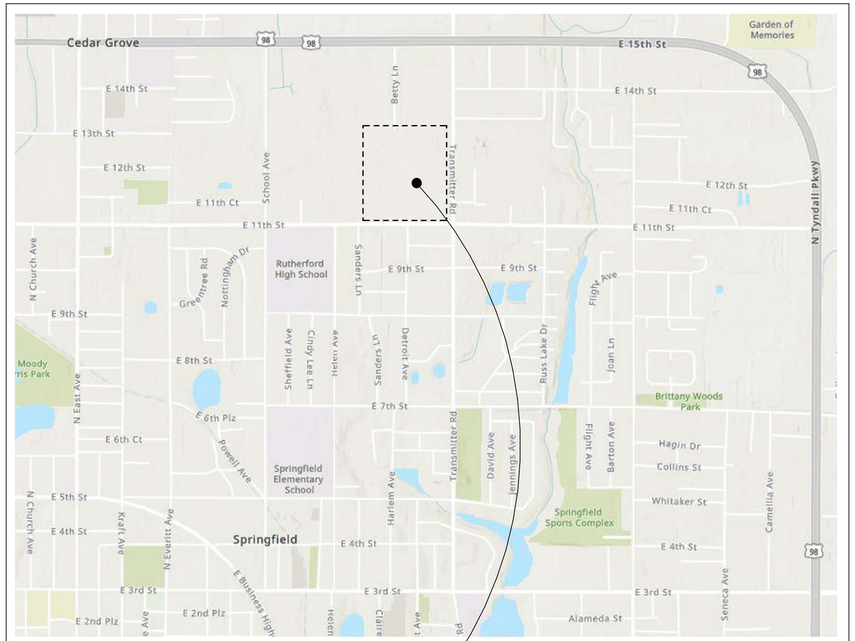
SPRINGFIELD CITY COMPLEX

1141 TRANSMITTER ROAD
SPRINGFIELD, FLORIDA 32401

VICINITY MAP



PROJECT SITE

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75 South "F" Street
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STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL & FIRE SPRINKLERS

VOLUME - II

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MOTT MACDONALD
Architects AA - C000035
Engineers EB - 0000795
Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2022
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
PROJECT ARCHITECT: T. JARMAN
PROJECT MANAGER: Approver
Mott MacDonald PROJECT NO: 502100062-005

ISSUED FOR BIDS-AUGUST 2024

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

TITLE SHEET - VOLUME - II

SHEET NUMBER:

G-01.

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 12:49:11 PM

GENERAL AND ARCHITECTURAL SHEETS

Mott MacDonald
1022 West 23rd Street
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Certificate of Authorization #AA-C0000035
A.O.R.: Thomas A. Jarman, R.A. #AR0016110

THE ABOVE NAMED REGISTERED ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G1-16.005, F.A.C.

SHEET NUMBERS:

G-01	A1-00	A2-00	A2-80	A3-42	A4-21	A6-03
G-01A	A1-01	A2-01	A2-81	A3-43	A4-30	A6-04
G-02	A1-10	A2-10	A3-00	A3-44	A4-31	A6-05
G-03	A1-11	A2-11	A3-01	A3-45	A4-32	A6-06
G-04	A1-12	A2-12	A3-10	A3-50	A4-35	A6-07
G-05	A1-13	A2-13	A3-11	A3-60	A4-36	A7-01
G-06	A1-14	A2-14	A3-12	A3-70	A4-40	A7-02
G-07	A1-20	A2-20	A3-13	A3-80	A4-41	A7-03
G-08	A1-30	A2-21	A3-14	A3-81	A4-42	A8-01
G-09	A1-31	A2-30	A3-20	A4-00	A4-43	A8-02
G-10	A1-35	A2-31	A3-21	A4-01	A4-50	
G-11	A1-36	A2-35	A3-30	A4-10	A4-60	
	A1-40	A2-36	A3-31	A4-11	A4-61	
	A1-41	A2-40	A3-32	A4-12	A4-70	
	A1-42	A2-41	A3-33	A4-13	A4-80	
	A1-43	A2-42	A3-35	A4-14	A4-81	
	A1-50	A2-43	A3-36	A4-15	A4-82	
	A1-60	A2-50	A3-37	A4-16	A5-01	
	A1-70	A2-51	A3-38	A4-17	A5-02	
	A1-80	A2-60	A3-40	A4-18	A6-01	
	A1-81	A2-70	A3-41	A4-20	A6-02	

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CIVIL SHEETS

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E.O.R.: Amir Zafar, P.E. #56829

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NUMBERS:

.G0.1
.G1.0
.G2.0
C1.0
C1.1
C1.2
C1.3
C2.0
C2.1
C3.0
C3.1
C3.2
CD1.0
CD2.0
CD3.0
CD4.0
M1.0

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E.O.R.: Michael J. Tugwell, P.E. #84726

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NUMBERS:

S0-01	S2-23	S4-21
S0-02	S2-24	S4-22
S0-03	S2-25	S4-23
S1-10	S3-10	SD-30
S1-11	S3-11	SD-31
S1-12	S3-12	SD-40
S1-13	S3-13	SD-41
S1-14	S3-14	SD-50
S1-20	S3-20	SD-51
S1-21	S3-21	SD-52
S1-22	S3-22	
S1-23	S3-23	
S1-24	S3-24	
S2-10	S4-10	
S2-11	S4-11	
S2-12	S4-12	
S2-13	S4-13	
S2-14	S4-14	
S2-20	S4-15	
S2-21	S4-16	
S2-22	S4-20	

IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

PLUMBING, MECHANICAL AND FIRE SPRINKLER SHEETS

Peterson Engineering, Inc.
75 South "F" Street
Pensacola, Florida 32502
Certificate of Authorization (Registry) #3600
E.O.R.: Gregory D. Peterson, P.E. #34088

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NUMBERS:

P-00	M1-00	M2-61	M4-01	FX-4.4
P-01	M1-01	M2-62	M4-10	FX-4.5
P-02	M1-10	M2-63	M4-11	FX-4.6
P-03	M1-11	M3-00	M4-12	FX-4.7
P-04	M1-12	M3-01	M4-13	FX-4.8
P-05	M1-20	M3-10	M4-14	FX-4.9
P-06	M1-50	M3-11	M4-15	FX-4.10
P-07	M1-51	M3-12	M4-20	FX-4.11
P-08	M1-60	M3-20	M4-21	FX-4.12
P-09	M1-61	M3-21	M4-22	FX-4.13
P-10	M1-62	M3-50	M4-23	FX-0.1
P-11	M1-63	M3-51	M4-50	FX-1.1
P-12	M2-00	M3-52	M4-51	FX-2.1
P-13	M2-01	M3-60	M4-52	FX-3.1
P-14	M2-10	M3-61	M4-60	FX-4.1
P-15	M2-11	M3-62	M4-61	FX-4.2
P-16	M2-12	M3-63	M4-62	
P-17	M2-20	M3-64	M4-63	
P-18	M2-50	M3-65	M4-64	
	M2-51	M4-00	M4-65	
	M2-60			

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ELECTRICAL SHEETS

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E.O.R.: Andrew K. Gibbs, P.E. #77293

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NUMBERS:

E0.01	E3.20
E0.02	E3.30
E1.10	E3.40
E1.12	E3.50
E1.15	E3.60
E1.17	E4.15
E1.20	E4.17
E1.30	E4.20
E1.40	E4.21
E1.50	E4.30
E1.60	E4.31
E2.15	E4.40
E2.17	E4.41
E2.20	E4.50
E2.30	E4.51
E2.40	E4.60
E2.50	E9.01
E2.60	E9.02
E3.15	E9.03
E3.17	

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SPRINGFIELD CITY COMPLEX

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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2022
DESIGNED BY: B. COATE
DRAWN BY: AB, QG, JE
CHECKED BY: T. JARMAN
PROJECT ARCHITECT: T. JARMAN
PROJECT MANAGER: G. PITTS
Mott MacDonald PROJECT NO: 502100062-005

ISSUED FOR BIDS-AUGUST 2024

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

DIGITAL SIGNATURE SHEET

SHEET NUMBER:

G-01A

INDEX OF DRAWINGS

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SPRINGFIELD CITY COMPLEX

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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2022
DESIGNED BY: Designer
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PROJECT ARCHITECT: T. JARMAN
PROJECT MANAGER: Approver
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

INDEX OF DRAWINGS

SHEET NUMBER:

G-02

GENERAL

1. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 7th EDITION (2020).

2. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, ELECTRICAL, MECHANICAL, AND PLUMBING DOCUMENTS. USE THESE NOTES IN CONJUNCTION WITH THE SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.

3. COMPLY WITH REQUIREMENTS OF THE BUILDING CODE, OSHA, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.

4. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMITTING.

5. REVIEW ALL CONTRACT DOCUMENTS, DIMENSIONS AND SITE CONDITIONS AND COORDINATE WITH FIELD DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES IN WRITING TO ARCHITECT/ENGINEER. DO NOT CHANGE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.

6. ANY DISCREPANCIES, OMISSIONS OR VARIATIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING THE BIDDING PERIOD SHALL BE IMMEDIATELY COMMUNICATED IN WRITING TO THE ARCHITECT/ ENGINEER.

7. PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. EACH CONTRACTOR SHALL PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC. EACH CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.

8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES.

9. DO NOT SCALE DRAWINGS; USE DIMENSIONS.

10. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS IN STRUCTURE NOT SHOWN ON STRUCTURAL DRAWINGS.

11. DETAILS LABELED "TYPICAL DETAILS" OR "TYP" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT/ENGINEER.

12. BUILDING DESIGN LOADS AND CRITERIA :

A. MINIMUM FLOOR LIVE LOADS:

- OFFICES:	50 PSF
- FILING, STORAGE, & GARAGES:	125 PSF
- FIRE STATION APPARATUS BAYS:	400 PSF
- OTHER:	100 PSF

B. ROOF LOADS:

- LIVE LOAD:	20 PSF
- WIND PRESSURES:	REFER TO ROOF UPLIFT PLANS

C. PRE-ENGINEERED LIGHT GAUGE METAL TRUSS LOADS:

- MAX TOP CHORD DEAD LOAD:	15 PSF
- MAX BOTTOM CHORD DEAD LOAD:	8 PSF
- MIN TOP CHORD DEAD LOAD:	6 PSF
- MIN BOTTOM CHORD DEAD LOAD:	3 PSF
- MAX TOP CHORD LIVE LOAD:	20 PSF
- SEE ROOF PLAN FOR ADDITIONAL LOADS	

D. STEEL BAR JOIST LOADS:

- MAX TOP CHORD DEAD LOAD:	20 PSF
- MAX BOTTOM CHORD DEAD LOAD:	8 PSF
- MIN TOP CHORD DEAD LOAD:	10 PSF
- MIN BOTTOM CHORD DEAD LOAD:	3 PSF
- MAX TOP CHORD LIVE LOAD:	20 PSF
- SEE ROOF PLAN FOR ADDITIONAL LOADS	

E. WIND CRITERIA (FBC):
REFER TO WIND NOTE 13 BELOW

- BASIC WIND SPEED (V_{ULT}) :	134 MPH (RISK CAT II) 143 MPH (RISK CAT III) 146 MPH (RISK CAT IV)
- EXPOSURE :	B
- RISK CATEGORY :	II (PUBLIC WORKS) III (CITY HALL) IV (FIRE STATION & POLICE STATION)
- ENCLOSURE:	ENCLOSED* (BUILDINGS) SOLID WALLS / SIGNS (MONUMENT WALLS)

*TO ACHIEVE ENCLOSED CLASSIFICATION, ALL GLAZED OPENINGS SHALL BE IMPACT RESISTANT. ALL GLAZED OPENINGS WITHIN 30 FEET OF GRADE SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASTM E1996. ALL GLAZED OPENINGS LOCATED MORE THAN 30 FEET ABOVE GRADE SHALL MEET THE PROVISIONS OF THE SMALL MISSILE TEST OF ASTM E1996. ALL SECTIONAL DOORS, ROLLING DOORS, AND FLEXIBLE DOORS SHALL MEET THE REQUIRMENTS OF ANSI/DASMA 115. ALL LOUVERS LOCATED WITHIN 30FT OF GRADE SHALL MEET THE REQUIREMENTS OF AMCA 540.

F. SEISMIC CRITERIA :

- IMPORTANCE FACTOR :	1.00 (MONUMENT SIGNS) 1.25 (CITY HALL & PUBLIC WORKS) 1.50 (FIRE STATION & POLICE STATION)
- SPECTRAL RESPONSE ACCELERATION PARAMETERS	
- S_S :	0.066
- S_1 :	0.049
- S_{DS} :	0.071
- S_{D1} :	0.079
- SEISMIC RESPONSE COEFFICIENTS, C_S :	0.28 (MONUMENT SIGNS) 0.44 (CITY HALL & PUBLIC WORKS) 0.53 (FIRE STATION & POLICE STATION)
- SITE CLASS:	D
- SEISMIC DESIGN CATEGORY :	B (CITY HALL & PUBLIC WORKS) C (FIRE STATION & POLICE STATION)
- SEISMIC-FORCE-RESISTING SYSTEM :	ORDINARY REINFORCED MASONRY WALL
- MODIFICATION FACTOR, R :	2.00 U.O.N (2.50 MONUMENT WALLS)
- ANALYSIS PROCEDURE :	EQUIVALENT LATERAL FORCE PROCEDURE

13. ALL WIND FORCES SHALL BE DETERMINED ACCORDING TO THE PROVISIONS OF ASCE FOR THE MINIMUM WIND CRITERIA STATED IN BUILDING DESIGN CRITERIA, INCLUDE ALL APPROPRIATE SHAPE, HEIGHT, AND GUST FACTORS FOR THE MAIN WIND FORCE RESISTING SYSTEM AND CLADDING. TO CALCULATE THE MAXIMUM NET ROOF UPLIFT, USE 60% DEAD LOAD.

SHOP DRAWING SUBMITTAL

1. THE FOLLOWING REQUIREMENTS IN NO WAY REDUCE OR LIMIT ANY ADDITIONAL REQUIREMENTS OF THE SPECIFICATIONS.

2. REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. RESPONSIBILITY FOR THE CORRECTNESS OF DIMENSIONS, DETAILS, QUANTITIES, AND SAFETY DURING FABRICATION AND CONSTRUCTION SHALL REMAIN WITH THE CONTRACTOR.

3. CORRECTIONS AND/OR COMMENTS MADE ON THE SHOP DRAWINGS DURING REVIEW DO NOT IMPLY THAT ALL ERRORS AND OMISSIONS HAVE BEEN CORRECTED, NOR DOES IT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS.

SHOP DRAWING SUBMITTAL (CONTINUED)

4. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE. ONLY THOSE SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS TO BE SUBMITTED WILL BE REVIEWED. ALL OTHERS WILL BE RETURNED WITHOUT COMMENT.

5. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY ARE STAMPED "APPROVED" OR "APPROVED AS NOTED" BY THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER, WHICH EVER IS APPLICABLE.

6. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS TO THE CONTRACT DOCUMENTS AND OBTAIN ENGINEER'S WRITTEN APPROVAL BEFORE PROCEEDING.

7. IN ACCORDANCE WITH THE SPECIFICATIONS SUBMIT SHOP DRAWINGS CONSISTENT WITH THE FOLLOWING CRITERIA:

   A. ALLOW ADEQUATE TIME FOR TRANSIT AND PROCESSING BEFORE FABRICATION.
   B. SCHEDULE AND SUBMIT SHOP DRAWINGS FOR SPECIFIC COMPONENTS, SUCH AS COLUMNS, FOOTINGS, ETC., IN THEIR ENTIRETY. SHOP DRAWINGS FOR SIMILAR FLOORS SHALL BE SUBMITTED IN THE SAME PACKAGE.
   C. SUBMIT SHOP DRAWINGS IN A TIMELY MANNER, CONSISTENT WITH THE ABOVE REQUIREMENTS.

8. ALL CHANGES AND ADDITIONS MADE ON RESUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RESUBMITTALS MUST BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ ENGINEER REVIEW WILL BE LIMITED TO THE ITEMS CAUSING THE RESUBMITTAL.

9. DO NOT REPRODUCE THE CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS.

10. SHOP DRAWINGS NOT MEETING THE ABOVE CRITERIA OR SUBMITTED AFTER FABRICATION WILL NOT BE REVIEWED.

11. RESPONSIBILITIES OF DETAILERS AND FABRICATORS:

   A. GENERAL- SUBMIT SHOP DRAWINGS AND ANY OTHER SPECIAL INFORMATION NECESSARY FOR PROPER FABRICATION, ERECTION, AND PLACEMENT OF STRUCTURAL FABRICATIONS. INCLUDE PLANS, ELEVATIONS, AND SECTIONS. CLEARLY SHOW ANCHORAGES, CONNECTIONS, AND ACCESSORY ITEMS. THE DETAILER MUST INTERPRET THE CONTRACT DOCUMENTS AND CLEARLY CONVEY THIS INTERPRETATION TO THE FIELD IN THE FORM OF PLACING OR ERECTION DRAWINGS.

   B. CONCRETE REINFORCING DETAILER- PROVIDE PLACING DRAWINGS FOR FABRICATION AND PLACING OF REINFORCING STEEL. THESE DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: BAR LISTS, SCHEDULES, BENDING DETAILS, PLACING DETAILS, PLACING PLANS, AND PLACING ELEVATIONS.

   C. CLEARLY SHOW ELEVATIONS OF ALL BEARING AND SHEAR WALLS. INDICATE OPENINGS, DETAILS OF ALL REINFORCING WITH LOCATIONS OF SPLICES AND HOOKS, ALL CONTROL JOINTS, EXPANSION JOINTS, LINTELS, CONCRETE BOND BEAMS, AND PILASTERS. CLEARLY SHOW BEAM ELEVATIONS AND SECTIONS. INDICATE BAR LENGTHS, HOOKS, STIRRUP SPACING, LAP SPLICES, OFFSETS, AND LOCATION OF BARS WITH RESPECT TO ALL SUPPORTS.

   D. CLEARLY SHOW COLUMN ELEVATIONS AND SECTIONS. INDICATE DOWELS, OFFSETS, LAP SPLICES, AND TIES. PLAN SECTIONS OF ALL COLUMNS MUST CLEARLY BE SHOWN.

   E. CLEARLY SHOW ELEVATION, SECTIONS, AND DETAILS OF ALL BEAM TO COLUMN CONNECTIONS.

   F. CLEARLY SHOW FOUNDATION REINFORCING. INDICATE BAR LENGTHS, LOCATION AND SPLICES OF CONTINUOUS BARS, AND BAR SUPPORTS. CLEARLY SHOW LOCATIONS OF ALL DOWELS ON PLAN. INDICATE FOOTING STEP LOCATIONS AND PROVIDE DETAILS.

12. FOR ADDITIONAL CRITERIA APPLICABLE TO SHOP DRAWINGS REQUIRING ENGINEERING INPUT BY A SPECIALTY ENGINEER, REFER TO "SHOP DRAWING REQUIRING ENGINEERING INPUT BY SPECIALTY ENGINEER" GENERAL NOTE SECTION.

SHOP DRAWING REQUIRING ENGINEERING INPUT BY SPECIALTY ENGINEER

1. SPECIALTY ENGINEER:

   A. DEFINITION - A REGISTERED PROFESSIONAL ENGINEER IN THE STATE THE PROJECT IS LOCATED WHO SPECIALIZES IN AND WHO UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS PROJECT.

   B. SHALL BE:
      A. AN EMPLOYEE OR OFFICER OF A FABRICATOR.
      B. AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR.
      C. AN INDEPENDENT CONSULTANT RETAINED BY THE FABRICATOR OR HIS SUPPLIER.

2. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS WITH INPUT BY A SPECIALTY ENGINEER, BUT ARE NOT LIMITED TO: JOISTS, JOIST GIRDERS, SPECIAL JOIST, SHORING AND RESHORING, WINDOWS, STOREFRONT, CURTAIN WALL SYSTEMS, DOORS, ROOF SYSTEMS, PRE-ENGINEERED STAIRS, LOUVERS, SIDING AND ANY EXTERIOR ANCILLARY STRUCTURES.

3. THE SPECIALTY ENGINEER OR MANUFACTURER SHALL DESIGN, PROVIDE, AND INSTALL THEIR COMPONENTS AND THE COMPONENT CONNECTIONS TO THE PRIMARY STRUCTURE PER THE WIND CRITERIA STATED IN THESE NOTES OR THE CURRENT GOVERNING BUILDING CODES, WHICHEVER IS MORE STRINGENT.

4. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

5. SHOP DRAWINGS AND CALCULATIONS MUST BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE SPECIALTY ENGINEER.

6. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE SEAL, DATE AND SIGNATURE OF THE SPECIALTY ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE EMBOSSED SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER AS AN INDICATION THAT HE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. SEPIAS THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED COPY FOR RECORD.

7. CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A SPECIALTY ENGINEER.

8. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:
   A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
   B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE SPECIALTY ENGINEER.
   C. THAT THE SPECIALTY ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.)
   D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.)

SOIL PREPARATION AND COMPACTION

1. THE GEOTECHNICAL RECOMMENDATIONS PROVIDED IN THESE PLANS ARE TAKEN FROM REPORT PREPARED BY NOVA GEOTECHNICAL & INSPECTION SERVICES LLC, REVISED REPORT DATED: NOVEMBER 5, 2021, NOVA PROJECT NUMBER: 10111-2021207.

2. SOIL COMPACTION SHALL BE FIELD CONTROLLED BY A SOILS ENGINEER OR TESTING LABORATORY. A REPORT BEARING THE SIGNATURE AND EMBOSSED SEAL OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE THE PROJECT IS LOCATED WHO CONTROLLED AND TESTED THE SOIL COMPACTION SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD AS AN INDICATION THAT THE REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FOLLOWED.

3. EXCAVATE EXISTING SOIL TO BOTTOM OF FOOTINGS. ALL DELETERIOUS MATERIAL MUST BE COMPLETELY REMOVED.

4. ALL EXISTING UTILITIES & ORGANICS (INCLUDING STUMPS AND ROOTS) SHALL BE COMPLETELY REMOVED PRIOR TO FILL OPERATIONS.

5. SOIL COMPACTION, FILL, AND ITS REPLACEMENT SHALL BE FIELD CONTROLLED BY THE TESTING AGENCY OR GEOTECHNICAL ENGINEER OF RECORD. THE TESTING AGENCY SHALL RANDOMLY SELECT ALL TEST LOCATIONS.

SOIL PREPARATION AND COMPACTION (CONTINUED)

6. THE CONTRACTOR SHALL DETERMINE WHETHER DE-WATERING WILL BE REQUIRED BASED ON ACTUAL GROUND WATER CONDITIONS AT THE TIME OF CONSTRUCTION.

7. FOLLOWING CLEARING OPERATIONS, THE EXPOSED SUBGRADE SOILS SHOULD BE DENSIFIED WITH A LARGE STATIC DRUM ROLLER AND THEN EVALUATED BY THE GEOTECHNICAL ENGINEER OF RECORD FOR STABILITY. PROOFROLL THE SUBGRADE SOILS TO CHECK FOR POCKETS OF LOOSE MATERIAL. SEVERAL PASSES SHOULD BE MADE BY A LARGE RUBBER-TIRED ROLLER OR LOADED DUMP TRUCK OVER THE CONSTRUCTION AREAS WITH THE NUMBER OF PASSES DETERMINED IN THE FIELD BY THE GEOTECHNICAL ENGINEER. ANY PUMPING OR UNSTABLE AREAS OBSERVED DURING PROOFROLLING SHALL BE UNDERCUT AND/OR STABILIZED AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.

8. FOOTING EXCAVATIONS SHALL EXTEND INTO FIRM NATURAL SOIL OR WELL-COMPACTED SUITABLE FILL. BEARING CAPACITIES SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION BY PERFORMING A FOOTING INSPECTION FOR EACH FOUNDATION STRUCTURE WHERE THE GEOTECHNICAL ENGINEER WILL USE A HAND AUGER OR HAND PENETRATION DEVICE IN THE BASES OF EXCAVATION TO VERIFY SOIL PROPERTIES.

9. ANY REQUIRED FILL TO RE-ESTABLISH FOOTING ELEVATIONS SHALL BE FLOWABLE FILL OR A SUITABLE FILL MATERIAL COMPACTED TO A DRY DENSITY OF 95% STANDARD PROCTOR MINIMUM ACCORDING TO ASTM D 698. IMMEDIATELY PRIOR TO PLACING REINFORCING STEEL, COMPACT THE BEARING SURFACES USING HAND OPERATED MECHANICAL TAMPERS TO A DRY DENSITY OF 98% STANDARD PROCTOR MINIMUM (ASTM D 698) AS TESTED TO A DEPTH OF 12 INCHES. THE COMPACTION TESTING IN THE BASE OF THE FOOTINGS MAY BE WAIVED BY THE GEOTECHNICAL ENGINEER WHERE FIRM BEARING SOILS ARE OBSERVED DURING THE FOOTING INSPECTIONS.

10. PROTECT SOILS EXPOSED IN THE BASES OF ALL SATISFACTORY FOUNDATION EXCAVATIONS TO PREVENT DETRIMENTAL CHANGE IN CONDITION SUCH AS FROM PHYSICAL DISTURBANCE, RAIN, FROST, SURFACE RUN-OFF OR OTHER ITEMS. DO NOT ALLOW WATER TO POND IN EXCAVATIONS.

11. ALL SUBSURFACE SOILS SHALL BE CONSIDERED TYPE C IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) CRITERIA.

12. FOUNDATIONS ARE DESIGNED USING A NET ALLOWABLE SOIL PRESSURE OF 1500 POUNDS PER SQUARE FOOT (PSF).

SLABS ON GRADE

1. FOLLOW THE SOIL PREPARATION AND COMPACTION PROCEDURES TO PREPARE FOR SLABS-ON-GRADE CONSTRUCTION. ALL GROUND FLOOR SLABS SHALL BE DIRECTLY SUPPORTED BY A 4-INCH MINIMUM LAYER OF RELATIVELY CLEAN, COMPACTED, POORLY GRADED SAND (SP) OR GRAVEL (GP) WITH LESS THAN 5% PASSING THE NO. 200 SIEVE (0.074 MM). ALTERNATELY, THE CONCRETE SLABS MAY BE DIRECTLY SUPPORTED BY A 4-INCH LAYER OF WELL-COMPACTED AGGREGATE BASE STONE.

2. CHAIR WIRE FABRIC DURING CONCRETE PLACEMENT TO INSURE PROPER POSITION IN SLAB.

3. REFER TO SPEC 072650 FOR 20 MIL SHEETING BETWEEN SOIL AND CONCRETE SLAB, UNLESS OTHERWISE NOTED.

4. RECESS SLABS ON GRADE FOR FLOOR FINISHES PER ARCHITECTURAL DRAWINGS.

5. REFER TO PLAN FOR THICKNESS AND REINFORCING.

REINFORCED CONCRETE

1. USE STRUCTURAL CONCRETE AND CONCRETING PRACTICES CONFORMING TO ACI-316 AND 301 AND PROPORTION CONCRETE IN ACCORDANCE WITH ACI-318 CH. 4 AND MEETING A MINIMUM. ULTIMATE COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:

FOOTINGS & COLUMN ENCASEMENT:	4000 PSI
SLABS:	4000 PSI
CMU FILL: (PEA GRAVEL)	3000 PSI
ALL OTHER CONCRETE:	4000 PSI

PROVIDE CURRENT (MAXIMUM. 1 YEAR OLD) STATISTICAL DATA FOR EACH CONCRETE MIX DESIGN SUBMITTED.

2. WHERE CONCENTRATION OF REINFORCING STEEL HINDERS PROPER CONSOLIDATION OF CONCRETE USE CONCRETE CONTAINING A SUPERPLASTICIZING (N.R.W.R.) ADMIXTURE, ASTM C494 TYPE F. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 7" ±1".

3. IF CONCRETE IS PUMPED, SLUMP MAY BE INCREASED TO 6" AT THE TRUCK. USE A MINIMUM 4-INCH PUMP, UNLESS PRE-APPROVED BY ENGINEER. TAKE CONCRETE SAMPLES FOR SLUMP AT TRUCK AND AT DISCHARGE END. TAKE CONCRETE SAMPLES FOR CYLINDER TESTING AT DISCHARGE END.

4. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318 CH. 6.4 AND SUBMIT SHOP DRAWINGS SHOWING LOCATIONS AND DIRECTION OF CONCRETE PLACEMENT FOR STRUCTURAL ENGINEER'S REVIEW. ROUGHEN JOINTS AND EXTEND ALL REINFORCEMENT THROUGH JOINT. PROVIDE CLASS B LAP SPLICE BEYOND JOINT. PROVIDE JOINTS IN MIDDLE THIRD OF ALL SLAB & BEAMS UNLESS OTHERWISE NOTED.

5. PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF STRUCTURAL PLANS FOR FIELD USE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL PLANS.

6. PLACE REINFORCING STEEL SUCH THAT BARS ADJACENT TO CONCRETE SURFACES & COLD JOINTS MEET MINIMUM CLEAR COVER REQUIREMENTS, BUT DO NOT EXCEED THOSE REQUIREMENTS. USE THE FOLLOWING CLEAR COVER OVER REINFORCING:

	BOTTOM	TOP	SIDES
FOOTINGS, GRADE BEAMS, & TURNDOWN SLABS	3"	3"	3"
COLUMNS / COLUMN ENCASEMENT	1 1/2"	1 1/2"	1 1/2"
SLABS ON GRADE	--	1 1/2"	1 1/2"

7. HORIZONTAL BARS SHALL BE MADE CONTINUOUS WITH HOOKS AROUND CORNERS.

8. USE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED STEEL WIRE FABRIC CONFORMING TO ASTM A-185. SUPPLY IN FLAT SHEETS ONLY. LAP SPLICES SHALL BE MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET AND SHALL BE NOT LESS THAN TWICE THE SPACING OF THE CROSS WIRES PLUS TWO (2) INCHES.

9. SLEEVE ALL PIPES THROUGH SLABS INDIVIDUALLY, UNLESS APPROVED BY ENGINEER.

10. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATING REINFORCING STEEL. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS.

11. PROVIDE CLASS 'B' LAP SPLICE AT SUPPORTS AND HOOK DISCONTINUOUS ENDS AT THE FAR FACE OF SUPPORTS FOR ALL BEAMS, UNLESS OTHERWISE NOTED.

12. REINFORCING PLACED IN LOCATIONS WHERE PROPER COVER CANNOT BE ACHIEVED SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A767 WITH 2 OUNCES OF ZINC COATING PER SQUARE FOOT OF SURFACE AREA MINIMUM.

13. WATERSTOPS SHALL BE A FLEXIBLE STRIP CONCRETE CONSTRUCTION JOINT WATERSTOP THAT PROVIDES A POSITIVE SEAL BY EXPANDING UPON CONTACT WITH WATER. THE SEALS SHALL BE ACTIVE BENTONITE/BUTYL RUBBER-BASED, CHEMICALLY RESISTANT, AND A SELF-ADHESIVE PRODUCT SUCH AS HYDRO-FLEX BY HENRY COMPANY. FOLLOW MANUFACTURERS WRITTEN INSTRUCTIONS FOR INSTALLATION TYP, UNLESS OTHERWISE NOTED. WATERSTOPS AT ALL EXPANSION AND CONTRACTION JOINTS SHALL BE MINIMUM 6" RIBBED WITH CENTER BULB DESIGNED FOR 1/2" LONGITUDINAL EXPANSION AND CONTRACTION.

14. ALL EXPOSED CONCRETE AND GROUT EDGES SHALL HAVE 3/4", 45° CHAMFER UNLESS OTHERWISE NOTED.

FORMWORK, SHORING, AND RE-SHORING:

1. DESIGN AND ERECT FORMS AND SHORES IN ACCORDANCE WITH ACI 347 AND AS SPECIFIED HEREIN. DESIGN FORMS FOR HORIZONTAL CONCRETE MEMBERS FOR NOT LESS THAN DEAD LOAD PLUS 50 PSF CONSTRUCTION LOAD, EQUIPMENT LOAD AND FOR THE CUMULATIVE LOADS OF SUPPORTED FLOOR, DESIGN WOOD SHORES WITH A SAFETY FACTOR OF 3 AND METAL SHORES WITH A SAFETY FACTOR OF 2.

2. REMOVAL OF FORMWORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REMOVE FORMS IN SUCH A MANNER TO INSURE JOB SAFETY AND TO PREVENT DAMAGE TO AND CREEP DEFLECTION OF THE STRUCTURE EXCEPT FOR FORMWORK NOT SUPPORTING CONCRETE; SUCH AS BEAM SIDES, WALLS AND COLUMNS, FORMS MAY BE REMOVED NO SOONER THAN 72 HOURS AFTER COMPLETING CONCRETE POUR PROVIDED CONCRETE STRENGTH IS 70% OF THE SPECIFIED 28 DAY STRENGTH AND NOT LESS THAN 3000 PSI. RESHORE EACH DAY AS IT IS STRIPPED, AS SOON AS FORMS ARE REMOVED.

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DESCRIPTION	DATE	REV

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SHEET TITLE:
GENERAL STRUCTURAL NOTES

SHEET NUMBER:
S0-01

POST INSTALLED ANCHORS & REINFORCING

1. SUBSTITUTION OF ANCHORS SPECIFIED BELOW FOR CAST-IN-PLACE EMBEDDED ANCHORS SHALL BE PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

2. ALLOWABLE WORKING LOADS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS, BUT NOT MORE THAN ACCEPTED BY APPROVING AGENCY. NO INCREASE FOR WIND OR SEISMIC LOADS IS PERMITTED.

3. PROVIDE A MINIMUM OF TWO FASTENERS PER CONNECTION.

4. INSTALL AND MAINTAIN A MINIMUM. EMBEDMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, OR AS SPECIFIED ON DRAWING, WHICHEVER IS GREATER, BUT WITH AN EMBEDMENT OF NOT LESS THAN 6 BOLT DIAMETERS.

5. UNLESS NOTED, ANCHOR SPACING AND ANCHOR EDGE DISTANCE SHALL BE ACCORDING TO THE MANUFACTURER'S MOST CURRENT PUBLICATION IN ORDER TO DEVELOP MAXIMUM WORKING LOADS.

6. DO NOT EXCEED MANUFACTURER'S MAXIMUM. RECOMMENDED TIGHTENING TORQUE.

7. ALL ANCHORS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND UNDER MANUFACTURER CERTIFIED SUPERVISION IN ORDER TO DEVELOP THE MOST CURRENT PUBLISHED WORKING LOADS.

8. EXPANSION ANCHORS: USE WEDGE-TYPE EXPANSION ANCHORS SUCH AS HILTI KWIK BOLT 3 OR ENGINEERED APPROVED EQUIVALENT.

9. ADHESIVE ANCHORING SYSTEMS:

   A. USE AN EPOXY OR POLYESTER RESIN ADHESIVE SUCH AS HILTI RE 500 V3, SIMPSON SET OR ACCEPTED ALTERNATE.

   B. DIAMETER OF HOLE SHALL BE AS RECOMMENDED BY MANUFACTURE FOR THE PARTICULAR PRODUCT SPECIFIED IN THE DRAWINGS.

   C. ALL EPOXIED ANCHORING SHALL BE OBSERVED BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE OR SHALL BE TESTED AFTER INSTALLATION AT CONTRACTOR'S EXPENSE. A MINIMUM OF 10% OF EACH DAY'S APPLICATIONS AND NO LESS THAN 2 SHALL BE TESTED BY THE FOLLOWING:

      1. REINFORCING STEEL: APPLY A TENSION LOAD OF 3000 lb TO THE EMBEDDED ANCHOR
      2. THREADED RODS AND BOLTS: APPLY 50% OF MAXIMUM ALLOWABLE TORQUE AS RECOMMENDED BY MANUFACTURER

      IF A TEST APPLICATION FAILS, ALL APPLICATIONS FOR THAT DAY SHALL BE TESTED. TESTING PROCEDURES AND RESULTS SHALL BE SUBMITTED AND APPROVED BY ENGINEER.

10. POWDER ACTUATED FASTENERS: USE POWDER ACTUATED FASTENING SYSTEMS SUCH AS HILTI, RED HEAD, RAMSET, OR AN ACCEPTED ALTERNATE HAVING ICBO, OR SBCCI APPROVAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, BUT NOT LESS THAN 1 1/8" INCHES IN CONCRETE, UNLESS OTHERWISE NOTED.

11. ANCHOR INSTALLATION SHALL ENSURE RECOMMENDED MANUFACTURER LOADS CAN BE ACHIEVED.

METAL DECK:

1. USE VULCRAFT OR ENGINEER APPROVED EQUIVALENT GALVANIZED STEEL DECK UNITS FORMED OF GAUGE STEEL SHEETS AS SPECIFIED ON THE DRAWINGS AND CONFORMING TO THE SPECIFICATIONS. UNLESS OTHERWISE NOTED.

2. STEEL DECK SHALL SPAN A MINIMUM OF THREE (3) SPANS.

3. DECK SHALL BE PLACED AT THE PERIMETER WITH COMPLETE RIB BEARING ON THE SUPPORTS PROVIDED.

4. ALL ROOF DECK FASTENERS SHALL BE MINIMUM BUILDEX TRAXX 5/16" HEX WASHER HEAD (HWH) OR EQUIVALENT, REFER TO PLAN FOR FASTENER SIZE.

MISCELLANEOUS STEEL

1. FOR MISCELLANEOUS STEEL NOT SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.

2. EDGE ANGLES, CLIP ANGLES, PLATES, BARS AND OTHER MISCELLANEOUS ROLLED SHAPES SHALL BE ASTM A-36 STRUCTURAL STEEL, UNLESS OTHERWISE NOTED.

TEMPORARY BRACING

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL RETAIN AT THE CONTRACTOR'S EXPENSE A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO DESIGN AND INSPECT ALL TEMPORARY SHORING AND BRACING. SIGNED, SEALED AND DATED DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW WHEN REQUESTED.

