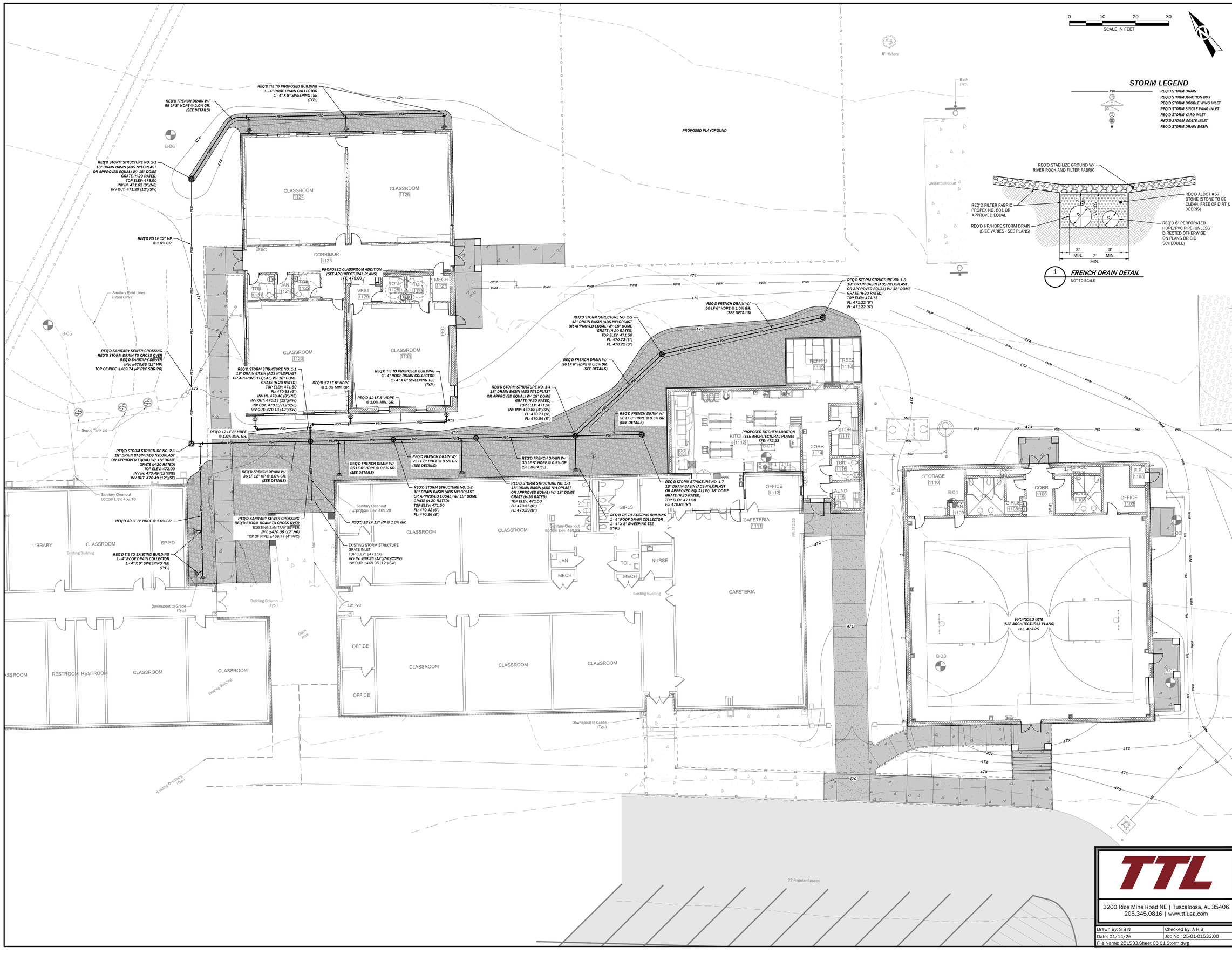
PROPOSED GYM (SEE ARCHITECTURAL PLANS) FFE=473.50

EXISTING FFE=472.00

REQ'D (7) STEPS W/ 9.5" RISERS AND HANDRAILS (SEE ARCHITECTURAL PLANS)

U.S. Highway 31
Right-of-Way Varies

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ALABAMA LICENSED Adam H. Stringer No. 53482 PROFESSIONAL 01-14-2026 ENGINEER ADAM H. STRINGER

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PROJ NO: 25-060

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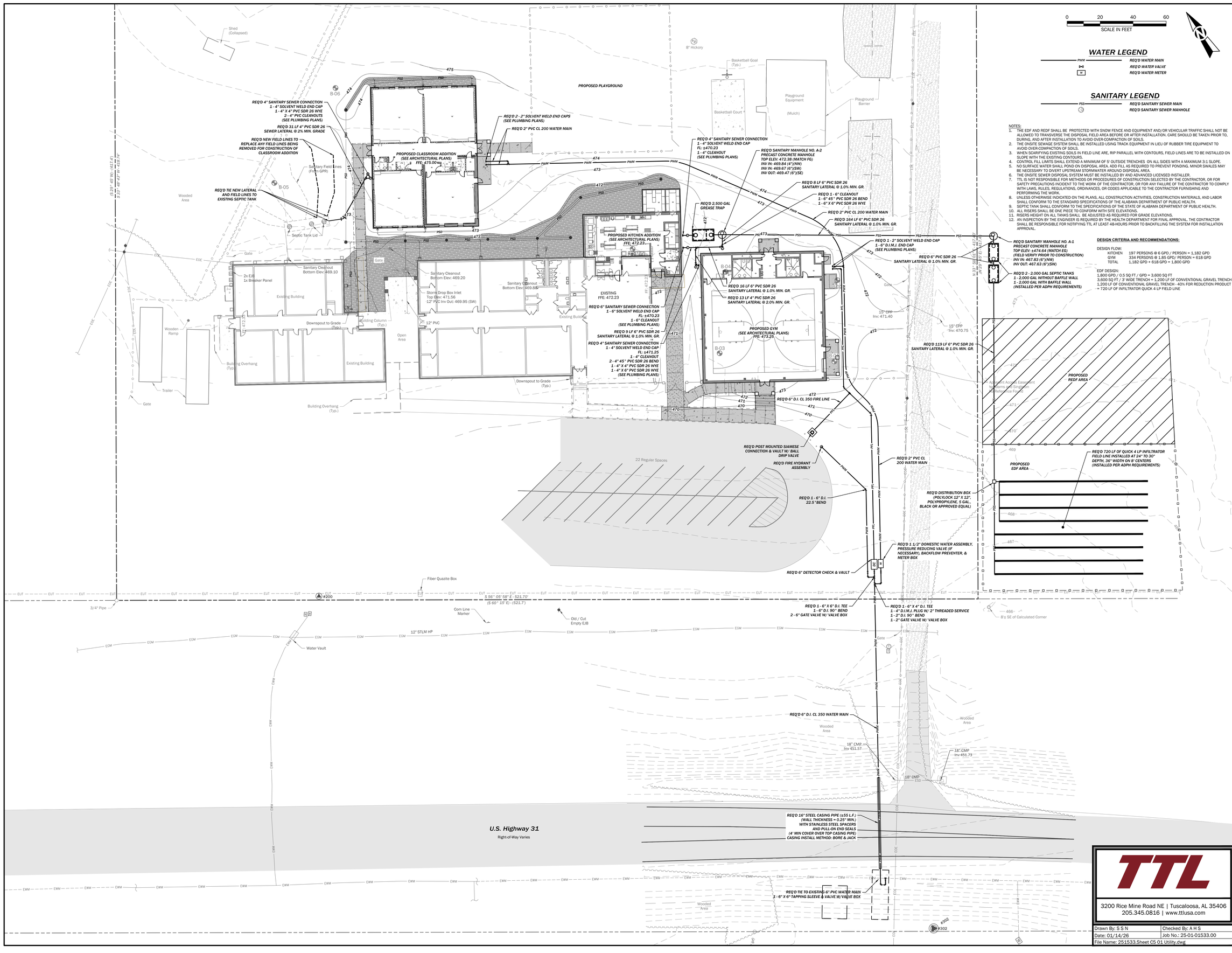
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STORM DRAINAGE PLAN

C501

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ALABAMA LICENSED No. 53482 PROFESSIONAL ENGINEER ADAM H. STRACHAN
01-14-26

CONSTRUCTION DOCUMENTS

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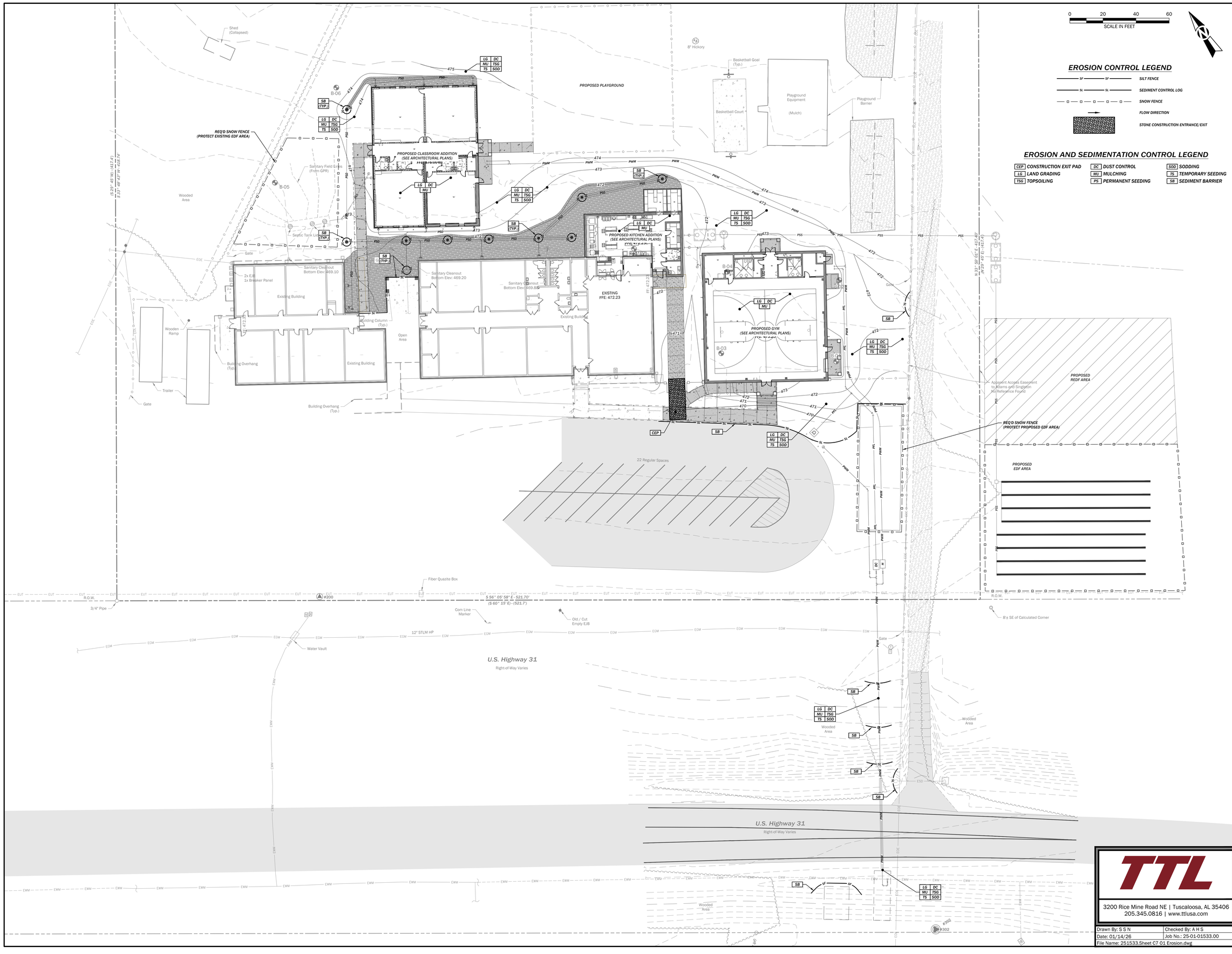
SITE UTILITY PLAN

C601

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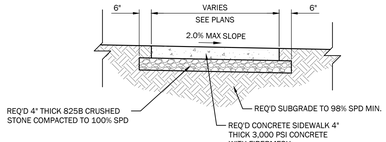
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EROSION CONTROL PLAN

C701

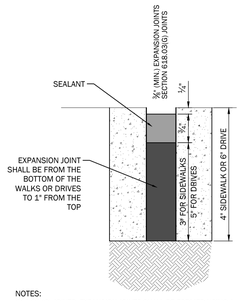
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NOTES:
1. EXPANSION JT. REQ'D. @ 40' MAX. INTERVALS BUT NOT LESS THAN 30' WITH EXPANSION JOINT MATERIAL.
2. CONTRACTION JOINTS SHALL BE HAND-TOOLED IN LOCATIONS AS INDICATED BY THE SCORING PATTERN SHOWN IN THE CONSTRUCTION PLANS. JOINTS SHALL BE INSTALLED AT A DEPTH OF 1/4 THICKNESS OF THE SLAB MIN. NO SAW-CUT OF JOINTS IS ALLOWED.
3. SIDEWALKS SHALL HAVE AN EXPANSION JOINT INSTALLED IN ALL LOCATIONS WHERE NEW IMPROVEMENTS MEET EXISTING INFRASTRUCTURE.
4. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
5. ALL STONE SHALL BE MECHANICALLY COMPACTED IN PLACE, NO EXCEPTIONS.
6. CONTRACTOR SHALL REFERENCE THE PLANS FOR THE CONCRETE SIDEWALK SCORING PATTERN. THE CONTRACTOR SHALL MATCH THIS PATTERN AS SHOWN.
7. EXPANSION JOINT MATERIAL SHALL BE PUSHED DOWN 1/8" FROM TOP OF SIDEWALK.
8. EXPANSION JOINT MATERIAL SHALL BE CONTINUOUS THROUGH THE OVERALL DEPTH OF THE SIDEWALK.

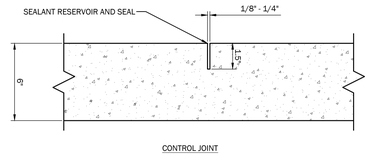
1 ***CONCRETE SIDEWALK***
NOT TO SCALE

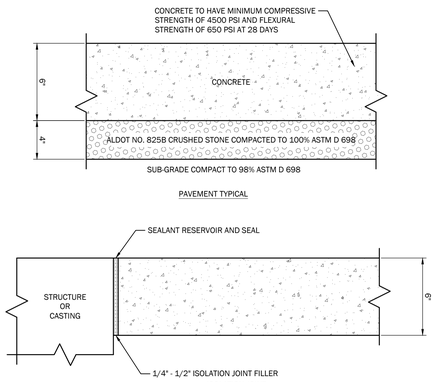


NOTES:
618.03 (G) JOINTS: EXPANSION JOINTS SHALL BE FORMED USING A FILLER AND SEALER SPECIFIED IN ARTICLE 832.01 AND 832.02.

832.01(A) GENERAL: JOINT FILLERS USED IN CONJUNCTION WITH EXPANSION JOINTS WILL REQUIRE THE USE OF A JOINT SEALER IN ORDER TO PROVIDE A FUNCTIONAL JOINT. SEALERS SHALL BE ONE OF THE APPROPRIATE TYPES SPECIFIED IN ARTICLE 832.02 OR SUBARTICLE 832.03(A), UNLESS A SPECIFIC TYPE IS SPECIFIED BY THE PLANS.

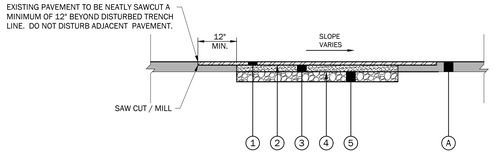
2 ***EXPANSION JOINT DETAIL***
NOT TO SCALE





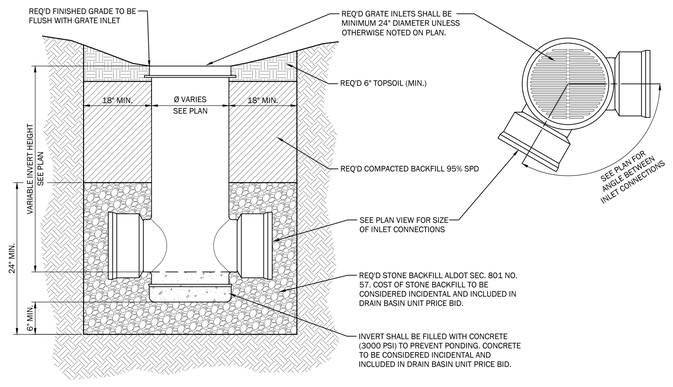
NOTES:
1. DETAILS DESIGNED AND PROVIDED BY TTL, INC. ANY VARIANCE FROM THESE DETAILS DURING CONSTRUCTION SHALL BE APPROVED IN ADVANCE BY TTL, INC.
2. THESE DETAILS APPLY TO ALL CONCRETE PAVEMENT AS NOTED IN THE PLANS.
3. IF IT IS UNCLEAR TO THE CONTRACTOR WHICH CONCRETE DETAILS APPLY WHERE, HE SHOULD ASK IN ADVANCE. IMPROPERLY INSTALLED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL SAW-CUT CONTROL JOINTS ON SAME DAY THAT CONCRETE IS POURED.

3 ***CONCRETE PAVEMENT DETAILS***
NOT TO SCALE

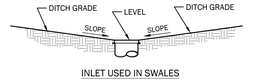


4 ***ASPHALT PATCH***
NOT TO SCALE

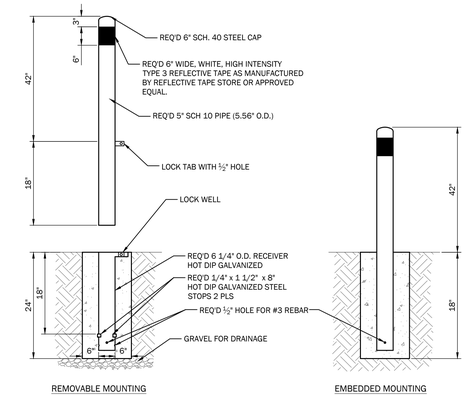
1. REQ'D: SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424A)(1" COMPACTED THICKNESS)
2. REQ'D: TACK COAT (TRACKLESS TACK) (ALDOT 405A)(0.10 GAL/SY)
3. REQ'D: SUPERPAVE BITUMINOUS CONCRETE BINDER UPPER LAYER, 1 ½" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424B)(5" COMPACTED THICKNESS)
4. REQ'D: PRIME COAT "A" (ALDOT SECTION 401D)
5. REQ'D: CRUSHED AGGREGATE STONE BASE COURSE (ALDOT 825B)(12" COMPACTED THICKNESS) (COMPACTED TO 100% ASTM D 698)
- A. EXISTING ASPHALT PAVEMENT



6 ***DRAIN BASIN DETAIL***
NOT TO SCALE



INLET USED IN SWALES



REMOVABLE MOUNTING EMBEDDED MOUNTING

NOTES:

MATERIAL
THE 6"X 6" BOLLARDS SHALL BE FABRICATED WITH 5" SCH 10 STEEL PIPE (5.56" O.D.), AND SCH. 40 WELD CAP ALL FULLY WELDED AND GROUND SMOOTH. STEEL SHALL CONFORM TO ASTM A53.

THE IN GROUND RECEIVER, FOR REMOVABLE BOLLARD ONLY, SHALL BE FABRICATED WITH 6 1/4" O.D. STEEL SLEEVE WELDED TO A 3" x 5" LOCKWELL.

PROTECTIVE COATINGS
POWDER COATING: FOLLOWING FABRICATION, BOLLARDS SHALL BE CLEANED AND TREATED WITH AN IRON PHOSPHATE PROCESS PRIOR TO THE COATING APPLICATION. THIS PROCESS SHALL INCLUDE A NON-CHROMATED ALKALINE CLEANER, AND AN IRON PHOSPHATE TREATMENT FOLLOWED WITH AN ACIDIC SEALER FOR MAXIMUM ADHESION. THE PROTECTIVE COATINGS SHALL BE "BLACK" IN COLOR AND SHALL BE EITHER POLYESTER OR POLYESTER TGIC POWDER. FOLLOWING APPLICATION, THE PARTS SHALL BE BAKED UNTIL PROPERLY CURED. THE COATING SHALL BE A MINIMUM OF 4 MILS THICK ON ALL SURFACES.

5 ***6" BOLLARD***
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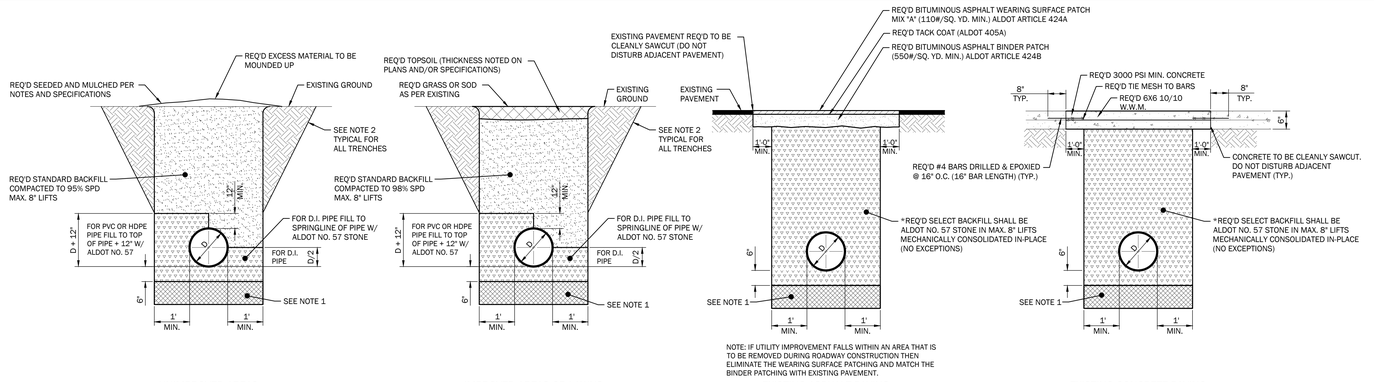
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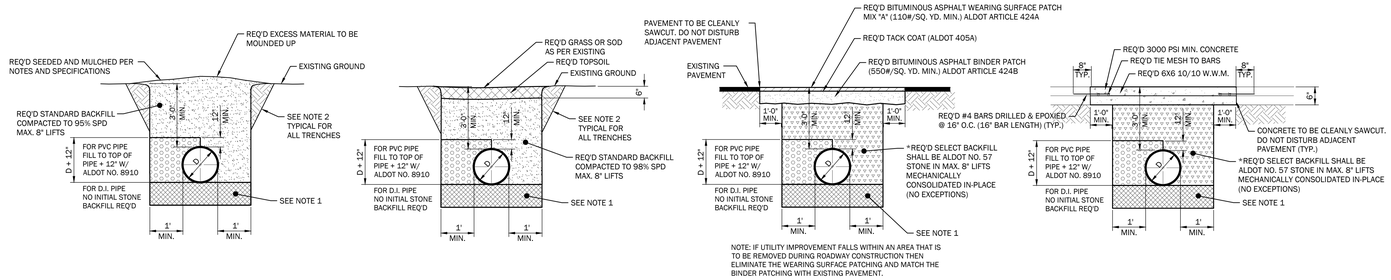
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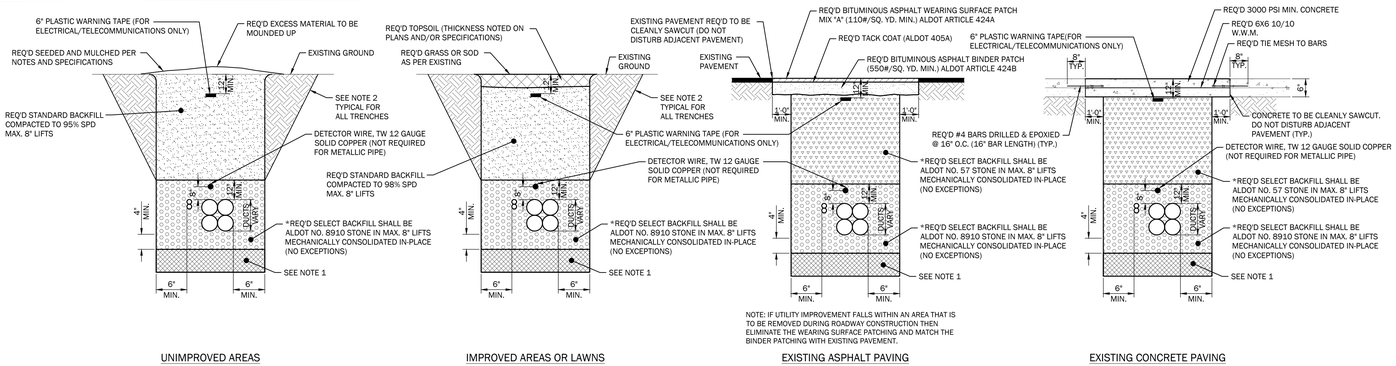
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1 **TRENCH DETAILS - GRAVITY PIPE (SANITARY AND STORM)**
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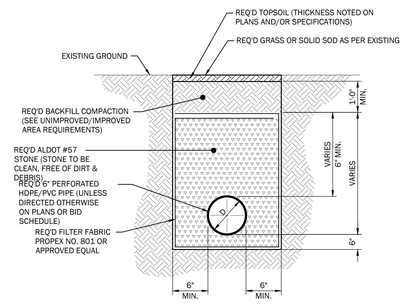


2 **TRENCH DETAILS - PRESSURE PIPE**
NOT TO SCALE

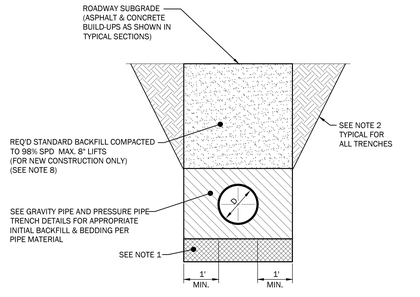


3 **TRENCH DETAILS - UTILITY CONDUIT/DUCT BANK**
NOT TO SCALE

TRENCH DETAIL NOTES:
1. THESE TRENCH DETAILS AND TRENCH DETAIL NOTES APPLY TO ALABAMA POWER, AT&T, COMCAST, AND CITY OF TUSCALOOSA LIGHTING/TELECOMMUNICATION UTILITIES.



4 **UNDERDRAIN DETAIL**
NOT TO SCALE

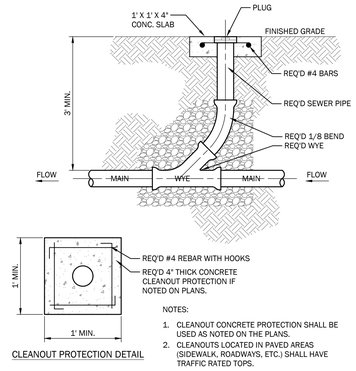


5 **TRENCH DETAIL - PAVED SURFACES (NEW CONSTRUCTION)**
NOT TO SCALE

TRENCH DETAIL NOTES

1. TRENCH FOUNDATION REQUIRED IF DIRECTED BY THE ENGINEER, DEPTH VARIES.
2. THERE IS NO ADDITIONAL PAY FOR TRENCH LAY BACK, BENCHING, SHORING, TRENCH BOXES, ETC. THIS IS CONSIDERED A SUBSIDIARY OBLIGATION TO THE UTILITY INSTALLATION.
3. THE CONTRACTOR SHALL MECHANICALLY CONSOLIDATE ALL STONE BACKFILL IN MAXIMUM 8" LIFTS AS NOTED. FAILURE TO DO SO SHALL RESULT IN THE STONE BEING REMOVED/REINSTALLED AT THE CONTRACTOR'S EXPENSE OR ONLY PARTIAL PAYMENT BEING MADE FOR THE BID ITEM. STONE SHALL BE PLACED IN APPROPRIATE THICKNESS AND COMPACTED IN THE FOLLOWING SEQUENCE:
   (1) BEDDING (6" MIN.)
   (2) SPRINGLINE OF PIPE
   (3) ONE FOOT ABOVE TOP OF PIPE
   (4) 8" LIFTS FOR REMAINING TRENCH DEPTH
4. UNIMPROVED AREAS SHALL BE CONSIDERED AREAS WHERE NO PREVIOUS DEVELOPMENT HAS OCCURRED AND THE AREA IS NOT MAINTAINED REGULARLY SUCH AS A WOODED/FORESTED AREA OR OPEN FIELD.
5. IMPROVED AREAS OR LAWNS SHALL BE CONSIDERED AREAS WHERE REGULAR MAINTENANCE OCCURS SUCH AS IN PUBLIC RIGHT-OF-WAYS AND ON PRIVATE PROPERTIES. SETTLEMENT OF ANY KIND IN THESE AREAS IS UNACCEPTABLE AND MAXIMUM EFFORT SHALL BE GIVEN TO ENSURE THE IMPROVED/LANDSCAPE AREAS ARE RETURNED TO THEIR PREVIOUS STATE, UNLESS FURTHER IMPROVED BY THE PROJECT.
6. PAVEMENT AREAS (ASPHALT OR CONCRETE) SHALL BE CONSIDERED ANY ROADWAY, DRIVE, SIDEWALK, PAVERS, PARKING LOT, ETC. WHERE THE EXISTING OR FINAL FINISH GRADE IS AN ASPHALT OR CONCRETE SURFACE.
7. THE OWNER'S REPRESENTATIVE'S DETERMINATION OF WHAT IS AN UNIMPROVED AREA, IMPROVED AREA, OR PAVEMENT AREA IS FINAL. IF THE CONTRACTOR IS UNSURE OF WHERE UNIMPROVED , IMPROVED, OR PAVED AREAS ARE LOCATED ON A PROSPECTIVE PROJECT, THEN THEY SHALL REQUEST CLARIFICATION DURING THE BIDDING OF THE PROJECT. THERE SHALL BE NO CLAIMS CONSIDERED AFTER THE PROJECT HAS BEEN BID.
8. IN AREAS OF EXISTING PAVEMENT, THE TRENCH SHALL BE BACKFILLED COMPLETELY WITH STONE AS SHOWN ON THE EXISTING PAVEMENT TRENCH DETAILS. THESE AREAS INCLUDE CROSSING OF EXISTING ROADWAYS, PARKING LOTS, SIDEWALKS, ETC., AND ARE AREAS WHERE EXCAVATED WIDTHS DO NOT ALLOW FOR COMPACTION AND TESTING OF STANDARD BACKFILL. THESE CONFINED AREAS TYPICALLY CANNOT BE BENCHED BACK AND REQUIRE TALLER TRENCH BOXES TO MAINTAIN OSHA REQUIREMENTS.

   IN THE EVENT THAT THE EXISTING PAVEMENT AREA IS BEING COMPLETELY REMOVED TO A LIMIT THAT PROVIDES SUFFICIENT SPACE TO ALLOW PROPER VIBRATORY EQUIPMENT AND, IF NECESSARY, BENCHING OF SIDE SLOPES AS REQUIRED IN THE PROJECT EARTHWORK SPECIFICATIONS (BENCHING IS REQUIRED ON SLOPES GREATER THAN 4:1 SLOPE), THEN THE CONTRACTOR MAY FOLLOW THE TRENCH DETAIL FOR PAVED AREAS (NEW CONSTRUCTION). THIS DETAIL ALLOWS FOR THE USE OF EARTHEN BACKFILL AND WOULD ALSO REQUIRE THE CONTRACTOR TO ALLOW SUFFICIENT WIDTH THAT THE OWNER'S GEOTECHNICAL REPRESENTATIVE COULD TAKE PERIODIC COMPACTION TESTS. IF THE CONTRACTOR IS UNSURE OF WHERE STONE OR EARTHEN BACKFILL IS TO BE INSTALLED ON A PROSPECTIVE PROJECT, THEN THEY SHALL REQUEST CLARIFICATION DURING THE BIDDING OF THE PROJECT. THERE SHALL BE NO CLAIMS CONSIDERED AFTER THE PROJECT HAS BEEN BID.



CLEANOUT PROTECTION DETAIL

NOTES:
1. CLEANOUT CONCRETE PROTECTION SHALL BE USED AS NOTED ON THE PLANS.
2. CLEANOUTS LOCATED IN PAVED AREAS (SIDEWALK, ROADWAYS, ETC.) SHALL HAVE TRAFFIC RATED TOPS.

6 **CLEANOUT DETAIL**
NOT TO SCALE

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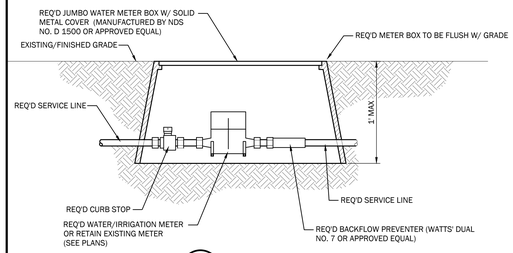
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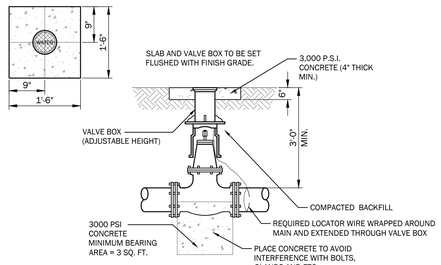
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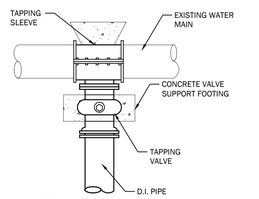


1 *TYPICAL METER ASSEMBLY*
NOT TO SCALE

NOTES:
1. IN VEGETATED AREAS, THE CONTRACTOR SHALL INSTALL A STANDARD JUMBO PLASTIC METER BOX (13" x 20" x 12") WITH A SOLID METAL LID. LID TO BE DFW MODEL 15 OR APPROVED EQUAL
2. ALL EXISTING GALVANIZED AND/OR LEAD WATER SERVICE LINES TO BE RETAINED SHALL BE REMOVED AND REPLACED WITH COPPER PIPING OR PVC (IF 2" OR LARGER DIAMETER) FROM THE WATER MAIN TO THE METER AND FROM THE METER TO THE R.O.W. THE EXISTING SERVICE TAP AT THE MAIN SHALL BE TURNED OFF AND PLUGGED.
3. ALL METERS SHALL HAVE A BACKFLOW PREVENTER INSTALLED IF ONE DOES NOT EXIST.
4. IN CONCRETE AREAS, THE CONTRACTOR SHALL INSTALL A BCF SERIES METER BOX (13" x 24" x 12") WITH A SOLID METAL LID OR APPROVED EQUAL
5. THIS METER BOX IS TYPICAL FOR A ONE AND ONE-HALF INCH (1½") AND SMALLER METERS.
6. FOR 2" METERS LOCATED IN VEGETATED AREAS ONLY, THE CITY OF TUSCALOOSA ALLOWS TWO (2) JUMBO METER BOXES, IN SUCCESSION, TO ACCOMMODATE THE METER, BACKFLOW PREVENTER, AND PRESSURE REDUCER VALVE. IN PAVED AREAS A 3' x 5' VAULT IS REQUIRED.

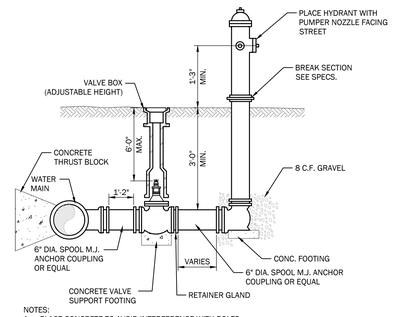


2 *GATE VALVE AND BOX DETAIL*
NOT TO SCALE



NOTES:
1. PAYMENT FOR HOT TAP SHALL INCLUDE TAPPING SADDLE, TAPPING VALVE, CONCRETE SUPPORTS, AND LABOR NECESSARY TO COMPLETE TAP.

3 *HOT TAP DETAIL*
NOT TO SCALE

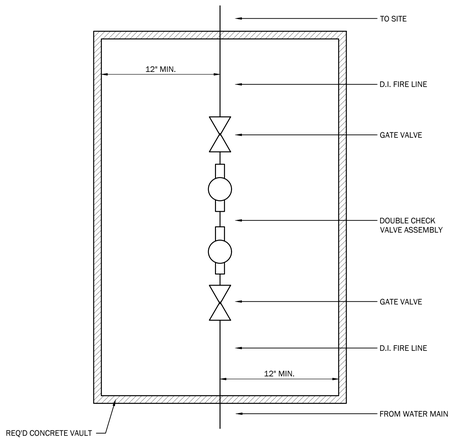


NOTES:
1. PLACE CONCRETE TO AVOID INTERFERENCE WITH BOLTS, GLANDS, ETC.

4 *FIRE HYDRANT ASSEMBLY DETAIL*
NOT TO SCALE

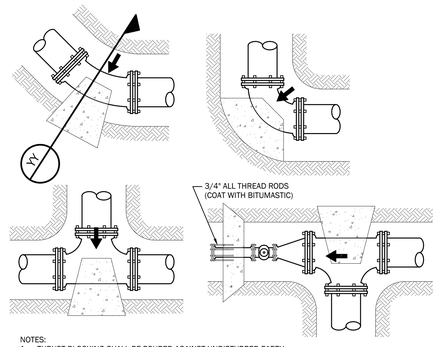
NOTES:
1. FIRE DEPARTMENT INLET CONNECTION THREADS SHALL BE TYPE NST.
2. FIRE DEPARTMENT INLET CONNECTION SHALL BE COVERED WITH BRASS PLUGS WHICH ARE CONNECTED TO THE INLET WITH CHAINS.
3. THE CONTRACTOR SHALL NOTE THAT IF THIS PROJECT IS ON THE UNIVERSITY OF ALABAMA CAMPUS, THE INLET CONNECTION PLUGS SHALL BE 2.5" KNOX LOCK PLUGS (MODEL NO. 3041) IN LIEU OF THE BRASS PLUG AND CHAINS. THE CONTRACTOR SHALL COORDINATE WITH THE LOCK MANUFACTURE TO ENSURE THAT THE LOCKS ARE KEYED TO THE REQUIREMENTS OF THE CITY OF TUSCALOOSA FIRE DEPARTMENT. COST OF THE LOCKS AND ANY ASSOCIATED KEYING SHALL BE INCLUDED IN THE COST OF THE SIAMESE CONNECTION. ANY LOCKS NOT MEETING THESE REQUIREMENTS WILL BE REPLACED AT NO ADDITIONAL COST TO THE PROJECT.
4. FIRE DEPARTMENT CONNECTION VAULT SHALL BE A REINFORCED CONCRETE VAULT AS MANUFACTURED BY FAB-CON, LLC OR APPROVED EQUAL.
5. THE FIRE DEPARTMENT CONNECTION VAULT SHALL HAVE A FRAME AND COVER ACCESS OPENING AS MANUFACTURED BY EAST JORDAN IRON WORKS. FRAME MODEL NO. 1045 AND COVER MODEL NO. 1040, SOLID TOP MARKED "WATER", OR APPROVED EQUAL.
6. THE SIAMESE POST SHALL BE INSTALLED IN THE VEGETATED AREA AND NOT OUT OF THE CONCRETE FIRE DEPARTMENT VAULT. THE VAULT SIZE SHALL BE AS SMALL AS NECESSARY TO INCREASE THE LANDSCAPED AREAS.
7. THE CHECK VALVE WITH BALL DRIP SHALL BE LOCATED IN THE CONCRETE VAULT ONLY.
8. SEE THRUST BLOCKING DETAILS AND NOTES FOR THRUST BLOCK REQUIREMENTS.

5 *SIAMESE CONNECTION DETAIL*
NOT TO SCALE



NOTE:
1. THE CONTRACTOR SHALL ADJUST/RESET AS NECESSARY THE VAULT/METER BOX TO ENSURE IT IS FLUSH WITH THE FINAL LANDSCAPING AROUND IT. HIGH OR LOW VAULTS/BOXES SHALL NOT BE ACCEPTED.
2. THE TYPICAL SIZE VAULT FOR THE DETECTOR CHECK IS 3' x 5' OR 4' x 6'. THE OVERALL SIZE IS DICTATED BY THE DETECTOR CHECK SIZE.

6 *REQ'D DETECTOR CHECK ASSEMBLY*
NOT TO SCALE



NOTES:
1. THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
2. CONCRETE SHALL BE KEPT CLEAR OF JOINT AND JOINT ACCESSORIES.
3. BEARING AREA OF THRUST BLOCKS ARE BASED ON 150 PSI TEST PRESSURE AND AN ALLOWABLE SOIL BEARING OF 2000 PSF. BEARING AREAS VALUES SHALL BE ADJUSTED IF THE SPECIFICATIONS REQUIRE A DIFFERENT TEST PRESSURE OR ALLOWABLE SOIL BEARING. PROVIDE ADDITIONAL AREA IF DICTATED BY THE CONDITIONS ACTUALLY ENCOUNTERED.
4. ANY SPECIAL THRUST BLOCKING DETAILED ON THE PLANS SHALL SUPERSEDE THIS DETAIL.
5. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME GREATER THAN 5 C.Y. REQUIRE SPECIAL BLOCKING DETAILS.
6. ALL PRESSURE PIPE 3 INCHES IN DIAMETER AND OVER SHALL BE PROVIDED WITH CONCRETE THRUST RESTRAINTS.

7 *THRUST BLOCKING DETAILS & NOTES*
NOT TO SCALE

TABLE "A"

BEARING AREA FOR THRUST BLOCKS SHALL BE ADJUSTED TO MATCH FIELD CONDITIONS ENCOUNTERED.

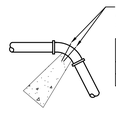
DIA. (IN.)	MINIMUM BEARING AREA OF THRUST BLOCKS (SQ. FT.)				
	TEE, WYE, PLUG, CAP	90° BEND PLUGGED CROSS	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.3	2.0	1.0	---	---
6	2.8	4.0	2.0	1.0	---
8	4.8	6.8	3.7	1.9	1.0
10	7.3	10.3	5.5	2.8	1.4
12	10.3	14.5	7.8	4.0	2.0
14	13.8	19.5	10.6	5.4	2.7
16	17.8	25.2	13.6	6.9	3.5
18	22.4	31.7	17.1	8.7	4.4
20	27.5	38.9	21.0	10.7	5.4
24	39.2	55.4	30.0	15.3	7.7
30	60.3	85.3	46.2	23.5	11.8
36	86.4	122.2	66.1	33.7	16.9
42	116.6	164.9	89.3	45.5	22.8
48	152.0	214.9	116.3	59.3	29.7
54	192.0	271.6	147.0	74.9	37.6

MINIMUM REQUIRED BEARING AREA FOR CONCRETE THRUST BLOCKS

HORIZONTAL

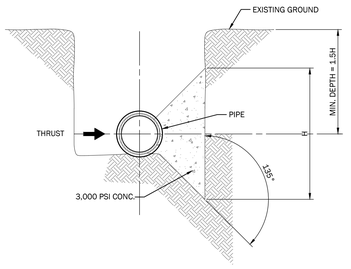
FITTING SIZE	MINIMUM VOLUME OF THRUST BLOCK IN CUBIC YARDS (VERTICAL BENDS)		
	BEND ANGLE		
	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.7
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.8	5.6	2.3

VERTICAL



STEEL RODS OVER FITTING AND EMBEDDED IN CONCRETE, COAT WITH BITUMASTIC. (SEE TABLE TO THE RIGHT FOR SIZES AND EMBEDMENT.)

FITTING SIZE	ROD SIZE	EMBEDMENT SIZE
12" and less	6	30"
14" - 16"	8	36"



YY *TYP. SECTION @ THRUST BLOCKS*
NOT TO SCALE

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ALABAMA LICENSED Adam H. Straughn No. 53482 PROFESSIONAL 01-14-26 ENGINEER ADAM H. STRAUGHN

CONSTRUCTION DOCUMENTS

DATE: 01/14/26
PROJ NO: 25-060

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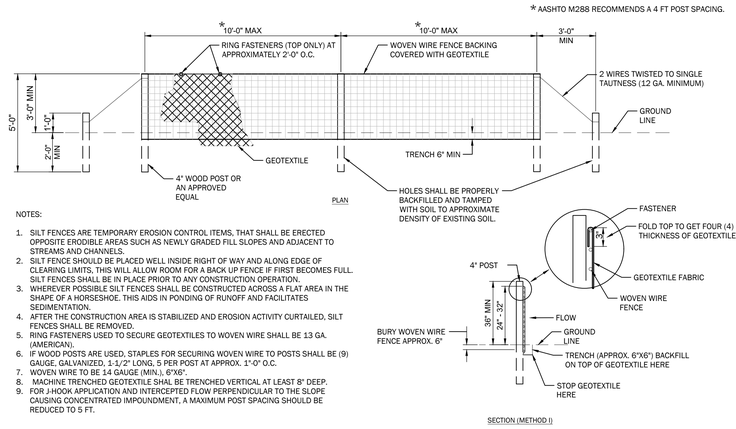
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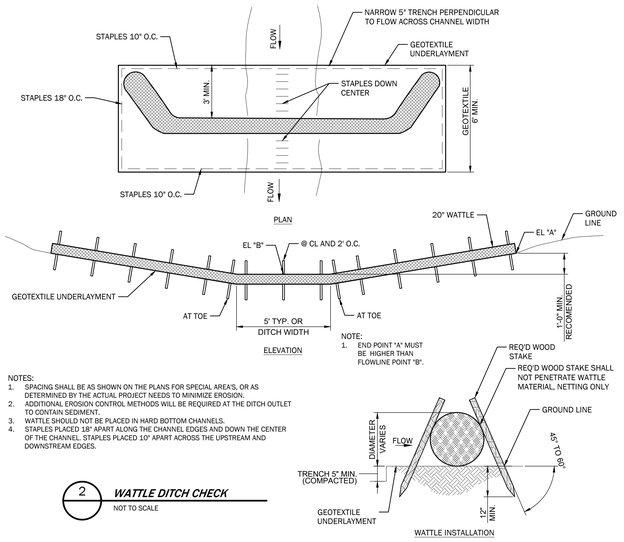
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Date: 01/14/26 | Job No.: 25-01-01533.00
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NOTES:

1. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS, THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
2. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT OF WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
3. WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
4. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
5. RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE SHALL BE 13 GA. (AMERICAN).
6. IF WOOD POSTS ARE USED, STAPLES FOR SECURING WOVEN WIRE TO POSTS SHALL BE (9) GAUGE, GALVANIZED, 1-1/2" LONG, 5 PER POST AT APPROX. 1'-0" O.C.
7. WOVEN WIRE TO BE 14 GAUGE (MIN.), 6"X6".
8. MACHINE TRENCHED GEOTEXTILE SHAL BE TRENCHED VERTICAL AT LEAST 8" DEEP.
9. FOR J-HOOK APPLICATION AND INTERCEPTED FLOW PERPENDICULAR TO THE SLOPE CAUSING CONCENTRATED IMPOUNDMENT, A MAXIMUM POST SPACING SHOULD BE REDUCED TO 5 FT.

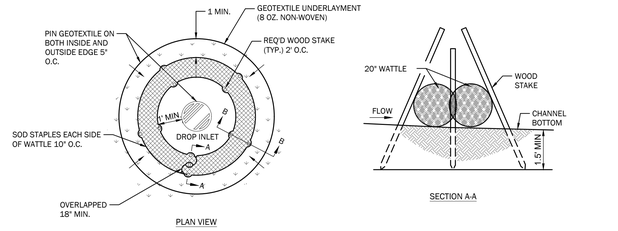
1 *SILT FENCE - TYPE "A"*
NOT TO SCALE



NOTES:

1. SPACING SHALL BE AS SHOWN ON THE PLANS FOR SPECIAL AREA'S, OR AS DETERMINED BY THE ACTUAL PROJECT NEEDS TO MINIMIZE EROSION.
2. ADDITIONAL EROSION CONTROL METHODS WILL BE REQUIRED AT THE DITCH OUTLET TO CONTAIN SEDIMENT.
3. WATTLE SHOULD NOT BE PLACED IN HARD BOTTOM CHANNELS.
4. STAPLES PLACED 18" APART ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES PLACED 10" APART ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.

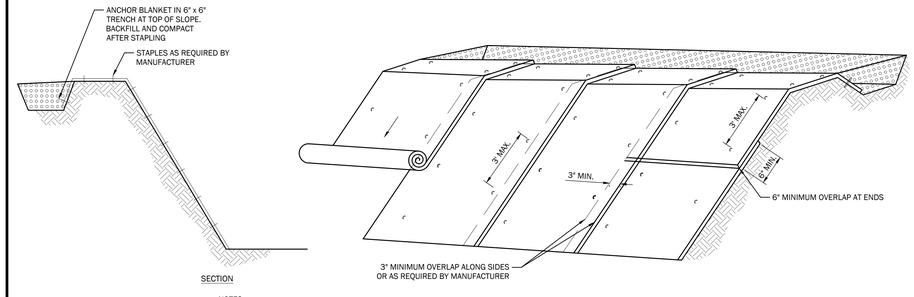
2 *WATTLE DITCH CHECK*
NOT TO SCALE



NOTES:

1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (18" MIN, 3' MAX).
*3. SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION. HAY BALES NOT ACCEPTABLE DURING THIS STAGE.

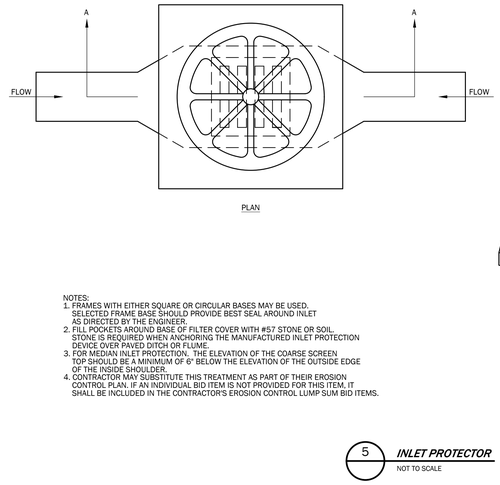
3 *WATTLE INLET PROTECTION*
NOT TO SCALE



NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS AND SOIL CLODS TO MAINTAIN GOOD SOIL CONTACT.
2. APPLY SEED, FERTILIZER, AND/OR LIME PRIOR TO THE INSTALLATION OF THE BLANKET.
3. STRIPS SHALL BE ROLLED OUT FLAT, PARALLEL TO DIRECTION OF FLOW WITHOUT BEING STRETCHED.
4. WHEN MULTIPLE STRIPS ARE REQUIRED TO COVER THE WIDTH OF THE SLOPE, THE SIDES SHALL OVERLAP A MINIMUM OF 3".
5. WHEN MULTIPLE STRIPS ARE REQUIRED TO COVER THE LENGTH OF THE SLOPE, THE ENDS SHALL OVERLAP A MINIMUM OF 6".
6. THE UPSLOPE END SHALL BE ANCHORED IN A 6" VERTICAL TRENCH AND BACKFILLED (NOTE: WHEN, IN THE OPINION OF THE QCP, CONDITIONS WARRANT, OTHER EDGES EXPOSED TO EXCESSIVE FLOW SHALL BE INSTALLED AS PREVIOUSLY SPECIFIED).
7. STAPLES SHALL BE U-SHAPED WIRE WITH A MINIMUM 11 GAUGE THICKNESS, AND THE LEGS SHALL BE AT LEAST 6" LONG WITH A 1" CROWN.
8. EACH STRIP SHALL BE STAPLED IN 3 ROWS, AT EDGES AND CENTER, WITH STAPLES SPACED NOT MORE THAN A 3 FOOT GRID.

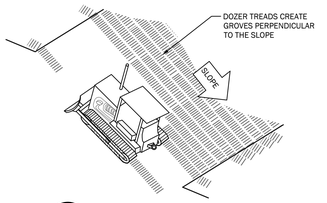
4 *TEMPORARY EROSION CONTROL BLANKET*
NOT TO SCALE



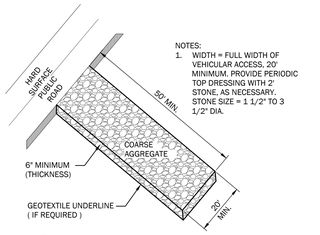
NOTES:

1. FRAMES WITH EITHER SQUARE OR CIRCULAR BASES MAY BE USED. SELECTED FRAME BASE SHOULD PROVIDE BEST SEAL AROUND INLET AS DIRECTED BY THE ENGINEER.
2. FILL POCKETS AROUND BASE OF FILTER COVER WITH #57 STONE OR SOIL. STONE IS REQUIRED WHEN ANCHORING THE MANUFACTURED INLET PROTECTION DEVICE OVER PAVED DITCH OR FLUME.
3. FOR MEDIAN INLET PROTECTION. THE ELEVATION OF THE COARSE SCREEN TOP SHOULD BE A MINIMUM OF 6" BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.
4. CONTRACTOR MAY SUBSTITUTE THIS TREATMENT AS PART OF THEIR EROSION CONTROL PLAN. IF AN INDIVIDUAL BID ITEM IS NOT PROVIDED FOR THIS ITEM, IT SHALL BE INCLUDED IN THE CONTRACTOR'S EROSION CONTROL LUMP SUM BID ITEMS.

5 *INLET PROTECTOR*
NOT TO SCALE



6 *SURFACE ROUGHENING*
NOT TO SCALE



NOTES:

1. WIDTH = FULL WIDTH OF VEHICULAR ACCESS, 20' MINIMUM. PROVIDE PERIODIC TOP DRESSING WITH 2' STONE, AS NECESSARY. STONE SIZE = 1 1/2" TO 3 1/2" DIA.

7 *CONSTRUCTION ENTRANCE/EXIT PAD*
NOT TO SCALE

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GENERAL NOTES

1. Any omissions or discrepancies between plans, details, and specifications shall be brought to the attention of the Architect or Engineer before bidding.
2. Structural drawings or parts of the structural drawings may not be used as shop drawings without prior written approval.
3. All or parts of these drawings were produced with computer aided drafting. Drawings are available from the Engineer in DWG format on request.
4. Contractor proposed changes to details must be clearly noted on the first sheet of all shop drawings.
5. Construction shown is stable after the building is complete including interior and exterior finishes. The Contractor is responsible for temporary bracing of the structure during construction.
6. Furnish design calculations sealed by a Professional Engineer licensed in the project state for all shoring.
7. Intersections of new and old construction illustrate interpretations of drawings on previous projects. Before starting any construction, verify all existing conditions.
8. Drawings on the existing building are available for review at the office of the Architect on request.
9. Site visits by Engineer of Record are not considered inspections or special inspections, rather are observations for general compliance with contract documents.
10. Electronic submittal of shop drawings is required. Review of submittal information shall be for general conformance with the contract documents and shall not include checking of detailed dimensions or detailed quantities.

DESIGN LOADS

1. Reference code for loading — IBC 2021 & ASCE/SEI 7-16
   - A. Building Classification — III
   - B. Wind Load
     - a. Basic Wind Speed (3 sec gust) — 118 mph
     - b. Wind Exposure — C
     - c. Internal Pressure Coefficient — +/- 0.18
     - d. Velocity Pressure (q_z) — 26.6 psf
     - e. Components & Cladding Pressures — See table and diagram
       - Service Level loads provided
       - Take minimum Dead Load as 20 psf
       - h = 13'-0"
       - a = 8'-0"
   - C. Seismic Load
     - a. Importance Factor — 1.25
     - b. Mapped Spectral Response Accelerations
       1. S_s — 0.191
       2. S_1 — 0.082
     - c. Site Class — D
     - d. Spectral Response Coefficients
       1. S_{DS} — 0.204
       2. S_{D1} — 0.131
     - e. Seismic Design Category — B
     - f. Base Seismic-Force-Resisting System(s) and Response Modification Factor
       1. Ordinary Reinforced Masonry Shear Walls — 2
       2. Steel Systems Not Specifically Detailed For Seismic — 3
     - g. Seismic Response Coefficient (C_s) — 0.05
     - h. Analysis Procedure = — Equivalent Lateral Force
   - D. Live Load
     - a. Roof — 20 psf
     - b. Slabs on grade — 100 psf
     - c. Stairs and exitways — 100 psf
   - E. Fluid Roof Pressure Load
     - a. Any low-roof area design for secondary drain height of 2" above roof: 5.2 psf/in x 2" = 10.4 psf

FOUNDATIONS

1. Foundation design for this project was based on soils information provided by TTL, Inc. Report #000250101533.00, dated July 7th, 2025.
2. Bearing value of soil: 2000 psf
3. Note that geotechnical report requires some overexcavation and that all footings are to bear on engineered fill or lean concrete per geotechnical report.
4. Provide 8'-0" long top steel reinforcing, same size as bottom steel, at transitions between engineered fill and undisturbed soil locations.
5. Install corner bars at all footing intersections and corners (Provide lap length e.w.).
6. Step all footings where necessary to provide a minimum of 1'-0" below the finish grade or 0'-8" below finish floor.
7. All footing elevations are given to the top of the footings.
8. Footing steps shown on the plans are furnished as a guide for estimating quantities. Final elevations are to be set in the field. Bearing elevations must be approved by a Soils Engineer before any concrete is placed.
9. Coordinate foundation elevations with plumbing requirements. Step footings down as required to clear plumbing lines.
10. Slabs on grade should be supported on 4" compacted dense graded base material (ALDOT 825B, #8910, or equivalent), compacted to a minimum of 98% compaction and +/- 3% optimum moisture based on ASTM D698, unless noted otherwise in construction documents or geotechnical report.

REINFORCING STEEL AND CONCRETE

1. All concrete work is to be in accordance with the "Building Code Requirements for Reinforced Concrete" (ACI 318-19).
2. All detailing is to be in accordance with "ACI Detailing Manual" (MNL-66).
3. Concrete Properties: See schedule
   - A. All concrete must obtain 7 day strength of 70% of design strength.
   - B. Concrete mixes may use up to 25% of cementitious weight as fly ash.
   - C. Concrete mixes may use water reducers, accelerators, or retarders with prior approval.
   - D. Do not provide air entrainment in concrete mixes for interior slabs.
4. All steel reinforcement shall be of deformed bars of billet steel conforming to ASTM A615, Grade 60 in all concrete.
5. Welded wire fabric (WWF) shall be ASTM A185 and shall lap (2) cross wires or 6", whichever is greater on all sides. All laps shall be wired together.
6. Provide (2) #4 bars x 4'-0" at re-entrant corner locations TYP. Locate 3" away from corner and space 0'-6" apart.
7. All slabs on grade are 4" unless noted otherwise. Reinforce slabs with 6x6 W1.4 x W1.4 WWF placed 1" from top of slab. See Architectural for floor slopes and recesses for hard tile.
8. Unless noted otherwise, slabs shall have joints placed at 12'-0" o.c. Joint layout length to width ratio not to exceed 1.5:1. Joints may be control joints or construction joints.
9. Minimum concrete cover for reinforcement:
   - A. Beams — 1 1/2" outside of stirrups
   - B. Footings — 3"
   - C. Grade Beams, Cast-In-Place Walls, & Column Piers
     - a. Surfaces exposed to weather or soil — 2" - #6 and greater, 1-1/2" - #5 and smaller
     - b. Other surfaces — 3/4"
10. Provide corner bars at all wall and footing intersections.
11. Contractor shall include an allowance of **2 tons** of reinforcing steel and **40 cubic yards** of concrete in addition to the steel & concrete shown on the contract documents in the base bid. This material is to be acquired, detailed, fabricated, and placed at no additional cost to the Owner in sizes and at locations as directed by the Architect or Engineer. Unused materials will be credited to the Owner.
12. No openings shall be allowed to penetrate any concrete work, unless it is shown on the structural framing plans, without prior written approval. Contractor shall submit for review locations of proposed openings not shown 30 days prior to pouring any concrete.
13. Provide a continuous water bar at all wall construction joints below ground level.
14. Use 3/4" chamfer for all exposed corners unless noted otherwise.
15. Mechanical openings through the floor have not been shown on the Structural drawings. See Mechanical plans for size and location of openings. Reinforcing at opening will be coordinated at time of placement.

MASONRY

1. All masonry work to be in accordance with "Building Code Requirements and Specifications for Masonry Structures" (TMS 402/602-16).
2. Fill all concrete masonry units with concrete or grout from the top of the footing to the finish floor or to 8" above finish grade, whichever is higher.
3. Use truss type joint reinforcement (BLOK-LOK BL-34 or better) at 16" o.c. in all cavity walls where brick is used for one or more of the wythes.
4. Use truss type joint reinforcement (DUR-O-WAL SW DA3100 or better) at 16" o.c. in all other masonry walls.
5. Provide joint reinforcement at 8" o/c. for all walls constructed with stack bond.
6. Use Type "S" mortar in accordance with IBC 2103.2.1, unless noted or approved otherwise.
7. Minimum compressive strength of concrete masonry f'_m = 2000 psi in accordance with the unit strength method and TMS 402/602-16.
8. Minimum compressive strength of grout f'_c = 2000 psi. Use 3/8" max size aggregate. See Special Inspection Schedule for any testing requirements. Grout slump shall be 8" to 11".
9. Use "Fine" grout for all reinforced piers and reinforced wall in accordance with ASTM C476.
10. Each grout lift shall not exceed 5'-0" unless cleanouts are provided in the bottom course.
11. Fill cells under all lintels with grout.
12. Provide lintels over all openings through wall. See lintel details for reinforcement.
13. Unless noted otherwise, provide control joints in all walls 4'-0" from wall intersections or corners and at 20'-0" o.c.
14. Provide continuous bond beam at 8'-0" o.c. vertical spacing and at top of wall, TYP.
15. Extend all horizontal steel and bond beams through control joints.
16. Vertical reinforcement shall extend into the bond beam and have ACI standard 90° degree hook.
17. Rebar positioners to be coordinated during submittals and used unless approved otherwise.
18. Unless noted, all vertical bars are to be located at the center of cell. Where bars are specified at each face, provide 3/4" clear space between reinforcement and CMU face shell.
19. Anchor bolt into grouted cell locations only, unless noted otherwise.
20. Non Load Bearing Interior CMU walls shall be reinforced with minimum #4 bars in fully grouted cells @ 4'-0" o.c. Provide Bond Beam at top of wall. Brace top of wall to roof structure with rigid bracing @ 8'-0" o.c.. Alternate each direction.
21. Anchor all steel columns to CMU walls @ 24" o.c. vertically into reinforced cell. See typical detail.

STEEL JOIST AND JOIST GIRDERS

1. All steel joists shall conform to the standard specifications for the joist noted, as adopted by the Steel Joist Institute.
2. Contractor must furnish design calculations sealed by a Professional Engineer for steel bar joist designs.
3. Joist designation Joist depth/Series/Total Load/Live Load/Net Uplift.
4. Refer to Components & Cladding Table and Diagram for roof uplift zones and pressures.
5. Do not camber joist placed on roof slopes greater than 2:12.
6. Refer to roof framing plan for uplift loading areas and diagrams.
7. Joist supplier has the option of combining joist sizes to a larger section.
8. K Series joists shall be welded to bearing plates or steel members with (2) 1/8" fillet welds with length 1".
9. LH and DLH Series joists shall be welded to bearing plates or steel members with (2) 1/4" fillet welds with length 2".
10. All K Series joists supported by concrete or masonry walls are to be supported by a 3/8" x 4" x 0'- 6" embed plate with (1) ¾" x 4" headed stud unless detailed otherwise. Plate to be located within ¾" of face of support.
11. All LH Series joists supported by concrete or masonry walls are to be supported by a 3/8" x 6" x 0'- 9" embed plate with (1) ¾" x 4" headed stud unless detailed otherwise. Plate to be located within ¾" of face of support.
12. All joist bearing plates are to be set 1/4" above the top of concrete masonry units.
13. Design cantilever ends of joist and joist outriggers for a uniform load of 50 psf and concentrated load on the end of section of 50 plf unless noted otherwise.
14. Weights of mechanical units are not included in the joist loading designation shown. Design locations and weights were not available at time of bid documents. Contractor is to coordinate the final locations and purchased final weights of the units with the Mechanical Subcontractor before submitting shop drawings from the joist supplier.

STRUCTURAL STEEL

1. All detailing, fabricating, and erection of structural steel shall be in accordance with the "Specification for Structural Steel Buildings" (AISC 360-16) and "Structural Welding Code - Steel" (AWS D1.1). All reactions shown are ASD loads.
2. All connections are to be detailed as Type 2 "simple frame connections," unless noted otherwise.
3. All structural steel W shapes shall be ASTM A992.
4. All structural steel Tube sections shall be ASTM A500 Grade C.
5. All structural steel channels, angles and other sections shall be ASTM A36, unless noted otherwise.
6. Headed Studs shall be Type B Shear Connectors.
7. Shop and field connections shall be welded with E70XX electrodes or bolted with 3/4" dia. A325-N or A325-X bolts, unless noted otherwise.
8. Use 3/4" cap and bearing plates, unless noted otherwise.
9. Use 3/4" dia x 1'-0" long ASTM F1554 Grade 36 anchor bolts, unless noted otherwise. In lieu of cast bolts, 3/4"x1'-0" long HAS rods epoxied with Hilti HVA epoxy, or equal, may be used with prior approval.
10. If anchor rods are installed without quite enough projection, contractor may submit elongated Elcone nuts for approval as a potential means to correct the issue.
11. Grout under baseplates with 6000 psi Non-Shrink Grout. For 3/4" dia. anchored baseplates, use 1.5" grout. For 1" dia. anchored baseplates, use 2" grout. Coordinate top of pier/footing elevations to accomodate grout thickness required.
12. Provide L3x3x1/4 frames around all roof openings through metal decking.
13. Provide L3x3x1/4 continuous perimeter deck angle around all deck, unless noted otherwise.
14. Where floor or roof decking changes direction, on top of support framing provide L2-1/2x2-1/2x3/16 continuously for 2-1/2" seats or C5x6.7 continuously for 5" seats.
15. Provide design calculations for connections other than standard frame or seat connections.
16. Structural steel shall be shop primed per SSPC-SP 7 / NACE No. 4. Primer shall be SSPC paint with a minimum thickness of 2.0 mils. Omit paint at surfaces to be fireproofed.
17. If steel sizes do not meet specified U.L. listing (See Arch), thickness of fire protections shall be increased as required.
18. All steel exposed to weather shall be hot dipped galvanized per ASTM A123.
19. All steel exposed to earth shall receive bitumen coating.
20. Contractor shall include an allowance of (**4**) tons of structural steel in place in addition to the steel shown on the contract documents in the base bid. This material is to be acquired, detailed, fabricated, and placed at no additional cost to the Owner in sizes and at locations as directed by the Architect or Engineer. Unused materials will be credited to the Owner.

Contractor shall include an allowance of **300** lineal feet of L3x3x1/4 angle in place in addition to the steel shown on the contract documents in the base bid. This material is to be acquired, detailed, fabricated, and placed at no additional cost to the Owner in sizes and at locations as directed by the Architect or Engineer. Unused materials will be credited to the Owner.

TESTING

1. All testing is to be completed under the supervision of the Structural Engineer.
2. The Owner will provide testing and special inspection under a separate contract. See the project specifications for schedule of special inspections.

EPOXY AND MECHANICAL ANCHORS

1. All anchors shall be installed per Manufacturer's instructions.
2. Contractor must get pre-approval from Engineer of Record before using post-installed epoxy or mechanical anchors not detailed in these drawings.

WOOD (STRUCTURAL)

1. All floor/roof framing shall be #2KD Southern Yellow Pine (SYP) or approved equal.
2. All vertical framing shall be #2 Spruce-Pine-Fir (SPF) or approved equal.
3. All wood exposed to weather or in contact with CMU or concrete shall be pressure treated in accordance with American Wood Preserves Association Manual of Recommended Practice.
4. All fasteners and nails in contact with pressure treated lumber to be stainless steel Type 304. Submit all alternates for approval.
5. Provide minimum of 2"x 6" top and bottom chord for all truss members.
6. Furnish design calculations sealed by a Professional Engineer licensed in the project state for all truss members.
7. Truss connections to walls and framing shall be designed and specified by Truss Supplier.
8. Roof decking shall be 3/4" APA-rated sheathing, Exposure 1 with 32/16 span rating. Provide plyclips at all roof sheathing connections, unless noted otherwise.
9. Floor and roof sheathing shall be nailed with 8d ring shank nails at 6" o.c.
10. All bolts connecting horizontal sill plates to concrete, masonry, or steel shall have minimum 0.229"x3"x3" flat washers.

METAL STUDS (STRUCTURAL)

1. All detailing, fabricating, and erection of cold formed steel shall be in accordance with the AISI S100-16 "North American Specification for the Design of Cold-Formed Steel Structural Members".
2. All studs, joists, tracks, bridging, and accessories shall be a minimum of G60 galvanized and have minimum yield strength of 33ksi, unless noted otherwise.
3. Top and bottom tracks to be same gauge as studs unless noted otherwise.
4. Provide double studs at all wall intersections, jambs, corners, and intersections.
5. At all openings in walls, provide additional studs each side of opening to replace members cut at the opening.
6. Provide (2) 8"x14ga headers at all openings, unless noted otherwise on structural drawings.
7. Provide blocking or strapping at a maximum of 4'-0" - see typical detail.
8. All wall studs to have full bearing at top and bottom of stud.
9. Limit deflection of studs supporting brick to H/600.
10. Use a minimum of 18 gauge for studs used with brick anchors.
11. Limit deflection of all studs not supporting brick to H/360.
12. Unless noted otherwise, all steel stud information should be considered to be schematic. Final design is to be provided by the stud supplier. Provide shop drawings and design calculations sealed by a Professional Engineer licensed in the project state for all members.
13. The minimum sizes, spacing, gauges, connections, details, and other information required to construct the load-bearing metal stud framing are shown on the contract documents. Unless otherwise indicated, all cold-formed metal stud information should be considered schematic in nature. Final design is to be provided by the contractor's stud supplier.
14. Provide shop drawings and design calculations sealed by a Professional Engineer licensed in the project state for all members. These are to include the proposed load-bearing metal stud manufacturer's product data, cut sheets, structural properties, recommended construction details, and details for all members and connections. Shop drawings are required to be reviewed by the design team prior to fabrication and installation of load-bearing metal stud framing.
15. The contractor has the option to propose alternative framing methods or components. The contractor shall submit shop drawings and calculations on the proposed alternative framing system for review by the Architect and Engineer. All design calculations for the alternative framing methods or components shall be sealed by a Professional Engineer licensed in the state of the project. The Professional Engineer shall provide a signed statement signifying they have reviewed the stud framing shop drawings for the alternative framing system and that the drawings conform to their calculations. The proposed alternate framing system shall be designed for the loads indicated below.

CONCRETE SCHEDULE

Concrete Use	Design Strength	Max W/C Ratio	Slump Limits	Entrained Air Range	Weight	Notes
Columns & Piers	4000 psi	n/a	6" to 8"	3% to 5%	150 pcf	Use HRWR
Exterior Slabs on Grade	4000 psi	n/a	6" to 8"	3% to 5%	150 pcf	Use HRWR
Footings	3000 psi	n/a	3" to 5"	3% to 5%	150 pcf	-
Interior NW Slabs on Metal Deck	4000 psi	n/a	6" to 8"	no air	150 pcf	Use HRWR
Interior Slabs on Grade	4000 psi	n/a	6" to 8"	no air	150 pcf	Use HRWR

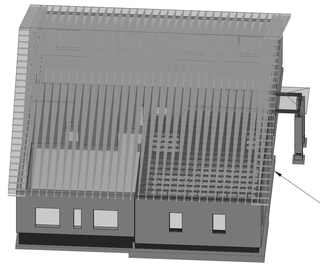
NOTE: Add 5pcy of microfiber to exterior 4000psi concrete slab/pad mix for for the pre-engineered cooler/freezer. Refer to foundation plan & Arch for more information.

SPREAD FOOTING SCHEDULE

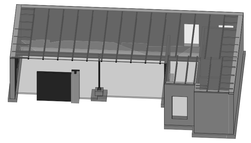
Mark	Width	Length	Thickness	Reinforcing	Estimated Number Required
F36	3' - 0"	3' - 0"	1' - 0"	(4) #4 bars e.w.	11
F48	4' - 0"	4' - 0"	1' - 0"	(6) #4 bars e.w.	9
F72	6' - 0"	6' - 0"	2' - 0"	(7) #5 bars e.w. t&b	6

STRIP FOOTING SCHEDULE

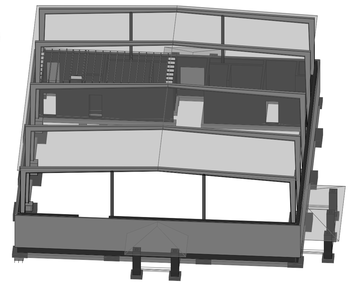
Type	Width	Thickness	Reinforcing	Estimate of Length
W24	2' - 0"	1' - 0"	(3)#4 bars cont w/ #4 bars @ 12" o.c. Short	389'
<varies>	2' - 4"	1' - 0"	(4)#4 bars cont w/ #4 bars @ 12" o.c. Short	963'
W36	3' - 0"	1' - 0"	(4)#4 bars cont w/ #4 bars @ 10" o.c. Short	357'
W48x24	4' - 0"	2' - 0"	(6)#6 bars cont t&b w/ #5 bars @ 12" o.c. Short t&b	583'



Shelter in this corner of the classroom addition.



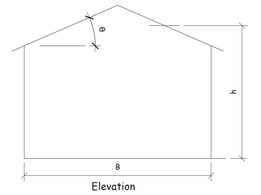
Working - Structural



REVISION - SHEET NUMBER

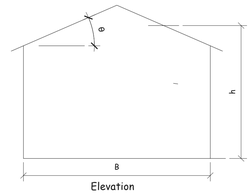
Sheet Number	Sheet Name	Current Revision	Current Revision Description
S000	GENERAL NOTES		
S001	TYPICAL DETAILS		
S002	TYPICAL MASONRY DETAILS		
S003	TYPICAL COLD FORMED STEEL DETAILS		
S004	TYPICAL RTU DETAILS & ROOF DECK OPENINGS		
S100	FOUNDATION PLAN OF CLASSROOM ADDITION		
S101	FOUNDATION PLAN OF CAFETERIA & GYM ADDITION		
S300	ROOF FRAMING PLAN OF CLASSROOM ADDITION		
S301	ROOF FRAMING PLAN OF CAFETERIA & GYM		
S400	SHELTER GENERAL NOTES		
S401	SHELTER TYPICAL DETAILS		
S402	SHELTER PLANS		
S403	SHELTER SECTIONS		
S500	SECTIONS & DETAILS		
S501	SECTIONS & DETAILS		
S502	SECTIONS & DETAILS		
S503	SECTIONS & DETAILS		

Gable Roofs 7° - 20°



Elevation

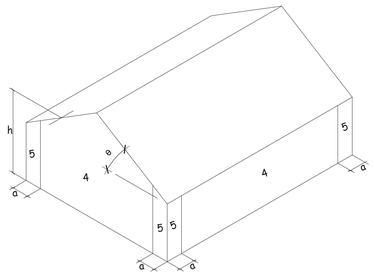
Hip Roofs 7° - 20°



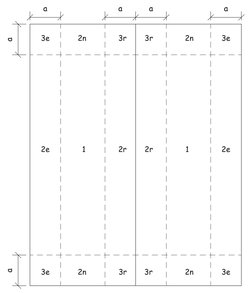
Elevation

a = 10% of least horizontal dimension or 0.4h, whichever is smaller, but not less than either 4% of least horizontal dimension or 3 ft, **except** for buildings with θ < 7° and a least horizontal dimension greater than 300 ft where a shall be limited to a maximum of 0.8h.
B = Horizontal dimension of building measured normal to wind direction.
h = Mean roof height, ft, except that eave height shall be used for θ < 10°
W = Building width
θ = Angle of plane of roof from horizontal

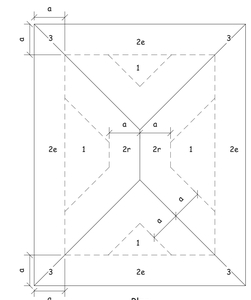
Walls



Iso



Plan



Plan

Components & Cladding Wind Loads - Gable Roofs (7° - 20°)

Area	Zone 1 (+)	Zone 1 (-)	Zone 2e (+)	Zone 2e (-)	Zone 2n (+)	Zone 2n (-)	Zone 2r (+)	Zone 2r (-)	Zone 3e (+)	Zone 3e (-)	Zone 3r (+)	Zone 3r (-)	Zone 4 (+)	Zone 4 (-)	Zone 5 (+)	Zone 5 (-)
10 SF	28.8 psf	-67.8 psf	28.8 psf	-67.8 psf	28.8 psf	-94.4 psf	28.8 psf	-94.4 psf	28.8 psf	-94.4 psf	28.8 psf	-110.3 psf	41.2 psf	-43.9 psf	41.2 psf	-51.8 psf
20 SF	27.0 psf	-67.8 psf	27.0 psf	-67.8 psf	27.0 psf	-82.9 psf	27.0 psf	-82.9 psf	27.0 psf	-82.9 psf	27.0 psf	-95.9 psf	39.8 psf	-42.4 psf	39.8 psf	-49.0 psf
50 SF	24.5 psf	-45.1 psf	24.5 psf	-45.1 psf	24.5 psf	-67.8 psf	24.5 psf	-67.8 psf	24.5 psf	-67.8 psf	24.5 psf	-76.9 psf	37.9 psf	-40.6 psf	37.9 psf	-45.3 psf
100 SF	22.6 psf	-27.9 psf	22.6 psf	-27.9 psf	22.6 psf	-56.3 psf	22.6 psf	-56.3 psf	22.6 psf	-56.3 psf	22.6 psf	-62.5 psf	36.5 psf	-39.2 psf	36.5 psf	-42.4 psf
500 SF	22.6 psf	-27.9 psf	22.6 psf	-27.9 psf	22.6 psf	-41.2 psf	22.6 psf	-41.2 psf	22.6 psf	-41.2 psf	22.6 psf	-62.5 psf	33.2 psf	-35.9 psf	33.2 psf	-35.9 psf

Components & Cladding Wind Loads - Hip Roofs (7° - 20°)

	Zone 1m (+)	Zone 1m (-)	Zone 1g (+)	Zone 1g (-)	Zone 2em (+)	Zone 2em (-)	Zone 2eg (+)	Zone 2eg (-)	Zone 2r (+)	Zone 2r (-)	Zone 3 (+)	Zone 3 (-)	Zone 4 (+)	Zone 4 (-)	Zone 5 (+)	Zone 5 (-)
10 SF	28.4 psf	-33.9 psf	28.4 psf	-33.9 psf	28.4 psf	-43.0 psf	28.4 psf	-43.0 psf	28.4 psf	-54.0 psf	28.4 psf	-43.0 psf	28.4 psf	-30.2 psf	28.4 psf	-35.7 psf
20 SF	27.4 psf	-33.9 psf	27.4 psf	-33.9 psf	27.4 psf	-40.0 psf	27.4 psf	-40.0 psf	27.4 psf	-49.3 psf	27.4 psf	-40.0 psf	27.4 psf	-29.2 psf	27.4 psf	-33.7 psf
50 SF	26.1 psf	-30.7 psf	26.1 psf	-30.7 psf	26.1 psf	-30.7 psf	26.1 psf	-36.1 psf	26.1 psf	-43.2 psf	26.1 psf	-36.1 psf	26.1 psf	-27.9 psf	26.1 psf	-31.2 psf
100 SF	25.1 psf	-28.4 psf	25.1 psf	-28.4 psf	25.1 psf	-33.2 psf	25.1 psf	-33.2 psf	25.1 psf	-38.5 psf	25.1 psf	-33.2 psf	25.1 psf	-27.0 psf	25.1 psf	-29.2 psf
500 SF	22.9 psf	-28.4 psf	22.9 psf	-28.4 psf	22.9 psf	-30.2 psf	22.9 psf	-30.2 psf	22.9 psf	-33.9 psf	22.9 psf	-30.2 psf	22.9 psf	-24.7 psf	22.9 psf	-24.7 psf

DELEGATED DESIGN – ALUMINUM AWNINGS/CANOPIES

1. Reference Architectural drawings for layout, location, size, configuration, etc. for all awnings and canopies.
2. Contractor to provide blocking details at frame and tie rod connection points and then field locate blocking based on connection points shown in awning shop drawing submittal.
3. Provide shop drawings showing: product data, cut sheets, structural properties, plan views, section views, and detail views.
4. Contractor to provide calculations for all members and connections. Calculations to be signed and sealed by a Professional Engineer licensed in the State of the Project.

