A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama
Gadsden Bid Request 3628

Craig Ford, Mayor

SCHEDULE OF DRAWINGS:

TITLE SHEET

CIVIL

C1.0 of 06 EXISTING CONDITIONS, DEMOLITION, BMP PLANS & GEOMETRIC CONTROLS SHEET
C2.0 of 06 GRADING SHEET
C3.0 of 06 LAYOUT SHEET
C4.0 of 06 DETAILS SHEET
C5.0 of 06 DETAILS SHEET
C6.0 of 06 BMP NOTES & DETAILS SHEET

ARCHITECTURAL

A2.0 of 23 LIFE SAFETY PLAN
A2.1 of 23 FIRST FLOOR PLAN
A2.2 of 23 SECOND FLOOR PLAN
A2.3 of 23 REFLECTED CEILING PLAN
A3.0 of 23 DOOR and WINDOW ELEVATIONS and SCHEDULES
A3.1 of 23 DOOR AND WINDOW DETAILS–SHEET ONE
A3.2 of 23 DOOR AND WINDOW DETAILS–SHEET TWO
A4.0 of 23 ELEVATIONS
A5.0 of 23 ROOF PLAN SECTIONS & DETAILS
A5.1 of 23 SECTIONS & DETAILS–SHEET ONE
A5.2 of 23 SECTIONS & DETAILS–SHEET TWO
A5.3 of 23 RADIUSED CANOPIES, SECTION and DETAILS
A6.0 of 23 CROSS SECTIONS–SHEET ONE
A6.1 of 23 CROSS SECTIONS–SHEET TWO
A6.2 of 23 CROSS SECTIONS–SHEET THREE
A6.3 of 23 CROSS SECTIONS–SHEET FOUR
A6.4 of 23 CROSS SECTIONS–SHEET FIVE
A7.0 of 23 WALL SECTIONS–SHEET ONE
A7.1 of 23 WALL SECTIONS–SHEET TWO
A8.0 of 23 LARGE SCALE PARTIAL PLANS & SCHEDULES
A8.1 of 23 INTERIOR ELEVATIONS
A8.2 of 23 STAIR PLANS and SECTIONS
A8.3 of 23 ADDITIVE ALTERNATE BI–FOLDING BAY DOORS

STRUCTURAL

S1.0 of 10 GENERAL NOTES
S1.1 of 10 GENERAL NOTES
S1.2 of 10 TYPICAL DETAILS
S1.3 of 10 TYPICAL DETAILS
S1.4 of 10 TYPICAL DETAILS
S2.1 of 10 FOUNDATION & FLOOR PLAN
S2.2 of 10 MEZZANINE FRAMING PLAN
S2.3 of 10 ROOF FRAMING PLAN
S7.0 of 10 SECTIONS
S7.1 of 10 SECTIONS

PLUMBING

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FP1.0 of 06 FIRE PROTECTION FLOOR PLANS
P0.1 of 06 PLUMBING–SCHEDULES, DETAILS AND NOTES
P1.0 of 06 NON–PRESSURE PIPING FLOOR PLANS
P2.0 of 06 PRESSURE PIPING FLOOR PLANS
P3.0 of 06 PLUMBING ENLARGED PLANS

MECHANICAL

M0.1 of 6 MECHANICAL LEGEND, SCHEDULES & NOTES
M0.2 of 6 MECHANICAL DETAILS AND CONTROLS
M0.3 of 6 MECHANICAL DETAILS
M0.4 of 6 MECHANICAL DETAILS
M1.0 of 6 MECHANICAL FLOOR PLANS
M1.1 of 6 MECHANICAL PIPING FLOOR PLANS

ELECTRICAL

E0.1 of 10 ELECTRICAL LEGEND
E0.2 of 10 ELECTRICAL SINGLE LINE DIAGRAM
E0.3 of 10 FIXTURE SCHEDULE AND DETAILS
E0.4 of 10 ELECTRICAL DETAILS
E2.1 of 10 FIRST FLOOR PLAN–LIGHTING & POWER
E2.2 of 10 FIRST FLOOR PLAN–M/P EQUIPMENT CONNECTIONS & AUXILIARY
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E3.2 of 10 SECOND FLOOR PLAN–M/P CONNECTIONS AND AUXILIARY
E3.3 of 10 ENLARGED PLANS 1–ELECTRICAL
E4.0 of 10 SITE PLAN–ELECTRICAL

GENERAL NOTES (APPLICABLE TO ALL DWG'S)

1. This Contractor shall verify these Drawings with existing field dimensions & conditions that affect new work under this Contract. Do not scale Drawings. If dimensions are in question, obtain clarification from Architect prior to proceeding with the work. All dimensions relative to existing construction/conditions shall be considered approximate only(+/–). Minor discrepancies shall not relieve the Contractor from completing the work in accordance with the intent set forth. Upon discovery of existing conditions appreciably different from those shown or indicated, notify the Architect or Engineer immediately for further instructions.
2. Restore existing site improvements (shown to remain) where damaged by construction work, where new items are installed in or on a surface, and where existing items are removed.
3. Verify exact location of existing utility lines prior to commencing work.
4. See CIVIL, MECHANICAL & ELECTRICAL drawings for routing and/or connection of new or existing items relative to each trade.
5. Traffic: Conduct construction operations to ensure minimum interference with drives, walks, roads and adjacent occupied homes and other facilities.
6. Ensure safe passage of persons around area of construction. Conduct operations to prevent injury to persons, adjacent property and other improvements.
7. See Notes and Specifications for disposal of all rubbish and debris.

ARCHITECT:

ARCHITECT

THOMAS M. McELRATH, ARCHITECT

THOMAS M. McELRATH, ARCHITECT

717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490–8244
EMAIL: tom@tmm–architect.com

CONSULTANTS:

CIVIL

CITY of GADSDEN

HEATH WILLIAMSON, P.E.

90 BROAD STREET
GADSDEN, AL 35901
PHONE: (256) 549–4520
EMAIL: heathwilliamson@cityofgadsden.com

STRUCTURAL

MBA ENGINEERS, INC.

KEITH OWENS, P.E.

300 20th NORTH, SUITE 100
BIRMINGHAM, AL 35203
PHONE: (205) 323–6385
FAX: (205) 324–0698

PLUMBING & MECHANICAL

EDMONDS ENGINEERING, INC.

WADE STEWART, P.E.
SCOTT CARLISLE, P.E.

158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
PHONE: (205) 988–2069
FAX: (205) 988–2065

ELECTRICAL

THE EE GROUP, INC.,

JAY MORGAN, P.E.

1521 RAINBOW DRIVE
GADSDEN, AL 35901
PHONE: (256) 413–7717
FAX: (256) 413–7789

STATE OF ALABAMA
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

TITLE SHEET

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	TITLE SHEET.dwg
JOB NO.	23–03
REVISIONS	

SET
NUMBER

ARCH Full Bleed D (36.00 X 24.00 Inches)

MANHOLE
TOP EL=531.14
INV EL=525.56

REQ'D: COORDINATE REMOVAL AND/OR RELOCATION WITH UTILITY

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

REQ'D: REMOVE, RETAIN AND RESET IN-PLACE SIGN POST AND ROADWAY SIGNAGE, AS DIRECTED BY THE ENGINEER

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

IN-PLACE EDGE OF PAVEMENT (RETAIN)

IN-PLACE EDGE OF PAVEMENT

TBM
N=1263775.7030
E=600353.7180
524.82

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

REQ'D: CONSTRUCTION ENTRANCE SEE DETAIL, SHEET C5

IN-PLACE EDGE OF PAVEMENT

S-INLET
IN-PLACE (RETAIN)
TOP EL=525.20
THROAT EL=524.18
INV EL=521.25

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

RILEY STREET

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

REQ'D: REMOVE IN-PLACE BROKEN ASPHALT AND GRAVEL

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

REQ'D: REMOVE IN-PLACE ASPHALT

TBM
N=1263920.5440
E=600439.6180
527.10

REQ'D: REMOVE IN-PLACE ASPHALT

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

IN-PLACE ASPHALT (RETAIN)

IN-PLACE GRASS (REMOVE)

IN-PLACE GAS PIT (RETAIN)

IN-PLACE GAS VENT VALVE (RETAIN)

STORMWATER JUNCTION BOX UN-RECOVERED. [RECOVER AND RETAIN, SEE GRADING AND LAYOUT SHEETS]

MANHOLE
TOP EL=524.92
INV EL=516.03

IN-PLACE BRICK COLUMN AND LIGHT (RETAIN)

REQ'D: REMOVE IN-PLACE STORM SEWER PIPE

REQ'D: (REMOVE) GRATE INLET IN-PLACE TOP EL=524.65 INV EL=522.20

REQ'D: REMOVE IN-PLACE STORM SEWER PIPE

REQ'D: REMOVE IN-PLACE CONCRETE FLUME

REQ'D: COORDINATE REMOVAL AND/OR RELOCATION WITH UTILITY

GRATE INLET
IN-PLACE (RETAIN)
TOP EL=524.49
INV EL=521.34

REQ'D: REMOVE, RETAIN AND RESET IN-PLACE SIGN POST AND ROADWAY SIGNAGE, AS DIRECTED BY THE ENGINEER

REQ'D: (REMOVE) GRATE INLET IN-PLACE TOP EL=524.34

15IN RCP
INV = 521.6

REQ'D: REMOVE IN-PLACE CONCRETE DRIVE

MANHOLE
TOP EL=524.79
INV EL=514.18

11X18 IN ARCH RCP

REQ'D: REMOVE IN-PLACE WATER SERVICE AND CAP, COORDINATE WITH UTILITY

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

REQ'D: REMOVE IN-PLACE CONCRETE DRIVE

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND REMAINING SLAB

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

4'X4' CONCRETE JUNCTION BOX 30IN RCP IN AND OUT (RETAIN)
TOP = 523.78
INV = 519.97

IN-PLACE EDGE OF PAVEMENT

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

IN-PLACE EDGE OF PAVEMENT

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

REQ'D: SILT FENCE SEE DETAIL, SHEET C5

REQ'D: SAWCUT AT PROPERTY LINE AND REMOVE IN-PLACE CONCRETE FLUME

IN-PLACE CONCRETE (RETAIN)

REQ'D: REMOVE IN-PLACE METAL SIGN AND CONCRETE FOOTING

TBM
N=1263888.4590
E=600596.1200
525.57

GRATE INLET
IN-PLACE (RETAIN)
TOP EL=525.90
INV EL=523.524.09

GRATE INLET
IN-PLACE (RETAIN)
TOP EL=525.86
INV EL=524.05

REQ'D: SAWCUT AND REMOVE IN-PLACE ASPHALT

30 IN RCP

(EX)EL=525.70

(EX)EL=525.86

IN-PLACE VALLEY GUTTER (RETAIN)

REQ'D: SAWCUT

IN-PLACE EDGE OF PAVEMENT

REQ'D: REMOVE IN-PLACE CONCRETE CURB AND GUTTER

RAINBOW DRIVE (US-431/SR-25)

LEGEND

- CONCRETE
- ASPHALT
- GRASS
- IRON PIN
- CAPPED IRON PIN
- POWER POLE
- LIGHT POLE
- GUY WIRE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- TREE
- P — POWER
- ST — STORM SEWER
- SS — SANITARY SEWER
- FM — SANITARY SEWER FORCE MAIN
- W — WATER
- 0 — SILT FENCE
- EXISTING CONTOUR
- 100 EXISTING CONTOUR ELEVATION
- N.I.C. NOT-IN-CONTRACT
- REQ'D: ASPHALT PARKING (REMOVE)
- REQ'D: CONCRETE (REMOVE)
- REQ'D: CONSTRUCTION ENTRANCE
- REQ'D: ROADWAY ASPHALT (REMOVE)
- REQ'D: BROKEN ASPHALT AND GRAVEL (REMOVE)

Know what's below. Call before you dig.

NOTE:
THE INTENT OF THIS PLAN IS TO PREVENT EROSION AND RESULTING SILT TRANSPORTATION OFF SITE. THE ITEMS INDICATED ARE ENGINEERS BEST ESTIMATE OF REQUIREMENTS; MORE OR LESS MAY BE NEEDED DEPENDING ON THE SITE CONDITION, SEASONS, ETC. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY AS THE PROJECT DEVELOPS AND SITE CONDITIONS CHANGE. ALL EROSION AND SEDIMENT CONTROL STRUCTURES, SYSTEMS, DEVICES, ETC. SHALL MEET OR EXCEED THE GUIDELINES, SCENARIOS, AND PRACTICES OUTLINED IN "THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS" LATEST EDITION. A COPY OF THE DOCUMENT MAY BE OBTAINED FORM THE FOLLOWING WEBSITE; HTTPS://ALCONSERVATIONDISTRICTS.GOV/RESOURCES/EROSION-AND-SEDIMENT-CONTROL/

CITY OF GADSDEN
Engineering Department
90 Broad Street - Gadsden, AL 35901
Phone: 256-549-4500 - www.cityofgadsden.com

0 10 20
SCALE 1"=10'

STATE OF ALABAMA
REGISTERED ARCHITECT
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

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RAINBOW DRIVE
for the
City of Gadsden, Alabama

EXISTING CONDITIONS, DEMOLITION, BMP PLAN AND GEOMETRIC CONTROLS SHEET

DRAWN	DKM
CHECKED	HW
SCALE	AS NOTED
DATE	FEBRUARY 6, 2026
FILE	
JOB NO.	23-01
REVISIONS	

ALABAMA LICENSED PROFESSIONAL ENGINEER
NO. 27035-E
STEVEN HEATH WILLIAMSON
2/6/2026

SHEET C1 OF 06 NUMBER

Save Date: 2/6/2026 1:16 PM Plot Date: Friday, February 6, 2026 1:17:35 PM
Y:\Civil3D\2022\29_FS#8 Riley\FS#8_Riley_ALA POWER ADJUSTMENT.dwg Civil 3D, 2026

Know what's **below.**
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NOTE:
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Engineering Department
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Phone: 256-549-4500 - www.cityofgadsden.com

0 10 20
SCALE 1"=10'

ALABAMA LICENSED NO. 27035-E PROFESSIONAL ENGINEER
STEVEN HEATH WILLIAMSON
2/6/2026

STATE OF ALABAMA
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

GRADING SHEET

DRAWN	DKM
CHECKED	HW
SCALE	AS NOTED
DATE	FEBRUARY 6, 2026
FILE	
JOB NO.	23-01
REVISIONS	

SHEET C2 OF 06 NUMBER

ARCH Full Bleed D (36.00 X 24.00 Inches)

NOTE:
1. CONTRACTOR SHALL COORDINATE WITH THE GADSDEN WATER WORKS AND SEWER BOARD TO ESTABLISH THE WATER, SEWER, AND FIRE SERVICE.
2. CONTRACTOR SHALL COORDINATE WITH SPIRE TO ESTABLISH GAS SERVICE.
3. CONTRACTOR SHALL COORDINATE WITH APCO TO ESTABLISH POWER SERVICE.
4. CITY SHALL PAY ALL FEES.
5. CONTRACTOR SHALL FURNISH AND INSTALL AND ADD TO CONSTRUCTION COST ANY ITEMS REQUIRED TO ESTABLISH EACH SERVICE, THAT ARE NOT PROVIDED BY THE UTILITY.

MANHOLE
TOP EL=531.14
INV EL=525.56

REQ'D: TIE 16.75 LF 30" NEW CURB AND GUTTER TO EXISTING CURB AT DEMO LIMITS

REQ'D: NEW 4" SCH 40 PVC @ 1.0 % SLOPE MIN.

REQ'D: SSMH
TOP EL = 527.50
INV EL = 523.25

TBM
N=1263920.5440
E=600439.6180
527.10

REQ'D: 6,414 SQ FT SOD

REQ'D: 18.12 LF 18"NEW CURB AND GUTTER TO EXISTING CURB

REQ'D: OIL WATER SEPARATOR REFER TO PLUMBING PLANS

REQ'D: TAPER LAST 5' OF CURB DOWN

REQ'D: ASPHALT PATCH, MATCH EXISTING (10 SQ YD TOTAL)

REQ'D: 65.59 LF NEW VALLEY GUTTER (4' WIDTH)

REQ'D: BOLLARD (SEE ARCHITECTURAL PLANS)

REQ'D: 241 SQ YD CONCRETE DRIVE

REQ'D: 69 LF TYPE "N" CURB ISLAND, WITH SLOPE PAVING. NO GUTTER, (SEE DETAIL SHEET C4).

REQ'D: 66 SQ FT CONCRETE SIDEWALK

FFE=527.5

REQ'D: BOLLARD (SEE ARCHITECTURAL PLANS)

REQ'D: 652 SQ YD CONCRETE DRIVE

TBM
N=1263775.7030
E=600353.7180
524.82

RILEY STREET

REQ'D: VAN ACCESSIBLE ADA PARKING, SIGNS AND POSTS (SEE DETAILS, SHEET C5)

REQ'D: PARKING STRIPE. (SEE DETAIL AND NOTES SHEET C5)

REQ'D: 72 SQ YD CONCRETE DRIVE

REQ'D: 1,206 SQ FT CONCRETE SIDEWALK

REQ'D: ADA PARKING, SIGNS AND POSTS (SEE DETAILS, SHEET C5)

REQ'D: 169 SQ FT CONCRETE SIDEWALK

REQ'D: PARKING STRIPE. (SEE DETAIL AND NOTES SHEET C5)

S-INLET
IN-PLACE (RETAIN)
TOP EL=525.20
THROAT EL=524.18
INV EL=521.25

REQ'D: 64 SQ FT CONCRETE SIDEWALK (HVAC CONCRETE PAD)

REQ'D: 103.50 18" LF NEW CURB AND GUTTER

REQ'D: 15" HDPE 6.25 L.F. @ 1.0% MAX.

REQ'D: 155 SQ FT CONCRETE SIDEWALK

REQ'D: 277 SQ YD ASPHALT PARKING LOT

REQ'D: YARD INLET BOX AND GRATE
TOP EL=525.00
INV EL=521.31

REQ'D: PARKING BUMPERS

REQ'D: GAS METER LOCATION (COORDINATE WITH PLUMBING PLANS)

REQ'D: 37.19 LF 30" NEW CURB AND GUTTER TO EXISTING CURB AT DEMO LIMITS

REQ'D: 248 SQ YD ASPHALT PARKING LOT

REQ'D: ASPHALT PATCH, MATCH EXISTING (13 SQ YD TOTAL)

REQ'D: TRAFFIC CONTROL MARKING. (SEE DETAIL AND NOTES SHEET C5)

REQ'D: NEW 2" WATER VAULT

REQ'D: NEW 6" WATER VAULT

REQ'D: TRAFFIC CONTROL MARKING. (SEE DETAIL AND NOTES SHEET C5)

IN-PLACE EDGE OF PAVEMENT (RETAIN)

IN-PLACE GAS PIT (RETAIN)

IN-PLACE GAS VENT VALVE (RETAIN)

IN-PLACE BRICK COLUMN AND LIGHT (RETAIN)

REQ'D: TAPER LAST 5' OF CURB DOWN

REQ'D: NEW 2" REHAU MUNICIPEX OR APPROVED EQUAL. FROM MAIN TO BUILDING. COORDINATE TIE-IN LOCATION WITH MECHANICAL AND PLUMBING PLANS.

REQ'D: "DOGHOUSE" CAST-IN-PLACE YARD INLET BOX AND GRATE
TOP EL=524.50
INV EL=522.50

REQ'D: JUNCTION BOX NOT RECOVERED, LOCATE AND ADD MANHOLE ACCESS ON GRADE

REQ'D: 390 SQ FT CONCRETE SIDEWALK

REQ'D: ADD MANHOLE ACCESS (FRAME AND LID AT PROPOSED GRADE)

REQ'D: TAPER LAST 5' OF CURB DOWN

REQ'D: TAPER LAST 5' OF CURB DOWN

MANHOLE
TOP EL=524.92
INV EL=516.03

REQ'D: NEW 6" C900 PVC WATER MAIN (COORDINATE TIE-IN LOCATION WITH FIRE PROTECTION PLAN)

MANHOLE
TOP EL=524.79
INV EL=514.18'

TBM
N=1263888.4590
E=600596.1200
525.57

GRATE INLET
IN-PLACE (RETAIN)
TOP EL=525.86
INV EL=524.05

GRATE INLET
IN-PLACE (RETAIN)
TOP EL=524.49
INV EL=521.34

REQ'D: 4,879 SQ FT SOD

REQ'D: 33.28 LF NEW 30" COMBINATION CURB AND GUTTER (IN R.O.W. USE ALDOT 623-XY TYPE "C" CURB AND GUTTER)

REQ'D: CONCRETE DRIVE

REQ'D: YARD INLET BOX AND GRATE
TOP EL=525.00
INV EL=522.00

REQ'D: 15" HDPE 56.50 L.F. @ 1.0% MAX.

REQ'D: 38.03 LF 30" NEW COMBINATION CURB AND GUTTER IN RADIUS (IN R.O.W. USE ALDOT 623-XY TYPE "C" CURB AND GUTTER)

REQ'D: IN-PLACE JUNCTION BOX, ADD HEAVY DUTY ACCESS FRAME AND COVER AT PROPOSED GRADE
TOP EL=526.50

REQ'D: 127.42 LF 30" NEW COMBINATION CURB AND GUTTER AT DEMO LIMITS (IN R.O.W. USE ALDOT 623-XY TYPE "C" CURB AND GUTTER)

REQ'D: 74.54 LF NEW VALLEY GUTTER (4' WIDTH)

REQ'D: 25.56 LF NEW 30" COMBINATION CURB AND GUTTER (IN R.O.W. USE ALDOT 623-XY TYPE "C" CURB AND GUTTER)

IN-PLACE VALLEY GUTTER (RETAIN)

REQ'D: 21.08 LF NEW 30" COMBINATION CURB AND GUTTER (IN R.O.W. USE ALDOT 623-XY TYPE "C" CURB AND GUTTER)

RAINBOW DRIVE (US-431/SR-25)

LEGEND

- CONCRETE
- ASPHALT
- GRASS
- IRON PIN
- CAPPED IRON PIN
- POWER POLE
- LIGHT POLE
- GUY WIRE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- TREE
- —P— POWER
- —ST— STORM SEWER
- —SS— SANITARY SEWER
- —FM— SANITARY SEWER FORCE MAIN
- —W— WATER
- —0— SILT FENCE
- EXISTING CONTOUR
- 100 EXISTING CONTOUR ELEVATION
- PROPOSED CONTOUR
- 100 EXISTING CONTOUR ELEVATION

- REQ'D: ASPHALT PARKING
- REQ'D: CONCRETE
- REQ'D: ROADWAY ASPHALT PATCH
- REQ'D: SODDING
- IN-PLACE ASPHALT (RETAIN)

811
Know what's below.
Call before you dig.

CITY OF GADSDEN
Engineering Department
90 Broad Street - Gadsden, AL 35901
Phone: 256-549-4500 - www.cityofgadsden.com

0 10 20
SCALE 1"=10'

ALABAMA LICENSED NO. 27035-E PROFESSIONAL ENGINEER STEVEN HEATH WILLIAMSON
2/6/2026

STATE OF ALABAMA
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
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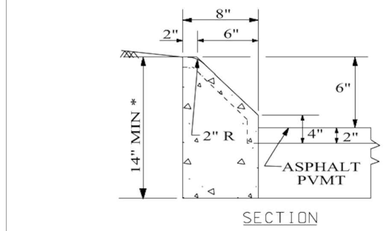
LAYOUT SHEET

DRAWN	DKM
CHECKED	HW
SCALE	AS NOTED
DATE	FEBRUARY 6, 2026
FILE	
JOB NO.	23-01
REVISIONS	

SHEET C3 OF 06 NUMBER

Save Date: 2/6/2026 1:16 PM Plot Date: Friday, February 6, 2026 1:17:42 PM

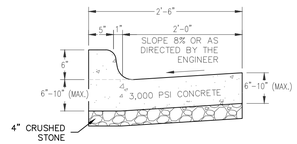
ARCH Full Bleed D (36.00 X 24.00 Inches)



TYPE "N" SLOPING TYPE

NOT TO SCALE

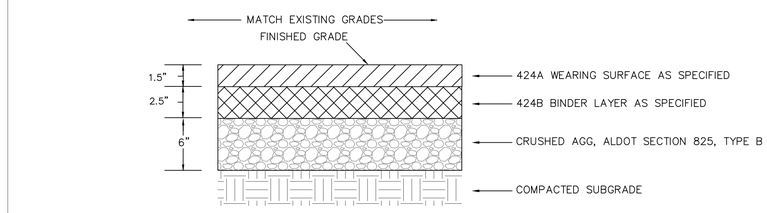
ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	Bureau Std Engr: D.J.W. DRAWN BY: DATE DRAWN: 3-31-1993 REVISED DATE: 9-26-2013	DESIGN BUREAU SPECIAL DRAWING: DETAILS OF CONCRETE CURBS AND CONCRETE CURB & GUTTER COMBINATIONS, SLOPING AND VERTICAL TYPES	--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL DRAWING NO: 623-XY	INDEX NO: 62307



TYPE-C 30 " COMBINATION CURB & GUTTER DETAIL

NOT TO SCALE

"USE ON R.O.W. (ALDOT 623-XY)"

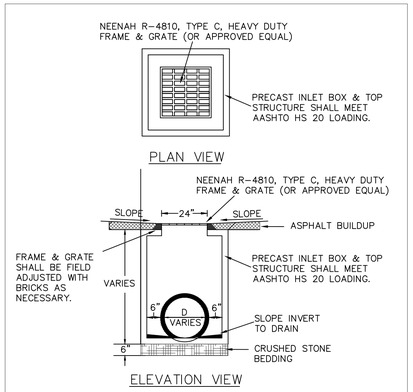


NOTES:

1. ENGINEER MAY ADJUST GRADES OR LAYER THICKNESS IN THE FIELD AS NECESSARY. NO UNIT PRICE ADJUSTMENTS WILL BE ALLOWED, REGARDLESS OF CHANGE.

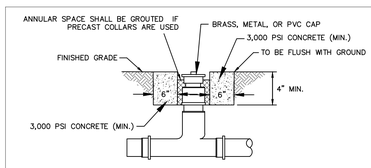
ASPHALT BUILDUP FOR PARKING LOT

NOT TO SCALE



GRATE INLET DETAIL

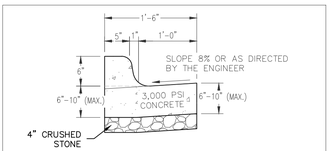
NOT TO SCALE



CLEANOUT IN NON-PAVED AREAS

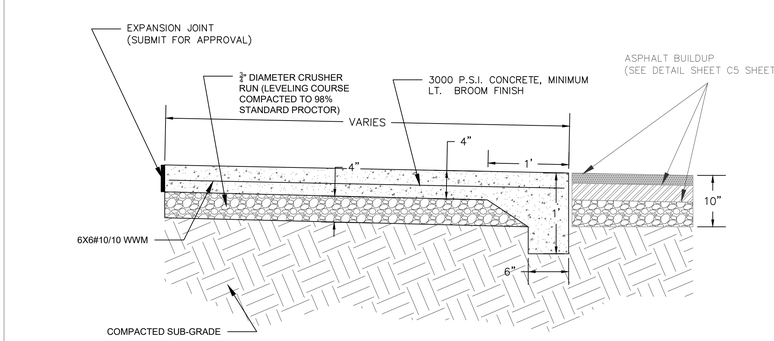
TYPICAL CLEANOUT

NOT TO SCALE



TYPE-C 18" COMBINATION CURB & GUTTER DETAIL

NOT TO SCALE



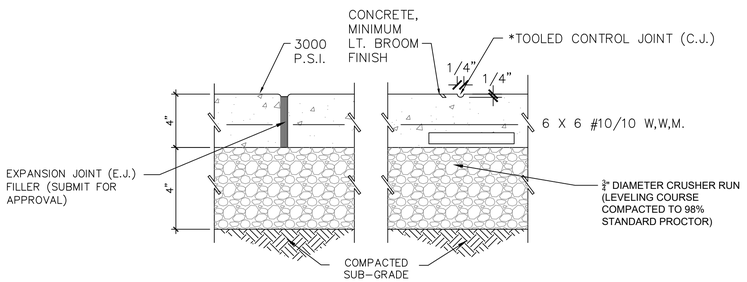
CONCRETE SIDEWALK WITH TURNDOWN

SCALE: NTS

4' WIDE VALLEY GUTTER (VG) DETAIL

NOT TO SCALE

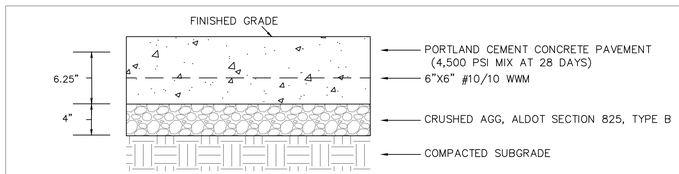
"USE ON R.O.W."



TYPICAL DETAILS CONCRETE WALKS

NOT TO SCALE

*PROVIDE TOOLED CONTROL JOINTS (C.J.) @ MAX. SPACING OF 6'-0" O.C. AND WHERE INDICATED. PROVIDE 1/2" EXPANSION JOINTS (E.J.) AT FIXED OBJECTS SUCH AS WALLS, CURBS, ETC., AT INTERSECTIONS OF WALKS OR OTHER PAVING, AND NOT MORE THAN 42'-0" O.C.; AND OTHER LOCATIONS WHERE INDICATED



CONCRETE DRIVEWAY DETAIL

NOT TO SCALE

NOTE:
SAW-CUT AND INSTALL REQUIRED JOINTS/EXPANSION MATERIAL IN ACCORDANCE WITH ALDOT STANDARD DRAWINGS AND SPECIFICATIONS WITHIN STATE RIGHT-OF-WAY. AREAS OUTSIDE OF STATE RIGHT-OF-WAY SHALL BE AS DIRECTED BY THE ENGINEER.

STATE OF ALABAMA
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

DETAILS SHEET

DRAWN	DKM
CHECKED	HW
SCALE	AS NOTED
DATE	FEBRUARY 6, 2026
FILE	
JOB NO.	23-01
REVISIONS	

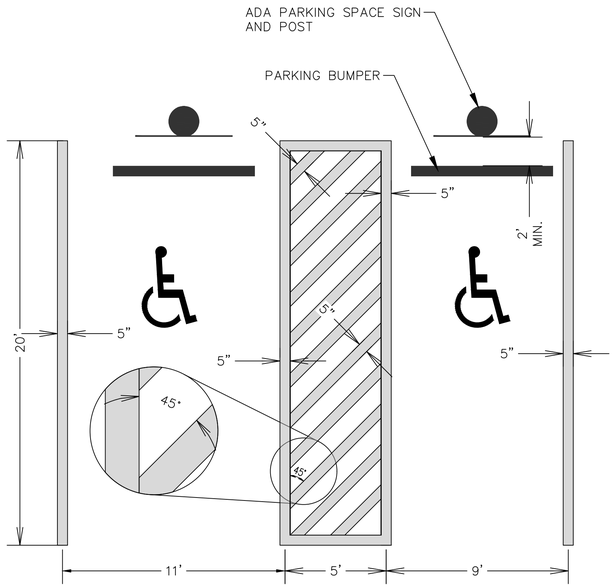
CITY OF GADSDEN
Engineering Department
90 Broad Street - Gadsden, AL 35901
Phone: 256-549-4500 - www.cityofgadsden.com

ALABAMA LICENSED NO. 27035-E PROFESSIONAL ENGINEER STEVEN HEATH WILLIAMSON
2/6/2026

SHEET C4 OF 06 NUMBER

Y:\Civil3D\2022\29_FS#8 Riley\FS#8_Riley_ALA POWER ADJUSTMENT.dwg Civil 3D, 2026

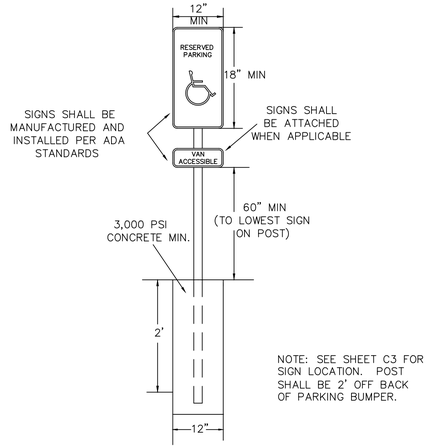
Save Date: 2/6/2026 1:16 PM Plot Date: Friday, February 6, 2026 1:17:53 PM ARCH Full Bleed D (36.00 X 24.00 Inches)



ADA PARKING/STRIPING AND SIGNAGE LOCATION

NOT TO SCALE

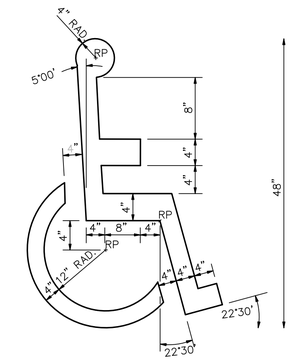
NOTE: ALL ADA PARKING SPACE AND STRIPING, MARKINGS AND LEGENDS SHALL BE ALDOT CLASS 1, TYPE A, COLOR BLUE



NOTE: SEE SHEET C3 FOR SIGN LOCATION. POST SHALL BE 2' OFF BACK OF PARKING BUMPER.

ADA PARKING SPACE SIGN DETAIL

NOT TO SCALE



NOTES:
- RP = RADIUS POINT

PAINTED ACCESSIBLE SYMBOL

NOT TO SCALE

NOTE:

1. ALL TRAFFIC CONTROL LEGENDS AND PAVEMENT MARKINGS SHOWN ON THE PLANS SHALL RECEIVE A DOUBLE APPLICATION OF ALDOT CLASS 1, TYPE A PAINT. ALL DESIGNATED HANDICAP SPACES SHALL BE BLUE, ALL OTHER STRIPING, MARKINGS AND LEGENDS SHALL BE WHITE.
2. PAVEMENT SURFACES SHALL BE CLEAN, DRY, AND FREE OF DUST, DEBRIS, OIL, MOISTURE, OR LOOSE MATERIAL PRIOR TO PAINT APPLICATION.
3. THE FIRST COAT OF PAINT SHALL BE APPLIED UNIFORMLY AT THE MANUFACTURER'S RECOMMENDED APPLICATION RATE AND ALLOWED TO DRY/CURE COMPLETELY BEFORE APPLYING THE SECOND COAT.
4. THE SECOND COAT SHALL BE APPLIED DIRECTLY OVER THE FIRST COAT TO ACHIEVE THE REQUIRED COLOR, OPACITY, DURABILITY, AND VISIBILITY.
5. PAINT SHALL CONFORM TO THE APPLICABLE ASTM, MUTCD, AND LOCAL AGENCY STANDARDS FOR TRAFFIC MARKING MATERIALS.
6. APPLICATION SHALL NOT OCCUR DURING RAIN, FOG, EXCESSIVE HUMIDITY, OR WHEN PAVEMENT OR AMBIENT TEMPERATURES ARE OUTSIDE THE MANUFACTURER'S RECOMMENDED LIMITS.
7. FINAL MARKINGS SHALL BE SHARP, WELL-DEFINED, AND FREE OF OVERSPRAY, TRACKING, OR DISCOLORATION.
8. THE CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL AND PROTECT FRESHLY APPLIED MARKINGS UNTIL FULLY CURED.

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DETAILS SHEET

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SHEET C5 OF 06 NUMBER

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BEST MANAGEMENT PRACTICES

I. GENERAL:

THE INTENT OF THIS GENERIC PLAN IS TO PREVENT EROSION AND RESULTING SILT TRANSPORTATION OFF SITE. THE ITEMS INDICATED ARE ENGINEERS BEST ESTIMATE OF REQUIREMENTS; MORE OR LESS MAY BE NEEDED DEPENDING ON THE SITE CONDITION, SEASONS, ETC. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY AS THE PROJECT DEVELOPS AND SITE CONDITIONS CHANGE. ALL EROSION AND SEDIMENT CONTROL STRUCTURES, SYSTEMS, DEVICES, ETC SHALL MEET OR EXCEED THE GUIDELINES, SCENARIOS, AND PRACTICES OUTLINED IN "THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS" LATEST EDITION. A COPY OF THE DOCUMENT MAY BE OBTAINED FORM THE FOLLOWING WEBSITE; HTTPS://ALCONSERVATIONDISTRICTS.GOV/RESOURCES/EROSION-AND-SEDIMENT-CONTROL/

A. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITY TAKING PLACE.
B. PLANNED PHASES OF CONSTRUCTION
   1. DEMOLITION/TREE/STUMP REMOVAL (AS PER PLAN)
   2. STRIPING AND STOCKPILING OF TOPSOIL
   3. GRADING OPERATIONS
   4. STORM DRAINAGE AND UTILITY INSTALLATION
   5. FINISH GRADING, CURB & GUTTERS, PAVEMENT AND LANDSCAPING.
C. SPECIAL REQUIREMENTS FOR SENSITIVE AREAS OF THE SITE.
   1. INTERCEPT OFFSITE DRAINAGE, FILTER THROUGH RIPRAP FILTER BERMS OR TEMPORARY SEDIMENT
   2. TRAPS, AND DISCHARGE THROUGH THE STORM SEWER SYSTEM.
   3. RIP-RAP OUTLET PROTECTION SHALL BE INSTALLED AT ALL DOWNSTREAM OUTFALLS, EXCEPT THOSE IN ALDOT RIGHT-OF-WAYS.

II. IMPLEMENTATION:

PLANNED CONSTRUCTION PHASING AND REQUIRED SPECIFIC SEDIMENT AND EROSION CONTROL MEASURES.

A. PHASE 1

STUMP REMOVAL: THIS PHASE OF CONSTRUCTION INVOLVES THE DIGGING UP AND REMOVAL OF STUMPS FROM THE SITE. THIS PHASE COULD ALSO INVOLVE THE BURNING OF STUMPS AS WELL AS HAULING THEM AWAY. THE FOLLOWING WILL APPLY DURING THIS PHASE.

1. CONSTRUCTION OF A "STONE" CONSTRUCTION ENTRANCE/EXIT SHALL BE DONE TO PREVENT SILT FROM BEINGDEPOSITED ON ROADWAYS.
2. TEMPORARY CULVERTS SHALL BE PLACED IN DITCHES AND WATERWAYS IF NECESSARY TO GAIN ACCESS INTO THE SITE.
3. SILT FENCES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER DURING ANY PHASE OF CONSTRUCTION.
4. ALL TREES AND DEBRIS WILL BE KEPT AWAY FROM DITCHES AND STREAMS SO RUN-OFF ACCUMULATING IN THE DITCHES AND STREAMS WILL NOT CARRY BRANCHES AND LIMBS DOWNSTREAM.
5. SWALES OR TEMPORARY DIVERSION SHALL BE CONSTRUCTED AS NECESSARY AND AS SHOWN TO DIVERT RUN-OFF AWAY FROM THE WORK AREA.
6. SILT TRAPS AND SEDIMENT BASINS SHALL BE INSTALLED WHERE SHOWN ON THE PLANS IN AND ACCORDANCE WITH DETAILS SHOWN TO CATCH RUNOFF AND FILTER IT PRIOR TO DISCHARGE FROM THE SITE.

B. PHASE 2

TOPSOIL STRIPPING AND STOCKPILING: THIS IS THE PHASE AFTER ALL TREE REMOVAL, STUMP AND DEBRIS REMOVAL. TOPSOIL WILL BE STRIPPED AND STOCKPILED ON THE SITE AS SHOWN ON THE PLANS. THE FOLLOWING REQUIREMENTS WILL APPLY DURING THIS PHASE OF CONSTRUCTION.

1. ALL REQUIREMENTS OF PHASE 1 NOTED ABOVE FOR STUMP REMOVAL WILL ALSO APPLY FOR THIS PHASE OF CONSTRUCTION.
2. ADDITIONAL SILT FENCING AROUND STOCKPILE AREA AS NECESSARY TO PREVENT SILT WASH-OFF FROM THE SITE.

C. PHASE 3

GRADING OPERATIONS: THIS PHASE IS THAT TIME WHEN THE EARTH IS BEING MOVED FROM ONE PORTION OF THE SITE TO ANOTHER OR IS BEING HAULED INTO OR HAULED OFF FROM THE SITE. THIS IS A CRITICAL TIME WHEN SEDIMENT AND EROSION CONTROL FACILITIES MUST BE CONSTANTLY CHECKED TO BE SURE THEY ARE EFFECTIVE AND CONSTANTLY CHANGED TO MEET THE CURRENT CONDITIONS. THE FOLLOWING WILL APPLY TO THIS STAGE OF CONSTRUCTION.

1. ALL SEDIMENT CONTROL FACILITIES REQUIRED SHALL BE INSTALLED DURING PHASE 1 AND 2 SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL VEGETATION IS RE-ESTABLISHED TO AN ACCEPTABLE MANNER.
2. WHENEVER A SILT CONTROL FACILITY IS REMOVED BECAUSE OF CHANGING SITE CONDITIONS IT SHALL BE REPLACED WITH ANOTHER MEASURE THAT WILL BE PART OF THE PROGRAM OF SILT AND EROSION CONTROL.
3. CUT SLOPES SHALL BE PROTECTED BY CONSTRUCTING SWALES AT THE TOP OF CUT SLOPES TO INTERCEPT RUNOFF UPGRADE FROM RUNNING DOWN SLOPES UNCONTROLLED. SWALES WILL BE CONSTRUCTED AS NECESSARY WITH RIP-RAP CHECK DAMS OR SILT FENCES CONSTRUCTED IN SWALES AS NECESSARY TO PREVENT EROSION AND SILTATION.
4. FILL SLOPES SHALL BE PROTECTED BY THE CONSTRUCTION OF BERMS AT THE TOP OF ALL FILL SLOPES TO PREVENT UNCONTROLLED RUNOFF DRAINING DOWN FACE OF SLOPES AND CAUSING EROSION AND SILTATION.
5. RUNOFF ACCUMULATING IN BERMS FROM UPGRADING RUNOFF SHALL BE DIRECTED ALONG BERM TO SLOPE DRAINS THAT WILL CARRY RUNOFF DOWN THE SLOPE. SLOPE DRAINS SHALL HAVE INLET SLIT PROTECTION TO STOP SILT AT PIPE INLET.
6. SILT FENCES SHALL BE IN PLACE AT THE TOE OF ALL FILL SLOPES.
7. TERRACES, BERMS, SWALES SHALL BE CONSTRUCTED AT INTERMEDIATE LOCATIONS THROUGHOUT THE SITE AS NECASSARY TO CONTROL EROSION AND SEDIMENT TRANSPORT. THESE DIVERSION FACILITIES SHALL BE SUPPLEMENTED AS NECESSARY WITH SILT FENCES AND RIP-RAP FILTER BERMS TO FILTER ACCUMULATED SEDIMENT FROM RUNOFF PRIOR TO DISCHARGE FROM THE SITE.
8. SEDIMENT BASINS SHALL BE INSTALLED IF NECESSARY.
9. SLOPES (CUT AND FILL) THAT ARE CONSTRUCTED IN THE FINAL CONFIGURATION SHALL BE COVERED WITH 4" OF TOPSOIL AND GRASSED AND MULCHED AS SOON AS GRADING IS COMPLETED SO VEGETATION CAN PROTECT SLOPE.
10. PORTIONS OF THE SITE THAT ARE GRADED TO FINAL GRADE AND ARE NOT TO RECEIVE PAVEMENT OR BUILDINGS SHOULD HAVE 3" OF TOPSOIL SPREAD OVER THE SURFACE AND GRASSED AS SOON AS POSSIBLE IN CONSTRUCTION PROCESS. THIS PHASE OF CONSTRUCTION IS CRITICAL IN THE EROSION AND SILT CONTROL PROCESS.
11. STORM SEWERS NEED TO BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS AND CONCURRENT WITH GRADING OPERATIONS TO ENSURE A SUCCESSFUL PROGRAM. RUNOFF SHALL BE DIRECTED TO STORM SEWER SYSTEM AS SOON AS POSSIBLE.

D. PHASE 4

STORM DRAINAGE AND UTILITY INSTALLATION PLAN: THIS PHASE WILL BE DONE AFTER OR CONCURRENT WITH THE GRADING PHASE. STORM SEWERS SHALL BE INSTALLED AND PUT INTO SERVICE AS EARLY IN THE GRADING PROCESS AS POSSIBLE. THE FOLLOWING WILL APPLY TO THIS PHASE OF CONSTRUCTION:

1. ALL ASPECTS OF THE PREVIOUS PHASES SHALL BE MAINTAINED AS APPLICABLE.
2. STORM SEWERS THAT ARE INSTALLED SHALL BE PUT INTO SERVICE IMMEDIATELY. THE INLETS/FLUMES OF ALL STORM SEWERS SHALL BE PROTECTED WITH SILT TRAPS THAT PREVENT SEDIMENT FROM ENTERING PIPE. THIS PROTECTION CAN BE SILT FENCES AND HAYBALES OR RIP-RAP FILTER BERMS AS APPLICABLE AND AS SHOWN ON THE PLANS.
3. RIP-RAP AS SHOWN ON THE PLANS AND AS REQUIRED ON THE SITE WILL BE INSTALLED AT PIPE OUTLETS TO PREVENT EROSION DUE TO VELOCITIES OF WATER IN THE PIPES. THE RIP-RAP SHALL BE EXTENDED DOWNSTREAM AS NEEDED TO PREVENT EROSION.
4. ADDITIONAL SILT FENCING SHALL BE INSTALLED AS NECESSARY TO PREVENT EROSION AND SILTATION RESULTING FROM STOCKPILED EXCAVATION MATERIAL FROM UTILITY INSTALLATION OPERATION.
5. WATTLES SHALL BE INSTALLED IN ALL NEWLY CONSTRUCTED DITCHES AND SWALES AS NECESSARY TO PREVENT EROSION AND SILTATION FROM WASHING DOWNSTREAM.

E. PHASE 5

FINISH GRADING, CURB AND PAVEMENT INSTALLATION, AND LANDSCAPING: THIS IS THE WRAP-UP STAGE WHEN ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WILL BE PHASED OUT. THE FOLLOWING WILL APPLY TO THIS PHASE:

1. ALL FACILITIES FROM PHASE 1 THROUGH PHASE 4 WILL BE MAINTAINED AS APPROPRIATE AND REMOVED ONLY WHEN NO LONGER NEED OR REPLACED WITH PHASE APPROPRATE BMP.
2. SILT TRAPS AROUND DRAINAGE INLETS/FLUMES WILL BE MAINTAINED, MODIFIED AS NECESSARY AND REMOVED WHEN NEED IS GONE.
3. ALL AREAS NOT RECEIVING PAVEMENT OR BUILDINGS SHALL HAVE 4" OF TOPSOIL SPREAD OVER AREA AND GRASSED PER PLAN, OR HAVE LANDSCAPING, MULCHING AND OR SOD INSTALLED AS APPLICABLE.
4. CONTRACTOR MAY COVER SOME AREAS WITH 2 1/2" THICK GRADED AGGREGATE FOR EROSION CONTROL IN LIEU OF GRASSING. MUST BE APPROVED BY THE ENGINEER
5. TERRACES, BERMS, SWALES SHALL BE CONSTRUCTED AT INTERMEDIATE LOCATIONS THROUGHOUT THE SITE AS NECASSARY TO CONTROL EROSION AND SEDIMENT TRANSPORT. THESE DIVERSION FACILITIES SHALL BE SUPPLEMENTED AS NECESSARY WITH SILT FENCES AND RIP-RAP FILTER BERMS TO FILTER ACCUMULATED SEDIMENT FROM RUNOFF PRIOR TO DISCHARGE FROM THE SITE.
6. SEDIMENT BASINS SHALL BE INSTALLED IF NECESSARY.
7. SLOPES (CUT AND FILL) THAT ARE CONSTRUCTED IN THE FINAL CONFIGURATION SHALL BE COVERED WITH 4" OF TOPSOIL AND GRASSED AND MULCHED AS SOON AS GRADING IS COMPLETED SO VEGETATION CAN PROTECT SLOPE.
8. PORTIONS OF THE SITE THAT ARE GRADED TO FINAL GRADE AND ARE NOT TO RECEIVE PAVEMENT OR BUILDINGS SHOULD HAVE 3" OF TOPSOIL SPREAD OVER THE SURFACE AND GRASSED AS SOON AS POSSIBLE IN CONSTRUCTION PROCESS. THIS PHASE OF CONSTRUCTION IS CRITICAL IN THE EROSION AND SILT CONTROL PROCESS.
9. STORM SEWERS NEED TO BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS AND CONCURRENT WITH GRADING OPERATIONS TO ENSURE A SUCCESSFUL PROGRAM. RUNOFF SHALL BE DIRECTED TO STORM SEWER SYSTEM AS SOON AS POSSIBLE.

III. LANDSCAPING/SEEDING:

REFER TO THIS DRAWING (SEEDING NOTES:) FOR ACTUAL REQUIREMENTS FOR THE INSTALLATION OF LIME, FERTILIZER, SEED AND MULCH. GRASSING OPERATIONS SHALL BE DONE THROUGHOUT CONSTRUCTION PROCESS AT THOSE TIMES WHEN PORTIONS OF THE SITE ARE FINISHED AND READY FOR PERMANENT GROUND COVER. THIS WILL REQUIRE MULTIPLE EFFORTS BY THE GRASSING SUBCONTRACTOR TO STABILIZE ALL IMPACTED AREAS OF THE SITE IN AN ORDERLY FASHION. NO AREA OF THE SITE THAT RECEIVED FINAL GRADE SHALL BE LEFT FOR MORE THAN FOURTEEN (13) DAYS WITHOUT THE APPLICATION OF SEED AND MULCH.

IV. INSPECTION AND MAINTENANCE INSTRUCTIONS:

ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED REGULARLY TO BE SURE THEY ARE EFFECTIVE IN THE EVENT OF RAINFALL. THEY SHALL BE INSPECTED ONCE A WEEK (MINIMUM) AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT. ANY DAMAGED OR NON- FUNCTIONAL FACILITY SHALL BE REPAIRED IMMEDIATELY. THE FOLLOWING WILL APPLY TO MAINTAINING EROSION AND SEDIMENT CONTROL FACILITIES.

A. SEDIMENT BASINS SHALL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT BUILDUP REACHES THE CLEANOUT POINT INDICATED ON THE DETAIL. SEDIMENT SHALL BE DISPOSED IN SUITABLE AREAS AND IN SUCH A MANNER THAT WILL NOT ERODE OR CAUSE SEDIMENTATION PROBLEMS. THE BASIN EMBANKMENT SHALL BE CHECKED REGULARLY TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. EMERGENCY SPILLWAYS SHALL BE CHECKED REGULARLY TO ENSURE THAT THEIR LININGS ARE WELL ESTABLISHED AND EROSION RESISTANT.
B. SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED. SEDIMENT REMOVED FROM THE TRAP SHALL BE DEPOSITED IN SUITABLE AREAS AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
C. WATTLES WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE WATTLE IS CLOGGED OR DAMAGED, IT SHALL BE REMOVED AND CLEANED OR REPLACED.
D. SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
E. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.
F. IF ANY FACILITY IS DAMAGED DURING MAINTENANCE, OR OTHERWISE, THE DAMAGED PORTION SHALL BE REMOVED AND REPLACED ACCORDING TO THE INDICATED DETAIL.
G. IF SILT HAS CLOGGED SEDIMENT CONTROL FACILITY AND IT IS NO LONGER EFFECTIVE IN FILTERING SILT, THE STRUCTURE SHALL BE REMOVED AND REPLACED WITH A NEW STRUCTURE IN ACCORDANCE WITH APPLICABLE DETAIL.
H. CONSTRUCTION ENTRANCE SHALL HAVE ADDITIONAL STONE ADDED AS MUD COVERS STONE. DURING MUDDY TIMES, TIRES SHALL BE WASHED PRIOR TO GOING INTO THE STREET.
I. MAINTAINING EFFECTIVENESS: CONTRACTORS QCI SHALL INSPECT OVERALL PERFORMANCE OF EROSION AND SEDIMENT CONTROL FACILITIES AND AREAS DOWNSTREAM. IF SILT IS APPARENT DOWNSTREAM FROM STRUCTURES, SOME FAILURE HAS OCCURRED. IF SEDIMENT IS OBSERVED DOWNSTREAM, IMMEDIATELY NOTIFY THE ENGINEER. ENGINEER WILL INSPECT THE CONDITION AND AFTER INSPECTION, WILL DIRECT THE REMOVAL OF ACCUMULATED SEDIMENT DOWNSTREAM AND INSTALLATION OF ADDITIONAL STRUCTURAL MEASURES AS NECESSARY. CONTRACTOR SHALL IMPLEMENT RECOMMENDED SOLUTIONS TO PROBLEM AREAS AS RECOMMENDED.

V. COMPLETION

PROJECT CLOSE OUT: THE FOLLOWING SHALL BE DONE AT THE END OF THE PROJECT.

6. INSPECT SITE TO BE SURE THAT GROUND COVER IS COMPLETE AND ADEQUATE. IN OTHER WORDS, ALL AREAS ARE EITHER PAVED OR HAVE GOOD GROUND COVER WITH NO EROSION APPARENT. GENERALLY GOOD GROUND COVERAGE OF VEGETATION IS DEFINED AS 85% VEGETATIVE COVER WITH NO AREAS OF EROSION APPARENT.
7. IF ABOVE INSPECTION IS MADE AND APPROVED, ALL STRUCTURAL FACILITIES SHALL BE REMOVED ALONG WITH ANY ACCUMULATED SILT. THE AREAS DISTURBED BY REMOVAL OF STRUCTURES SHALL BE FINE GRADED, GRASSED AND MULCHED.
8. IF INSPECTION IS MADE AND PROBLEMS EXIST, RESOLVE THE PROBLEM, MAKE THE REPAIR, AND MAKE SUBSEQUENT INSPECTION PRIOR TO REMOVAL.

VI. MISCELLANEOUS ISSUES:

1. NO FUEL OR OIL WILL BE STORED ON SITE.
2. NO OILS OR GAS WILL BE DUMPED ON SITE.
3. LOCATION OF TRAILER AND PORT-A-JOHN WILL BE FIELD DETERMINED TO AVOID CONSTRUCTION ACTIVITIES. LOCATION WILL CHANGE DURING CONSTRUCTION AS APPROPRIATE.
4. DEWATERING OPERATIONS MAY BE REQUIRED ON THIS PROJECT. IF REQUIRED, PUMPED GROUND WATER SHALL BE ROUTED THROUGH SILT CONTROL FACILITY TO FILTER WATER PRIOR TO DISCHARGE.
5. PROJECT SITE SHALL BE KEPT CLEAR OF ALL HUMAN AND CONSTRUCTION DEBRIS. CONTRACTOR SHALL HAVE TRASH COLLECTED WEEKLY AND PLACED IN DUMPSTER TO BE HAULED OFF THE SITE.
6. ALL WATER SUPPLY WILL BE PROVIDED FROM PUBLIC WATER SUPPLY.
7. ALL HUMAN WASTE WILL BE IN PORT-A-JOHN OR PUBLIC SEWER SYSTEM TOILET AND DISPOSED OF BY A LICENSED VENDOR OR IN A PUBLIC SANITARY SEWER SYSTEM
8. ANY SPILLED OIL, GAS, ETC., RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE CONTAINED AND CLEANED IMMEDIATELY AND CONTAMINATED SOILS SHALL BE DISPOSED OF IN AN APPROVED MANNER AT A LICENSED LANDFILL.
9. DUST SUPPRESSION OPERATIONS WILL BE DONE BY MEANS OF A WATER TRUCK SPRAYING WATER ON THE SURFACE OF THE SITE.

VII. SEEDING NOTES:

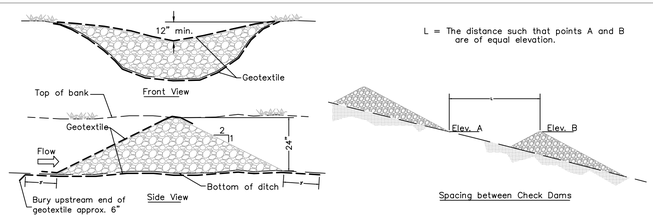
A. PRIOR TO TEMPORARY SEED APPLICATION, TREAT SOIL AS FOLLOWS:
   1. THE CONTRACTOR SHALL BE REQUIRED TO HAVE SOIL TESTED AND FOLLOW RECOMMENDATIONS FOR AMENDING THE SOIL WITH ITEMS SUCH AS LIME, FERTILIZER, ETC. TESTING AND AMENDMENTS SHALL BE A SUBSIDIARY OBLIGATION OF THE APPLICABLE EROSION & SEDIMENTATION CONTROL ITEM.
   2. THOROUGHLY INCORPORATE THE ABOVE AMENDMENTS INTO THE FIRST TWO TO THREE INCHES OF SOIL. AFTER SEEDING, FIRM THE SEEDS INTO THE TOP 1/4" OF SOIL. GRADE AREAS TO BE SEEDED TO INSURE PROPER DRAINAGE WITH EVEN GRADES. MULCH IMMEDIATELY AFTER SEEDING WITH EITHER STRAW, HAY OR WOOD CELLULOSE FIBER. STRAW OR HAY SHALL BE APPLIED AT A RATE OF 100 LBS./1000 SF. HAY OR STRAW SHALL BE STABILIZED WITH AN ADHESIVE. ALL SLOPES WHICH EXCEED 3:1 SHALL BE HYDROSEEDED. WATER AS REQUIRED TO ESTABLISH SEED. ALL AREAS THAT DO NOT SHOW 85% COVER SHALL BE RESEEDED UNTIL PERMANENT GRASS HAS BEEN ESTABLISHED WITH NO BARE AREAS OR WASHOUTS. AFTER GRASS HAS SHOWN GROWTH (APPROXIMATELY 40 DAYS) AND WHILE SOIL SURFACE IS MOIST, THE CONTRACTOR SHALL ADD ANY RECOMMENDED TOP DRESSING FROM SOIL TEST.

B. TEMPORARY SEEDING SHALL BE PERFORMED IF A DISTURBED AREA IS LEFT UNATTENDED FOR (13) OR MORE DAYS. APPLY SEED AS PER ALDOT'S CURRENT EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 665.

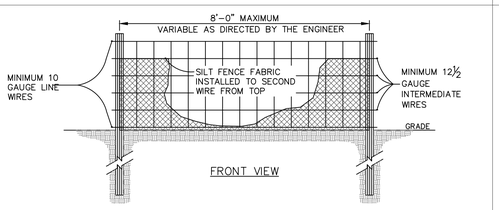
C. PERMANENT SEEDING SHALL BE PERFORMED UPON COMPLETION OF FINAL GRADING AND TOPSOIL PLACEMENT. APPLY SEED AS PER ALDOT'S CURRENT EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 860

NOTE: IF APPLICABLE, SEE LANDSCAPING PLAN FOR AREAS TO BE SODDED AND/ORDISTURBED AREAS SHALL BE HYDRO-SEEDED WITH PERMANENT SEEDING MIX.

D. ALL TEMPORARY/PERMANENT SEEDING SHALL BE MULCHED. USE EROSION CONTROL BLANKETS ON ALL SLOPES 3:1 AND STEEPER.
E. ALL SOD AND PERMANENT SEEDING AREAS SHALL HAVE 3" MIN. TOPSOIL LAYER.
F. ALL TEMPORARY/PERMANENT SEEDING AND MULCHING SHALL BE PERFORMED USING HYDRO-SEEDING AND MECHANICAL MULCH SPREADER METHODS.



ROCK FILTER DAM DETAIL
SCALE: NTS

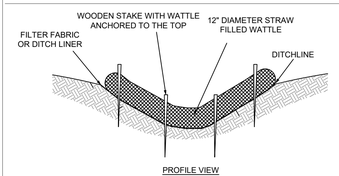


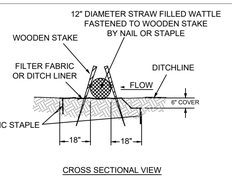
SILT FENCE
SCALE: NTS

NOTE:
DO NOT USE IN AREAS OF CONCENTRATED FLOW.

* PLACE ALONG CONTOUR

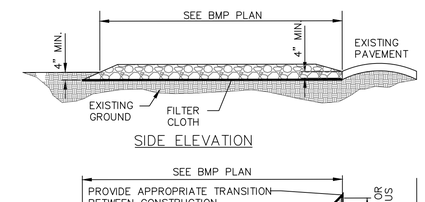
SANDBAG DETAIL DITCH CHECK
NOT TO SCALE





NOTES:
1. WATTLES SHALL BE FILLED WITH STRAW OR OTHER APPROVED MATERIAL.
2. SPACING FOR WATTLES SHALL BE DETERMINED BY THE SITE ENGINEER.
3. WATTLES MAY BE USED FOR PROTECTION OF CATCH BASINS AND DROP INLETS WITH APPROVAL BY THE STORMWATER PROGRAM MANAGER OR DESIGNEE.

WATTLE DITCH CHECK DETAIL
SCALE: NTS



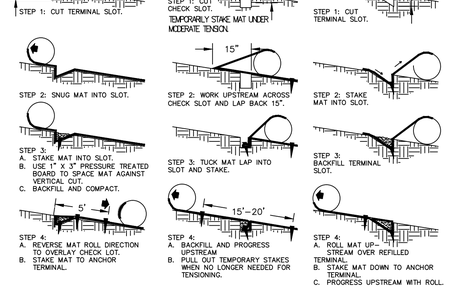
CONSTRUCTION SPECIFICATIONS

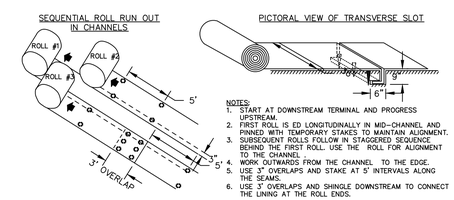
1. STONE - USE COARSE AGGREGATE (2 - 3 INCH STONE).
2. LENGTH - AS EFFECTIVE, BUT NOT MORE THAN 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

CONSTRUCTION ENTRANCE/EXIT
SCALE: NTS

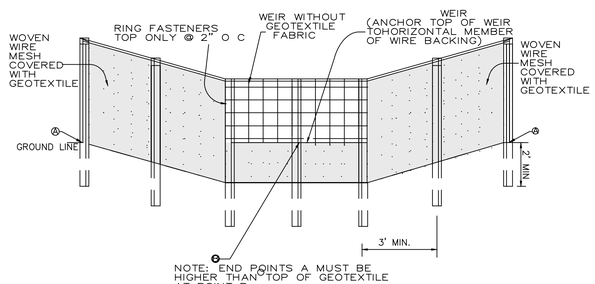
TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

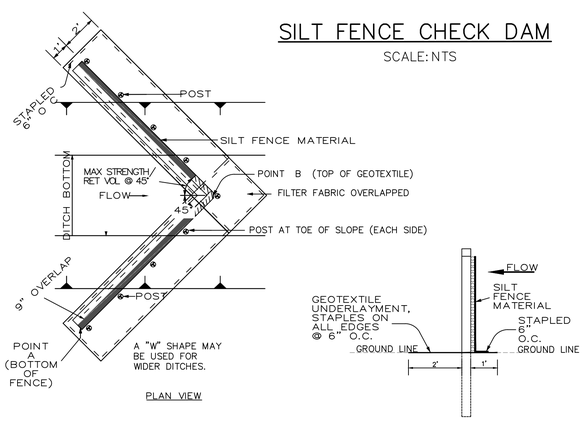




ROLLED EROSION CONTROL PRODUCTS
SCALE: NTS



ELEVATION VIEW



SILT FENCE CHECK DAM
SCALE: NTS

NOTES:
1. SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS MODERATE TO HIGH OR AS DIRECTED BY THE ENGINEER.
2. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
3. IF THE TOP OF THE GEOTEXTILE AT POINT (B) IS HIGHER THAT THE BOTTOM OF THE FENCE AT POINT (A) THEN NO WEIR IS REQUIRED.

811
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Gadsden ALABAMA
Engineering Department
90 Broad Street - Gadsden, AL 35901
Phone: 256-549-4500 - www.cityofgadsden.com

ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 27035-E STEVEN HEATH WILLIAMSON
2/6/2026

STATE OF ALABAMA
THOMAS M. McELRATH 3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

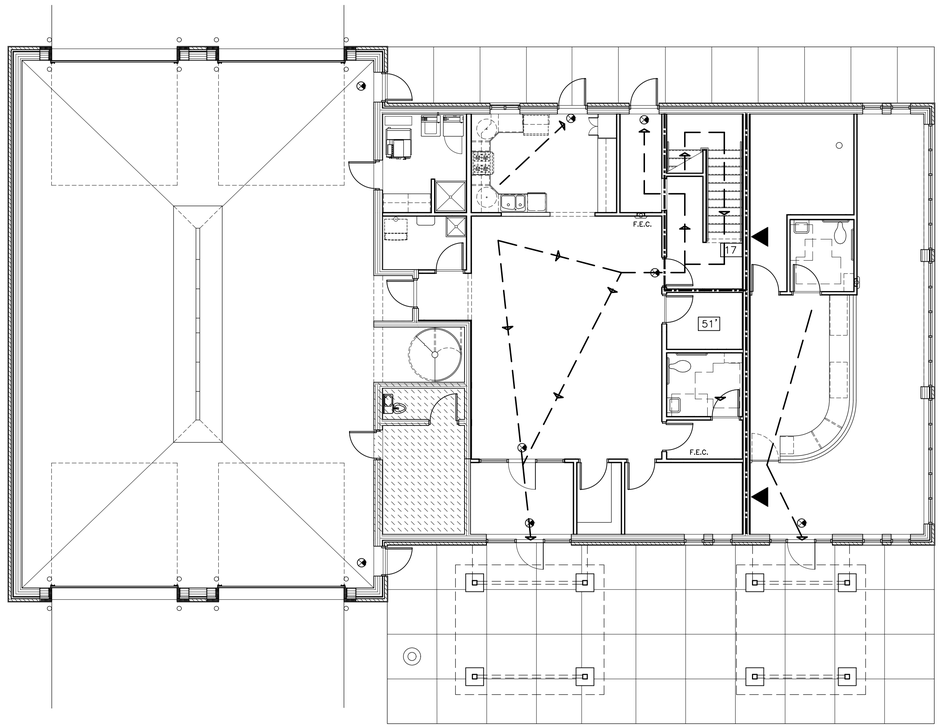
BMP NOTES AND DETAILS SHEET

DRAWN: DKM
CHECKED: HW
SCALE: AS NOTED
DATE: FEBRUARY 6, 2026
FILE:
JOB NO.: 23-01
REVISIONS:

SHEET C6 OF 06 NUMBER

Save Date:2/6/2026 11:43 PM Plot Date:Friday, February 6, 2026 11:56:04 PM

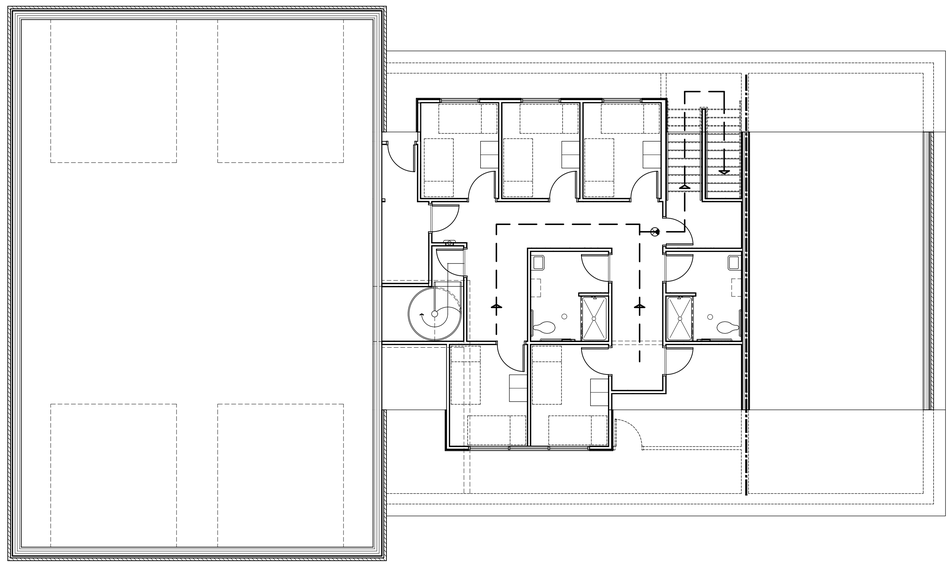
Y:\Civil3D\2022\29_FS#8 Riley\FS#8_Riley_ALA POWER ADJ



LIFE SAFETY FIRST FLOOR PLAN

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

PLAN NORTH



LIFE SAFETY SECOND FLOOR PLAN

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

PLAN NORTH

BUILDING CODE COMPLIANCE STUDY

1. OCCUPANCY CLASSIFICATION:

   ENFORCCED CODE: 2021 IBC

   MIXED OCCUPANCY – SEPARATED USES

2. PHYSICAL PROPERTIES OF THE BUILDING:

   THE DESIGNED FACILITY CONSISTS OF A 2 STORY SLAB ON GRADE, BRICK AND CMU EXTERIOR and METAL STUDS GYP. BD. PARTITIONS INTERIOR AND LIGHT GAUGE METAL TRUSSES.