CONCRETE MASONRY UNITS

1. ALL MASONRY DESIGN SHALL CONFORM TO TMS 402/602.

2. REINFORCED MASONRY WALL DESIGN IS BASED ON INSPECTED MASONRY AS REQUIRED BY TMS 402/602 SPECIFICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A QUALITY CONTROL AND INSPECTION PROGRAM TO INSURE THAT ALL MASONRY WALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. REFER TO SPECIFICATION FOR THE MINIMUM REQUIREMENTS FOR THIS PROGRAM.

3. ALL MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (TMS 402/602)" PUBLISHED BY THE MASONRY SOCIETY, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

4. CONSTRUCT REINFORCED AND UNREINFORCED MASONRY AS NOTED ON THE PLANS AND DETAILS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE "SPECIFICATION FOR MASONRY STRUCTURES".

5. USE CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. PROVIDE F'M OF 2000 PSI (UNIT STRENGTH 2000 PSI) FOR ALL REINFORCED MASONRY WALLS. PERFORM COMPRESSIVE STRENGTH COMPLIANCE BY PRISM TEST METHOD. USE ONLY MASONRY UNITS THAT ARE A MINIMUM OF 50% SOLID. REFER TO THE SPECIFICATIONS FOR TESTING FREQUENCIES. TESTING REPORTS MUST BE PROVIDED TO THE COR OR PM PRIOR TO CONTINUATION OF WORK.

6. USE TYPE "S" MORTAR IN ACCORDANCE WITH ASTM C270. USE FULL-BEDDED JOINTS FOR ALL MASONRY UNITS. REMOVE MORTAR PROTRUDING INTO CELL CAVITIES THAT ARE TO BE REINFORCED AND GROUTED. ALLOW A MIN. OF 24 HOURS FOR MORTAR TO CURE BEFORE PLACING GROUT. REFER TO THE SPECIFICATIONS FOR TESTING REQUIREMENTS.

7. USE ALL GROUT CONFIRMING TO ASTM C-476 WITH A MIN. COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS, TESTED IN ACCORDANCE WITH ASTM C1019. AGGREGATE TO CONFORM TO ASTM C404 FOR COARSE GROUT AND SLUMP OF 8" TO 11". TEST SAMPLES FOR COMPRESSIVE STRENGTH. REFER TO THE SPECIFICATION FOR TESTING REQUIREMENTS. TESTING REPORTS MUST BE PROVIDED TO THE COR OR PM PRIOR TO CONTINUATION OF WORK.

8. REFER TO THE MASONRY DETAILS FOR REINFORCING REQUIREMENTS.

9. FOR UNREINFORCED WALLS USE STANDARD TRUSS-TYPE MASONRY HORIZONTAL REINFORCING IN EVERY OTHER COURSE OF MASONRY.

10. USE ASTM A-615 GRADE 60 REINFORCING STEEL.

11. IN HIGH-LIFT GROUTING USE A MAX. LIFT OF 5'-4" WITH MIN. HALF HOUR MAX. ONE HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE MINIMUM 6" OF PREVIOUS LIFT AFTER PLACING NEXT LIFT.

12. WHERE ANCHOR BOLTS ARE SET IN MASONRY WALL, FILL BLOCK CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW ANCHOR ELEVATION.

13. USE PRESSURE-TREATED WOOD FOR ALL WOOD IN CONTACT WITH MASONRY.

CONCRETE MASONRY UNITS (CONTINUED)

14. UNLESS OTHERWISE NOTED, PROVIDE LINTELS OR HEADERS OVER ALL MASONRY OPENINGS NOT FLUSH WITH STRUCTURAL FRAME. LINTELS OR HEADERS TO BEAR MINIMUM 16 INCHES EACH SIDE OF OPENING. REFER TO TYPICAL DETAILS.

15. FOR WALLS REQUIRING A FIRE RESISTANCE RATING, PROVIDE TO THE ARCHITECT, A CERTIFICATION INDICATING THAT THE MANUFACTURER OF THE CONCRETE MASONRY UNITS HAS COMPLIED WITH ALL THE REQUIREMENTS OF THE UL LISTINGS AS SPECIFIED ON THE ARCHITECTURAL DRAWINGS.

16. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR MASONRY LAYOUT & LOCATIONS OF OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL

1. ALL STEEL WORK (INCLUDING FABRICATION AND ERECTION) SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN" 15TH EDITION AND PROJECT SPECIFICATIONS, USE THE FOLLOWING:
   A. STRUCTURAL STEEL WIDE FLANGE AND WT SECTIONS: ASTM A992 Fy=50 KSI
   B. CHANNELS, ANGLES, PLATES, AND MISCELLANEOUS STEEL: ASTM A36, Fy=36 KSI
   C. STRUCTURAL STEEL TUBING: ASTM A500 GRADE C, Fy=50 KSI (RECTANGULAR) & Fy=46 KSI (ROUND)
   D. STEEL PIPE: ASTM A53, TYPE E OR S GRADE B, Fy=35 KSI

2. THE CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT INDICATED ON THE DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR'S SPECIALTY ENGINEER. THESE CONNECTIONS SHALL BE DESIGNED FOR THE FORCES INDICATED ON THE STRUCTURAL DRAWINGS. WHERE FORCES ARE NOT SHOWN ON THE DRAWINGS, EACH END CONNECTION SHALL BE DESIGNED FOR ONE-HALF THE TOTAL LOAD SHOWN IN THE APPROPRIATE AISC "ALLOWABLE LOADS ON BEAMS" TABLES.

3. USE STRUCTURAL STEEL THAT IS FULLY WELDABLE WITHIN GRADES AND FROM ANY GRADE TO ANY OTHER GRADE. WELD ALL SHOP CONNECTIONS, UNLESS OTHERWISE NOTED.

4. ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE AWS D1.1, LATEST EDITION, PUBLISHED BY THE AMERICAN WELDING SOCIETY (AWS). USE ELECTRODES CONFORMING TO AWS D1.1, E70 SERIES, UNLESS OTHERWISE NOTED. SHOW ALL SHOP WELDS ON THE FABRICATION DRAWINGS AND ALL FIELD WELDS ON THE ERECTION DRAWINGS.

5. ALL SHOP AND FIELD WELDERS, WELDING OPERATORS, AND TACKERS SHALL BE CERTIFIED ACCORDING TO AWS PROCEDURE FOR THE WELDING PROCESS AND WELDING POSITION USED. ALL RECORDS OF SUCH CERTIFICATION SHALL BE FILED AT THE JOBSITE AND MADE AVAILABLE TO THE ENGINEER UPON REQUEST.

6. ALL JOINT WELDING PROCEDURES TO BE USED SHALL BE PREPARED BY THE FABRICATOR OR CONTRACTOR AS WRITTEN PROCEDURE SPECIFICATIONS. ALL RECORDS SHALL BE FILED AT THE JOB SITE & MADE AVAILABLE TO THE ENGINEER UPON REQUEST. ALL JOINT WELDING PROCEDURES SHALL BE QUALIFIED PRIOR TO USE ACCORDING TO AWS PROCEDURES.

7. ALL SHOP AND FIELD WELDS SHALL BE VISUALLY INSPECTED. ALL FULL PENETRATION WELDS SHALL BE INSPECTED BY A THIRD PARTY TESTING AGENCY.

8. BOLTED CONNECTIONS:
   A. ALL BOLTS SHALL BE A325, 3/4" DIA AND CONFORM TO ASTM A325 TYPE 1, HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS, UNLESS OTHERWISE NOTED. DO NOT USE TYPE 2 BOLTS.

   B. PROVIDE HARDENED WASHERS CONFORMING TO ASTM F436. PLACE HARDENED WASHERS UNDER PART BEING TURNED.

   C. ALL BOLTS SHALL BE NEW AND DOMESTICALLY MANUFACTURED. DO NOT REUSE BOLTS. USE ONLY NON-GALVANIZED NUTS AND BOLTS THAT ARE CLEAN, RUST-FREE, AND WELL LUBRICATED. BOLTS AND NUTS SHALL BE WAX DIPPED BY THE BOLT SUPPLIER OR LUBRICATED WITH JOHNSON'S STICK WAX 140.

   D. BEARING-TYPE BOLTS (A325N) SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITIONS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

   E. SLIP CRITICAL TYPE BOLTS (A325SC) OR BOLTS NOTED TO BE FULLY TIGHTENED SHALL BE TIGHTENED TO THE MINIMUM FASTENER TENSION INDICATED IN SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A-325 OR ASTM A-490 BOLTS SECTION 5, TABLE 3. TENSION SHALL BE DETERMINED SOLELY BY USE OF DIRECT TENSION INDICATORS, COMPLYING WITH ASTM F959-85, OR "LOHR" TENSION CONTROL BOLTS. HARDENED WASHERS SHALL BE USED FOR FRICTION-TYPE BOLTS. PROVIDE ONLY DOMESTICALLY MANUFACTURED BOLTS AND D.T.I.'S FRICTION-TYPE BOLTED CONNECTIONS MAY BE INSTALLED.

   F. SHOP DESIGNED BOLTED CONNECTIONS SHALL USE A325N, 3/4" DIA BOLTS UNLESS OTHERWISE NOTED..

   G. TRUSS CONNECTIONS SHALL USE A325X, 3/4" DIA BOLTS. FULLY TIGHTEN ALL BOLTS IN TRUSS CONNECTION AS REQUIRED FOR SLIP CRITICAL CONNECTIONS.

   H. ALL BOLTS IN HANGER TYPE CONNECTIONS WHERE THE BOLTS ARE SUBJECT TO DIRECT TENSION SHALL BE FULLY TIGHTENED AS REQUIRED FOR SLIP CRITICAL CONNECTIONS. USE COMPRESSIBLE-WASHER TYPE DIRECT TENSION INDICATORS CONFORMING TO ASTM F959.

9. ANCHOR BOLTS
   A. ANCHOR BOLTS SHALL BE F1554, GRADE 36 WITH HEAVY HEX NUTS AND HARDENED STEEL WASHERS.

   B. HARDENED STEEL WASHERS SHALL BE REGULAR SERIES, TYPE B, PLAIN, HARDENED WASHERS COMPLYING WITH ANSI B18.22.1 USING A325 CARBON STEEL PLATE WITHOUT ANY BREAK OR GAP.

   C. ANCHOR BOLTS SHALL BE THREADED FOR FULL PROJECTION ABOVE ROUGH CONCRETE, UNLESS OTHERWISE NOTED.

   D. TIGHTEN ANCHOR BOLTS AS FOLLOWS:
      - BRING ALL ANCHOR BOLTS TO A SNUG TIGHT CONDITION OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.

   E. BASE PLATES SHALL BE GROUTED IMMEDIATELY AFTER FINAL ANCHOR BOLT TIGHTENING.

10. GROUT UNDER BASE PLATES SHALL BE HIGH STRENGTH, NON-SHRINK AND NON-METALLIC AS MANUFACTURED BY FIVE STAR, MASTER BUILDERS, SIKA OR APPROVED EQUIVALENT.

11. CUT, DRILL, OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES. DO NOT FLAME CUT HOLES OR ENLARGE HOLES BY BURNING.

12. SPLICING OF STRUCTURAL STEEL MEMBERS IN THE FIELD OR IN THE SHOP IS PROHIBITED EXCEPT WHERE INCLUDED ON THE DRAWINGS.

13. GROUT BENEATH BASE PLATES SHALL BE 5000 PSI HIGH STRENGTH CEMENTITIOUS NON-SHRINK METALLIC GROUT.

14. DO NOT PAINT STEEL SURFACES IN CONTACT WITH CONCRETE. DO NOT APPLY FINISH COAT AND LIMIT PRIME COAT TO 2 MILS AT FAYING SURFACES OF SLIP CRITICAL BOLTED CONNECTIONS, SURFACES TO BE WELDED AND TOP SURFACES OF BEAMS AND TRUSSES TO RECEIVE STEEL STUDS AND/OR SUPPORTING METAL FLOOR AND ROOF DECKING. USE PRIMER WHICH HAS A MINIMUM. CLASS A SLIP COEFFICIENT (0.33).

15. REFER TO ARCHITECTURAL PLANS FOR FIREPROOFING OF STRUCTURAL STEEL MEMBERS, REFER TO SPECIFICATIONS FOR PAINTING OF STRUCTURAL STEEL.

16. SUBMIT STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR REVIEW BEFORE FABRICATION. ALL STRUCTURAL STEEL SHOP DRAWINGS, REQUIRING INPUT FROM A SPECIALTY ENGINEER, SHALL BE SIGNED AND SEALED PRIOR TO SUBMITTAL. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS.

17. PROVIDE TEMPORARY BRACING AS NECESSARY TO INSURE A STABLE STRUCTURE DURING CONSTRUCTION.

18. NO CUTTING OF SECTIONS, FLANGES, WEBS, OR ANGLES SHALL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

19. FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATIONS AND "CODE OF STANDARD PRACTICE".

20. IMMEDIATELY AFTER ERECTION ALL FRAMING MEMBERS AND WELDS SHALL BE TOUCHED UP WITH A PAINT COMPATIBLE WITH THE SHOP PAINT OR COATING.

21. ALL EXPOSED STEEL SHALL EITHER BE PAINTED PER SPEC DIVISION 9 OR HOT DIPPED GALVANIZED. REFER TO ARCH PLANS & SPECIFICATIONS.

22. PROVIDE 3/8" CAP PLATE AT ALL OPEN ENDS OF HSS MEMBERS (BEAM ENDS AND T/COL). CONNECT w/ 3/16" ALL-AROUND FILLET WELD, TYPICAL.

STEEL FASTENERS AND HARDWARE:

1. FASTENERS IN CONTACT WITH ACQ TREATED LUMBER SHALL EITHER BE TYPE 316 STAINLESS STEEL OR SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A153 WITH 2 OUNCES OF ZINC COATING PER SQUARE FOOT MINIMUM, AND SEPARATED WITH A WATERPROOF MEMBRANE.

2. FASTENERS AND CONNECTORS USED TOGETHER SHOULD BE OF THE SAME TYPE. DO NOT MIX HOT-DIPPED GALVANIZED ITEMS WITH STAINLESS STEEL.

3. ALL INDOOR VISUALLY EXPOSED CONNECTORS AND FASTENERS SHALL BE PAINTED AND FINISHED IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATIONS.

4. ALL NON STAINLESS STEEL PLATES AND SHAPES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A36.

5. BOLTS AND LAG SCREWS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/ASME STANDARD B18.2.1 GRADE 2 OR ASTM A307, GRADE 2, AND SHALL PREFERABLY BE DOME HEAD TIMBER BOLTS.

6. EDGE ANGLES, CLIP ANGLES, PLATES, BARS AND OTHER MISCELLANEOUS ROLLED SHAPES SHALL BE ASTM A-36 STRUCTURAL STEEL, UNLESS OTHERWISE NOTED.

7. ALL EXPOSED FASTENERS SHALL EITHER BE PAINTED PER SPEC DIVISION 9 OR HOT DIPPED GALVANIZED.

STEEL JOISTS AND JOISTS GIRDERS

1. THE ENGINEER OF RECORD DELEGATES DESIGN RESPONSIBILITY FOR THE PREPARATION, FABRICATION, AND ERECTION DRAWINGS TO A SPECIALTY ENGINEER. SUBMIT STEEL JOISTS SHOP DRAWING TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE SIGNED, DATED, AND SEALED BY A SPECIALTY ENGINEER LICENSED IN THE STATE OF FLORIDA PRIOR TO SUBMITTING FOR REVIEW.

2. ALL JOISTS SHALL BE DESIGNED AND FABRICATED BY THE MANUFACTURER, AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE, LATEST REVISION.

3. STEEL JOIST MANUFACTURER SHALL SUBMIT ERECTION AND SHOP DRAWINGS SHOWING JOIST LOCATIONS, BRIDGING, CONNECTIONS AND DETAILS, JOIST TO JOIST CONNECTIONS, SPECIAL & EXTENDED ENDS. SLOPED SEATS & ACCESSORIES REQUIRED FOR THE INSTALLATION OF JOISTS.

4. JOISTS SHALL BE STORED ON WOOD SLEEPERS ON DRY, LEVEL GROUND. PERMANENTLY DEFORMED OR OTHERWISE DAMAGED JOISTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

5. THE CONTRACTOR SHALL SUPPLY THE STEEL JOIST FABRICATOR SPRINKLER DRAWINGS. THE STEEL JOIST FABRICATOR SHALL DESIGN THEIR PRODUCTS FOR THE LOADING IMPOSED BY SPRINKLER MAIN SUPPLY LINES AND BRANCHES. THE STEEL JOIST FABRICATOR SHALL BE SOLELY RESPONSIBLE FOR THE ADEQUACY OF THE JOIST DESIGN TO ACCOMMODATE SUCH IMPOSED LOADS. IF SPRINKLER DRAWINGS ARE NOT AVAILABLE, THE JOIST FABRICATOR SHALL USE A DESIGN LOAD OF 3 PSF APPLIED AS A UNIFORM OR CONCENTRATED LOADS WHICH CAN BE SUPPORTED BY THEIR SYSTEMS.

6. K-SERIES JOIST STRUCTURAL STEEL SHALL BE ASTM A572, GRADE 50 (FY = 50,000 PSI) UNLESS NOTED OTHERWISE.

7. REFER TO SPEC DIVISION 9 FOR INTERIOR STEEL (STEEL JOIST) COATING REQUIREMENTS. IF A SHOP PRIMER IS PROVIDED BY THE SUBCONTRACTOR, THE SUBCONTRACTOR AND CONTRACTOR SHALL ENSURE STEEL JOISTS SHOP PRIMER IS COMPATIBLE WITH INTERIOR STEEL COATING IDENTIFIED IN SPEC DIVISION 9.

8. THE STEEL JOIST MANUFACTURER SHALL INVESTIGATE THE JOISTS FOR A MINIMUM NET UPLIFT IN ACCORDANCE WITH THE STRUCTURAL NOTES AND FURNISH THE BRIDGING AND ATTACHMENTS NECESSARY TO ENSURE PROPER JOIST PERFORMANCE UNDER UPLIFT FORCES AND FORCES DUE TO ERECTION PER SJI SPECIFICATIONS AND OSHA REQUIREMENTS.

9. THE JOIST SPECIALTY ENGINEER SHALL COORDINATE REQUIRED CAMBER TO ACCOUNT FOR POSSIBLE INCREASED SECTION PROPERTIES DUE TO THE WIND UPLIFT DESIGN.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STRAIGHT AND UNIFORM ROOF SYSTEM. PROVIDE SMOOTH TRANSITIONS BETWEEN ADJACENT JOISTS AND BETWEEN JOIST AND ADJACENT WALLS. WALLS THAT EXTEND TO THE ROOF DECK SHALL BE CONSTRUCTED AND COORDINATED TO MATCH FINAL IN-PLACE JOIST PROFILES OR SHIM AS REQUIRED.

11. STEEL JOIST BEARING AT EXTERIOR WALLS SHALL BE DESIGNED TO RESIST 2,500 POUNDS LATERAL FORCE PERPENDICULAR TO LONG SPAN JOISTS APPLIED AT THE TOP OF THE JOIST.

12. UNLESS NOTED, K-SERIES STEEL JOIST SHALL HAVE 2-1/2" DEEP BEARING, JOIST SEAT DEPTHS.

13. UNLESS OTHERWISE NOTED OR AS REQUIRED BY DESIGN OF JOIST MANUFACTURER, K-SERIES STEEL JOISTS SHALL BE CONNECTED TO STEEL BY 1/4" WELD, 4" LONG EACH SIDE.

14. HORIZONTAL BRIDGING SHALL BE AN ANGLE AT TOP AND BOTTOM, DESIGNED FOR L/R LESS THAN OR EQUAL TO 300. A SINGLE LINE OF BOTTOM CHORD BRIDGING MUST BE PROVIDED AT THE ENDS OF STEEL ROOF JOISTS NEAR THE FIRST BOTTOM CHORD PANEL POINT FOR WIND UPLIFT.

15. DIAGONAL BRIDGING SHALL BE AN ANGLE DESIGNED FOR L/R LESS THAN OR EQUAL TO 200.

16. UNLESS NOTED, 2ND AND 3RD JOIST SPACES FROM WALLS AND 1ST AND 2ND JOIST SPACES FROM DISCONTINUOUS TRANSITIONS SHALL HAVE CROSS BRIDGING (TO BE ALIGNED WITH HORIZONTAL BRIDGING).

17. JOIST BRIDGING SHALL NOT BE USED TO SUPPORT EQUIPMENT, PIPING, CONDUITS, DUCTWORK, ETC.

18. WHERE FIELD WELDING IS REQUIRED AT TOP OR BOTTOM CHORDS OF JOISTS, TEMPORARILY SHORE AT EACH SIDE OF WELDING LOCATION.

19. MECHANICAL/ELECTRICAL SUPPORTS:

   A. COORDINATE ALL SUPPORTS WITH MECHANICAL AND ELECTRICAL DRAWINGS AND COMPLY WITH APPLICABLE SPECIFICATIONS.

   B. LOCATE ALL ATTACHMENTS AS CLOSE TO PANEL POINTS AS POSSIBLE. DISTRIBUTE LOADS UNIFORMLY ALONG JOISTS.

   C. ALL SUPPORTS SHALL BE ATTACHED SO AS TO APPLY CONCENTRIC LOADS TO THE JOISTS AND JOIST MEMBERS. NO ECCENTRIC LOADS SHALL BE APPLIED WHICH MAY CAUSE THE JOISTS OR INDIVIDUAL MEMBERS TO ROTATE AND BUCKLE.

   D. DO NOT ALTER ANY PART OF ANY JOIST WITHOUT WRITTEN APPROVAL FROM THE SPECIALTY ENGINEER. CUTTING, DRILLING, OR NOTCHING ANY MEMBER OF THE JOIST IS PROHIBITED WITHOUT WRITTEN PRIOR APPROVAL. IN NO WAY SHALL THE INTEGRITY OF THE JOISTS BE ADVERSELY ALTERED BY ATTACHING PIPE SUPPORTS OR ANY OTHER ATTACHMENTS.

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SPRINGFIELD CITY COMPLEX

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DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
GENERAL STRUCTURAL NOTES

SHEET NUMBER:
S0-02

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502100062-005
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LIGHT GAUGE GALVANIZED METAL TRUSSES:

1. THE STRUCTURAL ENGINEER OF RECORD DELEGATES THE RESPONSIBILITY FOR THE DESIGN OF THE PREFABRICATED ROOF TRUSSES TO SPECIALTY ENGINEERS LICENSED IN FLORIDA. THE SPECIALTY ENGINEERS SHALL INCLUDE COMPONENT DETAILS AND LAYOUT DRAWINGS SHOWING DESIGN LOADING, MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, STEEL REINFORCING, AND OTHER NECESSARY FABRICATION AND ERECTION INFORMATION. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL CALCULATIONS IF THEY ARE ACCOMPANIED BY SUFFICIENT DESIGN ASSUMPTIONS AND IDENTIFIED INPUT AND OUTPUT INFORMATION TO PERMIT THEIR PROPER EVALUATION BY THE STRUCTURAL ENGINEER OF RECORD. DO NOT FABRICATE MEMBERS UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD. ALL SHOP DRAWINGS SHALL INCLUDE THE EMBOSSED SEAL OF THE SPECIALTY ENGINEER.

2. DESIGN SHALL BE IN ACCORDANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS."

3. PERFORMANCE REQUIREMENTS: TRUSS SYSTEM, WITH FRAMING COMPONENTS AND ACCESSORIES, SHALL PROVIDE A COMPLETE HORIZONTAL FRAMING SYSTEM, READY FOR DECK INSTALLATION, MEETING THE SPECIFIED DESIGN REQUIREMENTS. SHIM AS REQUIRED TO PROVIDE UNIFORM AND SMOOTH TRANSITIONS BETWEEN ADJACENT TRUSSES AND BETWEEN TRUSSES AND WALLS THAT EXTEND TO THE ROOF DECK.

4. COMPONENT REQUIREMENTS: TRUSS CHORDS AND WEB COMPONENTS SHALL HAVE ROLLED OR CLOSED EDGES TO MINIMIZE THE DANGER OF CUTTING DURING HANDLING. CHORD AND WEB COMPONENTS WITHOUT ROLLED EDGES SHALL NOT BE ACCEPTED.

5. TRUSS CONFIGURATION: ARRANGEMENT OF WEB MEMBER SHALL BE AT THE DISCRETION OF THE DESIGN ENGINEER. COORDINATE WEB SPACING AS REQUIRED FOR MECHANICAL DUCT REQUIREMENTS. JOINT CENTERLINES OF MEMBERS SHALL INTERSECT AT A COMMON WORK POINT OR THE SPECIALTY ENGINEER SHALL CONSIDER IMPOSED LOADS DUE TO ECCENTRICITY IN THE TRUSS DESIGN.

6. JOINTS AND CONNECTIONS SHALL BE MADE WITH SCREWS OR BOLTS.

7. CONNECTIONS OF TRUSS TO THE PRIMARY STRUCTURE SHALL BE BY THE TRUSS SPECIALTY ENGINEER. THE TRUSS SPECIALTY ENGINEER SHALL COORDINATE CLIPS WITH TRUSS PROFILES, AND DESIGN AND SPECIFY ALL SCREWS FOR TRUSS TO CLIP CONNECTIONS.

8. TRUSSES SHALL BE DESIGNED FOR THE DEAD WEIGHT OF THE TRUSSES AND BRACING PLUS THE LOADS GIVEN IN THE GENERAL NOTES AND ROOF FRAMING PLANS.

9. ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY SPECIALTY ENGINEER.

10. TRUSSES SHALL BE DESIGNED TO SUPPORT PIPE LOADING INDICATED. EXACT LOCATIONS SHALL BE COORDINATED WITH MECHANICAL.

11. MECHANICAL/ELECTRICAL SUPPORTS:

    A. COORDINATE ALL SUPPORTS WITH MECHANICAL AND ELECTRICAL DRAWINGS AND COMPLY WITH APPLICABLE SPECIFICATIONS.

    B. LOCATE ALL ATTACHMENTS AS CLOSE TO PANEL POINTS AS POSSIBLE. DISTRIBUTE LOADS UNIFORMLY ALONG TRUSSES.

    C. ALL SUPPORTS SHALL BE ATTACHED SO AS TO APPLY CONCENTRIC LOADS TO THE TRUSSES AND TRUSS MEMBERS. NO ECCENTRIC LOADS SHALL BE APPLIED WHICH MAY CAUSE THE TRUSSES OR INDIVIDUAL MEMBERS TO ROTATE AND BUCKLE.

    D. DO NOT ALTER ANY PART OF ANY TRUSS WITHOUT WRITTEN APPROVAL FROM THE SPECIALTY ENGINEER. CUTTING, DRILLING, OR NOTCHING ANY MEMBER OF THE TRUSS IS PROHIBITED WITHOUT WRITTEN PRIOR APPROVAL. IN NO WAY SHALL THE INTEGRITY OF THE TRUSSES BE ADVERSELY ALTERED BY ATTACHING MECHANICAL/ELECTRICAL SUPPORTS OR ANY OTHER ATTACHMENTS.

12. ALL LIGHT GAUGE ROOF TRUSSES SHALL HAVE A G90 COATING THICKNESS.

REFERENCE DATUM & FLOOD DATA:

1. STRUCTURAL PLANS BASED ON TOP OF CONCRETE FOR THE GROUND FLOOR (NAVD 88) (COORDINATE WITH CIVIL DRAWINGS):
   FINISH FLOOR ELEVATION: EL: 0'-0" = EL: 39'-6" (CITY HALL)
   EL: 0'-0" = EL: 39'-6" (POLICE STATION)
   EL: 0'-0" = EL: 39'-6" (FIRE STATION)
   EL: 0'-0" = EL: 38'-10" (PUBLIC WORKS)

2. PROJECT IS LOCATED IN FLOOD ZONE X.

STANDARD STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	DWG	DRAWING	LDG	LANDING	REV	REVISION	Sx	SECTION MODULUS
ABBREV	ABBREVIATION	EA	EACH	LT WT	LIGHT WEIGHT	SCHED	SCHEDULE		
ADD	ADDITIVE	EF	EACH FACE	LLH	LONG LEG HORIZONTAL	SP, SP'S	SPACE/SPACES	Ix	MOMENT OF INERTIA
ADD'L	ADDITIONAL	ES	EACH SIDE	LLV	LONG LEG VERTICAL	SPECS	SPECIFICATIONS		
ALT	ALTERNATE/ALTERNATIVE	EW	EACH WAY	LP	LOW POINT	SLV	SHORT LEG VERTICAL	±	PLUS OR MINUS
ALUM	ALUMINUM	ELEC	ELECTRICAL	MAX	MAXIMUM	SIM	SIMILAR		
ACI	AMERICAN CONCRETE INSTITUTE	ENGR	ENGINEER	MID	MIDDLE	STD	STANDARD	℄, CL	CENTERLINE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EQ SP	EQUAL SPACED	MANUF	MANUFACTURER	STIFF	STIFFENER		
AISI	AMERICAN IRON AND STEEL INSTITUTE	EL:	ELEVATION	MIN	MINIMUM	STRUCT	STRUCTURAL	Ø , DIA	DIAMETER
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	EJ	EXPANSION JOINT	MATL	MATERIAL	SYM	SYMMETRICAL		
AWS	AMERICAN WELDING SOCIETY	EXIST	EXISTING	MECH	MECHANICAL	THD	THREAD/THREADED		ELEVATION
ARCH	ARCHITECTURAL	EXP	EXPANSION	MISC	MISCELLANEOUS	THK	THICK		
BM	BEAM	EXT	EXTERIOR	MPH	MILES PER HOUR	T/	TOP OF		MASONRY CONTROL JOINT
BRG	BEARING	FD	FLOOR DRAIN	MTL	METAL	TD	TURN DOWN SLAB		(REFER TO WALL LAYOUT PLANS FOR LOCATIONS)
BLK	BLOCK	FDN	FOUNDATION	NS	NEAR SIDE	T&B	TOP AND BOTTOM		
B/	BOTTOM OF	FF	FINISH FLOOR	NIC	NOT IN CONTACT	TS	THICKENED SLAB	℄, PL	PLATE
BLDG	BUILDING	FIN FL	FINISH FLOOR	NTS	NOT TO SCALE	TYP	TYPICAL		
BTWN	BETWEEN	FS	FAR SIDE	NO., #	NUMBER	TS	TUBE STEEL		
BOT	BOTTOM	FTG	FOOTING	OC	ON CENTER	UON	UNLESS OTHERWISE NOTED		
CIP	CAST IN PLACE	GA	GAUGE	OD	OUTSIDE DIAMETER	VERT	VERTICAL		
C TO C	CENTER TO CENTER	GALV	GALVANIZE	OF	OUTSIDE FACE	VIF	VERIFY IN FIELD		
CLR	CLEAR/CLEARANCE	HORIZ	HORIZONTAL	OPNG	OPENING	WWF	WELDED WIRE FABRIC		
COL	COLUMN	HP	HIGH POINT	PLY	PLYWOOD	W	WIDE FLANGE		
CONC	CONCRETE	HT	HEIGHT	PC	PRECAST	w/	WITH		
CMU	CONCRETE MASONRY UNIT	ID	INSIDE DIAMETER	PREFAB	PREFABRICATED	w/o	WITHOUT		
CONT	CONTINUOUS	IF	INSIDE FACE	PROJ	PROJECTION	WP	WORK POINT		
CONN	CONNECTION	JT	JOINT	REF	REFERENCE	@	AT		
CJ	CONSTRUCTION JOINT	JST	JOIST	REINF	REINFORCING	C	CHANNEL		
DET	DETAIL	KWY	KEYWAY	REQ'D	REQUIRED	K	KIP (1,000 LBS)		
DIM	DIMENSION	LBS	POUNDS	RW	RETAINING WALL	Sx	SECTION MODULUS		

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DATE:	10-3-2023
DESIGNED BY:	MJT
DRAWN BY:	KWD
CHECKED BY:	LJD
PROJECT ENGINEER:	M. TUGWELL
PROJECT MANAGER:	T. JARMAN
Mott MacDonald PROJECT NO:	502100062-005

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SHEET TITLE:
GENERAL STRUCTURAL NOTES

SHEET NUMBER:
S0-03

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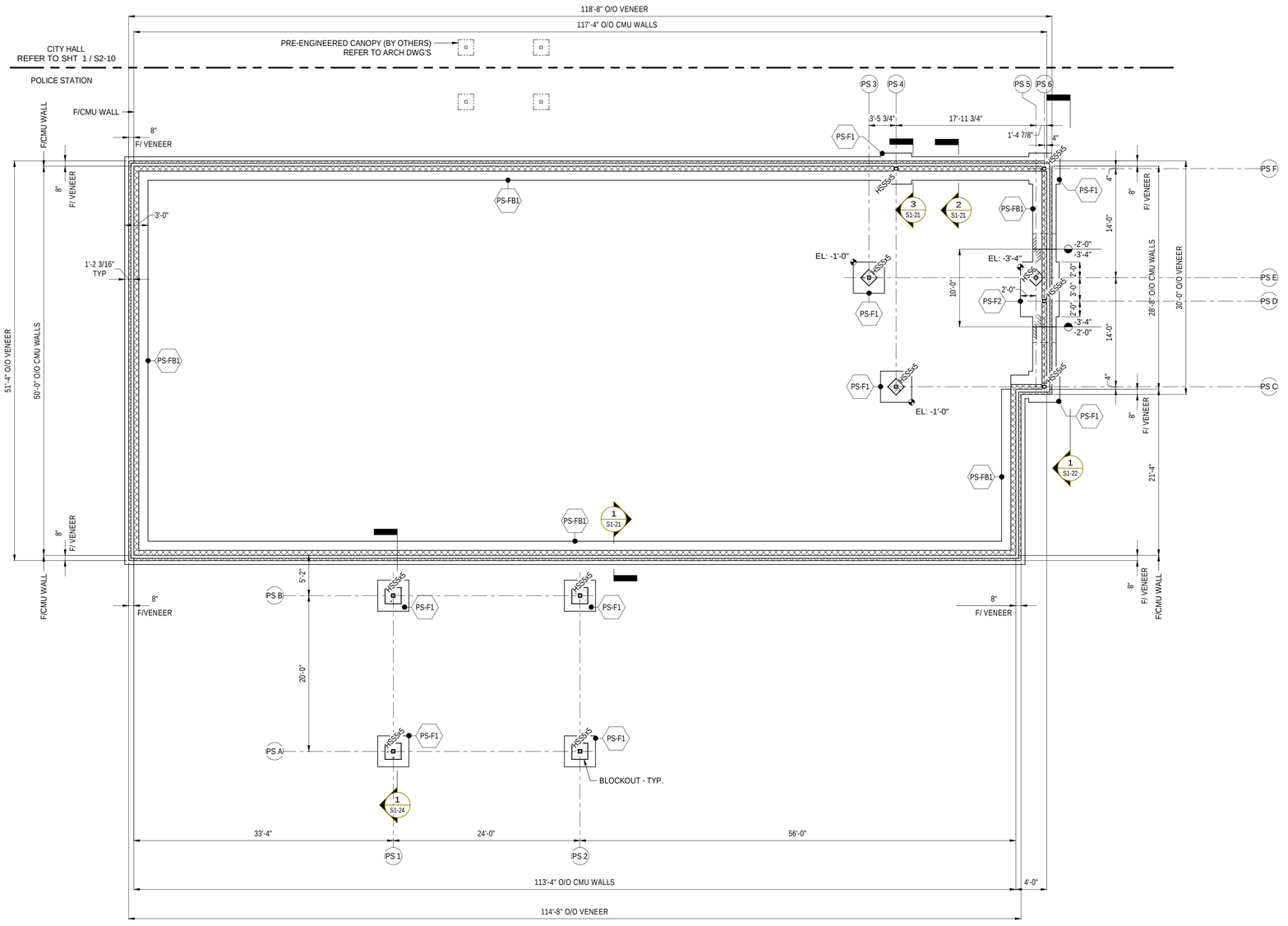

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1 PS - FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE

MARK	SIZE SHORT x LONG x THICKNESS	TOP		BOTTOM	
		SHORT	LONG	SHORT	LONG
PS-F1	4'-0" x 4'-0" x 1'-0"	(5)#5	(5)#5	(5)#5	(5)#5
PS-F2	7'-0" x 5'-0" x 1'-0"	(8)#5	(6)#5	(8)#5	(6)#5
PS-FB1	3'-0" x CONT x 1'-0"	#5@8" OC	(4)#5 CONT	#5@8" OC	(4)#5 CONT

FOUNDATION PLAN NOTES:

1. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR POLICE STATION STRUCTURAL PLANS.
2. TOP OF FOUNDATION ELEVATION= -2'-0", UNLESS OTHERWISE NOTED.
3. REFER TO SD-30 AND SD-31 FOR FOUNDATION DETAILS.
4. REFER TO SD-31 FOR BASE PLATE AND ANCHOR BOLT DETAILS.
5. CENTER ALL COLUMNS ON FOUNDATIONS, UNLESS OTHERWISE NOTED.
6. REFER TO SD-40 AND SD-41 FOR CMU WALL TYPICAL DETAILS.
7. START AND END REINFORCING WITH CLEAR COVER NOT TO EXCEED MINIMUM ALLOWED COVER ON ALL SIDES OF FOOTING. REMAINDER OF REINFORCING SHALL BE PLACED WITHOUT EXCEEDING SPACING SHOWN IN SCHEDULE.
8. LONG REINFORCING REFERS TO THE LONGER LENGTH BARS PLACED ACROSS THE SHORT SIDE. SHORT REINFORCING REFERS TO THE SHORTER LENGTH BARS PLACED ACROSS THE LONG SIDE.
9. FOOTING SIZE SHOWN IS A MAXIMUM OUTSIDE DIMENSIONS AND THICKNESS. REFER TO PLAN FOR ACTUAL SHAPE AND ORIENTATION.
10. EXTEND LONGITUDINAL FOOTING REINFORCING INTO ADJACENT FOOTING WITH MIN. CLASS 'B' LAP SPLICE.
11. REFER TO ARCH., CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR COORDINATION.