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CHILTON COUNTY BOARD OF EDUCATION

ALABAMA LICENSED +1-14-2026* No. 33979 PROFESSIONAL ENGINEER JOSHUA D. MORRIS

CONSTRUCTION DOCUMENTS

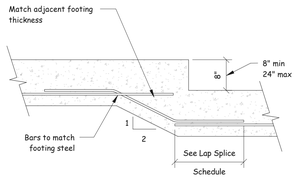
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PROJ NO: 24-100

REVISIONS

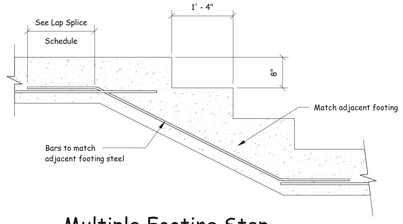
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GENERAL NOTES

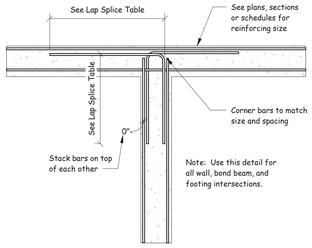
S000



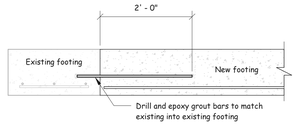
Single Footing Step



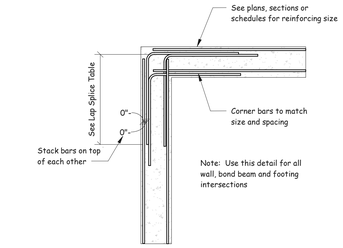
Multiple Footing Step



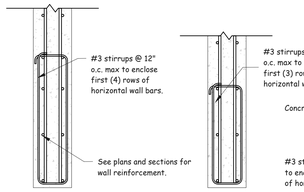
Typical Beam, Wall or Footing Reinforcing at Intersections



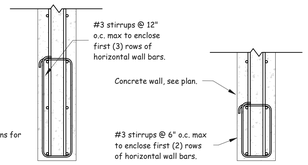
Typical New Footing to Existing Footing Details



Typical Beam, Wall or Footing Reinforcing at Corners

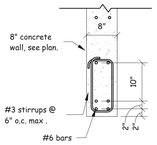


Spans 11'- 0" and Less



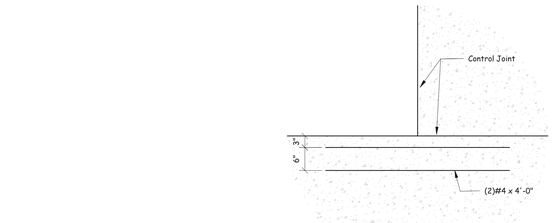
Spans 8'- 0" and Less

Spans 4'- 0" and Less

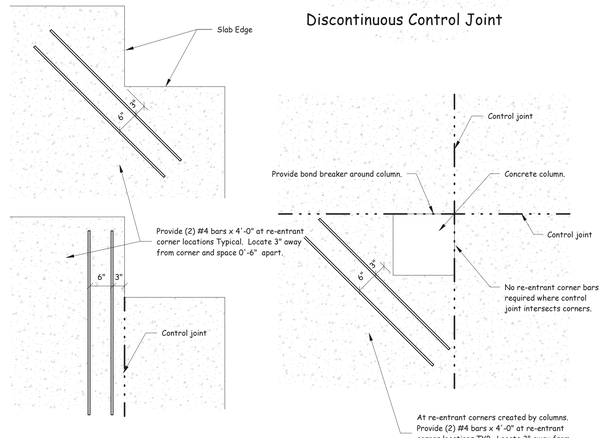


Openings in 8" Walls

Typical Concrete Beam Over Openings



Discontinuous Control Joint



Typical Re-entrant Corner Reinforcing

Note: If control joint hits re-entrant corner in both directions, no re-entrant corner bars are required.

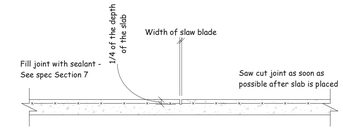
Reinforcing Steel Lap Splice Lengths				
Bar Size	Column Splices	Bm, Ftg & Wall Splices Top Bars	Bm, Ftg & Wall Splices Other Bars	CMU Wall Splices
# 3	12"	19"	15"	18"
# 4	15"	25"	19"	24"
# 5	19"	31"	24"	30"
# 6	23"	37"	29"	36"
# 7	26"	54"	42"	42"
# 8	30"	62"	48"	48"
# 9	34"	70"	54"	54"
# 10	38"	79"	61"	60"
# 11	42"	87"	67"	66"

4000 psi Concrete

Notes:
1. Top bars are any horizontal reinforcing steel that has another layer of steel more than 2" below the bars or reinforcing steel that has more than 12" of concrete below the bars.
2. All horizontal reinforcing bars in walls may be detailed as "Other Bars".
3. All corner bars may be detailed as "Other Bars".

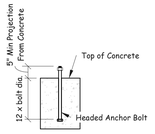
Reinforcing Steel Lap Splice Lengths		
Bar Size	Footing & Grade Beams Top Bars	Footing & Grade Beams Other Bars
# 3	24"	24"
# 4	33"	24"
# 5	42"	28"
# 6	50"	33"
# 7	72"	49"
# 8	82"	55"

3000 psi Concrete

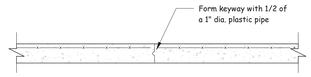


Note: Saw cut joint must be made the same day the slab is placed

Typical Control Joint

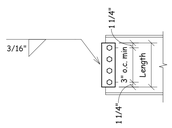


Typical Anchor Bolt Detail

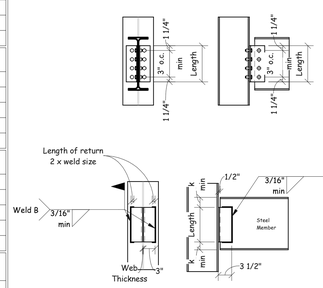


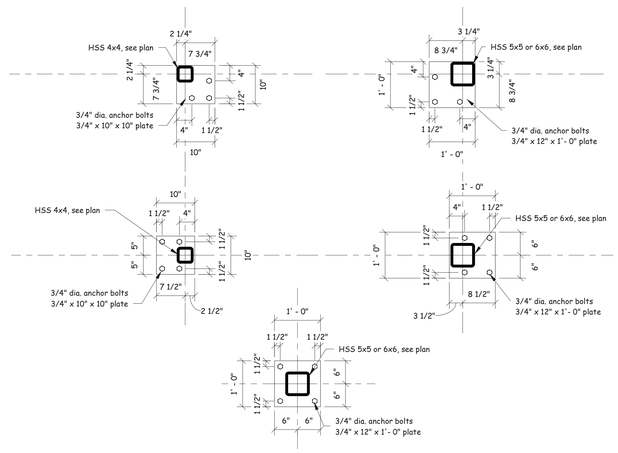
Typical Construction Joint

Shear Plate Connection Schedule			
Length	# of bolts	End reaction	Min plate thickness
6"	2	14.7k	1/4"
9"	3	22.0k	1/4"
12"	4	29.4k	1/4"
15"	5	36.7k	1/4"
18"	6	44.1k	1/4"
21"	7	51.4k	1/4"



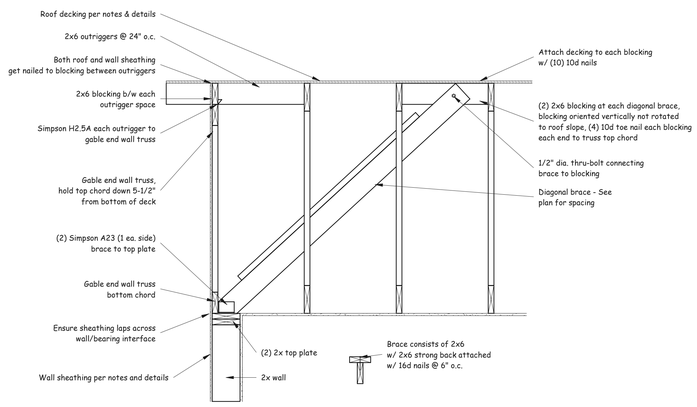
Frame Connection Schedule			
Length	# of bolts	End reaction	Min angle thickness
5-1/2"	2	40.8k	5/16"
8-1/2"	3	63.9k	5/16"
11-1/2"	4	84.5k	5/16"
14-1/2"	5	105k	5/16"
17-1/2"	6	125k	5/16"
Length	Size of Weld A	End reaction	Min angle thickness
5-1/2"	3/16"	46.3k	5/16"
8-1/2"	3/16"	69.7k	5/16"
11-1/2"	3/16"	84.3k	5/16"
14-1/2"	3/16"	111k	5/16"
17-1/2"	3/16"	124k	5/16"
Length	Size of Weld B	End reaction	Min angle thickness
5-1/2"	1/4"	15.6k	5/16"
8-1/2"	1/4"	35.4k	5/16"
11-1/2"	1/4"	50.4k	5/16"
14-1/2"	1/4"	82.3k	5/16"
17-1/2"	1/4"	98.5k	5/16"
Depth of beam	Min length of angle	Depth of beam	Min Length of angle
W12	5-1/2"	W24	11-1/2"
W14	8-1/2"	W27	14-1/2"
W16	8-1/2"	W30	14-1/2"
W18	8-1/2"	W33	17-1/2"
W21	11-1/2"	W36	17-1/2"





Typical Base Plate

TYPICAL BASE PLATE NOTES:
- All anchors to be cast-in-place, unless specifically approved otherwise.
- Baseplate orientations and configurations to be coordinated during submittals.
- 3/4" dia. bolts w/ 3/4" or 1" BPL, to have 1.5" grout max, require 5" projection, top of supporting concrete located a minimum of 8" below finish floor and that the supporting pier or footing be a minimum of 12" tall/deep.



Typical Gable Truss Bracing

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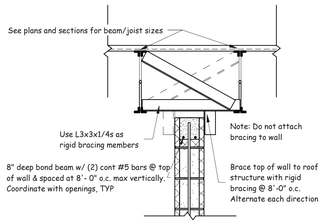
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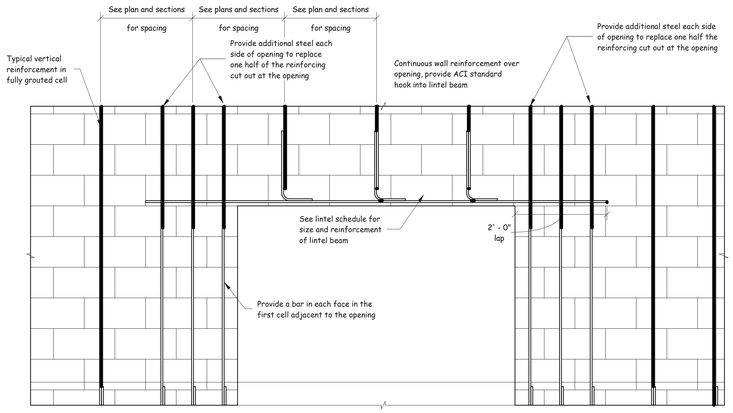
TYPICAL DETAILS

S001

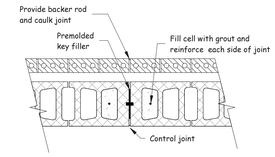
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Typical Bracing Option for Top of Interior Non- Load Bearing CMU Walls

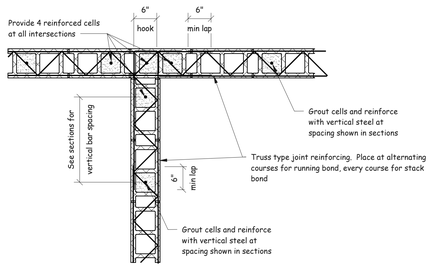


CMU Lintel Elevation

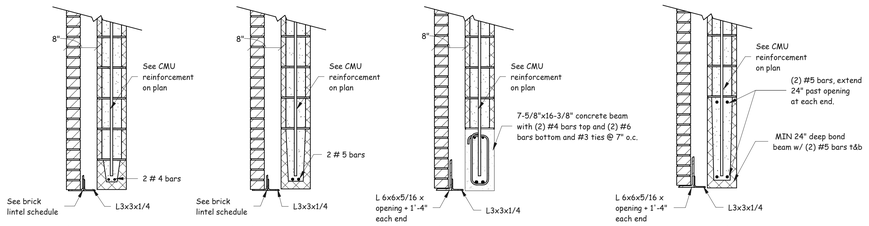


Note:
1. See Arch for spacing. If spacing is not shown place joints at 3 times the wall height but not greater than 40'-0" o.c.
2. Extend all horizontal reinforcing including bond beam steel thru control joints.

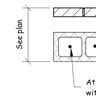
Typical Masonry Wall Control Joint



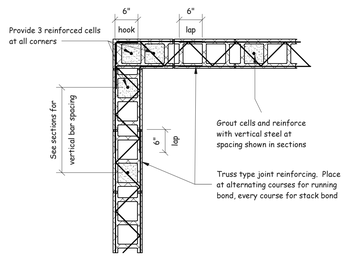
Typical Joint Reinforcing at Intersection



Typical CMU Lintel Details



Typical Masonry Jamb Detail



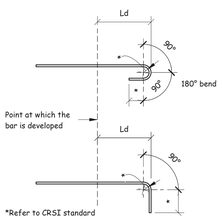
Typical Joint Reinforcing at Corner

Brick Lintel Schedule		
Span	Lintel Size	Bearing Each End
≤ 4'-0"	L 3-1/2 x 3-1/2 x 5/16	8"
≤ 6'-0"	L 4 x 3-1/2 x 5/16	8"
≤ 8'-0"	L 5 x 3-1/2 x 5/16	8"
≤ 10'-0"	L 6 x 3-1/2 x 5/16	8"
≤ 12'-0"	L 7 x 4 x 3/8	16"
≤ 14'-0"	L 8 x 4 x 7/16	16"

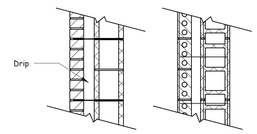
LINTEL NOTES:
1. All brick lintel angles are to be galvanized, long leg vertical, and shall fully bear on brick veneer.
2. Excluding any vertical brick relief steel that is attached to the structure at an elevated floor level, ALL vertical legs of standard brick lintels are to be positioned away from the structure and located against the back of the brick veneer. Vertical legs of standard brick lintels are sized such that they can not be moved away from the back of the brick veneer to where the vertical leg is up against the structure. See Arch for more detailed information of how to close any gaps between the exterior wall and the lintel.
3. Lintels for arched openings are not covered by standard lintel schedule.

Reinforcing Steel Lap Splice & Development Length for Concrete Masonry				
Bar Size	Bar in center of wall			Bar in each face of wall
	6" CMU	8" CMU	12" CMU	
# 3	16"	16"	16"	16"
# 4	21"	21"	21"	30"
# 5	32"	26"	26"	46"
# 6	61"	43"	40"	85"
# 7	N/A	60"	46"	115"
# 8	N/A	N/A	61"	N/A

Notes:
1. Lengths are for vertical splices in wall.
2. Bar length for center of wall based on f'_m of 1500psi or greater.
3. Bar length for face of wall are based on f'_m of 2000psi or greater.
4. Refer to General Notes and details for masonry strength.



*Refer to CRSI standard bending dimensions



Exterior Masonry Wall Details

Note:
Place joint reinforcing shown @ 16" o.c. vertical in running bond block walls.
Place joint reinforcing @ 8" o.c. in stack bond walls

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1-14-2026
MICHAEL JOSHUA DOSS

CONSTRUCTION DOCUMENTS

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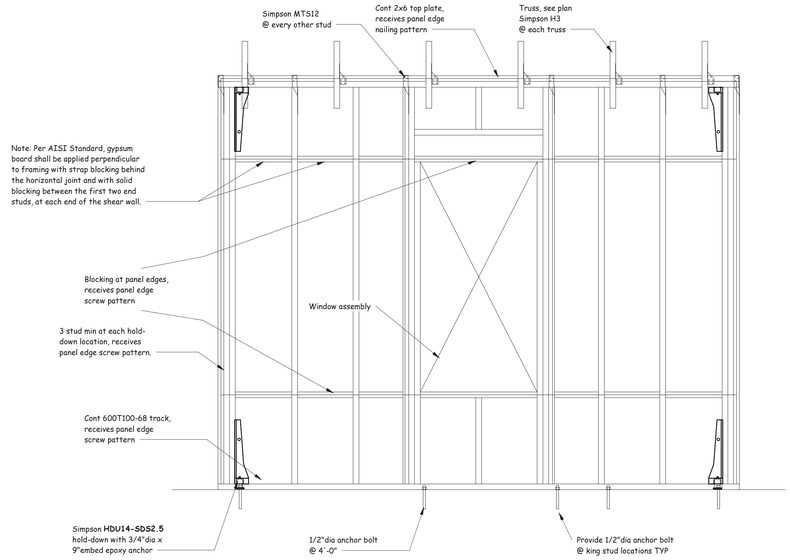
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TYPICAL MASONRY DETAILS

S002

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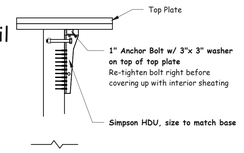


Shearwall Elevation

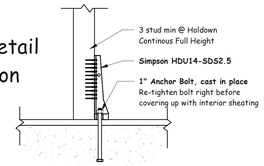
3/4"=1'-0"

Notes:
1. All panel edges of shear walls are to be blocked w/ strap blocking each side of shear wall.
2. All perimeter shear walls shall be sheathed along the exterior with 5/8" densglass with #6 wafer head self drilling screws @ 4" along blocked panel edges and then @ 4" along studs behind panel interior. The perimeter walls shall be sheathed along the interior with 5/8" gypsum panels fastened with # 6 wafer head self drilling screw @ 4" along blocked panel edges and then @ 4" along with other walls located on plans.
3. All perimeter and corridor walls are shear walls along with other walls indicated on plans.
4. Provide Simson **HDU14-SDS2.5** hold-downs at ends of all shear walls unless noted otherwise
5. All other shear walls shall be sheathed with min of 5/8" type X gypsum panels each side fastened with #6 wafer head self drilling screws @ 4" o.c. along blocked panel edges and then @ 8" along studs behind panel interior.

Holdown Detail Roof



Holdown Detail Foundation



Typical Perimeter Stud Walls are load bearing and also serve as shear walls.

Typical perimeter stud walls are to be 6" deep, no less than 18ga, and to be spaced no more than 16" on center. Final design is by contractor's light gauge designer. Shop drawings and details shall be stamped by an engineer licensed in the state of Alabama.

BJW has detailed how to address the in-plane lateral loading along perimeter walls for sheathing attachment.

Contractor's light gauge designer is responsible for localized design and detailing of light gauge framing for gravity and out of plane loading.

Final design/detailing of light gauge studs and light gauge rafter framing, headers, jambs, and all connections to the structure is to be performed by the contractor's light gauge designer/detailer and submitted for review/approval during shop drawings. Refer to general notes & Architect for more information.

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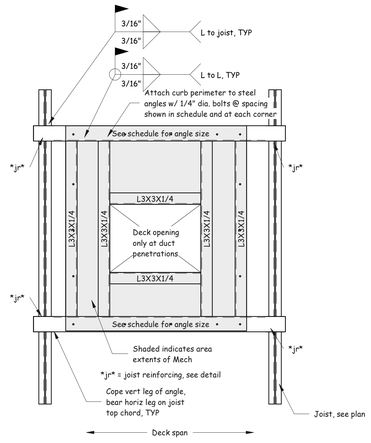
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TYPICAL COLD FORMED STEEL DETAILS

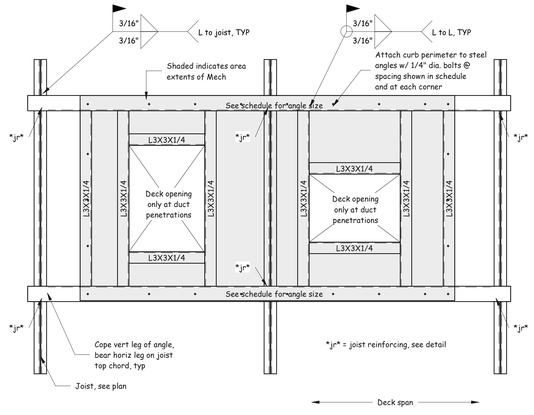
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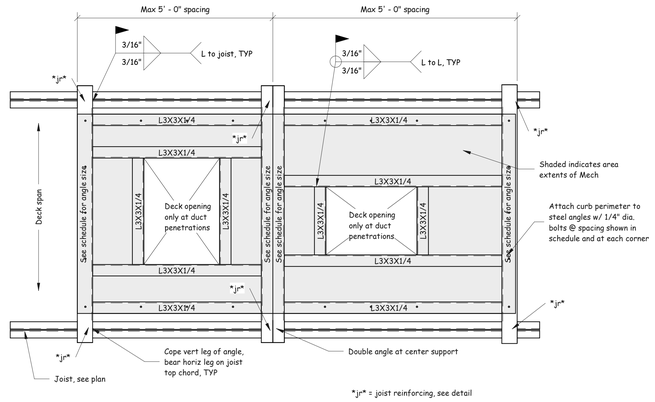
Roof Mechanical Support - Square

Min 16 gauge for RTU curbs



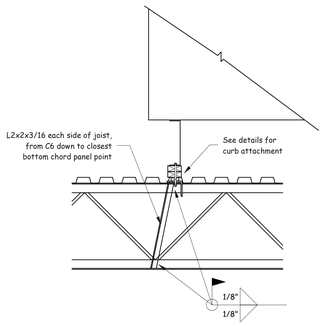
Roof Mechanical - Rectangular
Long Dimension Perpindicular to Joists

Min 16 gauge for RTU curbs



Roof Mechanical - Rectangular
Long Dimension Parallel to Joists

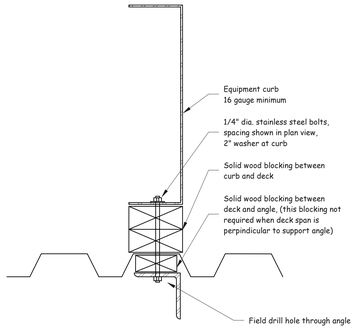
Min 16 gauge for RTU curbs



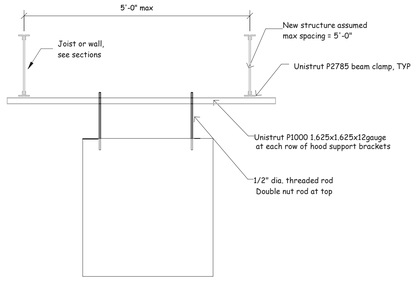
Joist Reinforcing at Mechanical Equipment

indicated by *jr* in details this sheet

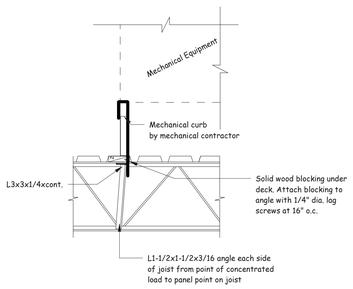
Support Angle Schedule	
Total Weight Unit + Curb	Main Support Angle Size
< 1000 lbs < 2000 lbs < 3000 lbs	L3x3x1/4 L4x4x1/4 L6x4x1/4 LLV
Bolt Attachment Schedule	
V_{ult} (mph)	1/4" dia. bolt spacing (inches)
115 mph	24" o.c.



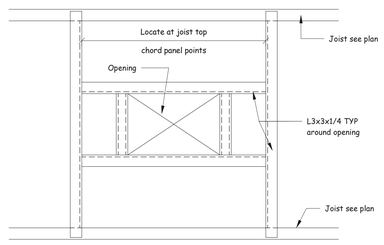
Curb to Angle Attachment



Kitchen Hood Support



Typical Mechanical Equipment Support Details



Typical Frame at Roof Deck Opening

BUILDING CODE
1. 2021 International Building Code

GENERAL NOTES
1. Any omissions or discrepancies between plans, details, and specifications shall be brought to the attention of the Architect or Engineer before bidding.
2. See Mech dwgs or equipment supplier for weights of new equipment.
3. Intersections of new and old construction illustrate interpretations of drawings and assumed conditions. Before starting any construction verify all existing conditions. If assumptions shown in this drawing do not match existing conditions, notify Architect and Engineer.

STEEL
1. Threaded rods shall be A36.
2. All structural steel members to be ASTM A36.
3. All welding to be done with E-70XX electrodes.

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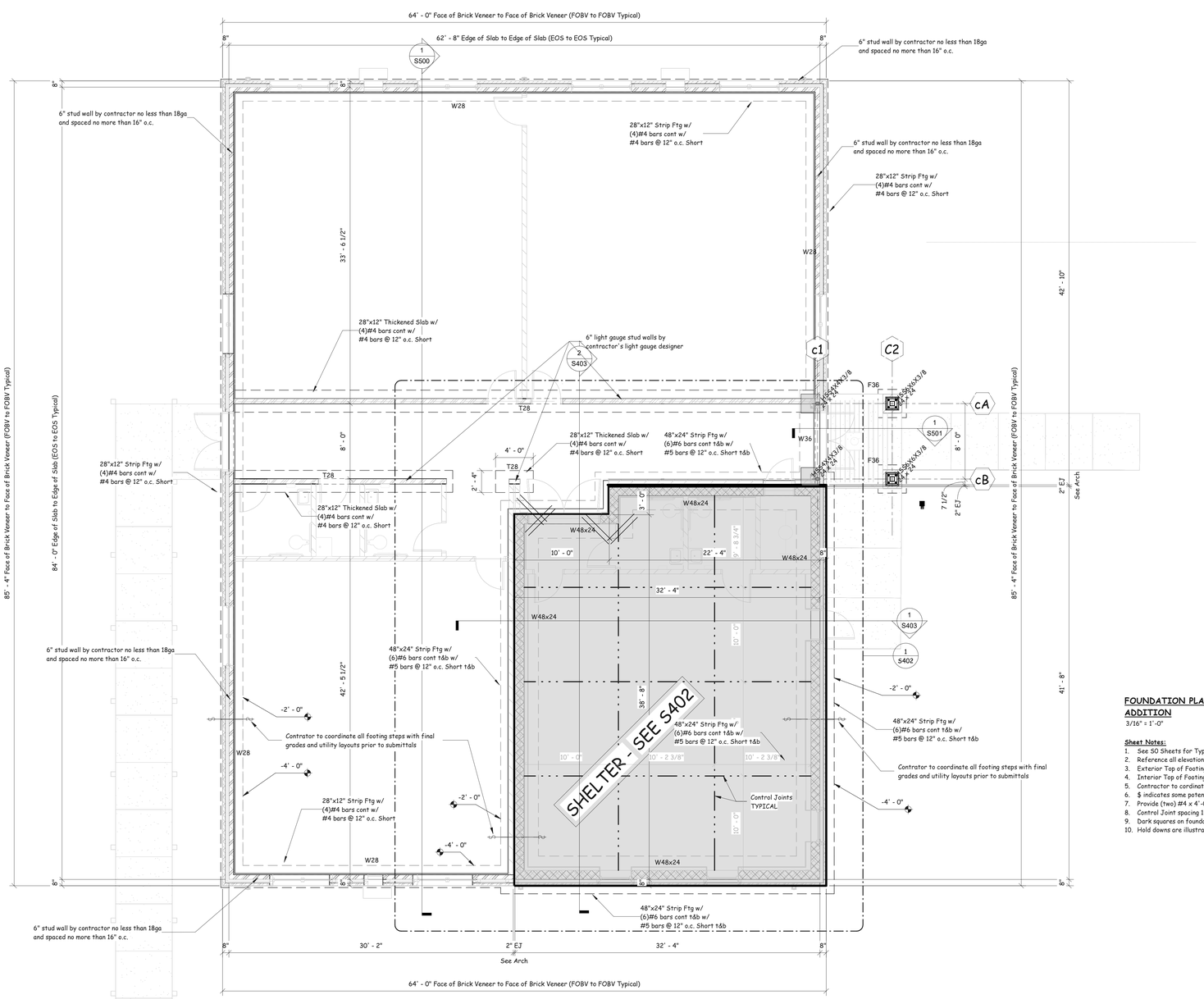
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TYPICAL RTU DETAILS & ROOF DECK OPENINGS

S004

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FOUNDATION PLAN OF CLASSROOM ADDITION

3/16" = 1'-0"

Sheet Notes:

1. See S0 Sheets for Typical Details & General Notes
2. Reference all elevations to FF EL (+)0'-0"
3. Exterior Top of Footing EL (-)12'-0" below FF min /or/ 1'-0" below adjacent grade min, coordinate w/ Civil whichever is greater TYP
4. Interior Top of Footing EL (-)0'-8" below FF min Typ
5. Contractor to cordinate foundation elevations with plumbing requirements prior to shop drawing submittals. Step footings down as required to clear plumbing lines.
6. $ indicates some potential footing step locations. Final footing step locations and quantities are to be illustrated and coordinated by the contractor.
7. Provide (two) #4 x 4'-0" at all re-entrant corners, space 6" off each corner.
8. Control Joint spacing 12'-0" max/ see typical detail, coord layout w/ arch/tenant.
9. Dark squares on foundation plan indicate min of triple stud packs at ends of shear walls. **(~13) shear wall and packs** Total. Refer to plan and S001.
10. Hold downs are illustrated on the sides of the triple stud packs in the direction of the shear walls. **(~36) holdowns** Total. Refer to plan and S001.



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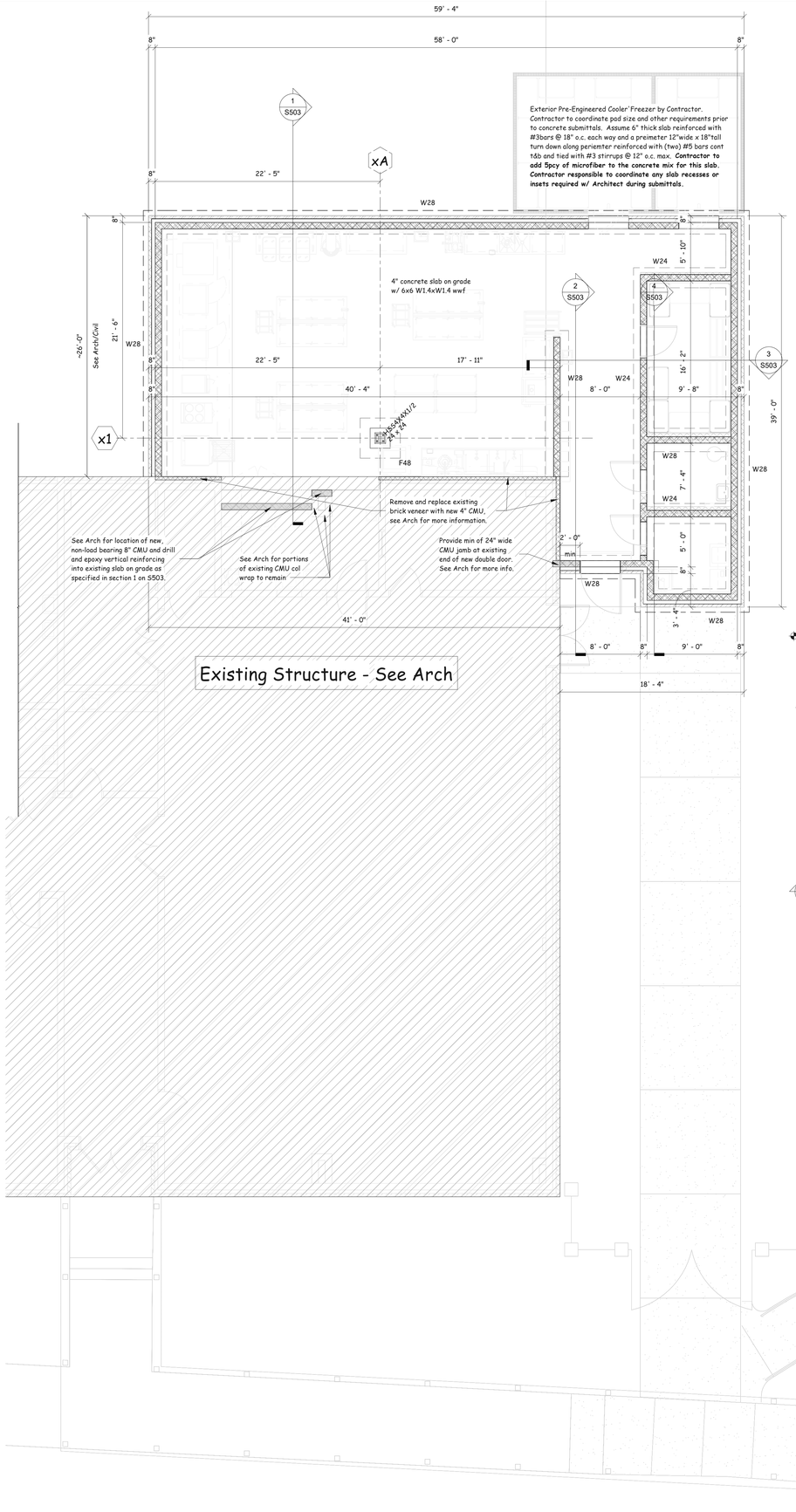
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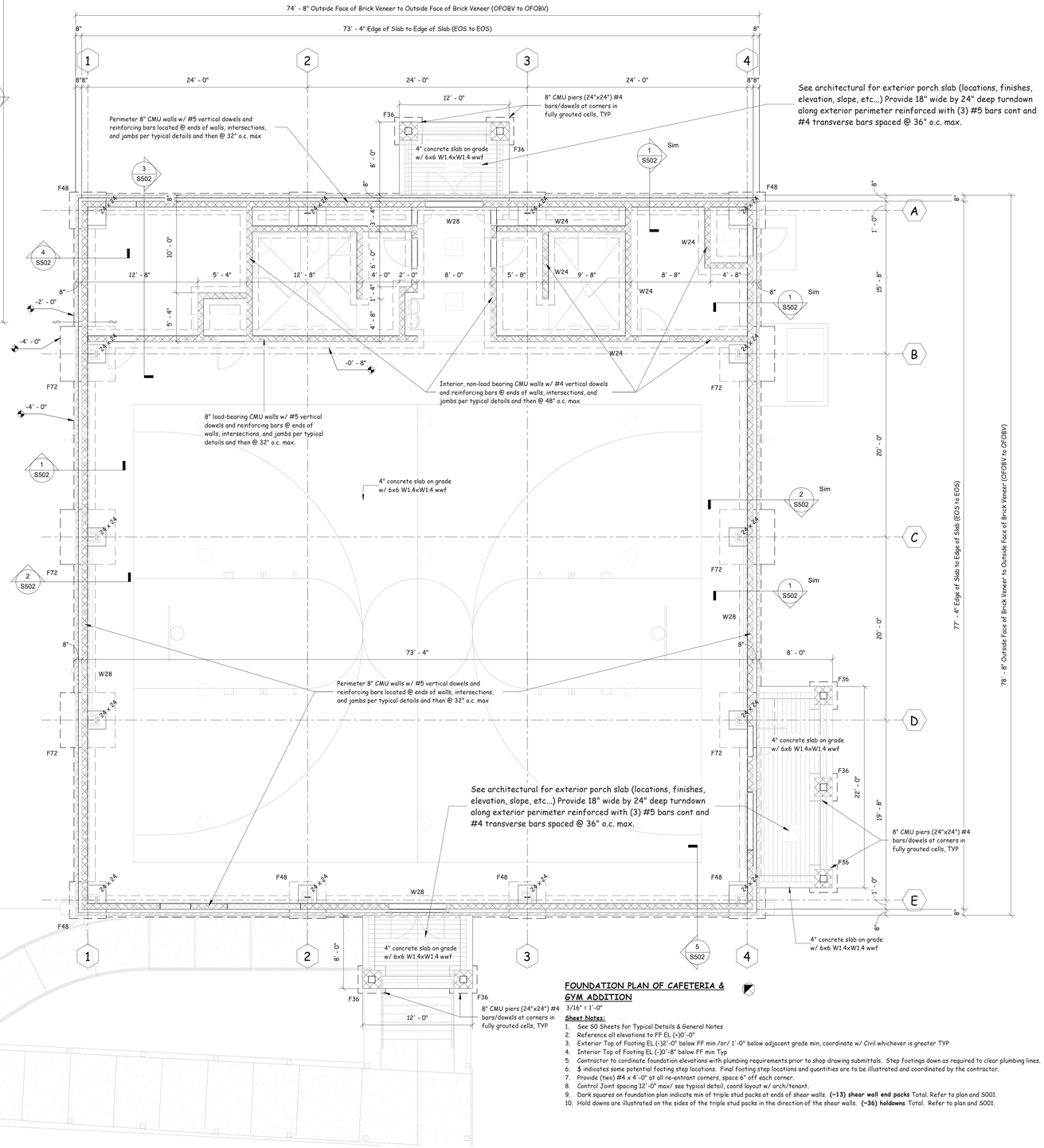
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FOUNDATION PLAN OF CLASSROOM ADDITION

S100

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FOUNDATION PLAN OF CAFETERIA & GYM ADDITION

3/16" = 1'-0"

Sheet Notes:

1. See S0 Sheets for Typical Details & General Notes
2. Reference all elevations to FF EL (+)0'-0"
3. Exterior Top of Footing EL (-)2'-0" below FF min /or/ 1'-0" below adjacent grade min, coordinate w/ Civil whichever is greater TYP
4. Interior Top of Footing EL (-)0'-8" below FF min Typ
5. Contractor to cordinate foundation elevations with plumbing requirements prior to shop drawing submittals. Step footings down as required to clear plumbing lines.
6. $ indicates some potential footing step locations. Final footing step locations and quantities are to be illustrated and coordinated by the contractor.
7. Provide (two) #4 x 4'-0" at all re-entrant corners, space 6" off each corner.
8. Control Joint spacing 12'-0" max/ see typical detail, coord layout w/ arch/tenant.
9. Dark squares on foundation plan indicate min of triple stud packs at ends of shear walls. **(-13) shear wall end packs** Total. Refer to plan and S001.
10. Hold downs are illustrated on the sides of the triple stud packs in the direction of the shear walls. **(-36) holdowns** Total. Refer to plan and S001.

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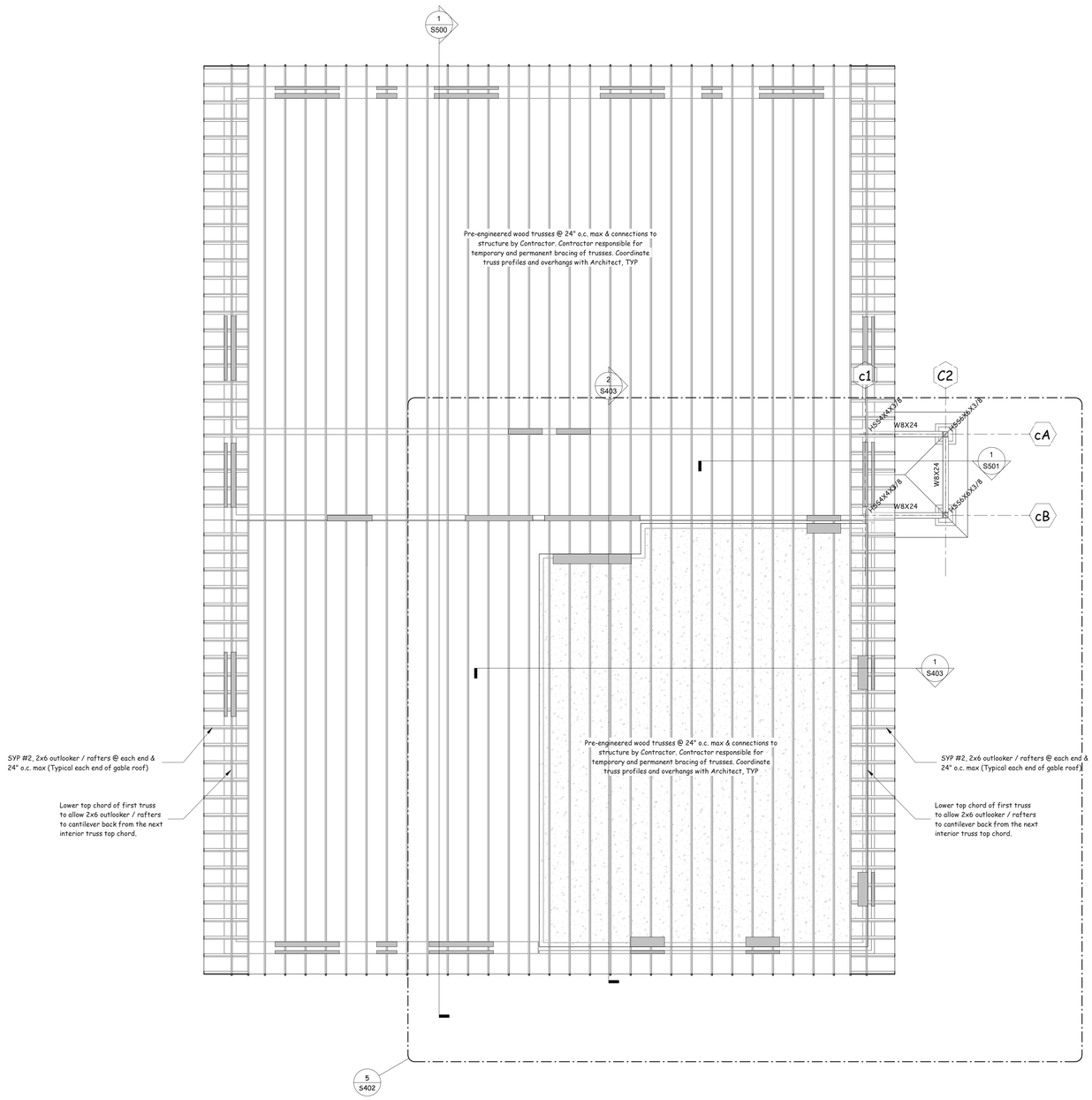
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FOUNDATION PLAN OF CAFETERIA & GYM ADDITION

S101



Existing Structure - See Arch

ROOF FRAMING PLAN OF CLASSROOM ADDITION
3/16" = 1'-0"

Sheet Notes:

1. See S0 sheets for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0"
3. Truss Bearing Elevation (+) 13'-0".
4. Roof construction 3/4" plywood deck with H-clips. Attach with 8d nails @ 6" o.c..
5. Refer to Architectural drawings for all dimensions, slopes, elevations, etc. not illustrated in this plan. Coordinate all final dimensions and elevations with Architectural.
6. Truss loading: Top Chord Live Load = 20 psf for 4/12 slope, Top Chord Dead Load = 10 psf, Bottom Chord Dead Load = 10 psf.
7. Truss requirements: (note that all of these requirements must be included in the truss submittal prior to receiving approval)
   a) Furnish design calculations sealed by a Professional Engineer licensed in the project state for all truss members.
   b) Truss manufacturer shall specify and provide all truss to truss and truss bearing connections, and not contain mention of "by others" in relation to design.
   c) Truss manufacturer shall be responsible for providing and illustrating all temporary and permanent bracing required.
   d) Truss manufacturer shall provide SYP #2, 2x6 studs minimum for top and bottom chords of trusses.

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CHILTON COUNTY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER
1-14-2026
No. 33979
JOSHUA DOSS

CONSTRUCTION DOCUMENTS

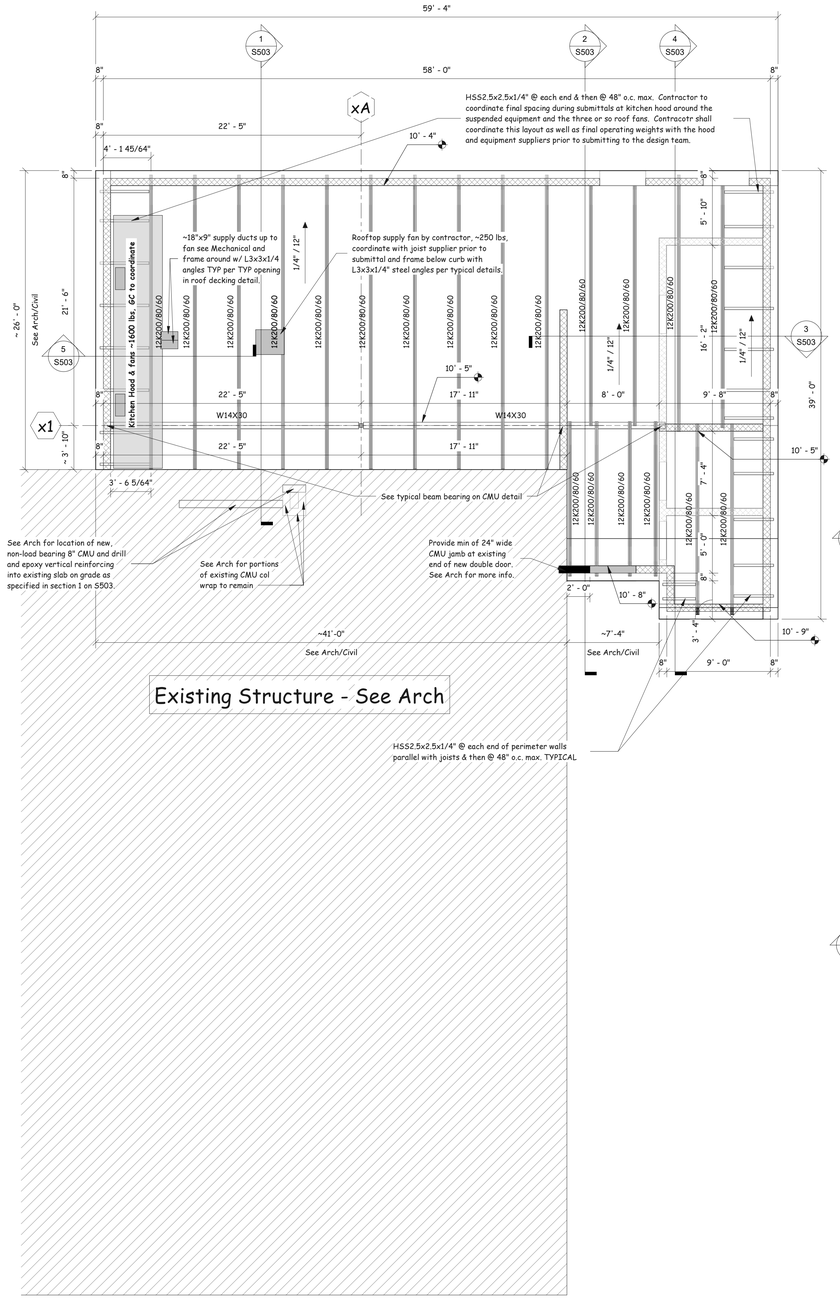
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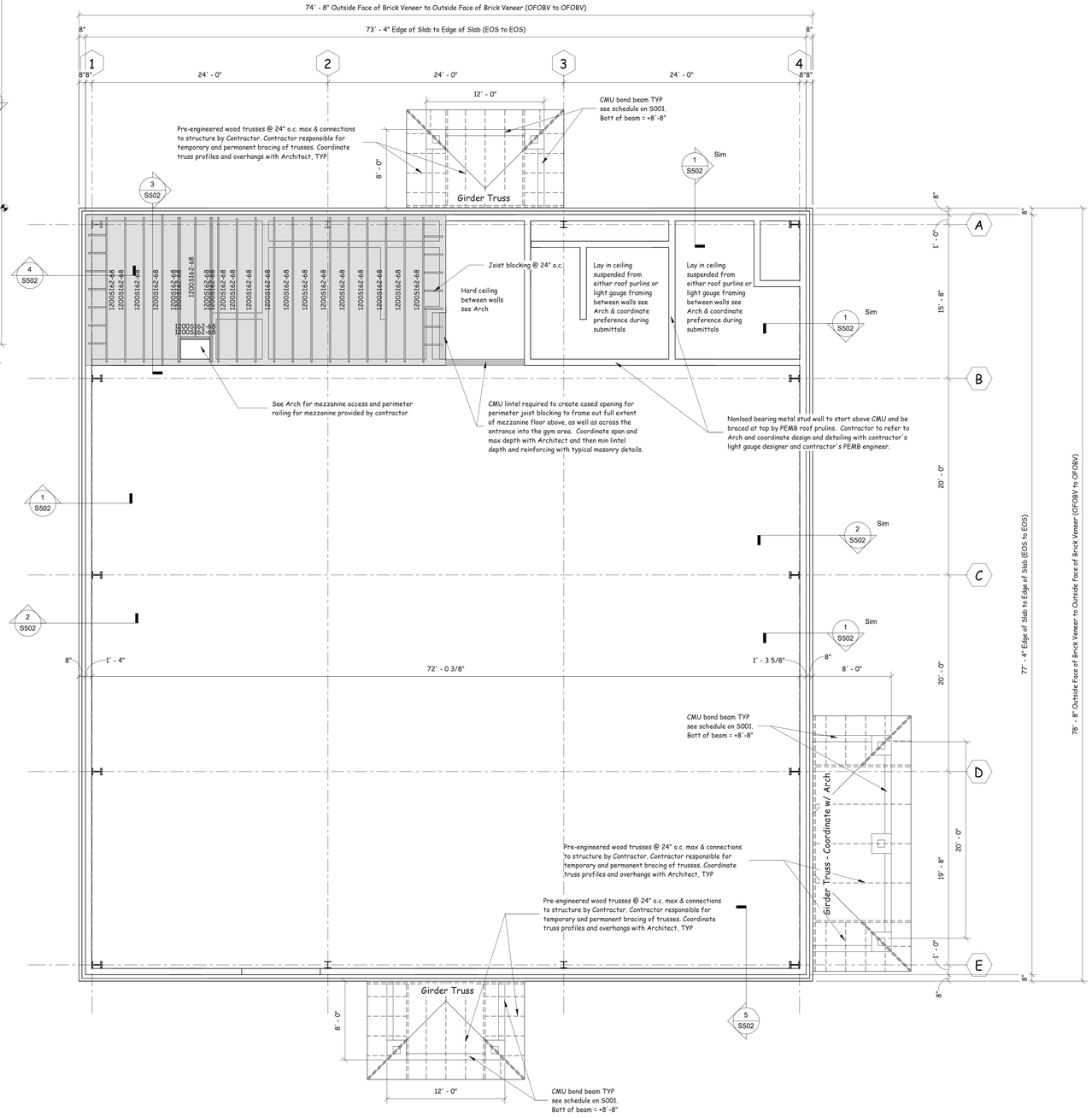
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#	DESC	DATE

ROOF FRAMING PLAN OF CLASSROOM ADDITION

S300





ROOF FRAMING PLAN OF CAFETERIA & GYM

3/16" = 1'-0"

Sheet Notes for Cafeteria:

1. See S0 sheets for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0".
3. See plan for Joist Bearing Elevations; includes Top of Wall (TOW) which = Top of Steel Beam (TOS).
4. Note that joist loading specified on plan does not include mechanical equipment such as kitchen hoods and fans. See plan and sections for approximate location and weights. Contractor responsible to coordinate final location and weights with joist designer prior to submittals. Contractor also responsible for roof top curbs and suspension of such equipment from steel roof joists. See sections for some guidance and then refer to other disciplined drawings for more information.
5. Roof construction 1-1/2" x 22ga. type B painted metal deck. See S0 sheets for attachment details.
6. Contractor to frame around all roof openings with min of L3x3x1/4" steel angles per typical details.
7. Refer to Architectural drawings for all dimensions, slopes, elevations, etc. not illustrated in this plan. Coordinate all final dimensions and elevations with Architectural.

Sheet Notes for Gym:

1. See S0 sheets for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0"
3. Truss Bearing Elevation (+) 8'-8".
4. Roof construction 3/4" plywood deck with H-clips. Attach with 8d nails @ 6" o.c..
5. Refer to Architectural drawings for all dimensions, slopes, elevations, etc. not illustrated in this plan. Coordinate all final dimensions and elevations with Architectural.
6. Truss loading: Top Chord Live Load = 20 psf for 4/12 slope, Top Chord Dead Load = 10 psf, Bottom Chord Dead Load = 10 psf.
7. Truss requirements: (note that all of these requirements must be included in the truss submittal prior to receiving approval)
   a) Furnish design calculations sealed by a Professional Engineer licensed in the project state for all truss members.
   b) Truss manufacturer shall specify and provide all truss to truss and truss bearing connections, and not contain mention of "by others" in relation to design.
   c) Truss manufacturer shall be responsible for providing and illustrating all temporary and permanent bracing required.
   d) Truss manufacturer shall provide SYP #2, 2x6 studs minimum for top and bottom chords of trusses.

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ROOF FRAMING PLAN OF CAFETERIA & GYM

S301

GENERAL NOTES

1. Any omissions or discrepancies between plans, details, and specifications shall be brought to the attention of the Architect or Engineer before bidding.
2. Structural drawings or parts of the structural drawings may not be used as shop drawings without prior written approval.
3. Contractor proposed changes to details must be clearly noted on the first sheet of all shop drawings.
4. Construction shown is stable after the building is complete including interior and exterior finishes. The Contractor is responsible for temporary bracing of the structure during construction.
5. Site visits by Engineer of Record are not considered inspections or special inspections, rather are observations for general compliance with contract documents.
6. Electronic submittal of shop drawings is preferred. Otherwise, contractor shall submit only (3) copies of shop drawings. Barnett/Jones/Wilson, LLC will return (2) copies. Additional copies will be returned unmarked.

DESIGN LOADS - STORM SHELTER

1) Reference codes for loading — ICC 500-2020; FEMA 361; ASCE 7-16; IBC 2021

2) Type of Shelter — Tornado
   a. Building Classification — II
   b. Wind Load
      1) Basic Wind Speed — 250 mph
      2) Importance Factor — 1.0
      3) Wind Exposure — C
      4) Kzt — 1.0
      5) Kd — 1.0
      4) Internal Pressure Coefficient — +/- 0.55
      5) Velocity Pressure (q_s) — 134 psf
   c. Roof Snow Load
      1) Flat Roof Snow Load (P_f) — 5 psf
      2) Snow Exposure (C_e) — 1.0
      3) Importance Factor — 1.0
      4) Thermal Factor (C_t) — 1.0
   d. Seismic Load
      1) Importance Factor — 1.0
      2) Mapped Spectral Response Accelerations
         a) S_S — 0.191
         b) S_1 — 0.082
      3) Site Class — D
      4) Spectral Response Coefficients
         a) S_{DS} — 0.204
         b) S_{D1} — 0.131
      5) Seismic Design Category — B
      6) Base Seismic-Force-Resisting System(s) and Response Modification Factor
         a) Ordinary Reinforced Masonry Shear Walls — 2
         7) Analysis Procedure = Equivalent Lateral Force
   e. Live Load
      1) Roof Load — 120 psf (including collapse of roof trusses above)
      2) Missile Impact of 15 lb Sawn 2x4
         a) Vertical Surfaces — 100 mph
         b) Horizontal Surfaces — 67 mph

   Minimum System and System Used:
   Debris Impact Testing at Texas Tech University - 2003 report. The report summarizes the following test results:
   4" horizontal slab w/ #4 bars @ 12" o.c. withstood (5) shots of 15lb 2x4's at 104-162mph. (S&C 2001 P.T.) --- Shelter roof is 5" concrete slab w/ #4 bars @ 12" o.c. on 9/16"x26ga steel deck.
   8" vertical CMU wall with concrete & #4 rebar in every cell withstood (35+) shots of 15lb 2x4's at greater than 100mph. (Carter 1998) --- Shelter wall is 12" CMU with #5 bars and grout in every cell.

FOR SHELTER,
USE ONLY THE GENERAL NOTES ON THIS SHEET (S400) AND THE TYPICAL DETAILS & PLANS CONTAINED WITHIN THE S400 SERIES SHEETS.

S000 SERIES SHEETS ARE NOT APPLICABLE TO ANY STRUCTURE WITHIN THE SHELTER EXTENTS

FOUNDATIONS

1. Foundation design for this project was based on soils information provided by TTL, Inc. Report #100111095, dated October 31st, 2011.
2. Bearing value of soil: 2500 psf
3. All footings are to bear on undisturbed soil or engineered fill, see report.
4. Provide 8'-0" long top steel reinforcing, same size as bottom steel, at transitions between engineered fill and undisturbed soil locations.
5. Install corner bars at all footing intersections and corners (Provide lap length e.w.)
6. Step all footings where necessary to provide a minimum of 1'-0" below the finish grade or 0'-8" below finish floor.
7. All footing elevations are given to the top of the footings.
8. Footing steps shown on the plans are furnished as a guide for estimating quantities. Final elevations are to be set in the field. Bearing elevations must be approved by a Soils Engineer before any concrete is placed.
9. Coordinate foundation elevations with plumbing and other utility requirements. Step footings as required to clear plumbing and other utility lines.

MASONRY

1. All masonry work to be in accordance with "Building Code Requirements for Concrete Masonry Structures" TMS 602-16 and "Specifications for Masonry Structures" TMS 602.1-16
2. Fill all concrete masonry units with concrete or grout from the top of the footing to the finish floor or to 8" above finish grade whichever is higher.
3. Use truss type joint reinforcement (Blok-Lok BL-34 or better) at 16" on center in all cavity walls where brick is used for one or more of the wythes.
4. Use truss type joint reinforcement (Dur-O-Wall SW DA3100 or better) at 16" o/c. in all other masonry walls.
5. Use Type "M" or Type "S" mortar in accordance with IBC Table 2103.7(1).
6. Minimum compressive strength of concrete masonry f'm = 2000 psi. Submit for review test data on strength of units before starting any masonry work. All CMU to be normal weight CMU.
7. Minimum compressive strength of grout f'c = 2000 psi. Use 3/8" max size aggregate. See Special Inspection Schedule for any testing requirements.
8. Use "Fine" grout for all reinforced piers and reinforced wall in accordance with ASTM C 476.
9. Each grout lift shall not exceed 5'-0" unless cleanouts are provided in the bottom course.
10. Fill cells under all lintels with grout.
11. Provide lintels over all openings through wall. See lintel details for reinforcement.
12. No control joints in perimeter 12" CMU shelter walls.
13. Provide continuous bond beam at 8'-0" o.c. vertical spacing and provide bond beams at top of all CMU walls, TYPICAL
14. Extend all horizontal steel and bond beams thru control joints.
15. Vertical Reinforcement shall extend into the bond beam and have ACI standard 90° degree hook.
16. Unless noted, all bars are to be located at the center of cell. Where bars are specified at each face, provide 3/4" clear space between reinforcement and CMU face shell.
17. Anchor bolt into grouted cell locations only, unless noted otherwise.
18. Non Load Bearing Interior CMU walls shall be reinforced with minimum #4 bars in fully grouted cells @ 4'-0" o.c. Provide Bond Beam at top of wall. Brace top of wall to roof structure with rigid bracing @ 8'-0" o.c.. Alternate each direction.
19. Unless noted otherwise, non-load bearing CMU walls are to be supportbed by W24 (2'-0" x 1'-0") strip footings reinforced with (3) #4 bars cont. and #4 bars @ 24" o.c. transverse. Footing to be 8" below finished floor.

STEEL JOIST AND JOIST GIRDERS

1. All steel joists shall conform to the standard specifications for the joist noted, as adopted by the Steel Joist Institute.
2. Joist designation Joist depth/Series/Total Load/Live Load/Net Uplift.
3. Unless otherwise noted design all K Series Joists for a net uplift load of 233 plf and all joist substitutes for a net uplift of 650 plf. See plan and sections.
4. LH Series joists shall be welded to bearing plates or steel members with two 1/4" fillet welds 3" long.
5. All joist bearing plates are to be set 1/4" above the top of concrete masonry units.

TESTING

1. All testing is to be completed under the supervision of the structural engineer.
2. The owner will provide testing and special inspection under a separate contract. See this sheet or project specifications for schedule of special inspections.

STRUCTURAL STEEL

1. All detailing, fabricating, and erection of structural steel shall be in accordance with the AISC 360-16 "Specifications for Structural Steel Buildings". All reactions shown are ASD loads.
2. All connections are to be detailed as Type 2 "simple frame connections".
3. Headed Studs shall be Type B Shear Connectors.
4. Shop and field connections shall be welded with E-70XX electrodes or bolted with 3/4" dia. A-325N or A-325X bolts, unless noted.
5. Use 3/4" cap and bearing plates, unless noted.
6. Use 3/4" dia x 1'-0" long ASTM F1554 Grade 36 anchor bolts, unless noted. In lieu of cast bolts, 3/4"x1'-0" long HAS rods epoxied with Hilti HVA epoxy, or equal, may be used with prior approval.
7. Provide design calculations for connections other than standard frame or seat connections.
8. All steel exposed to weather shall be hot dipped galvanized per ASTM A123.
9. Stairs, handrails, guardrails and other miscellaneous steel items not specifically detailed on these drawings are the responsibility of the contractor. Contractor must furnish design calculations sealed by a Professional Engineer where required by jurisdiction.

REINFORCING STEEL AND CONCRETE

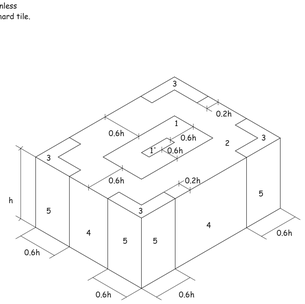
1. All concrete work is to be in accordance with the "Building Code Requirements for Reinforced Concrete" (ACI 318-19).
2. All detailing is to be in accordance with "ACI Detailing Manual" MNL-66
3. Concrete Properties: See Schedule
   a. All concrete must obtain 7 day strength of 70% of design strength.
   b. Concrete mixes may use up to 25% of cementious weight as fly ash.
   c. Concrete mixes may use water reducers, accelerators or retarders with prior approval.
4. All steel reinforcement shall be of deformed bars of billet steel conforming to ASTM A615, Grade 60 in all concrete.
5. Welded wire fabric shall be ASTM A185 and shall lap 2 cross wires or 6" whichever is greater on all sides. All laps shall be wired together.
6. Provide (2) #4 bars x 4'-0" at re-entrant corner locations Typical. Locate 3" away from corner and space 1'-0" apart.
7. All slabs on grade are 4", unless noted. Slabs are to be placed on 10 Mil, PVC vapor barrier over 4" of porous fill. Reinforce slabs with 6x6 W1.4 x W1.4 WWF placed 1" from top of slab. Unless otherwise noted slabs shall have joints placed at 12'-0" on centers each way. Joints may be control joints or construction joints. See Architectural Plans for floor slopes and recesses for hard tile.
8. Minimum concrete cover for reinforcement:
   a) Footings — 3"
   b) Slabs on grade — 3"
   c) Piers — 1½"
   d) Beams — 1½"
9. Provide corner bars at all wall and footing intersections.
11. Use 3/4" chamfer for all exposed corners unless noted.
12. Slabs on grade should be supported on compacted dense grade base material (ALDOT 825A, 8910, or equivalent) unless otherwise noted in construction documents or geothechnical report.

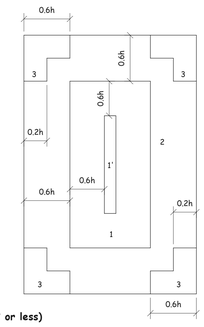
CONCRETE SCHEDULE

Concrete Use	Design Strength	Max W/C Ratio	Slump Limits	Entrained Air Range	Weight	Notes
Columns & Piers	4000 psi	n/a	6" to 8"	3% to 5%	150 pcf	Use HRWR
Exterior Slabs on Grade	4000 psi	n/a	6" to 8"	3% to 5%	150 pcf	Use HRWR
Footings	3000 psi	n/a	3" to 5"	3% to 5%	150 pcf	
Interior NW Slabs on Metal Deck	4000 psi	n/a	6" to 8"	no air	150 pcf	Use HRWR
Interior Slabs on Grade	4000 psi	n/a	6" to 8"	no air	150 pcf	Use HRWR

EPOXY AND MECHANICAL ANCHORS

1. All anchors shall be installed per manufacturer's instructions.
2. Use of post-installed epoxy or mechanical anchors not detailed on these drawings must be preapproved by the engineer of record before use.
3. All epoxy to be Hilti HY 200, Simpson SET 3G, or approved equal. Typical embedment shall be 12 X Dia.
4. All mechanical anchors to be Simpson TETEN HD Screw Anchors or approved equal. Typical embedment shall be 8 X Dia.
5. All Power Actuated Fasteners (PAF) to be 0.15" HILTI X-U with 1 1/4" embedment. PAF shall completely penetrate fastened steel.





Flat/Hip/Gable (7° or less)

Components & Cladding Wind Loads - Flat Roofs - Shelter												
Area	Zone 1 (+)	Zone 1 (-)	Zone 1' (+)	Zone 1' (-)	Zone 2 (+)	Zone 2 (-)	Zone 3 (+)	Zone 3 (-)	Zone 4 (+)	Zone 4 (-)	Zone 5 (+)	Zone 5 (-)
10 SF	113.7 psf	-301.0 psf	113.7 psf	-194.0 psf	113.7 psf	-381.3 psf	113.7 psf	-501.7 psf	194.0 psf	-206.0 psf	194.0 psf	-242.1 psf
20 SF	109.7 psf	-284.4 psf	109.7 psf	-194.0 psf	109.7 psf	-359.9 psf	109.7 psf	-459.0 psf	187.6 psf	-199.6 psf	187.6 psf	-229.3 psf
50 SF	104.4 psf	-262.5 psf	104.4 psf	-194.0 psf	104.4 psf	-331.7 psf	104.4 psf	-402.6 psf	179.1 psf	-191.2 psf	179.1 psf	-212.4 psf
100 SF	100.3 psf	-245.9 psf	100.3 psf	-194.0 psf	100.3 psf	-310.4 psf	100.3 psf	-359.9 psf	172.7 psf	-184.8 psf	172.7 psf	-199.6 psf
500 SF	100.3 psf	-207.4 psf	100.3 psf	-207.4 psf	100.3 psf	-260.9 psf	100.3 psf	-260.9 psf	157.9 psf	-169.9 psf	157.9 psf	-169.9 psf

SECTION 014200 - QUALITY ASSURANCE PLAN

1. MAIN WIND-FORCE RESISTING SYSTEMS AND WIND-RESISTING COMPONENTS

   Main Wind-Force Resisting Systems: CMU shear walls

   Wind-Resisting Components:

   Concrete — Concrete roof system is held down to the supporting steel joists with headed studs welded to the joists.

   Shelter Roof System — Concrete slab on metal deck and bar joists which are attached to 16" deep bond beams by #5 dowels at 8" o.c. max and a continuous L5x5x5/16 seat angle attached to bond beam with headed studs at 8" o.c. max. Joists are designed for uplift and gravity loads.

   16" deep bond beam — Bond beam attached to wall by vertical reinforcing bars in each cell with ACI standard 90 deg hooks.

   Walls — All 12" CMU walls are fully grouted, storm rated walls attached to footings with (1) #5 dowel at 8" o.c. centered in each cell. All interior corridor walls are comprised of 12" CMU walls attached to footings with #5 dowels @ 8" o.c. max. Interior non-load bearing CMU walls are non-storm rated and attached to footings by #4 dowels @ 48" o.c at the center of the cell.

   Footings — All load bearing CMU walls are storm rated with foundations designed to resist uplift forces. All non-load bearing interior CMU walls are non-storm rated with foundations not designed to resist uplift forces.

   Small Openings & Sleeves — Core drilling in the shelter is to be avoided. General Contractor shall prepare and maintain a sleeve sign off card that is to be signed by all MEP subcontractors and also be coordinated with both the design team and concrete subcontractor, prior to pouring of any concrete.

   Large Openings & Lintels — General Contractor shall refer to the shelter lintel schedule and coordinate all opening sizes and locations with the design team, prior to construction.

2. SPECIAL INSPECTIONS AND TESTING REQUIRED IN ACCORDANCE WITH SECTION 106.2
   See Specification Section 01410-Structural Tests and Special Inspections

3. TYPE AND FREQUENCY OF TESTING REQUIRED
   See Specification Section 014100-Structural Tests and Special Inspections, Part 4.2

4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS REQUIRED
   See Specification Section 014100-Structural Tests and Special Inspections, Part 4.2

5. STRUCTURAL OBSERVATIONS TO BE PERFORMED IN ACCORDANCE WITH SECTION 106.4
   Prior to pouring foundations
   Prior to pouring roof slab
   As needed to address questions that arise during construction

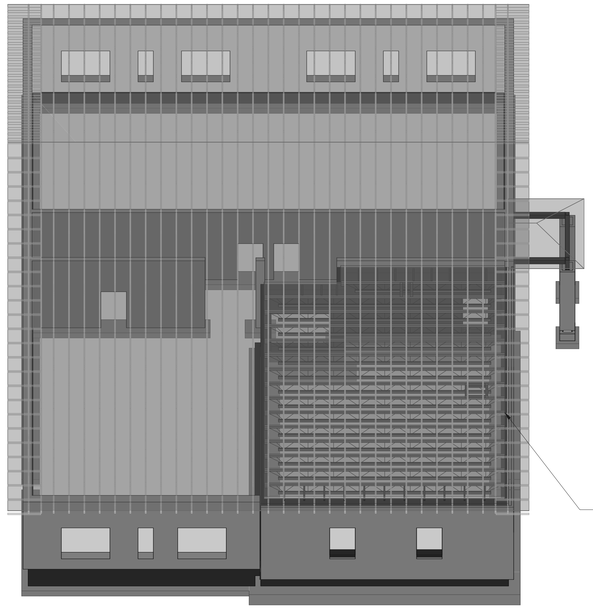
6. REQUIRED DISTRIBUTION, TYPE AND FREQUENCY OF REPORTS OF TESTS, INSPECTIONS AND STRUCTURAL OBSERVATIONS
   Reports for tests, inspectors and observers shall be made after each test or site visit and sent to:
   Chilton County Board of Education (Owner)
   Barnett Jones Wilson (Structural Engineer)
   Ward Scott Morris Architecture (Project Architect)

   Refer to Section 1.6 in Specification Section 014100 for submittal requirements.

7. CONTRACTOR RESPONSIBILITY:
   Each contractor responsible for the construction of a main wind-force resisting system element or any component listed in the quality assurance plan shall submit a written statement of responsibility to the authority having jurisdiction, the responsible design professional, and the owner prior to commencement of work on the system or component.

   The contractor's statement of responsibility shall contain:
   A. Acknowledgement of awareness of the special requirements contained in the quality assurance plan.
   B. Acknowledgement that control will be exercised to obtain compliance with the construction documents.
   C. Procedures for exercising control within the contractor's organization, the method and frequency of reporting, and the distribution of reports.
   D. Identification and qualifications of the person(s) exercising control and their position(s) in the organization.
      exception: prefabricated or panelized tornado shelter components which have been inspected and labeled by an approved agency meeting the requirements of the applicable building code.

8. NOTES ON PENETRATIONS THROUGH SHELTER PERIMETER WALLS AND ROOF:
   1. All holes or openings through the shelter perimeter walls or roof greater than 3.5 square inches or 2"ø must be protected per ICC 500-2020. Holes through walls that occur at least 1'-0" below adjacent grade do not require protection.
   2. See architectural, mechanical, plumbing, and electrical drawings for locations of all shelter penetrations.
   3. See plumbing drawings for protection devices required for pipe penetrations exceeding 2"ø.
   4. See mechanical drawings for protection devices required for wall and roof openings. GC coordinate with opening device supplier for required steel and anchorage.
   5. All holes through shelter perimeter walls or roofs for pipes or conduit to be sleeved. Any holes that must be core drilled shall be done without cutting through reinforcing bars. Provide 8" minimum clear spacing between holes.
   6. Rated opening protection assemblies, such as doors and louvers, must be installed as specified by the assembly supplier. General contractor to coordinate with assembly supplier for any additional steel or anchors that must be provided for the specified attachments.



Shelter Extents are limited to this corner of the classroom addition, see plans and sections.

Working - Shelter Coordination

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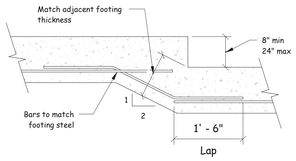
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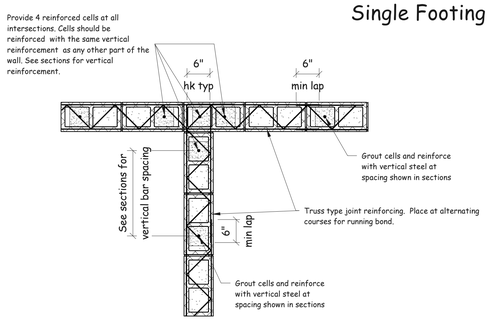
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SHELTER GENERAL NOTES

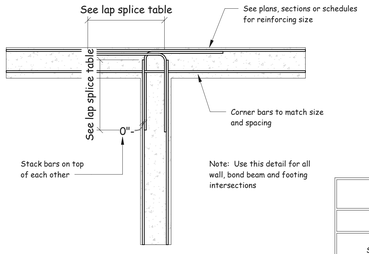
S400



Single Footing Step



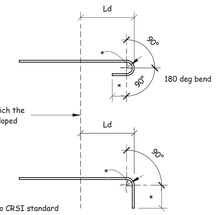
Typical Joint Reinforcing at Intersection

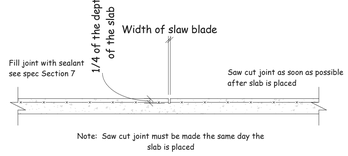


Typical Bond Beam & Footing Reinforcing at Intersections

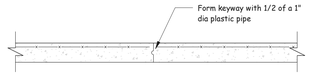
Reinforcing Steel Lap Splice & Development Length for Concrete Masonry				
	Bar in center of wall			Bar in each face of wall
Bar Size	6" CMU	8" CMU	12" CMU	
# 3	16"	16"	16"	16"
# 4	21"	21"	21"	30"
# 5	32"	26"	26"	46"
# 6	61"	43"	40"	85"
# 7	NA	60"	46"	115"
# 8	NA	NA	61"	NA"

Notes:
1. Lengths are for vertical splices in wall.
2. Bar length for center of wall based on f'_m of 1500psi or greater.
3. Bar length for face of wall are based on f'_m of 2000psi or greater.
4. Refer to General Notes and details for masonry strength.

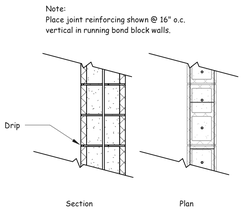




Typical Control Joint

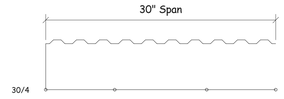


Typical Construction Joint

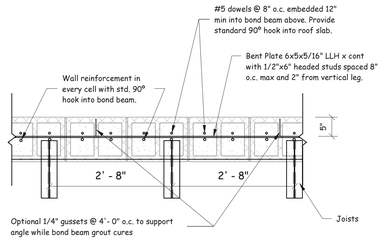


Exterior Masonry Wall Details

Metal Deck Attachment Schedule			
Area	Deck	Support Fastener/Pattern	Sidelap Fastener/Pattern
Shelter Roof	0.6C x 26ga	weld washer 30/4	3 - #10 TEK screws



0.6C Non-composite Deck

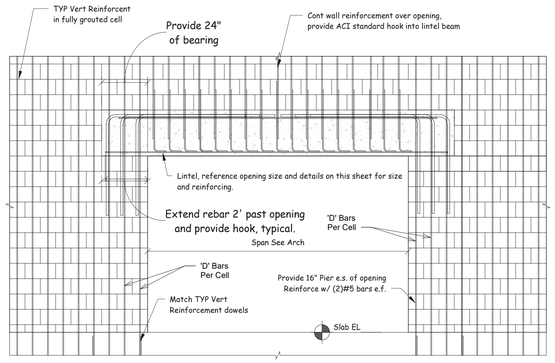


Continuous Bent Plate For Joist Bearing & to serve as form for inisde face of wall

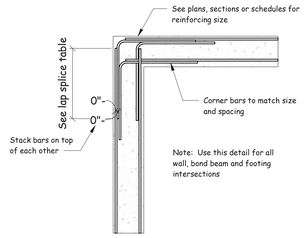
Note:
1. Bond beam above not shown in order to illustrate bar locations relative to continuous embedded angle or embed plates.
2. Wall reinforcement will hook into the bottom of the bond beam.
3. Dowels will hook into the roof slab perpendicular to wall and down into bond beam.
4. Optional 1/4" gussests along rear face of continuous bent plate to hold it in place while bond beam cures.
5. See Shelter Sections for more details.

Typical Continuous Perimeter Bearing/Form Angle Detail

Brick Lintel Schedule		
Span	Lintel Size	Bearing Each End
<= 4'-0"	L 3 1/2"x 3 1/2"x 5/16"	8"
<= 6'-0"	L 4"x3 1/2"x5/16"	8"
<= 8'-0"	L 5"x3 1/2"x5/16"	8"
<= 10'-0"	L 6"x3 1/2"x5/16"	8"
<= 12'-0"	L 7"x4"x3/8"	16"
<= 14'-0"	L 8"x4"x7/16"	16"



Typical Joint Reinforcing at Corner

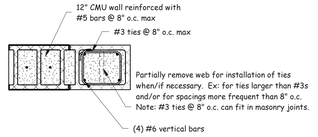


Typical Bond Beam & Footing Reinforcing at Corners

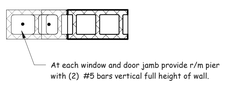
ALTERNATE LINTEL ELEVATION IF OPENING GEOMETRY IS NOT ACCEPTABLE FOR DEEP BEAMS

Typical Storm Rated Shelter Lintel Elevation ALL CELLS FULLY GROUTED

Note: All 12" CMU walls are storm rated.
Any other interior 8" CMU walls within shelter extents are non-storm rated.