   THE BUILDING IS SPRINKLED.
   - TOTAL AREA : 7,522 S.F.
   - BUILDING HEIGHT: 2 STORIES

3. TYPE OF CONSTRUCTION:

   TYPE II (B) (SPRINKLED) (IBC)
   1. MAXIMUM BUILDING HEIGHT ALLOWED: 4 STORIES
   2. MAXIMUM BUILDING AREA ALLOWED: 92,000 S.F.

4. OCCUPANT LOAD:

   DINING + DORM AREA: 92 PEOPLE x 0.2 = 18.4" REQUIRED EGRESS WIDTH

   ACTUAL EGRESS WIDTH (TWO (2) DOORS= 72"

   NOTE: ALL EXIT DOORS NEED TO OPEN IN THE DIRECTION OF EXIT TRAVEL IN ACCORDANCE WITH SECTION 1010.1.2.1 (IBC).

5. MEANS OF EGRESS: MAXIMUM TRAVEL DISTANCE REQUIRED: 250' (SPRINKLERED)

6. EXITS REQUIRED:
   BUSINESS + DORM AREA (2) BASED ON SECTION 1006, TABLE 1006.3.1 (IBC).

7. EXIT DOORS MUST BE A DISTANCE APART EQUAL TO NOT LESS THAN ONE–THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS. EXCEPTION NO. 2 (1007.1.1– IBC).

8. EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, CLOSETS OR SPACES USED FOR SIMILAR PURPOSES. (1016.2 (5) IBC).

FIRE PROTECTION and LIFE SAFETY LEGEND

- AREA OF FEMA 361 SAFE ROOM TORNADO SHELTER
- LINE OF 1 HR. FIRE RATED BARRIER
- EXIT SIGN–SEE ELECTRICAL
- F.E.C. FIRE EXTINGUISHER & CABINET
- TYP. ADAAG CLEAR FLOOR SPACE — CLEAR FLOOR SPACE–Required at door, plumbing fixture, cabinet, etc., to meet ADAAG.
- SYMBOL INDICATING: Concrete block partitions to be extended from a point above the highest adjacent ceiling to the roof deck above.

STATE OF ALABAMA
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

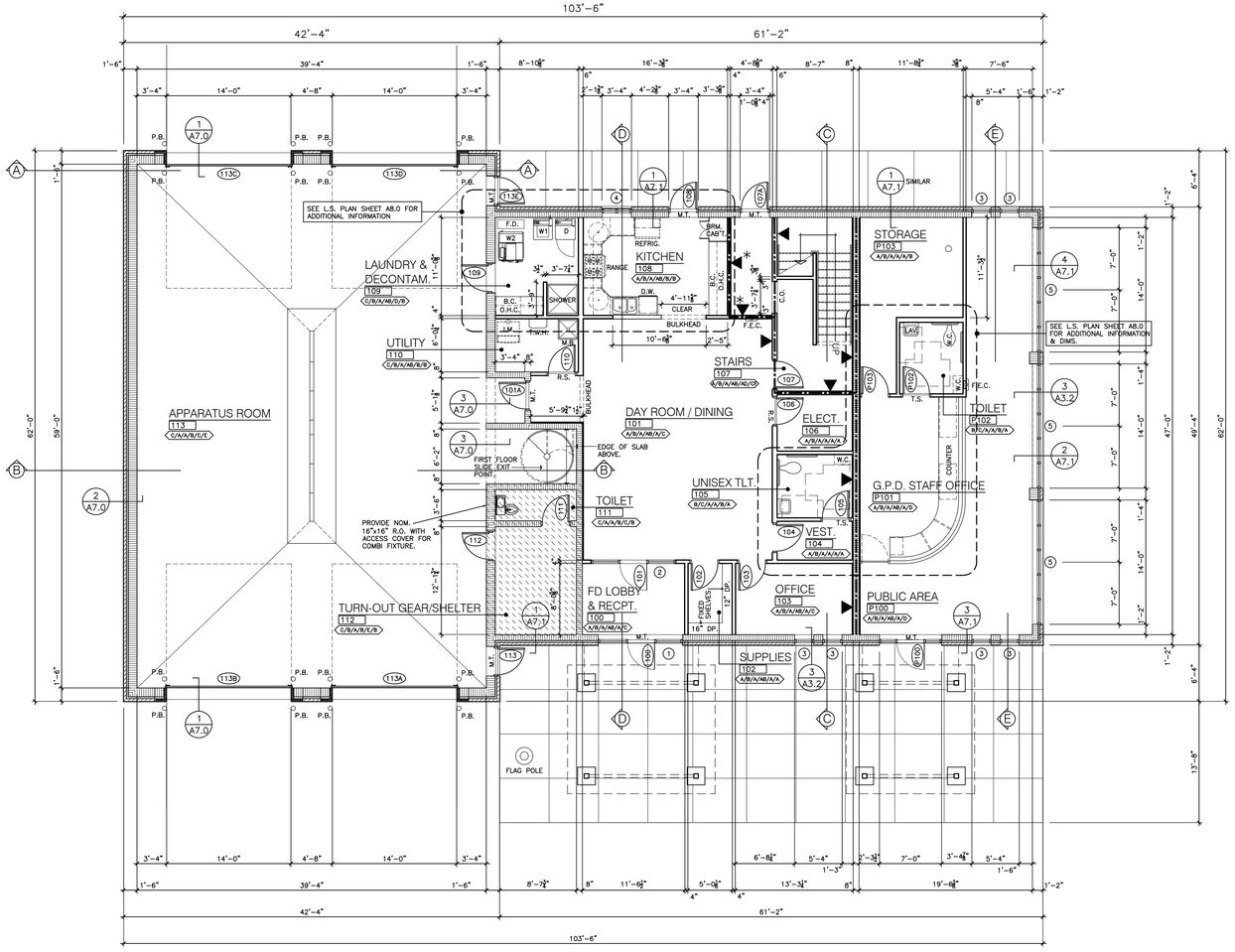
THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

LIFE SAFETY FLOOR PLAN

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A2.0_Life Safety FP.dwg
JOB NO.	23–03
REVISIONS	

SHEET A2.0 OF 23 SHEETS



FIRST FLOOR PLAN

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

PLAN NORTH

FLOOR PLAN LEGEND: (APPLICABLE TO ALL ARCHITECTURAL FLOOR PLANS)

- NEW 1'-6" th. EXTERIOR WALL: Nominal 4" th. face brick, air space, mastic damp proofing and 12" th. concrete block with foamed-in-place masonry wall insulation. See Structural for required reinforcing and other specifications.
- NEW 1'-6" th. EXTERIOR WALL: Nominal 4" th. face brick, air space, 1-1/2" th. rigid insulation board, mastic dampproofing and 12" th. concrete block with full height grout fill. See Structural for required reinforcing and other specifications.
- NEW 1'-2" th. EXTERIOR WALL: Nominal 4" th. face brick, air space, mastic damp proofing and 8" th. concrete block with foamed-in-place masonry wall insulation. See Structural for required reinforcing and other specifications.
- NEW INTERIOR MASONRY WALL: Concrete block in thickness as shown. Build all non load bearing interior block masonry walls to a minimum 4" above highest adjacent ceiling unless detailed or indicated otherwise.
- NEW INTERIOR MASONRY WALL: Concrete block in thickness as shown with foamed-in-place masonry wall insulation. Build all non load bearing interior block masonry walls to a minimum 4" above highest adjacent ceiling unless detailed or indicated otherwise.
- NEW INTERIOR MASONRY WALL: Concrete block in thickness as shown with full height grout fill. See Structural for required reinforcing and other specifications. with sections and Structural for height.
- NEW INTERIOR DRYWALL PARTITION: 3-5/8" th. x 20 gauge metal studs at 24" o.c. with one(1) layer of 5/8" th. gypsum board on each face. Provide full-width/full-height unfaced batt insulation between studs. Extend to 4" above highest adjacent ceiling, unless detailed or noted otherwise.
- NEW INTERIOR DRYWALL PARTITION: 3-5/8" th. x 20 gauge metal studs at 24" o.c. with one(1) layer of 5/8" th. gypsum board on one side only. Provide full-width/full-height unfaced batt insulation between studs. Extend to 4" above highest adjacent ceiling, unless detailed or noted otherwise.
- NEW GYPSUM BOARD & METAL FURRING: 7/8" dp. metal furring channels at 24" o.c. with one(1) layer of 5/8" th. gypsum board on face, over concrete block or cast-in-place concrete. Build to a point 4" (min.) above ceiling unless detailed or noted otherwise.
- SYMBOL INDICATING: Concrete block or metal stud partitions to be extended from a point above the highest adjacent ceiling to the underside of the roof deck above.
- * SYMBOL INDICATING: Metal stud partitions to be extended from a point above the highest adjacent ceiling to the underside of slab above.
- WALL SECTION/DETAIL KEY – The wall section or detail number is located at the top and the number of the sheet it is on is located at the bottom.
- BUILDING CROSS SECTION KEY – The cross section number is located at the top and the number of the sheet it is on is located at the bottom.
- ROOM NUMBER SYMBOL – See "Schedule of Finishes"
- ROOM FINISH SYMBOL – See "Schedule of Finishes"
- DOOR SYMBOL – See "Schedule of Doors and Frames"
- WINDOW SYMBOL – See "Window Schedule"
- ACCESSORY SYMBOL – See "Schedule of Toilet Accessories"
- NOTE SYMBOL – See "Notes" applicable to the specific plan, elevation, section, or detail
- CASEWORK SYMBOL – See "Schedule of Casework"
- EXISTING SPOT GRADE – Elevation as noted
- NEW SPOT GRADE – Elevation as noted
- NEW EXTERIOR CONCRETE WORK – Expansion joints as detailed & dummy joints as shown & detailed. See typical details & Civil Dwgs.
- LINE OF 1 HR. FIRE RATED BARRIER
- AREA OF FEMA 361 TORNADO SHELTER

ABBREVIATIONS: (APPLICABLE TO ALL ARCHITECTURAL FLOOR PLANS WHERE INDICATED)

A.S.U.	ADJUSTABLE SHELF UNIT
B.C.	BASE CABINET
C.E.S.	CARPET EDGE STRIP at floor
℄	CENTERLINE
D.F.	DRINKING FOUNTAIN – See Plumbing
D.S.	DOWNSPOUT & SPLASHBLOCK – See Roofing
D.	DRYER – See Plumbing and/or Electrical
D.W.	DISHWASHER – N.I.C. – See Plumbing and/or Electrical
F.D.	FLOOR DRAIN – See Plumbing
F.E.C.	FIRE EXTINGUISHER & CABINET
F.O.B.	FACE OF BLOCK OR BRICK
F.O.S.	FACE OF STUDS
F.O.W.	FACE OF WALL
F.S.	FEATURE STRIP at floor – 2" wide unless noted otherwise
HCP.	HANDICAP ACCESSIBLE
H.R.	HAND RAILING – See Typical Details
I.M.	ICE MACHINE – N.I.C. – See Plumbing for Rough-in
LAV.	LAVATORY – See Plumbing
L.T.	LAUNDRY TUB – See Plumbing
M.S.	MOP SINK – See Plumbing
M.T.	METAL THRESHOLD
N.I.C	NOT IN CONTRACT
O.C.	ON CENTER
O.H.C.	OVER HEAD CABINET
P.B.	PIPE BOLLARD – See Civil
P.T.	PRESSURE TREATED
REF.	REFRIGERATOR – By Others (N.I.C.)
R.S.	RUBBER REDUCER STRIP at floor
T.O.S.	TOP OF SLAB
T.S.	METAL TRANSITION STRIP AT PORC. TILE EDGE – See Details & Tile Spec.
T.W.H.	TANKLESS WATER HEATER – See Plumbing
V.S.T.R.	VENT STACK THROUGH ROOF – See Plumbing
W1.	WASHING MACHINE – N.I.C. – See Plumbing for Rough-in
W2.	EXTRACTOR WASHING MACHINE – N.I.C. – See Plumbing for Rough-in
W.C.	WATER CLOSET – See Plumbing

INTERIOR FINISH LEGEND

FLOOR (U/N/W/X/Y/Z)		WAINSCOT (U/N/W/X/Y/Z)		CEILING (U/N/W/X/Y/Z)	
A	RESILIENT FLOOR TILE (LVT)	A	NONE	A	NON-RATED LAY-IN SQUARE-EDGE ACOUST. TILE IN 24" x 24" GRID
B	PORCELAIN TILE (THIN-SET)	B	4'-3" HIGH THIN-SET PORCELAIN TILE	B	NON-RATED LAY-IN VINYL-FACED ACOUST. TILE IN 24 x 24" GRID
C	EXPOSED CONCRETE WITH DUST-PROOF HARDENER			C	EXPOSED STRUCTURE UN-PAINTED
				D	GYP. BOARD CEILING ON FURRING OR SUSP. BLACK IRON CHANNEL SYSTEM
				E	EXPOSED STRUCTURE DECK PAINTED WITH SEMI-GLOSS ENAMEL PAINT.
				F	GYP. BOARD CEILING ON BOTTOM CHORD OF TRUSSES.
BASE (U/N/W/X/Y/Z)		**WALLS** (U/N/W/X/Y/Z)		**CEILING HGT.** (U/N/W/X/Y/Z)	
A	NONE	A	GYPSUM BOARD WITH EGGSHELL ENAMEL PAINT	A	8'-0"
B	4" HIGH COVE RUBBER	B	EXPOSED CONCRETE BLOCK WITH SEMI-GLOSS ENAMEL PAINT	B	8'-8"
C	15" HIGH THIN-SET PORCELAIN TILE	C	EXPOSED STRUCTURE UN-PAINTED	C	9'-4"
				D	10'-0"
				E	±20'-0" EXPOSED STRUCTURE
				F	VARIES WITH ROOF SLOPE

DIMENSION NOTE:

ALL DIMENSIONS ARE SHOWN TO FACE OF STUDS, MASONRY, CONCRETE, OR STEEL STRUCTURE; OR TO CENTERLINE OF COLUMNS – UNLESS SHOWN OR NOTED OTHERWISE.

GYPSUM BOARD / MASONRY INTERSECTION:

PROVIDE CASING BEAD & CAULK AT ALL LOCATIONS WHERE GYPSUM BOARD PARTITIONS TERMINATE AGAINST MASONRY.

CONCEALED WOOD BLOCKING at STUD PARTITIONS:

PROVIDE CONCEALED 2x6 WOOD BLOCKING IN STUD PARTITIONS, WHERE REQUIRED TO ADEQUATELY ANCHOR & SUPPORT ALL WALL-MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO GRAB BARS AND OTHER TOILET ACCESSORIES, CASEWORK, MILLWORK, PLUMBING FIXTURES & TRIM, WALL-MOUNTED DOOR STOPS, WALL-MOUNTED TELEVISION BRACKETS, AND HANDRAIL BRACKETS. SEE SPECIFIC DISCIPLINES FOR LOCATIONS.

DOWNSPOUT LOCATION COORDINATION:

COORDINATE ALL DOWNSPOUT LOCATIONS WITH CIVIL, ROOFING AND ELEVATIONS DRAWINGS. FINAL LOCATIONS SHALL BE CONFIRMED BY THE ARCHITECT AND CIVIL CONSULTANTS FOR PROPER FUNCTION AND TIE-IN AND WITH THE ARCHITECT FOR PROPER AESTHETICS.

IDENTIFICATION OF FIRE-RATED WALLS:

ALL FIRE RATED WALLS AND PARTITIONS SHALL BE PERMANENTLY IDENTIFIED ABOVE THE CEILING LINE WITH WORDING AS FOLLOWS:

2 HOUR FIRE BARRIER – PROTECT ALL OPENINGS

OR

1 HOUR FIRE BARRIER – PROTECT ALL OPENINGS

SUCH IDENTIFICATION SHALL CONSIST OF 2" HIGH RED LETTERS PAINTED DIRECTLY ON BOTH SIDES OF THE WALL. USE RED ENAMEL PAINT. SPACING SHALL BE 10'-0" O.C. MAXIMUM.

SEE SPEC. SECTION 09900.

SEE FLOOR PLAN THIS SHEET FOR THE LOCATION OF ALL FIRE-RATED WALLS AND PARTITIONS.

STATE OF ALABAMA
THOMAS M. McELRATH 3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
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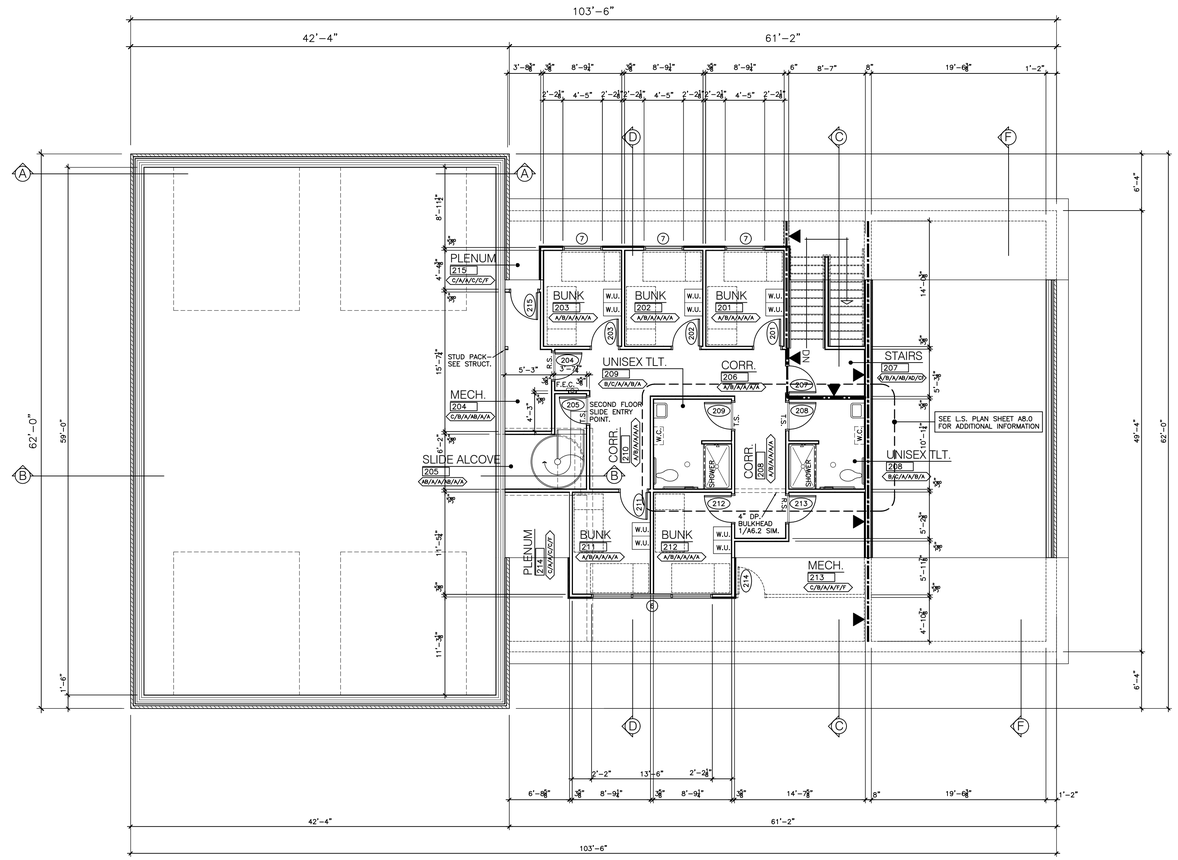
FIRST FLOOR PLAN

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A2.1_Floor Plan.dwg
JOB NO.	23-03
REVISIONS	

SHEET A2.1 OF 23 SHEETS



SECOND FLOOR PLAN

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

PLAN NORTH

INTERIOR FINISH LEGEND

FLOOR U/V/W/X/Y/Z	
A	RESILIENT FLOOR TILE (LVT)
B	PORCELAIN TILE (THIN-SET)
C	EXPOSED CONCRETE WITH DUST-PROOF HARDENER

BASE U/V/W/X/Y/Z	
A	NONE
B	4" HIGH COVE RUBBER
C	15" HIGH THIN-SET PORCELAIN TILE

WAINSCOT U/V/W/X/Y/Z	
A	NONE
B	4'-3" HIGH THIN-SET PORCELAIN TILE

WALLS U/V/W/X/Y/Z	
A	GYPSUM BOARD WITH EGGSHELL ENAMEL PAINT
B	EXPOSED CONCRETE BLOCK WITH SEMI-GLOSS ENAMEL PAINT
C	EXPOSED STRUCTURE UN-PAINTED

CEILING U/V/W/X/Y/Z	
A	NON-RATED LAY-IN SQUARE-EDGE ACOUST. TILE IN 24" x 24" GRID
B	NON-RATED LAY-IN VINYL-FACED ACOUST. TILE IN 24 x 24" GRID
C	EXPOSED STRUCTURE UN-PAINTED
D	GYP. BOARD CEILING ON FURRING OR SUSP. BLACK IRON CHANNEL SYSTEM
E	EXPOSED STRUCTURE DECK PAINTED WITH SEMI-GLOSS ENAMEL PAINT.
F	GYP. BOARD CEILING ON BOTTOM CHORD OF TRUSSES.

CEILING HGT. U/V/W/X/Y/Z	
A	8'-0"
B	8'-8"
C	9'-4"
D	10'-0"
E	±20'-0" EXPOSED STRUCTURE
F	VARIES WITH ROOF SLOPE

STATE OF ALABAMA
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

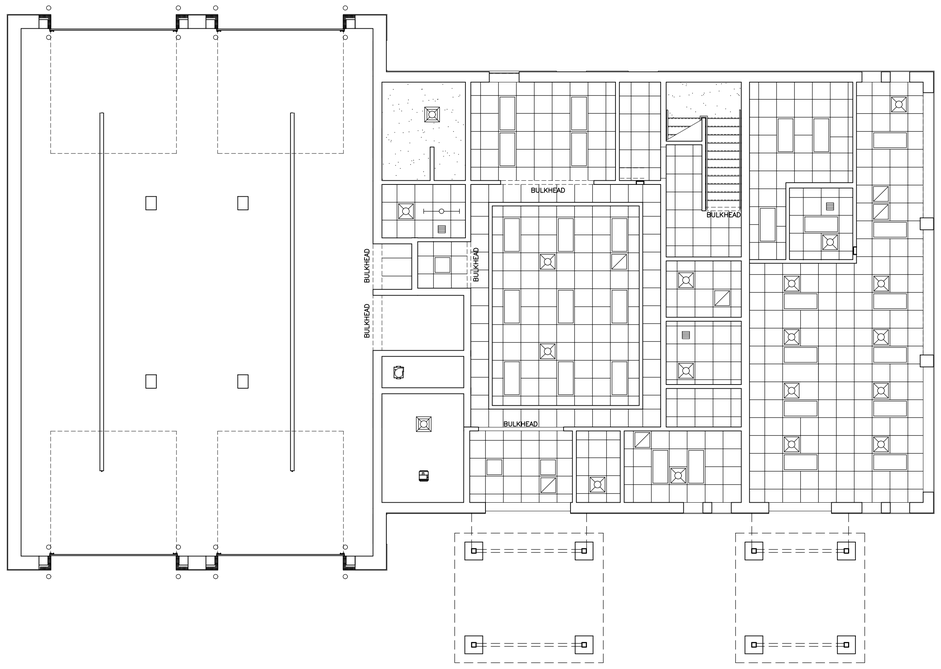
THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

SECOND FLOOR PLAN

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A2.1_Floor Plan.dwg
JOB NO.	23-03
REVISIONS	

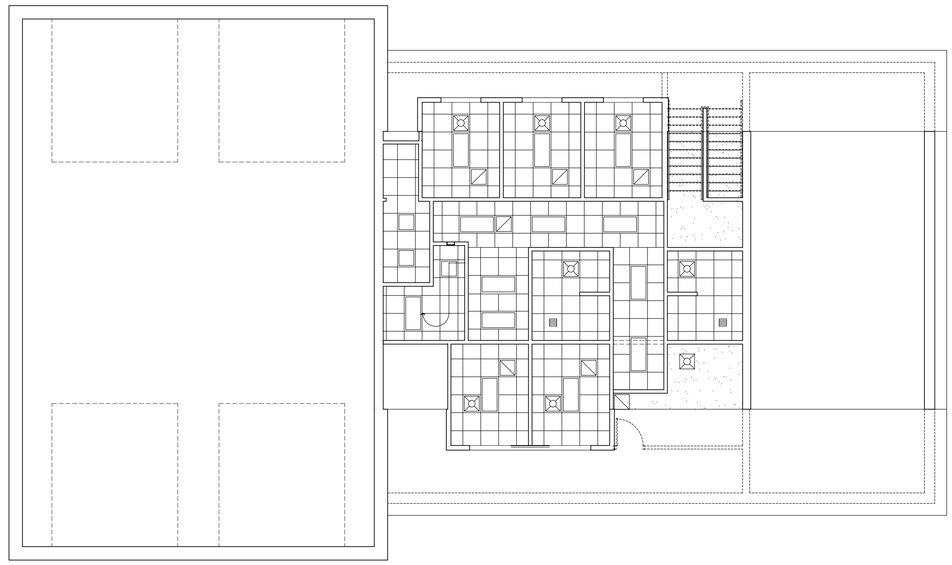
SHEET A2.2 OF 23 SHEETS



FIRST FLOOR REFLECTED CEILING PLAN

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

PLAN NORTH



SECOND FLOOR REFLECTED CEILING PLAN

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

PLAN NORTH

INTERIOR FINISH LEGEND

FLOOR (U/V/W/X/Y/Z)	
A	RESILIENT FLOOR TILE (LVT)
B	PORCELAIN TILE (THIN-SET)
C	EXPOSED CONCRETE WITH DUST-PROOF HARDENER

BASE (U/V/W/X/Y/Z)	
A	NONE
B	4" HIGH COVE RUBBER
C	15" HIGH THIN-SET PORCELAIN TILE

WAINSCOT (U/V/W/X/Y/Z)	
A	NONE
B	4'-3" HIGH THIN-SET PORCELAIN TILE

WALLS (U/V/W/X/Y/Z)	
A	GYPSUM BOARD WITH EGGSHELL ENAMEL PAINT
B	EXPOSED CONCRETE BLOCK WITH SEMI-GLOSS ENAMEL PAINT
C	EXPOSED STRUCTURE UN-PAINTED

CEILING (U/V/W/X/Y/Z)	
A	NON-RATED LAY-IN SQUARE-EDGE ACOUST. TILE IN 24" x 24" GRID
B	NON-RATED LAY-IN VINYL-FACED ACOUST. TILE IN 24 x 24" GRID
C	EXPOSED STRUCTURE UN-PAINTED
D	GYP. BOARD CEILING ON FURRING OR SUSP. BLACK IRON CHANNEL SYSTEM
E	EXPOSED STRUCTURE DECK PAINTED WITH SEMI-GLOSS ENAMEL PAINT.
F	GYP. BOARD CEILING ON BOTTOM CHORD OF TRUSSES.

CEILING HGT. (U/V/W/X/Y/Z)	
A	8'-0"
B	8'-8"
C	9'-4"
D	10'-0"
E	±20'-0" EXPOSED STRUCTURE
F	VARIES WITH ROOF SLOPE

REFLECTED CEILING LEGEND:

- 2'x2' LAY-IN CEILING SYSTEMS: See Finish Schedule and Specifications.
- 2'x2' LAY-IN CEILING SYSTEMS: Cut tiles to fit irregular grid. See Finish Schedule and Specifications.
- 2'x4' LAY-IN LIGHT FIXTURE: See Electrical.
- 1'x4' LAY-IN LIGHT FIXTURE: See Electrical.
- 2'x2' LAY-IN LIGHT FIXTURE: See Electrical.
- 6"x4' SURFACE MOUNTED LIGHT FIXTURE: See Electrical.
- RECESSED CAN LIGHT FIXTURE: See Electrical.
- PENDANT LIGHT FIXTURE: See Electrical.
- CEILING MOUNTED DIFFUSER: See Mechanical.
- CEILING MOUNTED RETURN: See Mechanical.
- CEILING MOUNTED EXHAUST GRILLE: See Mechanical.
- GAS-FIRED INFRARED HEATERS: See Mechanical
- ECH-ELECTRIC CEILING HEATER

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REFLECTED CEILING PLANS

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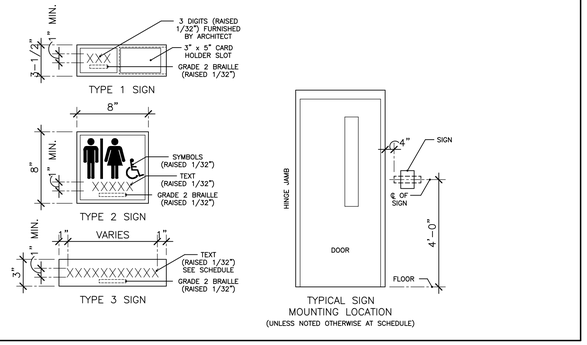
SHEET A2.3 OF 23 SHEETS

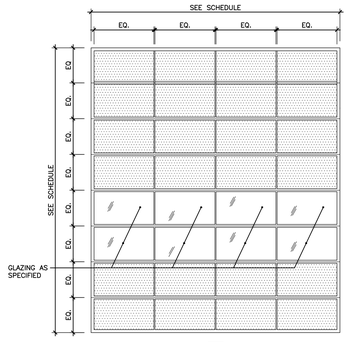
SCHEDULE of DOORS and FRAMES

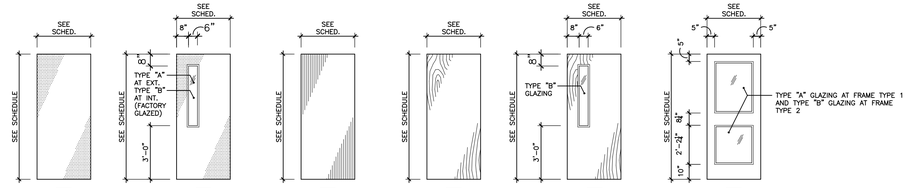
MARK	TYPE	DOORS SIZE WIDTH	HGT.	THICK	MATERIAL	FRAMES TYPE	DETAILS HEAD	JAMB	SILL	MATERIAL	MISC. FIRE RATING	REMARKS
FIRST FLOOR FIRE STATION												
100	G	3'-0"	7'-0"	1 3/4"	ALUM	1	1/A3.2	1/A3.2	1/A3.2	ALUM	NONE	
101	G	3'-0"	7'-0"	1 3/4"	ALUM	2	2/A3.2	2/A3.2	2/A3.2	ALUM	NONE	
101A	C	3'-0"	7'-0"	1 3/4"	FRP FACED ALUM.	8	11/A3.1	12/A3.1	13/A3.1	H'MET.	20 MIN. "C" LABEL	
102	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
103	F	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
104	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
105	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
106	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
107	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	90 MIN. "B" LABEL	
107A	C	3'-0"	7'-0"	1 3/4"	FRP FACED ALUM.	8	7/A3.1	8/A3.1	9/A3.1	H'MET.	NONE	
108	C	3'-0"	7'-0"	1 3/4"	FRP FACED ALUM.	8	7/A3.1	8/A3.1	9/A3.1	H'MET.	NONE	
109	C	3'-0"	7'-0"	1 3/4"	FRP FACED ALUM.	8	10/A3.1	12/A3.1	13/A3.1	H'MET.	20 MIN. "C" LABEL	
110	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
111	D	3'-0"	7'-0"	1 3/4"	H'MET.	10	10/A3.1	12/A3.1	13/A3.1	H'MET.	NONE	
112	D	3'-0"	7'-0"	1 3/4"	H'MET.	9	10/A3.1	12/A3.1	13/A3.1	H'MET.	20 MIN. "C" LABEL	FEMA 361 OPENING—SEE SPEC.
113	C	3'-0"	7'-0"	1 3/4"	FRP FACED ALUM.	8	4/A3.1	5/A3.1	6/A3.1	H'MET.	NONE	
113A	A	14'-0"	16'-0"	–	ALUM	–	1/A3.1	2/A3.1	3/A3.1	STEEL	NONE	
1130B	A	14'-0"	16'-0"	–	ALUM	–	1/A3.1	2/A3.1	3/A3.1	STEEL	NONE	
113C	A	14'-0"	16'-0"	–	ALUM	–	1/A3.1	2/A3.1	3/A3.1	STEEL	NONE	
113D	A	14'-0"	16'-0"	–	ALUM	–	1/A3.1	2/A3.1	3/A3.1	STEEL	NONE	
113E	C	3'-0"	7'-0"	1 3/4"	FRP FACED ALUM.	8	4/A3.1	5/A3.1	6/A3.1	H'MET.	NONE	
FIRST FLOOR POLICE PRECINCT												
P100	G	3'-0"	7'-0"	1 3/4"	ALUM	1	1/A3.2	1/A3.2	1/A3.2	ALUM	NONE	
P102	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
P103	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
SECOND FLOOR FIRE STATION												
201	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
202	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
203	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
204	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
205	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	90 MIN. "B" LABEL	
207	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	90 MIN. "B" LABEL	
208	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
211	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
212	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
213	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
214	E	3'-0"	3'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	
215	E	3'-0"	7'-0"	1 3/4"	WOOD	10	15/A3.1	16/A3.1	17/A3.1	H'MET.	NONE	

SCHEDULE of INTERIOR SIGNAGE

TYPE	DESCRIPTION OR TEXT	SIZE	LOCATION
1	NO. and CARD HOLDER	3 1/2" x Req'd. Length	Adjacent to Door "103"
2	UNISEX TOILET	8" x 8"	Adjacent to Doors "104", 208", 209 and "P102"
3	UTILITY	3 1/2" x Req'd. Length	Adjacent to Door "110"
3	APPARATUS ROOM	3" x Req'd. Length	Adjacent to Door "101A"
3	MECHANICAL	3" x Req'd. Length	Adjacent to Door "204" and "213"
3	SUPPLIES	3" x Req'd. Length	Adjacent to Door "102"
3	STORAGE	3" x Req'd. Length	Adjacent to Door "P103"
3	STAIRS	3" x Req'd. Length	Adjacent to Door "107" and "207"
3	BUNK ONE	3" x Req'd. Length	Adjacent to Door "201"
3	BUNK TWO	3" x Req'd. Length	Adjacent to Door "202"
3	BUNK THREE	3" x Req'd. Length	Adjacent to Door "203"
3	BUNK FOUR	3" x Req'd. Length	Adjacent to Door "211"
3	BUNK FIVE	3" x Req'd. Length	Adjacent to Door "212"
3	APPARATUS SLIDE	3" x Req'd. Length	Adjacent to Door "205"
3	LAUNDRY	3" x Req'd. Length	Adjacent to Door "109"
3	ELECTRICAL	3" x Req'd. Length	Adjacent to Door "106"
3	TURN-OUT/SHELTER	3" x Req'd. Length	Adjacent to Door "112"

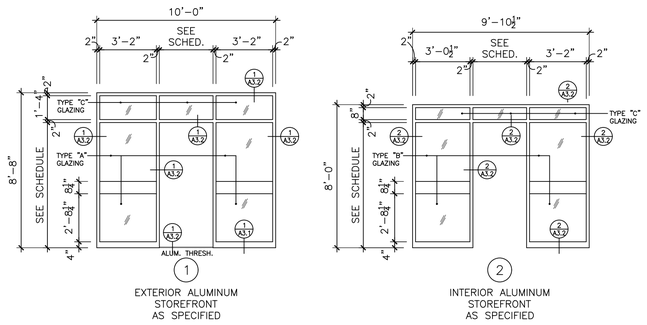


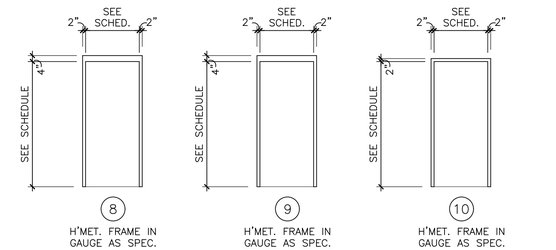




DOOR TYPE ELEVATIONS

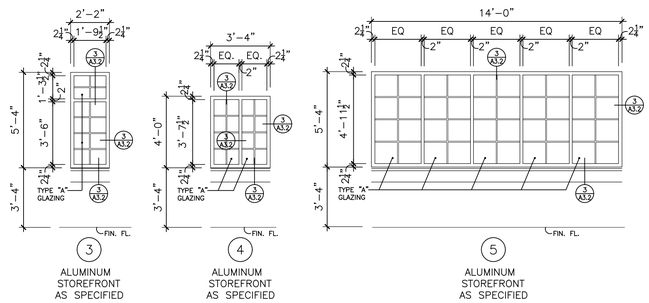
SCALE: 1/4" = 1'-0"





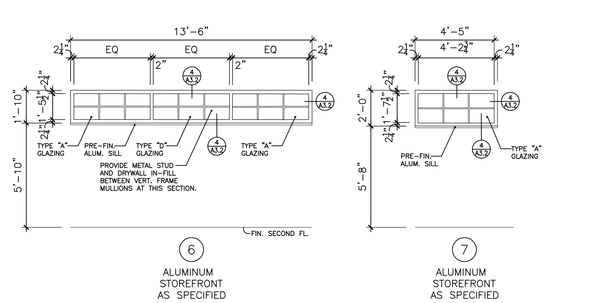
ALUMINUM STOREFRONT DOOR FRAME TYPE ELEVATIONS

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



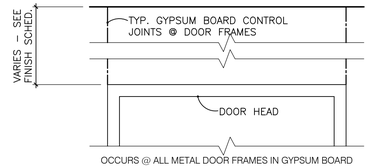
HOLLOW METAL FRAME TYPE ELEVATIONS

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



ALUMINUM STOREFRONT WINDOW TYPE ELEVATIONS

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



SCHEDULE of GLAZING TYPES for DOORS, WINDOWS & SIDELITES

TYPE	DESCRIPTION
A	1" TH. "CLEAR" TEMPERED INSULATING GLASS with "LOW E" COATING AS SPECIFIED.
B	1/4" TH. "CLEAR" TEMPERED SAFETY GLASS AS SPECIFIED.
C	1/4" TH. "CLEAR" ANNEALED GLASS AS SPECIFIED.
D	1" TH. "SPANDREL" GLASS AS SPECIFIED.

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DOOR and WINDOW ELEVATIONS and SCHEDULES

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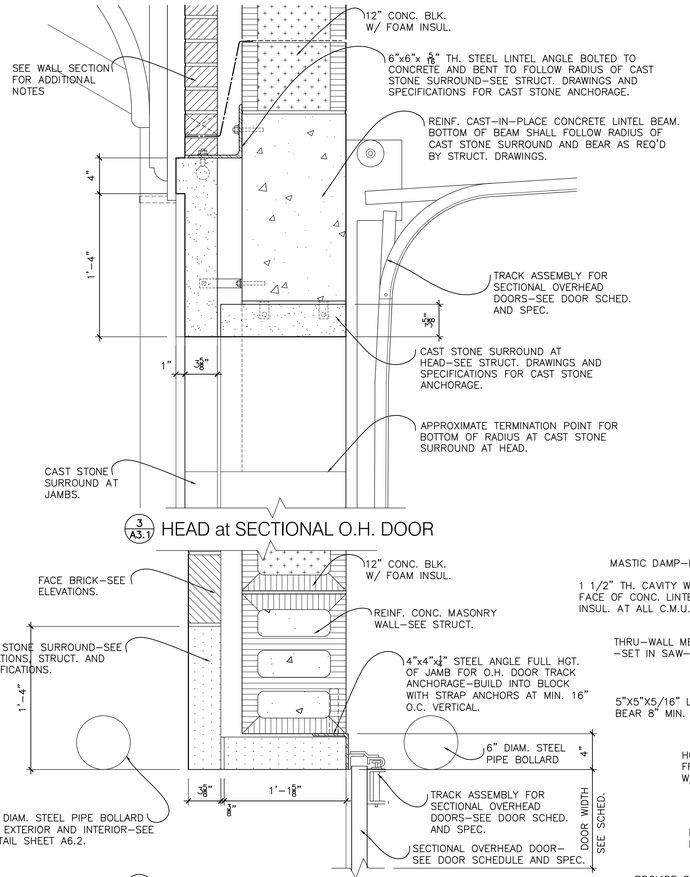
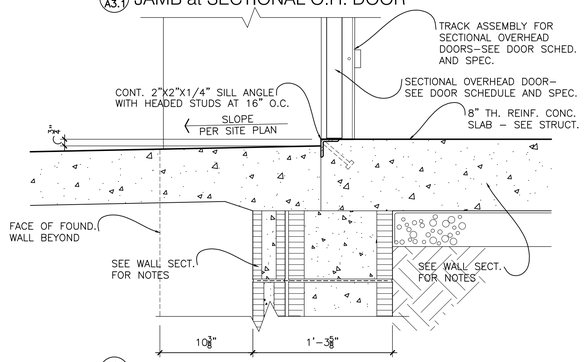
SHEET A3.0 OF 23 SHEETS



3 A3.1 HEAD at SECTIONAL O.H. DOOR

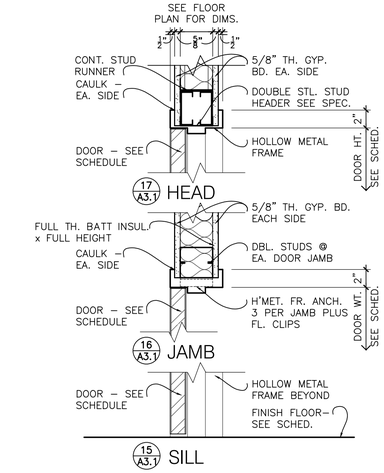
2 A3.1 JAMB at SECTIONAL O.H. DOOR



1 A3.1 SILL at SECTIONAL O.H. DOOR

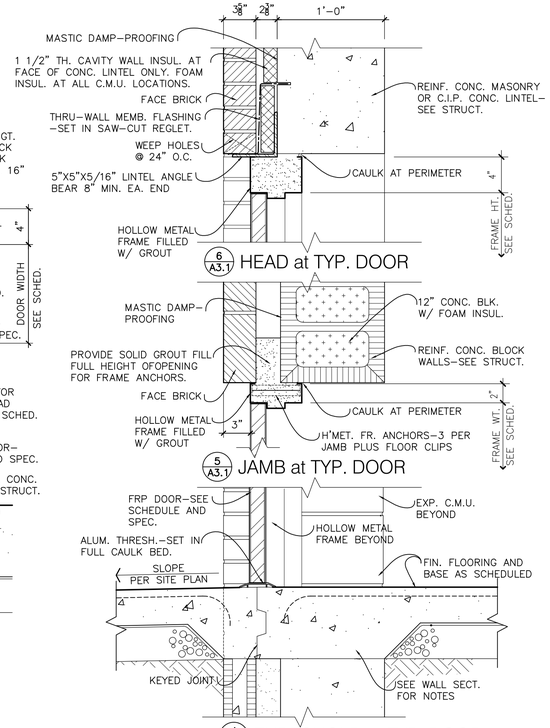
FRAME DETAILS at SECTIONAL OVERHEAD DOORS

SC: 1 1/2" = 1'—0" NOTE: COORD. W/ FLOOR PLAN & SCHED. FOR FIRE RATED MAT'L



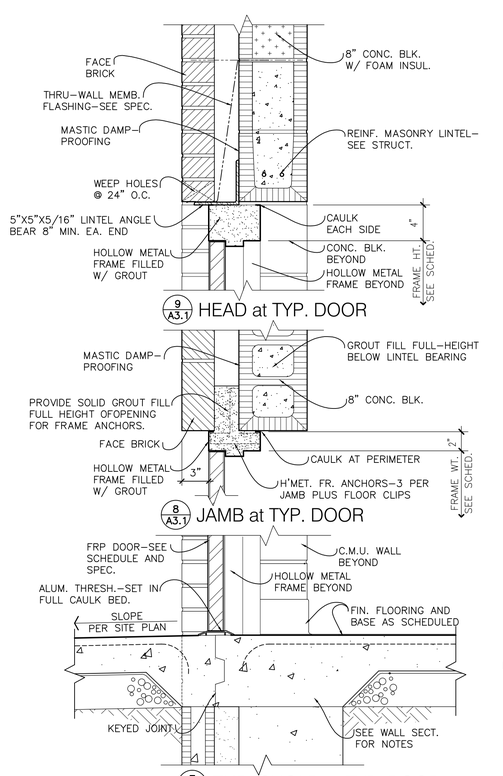
FRAME DETAILS for DOOR FRAMES in METAL STUDS w/ DRYWALL

SC.: 1 1/2" = 1'—0" NOTE: COORD. W/ FLOOR PLAN & SCHED. FOR FIRE RATED MAT'L



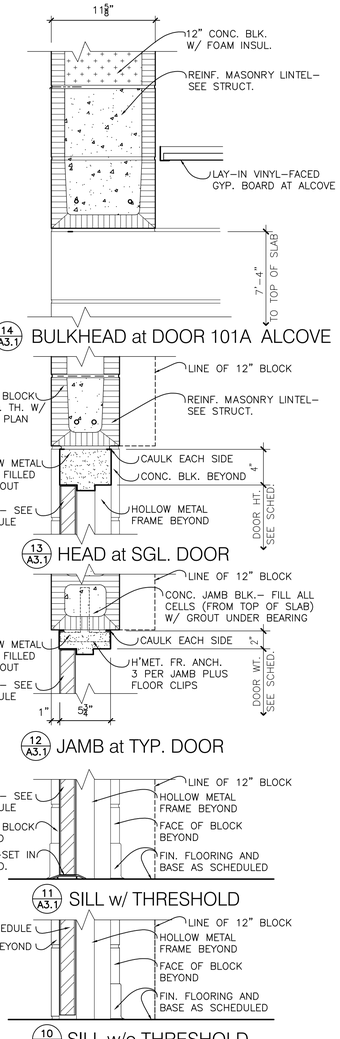
FRAME DETAILS at 18" FACE BRICK/C.M.U. WALLS

SC: 1 1/2" = 1'—0" NOTE: COORD. W/ FLOOR PLAN & SCHED. FOR FIRE RATED MAT'L



FRAME DETAILS at 14" FACE BRICK/C.M.U. WALLS

SC: 1 1/2" = 1'—0" NOTE: COORD. W/ FLOOR PLAN & SCHED. FOR FIRE RATED MAT'L



FRAME DETAILS at 8" or 12" EXPOSED INTERIOR C.M.U. WALLS

SCALE: 1 1/2" = 1'—0" NOTE: COORD. W/ FLOOR PLAN & SCHED. FOR FIRE RATED MAT'L

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DOOR and WINDOW DETAILS

SHEET ONE

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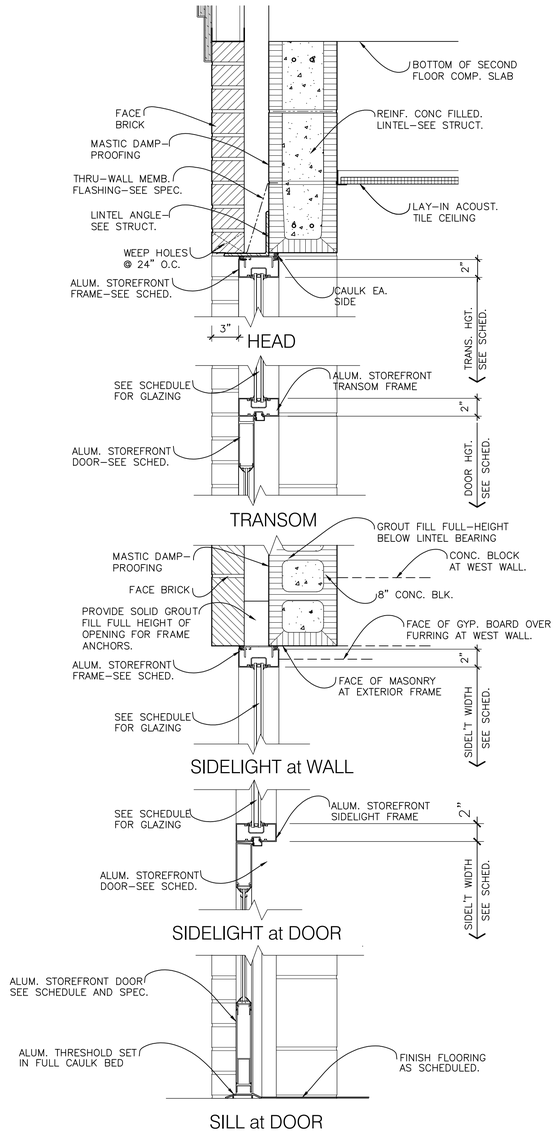
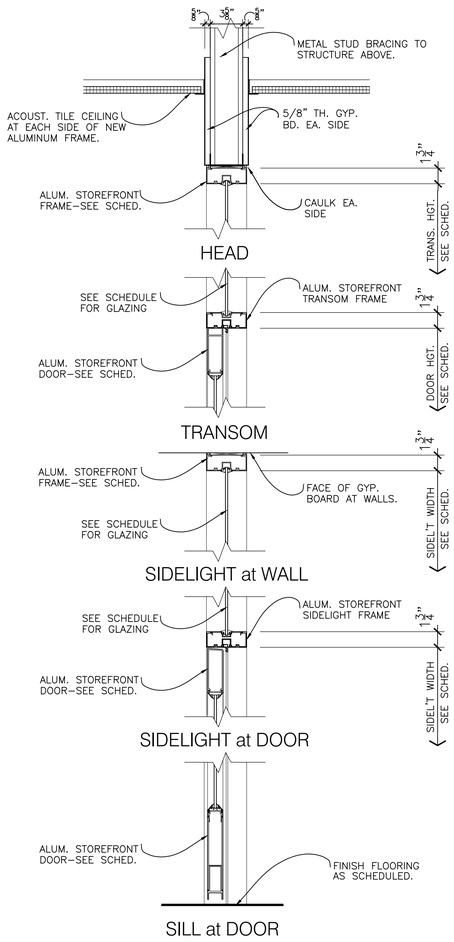
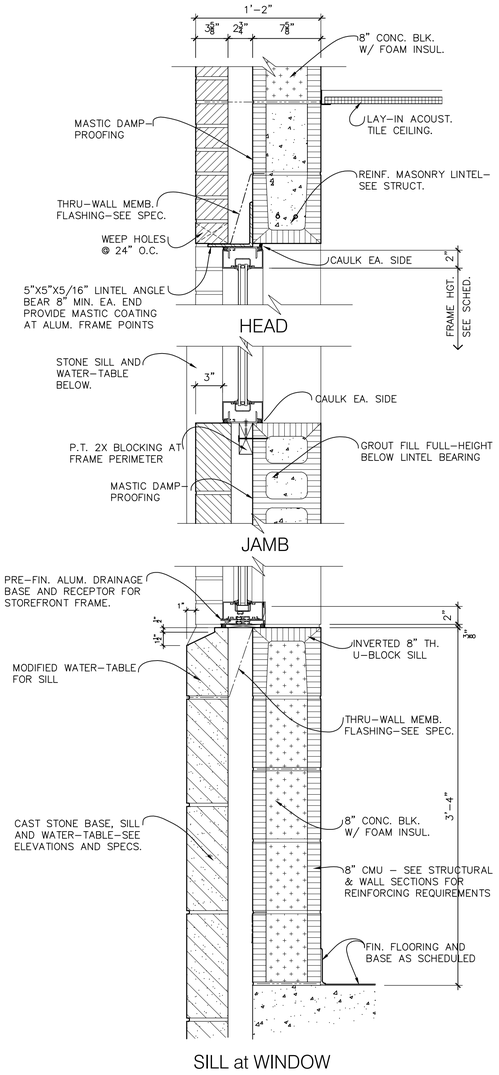


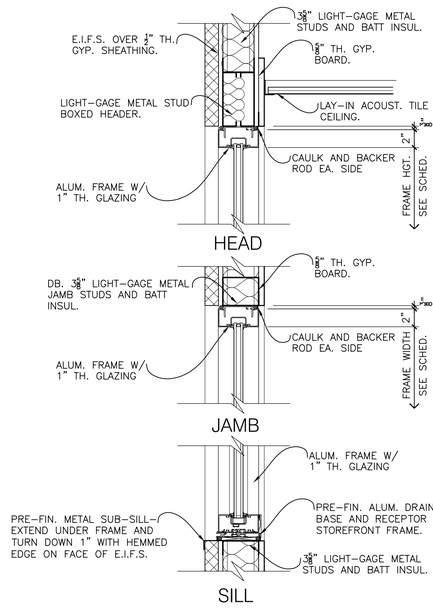
SECTION 1 / A3.2 thru EXT. ALUM. STOREFRONT ENTRANCE FRAME



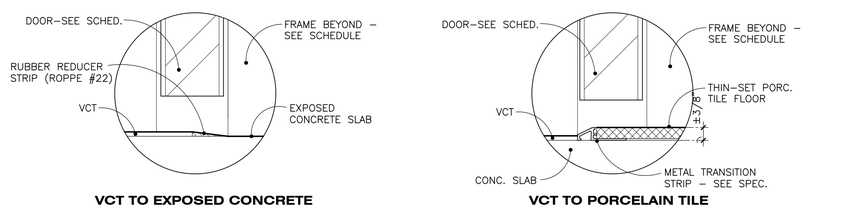
SECTION 2 / A3.2 thru INT. ALUM. STOREFRONT ENTRANCE FRAME



SECTION 3 / A3.2 thru ALUM. STOREFRONT WINDOWS



SECTION 4 / A3.2 thru ALUM. STOREFRONT DORMER WINDOWS



TYPICAL FINISH FLOORING TRANSITION DETAILS

SC: 6" = 1'-0"

STATE OF ALABAMA
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

DOOR and WINDOW DETAILS

SHEET TWO

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A3.0thruA3.2_Sched.dwg
JOB NO.	23–03
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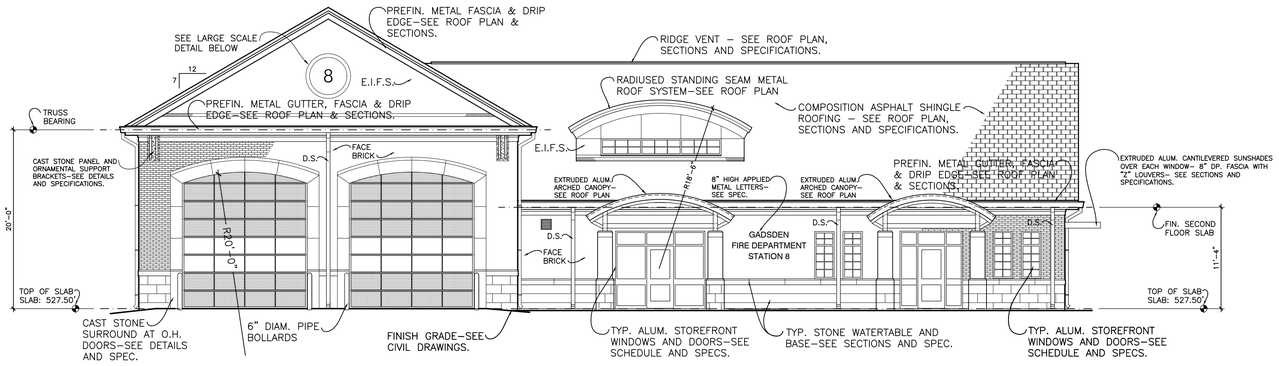
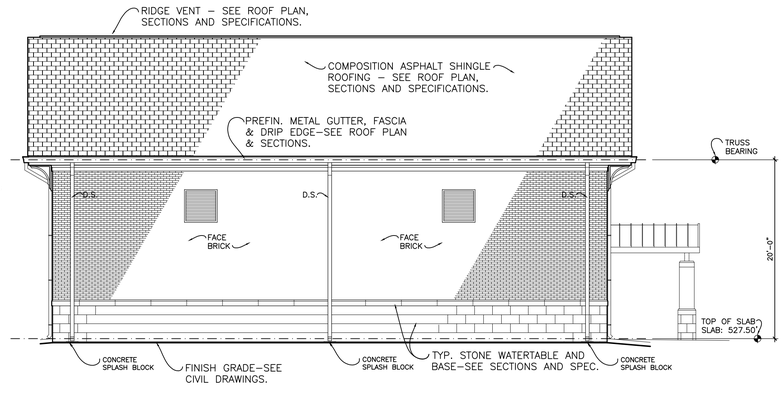
SHEET A3.2 OF 23 SHEETS



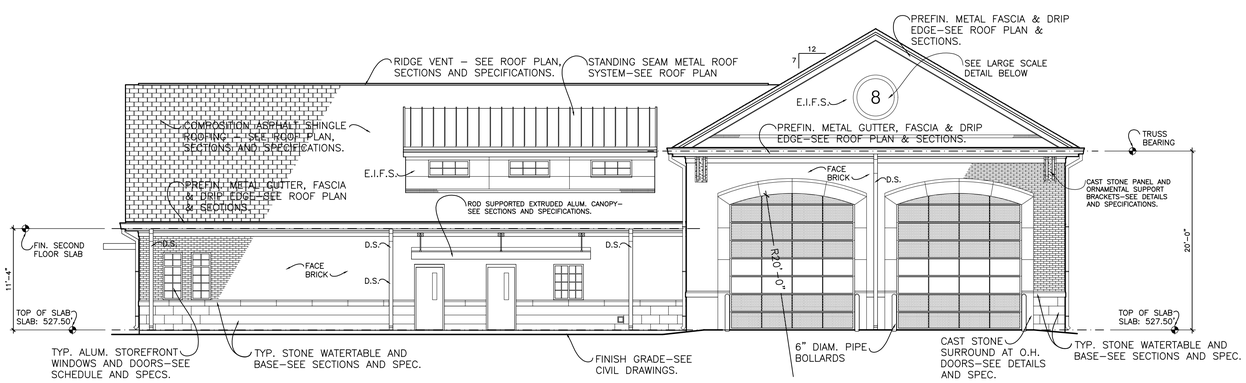
SOUTH (FRONT) ELEVATION

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



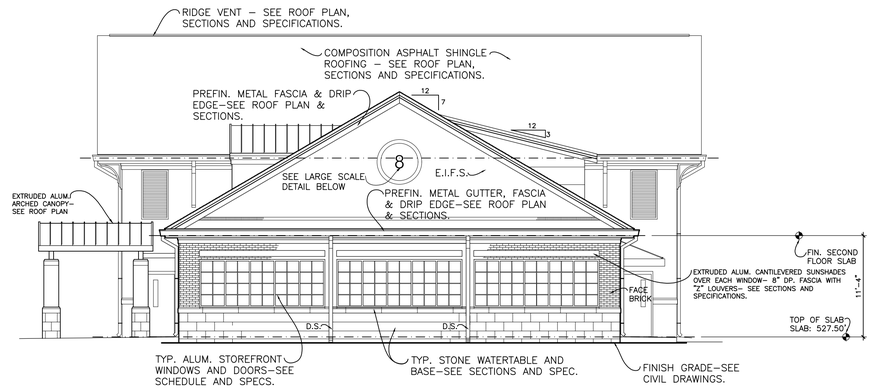
WEST (LEFT SIDE) ELEVATION

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



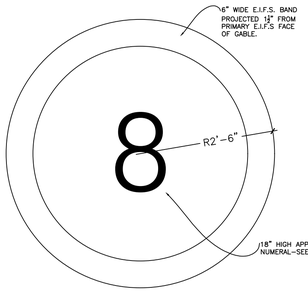
NORTH (REAR) ELEVATION

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



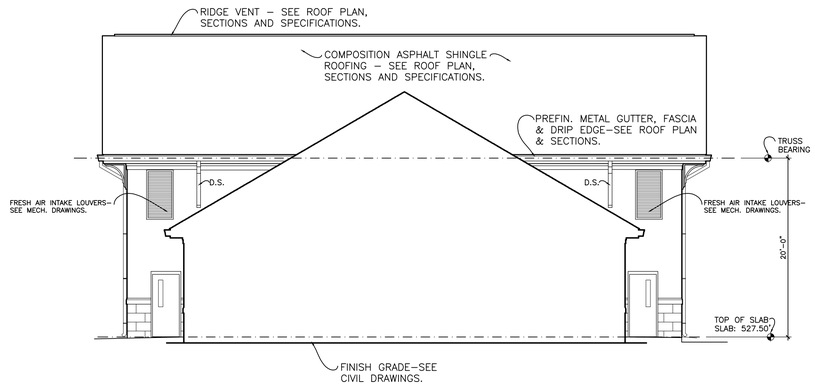
EAST (RIGHT SIDE) ELEVATION

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



1 / A4.0 LARGE SCALE GABLE EMBLEM

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



EAST (RIGHT SIDE) ELEVATION of APPARATUS BAY

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

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ELEVATIONS

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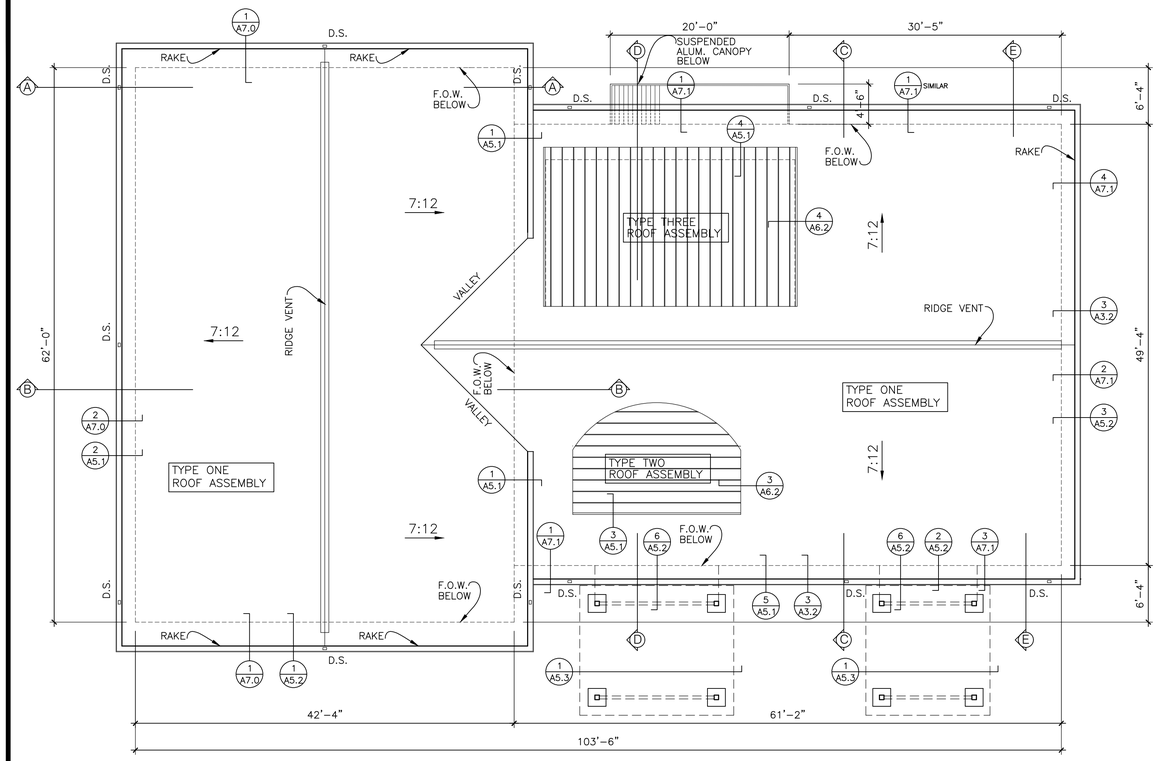
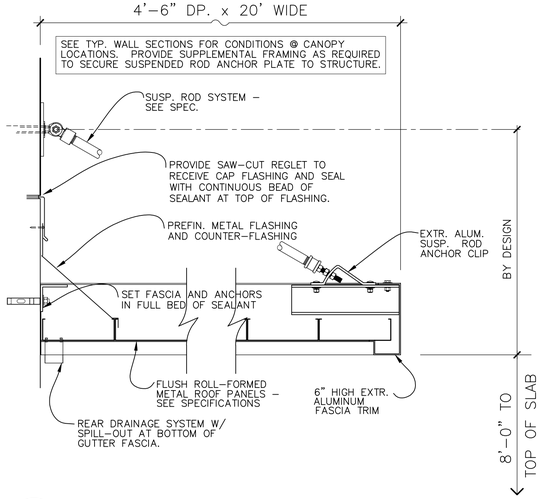


ARCHITECTURAL ROOF PLAN

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

ROOF PLAN LEGEND:

- V.S.T.R. — NEW PLUMBING VENT STACK – SEE PLUMBING DWGS. ALSO SEE A5.1 FOR FLASHING DETAILS.
- D.S./B. — DOWNSPOUT & BOOT – SEE CIVIL DWGS. FOR CONTINUATION TO OUT–FALL.
- E.F.R.C. — MECHANICAL EQUIPMENT/VENTS – SEE MECHANICAL DWGS. FOR CURB FLASHING DETAILS.



1 / A5.0 **TYPICAL SUSPENDED CANOPY**

SCALE: 1 1/2" = 1'-0" OCCURS OVER DOORS 107A, 108 and WINDOW TYPE "7"

NOTE:
SEE PLUMBING AND MECHANICAL ROOF PLAN FOR ALL PLUMBING AND MECHANICAL ROOF PENETRATIONS AND DETAILS.

ROOF ASSEMBLIES:

ROOF ASSEMBLY "TYPE ONE":

ARCHITECTURAL COMPOSITION SHINGLES, OVER UNDERLAYMENT AS SPECIFIED OVER NOM. 6.625" THICK VENTED NAIL BASE INSULATION (R–20) OVER 1" DP. x 22 GA. FLUTED METAL DECK (SEE STRUCTURAL), OVER LIGHT–GAUGE STEEL TRUSSES @ 48" O.C. (MAXIMUM).

ROOF ASSEMBLY "TYPE TWO":

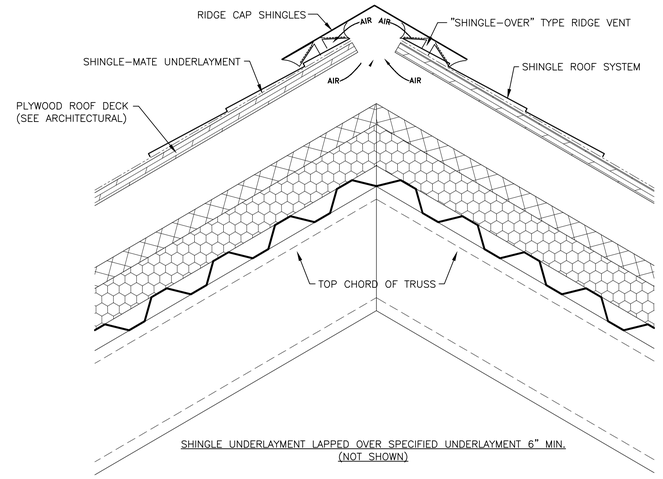
RADIUSED PRE–FIN. STANDING SEAM METAL ROOF PANELS, OVER UNDERLAYMENT AS SPECIFIED, OVER NOM. 5/8" TH. RADIUSED PLYWOOD DECKING, OVER 1" DP. FLUTED METAL DECK (APPLIED PERPENDICULAR TO RADIUSED LIGHT–GAUGE STEEL TRUSSES (SEE STRUCT.),

ROOF ASSEMBLY "TYPE THREE":

PRE–FIN. STANDING SEAM METAL ROOF PANELS, OVER UNDERLAYMENT AS SPECIFIED, OVER NOM. 5/8" TH. PLYWOOD DECKING, OVER NOM. 6.625" TH. VENTED NAIL BASE INSULATION (R–20) OVER 1" DP x 22 GA. FLUTED METAL DECK (SEE STRUCTURAL), OVER LIGHT GAGE STEEL FRAMING @ 48" O.C. (MAXIMUM).

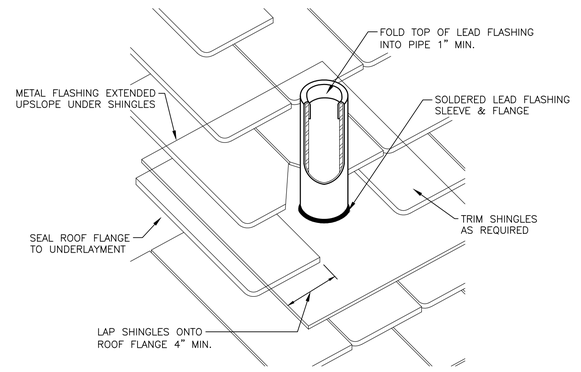
ROOF ASSEMBLY "TYPE FOUR":

ARCHITECTURAL COMPOSITION SHINGLES, OVER UNDERLAYMENT AS SPECIFIED OVER NOM. 5/8" TH. PLYWOOD DECKING, OVER 7/8" DP. METAL HAT SECTIONS AT 16" O.C. (APPLIED PERPENDICULAR TO 1" DP. x 22 GA. FLUTED METAL DECKING (SEE STRUCTURAL), OVER LIGHT GAUGE STEEL FRAMING @ 48" O.C. (MAXIMUM).