LEGEND

- INDICATES 8" CMU WALL — REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES 4" BRICK/CMU VENEER — REFER TO ARCHITECTURAL DRAWINGS
- F# — INDICATES FOUNDATION TYPE — REFER TO FOOTING SCHEDULE AND SHEETS SD-30 & SD-31
- EL: X'-XX" — INDICATES TOP OF FOOTING REFERENCE ELEVATION — REFER TO GENERAL NOTES
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN — REFER TO 6/SD-31 FOR BASE PLATE DETAIL & ANCHOR BOLT SCHEDULE
- HSS6 — INDICATES HSS6x3/8 STEEL COLUMN — REFER TO 6/SD-31 FOR BASE PLATE DETAIL & ANCHOR BOLT SCHEDULE.
- UPPER EL / STEP DN EL — INDICATES FOOTING STEP — REFER TO SD-30

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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

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DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
POLICE STATION FOUNDATION PLAN

SHEET NUMBER:
S1-10

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502100062-005
8/6/2024 7:55:56 AM

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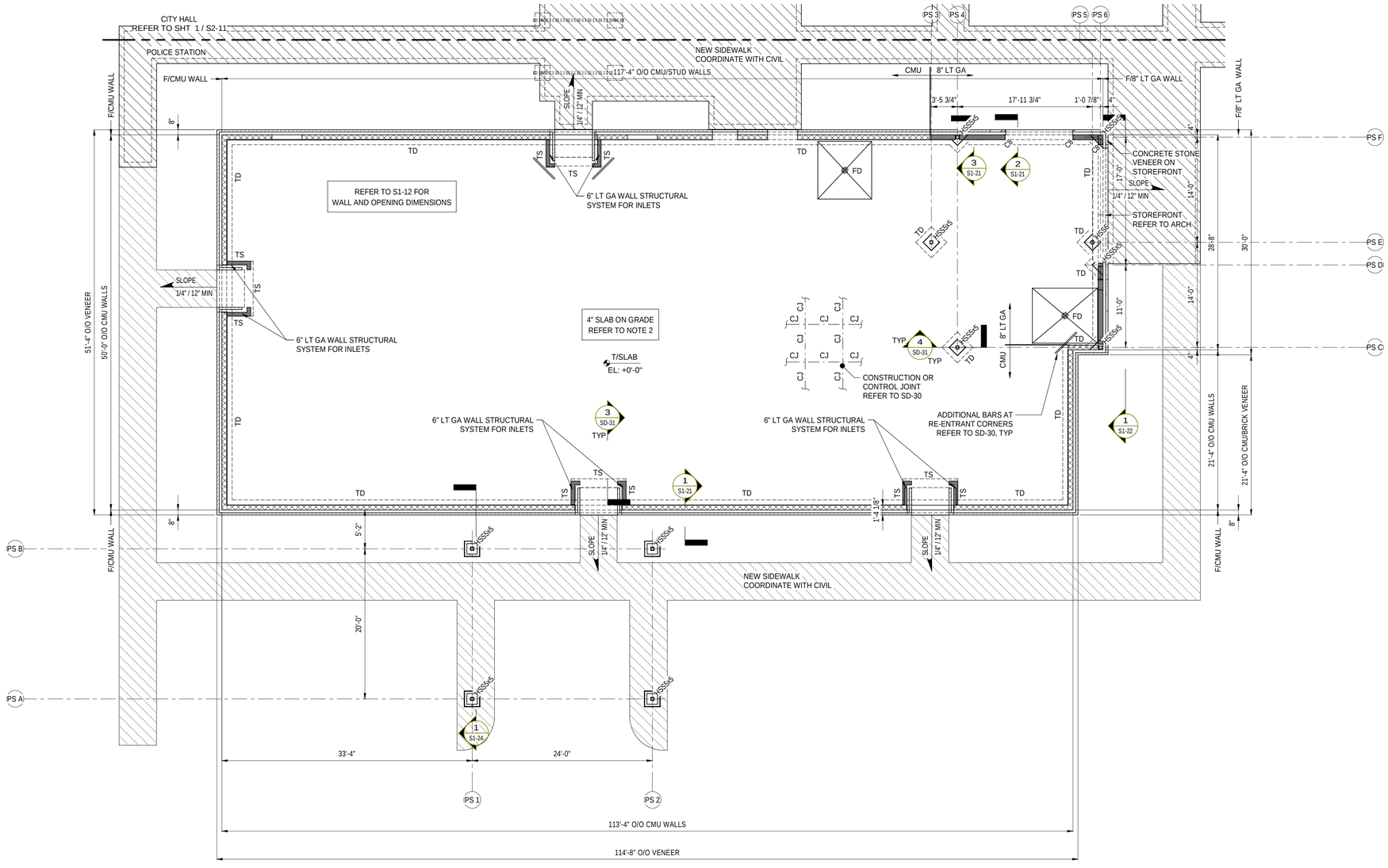

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1 PS - SLAB ON GRADE PLAN

1/8" = 1'-0"

SLAB ON GRADE PLAN NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. SLAB ON GRADE SHALL BE MINIMUM 4" THICK CONCRETE PLACED ON 20 MIL MINIMUM VAPOR BARRIER ON COMPACTED FILL (REFER TO SPEC 072650). REINFORCE SLAB ON GRADE WITH 6x6 x W2.0 x W2.0 WWF IN FLAT SHEETS. DOUBLE THE WWF FOR 3'-0" MINIMUM AROUND SLAB EDGES. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AND REQUIREMENTS. USE CHAIRS TO POSITION REINFORCING 1 1/2" BELOW TOP OF SLAB AND TO MAINTAIN THAT DEPTH DURING CONCRETE PLACEMENT.
3. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
4. COORDINATE ALL SLAB PENETRATION SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. CONTRACTOR SHALL SUBMIT CONTROL / CONSTRUCTION JOINT LOCATION PLAN TO EOR FOR REVIEW PRIOR TO PLACING.
6. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
7. REFER TO SD-40 AND SD-41 FOR CONCRETE MASONRY DETAILS.
8. "+-" INDICATES THICKNESS OF CONCRETE ABOVE T/SLAB.
9. COORDINATE RECESSED SLAB LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
10. SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLAN.

LEGEND

- INDICATES 8" CMU WALL
  REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES LIGHT GAUGE STEEL WALL- SIZE AS INDICATED ON PLAN
  REFER TO SD-52, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS AND WALL SIZE
- INDICATES BRICK VENEER
  REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES CONCRETE STONE VENEER
  REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES COLUMN AND SLAB ISOLATION & CONTROL JOINTS, REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TD — INDICATES TURNDOWN SLAB
  REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TS — INDICATES THICKENED SLAB
  REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- CJ — INDICATES SLAB CONTROL JOINT
  REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- EL: X'-XX" — INDICATES TOP OF SLAB REFERENCE ELEVATION
  REFER TO GENERAL NOTES
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- HSS6 — INDICATES HSS6x3/8 STEEL ROUND COLUMN
- C8 — INDICATES C8x11.5 STEEL CHANNEL JAMB
  REFER TO 7/SD-52
- FD — INDICATES FLOOR DRAIN - SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLANS
- INDICATES APPROXIMATE EXTERIOR SLABS AND SIDEWALKS. REFER TO CIVIL PLANS FOR ACTUAL LAYOUT AND ELEVATIONS

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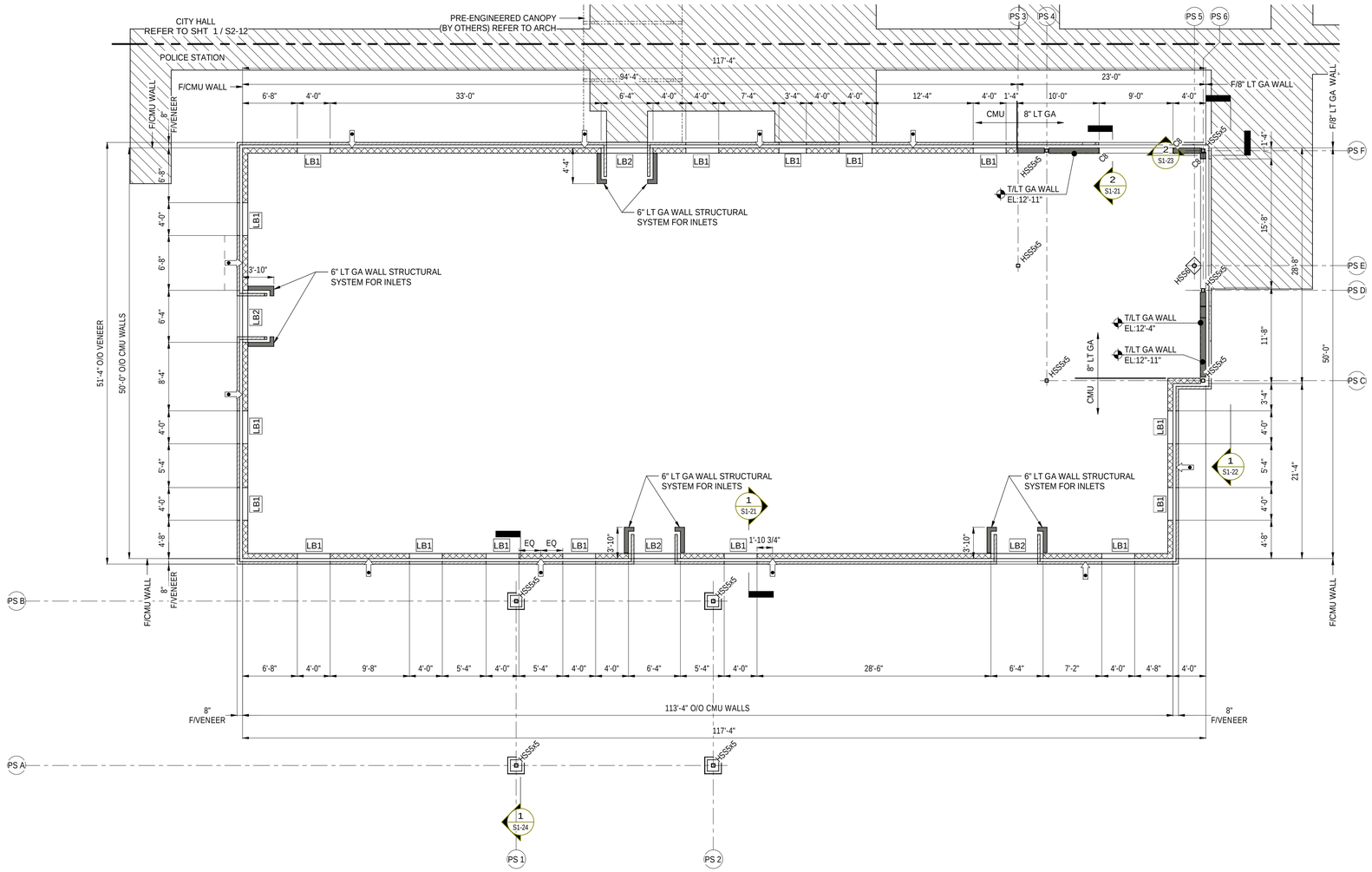
SHEET TITLE:
POLICE STATION SLAB ON GRADE PLAN

SHEET NUMBER:
S1-11



N

1 PS - WALL LAYOUT PLAN

1/8" = 1'-0"

WALL LAYOUT PLAN NOTES:

1. REFER TO GENERAL NOTES SHEET AND TYPICAL CONCRETE MASONRY DETAILS (SHEET SD-40 & SD-41) FOR CMU WALL REINFORCING AND DETAILS.
2. TOP OF CMU WALL ELEVATION = 12'-8" UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SHEET SD-52 FOR LIGHT GAUGE WALL FRAMING NOTES AND DETAILS.
4. COORDINATE ALL WALL OPENING SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

LEGEND

- INDICATES 8" CMU WALL REINFORCE WITH #5 @ 32" OC MAX REFER TO SHEETS SD-40 & SD-41, AND WALL SECTIONS FOR ADDITIONAL REQUIREMENTS
- INDICATES LIGHT GAUGE STEEL WALL- SIZE AS INDICATED ON PLAN REFER TO SHEETS SD-52, AND WALL SECTIONS FOR ADDITIONAL REQUIREMENTS AND WALL SIZE
- INDICATES BRICK VENEER REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES BRICK VENEER REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- HSS6 — INDICATES HSS6x3/8 STEEL ROUND COLUMN
- C8 — INDICATES C8x11.5 STEEL CHANNEL JAMB REFER TO 7/SD-52
- INDICATES MASONRY CONTROL JOINT FULL HEIGHT OF WALL (SPACE @ 24'-0" OC MAX) REFER TO SHEETS SD-40 & SD-41
- LB# — INDICATES LINTEL BEAM TYPE REFER TO LINTEL BEAM SCHEDULE AND TYPICAL CONCRETE MASONRY DETAILS (SHEETS SD-40 & SD-41)

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Surveyors LB - 0000783
MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV	DESCRIPTION

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
POLICE STATION WALL LAYOUT PLAN

SHEET NUMBER:
S1-12

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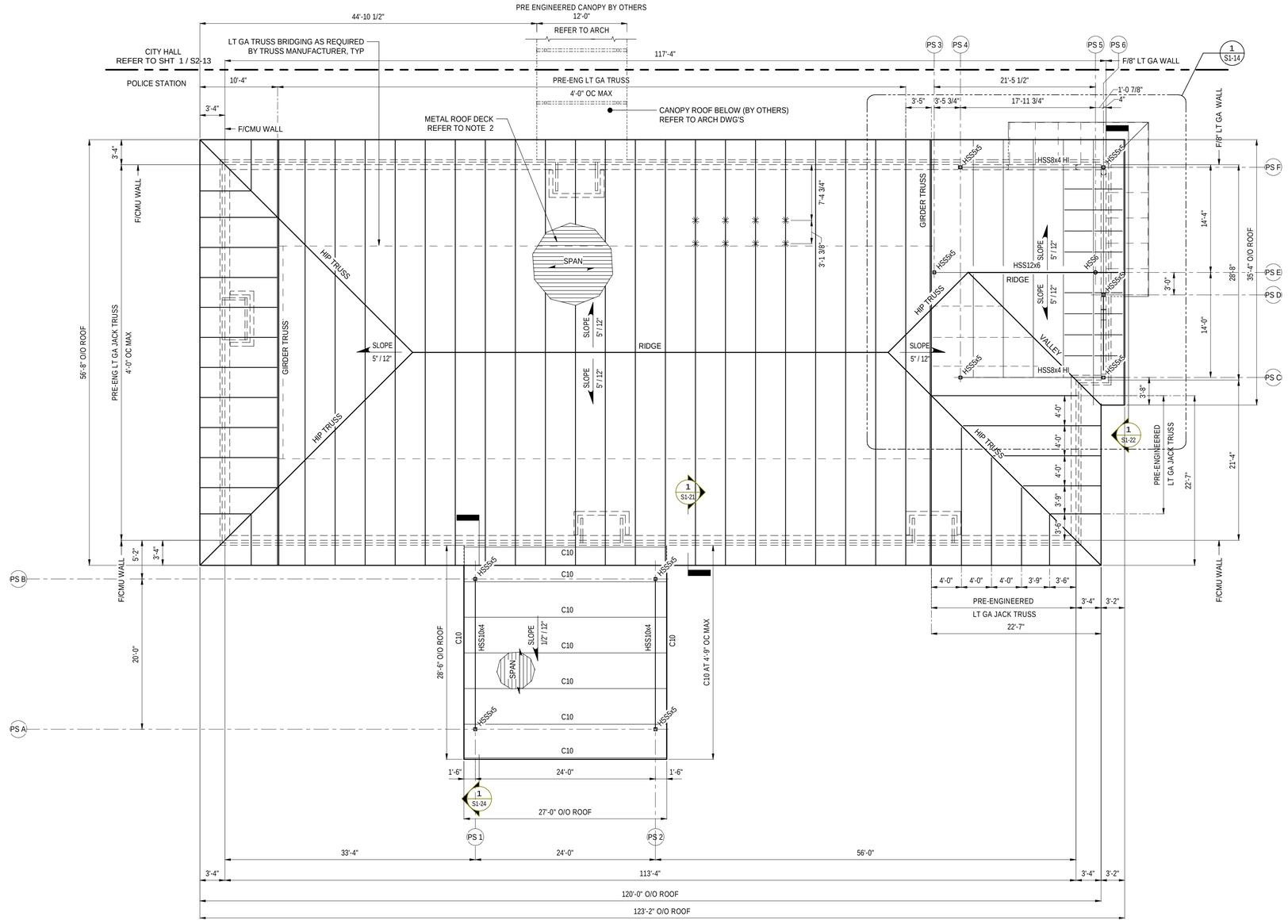

1 PS - ROOF FRAMING PLAN
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. REFER TO PLANS AND SECTIONS FOR TRUSS BEARING AND TOP OF COLUMN AND STEEL FRAMING ELEVATIONS.
2. ROOF DECK SHALL BE VULCRAFT 1.5B 18ga OR EQUIVALENT. ATTACH DECK TO ROOF TRUSSES AND PERIMETER EDGE ANGLES WITH #12 TEK HWH FASTENERS (OR EQUIVALENT) USING 36/7 PATTERN. PROVIDE MINIMUM (4) #10 HWH SIDELAP FASTENERS BETWEEN SUPPORTS. TYPICAL UNLESS OTHERWISE NOTED.
3. REFER TO SD-50, SD-51, & SD-52 FOR TYPICAL TRUSS CONNECTION, TRUSS BLOCKING, AND STEEL DETAILS.
4. COORDINATE ALL ROOF DECK PENETRATION SIZE AND LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. COORDINATE AND VERIFY THE LOCATIONS OF ALL MECHANICAL EQUIPMENT TO BE SUPPORTED BY ROOF TRUSSES.
6. REFER TO WALL PLAN FOR WALL LAYOUT AND TOP OF WALL ELEVATIONS.

LEGEND

	INDICATES WALL BELOW REFER TO WALL LAYOUT PLAN
	INDICATES VENEER REFER TO ARCHITECTURE
HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/8"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL ROUND COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB COLUMN
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING
✳	EQUIPMENT POINT LOAD (125 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL

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SPRINGFIELD, FLORIDA 32401

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Mott MacDonald PROJECT NO: 502100062-005

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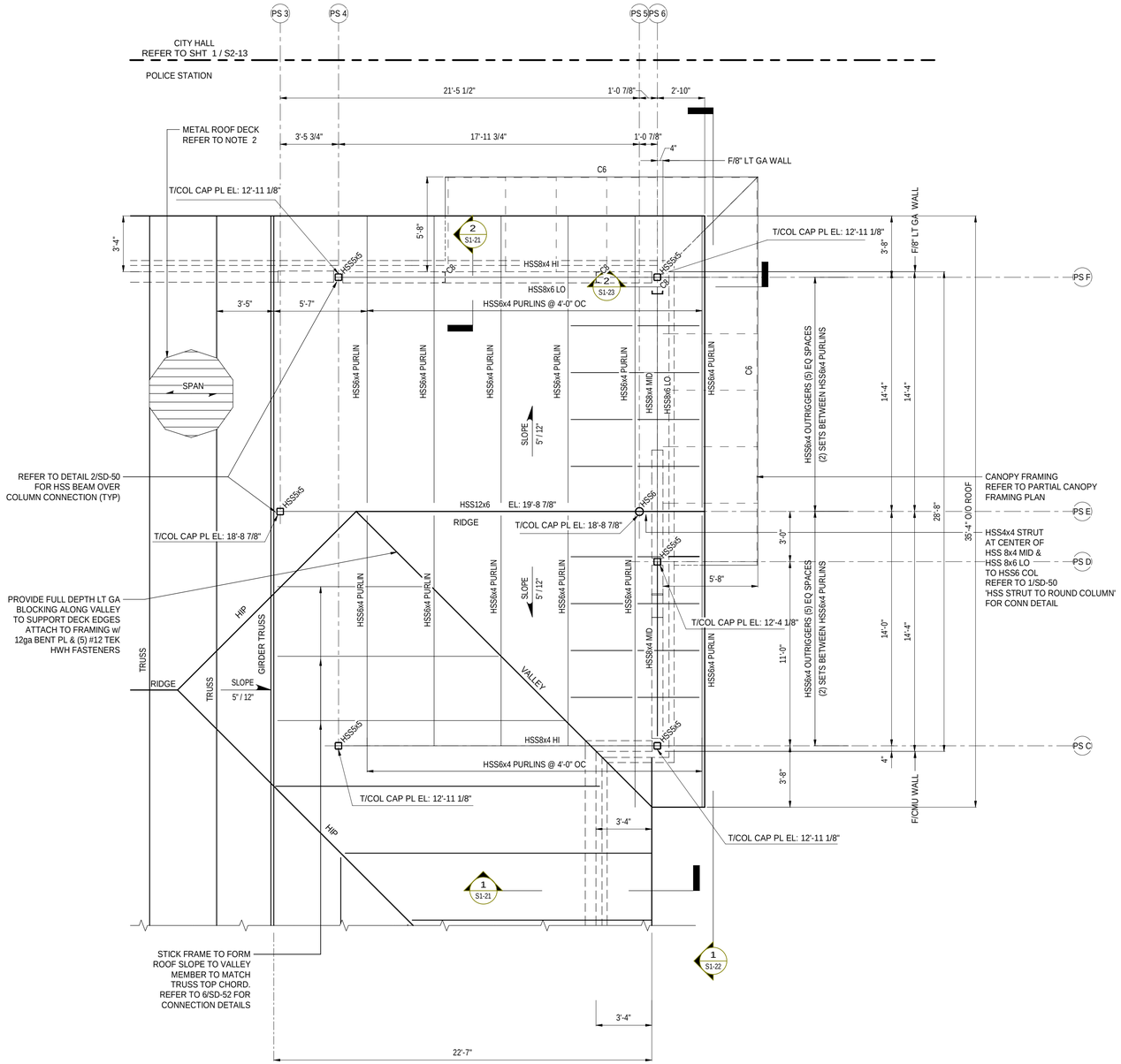
SHEET TITLE:
POLICE STATION ROOF FRAMING PLAN

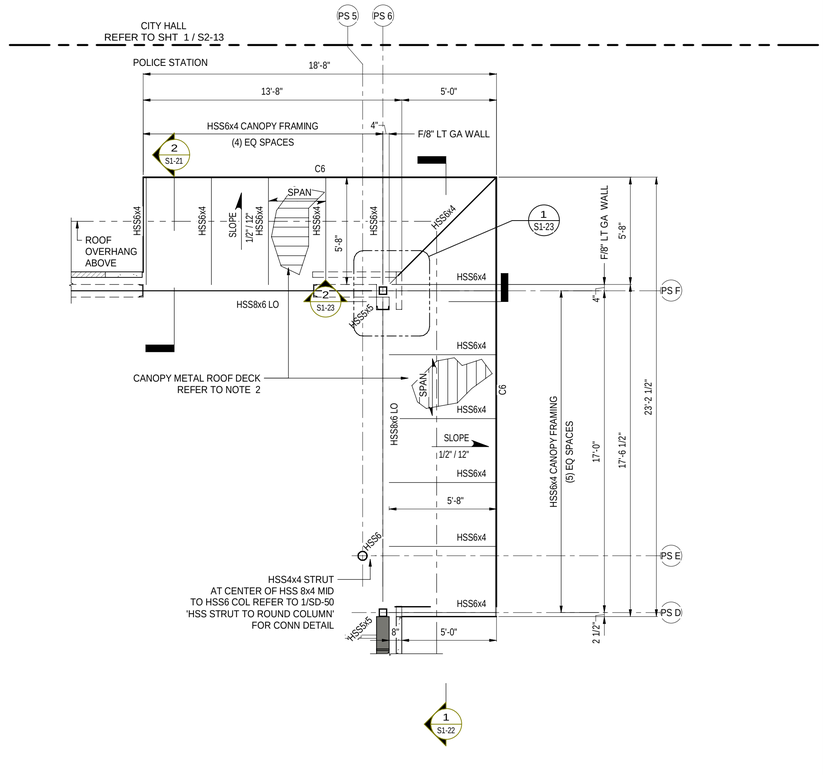
SHEET NUMBER:
S1-13



NOTE:
FOR TUBE TO TUBE CONNECTIONS REFER TO 1/SD-50

N

1 PS - PARTIAL ROOF FRAMING AT ENTRANCE
1/4" = 1'-0"



N

2 PS - CANOPY PARTIAL ROOF FRAMING AT ENTRANCE
1/4" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. REFER TO PLANS AND SECTIONS FOR TRUSS BEARING AND TOP OF COLUMN AND STEEL FRAMING ELEVATIONS.
2. ROOF DECK SHALL BE VULCRAFT 1.5B 18ga OR EQUIVALENT. ATTACH DECK TO ROOF TRUSSES AND PERIMETER EDGE ANGLES WITH #12 TEK HWH FASTENERS (OR EQUIVALENT) USING 36/7 PATTERN. PROVIDE MINIMUM (4) #10 HWH SIDELAP FASTENERS BETWEEN SUPPORTS. TYPICAL UNLESS OTHERWISE NOTED.
3. REFER TO SD-50, SD-51, & SD-52 FOR TYPICAL TRUSS CONNECTION, TRUSS BLOCKING, AND STEEL DETAILS.
4. COORDINATE ALL ROOF DECK PENETRATION SIZE AND LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. COORDINATE AND VERIFY THE LOCATIONS OF ALL MECHANICAL EQUIPMENT TO BE SUPPORTED BY ROOF TRUSSES.
6. REFER TO WALL PLAN FOR WALL LAYOUT AND TOP OF WALL ELEVATIONS.

LEGEND

⊏ = = = = = = ⊐	INDICATES WALL BELOW REFER TO WALL LAYOUT PLAN
⊏ = = = = = = ⊐	INDICATES VENEER REFER TO ARCHITECTURE
HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/8"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL ROUND COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB COLUMN
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING
✳	EQUIPMENT POINT LOAD (125 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL

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SPRINGFIELD CITY COMPLEX

City of Springfield
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DATE	REV	DESCRIPTION

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
POLICE STATION PARTIAL ROOF FRAMING PLANS

SHEET NUMBER:
S1-14

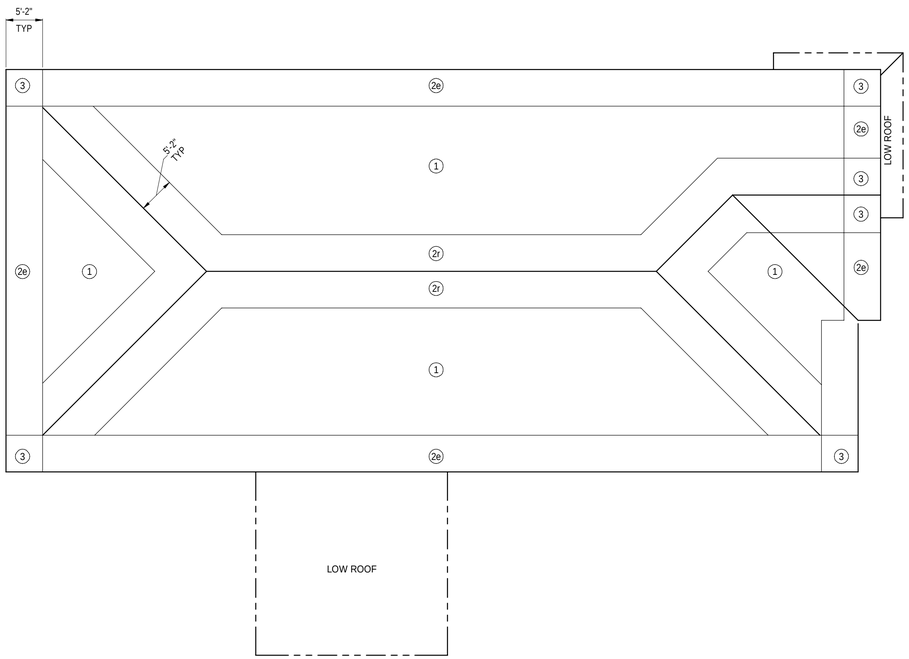
ROOF PRESSURES				
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)		
		POSITIVE	NEGATIVE	ROOF OVERHANG
1	10	14.5	-26.1	N/A
	20	12.5	-23.1	N/A
	50	10.0	-19.1	N/A
	100	10.0	-16.2	N/A
2e	10	14.5	-36.0	-43.4
	50	10.0	-27.1	-39.4
	100	10.0	-23.3	-37.7
	200	10.0	-19.5	-36.0
2r	10	14.5	-36.0	N/A
	50	10.0	-27.1	N/A
	100	10.0	-23.3	N/A
	200	10.0	-19.5	N/A
3	10	14.5	-36.0	-51.4
	50	10.0	-27.1	-45.9
	100	10.0	-23.3	-38.7
	200	10.0	-19.5	-27.7

WALL PRESSURES			
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE
4	10	19.5	-21.1
	50	17.5	-19.1
	200	15.7	-17.3
	500	14.5	-16.2
5	10	19.5	-26.1
	50	17.5	-22.0
	200	15.7	-18.5
	500	14.5	-16.2

NOTES:

1. WALL SECTION 5 EXTENDS FROM THE BUILDING CORNERS A DISTANCE OF 5'-2". WALL SECTION 4 IS THE REMAINDER OF THE WALL.
2. THE TRUSS MANUFACTURER MAY REDUCE NEGATIVE PRESSURE BY 5 PSF TO PRODUCE NET UPLIFT PRESSURE.
3. COMPONENT AND CLADDING PRESSURES SHOWN ARE ALLOWABLE PRESSURES AND MAY NOT BE REDUCED.

PS ROOF & WIND PRESSURES



N

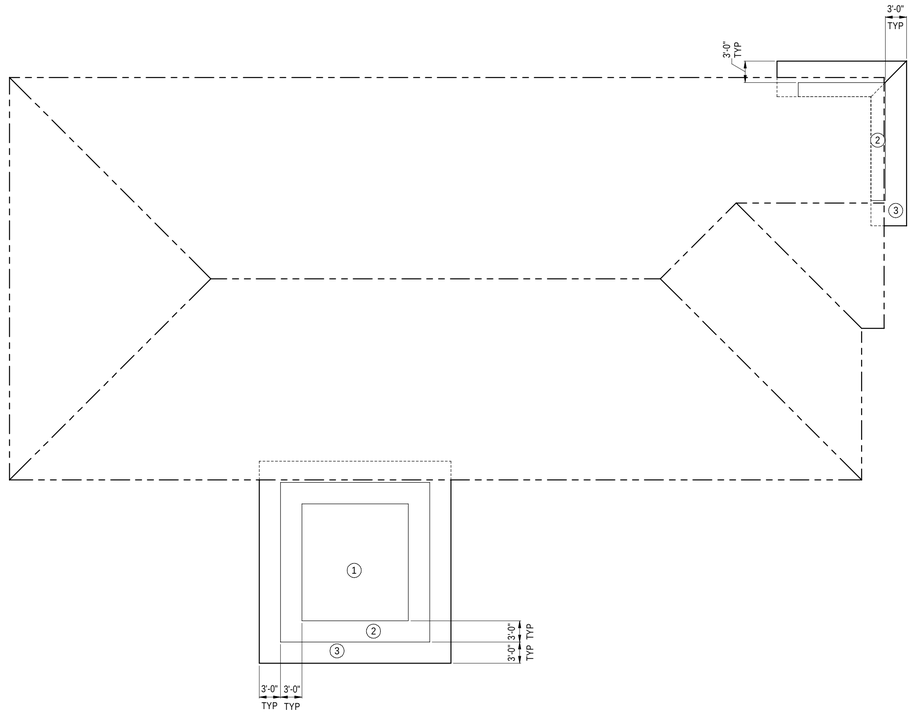
1 PS - ROOF COMPONENT AND CLADDING
3/32" = 1'-0"

ROOF PRESSURES			
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE
1	9	16.2	-14.8
	18	16.2	-14.8
	36	16.2	-14.8
2	9	24.3	-22.9
	18	24.3	-22.9
	36	16.2	-14.8
3	9	32.3	-44.5
	18	24.3	-22.9
	36	16.2	-14.8

NOTES:

1. COMPONENT AND CLADDING PRESSURES SHOWN ARE ALLOWABLE PRESSURES AND MAY NOT BE REDUCED.

ROOF & WIND PRESSURES - LOW ROOF



N

2 PS - LOW ROOF COMPONENT AND CLADDING
3/32" = 1'-0"

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Surveyors LB - 0000193

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION | REV | DATE

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
POLICE STATION ROOF COMPONENT & CLADDING

SHEET NUMBER:
S1-20

8/6/2024 7:56:01 AM 502100062-005 SPRINGFIELD CITY COMPLEX

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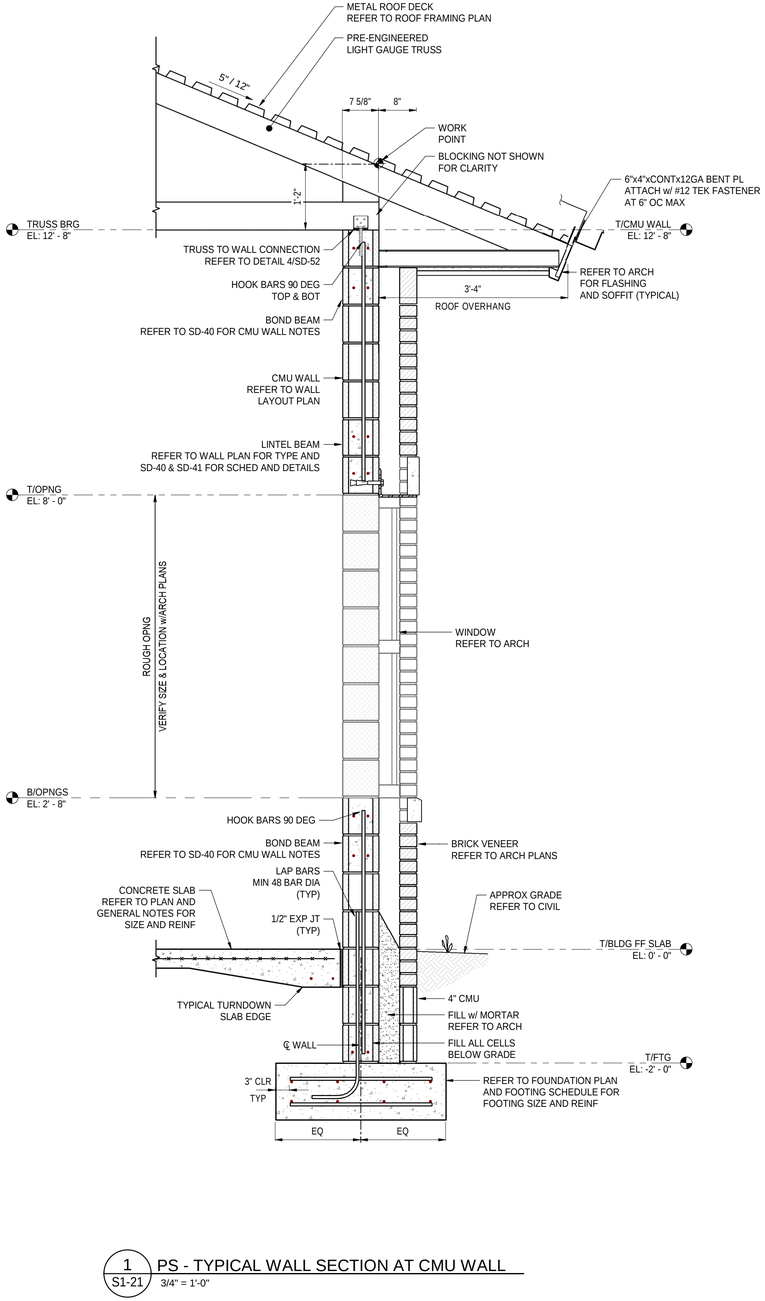
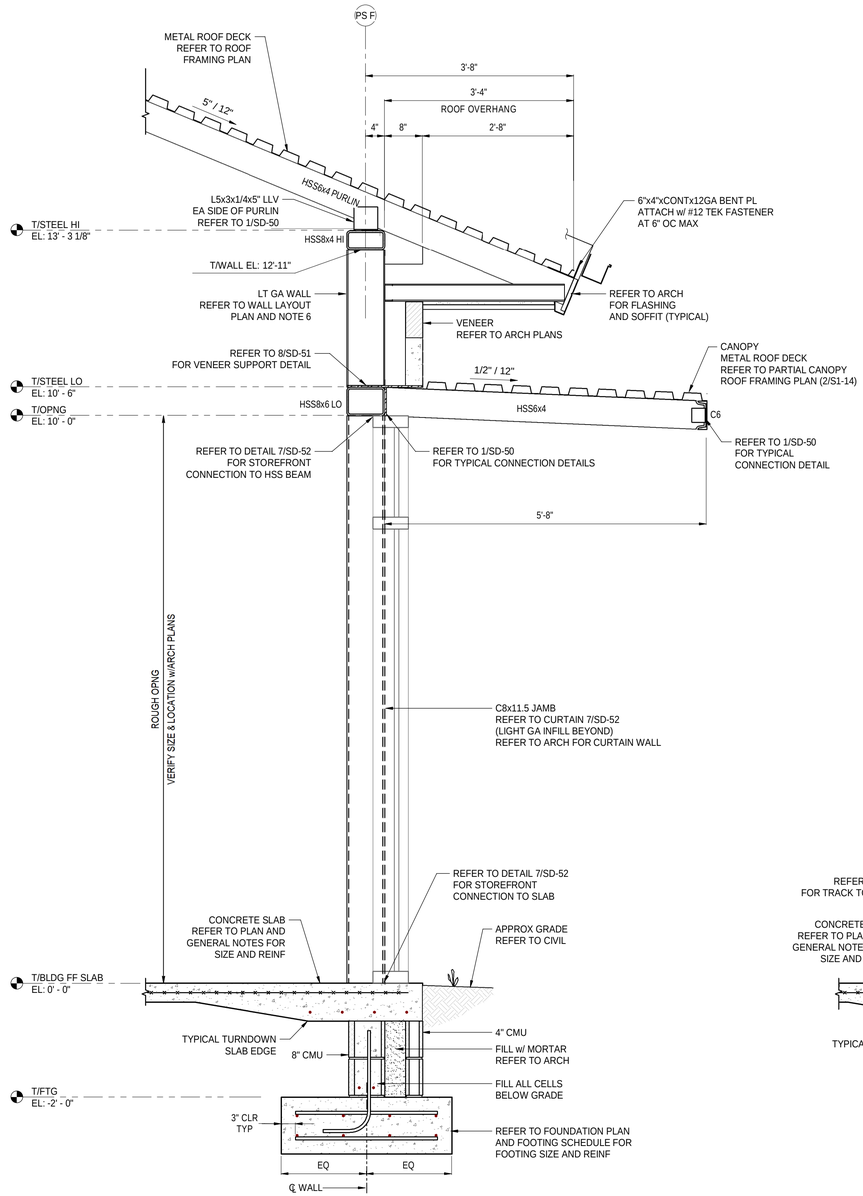


