ETC Engineers & Architects, Inc.

ENGINEERS ▪ ARCHITECTS ▪ PLANNERS

▪ 1510 SOUTH BROADWAY, LITTLE ROCK, AR 72202 ▪ PHONE 501-375-1786 ▪ FAX 501-375-1277 ▪

ADDENDUM NO.2

DATE: May 31, 2019
PROJECT: Paragould Fire Station #1
Paragould, Greene County, Arkansas
ETC Project No.: 15032CPARA

TO ALL PROSPECTIVE BIDDERS:

This Addendum forms a part of the Contract Documents and modifies or interprets the Project Manual and Drawings as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

CLARIFICATIONS:

1. The Bid Opening will be 2 PM, June 11 at Paragould City Hall, 301 West Court Street, Paragould Arkansas

2. There will be a non-mandatory pre-bid conference 1 PM, June 04 at Paragould City Hall.

GENERAL:

1. The following electrical changes are related to the Radiant Floor System:
    - Provide a main 20A disconnect in the equipment room for the entire radiant floor system. Run conduit and power from the disconnect to the control panel and the thermostat.
    - Run conduit and wire from the Control Panel to both pumps
    - Boxes and conduit in the equipment room may be surface mounted and exposed
    - Control Panel: 4” x 4” box surface mounted
    - Thermostat: 2” x 4” box flush mounted
    - Outdoor temperature sensor: Provide a 2” x 4” flush mounted box on exterior of the south wall of the work room. This box should be flush mounted with a conduit back to the equipment room.
    - See drawing sheet R1.1
    - Low voltage wiring will be the responsibility of the Radiant Floor Contractor

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PROJECT MANUAL:

A. **Section 01030 Allowances**

1. Revise Allowance 1 to read: Lump-sum allowance: $47,000.00, for installation of the STATION ALERTING SYSTEM.
2. Revise Allowance 2 to read: Lump-sum allowance: $14,500.00, for exterior and interior signage. (ALLOWANCE #2 SHALL INCLUDE OF A BUILDING PLAQUE).

B. Section 08330 Sectional Overhead Alum. And Glass Doors, Part 2.2:

1 Item 6: Revise the type of Commercial Door Opener to **RSX.**
2. Add Item 8.
3. Add Item 9.
4. Add Item 10**.**

C. Add Specification Section 08360 Four Fold Doors

Architectural DRAWINGS:

Index:

1. Revised Index to indicate three (3) new sheets added: A4.1.1, A6.1, A6.2

A0.1 Keynotes:

1. Revise Note 8.3.1.

2. Revise Note 10.1.

A1.0 Overall Key Floor Plan

1. Added Window Tags at Lobby/Exercise

2. Added Window Tag for glass door/window unit @ Hall 5

3. Added Tag for Enlarged Plan at Lobby / Exercise

Sheet A4.1 Window Types:

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1. Revised Window Types J and N

A4.1.1: (New Sheet) Added Sheet A4.1.1 Interior Window Types

A4.4 Interior Elevations:

1. Revised Detail 1

2. Revised Detail 2

3. revised Detail 3

A5.4 Apparatus Room Wall Details:

1. Clarified perimeter insulation

2. Clarified Vapor Barrier requirement

A6.1: (New Sheet) Added Sheet A6.1 Door Details

A6.2: (New Sheet) Added Sheet A6.2 Finish Schedule

Electrical DRAWINGS:

E4.1:

1. Revised for clarity.

Structural DRAWINGS:

1. Added Mezzanine Framing

2. Added Details

3. Revised for Clarity

Civil DRAWINGS:

1. Please see attached revised drawing sheet D3. This drawing includes a change to the oil/water separator.

Mech. DRAWINGS:

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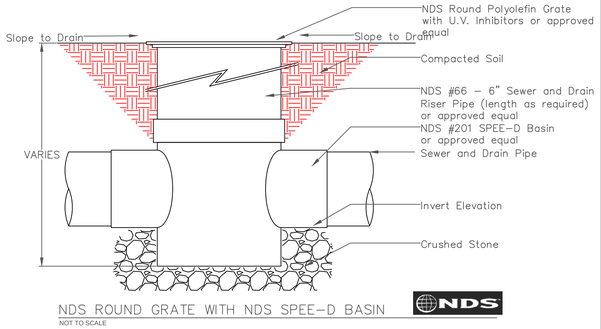
1. Please refer to the Radiant Floor System table on sheet R1.1 and the included revised sheet R1.1

2. Pump 1 to change to: Taco "00" Series 009-IFC Stainless Steel variable speed accepting a 0-10V analog signal.

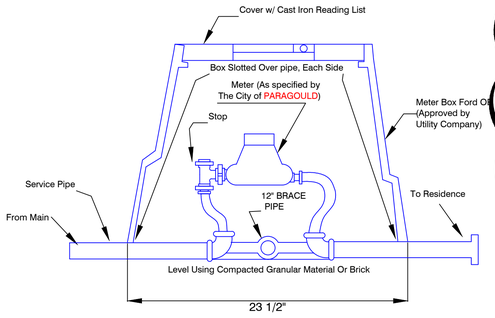
3. Delete the Aube/Honeywell thermostat. Replace with Tekmar House Control 402 and Tekmar thermostat with tekmarNet 2. Variable speed pump 1 is to be controlled by the 402 to maintain loop temperature by a "mix sensor" installed in a thermowell just downstream of the plate heat exchanger. The House Control 402 will have a mix temperature sensor and an outside temperature sensor. The thermostat shall have a room temperature sensor and a slab temperature sensor. Provide the required transformers, conduits and wiring for a complete installation. As in Note 2, it is still acceptable to submit an alternate system.

The secondary fluid shall be a 50% Glycol mix.

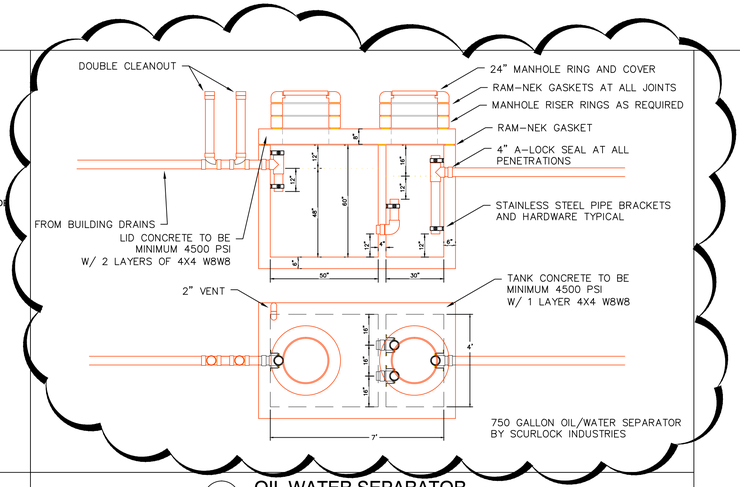
End of Addendum 2



16 TYPICAL YARD INLET (OR APPROVED EQUAL)
N.T.S.



17 TYPICAL METER DETAIL
N.T.S.



18 OIL WATER SEPARATOR
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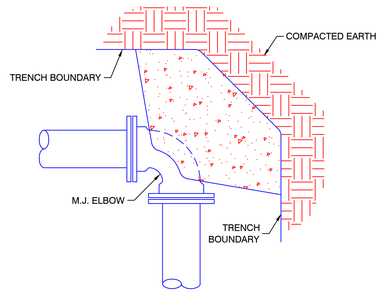

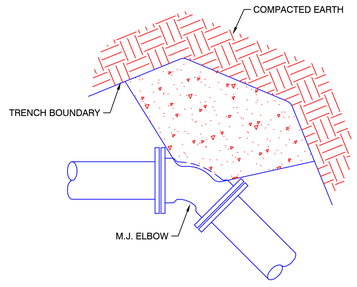

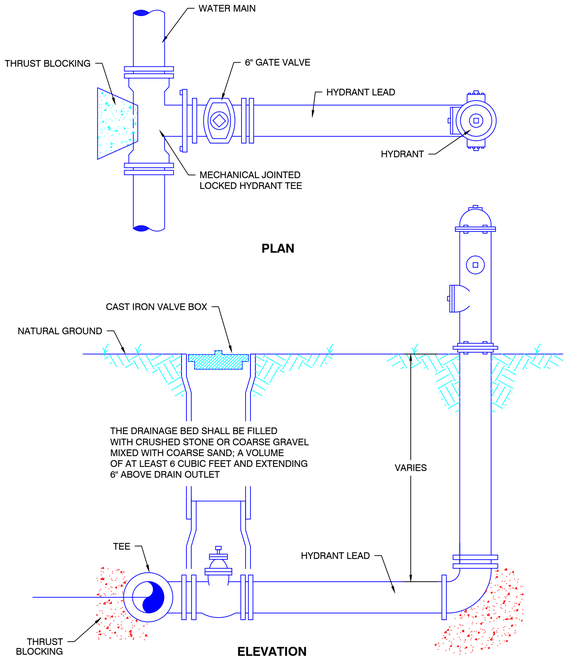

19 TYPICAL FIRE HYDRANT DETAIL
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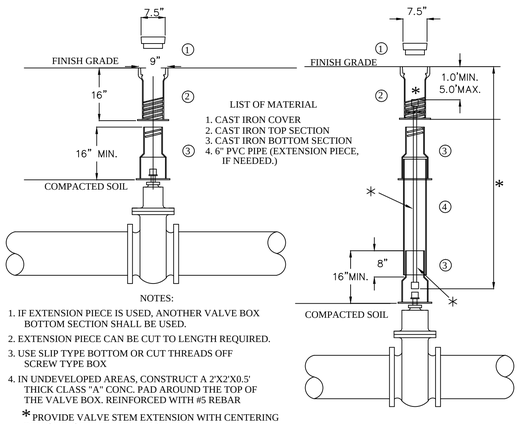
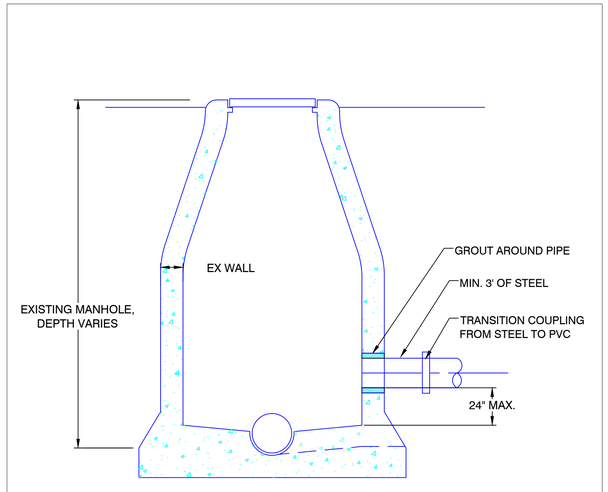


NOTES:
1. IF EXTENSION PIECE IS USED, ANOTHER VALVE BOX BOTTOM SECTION SHALL BE USED.
2. EXTENSION PIECE CAN BE CUT TO LENGTH REQUIRED.
3. USE SLIP TYPE BOTTOM OR CUT THREADS OFF SCREW TYPE BOX
4. IN UNDEVELOPED AREAS, CONSTRUCT A 2'X2'X0.5' THICK CLASS "A" CONC. PAD AROUND THE TOP OF THE VALVE BOX. REINFORCED WITH #5 REBAR

* PROVIDE VALVE STEM EXTENSION WITH CENTERING DEVICE IF GREATER THAN 5.0' DEEP.

20 GATE VALVE DETAIL
N.T.S.



21 CONNECTION TO EXISTING MANHOLE
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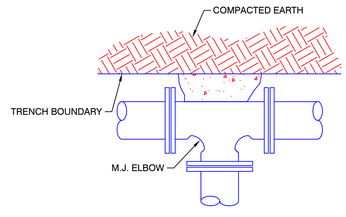
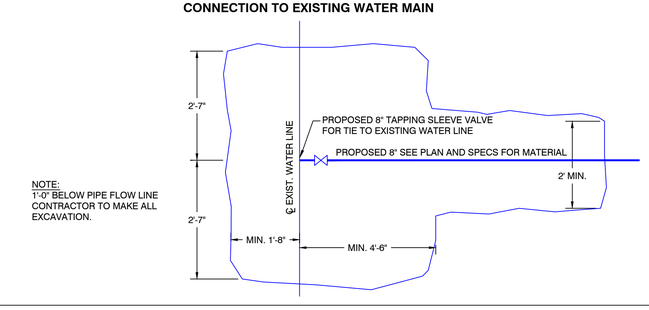


BEARING AREA OF BLOCK IN SQ. FT.

FITTING SIZES	TEE AND END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6"	3.6	5.4	2.5	1.5	0.8
8"	6.3	8.9	4.8	2.5	1.3
10"	9.9	13.9	7.6	3.9	2.0
12"	14.2	20.0	10.9	5.6	2.8

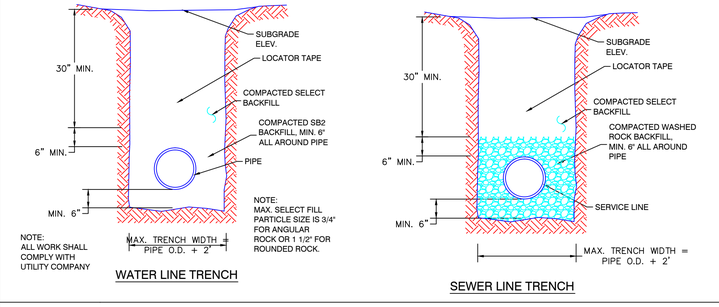
22 THRUST BLOCKING
N.T.S.



NOTE:
1'-0" BELOW PIPE FLOW LINE CONTRACTOR TO MAKE ALL EXCAVATION.

23 WATER CONNECTION TO EXISTING MAIN
N.T.S.

INTENTIONALLY LEFT BLANK



24 UTILITY TRENCHES
N.T.S.

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12940
SHAWKAT M. ALI
05-03-19

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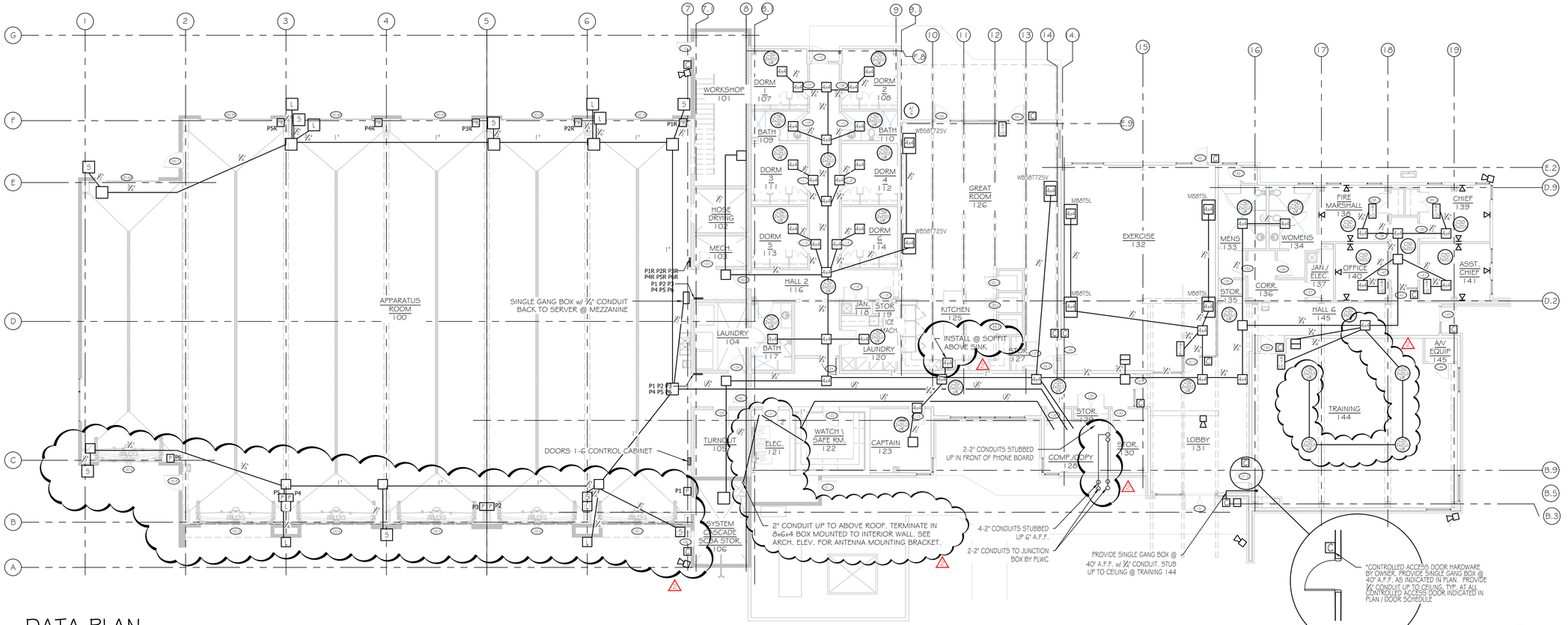
CITY OF PARAGOULD
GREENE COUNTY ARKANSAS

FIRE STATION NO. 1

CONSTRUCTION DETAILS

DATE	REVISION
05-03-19	CONSTRUCTION PLAN

SURVEY BY: BPH
DESIGN BY: SA
DRAWN BY: HB
CHECKED BY: SA
DATE: MAR. 19, 2019
JOB NO: 150302CPARA
FILENAME:
SHEET: D3



DATA PLAN

THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF PARAGOULD IT CONTRACTOR & STATION ALERTING CONTRACTOR TO INSTALL ALL BOXES & CONDUIT AS SHOWN.

2

SCALE: 3/32" = 1'-0"

CONTRACTOR NOTE:
COORDINATE WITH THE STATION ALERTING SYSTEM SUBCONTRACTOR TO LOCATE ALL BOXES

2

SYMBOLS

SYMBOL	DESCRIPTION
132.1	DOOR TAG
C	PROVIDE SINGLE GANG BOX @ 40" A.F.F. w/ ¾" CONDUIT (SEE INSET DETAIL ABOVE)
	PROVIDE SINGLE GANG BOX @ 14" A.F.F. w/ ¾" CONDUIT STUBBED UP TO CEILING
P1R	PROVIDE SINGLE GANG BOX @ 40" A.F.F. w/ ¾" CONDUIT BACK TO SERVER ROOM ABOVE
P1	PROVIDE SINGLE GANG BOX @ 40" A.F.F. w/ ¾" CONDUIT BACK TO SERVER ROOM ABOVE
4x4	PROVIDE 4"x4" BOX IN WALL w/ ¾" CONDUIT STUBBED UP TO CEILING
P	DOORS 1-6 PUSH BUTTON STATION. PROVIDE ¾" CONDUIT FROM EACH DOOR BACK TO CONTROL CABINET & FROM CONTROL CABINET TO EACH STATION
PR	DOORS 1R-6R PUSH BUTTON STATION. PROVIDE ¾" CONDUIT FROM EACH STATION AT EACH DOOR TO SECOND STATION
	PROVIDE SINGLE GANG BOX w/ ¾" CONDUIT FOR (6) SECURITY CAMERAS
4x4	PROVIDE 4"x4" BOX IN CEILING
L	PROVIDE SINGLE GANG BOX MOUNTED SIDEWAYS, SQUARE, & PLUMB @ 8'-0" A.F.F. w/ ½" CONDUIT BACK TO SERVER ROOM CEILING
S	PROVIDE SINGLE GANG BOX MOUNTED SQUARE, & PLUMB @ 10'-0" A.F.F. w/ ½" CONDUIT BACK TO SERVER ROOM CEILING

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

REGISTERED ARCHITECT
GERALD AVERY
McGehee Number 4544
STATE OF ARKANSAS
5/6/2019

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CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY ARKANSAS

DATA PLAN

DATE	REVISION
05/30/19	2 ADDENDUM 2

SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE: MAY 06, 2019
JOB NO: 150302CPARA
FILENAME:
SHEET: E4.1

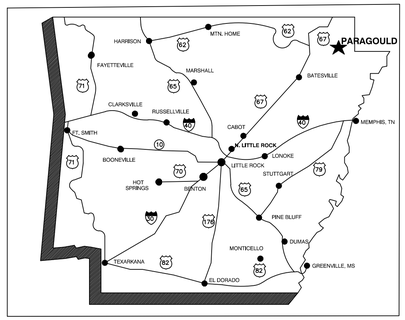
CITY OF PARAGOULD

FIRE STATION NO. 1

PARAGOULD, ARKANSAS

GREENE COUNTY

MAY 2019



STATE MAP

LOCATION MAP

MAYOR - MIKE GASKILL

FIRE CHIEF

KEVIN LANG

CITY COUNCIL

CHARLES LONG
JOSH AGEE
SUSAN WILLIAMS
MARK ROWLAND
RANDY ADEN
JEREMY BIGGS
FARRELL GIBSON
JACQUELINE BRANCH

Index

Sheet Discipline	SHT NO	SHEET NAME
GENERAL		
GENERAL	X-1	X1-COVER, LOCATION MAPS, & INDEX
CIVIL		
CIVIL	C1	EXISTING CONDITIONS/TOPO
CIVIL	C2	SITE & UTILITY PLAN
CIVIL	C3	GRADING, DRAINAGE, & EROSION CONTROL PLAN
CIVIL	D1	CONSTRUCTION DETAILS
CIVIL	D2	CONSTRUCTION DETAILS
CIVIL	D3	CONSTRUCTION DETAILS
CIVIL	D4	CONCRETE JOINT LAYOUT & DETAILS
STRUCTURAL		
STRUCTURAL	S1.0	STRUCTURAL NOTES
STRUCTURAL	S1.1	FOUNDATION PLAN
STRUCTURAL	S1.2	FOUNDATION PLAN II
STRUCTURAL	S1.3	FOUNDATION DETAILS
STRUCTURAL	S1.4	ROOF FRAMING PLAN - SOUTH
STRUCTURAL	S1.5	ROOF FRAMING PLAN - NORTH
ARCHITECTURAL		
ARCHITECTURAL	A0.0	KEY NOTES
ARCHITECTURAL	A0.1	KEY NOTES
ARCHITECTURAL	A1.0	OVERALL KEY FLOOR PLAN
ARCHITECTURAL	A1.01	APPARATUS ROOM FLOOR PLAN
ARCHITECTURAL	A1.1	REFLECTED CEILING PLAN
ARCHITECTURAL	A1.02	ADMINISTRATION FLOOR PLAN
ARCHITECTURAL	A1.2	ROOF PLAN
ARCHITECTURAL	A1.03	MEZZANINE LEVEL FLOOR PLAN
ARCHITECTURAL	A2.0	OVERALL EXTERIOR ELEVATIONS
ARCHITECTURAL	A2.1	EXTERIOR ELEVATIONS
ARCHITECTURAL	A2.2	EXTERIOR ELEVATIONS
ARCHITECTURAL	A2.3	EXTERIOR ELEVATIONS
ARCHITECTURAL	A3.1	APPARATUS ROOM BUILDING SECTIONS
ARCHITECTURAL	A3.2	APPARATUS ROOM BUILDING SECTIONS
ARCHITECTURAL	A3.3	ADMINISTRATION BUILDING SECTIONS
ARCHITECTURAL	A3.4	ADMINISTRATION BUILDING SECTIONS
ARCHITECTURAL	A3.5	ADMINISTRATION BUILDING SECTIONS
ARCHITECTURAL	A4.1	WINDOW TYPES
2 ARCHITECTURAL	A4.1.1	INTERIOR WINDOW TYPES
ARCHITECTURAL	A4.2	MILLWORK
ARCHITECTURAL	A4.3	ENLARGED TOILET PLANS
ARCHITECTURAL	A4.4	INTERIOR ELEVATIONS
ARCHITECTURAL	A4.5	INTERIOR ELEVATIONS
ARCHITECTURAL	A5.1	DOOR DETAILS
ARCHITECTURAL	A5.2	APPARATUS ROOM WALL DETAILS
ARCHITECTURAL	A5.3	APPARATUS ROOM WALL DETAILS
ARCHITECTURAL	A5.4	APPARATUS ROOM WALL DETAILS
ARCHITECTURAL	A5.5	APPARATUS ROOM WALL DETAILS
ARCHITECTURAL	A5.6	APPARATUS ROOM WALL DETAILS
ARCHITECTURAL	A5.7	ADMINISTRATION WALL DETAILS
ARCHITECTURAL	A5.8	ADMINISTRATION WALL DETAILS
ARCHITECTURAL	A5.9	ADMINISTRATION WALL DETAILS
ARCHITECTURAL	A5.10	ADMINISTRATION WALL DETAILS
ARCHITECTURAL	A5.11	ADMINISTRATION WALL DETAILS
ARCHITECTURAL	A5.12	DETAILS
ARCHITECTURAL	A5.13	DETAILS
ARCHITECTURAL	A5.14	DETAILS
ARCHITECTURAL	A6.0	DOOR TYPES & SCHEDULE
2 ARCHITECTURAL	A6.1	DOOR DETAILS
2 ARCHITECTURAL	A6.2	FINISH SCHEDULE
PLUMBING		
PLUMBING	P-1.1	PLUMBING PLAN - AREA A
PLUMBING	P-1.2	PLUMBING PLAN - AREA B
PLUMBING	P-1.3	PLUMBING RISERS
PLUMBING	P-1.4	PLUMBING SCHEDULES
PLUMBING	R-1.1	RADIANT FLOOR PLAN - AREA A
MECHANICAL		
MECHANICAL	M-1.1	HVAC PLAN - AREA A
MECHANICAL	M-1.2	HVAC PLAN REFRIGERATION - AREA B
MECHANICAL	M-1.3	HVAC PLAN AIR - AREA B
MECHANICAL	M-1.4	HVAC SCHEDULES
ELECTRICAL		
ELECTRICAL	E0.1	E0.1-ONE-LINE DIAGRAM, NOTES, SYMBOLS, PANEL SCHEDULE
ELECTRICAL	E1.1	E1.1-APPARATUS ROOM ELECTRICAL PLAN
ELECTRICAL	E1.2	E1.2-MEZZANINE LEVEL ELECTRICAL PLAN
ELECTRICAL	E1.3	E1.3-ADMINISTRATION ELECTRICAL PLAN
ELECTRICAL	E2.1	E2.1-APPARATUS ROOM LIGHTING PLAN
ELECTRICAL	E2.2	E2.2-MEZZANINE LEVEL ELECTRICAL PLAN
ELECTRICAL	E2.3	E2.3-ADMINISTRATION LIGHTING PLAN
ELECTRICAL	E3.1	E3.1-PANEL SCHEDULES
ELECTRICAL	E4.1	E4.1-DATA PLAN

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DESIGN & ENVIRONMENTAL CONSULTANTS, CONSTRUCTION MANAGERS & GENERAL CONTRACTORS

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2 ADDENDUM 2 - 05/30/19

GENERAL NOTES

A. DESIGN PARAMETERS

1. BUILDING CODE: 2012 Arkansas Fire Prevention Code Based on the 2012 IBC, IRC & IFC

2. WHEN LOADING :
BASIC WIND SPEED 120 MPH (BASED ON ALLOWABLE STRESS DESIGN)

3. GROUND SNOW LOAD = 10 PSF

3. SEISMIC LOADING:
S(DS) = 0.88g
S(D1) = 0.48g
SEISMIC RESISTING SYSTEM : ORDINARY MOMENT FRAMES OF STEEL
R = 6 12
Cd = 6
SEISMIC ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

B. FOUNDATION

1. FOUNDATION DESIGN IS BASED UPON A PRESUMED BEARING VALUE OF 1500 PSF AND NO EXPANSIVE SOILS PRESENT AT THE SITE. GEOTECHNICAL REPORT PROVIDED BY MTA ENGINEERS IN LITTLE ROCK, AR.

