TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

8/18/2026

2WR # 26-00013

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(TO BE INCLUDED IN BASE BID)
REVISED 26-0211

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14 E.S.& P.C. PLAN FINAL PHASE
15 GSWCC DETAILS
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18 CONSTRUCTION DETAILS
19 CONSTRUCTION DETAILS



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STATE OF GEORGIA
EMILY ALBRIGHT FLOURNOY
CERTIFICATE NO. RA 019245
REGISTERED ARCHITECT
08/18/2026

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA
100% CONSTRUCTION DOCUMENTS

Project No.:	26-00013
Date:	8/18/2026
Drawn by:	WAG
Checked by:	WAG

Revisions:

No.	Date	Description

COVER SHEET

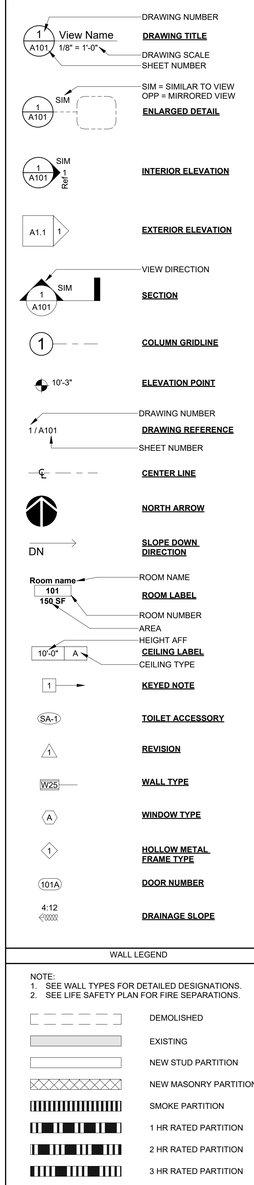
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ABBREVIATIONS

@	At
ABV	Above
ACT	Acoustic Ceiling Tile
ADJ	Adjacent
AFF	Above Finished Floor
ALT	Alternate
ALUM	Aluminum
APPROX	Approximately
ARCH	Architect/Architectural
AVG	Average
BD	Board
BLDG	Building
BLKG	Blocking
B.O.	Bottom of
BOS	Bottom of Step
BOT	Bottom
BSMT	Basement
CAB	Cabinet
CF	Cubic Feet
CG	Corner Guard
CIP	Cast In Place
CJ	Control Joint Construction Joint
CL	Center Line
CLG	Ceiling
CLR	Clear
CM	Construction Manager
CMU	Cement Masonry Unit
COL	Column
CONC	Concrete
CONST	Construction
CONT	Continuous
COORD	Coordinate
CPT	Carpet
CT	Ceramic Tile
CTR	Center
D	Deep or Depth
DBL	Double
DEMO	Demolish
DEPT	Department
DET	Detail
DIA	Diameter
DIAG	Diagonal
DIM	Dimension
DN	Down
DWG	Drawing
EA	Each
EJ	Expansion Joint
EL	Elevation
ELEC	Electric or Electrical
ELEV	Elevator
ENG	Engineer
EQ	Equal
EQUIP	Equipment
EXIST	Existing
EW	Equal Width
EXT	Exterior
FA	Fire Alarm
FDN	Foundation
FEC	Fire Extinguisher Cab
FFE	Finished Floor Elevation
FIN	Finish
FLR	Floor
FT	Foot or Feet
FUR	Furred or Furring
FURN	Furnished
GA	Gauge
GALV	Galvanize(d)
GC	General Contractor
GEN	General
GWB	Gypsum Wall Board
GYP	Gypsum
HC	Hollow Core
H/C	Handicap Accessible
HDW	Hardware
HM	Hollow Metal
HOR	Horizontal
HR	Hour
H	Height
HVAC	Heating, Vent. & A/C
IN	Inch
INCL	Included/ing
INFO	Information
INSUL	Insulation
INT	Interior
JC	Janitor's Closet
JST	Joist
JT	Joint
LAM	Laminate
LAV	Lavatory
LBS	Pounds
LF	Linear Feet
LOC	Location
MACH	Machine
MAINT	Maintenance
MAT	Material
MAX	Maximum
MECH	Mechanical
MFR	Manufacturer
MIN	Minimum or Minute
MISC	Miscellaneous
M.O.	Masonry Opening
MTD	Mounted
MTL	Metal
N/A	Not Applicable
N.I.C.	Not in Contract
NOM	Nominal
NO.	Number
NTS	Not to Scale
O.C.	On Center
OD	Outside Diameter
OFCI	Owner Furnished Contractor Installed
OPP	Opposite
OZ	Ounce
PERF	Perforated
PERIM	Perimeter
PH	Partial Height
PLAM	Plastic Laminate
PLUM	Plumbing
PLWD	Plywood
PREFAB	Prefabricated
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PT	Pressure Treated
PTD	Painted
PVC	Poly Vinyl Chloride
QTY	Quantity
QT	Quarry Tile
R	Radius
RD	Roof Drain, Road
REBAR	Reinforcing Bar
REF	Refrigerator
REINF	Reinforced
REQ'D	Required
REV	Revision
RM	Room
R.O.	Rough Opening
SC	Solid Core
SCHED	Schedule
SEC	Section
SF	Square Feet
SHT	Sheet
SIM	Similar
SPEC	Specification
SS	Stainless Steel
SQ	Square
STC	Sound Transmission Class
STD	Standard
STOR	Storage
STRUCT	Structural
SV	Sheet Vinyl
SYS	System
T&G	Tongue and Groove
TEL	Telephone
THRU	Through
THK	Thick
T.O.S.	Top of Steel
TLT	Toilet
TYP	Typical
U.N.O.	Unless Noted Otherwise
UTIL	Utility
VAR	Variable
VCT	Vinyl Composite Tile
VERT	Vertical
VEST	Vestibule
V.I.F.	Verify in Field
VOL	Volume
VWC	Vinyl Wall Covering
W	With
W/O	With Out
WC	Water Closet
WD	Wood
WNDW	Window
WF	Wide Flange
WT	Weight
WWF	Welded Wire Fabric

ARCHITECTURAL SYMBOLS



WALL LEGEND

NOTE:
1. SEE WALL TYPES FOR DETAILED DESIGNATIONS.
2. SEE LIFE SAFETY PLAN FOR FIRE SEPARATIONS.

- DEMOLISHED
- EXISTING
- NEW STUD PARTITION
- NEW MASONRY PARTITION
- SMOKE PARTITION
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION

GENERAL NOTES

USE OF CONTRACT DOCUMENTS

1. DRAWINGS AND SPECIFICATIONS OF ALL DISCIPLINES INCLUDED HEREIN CONSTITUTE THE FULL SCOPE OF THIS PROJECT. THESE DOCUMENTS ARE INTENDED TO ESTABLISH THE FULL CONTRACTUAL OBLIGATION OF THE GENERAL CONTRACTOR TO COMPLETE THE WORK SHOWN AND SPECIFIED. IT SHALL BE THE GENERAL CONTRACTOR'S ULTIMATE RESPONSIBILITY TO COORDINATE THE PROPOSALS AND WORK OF ALL TRADES.
2. ARCHITECTURAL AND ENGINEERING DRAWINGS ARE COMPLIMENTARY. ITEMS INDICATED ON ARCHITECTURAL DRAWINGS SHALL BE PROVIDED WHETHER OR NOT THEY ARE INDICATED ON AND/OR COORDINATED WITH CONSULTANTS' DRAWINGS. ANY CONFLICTS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
3. CONTRACTORS SHALL COORDINATE THE SCOPE OF THEIR WORK WITH THE CONTRACT DOCUMENTS. PLANS AND SPECIFICATIONS SHALL NOT BE SEPARATED. NO CLAIMS FOR 'EXTRAS WILL BE CONSIDERED DUE TO SUB-CONTRACTOR NOT RELATING SCOPE OF WORK TO CONTRACT DOCUMENTS.
4. ALL WORK IS TO BE IN STRICT COMPLIANCE WITH ALL STATE LAWS AND CODES WHICH APPLY TO THIS USE AND TO GENERALLY ACCEPTED CONSTRUCTION TRADE PRACTICES.
5. THE ARCHITECT WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
6. SECTIONS AND DETAILS CONTAINED IN THE CONTRACT DOCUMENTS ARE TYPICAL. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPONENTS AND/OR CONSTRUCTION NOTED OR INDICATED IN OTHER SIMILAR AREAS OF THE PROJECT IF THEY CAN BE REASONABLY INFERRED TO BE A PART OF THE ASSEMBLY BASED ON OTHER SIMILAR SECTIONS AND DETAILS CONTAINED IN THE CONTRACT DOCUMENTS.
7. NOT ALL COMPONENTS IN EACH DETAIL MAY BE SPECIFICALLY CALLED OUT ON THAT PARTICULAR ARCHITECTURAL DETAIL. CONTRACTOR SHALL STILL BE RESPONSIBLE FOR PROVIDING THESE ITEMS IF THEY CAN BE REASONABLY INFERRED TO BE A PART OF THE ASSEMBLY BASED ON OTHER SIMILAR DETAILS CONTAINED WITHIN THE CONTRACT DOCUMENTS.
8. DO NOT SCALE ANY DRAWINGS TO DETERMINE DIMENSIONS. RELY ONLY ON FIELD MEASUREMENT AND WRITTEN DIMENSIONS FOR NEW WORK.
9. ALL DIMENSIONS ARE FROM FACE OF STUD OR FACE OF MASONRY (UNO).
10. ALL DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO PROCEEDING WITH THE WORK OF THIS CONTRACT. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND CONTRACT DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
11. "SCALE" INDICATED ON THE ELEVATIONS MAY NOT BE REPRESENTATIVE OF A SCALED DRAWING. THE CONTRACTOR SHALL MAKE FIELD MEASUREMENTS AS REQUIRED TO ASCERTAIN THE EXTENT AND QUANTITY OF WORK TO BE PERFORMED.
12. SUBCONTRACTORS SHALL INVESTIGATE ALL EXISTING CONDITIONS ASSOCIATED WITH THEIR SCOPE OF WORK AND VERIFY REQ'D QUANTITIES OF MATERIALS PRIOR TO PROVIDING A BID TO THE GENERAL CONTRACTOR. NO CHANGE ORDERS WILL BE GRANTED FOR ADDITIONAL WORK REQ'D WHICH IS EVIDENT FROM FIELD INVESTIGATION AND IS CONSISTENT WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
13. SUBCONTRACTORS SHALL VERIFY REQ'D QUANTITIES OF MATERIALS WITH THE GENERAL CONTRACTOR PRIOR TO PURCHASING. NO CHANGE ORDERS WILL BE GRANTED FOR ADDITIONAL QUANTITIES OR DETAIL WORK REQ'D WHICH IS EVIDENT FROM FIELD CONDITIONS AND IS CONSISTENT WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
14. ANY WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL EXPENSE TO THE OWNER, ARCHITECT, OR CONSULTANTS.

CONTRACTOR RESPONSIBILITY

1. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND INSPECTIONS
2. CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS AND FEES REQUIRED, NOT NORMALLY COVERED BY THE BUILDING PERMIT.
3. THE CONTRACTOR SHALL FILE ALL NECESSARY CERTIFICATES OF INSURANCE, PAY ALL FEES, AND OBTAIN ANY AND ALL BONDS REQUIRED BY ANY AGENCY IN ORDER TO DO THE WORK HEREIN DESCRIBED.
4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BELOW GRADE AND RELATED SERVICE CONNECTIONS WITH THE RESPECTIVE UTILITY COMPANIES.
5. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL TRASH, DEBRIS AND CONSTRUCTION MATERIALS DUE TO CONSTRUCTION OR DEMOLITION PRIOR TO COMPLETION OF THE WORK. THE CONTRACTOR SHALL LEAVE THE SITE IN A CONDITION EQUAL TO OR BETTER THAN IT WAS BEFORE COMMENCEMENT OF WORK ON THIS CONTRACT. THE CONTRACTOR SHALL ALSO ENSURE THAT TRASH AND DEBRIS ARE NOT BLOWN OR SPREAD ON OR OFF SITE DURING PERFORMANCE OF THE WORK.
6. THE CONTRACTOR SHALL RESTRICT ACCESS TO THE ROOF TO ONLY THOSE FORCES NEEDING ACCESS TO THE ROOF IN ORDER TO COMPLETE THEIR WORK. FINISHED ROOF SURFACES ARE TO BE PROTECTED AT ALL TIMES.
7. THE CONTRACTOR SHALL LIMIT HIS WORK AND FORCES UNDER HIS CONTROL TO ONLY THOSE AREAS OF WORK AS DEFINED BY THE CONTRACT DOCUMENTS.
8. THE CONTRACTOR SHALL PROVIDE CRAFTSMAN-LIKE INSTALLATION AND FINISH OF ALL EXPOSED CONSTRUCTION SYSTEMS.
9. PAINT ALL EXPOSED SCHEDULED PIPING, CONDUIT AND MECHANICAL EQUIPMENT IN AREAS NOTED TO BE PAINTED.
10. THE CONTRACTOR SHALL REPAIR AT HIS EXPENSE DAMAGE TO ANY FINISHES TO REMAIN WHICH ARE INCURRED DURING WORK ON THIS CONTRACT.
11. THE CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTION FOR THE BUILDING AND ITS CONTENTS DURING THE COURSE OF THE WORK. ALL OPENINGS IN ANY WALL OR ROOF SHALL BE PROTECTED FROM ALL FORMS OF WEATHER OR WATER.

FIRE RATED CONSTRUCTION

1. ALL DUCT PENETRATIONS THROUGH PARTITIONS AND CEILINGS SHALL BE PROVIDED WITH NECESSARY FRAMES AND BRACING AROUND THE OPENING.
2. DUCT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE PROVIDED WITH AUTOMATIC FIRE DAMPERS AS REQUIRED BY CURRENT FIRE CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
3. THE CONTRACTOR SHALL PROVIDE A COMPLETE FIRE SAFE BARRIER SEALING ALL AIR SPACES AND OPENINGS IN FIRE PROTECTED WALLS.
4. ALL FIRE AND/OR SMOKE BARRIERS OR WALLS SHALL BE EFFECTIVELY AND PERMENANTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE A DECORATIVE CEILING AND/OR IN CONCEALED SPACES WITH LETTERS A MINIMUM OF (2) INCHES HIGH ON A CONTRASTING BACKGROUND SPACED A MAXIMUM OF (12) FEET ON CENTER WITH A MINIMUM OF (1) PER WALL OR BARRIER IN ACCORDANCE WITH MODIFICATIONS OF THE 2006 STANDARD FIRE PREVENTION CODE, 120-3-3, CHAPTER 5 OF THE RULES AND REGULATIONS OF THE FIRE SAFETY COMMISSIONER. THE HOURLY RATING SHALL BE INCLUDED ON ALL RATED BARRIERS OR WALLS IN FORMAT: "-- HOUR FIRE AND SMOKE BARRIER. PROTECT ALL OPENINGS."
5. ALL PENETRATIONS THROUGH FIRE RATED SYSTEMS (WALLS, FLOORS, CEILINGS, ETC.) SHALL BE SEALED WITH 3M GREENGUARD FIRE BARRIER CAULK CP25NS/S NO-SAG OR CP25SSL SELF-LEVELING OR EQUAL. DEPTH OF CAULK SHALL BE AS REQUIRED TO ACHIEVE THE REQUIRED FIRE RATING FOR THAT SYSTEM. PROVIDE BACKER ROD AS NECESSARY FOR BACK UP MATERIAL. NOTE BOTH SIDES OF RATED SYSTEMS SHALL BE CAULKED.
6. FIRESTOPPING REQUIREMENT: PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF TEST STANDARD SPECIFICS FOR FIRESTOPS, ASTM E814.

NEW CONSTRUCTION

1. ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE.
2. ALL INSULATIONS NOTED ON PLANS SHALL BE NONCOMBUSTIBLE AND MAINTAIN THERMAL AND MOISTURE PROTECTION AS NOTED IN THE SPECIFICATIONS.
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS (INCLUDING, BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS AND INSULATION, CONDUITS, RACEWAYS, SPRINKLER SYSTEM, LIGHT FIXTURES, CEILING SYSTEMS, AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED IN THE DRAWINGS AND THE FINISH SCHEDULE. (CEILING HEIGHT DIMENSIONS ARE TO THE FINISH SURFACE OF CEILING.) CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF ANY CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
4. ACCESS PANELS SHALL BE PROVIDED AND INSTALLED WHEREVER REQUIRED BY BUILDING CODE OR FOR THE PROPER OPERATION OR MAINTENANCE OF MECHANICAL OR ELECTRICAL EQUIPMENT, WHETHER OR NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND TYPE OF ACCESS PANEL WITH OTHER CONTRACTORS' WORK AND RECEIVE APPROVAL OF THE ARCHITECT. ACCESS PANEL SHALL BE AS SPECIFIED. NO ACCESS PANEL SHALL BE LOCATED, FRAMED OR INSTALLED WITHOUT THE EXPRESSED APPROVAL OF THE ARCHITECT.
5. ALL DUCT PENETRATIONS THROUGH PARTITIONS AND CEILINGS SHALL BE PROVIDED WITH NECESSARY FRAMES AND BRACING AROUND THE OPENING AND SHALL BE PROVIDED WITH AUTOMATIC FIRE DAMPERS AS REQUIRED BY THE BUILDING DEPARTMENT FOR FIRE-RATED PENETRATIONS.
6. HORIZONTAL JOINT REINFORCEMENT IS GENERALLY NOT SHOWN FOR REASONS OF CLARITY. TIES AND ANCHORS SPECIFICALLY NOTED ON DETAILS ARE IN ADDITION TO HORIZONTAL JOINT REINFORCEMENT UNLESS SPECIFICALLY NOTED OTHERWISE.
7. SIZE OF MECHANICAL AND ELECTRICAL EQUIPMENT PADS AND BASES ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY DIMENSIONS WITH RESPECTIVE EQUIPMENT MANUFACTURER.
8. CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES, BLOCKING, AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, TOILET ACCESSORIES AND ALL FLOOR-MOUNTED OR SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.
9. ALL DISSIMILAR METALLIC MATERIALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT GALVANIC ACTION.
10. FILLED CMU CELLS IN ARCHITECTURAL DRAWINGS ARE IN ADDITION TO THOSE SHOWN ON STRUCTURAL DRAWINGS AND SHALL BE REINFORCED AS INDICATED THEREIN.

SITE WORK

1. SOD, LANDSCAPING, SIDEWALKS, CURBS OR ANY OTHER SITE APPURTENANCES DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE PRIOR TO COMPLETION OF THIS PROJECT.
2. WHERE CONC. WALKWAYS ABUT EXTERIOR MASONRY WALLS, CONTRACTOR SHALL ADJUST THE HEIGHT OF WEEPS AND BASE FLASHING AS NECESSARY TO PROVIDE CAVITY DRAINAGE ABOVE ADJACENT SURFACES, TYP.

GC NOTE:

THESE DOCUMENTS WERE ORIGINALLY PREPARED FOR A PROTOTYPICAL FIRE STATION WITHOUT AN EXACT SITE.

THESE DOCUMENTS CONTAIN CIVIL DOCUMENTS FOR THIS PROJECT. PROJECT NORTH MAY VARY FROM CIVIL DOCUMENTS.

PLEASE NOTE REFERENCES TO ALTERNATES THROUGHOUT THE SET, SPECIFICALLY IN THE STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL SETS. AS A PART OF THE BURKES CHAPEL ROAD SITE THERE IS ONLY ONE ALTERNATE TO BE GIVEN.

ADD ALTERNATE 1 - WIDEN THE APPARATUS BAY TO ACCOMMODATE A THIRD BAY - SEE PLANS ON SHEET A1.1A AND OTHER STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS FOR THIS ALTERNATE.

BID NOTES:

TROUP COUNTY WILL BE RESPONSIBLE FOR SUBMITTING THE PLANS TO THE LOCAL FIRE MARSHAL AND THE BUILDING INSPECTIONS AND CODE DEPARTMENT

THE GENERAL CONTRACTOR WILL NOT BE RESPONSIBLE FOR PAYING PERMIT FEES

TROUP COUNTY WILL PAY ALL WATER AND SEWER TAP FEES

TROUP COUNTY WILL PROVIDE AND INSTALL THE WATER METER

THERE IS NO SPEAKER/PAGING SYSTEM WITH ASSOCIATED WIRING, DEVICES, OR EQUIPMENT IN THE GENERAL CONTRACTOR'S BASE CONTRACT

SEE SPECIFICATIONS SECTION 012100 - ALLOWANCES FOR GC SUPPLIED APPLIANCES

LANDSCAPING WILL BE FURNISHED AND INSTALLED BY THE OWNER - GC TO PROVIDE PERMANENT GRASSING, ETC. PER ES&PC PLAN FINAL PHASE

A SUBSOIL INVESTIGATION REPORT (GEOTECH OR SOILS REPORT) IS NOT AVAILABLE AT THIS TIME; ASSUME FAVORABLE SOIL CONDITIONS IN THE BASE BID

THE OWNER WILL BE PROVIDING ALL SIGNAGE FOR THE GC TO INSTALL, WITH THE EXCEPTION OF THE 48" NUMERAL "1" BEING PROVIDED UNDER THE BASE BID.

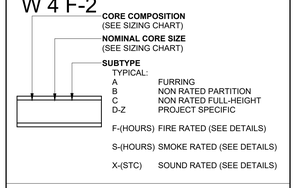
FOR CLARITY, THE GENERAL CONTRACTOR SHALL CARRY THE COST OF THE EXHAUST REMOVAL SYSTEM, MATERIAL AND LABOR, PROVIDED BY THE OWNER'S VENDOR, MAGNEGRIP.

DELETE THE VOICE EVACUATION SYSTEM AS PART OF THE FIRE ALARM SYSTEM.

WALL TYPE GENERAL NOTES

1. WALL TYPES ARE GENERIC IN NATURE AND DO NOT SHOW EVERY POSSIBLE CONFIGURATION OR CONDITION. REFER TO PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR SPECIFIC DESIGN INFORMATION AND ELEMENTS WHICH MAY ALTER INFORMATION CONTAINED IN WALL TYPES.
2. NEW EXTERIOR WALLS ARE DETAILED IN BUILDING AND WALL SECTIONS.
3. SEE STRUCTURAL PLANS FOR ADDITIONAL FRAMING INFORMATION AND REINFORCING.
4. COORDINATE SEALING OF PENETRATIONS AT RATED WALLS WITH MEP DRAWINGS AND SPECIFICATIONS.
5. REFER TO NOTED UL ASSEMBLY FOR ADDITIONAL CONSTRUCTION INFORMATION.
6. ALL FIRE WALLS, SMOKE WALLS, AND WALLS REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS ARE TO BE PERMANENTLY STENCIL LABELED ACCORDING TO FIRE CODE REQUIREMENTS IN ACCESSIBLE CONCEALED FLOOR, CEILING OR ATTIC SPACES.
7. REFER TO LIFE SAFETY PLANS FOR CONTINUITY OF ALL RATED PARTITIONS.
8. A FINISH OR FIRE RATING INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH IS TO BE FINISHED OR FIRE RATED.

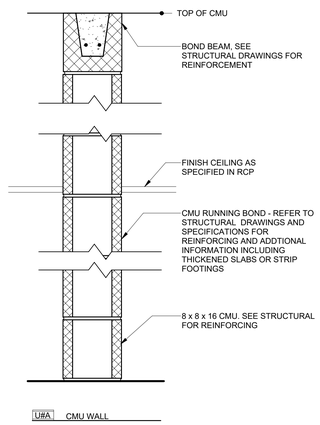
WALL TAG LEGEND



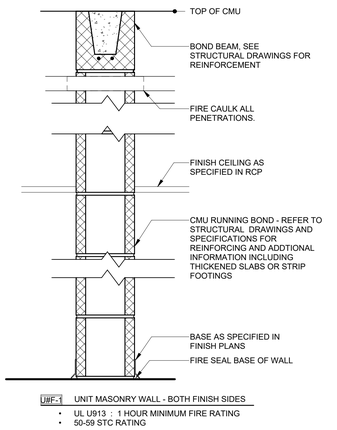
SEE WALL TYPE DETAILS FOR WALL ASSEMBLIES USED IN THIS PROJECT AND ADDITIONAL INFORMATION.

WALL TYPE NOMINAL SIZING

# - NOMINAL CORE SIZE	CORE COMPOSITION: METAL STUD (M)	WOOD STUD (W)	CMU (U)	BRICK (B)	CONCRETE (C)
1	(HAT CHANNEL)	1x (FURRING STRIPS)	-	-	-
2	1 5/8"	2x2	-	-	-
3	2 1/2"	2x3	-	-	-
4	3 5/8"	2x4	4"	1 WYTHE	4"
6	6"	2x6	6"	-	6"
8	8"	2x8	8"	2 WYTHE	8"
10	10"	2x10	10"	-	10"
12	12"	2x12	12"	3 WYTHE	12"



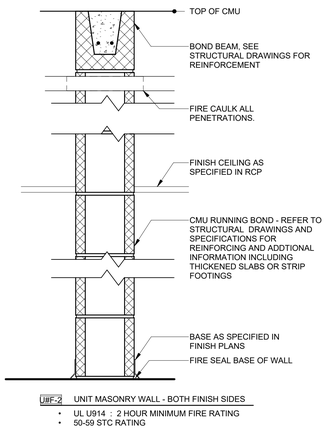
U#A CMU WALL



U#F-1 UNIT MASONRY WALL - BOTH FINISH SIDES

- UL U913 : 1 HOUR MINIMUM FIRE RATING
- 50-59 STC RATING

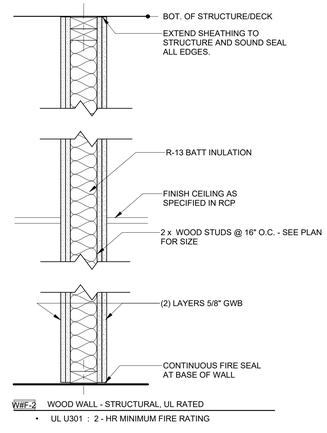
USE CLASS D-2 FIRE RATED UNITS AT ALL RATED LOCATIONS (AS SHOWN ON LS1.1)



U#F-2 UNIT MASONRY WALL - BOTH FINISH SIDES

- UL U914 : 2 HOUR MINIMUM FIRE RATING
- 50-59 STC RATING

USE CLASS D-2 FIRE RATED UNITS AT ALL RATED LOCATIONS (AS SHOWN ON LS1.1)



W#F-2 WOOD WALL - STRUCTURAL, UL RATED

- UL U301 : 2 - HR MINIMUM FIRE RATING

ABOVE (2) HR RATED CMU - SEE LIFE SAFETY PLAN AND BUILDING SECTIONS FOR SPECIFIC LOCATION

2WR ARCHITECTS
11 Ninth Street, Suite 120
Columbus, GA 31901
P. (706) 571-6923

STATE OF GEORGIA
EMILY ALBRIGHT FLOURNOY
CERTIFICATE NO. RA 018045
REGISTERED ARCHITECT
08/18/2026

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

Project No.:	26-00013
Date:	8/18/2026
Drawn by:	WAG
Checked by:	EF
Revisions:	

No.	Date	Description

GENERAL NOTES & LEGENDS

T1.2

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FILE PATH: C:\Users\AlexGriggs_rmudak7\AppData\Local\Autodesk\Revit\Autodesk Revit 2026\Collaboration\Central\Q2C2DJCCL7RDHH7Z3e-725598-5e6b-4222-a302-829510372d5229a9376e2b-1d6c-41a6-ab7c-80f1b58006691.rvt



- S2 LOW / HAZARD STORAGE (4,253 SF)
- TYPE VB UNSPRINKLERED
- ALLOWABLE AREA = 13,500 SF
- ALLOWABLE HEIGHT = 40'-0"
- ALLOWABLE NUMBER OF STORIES = TWO

NFPA 101 - 2018
ORDINARY HAZARD STORAGE

- DEAD END CORRIDOR = 50 FT
- COMMON PATH OF TRAVEL = 50 FT
- TRAVEL DISTANCE = 200 FT

LODGING / ROOMING HOUSE (3,345 SF)
NFPA 101 - 2018 REVIEW

- DEAD END CORRIDORS - NO REQUIREMENT
- TRAVEL DISTANCE - NO REQUIREMENT
- COMMON PATH OF TRAVEL - NO REQUIREMENT
- ALL SLEEPING ROOMS SHALL BE SEPARATED FROM ESCAPE ROUTE CORRIDORS BY SMOKE PARTITIONS
- IN ADDITION TO PRIMARY ROUTE, EACH SLEEPING ROOM AND LIVING AREA SHALL HAVE SECOND MEANS OF ESCAPE...
- TRANSFER GRILLES SHALL BE PROHIBITED IN CORRIDOR WALLS
- DOORS SHALL BE PROVIDED WITH LATCHES OR OTHER MECHANISMS SUITABLE FOR KEEPING THE DOORS CLOSED; DOORS SHALL BE SELF-CLOSING OR AUTOMATIC CLOSING UPON DETECTION OF SMOKE.
- PROVIDE A FIRE ALARM SYSTEM IAW SECTION LSC 9.6 / INITIATION SHALL BE BY MANUAL MEANS
- PROVIDE APPROVED SMOKE ALARMS
- PROVIDE CARBON MONOXIDE ALARMS OR CARBON MONOXIDE DETECTORS / OUTSIDE EACH SEPARATE SLEEPING AREA.
- PROVIDE **AUTOMATIC SPRINKLER SYSTEM** WITHIN LODGING AREA IAW **NFPA 13R** (NFPA 101 26.3.6.2.2)
- PROVIDE PORTABLE FIRE EXTINGUISHERS

GROUP R-3 IBC 2018 REVIEW (3,345 SF)

- TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLAN FOR **TYPE VB CONSTRUCTION** = 60
- NEW GROUP R OCCUPANCIES ARE REQUIRED TO BE PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.8 **S13R** HAS ALLOWABLE HEIGHT OF 60'
- TABLE 504.4 R-1 S13R FOR TYPE V CONSTRUCTION ALLOWS 3 STORIES ABOVE THE GRADE PLAN
- TABLE 506.2 ALLOWABLE AREA = 7,000 SF

DESIGN FOR A NFPA 13R/13D HYBRID SPRINKLER SYSTEM WILL BE SUBMITTED FOR THE GROUP R-3 AREA USING AN ADDITIONAL STORAGE INTERIOR STORAGE TANK STORING THE REQUIRED CAPACITY OF WATER NECESSARY SINCE THERE IS NO WATER AVAILABLE ON-SITE EXCEPT FOR WELL WATER.

ASSUMED PROJECT NORTH

1 / LS1.1 **LIFE SAFETY PLAN**
SCALE: 1/8" = 1'-0"

GENERAL CODE NOTES

1. OCCUPANT LOAD OF ALL SPACES CALCULATED PER TABLE 1004.5 (IBC)
2. ALL SPACES NOT PROVIDED WITH A SPATIAL USE TAG OR OCCUPANT LOAD ARE CONSIDERED INCIDENTAL USE AND/OR ARE NOT CONSIDERED NORMALLY OCCUPIED SPACES.
3. ALL EXIT AND EXIT ACCESS DOORS PROVIDE 34" OF CLEAR EXIT WIDTH IF SINGLE LEAF AND 68" IF DOUBLE LEAF UNLESS OTHERWISE NOTED. AS SUCH, EGRESS CAPACITIES ARE 170 AND 340 OCCUPANTS RESPECTIVELY PER IBC SECTION 1005.
4. WHERE NON-FIRE RATED PARTITIONS INTERSECT FIRE RATED PARTITIONS THE FIRE RATED PARTITION SHALL REMAIN INTACT AND CONTINUOUS.
5. INSTALL ALL SPECIFIED FIRE EXTINGUISHERS AND CABINETS WHERE REQUIRED BY APPLICABLE CODES. PROVIDE AND INSTALL ANY ADDITIONAL CODE REQUIRED FIRE EXTINGUISHERS AND CABINETS WHERE DIRECTED BY CODE OFFICIALS AND/OR ARCHITECT. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. COORDINATE LOCATIONS OF ALL FIRE PULL STATIONS, EXIT, LIGHTS, STANDPIPES, STROBES, AND EMERGENCY LIGHTING WITH ARCHITECT UNLESS OTHERWISE INDICATED. ALL STROBE LIGHTS SHALL BE CEILING MOUNTED TYPE WHERE EVER POSSIBLE. ANY WALL-MOUNTED STROBES SHALL BE MOUNTED AT 80" AFF (MINIMUM) TO BOTTOM OF STROBE LIGHT, UNLESS OTHERWISE NOTED (UON).
7. ALL SPRINKLER HEADS OCCURRING IN ACOUSTICAL TILE TO BE CENTERED IN ACOUSTICAL TILE UNLESS OTHERWISE NOTED. ALL SPRINKLER HEADS OCCURRING IN GYPSUM BOARD CEILING SHALL BE LOCATED WITH RELATION TO LIGHT FIXTURES. GENERAL CONTRACTOR TO SUBMIT SPRINKLER HEAD LOCATION SHOP DRAWING TO: 1) FIRE MARSHALL FOR APPROVAL AND; 2) ARCHITECT FOR COORDINATION PRIOR TO INSTALLATION OF SPRINKLERS.
8. INSTALL ALL SPECIFIED EXIT SIGNS IN LOCATIONS APPROVED BY LOCAL JURISDICTIONS. PROVIDE AND INSTALL ANY ADDITIONAL EXIT SIGNS WHERE DIRECTED BY CODE OFFICIALS. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

LIFE SAFETY SYMBOLS LEGEND

- Room name / 101 / 150 SF — **UNOCCUPIED SPACE TAG**
- ROOM NAME / RM # | AREA / ## SF/P | P = # — OCCUPANT LOAD RATIO / OCCUPANT LOAD — **OCCUPIED SPACE TAG**
- WAITING AREA 150 SF, P = 10 — AREA NAME; **NET AREA OCCUPANT LOAD** (SUBSET OF ROOM TOTAL); OCCUPANT LOAD
- **EXIT DISCHARGE**
- 54 — **NUMBER OF OCCUPANTS IN EXIT PATH**
- S2 — **SPATIAL USE TAG**
- ILLUMINATED FACE / DIRECTIONAL ARROW — **EXIT LIGHT**
- P = xx — **OCCUPANT LOAD**
- FEC-# — **FIRE EXTINGUISHER CABINET**
- FE — **BRACKET MOUNTED FIRE EXTINGUISHER**
- PATH OF TRAVEL ORIGINATION / TD: 90'-4" / CPT: 75'-10" — **EXIT PATH AND DIRECTION OF TRAVEL**; **TRAVEL DISTANCE**; **COMMON PATH OF TRAVEL**
- **SMOKE PARTITION**
- **2 HR FIRE PARTITION**

PROJECT SUMMARY

FIRE STATION IS A **SEPARATED MIXED OCCUPANCY, SINGLE STORY BUILDING - NEW CONSTRUCTION**

IBC OCCUPANCY: MIXED

	TWO-BAY	THREE-BAY
GROUP R-3	3,345 SF	3,345 SF
GROUP S-2	4,253 SF	5,456 SF
	7,598 SF ENCLOSED AREA	**8,801 SF**
COVERED 400 @ 1/2	200 SF	

NFPA 101 OCCUPANCY : MIXED

LODGING / ROOMING HOUSE
2 HOUR OCCUPANCY SEPARATION
LOW HAZARD STORAGE WITH INCIDENTAL BUSINESS

OCCUPANT LOAD TOTAL : PER LIFE SAFETY PLAN = 53
5 TRANSIENT RESIDENTS + 2 OFFICES

CONSTRUCTION TYPE : **TYPE VB UNSPRINKLERED STORAGE / SPRINKLERED NFPA 13R LODGING**

EXITS REQUIRED: 2

SEE PLAN FOR FIRE RATED PARTITION REQUIREMENTS

APPLICABLE CODES W/ CURRENT STATE AMENDMENTS	IBC	2024 EDITION
	IBC MECHANICAL CODE	2024 EDITION
	IBC PLUMBING CODE	2024 EDITION
	IBC FUEL GAS CODE	2024 EDITION
	NATIONAL ELECTRICAL CODE	2023 EDITION
	NFPA 101	2024 EDITION
	ADA	2010 EDITION
	IECC	2015 EDITION
	INTERNATIONAL FIRE CODE	2024 EDITION
	NFPA 13R	2022 EDITION
	NFPA 13D	2022 EDITION

2WR ARCHITECTS
11 Ninth Street, Suite 120
Columbus, GA 31901
P. (706) 571-6923

STATE OF GEORGIA
EMILY ALBRIGHT FLOURNOY
CERTIFICATE NO. RA 019245
REGISTERED ARCHITECT
08/18/2026

TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

Project No.: 26-00013
Date: 8/18/2026
Drawn by: WAG
Checked by: WAG
Revisions:

No.	Date	Description

LIFE SAFETY PLAN

LS1.1

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CONSTRUCTION PLANS

TROUP COUNTY FIRE STATION @ BURKES CHAPEL RD.

8 PLANS PREPARED: AUGUST 17, 2026

14 FOR STAND ALONE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

17 REVISIONS OR AMENDMENTS TO THESE PLANS SHOULD BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR REVIEW.

NPDES CERTIFICATIONS

12
1. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES MEETS THE DESIGN REQUIREMENTS AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

13
2. "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION."

3. GEORGIA'S 2012 OR SUBSEQUENT 305(b)/303(d) LIST DOCUMENTS HAVE BEEN CONSULTED. IT WAS DETERMINED THAT THIS SITE DOES NOT DRAIN INTO AN IMPAIRED STREAM SEGMENT, NOR IS WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

8-17-26

SCOTT HARRIS, P.E. # 35488, GWSCC # 4456 DATE

OWNER:
Troup Co. Board of Commissioners
100 Ridley Ave.,LaGrange, GA 30240
CONTACT: James Anderson
706-645-5885

ENGINEER / SURVEYOR:
HARRIS GRAY LLC
824 3RD AVENUE
WEST POINT, GA 31833
706-645-5885
CONTACT: SCOTT HARRIS, P.E.

24 HOUR LOCAL CONTACT:
James Anderson @ 706-298-3792
janderson@troupco.org

72 HRS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING.

CONTACT 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER www.Georgia811.com



10 VICINITY MAP N.T.S

LAND LOT 160 & 181 - 4th LAND DISTRICT
TROUP COUNTY, GEORGIA
7 ADDRESS: ? BURKES CHAPEL RD.
GPS COORDINATES
LATITUDE N 32.9167°
LONGITUDE W 85.0187°
SITE ADDRESS: ? BURKES CHAPEL RD.
6 TOTAL SITE ACREAGE: 2.243 Ac.
AREA OF DISTURBANCE: 2.0 Ac.
ZONING: AGR

SHEET INDEX	
Sheet Number	Sheet Title
01	COVER
02	GSWCC CHECKLIST & INFO
03	CONSTRUCTION NOTES
04	EXISTING CONDITIONS
05	SITE PLAN
06	GRADING & DRAINAGE PLAN
07	STORM PROFILES & DETAILS
08	STORM DETAILS
09	UTILITY PLAN
10	E.S.& P.C. NOTES
11	E.S.& P.C. NOTES
12	E.S.& P.C. PLAN INITIAL PHASE
13	E.S.& P.C. PLAN INTERMEDIATE PHASE
14	E.S.& P.C. PLAN FINAL PHASE
15	GSWCC DETAILS
16	GSWCC DETAILS
17	CONSTRUCTION DETAILS
18	CONSTRUCTION DETAILS
19	CONSTRUCTION DETAILS

ANTICIPATED CONSTRUCTION SCHEDULE

29

ACTIVITY	2026 MO. 1				MO. 2				MO. 3				MO. 4				MO. 5			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
EROSION CONTROL / BMP INSTALLATION																				
EROSION CONTROL / BMP MAINTENANCE*																				
CLEARING & GRUBBING																				
GRADING																				
STORM DRAINAGE																				
UTILITIES (WATER, SEWER, ETC.)																				
PARKING SUBBASE																				
BUILDING																				
FINAL PAVING																				
LANDSCAPING & GRASSING																				

1. MAINTENANCE OF EROSION AND SEDIMENT CONTROL WILL BE MONITORED DAILY AND INSPECTED WEEKLY THROUGHOUT PROJECT.
2. NOTIFY INSPECTOR 24 HOURS BEFORE BEGINNING EVERY PHASE OF CONSTRUCTION.
3. CONTRACTOR IS TO REMOVE ALL TEMPORARY SEDIMENT CONTROL AFTER FINAL STABILIZATION OF SITE.

HARRIS GRAY, LLC
ENGINEERS◦ SURVEYORS◦ PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEF006540
824 THIRD AVENUE◦ WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

GEORGIA REGISTERED No. PE35488 PROFESSIONAL 8-17-26 ENGINEER JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS GAR100001

1

Project Name: Troup Co. Fire Station @ Burkes Chapel Rd. **Address:** (TBD)
City/County: Troup County **Date on Plans:** 8-17-26
Name & email of person filling out checklist: Scott Harris, PE sharris@harris-gray.com

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
2	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. **Permit IV.D.1. pg 27**
ALL	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, after completion of a GSWCC approved course, and whose signature and seal are on the Plan.
	N/A	3	Limits of disturbance shall be less than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include the GAEPD approval letter and completed Appendix 1 of this checklist with at least 4 of the chosen BMPs. * A copy of the written approval by GAEPD must be attached to the Plan for the Plan to be reviewed. **Permit IV.D.3. pg 28**
1	Y	4	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
1	Y	5	Provide the name, address, email address, and phone number of Primary Permittee.
1	Y	6	Note total and disturbed acreages of the project or phase under construction.
1	Y	7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
1	Y	8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
10-11	Y	9	Descriptions of the nature of construction activity and existing site conditions.
1	Y	10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
10-11	Y	11	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
1	Y	12	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 20** of the permit.
1	Y	13	Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 20** of the permit. *
1	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
12-14	Y	15	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
12-14	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
12-14	Y	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
12-14	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
12-14	Y	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
12-14	Y	20	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
12-14	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
10	Y	22	Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with **Part III.C.** of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
10	Y	23	If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
10-11	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *
10-11	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
10-11	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
10-11	Y	27	Description of practices to provide cover for building materials and building products on site. *
10-11	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
1	Y	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization).
10-11	Y	30	Provide complete requirements of Inspections and record keeping by the Primary Permittee. *
10-11	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
10-11	Y	32	Provide complete details for Retention of Records as per **Part IV.F.** of the permit. *
10-11	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
2	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
12-14	Y	35	Delineate all sampling locations on all phases of the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *
10-11	Y	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase plan. *
12-14	Y	37	Graphic scale and North arrow.
12-14	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2, 5 or 10

	N/A	39	Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
	N/A	40	Use of Alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
12-14	Y	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
12-14	Y	42	Delineation of all State Waters and wetlands located on or within 200 feet of the project site.
Hydro	Y	43	Delineation and acreage of contributing drainage basins on the project site.
Hydro	Y	44	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
6	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. **For solar farm projects, post-construction impervious area shall be calculated as 70% of total solar panel square footage.**
7	Y	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.
2	Y	47	Soil series for the project site and their delineation.
12-14	Y	48	The limits of disturbance for each phase of construction.
12-14	Y	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
15-16	Y	50	Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.
15-16	Y	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
15-16	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*** If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.**

Effective January 1, 2026

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RUSLE2 Related Attributes–Coweta, Heard, and Troup Counties, Georgia

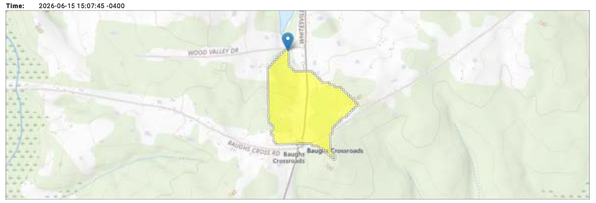
Map symbol and soil name	Pct. of map unit	Slope length (ft)	Hydrologic group	Kf	T factor	Representative value		
						% Sand	% Silt	% Clay
CeD—Cecil sandy loam, 10 to 15 percent slopes								
Cecil	100	89	B	.20	5	67.9	19.6	12.5
CfC2—Cecil sandy clay loam, 6 to 10 percent slopes, eroded								
Cecil	100	98	B	.15	5	55.1	17.4	27.5
MfC2—Madison gravelly sandy clay loam, 6 to 10 percent slopes, eroded								
Madison	100	98	B	.28	5	63.5	26.5	10.0

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Data Source Information

StreamStats Report

Region ID: GA
Clicked Point (Latitude, Longitude): 32.91978, -85.02078
Time: 2026-06-15 15:07:45 -0400



StreamStats Update

Starting with version 4.30.0, the StreamStats application uses services that were redeveloped with open-source software components. Users may observe minor variations in computed results when compared to those from previous versions. These differences are expected and do not reflect errors in the underlying data or analytical methods. Users are advised to consider these potential variations when interpreting or comparing results generated across different versions of StreamStats. Please email streamstats@usgs.gov with any questions or concerns. A full list of changes can be found at **https://www.usgs.gov/streamstats/news/streamstats-data-updates-open-source-code-release (https://www.usgs.gov/streamstats/news/streamstats-data-updates-open-source-code-release)**.

Collapse All

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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLDEM10M	Mean basin slope computed from 10 m DEM	6.5558	percent
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	244.91	feet per mi
DRNAREA	Area that drains to a point on a stream	0.04	square miles

Warm Water (Supporting Warm Water Fisheries)

Surface Water Drainage Area, square miles

Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01 +	50	50	50	50	50	100	200	100

National Flood Hazard Layer FIRMette

FEMA



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS: Without Base Flood Elevation (BFE) Zone A, V, A99; With BFE or Depth Zone AE, AO, AH, VE, AR; Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD: 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X; Future Conditions 1% Annual Chance Flood Hazard Zone X; Area with Reduced Flood Risk due to Levee. See Notes. Zone X; Area with Flood Risk due to Levee Zone D

OTHER AREAS: NO SCREEN Area of Minimal Flood Hazard Zone X; Effective LOMRs; Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES: Channel, Culvert, or Storm Sewer; Levee, Dike, or Floodwall

OTHER FEATURES: 20.2 Cross Sections with 1% Annual Chance; 17.5 Water Surface Elevation; Coastal Transect; Base Flood Elevation Line (BFE); Limit of Study; Jurisdiction Boundary; Coastal Transect Baseline; Profile Baseline; Hydrographic Feature

MAP PANELS: Digital Data Available; No Digital Data Available; Unmapped

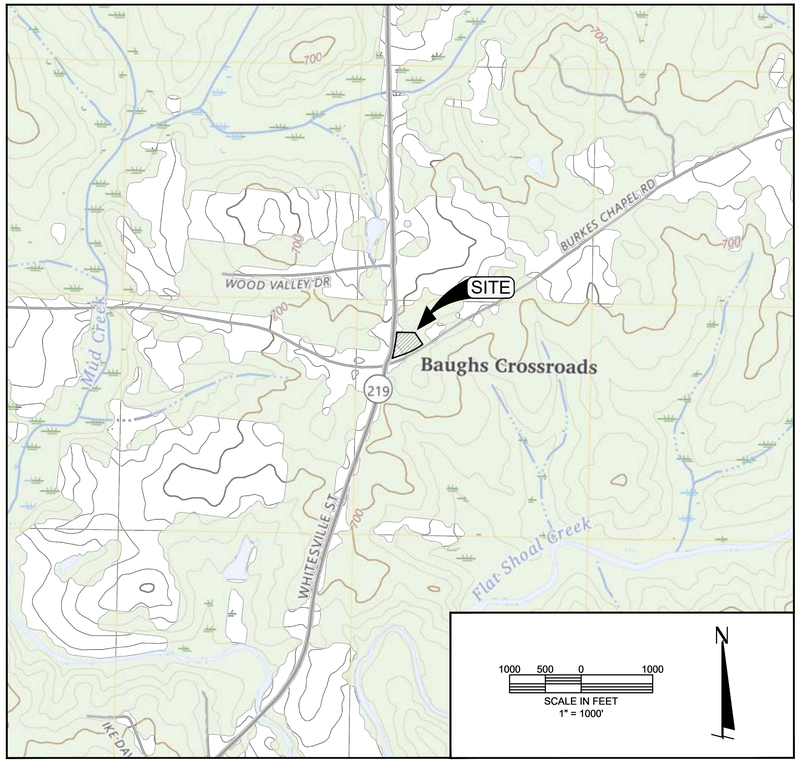
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/15/2026 at 7:12 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Basemap Imagery Source: USGS National Map 2023



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HG — Septic System & Conduits Revised — 08-17-26

HARRIS GRAY, LLC
ENGINEERS - SURVEYORS - PLANNERS
CERTIFICATE OF AUTHORIZATION NO.: PEF006540
824 THIRD AVENUE - WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
GSWCC CHECKLIST & INFO

DATE
DRAWN BY JAM
CHKD BY JSH
FILE NAME COVER.DWG
JOB NO. GA260144

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN SCOTT HARRIS No. PE006486 8-17-26

GSWCC LEVEL II # 4456
EXP. 03-27-2027

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SHT. 02 OF 19

GENERAL PROVISIONS

1. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN.
2. ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMAN LIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
3. DEVIATIONS FROM THE PLANS WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVES MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.
4. A PRE-CONSTRUCTION MEETING WILL BE REQUIRED. CONTRACTOR SHALL CONTACT TROUP COUNTY TO SCHEDULE A MEETING.
5. THE DRAWINGS AND TROUP COUNTY STANDARD FOR DESIGN AND CONSTRUCTION SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT READY FOR USE, AND ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED.
6. ALL MATERIALS SHALL BE NEW, UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER AND APPROPRIATE AUTHORITIES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER AND CITY APPROVAL PRIOR TO PROCUREMENT OF MATERIALS.
7. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY AND IS NOT OWNER GUARANTEED. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND RELATED EXPENSES.
9. THE CONTRACTOR IS TO CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE GEORGIA UTILITIES PROTECTION CENTER (1-800-282-7411) AND THE TROUP COUNTY FOR LOCATION OF EXISTING UNDERGROUND UTILITIES.
10. CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBING CURBING, PAVING, AND COMPACTED SUB-GRADE. ALL UNDERGROUND UTILITIES, INCLUDING THOSE INSTALLED BY OTHERS (ELECTRICAL CONDUIT, GAS, TELEPHONE, WATER, SANITARY, SEWER AND ANY OTHER MISCELLANEOUS) SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL IF POSSIBLE.
11. IF THE CONTRACTOR, IN THE COURSE OF WORK, FINDS ANY DISCREPANCY BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING, AND ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
12. IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IF HISTORICAL ARTIFACTS OR ENDANGERED SPECIES OF PLANTS ARE ENCOUNTERED DURING CONSTRUCTION.
13. A CONSTRUCTION TRAILER SHALL BE PERMITTED THROUGH THE TROUP COUNTY WHEN REQUIRED AND COORDINATED WITH THE OWNER IN ORDER TO NOT IMPEDE ANY CURRENT OPERATIONS.
14. THE CONTRACTOR SHALL PROVIDE SHEETING AND SHORING FOR ALL TRENCH CONSTRUCTION IN ACCORDANCE WITH O.S.H.A. GUIDELINES. THERE SHALL BE NO OPEN TRENCHES AT THE END OF THE DAY'S WORK.
15. CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION. IN TIMES OF RAIN OR MUD, ROADS SHALL BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE WITH A MINIMUM WIDTH OF 25 FEET. THIS ACCESS TO BUILDINGS THAT HAVE SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTOR. (NFPA 1141 3-1 AND GCFO-15)
16. CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A CONSTRUCTION SCHEDULE FOR THE WORK.

EARTHWORK/GRADING

1. EARTHWORK AND GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S SPECIFICATIONS AND RECOMMENDATIONS, OR WITH SECTIONS 201-221 OF GA DOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IF NOT COVERED BY THE GEOTECHNICAL ENGINEER'S SPECIFICATIONS, EXCEPT AS OTHERWISE NOTED.
2. MAXIMUM SLOPE FOR CUT OR FILL IS 2H: 1V. ANY SLOPES AT 2:1 OR STEEPER SHALL BE STABILIZED WITH APPROPRIATELY DESIGNED SLOPE MATTING.
3. THE FOLLOWING CLASSIFICATIONS WILL BE USED FOR DESCRIBING DIFFICULT EXCAVATION MATERIAL.
   A. TRENCH ROCK - ANY MATERIAL THAT CANNOT BE EXCAVATED WITH A TRACKED BACKHOE HAVING A BUCKET CURLING FORCE OF AT LEAST 30,000 POUNDS (CATERPILLAR 320 OR EQUIVALENT) AND OCCUPYING AN IN-PLACE VOLUME OF AT LEAST 0.5 CUBIC YARDS
   B. DIFFICULT EXCAVATION - ANY MATERIAL THAT CANNOT BE REMOVED BY NORMALLY USED GRADING EQUIPMENT, AND REQUIRES THE USE OF A SINGLE-TOOTH RIPPER ATTACHED TO A DOZER HAVING A DRAW BAR PULL OF AT LEAST 90,000 POUNDS (CATERPILLAR D-8 OR EQUIVALENT) AND OCCUPIES AN IN-PLACE VOLUME OF AT LEAST ONE CUBIC YARD.
   C. BLAST ROCK - ANY MATERIAL THAT CANNOT BE RIPPED WITH A SINGLE-TOOTHED RIPPER ATTACHED TO A DOZER HAVING A DRAW BAR PULL OF AT LEAST 90,000 POUNDS (CATERPILLAR D-8 OR EQUIVALENT) AND OCCUPIES AN IN-PLACE VOLUME OF AT LEAST ONE CUBIC YARD.
4. EXCESS EARTH CUT MATERIALS, UNSUITABLE MATERIALS OR ROCK, IF ANY, SHALL BE PLACED AT A LOCATION ON OR NEAR THE SITE AS DESIGNATED BY THE OWNER.
5. STRIP EXISTING TOPSOIL FROM AREAS THAT WILL BE EXCAVATED OR GRADED PRIOR TO COMMENCEMENT OF EXCAVATION OR GRADING AND PLACE IN WELL DRAINED STOCKPILES AT LOCATIONS APPROVED BY THE OWNER AND/OR ENGINEER.
6. BASE MATERIAL SHALL BE CLEANED, SHAPED AND INSPECTED BEFORE ASPHALT LAYER IS ADDED.
7. ELEVATIONS SHOWN ON THE PROFILES ARE CENTERLINE PAVEMENT ELEVATIONS, MEASURED TO THE TOP OF FINISHED PAVEMENT, UNLESS OTHERWISE NOTED.
8. ALL OFFSITE DISTURBED AREAS SHALL BE RESTORED TO PRECONSTRUCTION CONDITION OR BETTER.
9. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ALL WASTE MATERIALS CONSISTENT WITH REGULATIONS APPLICABLE TO THE MATERIALS.

STORMWATER

1. STORM SEWER PIPE SHALL BE CIRCULAR, REINFORCED CONCRETE OR ALL ALLOWABLE PIPE MATERIAL, WALL B, CLASS III PIPE OR APPROVED EQUAL WITH A MAXIMUM "n" VALUE OF 0.013.
2. END TREATMENT SHALL BE REINFORCED CONCRETE HEADWALLS, OR APPROVED EQUAL, SIZED TO MATCH THE STORM SEWER PIPE.
3. ALL DRAINAGE PIPE LENGTHS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS FOR CENTER-TO-CENTER OF THE RELATED STRUCTURES.
4. ALL PROPOSED DRAINAGE STRUCTURES SHALL CONFORM TO TROUP COUNTY OR GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD DETAILS UNLESS NOTED OTHERWISE.
5. ALL PIPES UNDER PAVEMENTS: TRENCHED BACKFILL SHALL BE MECHANICALLY TAMPED FOR THE ENTIRE DEPTH OF TRENCH TO 95% STANDARD PROCTER. THE UPPER 12" SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTER. REFER TO THE TROUP COUNTY STANDARD SPECIFICATIONS AS NECESSARY.

EROSION AND SEDIMENT CONTROL

1. SEE "EROSION SEDIMENT AND POLLUTION CONTROL PLAN," NOTES AND DETAILS SHEETS, FOR ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES.
2. CONSTRUCTION EXIT PADS SHALL BE INSTALLED BY THE CONTRACTOR AT EACH CONSTRUCTION ACCESS POINT.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
4. PROVISIONS TO PREVENT EROSION OF THE SOIL FROM THE SITE SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA," LATEST EDITION AND SHALL BE FOLLOWED AND INSTALLED IN A MATTER SO AS TO MINIMIZE EROSION OF THE DISTURBED AREAS AND PREVENT SEDIMENT FROM LEAVING THE SITE.
5. THE CONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES INTO THE PROJECT AT THE EARLIEST PRACTICABLE TIME DURING CONSTRUCTION. THE EROSION CONTROL MEASURES DETAILED HEREON SHALL BE CONTINUED UNTIL THE GRASS ON PLANTED SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT. THE SEDIMENT REMOVED FROM THE CONTROL STRUCTURES SHALL BE EVENLY DISTRIBUTED INSIDE CONSTRUCTION LIMITS. DISPOSED SEDIMENT SHALL BE PERMANENTLY GRASSED.
6. TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE INSTALLED PER THE "EROSION SEDIMENT AND POLLUTION CONTROL PLANS" FOR THIS PROJECT.
7. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ESTABLISHED, AS SHOWN ON THE "EROSION SEDIMENT AND POLLUTION CONTROL PLANS."

GEOTECHNICAL

1. SOILS TESTING AND ON-SITE INSPECTION MAY BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER SELECTED AND PAID BY THE OWNER. IN THE EVENT OF CONFLICT BETWEEN THE INSTRUCTIONS BY THE ENGINEER AND RECOMMENDATIONS PROVIDED BY THE OWNER'S GEOTECHNICAL ENGINEER, THE CONTRACTOR WILL ADHERE TO THE MOST STRINGENT.
2. CONTRACTOR SHALL PROVIDE ANY EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
3. GEOTECHNICAL ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER, AND THE OWNER'S REPRESENTATIVE AND SHALL NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR PROMPTLY SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.
4. MOISTURE-DENSITY RELATIONSHIPS (STANDARD PROCTOR) SHALL BE DETERMINED FOR EACH SOIL TYPE ENCOUNTERED ONSITE TO PROVIDE DATA FOR QUALITY CONTROL. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE TEST RESULTS AND ADVISE ON THE SUITABILITY OF THE PROPOSED FILL MATERIAL. THE MOISTURE CONTENT AT THE TIME OF COMPACTION SHALL BE WITHIN 3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT.
4. SUITABLE FILL MATERIAL SHALL BE FREE OF ORGANICS, STONES GREATER THAN ONE INCH IN DIAMETER, OR OTHER DELETERIOUS MATERIAL AS DETERMINED BY THE GEOTECHNICAL ENGINEER. SOILS MIXED WITH BLAST ROCK SHALL GENERALLY NOT BE CONSIDERED SUITABLE.
5. ALL FILLS SHALL BE COMPLETED IN LIFTS NOT TO EXCEED EIGHT INCHES IN LOOSE THICKNESS. EACH LIFT SHALL BE COMPACTED UTILIZING APPROPRIATE MECHANICAL MEANS.
6. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698, AASHTO T-99:
   A. UNDER STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, COMPACT THE TOP 12 INCHES BELOW SUBGRADE AT 98 PERCENT MAXIMUM DRY DENSITY, AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT MAXIMUM DRY DENSITY.
   B. UNDER WALKWAYS, COMPACT THE TOP 6 INCHES BELOW THE SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT MAXIMUM DRY DENSITY.
   C. UNDER LAWN OR UNPAVED AREAS, COMPACT THE TOP 6 INCHES BELOW SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT MAXIMUM DENSITY.

WELLS (POTABLE WATER)

1. LICENSED PROFESSIONAL: THE WELL SHALL BE DRILLED AND INSTALLED BY A WATER WELL CONTRACTOR CURRENTLY LICENSED BY THE STATE OF GEORGIA.
2. NOTICE OF INTENT: THE DRILLER MUST SUBMIT A "NOTICE OF INTENT TO DRILL" TO THE COUNTY HEALTH DEPARTMENT BEFORE BEGINNING WORK.
3. WELL CASING: THE WELL CASING MUST EXTEND AT LEAST 12 INCHES ABOVE THE FINISHED GROUND GRADE (OR 24 INCHES IF IN A FLOOD-PRONE AREA).
4. SURFACE CURBING: A WATERTIGHT CONCRETE CURBING AT LEAST 4 INCHES THICK MUST EXTEND AT LEAST 2 FEET IN ALL DIRECTIONS FROM THE WELL CASING, SLOPED AWAY TO PREVENT SURFACE WATER PONDING.
5. GROUTING: THE ANNULAR SPACE BETWEEN THE BOREHOLE AND THE CASING SHALL BE FILLED WITH NEAT CEMENT OR SAND-CEMENT GROUT TO A MINIMUM DEPTH OF 10 FEET (OR DEEPER DEPENDING ON SOIL/ROCK CONDITIONS) TO PREVENT SURFACE CONTAMINATION.
6. SANITARY SEAL: THE TOP OF THE CASING SHALL BE PROTECTED BY A WEATHER-TIGHT, VERMIN-PROOF SANITARY SEAL.

SEPTIC SYSTEMS

1. GENERAL COMPLIANCE & PERMITS FOR SEPTIC SYSTEMS

   PERMIT REQUIREMENT: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF PUBLIC HEALTH (DPH) "MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS" AND THE SPECIFIC CONSTRUCTION PERMIT ISSUED BY THE TROUP COUNTY HEALTH DEPARTMENT.

   PRE-CONSTRUCTION: THE CONTRACTOR SHALL NOTIFY THE COUNTY HEALTH DEPARTMENT AT LEAST 24 HOURS PRIOR TO BEGINNING INSTALLATION.

   PLAN DISCREPANCIES: IF SITE CONDITIONS (E.G., HIGH GROUNDWATER, UNEXPECTED ROCK, OR SOIL CHANGES) DIFFER FROM THE APPROVED SOIL REPORT, WORK MUST STOP IMMEDIATELY AND THE DESIGN ENGINEER AND HEALTH DEPARTMENT MUST BE NOTIFIED.

2. SITE PROTECTION & GRADING

   PROTECTION OF ABSORPTION AREA: NO HEAVY EQUIPMENT, VEHICULAR TRAFFIC, OR MATERIAL STORAGE IS PERMITTED OVER THE PRIMARY OR REPLACEMENT DRAIN FIELD AREAS.

   SURFACE DRAINAGE: FINISHED GRADE SHALL BE SLOPED TO DIVERT SURFACE WATER RUNOFF AWAY FROM THE SEPTIC TANK AND ABSORPTION FIELD. NO ROOF DRAINS, FOUNDATION DRAINS, OR AREA DRAINS SHALL DISCHARGE INTO OR ONTO THE SEPTIC SYSTEM AREA.

   EROSION CONTROL: SILT FENCING MUST BE INSTALLED DOWNSLOPE OF THE SYSTEM AREA TO PREVENT SEDIMENT LOADING DURING CONSTRUCTION.

3. TANK & PIPING SPECIFICATIONS

   TANK STANDARDS: SEPTIC TANKS MUST BE PRECAST CONCRETE OR APPROVED PLASTIC, WATERTIGHT, AND LISTED ON THE GEORGIA DPH APPROVED PRODUCTS LIST.

   INLET/OUTLET ELEVATIONS: INSTALL TANK ON A LEVEL, 4-INCH COMPACTED STONE OR SAND BEDDING. INLET AND OUTLET ELEVATIONS MUST MATCH THE PROFILES SHOWN ON THE ENGINEERING PLANS.

   PIPE MATERIAL: ALL PIPING FROM THE HOUSE TO THE TANK AND FROM THE TANK TO THE ABSORPTION FIELD SHALL BE A MINIMUM OF SCHEDULE 40 PVC OR EQUIVALENT APPROVED SDR-RATED PIPE.

   EFFLUENT FILTER: AN APPROVED EFFLUENT FILTER (E.G., POLYLOK OR ZABEL) MUST BE INSTALLED ON THE OUTLET TEE OF THE SEPTIC TANK AND MUST BE ACCESSIBLE FOR MAINTENANCE VIA A GRADE-LEVEL ACCESS RISER.

4. ABSORPTION FIELD (DRAIN FIELD) INSTALLATION

   TRENCH DEPTH: TRENCHES SHALL BE INSTALLED AT A UNIFORM DEPTH OF [X] INCHES AS SPECIFIED BY THE PERMIT. THE BOTTOM OF THE TRENCHES MUST BE LEVEL TO WITHIN 2 INCHES PER 100 FEET.

   SOIL MOISTURE: NO EXCAVATION SHALL TAKE PLACE WHEN SOIL MOISTURE IS HIGH ENOUGH TO CAUSE SMEARING OR COMPACTION OF THE TRENCH SIDEWALLS (THE "WIRE TEST" METHOD IS RECOMMENDED).

   SMEAR REMOVAL: IF SMEARING OCCURS DURING EXCAVATION, THE CONTRACTOR SHALL RAKE OR "SCARIFY" THE SIDEWALLS AND BOTTOM OF THE TRENCH TO RESTORE SOIL POROSITY BEFORE PLACING MEDIA.

5. INSPECTIONS & CLOSEOUT

   OPEN TRENCH INSPECTION: NO PART OF THE SYSTEM SHALL BE COVERED (BACKFILLED) UNTIL IT HAS BEEN INSPECTED AND APPROVED BY THE COUNTY ENVIRONMENTAL HEALTH SPECIALIST.

   AS-BUILT SURVEY: UPON COMPLETION, AN "AS-BUILT" DRAWING SHOWING THE EXACT LOCATION OF THE TANK, LIDS, AND ALL DRAIN FIELD LINES MUST BE SUBMITTED TO THE OWNER AND THE HEALTH DEPARTMENT.

REPLACEMENT AREA

GEORGIA LAW REQUIRES A DESIGNATED AREA ON THE LOT FOR A 100% REPLACEMENT FIELD IN CASE THE ORIGINAL FAILS. THIS AREA MUST BE PROTECTED WITH THE SAME LEVEL OF CARE (NO PAVING, NO HEAVY EQUIPMENT) AS THE PRIMARY SYSTEM.

DAMS AND EMBANKMENTS

1. ALL DAM AND EMBANKMENT CONSTRUCTION SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER.
2. IN AREAS WHERE DAMS OR EMBANKMENTS ARE PROPOSED THE SITE SHALL BE STRIPPED OF ALL EXISTING TOPSOIL, VEGETATION, AND ROOTS.
3. WHERE POSSIBLE, CLEARING AND GRUBBING SHALL EXTEND 50 FEET BEYOND THE DOWNSTREAM TOE OF THE PROPOSED EMBANKMENT TO ALLOW FOR ACCESS AND CLEARANCE FOR FUTURE INSPECTIONS.
4. AT THE COMPLETION OF CLEARING AND GRUBBING ACTIVITIES, THE FOOTPRINT OF THE PROPOSED EMBANKMENT SHALL BE PROOF-ROLLED USING A FULLY LOADED TRI-AXLE DUMP TRUCK, 20 TON ROLLER, OR OTHER SIMILAR EQUIPMENT.
5. ANY AREAS WHICH PUMP OR RUT EXCESSIVELY AND CANNOT BE DENSIFIED BY CONTINUED ROLLING, SHOULD BE UNDERCUT AND REPLACED WITH STRUCTURAL FILL TO AT LEAST 10 FEET OUTSIDE OF THE EMBANKMENT FOOTPRINT.
6. SURFACE WATER CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY MEASURES TO KEEP SURFACE WATER AWAY FROM CONSTRUCTION EXCAVATIONS AND FILLS.
7. SHOULD DE-WATERING ACTIVITIES BE REQUIRED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO PREPARE AND SUBMIT A SURFACE WATER AND GROUNDWATER CONTROL PLAN TO THE GEOTECHNICAL ENGINEER. THIS PLAN MUST BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF DE-WATERING ACTIVITIES.
8. CONTRACTOR SHALL INSTALL TOE DRAINS ALONG ANY EMBANKMENTS AND DAMS IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
9. TOE DRAIN OUTLETS SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO ALLOW FOR THE MEASUREMENT OF SEEPAGE FLOWS THROUGH THESE DRAINS.
10. EMBANKMENTS SHALL BE CONSTRUCTED WITH A SLOPE OF 3:1 OR FLATTER, UNLESS NOTED OTHERWISE.
11. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER ON THE PLACEMENT AND OR MIXING OF ALL PROPOSED FILL MATERIALS.
12. IN GENERAL, STRUCTURAL FILLS SHALL HAVE A LIQUID LIMIT LESS THAN 50, PLASTIC INDEX LESS THAN 30 AND A STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) GREATER THAN 90 PCF.
13. STRUCTURAL FILLS SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698).
14. STRUCTURAL FILLS SHALL BE PLACED IN A MAXIMUM OF 8 INCH THICK LOOSE HORIZONTAL LIFTS AND COMPACTED TO THE SPECIFIED COMPACTION.
15. STRUCTURAL FILL LIFTS SHALL NOT BE LEFT IN A SMOOTH CONDITION PRIOR TO THE PLACEMENT OF THE SUBSEQUENT LIFT. ANY SMOOTH SURFACE LIFTS SHALL BE LIGHTLY SCARIFIED PRIOR TO THE PLACEMEN OF THE NEXT LIFT.
16. SHOULD AN EXPOSED FILL SURFACE BECOME EXCESSIVELY WET OR DRY DURING BREAKS IN GRADING ACTIVITIES, THE CONTRACTOR SHALL, AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER, EITHER REMOVE THESE MATERIALS OR SCARIFY THE MATERIALS AND RE-COMPACT THEM IN PLACE PRIOR TO THE PLACEMENT OF SUBSEQUENT LIFTS.
17. THE AMOUNT AND LOCATION OF REQUIRED DENSITY TESTS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.

EARTHWORK QUANTITIES & DIGITAL FILE DISCLAIMER

EARTHWORK QUANTITIES SHOWN ON THE PLANS OR OTHERWISE PROVIDED BY THE ENGINEER, IF ANY, ARE APPROXIMATE AND ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR FOR BIDDING AND CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INDEPENDENTLY VERIFYING ALL EARTHWORK QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION AND FOR DETERMINING THE FINAL CUT AND FILL QUANTITIES REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR EVALUATING SITE CONDITIONS AND FOR DETERMINING APPROPRIATE SHRINKAGE, SWELL, COMPACTION, AND OTHER SOIL FACTORS AFFECTING EARTHWORK OPERATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND OPERATIONS, INCLUDING BUT NOT LIMITED TO EXCAVATION, EMBANKMENT, HAUL DISTANCES, STOCKPILING, AND DISPOSAL OR IMPORT OF MATERIALS NECESSARY TO COMPLETE THE WORK.

DIGITAL GRADING FILES AND/OR DESIGN FILES PROVIDED BY THE ENGINEER ARE FURNISHED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR TO ASSIST WITH PREPARATION OF MACHINE CONTROL MODELS, QUANTITY CALCULATIONS, OR OTHER CONSTRUCTION-RELATED PURPOSES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING THE ACCURACY, COMPLETENESS, AND SUITABILITY OF ANY DIGITAL DATA PRIOR TO USE.

THE ENGINEER MAKES NO REPRESENTATIONS OR GUARANTEES REGARDING THE ACCURACY OR COMPLETENESS OF EARTHWORK QUANTITIES OR DIGITAL FILES AND ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY DIFFERENCES BETWEEN ESTIMATED AND ACTUAL QUANTITIES, FOR ERRORS OR OMISSIONS IN DIGITAL FILES, OR FOR ANY GRADING OR DRAINAGE CHANGES, TRANSLATION ERRORS, MODIFICATIONS, OR MISINTERPRETATIONS THAT MAY OCCUR DURING THE TRANSFER OR USE OF DIGITAL DATA. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S EARTHWORK QUANTITY CALCULATIONS, MACHINE CONTROL MODELS, INTERPRETATIONS OF THE PLANS, OR ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR OPERATIONS.