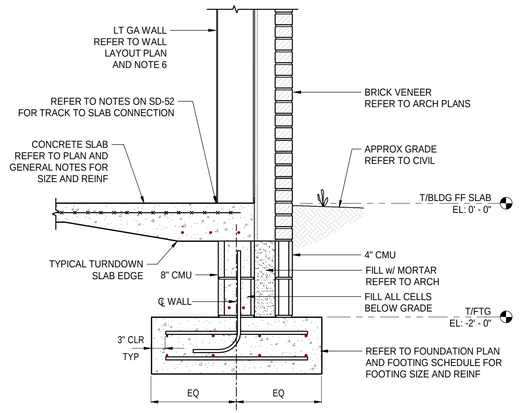
1 S1-21 PS - TYPICAL WALL SECTION AT CMU WALL

3/4" = 1'-0"



2 S1-21 PS - LIGHT GAUGE WALL SECTION AT WALL OPENING

3/4" = 1'-0"



3 S1-21 PS - TYPICAL LIGHT GAUGE WALL SECTION

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/8"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE:	10-3-2023
DESIGNED BY:	MJT
DRAWN BY:	KWD
CHECKED BY:	LJD
PROJECT ENGINEER:	M. TUGWELL
PROJECT MANAGER:	T. JARMAN
Mott MacDonald PROJECT NO:	502100062-005

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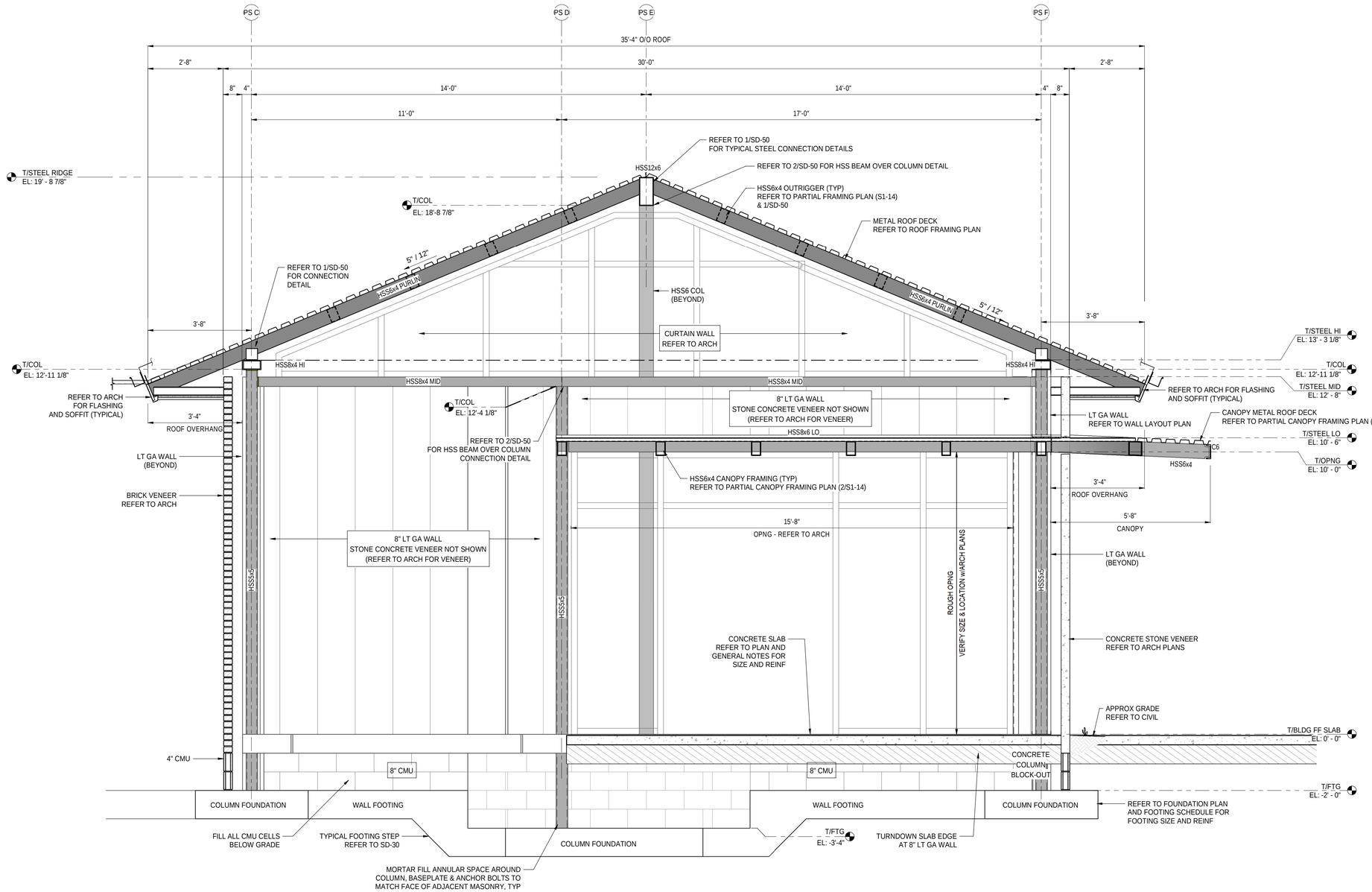
SHEET TITLE:

POLICE STATION
TYPICAL WALL
SECTIONS

SHEET NUMBER:

S1-21



1 PS - SECTION AT ENTRANCE

1/2" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/8"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING

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SPRINGFIELD CITY COMPLEX

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DESCRIPTION	DATE	REV

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PROJECT MANAGER:	T. JARMAN
Mott MacDonald PROJECT NO:	502100062-005

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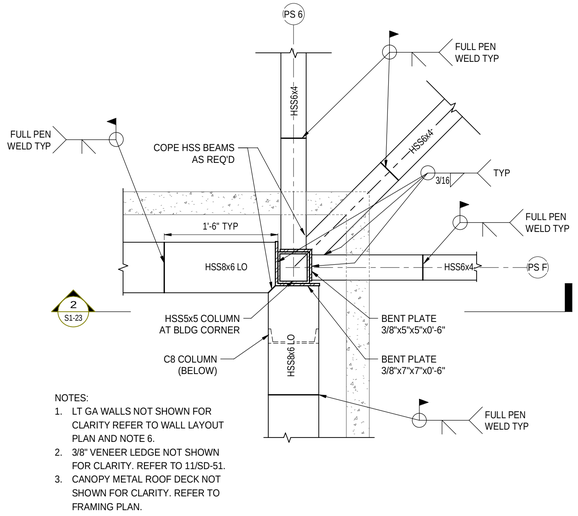
SHEET TITLE:

POLICE STATION BUILDING SECTION AT ENTRANCE

SHEET NUMBER:

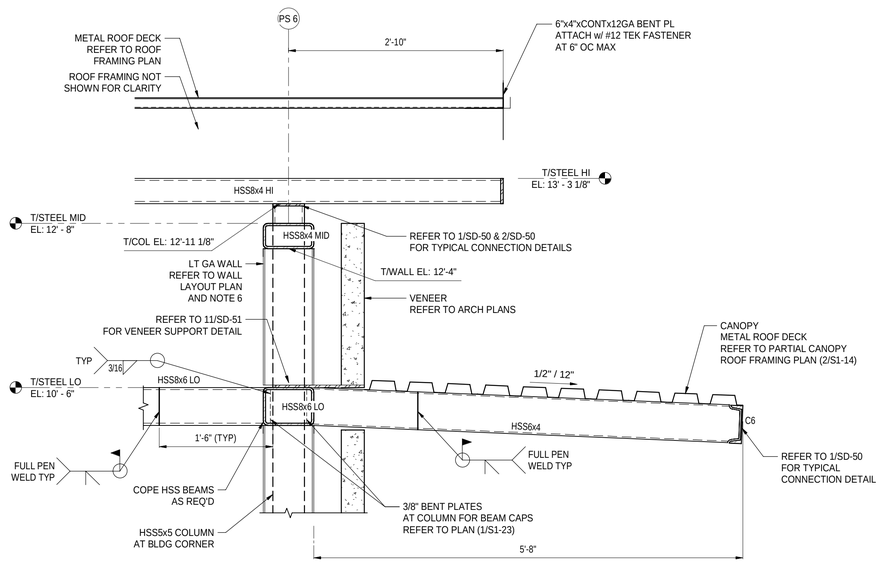
S1-22

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION



NOTES:
1. LT GA WALLS NOT SHOWN FOR CLARITY REFER TO WALL LAYOUT PLAN AND NOTE 6.
2. 3/8" VENEER LEDGE NOT SHOWN FOR CLARITY. REFER TO 11/SD-51.
3. CANOPY METAL ROOF DECK NOT SHOWN FOR CLARITY. REFER TO FRAMING PLAN.

1 S1-23 PS - COLUMN CONNETION PLAN AT EL: 10'-0"
1" = 1'-0"



2 S1-23 PS - CORNER COLUMN TO HSS SECTION
1" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/8"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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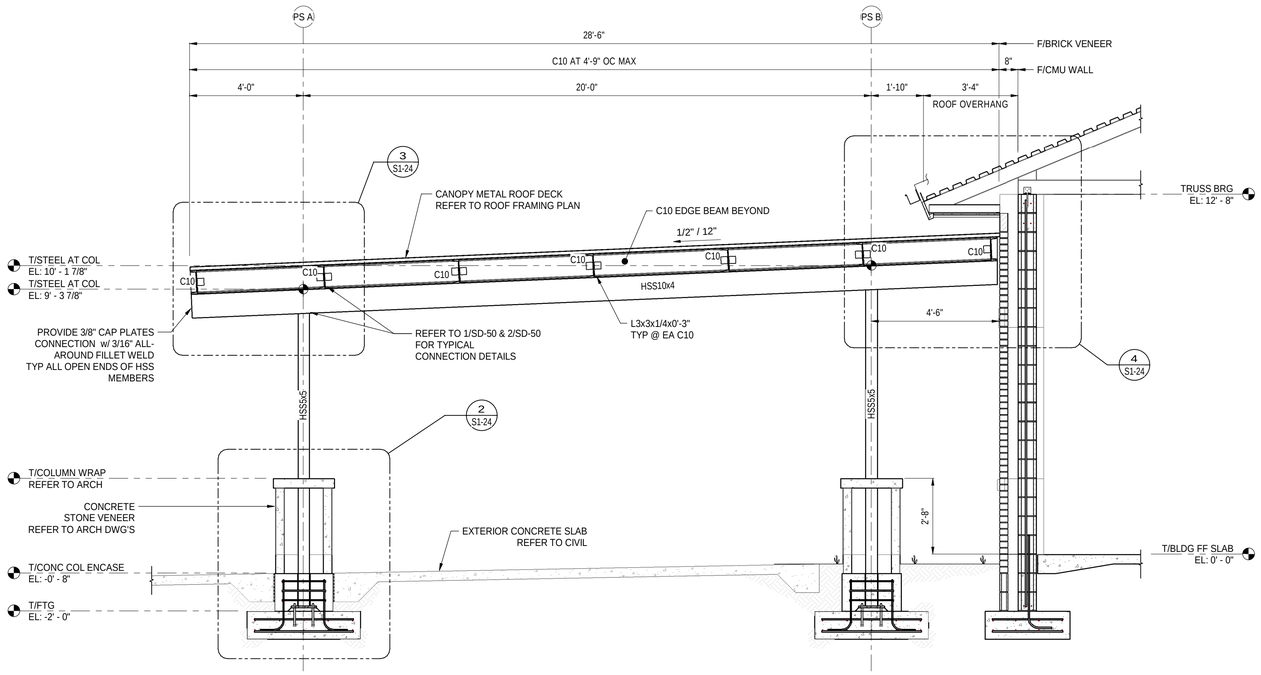
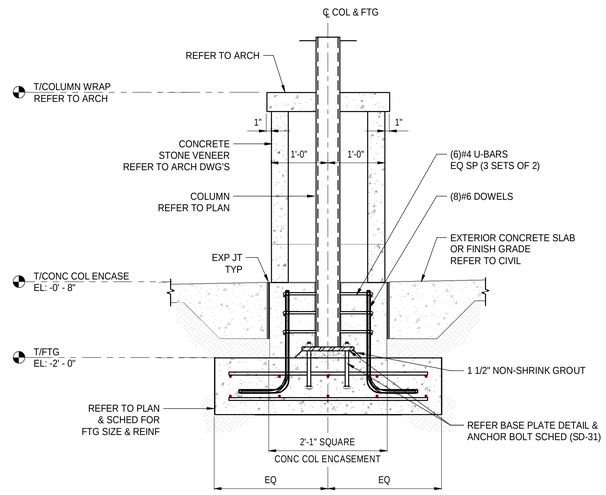
SHEET TITLE:
POLICE STATION BUILDING STEEL FRAMING DETAILS

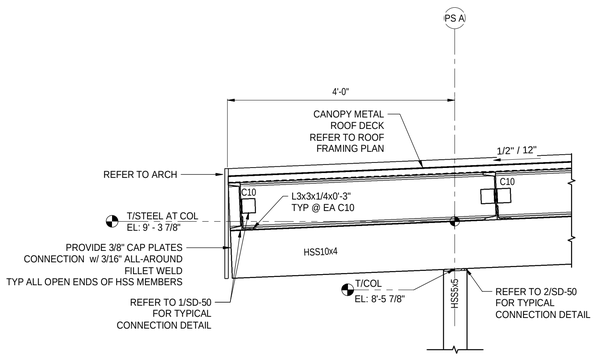
SHEET NUMBER:
S1-23



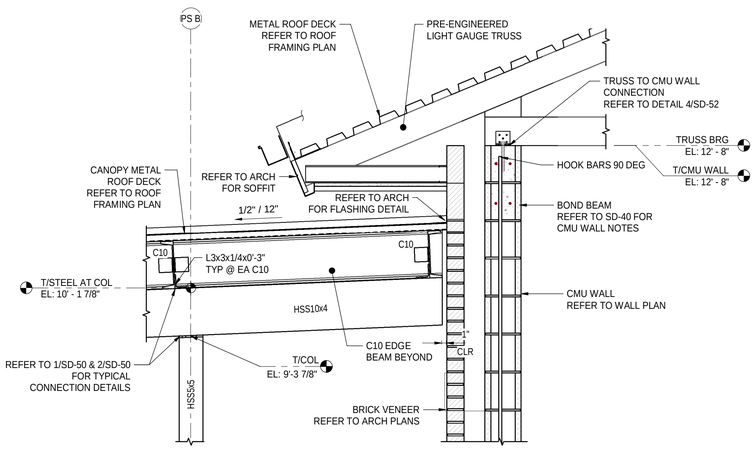
1 S1-24 PS - SECTION AT PARKING CANOPY
3/8" = 1'-0"



2 S1-24 PS - SECTION AT COLUMN FOUNDATION - PARKING CANOPY
3/4" = 1'-0"



3 S1-24 PS - SECTION AT COLUMN AND ROOF FRAMING - PARKING CANOPY
3/4" = 1'-0"



4 S1-24 PS - SECTION AT BRICK VENEER AND ROOF - PARKING CANOPY
3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/8"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING

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SPRINGFIELD CITY COMPLEX

City of Springfield
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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

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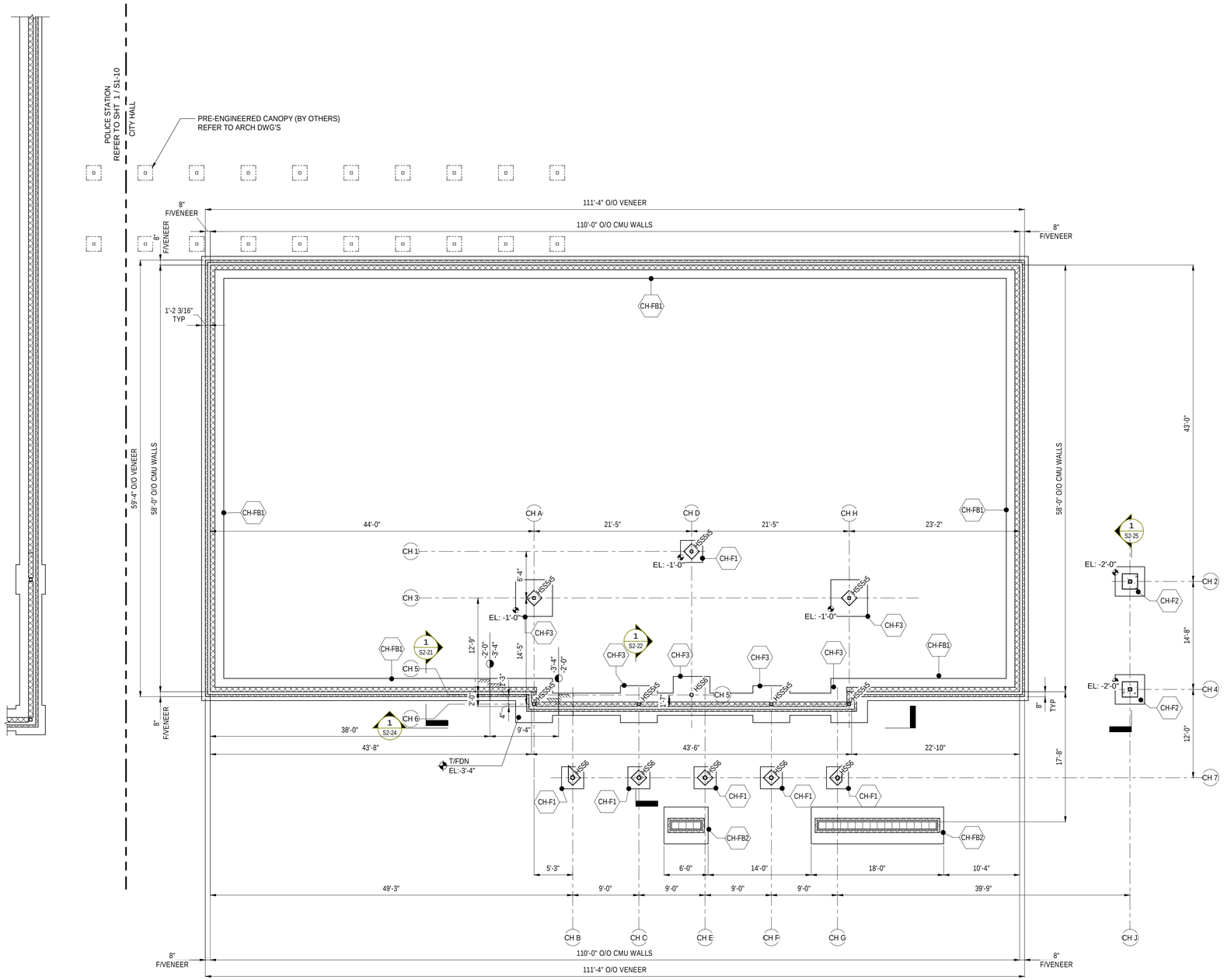
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

SHEET TITLE:
POLICE STATION COVERED PARKING CANOPY SECTIONS

SHEET NUMBER:
S1-24



1 CH - FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE

MARK	SIZE SHORT x LONG x THICKNESS	TOP		BOTTOM		REMARKS
		SHORT	LONG	SHORT	LONG	
CH-F1	3'-0" x 3'-0" x 1'-0"	(4)#5	(4)#5	(4)#5	(4)#5	
CH-F2	4'-0" x 4'-0" x 1'-0"	(5)#5	(5)#5	(5)#5	(5)#5	
CH-F3	5'-0" x 5'-0" x 1'-0"	(6)#5	(6)#5	(6)#5	(6)#5	
CH-FB1	3'-0" x CONT x 1'-0"	#5@8" OC	(4)#5 CONT	#5@8" OC	(4)#5 CONT	
CH-FB2	5'-0" x CONT x 1'-6"	#5@8" OC	(6)#6 CONT	#5@8" OC	(6)#6 CONT	

FOUNDATION PLAN NOTES:

1. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR CITY HALL BUILDING STRUCTURAL PLANS.
2. TOP OF FOUNDATION ELEVATION= -2'-0", UNLESS OTHERWISE NOTED.
3. REFER TO SD-30 AND SD-31 FOR FOUNDATION DETAILS.
4. REFER TO SD-31 FOR BASE PLATE AND ANCHOR BOLT DETAILS.
5. CENTER ALL COLUMNS ON FOUNDATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SD-40 AND SD-41 FOR CMU WALL TYPICAL DETAILS.
7. START AND END REINFORCING WITH CLEAR COVER NOT TO EXCEED MINIMUM ALLOWED COVER ON ALL SIDES OF FOOTING. REMAINDER OF REINFORCING SHALL BE PLACED WITHOUT EXCEEDING SPACING SHOWN IN SCHEDULE.
8. LONG REINFORCING REFERS TO THE LONGER LENGTH BARS PLACED ACROSS THE SHORT SIDE. SHORT REINFORCING REFERS TO THE SHORTER LENGTH BARS PLACED ACROSS THE LONG SIDE.
9. FOOTING SIZE SHOWN IS A MAXIMUM OUTSIDE DIMENSIONS AND THICKNESS. REFER TO PLAN FOR ACTUAL SHAPE AND ORIENTATION.
10. EXTEND LONGITUDINAL FOOTING REINFORCING INTO ADJACENT FOOTING WITH MIN. CLASS 'B' LAP SPLICE.
11. REFER TO ARCH., CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR COORDINATION.

LEGEND

- INDICATES 8" CMU WALL — REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES 12" CMU WALL — REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES 4" CMU VENEER — REFER TO ARCHITECTURAL DRAWINGS
- F# — INDICATES FOUNDATION TYPE — REFER TO FOOTING SCHEDULE AND SHEETS SD-30 & SD-31
- EL: X'-XX" — INDICATES TOP OF FOOTING REFERENCE ELEVATION — REFER TO GENERAL NOTES
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN — REFER TO 6/SD-31 FOR BASE PLATE DETAIL & ANCHOR BOLT SCHEDULE
- HSS6 — INDICATES HSS6x3/8 STEEL COLUMN — REFER TO 6/SD-31 FOR BASE PLATE DETAIL & ANCHOR BOLT SCHEDULE
- UPPER EL / STEP DN EL — INDICATES FOOTING STEP — REFER TO SD-30

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
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DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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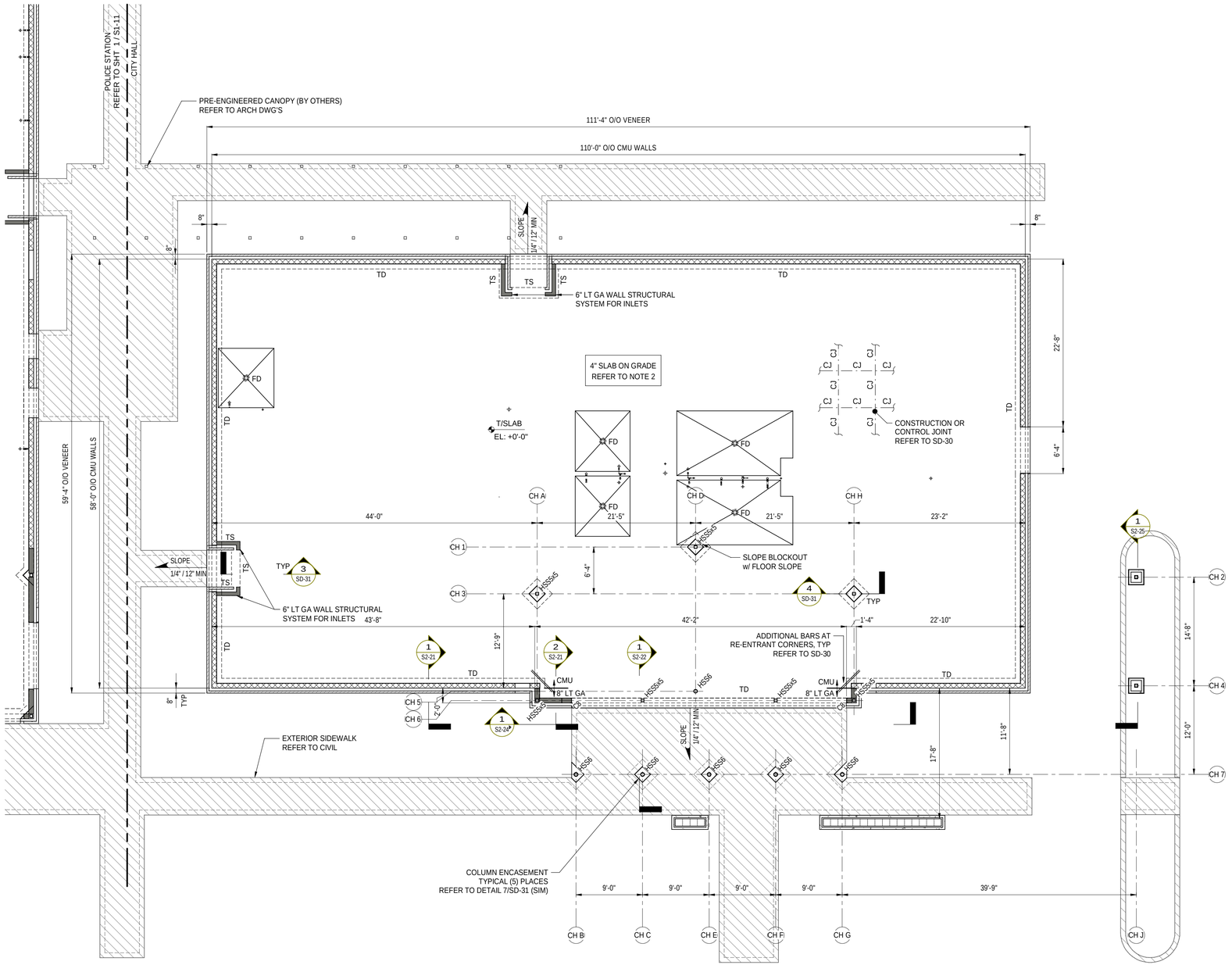
SHEET TITLE:
CITY HALL FOUNDATION PLAN

SHEET NUMBER:
S2-10

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:09 AM

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION



1 CH - SLAB ON GRADE PLAN

1/8" = 1'-0"

SLAB ON GRADE PLAN NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. SLAB ON GRADE SHALL BE MINIMUM 4" THICK CONCRETE PLACED ON 20 MIL MINIMUM VAPOR BARRIER ON COMPACTED FILL (REFER TO SPEC 072650). REINFORCE SLAB ON GRADE WITH 6x6 - W2.0 x W2.0 WWF IN FLAT SHEETS. DOUBLE THE WWF FOR 3'-0" MINIMUM AROUND SLAB EDGES. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AND REQUIREMENTS. USE CHAIRS TO POSITION REINFORCING 1 1/2" BELOW TOP OF SLAB AND TO MAINTAIN THAT DEPTH DURING CONCRETE PLACEMENT.
3. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
4. COORDINATE ALL SLAB PENETRATION SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. CONTRACTOR SHALL SUBMIT CONTROL / CONSTRUCTION JOINT LOCATION PLAN TO EOR FOR REVIEW PRIOR TO PLACING.
6. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
7. REFER TO SD-40 AND SD-41 FOR CONCRETE MASONRY DETAILS.
8. "+-" INDICATES THICKNESS OF CONC ABOVE T/SLAB.
9. COORDINATE RECESSED SLAB LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
10. SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLAN.

LEGEND

- INDICATES 8" CMU WALL
  REFER TO SD-40, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES 12" CMU WALL
  REFER TO SD-40, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES LIGHT GAUGE STEEL WALL- SIZE AS INDICATED ON PLAN
  REFER TO SD-52, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS AND WALL SIZE
- INDICATES BRICK VENEER
  REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES CONCRETE STONE VENEER
  REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES COLUMN AND SLAB ISOLATION & CONTROL JOINTS, REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TD — INDICATES TURNDOWN SLAB
  REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TS — INDICATES THICKENED SLAB
  REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- CJ — INDICATES SLAB CONTROL JOINT
  REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- EL: X'-XX" — INDICATES TOP OF SLAB REFERENCE ELEVATION
  REFER TO GENERAL NOTES
- HSS5x5 — INDICATES HSS5x3/8 STEEL COLUMN
- HSS6 — INDICATES HSS6x3/8 STEEL COLUMN
- C8 — INDICATES C8x11.5 STEEL CHANNEL JAMB
  REFER TO 7/SD-52
- FD — INDICATES FLOOR DRAIN - SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLANS
- INDICATES APPROXIMATE EXTERIOR SLABS AND SIDEWALKS. REFER TO CIVIL PLANS FOR ACTUAL LAYOUT AND ELEVATIONS

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE:	10-3-2023
DESIGNED BY:	MJT
DRAWN BY:	KWD
CHECKED BY:	LJD
PROJECT ENGINEER:	M. TUGWELL
PROJECT MANAGER:	T. JARMAN
Mott MacDonald PROJECT NO:	502100062-005

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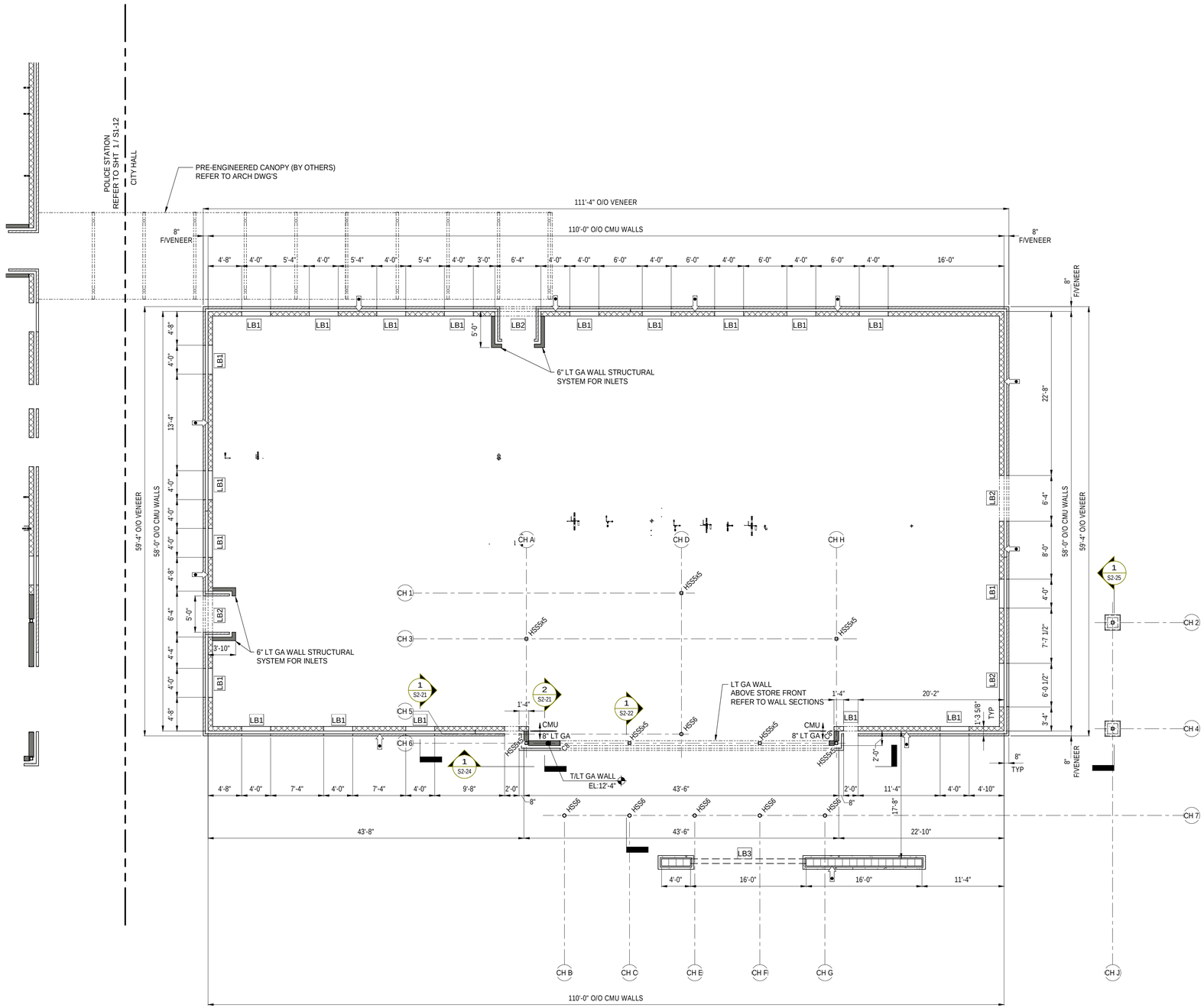
SHEET TITLE:
CITY HALL
SLAB ON GRADE PLAN

SHEET NUMBER:
S2-11



WALL LAYOUT PLAN NOTES:

1. REFER TO GENERAL NOTES SHEET AND TYPICAL CONCRETE MASONRY DETAILS (SHEET SD-40 & SD-41) FOR CMU WALL REINFORCING AND DETAILS.
2. TOP OF CMU WALL ELEVATION = 12'-8" UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SHEET SD-52 FOR LIGHT GAUGE WALL FRAMING NOTES AND DETAILS.
4. COORDINATE ALL WALL OPENING SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

LEGEND

- INDICATES 8" CMU WALL
  REINFORCE WITH #5 @ 32" OC MAX
  REFER TO SHEETS SD-40 & SD-41, AND WALL SECTIONS
  FOR ADDITIONAL REQUIREMENTS
- INDICATES 12" CMU WALL
  REINFORCE WITH (2) #5 @ 8" - SINGLY REINF ABOVE 32"
  REFER TO SHEETS SD-40 & SD-41, AND WALL SECTIONS
  FOR ADDITIONAL REQUIREMENTS
- INDICATES LIGHT GAUGE STEEL WALL- SIZE AS INDICATED ON PLAN
  REFER TO SHEETS SD-52, AND WALL SECTIONS
  FOR ADDITIONAL REQUIREMENTS AND WALL SIZE
- INDICATES BRICK VENEER
  REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES BRICK VENEER
  REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- HSS6 — INDICATES HSS6x3/8 STEEL ROUND COLUMN
- C8 — INDICATES C8x11.5 STEEL CHANNEL JAMB
  REFER TO 7/SD-52
- INDICATES MASONRY CONTROL JOINT
  FULL HEIGHT OF WALL (SPACE @ 24'-0" OC MAX)
  REFER TO SHEETS SD-40 & SD-41
- LB# — INDICATES LINTEL BEAM TYPE
  REFER TO LINTEL BEAM SCHEDULE AND TYPICAL
  CONCRETE MASONRY DETAILS (SHEETS SD-40 & SD-41)

Z 1 CH - WALL LAYOUT PLAN
1/8" = 1'-0"

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City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

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DATE: 10-3-2023
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PROJECT MANAGER: T. JARMAN
Matt MacDonald PROJECT NO: 502100062-005

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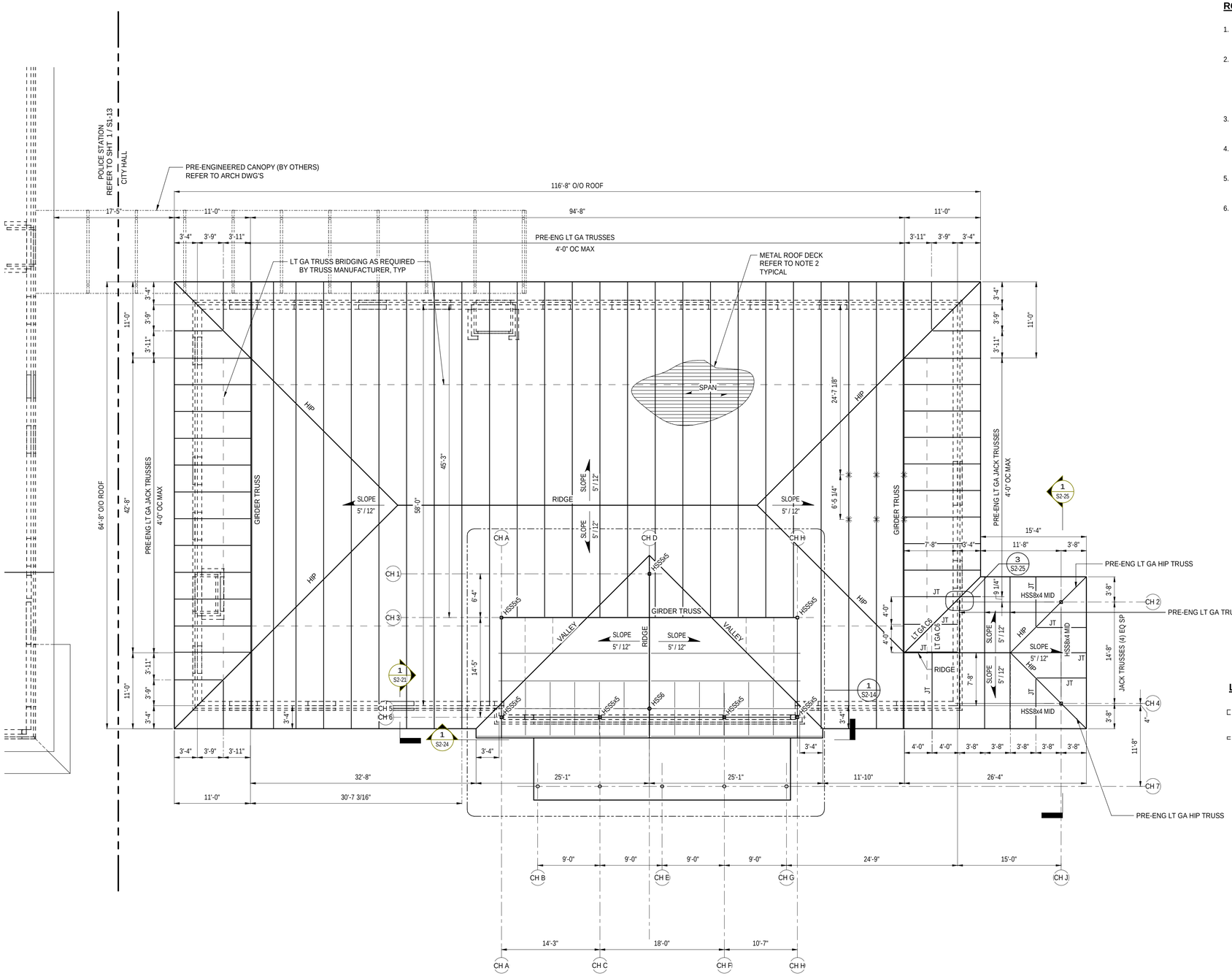
SHEET TITLE:
CITY HALL WALL LAYOUT PLAN

SHEET NUMBER:
S2-12

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:11 AM

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION



ROOF FRAMING PLAN NOTES:

1. REFER TO PLANS AND SECTIONS FOR TRUSS BEARING AND TOP OF COLUMN AND STEEL FRAMING ELEVATIONS.
2. ROOF DECK SHALL BE VULCRAFT 1.5B 18ga OR EQUIVALENT. ATTACH DECK TO ROOF TRUSSES AND PERIMETER EDGE ANGLES WITH #12 TEK HWH FASTENERS (OR EQUIVALENT) USING 36/7 PATTERN. PROVIDE MINIMUM (4) #10 HWH SIDELAP FASTENERS BETWEEN SUPPORTS. TYPICAL UNLESS OTHERWISE NOTED.
3. REFER TO SD-50, SD-51, & SD-52 FOR TYPICAL TRUSS CONNECTION, TRUSS BLOCKING, AND STEEL DETAILS.
4. COORDINATE ALL ROOF DECK PENETRATION SIZE AND LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. COORDINATE AND VERIFY THE LOCATIONS OF ALL MECHANICAL EQUIPMENT TO BE SUPPORTED BY ROOF TRUSSES.
6. REFER TO WALL PLAN FOR WALL LAYOUT AND TOP OF WALL ELEVATIONS.