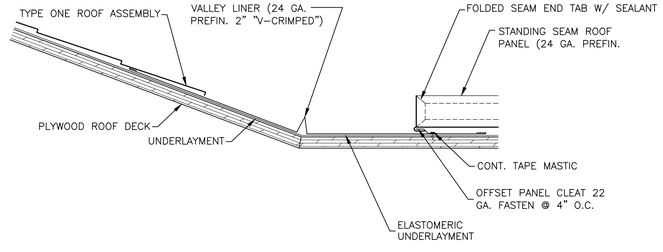
2 / A5.0 **TYPICAL ROOF-OVER VENTING RIDGE CAP**

SCALE: 3"=1'-0"



3 / A5.0 **VENT/PIPE PENETRATION FLASHING**

SCALE: 3"=1'-0"



4 / A5.0 **TYPE ONE to TYPE TWO and TYPE 3 ROOF ASSEMBLY VALLEY INTERFACE**

SCALE: 3"=1'-0"

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ROOF PLAN SECTIONS & DETAILS

DRAWN	TMM
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SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A5.0_Roof Plan.dwg
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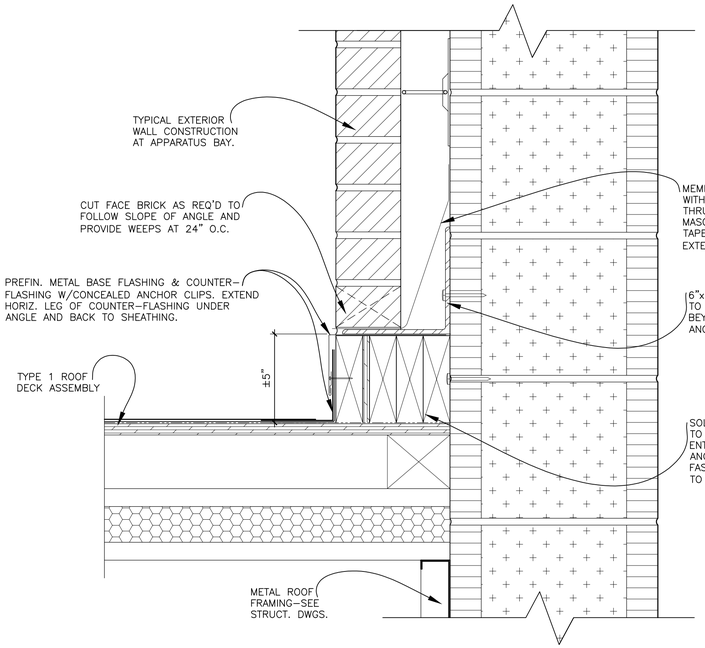
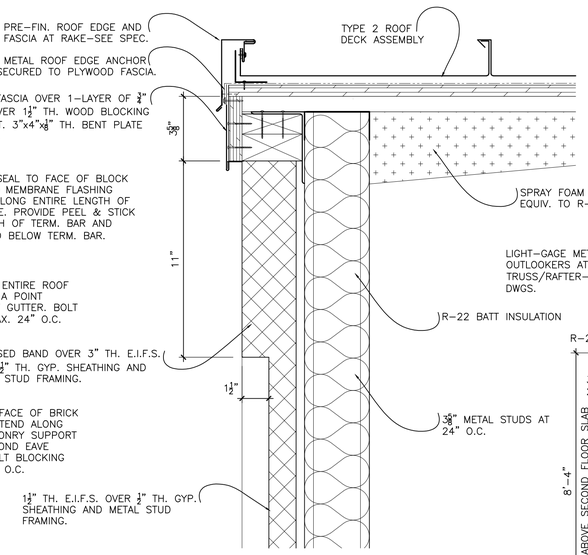
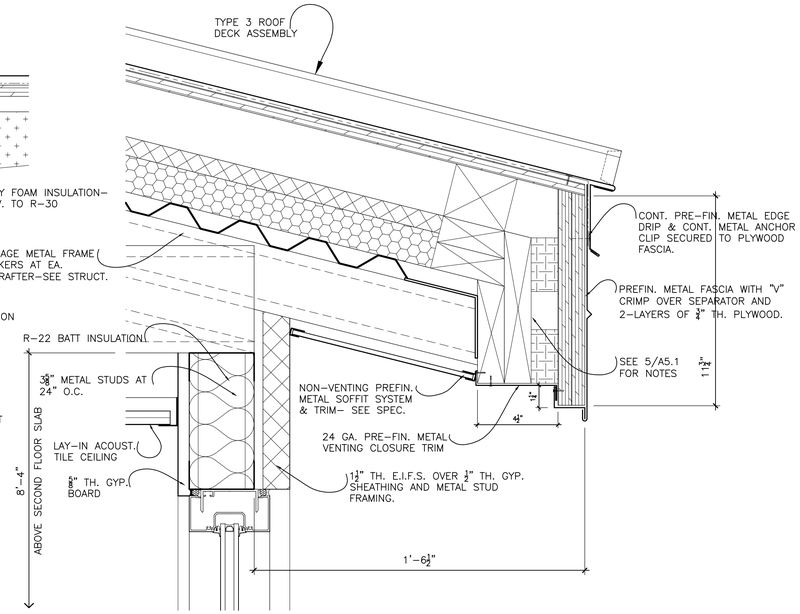
SHEET A5.0 OF 23 SHEETS



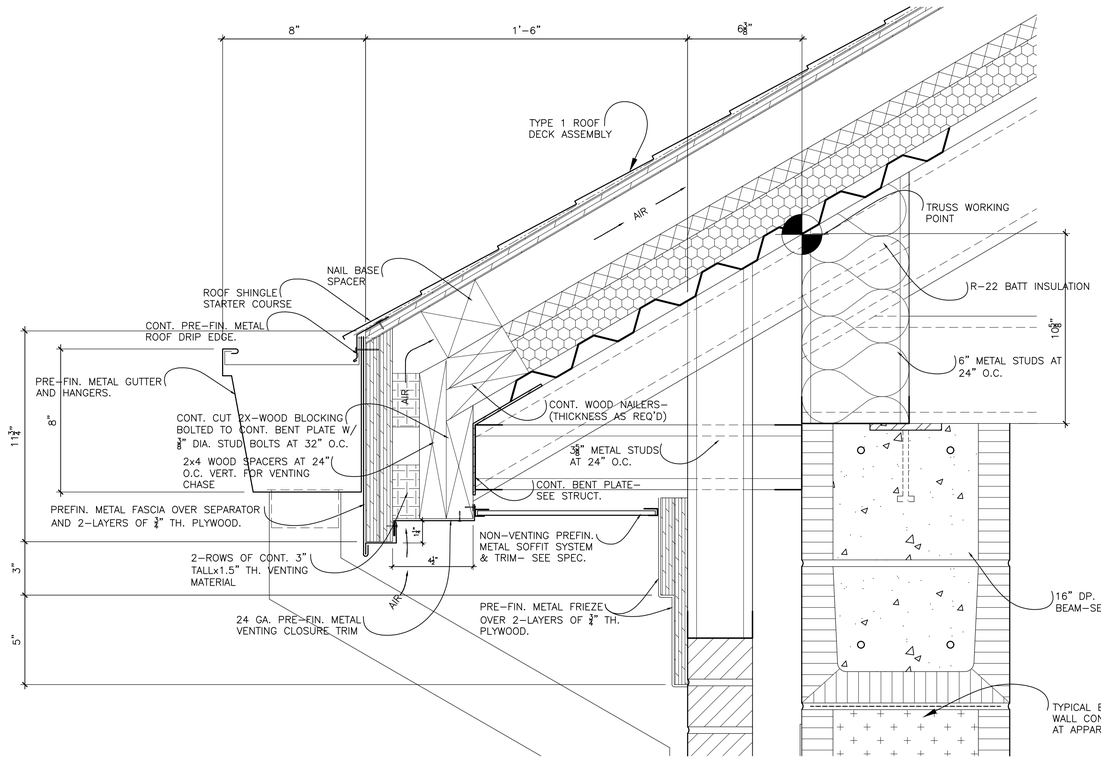
1 A5.1 ROOF to WALL FLASHING at APP. ROOM E. WALL
SCALE: 3"=1'-0"



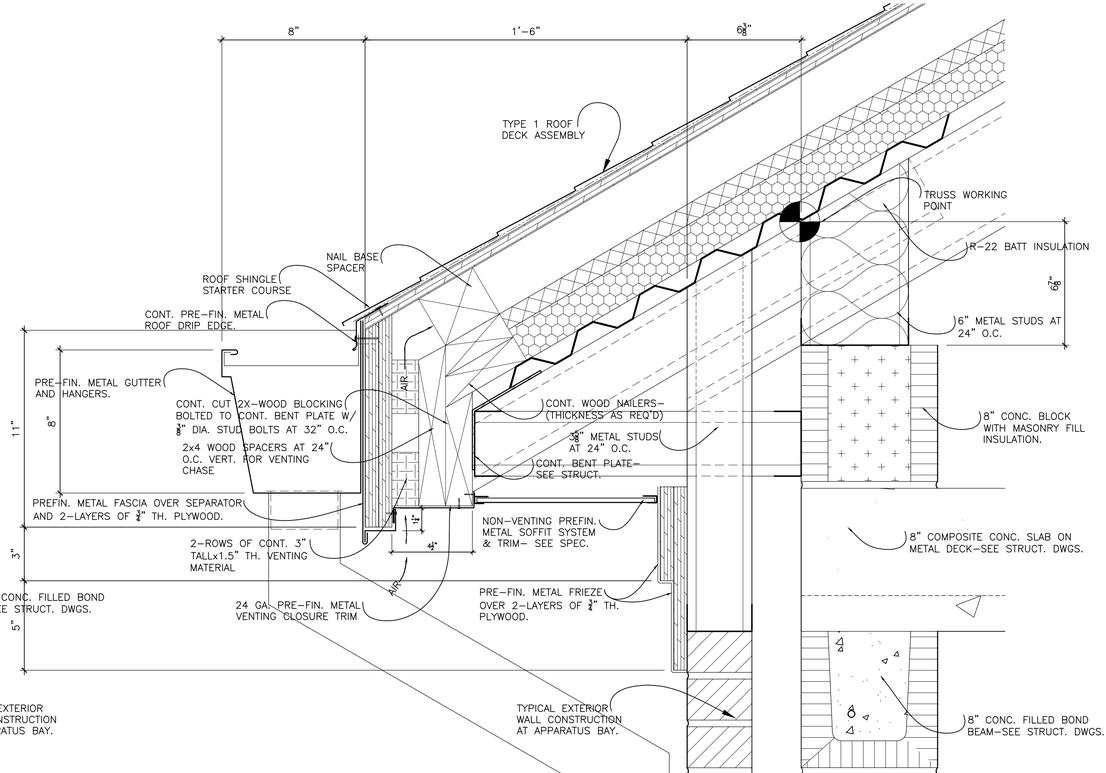
3 A5.1 BARREL VAULT DORMER RAKE DETAIL
SCALE: 3"=1'-0"



4 A5.1 SHED ROOF DORMER EAVE DETAIL
SCALE: 3"=1'-0"



2 A5.1 APPARATUS BAY EAVE DETAIL
SCALE: 3"=1'-0"



5 A5.1 ADMIN./DORM EAVE DETAIL
SCALE: 3"=1'-0"

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SECTIONS & DETAILS

SHEET ONE

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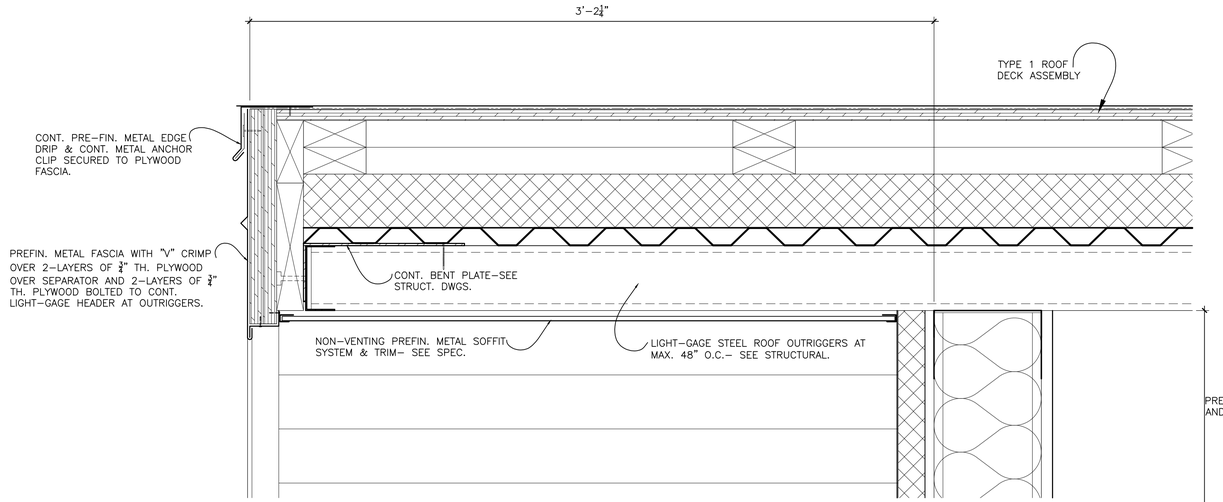
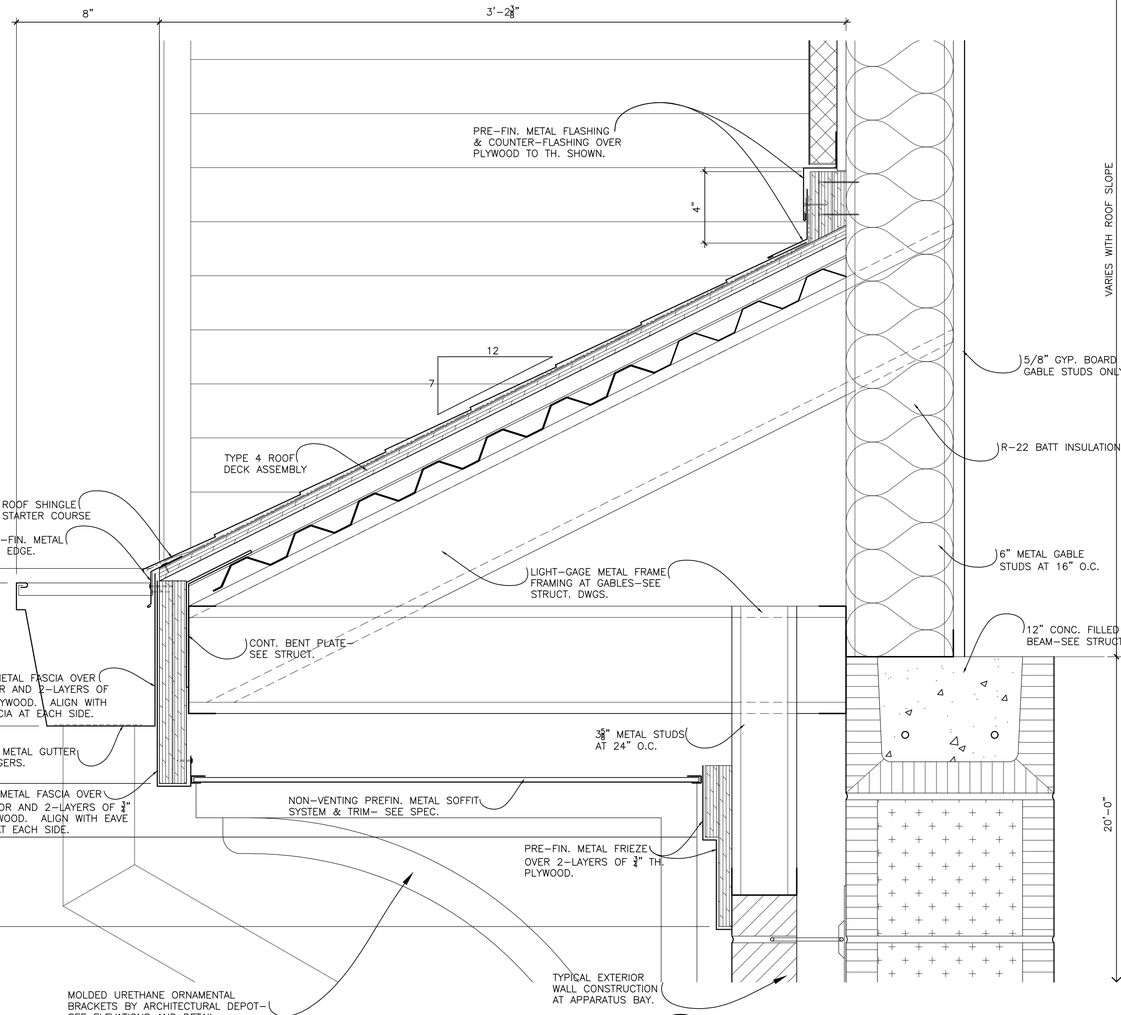
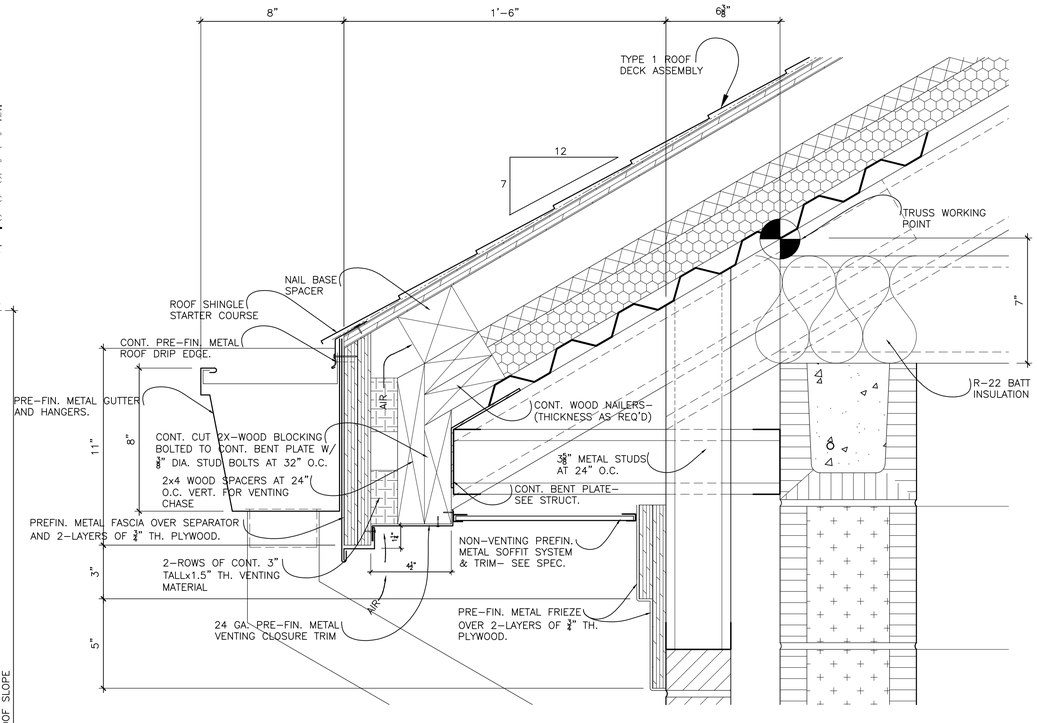
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A5.1_Roof Details.dwg
JOB NO.	23-03
REVISIONS	

SHEET A5.1 OF 23 SHEETS

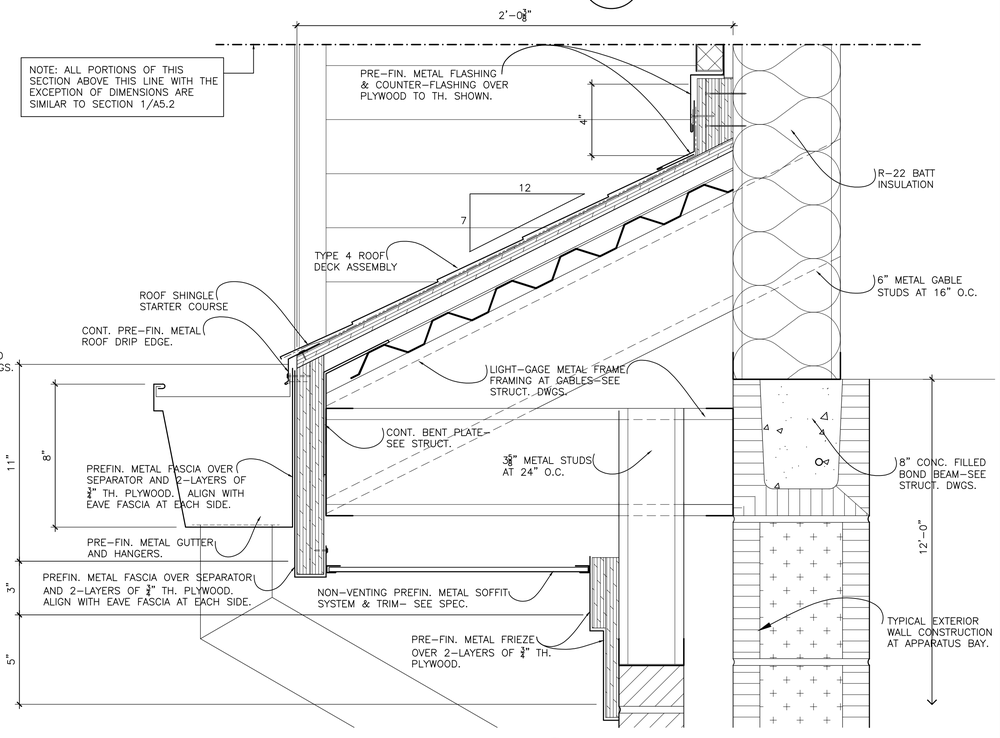




1 A5.2 APPARATUS BAY GABLE EAVE DETAIL
SCALE: 3"=1'-0"



2 A5.2 G.P.D. PRECINCT EAVE DETAIL
SCALE: 3"=1'-0"



3 A5.2 G.P.D. PRECINCT GABLE EAVE DETAIL
SCALE: 3"=1'-0"

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SECTIONS & DETAILS

SHEET TWO

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SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A5.1_Roof Details.dwg
JOB NO.	23-03
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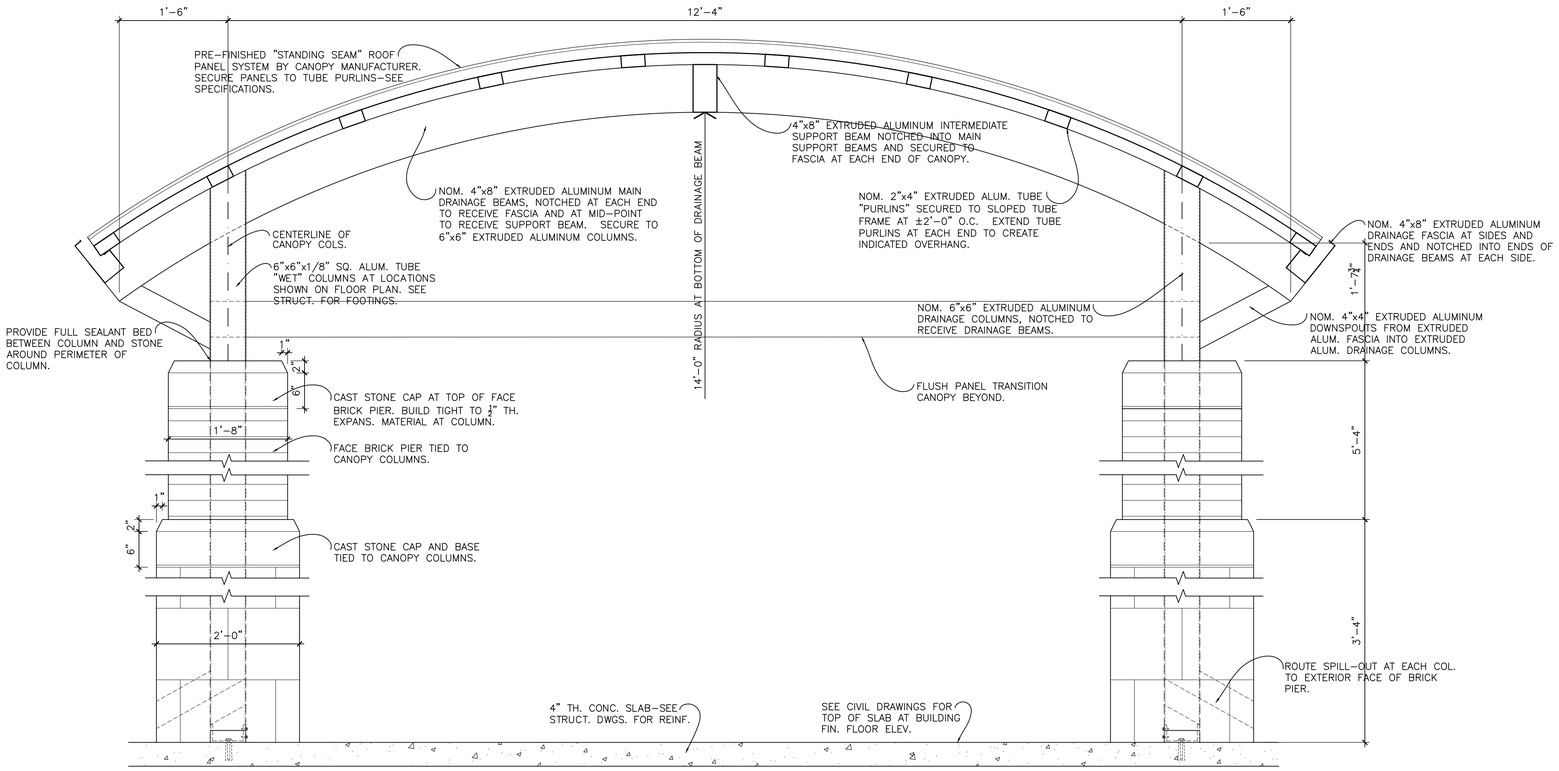
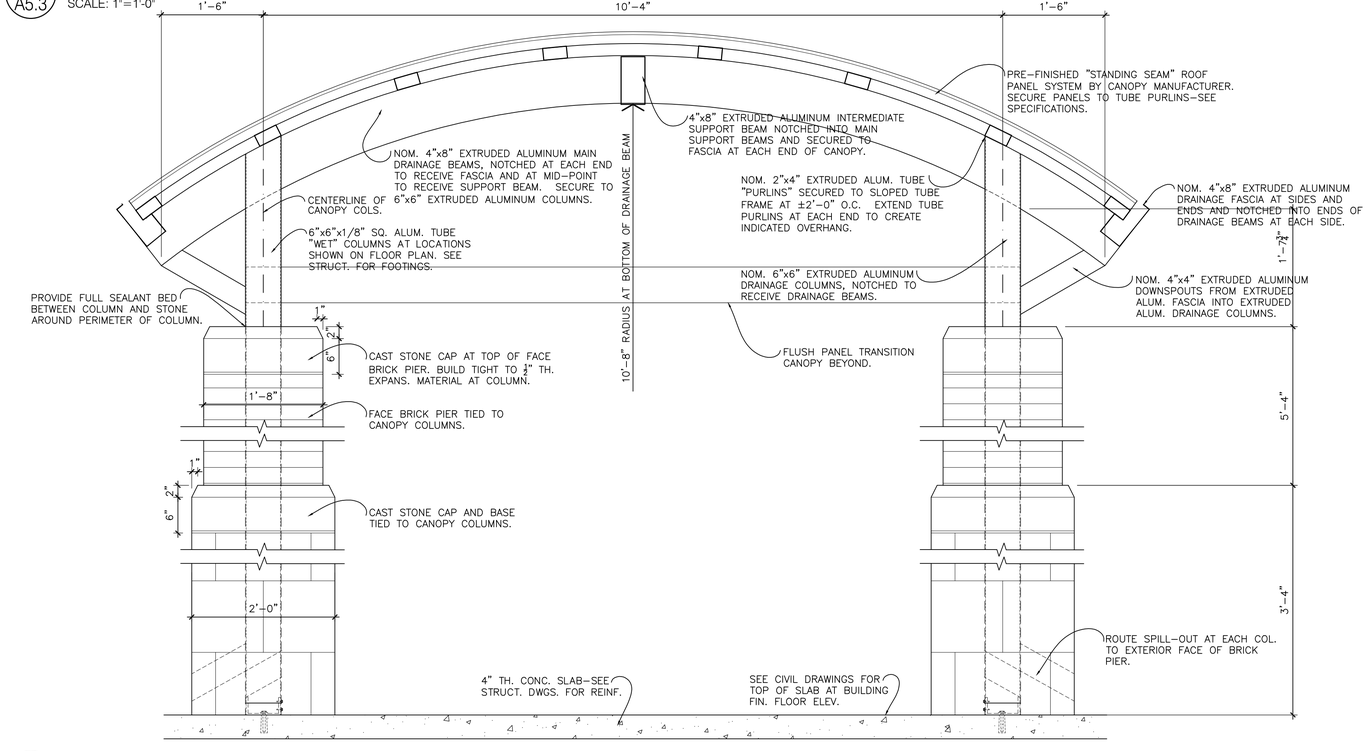
SHEET A5.2 OF 23 SHEETS



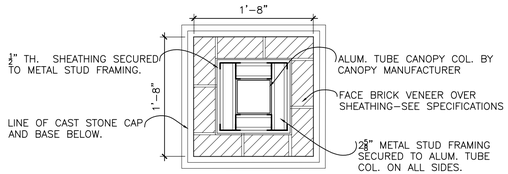
1 A5.3 SECTION thru ENTRANCE CANOPY at DOOR 100

SCALE: 1"=1'-0"



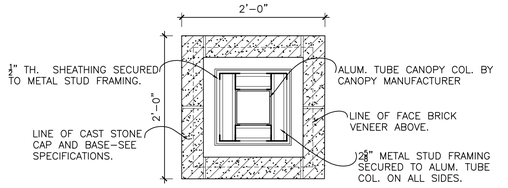
2 A5.3 SECTION thru ENTRANCE CANOPY at DOOR P100

SCALE: 1"=1'-0"



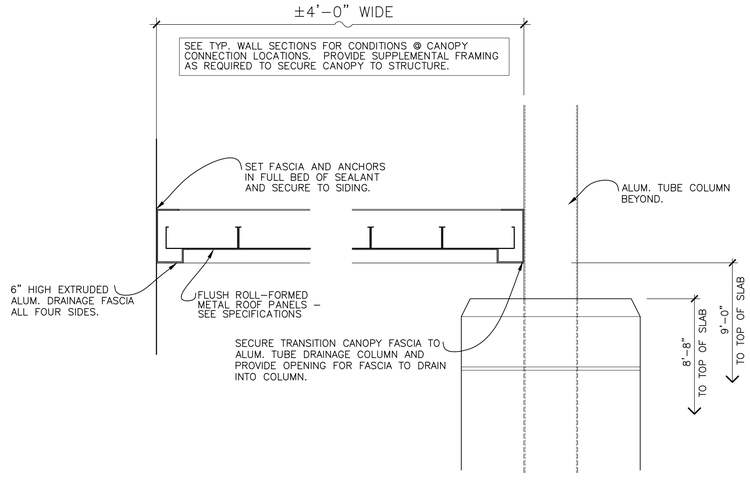
3 A5.3 PLAN SECTION at FACE BRICK PORTION of CANOPY COLUMN

SCALE: 1" = 1'-0"



4 A5.3 PLAN SECTION at CAST STONE PORTION of CANOPY COLUMN

SCALE: 1" = 1'-0"



6 A5.2 SECTION thru TYP. TRANSITION CANOPY

SCALE: 1 1/2" = 1'-0" OCCURS AT DOORS 100 AND P100

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RADIUSED CANOPIES, SECTIONS & DETAILS

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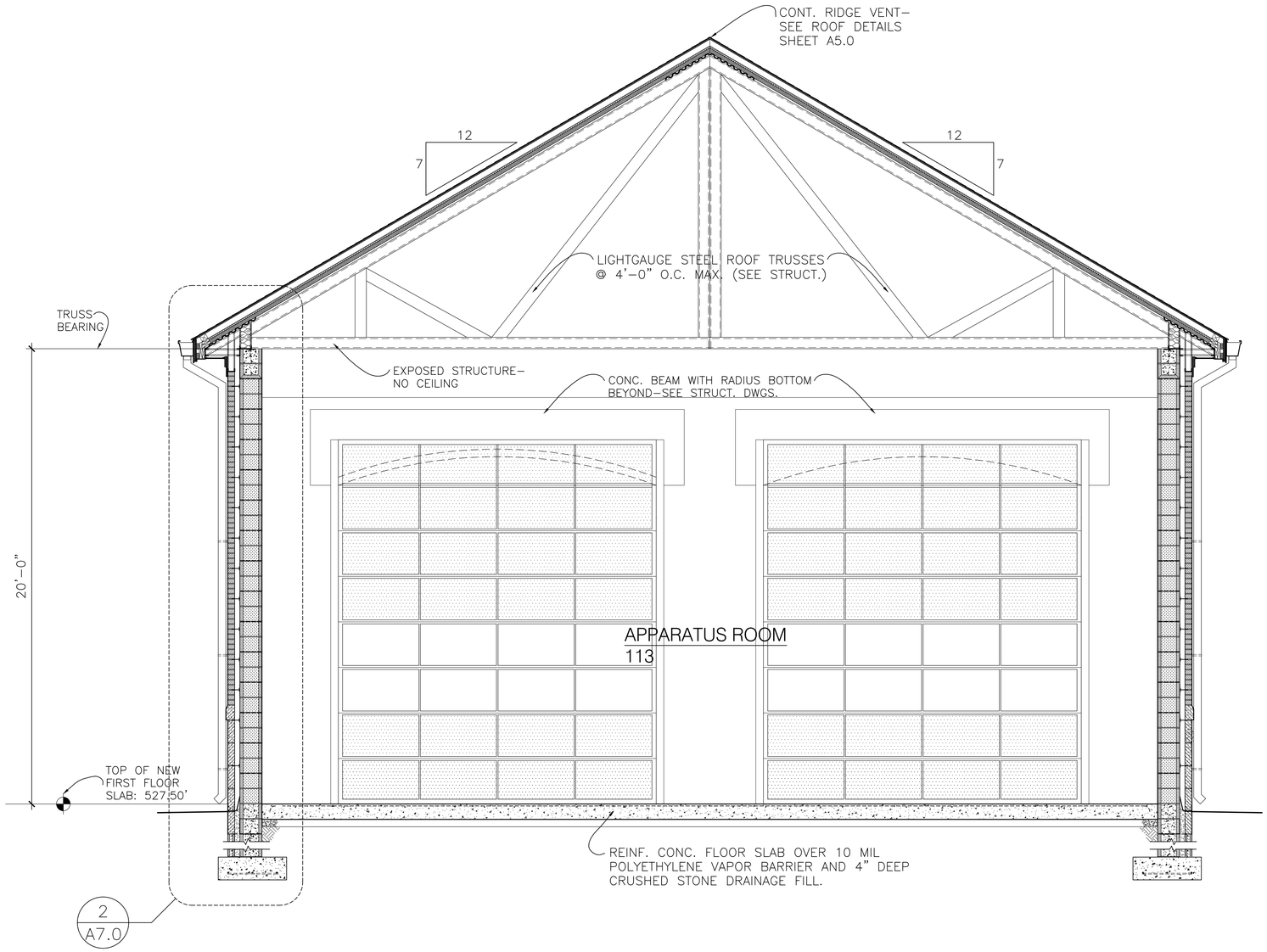
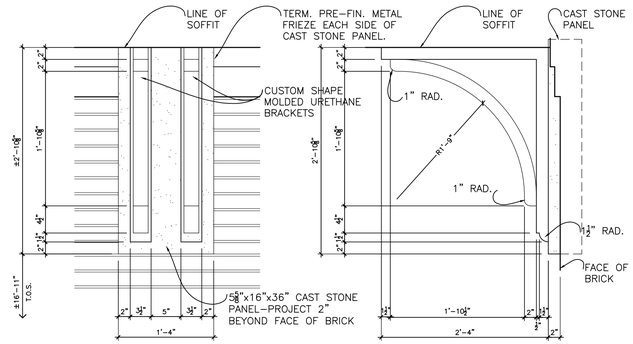
SHEET A5.3 OF 23 SHEETS



CROSS SECTION "A-A" thru APPARATUS BAY

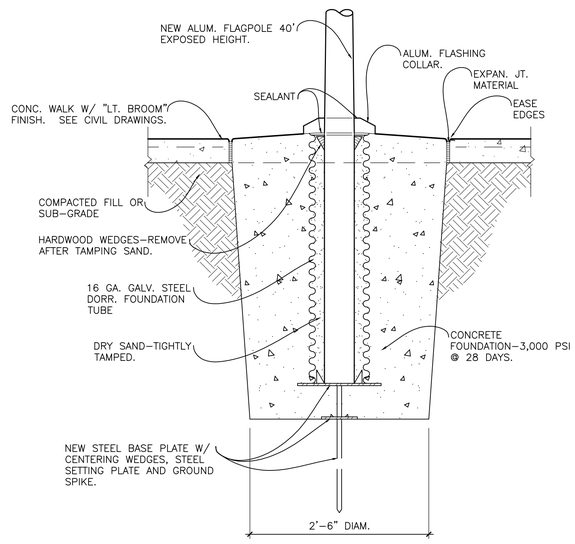
SCALE: 3/8" = 1'-0"



1 / A6.0 ORNAMENTAL SUPPORT BRACKET ELEVATION and SECTION

SCALE: 1" = 1'-0"

SEE ELEVATIONS FOR LOCATIONS and SPEC. for BRACKET and STONE



2 / A6.0 BASE DETAIL at FLAGPOLE

SCALE: 1" = 1'-0" (SEE FLOOR PLAN for LOCATION)

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CROSS SECTION

SHEET ONE

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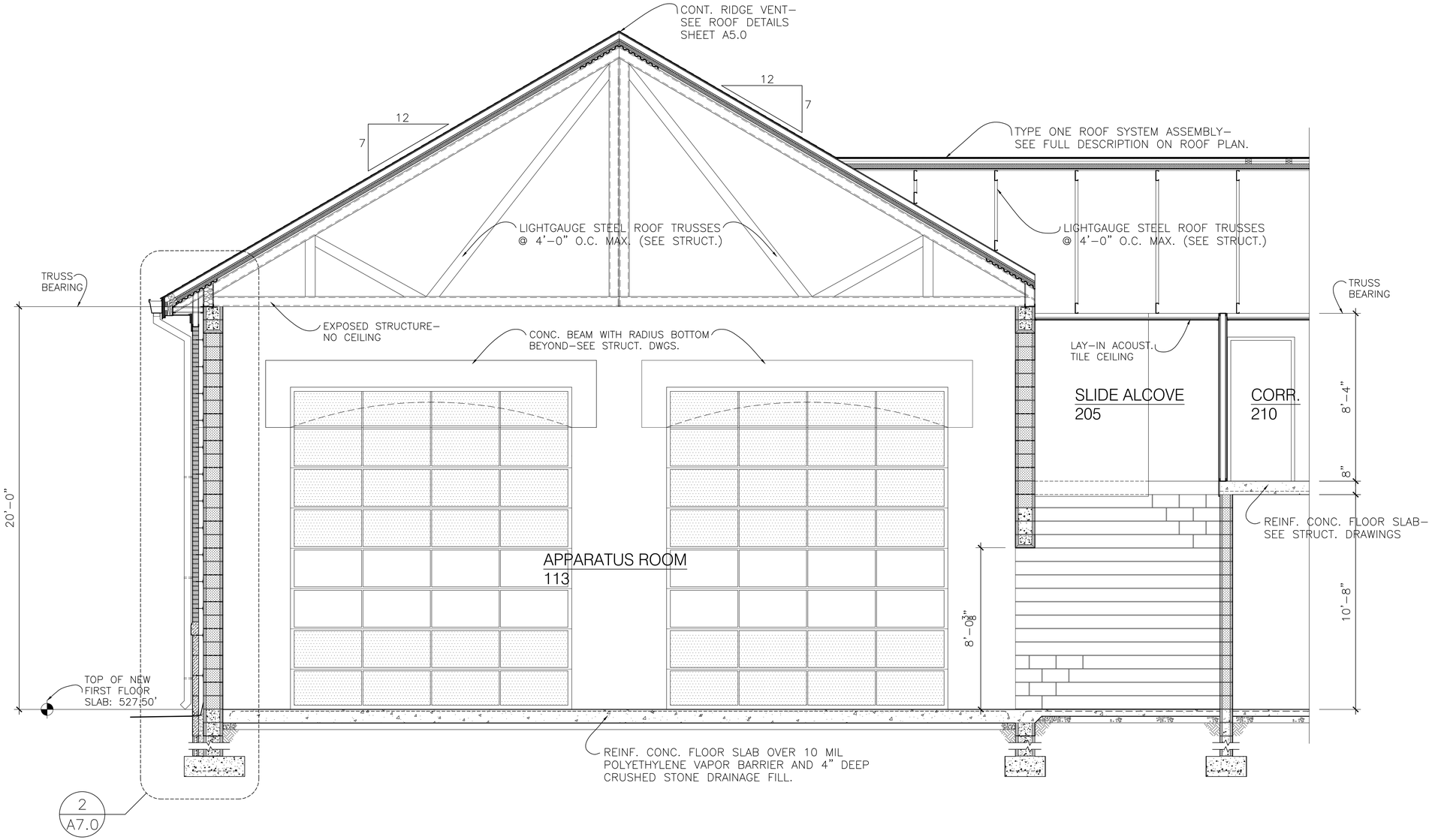
SHEET A6.0 OF 23 SHEETS



CROSS SECTION "B-B" thru APPARATUS BAY and SLIDE ALCOVE

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

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CROSS SECTION

SHEET TWO

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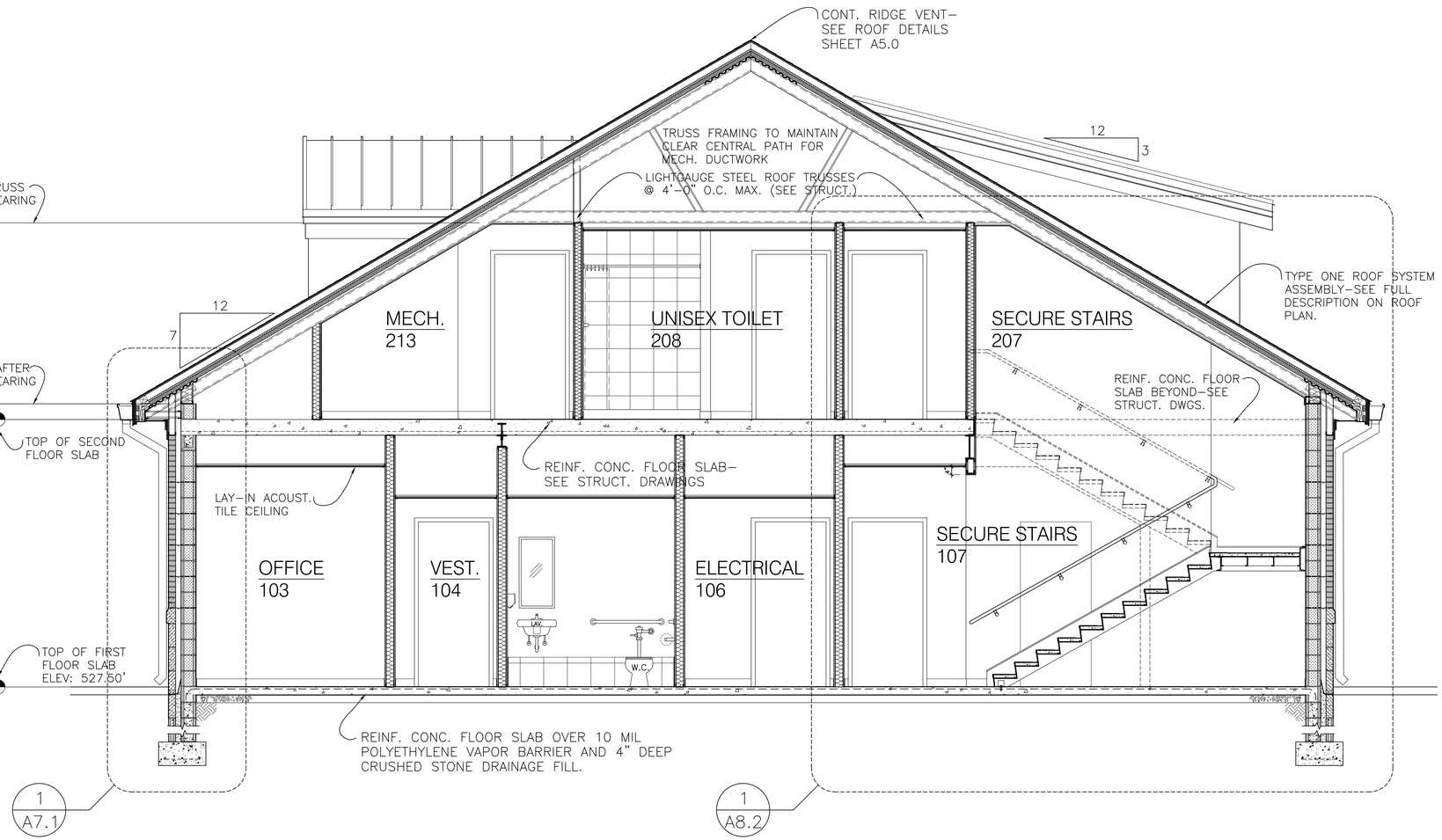
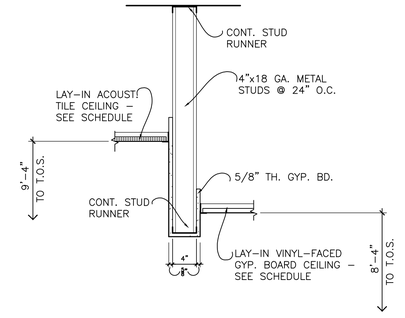
DATE	DECEMBER 30, 2025
FILE	A6.0–6.1CS.DWG
JOB NO.	23–03
REVISIONS	

SHEET A6.1 OF 23 SHEETS

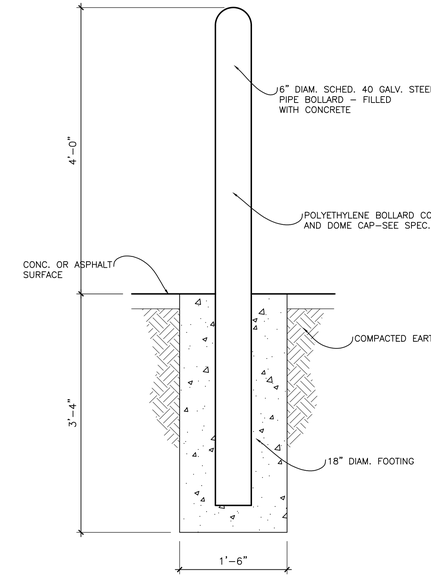


CROSS SECTION "C-C" thru LOWER RUN at STAIRWELL and TOILETS

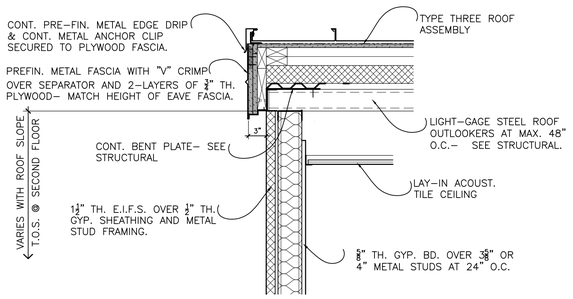
SCALE: 3/8" = 1'-0"



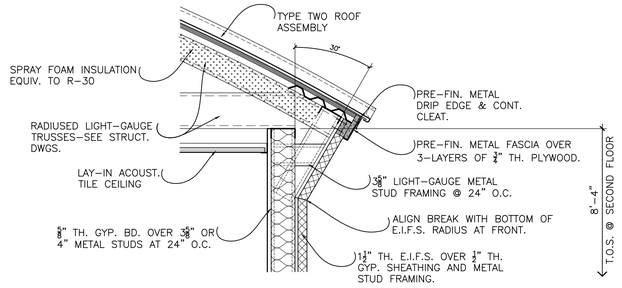
1 / A6.2 GYP. BOARD BULKHEAD at CEILING TRANSITION
SCALE: 1" = 1'-0"



2 / A6.2 SECTION thru TYP. STEEL PIPE BOLLARD
SCALE: 1" = 1'-0" (DENOTED AS "P.B." - SEE FLOOR PLAN FOR LOCATIONS)



4 / A6.2 SECTION thru RAKE of SHED DORMER ROOF
SCALE: 1" = 1'-0"



3 / A6.2 SECTION thru EAVE of RADIUSED DORMER ROOF
SCALE: 1" = 1'-0"

STATE OF ALABAMA
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA
REGISTERED ARCHITECT

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

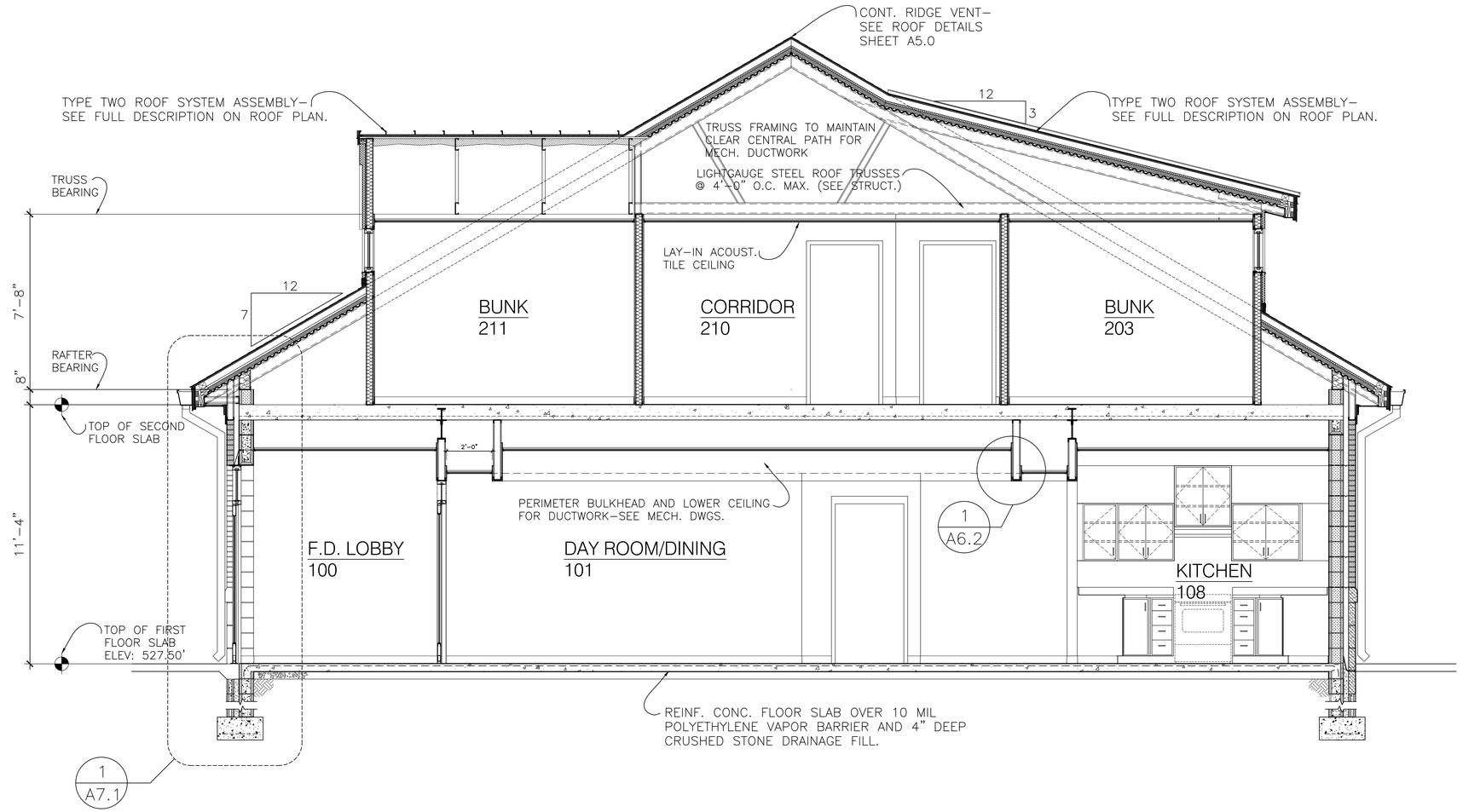
A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

CROSS SECTION

SHEET THREE

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A6.0–6.1CS.DWG
JOB NO.	23–03
REVISIONS	

SHEET A6.2 OF 23 SHEETS



CROSS SECTION "D-D" thru DAYROOM and BUNKROOMS

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

STATE OF ALABAMA
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717 MERIT SPRINGS ROAD
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A NEW FIRE STATION NO. 8
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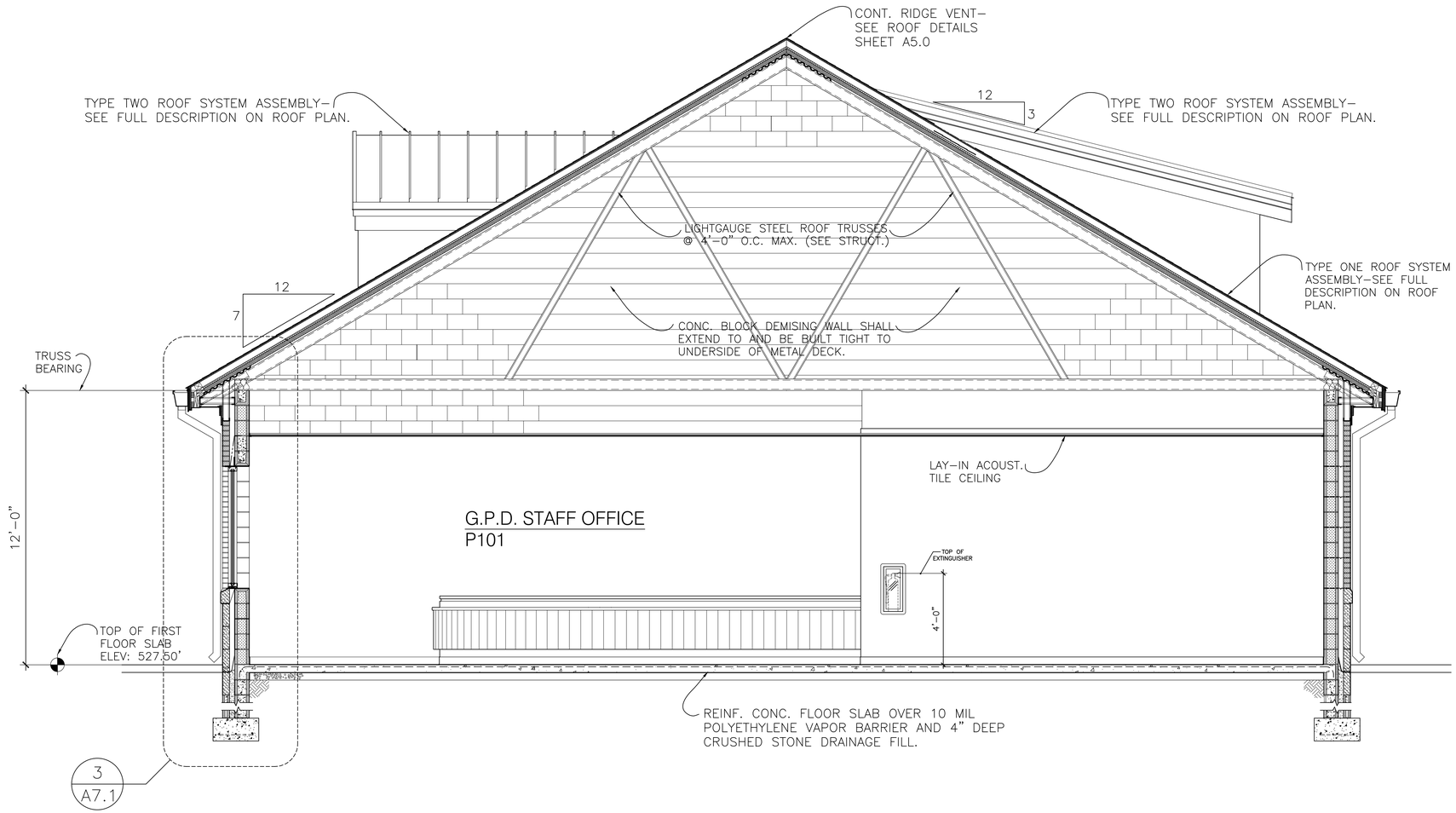
CROSS SECTION

SHEET FOUR

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A6.0–6.2CS.DWG
JOB NO.	23–03
REVISIONS	

SHEET A6.3 OF 23 SHEETS



CROSS SECTION "E-E" thru G.P.D. PRECINCT

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

STATE OF ALABAMA
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717 MERIT SPRINGS ROAD
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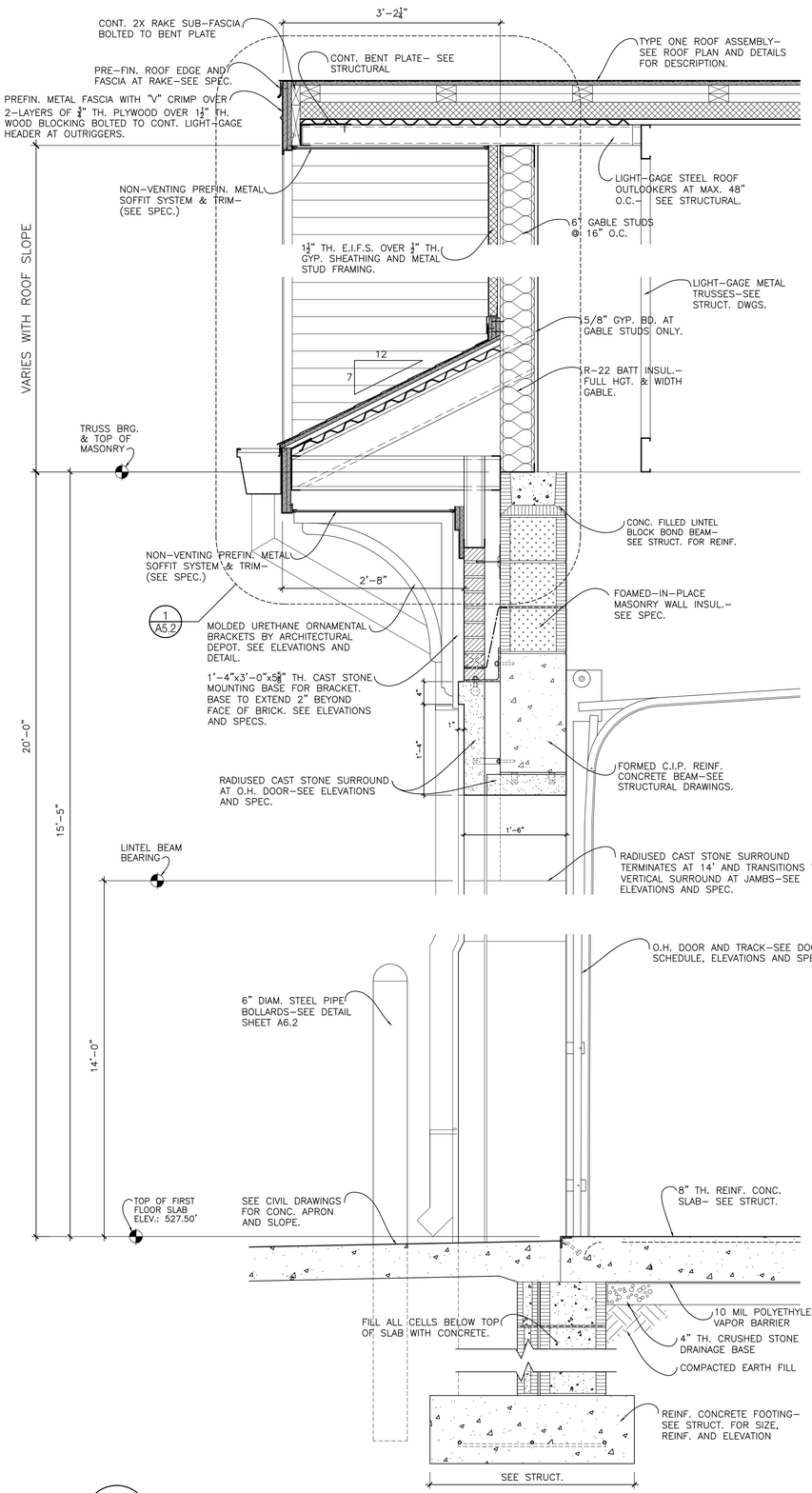
CROSS SECTION

SHEET FIVE

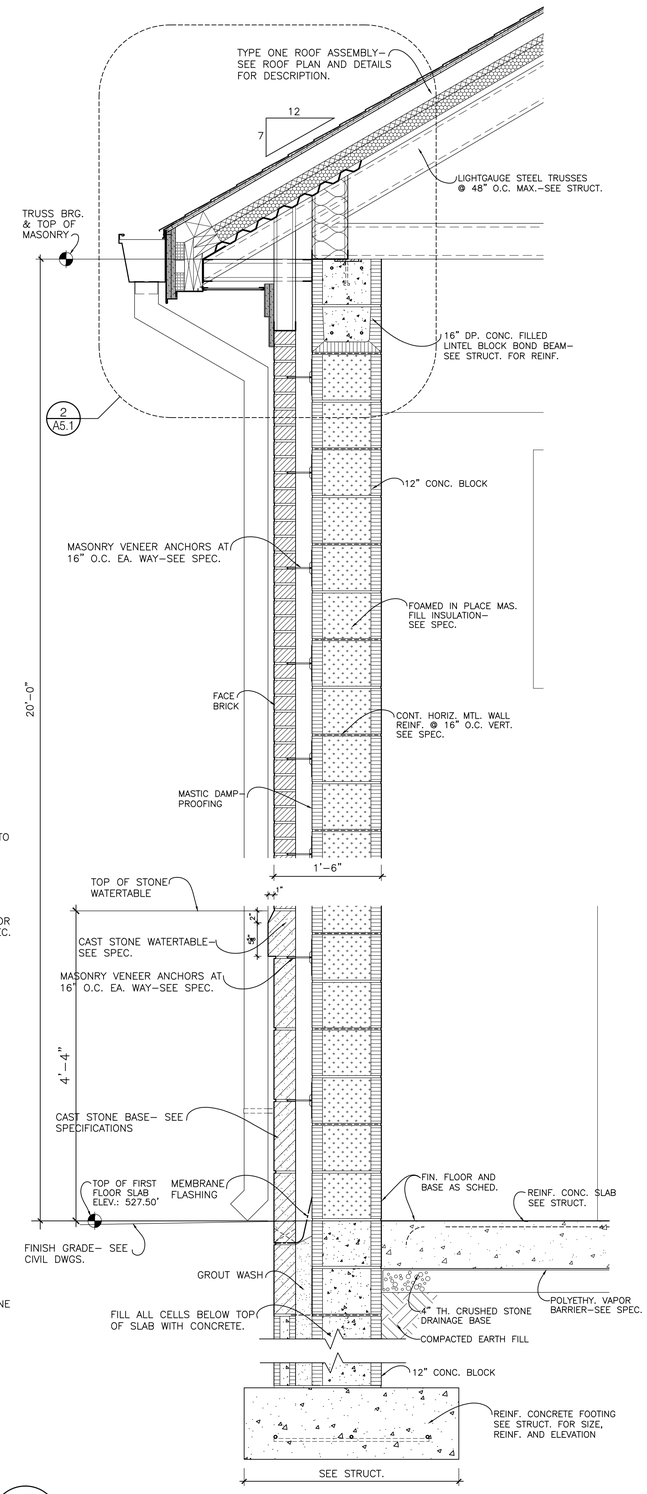
DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A6.0–6.2CS.DWG
JOB NO.	23–03
REVISIONS	

SHEET A6.4 OF 23 SHEETS



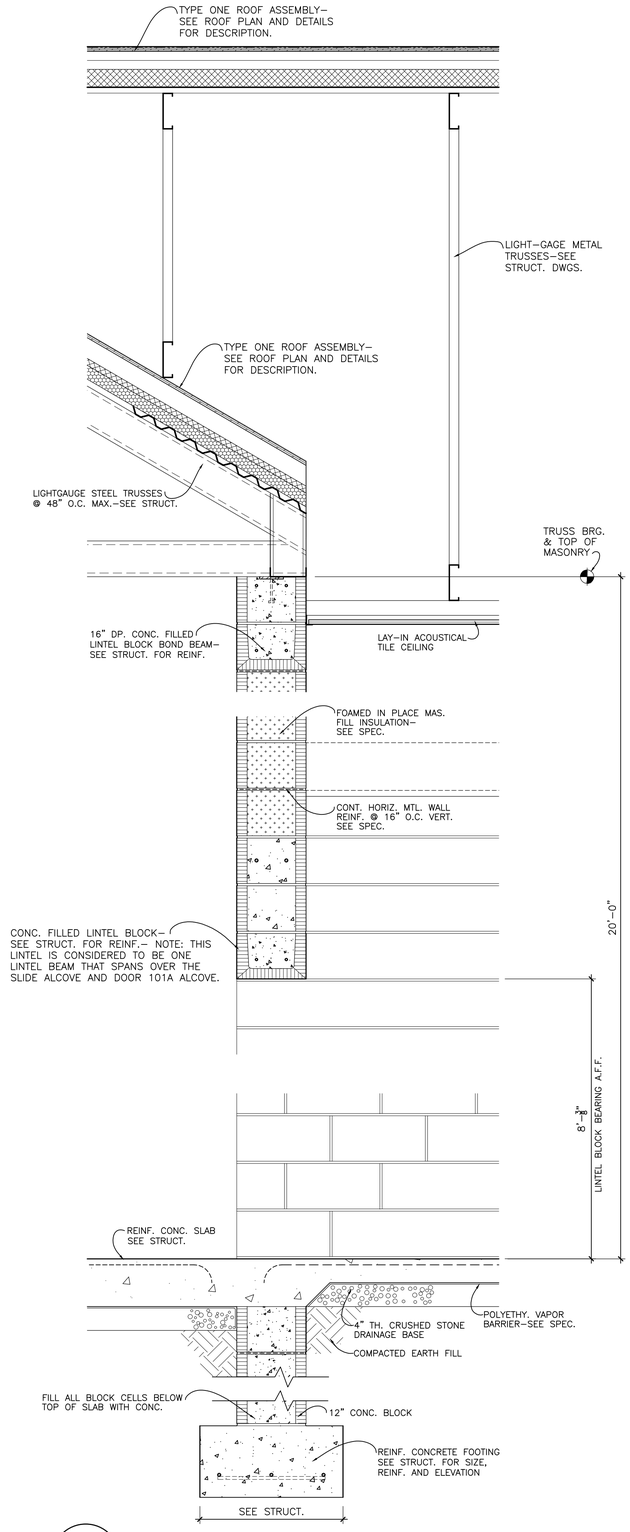
1 A7.0 SECTION at APPARATUS ROOM O.H. DOOR and GABLE

SCALE: 1" = 1'-0"



2 A7.0 SECTION at APPARATUS ROOM BEARING SIDEWALL

SCALE: 1" = 1'-0"



3 A7.0 SECTION at APPARATUS ROOM SLIDE SHAFT

SCALE: 1" = 1'-0"

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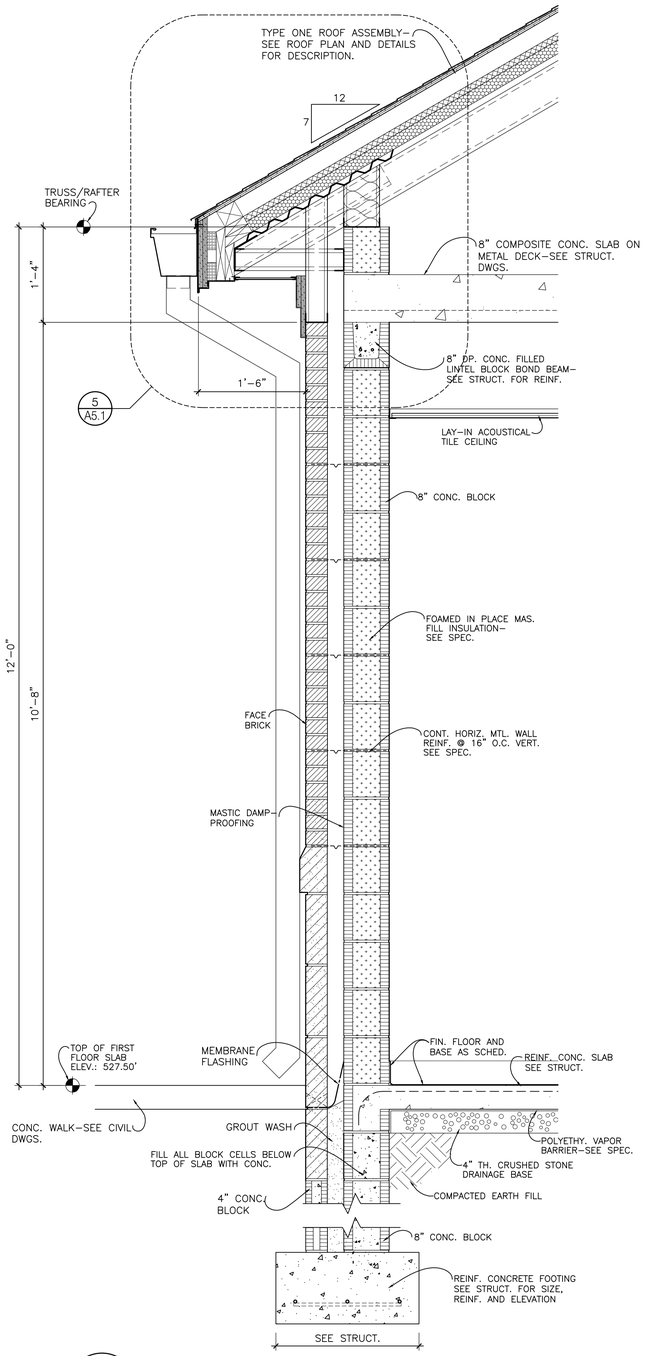
WALL SECTIONS