Typical Masonry Jamb In Storm Rated walls for opening widths greater than 7'-0"

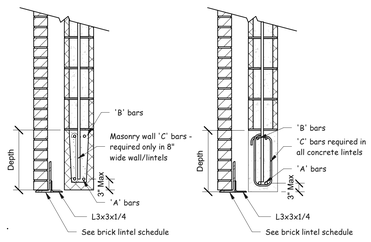


Typical Masonry Jamb

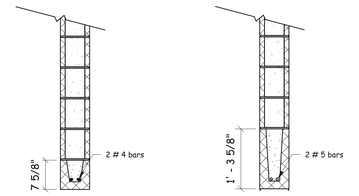
ALTERNATE LINTEL SCHEDULE IF OPENING GEOMETRY IS NOT ACCEPTABLE FOR DEEP BEAMS

Span	Material	Depth	'A' Bars	'B' Bars	'C' Bars	'D' Bars
9'- 0"	Concrete	16"	(3) #7	(3) #7	#4s @ 8" o.c.	(2) #5
8'- 4"	Masonry	32"	(2) #5	(2) #5	#4s @ 12" o.c.	(2) #5
4'- 0"	Masonry	24"	(2) #5	(2) #5	#4s @ 18" o.c.	(1) #5
2'- 8"	Masonry	16"	(2) #5	(2) #5	#4s @ 18" o.c.	(1) #5

Provide 24" of bearing on each end. D bars are required jamb reinforcing bars per cell. See elevation for illustration.

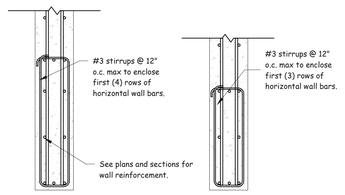


Masonry Shelter Lintel Concrete Shelter Lintel



CMU Lintels in 8" block with Spans Less than 4'-0" CMU Lintels in 8" block with Spans Less than or equal to 8'-0"

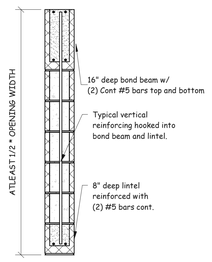
Non-Load Bearing Lintel Details

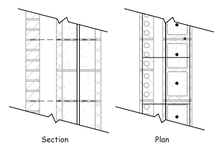


Spans 11'- 0" and Less Spans 8'- 0" and Less

Typical Concrete Beam Over Openings Where Concrete Height of Wall & Lintel Extends Higher Than Required For Lintel

TYPICAL LINTEL SECTION DEEP BEAMS

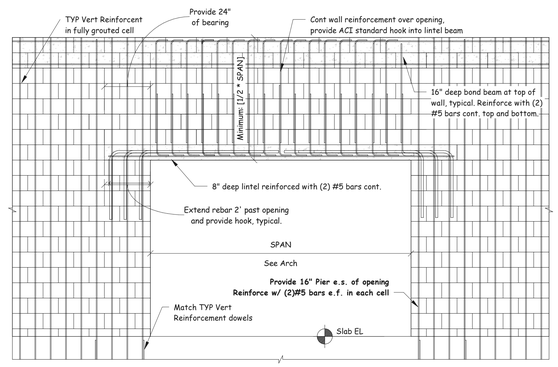




Exterior Masonry Wall Details

TYPICAL LINTEL ELEVATION - DEEP BEAMS

OPENINGS IN EXTERIOR WALLS CAN BE REINFORCED AS DEEP BEAMS IF THE HEIGHT OF WALL ABOVE THE OPENING IS AT LEAST TWICE AS HIGH AS THE SPAN IS LONG. IF NOT, SEE ALTERNATE DETAILS BELOW.



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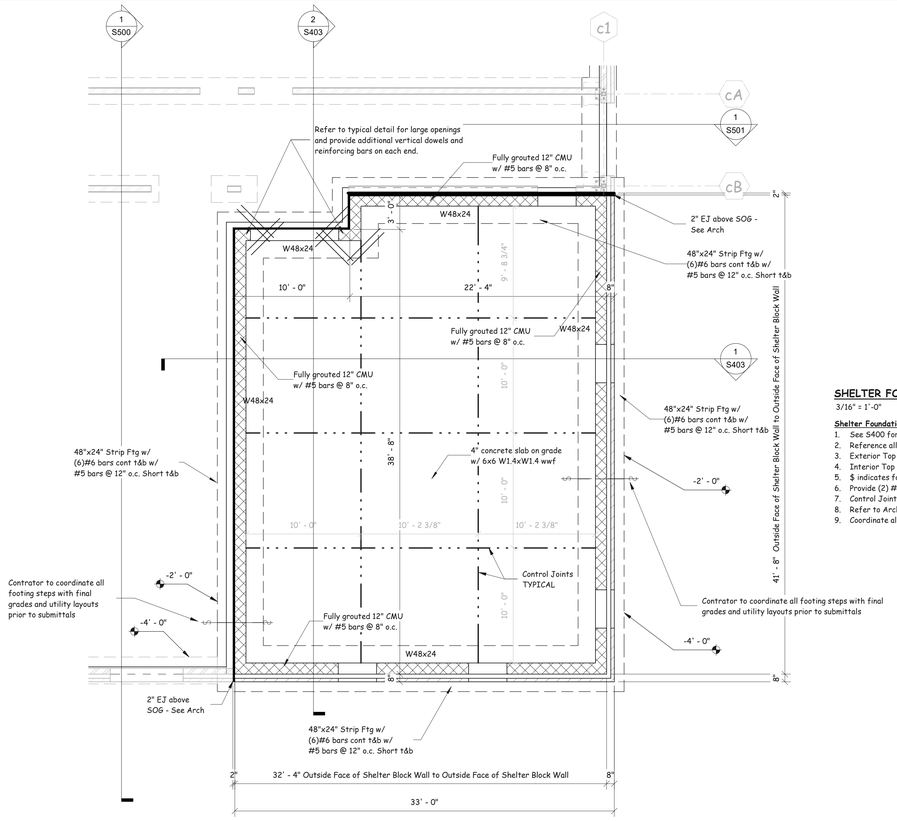
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SHELTER TYPICAL DETAILS

S401

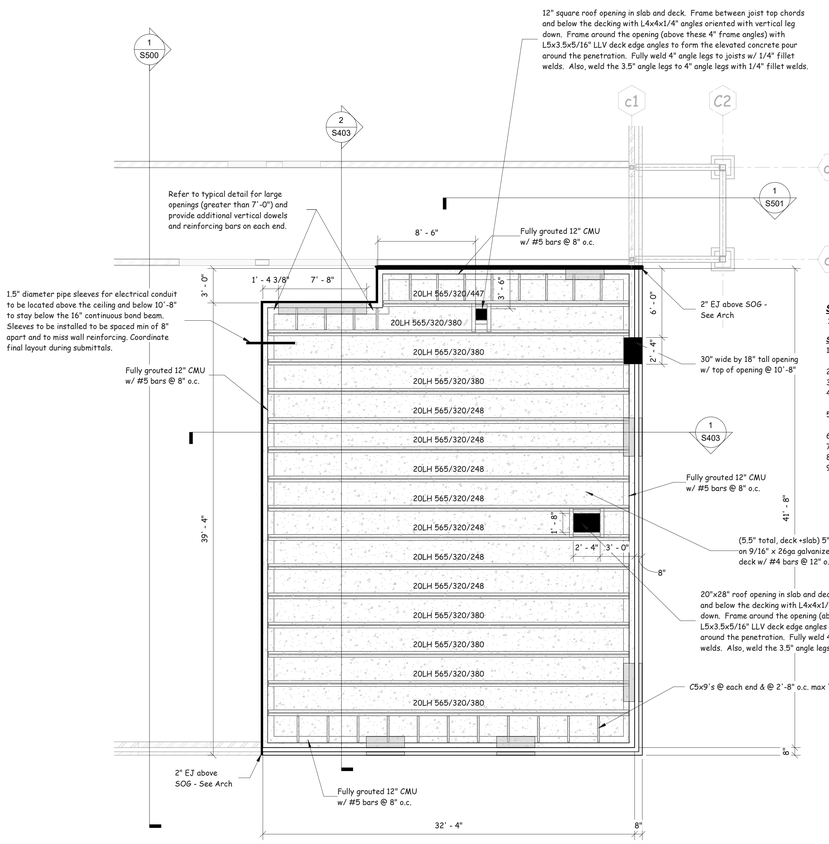


SHELTER FOUNDATION PLAN

3/16" = 1'-0"

Shelter Foundation Plan Notes:

1. See S400 for Typical Shelter Details & General Shelter Notes & S0 Sheets for Typical Non-Shelter Details & General Non-Shelter Notes
2. Reference all elevations to FF EL (+)0'-0"
3. Exterior Top of Footing EL (-)2' -0" below FF min OR 1'-0" below adjacent grade min OR deeper to step below utilities - Contractor to coord w/ MEP & Civil
4. Interior Top of Footing EL (-)0'-8" below FF TYP (UNO or when required to step down to get below utilities)
5. $ indicates footing step locations
6. Provide (2) #4 x 4'-0" at all re-entrant corners, space 6" off each corner. See general notes for more information.
7. Control Joint spacing 12'-0" max. See typical detail, coordinate layout w/ Arch/Owner
8. Refer to Arch drawings for all dimensions, slopes, elevations, etc. not illustrated on this plan
9. Coordinate all final dimensions with Arch prior to construction



SHELTER ROOF SLAB FRAMING PLAN

3/16" = 1'-0"

Shelter Roof Slab Framing Notes:

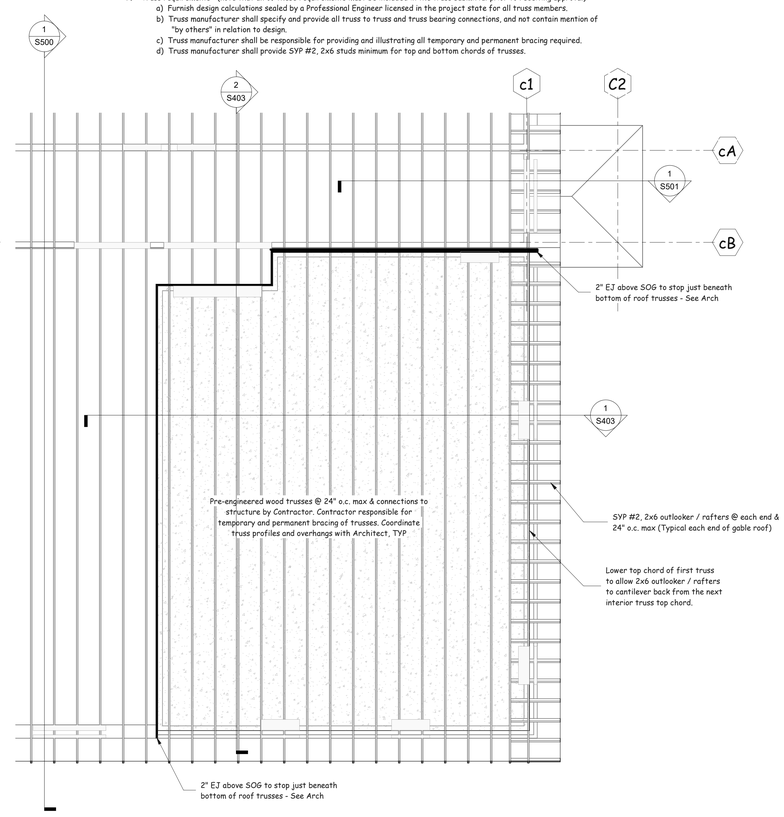
1. See S400 for Typical Shelter Details & General Shelter Notes & S000 Sheets for Typical Non-Shelter Details & General Non-Shelter Notes
2. Reference all elevations to FF EL (+)0'-0"
3. See plan for Joist Bearing Elevations = Top of CMU + 12'-0" UNO
4. Roof construction: 5.5" total, consisting of 5" of normalweight concrete slab reinforced mid-depth w/ #4 bars @ 12" o.c. e.w. on 9/16" x 26 ga. painted metal deck. See S400 sheets for attachment details and general notes
5. Refer to Arch drawings for all dimensions, slopes, elevations, etc. not illustrated on this plan. Coordinate all final dimensions and elevations with Arch
6. Refer to Mech drawings for information on mechanical openings in shelter
7. Provide 2" expansion joint between shelter and any adjacent structural element
8. All "LH" and "K" joists shall have a 5" joist seat
9. Joist spacings differ bay to bay. See Plan for specific spacings

ROOF TRUSS FRAMING PLAN OVER SHELTER

3/16" = 1'-0"

Sheet Notes:

1. See S0 sheets for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0"
3. Truss Bearing Elevation (+) 13'-0".
4. Roof construction 3/4" plywood deck with H-clips. Attach with 8d nails @ 6" o.c..
5. Refer to Architectural drawings for all dimensions, slopes, elevations, etc. not illustrated in this plan. Coordinate all final dimensions and elevations with Architectural.
6. Truss loading: Top Chord Live Load = 20 psf for 4/12 slope, Top Chord Dead Load = 10 psf, Bottom Chord Dead Load = 10 psf.
7. Truss requirements: (note that all of these requirements must be included in the truss submittal prior to receiving approval)
   a) Furnish design calculations sealed by a Professional Engineer licensed in the project state for all truss members.
   b) Truss manufacturer shall specify and provide all truss to truss and truss bearing connections, and not contain mention of "by others" in relation to design.
   c) Truss manufacturer shall be responsible for providing and illustrating all temporary and permanent bracing required.
   d) Truss manufacturer shall provide SYP #2, 2x6 studs minimum for top and bottom chords of trusses.



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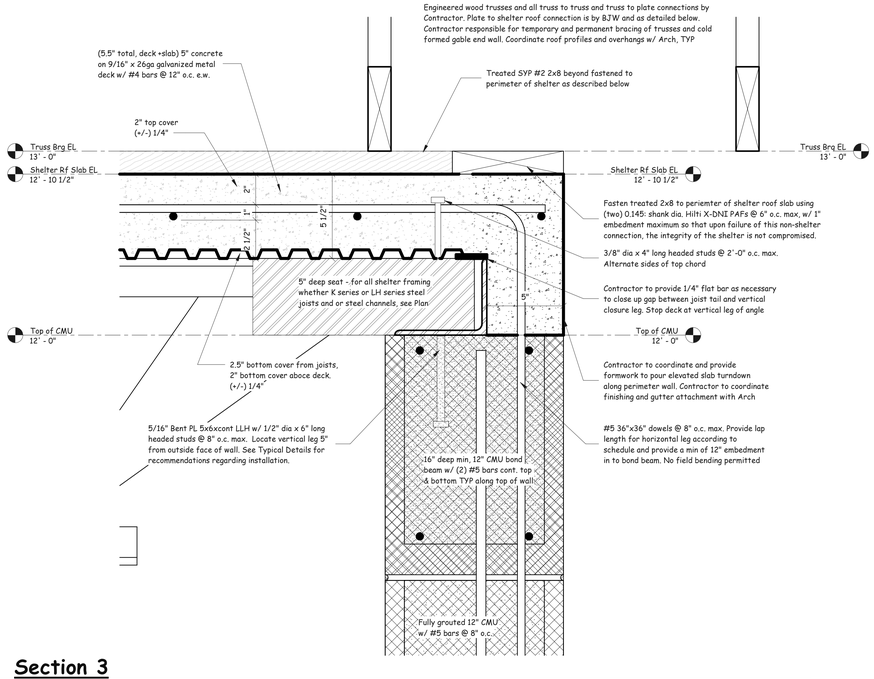
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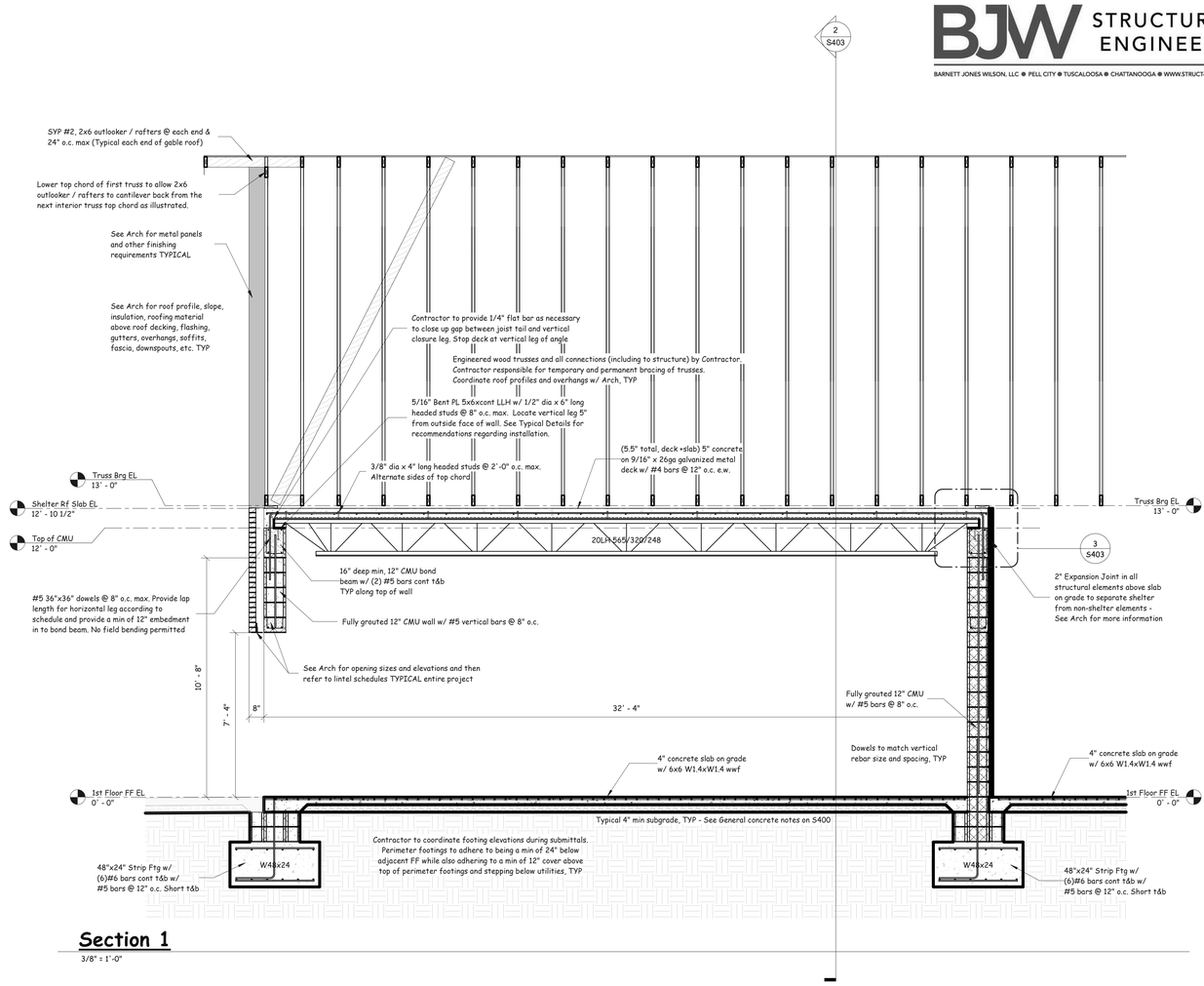
SHELTER PLANS

S402



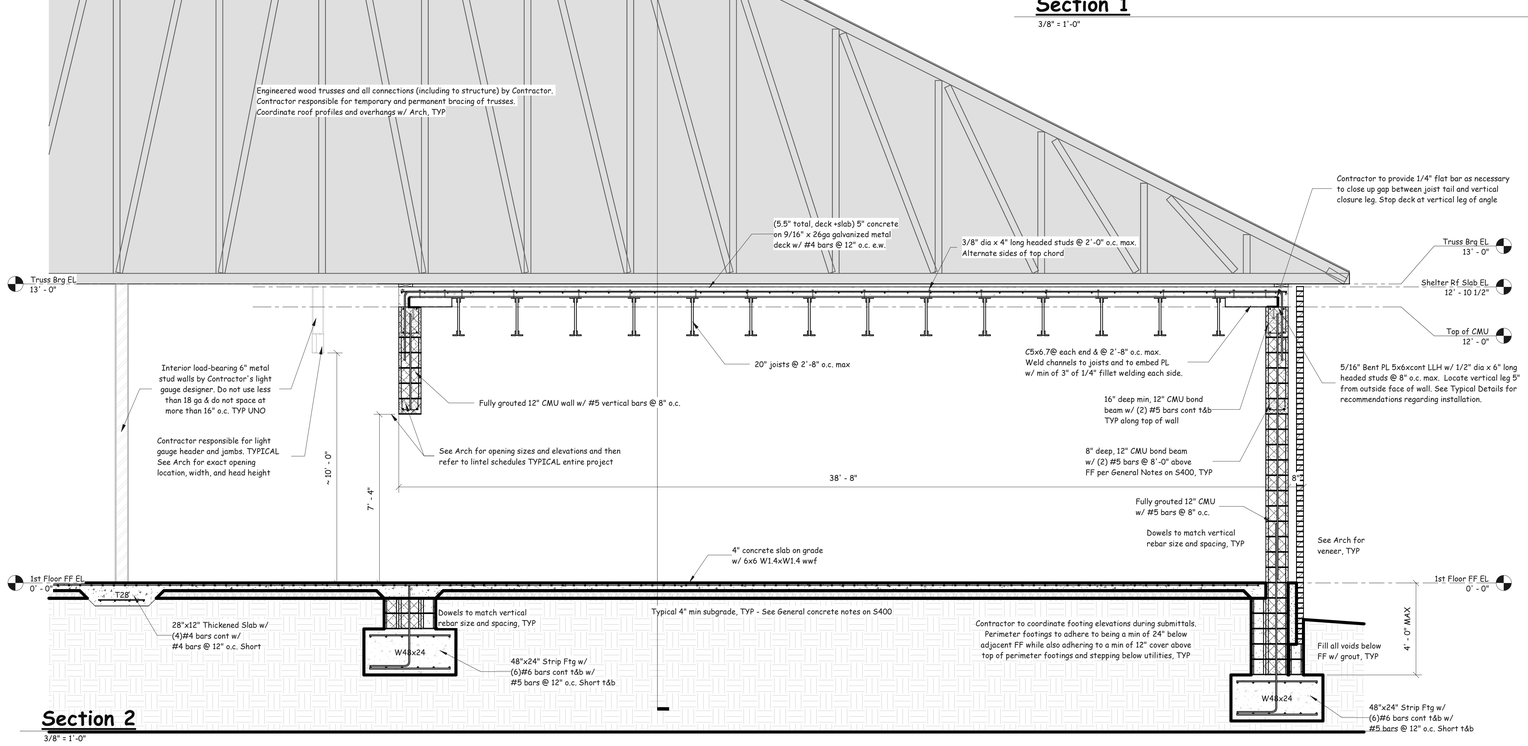
Section 3

3" = 1'-0"



Section 1

3/8" = 1'-0"



Section 2

3/8" = 1'-0"

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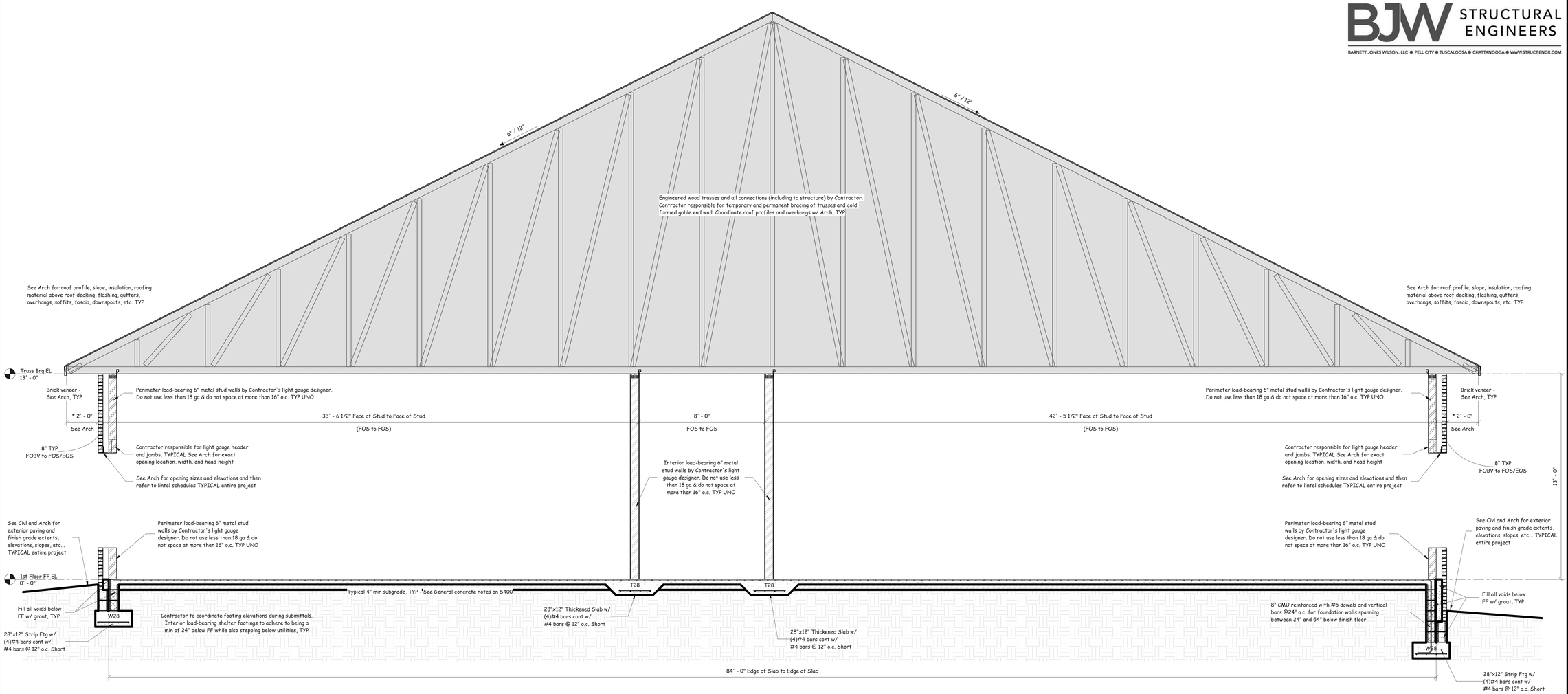
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SHELTER SECTIONS

S403



Section 1

3/8" = 1'-0"

TYPICAL NOTES FOR ENTIRE PROJECT:

Light gauge metal studs, roof rafters, heel blocking, roof trusses, and fasica:
Design and detailing of light gauge metal studs and roof rafters, their bracing, and connections to the structure is to be performed by the contractor's light gauge desisn engineer. Minimum sizes and maximum spacing of light gauge metal framing is indicated in the construction documents.
Pre-engineered wood trusses (and/or combination of stick framed build up roof framing over existing framing) & all connections to structure by Contractor. Maximum spacing of trusses is 24" o.c. Contractor responsible for temporary and permanent bracing of trusses and framing. Coordinate roof profiles and overhangs with Architect. TYPICAL
Contractor responsible to provide continuous heel blocking as well as blocking and fascia framing between truss top chord overhangs to support gutters, fascia cornice, etc... Coordinate requirements with Arch. TYPICAL
Any framing required for exterior soffits/fascia and their support is the repsonsiblity of the contractor. Contractor to refer to Architect for details and additional information. TYPICAL

Sheathing Requirements of Load Bearing Stud Walls
Any perimeter load bearing walls (or the architectural projected gable walls) shall be sheathed along the exterior with 5/8" densglass with # 6 wafer head self drilling screws @ 4" along blocked panel edges and then @ 4" along studs behind panel interior. These perimeter walls shall be sheathed along the interior with 5/8" gypsum panels fastened with # 6 wafer head self drilling screw @ 4" along blocked panel edges and then @ 4" along studs behind panel interior. See plan for strap X-bracing locations and refer to typical details on S003 for detailing.

Load Bearing Perimeter Stud Walls.
Typical perimeter stud walls are to be 6" deep, no less than 18ga, and to be spaced no more than 16" on center. Final design/detailing of light gauge studs and light gauge rafter framing, headers, jambs, and all connections to the structure is to be performed by the contractor's light gauge designer/detailer and submitted for review/approval during shop drawings. Refer to general notes & Architect for more information.

Deflection Tracks required for any non-load bearing stud walls:
Deflection tracks are required between sud walls and steel beams above. Defelction tracks shall be able to provide a minimum movement of the greater of 1" or L/240 of the steel beam span above. L= span of the beam (above the wall) in units of inches.

Rebar lap lengths:
Contractor responsible to ensure all procured/installed rebar is long enough to achieve min lap lengths required per schedules on S0 sheets.

Roofs:
See Arch & other disciplines for roofing related detailing and specifications reagarding such items as insulation, roofing, profiles, slopes, flashing, soffits, drains, gutters, overflows, downspouts, etc... Contractor to coordinate all truss profiles and all truss and rafter extensions and overhangs with Architect. TYPICAL

Finishing requirements of steel decking:
See Arch for all finishing requirements. Unless otherwise noted by Arch, bidder to assume that roof deck is painted standard primer grey.

Steel beam connections:
Refer to plan notes and typical details for beam to beam, beam to column, and beam to wall/empbed plates.

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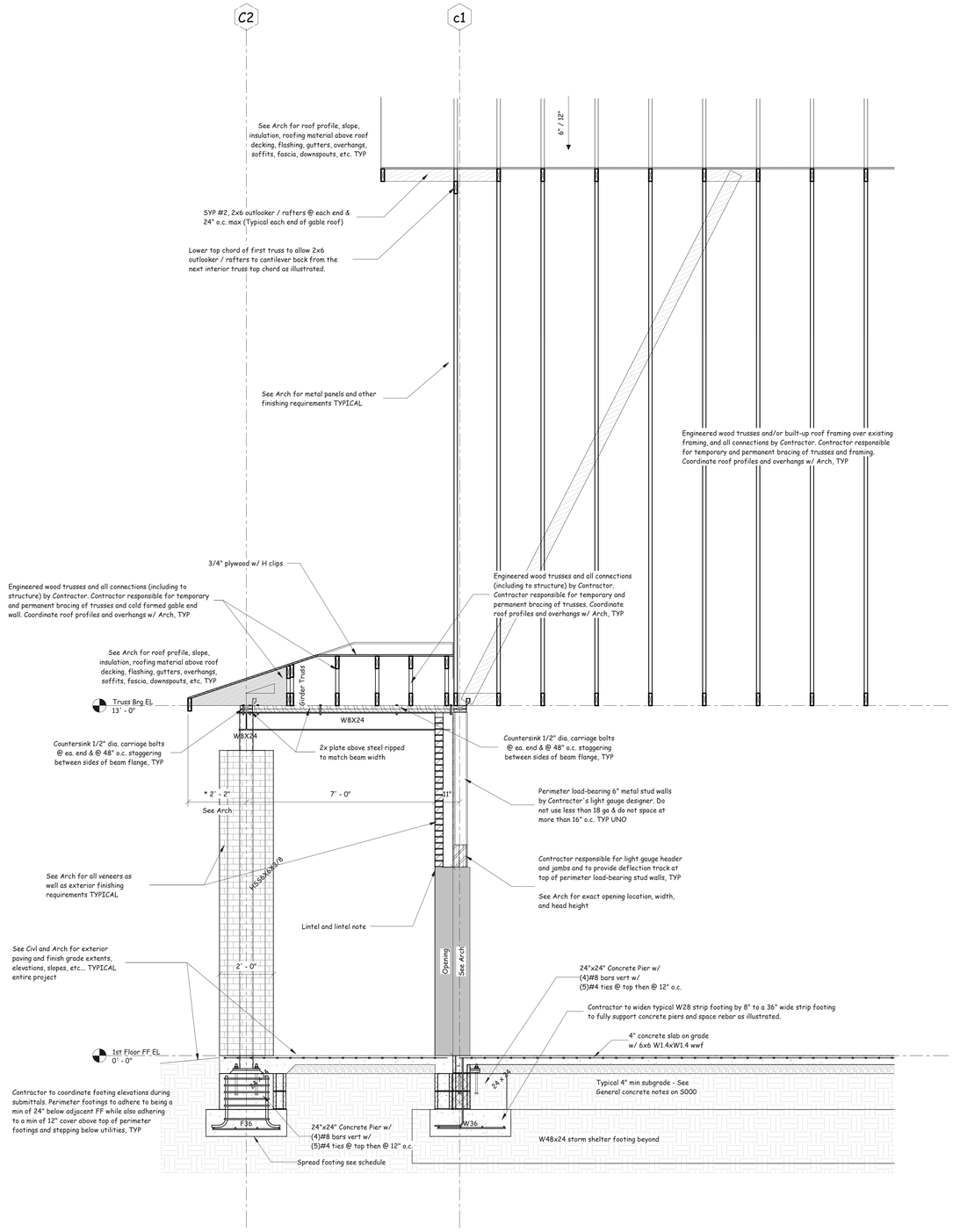
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SECTIONS & DETAILS

S500

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Section 1

1/2" = 1'-0"

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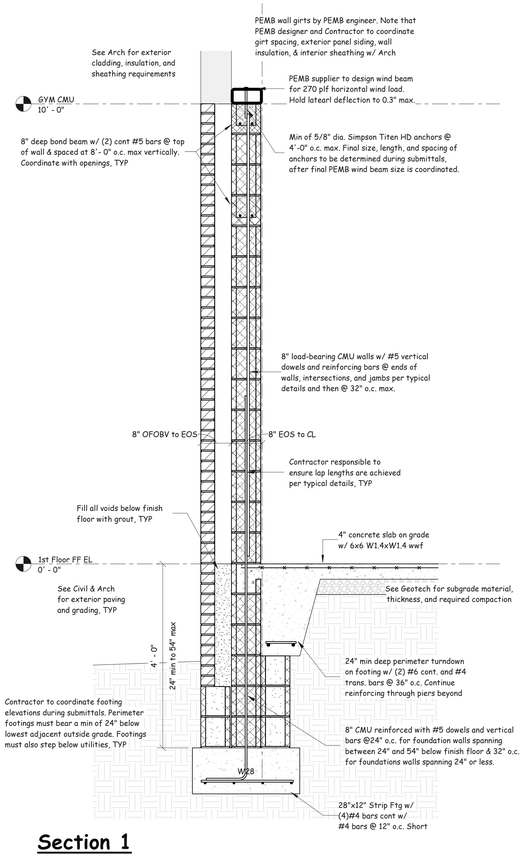
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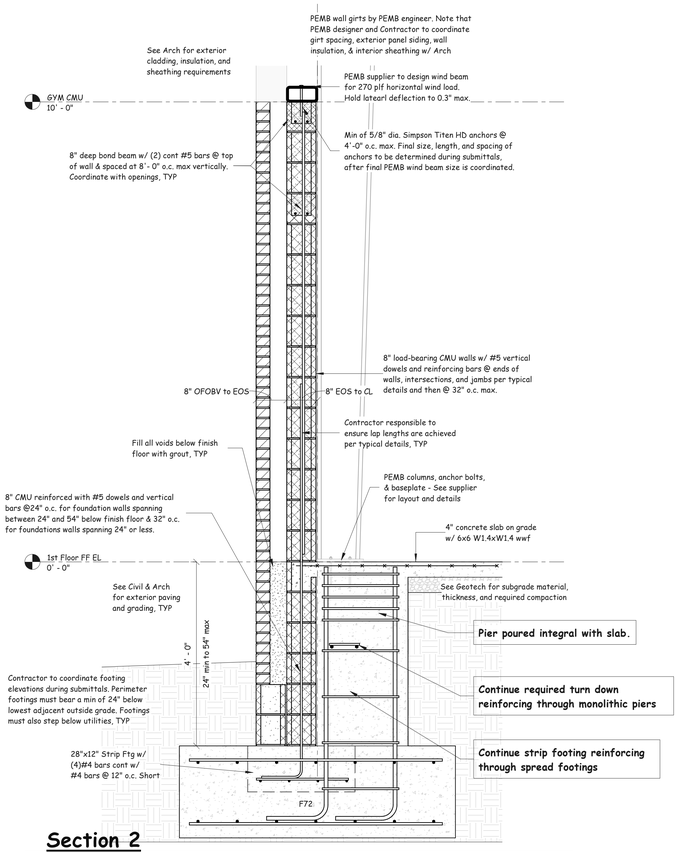
SECTIONS & DETAILS

S501



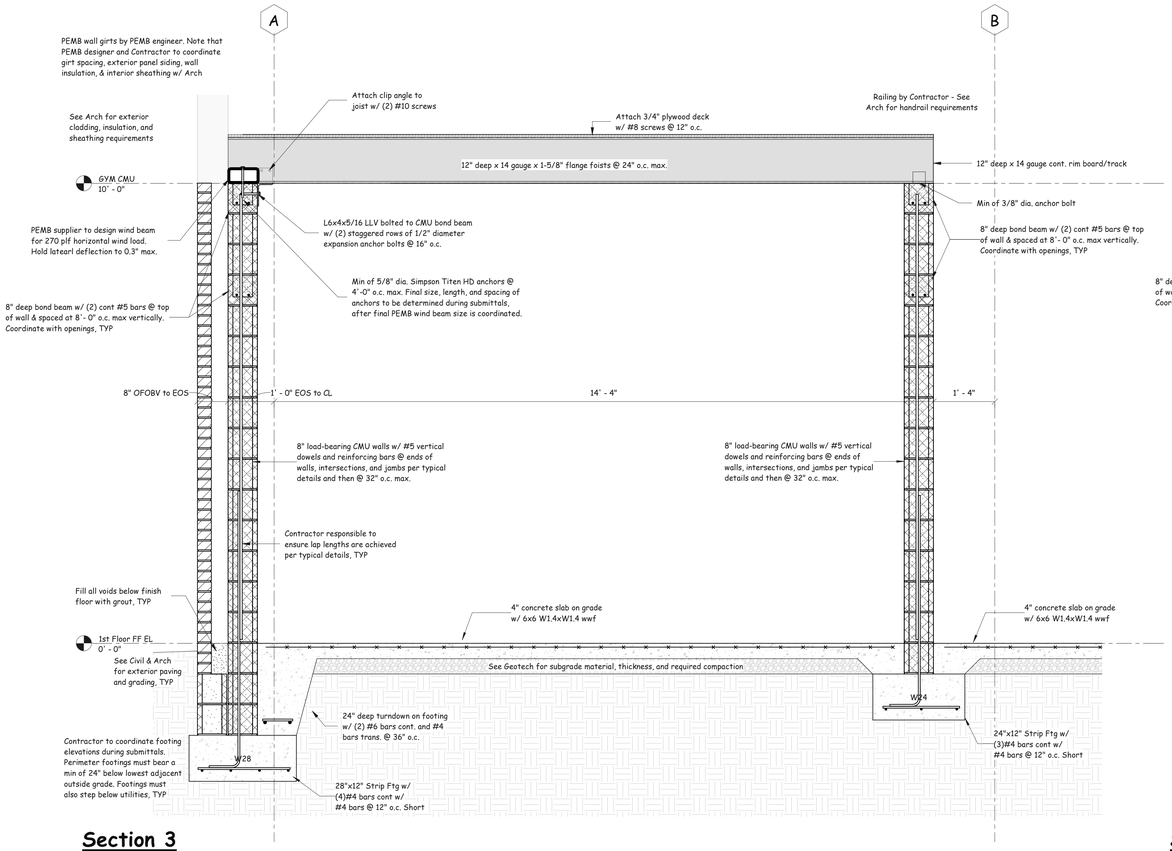
Section 1

3/4" = 1'-0"



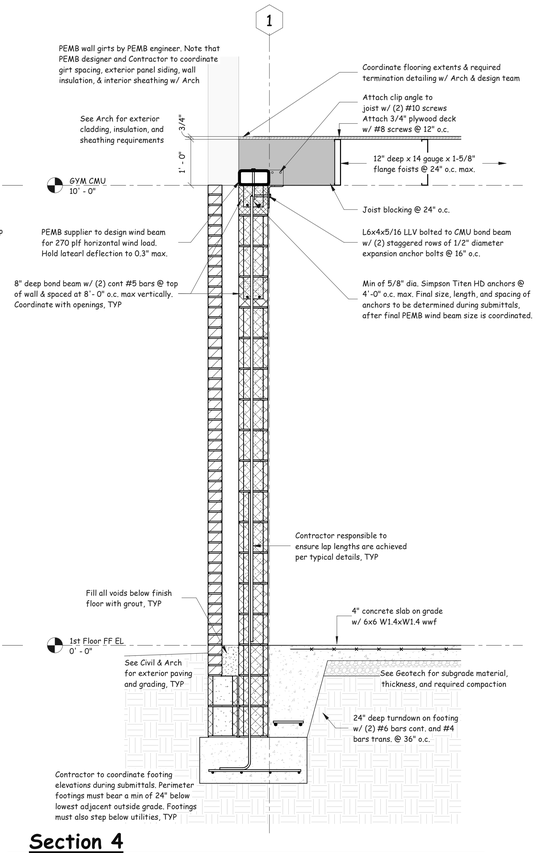
Section 2

3/4" = 1'-0"



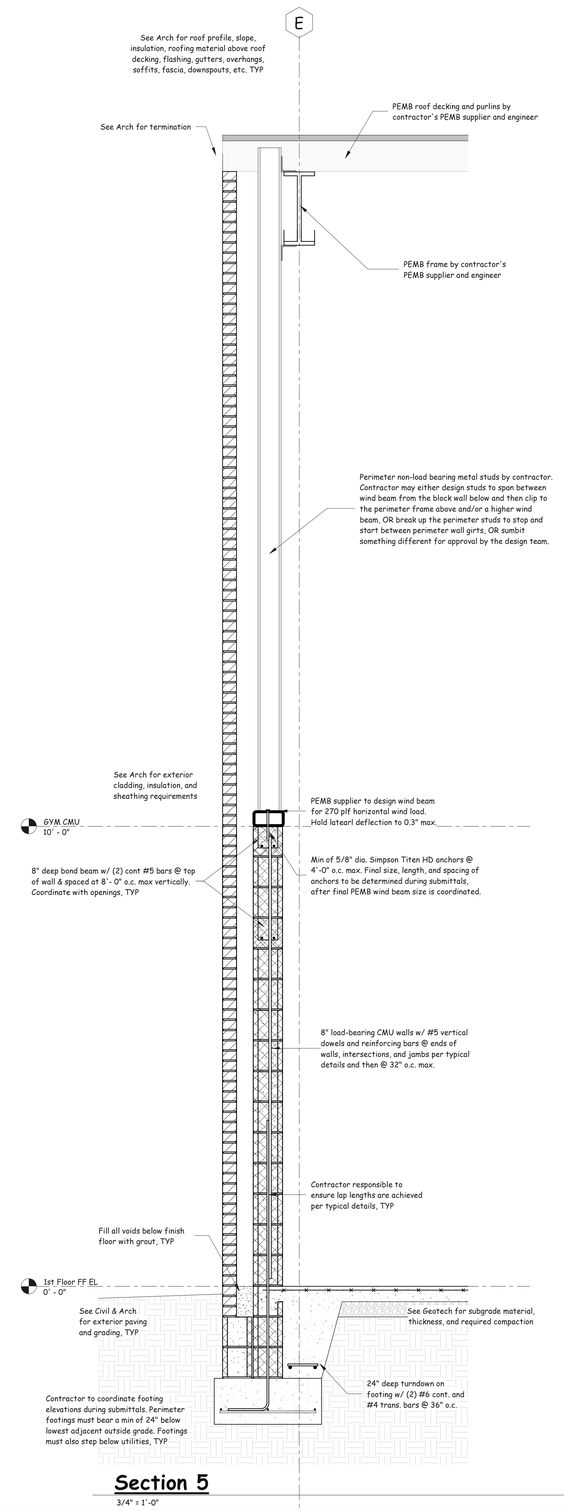
Section 3

3/4" = 1'-0"



Section 4

3/4" = 1'-0"



Section 5

3/4" = 1'-0"

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ALABAMA LICENSED 1-14-2026 No. 33979 PROFESSIONAL ENGINEER MICHAEL JOSHUA DOSS

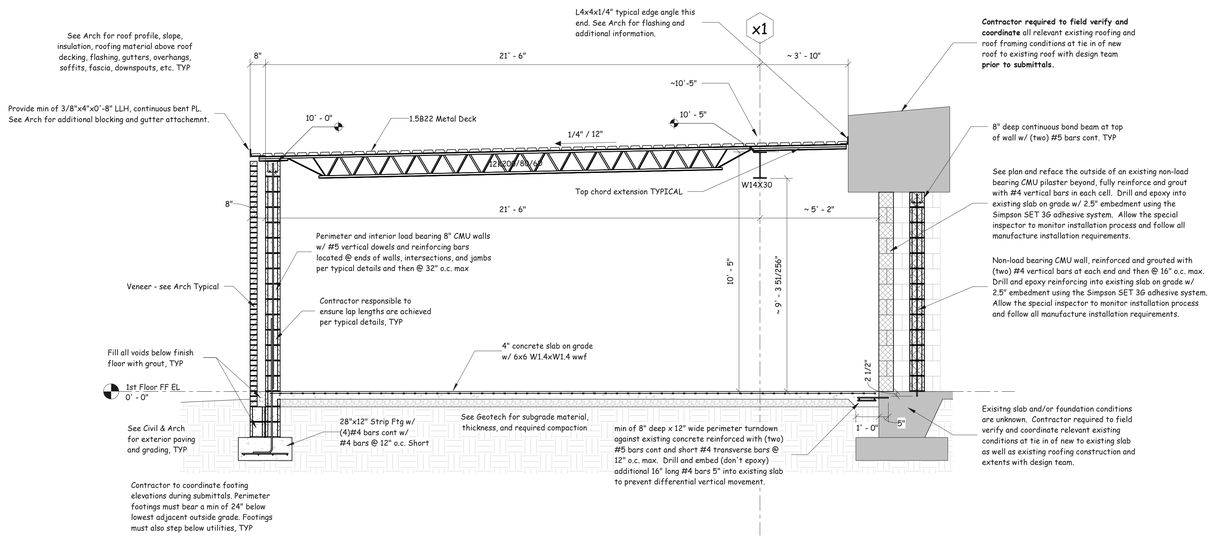
CONSTRUCTION DOCUMENTS

DATE: 1/14/26
PROJ NO: 24-100

REVISIONS		
#	DESC	DATE

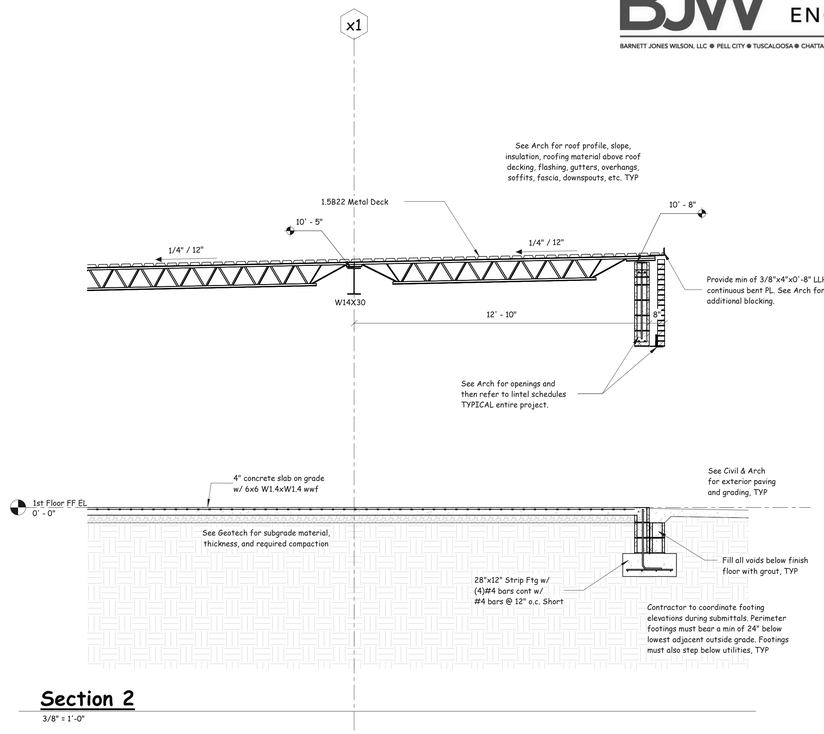
SECTIONS & DETAILS

S502



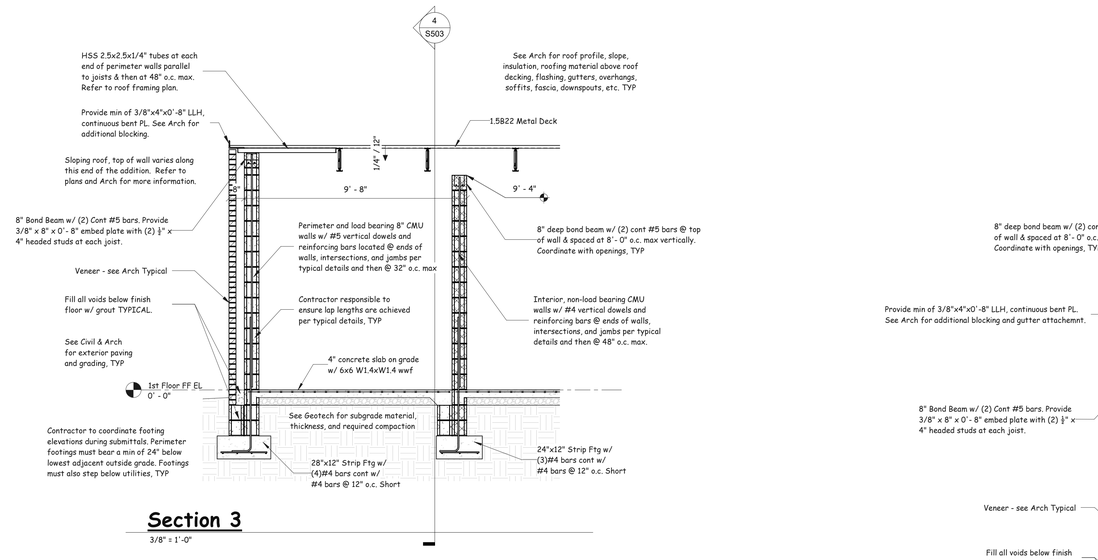
Section 1

3/8" = 1'-0"



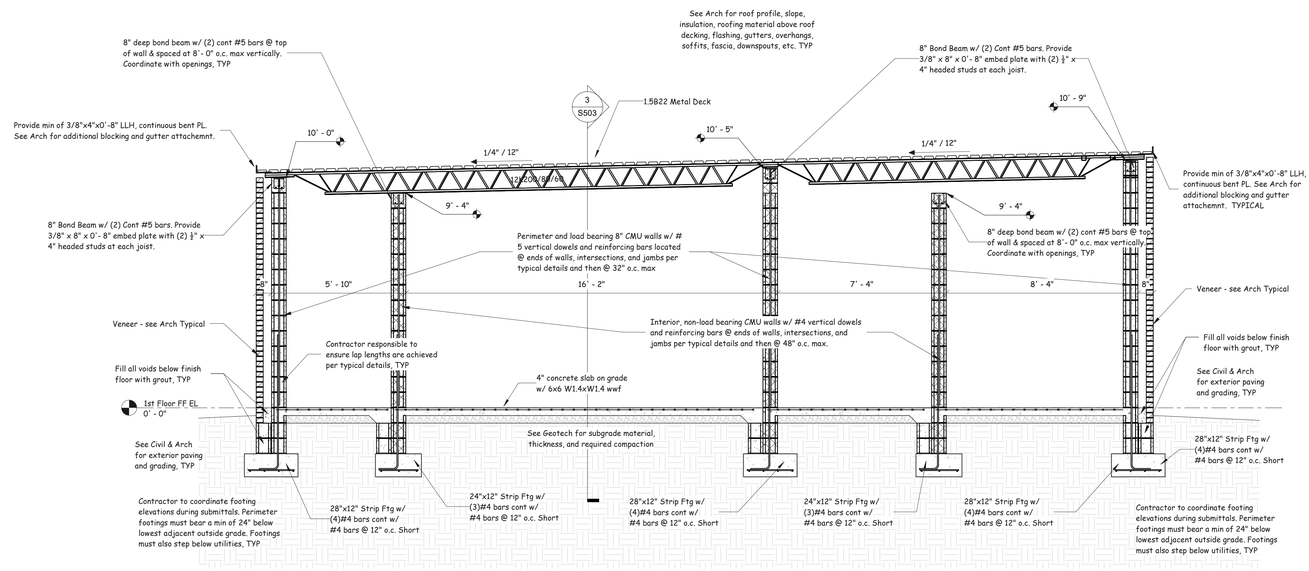
Section 2

3/8" = 1'-0"



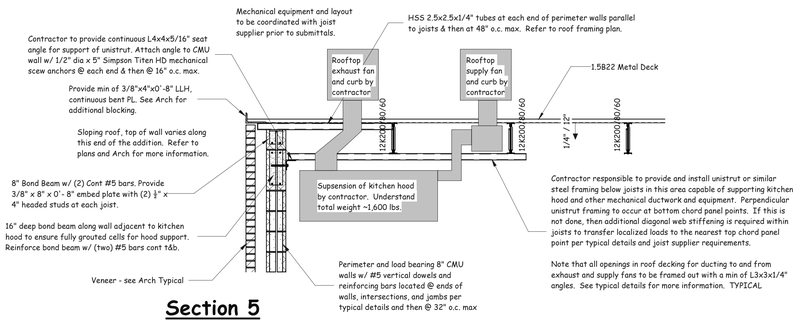
Section 3

3/8" = 1'-0"



Section 4

3/8" = 1'-0"



Section 5

1/2" = 1'-0"

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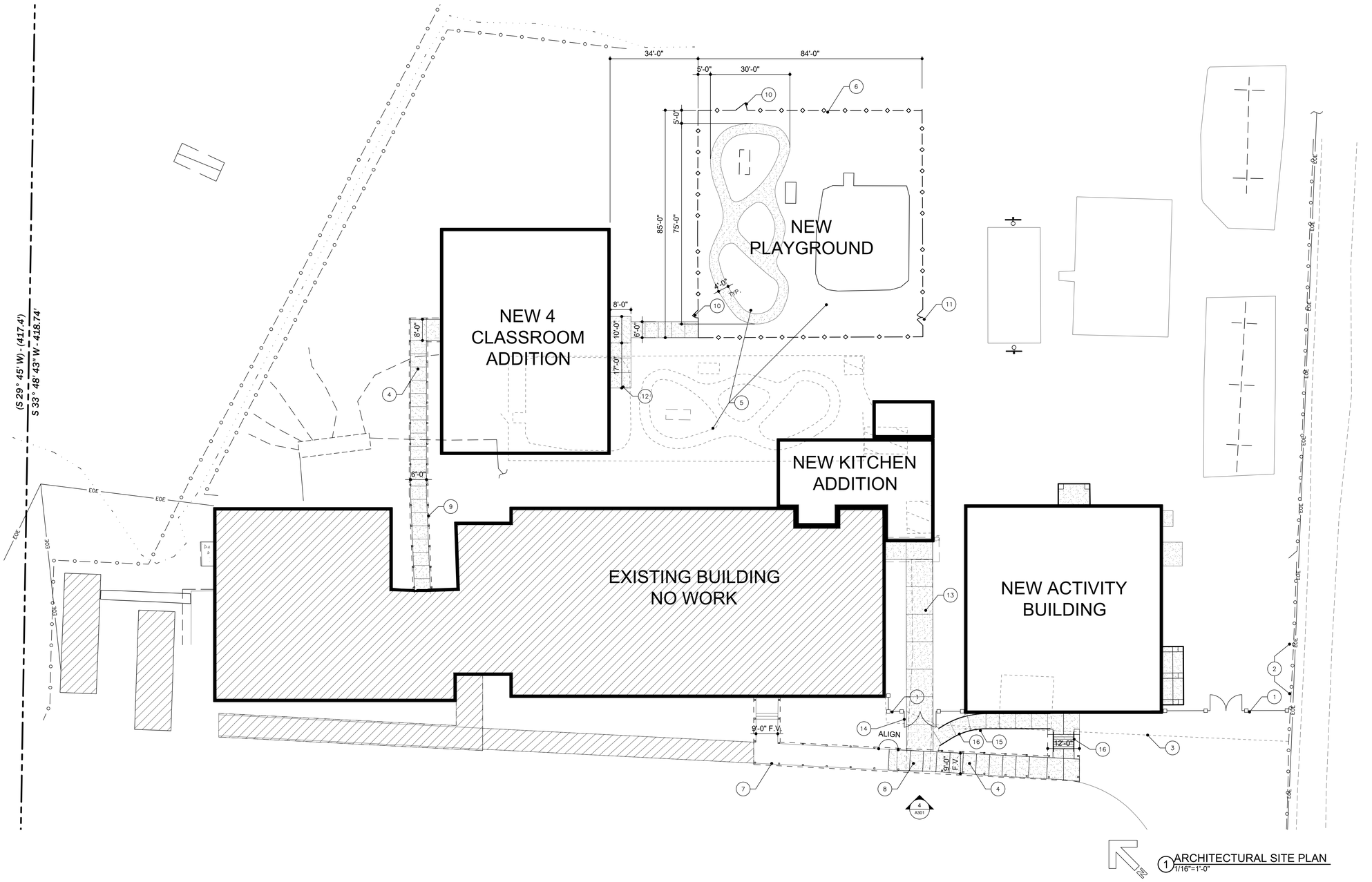
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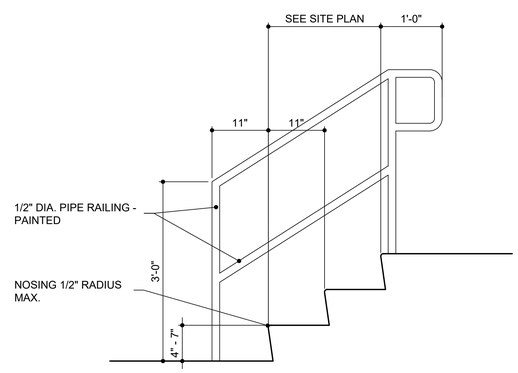
#	DESC	DATE

SECTIONS & DETAILS

S503



1 ARCHITECTURAL SITE PLAN
1/16"=1'-0"



2 TYPICAL RAIL DETAIL
1"=1'-0"
RAMP RAIL SIMILAR – COMPLY WITH ADA REGS.

REFERENCE NOTES

1. NEW DECORATIVE METAL FENCE WITH BRICK PILLARS - SEE DETAIL 6/A311
2. EXISTING FENCE TO REMAIN
3. EXISTING FENCING TO BE REMOVED
4. NEW CONCRETE SIDEWALK AND METAL CANOPY - FIELD VERIFY WIDTH TO ALIGN WITH EXISTING
5. POUR NEW CONCRETE SIDEWALK AND RELOCATE EXISTING PLAYGROUND EQUIPMENT - SEE ALLOWANCES
6. NEW 4' HIGH CHAIN LINK FENCE AND GATES TO MATCH EXISTING
7. EXTEND NEW METAL CANOPY OVER EXISTING SIDEWALK
8. RAISED PORTION OF CANOPY FOR TRUCK ACCESS - SEE DETAIL ?/?
9. DEMO EXISTING WALKWAY COVER AND REPLACE EXISTING ROTTEN BEAM
10. 3'-0" WIDE GATE
11. PAIR OF 4'-0" GATES
12. CONCRETE PAD 6'-0" X 8'-0"
13. NEW CONCRETE DRIVE SEE CIVIL DRAWINGS
14. PAIR OF 6'-0" DECORATIVE METAL GATES
15. RELOCATE EXISTING PLAYGROUND SIGN - COORDINATE LOCATION WITH OWNER
16. PAINTED PIPE RAIL SEE DETAIL 2/AC01 - RAMP RAIL TO BE SIMILAR COMPLY WITH ADA REQUIREMENTS

GENERAL NOTES

- REFER TO CIVIL FOR EXTENT OF SITE DEMOLITION AND NEW WORK
- PROTECT EXISTING PAVING AND CURBS TO REMAIN
- PROTECT EXISTING TREES TO REMAIN
- RE-SEED LAWN DISTURBED BY CONSTRUCTION REPAIR RUTS AND HOLES, ETC.

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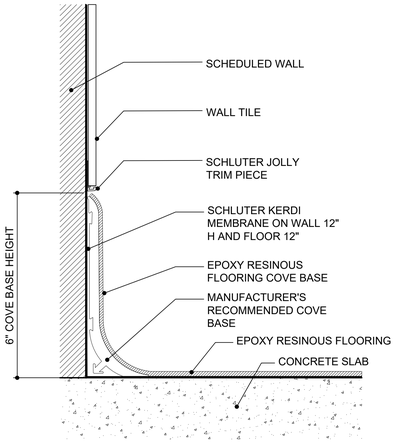
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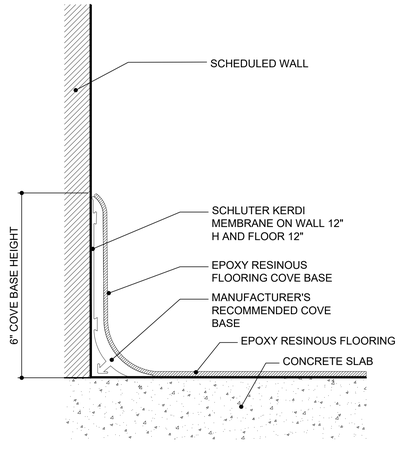
#	DESC	DATE

ARCHITECTURAL SITE PLAN

AC01



3 RESINOUS FLOOR AND WALL TILE DETAIL
6" = 1'-0"



2 RESINOUS FLOOR DETAIL
6" = 1'-0"

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WAINSCOT		WALLS				TRIM	CEILING		NOTES	ROOM NO.
				MATERIAL	HEIGHT	NORTH	SOUTH	EAST	WEST		MATERIAL	HEIGHT		
1101	GYM	SSF-1, SSF-2	RB-1	--	--	PNT-1,4,5	PNT-1,4,5	PNT-1,4,5	PNT-1,4,5	PNT-2	EXPOSED	--	2,3,12	1101
1102	OFFICE	LVT-1	RB-1	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-A	9'-8"	--	1102
1103	F.P.	S-CONC	--	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EXPOSED	--	--	1103
1104	CHASE	S-CONC	--	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EXPOSED	--	--	1104
1105	BOYS	RSF-1	RSF-1	--	--	PNT-1	GWT-1,2,3,4; PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-B	9'-8"	4,5,6	1105
1106	CORR	RSF-1	RSF-1	--	--	PNT-1,4,5	--	PNT-1,4,5	PNT-1,4,5	PNT-2	AC-PNL-A, GYP BD	VARIES	1.2	1106
1107	CHASE	S-CONC	--	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EXPOSED	--	--	1107
1108	GIRLS	RSF-1	RSF-1	--	--	PNT-1	GWT-1,2,3,4; PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-B	9'-8"	4,5,6	1108
1109	JAN	RSF-1	RSF-1	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-B	9'-8"	--	1109
1110	STORAGE	S-CONC	RB-1	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-A	9'-8"	--	1110
1111	CAFETERIA	SEE NOTE 7	SEE NOTE 7	--	--	SEE NOTE 7	EXISTING	EXISTING	EXISTING	SEE NOTE 7	EXISTING	EXISTING	7	1111
1112	KITCHEN	RSF-2	RSF-2	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-C	10'-0"	5,8	1112
1113	OFFICE	EXISTING	EXISTING	--	--	SEE NOTE 9	SEE NOTE 9	SEE NOTE 9	SEE NOTE 9	EXISTING	EXISTING	EXISTING	9	1113
1114	CORR	RSF-2	RSF-2	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-C	10'-0"	5,8	1114
1115	LAUND	RSF-2	RSF-2	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-C	8'-0"	5,8	1115
1116	TOIL	RSF-2	RSF-2	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-B	8'-0"	5,8	1116
1117	STOR	RSF-2	RSF-2	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-C	9'-0"	5,8	1117
1118	FREEZ	MFR STND	MFR STND	--	--	MFR STND	MFR STND	MFR STND	MFR STND	MFR STND	MFR STND	MFR STND	--	1118
1119	REFRIG	MFR STND	MFR STND	--	--	MFR STND	MFR STND	MFR STND	MFR STND	MFR STND	MFR STND	MFR STND	--	1119
1120	CLASSROOM	LVT-1	RB-1	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-A	10'-0"	11	1120
1121	JAN	RSF-1	RSF-1	WP-3	4'-0"	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-B	9'-0"	--	1121
1122	TOIL	RSF-1	RSF-1	--	--	GWT 1,2,3,4; PNT-1	GWT 1,2,3,4; PNT-1	GWT-1,2,3,4; PNT-1	GWT 1,2,3,4; PNT-1	PNT-2	AC-PNL-B	9'-0"	6,10	1122
1123	CORRIDOR	LVT-1,2,3,4,5	RB-2	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-A, GYP BD	VARIES	13	1123
1124	CLASSROOM	LVT-1	RB-1	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-A	10'-0"	11	1124
1125	CLASSROOM	LVT-1	RB-1	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-A	10'-0"	11	1125
1126	TOIL	RSF-1	RSF-1	--	--	GWT-1,2,3,4; PNT-1	GWT-1,2,3,4; PNT-1	GWT-1,2,3,4; PNT-1	GWT 1,2,3,4; PNT-1	PNT-2	AC-PNL-B	8'-0"	6,10	1126
1127	MECH	S-CONC	RB-1	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EXPOSED	--	--	1127
1128	TOIL	RSF-1	RSF-1	--	--	GWT 1,2,3,4; PNT-1	GWT 1,2,3,4; PNT-1	GWT-1,2,3,4; PNT-1	GWT 1,2,3,4; PNT-1	PNT-2	AC-PNL-B	8'-0"	6,10	1128
1129	VEST	LVT-3,4,5	RB-2	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-A	9'-9"	--	1129
1130	CLASSROOM	LVT-1	RB-1	--	--	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	AC-PNL-A	9'-9"	11	1130
1131	TOIL	RSF-1	RSF-1	--	--	GWT 1,2,3,4; PNT-1	GWT 1,2,3,4; PNT-1	GWT-1,2,3,4; PNT-1	GWT 1,2,3,4; PNT-1	PNT-2	AC-PNL-B	9'-0"	6,10	1131
1132	MEZZANINE	PLYWOOD DECKING	--	--	--	--	--	--	--	--	--	--	--	1132

FINISH LEGEND

FLOORING

LVT-1 LUXURY VINYL TILE
SHAW CONTRACT
COLLECTION: CREATING SPACE
STYLE: KIND 4123V
COLOR: SLATE 23520
SIZE: 23.62 IN X 23.62 IN
WEAR LAYER THICKNESS: 20 MIL
TOTAL THICKNESS: 5.0 MM
INSTALLATION METHOD: ASHLAR

LVT-2 LUXURY VINYL TILE (DK GRAY)
SHAW CONTRACT
COLLECTION: COLOR LINK
STYLE: 4609V
COLOR: VERSATILE 00595
SIZE: 7.75 IN X 48 IN
WEAR LAYER THICKNESS: 20 MIL
TOTAL THICKNESS: 5.0 MM

LVT-3 LUXURY VINYL TILE (BLUE)
SHAW CONTRACT
COLLECTION: COLOR LINK
STYLE: 4609V
COLOR: VIVID BLUE 00420
SIZE: 7.75 IN X 48 IN
WEAR LAYER THICKNESS: 20 MIL
TOTAL THICKNESS: 5.0 MM

LVT-4 LUXURY VINYL TILE (RED)
SHAW CONTRACT
COLLECTION: COLOR LINK
STYLE: 4609V
COLOR: ROSY RED 00870
SIZE: 7.75 IN X 48 IN
WEAR LAYER THICKNESS: 20 MIL
TOTAL THICKNESS: 5.0 MM

LVT-5 LUXURY VINYL TILE (LT GRAY)
SHAW CONTRACT
COLLECTION: COLOR LINK
STYLE: 4609V
COLOR: CALM 00515
SIZE: 7.75 IN X 48 IN
WEAR LAYER THICKNESS: 20 MIL
TOTAL THICKNESS: 5.0 MM

RSF-1 RESINOUS FLOORING WITH 6" COVE BASE
SHERWIN WILLIAMS
HIGH PERFORMANCE FLOORING
RESUFLOR DECO FLAKE - 1/4" FLAKE
COLOR: CUSTOM CS-398083-1CUS / CASE# 11398083
SEE 2/A001 & 3/A001 FOR BASE DETAIL

RSF-2 RESINOUS FLOORING WITH 6" COVE BASE
SHERWIN WILLIAMS
HIGH PERFORMANCE FLOORING
POLYCRETE SLB
COLOR: SLATE GRAY
SEE 2/A001 & 3/A001 FOR BASE DETAIL

SSF-1 SYNTHETIC SPORTS FLOORING SYSTEM WITH GAMELINES
ROBBINS SPORTS SURFACES
PULASTIC SYNTHETIC SPORTS FLOOR SYSTEM
CLASSIC 110 / WOODGRAIN
COLOR: MAGIC MAPLE
THICKNESS: 7/16" (11MM)
GAME LINE COLORS TBD DURING SUBMITTAL PHASE
SEE ALLOWANCES SECTION OF PROJECT MANUAL

SSF-2 SYNTHETIC SPORTS FLOORING SYSTEM (BORDER)
ROBBINS SPORTS SURFACES
PULASTIC SYNTHETIC SPORTS FLOOR SYSTEM
CLASSIC 110
COLOR: 506 DUSTY GRAY
THICKNESS: 7/16" (11MM)

S-CONC SEALED CONCRETE

BASE

RB-1 RUBBER BASE
FLEXCO
SIZE: 4" H CONTINUOUS ROLL
COLOR: 093 GRAPHITE

RB-2 RUBBER BASE
FLEXCO
BASE SCULPTURES
PROFILE: CAPTIVATE
SIZE: 4 1/4" H
COLOR: 093 GRAPHITE

TRANSITION STRIPS

TS-1 TRIM AT WALL TILE EDGES
SCHLUTER SYSTEMS
JOLLY
FINISH: BRUSHED CHROME
ANODIZED ALUMINUM (ACGB)

TS-2 LVT TO RESINOUS/CONCRETE FLOOR TRANSITION
SCHLUTER SYSTEMS
VINPRO-U
FINISH: BRUSHED CHROME
ANODIZED ALUMINUM (ACGB)

TS-3 METAL TRANSITION STRIP AT SYNTHETIC SPORTS FLOORING
WESTERN WEATHERSEAL CP412-1.5"
1 1/2 WIDE ALUMINUM THRESHOLD

WALLS

PNT-1 GENERAL PAINT COLOR
SHERWIN WILLIAMS
7065 ARGOS

PNT-2 TRIM PAINT COLOR
SHERWIN WILLIAMS
7067 CITYSCAPE
SEMI-GLOSS

PNT-3 ACCENT PAINT COLOR (BLUE)
SHERWIN WILLIAMS
9684 AZURE TIDE

PNT-4 ACCENT PAINT COLOR (RED)
BENJAMIN MOORE
2086-10 EXOTIC RED

PNT-5 ACCENT PAINT COLOR (WHITE)
SHERWIN WILLIAMS
7005 PURE WHITE

PNT-6 EXPOSED STRUCTURE PAINT COLOR
SHERWIN WILLIAMS
7068 GRIZZLE GRAY

GWT-1 GLAZED WALL TILE (LT GRAY)
DALTILE
COLOR WHEEL LINEAR
COLOR: DESERT GRAY X114
SIZE: 4" X 16"
FINISH: GLOSSY
THICKNESS: 5/16"

GWT-2 GLAZED WALL TILE (BLUE)
TRINITY TILE
WALL TILE COLLECTION
COLOR: DENIM (GROUP 3)
SIZE: 3" X 6"
FINISH: GLOSSY
THICKNESS: 5/16"

GWT-3 GLAZED WALL TILE (RED)
DALTILE
COLOR WHEEL LINEAR
COLOR: CURRANT SH17
SIZE: 2" X 8"
FINISH: GLOSSY
THICKNESS: 5/16"

GWT-4 GLAZED WALL TILE (WHITE)
DALTILE
COLOR WHEEL CLASSIC
COLOR: ARCTIC WHITE 0190
SIZE: 3" X 6"
FINISH: GLOSSY
THICKNESS: 5/16"

GROUT: LATICRETE 87 STORMY GREY

ACOUSTICAL WALL PANEL FABRIC

FP-1 ACOUSTICAL WALL PANEL FABRIC
GUILFORD OF MAINE
PURSUIT 3034
COLOR: CEMENT 7030
WIDTH: 66"

MILLWORK

PL-1 HIGH PRESSURE LAMINATE
WILSONART
7850-60 BEIGEWOOD

SS-1 SOLID SURFACE WINDOW SILLS
CORIAN
PEARL GRAY

CEILING TILE

AC-PNL-A ACOUSTICAL CEILING TILE
ARMSTRONG CEILINGS
ULTIMA HIGH NRC
15/16" SQUARE LAY-IN
#1940
SIZE: 24" X 24" X 7/8"
COLOR: WHITE

AC-PNL-B ACOUSTICAL CEILING TILE
VINYL COVERED GWB

AC-PNL-C ACOUSTICAL CEILING TILE
ARMSTRONG CEILINGS
KITCHEN ZONE
15/16" SQUARE LAY-IN
#673
SIZE: 24" X 24" X 5/8"
COLOR: WHITE

MISCELLANEOUS

TP-1 SOLID PLASTIC TOILET PARTITIONS
NFPA 286 APPROVED
ASI ACCURATE PARTITIONS
COLOR: 9237 CHARCOAL

WALL PROTECTION

WP-1 WALL PROTECTION
CORNER GUARD
ACROVYN
SSM-20N
5'-0" HIGH
COLOR: 927 FOLKSTONE

WP-2 WALL PROTECTION
END CAP ASSEMBLY
(2 CORNER GUARDS WITH WALLCOVERING BETWEEN)
ACROVYN
SSM-25N
5'-0" HIGH
COLOR: 927 FOLKSTONE

WP-3 WALL PROTECTION
HIGH IMPACT WALLCOVERING
ACROVYN
4000 - 0.060"
COLOR: 927 FOLKSTONE

GENERAL NOTES:

- GYP BOARD WALL PAINT SHEEN TO BE EGGSHELL. CMU WALL PAINT SHEEN TO BE SEMI-GLOSS. GYP BOARD SOFFIT PAINT SHEEN TO BE FLAT.
- PROVIDE ADA COMPLIANT METAL TRANSITION STRIPS AS REQUIRED WHERE CHANGES IN FLOORING MATERIAL OCCUR. SEE FINISH LEGEND FOR SPECIFIC APPLICATIONS.
- PROVIDE TRANSITION STRIPS/EDGE TRIM AT ALL WALL TILE LOCATIONS. SEE FINISH LEGEND FOR SPECIFIC APPLICATIONS
- ALL EXPOSED PAINTED GWB CORNERS TO RECEIVE WP-1, UNLESS OTHERWISE NOTED.
- ALL WINDOW SILLS TO BE SOLID SURFACE, SS-1.
- ALL TOILET PARTITIONS TO BE TP-1
- PROVIDE MARKERBOARDS AND TACKBOARDS IN ALL CLASSROOMS. SEE SPECIFICATIONS.
- EXPOSED CEILING IN GYM TO RECEIVE DRY FALL PAINT
- PROVIDE BLINDS IN WINDOWS. SEE SPECS.

REFERENCE NOTES:

1. SOFFIT ABOVE WATER FOUNTAIN TO BE PAINTED PNT-1. SEE INTERIOR ELEVATION.
2. SEE DETAIL 1/A403 FOR TYPICAL WALL PAINT PATTERN.
3. ALL EXPOSED STRUCTURE TO BE PAINTED PNT-6. SEE INTERIOR ELEVATIONS.
4. WALL TILE LOCATED ON SOUTH WALL ONLY. SEE INTERIOR ELEVATION. SEE 2/A403 FOR WALL TILE PATTERN.
5. SEE DETAIL 2/A001 FOR RESINOUS BASE DETAIL
6. SEE DETAIL 3/A001 FOR RESINOUS BASE AND WALL TILE DETAIL.
7. EXISTING FLOORING TO REMAIN. PAINT ENTIRE NORTH WALL CORNER TO CORNER. PAINT TRIM. PROVIDE NEW RUBBER BASE ON NORTH WALL ONLY. MATCH EXISTING FINISHES.
8. PROVIDE EPOXY PAINT ON ALL WALLS.
9. PAINT ALL WALLS. MATCH EXISTING PAINT COLOR. EXISTING FLOORING AND BASE TO REMAIN.
10. PROVIDE GLAZED WALL TILE 7'-2" H WAINSCOT ON WET WALL ONLY. PROVIDE 5'-2" H WAINSCOT ON REMAINING WALLS (SEE 11/A403). SEE INTERIOR ELEVATIONS.
11. STORAGE CABINETS AND CUBBIES TO BE PL-1.
12. PROVIDE ACOUSTICAL WALL PANELS (AWP-1) IN FABRIC FP-1 ON ALL WALLS. SEE INTERIOR ELEVATIONS AND SPECS.
13. SOFFIT ABOVE CLASSROOM DOORS TO BE PNT-3 (BLUE). SOFFIT ABOVE WATER FOUNTAIN TO BE PNT-4 (RED).