2. BEARING MATERIAL AND BEARING VALUE OF THE FOUNDATION SOILS SHALL BE FIELD VERIFIED AFTER EXCAVATION AND PRIOR TO PLACEMENT OF CONCRETE. VERIFICATION SHALL BE MADE BY A CERTIFIED SOILSMATERIALS TESTING LABORATORY, APPROVE BEARING MATERIAL BEFORE FOUNDATION INSTALLATIONS.

3. SOME UNDERCUTTING MAY BE REQUIRED DEPENDING ON TIME OF YEAR (GROUND MEASURE). COORDINATE CLEARING AND DIRT WORK WITH MTA ENGINEERING.

4. BACKFILLING:

- DO NOT PLACE BACKFILL AGAINST CONCRETE WALLS AND GRADE BEAMS UNTIL BRACING FLOORS ARE IN PLACE OR ADEQUATE TEMPORARY BRACING HAS BEEN INSTALLED.
- BACKFILL IN EVEN LIFTS ALTERNATING FROM SIDE TO SIDE (8" MAX LOOSE LIFTS)
- ALL FILL MATERIAL SHALL BE NONEXPANSIVE AND MINIMUM PLASTICITY
- FILL SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY PER ASTM 1557.
- COMPACTION SHALL BE ACHIEVED WITHIN -3% TO +5% OF THE OPTIMUM WATER CONTENT.

C. CONCRETE AND REINFORCING

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF ALL CONCRETE (EXCEPT FOUNDATION WALLS AND PEDESTALS) AT 28 DAYS SHALL BE 3,000 PSI WITH A WEIGHT OF 145 PCF. FOUNDATION WALLS AND PEDESTALS SHALL BE 3000 PSI AT 28 DAYS WITH A WEIGHT OF 145 PCF.

2. REINFORCING :

- BARS: ASTM A615 – GRADE 60, EXCEPT USE GRADE 40 FOR BARS NOTED (IF NOTED), AS FIELD BENT.
- SHEET MESH: ASTM A185

3. CLEARANCE BETWEEN REINFORCING AND CONCRETE SUFACES WHICH ARE:
CAST AGAINST EARTH OR ROCK.....3"
FORMED AND EXPOSED TO WEATHER OR EARTH.....2"
FORMED BUT NOT EXPOSEDTO WEATHER OR EARTH:
- COLUMNS, BEAMS, GIRDERS.....1-1/2"
- WALLS, SLABS.....3/4"

4. MAXIMUM WATER/CEMENT RATIO = 0.45 AND MAXIMUM SLUMP OF 4"

5. CONTROL JOINTS (C.J.) SHALL BE SAW CUT ONE THIRD OF THE SLAB DEPTH WITHIN 8 HOURS OF CONCRETE POUR.

6. SLAB SHALL BE REINFORCED W.6x6 – W2.1xW2.1 SHEET MESH ONLY. SHEET MESH SHALL BE SUPPORTED WITH PLASTIC HIGH CHAIRS @ 3'-0 O.C., MAX

7. UNLESS NOTED, PROVIDE CONTINOUS REINFORCING AROUND CORNERS AND THROUGH CONSTRUCTION JOINTS, CONTROL JOINTS, CONTRACTION JOINTS AND BETWEEN ALL ABUTTING MEMBERS, AT JOINTS CUT EVERY OTHER REINFORCEMENT BAR PERPENDICULAR TO JOINT ADJACENT TO JOINT (TYPICAL EACH SIDE OF JOINT.

8. UNLESS SHOWN OR OTHERWISE NOTED , PROVIDE STANDARD HOOKS ON END OF ALL BARS EXCEPT THOSE LAPPED OR SPLICED TO A CONTINUING BAR.

9. WHERE REINFORCING IS NOT INDICATED OR DEFINED, INCLUDE FOR BID PURPOSES:

- WALLS: #5 EACH WAY EACH FACE. SPACING IN INCHES = 140/(WALL THICKNESS IN INCHES) BUT NOT OVER 18" O.C.

- BEAMS: 1-#9 CONTINUOUS, TOP AND BOTTOM FOR EACH 100 SQUARE INCHES OF BEAM CROSS SECTIONAL AREA AND #4 STIRRUP SPACED AT 1/4 OF BEAM DEPTH FULL LENGTH OF BEAM

- COLUMNS : 1-#9 VERT PER 50 SQUARE INCHES OF CROSS SECTIONAL AREA AND #3 TIES @ #9

- SLABS: #5 EACH WAY TOP AND BOTTOM, SPACING IN INCHES=100/(SLABTHICKNESS IN INCHES) BUT NOT OVER 18" O.C.

ON SHOP DRAWINGS, INDICATE ABOVE REINFORCING AS "PER GENERAL NOTES"SUCH REINFORCING MAY BE REVISED OR RELOCATED BY STRUCTURAL ENGINEER DURING SHOP DRAWING REVIEW

10. AS PART OF CONCRETE WORK PROVIDE CONCRETE EQUIPMENT PADS, HOUSE KEEPING PADS, INERTIA BASES AND CURBS AS INDICATED ON ANY OF THE CONTRACT DRAWINGS UNLESS SPECIFIED TO BE PROVIDED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. UNLESS NOTED, DOWEL TO STRUCTURE BELOW WITH #4 X 0'-6 PROJECTING 3' FROM CONCRETE BELOW AT 12" O.C. EACH WAY AND REINFORCE WITH #4 @ 12" EACH WAY, TOP AND BOTTOM.

11. CONCRETE EQUIPMENT PADS, INTERTIA BASES AND CURBS NOT SHOWN ON THE CONTRACT DOCUMENTS FOR THIS BID PACKAGE ARE THE RESPONSIBILITY OF THE TRADE WHO'S EQUIPMENT BEARS ON THEM OR ATTACHES TO THEM.

12. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL COLUMNS, BEAMS, WALLS, AND SLAB EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.

13. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FORM FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301 AS MODIFIED BY THE SPECIFICATIONS.

14. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY ANCHORS, PRECAST BEARING LEDGES, AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ETC.

15. SELECT FORMWORK TO PRODUCE THE FINISH REQUIRED. WHERE FINISH IS NOT SPECIFIED, FORMWORK FOR EXPOSED SURFACES SHALL BE ACI 347R, CLASS A, AND FORMWORK FOR OTHER SURFACES SHALL BE ACI 347R, CLASS C. A SURFACE IS CONSIDERED EXPOSED IF THE CONCRETE TEXTURE CAN BE SEEN BY ANYONE IN THE COMPLETED STRUCTURE.

16. MASONRY DOWELS: PROVIDE, PLACE, AND SPACE TO MATCH MASONRY VERTICAL REINFORCING.

D. STRUCTURAL STEEL

1. ROLLED AND BUILT UP SECTIONS:

W8's THRU W36's – A572 GRADE 50
PIPES – A53 – 35 KSI
TUBES A500 GRADE B – 46 KSI
BUILT-UP SHAPES – AS INDICATED
ALL ELSE – A36 – 36 KSI OR A572 GRADE 50

2. SPACE MEMBERS UNIFORMLY BETWEEN DIMENSIONED LOCATIONS

3. CONNECTIONS:

- WELD OR BOLT, UNLESS NOTED OTHERWISE
- DESIGN CONNECTIONS NOT ENTIRELY DETAILED ON DRAWINGS
- DETAILS SHOW THE RELATIONSHIP BETWEEN MEMBERS AND MAY GIVE LIMITATIONS OR CRITERIA TO BE USED IN DEVELOPING COMPLETE CONNECTION DESIGN AND DETAILS. USE CONNECTIONS FROM PART 4, AISC MANUAL 9TH EDITION. FOR TS AND PIPE CONNECTIONS USE CONNECTIONS FROM AISC HOLLOW STRUCTURAL SECTIONS CONNECTIONS MANUAL.
- MINIMUM THICKNESS: ANGLES 5/16", PLATES 3/8"

4. CONNECTION DESIGN FORCES:
- BEAM CONNECTIONS:
1) IF SHOWN, USE 110% OF THE REACTION OF THE DRAWINGS BUT NOT LESS THAN 10 KIPS.

2) IF NO REACTION IS SHOWN, USE 55% OF TOTAL ALLOWABLE UNIFORM LOAD CAPACITY FROM THE AISC TABLES FOR ALLOWABLE LOADS ON BEAMS BUT NOT LESS THAN 10 KIPS.

5. BOLTED CONNECTIONS:

- MINIMUM BOLT DIAMETER: 3/4" UNLESS NOTED.
- TWO BOLTS MINIMUM PER CONNECTED MEMBER.
- USE A325SC OR A490SC BOLTS FOR BRACING, MOMENT CONNECTIONS, CANTILEVERS, TENSION MEMBERS AND AT OVERSIZED OR SLOTTED HOLES WHERE THE FORCE ON THE JOINT IS PARALLEL TO THE LONG AXIS OF THE SLOT. USE A325N OR A490N ELSEWHERE.
- FOR BEAM TO COLUMN CONNECTIONS, USE SHORT OR LONG SLOTTED HOLES AND FULLY TENSIONED BOLTS, EXCEPT USE SC BOLTS AT MOMENT CONNECTIONS.
- OVERSIZED AND LONG SLOTTED HOLES PERMITTED ONLY WHERE SHOWN OR NOTED.

6. WELDED CONNECTIONS:
- ELECTRODES: 70 SERIES
- FILLET WELDS: AISC MINIMUM BUT NOT LESS THAN 3/16", UNLESS NOTED
- GROOVE WELDS: FULL PENETRATION, UNLESS NOTED OTHERWISE.
- WELDS ARE CONTINUOUS UNLESS NOTED OTHERWISE.

L. LIGHT GAUGE METAL STUDS:

1. ALL LIGHT GAUGE METAL, NON-LOAD BEARING EXTERIOR STUDS SHALL BE 18 GAUGE MINIMUM. NON-BEARING INTERIOR STUDS SHALL BE 22 GAUGE MINIMUM. ALL LIGHT GAUGE METAL TO BE GALVANIZED. ALL EXTERIOR STUDS SHALL BE 6", 18GA, CEE STUDS WITH 1-5/8" FLANGE, Fy = 33ksi.
2. ALL WINDOW AND DOOR OPENINGS IN EXTERIOR WALLS ARE TO HAVE DOUBLE JOIST HEADERS WITH DOUBLE STUDS EACH END FOR BEARING. IN ADDITION, PROVIDE FULL HEIGHT STUDS EACH SIDE OF OPENING EQUAL IN NUMBER TO ONE-HALF THE NUMBER OF STUDS INTERRUPTED BY THE WALL OPENING, ROUND UP IF CALCULATED NUMBER IS ODD WITH 2 MINIMUM. PLACE BEARING AND FULL HEIGHT STUDS FACE TO FACE AND WELD TOGETHER WITH 1-1/2" LONG FLARE VGROOVE WELDS AT 12" O.C., MAX EACH SIDE.

M. MISCELLANEOUS

1. PRIOR TO STARTING SHOPE DRAWINGS, ORDERING MATERIAL AND PRIOR TO FABRICATION:
a. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS.
b. ARCHITECTURAL DIMENSIONS GOVERN.

2. USE STRUCTURAL DRAWINGS WITH OTHER CONTRACT DOCUMENTS AND COMBINE REQUIREMENTS INTO SHOP DRAWINGS AND WORK.

3. TYPICAL DETAILS ARE APPLICABLE TO ALL OCCURENCES OF THE CONDITION DEPICTED IN THE DETAIL UNLESS ANOTHER DETAIL IS PREFERENCED.

4. RESOLVE APPARENT DEFICIENCIENCIES, OMISSIONS, CONTRADICTIONS, AND AMBIGUITIES IN CONTRACT DOCUMENTS WITH ARCHITECT/ENGINEER BEFORE AFFECTED WORK PROCEEDS. FOR BID PURPOSES USE THE INTERPRETATIONS RESULTING IN THE GREATEST COST.

5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION OF CONSTRUCTION OF THE ENTIRE PROJECT AND THEN ONLY TO SUPPORT THE DESIGN LOADS INDICATED. CONTRACTOR IS RESPONSIBLE FOR DETERMINING LOADINGS OCCURRING DURING CONSTRUCTION, FOR COORDINATING LOADINGS WITH OTHER CONTRACTORS, AND FOR DETERMINING AND NOT EXCEEDING THE CAPACITY OF THE STRUCTURE AT ANY TIME PRIOR TO COMPLETION OF THE ENTIRE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROCEDURES, MEANS, AND METHODS AND SEQUENCES OF CONSTRUCTION. DESIGN AND PROVIDE ALL TEMPORARY BRACING, SHORING, AND/OR SUPPORT.

6. NO MODIFICATION, ALTERATION, CORRECTION, OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW AND ACCEPTANCE OF STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTOR. A-E REVIEW IS CONTRACTOR'S EXPENSE.

N. OPENINGS:

1. OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE SUBJECT TO APPROVAL STRUCTURAL ENGINEER.

2. PERMITTED OPENINGS SHALL BE FORMED. TRADE CONTRACTORS SHALL NOT RELY ON CORE DRILLING OR CUTTING OF OPENINGS.

P. EMBEDDED ITEMS:

1. DO NOT EMBED PIPES, TUBES, WIRES, CONDUIT, DUCTS, OR CAVITY CREATING NON-STRUCTURAL ITEMS IN CONCRETE.

Q. ANCHORING:

1. ANCHORS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE PROVIDED BY THE TRADE CONTRACTOR ATTACHING TO THE ANCHOR.

2. DETERMINING THE INSTALLED CAPACITY OF ANCHORS WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS IS THE RESPONSIBILITY OF THE TRADE CONTRACTOR ATTACHING TO THE ANCHOR.

3. LOCATING AND MISSING EMBED ITEMS IN CONCRETE IS THE RESPONSIBILITY OF THE TRADE CONTRACTOR ATTACHING TO THE ANCHOR.

R. SUPPORT AND BRACING OF WORK NOT SHOWN ON STRUCTURAL DRAWINGS:

1. SUPPORTS, BRACING, SUB-FRAMING, LIGHT GAGE FRAMING, MISCELLANEOUS STEEL, BRACKETS, CONNECTORS, AND ATTACHMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE TRADE CONTRACTOR WITH ITEMS BEING SUPPORTED OR BRACED AT THE TRADE CONTRACTOR'S EXPENSE.

2. IF STRUCTURAL DRAWINGS REFERENCED BY OTHER DRAWINGS FOR ITEMS NOT FULLY DEFINED ON STRUCTURAL DRAWINGS (AND ASSOCIATED SPECIFICATIONS) THEN ENGINEER AND PROVIDE SUCH ITEMS ON A PERFORMANCE BASIS IN COMPLIANCE WITH THE GOVERNING BUILDING CODE. ALL COSTS SHALL BE BORN BY THE TRADE CONTRACTOR ATTACHING TO OR BEARING UPON SUCH ITEMS.

3. SUPPORT AND BRACING SYSTEMS SHALL NOT TRANSMIT LATERAL LOADS TO COLUMNS BETWEEN FLOORS OR TO THE BOTTOMS OR SIDES OF STEEL BEAMS OR JOISTS. IF OTHER CONTRACT DRAWINGS INDICATE BRACING OR ATTACHMENT DETAILS WHICH WOULD RESULT IN LATERAL LOADS BEING TRANSMITTED TO THE SIDE OF COLUMNS BETWEEN FLOORS OR TO THE BOTTOMS OR SIDES OF BEAMS OR JOISTS THEN THE TRADE CONTRACTOR RESPONSIBLE FOR THE ITEMS TRANSMITTING SUCH LATERAL LOADS INCLUDE THE COST IN HIS BID FOR ENGINEERING AND PROVIDING BRACING TO THE TOP OF FLANGE OF THE NEXT ADJACENT BEAM OR JOIST.

FACADE AND WALL SYSTEMS ATTACHMENTS TO THE STRUCTURE:

- SHALL NOT ASSUME THE STRUCTURE PROVIDES MOMENT RESISTANCE AT THE POINT OF ATTACHMENT.
- SHALL BE TO THE EDGE OF THE FLOOR SLAB OR ROOF DECK ONLY UNLESS NOTED ONT THE STRUCTURAL DRAWINGS.
- SHALL NOT RESTRICT INDEPENDENT VERTICAL OR LATERAL MOVEMENT OF THE BUILDING LEVELS.

S. ALL WORK MUST BE DONE IN COMPLIANCE WITH O.S.H.A. REGULATIONS, SCAFFOLDING, AND SUPPORT. DESIGN IS THE RESPONSIBILITY OF EACH AND EVERY CONSTRUCTION SUB-CONTRACTOR ON THIS PROJECT.

T. STRUCTURAL WOOD NOTES:

1. FLOOR FRAMING:
PREPARATION FOR THE APPLICATION OF FLOOR DECKING SHALL BEGIN WITH A TRUE AND PLUMB STRUCTURAL FRAMING SYSTEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BRACING TO INSURE A TRUE AND PLUMB, UNIFORMLY SPACED AND SAFE FLOOR FRAMING SYSTEM. BEFORE APPLICATION OF DECKING IS BEGUN, INSTALL 2x BLOCKING BETWEEN PRE-ENGINEERED FLOOR TRUSSES AS REQUIRED TO SUPPORT PANEL EDGES AT FLOOR OPENINGS.

2. ROOF SHEATHING:
ROOF SHEATHING SHALL BE 3/4" THICK APA RATED SHEATHING EXPOSURE 1 ALL PANELS SHALL BE STAMPED WITH THE APA RATING MARK. PANELS MAY BE PLYWOOD VENEER CONSTRUCTION. PANELS SHALL BE PLACED WITH THE LONG DIMENSION PERPENDICULAR TO THE PANEL SUPPORTS. PANELS ARE ASSUMEDTO BE CONTINUOUS OVER TWO OR MORE SUPPORTS. PANELS SHALL BE PLACED IN A MANNER TO STAGGER ALL END JOINTS FROM ADJACENT PANELS. LEAVE MINIMUM OPEN SPACE AT ALL PANEL EDGES AND END JOINTS AS RECOMMENDED BY SHEATHING SUPPLIER TO ALLOW FOR EXPANSION.

3. FASTENING:
FASTENING REQUIREMENTS FOR ALL SHEATHING TO SUPPORTS SHALL BE IN CONFORMANCE WITH THE AMERICAN PLYWOOD ASSOCIATION'S (APA) TABLE FOR RECOMMENDED MINIMUM FASTENING SCHEDULE FOR APA PANEL ROOF AND WALL SHEATHING UNLESS NOTED OTHERWISE ON PLANS, ALL 3/4" FLOOR SHEATHING SHALL BE FASTENED (AND GLUED)TO SUPPORTS WITH SIMPSON STRONG-TIE N8 NAILS (OR APPROVED EQUAL) OR #10 (1-1/2" LONG) WOOD SCREWS SPACED AT 6" O.C. ALONG ALL PANEL EDGES AND AT 12" O.C. ALONG INTERMEDIATE SUPPORTS. ADDITIONALLY, WALL AND ROOF SHEATHING SHALL BE FASTENED SUPPORTS IN ACCORDANCE WITH CHAPTER 23 OF THE INTERNATIONAL BUILDING CODE.

4. A. STUDS: STRUCTURAL LUMBER: DOUGLAS FIR-LARCH #2, OR APPROVED EQUAL :

SIZE	F_b	F_t	F_c	$F_{c\perp}$	F_v	E
2x4	1500	825	90	565	1650	1,600,000
2x6	1250	725	90	565	1600	1,600,000
2x8	1200	650	90	565	1550	1,600,000
2x10	1050	600	90	565	1500	1,600,000
2x12	975	550	90	565	1450	1,600,000

B. ROOF/WALL/FLOOR: PLYWOOD: C-CP,LUGGED, STRUCTURAL 1, EXPOSURE 1. EXTERIOR GLUE FOR ROOF AND WALL PANEL IDENTIFICATION INDEX 24/16-5/8 INCH (ROOF) OR 24/0-1/2 INCH (WALL).

C. SILL PLATES: NO. 2 SPRUCE-PINE-FIR, OR EQUAL FC=675 PSI, FV=70 PSI, E=1,200,000 PSI

U. METAL BUILDING NOTES:

1. ALL METAL BUILDING ELEMENTS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER TO MEET ALL REQUIREMENTS OF THE 2012.

INTERNATIONAL BUILDING CODE (WITH PRECEDENCE) INCLUDING LIVE LOAD, WIND LOAD, AND SEISMIC LOAD AS WELL AD DEAD LOAD. ALL OF THE MASS CONNECTED TO THE BUILDING SHALL BE ACCOUNTED FOR IN THE SEISMIC LOADS INCLUDING BUT NOT LIMITED TO SUSPENDED SLAB SYSTEMS, BRICK AND BLOCK VENEER, ALL INTERIOR PARTITIONS, ETC. IT WILL NOT BE ACCEPTABLE TO CALCULATE THE SEISMIC SHEAR BASED ON THE METAL BUILDING COMPONENTS WEIGHT ONLY. CLEAR, CONICISE DESIGN CALCULATIONS (STAMPED BY AN ENGINEER LICENSED IN THE STATE OF ARKANSAS) FOR THE SEISMIC AND WIND LOADS WILL BE REQUIRED.

2. ALL METAL BUILDING ELEMENTS SHALL BE DESIGNED FOR THE CODE REQUIRED LOADINGS PLUS THE ACTUAL DEAD WEIGHT OF THE CONSTRUCTION MATERIALS INCLUDING, BUT NOT LIMITED TO, SUSPENDED SLAB SYSTEMS, BRICK AND BLOCK VENEER IN ANY AREAS DETAILED ON THE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS (MINIMUM COLLATERAL LOAD SHALL BE 7 PSF)

3. AT ALL LOCATIONS WHERE METAL BUILDING WALL GIRTS PROVIDE LATERAL STABILITY FOR BRICK VENEER AND/POR MASONRY BLOCK WALLS (INTERIOR AND EXTERIOR), THE WALL GIRTS MUST BE SPACED SO THAT ALL REQUIREMENTS OF THE APPLICABLE BUILDING CODES (LATEST EDITION) CAN BE MET CONCERNING THE MAXIMUM SPACING OF MASONRY TIES.

4. METAL BUILDING COLUMNS SHALL BE DESIGNED TO SUPPORT BOTH DEAD AND LIVE LOADS FROM FLOOR FRAMING AND HORIZONTAL FORCES GENERATED BY THE SECOND FLOOR (IF PRESENT).

5. THE METAL BUILDING SUPPLIER SHALL PROVIDE EXACT MEMBER SIZES, PROFILES, AND DIMENSIONS TO THE STRUCTURAL STEEL CONTRACTOR TO ALLOW THE STRUCTURAL STEEL FRAMING MEMBERS AND CONNECTIONS TO BE DETAILED FOR ATTACHMENT TO THE METAL BUILDING FRAMING. THE GENERAL CONTRACTOR IS REPONSIBLE FOR TRANSMITTING THE REQUIRED DATA TO THE STRUCTURAL STEEL CONTRACTOR BEFORE SHOP DRAWING ARE SUBMITTED FOR APPROVAL. THE METAL BUILDING SUPPLIER SHALL COORDINATE WITH STRUCTURAL STEEL FABRICATORE/DETAILER FOR LOCATIONS OF HOLES IN METAL BUILDING COLUMNS OR CLIP ANGLES ATTACHED TO METAL BUILDING COLUMNS FOR ATTACHMENT OF FLOOR FRAMING BEAMS AND JOIST.