LEGEND

	INDICATES WALL BELOW REFER TO WALL LAYOUT PLAN
	INDICATES VENEER REFER TO ARCHITECTURE
HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/2"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL ROUND COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB COLUMN
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING
JT	INDICATES PRE-ENGINEERED LIGHT GAUGE JACK TRUSS
✳	EQUIPMENT POINT LOAD (125 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL

1 CH - ROOF FRAMING PLAN

1/8" = 1'-0"

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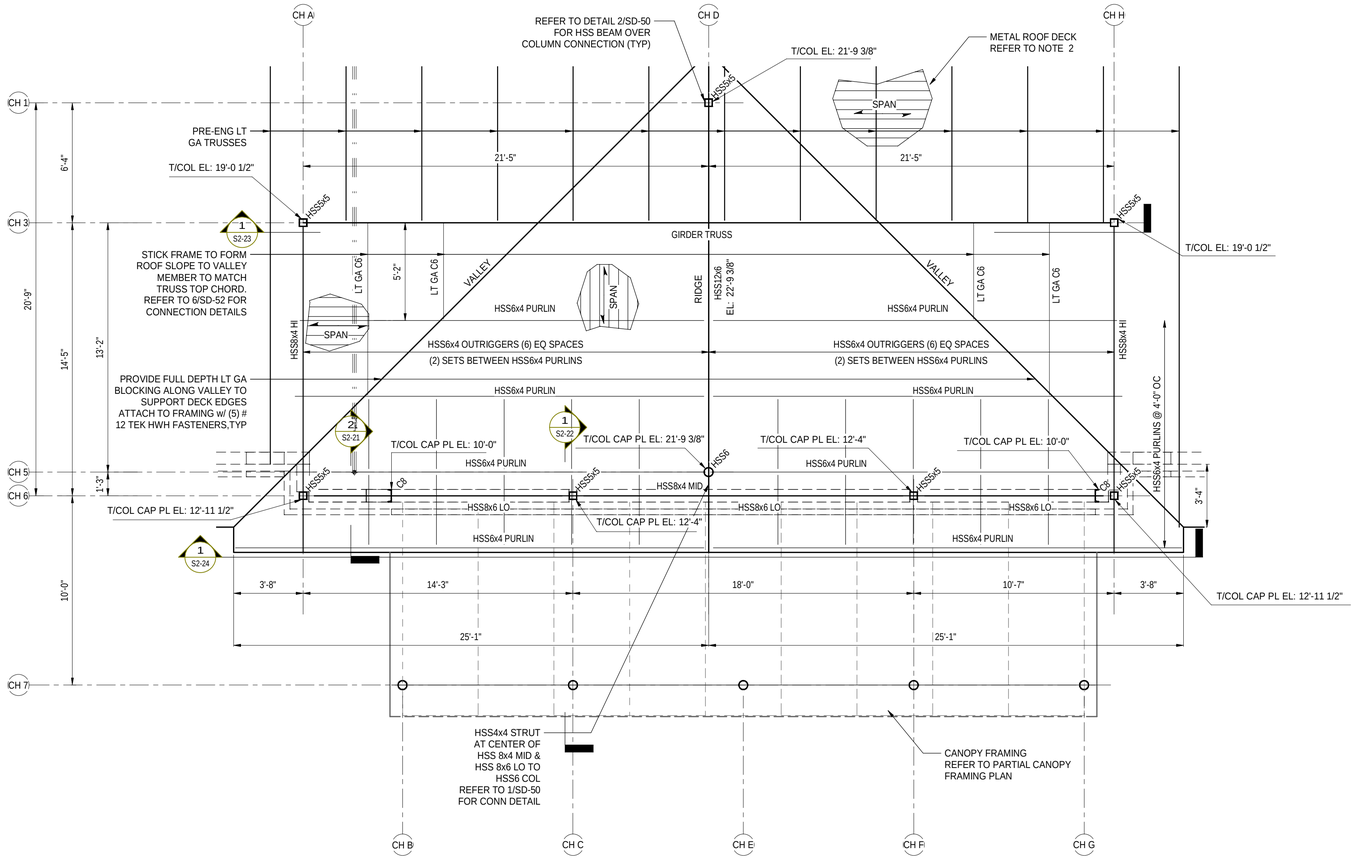
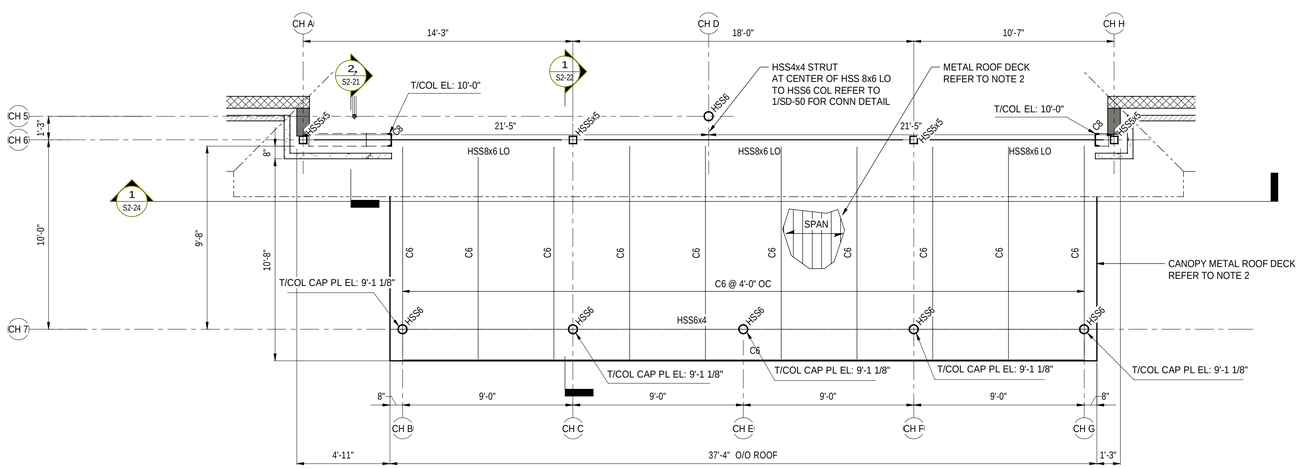
SHEET TITLE:
CITY HALL ROOF FRAMING PLAN

SHEET NUMBER:
S2-13



1 CH - PARTIAL ROOF FRAMING PLAN AT ENTRANCE

1/4" = 1'-0"



2 CH - PARTIAL CANOPY ROOF FRAMING PLAN AT ENRTANCE

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. REFER TO PLANS AND SECTIONS FOR TRUSS BEARING AND TOP OF COLUMN AND STEEL FRAMING ELEVATIONS.
2. ROOF DECK SHALL BE VULCRAFT 1.5B 18ga OR EQUIVALENT. ATTACH DECK TO ROOF TRUSSES AND PERIMETER EDGE ANGLES WITH #12 TEK HWH FASTENERS (OR EQUIVALENT) USING 36/7 PATTERN. PROVIDE MINIMUM (4) #10 HWH SIDELAP FASTENERS BETWEEN SUPPORTS. TYPICAL UNLESS OTHERWISE NOTED.
3. REFER TO SD-50, SD-51, & SD-52 FOR TYPICAL TRUSS CONNECTION, TRUSS BLOCKING, AND STEEL DETAILS.
4. COORDINATE ALL ROOF DECK PENETRATION SIZE AND LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. COORDINATE AND VERIFY THE LOCATIONS OF ALL MECHANICAL EQUIPMENT TO BE SUPPORTED BY ROOF TRUSSES.
6. REFER TO WALL PLAN FOR WALL LAYOUT AND TOP OF WALL ELEVATIONS.

LEGEND

⊏ = = = = = ⊐	INDICATES WALL BELOW REFER TO WALL LAYOUT PLAN
⊏ = = = = = ⊐	INDICATES VENEER REFER TO ARCHITECTURE
HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/2"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL ROUND COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB COLUMN
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING
JT	INDICATES PRE-ENGINEERED LIGHT GAUGE JACK TRUSS
✳	EQUIPMENT POINT LOAD (125 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL

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Surveyors LB - 0000183

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV	DESCRIPTION

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
CITY HALL
PARTIAL ROOF
FRAMING PLANS

SHEET NUMBER:
S2-14

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:12 AM

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GABLE ROOF PRESSURES

ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)		
		POSITIVE	NEGATIVE	ROOF OVERHANG
1	10	14.2	-25.4	N/A
	20	12.2	-22.5	N/A
	50	10.0	-18.7	N/A
	100	10.0	-15.7	N/A
2e	10	14.2	-35.0	-42.2
	50	10.0	-26.4	-38.3
	100	10.0	-22.7	-36.7
	200	10.0	-19.0	-35.0
2r	10	14.2	-35.0	N/A
	50	10.0	-26.4	N/A
	100	10.0	-22.7	N/A
	200	10.0	-19.0	N/A
3	10	14.2	-35.0	-50.0
	50	10.0	-26.4	-37.6
	100	10.0	-22.7	-32.3
	200	10.0	-19.0	-27.0

WALL PRESSURES

ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE
4	10	19.0	-20.6
	50	17.0	-18.6
	200	15.2	-16.9
	500	14.2	-15.7
5	10	19.0	-25.4
	50	17.0	-21.4
	200	15.2	-18.0
	500	14.2	-15.7

NOTES:

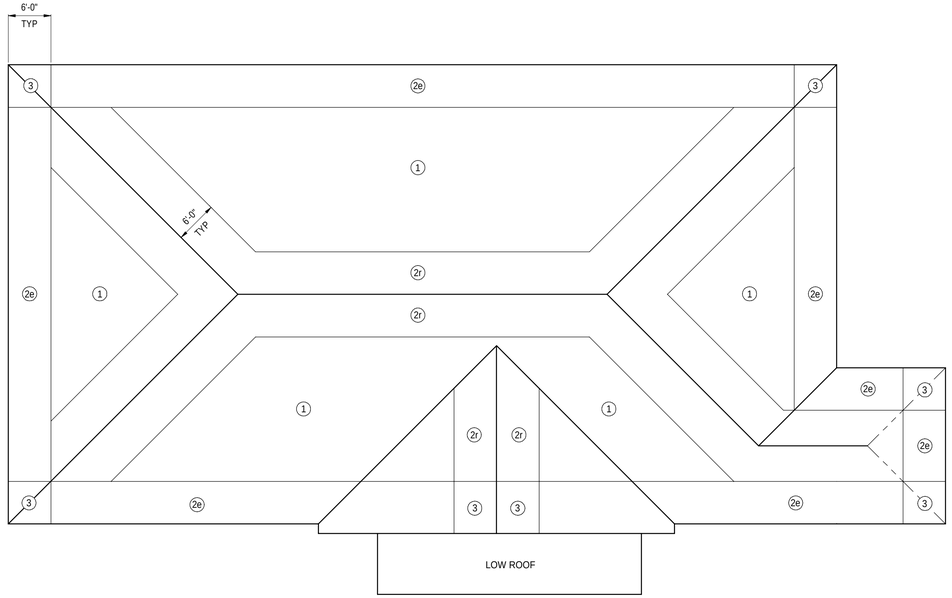
1. WALL SECTION 5 EXTENDS FROM THE BUILDING CORNERS A DISTANCE OF 6'-0". WALL SECTION 4 IS THE REMAINDER OF THE WALL.
2. THE TRUSS MANUFACTURER MAY REDUCE NEGATIVE PRESSURE BY 5 PSF TO PRODUCE NET UPLIFT PRESSURE.
3. COMPONENT AND CLADDING PRESSURES SHOWN ABOVE ARE ALLOWABLE PRESSURES AND MAY NOT BE REDUCED.

LOW ROOF PRESSURES

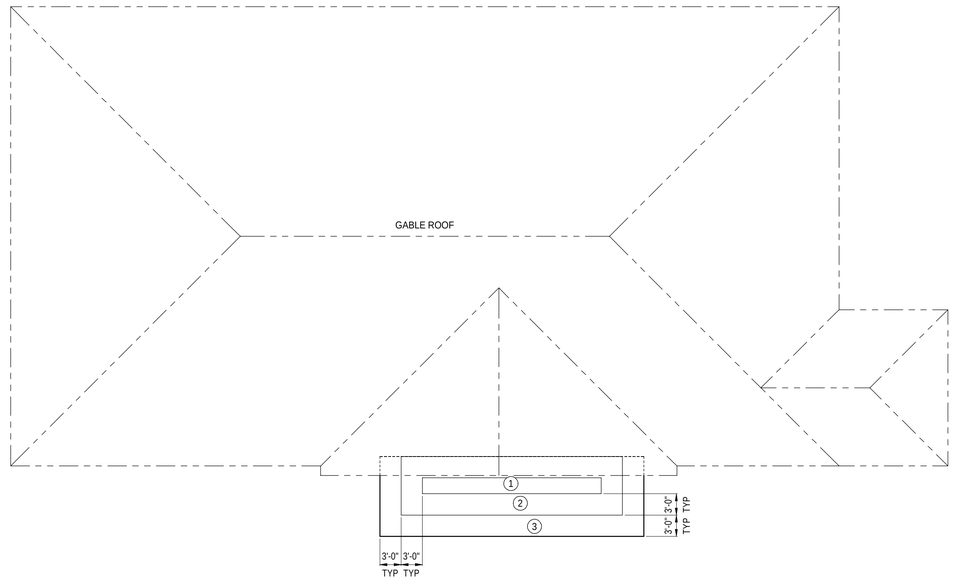
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE
1	9	16.2	-14.8
	18	16.2	-14.8
	36	16.2	-14.8
2	9	24.3	-22.9
	18	24.3	-22.9
	36	16.2	-14.8
3	9	32.3	-44.5
	18	24.3	-22.9
	36	16.2	-14.8

NOTES:

1. COMPONENT AND CLADDING PRESSURES SHOWN ARE ALLOWABLE PRESSURES AND MAY NOT BE REDUCED.



N 1 CH - GABLE ROOF COMPONENT AND CLADDING
3/32" = 1'-0"



N 2 CH - LOW ROOF COMPONENT AND CLADDING
3/32" = 1'-0"

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV	DATE

DATE:	10-3-2023
DESIGNED BY:	MJT
DRAWN BY:	KWD
CHECKED BY:	LJD
PROJECT ENGINEER:	M. TUGWELL
PROJECT MANAGER:	T. JARMAN
Mott MacDonald PROJECT NO:	502100062-005

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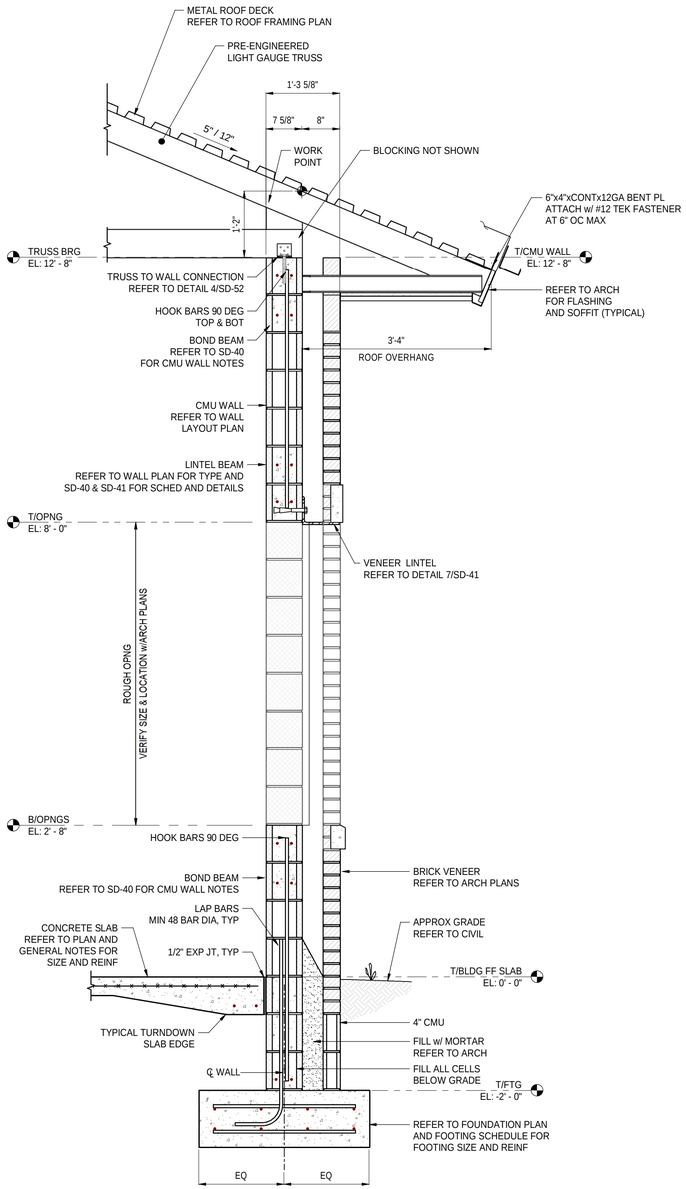
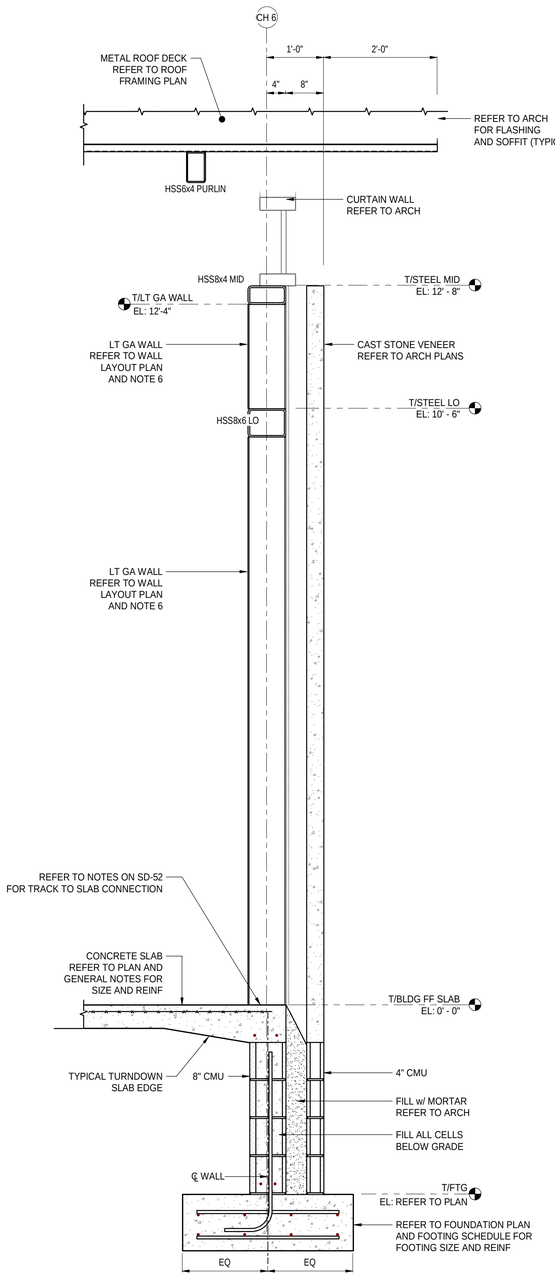
SHEET TITLE:
CITY HALL ROOF COMPONENT & CLADDING

SHEET NUMBER:
S2-20



1 S2-21 CH - TYPICAL CMU WALL SECTION

3/4" = 1'-0"



2 S2-21 CH - TYPICAL LIGHT GAUGE WALL SECTION

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/2"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB COLUMN
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

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DATE:	10-3-2023
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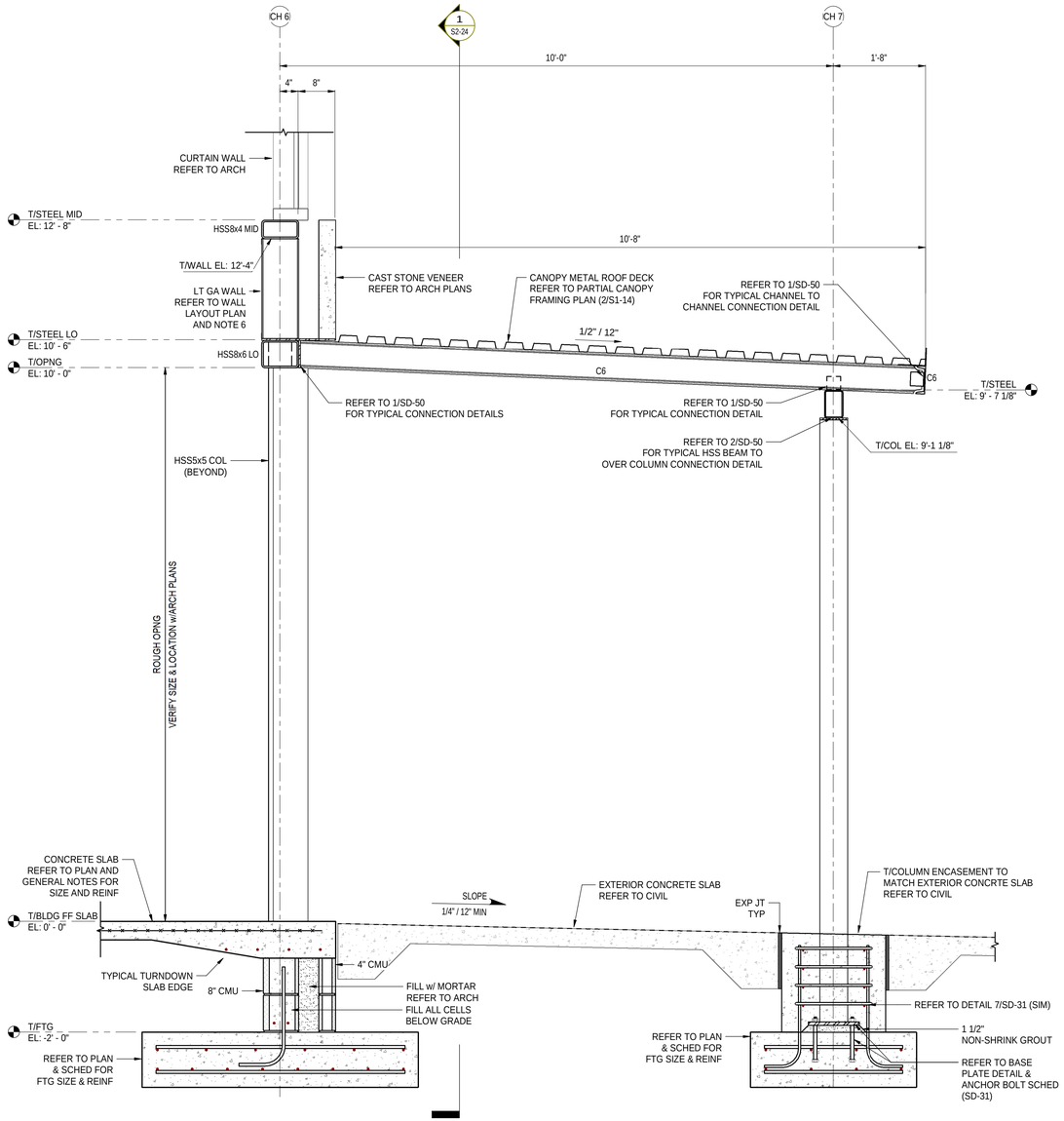
SHEET TITLE:

CITY HALL
TYPICAL WALL
SECTIONS

SHEET NUMBER:

S2-21



1 S2-22 CH - WALL SECTION AT CURTAIN WALL AND CANOPY

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
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4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/2"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB COLUMN
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING

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SPRINGFIELD CITY COMPLEX

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1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
CITY HALL
TYPICAL WALL
SECTIONS

SHEET NUMBER:
S2-22

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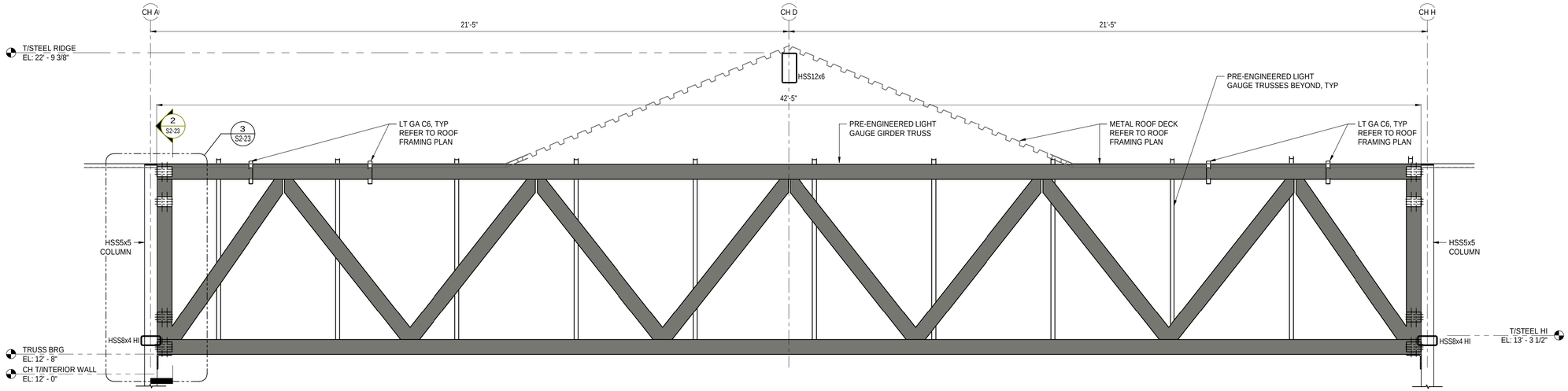
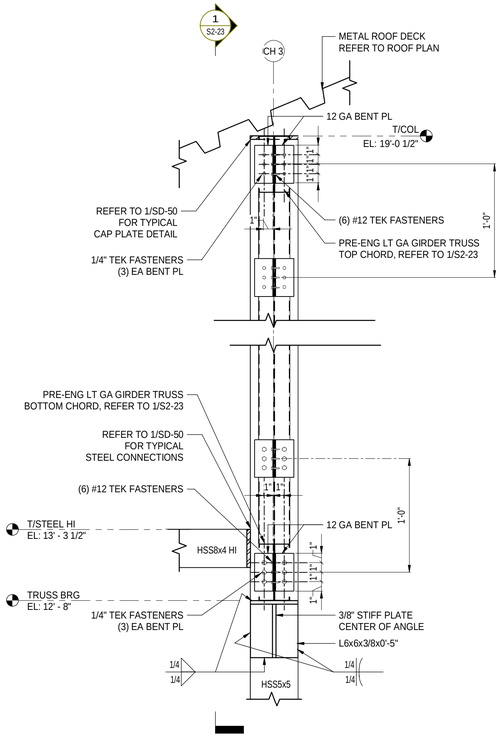


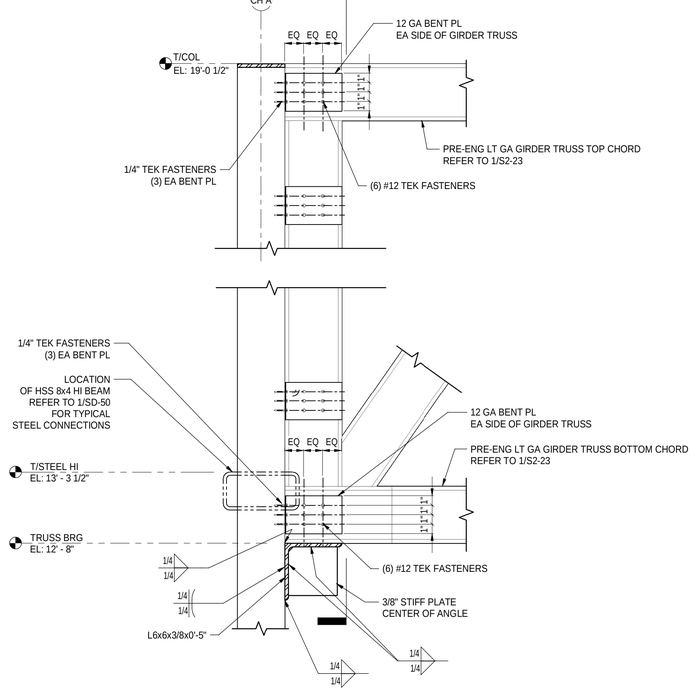
1 S2-23 PRE-ENGINEERED LIGHT GAUGE GIRDER TRUSS ELEVATION

1/2" = 1'-0"



2 S2-23 CH GRIDER TRUSS TO HSS COLUMN DETAIL

1 1/2" = 1'-0"



3 S2-23 CH GRIDER TRUSS TO HSS COLUMN ELEVATION

1 1/2" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
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5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/2"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB COLUMN
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV	DATE

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

SHEET TITLE:
CITY HALL
LIGHT GAUGE
GIRDER TRUSS
CONNECTION
DETAILS

SHEET NUMBER:
S2-23

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:19 AM

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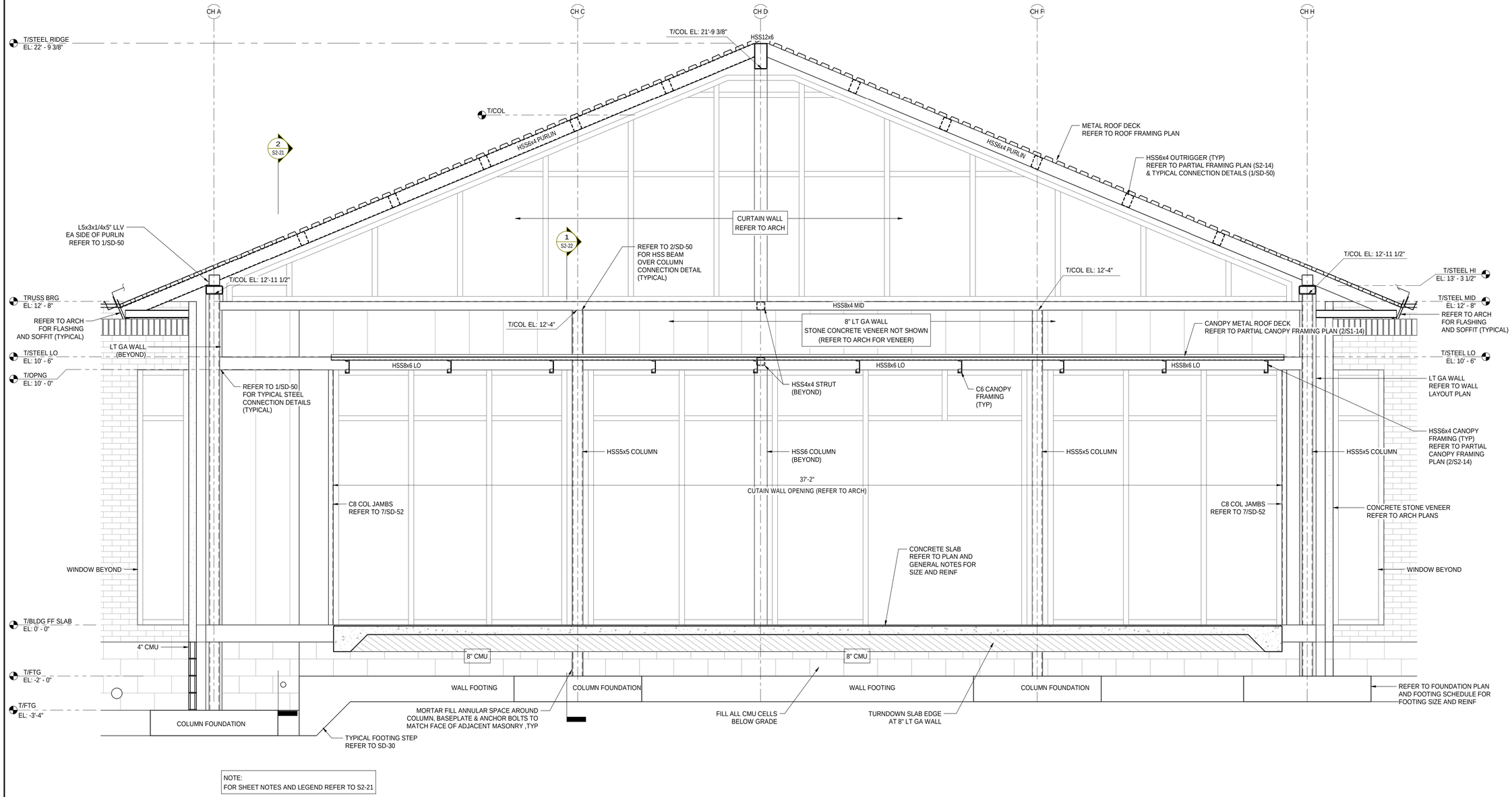

NOTE:
FOR SHEET NOTES AND LEGEND REFER TO S2-21

1 CH - FRONT ENTRANCE SECTION

1/2" = 1'-0"

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

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PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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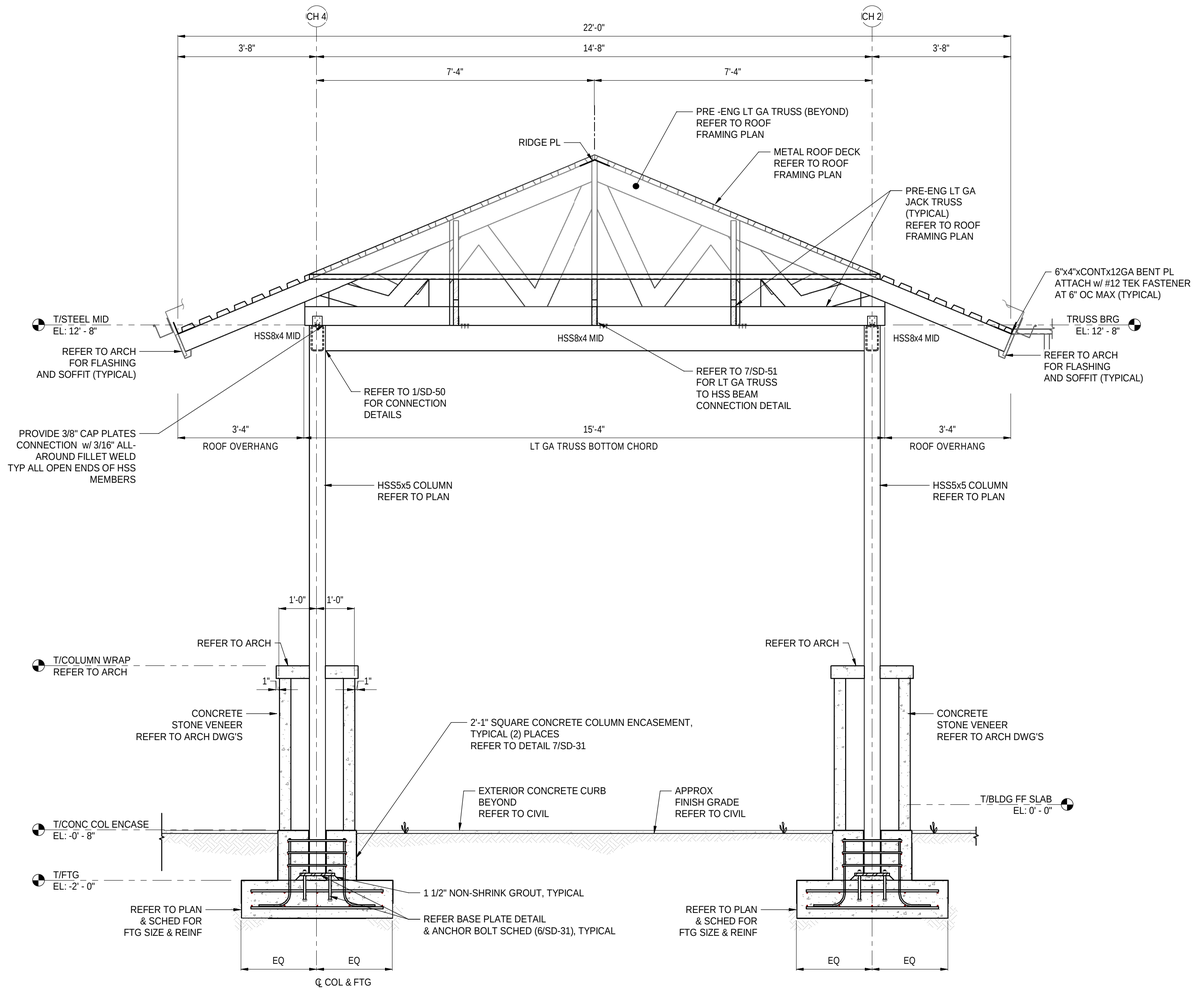
SHEET TITLE:
CITY HALL BUILDING SECTION AT ENTRANCE