NOTE: ALL FINISHES ARE PLAN NORTH

1 FINISH SCHEDULE AND LEGEND
NO SCALE

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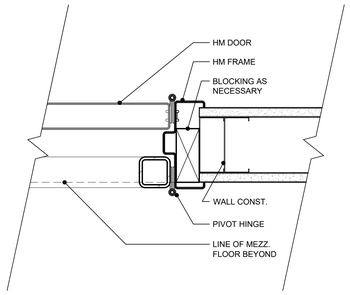
DATE: 1/14/26
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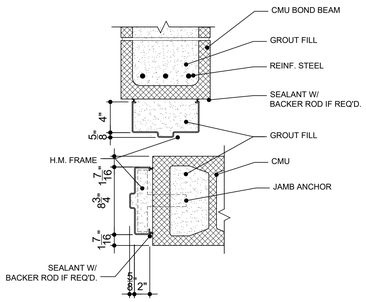
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FINISH SCHEDULE AND LEGEND

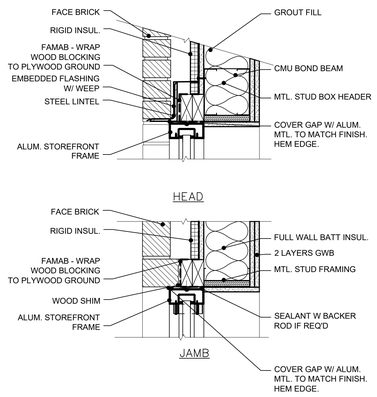
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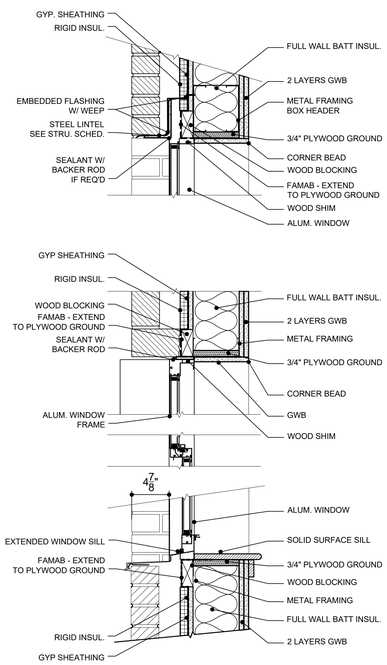
11 MEZZININE DETAIL
3"=1'-0"



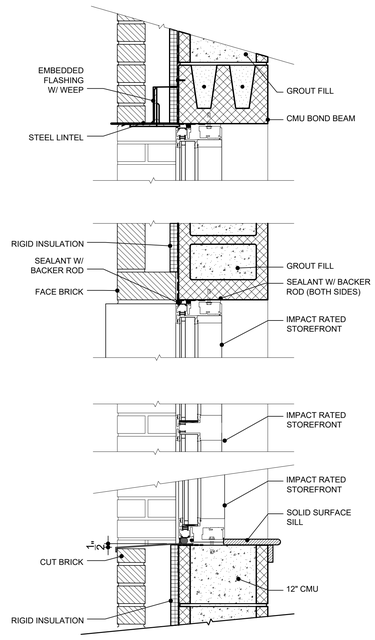
10 INT HM AT CMU DETAILS
1 1/2"=1'-0"



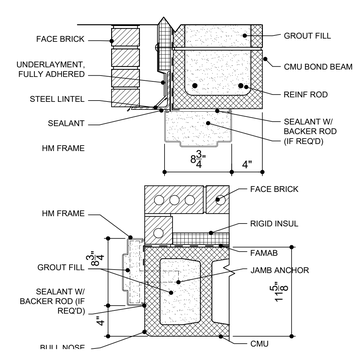
8 EXT. STOREFRONT DETAILS
1 1/2"=1'-0"



4 TYP WINDOW DETAILS
1 1/2"=1'-0"



7 IMPACT WINDOW DETAILS
1 1/2"=1'-0"



3 HM FRAME AT EXT. WALL
1 1/2"=1'-0"

DOOR NO.	OPENING			DOOR			FRAME			HDWR	NOTES	SIGNAGE	DOOR NO.
	RATING	WIDTH	HEIGHT	ELEVATION	MATERIAL	GLAZING	ELEVATION	MATERIAL	GLAZING	SET #			
1101A	--	PR 3'-0"	7'-0"	D2	HM	FT	F1	HM	--	2	3	--	1101A
1101B	--	8'-0"	7'-4"	D5	MTL	--	--	MTL	--	MFR	--	--	1101B
1101C	--	3'-0"	7'-0"	D1	HM	--	F1	HM	--	5	--	--	1101C
1102A	--	3'-0"	7'-0"	D2	HM	G1	F1	HM	--	13	--	B	1102A
1102B	--	2'-8"	4'-8"	--	--	--	F2	HM	FT	--	--	--	1102B
1103A	--	3'-0"	7'-0"	D1	HM	--	F1	HM	--	6	--	--	1103A
1104A	--	1'-8"	7'-0"	D1	HM	--	F1	HM	--	15	--	--	1104A
1105A	--	3'-0"	7'-0"	D1	HM	--	F1	HM	--	12	--	A	1105A
1106A	--	PR 3'-0"	7'-0"	D2	HM	FT	F1	HM	--	4	--	--	1106A
1107A	--	1'-8"	7'-0"	D1	HM	--	F1	HM	--	15	--	--	1107A
1108A	--	3'-0"	7'-0"	D1	HM	--	F1	HM	--	12	--	A	1108A
1109A	--	3'-0"	7'-0"	D1	HM	--	F1	HM	--	14	--	B	1109A
1110A	--	3'-0"	7'-0"	D1	HM	--	F1	HM	--	14	--	--	1110A
1112A	--	3'-0"	7'-0"	D2	WD	FT	F1	H.M.	--	16	1, 2	--	1112A
1113A	--	2'-8"	4'-8"	--	--	--	F3	HM	FT	--	--	--	1113A
1113B	--	2'-8"	4'-8"	--	--	--	F3	HM	FT	--	--	--	1113B
1114A	--	4'-0"	7'-0"	D1	HM	--	F1	H.M.	--	3	3	--	1114A
1115A	--	3'-0"	7'-0"	D1	WD	--	F1	H.M.	--	14	--	--	1115A
1116A	--	3'-0"	7'-0"	D1	WD	--	F1	H.M.	--	11	--	--	1116A
1117A	--	3'-0"	7'-0"	D1	WD	--	F1	H.M.	--	14	--	B	1117A
1120A	20 MIN	3'-0"	7'-0"	D3	WD	FT	F2	H.M.	--	10	--	C	1120A
1121A	--	3'-0"	7'-0"	D1	WD	--	F2	H.M.	--	13	--	B	1121A
1122A	--	3'-0"	7'-0"	D1	WD	--	F2	H.M.	--	11	--	A	1122A
1123A	--	PR 3'-0"	7'-0"	D4	ALUM	FT	F4	ALUM	G2	1	3	--	1123A
1123B	--	PR 3'-0"	7'-0"	D4	ALUM	FT	F4	ALUM	G2	1	3	--	1123B
1124A	20 MIN	3'-0"	7'-0"	D3	WD	FT	F2	H.M.	--	10	--	C	1124A
1125A	20 MIN	3'-0"	7'-0"	D3	WD	FT	F2	H.M.	--	10	--	C	1125A
1125B	--	3'-0"	7'-0"	D3	WD	FT	F1	H.M.	--	13	--	--	1125B
1126A	90 MIN	3'-0"	7'-0"	SD1	HM	--	SF1	H.M.	--	9	--	B	1126A
1127A	--	3'-0"	7'-0"	D1	WD	--	F2	H.M.	--	11	--	A	1127A
1128A	--	3'-0"	7'-0"	D1	WD	--	F2	H.M.	--	11	--	A	1128A
1128B	90 MIN	3'-0"	7'-0"	SD1	HM	--	SF1	H.M.	--	7	--	H	1128B
1129A	90 MIN	PR 3'-8"	7'-0"	SD1	HM	--	SF1	H.M.	--	8	--	H	1129A
1130A	--	3'-0"	7'-0"	D3	WD	FT	F1	H.M.	--	10	--	C	1130A
1131A	--	3'-0"	7'-0"	D1	WD	--	F2	H.M.	--	11	--	B	1131A

OPENING SCHEDULE LEGEND:

HM = HOLLOW METAL
MFR = MANUFACTURER
MTL = METAL
ALUM = ALUMINUM

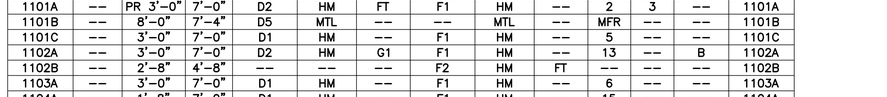
GLAZING LEGEND:

FT - FULLY TEMPERED
G1 - 1/4" CLEAR GLASS
G2 - 1" INSULATED TINTED GLASS

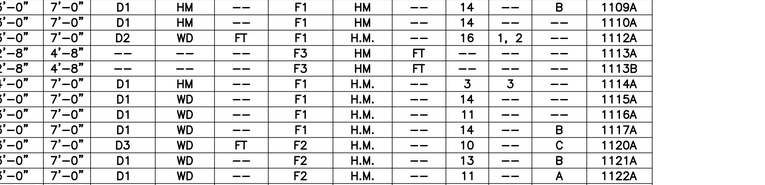
NOTES:

1. NEW DOOR AND FRAME IN EXISTING OPENING.
2. DOUBLE-ACTING DOOR
3. INSTALL CONDUIT AND BOXES FOR FUTURE ACCESS CONTROL DEVICES - SEE ELECT.

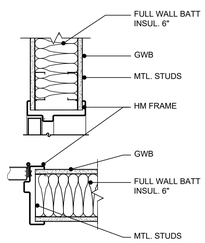
9 OPENING SCHEDULE
N.T.S.



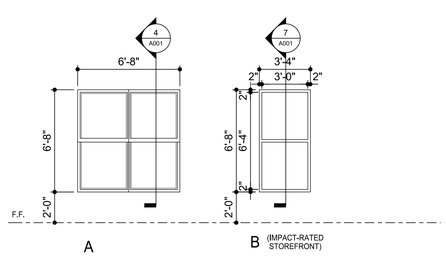
6 DOOR ELEVATIONS
1/4"=1'-0"



5 FRAME ELEVATIONS
1/4"=1'-0"



2 STUD JAMB DETAILS
1 1/2"=1'-0"



1 WINDOW ELEVATIONS
1/4"=1'-0"

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OPENING SCHEDULE AND DETAILS

A002

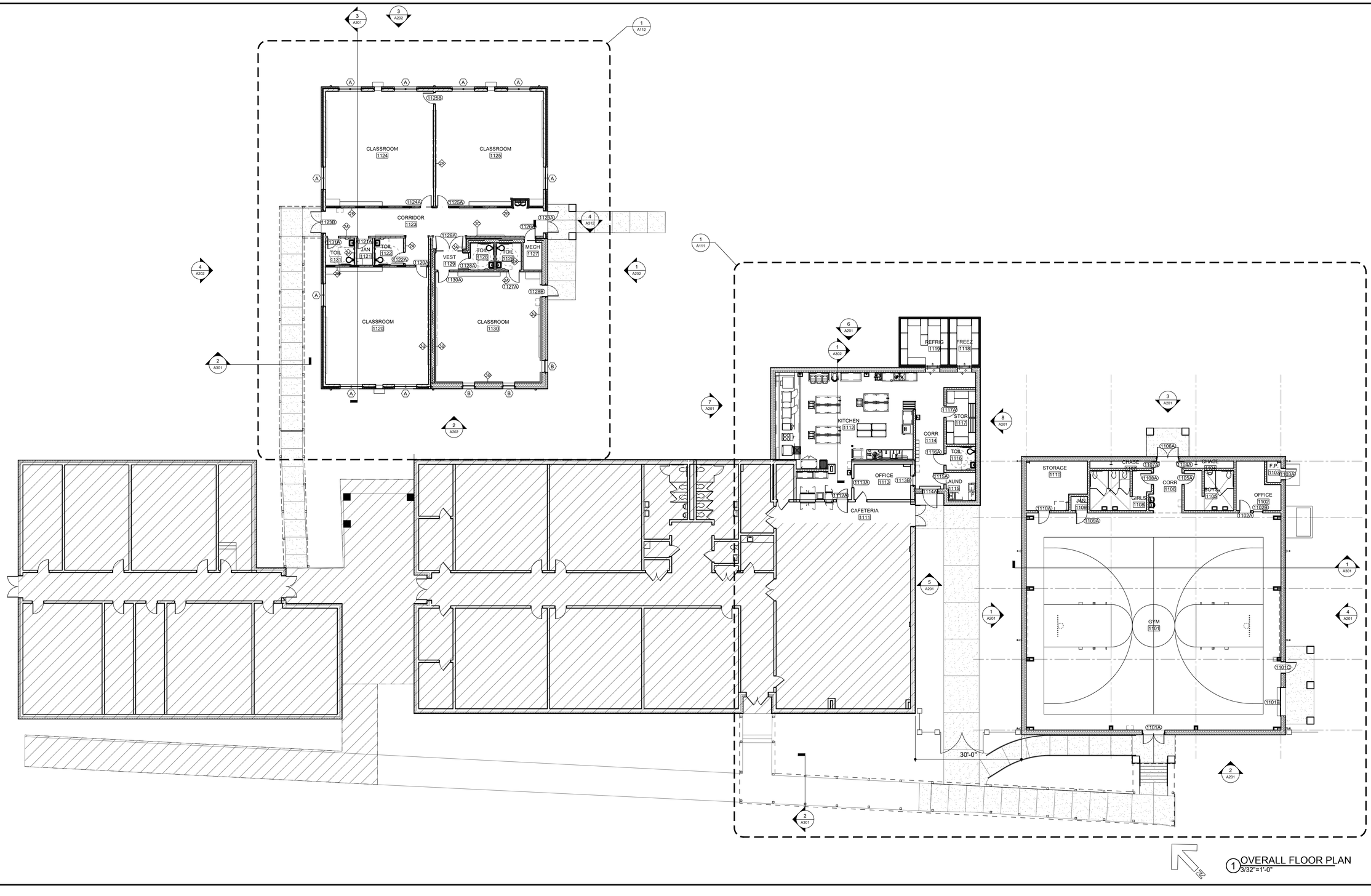
LEGEND:

NO WORK IN THIS AREA

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1 OVERALL FLOOR PLAN
3/32"=1'-0"

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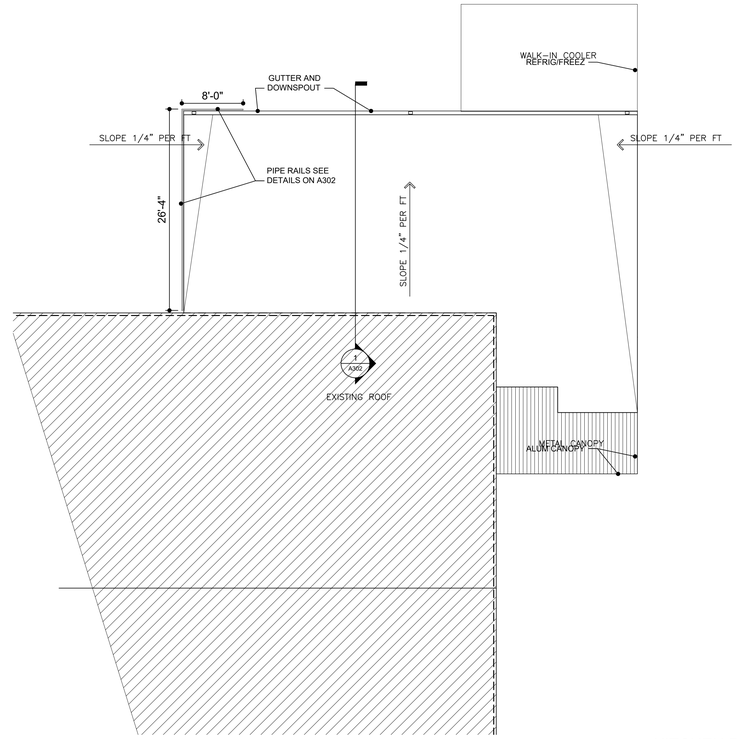
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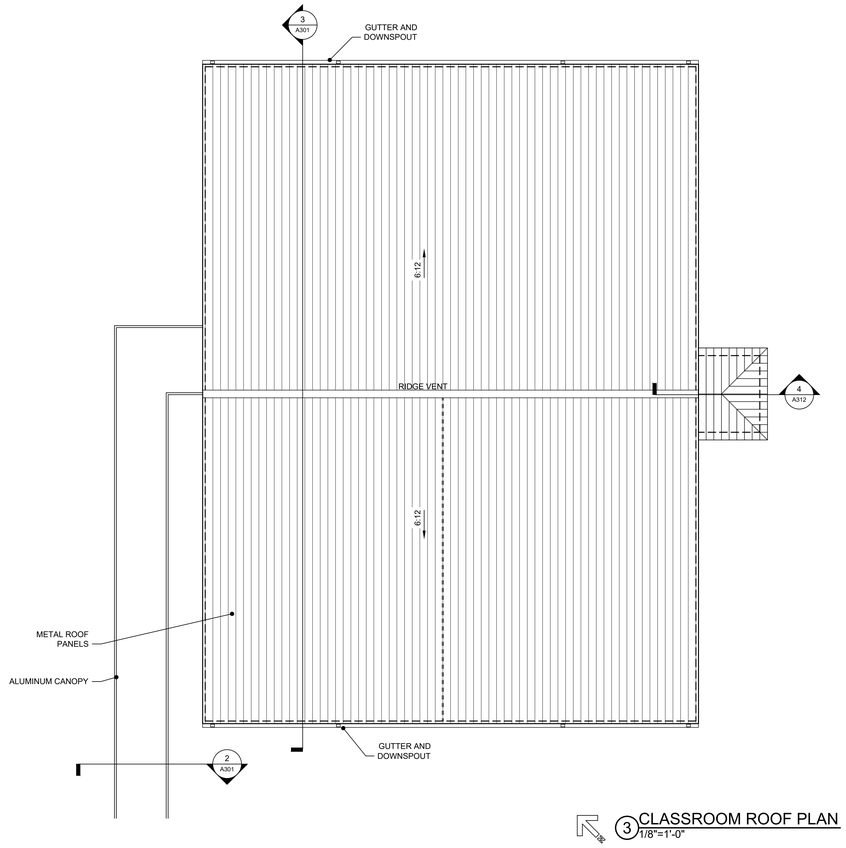
REVISIONS		
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FLOOR PLAN

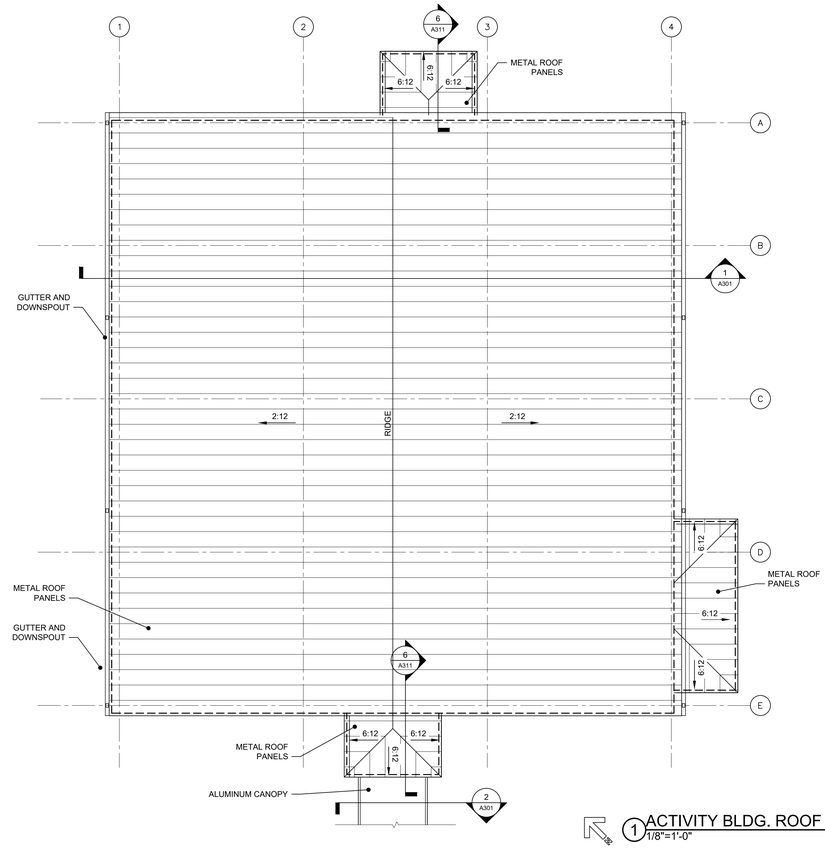
A101



2 KITCHEN ROOF PLAN
1/8"=1'-0"



3 CLASSROOM ROOF PLAN
1/8"=1'-0"



1 ACTIVITY BLDG. ROOF PLAN
1/8"=1'-0"

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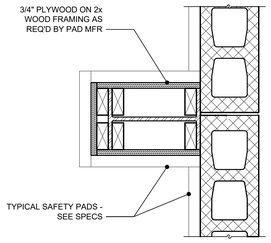
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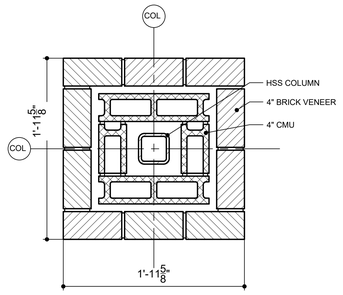
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ROOF PLANS

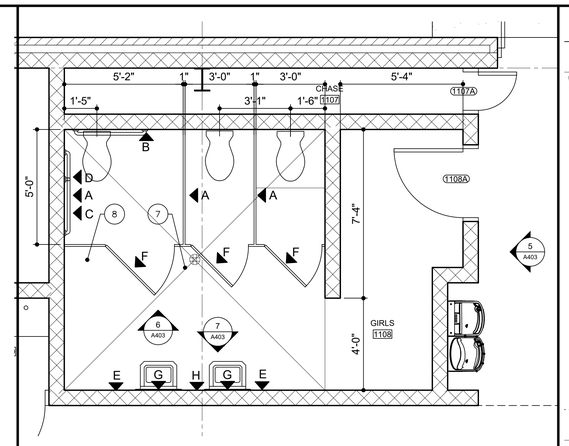
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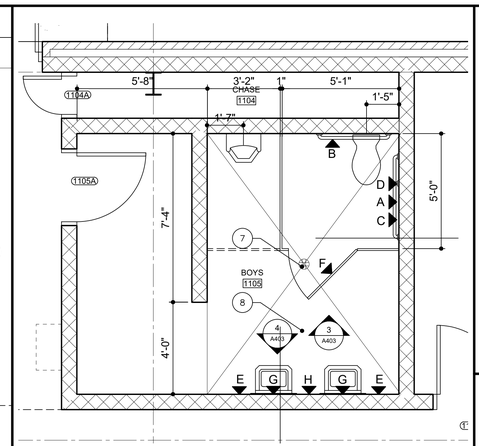
5 WALL PAD DETAIL
1 1/2""=1'-0"



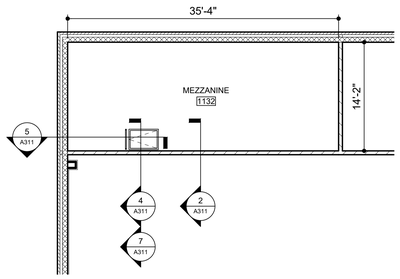
4 COLUMN WRAP DETAIL
1 1/2""=1'-0"



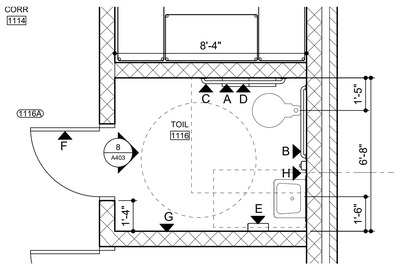
3 ENLARGED GIRLS RESTROOM
3/8"=1'-0"



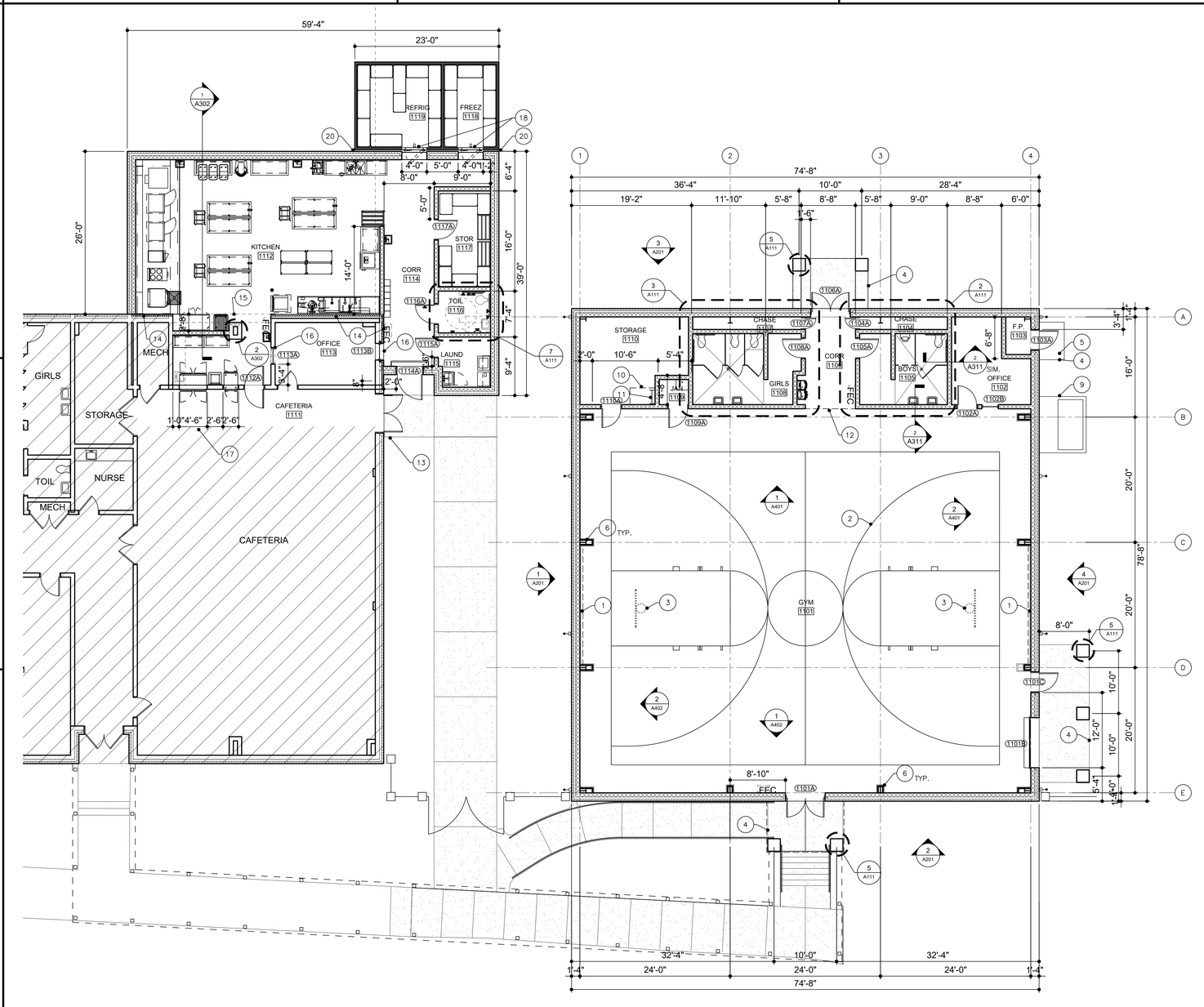
2 ENLARGED BOYS RESTROOM
3/8"=1'-0"



6 MEZZANINE FLOOR PLAN
1/8"=1'-0"



7 ENLARGED PLAN
3/8"=1'-0"



1 PARTIAL FLOOR PLAN
1/8"=1'-0"

LEGEND

- BRICK CONTROL JOINT LOCATIONS
- DOWNSPOUT AND DRAIN BOOT LOCATIONS

TOILET ACCESSORIES LEGEND

- A TOILET TISSUE DISPENSER
- B GRAB BAR 36"
- C GRAB BAR 42"
- D GRAB BAR 18"
- E PAPER TOWEL DISPENSER
- F ROBE HOOK
- G MIRROR 24" X 36"
- H SOAP DISPENSER

REFERENCE NOTES

1. WALL PADS BETWEEN COLUMNS.
2. COURT STRIPING, 2" WIDE NATURAL POLISHED CONRETE BY CONCRETE FINISHER.
3. BASKETBALL GOALS, CONTRACTOR TO COORDINATE W/ PEMB TO ALLOW FOR LOADS.
4. METAL AWNING BY METAL BUILDING MRF.
5. 4' x 6' CONCRETE PAD
6. PROVIDE FRAMING AND PROTECTIVE PADS AT COLUMNS. SEE DETAIL 6/A111 - TYP.
7. SLOPE CONCRETE SLAB 1/8" PER FOOT TO FLOOR DRAINS- SEE PLUMBING DWGS.
8. FLOOR MOUNTED- OVERHEAD BRACED TOILET PARTITIONS- SEE SPECS.
9. 7'-6" x 9'-0" CONCRETE PAD
10. MEZZANINE ACCESS DOOR. SEE DETAILS 5/A311 AND 7/A311.
11. METAL LADDER. SEE 4/A311.
12. PROVIDE GWB CLG. AND WALL TO DECK ABOVE
13. 8'X19' METAL WALKWAY COVER
14. DEMO EXISTING BRICK VENEER WHERE NEW KITCHEN JOINS EXISTING BUILDING AND INSTALL NEW 4" CMU FULL HEIGHT - TIE INTO EXISTING CMU
15. DEMO EXISTING EXTERIOR WALL AND INSTALL NEW BEAM - SEE STRUCTURAL
16. DEMO EXISTING WALL CONSTRUCTION AND INSTALL NEW HM WINDOW - INSTALL NEW BULLNOSE CMU AT PERIMETER
17. DEMO EXISTING CMU WALL TO ACCOMMODATE NEW EQUIP. - COORDINATE EXACT DIMENSIONS WITH EQUIP SUPPLIER
18. COORDINATE EXACT OPENING LOCATIONS AND DIMENSIONS WITH EQUIP SUPPLIER
19. MEZZANINE EXTENTS INDICATED BY DASHED LINE
20. INSTALL CONT. ALUM CLOSURE TRIM BETWEEN COOLER AND BRICK VENEER - TYPICAL

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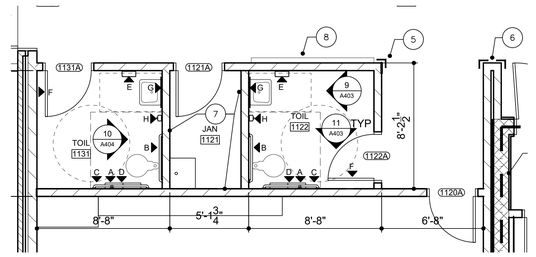
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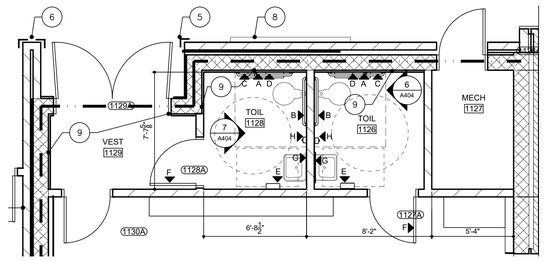
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FLOOR PLAN - KITCHEN AND ACTIVITY BUILDING

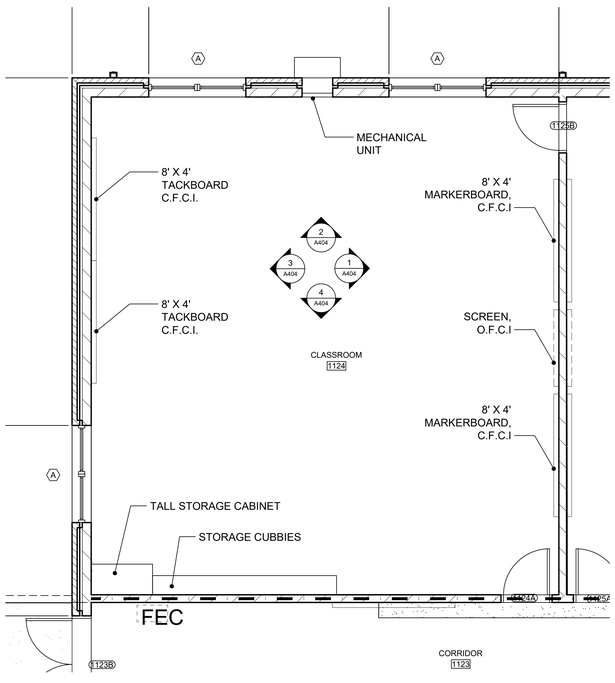
A111



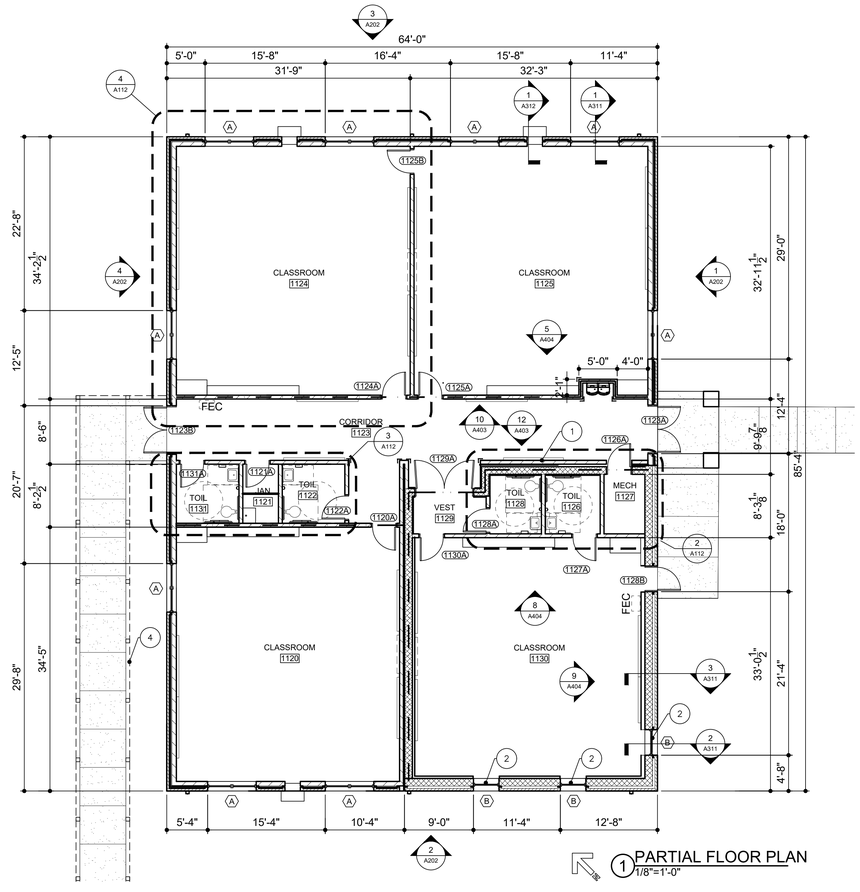
3 ENLARGED PLAN
1/4"=1'-0"



2 ENLARGED PLAN
1/4"=1'-0"



4 TYPICAL CLASSROOM PLAN
1/4"=1'-0"



1 PARTIAL FLOOR PLAN
1/8"=1'-0"

TOILET ACCESSORIES LEGEND

- A TOILET TISSUE DISPENSER
- B GRAB BAR 36"
- C GRAB BAR 42"
- D GRAB BAR 18"
- E PAPER TOWEL DISPENSER
- F ROBE HOOK
- G MIRROR 24" X 36"
- H SOAP DISPENSER

LEGEND

- BRICK CONTROL JOINT LOCATIONS
- DOWNSPOUT AND DRAIN BOOT LOCATIONS

REFERENCE NOTES

1. FULL HEIGHT 6" STUD WALL (GWB ONE SIDE) ON WEST SIDE OF EXPANSION JOINT
2. SHELTER WINDOWS
3. 6'-0" x 8'-0" CONCRETE PAD
4. METAL WALKWAY CANOPY - SEE A101 FOR EXTENT
5. PROVIDE CORNER GUARD WALL PROTECTION, WP-1.
6. PROVIDE END WALL GUARD WALL PROTECTION, WP-2.
7. PROVIDE SHEET WALL PROTECTION 4'-0" H, WP-3.
8. PROVIDE TWO (2) 8'-0" DISPLAY RAILS. SEE INTERIOR ELEVATION AND SPECS.
9. INSTALL 7/8" HAT CHANNELS AND GYP. BD. TO 6" ABOVE CEILING ON THIS WALL.

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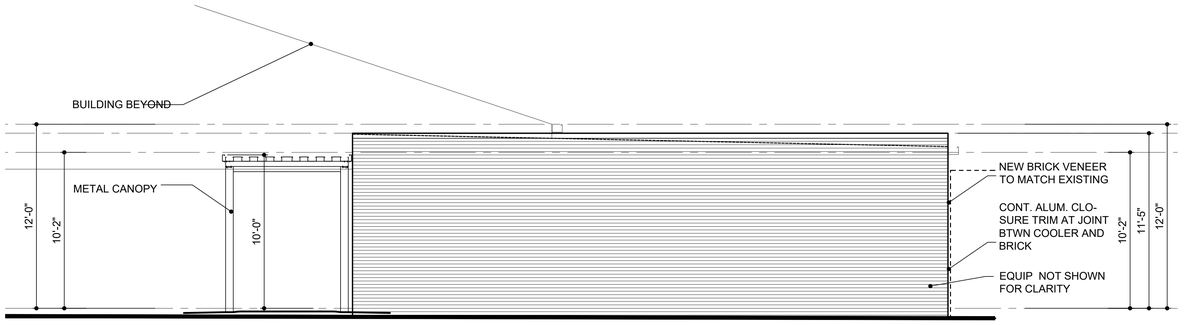
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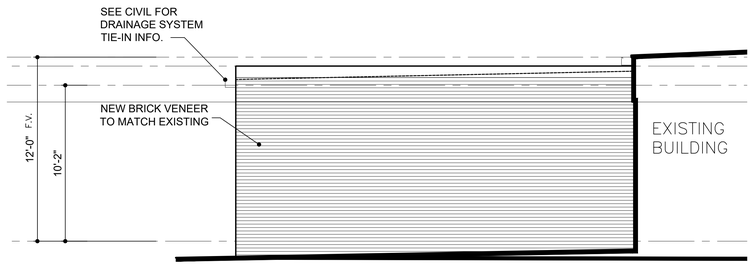
#	DESC	DATE

FLOOR PLAN - CLASSROOM ADDITION

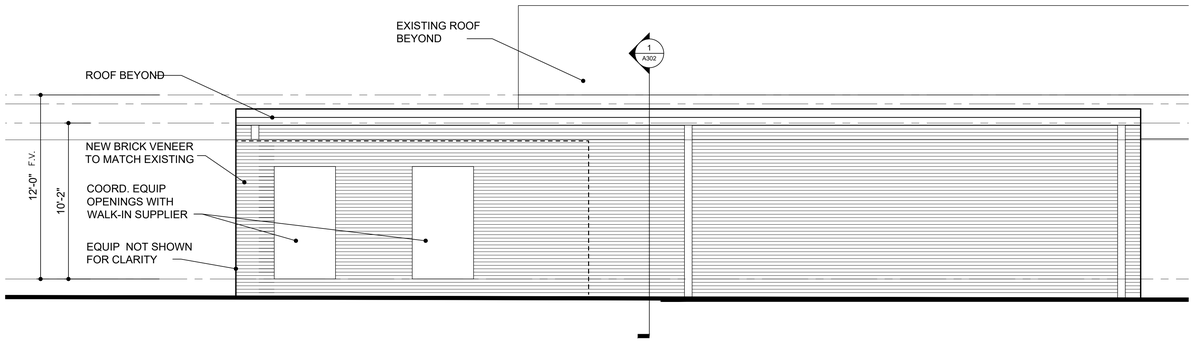
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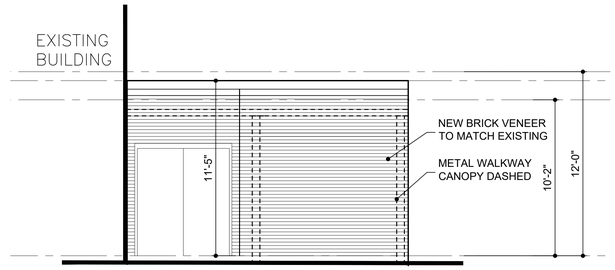
8 ELEVATION
1/4"=1'-0"



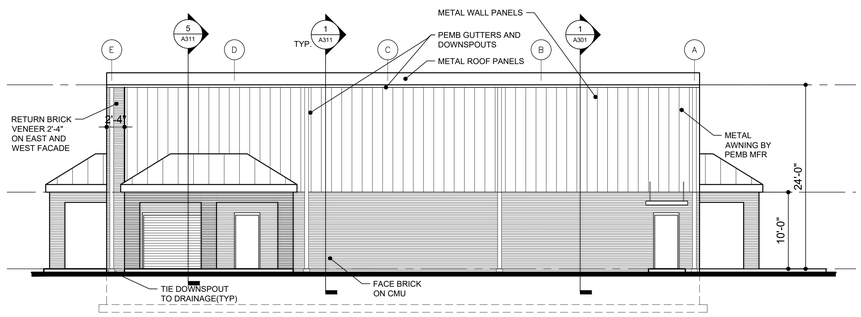
7 ELEVATION
1/4"=1'-0"



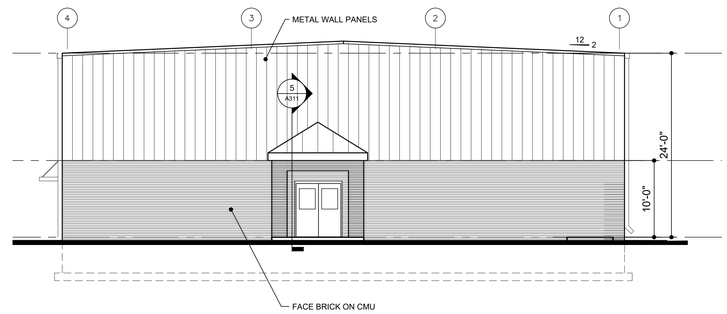
6 ELEVATION
1/4"=1'-0"



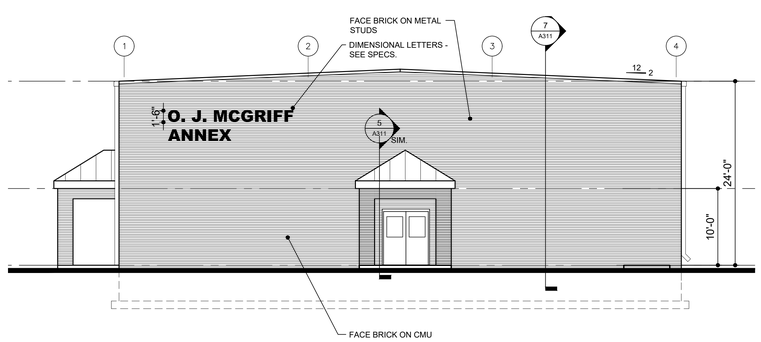
5 ELEVATION
1/4"=1'-0"



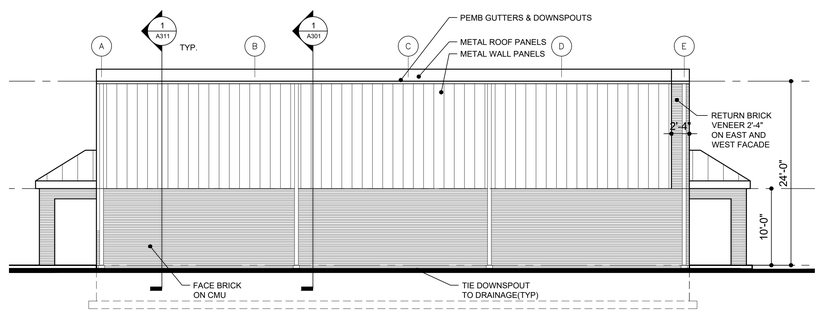
4 ELEVATION
1/8"=1'-0"



3 ELEVATION
1/8"=1'-0"



2 ELEVATION
1/8"=1'-0"



1 ELEVATION
1/8"=1'-0"

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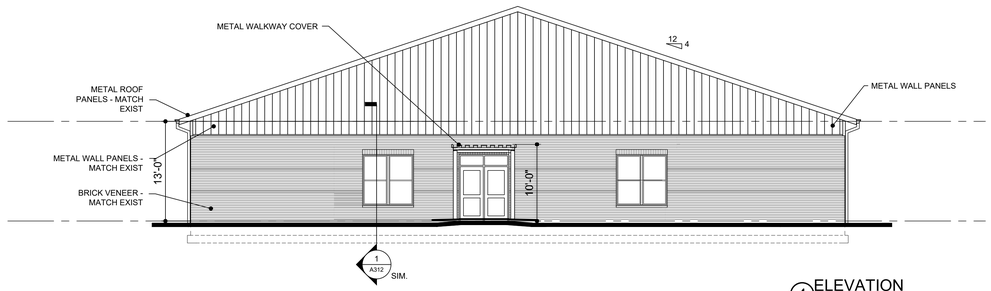
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PROJ NO: 25-060

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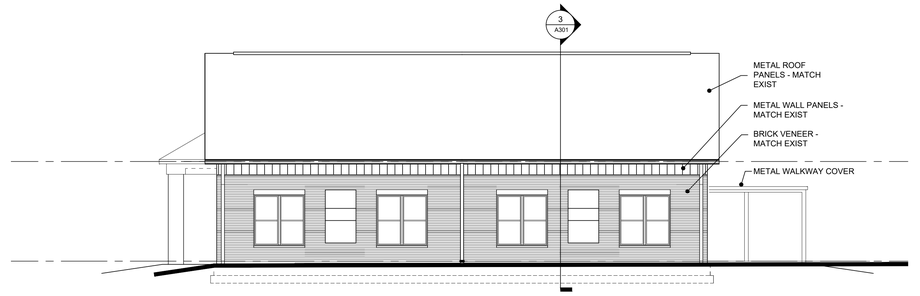
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EXTERIOR ELEVATIONS

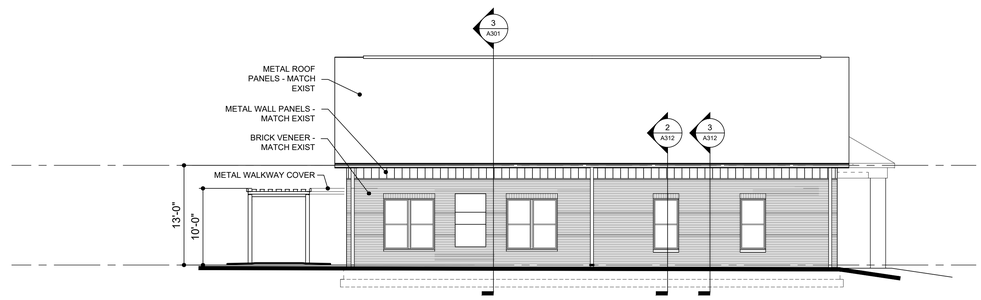
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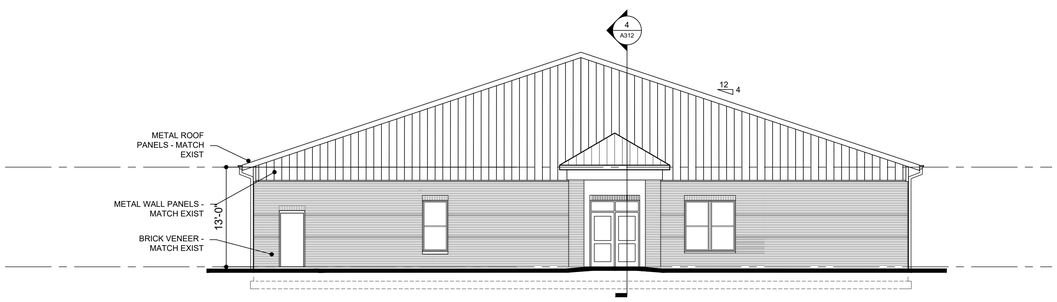
4 ELEVATION
1/8"=1'-0"



3 ELEVATION
1/8"=1'-0"



2 ELEVATION
1/8"=1'-0"



1 ELEVATION
1/8"=1'-0"

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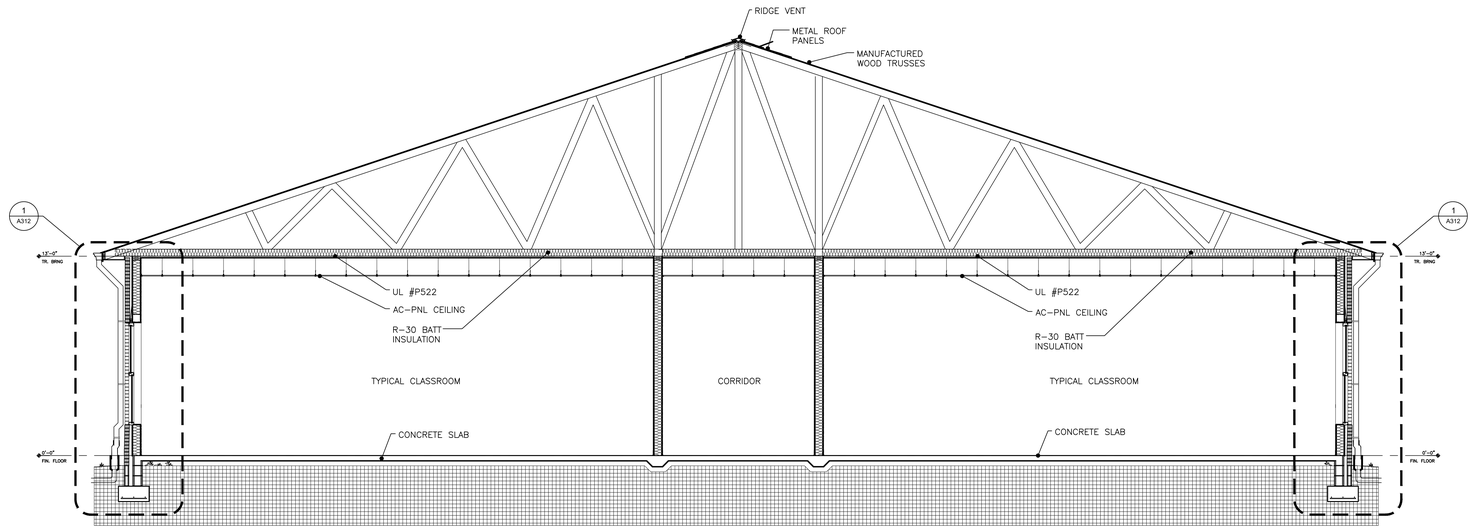
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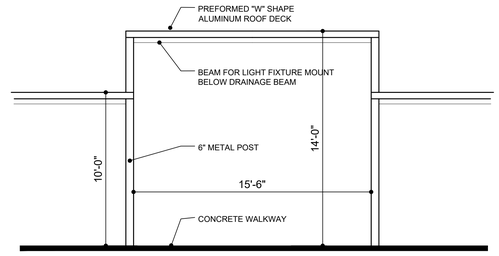
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EXTERIOR ELEVATIONS

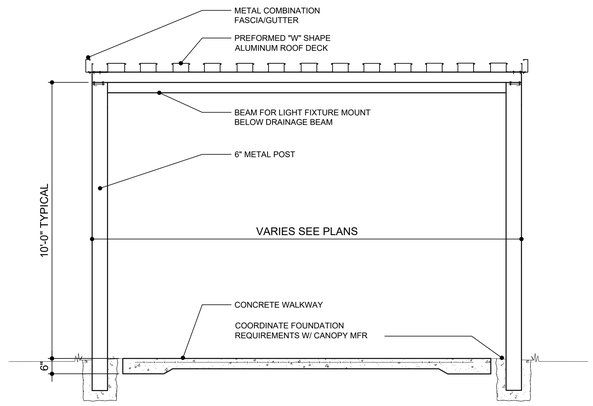
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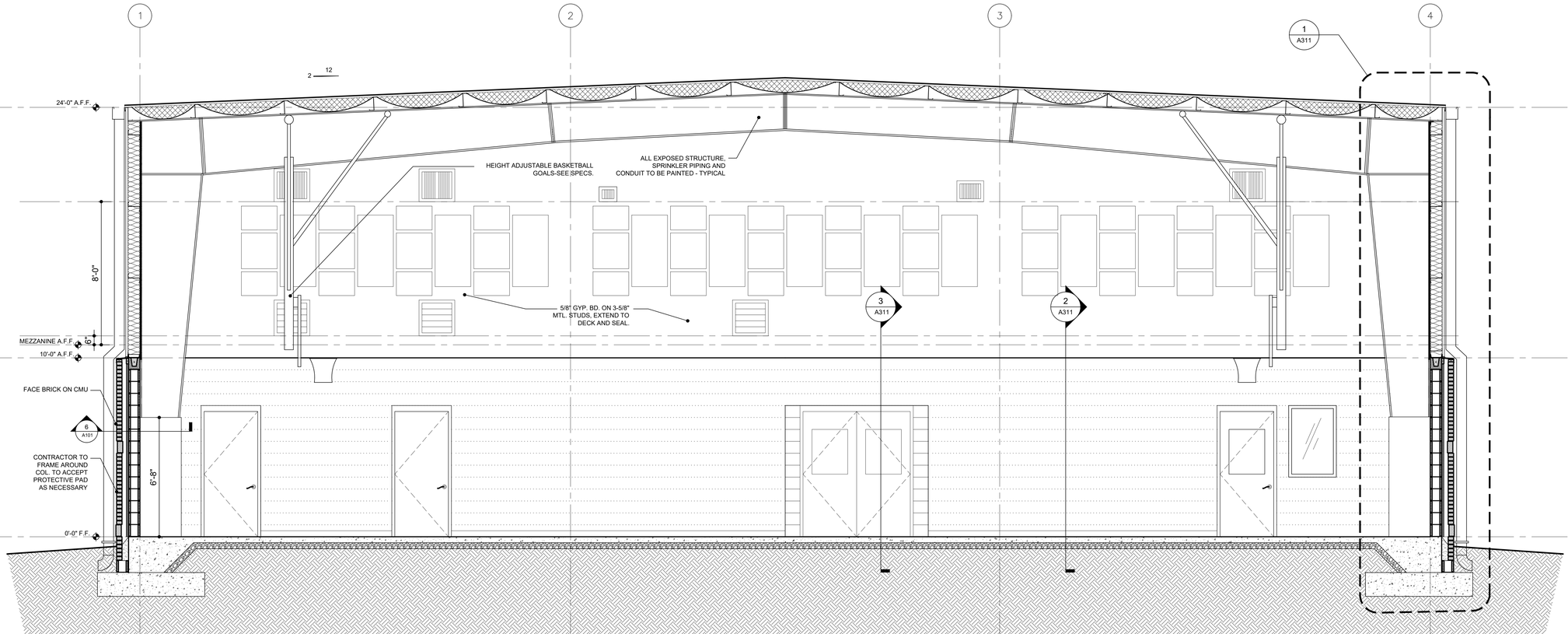
3 BUILDING SECTION
1/4"=1'-0"



4 CANOPY ELEVATION
1/4"=1'-0"



2 CANOPY SECTION
3/8"=1'-0"



1 BUILDING SECTION
3/8"=1'-0"

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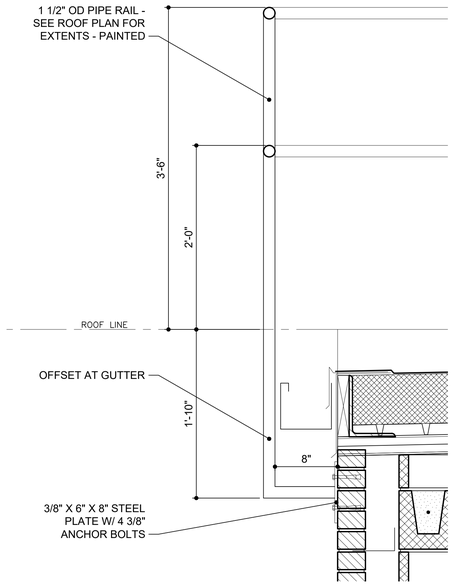
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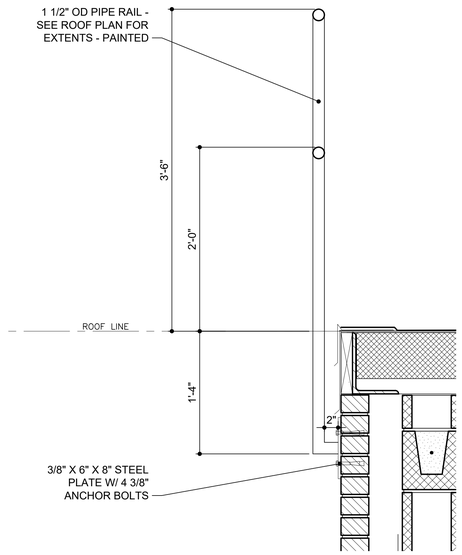
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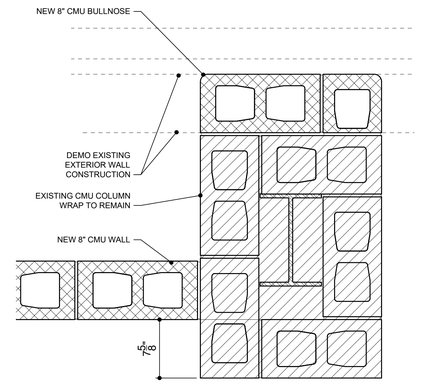
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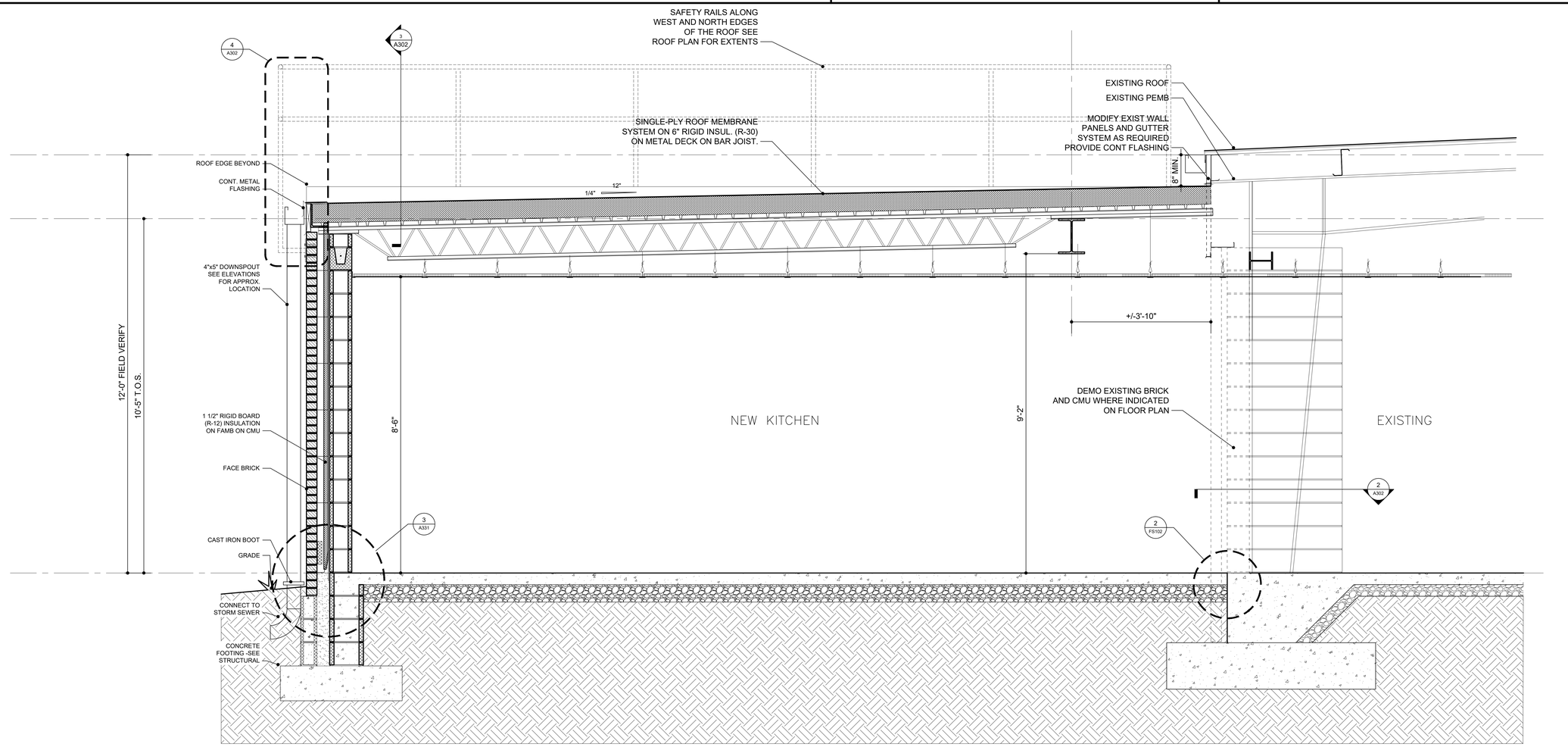
4 DETAIL
1 1/2""=1'-0"



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



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



1 BUILDING SECTION
3/4"=1'-0"

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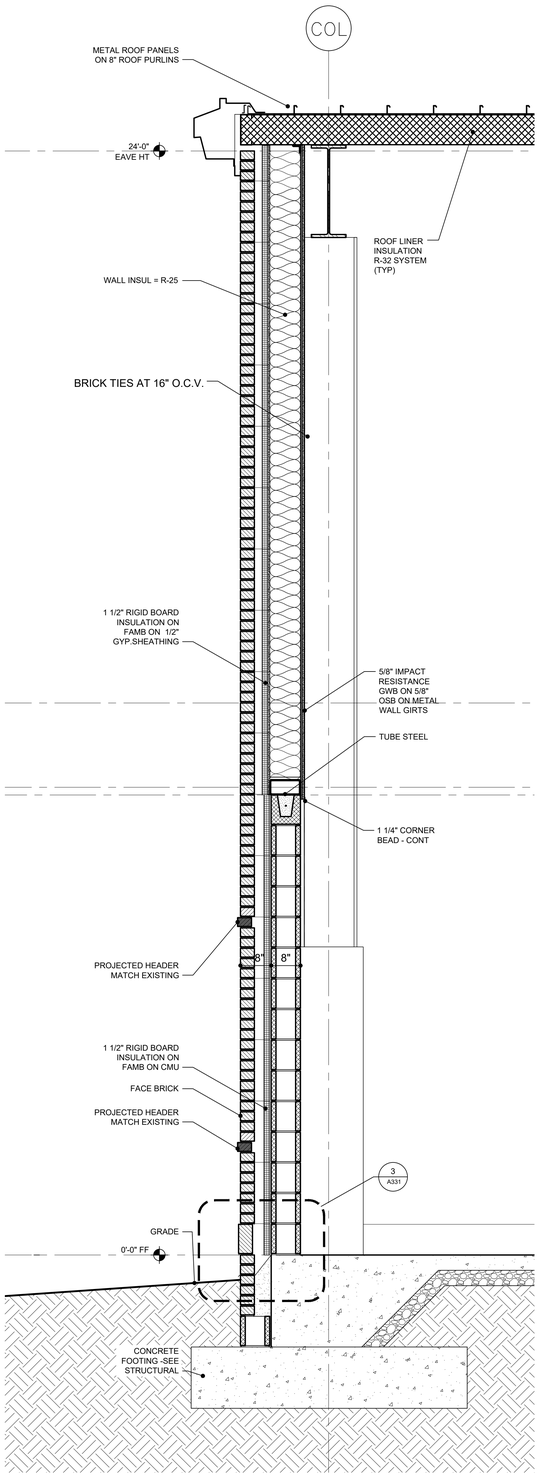
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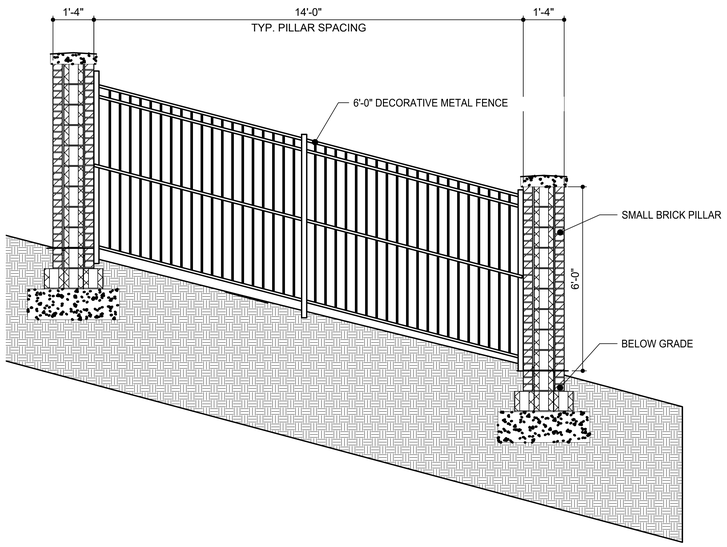
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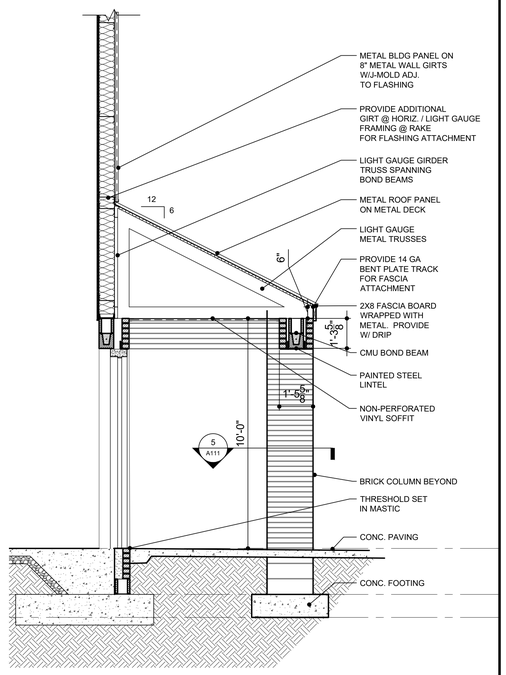
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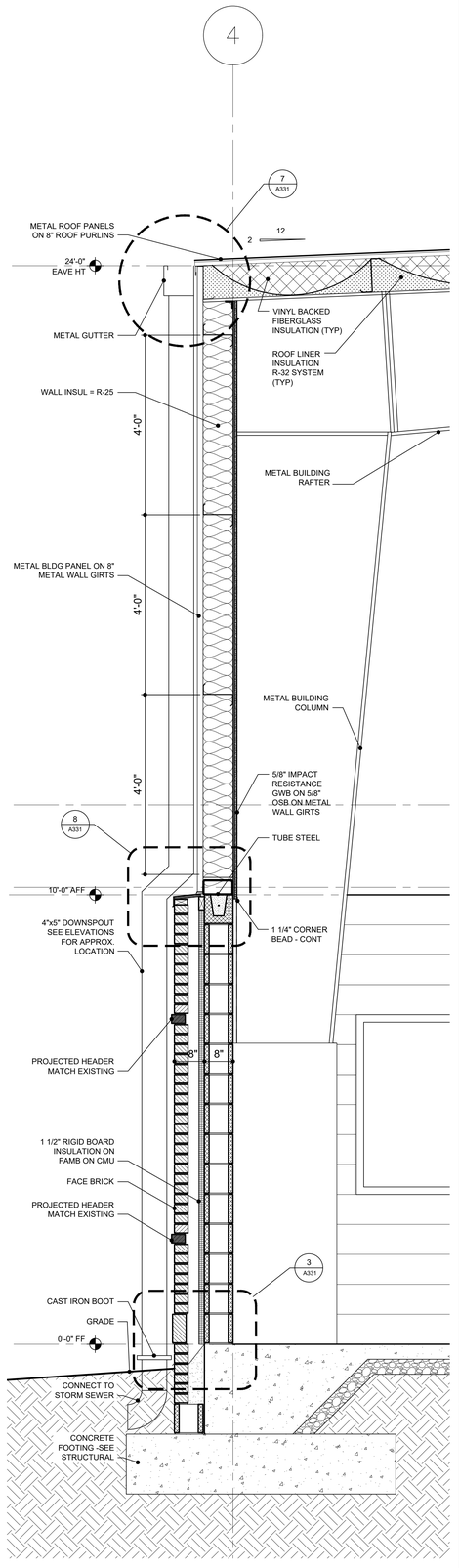
7 WALL SECTION
3/4"=1'-0"



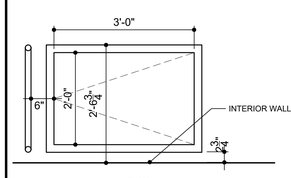
6 FENCE DETAIL
1/2"=1'-0"

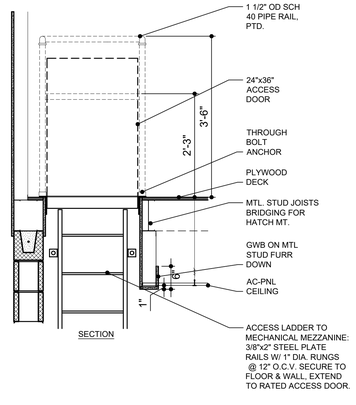


5 WALL SECTION
3/8"=1'-0"

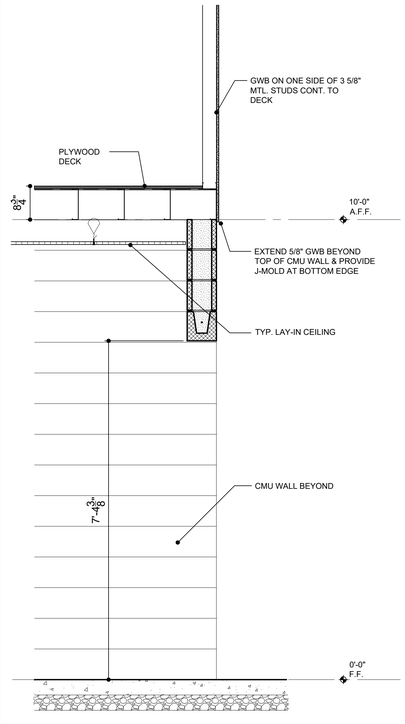


1 WALL SECTION
3/4"=1'-0"

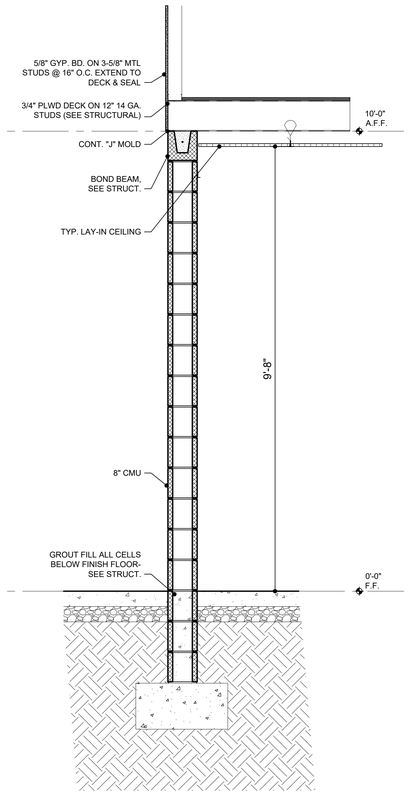




4 ACCESS DOOR DETAILS
3/4"=1'-0"



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



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

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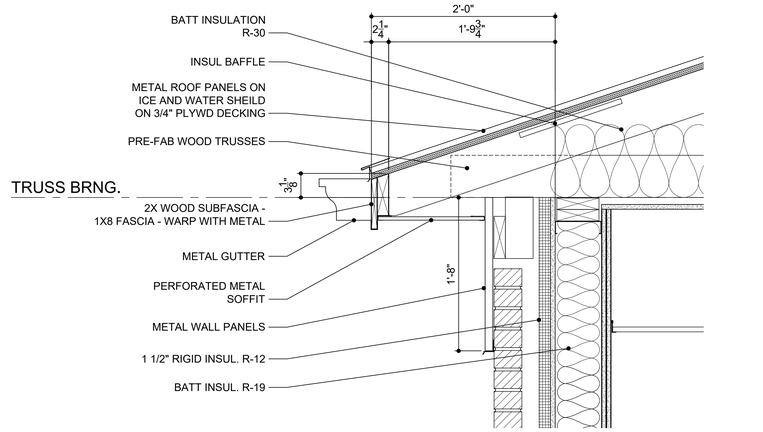
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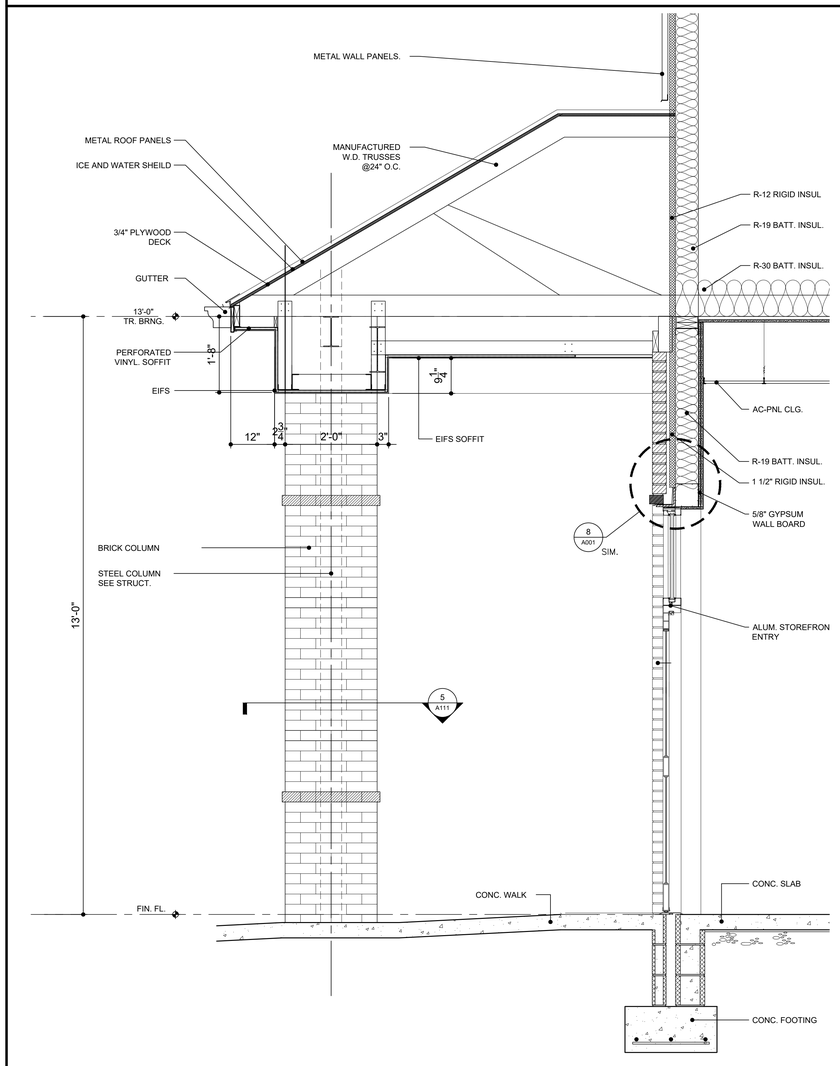
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WALL SECTIONS

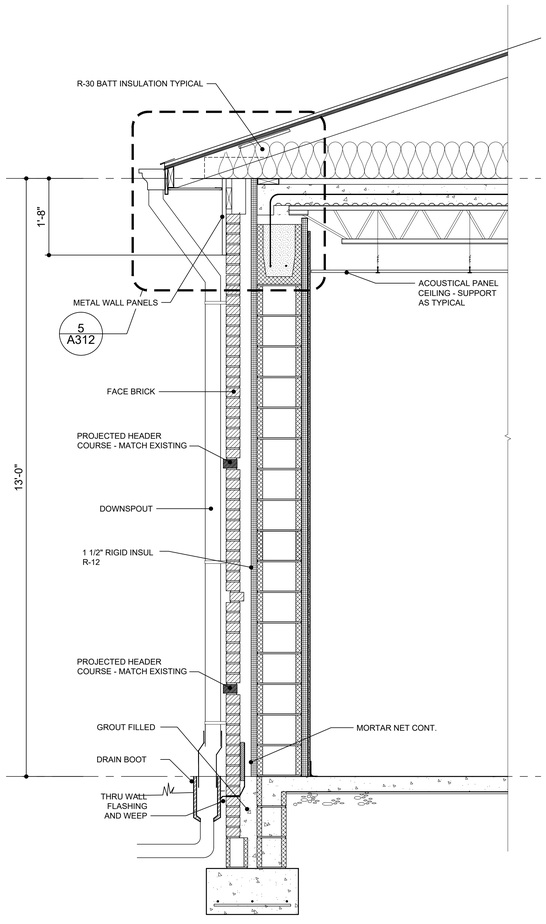
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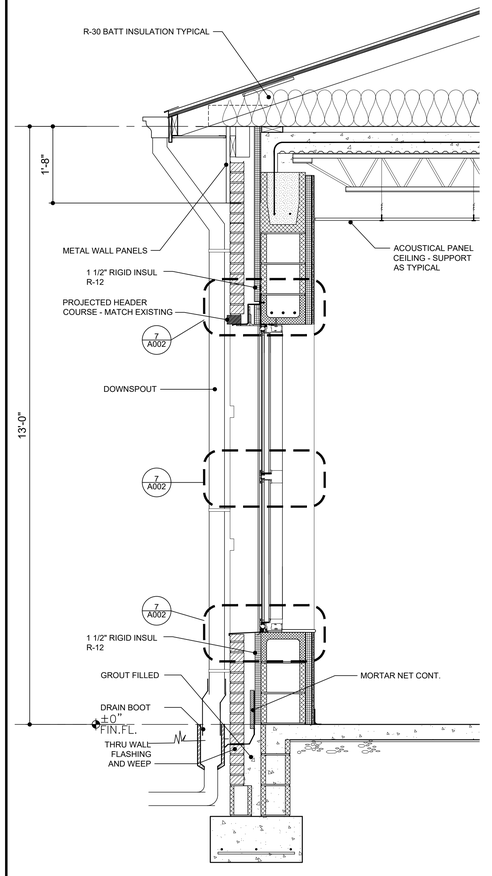
5 TYPICAL EAVE
1 1/2""=1'-0"



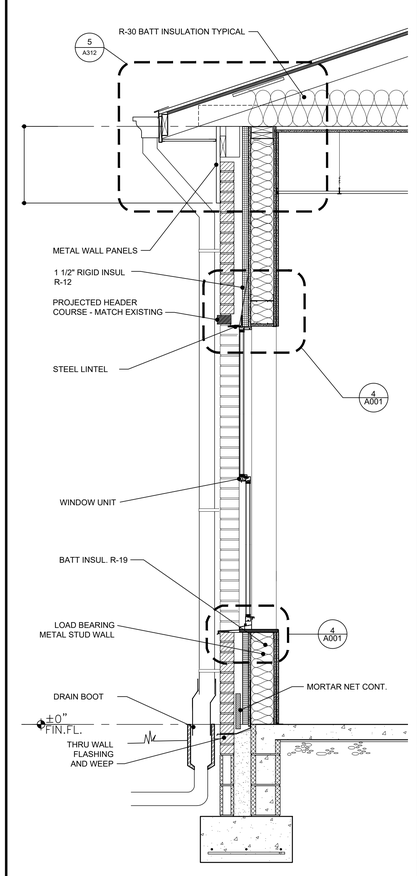
4 ENTRANCE SECTION
3/4"=1'-0"