72 HRS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING.

CONTACT 811 BEFORE YOU DIG — 811 — SAFE DIGGING PARTNER — www.Georgia811.com

LEGEND AND ABBREVIATIONS

A	ARC
R	RADIUS
C	CHORD LENGTH
CH	CHORD BEARING
Δ	DELTA
R.O.W	RIGHT OF WAY
PVT	POINT OF VERTICAL TANGENT
PVI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVE
@	AT
O.C.	ON CENTER
ELE.	ELEVATION
L	LENGTH
S	SLOPE
Ø	DIAMETER
TYP.	TYPICAL
LF	LINEAR FOOT
°	DEGREE
STA.	STATION
INV. IN	INVERT IN
INV. OUT	INVERT OUT
S.L.	SERVICE LATERAL
DW-INLET	DOUBLE-WING INLET
SW-INLET	SINGLE-WING INLET
MH	MANHOLE
EP	EDGE OF PAVEMENT
BC	BACK OF CURB
FC	FACE OF CURB
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE
HP	HIGH PERFORMANCE POLYPROPYLENE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
	PROPERTY BOUNDARY LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	EASEMENT
	SETBACK LINE
	CENTERLINE
	EXISTING FENCE LINE
	PROPOSED FENCE LINE
	EXISTING TREE LINE
	PROPOSED TREE LINE
	EXISTING WETLANDS
BM	BORING LOCATIONS
BM	BENCHMARK
76	EXISTING CONTOUR
76	PROPOSED CONTOUR
	FLOW ARROW
	WATER LINE TEE
	WATER VALVE (TYPE) GV = GATE VALVE BV = BUTTERFLY VALVE PV = PLUG VALVE CV = CHECK VALVE
	WATER LINE BLOW OFF VALVE
	WATER LINE CAP
6"X2"	WATER LINE REDUCER
45°	WATER LINE BEND
	SINGLE WATER SERVICE
	DOUBLE WATER SERVICE
	EXISTING FIRE HYDRANT ASSEMBLY
	PROPOSED FIRE HYDRANT ASSEMBLY
WAT	EXISTING POTABLE WATER LINE
WAT	PROPOSED POTABLE WATER LINE
IRR	EXISTING IRRIGATION MAIN
IRR	PROPOSED IRRIGATION MAIN
FP	EXISTING FIRE PROTECTION MAIN
FP	PROPOSED FIRE PROTECTION MAIN
	STORM SEWER STRUCTURE NUMBER
	STORM SEWER JUNCTION BOX
	STORM SEWER FLARED END SECTION
	STORM SEWER YARD DRAIN
	SINGLE-WINGED INLET
	DOUBLE-WINGED INLET
	GRATE AND HOOD INLET
	AREA/GRATE INLETS
	EXISTING STORM DRAIN PIPE
	PROPOSED STORM DRAIN PIPE
	DIRECTION OF FLOW
	SANITARY SEWER MANHOLE
	SANITARY SEWER STRUCTURE NUMBER
	SINGLE SANITARY SEWER SERVICE
	DOUBLE SANITARY SEWER SERVICE
	EXISTING SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
FM	EXISTING SANITARY SEWER FORCEMAIN
FM	PROPOSED SANITARY SEWER FORCEMAIN
GAS	EXISTING GAS LINE
GAS	PROPOSED GAS LINE
UE	EXISTING UNDERGROUND ELECTRIC LINE
UE	PROPOSED UNDERGROUND ELECTRIC LINE
OE	EXISTING OVERHEAD ELECTRIC LINE
OE	PROPOSED OVERHEAD ELECTRIC LINE
T	EXISTING TELEPHONE LINE
T	PROPOSED TELEPHONE LINE
FO	EXISTING FIBEROPTIC LINE
FO	PROPOSED FIBEROPTIC LINE

HS			8
08-17-26	Septic System & Conduits Revised		

HARRIS GRAY, LLC
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO. : PEF006640
824 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
CONSTRUCTION NOTES

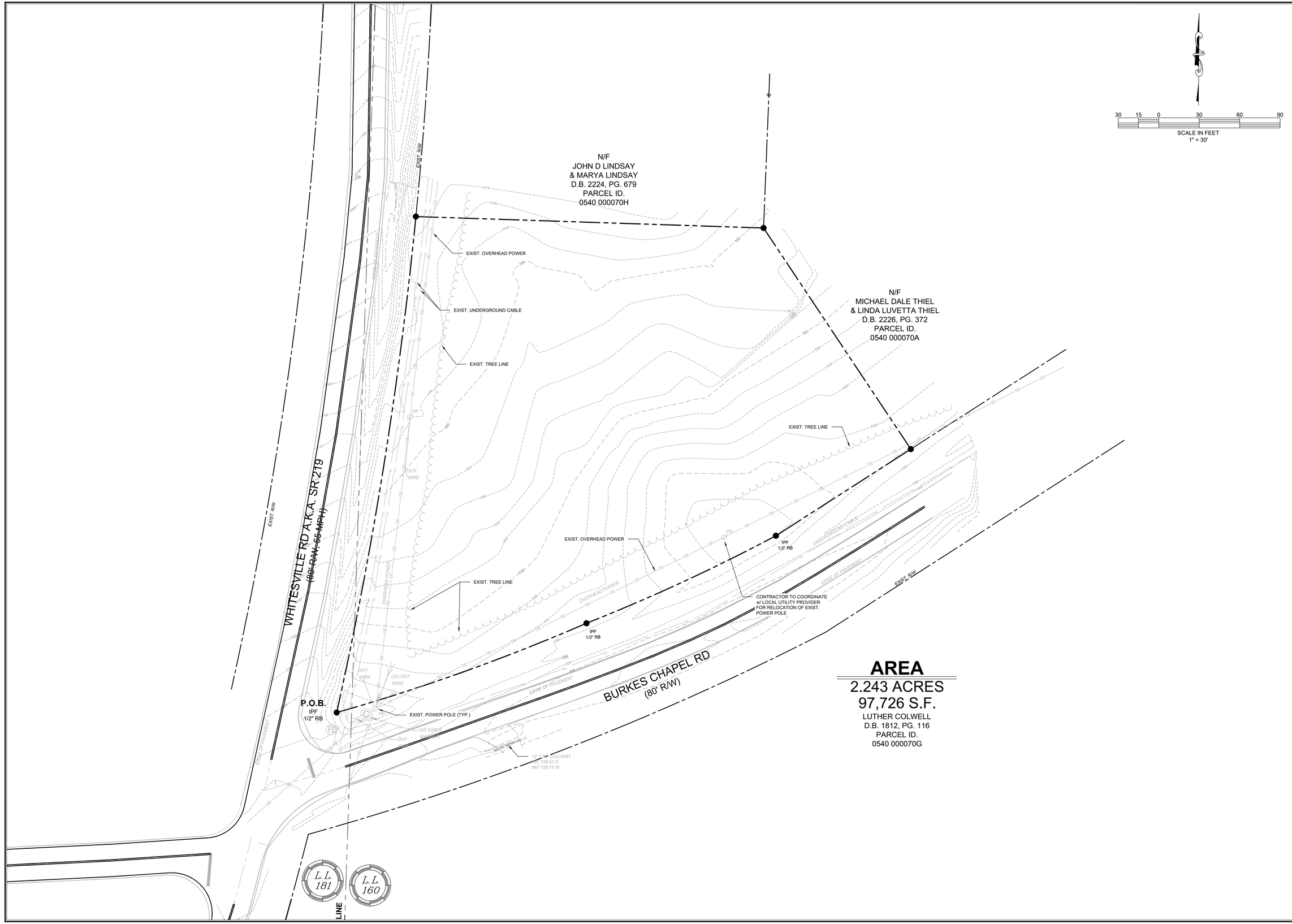
DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	NOTES.DWG
JOB NO.	GA260144

GEORGIA REGISTERED MCT-1838488 PROFESSIONAL 8-17-26 ENGINEER JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

SHT. 03 OF 19



08-17-26 Septic System & Conduits Revised

HARRIS GRAY, LLC
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEPG006540
824 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 0865

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.

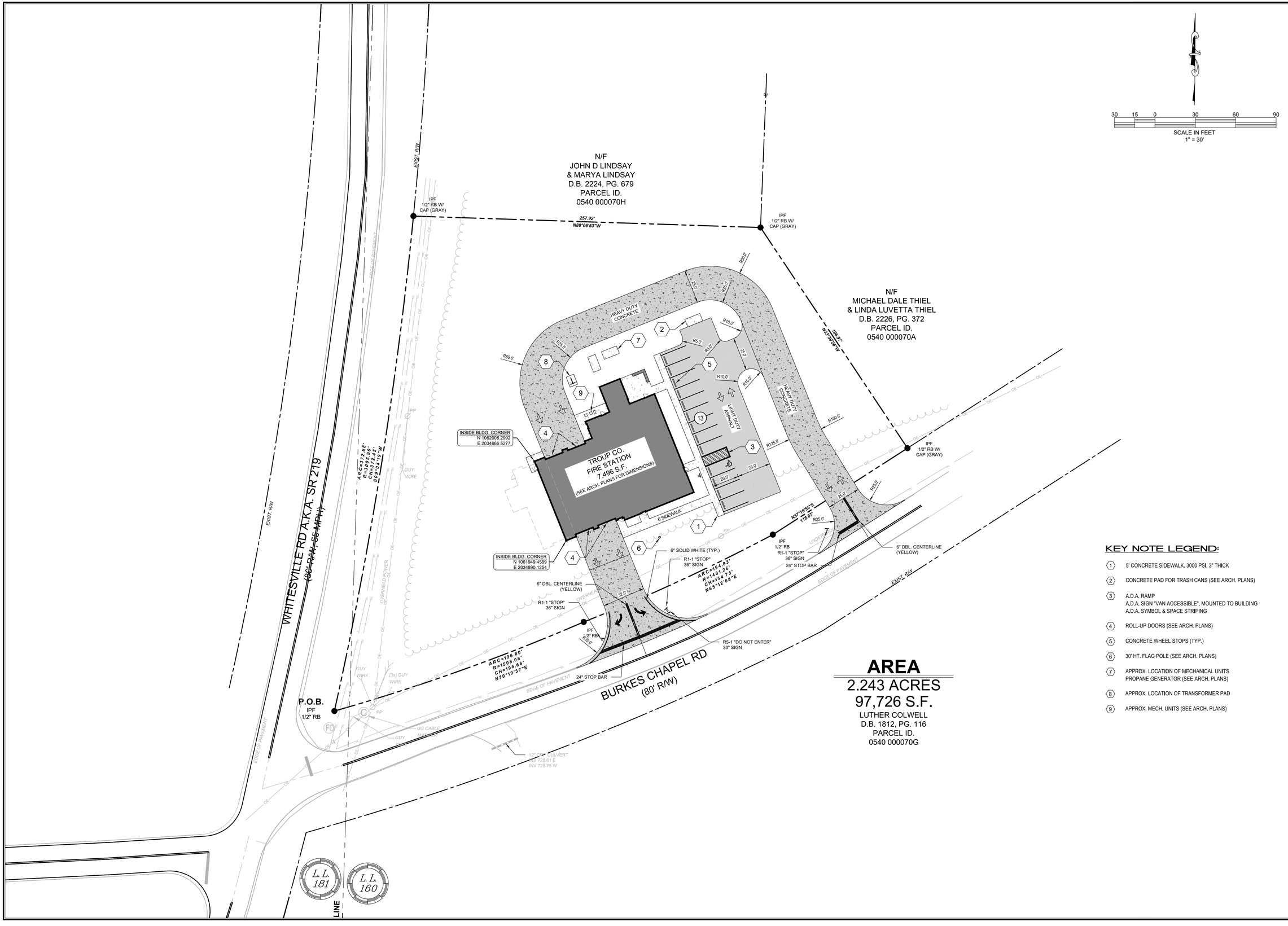
EXISTING CONDITIONS

DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	EXIST.DWG
JOB NO.	GA260144

GEORGIA REGISTERED
PROFESSIONAL ENGINEER
JOHN SCOTT HARRIS
No. PE025488
8-17-26

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2



30 15 0 30 60 90

SCALE IN FEET
1" = 30'

KEY NOTE LEGEND:

1. 5' CONCRETE SIDEWALK, 3000 PSI, 3" THICK
2. CONCRETE PAD FOR TRASH CANS (SEE ARCH. PLANS)
3. A.D.A. RAMP
   A.D.A. SIGN "VAN ACCESSIBLE", MOUNTED TO BUILDING
   A.D.A. SYMBOL & SPACE STRIPING
4. ROLL-UP DOORS (SEE ARCH. PLANS)
5. CONCRETE WHEEL STOPS (TYP.)
6. 30' HT. FLAG POLE (SEE ARCH. PLANS)
7. APPROX. LOCATION OF MECHANICAL UNITS
   PROPANE GENERATOR (SEE ARCH. PLANS)
8. APPROX. LOCATION OF TRANSFORMER PAD
9. APPROX. MECH. UNITS (SEE ARCH. PLANS)

AREA

2.243 ACRES
97,726 S.F.

LUTHER COLWELL
D.B. 1812, PG. 116
PARCEL ID.
0540 000070G

HG	8
08-17-26	Septic System & Conduits Revised

HARRIS GRAY, LLC
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEPG006540
824 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 0665

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
SITE PLAN

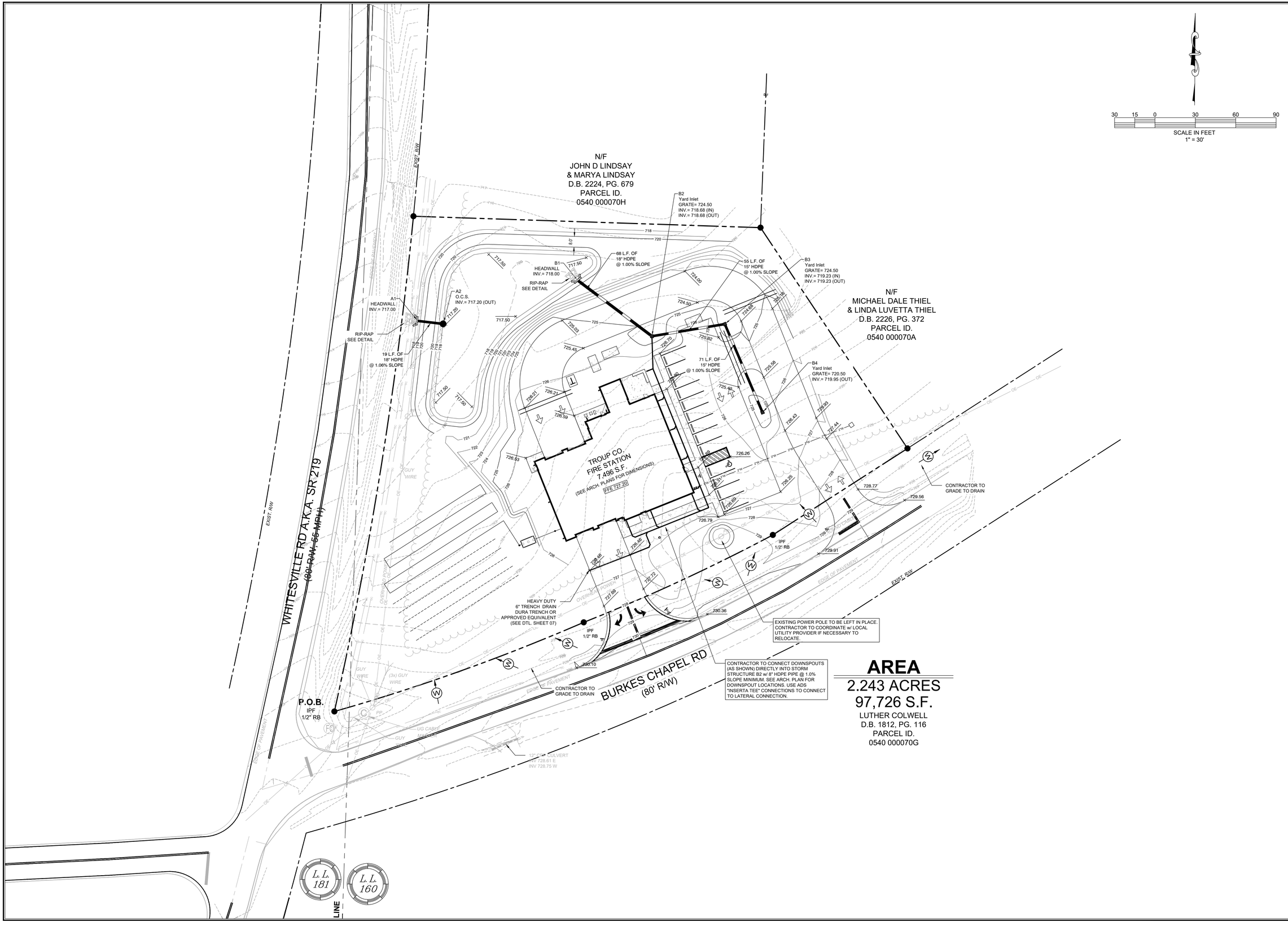
DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	SITE.DWG
JOB NO.	GA260144

GEORGIA REGISTERED
NO. PE35488
PROFESSIONAL
8-17-26
ENGINEER
JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

SHT. 05 OF 19



AREA

2.243 ACRES
97,726 S.F.

LUTHER COLWELL
D.B. 1812, PG. 116
PARCEL ID.
0540 000070G

HG	8
08-17-26	Septic System & Conduits Revised

HARRIS GRAY, LLC
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEF006540
824 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 0865

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
GRADING & DRAINAGE PLAN

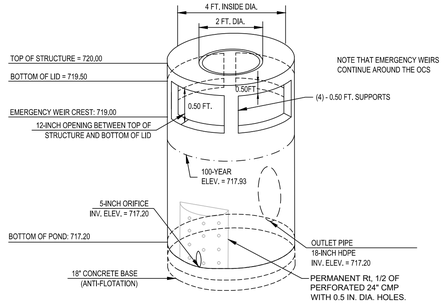
DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	GRADE.DWG
JOB NO.	GA260144

GEORGIA REGISTERED PROFESSIONAL ENGINEER
NO. PE035488
8-17-26
JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

SHT. 06 OF 19

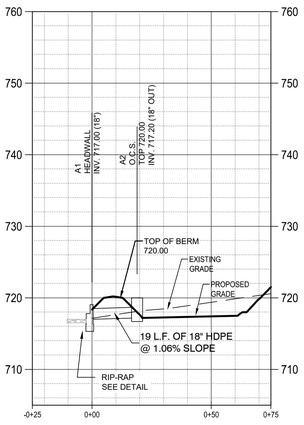


NOTES:

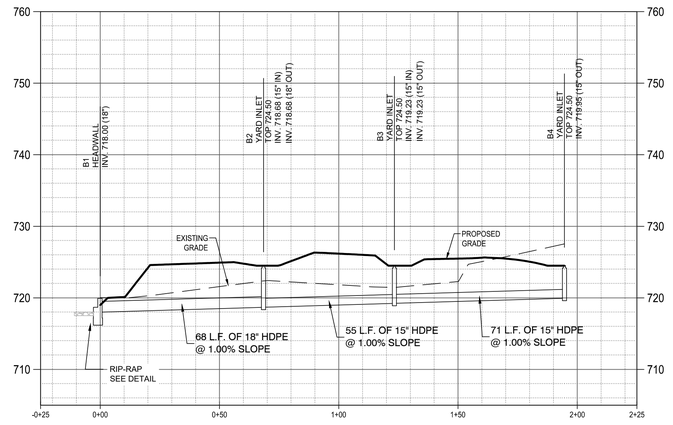
1. A PERMANENT TRASH RACK MUST BE INSTALLED OVER ALL ORIFICES.
2. DRAIN ORIFICE TO REMAIN PLUGGED DURING NORMAL OPERATING CONDITIONS. THE PLUG SHOULD ONLY BE REMOVED TO DRAIN THE POND FOR MAINTENANCE.
3. THE OUTFALL PIPE FROM THE OCS SHALL HAVE CONCRETE ANCHOR COLLARS. SEE STORM PLAN & PROFILE FOR COLLAR PLACEMENT.

OUTLET CONTROL STRUCTURE DETAIL

NOT TO SCALE



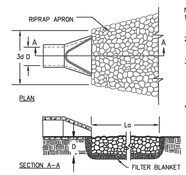
STORM LINE A
SCALES: 1"=30' HORIZ., 1"=10' VERT.



STORM LINE B
SCALES: 1"=30' HORIZ., 1"=10' VERT.

RIPRAP OUTLET PROTECTION

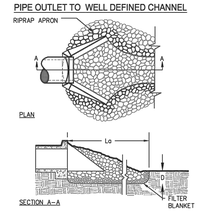
PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



NOTES:

1. Lo IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESSHAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL

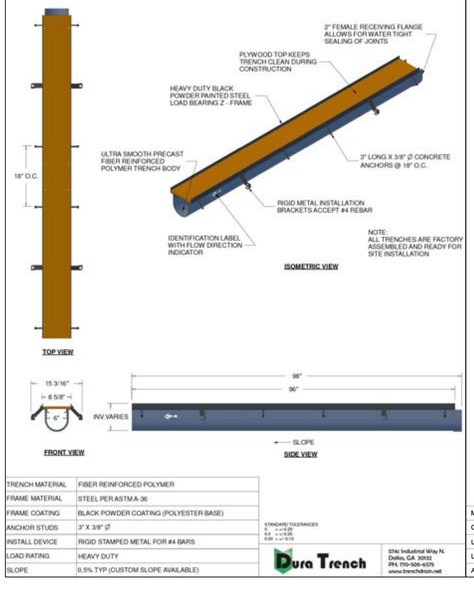


St

Figure 6-34.3 - Riprap Outlet Protection (Modified From Va SWCC)

GSWCC 2016 Edition 6-212

DTPF6-HDBP1SZ3A 6" PRECAST TRENCH DRAIN R1



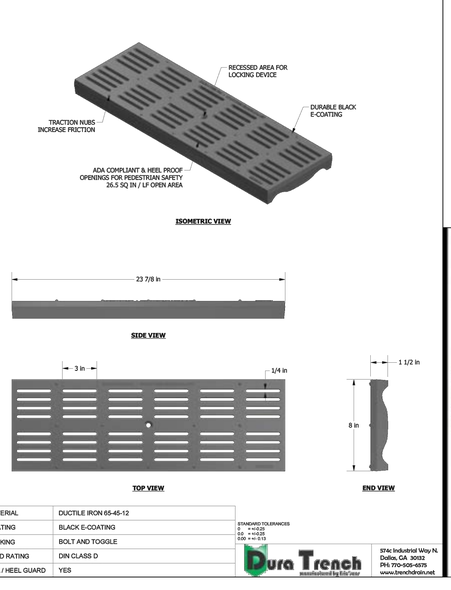
TRENCH MATERIAL	FIBER REINFORCED POLYMER
FRAME MATERIAL	STEEL PER ASTM A-36
FRAME COATING	BLACK POWDER COATING (POLYESTER BASE)
ANCHOR STUDS	3" X 3/8" Ø
INSTALL DEVICE	RIGID STAMPED METAL FOR #4 BARS
LOAD RATING	HEAVY DUTY
SLOPE	0.5% TYP (CUSTOM SLOPE AVAILABLE)

STANDARD TOLERANCES
0 = ±1.25
.00 = ±0.25
0.00 = ±1.0

Dura Trench

574c Industrial Way N.
Dallas, GA 30132
PH: 770-505-6375
www.trenchdrain.net

08C24DI 8" HEEL GUARD DUCTILE IRON GRATE R2



MATERIAL	DUCTILE IRON 65-45-12
COATING	BLACK E-COATING
LOCKING	BOLT AND TOGGLE
LOAD RATING	DIN CLASS D
ADA / HEEL GUARD	YES

STANDARD TOLERANCES
0 = ±1.25
.00 = ±0.25
0.00 = ±1.0

Dura Trench manufactured by Ride'nger

574c Industrial Way N.
Dallas, GA 30132
PH: 770-505-6375
www.trenchdrain.net

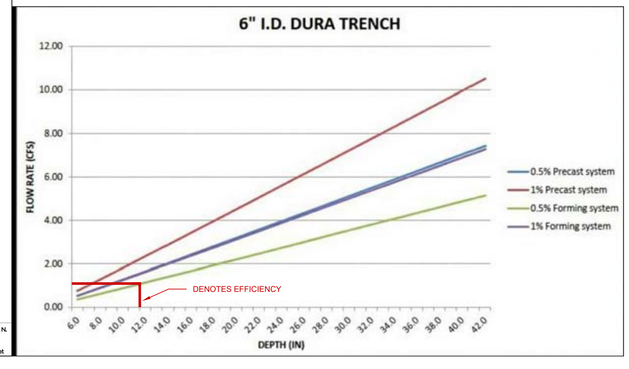
TRENCH CALCULATION

Q= C I A
0.95 x 8.17 x 0.034
Q= 0.27 cfs

C= Runoff Coefficient (0.95, all impervious), I= 100yr Rainfall Intensity (8.17)
A= 1,500 s.f. (1500 / 43560 = 0.0344 ac)

USE 6" TRENCH AT 0.5% SLOPE

STARTING DEPTH TO BE 12" DEEP.



[redacted]

HG

8

08-17-26 Septic System & Conduits Revised

HARRIS GRAY, LLC
ENGINEERS * SURVEYORS * PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEP006540
824 THIRD AVENUE * WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 3665

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
STORM PROFILES & DETAILS

DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	GRADE.DWG
JOB NO.	GA260144

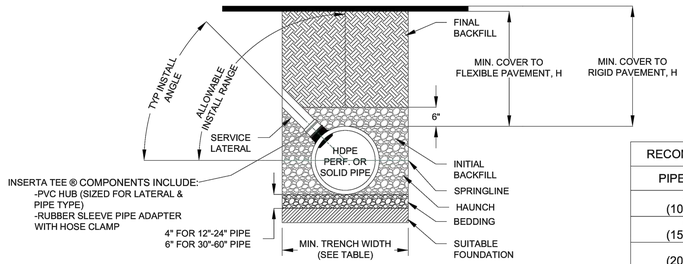
GEORGIA REGISTERED PE#25488 PROFESSIONAL 8-17-26 ENGINEER JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

SHT. 07 OF 19

INSERTA TEE® DETAIL (HDPE)



RECOMMENDED MINIMUM TRENCH WIDTHS	
PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
54" (1350mm)	88" (2235mm)
60" (1500mm)	96" (2438mm)

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. THE INSERTA TEE CONNECTION CAN BE INSTALLED UP TO A VERTICAL ORIENTATION, BUT A 45° INSTALL ANGLE IS MOST COMMON. GREATER ANGLES ARE SUBJECT TO DESIGN ENGINEER APPROVAL AND MAY REQUIRE PREMIUM BACKFILL.

4. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

5. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).

6. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

7. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

NOTE: FOR INSTALLATION INSTRUCTIONS, REFER TO DETAIL STD-1100. FOR PROTRUSION INFORMATION, REFER TO DETAIL STD-1101. FOR HOLE SAW INFORMATION, REFER TO DETAIL STD-1102.

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

INSERTA TEE DETAIL (HDPE)

DRAWING NUMBER STD-1011

4640 TRUEMAN BLVD
HILLIARD, OH 43026

DRAWN BY: HAK
DATE: 07/19/23
DATE'S BY: ENG
SCALE: NTS
SHEET: 1

Inserta Tee® Hole Saw Detail



Use of Inserta Tee Hole Saw is required for installation of Inserta Tee fittings. Silver and Gold hole saws are wet diamond bit. Reference detail STD 1100 for installation instructions.

- Heavy Duty ½" drill motor recommended for coring into plastic mainlines.
- Heavy Duty ½" drill motor recommended when using silver hole saws (4"-8") into non-plastic mainlines.
- Heavy Duty ½" drill motor recommended when using gold hole saws (4"-10") into non-plastic mainlines.

Hole Saws for Coring machines are equipped with 1 ¼" x 7 (tread) female adapter nut.

Common Hole Saws												
Hole Saw Series	Mainline Pipe Type	Lateral Size	2" (50mm)	3" (75mm)	4" (100mm)	6" (150mm)	8" (200mm)	10" (250mm)	12" (300mm)	15" (375mm)	18" (450mm)	24" (600mm)
Red	Plastic	Hole Saw Size	-	-	4 ½" (114mm)	6 ½" (165mm)	8 ¾" (222mm)	-	-	-	-	-
		Hole Saw Depth	-	-	4 ½" (114mm)	4 ½" (114mm)	4 ½" (114mm)	-	-	-	-	-
		Pilot Drill	-	-	12mm	12mm	12mm	-	-	-	-	-
Blue	Plastic	Hole Saw Size	2 ⅝" (67mm)	3 ¾" (95mm)	4 ½" (114mm)	6 ½" (165mm)	8 ¾" (222mm)	10 ⅞" (276mm)	12 ⅞" (327mm)	15 $^{13}/_{16}$" (402mm)	19 $^{13}/_{16}$" (503mm)	25 $^{5}/_{16}$" (603mm)
		Hole Saw Depth	4 ½" (114mm)	6 ½" (165mm)	6 ½" (165mm)	6 ½" (165mm)	6 ½" (165mm)	7 ½" (191mm)	7 ½" (191mm)	7 ½" (191mm)	7 ½" (191mm)	10 ½" (267mm)
		Pilot Drill	12mm	12mm	12mm	12mm	12mm	¾"	¾"	¾"	¾"	¾"
Silver	Non-Plastic	Hole Saw Size	-	-	4 ½" (114mm)	6 ½" (165mm)	8 ¾" (222mm)	-	-	-	-	-
		Hole Saw Depth	-	-	6 ½" (165mm)	6 ½" (165mm)	6 ½" (165mm)	-	-	-	-	-
		Pilot Drill	-	-	10mm	10mm	10mm	-	-	-	-	-
Gold	Non-Plastic	Hole Saw Size	2 ⅝" (67mm)	3 ¾" (95mm)	4 ½" (114mm)	6 ½" (165mm)	8 ¾" (222mm)	10 ⅞" (276mm)	12 ⅞" (327mm)	15 $^{13}/_{16}$" (402mm)	19 $^{13}/_{16}$" (503mm)	25 $^{5}/_{16}$" (603mm)
		Hole Saw Depth	7" (178mm)	7" (178mm)	7" (178mm)	7" (178mm)	7" (178mm)	7" (178mm)	7" (178mm)	8 ½" (216mm)	9 ½" (242mm)	11 ½" (292mm)
		Pilot Drill	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Uncommon Hole Saws												
Orange	Air Testible Applications ADS HP Pipe	Hole Saw Size	-	-	4 ⅜" (111mm)	6 ⅜" (162mm)	8 ⅝" (219mm)	10 ¾" (273mm)	12 ¾" (324mm)	15 ¾" (400mm)	19 ¾" (484mm)	-
		Hole Saw Depth	4 ½" (114mm)	6 ½" (165mm)	6 ½" (165mm)	6 ½" (165mm)	6 ½" (165mm)	7 ½" (191mm)	7 ½" (191mm)	7 ½" (191mm)	7 ½" (191mm)	7 ½" (191mm)
		Pilot Drill	-	-	12mm	12mm	12mm	¾"	¾"	¾"	¾"	-
Grey	Solid Wall PE	Hole Saw Size	-	-	4 ½" (114mm)	6 ½" (165mm)	8 ¾" (222mm)	-	-	-	-	-
		Hole Saw Depth	-	-	6 ½" (165mm)	6 ½" (165mm)	6 ½" (165mm)	-	-	-	-	-
		Pilot Drill	-	-	¾"	¾"	¾"	-	-	-	-	-

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

INSERTA TEE HOLE SAW DETAIL

DRAWING NUMBER STD-1102

4640 TRUEMAN BLVD
HILLIARD, OH 43026

DRAWN BY: HAK
DATE: 6/21/24
DATE'S BY: ENG
SCALE: NTS
SHEET: 1

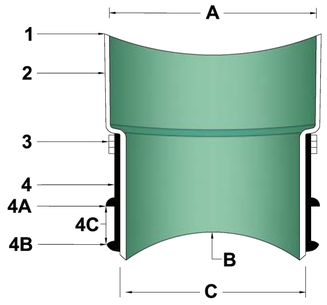
INSERTA TEE® FITTINGS
CORRUGATED BELL FOR GRAVITY APPLICATIONS

A. BELL END ACCEPTS CORRUGATED HDPE/PP DUAL WALL PIPE--ADS INC. SPECIFICATIONS IN 4", 6", 8", 10", 12", 15", 18" AND 24" SIZES.
B. CURVATURE VARIES WITH MAINLINE DIAMETERS.
C. SPIGOT END PVC SDR 35, ASTM D3034 DIAMETERS: 4", 6", 8", 10", 12", 15", 18" AND 24"

(CONSULT PIPE MANUFACTURER BEFORE USING THIS FOR SANITARY SEWER APPLICATIONS)

PART #	PART NAME
1	HUB ADAPTER
2	ADS VALLEY GASKET
3	SECURING CLAMP
4	RUBBER SLEEVE (AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER)
4A	UPPER SEGMENT**
4B	LOWER SEGMENT***
4C	REFER TO STD - 1103: WALL THICKNESS CHART

** DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE
*** WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE



MATERIALS
PVC SDR 35 ASTM
(4" AND 6" MADE FROM
PVC SDR 26 ASTM)
BAND SS #301
SCREW SS #305
ASTM F477

INSERTA TEE SIZE	HOLE DIAMETER
4" (100mm)	4 ½" (114mm)
6" (150mm)	6 ½" (165mm)
8" (200mm)	8 ¾" (222mm)
10" (250mm)	10 ⅞" (276mm)
12" (300mm)	12 ⅞" (327mm)
15" (375mm)	15 $^{13}/_{16}$" (402mm)
18" (450mm)	19 $^{3}/_{16}$" (503mm)
24" (600mm)	25 $^{5}/_{16}$" (643mm)

*ONLY AVAILABLE IN PVC

NOTE: FOR INSTALLATION INSTRUCTIONS, REFER TO DETAIL STD-1100. FOR PROTRUSION INFORMATION, REFER TO DETAIL STD-1101. FOR HOLE SAW INFORMATION, REFER TO DETAIL ST-1102.

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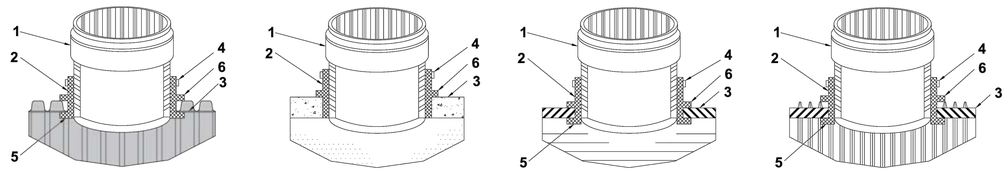
INSERTA TEE FITTINGS CORRUGATED BELL FOR GRAVITY APPLICATIONS

DRAWING NUMBER STD-1105

4640 TRUEMAN BLVD
HILLIARD, OH 43026

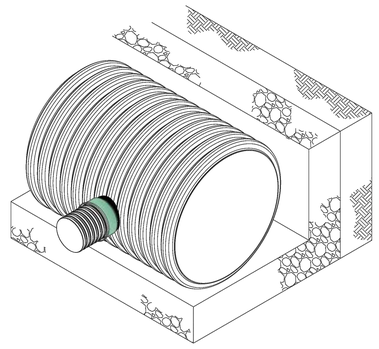
DRAWN BY: HAK
DATE: 02/21/23
DATE'S BY: ENG
SCALE: NTS
SHEET: 1

INSERTA TEE® CONNECTION DETAILS



ADS PIPE | CONCRETE OR CLAY | SOLID WALL | PROFILE WALL

PART #	DESCRIPTION
1	PVC hub adapter which is driven into the center of the rubber sleeve after the rubber sleeve is in the hole.
2	Complete rubber sleeve consisting of ASTM F 477 specifications.
3	Mainline pipe wall where branch line is connected.
4	Stainless steel band, put on above rubber segment as an added precaution.
5	Rubber segment which is molded into the rubber sleeve. This prevents snap out on the inside of the drilled hole (plastic pipe only) and helps hold the fitting in place, not creating the seal.
6	Rubber segment which is molded into the rubber sleeve. This prevents the rubber sleeve from going through the drilled hole when PVC hub is being driven into the rubber sleeve.



Note: Watertight seal is accomplished when PVC hub is driven into rubber sleeve causing the rubber sleeve to compress between pipe wall and PVC hub.

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INSERTA TEE CONNECTION DETAILS

DRAWING NUMBER STD-1123

4640 TRUEMAN BLVD
HILLIARD, OH 43026

DRAWN BY: HAK
DATE: 12/4/23
DATE'S BY: ENG
SCALE: NTS
SHEET: 1

HG

08-17-26	Septic System & Conduits Revised

8

HARRIS GRAY, LLC
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEP006640
824 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 3665

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
STORM DETAILS

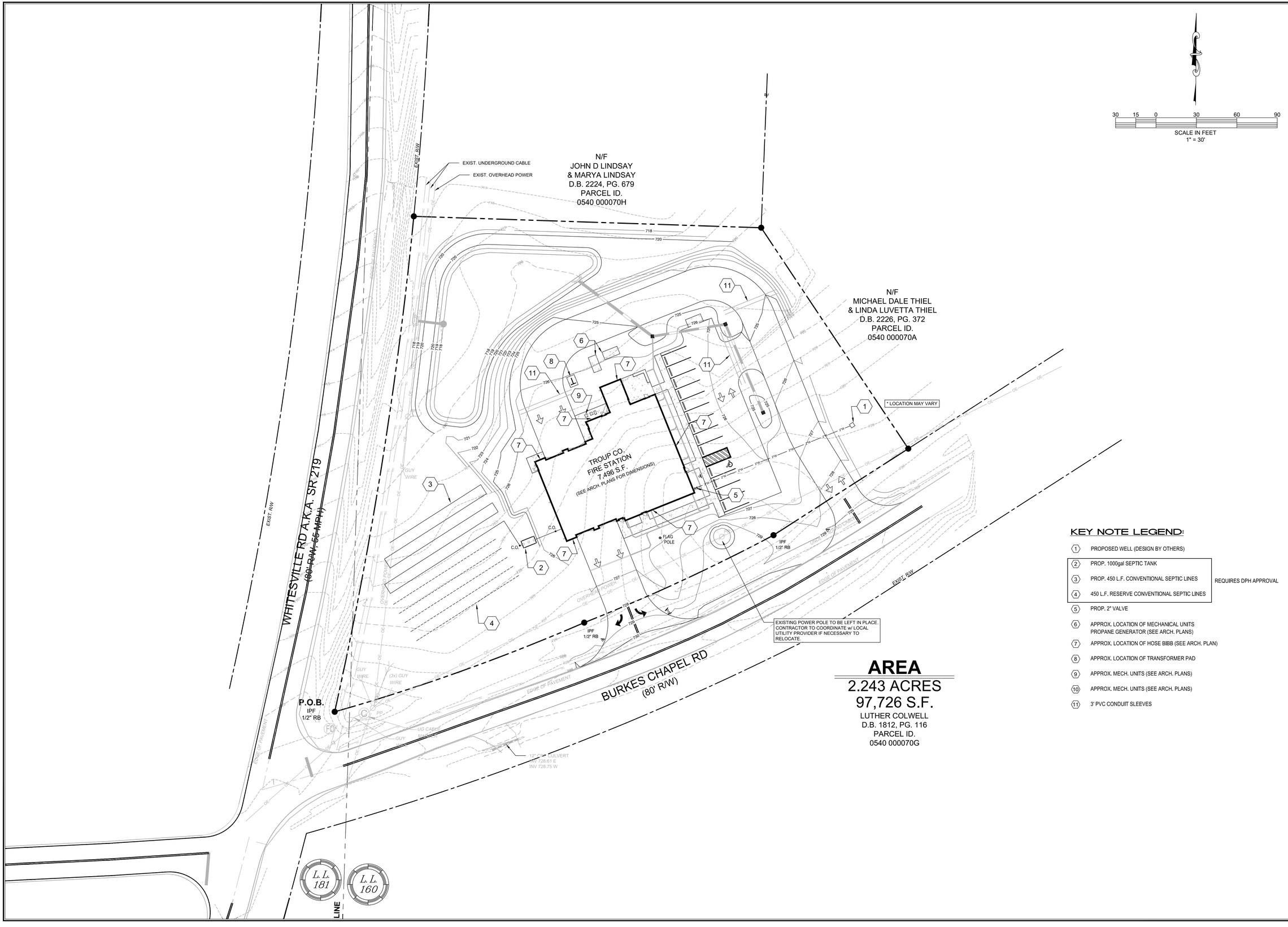
DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	GRADE.DWG
JOB NO.	GA260144

GEORGIA REGISTERED PE#25488 PROFESSIONAL 8-17-26 ENGINEER JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

SHT. 08 OF 19



AREA

2.243 ACRES
97,726 S.F.

LUTHER COLWELL
D.B. 1812, PG. 116
PARCEL ID.
0540 000070G

KEY NOTE LEGEND:

1. PROPOSED WELL (DESIGN BY OTHERS)
2. PROP. 1000gal SEPTIC TANK
3. PROP. 450 L.F. CONVENTIONAL SEPTIC LINES
4. 450 L.F. RESERVE CONVENTIONAL SEPTIC LINES

REQUIRES DPH APPROVAL

5. PROP. 2" VALVE
6. APPROX. LOCATION OF MECHANICAL UNITS PROPANE GENERATOR (SEE ARCH. PLANS)
7. APPROX. LOCATION OF HOSE BIBB (SEE ARCH. PLAN)
8. APPROX. LOCATION OF TRANSFORMER PAD
9. APPROX. MECH. UNITS (SEE ARCH. PLANS)
10. APPROX. MECH. UNITS (SEE ARCH. PLANS)
11. 3' PVC CONDUIT SLEEVES

HG	8
Septic System & Conduits Revised	
08-17-26	

HARRIS GRAY, LLC
ENGINEERS * SURVEYORS * PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEPO06540
824 THIRD AVENUE * WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 0865

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
UTILITY PLAN

DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	UTILITY.DWG
JOB NO.	GA260144

GEORGIA REGISTERED PROFESSIONAL ENGINEER
NO. PE025488
8-17-26
JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

SHT. 09 OF 19

THE NOTES AND REQUIREMENTS STATED ON THESE PLANS REFERENCE THE "STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION GENERAL PERMIT NO. GAR 100001" EFFECTIVE AUGUST 1, 2018. THIS PLAN DOES NOT CONTAIN ALL OF THE REQUIREMENTS CONTAINED WITHIN THE PERMIT. THE OWNER SHALL CONSULT THE PERMIT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SITE DESCRIPTION

9 1. THE EXISTING SITE HAS BUILDINGS, TRUCK DOCKS, PARKING, ASPHALT & GRAVEL TRUCK AREAS.

2. DESCRIPTION AND NATURE OF THE CONSTRUCTION ACTIVITY:
THE PROPOSED WILL ADD A 30,000 S.F. METAL BUILDING, A CONCRETE TRUCK DOCK, AND A GRAVEL TRUCK AREA.

3. THE PROPOSED BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE ACTIVITY SCHEDULE SHOWN AND THE SEQUENCES OF THE PHASED EROSION, SEDIMENT AND POLLUTION CONTROL PLANS PROVIDED.

11 4. TOTAL SITE AREA: 2.243 AC
DISTURBED AREA: 2.0 AC

5. RECEIVING WATERS: THE STORMWATER RUNOFF LEAVES THE SITE ON THE NORTHEAST INTO A STORM SYSTEM AND DISCHARGES INTO THE UN-NAMED TRIBUTARY OF MUD CREEK.

6. APPLICABLE PORTIONS OF THE ES&PC PLAN ARE TO BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY PERMITTEE CONDUCTING ANY CONSTRUCTION ACTIVITY. EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THE SITE.

7. PRIMARY PERMITTEE:
Troup Co. Board of Commissioners
100 Ridley Ave.
LaGrange, GA 30240
CONTACT: James Anderson 706-645-5885
24-HOUR CONTACT:
JAMES ANDERSON
706-298-3792 janderson@troupco.org

KNOWN SECONDARY PERMITTEES ARE AS FOLLOWS (FOR COMMON DEVELOPMENT ONLY):

NAME ADDRESS

(THIS PLAN SHALL BE UPDATED AS APPROPRIATE AS SECONDARY PERMITTEES ARE DETERMINED. IT IS THE RESPONSIBILITY OF THE OWNER TO NOTIFY THE DESIGN PROFESSIONAL AS SECONDARY PERMITTEES ARE DETEMINED.)

28 POLLUTION CONTROL NOTES:

A. CUT AND FILL
1. OPERATIONS SHALL BE KEPT TO A MINIMUM. PHASE IF POSSIBLE.
2. SHALL NOT ENDANGER ADJOINING PROPERTIES.
3. FILL SHALL NOT ENCROACH UPON NATURAL WATERCOURSES. CHANNELS SHALL NOT BE CONSTRUCTED IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.
4. MINIMIZING DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILL.

B. STATE WATER BANKS
1. ACTIVITIES SHALL NOT BE CONDUCTED WITHIN TWENTY-FIVE (25) FEET OF THE BANKS OF ANY STATE WATERS, AS MEASURED FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHEN APPROVED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS.
2. ACTIVITIES SHALL NOT BE CONDUCTED WITHIN FIFTY (50) HORIZONTAL FEET, AS MEASURED FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION FLOW, OF THE BANKS OF ANY STATE WATERS CLASSIFIED AS "TROUT STREAMS", UNLESS APPROVED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS.

C. STABILIZATION PRACTICES
1. VEHICLE AREAS - FILL IN RILL ERODED AREAS WHEN FOUND. MAINTAIN CONSTRUCTION EXITS AND CONSTRUCTION ROADS.
2. TEMPORARY SEEDING - WHEN AN AREA WILL BE LEFT OPEN MORE THAN 14 DAYS WITH NO CONSTRUCTION.
3. SOD STABILIZATION - USED IN HIGHER VELOCITY CHANNEL FLOWS.
4. PERMANENT VEGETATION - THIS IS TO BE ESTABLISHED ONCE FINAL GRADE IS ACHIEVED.
5. SURFACE ROUGHENING - TEXTURING OF SOIL SURFACES TO REDUCE SHEET FLOW AND IMPROVE SURFACE WATER IMPOUNDMENT.
6. SEDIMENT BASINS - SHALL BE INSPECTED TO INSURE STABLE SIDE SLOPES.

D. STRUCTURAL CONTROLS TO BE USED-SILT FENCE, INLET PROTECTION, CHECK DAMS, AND DETENTION PONDS.
E. DEVELOPMENT OF PLANS ARE TO CONFORM TO TOPOGRAPHY AND SOIL TYPE.
F. OTHER CONTROLS
1. OFF-SITE VEHICLE TRACKING
A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT AND SCRAPED REGULARLY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE CONSTRUCTION AREA. A SOURCE OF FRESH WATER FOR WASHING SEDIMENT FROM TRUCKS, ESPECIALLY DURING PERIODS OF WET WEATHER, MAY BE PROVIDED IN ORDER TO MINIMIZE THE AMOUNT OF STREET SWEEPING AND SCRAPING REQUIRED. ANY WASTEWATER RESULTING FROM THE OPERATION WILL BE DIRECTED INTO A SEDIMENT TRAP.
2. WASTE MATERIALS
ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE HAULED TO AN APPROVED LANDFILL. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON-SITE. ALL PERSONNEL WILL RECEIVE INSTRUCTIONS REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES DESCRIBING THESE PRACTICES WILL BE POSTED IN THE CONSTRUCTION OFFICE. THE SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. EMPLOYEE WASTE AND OTHER LOOSE MATERIALS WILL BE COLLECTED SO AS TO PREVENT THE RELEASE OF "FLOATABLES" DURING RUNOFF EVENTS. NO WASTE MATERIALS SHALL BE DUMPED INTO ANY ADJACENT STATE WATER, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
3. HAZARDOUS WASTE
NO HAZARDOUS WASTE IS EXPECTED TO BE GENERATED OR ENCOUNTERED IN THIS PROJECT. IN THE EVENT THAT HAZARDOUS WASTE IS ENCOUNTERED, ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. THE SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
4. SANITARY WASTE
THE ESPCP SHALL INCORPORATE AND ADHERE TO ALL COUNTY AND STATE WASTE DISPOSAL AND SANITARY SEWER SYSTEM REGULATIONS. ANY PORTABLE SANITARY UNITS SHALL BE LOCATED AWAY FROM STORM DRAIN INLETS. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR SHALL REGULARLY COLLECT ALL SANITARY WASTE FROM UNITS.
5. GRADING EQUIPMENT
GRADING EQUIPMENT SHALL CROSS-FLOWING STREAMS BY THE MEANS OF BRIDGES OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE, PROVIDED IN ANY CASE THAT SUCH CROSSINGS SHOULD BE KEPT TO A MINIMUM.
6. DUST CONTROL
DURING GRADING OPERATIONS (IF APPLICABLE), PERIODICALLY APPLY MOISTURE SPRAY TO LARGE AREAS FOR DUST CONTROL.

NPDES NOTES:

1. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO REQUEST SITE INSPECTION OF EROSION CONTROL PRACTICES BY THE ENGINEER WITHIN (7) SEVEN DAYS AFTER INSTALLATION.

25 2. ANY ON-SITE CHEMICALS OR PETROLEUM PRODUCTS ARE TO BE STORED IN AN ENVIRONMENTALLY SAFE CONTAINER TO AVOID LEAKS OR SPILLS THAT COULD LEAD TO CONTAMINATION OF CREEKS OR STREAMS.

3. CONCRETE TRUCKS ARE TO BE PROVIDED WITH A SEPARATE WASHOUT AREA TO AVOID DRAINAGE INTO THE STORM SYSTEM.

4. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO COMPLY WITH ALL CONDITIONS WITHIN THE NPDES PERMIT GAR 100001

5. DEVELOPER MUST SUBMIT NOI TO EPD AND ESTABLISH SAMPLING OF STORMWATER OUTFALL POINTS IN ACCORDANCE WITH GAR 100001.

6. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATER OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. (NPDES IV.D.2.c.(1))

7. WASTE WATER DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEMS MUST BE IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL REGULATIONS. (NPDES IV.D.2.c.(3))

28 WASTE MATERIALS:

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

STORMWATER MANAGEMENT

DETENTION < IS > PROPOSED FOR THIS DEVELOPMENT.

45 PRE-DEVELOPED C=0.30
POST-DEVELOPED C=0.62

CONTROLS

BMPS WILL BE IMPLEMENTED AND CONSTRUCTED IN ACCORDANCE WITH THE PHASED EROSION, SEDIMENT, AND POLLUTION CONTROL PLANS AND ACTIVITY SCHEDULE PROVIDED.

STABILIZATION MEASURES

THE FOLLOWING SITE STABILIZATION MEASURES WILL BE UTILIZED AS INDICATED ON THE EROSION, SEDIMENT, AND POLLUTION CONTROL PLANS: TEMPORARY MULCHING, TEMPORARY, AND PERMANENT SEEDING. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

26 STRUCTURAL PRACTICES

THE FOLLOWING STRUCTURAL PRACTICES WILL BE UTILIZED AS INDICATED ON THE EROSION, SEDIMENT, AND POLLUTION CONTROL PLANS: SILT FENCE, TEMPORARY SEDIMENT TRAPS AT INLETS, AND RETROFIT AT DETENTION POND.
STORM WATER MANAGEMENT:
THE PROPOSED DETENTION POND WILL REGULATED POST-DEVELOPED FLOWS TO LESS THAN PRE-DEVELOPED FLOWS.

WASTE MATERIALS

ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER. THE DUMPSTER SHALL BE EMPTIED WHEN FULL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ONSITE. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. ALL WASTE DISPOSAL PRACTICES SHALL BE CONDUCTED IN ACCORDANCE WITH STATE AND/OR LOCAL WASTE DISPOSAL REGULATIONS.

27 BUILDING MATERIALS

NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

HAZARDOUS WASTE

HAZARDOUS PRODUCTS USED ON-SITE SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDSS) SHALL BE RETAINED ON SITE. SURPLUS HAZARDOUS PRODUCTS SHALL BE DISPOSED OF ACCORDING TO LOCAL, STATE, AND FEDERAL GUIDELINES. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES AND THE PROJECT SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO DAY SITE OPERATIONS, SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. MATERIAL SAFETY DATA SHEETS (MSDS'S) WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING PARTICULARLY REGARDING SILL CONTROL TECHNIQUES.

25 PETROLEUM BASED PRODUCTS

CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/ SOLVENTS

ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

24 CONCRETE TRUCK WASHING

NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE.

FERTILIZER/HERBICIDES

THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

SANITARY WASTE

SANITARY WASTE GENERATED FROM PORTABLE UNITS SHALL BE EMPTIED AS REQUIRED TO PROVIDE FOR SANITARY CONDITIONS, ALL SANITARY WASTE DISPOSAL PRACTICES SHALL BE CONDUCTED IN ACCORDANCE WITH STATE AND/OR LOCAL WASTE DISPOSAL REGULATIONS. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTER WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SPILL CLEANUP AND CONTROL PRACTICES

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN MATERIAL STORAGE AREA ONSITE. (TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS).

3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

4. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE FEDERAL, STATE, OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

5. THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT SPILLS FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEAN UP MEASURES SHALL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

6. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

7. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITH 24 HOURS AT 1-800-424-8802.

8. FOR SPILLS GREATER THAT 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

9. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

36 INITIAL PHASE NOTES

1. PRIOR TO INITIATING ANY LAND-DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE DEVELOPMENT INSPECTOR .

2. BEFORE COMMENCING LAND DISTURBANCE, THE PRECISE LIMITS OF LAND DISTURBANCE MUST BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THESE MARKERS MUST BE MAINTAINED FOR THE ENTIRE DURATION OF THE CONSTRUCTION ACTIVITY, AND NO DISTURBANCE MAY OCCUR OUTSIDE THE APPROVED LIMITS .

3. PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES, A STABILIZED CONSTRUCTION ENTRANCE MUST BE INSTALLED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE ONTO ANY PUBLIC RIGHT-OF-WAY .

4. IMMEDIATELY AFTER ESTABLISHING THE CONSTRUCTION ENTRANCE, ALL PERIMETER EROSION CONTROLS, TREE PROTECTION FENCING, AND STORMWATER MANAGEMENT DEVICES MUST BE INSTALLED AS SHOWN ON THE CLEARING PHASE PLAN PRIOR TO FURTHER LAND-DISTURBING ACTIVITY.

5. THE SITE CONTRACTOR SHALL REQUEST AN INSPECTION OF THE INITIAL EROSION CONTROL MEASURES BY THE PROJECT DESIGN PROFESSIONAL . NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION .

6. INITIAL SEDIMENT PROTECTION MEASURES MUST BE INSTALLED ON ALL EXISTING STORM STRUCTURES.

INTERMEDIATE PHASE NOTES

1. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND FOR LIMITED DURATIONS BEFORE PERMANENT GROUND COVER IS ESTABLISHED.

2. EROSION CONTROL DEVICES MUST BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS . IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND ALTER THE LOCATION OF THESE DEVICES TO ACCOMMODATE CHANGING DRAINAGE PATTERNS AT VARIOUS STAGES OF CONSTRUCTION.

3. THE CONTRACTOR SHALL ESTABLISH BUFFERS AT THE TOP OF ALL SLOPES UNDER CONSTRUCTION . EARTH OPERATIONS IN THE VICINITY OF STREAM BUFFERS MUST BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO PROTECTED BUFFER AREAS.

4. INLET SEDIMENT PROTECTION MEASURES MUST BE INSTALLED ON ALL NEW STORM STRUCTURES AS THEY ARE CONSTRUCTED . STORM DRAIN OUTLET PROTECTION MUST BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.

5. AFTER CLEARING, GRADED AGGREGATE BASE, AND PAVEMENT HAVE BEEN INSTALLED, ALL INLET SEDIMENT TRAPS FOR CATCH BASINS OR CURB INLETS MUST BE REMOVED AND REPLACED WITH CURB INLET FILTER PROTECTION.

FINAL PHASE NOTES

1. STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE ON PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER ACTIVITY HAS STOPPED. ALL DRAINAGE SWALES AND GRADED AREAS MUST RECEIVE VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

2. UPON COMPLETION OF THE PROJECT, ESTABLISHMENT OF PERMANENT GROUND COVER, AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROPERLY DISPOSE OF THEM.

3. THE PROPOSED DETENTION/STORMWATER SYSTEM MUST BE FINALIZED TO REGULATE POST-DEVELOPED FLOWS TO LESS THAN OR EQUAL TO PRE-DEVELOPED RATES , TEMPORARY RETROFITS ON DETENTION STRUCTURES SHALL BE REMOVED ONCE ALL CONTRIBUTING DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

GENERAL MAINTENANCE AND COMPLIANCE NOTES

1. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED PLANS WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL CORRECTIONS ARE MADE.

2. THE CONTRACTOR SHALL INSPECT ALL CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE THEY ARE FUNCTIONING PROPERLY. SEDIMENT AND EROSION CONTROL MEASURES MUST ALSO BE CHECKED AFTER EACH RAIN EVENT.

3. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS AND BASINS WHEN ACCUMULATION REACHES ONE-THIRD OF THE DEPTH OF THE BASIN. ALL OTHER EROSION CONTROL DEVICES MUST BE MAINTAINED OR REPLACED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE CAPACITY OF THE DEVICE . IF NEW DRAINAGE RILLS OR CHANNELS DEVELOP, ADDITIONAL CONTROL DEVICES MUST BE INSTALLED IMMEDIATELY.

4. THE CONSTRUCTION EXIT MUST BE MAINTAINED IN A CONDITION THAT PREVENTS THE TRACKING OR FLOWING OF MUD ONTO PUBLIC RIGHTS-OF-WAY, REQUIRING TOP DRESSING WITH STONE AS CONDITIONS DEMAND . ANY MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO A PUBLIC ROADWAY OR INTO A STORM DRAIN MUST BE REMOVED IMMEDIATELY.

5. A COPY OF THE APPROVED LAND DISTURBANCE PLANS AND THE GENERAL PERMIT MUST BE PRESENT ON THE SITE AT ALL TIMES . THE DEVELOPER MUST REQUEST A SITE INSPECTION OF EROSION CONTROL PRACTICES BY THE ENGINEER WITHIN SEVEN DAYS AFTER INITIAL INSTALLATION.

HG									8
08-17-26	Septic System & Conduits Revised								

HARRIS GRAY, LLC
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO. PEF008540
824 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
E.S.& P.C. NOTES

DATE 8-17-26
DRAWN BY JAM
CHKD BY JSH
FILE NAME ESPC NOTES.DWG
JOB NO. GA260144

GEORGIA REGISTERED NO. PEF013488 PROFESSIONAL 8-17-26 ENGINEER JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

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SHT. 10 OF 19

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INSPECTIONS

a. PERMITTEE REQUIREMENTS.

(1), EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2), MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON- WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3), CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS: (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. CERTIFIED PERSONNEL SHALL ALSO CONDUCT INSPECTIONS WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST). POST-RAIN INSPECTIONS WILL RESET THE 7-DAY INSPECTION FREQUENCY REQUIREMENT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS

APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN
(7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD, SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

5. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

31 6. SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A

SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

33 a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1), A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORMWATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.

(2), A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3), WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX
B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4), ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIMELINE FOR SUBMITTAL.

b. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833- B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3), LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4), MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. SAMPLING POINTS.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLING POINTS SHALL BE LOCATED ON APPLICABLE PAGES OF THE INITIAL, INTERMEDIATE, AND FINAL PHASE OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C), IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).

(D), CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F), THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

(G), PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

(H), ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.4. OR III.D.5., WHICHEVER IS APPLICABLE.

d. SAMPLING FREQUENCY.

(1), THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
(2), HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

(3), SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(A), FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A

STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

(B), IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(C), AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-RAIN EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(D), WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED, PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

(E), EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B), THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.
*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

7. NON-STORMWATER DISCHARGES, EXCEPT FOR FLOWS FROM FIRE-FIGHTING ACTIVITIES, SOURCES OF NON- STORMWATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE.

E. REPORTING.

5. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

6. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE EPD DISTRICT OFFICE OR DELIVERY RECEIPT EMAIL TO THE APPROPRIATE EPD DISTRICT OFFICE RESOURCE MAILBOX ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF
32 CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

F. RETENTION OF RECORDS.

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;

d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D. OF THIS PERMIT; AND
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

PART V. STANDARD PERMIT CONDITIONS

A. DUTY TO COMPLY.

1. EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT, ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12- 5-20, ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION; OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT.

2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD BY THE PERMITTEE AT THE ADDRESSES SHOWN IN APPENDIX A WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE VIOLATION.

3. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-5-20, ET SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BY BOTH. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT ALSO PROVIDE PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE LEVIED FOR VIOLATIONS OF THE ACTS, ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR

NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR.

B. CONTINUATION OF THE EXPIRED GENERAL PERMIT. THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE OF THIS PERMIT, HOWEVER, AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED, FINAL AND EFFECTIVE.

C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

D. DUTY TO MITIGATE. THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

E. DUTY TO PROVIDE INFORMATION. THE PERMITTEE SHALL FURNISH TO THE DIRECTOR; A STATE OR LOCAL AGENCY APPROVING SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, GRADING PLANS, OR STORMWATER MANAGEMENT PLANS; OR IN THE CASE OF A STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, TO THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE EPD SUCH INFORMATION SHALL BE CONSIDERED PUBLIC INFORMATION AND AVAILABLE UNDER THE GEORGIA OPEN RECORDS ACT.

F. OTHER INFORMATION. WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE EPD, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

G. SIGNATORY REQUIREMENTS. ALL NOTICES OF INTENT, NOTICE OF TERMINATIONS, INSPECTION REPORTS, SAMPLING REPORTS OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE SIGNED AS FOLLOWS:

1. ALL NOTICES OF INTENT AND NOTICES OF TERMINATION SHALL BE SIGNED AS FOLLOWS:

a. FOR A CORPORATION: BY A RESPONSIBLE CORPORATE OFFICER. FOR THE PURPOSE OF THIS PERMIT, A RESPONSIBLE CORPORATE OFFICER MEANS: (1) A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIP

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

15 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

16 THERE IS NO STREAM WHICH REQUIRES AN ON-SITE BUFFER AND THERE ARE NO BUFFER ENCROACHMENTS AND/OR BUFFER VARIANCES REQUIRED.

17 ATTENTION:
AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMP's WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

18 WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

19 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

20 EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

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TEMPORARY EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL FINAL STABILIZATION.

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER BMPS WITHIN SEVEN (7) DAYS AFTER INSTALLATION.

Du

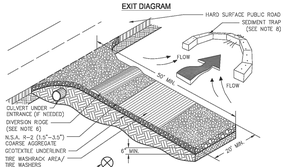
OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE PLAN SHALL INCLUDE THE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OR CONSTRUCTION ACTIVITY.

Co

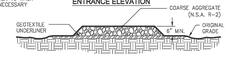
MAINTENANCE
The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



ENTRANCE ELEVATION



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION #-2 (1.5"-3.5" STONE).
4. LENGTH SHALL BE AS SHOWN, MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Figure 8-14.1

GSWCC 2016 Edition 6-50

THERE ARE [ ] / ARE NO [X] WATERS OF THE STATE WITHIN 200 FEET OF THE PROJECT SITE. (NO PROPOSED DISTURBANCE IN STREAM BUFFERS)
THERE ARE [ ] / ARE NO [X] WETLANDS WITHIN 200 FEET OF THE PROJECT SITE. (NO PROPOSED DISTURBANCE IN WETLAND AREAS) 42

PRIMARY PERMITTEE:
Troup Co. Board of Commissioners
100 Ridley Ave.
LaGrange, GA 30240
JAMES ANDERSON
706-645-5885
24-HOUR CONTACT:
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706-298-3792 janderson@troupco.org

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THE CONTACT PERSON MUST BE ACCESSIBLE 24 HOURS A DAY, 7 DAYS A WEEK WITH NO EXCEPTIONS.

30 15 0 30 60 90
SCALE IN FEET
1" = 30'

E.C. LEGEND:

Co	CONSTRUCTION EXIT	Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Sd1	SEDIMENT BARRIER (SEE DETAIL FOR SPECIFIC TYPE)	Ds2	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)
Sd2	INLET SEDIMENT TRAP (SEE DETAIL FOR SPECIFIC TYPE)	Ds3	DISTURBED AREA STABILIZATION (PERMANENT SEEDING)
St	RIPRAP OUTLET PROTECTION	Ds4	DISTURBED AREA STABILIZATION (SODDING)
Su	SURFACE ROUGHENING	Du	DUST CONTROL
Rt	RETROFIT (USED INSTEAD OF SKIMMER BECAUSE POND IS TOO NARROW)	Se	SLOPE STABILIZATION

21 TOTAL SITE AREA: 2.243 Ac.
DISTURBED AREA: 2.0 Ac.

N/F
JOHN D LINDSAY
& MARYA LINDSAY
D.B. 2224, PG. 679
PARCEL ID.
0540 000070H

N/F
MICHAEL DALE THIEL
& LINDA LUVETTA THIEL
D.B. 2226, PG. 372
PARCEL ID.
0540 000070A

PRE-DEV
DA No. 1
Area: 1.25 ACRES

PRE-DEV
DA No. 2
Area: 0.99 ACRES

SAMPLING POINT
LAT: N032.9171°
LONG: W085.0198°

St No.1
Rt
Sd1-S
No.1

LIMITS OF DISTURBANCE
PROPERTY LINE (TYP.)
CONSTRUCTION EXIT
LAT: N032.9167°
LONG: W085.0187°

EXISTING POWER POLE TO BE LEFT IN PLACE. CONTRACTOR TO COORDINATE w/ LOCAL UTILITY PROVIDER IF NECESSARY TO RELOCATE.

WHITESVILLE RD A.K.A. SR 219
(80' R/W, 55 MPH)

BURKES CHAPEL RD
(80' R/W)

P.O.B.
IPF
1/2" RB

18" CMP CULVERT
INV 728.61 E
INV 728.75 W

AREA
2.243 ACRES
97,726 S.F.
LUTHER COLWELL
D.B. 1812, PG. 116
PARCEL ID.
0540 000070G

L.L. 181
L.L. 160

[redacted]

NO.	DATE / Septic System & Conduits Revised
8	08-17-26

HARRIS GRAY, LLC
ENGINEERS * SURVEYORS * PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEP006640
824 THIRD AVENUE * WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
E.S.& P.C. PLAN
INITIAL PHASE

DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	ESPC PLAN.DWG
JOB NO.	GA260144

GEORGIA REGISTERED NO. PE034488 PROFESSIONAL 8-17-26 ENGINEER JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

SHT. 12 OF 19

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

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(80' R/W, 55 MPH)

BURKES CHAPEL RD
(80' R/W)

LIMITS OF DISTURBANCE
PROPERTY LINE (TYP.)
SAMPLING POINT
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LONG: W085.0198°
No.1
No.2
CONCRETE WASHOUT BASIN
CONSTRUCTION EXIT
LAT: N032.9167°
LONG: W085.0187°
RESERVE SEPTIC LINE
NOT TO BE BUILT UNLESS PRIMARY LINES FAIL
EXISTING POWER POLE TO BE LEFT IN PLACE. CONTRACTOR TO COORDINATE w/ LOCAL UTILITY PROVIDER IF NECESSARY TO RELOCATE.
12" CMP CULVERT
INV 728.61 E
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TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
E.S.& P.C. PLAN
INTERMEDIATE PHASE

DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	ESPC PLAN.DWG
JOB NO.	GA260144

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN SCOTT HARRIS
NO. PE35488
8-17-26
GSWCC LEVEL II # 4456
EXP. 03-27-2027 2

SHT. 13 OF 19

HG 8
Septic System & Conduits Revised
08-17-26

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

15 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

16 THERE IS NO STREAM WHICH REQUIRES AN ON-SITE BUFFER AND THERE ARE NO BUFFER ENCROACHMENTS AND/OR BUFFER VARIANCES REQUIRED.

17 ATTENTION:
AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMP's WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

18 WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

19 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

20 EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

21 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

ALL DISTURBED AREAS TO BE LEFT IDLE FOR LESS THAN TWO WEEKS TO BE TREATED WITH MULCH (Ds1). AREAS LEFT IDLE FOR TWO TO FOUR WEEKS SHALL BE TREATED WITH TEMPORARY GRASSING (Ds2). AREAS LEFT IDLE FOR FOUR WEEKS OR MORE TO BE ESTABLISHED WITH PERMANENT GRASSING (Ds3).

TEMPORARY EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL FINAL STABILIZATION.

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER BMPS WITHIN SEVEN (7) DAYS AFTER INSTALLATION.

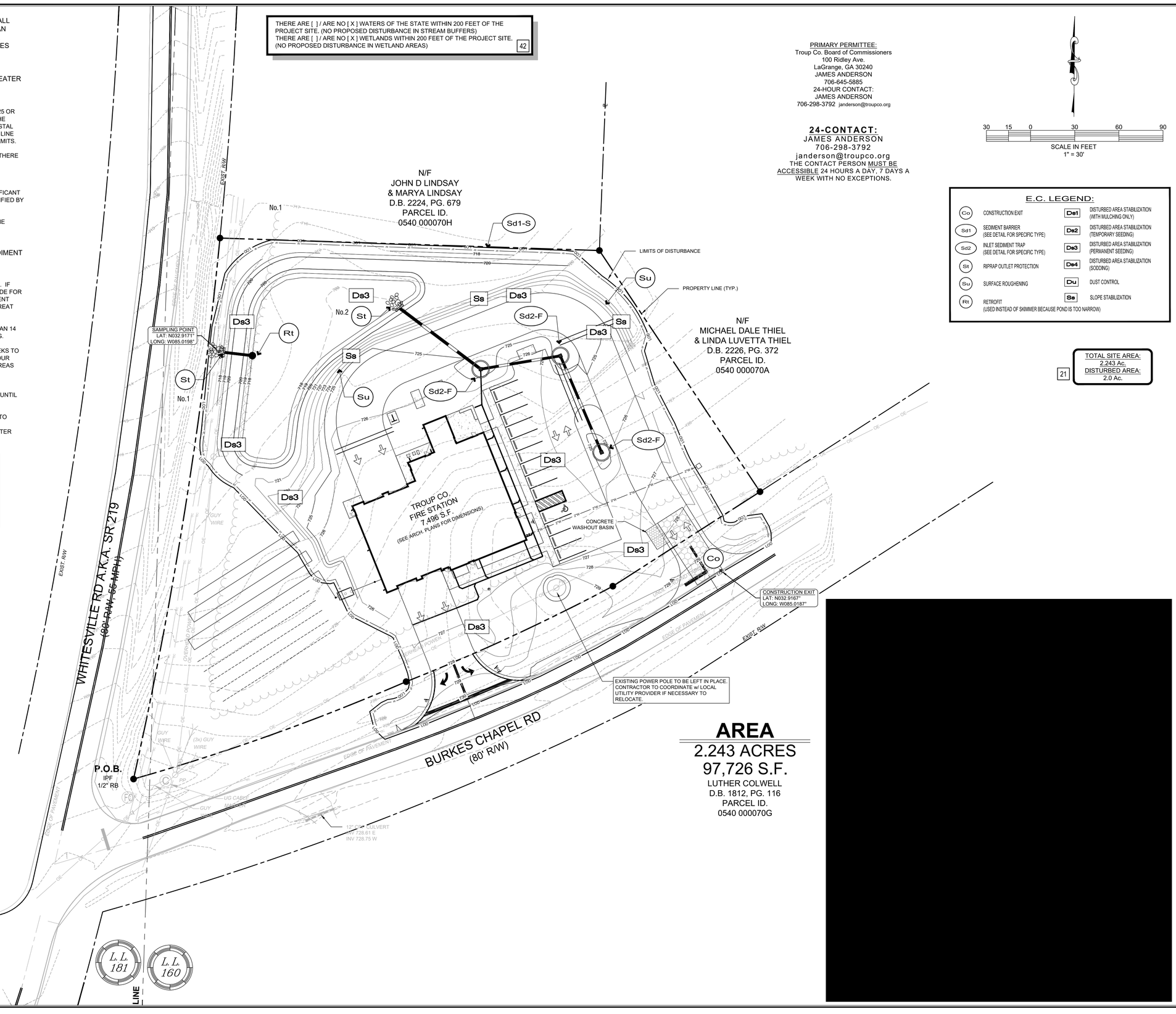
Du

OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE PLAN SHALL INCLUDE THE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OR CONSTRUCTION ACTIVITY.