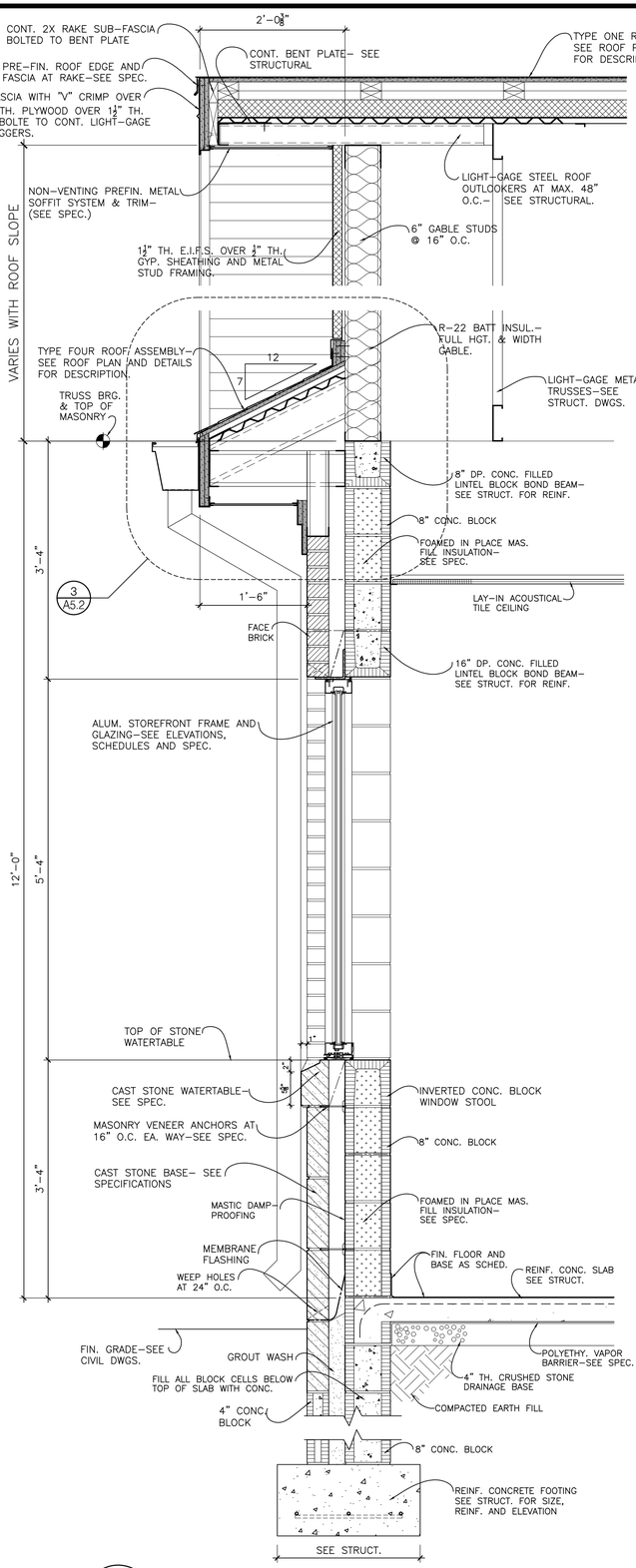
SHEET ONE

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A7.0 WALL SECTIONS
JOB NO.	23-03
REVISIONS	

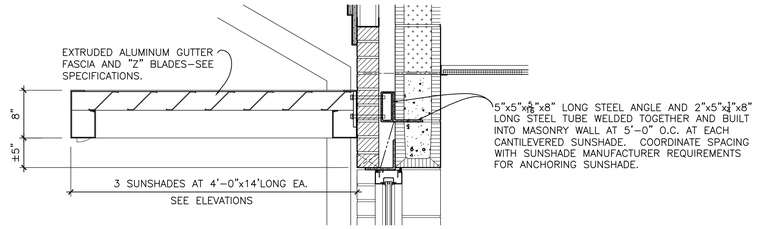
SHEET A7.0 OF 23 SHEETS



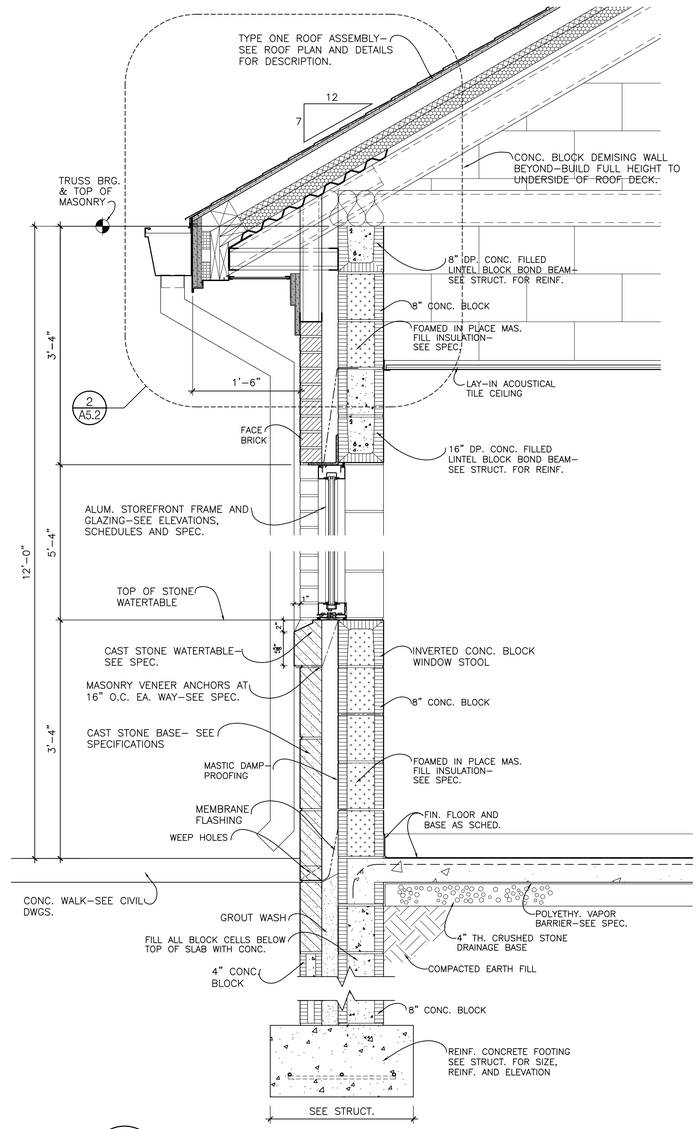
1 A7.1 SECTION at F.D. ADMIN. BEARING WALL
SCALE: 1" = 1'-0"



2 A7.1 SECTION at G.P.D. PRECINCT ENDWALL
SCALE: 1" = 1'-0"



4 A7.1 SECTION thru CANTILEVERED SUNSHADE
SCALE: 1" = 1'-0" SEE 3/A7.1 BELOW FOR NOTES ABOVE and BELOW THIS DETAIL



3 A7.1 SECTION at G.P.D. BEARING WALL
SCALE: 1" = 1'-0"

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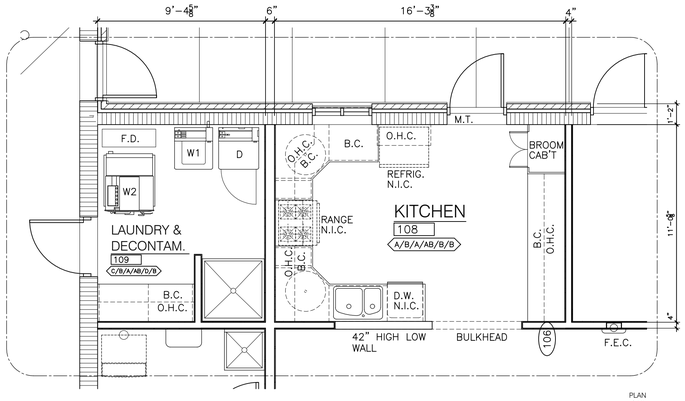
WALL SECTIONS

SHEET TWO

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A7.1 WALL SECTIONS
JOB NO.	23–03
REVISIONS	

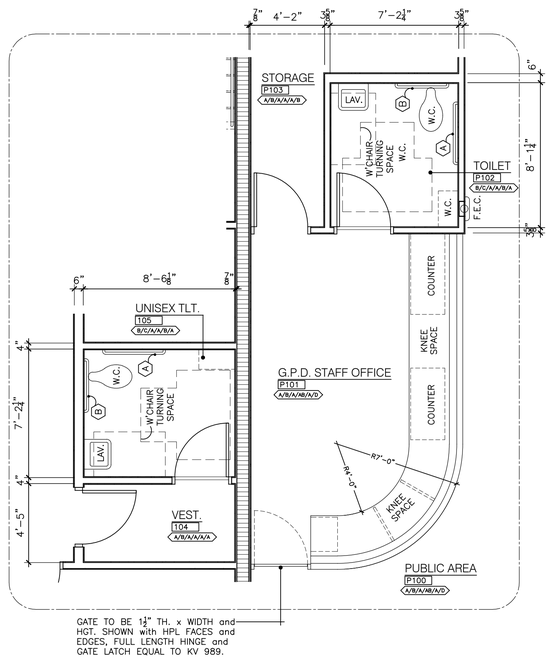
SHEET A7.1 OF 23 SHEETS



LARGE SCALE LAUNDRY/KITCHEN PLANS

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

PLAN NORTH

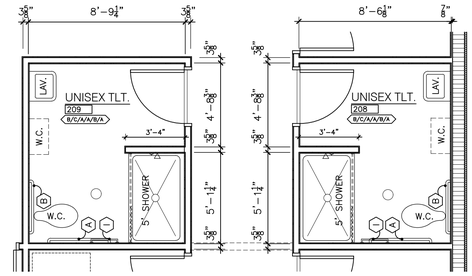


GATE TO BE 1½" TH. x WIDTH and HGT. SHOWN with HPL FACES and EDGES, FULL LENGTH HINGE and GATE LATCH EQUAL TO KV 989.

L.S. 1st FLOOR UNISEX TOILETS and PRECINCT COUNTER

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

PLAN NORTH



LARGE SCALE DORMITORY TOILETS/SHOWERS

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

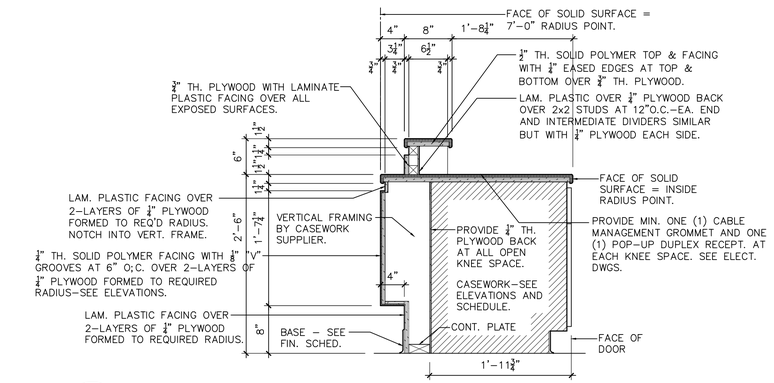
PLAN NORTH

SCHEDULE of TOILET ACCESSORIES				
MARK	ITEM	MFR.	NO.	MOUNTING HEIGHTS
A	GRAB BARS AT SIDE WALL OF WATER CLOSETS	BOBRICK	B-6806 x42"	33" TO CENTERLINE A.F.F.
B	GRAB BARS AT REAR WALL OF WATER CLOSETS	BOBRICK	B-6806 x36"	33" TO CENTERLINE A.F.F.
C	TISSUE PAPER DISPENSER	BY OWNER		AS DIRECTED BY ARCHITECT
D	PAPER TOWEL DISPENSER	BY OWNER		AS DIRECTED BY ARCHITECT
E	SINGLE FEMININE NAPKIN DISPOSAL UNIT	BOBRICK	B-254	30" TO TOP OF UNIT A.F.F.
F	SHOWER CURTAIN ROD	BOBRICK	B-6107 60"	6'-6" TO CENTERLINE A.F.F.
G	SHOWER CURTAIN & HOOKS	BOBRICK	204-2 & 204-1	SUSPEND FROM ITEM "F" ABOVE
H	SHELF W/ MOP & BROOM HOLDERS	BOBRICK	B-239x34	5'-9" TO TOP OF SHELF A.F.F.
I	SURFACE-MOUNTED TOWEL BAR	BOBRICK	B-205 18"	4'-0" TO CENTERLINE A.F.F.
J	MIRROR 18"x36"	BOBRICK	B-165 18"x36"	40" TO BOTTOM OF MIRROR A.F.F.

SCHEDULE of CASEWORK (DENOTED BY SYMBOL "□")		
ITEM#	ITEM	DESCRIPTION
1	WALL CABINET	Single door wall cabinet (right-or left-hand as shown). Nom. 30"h x 14"dp. x width as shown. Two (2) adjustable shelves.
2	WALL CABINET	Double door wall cabinet. Nom. 30"h x 14"dp. x width as shown. Two (2) adjustable shelves.
3	WALL CABINET	Double door wall cabinet. Nom. 12"h x 14"dp. x width shown. No shelves.
4	ALL DRAWER BASE CABINET	Nom. 36"h x 24"dp. x width as shown all drawer base cabinet. HPL Built-up countertop with Nom. 1 1/2" Self-edge and 4' high backsplash.
5	SINK BASE CABINET	Nom. 36"h x 24"dp. x width as shown double door sink base cabinet with false front above doors. HPL Buildup countertop with Nom. 1 1/2" Self-edge with 4" high backsplash. See Elevations.
6	BASE CABINET CABINET	Double door base cabinet. Nom. 36"h x 24"dp. x width as shown. One (1) adjustable shelf. HPL Buildup countertop with Nom. 1 1/2" Self-edge and 4" high backsplash.
7	BASE CABINET WITH DRAWER	Nom. 36"h x 24"dp. x width as shown double door base cabinet. Two (2) drawers and one (1) adjustable shelf. HPL Buildup countertop with Nom. 1 1/2" Self-edge with 4" high backsplash. See Elevations.
8	CORNER BASE CABINET	Nom. 36"w x 36"h x 36"dp. diagonal corner base cabinet with right or left hinged door and two (2) revolving polymer shelves. HPL Built-up countertop with Nom. 1 1/2" Self-edge with 4" high backsplash.
9	TALL CABINET	Nom. 36"w x 84"h x 24"dp. double door tall cabinet with one (1) fixed shelf. Noted as Broom Cabinet on Floor Plan.
10	TALL CABINET	Nom. 18"w x 84"h x 17"dp. single door tall cabinet with one (1) fixed shelf, one (1) hanging rod and two (2) drawers. Provide locks on all door and drawers. Noted as W.U. on Floor Plan.
11	BASE CABINET WITH DRAWER	Nom. 30"h x 24"dp. x width as shown double door base cabinet. Two (2) drawers and one (1) adjustable shelf. HPL Buildup countertop with Nom. 1 1/2" Self-edge with No backsplash. See Elevations and Detail 1/8.0.
12	BASE CABINET WITH DRAWER	Nom. 30"h x 24"dp. x width as shown single door base cabinet. One (1) drawer and one (1) adjustable shelf. HPL Buildup countertop with Nom. 1 1/2" Self-edge with No backsplash. See Elevations and Detail 1/8.0.

CASEWORK NOTES:

RUBBER BASE OR WOOD BASE (AS SCHEDULED FOR ROOM) SHALL BE INSTALLED AROUND EXPOSED BASE OF ALL CASEWORK. ALL DOORS AND DRAWERS SCHEDULED TO HAVE LOCKS SHALL BE KEYED IN GROUPS OR SEPARATELY, AS DETERMINED BY THE OWNER.



1 A8.0 TYPICAL SECTION thru G.P.D. PRECINCT COUNTER

SCALE: 1"=1'-0"

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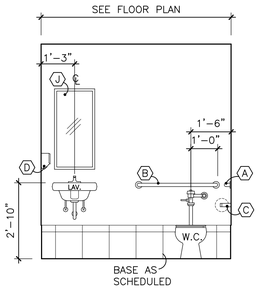
LARGE SCALE PARTIAL PLANS & SCHEDULES

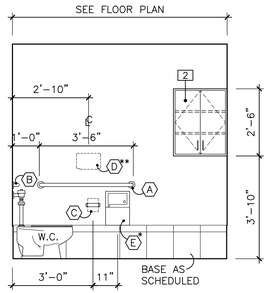
DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A8.0_LS Plans.dwg
JOB NO.	23-03
REVISIONS	

SHEET A8.0 OF 23 SHEETS



W. WALL UNISEX TOILET 105

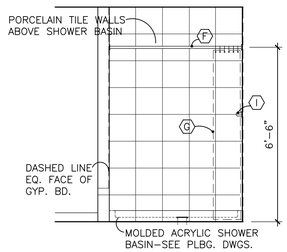
N. WALL UNISEX TOILET P102



TYP. SIDE WALL ELEV. @

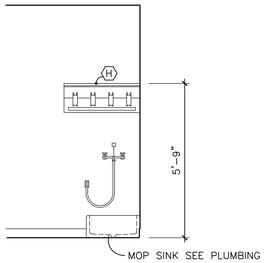
UNISEX TOILET 105 and P102

** ITEM MOUNTED ON OPPOSITE WALL.

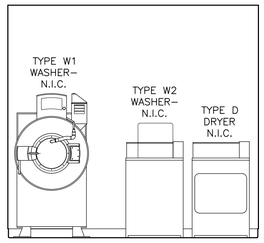


E. WALL UNISEX TOILET 209

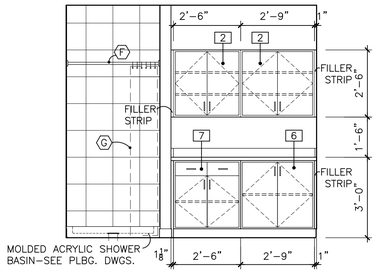
WEST WALL UNISEX TOILET 208 SIM. but OPP. HAND.



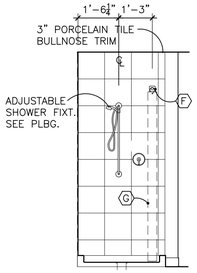
PARTIAL N. WALL UTILITY 110



N. WALL LAUNDRY & DECONTAM. 109



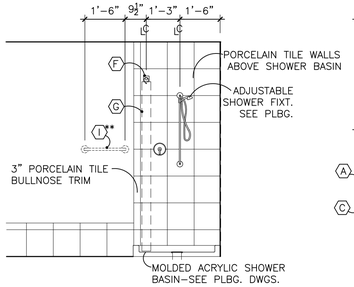
S. WALL LAUNDRY & DECONTAM. 109



W. WALL SHOWER

UTILITY 110 and LAUNDRY/DECONTAMINATION 109 ELEVATIONS

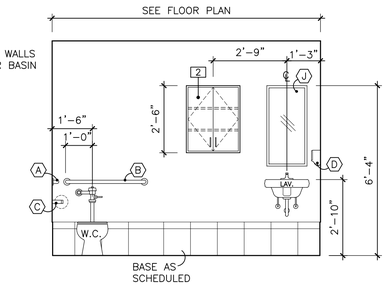
SCALE: 3/8" = 1'-0"



N. WALL UNISEX TOILET 209

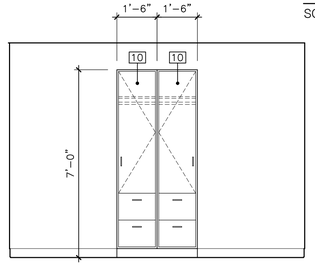
N. WALL UNISEX TOILET 208 SIM. but OPP. HAND.

** ITEM MOUNTED ON OPPOSITE WALL.



W. WALL UNISEX TOILET 209

E. WALL UNISEX TOILET 208 SIM. but OPP. HAND.



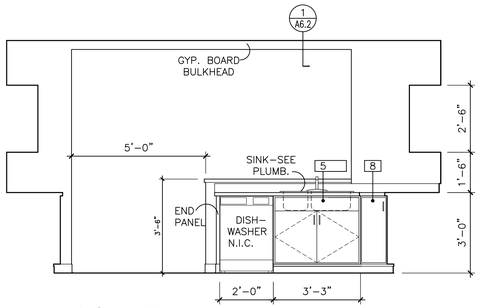
WARDROBE (W.U.) UNIT

UNISEX TOILET and BATH ELEVATIONS

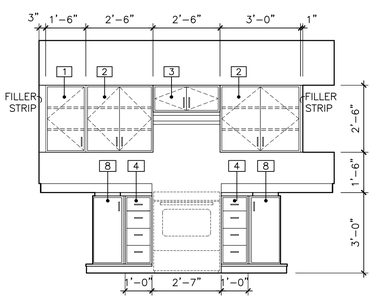
SCALE: 3/8" = 1'-0"

TYP. BUNK ROOM WARDROBE UNIT

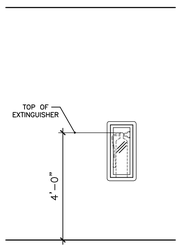
SCALE: 3/8" = 1'-0"



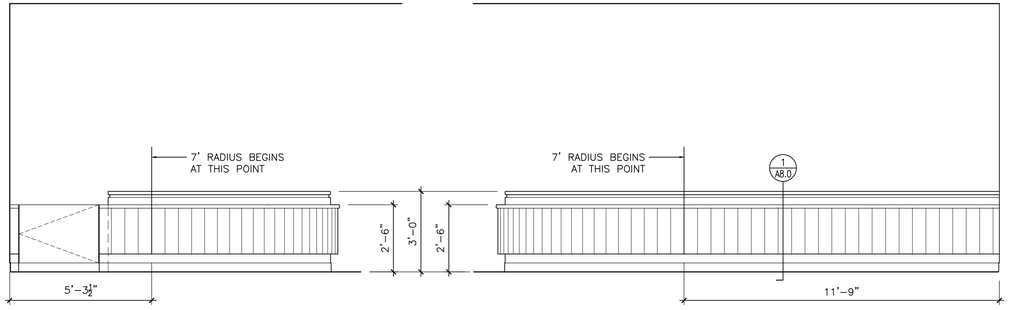
W. WALL KITCHEN 108



W. WALL KITCHEN 108

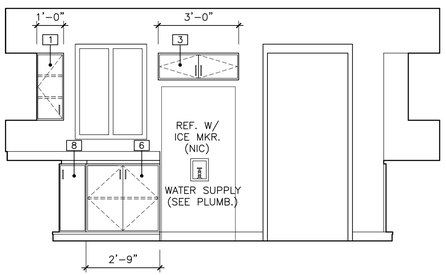


TYP. F.E.C. MOUNTING HGT.

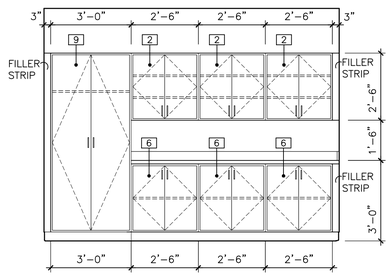


SOUTH SIDE COUNTER G.P.D. P101

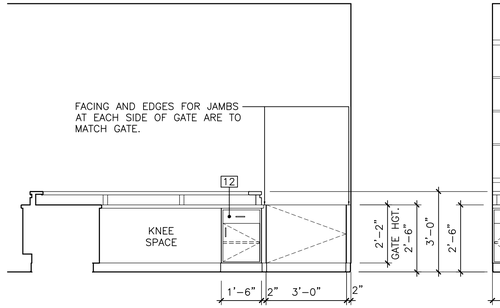
EAST SIDE COUNTER G.P.D. P101



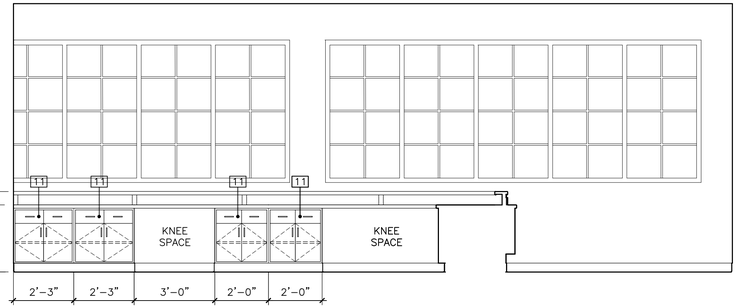
N. WALL KITCHEN 108



E. WALL KITCHEN 108



NORTH SIDE COUNTER G.P.D. P101



WEST SIDE COUNTER G.P.D. P101

KITCHEN 108 ELEVATIONS

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

POLICE PRECINCT COUNTER ELEVATIONS

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

STATE OF ALABAMA
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GADSDEN, ALABAMA
REGISTERED ARCHITECT

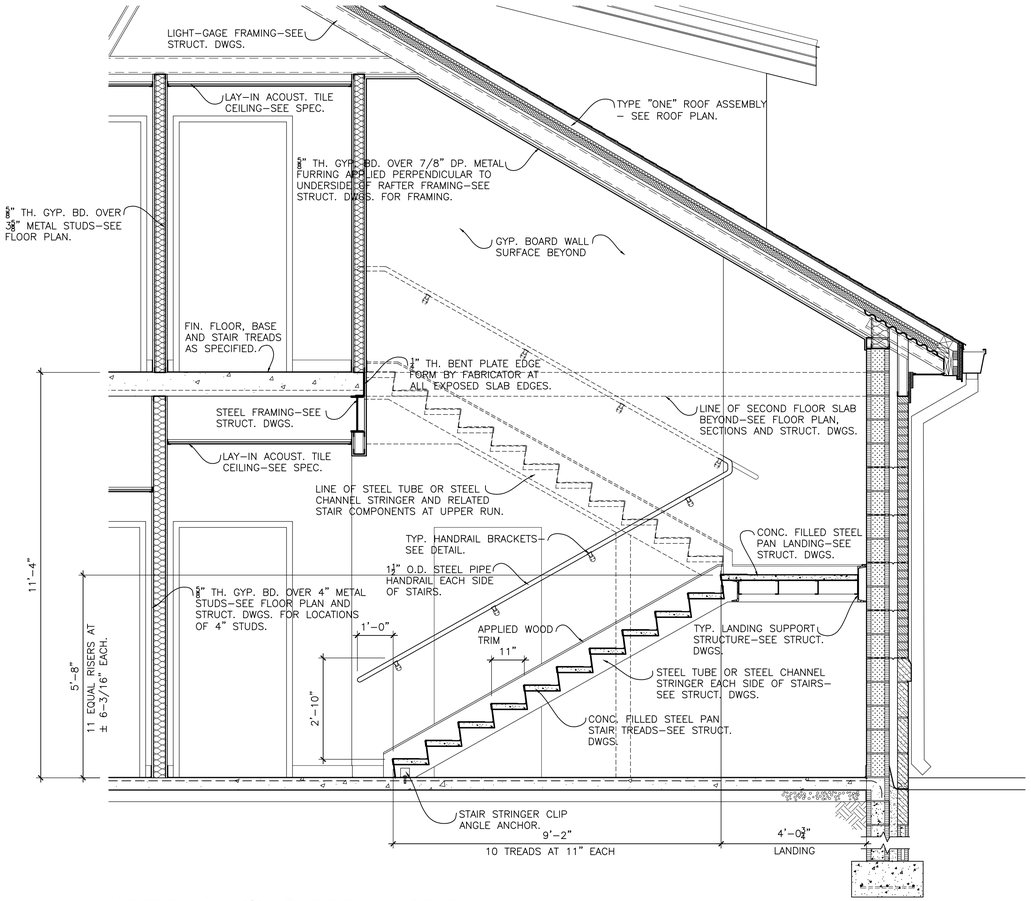
THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

INTERIOR ELEVATIONS

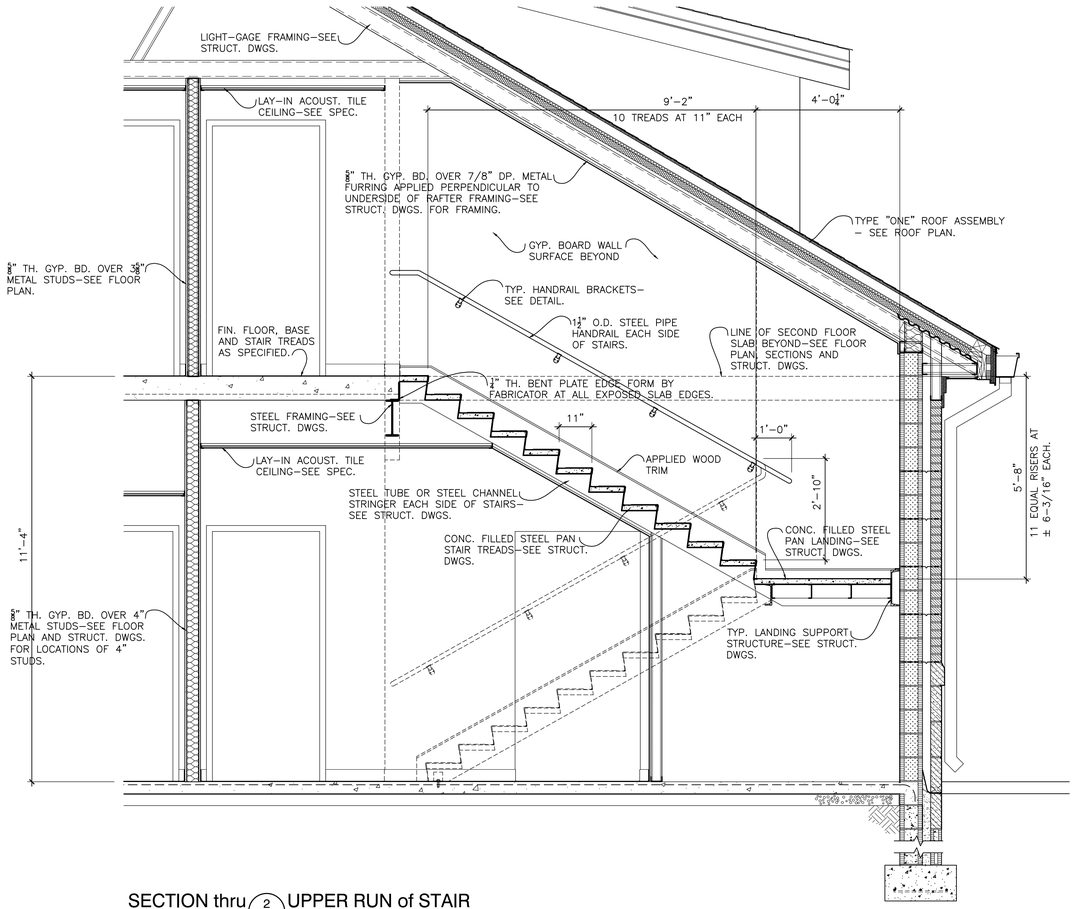
DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A8.1_Int Elev.dwg
JOB NO.	23-03
REVISIONS	

SHEET A8.1 OF 23 SHEETS



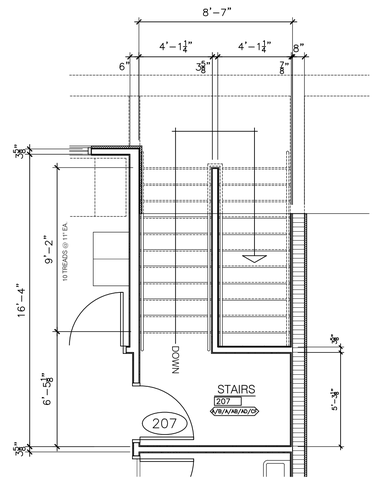
SECTION thru (1/A8.2) LOWER RUN of STAIR

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



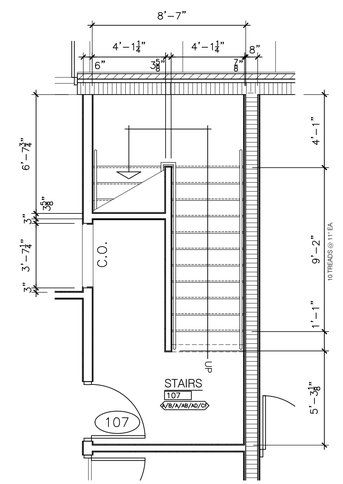
SECTION thru (2/A8.2) UPPER RUN of STAIR

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



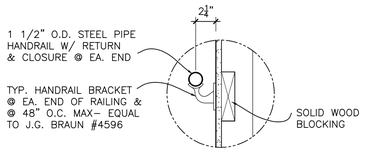
LARGE SCALE STAIR PLAN UPPER RUN

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



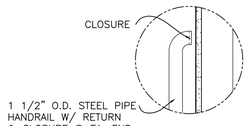
LARGE SCALE STAIR PLAN LOWER RUN

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



(3/A8.2) TYP. HANDRAIL BRACKET DETAIL

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



(4/A8.2) TYP. HANDRAIL RETURN DETAIL

SCALE: 1 1/2" = 1'-0" OCCURS AT ENDS OF WALL MTD. HANDRAILS

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EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
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for the
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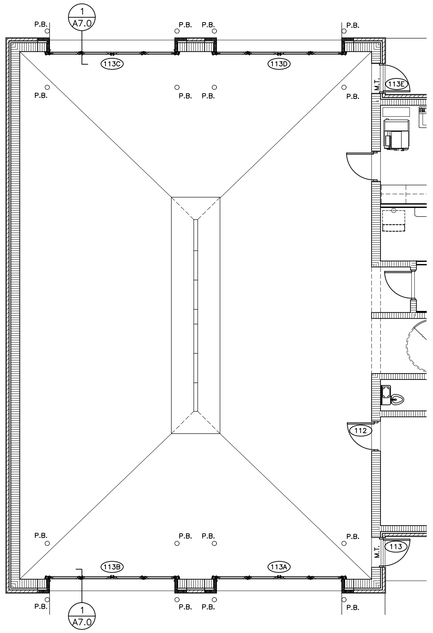
STAIR PLANS and SECTIONS

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A8.1_Int Elev.dwg
JOB NO.	23-03
REVISIONS	

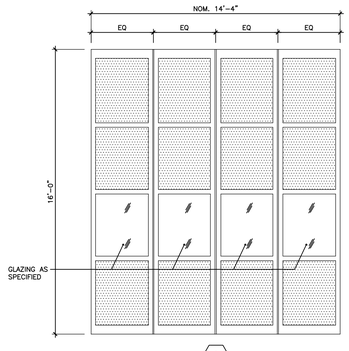
SHEET A8.2 OF 23 SHEETS



PARTIAL FLOOR PLAN

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

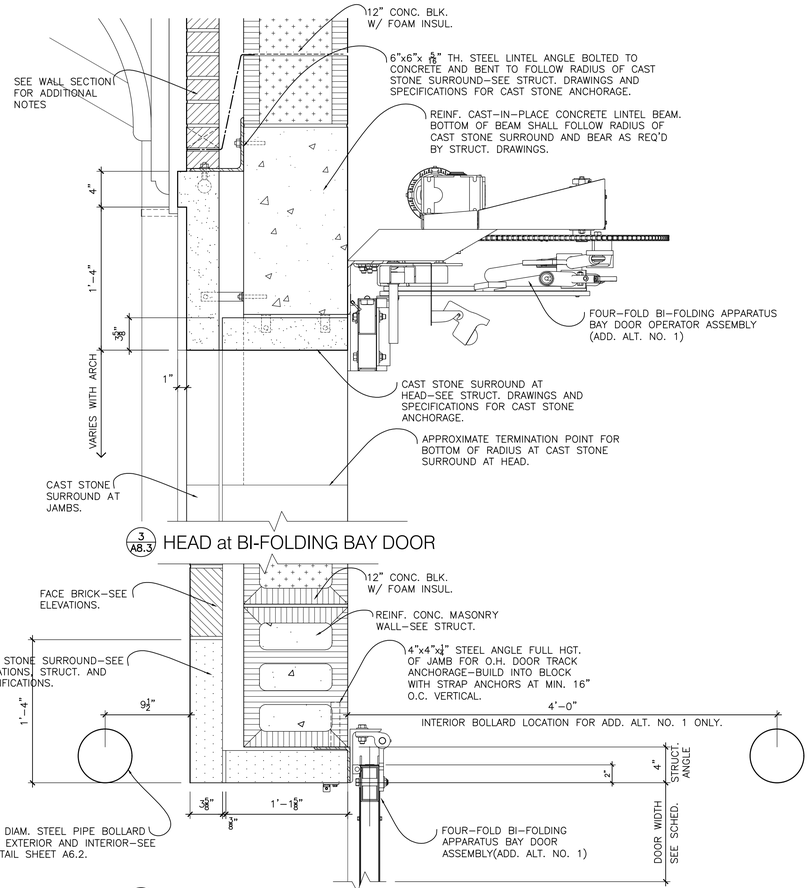
PLAN NORTH



FOUR-FOLD BI-FOLD DOOR AS SPECIFIED

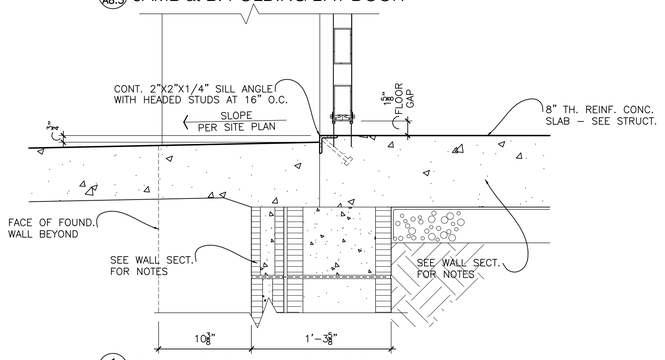
ADD. ALT. BI-FOLD DOOR

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



3/A8.3 HEAD at BI-FOLDING BAY DOOR

2/A8.3 JAMB at BI-FOLDING BAY DOOR

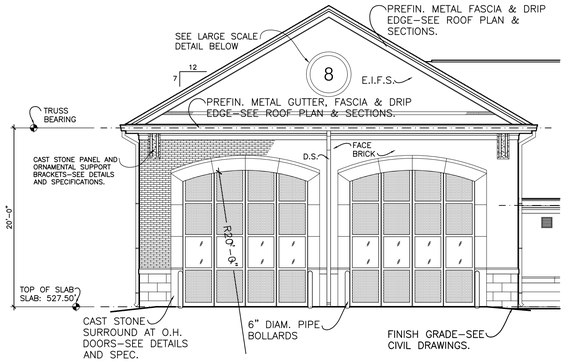


1/A8.3 SILL at SECTIONAL O.H. DOOR

FRAME DETAILS at BI-FOLDING BAY DOORS

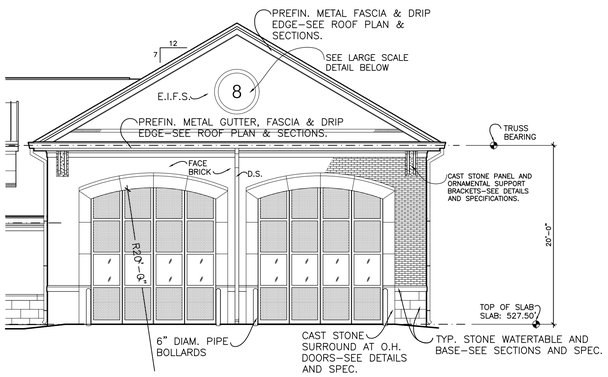
SC: 1 1/2" = 1'-0"

NOTE: COORD. W/ FLOOR PLAN & SCHED. FOR FIRE RATED MAT'L



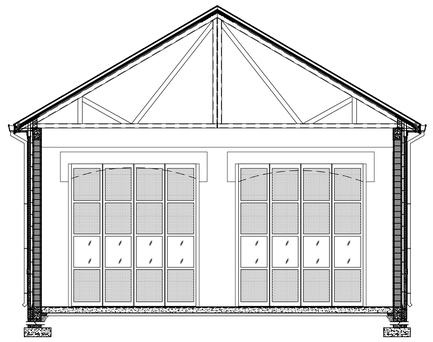
SOUTH (FRONT) ELEVATION

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



NORTH (REAR) ELEVATION

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



TYP. INTERIOR ELEV. of BI-FOLD DOORS

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

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located at
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ADDITIVE ALTERNATE BI-FOLDING BAY DOORS

DRAWN	TMM
CHECKED	TMM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	A2.1_Floor Plan.dwg
JOB NO.	23-03
REVISIONS	

SHEET A8.3 OF 23 SHEETS

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE BETWEEN ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DRAWINGS:

   A. ANY DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS OF DIFFERENT DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH SHOP DRAWING PREPARATION OR ANY CONSTRUCTION UNTIL THE ARCHITECT HAS GIVEN DIRECTION OF RESOLUTION FOR THE DISCREPANCY OR CONFLICT.

   B. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE AND VERIFY THE LOCATIONS AND SIZES OF CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS AT FLOORS, WALLS, AND ROOFS BETWEEN DRAWINGS OF DIFFERENT DISCIPLINES.

2. IN THE CASE OF INCONSISTENCIES BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, A BIDDER WILL BE DEEMED TO HAVE INCLUDED IN ITS BID THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK INVOLVED UNLESS THE BIDDER ASKED FOR AND OBTAINED THE ARCHITECT'S WRITTEN CLARIFICATION OF THE REQUIREMENTS BEFORE SUBMISSION OF BID.

3. ALL DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS. DO NOT SCALE THE DRAWINGS.

4. THE DETAILS PROVIDED ON SHEETS LABELED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, UNLESS NOTED OTHERWISE.

5. ALL OF THE CONTRACTOR'S PROPOSED SUBSTITUTIONS ARE CONSIDERED CHANGE ORDERS AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND/OR APPROVAL PRIOR TO ANY PERTINENT WORK OR FABRICATION.

6. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION, NEW AND EXISTING, AT ALL STAGES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

   A. BRACE ALL BASEMENT-TYPE WALLS RETAINING EARTH UNTIL RESTRAINING SLABS/FLOORS HAVE BEEN INSTALLED AND REACHED REQUIRED DESIGN STRENGTH.

   B. BRACE/SHORE ALL WALLS AS REQUIRED TO MAINTAIN STABILITY DURING CONSTRUCTION.

   C. SHORE EXISTING FLOORS, WALLS, AND/OR ROOFS AS REQUIRED DURING DEMOLITION OF ANY PORTION OF EXISTING STRUCTURE UNTIL NEW SUPPORT FRAMING HAS BEEN INSTALLED.

7. ALL STRUCTURAL MEMBERS, AS SHOWN, HAVE BEEN DESIGNED TO CARRY IN PLACE DESIGN LOADS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ANY LOADS AND FORCES IMPOSED DURING CONSTRUCTION, TRANSPORTATION, ERECTION, AND HANDLING. THE CONTRACTOR SHALL INSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT IMPOSED ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT CONCRETE REACHES THE FULL SPECIFIED DESIGN STRENGTH, STEEL MEMBERS AND THEIR CONNECTIONS ARE FULLY BOLTED AND / OR WELDED AND ALL OTHER FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.

8. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO ANY PERTINENT WORK OR FABRICATION. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE SHOP DRAWINGS.

9. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.

10. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED.

SHOP DRAWINGS/SUBMITTALS:

1. SHOP DRAWING SUBMITTAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND SHALL FOLLOW INDUSTRY GUIDELINES AND STANDARDS.

2. ALL QUESTIONS, CLARIFICATIONS, OR MODIFICATIONS OF THE CONTRACT DOCUMENTS SHALL BE CLEARLY DOCUMENTED AND INDICATED ON THE SHOP DRAWING TRANSMITTAL OR COVER SHEET. ITEMS SHALL NOT BE CONSIDERED APPROVED UNLESS SPECIFICALLY ADDRESSED BY MBA IN THE REVIEW COMMENTS.

3. ALL SHOP DRAWINGS ARE TO BE NEWLY PREPARED. REPRODUCTIONS OF CONTRACT STRUCTURAL DRAWINGS FOR USE AS ERECTION DRAWINGS WILL NOT BE PERMITTED. SHOULD SHOP DRAWING SUBMITTALS CONTAIN ANY REPRODUCTIONS OF CONTRACT STRUCTURAL DRAWINGS, THEY WILL BE REJECTED AND RETURNED WITHOUT ENGINEER REVIEW.

   A. MBA MAY CONSIDER TRANSFERRING COMPUTER FILES, IN THE FORMAT CREATED, OF THE PLAN SHEETS TO PROJECT SUBCONTRACTORS TO ASSIST IN DEVELOPING SHOP DRAWINGS ON A CASE BY CASE BASIS. A SIGNED FILE TRANSFER AGREEMENT WILL BE REQUIRE PRIOR TO RELEASE OF MBA FILES.

4. CONTRACTOR TO REVIEW ALL SHOP DRAWING SUBMITTALS AND STAMP WITH APPROVAL PRIOR TO SUBMISSION TO ARCHITECT/ ENGINEER. ***SHOP DRAWINGS RECEIVED BY ARCHITECT/ENGINEER THAT HAVE NOT BEEN REVIEWED AND COORDINATED BY THE CONTRACTOR WILL BE RETURNED WITHOUT ARCHITECT/ENGINEER'S REVIEW***. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRECTING DIMENSIONS WHICH PERTAIN TO FABRICATION PROCESSES OR CONSTRUCTION TECHNIQUES PRIOR TO SUBMITTAL AND FOR COORDINATION OF WORK OF ALL TRADES.

5. CONTRACTOR MAY PROVIDE REVIEWED AND APPROVED SUBMITTALS IN AN ELECTRONIC .PDF FORMAT FOR ENGINEER REVIEW AND APPROVAL. IN LIEU OF ELECTRONIC SUBMITTALS, CONTRACTOR MAY PROVIDE NO MORE THAN FOUR PAPER COPIES OF EACH STRUCTURAL SHOP DRAWING SUBMITTAL TO THE ENGINEER. THE STRUCTURAL ENGINEER WILL REVIEW AND RETURN TWO OF THE COPIES TO THE ARCHITECT. ADDITIONAL COPIES REQUIRED BY THE CONTRACTOR SHALL BE MADE BY THE CONTRACTOR AFTER THE REVIEW PROCESS.

6. MBA REVIEW OF SHOP DRAWING SUBMITTALS IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. REVIEW AND/OR APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FOR ERRORS/ OMISSIONS IN THE SHOP DRAWINGS.

7. RESUBMITTED SHOP DRAWINGS SHALL HAVE CHANGES AND/OR ADDITIONS CLEARLY INDICATED. REVIEW OF RESUBMITTED SHOP DRAWINGS IS LIMITED TO THE ITEMS REQUIRING CORRECTION ON THE PREVIOUS SUBMITTAL.

EQUIPMENT NOTES:

1. CONTRACTOR SHALL COORDINATE BETWEEN DRAWINGS TO VERIFY ALL EQUIPMENT WEIGHTS, LOCATIONS, AND/OR PENETRATIONS. THIS INFORMATION SHALL BE PROVIDED TO SUBCONTRACTORS PERFORMING DELEGATED DESIGN AND SHALL BE IDENTIFIED ON THE CORRESPONDING SUBMITTAL.

2. EQUIPMENT LOADS CONSIDERED IN THIS DESIGN ARE SHOWN ON PLANS THUSLY (1400#). THE STRUCTURAL ENGINEER SHALL BE NOTIFIED AND ALLOWED TO MODIFY THE DESIGN AS REQUIRED IF FINAL EQUIPMENT WEIGHTS ARE HEAVIER OR THE EQUIPMENT LAYOUT DIFFERS FROM THE APPROXIMATE LAYOUT SHOWN ON THE PLAN.

3. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S CERTIFIED DRAWINGS, SPECIFICATIONS AND/OR OTHER REQUIREMENTS FOR ATTACHING THE EQUIPMENT TO THE STRUCTURE. IF STRUCTURAL MEMBERS CONFLICT WITH ATTACHMENT, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED AND ALLOWED TO MODIFY THE DESIGN AS REQUIRED TO ACCOMMODATE THE MANUFACTURER'S REQUIREMENTS.

SITE AND FOUNDATION:

1. THE DESIGN OF FOUNDATIONS AND RELATED COMPONENTS IS BASED ON THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY CDG ENGINEERS & ASSOCIATES, INC., PROJECT NO. R628123008, DATED 06/23/2023. THE GENERAL CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS AND RECOMMENDATIONS IN THE REPORT.

2. ALLOWABLE SOIL BEARING PRESSURES (PSF):

ISOLATED FOOTINGS	2500
CONTINUOUS FOOTINGS	2500

3. EXCAVATE, WHERE REQUIRED, TO BUILDING AND STRUCTURE SUBGRADE.

4. PROOF-ROLL THE AREA UNDER THE BUILDING, PLUS 5'-0" ON ALL SIDES, WITH A LOADED DUMP TRUCK TO LOCATE ANY SOFT AREAS. A GEOTECHNICAL ENGINEER IS TO BE PRESENT DURING THIS OPERATION. ANY SOFT AREAS DETECTED ARE TO BE UNDERCUT AND REPLACED WITH ENGINEERED FILL.

5. ACCEPTABLE FILL MATERIAL SHALL BE FREE OF ORGANICS, AND HAVE A P.I. OF LESS THAN 25, L.L. OF LESS THAN 50 AND A MAXIMUM DRY DENSITY OF GREATER THAN 100 PCF. CRUSHED STONE BACKFILL TO MEET REQUIREMENTS OF A.H.D. No. 57 STONE. DRAINAGE FILL SUPPORTING SLABS SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.

6. FILL, WHERE REQUIRED, IS TO BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 98% STANDARD PROCTOR (ASTM D-698), WITHIN ±2% OF OPTIMUM MOISTURE CONTENT.

7. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE FINAL FOUNDATION DESIGN TO VERIFY THAT ALL FOUNDATION SYSTEMS, INCLUDING SLAB ON GRADE DESIGN AND DETAILING, COMPLIES WITH THE GEOTECHNICAL PARAMETERS INCLUDED IN THE GEOTECHNICAL REPORT. WRITTEN VERIFICATION OF THIS REVIEW SHALL BE SUBMITTED TO THE ARCHITECT TWO WEEKS BEFORE FINAL PRICING/BID DATE.

CONCRETE:

1. CONCRETE CONSTRUCTION AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH CURRENT ACI STANDARDS.

2. CONCRETE SCHEDULES

ITEM		28 DAY COMPRESSIVE STRENGTH
A.	CONCRETE SLAB ON COMPOSITE METAL DECK	4000 PSI NORMAL WEIGHT
B.	CONCRETE IN CMU CELLS	3000 PSI GROUT
C.	ALL OTHER CONCRETE	3000 PSI NORMAL WEIGHT

3. CONCRETE COVER OVER REINFORCING (UNO)

A.	UNFORMED SURFACE IN CONTACT WITH EARTH:	3 IN.
B.	UNFORMED SURFACE OVER VAPOR BARRIER:	2 IN.
C.	FORMED SURFACES EXPOSED TO EARTH OR WEATHER	
	#6 AND LARGER	2 IN.
	#5 AND SMALLER	1 1/2 IN.
D.	FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:	
	WALLS, SLABS:	3/4 IN.
	COLUMNS, BEAMS:	1 1/2 IN. TO TIES

4. CONCRETE AT SLABS ON GRADE SHALL HAVE A NOMINAL MAXIMUM COARSE AGGREGATE SIZE OF 3/4 INCH. ADJUST PORTIONS OF COMBINED COARSE, INTERMEDIATE AND FINE AGGREGATES TO PROVIDE A COARSENESS FACTOR OF 60 TO 75%.

5. ALL REINFORCING SHALL CONFORM TO THE LATEST REVISION OF ASTM SPECIFICATION A615, GRADE 60 AND BE DETAILED IN ACCORDANCE WITH THE LATEST REVISION OF ACI STANDARD 315.

6. ALL WELDED WIRE REINFORCING (W.W.R.) SHALL CONFORM TO ASTM A-185. WELDED WIRE REINFORCING SHALL BE LAPPED A MINIMUM OF 1'-0" AND SHALL BE FURNISHED IN SHEETS ONLY (NO ROLLS).

7. NO REINFORCING BAR SHALL BE WELDED IN ANY MANNER, UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS.

8. CONTINUOUS FOOTING REINFORCING BARS SHALL BE LAPPED 30 BAR DIAMETERS, BUT NOT LESS THAN 1'-0".

9. GRADE BEAM, ELEVATED BEAM, AND ELEVATED SLAB REINFORCING BARS SHALL BE SPLICED ONLY AS SHOWN ON THE DRAWINGS, EXCEPT THE REINFORCING DESIGNATED AS "CONTINUOUS" SHALL HAVE A CLASS "B" LAP SPLICE (PER ACI 318). LAP SPLICES OF CONTINUOUS REINFORCING SHALL BE MADE OVER SUPPORTS FOR BOTTOM BARS AND FOR INTERMEDIATE BARS AND AT MID-SPAN FOR TOP BARS. AT EXTERIOR SUPPORTS, TOP AND BOTTOM BARS SHALL BE HOOKED AND INTERMEDIATE BARS SHALL EXTEND TO WITHIN 2" OF EXTERIOR FACE.

10. COLUMN AND WALL VERTICAL REINFORCING BARS SHALL BE LAPPED WITH A CLASS "B" SPLICE. WALL HORIZONTAL REINFORCING BARS SHALL BE LAPPED WITH A CLASS "B" TOP BAR SPLICE AT SPLICE POINTS. PROVIDE CORNER BARS FOR WALLS.

11. PROVIDE FULL EMBEDMENT FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, DOWEL SIZE AND SPACING SHALL BE THE SAME AS MAIN REINFORCING.

12. CONSTRUCTION JOINTS IN CONCRETE BEAMS AND SLABS SHALL BE AT OR NEAR MIDSPAN. ALL CONSTRUCTION JOINTS TO BE KEYED.

13. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN WALLS AND BEAMS, UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

14. CONDUIT, PIPES, AND SLEEVES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER, NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, WALL OR BEAM IN WHICH THEY ARE EMBEDDED, AND SHALL HAVE A MINIMUM COVER OF 1 1/2 INCH FOR CONCRETE EXPOSED TO EARTH OR WEATHER AND 3/4 INCH FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER.

15. PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.

16. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, SHOP DRAWINGS FOR ALL REINFORCING BARS INCLUDING DETAILS AT ALL OPENINGS AND ASSOCIATED ADDED REINFORCEMENT AS SHOWN ON TYPICAL DETAILS.

CONCRETE MASONRY:

1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1 SPECIFICATION OR TMS 402/602.

2. MASONRY COMPRESSIVE STRENGTH (f'm) SHALL BE 1900 PSI BASED ON THE UNIT STRENGTH METHOD OR VERIFIED BY PRISM TESTS IN ACCORDANCE WITH ASTM C 1314.

3. MORTAR SHALL BE TYPE S OR M.

4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

5. NO REINFORCING BAR SHALL BE WELDED IN ANY MANNER, UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS.

6. BLOCK FILL SHALL BE GROUT WITH AN 8" TO 11" SLUMP, PROPORTIONED PER ASTM C 476 OR ATTAINING 3000 PSI AT 28 DAYS PER ASTM C 1019. DO NOT USE MORTAR AS BLOCK FILL.

7. ALL GROUT SHALL BE CONSOLIDATED AT TIME OF PLACEMENT USING A LOW-VELOCITY MECHANICAL VIBRATOR WITH A 3/4-INCH HEAD. RE-CONSOLIDATE GROUT AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. DO NOT PLACE NEXT LIFT OF GROUT UNTIL LOWER LIFT HAS BEEN RE-CONSOLIDATED.

8. ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE GROUTED SOLID. ALL LINTELS & BOND BEAMS SHALL BE GROUTED SOLID.

9. ALL BLOCK CELLS WHICH HAVE VERTICAL REINFORCING SHALL BE GROUTED FULL-HEIGHT IN 5'-0" LIFTS (MAXIMUM HEIGHT). PROVIDE 1 1/2" (MINIMUM) GROUT KEY BELOW MORTAR JOINT AT TOP OF EACH LIFT.

10. VERTICAL REINFORCING SHALL BE DOWELED TO FOOTING WITH HOOKED BARS AT THE BASE AND EXTEND FULL-HEIGHT INTO BOND BEAM AT THE TOP. WHERE SPLICES ARE NECESSARY, PROVIDE LAP LENGTH = 48 BAR DIAMETERS.

11. VERTICAL REINFORCING SHALL BE LOCATED IN THE CENTER OF THE BLOCK CELLS, UNLESS NOTED, AND SHALL BE HELD IN PLACE WITH BAR POSITIONERS (HECKMANN #376 OR HOHMANN & BARNARD #RB) PRIOR TO GROUTING. "WET-STICKING" OF REINFORCING SHALL NOT BE ALLOWED.

12. MINIMUM VERTICAL WALL REINFORCING IN ALL WALLS SHALL CONSIST OF ONE VERTICAL (MATCHING WALL REINF. BUT NOT LESS THAN #5) IN EACH CORNER, AT EACH DOOR & WINDOW JAMB & AT EACH SIDE OF CONTROL AND/OR EXPANSION JOINTS. PROVIDE ADDITIONAL VERTICAL REINFORCING AS SHOWN IN SECTIONS AND AS NOTED ON PLANS.

13. AT CORNERS AND INTERSECTIONS OF BOND BEAMS IN WALLS, PROVIDE CORNER BARS (48 DIAMETERS LONG EA. LEG) TO TIE WALLS TOGETHER. BAR DIAMETER SHALL MATCH BOND BEAM REINFORCING.

14. AT TOP OF ALL MASONRY WALLS (BEARING OR NON-BEARING), PROVIDE 8" DEEP CONTINUOUS BOND BEAM REINFORCED WITH 2#5 CONTINUOUS, UNLESS NOTED OTHERWISE.

15. WHERE CMU IS PLACED IN A STACK BOND PATTERN, HORIZONTAL WALL REINFORCING SHALL CONSIST OF A MINIMUM STANDARD (9 GAGE) LADDER-TYPE JOINT REINFORCING AT EVERY COURSE (8" O.C.) FOR 12" CMU OR AT EVERY OTHER COURSE (16" O.C.) FOR 8" CMU. COORDINATE W/ ARCHITECTURAL DRAWINGS. WHERE CMU IS PLACED IN A RUNNING BOND PATTERN, HORIZONTAL WALL REINFORCING SHALL CONSIST OF A MINIMUM STANDARD (9 GAGE) LADDER-TYPE REINFORCING AT EVERY OTHER COURSE (16" O.C.).

16. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DETAILS AND LOCATIONS OF MASONRY CONTROL JOINTS. IF NOT OTHERWISE SHOWN, DO NOT EXCEED 30'-0" BETWEEN BLOCK WALL CONTROL JOINTS AND 20'-0" BETWEEN BRICK VENEER CONTROL JOINTS.

17. ANCHOR WALLS TO SUPPORTING STRUCTURES AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING OF ALL MASONRY WALLS DURING CONSTRUCTION.

18. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, SHOP DRAWINGS FOR ALL REINFORCING BARS INCLUDING DETAILS AT ALL OPENINGS AND ASSOCIATED ADDED REINFORCEMENT AS SHOWN ON TYPICAL DETAILS.

TENSION LAP SPLICE LENGTH

BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	A	B	A	B	A	B	A	B
#3	22"	28"	17"	22"	19"	24"	15"	19"
#4	29"	37"	22"	29"	25"	32"	19"	25"
#5	36"	47"	28"	36"	31"	40"	24"	31"
#6	43"	56"	33"	43"	37"	48"	29"	37"
#7	63"	81"	48"	63"	54"	70"	42"	54"
#8	72"	93"	55"	72"	62"	80"	48"	62"
#9	81"	105"	62"	81"	70"	91"	54"	70"
#10	91"	118"	70"	91"	79"	102"	61"	79"
#11	101"	131"	78"	101"	87"	113"	67"	87"

POST-INSTALLED ANCHORS:

1. ANCHOR CAPACITY USED IN DESIGN IS BASED UPON THE TECHNICAL DATA PUBLISHED BY THE MANUFACTURER. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED ON THE FOLLOWING; HAVING AN ICC-ES ESR OR IAPMO UES ER SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

2. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

3. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY USE OF HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS APPROVED BY THE ENGINEER OF RECORD. DO NOT CUT PRESTRESSED OR POST TENSIONED TENDONS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

4. INSTALL ANCHORS PER THE MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS.

5. UNLESS NOTED OTHERWISE, ALL ANCHORS TO BE INSTALLED WITH AN EMBEDMENT DEPTH EQUAL TO OR GREATER THAN MANUFACTURER STANDARD EMBEDMENT. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING A SYSTEM THAT IS APPROVED FOR SUCH INSTALLATIONS IN THE PRODUCT CODE REPORT.

6. THE CONTRACTOR SHOULD ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED.

7. UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, APPROVED ANCHORS ARE AS FOLLOWS:

   A. ANCHORAGE TO CONCRETE

      1. ADHESIVE ANCHORS FOR CONCRETE USE:
         a. SIMPSON STRONG-TIE AT-3G ADHESIVE ANCHORING SYSTEM WITH THREADED RODS (ICC-ES ESR 5026).
         b. SIMPSON STRONG-TIE SET-3G ADHESIVE ANCHORING SYSTEM WITH THREADED RODS (ICC-ES ESR-4057) FOR SLOW CURE APPLICATIONS.
         c. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH THREADED ROD (ICC-ES ESR-4868).
         d. HILTI HIT-RE 500-SD V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD (ICC-ES ESR-3814) FOR SLOW CURE APPLICATIONS.

      2. MECHANICAL ANCHORS FOR CONCRETE USE:
         a. SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-2713).
         b. SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC-ES ESR-3037).
         c. HILTI KWIK HUS-EZ AND KWIK HUS EZ-I SCREW ANCHORS (ICC-ES ESR-3027).
         d. HILTI KWIK BOLT-TZ2 EXPANSION ANCHORS (ICC-ES ESR-3814).

   B. REBAR DOWELING INTO CONCRETE

      1. ADHESIVE ANCHORS FOR CONCRETE USE:
         a. SIMPSON STRONG-TIE SET-3G ADHESIVE ANCHORING SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC-ES ESR-4057).
         b. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC-ES ESR-4868).
         c. SIMPSON STRONG-TIE AT-3G ADHESIVE ANCHORING SYSTEM W/ CONTINUOUSLY DEFORMED REBAR (ICC-ES ESR-5026).
         d. HILTI HIT-RE 500-SD V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC-ES ESR-3814).

   C. ANCHORAGE TO SOLID GROUTED MASONRY

      1. ADHESIVE ANCHORS USE:
         a. SIMPSON STRONG-TIE SET-3G ADHESIVE ANCHORING SYSTEM WITH THREADED ROD OR REBAR (ICC-ES ESR-4844).
         b. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR-4143. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.

      2. MECHANICAL ANCHORS USE:
         a. SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-1056).
         b. SIMPSON STRONG-TIE STRONG-BOLT 2 (IAPMO-UES ER-240).
         c. HILTI KWIK HUS-EZ SCREW ANCHOR (ICC-ES ESR-3056).
         d. HILTI KWIK BOLT-TZ2 EXPANSION ANCHORS (ICC-ES ESR-4266).

   D. ANCHORAGE TO UNREINFORCED MASONRY

      1. ADHESIVE ANCHORS USE:
         a. SIMPSON STRONG-TIE EG-3G (IAPMO UES ER-870 PENDING).
         b. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC-ES ESR-4143).
         c. STEEL ANCHOR ELEMENT SHALL BE CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.

STRUCTURAL STEEL:

1. DESIGN, CONSTRUCTION, QUALITY ASSURANCE, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CURRENT AISC STANDARDS.

2. ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992

3. ALL STRUCTURAL STEEL PLATES, ANGLES AND CHANNELS SHALL CONFORM TO ASTM A36.

4. ALL STRUCTURAL STEEL SQUARE, RECTANGULAR AND ROUND HSS SECTIONS SHALL CONFORM TO ASTM A500, GRADE B.

5. FABRICATION AND ERECTION SHALL CONFORM TO AISC CODE OF STANDARD PRACTICE.

6. ALL WELDING SHALL CONFORM TO AWS STANDARDS. THICKNESS OF WELDS ARE AS SHOWN, SPECIFIED OR REQUIRED.

7. ALL BOLTED CONNECTIONS SHALL BE MINIMUM 3/4" DIAMETER, A325 HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE.

ALUMINUM ROOF CANOPIES:

1. THE DESIGN, MANUFACTURE, QUALITY ASSURANCE AND ERECTION OF ALUMINUM ROOF CANOPIES SHALL BE IN ACCORDANCE WITH THE REFERENCED DESIGN STANDARDS IN THE PROJECT BUILDING CODE.

2. A SUBMITTAL PACKAGE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION AND ERECTION. THIS PACKAGE SHALL INCLUDE, AT A MINIMUM, FABRICATION DRAWINGS, ERECTION DRAWINGS, AND STRUCTURAL CALCULATIONS. THE SUBMITTAL PACKAGE SHALL INCLUDE DETAILS FOR EACH CONNECTION TO THE BUILDING STRUCTURE WITH THE DESIGN REACTIONS. THE CALCULATION PACKAGE SHALL BEAR THE SEAL AND SIGNATURE OF THE ENGINEER WHO SHALL BE REGISTERED IN THE STATE OF ALABAMA.

3. THE ALUMINUM CANOPIES SHALL BE DESIGNED FOR ALL SITE SPECIFIC DESIGN CRITERIA INCLUDING, BUT NOT LIMITED TO, LIVE LOAD, WIND LOAD, AND SNOW LOAD.

4. A SEPARATION MATERIAL SHALL BE USED TO BETWEEN THE ALUMINUM CANOPIES AND ANY DISSIMILAR METAL TO PREVENT GALVANIC CORROSION. THIS MATERIAL SHALL BE SHOWN ON THE ERECTION DRAWINGS.

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 19873
PROFESSIONAL
02/09/26
ENGINEER
KEITH L. OWENS

MBA Engineers

STATE OF ALABAMA
REGISTERED ARCHITECTS
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

GENERAL NOTES

DRAWN	DH
CHECKED	KLO
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23-03
REVISIONS	

SHEET S1.0 OF SHEETS

STEEL DECK:

1. STEEL DECK CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SDI STANDARDS.
2. ATTACH ROOF DECK TO SUPPORTS AT 12" OC. W/ #12 TEK SCREWS. ATTACH TO PERIMETER SUPPORTS AT 6" OC. PROVIDE #10 TEK SCREW SIDELAP FASTENERS AT 36" OC. (MIN. 1 PER SPAN).
3. ATTACH COMPOSITE FLOOR DECK TO SUPPORTS AT 12" OC. W/ #12 TEK SCREWS. ATTACH TO PERIMETER SUPPORTS AT 6" OC. PROVIDE #10 TEK SCREW SIDELAP FASTENERS AT 36" OC. (MIN. 3 PER SPAN).
4. DECK SHALL BE ATTACHED TO STEEL BEAMS AT 12" O.C. EITHER BY STUDS OR 3/4" PUDDLE WELDS. SIDE LAP WELDS SHALL BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS.
5. DECK SUPPORTS AROUND STEEL COLUMNS AND CLOSURE ANGLES SHALL BE SUPPLIED BY THE DECK MANUFACTURER, IF REQUIRED.
6. REINFORCING IN ALL FLOOR SLABS LOCATED 1" FROM THE TOP. SUPPORT AS REQUIRED.
7. DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS.