6. THE METAL BUILDING DESIGN ENGINEER SHALL CHCK ALL METAL BUILDING ELEMENTS FOR LOAD APPLIED BY FLOOR FRAMING, TOPS OF EXTERIOR WALLS, AND ETC. THIS WILL INCLUDE CHECKING FOR LOACL BENDING AND BUCKLING. ALL METAL BUILDING FLANGES OR WEBS THAT ARE TO RECEIVE SHALL BE STIFFENED AS REQUIRED TO PREVENT LOCAL BUCKLING OR OVERSTRESS. THE STRUCTURE SHALL BE CALCULATIONS FOR SPECIAL CONNECTIONS (INCLUDING BUT NOT LIMITED TO: X=BRACING CONNECTIONS AND METAL BUILDING COLUMNS WITH HORIZONTAL CONCENTRATED FORCES (INCLUDING WHETHER OR NOT BEAM STIFFENERS ARE NEEDED)) SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWINGS AND OTHER DESIGN CALCULATIONS. IN ADDITION TO THE CODE LOAD REQUIREMENTS, ALL STRUCTURAL ELEMENTS HALL MEET THE FOLLOWING MAXIMUM DEFLECTION LIMITATIONS.

ROOF MAXIMUM TOTAL VERTICAL LOAD DEFLECTIONS – L/300

ROOF MAXIMUM LIVE LOAD DEFLECTION – L/360

WALL MAXIMUM LATERAL RIGID FRAME DEFLECTION – H/250

WHERE L = ROOF BEAM SPAN
H = HEIGHT FROM BOTTOM OF METAL BASEPLATE TO EAVE
Cd = DEFLECTION AMPLIFICATION FACTOR FROM SBC LATEST EDITION

7. THE METAL BUILDING SHALL BE DESIGNED FOR A MINIMUM OF 20 PSF LIVE LOAD WITH ALLOWABLE LIVE LOAD REDUCTIONS AT THE FRAMES PERMITTED TO A MINIMUM OF 14 PSF.

8. THE METAL BUILDING SUPPLIER SHALL DESIGN THE WIND GIRTS THAT ARE ATTACHED TO MASONRY BRICK/BLOCK TO LIMIT THE DEFLECTION TO L/240 OR LESS WITH WIND PRESSURE WITH 50 YEAR RECURRENCE INTERVAL.

9. THE METAL BUILDING SUPPLIER SHALL SUBMIT TO THE ARCHITECT THROUGH THE GENERAL CONTRACTOR COMPLETE DESIGN CALCULATIONS AND DETAILED SHOP DRAWINGS INCLUDING BEFORE FRABRICATION OF ANY METAL BUILDING ELEMENT OR FOUNDATION CONSTRUCTION IS BEGUN. THE METAL BUILDING CALCULATION AND SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ARKANSAS. A LETTER OF COMPLIANCE TO ALL APPLICABLE CODES FOR SEISMIC DESIGN SHALL ALSO BE STAMPED AND SIGNED BY THE METAL BUILDING SUPPLIER'S ENGINEER AND SUBMITTED TO THE ARCHITECT TO CERTIFY THAT THE INDIVIDUAL METAL BUILDING ELEMENTS HAVE BEEN DESIGNED FOR SEISMIC FORCES.

10. NO BASE MOMENT ALLOWED IN PORTAL FRAMES DESIGN.

11. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE STANDARD PRACTICES OF THE "AISC". FLASHING, GUTTERS, AND OTHER METALS IN ACCORDANCE WITH "SMACNA".

12. ALL WELDS SHALL BE IN ACCORDANCE WITH THE AMERICA WELDING SOCIETY.

13. FIELD AND SHOP CONNECTIONS SHALL BE HIGH STRENGTH BOLTS OR EQUIVALENT.

14. PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN ALIGNMENT AND SECURITY OF STRUCTURES DURING CONSTRUCTION.

BAR SIZE	LAP CLASS	SPLICE LENGTH (in) f'c=3,000 psi: TOP BARS (alpha = 1.3) CASE 1	TOP BARS (alpha = 1.3) CASE 2	OTHER BARS (alpha = 1.0) CASE 1	OTHER BARS (alpha = 1.0) CASE 2
#3	A	22	33	17	25
	B	28	42	22	33
#4	A	29	43	22	33
	B	38	56	29	43
#5	A	36	54	28	42
	B	47	70	36	54
#6	A	43	65	33	50
	B	56	84	43	65
#7	A	63	94	48	72
	B	81	122	63	94
#8	A	72	107	55	83
	B	93	139	72	107
#9	A	81	121	62	93
	B	105	157	81	121
#10	A	91	136	70	105
	B	118	177	91	136
#11	A	101	151	78	116
	B	131	196	101	151

BAR SIZE	LAP CLASS	SPLICE LENGTH (in) f'c=4,000 psi: TOP BARS (alpha = 1.3) CASE 1	TOP BARS (alpha = 1.3) CASE 2	OTHER BARS (alpha = 1.0) CASE 1	OTHER BARS (alpha = 1.0) CASE 2
#3	A	19	28	15	22
	B	25	37	19	28
#4	A	25	37	19	29
	B	33	49	25	37
#5	A	31	47	24	36
	B	41	61	31	47
#6	A	37	56	29	43
	B	49	73	37	56
#7	A	54	81	42	63
	B	71	106	54	81
#8	A	62	93	48	72
	B	81	121	62	93
#9	A	70	105	54	81
	B	91	136	70	105
#10	A	79	118	61	91
	B	102	153	79	118
#11	A	87	131	67	101
	B	114	170	87	131

NOT FOR CONSTRUCTION
PRICING SET ONLY

PHILLIP LEWIS ENGINEERING, INC. No. 566 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 19340 PHILLIP D. LEWIS

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS.
CONSTRUCTION MANAGERS
1510 S. Broadway, Little Rock, AR. 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

BUILDING A BETTER WORLD

CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY
ARKANSAS

STRUCTURAL NOTES

DATE	REVISION
5/30/19	Addendum 1

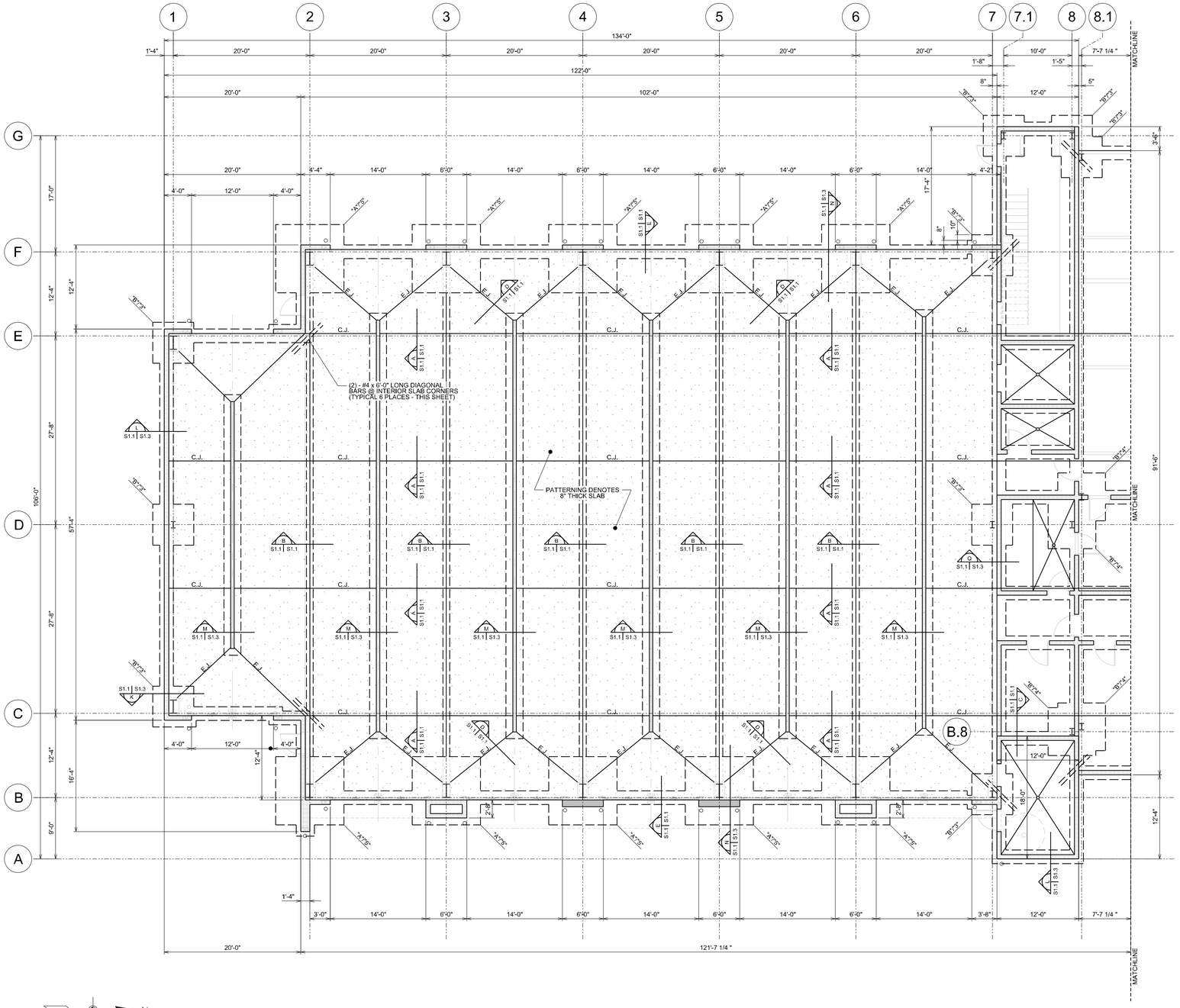
SURVEY BY:
DESIGN BY:
DRAWN BY:
CHECKED BY:

DATE
APRIL 29, 2019

JOB NO: XXXXXCPARA

FILENAME:

SHEET
S1.0



FOUNDATION PLAN

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

NOTE:
1. CONCRETE SHALL ACHIEVE 4000 PSI IN 28 DAYS.
2. MAXIMUM ALLOWABLE w/c RATIO = 0.55
3. MAXIMUM ALLOWABLE SLUMP = 5"
4. NO CHLORIDE ADDITIVES ALLOWED.
5. "C.J." INDICATES CONTROL JOINT PER DETAIL "A", SAWCUTS SHALL BE MADE WITHIN 8 HOURS OF POUR.
6. "E.J." INDICATES EXPANSION JOINT PER DETAIL "D"

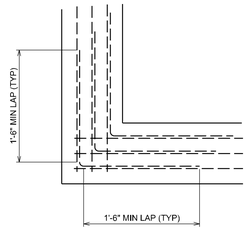
COLUMN SCHEDULE	
A	PRE-ENGINEERED MAIN FRAME COLUMN
B	PRE-ENGINEERED ENDWALL COLUMN
C	HSS 6x6x5/8" COLUMN

ALL COLUMNS TO HAVE (4 MINIMUM) - 3/4" DIA ASTM F1554 HIGH STRENGTH ALL-THREAD BOLTS x 1'-3" LONG WITH DOUBLE NUT AND WASHERS ON BOTTOM OF ANCHOR BOLTS

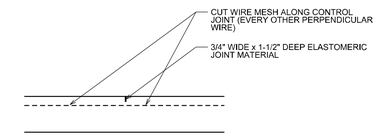
FOOTING SCHEDULE			
1	4'-0"x4'-0"x1'-6" THK	W/(5) - #5 EACH WAY	
2	5'-0"x5'-0"x1'-6" THK	W/(6) - #5 EACH WAY	
3	6'-0"x6'-0"x2'-0" THK	W/(7) - #5 EACH WAY	
4	7'-0"x7'-0"x2'-0" THK	W/(8) - #5 EACH WAY	
5	10'-0"x10'-0"x2'-0" THK	W/(11) - #5 EACH WAY	

FOOTING
COLUMN
"A"/"T"

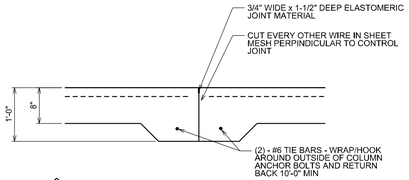
NOT FOR CONSTRUCTION
PRICING SET ONLY



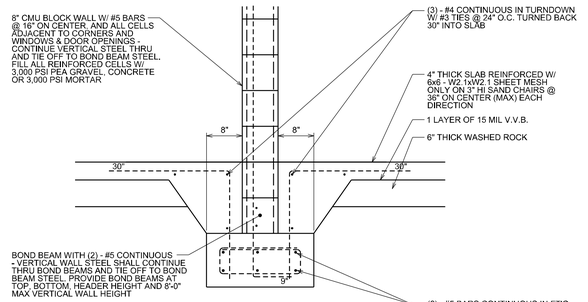
1 DETAIL — NOT TO SCALE
S1.1 | S1.1 TYPICAL DETAIL @ FOOTING CORNERS



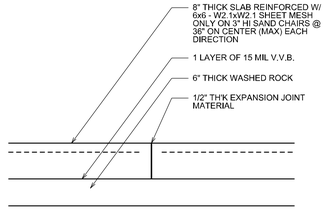
A SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.1 TYPICAL SECTION THRU CONTROL JOINT



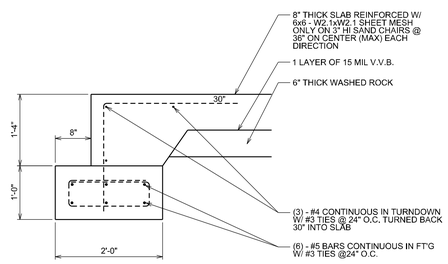
B SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.1 TYPICAL SECTION THRU CONTROL JOINT/TIE-BEAM @ THICKENED SLAB



C SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.1 SECTION THRU INTERIOR 8" BLOCK WALL



D SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.1 TYPICAL SECTION @ EXPANSION JOINT



E SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.1 TYPICAL SECTION THRU THICKENED SLAB TURNDOWN

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19340
PHILLIP E. LEWIS

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
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ARKANSAS

CITY OF PARAGOULD

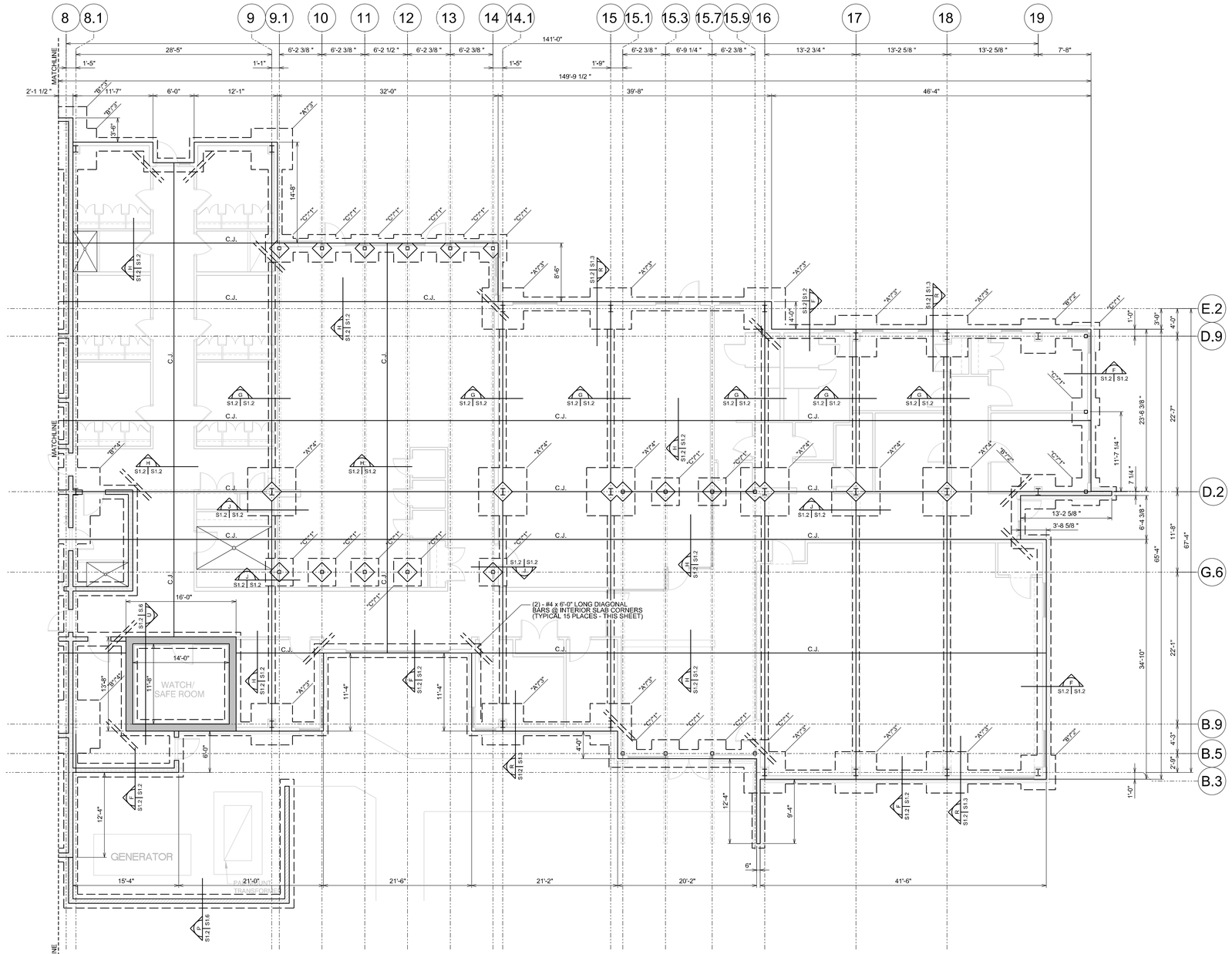
FIRE STATION NO. 1

GREENE COUNTY

FOUNDATION PLAN

DATE	REVISION
5/30/19	Addendum 1

SURVEY BY:
DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: APRIL 29, 2019
JOB NO: XXXXXCPARA
FILENAME:
SHEET: S1.1



FOUNDATION PLAN

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

NOTE:
1. CONCRETE SHALL ACHIEVE 4000 PSI IN 28 DAYS.
2. MAXIMUM ALLOWABLE w/c RATIO = 0.55
3. MAXIMUM ALLOWABLE SLUMP = 5"
4. NO CHLORIDE ADDITIVES ALLOWED.
5. "C.J." INDICATES CONTROL JOINT PER DETAIL "G". SAWCUTS SHALL BE MADE WITHIN 8 HOURS OF POUR.

COLUMN SCHEDULE	
A	PRE-ENGINEERED MAIN FRAME COLUMN
B	PRE-ENGINEERED ENDWALL COLUMN
C	HSS 6x6x5/8" COLUMN

ALL COLUMNS TO HAVE (4 MINIMUM) - 3/4" DIA ASTM F1554 HIGH STRENGTH ALL-THREAD BOLTS x 1'-3" LONG WITH DOUBLE NUT AND WASHERS ON BOTTOM OF ANCHOR BOLTS

FOOTING SCHEDULE		
1	4'-0"x4'-0"x1'-6" THK	W/(5) - #5 EACH WAY
2	5'-0"x5'-0"x1'-6" THK	W/(6) - #5 EACH WAY
3	6'-0"x6'-0"x2'-0" THK	W/(7) - #5 EACH WAY
4	7'-0"x7'-0"x2'-0" THK	W/(8) - #5 EACH WAY
5	10'-0"x10'-0"x2'-0" THK	W/(11) - #5 EACH WAY

FOOTING / COLUMN — "X'-Y"

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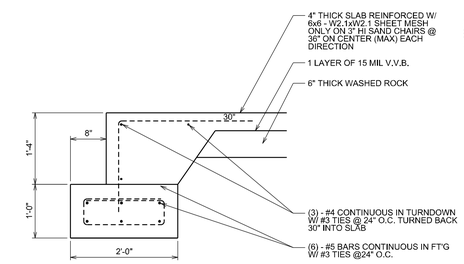
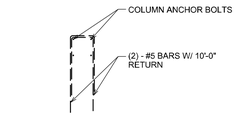
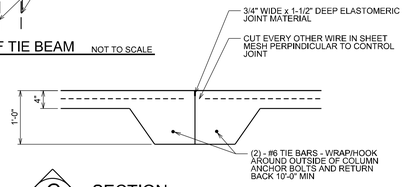


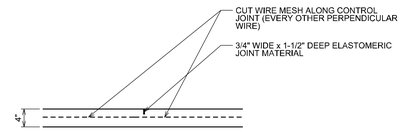
F S1.1/S1.2 | S1.2 — SECTION — SCALE: 3/4"=1'-0"
TYPICAL SECTION THRU SLAB TURNDOWN



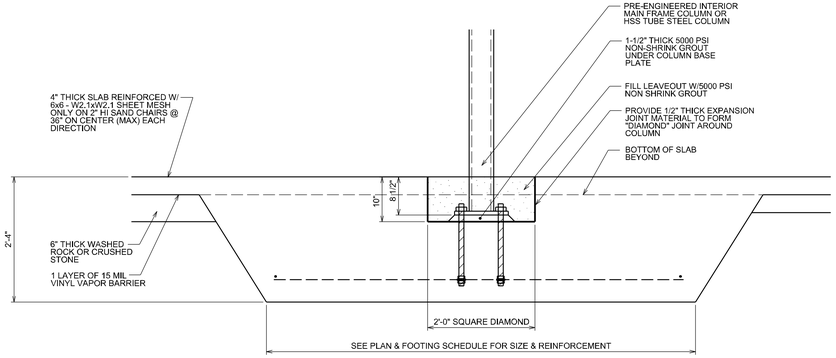
PLAN OF TIE BEAM NOT TO SCALE



G S1.2 | S1.2 — SECTION — SCALE: 3/4"=1'-0"
TYPICAL SECTION THRU CONTROL JOINT/TIE BEAM



H S1.2 | S1.2 — SECTION — SCALE: 3/4"=1'-0"
TYPICAL SECTION THRU CONTROL JOINT



J S1.2 | S1.2 — SECTION — SCALE: 3/4"=1'-0"
TYPICAL SECTION THRU INTERIOR COLUMN FOOTINGS

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 10540 — PHILLIP E. LEWIS

CERTIFICATE OF AUTHORIZATION — PHILLIP LEWIS ENGINEERING, INC. — No. 566 — ARKANSAS ENGINEER

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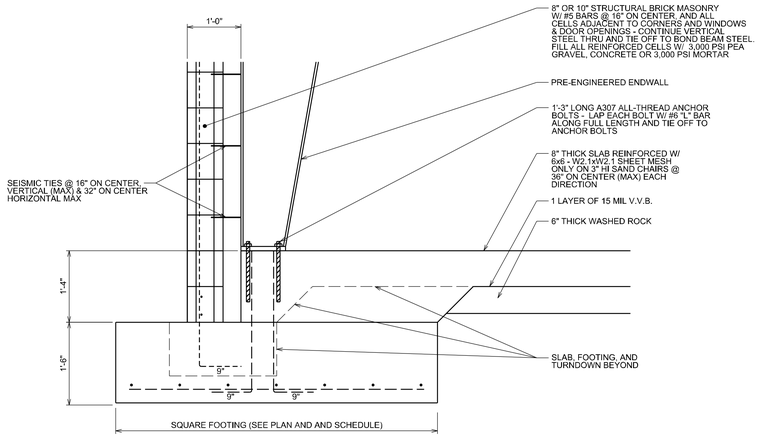
CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY
ARKANSAS

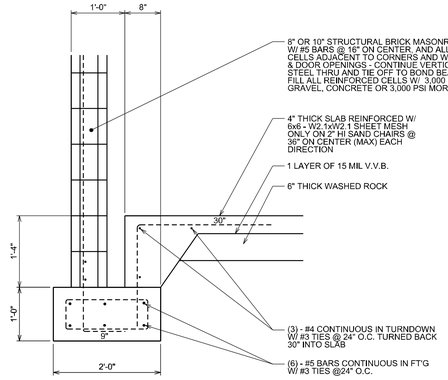
FOUNDATION PLAN II

DATE	REVISION
5/30/19	Addendum 1

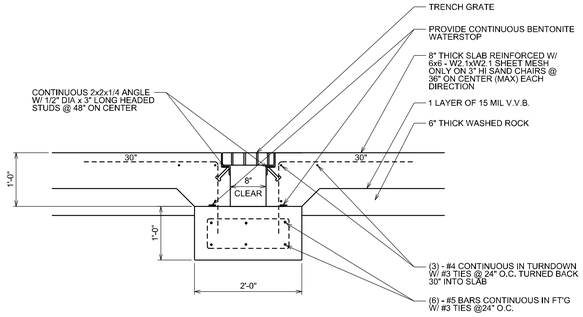
SURVEY BY:
DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: APRIL 29, 2019
JOB NO: XXXXXCPARA
FILENAME:
SHEET: S1.2