SHEET NUMBER:
S2-24

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:21 AM

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION



1 S2-25 CH - DRIVE THRU AT COLUMNS SECTION

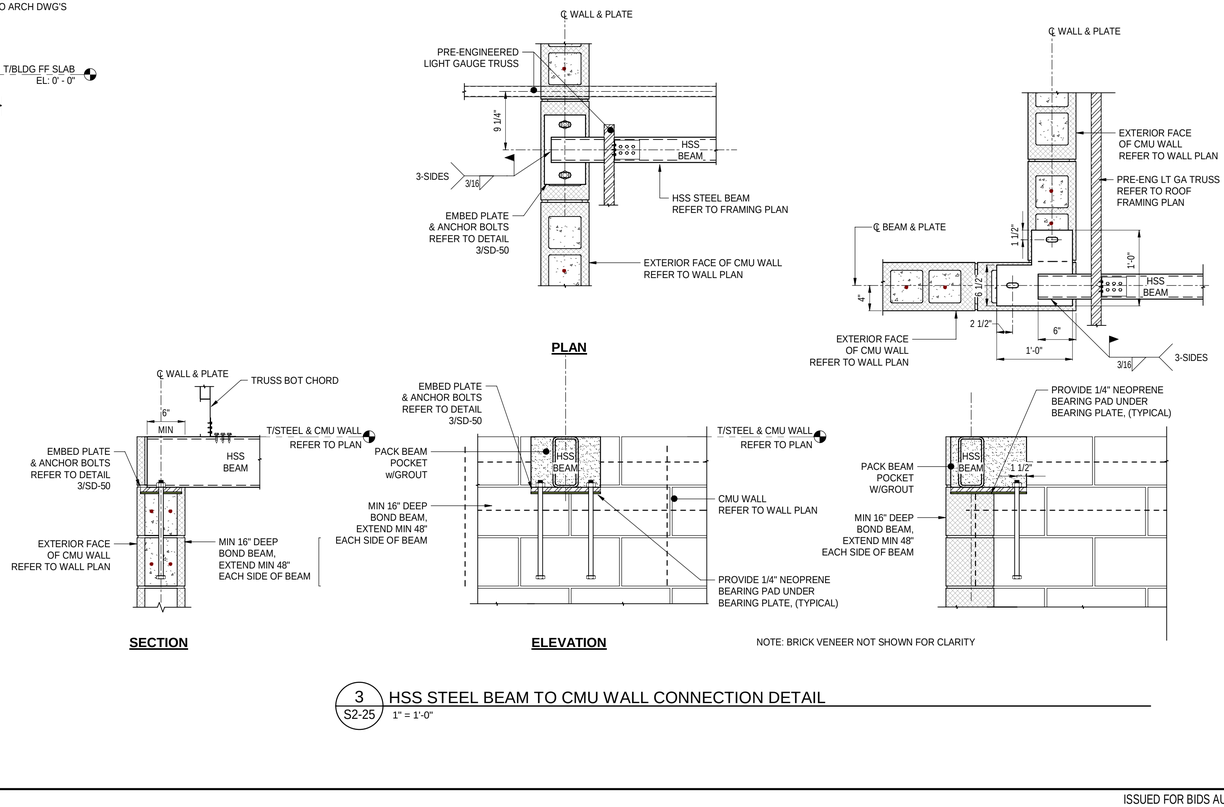
1/2" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS#x# HI	INDICATES T/STEEL EL: 13'-3 1/2"
HSS#x# MID	INDICATES T/STEEL EL: 12'-8"
HSS#x# LO	INDICATES T/STEEL EL: 10'-6"
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS6	INDICATES HSS6x3/8 STEEL COLUMN
C8	INDICATES C8x11.5 STEEL CHANNEL JAMB COLUMN
HSS12x6	INDICATES HSS12x6x1/4 STEEL FRAMING
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS8x4	INDICATES HSS8x4x3/8 STEEL FRAMING
HSS6x4	INDICATES HSS6x4x1/4 STEEL FRAMING
HSS4x4	INDICATES HSS4x4x3/8 STEEL FRAMING
C10	INDICATES C10x20 STEEL CHANNEL FRAMING
C6	INDICATES C6x8.2 STEEL CHANNEL FRAMING



NOTE: BRICK VENEER NOT SHOWN FOR CLARITY

3 S2-25 HSS STEEL BEAM TO CMU WALL CONNECTION DETAIL

1" = 1'-0"

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SPRINGFIELD CITY COMPLEX

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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV	DATE

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SHEET TITLE:

CITY HALL DRIVE THRU BUILDING SECTIONS

SHEET NUMBER:

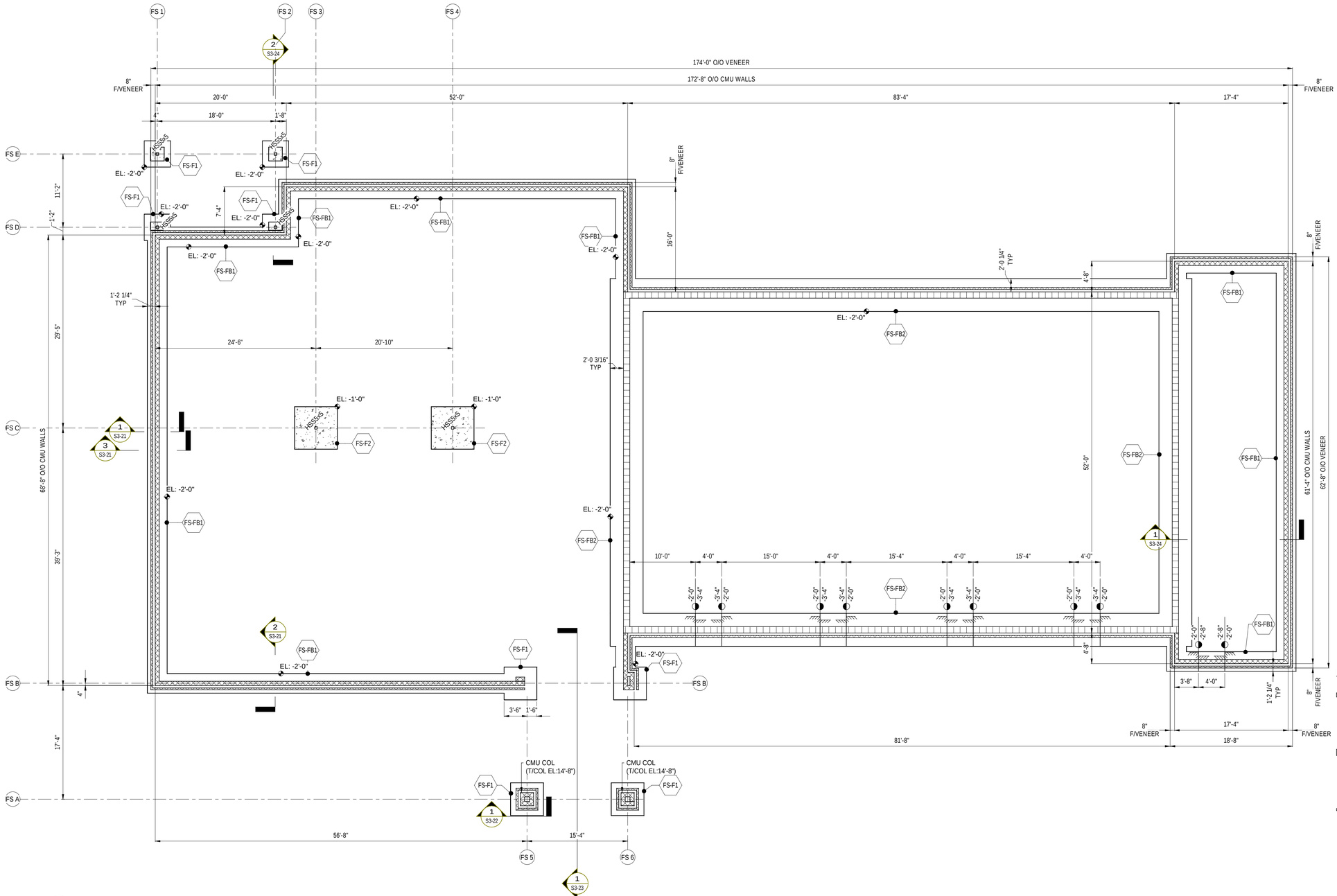
S2-25

FOOTING SCHEDULE

MARK	SIZE SHORT x LONG x THICKNESS	TOP		BOTTOM		REMARKS
		SHORT	LONG	SHORT	LONG	
FS-F1	5'-0" x 5'-0" x 1'-0"	(6)#5	(6)#5	(6)#5	(6)#5	
FS-F2	6'-6" x 6'-6" x 1'-0"	(8)#5	(8)#5	(8)#5	(8)#5	
FS-FB1	3'-0" x CONT x 1'-0"	#5@8" OC	(4)#5 CONT	#5@8" OC	(4)#5 CONT	
FS-FB2	5'-0" x CONT x 1'-0"	#5@8" OC	(6)#5 CONT	#5@8" OC	(6)#5 CONT	

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR FIRE STATION BUILDING STRUCTURAL PLANS.
2. TOP OF FOUNDATION ELEVATION= -2'-0", UNLESS OTHERWISE NOTED.
3. REFER TO SD-30 AND SD-31 FOR FOUNDATION DETAILS.
4. REFER TO SD-31 FOR BASE PLATE AND ANCHOR BOLT DETAILS.
5. CENTER ALL COLUMNS ON FOUNDATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SD-40 AND SD-41 FOR CMU WALL TYPICAL DETAILS.
7. START AND END REINFORCING WITH CLEAR COVER NOT TO EXCEED MINIMUM ALLOWED COVER ON ALL SIDES OF FOOTING. REMAINDER OF REINFORCING SHALL BE PLACED WITHOUT EXCEEDING SPACING SHOWN IN SCHEDULE.
8. LONG REINFORCING REFERS TO THE LONGER LENGTH BARS PLACED ACROSS THE SHORT SIDE. SHORT REINFORCING REFERS TO THE SHORTER LENGTH BARS PLACED ACROSS THE LONG SIDE.
9. FOOTING SIZE SHOWN IS A MAXIMUM OUTSIDE DIMENSIONS AND THICKNESS. REFER TO PLAN FOR ACTUAL SHAPE AND ORIENTATION.
10. EXTEND LONGITUDINAL FOOTING REINFORCING INTO ADJACENT FOOTING WITH MIN. CLASS 'B' LAP SPLICE.
11. REFER TO ARCH., CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR COORDINATION.



LEGEND

- INDICATES 8" CMU WALL — REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES 12" CMU WALL — REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES BRICK VENEER — REFER TO ARCHITECTURE
- F# — INDICATES FOUNDATION TYPE — REFER TO FOOTING SCHEDULE AND SHEETS SD-30 & SD-31
- EL: X'-XX" — INDICATES TOP OF FOOTING ELEVATION
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- UPPER EL / STEP DN EL — INDICATES FOOTING STEP — REFER TO SD-30

N

1 FS - FOUNDATION PLAN
1/8" = 1'-0"

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION

MOTT MACDONALD FLORIDA LLC
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Architects AA - C000035
Engineers EB - 0000795
Surveyors LB - 0000183

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

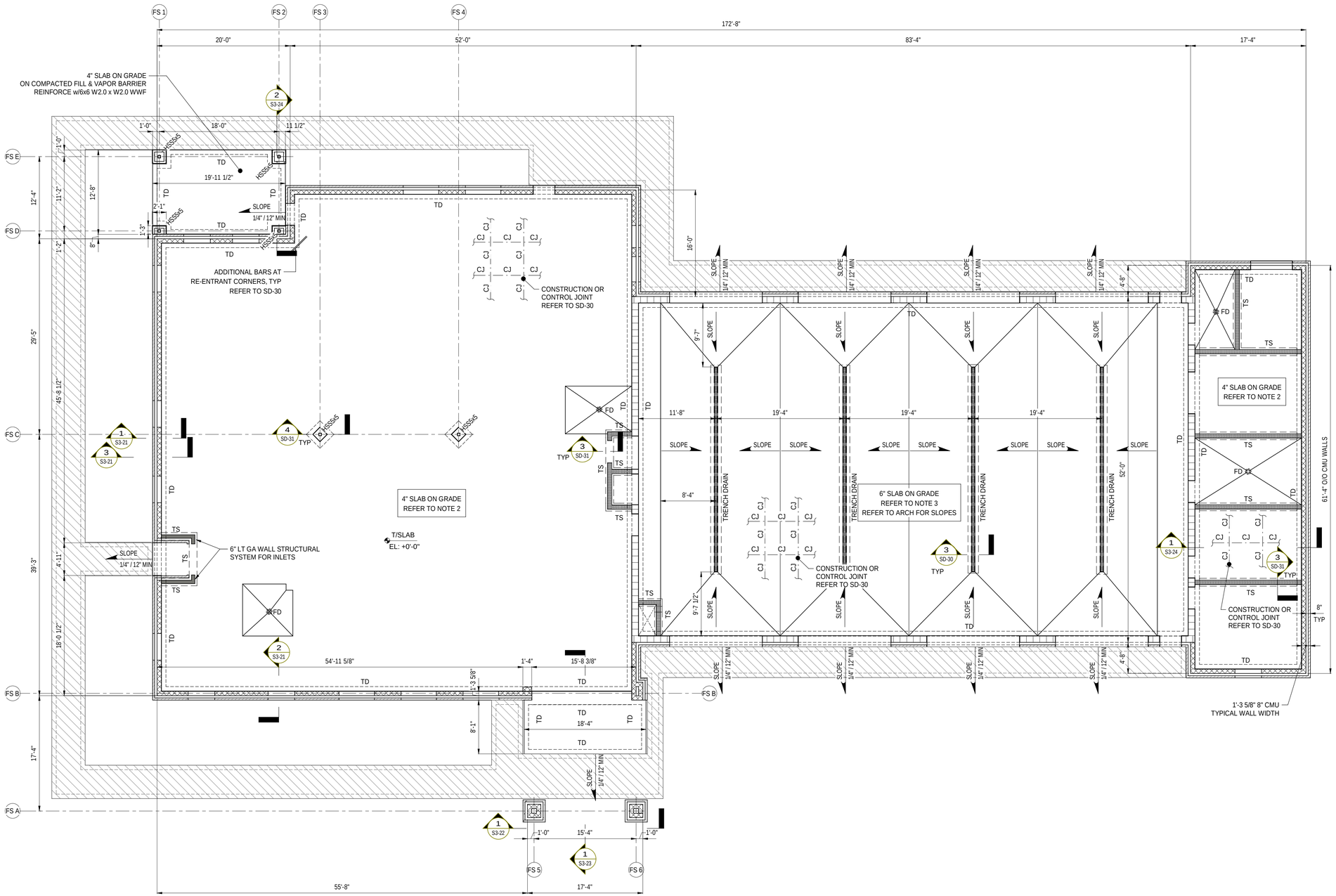
DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Matt MacDonald
PROJECT NO: 502100062-005

This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C., Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

SHEET TITLE:
FIRE STATION FOUNDATION PLAN

SHEET NUMBER:
S3-10

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:22 AM



SLAB ON GRADE PLAN NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. SLAB ON GRADE SHALL BE MINIMUM 4" THICK CONCRETE PLACED ON 20 MIL MINIMUM VAPOR BARRIER ON COMPACTED FILL (REFER TO SPEC 072650). REINFORCE SLAB ON GRADE WITH 6x6 x W2.0 x W2.0 WWF IN FLAT SHEETS. DOUBLE THE WWF FOR 3'-0" MINIMUM AROUND SLAB EDGES. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AND REQUIREMENTS. USE CHAIRS TO POSITION REINFORCING 1 1/2" BELOW TOP OF SLAB AND TO MAINTAIN THAT DEPTH DURING CONCRETE PLACEMENT
3. SLAB ON GRADE SHALL BE MINIMUM 6" THICK CONCRETE PLACED ON 20 MIL MINIMUM VAPOR BARRIER ON COMPACTED FILL (REFER TO SPEC 072650). REINFORCE SLAB ON GRADE WITH #3 BARS AT 10" OC MAX. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AND REQUIREMENTS. USE CHAIRS TO POSITION REINFORCING 1 1/2" BELOW TOP OF SLAB AND TO MAINTAIN THAT DEPTH DURING CONCRETE PLACEMENT
4. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
5. COORDINATE ALL SLAB PENETRATION SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
6. CONTRACTOR SHALL SUBMIT CONTROL / CONSTRUCTION JOINT LOCATION PLAN TO EOR FOR REVIEW PRIOR TO PLACING.
7. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
8. REFER TO SD-40 AND SD-41 FOR CONCRETE MASONRY DETAILS.
9. "+-" INDICATES THICKNESS OF CONC ABOVE T/SLAB.
10. COORDINATE RECESSED SLAB LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
11. SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLAN.
12. REFER TO S3-12 FOR WALL LAYOUT PLAN.

LEGEND

- INDICATES 8" CMU WALL REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES 12" CMU WALL REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES INTERIOR 8" CMU PARTITION WALL. REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES LIGHT GAUGE STEEL WALL REFER TO SD-52, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS AND WALL SIZE
- INDICATES BRICK VENEER REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES CONCRETE STONE VENEER REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES COLUMN AND SLAB ISOLATION & CONTROL JOINTS, REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TD — INDICATES TURNDOWN SLAB REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TS — INDICATES THICKENED SLAB REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- CJ — INDICATES SLAB CONTROL JOINT REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- EL: X'-XX" — INDICATES TOP OF SLAB REFERENCE ELEVATION. REFER TO GENERAL NOTES
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- FD — INDICATES FLOOR DRAIN - SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLANS
- INDICATES APPROXIMATE EXTERIOR SLABS AND SIDEWALKS. REFER TO CIVIL PLANS FOR ACTUAL LAYOUT AND ELEVATIONS

1 FS - SLAB ON GRADE PLAN
1/8" = 1'-0"

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Engineers EB - 0000295
Surveyors LB - 0000183

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
FIRE STATION
SLAB ON GRADE PLAN

SHEET NUMBER:
S3-11

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:24 AM

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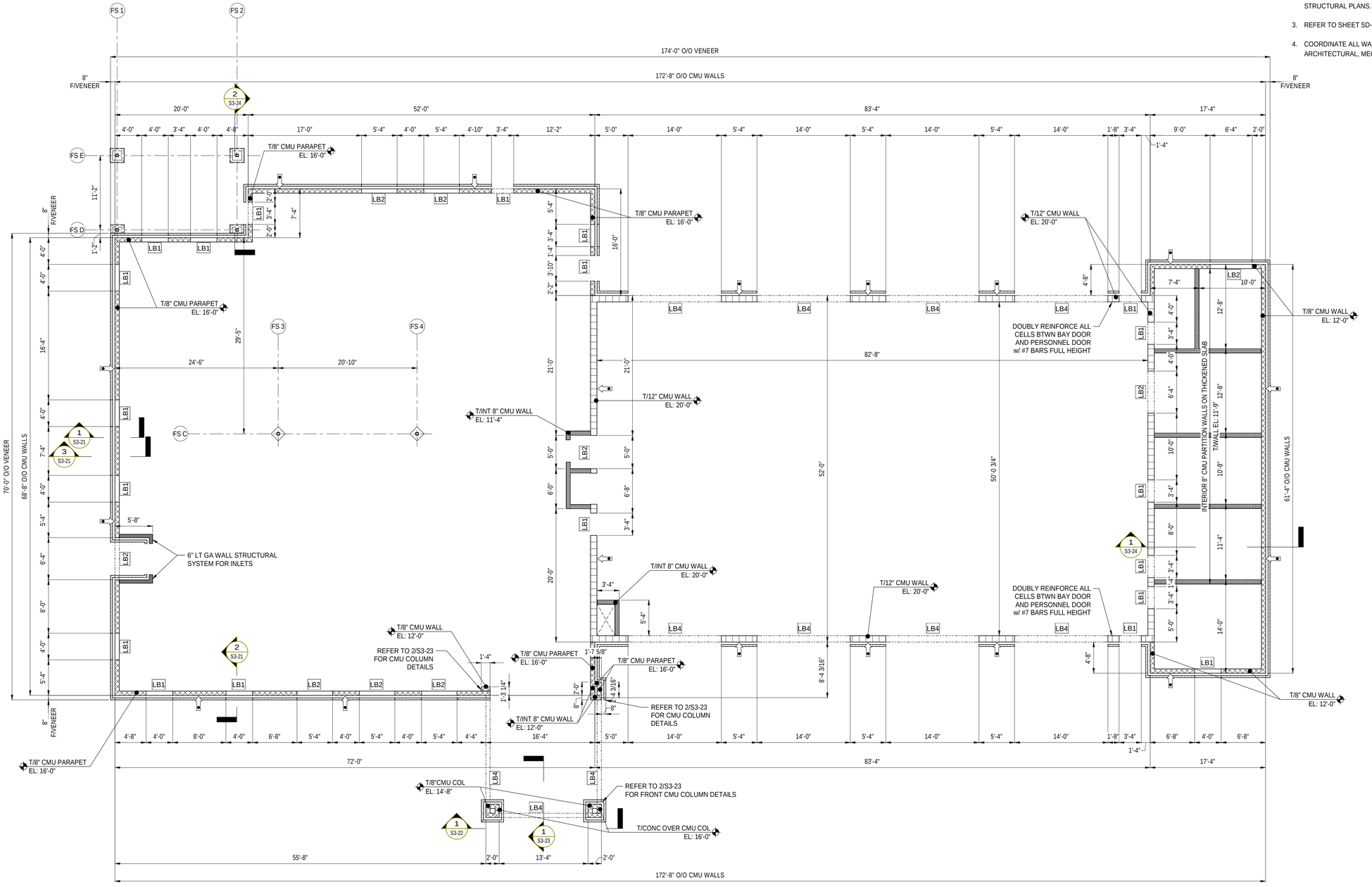
WALL LAYOUT PLAN NOTES:

1. REFER TO GENERAL NOTES SHEET AND TYPICAL CONCRETE MASONRY DETAILS (SHEET SD-40 & SD-41) FOR CMU WALL REINFORCING AND DETAILS.
2. TOP OF CMU WALL ELEVATION = REFER TO PLAN.
   REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SHEET SD-52 FOR LIGHT GAUGE WALL FRAMING NOTES AND DETAILS.
4. COORDINATE ALL WALL OPENING SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.



LEGEND

- INDICATES 8" CMU WALL REINFORCE WITH #5 @ 32" OC MAX REFER TO SHEETS SD-40 & SD-41, AND WALL SECTIONS FOR ADDITIONAL REQUIREMENTS
- INDICATES 12" CMU WALL REINFORCE WITH (2) #5 @ 8" - SINGLY REINF ABOVE 30" REFER TO PLAN FOR ADDITIONAL REINFORING AND SHEETS SD-40 & SD-41, AND WALL SECTIONS FOR ADDITIONAL REQUIREMENTS
- INDICATES INTERIOR 8" CMU PARTITION WALL. REINFORCE WITH #5 @ 48" OC MAX REFER TO SHEETS SD-40 & SD-41, AND WALL SECTIONS FOR ADDITIONAL REQUIREMENTS. VERIFY LOCATION OF WALLS AND OPENINGS w/ARCHITECTURAL DRAWINGS
- INDICATES LIGHT GAUGE STEEL WALL. REFER TO SHEETS SD-52, AND WALL SECTIONS FOR ADDITIONAL REQUIREMENTS AND WALL SIZE
- INDICATES BRICK VENEER REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES BRICK VENEER REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- HSS6 — INDICATES HSS6x3/8 STEEL COLUMN
- INDICATES MASONRY CONTROL JOINT FULL HEIGHT OF WALL (SPACE @ 24'-0" OC MAX) REFER TO SHEETS SD-40 & SD-41
- LB# — INDICATES LINTEL BEAM TYPE REFER TO LINTEL BEAM SCHEDULE AND TYPICAL CONCRETE MASONRY DETAILS (SHEETS SD-40 & SD-41)

1 FS - WALL LAYOUT PLAN
1/8" = 1'-0"

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV	DESCRIPTION

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
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PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
FIRE STATION WALL LAYOUT PLAN

SHEET NUMBER:
S3-12

SPRINGFIELD CITY COMPLEX
502100062-005
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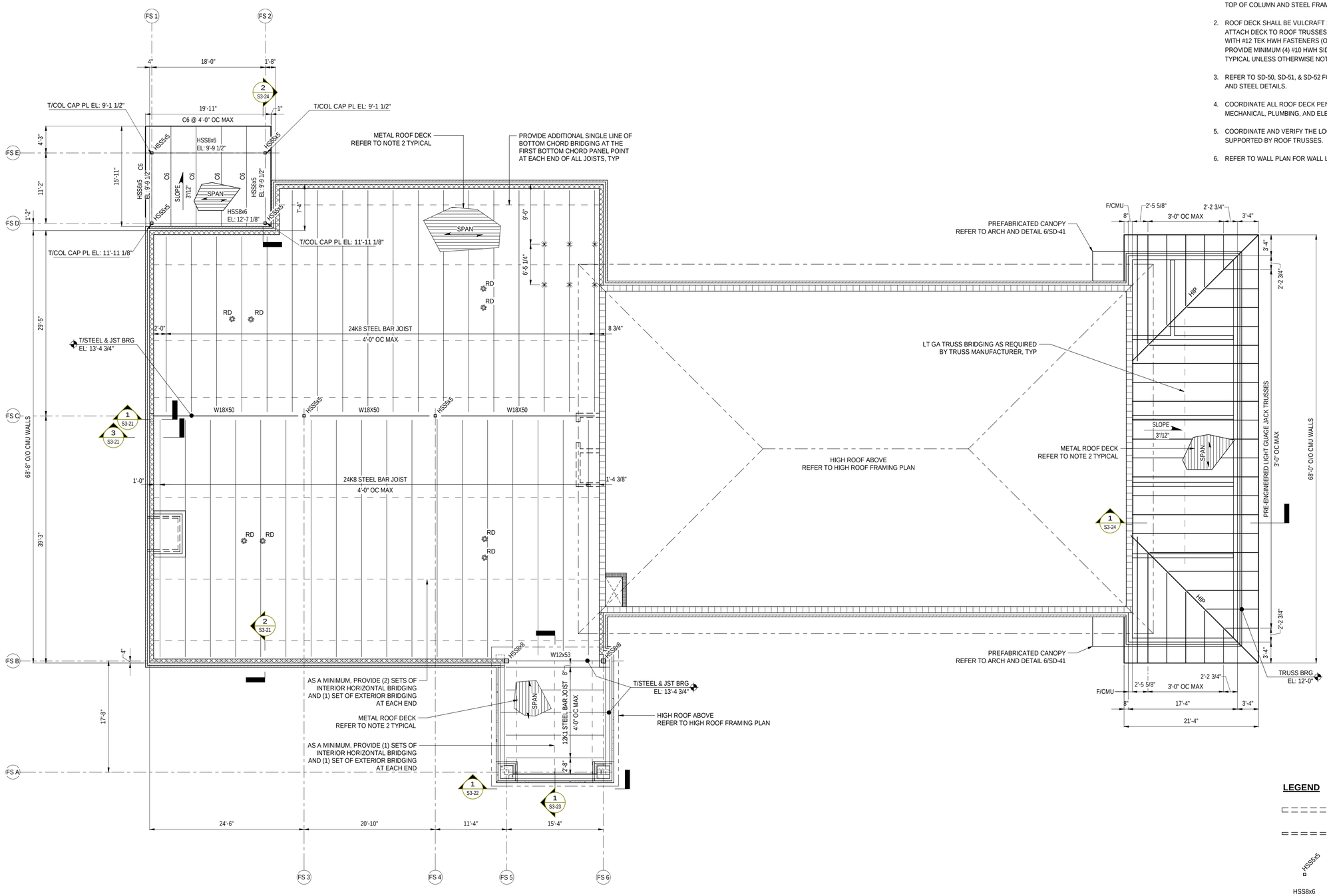
ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION

ROOF FRAMING PLAN NOTES:

1. REFER TO PLANS AND SECTIONS FOR TRUSS BEARING AND TOP OF COLUMN AND STEEL FRAMING ELEVATIONS.
2. ROOF DECK SHALL BE VULCRAFT 1.5B 18ga OR EQUIVALENT. ATTACH DECK TO ROOF TRUSSES AND PERIMETER EDGE ANGLES WITH #12 TEK HWH FASTENERS (OR EQUIVALENT) USING 36/7 PATTERN. PROVIDE MINIMUM (4) #10 HWH SIDELAP FASTENERS BETWEEN SUPPORTS. TYPICAL UNLESS OTHERWISE NOTED.
3. REFER TO SD-50, SD-51, & SD-52 FOR TYPICAL TRUSS CONNECTION, TRUSS BLOCKING, AND STEEL DETAILS.
4. COORDINATE ALL ROOF DECK PENETRATION SIZE AND LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. COORDINATE AND VERIFY THE LOCATIONS OF ALL MECHANICAL EQUIPMENT TO BE SUPPORTED BY ROOF TRUSSES.
6. REFER TO WALL PLAN FOR WALL LAYOUT AND TOP OF WALL ELEVATIONS.



LEGEND

	INDICATES CMU WALL BELOW
	INDICATES BRICK VENEER REFER TO ARCHITECTURE
HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS6x5	INDICATES HSS6x5x1/4 STEEL FRAMING
C6	INDICATES C6x8.2 STEEL FRAMING
✳	EQUIPMENT POINT LOAD (125 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL
RD	INDICATES ROOF DRAIN - SLOPE ROOF TO DRAIN AS INDICATED ON ARCHITECTURAL PLANS

1 FS - LOW ROOF FRAMING PLAN

1/8" = 1'-0"

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO.: 502100082-005

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SHEET TITLE:
FIRE STATION
LOW ROOF
FRAMING PLAN

SHEET NUMBER:
S3-13

SPRINGFIELD CITY COMPLEX
502100082-005
8/6/2024 7:56:25 AM

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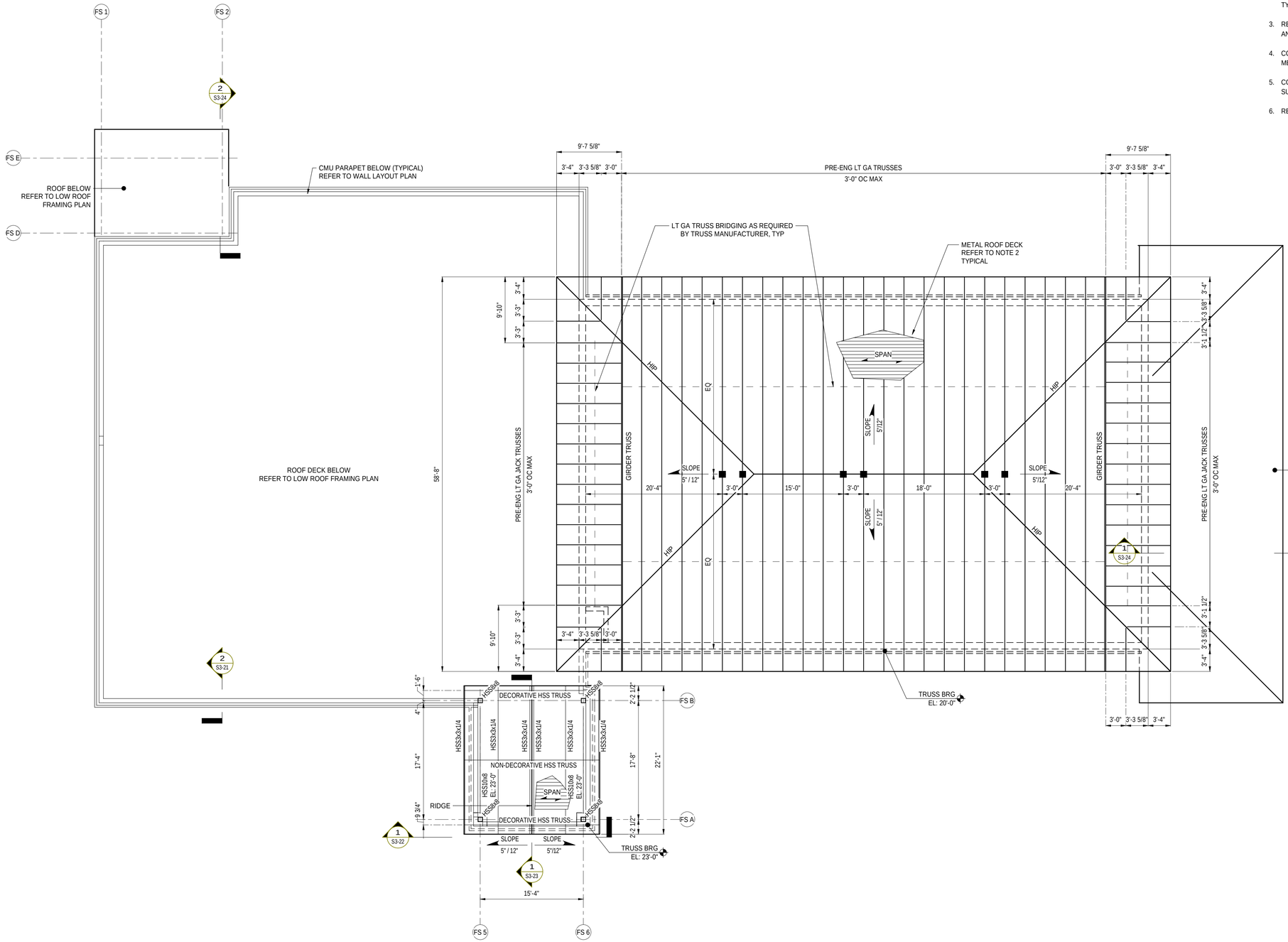
ROOF FRAMING PLAN NOTES:

1. REFER TO PLANS AND SECTIONS FOR TRUSS BEARING AND TOP OF COLUMN AND STEEL FRAMING ELEVATIONS.
2. ROOF DECK SHALL BE VULCRAFT 1.5B 18ga OR EQUIVALENT. ATTACH DECK TO ROOF TRUSSES AND PERIMETER EDGE ANGLES WITH #12 TEK HWH FASTENERS (OR EQUIVALENT) USING 36/7 PATTERN. PROVIDE MINIMUM (4) #10 HWH SIDELAP FASTENERS BETWEEN SUPPORTS. TYPICAL UNLESS OTHERWISE NOTED.
3. REFER TO SD-50, SD-51, & SD-52 FOR TYPICAL TRUSS CONNECTION, TRUSS BLOCKING, AND STEEL DETAILS.
4. COORDINATE ALL ROOF DECK PENETRATION SIZE AND LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. COORDINATE AND VERIFY THE LOCATIONS OF ALL MECHANICAL EQUIPMENT TO BE SUPPORTED BY ROOF TRUSSES.
6. REFER TO WALL PLAN FOR WALL LAYOUT AND TOP OF WALL ELEVATIONS.



LEGEND

- INDICATES CMU WALL BELOW
- INDICATES BRICK VENEER REFER TO ARCHITECTURE
- HSS8x8 — INDICATES HSS8x8x3/8 STEEL COLUMN
- HSS10x8 — INDICATES HSS10x8x3/8 STEEL FRAMING
- EQUIPMENT POINT LOAD (125 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL
- EQUIPMENT POINT LOAD (175 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL

1 FS - HIGH ROOF FRAMING PLAN
1/8" = 1'-0"

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Engineers EB - 0000035
Surveyors LB - 0000183

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100962-005

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SHEET TITLE:
FIRE STATION
HIGH ROOF
FRAMING PLAN

SHEET NUMBER:
S3-14

SPRINGFIELD CITY COMPLEX
502100962-005
8/6/2024 7:56:26 AM

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LOW ROOF PRESSURES				
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)		
		POSITIVE	NEGATIVE	ROOF OVERHANG
1	10	10.0	-29.8	N/A
	100	10.0	-23.3	N/A
	200	10.0	-21.3	N/A
	500	10.0	-18.7	N/A
1'	10	10.0	-17.2	N/A
	100	10.0	-17.2	N/A
	500	10.0	-11.6	N/A
	1000	10.0	-10.0	N/A
2	10	10.0	-39.4	N/A
	100	10.0	-31.0	N/A
	200	10.0	-28.4	N/A
	500	10.0	-25.1	N/A
3	10	10.0	-53.6	N/A
	100	10.0	-36.8	N/A
	200	10.0	-31.7	N/A
	500	10.0	-25.1	N/A

LOW ROOF WALL PRESSURES			
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE
4	10	17.2	-18.5
	50	15.4	-16.8
	200	13.9	-15.3
	500	12.8	-14.3
5	10	17.2	-22.9
	50	15.4	-19.3
	200	13.9	-16.3
	500	12.8	-14.3

LOW ROOF PARAPET PRESSURES			
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)	
		WINDWARD	LEEWARD
4P	10	57.5	-36.5
	50	49.9	-32.9
	200	43.2	-29.8
	500	38.8	-27.7
5P	10	72.3	-40.9
	50	58.5	-35.5
	200	46.6	-30.8
	500	38.8	-27.7

NOTES:

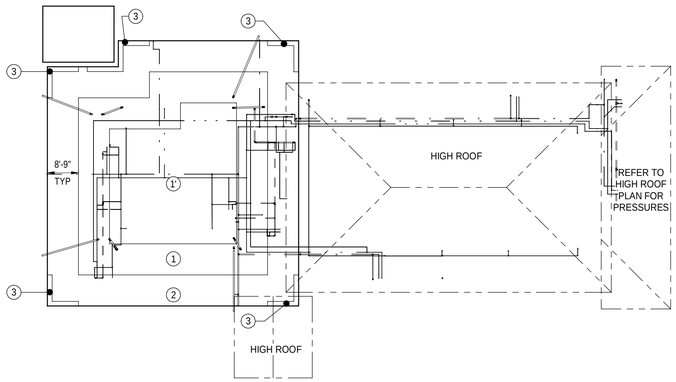
1. WALL SECTION 5 EXTENDS FROM THE BUILDING CORNERS A DISTANCE OF 8'-9". WALL SECTION 4 IS THE REMAINDER OF THE WALL.
2. THE TRUSS MANUFACTURER MAY REDUCE NEGATIVE PRESSURE BY 5 PSF TO PRODUCE NET UPLIFT PRESSURE.
3. COMPONENT AND CLADDING PRESSURES SHOWN ARE ALLOWABLE PRESSURES AND MAY NOT BE REDUCED.