LOAD BEARING COLD-FORMED STEEL FRAMING:

1. COLD-FORMED STEEL FRAMING, FABRICATION, AND ERECTION SHALL CONFORM TO CURRENT AISI STANDARDS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
2. MINIMUM YIELD STRENGTH (Fy) FOR FRAMING IS 33,000 PSI FOR 33 MIL (20 GA.) AND 43 MIL (18 GA.) MATERIALS, AND 50,000 PSI FOR 54 MIL (16 GA.) AND THICKER MATERIALS.
3. ALL STUDS, TRACK, BRIDGING, AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A MINIMUM G60 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653.
4. ALL WELDS SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
5. UNLESS NOTED OTHERWISE, ALL STUDS SHALL BE EQUAL TO A MINIMUM OF 54 MIL (16 GA.) SPACED AT 16" ON CENTER WITH A 54 MIL (16 GA.) TRACK, TOP AND BOTTOM.
6. SPLICING OF WALL STUDS IS NOT ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER OF RECORD.
7. BOTH STUD FLANGES MUST BE ATTACHED TO TRACK AT TOP & BOTTOM WITH MINIMUM #12 SCREWS OR WELD.
8. A MINIMUM OF 10" OF UN-PUNCHED STEEL IS REQUIRED AT BOTH ENDS OF STUDS (NO PUNCHING HOLES OF ANY SIZE IS PERMITTED IN THESE 10 INCHES).
9. LATERAL BRIDGING SHALL BE USED TO RESIST TORSIONAL FORCES ON THE LOAD-BEARING STUDS. BRIDGING SHALL BE 1 1/2" CRC CHANNEL IN 3 5/8" OR 4" STUDS AND 2 1/2" CRC CHANNEL IN 6" STUDS. FULL DEPTH BRIDGING SHALL BE USED IN 8" OR LARGER STUDS. BRIDGING IS TO BE SPACED AT NO MORE THAN 4'-0" O.C. VERTICALLY (APPROXIMATELY ONE-THIRD POINTS).
10. HEADERS FOR WALL OPENINGS SHALL BE AS SPECIFIED ON THE DRAWINGS. WHERE HEADER SIZE IS NOT SPECIFIED ON DRAWINGS, HEADER SHALL BE DESIGNED TO TRANSFER ALL UNIFORM AND/OR CONCENTRATED LOADS. SHEAR SHALL BE TRANSFERRED BY FULL BEARING ON JACK STUDS OR BY SHEAR PLATES/CLIP ANGLES. SHEAR PLATES/CLIP ANGLES SHALL BE 54 MIL (16 GA.) MINIMUM. AT A MINIMUM, CONTINUOUS STUDS LOCATED AT EACH SIDE OF HEADERS SHALL BE EQUAL TO 1/2 OF THE INTERRUPTED STUDS PLUS ONE STUD EACH SIDE.
11. ALL HEADERS/BUILT-UP BEAMS SHALL BE CONSTRUCTED WITH UNPUNCHED MATERIAL ONLY.
12. SPLICING OF HEADERS/BUILT-UP BEAMS IS NOT ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER OF RECORD.
13. VOIDS BENEATH TRACK SHALL NOT BE PERMITTED. CONTRACTOR SHALL PROVIDE A REASONABLY LEVEL SLAB WITH TOLERANCE OF 1/8" IN 10 FEET. WHERE UNEVENNESS OF SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY A METHOD APPROVED BY THE ENGINEER OF RECORD.
14. MINIMUM TRACK FASTENING SHALL BE .177" DIAMETER POWDER ACTUATED FASTENERS SPACED AT 16" ON CENTER (UNO.), WITH 1" MINIMUM PENETRATION INTO CONCRETE.
15. NOTCHING, COPING OR CUTTING OF COLD-FORMED STEEL FRAMING OR PREFABRICATED PANELS IS NOT PERMITTED WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER OF RECORD.
16. MULTIPLE STUD "COLUMNS" SHALL BE WELDED TOGETHER IN GROUPS OF AT LEAST 2 STUDS WTH 2" TOP & BOTTOM AND 1"@24" OC. BOTH SIDES IN BETWEEN.

PRE-FABRICATED COLD-FORMED STEEL TRUSSES:

1. THE DESIGN, MANUFACTURE, QUALITY ASSURANCE AND ERECTION OF COLD-FORMED STEEL TRUSSES SHALL BE IN ACCORDANCE WITH THE CURRENT AISI NORTH AMERICAN STANDARDS FOR COLD-FORMED STEEL FRAMING.
2. A TRUSS DESIGN PACKAGE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION AND ERECTION. THIS PACKAGE SHALL INCLUDE, AT A MINIMUM, EACH INDIVIDUAL TRUSS DESIGN DRAWING AND CALCULATION, THE TRUSS PLACEMENT DIAGRAM, THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING METHOD AND DETAILS, AND ANY OTHER STRUCTURAL DETAILS GERMANE TO THE TRUSSES. THE TRUSS DESIGN DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF THE TRUSS DESIGNER WHO SHALL BE REGISTERED IN THE STATE OF ALABAMA.
3. TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS MANUFACTURER FOR THE DESIGN LOADS.
4. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE COLD-FORMED STEEL FRAMING FOR ALL RIDGE, HIP RIDGE AND VALLEY MEMBERS.
5. ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR TRUSSES SHALL BE DESIGNED AND DETAILED BY THE TRUSS DESIGNER. AT A MINIMUM, TRUSS INSTALLER SHALL COMPLY WITH THE "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF COLD-FORMED STEEL TRUSSES" BY THE COLD-FORMED STEEL COUNCIL.
6. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING SUPERIMPOSED LOADS:
   ROOF TOP CHORD DEAD LOAD----------20 PSF
   ROOF BOTTOM CHORD DEAD LOAD----------5 PSF
   ROOF TOP CHORD LIVE LOAD----------20 PSF
7. TRUSSES SHALL BE DESIGNED FOR COMPONENT AND CLADDING WIND LOADS BASED ON THE PROVIDED DESIGN CRITERIA AND COMPONENT AND CLADDING WIND LOAD TABLES.
8. TRUSS DESIGNER SHALL VERIFY THAT ALL EQUIPMENT WEIGHTS, CONCENTRATED LOADS, AND LOCATIONS ARE PROVIDED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE TRUSS DESIGNER. THE LOADS AND CORRESPONDING LOCATIONS SHALL BE IDENTIFIED ON THE TRUSS PLACEMENT DIAGRAM.
9. MECHANICAL DUCT OPENINGS IN TRUSSES SHALL BE COORDINATED WITH THE MECHANICAL DRAWINGS TO ACCOMMODATE THE DUCT LOCATION AND SIZE WITH INSULATION.

DESIGN CRITERIA:

1. GOVERNING CODE:
   A. INTERNATIONAL BUILDING CODE, I.B.C. 2021
2. GRAVITY DESIGN LOADS:
   A. DEAD
      1. DESIGN DEAD LOADS ARE BASED ON THE SELF WEIGHT OF CONSTRUCTION MATERIALS SHOWN IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. ANY ALTERNATE MATERIALS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER TO REVIEW.
   B. LIVE:

1.	MEZZANINE FLOOR	60 PSF + 20 PSF PARTITION LOAD
2.	STAIRS, RAMPS	100 PSF
3.	CORRIDORS ABOVE 1ST FLOOR	80 PSF
4.	ROOF	20 PSF

   C. SNOW
      1. GROUND SNOW LOAD (Pg) = 5 PSF
      2. SNOW EXPOSURE FACTOR (Ce) = 1.0
      3. SNOW LOAD IMPORTANCE FACTOR (Is) = 1.2
      4. THERMAL FACTOR (Ct) = 1.0
3. LATERAL DESIGN LOADS:
   A. WIND
      1. DESIGNED PER ASCE 7-16
      2. ULTIMATE WIND SPEED = 118 MPH
      3. NOMINAL WIND SPEED = 92 MPH
      4. RISK CATEGORY = IV
      5. BUILDING CATEGORY = ENCLOSED
      6. EXPOSURE CATEGORY = C
      7. INTERNAL PRESSURE COEFFICIENT (GCpi) = ±0.18
      8. COMPONENTS & CLADDING WIND PRESSURES SEE CHART
   B. STORM SHELTER WIND
      1. DESIGNED FOR WIND ACCORDING TO ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS (ICC 500 -2014)
      2. BASIC WIND SPEED = 250 MPH
      3. WIND IMPORTANCE FACTOR (Iw) = 1.0
      4. BUILDING CATEGORY = ENCLOSED
      5. EXPOSURE CATEGORY = C
      6. INTERNAL PRESSURE COEFFICIENT (GCpi) = ±0.55 (PER EXCEPTION TO SECTION 304.8 OF ICC 500)
      7. TOPOGRAPHIC FACTOR, Kzt = 1.0
      8. DIRECTIONALITY FACTOR, Kd = 1.0
      9. MEETS MISSILE IMPACT CRITERIA OF ICC 500 (15 POUND 2x4 MISSILE IMPACTING AT 100 MPH FOR VERTICAL STRUCTURE AND 67 MPH FOR HORIZONTAL STRUCTURE)
   C. EARTHQUAKE
      1. SEISMIC RISK CATEGORY = IV
      2. SEISMIC IMPORTANCE FACTOR (Ie) = 1.5
      3. MAPPED SPECTRAL RESPONSE ACCELERATIONS
         A. Ss = 0.271
         B. S1 = 0.099
      4. SOIL SITE CLASS = C
      5. DESIGN SPECTRAL RESPONSE ACCELERATIONS
         A. Sds = 0.286
         B. Sd1 = 0.159
      6. SEISMIC DESIGN CATEGORY = D
      7. BASIC SEISMIC-FORCE-RESISTING SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS
      8. DESIGN BASE SHEAR = 172 KIPS
      9. SEISMIC RESPONSE COEFFICIENT (Cs) = 0.215
      10. RESPONSE MODIFICATION FACTOR (R) = 2
      11. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

SPECIAL INSPECTIONS:

1. THE OWNER SHALL EMPLOY A QUALIFIED TESTING AGENT/ENGINEER TO PROVIDE SPECIAL INSPECTIONS. SPECIAL INSPECTORS SHALL SUBMIT RESUME OF EXPERIENCE AND QUALIFICATIONS OF ALL INDIVIDUALS PERFORMING WORK TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO ANY WORK BEING PERFORMED. SPECIAL INSPECTIONS SHOULD BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2021) AND AS INDICATED IN THE SPECIFICATIONS.

STORM SHELTER QUALITY ASSURANCE PLAN:

1. ROOF CLADDING AND ROOF FRAMING CONNECTIONS:
   A. ATTACH COMPOSITE METAL DECK TO BEAMS AND/OR JOISTS AT 12" ON CENTER WITH 3/4" DIAMETER PUDDLE WELDS. ATTACH TO PERIMETER SUPPORTS AT 6" ON CENTER. PROVIDE SIDELAP FASTENERS AT 36" ON CENTER MINIMUM (1 SIDELAP FASTENER PER SPAN MINIMUM). DECK WELDS SHALL BE INSPECTED AS NOTED IN TABLE OF SPECIAL INSPECTIONS.
   B. WELD BEAMS AND/OR JOISTS TO EMBED PLATES AS NOTED IN TYPICAL BEARING DETAILS. WELDS AND PLACEMENT OF EMBED PLATES SHALL BE INSPECTED AS NOTED IN THE TABLE OF SPECIAL INSPECTIONS.
2. WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGM AND FRAMING:
   A. ATTACH ROOF SLAB TO WALL WITH REBAR DOWELS OF SIZE AND SPACING SHOWN IN WALL SECTIONS. DOWEL PLACEMENT SHALL BE INSPECTED AS NOTED FOR STEEL REINFORCING IN THE TABLE OF SPECIAL INSPECTIONS.
3. ROOF AND FLOOR DIAPHRAGM SYSTEM, INCLUDING CONNECTORS, DRAG STRUTS, AND BOUNDARY ELEMENTS:
   A. REINFORCE ROOF SLAB WITH WELDED WIRE FABRIC AND STEEL REINFORCING AS SHOWN IN BUILDING SECTIONS. REINFORCING SIZE AND PLACEMENT SHALL BE INSPECTED AS NOTED IN THE TABLE OF SPECIAL INSPECTIONS.
4. MAIN WIND FORCE RESISTING SYSTEMS, INCLUDING BRACED FRAMES, MOMENT FRAMES AND SHEAR WALLS:
   A. MAIN WIND FORCE RESISTING SYSTEM CONSISTS OF MASONRY WALLS AND COMPOSITE SLAB ROOF ACTING AS MOMENT FRAMES. MASONRY WALLS ALSO ACT AS SHEAR WALLS. INSPECT MASONRY, GROUT, AND REINFORCING STEEL AS NOTED IN THE TABLE OF SPECIAL INSPECTIONS.
5. MAIN WIND FORCE RESISTING SYSTEM CONNECTIONS TO THE FOUNDATION:
   A. ATTACH MASONRY WALLS TO SPREAD FOUNDATIONS WITH REBAR DOWELS OF SIZE AND SPACING SHOWN IN WALL SECTIONS (MATCH VERTICAL REINFORCING). DOWEL PLACEMENT AND SIZE SHALL BE INSPECTED AS NOTED IN THE TABLE OF SPECIAL INSPECTIONS.
6. FABRICATION AND INSTALLATION OF COMPONENTS AND ASSEMBLIES OF THE SHELTER ENVELOPE REQUIRED TO MEET MISSILE IMPACT TEST REQUIREMENTS OF CHAPTER 3:
   A. MASONRY WALLS SHALL BE GROUTED AND REINFORCED AS SHOWN IN BUILDING SECTIONS IN ORDER TO MEET THE MISSILE IMPACT TEST REQUIREMENTS FOR ICC - 500.
   B. CONCRETE SLAB ON COMPOSITE DECK AT ROOF SHALL BE OF THICKNESS NOTED AND SHALL BE REINFORCED AS SHOWN IN BUILDING SECTIONS IN ORDER TO MEET THE MISSILE IMPACT TEST REQUIREMENTS FOR ICC-500.
7. REQUIREMENTS FOR COMPONENTS AND CLADDING INCLUDING SOFFITS:
   A. DOORS, WINDOWS, AND LOUVERS SHALL MEET MISSILE IMPACT TEST REQUIREMENTS OF ICC-500. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR DETAILS.
   B. DOOR, WINDOW, AND LOUVER INSTALLATIONS SHALL BE INSPECTED PER ARCHITECTURAL AND MECHANICAL SPECIFICATIONS.
8. CORROSION RESISTANCE OR PROTECTION OF METAL CONNECTORS EXPOSED TO THE ELEMENTS THAT PROVIDE LOAD PATH CONTINUITY:
   A. NO EXPOSED CONNECTORS IN THIS STORM SHELTER.
9. REQUIREMENTS FOR CRITICAL SUPPORT SYSTEMS CONNECTIONS AND DEBRIS IMPACT PROTECTION OF THE COMPONENTS AND CONNECTIONS:
   A. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR CRITICAL SUPPORT SYSTEMS THAT ARE TO BE LOCATED INSIDE STORM SHELTER.
   B. MECHANICAL AND ELECTRICAL CRITICAL SUPPORT SYSTEMS LOCATED OUTSIDE OF THE STORM SHELTER SHALL BE PROTECTED WITH A PRE-MANUFACTURED ENCASEMENT SHELTER THAT MEETS ALL CRITERIA OF ICC-500. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DETAILS OF THESE SYSTEMS AND THEIR ENCLOSURES.
10. INSPECTION & TESTING:
   A. SPECIAL INSPECTION OF ALL STORM SHELTER CONSTRUCTION SHALL BE PER TABLE OF SPECIAL INSPECTIONS.
   B. MATERIAL TESTING SHALL BE OF TYPE AND FREQUENCY INDICATED IN SPECIFICATIONS.
   C. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AT ALL SIGNIFICANT CONSTRUCTION STAGES TO ALLOW FOR STRUCTURAL OBSERVATION OF SHELTER CONSTRUCTION.
   D. INSPECTION, TESTING AND OBSERVATION REPORTS SHALL BE DISTRIBUTED TO CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD. REPORTS INDICATING DEFICIENCIES OR DEVIATIONS FROM CONTRACT DRAWINGS SHOULD BE DISTRIBUTED WITHIN 24 HOURS OF THE SITE VISIT. INSPECTOR SHALL NOTIFY CONTRACTOR OF ANY DEFICIENCY OR DEVIATION PRIOR TO LEAVING SITE.

DELEGATED DESIGN SUBMITTALS:

1. THE FOLLOWING DELEGATED DESIGN SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING OFFICIAL FOR APPROVAL. REFER TO MATERIAL SPECIFIC SECTION OF NOTES THIS SHEET FOR ADDITIONAL INFORMATION.
   - STRUCTURAL STEEL CONNECTIONS
   - COLD FORMED STEEL FRAMING
   - COLD FORMED STEEL TRUSSES
   - STRUCTURAL STEEL STAIRS
   - ALUMINUM CANOPIES

COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF)

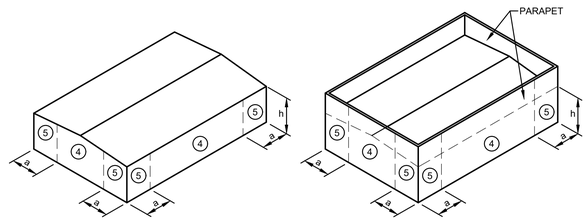
ZONE	EFFECTIVE WIND AREA									
	10 SF		20 SF		50 SF		100 SF		200 SF	
	XXX	-XXX	XXX	-XXX	XXX	-XXX	XXX	-XXX	XXX	-XXX
1	29	-53	26	-45	22	-34	18	-27	18	-27
2e	29	-53	26	-45	22	-34	18	-27	18	-27
2n	29	-58	26	-52	22	-44	18	-38	18	-38
2r	29	-53	26	-45	22	-34	18	-27	18	-27
3e	29	-72	26	-63	22	-53	18	-45	18	-45
3r	29	-58	26	-52	22	-44	18	-38	18	-38
4	32	-34	30	-33	29	-31	27	-30	27	-30
5	32	-42	30	-40	29	-36	27	-33	27	-33
2OH	29	-58	26	-52	22	-44	18	-38	18	-38
3OH	34	-82	30	-73	25	-61	21	-51	21	-51

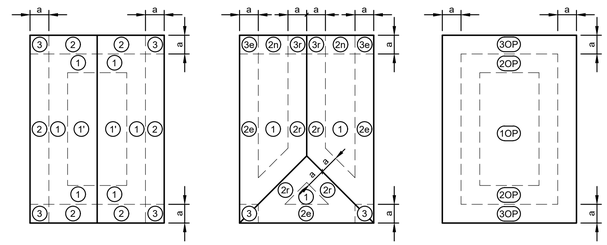
NOTE:
1. PLUS AND MINUS SIGNS DENOTE PRESSURE ACTING TOWARD AND AWAY FROM BUILDING SURFACES.
2. PRESSURE ZONE LOCATIONS ARE IN ACCORDANCE WITH ASCE 7-16.
3. PRESSURES INDICATED ARE BASED ON ULTIMATE WIND SPEEDS PER ASCE 7-16. TO CONVERT PRESSURES TO NOMINAL LOADS, MULTIPLY VALUES IN CHART BY A FACTOR OF 0.6.
4. a = 3'-4"

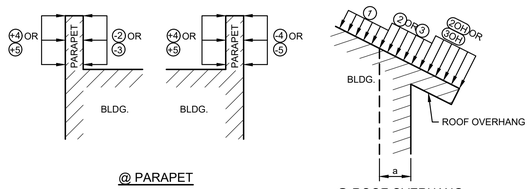
STORM SHELTER - COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF)

ZONE	EFFECTIVE WIND AREA									
	10 SF		20 SF		50 SF		100 SF		200 SF	
	XXX	-XXX	XXX	-XXX	XXX	-XXX	XXX	-XXX	XXX	-XXX
1	116	-197	112	-197	106	-197	102	-197	102	-177
1'	116	-306	112	-289	106	-267	102	-250	102	-233
2	116	-388	112	-366	106	-337	102	-316	102	-294
3	116	-510	112	-467	106	-409	102	-366	102	-323
4	197	-210	191	-203	182	-195	176	-188	169	-182
5	197	-246	191	-233	182	-216	176	-203	169	-190

NOTE:
1. PLUS AND MINUS SIGNS DENOTE PRESSURE ACTING TOWARD AND AWAY FROM BUILDING SURFACES.
2. PRESSURE ZONE LOCATIONS ARE IN ACCORDANCE WITH ASCE 7-16.
3. PRESSURES INDICATED ARE BASED ON ULTIMATE WIND SPEEDS PER ASCE 7-16. TO CONVERT PRESSURES TO NOMINAL LOADS, MULTIPLY VALUES IN CHART BY A FACTOR OF 0.6.
4. a = 2'-0"







ZONE LAYOUT DIAGRAMS

MBA Engineers

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

STATE OF ALABAMA • REGISTERED ARCHITECTS • THOMAS M. McELRATH 3072 GADSDEN, ALABAMA

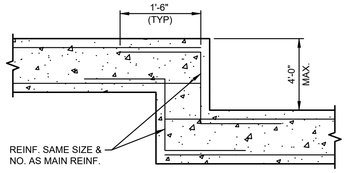
A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

GENERAL NOTES

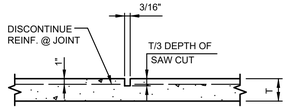
DRAWN	DH
CHECKED	KLO
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23-03
REVISIONS	

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 19873 02/09/26 KEITH L. OWENS

SHEET S1.1 OF SHEETS

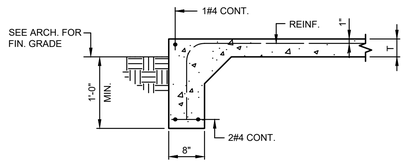


TYPICAL FOOTING STEP DETAIL



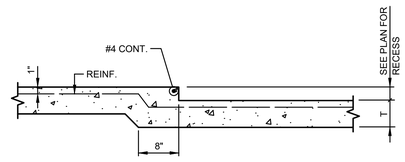
TYPICAL SAWED CONTROL JOINT

NOTES:
1. USE SAWS, BLADES AND SKID PLATES BY SOFF-CUT INTERNATIONAL OR EQUAL.
2. SEE PLAN FOR JOINT LAYOUT OR PROVIDE @ 12'-0" OC. MAX. EA. WAY.
3. START CUTTING SAWED JOINTS AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES. THIS WILL TYPICALLY BE FROM 1 HOUR IN HOT WEATHER TO 4 HOURS IN COLD WEATHER AFTER COMPLETING FINISHING OF SLAB IN THAT JOINT LOCATION.
4. EXTEND SAWED JOINT TO THE SLAB BOUNDARIES AND ABUTMENTS, INCLUDING COLUMNS, DRAINS AND OTHER PENETRATIONS IN THE PATH OF A DEFINED JOINT. IMPLEMENT METHODS AND TIMING OF THE SAW CUT BEYOND THE LIMITS OF THE SOFF-CUT SAW REACH TO PROVIDE A CONSISTENT DEPTH OF CUT WITH MINIMAL RAVELING OF JOINT EDGES.



TYPICAL TURNDOWN SLAB DETAIL

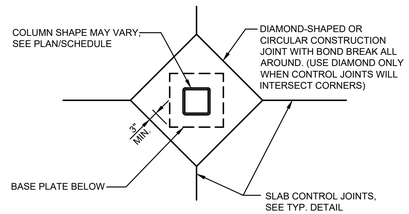
NOTE:
T = SLAB THICKNESS (SEE PLAN)



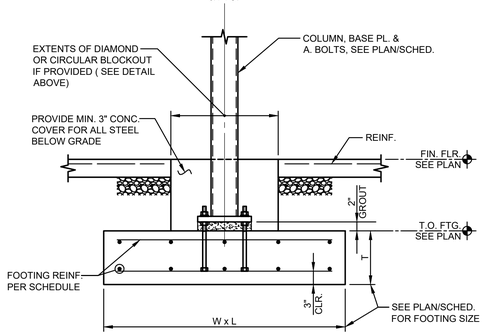
8" AND LESS

TYPICAL SLAB RECESS @ SLAB ON GRADE

NOTES:
1. T = SLAB THICKNESS (SEE PLAN)
2. SEE PLAN FOR LOCATION OF SLAB DEPRESSION

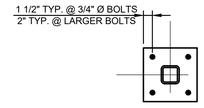


PLAN VIEW



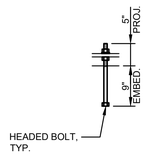
SECTION VIEW (NO PEDESTAL)

TYPICAL COLUMN FOOTING DETAILS



BP-1

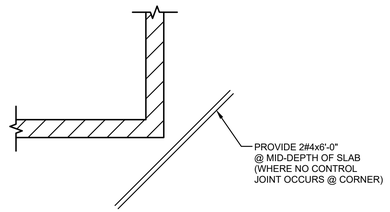
TYPICAL BASE PLATE DETAILS



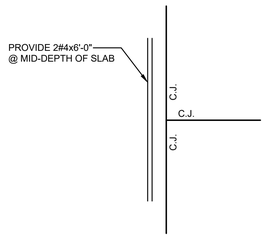
AB-1

TYPICAL ANCHOR BOLT DETAILS

USE ASTM F1554 GRADE 55 WITH WELDABILITY SUPPLEMENT
S1 FOR ALL ANCHOR BOLTS UNO.

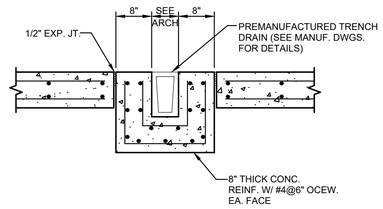


@ RE-ENTRANT CORNERS



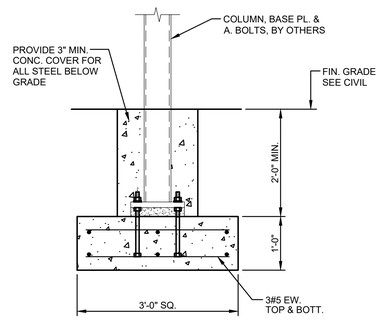
@ DISCONTINUOUS CONTROL JOINTS

TYPICAL ADDITIONAL REINFORCING @ SLAB ON GRADE



TYPICAL TRENCH DRAIN DETAIL

NOTE:
SEE ARCH. DWGS. FOR LOCATIONS



TYPICAL CANOPY COLUMN FOOTING DETAIL

NOTE:
SEE ARCH. FOR LOCATIONS

STATE OF ALABAMA
REGISTERED ARCHITECTS
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
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TYPICAL DETAILS

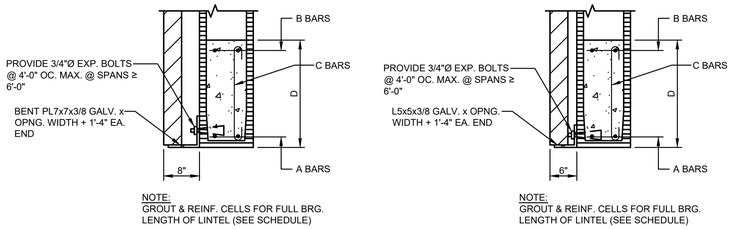
DRAWN	DH
CHECKED	KLO
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23-03
REVISIONS	

ALABAMA
LICENSED
No. 19873
PROFESSIONAL
02/09/26
ENGINEER
KEITH L. ONEKNO

SHEET
S1.2
OF
SHEETS

MBA Engineers

FILE:S25177-PLANS.dwg TAB:S1.2 PD:11/4/2005 11:04 AM PB:Troy Post



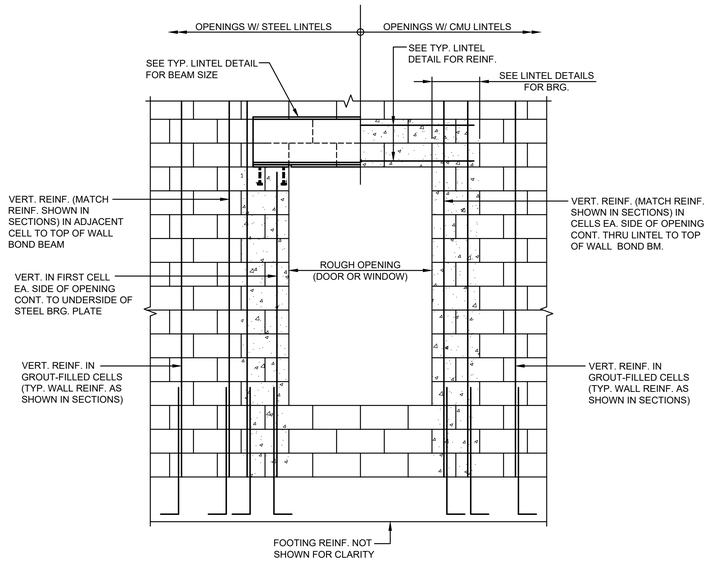
NOTE:
GROUT & REINF. CELLS FOR FULL BRG. LENGTH OF LINTEL (SEE SCHEDULE)

NOTE:
GROUT & REINF. CELLS FOR FULL BRG. LENGTH OF LINTEL (SEE SCHEDULE)

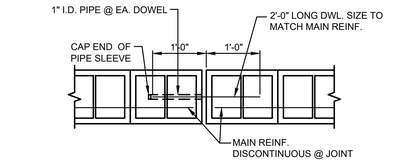
8" MASONRY LINTEL SCHEDULE					
MAX. SPAN	D	A BARS	B BARS	C BARS	BEARING LENGTH
≤ 6'-0"	16"	1#6	1#3	#3@16"	1'-4"
≤ 9'-6"	24"	1#6	1#6	#3@16"	1'-4"

12" MASONRY LINTEL SCHEDULE					
MAX. SPAN	D	A BARS	B BARS	C BARS	BEARING LENGTH
≤ 6'-0"	16"	2#6	2#6	#3@16"	1'-4"
≤ 10'-8"	24"	2#6	2#6	#3@16"	1'-4"
≤ 12'-0"	24"	2#7	2#6	2#3@16"	1'-4"

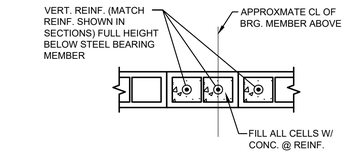
TYPICAL LOAD BEARING WALL LINTEL DETAIL & SCHEDULE



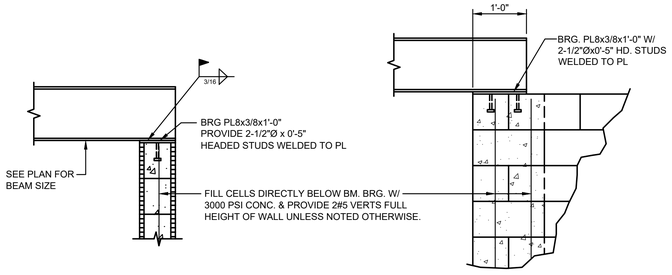
TYPICAL REINF. @ MASONRY WALL OPENINGS



TYPICAL WALL CONTROL JOINT DETAIL AT U-BLOCK FILLED WITH CONCRETE OR AT CONCRETE BEAM

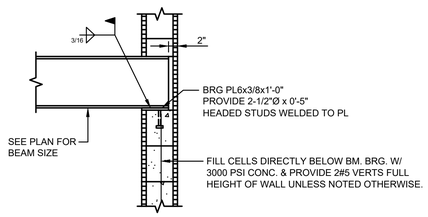


TYPICAL WALL REINF. BELOW BEARING MEMBER DETAIL



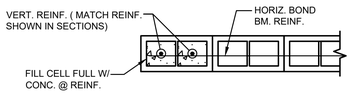
BEAM PERPENDICULAR TO WALL

BEAM PARALLEL TO WALL

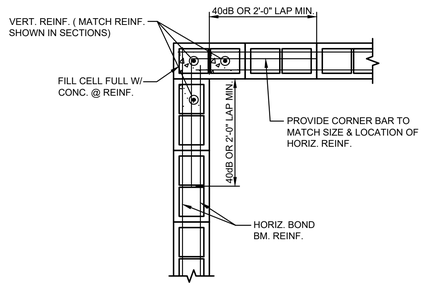


BEAM @ EXPOSED MASONRY WALL

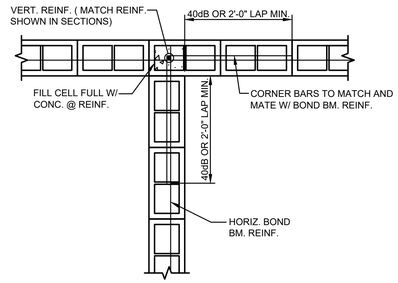
TYPICAL STEEL BEAM BEARING ON MASONRY WALL DETAILS



TYPICAL JAMB AND END OF MASONRY WALL REINF. DETAIL



TYPICAL CORNER MASONRY WALL REINF. DETAIL



TYPICAL INTERSECTION MASONRY WALL REINF. DETAIL

STATE OF ALABAMA
REGISTERED ARCHITECTS
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
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SHEET S1.3 OF SHEETS

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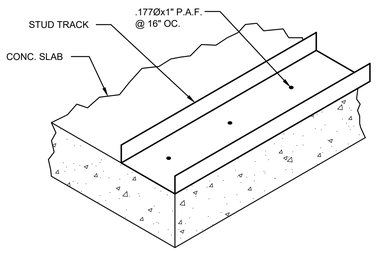
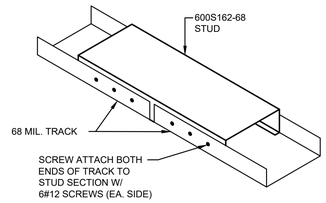
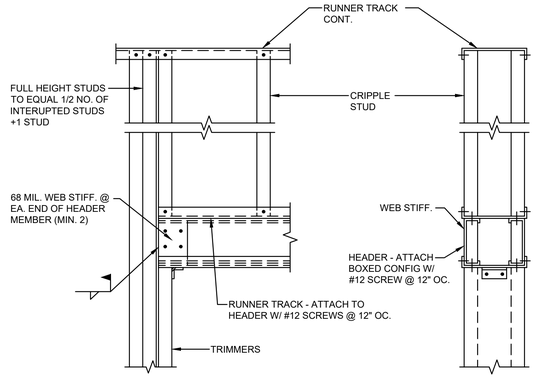


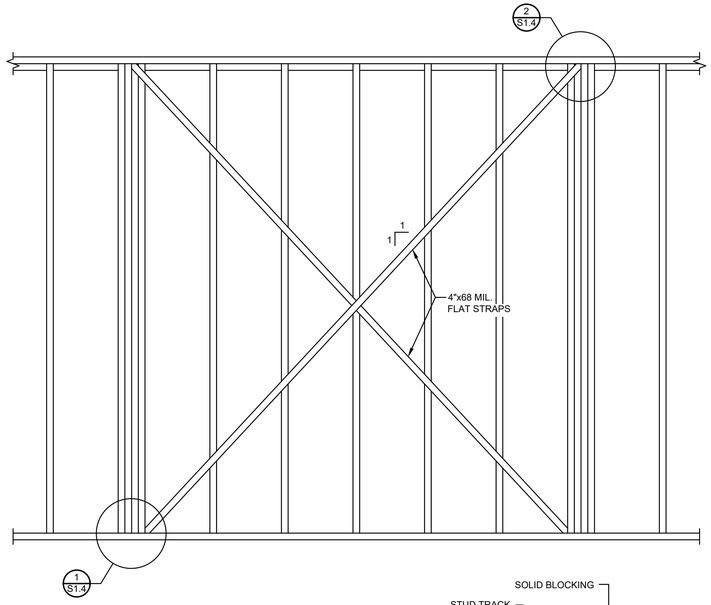
TYPICAL STUD TRACK TO SLAB ATTACHMENT DETAIL

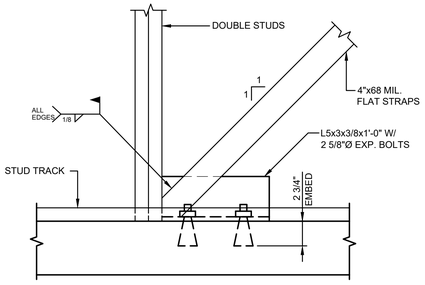


TYPICAL TRACK SPLICE DETAIL

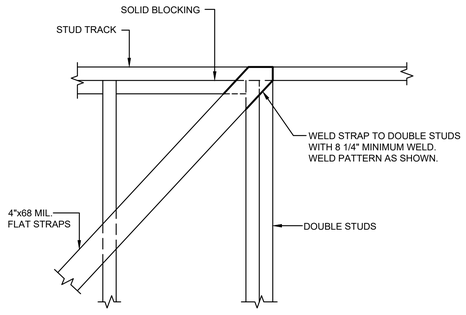


TYPICAL LOAD BEARING HEADER DETAIL





1 S1.4 SECTION
1 1/2" = 1'-0"



2 S1.4 SECTION
1 1/2" = 1'-0"

TYPICAL X-BRACING DETAIL

STATE OF ALABAMA
REGISTERED ARCHITECTS
THOMAS M. McELRATH
3072
GADSDEN, ALABAMA

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

TYPICAL DETAILS

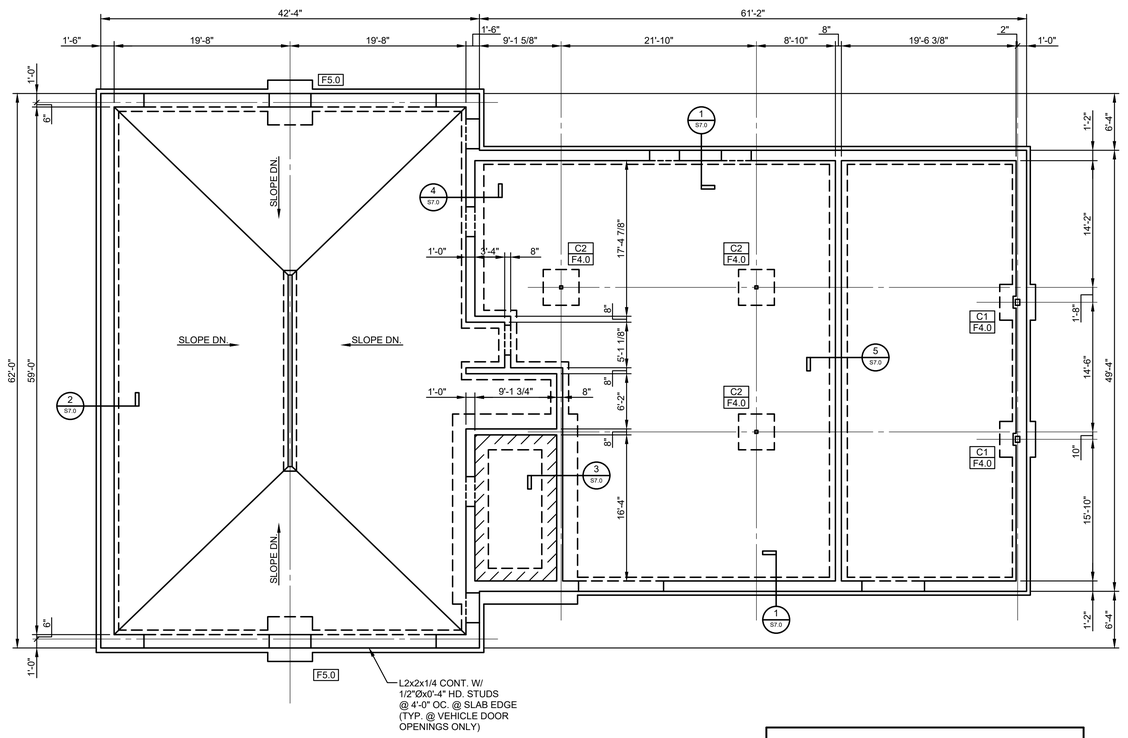
DRAWN	DH
CHECKED	KLO
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23-03
REVISIONS	

ALABAMA LICENSED No. 19873 PROFESSIONAL ENGINEER KEITH L. OWENS 02/09/26

MBA Engineers

SHEET S1.4 OF SHEETS

FILE:S25177-PLANS.dwg TAB:S1.4 PD:11/4/2005 11:04 AM PB:Troy Post



FOUNDATION & FLOOR PLAN

1/8" = 1'-0" FIN. FLR. ELEV. 0'-0"

TYPICAL FLOOR CONSTRUCTION:
4" CONC. SLAB ON DRAINAGE FILL
REINF. W/ 6x6-W2.1xW2.1 W.W.R.

APPARATUS FLOOR CONSTRUCTION:
8" CONC. SLAB ON DRAINAGE FILL
REINF. W/ #5@12" OCEW. TOP & BOTTOM.

NOTES:
1. TOP OF FOOTING ELEV. (-2'-8") BELOW FIN. FLR. U.N.O.
2. SHADED AREA DENOTES STORM SHELTER.

FOOTING SCHEDULE

MARK	SIZE: WxLxT	REINFORCING
F4.0	4'-0"x4'-0"x12"	4#5 EW. BOTTOM
F5.0	5'-0"x5'-0"x12"	5#5 EW. BOTTOM

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	BASE PLATE DETAIL	ANCHOR BOLTS	ANCHOR BOLTS DETAIL	REMARKS
C1	HSS8x6x3/8	14x1x1'-2"	BP-1	4-3/4"Ø	AB-1	EXT'D COL. TO ROOF DECK
C2	HSS4x4x3/8	12x1x1'-0"	BP-1	4-3/4"Ø	AB-1	

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SHEET S2.1 OF SHEETS

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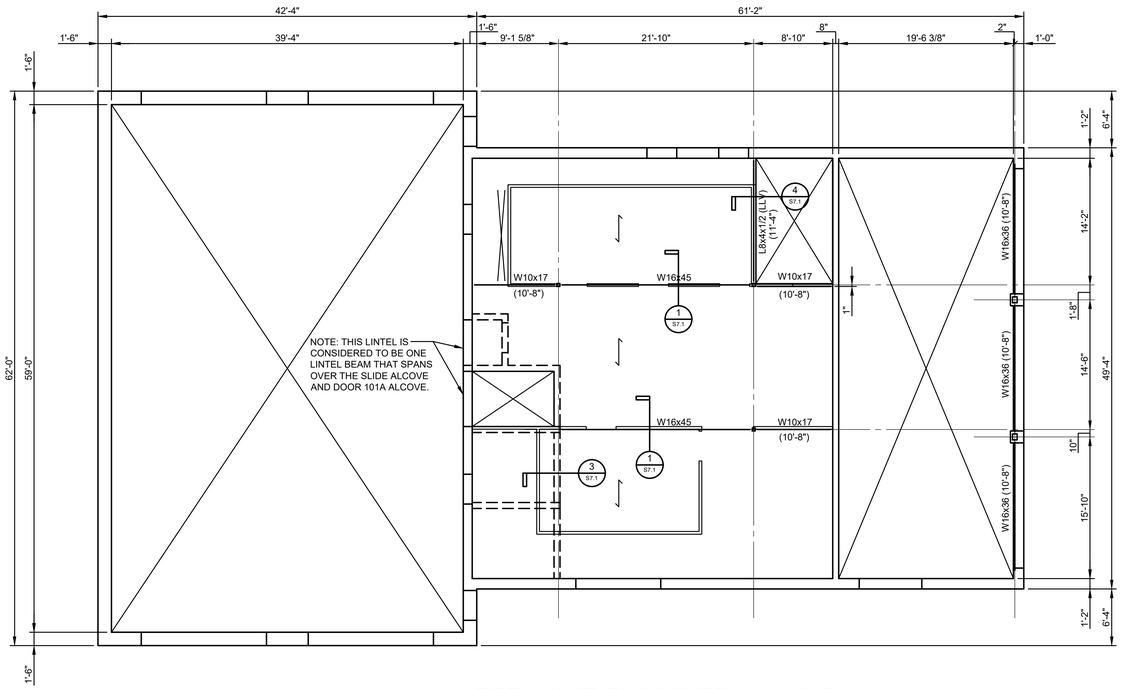
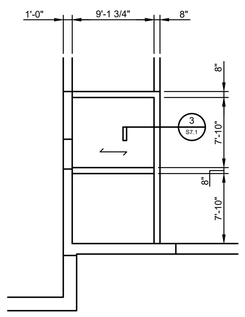


MEZZANINE FLOOR FRAMING PLAN

1/8" = 1'-0" FIN. FLR. ELEV. 11'-4"

FLOOR CONSTRUCTION:
5" CONC. SLAB ON 3", 20 GA. GALV., COMPOSITE METAL DECKING. REINF. W/ #5@8" OCEW.

NOTES:
1. TOP OF STEEL ELEV. (11'-2") U.N.O.
2. SHORE ALL DECK AT MID SPAN UNTIL CONCRETE REACHES 28 DAY STRENGTH.
3. ><- INDICATES X-BRACING.



SHELTER ROOF FRAMING PLAN

1/8" = 1'-0" SLAB ELEV. 9'-4"

SLAB CONSTRUCTION:
5" CONC. SLAB ON 3", 20 GA. GALV., COMPOSITE METAL DECKING. REINF. W/ #5@8" OCEW.

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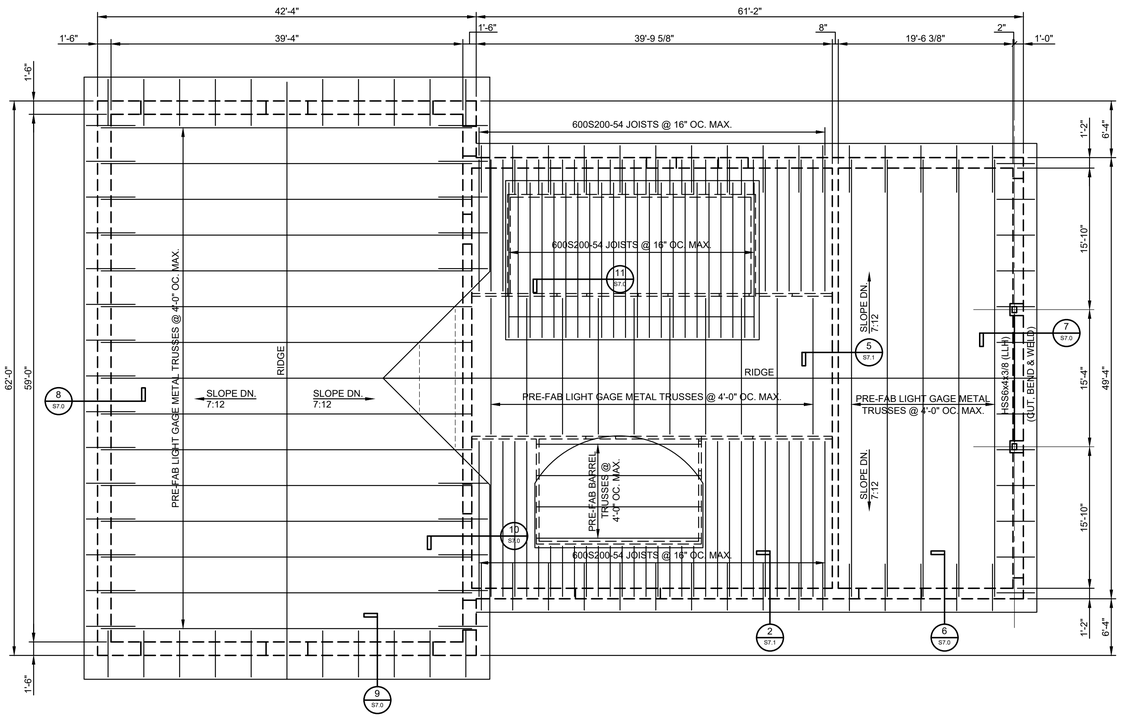
SHEET S2.2 OF SHEETS

FILE:S25177-PLANS.dwg TAB:S2.2 PD:11/4/2005 11:04 AM PB:Troy Post



ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF CONSTRUCTION:
1 1/2" DEEP, 20 GA. GALV., (TYPE "B") METAL ROOF DECK.

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SHEET S2.3 OF SHEETS

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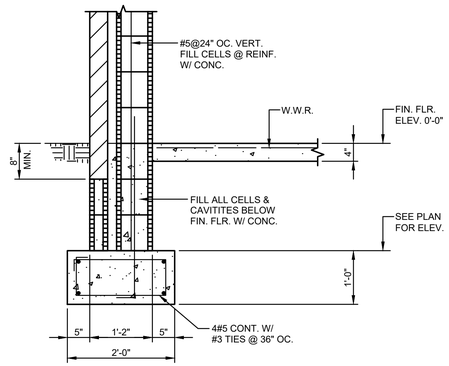
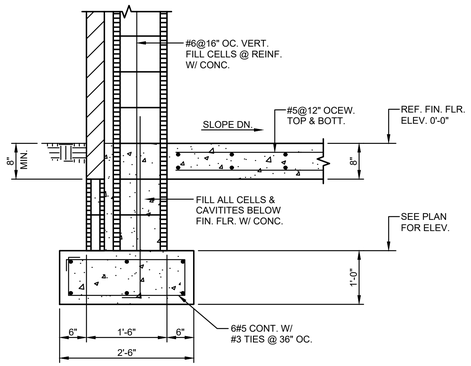
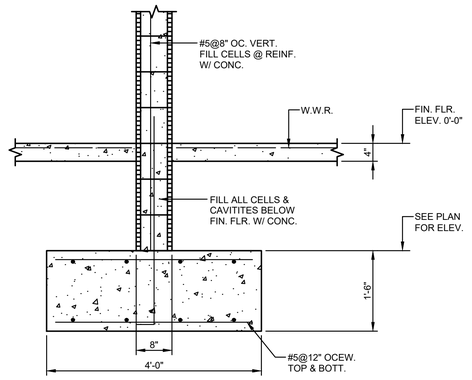


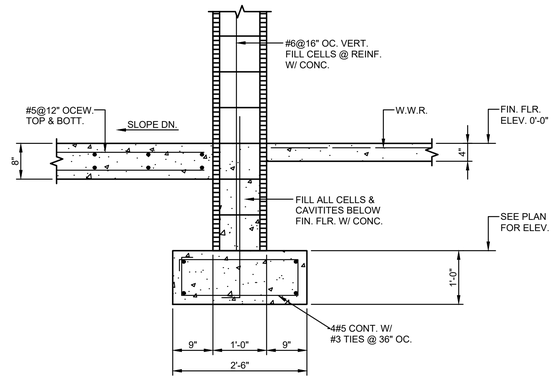
1 S7.0 SECTION
3/4" = 1'-0"



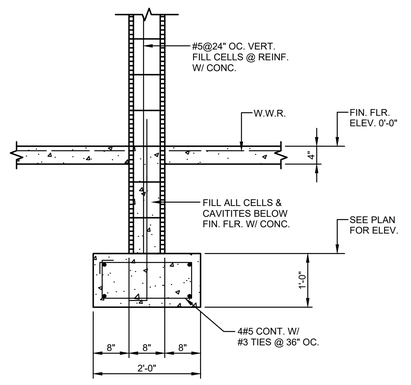
2 S7.0 SECTION
3/4" = 1'-0"



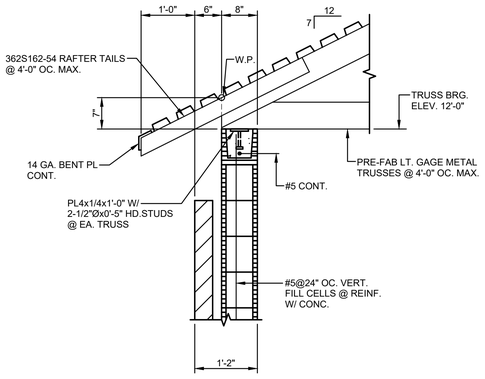
3 S7.0 SECTION
3/4" = 1'-0"



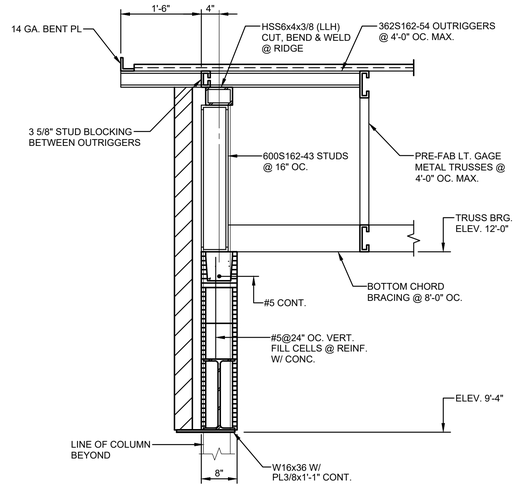
4 S7.0 SECTION
3/4" = 1'-0"



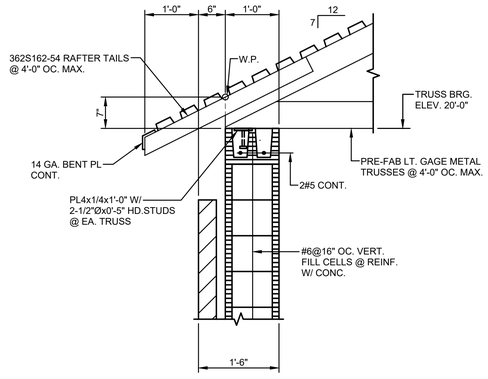
5 S7.0 SECTION
3/4" = 1'-0"



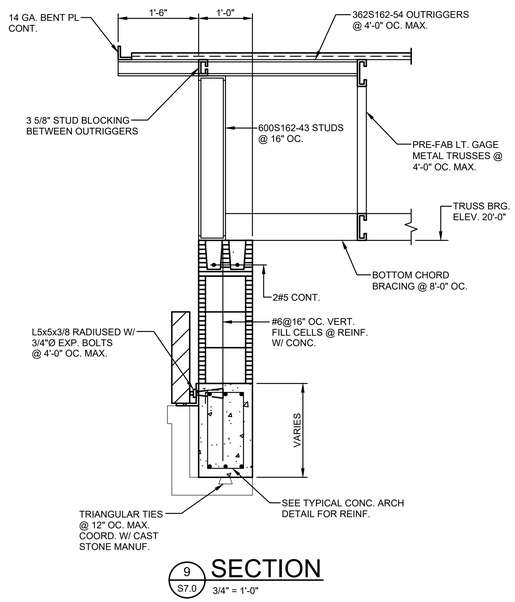
6 S7.0 SECTION
3/4" = 1'-0"



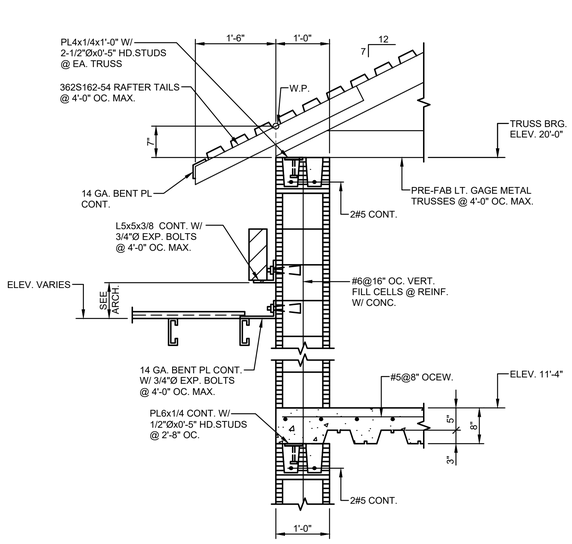
7 S7.0 SECTION
3/4" = 1'-0"



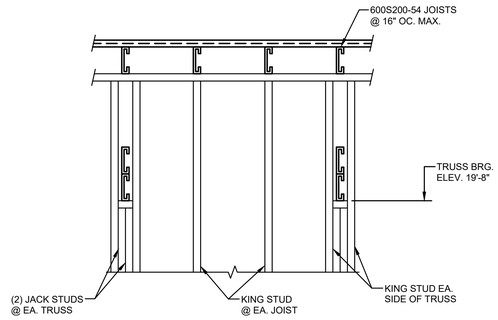
8 S7.0 SECTION
3/4" = 1'-0"



9 S7.0 SECTION
3/4" = 1'-0"



10 S7.0 SECTION
3/4" = 1'-0"



11 S7.0 SECTION
3/4" = 1'-0"

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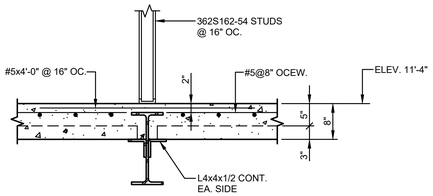
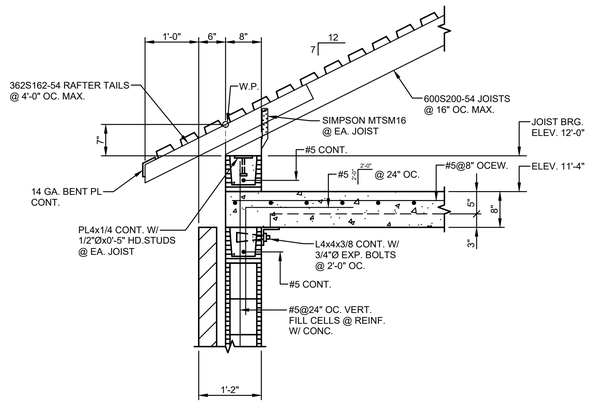
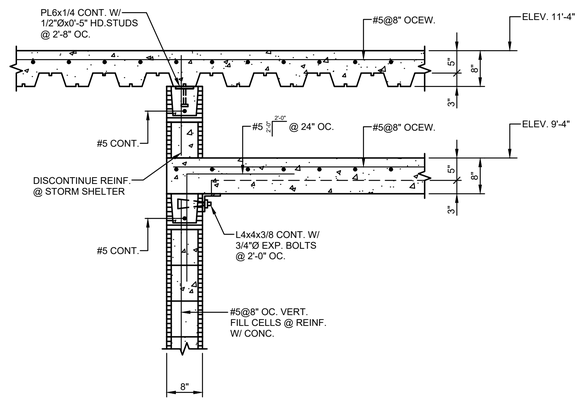


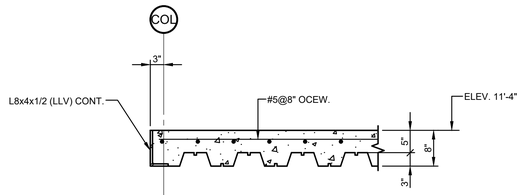
1 S7.1 **SECTION**
3/4" = 1'-0"



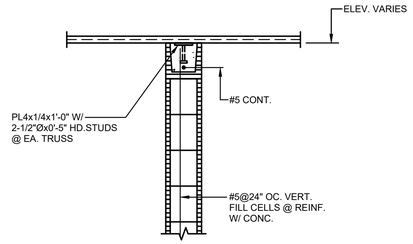
2 S7.1 **SECTION**
3/4" = 1'-0"



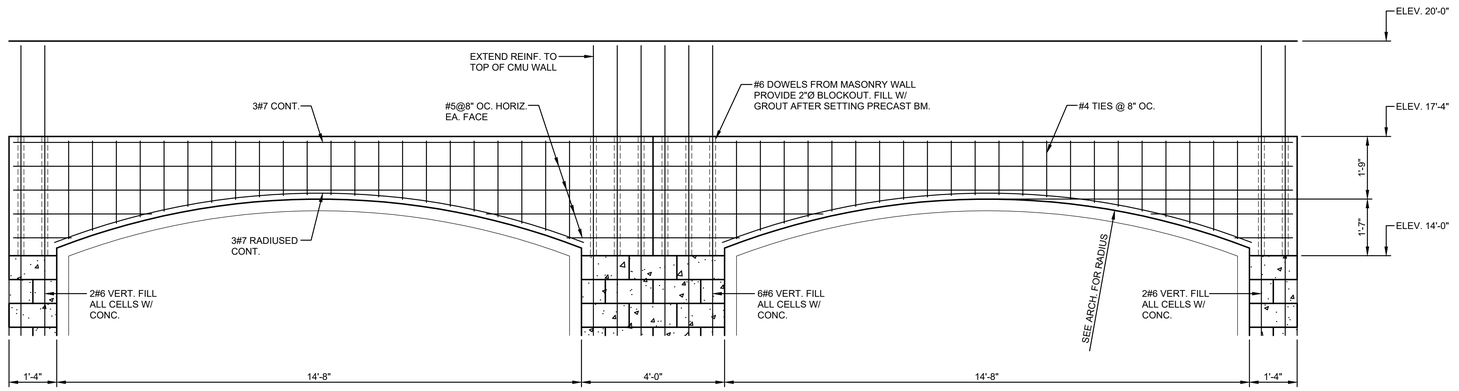
3 S7.1 **SECTION**
3/4" = 1'-0"



4 S7.1 **SECTION**
3/4" = 1'-0"



5 S7.1 **SECTION**
3/4" = 1'-0"



TYPICAL CONC. ARCH DETAIL
1/2" = 1'-0"

NOTES:
1. CAST CONCRETE ARCH BEAM ON SITE.
2. 4000 PSI CONCRETE.

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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, AND 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 13. 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/OR PERPENDICULAR TO BUILDING STRUCTURE UNLESS INDICATED OTHERWISE.
5. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PROJECT ENGINEERS FOR INSPECTION 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.
9. CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLING ANY SPRINKLER HEADS DIFFERENT FROM THE SPECIFIED SPRINKLERS HEADS.
10. CONTRACTOR SHALL OBTAIN APPROVAL OF "SPRINKLER HEAD TYPE" FROM ARCHITECT PRIOR TO INSTALLING ANY SPRINKLER HEADS.
11. CONTRACTOR SHALL PAINT ALL EXPOSED PIPING TO MATCH STRUCTURE. COORDINATE EXACT COLOR WITH ARCHITECT.

FIRE PROTECTION HYDRAULIC DEMANDS

1. SPRINKLER PROTECTION
   - A. ALL OFFICES, LOBBIES, VESTIBULES, LIVING AREAS, TOILETS, COMMON AREAS, CORRIDORS: LIGHT HAZARD 0.10 GPM OVER HYDRAULICALLY MOST REMOTE 1500 SQ. FT.
   - B. MECHANICAL EQUIPMENT ROOMS, KITCHENS, TRANSFORMER ROOMS, GENERAL PURPOSE STORAGE LESS THAN 100 SQ. FT.: ORDINARY HAZARD, GROUP 2, 0.20 GPM OVER HYDRAULICALLY MOST REMOTE 2000 SQ. FT.
   - C. GENERAL STORAGE, STORAGE HEIGHT LIMIT LESS THAN 12FT, LIMITED COMBUSTIBLES LESS THAN 25 GALLONS: ORDINARY GROUP 1 PER NFPA 13, 0.15 GPM PER 1500 SQ. FT.
2. HYDRAULIC CALCULATION SHALL BE CALCULATED WITH 10% SAFETY FACTOR OF SUPPLY CURVE.
3. FLOW DATA TO BE RESPONSIBILITY OF CONTRACTOR.

FIRE PROTECTION SHOP DRAWINGS AND SUBMITTALS

1. PROVIDE A NFPA 13 COMPLIANT SYSTEM TO PROVIDE COVERAGE TO NEW WORK AREA. 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 LAY-IN CEILINGS TO BE CENTERED IN TILES. COORDINATE EXACT LOCATION OF SPRINKLER HEADS IN HARD CEILINGS WITH ARCHITECT AND ENGINEER.
   - 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 CONTRACTORS 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. THE NICET LEVEL III DESIGNER SHALL BE AN EMPLOYEE OF FIRE PROTECTION CONTRACTOR.
4. ALL ELECTRICAL FIRE ALARM REQUIREMENTS TO BE COORDINATED WITH THE ELECTRICAL THE FLOW AND TAMPER SWITCHES TO BE PROVIDED UNDER FIRE PROTECTION CONTRACT. CONDUIT, ALARM WIRING AND PROGRAMMING THE RESPONSIBILITY OF THE FIRE ALARM CONTRACT AND SHALL BE COORDINATED WITH ELECTRICAL. NICET LEVEL III DESIGNER SHALL INSPECT PROJECT.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS PRIOR TO THE START OF THE SPRINKLER SYSTEM INSTALLATION.
6. HYDRAULIC CALCULATIONS AND SPRINKLER SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF AN ENGINEER LICENSED IN THE STATE AND BEAR HIS OR HER SEAL WITH SIGNATURE AND DATE.
7. MAXIMUM DESIGN VELOCITY SHALL BE 30 FEET PER SECOND.