THERE ARE [ ] / ARE NO [X] WATERS OF THE STATE WITHIN 200 FEET OF THE PROJECT SITE. (NO PROPOSED DISTURBANCE IN STREAM BUFFERS)
THERE ARE [ ] / ARE NO [X] WETLANDS WITHIN 200 FEET OF THE PROJECT SITE. (NO PROPOSED DISTURBANCE IN WETLAND AREAS) 42

PRIMARY PERMITTEE:
Troup Co. Board of Commissioners
100 Ridley Ave.
LaGrange, GA 30240
JAMES ANDERSON
706-645-5885
24-HOUR CONTACT:
JAMES ANDERSON
706-298-3792 janderson@troupco.org

24-CONTACT:
JAMES ANDERSON
706-298-3792
janderson@troupco.org
THE CONTACT PERSON MUST BE ACCESSIBLE 24 HOURS A DAY, 7 DAYS A WEEK WITH NO EXCEPTIONS.



E.C. LEGEND:

Co	CONSTRUCTION EXIT	Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Sd1	SEDIMENT BARRIER (SEE DETAIL FOR SPECIFIC TYPE)	Ds2	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)
Sd2	INLET SEDIMENT TRAP (SEE DETAIL FOR SPECIFIC TYPE)	Ds3	DISTURBED AREA STABILIZATION (PERMANENT SEEDING)
St	RIPRAP OUTLET PROTECTION	Ds4	DISTURBED AREA STABILIZATION (SODDING)
Su	SURFACE ROUGHENING	Du	DUST CONTROL
Rt	RETROFIT (USED INSTEAD OF SKIMMER BECAUSE POND IS TOO NARROW)	Ss	SLOPE STABILIZATION

21 TOTAL SITE AREA: 2.243 Ac.
DISTURBED AREA: 2.0 Ac.

AREA

2.243 ACRES
97,726 S.F.
LUTHER COLWELL
D.B. 1812, PG. 116
PARCEL ID.
0540 000070G

[redacted]

HG	8
Septic System & Conduits Revised	
08-17-26	

HARRIS GRAY, LLC
ENGINEERS * SURVEYORS * PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEP006640
824 THIRD AVENUE * WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
E.S.& P.C. PLAN
FINAL PHASE

DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	ESPC PLAN.DWG
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SHT. 14 OF 19

Disturbed Area Stabilization (With Mulching Only) Ds1



DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE

- To reduce runoff and erosion
- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
- To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to **Ds2 -Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).**

SPECIFICATIONS

Mulching Without Seeding

This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.

2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

   Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifiers**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.
2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

Disturbed Area Stabilization (With Temporary Seeding) Ds2



DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

PURPOSE

- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification **Ds1-Disturbed Area Stabilization (With Temporary Seeding).**

CONDITIONS

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Disturbed Area Stabilization (With Permanent Vegetation) Ds3



DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

PURPOSE

- To protect the soil surface from erosion
- To reduce damage from sediment and runoff to down-stream areas
- To improve wildlife habitat and visual resources
- To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. **Final Stabilization** means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

Permanent vegetation shall consist of, planted trees, shrubs, perennial vines; or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

PLANNING CONSIDERATIONS

1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.
3. No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification **Ds4-Disturbed Area Stabilization (With Sodding)**.
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT		Co 1 each	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr 1 each	A traveleay constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 1 each	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2 1 each	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr 1 each	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL		Re 1 each	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING		Rt 1 each	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER		TYPE I, II, III	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN		Sd3 1 each	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER		Sk 1 each	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM		Spb 1 each	A linear control device constructed as a diversion perpendicular to the direction of the runoff to enhance dissipation and infiltration of runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes.

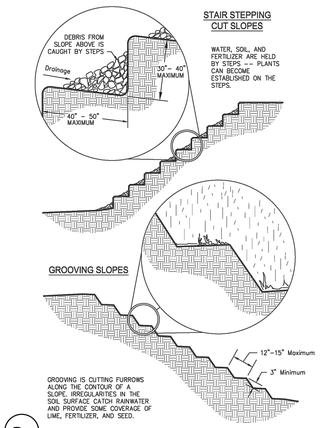
STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING		Sr 1 each	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		St 1 each	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		Su 1 each	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN		Tc 1 each	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING		Tp 1 each (DEPTH STRIPPED AND STOCKPILE AREA)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION		Tr 1 each (DRIPLINE TREE SAVING)	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		Wt 1 each	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf 1 each	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded, artificialy constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

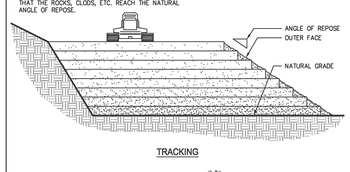
STAIR STEPPING CUT SLOPES



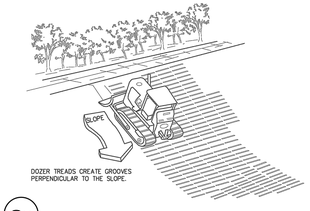
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Figure 6-35.1

FILL SLOPE TREATMENT



TRACKING

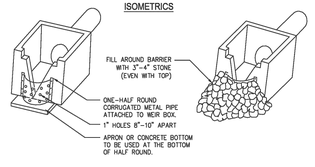


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Figure 6-35.2

PERFORATED HALF-ROUND PIPE WITH STONE FILTER

ISOMETRICS



PLAN

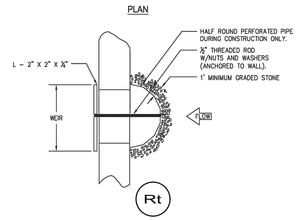
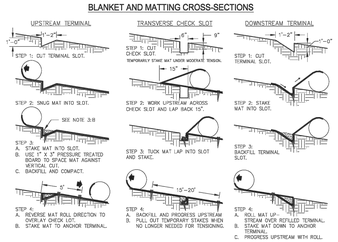
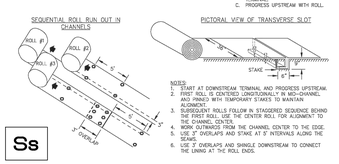


Figure 6-26.1 Perforated Half- Round Pipe with Stone Filter

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS





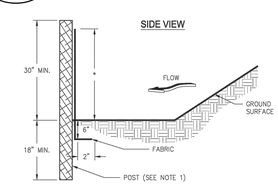
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Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

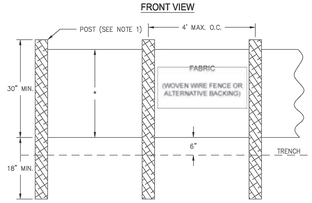
Sd1-S

SILT FENCE - TYPE C

SIDE VIEW



FRONT VIEW

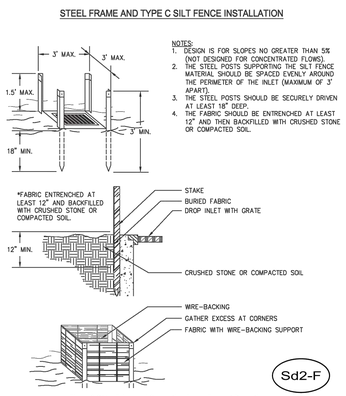


NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Figure 6-27.2

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

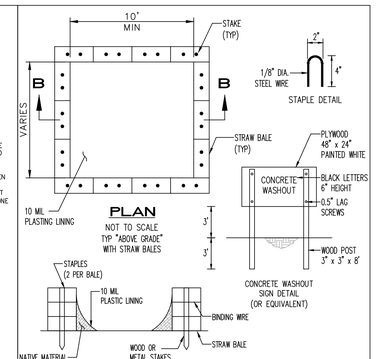
STEEL FRAME AND TYPE C SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Sd2-F

Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

CONCRETE WASHOUT BASIN

HARRIS GRAY, LLC
ENGINEERS - SURVEYORS - PLANNERS
CERTIFICATE OF AUTHORIZATION NO.: PEPF006540
824 THIRD AVENUE - WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.

GSWCC DETAILS

DATE	AUGUST 17, 2026
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	ESPC DTLS.DWG
JOB NO.	GA260188

GEORGIA REGISTERED NO. PE35488 PROFESSIONAL 8-17-26 ENGINEER JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

HG | 8
Septic System & Conduits Revised
08-17-26

Table 6-4.1 - Temporary Cover or Companion Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS [1]

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
BARLEY *Hordeum vulagre*					
alone	3 bu. (144 lbs)	3.3 lbs	M-L		14,000 seed per pound. Winter hardy. Use on productive soils.
in mixture	1/2 bu. (24lbs)	0.6 lb	P		
			C		
LESPEDEZA, ANNUAL *Lespedeza striata*					
alone	40 lbs	0.9 lb	M-L		200,000 seed per pound. May volunteer for several years. Use inoculant EL.
in mixture	10 lbs	0.2 lb	P		
			C		
LOVEGRASS, WEEPING *Eragrostis curvula*					
alone	4 lbs	0.1 lb	M-L		1,500,000 seed per pound. May last for several years. Mix with *Sericea lespedeza.*
in mixture	2 lbs	0.05 lb	P		
			C		
MILLET, BROWNTOP *Panicum fasciculatum*					
alone	40 lbs	0.9 lb	M-L		137,000 seed per pound. Quick dense cover. Will provide excessive competion in mixtures if seeded at high rate.
in mixture	10 lbs	0.2 lb	P		
			C		

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
MILLET, PEARL *Pennesetum glaucum*					
alone	50 lbs	1.1 lbs	M-L		88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
			P		
			C		
OATS *Avena sativa*					
alone	4 bu. (128 lbs)	2.9 lbs	M-L		13,000 seed per pound. Use on productive soils. Not as a winter hardy as rye or barley.
in mixture	1 bu. (32 lbs)	0.7 lb	P		
			C		
RYE *Secale cereale*					
alone	3 bu. (168 lbs)	3.9 lbs	M-L		18,000 seed per pound. Quick cover. Drought tolerant and winter hardy.
in mixture	1/2 bu. (28 lbs)	0.6 lb	P		
			C		
RYEGRASS, ANNUAL *Lolium temulentum*					
alone	40 lbs	0.9 lb	M-L		227,000 seed per pound. Dense cover. Very competitive and is not to be used in mixtures.
			P		
			C		
SUDANGRASS *Sorghum sudanese*					
alone	60 lbs	1.4 lbs	M-L		55,000 seed per pound. Good on droughty sites. Not recommended for mixtures.
			P		
			C		

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
TRITICALE *X-Triticosecale*					
alone	3 bu. (144 lbs)	3.3 lbs	C		Use on lower part of Southern Coastal Plain and in Atlantic Coastal Flatwoods only.
in mixture	1/2 bu. (24 lbs)	0.6 lb			
WHEAT *Triticum aestivum*					
alone	3 bu. (180 lbs)	4.1 lbs	M-L		15,000 seed per pound. Winter hardy.
in mixture	1/2 bu. (30 lbs)	0.7 lb	P		
			C		

[1]Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily

[2]Reduce seeding rates by 50% when drilled.

[3]M-L represents the Mountain; Blue Ridge; and Ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents Southern Coastal Plan; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs
(see Figure 6-4.1, p. 6-40)

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
BAHIA, PENSACOLA *Paspalum notatum*					
alone or with temporary cover	60 lbs	1.4 lbs	P		166,000 seed per pound. Low growing. Sod forming. Slow to establish. Plant with a companion crop. Will spread nto bermuda pastures and awns. Mix with Sericea lespedeza or weeping lovegrass.
with other perennials	30 lbs	0.7 lb	C		
BAHIA, WILMINGTON *Paspalum notatum*					
alone or with temporary cover	60 lbs	1.4 lb	M-L		
with other perennials	30 lbs	0.7 lb	P		Same as above.
BERMUDA, COMMON *Cynodon dactylon*					
Hulled seed			P		
alone	10 lbs	0.2 lb	C		1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fileds.
with other perennials	6 lbs	0.7 lb			
BERMUDA, COMMON *Cynodon dactylon*					
Unhulled seed					
with temporary cover	10 lbs	0.2 lb	P		Plant with winter annuals.
with other perennials	6 lbs	0.1 lb	C		Plant with Tall Fescue

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
BERMUDA SPRIGS *Cynodon dactylon*					
Coastal, Common, Midland, or Tift 44	40 cu ft or sod plugs 3' x3'	0.9 cu ft	M-L		A cubic foot contains approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately 800 springs.
Coastal, Common, of Tift 44			P C		Same as above.
Tift 78			C		Southern Coastal Plain only
CENTIPEDE *Eremochloa ophuiroides*	Block sod only		P C		Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in concentrated flow areas. Irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far as north Athens and Atlanta
CROWNVETECH Coronilla varia					
with winter annuals or cool season grasses	15 lbs	0.3 lb	M-L P		100,000 seed per pound. Dense growth. Drought tolerant and fire resistant. Attractive rose, pink and white blossoms spring to late fall. Mix with 30 pounds of Tall fescue or 15 pounds of rye. Inoculate see with M inoculant. Use from North Atlanta and Northward.

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
FESCUE, TALL *Festuca arundinacea*					
alone	50 lbs	1.1 lb	M-L		227,000 seed per pound. Use alone only on better sites. Mix with perennial lespedeza or Crownvetch. Apply topdressing in spring following fall plantings. Not for heavy use areas or athletic fields.
with other perennials	30 lbs	0.7 lb	P		
KUDZU *Pueraria thumbergiana*					
Plants or crowns	3' - 7' apart		ALL		Rapid and vigorous growth. Excellent in gully erosion control. Will climb. Good livestock forage.
LESPEDEZA SERICEA *Lespedeza cuneata*					
scarified	60 lbs	1.4 lb	M-L P C		350,000 seed per pound. Widely adapted. Low maintenace. Mix with Weeping lovegrass, Common bermuda, bahia, or tall fescue. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inoculate seed with EL inoculant.
unscarified	75 lbs	1.7 lb	M-L P C		Mix with Tall fesue or winter annuals.
seed- bearing hay	3 tons	1338 lbs	M-L P C		Cut when seed mixture is mature, but before, it shatters. Add Tall fescue or winter annuals.

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
LESPEDEZA *Ambro virgata Lespedeza virgata DC* or *Appalow Lespedeza cuneata (Dumont) G. Don)*					
scarified	60 lbs	1.4 lb	M-L P C		300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban areas. Spreading-type growth. New growth has bronze coloration. Mix with weeping lovegrass, common bermuda, bahia, tall fescue or winter annuals. Do not mix with Sericea lespedeza. Slow to develop solid stands. Inoculate seed with EL inoculant.
unscarified	75 lbs	1.7 lb	M-L P C		
LESPEDEZA, SHRUB *Lespedeza bicolor Lespedeza thumbergii*					
plants	3' x3'		M-L P C		Provide wildlife food and cover.
LOVEGRASS, WEEPING *Eragrostis curvula*					
alone	4 lbs	0.1 lb	M-L P		1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea lespedeza on roadbanks.
with other perennials	2 lbs	0.05 lb	C		

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[3]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
MAIDENCANE *Panicum hemitomon*					
sprigs	2' x 3' spacing	ALL			For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
PANICGRASS, ATLANTIC COASTAL *Panicum amarum var amarukum*					
	20 lbs	0.5 lb	P C		Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea lespedeza except on sand dunes.
REED CANARY GRASS *Phalaris arundinacea*					
alone	50 lbs	1.1 lb	M-L		Grows similar to Tall fescue
with other perrenials	30 lbs	0.7 lb	P		
SUNFLOWER, 'AZTEC' MAXIMILLIAN *Helianthus maximiliani*					
	10 lbs	0.2 lb	M-L P C		227,000 seed per pound. Mix with Weeping lovegrass or other low-grwoing grasses or legumes.

1 Reduce seeding rates by 50% when drilled
2 PLS is an abbreviation for Pure Live Seed. Refer to Section V.E. of these specifications.
3 M-L represents to Mountain; Blue Ridge; and Ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents the Southern Coastal Plain;Sand Hills;Black Lands;and Atlantic Coast Flatwoods MLRAs. See Figure 6-4.1

Dust Control on Disturbed Areas

Du



DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE
•To prevent surface and air movement of dust from exposed soil surfaces.

•To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only)**. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)**.

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac - Tackifiers**.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	---
	Maintenance	0-10-10	400 lbs./ac.	---
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	---
	Second	10-10-10	1300 lbs./ac. 3/	---
	Maintenance	10-10-10	1100 lbs./ac.	---
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	---
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	---
	Maintenance	0-10-10	700 lbs./ac. 4/	
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./6/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

HARRIS GRAY, LLC
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CERTIFICATE OF AUTHORIZATION NO.: PEF006540
824 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.
GSWCC DETAILS

DATE	AUGUST 17, 2026
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	ESPC DTLS.DWG
JOB NO.	GA260188

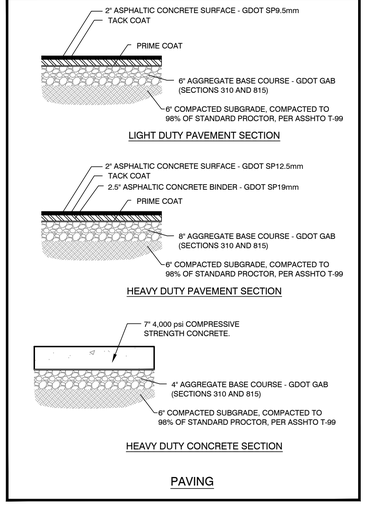
GEORGIA REGISTERED No. PE006540 PROFESSIONAL 8-17-26 ENGINEER JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

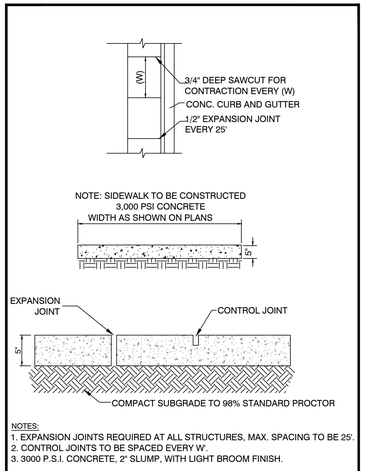
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SHT. 16 OF 19

HG													8
Septic System & Crondolls Revised													
08-17-26													

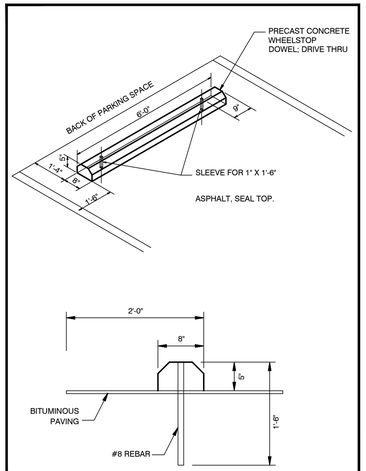


PAVING



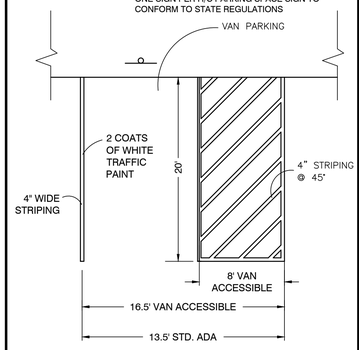
NOTES:
1. EXPANSION JOINTS REQUIRED AT ALL STRUCTURES, MAX. SPACING TO BE 25'.
2. CONTROL JOINTS TO BE SPACED EVERY W'.
3. 3000 P.S.I. CONCRETE, 2" SLUMP, WITH LIGHT BROOM FINISH.

CONCRETE SIDEWALK DETAIL

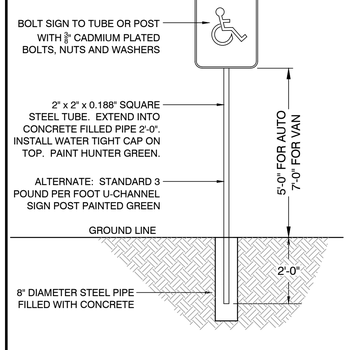


CONCRETE WHEEL STOPS

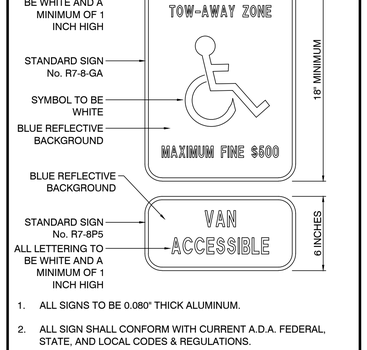
NOTE:
WHERE TURNDOWN SIDEWALK FORM CURB, SIGNS SHALL BE PLACED BEHIND SIDEWALK; WHERE A GRASSED STRIP IS PROVIDED BETWEEN CURB AND SIDEWALK, SIGN SHALL BE PLACED BEHIND CURB AS SHOWN.



A.D.A. STRIPING

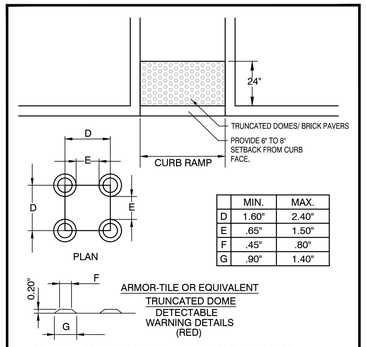


A.D.A. SIGN



1. ALL SIGNS TO BE 0.080" THICK ALUMINUM.
2. ALL SIGN SHALL CONFORM WITH CURRENT A.D.A. FEDERAL, STATE, AND LOCAL CODES & REGULATIONS.
3. PLACE "VAN ACCESSIBLE" SIGN IN FRONT OF VAN ACCESSIBLE SPACES ONLY.

A.D.A. SIGN



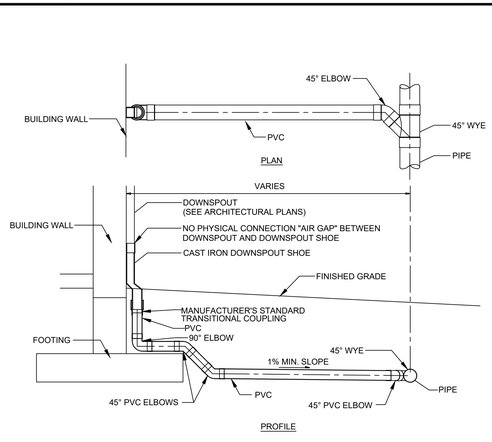
	MIN.	MAX.
D	1.60"	2.40"
E	.65"	1.50"
F	.45"	.80"
G	.90"	1.40"

ARMOR-TILE OR EQUIVALENT
TRUNCATED DOME DETECTABLE WARNING DETAILS (RED)

TRUNCATED DOMES AND ALL RELATED INSTALLED SURFACE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. ALL DETECTABLE WARNING SURFACE INSTALLATIONS SHALL BE AT MINIMUM, AT LEAST AS NON SKID AS THE SURROUNDING PEDESTRIAN SURFACES.

(CURB RAMPS) SHALL HAVE A DETECTABLE WARNING COMPLYING WITH RULE 120-3-20-.40. DETECTABLE WARNING TEXTURES SHALL CONSIST OF TRUNCATED DOMES; (GROOVES MAYBE USED INDOORS ONLY). TEXTURE SHALL CONTRAST IN COLOR WITH THE SURROUNDING SURFACE. THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND 2' DEPTH OF THE CURB RAMP. RULE 120-3-20-.18(7). GEORGIA ACCESSIBILITY CODE. ALL A.D.A. ROUTES SHALL COMPLY WITH CITY OF COLUMBUS AND STATE OF GEORGIA.

A.D.A. RAMP WITH DETECTIVE WARNING SURFACE



ROOF DRAIN CONNECTION

STATE OF GA.	PROJECT NUMBER:	SHEET NO.	TOTAL SHEETS

GENERAL NOTES
ALTERNATE I

GALVANIZED STEEL SHEET
USE GALVANIZED STEEL SHEET CONFORMING TO AASHTO M 218.

CONNECTORS
ANNULAR END SECTION SHALL INCLUDE CONNECTION OF THE TYPE REQUIRED FOR THE SIDE DRAIN USED.

SAFETY BARS
SHALL BE 3'SCHEDULE 40 GALVANIZED STEEL PIPE. PIPE SAFETY BARS SHALL BE FIELD WELDED TO END SECTION. BE REQUIRED FOR ALL SAFETY END SECTIONS.

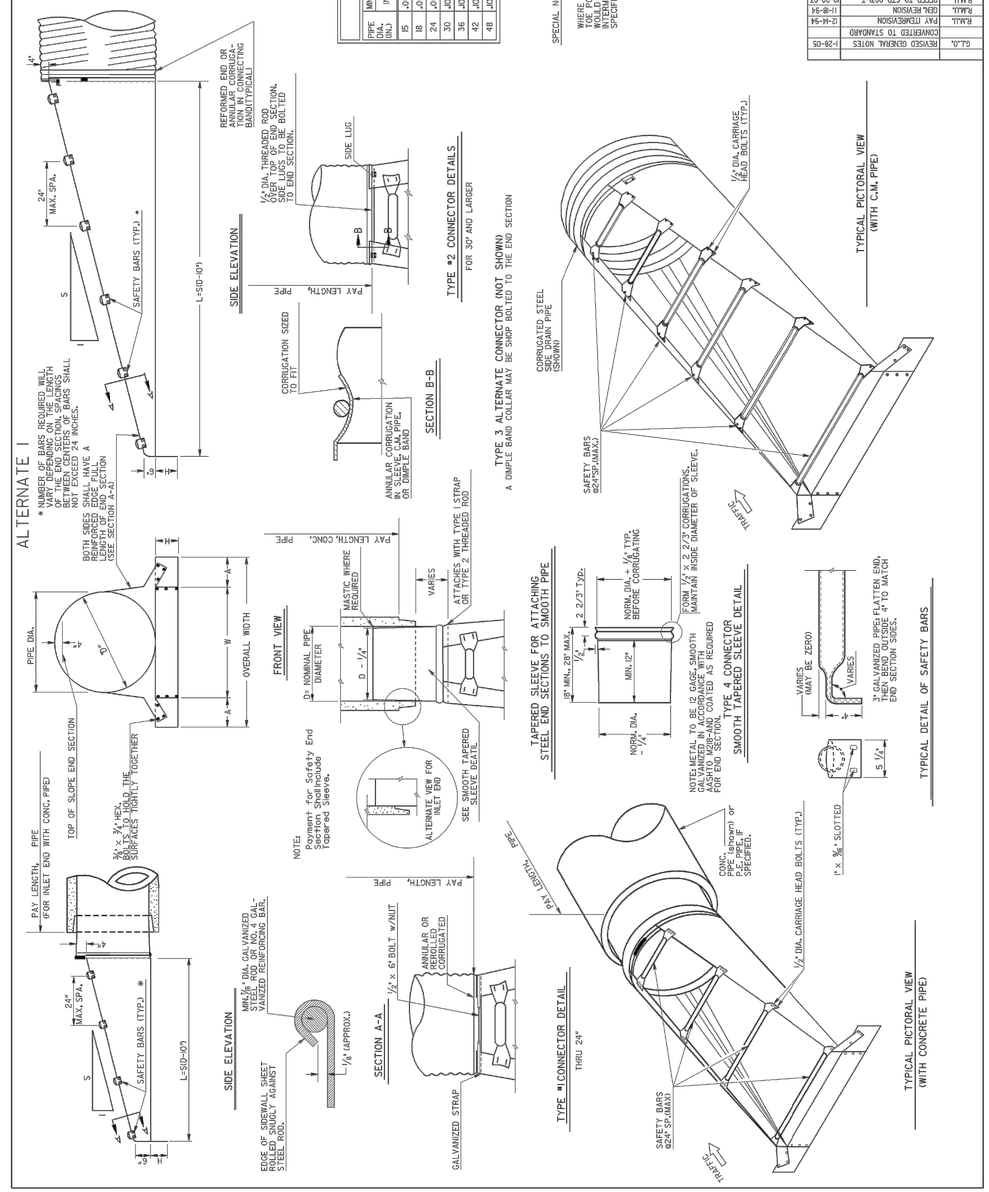
MISCELLANEOUS DETAILS
DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP MANUFACTURER'S REQUIREMENTS SUBJECT TO APPROVAL BY THE D.O.T.'S LABORATORY. A SAMPLE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL OF THE PRODUCT.

SIZES, DIMENSIONS, AND THICKNESSES										
PIPE DIA. (IN.)	MIN. THICK.	DIMENSIONS (INCHES)				∡ SLOPE (DEGREES)	LENGTH OF SLOPE (IN.)	I DIMENSION		
	IN.	GAGE	A	H	B (±½")	OVERALL WIDTH (IN.)				LENGTH (IN.)
15	.064	16	8	6	21	37	46	20	6H	30
18	.064	16	8	6	24	40	46	32	6H	48
24	.064	16	8	6	30	43	46	56	6H	84
30	.109	12	9	6	36	60	46	80	6H	120
36	.109	12	12	9	42	66	46	104	6H	156
42	.109	12	16	12	48	80	46	128	6H	192
48	.109	12	16	12	54	86	46	152	6H	228

*SEE STD.NO.303T FOR SLOPES AT SIDE ROAD OR AT DRIVES.

SPECIAL NOTE:

WHERE THE LENGTH OF PIPE OR THE DISTANCE BETWEEN WHERE PIPE RUNS INTERSECT OR CHANGE DIRECTIONS WOULD BE LESS THAN 30 FT., CONTINUED S.D. PIPE WITH AN ANNULAR END SECTION MAY BE USED INSTEAD OF THE SPECIFIED MITERED END.



DATE	REVISION	BY
01-28-05	REVISED GENERAL NOTES	D.L.D.
	CONVERTED TO STANDARD	
11-19-96	REFER TO STD. 303T-T	RMM.
11-18-96	GENL REVISION	RMM.
12-19-94	PAY LENGTHS/REVISION	RMM.
10-20-93	REFER TO STD. 303T-T	RMM.

DESIGNED
DRAWN
CHECKED

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
SAFETY END SECTION
(METAL)
(FOR SIDE DRAIN PIPE OR FOR STORM DRAIN PIPE RUNS PARALLEL TO MAINLINE)
ALTERNATE I

NO SCALE — SEPT., 1993

SUBMITTED: _____ STATE ROAD & APPURTENANCES ENGINEER
APPROVED: _____ CHIEF ENGINEER

NUMBER 1122 — SHEET 1 OF 3

7/31/2009 12:09:34 PM \\GDOT-SSH\GDRIVE\DOT\pe_dtl_wrkpkt_ref_gwass 1\Standards\English Standards (.PRF\1122-1_prf 00-000

7/31/2009 12:36:37 PM \\GDOT-SSH\GDRIVE\DOT\pe_dtl_wrkpkt_ref_gwass 1\Standards\English Standards (.PRF\1122-2.prf

08-17-26 — Septic System & Crosslabs Revised — HG — 8

HARRIS GRAY, LLC
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CERTIFICATE OF AUTHORIZATION NO. PEF006540
824 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.

CONSTRUCTION DETAILS

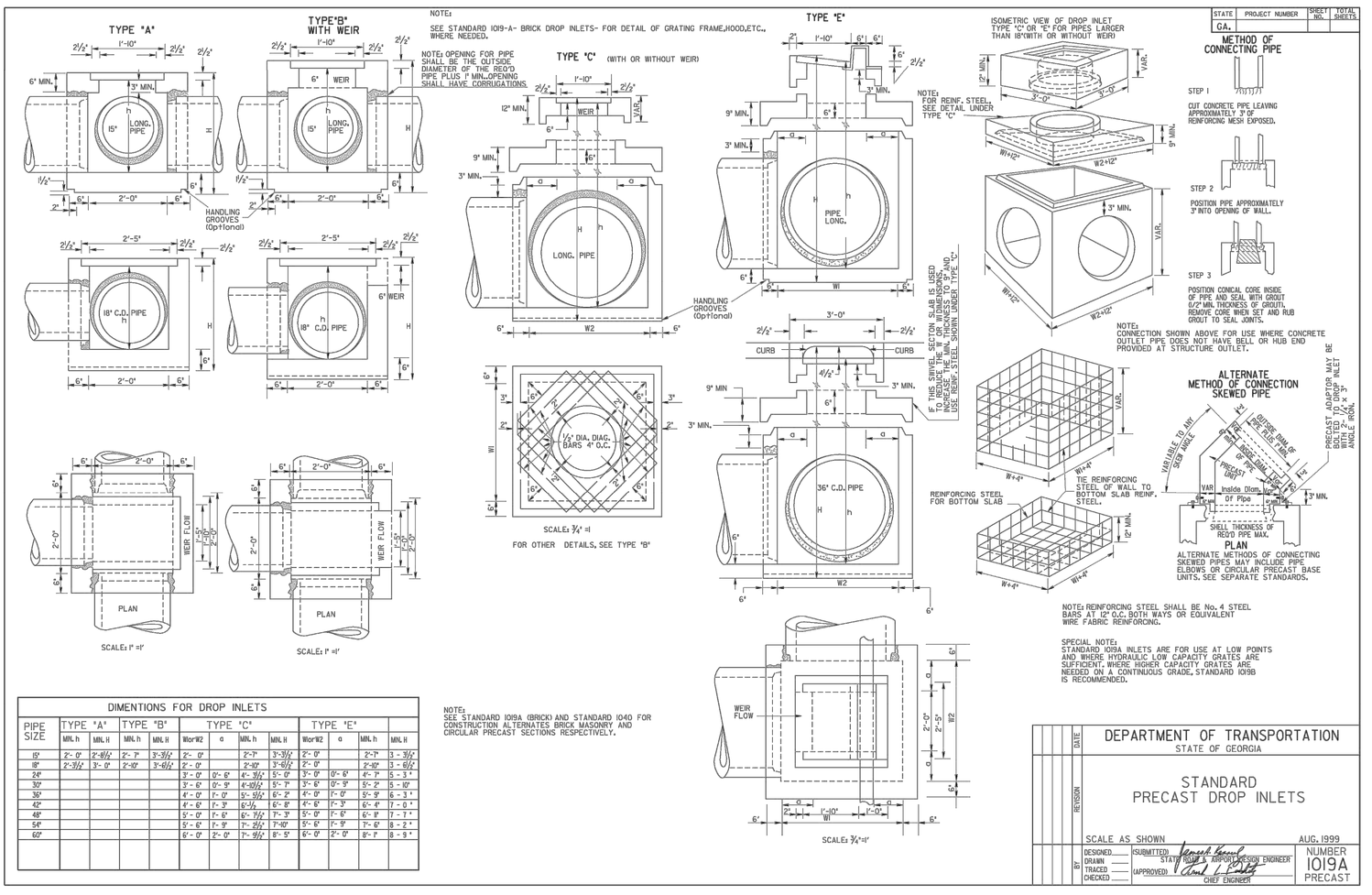
DATE	8-17-26
DRAWN BY	JAM
CHKD BY	JSH
FILE NAME	DTLS.DWG
JOB NO.	GA260144

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE006468
8-17-26
JOHN SCOTT HARRIS

GSWCC LEVEL II # 4456
EXP. 03-27-2027

2

SHT. 17 OF 19



DIMENTIONS FOR DROP INLETS

PIPE SIZE	TYPE "A"		TYPE "B"		TYPE "C"				TYPE "E"			
	MIN. h	MIN. H	MIN. h	MIN. H	W or W2	a	MIN. h	MIN. H	W or W2	a	MIN. h	MIN. H
15"	2'- 0"	2'-8½"	2'- 7"	3'-3½"	2'- 0"		2'-7"	3'-3½"	2'- 0"		2'-7"	3 - 3½"
18"	2'-3½"	3'- 0"	2'-10"	3'-6½"	2'- 0"		2'-10"	3'-6½"	2'- 0"		2'-10"	3 - 6½"
24"					3'- 0"	0'- 6"	4'- 3½"	5'- 0"	3'- 0"	0'- 6"	4'- 7"	5 - 3 "
30"					3'- 6"	0'- 9"	4'-10½"	5'- 7"	3'- 6"	0'- 9"	5'- 2"	5 - 10"
36"					4'- 0"	1'- 0"	5'- 5½"	6'- 2"	4'- 0"	1'- 0"	5'- 9"	6 - 3 "
42"					4'- 6"	1'- 3"	6'-1½"	6'- 8"	4'- 6"	1'- 3"	6'- 4"	17 - 0 "
48"					5'- 0"	1'- 6"	6'- 9½"	7'- 3"	5'- 0"	1'- 6"	6'- 8"	7 - 7 "
54"					5'- 6"	1'- 9"	7'- 5½"	7'-10"	5'- 6"	1'- 9"	7'- 6"	8 - 2 "
60"					6'- 0"	2'- 0"	7'- 9½"	8'- 5"	6'- 0"	2'- 0"	8'- 1"	8 - 9 "

STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS: GA.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PRECAST DROP INLETS

SCALE AS SHOWN AUG. 1999

DESIGNED — (SUBMITTED) STATE BRIDGE & ROADWAY DESIGN ENGINEER
DRAWN
TRACED
CHECKED — (APPROVED) CHIEF ENGINEER

NUMBER 1019A PRECAST

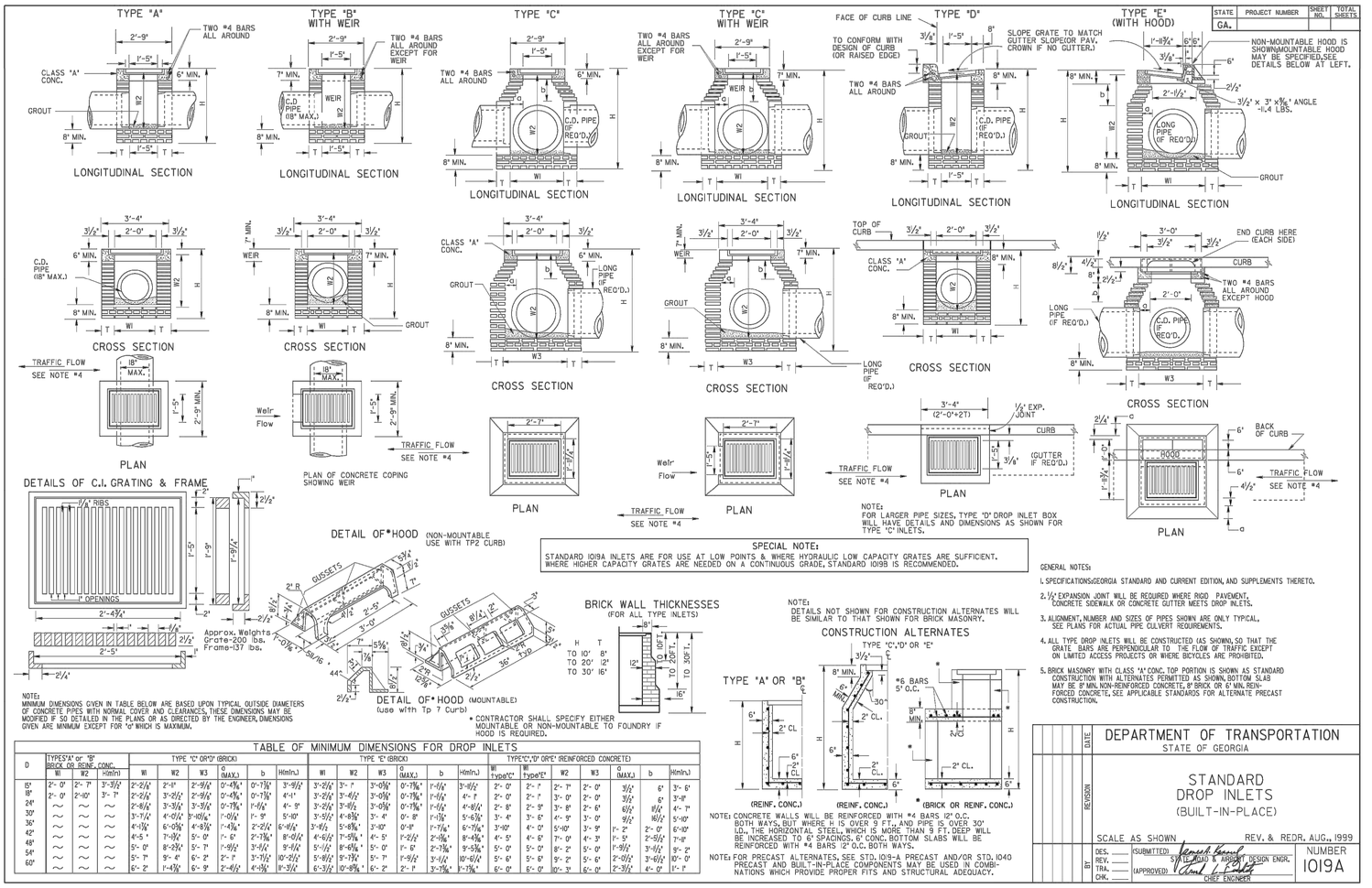


TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPES "A" or "B" BRICK or REINF. CONC.			TYPE "C" OR "D" (BRICK)						TYPE "C","D" OR "E" (REINFORCED CONCRETE)						
	W1	W2	H(MIN.)	W1	W2	W3	C (MAX.)	b	H(min.)	W1 type"A"	W1 type"B"	b	H(min.)	W2	W3	C (MAX.)	b	H(min.)
15"	2'- 0"	2'- 7"	3'-3½"	2'-2½"	2'-9"	2'-9¼"	0'-4⅝"	0'-1½"	3'-8½"	3'-2½"	3'- 7"	3'-0⅝"	0'-1⅝"	1'-11½"	2'- 0"	2'- 7"	2'- 0"	3½"	6"	3'- 6"
18"	2'- 0"	2'-10"	3'- 7"	2'-2½"	3'-2½"	2'-9½"	0'-4⅝"	0'-1½"	4'-1"	3'-2½"	3'-4½"	3'-0⅝"	0'-1⅝"	1'-11½"	4'- 1"	2'- 0"	2'- 7"	3'- 0"	2'- 0"	3½"	6"	3'-8"
24"	~	~	~	2'-8½"	3'-3½"	3'-3½"	0'-1⅝"	1'-1½"	4'- 9"	3'-2½"	3'-6½"	3'-0⅝"	0'-1⅝"	1'-11½"	4'-8½"	2'- 8"	2'- 9"	3'- 8"	2'- 6"	6½"	8¼"	4'- 1"
30"	~	~	~	3'-1¾"	4'-0½"	3'-10⅛"	1'-0⅛"	1'- 9"	5'-10"	3'-5½"	4'-8½"	3'- 4"	0'- 8"	1'-11½"	5'-6⅞"	3'- 4"	3'- 6"	4'- 5"	3'- 0"	9½"	10½"	5'-10"
36"	~	~	~	4'-1⅝"	4'-9⅝"	4'-4⅜"	1'-4⅜"	2'-2¼"	6'-6⅛"	3'-8½"	5'-4⅜"	3'-10"	0'-8"	1'-11½"	6'-1¾"	3'-10"	4'- 0"	5'-0"	3'- 9"	1'- 2"	2'- 0"	6'-10"
42"	~	~	~	4'-5"	5'-1½"	5'- 0"	1'- 6"	2'-7⅜"	8'-0½"	4'-6½"	7'-0⅝"	4'- 5"	1'-2½"	2'-0⅝"	8'-4⅜"	4'- 5"	4'- 6"	7'- 0"	4'- 3"	1'- 5"	2'-0½"	7'-8"
48"	~	~	~	5'- 0"	8'-2½"	5'- 7"	1'-9½"	3'-1½"	9'-6½"	5'-1½"	8'-6⅝"	5'- 0"	1'- 6"	2'-7⅜"	9'-5⅝"	5'- 0"	5'- 0"	8'- 2"	5'- 0"	1'-9½"	3'-0½"	9'- 2"
54"	~	~	~	5'- 7"	9'- 4"	6'- 2"	2'- 1"	3'-10½"	10'-6½"	5'-6"	9'-10½"	5'- 7"	1'-5½"	3'-1¼"	10'-6½"	5'- 6"	5'- 6"	9'- 2"	5'- 6"	2'-0½"	3'-6½"	10'- 0"
60"	~	~	~	6'- 2"	1'-4¾"	6'- 9"	2'-4½"	4'-3⅜"	11'-3½"	6'- 2"	2'- 1"	6'-3⅛"	1'-7⅜"	3'-5⅝"	11'-7⅜"	6'- 0"	6'- 0"	10'- 2"	6'- 0"	2'-3½"	4'- 0"	11'- 1"

STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS: GA.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DROP INLETS
(BUILT-IN-PLACE)

SCALE AS SHOWN REV. & REDR. AUG., 1999

DES. — (SUBMITTED) STATE BRIDGE & ROADWAY DESIGN ENGR.
REV.
TRA. — (APPROVED) CHIEF ENGINEER
CHK.

NUMBER 1019A

GENERAL NOTES:
1. SPECIFICATIONS:GEORGIA STANDARD AND CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. ½" EXPANSION JOINT WILL BE REQUIRED WHERE RIGID PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.
3. ALIGNMENT, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL, SEE PLANS FOR ACTUAL PIPE CULVERT REQUIREMENTS.
4. ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN), SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
5. BRICK MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED AS SHOWN, BOTTOM SLAB MAY BE 8" MIN. NON-REINFORCED CONCRETE, 8" BRICK OR 6" MIN. REINFORCED CONCRETE, SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

SHT. 18 OF 19

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN S. HARRIS 21524 — CONFIDENTIAL — CERTIFICATE # 4456 EXP. 12-23-2007

2

JOB NO. 04008141 | FILE NAME | CHKD BY JSH | DRAWN BY JAM | DATE 8-17-26

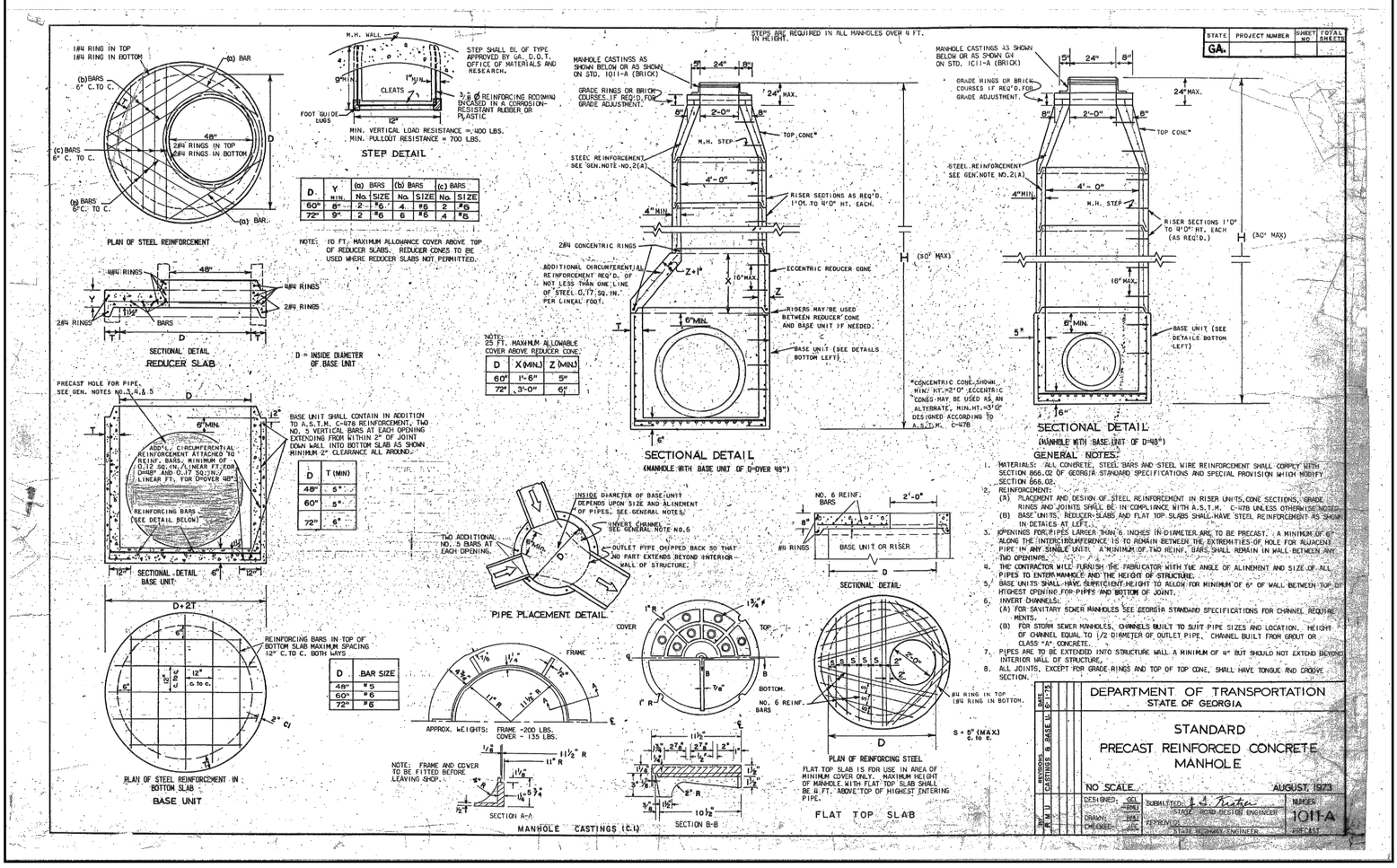
TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.

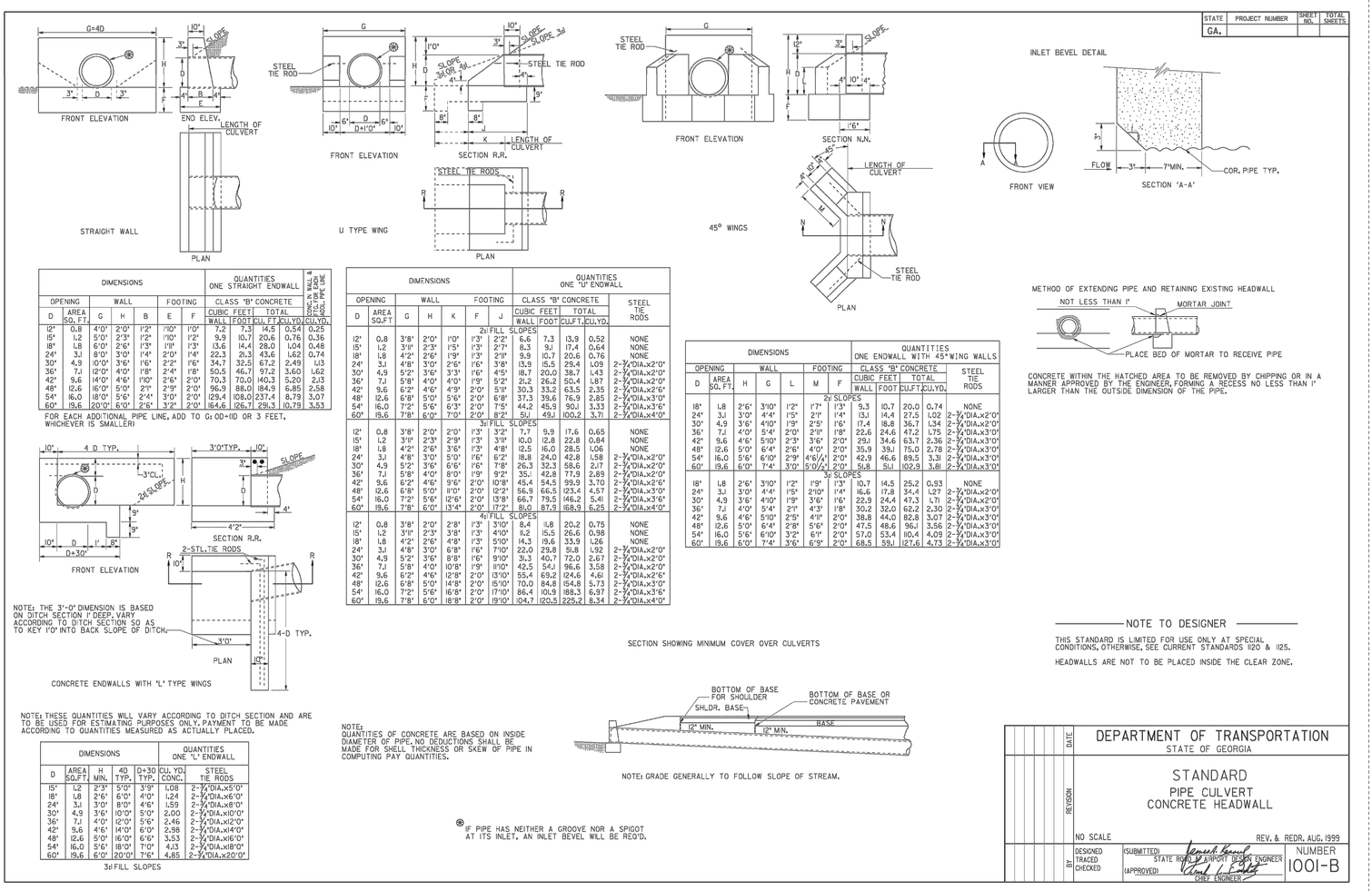
CONSTRUCTION DETAILS

HARRIS GRAY, LLC
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEF006540
924 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

DATE	REVISION	BY
08-17-26	Septic System & Conduits Revised	HG

8





DIMENSIONS						QUANTITIES ONE STRAIGHT ENDWALL			
OPENING		WALL		FOOTING		CLASS "B" CONCRETE			CONC. IN WALL & FOOT. BELOW PIPE LINE
D	AREA SQ. FT.	G	H	E	F	CUBIC FEET WALL	TOTAL FOOT	CU. FT.	CU. YD.
12"	0.8	4'0"	2'0"	1'2"	1'0"	7.2	7.3	14.5	0.54
15"	1.2	5'0"	2'3"	1'2"	1'0"	9.9	10.7	20.6	0.76
18"	1.8	6'0"	2'6"	1'3"	1'0"	13.6	14.4	28.0	1.04
24"	3.1	8'0"	3'0"	1'4"	2'0"	22.3	23.3	43.6	1.62
30"	4.9	10'0"	3'6"	1'6"	2'2"	34.7	32.5	67.2	2.49
36"	7.1	12'0"	4'0"	1'8"	2'4"	50.5	46.7	97.2	3.60
42"	9.6	14'0"	4'6"	1'10"	2'6"	70.3	70.0	140.3	5.20
48"	12.6	16'0"	5'0"	2'1"	2'9"	96.9	88.0	184.9	6.85
54"	16.0	18'0"	5'6"	2'4"	3'0"	129.4	108.0	237.4	8.79
60"	19.6	20'0"	6'0"	2'6"	3'2"	164.6	126.1	290.7	10.79

FOR EACH ADDITIONAL PIPE LINE, ADD TO G: OD+ID OR 3 FEET, WHICHEVER IS SMALLER

DIMENSIONS								QUANTITIES ONE "U" ENDWALL				
OPENING		WALL			FOOTING			CLASS "B" CONCRETE				STEEL TIE RODS
D	AREA SQ.FT	G	H	K	F	J		CUBIC FEET WALL	TOTAL FOOT	CU.FT.	CU.YD.	
2½" FILL SLOPES												
12"	0.8	3'8"	2'0"	1'0"	1'3"	2'2"		6.6	7.3	13.9	0.52	NONE
15"	1.2	3'11"	2'3"	1'5"	1'3"	2'7"		8.3	9.1	17.4	0.64	NONE
18"	1.8	4'2"	2'6"	1'9"	1'3"	2'11"		9.9	10.7	20.6	0.76	NONE
24"	3.1	4'8"	3'0"	2'6"	1'6"	3'8"		13.9	15.5	29.4	1.09	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	3'3"	1'6"	4'5"		18.7	20.0	38.7	1.43	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	4'0"	1'9"	5'2"		24.2	26.2	50.4	1.87	2-¾"DIA.x2'6"
42"	9.6	6'2"	4'6"	4'9"	2'0"	5'11"		30.3	33.2	63.5	2.35	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	5'6"	2'0"	6'8"		37.3	39.6	76.9	2.85	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	6'3"	2'0"	7'5"		44.2	45.9	90.1	3.33	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	7'0"	2'0"	8'2"		50.1	49.1	100.2	3.71	2-¾"DIA.x4'0"
3½" FILL SLOPES												
12"	0.8	3'8"	2'0"	2'0"	1'3"	3'2"		7.7	9.9	17.6	0.65	NONE
15"	1.2	3'11"	2'3"	2'5"	1'3"	3'11"		10.0	12.8	22.8	0.84	NONE
18"	1.8	4'2"	2'6"	3'0"	1'3"	4'8"		12.5	16.0	28.5	1.06	NONE
24"	3.1	4'8"	3'0"	5'0"	1'6"	6'2"		18.8	24.0	42.8	1.58	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	6'6"	1'6"	7'8"		26.3	32.3	58.6	2.17	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	8'0"	1'9"	9'2"		35.1	42.8	77.9	2.89	2-¾"DIA.x2'0"
42"	9.6	6'2"	4'6"	9'6"	2'0"	10'8"		45.4	54.5	99.9	3.70	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	11'0"	2'0"	12'2"		56.9	66.5	123.4	4.57	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	12'6"	2'0"	13'8"		66.7	79.5	146.2	5.41	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	13'4"	2'0"	17'2"		81.0	87.9	168.9	6.25	2-¾"DIA.x4'0"
4½" FILL SLOPES												
12"	0.8	3'8"	2'0"	2'8"	1'3"	3'10"		8.4	11.8	20.2	0.75	NONE
15"	1.2	3'11"	2'3"	3'3"	1'3"	4'10"		11.2	15.3	26.6	0.98	NONE
18"	1.8	4'2"	2'6"	4'8"	1'3"	5'10"		14.3	19.6	33.9	1.26	NONE
24"	3.1	4'8"	3'0"	6'6"	1'6"	7'10"		22.0	29.8	51.8	1.92	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	8'8"	1'6"	9'10"		31.3	40.7	72.0	2.67	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	10'8"	1'9"	11'10"		42.5	54.1	96.6	3.58	2-¾"DIA.x2'0"
42"	9.6	6'2"	4'6"	12'8"	2'0"	13'10"		55.4	69.2	124.6	4.61	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	14'8"	2'0"	15'10"		70.0	84.8	154.8	5.73	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	16'8"	2'0"	17'10"		86.4	101.9	188.3	6.97	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	18'8"	2'0"	19'10"		104.7	120.5	225.2	8.34	2-¾"DIA.x4'0"

DIMENSIONS					QUANTITIES ONE ENDWALL WITH 45°WING WALLS								
OPENING		WALL				FOOTING		CLASS "B" CONCRETE				STEEL TIE RODS
D	AREA SQ. FT.	H	G	L	M	F		CUBIC FEET WALL	TOTAL FOOT	CU.FT.	CU.YD.	
2½ SLOPES												
18"	1.8	2'6"	3'10"	1'2"	1'7"	1'3"		9.3	10.7	20.0	0.74	NONE
24"	3.1	3'0"	4'4"	1'5"	2'1"	1'4"		13.1	14.4	27.5	1.02	2-¾"DIA.x2'0"
30"	4.9	3'6"	4'10"	1'9"	2'5"	1'6"		17.4	18.8	36.1	1.34	2-¾"DIA.x2'0"
36"	7.1	4'0"	5'4"	2'0"	2'11"	1'8"		22.6	24.6	47.2	1.75	2-¾"DIA.x3'0"
42"	9.6	4'6"	5'10"	2'3"	3'6"	2'0"		29.1	34.6	63.7	2.36	2-¾"DIA.x3'0"
48"	12.6	5'0"	6'4"	2'6"	4'0"	2'0"		35.9	39.1	75.0	2.78	2-¾"DIA.x3'0"
54"	16.0	5'6"	6'10"	2'9"	4'6"1/4	2'0"		42.9	46.6	89.5	3.31	2-¾"DIA.x3'0"
60"	19.6	6'0"	7'4"	3'0"	5'0"1/2	2'0"		51.8	50.1	102.9	3.81	2-¾"DIA.x3'0"
3½ SLOPES												
18"	1.8	2'6"	3'10"	1'2"	1'9"	1'3"		10.7	14.5	25.2	0.93	NONE
24"	3.1	3'0"	4'4"	1'5"	2'10"	1'4"		16.6	17.8	34.4	1.27	2-¾"DIA.x2'0"
30"	4.9	3'6"	4'10"	1'9"	3'6"	1'6"		22.9	24.4	47.3	1.71	2-¾"DIA.x2'0"
36"	7.1	4'0"	5'4"	2'0"	4'3"	1'8"		30.2	32.0	62.2	2.30	2-¾"DIA.x3'0"
42"	9.6	4'6"	5'10"	2'3"	4'9"	2'0"		38.8	44.0	82.8	3.07	2-¾"DIA.x3'0"
48"	12.6	5'0"	6'4"	2'8"	5'6"	2'0"		47.5	48.6	96.1	3.56	2-¾"DIA.x3'0"
54"	16.0	5'6"	6'10"	3'2"	6'3"	2'0"		57.0	53.4	110.4	4.09	2-¾"DIA.x3'0"
60"	19.6	6'0"	7'4"	3'6"	6'9"	2'0"		68.5	59.1	127.6	4.73	2-¾"DIA.x3'0"

DIMENSIONS				QUANTITIES ONE "L" ENDWALL	
D	AREA SQ.FT.	H MIN.	4D TYP.	D+30 TYP.	CU. YD. CONC.	STEEL TIE RODS
15"	1.2	2'6"	5'0"	3'0"	1.08	2-¾"DIA.x5'0"
18"	1.8	2'6"	6'0"	4'0"	1.24	2-¾"DIA.x6'0"
24"	3.1	3'0"	8'0"	4'6"	1.59	2-¾"DIA.x8'0"
30"	4.9	3'6"	10'0"	5'0"	2.00	2-¾"DIA.x10'0"
36"	7.1	4'0"	12'0"	5'6"	2.46	2-¾"DIA.x12'0"
42"	9.6	4'6"	14'0"	6'0"	2.98	2-¾"DIA.x14'0"
48"	12.6	5'0"	16'0"	6'6"	3.53	2-¾"DIA.x16'0"
54"	16.0	5'6"	18'0"	7'0"	4.13	2-¾"DIA.x18'0"
60"	19.6	6'0"	20'0"	7'6"	4.85	2-¾"DIA.x20'0"

3d FILL SLOPES

IF PIPE HAS NEITHER A GROOVE NOR A SPIGOT AT ITS INLET, AN INLET BEVEL WILL BE REQ'D.

SHT. 19 OF 19

GEORGIA REGISTERED PROFESSIONAL ENGINEER SHANE M. HARRIS 027529 CERTIFICATE OF AUTHORIZATION EXP. 02/23/2007

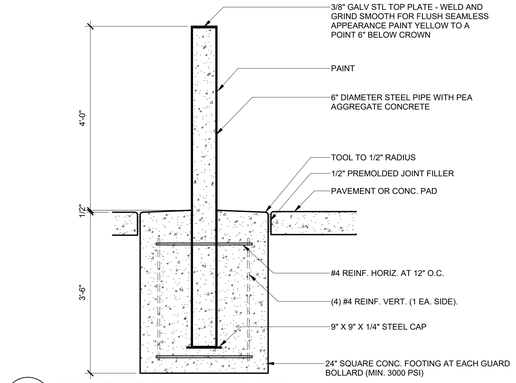
JOB NO. 04008011 | FILE NAME: 1001-B | CHKD BY: JAM | DRAWN BY: SDL | DATE: 8-17-26

TROUP COUNTY
FIRE STATION @ BURKES CHAPEL RD.

CONSTRUCTION DETAILS

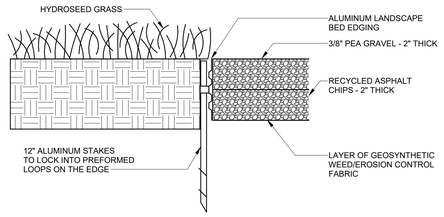
HARRIS GRAY, LLC
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO: PEF006540
924 THIRD AVENUE • WEST POINT, GEORGIA 31833
PHONE: (706) 645 - 5885

DATE	REVISION	BY
08-17-26	Septic System & Conduits Revised	HG



1 SP1.2 CONCRETE GUARD BOLLARD

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

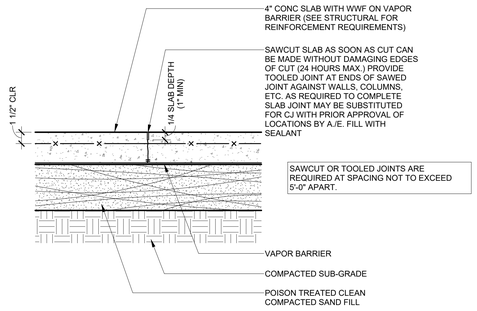


NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. 16'-0" SECTIONS TO INCLUDE (5) 12" ALUMINUM STAKES.
3. COMPACT GRADE ADJACENT TO EDGING TO AVOID SETTLING. FINISH GRADE TO BE 1/2" (1.3 cm) BELOW TOP OF EDGING.
4. CORNERS - CUT BASE EDGING UP HALF WAY AND FORM A CONTINUOUS CORNER.

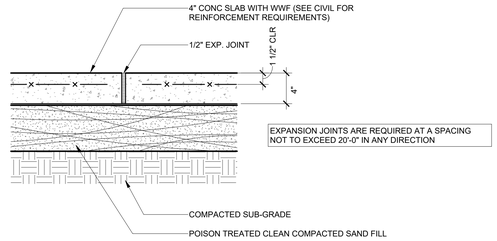
2 SP1.2 NOT USED

SCALE: 3" = 1'-0"



3 SP1.2 TYPICAL SAW JOINT

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



4 SP1.2 TYPICAL EXPANSION JOINT

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

5 SP1.2 TYPICAL TOOLED JOINT

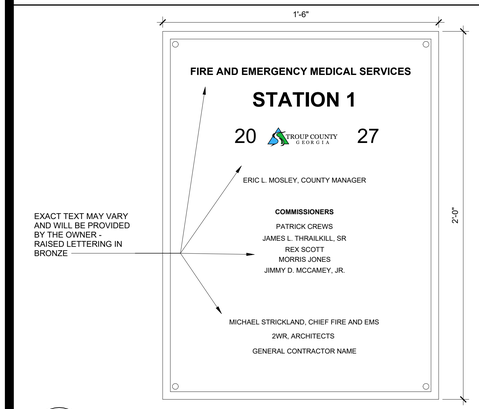
SCALE: 1 1/2" = 1'-0"

6 SP1.2 THICKENED TOOLED EDGE DETAIL

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

7 SP1.2 TYPICAL CONSTRUCTION JOINT

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



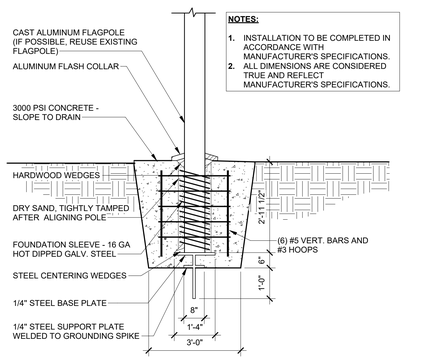
8 SP1.2 BRONZE DEDICATION PLAQUE BY OWNER

SCALE: 3" = 1'-0" PROVIDED BY OWNER - INSTALLED BY CONTRACTOR



9 SP1.2 PLAQUE LOGO BY OWNER

SCALE: 1 1/2" = 1'-0" PROVIDED BY OWNER - INSTALLED BY CONTRACTOR



10 SP1.2 FLAG POLE BASE

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

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08/18/2026

TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

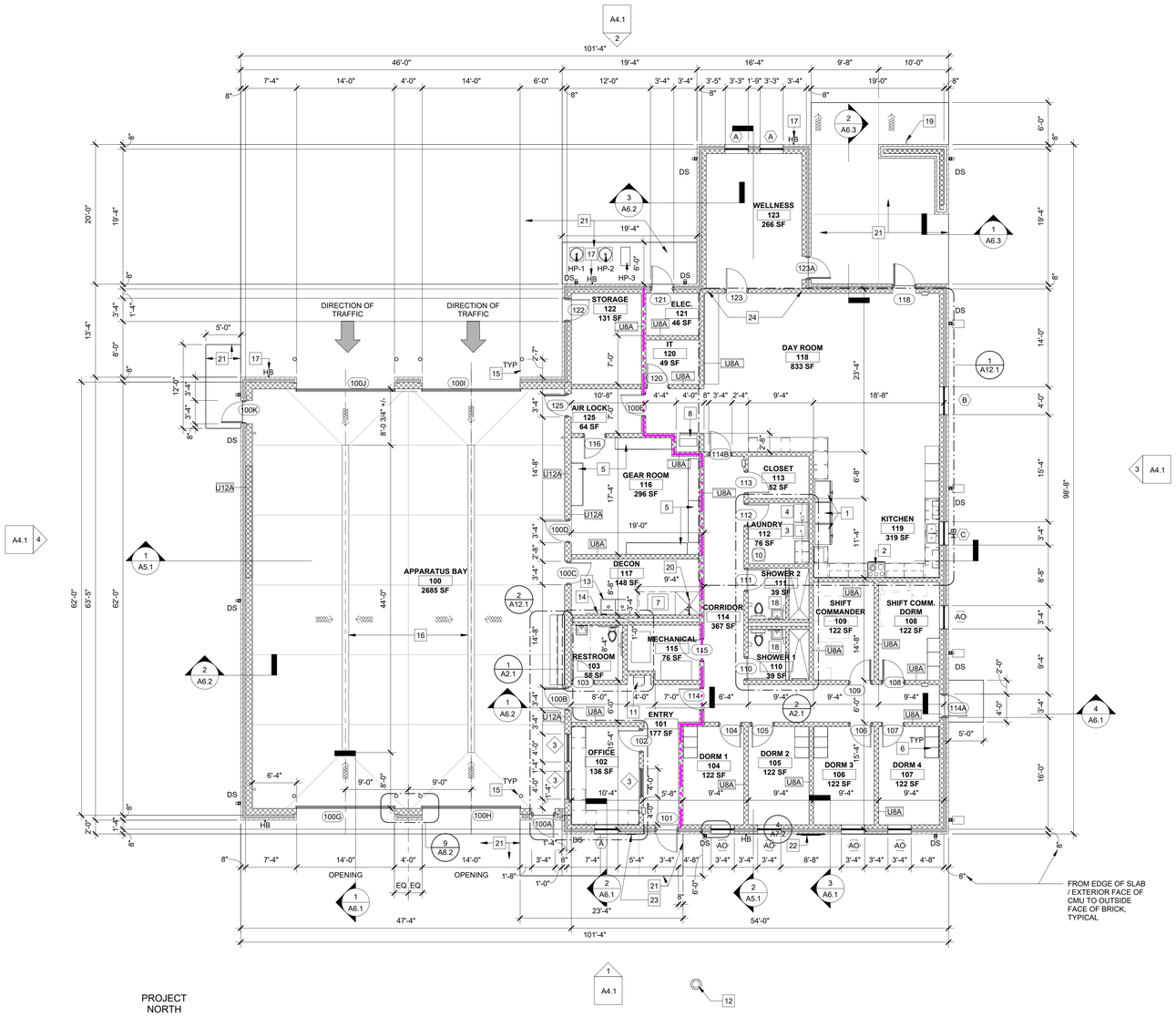
Project No.: 26-00013
Date: 8/18/2026
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Revisions:

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SITE DETAILS

SP1.2

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PROJECT NORTH

1 TWO BAY FLOOR PLAN

1/8" = 1'-0"

7,598 SQUARE FEET ENCLOSED

GENERAL CONSTRUCTION NOTES

A. DIMENSIONS TO NEW CONSTRUCTION ARE MEASURED FROM FACE OF STUD OR FACE OF MASONRY, TYP (UNO). DIMENSIONS TO EXISTING ELEMENTS ARE MEASURED FROM FINISH FACE, TYP (UNO).

B. REFER TO LIFE SAFETY PLANS FOR LOCATIONS OF FIRE AND SMOKE WALLS AND COMPARTMENTATION DESIGNATIONS AND FOR CONSTRUCTION INFORMATION RELATED TO SMOKE WALLS.