3 STORM SHELTER SECTION
3/4"=1'-0"



2 SHELTER WINDOW SECTION
3/4"=1'-0"



1 TYPICAL WINDOW SECTION
3/4"=1'-0"

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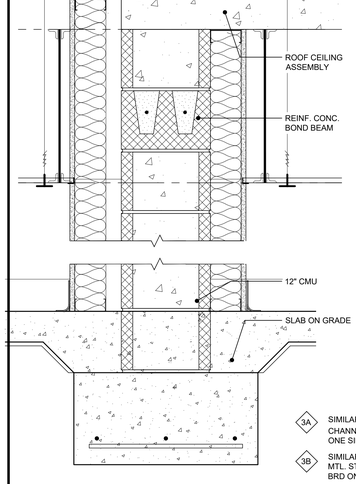
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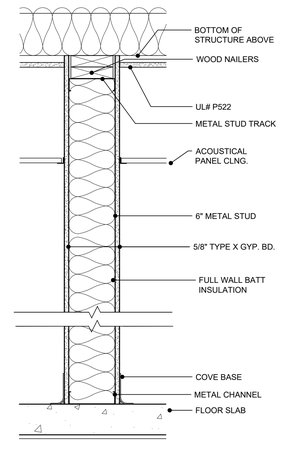
A312



NOTE: SHELTER WALL IS 2 HR RATED EQUAL TO UL#906

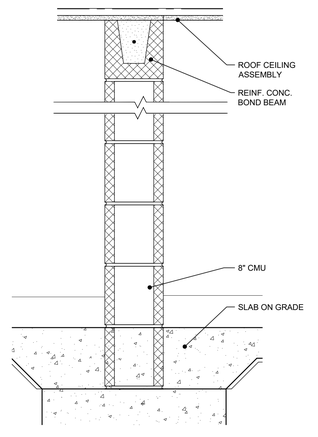
5 WALL TYPE 3 - 12" CMU BEARING WALL

0 4" 8" 1'-4"
SCALE: 1 1/2" = 1'-0"



2 INT. WALL TYPE 2

0 4" 8" 1'-4"
SCALE: 1 1/2" = 1'-0"



TYPICAL WALL AS SHOWN

4 WALL TYPE 1 - CMU

0 4" 8" 1'-4"
SCALE: 1 1/2" = 1'-0"

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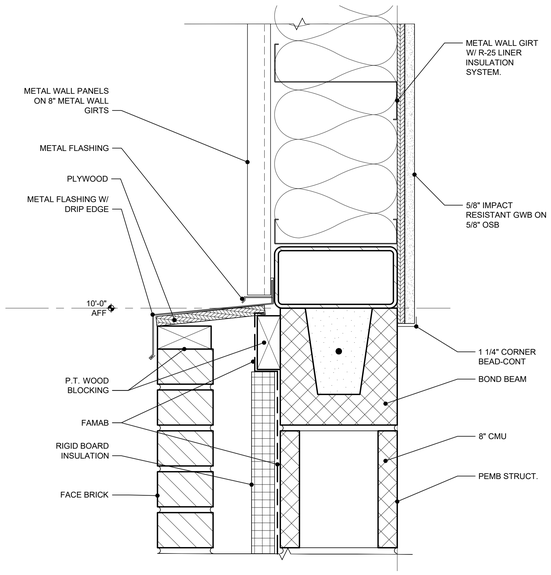
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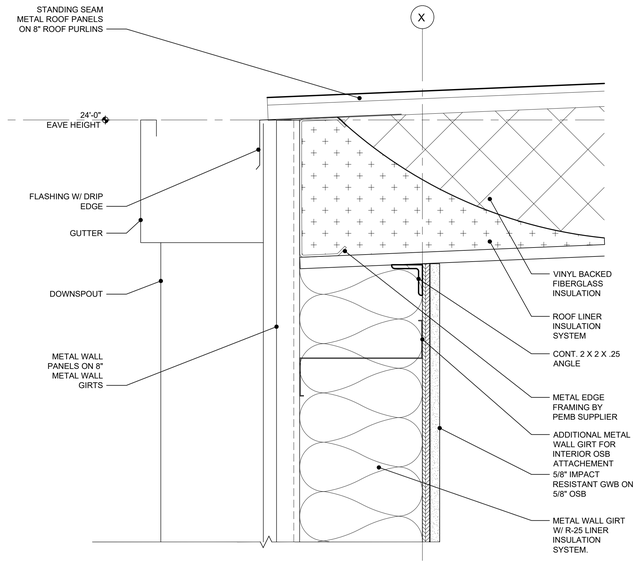
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WALL PARTITION TYPES

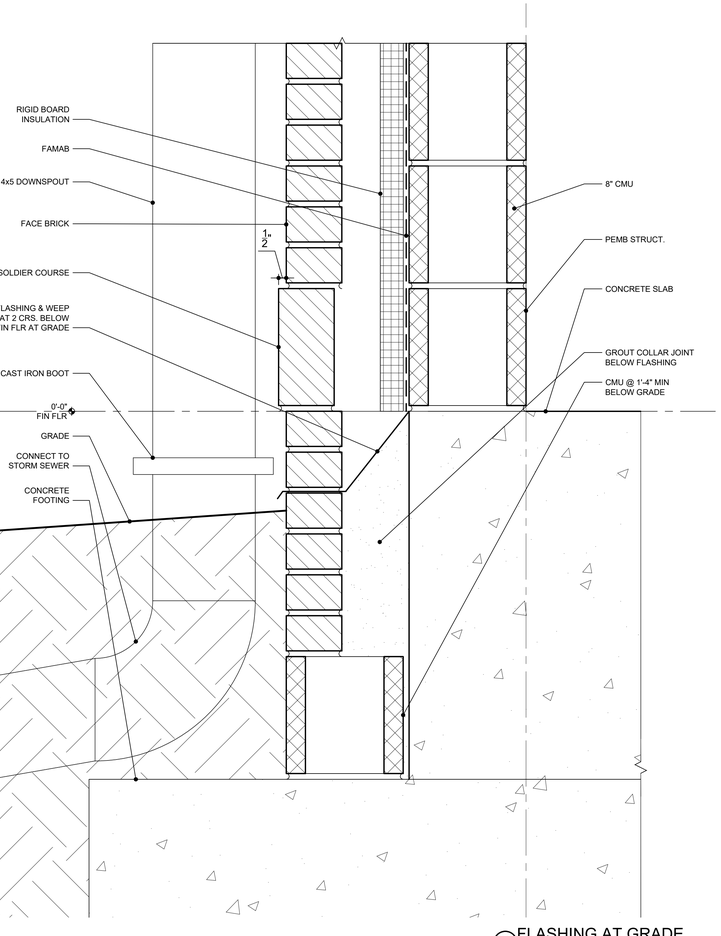
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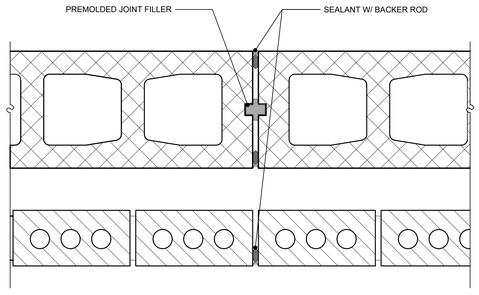
8 TRANSITION DETAIL
3"=1'-0"



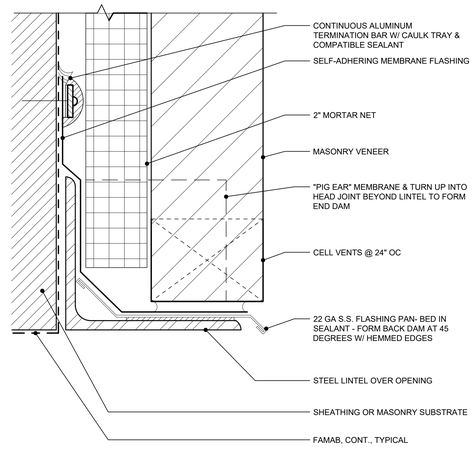
7 EAVE DETAIL
3"=1'-0"



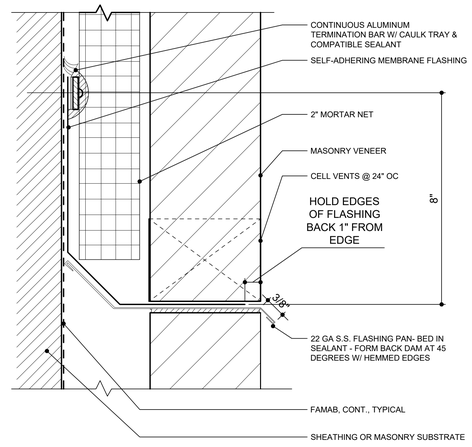
3 FLASHING AT GRADE
3"=1'-0"



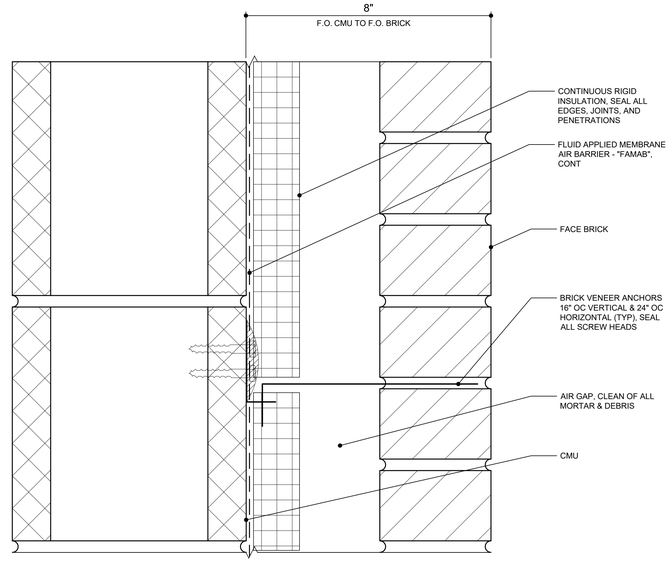
5 TYPICAL CONTROL JOINT
3"=1'-0"



2 FLASHING AT OPENING HEAD
6"=1'-0"



4 FLASHING DETAIL
6"=1'-0"



NOTE: DRAWING EXPANDED FOR CLARITY

1 DETAIL
6"=1'-0"

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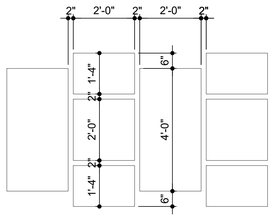
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PROJ NO: 25-060

REVISIONS

#	DESC	DATE

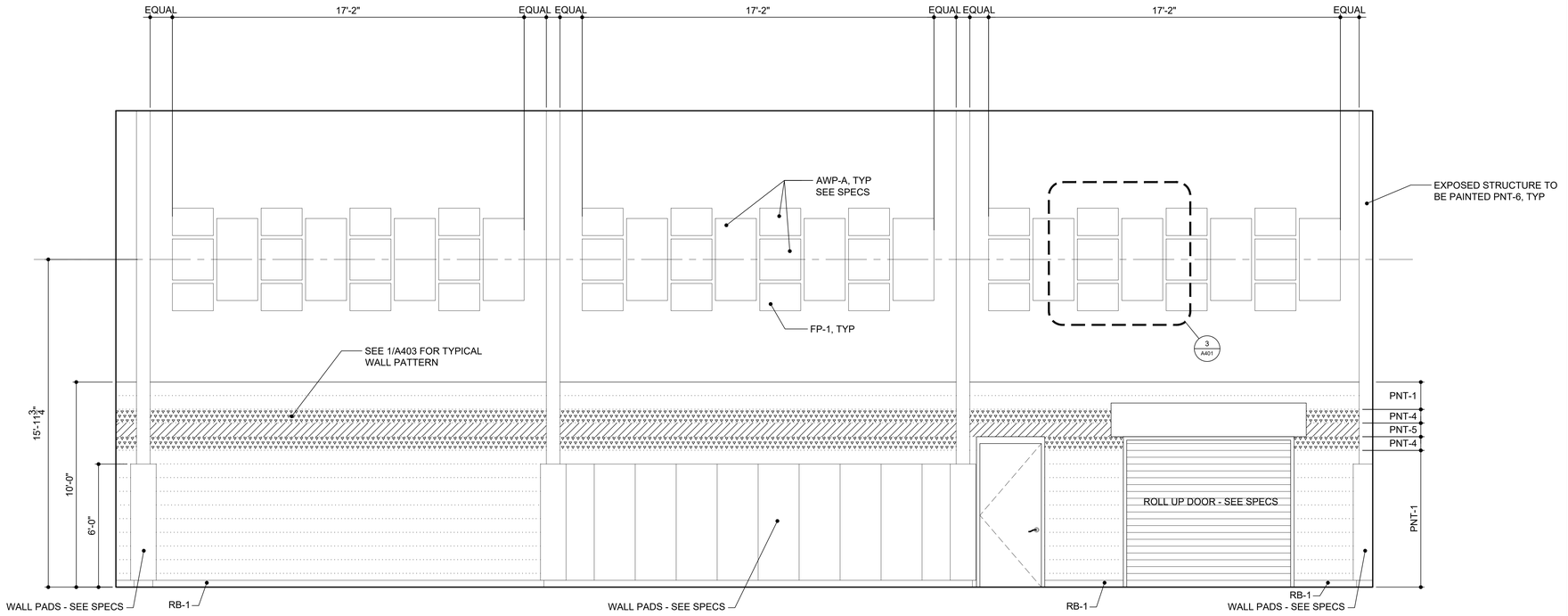
DETAILS

A331

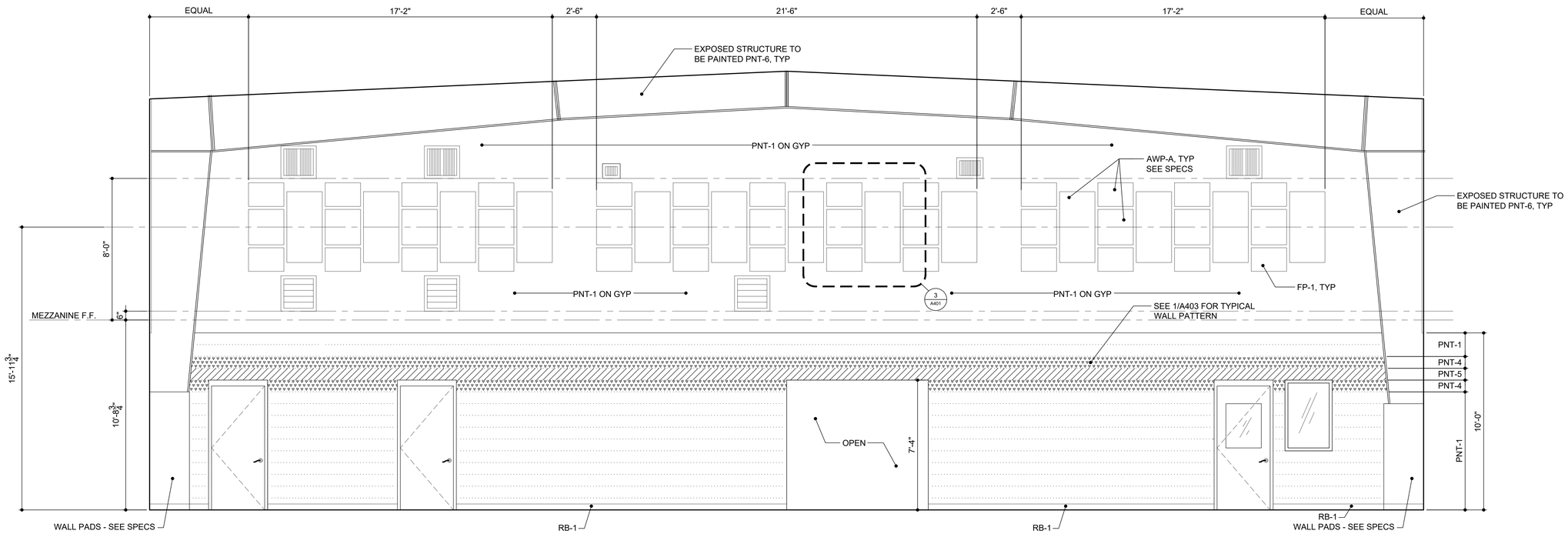


TYPICAL - ALL PANELS TO BE TYPE AWP-A WITH FP-1 FABRIC

3 TYPICAL ACOUSTICAL WALL PANEL LAYOUT
1/2" = 1'-0"



2 1101 GYM - EAST
3/8" = 1'-0"



1 1101 GYM - NORTH
3/8" = 1'-0"

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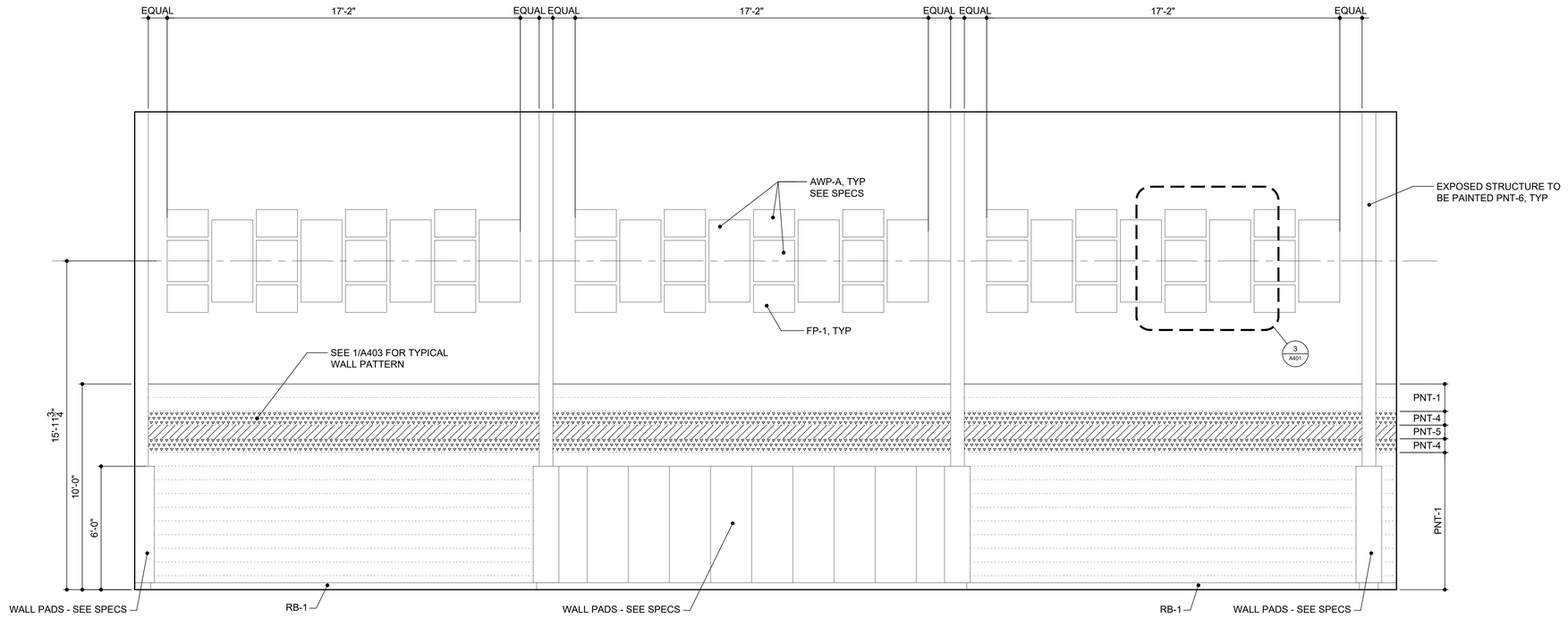
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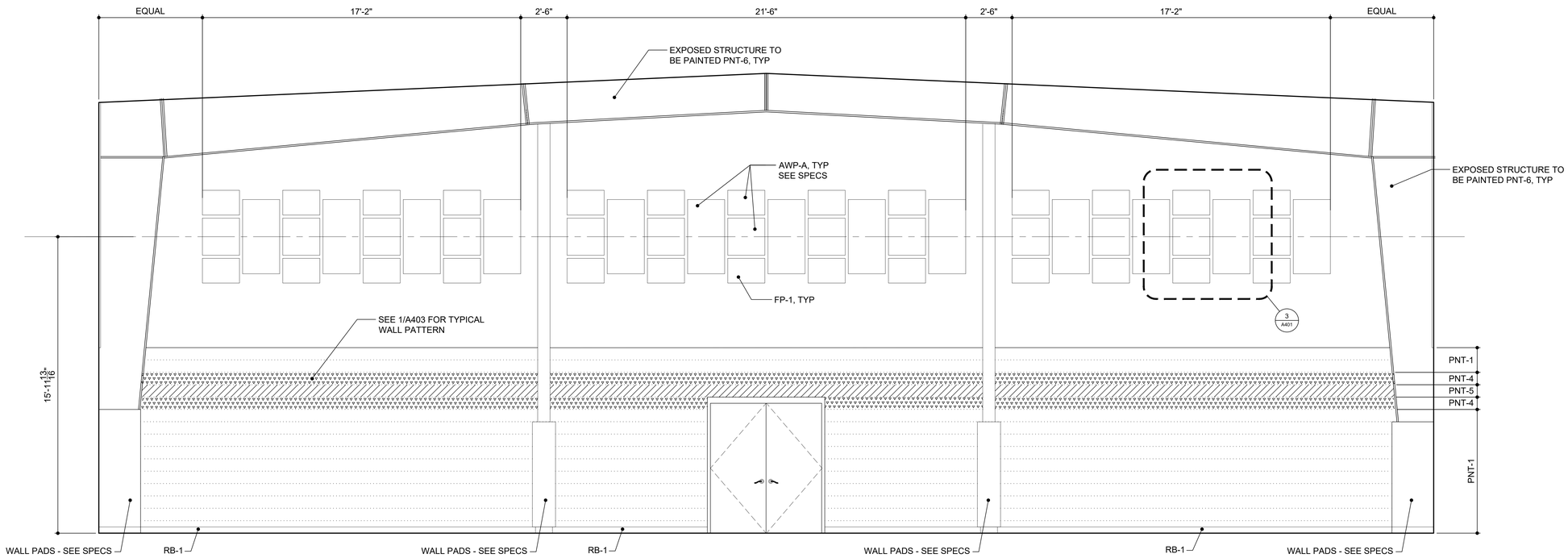
#	DESC	DATE

INTERIOR ELEVATIONS

A401



2 1101 GYM - WEST
3/8" = 1'-0"



1 1101 GYM - SOUTH
3/8" = 1'-0"

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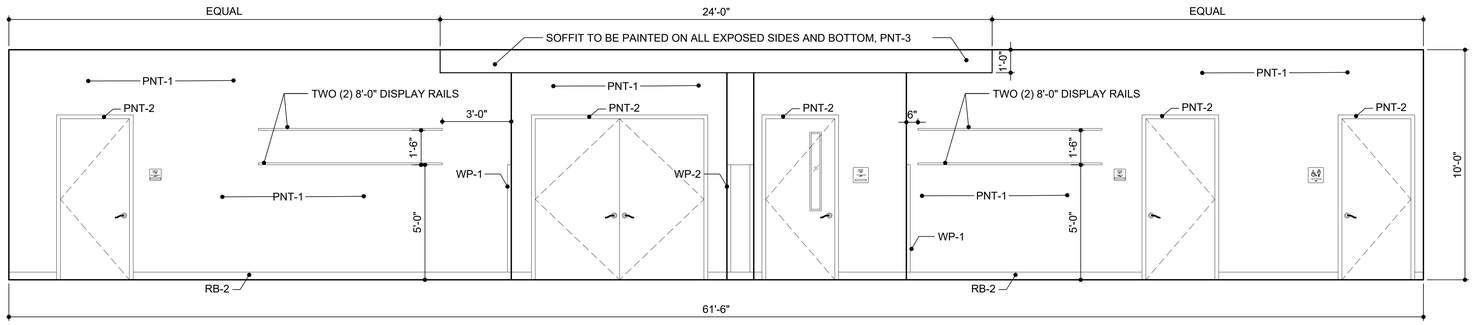
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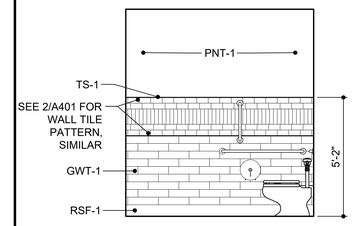
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INTERIOR
ELEVATIONS

A402



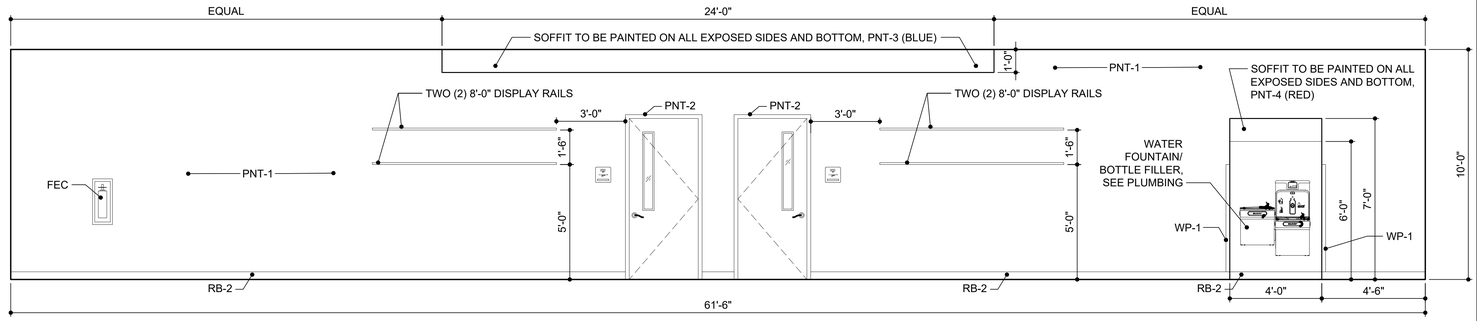
12 1123 CORRIDOR - SOUTH
3/8" = 1'-0"



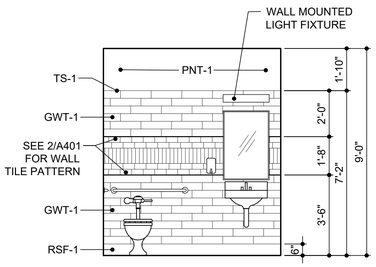
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS.

NOTE: TILE WAINSCOT SHOWN APPLIES TO TOILET 1122 (NORTH, SOUTH AND EAST WALLS) TOILET 1126 (NORTH, SOUTH AND EAST WALLS), TOILET 1128 (NORTH, SOUTH AND WEST WALLS) & TOILET 1131 (NORTH, SOUTH AND WEST WALLS).

11 1122 TOILET - SOUTH
3/8" = 1'-0"

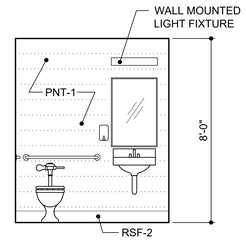


10 1123 CORRIDOR - NORTH
3/8" = 1'-0"



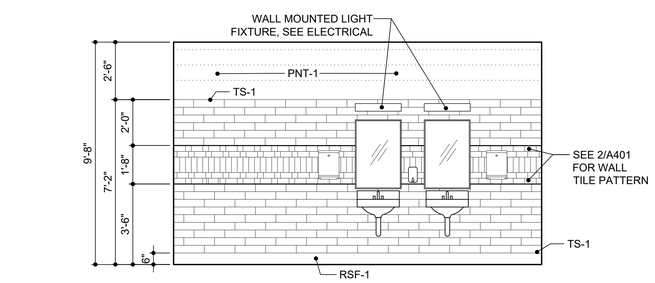
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS.

9 1122 TOILET - WEST
3/8" = 1'-0"



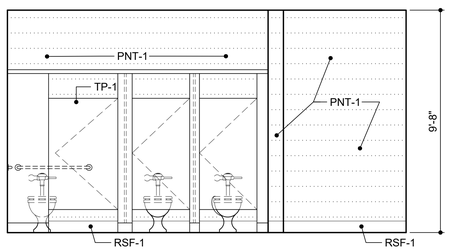
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS.

8 1116 TOILET - EAST
3/8" = 1'-0"



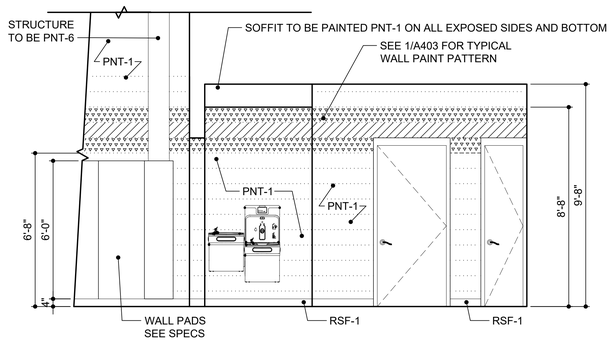
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS.

7 1108 GIRLS - SOUTH
3/8" = 1'-0"

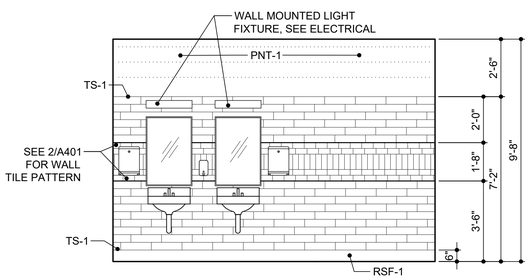


NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS.

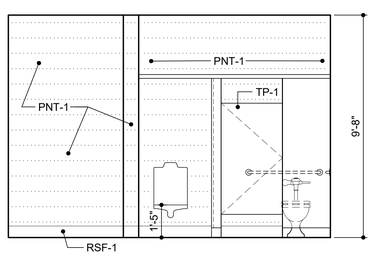
6 1108 GIRLS - NORTH
3/8" = 1'-0"



5 1106 CORRIDOR - WEST
3/8" = 1'-0"



4 1105 BOYS - SOUTH
3/8" = 1'-0"



NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS. ADA URINAL 17" HIGH TO RIM & 13.5" DEEP, TYP

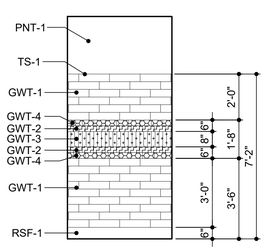
3 1105 BOYS - NORTH
3/8" = 1'-0"

GWT-1 GLAZED WALL TILE
DALTILE
COLOR: DESERT GRAY X114
SIZE: 4" X 16"

GWT-2 GLAZED WALL TILE (BLUE)
TRINITY TILE
COLOR: DENIM
SIZE: 3" X 6"

GWT-3 GLAZED WALL TILE (RED)
DALTILE
COLOR: CURRANT
SIZE: 2" X 8"

GWT-4 GLAZED WALL TILE (WHITE)
DALTILE
COLOR: ARCTIC WHITE 0190
SIZE: 3" X 6"



2 TYPICAL WALL TILE PATTERN
3/8" = 1'-0"

PNT-1 GENERAL PAINT COLOR
SHERWIN WILLIAMS
7065 ARGOS

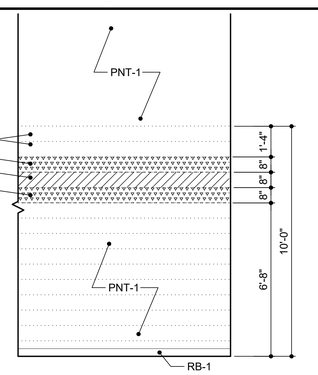
PNT-2 TRIM PAINT COLOR
SHERWIN WILLIAMS
7067 CITYSCAPE
SEMI-GLOSS

PNT-3 ACCENT PAINT COLOR (BLUE)
SHERWIN WILLIAMS
9684 AZURE TIDE

PNT-4 ACCENT PAINT COLOR (RED)
BENJAMIN MOORE
2086-10 EXOTIC RED

PNT-5 ACCENT PAINT COLOR (WHITE)
SHERWIN WILLIAMS
7005 PURE WHITE

PNT-6 EXPOSED STRUCTURE PAINT COLOR
SHERWIN WILLIAMS
7068 GRIZZLE GRAY



NOTE: PAINT PATTERN LOCATED ON ALL WALLS IN 1101 GYM AND 1106 CORRIDOR.

1 1101 GYM - TYP PAINT PATTERN
3/8" = 1'-0"

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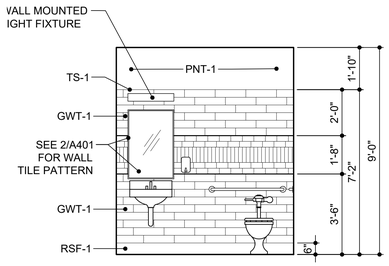
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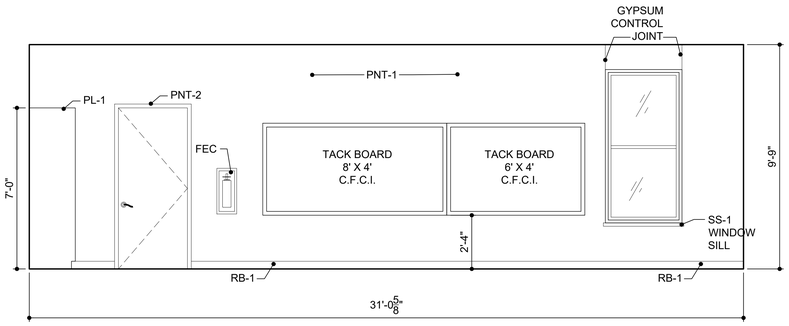
INTERIOR ELEVATIONS

A403

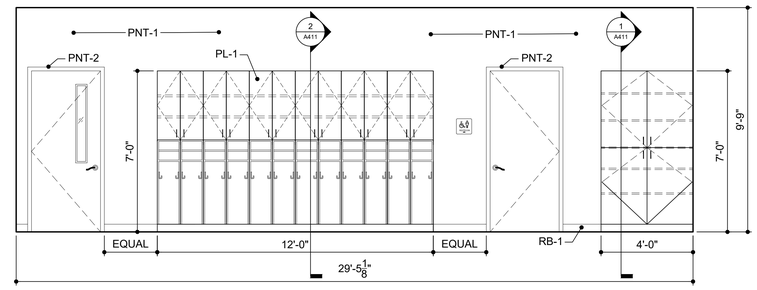


NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS.

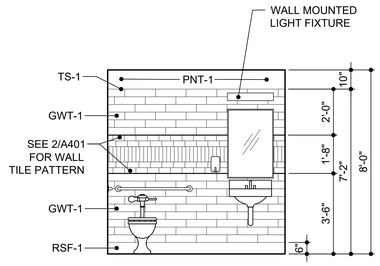
10 1131 TOILET - EAST
3/8" = 1'-0"



9 1130 CLASSROOM - EAST
3/8" = 1'-0"

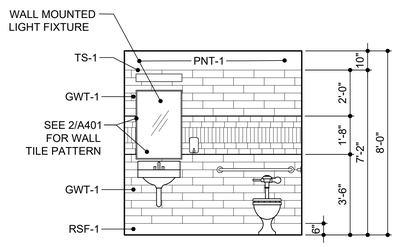


8 1130 CLASSROOM - NORTH
3/8" = 1'-0"



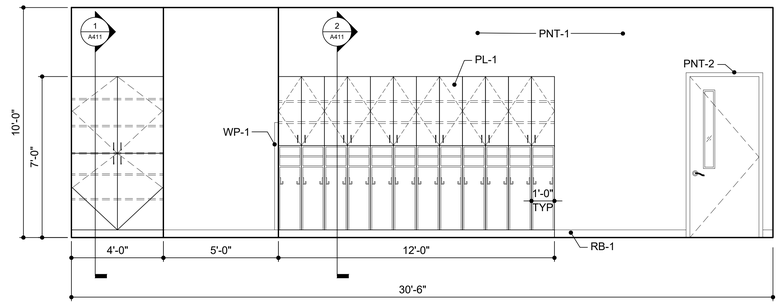
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS.

7 1128 TOILET - EAST
3/8" = 1'-0"

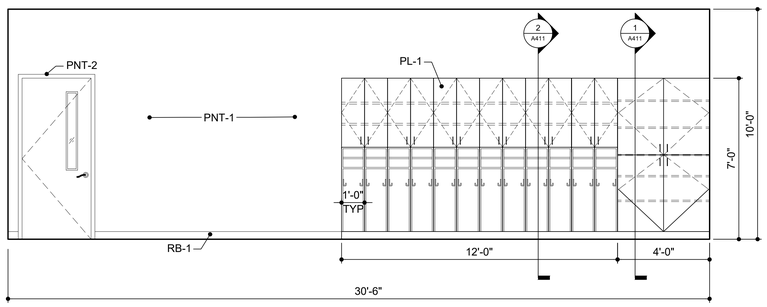


NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS.

6 1126 TOILET - WEST
3/8" = 1'-0"

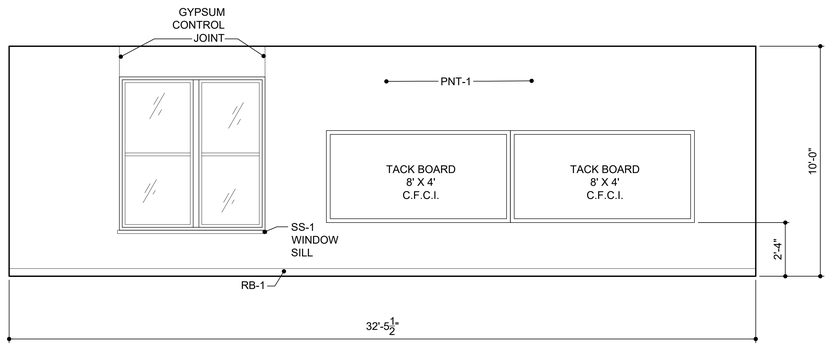


5 1125 CLASSROOM - SOUTH
3/8" = 1'-0"



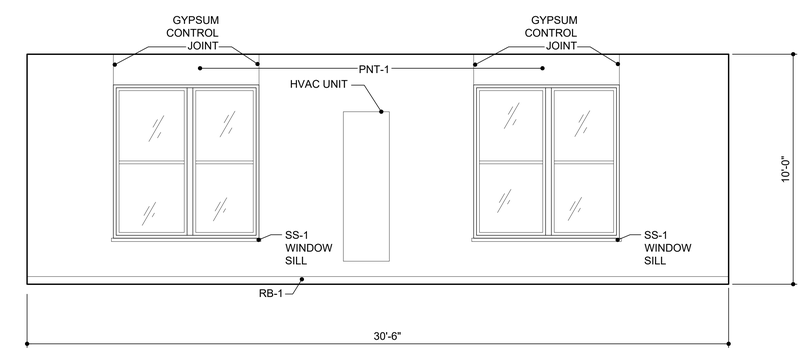
TYPICAL FOR 1120 CLASSROOM (OPP) AND 1124 CLASSROOM

4 1124 TYPICAL CLASSROOM - SOUTH
3/8" = 1'-0"

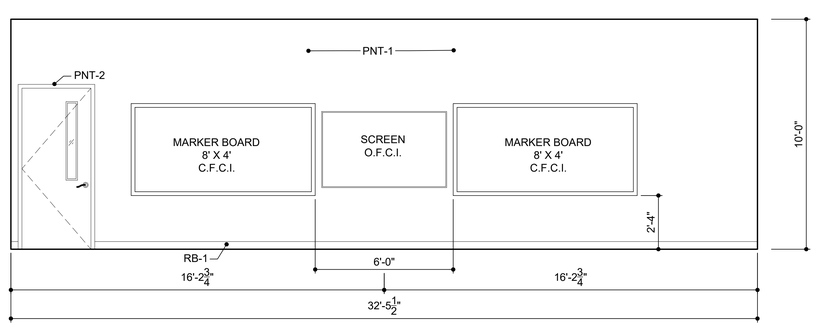


TYPICAL FOR 1120 CLASSROOM (OPP),1124 CLASSROOM AND 1125 CLASSROOM (OPP)

3 1124 TYPICAL CLASSROOM - WEST
3/8" = 1'-0"



2 1124 TYPICAL CLASSROOM - NORTH
3/8" = 1'-0"



1 1124 TYPICAL CLASSROOM - EAST
3/8" = 1'-0"

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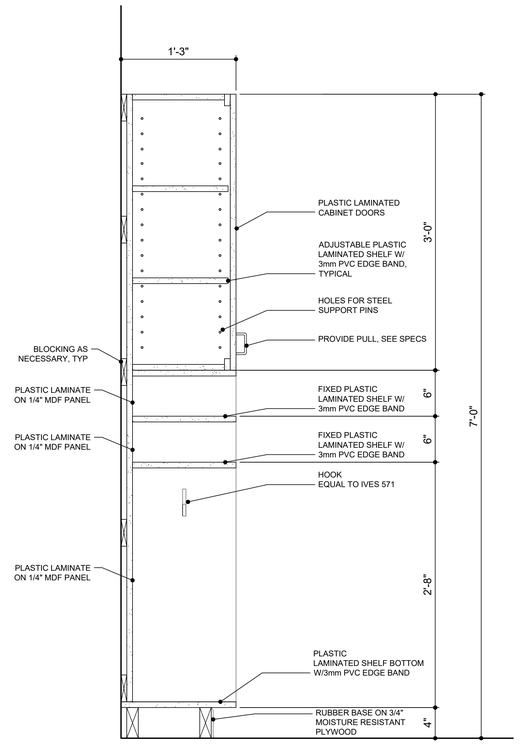
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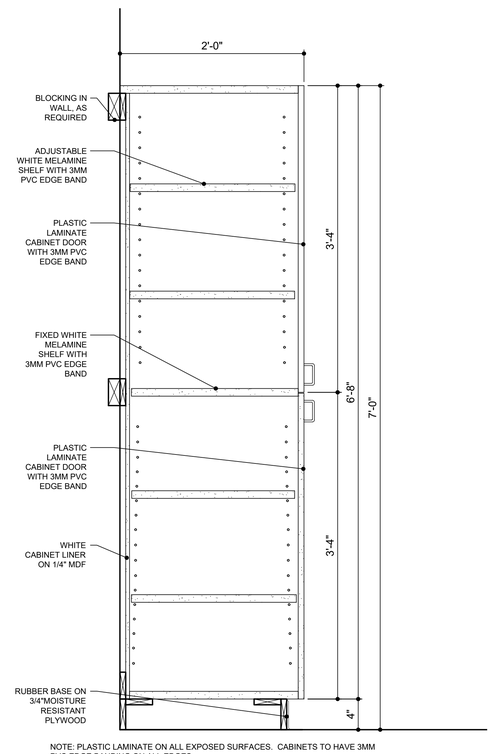
INTERIOR
ELEVATIONS

A404



NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES. CABINETS TO HAVE 3MM PVC EDGE BANDING ON ALL EDGES.

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



NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES. CABINETS TO HAVE 3MM PVC EDGE BANDING ON ALL EDGES.

1 SECTION - STORAGE CABINET
1 1/2" = 1'-0"

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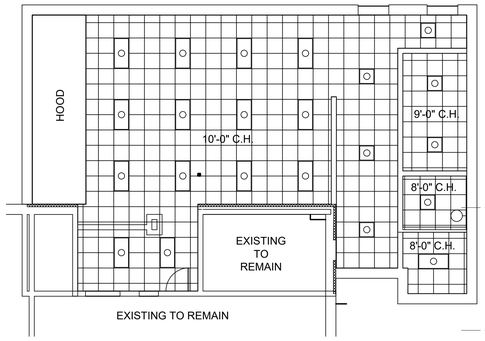
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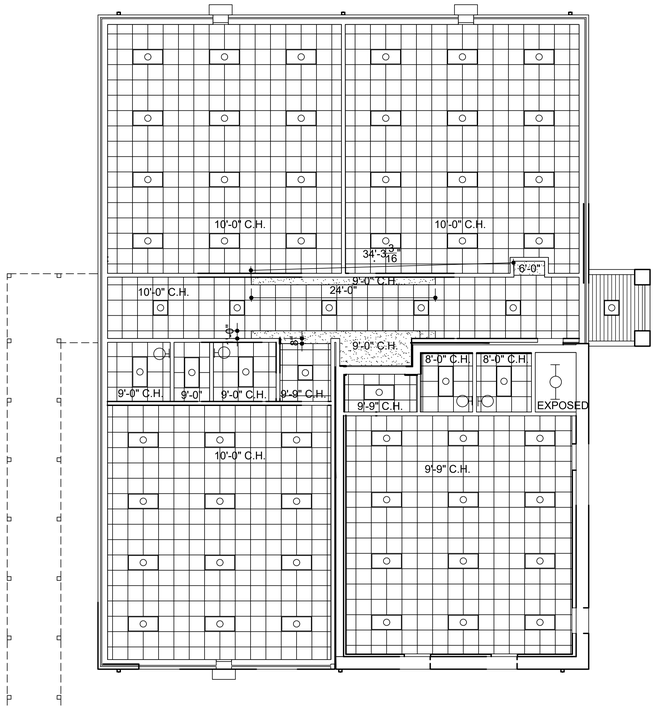
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MILLWORK SECTIONS

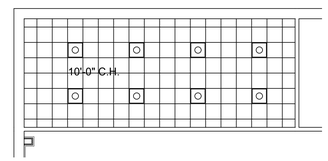
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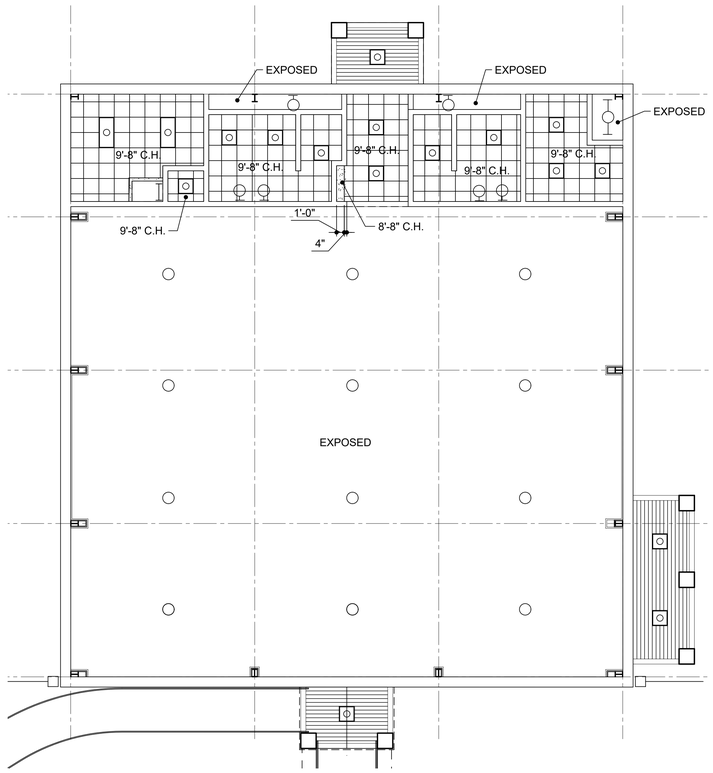
4 KITCHEN - REFECTED CEILING PLAN
1/8"=1'-0"



2 CLASSROOM - REFECTED CEILING PLAN
1/8"=1'-0"



3 MEZZANINE - REFECTED CEILING PLAN
1/8"=1'-0"



1 ACTIVITY BUILDING - REFECTED CEILING PLAN
1/8"=1'-0"

CEILING LEGEND

- 2x2 LAY-IN CEILING
- GYP. BD. CEILING
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- 2x4 FLUOR. LIGHT
- FLUOR. LIGHT FIXTURE
- EXIT LIGHT
- RECESSED LIGHT
- SURFACE MOUNTED LIGHT

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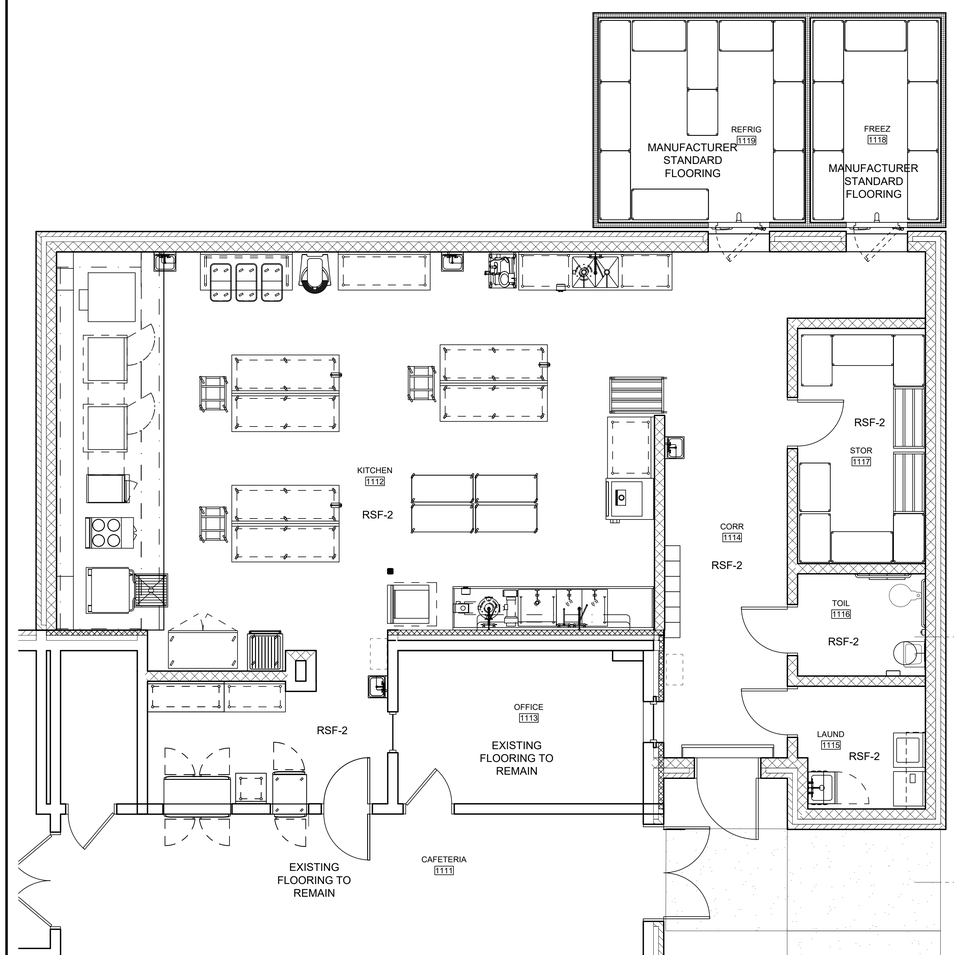
REVISIONS		
#	DESC	DATE

REFLECTED CEILING PLANS

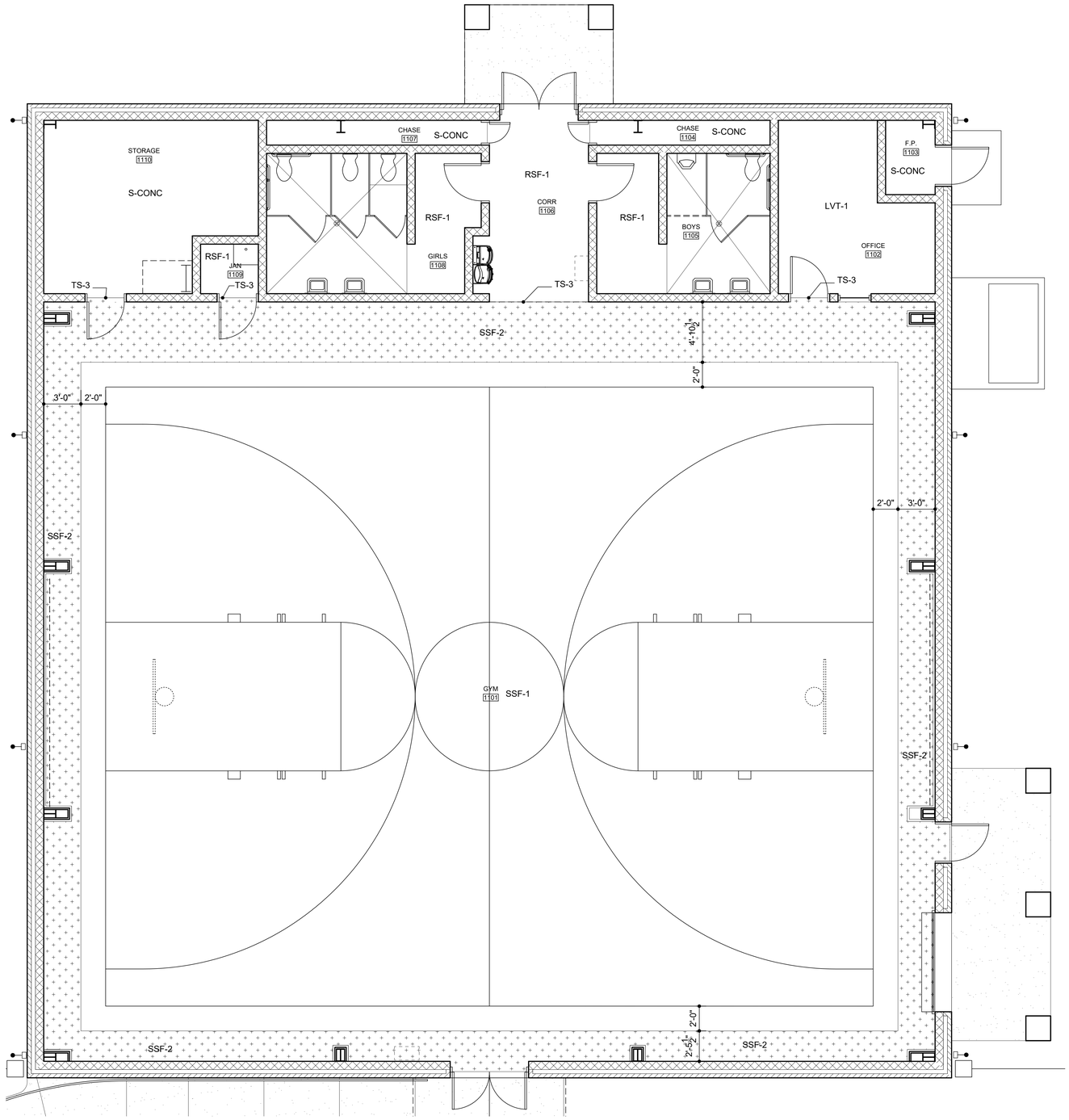
A501

LEGEND:

LVT-1	LUXURY VINYL TILE SHAW CONTRACT STYLE: KIND 4123V COLOR: SLATE 23520 SIZE: 23.62 IN X 23.62 IN INSTALLATION METHOD: ASHLAR	SSF-1	SYNTHETIC SPORTS FLOORING SYSTEM WITH GAMELINES ROBBINS SPORTS SURFACES PULASTIC SYNTHETIC SPORTS FLOOR SYSTEM CLASSIC 110 / WOODGRAIN COLOR: MAGIC MAPLE	TRANSITION STRIPS TS-3	METAL TRANSITION STRIP AT SYNTHETIC SPORTS FLOORING WESTERN WEATHERSEAL CP412-1.5" 1 1/2 WIDE ALUMINUM THRESHOLD
RSF-1	RESINOUS FLOORING WITH 6" COVE BASE SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING RESUFLOR DECO FLAKE - 1/4" FLAKE COLOR: CUSTOM CS-398083-1CUS / CASE# 11398083	SSF-2	SYNTHETIC SPORTS FLOORING SYSTEM (BORDER) ROBBINS SPORTS SURFACES PULASTIC SYNTHETIC SPORTS FLOOR SYSTEM CLASSIC 110 COLOR: 506 DUSTY GRAY		
RSF-2	RESINOUS FLOORING WITH 6" COVE BASE SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING POLYCRETE SLB COLOR: SLATE GRAY	S-CONC	SEALED CONCRETE		



2 KITCHEN BLDG - FLOOR PATTERN PLAN
1/4" = 1'-0"



1 ACTIVITY BLDG - FLOOR PATTERN PLAN
1/4" = 1'-0"

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STATE OF ALABAMA
KEITH SCOTT
3529
REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

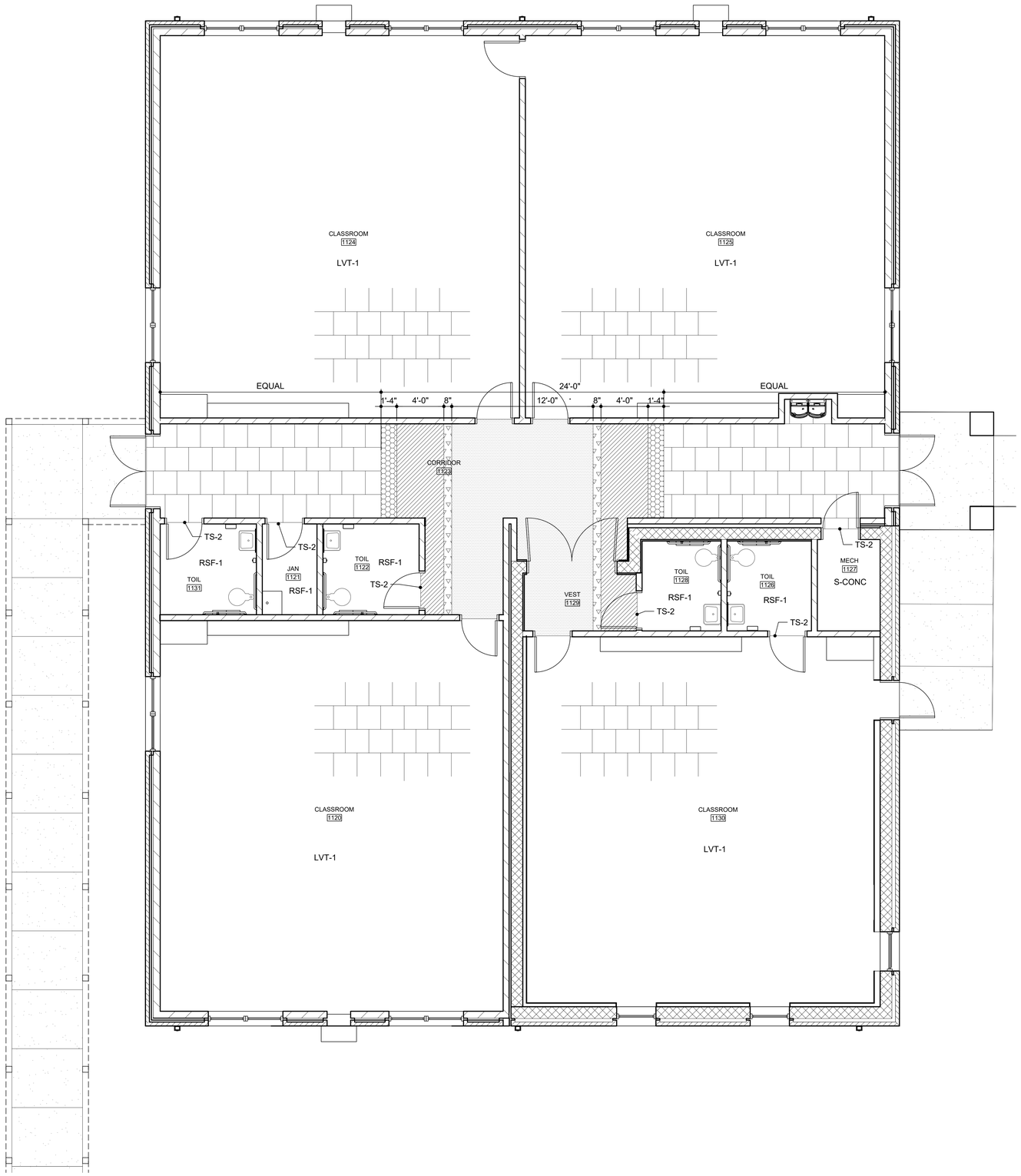
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PROJ NO: 25-060

REVISIONS

#	DESC	DATE

FLOOR PATTERN PLAN - ACTIVITY& KITCHEN BUILDINGS

A611



LEGEND:

	LVT-1	LUXURY VINYL TILE SHAW CONTRACT STYLE: KIND 4123V COLOR: SLATE 23520 SIZE: 23.62 IN X 23.62 IN INSTALLATION METHOD: ASHLAR
	LVT-2	LUXURY VINYL TILE (DK GRAY) SHAW CONTRACT STYLE: 4609V COLOR: VERSATILE 00595 SIZE: 7.75 IN X 48 IN
	LVT-3	LUXURY VINYL TILE (BLUE) SHAW CONTRACT STYLE: 4609V COLOR: VIVID BLUE 00420 SIZE: 7.75 IN X 48 IN
	LVT-4	LUXURY VINYL TILE (RED) SHAW CONTRACT STYLE: 4609V COLOR: ROSY RED 00870 SIZE: 7.75 IN X 48 IN
	LVT-5	LUXURY VINYL TILE (LT GRAY) SHAW CONTRACT STYLE: 4609V COLOR: CALM 00515 SIZE: 7.75 IN X 48 IN
	RSF-1	RESINOUS FLOORING WITH 6" COVE BASE SHERWIN WILLIAMS HIGH PERFORMANCE FLOORING RESUFLOR DECO FLAKE - 1/4" FLAKE COLOR: CUSTOM CS-398083-1CUS / CASE# 11398083
	S-CONC	SEALED CONCRETE

TRANSITION STRIPS

TS-2	LVT TO RESINOUS/CONCRETE FLOOR TRANSITION SCHLUTER SYSTEMS VINPRO-U FINISH: BRUSHED CHROME ANODIZED ALUMINUM (ACGB)

1 CLASSROOM ADDITION - FLOOR PATTERN PLAN
1/4" = 1'-0"

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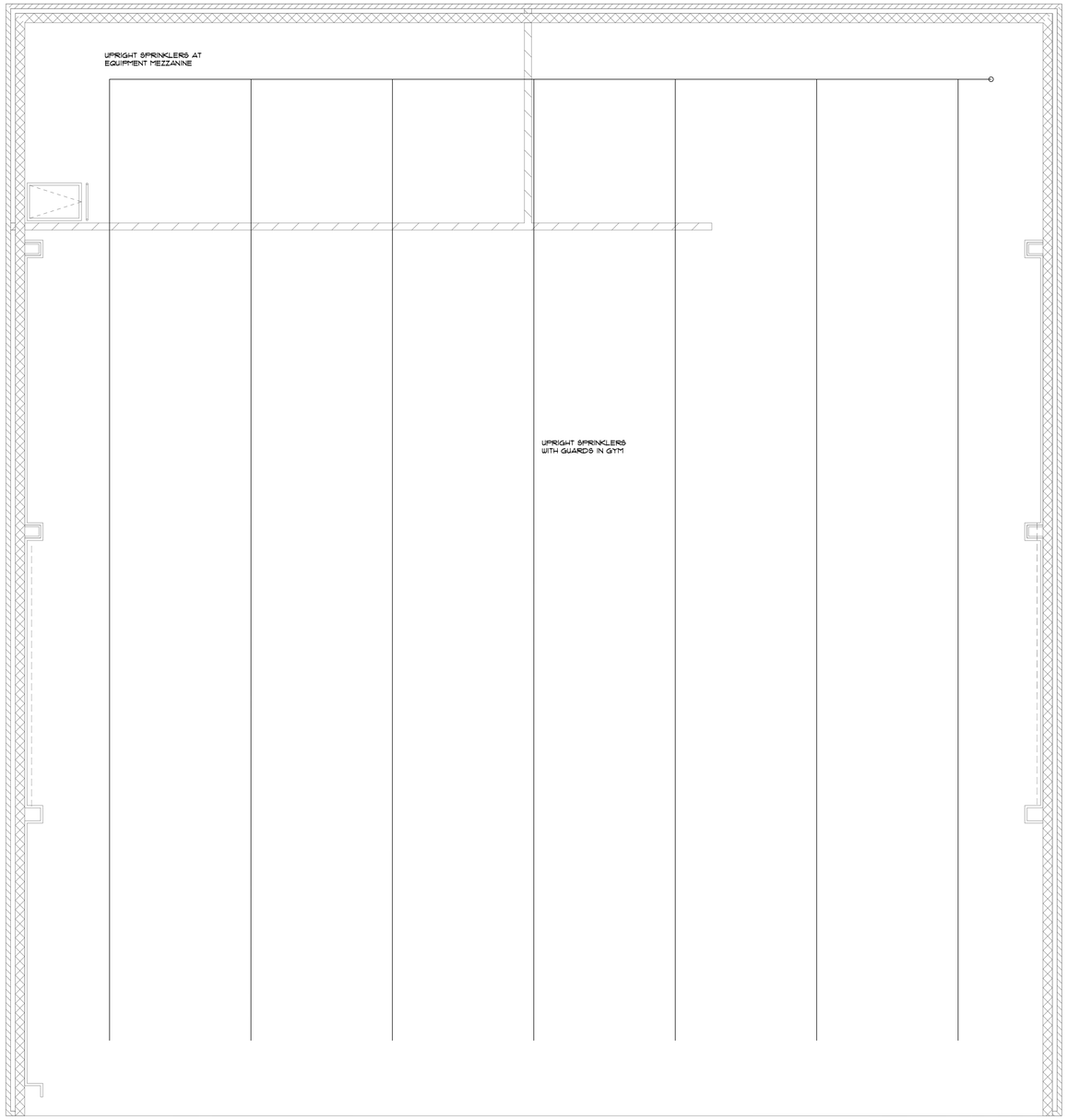
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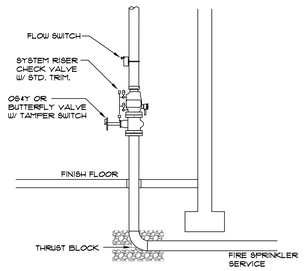
REVISIONS

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FLOOR PATTERN PLAN - CLASSROOM ADDITION

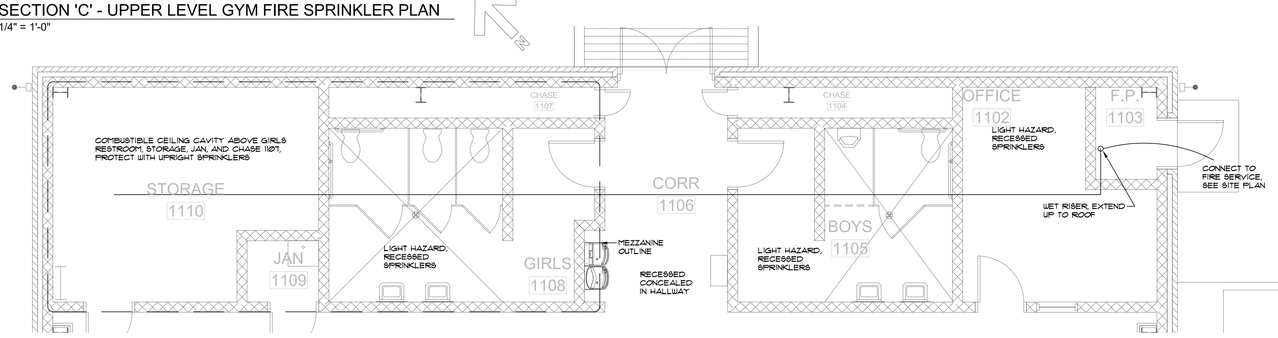
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4 FIRE SPRINKLER RISER
NOT TO SCALE

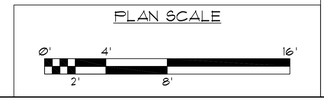
2 SECTION 'C' - UPPER LEVEL GYM FIRE SPRINKLER PLAN
1/4" = 1'-0"

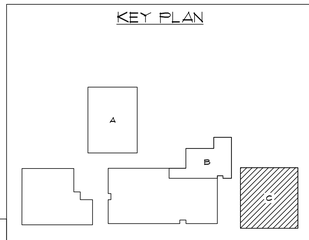


- CONTRACTOR TO DESIGN AND INSTALL AN AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT BUILDING.
- ALL WORK MUST CONFORM TO CURRENT NFPA 13 STANDARDS AND ALL STATE AND LOCAL FIRE MARSHALL CODES AND REQUIREMENTS.
- CONTRACTOR TO BE LICENSED BY STATE FIRE MARSHALS OFFICE
- SHOP DRAWINGS AND HYDRAULIC CALCULATIONS ARE TO BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER. APPROVED SHOP DRAWINGS TO BE SUBMITTED TO LOCAL AHJ AND FIRE OFFICIAL.
- SYSTEM SHALL BE HYDROSTATICALLY TESTED AS REQUIRED BY NFPA.
- SYSTEM PIPE SIZES ARE TO BE SELECTED TO PREVENT WATER VELOCITY IN ANY PIPE SECTION FROM EXCEEDING 20 FPS.
- FIRE SPRINKLER SHOP DRAWINGS TO BE COORDINATED WITH ALL OTHER TRADES. PRIORITY SHALL BE GIVEN AT ALL TIMES TO SYSTEMS REQUIRING SLOPE FOR DRAINAGE AND DUCTWORK TOO LARGE TO FIT ABOVE OR BELOW SPRINKLER PIPING WITHIN CEILING CAVITY.
- PENDANT SPRINKLERS THROUGH CEILING TO BE RECESSED AND LOCATED IN CENTER OF TILE.
- A FLOW TEST WAS PERFORMED 7-9-25 BY TTL. STATIC PRESSURE WAS 60 PSI WITH A RESIDUAL OF 31 PSI FLOWING 580 GPM. TEST HYDRANT IS APPROXIMATELY 0.6 MILES WEST OF SCHOOL. A SECOND TEST HYDRANT ABOUT 0.7 MILES TO THE EAST HAD STATIC OF 66 PSI AND RESIDUAL OF 42 PSI FLOWING 580 GPM.

3 FIRE SPRINKLER GENERAL NOTES
NO SCALE

1 SECTION 'C' - MAIN FLOOR GYM FIRE SPRINKLER PLAN
1/4" = 1'-0"





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LICENSED
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01/14/26
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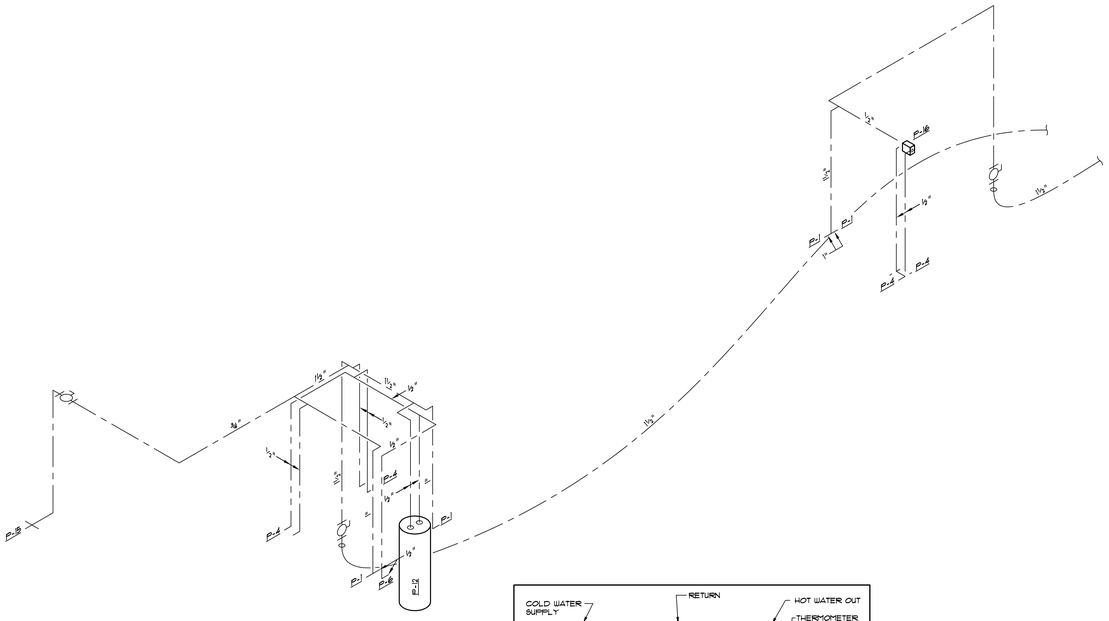
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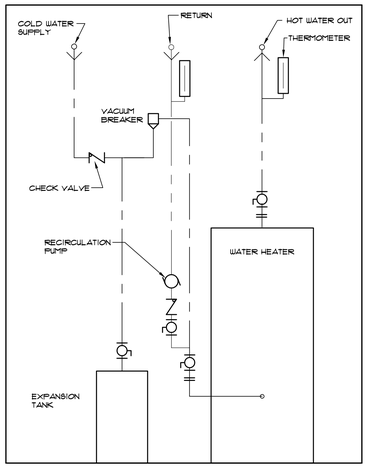
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SECTION 'C' - GYM FIRE SPRINKLER PLAN

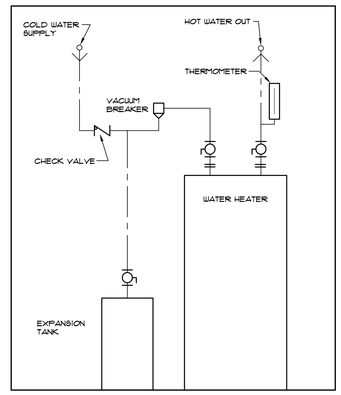
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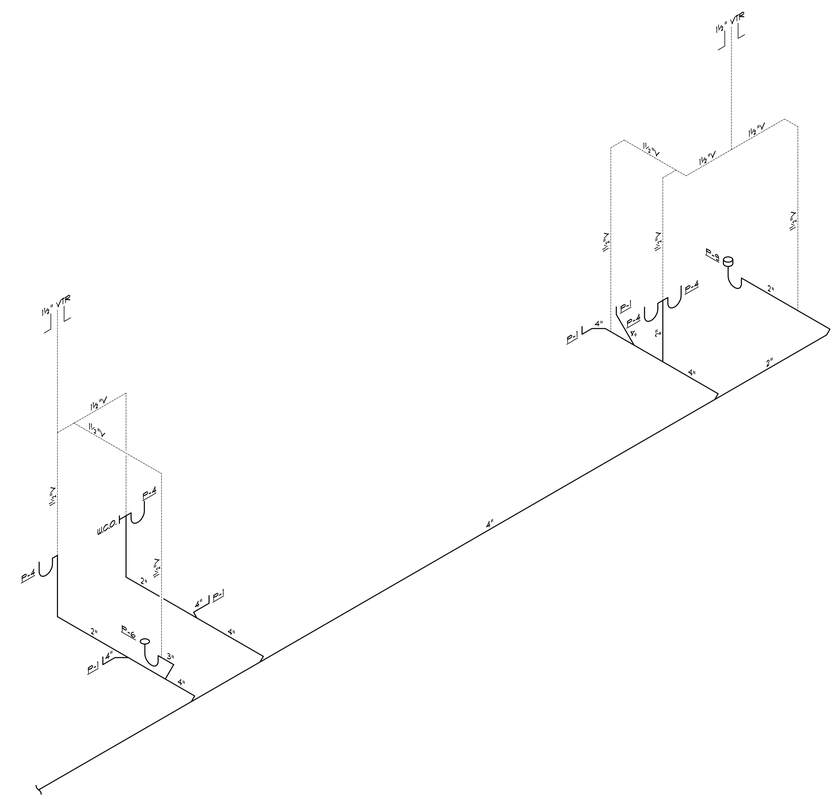
15 CLASSROOM PRESSURE RISER
NO SCALE



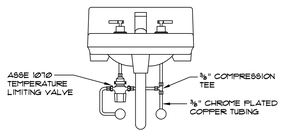
13 WATER HEATER W/ RECIRCULATION PUMP SCHEMATIC
NOT TO SCALE



12 WATER HEATER W/O RECIRCULATION PUMP SCHEMATIC
NOT TO SCALE



14 CLASSROOM SANITARY RISER
NO SCALE



11 LAVATORY MIXING DETAIL
NOT TO SCALE

SANITARY PIPING
SANITARY GREASE PIPING
SANITARY VENT PIPING
COLD WATER PIPING
HOT WATER PIPING
HOT WATER RETURN PIPING

4 PLUMBING LEGEND
NO SCALE

- LOCATE ROOF PENETRATIONS ON SLOPES OF ROOF AS DIRECTED BY ARCHITECT. IF NO ARCHITECT IS INVOLVED, LOCATE PENETRATIONS AS TO NOT BE VISIBLE FROM PRIMARY ROAD FRONTAGE AND PRIMARY BUILDING ENTRANCE.
- ALL CONNECTIONS TO OWNER SUPPLIED FIXTURES SUCH AS REFRIGERATORS, ICE MACHINES, ETC. TO BE MADE WITH SOFT COPPER.
- WATER HEATER OUTLET TEMPERATURE TO BE 140°F. A55E Ø10Ø MIXING VALVE OUTLET TEMPERATURE TO BE 110°F.
- ALL WATER PIPING TO BE TYPE L COPPER WITH NO LEAD SOLDERED OR PRO PRESS FITTINGS.
- BELOW SLAB WASTE PIPING TO BE CONTINUOUSLY SUPPORTED ON UNDISTURBED OR MECHANICALLY COMPACTED SOIL.
- ALL DRAINAGE, WASTE, AND VENT PIPING TO BE SCHEDULE 40 SOLID CORE PVC.
- SANITARY VENTS THROUGH ROOF TO BE LOCATED A MINIMUM OF 10' FROM HVAC AIR INTAKES. COORDINATE LOCATIONS WITH HVAC CONTRACTOR.
- HOT WATER PIPING ABOVE SLAB TO BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET.
- PLASTIC DROP IN ANCHORS ARE NOT ACCEPTABLE FOR SUPPORTING ANYTHING, ANYWHERE. NOT FOR SUPPORTING PIPES, FIXTURES, OR ANYTHING ELSE.
- HOT AND COLD WATER PIPING TO BE LABELED WHERE CONCEALED ABOVE SUSPENDED CEILINGS AND IN MECHANICAL ROOMS. LABELS TO HAVE TEXT HEIGHT NOT LESS THAN 1/2" AND SHALL INDICATE FLOW FLUID TYPE AND DIRECTION OF FLOW. LABELS MAY BE SNAP AROUND OR SELF ADHESIVE. SELF ADHESIVE LABELS TO INCLUDE BANDING TAPE ON EACH END OF LABEL UNWRAPPED FULL CIRCUMFERENCE OF PIPE AND OVERLAPPING LABEL BY 1/2" ON BOTH ENDS. FLOW DIRECTION MAY BE INDICATED ON LABEL OR BANDING TAPE. LABELING TO OCCUR IN EVERY ROOM BUT NO LESS THAN 20' ON CENTER.
- WATER HEATERS 5-120 GALLONS AND LESS THAN 200 MBH INSTALLED IN ALL PUBLIC BUILDINGS, WHETHER CITY, COUNTY, OR STATE OWNED, INCLUDING ALL SCHOOLS, UNIVERSITIES, LIBRARIES, COMMUNITY CENTERS, ETC. WILL REQUIRE A STATE OF ALABAMA BOILER TAG. PLUMBING CONTRACTOR MUST REQUEST TAG FROM THE STATE OF ALABAMA AND PERMANENTLY AFFIX IT TO THE WATER HEATER. ALL STATE FEES FOR INSPECTION AND CERTIFICATION ARE TO BE PAID BY PLUMBER. INSTALLATION PERMIT AND ASME STAMP ARE NOT REQUIRED. WATER HEATERS GREATER THAN 120 GALLONS OR 200 MBH REQUIRE STANDARD ALABAMA BOILER PERMITTING AND ASME STAMP.