FIRE PROTECTION DESIGN ANALYSIS

REFER TO ARCHITECTURAL PLANS FOR COMPLIANCE NFPA 101

TYPE OF CONSTRUCTION: REFER TO ARCHITECTURAL

OCCUPANCY: REFERENCE ARCHITECTURAL LIFE SAFETY PLAN

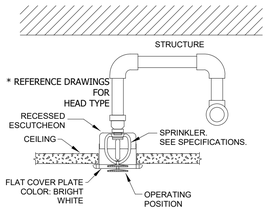
FIRE DESIGN CODES /STANDARDS

APPLICABLE CODES AND STANDARDS:

INTERNATIONAL BUILDING CODE (IBC)
INTERNATIONAL FIRE CODE (IFC)
INTERNATIONAL PLUMBING CODE (IPC)
NATIONAL ELECTRIC CODE (NEC)
NATIONAL FIRE ALARM CODE NFPA 72
NATIONAL ENERGY CODE
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13,24,101

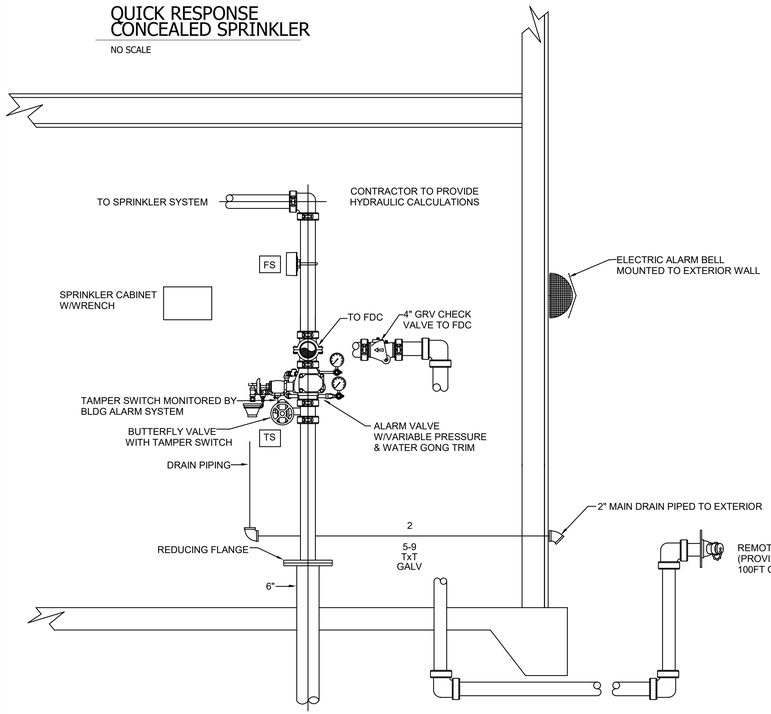
FIRE PROTECTION LEGEND

FIRE MAIN (F)	F — F
FIRE DRAIN LINE	FD — FD
BALL VALVE	
OS&Y VALVE (WITH TAMPER SWITCH)	TS — COORDINATE WITH ELECTRICAL FIRE ALARM SIGNAL TO BUILDING ALARM PANEL
FLOW SWITCH	FS — COORDINATE WITH ELECTRICAL FIRE ALARM SIGNAL TO BUILDING ALARM PANEL
	PIPE DOWN
	PIPE UP
GPM	GALLONS PER MINUTE
PSI	POUNDS PER SQUARE INCH
(S)C	CONCEALED PENDENT SPRINKLER HEAD (COVER SHALL BE FACTORY PAINTED W/ COLOR APPROVED BY ARCHITECT)
(S)U	UPRIGHT SPRINKLER HEAD
HT (S)U	UPRIGHT SPRINKLER HEAD (HIGH TEMPERATURE RATED)
S HT	SIDEWALL SPRINKLER HEAD (HIGH TEMPERATURE RATED)
ARCHITECT TO SELECT COLORS ON ALL SPINKLER HEADS	



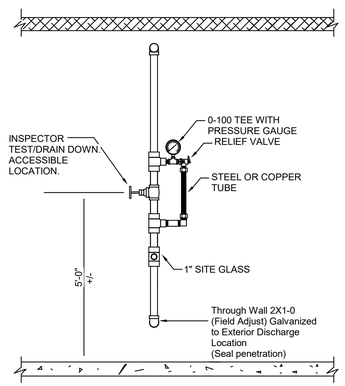
QUICK RESPONSE CONCEALED SPRINKLER

NO SCALE



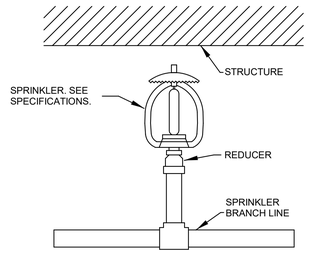
FIRE SERVICE ENTRY - BUILDING

NO SCALE



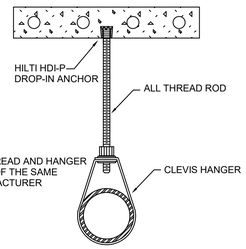
INSPECTOR'S TEST CONNECTION

NO SCALE



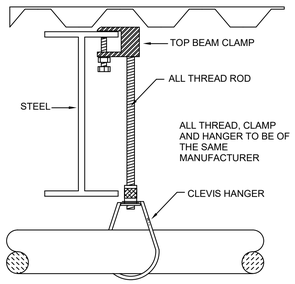
QUICK RESPONSE UPRIGHT SPRINKLER

NO SCALE



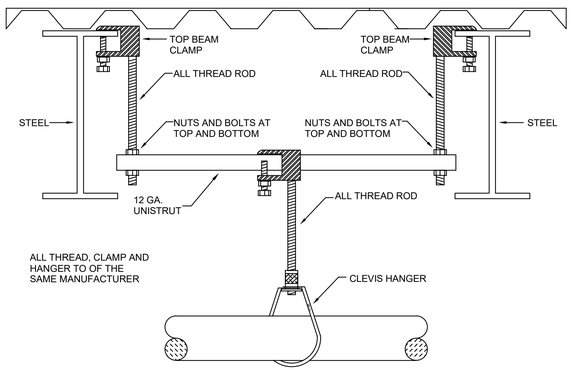
DROP-IN DETAIL

NO SCALE



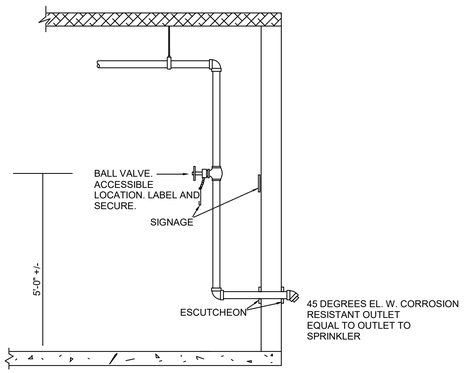
TOP BEAM CLAMP DETAIL

NO SCALE



TRAPEZE HANGER DETAIL - UNISTRUT

NO SCALE



LOW POINT DRAIN DOWN DETAIL (EXTERIOR)

NO SCALE

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number :
50191009

ALABAMA
No. 24747
PROFESSIONAL
12-30-2025
ENGINEER
WADE STEWART

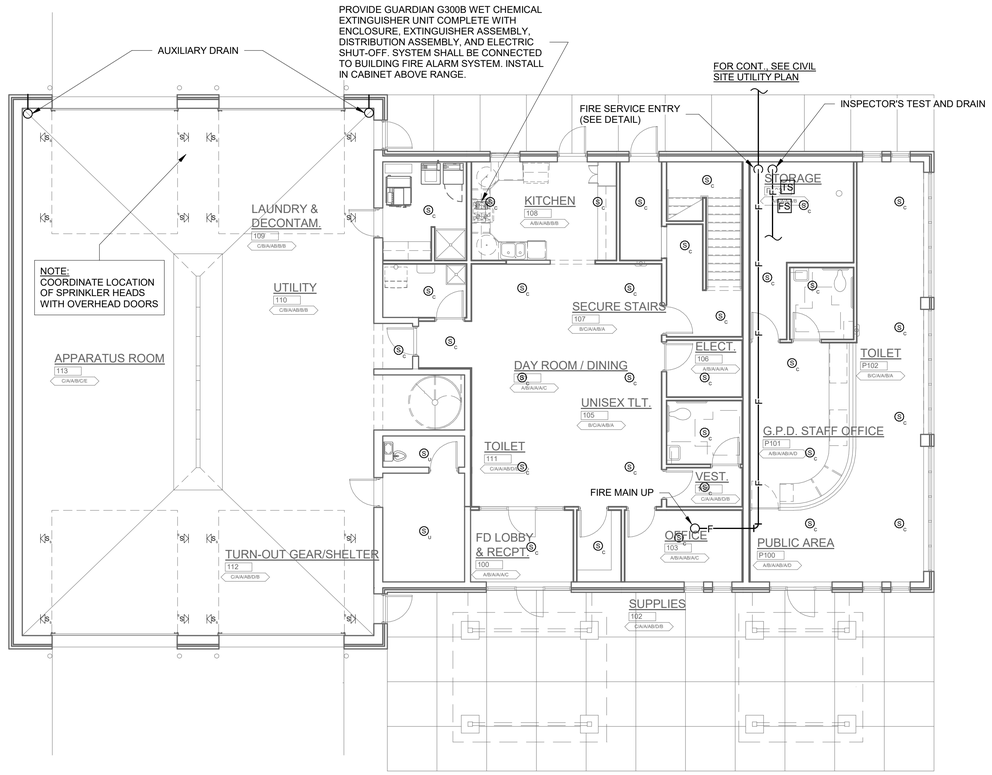
THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

FIRE PROTECTION SCHEDULES, DETAILS AND NOTES

DRAWN	ZDE
CHECKED	SMC
SCALE	AS NOTED
DATE	12-30-25
FILE	
JOB NO.	23-03
REVISIONS	

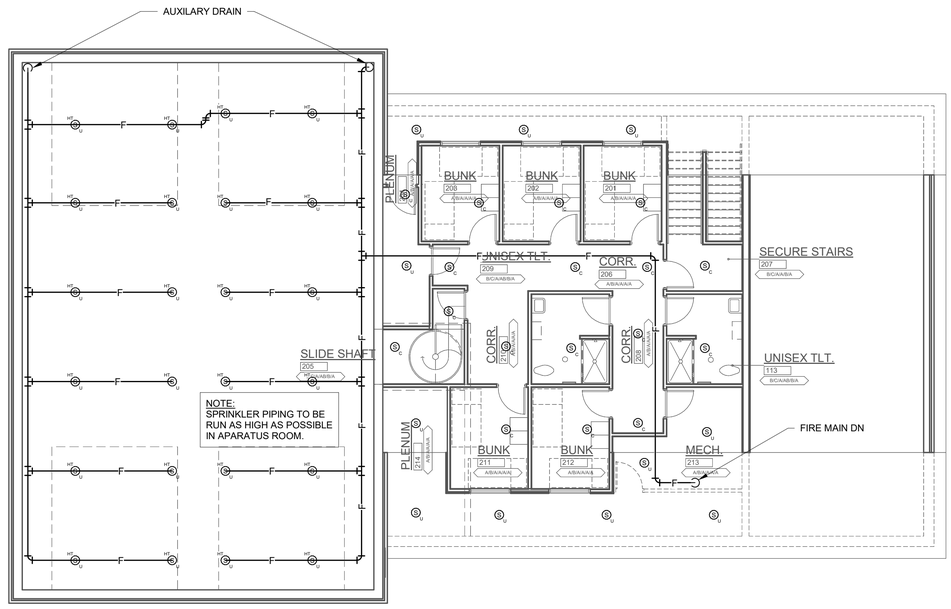
SHEET FP0.1 OF SHEETS



1 FIRE PROTECTION - FIRST FLOOR PLAN

1/8" = 1'-0"

NORTH



2 FIRE PROTECTION - SECOND FLOOR PLAN

1/8" = 1'-0"

NORTH

Dewberry

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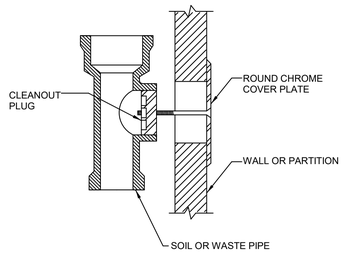
SHEET FP1.0 OF SHEETS

GENERAL NOTES

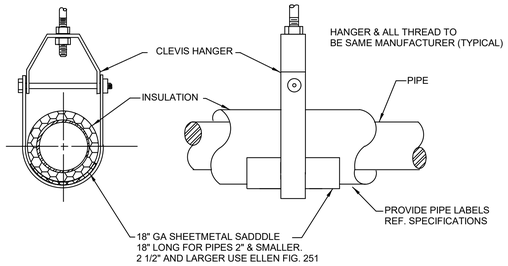
1. LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
3. ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"X18"X6" THICK CONCRETE PAD. (J.R. SMITH 4258 OR EQUAL.)
4. WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
5. ALL HORIZONTAL WATER AND VENT PIPING SHALL BE RUN ABOVE CEILING ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
6. ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
7. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
8. ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE MOUNTED 24" ABOVE FINISH GRADE OF FINISH FLOOR UNLESS OTHERWISE NOTED.
9. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
10. NO VENT THRU ROOF IS TO BE LOCATED WITHIN 10 FEET OF ANY BUILDING AIR INTAKES, PER CODE. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTORS.
11. DOMESTIC WATER PIPING AND FIRE PROTECTION PIPING LOCATED ABOVE THE CEILING, SHALL BE INSTALLED BELOW CEILING INSULATION.
12. CONTRACTOR SHALL COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
13. CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO ORDERING SINKS.
14. DOMESTIC WATER PIPING SHALL NOT BE INSTALLED IN EXTERIOR WALLS.
15. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
16. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING CODE.
17. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
18. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
19. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
20. THE LOCATION OF LAVATORIES AND WATER CLOSETS RELATIVE TO THE FINISHED WALL IS CRITICAL. REFER TO ARCHITECTURAL AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL WATER CLOSETS TO BE 18" FROM FINISH WALL TO CENTER OF WATER CLOSET.
21. WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
22. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
23. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
24. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
25. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. MAINTAIN ALL REQUIRED CLEARANCES.
26. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A PRICE, ORDERING MATERIALS OR PERFORMING ANY WORK. NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.
27. SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING CODE.
28. ALL FOOTINGS AT PLUMBING CHASE WALLS SHALL BE MIN 24" BELOW FINISHED GRADE TO COORDINATE WITH WASTE PIPING IN SLAB.
29. FIRESTOP ALL RATED WALL AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
30. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.
31. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

PLUMBING LEGEND

SOIL OR WASTE LINE		GAS REGULATOR	
VENT LINE		P-#	PLUMBING FIXTURE NUMBER
COLD WATER LINE		R1	RISER DIAGRAM NUMBER
HOT WATER LINE		AFF	ABOVE FINISH FLOOR
HOT WATER RETURN LINE		CO	CLEAN OUT
BALL VALVE		ABV	ABOVE
UNION		WS	WASTE STACK
PIPE TURNING UP		BFF	BELOW FINISH FLOOR
PIPE TURNING DOWN		VSTR	VENT STACK THRU ROOF
G — GAS PIPING		TMV	THERMOSTATIC MIXING VALVE
GAS COCK			PRESSURE REDUCING VALVE



WALL CLEANOUT
NO SCALE



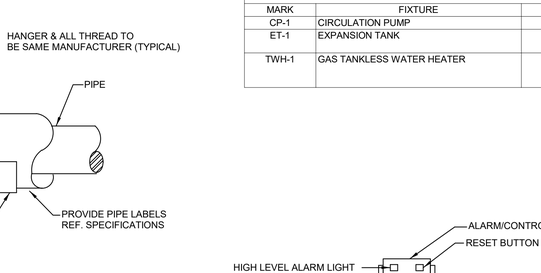
SUSPENDED PIPE SUPPORT
NO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	WASTE	CW	HW	REMARKS
FD	FLOOR DRAIN	3"	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
FS	FLOOR SINK	SEE PLANS	-	-	J.R. SMITH #3100, 8" SQUARE, PORCELAIN ENAMELED CAST IRON INTERIOR WITH 3/4 CAST IRON PORCELAIN ENAMELED GRATE AND DOME BOTTOM STRAINERS. PROVIDE WITH J.R. SMITH TRAP INSERT.
HC	HOSE CONNECTION	-	2"	-	CROCKER 5000 SERIES ANGLE HOSE VALVE. VALVE SHALL BE COMPATIBLE WITH OWNERS EQUIPMENT.
LTD	LAUNDRY TRENCH DRAIN	4"			H&M COMPANY POLYPROPYLENE DRAIN TROUGH WITH LINT FILTER. SIZE TROUGH TO MATCH LENGTH OF WASHER. TROUGH LID TO BE FLUSH WITH FINISH FLOOR.
MFD	MECHANICAL FLOOR DRAIN	3"	-	-	J.R. SMITH #2240 WITH SEDIMENT BUCKET. PROVIDE WITH J.R. SMITH TRAP INSERT.
OS-1	OIL/WATER SEPARATOR	SEE PLAN			J.R. SMITH #8599-50-100 COMPLETE WITH ANCHOR FLANGE, INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION. PROVIDE 12" EXTENSION IF REQUIRED FOR INSTALLATION. PROVIDE CLEAN-OUT ACCESS. PROVIDE HIGH LEVEL SENSOR AND CONTROL PANEL.
P-1	WATER CLOSET - ADA COMPLIANT	4"	1"	-	FLOOR MOUNTED - KOHLER K-96057-SS-0 COMPLETE SLOAN #111 FLUSH VALVE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT.
P-2	WATER CLOSET/LAVATORY COMBO UNIT	4"	1"	1/2"	PROVIDE AND INSTALL ACORN PENAL-WARE 26" WIDE LAV-TOILET COMBY-FRONT ACCESS MODEL 1426FA
P-3	LAVATORY - ADA COMPLIANT	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET. MUST MEET A.D.A. GUIDELINES.
P-4	DOUBLE BOWL SINK	1 1/2"	1/2"	1/2"	ELKAY LRAD-3321, LK-35 STRAINERS, SYMMONS S-23-3 FAUCET. MCGUIRE #8912 P-TRAP, CONTINUOUS WASTE OUTLET, AND #165 STOPS WITH SUPPLIES.
P-5	DISHWASHER	1 1/2"	-	1/2"	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. ROUGH AND CONNECT COMPLETE. PROVIDE BALL VALVE STOP ON SUPPLY WITH SHOCK ARRESTOR PDI SIZE "A" ON HOT WATER PIPING. PIPE WASTE DISCHARGE THRU WASTE AIR GAP MOUNTED IN SPARE DRILLING IN SINK LEDGE.
P-6	REF. ICE MAKER BOX	-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. PROVIDE IN WALL BEHIND REFRIGERATOR A GUY GRAY MODEL "B" 16 GAUGE ALL METAL BOX LESS DRAIN AND SUPPLIES. PROVIDE IN BOX A 1/2" BALL VALVE WITH 10 FEET OF 1/4" SOFT COPPER COILED IN BOX FOR CONNECTION TO REFRIGERATOR ICE MAKER.
P-7	WASHING MACHINE BOX (COMMERCIAL)	LTD	1/2"	1/2"	FURNISH AND SET IN PLACE UNDER ANOTHER SECTION. ROUGH AND CONNECT COMPLETE. PROVIDE BALL VALVE CUT OFF ON HOT AND COLD WATER SUPPLY INSTALL ABOVE CEILING A LINE SIZE RPZBP WITH STRAINER ON INLET SIDE OF BACKFLOW PREVENTER AND SHOCK ARRESTOR PDI SIZE "B" ON THE OUTLET SIDE. PIPE BACKFLOW PREVENTER WASTE THRU FACTORY MADE AIR GAP DOWN IN WALL TO TRENCH DRAIN.
P-8	WASHING MACHINE BOX (RESIDENTIAL)	3"	1/2"	1/2"	GUY GRAY # WB-200. PROVIDE SHOCK ARRESTORS PDI SIZE "B" ABOVE CEILING ON HOT AND COLD WATER LINES.
P-9	SHOWER VALVE	-	1/2"	1/2"	CHICAGO FAUCET 1907-CP THERMOSTATIC/PRESSURE BALANCING SHOWER VALVE, 151-ACP HAND SHOWER AND 56" GRAB BAR, AND TRIM. ADJUST FOR 109°F MAXIMUM TEMP. PROVIDE BACK PLATE.
P-10	MOP SINK	3"	1/2"	1/2"	STERN WILLIAMS #SBC-1700 (24" X 24") COMPLETE, T-35 HOSE WITH WALL HOOK, STAINLESS STEEL BACKSPLASH AND CHICAGO FAUCET #897 FAUCET.
P-11	ICE MACHINE	FS	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. ROUGH AND CONNECT COMPLETE. PROVIDE BALL VALVE STOP ON SUPPLY AND PIPE WASTE(S) TO FLOOR DRAIN. PROVIDE WATTS LF9D ON COLD WATER SUPPLY IF REQUIRED BY LOCAL CODES. PIPE RELIEF FULL SIZE TO FS.
P-12	SHOWER - ADA COMPLIANT	2"	1/2"	1/2"	CHICAGO FAUCET 1907-CP THERMOSTATIC/PRESSURE BALANCING SHOWER VALVE, 151-ACP HAND SHOWER AND 56" GRAB BAR, AND TRIM. ADJUST FOR 109°F MAXIMUM TEMP. PROVIDE BACK PLATE. PROVIDE ACRYLIC KOHLER MODEL 9479 60X36 ARCHER CENTER DRAIN W/TILING FLANGE AND K-9132 DRAIN.
SD	SHOWER DRAIN	2"	-	-	J.R. SMITH #2010 WITH 4" ROUND STRAINER. PROVIDE WITH J.R. SMITH TRAP INSERT.
TD	TRENCH DRAIN	4"	-	-	J.R. SMITH #9930 PRE-SLOPED, POLYETHYLENE CHANNELS WITH SLOTTED GALVANIZED STEEL GRATE, SECURED TO CHANNELS, PROVIDE P-TRAP INSERT BY J.R. SMITH.
WH	WALL HYDRANT	-	3/4"	-	J.R. SMITH #5509-QT, WITH INTEGRAL BACKFLOW PREVENTER, LATCHING COVER, FREEZE-PROOF AND OF PROPER LENGTH FOR WALL IN WHICH INSTALLED, ALL BRONZE BOX. VALVE SEAT MUST BE ON BUILDING SIDE OF EXTERIOR WALL INSULATION. INSTALL WITH CENTER LINE 24" ABOVE FINISH GRADE. PROVIDE OWNER WITH ONE (1) LOOSE KEY FOR EACH WALL HYDRANT.

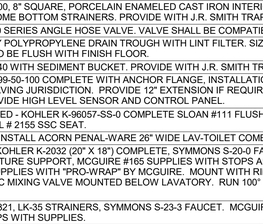
WATER HEATER SCHEDULE

MARK	FIXTURE	ELEC INFO.	GAS INPUT	REMARKS
CP-1	CIRCULATION PUMP	1/12 HP, 115/1/60.	-	ARMSTRONG COMPASS PROVIDE WITH TIMER AND AQUASTAT EQUAL TO HONEYWELL L6006A.
ET-1	EXPANSION TANK	-	-	AMTROL THERM - X-TROL #ST-5 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
TWH-1	GAS TANKLESS WATER HEATER	120 V CONTROL PANEL	199.9 CFH	NAVIEN NPE-240S-NG COMMERCIAL TANKLESS COMPLETE WITH COMMERCIAL SERVICE VALVE ON BOTH INLET AND OUTLET. UNIT SHALL PROVIDE 4.4 GPM AT 90°F RISE. SET OUT TEMPERATURE AT 140°F. WALL MOUNT WITH ADEQUATE CLEARANCE FOR PIPING AND SERVICING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



DETAIL of OIL/WATER SEPARATOR
NO SCALE

PRESSURE REGULATORS FOR GAS APPLIANCES SHALL BE LISTED IN ACCORDANCE WITH ANSI Z21.80/CSA 6.22.



TYP. GAS CONNECTION
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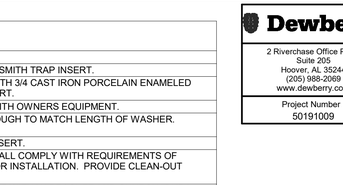
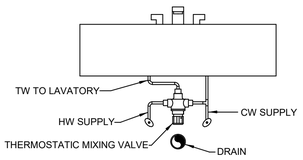
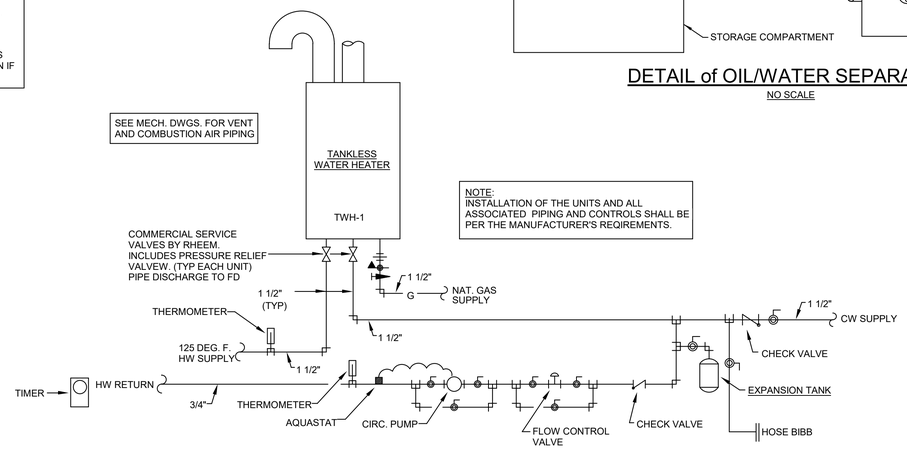


NOTES:
1. APPLICATION: FOR STRUT MOUNTED, 4 INCH AND SMALLER, COFFEE PIPE WITH FOAMED PLASTIC (ARMAFLEX) OR FIBERGLASS INSULATION.
2. ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION.
3. FOR COLD PIPE APPLICATION, APPLY ADHESIVE TO END OF FOAMED PLASTIC INSULATION PRIOR TO INSERTING INTO COUPLING.

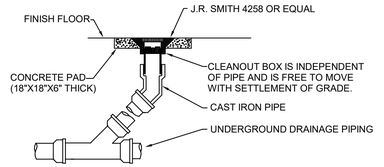
STRUT-MOUNTED PIPING SUPPORT INSULATION COUPLING DETAIL
NO SCALE



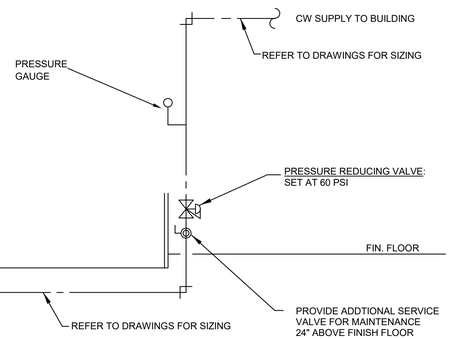
DETAIL OF TMV BELOW LAVATORY
NO SCALE



DETAIL OF PIPING AT TANKLESS WATER HEATER
NO SCALE



DETAIL OF CLEANOUT TO GRADE
NO SCALE



DETAIL OF WATER ENTRY
NO SCALE

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ALABAMA No. 24747 PROFESSIONAL ENGINEER 12-30-2025 WADE STEWART

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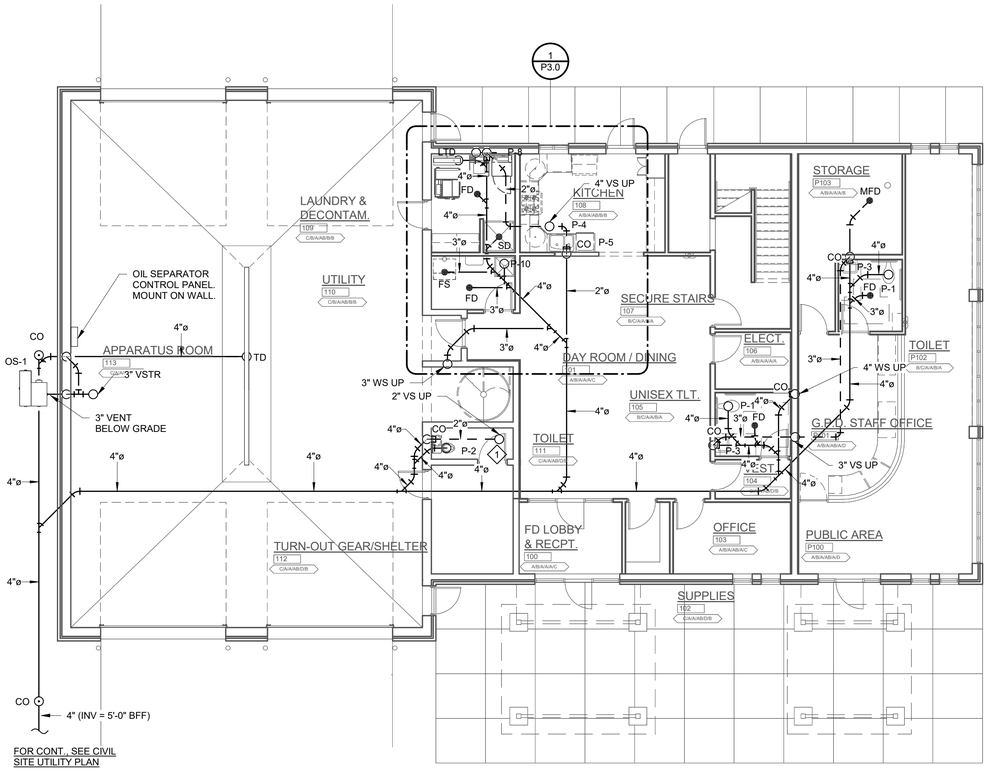
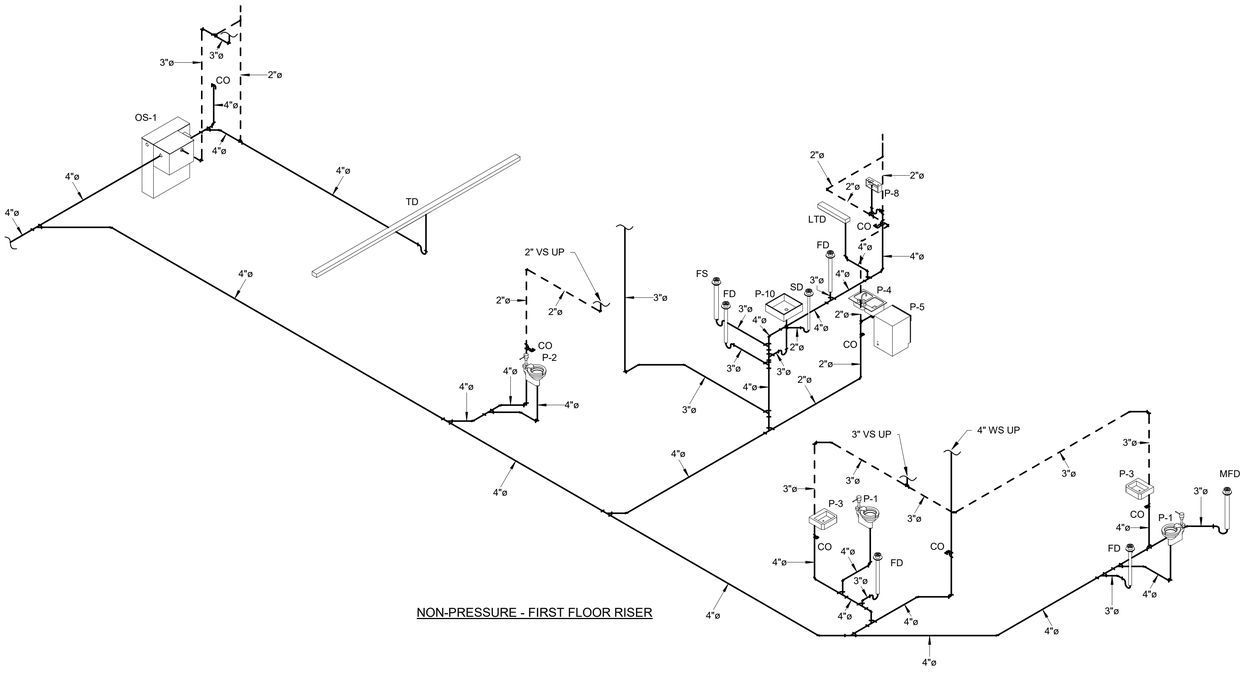
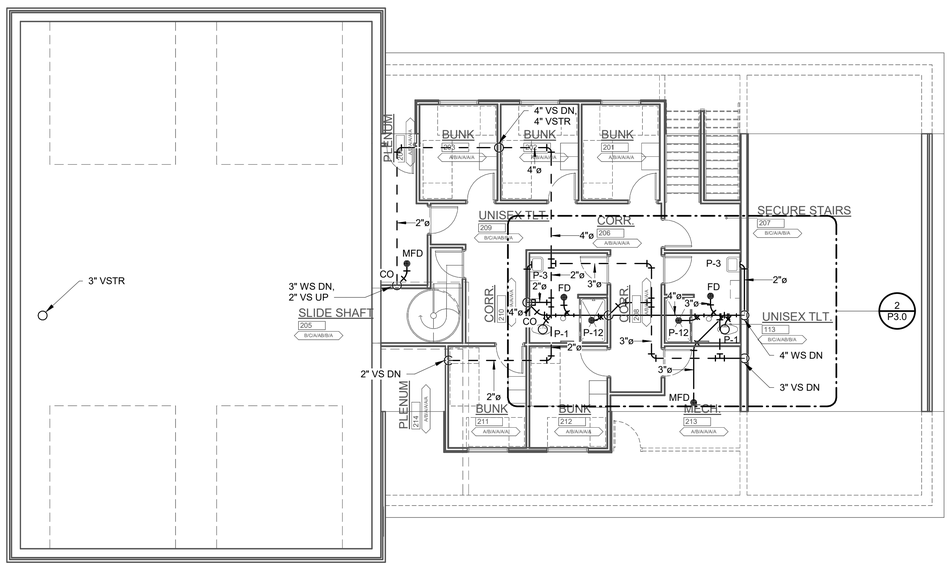


1 NON-PRESSURE PIPING - FIRST FLOOR PLAN
1/8" = 1'-0"

NORTH

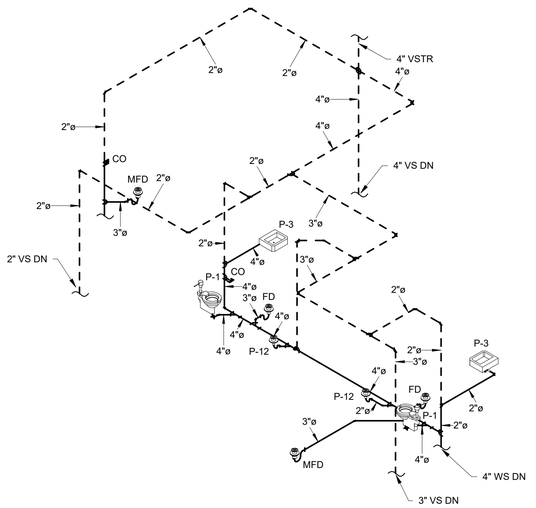


NON-PRESSURE - FIRST FLOOR RISER



2 NON-PRESSURE PIPING - SECOND FLOOR PLAN
1/8" = 1'-0"

NORTH



NON-PRESSURE - SECOND FLOOR RISER

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number :
50191009

ALABAMA
No. 24747
PROFESSIONAL
12-30-2025
ENGINEER
WADE STEWART

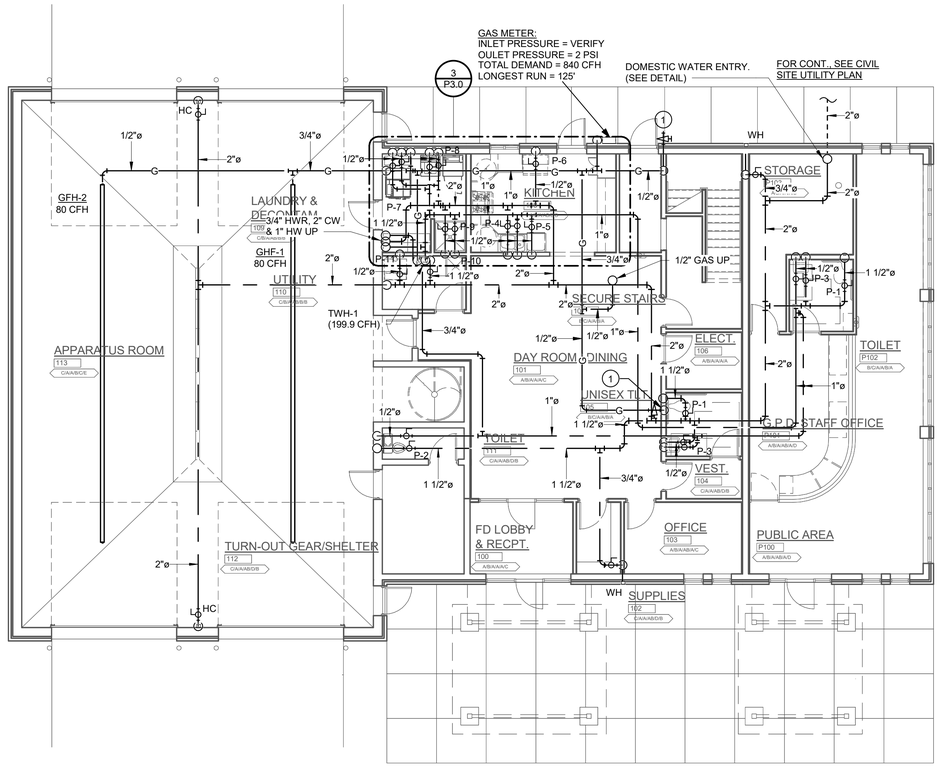
THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

NON-PRESSURE PIPING FLOOR PLANS

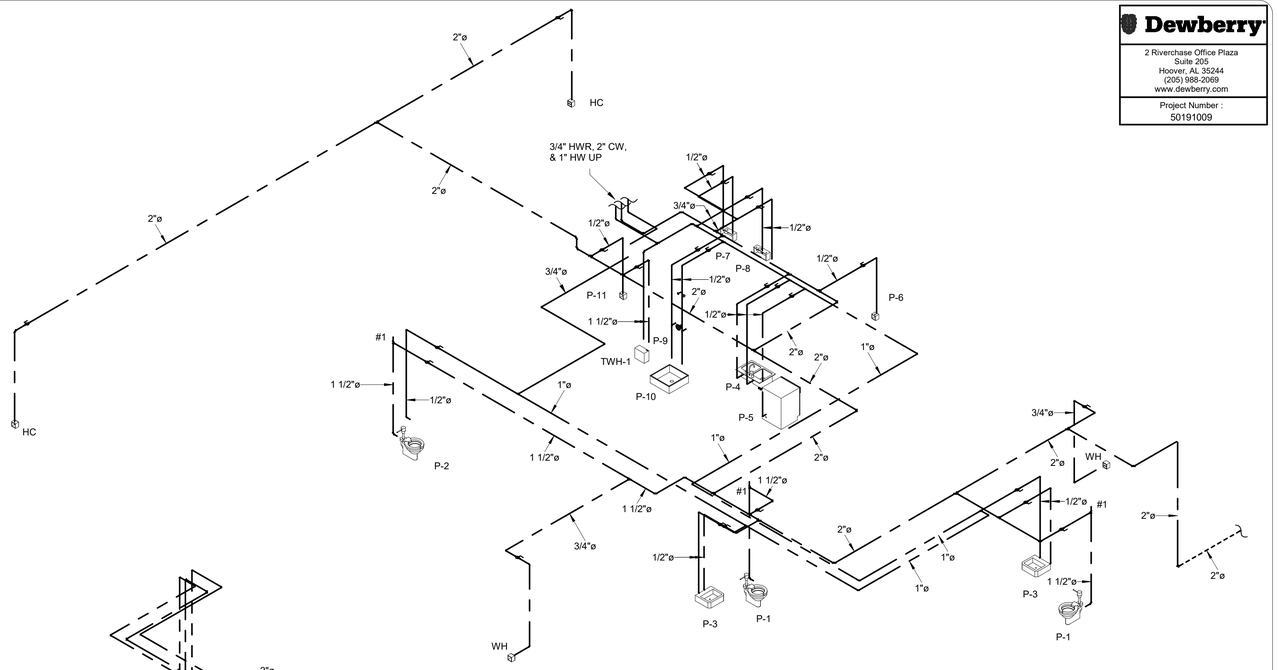
DRAWN	ZDE
CHECKED	SMC
SCALE	AS NOTED
DATE	12-30-25
FILE	
JOB NO.	23-03
REVISIONS	

SHEET P1.0 OF SHEETS

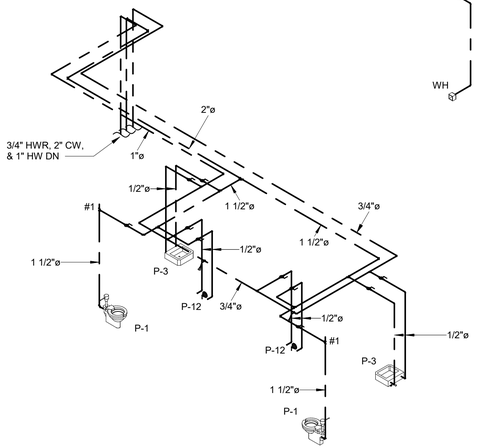


1 PRESSURE PIPING - FIRST FLOOR PLAN
1/8" = 1'-0"

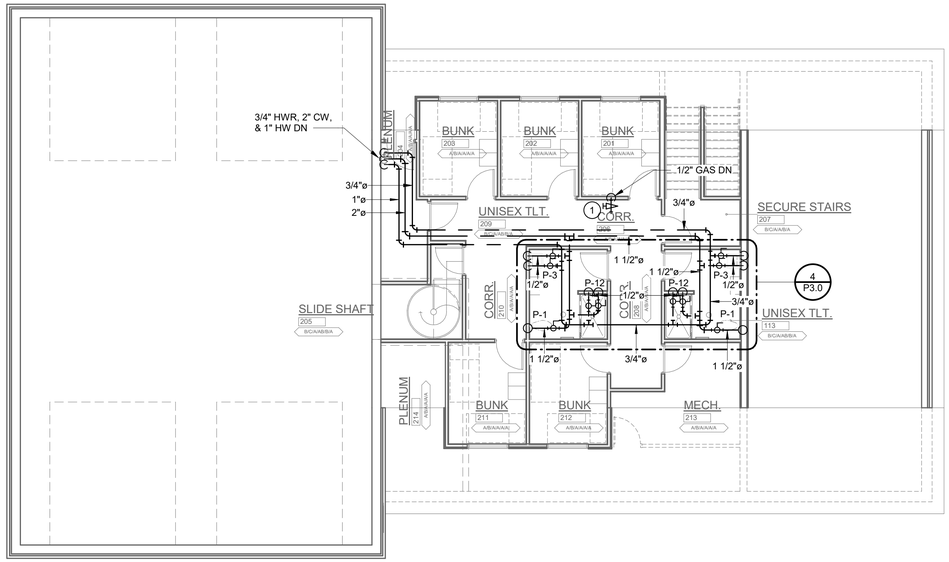
NORTH



PRESSURE - FIRST FLOOR RISER



PRESSURE - SECOND FLOOR RISER

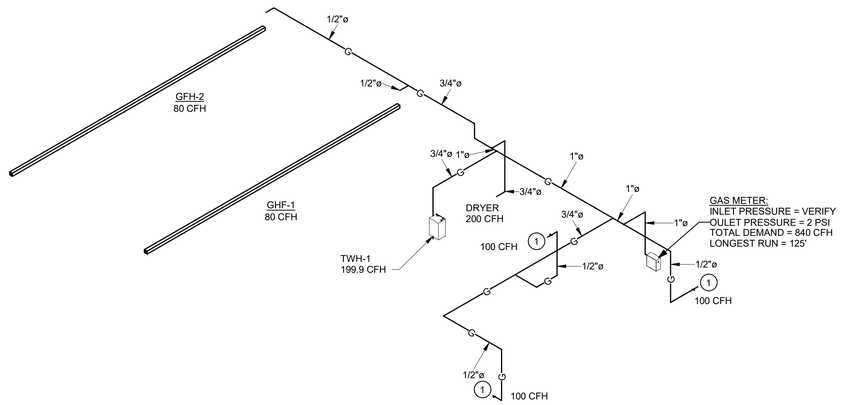


2 PRESSURE PIPING - SECOND FLOOR PLAN
1/8" = 1'-0"

NORTH

PRESSURE KEY NOTES

1. VALVE AND CAP GAS CONNECTION FOR OWNER FURNISHED EQUIPMENT.



GAS RISER

NOTE : # 1 — SHOCKTROL TO BE ZURN SERIES Z-1700 OR EQUAL. SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL SHOCKTROLS THRU ACCESS PANELS OR LAY-IN CEILINGS.

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Project Number : 50191009

ALABAMA — No. 24747 PROFESSIONAL — 12-30-2025 — ENGINEER — WADE STEWART

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

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PRESSURE PIPING FLOOR PLANS

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SHEET P2.0 OF SHEETS

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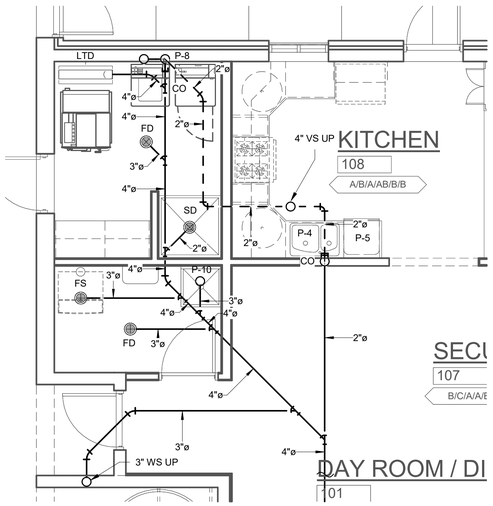
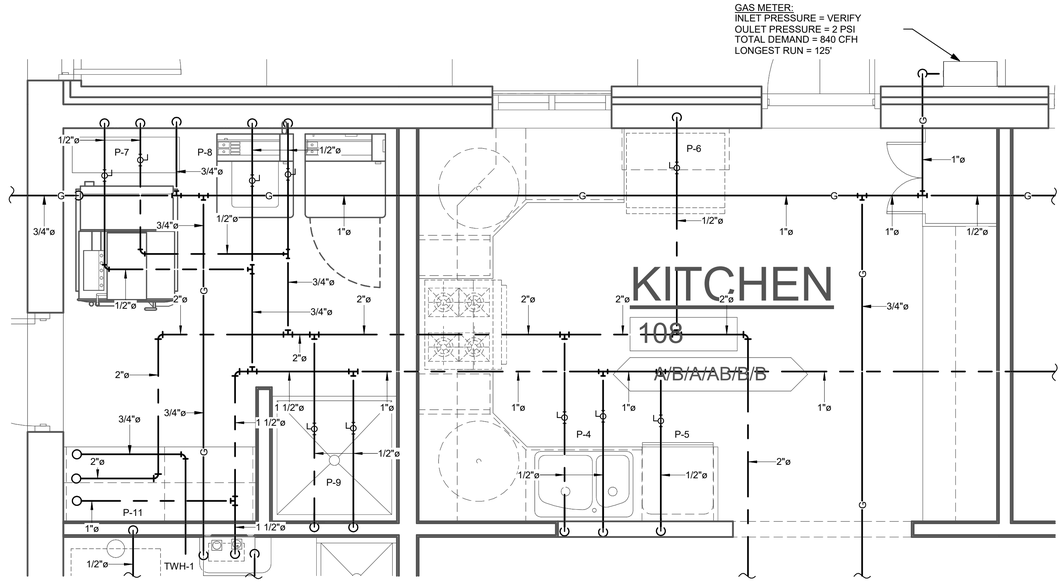
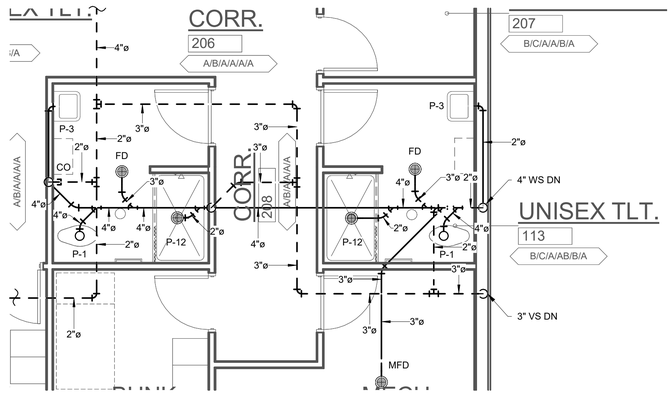


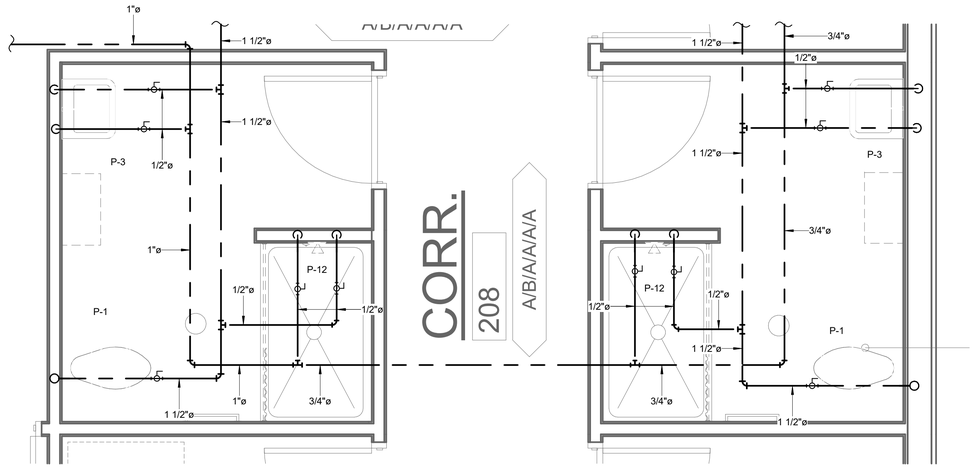
NORTH 1 ENLARGED NON-PRESSURE FIRST FLOOR PIPING PLAN
1/4" = 1'-0"



NORTH 3 ENLARGED PRESSURE FIRST FLOOR PIPING PLAN
1/2" = 1'-0"



NORTH 2 ENLARGED NON-PRESSURE SECOND FLOOR PIPING PLAN
1/4" = 1'-0"



NORTH 4 ENLARGED PRESSURE SECOND FLOOR PIPING PLAN
1/2" = 1'-0"

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GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

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PLUMBING ENLARGED PLANS

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CHECKED	SMC
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DATE	12-30-25
FILE	
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REVISIONS	

SHEET P3.0 OF SHEETS

DUCTWORK LEGEND

(CFM) S	SUPPLY DIFFUSER
(CFM) R	RETURN GRILLE
(CFM) E	EXHAUST GRILLE
(CFM) T	TRANSFER AIR GRILLE
(CFM) SR	SIDEWALL REGISTER
ø	ROUND DUCT SYMBOL
W X H	RECTANGULAR DUCT (WIDTH X HEIGHT)
	EXISTING DUCTWORK, PIPING, OR EQUIPMENT TO REMAIN.
	EXISTING DUCTWORK, PIPING, OR EQUIPMENT TO BE REMOVED.
	RECTANGULAR SUPPLY DUCT TURNING UP
	RECTANGULAR SUPPLY AIR DUCT TURNING DOWN
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN
	FLAT OVAL TURNING UP.
	FLAT OVAL TURNING DOWN.
	ROUND DUCT TURNING DOWN
	ROUND DUCT TURNING UP
	MAXIMUM 5' FLEXIBLE DUCT ALL BRANCH DUCTS
	RECTANGULAR 90° ELBOW WITH TURNING VANES FOR SUPPLY.
	RISE OR DROP IN DUCT
	RECTANGULAR BRANCH OFF OF RECTANGULAR DUCT WITH MANUAL DAMPER
	CONICAL SPIN-IN WITH MANUAL DAMPER
MD	MANUAL DAMPER
FD	FIRE DAMPER (PROVIDE ACCESS DOOR)
AD	AUTOMATIC DAMPER
SFD	COMBINATION SMOKE/FIRE DAMPER (PROVIDE ACCESS DOOR)
Ⓣ	TEMPERATURE SENSOR
Ⓢ	WALL SWITCH
Ⓗ	HUMIDITY SENSOR
Ⓒ	CO2 MONITOR
	CONNECT TO EXISTING, FIELD VERIFY EXACT SIZE AND LOCATION.

HVAC ABBREVIATIONS

A	Amps
AAV	Automatic Air Vent
ACF	Air Curtain Fan
AC	Air Conditioning
ACCU	Air Cooled Condensing Unit
AD	Automatic Damper
ADJ	Adjustable
AF	Airflow
AFF	Above Finished Floor
AFM	Air Flow Monitor
AHU	Air Handling Unit
AI	Analog Input
AMB	Ambient
AO	Analog Output
AP	Air Purifier
ARCH	Architectural
AS	Air Separator
ASHRAE	American Society of Heating, Refrigerating, and Air-Conditioning Engineers
ATV, AV	Atmospheric Vent
B	Boiler
BAS	Building Automation System
BBD	Boiler Blowdown
BD	Backdraft Damper
BHP	Brake Horsepower
BI	Binary Input
BMS	Building Management System
BO	Binary Output
BOD	Bottom of Duct
BT	Buffer Tank
BTU	British Thermal Unit
BTUH	British Thermal Unit per Hour
C / CD / CO2	Carbon Dioxide
C	Convertor
CA	Compressed Air
CCC	Closed Circuit Cooler
CCU / CU	Condensing Unit
CD	Condensate Drain
CF	Chemical Feeder
CFM	Cubic Feet per Minute
CH	Chiller
CHC	Chilled Water Coil
CHWP / CHP	Chilled Water Pump
CHWR / CHR	Chilled Water Return Piping
CHWS / CHS	Chilled Water Supply Piping
CO	Carbon Monoxide
CONT	Controls , or , Continue
CP	Condensate Pump
CRU / CRAC	Computer Room Unit
CR	Condensate Return
CRU	Condensate Return Unit (Steam System)
CT	Cooling Tower
CT	Current Transducer
CU	Condensing Unit
CUH	Cabinet Unit Heater
CV	Constant Volume
Cv	Valve Coefficient
CVR	Constant Volume - Reheat
CDWP / CWP	Condenser Water Pump
CWR	Condenser Water Return Piping
CWS	Condenser Water Supply Piping
D	Drain Piping
DB	Dry Bulb
DBL	Double
DBF	Dryer Booster Fan
DEG	Degree
DG	Door Grille
DI	Digital Input
DIA	Diameter
DL	Drum Louver
DMSS	Ductless Mini-split System
DN	Down
DO	Digital Output
DOAS	Dedicated Outdoor Air System (No Wheel)
DP	Differential Pressure Sensor
DRE	Dryer Exhaust
DSD	Duct Smoke Detector
DTR	Dual Temperature Water Return
DTS	Dual Temperature Water Supply
DWG	Drawing
DWH	Dishwasher Hood
DWH	Domestic Water Heater
E	Exhaust Grille
EA	Exhaust Air
EAT	Entering Air Temp
EBH	Electric Baseboard Heater
ECH	Electric Cabinet Heater
ECH	Electric Ceiling Heater
ECM	Electronically Commutated Motor
EDH	Electric Duct Heater
EF	Exhaust Fan
EHC	Electric Heating Coil
ELEC	Electrical
EMCS	Energy Management Control System
EMG	Expanded metal grille
ENT	Entering
ERU	Energy Recovery Unit (with cooling or heating)
ERV	Energy Recovery Ventilator (no cooling or heating)
ESP	External Static Pressure
ET	Expansion Tank
ETC	Etcetera
EUH	Electric Unit Heater
EWH	Electric Wall Heater
EWT	Entering Water Temperature
EX / (X) / E	Existing
F	Degrees Fahrenheit
FCU	Fan Coil Unit
FD	Fire Damper
FOR	Fuel Oil Return
FOS	Fuel Oil Supply
FPI	Fins Per Inch
FPM	Feet Per Minute
FS	Flow Switch
FT	Foot / Feet
FV	Face Velocity
FZ	Freezestat
GA	Gauge
GAL	Gallons
GALV	Galvanized
GC	General Contractor
GCHR	Chilled Water Return Piping with Glycol
GCHS	Chilled Water Supply Piping with Glycol
GDH	Gas Duct Heater
GEO	Geothermal
GHWR	Hot Water Return Piping with Glycol
GHWS	Hot Water Supply Piping with Glycol
GPH	Gallons Per Hour
GPM	Gallons Per Minute
GSHP	Ground Source Heat Pump
GUH	Gas Fired Unit Heater
H	Humidity Sensor , Humidifier, or Height
H2O	Water
HD	Head
HOA	Hand-Off-Auto
HP	Horsepower, Heat Pump
HPC	High Pressure Condensate
HPR	High Pressure Steam Return
HPS	High Pressure Steam Supply
HRR	Heat Recovery Return
HRS	Heat Recovery Supply
HVAC	Heating, Ventilation, and Air-Conditioning
HWC	Hot Water Coil
HWP	Hot Water Pump
HWR	Hot Water Return
HWS	Hot Water Supply
HWT	Heating Water Temperature
HX	Heat Exchanger - plate and frame or shell and tube
ID	Inside Diameter
IN	Inches
IPLV	Integrated Part Load Value
IRH	Infra-Red Radiant Heater
KEF	Kitchen Exhaust Fan
KGH	Kitchen Grease Hood
KRH	Kitchen Range Hood
KW	Kilowatt
L	Louver
LAT	Leaving Air Temperature
LBS	Pounds
LF	Linear Feet
LIN	Linear
LPC	Low Pressure Condensate
LPR	Low Pressure Steam Return
LPS	Low Pressure Steam Supply
LRA	Locked Rotor Amps
LSD	Linear Slot Diffuser
LVG	Leaving
LWT	Leaving Water Temperature
M	Fan / Pump Motor, or Motorized Damper, or Meter
MA	Mixed Air
MAT	Mixed Air Temperature
MAU / MUA	Make-up Air Unit
MAX	Maximum
MBH	1,000 British Thermal Units per Hour
MCA	Minimum Circuit Amps
MD	Manual Damper
MERV	Minimum Efficiency Reporting Value
MFD / FD	Mechanical Floor Drain
MFG	Manufacturer
MIN	Minimum
MOCP	Maximum Overcurrent Protection
MPC	Medium Pressure Condensate
MPS	Medium Pressure Steam
MU	Make-up Water
NC	Normally Closed or Noise Criteria
NG	Natural Gas
NO	Normally Open or Number
NPLV	Non-Standard Part Load Value
NPSH	Net Positive Suction Head
NTS	Not To Scale
OSA / OA	Outside Air
OAT	Outdoor Air Temperature
OD	Outside Diameter
OS	Occupancy Sensor
P	Pressure or Pressure Sensor
PD	Pressure Drop
PH	Phase
PHC	Preheat Coil
PIU	Fan Powered Terminal Unit
PPM	Parts Per Million
PR / PCR	Pumped Condensate Return (Steam System)
PRS	Steam Pressure Reducing Station
PSI	Pounds per Square Inch
PSIA	PSI Atmospheric
PSIG	PSI Gauge
PRV	Pressure Reducing Valve
PTAC	Packaged Terminal Air Conditioner
PTHP	Packaged Terminal Heat Pump
QTY	Quantity
R	Return Grille
R	Radius, Rise, or Remove
RA	Return Air
RAT	Return Air Temperature
RCP	Reflected Ceiling Plan
RD	Refrigerant Discharge
RF	Return Fan, Relief Fan
RF	Refrigerant
RH	Relative Humidity, Reheat
RHC	Reheat Coil
RL	Refrigerant Liquid Line
RLA	Rated Load Amps
RPM	Revolutions Per Minute
RS	Refrigerant Suction Line
RTU	Roof Top Unit
S	Supply Diffuser
S	Air / Dirt Separator
SA	Supply Air
SA / DSA	Duct Mounted Sound Attenuator
SAT	Supply Air Temperature
SCH	Schedule
SD	Smoke Damper
SEC	Seconds
SEF	Smoke Exhaust Fan
SF	Supply Fan, Square Foot
SFD / FSD	Combination Smoke & Fire Damper
SP	Static Pressure
SR	Supply Register
SS	Split System, Stainless Steel
T&P	Temperature and Pressure
T	Thermostat or Temperature Sensor
T	Transfer Grille
T, TEMP	Temperature
T-STAT	Thermostat
TON	Cooling Tons (12,000 BTUH)
TD	Transfer Duct
TOD	Top of Duct
TS	Temperature Sensor
TSP	Total Static Pressure
TYP	Typical
UH	Unit Heater
UNO	Unless Noted Otherwise
UV	Unit Ventilator
V, VOLT	Voltage
V	Volume
VEL	Velocity
VF	Ventilation Fan
VFD	Variable Frequency Drive
VAV	Variable Air Volume
VVR	Variable Volume - Reheat
W	Width or Watts
W/	With
WB	Wet Bulb
WC	Water Column
WG	Water Gauge
WEG	Wall Exhaust Grille
WH	Wall Hydrant
WER	Wall Exhaust Register
WPD	Water Pressure Drop
WRG	Wall Return Grille
WRR	Wall Return Register
WSHP	Water Source Heat Pump
X	Uncorrected Fraction of Outdoor Air (System)
Y	Corrected Fraction of Outdoor Air (System)
Z	Fraction of Outdoor Air (Critical Space)

HVAC CONTROLS LEGEND

T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CO2 MONITOR
CP	120V HVAC CONTROLS POWER
TS	AVERAGING TEMPERATURE SENSOR
H	DUCT MOUNTED HUMIDITY SENSOR
AO	ANALOG OUTPUT
AI	ANALOG INPUT
DO	DIGITAL OUTPUT
DI	DIGITAL INPUT
DSD	DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR.
HOA	HAND-OFF-AUTO MAGNETIC STARTER
SP	DUCT STATIC PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
	INTERLOCK WITH FIRE ALARM SYSTEM
M	FAN/PUMP MOTOR
VFD	VARIABLE FREQUENCY DRIVE
CT	CURRENT TRANSDUCER
FS	FLOW SWITCH
	DIRECTION OF FLOW
TS	PIPE MOUNTED TEMPERATURE SENSOR
	2-WAY AUTOMATIC VALVE
	3-WAY AUTOMATIC VALVE
H-O-A	HAND-OFF-AUTO SWITCH
AFM	AIR FLOW MONITOR. (PROVIDE ACCESS DOOR AT EACH AIR FLOW MONITOR.)

PIPING LEGEND

CHS	CHILLED WATER SUPPLY PIPING
CHR	CHILLED WATER RETURN PIPING
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
D	DRAIN PIPING
AAV OR	AAV-AUTO .AIR VENT (MARKED OR SHOWN)
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	TWO-WAY AUTO CONTROL VALVE.
	THREE-WAY AUTO CONTROL VALVE.
	BUTTERFLY VALVE.
	BUTTERFLY VALVE.
	PRESSURE REDUCING VALVE.
	PIPE TURNING UP.
	PIPE TURNING DOWN.
	BRANCH OFF TOP OF MAIN.
	BRANCH OFF BOTTOM OF MAIN.
	BRANCH OFF SIDE OF MAIN.
	CALIBRATED BALANCING VALVE
	ECCENTRIC REDUCER
	STRAINER (Y)
	FLEXIBLE CONNECTION IN PIPING
	UNION
	PETES PLUG
	SLOPE DOWN IN DIRECTION OF ARROW.
	CHECK VALVE
	ASME PRESSURE RELIEF VALVE.

AIR DEVICE LEGEND

MARK	EXAMPLE	DESCRIPTION	SIZE	BASIS OF DESIGN
"S"	200S / CFM	PLAQUE FACE CEILING DIFFUSER WITH ROUND NECK. ALL CEILING DIFFUSERS TO HAVE A 24X24 CEILING PANEL (EXCEPT WHERE SHOWN AS 12X12). ALL CEILING DIFFUSERS TO HAVE ROUND NECKS.	CFM SHOWN ON PLANS. NECK & RUN-OUT SIZED PER THE FOLLOWING: CFM / NECK SIZE / RUN-OUT SIZE 0 - 100 / 6" / 6" 101 - 200 / 8" / 8" 201 - 300 / 10" / 10" 301 - 500 / 12" / 12" 501 - 750 / 15" / 15" 751 - 1000 / 18" / 18"	TITUS OMNI
"LD"	200LD / CFM	LOUVER FACE CEILING DIFFUSER WITH SQUARE NECK. ALL CEILING DIFFUSERS TO HAVE A 24X24 CEILING PANEL (EXCEPT WHERE SHOWN AS 12X12). ALL CEILING DIFFUSERS TO HAVE SQUARE NECKS.	CFM SHOWN ON PLANS. NECK & RUN-OUT SIZED PER THE FOLLOWING: CFM / NECK SIZE / RUN-OUT SIZE 0 - 100 / 6"x6" / 6" 101 - 200 / 9"x9" / 8" 201 - 300 / 12"x12" / 10" 301 - 500 / 15"x15" / 12" 501 - 750 / 18"x18" / 15" 751 - 1000 / 21"x21" / 18"	TITUS TDCA-AA
"R", "E", "T"	200R / CFM; R24 / SQUARE NECK SIZE	CEILING MOUNTED RETURN (R), EXHAUST (E), OR TRANSFER (T) EGGCRATE GRILLE. ALL GRILLES IN A LAY-IN CEILING TO HAVE A 24X24 CEILING PANEL.	CFM SHOWN ON PLANS. NECK SIZED PER THE FOLLOWING: CFM / NECK SIZE 0 - 100 / 6x6 101 - 200 / 8x8 201 - 350 / 10x10 351 - 500 / 12x12 501 - 750 / 14x14 751 - 950 / 16x16 951 - 1200 / 18x18 1201 - 1500 / 20x20 1501 - 2000 / 24x24	TITUS 50F
SR	SR12X6 200 / CFM / W x H	SIDEWALL SUPPLY REGISTER.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 272FL
WRG / WTG	WRG12X6 200 / CFM / W x H	WALL RETURN GRILLE / WALL TRANSFER GRILLE.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 350FL

NOTES:

1. SEE SPECIFICATIONS FOR FINISH AND CONSTRUCTION MATERIAL FOR EACH AIR DEVICE.
2. COORDINATE WITH ARCHITECT'S CEILING PLAN FOR LAY-IN OR SURFACE MOUNTING OF CEILING MOUNTED AIR DEVICES.
3. COORDINATE LOCATIONS OF CEILING MOUNTED AIR DEVICES WITH LIGHT FIXTURES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS.

VEHICLE EXHAUST SYSTEM SCHEDULE

VEF-1, VEF-2, VEF-3, VEF-4

VEHICLE EXHAUST SYSTEM SHALL BE AIRVAC 911 OR APPROVED EQUAL. EACH UNIT SHALL BE A VERTICAL INTAKE STYLE AND SHALL HAVE 3/4 HP FAN MOTOR @ 115/1 (13 FLA, 20 MOCP) AND 4 STAGE FILTER PACK (STAGE 1 - 30% EFF. PRE FILTER, STAGE 2 - 98% EFF. HEPA FILTER, STAGE 3 & 4 - 50/50 BLENDED GAS PHASE EXTRACTOR). PROVIDE ONE WALL MOUNTED CONTROL PANEL TO CONTROL ALL 4 UNITS. CONTROL PANEL SHALL BE EQUIPPED WITH ON-OFF-AUTO SELECTOR AND SHALL REQUIRE ONE 120/1 CIRCUIT. ACTIVATION METHOD FOR EXHAUST SYSTEM SHALL BE TWO INFRARED DOUBLE BEAM SENSORS LOCATED AT EACH BAY DOOR AREA AS WELL AS TEN INDUSTRIAL TRACK MOUNTED SWITCHES LOCATED AT EACH BAY DOOR. ACTIVATION CONTROL SHALL BE UL 508A LISTED. MANUFACTURER SHALL HAVE BEEN SELLING THE PROPOSED PRODUCT FOR 10+ YEARS. ALL MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN FIVE (5) YEARS, EXCLUDING OBVIOUS MISUSE.

MAX. WEIGHT PER UNIT: 200 LBS.

AIR PURIFICATION SCHEDULE

FLOW	MFG MODEL NO.	GPS QUANTITY	MINIMUM NEEDLE SPACING	V	MOUNTING LOCATION	MINIMUM ION DENSITY (IONS/CC)
CV	GPS-FC	1 PER IHP	1 EVERY 3/4"	208	UNIT SERVED	40 MILLION PER 0.75"

NOTES:

1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
2. MOUNT GPS-FC TO AIR INLET SIDE OF COOLING COIL.
3. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES.
4. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
5. ALL MFGS MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL.
6. PROVIDE STAND ALONE ION DETECTOR TO COMMUNICATE WITH THE BAS. SYSTEMS WITHOUT ION DETECTORS SHALL NOT BE ACCEPTABLE.
7. IONIZATION BAR TO HAVE A MINIMUM OF 1 NEEDLEPOINT EVERY 0.75" OF COIL WIDTH. SYSTEMS WITH NEEDLES FURTHER APART SHALL NOT BE ACCEPTABLE.
8. IONIZATION SYSTEMS WITH MULTIPLE ION MODULES MOUNTED TO A BAR SHALL NOT BE AN ACCEPTABLE SUBSTITUTE.
9. IONIZATION SYSTEMS THAT DO NOT USE EPOXY TO PROTECT THE ION CIRCUITRY SHALL NOT BE ACCEPTABLE.
10. IONIZATION OUTPUT SHALL BE A MINIMUM OF 40 MILLION IONS/CC FOR EVERY 0.75" OF COIL WIDTH.
11. BIPOLAR IONIZATION UNIT SHALL DE-ENERGIZE UPON SYSTEM SHUTDOWN.

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number :
50191009

ALABAMA
No. 24747
PROFESSIONAL
12-30-2025
ENGINEER
WADE STEWART

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

MECHANICAL LEGEND, SCHEDULES & NOTES

DRAWN	JWS
CHECKED	JWS
SCALE	AS NOTED
DATE	12-30-25
FILE	
JOB NO.	23-03
REVISIONS	

SHEET M0.1 OF SHEETS

INDOOR HEAT PUMP UNIT SCHEDULE

AIR HANDLER UNIT TYPE:

1. SPLIT SYSTEM AC UNIT. INDOOR AIR HANDLER WITH DX COIL, AUXILIARY ELECTRIC HEATER, SUPPLY FAN, & MATCHING OUTDOOR UNIT.

NOTES:

1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
2. HEATING CAPACITY IS NET CAPACITY @ 47°F AMBIENT.
3. UL LISTED. AHRI CERTIFIED.
4. SEE PLANS FOR AIRFLOW CONFIGURATION.

ACCESSORIES:

1. SINGLE POINT POWER CONNECTION.
2. FILTER RACK WITH 1" THICK FILTERS - MERV 8.
3. MULTI-SPEED BLOWER MOTOR.
4. TWO STAGE COOLING.
5. ELECTRIC HEAT.
6. DISCONNECT SWITCH PROVIDED AND INSTALLED BY ELECTRICAL.
7. PROGRAMMABLE THERMOSTAT - 24/7.

MARK	TYPE	SUPPLY FAN			OSA (CFM)	DX COOLING COIL CAPACITY				DX HEATING CAPACITY		ELEC HEAT		ELECTRICAL					WEIGHT	ACCESSORIES	BASIS OF DESIGN
		AIRFLOW (CFM)	E.S.P. (IN.-W.G.)	MOTOR (HP)		NOMINAL TONS	TOTAL (MBH)	SENSIBLE (MBH)	EAT (DB°F/WB°F)	TOTAL (MBH)	EAT (DB°F)	KW	STAGES	V	PH	HZ	MCA (A)	MOCP (A)			
AC-1	1	1600	0.8	0.75	215 CFM	4	48	36	77.5/64.8	44	62.8	11.3	1	208 V	3	60	46.1	50	190	1,2,3,5,6,7	BRYANT
AC-2	1	1600	0.8	0.75	250 CFM	4	48	36	77.5/64.8	44	61.7	11.3	1	208 V	3	60	46.1	50	190	1,2,3,5,6,7	BRYANT
AC-3	1	1600	0.8	0.75	80 CFM	4	48	36	77.5/64.8	44	63.5	11.3	1	208 V	3	60	46.1	50	190	1,2,3,5,6,7	BRYANT

OUTDOOR HEAT PUMP SCHEDULE

TYPE:

1. OUTDOOR HEAT PUMP

NOTES:

1. CAPACITY TO BALANCE RESPECTIVE INDOOR AC UNIT.
2. COOLING CAPACITY RATED AT 95°F.
3. HEATING CAPACITY RATED AT 47°F.
4. UL LISTED, AHRI CERTIFIED.
5. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING TYPE TAMPER-RESISTANT CAPS. ANY ACCESS DEVICE REQUIRED SHALL BE LEFT ON SITE WITH THE OWNER AT PROJECT CLOSE OUT.

ACCESSORIES:

1. PHASE PROTECTION.
2. MICROPROCESSOR CONTROLS.
3. ISOLATION VALVES.
4. LIQUID LINE REFRIGERANT FILTER DRIER.
5. ANTI SHORT CYCLE TIMER.
6. HAIL / VANDAL GUARDS.
7. THERMAL EXPANSION VALVE.

MARK	TYPE	NOMINAL TONS	COOLING CAPACITY (MBH)	HEATING		ELECTRICAL					EFFICIENCY		BASIS OF DESIGN
				HEATING CAPACITY (MBH)	STAGES	V	PH	HZ	MCA (A)	MOCP (A)	COOLING (SEER,EER/IEER)	HEATING (HSPF,COP)	
HP-1	1	4	48	44	1	208 V	3	60	17.4	30	15.2	4.2	BRYANT
HP-2	1	4	48	44	1	208 V	3	60	17.4	30	15.2	4.2	BRYANT
HP-3	1	4	48	44	1	208 V	3	60	17.4	30	15.2	4.2	BRYANT

CEILING HEATER SCHEDULE

HEATER TYPE:

1. ELECTRIC CEILING HEATER.

ACCESSORIES:

1. SURFACE MOUNTING.
2. WALL MOUNTED THERMOSTAT.
3. DISCONNECT SWITCH.
4. HIGH LIMIT CONTROLS.
5. RADIAL DIFFUSER.

MARK	SIZE (kW)	ELECTRICAL			ACCESSORIES	BASIS OF DESIGN
		V	PH	HZ		
ECH-1	3.5	208	1	60	1,2,3,4,5	MARKEL 3470

DEHUMIDIFIER SCHEDULE

UNIT TYPE:

1. HORIZONTAL DEHUMIDIFIER.
2. VERTICAL DEHUMIDIFIER.

NOTE:

ELECTRICAL TO PROVIDE DEDICATED 15 AMP CIRCUIT.