C. REFER TO FINISH PLAN FOR FREE STANDING FURNISHINGS.

D. REFER TO ENLARGED TOILET PLANS FOR DIMENSIONS IN TOILET ROOM AREAS.

E. REFER TO SHEET A9.1 FOR REFLECTED CEILING PLANS AND TYPICAL CEILING NOTES.

F. ALL INTERIOR CMU WALLS ARE 8 X 8 X 16 EXCEPT WHERE ESPECIFICALLY NOTED OR INDICATED OTHERWISE. REFER TO WALL SECTION, DETAILS, AND STRUCTURAL DRAWINGS FOR DESIGNATION OR EXTERIOR CMU WALLS. CONTACT ARCHITECT PRIOR TO PROCEEDING WITH WORK IF CONFLICTS EXISTS.

G. PROVIDE BULL NOSE CMU AT ALL INTERIOR EXPOSED OUTSIDE CORNER CONDITIONS, INCLUDING DOOR, WINDOW JAMBS, AND SILLS.

H. PAINT ALL EXPOSED STRUCTURE, DUCTWORK, CABLING, CONDUIT, AND SPRINKLERS IN AREAS WITHOUT CEILINGS AS DIRECTED BY ARCHITECT.

I. REFER TO BUILDING ELEVATIONS FOR ALL BRICK EXPANSION JOINTS (BEJ) LOCATIONS NOT INDICATED ON PLANS. CMU CONTROL JOINTS OCCUR AT BEJ LOCATIONS.

KEYED CONSTRUCTION NOTES

* = APPLIANCES CONTRACTOR PROVIDED AND INSTALLED

1 *SHIFT REFRIGERATOR / FREEZER - TYP. OF 3. SEE SPECIFICATIONS

2 *OVEN / RANGE / HOOD / FIRE SUPPRESSION SYSTEM. SEE SPECIFICATIONS.

3 *RESIDENTIAL WASHER. SEE SPECIFICATIONS.

4 *RESIDENTIAL DRYER SEE SPECIFICATIONS.

5 *GEAR LOCKER (18 TOTAL). SEE SPECIFICATIONS.

6 *WARDROBE LOCKER (3 PER DORM ROOM). SEE SPECIFICATIONS

7 *GEAR EXTRACTOR ON THICKENED 8" SLAB - SEE SPECIFICATIONS

8 *ICE MAKER. SEE SPECIFICATIONS

9 PROVIDE EYE WASH. COORDINATE WITH PLUMBING DRAWINGS.

10 PROVIDE ELECTRIC WATER HEATER. COORDINATE WITH PLUMBING AND ELECTRICAL DRAWINGS.

11 PROVIDE SINGLE ELECTRIC WATER COOLER WITH BOTTLE FILLER. COORDINATE WITH PLUMBING AND ELECTRICAL DRAWINGS.

12 PROVIDE 30' H FLAG POLE.

13 PROVIDE UTILITY SINK. COORDINATE WITH PLUMBING.

14 PROVIDE MOP AND BROOM HOLDER.

15 PROVIDE CONCRETE FILLED PIPE COLUMN - GUARD BOLLARD. SEE DETAILS

16 CONTINUOUS TRENCH DRAIN SYSTEM. SLOPE CONCRETE 1/8" / FT MIN. TO DRAIN

17 HOSE BIBB. COORDINATE WITH PLUMBING DRAWINGS.

18 RECESSED SLAB FOR TILE FLOOR.

19 PROVIDE GAS COCK VALVE FOR OWNER SUPPLIED AND INSTALLED GAS GRILL.

20 EMERGENCY SHOWER

21 COORDINATE EXTERIOR CIVIL CONCRETE SIDEWALKS AND CONCRETE DRIVE WITH CIVIL DOCUMENTS - ARCHITECTURAL SIDEWALKS ARE 4" SLABS PER SITE DETAILS ON SHEET SP1.2, SEE CIVIL PLANS FOR CONCRETE DRIVE PROFILE

22 4'-0" DIA. 14 GAUGE ALUMINUM SIGNAGE ON 1" STANDOFFS - OWNER WILL PROVIDE ARTWORK FOR 4 COLOR PAINTED LOGO - SIGNAGE BY GC.

23 18" X 24" CAST BRONZE DEDICATION PLAQUE BY OWNER

24 THIS PARTITION GOES TO THE ROOF DECK

25 PROVIDE SPLASH BLOCKS AT ALL DOWNSPOUT LOCATIONS

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TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

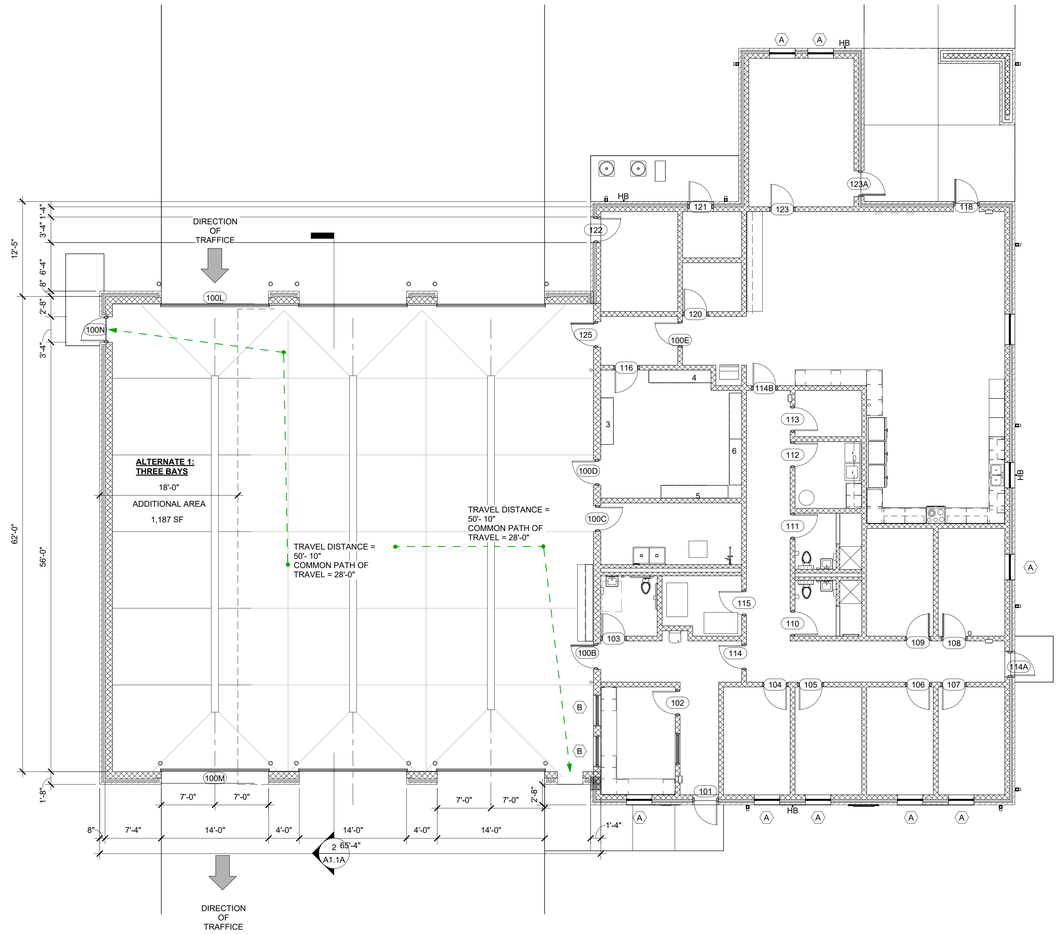
Project No.: 26-00013
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Checked by: WAG
Revisions:

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2-BAY FLOOR PLAN

A1.1

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1 GC NOTE: ON ALTERNATE 1: THREE APPARATUS BAYS - PROVIDE WOOD FRAME PARTITION WITHIN TRUSS LOCATION AT HIGH ROOF OVER APPARATUS BAY WITH GYPSUM SHEATHING ON ONE SIDE TO FORM DRAFTSTOP FOR ATTIC OVER APPARATUS BAY - PARTITION SHALL DIVIDE ATTIC INTO AREAS UNDER 3,000 SF.

1 A1.1A 3 BAY FLOOR PLAN - ALTERNATE 1

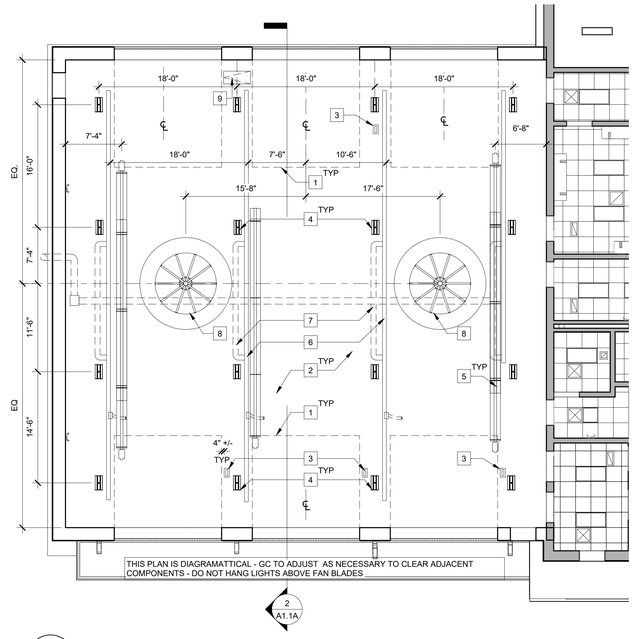
SCALE: 1/8" = 1'-0"

TOTAL 8,801 SQUARE FEET ENCLOSED

LIST OF ALTERNATES:

ALTERNATE 1:
EXPAND THE APPARATUS BAY TO INCLUDE THREE BAYS AS SHOWN

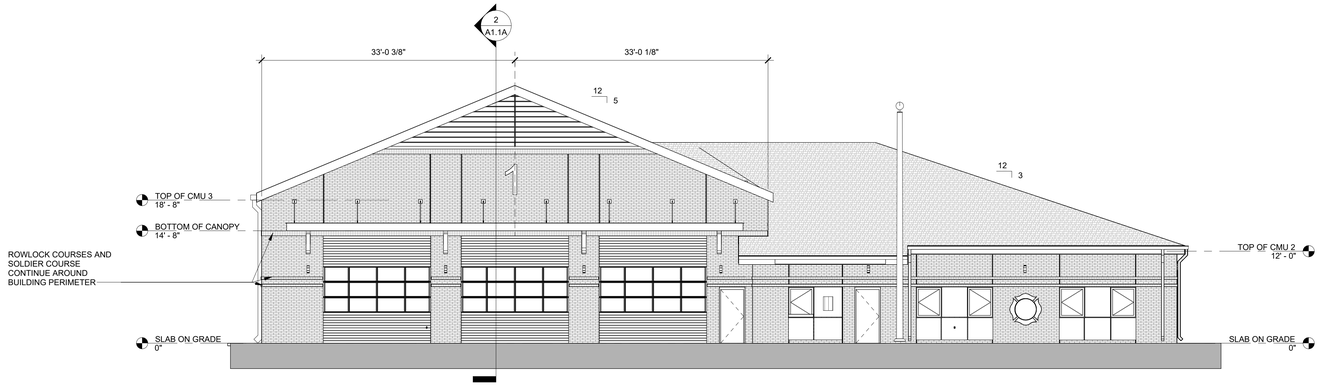
NOTE TO BIDDERS:
THESE PLANS WERE PREPARED AS A PROTOTYPE WITH ADDITIONAL ALTERNATES - THE MEP DOCUMENTS MAY STILL DETAIL ADDITIONAL MISNUMBERED ALTERNATES. THE SHIFT COMMANDER'S OFFICE AND DORM ARE TO BE INCLUDED WITHIN THE BASE BID



7 A1.1A RCP - ALTERNATE 1

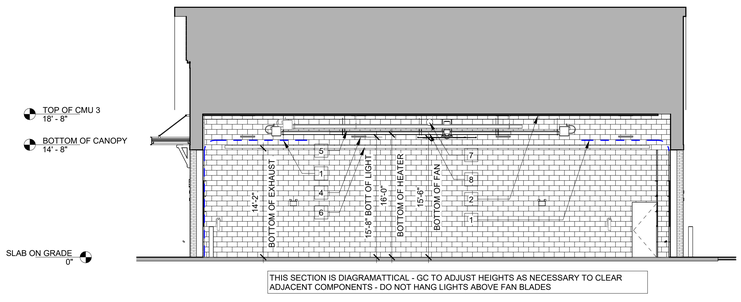
SCALE: 1/8" = 1'-0"

1 LINE OF OVERHEAD GARAGE DOOR WHEN FULLY OPENED
2 PAINTED SOFFIT - P-6
3 CEILING MOUNTED ELECTRIC CORD REELS
4 POST MOUNTED HIGH BAY LED FIXTURES - SEE ELECTRICAL
5 INFRARED RADIANT HEATER - SEE MECHANICAL
6 MAGNAGRIP EXHAUST REMOVAL SYSTEM
7 EXHAUST DUCTWORK (UP HIGH) FROM EXHAUST REMOVAL SYSTEM
8 8' POWER FOIL CEILING FAN (HANG AT OR ABOVE LIGHT FIXTURES)
9 ATTIC ACCESS PANEL



4 A1.1A SOUTH ELEVATION 3 BAY STATION

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



2 A1.1A SECTION / HEIGHT DIAGRAM

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

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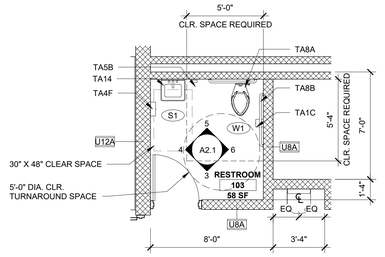
Project No.:	26-00013
Date:	8/18/2026
Drawn by:	WAG
Checked by:	WAG
Revisions:	

No.	Date	Description

3-BAY FLOOR PLAN

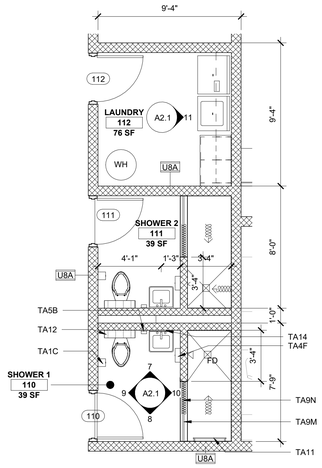
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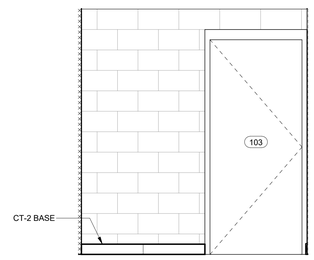
1 A2.1 ENLARGED PLAN - ROOM 103

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



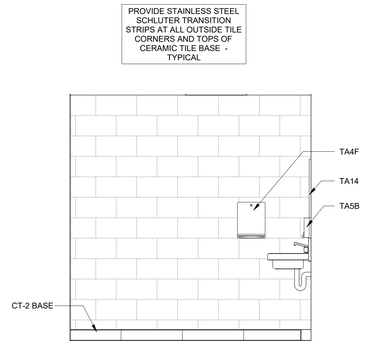
2 A2.1 ENLARGED PLAN - ROOM 110 AND 111

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



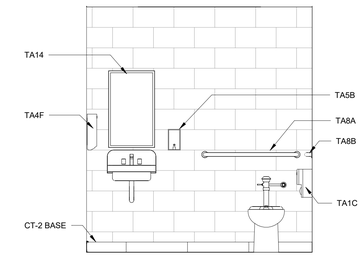
3 A2.1 ROOM 103 SOUTH ELEVATION

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



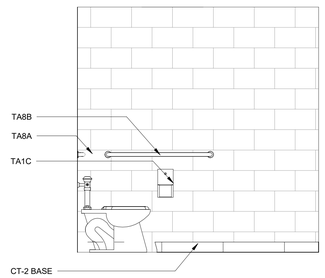
4 A2.1 ROOM 103 WEST ELEVATION

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



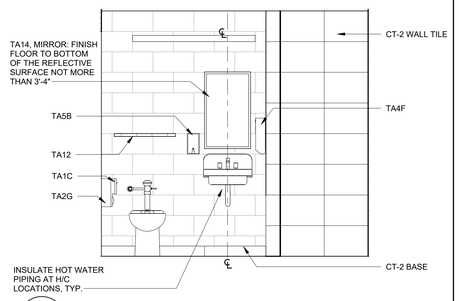
5 A2.1 ROOM 103 NORTH ELEVATION

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



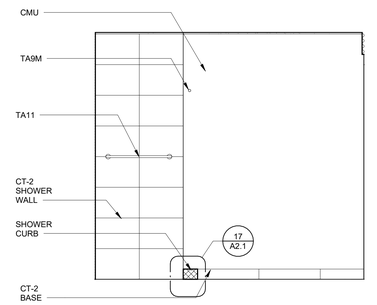
6 A2.1 ROOM 103 EAST ELEVATION

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



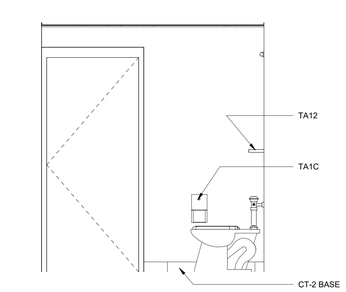
7 A2.1 ROOM 110 NORTH ELEVATION

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



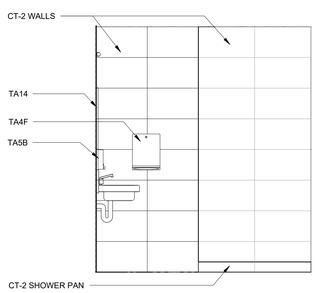
8 A2.1 ROOM 110 SOUTH ELEVATION

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



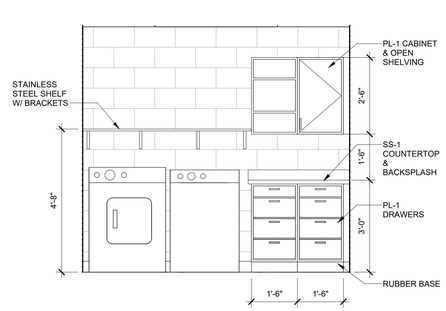
9 A2.1 ROOM 110 WEST ELEVATION

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



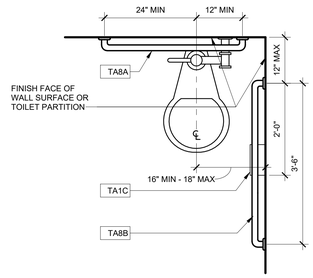
10 A2.1 ROOM 110 EAST ELEVATION

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



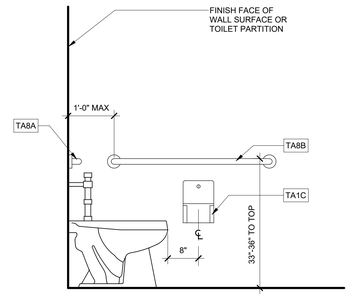
11 A2.1 ROOM 112 LAUNDRY EAST ELEVATION

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



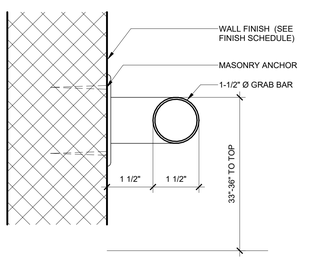
12 A2.1 TYPICAL ADA TOILET PLAN - W1

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



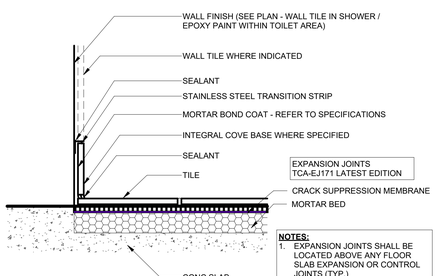
13 A2.1 ADA TOILET ELEVATION TYP.

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



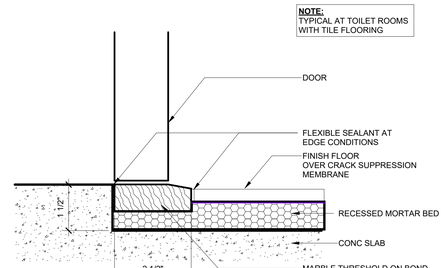
14 A2.1 GRAB BAR MOUNTING, TYP.

SCALE: 6" = 1'-0"



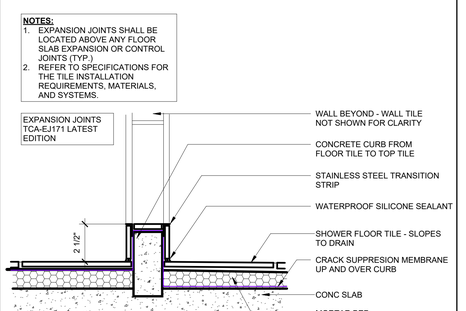
15 A2.1 TILE COVE BASE

SCALE: 3" = 1'-0"



16 A2.1 MARBLE TILE THRESHOLD

SCALE: 6" = 1'-0"



17 A2.1 SHOWER CURB DETAIL

SCALE: 3" = 1'-0"

GENERAL NOTES

1. **COORDINATE WALL FINISHES (TILE, ETC) WITH ALL WALL MOUNTED ACCESSORIES PRIOR TO FINISH INSTALLATION. WHERE ACCESSORIES ARE MOUNTED OVER A FINISH TRANSITION WITH A VARIATION IN THICKNESS, ADJUST ACCORDING TO THE FOLLOWING:**
   OPTION 1 - OMIT FINISH BEHIND ACCESSORY. INSTALL FINISH FLUSH TO EDGES OF ACCESSORY AND PROVIDE WORKMANLIKE EDGES AND TRANSITIONS.
   OPTION 2 - PROVIDE PLYWOOD SHIM BEHIND ACCESSORY TO FLUSH WITH FINISH MATERIAL. SIZE TO BE 1/2" INSET ON ALL SIDES OF ACCESSORY AND PAINT TO MATCH WALL COLOR.
2. **VERIFY ALL TOILET ACCESSORIES WITH OWNER PRIOR TO ORDER AND INSTALLATION. ITEMS MAY NEED TO BE COORDINATED WITH CAMPUS OR CUSTODIAL SERVICE STANDARDS THAT ARE CURRENT AT THE DATE OF INSTALL.**
3. SHOULD ANY DISCREPANCY BE FOUND BETWEEN ITEMS NOTED IN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CONTRACTOR SHALL BRING ITEMS TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING, FABRICATING OR INSTALLING.
4. IF A CONFLICT BETWEEN ANY TOILET ACCESSORIES OCCURS, NOTIFY ARCHITECT FOR DIRECTION PRIOR TO INSTALLATION.
5. INSULATE ALL EXPOSED HOT WATER PIPING.
6. MIRRORS SHALL BE CENTERED OVER SINKS, TYP.
7. ARRANGE ALL BATHROOM ACCESSORIES TO PROVIDE GOOD WORKING CLEARANCES FOR ACCESS TO LOCKS AND FULLY OPEN REFILL POSITIONS.

RE: TOILET ELEVATIONS

1. TYPICAL ELEVATIONS SHOW LOCATION AND MOUNTING HEIGHTS OF TOILET FIXTURES AND ACCESSORIES.
2. DIMENSIONS LOCATING TOILET ACCESSORIES, INCLUDING TOILET PARTITIONS AND URINAL SCREENS, ARE TYPICAL, UNO.
3. WHERE SPECIFIED, TILE SHALL BE CENTERED ON WALL, UNO.

RE: TOILET PLANS

1. ENLARGED TOILET PLANS SHOW LOCATION OF TOILET FIXTURES, ACCESSORIES, AND NOTES. DETAILS INDICATE ACCESSORIES WHICH ARE TO BE PROVIDED AT EACH FIXTURE / STALL. SEE 1/8" FLOOR PLANS FOR ALL INFORMATION REGARDING WALL TYPES, CONSTRUCTION NOTES AND ROOM FINISHES. DIMENSIONS LOCATING TOILET ACCESSORIES AND SCREENS ARE TYPICAL, UNO.
2. **ALL DIMENSIONS SHOWN ON THIS SHEET ARE TO FINISH FACE, UNO.**

TOILET ACCESSORY SCHEDULE

ITEMS REPRESENT BASIS OF DESIGN ONLY. VERIFY WITH OWNER ON ALL ITEMS TO BE PROVIDED AND COORDINATE WITH ANY ADDITIONAL OWNER FURNISHED ITEMS.

MARK	ITEM DESCRIPTION	HANDICAP ACCESSIBLE MOUNTING HEIGHTS
TA1C	SURFACE MTD. TOILET TISSUE DISPENSER (B-4288)	19" TO CENTER
TA4F	SURFACE MOUNTED PAPER TOWEL DISPENSER (B-262)	40" TO PAPER
TA5B	SURFACE MOUNTED SOAP DISPENSER (B-4112)	36" TO BOTTOM OF UNIT
TA14	FIXED MIRROR - 18" x 36" (B-290)	40" TO BOTTOM OF MIRROR
TA8A	36" GRAB BAR (B-6806x36)	SEE DETAILS
TA8B	42" GRAB BAR (B-6806x42)	SEE DETAILS
TA8F	CORNER GRAB BAR (B-6861)	SEE DETAILS
TA9F	HEAVY DUTY STAINLESS STEEL TOWEL BAR (B-205)	48" TO CENTER
TA9M	SHOWER CURTAIN ROD (B-6107x48)	COORD. HT. WITH CURTAIN
TA9N	VINYL SHOWER CURTAIN (204-3)	
TA9R	STAINLESS STEEL SHOWER CURTAIN HOOK (204-1)	
TA10B	COAT HOOK / WALL BUMPER (B-212)	55" AFF
TA11	SURFACE MOUNTED TOWEL SHELF WITH TOWEL BAR (B-676X24)	
TA12	SURFACE MOUNTED TOILETRY SHELF (B-683X24)	

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STATE OF GEORGIA
EMILY ALBRIGHT FLOURNOY
CERTIFICATE NO. RA 018245
REGISTERED ARCHITECT
08/18/2026

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA
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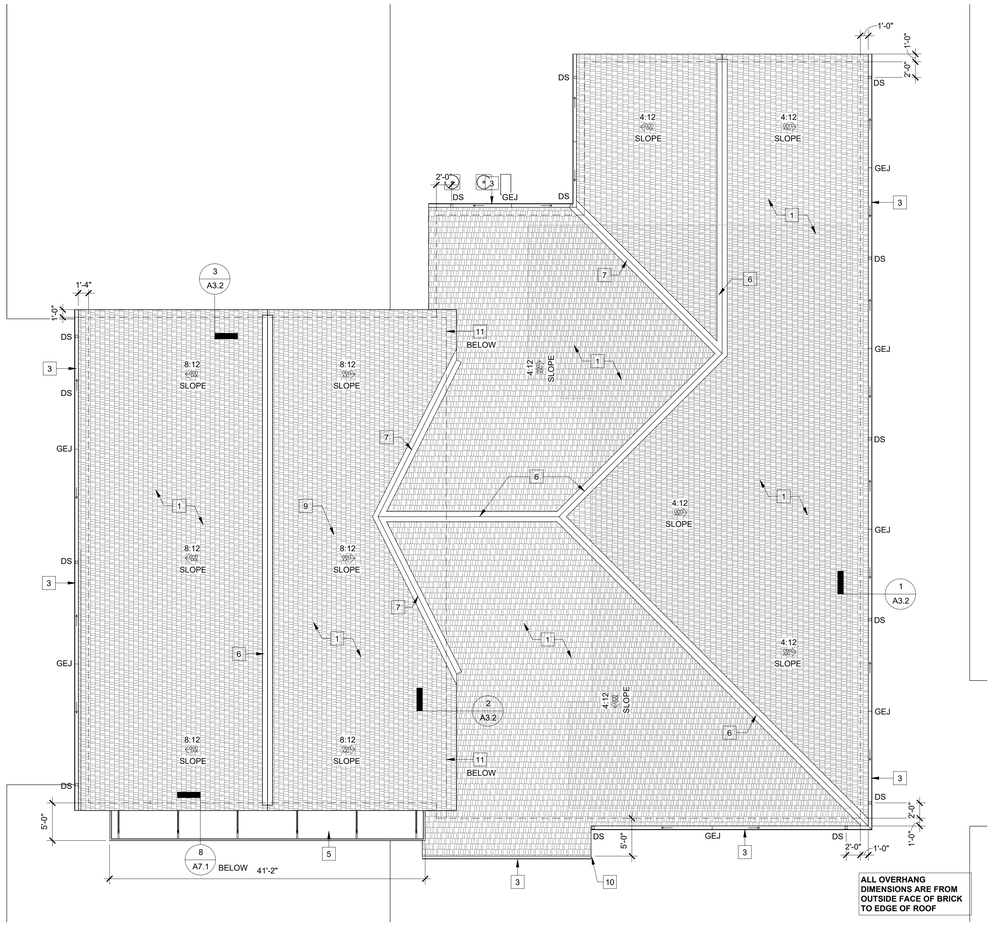
Project No.: 26-00013
Date: 8/18/2026
Drawn by: JW
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ENLARGED TOILET PLANS AND DETAILS

A2.1

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1 A3.1 TWO BAY - ROOF PLAN

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

GENERAL ROOF NOTES

A. SEE MECHANICAL, PLUMBING, AND STRUCTURAL SHEETS FOR LOCATION OF AND COORDINATION OF RESPECTIVE WORK. NOTIFY ARCHITECT IN CASE OF A CONFLICT PRIOR TO BEGINNING WORK.

B. SEE PLUMBING/MECHANICAL DRAWINGS FOR NEW ROOF PENETRATION LOCATIONS AND SIZES.

C. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF INTAKE AND EXHAUST LOUVERS OR FANS.

D. TRUSS SUPPLIER IS RESPONSIBLE FOR TRUSS LAYOUT. ADDITIONAL ROOF TRUSSES SHALL BE ADDED AS REQUIRED. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL ROOF FRAMING. NOTIFY ARCHITECT IN CASE OF A CONFLICT.

E. ALL CONTINUOUS MTL CLEATS OR REVERSE MTL CLEATS SHALL BE A MIN (1) GAUGE HEAVIER THAN SPECIFIED THICKNESS OF MTL FLASHING.

F. ALL ROOFING AND SHEET MTL FLASHING WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT PRACTICES OF SMACNA AND NRCA.

KEYED ROOF NOTES

1. ARCHITECTURAL ASPHALT ROOF SHINGLES ON UNDERLAYMENT. PROVIDE 3/4" PLYWOOD ON R-25 INSULATION - (2) LAYERS OF POLYISO INSULATION WITH STAGGERED JOINTS AND TAPE ALL SEAMS ON SECOND LAYER
2. PROVIDE KICK-OUT FLASHING.
3. PREFINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
4. LINE OF BUILDING BELOW.
5. PREFINISHED METAL CANOPY SYSTEM. ALIGN WITH CENTER LINE OF CANOPY WITH CENTER LINE OF BUILDING ELEVATION.
6. ROOF RIDGE.
7. ROOF VALLEY.
8. NOT USED.
9. GC NOTE: ON ALTERNATE 4: THREE APPARATUS BAYS - PROVIDE WOOD FRAME PARTITION WITHIN TRUSS LOCATION AT HIGH ROOF OVER APPARATUS BAY WITH GYPSUM SHEATHING ON ONE SIDE TO FORM DRAFTSTOP FOR ATTIC OVER APPARATUS BAY - PARTITION SHALL DIVIDE ATTIC INTO AREAS UNDER 3,000 SF.
10. PROVIDE SCUPPER AT END OF GUTTER.
11. PROVIDE THRU-WALL STEPPED FLASHING WHERE MASONRY INTERSECTS THE SLOPING ROOF. STEPPED FLASHING IN HIGHER COURSES SHOULD OVERLAP THE LAYER OF STEPPED FLASHING BELOW BY 4" MINIMUM. SEE DETAIL 2/A3.2 SIMILAR.
12. THIS AREA REPRESENTS THE OPEN ATTIC AREA OF 2,782 SF - NO ADDITIONAL DRAFT STOP REQUIRED

ROOF LEGEND

VTR	VTR (REFER TO PLUMBING)
RD	ROOF DRAIN
O.F.	OVERFLOW ROOF DRAIN
EF	EXHAUST FAN (REFER TO MECHANICAL)
OS	OVERFLOW SCUPPER
DS	DOWNSPOUT
EJ	ROOF EXPANSION JOINT
0'-0"	ELEVATION OF RAISED ELEMENTS
12 / 3	SLOPE
4:12	SLOPE TO DRAIN

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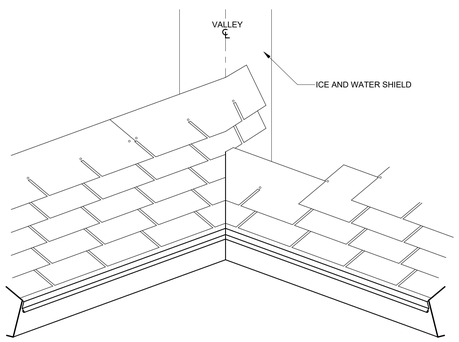
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ROOF PLAN

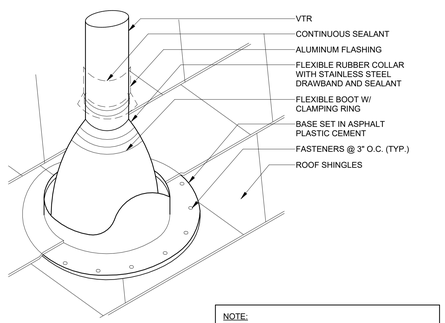
A3.1



NOTE:
CLOSED-CUT VALLEY APPLICATION IS REQUIRED. LINE VALLEY BY CENTERING 36" WIDE SELF ADHERING ICE AND WATER SHIELD OR ITS EQUIVALENT (APPLY DIRECTLY TO DECK OR BY CENTERING 36" WIDE 50# OR HEAVIET ROLL ROOFING IN THE VALLEY (OVER STANDARD ROOFING UNDERLAYMENT.) APPLICATION OF SHINGLES IN VALLEY IS DONE BY OVERLAPPING AND TRIMMING THE SHINGLES FROM ADJOINING ROOF AREAS AS FOLLOWS: LAY FIRST SHINGLE COURSE ALONG EAVES OF FIRST ROOF AREA AND ACROSS VALLEY INTO THE ADJOINING ROOF AREA AT LEAST 12" PRESS SHINGLES WELL INTO VALLEY, FOLLOW STANDARD FASTENING INSTRUCTIONS EXCEPT THAT NO FASTENERS IS TO BE CLOSER THAN 6" TO VALLEY CENTERLINE. FOLLOW THE SAME PROCEDURE FOR SUCCEEDING COURSES APPLY FIRST COURSE OF SHINGLES ALONG EAVES OF ADJOINING ROOF AREA EXTENDING IT OVER PREVIOUSLY APPLIED SHINGLES AND NEATLY TRIM 1" BACK FROM CENTERLINE OF VALLEY. CUT 1" DIAGONALLY OF UPPER CORNER OF EACH TRIMMED SHINGLE TO DIRECT WATER INTO VALLEY. FOLLOW SAME PROCEDURE FROM SUCCEEDING COURSES OF PER RESPECTIVE MFR RECOMMENDATIONS. IMPORTANT - IN COLD WEATHER (50 DEGREES FAHRENHEIT OR BELOW) STORE SHINGLES IN A HEATED AREA PRIOR TO APPLICATION TO ASSIST IN FORMING PROPERLY.

2 A3.1 SHINGLE VALLEY INSTALLATION

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

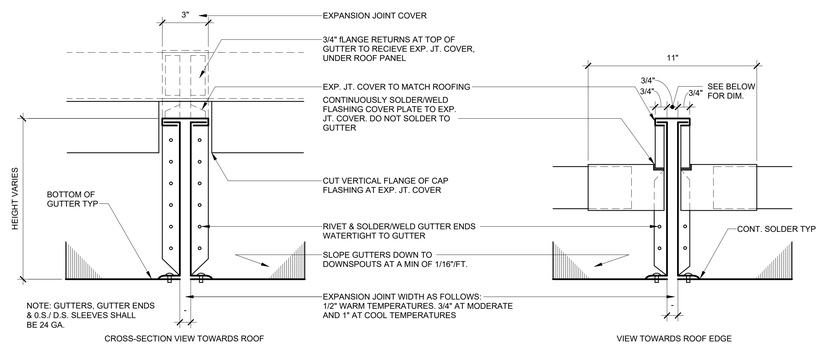


NOTE:

1. PROVIDE CLEARANCE FOR FASTENERS CONNECTING THE FLASHING AND ALLOWANCE SHALL BE PROVIDED FOR THERMAL MOVEMENT OF ROOF AND BASE FLASHING PER MANUF. RECOMMENDATIONS.
2. VTR STACK SHALL BE PAINTED TO MATCH ROOF COLOR (TYP). CONTRACTOR SHALL SUBMIT PAINT MFRS LITERATURE VERIFYING PAINT IS COMPATIBLE W/ VTR MATERIAL.

3 A3.1 SHINGLE VTR DETAIL

SCALE: N.T.S.



CROSS-SECTION VIEW TOWARDS ROOF

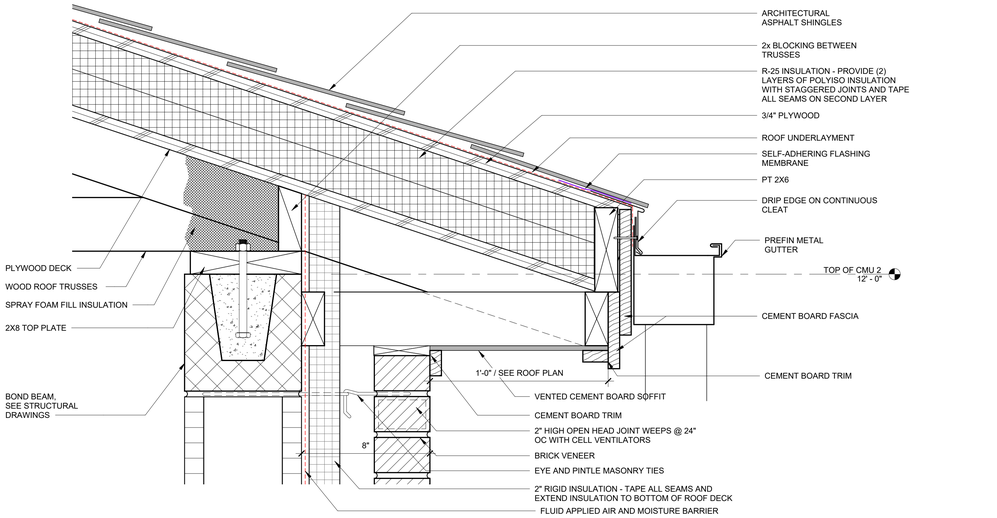
VIEW TOWARDS ROOF EDGE

4 A3.1 GUTTER EXPANSION JOINT DETAIL

SCALE: 3" = 1'-0"

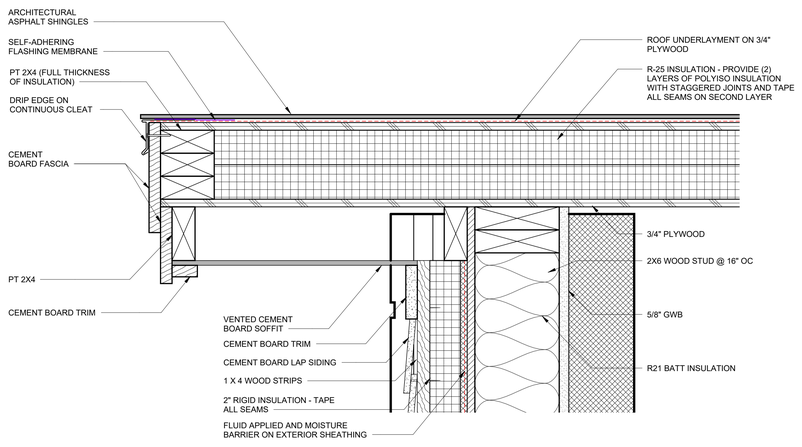
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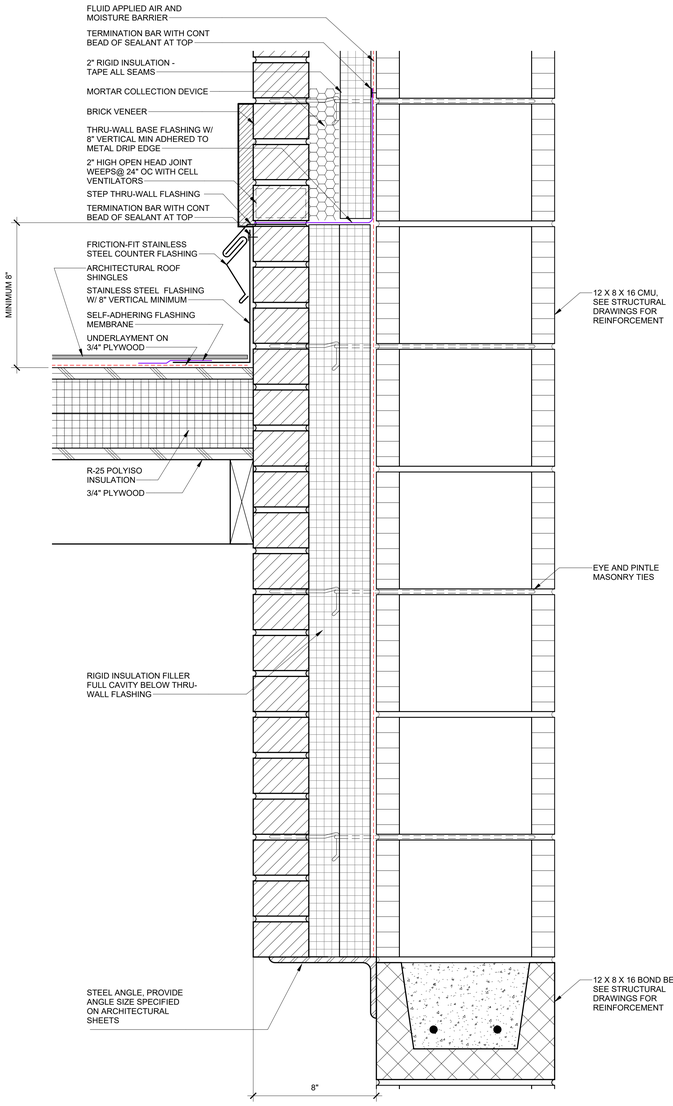
1 / A3.2 ROOF DETAIL

SCALE: 3" = 1'-0"



3 / A3.2 RAKE DETAIL

SCALE: 3" = 1'-0"



2 / A3.2 ROOF FLASHING DETAIL

SCALE: 3" = 1'-0"

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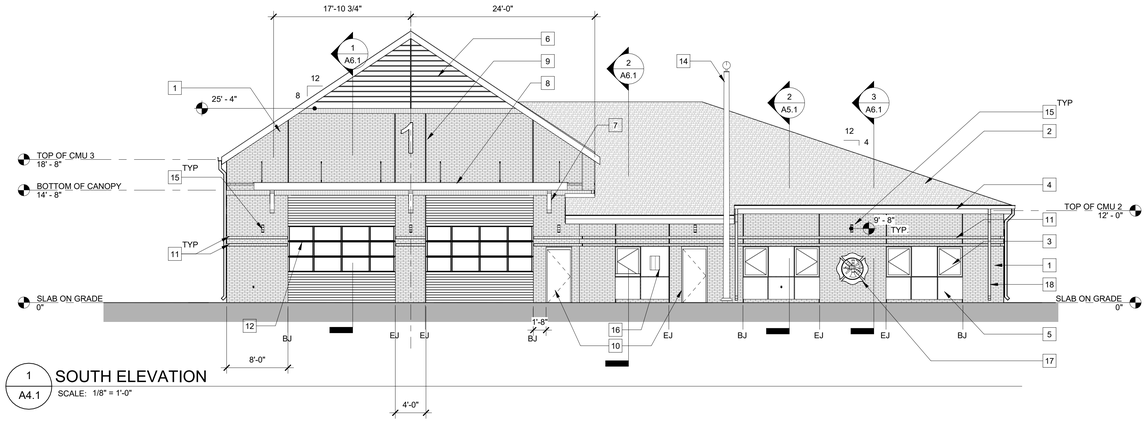
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ROOF DETAILS

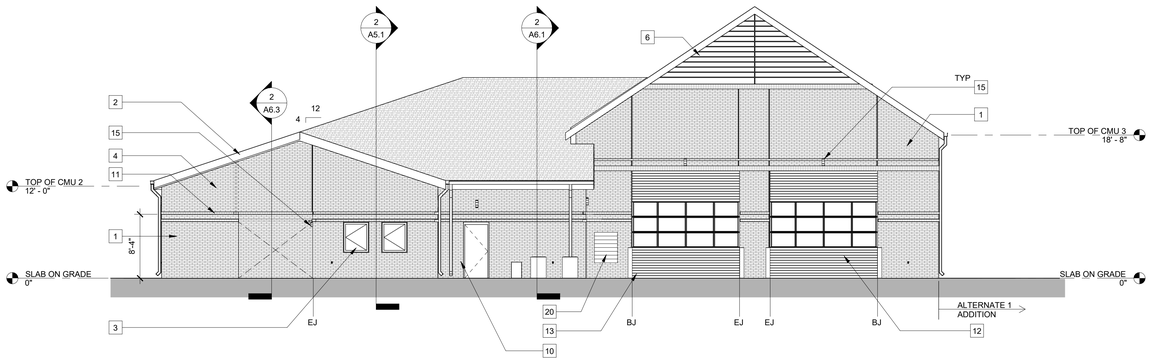
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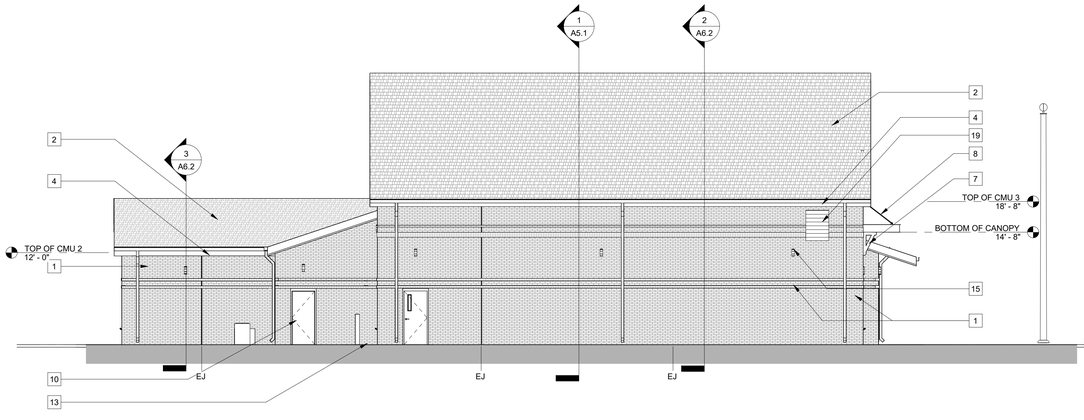
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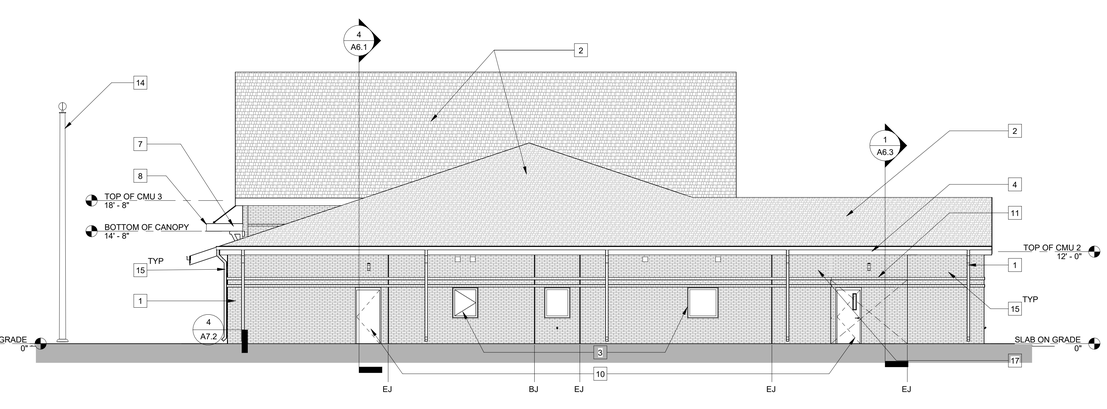
1 A4.1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



2 A4.1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



4 A4.1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



3 A4.1 EAST ELEVATION
SCALE: 1/8" = 1'-0"

KEYED NOTES - THIS PAGE ONLY

1	4" BRICK VENEER - SIMILAR TO COLUMBUS BRICK "VIRGINIAN" MODULAR WITH MAGNOLIA BUFF MORTAR
2	ARCHITECTURAL ROOF SHINGLES - COLOR: WEATHERED WOOD
3	ALUMINUM STOREFRONT WINDOW GLAZING - 1" INSULATED - DARK BRONZE COLOR
4	PREFINISHED ALUMINUM GUTTER SYSTEM - EXTRA DARK BRONZE COLOR GUTTERS AND DOWNSPOUTS
5	CEMENT BOARD PANEL SYSTEM - PAINT SW7040 SMOKEHOUSE
6	CEMENT BOARD LAP SIDING - PAINT SW7040 SMOKEHOUSE
7	DECORATIVE BRACKET - PAINT SW7020 BLACK FOX
8	CANOPY WITH ALUMINUM FACE AND METAL ROOF - DARK BRONZE
9	STATION NUMBER SIGNAGE 48" TALL - LIGHT BRONZE #311
10	PAINTED HOLLOW METAL DOOR AND FRAME - SW7020 BLACK FOX - DOOR #101 TO BE SW7038 TONY TAUPE INTERIOR AND EXTERIOR
11	BRICK ROWLOCK - SAME AS FACE BRICK
12	GLAZED OVERHEAD DOOR - CHOCOLATE
13	PAINTED STEEL BOLLARD PAINT SAFETY YELLOW - FILL WITH CONCRETE
14	30' STAINLESS STEEL FLAGPOLE
15	EXTERIOR LIGHT FIXTURE
16	BRONZE DEDICATION PLAQUE BY OWNER
17	PAINTED ALUMINUM LOGO BY OWNER
18	PREFINISHED ALUMINUM DOWN SPOUT - EXTRA DARK BRONZE
19	LV2 EXHAUST FAN - DARK BRONZE - SEE MECHANICAL
19	LV1 AIR INTAKE GRILL - DARK BRONZE - SEE MECHANICAL

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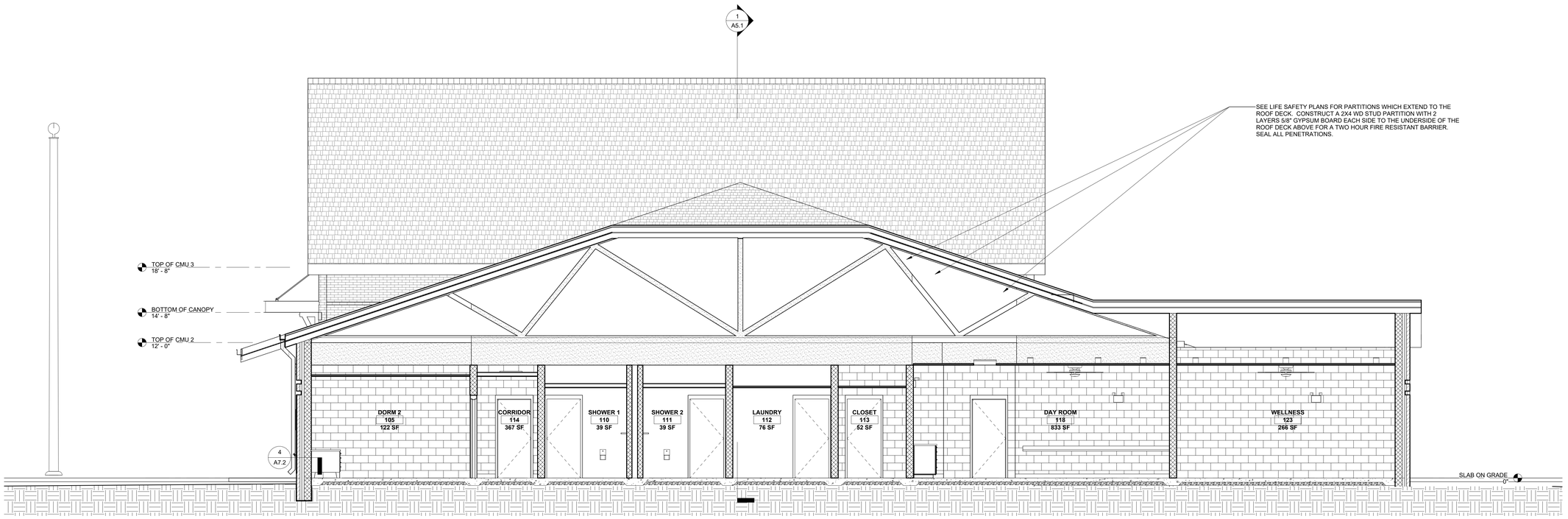
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EXTERIOR ELEVATIONS

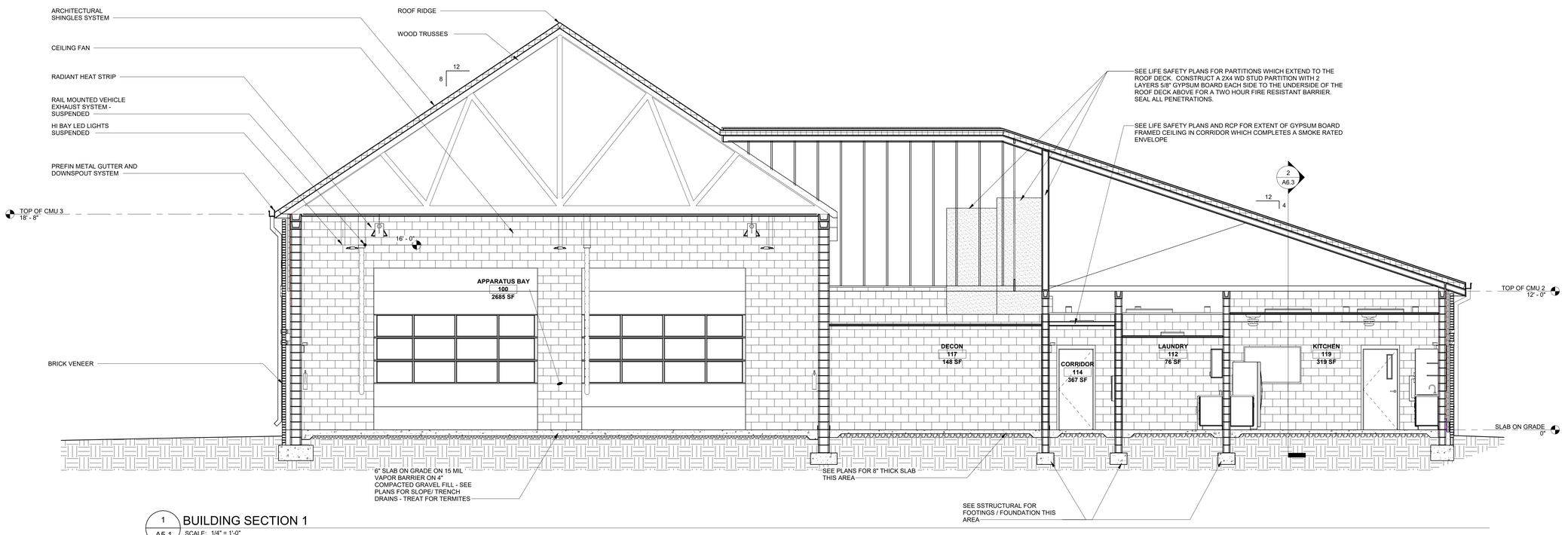
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2 A5.1 BUILDING SECTION 2

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



1 A5.1 BUILDING SECTION 1

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

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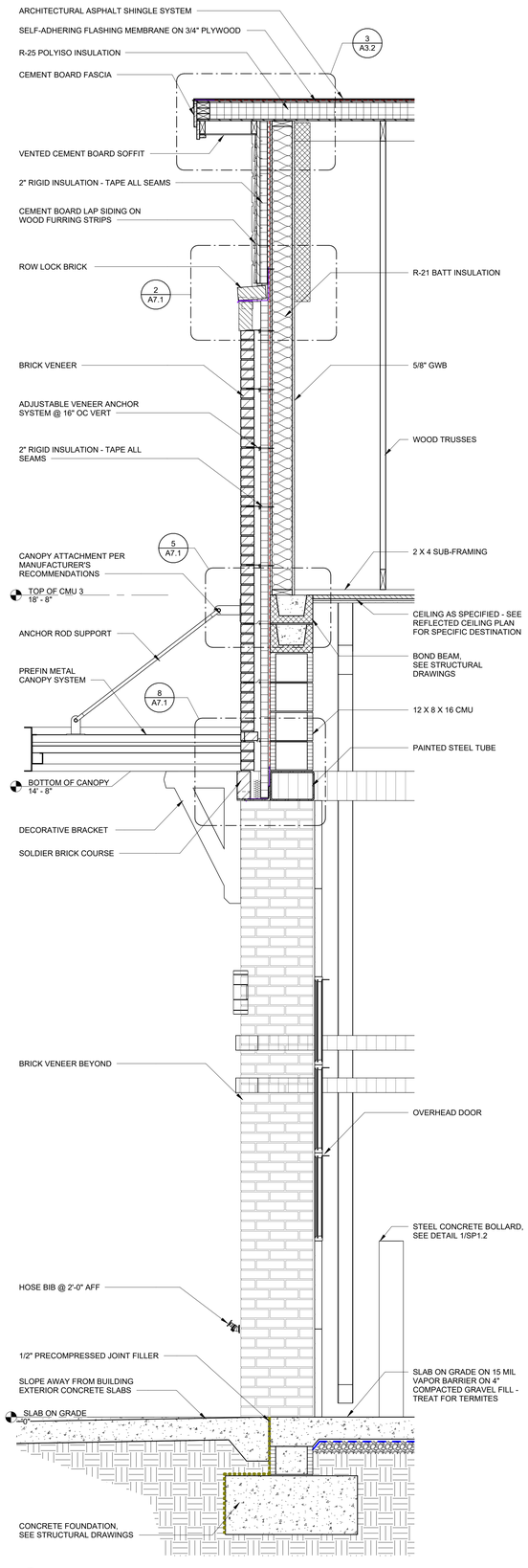
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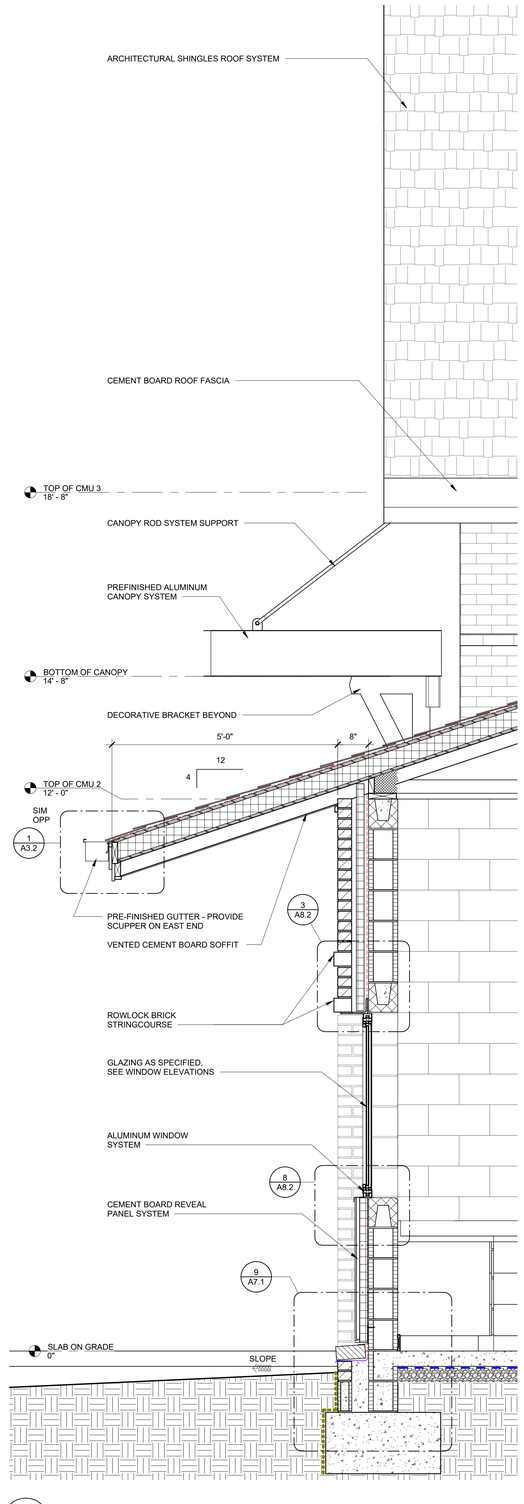
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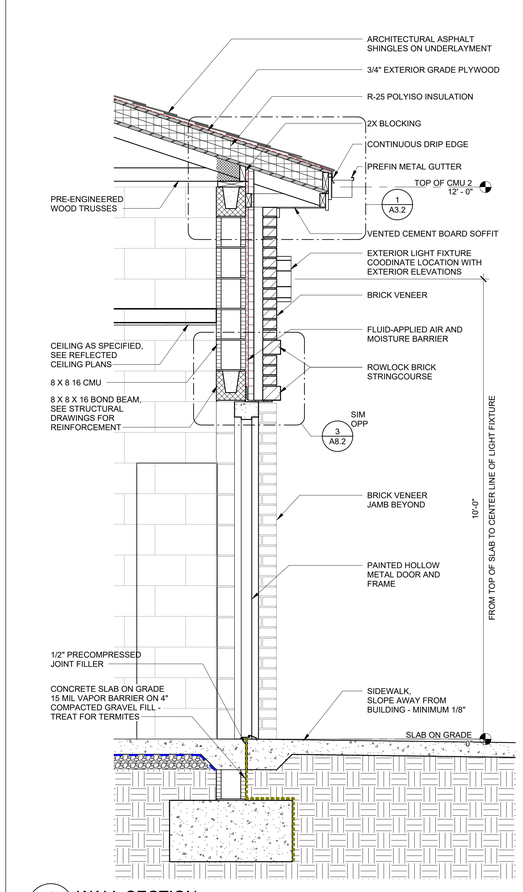
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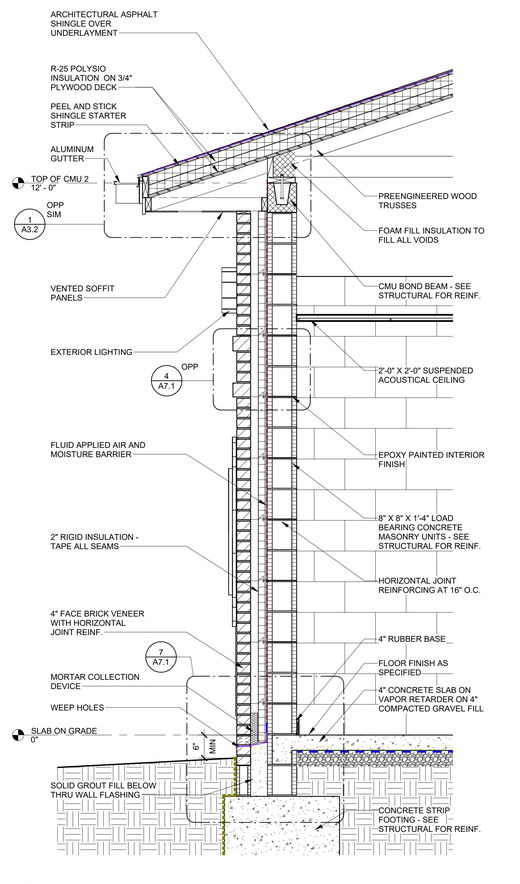
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SCALE: 3/4" = 1'-0"



2 A6.1 WALL SECTION
SCALE: 3/4" = 1'-0"



4 A6.1 WALL SECTION
SCALE: 3/4" = 1'-0"



3 A6.1 WALL SECTION
SCALE: 3/4" = 1'-0"

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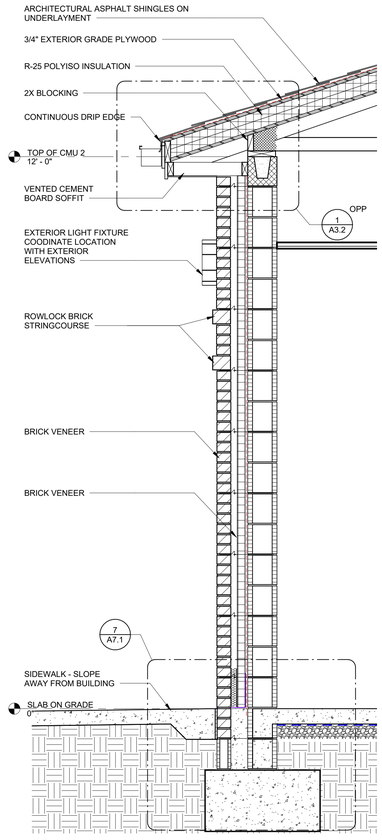
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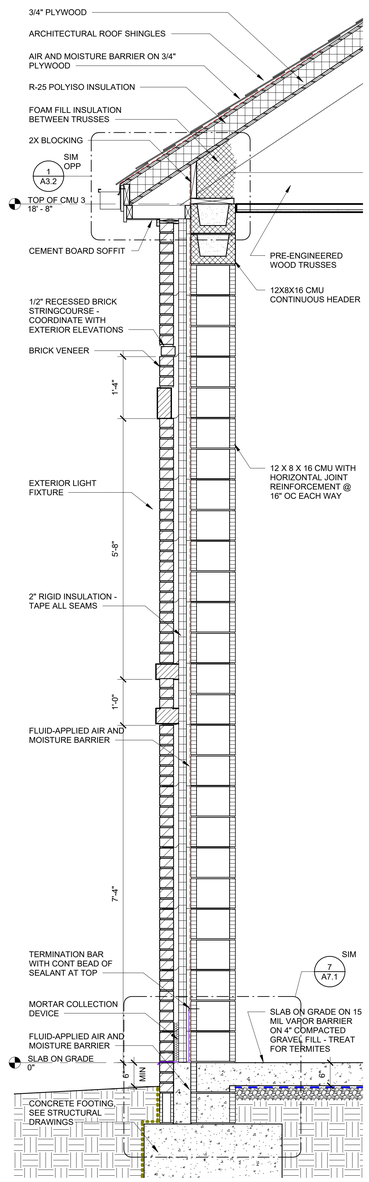
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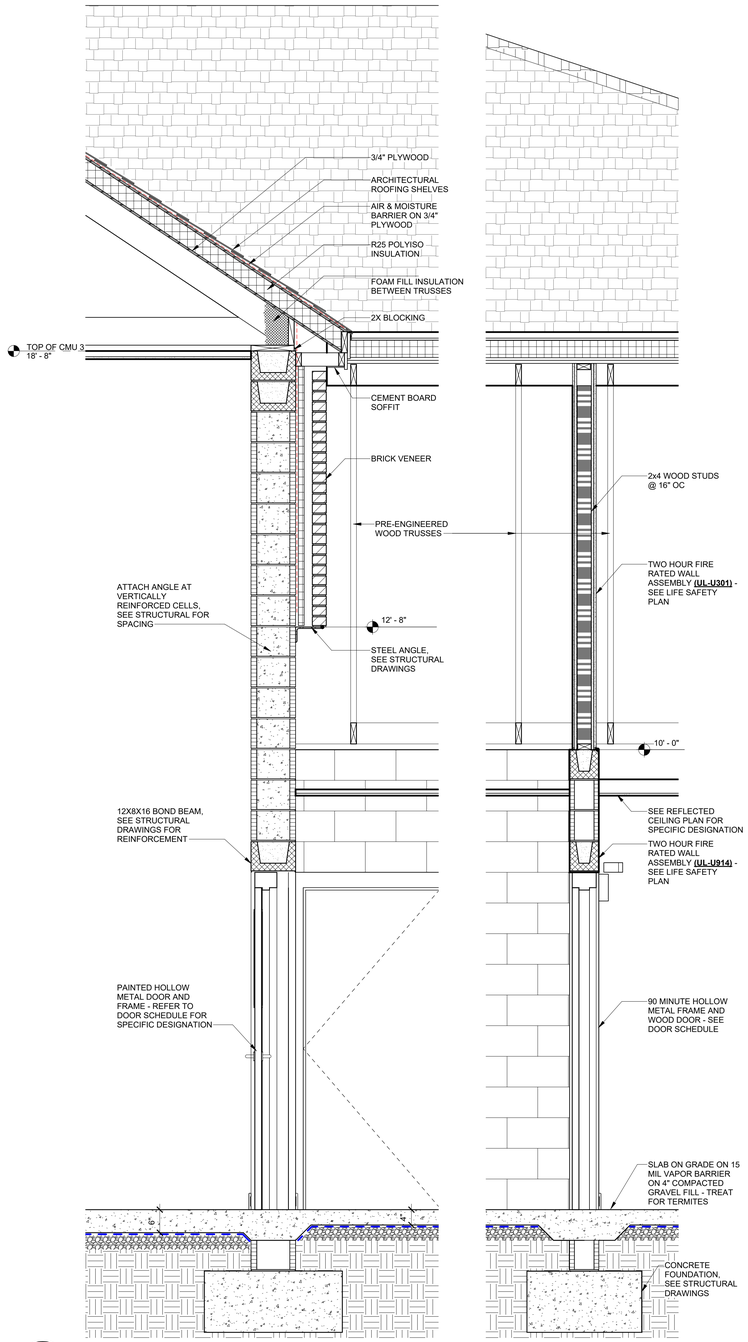
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3 WALL SECTION
A6.2 SCALE: 3/4" = 1'-0"



2 WALL SECTION
A6.2 SCALE: 3/4" = 1'-0"



1 WALL SECTION
A6.2 SCALE: 3/4" = 1'-0"

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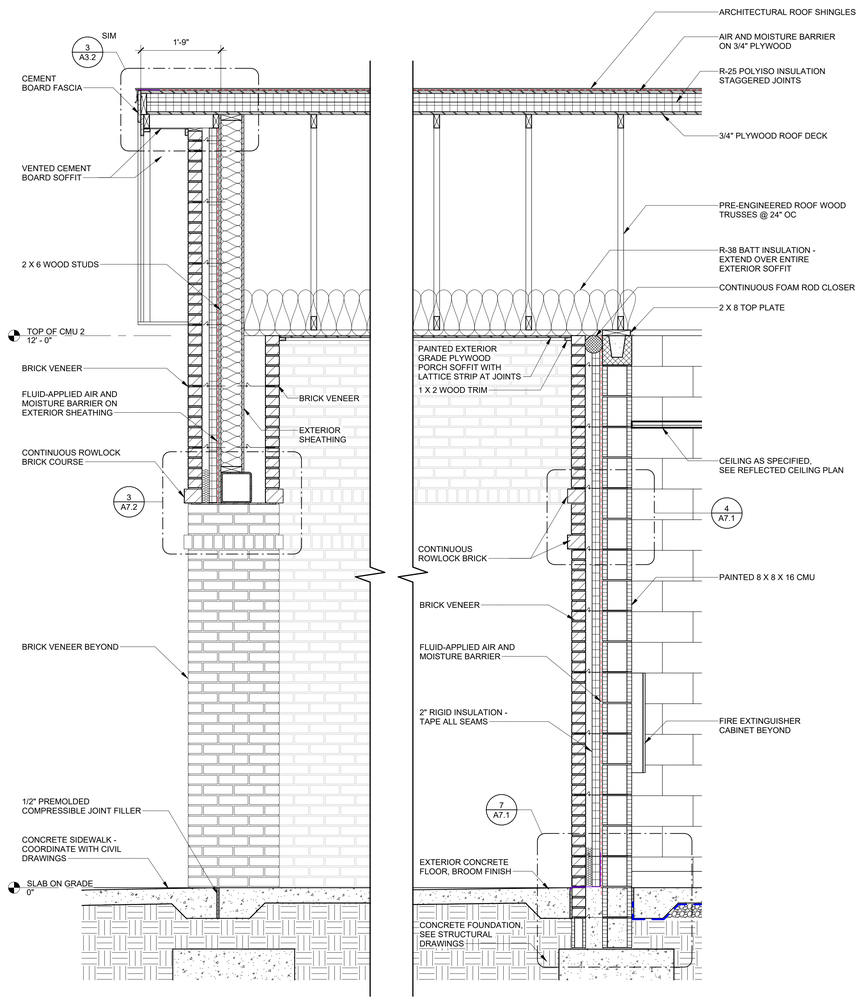
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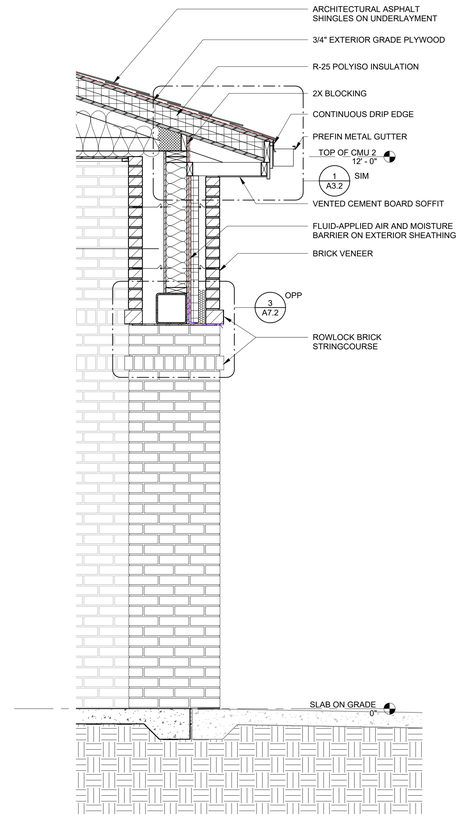
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2 A6.3 WALL SECTION
SCALE: 3/4" = 1'-0"



1 A6.3 Section 8
SCALE: 3/4" = 1'-0"

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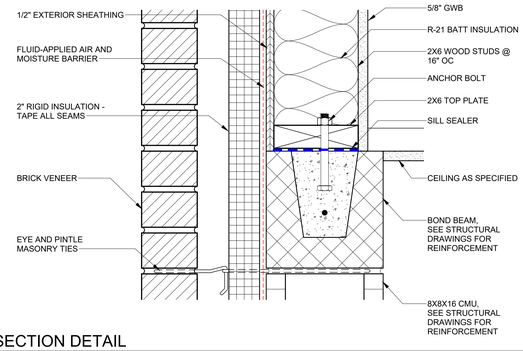
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WALL SECTIONS

A6.3

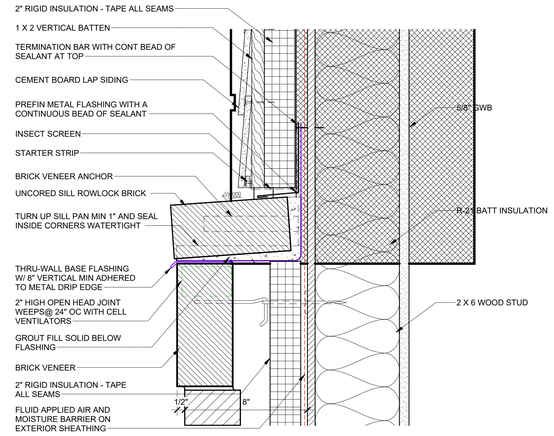
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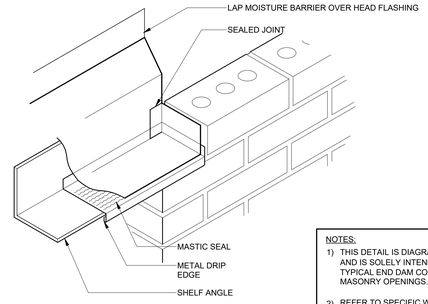
1 A7.1 SECTION DETAIL

SCALE: 3" = 1'-0"



2 A7.1 SECTION DETAIL

SCALE: 3" = 1'-0"

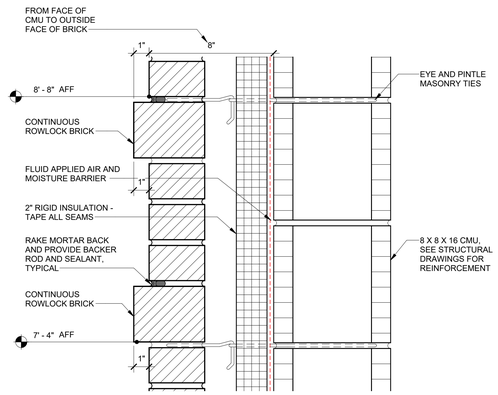


NOTES:

1) THIS DETAIL IS DIAGRAMMATIC ONLY AND IS SOLELY INTENDED TO SHOW TYPICAL END DAM CONSTRUCTION AT MASONRY OPENINGS.
2) REFER TO SPECIFIC WINDOW HEAD DETAILS FOR ADDITIONAL CONSTRUCTION COMPONENTS NOT INDICATED ON THIS DETAIL.
3) REFER TO STRUCTURAL DRAWINGS FOR ANGLE SIZES AND MINIMUM BEARING.