3 PLUMBING GENERAL NOTES
NO SCALE

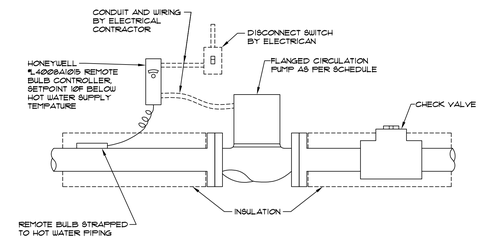
Fixture type	Approved Fixture Models
ADA Flush Valve Water Closet	AS #3043.001; Kohler #K-96057; Toto #CT705ELN; Zurn #Z5665-BWL1
Flush Valve Water Closet	AS #2234.015; Kohler #K-96053; Toto #CT705UNX; Zurn #Z5655-BWL1
Water Closet Flush Valve	Sloan Royal #111-1.6-YK; Zurn #Z6000AV-WS1-YK
Water Closet Supplies	McGuire #LFBV2166; Zurn #Z8802CRQ-PC; BrassCraft #KTR17XC
Open Front Closet Seat	Bemis #1655SSCT; Church #9500SSCT; ProFlo #PFTSCOFH2000WH; Jones Stephens Corp. #C108SSC00
ADA Urinal	AS #6590.001; Kohler #K-4991-ET; Toto #UT447E; Zurn #Z5755-U; Gerber #HE-27-730
Urinal Flush Valve	Sloan Royal #186-0.5; Zurn #Z6003AV-EWS-YK
ADA Wall Hung Lavatory 8"	Toto #LT307.8; AS #0356.015; Kohler #K-2030; Zurn #Z5368
ADA Self Rimming Lavatory 8"	Toto #LT502.8; AS #0475.020; Kohler #K-2196-8; Zurn #Z5118
Supply (lav, sink, cooler)	McGuire #LFBV2165; BrassCraft #KTR17XC1; Zurn #Z8802LRQ-PC
Lavatory Trap	McGuire #8872C; Zurn #Z8700-8-PC-B; ProFlo #PFPTB400; DB #7078N-1
Grid Strainer (lavatory)	McGuire #155A; Zurn #Z8743-PC; T&S #B-0899; ProFlo #PFGD100; DB #760-1
Lavatory Faucet	T&S #B-2990-WH4; Symmons #S-244-LWG; Chicago #404-317ABCP; Delta #23C354
Mop Sink	Fiat #MSB-2424; Swanstone #MS-2424; Zurn #Z-1996-24; Florestone #MSR-2424; ProFlo #PFMB2424S
Mop/Utility Sink Faucet	Kohler #K-830T40-4A; T&S #B-0665-BSTR; AS #8344.012; Chicago #897-CP; Delta #28T9
ADA Bi-Level Water Cooler	Oasis #PG8EBFSL; Elkay #EZSTL8WSLK; HT #HTHB-HAC8BLPV-NF
ADA Shower Valve	Symmons #4-500-X; Leonard #4500; Delta #T13H103 w/ R10000-UNWS
Floor Drain	JRS; Josam; Zurn; Sioux Chief
Hose Bibb	Prier #C-434T; Woodford #27P; Zurn #Z1346-CP3;
Expansion Tank	*Amtrol #ST; ProFlo #PFXT; Rheem #RRT
Recirculation Pump	Armstrong Astro 220SSU; Grundfos #UPS 15-35 SFC; Taco #003-SC4-1
Mixing Valve*	Symmons; Lawler; Watts; Leonard
Water Heater*	Rheem; A O Smith; Lochinvar; Raypak; Bradford White
Tankless Water Heater*	Eemax; Chronomite; Stiebel Eltron

* Type, size, & electical requirments as per schedule.
Abbreviations:
AS-American Standard; JRS-Jay R. Smith; T&S-T&S Brass;
HT-Halsey Taylor; B&G-Bell & Gossett; EBC-Engineered Brass Company; DB-Dearborn Brass

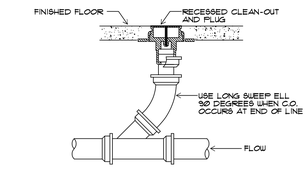
2 PLUMBING EQUALS SCHEDULE
NO SCALE

TAG	DESCRIPTION	PRODUCTS
P-1	FV ADA WATER CLOSET	1.6 GALLON PER FLUSH, VITREOUS CHINA, 1-1/2" TOP SPUD, 17-19" SEAT HEIGHT, FLUSH VALVE, SOLID OR SPLIT RING PIPE SUPPORT, OPEN FRONT SEAT LESS COVER
P-2	FV WATER CLOSET	1.6 GALLON PER FLUSH, VITREOUS CHINA, 1-1/2" TOP SPUD, 15-17" SEAT HEIGHT, FLUSH VALVE, SOLID OR SPLIT RING PIPE SUPPORT, OPEN FRONT SEAT LESS COVER
P-3	ADA URINAL	0.5 GALLON PER FLUSH, VITREOUS CHINA, 3/4" TOP SPUD, STAINLESS STRAINER, FLUSH VALVE, SOLID OR SPLIT RING PIPE SUPPORT
P-4	WALL ADA LAVATORY	WALL HUNG ADA LAVATORY, FAUCET, SUPPLIES, GRID DRAIN, P-TRAP, ASSE 1070 TEMPERATURE LIMITING VALVE, TRAP AND SUPPLY INSULATION
P-5	COUNTER ADA LAVATORY	SELF RIMMING ADA LAVATORY, FAUCET, SUPPLIES, GRID DRAIN, P-TRAP, ASSE 1070 TEMPERATURE LIMITING VALVE, TRAP AND SUPPLY INSULATION
P-6	MOP SINK	MOP SINK, FAUCET, WALL GUARDS, HOSE WITH HOSE CLIP
P-7	ADA DOUBLE WATER COOLER	DUAL LEVEL WATER COOLER, SUPPLY, P-TRAP, CANE APRON, BOTTLE FILLER
P-8	FLOOR DRAIN	JAY R. SMITH #2005, 6" ROUND TOP, 3" OUTLET, TRAP SEAL INSERT
P-9	SMALL FLOOR SINK	JAY R, SMITH #3100, 8x8", 2" OUTLET, DOME STRAINER, 3/4 RIM AND GRATE
P-10	LARGE FLOOR SINK	JAY R. SMITH #3151, 12x12", 4" OUTLET, SEDIMENT BUCKET, LESS RIM AND GRATE
P-11	CLOTHES WASHER BOX	GUY GRAY #BB200, 2" OUTLET, WATER HAMMER ARRESTORS, STAINLESS BRAIDED HOSES
P-12	10 GALLON ELECTRIC WATER HEATER	10 GALLON STORAGE CAPACITY, 120V, 2000 WATT, AMTROL #ST-5 EXPANSION TANK, WALL SHELF, HOLDRITE #QS-5 EXPANSION TANK BRACKET
P-13	120 GALLON ELECTRIC WATER HEATER	120 GALLON STORAGE CAPACITY, RHEEM HEAVY DUTY SERIES OR EQUAL, 208V/3/60, 12.3 KW, BALANCED PHASES, 34.1 FLA, AMTROL #ST-12 EXPANSION TANK, HOLDRITE
P-14	CIRCULATION PUMP	ARMSTRONG ASTRO #220SS, UNION CONNECTION, 120V, AQUASTAT
P-15	HOSE BIB	FROST RESISTANT, 8" WALL DEPTH
P-16	TANKLESS WATER HEATER	EEMAX #SPEX2412, 1.5 GPM, 120V, 2400 WATT
KIT #xx.x	FOOD SERVICE EQUIPMENT	SEE FOOD SERVICE PLANS FOR MORE INFORMATION

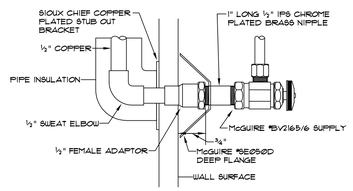
1 PLUMBING FIXTURE SCHEDULE
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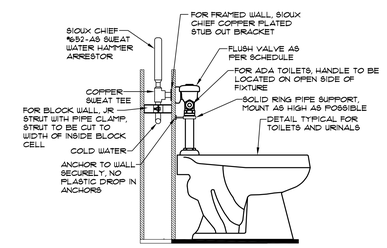
10 RECIRCULATION PUMP DETAIL
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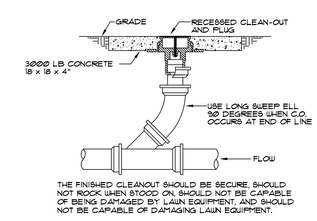
9 FINISHED FLOOR CLEANOUT DETAIL
NOT TO SCALE



8 STUD WALL SUPPLY DETAIL
NOT TO SCALE

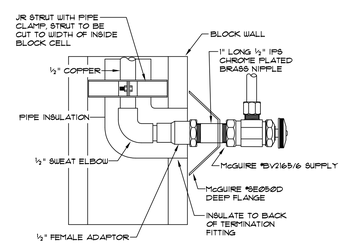


7 FLUSH VALVE DETAIL
NOT TO SCALE



THE FINISHED CLEANOUT SHOULD BE SECURE. SHOULD NOT ROCK WHEN STOOD ON. SHOULD NOT BE CAPABLE OF BEING DAMAGED BY LAUN EQUIPMENT, AND SHOULD NOT BE CAPABLE OF DAMAGING LAUN EQUIPMENT.

6 GRADE CLEANOUT DETAIL
NOT TO SCALE



5 BLOCK WALL SUPPLY DETAIL
NOT TO SCALE

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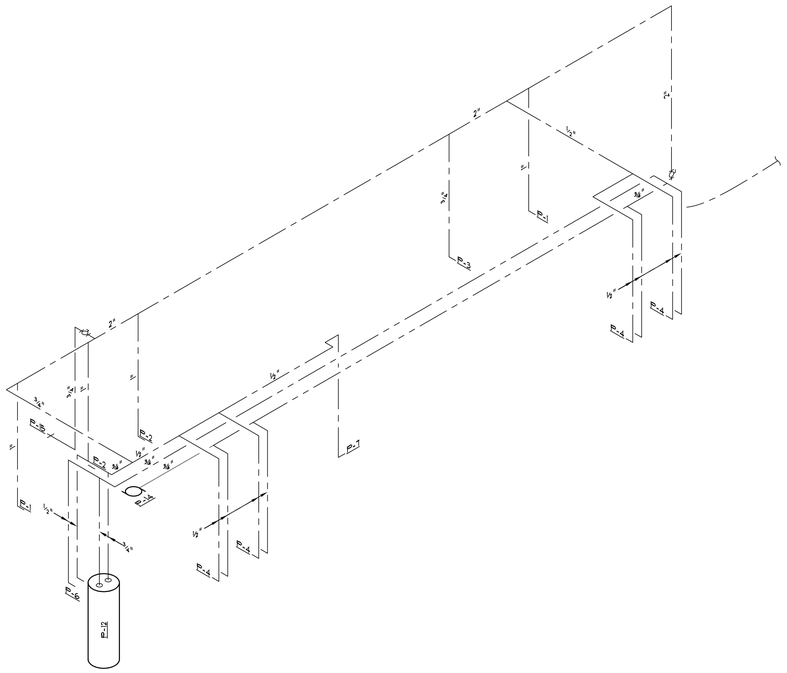
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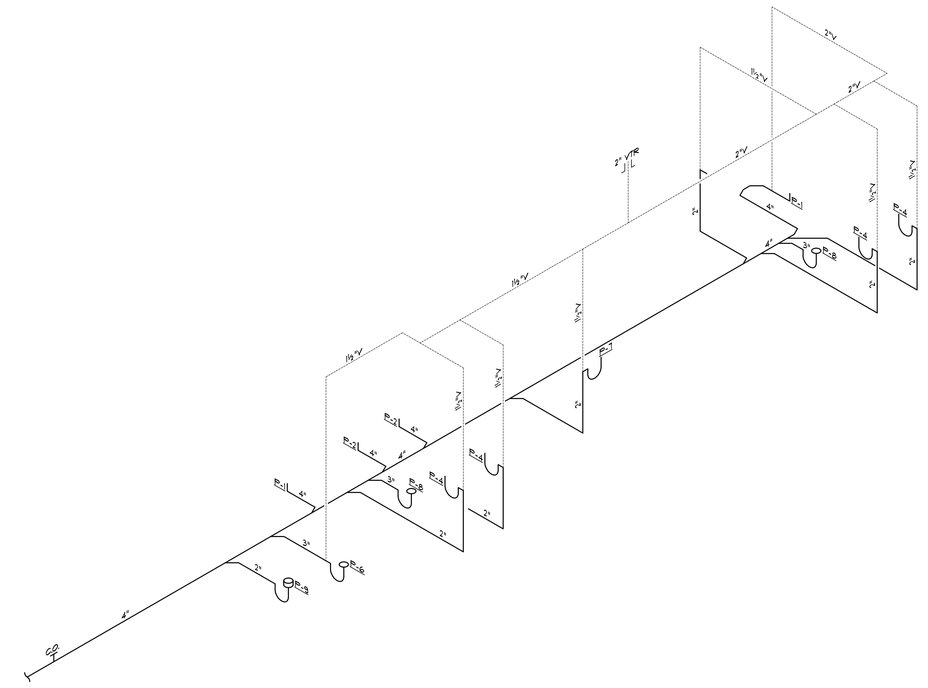
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CLASSROOMS PLUMBING PLAN

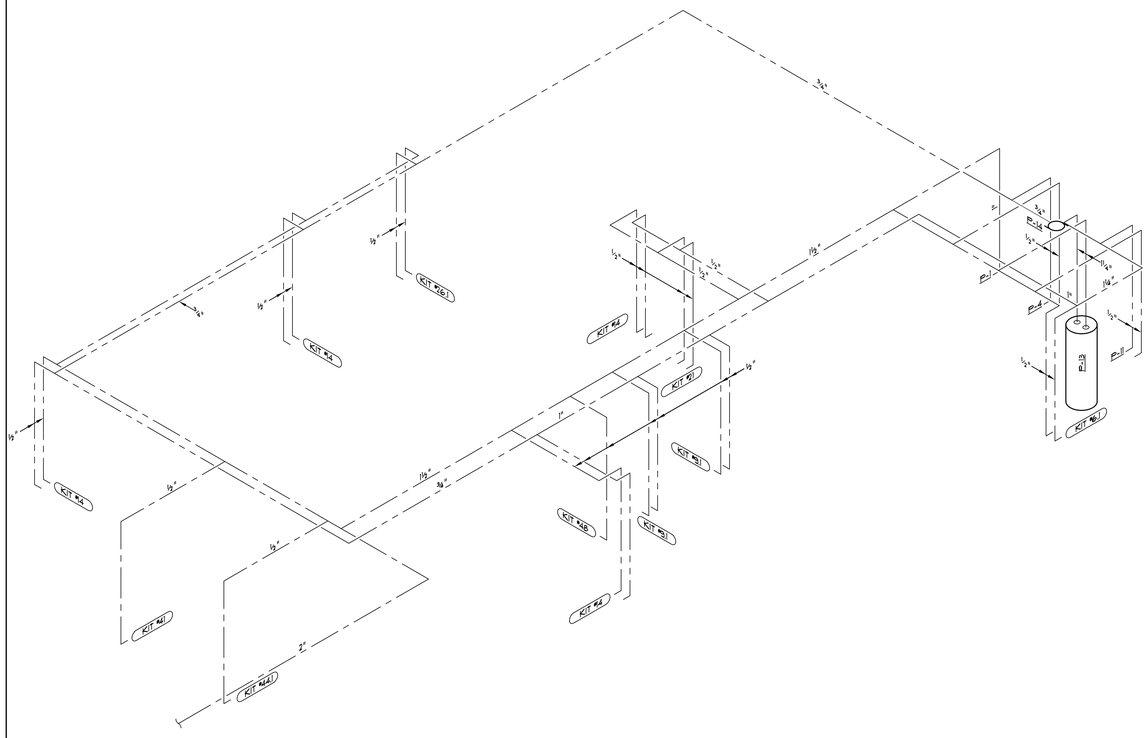
P001



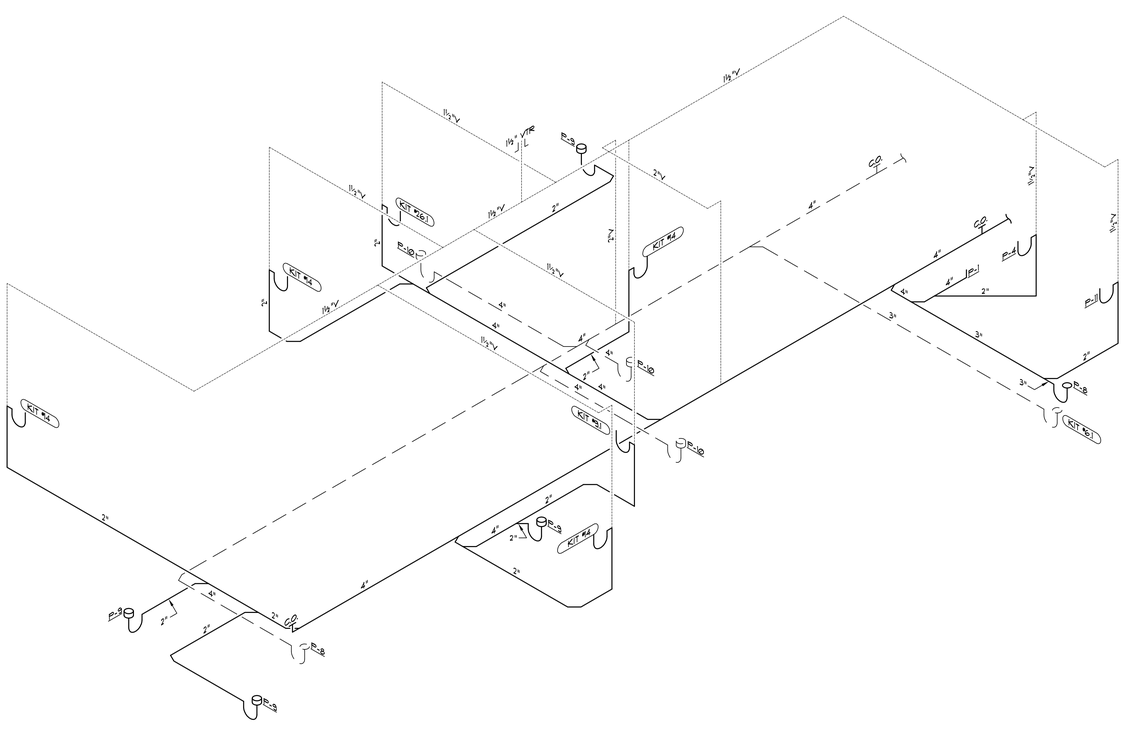
4 GYMNASIUM PRESSURE RISER
NOT TO SCALE



3 GYMNASIUM SANITARY RISER
NOT TO SCALE



2 KITCHEN PRESSUR RISER
NOT TO SCALE



1 KITCHEN SANITARY RISER
NOT TO SCALE

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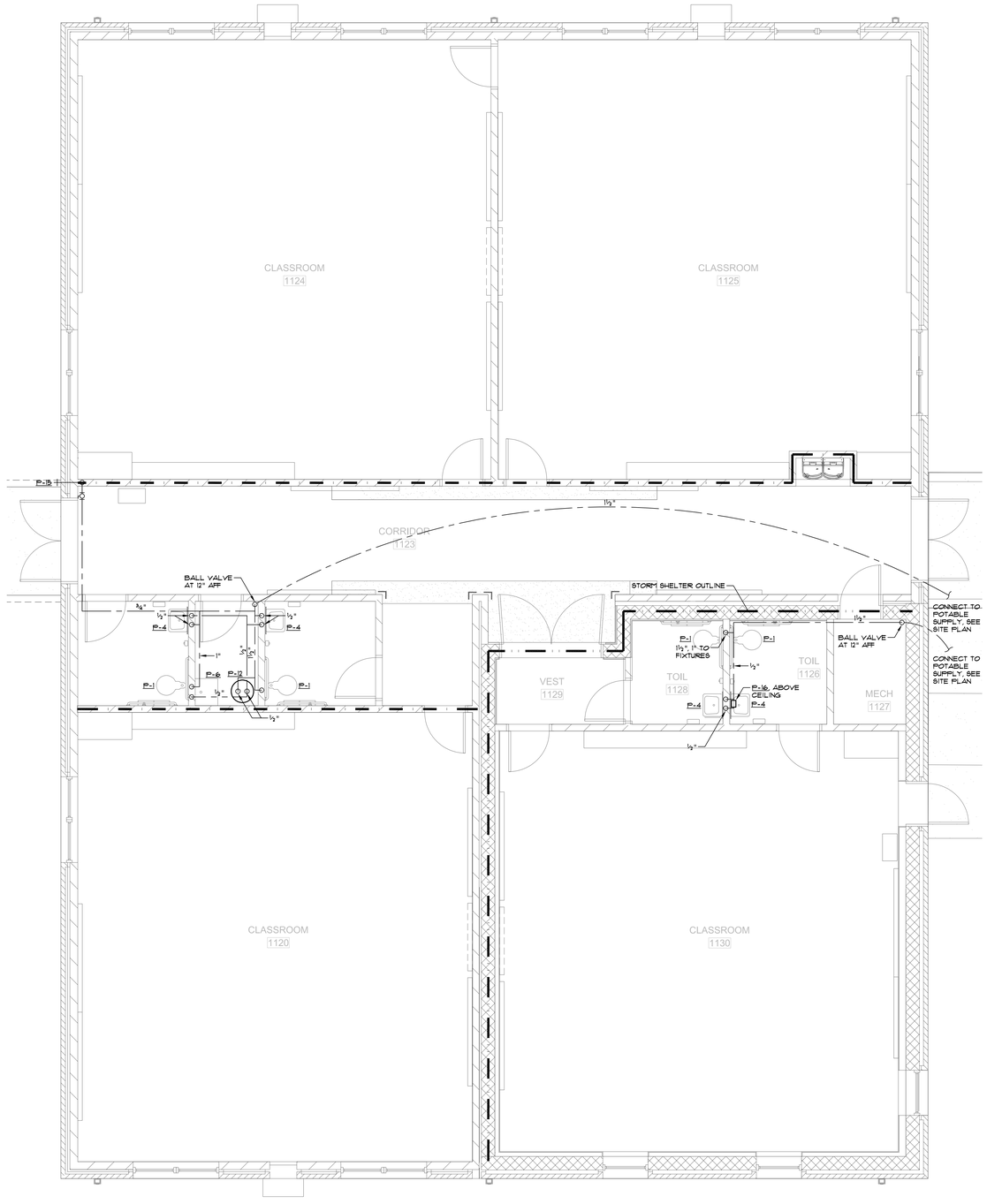
CONSTRUCTION DOCUMENTS

DATE: 01/14/26
PROJ NO: 25-060

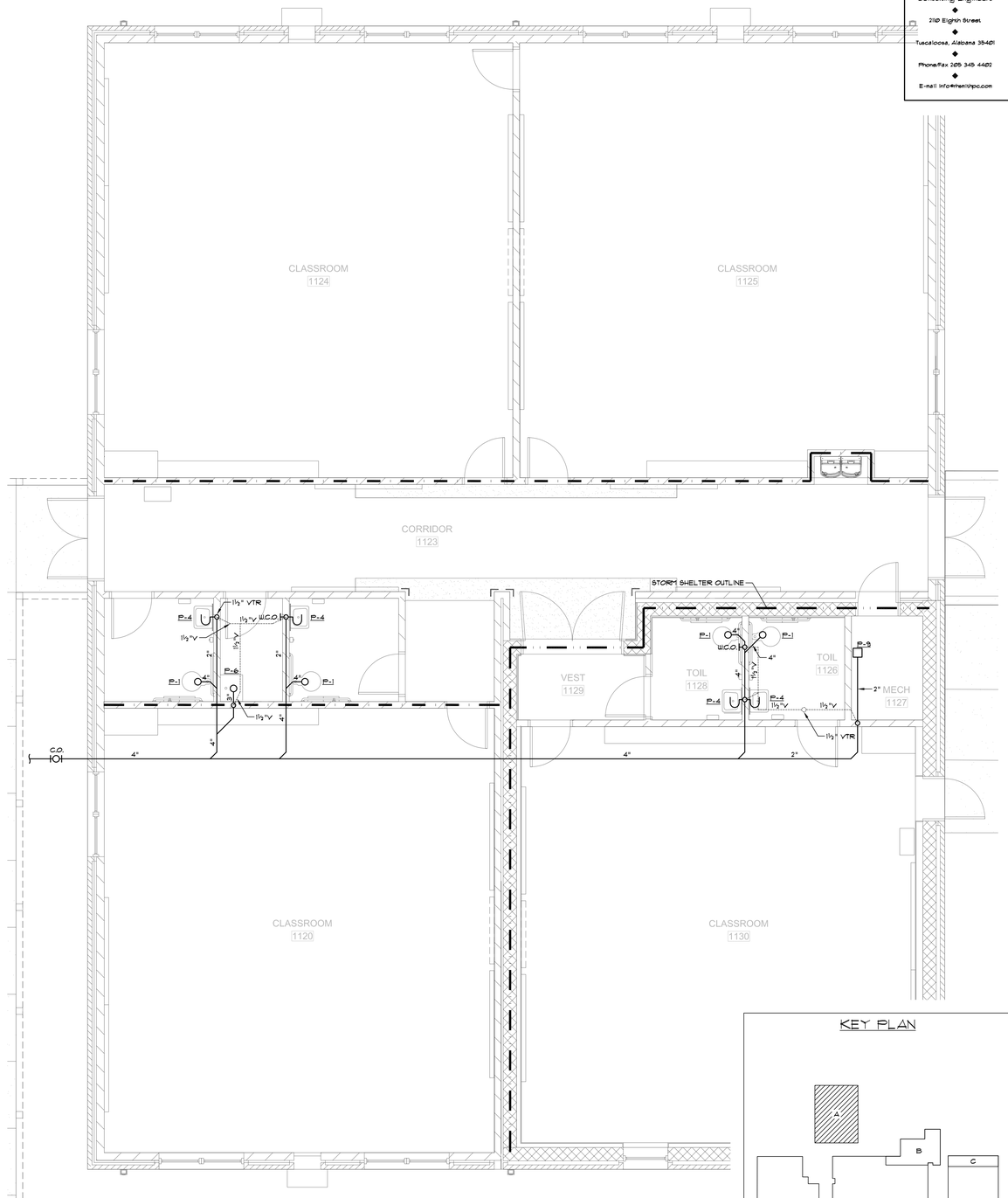
REVISIONS		
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PLUMBING RISERS

P002



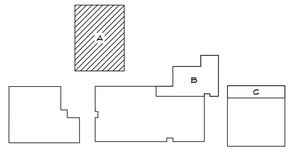
2 SECTION 'A' - CLASSROOMS PRESSURE PLAN
1/4" = 1'-0"



1 SECTION 'A' - CLASSROOMS SANITARY PLAN
1/4" = 1'-0"

PLAN SCALE
0' 4' 16'
2' 8'

KEY PLAN



STATE OF ALABAMA
LICENSED
No. 22530
PROFESSIONAL
ENGINEER
FRANK STECKLER

01/14/26 *25-060

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CONSTRUCTION
DOCUMENTS

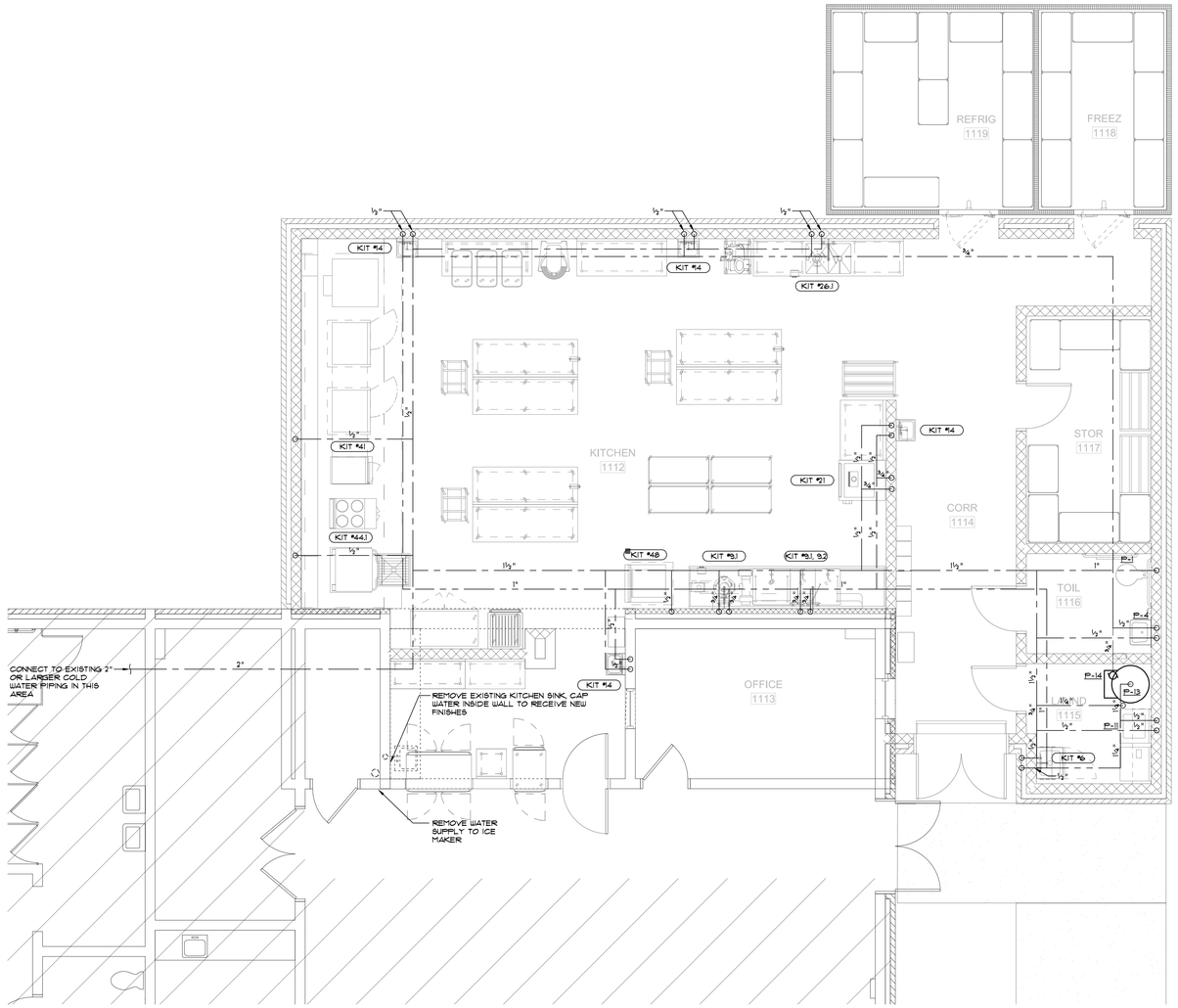
DATE: 01/14/26
PROJ NO: 25-060

REVISIONS

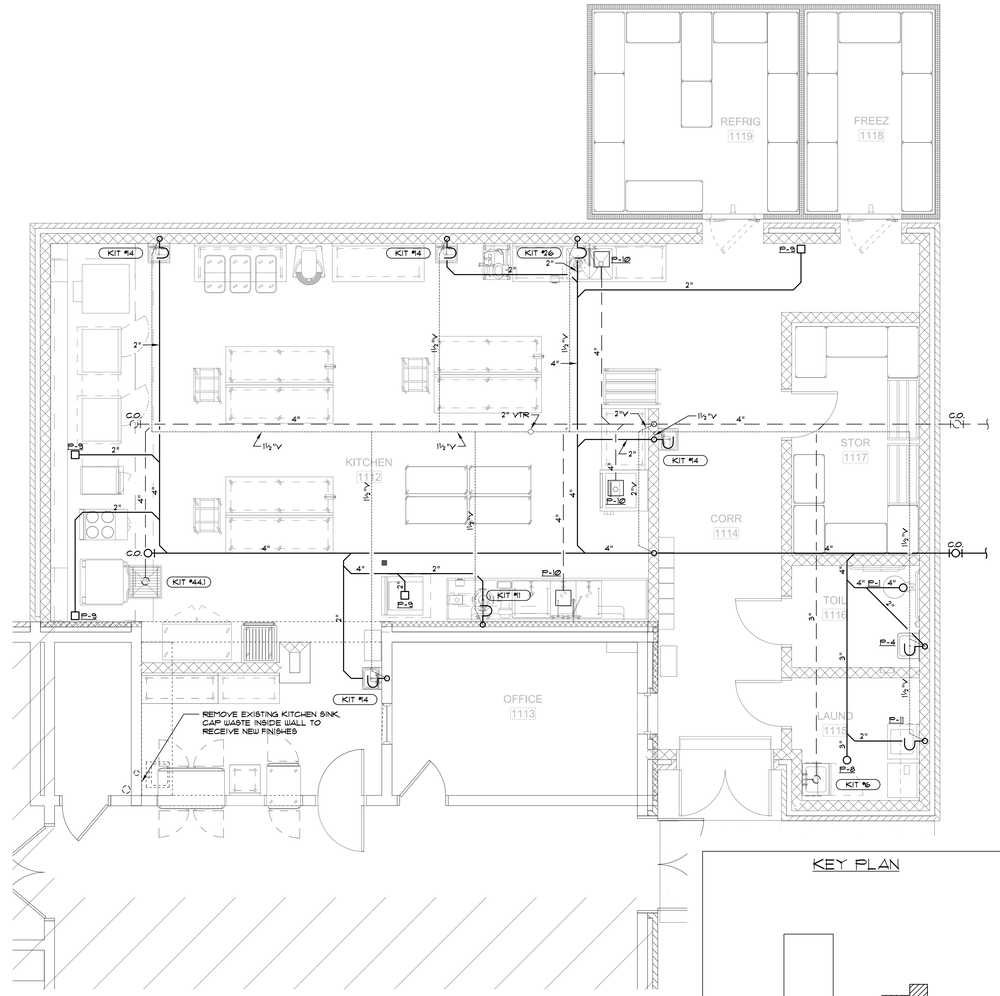
#	DESC	DATE

SECTION 'A' -
CLASSROOMS
PLUMBING PLAN

P101



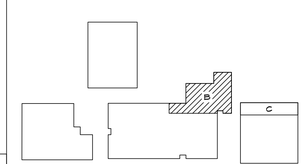
2 SECTION 'B' - KITCHEN PRESSURE PLAN
1/4" = 1'-0"



1 SECTION 'B' - KITCHEN SANITARY PLAN
1/4" = 1'-0"

PLAN SCALE
0' 4' 16'
2' 8'

KEY PLAN



STATE OF ALABAMA
LICENSED
NO. 22530
PROFESSIONAL
ENGINEER
FRANK STEGALL

01/14/26 *2540

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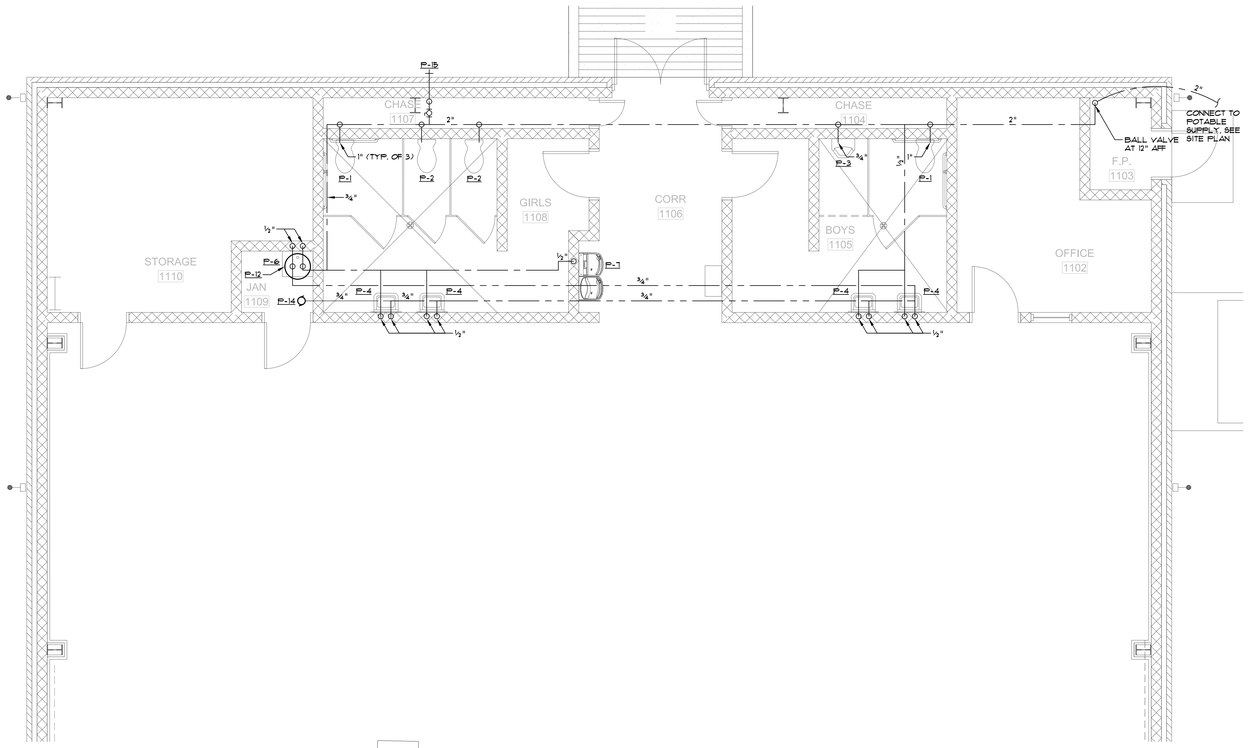
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REVISIONS

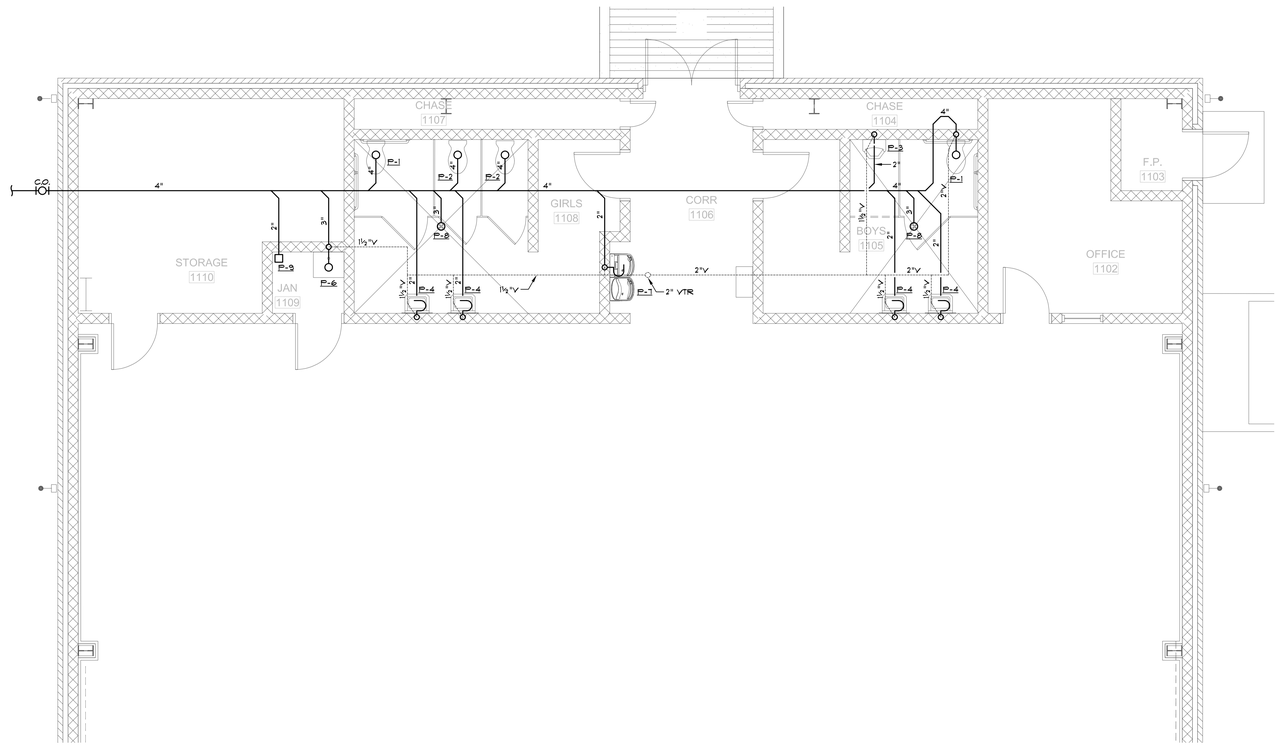
#	DESC	DATE

SECTION 'B' - KITCHEN PLUMBING PLAN

P102



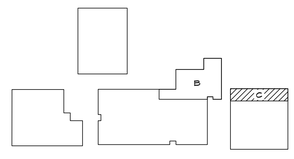
2 SECTION 'C' - GYM PRESSURE PLAN
1/4" = 1'-0"



1 SECTION 'C' - GYM SANITARY PLAN
1/4" = 1'-0"

PLAN SCALE
0' 4' 16'
2' 8'

KEY PLAN



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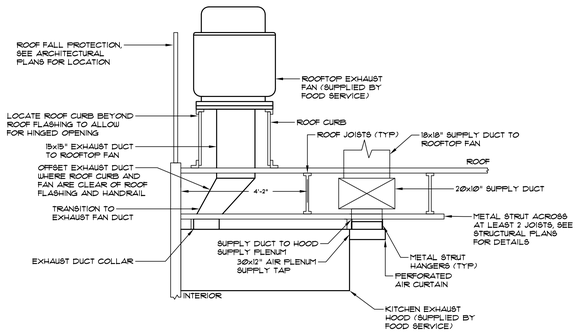
CONSTRUCTION DOCUMENTS

DATE: 01/14/26
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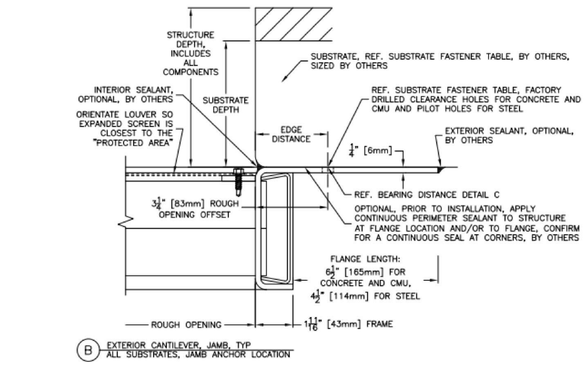
REVISIONS		
#	DESC	DATE

SECTION 'C' - GYM PLUMBING PLAN

P103



12 KITCHEN EXHAUST HOOD SECTION
NOT TO SCALE



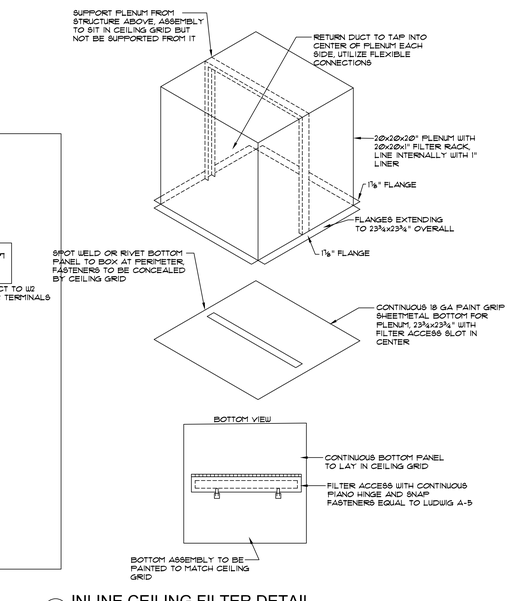
B EXTERIOR CANTILEVER, JAMB, TYP
ALL SUBSTRATES, JAMB ANCHOR LOCATION

DETAIL B SUBSTRATE FASTENER TABLE: EXTERIOR OR INTERIOR CANTILEVER, JAMB ANCHOR LOCATION

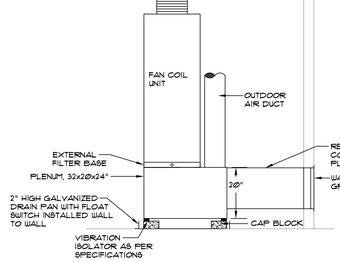
SUBSTRATE	MIN EDGE, MIN BEARING NEAR ANCHOR	CENTERS	MIN EMBEDMENT	MIN DEPTH OF SUBSTRATE COMPONENT OF STRUCTURE	OTHER
GROUT FILLED CMU	3¼" [83mm], 1½" [32mm] MIN BEARING TOWARD JAMB AND 2¾" [70mm] MIN BEARING AWAY FROM JAMB	6" [152mm]	4½" [108mm]	8" [203mm] NOM CMU BLOCK	EDGE DISTANCE OF 3¼" [83mm] MIN IN ONE DIRECTION AND 8" [203mm] MIN IN ALL OTHER DIRECTIONS, JAMB FLANGE MUST BE FULLY BACKED BY SUBSTRATE OR OTHER SUFFICIENT SUPPORT OVER NOTED BEARING DISTANCES
	½" [13mm] ø DEWALT SCREW-BOLT+, BY OTHERS				
	SUBSTRATE REQUIREMENTS: -FULLY GROUTED CMU, 1.5 KSI [10.3 MPA] MIN COMPRESSIVE STRENGTH. -CMU BLOCK MIN: 8x8x16" [203x203x406mm] NOM, GRADE N, LIGHT OR NORMAL OR MED-WEIGHT, TYPE II, CONFORMS TO ASTM C90. -GROUT MIN: COMPRESSIVE STRENGTH OF AT LEAST EQUAL TO ITS SPECIFIED STRENGTH BUT MIN OF 2 KSI [13.8 MPA] AS TESTED PER ASTM C1019, OR ALTERNATIVELY PER SEC 3.2.2 OF ICC-ES REPORT ESR-4042.				

11 GREENHECK STORM LOUVER DETAIL
NOT TO SCALE

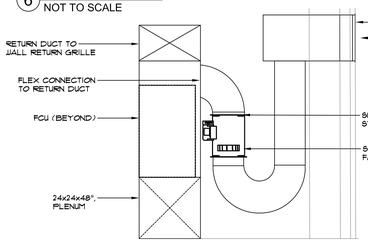
9 WHP# 4 & 5 CONTROL DETAIL
NOT TO SCALE



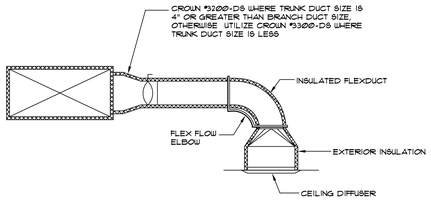
10 REFRIGERANT SUPPORT DETAIL
NOT TO SCALE



6 FCU DETAIL
NOT TO SCALE



5 STORM SUPPLY ELEVATION
NOT TO SCALE



4 BRANCH DUCT DETAIL
NOT TO SCALE

HP #1	HEAT PUMP, FUJITSU #AOUH30KUAS1, 2.5 TON NOMINAL CAPACITY, 19 SEER2, 3.84 COP, 208V/1/60, 23.1 MCA, 25 MOP
HP #2	HEAT PUMP, FUJITSU #AOUH12KUAS1, 1 TON NOMINAL CAPACITY, 23.1 SEER2, 3.6 COP, 208V/1/60, 11.1 MCA, 15 MOP
HP #3, 5, 6, 7	HEAT PUMP, TRANE #5TUR3060A, 5 TON NOMINAL CAPACITY, 15 SEER, 208V/1/60, 33 MCA, 50 MOP
HP #4	HEAT PUMP, FUJITSU #AOUH18KUAS2, 1.5 TON NOMINAL CAPACITY, 22 SEER2, 4.4 COP2, 208V/1/60, 14.9 MCA, 15 MOP
HP #8	HEAT PUMP, FUJITSU #AOUH36KUAS1, 3.0 TON NOMINAL CAPACITY, 17.6 SEER2, 3.5 COP, 208V/1/60, 24.9 MCA, 25 MOP
HP #9	HEAT PUMP, FUJITSU #AOU48RLAV84, 4.0 TON NOMINAL CAPACITY, 11.8 EER, 3.6 COP2, 208V/1/60, 29.8 MCA, 30 MOP
HP #10	HEAT PUMP, FUJITSU #AOU12RLAVL, 6.0 TON NOMINAL CAPACITY, 11.9 EER, 4.18 COP, 208V/3/60, 38 MCA, 40 MOP
WHP #1-3	WALL HEAT PUMP, BAIRD #36HPDA, 2.5 TON NOMINAL CAPACITY, 11.4 EER, 3.4 COP, 208V/1/60, 5KW ELECTRIC HEAT, 48 MCA, 50 MOP, INTEGRAL CIRCUIT BREAKER, HOT GAS REHEAT, MOTORIZED OUTDOOR AIR DAMPER, PROGRAMMABLE THERMOSTAT WITH HUMIDITY CONTROL
WHP #4, 5	WALL HEAT PUMP, BAIRD #60HPDA, 5 TON NOMINAL CAPACITY, 11.0 EER, 3.3 COP, 208V/3/60, 5KW ELECTRIC HEAT, 44 MCA, 45 MOP, INTEGRAL CIRCUIT BREAKER, HOT GAS REHEAT, MOTORIZED OUTDOOR AIR DAMPER, PROGRAMMABLE THERMOSTAT WITH HUMIDITY CONTROL
FCU #1	FAN COIL UNIT, FUJITSU #AMUH36KUAS, MULTI-POSITION - UPFLOW 2.5 TON NOMINAL CAPACITY, 1000 CFM AT 0.5" ESP, POWER FROM OUTDOOR UNIT, PROGRAMMABLE THERMOSTAT, EXTERNAL FILTER BASE
FCU #2	FAN COIL UNIT, FUJITSU #ACUH12KUAS, COMPACT CASETTE, 1 TON NOMINAL CAPACITY, 360 CFM, POWERED FROM OUTDOOR UNIT, PROGRAMMABLE THERMOSTAT
FCU #3, 5, 6, 7	FAN COIL UNIT, TRANE #TAMD060AC4, MULTI-POSITION - UPFLOW, 5 TON NOMINAL CAPACITY, 1600 CFM AT 0.5" ESP, 208V/1/60, 5 KW ELECTRIC HEAT, 28 MCA, 30 MOP, PROGRAMMABLE THERMOSTAT, INTERNAL FILTER RACK
FCU #4-1, 4-2	FAN COIL UNIT, FUJITSU #ACUH09KUAS, COMPACT CASSETTE, Ø.75 TON NOMINAL CAPACITY, 310 CFM, POWERED FROM OUTDOOR UNIT, PROGRAMMABLE THERMOSTAT
FCU #8	FAN COIL UNIT, FUJITSU #AMUH36KUAS, MULTI-POSITION - UPFLOW 3.0 TON NOMINAL CAPACITY, 1200 CFM AT 0.5" ESP, POWER FROM OUTDOOR UNIT, PROGRAMMABLE THERMOSTAT, EXTERNAL FILTER BASE
FCU #9	FAN COIL UNIT, FUJITSU #AUU48TLAV, 4.0 TON NOMINAL CAPACITY, 320 CFM AT 0.5" ESP, 208V/1/60, 18.8 MCA, 15 MOP, PROGRAMMABLE THERMOSTAT
FCU #10	FAN COIL UNIT, FUJITSU #AUU12TLAV, 6.0 TON NOMINAL CAPACITY, 980 CFM AT 0.5" ESP, 208V/1/60, 26 MCA, 15 MOP, PROGRAMMABLE THERMOSTAT
DEHU	DEHUMIDIFIER, SANTA-FE CLASSIC #D047I0, 115 PINT PER DAY CAPACITY, 120V, 540 WATTS, CORD AND PLUG SUPPLY, DUCTED INLET AND OUTLET, VERTICAL DISCHARGE
SF	STORM FAN, GREENHECK SQ-9-VG, 1110 CFM AT Ø.3" SP, 120V, ¼ HP MOTOR, 3.6 FLA, 15 MOP, INSULATED HOUSING, FILTER RACK, VERTICAL INSTALLATION, GRAVITY BACKDRAFT DAMPER
BPI-W	BI-POLAR IONIZATION, GLOBAL PLASMA SOLUTIONS #CI-2, RATED FOR 2400 CFM, NEGLIGIBLE OZONE PRODUCTION, 24-240V, FAN COIL MOUNTING, SELF CLEANING
BPI-D	BI-POLAR IONIZATION, GLOBAL PLASMA SOLUTIONS #DM-2, RATED FOR 2400 CFM, NEGLIGIBLE OZONE PRODUCTION, 24-240V, DUCT MOUNTING, SELF CLEANING
CONTROL PANEL	FUJITSU #JTY-DCGY22, 120V OR 208V, REMOTE ACCESS FROM INTERNET BROWSER
EF #1	EXHAUST FAN, GREENHECK #SP-B70, 710 CFM AT Ø.125" SP, 1Ø SONE, 120V, WHITE GRILLE
EF #2	EXHAUST FAN, GREENHECK #SP-B150, 150 CFM AT Ø.125" SP, 1Ø SONE, 120V, WHITE GRILLE
EF #3	EXHAUST FAN, GREENHECK #SP-B300, 210 CFM AT Ø.125" SP, 1Ø SONE, 120V, WHITE GRILLE
WH	WALL HEATER, 500 WATT FUMPHOUSE HEATER, INTERNAL THERMOSTAT, 120V
CD	CEILING DIFFUSER, TITUS #TMS, SIZE AS PER PLAN, WHITE FINISH, LAY-IN BORDER, ROUND NECK
CDL	CEILING DIFFUSER, TITUS #TDC, SIZE AS PER PLAN, WHITE FINISH, LAY-IN BORDER, ROUND NECK
CRG	CEILING RETURN GRILLE, TITUS #350R, SIZE AS PER PLAN, WHITE FINISH, LAY-IN BORDER
FRG	FILTER RETURN GRILLE, TITUS #350RLFI, SIZE AS PER PLANS, KNURLED KNOB FASTENERS, SURFACE MOUNT BORDER, WHITE FINISH
GL	STORM LOUVER, GREENHECK #AFL-500, SIZE AS PER PLAN, EXTERIOR CANTILEVER INSTALLATION, KYNAR FINISH, COLOR AS PER ARCHITECT, BIRD SCREEN, FEMA 361 TESTED AND LABELED
GLI	STORM LOUVER INTERIOR, GREENHECK #AFL-500, SIZE AS PER PLAN, MILL FINISH, FEMA 361 TESTED, INTERIOR FLANGED
SWR	SIDE WALL REGISTER, TITUS #300RS, SIZE AS PER PLAN, WHITE FINISH, SURFACE MOUNT
WL	WALL LOUVER, GREENHECK #EDD-401, SIZE AS PER PLAN, KYNAR FINISH, COLOR AS PER ARCHITECT, CHANNEL FRAME CONSTRUCTION, BIRD SCREEN
WRG	WALL RETURN GRILLE, TITUS #33R, SIZE AS PER PLAN, WHITE FINISH, SURFACE MOUNT, BLADES PARALLEL TO FLOOR

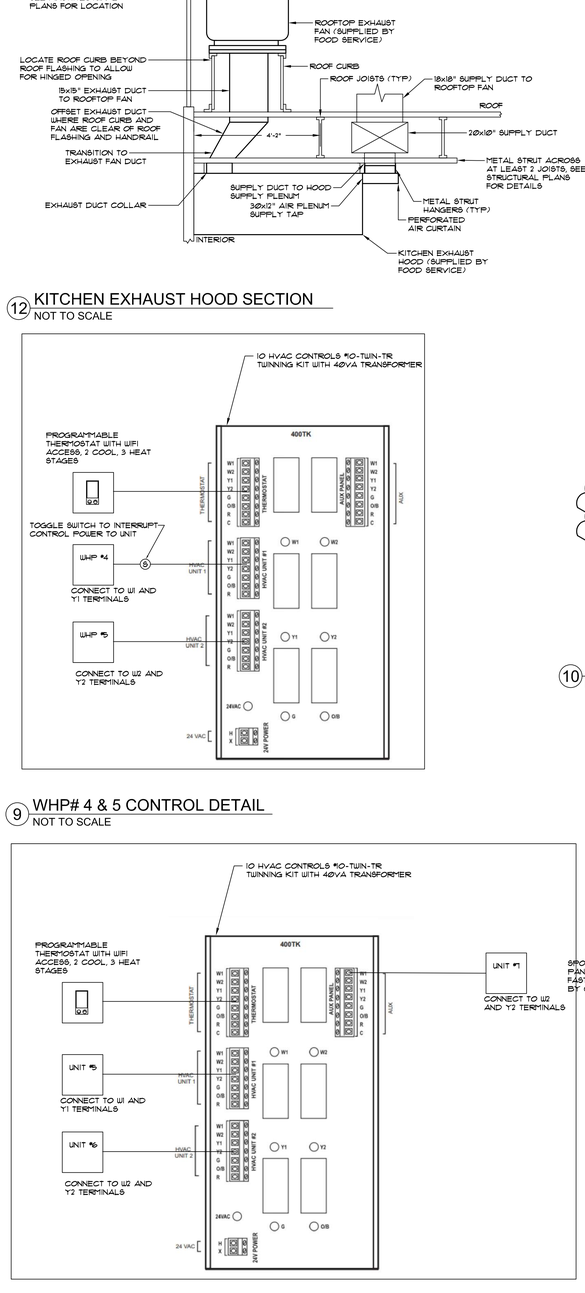
3 HVAC EQUIPMENT SCHEDULE
NO SCALE

	ELBOW WITH DOUBLE WALL TURNING VANES AS PER SPECIFICATIONS
AxB"	RECTANGULAR DUCT, FIRST DIMENSION AS VIEWED, EXTERNAL DIMENSIONS INDICATED
	RECTANGULAR DUCT TURNED DOWN
	RECTANGULAR DUCT TURNED UP
	CONTROL DAMPERS
	1 HOUR FIRE DAMPER
	ROUND DUCT
	ROUND DUCT TURNED DOWN
	ROUND DUCT TURNED UP
C	CONDENSATE PIPING
R	REFRIGERANT PIPING
T	THERMOSTAT

2 HVAC LEGEND
NO SCALE

1 HVAC GENERAL NOTES
NO SCALE

- ALL DUCTWORK WITH DUCTS 8"Ø AND LESS IN LENGTH TO BE INSTALLED WITH FLEXIBLE ROUND DUCT AS PER SPECIFICATIONS. BRANCH DUCTS GREATER THAN 6'-0" IN LENGTH ARE TO BE INSTALLED WITH ROUND RIGID DUCT TO WITHIN 5'-0" OF TERMINATION WITH FLEXIBLE DUCT CONNECTION NOT EXCEEDING 5'-0" IN LENGTH.
- ALL STORM LOUVERS TO BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS
- VERIFY CEILING CONSTRUCTION PRIOR TO ORDERING DIFFUSERS.
- CONVENTIONAL EQUIPMENT AS MANUFACTURED BY TRANE, CARRIER, OR BRYANT ACCEPTABLE SUBJECT TO PLANS AND SPECIFICATIONS.
- MINI-SPLIT EQUIPMENT AS MANUFACTURED BY DAIKIN, CARRIER-TOSHIBA TRANE-MITSUBISHI, OR FUJITSU ACCEPTABLE SUBJECT TO PLANS AND SPECIFICATIONS.
- BI POLAR IONIZATION EQUIPMENT AS MANUFACTURED BY GLOBAL PLASMA SOLUTIONS, PHENOMENAL AIRE, AND BIOCLIMATE ACCEPTABLE SUBJECT TO PLANS AND SPECIFICATIONS.
- REFRIGERANT PIPE SIZES TO BE AS RECOMMENDED BY MANUFACTURER.
- ALL CONTROL CABLING ON EXTERIOR OF BUILDING TO BE INSTALLED IN CONDUIT.
- EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILING TO BE WITHIN 24" OF THE TOP OF THE CEILING GRID.
- WHERE OUTDOOR EQUIPMENT IS INSTALLED ON A CONCRETE PAD, NO UTILITIES ARE TO EXTEND BEYOND THE EDGE OF THE SLAB. CONDUIT, CONDENSATE, REFRIGERANT OR ANY OTHER UTILITY REQUIRING ROUTING BEYOND THE SLAB IS TO BE ROUTED THROUGH THE SLAB. ANYTHING HANGING OFF THE EDGE WILL BE DAMAGED BY LAWN CARE EQUIPMENT AND IS NOT ALLOWED.



8 UNITS 5, 6, & 7 CONTROL DETAIL
NOT TO SCALE

7 INLINE CEILING FILTER DETAIL
NOT TO SCALE

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REVISIONS

#	DESC	DATE

HVAC DETAILS, DIAGRAMS, & SCHEDULES

M001

System	System refrigerant	Quantity	Smallest area	Area	Height	Volume	Concentration (lb/1000ft3)	Notes (RCL)
HP - 1	R-32	4.4375	Classroom 1130	1914	10	19140	0.2	<4.8lb/1000ft3
HP - 2	R-32	2.25	Corridor 1123	581	10	5810	0.4	<4.8lb/1000ft3
HP - 3	R-454B	8.375	Nurse 1124	92	10	920	9.1	<22lb/1000ft3
HP - 4	R-32	3.0625	Laundry 1115	65	10	650	4.7	<4.8lb/1000ft3
HP - 5	R-454B	8.375	Gym 1101	4385	20	87700	0.1	<22lb/1000ft3
HP - 6	R-454B	8.375	Gym 1101	4385	20	87700	0.1	<22lb/1000ft3
HP - 7	R-454B	8.375	Gym 1101	4385	20	87700	0.1	<22lb/1000ft3
HP - 8	R-32	4.4375	Office 1102	146	10	1460	3.0	<4.8lb/1000ft3
HP - 9	R-410A	8.82	Gym 1101	4385	20	87700	0.1	<26lb/1000ft3
HP - 10	R-410A	24.25	Office 1113	160	10	1600	15.2	<26lb/1000ft3

7 REFRIGERANT CONCENTRATION SCHEDULE
NO SCALE

Space Name	Usage Category	Vent Type	Air Distribution Configuration	System	A_z	Nat Vent	Net Area	V_{pz}	# fixtures	IAQ Value	Density	P_z	R_p	R_a	Ex. Rate	Exhaust	V_{oz}	E_z	V_{oz}	Z_p	Min [Voz,IAQ]
	From IMC 2015 Table 403.3.1.1	Natural , Mechanical, or Mixed	From IMC 2015 Table 403.3.1.1.1.2		Zone floor area (ft^2)	Natural Ventilation opening free area (ft^2)	Zone floor area minus natural vent area (ft^2)	Zone primary airflow rate (cfm)	Including water closets and urinals if applicable	See GPS calculations	(people per ft^2)	Zone population (people)	People outdoor air rate (cfm per person)	Area outdoor air rate (cfm per ft^2)	(cfm per unit)	(cfm)	Breathing zone outdoor airflow rate (cfm)	Zone air distribution effectiveness (unitless)	Zone outdoor airflow rate (cfm)	Primary outdoor air fraction (unitless)	(cfm)
Classroom 1124	Classrooms (ages 5-8)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	WHP 1	989	[illegible]	989	1200	0	125	0.025	25	10	0.12	-	-	369	1.0	369	-	125
Classroom 1125	Classrooms (ages 5-8)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	WHP 2	989	[illegible]	989	1200	0	125	0.025	25	10	0.12	-	-	369	1.0	369	-	125
Classroom 1120	Classrooms (ages 5-8)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	WHP 3	967	[illegible]	967	1200	0	125	0.025	25	10	0.12	-	-	369	1.0	369	-	125
Classroom 1130	Classrooms (ages 5-8)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU [illegible]	914	[illegible]	914	1100	0	115	0.025	23	10	0.12	-	-	340	1.0	340	-	115
Corridor 1123 (Natural)	Corridors	Natural	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 2	581	42	[illegible]	360	0	0	-	-	-	0.06	-	-	35	1.0	35	-	0
Toil 1126	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU [illegible]	54	[illegible]	54	5	1		-	-	-	-	70	70	0	1.0	[illegible]	-	0
Toil 1128	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 2	54	[illegible]	54	5	1		-	-	-	-	70	70	0	1.0	[illegible]	-	0
Kitchen 1112	Kitchens (cooking)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 10	1150	[illegible]	1150	940	0		0.02	23	7.5	0.12	0.7	805	311	1.0	31[illegible]	-	311
Storage 1117	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 4-1	126	[illegible]	126	318	0		-	-	-	-	-	-	0	1.0	[illegible]	-	0
Corridor 1114 (Natural)	Corridors	Natural	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 10	[illegible]29	42	[illegible]	5	0	0	-	-	-	0.06	-	-	19	1.0	15	-	0
Toil 1116	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 10	54	[illegible]	54	5	1		-	-	-	-	70	70	0	1.0	[illegible]	-	0
Laundry 1115	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 4-2	66	[illegible]	[illegible]8	318	0		-	-	-	-	-	-	0	1.0	[illegible]	-	0
Storage 1110	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 8	218	[illegible]	218	70	0		-	-	-	-	-	-	0	1.0	[illegible]	0.00	0
Girls 1108	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 8	189	[illegible]	189	50	3		-	-	-	-	70	210	0	1.0	[illegible]	0.00	0
Boys 1105	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 8	1[illegible]9	[illegible]	1[illegible]9	45	2		-	-	-	-	70	140	0	1.0	[illegible]	0.00	0
Office 1102	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 8	146	[illegible]	146	[illegible]5	0	[illegible]	0.005	1	5	0.06	-	-	14	1.0	1[illegible]	0.06	5
Corridor 1106 (Natural)	Corridors	Natural	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 8	127	[illegible]	[illegible]	3[illegible]	0	0	-	-	-	0.06	-	-	[illegible]	1.0	[illegible]	0.00	0
Gym (Multi-use Assembly)	Multi-use Assembly	Mixed	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 9	4416	12[illegible]	1791	980	0	900	0.1	180	7.5	0.06	-	-	1615	1.0	1615	-	900
Gym (Play Area)	Gym, Stadium, Arena (play area)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 8	4416	[illegible]	4416	900	0	155	0.007	31	20	0.18	-	-	1415	1.0	44[illegible]	0.17	155
Women's 1121	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	225	[illegible]	225	75	5		-	-	-	-	70	350	0	1.0	[illegible]	0.00	0
Men's 1122	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	231	[illegible]	231	75	5		-	-	-	-	70	350	0	1.0	[illegible]	0.00	0
RR 1123	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	43	[illegible]	43	25	1		-	-	-	-	70	70	0	1.0	[illegible]	0.00	0
Women's 1121	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	225	[illegible]	225	75	5		-	-	-	-	70	350	0	1.0	[illegible]	0.00	0
Men's 1122	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	231	[illegible]	231	75	5		-	-	-	-	70	350	0	1.0	[illegible]	0.00	0
RR 1123	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	43	[illegible]	43	25	1		-	-	-	-	70	70	0	1.0	[illegible]	0.00	0
Nurse 1124	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	93	[illegible]	[illegible]5	350	0		0.005	1	5	0.06	-	-	11	1.0	11	0.04	11
Corridor 1125	Corridors	Mixed	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	1293	42	243	800	0		-	-	-	0.06	-	-	78	1.0	7[illegible]	0.10	78
Serving	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	135	[illegible]	135	3[illegible]0	0		0.005	1	5	0.06	-	-	13	1.0	13	0.04	13
Office 113	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU 3	160	[illegible]	160	[illegible]00	0		0.005	1	5	0.06	-	-	15	1.0	15	0.08	15

System	Type	V_{OU}	V_{PS}	E_V	V_{OT}
		Uncorrected outdoor air intake flow rate (cfm)	System primary airflow (cfm)	System ventilation efficiency (unitless)	Outdoor air intake flow rate (cfm)
WHP 1	Single Zone	125	1200	-	125
WHP 2	Single Zone	125	1200	-	125
WHP 3	Single Zone	125	1200	-	125
FCU 1	Single Zone	115	1[illegible]0	-	115
FCU 2	Single Zone	0	365	-	0
FCU 3	Multiple Zone	117	2000	0.96	122
FCU 4-1	Single Zone	0	318	-	0
FCU 4-2	Single Zone	0	318	-	0
FCU 8	Multiple Zone	160	1280	0.97	165
FCU 9	100% Outdoor Air	900	980	-	900
FCU 10	100% Outdoor Air	311	1[illegible]00	-	311

6 OUTDOOR AIR SCHEDULE
NO SCALE

Global Plasma Solutions
10 Mall Terrace, Building C
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VERSION 1.6 running ASHRAE 62.1-2013

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft)	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 Ra	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Voz/Ez)
Gym	Educational Facilities	Multi-use Assembly	4,416.0	180.0	7.5	0.06	1350	265	1.0	1615
										OA required per VRP

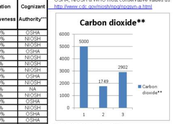
Zone Height (feet)	20.0
Cleaned Outside Air (Voz) (AQM)	900
Supply Air (Vs)	6,000
Return Air (Vr)	5100
Recirc. Flow Factor (Er)	0.85
Ventilation Effectiveness (Ez)	1.0
Level of Physical Activity	Mild Exercise
Filter Location	R
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant

Air Changes Per Hour	0.4	VRP OA CFM per person	9.0
Outside Air Per VRP	1615 CFM	f AQ OA CFM per person	5.0
Outside Air Per Hour	900 CFM		
Outside Air Savings	735 CFM	Winter Heating Savings	
OA Summer Drybulb	94.0	OA Winter Design DB (F)	45
OA Summer Wetbulb	78.0	Supply Air DB Setpoint (F)	65
Coil Leaving Air Wetbulb (F	58.6	MBH Saved Winter	11.0
Coil Leaving Air Wetbulb (F	58.6	KW Saved Winter	9.1
OA MBH Saved Summer*	12.0		
OA TONS Saved Summer*	4.4		

*OA = Outside Air
**OSHA, NIOSH & WHO most conservative values us
http://www.cdc.gov/niosh/topics/ch.html

Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the VRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority**
Acetaldehyde	200.0	0.01121	0.00336	Yes	0.00048	50%	OSHA
Acetone	250.0	0.00171	0.00037	Yes	0.00054	50%	NIOSH
Ammonia	35.00	0.01626	0.00636	Yes	0.21480	50%	NIOSH
Benzene	1.0000	0.00254	0.00034	Yes	0.00033	50%	OSHA
D. Butanone (MEK)	200.0	0.00019	0.00006	Yes	0.00133	50%	NIOSH
Carbon dioxide**	5000	1749	2992	Yes	736	0%	NIOSH
Chloroform	2.0000	0.00011	0.00001	Yes	0.00004	50%	NIOSH
Formaldehyde	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Hydrogen Sulfide	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Methane	NA	1.68094	1.69344	Yes	0.00000	0%	NA
Methanol	200.0	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Methylene Chloride	25.0	0.00072	0.00011	Yes	0.00121	50%	OSHA
Propane	1000.0	0.00098	0.00098	Yes	0.00000	0%	NIOSH
Tetrachloroethane	5.0000	0.00000	0.00000	Yes	0.00000	50%	OSHA
Tetrachloroethylene	100.0000	0.00037	0.00005	Yes	0.00002	50%	OSHA
Toluene	100.0000	0.00537	0.00072	Yes	0.00055	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00084	0.00035	Yes	0.00007	50%	NIOSH
Xylene	100.0000	0.00350	0.00045	Yes	0.00024	50%	OSHA

1 = ASHRAE & NIOSH CO2 Limit
2 = CO2 Level at Ventilation Rate OA Flow Rate
3 = CO2 Level at IAQ Procedure OA Flow Rate



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Building materials and furnishings assumed to have no VOCs and off-gassing is complete.	VAQ acceptable at reduced outside air levels?
All yellow shaded boxes require user input or review	Yes

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Date	10/13/2025
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Representative	
Engineer	
Contractor	

IMC 2006 & later allows for ASHRAE 62 IAQP through the engineered exception found in Section 403.2
Exhaust flow rates may differ from Table 6.5 based on ASHRAE 62 IAQP via Section 6.5.2

6 GYM (MULTI-USE ASSEMBLY) GPS CALCULATIONS
NO SCALE

Global Plasma Solutions
10 Mall Terrace, Building C
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VERSION 1.6 running ASHRAE 62.1-2013

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft)	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 Ra	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Voz/Ez)
Gym	Sports & Entertainment	Gym, Sports Arena (Play Area)	4,416.0	32.0	20.0	0.18	640	795	1.0	1435
										OA required per VRP

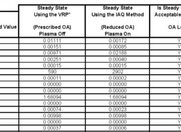
Zone Height (feet)	20.0
Cleaned Outside Air (Voz) (AQM)	900
Supply Air (Vs)	900
Return Air (Vr)	765
Recirc. Flow Factor (Er)	0.85
Ventilation Effectiveness (Ez)	1.0
Level of Physical Activity	Mild Exercise
Filter Location	R
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant

Air Changes Per Hour	0.5	VRP OA CFM per person	44.8
Outside Air Per VRP	1435 CFM	f AQ OA CFM per person	5.0
Outside Air Per Hour	900 CFM		
Outside Air Savings	1275 CFM	Winter Heating Savings	
OA Summer Drybulb	94.0	OA Winter Design DB (F)	45
OA Summer Wetbulb	78.0	Supply Air DB Setpoint (F)	65
Coil Leaving Air Wetbulb (F	58.6	MBH Saved Winter	16.2
Coil Leaving Air Wetbulb (F	58.6	KW Saved Winter	13.2
OA MBH Saved Summer*	18.1		
OA TONS Saved Summer*	6.6		

*OA = Outside Air
**OSHA, NIOSH & WHO most conservative values us
http://www.cdc.gov/niosh/topics/ch.html

Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the VRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority**
Acetaldehyde	200.0	0.01121	0.00336	Yes	0.00048	50%	OSHA
Acetone	250.0	0.00171	0.00037	Yes	0.00054	50%	NIOSH
Ammonia	35.00	0.01626	0.00636	Yes	0.21480	50%	NIOSH
Benzene	1.0000	0.00254	0.00034	Yes	0.00033	50%	OSHA
D. Butanone (MEK)	200.0	0.00019	0.00006	Yes	0.00133	50%	NIOSH
Carbon dioxide**	5000	1113	1992	Yes	491	0%	NIOSH
Chloroform	2.0000	0.00011	0.00001	Yes	0.00004	50%	NIOSH
Formaldehyde	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Hydrogen Sulfide	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Methane	NA	1.68094	1.69344	Yes	0.00000	0%	NA
Methanol	200.0	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Methylene Chloride	25.0	0.00072	0.00011	Yes	0.00121	50%	OSHA
Propane	1000.0	0.00098	0.00098	Yes	0.00000	0%	NIOSH
Tetrachloroethane	5.0000	0.00000	0.00000	Yes	0.00000	50%	OSHA
Tetrachloroethylene	100.0000	0.00037	0.00005	Yes	0.00002	50%	OSHA
Toluene	100.0000	0.00537	0.00072	Yes	0.00055	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00084	0.00035	Yes	0.00007	50%	NIOSH
Xylene	100.0000	0.00350	0.00045	Yes	0.00024	50%	OSHA

1 = ASHRAE & NIOSH CO2 Limit
2 = CO2 Level at Ventilation Rate OA Flow Rate
3 = CO2 Level at IAQ Procedure OA Flow Rate



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Building materials and furnishings assumed to have no VOCs and off-gassing is complete.	VAQ acceptable at reduced outside air levels?
All yellow shaded boxes require user input or review	Yes

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Engineer	
Contractor	

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Exhaust flow rates may differ from Table 6.5 based on ASHRAE 62 IAQP via Section 6.5.2

2 GYM GPS CALCULATIONS
NO SCALE

Global Plasma Solutions
10 Mall Terrace, Building C
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Phone: (912) 356-0115 Fax: (912) 356-0114
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Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft)	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 Ra	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Voz/Ez)
Classroom 1130	Educational Facilities	Classrooms (AGES 5 to 8)	914.0	23.0	10.0	0.12	230	110	1.0	340
										OA required per VRP

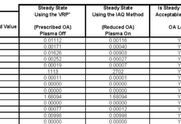
Zone Height (feet)	10.0
Cleaned Outside Air (Voz) (AQM)	115
Supply Air (Vs)	365
Return Air (Vr)	315 CFM
Recirc. Flow Factor (Er)	0.85
Ventilation Effectiveness (Ez)	1.0
Level of Physical Activity	Standing (desk work)
Filter Location	R
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant

Air Changes Per Hour	0.6	VRP OA CFM per person	14.8
Outside Air Per VRP	365 CFM	f AQ OA CFM per person	5.0
Outside Air Per Hour	115 CFM		
Outside Air Savings	0 CFM	Winter Heating Savings	
OA Summer Drybulb	94.0	OA Winter Design DB (F)	45
OA Summer Wetbulb	78.0	Supply Air DB Setpoint (F)	65
Coil Leaving Air Drybulb (F	65.0	MBH Saved Winter	0.0
Coil Leaving Air Wetbulb (F	58.6	KW Saved Winter	2.9
OA MBH Saved Summer*	16.4		
OA TONS Saved Summer*	1.6		

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Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the VRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority**
Acetaldehyde	200.0	0.01121	0.00336	Yes	0.00048	50%	OSHA
Acetone	250.0	0.00171	0.00037	Yes	0.00054	50%	NIOSH
Ammonia	35.00	0.01626	0.00636	Yes	0.21480	50%	NIOSH
Benzene	1.0000	0.00254	0.00034	Yes	0.00033	50%	OSHA
D. Butanone (MEK)	200.0	0.00019	0.00006	Yes	0.00133	50%	NIOSH
Carbon dioxide**	5000	1114	1992	Yes	491	0%	NIOSH
Chloroform	2.0000	0.00011	0.00001	Yes	0.00004	50%	NIOSH
Formaldehyde	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Hydrogen Sulfide	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Methane	NA	1.68094	1.69344	Yes	0.00000	0%	NA
Methanol	200.0	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Methylene Chloride	25.0	0.00072	0.00011	Yes	0.00121	50%	OSHA
Propane	1000.0	0.00098	0.00098	Yes	0.00000	0%	NIOSH
Tetrachloroethane	5.0000	0.00000	0.00000	Yes	0.00000	50%	OSHA
Tetrachloroethylene	100.0000	0.00037	0.00005	Yes	0.00002	50%	OSHA
Toluene	100.0000	0.00537	0.00072	Yes	0.00055	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00084	0.00035	Yes	0.00007	50%	NIOSH
Xylene	100.0000	0.00350	0.00045	Yes	0.00024	50%	OSHA

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2 = CO2 Level at Ventilation Rate OA Flow Rate
3 = CO2 Level at IAQ Procedure OA Flow Rate



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Building materials and furnishings assumed to have no VOCs and off-gassing is complete.	VAQ acceptable at reduced outside air levels?
All yellow shaded boxes require user input or review	Yes

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Contractor	

IMC 2006 & later allows for ASHRAE 62 IAQP through the engineered exception found in Section 403.2
Exhaust flow rates may differ from Table 6.5 based on ASHRAE 62 IAQP via Section 6.5.2

5 CLASSROOM 1130 GPS CALCULATIONS
NO SCALE

Global Plasma Solutions
10 Mall Terrace, Building C
Savannah, GA 31406
Phone: (912) 356-0115 Fax: (912) 356-0114
Email: info@globalplasmasolutions.com Web: www.globalplasmasolutions.com
VERSION 1.6 running ASHRAE 62.1-2013

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft)	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 Ra	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Voz/Ez)
Office 1102	Sports & Entertainment	Office Space	146.0	5.0	5.0	0.06	5	9	1.0	14
										OA required per VRP

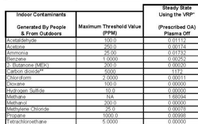
Zone Height (feet)	10.0
Cleaned Outside Air (Voz) (AQM)	5
Supply Air (Vs)	365
Return Air (Vr)	360
Recirc. Flow Factor (Er)	0.94
Ventilation Effectiveness (Ez)	1.0
Level of Physical Activity	Standing (desk work)
Filter Location	R
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant

Air Changes Per Hour	0.5	VRP OA CFM per person	13.0
Outside Air Per VRP	14 CFM	f AQ OA CFM per person	5.0
Outside Air Per Hour	5 CFM		
Outside Air Savings	9 CFM	Winter Heating Savings	
OA Summer Drybulb	94.0	OA Winter Design DB (F)	45
OA Summer Wetbulb	78.0	Supply Air DB Setpoint (F)	65
Coil Leaving Air Drybulb (F	65.0	MBH Saved Winter	0.4
Coil Leaving Air Wetbulb (F	58.6	KW Saved Winter	0.1
OA MBH Saved Summer*	0.5		
OA TONS Saved Summer*	0.1		

*OA = Outside Air
**OSHA, NIOSH & WHO most conservative values us
http://www.cdc.gov/niosh/topics/ch.html

Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the VRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority**
Acetaldehyde	200.0	0.01121	0.00363	Yes	0.00048	50%	OSHA
Acetone	250.0	0.00171	0.00054	Yes	0.00054	50%	NIOSH
Ammonia	35.00	0.01626	0.00466	Yes	0.21480	50%	NIOSH
Benzene	1.0000	0.00254	0.00014	Yes	0.00033	50%	OSHA
D. Butanone (MEK)	200.0	0.00019	0.00020	Yes	0.00133	50%	NIOSH
Carbon dioxide**	5000	1172	1992	Yes	491	0%	NIOSH
Chloroform	2.0000	0.00011	0.00001	Yes	0.00004	50%	NIOSH
Formaldehyde	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Hydrogen Sulfide	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Methane	NA	1.68094	1.69344	Yes	0.00000	0%	NA
Methanol	200.0	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Methylene Chloride	25.0	0.00072	0.00037	Yes	0.00121	50%	OSHA
Propane	1000.0	0.00098	0.00098	Yes	0.00000	0%	NIOSH
Tetrachloroethane	5.0000	0.00000	0.00000	Yes	0.00000	50%	OSHA
Tetrachloroethylene	100.0000	0.00037	0.00005	Yes	0.00002	50%	OSHA
Toluene	100.0000	0.00537	0.00072	Yes	0.00055	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00084	0.00035	Yes	0.00007	50%	NIOSH
Xylene	100.0000	0.00350	0.00045	Yes	0.00024	50%	OSHA

1 = ASHRAE & NIOSH CO2 Limit
2 = CO2 Level at Ventilation Rate OA Flow Rate
3 = CO2 Level at IAQ Procedure OA Flow Rate


Carbon dioxide**
5000
1172
2992

COMcheck Software Version 4.1.5.1

Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	2560 - Verbena ES Classroom & Kitchen
Location:	Tuscaloosa, Alabama
Climate Zone:	3a
Project Type:	New Construction

Construction Site:
4690 Highway 31
Verbena, AL 36091

Owner/Agent:

Designer/Contractor:

Mechanical Systems List

Quantity	System Type & Description
1	HP /FCU #1 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 32kBtu/h, Proposed Efficiency = 10.00 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 30kBtu/h, Proposed Efficiency = 19.00 SEER, Required Efficiency: 14.00 SEER Fan System: HP /FCU #1 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 1000 CFM, 0.3 motor nameplate hp, 100.0 fan efficiency grade
1	HP /FCU #2 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 16kBtu/h, Proposed Efficiency = 11.50 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 12kBtu/h, Proposed Efficiency = 23.70 SEER, Required Efficiency: 14.00 SEER Fan System: HP /FCU #2 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 359 CFM, 0.1 motor nameplate hp, 100.0 fan efficiency grade
3	WHP #1 - 3 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 27 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 29kBtu/h, Air-Cooled Condenser Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER Fan System: WHP #1 - 3 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 3 Supply, Constant Volume, 980 CFM, 0.5 motor nameplate hp, 100.0 fan efficiency grade
1	P-12: Electric Storage Water Heater, Capacity: 10 gallons No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	2560 - Verbena ES Classroom & Kitchen
Location:	Tuscaloosa, Alabama
Climate Zone:	3a
Project Type:	New Construction

Consruction Site:
4690 Highway 31
Verbena, AL 36091

Owner/Agent:

Designer/Contractor:

Mechanical Systems List

Quantity	System Type & Description
2	WHP #4, 5 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 54 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package Vertical AC Unit, Capacity = 57 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.00 EER, Required Efficiency: 10.00 EER Fan System: WHP #4, 5 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 1750 CFM, 0.8 motor nameplate hp, 100.0 fan efficiency grade
1	HP / FCU #3 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 66 kBtu/h, Proposed Efficiency = 10.50 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 60 kBtu/h, , Air Economizer Proposed Efficiency = 16.50 SEER, Required Efficiency: 14.00 SEER Fan System: HP / FCU #3 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 1700 CFM, 0.8 motor nameplate hp, 100.0 fan efficiency grade
1	HP #4 (Single Zone): VRF Condensing Unit, Air Cooled Heat Pump Heating Mode: Capacity = 22 kBtu/h, Proposed Efficiency = 10.50 HSPF, Required Efficiency = 7.70 HSPF Cooling Mode: Capacity = 18 kBtu/h, Proposed Efficiency = 19.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	FCU #4-1, -2 (Single Zone): Cooling: 2 each - VRF Zone Fan Unit, Capacity = 9 kBtu/h No minimum efficiency requirement applies Fan System: FCU #4-1, -2 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 3 Supply, Constant Volume, 313 CFM, 0.1 motor nameplate hp, 100.0 fan efficiency grade
1	P-14: Electric Storage Water Heater, Capacity: 120 gallons w/ Circulation Pump Proposed Efficiency: 0.53 SL, %/h (if > 12 kW), Required Efficiency: 0.53 SL, %/h (if > 12 kW)

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	2560 - Verbena ES Classroom & Kitchen
Location:	Tuscaloosa, Alabama
Climate Zone:	3a
Project Type:	New Construction

Construction Site:
4690 Highway 31
Verbena, AL 36091

Owner/Agent:

Designer/Contractor:

Mechanical Systems List

Quantity	System Type & Description
3	HP / FCU #5, 6, 7 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 66 kBtu/h, Proposed Efficiency = 10.50 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 60 kBtu/h, , Air Economizer Proposed Efficiency = 16.50 SEER, Required Efficiency: 14.00 SEER Fan System: HP / FCU #5, 6, 7 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 4827 CFM, 0.3 motor nameplate hp, 100.0 fan efficiency grade
1	HP / FCU #8 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 38 kBtu/h, Proposed Efficiency = 9.80 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 36 kBtu/h, Proposed Efficiency = 17.60 SEER, Required Efficiency: 14.00 SEER Fan System: HP / FCU #8 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 1207 CFM, 0.5 motor nameplate hp, 100.0 fan efficiency grade
1	P-13: Electric Storage Water Heater, Capacity: 10 gallons No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Lee Stegall - ME — Name - Title
Signature
10/04/25 — Date

mandatory requirements listed in the Inspection Checklist.