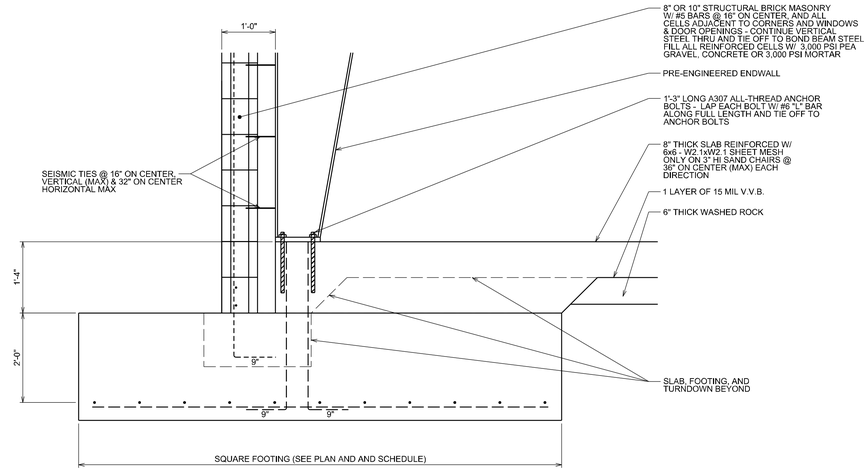
K SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.3 TYPICAL SECTION THRU ENDWALL COLUMN / CMU WALL



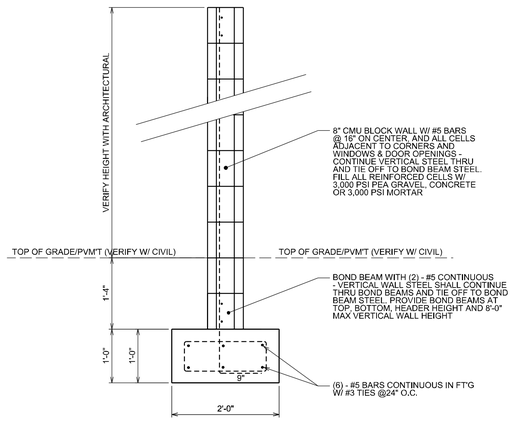
L SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.3 TYPICAL SECTION THRU PERIMETER TURNDOWN / STRUCTURAL BRICK MASONRY WALL



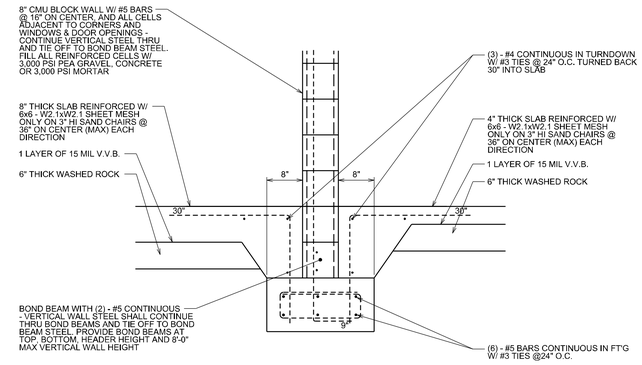
M SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.3 TYPICAL SECTION THRU TENCH DRAIN



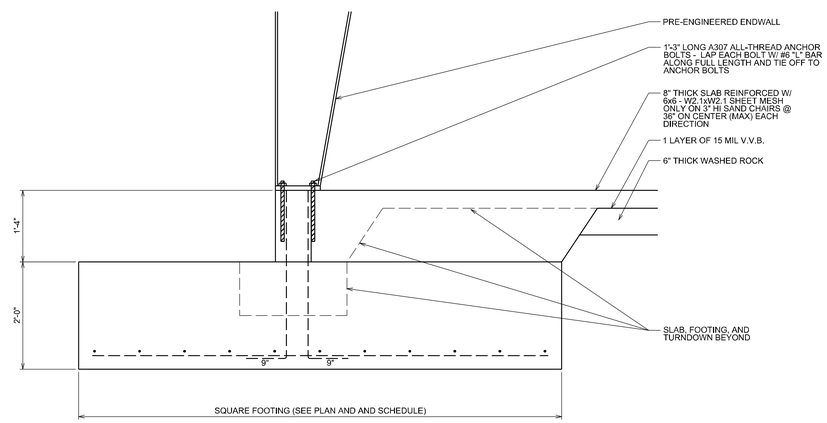
N SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.3 TYPICAL SECTION THRU MAIN FRAME COLUMN / THICKENED SLAB



P SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.3 SECTION THRU EXTERIOR SCREEN WALL



Q SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.3 TYPICAL SECTION THRU 8" & 4" SLAB CONNECTION



R SECTION — SCALE: 3/4"=1'-0"
S1.1 | S1.3 TYPICAL SECTION THRU MAIN FRAME COLUMN

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CERTIFICATE OF AUTHORIZATION — PHILLIP LEWIS ENGINEERING, INC. — ARKANSAS — ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 13540 — PHILLIP A. LEWIS

CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY
ARKANSAS
FOUNDATION DETAILS

DATE	REVISION
5/30/19	Addendum 1

SURVEY BY:
DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: APRIL 29, 2019
JOB NO: XXXXXCPARA
FILENAME:
SHEET: S1.3

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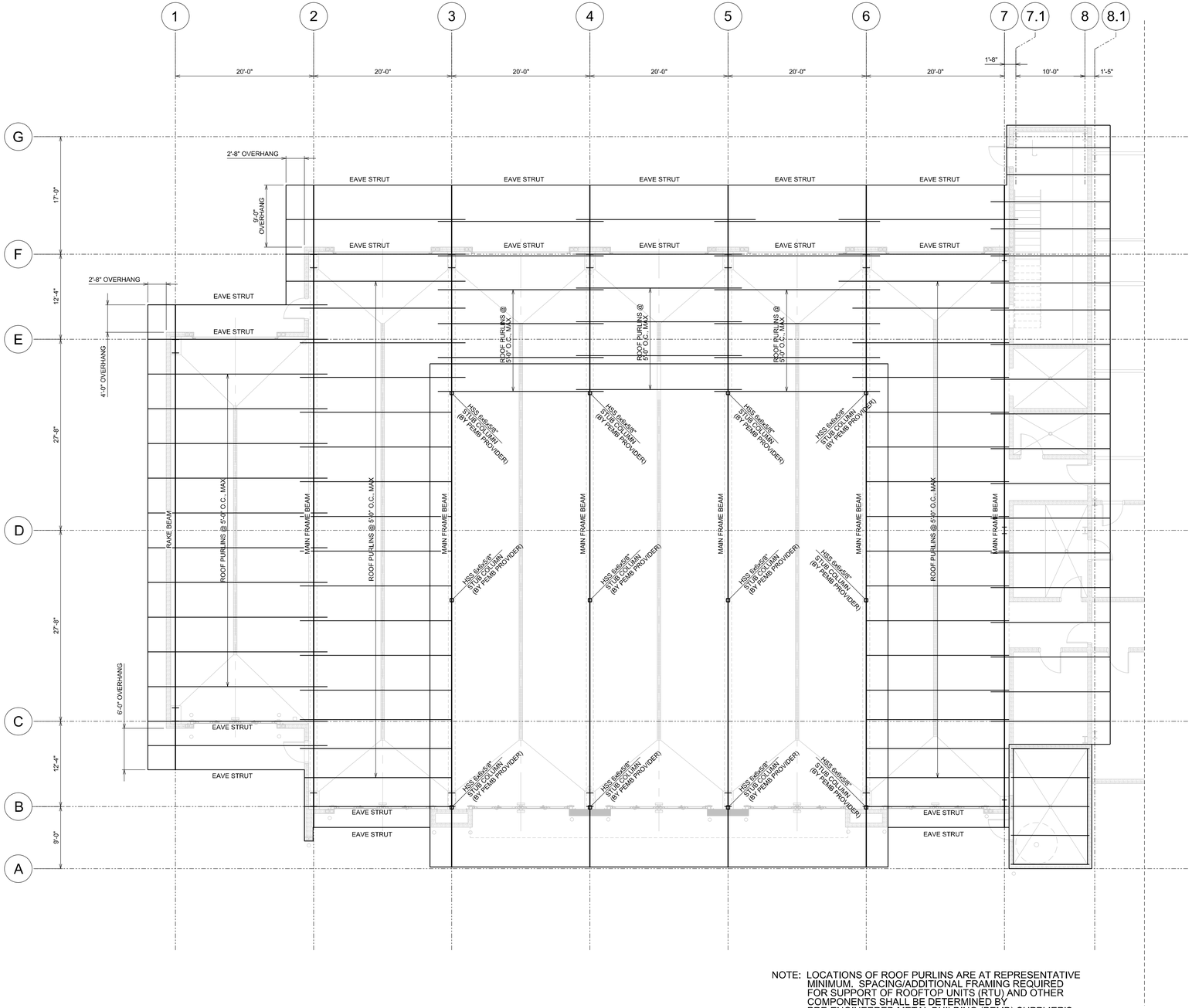
PRICING SET ONLY



NOTE: LOCATIONS OF ROOF PURLINS ARE AT REPRESENTATIVE MINIMUM. SPACING/ADDITIONAL FRAMING REQUIRED FOR SUPPORT OF ROOFTOP UNITS (RTU) AND OTHER COMPONENTS SHALL BE DETERMINED BY PRE-ENGINEERED METAL BUILDING (PEMB) SUPPLIER'S ENGINEER.

ROOF FRAMING PLAN - SOUTH

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

NOTES:

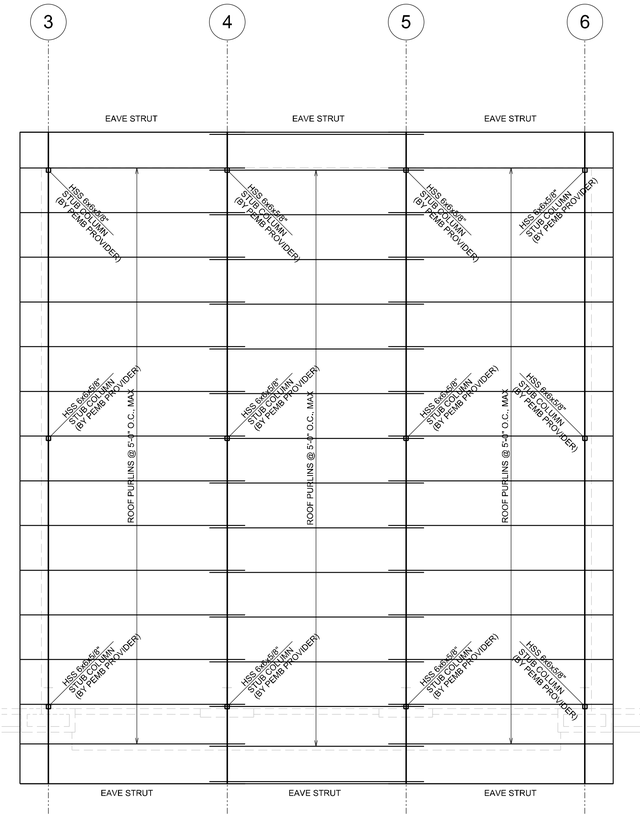
1. PRE-ENGINEERED ROOF SHALL BE DESIGNED FOR THE FOLLOWING LOADS/DEFLECTIONS:

MAIN FRAMES:
14 PSF - LIVE LOADS (MINIMUM REDUCED LOAD ALLOWED)
7 PSF - DEAD AND COLLATERAL LOAD
L/180 - MAXIMUM TOTAL LOAD DEFLECTION ALLOWED
L/300 - MAXIMUM LIVE LOAD DEFLECTION ALLOWED

PURLINS:
20 PSF - LIVE LOAD
5 PSF - DEAD AND COLLATERAL LOAD
L/180 - MAXIMUM TOTAL LOAD DEFLECTION ALLOWED

2. THE PRE-ENGINEERED BUILDING SHALL HAVE A MAXIMUM LATERAL TOTAL LOAD DEFLECTION/DRIFT OF H/180.

3. PRE-ENGINEERED DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. THEY SHALL BE STAMPED BY A ENGINEER CURRENTLY LICENSED TO PRACTICE ENGINEERING IN THE STATE OF ARKANSAS.



HIGH ROOF LEVEL FRAMING PLAN

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

NOTES:

1. PRE-ENGINEERED ROOF SHALL BE DESIGNED FOR THE FOLLOWING LOADS/DEFLECTIONS:

MAIN FRAMES:
14 PSF - LIVE LOADS (MINIMUM REDUCED LOAD ALLOWED)
7 PSF - DEAD AND COLLATERAL LOAD
L/180 - MAXIMUM TOTAL LOAD DEFLECTION ALLOWED
L/300 - MAXIMUM LIVE LOAD DEFLECTION ALLOWED

PURLINS:
20 PSF - LIVE LOAD
5 PSF - DEAD AND COLLATERAL LOAD
L/180 - MAXIMUM TOTAL LOAD DEFLECTION ALLOWED

2. THE PRE-ENGINEERED BUILDING SHALL HAVE A MAXIMUM LATERAL TOTAL LOAD DEFLECTION/DRIFT OF H/180.

3. PRE-ENGINEERED DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. THEY SHALL BE STAMPED BY A ENGINEER CURRENTLY LICENSED TO PRACTICE ENGINEERING IN THE STATE OF ARKANSAS.

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS–ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9540
PHILLIP A. LEWIS
04/29/2019

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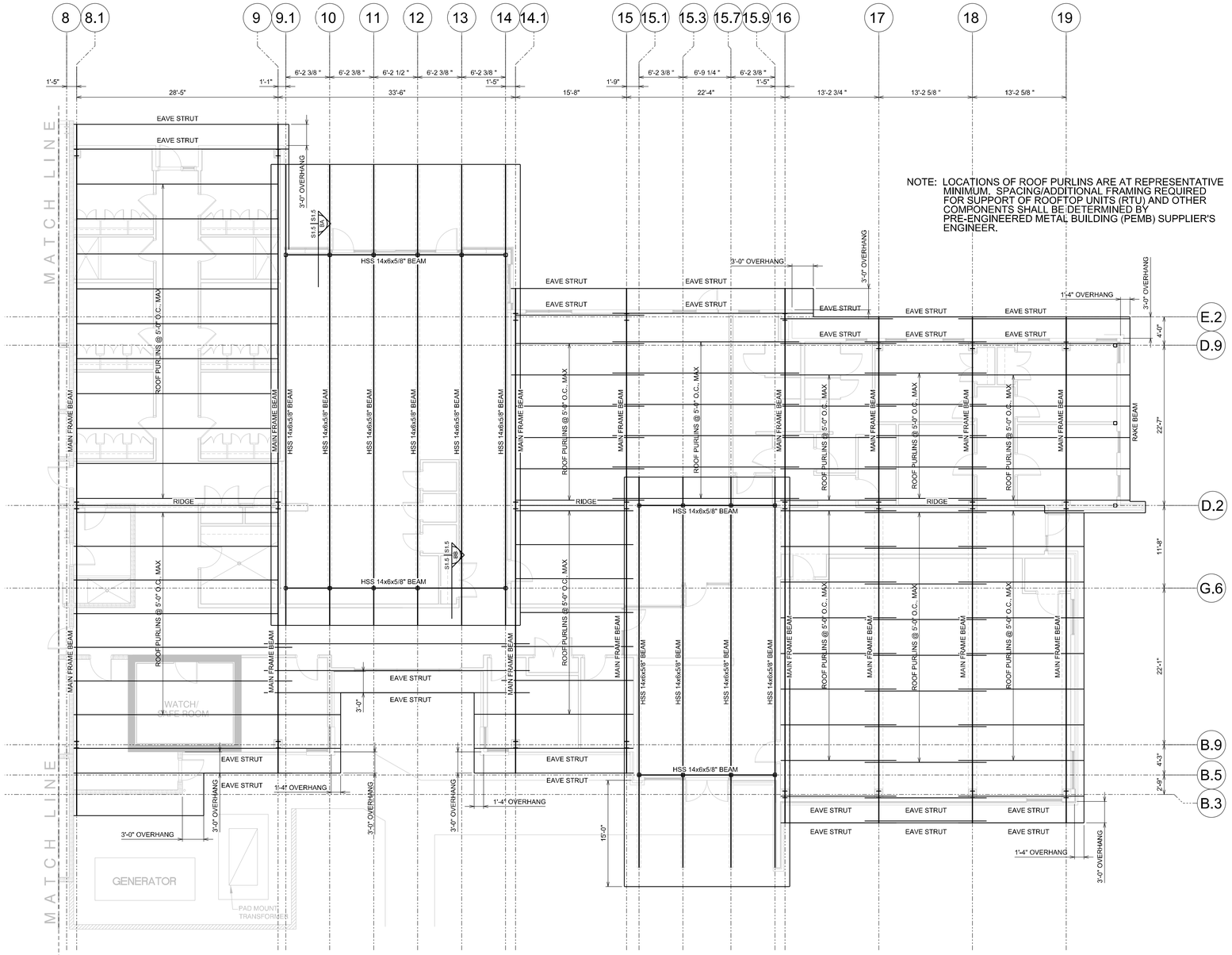
CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY
ARKANSAS

ROOF FRAMING PLAN - SOUTH

DATE	REVISION
5/30/19	Addendum 1

SURVEY BY:
DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE
APRIL 29, 2019
JOB NO: XXXXXCPARA
FILENAME:
SHEET
S1.4



NOTE: LOCATIONS OF ROOF PURLINS ARE AT REPRESENTATIVE MINIMUM. SPACING/ADDITIONAL FRAMING REQUIRED FOR SUPPORT OF ROOFTOP UNITS (RTU) AND OTHER COMPONENTS SHALL BE DETERMINED BY PRE-ENGINEERED METAL BUILDING (PEMB) SUPPLIER'S ENGINEER.

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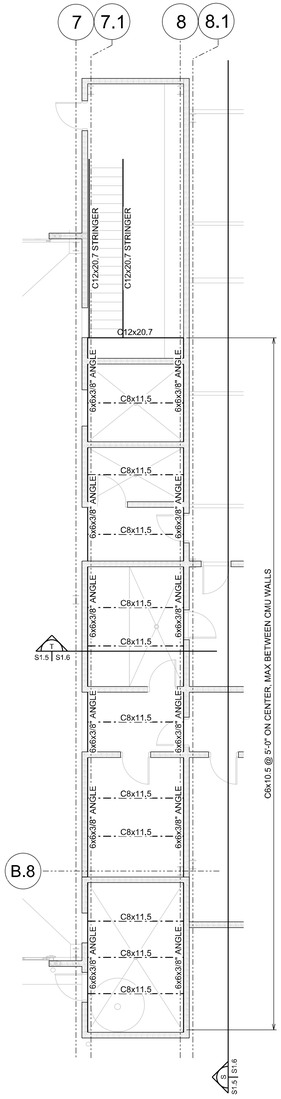
PRICING SET ONLY



ROOF FRAMING PLAN - NORTH

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

NOTES:

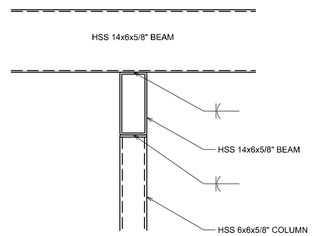
1. PRE-ENGINEERED ROOF SHALL BE DESIGNED FOR THE FOLLOWING LOADS/DEFLECTIONS:

MAIN FRAMES:
14 PSF - LIVE LOADS (MINIMUM REDUCED LOAD ALLOWED)
7 PSF - DEAD AND COLLATERAL LOAD
L/180 - MAXIMUM TOTAL LOAD DEFLECTION ALLOWED
L/300 - MAXIMUM LIVE LOAD DEFLECTION ALLOWED

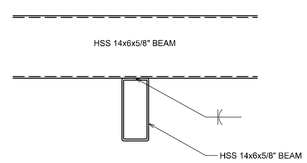
PURLINS:
20 PSF - LIVE LOAD
5 PSF - DEAD AND COLLATERAL LOAD
L/180 - MAXIMUM TOTAL LOAD DEFLECTION ALLOWED

2. THE PRE-ENGINEERED BUILDING SHALL HAVE A MAXIMUM LATERAL TOTAL LOAD DEFLECTION/DRIFT OF H/180.

3. PRE-ENGINEERED DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. THEY SHALL BE STAMPED BY A ENGINEER CURRENTLY LICENSED TO PRACTICE ENGINEERING IN THE STATE OF ARKANSAS.



BA SECTION
S1.5 | S1.5 SECTION THRU HSS FRAMING CONNECTION
SCALE: 3/4"=1'-0"



BB SECTION
S1.5 | S1.5 SECTION THRU HSS FRAMING CONNECTION
SCALE: 3/4"=1'-0"

MEZZANINE FRAMING PLAN

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

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9540
PHILLIP A. LEWIS
04-26-2019

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CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY ARKANSAS
ROOF FRAMING PLAN - NORTH

DATE	REVISION
5/30/19	Addendum 1

SURVEY BY:
DESIGN BY:
DRAWN BY:
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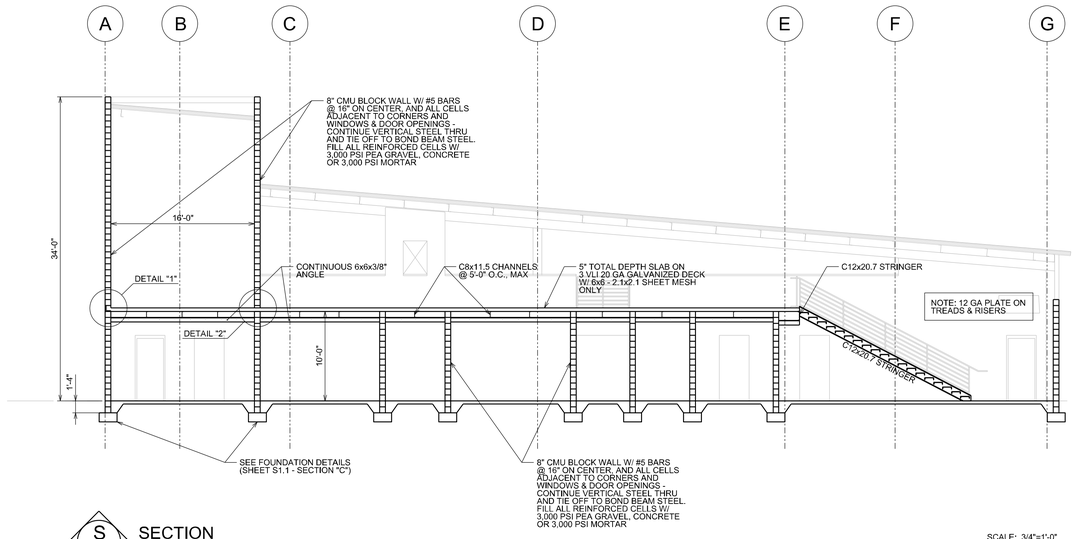
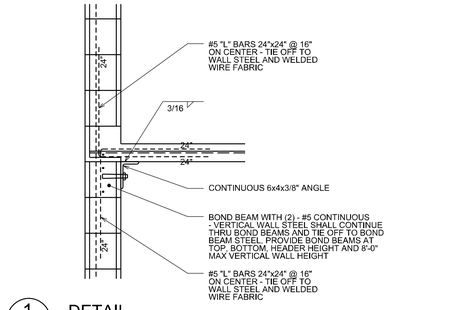
DATE
APRIL 29, 2019
JOB NO: XXXXXCPARA
FILENAME:
SHEET
S1.5



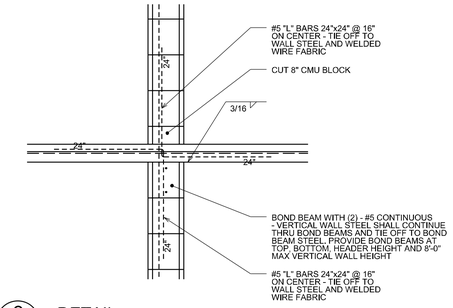
S SECTION — SCALE: 3/4"=1'-0"

S1.5 | S1.6 TYPICAL SECTION ALONG MEZZANINE FRAMING



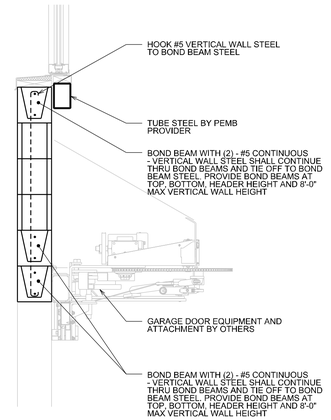
1 DETAIL — SCALE: 3/4"=1'-0"

S1.6 | S1.6 DETAIL AT SLAB AND CMU BLOCK ENDWALL



2 DETAIL — SCALE: 3/4"=1'-0"

S1.6 | S1.6 DETAIL AT SLAB AND CMU BLOCK ENDWALL



3 DETAIL — SCALE: 3/4"=1'-0"

S1.6 | S1.6 DETAIL OF GARAGE DOOR HEADER (APPARATUS ROOM)

T SECTION — SCALE: 3/4"=1'-0"

S1.5 | S1.6 SECTION THRU MEZZANINE FRAMING

U SECTION — SCALE: 3/4"=1'-0"

S1.2 | S1.6 SECTION THRU SAFE ROOM FOUNDATION

CERTIFICATE OF AUTHORIZATION — PHILLIP LEWIS ENGINEERING, INC. — ARKANSAS-ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 566 — PHILLIP A. LEWIS

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CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY ARKANSAS

DATE	REVISION
5/30/19	Addendum 1

SURVEY BY:
DESIGN BY:
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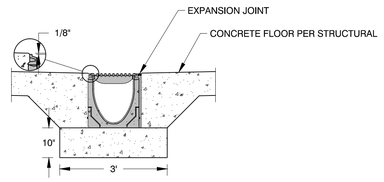
DATE: APRIL 29, 2019
JOB NO: XXXXXCPARA
FILENAME:
SHEET: S1.6