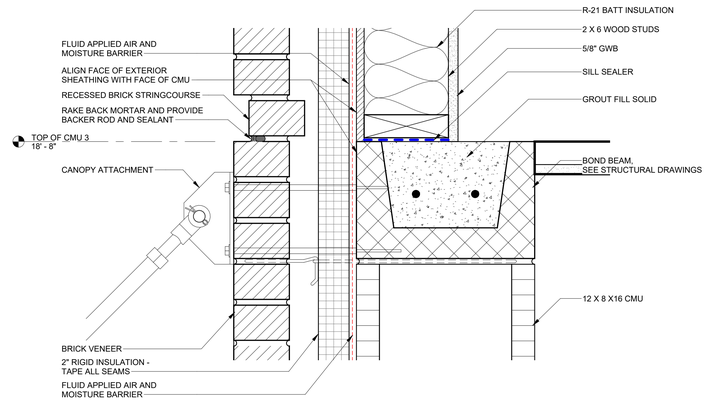
3 A7.1 TYPICAL FOLDED FLASHING END DAM

SCALE: 3" = 1'-0"



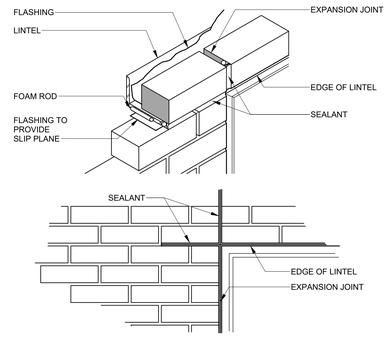
4 A7.1 SECTION DETAIL

SCALE: 3" = 1'-0"



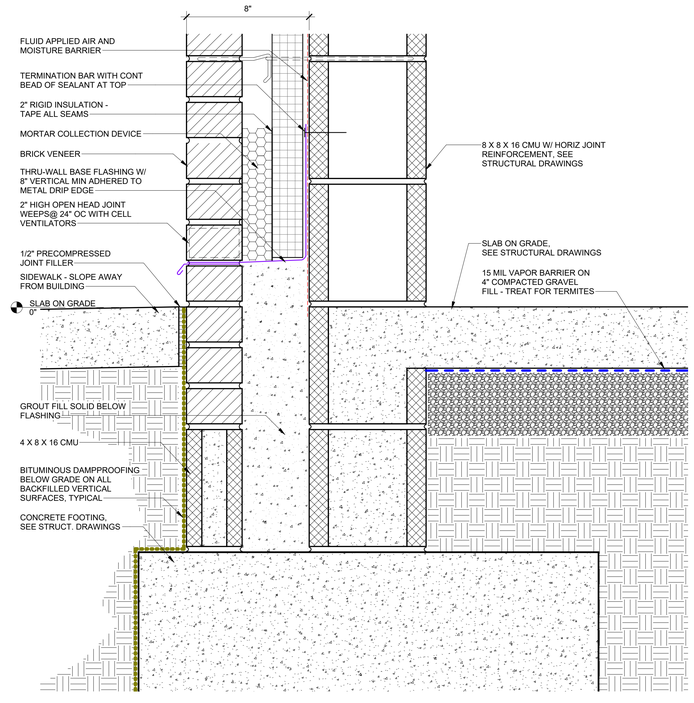
5 A7.1 SECTION DETAIL

SCALE: 3" = 1'-0"



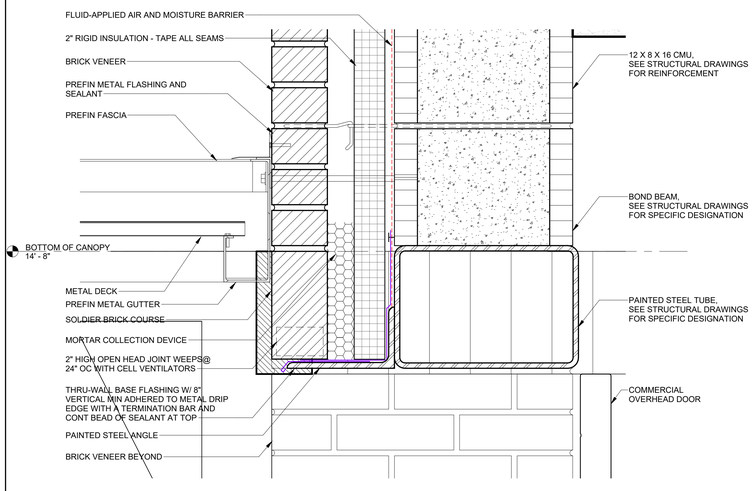
6 A7.1 TYPICAL EXPANSION JOINT AT OPENING

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



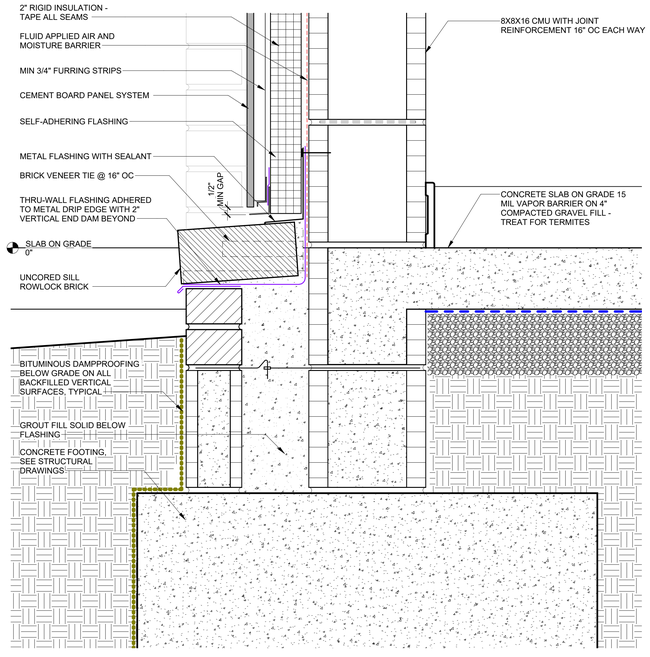
7 A7.1 FOUNDATION DETAIL

SCALE: 3" = 1'-0"



8 A7.1 SECTION DETAIL

SCALE: 3" = 1'-0"



9 A7.1 FOUNDATION DETAIL

SCALE: 3" = 1'-0"

2WR ARCHITECTS
11 Ninth Street, Suite 120
Columbus, GA 31901
P. (706) 571-6923

STATE OF GEORGIA
EMILY ALBRIGHT FLOURNOY
CERTIFICATE NO. RA 019245
REGISTERED ARCHITECT
08/18/2026

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA
100% CONSTRUCTION DOCUMENTS

Project No.:	26-00013
Date:	8/18/2026
Drawn by:	XXX
Checked by:	XXX

Revisions:

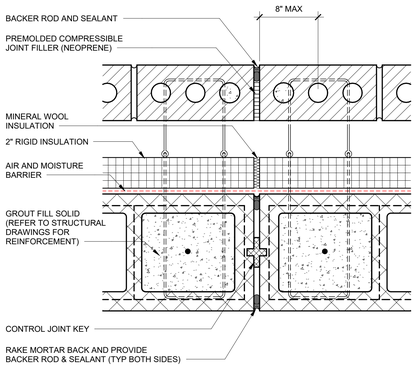
No.	Date	Description

SECTION DETAILS

A7.1

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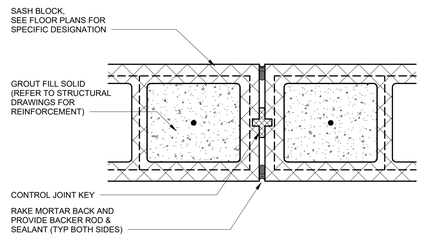


CONTROL JOINT GENERAL NOTES:

1. ALL HORIZONTAL JOINT REINFORCEMENT SHALL BE DISCONTINUOUS ACROSS CONTROL JOINTS.
2. CONTROL JOINTS IN BOND BEAMS SHALL ALIGN W/ WALL CONTROL JOINTS. SEE STRUCT FOR BOND BEAM.
3. CONTROL JOINT SHALL EXTEND THROUGH ENTIRE WALL SURFACE (IE, BRICK VENEER,CMU BACKUP). CMU CONTROL JOINTS TO OCCUR AT NEAREST HEAD JOINT COURSE TO BRICK JOINT.
4. SEE PLANS AND/OR ELEVATIONS FOR SPECIFIED CONTROL JOINT LOCATIONS.
5. PROVIDE ADDITIONAL ADJUSTABLE EYE AND PINTLE ANCHORS @ 16" O.C. (VERTICAL) IF HORIZONTAL, JOINT REINFORCEMENT TIES DO NOT CLEAR WITHIN 8" ON EITHER SIDE OF JOINT.
6. OFFSET CJ'S HORIZONTALLY AT LINTELS - REFER TO STRUCTURAL DRAWINGS.

1 A7.2 CONTROL JOINT DETAIL @ CMU/BRICK

SCALE: 3" = 1'-0"

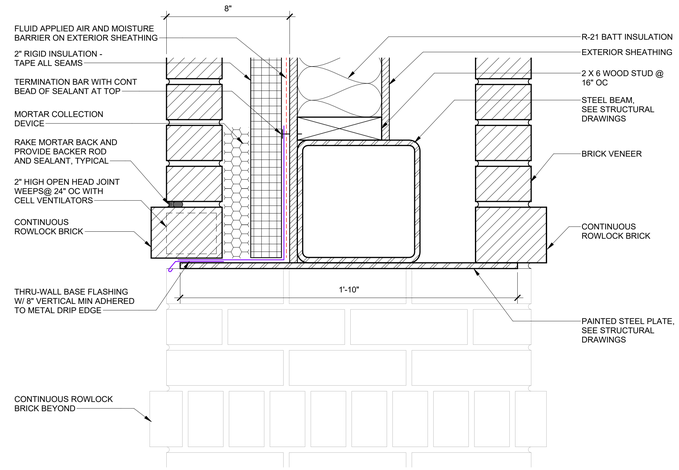


CONTROL JOINT GENERAL NOTES:

1. ALL HORIZONTAL JOINT REINFORCEMENT SHALL BE DISCONTINUOUS ACROSS CONTROL JOINTS.
2. CONTROL JOINTS IN BOND BEAMS SHALL ALIGN W/ WALL CONTROL JOINTS. SEE STRUCT FOR BOND BEAM.
3. CONTROL JOINT SHALL EXTEND FROM FOUNDATION TO TOP OF CMU.
4. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION PERTAINING TO CONTROL JOINTS.
5. OFFSET CJ'S HORIZONTALLY AT LINTELS - REFER TO STRUCTURAL DRAWINGS.

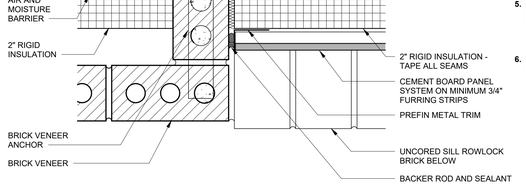
2 A7.2 CONTROL JOINT DETAIL

SCALE: 3" = 1'-0"



3 A7.2 SECTION DETAIL

SCALE: 3" = 1'-0"



CONTROL JOINT GENERAL NOTES:

1. ALL HORIZONTAL JOINT REINFORCEMENT SHALL BE DISCONTINUOUS ACROSS CONTROL JOINTS.
2. CONTROL JOINTS IN BOND BEAMS SHALL ALIGN W/ WALL CONTROL JOINTS. SEE STRUCT FOR BOND BEAM.
3. CONTROL JOINT SHALL EXTEND THROUGH ENTIRE WALL SURFACE (IE, BRICK VENEER,CMU BACKUP). CMU CONTROL JOINTS TO OCCUR AT NEAREST HEAD JOINT COURSE TO BRICK JOINT.
4. SEE PLANS AND/OR ELEVATIONS FOR SPECIFIED CONTROL JOINT LOCATIONS.
5. PROVIDE ADDITIONAL ADJUSTABLE EYE AND PINTLE ANCHORS @ 16" O.C. (VERTICAL) IF HORIZONTAL, JOINT REINFORCEMENT TIES DO NOT CLEAR WITHIN 8" ON EITHER SIDE OF JOINT.
6. OFFSET CJ'S HORIZONTALLY AT LINTELS - REFER TO STRUCTURAL DRAWINGS.

4 A7.2 TRANSITION DETAIL BRICK/CB @ WALL JOINT

SCALE: 3" = 1'-0"

2WR ARCHITECTS
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EMILY ALBRIGHT FLOURNOY
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TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

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Project No.: 26-00013
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Revisions:

No.	Date	Description

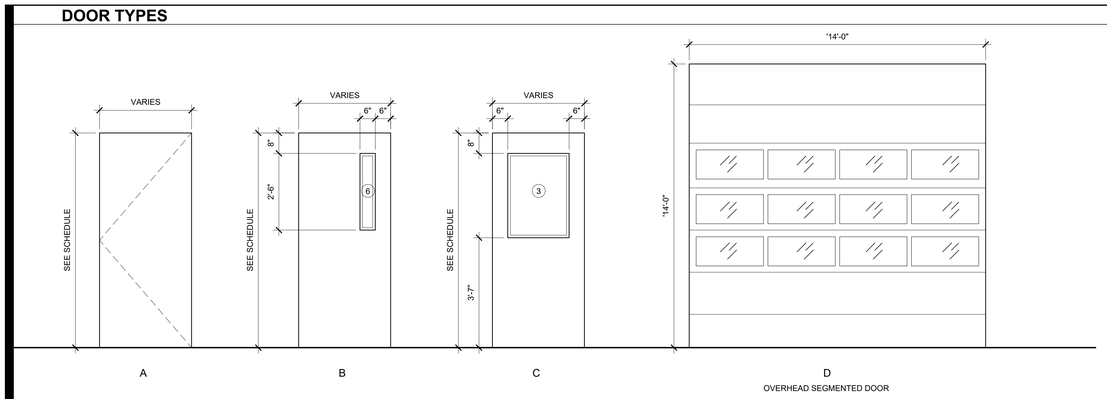
SECTION / PLAN DETAILS

A7.2

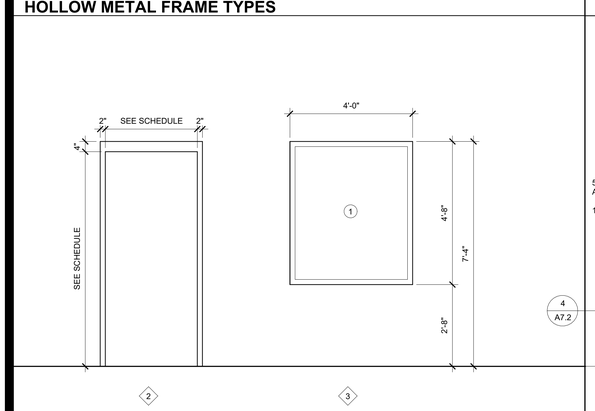
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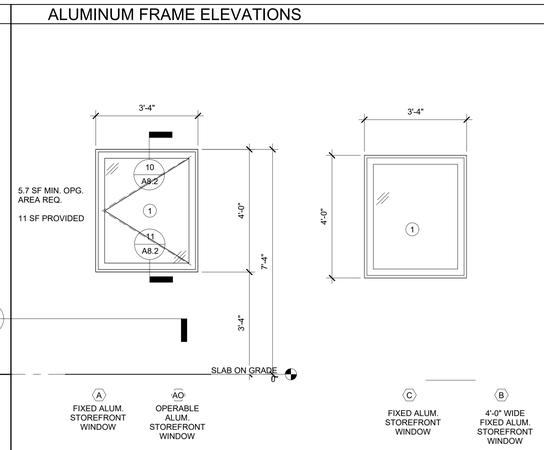
DOOR TYPES



HOLLOW METAL FRAME TYPES

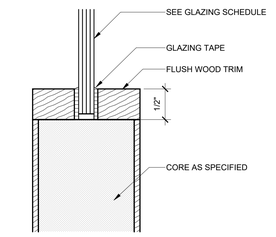


ALUMINUM FRAME ELEVATIONS

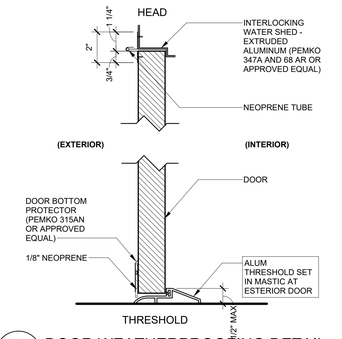


DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR TYPE	DOOR MAT'L	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DETAIL FRAME TYPE	DETAIL FRAME MAT'L	FIRE RATING (MINUTES)	DETAIL HEAD	DETAIL JAMB	HDWR SET	Remarks
FLOOR 1												
100B	C	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	9	
100C	A	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	16	
100D	A	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	13	
100E	B	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	15	
100I	D	ALUM	14' - 0"	14' - 0"	2"	-	STEEL		8/A6.10	9/A8.2	BY MFR	OH DOOR
100J	D	ALUM	14' - 0"	14' - 0"	2"	-	STEEL		8/A6.10	9/A8.2	BY MFR	OH DOOR
101	C	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		3/A8.2 SIM	5/A8.2	EXT-01	
102	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	5	UNDERCUT DOOR 3/4"
103	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	4	
104	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	6	
105	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	6	
106	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	6	
107	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	6	
109	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	7	
110	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	4	
111	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	4	
112	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM	45 MIN	2/A8.2	1/A8.2	11	UNDERCUT DOOR 3/4"
113	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM	45 MIN	2/A8.2	1/A8.2	10	UNDERCUT DOOR 3/4"
114	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	15	
114A	B	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		3/A8.2 SIM	5/A8.2	EXT-01	
114B	B	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM	45 MIN	2/A8.2	1/A8.2	17	
115	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	8	
116	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	14	
118	C	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		3/A8.2 SIM	5/A8.2	EXT-05	
120	A	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM	45 MIN	2/A8.2	1/A8.2	7	
121	A	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		3/A8.2 SIM	5/A8.2	EXT-03	
122	A	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		3/A8.2 SIM	5/A8.2	EXT-04	
123	C	SCWD	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	12	
123A	C	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		3/A8.2 SIM	5/A8.2	EXT-02	
125	C	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		2/A8.2	1/A8.2	9.1	
100L	D	ALUM	14' - 0"	14' - 0"	2"	-	STEEL		8/A7.1	9/A8.2	BY MFR	ALT #4
100M	D	ALUM	14' - 0"	14' - 0"	2"	-	STEEL		8/A7.1	9/A8.2	BY MFR	ALT #4
100N	A	HM	3' - 0"	7' - 0"	1 3/4"	2	HM		3/A8.2 SIM	5/A8.2	EXT-01	ALT #4
X126	D	ALUM	14' - 0"	14' - 0"	2"	-	STEEL		8/A7.1	9/A8.2	BY MFR	OH DOOR
X127	D	ALUM	14' - 0"	14' - 0"	2"	-	STEEL		8/A7.1	9/A8.2	BY MFR	OH DOOR
X132	D	ALUM	14' - 0"	14' - 0"	2"	-	STEEL		8/A7.1	9/A8.2	BY MFR	OH DOOR
X133	D	ALUM	14' - 0"	14' - 0"	2"	-	STEEL		8/A7.1	9/A8.2	BY MFR	OH DOOR



5 A8.1 DOOR GLAZING- NON-RATED
SCALE: 12" = 1'-0"



6 A8.1 DOOR WEATHERPROOFING DETAIL
SCALE: 3" = 1'-0"

GENERAL DOOR NOTES

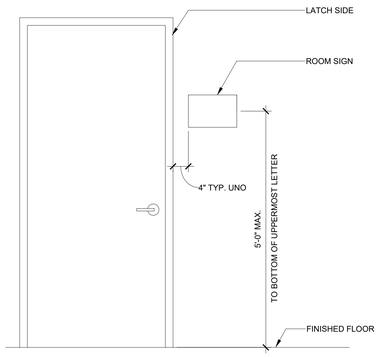
1. DOOR AND FRAME NUMBERS CORRESPOND TO ROOM NUMBERS. WHERE MORE THAN ONE DOOR OCCURS IN A ROOM, A SUFFIX HAS BEEN ADDED (I.E. 100A).
2. HARDWARE ON ACCESSIBLE DOORS AND OPERATING DEVICES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRED TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
3. REQUIRED PANIC HARDWARE AND FIRE EXIT HARDWARE SHALL NOT BE EQUIPPED WITH ANY LOCKING DEVICE, SET SCREW, OR OTHER ARRANGEMENT THAT PREVENTS THE RELEASE OF THE LATCH WEN PRESSURE IS APPLIED TO THE RELEASING DEVICE.
4. WEATHERSTRIPPING SHALL BE PROVIDED AT HEAD AND JAMBS OF ALL EXTERIOR DOORS.
5. ALL THRESHOLDS SHALL CONFORM TO HANDICAP ACCESS REQUIREMENTS.
6. ALL EXTERIOR DOORS AND FRAMES TO BE HOT-DIPPED GALVANIZED. REFER TO SPECS SECTION 08110.
7. PROVIDE UNDERCUTS PER SCHEDULE.
8. DOOR STOPS ARE NOT SHOWN ON PLANS. HOWEVER, ALL DOORS SHALL RECEIVE APPROPRIATE FLOOR OR WALL STOP AS REQUIRED.
9. PRIOR TO SUBMITTING DOOR AND FRAME SHOP DRAWINGS, CONTRACTOR SHALL VERIFY DIMENSIONS, CONDITIONS, AND HARDWARE AT EACH EXISTING DOOR OR FRAME TO REMAIN AND UTILIZE THIS INFORMATION TO PREPARE SHOP DRAWINGS.
10. CONTRACTOR TO COORDINATE KEYING SYSTEMS AND HARDWARE FUNCTIONS WITH OWNER.

GLAZING LEGEND

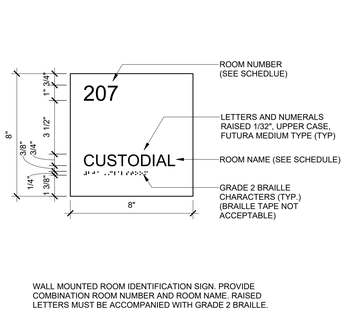
1. 1" INSULATED TEMPERED
2. NOT USED
3. 1/4" CLEAR TEMPERED
4. NOT USED
5. NOT USED
6. 5/16" UL-LABELED LAMINATED FIRE RATED CLASS CERAMIC

GENERAL WINDOW NOTES

1. TEMPERED GLAZING SHALL BE PROVIDED IN ALL LOCATIONS WHERE WINDOWS OR GLAZING ARE LOCATED WITHIN 3'-0" OF INTERIOR OR EXTERIOR DOORS, BELOW DOOR HEAD HEIGHT, AND UP TO 1'-6" ABOVE FINISH FLOOR.
2. SEE WINDOW ELEVATIONS FOR GLAZING TYPES.
3. SECTIONS THROUGH WINDOW MEMBERS ARE SHOWN SCHEMATICALLY - ACTUAL CONFIGURATIONS MAY VARY PER APPROVED MFR'S.
4. ROUGH OPENINGS ARE SHOWN ON WINDOW ELEVATIONS. ACTUAL WINDOW UNITS SHOULD BE CONSTRUCTED TO MEET TOLERANCES NECESSARY FOR PROPER HORIZONTAL AND VERTICAL ALIGNMENT OF SYSTEMS AND CONFORMANCE WITH DETAILS AND SPECIFICATIONS OF THE CONSTRUCTION DOCUMENTS.
5. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATIONS.
6. WINDOW MFR SHALL BE RESPONSIBLE FOR PROVIDING ANY ADDITIONAL MULLION REINFORCEMENT NECESSARY TO MEET ALL SPECIFIED LOADING CRITERIA.
7. ALL NEW FIRE PROTECTION-RATED GLAZING SHALL BE PERMANENTLY MARKED IN ACCORDANCE WITH LIFE SAFETY AND FIRE CODE.
8. PROVIDE BLINDS AT ALL INTERIOR HOLLOW METAL WINDOWS.

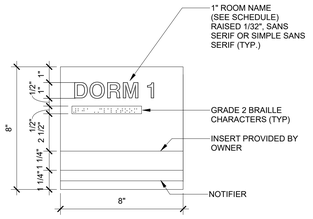


7 A8.1 ID100 - SIGNAGE - PLACEMENT
SCALE: 1/16" = 1'-0"

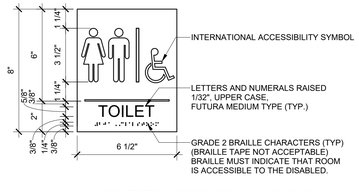


WALL MOUNTED ROOM IDENTIFICATION SIGN. PROVIDE COMBINATION ROOM NUMBER AND ROOM NAME. RAISED LETTERS MUST BE ACCOMPANIED WITH GRADE 2 BRAILLE.

8 A8.1 TYPE "A" SIGN DETAIL
SCALE: 3" = 1'-0"



2 A8.1 TYPE "B" SIGN DETAIL
SCALE: 3" = 1'-0"



WALL MOUNTED RESTROOM IDENTIFICATION SIGN WITH ROOM NUMBER, INTERNATIONAL ACCESSIBILITY SYMBOL AND MALE AND FEMALE LOGO. RAISED LETTERS MUST BE ACCOMPANIED BY GRADE 2 BRAILLE.

9 A8.1 TYPE "C" SIGN DETAIL
SCALE: 3" = 1'-0"

OWNER WILL PROVIDE ALL ROOM SIGNS - CONTRACTOR SHALL INSTALL

INTERIOR SIGN SCHEDULE

Mark	ROOM NAME	SIGN TYPE	QTY	SIGNAGE TEXT	LOCATION(S)
100C	DECON	A	1	DECON	ADJACENT TO DOOR 100C
100D	GEAR ROOM	A	1	GEAR ROOM	ADJACENT TO DOOR 100D
100I					
100J					
102	OFFICE	A	1	OFFICE	ADJACENT TO DOOR 102
103	RESTROOM	C	1	UNISEX TOILET	ADJACENT TO DOOR 103
104	DORM 1	B	1	DORM 1	ADJACENT TO DOOR 104
105	DORM 2	B	1	DORM 2	ADJACENT TO DOOR 105
106	DORM 3	B	1	DORM 3	ADJACENT TO DOOR 106
107	DORM 4	B	1	DORM 4	ADJACENT TO DOOR 107
108	STORAGE	A	1	STORAGE	ADJACENT TO DOOR 108
109	STORAGE	A	1	STORAGE	ADJACENT TO DOOR 109
110	SHOWER 1	A	1	SHOWER	ADJACENT TO DOOR 110
111	SHOWER 2	A	1	SHOWER	ADJACENT TO DOOR 111
112	LAUNDRY	A	1	LAUNDRY	ADJACENT TO DOOR 112
113	CLOSET	A	1	CLOSET	ADJACENT TO DOOR 113
114B	DAYROOM	A	1	BREAK ROOM	ADJACENT TO DOOR 114B
115	MECHANICAL	A	1	MECHANICAL	ADJACENT TO DOOR 115
116	GEAR ROOM	A	1	GEAR ROOM	ADJACENT TO DOOR 116
120	STORAGE	A	1	STORAGE	ADJACENT TO DOOR 120
123	STORAGE	A	1	WELLNESS	ADJACENT TO DOOR 123

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EMILY ALBRIGHT FLOURNOY
CERTIFICATE NO. RA 016045
REGISTERED ARCHITECT
08/18/2026

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA
100% CONSTRUCTION DOCUMENTS

Project No.: 26-00013
Date: 8/18/2026
Drawn by: EE
Checked by: WAG
Revisions:

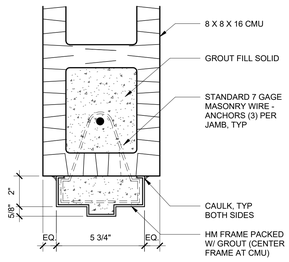
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DOORS, SIGNS & WINDOW SCHEDULES & DETAILS

A8.1

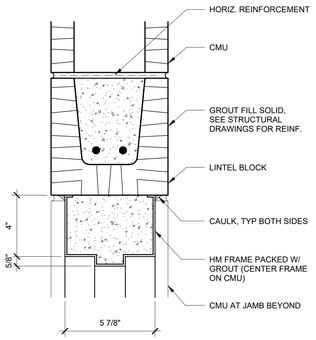
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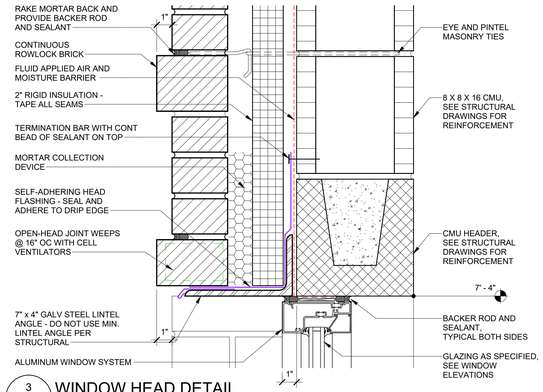
1 A8.2 JAMB DETAIL @ CMU

SCALE: 3" = 1'-0"



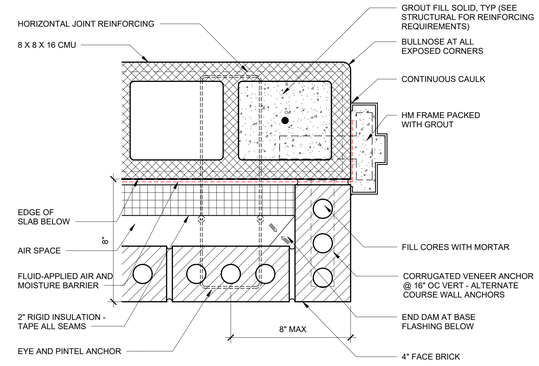
2 A8.2 HEAD DETAIL @ CMU

SCALE: 3" = 1'-0"



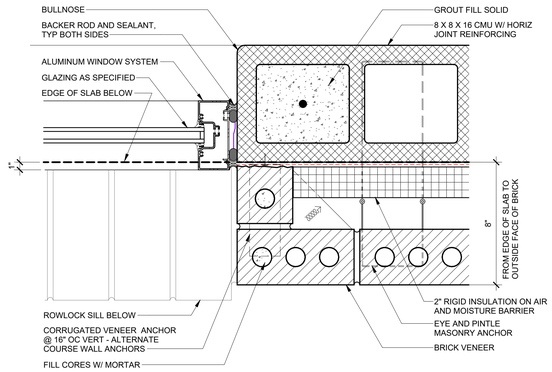
3 A8.2 WINDOW HEAD DETAIL

SCALE: 3" = 1'-0"



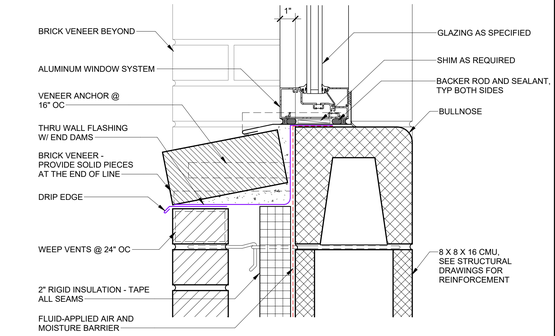
5 A8.2 DOOR JAMB DETAIL

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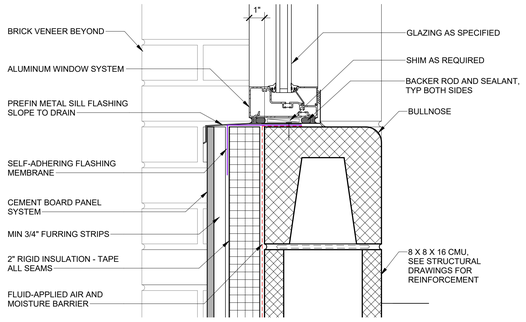
6 A8.2 JAMB DETAIL

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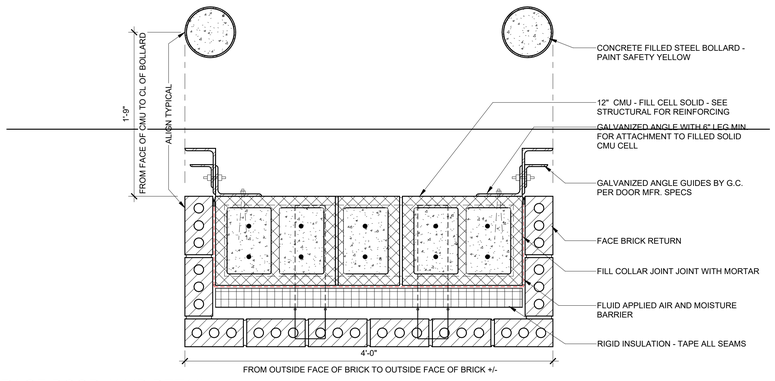
7 A8.2 WINDOW SILL DETAIL @ BRICK

SCALE: 3" = 1'-0"



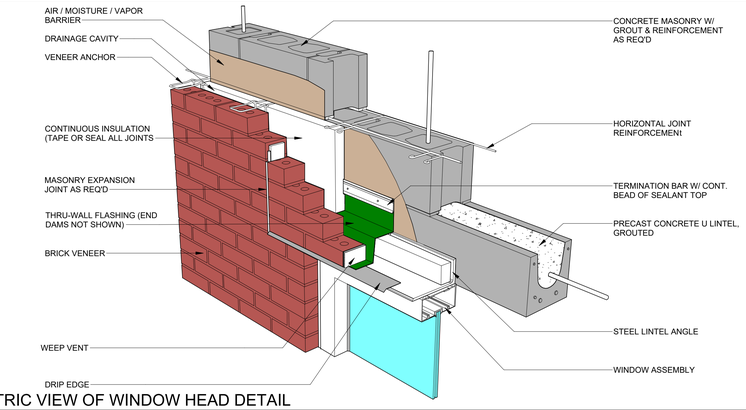
8 A8.2 WINDOW SILL DETAIL @ CB

SCALE: 3" = 1'-0"



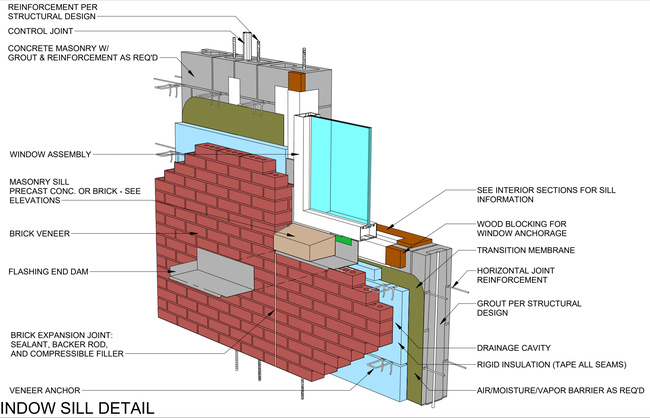
9 A8.2 GARAGE DOOR JAMB DETAIL

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



10 A8.2 ISOMETRIC VIEW OF WINDOW HEAD DETAIL

SCALE: 3" = 1'-0"



11 A8.2 ISOMETRIC VIEW OF WINDOW SILL DETAIL

SCALE: 3" = 1'-0"

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REGISTERED ARCHITECT
08/18/2026

TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

Project No.:	26-00013
Date:	8/18/2026
Drawn by:	XXX
Checked by:	XXX

Revisions:

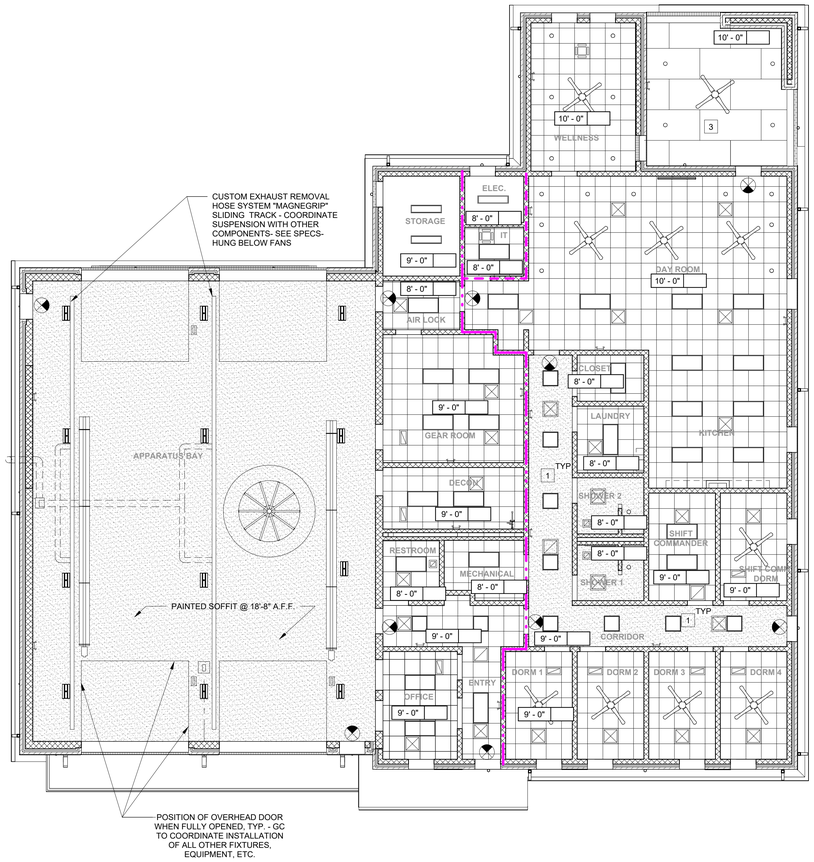
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DOOR & WINDOW DETAILS

A8.2

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1 A9.1 REFLECTED CEILING PLAN

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

GENERAL REFLECTED CEILING PLAN NOTES

A. ALL ABOVE-CEILING AND EXPOSED SYSTEMS INSTALLATION BY SUBS TO BE COORDINATED WITH OTHER TRADES PRIOR TO BEGINNING WORK.

B. ENGINEERING DRAWINGS TAKE PRECEDENCE FOR PARTICULAR FIXTURE TYPES. ARCHITECTURAL REFLECTED CEILING PLANS ARE FOR COORDINATION OF AESTHETIC ARRANGEMENTS.

C. ENGINEERING DRAWINGS TAKE PRECEDENCE FOR SIZES OF DUCTWORK. ARCHITECTURAL REFLECTED CEILING PLANS ARE FOR COORDINATION OF AESTHETIC ARRANGEMENTS.

D. CEILING HEIGHTS INDICATED ARE FROM TOP OF FINISH FLOOR TO UNDERSIDE OF FINISHED CEILING.

E. ALL LAY-IN ACOUSTICAL CEILINGS TO BE ACT-1 WITH GRID 1 U.N.O.

F. ALL EXPOSED CEILINGS TO BE PAINTED P-2, U.N.O.

G. EXPOSED PIPING, CONDUIT, ETC. NOT SHOWN FOR CLARITY. ALL EXPOSED ELEMENTS SHALL BE PAINTED, UNO.

H. ALL EXPOSED ELECTRICAL CONDUIT TO BE PAINTED TO MATCH ADJACENT SURFACES.

I. REFER TO FINISH PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION.

J. REFER TO ELECTRICAL PLANS FOR LOCATIONS OF SMOKE OR HEAT DETECTORS

KEYED REFLECTED CEILING PLAN NOTES

1 SUSPENDED GYPSUM BOARD CEILING AT 9'-0" A.F.F. FOR SMOKE TIGHT ENVELOPE

2 NOT USED

3 3/4" EXTERIOR GRADE AB PLYWOOD PORCH SOFFIT WITH LATTICE STRIP AT JOINTS - PAINT SKY BLY

FIXTURE LEGEND

- RECESSED CAN LIGHT - SEE ELECTRICAL FOR INTERIOR VS EXTERIOR
- 48" LINEAR LED
- 2' x 2' LED LIGHT FIXTURE
- 2' x 4' LED LIGHT FIXTURE
- WALL MOUNTED UPLIGHT/DOWNLIGHT @ 7'-0" AFF MIN.
- 2' x 2' SUPPLY AIR DIFFUSER
- 2' x 2' RETURN AIR GRILLE
- 1' x 1' SUPPLY AIR DIFFUSER
- 1' x 1' EXHAUST FAN
- CEILIING FAN WITH LIGHT
- 8' DIAMETER POWERFOIL CEILING FAN - SET ABOVE LIGHT SOURCES - (1) E SERIES HIGH VELOCITY FAN SIM. TO BIG ASS FANS - PROVIDE A DEDICATED 120V, 20A CIRCUIT WITH 2#12 & 1#12-3/4" C CIRCUIT.
- GAS-FIRED RADIANT HEAT SOURCE
- HIGH BAY LIGHT FIXTURE
- CEILING MOUNTED ELECTRICAL CORD REEL - COORDINATE EXACT LOCATION WITH USER
- VANITY LIGHT
- EMERGENCY LIGHT FIXTURE
- EXTERIOR LIGHT FIXTURE

FINISH SYMBOLS LEGEND

CEILING HEIGHT — 10'-0" | A — REMARKS

- LAY-IN ACOUSTICAL CEILING
- GWB CEILING
- PAINTED EXPOSED STRUCTURE

REMARKS

A. NOT USED

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08/18/2026

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA
100% CONSTRUCTION DOCUMENTS

Project No.: 26-00013
Date: 8/18/2026
Drawn by: XXX
Checked by: XXX
Revisions:

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REFLECTED CEILING PLAN

A9.1

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1 / A10.1 FINISH PLAN

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

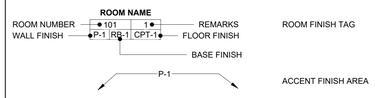
GENERAL FINISH NOTES

1. REFER TO SPECIFICATIONS FOR PAINT SYSTEM.
2. ALL PAINT TERMINATES AT INSIDE CORNER, U.N.O.
3. REFER TO REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION. REFER TO SPECIFICATIONS FOR GWB TYPE DESIGNATIONS.
4. PROVIDE EXTRUDED ALUM TRANSITION STRIPS AT ALL CHANGES IN FLOOR MATERIAL.
5. ALL HOLLOW METAL FRAMES TO BE PAINTED P-4.
6. ALL WALLS TO BE PAINTED P-1, U.N.O.
7. ALL GWB CEILINGS TO BE PAINTED P-2, U.N.O.
8. ALL ROLLER SHADES TO BE OYSTER SB9070.

KEYED FINISH NOTES

A	NOT USED
B	PROVIDE SS-1 COUNTERTOP @ 30" AFF.

FINISH SYMBOLS LEGEND



FINISH LEGEND

PAINT	
P-1	SHERWIN WILLIAMS ORIGAMI WHITE
P-2	SHERWIN WILLIAMS CEILING BRIGHT WHITE
P-3	BENJAMIN MOORE HERITAGE RED
P-4	SHERWIN WILLIAMS BLACK FOX
P-5	BENJAMIN MOORE NEWBURYPORT BLUE
P-6	SHERWN WILLIAMS LULLABY
VINYL TILE	
LVT-1	INTERFACE BRUSHED LINES GALENA
LVT-2	INTERFACE BRUSHED LINES SANDALWOOD
SEALED CONCRETE	
SC	SEALED CONCRETE - REFER TO SPECIFCATIONS FOR MORE INFO.
RUBBER BASE	
RB-1	4" RUBBER BASE. BOD: ROPPE, CHARCOAL
WALK-OFF	
WM	INTERFACE SR799 104918 MIDNIGHT
LAMINATE	
PL-1	FORMICA CAMEL ELM
SOLID SURFACE	
SS-1	1/2" CORIAN, CARBON AGGREGATE
CERAMIC TILE	
CT-1	TRINITY TILE MEDORA GREY 3X10 GLOSSY
CT-2	TRINITY TILE CONTENT IVORY 12X24 & COORD. BASE

REMARKS

1. PROVIDE EPOXY PAINT ON ALL WALLS AND GYP. CEILINGS.
2. PROVIDE CT-2 ON SHOWER WALLS FLOOR TO CEILING.
3. PATTERN PER ARCHITECTS DIRECTION.

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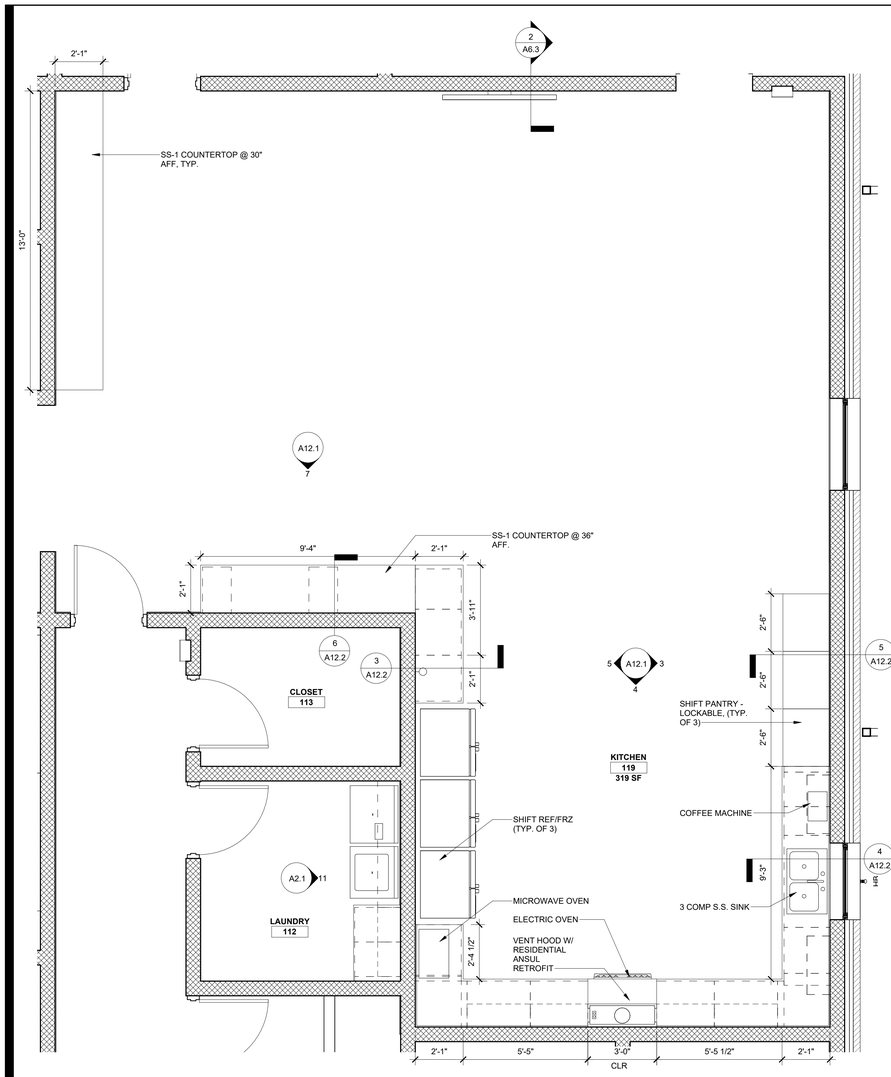
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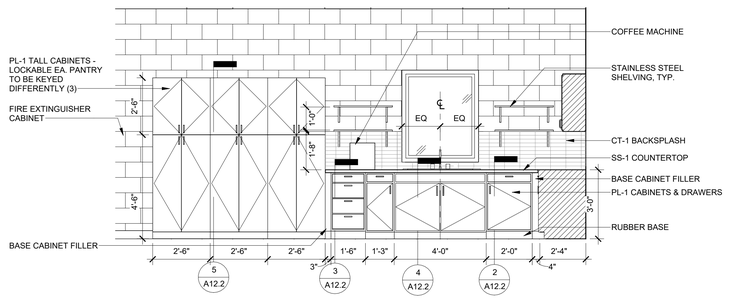
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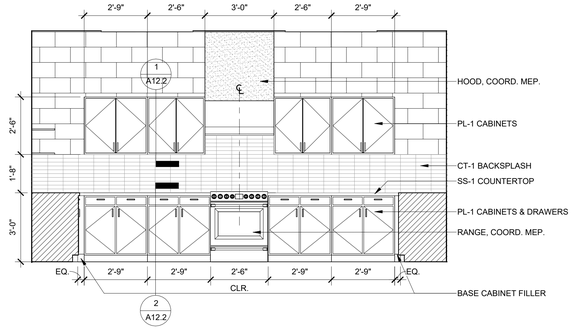
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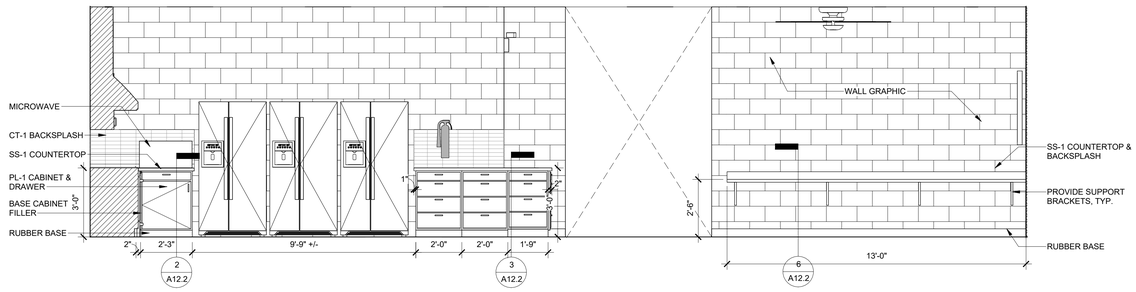
1 A12.1 ENLARGED KITCHEN PLAN
SCALE: 3/8" = 1'-0"



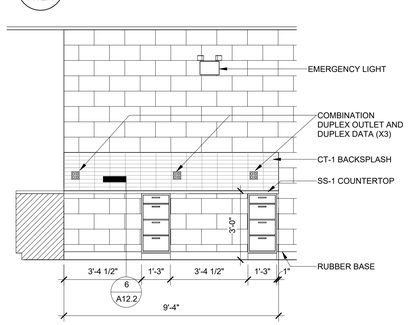
3 A12.1 KITCHEN 119 - EAST
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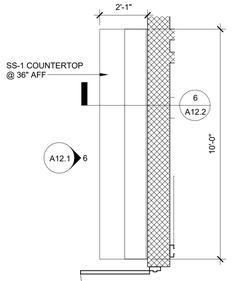
4 A12.1 KITCHEN 119 - SOUTH
SCALE: 3/8" = 1'-0"

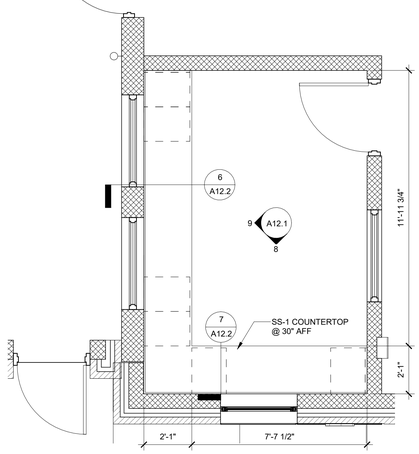


5 A12.1 KITCHEN 119 - WEST
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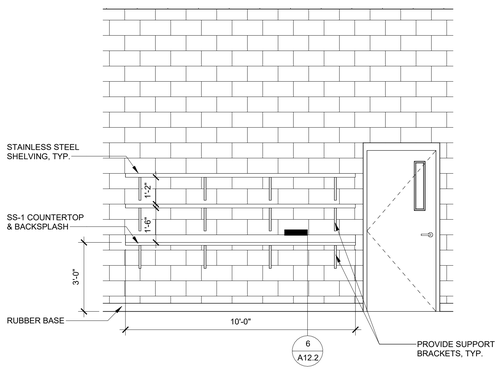


7 A12.1 KITCHEN 119 - COUNTER - SOUTH
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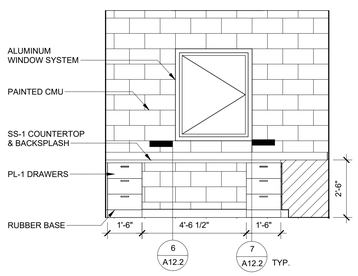




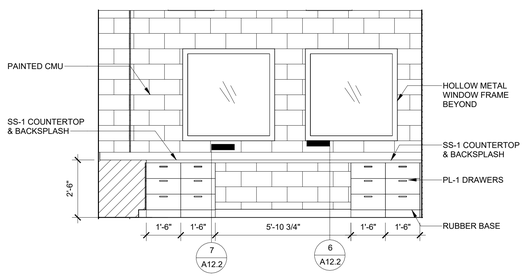
2 A12.1 ENLARGED OFFICE PLAN
SCALE: 3/8" = 1'-0"



6 A12.1 APPARATUS BAY ELEVATION
SCALE: 3/8" = 1'-0"



8 A12.1 OFFICE ELEVATION - SOUTH
SCALE: 3/8" = 1'-0"



9 A12.1 OFFICE ELEVATION - WEST
SCALE: 3/8" = 1'-0"

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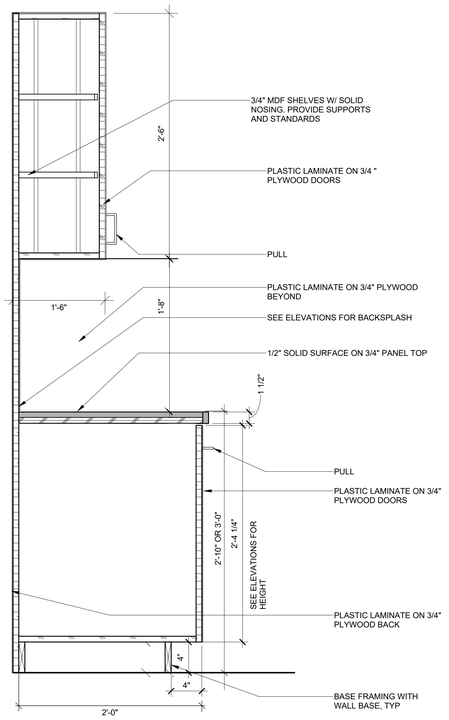
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Date: 8/18/2026
Drawn by: JYW
Checked by: XXX
Revisions:

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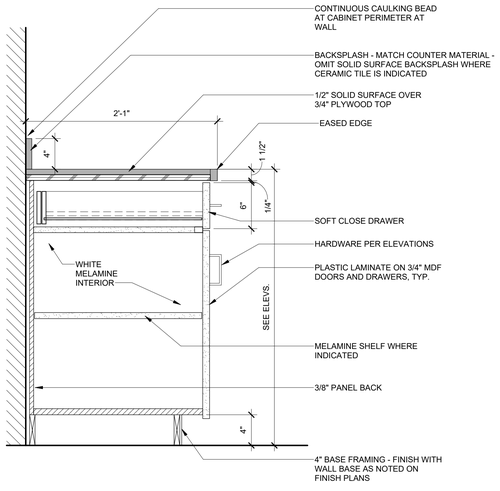
MILLWORK PLANS & DETAILS

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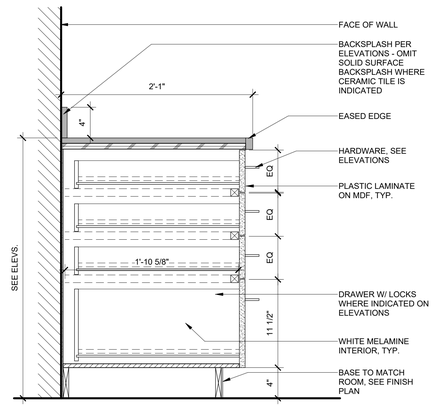
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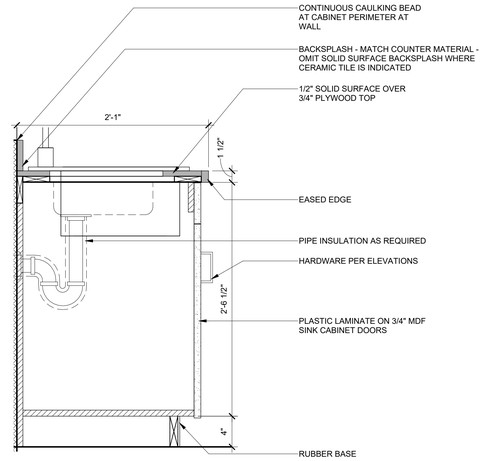
1 A12.2 UPPER AND BASE
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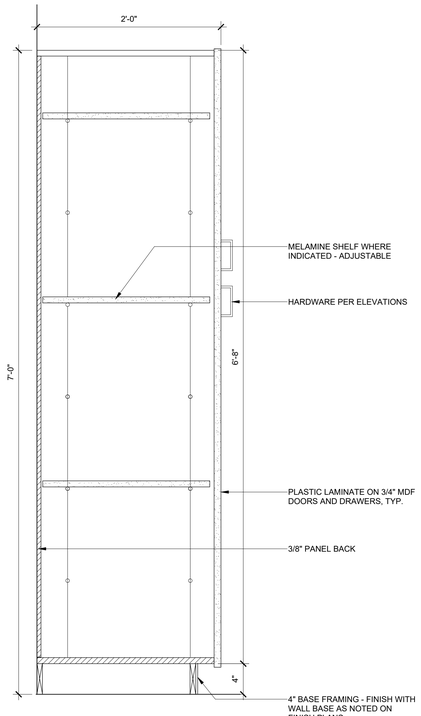
2 A12.2 BASE CAB W/ DRAWER
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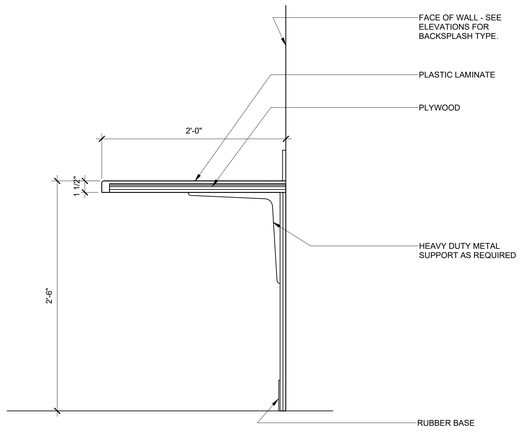
3 A12.2 BASE W/ 4 DRAWERS
SCALE: 1 1/2" = 1'-0"



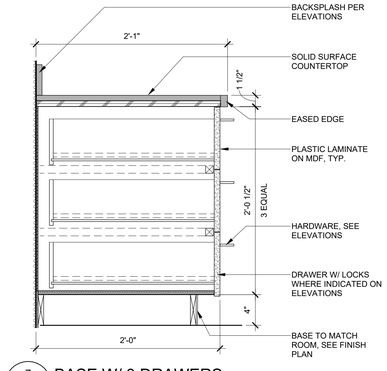
4 A12.2 ADA SINK CABINET
SCALE: 1 1/2" = 1'-0"



5 A12.2 TALL CABINET DETAIL
SCALE: 1 1/2" = 1'-0"



6 A12.2 COUNTERTOP DETAIL
SCALE: 1 1/2" = 1'-0"



7 A12.2 BASE W/ 3 DRAWERS
SCALE: 1 1/2" = 1'-0"

2WR ARCHITECTS
11 Ninth Street, Suite 120
Columbus, GA 31901
P. (706) 571-6923

STATE OF GEORGIA
EMILY ALBRIGHT FLOURNOY
CERTIFICATE NO. RA 019045
REGISTERED ARCHITECT
08/18/2026

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

Project No.:	26-00013
Date:	8/18/2026
Drawn by:	JYW
Checked by:	XXX

Revisions:

No.	Date	Description

MILLWORK DETAILS

A12.2

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GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (2018 EDITION), AND IN STRICT COMPLIANCE WITH GOVERNING MUNICIPAL CODES (CITY, STATE, AND FEDERAL).

2. ASTM SPECIFICATIONS ARE THOSE CONTAINED IN THE LATEST EDITION OF THE STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).

3. IN THE CASE OF A CONFLICT BETWEEN THESE PROJECT SPECIFICATIONS, DRAWINGS, AND/OR THOSE LISTED, REFERENCED SPECIFICATIONS, OR CODE, THE MORE STRINGENT SHALL GOVERN.

4. USE ALL MEANS NECESSARY TO CONTROL DUST ON AND NEAR THE WORK AND ON AND NEAR ALL OFF-SITE BORROW AREAS IF SUCH DUST IS CAUSED BY THE CONTRACTOR'S OPERATIONS DURING PERFORMANCE OF THE WORK OR IF RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE.

5. THOROUGHLY MOISTEN ALL SURFACES AS REQUIRED TO PREVENT DUST BEING A NUISANCE TO THE PUBLIC, NEIGHBORS, AND CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.

6. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS ON THIS PROJECT BEFORE, DURING, AND AFTER INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL WORK AND MATERIALS.

7. ALL WORK SHALL BE ACCOMPLISHED IN A WORKMAN LIKE MANNER. ALL WORK SHALL BE CLEAN AND NEAT AND EASILY INSPECTED.

8. CALCULATED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

9. CONTRACTOR TO VERIFY ALL MEASUREMENTS ON JOB SITE TO ENSURE FIT. IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SHOP DRAWINGS, AND SPECIFICATIONS NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY.

10. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURAL DESIGN OF BUILDING IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS, WITH NO PROVISION FOR CONDITION OCCURRING DURING CONSTRUCTION. THEREFORE, CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION.

11. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES REGARDING INSERTS, CLIPS, OPENINGS, ETC., TO BE PLACED IN THE STRUCTURAL WORK. STRUCTURAL DRAWINGS DO NOT NECESSARILY SHOW ALL OPENINGS IN STRUCTURAL WORK. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN ROOF DECK FROM ARCHITECTURAL DRAWINGS AND APPROVED MECHANICAL, PLUMBING AND ELECTRICAL SHOP DRAWINGS.

12. NO LOADS IN EXCESS OF DESIGN LOADS LISTED SHALL BE PLACED ON ANY AREA DURING CONSTRUCTION, UNLESS ADEQUATE SHORING OR OTHER METHODS APPROVED BY THE ENGINEER ARE PROVIDED TO SUPPORT THE EXCESSIVE LOADS. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE FRAMING UNTIL PERMANENT BRACING IS INSTALLED.

13. WHERE ALIGNMENT OF MATERIALS SUCH AS WALLS AND FACING MATERIALS WILL BE AFFECTED BY DEFLECTIONS AND ROTATIONS OF THE STRUCTURE DURING PLACING OF THE MATERIALS, PLACING PROCEDURES SHALL BE USED WHICH WILL ASSURE THE CORRECT FINAL POSITION OF MATERIALS.

14. ALL NOTES ON STRUCTURAL DRAWINGS SHALL BE ASSUMED TYPICAL UNLESS OTHERWISE SHOWN BY OTHER DETAILS AND/OR SECTIONS.

15. STRUCTURE DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOW DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND SPECIFIED REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS. SECTIONS AND DETAILS ARE TO BE USED IN ALL SIMILAR LOCATIONS UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS.

16. SEE ARCHITECTURAL DRAWINGS FOR WEATHERPROOFING DETAILS.

17. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

18. STRUCTURAL DESIGN DRAWINGS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL PREPARE THEIR OWN SHOP DRAWINGS.

19. MATERIALS:

-CONCRETE (NORMAL WEIGHT - 28 DAY COMPRESSIVE STRENGTH)
-SLAB ON GRADE = 3500 PSI
-FOOTINGS, WALLS AND PILASTERS = 4000 PSI
-REINFORCING = ASTM A615, GRADE 60
-REINFORCING TO BE WELDED = ASTM A706, GRADE 60
-WELDED WIRE FABRIC = ASTM A185
-PLATES, ANGLES AND BARS = ASTM A36, Fy = 36 KSI
-STEEL TUBING (HSS) = ASTM A500, GRADE B, Fy = 46 KSI
-ELECTRODES FOR WELDING = AWS SERIES E70XX
-FRAMING ANCHORS (CONCRETE) = HILTI OR EQUIVALENT

20. FIELD VERIFY ALL EXISTING ABOVE AND BELOW GROUND CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTIONS.

21. THE STRUCTURAL DESIGN OF BUILDING IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS, WITH NO PROVISION FOR CONDITION OCCURRING DURING CONSTRUCTION. THEREFORE, CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION.

FOUNDATION NOTES

1. ALL FOUNDATIONS ARE DESIGNED BASED UPON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 2,000 PSF. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR RETAIN THE SERVICES OF A LICENSED GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF GEORGIA TO VERIFY ALLOWABLE BEARING CAPACITY.

2. FOOTINGS AND PIERS SHOWN ON PLAN ARE DIAGRAMMATIC ONLY. REFER TO SCHEDULES AND DETAILS FOR SIZE OF EACH FOOTING AND PIER.

3. DIMENSIONS AND LINES SHOWN FOR GRADE BEAMS ARE TO INSIDE BOTTOM EDGE OF GRADE BEAM. TAPER TO SLAB NOT SHOWN FOR CLARITY.

4. CENTER LINE OF COLUMN = CENTER LINE OF FOOTING = CENTER LINE OF ANCHOR BOLT TEMPLATE UNLESS NOTED OTHERWISE.

5. ALL FILL SHALL BE SELECT STRUCTURAL FILL CLASSIFIED AS OR "ENGINEERED FILL". AFTER STRIPPING TOPSOIL FROM AREAS TO BE GRADED REMOVE ALL UNSUITABLE MATERIAL FROM EXPOSED SUB GRADE SURFACE, SUCH AS DEBRIS, TRASH OR ORGANIC MATTER. SOIL SURFACES TO RECEIVE FILL SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER BEFORE FILL IS PLACED.

6. FILL MATERIAL SHOULD BE FREE OF ORGANICS, STONE GREATER THAT SIX INCHES IN DIAMETER, OR OTHER DELETERIOUS MATERIAL. ALL FILL SHALL BE PLACED IN MAXIMUM 8" UNCOMPACTED LIFTS AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY (ASTM D698). COMPACTION SHALL BE AT THE OPTIMUM MOISTURE CONTENT +/- 2%. THE FINAL 12 INCHES (EXISTING SOIL OR ENGINEERED FILL) SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR GUIDANCE ON FILL MATERIAL SPECIFICATIONS AND COMPACTION EQUIPMENT AND PROCEDURES.

7. ALL FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER, AND APPROVED FOR FOOTINGS, PRIOR TO PLACING CONCRETE. ALL FOUNDATIONS SHALL BE CONCRETED PROMPTLY AFTER INSPECTION.

8. BACK FILL AGAINST WALLS SPANNING VERTICALLY SHALL NOT BE PLACED, WHERE POSSIBLE, UNTIL ALL FLOORS AGAINST THOSE WALLS ARE IN PLACE AND AT FULL DESIGN STRENGTH. IF FLOORS CANNOT BE PLACED BEFORE FILL, WALLS SHALL BE ADEQUATELY BRACED TO PREVENT OVER STRESSING OR MOVEMENT.