Lee Stegall - ME — Name - Title
Signature
11/26/25 — Date

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Lee Stegall - ME — Name - Title
Signature
10/04/25 — Date

3 GYMNASIUM MECHANICAL COMCHECK
NO SCALE

2 KITCHEN MECHANICAL COMCHECK
NO SCALE

1 CLASSROOM ADDITION MECHANICAL COMCHECK
NO SCALE

STATE OF ALABAMA
LICENSED
NO. 22630
PROFESSIONAL
ENGINEER
FRANK STEGALL
01/14/26 *2560

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Consulting Engineers
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VERBENA ELEMENTARY ANNEX CLASSROOM, KITCHEN AND ACTIVITY BUILDING ADDITIONS
4690 HIGHWAY 31, VERBENEA, ALABAMA
CHILTON COUNTY BOARD OF EDUCATION

CONSTRUCTION DOCUMENTS

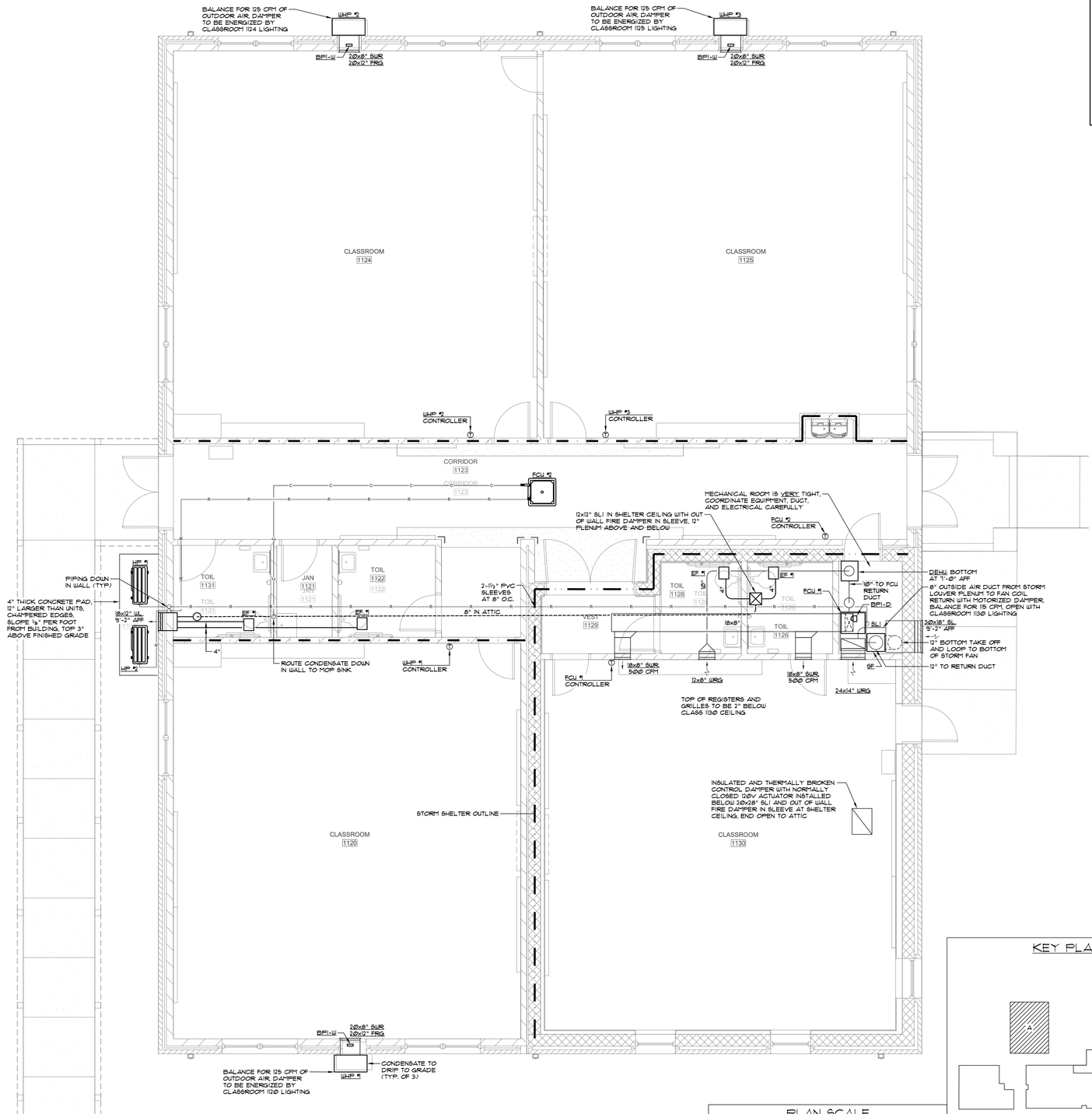
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PROJ NO: 25-060

REVISIONS

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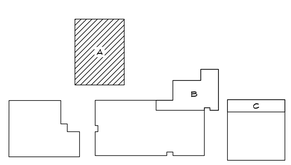
MECHANICAL COMCHECKS

M003



1 SECTION 'A' - CLASSROOMS HVAC PLAN
1/4" = 1'-0"

KEY PLAN



PLAN SCALE

0' 4' 16'
2' 8'

STATE OF ALABAMA LICENSED NO. 22530 PROFESSIONAL ENGINEER FRANK STEGALL
01/14/26 *2540

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4690 HIGHWAY 31, VERBENEA, ALABAMA
CHILTON COUNTY BOARD OF EDUCATION

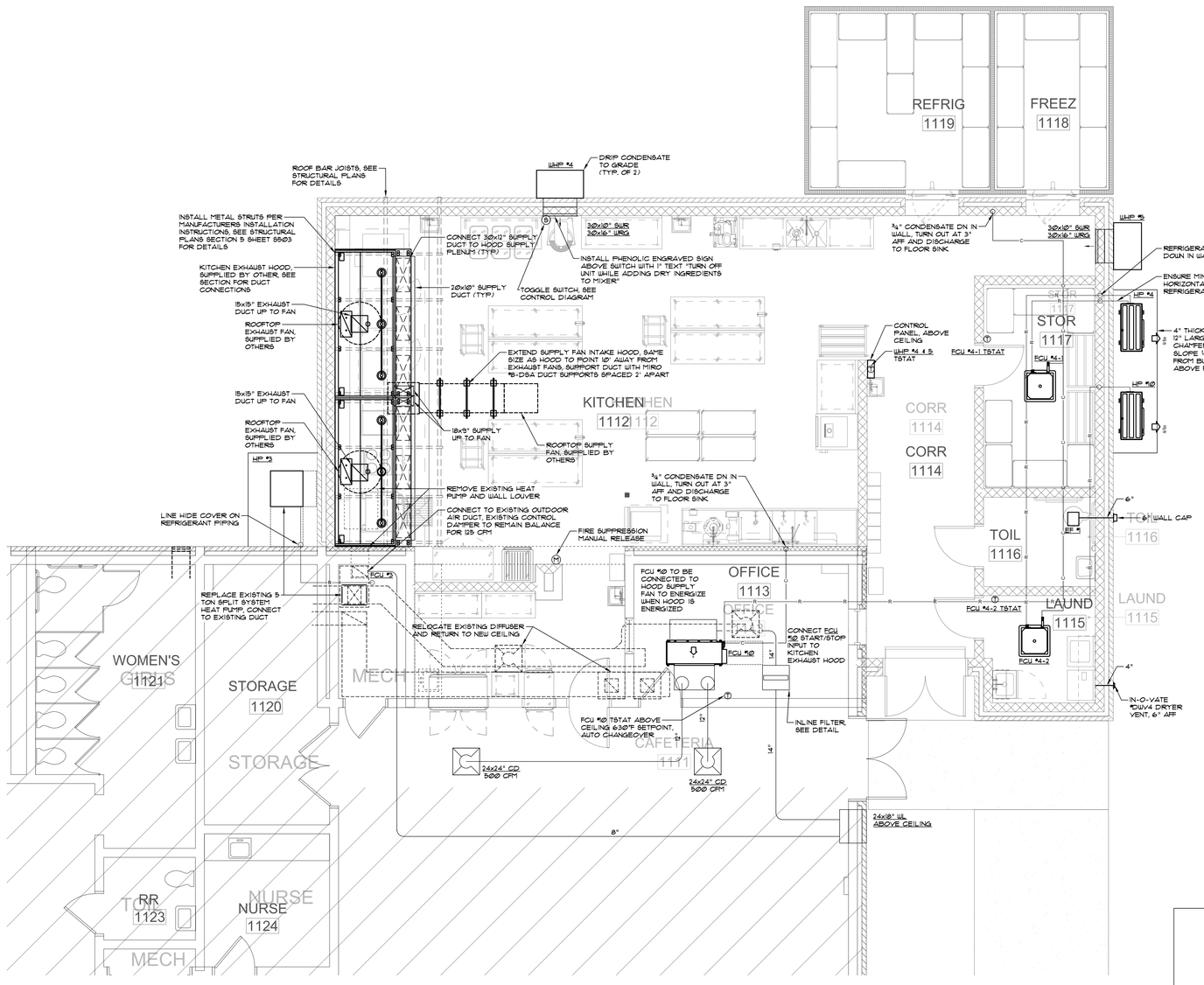
CONSTRUCTION DOCUMENTS

DATE: 01/14/26
PROJ NO: 25-060

REVISIONS		
#	DESC	DATE

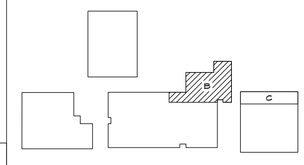
SECTION 'A' - CLASSROOMS HVAC PLAN

M101



1 SECTION 'B' - KITCHEN HVAC PLAN
1/4" = 1'-0"

KEY PLAN



PLAN SCALE

0' 4' 16'
2' 8'

STATE OF ALABAMA
LICENSED
NO. 22530
PROFESSIONAL
ENGINEER
FRANK SPECIALTY
01/14/26 *2560

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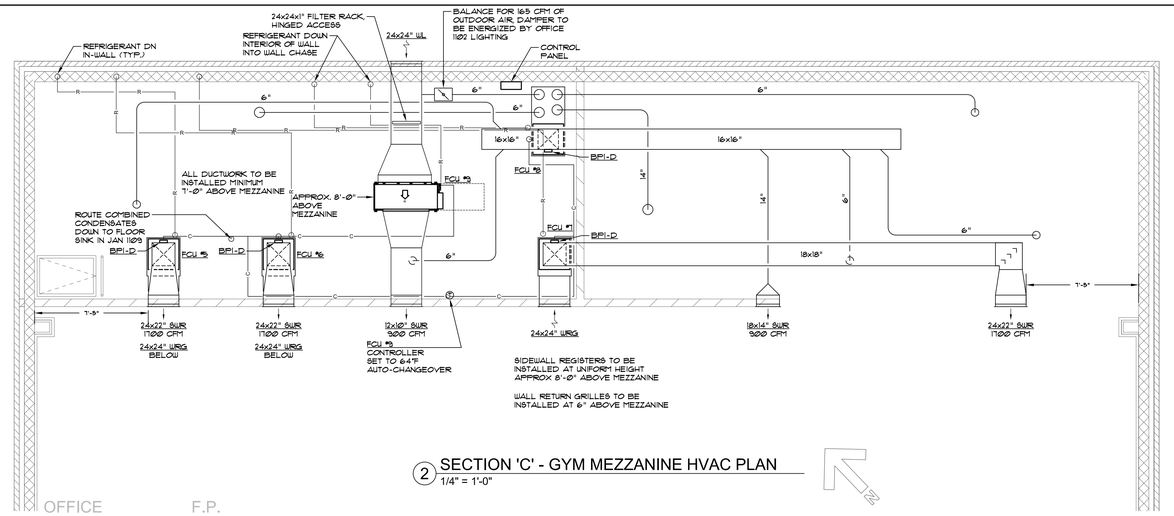
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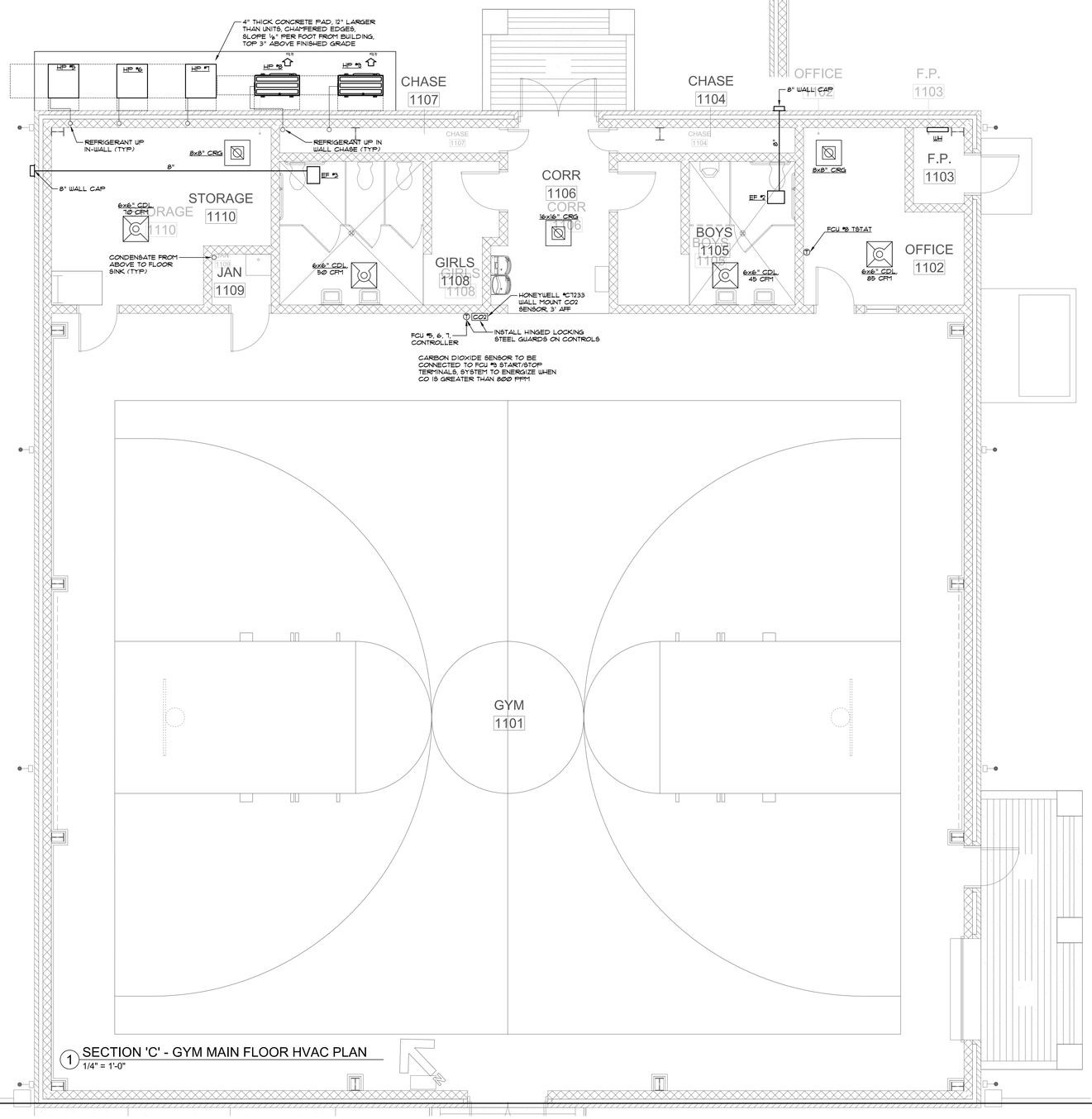
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SECTION 'B' - KITCHEN HVAC PLAN

M102

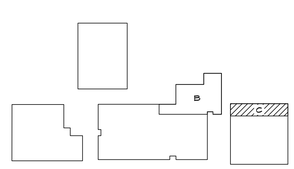


2 SECTION 'C' - GYM MEZZANINE HVAC PLAN
1/4" = 1'-0"



1 SECTION 'C' - GYM MAIN FLOOR HVAC PLAN
1/4" = 1'-0"

KEY PLAN



PLAN SCALE

0' 4' 16'
2' 8'

STATE OF ALABAMA LICENSED PROFESSIONAL ENGINEER FRANK STEGALL NO. 22530
01/14/26 *3540

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DATE: 01/14/26
PROJ NO: 25-060

REVISIONS

#	DESC	DATE

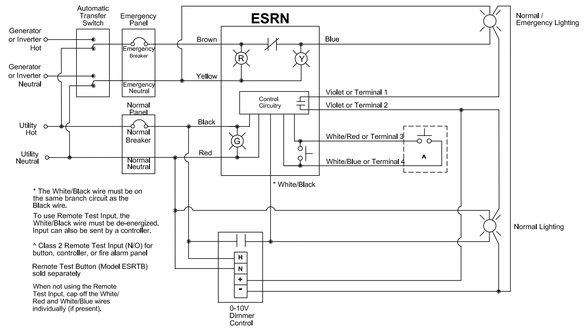
SECTION 'C' - GYM HVAC PLAN

M103

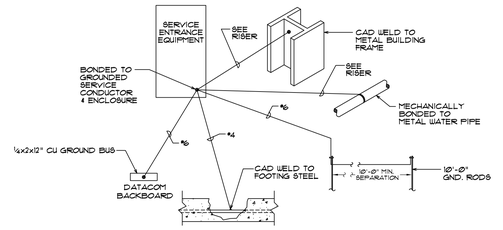
ABBREVIATIONS: AFF-ABOVE FINISHED FLOOR, CBB-COMMUNICATIONS BACK BOARD, NEC - NATIONAL ELECTRICAL CODE, WP-WEATHERPROOF, RT - RAIN TIGHT, WG - WIRE GUARD

- CEILING OUTLET, LUMINAIRE TYPE "A", CIRCUIT #1 (TYPICAL)
- TROFFER, RECESS MOUNTED IN CEILING
- WALL OUTLET, LUMINAIRE
- WALL OUTLET, EXIT LUMINAIRE
- WALL OUTLET, LINEAR LUMINAIRE, SURFACE MOUNTED
- CEILING OUTLET, LINEAR LUMINAIRE, MOUNTING AS PER LUMINAIRE SCHEDULE'
- CEILING OUTLET, RECESSED IN CEILING
- WALL OUTLET, 20A SWITCH, 46" AFF, SUBSCRIPT INDICATES TYPE AS FOLLOWS: NO SUBSCRIPT - SINGLE POLE, '2' - 2-POLE, '3' - 3-WAY, '4' - 4-WAY, 'P' - PILOT LIGHT
- WALL OUTLET, 2 HOUR ELECTRONIC TIMER SWITCH, 42" AFF LEVITON #LTB02-IL OR EQUAL, ENGRAVED PLATE "EMERGENCY STORM SHELTER VENTILATION"
- WALL OUTLET, OCCUPANCY SENSOR, 46" AFF, SUBSCRIPT INDICATES CRESTRON NO. AS FOLLOWS: NO SUBSCRIPT - *GLA-DT-WL6-1 (DUAL TECHNOLOGY, SINGLE RELAY, ONE BUTTON), '3' - *GLA-DT-WL6-1 (DUAL TECHNOLOGY, SINGLE RELAY, ONE BUTTON, SWITCH LINK FOR MULTI-LOCATION), 'D' - *GLA-DT-WL6-DIM (DUAL TECHNOLOGY, SINGLE RELAY, 3 BUTTONS W/ 0-10V DIMMING), '3D' - *GLA-DT-WL6-DIM (DUAL TECHNOLOGY, SINGLE RELAY, 3 BUTTONS W/ 0-10V DIMMING, SWITCH LINK FOR MULTI-LOCATION), PROGRAM FOR AUTOMATIC 'ON' / AUTOMATIC 'OFF'
- WALL OUTLET, VACANCY SENSOR, 46" AFF, SUBSCRIPT INDICATES CRESTRON NO. AS FOLLOWS: NO SUBSCRIPT - *GLA-DT-WL6-1 (DUAL TECHNOLOGY, SINGLE RELAY, ONE BUTTON), '3' - *GLA-DT-WL6-1 (DUAL TECHNOLOGY, SINGLE RELAY, ONE BUTTON, SWITCH LINK FOR MULTI-LOCATION), 'D' - *GLA-DT-WL6-DIM (DUAL TECHNOLOGY, SINGLE RELAY, 3 BUTTONS W/ 0-10V DIMMING), '3D' - *GLA-DT-WL6-DIM (DUAL TECHNOLOGY, SINGLE RELAY, 3 BUTTONS W/ 0-10V DIMMING, SWITCH LINK FOR MULTI-LOCATION), PROGRAM FOR MANUAL 'ON' / AUTOMATIC 'OFF'
- WALL OUTLET, LIGHTING CONTROL WALL STATION, 4" SQ BOX WITH SINGLE GANG COVER, 46" AFF, ¾" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH BUSHING. SUBSCRIPT INDICATES nLIGHT MODEL NO. AS FOLLOWS: NO SUBSCRIPT - *NPDDMA, 'D' - *NPDDMA-DX, '2' - *NPDDMA-2P, '2D' - *NPDDMA-2PDX, '4' - *NPDDMA-4P, 'T' - *NPDD-TOUCH (TOUCH SCREEN WITH POWER SUPPLY.)
- CEILING OUTLET, LIGHTING CONTROL SYSTEM PEDESTAL MOUNT OCCUPANCY SENSOR, nLIGHT *NMVPDT16-KIT
- WALL OUTLET, 18'-0" AFF, CORNER MOUNT, LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR, nLIGHT *NMVPDT16-KIT
- CEILING OUTLET, LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR, SUBSCRIPT INDICATES nLIGHT MODEL NO. AS FOLLOWS: NO SUBSCRIPT- *NCM-6-RJ9 (SMALL MOTION), 'L' - *NCM-10-RJ9 (LARGE MOTION), 'H' - *NCM-6-RJ9 (HIGH MOUNT), 'D' - *NCM-PDT-6-RJ9 (DUAL-TECH.)
- LIGHTING CONTROL SYSTEM POWER/ RELAY PACK MOUNTED TO 4" SQ BOX ABOVE ACCESSIBLE CEILING OR ON WALL AS PER PLAN nLIGHT *NPP16-DS-EFP-SA (DIMMING)
- UL924 EMERGENCY LIGHTING LIGHTING RELAY, FUNCTIONAL DEVICES #E6RN
- WALL OUTLET, PHOTOCELL, TORK #2101, 36' AFF
- WALL OUTLET, 20A DUPLEX TAMPER RESISTANT RECEPTACLE, 18" AFF
- WALL OUTLET, 20A GROUND FAULT INTERRUPTER DUPLEX TAMPER RESISTANT RECEPTACLE, CENTERLINE 18" AFF
- WALL OUTLET, 20A GROUND FAULT INTERRUPTER DUPLEX TAMPER AND WEATHER RESISTANT RECEPTACLE, 18" AFF, DAMP LOCATIONS TO HAVE STANDARD WP COVER, WET LOCATIONS TO HAVE "IN-USE" WP COVERS W/ EXTRA-DUTY HOODS.
- SPECIAL HEIGHT WALL OUTLET, SEE SPECIFICATIONS AND ARCHITECTURAL DETAILS OR AS NOTED ON PLAN
- WALL OUTLET, 2 GANG, 18" AFF, TWO 20A DUPLEX TAMPER RESISTANT RECEPTACLES (QUAD)
- MULTI-SERVICE WALL BOX, 2-GANG, FLUSH MOUNT, WIREMOLD #FSB2, INSTALL 20A DUPLEX TAMPER RESISTANT RECEPTACLE, STUB ONE (1) 2" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE DATA AND A/V CABLING, BUSHING ON CONDUIT END. 14" AFF TO BOTTOM
- WALL OUTLET, 120/240V, DRYER RECEPTACLE, NEMA 14-30, 34" AFF
- MULTI-SERVICE FLUSH FLOOR OUTLET, HEAVY DUTY, COLE #TLS-353-3 W/DUPLEX RECEPTACLES, POWER AS INDICATED ON POWER WIRING PLAN
- WALL OUTLET, 46" AFF, CONTROLLER FURNISHED WITH EQUIPMENT INSTALLED BY ELECTRICAL CONTRACTOR, CONTROL WIRING AS REQUIRED
- CONNECTION TO OVERHEAD DOOR OPERATOR
- HOME RUN 2#2-½" C.-3#6-¾"C. ETC. AS PER N.E.C. EQUIPMENT GROUNDING CONDUCTOR TO BE PULLED IN ALL RACEWAYS IS NOT INDICATED BY A SLASH MARK.
- BRANCH CIRCUIT CONCEALED IN WALL OR CEILING
- FLEXIBLE CONDUIT CONNECTION, SEAL-TITE ON EXTERIOR
- BRANCH CIRCUIT EXPOSED ON WALL OR CEILING
- BRANCH CIRCUIT CONCEALED IN OR UNDER FLOOR, SEE SPECIFICATIONS FOR CIRCUIT TYPE
- EMERGENCY BRANCH CIRCUIT
- CEILING J-BOX
- WALL J-BOX
- CONNECTION TO FRACTIONAL HP MOTOR
- CONNECTION TO MOTOR LOAD, HP, AS INDICATED.
- NON-FUSED DISCONNECT SWITCH, TYPE HD
- FUSED DISCONNECT SWITCH, TYPE HD
- PANELBOARD
- EQUIPMENT TOGGLE DISCONNECT SWITCH, CEILING OR WALL MOUNTED AS INDICATED, LOCATIONS WITH CONCEALED CONDUIT TO BE FLUSH 2 GANG OUTLET WITH 3R PLATE, OTHER LOCATIONS TO BE 4x4" J-BOX WITH RAISED DEVICE COVER. LOCATE ADJACENT TO EQUIPMENT IN COMPLIANCE WITH N.E.C., SUFFIX INDICATES SWITCH TYPE AS FOLLOWS: NO SUBSCRIPT - SINGLE POLE 20A, '2' - 2 POLE 30A EQUAL TO HUBBELL #HBL1832D, 'P' - 3 POLE 30A EQUAL TO MITSUBISHI #TA23P3D3
- CORD DROP, SEE DETAIL
- INV 1 — INVERTER #1, 3.1 KVA, 120V INPUT, 120V OUTPUT, TWO 20/1 NORMALLY ON OUTPUT BREAKERS, 120 MIN. RUN TIME, 20 YEAR BATTERY LIFE, FACTORY START-UP, MAX DEPTH OF 20", DUAL-LITE "D-120-31-G-120-A-20-00-U-AR120-FBL OR EQUAL
- INV 2 — INVERTER #1, 1.0 KVA, 120V INPUT, 120V OUTPUT, ONE 20/1 NORMALLY ON OUTPUT BREAKER, 90 MIN RUN TIME, 20 YEAR BATTERY LIFE, FACTORY START-UP, DUAL-LITE "D-120-01-G-120-A-20-01 OR EQUAL

1 ELECTRICAL SYMBOLS
NO SCALE



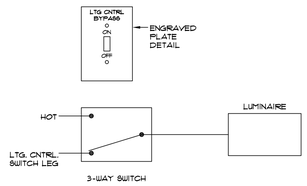
8 EMERGENCY LIGHTING CONTROL UNIT WIRING DIAGRAM
NOT TO SCALE



9 SERVICE GROUNDING DIAGRAM
NOT TO SCALE

10 GENERAL NOTES
NO SCALE

- ALL HEIGHTS ARE CENTERLINE UNLESS NOTED OTHERWISE
- INSTALL FIRESTOPPING IN ALL PENETRATIONS OF FIRE-RATED WALLS OR CEILINGS USING APPROVED FIRESTOPPING MATERIALS AND METHODS IN ORDER TO MAINTAIN FIRE-RATING INTEGRITY
- VERIFY EXACT REQUIREMENTS FOR ALL EQUIPMENT REQUIRING POWER PRIOR TO ROUGH-IN AND ADJUST CONDUIT SIZE, WIRE SIZE AND OVERCURRENT PROTECTION SIZE.
- FOR PROJECTS UNDER THE JURISDICTION OF THE ALABAMA DIVISION OF CONSTRUCTION MANAGEMENT, ENGINEER REQUEST EXCEPTION TO THE REQUIREMENTS OF ASHRAE 90.1-2013, SECTION 8.4.2, AUTOMATIC RECEPTACLE CONTROL

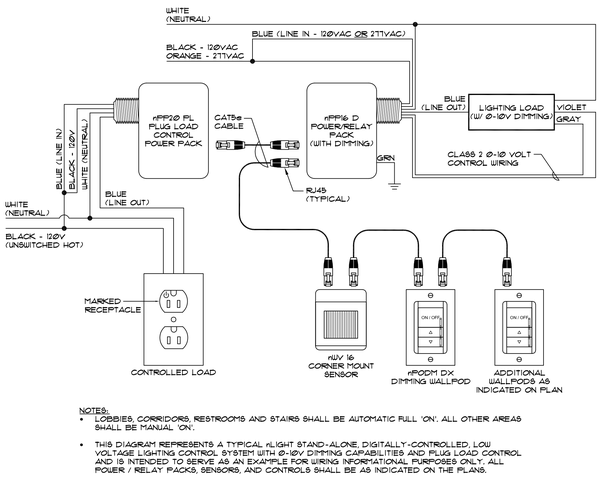


11 WIRING DIAGRAM FOR BYPASS OF AUTOMATIC LIGHTING CONTROLS
NO SCALE

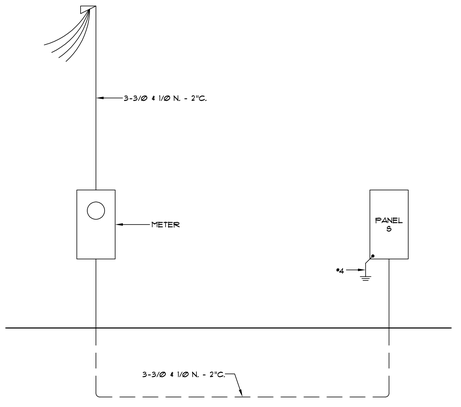
ALABAMA LICENSED No. 18365 PROFESSIONAL ENGINEER JONATHAN H. SMITH
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2119 Eighth Street
Tuscaloosa, Alabama 35401
Phone/Fax 205 345 4402
E-mail info@smithspc.com

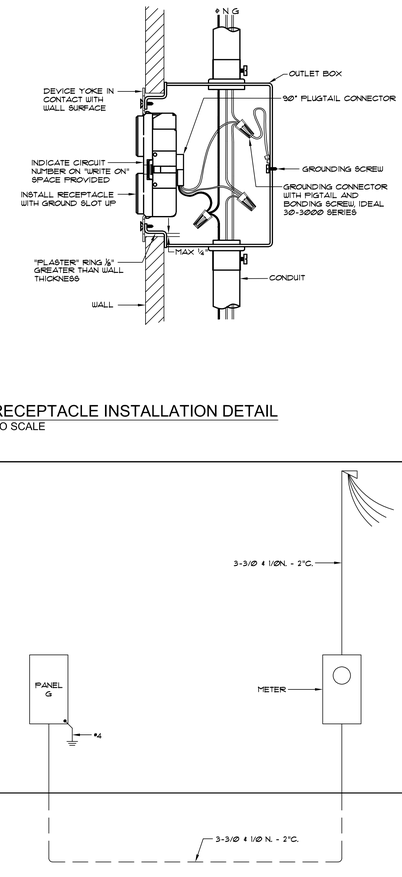
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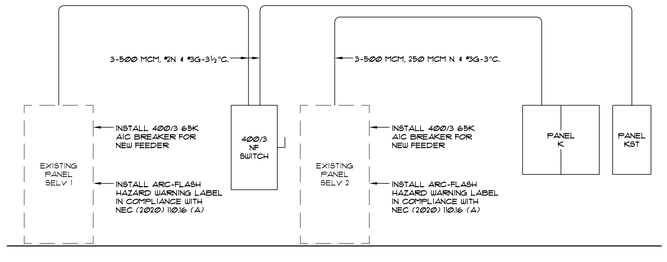
5 LOW VOLTAGE LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE



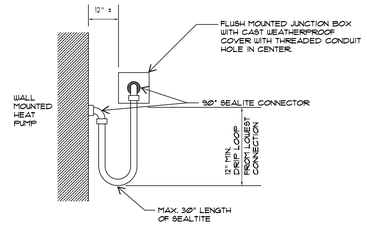
6 CLASSROOM ADDITION RISER DIAGRAM
NOT TO SCALE



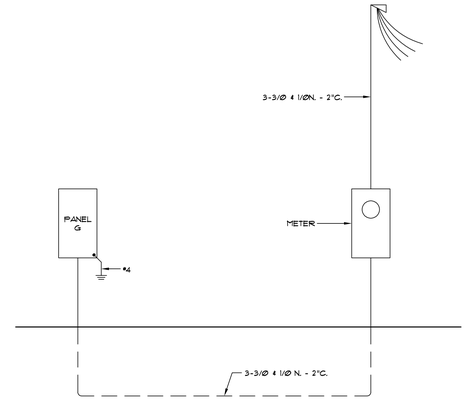
7 RECEPTACLE INSTALLATION DETAIL
NO SCALE



2 KITCHEN ADDITION RISER DIAGRAM
NO SCALE



3 WALL HEAT PUMP CONNECTION DETAIL
NO SCALE



4 ACTIVITY BUILDING RISER DIAGRAM
NOT TO SCALE

VERBENA ELEMENTARY ANNEX CLASSROOM, KITCHEN AND ACTIVITY BUILDING ADDITIONS
4690 HIGHWAY 31, VERBENEA, ALABAMA
CHILTON COUNTY BOARD OF EDUCATION

CONSTRUCTION DOCUMENTS

DATE: 01/14/26
PROJ NO: 25-060

REVISIONS

#	DESC	DATE

ELECTRICAL SYMBOLS, DETAILS & DIAGRAMS

E001

SYMBOL	MANUFACTURER	CATALOG NUMBER	WATTS	MOUNTING	REMARKS	ALTERNATES
A	COLUMBIA LIGHTING	SAV-ML-35-8-WA22-N-U-***-UG23A16	155	CEILING PENDANT	1	LITHONIA, LSI LIGHTING
C2Ø(E)	LITELINE LIGHTING	GEN04-2Ø-35-N-HU-S-(N OR (E))-X-N-1	3Ø	SURFACE CEILING	(2)	PRESCOLITE, JUNO
E	MULE LIGHTING	MERU-LED-ACEM-**	-	SURFACE WALL	12	EMERGI-LITE, DUAL-LITE
F2(E)	LITELINE LIGHTING	LEDP-22-WH-35K-3Ø-2(-EM)	3Ø	SURFACE CEILING	(2)	LITHONIA, COLUMBIA
F2H(E)	LITELINE LIGHTING	LEDP-22-WH-35K-4Ø-2(-EM)	4Ø	SURFACE CEILING	(2)	LITHONIA, COLUMBIA
F4L(E)	LITELINE LIGHTING	LEDP-24-WH-35K-3Ø-2(-EM)	3Ø	SURFACE CEILING	(2)	LITHONIA, COLUMBIA
F4	LITELINE LIGHTING	LEDP-24-WH-35K-4Ø-2	4Ø	SURFACE CEILING		LITHONIA, COLUMBIA
F4H(E)	LITELINE LIGHTING	LEDP-24-WH-35K-5Ø-2(-EM)	5Ø	SURFACE CEILING	(2)	LITHONIA, COLUMBIA
G	CGF LIGHTING	TA2-RD-LED3Ø-CT3-UNV-***-BLD	3Ø	SURFACE CEILING	13	ECLIPSE, ADVANTAGE
H	CGF LIGHTING	E6Ø4-LED36-CT3-UNV-***-BLD	36	SURFACE CEILING	13	ECLIPSE, ADVANTAGE
S4(E)	LSI LIGHTING	SDL4-LED-4ØL-FL-UNV-DIMI-35-8ØCRI(-EMIØ)	3Ø	SUSPENDED 9'-Ø" AFF		LITHONIA, HUBBELL
T	LSI LIGHTING	XWB-LED-5L-5IL-FT-UNV-DIM-4Ø-8ØCRI-IMSBTIL-**	4Ø	SURFACE WALL	13	LITHONIA, HUBBELL
XG	MULE LIGHTING	WLPCX-R-***-B-U	3	SURFACE CEILING OR WALL AS PER PLAN	2,4	EMERGI-LITE, DUAL-LITE
V	CGF LIGHTING	YU-24-HM-2ØU-CT35-UNV-**	2Ø	SURFACE WALL	1	ECLIPSE, ADVANTAGE

REMARKS:
1. FINISH AS PER ARCHITECT
2. EMERGENCY BATTERY BACKUP
3. INTEGRAL MOTION SENSOR, 15 MIN. DELAY, 50% DIM
4. ARROW(S) AND FACE(S) AS PER PLAN

1 LUMINAIRE SCHEDULE
NO SCALE

PANEL 'K'					
DESCRIPTION: 120/208V, 3Φ, 4W, 400A, MLO, TOP, FLUSH, 10K AIC, 120KA INTEGRAL SPD., 2 EQUAL SECTIONS					
CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
RECEPTACLE	1	2Ø/1	2Ø/1	2	ICE MACHINE (48)
RECEPTACLE	3	2Ø/1	2Ø/1 GFI	4	RECEPTACLE - PROOF CAB (36)
(53) RECEPTACLE - REFRIG.	5	2Ø/1 GFI	2Ø/1 GFI	6	RECEPTACLE - REFRIG. (28)
CORD DROPS	7	2Ø/1 GFI	2Ø/1 GFI	8	RECEPTACLE - WASHER
CORD DROPS	9	2Ø/1 GFI	2Ø/1	10	FLY FAN (1)
CORD DROPS	11	2Ø/1 GFI	2Ø/1	12	RECEPTACLE
(24) RECEPTACLE - SLICER	13	2Ø/1	15/1	14	WALK-IN FREEZER (2)
RECEPTACLE	15	2Ø/1	15/1	16	WALK-IN COOLER (3)
(32) RECEPTACLE - MIXER	17	2Ø/1	15/1	18	WALK-IN COOLER EVAP. (31)
(39) HOOD LTS, CONTROLS	19	2Ø/1	2Ø/1	20	PHOTOCELL / EXTERIOR LIGHTING
(39) HOOD SUPPRESSION SYSTEM	21	2Ø/1	2Ø/1	22	SPARE
(38) SHUNT TRIP CIRCUIT	23	2Ø/1	2Ø/1	24	SPARE
SPARE	25	2Ø/1	2Ø/1	26	SPARE
SPARE	27	2Ø/1	2Ø/1	28	SPARE
SPARE	29	2Ø/1	2Ø/1	30	SPARE
FCU 10	31	15/2		32	3Ø/1 PROVISION
	33			34	3Ø/1 PROVISION
HP 3	35	4Ø/2	45/3	36	3Ø/1 PROVISION
	37			38	WATER HEATER
HP 4	39	15/2		40	
	41			42	
DRYER	43	3Ø/2 GFI	2Ø/2 *	44	PASS THRU HEATED CAB (52)
	45			46	
(21) FREEZER COIL	47	15/2	2Ø/2	48	HOOD EXHAUST FAN (39)
	49			50	
(21) FREEZER COIL	51	15/2	2Ø/2	52	HOOD EXHAUST FAN (39)
	53			54	
WHP 4	55	45/3	45/3	56	WHP 5
	57			58	
	59			60	
(21) POT WASH	61	6Ø/3*	2Ø/3	62	FOOD WASTE DISPOSER (27)
	63			64	
	65			66	
(9) 3 COMP SINK	67	5Ø/3*	25/3	68	FOOD WASTE DISPOSER (11)
	69			70	
	71			72	
(22) FREEZER CONDENSER	73	2Ø/3	15/3	74	COOLER CONDENSER (32)
	75			76	
	77			78	
(22) FREEZER CONDENSER	79	2Ø/3	4Ø/3	80	HP 10
	81			82	
	83			84	

* PROVIDE PERMANENT PAD LOCK PROVISION

2 PANEL 'K' SCHEDULE
NO SCALE

PANEL 'S'					
DESCRIPTION: 120/208V, 3Φ, 4W, 200A, MAIN BRKR, BOTTOM, FLUSH, 10K AIC, SE LABEL, 250 KA INTEGRAL SPD					
CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
LIGHTING	1	2Ø/1	2Ø/1	2	RECEPTACLE - CR 113Ø
LIGHTING	3	2Ø/1	2Ø/1	4	RECEPTACLE - CR 113Ø
EXTERIOR LIGHTING / PHOTOCELL	5	2Ø/1	2Ø/1	6	RECEPTACLE - CR 113Ø
RECEPTACLE - CR 1124	7	2Ø/1	2Ø/1	8	RECEPTACLE - CR 112Ø
RECEPTACLE - CR 1124	9	2Ø/1	2Ø/1	10	RECEPTACLE - CR 112Ø
RECEPTACLE - CR 1124	11	2Ø/1	2Ø/1	12	RECEPTACLE - CR 112Ø
RECEPTACLE - CR 1125	13	2Ø/1	2Ø/1	14	RECEPTACLE
RECEPTACLE - CR 1125	15	2Ø/1	25/1	16	WATER HEATER
RECEPTACLE - CR 1125	17	2Ø/1	2Ø/1	18	BI-DIRECTIONAL AMPLIFIER (BDA)
RECEPTACLE - DEHUMIDIFIER	19	2Ø/1	** 2Ø/1	2Ø	FIRE ALARM CIRCUIT
INVERTER 1	21	2Ø/1	2Ø/1	22	RECEPTACLE - DATA RACK
SPARE	23	2Ø/1	2Ø/1	24	RECEPTACLE - CBB
SPARE	25	2Ø/1		26	3Ø/1 PROVISION
SPARE	27	2Ø/1		28	3Ø/1 PROVISION
SPARE	29	2Ø/1		3Ø	3Ø/1 PROVISION
WHP-1	31	25/2	15/2	32	FCU-2
	33			34	
WHP-2	35	25/2	15/2	36	HP-1
	37			38	
WHP-3	39	25/2	25/2	4Ø	HP-2
	41			42	

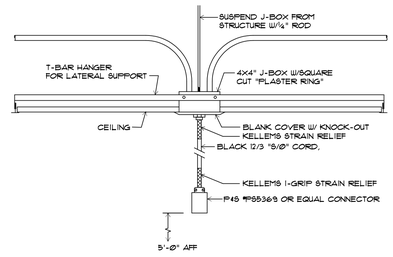
** RED HANDLE LOCK

5 PANEL 'S' SCHEDULE
NO SCALE

PANEL 'KST'					
DESCRIPTION: 120/208V, 3Φ, 4W, 400A, MAIN BRKR, SHUNT TRIP, TOP, FLUSH, 10K AIC, 120KA INTEGRAL SPD, SAME HEIGHT AS PANEL 'K'					
CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
3Ø/1 PROVISION	1		6Ø/3*	2	COMBINATION OVEN (42)
3Ø/1 PROVISION	3			4	
(39Z) HOOD SUPPLY FAN	5	3Ø/2		6	
	7		6Ø/3*	8	COMBINATION OVEN (42)
(44) TILT SKILLET	9	6Ø/2*		10	
	11			12	
(41) CONVECTION OVEN	13	100/3*	4Ø/3*	14	CONVECTION OVEN (43)
	15			16	
	17			18	
(43) CONVECTION OVEN	19	4Ø/3*	4Ø/3* GFI	20	RANGE (46)
	21			22	
	23			24	
(42) COMBINATION OVEN	25	6Ø/3*	6Ø/3*	26	COMBINATION OVEN (42)
	27			28	
	29			3Ø	
3Ø/1 PROVISION	31			32	3Ø/1 PROVISION
3Ø/1 PROVISION	33			34	3Ø/1 PROVISION
3Ø/1 PROVISION	35			36	3Ø/1 PROVISION
3Ø/1 PROVISION	37			38	3Ø/1 PROVISION
3Ø/1 PROVISION	39			4Ø	3Ø/1 PROVISION
3Ø/1 PROVISION	41			42	3Ø/1 PROVISION

* PROVIDE PERMANENT PAD LOCK PROVISION

3 PANEL 'KST' SCHEDULE
NO SCALE



6 KITCHEN DROP DETAIL
NO SCALE

PANEL 'G'					
DESCRIPTION: 120/208V, 3Φ, 4W, 200A, MAIN BRKR, BOTTOM, SURFACE, 10K AIC, SE LABEL, 250 KA INTEGRAL SPD					
CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
LIGHTING	1	2Ø/1	2Ø/1	2	RECEPTACLE - RESTROOM
LIGHTING	3	2Ø/1	GFI 2Ø/1	4	RECEPTACLE - WATER COOLER
LIGHTING	5	2Ø/1	2Ø/1	6	RECEPTACLE - OFFICE
EXTERIOR LIGHTING / PHOTOCELL	7	2Ø/1	2Ø/1	8	RECEPTACLE - GYM
HVAC CONTROL PANEL	9	2Ø/1	2Ø/1	10	RECEPTACLE - GYM
WATER HEATER	11	25/1	2Ø/1	12	WALL HEATER
FIRE ALARM CIRCUIT	13	2Ø/1**	2Ø/1	14	INVERTER 2
BI-DIRECTIONAL AMPLIFIER (BDA)	15	2Ø/1	2Ø/1	16	SPARE
RECEPTACLE - DATA RACK	17	2Ø/1	2Ø/1	18	SPARE
RECEPTACLE - CBB	19	2Ø/1	2Ø/1	2Ø	SPARE
HP 5	21	4Ø/2		22	3Ø/1 PROVISION
	23			24	3Ø/1 PROVISION
HP 6	25	4Ø/2	15/2	26	3Ø/1 PROVISION
	27			28	FCU 5
HP 7	29	4Ø/2		3Ø	
	31		15/2	32	FCU 6
HP 8	33	25/2		34	
	35		15/2	36	FCU 7
HP 9	37	4Ø/3		38	
	39		15/2	4Ø	FCU 9
	41			42	

** RED HANDLE LOCK

4 PANEL 'G' SCHEDULE
NO SCALE

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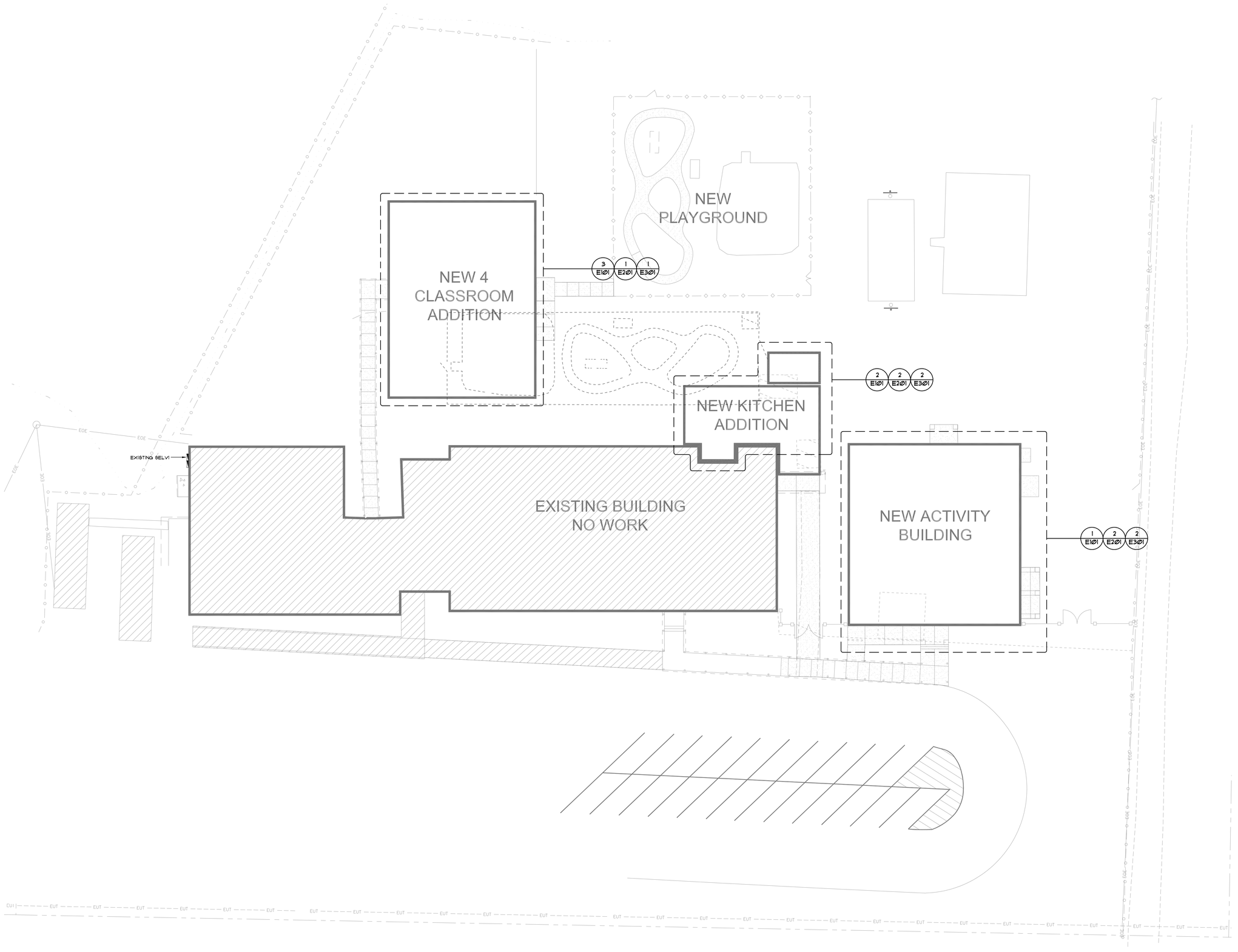
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ELECTRICAL SCHEDULES & KITCHEN DROP DETAIL

E002



1 ELECTRICAL SITE PLAN
1/16" = 1'-0"

ALABAMA LICENSED No. 18365 PROFESSIONAL ENGINEER RANDALL H. SMITH
01/14/26 *3540

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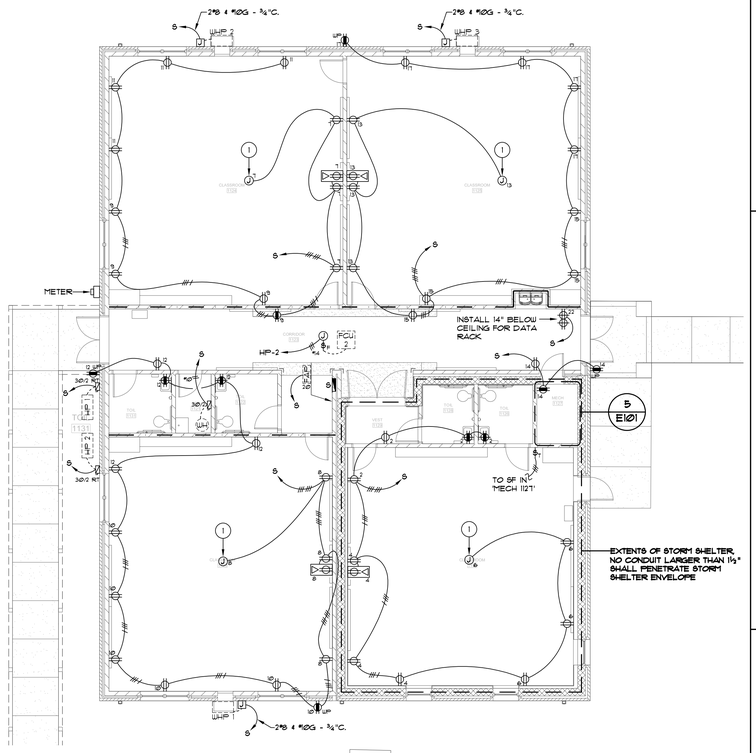
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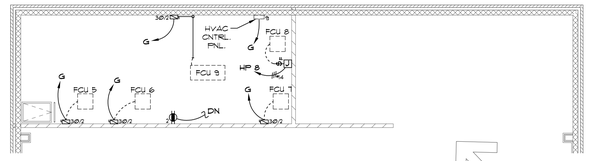
#	DESC	DATE

ELECTRICAL SITE PLAN

E100



3 CLASSROOM ADDITION POWER WIRING PLAN
1/8" = 1'-0"



6 ACTIVITY BUILDING MEZZANINE POWER WIRING PLAN
1/8" = 1'-0"

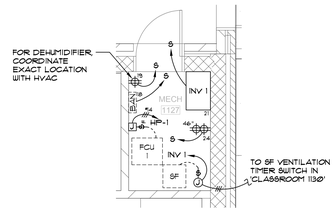
1. ABOVE CEILING FOR FUTURE AUDIO EQUIPMENT
2. NOT USED
3. NOT USED
4. CONNECT TO CIRCULATION PUMP VIA AQUASTAT

7 REFERENCE NOTES
NO SCALE

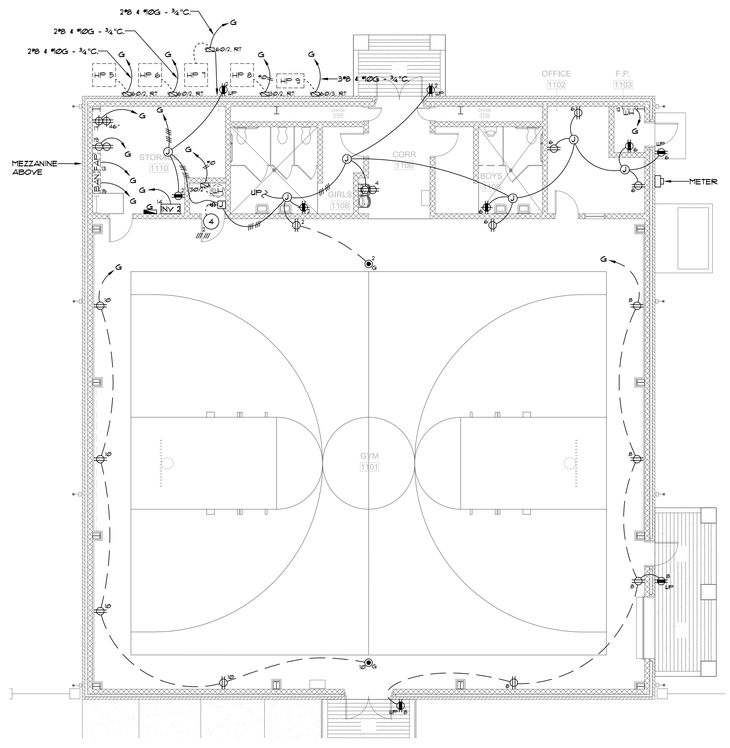
FOOD SERVICE EQUIPMENT ELECTRICAL SCHEDULE

ITEM #	QTY.	DESCRIPTION	VOLTS	Ø	AMPS	HP	PLUG TYPE	RI HEIGHT	ELECTRICAL REMARKS	ITEM #
1	1	FLY FAN	120 V	1	5.0 A	1	DIRECT	7'-10"	INSTALL CONTROL PANEL & DOOR SWITCH PROVIDED	1
2	1	WALK-IN FREEZER	120 V	1	15.0 A		DIRECT	8'-6"	SEE SHOP DRAWINGS	2
2.1	2	WALK-IN FREEZER COIL	208-230 V	1	10.0 A	Ø1	DIRECT		SEE SHOP DRAWINGS	2.1
2.2	2	FREEZER CONDENSER	208-230 V	3	10.1 A	2.5	DIRECT		SEE SHOP DRAWINGS	2.2
3	1	WALK-IN COOLER	120 V	1	15.0 A		DIRECT	8'-6"	SEE SHOP DRAWINGS	3
3.1	1	WALK-IN COOLER COIL	120 V	1	2.0 A	Ø1	DIRECT		SEE SHOP DRAWINGS	3.1
3.2	1	COOLER CONDENSER	208-230 V	3	6.3 A	Ø3	DIRECT		SEE SHOP DRAWINGS	3.2
9	1	3 COMP SINK	208-240 V	3	45.1 A	2	DIRECT	1'-6"		9
11	1	FOOD WASTE DISPOSER	208-240 V	3	10.0 A	3	DIRECT	1'-6"	SEE FSEC DETAIL	11
21	1	POT WASH	208-240 V	3	49.2 A		DIRECT	3'-10"		21
24	1	ELECTRIC SLICER	120 V	1	9.6 A		5-15P	3'-10"		24
27	1	FOOD WASTE DISPOSER	208 V	3	6.6 A	2	DIRECT	1'-6"	SEE FSEC DETAIL	27
28	1	REACH-IN REFRIGERATOR	120 V	1	9.0 A	1/2	5-15P	3'-10"	-	28
32	1	PLANETARY MIXER	120 V	1	9.5 A	3/4	5-15P	3'-10"		32
36	1	HOLDING AND PROOFING CABINET	120 V	1	16.1 A		5-20P	3'-10"		36
38	1	EXHAUST HOOD	120 V	1	20.0 A		DIRECT		SEE SHOP DRAWINGS	38
38.1	2	EXHAUST FAN	208 V	1	12.5 A	1	DIRECT		SEE SHOP DRAWINGS	38.1
38.2	1	SUPPLY FAN	208 V	1	12.5 A	2	DIRECT		SEE SHOP DRAWINGS	38.2
41	1	CONVECTION STEAMER, ELECTRIC	208 V	3	54.0 A		DIRECT	3'-10"		41
42	2	COMBI OVEN, ELECTRIC	208 V	3	53.0 A	1/2	DIRECT	3'-10"	(2) CONNECTIONS	42
43	1	CONVECTION OVEN, ELECTRIC	208 V	3	31.0 A	1/2	DIRECT	3'-10"	(2) CONNECTIONS	43
44	1	TILT SKILLET, ELECTRIC	208 V	1	15.0 A		DIRECT	3'-10"		44
46	1	RANGE, 24", ELECTRIC	208 V	3	38.0 A		DIRECT	3'-10"	-	46
48	1	ICE MAKER	120 V	1	8.2 A		DIRECT	5'-10"		48
52	1	PASS-THR HEATED CABINET	120/208 V	1	19.5 A		DIRECT	8'-6"		52
53	1	PASS-THRU REFRIGERATOR	120 V	1	7.6 A	1/3	5-15P	8'-6"		53
CO1	4	CONVIENCE OUTLET	120 V	1	15.0 A		5-15P	3'-10"	-	CO1
CO2	3	DROP CORD	120 V	1	15.0 A		5-15P	5'-2"	-	CO2

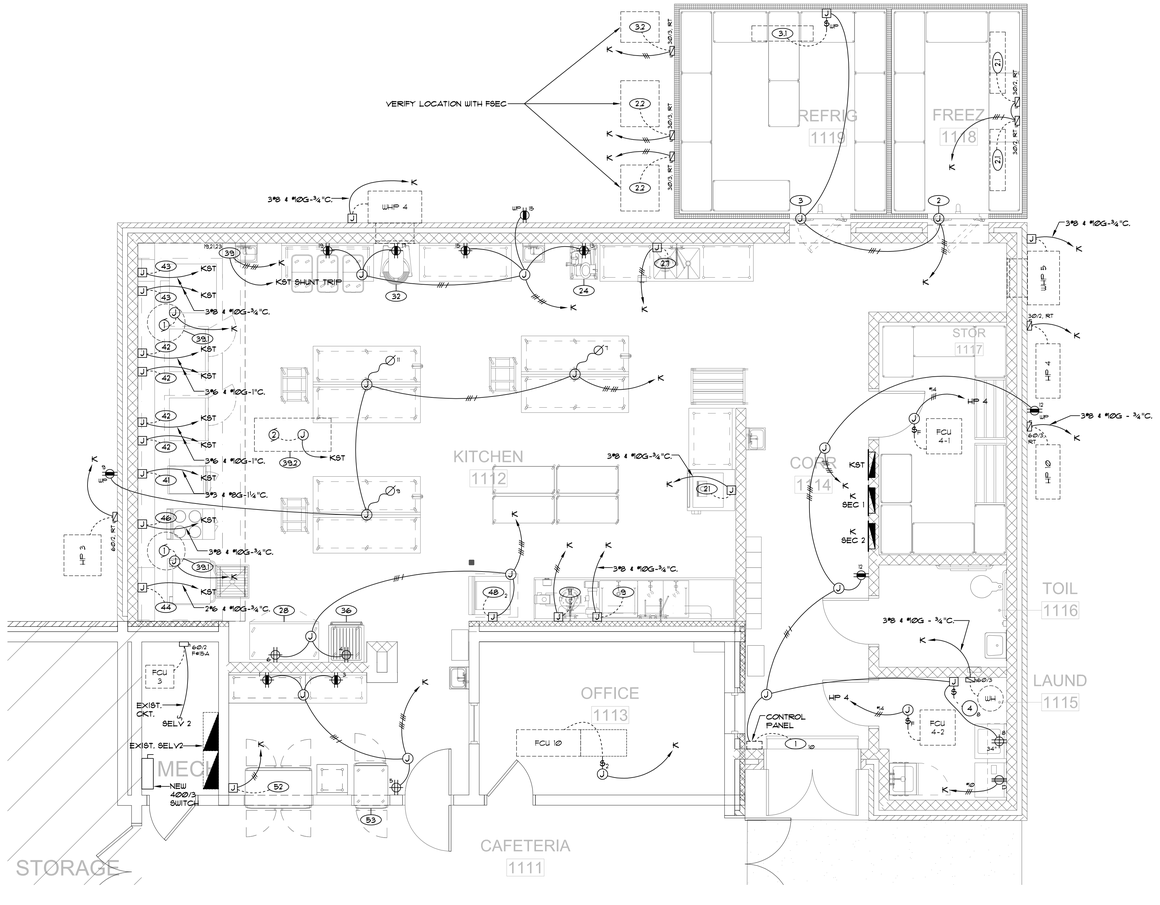
4 FOOD SERVICE EQUIPMENT ELECTRICAL SCHEDULE
NO SCALE



5 ENARGED MECHANICAL ROOM 1127 POWER WIRING PLAN
1/4" = 1'-0"



1 ACTIVITY BUILDING POWER WIRING PLAN
1/8" = 1'-0"



2 KITCHEN ADDITION POWER WIRING PLAN
1/4" = 1'-0"

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VERBENA ELEMENTARY ANNEX CLASSROOM, KITCHEN AND ACTIVITY BUILDING ADDITIONS
4690 HIGHWAY 31, VERBENEA, ALABAMA
CHILTON COUNTY BOARD OF EDUCATION

CONSTRUCTION DOCUMENTS

DATE: 01/14/26
PROJ NO: 25-060

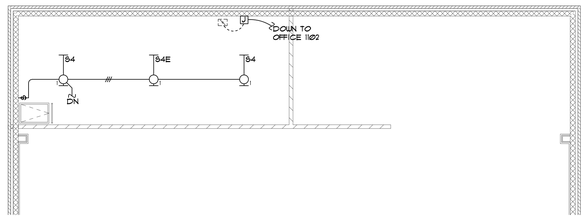
REVISIONS		
#	DESC	DATE

POWER WIRING PLANS

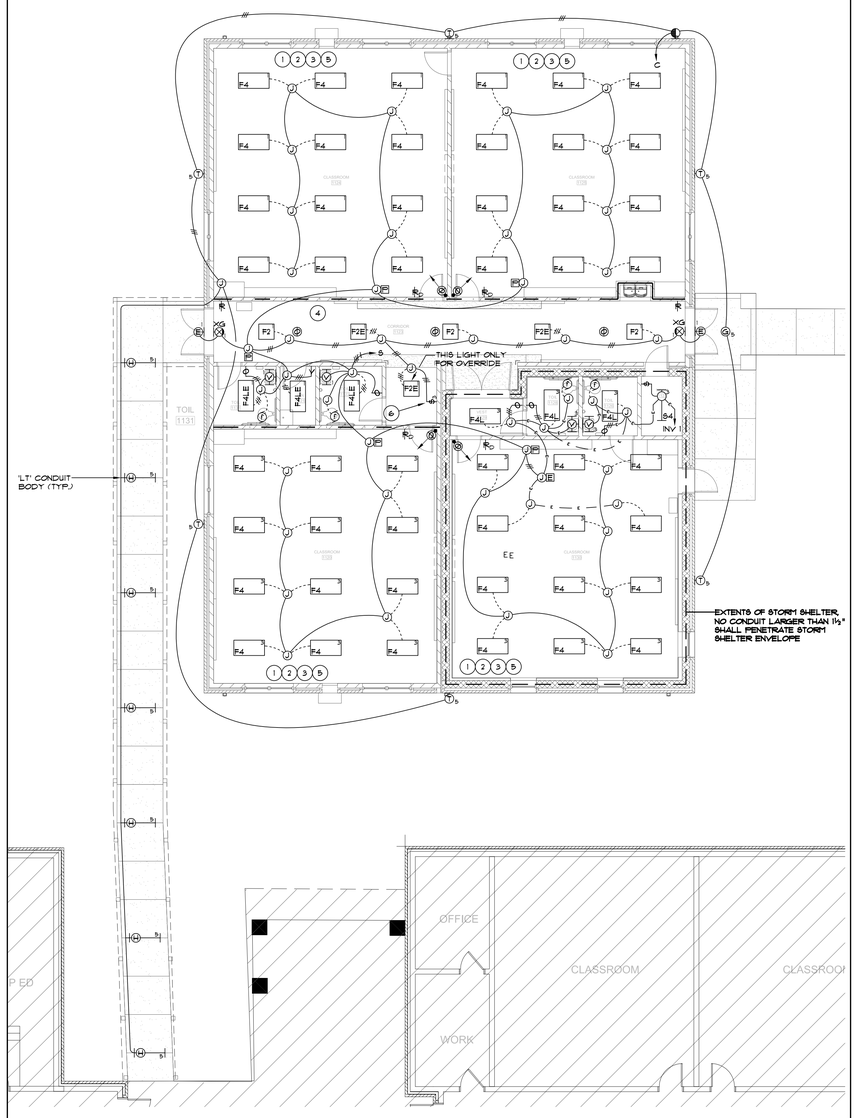
E101

1. LIGHTING COMPLETELY OR PARTIALLY WITHIN THE PRIMARY SIDE-LIGHTED AREA IS LESS THAN 150W
2. LIGHTING COMPLETELY OR PARTIALLY WITHIN THE PRIMARY AND SECONDARY SIDE-LIGHTED AREAS IS LESS THAN 300W
3. PROGRAM LIGHTING CONTROLS FOR MANUAL ON, AUTOMATIC OFF
4. PROGRAM LIGHTING CONTROLS FOR FULL AUTOMATIC ON, AUTOMATIC OFF
5. 18/2 DIMMING CABLE REQUIRED TO EACH DIMMED LUMINAIRE
6. LIGHTING CONTROLS OVERRIDE FOR COMPLIANCE WITH NEC (2020) 110.26(D). INSTALL P45 45116 OR EQUAL AND LABEL UP POSITION "ON" AND DOWN POSITION "AUTO"

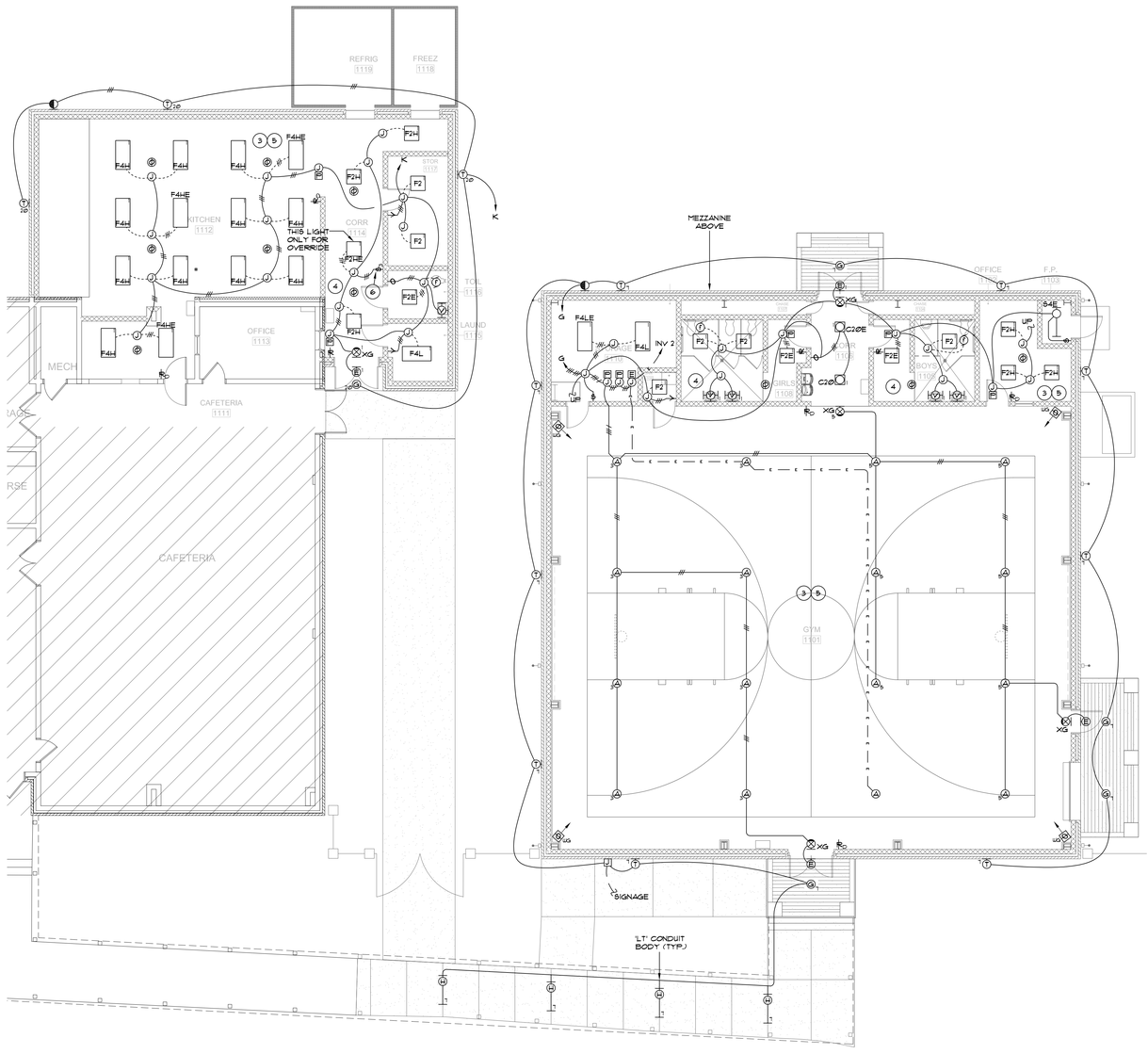
3 REFERENCE NOTES
NO SCALE



4 ACTIVITY BUILDING MEZZANINE LIGHTING PLAN
1/8" = 1'-0"



1 CLASSROOM ADDITION LIGHTING PLAN
1/8" = 1'-0"



2 KITCHEN ADDITION AND ACTIVITY BUILDING LIGHTING PLAN
1/8" = 1'-0"

01/14/26 *2560

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REVISIONS

#	DESC	DATE

LIGHTING PLANS

E201

ABBREVIATIONS: A/V - AUDIO / VISUAL, CBB - COMMUNICATIONS BACKBOARD, TER - TELECOM EQUIPMENT RACK, WAP - WIRELESS ACCESS POINT, WG - WIRE GUARD, WP - WEATHERPROOF