ACCESSORIES:

1. WALL MOUNTED HUMIDITY SENSOR.
2. SPRING VIBRATION ISOLATORS.
3. MERV 13 FILTER.
4. AUXILIARY DRAIN PAN.
5. CONDENSATE PUMP.

MARK	TYPE	WATER REMOVAL	AIRFLOW (CFM)	ELECTRICAL				ACCESSORIES	UNIT WEIGHT (LBS)	BASIS OF DESIGN
				V	PH	HZ	MOCP			
DEH-1	1	134 PINTS/DAY	360	120 V	1	60	15	1,3	130	SANTE FE
DEH-2	1	134 PINTS/DAY	360	120 V	1	60	15	1,3	130	SANTE FE
DEH-3	1	134 PINTS/DAY	360	120 V	1	60	15	1,3	130	SANTE FE

WALL HEATER SCHEDULE

HEATER TYPE:

1. ELECTRIC WALL HEATER.

ACCESSORIES:

1. SURFACE MOUNTING.
2. UNIT MOUNTED THERMOSTAT.
3. CONCEALED ON/OFF SWITCH.
4. HIGH LIMIT CONTROLS.
5. BUILT-IN CIRCUIT BREAKER.

MARK	SIZE (kW)	ELECTRICAL			ACCESSORIES	BASIS OF DESIGN
		V	PH	HZ		
EWH-1	2	208	1	60	1,2,3,4,5	MARKEL 3450
EWH-2	2	208	1	60	1,2,3,4,5	MARKEL 3450
EWH-3	2	208	1	60	1,2,3,4,5	MARKEL 3450

FAN SCHEDULE

FAN TYPE:

1. CEILING MOUNTED EXHAUST FAN.
2. CENTRIFUGAL SQUARE INLINE - DIRECT DRIVE.
3. PROPELLER WALL FAN - BELT DRIVE.

FAN ACCESSORIES:

1. BACKDRAFT DAMPER.
2. DISCONNECT SWITCH.
3. ALUMINUM CEILING GRILLE.
4. 5A-120V FAN SPEED CONTROLLER.
5. SPRING VIBRATION ISOLATORS.
6. MOTOR SIDE GUARD.
7. GRAVITY SHUTTER.
8. WALL COLLAR.
9. PROVIDE EC MOTOR FOR SOFT START. FAN TO BE CONNECTED TO LIGHTS AND TO BE ON EMERGENCY POWER (WALL SWITCH).

MARK	FAN TYPE	AIRFLOW (CFM)	E.S.P. (IN.-W.G.)	WHEEL SIZE (INCHES)	SOUND CRITERIA (SONES/dBA)	RPM	MOTOR (HP / W)	ELECTRICAL			INTERLOCK WITH	WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN
								V	PH	HZ				
EF-1	1	70	0.5"	6	5 SONES	840	15 W	120 V	1	60	LIGHTS	25	1,2,3,4,5	COOK GC
EF-2	1	70	0.5"	6	5 SONES	840	15 W	120 V	1	60	LIGHTS	25	1,2,3,4,5	COOK GC
EF-3	1	140	0.5"	7	3.5 SONES	1160	55 W	120 V	1	60	LIGHTS	25	1,2,3,4,5	COOK GC
EF-4	1	140	0.5"	7	3.5 SONES	1160	55 W	120 V	1	60	LIGHTS	25	1,2,3,4,5	COOK GC
EF-5	1	60	0.5"	6	5 SONES	840	15 W	120 V	1	60	LIGHTS	25	1,2,3,4,5	COOK GC
EF-6	1	150	0.5"	7	5 SONES	1160	55 W	120 V	1	60	LIGHTS	25	1,2,3,4,5	COOK GC
EF-7	1	70	0.5"	6	5 SONES	840	15 W	120 V	1	60	LIGHTS	25	1,2,3,4,5	COOK GC
VF-1	3	4000	0.25"	24	19.1 SONES	990	0.5 HP	120 V	1	60	T'STAT AND CO SENSOR	85	2,6,7,8	COOK AW
VF-2	3	4000	0.25"	24	19.1 SONES	990	0.5 HP	120 V	1	60	T'STAT AND CO SENSOR	85	2,6,7,8	COOK AW
VF-3	2	120	0.75"	7	5 SONES	1160	0.25 HP	120 V	1	60	WALL SWITCH	25	1,2,4,5,9	COOK GN

GAS FIRED RADIANT TUBE HEATER SCHEDULE

UNIT TYPE:

1. GAS FIRED RADIANT TUBE HEATER.

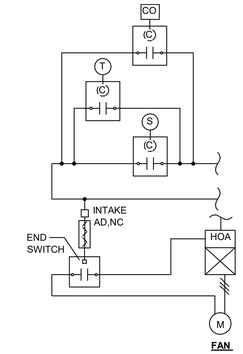
ACCESSORIES:

1. PROVIDE OPTIONAL OUTDOOR COMBUSTION AIR INLET KIT.
2. PROVIDE "U" BEND TUBE.

CONTROL NOTES:

UNIT HEATER SHALL BE CONTROLLED BY A TWO-STAGE WALL MOUNTED THERMOSTAT SET TO 60°F (ADJ.). MECHANICAL TO PROVIDE ALL CONTROL WIRING FROM UNIT HEATER TO THERMOSTAT.

MARK	TYPE	NOMINAL LENGTH	INPUT	ELECTRICAL			ACCESSORIES	BASIS OF DESIGN
				V	PH	HZ		
GFH-2	1	40 FT	80 MBH	115	1	60	1,2	REZNOR VPT-80



FAN

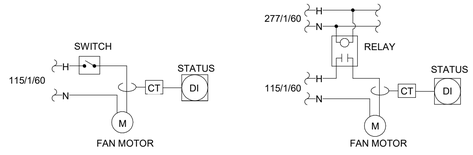
CONTROL SEQUENCE:

FAN:

VENTILATION FAN SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT AND A WALL MOUNTED SWITCH. THERMOSTAT SHALL BE SET TO 80°F (ADJ.), AND THE CARBON MONOXIDE SETPOINT SHALL BE 35 PPM. WHENEVER THE SWITCH IS ON OR THE TEMPERATURE RISES ABOVE SETPOINT OR THE CARBON MONOXIDE LEVEL RISES ABOVE SETPOINT, THE AUTOMATIC DAMPER ASSOCIATED WITH THE VENTILATION FAN SHALL OPEN AND THE VENTILATION FAN SHALL RUN.

VENTILATION FAN CONTROLS

NO SCALE

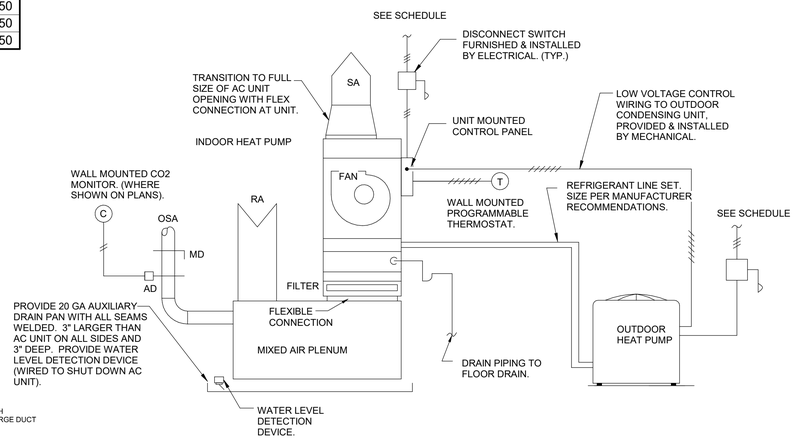


EXHAUST FAN CONTROLLED BY SWITCH. EXHAUST FAN CONTROLLED BY LIGHTING CIRCUIT.

THE BAS SHALL MONITOR FAN STATUS VIA A CURRENT TRANSDUCER.

EXHAUST FAN CONTROLS

NO SCALE



SPLIT SYSTEM CONTROL SEQUENCE:

EACH AC UNIT SHALL BE STARTED AND STOPPED BY WALL MOUNTED PROGRAMMABLE THERMOSTAT, SUBJECT TO FACTORY SAFETIES AND THE DUCT MOUNTED SMOKE DETECTOR (WHERE INDICATED ON PLANS OR SCHEDULE).

WHEN AC UNIT AND CORRESPONDING CONDENSING UNIT IS ENERGIZED, THE AC UNIT SUPPLY FAN SHALL START.

DURING OCCUPIED HOURS, THE THERMOSTAT SHALL ENERGIZE THE OUTDOOR HEAT PUMP CONTROLS UPON A RISE IN ROOM TEMPERATURE PROVIDE COOLING BY LOADING AND UNLOADING COMPRESSORS IN STAGES AS NEEDED TO SATISFY SPACE TEMPERATURE SETPOINT (74°F - ADJUSTABLE) DURING SUMMER MONTHS. UPON A DROP IN SPACE TEMPERATURE DURING WINTER MONTHS, THE OUTDOOR HEAT PUMP SHALL STAGE ON TO MAINTAIN SPACE TEMPERATURE SETPOINT (70°F - ADJUSTABLE). IF THE HEAT PUMP CANNOT SATISFY SPACE TEMP, THE ELECTRIC HEAT SHALL STAGE ON. OCCUPIED HOURS TO BE DETERMINED BY THE OWNER. RECOMMENDED OCCUPIED HOURS ARE MONDAY THRU FRIDAY, 7 A.M. TO 6 P.M.

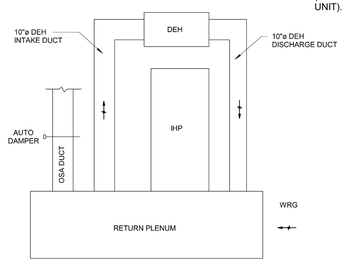
PROVIDE NIGHTTIME SETBACK TEMPERATURE THRU PROGRAMMABLE THERMOSTAT TO MAINTAIN 78°F (SUMMER), 66°F (WINTER), AFTER HOURS. UPON ACTIVATION OF NIGHT LOW LIMIT THERMOSTAT UNIT SHALL OPERATE IN OCCUPIED MODE UNTIL SATISFIED.

FOR AC UNITS WITH WALL MOUNTED CO2 MONITOR, AUTO DAMPER TO OPEN WHEN CO2 RISES ABOVE 1000 PPM.

FOR AC UNITS WITHOUT WALL MOUNTED CO2 MONITOR, AUTO DAMPER TO BE CONTROLLED BY WALL MOUNTED TIME CLOCK (SEE DETAIL).

SPLIT SYSTEM CONTROLS (NO BUILDING AUTOMATION SYSTEM)

NO SCALE



DEHUMIDIFIER FAN SHALL RUN SUBJECT TO ITS ONBOARD CONTROLLER, DEH SHALL TAKE MIXED AIR FROM THE RESPECTIVE RETURN PLENUM OR SPACE SERVED AND PROVIDE SUPPLY AIR AT THE R.H. SETPOINT (APPROX. 50%) BACK INTO THE RETURN PLENUM.

DEHUMIDIFIER CONTROL SEQUENCE

NO SCALE

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
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MECHANICAL DETAILS AND CONTROLS

DRAWN	JWS
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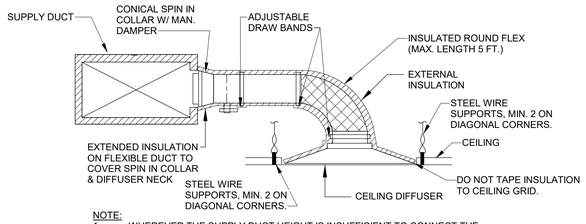
SHEET M0.2 OF SHEETS



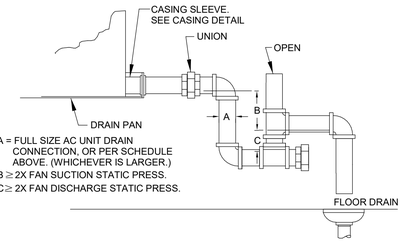
NOTE:

1. WHEREVER THE SUPPLY DUCT HEIGHT IS INSUFFICIENT TO CONNECT THE SPIN-IN, THE SPIN-IN MAY BE CONNECTED TO THE TOP OR BOTTOM OF THE DUCT. IF THE BRANCH DUCT MUST BE CONNECTED TO THE SIDE OF THE MAIN DUCT, USE A RECTANGULAR BRANCH DUCT CONNECTION OF EQUAL AIR VELOCITY AND TRANSITION TO ROUND DUCT. REFER TO SPECIFICATION FOR MAXIMUM TURNS IN FLEX DUCT.
2. PROVIDE EXTERNAL INSULATION ON ALL ROUND BRANCH DUCTWORK. SEE SPECS FOR THICKNESS AND EXTENT.
3. PROVIDE EXTERNAL INSULATION ON BACK SIDE OF CEILING DIFFUSERS. THICKNESS TO MATCH BRANCH DUCT INSULATION THICKNESS.

CEILING DIFFUSER INSTALLATION DETAIL

NO SCALE

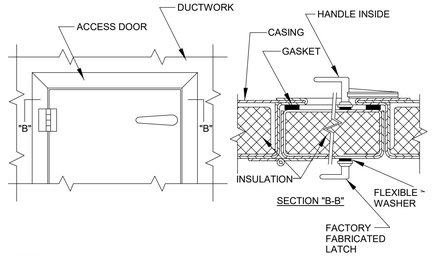
MINIMUM CONDENSATE PIPE SIZE	
AC TONS	MIN. DRAIN SIZE
0 TO 20	1"
21 TO 40	1-1/4"
41 TO 60	1-1/2"
61 TO 100	2"
101 TO 250	3"
251 & LARGER	4"



A = FULL SIZE AC UNIT DRAIN CONNECTION, OR PER SCHEDULE ABOVE. (WHICHEVER IS LARGER.)
B ≥ 2X FAN SUCTION STATIC PRESS.
C ≥ 2X FAN DISCHARGE STATIC PRESS.

AC UNIT DRAIN TRAP DETAIL

NO SCALE

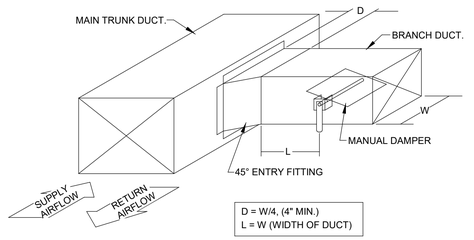


NOTES:

1. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.

ACCESS DOOR DETAIL

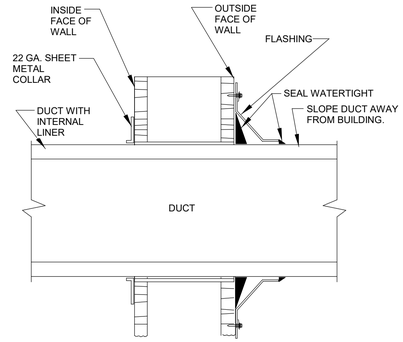
NO SCALE



D = W/4, (4" MIN.)
L = W (WIDTH OF DUCT)

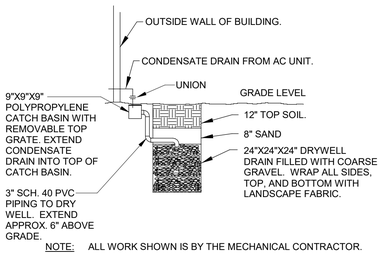
DUCT BRANCH CONNECTION

NO SCALE



DUCTWORK THRU OUTSIDE WALL DETAIL

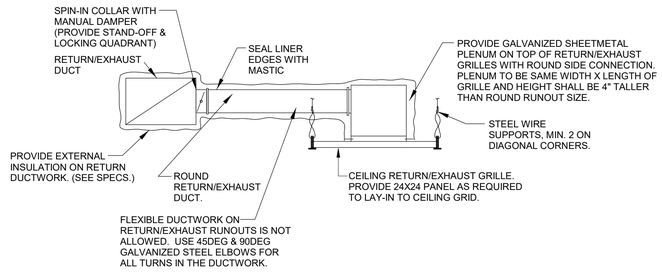
NO SCALE



NOTE: ALL WORK SHOWN IS BY THE MECHANICAL CONTRACTOR.

DRY WELL DETAIL

NO SCALE

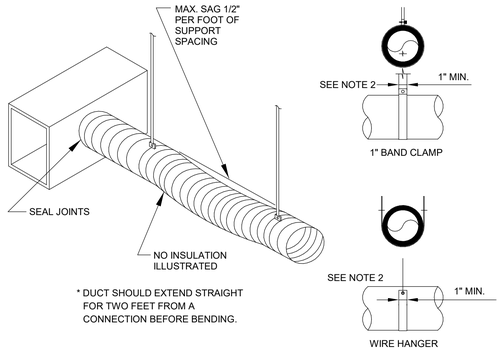


NOTE:

WHEREVER THE RETURN/EXHAUST DUCT HEIGHT IS INSUFFICIENT TO CONNECT THE SPIN-IN, THE SPIN-IN MAY BE CONNECTED TO THE TOP OR BOTTOM OF THE DUCT. IF THE BRANCH DUCT MUST BE CONNECTED TO THE SIDE OF THE MAIN DUCT, USE A RECTANGULAR BRANCH DUCT CONNECTION (SEE DETAIL) OF EQUAL AIR VELOCITY AND TRANSITION TO ROUND DUCT.

CEILING RETURN/EXHAUST BRANCH CONNECTION DETAIL (FOR BRANCH CONNECTIONS 12" & SMALLER)

NO SCALE



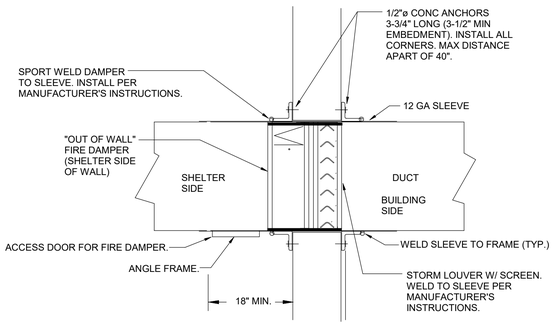
* DUCT SHOULD EXTEND STRAIGHT FOR TWO FEET FROM A CONNECTION BEFORE BENDING.

NOTES:

1. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.
2. DUCTS ARE FLEXIBLE WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.
3. MIN. CENTER LINE BEND LINE RADIUS IS ONE DIA. (OR INSIDE RADIUS OF D/2).
4. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5 LINEAR FEET.

FLEXIBLE DUCT SUPPORT DETAIL

NO SCALE

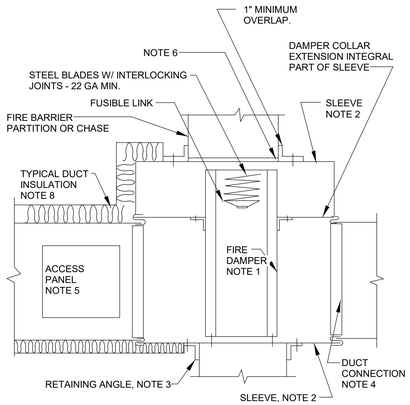


NOTE:

1. COORDINATE ALL PENETRATIONS OF SHELTER WALLS OR ROOF WITH GENERAL CONTRACTOR.
2. SHELTER LOUVERS SHALL BE INSTALLED IN THE SHELTER WALL. SHELTER LOUVERS SHALL BE RUSKIN XP500, GREENHECK MODEL FSG, OR APPROVED EQUAL. HIGH IMPACT LOUVERS SHALL MEET THE IMPACT TESTING CRITERIA FOR TORNADO SHELTERS PER ICC 500 / FEMA 361.
3. INSTALL 1/2" MESH, 18 GA. GALVANIZED SCREEN BETWEEN SHELTER LOUVER AND FIRE DAMPER.
4. INSTALL ACCESS DOOR IN DUCTWORK FOR ACCESS TO FIRE DAMPER. ACCESS DOOR SHALL BE MINIMUM 12" X 12".

SHELTER DUCT PENETRATION DETAIL

NO SCALE

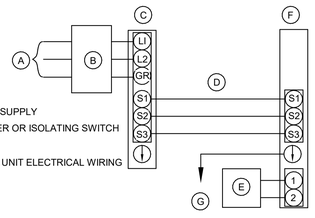


NOTES:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS AND SMACNA FIRE DAMPER INSTALLATION GUIDELINE, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND RETAINING ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION. ALL FIRE DAMPERS SHALL BE UL LISTED.
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. RETAINING ANGLES: GALVANIZED STEEL, NOT LESS THAN 1-1/2" x 1-1/2", 14 GAGE, TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES. RETAINING ANGLES MUST NOT BE ATTACHED TO EACH OTHER AT CORNERS. SECURE RETAINING ANGLES TO FIRE DAMPER SLEEVE ONLY.
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA OR PER MANUFACTURER'S RECOMMENDATIONS.
5. ACCESS DOORS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
6. PROVIDE CLEARANCE TO PERMIT INSTALLATION & EXPANSION. PROVIDE 1/8" PER FOOT LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY. THE MAXIMUM OPENING SIZE SHALL NOT EXCEED 1/8" PER FOOT + 2", NOR SHALL THE OPENING BE LESS THAN 1/4" LARGER THAN THE DAMPER/SLEEVE ASSEMBLY.
7. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 4" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

FIRE DAMPER INSTALLATION DETAIL

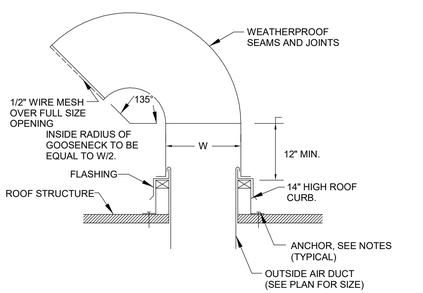
NO SCALE



A OUTDOOR UNIT POWER SUPPLY
B WIRING CIRCUIT BREAKER OR ISOLATING SWITCH
C OUTDOOR UNIT
D INDOOR UNIT/OUTDOOR UNIT ELECTRICAL WIRING
E REMOTE CONTROLLER
F INDOOR UNIT
G INDOOR UNIT GROUND

WIRING DETAIL FOR DUCTLESS MINI-SPLIT

NO SCALE



ANCHOR METHODS:

1. FOR STEEL STRUCTURES: ANCHOR CURB TO ROOF STRUCTURE WITH 1/4"-14 SELF DRILLING SCREWS. MINIMUM OF 1/2" OF THREADS SHALL BE SHOWING ON THE UNDERSIDE OF THE STRUCTURE. PROVIDE MINIMUM (4) FASTENERS PER SIDE, (TOTAL OF 16), EQUALLY SPACED ON EACH SIDE.
2. FOR CONCRETE STRUCTURES: ANCHOR CURB TO ROOF STRUCTURE WITH 3/8" HILTI EXPANSION ANCHORS, MINIMUM 2-1/2" ENGAGEMENT. PROVIDE MINIMUM (2) ANCHORS PER SIDE, (TOTAL OF 8), EQUALLY SPACED ON EACH SIDE.
3. ANCHOR HOOD TO CURB WITH A MINIMUM OF (4) 1/4"-14 SELF DRILLING SCREWS ON EACH SIDE OF THE HOOD (TOTAL OF 16 FASTENERS). ONE FASTENER SHALL BE INSTALLED 3" FROM EACH END ON THE SIDE OF THE HOOD AND THE OTHER TWO SHALL BE EQUALLY SPACED ALONG THE SIDE.

GOOSENECK INSTALLATION DETAIL

NO SCALE

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
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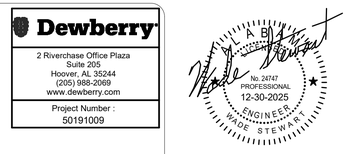

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
RAINBOW DRIVE
for the
City of Gadsden, Alabama

MECHANICAL DETAILS

DRAWN	JWS
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SHEET M0.3 OF SHEETS

AC-2 OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm	Required OSA (IAQP) cfm	Provided OSA (IAQP) cfm
100 - FD LOBBY & RECEPT.	Reception areas	5	3	0.06	92	21	0.80	26	15	35
101 - DAY ROOM/DINING	Lobbies	5	10	0.06	608	86	0.80	108	50	110
108 - KITCHEN	Kitchen (cooking)	7.5	4	0.12	178	51	0.80	64	20	70
					Total Required by AC-2:			198		
					Total Provided by AC-2:				85	215

AC-3 OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm	Required OSA (IAQP) cfm	Provided OSA (IAQP) cfm
201 - BUNK	Dormitory sleeping areas	5	2	0.06	93	16	0.80	19	10	50
202 - BUNK	Dormitory sleeping areas	5	2	0.06	93	16	0.80	19	10	50
203 - BUNK	Dormitory sleeping areas	5	2	0.06	93	16	0.80	19	10	50
206 - CORRIDOR	Corridors	0	0	0.06	133	8	0.80	10	0	0
210 - CORRIDOR	Corridors	0	0	0.06	71	4	0.80	5	0	0
211 - BUNK	Dormitory sleeping areas	5	2	0.06	99	16	0.80	20	10	50
212 - BUNK	Dormitory sleeping areas	5	2	0.06	99	16	0.80	20	10	50
					Total Required by AC-3:			114		
					Total Provided by AC-3:				50	250

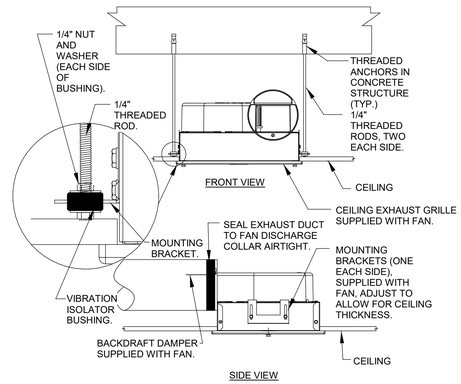
AC-1 OSA CALCULATIONS

Room	Room Type	Rp cfm / P	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Voz cfm	Required OSA (IAQP) cfm	Provided OSA (IAQP) cfm
P100 - PUBLIC AREA	Reception areas	5	14	0.06	459	98	0.80	122	70	70
P101 - G.P.D. STAFF OFFICE	Office spaces	5	2	0.06	203	22	0.80	28	10	10
P102 - TOILET	Toilets-public	0	0	0.00	57	0	0.80	0	0	0
P103 - STORAGE	Storage rooms	0	0	0.12	165	20	0.80	25	0	0
					Total Required by AC-1:			174		
					Total Provided by AC-1:				80	80

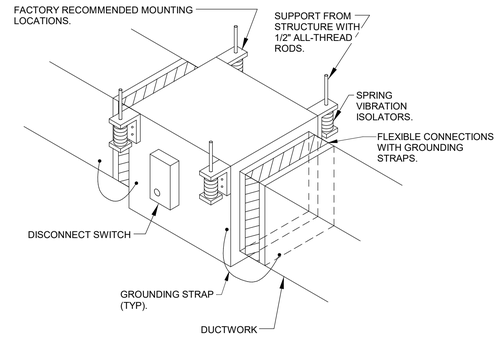
2021 IMC VOLUME PER SPACE CALCULATIONS

ROOM NUMBER	ROOM NAME	AREA (sq. ft.)	VOLUME (cu. ft.)	CONNECTED INDOOR UNIT	CONNECTED OUTDOOR UNIT	TOTAL REFRIGERANT CHARGE (lb)	MIN. REQUIRED ROOM VOLUME (cu.ft.)	NOTES
P100 - P103	POLICE STATION	884	7,956	AC-1	HP-1	10.7	3,344	1
100-103,105-106,108,110	FIRE DEPARTMENT FIRST FLOOR	1,194	10,746	AC-2	HP-2	10.7	3,344	1
201-204,206,208-215	FIRE DEPARTMENT SECOND FLOOR	1,574	14,166	AC-3	HP-3	10.7	3,344	1

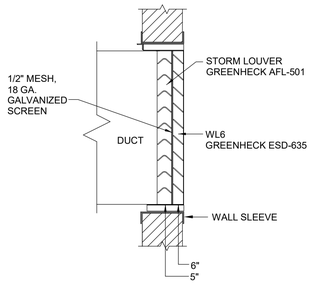
1. COMPLIES WITH ASHRAE 15. NO FURTHER ACTION REQUIRED.
2. MULTIPLE ROOMS DUCTED TOGETHER, SERVED BY ONE COMMON UNIT. COMPLIES WIH ASHRAE 15. NO FURTHER ACTION REQUIRED.
3. SUPPLY DUCT TO CORRIDOR / LARGER ROOM WILL INCREASE THE ROOM VOLUME IN ORDER TO COMLY WITH ASHRAE 15.



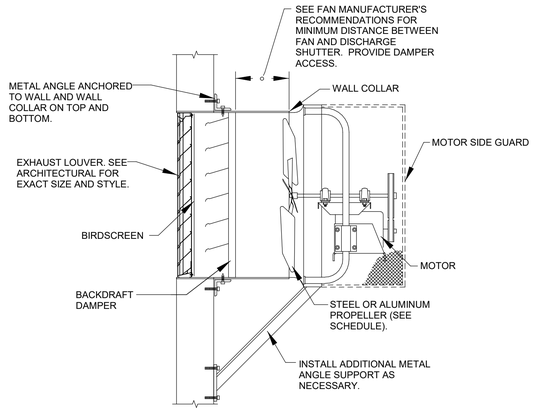
CEILING EXHAUST FAN DETAIL
NO SCALE



IN-LINE FAN INSTALLATION DETAIL
NO SCALE



STORM SHELTER LOUVER DETAIL - OUTSIDE AIR DUCTED OPENINGS
NO SCALE



WALL PROP FAN DETAIL
NO SCALE

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
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WADE STEWART
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PROFESSIONAL
ENGINEER
12-30-2025

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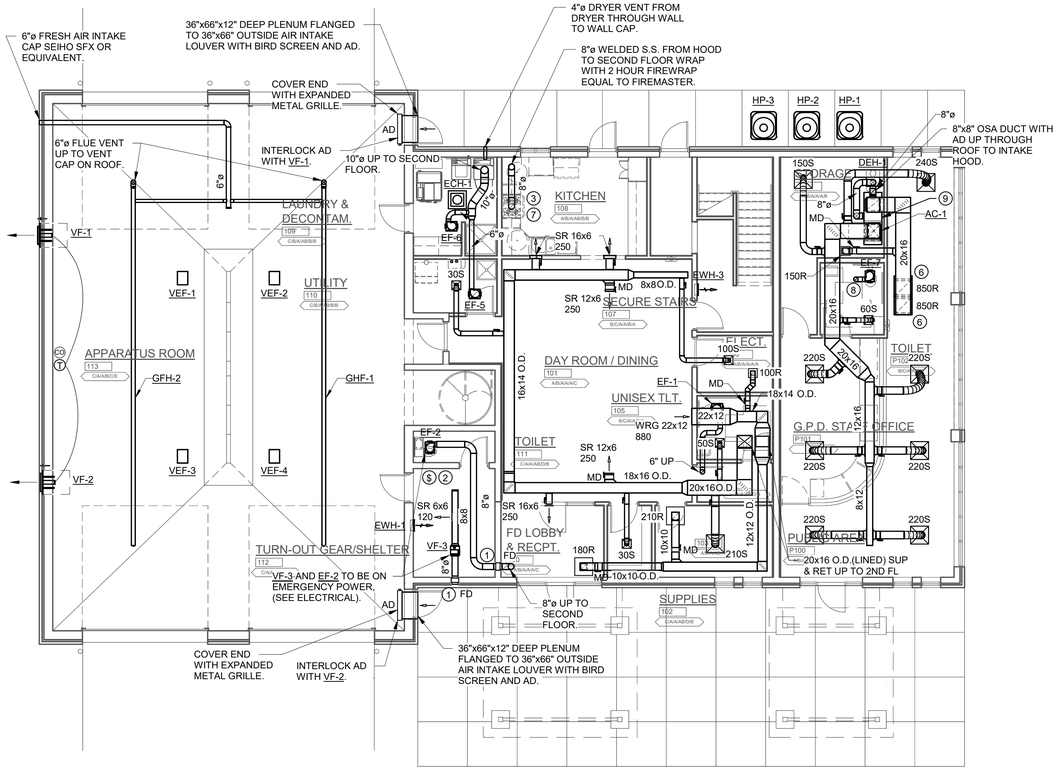
SHEET M0.4 OF SHEETS

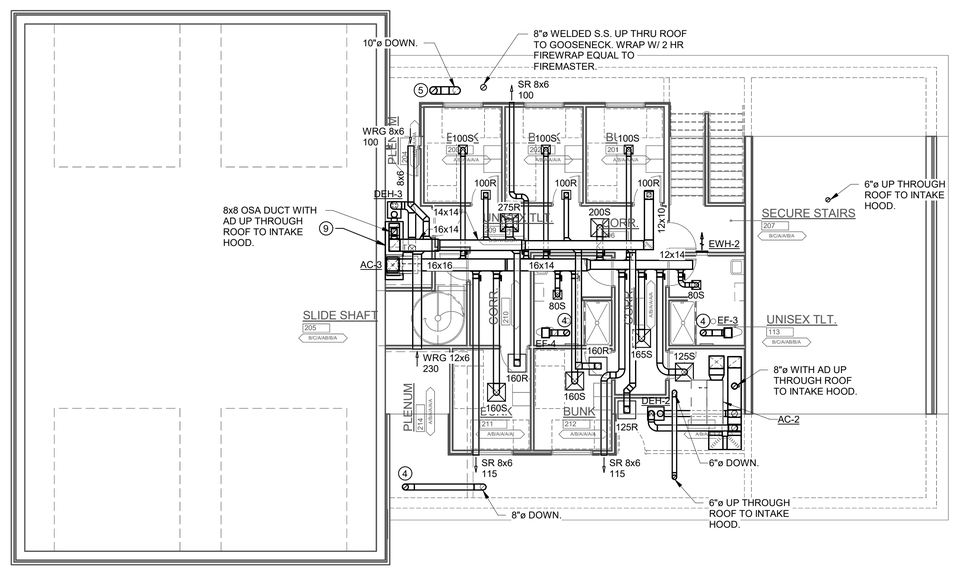


1 MECHANICAL - FIRST FLOOR PLAN

1/8" = 1'-0"

NORTH 0' 4' 8' 16'

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



2 MECHANICAL - SECOND FLOOR PLAN

1/8" = 1'-0"

NORTH 0' 4' 8' 16'

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

KEYED NOTES

1. 12"x12" FEMA STORM LOUVER & FD. LOUVER TO BE 10'-0" A.F.F PROVIDE 18"x18" ACCESS DOOR IN 24" DEEP SHEETMETAL PLENUM. LOUVER TO BE UL CLASSIFIED WINDSTORM RATED ASSEMBLY IN ACCORDANCE WITH FEMA GUIDELINES P-320 AND P-361 AND ICC 500 TO STATIC AND CYCLICAL DESIGN PRESSURES OF POSITIVE/NEGATIVE 250 PSF AND DEBRIS IMPACT OF A 15 LB 2"X4" TRAVELING AT 100MPH.
2. PROVIDE SIGNAGE FOR VENTILATION FAN TO BE TURNED ON DURING STORM EVENT.
3. PROVIDE RESIDENTIAL STYLE CHIMNEY HOOD, 30" WIDE, MULTI-SPEED BUILT IN FAN, 290 CFM EXHAUST, DUAL INCANDESCENT LAMPS, 6" ROUND DUCT CONNECTION, FLUSH MOUNTED CONTROLS, FULLY ENCLOSED FILTERS, DUCTED TELESCOPIC FLUE, UL LISTED, BROAN RM5000 OR APPROVED EQUAL . COLOR TO BE SELECTED BY ARCHITECT.
4. 8"ø DUCT UP TO INTAKE HOOD ON ROOF (COOK PR-8 OR EQUAL).
5. 10"ø DUCT UP TO EXHAUST HOOD ON ROOF (COOK PR-10 OR EQUAL).
6. PROVIDE MD IN VERTICAL DUCT.
7. PROVIDE GUARDIAN G300B FIRE SUPPRESSION SYSTEM MOUNTED IN CABINET ABOVE HOOD. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
8. 6" UP THROUGH ROOF TO RELIEF HOOD.
9. INSTALL UNIT ON FULL SIZE LINED RETURN PLENUM.

GENERAL NOTES

1. ALL DUCT WORK FOR AC-3 SHALL BE RUN IN THE ATTIC. THE SUPPLY AND RETURN MAINS SHALL BE ROUTED IN THE TRUSS WEBBING.

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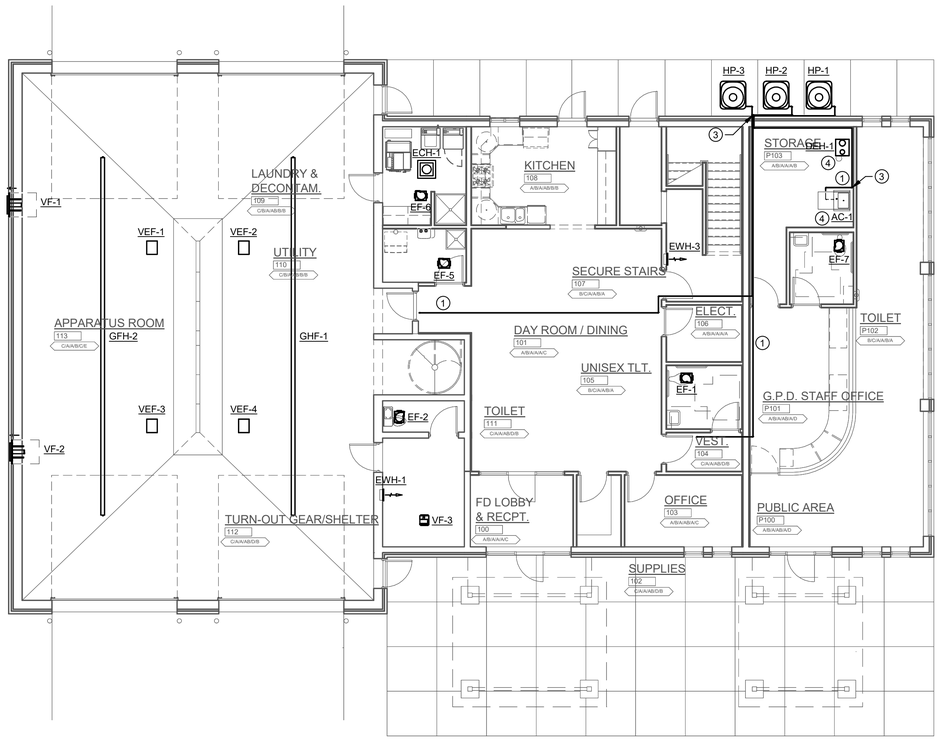


1 MECHANICAL PIPING - FIRST FLOOR PLAN

1/8" = 1'-0"

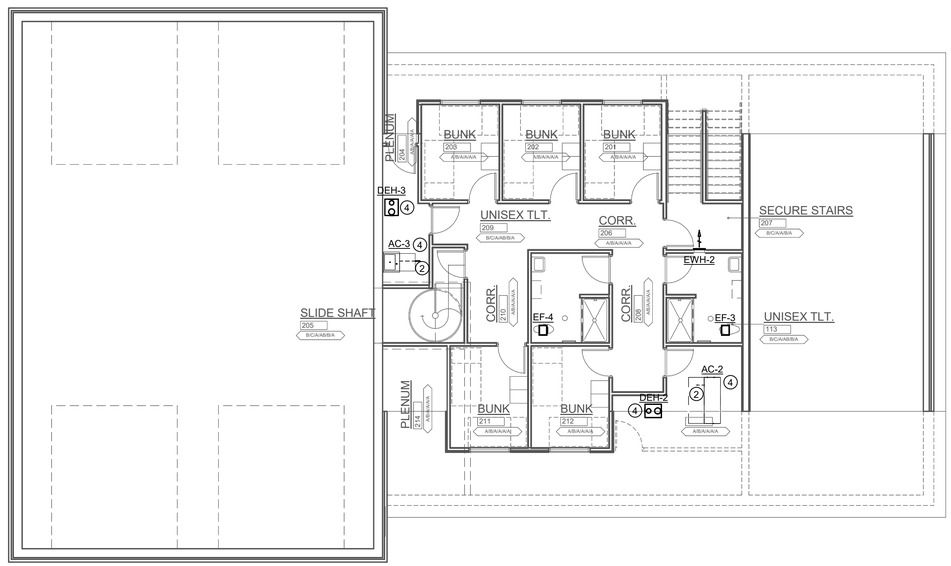
NORTH

0' 4' 8' 16'

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

KEYED NOTES

1. REFRIGERANT LINE SETS SHOWN AS SINGLE LINE FOR CLARITY. SIZE AND ROUTE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
2. ROUTE REFRIGERANT PIPING DOWN THRU FLOOR TO FIRST FLOOR CEILING.
3. ROUTE REFRIGERANT LINES UP IN WALL TO FIRST FLOOR CEILING.
4. ROUTE 3/4"ø CONDENSATE LINE TO NEAREST FLOOR DRAIN. (SEE PLBG).



2 MECHANICAL PIPING - SECOND FLOOR PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16'

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

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MECHANICAL PIPING FLOOR PLANS

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SHEET M1.1 OF SHEETS

ELECTRICAL LEGEND

LIGHTING

(#) SURFACE OR RECESSED CEILING OUTLET – FIXTURE TYPE '#'

CEILING OUTLET – FIXTURE SINGLE OR CONTINUOUS LENGTHS

CEILING OUTLET – FIXTURE SINGLE OR CONTINUOUS LENGTHS CONNECTED TO EMERGENCY INVERTER OR INTEGRAL BATTERY.

CEILING OUTLET – FIXTURE SINGLE OR CONTINUOUS LENGTHS

CEILING OUTLET – FIXTURE SINGLE OR CONTINUOUS LENGTHS CONNECTED TO EMERGENCY INVERTER OR INTEGRAL BATTERY.

SINGLE SIDE EXIT SIGN – WITH DIRECTIONAL CHEVRONS AS SHOWN. BATTERY BACK UP

LIGHTING CONTROL SYSTEM

OSS WALL MOUNTED VACANCY SINGLE POLE SWITCH, ON/OFF, RAISE LOWER, 0–10V DIMMING, 8A MAX INPUT LED, 120/277V; LUTRON MODEL NO. MS–2101–V–XX OR APPROVED EQUAL

$ 1–POLE, 20A, 125/277V, SEE SPECIFICATIONS.

3$ 3–WAY, 20A, 125/277V, SEE SPECIFICATIONS

POWER

POWER PANEL – SEE SCHEDULE AND SPECIFICATIONS

HP MOTOR–HORSEPOWER AS SHOWN (HP) HORSEPOWER (TYPICAL)

F FAN – CEILING/ROOF MOUNTED EXHAUST FAN

FUSED DISCONNECT SWITCH – 600V – HEAVY DUTY TYPE, RATING AND ENCLOSURE AS SHOWN. SEE SPECIFICATIONS FOR IDENTIFICATION. FURNISH AND INSTALL NAME PLATES PER DETAIL. FUSE PER EQUIPMENT MANUFACTURER.

$M MANUAL MOTOR STARTER – HORSEPOWER RATED, WITH THERMAL OVERLOAD UNITS AND ENCLOSURE CONSISTENT WITH ENVIRONMENT.

BRANCH CIRCUITS

BRANCH CIRCUIT – ROUTED ABOVE CEILING OR IN WALL (SEE SPECIFICATIONS)

BRANCH CIRCUIT – ROUTED IN FLOOR (SEE SPECIFICATIONS)

HOMERUN TO PANELBOARD – NUMBER OF CIRCUITS CONDUCTORS AS REQUIRED, CONDUIT SIZE AS REQUIRED (3/4"C MINIMUM). INDIVIDUAL NEUTRAL CONDUCTOR REQUIRED PER CIRCUIT. FURNISH AND INSTALL PER NEC REQUIREMENTS.

BRANCH CIRCUIT – EXPOSED (SEE SPECIFICATIONS).

EQUIPMENT HOMERUN – NUMBER OF CIRCUITS/ CONDUCTORS AS REQUIRED, CONDUIT SIZE AS REQUIRED (3/4"C MINIMUM. FURNISH AND INSTALL PER NEC REQUIREMENTS.

FEEDER – OVERHEAD

FEEDER – UNDERGROUND

RECEPTACLES

ABOVE COUNTER WALL OUTLET – DUPLEX OUTLET, 20A, 125V, 3 WIRE ONE POLE GROUND, SEE SPECIFICATIONS.

WALL OUTLET – DUPLEX OUTLET, 20A, 125V, 3 WIRE ONE POLE GROUND, SEE SPECIFICATIONS.

GFI WALL OUTLET – DUPLEX OUTLET WITH GROUND FAULT INTERRUPTER, 20A, 125V, 3 WIRE ONE POLE GROUND, SEE SPECIFICATIONS.

WP GFI WALL OUTLET – WEATHERPROOF DUPLEX OUTLET WITH GROUND FAULT INTERRUPTER, 20A, 125V, 3 WIRE ONE POLE GROUND

USB ABOVE COUNTER USB WALL OUTLET – DUPLEX OUTLET, 20A, 125V, 3 WIRE ONE POLE GROUND, WITH ONE EACH USB 'A' AND ONE EACHE USB 'C'. SEE SPECIFICATIONS.

USB USB WALL OUTLET – DUPLEX OUTLET, 20A, 125V, 3 WIRE ONE POLE GROUND, WITH ONE EACH USB 'A' AND ONE EACHE USB 'C'. SEE SPECIFICATIONS.

WALL OUTLET – DOUBLE DUPLEX OUTLET, 20A, 125V, 3 WIRE ONE POLE GROUND

WALL OUTLET – SINGLE OUTLET, 20A, 125V, 3 WIRE POLARIZED

J WALL OUTLET – JUNCTION BOX

CEILING OUTLET – JUNCTION BOX

RISER – UP

RISER – DOWN

TS POP UP, COUNTER RECEPTACLE WITH 2 SIMPLEX RECEPTACLES AND 2 DATA PORTS FOR RJ45 JACKS.

FIRE ALARM

FACP FIRE ALARM CONTROL PANEL – FCI MODEL S3 SERIES INTELLIGENT ADDRESSABLE ANALOG FIRE DETECTION CONTROL PANEL WITH STAND–BY BATTERY SURFACE MOUNTED AT 5'–0" TO CENTERLINE

* FURNISH AND INSTALL POINT ID CELLULAR DIALER FOR PRIMARY AND BACK–UP AT FACP.

** PROVIDE FACTORY INSTALLED BATTERY BACKUP AND FACTORY INSTALLED SURGE SUPPRESSION DEVICE IN FACP.

*** CONTRACTOR SHALL PROVIDE COMPLETE, INDEPENDENT 2EA. CAT5E TELEPHONE LINE FROM AUXILIARY BACKBOARD (MDF) TO FIRE ALARM CONTROL PANEL. CAT5E SHALL BE ROUTED IN 3/4" EMT CONDUIT FROM POINT "A" TO POINT "B" AND TERMINATED AS REQUIRED BY FIRE ALARM TECHNICIAN.

**** FURNISH AND INSTALL INTEGRAL WEB SERVER ACCESS CARD.

FA REMOTE FIRE ALARM ANNUNCIATOR PANEL – FCI MODEL NGA IN FLUSH MOUNTED SERIES BOX. PROVIDE REMOTE MICROPHONE ADJACENT TO ANNUNCIATOR IN SAME FLUSH MOUNTED BOX.

F MANUAL PULL STATION – FCI MODEL# MS–7ASF W/ FLUSH MOUNTED BACKBOX (4" SQUARE BOX WITH SINGLE GANG RAISED COVER) MOUNTED @ + 44" A.F.F. TO BOTTOM.

F FIRE ALARM STROBE – FCI MODEL# SCWL – CEILING MOUNTED ON 2 EACH FLUSH 4" SQUARE BOX WITH EXTENSION RING

F FIRE ALARM SPEAKER STROBE – FCI MODEL# SPSCWL – CEILING MOUNTED ON FLUSH 4" SQUARE BOX WITH EXTENSION RING

SMOKE DETECTOR – FCI MODEL# ASD–PL3–IV – WITH BASE/CEILING MOUNTED ON FLUSH 4" SQUARE BOX

DD–S DD–R DUCT DETECTOR (S=SUPPLY AIR – R= RETURN AIR) – FCI MODEL# ASD–PL3–IV WITH DNR HOUSING, SAMPLING TUBE & RELAY FCI MODEL R–10E FURNISHED BY ELECTRICAL, INSTALLED IN DUCT BY MECHANICAL, FINAL CONNECTIONS BY FIRE ALARM CONTRACTOR.

W F FIRE ALARM STROBE – FCI MODEL# SRL – W/ FLUSH MOUNTED BACKBOX (4" SQUARE BOX WITH SINGLE GANG RAISED COVER) MOUNTED @ + 76" A.F.F. TO BOTTOM.

W F FIRE ALARM SPEAKER STROBE – FCI MODEL# SPSRL – W/ FLUSH MOUNTED BACKBOX (4" SQUARE BOX WITH SINGLE GANG RAISED COVER) MOUNTED @ + 76" A.F.F. TO BOTTOM.

WP F WEATHER–PROOF FIRE ALARM SPEAKER STROBE – FCI MODEL# SPSRL – W/ FLUSH MOUNTED BACKBOX (4" SQUARE BOX WITH SINGLE GANG RAISED COVER) MOUNTED @ + 76" A.F.F. TO BOTTOM.

H HEAT DETECTOR – FCI MODEL# ATD–L3 – WITH BASE/CEILING MOUNTED ON FLUSH 4" SQUARE BOX

SB SMOKE DETECTOR WITH 24V LOW FREQUENCY SOUNDER BASE – FCI MODEL# ASD–PL3–IV WITH FCI MODEL# B200S–LF SOUNDER BASE MOUNTED ON FLUSH 4" SQUARE BOX

HR RATE OF RISE HEAT DETECTOR – FCI MODEL# ATD–RL3 – WITH BASE/CEILING MOUNTED ON FLUSH 4" SQUARE BOX

FS FLOW SWITCH MONITOR MODULE – FCI MODEL AMM–2F. FLOW SWITCH FURNISHED AND INSTALLED BY OTHERS, MODULE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR. CONNECT TO FACP AS A SEPARATE ZONE.

TS TAMPER SWITCH MONITOR MODULE – FCI MODEL AMM–2F TAMPER SWITCH FURNISHED AND INSTALLED BY OTHERS, MODULE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR. CONNECT TO FACP AS REQUIRED.

RT REMOTE TEST STATION (KEY OPERATED) – FCI MODEL RTS451KEY BOX TYPE, FLUSH MOUNTED, HEIGHT CONDUIT AND WIRE TO DUCT DETECTOR AS REQUIRED. PROVIDE FINAL CONNECTIONS AS REQUIRED

WG WIRE GUARD W/ TAMPER PROOF SCREWS – REQUIRED IN GYM, AUXILIARY GYM, AND WHERE SHOWN

F FIRE ALARM CONDUIT & WIRE – SEE FIRE SYSTEM NOTES.

FIRE ALARM SYSTEM NOTES

1. FIRE ALARM CONTRACTOR TO INCLUDE IN BID PRICE REQUIRED PROGRAMMING SERVICES SUCH THAT THE FINAL ROOM NUMBERS (PER THE APPROVED OWNERS SIGNAGE SCHEME) FOR EACH F.A. SYSTEM DEVICE SUCH THAT ALARMS AND DEVICE LOCATIONS MATCH BUILDING SIGNAGE.
2. FIRE ALARM SUB–CONTRACTOR TO FURNISH POINT TO POINT WIRING DIAGRAM BY THE FIRE ALARM MANUFACTURER WITH FIRE ALARM SYSTEM SUBMITTALS. POINT TO POINT WIRING DIAGRAMS SHALL INCLUDE ALL WIRING INFORMATION AND CONDUIT SIZES. REQUIRED WIRING DIAGRAMS SHALL BE FURNISHED WITH THE ELECTRICAL SUBMITTAL PACKAGE, SUBMITTAL PACKAGES WITHOUT THESE DRAWINGS AND THE REQUIRED MAINTENANCE AND EXPANSION INFORMATION (SEE SPECIFICATIONS) WILL NOT BE ACCEPTED.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WIRING REQUIREMENTS WITH THE FIRE ALARM SYSTEM SUBCONTRACTOR PRIOR TO BIDDING AND/OR ROUGHING. FURNISH AND INSTALL ALL REQUIRED 120V. CIRCUITS FOR AMPLIFIERS, FIELD CHARGING PANELS, RELAY PANELS, ETC..
4. ALL FIRE ALARM CABLING SHALL BE INSTALLED CONCEALED IN CONDUIT, 3/4" MINIMUM (NO EXCEPTIONS). ALL FIRE ALARM CONDUITS SHALL BE RED TRUE COLOR EMT AS MANUFACTURED BY ALLIED TUBE AND CONDUIT.
5. FIRE ALARM SYSTEM CONTRACTOR SHALL FURNISH AND INSTALL REMOTE TEST STATION(S) FOR ALL DUCT MOUNTED SMOKE DETECTORS. THESE STATIONS SHALL BE LABELED WITH THE DEVICE NUMBER AND THE UNIT NUMBER. THE REMOTE TEST STATION(S) SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS FOR ALL FIRE PROTECTION SYSTEM VALVES WITH THE FINAL FIRE PROTECTION SYSTEM PLANS PRIOR TO BIDDING AND/OR ROUGHING. AT EACH CONTROL VALVE, THE CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM CONNECTIONS TO THE FLOW AND TAMPER SWITCHES (FURNISHED AND INSTALLED BY OTHERS).
7. DUCT MOUNTED SMOKE DETECTORS FURNISHED BY THE ELECTRICAL CONTRACTOR. AND INSTALLED BY THE MECHANICAL CONTRACTOR LOCATIONS SHOWN ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATION WITH THE MECHANICAL PLANS AND FINAL CONNECTIONS BY FIRE ALARM CONTRACTOR. PROVIDE ALL EQUIPMENT REQUIRED FOR SHUTDOWN OF THE UNITS BY THE FIRE ALARM CONTROL PANEL AS REQUIRED.
8. CONTRACTOR SHALL PROVIDE WITH THE FIRE ALARM SUBMITTAL PACKAGE THE FOLLOWING INFORMATION PER IBC 2015:
   - COPY OF STATE OF ALABAMA FIRE ALARM CONTRACTOR LICENSE/PERMIT
   - LOCATION OF ALARM INITIATING DEVICES
   - CONDUCTOR TYPES AND SIZES AND TERMINATING EQUIPMENT
   - MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT DEVICES AND MATERIALS
9. THE NEW FIRE ALARM SYSTEMS WILL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:
   - INTERNATIONAL BUILDING CODE 2015
   - INTERNATIONAL FIRE CODE 2015
   - ALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
10. THE CERTIFIED FIRE ALARM ACT REQUIRES THAT EVERY BUSINESS WHO INSTALLS FIRE ALARM SYSTEMS IN COMMERCIAL OCCUPANCIES MUST BE LICENSED AS A CERTIFIED FIRE ALARM CONTRACTOR. THE CONTRACTOR MUST HAVE A NICET LEVEL III TECHNICIAN IN A POSITION OF RESPONSIBILITY, AND THE LICENSE WILL BE ISSUED IN THE NAME OF THE CERTIFICATE HOLDER AND THE CONTRACTOR. THE CERTIFIED FIRE ALARM ACT ALSO REQUIRES THAT TECHNICIANS WORKING FOR THE CERTIFIED CONTRACTOR MUST HOLD A CURRENT NICET LEVEL II, OR EQUIVALENT, CERTIFICATION. CONTRACTORS TO SHOW EVIDENCE WITH SUBMITTAL PACKAGE THAT HE/SHE MEETS THE CERTIFICATION REQUIREMENTS OF THE ACT AND HOLDS A PERMIT ISSUED BY THE STATE FIRE MARSHALL.
11. THE FIRE DETECTION AND ALARM SYSTEM CONTROLS CONTRACTOR SHALL HOLD A PERMIT FROM THE ALABAMA STATE FIRE MARSHAL. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A COPY OF THE STATE FIRE MARSHAL'S PERMIT TO THE GENERAL CONTRACTOR SO THAT THE ENGINEER MAY REVIEW THE CONTRACTOR'S QUALIFICATIONS PRIOR TO ANY WORK TAKING PLACE. SEE SPECIFICATIONS SECTION 266520A, APPENDIX FOR COPY OF STATE REQUIREMENTS FOR FIRE ALARM CONTRACTORS DESIRING TO BID THIS PROJECT.

AUXILIARY

DATA OUTLET (NUMBER OF DATA AS INDICATED) – WALL MOUNTED – SEE DETAIL

SYMBOLS BELOW FOR AUXILIARY OUTLETS, SEE AUXILIARY OUTLET DETAIL FOR DESCRIPTIONS

TV WAP CR S

TS POP UP, COUNTER RECEPTACLE WITH 2 RJ45 DATA OUTLETS JACKS. SEE DETAIL: AUXILIARY OUTLET FOR CABLING

ELECTRICAL NOTES

1. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL PLANS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC.
2. ALL CIRCUIT BREAKERS AND SWITCHES ARE 3–POLE UNLESS OTHERWISE NOTED.
3. ALL BRANCH CIRCUIT CONDUIT SHALL BE GALVANIZED EMT, JOINED AND TERMINATED WITH SET SCREW STEEL FITTINGS, 3/4" CONDUIT MINIMUM. ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.
4. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS. ALL OUTLET BOXES MOUNTED BACK–TO–BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO THE OTHER.
5. ALL FLUSH MOUNTED PANELS SHALL HAVE 5–1" EMPTY CONDUITS STUBBED OUT TO ABOVE CEILING FOR FUTURE CIRCUITS.
6. VERIFY LOCATION OF ALL FLOOR OUTLETS BEFORE INSTALLATION.
7. ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES.
8. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE. SEE TYPICAL DETAILS FOR MOUNTING HEIGHTS OF ALL OUTLETS.
9. ALL CONDUIT TO BE CONCEALED UNLESS OTHERWISE NOTED (U.O.N.).
10. WHERE FIXTURES/DEVICES SHOWN ON COLUMNS, PILASTERS, ABOVE DOORS, ETC. IT IS INTENDED TO BE CENTERED U.O.N. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
11. ALL RACEWAYS AND CABLING SHALL BE CONCEALED IN WALLS OR ABOVE CEILING WHERE POSSIBLE. WHERE COMPLETED FINISHES ARE DISTURBED, CONTRACTOR SHALL REPAIR/ REPLACE SURFACES TO MATCH ORIGINAL AT NO ADDITIONAL EXPENSE TO OWNER. ANY/ ALL EXPOSED RACEWAY/ CONDUIT (WHERE ALLOWED IN CEILING AREAS WITH EXPOSED STRUCTURE) SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
12. ALL ROOF PENETRATIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ROOFING MANUFACTURER CONTRACTOR FOR ALL ROOF PENETRATIONS. NO ROOF PENETRATIONS SHALL BE PERMITTED THAT WOULD VOID THE ROOF WARRANTY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ ALL CHARGES RELATED TO COORDINATION FOR PENETRATIONS.
13. CONTRACTOR SHALL FURNISH AND INSTALL ALL BRACKETS, HARDWARE AND ENVIRONMENTALLY APPROPRIATE ENCLOSURES AS REQUIRED FOR ALL EQUIPMENT.
14. CONTRACTOR SHALL REVIEW AND MAINTAIN ALL FIRE RATINGS.

EE Group Inc.
gadsden alabama
TEL: (256)413-7717
FAX: (256)413-7789
WEB: WWW.EEGRPINC.COM
Job No. 5071

ALABAMA REGISTERED
No. 21242
PROFESSIONAL ENGINEER
JOHN R. MORGAN JR.
2026

THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
Rainbow Drive
for the
City of Gadsden, Alabama

ELECTRICAL LEGEND

DRAWN	JRM
CHECKED	JRM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23–01
REVISIONS	

SHEET E0.1 OF SHEETS

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ALABAMA REGISTERED No. 21242 PROFESSIONAL ENGINEER JOHN R. MORGAN JR.

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AT LEAST 4" X 6", COMPLY WITH NEC 110.16

⚠ WARNING

Electric Arc Flash Hazard

Will cause severe injury or death.

Wear protective equipment before opening or performing diagnostic measurements while energized. (see NFPA 70E)

ROUNDED CORNERS TO RESIST PEELING

COMPLY WITH ANSI Z535.4–1998
HIGH–TACK ADHESIVE LABELS
UV/CHEMICAL RESISTANT 3.2 MIL LAMINATED VINYL

ARC FLASH HAZARD LABEL

ALL ELECTRICAL EQUIPMENT PER SPECIFICATIONS
NOT TO SCALE

APPROX. 10"

CITY OF GADSDEN FIRE STATION 8

ARCHITECT: TOM MCELRATH, AIA
GADSDEN, ALABAMA
ENGINEER: EE GROUP INC.
GADSDEN, ALABAMA
CONTRACTOR:

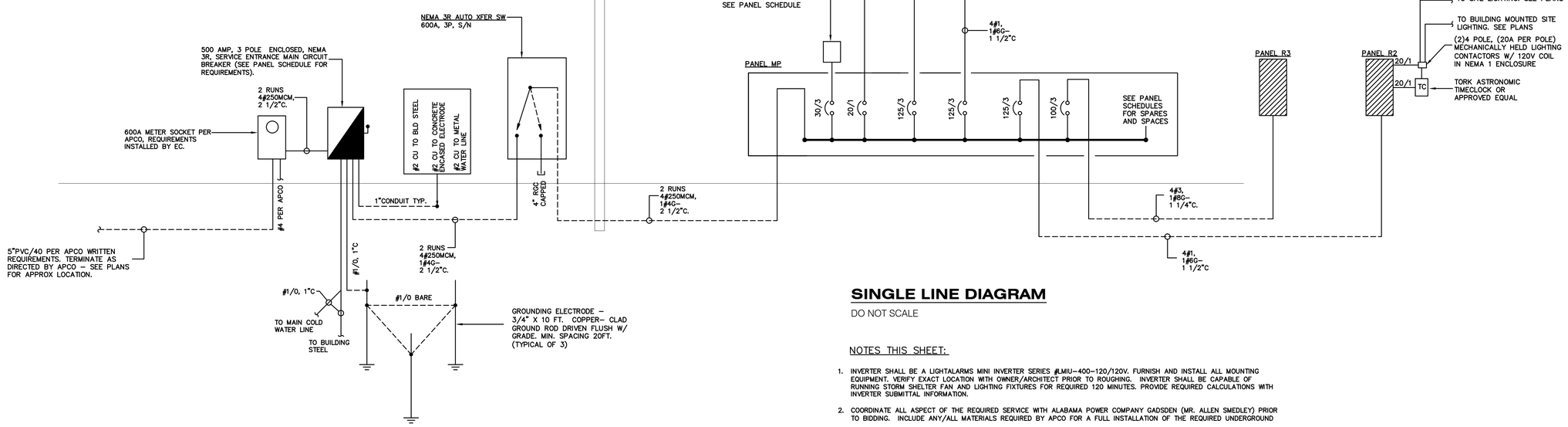
APPROX. 6"

SCREW FASTENED TYPICAL ALL 4 CORNERS (TYPICAL).