HI ROOF PRESSURES				
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)		
		POSITIVE	NEGATIVE	ROOF OVERHANG
1	10	13.4	-29.6	N/A
	20	12.1	-26.2	N/A
	50	10.3	-21.7	N/A
	100	10.0	-18.4	N/A
2e	10	13.4	-40.8	-49.1
	50	10.3	-30.7	-44.6
	100	10.0	-26.4	-42.7
	200	10.0	-22.1	-40.8
2r	10	13.4	-40.8	N/A
	50	10.3	-30.7	N/A
	100	10.0	-26.4	N/A
	200	10.0	-22.1	N/A
3	10	13.4	-40.8	-58.2
	50	10.3	-30.7	-43.8
	100	10.0	-26.4	-37.6
	200	10.0	-22.1	-31.4

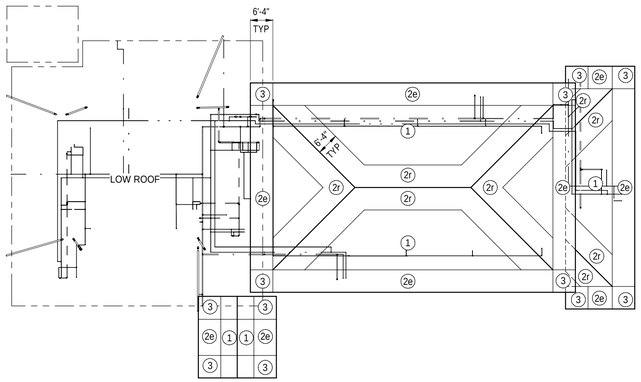
HI ROOF WALL PRESSURES			
ZONE	EFFECTIVE AREA (FT²)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE
4	10	22.1	-23.9
	20	19.7	-21.7
	50	17.8	-19.6
	100	16.4	-18.4
5	10	22.1	-29.6
	20	19.7	-25.0
	50	17.8	-20.9
	100	16.4	-18.4

NOTES:

1. WALL SECTION 5 EXTENDS FROM THE BUILDING CORNERS A DISTANCE OF 6'-4". WALL SECTION 4 IS THE REMAINDER OF THE WALL.
2. THE TRUSS MANUFACTURER MAY REDUCE NEGATIVE PRESSURE BY 5 PSF TO PRODUCE NET UPLIFT PRESSURE.
3. COMPONENT AND CLADDING PRESSURES SHOWN ARE ALLOWABLE PRESSURES AND MAY NOT BE REDUCED.



FS - COMPONENT & CLADDING LOW ROOF PLAN



FS - COMPONENT & CLADDING HIGH ROOF PLAN

1 FS - ROOF COMPONENT AND CLADDING

1/4" = 1'-0"

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Engineers EB - 0000195
Surveyors LB - 0000183

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

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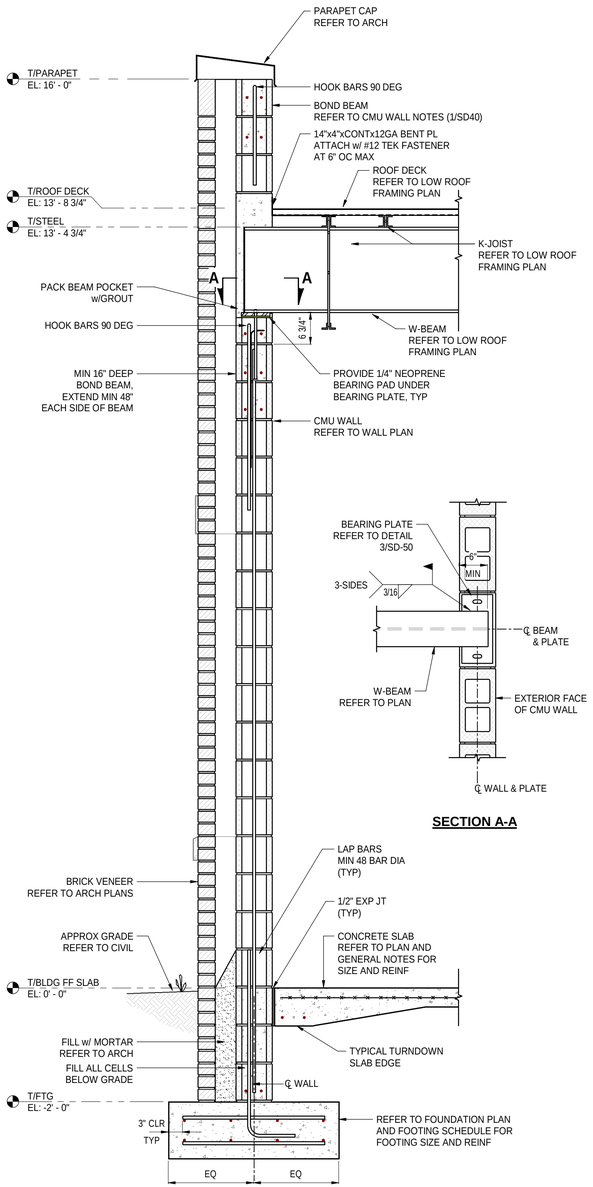
SHEET TITLE:
FIRE STATION ROOF COMPONENT & CLADDING

SHEET NUMBER:
S3-20

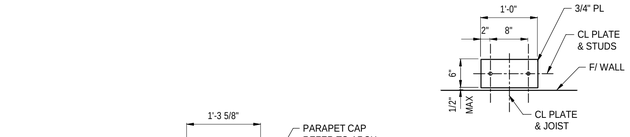
8/6/2024 7:56:28 AM 502100962-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION

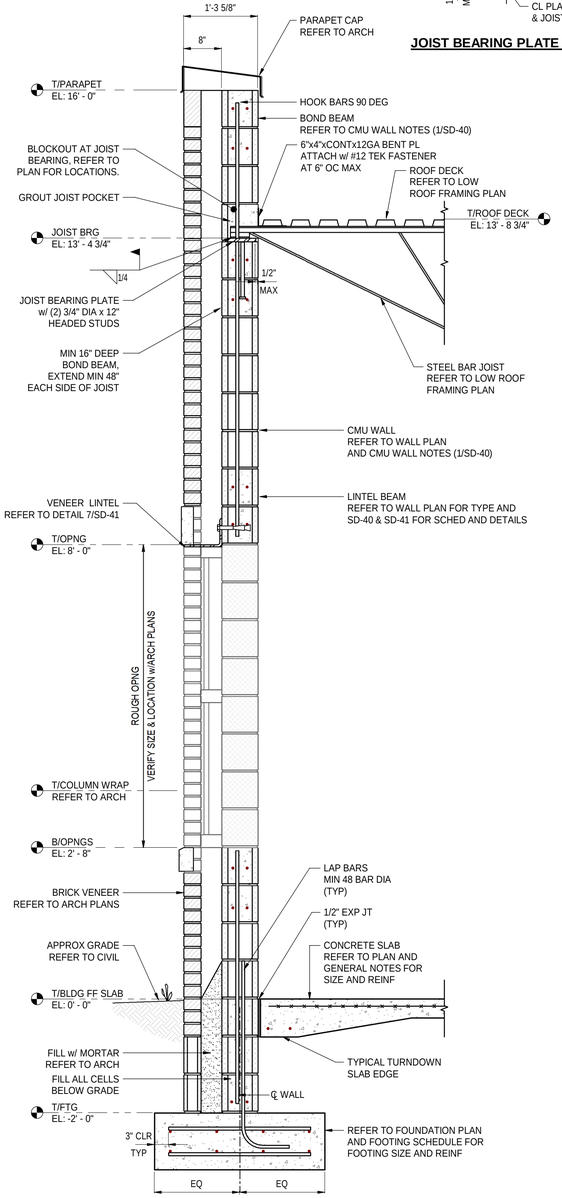


SECTION A-A

1 S3-21 FS - SECTION AT LOW ROOF W-BEAM
3/4" = 1'-0"



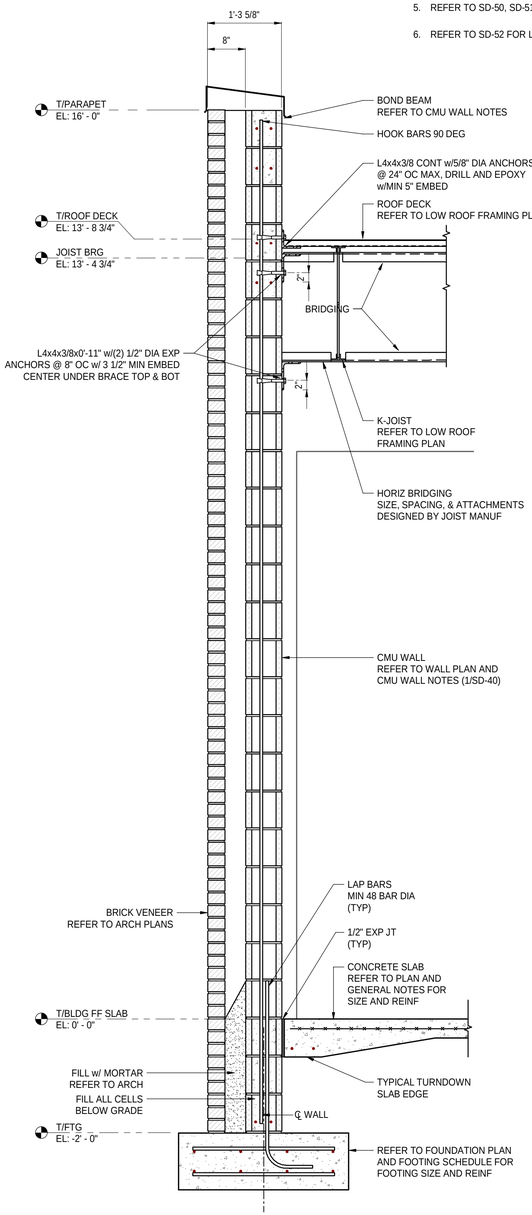
JOIST BEARING PLATE DETAIL



2 S3-21 FS - SECTION AT LOW ROOF JOIST TO CMU WALL
3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.



3 S3-21 FS - SECTION AT LOW ROOF AT CMU WALL
3/4" = 1'-0"

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Surveyors LB - 0000783

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DATE:	10-3-2023
DESIGNED BY:	MJT
DRAWN BY:	KWD
CHECKED BY:	LJD
PROJECT ENGINEER:	M. TUGWELL
PROJECT MANAGER:	T. JARMAN
Mott MacDonald PROJECT NO:	502100962-005

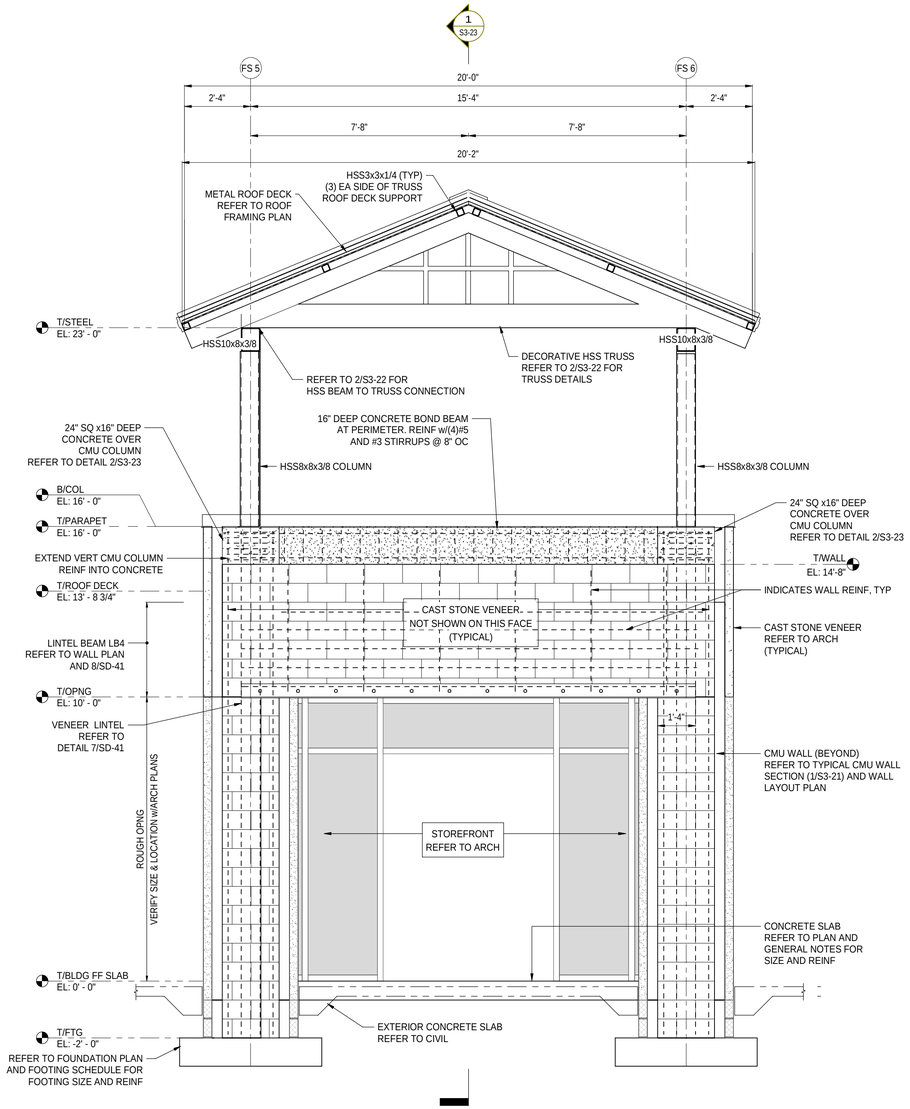
This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C., Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

SHEET TITLE:
FIRE STATION
TYPICAL WALL
SECTIONS

SHEET NUMBER:
S3-21

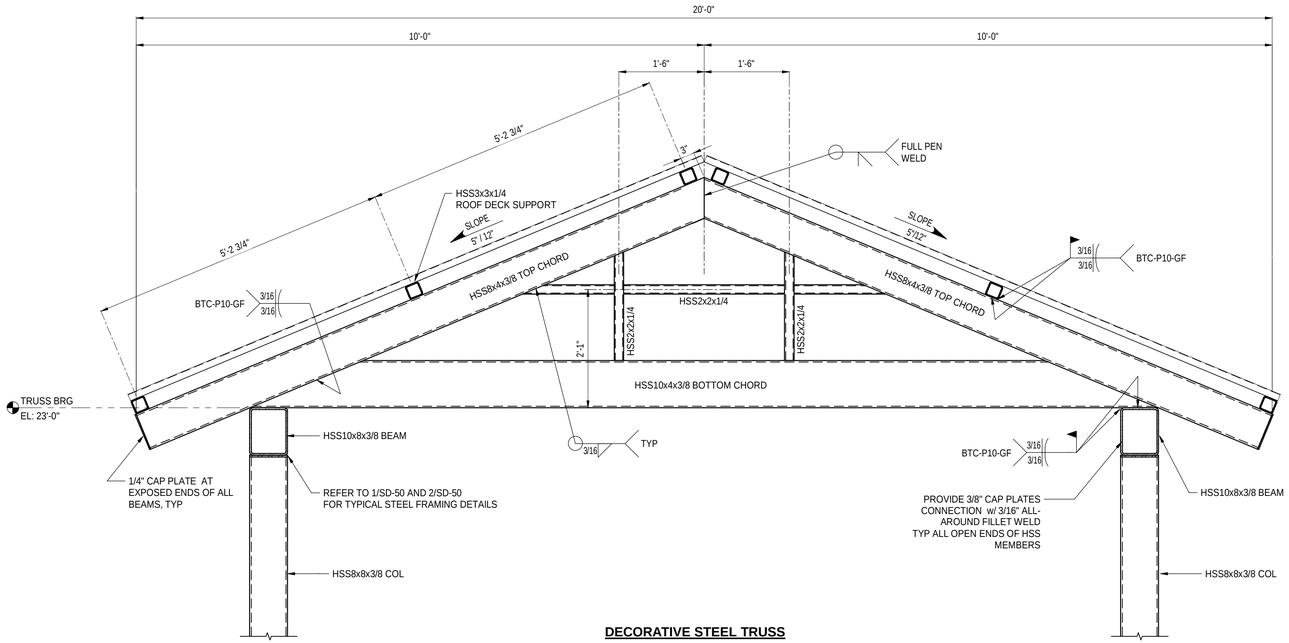
SPRINGFIELD CITY COMPLEX
502100962-005
8/6/2024 7:56:30 AM

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION



1 S3-22 FS - CMU COLUMN SECTION

3/8" = 1'-0"



DECORATIVE STEEL TRUSS

NON DECORATIVE STEEL TRUSS

2 S3-22 ENTRANCE TOWER TRUSS FRAMING DETAIL

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS8x8	INDICATES HSS8x8x3/8 STEEL COLUMN
HSS6x5	INDICATES HSS6x5x1/4 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS10x6	INDICATES HSS10x8x3/8 STEEL FRAMING
C6	INDICATES C6x8.2 STEEL FRAMING

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Engineers EB - 0000295
Surveyors LB - 0000183

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV	DESCRIPTION
10-3-2023		

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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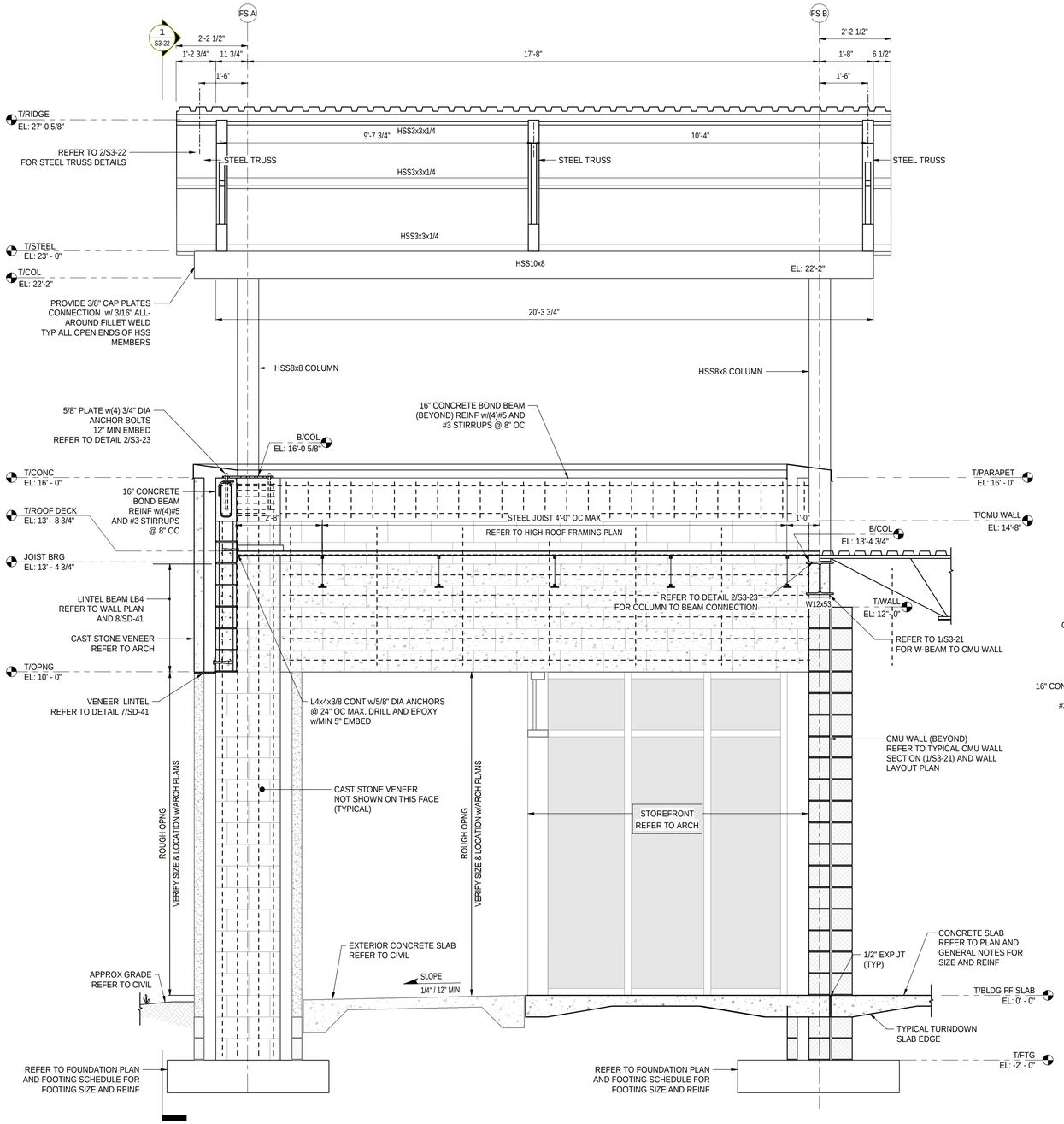
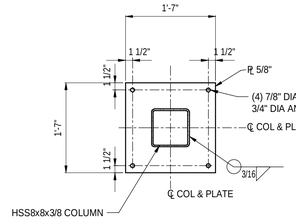
SHEET TITLE:
FIRE STATION ENTRANCE TOWER FRAMING DETAILS

SHEET NUMBER:
S3-22

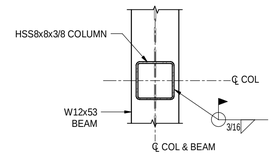


1 S3-23 FS - FRONT ENTRANCE CMU COLUMN SECTION

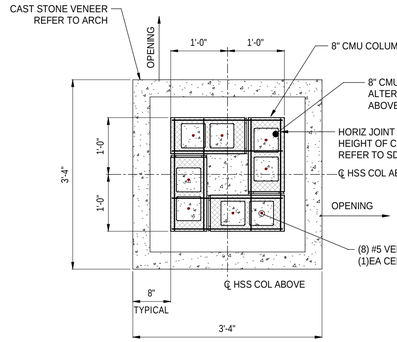
1/2" = 1'-0"



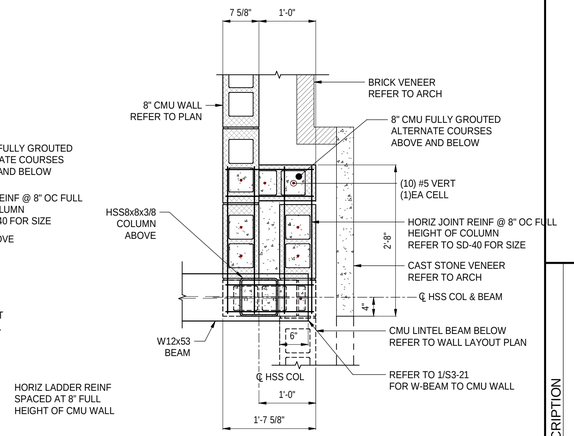
BASE PLATE DETAIL



HSS COLUMN TO W-BEAM CONNECTION

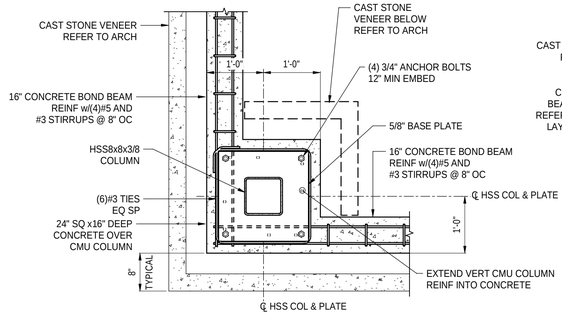


CMU COLUMN BELOW OPENING

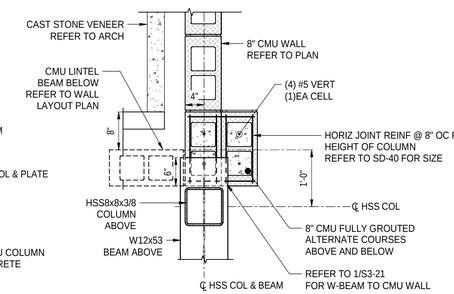


HORIZ LADDER REINF
SPACED AT 8" FULL
HEIGHT OF CMU WALL

CMU COLUMN AND W-BEAM
COLUMN LINES FS 6 - FS B



TOP OF CMU COLUMN



CMU COLUMN AND W-BEAM
COLUMN LINES FS 5 - FS B

2 S3-23 FRONT ENTRANCE CMU COLUMN AND STEEL COLUMN DETAILS

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS8x8	INDICATES HSS8x8x3/8 STEEL COLUMN
HSS6x5	INDICATES HSS6x5x1/4 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS10x6	INDICATES HSS10x8x3/8 STEEL FRAMING
C6	INDICATES C6x8.2 STEEL FRAMING

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV	DATE

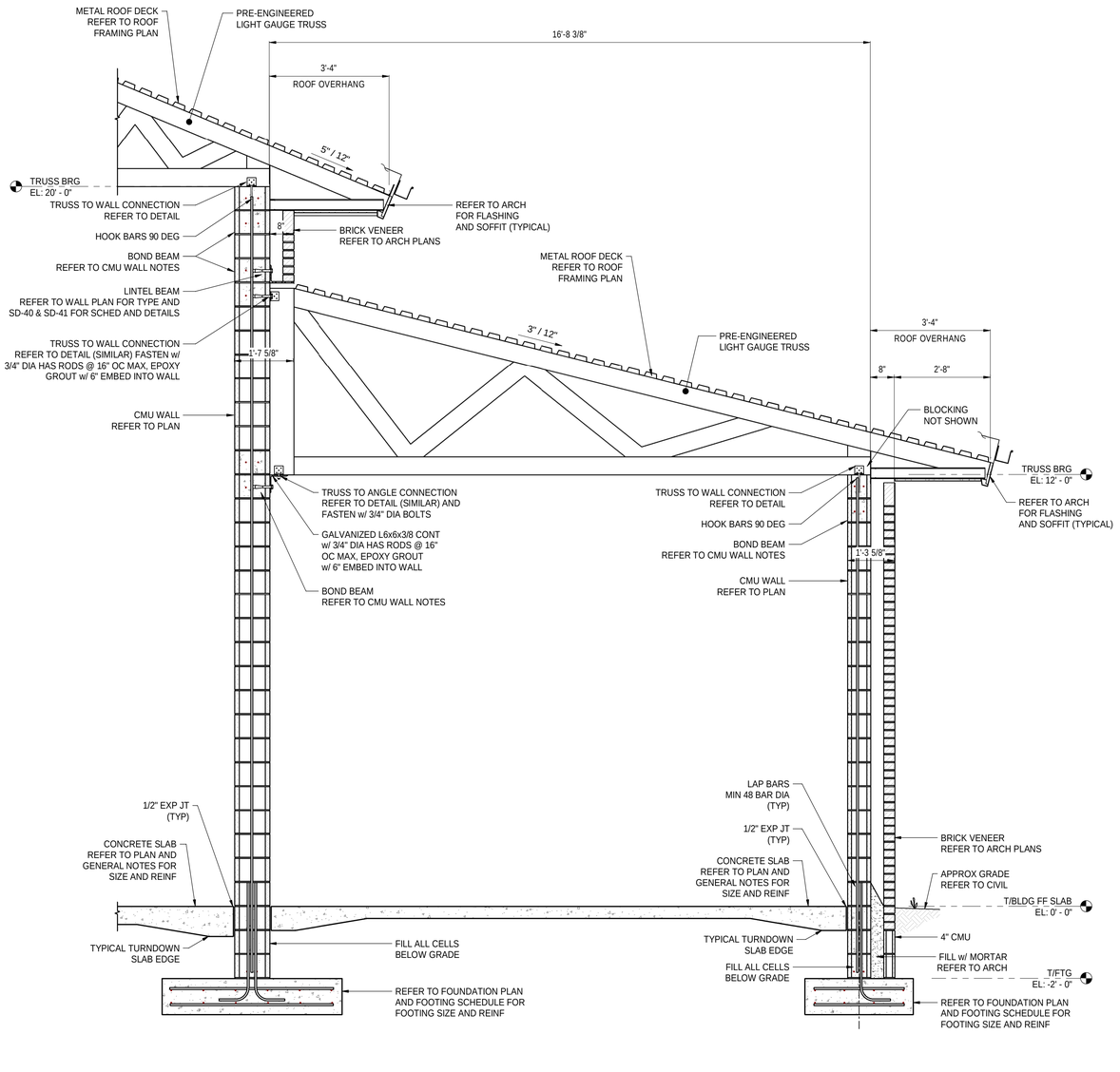
DATE:	10-3-2023
DESIGNED BY:	MJT
DRAWN BY:	KWD
CHECKED BY:	LJD
PROJECT ENGINEER:	M. TUGWELL
PROJECT MANAGER:	T. JARMAN
Mott MacDonald PROJECT NO:	502100062-005

SHEET TITLE:
FIRE STATION ENTRANCE TOWER FRAMING

SHEET NUMBER:
S3-23

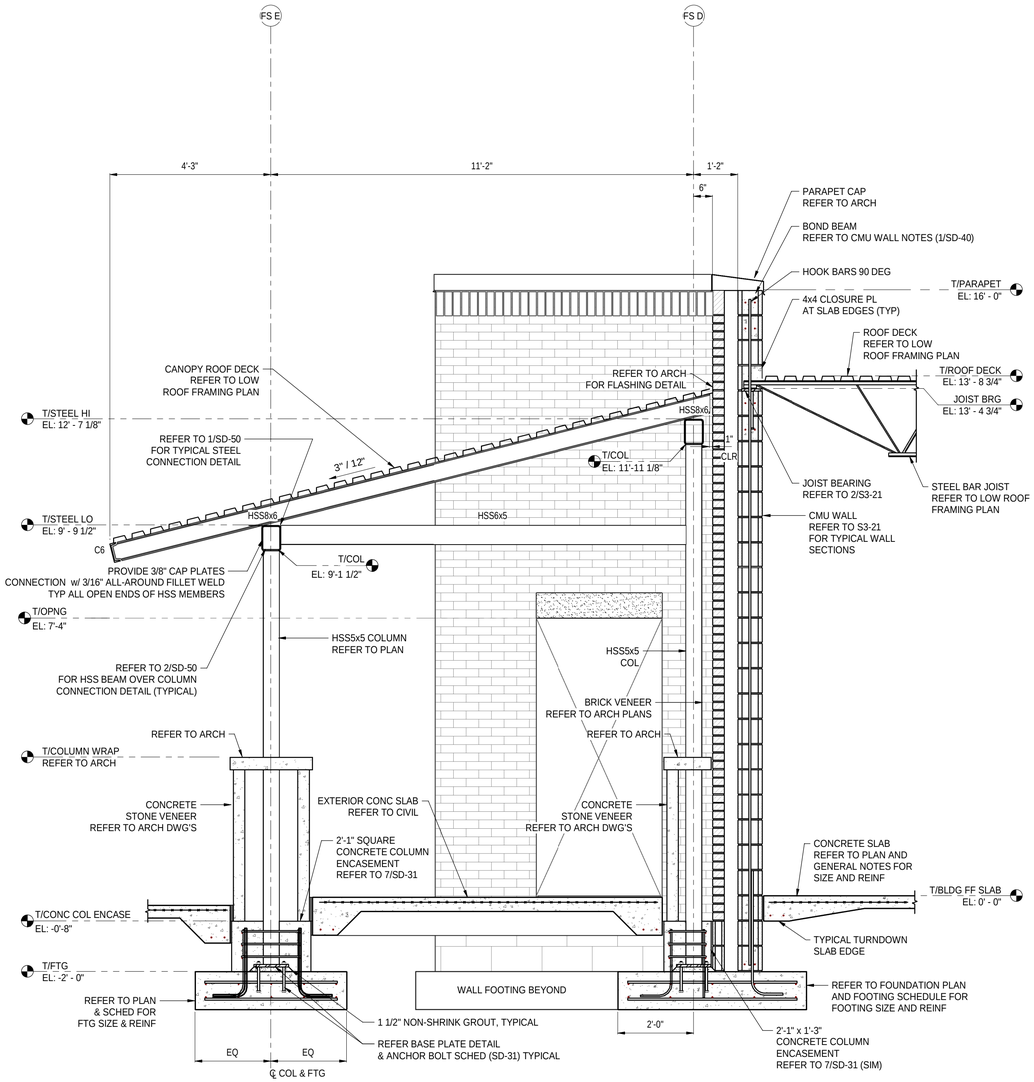
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:33 AM

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION



1 S3-24 FS - SECTION AT LOW TRUSS

1/2" = 1'-0"



2 S3-24 FS - BACK CANOPY SECTION

1/2" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
4. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
5. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
6. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS8x8	INDICATES HSS8x8x3/8 STEEL COLUMN
HSS6x5	INDICATES HSS6x5x1/4 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
HSS10x6	INDICATES HSS10x8x3/8 STEEL FRAMING
C6	INDICATES C6x8.2 STEEL FRAMING

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Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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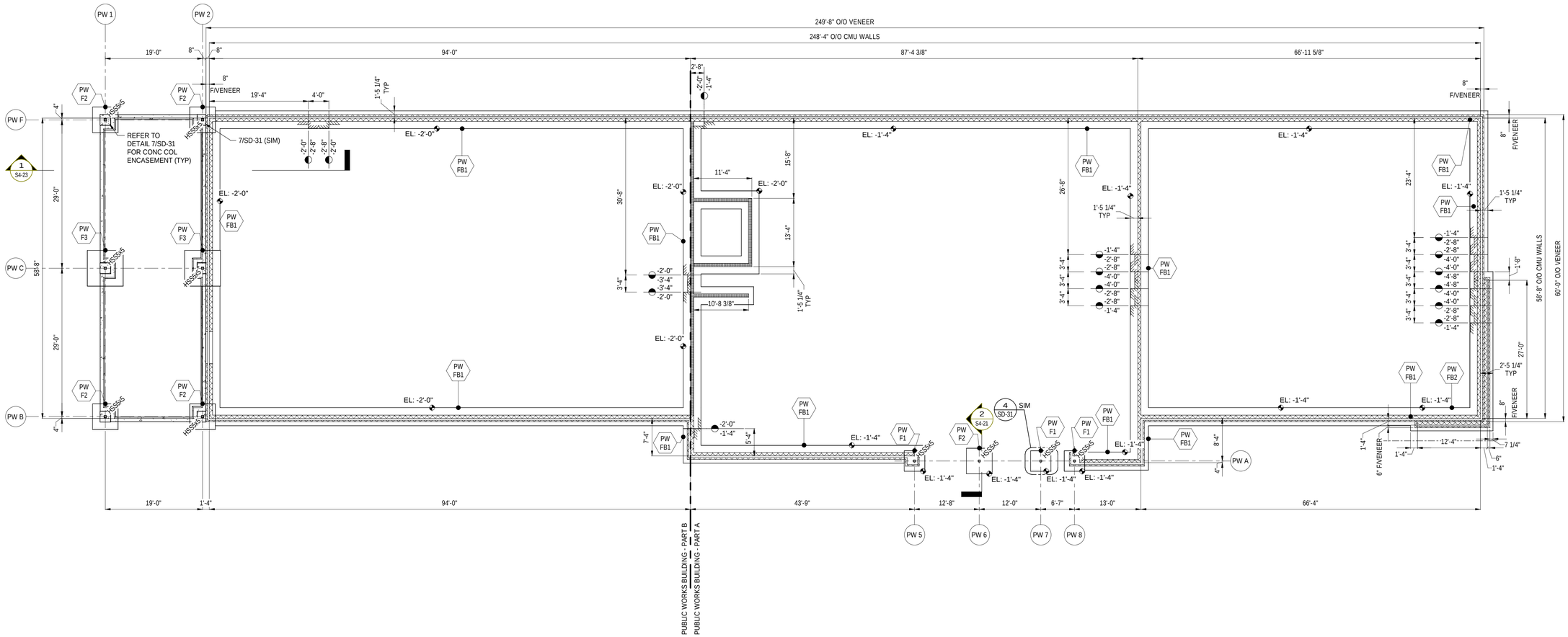
SHEET TITLE:
FIRE STATION BUILDING SECTIONS

SHEET NUMBER:
S3-24

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION



N

1 PW - FOUNDATION PLAN

3/32" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR PUBLIC WORKS BUILDING STRUCTURAL PLANS.
2. REFER TO PLAN FOR TOP OF REFERENCE FOUNDATION ELEVATION.
3. REFER TO SD-30 AND SD-31 FOR FOUNDATION DETAILS.
4. REFER TO SD-31 FOR BASE PLATE AND ANCHOR BOLT DETAILS.
5. CENTER ALL COLUMNS ON FOUNDATIONS, UNLESS OTHERWISE NOTED.
6. REFER TO SD-40 AND SD-41 FOR CMU WALL TYPICAL DETAILS.
7. START AND END REINFORCING WITH CLEAR COVER NOT TO EXCEED MINIMUM ALLOWED COVER ON ALL SIDES OF FOOTING. REMAINDER OF REINFORCING SHALL BE PLACED WITHOUT EXCEEDING SPACING SHOWN IN SCHEDULE.
8. LONG REINFORCING REFERS TO THE LONGER LENGTH BARS PLACED ACROSS THE SHORT SIDE. SHORT REINFORCING REFERS TO THE SHORTER LENGTH BARS PLACED ACROSS THE LONG SIDE.
9. FOOTING SIZE SHOWN IS A MAXIMUM OUTSIDE DIMENSIONS AND THICKNESS. REFER TO PLAN FOR ACTUAL SHAPE AND ORIENTATION.
10. EXTEND LONGITUDINAL FOOTING REINFORCING INTO ADJACENT FOOTING WITH MIN. CLASS 'B' LAP SPLICE.
11. REFER TO ARCH., CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR COORDINATION.