9. ALL MASONRY WALLS BELOW GRADE SHALL BE BACK FILLED ON BOTH SIDES OF WALL SIMULTANEOUSLY.

10. HORIZONTAL STEPS IN WALL FOOTINGS, IF REQUIRED, SHALL HAVE A MINIMUM SPACING OF DOUBLE THE CHANGE IN ELEVATION.

11. PROTECT STRUCTURAL STEEL ITEMS BELOW GRADE WITH 3" CLEAR COVER OF CONCRETE ENCASEMENT.

12. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION TO DIRECT RAINWATER AWAY FROM FOUNDATION CONSTRUCTION AREAS.

13. COORDINATE EXTERIOR SITE WORK, INCLUDING STEPS, WALKS, WALLS AND FINISHED GRADES, WITH FOUNDATION WORK.

14. ALL SLABS SHALL BE SUPPORTED ON A 4" LAYER OF COMPACTED CLEAN, GRANULAR BASE. THE GRANULAR BASE SHALL BE COMPACTED TO AT LEAST 98% STANDARD PROCTOR DENSITY (ASTM D698). THE GRANULAR BASE SHALL BE COMPRISED OF NATURAL OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940 WITH AT LEAST 95 PERCENT PASSING A 1-1/2" INCH SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE.

15. A MINIMUM 10 MIL VAPOR BARRIER SHALL BE INSTALLED UNDER ALL CONCRETE SLAB WORK. ALL LAPS IN THE VAPOR BARRIER SHALL BE 6" MINIMUM AND SHALL BE TACKED TOGETHER. COORDINATE VAPOR BARRIER REQUIREMENTS WITH ARCHITECTURAL.

16. THE TOPS OF ALL FOOTINGS SHALL BE PLACED A MINIMUM OF 12" BELOW UNDISTURBED GROUND SURFACE.

17. ALL MASONRY FOUNDATION WALLS SHALL BE DAMP PROOFED IN ACCORDANCE WITH CHAPTER 18 OF IBC.

18. SLAB BASE SHOULD BE FINISHED TO THE FOLLOWING TOLERANCES: +0 in/-3/4 in. WHEN MEASURED FROM BOTTOM OF SLAB ELEVATION.

19. AS A MINIMUM, THE GEOTECHNICAL ENGINEER'S SERVICES SHALL INCLUDE:
a. PRIOR TO COMMENCEMENT OF FILLING, THE GEOTECHNICAL ENGINEER SHALL MAKE OPTIMUM MOISTURE AND MAXIMUM DENSITY TESTS IN ACCORDANCE WITH ASTM D698.
b. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE SUBGRADE FOR COMPACTED STRUCTURAL FILL OR CONCRETE FOOTING SUPPORT BEFORE ANY FILL IS PLACED OR CONCRETE IS POURED.
c. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE COMPACTION OPERATIONS.
d. THE GEOTECHNICAL ENGINEER SHALL RENDER FULL-TIME FIELD INSPECTION DURING FILLING OPERATIONS AND SHALL DETERMINE THE DENSITY OF EACH LAYER OF FILL.
e. RECORDS OF ALL TESTING SHALL BE MAINTAINED BY THE GEOTECHNICAL ENGINEER AND COPIES OF THE SAME BE SENT DIRECTLY TO THE ENGINEER.
f. THE FOLLOWING IS THE MINIMUM COMPACTION TESTING FREQUENCIES:
-ONE COMPACTION TEST SHALL BE MADE FOR EVERY 500 SQUARE FEET OF FILL AT EACH 12" LIFT.
-ONE COMPACTION TEST SHALL BE MADE FOR EVERY 500 SQUARE FEET OF COMPACTED GRANULAR FILL.
-COMPACTION TESTS SHOULD BE PERFORMED ON THE SUB-BASE BELOW STRIP FOOTINGS AT A MIMIMUM OF EVERY 50'.

CLASS B SPLICE LENGTHS

BAR SIZE	SPLICE LENGTH (3000 PSI CONCRETE)	SPLICE LENGTH (4000 PSI CONCRETE)
#3	17"	16"
#4	23"	20"
#5	29"	25"
#6	35"	30"
#7	62"	54"
#8	72"	62"

MASONRY NOTES

1. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 560/ASCE 5) AND "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6) PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, EXCEPT AS MODIFIED BY THE CONTRACTOR DOCUMENTS.

2. CONCRETE BLOCK UNITS SHALL BE NORMAL WEIGHT, HOLLOW, LOAD BEARING UNITS AND COMPLY WITH ASTM C90, GRADE N, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET AREA. ALL BLOCK SHALL BE TYPE 1, MOISTURE CONTROLLED UNITS.

3. BRICK UNITS SHALL COMPLY WITH ASTM C62, GRADE SW, 6000 PSI COMPRESSIVE STRENGTH.

4. ALL MORTAR IS TO BE IN ACCORDANCE WITH ASTM C270. UNLESS NOTED OTHERWISE, MORTAR FOR EXTERIOR AND FOUNDATION WALL MASONRY SHALL BE TYPE "S", PORTLAND CEMENT/LIME MORTAR. MORTAR FOR INTERIOR LOAD BEARING MASONRY SHALL BE TYPE S. MORTAR FOR INTERIOR NON-LOADBEARING MASONRY SHALL BE TYPE N OR S.

5. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL CONCRETE MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'M) OF 1500 PSI. ALL BRICK MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI. COMPRESSIVE STRENGTH SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD.

6. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 (S1). NEW BILLET STEEL DEFORMED BARS SHALL BE GRADE 60.

7. ALL MASONRY REINFORCING STEEL SHALL BE INSTALLED IN ACCORDANCE WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCING".

8. MASONRY JOINT REINFORCEMENT IS TO COMPLY WITH ASTM A951, MILL GALVANIZED CARBON STEEL WIRE FOR INTERIOR WALLS AND HOT-DIP GALVANIZED, CARBON STEEL WIRE FOR EXTERIOR WALLS. HORIZONTAL JOINT REINFORCEMENT IS TO BE EITHER LADDER OR TRUSS TYPE WITH SINGLE PAIR OF SIDE RODS AND CROSS RODS SPACED NO MORE THAN 16" O.C. LAP REINFORCEMENT A MINIMUM OF 6". PLACE MORTAR ON JOINT REINFORCEMENT WHERE THE CAVITY WALL IS 4" OR MORE. HORIZONTAL JOINT REINFORCEMENT SHALL BE PROVIDED WITHIN 16" OF THE TOP AND BOTTOM OF WALLS.

9. ALL ANCHOR BOLTS AND REINFORCING IN MASONRY SHALL BE COMPLETELY GROUTED. GROUT FOR COLLAR JOINTS IN WALLS SHALL BE MORTAR. GROUT FOR REINFORCING BARS AND ANHOR BOLTS SHALL BE SAND AGGREGATE CEMENT GROUT. MASONRY CELLS TO BE GROUTED SHALL BE CLEAR OF MORTAR FINS, DEBRIS OR OTHER OBSTRUCTIONS, SUCH THAT THE FLOW OF GROUT IS NOT INHIBITED.

10. ALL GROUT FOR GROUTING MASONRY BLOCK CORES SHALL BE MIN. 3000 PSI SAND AGGREGATE CEMENT GROUT, MEETING ASTM C476. SLUMP FOR THIS GROUT SHALL BE 8". MAXIMUM GROUT LIFT TO BE 5 FT. ALLOW A MINIMUM OF 24 HOURS FOR MASONRY TO SET PRIOR TO GROUTING. ROD OR VIBRATE GROUT DURING PLACEMENT TO INSURE SOLID GROUTING. ALLOW AT LEAST 15 MINUTES BETWEEN SUCCESSIVE LIFTS.

11. ALL MASONRY AND COLLAR JOINTS BELOW FINISHED FLOOR ELEVATION ARE TO BE GROUTED SOLID.

12. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF MASONRY CONTROL JOINTS.

13. USE A FULL MORTAR BED FOR FIRST STARTER COURSE. USE FACE SHELL MORTAR BEDS ABOVE.

14. ALL REINFORCING BARS ARE TO BE LAPPED IN ACCORDANCE WITH ACI 530-99. SPLICE LENGTH TO BE 48" X BAR DIAMETER BUT NOT LESS THAN 12".

15. DURING ERECTION, COVER TOP OF WALLS WITH WATERPROOF SHEETING AT END OF EACH DAY'S WORK. COVER PARTIALLY COMPLETED STRUCTURES WHEN WORK IS NOT IN PROGRESS.

16. DO NOT APPLY UNIFORM FLOOR OR ROOF LOADING FOR AT LEAST 12 HOURS AFTER BUILDING MASONRY WALLS.

17. DO NOT APPLY CONCENTRATED LOADS FOR AT LEAST 3 DAYS AFTER BUILDING MASONRY WALLS OR COLUMNS.

18. ALL CMU IS TO BE LAYED WITH RUNNING BONDS WITH VERTICAL JOINTS LOCATED AT CENTER OF MASONRY UNITS IN THE ALTERNATE COURSE BELOW.

19. PROVIDE CONTINUITY AT ALL WALL CORNERS BY CONFORMING TO ONE OF THE FOLLOWING:
a. FIFTY PERCENT OF THE MASONRY UNITS AT THE INTERFACE SHALL INTERLOCK.
b. WALLS SHALL BE REGULARLY TOOTHED WITH 8 IN. MAXIMUM OFFSETS AND ANCHORED BY STEEL CONNECTORS WITH A MINIMUM SIZE OF ¼" x 1 ½" x 28" INCLUDING 2" LONG 90 DEGREE BEND AT EACH END TO FORM A U OR Z SHAPE. ANCHORS ARE TO BE SPACED VERTICALLY AT 4' O.C.

20. THE ADHESIVE REQUIRED FOR ANCHORAGE INTO GROUT FILLED CONCRETE MASONRY UNITS SHALL BE HILTI HIT HY 150 OR EQUAL. THE ADHESIVE REQUIRED FOR ANCHORAGE INTO HOLLOW CONCRETE UNITS SHALL BE HILI HIT HY 20 OR EQUAL. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION PROCEDURES.

21. ANCHORS USED FOR MASONRY ATTACHMENT SHALL BE STANDARD HAS ROD MATERIAL MEETING THE REQUIREMENTS OF ASTM A36. ANCHOR RODS SHALL BE FURNISHED WITH CHAMFERED ENDS.

STEEL LINTEL SCHEDULE:

FOR EACH 4" THICKNESS OF WALL, THE FOLLOWING ITEMS SHALL BE USED:

STEEL (FOR BRICK WORK)

2'-0" - 5'-0"	L4" x 3 ½" x ¼ " LLV
5'-0" - 6'-0"	L4" x 3 ½" x 5/16" LLV
6'-0" - 7'-0"	L5" x 3 ½" x 5/16" LLV
7'-0" - 8'-0"	L5" x 3 ½" x 3/8" LLV
8'-0" - 9'-0"	L6" x 3 ½" x 3/8" LLV
9'-0" - 10'-0"	L7" x 4" x 3/8" LLV

1. LINTELS SHALL BEAR 8" MINIMUM EACH END UNLESS NOTED OTHERWISE AT L7"x4" BEAR 12" MIN. EACH END.

2. GROUT SOLID BETWEEN BACK TO BRICK AND ANGLE.

3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS AT ALL STRUCTURAL SECTIONS AND DETAILS.

4. PROVIDE 12 ga. CLOSURE PLATE AS REQUIRED.

CONCRETE NOTES

1. ALL DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL, FORM WORK, MIXING, HANDLING, PLACING, FINISHING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315) AND ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318).

2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

3. TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

4. CONCRETE SHALL CONFORM TO ASTM C94. MINIMUM STRENGTH AT 28 DAYS SHALL BE 3500 PSI FOR ALL CONCRETE. UNLESS NOTED OTHERWISE MAXIMUM WATER-CEMENT RATIO SHALL BE 0.50, WITH MAXIMUM SLUMP 4 INCHES. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 1 1/2" INCH. AND ALL AGGREGATES SHALL CONFORM TO ASTM C33. NO FLY ASH WILL BE UTILIZED IN THE CONCRETE MIX DESIGN.

5. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

6. CONCRETE SLABS ON GRADE SHALL BE FINISHED TO THE FOLLOWING TOLERANCES: COMPOSITE FLATNESS (FF) = 25, COMPOSITE LEVELNESS (FL) = 20.

7. EXTERIOR CONCRETE SHALL BE AIR ENTRAINED. AIR CONTENT TO BE BETWEEN 4 AND 6 PERCENT BY VOLUME. MAXIMUM WATER-CEMENT RATIO SHALL BE 0.50.

8. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 (S1). NEW BILLET STEEL DEFORMED BARS SHALL BE GRADE 60. WELDED WIRE FABRIC (WWF) TO MEET ASTM A185. MINIMUM WWF LAP AT SPLICES TO BE 8 INCHES.

9. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED. STAGGER SPLICES WHERE POSSIBLE. UNLESS NOTED OTHERWISE ALL REINFORCING BAR SPLICES SHALL BE ACI CLASS B TENSION LAP SPLICES.

10. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT NEAREST THE DESCRIBED SURFACE, UNLESS OTHERWISE NOTED:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
6 OR LARGER BARS: 2 IN.
5 OR SMALLER BARS: 1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS: 1"
BEAM STIRRUPS AND COLUMN TIES: 1 1/2"

11. UNLESS OTHERWISE SHOWN ALL SLABS ON GRADE SHALL BE 4" CONCRETE WITH 6x6xW2.1xW2.1 WELDED WIRE FABRIC (1-1/2" CLEAR FROM TOP OF SLAB). WWF SHEETS ARE REQUIRED IN LIEU OF ROLLS. WELDED WIRE FABRIC SHALL BE SET ON SUPPORTS DURING CONCRETE POURING. "PULL UP" AND "WALKED IN" METHODS ARE PROHIBITTED.

12. UNLESS NOTED OTHERWISE, SLABS ON GRADE SHALL HAVE EITHER CONSTRUCTION JOINTS OR SAW CUT JOINTS SPACE SO THAT THE JOINTS FORM PANELS IN THE SLAB, WITH NO SLAB PANNEL GREATER THAN 225 SQUARE FEET NOR MORE THAN 15 FEET IN ANY ONE DIRECTION. INSTALL SAW CUT CONTROL JOINTS AS SOON AS THE SLAB IS CAPABLE OF BEING SAWN WITHOUT RAVELING, BUT IN NO CASE LATER THAN 8 HOURS AFTER FINAL FINISHING HAS BEGUN.

13. INTERIOR SLAB CONCRETE SHALL RECEIVE A STEEL TROWEL FINISH. IMMEDIATELY FOLLOWING FINISHING THE CONCRETE SHALL BE PROTECTED FROM PREMATURE OR EXCESSIVE DRYING, TEMPERATURE EXTREMES AND INJURY. COORDINATE CURING PROCEDURES WITH FLOOR FINISH REQUIREMENTS. AIR CONTENT OF FLOORS TO RECEIVE TROWEL FINISH SHALL NOT EXCEED 3 PERCENT.

14. TAKE 5 CYLINDERS OF EACH CONCRETE POUR. TEST 2 AT 7 DAYS AND 2 AT 28 DAYS. HOLD ONE CYLINDER FOR POSSIBLE TEST UNTIL 60 DAYS, THEN DISPOSE OF TEST NOT REQUESTED. SEND REPORTS TO ARCHITECT AND STRUCTURAL ENGINEER.

15. THE PROPOSED MATERIALS SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNERS TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.

16. ALL CONCRETE FORM WORK SHALL BE NEW PLYWOOD HAVING A FINISHED SURFACE AND THICKNESS SUFFICIENT TO PRODUCE STRAIGHT AND TRUE SURFACES. THE SIDES OF ALL FOOTINGS SHALL BE FORMED.

17. HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED OR APPROVED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTUAL ENGINEER. AT ALL COLD JOINTS SCARIFY AND APPLY AN EPOXY BONDING AGENT OVER OLDER CONCRETE.

GENERAL WOOD FRAMING NOTES

1. END-JOINTED LUMBER MAY BE USED INTERCHANGEABLY WITH SOLID SAWN LUMBER OF THE SAME GRADE AND SPECIES. SUCH USES SHALL INCLUDE, BUT ARE NOT LIMITED TO, LIGHT FRAMING, STUDS, JOISTS, PLANKS AND DECKING.

2. ALL LUMBER AND WOOD STRUCTURAL PANEL MEMBERS, INCLUDING PRESERVATIVE-TREATED, 2-INCH THICK AND LESS SHALL CONTAIN NOT MORE THAN 19% MOISTURE AT THE TIME OF PERMANENT INCORPORATION IN A BUILDING OR STRUCTURE.

3. ALL CONSTRUCTION PRACTICES AND FRAMING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 2304 OF THE INTERNATIONAL BUILDING CODE.

4. THE NUMBER AND SIZE OF NAILS OR STAPLES CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THOSE SPECIFIED IN TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE. WHERE NAILS OF A TYPE OTHER THAN THOSE SHOWN IN THE TABLE ARE USED, THE NUMBER AND SPACING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.

5. FASTENINGS FOR PRESERVATIVE-TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL, SILICON BRONZE OR COPPER.

6. ROOF DECKING SHALL BE EXPOSURE I, ½" (NOMINAL) THICK APA RATED SHEATHING WITH A 32/16 SPAN RATING OR IN ACCORDANCE w/ ARCHITECTURAL UL RATING. ALL PANEL EDGES SHALL BE SUPPORTED WITH 2x4 BLOCKING.

7. ALL SILL PLATES IN CONTACT WITH CONCRETE OR MASONRY AND EXPOSED LUMBER SHALL BE PRESSURE-TREATED PER AWPA SPECIFICATIONS. EXPOSED ENGINEER LUMBER BEAMS SHALL BE PRESSURE-TREATED PSL HAVING A MAXIMUM MOISTURE CONTENT OF 28% (SERVICE LEVEL 2).

8. WHERE WOOD FRAMING CONNECTIONS ARE NOT SPECIFICALLY CALLED OUT ON THE PLANS, PROVIDE SHOP DRAWINGS FOR REVIEW FOR JOIST HANGERS, CLIPS, STRAPS ETC.

9. ALL PLATE MATERIAL SHALL BE #2 S.Y.P.

WOOD TRUSS NOTES

1. METAL PLATE CONNECTED WOOD TRUSSES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ANSO/TP1 1, NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.

2. WOOD ROOF TRUSSES SHALL BE DESIGNED AND FABRICATED BY A MEMBER FIRM OF THE TRUSS PLATE INSTITUTE TO CARRY THE FULL DEAD AND LIVE LOADS AT THE INDICATED SPACINGS AND SPANS.

3. CONNECTIONS BETWEEN TWO OR MORE WOOD MEMBERS, ALL OF WHICH ARE DESIGNED OR SPECIFIED BY THE TRUSS DESIGNER, SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS DESIGNER. CONNECTIONS BETWEEN TWO OR MORE WOOD MEMBERS, ONE OR MORE OF WHICH ARE NOT DESIGNED OR SPECIFIED BY THE TRUSS DESIGNER, SHALL BE DESIGNED AND SPECIFIED BY THE BUILDING DESIGNER. CONTRACTOR TO NOTIFY BUILDING DESIGNER OF ANY REQUIREMENTS AND SHALL ALLOW APPROPRIATE TIME FOR BUILDING DESIGNER TO DESIGN REQUIRED CONNECTION.

COMPONENTS & CLADDING WIND PRESSURES:
(WITHOUT ANY LOAD COMB. REDUCTIONS)

WALLS - ZONE 4 = +23.0 PSF, -24.9 PSF
- ZONE 5 = +23.0 PSF, -30.7 PSF

ROOF - ZONES 1,2,3 = +17.2
- ZONE 1m = -28.8
- ZONE 1g = -28.8
- ZONE 2em = -38.5
- ZONE 2eg = -38.5
- ZONE 2r = -50.2
- ZONE 3 = -38.5

EDGE STRIP (a) = 8'-0"

WINDOW DESIGN PRESSURES USING ALLOWABLE STRESS DESIGN AND LOAD COMBINATION (D+.6W):

WALLS - ZONE 4 = +13.8 PSF, -15.0 PSF
- ZONE 5 = +13.8 PSF, -18.5 PSF

SEISMIC LOADS (PER IBC)

RISK CATEGORY IV
SEISMIC IMPORTANCE FACTOR = 1.5

SPECTRAL RESPONSE COEFFICIENTS
Ss = 0.144g
S1 = 0.078g
Sds = 0.154g
Sd1 = 0.125g
SITE CLASS D
SEISMIC DESIGN CATEGORY C

BLOCK SHEAR WALLS :
SEISMIC RESPONSE COEFFICIENTS (Cs) = 0.116
RESPONSE MODIFICATION FACTOR (R) = 2
SEISMIC DESIGN CATEGORY C

GROUND SNOW LOAD (Pg) = 5 psf
SNOW IMPORTANCE FACTOR = 1.2
ICE IMPORTANCE FACTOR = 1.25

BASIC SEISMIC-FORCE-RESISTING SYSTEMS ARE ORDINARY REINFORCED MASONRY SHEAR WALLS.

EQUIVALENT LATERAL FORCE PROCEDURE WAS UTILIZED TO OBTAIN SEISMIC FORCES.

TRUSS DESIGN LOADS TO BE AS FOLLOWS:

	ROOF TRUSSES
TOP CHORD LIVE LOADS	20 PSF
BOTTOM CHORD DEAD LOAD	10 PSF
TOP CHORD DEAD LOAD	10 PSF
UPLIFT LOAD	PER ASCE 7-16

ALL TRUSS TOP CHORDS TO BE 2x6 TYP.

FRAMING NOTES

1. ALL WORK SHALL COMPLY WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE, AND IN STRICT COMPLIANCE WITH GOVERNING MUNICIPAL CODES (CITY, STATE, AND FEDERAL).

DESIGN LOADS:

LIVE LOADS (PER FBC)

ROOF = 20 PSF

WIND LOADS (PER ASCE)
ULTIMATE DESIGN WIND SPEED (3 SECOND GUST) = 120 MPH
BUILDING CATEGORY = IV
WIND EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT (GCpi) = ±0.18
WIND FORCES ARE CALCULATED USING THE DIRECTIONAL PROCEDURE

COMPONENTS & CLADDING WIND PRESSURES:
(WITHOUT ANY LOAD COMB. REDUCTIONS)

WALLS - ZONE 4 = +23.0 PSF, -24.9 PSF
- ZONE 5 = +23.0 PSF, -30.7 PSF

ROOF -

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS OF LATEST EDITION:
   (a) AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (ALLOWABLE STRESS DESIGN), WHERE THE MATERIAL USED CONSISTS OF PLATES, SHAPES, OR BARS.
   (b) AMERICAN IRON AND STEEL INSTITUTE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, FOR MEMBERS WHICH ARE FORMED FROM SHEET OR STRIP MATERIAL.

2. UNLESS NOTED OTHERWISE ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
   PLATES, SHAPES, AND BARS: ASTM A36 OR A572 (Fy=36 OR 50 ksi).
   STRUCTURAL TUBING: ASTM A500, GRADE B (Fy=42 ksi).
   STRUCTURAL PIPE: ASTM A53, GRADE B (Fy=36 ksi).
   HIGH STRENGTH BOLTS: ASTM A325N, TYPE I.
   NUTS FOR HIGH STRENGTH BOLTS: ASTM A563DH.
   WASHERS: ASTM F436.
   ANCHOR BOLTS: ASTM A307. FURNISH WITH HEAVY HEX NUTS.

3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING MEMBER SIZES, LOCATIONS, AND SPACING FOR APPROVAL PRIOR TO MANUFACTURING.

4. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR DESIGN. FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS SHALL COMPLY TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, LATEST EDITION.

5. WELDS SHALL BE E70XX ELECTRODES AND SHALL MEET ASW D1.1. WELDING SHALL BE PERFORMED BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE PROVISIONS OF THE "STRUCTURAL WELDING CODE - STEEL" OF THE AMERICAN WELDING SOCIETY.

6. HIGH STRENGTH BOLTS SHALL BE SNUG TIGHT UNLESS NOTED OTHERWISE AS SLIP-CRITICAL (S.C.) OR FULLY TIGHTENED (F.T.) ON DRAWINGS.

7. SURFACE PREP ALL INTERIOR STRUCTURAL STEEL WITH SSPC-PAINT 25. TYPE II. IRON OXIDE. ZINC OXIDE. RAW LINSEED OIL AND ALKYD.

8. PAINT STRUCTUAL STEEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DO NOT PAINT STEEL SURFACES TO BE ENCASED IN CONCRETE, WELDED CONNECTIONS, OR CONNECTIONS DESIGNATED AS FRICTION TYPE.

9. NO OPENINGS SHALL BE CUT IN STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS AND APPROVED BY THE ENGINEER.

10. CONTRACTOR TO VERIFY ALL CONDITIONS AND ALL DIMENSIONS PRIOR TO FABRICATION OF STEEL. NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY IF ANY DISCREPANCIES EXIST.

11. CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL EQUIPMENT LOADS AND ANCHORING REQUIREMENTS WITH THE STEEL JOIST MANUFACTURER.

SCHEDULE OF SPECIAL INSPECTION SERVICE

PROJECT	TROUP COUNTY FIRE STATION				
			APPLICABLE TO THIS PROJECT		
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	DATE COMPLETED
1704.2.5 Inspection of Fabricators					
Verify fabrication/quality control procedures.	In-plant review	N	Periodic		
1705.2 Steel Construction (i.a.w. AISC 360)					
Material verification of high-strength bolts, nuts, and washers.	Review material markings and certificates of compliance	Y	Periodic	1	
Inspection of high-strength bolting:	Field inspection				
a. Snug-tight joints		Y	Periodic	1	
b. Pre-tensioned and slip-critical joints			-		
1) Turn-of-nut with matching markings		N	Periodic		
2) Direct tension indicator		N	Periodic		
3) Twist-off bolt		Y	Periodic	1	
4) Turn-of-nut without matching markings		N	Continuous		
5) Calibrated wrench		N	Continuous		
Material verification of structural steel:					
a. Identification markings	Field inspection	Y	Periodic	1	
b. Certified mill tests	Review submittals	Y	Each submittal	1	
Weld filler materials.	Review certificate of compliance and field verification	Y	Periodic	1	
Structural steel welding:	Shop and field inspection				
a. Complete and partial penetration groove welds		Y	Continuous	1	
b. Multi-pass fillet welds		N	Continuous		
c. Single-pass fillet welds > 5/16"		N	Continuous		
d. Single-pass fillet welds < 5/16"		Y	Periodic	1	
e. Floor and deck welds		N	Periodic		
Reinforcing steel welding:	Shop and field inspection				
a. Verification of weldability of steel other than ASTM A 706		Y	Periodic	1	
b. Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special concrete shear walls, and shear reinforcement		N	Continuous		
c. Shear reinforcement		Y	Continuous	1	
d. Other reinforcing steel		Y	Periodic	1	
Inspection of steel frame joint details for compliance with approved construction documents.	Field inspection				
a. Details such as bracing & stiffening		N	Periodic		
b. Member locations		N	Periodic		
c. Application of joint details at each connection		N	Periodic		
1705.3 Concrete Construction					
Inspection of reinforcing steel installation.	Field inspection	Y	Periodic.	1	
Inspection of prestressing steel installation.	In-plant or field review	N	Periodic		
Inspection of prestressed concrete:	In-plant or field review	N			
a. Application of prestressing force		N	Continuous		
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system		N	Continuous		
Inspection of anchor bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased per IBC section 1911.5 or where strength design is used	Field inspection	Y	Continuous	1	
Inspection of anchors and reinforcing steel installed in hardened concrete: verify anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection	Y	Periodic	1	
Verify use of approved design mix	Field review	Y	Periodic	1	
Fresh concrete sampling.	Field testing	Y	Continuous	1	
Inspection of concrete and shotcrete placement for proper application techniques	Field inspection	Y	Continuous	1	
Concrete and shotcrete curing operations.	Field inspection	Y	Periodic	1	
Erection of precast concrete members.	Field inspection	N	Periodic		
Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic	1	
Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	Review field testing and laboratory reports	N	Periodic		
Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic	1	

1705.4 Masonry Construction					
Verify proportions of site prepared mortar, grout and prestressing grout for bonded tendons.	Field and submittal review	N	Periodic		
Verify construction of mortar joints.	Field inspection	Y	Periodic	1	
Verify location of reinforcement and connectors, and placement of prestressing tendons and anchorages.	Field inspection	Y	Periodic	1	
Verify prestressing technique	Field inspection	N	Periodic		
Verify size and location of structural masonry elements.	Field and submittal review	Y	Periodic	1	
Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction.	Field inspection	N	Level 1 - Periodic		
		Y	Level 2 - Continuous	1	
Verify size, grade, and type of reinforcement.	Field inspection	Y	Periodic	1	PRIOR TO ALL POURS
Verify welding of reinforcing bars.	Field inspection	N	Continuous		
Verify protection of masonry during hot/cold weather.	Field inspection	Y	Periodic	1	
Verify grout space is clean prior to grouting.	Field inspection	N	Level 1 - Periodic		
		Y	Level 2 - Continuous	1	
Verify grout placement complies with code and construction document provisions.	Field inspection	Y	Continuous	1	
Testing of grout specimens, mortar specimens, and/or prisms required by construction documents	Field testing	Y	Periodic	1	
Observe preparation of prisms required by construction documents	Field inspection	Y	Continuous	1	
Verify compliance with required testing and inspection provisions of construction documents and the approved submittals.	Field testing and inspection	Y	Periodic	1	
Verify grade and size of prestressing tendons and anchorages.	Field inspection	N	Periodic		
Verify proper grouting of prestressing tendons.	Field inspection	N	Continuous		
Verify application and measurement of prestressing force	Field inspection	N	Level 1 - Periodic		
		N	Level 2 - Continuous		
1705.5 Wood Construction					
Inspection of the fabrication process of wood structural elements and assemblies in accordance with Section 1705.5.2	In-plant review	N	Periodic		
For high-load diaphragms, verification of grade and thickness of structural panel sheathing.	Field inspection	N	Periodic		
For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agrees with approved bldg plans.	Field inspection	N	Periodic		
1705.6 Soils					
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic	1	
Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic	1	
Perform classification and testing of controlled fill materials.	Field inspection	Y	Periodic	1	
Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous	1	
Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic	1	
1705.7 Pile Foundations					
Verify pile materials, sizes and lengths comply with requirements.	Field inspection and submittal review.	N	Continuous		
Verify capacities of test piles and results of additional load tests, as required.	Field inspection and submittal review.	N	Continuous		
Observe pile driving operations and maintain complete and accurate records for each pile	Field inspection and submittal review. Submittal to the bldg official of the results of pile load tests.	N	Continuous		
Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, verify required penetrations to achieve design capacity, record tip and butt elevations, and document any pile damage.	Field inspection and submittal review	N	Continuous		
For steel piles, perform additional inspections per Section 1705	See Section 1705.7	N	See Section 1704.3		
For concrete piles and concrete-filled piles, perform additional inspections per Section 1705	See Section 1705.8	N	See Section 1704.4		
For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	Field inspection as required by E.O.R.	N	Periodic		
		N	Continuous		

1705.13 Sprayed Fire-resistant Materials					
Verify surface condition preparation of structural members.	Field inspection	N	Periodic		
Verify application of sprayed fire-resistant materials.	Field inspection	N	Periodic		
Verify average thickness of sprayed fire-resistant materials applied to structural members.	Field inspection	N	Periodic		
Verify density of the sprayed fire-resistant material complies with approved fire-resistant design.	Field inspection and submittal review	N	Periodic		
Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material.	Field inspection and submittal review	N	Per IBC Section 1704.10.5		
1705.11.5 Architectural Components Special Inspections for Seismic Resistance					
Inspection during the erection and fastening of exterior cladding and interior and exterior veneer.	Field inspection	N	Periodic		
Inspection during the erection and fastening of interior and exterior non load bearing walls.	Field inspection	N	Periodic		
1705.11.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance					
Inspection during the anchorage of electrical equipment for emergency or standby power systems.	Field inspection	N	Periodic		
Inspection during the anchorage of other electrical equipment.	Field inspection	N	Periodic		
Inspection during installation of piping systems intended to carry flammable, combustible, or highly toxic contents and their associated mechanical units.	Field inspection	N	Periodic		
Inspection during the installation of HVAC ductwork that will contain hazardous materials	Field inspection	N	Periodic		
Inspection during the installation of vibration isolation systems.	Field inspection	N	Periodic		
Certificates of compliance used in masonry construction	Review submittals	N	Each submittal		
Verification of f'm and f'AAC prior to construction	Review submittals	N	Each Submittal		
Verification of f'm and f'AAC every 5000 SF during construction	Review submittals and field testing	N	Periodic		
Verification of proportions of materials in mortar and grout as delivered to the site	Field review	N	Periodic		
170511.8 Seismically Isolated Structures					
Test seismic isolation system in accordance with ASCE 7 Section 17.8	Prototype testing	N	Per ASCE 7		

* INSPECTION AGENTS	FIRM		ADDRESS		TELEPHONE NO.
1. T.B.D.	T.B.D.				

Notes: 1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.

2. The list of Special Inspectors may be submitted as a separate document, if noted so above.

3. Inspection of fabricators is not required where the fabricator is approved in accordance with IBC Section 1704.2.2.

Encircle "Yes" or "No" as appropriate and date this document below:

Are Requirements for Seismic Resistance included in the Statement of Special Inspections?	Yes	
Are Requirements for Wind Resistance included in the Statement of Special Inspections?	Yes	
DATE:		

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GEORGIA REGISTERED PROFESSIONAL ENGINEER GREGORY BRENT WRIGHT

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TROUP COUNTY FIRE STATION - PROTOTYPE
TROUP COUNTY
GEORGIA

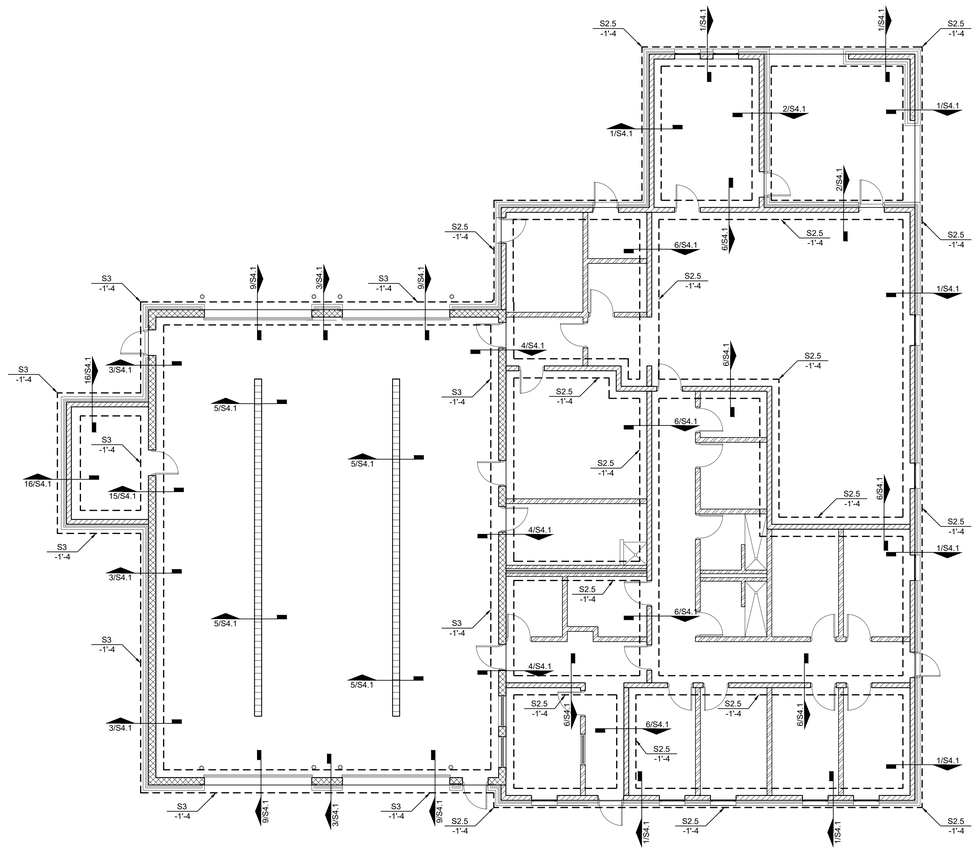
CONSTRUCTION DOCUMENTS

Project No.: 24-01951
Date: 2/15/2025
Drawn by: AJD
Checked by: CLS
Revisions:

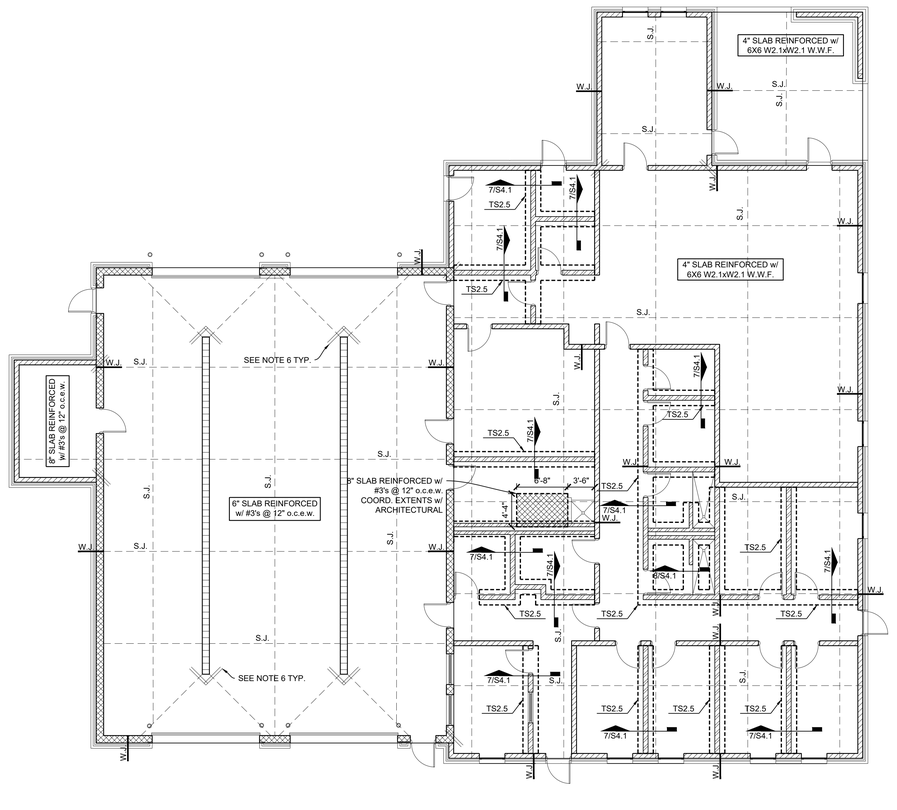
No.	Date	Description

SPECIAL INSPECTIONS

S0.2



1 FOUNDATION PLAN
SCALE: 1/8"=1'-0



2 SLAB & WALL PLAN
SCALE: 1/8"=1'-0

FOOTING SCHEDULE			
MARK NO.	SIZE / DESCRIPTION	REINFORCING	REMARKS
TS2.5	2'-0" x 1'-0" THK.THICKENED SLAB	(3) #5's LONG. #5's LAT @ 24"o.c.	REINFORCE BOTTOM ONLY
S2.5	2'-6" STRIP x1'-4" THK.	(3) #5's LONG. #5's LAT @ 12"o.c.	REINFORCE TOP & BOTTOM
S3	3'-0" STRIP x1'-4" THK.	(4) #5's LONG. #5's LAT @ 12"o.c.	REINFORCE TOP & BOTTOM

NOTE: SEE 2/S1.1 FOR THICKENED SLAB LAYOUT.

PLAN NOTES:

1. " W.J. " ON PLAN DENOTES SLAB CONTROL/CONTRACTION JOINT. INSTALL CONTROL JOINTS IN MASONRY WALLS NO GREATER THAN 25'-0 APART. SEE DETAILS.

2. GROUT FILL ALL MASONRY CELLS BELOW F.F.E. REINFORCING FROM FOUNDATION TO MATCH WALL REINFORCING. ENSURE LAP LENGTHS EXTEND FROM F.F.E. INTO WALL (NOT FOUNDATION ELEVATION.)

3. CONTRACTOR TO COORDINATE ALL PLUMBING REQUIREMENTS/FLOOR DRAINS w/ MEP/ARCH DRAWINGS.

4. SEE DETAILS, COORDINATE TRENCH DRAIN REQUIREMENTS WITH MANUFACTURER AND ARCHITECTURAL.

5. "S.J." ON PLAN INDICATES SAWCUT CONTROL JOINTS OR CONSTRUCTION JOINTS @ CONTRACTORS OPTION. SEE DETAILS 10-13/S4.1.

6. PROVIDE (2) #3 x 16" RE-ENTRANT BARS AT ALL CORNERS.

7. VERIFY ALL DIMENSIONS w/ ARCHITECTURAL DRAWINGS.

8. SLOPE INTERIOR SLABS AS REQUIRED. COORDINATE WITH ARCHITECTURAL.

9. ALLOW SLAB TO CURE FOR 28 DAYS BEFORE ERECTION OF BLOCK BEGINS.

WALL SCHEDULE			
MARK NO.	SIZE / DESCRIPTION	REINFORCING/REMARKS	WALL HATCHES
W1	12" CMU WALL	#6's @ 16" o.c.	
W2	8" CMU WALL	#5's @ 16" o.c.	
W3	NON LOAD BEARING 8" CMU WALL	#5's @ 32" o.c.	

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TROUP COUNTY FIRE STATION - PROTOTYPE
TROUP COUNTY
GEORGIA

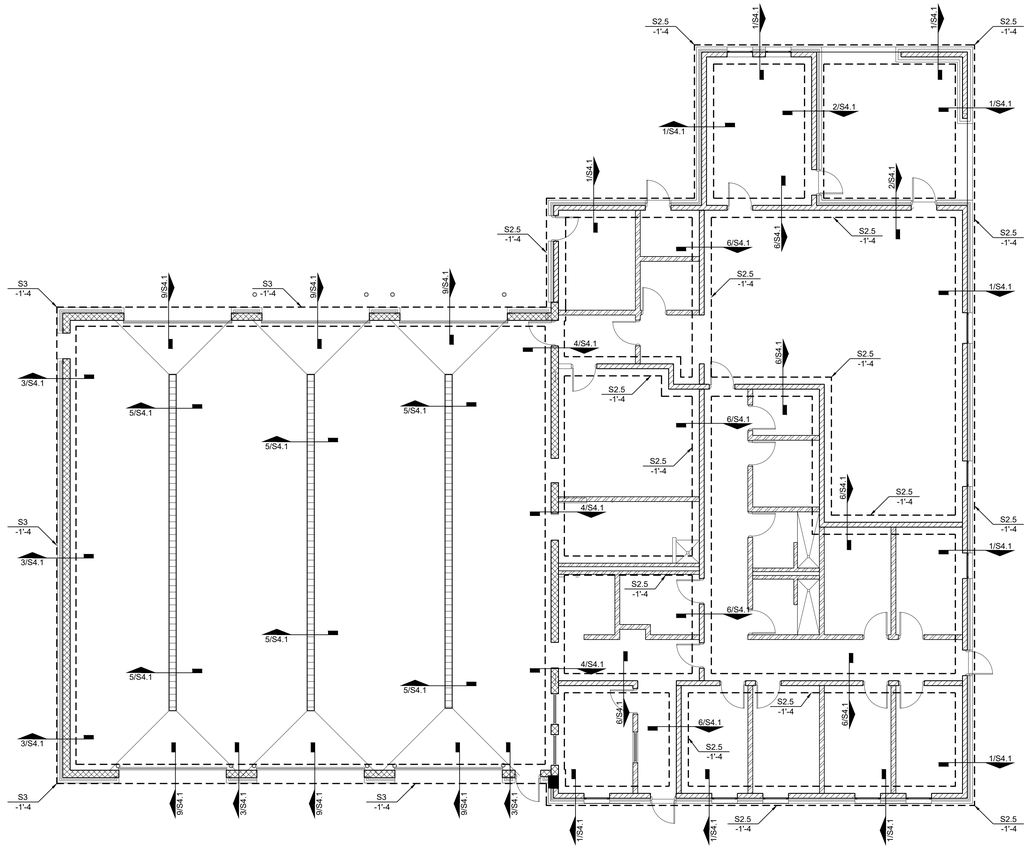
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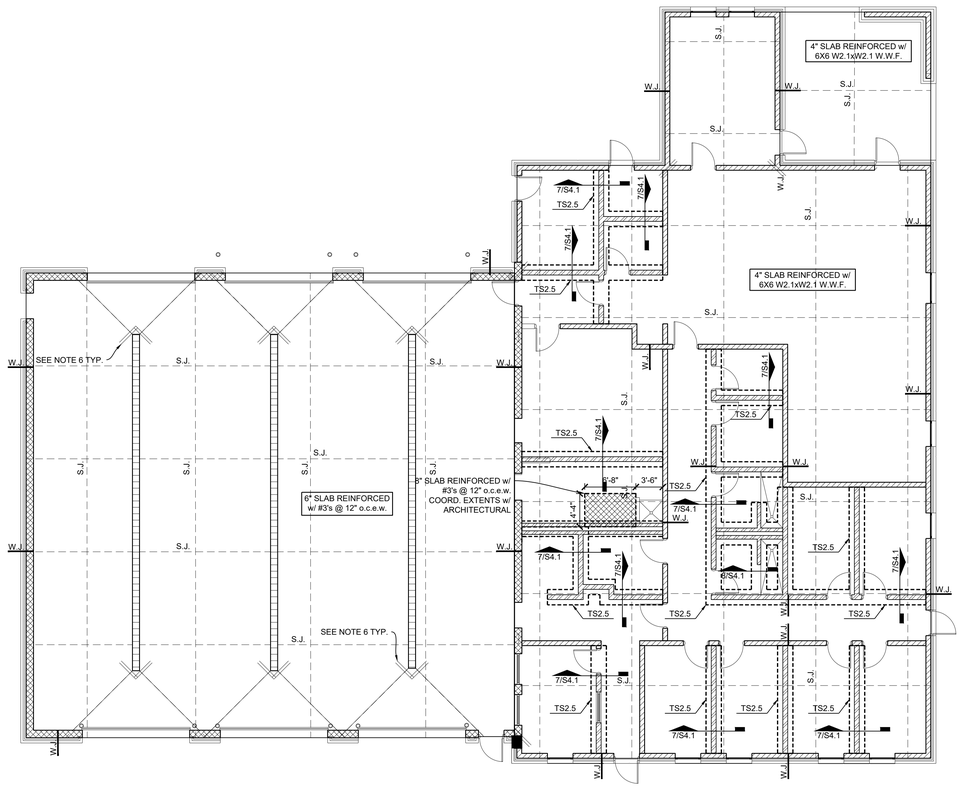
FOUNDATION & SLAB PLANS

S1.1



1 FOUNDATION PLAN

SCALE: 1/8"=1'-0



2 SLAB & WALL PLAN

SCALE: 1/8"=1'-0

FOOTING SCHEDULE			
MARK NO.	SIZE / DESCRIPTION	REINFORCING	REMARKS
TS2.5	2'-0" x 1'-0" THK.THICKENED SLAB	(3) #5's LONG. #5's LAT @ 24"o.c.	REINFORCE BOTTOM ONLY
S2.5	2'-6" STRIP x1'-4" THK.	(3) #5's LONG. #5's LAT @ 12"o.c.	REINFORCE TOP & BOTTOM
S3	3'-0" STRIP x1'-4" THK.	(4) #5's LONG. #5's LAT @ 12"o.c.	REINFORCE TOP & BOTTOM

NOTE: SEE 2/S1.1 FOR THICKENED SLAB LAYOUT.

PLAN NOTES:

1. " W.J. " ON PLAN DENOTES SLAB CONTROL/CONTRACTION JOINT. INSTALL CONTROL JOINTS IN MASONRY WALLS NO GREATER THAN 25'-0 APART. SEE DETAILS.

2. GROUT FILL ALL MASONRY CELLS BELOW F.F.E. REINFORCING FROM FOUNDATION TO MATCH WALL REINFORCING. ENSURE LAP LENGTHS EXTEND FROM F.F.E. INTO WALL (NOT FOUNDATION ELEVATION.)

3. CONTRACTOR TO COORDINATE ALL PLUMBING REQUIREMENTS/FLOOR DRAINS w/ MEP/ARCH DRAWINGS.

4. SEE DETAILS, COORDINATE TRENCH DRAIN REQUIREMENTS WITH MANUFACTURER AND ARCHITECTURAL.

5. "S.J." ON PLAN INDICATES SAWCUT CONTROL JOINTS OR CONSTRUCTION JOINTS @ CONTRACTORS OPTION. SEE DETAILS 10-13/S4.1.

6. PROVIDE (2) #3 x 16" RE-ENTRANT BARS AT ALL CORNERS.

7. VERIFY ALL DIMENSIONS w/ ARCHITECTURAL DRAWINGS.

8. SLOPE INTERIOR SLABS AS REQUIRED. COORDINATE WITH ARCHITECTURAL.

9. ALLOW SLAB TO CURE FOR 28 DAYS BEFORE ERECTION OF BLOCK BEGINS.

WALL SCHEDULE			
MARK NO.	SIZE / DESCRIPTION	REINFORCING/REMARKS	WALL HATCHES
W1	12" CMU WALL	#6's @ 16" o.c.	
W2	8" CMU WALL	#5's @ 16" o.c.	
W3	NON LOAD BEARING 8" CMU WALL	#5's @ 32" o.c.	

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TROUP COUNTY FIRE STATION - PROTOTYPE
TROUP COUNTY
GEORGIA

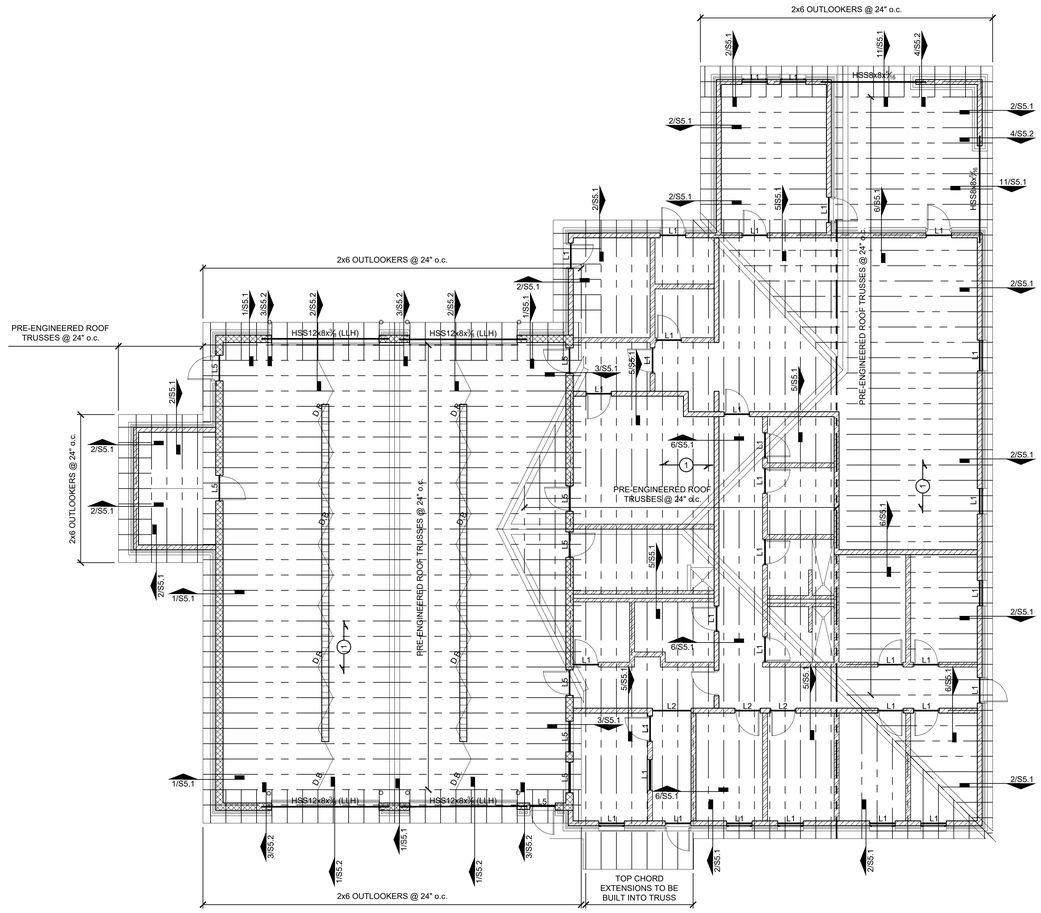
CONSTRUCTION DOCUMENTS

Project No.: 24-01951
Date: 2/15/2025
Drawn by: AJD
Checked by: CLS
Revisions:

No.	Date	Description

FOUNDATION & SLAB PLANS (ALTERNATE)

S1.1A



1 ROOF FRAMING PLAN

SCALE: 1/8"=1'-0

ROOF FRAMING PLAN NOTES:

1. ⟨1⟩ INDICATES ⅞" PLYWOOD OR OSB ROOF DECK MINIMUM OR IN ACCORDANCE w/ ARCHITECTURAL UL REQUIREMENTS - TYPICAL. SEE DETAILS FOR ATTACHMENTS REQUIREMENTS. BLOCK ALL PANEL EDGES.

2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

3. ALL ROOF FRAMING SHALL BE PRE-ENGINEERED WOOD TRUSSES @ 24"o.c. MAX U.N.O.

4. "DB" ON PLAN INDICATES LOCATIONS OF DIAGONAL TRUSS BRACING, SEE DETAIL.

5. CONTRACTOR SHALL COORDINATE ALL ROOF TRUSS CONNECTION REQUIREMENTS WITH FINAL REVIEWED ROOF TRUSS SHOP DRAWINGS. CONNECTIONS ARE SUBJECT TO CHANGE BASED ON ROOF TRUSS MANUFACTURER'S FINAL REACTIONS.

6. PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND REACTIONS FOR ALL PRE-FABRICATED CANOPIES

LINTEL SCHEDULE

MARK NO.	SIZE / DESCRIPTION	REINFORCING	REMARKS
L1	8"x8" DEEP BOND BEAM	(2)- #5s LONG.	GROUT FILL ALL CELLS
L2	8"x16" DEEP BOND BEAM	(4)- #5s LONG. (2 EACH COURSE)	GROUT FILL ALL CELLS
L3	8"x24" DEEP BOND BEAM	(6)- #5s LONG. (2 EACH COURSE)	GROUT FILL ALL CELLS
L4	12"x8" DEEP BOND BEAM	(2)- #5s LONG.	GROUT FILL ALL CELLS
L5	12"x16" DEEP BOND BEAM	(4)- #5s LONG. (2 EACH COURSE)	GROUT FILL ALL CELLS
L6	12"x24" DEEP BOND BEAM	(6)- #5s LONG. (2 EACH COURSE)	GROUT FILL ALL CELLS
SEE DETAIL 6/S4.0 FOR ALL OPENING JAMB REQUIREMENTS			

ROOF TRUSS CONNECTION SCHEDULE

CONDITION	CONNECTION
TRUSS @ LOWER ROOF	HTSM16+(2)H3
TRUSS @ HIGHER ROOF	(2)HTSM16+(2)H3
INTERIOR CMU BEARING WALL	(4)H3
STEEL ROOF BEAM	SEE DETAILS
HIP TRUSS	VGT W/ ¾" THREADED ROD 5" MIN EMBED INTO BOND BEAM w/ 3" HOOK OR WELDED TO STEEL BEAM
1-PLY GIRDER	
2-PLY GIRDER	
3-PLY GIRDER	

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TROUP COUNTY GEORGIA

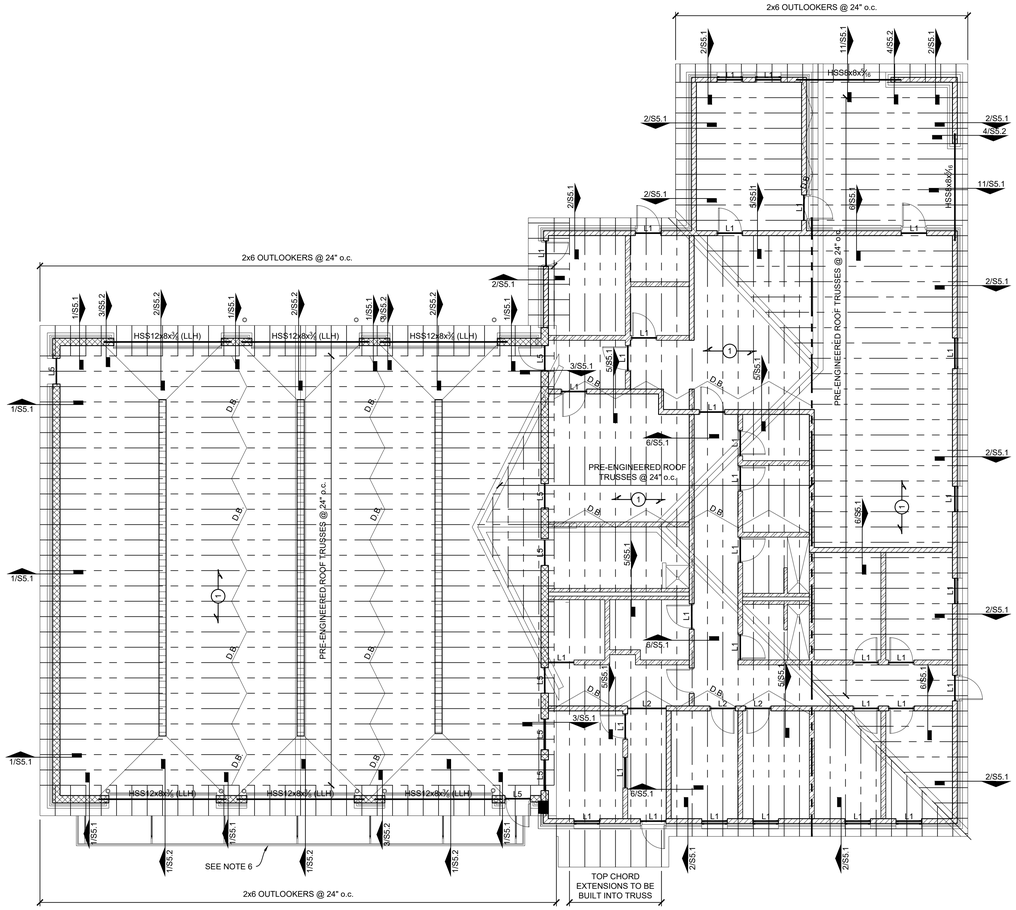
CONSTRUCTION DOCUMENTS

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Revisions:

No.	Date	Description

ROOF FRAMING PLAN

S2.1



1 ROOF FRAMING PLAN

SCALE: 1/8"=1'-0

ROOF FRAMING PLAN NOTES:

1. ←(1)→ INDICATES ½" PLYWOOD OR OSB ROOF DECK MINIMUM OR IN ACCORDANCE w/ ARCHITECTURAL UL REQUIREMENTS - TYPICAL. SEE DETAILS FOR ATTACHMENTS REQUIREMENTS. BLOCK ALL PANEL EDGES.

2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

3. ALL ROOF FRAMING SHALL BE PRE-ENGINEERED WOOD TRUSSES @ 24"o.c. MAX U.N.O.

4. "DB" ON PLAN INDICATES LOCATIONS OF DIAGONAL TRUSS BRACING, SEE DETAIL.

5. CONTRACTOR SHALL COORDINATE ALL ROOF TRUSS CONNECTION REQUIREMENTS WITH FINAL REVIEWED ROOF TRUSS SHOP DRAWINGS. CONNECTIONS ARE SUBJECT TO CHANGE BASED ON ROOF TRUSS MANUFACTURER'S FINAL REACTIONS.

6. PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND REACTIONS FOR ALL PRE-FABRICATED CANOPIES

LINTEL SCHEDULE

MARK NO.	SIZE / DESCRIPTION	REINFORCING	REMARKS
L1	8"x8" DEEP BOND BEAM	(2)- #5s LONG.	GROUT FILL ALL CELLS
L2	8"x16" DEEP BOND BEAM	(4)- #5s LONG. (2 EACH COURSE)	GROUT FILL ALL CELLS
L3	8"x24" DEEP BOND BEAM	(6)- #5s LONG. (2 EACH COURSE)	GROUT FILL ALL CELLS
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SEE DETAIL 6/S4.0 FOR ALL OPENING JAMB REQUIREMENTS			

ROOF TRUSS CONNECTION SCHEDULE	
CONDITION	CONNECTION
TRUSS @ LOWER ROOF	HTSM16+(2)H3
TRUSS @ HIGHER ROOF	(2)HTSM16+(2)H3
INTERIOR CMU BEARING WALL	(4)H3
STEEL ROOF BEAM	SEE DETAILS
HIP TRUSS	VGT W/ ¾" THREADED ROD 5" MIN EMBED INTO BOND BEAM w/ 3" HOOK OR WELDED TO STEEL BEAM
1-PLY GIRDER	
2-PLY GIRDER	
3-PLY GIRDER	

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TROUP COUNTY FIRE STATION - PROTOTYPE
TROUP COUNTY
GEORGIA

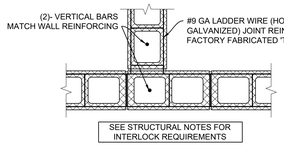
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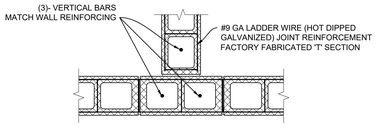
No.	Date	Description

ROOF FRAMING PLAN (ALTERNATE)

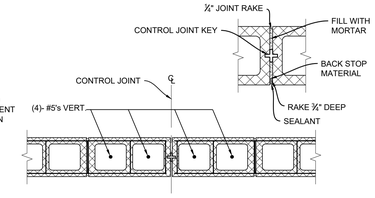
S2.1A



INTERSECTION DETAIL



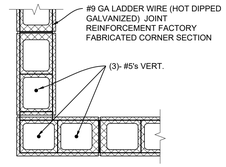
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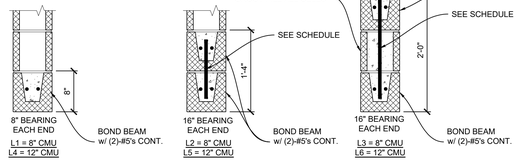
JOINT REINFORCING AND REINFORCING BARS STOP AT THE CONTROL JOINT EXCEPT AT BOND BEAMS THAT OCCUR AT ROOF

JOINTS OF INTERIOR / EXTERIOR WALLS SHALL NOT BE SPACED GREATER THAN 35'-0 APART
SEE PLAN FOR PROPOSED LOCATIONS.

CMU WALL CONTROL JOINT DETAIL



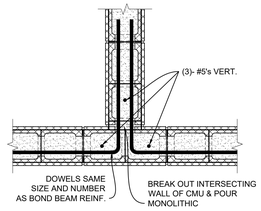
TYPICAL CORNER DETAIL



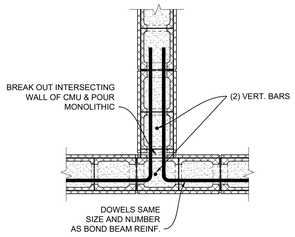
SEE PLAN FOR LOCATIONS

1 TYP. WALL REINFORCING DETAILS

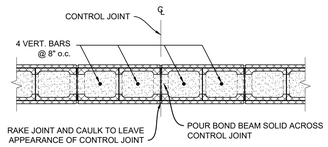
SCALE: 1"=1'-0



BOND BEAM / LINTEL
INTERSECTION DETAIL



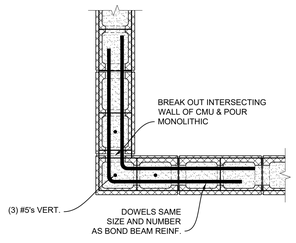
BOND BEAM / LINTEL
INTERSECTION DETAIL



JOINT REINFORCING AND REINFORCING BARS STOP AT THE CONTROL JOINT EXCEPT AT BOND BEAMS THAT OCCUR AT FLOOR AND ROOF

LOCATE CONTROL JOINTS AS SPECIFIED IN THE PLANS AND SPECIFICATIONS.

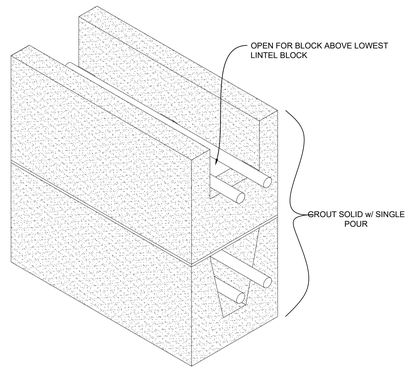
BOND BEAM / LINTEL
CMU WALL CONTROL JOINT DETAIL



BOND BEAM / LINTEL
CORNER DETAIL

2 LINTEL DETAILS

SCALE: 1"=1'-0



3 TYP. WALL REINFORCING DETAILS

SCALE: N.T.S.

BOND BEAM BLOCK
(KNOCK OUT BLOCK)

LINTEL BLOCK SECTION

TYP. CMU BLOCK
(PLAN)

NOTE:

1. ALL CMU SHALL HAVE ONLY 2 CELLS (EXCEPT LINTEL BLOCKS)

5 TYP. MASONRY UNITS

SCALE: N.T.S.

JAMBS FOR OPENING < 6'-0

NOTE: JAMB BARS ARE THE SAME AS TYPICAL REINFORCING INCLUDING SIZE, GRADE, FOOTING, AND TERMINATION AT T/WALL.

JAMBS FOR OPENING @ ALL 12" CMU OPENINGS

NOTE: JAMB BARS ARE THE SAME AS TYPICAL REINFORCING INCLUDING SIZE, GRADE, FOOTING, AND TERMINATION AT T/WALL.

6 TYP. JAMB DETAILS

SCALE: N.T.S.

(A) EXTEND BOND BEAM/LINTEL 40" IN ACCORDANCE WITH BEARING REQUIREMENTS.

(B) BOND BEAM AT OPENING SILL

(C) LINTEL AT OPENING HEAD

MASONRY WALL OPENING NOTES

1. SEE MASONRY GENERAL NOTES FOR JOINT REINF. REQUIREMENTS.

2. SEE LINTEL SCHEDULE FOR LINTEL & BOND BEAM DEPTH AND JAMB WIDTH.

3. LINTEL BOND BEAM, AND VERTICAL JAMB BARS SHALL BE SAME SIZE AS ADJACENT WALL REINF.

4. FOR VERTICAL REINF. OF 2 OR MORE BARS, EACH BAR SHALL BE PLACED IN A SEPRATE CELL U.N.O.

5. VERTICAL BARS SHALL BE IN ADDITION TO THE NORMAL WALL REINF. U.N.O.

6. HOOK WALL VERTICAL REINFORCING AT TOP OF WALL TYP.

7. ADJACENT OPENINGS 2'-8 OR LESS APART.
   A. REINFORCE ALL VERTICAL CELLS BETWEEN OPENINGS
   B. IF LINTEL BOTTOMS ALIGN, EXTEND THE WIDER OPENINGS LINTEL CONTINUOUS OVER BOTH OPENINGS.

8. ALL LINTELS OR BOND BEAMS HAVE 2 BARS CONT IN EACH COURSE U.N.O

9. ALL JAMBS HAVE TWO BARS IN EACH CELL OF JAMB WIDTH.

10. DO NOT LOCATE PLUMBING OR ELECTRICAL IN WALL AT LOCATION OF REINFORCED / FILLED CELL. IF PLUMBING OR ELECTRICAL LOCATION IS CRITICAL NOTIFY S.E.R. FOR DIRECTION.

CONTRACTOR SHALL COORDINATE ALL CONDUIT AND PLUMBING IN CMU WALLS PRIOR TO SUBMITTING WALL REINFORCING/LINTEL SHOP DRAWINGS. ALL CONDUIT AND PLUMBING SHALL BE SHOWN ON THESE SHOP DRAWINGS. AT LINTEL BEARING LOCATIONS IF ADJACENT CELLS ARE OCCUPIED WITH ELECTRICAL OR PLUMBING, REINFORCE AND FILL ADJACENT CELLS. NOTE THAT ALL LINTELS SHALL EXTEND OVER REINFORCED CELLS AND ACHIEVE THE REQUIRED BEARING OVER FILLED AND REINFORCED CELLS.

ADDITIONALLY, CONTRACTOR SHALL COORDINATE MECHANICAL OPENINGS PRIOR TO SUBMITTING WALL REINFORCING / LINTEL SHOP DRAWINGS. FOR MECHANICAL OPENINGS BETWEEN 0' AND 3' USE LINTEL L1. FOR MECHANICAL OPENINGS BETWEEN 3'-1 AND 6' USE LINTEL L2. SHOW LOCATIONS AND OPENING SIZES ON SHOP DRAWINGS FOR REVIEW BY EOR.

4 ENLARGE DETAIL (BOND BEAM / LINEL)

SCALE: N.T.S.

7 TYP. BOLLARD DETAIL

SCALE: N.T.S.