WHITE MICARTA W/ BLACK LETTERS SCREW FASTENED

JOB NAMEPLATE

NOT TO SCALE



SINGLE LINE DIAGRAM

DO NOT SCALE

NOTES THIS SHEET:

1. INVERTER SHALL BE A LIGHTALARMS MINI INVERTER SERIES #LMIU–400–120/120V. FURNISH AND INSTALL ALL MOUNTING EQUIPMENT. VERIFY EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGHING. INVERTER SHALL BE CAPABLE OF RUNNING STORM SHELTER FAN AND LIGHTING FIXTURES FOR REQUIRED 120 MINUTES. PROVIDE REQUIRED CALCULATIONS WITH INVERTER SUBMITTAL INFORMATION.
2. COORDINATE ALL ASPECT OF THE REQUIRED SERVICE WITH ALABAMA POWER COMPANY GADSDEN (MR. ALLEN SMEDLEY) PRIOR TO BIDDING. INCLUDE ANY/ALL MATERIALS REQUIRED BY APCO FOR A FULL INSTALLATION OF THE REQUIRED UNDERGROUND

APPROX. 5"

EQUIPMENT NAME
VOLTAGE/PHASE
FEEDER EQUIPMENT

APPROX. 3"

SCREW FASTENED

120/208 VOLT EQUIPMENT
WHITE MICARTA
W/ BLACK LETTERS

TYPICAL NAMEPLATES

ALL ELECTRICAL EQUIPMENT PER SPECIFICATIONS
NOT TO SCALE

ATTACH NAMEPLATE WITH SCREWS

SERVICE DISCONNECT
400A, 208/120/3P–4W

LETTERING SHALL BE 3/4" HIGH

FED FROM UTILITY
SC CURRENT: 23,000 KAIC @ 208/3

LETTERING SHALL BE 3/8" HIGH

NAMEPLATE COLOR: WHITE
LETTER (FILL) COLOR: BLACK

S.E. BREAKER NAMEPLATE

NOT TO SCALE (PANEL MP)

PANELBOARD SCHEDULE

NAME PLATE INFORMATION	MARK	TYPE	MAINS			BRANCHES					MTD.	APPROVED EQUALS	AVAILABLE FAULT CURRENT	SURGE PROTECTION DEVICE
			TYPE	AMPS	SERVICE	1-POLE	2-POLE	3-POLE	SPARES	SPACES				
MB 120/208V 3P,4W FED FROM UTILITY	MB	SQUARE "D" BREAKER	ENCLOSED	500	120/208V 3P,4W	-----	-----	-----	-----	-----	SURFACE	G.E. , SIEMENS, CUTLER HAMMER	25,564	NONE
MP 120/208V 3P,4W FED FROM MB	MP	SQUARE "D" I-LINE HCM	MLO	500	120/208V 3P,4W	-----	2-20 A, 1-30 A,	3-30 A, 1-50 A, 1-60 A, 1-100 A, 3-125 A,	1-15/3, 1-60/3, 1-125/3	1-3P	SURFACE	G.E. , SIEMENS, CUTLER HAMMER	18,947	SURGE SUPPRESSION INC. SDLA3Y1-21
R1 120/208V 3P,4W FED FROM MP	R1	SQUARE "D" NQOD	MLO	125	120/208V 3P,4W	16-20 A, 8-30 A,	-----	-----	8-20/1	10-1P	SURFACE	G.E. , SIEMENS, CUTLER HAMMER	15,669	NONE
R2 120/208V 3P,4W FED FROM MP	R2	SQUARE "D" NQOD	MLO	125	120/208V 3P,4W	28-20 A, 5-20 A AFCI,	1-30 A,	-----	3-20/1	4-1P	SURFACE	G.E. , SIEMENS, CUTLER HAMMER	14,367	NONE
R3 120/208V 3P,4W FED FROM MP	R3	SQUARE 'D' NQOD 225AMP	MLO	100	120/208V 3P,4W	12-20 A,	-----	-----	15-20/1	15-1P	SURFACE	G.E. , SIEMENS, CUTLER HAMMER	5,610	SURGE SUPPRESSION INC. CKLA3Y1-21
R4 120/208V 3P,4W FED FROM MP	R4	SQUARE 'D' NQOD 225AMP	MLO	125	120/208V 3P,4W	13-20 A AFCI,	1-20 A,	2-50 A,	4-20/1	5-1P	SURFACE	G.E. , SIEMENS, CUTLER HAMMER	10,095	NONE

A NEW FIRE STATION NO. 8
located at
Rainbow Drive
for the
City of Gadsden, Alabama

ELECTRICAL SINGLE LINE DIAGRAM

DRAWN	JRM
CHECKED	JRM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23–01
REVISIONS	

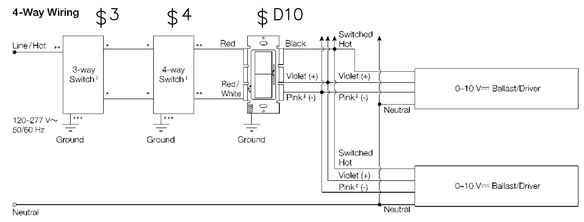
SHEET E0.2 OF SHEETS

FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS			MOUNTING		REMARKS	EQUALS
			# LAMPS	LUMENS/WATTS	TYPE	TYPE	RECESS DEPTH		
A	METALUX	24FP6435C	1	6000L/59W (NOMINAL)	LED	RECESSED	1-3/4"		OR APPROVED EQUAL
AE	METALUX	24FP6435C-EL14W	1	6000L/59W (NOMINAL)	LED	RECESSED	1-3/4"	FIXTURE FURNISHED WITH INTEGRAL BATTERY.	OR APPROVED EQUAL
B	METALUX	22FP4235C	1	4300L/39W (NOMINAL)	LED	RECESSED	1-3/4"		OR APPROVED EQUAL
BE	METALUX	22FP4235C-EL7W	1	4300L/39W (NOMINAL)	LED	RECESSED	1-3/4"	FIXTURE FURNISHED WITH INTEGRAL BATTERY.	OR APPROVED EQUAL
BL	METALUX	SQW-F-0U-050D-835-1-D-UNV-STD-**-WM-2FT	1	1000L/9W (NOMINAL)	LED	WALL	-----	WALL MOUNTED LED BED LIGHT WITH DIMMING. VERIFY MOUNTING HEIGHT AND COLOR/FINISH WITH ARCHITECT PRIOR TO ANY/ALL WORK/ORDERING.	OR APPROVED EQUAL
C	METALUX	4SNLED-LD5-50SL-LW-UNV-L835	1	5200L/46W (NOMINAL)	LED	SURFACE CEILING	-----		OR APPROVED EQUAL
CE	METALUX	4SNLED-LD5-50SL-LW-UNV-L835-EL14W	1	5200L/46W (NOMINAL)	LED	SURFACE CEILING	-----	FIXTURE FURNISHED WITH INTEGRAL BATTERY.	OR APPROVED EQUAL
D	LITHONIA LIGHTING	IBHSB-9000LM-SD080-MD-120-35K-80CRI-WGX	1	9000L/79W (NOMINAL)	LED	SURFACE	-----	LED HIGHBAY WITH FACTORY WIREGUARD. COORDINATE WITH ARCHITECT MOUNTING/CEILING TYPE PRIOR TO ANY/ALL ORDERING. FINISH/COLOR TO BE SPECIFIED BY OWNER/ARCHITECT.	OR APPROVED EQUAL
DE	LITHONIA LIGHTING	IBHSB-9000LM-SD080-MD-120-35K-80CRI-BSL20HV-WGX	1	9000L/79W (NOMINAL)	LED	SURFACE	-----	LED HIGHBAY WITH FACTORY WIREGUARD. COORDINATE WITH ARCHITECT MOUNTING/CEILING TYPE PRIOR TO ANY/ALL ORDERING. FINISH/COLOR TO BE SPECIFIED BY OWNER/ARCHITECT. FIXTURE FURNISHED WITH INTEGRAL BATTERY.	OR APPROVED EQUAL
RHE	SPECTRUM LIGHTING	RDF06XT-40L-MD-E-1-EM-RD6FXT-**-PGW-	1	4000L/40W (NOMINAL)	LED	RECESSED	6"	LED 6" RECESSED DOWNLIGHT WITH LENSING. COORDINATE WITH ARCHITECT MOUNTING/CEILING TYPE PRIOR TO ANY/ALL ORDERING. FINISH/COLOR TO BE SPECIFIED BY OWNER/ARCHITECT. FIXTURE FURNISHED WITH INTEGRAL BATTERY.	OR APPROVED EQUAL
F1	ACUITY	PINE-P1-80-40K-MVOLT-55-FLC-KM-C3-**	1	3200L/33W (NOMINAL)	LED	TENON	-----	FLOOD MOUNTED LED WITH 55 DEGREE DISTRIBUTION. GROUND MOUNTED LIGHT SUPPLIED WITH ADJUSTABLE SLIP FITTER. COLOR/FINISH TO BE SPECIFIED BY OWNER/ARCHITECT.	OR APPROVED EQUAL
J	BOCK LIGHTING	SN520-LVEV-3000-X9K-EM-41SF-643HD-20FT-640-75-ST2**-RO70	1	2700L/28W (NOMINAL)	LED	SURFACE CEILING	-----	COORDINATE SUSPENSION LENGTH AND TYPE WITH ARCHITECT PRIOR TO ANY/ALL ORDERING. COLOR/FINISH TO BE SPECIFIED BY OWNER/ARCHITECT. VERIFY LOCATION OF REMOTE BALLEST PRIOR TO ORDERING.	OR APPROVED EQUAL
SL	HALO	SLD612-35-**-UNV-JB	1	1,200L/15W (NOMINAL)	LED	RECESSED	2"	SHOWER LIGHT. UL LISTED WET LOCATION. COLOR/FINISH TO BE SELECTED BY OWNER/ARCHITECT. COORDINATE CEILING TYPE WITH ARCHITECT PRIOR TO ANY/ALL ORDERING.	OR APPROVED EQUAL
SC	METALUX	SQW-F-025U-1250D-835-1-UNV-STD-**-WM-2FT (500L UP/2,500L DOWN) FIXTURE PROTRUDES 3.6" FROM WALL ADA COMPLIANT	1	3000L/27W (NOMINAL)	LED	WALL	-----	WALL MOUNTED 2FT LED LINEAR DIRECT/ INDIRECT VERIFY MOUNTING HEIGHT AND COLOR/FINISH WITH ARCHITECT PRIOR TO ANY/ALL WORK/ORDERING.	OR APPROVED EQUAL
SCE	METALUX	SQW-F-025U-1250D-835-1-UNV-STD-BSL6-**-WM-2FT (500L UP/2,500L DOWN) FIXTURE PROTRUDES 3.6" FROM WALL ADA COMPLIANT	1	3000L/27W (NOMINAL)	LED	WALL	-----	WALL MOUNTED 2FT LED LINEAR DIRECT/ INDIRECT WITH INTEGRAL EMERGENCY BATTERY ON DIRECT LIGHT ONLY. VERIFY MOUNTING HEIGHT AND COLOR/FINISH WITH ARCHITECT PRIOR TO ANY/ALL WORK/ORDERING.	OR APPROVED EQUAL
X1	EXITRONIX	VEX-U-BP-WB-**-G2-USA - (WG - SEE REMARKS)	WITH UNIT			SURFACE WALL	-----	SINGLE FACE EXIT. FIXTURE FURNISHED WITH INTEGRAL BATTERY. **COLOR/FINISH TO BE SPECIFIED BY OWNER/ARCHITECT. SEE PLANS FOR WIREGUARD DESIGNATION.	OR APPROVED EQUAL
XD	EXITRONIX	SLW-15-4K-**-EM	1	15W/1500L (NOMINAL)	LED	SURFACE WALL	-----	MOUNT +12' ABOVE DOOR. COORDINATE WITH ARCHITECT EXACT MOUNTING HEIGHT. FIXTURE FURNISHED WITH INTEGRAL BATTERY. FIXTURE TO ILLUMINATE "ONLY" UPON LOSS OF NORMAL POWER. **COLOR/FINISH TO BE SPECIFIED BY OWNER/ARCHITECT.	OR APPROVED EQUAL
FP	ACUITY	DSXF1LED-P2-40K-MSP-MVOLT-IS-UBV-**	1	4400L/42W (NOMINAL)	LED	TENON	-----	LED FLOOD LIGHT FOR FLAG POLE WITH 4X4 DISTRIBUTION. GROUND MOUNTED LIGHT SUPPLIED WITH ADJUSTABLE SLIP FITTER. COLOR/FINISH TO BE SPECIFIED BY OWNER/ARCHITECT.	OR APPROVED EQUAL
P14	GARDCO	OPF-S-A01-840-T4M-AR1-120-**	1	7000L/42W (NOMINAL)	LED	POLE	-----	SINGLE HEAD POLE MOUNTED 12'-0", L.E.D. LUMINAIRE TYPE 4 DISTRIBUTION, 4000K, MOUNTED ON CONCRETE BASE (SEE DETAIL), SQUARE POLE SHALL MEET CURRENT IBC WIND LOAD RATING FOR THIS REGION.	OR APPROVED EQUAL
W1	NLS LIGHTING	HRM-1-T4-32L-7-40K-UNV-WM-**-FSP20	1	71W/6300L (NOMINAL)	LED	SURFACE WALL	-----	SEE PLANS FOR EXACT MOUNTING HEIGHT. ABOVE FINISHED GRADE TO BOTTOM. COORDINATE WITH ARCHITECT EXACT MOUNTING HEIGHT. FIXTURE FURNISHED WITH INTEGRAL BATTERY, PHOTOCELL AND MOTION SENSOR. **COLOR/FINISH TO BE SPECIFIED BY OWNER/ARCHITECT.	OR APPROVED EQUAL
NOTES:	EEGRP JOB# 5071								

FIXTURE SCHEDULE NOTES

1. LED LAMPS:
   A) KELVIN TEMPERATURES: ALL KELVIN TEMPERATURES LISTED SHALL BE MET WITHIN +/-5% LOSS FACTOR OF 1.0 FOR APPROVAL.
   B) WATTAGE: ALL RATED INPUT WATTAGES LISTED SHALL BE MET WITHIN +/-5% LARGER VARIATIONS WILL NOT BE ACCEPTED.
2. FURNISH PLASTER FRAMES FOR ALL RECESSED LUMINAIRES IN PLASTER CEILINGS.
3. CONTRACTOR SHALL VERIFY EXACT TYPE CEILINGS BEING INSTALLED AND SUPPLY BASIC LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION FOR CELING TO BE FURNISHED.
4. LUMINAIRE MOUNTING AND SUSPENSION SHALL BE AS APPROVED BY ENGINEER AND NO COMBUSTIBLE MATERIALS SHALL BE USED.
5. PROVIDE DEVICES FOR SECURING LUMINAIRE TO CELING GRID TO COMPLY WITH ARTICLE 410.36 OF THE NATIONAL ELECTRICAL CODE FOR ALL LAY-IN TYPE LUMINAIRES. BENT TAB TYPE NOT ACCEPTABLE.
6. FURNISH FACTORY PAINTED COLOR SELECTED BY ARCHITECT.
7. FURNISH COMPLETE WITH SWIVEL HANGER STEMS, LENGTH AS REQUIRED TO MOUNT BELOW PIPING, DUCT, CABLE RACKS, ETC., MINIMUM 7'-6"H. MAINTAIN UNIFORM MOUNTING HEIGHT OF ALL LUMINAIRES THROUGHOUT EACH AREA.
8. ALL APPROVED MANUFACTURERS SUBMITTING FOR PRIOR APPROVAL SHALL PROVIDE A SITE LAYOUT REFLECTING THAT FOOTCANDLES MEET CURRENT CITY CODES AND STANDARDS FOR L.E.D. SITE LIGHTING WITH LAYOUTSHOWN ON SITE PLAN.
9. EPA RATING FOR POLES SHALL MEET CURRENT IBC WIND LOAD CHART FOR THIS REGION.
10. ALL PRIOR APPROVALS MUST BE SUBMITTED 10 BUSINESS DAYS PRIOR TO BID. SUBMIT IN .PDF FORMAT. MANUFACTURER IS RESPONSIBLE FOR REVIEWING ADDENDUM FOR LUMINAIRE APPROVAL. ANY SUBMITTED UNITS NOT ON ADDENDUM SHALL BE CONSIDERED NOT-APPROVED. MANUFACTOR MAY EMAIL SUBMITTALS TO PLANS@EEGRPINC.COM
11. LIGHTING CONTROL LAYOUT IS FOR INTENT OF DESIGN ONLY. EACH APPROVED MANUFACTURER SHALL CONSIDER CONTROL FUNCTION OF EACH AREA AND PROVIDE ALL NECESSARY DEVICES AND BRANCH CIRCUITING FOR A COMPLETE SYSTEM. QUANTITIY OF (CEILING MOUNTED OCCUPANCY SENSORS, WALL STATIONS, CONTROL CABLE, ETC.) ARE BASED ON SEE LEGEND. IT IS THE RESPONSIBILITY OF THE APPROVED MANUFACTURER TO PROVIDE QUANTITIES AS HIS/HER SYSTEM REQUIRES FOR COMPLETE OPERATION. OTHER LIGHTING CONTROL LAYOUTS MUST BE SUBMITTED FOR PRE APPROVAL 10 BUSINESS DAYS PRIOR TO BID. SUBMIT INPDF FORMAT. MANUFACTURER IS RESPONSIBLE FOR REVIEWING ADDENDUM FOR LUMINAIRE APPROVAL. ANY SUBMITTED UNITS NOT ON ADDENDUM SHALL BE CONSIDERED NOT-APPROVED.MANUFACTOR MAY EMAIL SUBMITTALS TO PLANS@EEGRPINC.COM
12. PROVIDE UNSWITCHED HOT TO EMERGENCY BATTERY. BATTERY SHALL OPERATE ONLY DURING LOSS OF POWER TO UNSWITCHED HOT.
13. LIGHTING BRANCH CIRCUITING PLANS DO NOT REFLECT THE ROUTING OF DIMMING CONTROL WIRES. COORDINATE DIMMING CONTROLS WITH APPROVED MANUFACTURER.
14. ALL EXIT FIXTURES IN JOB. ANY EXIT FIXTURE WHERE A CEILING HEIGHT IS 13'-0" OR HIGHER FROM FINISHED FLOOR, THE EXIT FIXTURE SHALL BE PENDANT MOUNTED. PROVIDE ALL REQUIRED PARTS/COMPONENTS FROM MANUFACTURER AS REQUIRED.

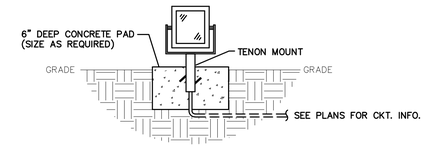


Note: For 4-way wiring, control must be installed line side or load side. It cannot be installed in the 4-way location.

* Copper/Black screw terminal
** Brass/Gold screw terminal
*** Green screw terminal
† For proper wiring, please refer to installation instructions for 3-way/4-way switch.
‡ This wire/terminal may be gray on older products or in retrofit applications.

DAYROOM/DINING DIMMING DETAIL

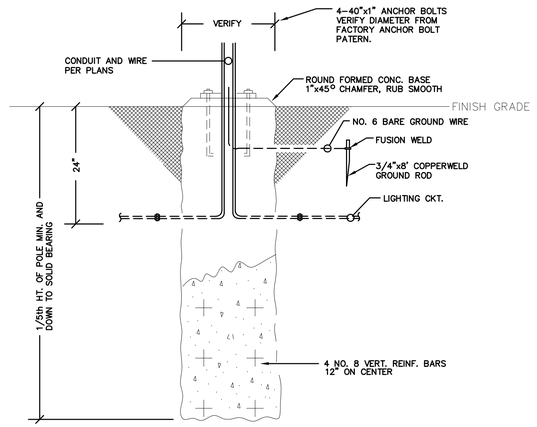
NOT TO SCALE



DETAIL: GROUND-MOUNTED LIGHT

NOT TO SCALE

FIXTURE MARK: F1 & FP



FIXTURE MARK: P14

AT-GRADE POLE BASE

NOT TO SCALE

DETAIL NOTES:

1. 3500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 RE-BARS.
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. FOUNDATION EXCAVATION SHALL BE BY 24" AUGAR IN UNDISTURBED OR PROPERLY COMPACTED FILL.
4. MINIMUM ALLOWABLE SOIL BEARING PRESSURE 3000 PSF. NOTIFY ENGINEER IF BEARING PRESSURE IS LESS.
5. AIR ENTRAINMENT: 4 TO 6%.

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gadsden alabama
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FAX: (256)413-7789
WEB: WWW.EEGRPINC.COM
Job No. 5071

ALABAMA REGISTERED No. 21242 PROFESSIONAL ENGINEER JOHN R. MORGAN JR. 2026

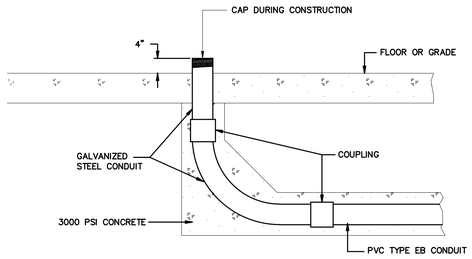
THOMAS M. McELRATH, ARCHITECT
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
Rainbow Drive
for the
City of Gadsden, Alabama

FIXTURE SCHEDULE AND DETAILS

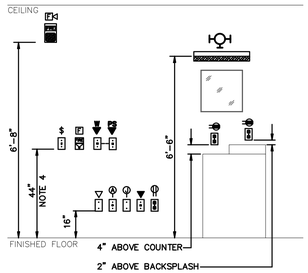
DRAWN	JRM
CHECKED	JRM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23-01
REVISIONS	

SHEET E0.3 OF SHEETS



CONDUIT FLOOR PENETRATION

NOT TO SCALE

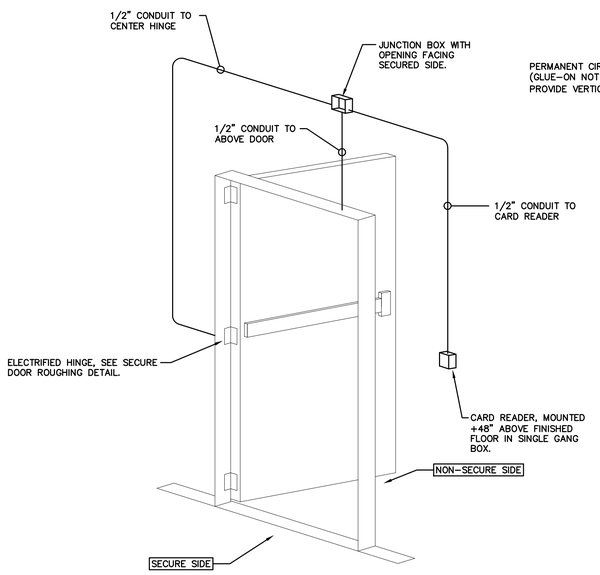


TYPICAL MOUNTING HEIGHTS

NOT TO SCALE

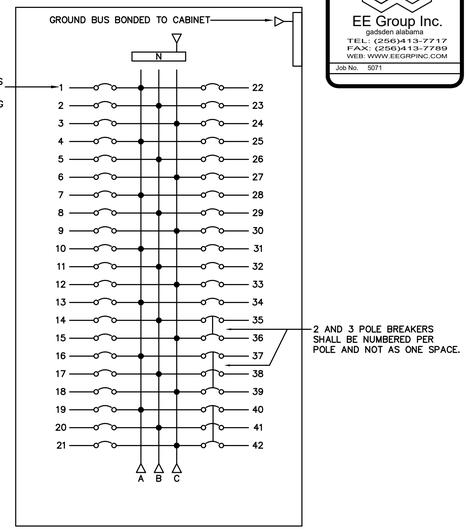
NOTES:

1. INDICATED MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO BOTTOM OF OUTLET BOX, UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL REQUIREMENTS.
3. INSTALL OUTLETS THAT ARE IN CLOSE PROXIMITY ON THE SAME CENTERLINE.
4. INDICATED DEVICES MOUNTED IN A BLOCK WALL SHALL BE 4'-0" TO TOP OF COVER PLATE.



CARD READER SECURE DOOR (SINGLE)

NOT TO SCALE

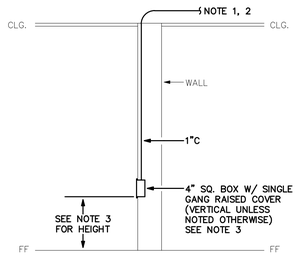


PANELBOARD NOTES

NOT TO SCALE

DETAIL NOTES:

1. ARRANGE BREAKERS AS FOLLOWS: 1 POLE, LOW TO HIGH TRIP; 2 POLE, LOW TO HIGH TRIP; 3 POLE, LOW TO HIGH TRIP; SPARES THEN SPACE.
2. ALL PANELS TO HAVE DOOR-IN-DOOR (HINGED TRIM) CONSTRUCTION.
3. FOR SURFACE MOUNTED PANELS INSTALL ALL NAMEPLATES (PER DETAILS) USING MACHINE SCREWS. FOR FLUSH PANELS IN FINISHED SPACES, INSTALL NAMEPLATES TO INSIDE OF DOOR USING 2 PART EPOXY (12HR)
4. FOR ALL FLUSH PANELS, FURNISH AND INSTALL 4EA. 1" EMPTY CONDUITS TO ABOVE NEAREST ACCESSIBLE CLG, LABELS AS SPARES AND PROVIDE REQD. FIRESTOP.
5. ALL PANELS TO HAVE WELDED METAL DIRECTORY CARD HOLDERS.



AUXILIARY OUTLETS

NOT TO SCALE

AUXILIARY OUTLET DETAIL NOTES

1. AUXILIARY CONDUIT ROUTING: ALL CONDUITS SHALL BE ROUTED TO ABOVE NEAREST ACCESSIBLE CEILING AND SHALL BE TERMINATED WITH A SMOOTH BUSHING AND LABELED PER SPECIFICATIONS.
2. AUXILIARY CABLE ROUTING: PROVIDE CABLE PATHWAY FOR ALL NEW AUXILIARY CABLES. FURNISH AND INSTALL NEW CONDUITS, J-HOOKS, CABLE TRAY AND/ OR SLEEVES AS REQUIRED TO PROVIDE A PATHWAY TO TERMINATION LOCATION OF ALL NEW CABLES. FIRESTOP ALL NEW FIRE RATED PENETRATIONS PER SPECIFICATIONS. NO CABLE WILL BE UNSUPPORTED FOR A DISTANCE GREATER THAN 3ft. CABLE TRAY AND J-HOOKS SHALL ONLY BE PERMITTED ABOVE L.A.T. CEILING.
3. AUXILIARY OUTLETS SHALL BE MOUNTED AT HEIGHTS AS INDICATED ABOVE FINISHED FLOOR AND SHALL BE CONFIGURED AS FOLLOWS WITH DEVICE AND ICON COLORS AS DIRECTED BY ARCHITECT.

▶ DATA/ VOIP OUTLET – FLUSH MOUNTED IN 4" SQUARE BOX WITH SINGLE GANG RAISED COVER AT +16" A.F.F. FURNISH AND INSTALL TWO EACH CAT6 CONNECTORS (LEVITON# 61110-R*6) WITH DATA ICONS FOR EACH JACK AS INDICATED, ONE EACH FACEPLATE (LEVITON# 43080-1L* WITH PORT CAPACITY AS REQUIRED TO PROVIDE ONE FUTURE PORT) WITH ONE EACH BLANK (LEVITON# 41084-B*B). FURNISH AND INSTALL TWO EACH CAT6 CABLES FROM OUTLET TO SPECIFIED BACKBOARD VIA CONDUIT, J-HOOKS, SLEEVES AND/ OR CABLE TRAY AND CONNECT TO EXISTING LAN AS REQUIRED. ALL CABLES SHALL BE TERMINATED, BOTH ENDS, PER SPECIFICATIONS. PROVIDE 10FT SERVICE LOOP ABOVE CEILING AT WORK AREA OUTLET AND AT IDF/ COMM ROOM.

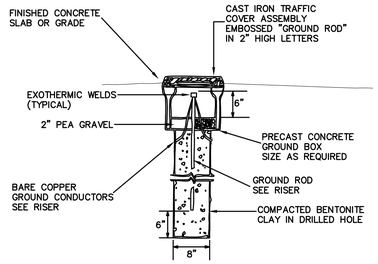
TV WALL DISPLAY OUTLET – FLUSH MOUNTED IN 4" SQUARE BOX WITH SINGLE GANG RAISED COVER AT +60" A.F.F. FURNISH AND INSTALL ONE EACH "F" CONNECTOR AND ONE EACH CAT6 CONNECTOR (LEVITON# 61110-R*6) WITH DATA ICONS FOR EACH JACK AS INDICATED, ONE EACH FACEPLATE (LEVITON# 43080-1L* WITH PORT CAPACITY AS REQUIRED TO PROVIDE ONE FUTURE PORT) WITH ONE EACH BLANK (LEVITON# 41084-B*B). FURNISH AND INSTALL ONE EACH CAT6 CABLE AND ONE EACH RG6 CABLE FROM OUTLET TO AUXILIARY BACKBOARD VIA CONDUIT, ALL CABLES SHALL BE TERMINATED, BOTH ENDS, PER SPECIFICATIONS. PROVIDE 10FT SERVICE LOOP ABOVE CEILING AT OUTLET AND AT AUXILIARY BACKBOARD.

W WIRELESS ACCESS POINT OUTLET (CEILING) – FLUSH MOUNTED IN 4" SQUARE BOX IN CEILING. FURNISH AND INSTALL TWO EACH CAT6 CONNECTORS (LEVITON# 61110-R*6) TERMINATED ABOVE CEILING. FURNISH AND INSTALL TWO EACH CAT6 CABLES FROM OUTLET TO SPECIFIED BACKBOARD VIA CONDUIT, J-HOOKS, SLEEVES AND/ OR CABLE TRAY AND CONNECT TO LAN AS REQUIRED. ALL CABLES SHALL BE TERMINATED, BOTH ENDS, AS DIRECTED BY OWNER. PROVIDE 10FT SERVICE LOOP ABOVE CEILING AT WAP AND AT AUXILIARY BACKBOARD. WAP TO BE FURNISHED AND INSTALLED BY OTHERS (N.I.C.).

CR CARD READER CONNECTION – FLUSH MOUNTED IN 4" SQUARE BOX, MOUNTED ON STRIKE SIDE OF DOOR, WITH SINGLE GANG RAISED COVER AT +44" A.F.F. FURNISH AND INSTALL TWO EACH CAT6 CABLES FROM OUTLET TO AUXILIARY BACKBOARD VIA CONDUIT, J-HOOKS, SLEEVES AND/ OR CABLE TRAY AND CONNECT TO EXISTING LAN AS REQUIRED. ALL CABLES SHALL BE TERMINATED, BOTH ENDS, PER SPECIFICATIONS. PROVIDE 10FT SERVICE LOOP ABOVE CEILING AT DOOR AND AT AUXILIARY BACKBOARD. DEVICE TO BE FURNISHED AND INSTALLED BY OTHERS (N.I.C.).

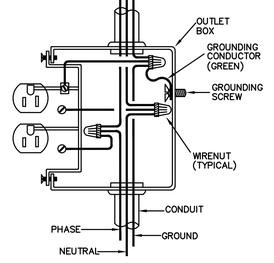
S CEILING SPEAKER OUTLET – FLUSH MOUNTED IN 4" SQUARE BOX IN CEILING. FURNISH AND INSTALL TWO EACH CAT6 CONNECTORS (LEVITON# 61110-R*6) TERMINATED ABOVE CEILING. FURNISH AND INSTALL TWO EACH CAT6 CABLES FROM OUTLET TO SPECIFIED BACKBOARD VIA CONDUIT, J-HOOKS, SLEEVES AND/ OR CABLE TRAY AND CONNECT TO AS REQUIRED. ALL CABLES SHALL BE TERMINATED, BOTH ENDS, AS DIRECTED BY OWNER. PROVIDE 10FT SERVICE LOOP ABOVE CEILING AT WAP AND AT AUXILIARY BACKBOARD. WAP TO BE FURNISHED AND INSTALLED BY OTHERS (N.I.C.).

WAP▶ WIRELESS ACCESS POINT (WALL) – FLUSH MOUNTED IN 4" SQUARE BOX WITH SINGLE GANG RAISED COVER AT +16" A.F.F. FURNISH AND INSTALL TWO EACH CAT6 CONNECTORS (LEVITON# 61110-R*6) WITH DATA ICONS FOR EACH JACK AS INDICATED, ONE EACH FACEPLATE (LEVITON# 43080-1L* WITH PORT CAPACITY AS REQUIRED TO PROVIDE ONE FUTURE PORT) WITH ONE EACH BLANK (LEVITON# 41084-B*B). FURNISH AND INSTALL TWO EACH CAT6 CABLES FROM OUTLET TO SPECIFIED BACKBOARD VIA CONDUIT, J-HOOKS, SLEEVES AND/ OR CABLE TRAY AND CONNECT TO EXISTING LAN AS REQUIRED. ALL CABLES SHALL BE TERMINATED, BOTH ENDS, PER SPECIFICATIONS. PROVIDE 10FT SERVICE LOOP ABOVE CEILING AT WORK AREA OUTLET AND AT IDF/ COMM ROOM.



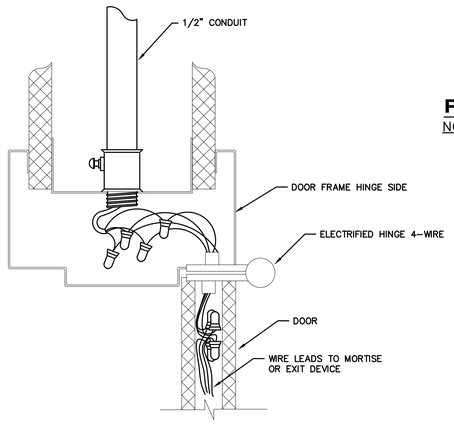
GROUND ROD TEST WELLS (1 REQD. PER SERVICE)

NOT TO SCALE



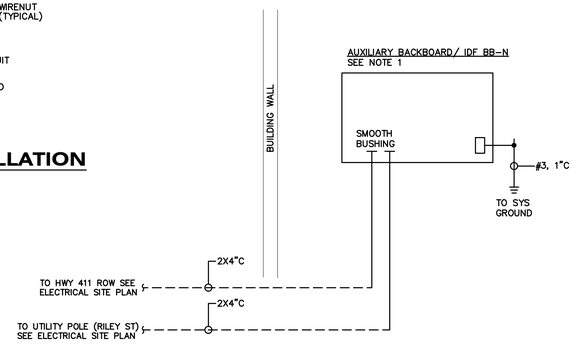
RECEPTACLE INSTALLATION

NOT TO SCALE



SECURE DOOR ROUGHING

NOT TO SCALE



AUXILIARY RISER

NOT TO SCALE

AUXILIARY RISER NOTES

1. AUXILIARY BACKBOARD BB-N SHALL BE WALL-TO-WALL, FLOOR-TO-CEILING, 3/4" PLYWOOD PAINTED TWO COATS BOTH SIDES AND EDGES. FURNISH AND INSTALL THE FOLLOWING EQUIPMENT:
   - 1.1. 1 EACH WALL-MOUNTED RACK (MIDDLE ATLANTIC# DWR-21-22PD).
   - 1.2. 2 EACH HORIZONTAL PDUS (SEE SPECS).
   - 1.3. 48 PORT CAT6 PATCH PANEL (LEVITON# 69270-U48) COMPLETE WITH 48 EACH CAT 6 CONNECTORS (LEVITON# 61110-R*6). QUANTITY AS REQUIRED FOR ALL CABLES +10% FUTURE GROWTH.
   - 1.4. HORIZONTAL CABLE MANAGERS (LEVITON# 49*RU-HFR). QUANTITY AS REQUIRED TO PROVIDE 1RU OF CABLE MANAGEMENT ABOVE OR BELOW EACH 24 CABLES. PROVIDE EQUAL QUANTITY FOR USE IN CABLE MANAGEMENT AT OWNER FURNISHED SWITCHES.

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EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
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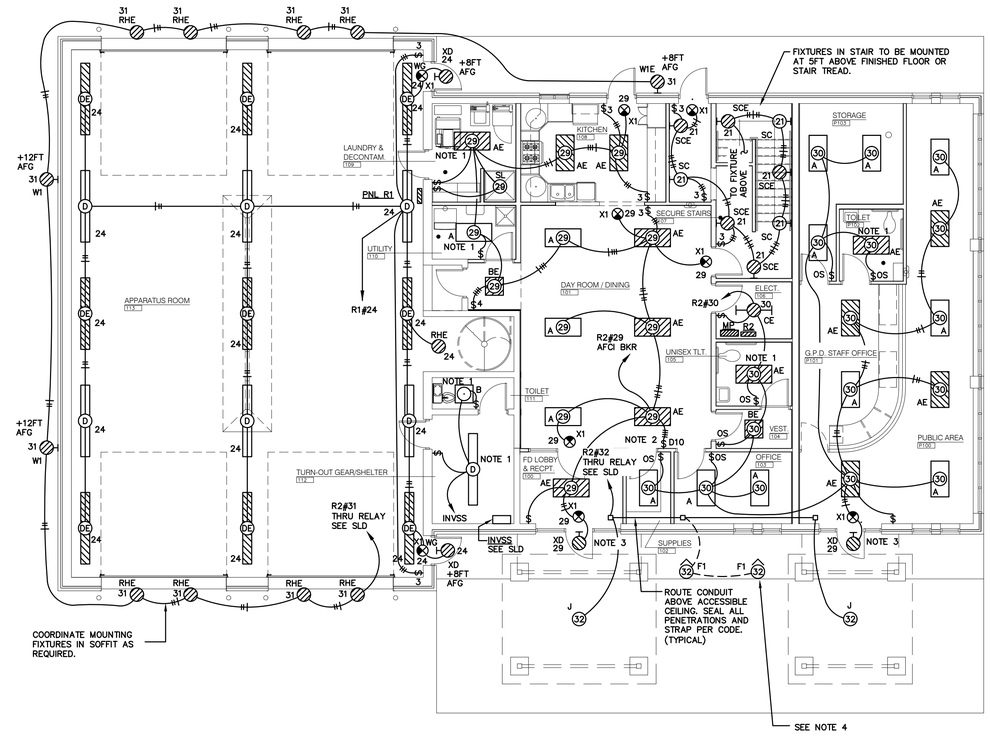
City of Gadsden, Alabama

ELECTRICAL DETAILS

DRAWN	JRM
CHECKED	JRM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23-01
REVISIONS	

SHEET E0.4 OF SHEETS

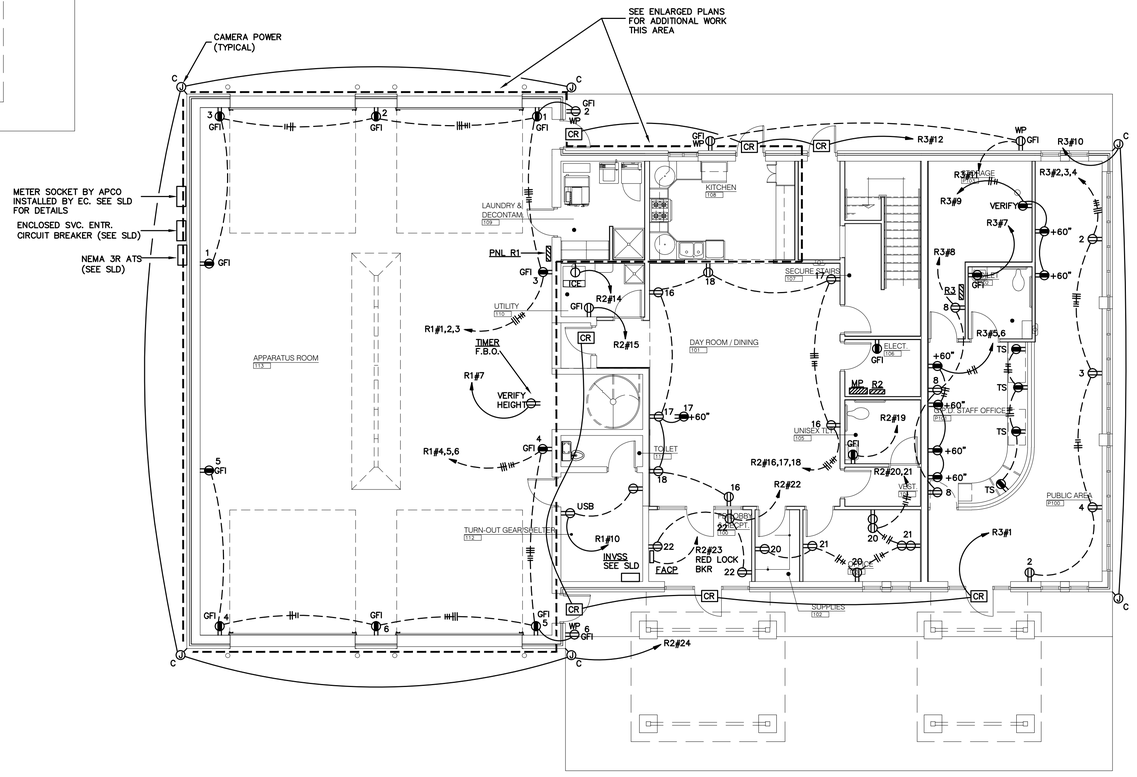


FIRST FLOOR PLAN - LIGHTING

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

NOTES THIS PLAN:

1. LIGHTING THIS AREA TO BE CONNECTED TO CEILING MOUNTED EXHAUST FAN. EXHAUST FAN TO BE ENERGIZED WITH LIGHTING CONTROLS. SEE MECHANICAL PLANS FOR EXHAUST FAN LOCATIONS.
2. SEE WIRING DIAGRAM DETAIL ON SHEET E0.4 FOR REQUIRED DIMMING CONTROL IN DAYROOM/DINING.
3. VERIFY WITH ARCHITECT MOUNTING HEIGHT AND LOCATION PRIOR TO ANY/ALL WORK.
4. FLOOD LIGHTS MOUNTED IN PLANTING BED TO ILLUMINATE BUILDING MOUNTED SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGHING. SEE DETAIL THIS SHEET FOR REQUIRED FIXTURE BASE.



FIRST FLOOR PLAN - POWER

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

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FIRST FLOOR PLAN - LIGHTING & POWER

DRAWN	JRM
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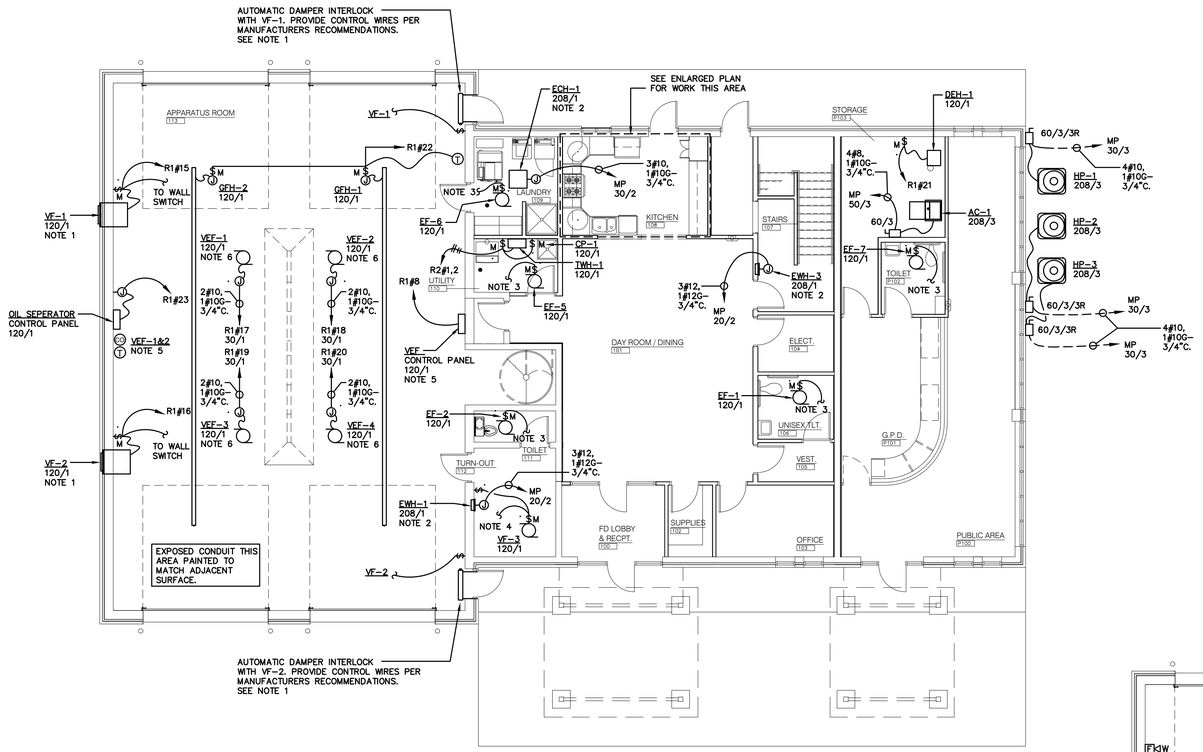
SHEET E2.1 OF SHEETS

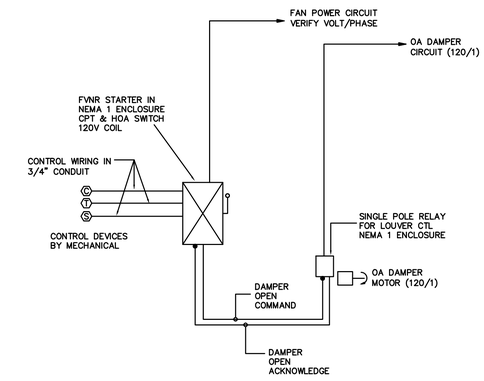


FIRST FLOOR PLAN - M/P CONNECTIONS

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

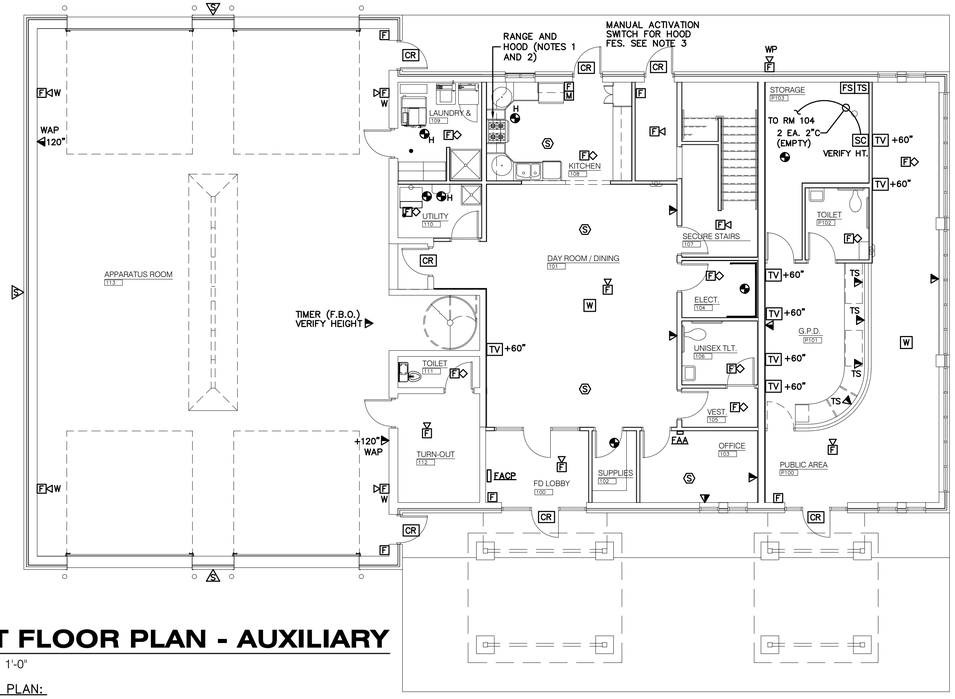
NOTES THIS PLAN:

1. VENTILATION FAN PROVIDED WITH INTEGRAL HAND OFF AUTO SWITCH. VENTILATION FAN TO BE CONTROLLED BY WALL MOUNTED THERMOSTAT AND MANUAL WALL SWITCH. VENTILATION FAN TO CONNECT TO AUTOMATIC DAMPER SHOWN. THE AUTOMATIC DAMPER SHALL OPEN AND THE VENTILATION FAN SHALL RUN. COORDINATE WITH MECHANICAL PLANS AND SCHEDULES PRIOR TO ANY/ALL WORK.
2. UNIT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. COORDINATE WITH MECHANICAL PLANS AND SCHEDULES PRIOR TO ANY/ALL WORK.
3. EXHAUST FAN TO INTERLOCK WITH LIGHTS IN ROOM SHOWN. SEE LIGHTING PLAN FOR REQUIRED CIRCUIT. COORDINATE WITH MECHANICAL PLANS AND SCHEDULES PRIOR TO ANY/ALL WORK.
4. EXHAUST FAN PROVIDED WITH INTEGRAL EC MOTOR FOR SOFT START. INTERLOCK WITH LIGHTS IN ROOM CONNECTED TO INVERTER. SEE LIGHTING PLAN FOR REQUIRED CIRCUIT AND SEE SINGLE LINE DIAGRAM. COORDINATE WITH MECHANICAL PLANS AND SCHEDULES PRIOR TO ANY/ALL WORK.
5. VEHICLE EXHAUST SYSTEM CONTROL PANEL BY OTHERS SHOWN APPROXIMATE COORDINATE EXACT LOCATION. EXHAUST VEF-1,2,3,4 TO CONNECT PER MANUFACTURERS RECOMMENDATIONS TO HAVE A FULLY FUNCTIONING SYSTEM. ELECTRICAL CONTRACTOR TO VERIFY ALL REQUIRED CONNECTIONS PRIOR TO ANY/ALL WORK.
6. EXHAUST FAN PROVIDED WITH INTEGRAL HAND OFF AUTO SWITCH. COORDINATE WITH MECHANICAL PLANS AND SCHEDULES PRIOR TO ANY/ALL WORK.



EXHAUSTER ROUGHING

DO NOT SCALE



FIRST FLOOR PLAN - AUXILIARY

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

NOTES THIS PLAN:

1. GAS SUPPLY TO RANGE TO BE SHUT OFF UPON ACTIVATION OF THE HOOD FIRE EXTINGUISHING SYSTEM (FES). FURNISH, INSTALL AND CONNECT GAS RESET SWITCH TO OVERRIDE SHUTOFF. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN
   - 1.1. CONNECT THE HOOD TO THE FIRE ALARM SYSTEM SUCH THAT ACTIVATION OF THE HOOD FES INITIATES A FULL BUILDING FIRE ALARM.
   - 1.2. HOOD INCLUDES INTEGRAL OUTPUT FOR CONTROL OF A RELAY TO SHUNT GAS (VIA SOLENOID VALVE, SEE FIRST FLOOR PLAN – POWER) UPON ACTIVATION OF HOOD FES. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL GAS SOLENOID VALVE, CABLING, CONDUIT, BOXES, RELAYS, CONNECTIONS, SETUP, ETC. AS REQUIRED FOR SHUNT OF GAS TO THE RANGE IN THE EVENT OF ACTIVATION OF THE HOOD FES.
2. GAS SUPPLY TO RANGE TO BE SHUT OFF UPON ACTIVATION OF THE STATION ALERTING SYSTEM (SAS). FURNISH, INSTALL AND CONNECT GAS RESET SWITCH TO OVERRIDE SHUTOFF. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN
   - 2.1. COORDINATE WITH SAS CONTRACTOR FOR OUTPUT FOR CONTROL OF A RELAY TO SHUNT GAS (VIA SOLENOID VALVE, SEE FIRST FLOOR PLAN – POWER) UPON ACTIVATION OF SAS. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL GAS SOLENOID VALVE, CABLING, CONDUIT, BOXES, RELAYS, CONNECTIONS, SETUP, ETC. AS REQUIRED FOR SHUNT OF GAS TO THE RANGE IN THE EVENT OF ACTIVATION OF THE HOOD SAS.
3. MANUAL ACTIVATION SWITCH FOR HOOD FIRE SUPPRESSION SYSTEM. FURNISH AND INSTALL BOX AND CONDUIT AS REQUIRED FOR CONNECTION TO HOOD FES. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO ANY ROUGH IN.

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FIRST FLOOR PLAN - M/P EQUIPMENT CONNECTIONS & AUXILIARY

DRAWN	JRM
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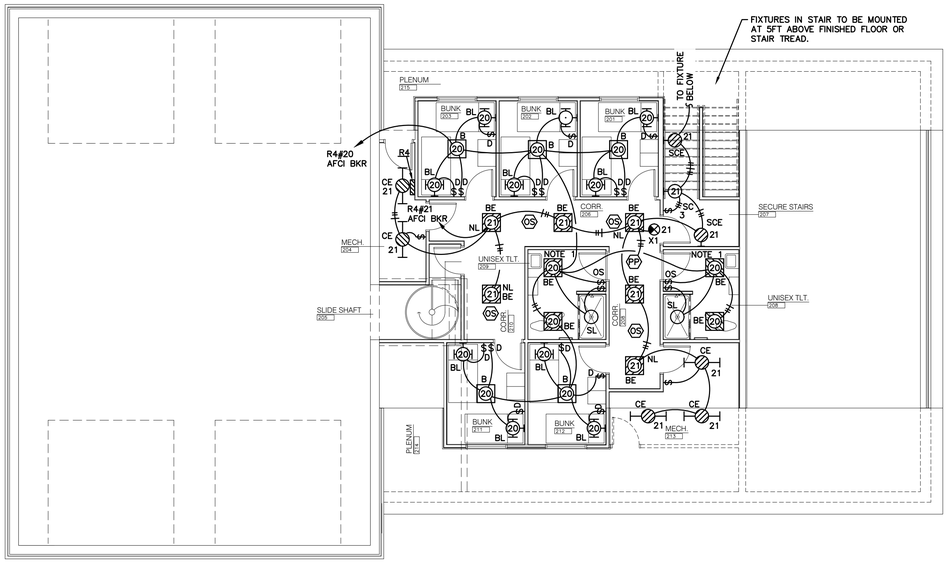
SHEET E2.2 OF SHEETS

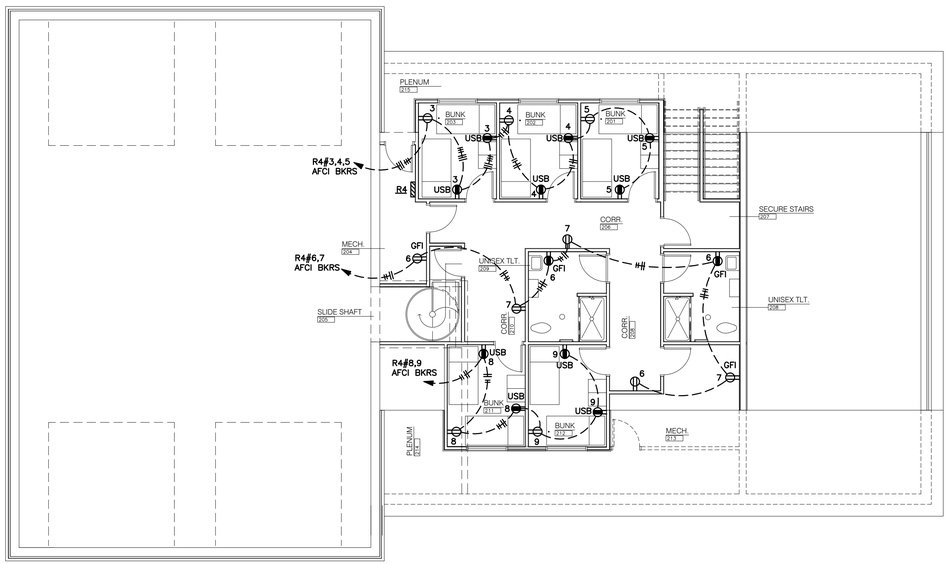


SECOND FLOOR PLAN - LIGHTING

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

NOTES THIS PLAN:

1. LIGHTING THIS AREA TO BE CONNECTED TO CEILING MOUNTED EXHAUST FAN. EXHAUST FAN TO BE ENERGIZED WITH LIGHTING CONTROLS. SEE MECHANICAL PLANS FOR EXHAUST FAN LOCATIONS.



SECOND FLOOR PLAN - POWER & AUXILIARY

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

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SECOND FLOOR PLAN - LIGHTING & POWER

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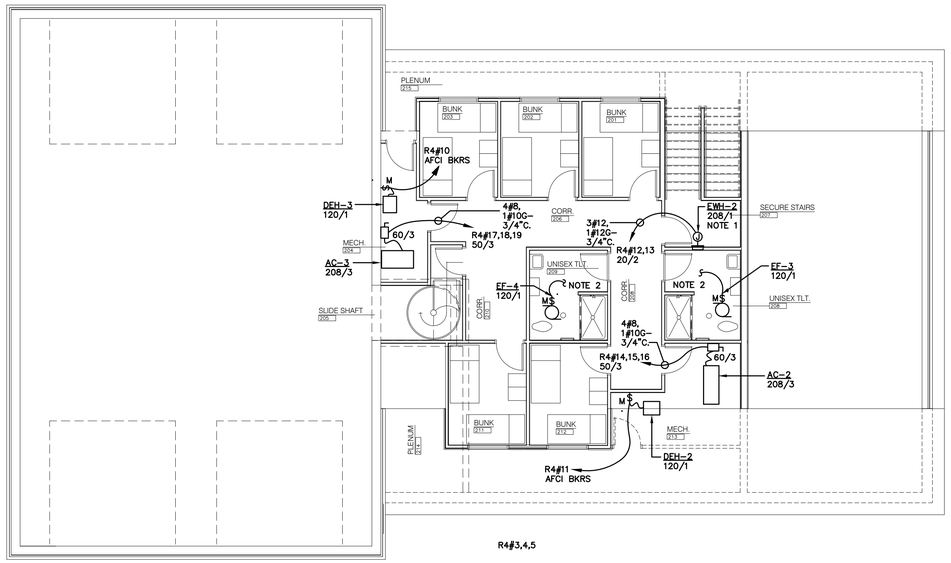


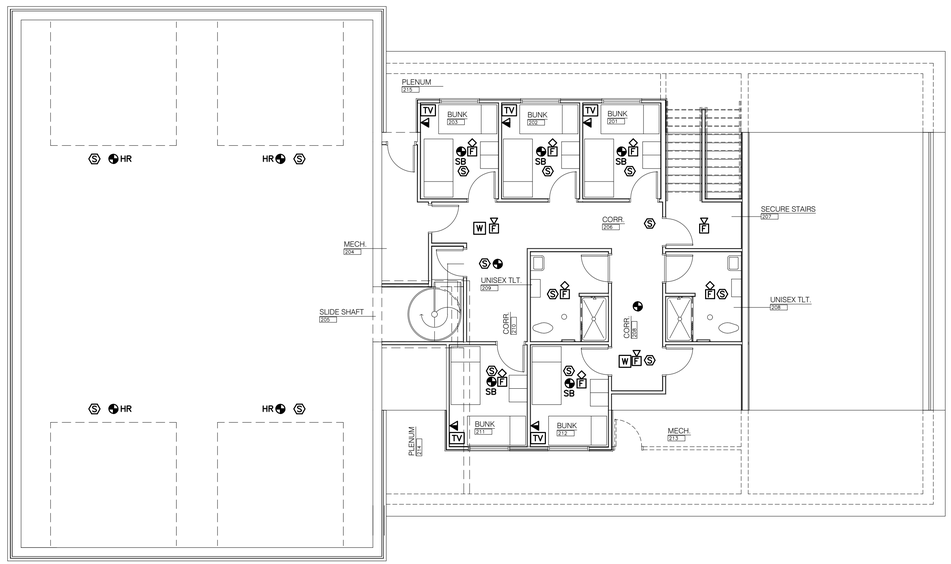
R4#3,4,5

SECOND FLOOR PLAN - M/P CONNECTIONS

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

NOTES THIS PLAN:

1. UNIT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. COORDINATE WITH MECHANICAL PLANS AND SCHEDULES PRIOR TO ANY/ALL WORK.
2. EXHAUST FAN TO INTERLOCK WITH LIGHTS IN ROOM SHOWN. SEE LIGHTING PLAN FOR REQUIRED CIRCUIT. COORDINATE WITH MECHANICAL PLANS AND SCHEDULES PRIOR TO ANY/ALL WORK.



SECOND FLOOR PLAN - AUXILIARY

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

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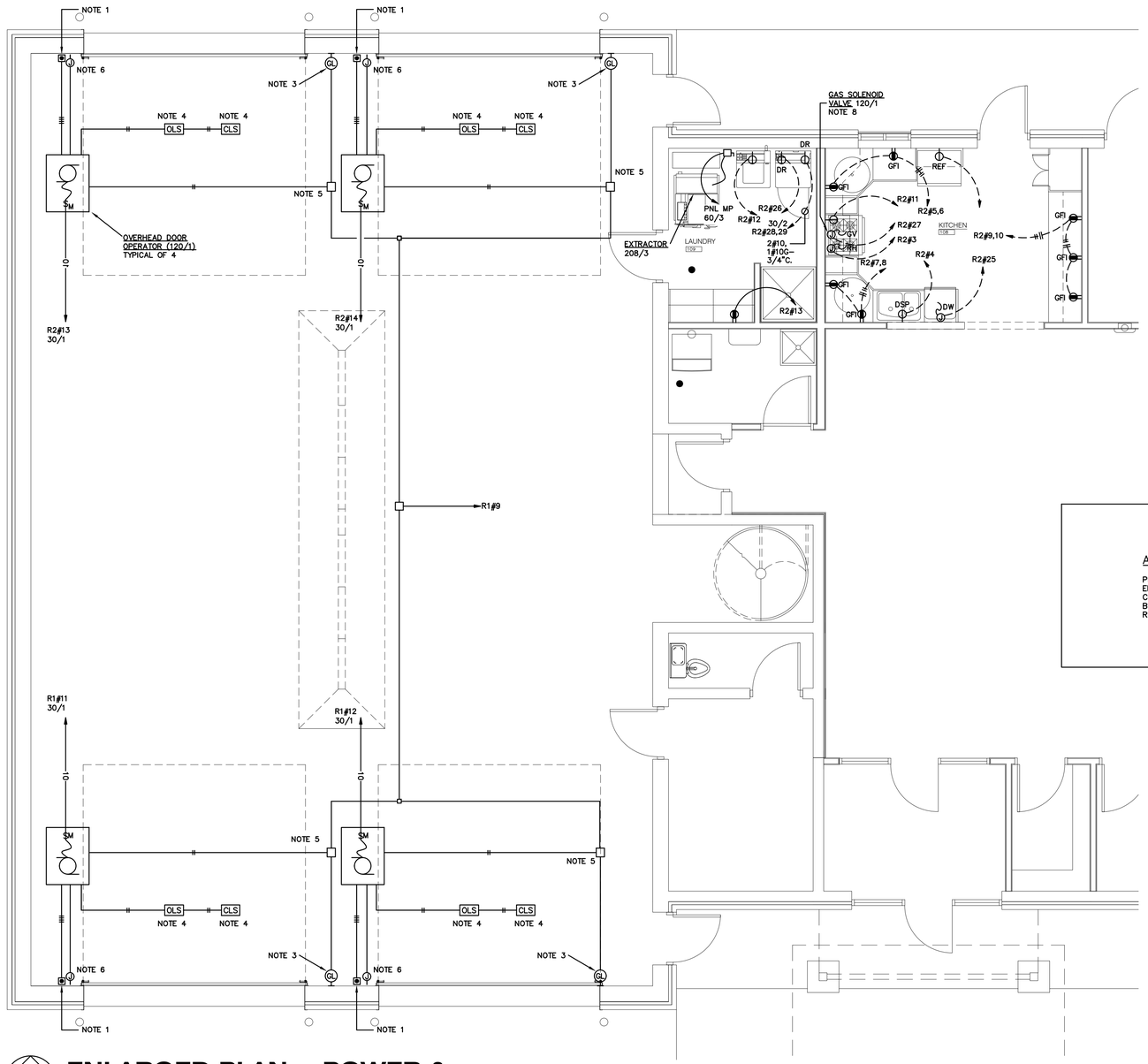
ARCHITECTURE and SPACE PLANNING
717 MERIT SPRINGS ROAD
GADSDEN, ALABAMA 35901
PHONE: (256) 490-8244
EMAIL: TOM@TMM-ARCHITECT.COM

A NEW FIRE STATION NO. 8
located at
Rainbow Drive
for the
City of Gadsden, Alabama

SECOND FLOOR PLAN M/P CONNECTIONS AND AUXILIARY

DRAWN	JRM
CHECKED	JRM
SCALE	AS NOTED
DATE	DECEMBER 30, 2025
FILE	
JOB NO.	23–01
REVISIONS	

SHEET E3.2 OF SHEETS



ADDITIVE ALTERNATE 1 – BI-FOLD APPARATUS DOORS:

PROVIDE AND INSTALL ALL ELECTRICAL AND LOW VOLTAGE FOR BI-FOLD BAY DOORS. FURNISH ALL ELECTRICAL DISCONNECT SWITCHES, CONDUIT, WIRING AND LOW VOLTAGE WIRING COMPLETE. ELECTRICAL CONTRACTOR TO VERIFY ALL REQUIREMENTS CONNECTIONS AND COMPONENTS WITH MANUFACTURER PRIOR TO BIDDING. DOORS SHALL BE 208V, THREE PHASE DOORS. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL REQUIRED BREAKERS, CONDUIT AND WIRE FROM DOORS TO ELECTRICAL PANEL.

ENLARGED PLAN - POWER & OVERHEAD DOOR CONNECTIONS

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

NOTES THIS SHEET:

1. DOOR CONTROL SWITCH(ES) FURNISHED BY DOOR SUPPLIER, INSTALLED BY ELECTRICAL. CONTROL WIRING IN 3/4" EMPTY CONDUIT BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH THE OVERHEAD DOOR SUPPLIER AND PROVIDE ALL WIRING AS REQUIRED FOR A FULL FUNCTIONING DOOR AS INTENDED. TYPICAL 4 LOCATIONS. DOOR SHALL HAVE THE CAPABILITY TO BE CONTROLLED FROM THIS LOCATION OR REMOTELY VIA THE BUILDING AUTOMATION CONTROL PANEL.
2. CONTROL WIRING IN 3/4" TO OVERHEAD DOOR CONTROLLER TO BE FURNISHED BY THE DOOR SUPPLIER. INSTALLED AND WIRED BY THE E.C.. COORDINATE WITH THE OVERHEAD DOOR SUPPLIER AND PROVIDE ALL WIRING AS REQUIRED FOR A FULL FUNCTIONING DOOR AS INTENDED. TYPICAL 4 LOCATIONS. DOOR SHALL HAVE THE CAPABILITY TO BE CONTROLLED FROM THIS LOCATION AND THE REMOTE DOOR DISABLE PANEL (SEE NOTE 5).
3. BAY DOOR SIGNAL LIGHT FURNISHED BY DOOR OPENER CONTRACTOR. INSTALLED AND WIRED BY THE E.C AT 7'-6" AFF TO BOTTOM. LIGHT NORMALLY OFF; ON (GREEN) WHEN OVERHEAD DOOR IS FULLY OPENED. VERIFY ALL WIRING REQUIREMENTS PRIOR TO ANY WORK.
4. OVERHEAD DOOR OPEN AND CLOSED LIMIT SWITCHES FURNISHED BY THE DOOR SUPPLIER. INSTALLED AND WIRED BY THE E.C.. LIMIT SWITCH TO OPERATE BAY DOOR SIGNAL LIGHT (ON–GREEN) WHEN DOOR IS FULLY OPENED. VERIFY ALL WIRING REQUIREMENTS PRIOR TO ANY WORK. TYPICAL WHERE SHOWN.
5. 20A, 120V, SINGLE POLE, ELECTRICALLY–HELD LIGHTING RELAY IN NEMA 1 ENCLOSURE WITH 24V COILS (VERIFY) FOR TRAFFIC SIGNAL (DOOR OPEN) LIGHT. VERIFY REQUIRED CONNECTIONS WITH DOOR SUPPLIER PRIOR TO ANY ROUGHING..
6. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 3/4" EMPTY CONDUIT FROM DOOR CONTROLLER TO JUNCTION BOX MOUNTED AT APPROXIMATELY 7 FT. FOR ELECTRICAL LEADING EDGE SENSOR. OVERHEAD DOOR CONTRACTOR TO PROVIDE ALL WIRING BETWEEN SENSORS AND DOOR CONTROLLER WITH FINAL CONNECTIONS BY DOOR CONTRACTOR. ALL PHOTO SENSORS ARE LOW VOLTAGE AND MAY BE INSTALLED EXPOSED AND SUPPORTED TO THE DOOR TRACK. VERIFY EXACT HEIGHTS AND LOCATIONS PRIOR TO ANY ROUGHING.
7. OVERHEAD DOOR ROUGHING AND ELECTRICAL BASED ON INFORMATION PROVIDED BY RAYNOR MFG. PRODUCT LINE. COORDINATE ALL ELECTRICAL REQUIREMENTS AND ROUGHING WITH APPROVED SUBMITTALS PRIOR TO ANY ROUGHING.
8. FURNISH, INSTALL AND CONNECT GAS SOLENOID VALVES AS REQUIRED FOR GAS SHUTOFF TO RANGE. SEE FIRST FLOOR PLAN – AUXILIARY FOR ADDITIONAL INFORMATION.

EE Group Inc.
gadsden alabama
TEL: (256)413-7717
FAX: (256)413-7789
WEB: WWW.EEGRPINC.COM
Job No. 5071

ALABAMA
REGISTERED
No. 21242
PROFESSIONAL ENGINEER
JOHN R. MORGAN JR.

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ENLARGED PLANS 1 - ELECTRICAL

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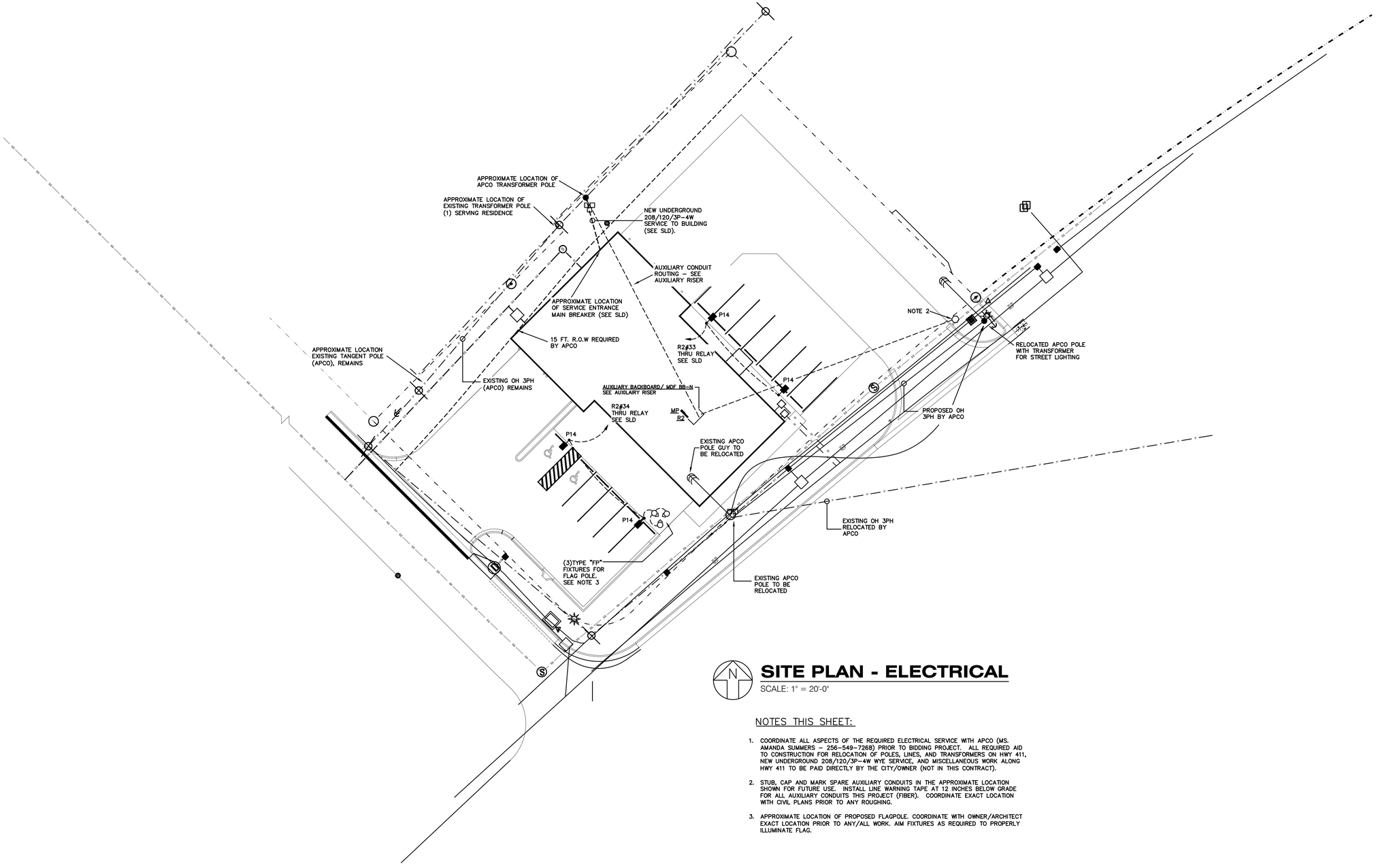

SITE PLAN - ELECTRICAL

SCALE: 1" = 20'-0"

NOTES THIS SHEET:

1. COORDINATE ALL ASPECTS OF THE REQUIRED ELECTRICAL SERVICE WITH APCO (MS. AMANDA SUMMERS – 256-549-7268) PRIOR TO BIDDING PROJECT. ALL REQUIRED AID TO CONSTRUCTION FOR RELOCATION OF POLES, LINES, AND TRANSFORMERS ON HWY 411, NEW UNDERGROUND 208/120/3P-4W WYE SERVICE, AND MISCELLANEOUS WORK ALONG HWY 411 TO BE PAID DIRECTLY BY THE CITY/OWNER (NOT IN THIS CONTRACT).
2. STUB, CAP AND MARK SPARE AUXILIARY CONDUITS IN THE APPROXIMATE LOCATION SHOWN FOR FUTURE USE. INSTALL LINE WARNING TAPE AT 12 INCHES BELOW GRADE FOR ALL AUXILIARY CONDUITS THIS PROJECT (FIBER). COORDINATE EXACT LOCATION WITH CIVIL PLANS PRIOR TO ANY ROUGHING.
3. APPROXIMATE LOCATION OF PROPOSED FLAGPOLE. COORDINATE WITH OWNER/ARCHITECT EXACT LOCATION PRIOR TO ANY/ALL WORK. AIM FIXTURES AS REQUIRED TO PROPERLY ILLUMINATE FLAG.

SITE PLAN - ELECTRICAL

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