RADIANT FLOOR SYSTEM

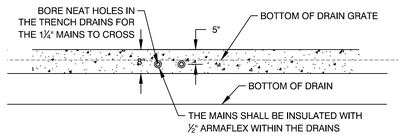
DESCRIPTION	SIZE/LENGTH	REFERENCE PRODUCT	COMMENTS
PUMP 1: HOT WATER CIRCULATOR	1"	TACO "00" SERIES 009-IFC STAINLESS STEEL VARIABLE SPEED ACCEPTING A 0-10V ANALOG SIGNAL	THIS PUMP SHOULD BE POWERED AND CONTROLLED BY THE TEKMAR HOUSE CONTROL 402
PUMP 2: HEATING WATER CIRCULATOR	1½"	TACO 00e SERIES VR15-3 WITH VARIABLE SPEED CONTROL	THIS PUMP SHOULD BE POWERED BY THE TEKMAR HOUSE CONTROL 402
BRAZED PLATE HEAT EXHANGER	4 X 1"	SWEP B10T BRAZED PLATE HEAT EXCHANGER WITH 38 STAINLESS STEEL PLATES, COPPER BRAZING AND 1" CONNECTIONS	
PUMP 1 STRAINER	1"	NIBCO 1" BRONZE Y-STRAINER WITH 20 MESH SCREEN SUITABLE FOR POTABLE WATER	
PUMP 2 STRAINER	1¼"	NIBCO 1¼" BRONZE Y-STRAINER WITH 20 MESH SCREEN	
PRESSURE REDUCER	½"	TACO COMFORT SOLUTIONS 3350 PRESSURE REDUCING VALVE WITH A 10 - 50 PSI RANGE, A FAST-FILL BUTTON WITH AUTOMATIC RESET AND FORGED BRASS BODY.	SET TO 20 PSI
AIR SEPARATOR	1¼"	TACO COMFORT SOLUTIONS 4900 SERIES MODEL 49-125 WITH ½" BOTTOM PORT AND BRASS HOUSING	
EXPANSION TANK	8 GALLON	TACO COMFORT SOLUTIONS CBX30-125 WITH 8 GALLON OVERALL TANK VOLUME AND 5 GALLON ACCEPTANCE VOLUME	PRECHARGE TO 20 PSI. PROVIDE SEISMIC RESTRAINTS.
THERMOSTAT	---	TEKMAR W/TEKMARNET 2	THE ROOM THERMOSTAT SHALL INCLUDE A ROOM TEMPERATURE SENSOR, A FLOOR TEMPERATURE SENSOR AND THE REQUIRED TRANSFORMER.
RADIANT FLOOR PEX	½", 1¼"	UPONOR WIRSBO HEPEX OXYGEN BARRIER TUBING. THE FLOOR LATERALS ARE ½". THE MAINS ARE 1½".	
PLUMBING PEX	1"	UPONOR AQUAPEX	
THERMOMETERS	5½"	TRERICE ECONO-THERM MODEL 4350-1-02 RIGID STRAIGHT 5½" THERMOMETER WITH 2" ALUMINUM STEM AND A 30° TO 180°F RANGE. PROVIDE TRERICE 304SS THERMOWELLS FOR 2" STEMS.	TOTAL OF 4 THERMOMETERS; TWO IN THE INCOMING AND OUTGOING 1 ½" RADIANT PIPING AND TWO IN THE INCOMING AND OUTGOING 1" POTABLE WATER.
CONTROL PANEL	---	TEKMAR HOUSE CONTROL 402	PROVIDE MIX TEMPERATURE SENSOR, THERMOWELL, OUTSIDE TEMPERATURE SENSOR AND TRANSFORMER

NOTES:

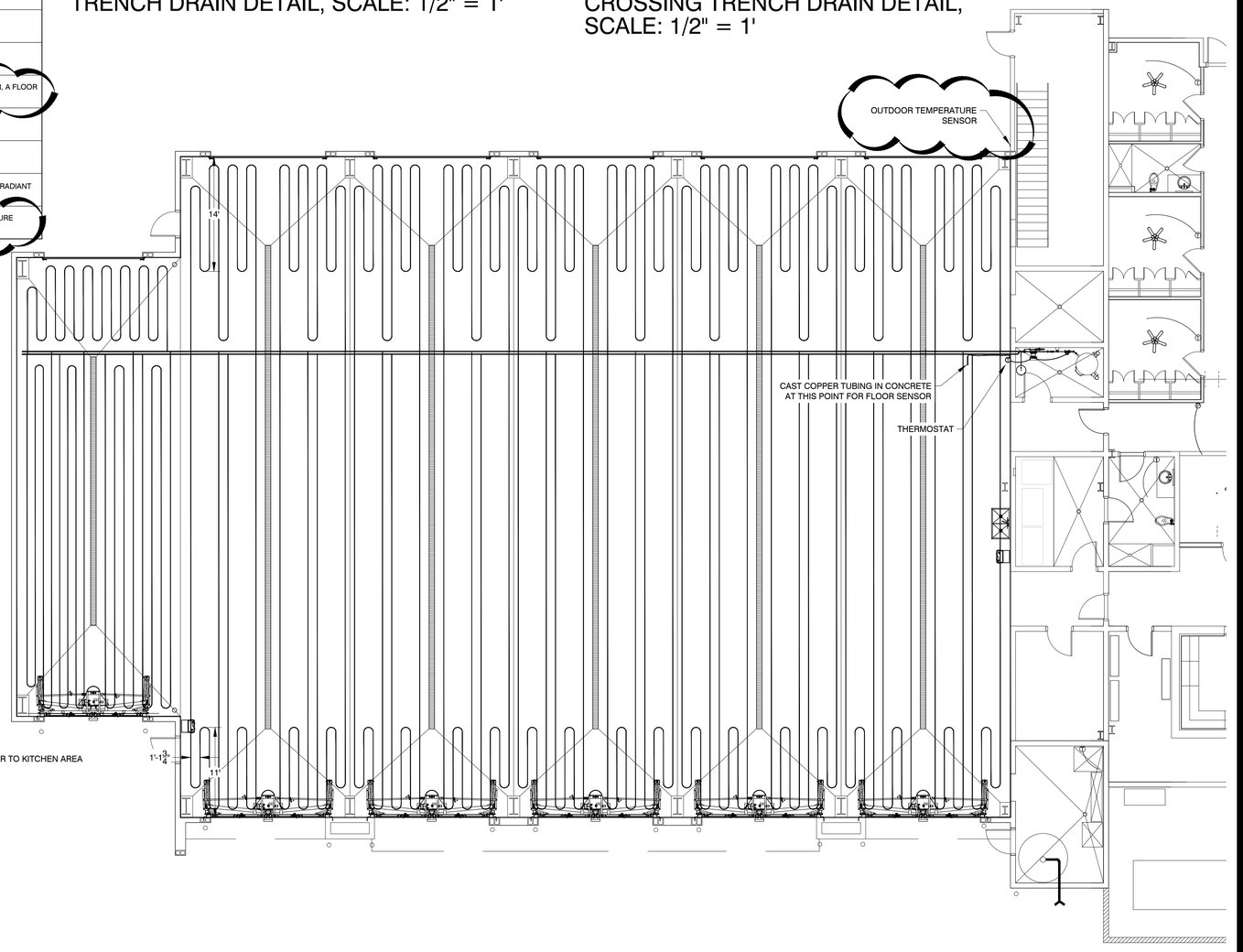
1. THE RADIANT FLOOR IS TO BE INSTALLED BY A CONTRACTOR EXPERIENCE IN RADIANT FLOOR INSTALLATION. THAT DOES NOT PRECLUDE THE PLUMBING CONTRACTOR FROM DOING THIS WORK SO LONG AS HE HAS SUCH EXPERIENCE. PORTIONS OF THIS WORK, THE POTABLE SIDE OF THE HEAT EXCHANGER, REQUIRE A LICENSED PLUMBER. THE RPZ IS ALREADY CALLED OUT AS THE WORK OF THE PLUMBING CONTRACTOR. THE PLUMBING SIDE OF THE DETAIL BELOW IS THE WORK OF THE PLUMBING CONTRACTOR.
2. IT IS ACCEPTABLE TO SUBMIT A RADIANT FLOOR SYSTEM DESIGNED BY A MANUFACTURER OR RADIANT FLOOR PROFESSIONAL SO LONG AS IT IS EQUAL OR BETTER IN BOTH PERFORMANCE AND QUALITY.
3. THE HEATED SPACE IS 9,330 SF. DESIGN ROOM TEMPERATURE IS 60°F. SECONDARY WATER TEMPERATURE IS 100°F WITH A 18° DROP AND A 19.2 GPM FLOW RATE. PRIMARY WATER TEMPERATURE IS 150°F. THE SYSTEM IS DESIGNED FOR 180,000 BTU/HR LOAD. THE LATERALS TOTAL 4,721 LF.

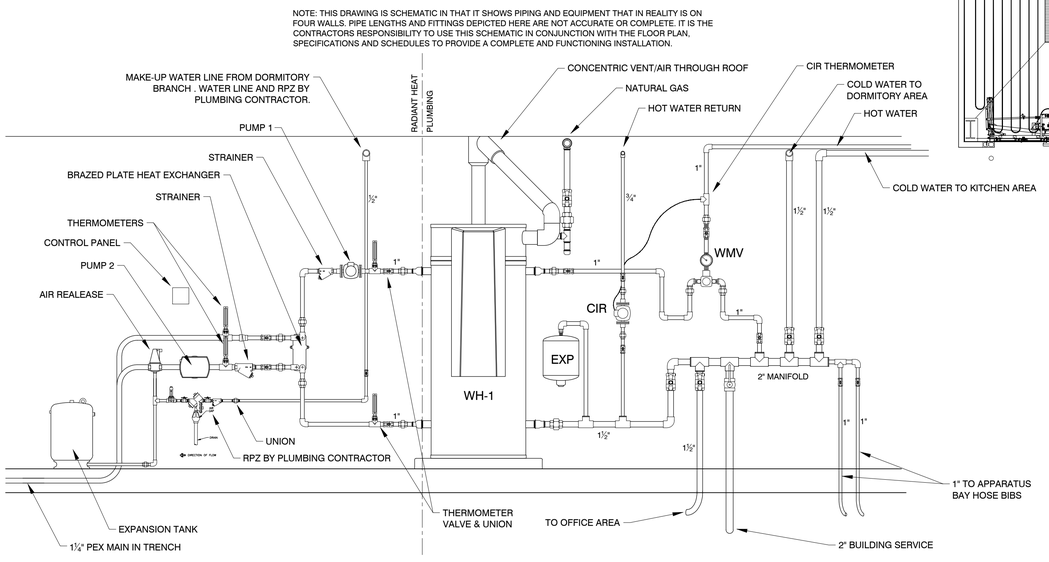


TRENCH DRAIN DETAIL, SCALE: 1/2" = 1'



CROSSING TRENCH DRAIN DETAIL, SCALE: 1/2" = 1'





MECHANICAL ROOM RADAINT HEAT AND PLUMBING DETAIL, SCALE: 1/2" = 1'

AREA A - APPARATUS ROOM RADIANT FLOOR PLAN

SCALE: ⅛" = 1'-0"

PLAN NORTH

REGISTERED ARCHITECTS ETC Engineers & Architects, Inc. No. C-462 ARKANSAS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER WILLIAM RAY ANDREWS NO. 9529

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS.
CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

ARKANSAS

CITY OF PARAGOULD

FIRE STATION NO. 1

GREENE COUNTY

RADIANT FLOOR PLAN - AREA A

DATE	REVISION

SURVEY BY:
DESIGN BY: WRA
DRAWN BY: WRA
CHECKED BY: WRA
DATE: MAY 6, 2019
JOB NO: 150302CPARA
FILENAME:
SHEET: R1.1

SECTION 01030

ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements governing allowances.
   1. Selected materials and equipment are specified in the Contract Documents by allowances. In some cases, these allowances include installation. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.

B. Type of allowance included in this project:
   1. Lump-sum allowance: $47,000.00, for installation of the **STATION ALERTING SYSTEM.**
   2. Lump-sum allowance: $**14,500.00**, for exterior and interior signage.

1.3 SELECTION AND PURCHASE

A. At the earliest practical date after award of the Contract, advise the Architect of the date when the final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.

B. At the Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.

C. Purchase products and systems selected by the Architect from the designated supplier.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly upon delivery for damage or defects.

3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

1. Allowance No.1: Include in the Base Bid the sum of Forty Seven Thousand Dollars ($47,000.00) is to be for the design and installation of the **STATION ALERTING SYSTEM.**

2. Allowance No. 2: Include the sum of Twelve Thousand Five Hundred Dollars ($**14,500.00**) for the design, shop drawings, purchase, taxes, freight, delivery, and installation of all interior and exterior signage for this project including: A **BUILDING PLAQUE**, Handicapped parking signs, parking stripes and painted directional arrows are included in the Civil Drawings).

   This allowance shall be for a turn-key process from design through installation.

END OF SECTION 01030

SECTION 08330
OVERHEAD SECTIONAL ALUM/GLASS DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Overhead coiling service door.

1.2 RELATED SECTIONS

A. Section 04200 – Structural Brick Masonry Units.

1.3 REFERENCES

A. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

B. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

C. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

A. Overhead Sectional Aluminum Glass Doors:
1. Wind Loads: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) without damage to door or assembly components.
2. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.

B. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.5 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Details of construction and fabrication.

4. Installation instructions.

C. Shop Drawings: Include detailed plans, elevations, details of framing members, anchoring methods, required clearances, hardware, and accessories. Include relationship with adjacent construction.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.

F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

G. Operation and Maintenance Data: Submit lubrication requirements and frequency, and periodic adjustments required.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.

B. Installer Qualifications: Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.

C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
1. Finish areas designated by Architect.
2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
3. Refinish mock-up area as required to produce acceptable work.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.

C. Store materials in a dry, warm, ventilated weathertight location.

1.8 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9 COORDINATION

A. Coordinate Work with other operations and installation of adjacent materials to avoid damage to installed materials.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.

B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 OVERHEAD SECTIONAL ALUMINUM GLASS DOORS

A. Commercial Aluminum Doors: Overhead Door Corporation, Model 521. Aluminum Glass doors per drawings w/standard powder coat color. Color to be selected.
   1. Finish:
      a. Aluminum Panels :
         1) Powder coat: PowderGuard
            (a) PowderGuard Premium: Weather resistant polyester powder coat color as selected by the Architect.
         2) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
   2. Weatherseals: Vinyl bottom seal.
   3. Bottom Bar: Extruded aluminum.
   4. Guides: Roll-formed galvanized steel shapes attached to continuous galvanized steel wall angle.
      a. Finish: PowderGuard Weathered finish with iron/black powder.
   5. Brackets: Galvanized steel to support counterbalance and curtain.
   6. Provide & Install **RSX** COMMERCIAL Door operator for each door.
   7. Wall Mounting Condition: Face-of-Wall.
   8. **GLASS SHALL BE 1" TEMP. LOW-E INSUL. GLASS**
   9. **Safety edges: Provide 4-wire fail-safe electric safety edges on leading edge of all doors to reverse door upon contact with obstruction.**
   10. **Provide one radio receiver and one single button remote for each door.**

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify opening sizes, tolerances and conditions are acceptable.

B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.

C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.

C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.

D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.

E. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07900.

F. Install perimeter trim and closures.

G. Instruct Owner’s personnel in proper operating procedures and maintenance schedule.

3.4 ADJUSTING

A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.

B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.5 CLEANING

A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.

B. Remove labels and visible markings.

C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 PROTECTION

A. Protect installed products until completion of project.

END OF SECTION

F-SERIES: FF300 SPECIFICATIONS
Four-Fold Door Systems

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes Four-Fold metal doors with surface mounted tube frames.

B. Operation of Four-Fold metal doors includes overhead mounted electro-mechanical operators.

1.3 SUBMITTALS

A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.

B. Product Data for each type of product specified consisting of manufacturer's technical Product Data and installation instructions for each type of door required, including data substantiating that products comply with requirements.

C. Submittal Drawings showing fabrication and installation of Four-Fold metal doors including plans, elevations, sections, details of components, hardware, operating mechanism, and attachments to the other units of Work. Include wiring diagrams for coordination with electrical trade.

D. Reference list including (5) successful installations of this type of door within the past two (2) years.

1.4 QUALITY ASSURANCE

A. Doors shall be designed to withstand external or internal horizontal wind loads of **(25)** pounds minimum per square foot. The maximum allowable deflection shall not exceed 1/120 of the span. Fiber stresses in main members shall be limited to 27,000 pounds per square inch. Steel frames shall be designed in accordance with the AISC "Steel Construction Manual".

B. Door manufacturer shall have at least 10 years experience in manufacturing door type specified.

1.5 DELIVERY, STORAGE AND HANDLING

A. Store delivered materials and equipment in dry locations with adequate ventilation, free from dust and water, and so as to permit access for inspection and handling.

B. Handle materials carefully to prevent damage.

1.6 WARRANTY

A. The door manufacturer shall provide a written standard limited warranty for material and workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Four-Fold industrial metal doors manufactured by Door Engineering and Manufacturing, 400 Cherry Street, Kasota, MN 56050, (800)-959-1352 or equal products by other manufacturers approved in advance.

FF300 Series: Glazed

B. Raynor Worldwide

Slidetite 2.0 Series 238

2.2 MATERIALS

A. Steel Tube: ASTM A513 and ASTM A500/A500M

B. Steel Sheets: Steel sheets of commercial quality, complying with ASTM A1011/A1011M hot-rolled steel sheet.

C. Hardware: Manufacturer's standard components.

D. Fasteners: Zinc-coated steel.

2.3 FOUR-FOLD DOORS

A. Construction: Door framing shall be minimum 11-gauge structural steel tube with 14-gauge steel sheet on the exterior and interior faces. Sheeting shall be formed on the vertical edges with no visible welds on the interior or exterior panel faces. All frames and framing members shall be true to dimension and square in all directions, and no door shall be bowed, warped, or out of line, in the

vertical or horizontal plane of the door opening by more than 1/8 inch in 20 feet. Exposed welds and welds which interfere with the installation of various parts shall be ground smooth and flush.

B. Surface Mounted Tube Frame: Supply pre-hung tube frame system constructed of minimum TS6x4x0.25, designed to anchor to masonry wall construction or weld to steel structure. All hinges, track supports and operator supports shall be factory attached.

C. Factory finish: Door Panels and Tube Frames shall be finished with manufacturer's standard PPG Spectracron epoxy primer and polyurethane top coat. Customer to select from Manufacturer's standard color chart or furnish sample to match.

    1. Operator and operating hardware shall be powder-coated manufacturer's standard gray.

D. Hardware: Hardware shall include guide tracks and brackets, trolleys, center guides, not less than three pairs of jamb and fold hinges per opening, and all bolts, nuts, fasteners, etc. necessary for complete installation and operation.

    1. All hardware, including hinges and trolleys, shall be bolted to the panel for easy removal for service or panel replacement.

    2. Doors up to 16' wide and under 30psf windload shall require no floor mounted supports, guides or tracks.

    3. Top tracks shall be adjustable on the end track hangers to allow for adjustment of the door panels in the open position and easily replaceable without removal of the door framing or operators.

E. Hinges: Jamb hinges shall be dual shear and have two thrust bearings and two needle bearings. Fold hinges shall be stainless steel and be dual shear with two thrust bearings. All bearings shall be completely concealed within the hinge barrel and include grease zerks. All hinge pins shall be minimum ¾" diameter hardened steel.

F. Hinge Guards: Provide plastic guards at jamb hinges to prevent access through hinge space.

G. Weatherstripping: Material shall be adjustable and readily replaceable and provide a substantially weather-tight installation. Weatherstripping at center shall be 1/16" cloth inserted neoprene and include no exposed fasteners on the exterior face of the panel. Weatherstripping at sill shall include two 1/16" cloth inserted neoprene sweeps with an aluminum retainer. The retainer shall be attached to the door with adhesive.

H. Perimeter Weatherstripping: Provide jamb and head weatherstipping of 1/16" cloth-inserted neoprene bulb (or closed cell neoprene).

I. Vision Panels: Provide 1" insulated, tempered, **low-e**, vision panels of the size, shape and location as noted on the drawings.

2.4 OPERATOR

A. Each Four-Fold door shall be operated by an overhead mounted electro-mechanical drive unit designed for high cycle operation. Operator consists of an electric motor, gear reducer, and rotating drive arm. The door shall be operated with connecting rods attached to the rotating drive arm on the operator and to control arms attached to the jamb door section and to the door lintel. The connecting rods shall be positive drive, keeping the door under firm control at all times. The connecting rods shall be fitted with spherical bearings and control arms shall be equipped with oil impregnated bronze bearings on polished shafts.

B. Operator shall be instantly reversible, open and close rapidly and start and stop gradually. Operator shall be adjustable to allow door to fully clear the opening. Operator shall automatically lock the door in the closed position. Operator shall be equipped with disengaging mechanism to convert to manual operation.

C. Electric motor shall be of sufficient size to operate doors under normal operating conditions at no more than 75 percent of rated capacity. The motor shall be wound for three phase 208/230/480 VAC, 60 Hertz operation.

D. Electric Controls: Controls shall be furnished by the door manufacturer and shall be complete for each door, and built in accordance with the latest NEMA standards. **Incoming electrical shall be: 120VAC single phase.**

1. Control panel assemblies shall be UL listed as per NFPA70.

2. Controls shall include a programmable logic controller with digital message display or LED indicators. Controller shall include programmable close timers and programmable inputs/outputs.

3. Controls shall include a variable frequency drive with independent adjustment of the opening and closing speeds.

4. Enclosures shall be NEMA 4 with disconnect switch.

5. Pushbuttons (interior) for each door shall have three (3) momentary pressure three-button push-button station marked "OPEN", "CLOSE" and "STOP". Push button enclosure shall be NEMA 4.

6. Limit switches shall be provided to stop the travel of the door in its fully open or fully closed position.

7. Safety edges: Provide 4-wire fail-safe electric safety edges on leading edge of all doors to reverse door upon contact with obstruction.

8. Photo eyes: Provide (1) exterior, jamb mounted, light Curtain type photo eyes, NEMA 4 rated. Photo eye shall cover from floor level to 72" above floor.

9. Presence Sensor: Provide (1) interior, overhead mounted, presence sensor with pre-open and pre-close safety fields. Sensor shall be LZR-Widescan or equal.

10. Radio controls: Provide one (1) radio receiver and (1) single button remotes per door. Remotes to open and close doors with single button.

11. Wiring: Door manufacturer shall supply controls and components only. Electrical contractor shall install controls and furnish and install conduits and wiring for jobsite power and control wiring.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install Four-Fold metal doors in strict accordance with the approved drawings by qualified door erection crews. All door openings shall be completely prepared by the general contractor prior to the installation of the doors. Permanent or temporary electric wiring shall be brought to the door opening before installation is started and shall be completed so as not to delay the inspection test.

B. Doors shall be set plumb, level, and square, and with all parts properly fastened and mounted. All moving parts shall be tested and adjusted and left in good operating condition.

3.2 ADJUSTING AND CLEANING

A. Inspection of the doors and a complete operating test will be made by the installer in the presence of the general contractor or architect as soon as the erection is complete. Any defects noted shall be corrected. After door approval in the above test, the general contractor must assume the responsibility for any damage or rough handling of the doors during construction until the building is turned over to the owner and final inspection is made.

B. Clean surfaces and repaint abraded or damaged finished surfaces to match factory-applied finish.

END OF SECTION

ARCHITECTURAL KEYNOTES

3.1. REINFORCED CONCRETE FOOTING PER STRUCTURAL DRAWINGS (S.D.).

3.2. REINFORCED CONCRETE SLAB ON GRADE PER S.D. OVER MIN. 10 MIL VAPOR BARRIER o/ 6" DRAIN ROCK OVER COMPACTED FILL PER CIVIL DRAWINGS (C.D.). NOTE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE SLAB DURING CONSTRUCTION. PROVIDE SURFACE PROTECTION OF THE SLAB AFTER IT IS POURED. SLAB SHALL HAVE A POLISHED/SEALED FINISH.

3.2.1 8" REINFORCED CONCRETE SLAB ON GRADE o/ MIN. 10 MIL. POLYVINYL VAPOR BARRIER o/6" DRAIN ROCK. SLAB SHALL HAVE AN IN-FLOOR RADIANT HEATING SYSTEM PER MECH. DWGS. AND EPOXY FLOOR COATING FINISH.

4.1. 8x8x16 STANDARD CMU STEM WALL PER S.D.

4.1.1 8x8x16 STANDARD CMU WALL PER S.D. w/EPOXY COATING PER FIN. SCHED.

4.1.2. 10x8x16 CMU FULLY GROUTED PER S.D. FEMA SAFE ROOM

4.2. STRUCTURAL BRICK MASONRY UNITS IN VARIOUS SIZES PER ARCH. ELEV. AND REINF./GROUTED PER S.D.

4.2.1. BRICK VENEER o/METAL STUD FRAMING.

5.1. RIGID STRUCTURAL STEEL FRAME PER PRE-ENGINEERED METAL BUILDING (PEMB) MANUFACTURER. PAINT ALL EXPOSED STRUCTURAL STEEL.