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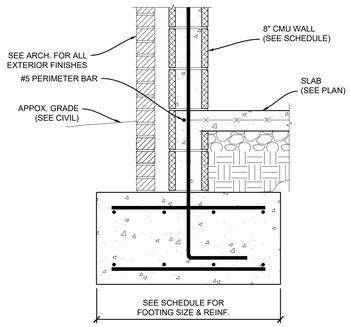
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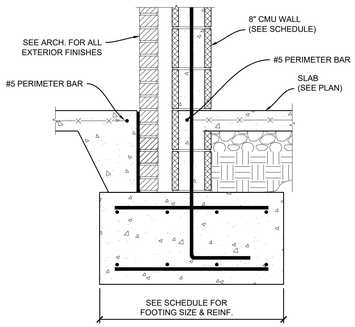
No.	Date	Description

GENERAL BLOCK DETAILS

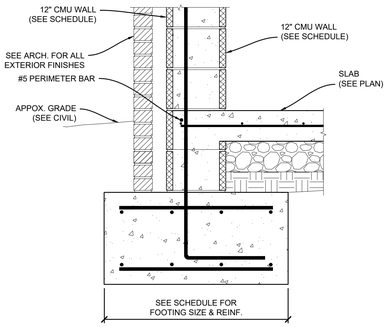
S4.0



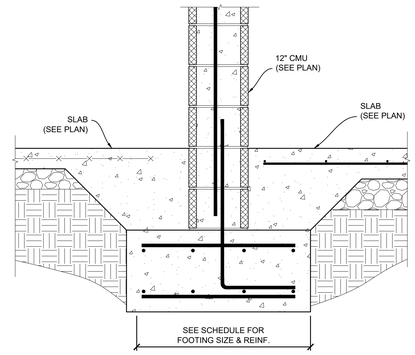
1 FOUNDATION SECTION
SCALE: 1"=1'-0



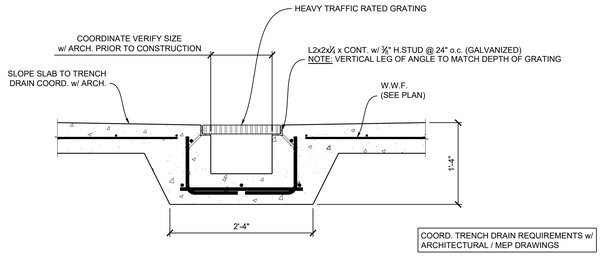
2 FOUNDATION SECTION
SCALE: 1"=1'-0



3 FOUNDATION SECTION
SCALE: 1"=1'-0

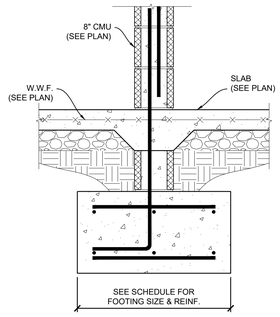


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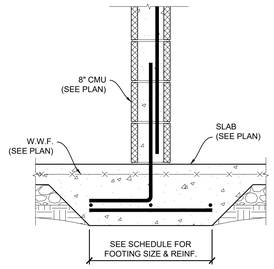


COORD. TRENCH DRAIN REQUIREMENTS w/
ARCHITECTURAL / MEP DRAWINGS

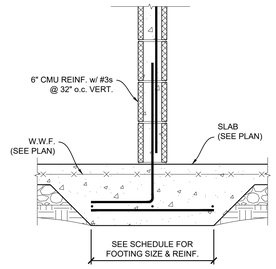
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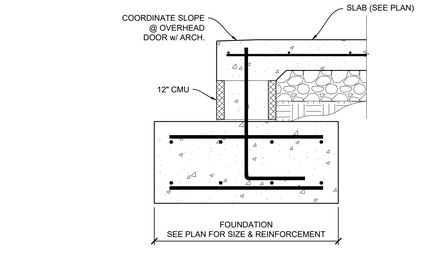
6 FOUNDATION SECTION
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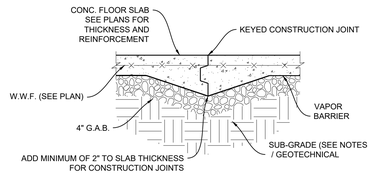
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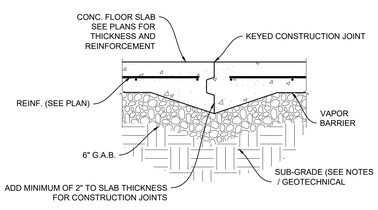
8 FOUNDATION SECTION
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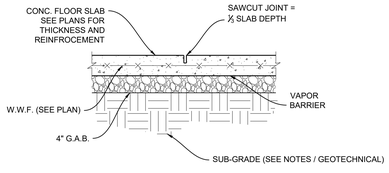
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SCALE: 1"=1'-0



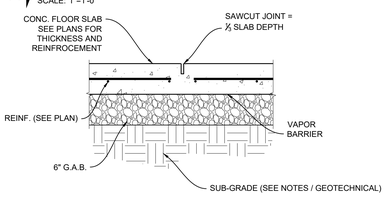
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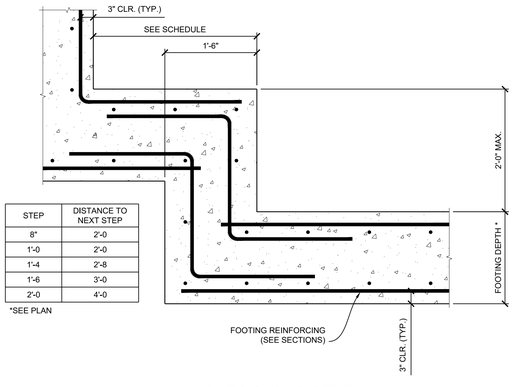
11 CONSTRUCTION JOINT DETAIL (APPARATUS BAY)
SCALE: 1"=1'-0



12 CONTRACTION JOINT DETAIL
SCALE: 1"=1'-0



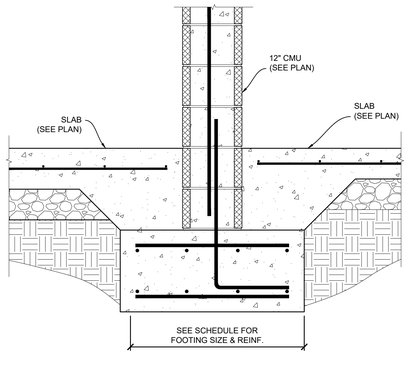
13 CONTRACTION JOINT DETAIL (APPARATUS BAY)
SCALE: 1"=1'-0



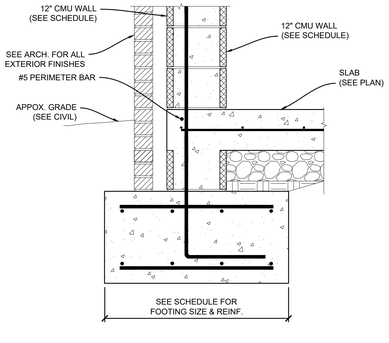
STEP	DISTANCE TO NEXT STEP
8"	2'-0
1'-0	2'-0
1'-4	2'-8
1'-6	3'-0
2'-0	4'-0

*SEE PLAN

14 TYP. FOOTING STEP
SCALE: 1"=1'-0



15 FOUNDATION SECTION
SCALE: 1"=1'-0



16 FOUNDATION SECTION
SCALE: 1"=1'-0

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GEORGIA REGISTERED PE PE-0036008 PROFESSIONAL ENGINEER JEREMY BRENT WRIGHT

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TROUP COUNTY FIRE STATION - PROTOTYPE
TROUP COUNTY
GEORGIA

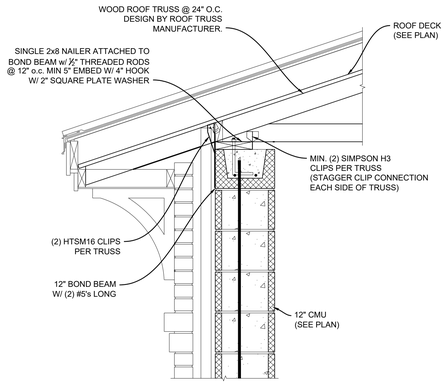
CONSTRUCTION DOCUMENTS

Project No.:	24-01951
Date:	2/15/2025
Drawn by:	AJD
Checked by:	CLS
Revisions:	

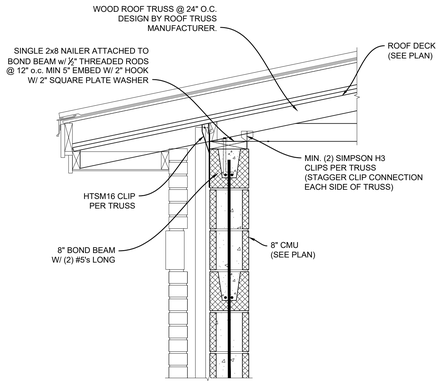
No.	Date	Description

FOUNDATION SECTIONS

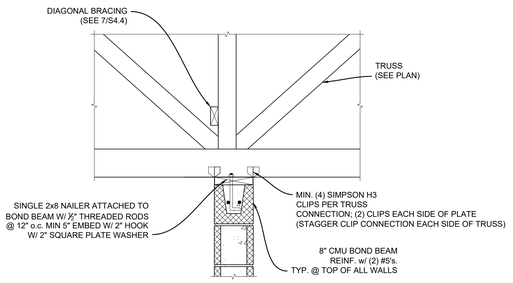
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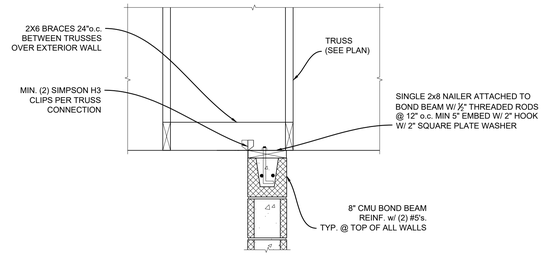
1 EXTERIOR ROOF FRAMING SECTION
SCALE: 1"=1'-0



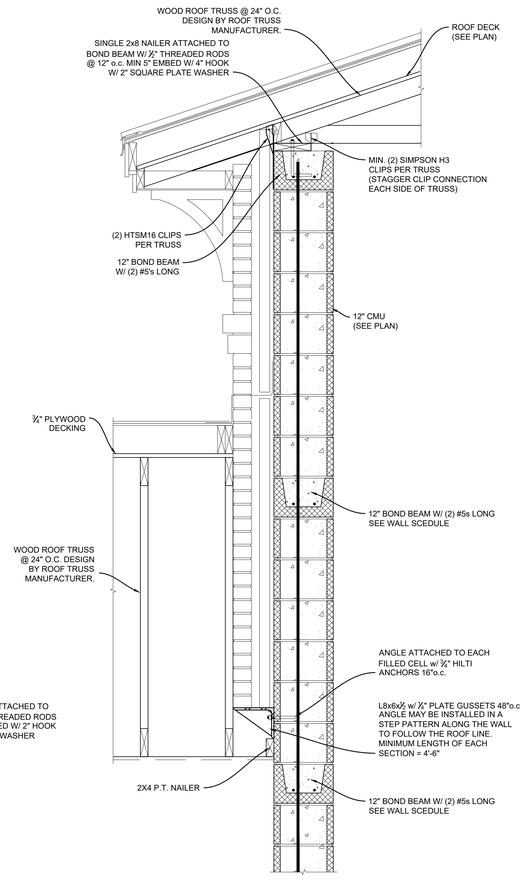
2 EXTERIOR ROOF FRAMING SECTION
SCALE: 1"=1'-0



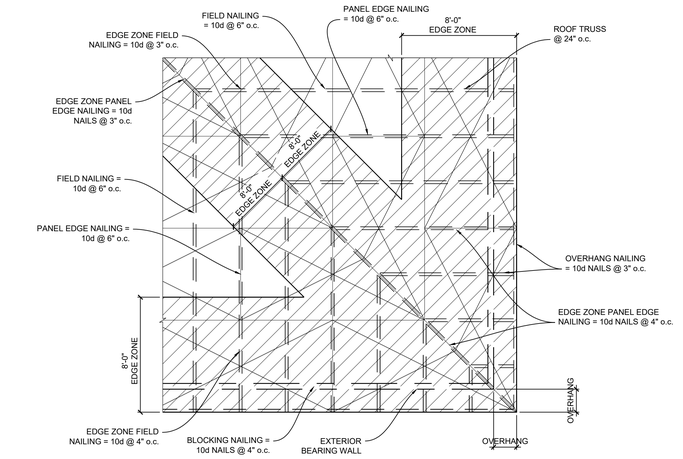
5 LOAD BEARING WALL
SCALE: 1"=1'-0



6 FRAMING SECTION
SCALE: 1"=1'-0



3 EXTERIOR ROOF FRAMING SECTION
SCALE: 1"=1'-0



4 TYP. EDGE ZONE ROOF SEATHING NAILING @ HIP
SCALE: 3/4"=1'-0

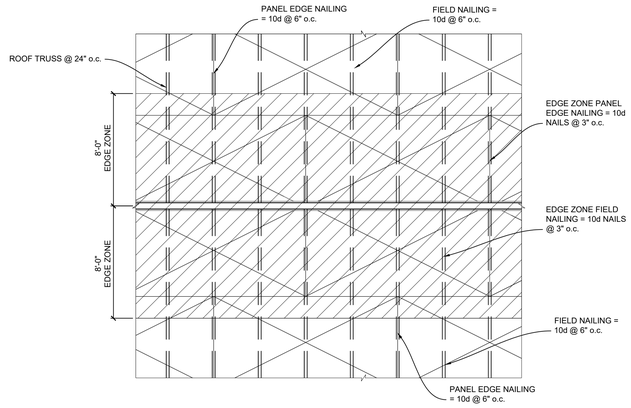
NOTE:
EDGE ZONE NAIL SPACING IS REQUIRED AT ALL EAVE, RIDGE, HIP, VALLEY & OVERHANG CONDITIONS. BOUNDARY BLOCKING IS REQUIRED WITHIN ALL EDGE ZONE CONDITIONS.

NOTE:
ROOF DECKING SHALL BE APA RATED EXPOSURE 1 PANELS WITH A MINIMUM THICKNESS OF 3/4" AT ALL SLOPED ROOFS.

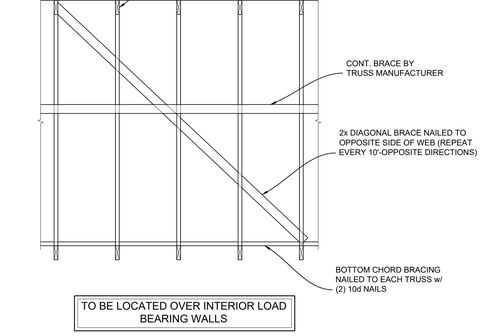
NOTE:
ALL NAILS TO BE RING SHANK w/ 1½"MIN PENETRATION INTO TRUSS CHORD

DENOTES EDGE ZONES & EDGE ZONE NAILING REQUIREMENTS

DENOTES INTERIOR ZONES & INTERIOR ZONE NAILING REQUIREMENTS

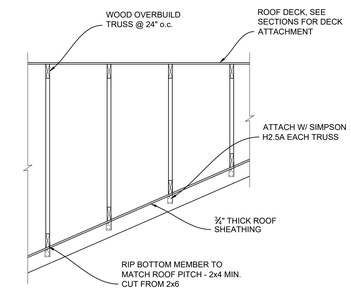


7 TYP. RIDGE ZONE ROOF SEATHING NAILING
SCALE: 3/4"=1'-0

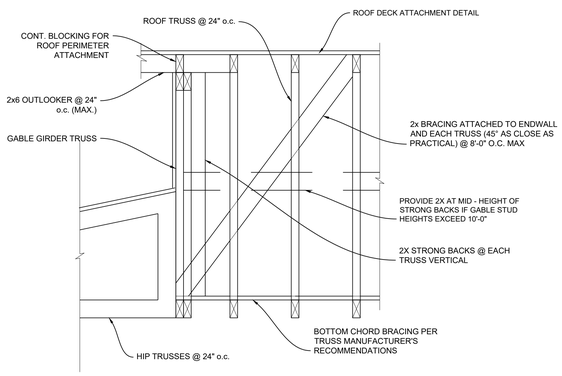


TO BE LOCATED OVER INTERIOR LOAD BEARING WALLS

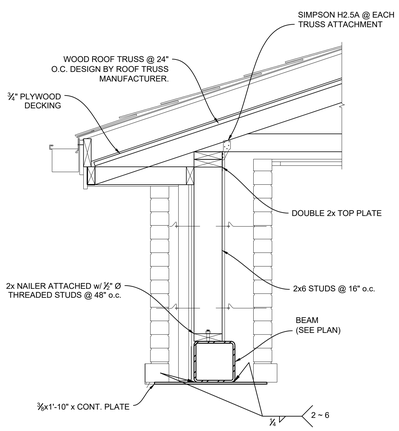
8 TYP. TRUSS DIAGONAL WEB BRACING
SCALE: 1"=1'-0



9 OVERBUILD DETAIL
SCALE: 1"=1'-0



10 HIPPED GABLE TRUSS BRACING DETAIL
SCALE: 1"=1'-0



11 FRAMING SECTION @ PATIO
SCALE: 1"=1'-0

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GEORGIA REGISTERED PROFESSIONAL ENGINEER JEREMY BRENT WRIGHT PE-0029001

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TROUP COUNTY FIRE STATION - PROTOTYPE
TROUP COUNTY GEORGIA

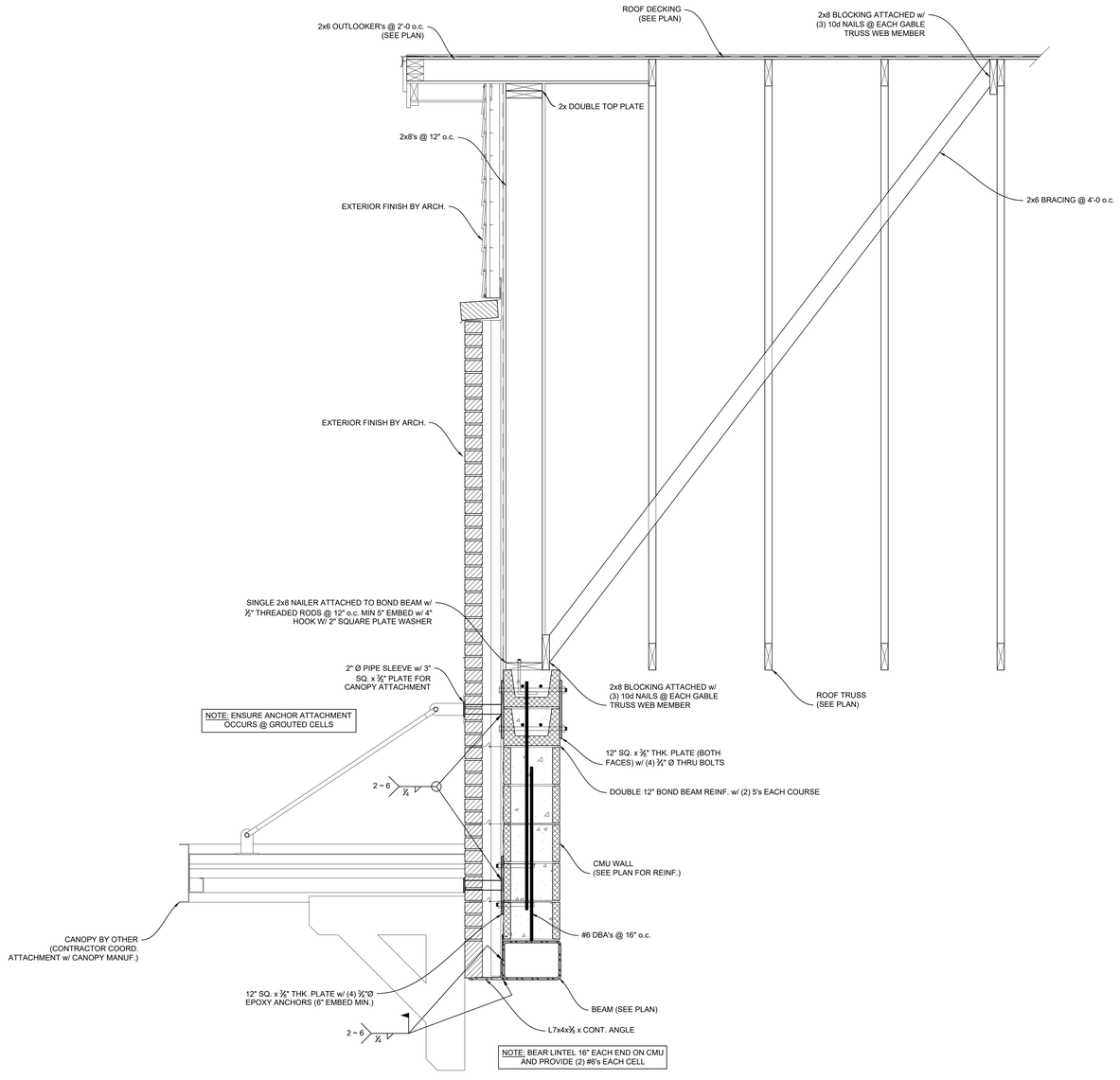
CONSTRUCTION DOCUMENTS

Project No.: 24-01951
Date: 2/15/2025
Drawn by: AJD
Checked by: CLS
Revisions:

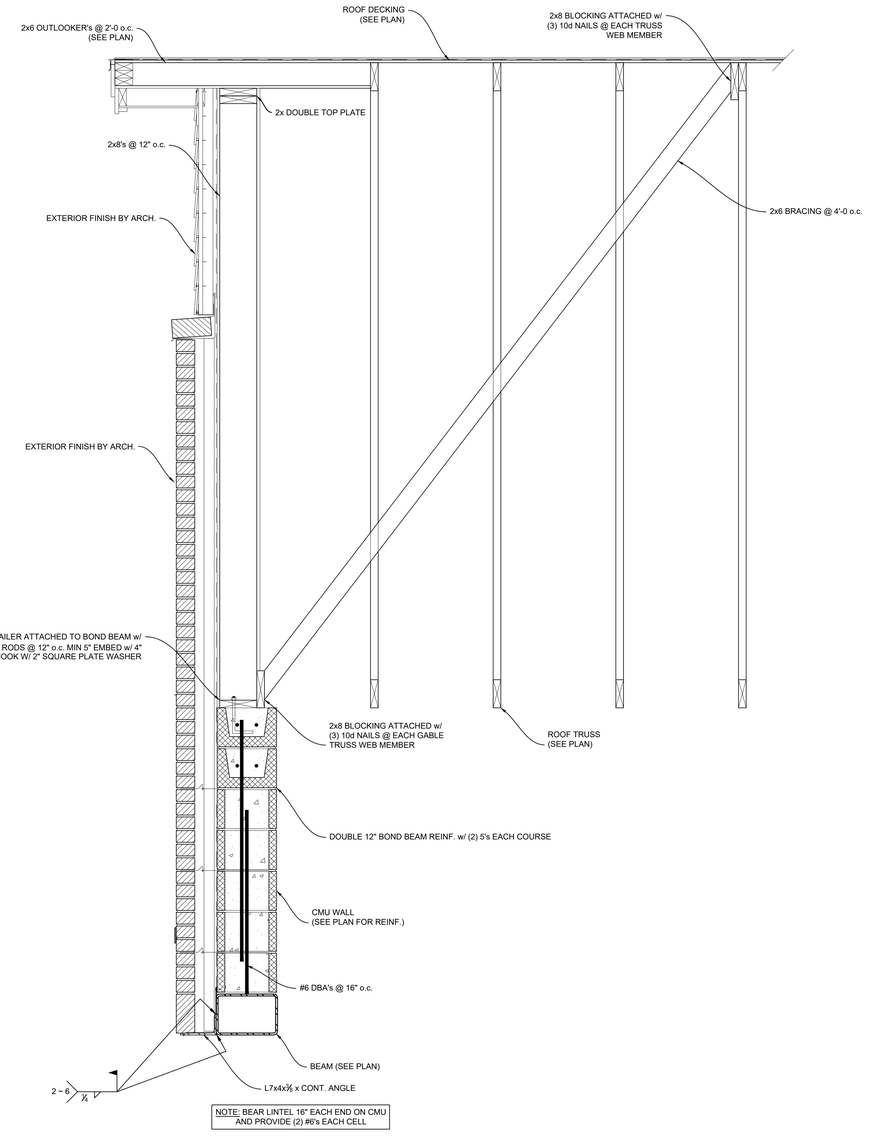
No.	Date	Description

FRAMING SECTIONS

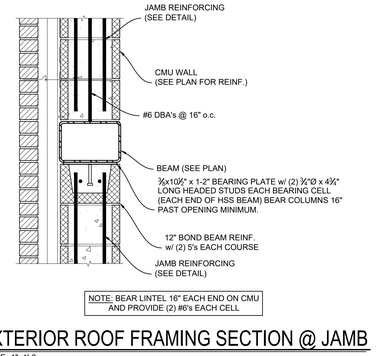
S5.1



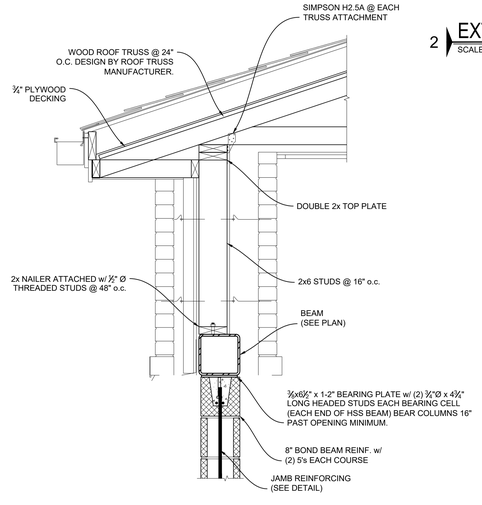
1 EXTERIOR ROOF FRAMING SECTION
SCALE: 1"=1'-0



2 EXTERIOR ROOF FRAMING SECTION
SCALE: 1"=1'-0



3 EXTERIOR ROOF FRAMING SECTION @ JAMB
SCALE: 1"=1'-0



4 FRAMING SECTION @ PATIO
SCALE: 1"=1'-0

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GEORGIA REGISTERED PE No. PE030004 ENGINEER JEREMY BRENT WRIGHT

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TROUP COUNTY FIRE STATION - PROTOTYPE
TROUP COUNTY GEORGIA

CONSTRUCTION DOCUMENTS

Project No.:	24-01951
Date:	2/15/2025
Drawn by:	AJD
Checked by:	CLS
Revisions:	

No.	Date	Description

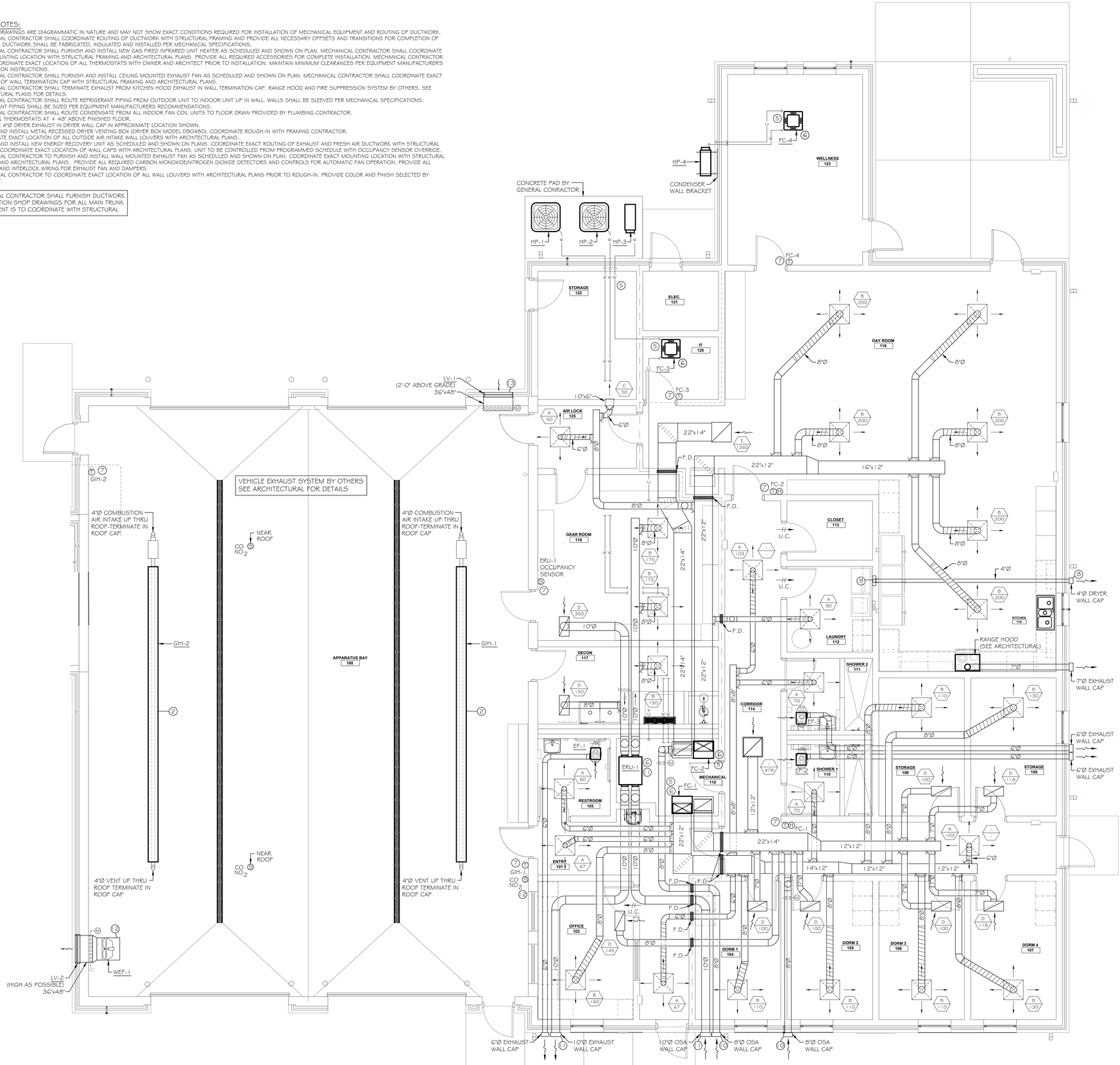
FRAMING SECTIONS

S5.2

DRAWING NOTES:

1. GENERAL: DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT SHOW EXACT CONDITIONS REQUIRED FOR INSTALLATION OF MECHANICAL EQUIPMENT AND ROUTING OF DUCTWORK. MECHANICAL CONTRACTOR SHALL COORDINATE ROUTING OF DUCTWORK WITH STRUCTURAL FRAMING AND PROVIDE ALL NECESSARY OFFSETS AND TRANSITIONS FOR COMPLETION OF WORK. ALL DUCTWORK SHALL BE FABRICATED, INSULATED AND INSTALLED PER MECHANICAL SPECIFICATIONS.
2. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW GAS FIRED INFRARED UNIT HEATER AS SCHEDULED AND SHOWN ON PLAN. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING LOCATION WITH STRUCTURAL FRAMING AND ARCHITECTURAL PLANS. PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL THERMOSTATS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. MAINTAIN MINIMUM CLEARANCES PER EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS.
3. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CEILING MOUNTED EXHAUST FAN AS SCHEDULED AND SHOWN ON PLAN. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF WALL TERMINATION CAP WITH STRUCTURAL FRAMING AND ARCHITECTURAL PLANS.
4. MECHANICAL CONTRACTOR SHALL TERMINATE EXHAUST FROM KITCHEN HOOD EXHAUST IN WALL TERMINATION CAP. RANGE HOOD AND FIRE SUPPRESSION SYSTEM BY OTHERS. SEE ARCHITECTURAL PLANS FOR DETAILS.
5. MECHANICAL CONTRACTOR SHALL ROUTE REFRIGERANT PIPING FROM OUTDOOR UNIT TO INDOOR UNIT UP IN WALL. WALLS SHALL BE SLEEVED PER MECHANICAL SPECIFICATIONS. REFRIGERANT PIPING SHALL BE SIZED PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
6. MECHANICAL CONTRACTOR SHALL ROUTE CONDENSATE FROM ALL INDOOR FAN COIL UNITS TO FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR.
7. MOUNT ALL THERMOSTATS AT + 48" ABOVE FINISHED FLOOR.
8. TERMINATE 4"Ø DRYER EXHAUST IN DRYER WALL CAP IN APPROXIMATE LOCATION SHOWN.
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11. FURNISH AND INSTALL NEW ENERGY RECOVERY UNIT AS SCHEDULED AND SHOWN ON PLANS. COORDINATE EXACT ROUTING OF EXHAUST AND FRESH AIR DUCTWORK WITH STRUCTURAL FRAMING. COORDINATE EXACT LOCATION OF WALL CAPS WITH ARCHITECTURAL PLANS. UNIT TO BE CONTROLLED FROM PROGRAMMED SCHEDULE WITH OCCUPANCY SENSOR OVERRIDE.
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MECHANICAL CONTRACTOR SHALL FURNISH DUCTWORK COORDINATION SHOP DRAWINGS FOR ALL MAIN TRUNK LINES - INTENT IS TO COORDINATE WITH STRUCTURAL



PROJECT NORTH

1 / M1.1 FLOOR PLAN

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

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Fax: (706) 596-9233

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P. (706) 571-6923

GEORGIA REGISTERED No. 15389 ARCHITECT WILLIAM A. SHERRER

TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

Project No.:	26-00013
Date:	8/18/2026
Drawn by:	DSD
Checked by:	WAS
Revisions:	

No.	Date	Description

FLOOR PLAN WITH ALTERNATE 1 MECHANICAL

M1.1

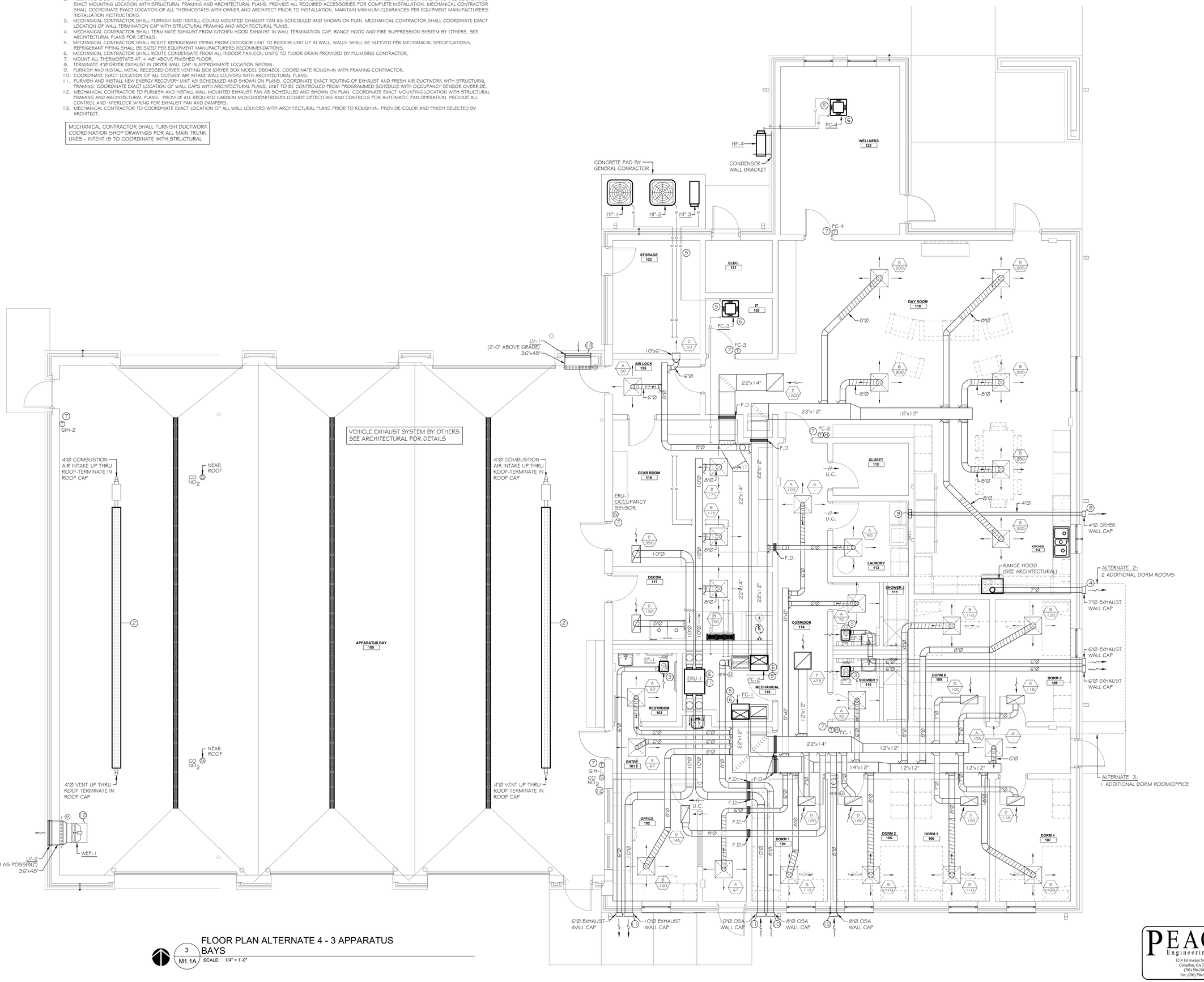
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DRAWING NOTES:

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3 / M1.1A FLOOR PLAN ALTERNATE 4 - 3 APPARATUS BAYS

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

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GEORGIA REGISTERED No. 15389 ARCHITECT SHERRARD

TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

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Revisions:	

No.	Date	Description

FLOOR PLAN ALTERNATES MECHANICAL

M1.1A

FILE PATH: Autodesk Docs://26-00013 Troup County Fire Station #1/26-00013 Troup Co FS Prototype R24 DD.rvt
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SPLIT SYSTEM HEAT PUMP SCHEDULE

INDOOR SECTION OF HEAT PUMP																														OUTDOOR SECTION OF HEAT PUMP										REMARKS
UNIT FAN							COOLING DATA					REVERSE CYCLE HEATING				ELECTRIC HEATER DATA					INDOOR SECTION POWER SUPPLY							COMPRESSOR		O.D. FANS		POWER SUPPLY						
UNIT NO.	TOTAL AIR CFM	MIN. OUT. AIR CFM	MAX. OUT. AIR CFM	TYPE UNIT	TYPE FAN	APPROX. EXT S.P. INCHES H_2O	FAN MOTOR H.P.	MAX COIL FACE VEL F.P.M.	MIN. CAPACITY TOTAL B.T.U.H.	MIN. CAPACITY SENSIBLE B.T.U.H.	ENT AIR F D.B.	ENT AIR F W.B.	MIN. S.E.E.R./ E.E.R.	MINIMUM HEATING CAPACITY B.T.U.H.	ENT. TEMP. °F	AMB. TEMP. °F	MIN. C.O.P. (HSPF)	MINIMUM HEATING CAPACITY B.T.U.H.	ENT. TEMP. °F	LVG. TEMP. °F	NUMBER OF STAGES	TOTAL K.W. @ 240V	MINIMUM CIRCUIT AMPS	MAXIMUM FUSE AMPS	VOLT	PHASE	HZ	UNIT NO.	NO. OF COMPR.	RLA AMPS	NO. OF FANS	FLA AMPS	MINIMUM CIRCUIT AMPS	MAXIMUM FUSE AMPS	VOLT	PHASE	HZ	
FC-1 FC-2	(HI) 1,400 (LOW) 1,120	112	140	VERT. D. T.	F.C.	0.50	3/4	500	(HI) 48,500 (LOW) 34,250	(HI) 35,100 (LOW) 26,250	80.0	67.0	18.0 S.E.E.R.	(HI) 48,500 (LOW) 34,060	65.0	47.0	3.98 (8.1)	31,400	65.0	85.6	1	10.0	56.4	60	240	1	60	HP-1 HP-2	1	23.0	1	2.6	31.4	50	240	1	60	BASIS OF DESIGN: INDOOR SECTION CARRIER MODEL FTSANB0G0 COMPLETE WITH HEAT PUMP COIL, ELECTRIC HEAT ACCESSORY (KFFEH2G01C10), EXTERNAL VIBRATION ISOLATION, FNCCABWX024 FILTER RACK WITH 4 INCH PLEATED FILTERS (MERV 8), AND SINGLE POINT CONNECTION. OUTDOOR SECTION CARRIER MODEL 27TPA648 (TWO STAGE UNIT) WITH LOW AMBIENT COOLING AND WIFI THERMOSTAT WITH HUMIDITY CONTROL (TSTWRH01A).

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MINIMUM OPERATING CHARACTERISTICS AND ELECTRICAL REQUIREMENTS																															REMARKS
UNIT FAN			COOLING DATA				HEATING DATA				INDOOR UNIT				OUTDOOR UNIT																
UNIT NO.	TOTAL AIR CFM	FAN MOTOR F.L.A.	MINIMUM TOTAL B.T.U.H.	ENT AIR F D.B.	ENT AIR F W.B.	MIN. S.E.E.R.	MINIMUM HEATING CAPACITY B.T.U.H.	ENT. TEMP. °F	AMB. TEMP. °F	MIN. HSPF	MINIMUM CIRCUIT AMPS	MAXIMUM FUSE AMPS	VOLT	PHASE	HZ	UNIT NO.	NO. OF COMPR.	RLA AMPS	NO. OF FANS	FLA AMPS	MINIMUM CIRCUIT AMPS	MAXIMUM FUSE AMPS	VOLT	PHASE	HZ	
FC-3	323	3.0	12,000/ 4,500	80.0	67.0	25.5	12,000	65.0	47.0	10.7	POWERED FROM OUTDOOR UNIT					HP-3	1	5.3	1	0.5	12.0	15	240	1	60	INDOOR SECTION: CARRIER MODEL 45MAHAQ12 WALL MOUNTED INDOOR EVAPORATOR UNIT COMPLETE WITH MINI CONDENSATE PUMP. OUTDOOR SECTION: CARRIER MODEL 37MARAQ12 COMPLETE WITH 10 YEAR PARTS & COMPRESSOR WARRANTY, WIRED REMOTE PROGRAMMABLE 7-DAY.
FC-4	323	3.0	18,000/ 5,300	80.0	67.0	20.8	18,000	65.0	47.0	11.4	POWERED FROM OUTDOOR UNIT					HP-4	1	8.3	1	0.5	18.0	20	240	1	60	INDOOR SECTION: CARRIER MODEL 45MBCAQ18 CEILING MOUNTED INDOOR EVAPORATOR UNIT COMPLETE WITH MINI CONDENSATE PUMP. OUTDOOR SECTION: CARRIER MODEL 37MARAQ18 COMPLETE WITH 10 YEAR PARTS & COMPRESSOR WARRANTY, WIRED REMOTE PROGRAMMABLE 7-DAY.
~~FC-5~~	~~194~~	~~3.0~~	~~9,000/ 3,700~~	~~80.0~~	~~67.0~~	~~21.7~~	~~9,000~~	~~65.0~~	~~47.0~~	~~11.3~~	~~POWERED FROM OUTDOOR UNIT~~					~~HP-5~~	~~1~~	~~4.3~~	~~1~~	~~0.5~~	~~12.0~~	~~15~~	~~240~~	~~1~~	~~60~~	~~INDOOR SECTION: CARRIER MODEL 45MBCAQ12 CEILING MOUNTED INDOOR EVAPORATOR UNIT COMPLETE WITH MINI CONDENSATE PUMP. OUTDOOR SECTION: CARRIER MODEL 37MARAQ09 COMPLETE WITH 10 YEAR PARTS & COMPRESSOR WARRANTY, WIRED REMOTE PROGRAMMABLE 7-DAY.~~

ENERGY RECOVERY UNIT SCHEDULE

UNIT NO.	NET AIR QUANTITIES				SUMMER CONDITIONS						WINTER CONDITIONS						ELECTRICAL DATA							REMARKS
	EXHAUST AIR (CFM)	EXT. STATIC PRESS. IN. WG	OUTSIDE AIR (CFM)	EXT. STATIC PRESS. IN. WG	ROOM AIR DB (°F)	ROOM AIR WB (°F)	OUTSIDE AIR DB (°F)	OUTSIDE AIR WB (°F)	LEAVING AIR DB (°F)	LEAVING AIR WB (°F)	ROOM AIR DB (°F)	ROOM AIR WB (°F)	OUTSIDE AIR DB (°F)	OUTSIDE AIR WB (°F)	LEAVING AIR DB (°F)	LEAVING AIR WB (°F)	EXHAUST AIR FAN F.L.A.	OUTSIDE AIR FAN F.L.A.	UNIT COMPR. R.L.A.	MIN. CIRCUIT AMPS	MAX. FUSE AMPS	VOLTS	PHASE	HZ	
ERU-1	500	0.50	500	0.50	75.0	62.5	95.0	76.0	72.4	58.1	70.0	58.5	16.0	12.0	71.9	56.6	2.0	2.0	3.2	8.31	15	240	1	60	BASIS OF DESIGN: ALPHA AIRE MODEL AAV100G1AST6 SELF CONTAINED 100% OUTSIDE AIR ENERGY RECOVERY UNIT COMPLETE WITH 2" SOLID DOUBLE WALL CABINET, STAINLESS STEEL DRAIN PAN, NON-FUSED DISCONNECT SWITCH, MERV 8 FILTERS, ECM FAN MOTORS, WALL OCCUPANCY SENSOR, ADJUSTABLE FAN SPEED CONTROL, AND VIBRATION ISOLATION.

NOTE 1: PROVIDE WALL MOUNTED OCCUPANCY SENSOR OVERRIDE - COORDINATE EXACT ROUGH-IN LOCATION WITH ARCHITECTURAL PLANS.

GAS FIRED (NATURAL GAS) LOW INTENSITY RADIANT TUBE HEATER SCHEDULE

UNIT NO.	TUBE LENGTH (IN FEET)	MOUNTING ANGLE (DEGREES)	PROPANE GAS HEAT MINIMUM BTU/HR STAGE 1	PROPANE GAS HEAT MINIMUM BTU/HR STAGE 2	ELECTRICAL H.P.	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL HZ.	REMARKS
GH1-1 GH1-2	30	0°	100,000	75,000	0.03	120	1	60	BASIS OF DESIGN: MODINE MODEL IPT100 PROPANE GAS INFRA-RED RADIANT TUBE HEATER WITH ALUMINIZED STEEL RADIANT TUBES AND COMBUSTION CHAMBER, TWO STAGE GAS HEATING WITH 24 VOLT THERMOSTAT, ACCESSORY COMBUSTION AIR CAP, GAS VENTING ROOF CAP, ADJUSTABLE TUBE REFLECTOR, AND ALL HANGERS& SUPPORTS REQUIRED FOR INSTALLATION.

NOTE 1: PROVIDE ALL REQUIRED ACCESORY ITEMS FOR VERTICAL COMBUSTION AIR VENTING (INCLUDING INTAKE ADAPTER & INTAKE ROOF CAP).
NOTE 2: PROVIDE ALL REQUIRED ACCESORY ITEMS FOR CONTROLLING UNITS FROM WALL MOUNTED THERMOSTAT.
NOTE 3: FOLLOW MANUFACTURER'S INSTALLATION REQUIRMENTS FOR CLEARANCES AND MOUNTING HEIGHTS.

AIR PURIFICATION DEVICE SCHEDULE

UNIT NO.	SUPPLY AIR CFM	OUTSIDE AIR CFM	TOTAL REQUIRED	ΔP INCHES H_2O	MOUNTING LOCATION	CONTROL INTERLOCK	VOLTS	WATTS	REMARKS
FC-1 FC-2	1,400	140	1	0.03	SUPPLY FAN INLET	WITH SUPPLY FAN BY HVAC CONTRACTOR	24V AC	15	BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS MODEL GPS-FC24-AC COMPACT SELF-CLEANING BI-POLAR IONIZATION SYSTEM COMPLETE WITH ALL COMPOSITE AND CARBON FIBER CONSTRUCTION, ILLUMINATED ON/OFF SWITCH, ALARM OUTPUT DRY-CONTACTS, AND MAINTENANCE FREE DESIGN. OTHER MANUFACTURER'S WHO MAY BE CONSIDERED ARE AIRGENICS AND BIOXGEN.

EXHAUST FAN SCHEDULE

UNIT NO.	TOTAL AIR CFM	APPROX. EXT. S.P. INCH WATER	DESCRIPTION BD - BELT DRIVE DD - DIRECT DRIVE	FREE AIR SONES AT 5'	MAX. FAN SPEED R.P.M.	CONTROL INTERLOCK	MAX. MOTOR H.P.	VOLTS	PHASE	HZ.	REMARKS
EF-1	75	0.375	DD - CENTRIFUGAL CEILING MOUNTED EXHAUST FAN	3.0	1,060	WITH TIMED SWITCH BY ELEC. CONTRACTOR	17 Watts	120	1	60	BASIS OF DESIGN: GREENHECK MODEL SP-A390-VG CEILING MOUNTED EXHAUST FAN COMPLETE WITH DISCONNECT SWITCH, EC MOTOR WITH FAN SPEED DIAL ON FAN MOTOR, BACKDRAFT DAMPER, ALUMINUM GRILLE, VIBRATION ISOLATION AND UL LISTING.
EF-2	90	0.375	DD - CENTRIFUGAL CEILING MOUNTED EXHAUST FAN	3.0	1,067	WITH TIMED SWITCH BY ELEC. CONTRACTOR	18 Watts	120	1	60	BASIS OF DESIGN: GREENHECK MODEL SP-A390-VG CEILING MOUNTED EXHAUST FAN COMPLETE WITH DISCONNECT SWITCH, EC MOTOR WITH FAN SPEED DIAL ON FAN MOTOR, BACKDRAFT DAMPER, ALUMINUM GRILLE, VIBRATION ISOLATION AND UL LISTING.
EF-3	90	0.375	DD - CENTRIFUGAL CEILING MOUNTED EXHAUST FAN	3.0	1,067	WITH TIMED SWITCH BY ELEC. CONTRACTOR	18 Watts	120	1	60	BASIS OF DESIGN: GREENHECK MODEL SP-A390-VG CEILING MOUNTED EXHAUST FAN COMPLETE WITH DISCONNECT SWITCH, EC MOTOR WITH FAN SPEED DIAL ON FAN MOTOR, BACKDRAFT DAMPER, ALUMINUM GRILLE, VIBRATION ISOLATION AND UL LISTING.
WEF-1	3,520	0.125	DD - CENTRIFUGAL SIDEWALL MOUNTED EXHAUST FAN	11.4	1,356	CONTROL WIRING BY HVAC CONTR.	3/4	120	1	60	BASIS OF DESIGN: GREENHECK MODEL SE1-18-429-VG WALL MOUNTED EXHAUST FAN COMPLETE WITH DISCONNECT SWITCH, BACKDRAFT DAMPER, BIRDSCREEN, WALL HOUSING WITH LIGHT GREY BAKED ENAMEL FINISH, WALL SWITCH AND UL LISTING.

FAN SCHEDULE NOTES:
1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL MOTOR STARTERS FOR EXHAUST FANS.
2. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL INTERLOCK WIRING FOR EXHAUST FANS.
3. WEF-1 SHALL BE OPERATED OFF INTERLOCK WITH MOTORIZED INTAKE DAMPER. DAMPER SHALL OPEN PRIOR TO EXHAUST FAN OPERATION.
4. WEF-1 SHALL ALSO OPERATE AUTOMATICALLY BASED ON CARBON MONOXIDE/NITROGEN DIOXIDE DETECTORS LOCATED IN THE APPARATUS BAY. (PROVIDE ALL REQUIRED CONTROLS AND SENSORS)
5. EF-1, EF-2 & EF-3 TIMED WALL SWITCH SHALL LIMIT FAN OPERATION TO 30 MINUTES MAXIMUM PER TIMED CYCLE.

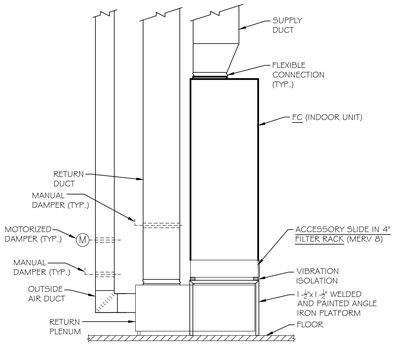
WALL LOUVER SCHEDULE

UNIT NO.	CFM	SIZE (W x H) INCHES	FRAME THICKNESS	BLADE THICKNESS	BLADE ANGLE	FREE AREA	PRESSURE DROP INCHES WG	REMARKS
LV-1 LV-2	3,520	36" x 48"	6" x 0.081"	0.081"	35°	54.4%	0.04	BASIS OF DESIGN: GREENHECK MODEL ESD-635 WEATHER LOUVER WITH 6" WIDE STATIONARY EXTRUDED ALUMINUM DRAINABLE BLADES, EXPANDED ALUMINUM BIRDSCREEN, 1-1/2" FLANGED FRAME, AMCA CERTIFICATION, AND EXTENDED SILL WITH END DAMS (VERIFY EXACT DEPTH WITH ARCHITECTURAL PLANS).

WALL LOUVER NOTES:
1. MECHANICAL CONTRACTOR SHALL PROVIDE COLOR SAMPLE TO ARCHITECT TO SELECT LOVER COLOR.

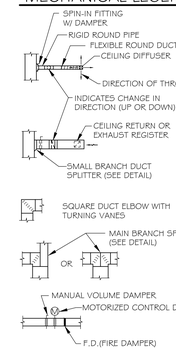
AIR DEVICE SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE INCHES	FACE SIZE INCHES	MAX. NC RATING	REMARKS
A CFM	0-110	6"Ø	24x24	20	BASIS OF DESIGN TITUS OMNI FULL FACE ARCHITECTURAL SQUARE PANEL CEILING DIFFUSER COMPLETE WITH BORDER TYPE 3 (LAY-IN) FRAME, AG-75 OPPOSED BLADE DAMPER, STANDARD WHITE FINISH AND OPTIONAL FACTORY INSULATED BACK PAN.
B CFM	111-230	8"Ø	24x24	20	BASIS OF DESIGN TITUS OMNI FULL FACE ARCHITECTURAL SQUARE PANEL CEILING DIFFUSER COMPLETE WITH BORDER TYPE 3 (LAY-IN) FRAME, AG-75 OPPOSED BLADE DAMPER, STANDARD WHITE FINISH AND OPTIONAL FACTORY INSULATED BACK PAN.
C CFM	0-110	10x6"	12x8	20	BASIS OF DESIGN: TITUS 272RL, DOUBLE DEFLECTION SIDEWALL SUPPLY REGISTER WITH 3/4" BLADE SPACING, STEEL BORDER WITH EXTRUDED ALUMINUM BLADES, STANDARD WHITE FINISH, BORDER TYPE 1 (SURFACE MOUNT FRAME) AND PFAP AUXILIARY ALUMINUM MOUNTING FRAME.
D CFM	0-500	10"x22"	12x24	20	BASIS OF DESIGN: TITUS 50F, ALL ALUMINUM FABRICATED EGG-CRATE TYPE WITH BAKED OFF-WHITE ENAMEL FINISH, WITH AG-15-AA ALLEN KEY OPERATED OPPOSED BLADE DAMPER, BORDER TYPE 3 (LAY-IN) FRAME.
E CFM	501-1850	22"x22"	24x24	20	BASIS OF DESIGN: TITUS 50F, ALL ALUMINUM FABRICATED EGG-CRATE TYPE WITH BAKED OFF-WHITE ENAMEL FINISH, WITH AG-15-AA ALLEN KEY OPERATED OPPOSED BLADE DAMPER, BORDER TYPE 3 (LAY-IN) FRAME.
F CFM	501-1850	22"x22"	24x24	20	BASIS OF DESIGN: TITUS 50F, ALL ALUMINUM FABRICATED EGG-CRATE TYPE WITH BAKED OFF-WHITE ENAMEL FINISH, WITH AG-15-AA ALLEN KEY OPERATED OPPOSED BLADE DAMPER, BORDER TYPE 1 SURFACE MOUNT FRAME AND PFAP AUXILIARY ALUMINUM MOUNTING FRAME.
G CFM	N/A	N/A	24x24	N/A	BASIS OF DESIGN: TITUS TRM ALUMINUM MOUNTING FRAME FOR MOUNTING LAY-IN DIFFUSERS IN HARD CEILINGS. FURNISH ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION. FRAME TO BE STANDARD WHITE FINISH.

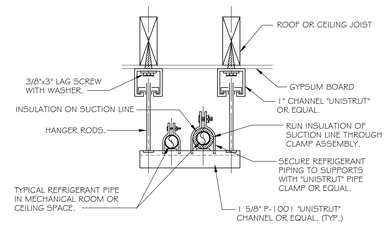


FC INDOOR UNIT DETAIL
N.T.S.

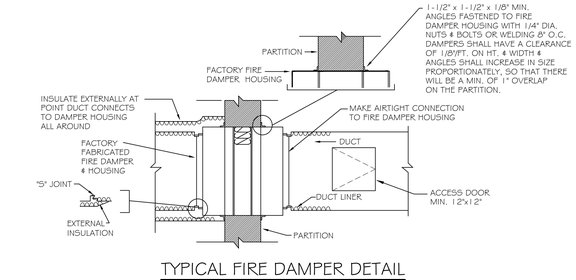
MECHANICAL LEGEND



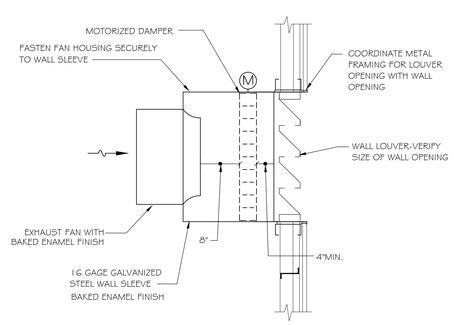
T FC-1	HEAT PUMP THERMOSTAT UNIT NO.
CO	CARBON MONOXIDE SENSOR.
NO_2	NITROGEN DIOXIDE SENSOR.
EF-1	EXHAUST FAN NO.
S.A.	SUPPLY AIR
R.A.	RETURN AIR
O.S.A.	OUTSIDE AIR
CD	CEILING DIFFUSER
FD	FIRE DAMPER
CRR	CEILING RETURN REGISTER
CER	CEILING EXHAUST REGISTER
	MOTORIZED DAMPER
	MANUAL BALANCING DAMPER
U.C.	UNDERCUT DOOR A MINIMUM OF 1"



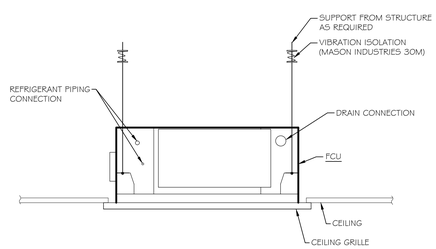
SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING
N.T.S.



TYPICAL FIRE DAMPER DETAIL
N.T.S.

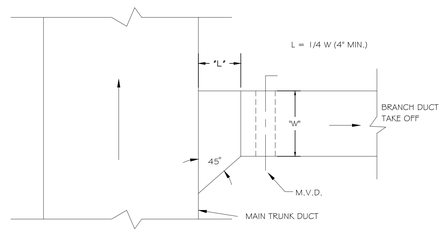


DETAIL - WALL MOUNTED EXHAUST FAN
NOT TO SCALE

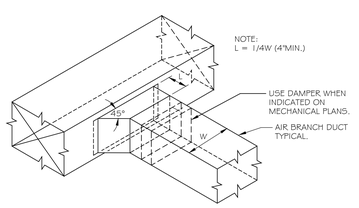


SURFACE MOUNT CEILING DIFFUSER DETAIL
N.T.S.

DUCTLESS CEILING RECESSED FCU DETAIL
N.T.S.



SMALL BRANCH SPLITTER DAMPER DETAIL
N.T.S.



BRANCH DUCT TAKE-OFF AND DAMPER DETAIL
N.T.S.

PEACH Engineering
1214 1st Avenue Suite 210
Columbus, GA 31902
(706) 596-1840
Fax: (706) 596-9233

2WR ARCHITECTS
11 Ninth Street, Suite 120
Columbus, GA 31901
P. (706) 571-6923

GEORGIA REGISTERED No. 15389 PROFESSIONAL ENGINEER SHERRER

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA
100% CONSTRUCTION DOCUMENTS

Project No.: 26-00013
Date: 8/18/2026
Drawn by: DSD
Checked by: WAS
Revisions:

No.	Date	Description

MECHANICAL SCHEDULES AND DETAILS

M2.0

PRINTED: 8/20/2026 3:16:25 PM
FILE PATH: Autodesk Docs://26-00013 Troup County, Georgia Fire Station #1/26-00013 Troup Co FS Prototype R24 DD.rvt

FIRE PROTECTION GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BID. CONTRACTOR SHALL VERIFY EXACT SIZE, LOCATION, ELEVATION OF EXISTING STRUCTURE, CEILINGS, MECHANICAL, AD ELECTRICAL PRIOR TO INSTALLING ANY NEW PIPE.
2. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH ALL STRUCTURAL, ELECTRICAL AND MECHANICAL FEATURES OF THE BUILDING.
3. ALL HORIZONTAL PIPING IS RAN ABOVE THE CEILING OR IN JOIST SPACE. ALL PIPING SHALL DRAIN DOWN AS REQUIRED BY NFPA 13R. PIPING TO BE INSTALLED TO CONCEAL AS MUCH AS POSSIBLE.
4. INSTALL ALL FIRE PROTECTION MATERIALS IN AREAS WITH EXPOSED CEILINGS IN A NEAT FIRST CLASS MANNER. ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH INDUSTRY BEST PRACTICES. PIPING SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE UNLESS INDICATED OTHERWISE.
5. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PROJECT ENGINEERS FOR INSPECTIONS AND TESTING. PROVIDE A MINIMUM OF A WEEK NOTICE.
6. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR NEW WORK AREAS, CEILING HEIGHTS, SECTIONS AND RATED WALLS.
7. CONTRACTOR RESPONSIBLE FOR COORDINATION OF PIPING WEIGHT AND LOCATION PRIOR TO INSTALLATION OF ANY PIPE.
8. PIPING LAYOUT AND SIZING SHOWN ON PLANS IS DIAGRAMMATIC AND SHOWN FOR SPACE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR LAYOUT SHOP DRAWINGS, CALCULATIONS, SUBMITTAL DATA, TESTING , OWNER TRAINING AND CERTIFYING SYSTEM MEETS NFPA 13 AND CONTRACT DOCUMENTS.

FIRE PROTECTION SHOP DRAWINGS AND SUBMITTALS

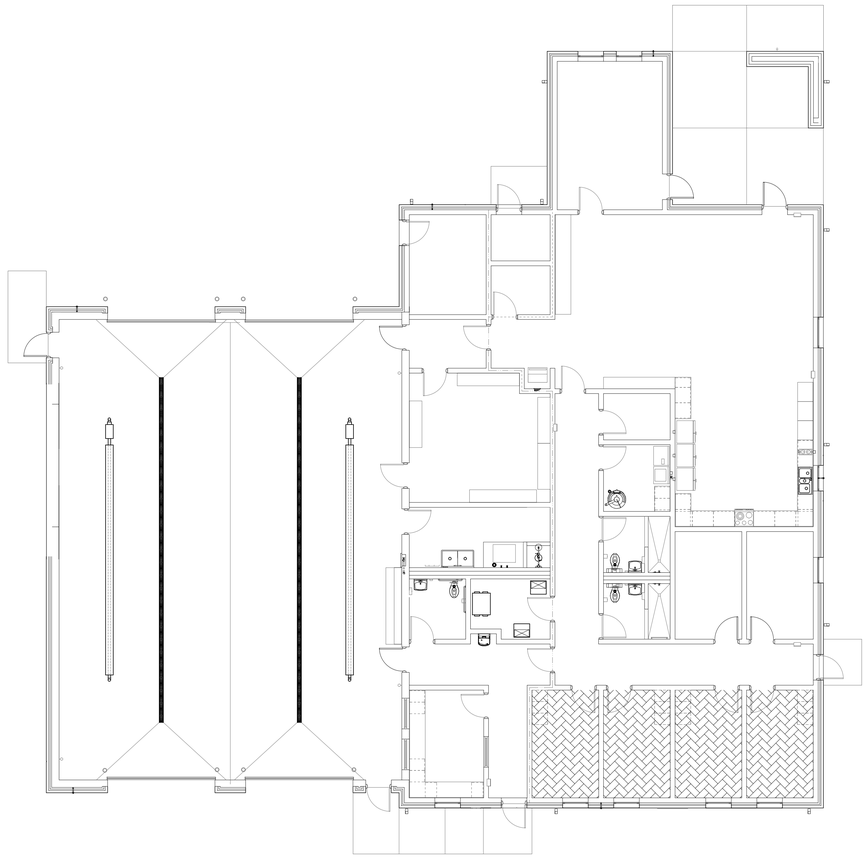
1. PROVIDE A NFPA 13R COMPLIANT SYSTEM TO PROVIDE COVERAGE TO AREAS INDICATED. CONTRACTOR RESPONSIBLE TO PROVIDE DETAILED SHOP DRAWINGS AND CALCULATIONS COMPLETE.
2. SHOP DRAWINGS SHALL INCLUDE:
   A. A REFLECTED CEILING PLAN INDICATING LOCATION OF SPRINKLER HEADS, LIGHTS, CEILING DEVICES, GRILLES, AUDIO VISUAL AND ANY DEVICES ATTACHED TO LIFT OUT CEILINGS. ALL SPRINKLER HEADS IN LAYIN CEILINGS TO BE CENTERED IN TILES.
   B. PREPARE A WORKING PIPE SHOP DRAWING BASED ON HYDRAULIC CALCULATIONS. THE PIPING DRAWINGS SHALL INDICATE THE ELEVATION OF THE PIPE, THE CONFIGURATION OF THE PIPING AND HANGERS, SIZE OF THE PIPE AND COORDINATION OF PIPING WITH OTHER DISCIPLINES, STRUCTURE AND DUCTWORK.
   C. HYDRAULIC CALCULATIONS ARE TO BE PREPARED USING A FLOW TEST WITHIN 90 DAYS.
   D. THE CONTRACTOR IS RESPONSIBLE FOR INCORPORATING LOCAL AUTHORITY HAVING JURISDICTION COMMENTS FOR COMPLIANCE.
   E. ALL ADDITIONAL MATERIALS TO BE INDICATED ON SHOP DRAWINGS.
   F. ALL LOW-POINT DRAIN DOWN LOCATION AND PENETRATIONS OF BUILDING STRUCTURE TO BE INDICATED ON SHOP DRAWINGS.
3. CONTRACTOR SHALL BE LICENSED IN THE STATE IN WHICH THE WORK IS PREFORMED. THE CONTRACTOR SHALL BE A NICET LEVEL III OR LEVEL IV OR SPECIAL HAZARD SUPPRESSION SYSTEMS.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS PRIOR TO THE START OF THE SPRINKLER SYSTEM INSTALLATION.

FIRE PROTECTION HYDRAULIC DEMANDS

1. SPRINKLER PROTECTION SHALL BE BASED ON NFPA 13R (0.05 GPM/SQ.FT.) WITH WATER SUPPLIED FROM BUILDING DOMESTIC WATER.
2. HYDRAULIC CALCULATION SHALL BE CALCULATED WITH 10 PSI SAFETY FACTOR OF SUPPLY CURVE.
3. FLOW DATA AND CALCULATIONS TO BE THE RESPONSIBILITY OF CONTRACTOR.

LEGEND

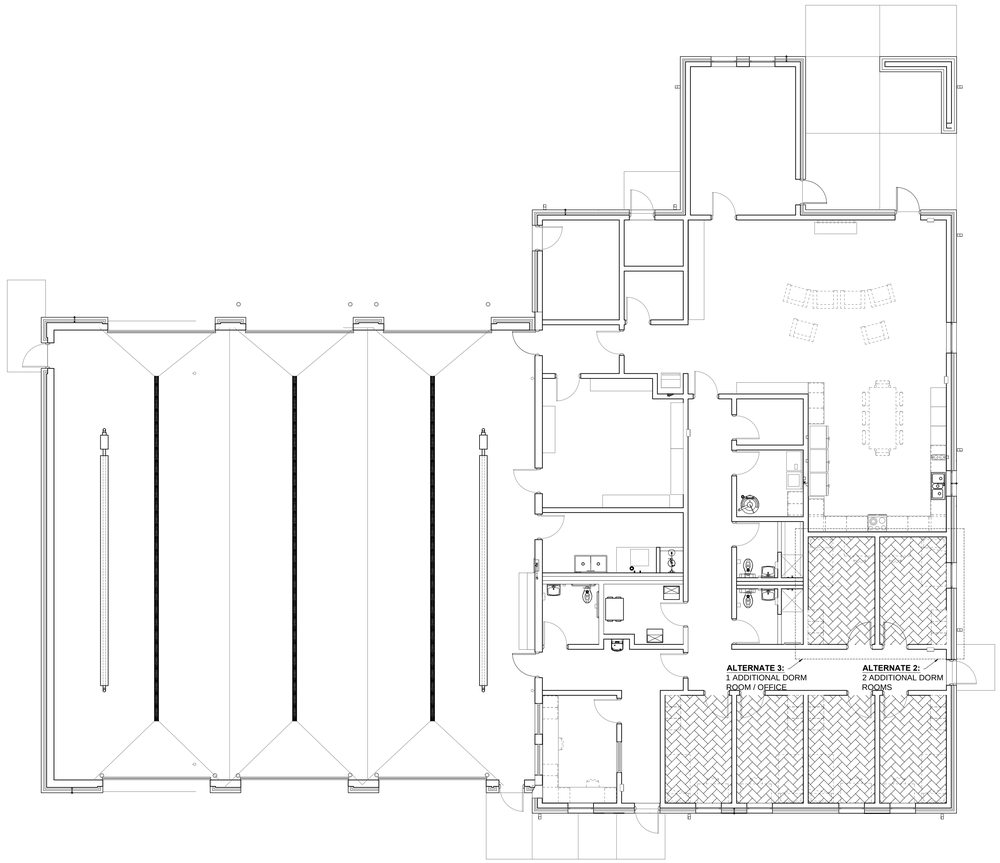
INDICATED AREA SHALL BE PROTECTED BY A NFPA 13R SPRINKLER SUPPLIED FROM THE DOMESTIC WATER SYSTEM. ALL OTHER AREAS ARE UNSPRINKLED.



PROJECT NORTH

1 / FS1.0 FLOOR PLAN - SPRINKLER

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



PROJECT NORTH

2 / FS1.0 ALTERNATE FLOOR PLAN - SPRINKLER

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

2WR S
11 Ninth Street, Suite 120
Columbus, GA 31901
P. (706) 571-6923

GEORGIA REGISTERED No. 15389 PROFESSIONAL ENGINEER W. ALEXANDER SHERRER

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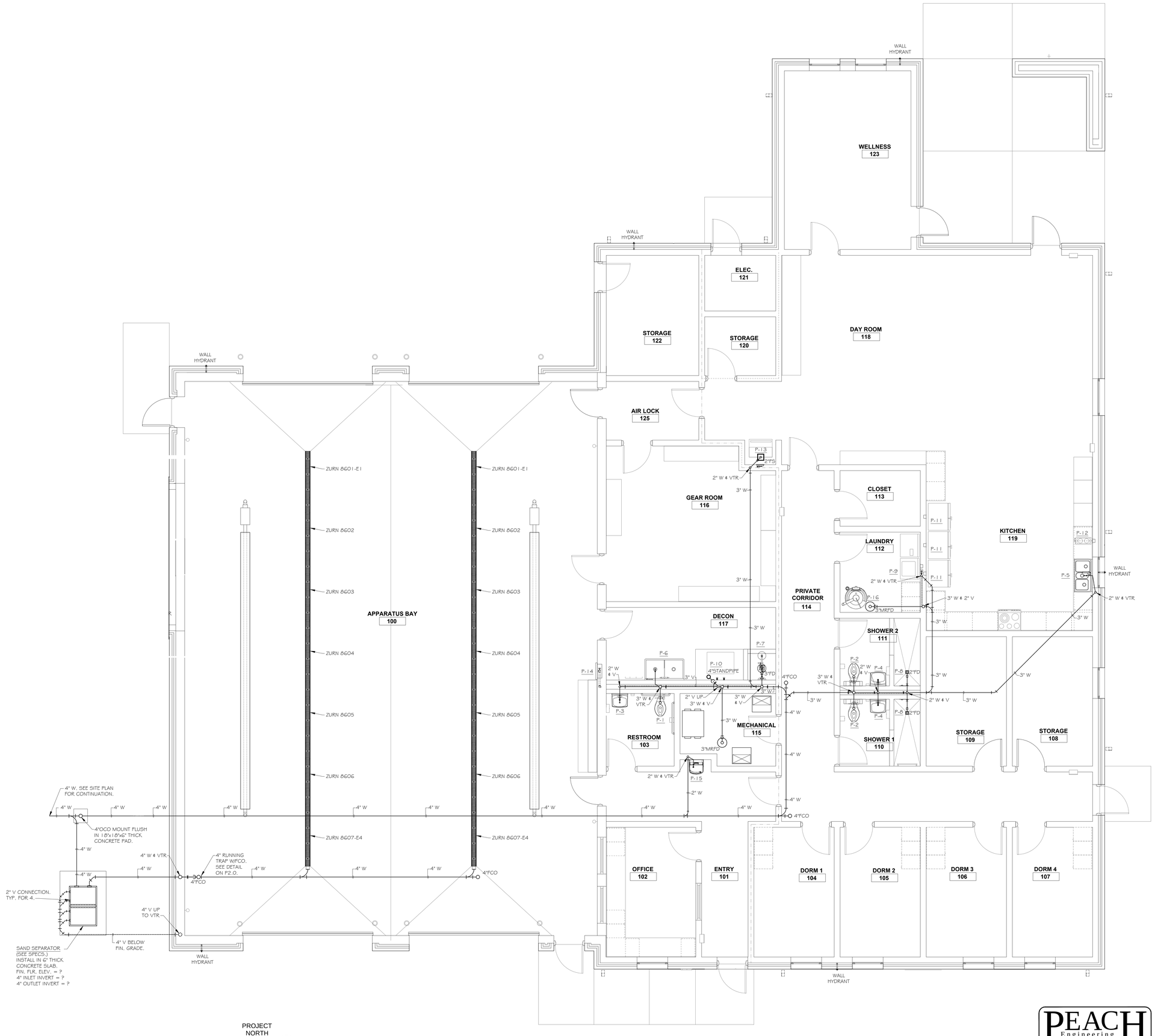
FLOOR PLANS - SPRINKLER

FS1.0

PEACH Engineering
1214 1st Avenue Suite 210
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(706) 596-1840
Fax: (706) 596-9233

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PROJECT NORTH

1 / P1.0 FLOOR PLAN - PLUMBING - WASTE & VENT PIPING
SCALE: 1/4" = 1'-0"

2WR S
11 Ninth Street, Suite 120
Columbus, GA 31901
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GEORGIA REGISTERED No. 15389 PROFESSIONAL ENGINEER SHERRARD

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA
100% CONSTRUCTION DOCUMENTS

Project No.:	26-00013
Date:	8/18/2026
Drawn by:	WAS
Checked by:	WAS
Revisions:	

No.	Date	Description

FLOOR PLAN - PLUMBING - WASTE & VENT PIPING

P1.0

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GEORGIA REGISTERED No. 15389 PROFESSIONAL ENGINEER SHERRARD

WALL HYDRANT

WELLNESS 123

ELEC. 121

STORAGE 122

STORAGE 120

DAY ROOM 118

AIR LOCK 125

GEAR ROOM 116

CLOSET 113

LAUNDRY 112

KITCHEN 119

PRIVATE CORRIDOR 114

DECON 117

SHOWER 2 111

SHOWER 1 110

RESTROOM 103

MECHANICAL 115

DORM 6 109

DORM 5 108

DORM 4 107

DORM 3 106

DORM 2 105

DORM 1 104

OFFICE 102

ENTRY 101

APPARATUS BAY 100

ALTERNATE
18'-0"
ADDITIONAL AREA

ZURN 8601-E1
ZURN 8602
ZURN 8603
ZURN 8604
ZURN 8605
ZURN 8606
ZURN 8607-E4

4" W, SEE SITE PLAN FOR CONTINUATION.
4"OCO MOUNT FLUSH IN 18"x18"x6" THICK CONCRETE PAD.
4" W
4" W & VTR
4" RUNNING TRAP W/FCO. SEE DETAIL ON P2.0.
4"FCO
2" V CONNECTION. TYP. FOR 4.
4" V UP TO VTR
4" V BELOW FIN. GRADE.
SAND SEPARATOR (SEE SPECS.) INSTALL IN 6" THICK CONCRETE SLAB. FIN. FLR. ELEV. = ? 4" INLET INVERT = ? 4" OUTLET INVERT = ?