- EXISTING FIRE ALARM SMOKE DETECTOR
- EXISTING FIRE ALARM MANUAL PULL STATION
- EXISTING FIRE ALARM AUDIBLE VISUAL NOTIFICATION APPLIANCE, HORN
- WALL COMMUNICATION OUTLET, 18" AFF AND WITHIN 6" FROM POWER RECEPTACLE (IF ADJACENT): 4 11/16 X 4 11/16 X 2 1/8" J-BOX WITH SINGLE GANG DEVICE COVER, 1"C. TO WITHIN 6" OF NEAREST CABLE SUPPORT SYSTEM, BUSHING ON CONDUIT END, 'D' (DATA) SUBSCRIPT INDICATES DATA JACK, LEVITON #6WJK-RL6 (BLUE) QUANTITY AS INDICATED, CAT6 CABLE (BLUE JACKET) TO RESPECTIVE TELECOM RACK WITH TERMINATION ON PATCH PANEL, OUTLET FACEPLATE TO BE LEVITON #42080-1S4 (4-PORT, STAINLESS STEEL), INSTALL LEVITON #41084-0BG (GREY) BLANK KEYSTONES ON UNUSED PORTS, INSTALL BLANK FACEPLATES ON UNUSED COMMUNICATION OUTLETS
- WALL COMMUNICATION OUTLET, SPECIAL HEIGHT AS PER PLAN OR AS PER ADJACENT RECEPTACLE, CONDUIT, CABLING, AND JACKS SAME AS STANDARD WALL COMMUNICATION OUTLET
- CEILING COMMUNICATION OUTLET, 1"C. TO WITHIN 6" OF NEAREST CABLE SUPPORT SYSTEM, BUSHINGS ON CONDUIT END(S). 'D' SUBSCRIPT INDICATES 6' OF COILED CAT6 CABLE (GREEN JACKET) AT LOCATION WITH LEVITON #6WJK-RV6 (GREEN) CAT6 RJ45 NETWORK CONNECTOR ON CABLE END (UNLESS NOTED OTHERWISE), QUANTITY AS INDICATED, HOMERUN TO RESPECTIVE TELECOM RACK WITH TERMINATION ON PATCH PANEL
- FUTURE CAMERA LOCATION, MOUNTING AS FOLLOWS: NO SUFFIX - CEILING, 'W' - WALL
  - ACCESSIBLE CEILING LOCATIONS: 3/4"C. TO WITHIN 6" OF NEAREST CABLE SUPPORT SYSTEM, BUSHINGS ON CONDUIT ENDS, 'D' SUBSCRIPT INDICATES 6' OF COILED CAT6 CABLE (ORANGE JACKET) AT LOCATION WITH LEVITON #6WJK-RO6 (ORANGE) CAT6 RJ45 NETWORK CONNECTOR ON CABLE END, HOMERUN TO RESPECTIVE TELECOM RACK WITH TERMINATION ON DEDICATED CAMERA PATCH PANEL
  - WALL MOUNTED AND HARD CEILING LOCATIONS: 4 11/16 X 4 11/16 X 2 1/8" J-BOX WITH SINGLE GANG DEVICE COVER, 3/4"C. TO WITHIN 6" OF NEAREST CABLE SUPPORT SYSTEM, BUSHING ON CONDUIT END, 'D' SUFFIX INDICATES 12" OF CAT6 CABLE (ORANGE JACKET) AT LOCATION WITH LEVITON #6WJK-RO6 (ORANGE) CAT6 RJ45 NETWORK CONNECTOR ON CABLE END, HOMERUN TO RESPECTIVE TELECOM RACK WITH TERMINATION ON DEDICATED CAMERA PATCH PANEL
- WALL AUDIO / VISUAL (A/V) OUTLET, 18" AFF AND WITHIN 6" FROM POWER RECEPTACLE OR WALL COMMUNICATION OUTLET (IF ADJACENT), 4 11/16 X 4 11/16 X 3 1/2" J-BOX (RACO #760 OR EQUAL), SINGLE OR DOUBLE GANG DEVICE COVER AS REQUIRED, SUBSCRIPT INDICATES A/V OUTLET TYPE (NO SUBSCRIPT - INSTALL BLANK FACEPLATE), SEE 'AUDIO / VISUAL OUTLET DETAIL' FOR ADDITIONAL INFORMATION, 1 1/4"C. PER GANG STUBBED TO ABOVE ACCESSIBLE CEILING, BUSHING ON CONDUIT END(S), SEE RESPECTIVE A/V WIRING DIAGRAM FOR CABLING INFORMATION
- WALL AUDIO / VISUAL (A/V) OUTLET, SPECIAL HEIGHT AS PER PLAN OR AS PER ADJACENT RECEPTACLE, CONDUIT, DEVICE(S), AND CABLING SAME AS STANDARD WALL AUDIO / VISUAL OUTLET
- CR WALL OUTLET FOR ACCESS CONTROL SWITCHING DEVICE, SEE 'ACCESS CONTROL DETAIL' FOR ADDITIONAL INFORMATION
- (S) 2X2' LAY-IN CEILING SPEAKER, BOGEN #CSD2X2U-V3 (BRIGHT WHITE FINISH), SUPPORT SPEAKER AT ALL FOUR (4) CORNERS INDEPENDENT OF CEILING GRID, 18/2 SPEAKER AUDIO CABLE IN 3/4"C. DAISY CHAIN SPEAKERS WITHIN RESPECTIVE PAGING ZONE, HOME RUN 18/2 SPEAKER AUDIO CABLE FROM FIRST SPEAKER IN RUN TO 110 BLOCK MOUNTED TO RESPECTIVE CBB, ROUTE CONDUIT SUCH THAT CONDUIT/CABLE RUN IS MINIMIZED
- (S) WALL MOUNTED PAGING HORN, BOGEN #SPT8A, HEIGHT AS INDICATED ON PLAN, 18/2 SPEAKER AUDIO CABLE IN 3/4"C., DAISY CHAIN SPEAKERS WITHIN RESPECTIVE PAGING ZONE, HOME RUN 18/2 SPEAKER AUDIO CABLE FROM FIRST HORN IN RUN TO 110 BLOCK MOUNTED TO RESPECTIVE CBB, ROUTE CONDUIT SUCH THAT CONDUIT/CABLE RUN IS MINIMIZED, 'WG' SUBSCRIPT INDICATES WIRE GUARD, AMERICAN TIME #320714-WEB (OR APPROVED EQUAL), VERIFY PROPER DIMENSIONS
- WALL OUTLET, INTERCOM CALL-IN SWITCH, BOGEN #CA16A, 46" AFF, HOME RUN 18/2 SPEAKER AUDIO CABLE TO 110 BLOCK MOUNTED TO RESPECTIVE CBB
- CABLE SUPPORT SYSTEM ABOVE ACCESSIBLE CEILING, 12"WX2"D WIRE BASKET TRAY, COORDINATE WITH HVAC CONTRACTOR TO AVOID CONFLICTS

FIRE ALARM SYMBOLS

- FAP FIRE ALARM PANEL, SIMPLEX #4010ES, PLATINUM, CLASSROOM BUILDING - SEMI-FLUSH MOUNT, ACTIVITY BUILDING - SURFACE MOUNT
- LOC LOCAL OPERATING CONSOLE, SIMPLEX #4003-9831, FLUSH MOUNT, 54" AFF
- ST SMART TROUBLE POWER MONITOR, SIMPLEX #TPR-12VC RELAY W/ #4090-9001 SUPERVISED 1AM (INCLUDE #4090-9806 TRIM PLATE W/ VIEWING WINDOW & #4090-9810 MOUNTING BRACKET)
- FS CONNECTION TO FLOW SWITCH
- TS CONNECTION TO TAMPER SWITCH
- FSS CONNECTION TO HOOD FIRE SUPPRESSION SYSTEM, FIRE ALARM SYSTEM TO INITIATE ALARM CONDITION UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM
- DB FIRE ALARM DOCUMENT BOX, SPACE AGE ELECTRONICS #SB1006BB, SURFACE MOUNT, STORE PROJECT DOCUMENTS AS REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ)
- CEILING OUTLET, SMOKE DETECTOR, SIMPLEX #4098-9714 W/ #4098-9792 BASE
- CEILING OUTLET, HEAT DETECTOR, SIMPLEX #4098-9733 W/ #4098-9792 BASE
- PULL STATION, SEMI-FLUSH, DOUBLE ACTION, ADDRESSABLE, SIMPLEX #4099-9806, WALL MOUNT AT 46" AFF, 'PC' SUBSCRIPT INDICATES PROTECTIVE COVER WITH ALARM, STI STOPPER II OR EQUAL
- WALL OUTLET, AUDIBLE VISUAL NOTIFICATION APPLIANCE, SIMPLEX #4906-9171, HORN, RED W/ CLEAR LENS AND WHITE 'FIRE' MARKING, SYNCHRONIZED FLASH, 1'-4" AFF, 15 CANDELA OR AS INDICATED BY SUBSCRIPT
- WALL OUTLET, VISUAL NOTIFICATION APPLIANCE, SIMPLEX #4906-9101, RED W/ CLEAR LENS AND WHITE 'FIRE' MARKING, SYNCHRONIZED FLASH, 1'-4" AFF, 15 CANDELA OR AS INDICATED BY SUBSCRIPT
- CEILING OUTLET, AUDIBLE VISUAL NOTIFICATION APPLIANCE, SIMPLEX #4906-9178, HORN, RED W/ CLEAR LENS AND WHITE 'FIRE' MARKING, SYNCHRONIZED FLASH, 15 CANDELA OR AS INDICATED BY SUBSCRIPT
- CEILING OUTLET, VISUAL NOTIFICATION APPLIANCE, SIMPLEX #4906-9102, RED W/ CLEAR LENS AND WHITE 'FIRE' MARKING, SYNCHRONIZED FLASH, 15 CANDELA OR AS INDICATED BY SUBSCRIPT
- WALL OUTLET, AUDIBLE VISUAL NOTIFICATION APPLIANCE, SIMPLEX #45V-APPLW W/ #45VC-WALT COVER, SPEAKER, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 1'-4" AFF, 15 CANDELA OR AS INDICATED BY SUBSCRIPT, 1/4W OR AS INDICATED BY SUBSCRIPT
- WALL OUTLET, VISUAL NOTIFICATION APPLIANCE, SIMPLEX #45VO-WHA, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 1'-4" AFF, 15 CANDELA OR AS INDICATED BY SUBSCRIPT
- CEILING OUTLET, AUDIBLE VISUAL NOTIFICATION APPLIANCE, SIMPLEX #45V-APPLC W/ #45VC-CWALT COVER, SPEAKER, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 15 CANDELA OR AS INDICATED BY SUBSCRIPT, 1/4W OR AS INDICATED BY SUBSCRIPT
- CEILING OUTLET, VISUAL NOTIFICATION APPLIANCE, SIMPLEX #45VO-APPLC W/ #45VCC-CWALT COVER, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 15 CANDELA OR AS INDICATED BY SUBSCRIPT
- B FIRE ALARM BELL, 24VDC, SIMPLEX #2901-9723 W/ #BBX-4 WEATHERPROOF BACKBOX, 6" DIAMETER, SURFACE MOUNT, 84" AFF, BELL SHALL SOUND ON SPRINKLER WATER FLOW ONLY, NOT GENERAL ALARM
- BDA IN-BUILDING 2-WAY EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM, BI-DIRECTIONAL AMPLIFIER (BDA) SYSTEM TO BE MANUFACTURED BY HONEYWELL OR APPROVED EQUAL, COORDINATE FREQUENCY REQUIREMENTS WITH THE AHJ, SYSTEM TO BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- BAT BI-DIRECTIONAL AMPLIFIER (BDA) BATTERY BACKUP UNIT W/ BUILT-IN ANNUNCIATOR, UNIT TO BE MANUFACTURED BY HONEYWELL OR APPROVED EQUAL, UNIT TO BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- BI-DIRECTIONAL AMPLIFIER INDOOR DAS ANTENNA, ANTENNA TO BE MANUFACTURED BY HONEYWELL OR APPROVED EQUAL, COORDINATE FREQUENCY REQUIREMENTS WITH THE AHJ, INSTALL ABOVE ACCESSIBLE CEILING
- BI-DIRECTIONAL AMPLIFIER DONOR ANTENNA, ANTENNA TO BE MANUFACTURED BY HONEYWELL OR APPROVED EQUAL, COORDINATE FREQUENCY REQUIREMENTS WITH THE AHJ

1 AUXILIARY SYMBOLS LIST
NO SCALE

GENERAL:

- ALL HEIGHTS ARE CENTERLINE UNLESS NOTED OTHERWISE
- INSTALL FIRESTOPPING IN ALL PENETRATIONS OF FIRE-RATED WALLS OR CEILINGS USING APPROVED FIRESTOPPING MATERIALS AND METHODS IN ORDER TO MAINTAIN FIRE-RATING INTEGRITY.
- ALL CONDUIT INDICATED TO STUB TO ABOVE ACCESSIBLE CEILING SHALL EXTEND A MINIMUM OF 6" ABOVE THE ACCESSIBLE CEILING.

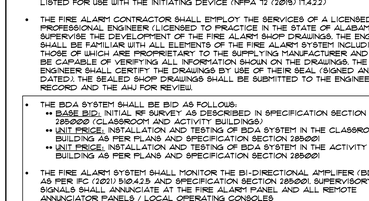
COMMUNICATIONS:

- CABLE COLORS SHALL BE AS FOLLOWS:
  - STANDARD DATA: BLUE
  - CAMERAS: ORANGE
  - WIRELESS ACCESS POINTS: GREEN
- LABEL ENDS OF CABLES, FACEPLATES, & PATCH PANELS W/ CABLE IDENTIFICATION, COORDINATE WITH OWNER FOR LABELING FORMAT, ELECTRONICALLY PRINTED LABELS TO BE INSTALLED ON FACEPLATES & PATCH PANELS IN NEAT AND PROFESSIONAL MANNER
- TELECOM RACK ELEVATIONS ARE FOR ILLUSTRATION PURPOSES ONLY, COMMUNICATIONS CONTRACTOR TO PROVIDE ACTUAL QUANTITIES OF RACK EQUIPMENT AS REQUIRED
- COORDINATE WITH OWNER PRIOR TO INSTALLATION:
  - PATCH PANEL PUNCH DOWN LOCATIONS FOR CAMERAS, WAPs, AND STANDARD DATA OUTLETS
  - RACK EQUIPMENT AND BACKBOARD-MOUNTED EQUIPMENT LOCATIONS

FIRE ALARM:

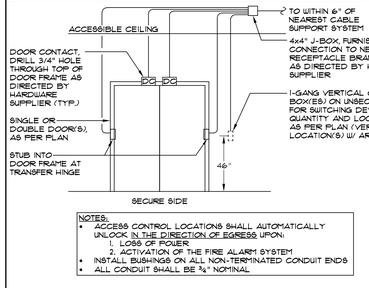
- THE CERTIFIED FIRE ALARM ACT REQUIRES:
  1. EVERY BUSINESS WHO INSTALLS FIRE ALARM SYSTEMS IN COMMERCIAL OCCUPANCIES MUST BE LICENSED THROUGH THE STATE OF ALABAMA FIRE MARSHAL'S OFFICE AS A CERTIFIED FIRE ALARM CONTRACTOR. THE CONTRACTOR MUST HAVE A NICET LEVEL III TECHNICIAN IN A POSITION OF RESPONSIBILITY. THE LICENSE WILL BE ISSUED IN THE NAME OF THE CERTIFICATE HOLDER AND THE CONTRACTOR.
  2. TECHNICIANS WORKING FOR THE CERTIFIED CONTRACTOR MUST HOLD A CURRENT NICET LEVEL II, OR EQUIVALENT, CERTIFICATION. THE FIRE ALARM SPECIFICATIONS SHALL REQUIRE CONTRACTORS WISHING TO BID ON FIRE ALARM WORK TO SHOW EVIDENCE AT THE PRE-BID CONFERENCE THAT HE/SHE MEETS THE CERTIFICATION REQUIREMENTS OF THE ACT AND HOLDS A PERMIT ISSUED BY THE STATE FIRE MARSHALL.
- ANY FIRE ALARM WORK INDICATED ON THE DRAWINGS THAT WILL CAUSE IMPAIRMENT TO THE SYSTEM SHALL BE COORDINATED WITH THE OWNER AND THE AHJ PRIOR TO THE WORK BEING PERFORMED. SYSTEM IMPAIRMENT PROCEDURES SHALL COMPLY WITH NFPA 72 (2019) SECTION 10.21
- THE FIRE ALARM SYSTEM WORK SHALL BE PERFORMED AS PER NFPA 72 (2019) 10.4 AND 10.5.2. THE SYSTEM IS TO BE CERTIFIED UPON COMPLETION OF WORK AND A 'RECORD OF COMPLETION' SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72 (2019) PER IBC (2021) 907.1.2
- SMOKE AND HEAT DETECTORS SHALL NOT BE INSTALLED IN A DIRECT AIRFLOW OR CLOSER THAN 36" FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING (NFPA 72 2019 17.7.4.1), COORDINATE WITH HVAC.
- PROVIDE BACKBOX SKIRT FOR SURFACE MOUNTED FIRE ALARM NOTIFICATION APPLIANCES.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72 (2019) (IFC 2021 907.6.6)
- THE FIRE ALARM SYSTEM SHALL BE CLEAR OF ALL 'TROUBLE' SIGNALS UPON PROJECT COMPLETION
- ALL NOTIFICATION APPLIANCES SHALL BE LOCATED AS INDICATED ON THE PLANS, THE FIRE ALARM CONTRACTOR SHALL NOT RELOCATE ANY DEVICES (INCLUDING RELOCATING A WALL MOUNTED DEVICE TO THE CEILING OR VICE VERSA) WITHOUT CONSULTING THE ENGINEER
- ALL INITIATING DEVICES SHALL BE PHYSICALLY LABELED USING MACHINE-PRINTED, ADHESIVE LABELS (WHITE BACKGROUND W/ BLACK TEXT). LABELS SHALL INDICATE DEVICE ADDRESS AS PROGRAMMED IN THE FIRE ALARM PANEL
- EACH INTERBUILDING CIRCUIT SHALL BE PROTECTED BY A LISTED PRIMARY PROTECTOR AT EACH END OF THE INTERBUILDING CIRCUIT
- INSTALL RED CIRCUIT BREAKER LOCKS ON ALL CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT. SPACE AGE ELECTRONICS #LOCK-FA OR EQUAL, IDENTIFY BREAKERS AS 'FIRE ALARM CIRCUIT'
- THE LOCATION OF THE BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE (PANEL ID AND CIRCUIT NUMBER) SHALL BE PERMANENTLY IDENTIFIED ON THE FRONT OF ALL FIRE ALARM EQUIPMENT
- BRANCH CIRCUITS SUPPLYING FIRE ALARM EQUIPMENT SHALL SUPPLY NO OTHER LOADS AND SHALL NOT BE SUPPLIED THROUGH GROUND-FAULT CIRCUIT INTERRUPTERS OR ARC-FAULT CIRCUIT INTERRUPTERS.
- ALL FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT, J-BOXES TO HAVE RED COVERS WITH WHITE 'FA' LETTERS, IDENTIFY CONDUIT AS PER SPECIFICATION SECTION 260553.
- THE OPERABLE PART OF ALL MANUAL PULL STATIONS SHALL BE NO LESS THAN 42" AFF AND NO MORE THAN 48" AFF. LOCATIONS WHERE EXISTING OUTLETS MAY BE REUSED SHOULD CONFORM TO THESE REQUIREMENTS AND SHALL BE ADJUSTED ACCORDINGLY
- GUARDS AND COVERS EMPLOYED OVER FIRE ALARM INITIATING DEVICES SHALL BE LISTED FOR USE WITH THE INITIATING DEVICE (NFPA 72 (2019) 17.4.2.2)
- THE FIRE ALARM CONTRACTOR SHALL EMPLOY THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER (LICENSED TO PRACTICE IN THE STATE OF ALABAMA) TO SUPERVISE THE DEVELOPMENT OF THE FIRE ALARM SHOP DRAWINGS. THE ENGINEER SHALL BE FAMILIAR WITH ALL ELEMENTS OF THE FIRE ALARM SYSTEM INCLUDING THOSE OF WHICH ARE PROPRIETARY TO THE SUPPLYING MANUFACTURER AND SHALL BE CAPABLE OF VERIFYING ALL INFORMATION SHOWN ON THE DRAWINGS. THE ENGINEER SHALL CERTIFY THE DRAWINGS BY USE OF THEIR SEAL (SIGNED AND DATED). THE SEALED SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND THE AHJ FOR REVIEW.
- THE BDA SYSTEM SHALL BE BID AS FOLLOWS:
  - ** BASE BID: INITIAL SURVEY AS DESCRIBED IN SPECIFICATION SECTION 285000 (CLASSROOM AND ACTIVITY BUILDINGS)
  - ** UNIT PRICE: INSTALLATION AND TESTING OF BDA SYSTEM IN THE CLASSROOM BUILDING AS PER PLANS AND SPECIFICATION SECTION 285000
  - ** UNIT PRICE: INSTALLATION AND TESTING OF BDA SYSTEM IN THE ACTIVITY BUILDING AS PER PLANS AND SPECIFICATION SECTION 285000
- THE FIRE ALARM SYSTEM SHALL MONITOR THE BI-DIRECTIONAL AMPLIFIER (BDA) AS PER IFC (2021) 510.4.2.5 AND SPECIFICATION SECTION 285000. SUPERVISORY SIGNALS SHALL ANNUNCIATE AT THE FIRE ALARM PANEL AND ALL REMOTE ANNUNCIATOR PANELS / LOCAL OPERATING CONSOLES

7 GENERAL AUXILIARY NOTES
NO SCALE



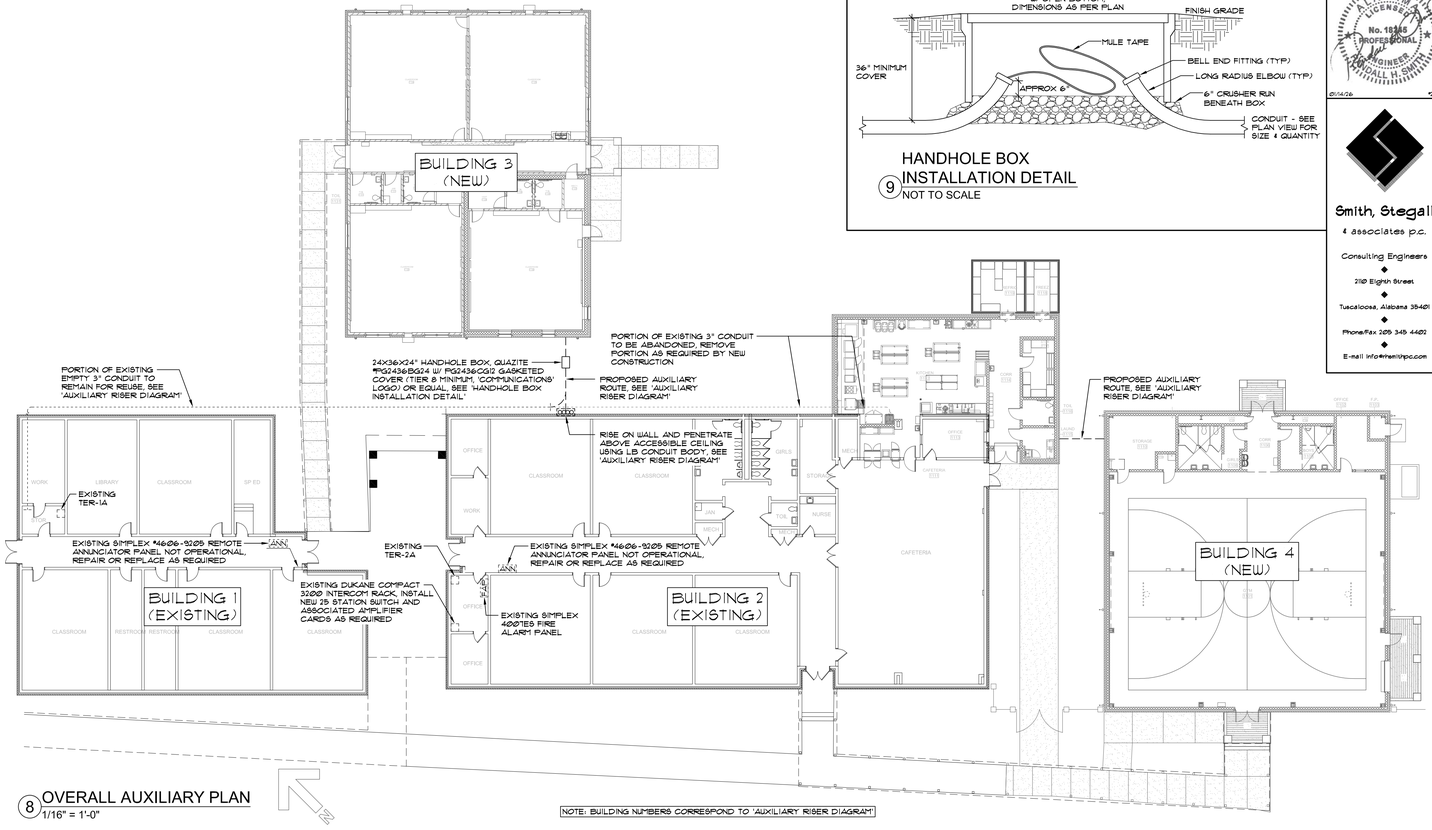
NOTE: THE LABELING FORMAT OUTLINED ABOVE SHALL BE USED UNLESS DIRECTED OTHERWISE BY THE OWNER

6 COMMUNICATION OUTLET LABELING FORMAT DETAIL
NO SCALE



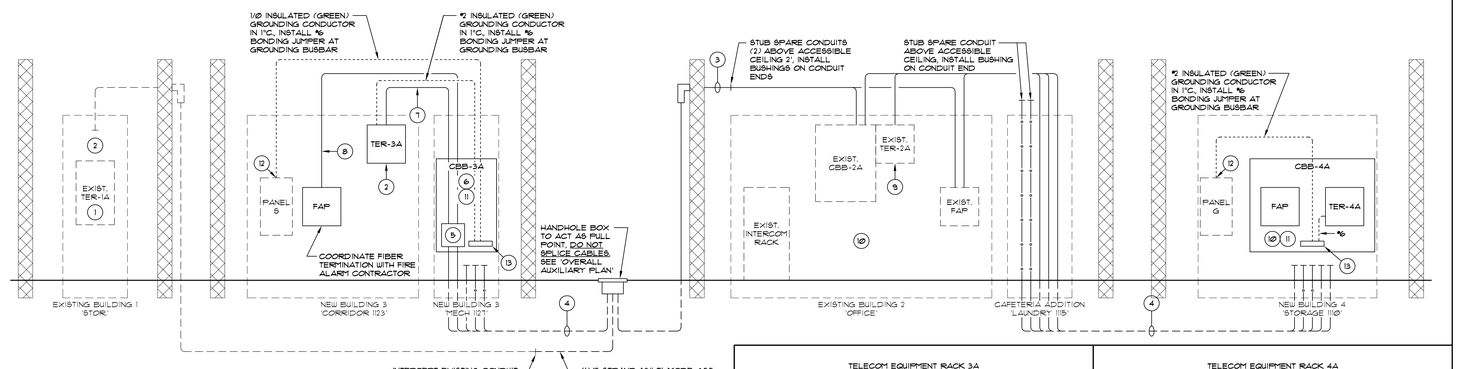
NOTES:
- ACCESS CONTROL LOCATIONS SHALL AUTOMATICALLY UNLOCK IN THE DIRECTION OF EGRESS UPON:
  1. LOSS OF POWER
  2. ACTIVATION OF THE FIRE ALARM SYSTEM
- INSTALL BUSHINGS ON ALL NON-TERMINATED CONDUIT ENDS
- ALL CONDUIT SHALL BE 3/4" NOMINAL

2 ACCESS CONTROL DETAIL
NO SCALE



8 OVERALL AUXILIARY PLAN
1/16" = 1'-0"

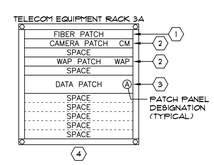
9 HANDHOLE BOX INSTALLATION DETAIL
NOT TO SCALE



1. INSTALL ONE (1) LEVITON #5R12M-S03 RACK MOUNT FIBER ENCLOSURE W/ TWO (1) LEVITON #5F100-6MT ADAPTER PLATES (ST MM/SM, 6-FIBER), INSTALL LEVITON #5F100-PLT BLANK ADAPTER PLATE(S) ON UNUSED PORT(S)
2. TERMINATE FIBER CABLE WITH 'ST' CONNECTORS ON RACK MOUNTED FIBER PATCH PANEL
3. (1) 6 STRAND, INDOOR / OUTDOOR TIGHT BUFFER FIBER IN 2"C. FOR FIRE ALARM NETWORKING, COORDINATE REQUIRED GLASS TYPE WITH FIRE ALARM CONTRACTOR
   (1) 25 PAIR (19 PAIR AWG), FILLED FOAM SKIN COPPER CABLE IN 2"C. FOR INTERCOM SYSTEM, GENERAL CABLE #1525538 OR EQUAL
   (2) 2" SPARE CONDUITS
   INSTALL BUSHINGS ON ALL CONDUIT ENDS
4. (1) 12 STRAND, MULTI-MODE, 62.5 MICRON, OM1, INDOOR / OUTDOOR TIGHT BUFFER FIBER IN 2"C. FOR DATA, GENERAL CABLE #CLD121ANRBK OR EQUAL
   (1) 6 STRAND, INDOOR / OUTDOOR TIGHT BUFFER FIBER IN 2"C. FOR FIRE ALARM NETWORKING, COORDINATE REQUIRED GLASS TYPE WITH FIRE ALARM CONTRACTOR
   (1) 25 PAIR (19 PAIR AWG), FILLED FOAM SKIN COPPER CABLE IN 2"C. FOR INTERCOM SYSTEM, GENERAL CABLE #1525538 OR EQUAL
   (2) 2" SPARE CONDUITS
   INSTALL BUSHINGS ON ALL CONDUIT ENDS
5. 12"X12"X6" NEMA 1 SCREW COVER PULL BOX
6. TERMINATE COPPER CABLE(S) ON DEDICATED CARBON PROTECTED TERMINAL BLOCK(S) ON COMMUNICATION BACKBOARD FOR INTERCOM SYSTEM EQUIPMENT
7. (1) 12 STRAND, MULTI-MODE, 62.5 MICRON, OM1, INDOOR / OUTDOOR TIGHT BUFFER FIBER IN 1"C. FOR DATA, GENERAL CABLE #CLD121ANRBK OR EQUAL
8. (1) 6 STRAND, INDOOR / OUTDOOR TIGHT BUFFER FIBER IN 1"C. FOR FIRE ALARM NETWORKING, COORDINATE REQUIRED GLASS TYPE WITH FIRE ALARM CONTRACTOR
9. INSTALL TWO (2) NEW FIBER ADAPTER PLATES (ST MM/SM, 6-FIBER) IN EXISTING FIBER ENCLOSURE, MATCH EXISTING
10. COORDINATE FIRE ALARM FIBER TERMINATION WITH FIRE ALARM CONTRACTOR, TERMINATE FIBER CABLE FOR DATA WITH 'ST' CONNECTORS ON RACK MOUNTED FIBER PATCH PANELS, AND TERMINATE COPPER CABLES ON DEDICATED CARBON PROTECTED TERMINAL BLOCKS ON COMMUNICATION BACKBOARD FOR INTERCOM SYSTEM EQUIPMENT
11. INSTALL A DEDICATED #6 EQUIPMENT BONDING CONDUCTOR FROM ALL RACKS, ENCLOSURES, CABLE TRAYS, AND STRUCTURAL STEEL (CONNECT TO VERTICAL COLUMNS IF WITHIN SAME SPACE) TO THEIR RESPECTIVE GROUNDING BUSBAR
12. CONNECT TO GROUNDING ELECTRODE
13. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB), COPPER, 12"LX2"HX1/4"W WITH PRE-DRILLED HOLES FOR USE WITH STANDARD 2-HOLE LUGS AND INSULATING STAND-OFF MOUNT PROVIDING A MINIMUM OF 2" SEPARATION FROM WALL, MOUNT 18" AFF NEAR RESPECTIVE DATA RACK

3 AUXILIARY RISER DIAGRAM
NO SCALE

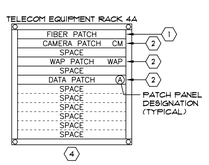
NOTE: EACH TELECOMMUNICATIONS BONDING CONDUCTOR SHALL BE LABELED, LABELS SHALL BE LOCATED ON CONDUCTORS AS CLOSE AS PRACTICAL TO THEIR POINT OF TERMINATION IN A READABLE POSITION. SHALL BE NONMETALLIC, AND SHALL INCLUDE THE FOLLOWING INFORMATION: "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER."



1. LEVITON #5R12M-S03 RACK MOUNT FIBER ENCLOSURE, LEVITON #5F100-6MT ADAPTER PLATES (ST MM/SM, 6-FIBER) AS REQUIRED, INSTALL LEVITON #5F100-PLT BLANK ADAPTER PLATES ON UNUSED PORTS
2. LEVITON #49255-H24 24 PORT PATCH PANEL W/ LEVITON ATLAS X1 JACKS AS REQUIRED (JACK TYPE AND COLOR TO MATCH OUTLET SERVED)
3. LEVITON #49255-H48 48 PORT PATCH PANEL W/ LEVITON ATLAS X1 JACKS AS REQUIRED (JACK TYPE AND COLOR TO MATCH OUTLET SERVED)
4. WALL MOUNT ENCLOSURE W/ WINDOW, HOFFMAN #ELH12424SS (12RU) OR EQUAL, FURNISH AND INSTALL COPPER GROUND BAR KIT

NOTES:
- VERIFY RACK EQUIPMENT LOCATIONS WITH OWNER PRIOR TO INSTALLATION
- TELECOM RACK ELEVATION IS FOR ILLUSTRATION PURPOSES ONLY, COMMUNICATIONS CONTRACTOR TO PROVIDE ACTUAL QUANTITIES OF RACK EQUIPMENT AS REQUIRED
- NO MORE THAN THREE (3) 48 PORT PATCH PANELS
- CONTRACTOR SHALL PROVIDE A 12" PATCH CORD FOR EACH PATCH PANEL TERMINATION, COLOR TO MATCH JACK COLOR
- ALL CABLING SHALL BE INSTALLED IN A NEAT AN PROFESSIONAL MANNER

4 TELECOM EQUIPMENT RACK 3A ELEVATION
NO SCALE



1. LEVITON #5R12M-S03 RACK MOUNT FIBER ENCLOSURE, LEVITON #5F100-6MT ADAPTER PLATES (ST MM/SM, 6-FIBER) AS REQUIRED, INSTALL LEVITON #5F100-PLT BLANK ADAPTER PLATES ON UNUSED PORTS
2. LEVITON #49255-H24 24 PORT PATCH PANEL W/ LEVITON ATLAS X1 JACKS AS REQUIRED (JACK TYPE AND COLOR TO MATCH OUTLET SERVED)
3. NOT USED
4. WALL MOUNT ENCLOSURE W/ WINDOW, HOFFMAN #ELH12424SS (12RU) OR EQUAL, FURNISH AND INSTALL COPPER GROUND BAR KIT

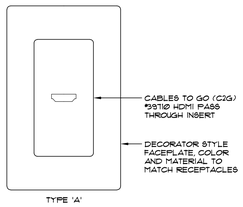
NOTES:
- VERIFY RACK EQUIPMENT LOCATIONS WITH OWNER PRIOR TO INSTALLATION
- TELECOM RACK ELEVATION IS FOR ILLUSTRATION PURPOSES ONLY, COMMUNICATIONS CONTRACTOR TO PROVIDE ACTUAL QUANTITIES OF RACK EQUIPMENT AS REQUIRED
- NO MORE THAN THREE (3) 48 PORT PATCH PANELS
- CONTRACTOR SHALL PROVIDE A 12" PATCH CORD FOR EACH PATCH PANEL TERMINATION, COLOR TO MATCH JACK COLOR
- ALL CABLING SHALL BE INSTALLED IN A NEAT AN PROFESSIONAL MANNER

5 TELECOM EQUIPMENT RACK 4A ELEVATION
NO SCALE

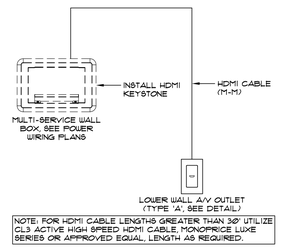
ALABAMA LICENSED PROFESSIONAL ENGINEER No. 18385 DANIEL H. SMITH
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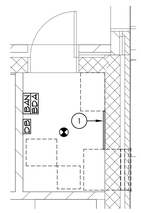
7 A/V OUTLET DETAIL (TYPE 'A')
NOT TO SCALE



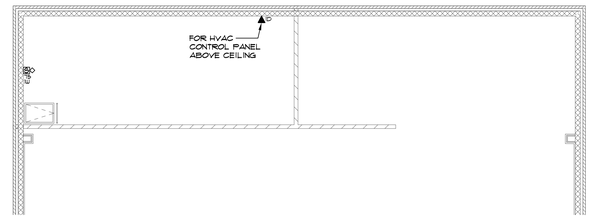
6 CLASSROOM A/V WIRING DETAIL
NO SCALE

1. COMMUNICATION BACKBOARD 'CBB': INSTALL ¾" VOID FREE PLYWOOD UP TO 8'-0" ALONG THIS WALL. PLYWOOD SHEETS TO BE AC-GRADE MOUNTED VERTICALLY WITH THE 'A' SIDE FACING OUTWARD AND THE 'C' SIDE SECURELY FASTENED TO THE WALL. PLYWOOD SHEETS TO BE PAINTED WITH TWO (2) COATS OF LIGHT FRAY ENAMEL FIRE-RETARDANT PAINT ON BOTH SIDES AND EDGES.
2. ACCESS CONTROL LOCATION, SEE 'ACCESS CONTROL DETAIL'
3. INDICATE LOCATION OF FIRE ALARM DOCUMENT BOX ON COVER

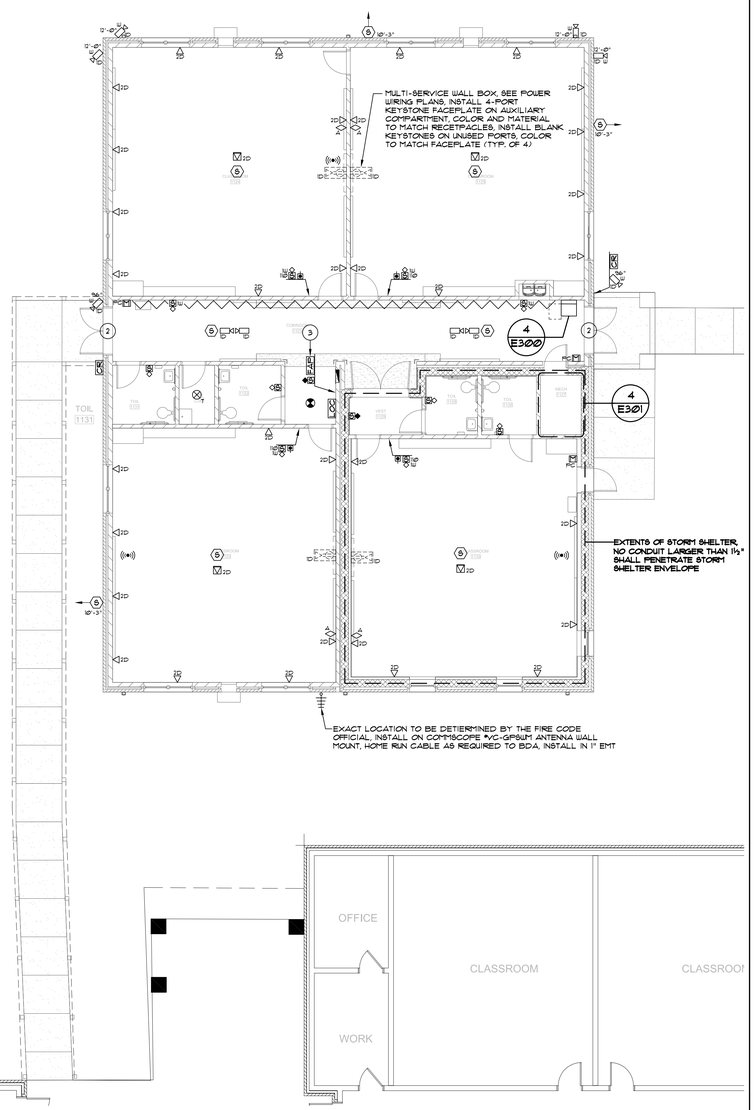
5 REFERENCED NOTES
NO SCALE



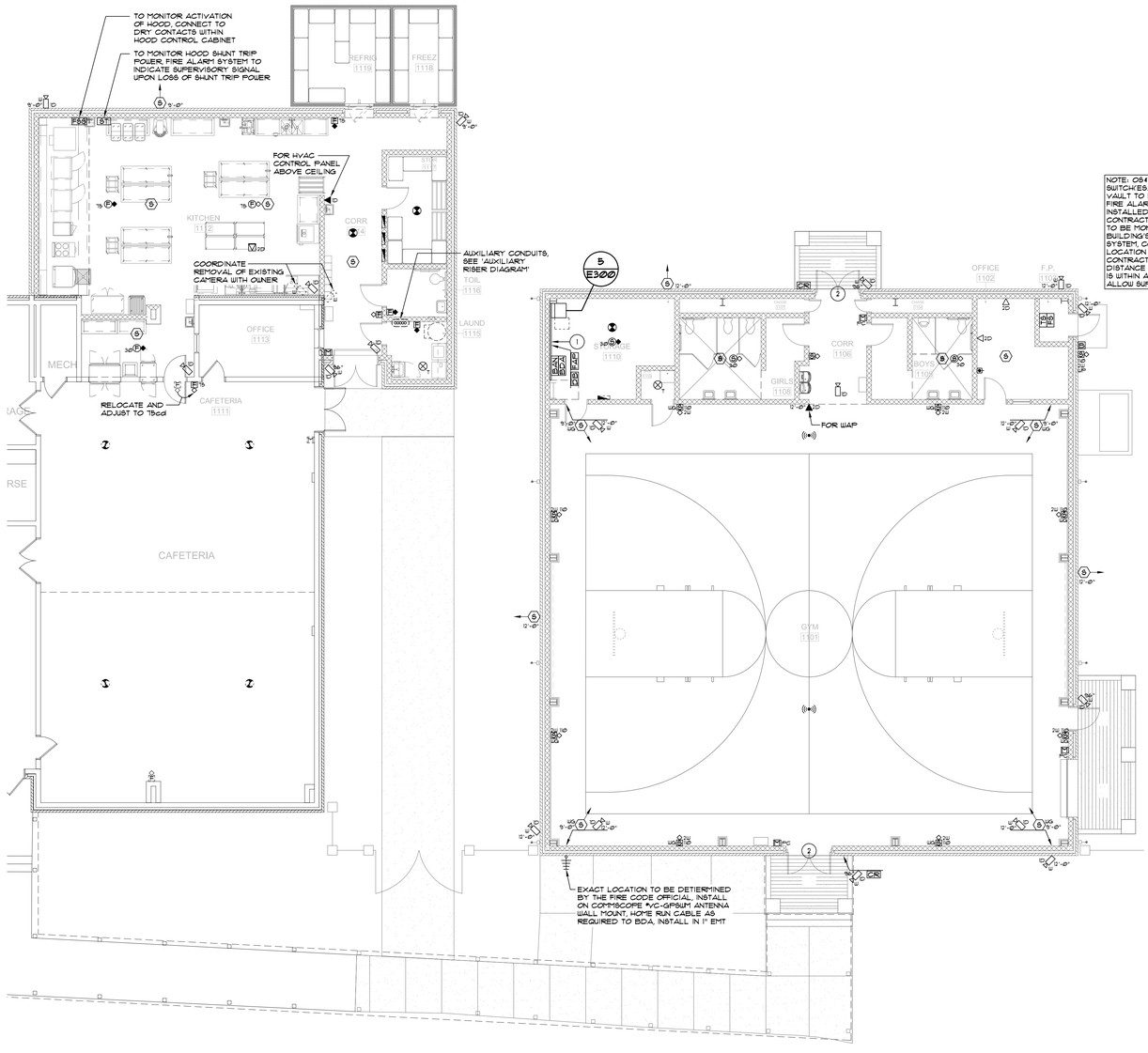
4 ENLARGED 'MECH 1127' AUXILIARY PLAN
1/4" = 1'-0"



3 ACTIVITY BUILDING MEZZANINE AUXILIARY PLAN
1/8" = 1'-0"



1 CLASSROOM ADDITION AUXILIARY PLAN
1/8" = 1'-0"



2 KITCHEN ADDITION AND ACTIVITY BUILDING AUXILIARY PLAN
1/8" = 1'-0"

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4690 HIGHWAY 31, VERBENEA, ALABAMA
CHILTON COUNTY BOARD OF EDUCATION

CONSTRUCTION DOCUMENTS

DATE: 01/14/26
PROJ NO: 25-060

REVISIONS

#	DESC	DATE

AUXILIARY PLAN

E301

FOOD SERVICE EQUIPMENT AND UTILITY SCHEDULE

ITEM #	QTY.	DESCRIPTION	FURNISHED BY	C.W. SIZE	C.W. HEIGHT	H.W. SIZE	H.W. HEIGHT	WASTE SIZE	WASTE HEIGHT	WASTE TYPE	VOLTS	Ø	AMPS	HP	PLUG TYPE	ELEC. HEIGHT	ITEM #
1	1	FLY FAN	FSEC								120 V	1	5 A	1	DIRECT	8'-0"	1
2	1	WALK-IN FREEZER	FSEC								120 V	1	15 A		DIRECT	8'-6"	2
2.1	2	WALK-IN FREEZER COIL	FSEC					2"	0"	FD	208-230 V	1	10 A	0.1	DIRECT	10'-0"	2.1
2.2	2	FREEZER CONDENSER	FSEC								208-230 V	3	11 A	2.5	DIRECT		2.2
3	1	WALK-IN COOLER	FSEC								120 V	1	15 A		DIRECT	8'-6"	3
3.1	2	WALK-IN COOLER COIL	FSEC					2"	0"	FD	120 V	1	2 A	0.1	DIRECT	10'-0"	3.1
3.2	2	COOLER CONDENSER	FSEC								208-230 V	3	6 A	0.9	DIRECT		3.2
4	7	COOLER SHELVING	FSEC														4
5	11	FREEZER SHELVING	FSEC														5
6	1	MOP CABINET	FSEC					2"	0"	FD							6
6.1	1	SERVICE FAUCET	FSEC	1/2"	3'-0"	1/2"	3'-0"										6.1
7	1	CHEMICAL STORAGE	FSEC														7
8	6	LOCKERS	GC														8
9	1	3 COMP SINK	FSEC					2"	0"	FS	208-240 V	3	45 A	2	DIRECT	1'-6"	9
9.1	2	PRE-RINSE FAUCET	FSEC	1/2"	1'-6"	1/2"	1'-6"										9.1
9.2	1	FAUCET	FSEC	1/2"	1'-6"	1/2"	1'-6"										9.2
10	1	SPARE NUMBER	-														10
11	1	FOOD WASTE DISPOSER	FSEC	1/2"	1'-6"			2"	10"	WD	208-240 V	3	10 A	3	DIRECT	1'-6"	11
12	1	DOUBLE BAR POT RACK	FSEC														12
13	4	DRYING RACK	FSEC														13
14	4	HAND SINK	FSEC	1/2"	1'-8"	1/2"	1'-8"	2"	1'-6"	WD							14
15	1	CAN RACK	FSEC														15
16	1	WASHER	GC														16
17	1	DRYER	GC														17
18	7	DRY STORAGE SHELVING	FSEC														18
19	2	DUNNAGE RACK	FSEC														19
20	1	WALL SHELF	FSEC														20
21	1	POT WASH	FSEC	3/4"	1'-6"	3/4"	1'-6"	2"	0"	FS	208-240 V	3	49 A		DIRECT	4'-0"	21
22	3	CAN OPENER	FSEC														22
23	3	SHEET PAN RACK	FSEC														23
24	1	ELECTRIC SLICER	FSEC								120 V	1	6 A		5-15P	4'-0"	24
24.1	1	SLICER STAND	FSEC														24.1
25	1	SMART WALL SHELVING	FSEC														25
26	1	PREP TABLE W/ DOUBLE SINK	FSEC					2"	0"	FS							26
26.1	1	PRE-RINSE FAUCET	FSEC	1/2"	1'-6"	1/2"	1'-6"										26.1
27	1	FOOD WASTE DISPOSER	FSEC	1/2"	1'-6"			2"	1'-6"	WD	208 V	3	7 A	2	DIRECT	1'-6"	27
28	1	REACH-IN REFRIGERATOR	FSEC								120 V	1	9 A	1/3	5-15P	4'-0"	28
29	1	SPARE NUMBER	-														29
30	3	INGREDIENT BIN	FSEC														30
31	1	4'x3" WORK TABLE	FSEC														31
32	1	PLANETARY MIXER	FSEC								120 V	1	10 A	3/4	5-15P	4'-0"	32
33	1	6' x30" WORK TABLE	FSEC														33
34	1	6'x30" WORK TABLE	FSEC														34
35	1	SMART WALL SHELVING	FSEC														35
36	1	HOLDING AND PROOFING CABINET	FSEC								120 V	1	17 A		5-20P	4'-0"	36
37	6	7'x30" WORK TABLE	FSEC														37
38	1	SPARE NUMBER	-														38
39	1	EXHAUST HOOD	FSEC								120 V	1	20 A		DIRECT	10'-0"	39
39.1	2	EXHAUST FAN	FSEC								208 V	1	13 A	1	DIRECT		39.1
39.2	1	SUPPLY FAN	FSEC								208 V	1	13 A	2	DIRECT		39.2
40	1	WARE WASHING SMART WALL	FSEC														40
41	1	CONVECTION STEAMER, ELECTRIC	FSEC	3/4"	2'-0"			2"	0"	FS	208 V	3	94 A		DIRECT	4'-0"	41
42	2	COMBI OVEN, ELECTRIC	FSEC	3/4"	2'-0"			2"	0"	FS	208 V	3	53 A	1/2	DIRECT	4'-0"	42
43	1	CONVECTION OVEN, ELECTRIC	FSEC								208 V	3	31 A	1/2	DIRECT	4'-0"	43
44	1	TILT SKILLET, ELECTRIC	FSEC	1/2"	2'-0"						208 V	1	58 A		DIRECT	4'-0"	44
44.1	1	FLOOR TROUGH	FSEC					4"	0"	FD							44.1
45	1	SPARE NUMBER	-														45
46	1	RANGE, 24", ELECTRIC	FSEC								208 V	3	38 A		DIRECT	4'-0"	46
47	1	5'x2' WORK TABLE	FSEC														47
47.1	1	4'x2' WORK TABLE	FSEC														47.1
48	1	ICE MAKER	FSEC	1/2"	5'-0"			2"	0"	FS	120 V	1	8 A		DIRECT	6'-0"	48
48.1	1	ICE BIN	FSEC					2"	0"	FS							48.1
49	1	SPARE NUMBER	-														49
50	1	SPARE NUMBER	-														50
51	1	2'x2' WORK TABLE	FSEC														51
52	1	PASS-THR HEATED CABINET	FSEC								208-230 V	1	16 A		DIRECT	8'-6"	52
53	1	PASS-THRU REFRIGERATOR	FSEC								120 V	1	8 A	1/3	5-15P	8'-6"	53
CO1	4	CONVIENCE OUTLET	-								120 V	1	15 A		5-15P	4'-0"	CO1
CO2	3	DROP CORD	-								120 V	1	15 A		5-15P	5'-0"	CO2

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3529
REGISTERED ARCHITECT

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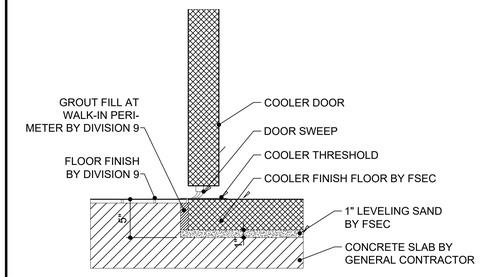
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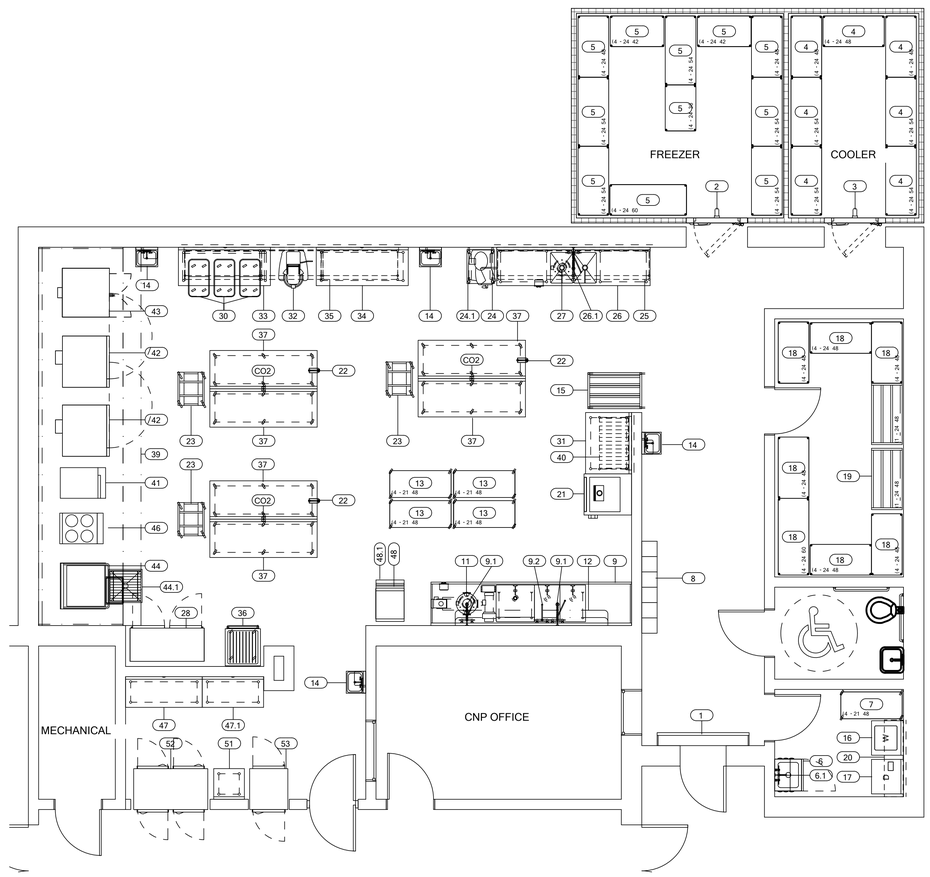
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FOOD SERVICE EQUIPMENT SCHEDULE

FS101



2 WALK-IN COLLER DETIAL
1 1/2"=1'-0"



1 FOOD SERVICE EQUIP. PLAN
1/4"=1'-0"

FOOD SERVICE EQUIPMENT SCHEDULE

ITEM #	QTY.	DESCRIPTION	FURNISHED BY
1	1	FLY FAN	FSEC
2	1	WALK-IN FREEZER	FSEC
2.1	2	WALK-IN FREEZER COIL	FSEC
2.2	2	FREEZER CONDENSER	FSEC
3	1	WALK-IN COOLER	FSEC
3.1	2	WALK-IN COOLER COIL	FSEC
3.2	2	COOLER CONDENSER	FSEC
4	7	COOLER SHELVING	FSEC
5	11	FREEZER SHELVING	FSEC
6	1	MOP CABINET	FSEC
6.1	1	SERVICE FAUCET	FSEC
7	1	CHEMICAL STORAGE	FSEC
8	6	LOCKERS	GC
9	1	3 COMP SINK	FSEC
9.1	2	PRE-RINSE FAUCET	FSEC
9.2	1	FAUCET	FSEC
10	1	SPARE NUMBER	-
11	1	FOOD WASTE DISPOSER	FSEC
12	1	DOUBLE BAR POT RACK	FSEC
13	4	DRYING RACK	FSEC
14	4	HAND SINK	FSEC
15	1	CAN RACK	FSEC
16	1	WASHER	OFCI
17	1	DRYER	OFCI
18	7	DRY STORAGE SHELVING	FSEC
19	2	DUNNAGE RACK	FSEC
20	1	WALL SHELF	FSEC
21	1	POT WASH	FSEC
22	3	CAN OPENER	FSEC
23	3	SHEET PAN RACK	FSEC
24	1	ELECTRIC SLICER	FSEC
24.1	1	SLICER STAND	FSEC
25	1	SMART WALL SHELVING	FSEC
26	1	PREP TABLE W/ DOUBLE SINK	FSEC
26.1	1	PRE-RINSE FAUCET	FSEC
27	1	FOOD WASTE DISPOSER	FSEC
28	1	REACH-IN REFRIGERATOR	FSEC
29	1	SPARE NUMBER	-
30	3	INGREDIENT BIN	FSEC
31	1	4'x3" WORK TABLE	FSEC
32	1	PLANETARY MIXER	FSEC
33	1	6' x30" WORK TABLE	FSEC
34	1	6'x30" WORK TABLE	FSEC
35	1	SMART WALL SHELVING	FSEC
36	1	HOLDING AND PROOFING CABINET	FSEC
37	6	7'x30" WORK TABLE	FSEC
38	1	SPARE NUMBER	-
39	1	EXHAUST HOOD	FSEC
39.1	2	EXHAUST FAN	FSEC
39.2	1	SUPPLY FAN	FSEC
40	1	WARE WASHING SMART WALL	FSEC
41	1	CONVECTION STEAMER, ELECTRIC	FSEC
42	2	COMBI OVEN, ELECTRIC	FSEC
43	1	CONVECTION OVEN, ELECTRIC	FSEC
44	1	TILT SKILLET, ELECTRIC	FSEC
44.1	1	FLOOR TROUGH	FSEC
45	1	SPARE NUMBER	-
46	1	RANGE, 24", ELECTRIC	FSEC
47	1	5'x2' WORK TABLE	FSEC
47.1	1	4'x2' WORK TABLE	FSEC
48	1	ICE MAKER	FSEC
48.1	1	ICE BIN	FSEC
49	1	SPARE NUMBER	-
50	1	SPARE NUMBER	-
51	1	2'x2' WORK TABLE	FSEC
52	1	PASS-THR HEATED CABINET	FSEC
53	1	PASS-THRU REFRIGERATOR	FSEC
CO1	4	CONVIENCE OUTLET	-
CO2	3	DROP CORD	-

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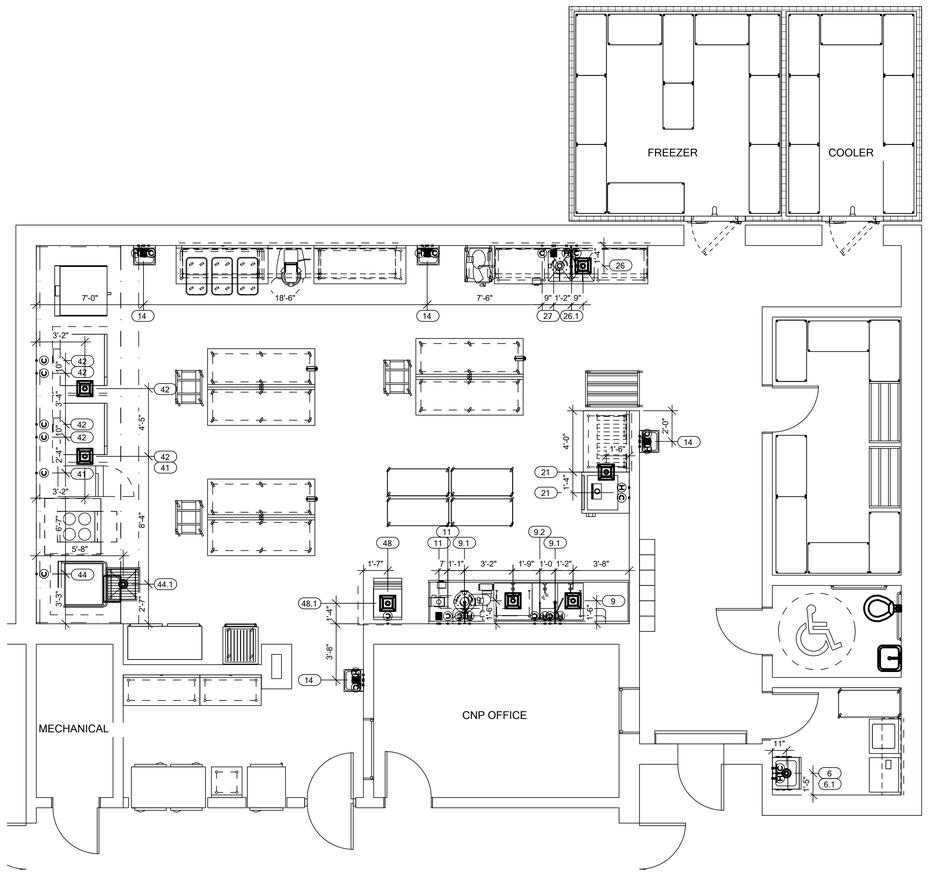
#	DESC	DATE

FOOD SERVICE EQUIPMENT PLAN

FS102

FOOD SERVICE EQUIPMENT PLUMBING SCHEDULE

ITEM #	QTY.	DESCRIPTION	C. W. SIZE	C. W. HEIGHT	H. W. SIZE	H. W. HEIGHT	WASTE SIZE	WASTE HEIGHT	WASTE TYPE	PLUMBING REMARKS	ITEM #
2.1	2	WALK-IN FREEZER COIL					2"	0"	FD	HEAT TAPE REQUIRED ON DRAIN	2.1
3.1	2	WALK-IN COOLER COIL					2"	0"	FD		3.1
6.1	1	SERVICE FAUCET	1/2"	3'-0"	1/2"	3'-0"					6.1
9	1	3 COMP SINK					2"	0"	FS		9
9.1	2	PRE-RINSE FAUCET	1/2"	1'-6"	1/2"	1'-6"					9.1
9.2	1	FAUCET	1/2"	1'-6"	1/2"	1'-6"					9.2
11	1	FOOD WASTE DISPOSER	1/2"	1'-6"			2"	10"	WD		11
14	4	HAND SINK	1/2"	1'-8"	1/2"	1'-8"	2"	1'-6"	WD		14
21	1	POT WASH	3/4"	1'-6"	3/4"	1'-6"	2"	0"	FS	COLD WATER TO CONDENSER	21
26	1	PREP TABLE W/ DOUBLE SINK					2"	0"	FS		26
26.1	1	PRE-RINSE FAUCET	1/2"	1'-6"	1/2"	1'-6"					26.1
27	1	FOOD WASTE DISPOSER	1/2"	1'-6"			2"	1'-6"	WD		27
42	2	COMBI OVEN, ELECTRIC	3/4"	2'-0"			2"	0"	FS	(2) CONNECTIONS	42
44	1	TILT SKILLET, ELECTRIC	1/2"	2'-0"							44
44.1	1	FLOOR TROUGH					4"	0"	FD	BLOCK OUT 6" BIGGER THAN TROUGH	44.1
48	1	ICE MAKER	1/2"	5'-0"			2"	0"	FS		48
48.1	1	ICE BIN					2"	0"	FS		48.1



1 FOOD SERVICE PLUMBING PLAN
1/4"=1'-0"

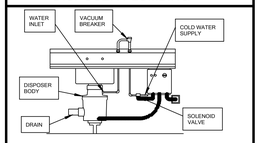
PLUMBING LEGEND

C	COLD WATER
H	HOT WATER
F	FILTERED WATER
■	WALL DRAIN
◎	FLOOR DRAIN
⊡	FLOOR SINK
⋈	GAS CONNECTION
H	HOT WATER STUB UP
C	COLD WATER STUB UP
●	DRAIN STUB UP

PLUMBING NOTES

1. ALL ROUGH-INS TO BE MADE IN COMPLIANCE WITH LOCAL CODE.
2. THIS DRAWING SHOWS ROUGH-IN REQUIREMENTS FOR ITEMS PROVIDED BY FSEC (SECTION 114000). AREA FLOOR DRAINS SHOWN ARE FOR REFERENCE ONLY. ADDITIONAL AREA FLOOR DRAINS MAY BE REQUIRED UNDER DIVISION 22.
3. DIMENSIONS ARE SHOWN FROM FINISHED FLOOR, FINISHED WALLS, AND/OR COLUMN CENTERLINES TO CENTER OF ROUGH-INS.
4. ROUGH-INS, FIELD INTERCONNECTIONS, AND FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT TO BE COMPLETED BY DIVISION 22.
5. GAS PRESSURE AT POINT OF USE NOT TO EXCEED 1/2" PSI. INSTALL FSEC (SECTION 114000) FURNISHED PRESSURE REGULATORS WHEN SHIPPED LOOSE.
6. GAS SHUT OFF VALVE FOR FIRE SUPPRESSION SYSTEM, IF FURNISHED BY FSEC (SECTION 114000) TO BE INSTALLED BY DIVISION 22. VALVE MUST BE ACCESSIBLE AND NOT CONCEALED IN WALL OR CEILING.
7. FAUCETS, BASKET/TWIST/LEVER WASTE, GAS HOSES, AND VACUUM BREAKERS PROVIDED BY FSEC (SECTION 114000) TO BE INSTALLED BY DIVISION 22. ADDITIONAL COMPONENTS, SUPPLY LINES, AND NIPPLES TO COMPLETE THESE CONNECTIONS TO BE PROVIDED BY DIVISION 22.
8. FLOOR TROUGH(S), PROVIDED BY FSEC (SECTION 114000) TO BE INSTALLED BY DIVISION 22.
9. MOP SINK/MOP SINK CABINETS, PROVIDED BY FSEC (SECTION 114000) TO BE INSTALLED BY DIVISION 22.
10. WATER FILTERS PROVIDED BY FSEC (SECTION 114000) TO BE INSTALLED BY (DIVISION 22) PLUMBING CONTRACTOR. DIVISION 22 TO FURNISH AND INSTALL CONNECTION MATERIALS BETWEEN WATER ROUGH-INS, TO FILTER(S), AND TO EQUIPMENT.
11. PROVIDE AT MINIMUM 120 DEGREE WATER AT THREE COMP SINKS AND DISH MACHINES.

DISPOSER PLUMBING



PLUMBING REQUIREMENTS:
PLUMBER TO PROVIDE AND INSTALL PIPING FROM ROUGH-IN LOCATION TO DISPOSER WATER INLET. PLUMBER TO INSTALL FSEC PROVIDED SOLENOID VALVE AND VACUUM BREAKER WITHIN THIS PIPING BETWEEN ROUGH-IN LOCATION AND WATER INLET ON DISPOSER BODY. 3" DRAIN CONNECTION TO A WALL DRAIN IS RECOMMENDED.

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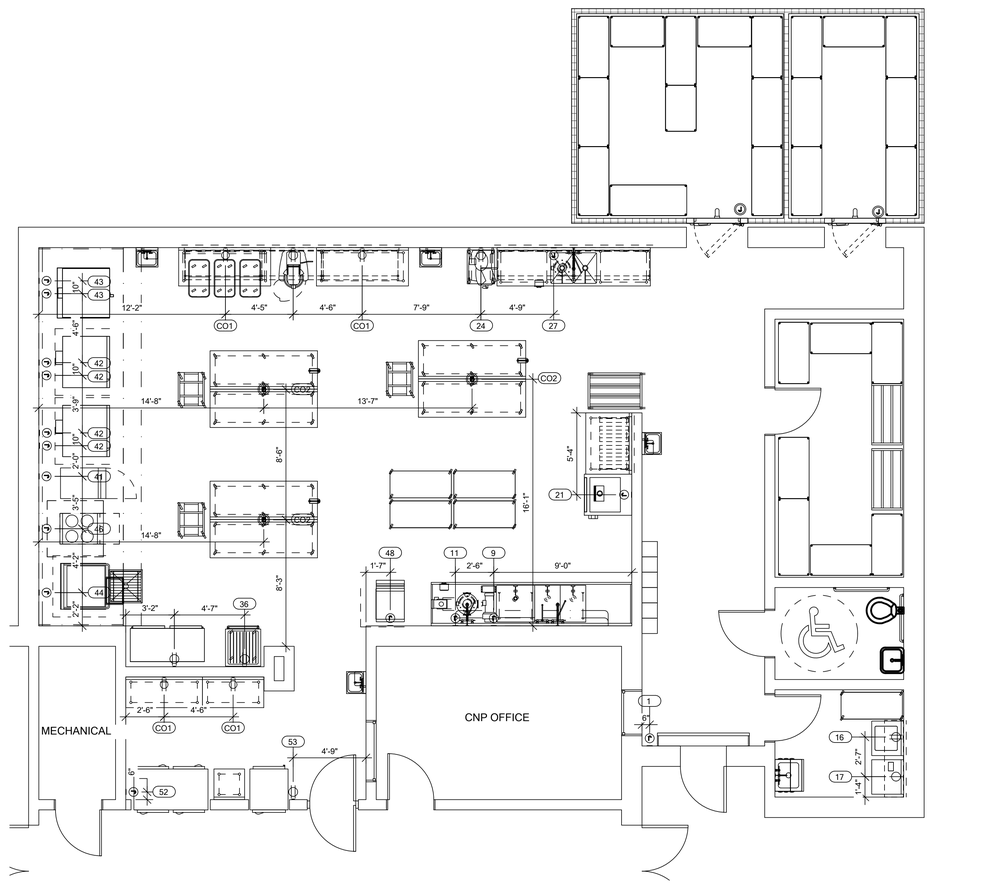
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FOOD SERVICE PLUMBING PLAN

FS103

FOOD SERVICE EQUIPMENT ELECTRICAL SCHEDULE

ITEM #	QTY.	DESCRIPTION	VOLTS	Ø	AMPS	HP	PLUG TYPE	RI HEIGHT	ELECTRICAL REMARKS	ITEM #
1	1	FLY FAN	120 V	1	5.0 A	1	DIRECT	8'-0"		1
2	1	WALK-IN FREEZER	120 V	1	15.0 A		DIRECT	8'-6"	SEE SHOP DRAWINGS	2
2.1	2	WALK-IN FREEZER COIL	208-230 V	1	10.0 A	0.1	DIRECT	10'-0"	SEE SHOP DRAWINGS	2.1
2.2	2	FREEZER CONDENSER	208-230 V	3	10.7 A	2.5	DIRECT		SEE SHOP DRAWINGS	2.2
3	1	WALK-IN COOLER	120 V	1	15.0 A		DIRECT	8'-6"	SEE SHOP DRAWINGS	3
3.1	2	WALK-IN COOLER COIL	120 V	1	2.0 A	0.1	DIRECT	10'-0"	SEE SHOP DRAWINGS	3.1
3.2	2	COOLER CONDENSER	208-230 V	3	6.3 A	0.9	DIRECT		SEE SHOP DRAWINGS	3.2
9	1	3 COMP SINK	208-240 V	3	45.1 A	2	DIRECT	1'-6"		9
11	1	FOOD WASTE DISPOSER	208-240 V	3	10.0 A	3	DIRECT	1'-6"		11
21	1	POT WASH	208-240 V	3	49.2 A		DIRECT	4'-0"		21
24	1	ELECTRIC SLICER	120 V	1	5.6 A		5-15P	4'-0"		24
27	1	FOOD WASTE DISPOSER	208 V	3	6.6 A	2	DIRECT	1'-6"		27
32	1	PLANETARY MIXER	120 V	1	9.5 A	3/4	5-15P	4'-0"		32
36	1	HOLDING AND PROOFING CABINET	120 V	1	16.7 A		5-20P	4'-0"		36
39	1	EXHAUST HOOD	120 V	1	20.0 A		DIRECT	10'-0"	SEE SHOP DRAWINGS	39
39.1	2	EXHAUST FAN	208 V	1	12.5 A	1	DIRECT		SEE SHOP DRAWINGS	39.1
39.2	1	SUPPLY FAN	208 V	1	12.5 A	2	DIRECT		SEE SHOP DRAWINGS	39.2
41	1	CONVECTION STEAMER, ELECTRIC	208 V	3	94.0 A		DIRECT	4'-0"		41
42	2	COMBI OVEN, ELECTRIC	208 V	3	53.0 A	1/2	DIRECT	4'-0"	(2) CONNECTIONS	42
43	1	CONVECTION OVEN, ELECTRIC	208 V	3	31.0 A	1/2	DIRECT	4'-0"	(2) CONNECTIONS	43
44	1	TILT SKILLET, ELECTRIC	208 V	1	58.0 A		DIRECT	4'-0"		44
48	1	ICE MAKER	120 V	1	8.2 A		DIRECT	6'-0"		48
52	1	PASS-THR HEATED CABINET	208-230 V	1	15.5 A		DIRECT	8'-6"		52
53	1	PASS-THRU REFRIGERATOR	120 V	1	7.6 A	1/3	5-15P	8'-6"		53
CO1	4	CONVIENCE OUTLET	120 V	1	15.0 A		5-15P	4'-0"	-	CO1
CO2	3	DROP CORD	120 V	1	15.0 A		5-15P	10'-0"	-	CO2



1 FOOD SERVICE ELECTRICAL PLAN
1/4"=1'-0"

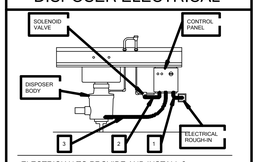
ELECTRICAL LEGEND

	DUPLEX RECEPTACLE IN WALL
	SINGLE RECEPTACLE IN WALL
J	J-BOX IN WALL
	DISCONECT SWITCH
	DUPLEX RECEPTACLE STUB-UP
	SINGLE RECEPTACLE STUB-UP
J	J-BOX STUB-UP
J	J-BOX DROP FROM ABOVE CEILING
D	DROP CORD FROM ABOVE CEILING

ELECTRICAL NOTES

1. ALL ROUGH-INS TO BE MADE IN COMPLIANCE WITH LOCAL CODE.
2. THIS DRAWING SHOWS ROUGH-IN REQUIREMENTS FOR ITEMS PROVIDED BY FSEC (SECTION 114000). ADDITIONAL ROUGH-INS HAVE BEEN PROVIDED FOR CONVENIENCE ONLY.
3. EQUIPMENT PROVIDED BY OTHERS INCLUDING BEVERAGE VENDOR EQUIPMENT AND OWNER PROVIDED EQUIPMENT MAY BE SHOWN FOR CONVENIENCE ONLY.
4. DISCONNECTS IF REQUIRED ARE TO BE PROVIDED BY DIVISION 26.
5. ALL ROUGH-IN DIMENSIONS ARE FROM FINISHED WALL TO CENTER OF RECEPTACLE. ALL ELEVATION DIMENSIONS ARE CRITICAL AND ARE FROM FINISHED FLOOR TO CENTER OF RECEPTACLE.
6. DISPOSER(S) REQUIRE ADDITIONAL CONNECTIONS DIVISION 26 TO REFER TO DISPOSER CONNECTION DRAWING.
7. DIVISION 26 TO INTERCONNECT LIGHTING J-BOXES ON MULTIPLE HOODS IN AN EXHAUST SYSTEM.
8. DIVISION 26 TO PROVIDE AND INTERCONNECT LOW VOLTAGE CONTROL WIRE BETWEEN DISH MACHINE AND EXHAUST FAN.
9. WALK-IN LIGHTING PROVIDED BY FSEC (SECTION 114000) ARE SHIPPED LOOSE. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRE TO INTERCONNECT LIGHTING.
10. ALL CONDUITS ENTERING A WALK-IN COOLER OR FREEZER SHALL BE SEALED AND/OR INSULATED. FOAM AND SEAL INSIDE AND OUTSIDE OF THE CONDUIT AND PENETRATION TO PREVENT CONDENSATION.
11. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ELECTRICAL WHIPS AND INTERCONNECTIONS ON FSEC (SECTION 114000) PROVIDED EQUIPMENT.

DISPOSER ELECTRICAL



ELECTRICIAN TO PROVIDE AND INSTALL 3 FLEXIBLE WATER TIGHT CONDUITS AND WIRING FOR THE DISPOSER.
1. INCOMING SERVICE FROM ROUGH-IN LOCATION TO CONTROL PANEL.
2. INTERCONNECTION OF SOLENOID VALVE TO CONTROL PANEL.
3. INTERCONNECTION OF DISPOSER BODY TO CONTROL PANEL.

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FOOD SERVICE ELECTRICAL PLAN

FS104