5.1.2. GALV. STRUCTURAL METAL DECKING o/STRUCTURAL 'ZEE' AND 'CEE' PURLINS PER PEMB.

5.1.3. HSS 12x6 MIN. STEEL OUTRIGGER PER PEMB: PAINT

5.2. HSS RAFTERS PER S.D.: PAINT

5.3.1. 6"x18 GA. GALV. EXTERIOR STEEL STUDS @ 24" O.C. AT ALL EXTERIOR WALLS, ADMINISTRATION (B) AREA.

5.3.2. 6"x18 GA. GALV. INTERIOR STEEL STUDS @ 24" O..C.

5.3.3. $3\frac{5}{8}$" x 20 GA. GALV. STL. STUDS @ 24" O.C.

5.3.4. $3\frac{5}{8}$" x 20 GA. GALV. STL. STUD BRACING-CONTRACTOR'S OPTION: CONTINUE STUDS TO BOT. OF ROOF DECK OR BRACE @ 48" O.C. - BRACES SHOULD BE @ 45 DEGREES +/-.

5.5. MIN. 18 GA PAINTED STEEL FACE PLATE o/MTL. STUD FRAMING FOR MOUNTING HOSE BIBB, DOOR CONTROLS, AND ALERT DISPLAY PANEL/SPEAKERS.

5.5.1 STEEL PAN STAIRS: WITH MC STRINGERS AND $\frac{1}{4}$" SAFETY PLATE TREADS AND RISERS. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION, WITH SHOP COAT OF RED OXIDE PRIMER. AND $1\frac{1}{4}$" DIA. STL. PIPE HANDRAIL & GUARDRAILS

5.5.2. $1\frac{1}{4}$" DIA. STL. PIPE GUARDRAIL WITH RAILS @ 5" O.C. AND POSTS @ 5' O.C. MAX.

5.5.3 STEEL LADDER WITH SAFETY CAGE AND SIDE STEP-OFF LANDING.

6.1. 2x6 NOMINAL TONGUE AND GROOVE WOOD DECKING w/ FACTORY APPLIED STAIN/SEALANT o/HSS RAFTERS.

6.2. WOOD MILLWORK SEE INTERIOR ELEVATIONS

7.1. EXTERIOR CLADDING SYSTEM: "PAC CLAD" -"SNAP-CLAD" OR EQUAL ARCHITECTURAL STANDING SEAM METAL PANELS o/1" x 20 GA. GALV. STL. "ZEE" FURRING CHANNELS, 1" RIGID POLYISO. INSULATION o/ WATERPROOF BUILDING WRAP O/$\frac{5}{8}$" EXTERIOR GYPSUM BOARD o/6" x 18 GA. GALV. STL. STUDS @ 24" O.C. w/2" SPRAY APPLIED CLOSED CELL POLYURETHANE FOAM INSUL. @CAVITY. ALL METAL SIDING PANELS, TRIM, AND FLASHING SHALL HAVE A PRE-PAINTED "KYNAR 500" OR EQUAL FINISH.

7.1.2. EXTERIOR CLADDING SYSTEM: BRICK VENEER, AIR SPACE, 1" x 20 GA. GALV. STL. "ZEE" FURRING CHANNELS, 1" RIGID POLYISO. INSULATION o/ WATERPROOF BUILDING WRAP O/$\frac{5}{8}$" EXTERIOR GYPSUM BOARD o/6" x 18 GA. GALV. STL. STUDS @ 24" O.C. w/2" SPRAY APPLIED CLOSED CELL POLYURETHANE FOAM INSUL. @CAVITY.

7.2.1. ROOFING SYSTEMS - APPARATUS ROOM (AREA A w/1:12 SLOPE): "PETERSEN" "PAC-CLAD - TITE-LOC" OR EQUAL MECHANICALLY SEAMED STANDING SEAM METAL ROOFING PANELS RATED FOR A MINIMUM SLOPE OF $\frac{1}{2}$:12, o/MBU, "GRACE ICE AND WATER DAM" OR EQUAL PEEL AND STICK ROOF UNDERLAYMENT, o/2" OF "ATLAS" AC FOAM II NAILABLE FOAM BASE", o/2" "AC FOAM II" RIGID POLYISO. ROOF INSULATION (STAGGER ALL JOINTS), o/ $1\frac{1}{2}$" GALV. STRUCT. METAL DECKING PER PEMB MANF. o/ STL. "ZEE" AND "CEE" PURLINS o/ RIGID STRUCTURAL STL. FRAME PER PEMB MANF. ALL ROOFING, FLASH., TRIM, GUTTERS & DS. SHALL HAVE A GALVALUME FINISH.

7.2.2. ROOFING SYSTEMS - ADMINISTRATION (AREA B w/2:12 SLOPE): "PETERSEN" "PAC-CLAD - SNAP-CLAD" OR EQUAL STANDING SEAM METAL ROOFING PANELS RATED FOR A MINIMUM SLOPE OF 2:12, o/MBU, "GRACE ICE AND WATER DAM" OR EQUAL PEEL AND STICK ROOF UNDERLAYMENT, o/2" OF "ATLAS AC FOAM II NAILABLE FOAM BASE", o/2" "AC FOAM II" RIGID POLYISO. ROOF INSULATION (STAGGER ALL JOINTS), o/ $1\frac{1}{2}$" GALV. STRUCT. METAL DECKING PER PEMB MANF. o/ STL. "ZEE" AND "CEE" PURLINS o/ RIGID STRUCTURAL STL. FRAME PER PEMB MANF. ALL ROOFING, FLASH., TRIM, GUTTERS & DS. SHALL HAVE A GALVALUME FIN.

7.2.3. ROOFING SYSTEMS - GREAT ROOM AND LOBBY, ADMINISTRATION (AREA B w/2:12 SLOPE): "PETERSEN" "PAC-CLAD - SNAP-CLAD" OR EQUAL STANDING SEAM METAL ROOFING PANELS RATED FOR A MINIMUM SLOPE OF 2:12, o/MBU, "GRACE ICE AND WATER DAM" OR EQUAL PEEL AND STICK ROOF UNDERLAYMENT, o/2" OF "ATLAS AC FOAM II NAILABLE FOAM BASE", o/2" "AC FOAM II" RIGID POLYISO. ROOF INSULATION (STAGGER ALL JOINTS), o/$\frac{1}{2}$" PLYWD. o/$1\frac{1}{2}$" T&G WOOD DECKING o/HSS STEEL RAFTERS PER S.D. ALL ROOFING, FLASH, TRIM, GUTTERS & DS. SHALL HAVE A GALVALUME FINISH.

7.3. MIN. 24 GA GALV STL FLASH w/GALVALUME FINISH TYP.

7.4. MIN. 24 GA GALV. STL GUTTER w/GALVALUME FINISH TYP.

8.1. "KAWNEER" "TRIFAB 451VG 2" x 4 1/2" ALUMINUM FRAMING MEMBERS OR EQUAL DESIGNED FOR CENTER SET GLAZING. GLAZING SHALL BE 1" INSULATED GLASS. OUTER LITE: $\frac{1}{4}$" PPG SOLARGRAY, $\frac{1}{2}$" AIR-SPACE, INNER LITE: $\frac{1}{4}$" PPG SOLARBAN ON CLEAR TYPICAL.

8.1.1. "KAWNEER" STOREFRONT TYPE ALUMINUM FRAMING MEMBERS OR EQUAL DESIGNED FOR CENTER SET GLAZING. GLAZING SHALL BE $\frac{1}{4}$" CLEAR, TEMPERED WHERE REQUIRED, GLASS.

8.2.1 HOLLOW METAL DOOR & FRAME- PAINT.
8.2.2 SOLID CORE WOOD DOOR & HM FRAME - WITH FACTORY STAIN

8.3. 14' x 14' FOUR FOLD DOOR BY DOOR ENGINEERING AND MANF. LLC OR APPROVED EQUAL TYP. OF 5. 12' x 12' @ BAY 6.

8.3.1. 14" x 14" ALUMINUM AND GLASS COMMERCIAL GRADE SECTIONAL OVERHEAD DOOR, "OVERHEAD DOOR" -521 OR APPROVED EQUAL w/"OVERHEAD DOOR" RSX COMMERCIAL OPERATOR. TYP. OF 5. 12' x 12' @ BAY 6.

2

8.9. ALUMINUM/GLASS SWING DOOR
9.2.1. $\frac{5}{8}$" INTERIOR GYPSUM BOARD
9.2.2. $\frac{5}{8}$" EXTERIOR GYPSUM BOARD
9.2.3. $\frac{5}{8}$" SUSPENDED G.B. CEILING w/$1\frac{1}{2}$" BLACK IRON RUNNERS SUSPENDED FROM STEEL STRUCTURE @ 48" O.C AND $\frac{7}{8}$" HAT CHANNELS @ 24" O.C.

9.3. 2" FIBERGLASS SOUND ATTENUATION BLANKETS
9.5. SUSPENDED ACOUSTICAL CEILING SYSTEM: "ARMSTRONG ULTIMA" OR EQUAL.
9.5.1. SLOPED SUSPENDED ACOUSTICAL CEILING SYSTEM "ARMSTRONG ULTIMA" OR EQUAL.
9.6. RESILIENT BASE
9.7. EPOXY FLOOR COATING
9.9. PAINT

10.1. PARAGOULD FIRE DEPARTMENT PATCH/SIGNAGE. ALLOW $14,500.00 FOR SIGNAGE.

10.2. FIRE EXTINGUISHER

2

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

REGISTERED ARCHITECT
GERALD AVERY
Certificate Number 1544
STATE OF ARKANSAS
5/16/2019

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
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CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY
ARKANSAS

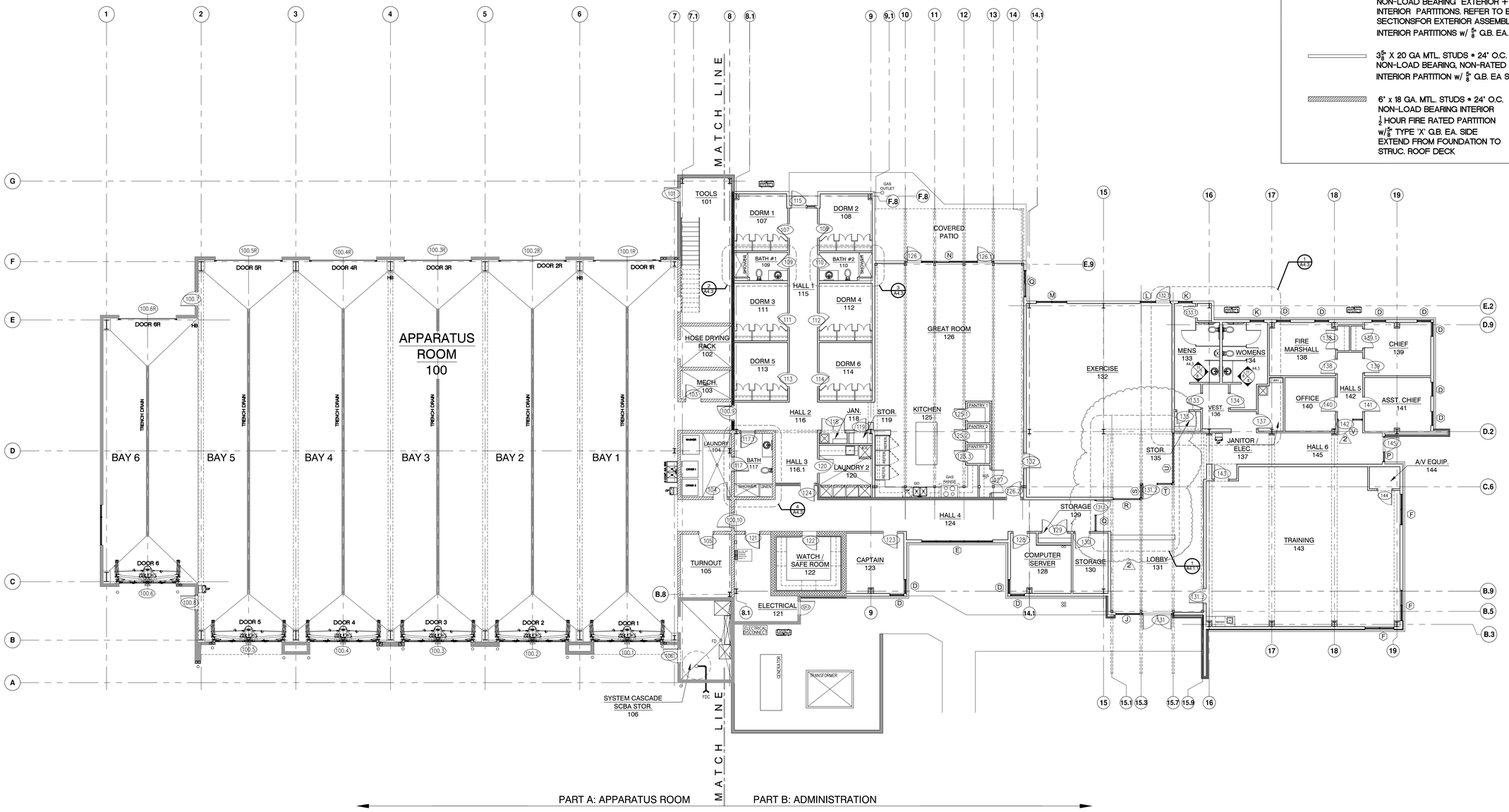
KEY NOTES

DATE	REVISION
5/30/2019	2

SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE: MAY 06, 2019
JOB NO: 150302CPARA
NAME: KEY NOTES
SHEET: A0.1

WALL TYPES

- 8 x 8 x 16 STRUC. BRICKS
- 8 x 10 x 16 STRUC. BRICKS
- 8 x 8 x 16 STANDARD CMU
- 8 x 8 x 16 STANDARD CMU
  ½ HOUR FIRE -RATED PARTITION
- 8 x 12 x 16 STANDARD CMU
  SOLID GROUT FILLED
  PER S.D.- TORNADO
  PROOF SAFE ROOM
- 6" x 18 GA. MTL. STUDS @ 24" O.C.
  NON-LOAD BEARING EXTERIOR +
  INTERIOR PARTITIONS. REFER TO BUILDING
  SECTIONSFOR EXTERIOR ASSEMBLIES.
  INTERIOR PARTITIONS w/ 5/8" G.B. EA. SIDE
- 3 5/8" X 20 GA MTL. STUDS @ 24" O.C.
  NON-LOAD BEARING, NON-RATED
  INTERIOR PARTITION w/ 5/8" G.B. EA SIDE
- 6" x 18 GA. MTL. STUDS @ 24" O.C.
  NON-LOAD BEARING INTERIOR
  ½ HOUR FIRE RATED PARTITION
  w/ 5/8" TYPE 'X' G.B. EA. SIDE
  EXTEND FROM FOUNDATION TO
  STRUC. ROOF DECK



OVERALL KEY FLOOR PLAN

SCALE: 3/32" = 1'-0"

PLAN NORTH

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4544
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5.6.2019

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CITY OF PARAGOULD
FIRE STATION NO. 1
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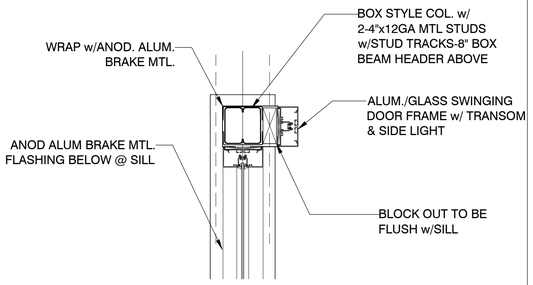
ARKANSAS

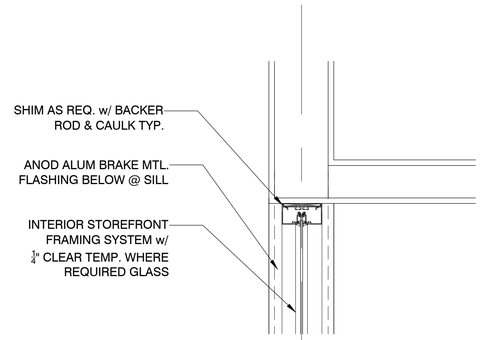
OVERALL KEY FLOOR PLAN

DATE	REVISION
5/30/2019	1

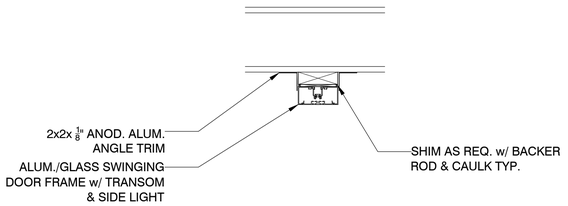
SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE: MAY 06, 2019
JOB NO: 150302CPARA
NAME: OVERALL KEY FLOOR PLAN
SHEET: A1.0



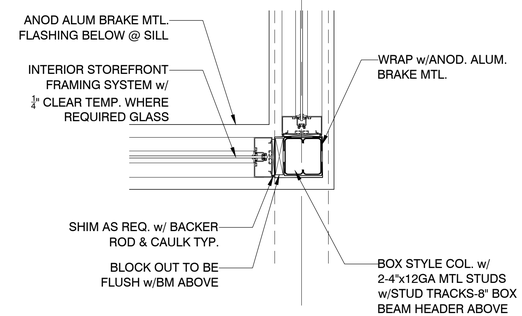
5 WINDOW DETAIL



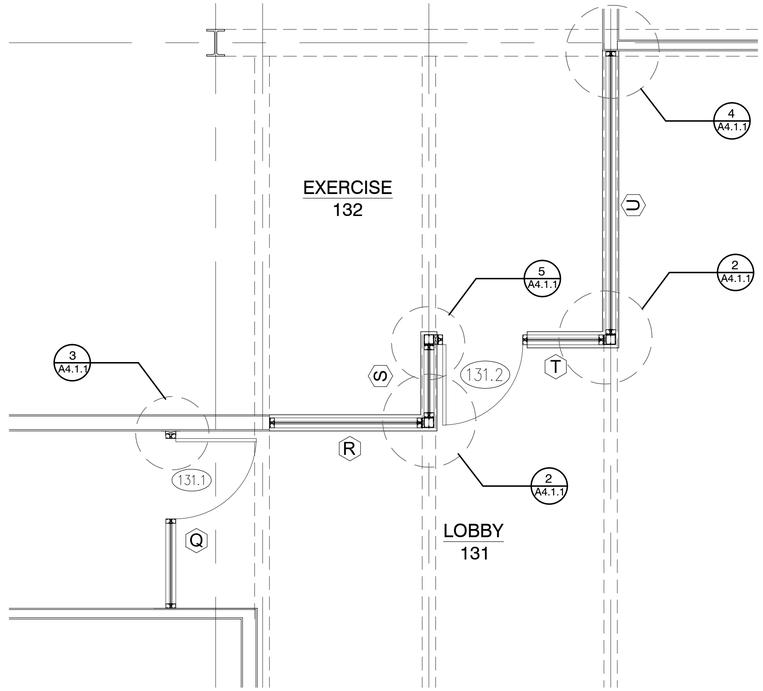
4 WINDOW DETAIL



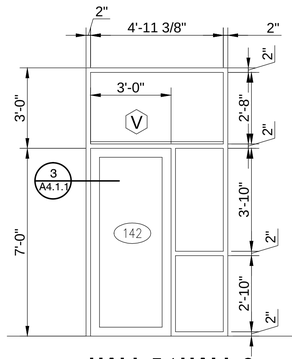
3 DOOR DETAIL



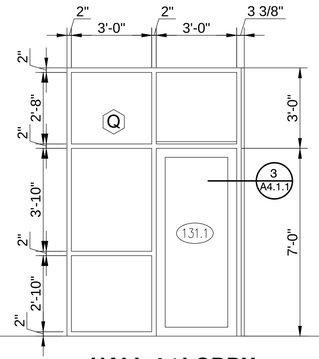
2 WINDOW DETAIL



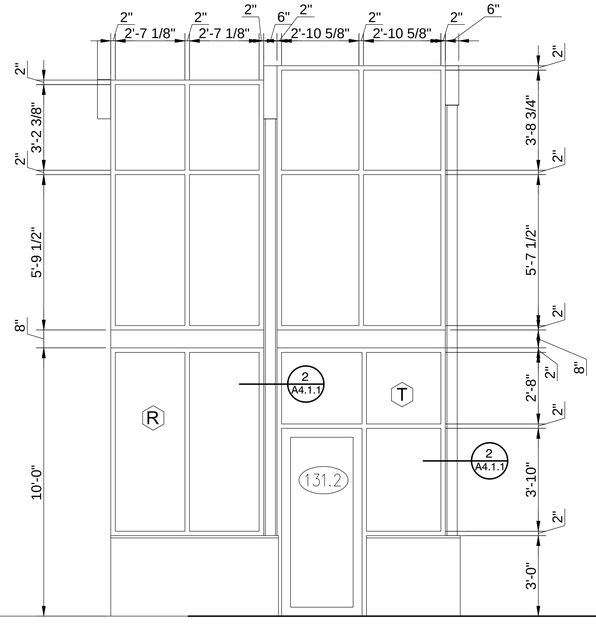
1 ENLARGED PLAN @ LOBBY / EXERCISE 3/8" = 1'-0"



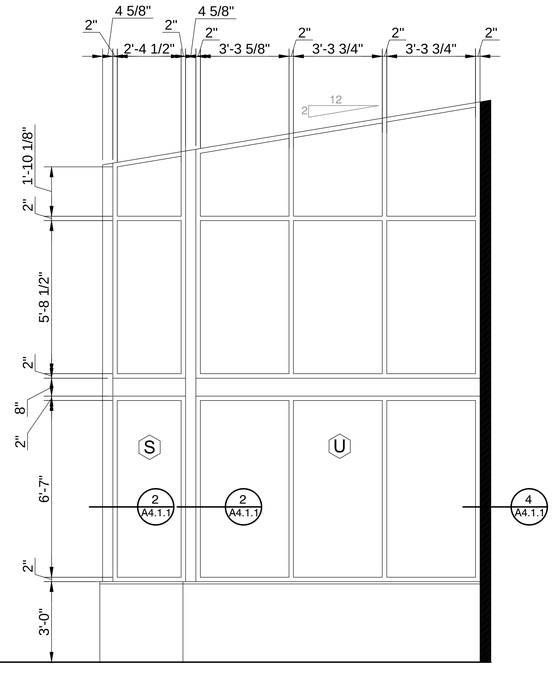
HALL 5 / HALL 6



HALL 4 / LOBBY



LOBBY / EXERCISE



LOBBY / EXERCISE

INTERIOR WINDOW TYPES 3/8" = 1'-0"

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4544
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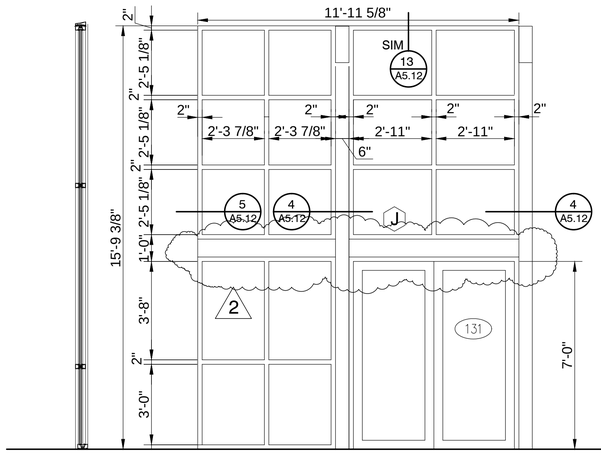
CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY
ARKANSAS

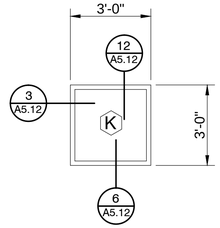
INTERIOR WINDOW TYPES

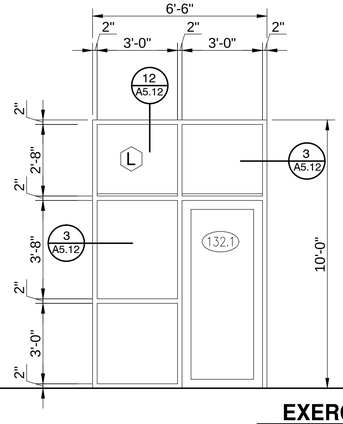
DATE	REVISION
05/30/2019	2

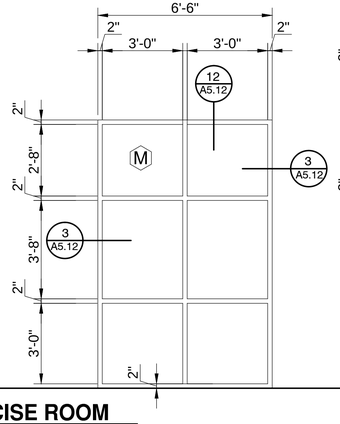
SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE: MAY 06, 2019
JOB NO: 150302CPARA
NAME: WINDOW TYPES
SHEET: A4.1.1