P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-9 P-10 P-11 P-12 P-13 P-14 P-15 P-16
2" W & VTR
3" W
2" W & V
2" V UP
3" W & V
3" W & VTR
3"FD
2"FD
3"MRFD
4"STANDPIPE
2" V
2"FD

ALTERNATE 3:
1 ADDITIONAL DORM ROOM / OFFICE

ALTERNATE 2:
2 ADDITIONAL DORM ROOMS

PROJECT NORTH

1 / P1.1 ALTERNATE FLOOR PLAN - PLUMBING - WASTE & VENT PIPING
SCALE: 1/4" = 1'-0"

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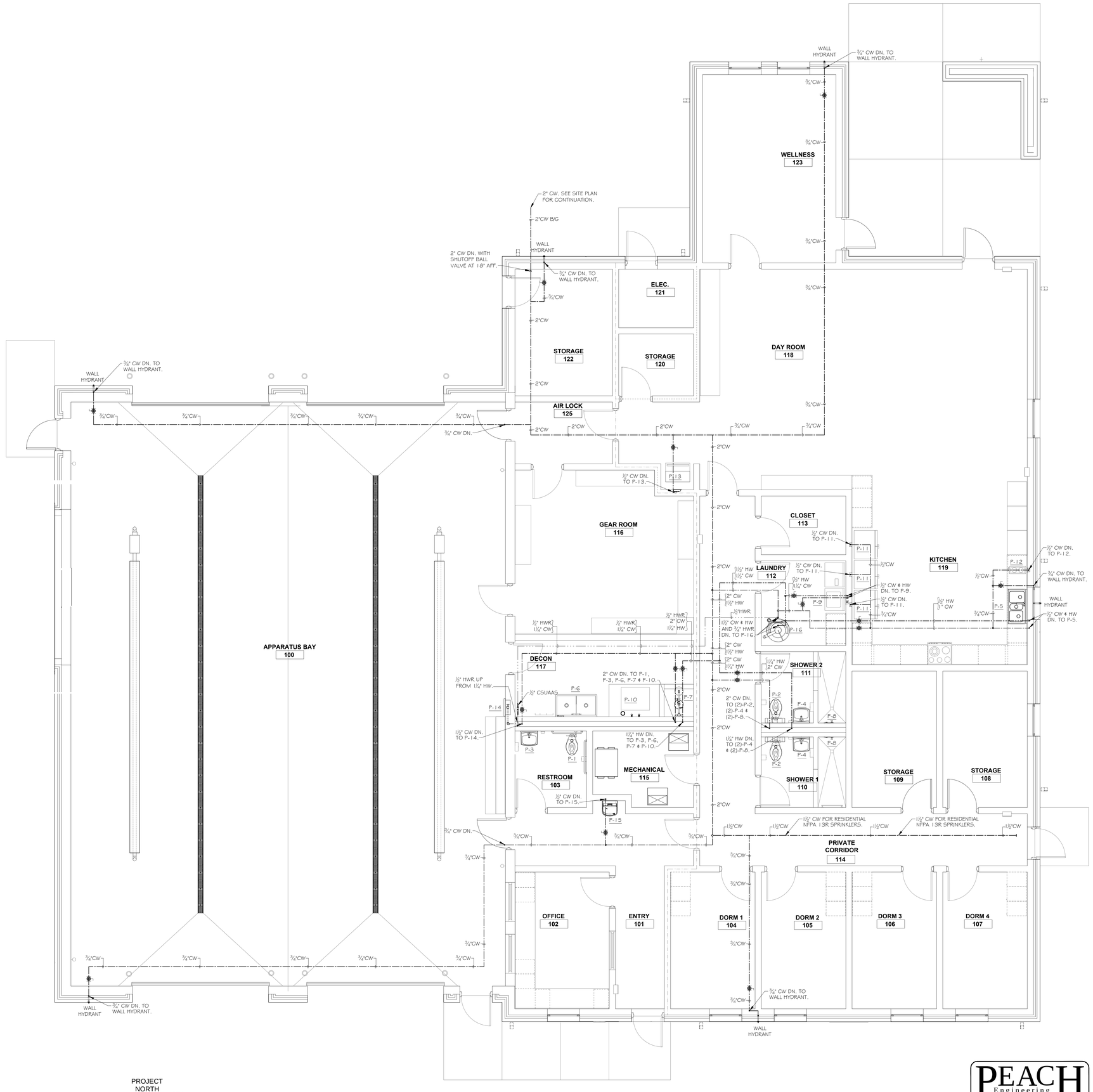
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ALTERNATE FLOOR PLAN - PLUMBING - WASTE & VENT PIPING

P1.1



PROJECT NORTH

1 / P1.2 FLOOR PLAN - PLUMBING - COLD & HOT WATER PIPING

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

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GEORGIA REGISTERED No. 15389 PROFESSIONAL ENGINEER WILLIAM A. SHERRER

TROUP COUNTY FIRE STATION #1

@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

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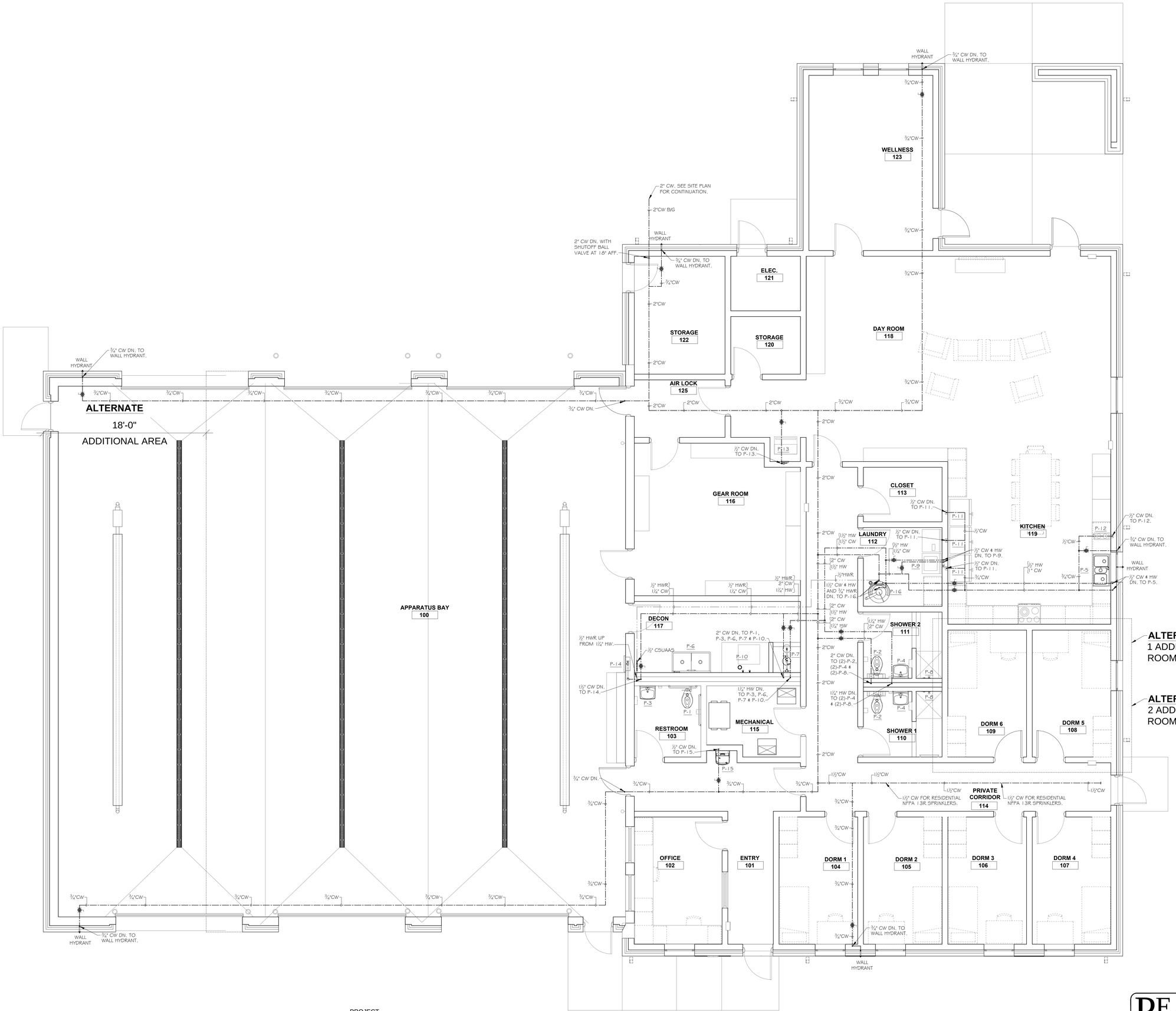
FLOOR PLAN - PLUMBING - COLD & HOT WATER PIPING

P1.2

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ALTERNATE 3:
1 ADDITIONAL DORM ROOM / OFFICE

ALTERNATE 2:
2 ADDITIONAL DORM ROOMS

PROJECT NORTH

1 / P1.3 ALTERNATE FLOOR PLAN - PLUMBING - COLD & HOT WATER PIPING
SCALE: 1/4" = 1'-0"

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GEORGIA REGISTERED No. 15389 PROFESSIONAL ENGINEER W. ALEXANDER SHERRER

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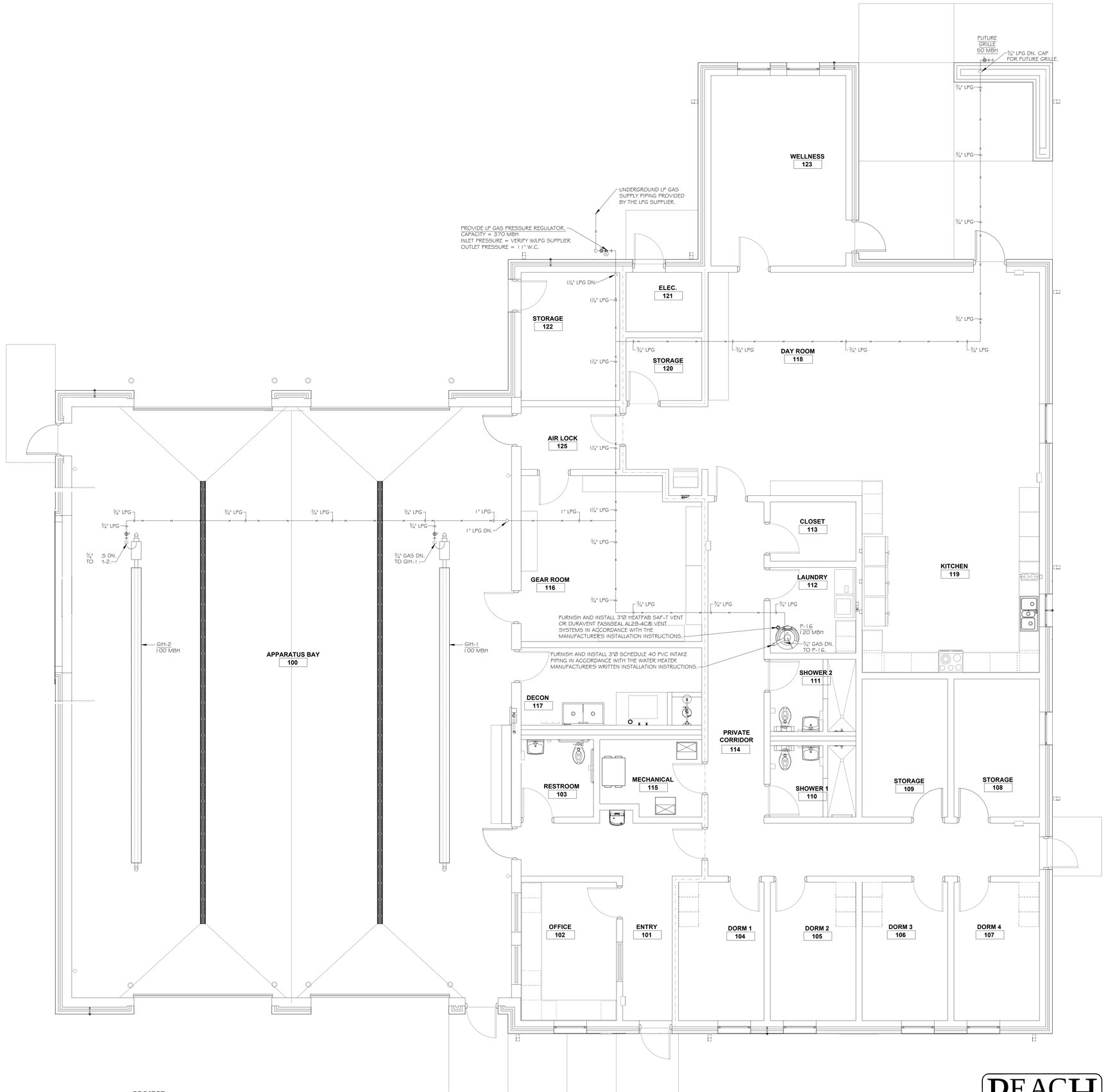
Revisions:

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ALTERNATE FLOOR PLAN - PLUMBING - COLD & HOT WATER PIPING

P1.3

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PROJECT NORTH

1 / P1.4 FLOOR PLAN - PLUMBING - LP GAS PIPING

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

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GEORGIA REGISTERED No. 15389 PROFESSIONAL ENGINEER W. ALEXANDER SHERROD

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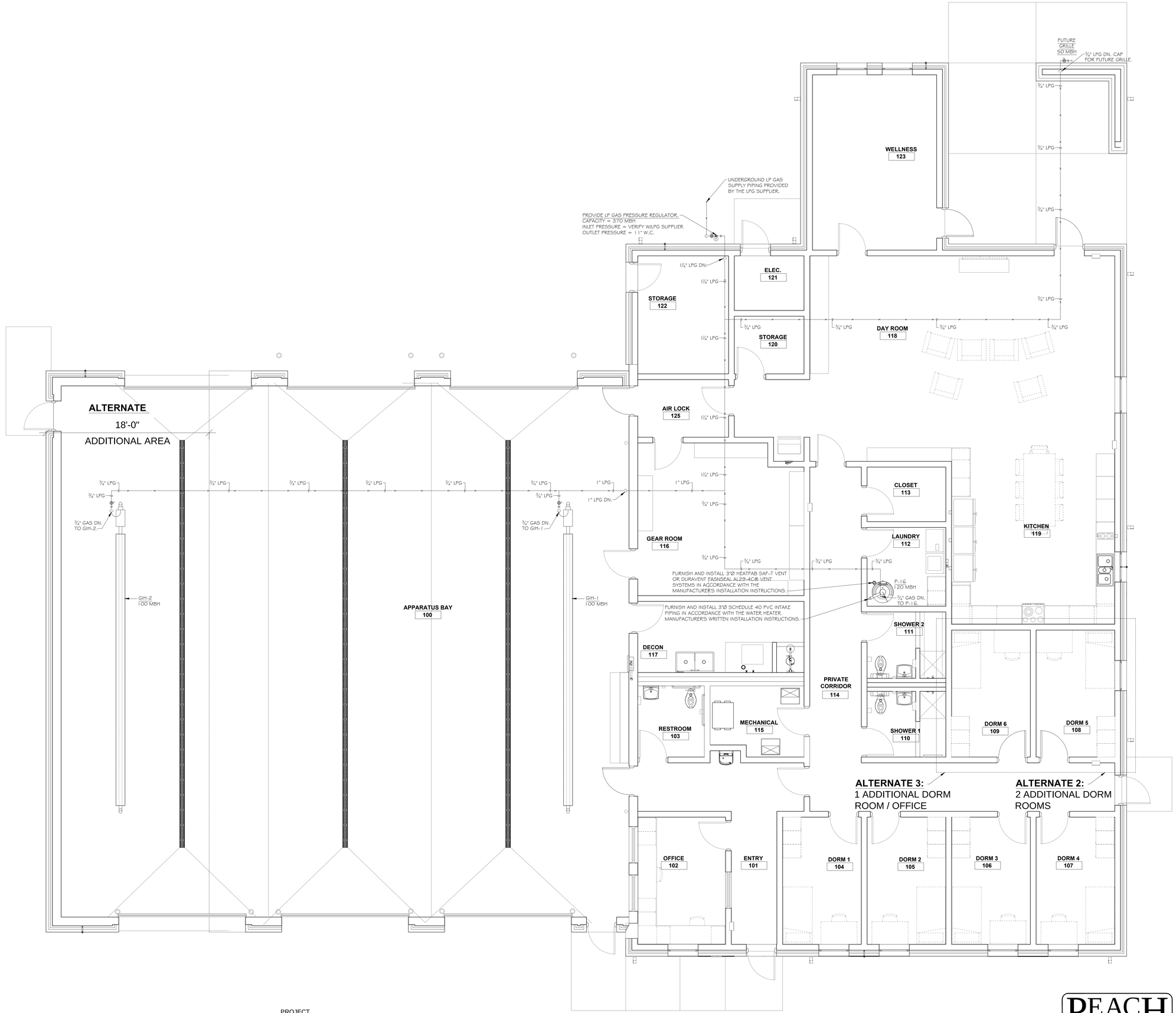
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No.	Date	Description

FLOOR PLAN - PLUMBING - LP GAS PIPING

P1.4

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PROJECT NORTH

1 / P1.5 ALTERNATE FLOOR PLAN - PLUMBING - LP GAS PIPING
SCALE: 1/4" = 1'-0"

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TROUP COUNTY FIRE STATION #1

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ALTERNATE FLOOR PLAN - PLUMBING - LP GAS PIPING

P1.5

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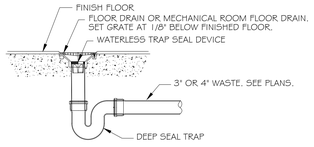
PLUMBING FIXTURE SCHEDULE

No.	FIXTURE TYPE	WASTE	C.W.	H.W.	MOUNTING HEIGHT
P-1	HANDICAPPED WATER CLOSET	3"	1"	---	FLOOR
P-2	WATER CLOSET	3"	1"	---	FLOOR
P-3	HANDICAPPED LAVATORY	1¼"	½"	½"	34" TO RIM
P-4	LAVATORY	1¼"	½"	½"	34" TO RIM
P-5	THREE COMPARTMENT SINK WITH DISPOSAL	(3)-1½"	½"	½"	COUNTERTOP
P-6	TWO COMPARTMENT UTILITY SINK	(2)-1½"	½"	½"	44" TO RIM
P-7	EMERGENCY SHOWER AND EYEWASH	3"FD & 1¼"	1¼" ½"	1¼" ½"	SEE ELEVATION OF P-7
P-8	SHOWER	2"	½"	½"	48" TO CONTROLS
P-9	WASHING MACHINE CONNECTIONS BOX	1½"	½"	½"	42" TO RIM OF BOX
P-10	WASHER - EXTRACTOR CONNECTIONS	4"	½"	½"	SEE DETAIL FOR P-10
P-11	ICE MAKER CONNECTION BOX	---	½"	---	18" A.F.F.
P-12	COLD WATER CONNECTION BOX	---	½"	---	38" A.F.F.
P-13	ICE MACHINE CONNECTION BOX	2"FS	½"	---	18" A.F.F.
P-14	HOSE VALVE	---	1½"	---	36" A.F.F.
P-15	BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION	1¼"	½"	---	31⅜" TO RIM
P-16	GAS-FIRED WATER HEATER	SEE PLANS			MOUNT ON 4" HIGH CONCRETE HOUSEKEEPING PAD

PLUMBING LEGEND

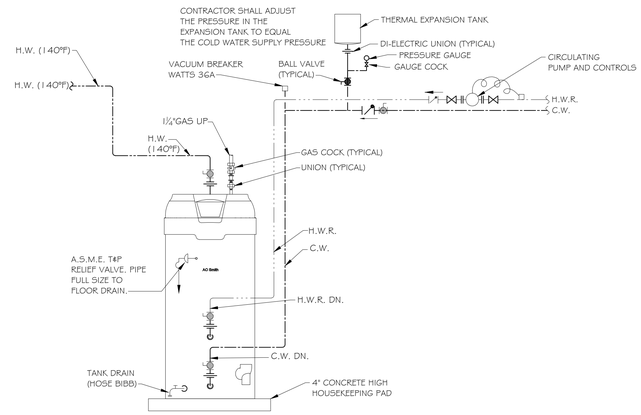
WASTE PIPING (W)	
VENT PIPING (V)	
COLD WATER PIPING (CW)	
FIRE SERVICE PIPING (F)	
HOT WATER PIPING (140°F)(HW)	
HOT WATER RECIRCULATING PIPING (140°F)(HWR)	
HWR CIRCUITSOLVER (CSUAS)	
LIQUID PROPANE GAS PIPING (LPG)	
BALL VALVE	
GATE VALVE	
CHECK VALVE	
UNION	
VENT THRU ROOF	VTR
FLOOR CLEANOUT	FCO
OUTSIDE CLEANOUT	OCO
FLOOR DRAIN	FD
MECHANICAL ROOM FLOOR DRAIN	MRFD
FLOOR SINK	FS
ABOVE FINISHED FLOOR	AFF
BELOW FINISHED FLOOR	BFF
BELOW FINISHED GRADE	BFG OR B/G

1 / P2.0



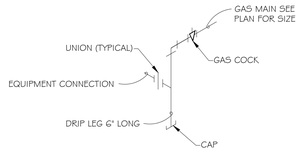
DETAIL - FLOOR DRAIN OR MECHANICAL ROOM FLOOR DRAIN WITH WATERLESS TRAP SEAL

N.T.S.



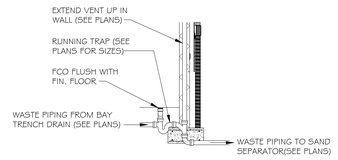
DETAIL - P-16 GAS-FIRED WATER HEATER

N.T.S.



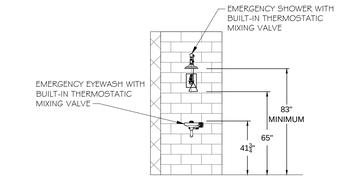
DETAIL - TYPICAL GAS EQUIPMENT CONNECTION

N.T.S.



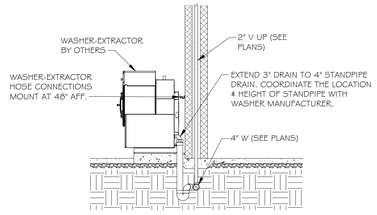
DETAIL - RUNNING TRAP

SCALE: ¼" = 1'-0"



P-7 EMERGENCY SHOWER & EYEWASH ELEVATION

SCALE: ¼" = 1'-0"



DETAIL - P-10 WASHER-EXTRACTOR CONNECTIONS

SCALE: ¼" = 1'-0"

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TROUP COUNTY FIRE STATION #1

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PLUMBING SCHEDULE & DETAILS

P2.0

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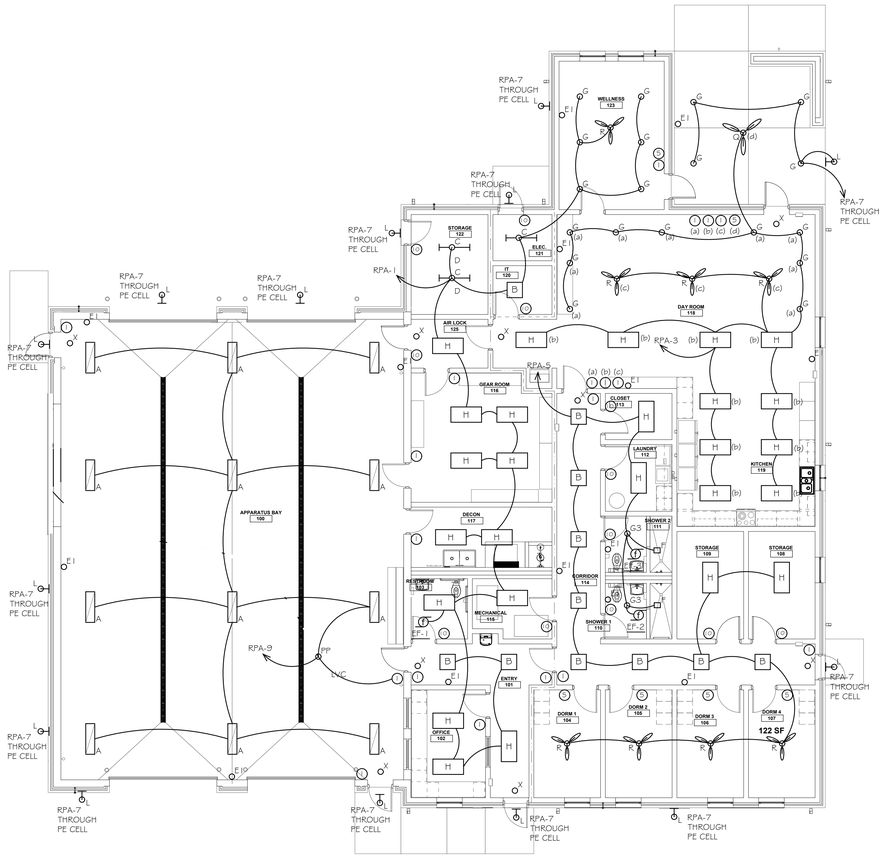
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LIGHTING FIXTURE SCHEDULE

A	LITHONIA: IBG 18000LM AFL HEF GND MVOLT 40K 80CRI
B	LITHONIA: 2BLT2 40L ADP EZ1 LP840
C	LITHONIA: ZL1D L48 5000LM FST MVOLT 40K;
F	GOTHAM: EVO 40K 30 G DFDAMF 120 NON CONDUCTIVE SHOWER FIXTURE SQUARE UNIT WITH WHITE TRIM
G	LITHONIA: LDN6SQ 50L LED DOWNLIGHT 40K PROVIDE WET LOCATION UNIT ON IF USED ON EXTERIOR
G3	LITHONIA: LDN6SQ 30L LED DOWNLIGHT 40K PROVIDE WET LOCATION UNIT ON IF USED ON EXTERIOR
H	LITHONIA: 2BLT4 48L ADP EZ1 LP840
L	LITHONIA: ICO4UDWC WALL MTD UP/DN CYLINDER 40K (LUMENS DOWN 35) AR L55 40K (LUMENS UP 25) COLORS/FINISHES CHOSEN BY ARCHITECT WALL MOUNTED EXTERIOR FIXTURE SEE ARCH ELEVATIONS
R	EXTERIOR GRADE CEILING FANS WITH WALL CONTROL: ARCHITECT TO SELECT HUNTER: 51180 52" COORDINATE WITH ARCHITECTS RCP
R	INTERIOR GRADE CEILING FANS WITH WALL CONTROL: ARCHITECT TO SELECT HUNTER: ~~5340H~~ SERIES 44" **MODEL 51707 WITH LIGHT KIT** COORDINATE WITH ARCHITECTS RCP
EI	LITHONIA: ELM4L WITH EM BATTERY CONNECT TO NEAREST UNSWITCHED HOT LEG
S	LITHONIA: AFT UNIT WITH EMERGENCY BATTERY CONNECT TO NEAREST UNSWITCHED HOT LEG
X	LITHONIA: LQM P R WITH EMERGENCY BATTERY CONNECT TO NEAREST UNSWITCHED HOT LEG
NL	INDICATES THE FIXTURE TO FUNCTION AS A NIGHT/LIGHT 24 HOUR OPERATION
PP	LIGHTING CONTROL POWER PACK
LVC	LOW VOLTAGE COMMUNICATION WIRING FOR LIGHITNG CONTROLS SHOWN AS NEEDED ON PLANS FOR CLARITY AND MULT-ZONE

LIGHTING CONTROL SCHEDULE

1. LIGHTING CONTROL DEVICE 1
   NLIGHT NPODM WALL POD ON/OFF CONTROL
2. LIGHTING CONTROL DEVICE 14
   NLIGHT NCM PDT9 STANDARD RANGE DUAL TECHNOLOGY 360 DEGREE OCCUPANCY SENSOR
3. LIGHTING CONTROL DEVICE 10
   SENSOR SWITCH PUSHBUTTON ON/OFF DUAL TECH SENSOR
4. LIGHTING CONTROL DEVICE 20 NPP16
   16A POWER PACK.
5. LIGHTING CONTROL DEVICE 4
   NLIGHT NPODM-DX WALL POD ONE ON/OFF CONTROL, ONE DIMMER CONTROL
6. FAN SPEED CONTROLLER/LIGHTING CONTROL
   PROVIDED WITH UNIT OR SEPERATELY
   DEPENDING UPON MANUFACTUER



FLOOR PLAN-LIGHTING

1/8" = 1'-0"

NOTES:
1. COORDINATE ALL LIGHTING INSTALLATION WITH RCP PLAN AND ARCHITECTURAL DETAILS.

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TROUP COUNTY FIRE STATION #1
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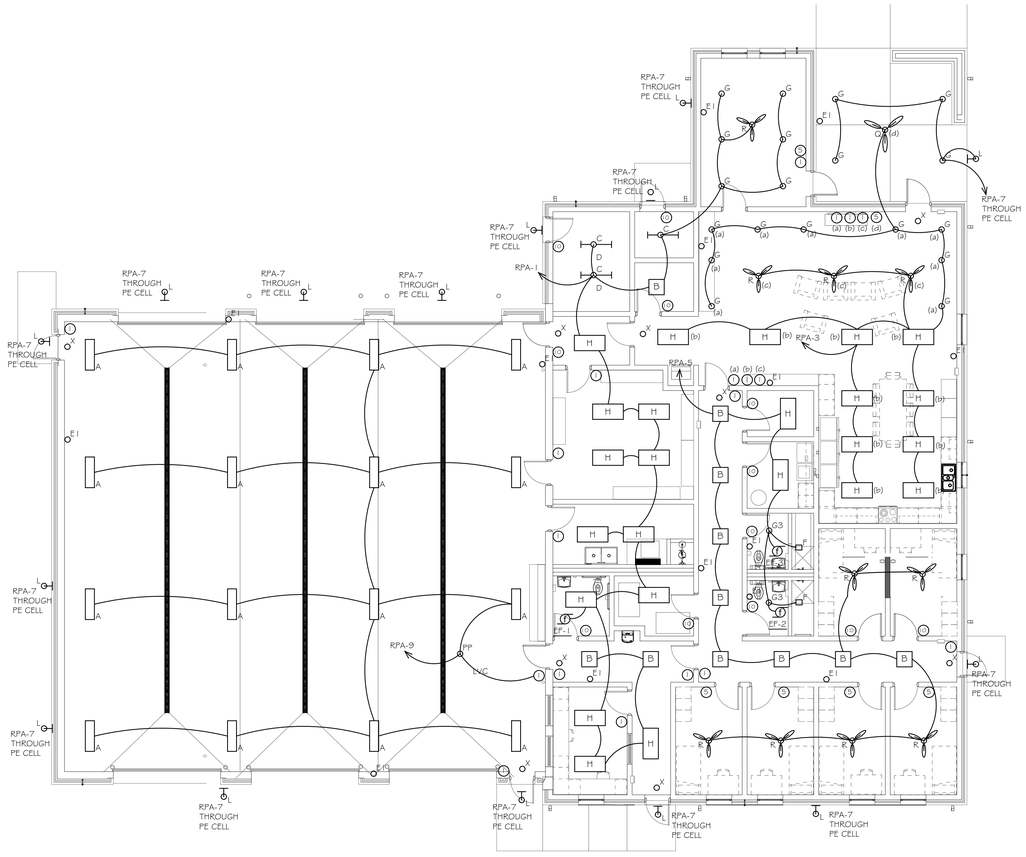
No.	Date	Description

FLOOR PLAN WITH ALTERNATE 1 LIGHTING

E1.0

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FLOOR PLAN ALTERNATE - 3 APPARATUS BAYS-LIGHTING

1/8" = 1'-0"

NOTES:

1. COORDINATE ALL LIGHTING INSTALLATION WITH RCP PLAN AND ARCHITECTURAL DETAILS.

2WR ARCHITECTS

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FLOOR PLAN WITH ALTERNATE 2-4 LIGHTING

E1.1

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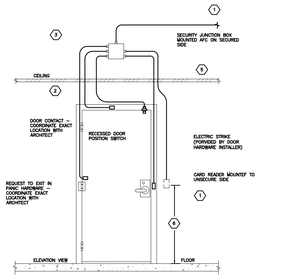
ELECTRICAL SYMBOLS

- WALL OUTLET, DUPLEX OUTLET, 20 A, 125 V, GROUNDED, GROUND FAULT CIRCUIT INTERUPTER, HUBBELL #GF-5362-GY
- WALL OUTLET, DUPLEX OUTLET, 20 A, 125 V, GROUNDED, HUBBELL #5362
- D — WALL OUTLET, DOUBLE DUPLEX OUTLET, 20 A, 125 V, GROUNDED, HUBBELL #5362
- PROVIDE OUTLET TYPE AS DIRECTED BY MANUFACTURER
- PROVIDE HEAVY DUTY CHORD REEL WITH GFCI OUTLET COORDINATE MOUNTING WITH STRUCTURE
- WIREMOLD 20GB50GTR TAMPER RESISTANT PLUGMOLD IN WHITE COORDINATE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL ELEVATIONS
- LIGHTING / POWER PANEL - SEE SPECIFICATIONS AND PANELBOARD SCHEDULES
- UP — INDICATES CONDUIT STUB UP; DN — INDICATES CONDUIT STUB DOWN
- BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND
- BRANCH CIRCUIT CONCEALED IN WALL OR CEILING
- HOME RUN TO PANELBOARD, ANY CIRCUIT WITHOUT FURTHER DESIGNATION
- 2#12 - 1/2 "C
- 3#12 - 1/2 "C
- 4#12 - 1/2 "C
  ETC, PER NATIONAL ELECTRICAL CODE
- E — EMPTY CONDUIT - 3/4 "C UNLESS OTHERWISE NOTED
- BRANCH CIRCUIT EXPOSED
- EXHAUST FAN MOTOR-FURNISHED BY OTHERS, CONNECTION BY ELECTRICAL CONTRACTOR
- FUSED DISCONNECT SWITCH

NTS	NOT TO SCALE	WH	WATER HEATER
AFF	ABOVE FINISHED FLOOR	OC	OVER COUNTER, SINK, OR CABINET
EX	EXISTING	UC	UNDER COUNTER
VER	VERIFY LOCATION	EF	EXHAUST FAN
RT	RAINTIGHT		
WP	WEATHERPROOF	D	DRYER
(102)	ROOM NUMBER	W	TWMHER
EWC	ELECTRIC WATER COOLER		GROUNDING ELECTRODE PER NEC
NL	NIGHT LIGHT		
RMC	RIGID METAL CONDUIT		
EMT	ELECTRICAL METALLIC TUBING		
IMC	INTERMEDIATE METAL CONDUIT		

- P D — POWER/DATA FLOOR BOX: PROVIDE WIREMOLD TWO COMPARTMENT BOX WIREMOLD RPB2-OG SUPPLY WITH TWO DUPLEX RECEPTACLES AND ONE MULTI PORT DATA OUTLET
- UNIT "MARK", SEE EQUIPMENT CALCULATIONS FOR CIRCUIT CHARACTERISTICS
- UNIT CIRCUIT DESIGNATION
- DATA OUTLET CONSISTING OF TWO CAT-6 CABLES TERMINATED ON EACH END CAT-6 CABLE SHALL MEET ALL STARDARDS FOR CAT-6 CABLING AND BE OF AN ACCEPTABLE MANUFACTURER TO OWNER. SEE DATA INSTALLATION NOTES
- AP — WIRELESS ACCESS POINT CONSISTING OF TWO CAT-6 CABLES TERMINATED ON EACH END CAT-6 CABLE SHALL MEET ALL STARDARDS FOR CAT-6 CABLING AND BE OF AN ACCEPTABLE MANUFACTURER TO OWNER. SEE DATA INSTALLATION NOTES
- AC — ACCESS CONTROLS BY VENDOR; CONTRACTOR SUPPLY ANY NEEDED 120V FOR TX

ON THE TWO BAY DESIGN, PROVIDE THREE CEILING MOUNTED CORD REELS SIMILAR TO REELCRAFT L-4545-123-9GC-12/3 X 45 FT, 15A, TRIPLE TAP GFCI TWISTLOCK ELECTRIC CORD REEL AT LOCATIONS SHOWN ON ARCHITECTURAL RCP



GENERAL NOTES

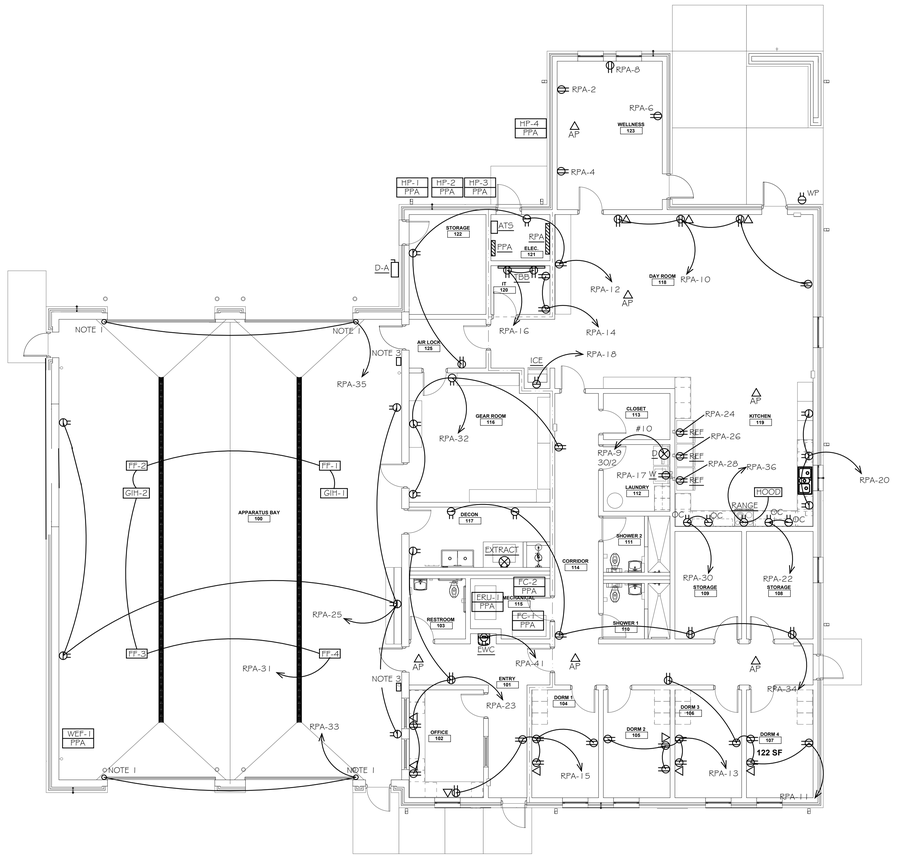
1. THESE DIAGRAMS INDICATE ROUGH-IN ONLY FOR ACCESS CONTROL COORDINATE WITH SECURITY CONSULTANT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. CONTRACTOR TO INSTALL ALL EQUIPMENT AND CABLING FOR ACCESS CONTROL SYSTEM.

KEYED NOTES

1. ONE (1) 1" EC FROM SECURITY JUNCTION BOX TO ACCESS CONTROL PANEL IN MAIN ELECTRICAL ROOM.
2. ONE (1) 3/4" EC FROM DOOR POSITION SWITCH MOUNT LOCATION TO ACCESSIBLE AFC.
3. ONE (1) 3/4" EC FROM ACCESSIBLE AFC STUBBED BEHIND DOOR FRAME.
4. DOUBLE GANG BOX WITH SINGLE GANG DEVICE RING MOUNTED 42" A.F.F MIN ONE (1) 3/4" TO ACCESSIBLE AFC.
5. ONE (1) 3/4" CONDUIT
6. COORDINATE DUCT MOUNTING HEIGHT WITH SECURITY CONSULTANT.

ACCESS CONTROL ROUGH-IN DETAIL

NTS



OMIT FF-1 THRU FF-4

PROVIDE 40/2 CIRCUITS WITH #8 FOR THE PROPOSED MAGNEGRIP EXHAUST SYSTEM BACK TO THE MAIN PANEL, PPA. EACH UNIT SHOULD HAVE A DEDICATED CIRCUIT. COORDINATE LOCATION WITH ARCHITECTURAL RCP.

PROVIDE POWER TO THE ELECTRIC OVEN IN THE KITCHEN, PROVIDE CUT SHEET FROM MANUFACTURER AND PROVIDE DEDICATED BREAKER IN PANEL.

P-16 IS THE 120V CIRCUIT TO BE PROVIDED FOR THE RECIRCULATING PUMP

FLOOR PLAN-POWER & AUXILIARIES

1/8" = 1'-0"

DRAWING NOTES:
1. PROVIDE POWER TO G.C. PROVIDED DOOR AND RED/GREEN LIGHT UNIT. INSTALL ALL COMPONENTS PROVIDED WITH UNIT INCLUDING BUT NOT LIMITED TO THE CONTROLLER, LIGHTING FIXTURE, ETC. ARCHITECT WILL DETERMINE HEIGHT OF DOOR LIGHTS ONCE PROJECT IS UNDER CONSTRUCTION.
2. OWNER PROVIDED AIR COMPRESSOR. VERIFY CIRCUIT INFORMATION ONCE PROVIDED. A 5 H.P. UNIT HAS BEEN ASSUMED AT THIS STAGE. SEE PANEL SCHEDULE AND EQUIPMENT CALCS.
3. CONTROLLERS FOR O.H. DOORS SHALL BE LOCATED SUCH THAT EITHER DOOR CAN BE CONTROLLED FROM THESE TWO LOCATIONS. SEE ARCHITECTS PLANS FOR MORE INFORMATION.

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GEORGIA REGISTERED No. 13985 PROFESSIONAL THOMAS W. MOORE

TROUP COUNTY FIRE STATION #1
@ BURKES CHAPEL ROAD
TROUP COUNTY, GEORGIA

100% CONSTRUCTION DOCUMENTS

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Drawn by:	JML
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Revisions:

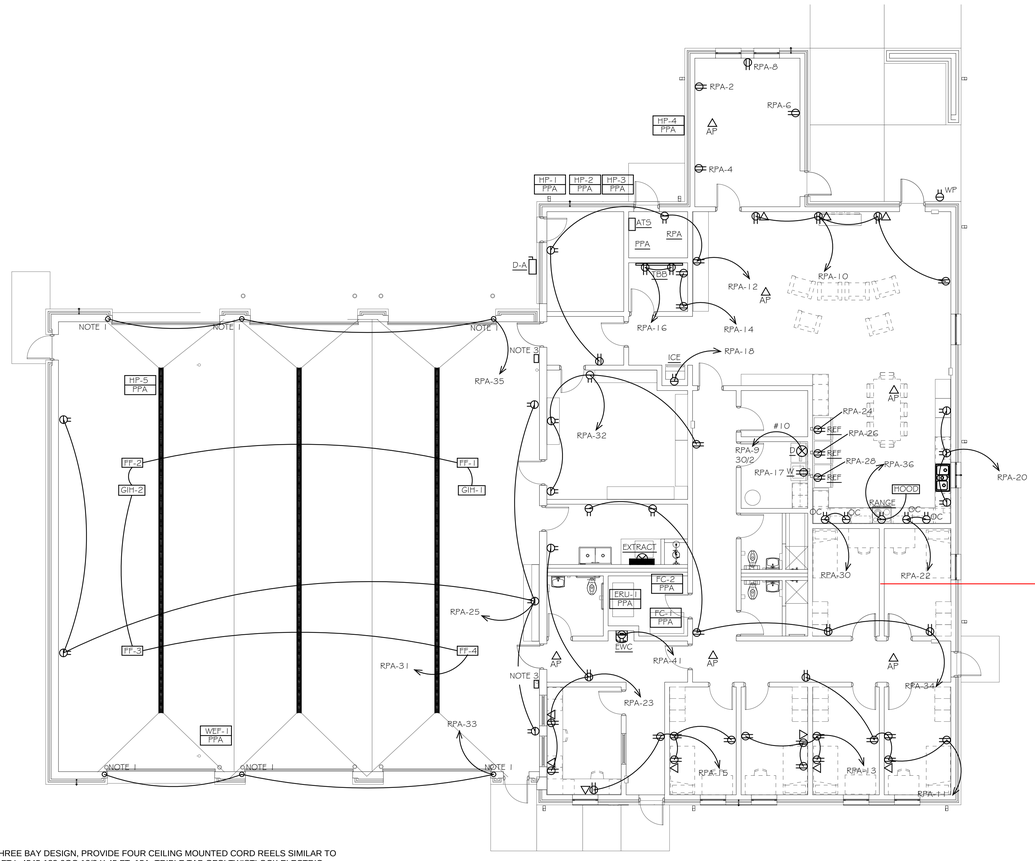
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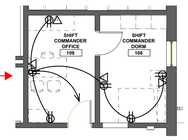
FLOOR PLAN WITH ALTERNATE 1 POWER & AUXILIARIES

E2.0

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ON THE THREE BAY DESIGN, PROVIDE FOUR CEILING MOUNTED CORD REELS SIMILAR TO REELCRAFT L-4545-123-9GC-123 X 45 FT, 15A, TRIPLE TAP GFCI TWISTLOCK ELECTRIC CORD REEL AT LOCATIONS SHOWN ON ARCHITECTURAL RCP

OMIT FF-1 THRU FF-4

PROVIDE 40/2 CIRCUITS WITH #8 FOR THE PROPOSED MAGNEGRIP EXHAUST SYSTEM BACK TO THE MAIN PANEL, PPA. EACH UNIT SHOULD HAVE A DEDICATED CIRCUIT. COORDINATE LOCATION WITH ARCHITECTURAL RCP.

PROVIDE POWER TO THE ELECTRIC OVEN IN THE KITCHEN, PROVIDE CUT SHEET FROM MANUFACTURER AND PROVIDE DEDICATED BREAKER IN PANEL.

P-16 IS THE 120V CIRCUIT TO BE PROVIDED FOR THE RECIRCULATING PUMP

FLOOR PLAN ALTERNATE - 3 APPARATUS BAYS-POWER & AUXILIARIES

1/8" = 1'-0"

DRAWING NOTES:
1. PROVIDE POWER TO G.C. PROVIDED DOOR AND RED/GREEN LIGHT UNIT. INSTALL ALL COMPONENTS PROVIDED WITH UNIT INCLUDING BUT NOT LIMITED TO THE CONTROLLER, LIGHTING FIXTURE, ETC. ARCHITECT WILL DETERMINE HEIGHT OF DOOR LIGHTS ONCE PROJECT IS UNDER CONSTRUCTION.
2. OWNER PROVIDED AIR COMPRESSOR. VERIFY CIRCUIT INFORMATION ONCE PROVIDED. A 5 H.P. UNIT HAS BEEN ASSUMED AT THIS STAGE. SEE PANEL SCHEDULE AND EQUIPMENT CALCS.
3. CONTROLLERS FOR O.H. DOORS SHALL BE LOCATED SUCH THAT EITHER DOOR CAN BE CONTROLLED FROM THESE TWO LOCATIONS. SEE ARCHITECTS PLANS FOR MORE INFORMATION.

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FLOOR PLAN WITH ALTERNATE 2-4 POWER & AUXILIARIES

E2.1

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DATA INSTALLATION NOTES:

THE INTENT IS FOR THE COMMUNICATIONS CONTRACTOR TO INSTALL A COMPLETE NETWORK CABLING SYSTEM

BELOW ARE LISTED THE COMPONENTS FOR THE DATA ROOM 103.

ALL COPPER CABLING SHALL BE CERTIFIED CAT 6A TERMINATED 568B ON ANGLED 48 PORT PATCH PANELS

(1) CHATSWORTH WALL MOUNTED RACK W/WIRE MANAGER: MODEL 57014-703
CHATSWORTH VERTICAL CABLE MANAGER: MODEL 13912-703
CHATSWORTH WALL TO RACK MOUNTING KIT: MODEL 11911-712
CHATSWORTH RACK MOUNTED POWER STRIP: MODEL 12816-705
UPS: TRIPP LITE SMART1000RM2U (800W) NIC CARD: WEBCARDLX
CORNING RACK MOUNT ENCLOSURE: MODEL CCH-02U
CORNING OM3 COUPLER PANEL, LC: MODEL CCH-CP12-E4
CORNING LC FIBER CONNECTOR: MODEL 95-050-99-X
MATCHING 48 PORT PATCH PANELS WITH ALL CONNECTING PATCH CORDS NUMBER AS NEEDED WITH FUTURE SPACE AVAILABLE

FIBER
FIBER PROVIDED BY OWNER THROUGH UTILITY CO. INTO BUILDING USING CONTRACTOR PROVIDED ENTRANCE CONDUIT.
CONTRACTOR SHALL ENSURE THAT ALL NEEDED MODULES AND COMPONENTS ARE PROVIDED FOR SEEMLESS FIBER CONNECTION AN OPERATION (COORDINATE THIS WORK WITH OWNER)

CABLING COLOR SHALL BE: (VERIFY WITH OWNER)
BLUE: DATA OUTLETS AND AP'S
YELLOW: CAMERA OUTLETS/SECURITY
WHITE: FOR ALL OTHER CONNECTIONS
LABEL EACH CABLE AT BOTH ENDS

PATCH PANELS:
DATA DROPS SHALL TERMINATE IN THEIR OWN PATCH PANEL
PROVIDE TWO EMPTY PATCH PANELS FOR OWNER SYSTEMS

UPON COMPLETION CERTIFY ALL CABLING AND
PROVIDE TEST RESULTS FOR OWNER REVIEW
PROVIDE AS-BUILT DRAWINGS UPON
COMPLETION FOR OWNER INSTALLER
MUST BE CERTIFIED CABLING AND FIBER OPTIC
TECHNICIAN

INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETE SET IF INSTALLATION SHOP DRAWINGS FOR THE OWNERS IT DEPARTMENT TO REVIEW BEFORE INSTALLATION BEGINS.

E.C. MUST COORDINATE EXACT POWER
REQUIREMENTS FOR VENDOR

F	PULL STATION
SF	SPEAKER STROBE
	STROBE ONLY, NEW AND RELOCATED
FACP	FIRE ALARM CONTROL PANEL
	SMOKE DETECTOR
F	HEAT DETECTOR, COMBINATION FIXED AND RATE OF RISE
SFS	SPRINKLER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
	FIRE ALARM CHIME FOR SLEEPING QUARTERS
HFS	HOOD SUPPRESSION MONITOR AS NEEDED
FC-1 (SUPPLY)	DUCT MOUNTED SMOKE DETECTOR
S	APPARATUS BAY/HIGH CEILING LOUDSPEAKER SEE SPECIFICATION THIS SHEET
S	CEILING LOUD SPEAKER: EQUAL TO VALCOM V-C806FK ROUND IN AREAS WITH OPEN STRUCTURE PROVIDE AXIS C1510 PENDANT SPEAKER

APPARATUS BAY LOUD SPEAKER SPECIFICATION

THE LOUDSPEAKER SHALL BE SOUNDSPHERE MODEL 110B.

THE LOUDSPEAKER SHALL BE SELF CONTAINED, WIDE RANGE DEVICE WITH A WIDE
COVERAGE PATTERN. THE FREQUENCY RESPONSE SHALL BE 150Hz TO 12k Hz +/-6dB; THE VERTICAL POLAR COVERAGE SHALL BE 180 DEGREES.

THE LOUDSPEAKER SHALL HAVE A MINIMUM SENSITIVITY OF 96dB SPL 1 WATT/1 METER, A CONTINUOUS POWER HANDLING CAPABILITY OF 35 WATTS RMS, AND A RATED IMPEDANCE OF 4 ohms.

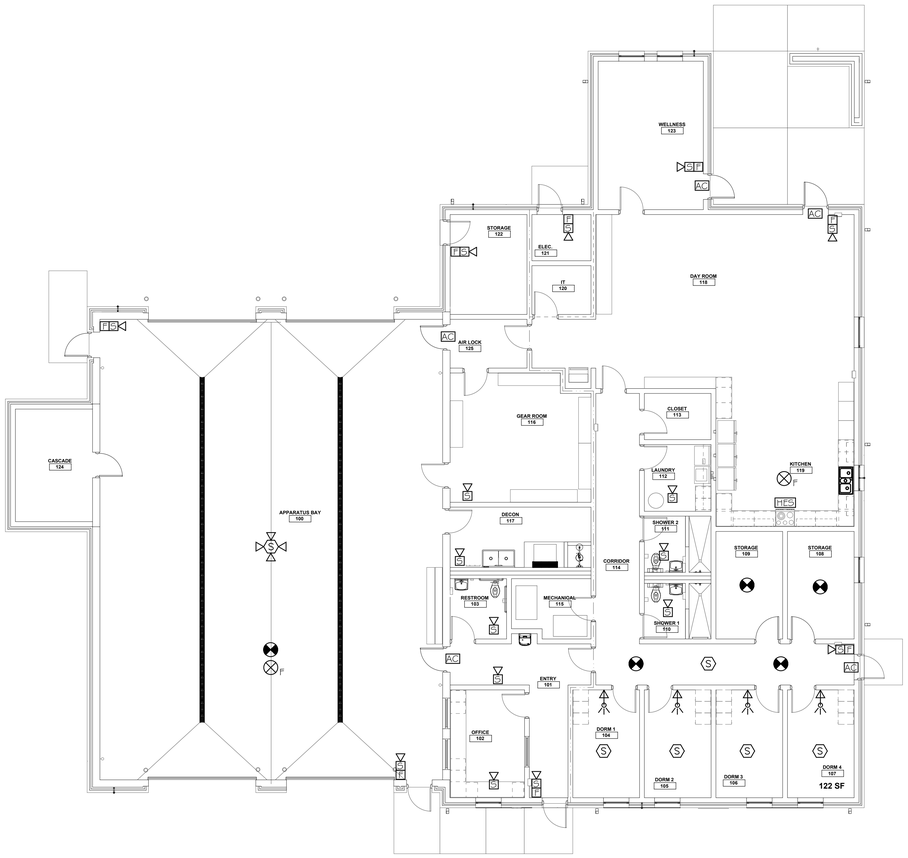
THE LOUDESPEAKER DRIVER SHALL BE ON 6-1/2 INCH FULL RANGE UNIT. THE DRIVER
SHALL BE MOUNTED IN A SPHERICAL ENCLOSURE MADE OF STRUCTURAL FOAM POLYSTYRENE. ASSEMBLY HARDWARE SHALL BE RUSTPROOF.

PROVIDE OPTIONAL MOUNTING KITS REQUIRED FOR THIS PROJECT SPECIFICS.

PROVIDE ON BOARD POWER 2 AMPLIFIER.

ARCHITECT SHALL DICTATE COLOR OF UNIT.

PROVIDE ALL NECESSARY WIRING, COMPONENTS FOR PROPER CONNECTION TO THE PAGING SYSTEM.



FLOOR PLAN-FIRE ALARM

1/8" = 1'-0"

DRAWING NOTES:
1. EXTERIOR WEATHERPROOF SPEAKER STROBE FOR SPRINKLER FLOW.
2. PROVIDE CAT6A CABLE OR MANUFACTURER RECOMMENDED SPEAKER CABLE FROM EACH SPEAKER TO AREA ABOVE DATA ROOM. LEAVE 12 FT OF SLACK.

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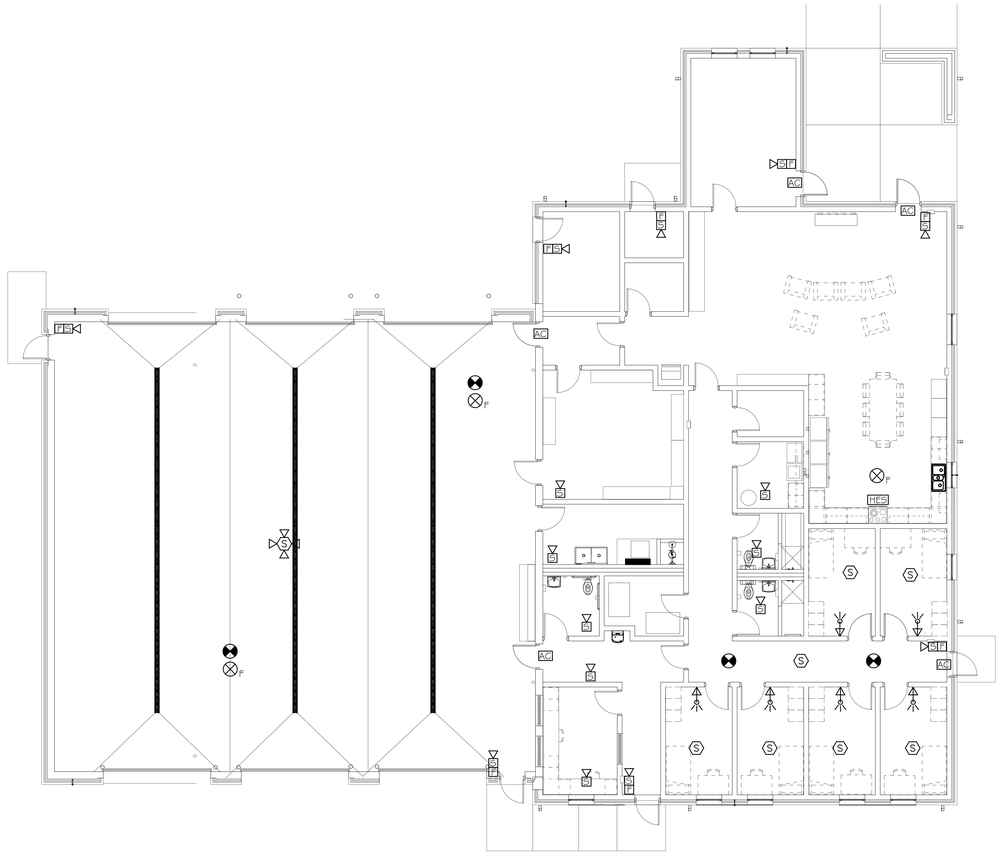
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FLOOR PLAN WITH ALTERNATE 1 FIRE ALARM

E3.0

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FLOOR PLAN ALTERNATE - 3 APPARATUS BAYS - FIRE ALARM

1/8" = 1'-0"

DRAWING NOTES:

1. EXTERIOR WEATHERPROOF SPEAKER STROBE FOR SPRINKLER FLOW.
2. PROVIDE CAT6A CABLE OR MANUFACTURER RECOMMENDED SPEAKER CABLE FROM EACH SPEAKER TO AREA ABOVE DATA ROOM. LEAVE 12 FT OF SLACK.

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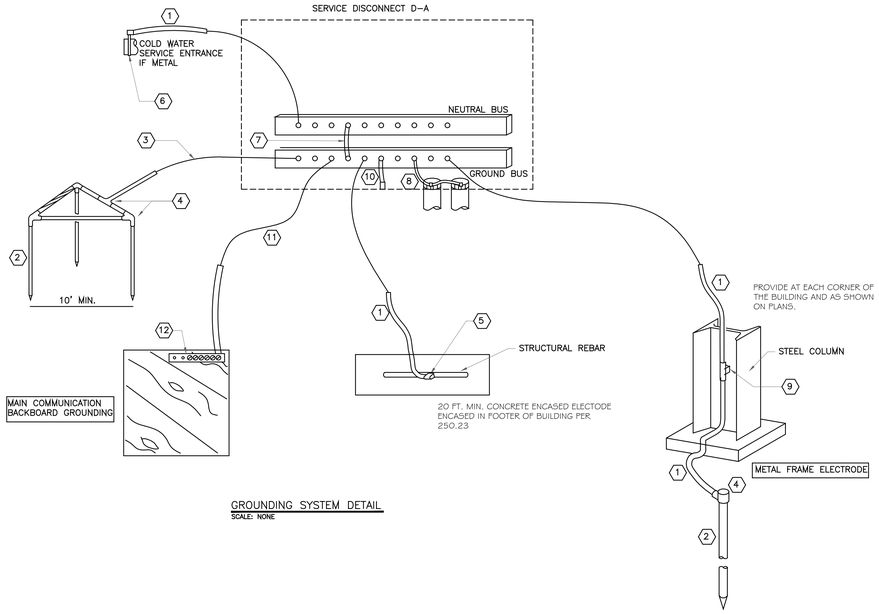
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FLOOR PLAN WITH ALTERNATE 2-4 FIRE ALARM

E3.1

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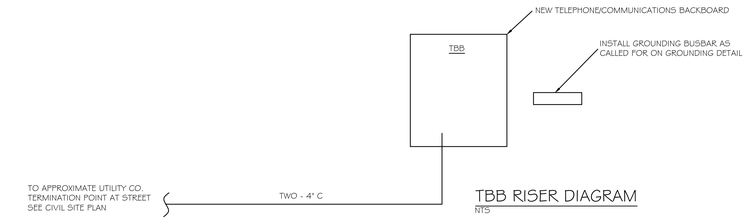
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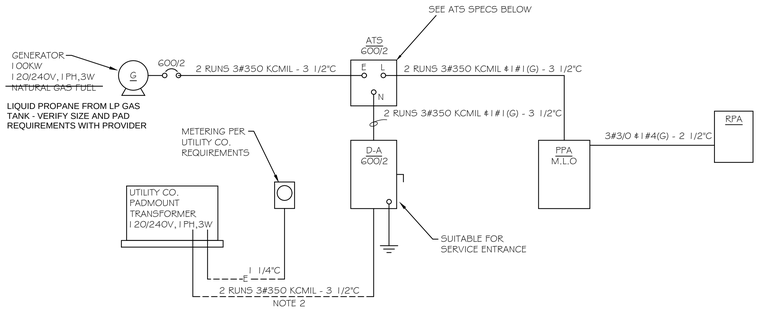
GROUNDING SYSTEM DETAIL
SCALE: NONE

GROUNDING SYSTEM DETAIL – KEY NOTES

1. 2/0 BARE GROUNDING ELECTRODE CONDUCTOR PER 250.66
2. 3/4" X 10' COPPER CLAD STEEL GROUND ROD, DRIVEN 24" BELOW GRADE MIN.
3. #6 BARE GROUNDING ELECTRODE CONDUCTOR IN PVC-40.
4. EXOTHERMIC WELD CONNECTOR: TWO CABLES TO GROUND ROD, CADWELD CABLE TO CABLE TEE, CADWELD ONE CABLE TO GROUND ROD
5. EXOTHERMIC WELD CABLE TO REBAR, CADWELD.
6. LISTED CONNECTION PER NEC 250 WITHIN 5FT OF BUILDING
7. 2/0 CAST BRONZE UL LISTED GROUND CLAMP
8. BONDING JUMPER TO GROUNDING BUSHING AND BONDING JUMPERS FROM CONDUIT TO CONDUIT. ALL CONDUIT CONNECTED TO THE SERVICE ENTRANCE ENCLOSURE SHALL BE BONDED AND SIZED PER NEC 250
9. EXOTHERMIC WELD CABLE TO FLAT STEEL
10. MAIN BONDING JUMPER SIZED BY MANUFACTURER PER NEC 250
11. #4 BONDING JUMPER IN 2" PVC-40
12. CHATSWORTH BICSI AND ANSI GROUNDING BUSBAR 13622-010



TBB RISER DIAGRAM
NTS



ELECTRICAL SINGLE LINE DIAGRAM
NTS

NOTES:
1. COORDINATE SERVICE ENTRANCE WITH UTILITY CO. REVIEW CIVIL FOR TRANSFORMER LOCATION.
2. THIS WIRE VALUE IS HERE AS A PLACEHOLDER. REVIEW SERVICE WITH UTILITY CO. AND PROVIDE SERVICE PER THEIR INSTRUCTIONS.

AUTOMATIC TRANSFER SWITCH SPECIFICATIONS

UNIT SHALL BE:
GENERAC
TXG11 SERIES TRANSFER SWITCH
600A 100% CURRENT RATED
SINGLE PHASE 2 POLE (NOT SWITCHING NEUTRAL)
UL LISTED NEMA 3R ENCLOSURE
ETL LISTED UL 1008
HIGH WITHSTANDING AND CLOSING RATINGS
3-CYCLE FOR EASY BREAKER COORDINATION
LISTED TO COMPLY WITH ALL NEEDED CODES AND STANDARDS
NFPAP, ETL AND NEC

EQUIPMENT CALCULATIONS

MARK	DESCRIPTION	VA	BREAKER AMPS	POLES	DISCONNECT	WIRE	VOLTS	REMARKS
FC-1	FAN COIL UNIT	10000	60	2	NEMA1 60/2	2#6&1#10(G)-3/4"C	240	
HP-1	OUTDOOR SECTION HEAT PUMP	6144	50	2	NEMA3R 60/2	2#6&1#10(G)-3/4"C	240	
FC-2	FAN COIL UNIT	10000	60	2	NEMA1 60/2	2#6&1#10(G)-3/4"C	240	
HP-2	OUTDOOR SECTION HEAT PUMP	6144	50	2	NEMA3R 60/2	2#6&1#10(G)-3/4"C	240	
ERU-1	ENERGY RECOVERY UNIT	1728	20	2	FURNISHED	2#12&1#12(G)-3/4"C	240	
DUCTLESS SPLITS								
HP-3	OUTDOOR SECTION HEAT PUMP	1392	20	2	NEMA-3R 30/2	2#12&1#12(G)-3/4"C	240	
SERVE INDOOR UNIT FC-3 FROM THE OUTDOOR UNIT. INSTALL CABLING PER MANUFACTURER AND NEC								
HP-4	OUTDOOR SECTION HEAT PUMP	2112	20	2	NEMA-3R 30/2	2#12&1#12(G)-3/4"C	240	
SERVE INDOOR UNIT FC-4 FROM THE OUTDOOR UNIT. INSTALL CABLING PER MANUFACTURER AND NEC								
HP-5	OUTDOOR SECTION HEAT PUMP	1152	20	2	NEMA-3R 30/2	2#12&1#12(G)-3/4"C	240	
SERVE INDOOR UNIT FC-5 FROM THE OUTDOOR UNIT. INSTALL CABLING PER MANUFACTURER AND NEC								
EXHAUST FANS								
EF-1	EXHAUST FAN	17	20	1	FURNISHED	2#12&1#12(G)-3/4"C	120	
EF-2	EXHAUST FAN	18	20	1	FURNISHED	2#12&1#12(G)-3/4"C	120	
EF-3	EXHAUST FAN	18	20	1	FURNISHED	2#12&1#12(G)-3/4"C	120	
WEF-1	EXHAUST FAN	1656	25	1	FURNISHED	2#12&1#12(G)-3/4"C	120	
NOTE: SEE MECHANICAL SCHEDULE FOR CONTROL TYPE AND PROVIDE IF APPLICABLE								
VEHICLE EXHAUST UNIT								
FF-1-FF-6	EXHAUST FILTER UNIT	200	20	1	SEE MANUFACT	2#12&1#12(G)-3/4"C	120	
GAS FIRED UNIT HEATERS								
GIH-1	GAS UNIT HEATER	200	20	1	MOTOR SWITCH	2#12&1#12(G)-3/4"C	120	
GIH-2	GAS UNIT HEATER	200	20	1	MOTOR SWITCH	2#12&1#12(G)-3/4"C	120	
AIR COMP	AIR COMPRESSOR/OWNER PROVIDED	6720	60	2	NEMA1 60/2	2#6&1#10(G)-1"C	240	
P-16	GAS FIRED WATER HEATER	500	20	1	MOTOR SWITCH	2#12&1#12(G)-3/4"C	120	
PROVIDE 120V POWER NEEDED FOR RECIRC PUMP								

PANEL RPA — MINIMUM INTERRUPTING RATING 28000 AMPS
NQOD — SURFACE MOUNT
120/240V, 1PH, 3W — 200 AMPS MAIN LUGS ONLY
WITH INTEGRAL TVSS

CKT NO	DESCRIPTION	BREAKERS POLE	AMP	VA	VA	BREAKERS AMP	POLE	DESCRIPTION	CKT NO
1	LTS	1	20	1400	1000	20	1	FITNESS EQMT	2
3	LTS	1	20	1350	1000	20	1	FITNESS EQMT	4
5	LTS	1	20	1450	1000	20	1	FITNESS EQMT	6
7	EXT LTS	1	20	200	1000	20	1	FITNESS EQMT	8
9	BAY LTS	1	20	1370	1000	20	1	REC	10
11	REC	1	20	1000	1000	20	1	REC	12
13	REC	1	20	1000	400	20	1	REC	14
15	REC	1	20	1000	400	20	1	REC	16
17	W MACH (GFCI)	1	20	750	1000	20	1	ICE	18
19	DRYER (GFCI)	2	30	3000	600	20	1	REC	20
21	*				400	20	1	KIT REC	22
23	REC	1	20	1000	500	20	1	REF	24
25	REC	1	20	1000	500	20	1	REF	26
27	SPACE				500	20	1	REF	28
29	P-19	1	20	600	400	20	1	KIT REC	30
31	FF-1-4 GIH-1,2	1	20	800	800	20	1	REC	32
33	BAY DRS,LTS	1	20	1000	1000	20	1	REC	34
35	BAY DRS,LTS	1	20	1000	500	20	1	RANGE/HOOD	36
37	SPACE							SPACE	38
39	SPACE							SPACE	40
41	EWC	1	20	750				SPACE	42
43	SPACE							SPACE	44
45	SPACE							SPACE	46
47	SPACE							SPACE	48
49	SPACE							SPACE	50
51	SPACE							SPACE	52
53	SPACE							SPACE	54
55	SPACE							SPACE	56
57	SPACE							SPACE	58
59	SPACE							SPACE	60
61	SPACE							SPACE	62
63	SPACE							SPACE	64
65	SPACE							SPACE	66
67	SPACE							SPACE	68
69	SPACE							SPACE	70
71	SPACE							SPACE	72
73	SPACE							SPACE	74
75	SPACE							SPACE	76
77	SPACE							SPACE	78
79	SPACE							SPACE	80
81	SPACE							SPACE	82
83	SPACE							SPACE	84
	TOTAL			31670 VA					

PANEL PPA — MINIMUM INTERRUPTING RATING 28000 AMPS
ILINE — WALL MOUNTED
120/240V,1PH,3W — 600 AMPS BOLT LOC
WITH INTEGRAL TVSS

CKT NO	DESCRIPTION	BREAKERS POLE	AMP	VA	REMARKS
1	EXTRACTOR	2	20	3000	
2	HP-1	2	50	6144	
3	HP-2	2	50	6144	
4	HP-3	2	20	1392	
5	HP-4	2	20	2112	
6	HP-5	2	20	1152	
7	FC-1	2	60	10000	
8	FC-2	2	60	10000	
9	PANEL RPA	2	200	31670	SUB FEED BREAKER
10	AIR COMP	2	60	6720	
11	ERU-1	2	20	1728	
12	SPACE				SEE GEAR SUBMITTAL
13	SPACE				SEE GEAR SUBMITTAL
14	SPACE				SEE GEAR SUBMITTAL
	TOTAL			80.062 kVA	

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