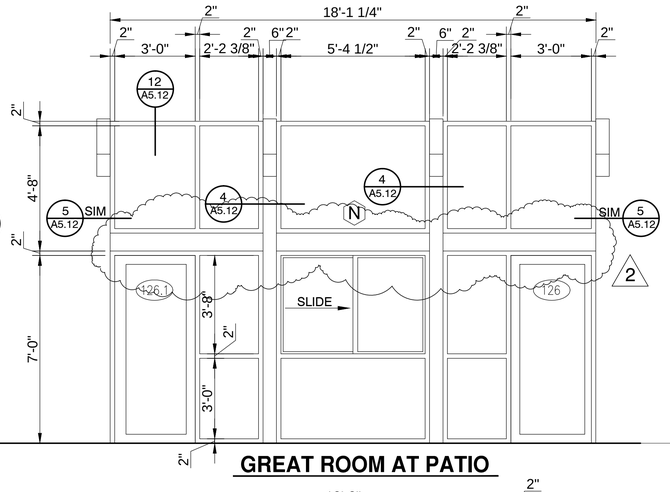
LOBBY / ENTRANCE



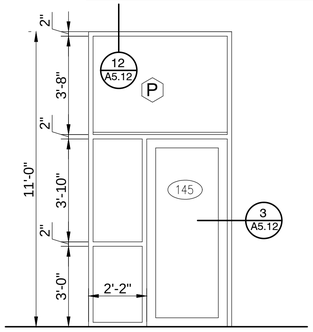


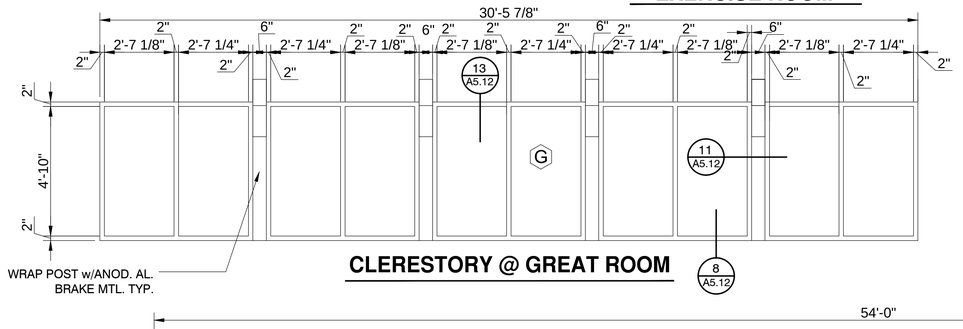


EXERCISE ROOM

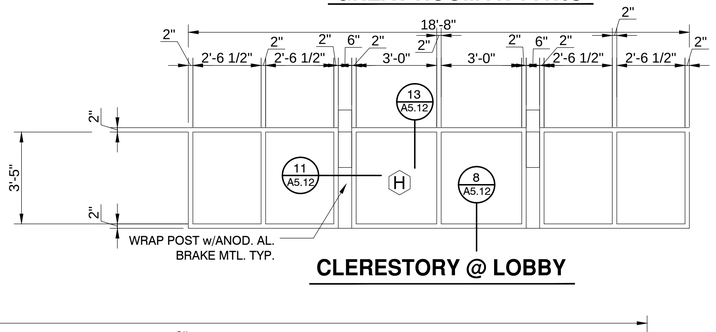


GREAT ROOM AT PATIO

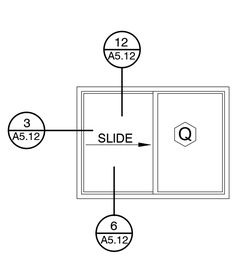


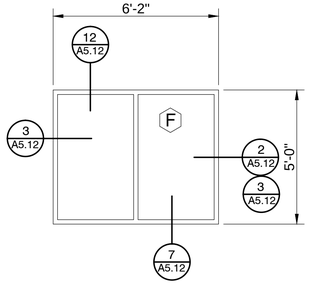


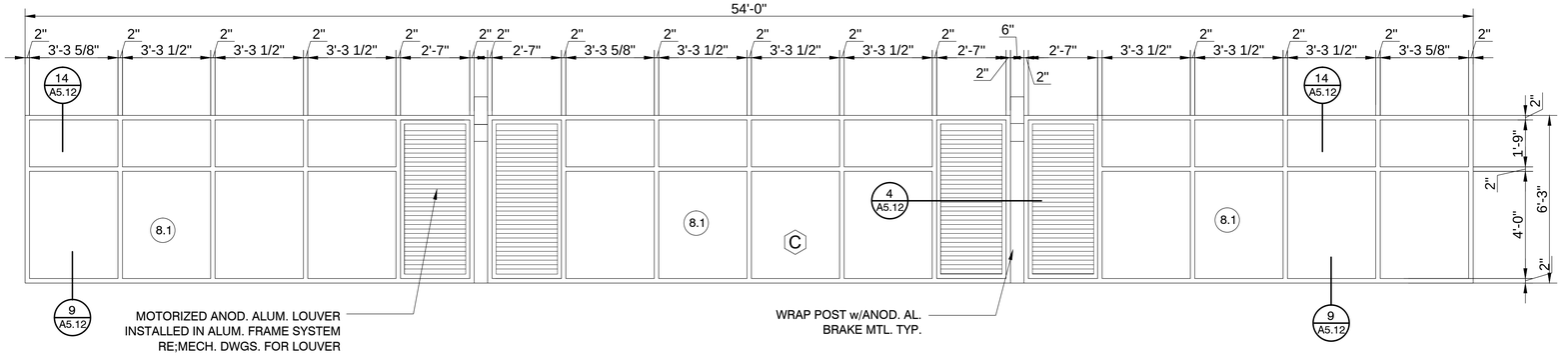
CLERESTORY @ GREAT ROOM



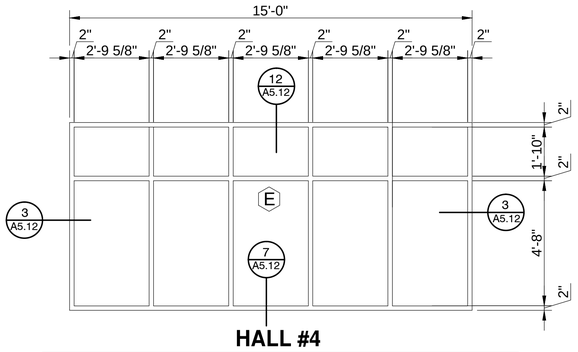
CLERESTORY @ LOBBY



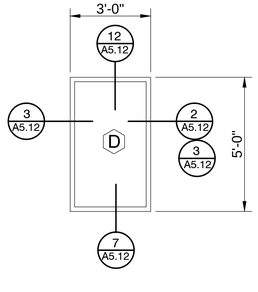


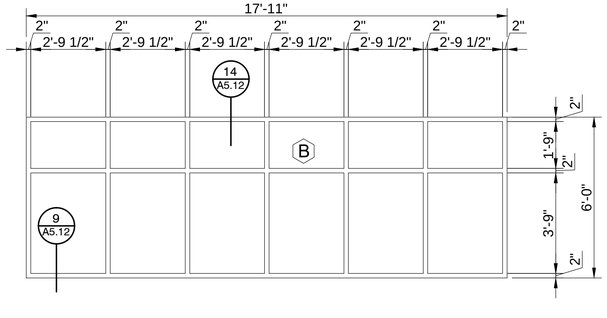


CLERESTORY @ APPARATUS ROOM - BAYS 2, 3, 4

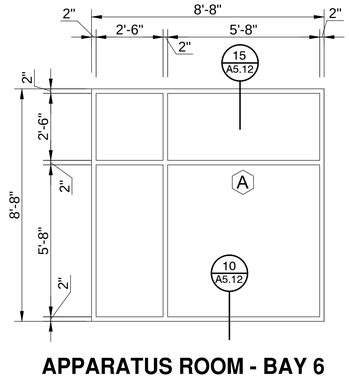


HALL #4





CLERESTORY @ APPARATUS ROOM - BAY 6



APPARATUS ROOM - BAY 6

WINDOW TYPES
3/8" = 1'-0"

ETC Engineers & Architects, Inc. No. C-462 Registered Architects Arkansas

Gerald Avery Arkansas Number 4544 State of Arkansas 5.6.2019

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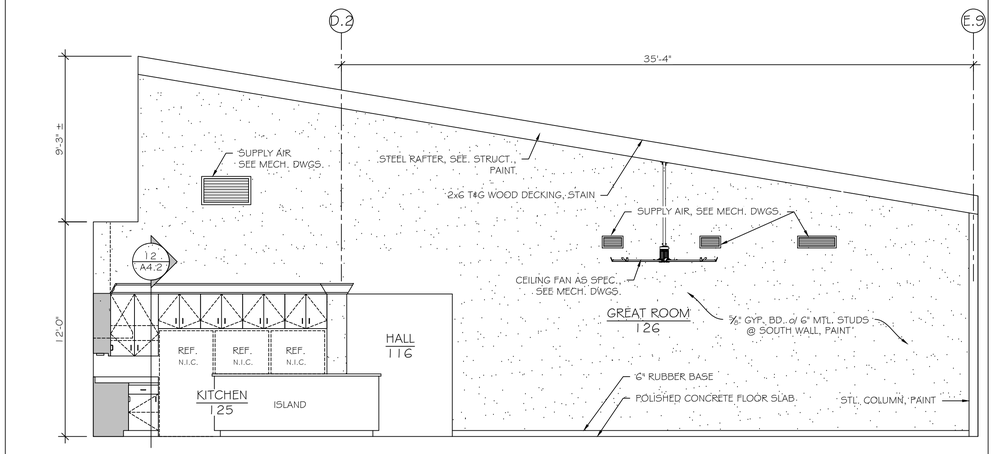
CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY ARKANSAS

WINDOW TYPES

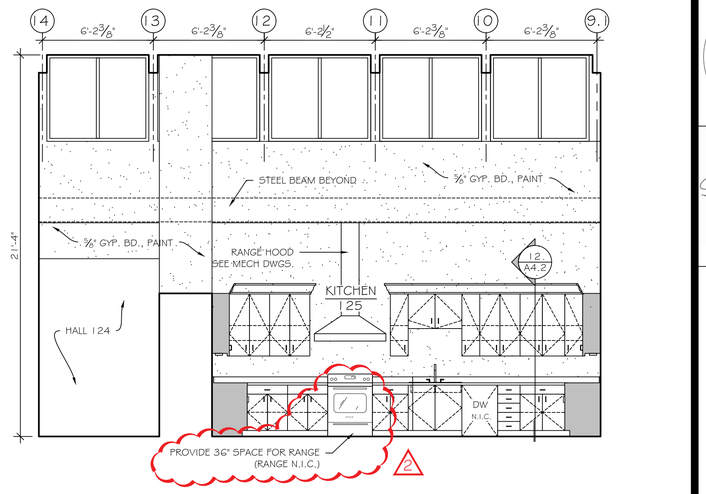
DATE	REVISION
05/30/2019	2

SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE: MAY 06, 2019
JOB NO: 150302CPARA
NAME: WINDOW TYPES
SHEET: A4.1



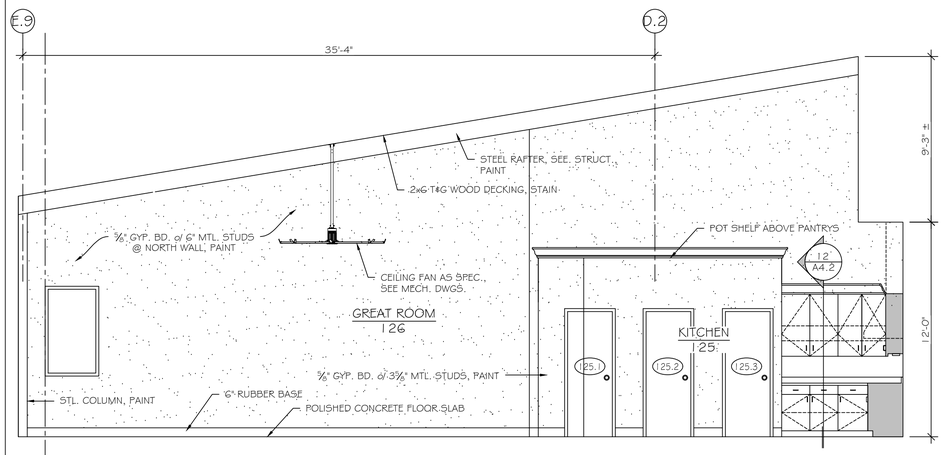
4 GREAT ROOM / KITCHEN - SOUTH INTERIOR ELEVATION

SCALE: ¼"= 1'-0"



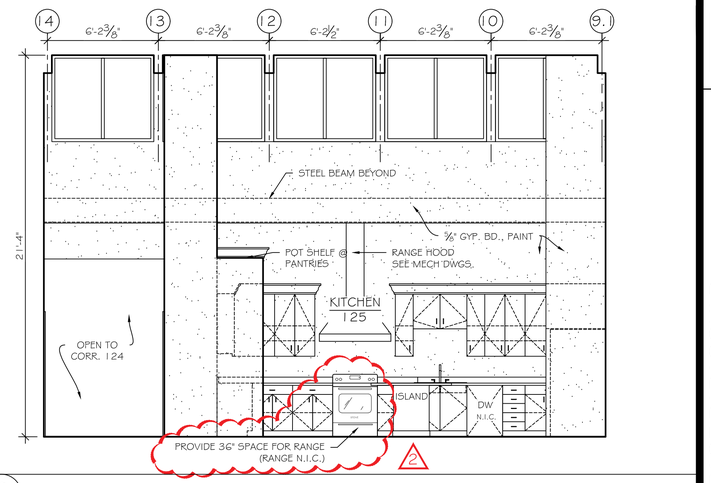
1 KITCHEN - EAST INTERIOR ELEVATION

SCALE: ¼"= 1'-0"



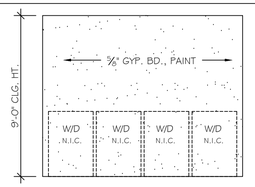
5 GREAT ROOM / KITCHEN - NORTH INTERIOR ELEVATION

SCALE: ¼"= 1'-0"



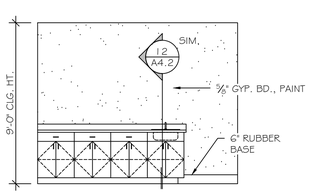
2 GREAT ROOM / KITCHEN - EAST INTERIOR ELEVATION

SCALE: ¼"= 1'-0"



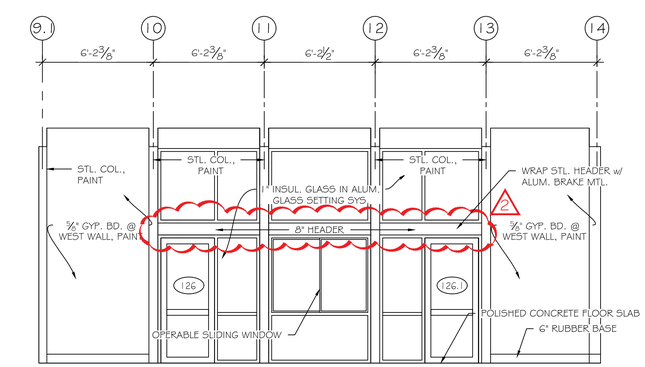
6 LAUNDRY 120 - EAST ELEV.

SCALE: ¼"= 1'-0"



7 LAUNDRY 120 - WEST ELEV.

SCALE: ¼"= 1'-0"



3 GREAT ROOM - WEST INTERIOR ELEVATION

SCALE: ¼"= 1'-0"

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McGehee Number 4544
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CITY OF PARAGOULD

FIRE STATION NO. 1

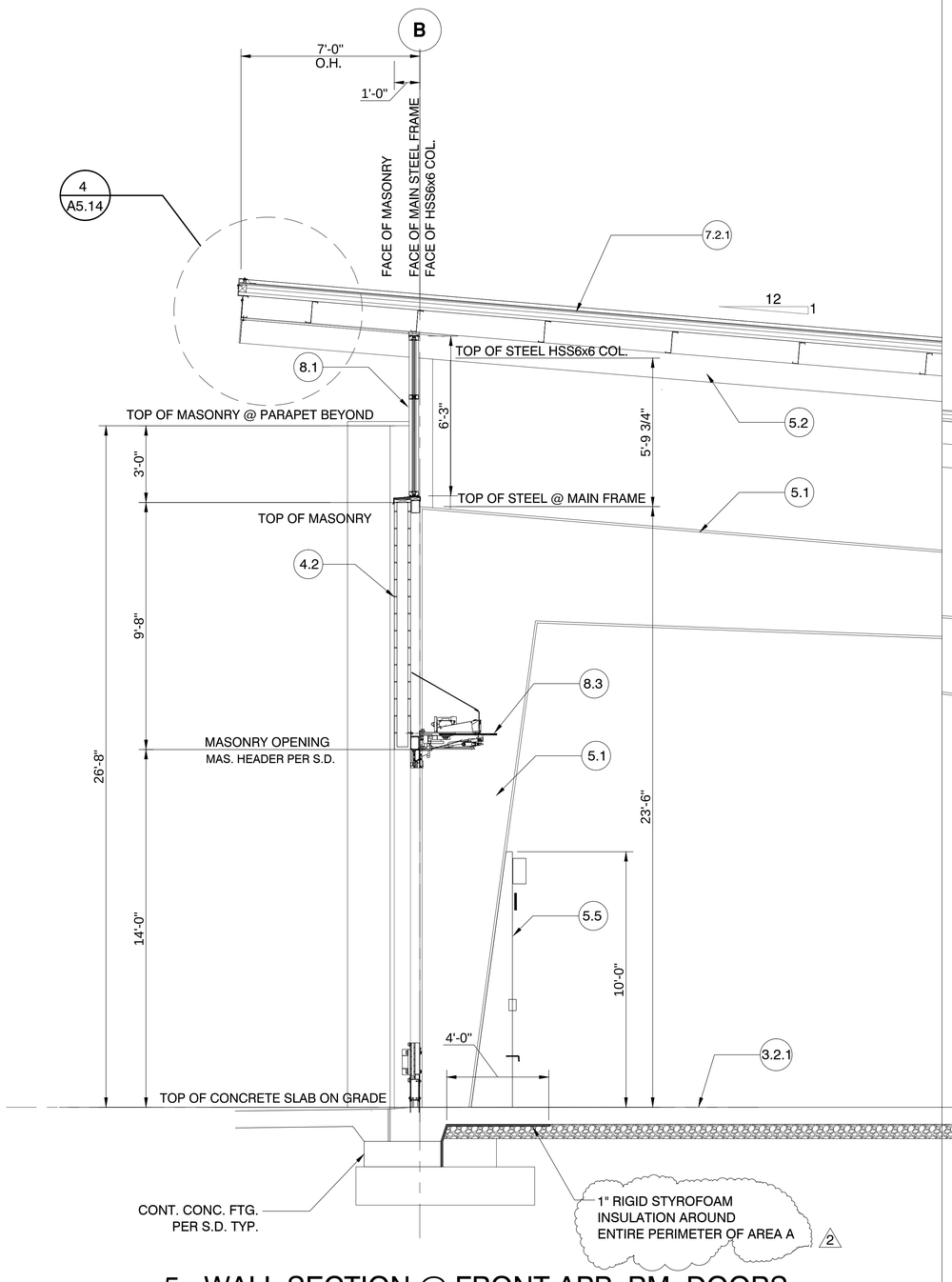
GREENE COUNTY ARKANSAS

INTERIOR ELEVATIONS

DATE	REVISION
05/30/19	2 ADDENDUM 2

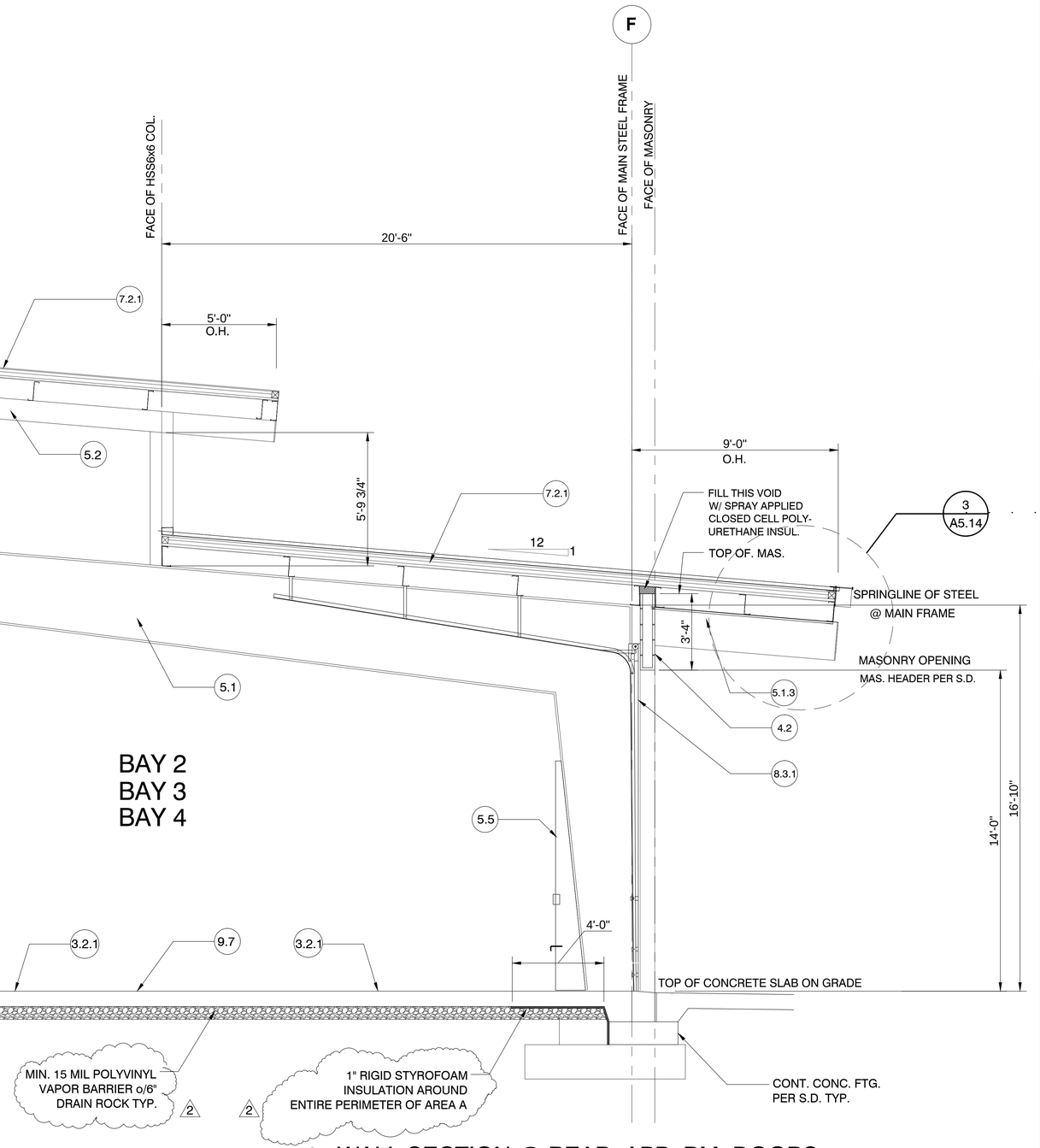
SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE: MAY 06, 2019
JOB NO: 150302CPARA
FILENAME:

SHEET A4.4



5 - WALL SECTION @ FRONT APP. RM. DOORS

3/8" = 1'-0"



4 - WALL SECTION @ REAR APP. RM. DOORS

3/8" = 1'-0"

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

REGISTERED ARCHITECT
GERALD AVERY
Registered Number 4544
STATE OF ARKANSAS
5-6-2019

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 • Phone (501) 375 - 1786 • FAX (501) 375 - 1277

CITY OF PARAGOULD
FIRE STATION NO. 1

GREENE COUNTY ARKANSAS

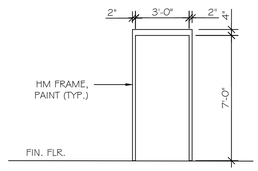
APPARATUS ROOM WALL DETAILS

DATE	REVISION
5/30/2019	2

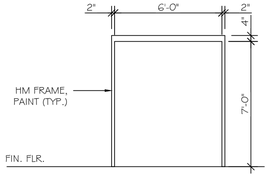
SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE
MAY 06, 2019
JOB NO: 150302CPARA
NAME: APPARATUS ROOM WALL DETAILS
SHEET
A5.4

DOOR FRAME TYPES

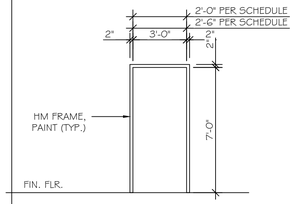
SCALE: ¼"= 1'-0"



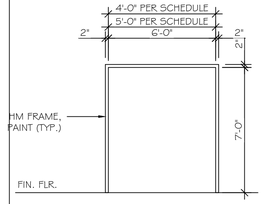
F1 HOLLOW METAL FRAME @ CMU WALL



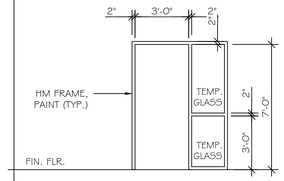
F2 HOLLOW METAL FRAME @ CMU WALL



F3 HOLLOW METAL FRAME @ MTL. STUD WALL



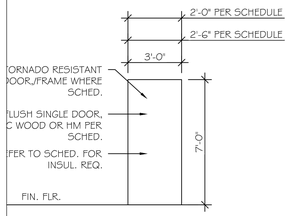
F4 HOLLOW METAL FRAME @ MTL. STUD WALL



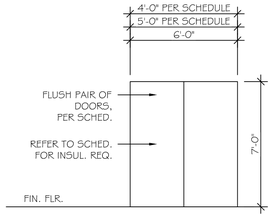
F5 HOLLOW METAL FRAME WITH SIDELIGHT

DOOR TYPES

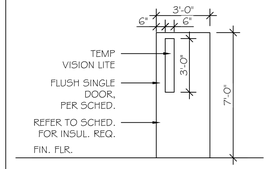
SCALE: ¼"= 1'-0"



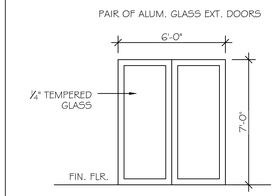
D1 SINGLE DOOR



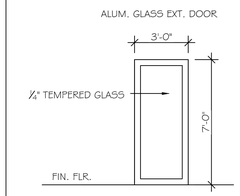
D2 PAIR OF DOORS



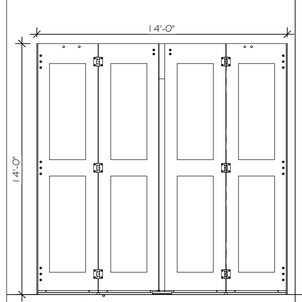
D3 HOLLOW METAL DOOR WITH SIDELIGHT



D4 PAIR OF ALUM. / GLASS DOORS

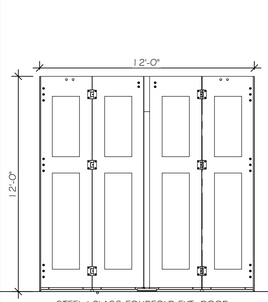


D5 SINGLE ALUM. GLASS DOOR



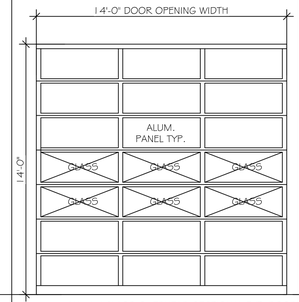
STEEL / GLASS FOURFOLD EXT. DOOR

D6 FOURFOLD DOOR



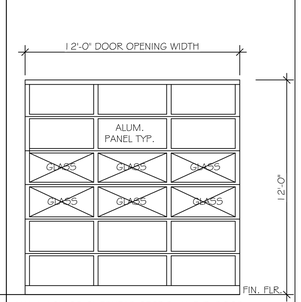
STEEL / GLASS FOURFOLD EXT. DOOR

D7 FOURFOLD DOOR



ALUM. / GLASS OVERHEAD SECTIONAL EXT. DOOR

D8 SECTIONAL OVERHEAD DOOR



ALUM. / GLASS OVERHEAD SECTIONAL EXT. DOOR

D9 SECTIONAL OVERHEAD DOOR

EXTERIOR ALUM. / GLASS EXIT DOOR

DOOR & FRAME SCHEDULE

DOOR MARK	WIDTH	HT.	MATERIAL	TYPE	FRAME TYPE	FRAME WIDTH	FIRE RATING	FRAME DETAILS HEAD	JAMB	SILL	HW. GRP NO.	FINISH	REMARKS
100.1	14'-0"	14'-0"	STEEL/GLASS	D6	MANF.		NA			NA	1.0	MANF.	FF300 BY DOOR ENGINEERING OR EQUAL
100.2	14'-0"	14'-0"	STEEL/GLASS	D6	MANF.		NA			NA	1.0	MANF.	FF300 BY DOOR ENGINEERING OR EQUAL
100.3	14'-0"	14'-0"	STEEL/GLASS	D6	MANF.		NA			NA	1.0	MANF.	FF300 BY DOOR ENGINEERING OR EQUAL
100.4	14'-0"	14'-0"	STEEL/GLASS	D6	MANF.		NA			NA	1.0	MANF.	FF300 BY DOOR ENGINEERING OR EQUAL
100.5	14'-0"	14'-0"	STEEL/GLASS	D6	MANF.		NA			NA	1.0	MANF.	FF300 BY DOOR ENGINEERING OR EQUAL
100.6	12'-0"	12'-0"	STEEL/GLASS	D7	MANF.		NA			NA	1.0	MANF.	FF300 BY DOOR ENGINEERING OR EQUAL
100.1R	14'-0"	14'-0"	ALUM/GLASS	D8	MANF.		NA		3 / A5.1	NA	2.0	MANF.	"OVERHEAD DOOR" MODEL 521 OR EQUAL w/RYK OPERATOR OR EQUAL
100.2R	14'-0"	14'-0"	ALUM/GLASS	D8	MANF.		NA		3 / A5.1	NA	2.0	MANF.	"OVERHEAD DOOR" MODEL 521 OR EQUAL w/RYK OPERATOR OR EQUAL
100.3R	14'-0"	14'-0"	ALUM/GLASS	D8	MANF.		NA		3 / A5.1	NA	2.0	MANF.	"OVERHEAD DOOR" MODEL 521 OR EQUAL w/RYK OPERATOR OR EQUAL
100.4R	14'-0"	14'-0"	ALUM/GLASS	D8	MANF.		NA		3 / A5.1	NA	2.0	MANF.	"OVERHEAD DOOR" MODEL 521 OR EQUAL w/RYK OPERATOR OR EQUAL
100.5R	14'-0"	14'-0"	ALUM/GLASS	D8	MANF.		NA		3 / A5.1	NA	2.0	MANF.	"OVERHEAD DOOR" MODEL 521 OR EQUAL w/RYK OPERATOR OR EQUAL
100.6R	12'-0"	12'-0"	ALUM/GLASS	D9	MANF.		NA		3 / A5.1	NA	2.0	MANF.	"OVERHEAD DOOR" MODEL 521 OR EQUAL w/RYK OPERATOR OR EQUAL
100.7	3'-0"	7'-0"	INSUL. H.M.	D3	F1	7¾"	NA	4 / A5.1	5 / A5.1	15 / A5.1	3.0	PAINT	EXIT DEVICE TO EXTERIOR
100.8	3'-0"	7'-0"	INSUL. H.M.	D3	F1	7¾"	NA	4 / A5.1	5 / A5.1	15 / A5.1	3.0	PAINT	EXIT DEVICE TO EXTERIOR
100.9	3'-0"	7'-0"	INSUL. H.M.	D3	F1	7¾"	20 MIN	4 / A5.1	5 / A5.1	15 / A5.1 SIM		PAINT	20 MIN FIRE DOOR w/EXIT DEVICE TO APP. RM
100.10	3'-0"	7'-0"	INSUL. H.M.	D3	F1	7¾"	NA	4 / A5.1	5 / A5.1	15 / A5.1 SIM		PAINT	EXIT DEVICE INTO APP. RM.
101 *	3'-0"	7'-0"	INSUL. H.M.	D3	F1	7¾"	NA	4 / A5.1	5 / A5.1	15 / A5.1	3.0	PAINT	EXIT DEVICE TO EXTERIOR
103	3'-0"	7'-0"	H.M.	D1	F1	7¾"	NA	4 / A5.1	5 / A5.1	NA	4.0	PAINT	
104	3'-0"	7'-0"	H.M.	D1	F1	7¾"	NA	4 / A5.1	5 / A5.1	NA	4.0	PAINT	
105	3'-0"	7'-0"	H.M.	D1	F1	7¾"	NA	4 / A5.1	5 / A5.1	NA	4.0	PAINT	
106 *	3'-0"	7'-0"	INSUL. H.M.	D3	F1	7¾"	NA	4 / A5.1	5 / A5.1	15 / A5.1	3.0	PAINT	EXIT DEVICE TO EXTERIOR
107	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	10.0	FACTORY STAIN	
108	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	10.0	FACTORY STAIN	
109	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	10.0	FACTORY STAIN	
110	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	10.0	FACTORY STAIN	
111	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	10.0	FACTORY STAIN	
112	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	10.0	FACTORY STAIN	
113	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	10.0	FACTORY STAIN	
114	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	10.0	FACTORY STAIN	
115	3'-0"	7'-0"	INSUL. H.M.	D3	F5	7¾"	NA	9 / A5.1	10 / A5.1	15 / A5.1		PAINT	EXTERIOR EXIT DOOR w/GLASS SIDE LITE
117	3'-0"	7'-0"	H.M.	D1	F1	7¾"	20 MIN	4 / A5.1	5 / A5.1	15 / A5.1 SIM	9.0	PAINT	20 MIN FIRE DOOR
117.1	3'-0"	7'-0"	H.M.	D1	F1	7¾"	NA	4 / A5.1	5 / A5.1	15 / A5.1 SIM	9.0	PAINT	
118	5'-0"	7'-0"	S.C. WOOD	D2	F4	8¾"	NA	8 / A5.1	7 / A5.1 SIM	NA		FACTORY STAIN	PAIR OF 2'-6" x 7'-0" DOORS
119	2'-6"	7'-0"	S.C. WOOD	D1	F3	8¾"	NA	8 / A5.1	7 / A5.1 SIM	NA	12.0	FACTORY STAIN	
120	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA		FACTORY STAIN	
121	3'-0"	7'-0"	INSUL. H.M.	D1	F1	7¾"	NA	4 / A5.1	5 / A5.1	NA	3.0	PAINT	
121.1	3'-0"	7'-0"	INSUL. H.M.	D1	F1	7¾"	NA	4 / A5.1	5 / A5.1	15 / A5.1		PAINT	
122	3'-0"	7'-0"	INSUL. H.M.	D1	F1	11¾"	NA	1 / A5.1	2 / A5.1	15 / A5.1 SIM	5.0	PAINT	TORNADO RESIST. DOOR/FRAME/HARDWARE SYS
123	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	11.0	FACTORY STAIN	
124	3'-0"	7'-0"	S.C. WOOD	D1	F3	8¾"	20 MIN	8 / A5.1	7 / A5.1 SIM	15 / A5.1 SIM		FACTORY STAIN	20 MIN FIRE DOOR
125.1	2'-6"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA		FACTORY STAIN	
125.2	2'-6"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	12.0	FACTORY STAIN	
125.3	2'-6"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	12.0	FACTORY STAIN	
126	3'-0"	7'-0"	ALUM./GL	D5	MANF.	4½"	NA	13 / A5.1	13 / A5.1 SIM	14 / A5.1	7.0	ANODIZED ALUMINUM	EXTERIOR ALUM./GLASS EXIT DOOR
126.1 *	3'-0"	7'-0"	ALUM./GL	D5	MANF.	4½"	NA	13 / A5.1	13 / A5.1 SIM	14 / A5.1	7.0	ANODIZED ALUMINUM	EXTERIOR ALUM./GLASS EXIT DOOR
126.2	3'-0"	7'-0"	S.C. WOOD	D1	F3	8¾"	20 MIN	8 / A5.1	7 / A5.1 SIM	15 / A5.1 SIM		FACTORY STAIN	20 MIN FIRE DOOR
127	5'-0"	7'-0"	S.C. WOOD	D2	F4	5¾"	NA	6 / A5.1	7 / A5.1	NA		FACTORY STAIN	
128	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	11.0	FACTORY STAIN	
129	5'-0"	7'-0"	S.C. WOOD	D2	F4	5¾"	NA	6 / A5.1	7 / A5.1	NA		FACTORY STAIN	
130	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	12.0	FACTORY STAIN	
131 *	6'-0"	7'-0"	ALUM./GL	D4	MANF.	4½"	NA	13 / A5.1	13 / A5.1 SIM	14 / A5.1	6.0	ANODIZED ALUMINUM	EXTERIOR EXIT DOOR (PAIR)
131.1 *	3'-0"	7'-0"	ALUM./GL	D5	MANF.	4½"	NA	13 / A5.1	13 / A5.1 SIM	NA	7.0	ANODIZED ALUMINUM	INTERIOR ALUM. / GLASS EXIT DOOR
131.2 *	3'-0"	7'-0"	ALUM./GL	D5	MANF.	4½"	NA	13 / A5.1	13 / A5.1 SIM	NA	7.0	ANODIZED ALUMINUM	INTERIOR ALUM. / GLASS EXIT DOOR
131.3 *	3'-0"	7'-0"	S.C. WOOD	D1	F3	8¾"	NA	8 / A5.1	7 / A5.1 SIM	NA		FACTORY STAIN	INTERIOR EXIT DOOR
132 *	3'-0"	7'-0"	S.C. WOOD	D1	F3	8¾"	NA	8 / A5.1	7 / A5.1 SIM	NA		FACTORY STAIN	
132.1 *	3'-0"	7'-0"	ALUM./GL	D5	MANF.	4½"	NA	13 / A5.1	13 / A5.1 SIM	14 / A5.1	7.0	ANODIZED ALUMINUM	EXTERIOR ALUM. / GLASS EXIT DOOR
133	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	8.0	FACTORY STAIN	
133.1	2'-6"	7'-0"	S.C. WOOD	D3	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	12.0	FACTORY STAIN	
134	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	8.0	FACTORY STAIN	
135	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	12.0	FACTORY STAIN	
137	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	12.0	FACTORY STAIN	
138	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	11.0	FACTORY STAIN	
138.1	4'-0"	7'-0"	S.C. WOOD	D2	F4	5¾"	NA	6 / A5.1	7 / A5.1	NA		FACTORY STAIN	
139	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	11.0	FACTORY STAIN	
139.1	4'-0"	7'-0"	S.C. WOOD	D2	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	11.0	FACTORY STAIN	
140	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	11.0	FACTORY STAIN	
141	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA		FACTORY STAIN	
142 *	3'-0"	7'-0"	ALUM./GL	D5	MANF.	4½"	NA	13 / A5.1	13 / A5.1 SIM	NA	7.0	ANODIZED ALUMINUM	INTERIOR ALUM. / GLASS EXIT DOOR
143 *	3'-0"	7'-0"	S.C. WOOD	D3	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA		FACTORY STAIN	INTERIOR EXIT DOOR
144	3'-0"	7'-0"	S.C. WOOD	D1	F3	5¾"	NA	6 / A5.1	7 / A5.1	NA	12.0	FACTORY STAIN	
145 *	3'-0"	7'-0"	ALUM./GL	D5	MANF.	4½"	NA	13 / A5.1	13 / A5.1 SIM	14 / A5.1	7.0	ANODIZED ALUMINUM	EXTERIOR ALUM. / GLASS EXIT DOOR
200	3'-0"	7'-0"	INSUL. H.M.	D1	F1	7¾"	NA	4 / A5.1	5 / A5.1	NA		PAINT	STORAGE 201 - MEZZANINE LEVEL
300	3'-0"	7'-0"	INSUL. H.M.	D1	F1	7¾"	NA	4 / A5.1	5 / A5.1	15 / A5.1 SIM		PAINT	ROOF ACCESS

* DOOR SHALL HAVE A MAGNETIC LOCK WITH CONTROLLED ACCESS. MAGNETIC LOCKS AND INSTALLATION SHALL BE BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND PROVIDE A 1" CONDUIT TO A SINGLE GANG BOX ADJACENT TO THE DOOR. SEE A4.0 FOR LOCATIONS.

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

REGISTERED ARCHITECT
GERALD L. AVERY
Member Number 4544
STATE OF ARKANSAS
5/6/2019

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1788 - FAX (501) 375 - 1277

CITY OF PARAGOULD
GREENE COUNTY

FIRE STATION NO. 1

ARKANSAS

DOOR TYPES & SCHEDULE

DATE	REVISION
05/30/19	2 ADDENDUM 2

SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE: MAY 06, 2019
JOB NO: 150302CPARA
FILENAME:

SHEET A6.0

MATERIAL REFERENCE KEY

REF. NO.	ITEM	MANUFACTURER	REMARKS
1	EPOXY FLOOR COATING WITH APPLIED URETHANE SEALER		*1
2	POLISHED CONCRETE WITH APPLIED URETHANE SEALER		*2
2A	TROWELED CONCRETE SLAB WITH APPLIED URETHANE SEALER		*2A
3	CARPET-COMMERCIAL BROADLOOM	MOHAWK GROUP OR EQUAL	*3
4	6" COVED RESILIENT BASE.	JOHNSONITE OR EQUAL	*4
5	CERAMIC TILE WAINSCOT o/TILE BACKER BOARD UP TO 5'-0"	DALTILE OR EQUAL	*5
5A	CERAMIC TILE o/TILE BACKER BOARD FULL HEIGHT	DALTILE OR EQUAL	*5
6	PRE-PAINTED 26 GA. METAL "R" TYPE PANEL INSTALLED OVER GIRTS		*6
7	PAINTED INTERIOR CMU WITH LATEX TOPCOAT		*7
7A	PAINTED INTERIOR CMU WITH EPOXY TOPCOAT		*7A
8	GYPSUM BOARD WITH LIGHT TEXTURE FIN.-PAINT		*8
9	OPEN TO STRUCTURE - NO FINISH WORK		*9
10	STRUCTURAL BRICK MASONRY		*10
11	2 x 2 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM	ARMSTRONG CEILINGS OR EQUAL	*11
12	GALV. METAL DECKING - UNFINISHED		*12
13	T&G SOLID WOOD DECKING w/STAIN PER MANF.		*13

NOTES:

1. TWO-PART EPOXY FLOOR COATING SYSTEM SUCH AS "EPOXY 335" w/"645 URETHANE" TOPCOAT OR EQUAL COMMERCIAL FLOOR COATING SYSTEM o/CONCRETE S.O.G. TWO COLORS: COLOR 1: FIELD & COLOR 2: NO TRAFFIC/SAFETY ZONES. APPLY EPOXY COATING TO A MIN. THICKNESS OF 8 MILS DFT.
2. BEFORE POLISHING TREAT THE ENTIRE CONCRETE SLAB (INCLUDING THOSE AREAS NOT TO BE POLISHED) WITH A LITHIUM SILICATE/SILICONATE CONCRETE DENSIFIER. POLISH THOSE AREAS INDICATED TO BE POLISHED TO LEVEL 2 PER THE CONCRETE POLISHING COUNCIL. AFTER POLISHING APPLY A TOP COAT OF "URETHANE 645" TO THE ENTIRE SLAB (INCLUDING THOSE AREAS THAT ARE NOT POLISHED).

2A. TREAT SLAB WITH A LITHIUM SILICATE/SILICONATE CONCRETE DENSIFIER. FINISH WITH A TOPCOAT OF "URETHANE 645"

3. MOHAWK GROUP ARTIST SERIES OR EQUAL BROADLOOM CARPET

4. 6" RESILIENT COVE BASE BY JOHNSONITE OR EQUAL.

5. CERAMIC TILE SHALL BE 6x6 WALL TILE BY DALTILE OR EQUAL-MANF. STANDARD COLOR w/BULLNOSE AT TOP TERMINATION

6. 26 GA PAINTED METAL 'R' TYPE LINER PANEL INSTALLED OVER STEEL GIRTS

7. PRIME CMU WALLS WITH ONE COAT OF LATEX BLOCK FILLER PRIMER. APPLY TWO TOP COATS OF LATEX SEMI-GLOSS 4MILS/DFT PER COAT.

7A. PRIME CMU WALLS WITH ONE COAT OF LATEX BLOCK FILLER PRIMER. APPLY TWO TOP COATS OF TILE CLAD II EPOXY 4.0 MILS/DFT/ COAT.

8. 5/8" GYPSUM BOARD DRYWALL WITH LIGHT TEXTURE (ORANGE PEEL) FINISH - PAINT WITH LATEX PRIMER AND 2-TOPCOATS INTERIOR EGG SHELL LATEX

9. THE APPARATUS ROOM SHALL BE OPEN TO THE STRUCTURE AND GALV. METAL DECKING. ALL STRUCTURAL STEEL FRAMES, BEAMS, & PURLINS SHALL HAVE A SHOP APPLIED PRIMER COAT OF RED OXIDE. AFTER ERECTION CLEAN THE STEEL AND TOUCH-UP THE SHOP APPLIED PRIMER COAT TO COVER ALL MARKS AND ABRASIONS INFLICTED DURING THE ERECTION PROCESS.

10. STRUCTURAL BRICK MASONRY APPLY TWO COATS OF PENETRATING MASONRY SEALANT TO THE EXTERIOR. NO WORK ON THE INTERIOR

11. 2 x 2 SUSPENDED ACOUSTICAL CEILING SYSTEM - ARMSTRONG CEILING BRIGHTON SERIES OR EQUAL

12. GALV. METAL DECKING - NO WORK

13. T&G SOLID WOOD DECKING SHALL HAVE A HAND WIPED STAIN FINISH USING A PENETRATING OIL BASED STAIN/SEALER

FINISH SCHEDULE

ROOM NUMBER & NAME	FLOOR	BASE	WALLS N	WALLS E	WALLS S	WALLS W	CLG.	CLG. HT.	REMARKS
100 APPARATUS ROOM	1	NA	7	10	6/10	10	12	VARIES	SEE NOTE - 9.
101 TOOLS	1	NA	7	7	7	7	12	10' TO DECK	SEE NOTE - 9.
102 HOSE DRYING	1	NA	7	7	7	7	12	10' TO DECK	SEE NOTE - 9.
103 MECHANICAL	1	NA	7	7	7	7	12	10' TO DECK	SEE NOTE - 9.
104 LAUNDRY	1	NA	7	7	7	7	12	10' TO DECK	SEE NOTE - 9.
105 TURNOUT	1	NA	7	10	7	7	12	10' TO DECK	SEE NOTE - 9.
106 SYSTEM CASCADE / SCBA STOR.	1	NA	10	10	10	10	12	10' TO DECK	SEE NOTE - 9.
107 DORM 1	2A	4	8	8	8	8	11	9' /VARIES	SEE BUILDING SECTION
108 DORM 2	2A	4	8	8	8	8	11	9' /VARIES	SEE BUILDING SECTION
109 BATH #1	2	NA	8	5A	5A	5A	8	9'	
110 BATH #2	2	NA	5A	5A	5A	8	8	9'	
111 DORM 3	2A	4	8	8	8	8	11	9'	
112 DORM 4	2A	4	8	8	8	8	11	9'	
113 DORM 5	2A	4	8	8	8	8	11	9'	
114 DORM 6	2A	4	8	8	8	8	11	9'	
115 HALL 1	2	4	8	8	8	8	11	9'	
116 HALL 2	2	4	8	8	8	8	11	10'	
116.1 HALL 3	2	4	8	8	8	8	8	10'	
117 BATH #3	1	NA	7A	7A	7A	7A	8	9'	
118 JANITOR	2A	4	8	8	8	8	8	9'	
119 STORAGE	2A	4	8	8	8	8	8	9'	
120 LAUNDRY #2	2A	4	8	8	8	8	11	9'	
121 ELECTRICAL	2A	NA	7	7	7	7	12	VARIES	
122 WATCH / SAFE ROOM	3	4	8	8	8	8	11	10'	
123 CAPTAIN	3	4	8	8	8	8	11	10'	
124 HALL 4	2	4	8	8	8	8	11	11'	
125 KITCHEN	2	4	8	8	8	NA	13	VARIES	T & G WOOD CEILING
125.1 PANTRY #1	2A	4	8	8	8	8	8	9'	
125.2 PANTRY #2	2A	4	8	8	8	8	8	9'	
125.3 PANTRY #3	2A	4	8	8	8	8	8	9'	
126 GREAT ROOM	2	4	NA	8	8	8	13	VARIES	T & G WOOD CEILING
127 STORAGE	2A	4	8	8	8	8	8	9'	
128 COMPUTER SERVER / COPY MACH.	3	4	8	8	8	8	11	10'	
129 STORAGE	2A	4	8	8	8	8	8	9'	
130 STORAGE	2A	4	8	8	8	8	12	VARIES	NO CLG. - OPEN TO STRUCTURE
131 LOBBY	2	4	8	8	8	8	13	VARIES	T & G WOOD CEILING
132 EXERCISE	2A	4	8	8	8	8	12/13	VARIES	OPEN TO STRUC. (ONE PART) + T & G WOOD
133 MENS	2	NA	5/8	5/8	5/8	5/8	8	10'	
133.1 STORAGE	2A	4	8	8	8	8	8	10'	
134 WOMENS	2	NA	5/8	5/8	5/8	5/8	8	10'	
135 STORAGE	2A	4	8	8	8	8	8	10'	
136 VESTIBULE	2	4	8	8	8	8	11	10'	
137 JANITOR / ELECTRICAL	2A	4	8	8	8	8	8	10'	
138 FIRE MARSHALL	3	4	8	8	8	8	11	10'	
139 CHIEF	3	4	8	8	8	8	11	10'	
140 OFFICE	3	4	8	8	8	8	11	10'	
141 ASST. CHIEF	3	4	8	8	8	8	11	10'	
142 HALL #5	2	4	8	8	8	8	11	10'	
143 TRAINING	3	4	8	8	8	8	11	VARIES	SLOPED ACT CLG. SYSTEM
144 A/V EQUIPMENT	3	4	8	8	8	8	11	VARIES	SLOPED ACT CLG. SYSTEM
145 HALLWAY #6	2	4	8	8	8	8	11	11'	
200 MEZZANINE	2A	NA	6/7	10	7	7	12	VARIES	NO CLG. - OPEN TO STRUCTURE
201 STORAGE	2A	NA	10	10	10	10	12	VARIES	NO CLG. - OPEN TO STRUCTURE

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

REGISTERED ARCHITECT
GERALD AVERY
McGehee Number 4544
STATE OF ARKANSAS
5/6/2019

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
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CITY OF PARAGOULD
FIRE STATION NO. 1
GREENE COUNTY
ARKANSAS

FINISH SCHEDULE

DATE	REVISION
05/30/19	2. ADDENDUM 2

SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA
DATE: MAY 06, 2019
JOB NO: 150302CPARA
FILENAME:
SHEET: A6.2