FOOTING SCHEDULE

MARK	SIZE SHORT x LONG x THICKNESS	TOP		BOTTOM		REMARKS
		SHORT	LONG	SHORT	LONG	
PW-F1	4'-0" x 4'-0" x 1'-0"	(5)#5	(5)#5	(5)#5	(5)#5	
PW-F2	5'-0" x 5'-0" x 1'-0"	(6)#5	(6)#5	(6)#5	(6)#5	
PW-F3	7'-0" x 7'-0" x 1'-0"	(8)#5	(8)#5	(8)#5	(8)#5	
PW-FB1	3'-6" x CONT x 1'-0"	#5@8" OC	(4)#5 CONT	#5@8" OC	(4)#5 CONT	
PW-FB2	4'-6" x CONT x 1'-0"	#5@8" OC	(5)#5 CONT	#5@8" OC	(5)#5 CONT	

LEGEND

- INDICATES 8" CMU WALL — REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES INTERIOR 8" CMU PARTITION WALL — REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES 4" BRICK/CMU VENEER — REFER TO ARCHITECTURAL DRAWINGS
- F# — INDICATES FOUNDATION TYPE; REFER TO FOOTING SCHEDULE AND SHEETS SD-30 & SD-31
- EL: X'-XX" — INDICATES TOP OF FOOTING REFERENCE ELEVATION; REFER TO GENERAL NOTES
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN; REFER TO 6/SD-31 FOR BASE PLATE DETAIL & ANCHOR BOLT SCHEDULE
- UPPER EL / STEP DN EL — INDICATES FOOTING STEP; REFER TO SD-30

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Engineers EB - 0000035
Surveyors LB - 0000183

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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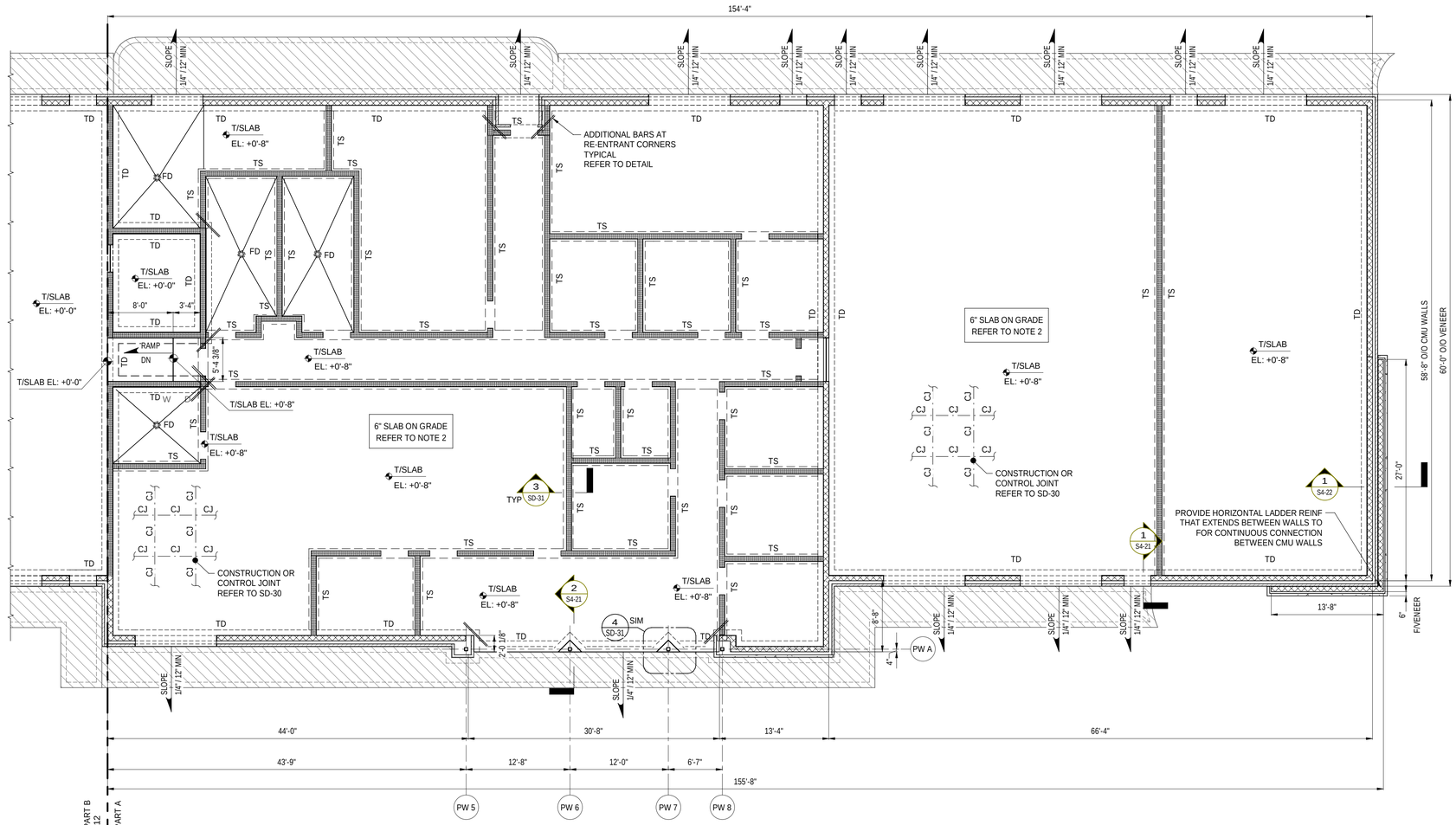
SHEET TITLE:
PUBLIC WORKS FOUNDATION PLAN

SHEET NUMBER:
S4-10



N

1 PW - SLAB ON GRADE PLAN - PART A

1/8" = 1'-0"

SLAB ON GRADE PLANS NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. SLAB ON GRADE SHALL BE MINIMUM 6" THICK CONCRETE PLACED ON 20 MIL MINIMUM VAPOR BARRIER ON COMPACTED FILL (REFER TO SPEC 072650). REINFORCE SLAB ON GRADE WITH 6x6 - W4.0 x W4.0 WWF IN FLAT SHEETS. DOUBLE THE WWF FOR 3'-0" MINIMUM AROUND SLAB EDGES. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AND REQUIREMENTS. USE CHAIRS TO POSITION REINFORCING 1 1/2" BELOW TOP OF SLAB AND TO MAINTAIN THAT DEPTH DURING CONCRETE PLACEMENT.
3. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR PUBLIC WORKS STRUCTURAL PLANS.
4. COORDINATE ALL SLAB PENETRATION SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. CONTRACTOR SHALL SUBMIT CONTROL / CONSTRUCTION JOINT LOCATION PLAN TO EOR FOR REVIEW PRIOR TO PLACING.
6. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
7. REFER TO SD-40 AND SD-41 FOR CONCRETE MASONRY DETAILS.
8. "+-" INDICATES THICKNESS OF CONCRETE ABOVE T/SLAB.
9. COORDINATE RECESSED SLAB LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
10. SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLAN.

LEGEND

- INDICATES 8" CMU WALL BEARING ON FOOTING. REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES INTERIOR 8" CMU PARTITION WALL. REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES BRICK VENEER. REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES BRICK VENEER. REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES COLUMN AND SLAB ISOLATION & CONTROL JOINTS, REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TD — INDICATES TURNDOWN SLAB. REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TS — INDICATES THICKENED SLAB. REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- CJ — INDICATES SLAB CONTROL JOINT. REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- EL: X'-XX" — INDICATES TOP OF SLAB REFERENCE ELEVATION. REFER TO GENERAL NOTES
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- HSS6x6 — INDICATES HSS6x6x3/8 STEEL COLUMN
- FD — INDICATES FLOOR DRAIN - SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLANS
- INDICATES APPROXIMATE EXTERIOR SLABS AND SIDEWALKS. REFER TO CIVIL PLANS FOR ACTUAL LAYOUT AND ELEVATIONS

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

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DATE: 10-3-2023
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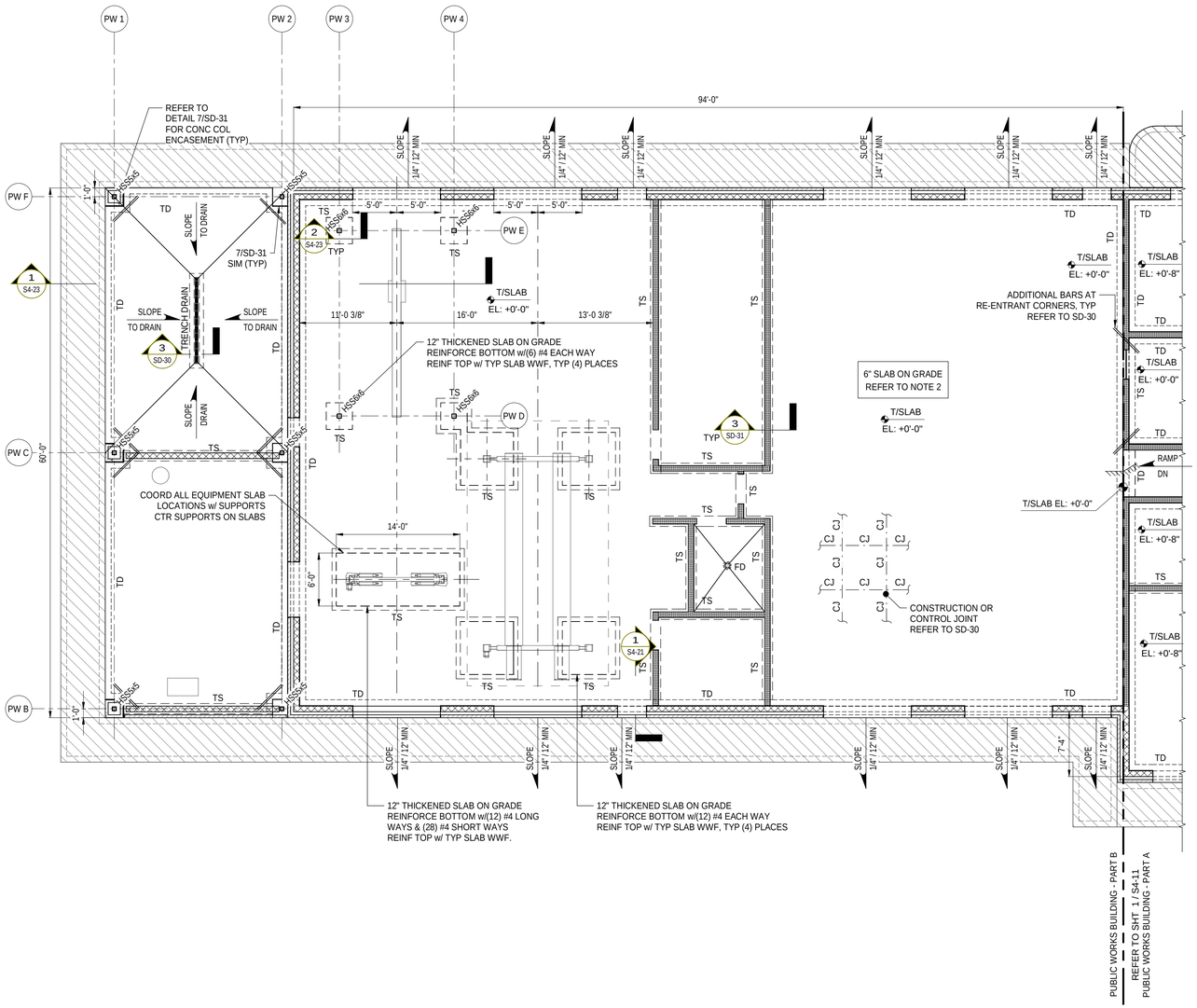
SHEET TITLE:
PUBLIC WORKS SLAB ON GRADE PLAN - PART A

SHEET NUMBER:
S4-11



N

1 PW - SLAB ON GRADE PLAN - PART B

1/8" = 1'-0"

SLAB ON GRADE PLANS NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. SLAB ON GRADE SHALL BE MINIMUM 6" THICK CONCRETE PLACED ON 20 MIL MINIMUM VAPOR BARRIER ON COMPACTED FILL (REFER TO SPEC 072650). REINFORCE SLAB ON GRADE WITH 6x6 - W4.0 x W4.0 WWF IN FLAT SHEETS. DOUBLE THE WWF FOR 3'-0" MINIMUM AROUND SLAB EDGES. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AND REQUIREMENTS. USE CHAIRS TO POSITION REINFORCING 1 1/2" BELOW TOP OF SLAB AND TO MAINTAIN THAT DEPTH DURING CONCRETE PLACEMENT.
3. TOP OF SLAB ELEVATION = 0'-0". UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR PUBLIC WORKS STRUCTURAL PLANS.
4. COORDINATE ALL SLAB PENETRATION SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. CONTRACTOR SHALL SUBMIT CONTROL / CONSTRUCTION JOINT LOCATION PLAN TO EOR FOR REVIEW PRIOR TO PLACING.
6. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
7. REFER TO SD-40 AND SD-41 FOR CONCRETE MASONRY DETAILS.
8. "+-" INDICATES THICKNESS OF CONCRETE ABOVE T/SLAB.
9. COORDINATE RECESSED SLAB LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
10. SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLAN.

LEGEND

- INDICATES 8" CMU WALL BEARING ON FOOTING. REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES INTERIOR 8" CMU PARTITION WALL. REFER TO SD-40 & SD-41, WALL SECTIONS, AND WALL LAYOUT PLAN FOR ADDITIONAL REQUIREMENTS
- INDICATES BRICK VENEER. REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES BRICK VENEER. REFER TO & VERIFY LOCATION w/ARCHITECTURAL DRAWINGS
- INDICATES COLUMN AND SLAB ISOLATION & CONTROL JOINTS, REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TD — INDICATES TURNDOWN SLAB. REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- TS — INDICATES THICKENED SLAB. REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- CJ — INDICATES SLAB CONTROL JOINT. REFER TO SHEET SD-30 & SD-31 FOR DETAILS
- EL: X'-XX" — INDICATES TOP OF SLAB REFERENCE ELEVATION. REFER TO GENERAL NOTES
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- HSS6x6 — INDICATES HSS6x6x3/8 STEEL COLUMN
- FD — INDICATES FLOOR DRAIN - SLOPE SLAB TO DRAIN AS INDICATED ON ARCHITECTURAL PLANS
- INDICATES APPROXIMATE EXTERIOR SLABS AND SIDEWALKS. REFER TO CIVIL PLANS FOR ACTUAL LAYOUT AND ELEVATIONS

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MOTT MACDONALD

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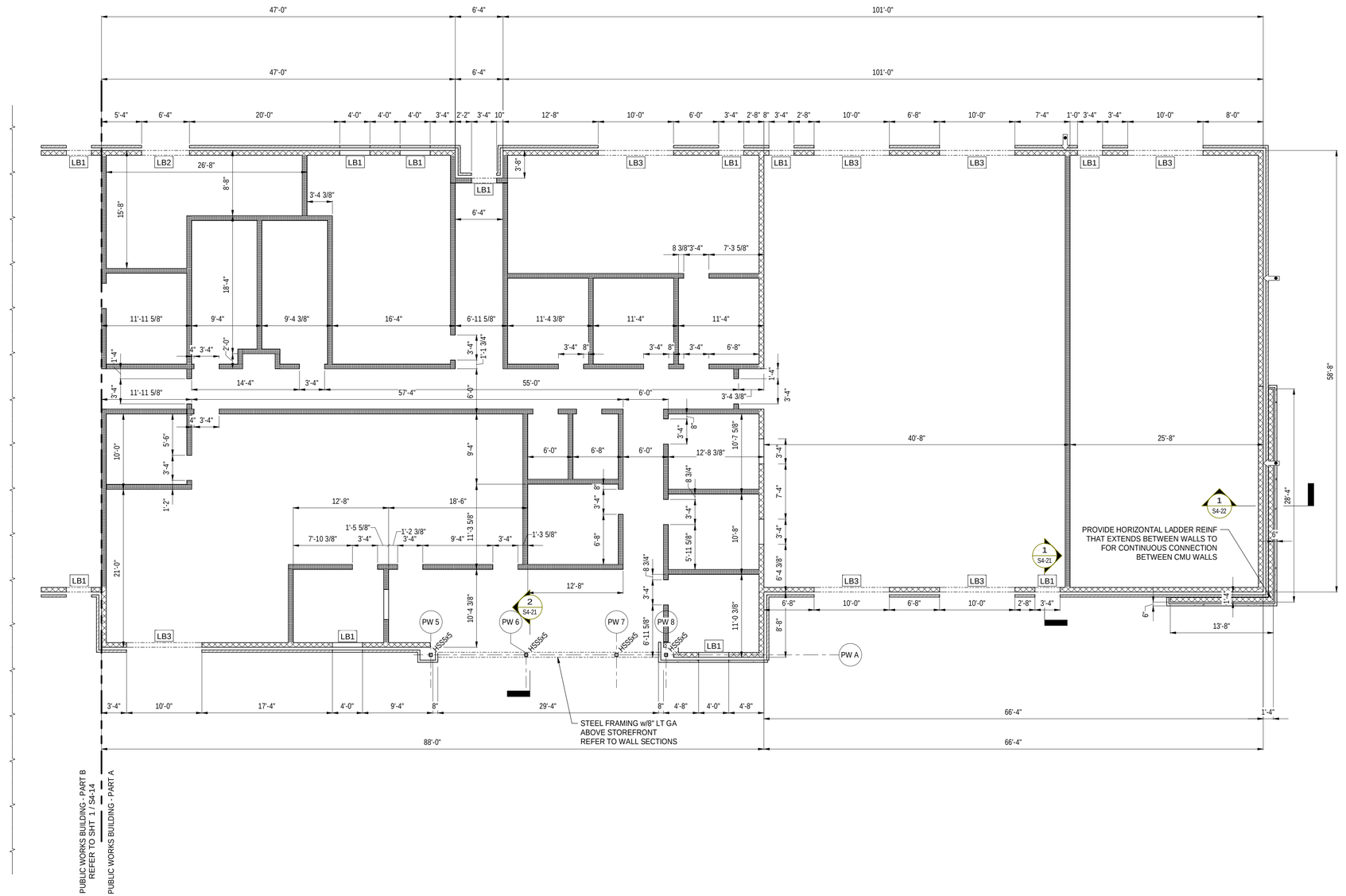
SHEET TITLE:
PUBLIC WORKS SLAB ON GRADE PLAN - PART B

SHEET NUMBER:
S4-12



N

1 PW - WALL PLAN - PART A

1/8" = 1'-0"

WALL LAYOUT PLAN NOTES:

1. REFER TO GENERAL NOTES SHEET AND TYPICAL CONCRETE MASONRY DETAILS FOR CMU WALL REINFORCING AND DETAILS.
2. TOP OF EXTERIOR CMU WALL ELEVATION = 16'-8" UNLESS OTHERWISE NOTED REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. TOP OF INTERIOR CMU PARTITION WALL ELEVATION = 16'-5" UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
4. COORDINATE ALL CMU WALL OPENING SIZE AND LOCATION WITH ARCHITECUAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

LEGEND

- INDICATES 8" CMU WALL BEARING ON FOOTING
  REINFORCE WITH #5 @ 24" OC MAX
  REFER TO SD-40 & SD-41 FOR ADDITIONAL REQUIREMENTS
- INDICATES INTERIOR 8" CMU PARTITION WALL
  REINFORCE WITH #5 @ 48" OC MAX
  REFER TO SHEETS SD-40 & SD-41, AND
  WALL SECTIONS FOR ADDITIONAL REQUIREMENTS
  VERIFY LOCATION OF WALLS AND OPENINGS
  w/ARCHITECTURAL DRAWINGS
- INDICATES BRICK VENEER
  REFER TO & VERIFY LOCATION
  w/ARCHITECTURAL DRAWINGS
- INDICATES CAST STONE VENEER
  REFER TO & VERIFY LOCATION
  w/ARCHITECTURAL DRAWINGS
- INDICATES MASONRY CONTROL JOINT
  FULL HEIGHT OF WALL (SPACE @ 24'-0" OC MAX)
  REFER TO TYPICAL CONCRETE MASONRY DETAILS
- LB# INDICATES LINTEL BEAM TYPE
  REFER TO LINTEL BEAM SCHEDULE AND TYPICAL CONCRETE MASONRY DETAILS
- HSS5x5 INDICATES HSS5x5x3/8 STEEL COLUMN

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Architects AA - C000035
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Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

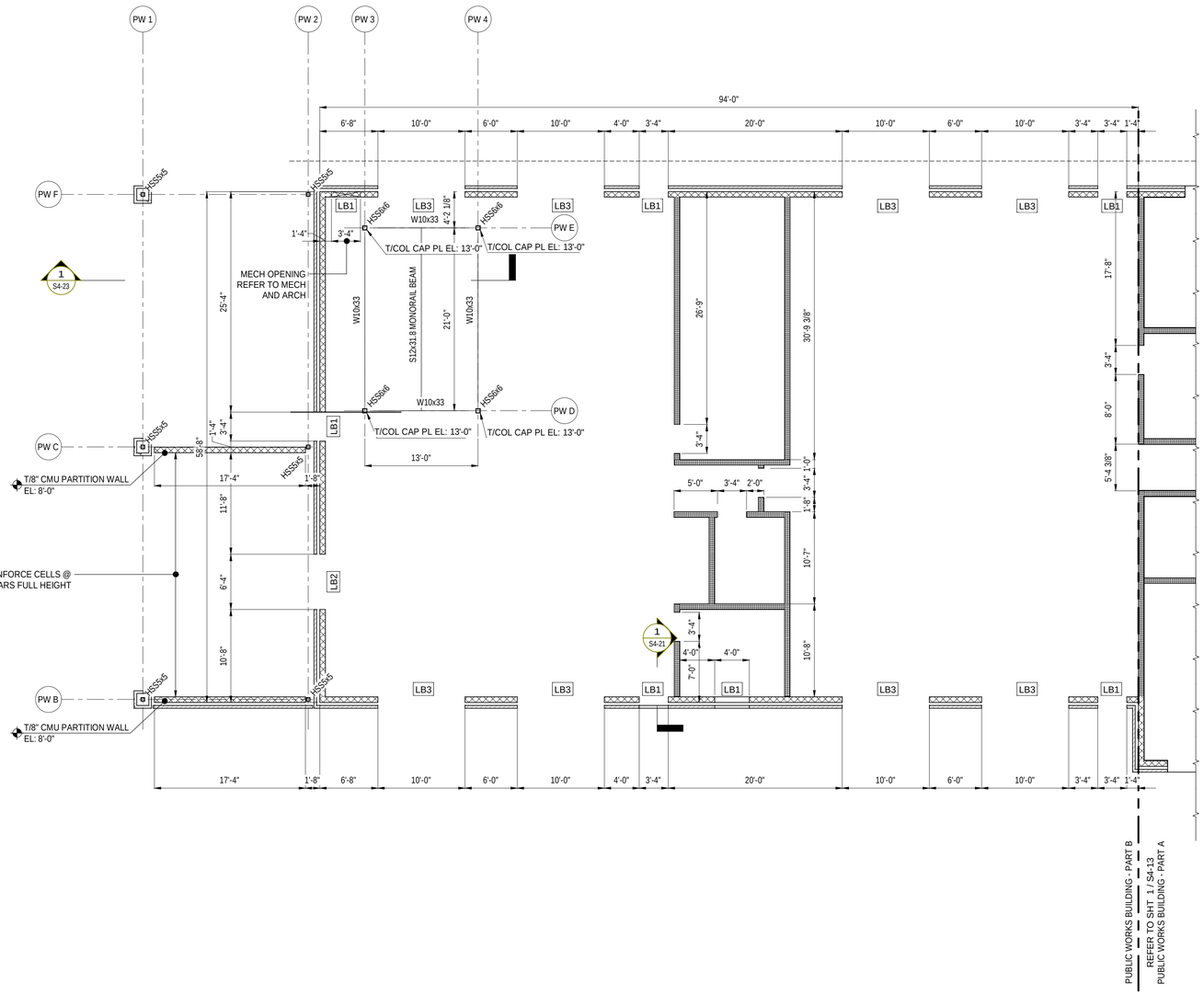
DATE	REV	DESCRIPTION

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Matt MacDonald PROJECT NO: 502100062-005

This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C. Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

SHEET TITLE:
PUBLIC WORKS WALL LAYOUT PLAN - PART A

SHEET NUMBER:
S4-13



N

1 PW - WALL PLAN - PART B

1/8" = 1'-0"

WALL LAYOUT PLAN NOTES:

1. REFER TO GENERAL NOTES SHEET AND TYPICAL CONCRETE MASONRY DETAILS FOR CMU WALL REINFORCING AND DETAILS.
2. TOP OF EXTERIOR CMU WALL ELEVATION = 16'-8" UNLESS OTHERWISE NOTED REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. TOP OF INTERIOR CMU PARTITION WALL ELEVATION = 16'-5" UNLESS OTHERWISE NOTED. REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
4. COORDINATE ALL CMU WALL OPENING SIZE AND LOCATION WITH ARCHITECUAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

LEGEND

- INDICATES 8" CMU WALL BEARING ON FOOTING
  REINFORCE WITH #5 @ 24" OC MAX
  REFER TO SD-40 & SD-41 FOR ADDITIONAL REQUIREMENTS
- INDICATES INTERIOR 8" CMU PARTITION WALL
  REINFORCE WITH #5 @ 48" OC MAX
  REFER TO SHEETS SD-40 & SD-41, AND
  WALL SECTIONS FOR ADDITIONAL REQUIREMENTS
  VERIFY LOCATION OF WALLS AND OPENINGS
  w/ARCHITECTURAL DRAWINGS
- INDICATES BRICK VENEER
  REFER TO & VERIFY LOCATION
  w/ARCHITECTURAL DRAWINGS
- INDICATES CAST STONE VENEER
  REFER TO & VERIFY LOCATION
  w/ARCHITECTURAL DRAWINGS
- INDICATES MASONRY CONTROL JOINT
  FULL HEIGHT OF WALL (SPACE @ 24'-0" OC MAX)
  REFER TO TYPICAL CONCRETE MASONRY DETAILS
- LB# INDICATES LINTEL BEAM TYPE
  REFER TO LINTEL BEAM SCHEDULE AND TYPICAL
  CONCRETE MASONRY DETAILS
- HSS5x5 INDICATES HSS5x5x3/8 STEEL COLUMN

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Surveyors LB - 0000183

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100962-005

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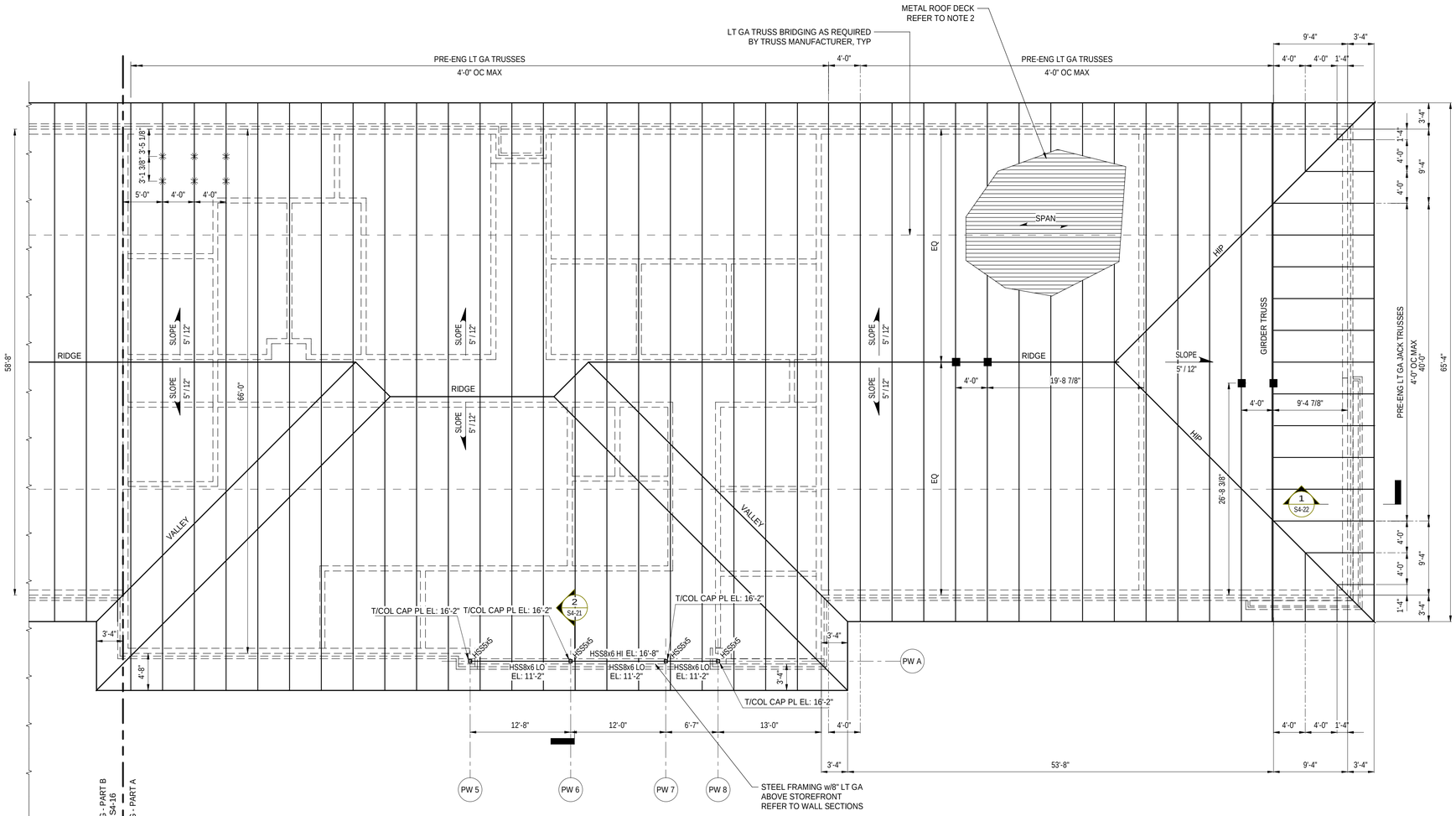
SHEET TITLE:
PUBLIC WORKS WALL LAYOUT PLAN - PART B

SHEET NUMBER:
S4-14

ROOF FRAMING PLAN NOTES

1. TRUSS BEARING ELEVATION = 16'-8" UNLESS OTHERWISE NOTED
2. ROOF DECK SHALL BE VULCRAFT 1.5B 18ga OR EQUIVALENT. ATTACH DECK TO ROOF TRUSSES AND PERIMETER EDGE ANGLES WITH #12 TEK HWH FASTENERS (OR EQUIVALENT) USING 36/7 PATTERN. PROVIDE MINIMUM (4) #10 HWH SIDELAP FASTENERS BETWEEN SUPPORTS. TYPICAL UNLESS OTHERWISE NOTED.
3. REFER TO SD-40, SD-41, AND SD-50 FOR TYPICAL TRUSS CONNECTIONS, TRUSS BLOCKING, STEEL JOIST CONNECTIONS, AND STEEL DETAILS.
4. COORDINATE ALL ROOF DECK PENETRATION SIZE AND LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. REFER TO WALL LAYOUT PLANS FOR WALL LAYOUT AND TOP OF WALL ELEVATIONS.



N

1 PW - ROOF FRAMING PLAN - PART A
1/8" = 1'-0"

LEGEND

- INDICATES CMU WALL BELOW
- INDICATES BRICK VENEER REFER TO ARCHITECTURE
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- HSS10x4 — INDICATES HSS10x4x3/8 STEEL FRAMING
- C8 — INDICATES C8x11.5 STEEL FRAMING
- ✳ — EQUIPMENT POINT LOAD (125 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL
- ■ — EQUIPMENT POINT LOAD (175 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
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PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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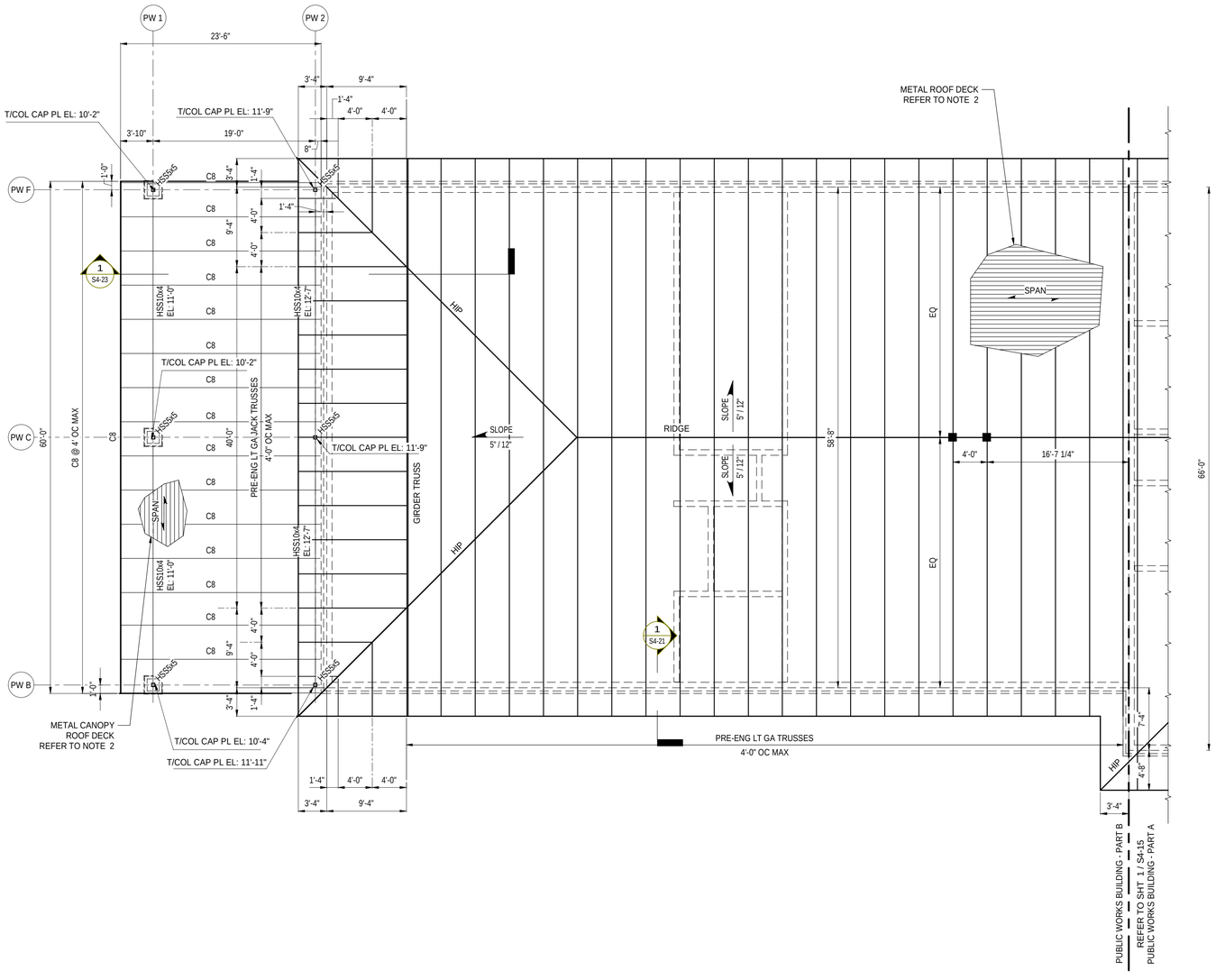
SHEET TITLE:
PUBLIC WORKS ROOF FRAMING PLAN - PART A

SHEET NUMBER:
S4-15



N

1 PW - ROOF FRAMING PLAN - PART B

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. TRUSS BEARING ELEVATION = 16'-8" UNLESS OTHERWISE NOTED
2. ROOF DECK SHALL BE VULCRAFT 1.5B 18ga OR EQUIVALENT. ATTACH DECK TO ROOF TRUSSES AND PERIMETER EDGE ANGLES WITH #12 TEK HWH FASTENERS (OR EQUIVALENT) USING 36/7 PATTERN. PROVIDE MINIMUM (4) #10 HWH SIDELAP FASTENERS BETWEEN SUPPORTS. TYPICAL UNLESS OTHERWISE NOTED.
3. REFER TO SD-40, SD-41, AND SD-50 FOR TYPICAL TRUSS CONNECTIONS, TRUSS BLOCKING, STEEL JOIST CONNECTIONS, AND STEEL DETAILS.
4. COORDINATE ALL ROOF DECK PENETRATION SIZE AND LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
5. REFER TO WALL LAYOUT PLANS FOR WALL LAYOUT AND TOP OF WALL ELEVATIONS.

LEGEND

- INDICATES CMU WALL BELOW
- INDICATES BRICK VENEER REFER TO ARCHITECTURE
- HSS5x5 — INDICATES HSS5x5x3/8 STEEL COLUMN
- HSS10x4 — INDICATES HSS10x4x3/8 STEEL FRAMING
- C8 — INDICATES C8x11.5 STEEL FRAMING
- ✳ — EQUIPMENT POINT LOAD (125 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL
- ■ — EQUIPMENT POINT LOAD (175 LBS) REFER TO 4/SD-51 FOR EQUIPMENT SUPPORT DETAIL

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

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PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
PUBLIC WORKS ROOF FRAMING PLAN - PART B

SHEET NUMBER:
S4-16

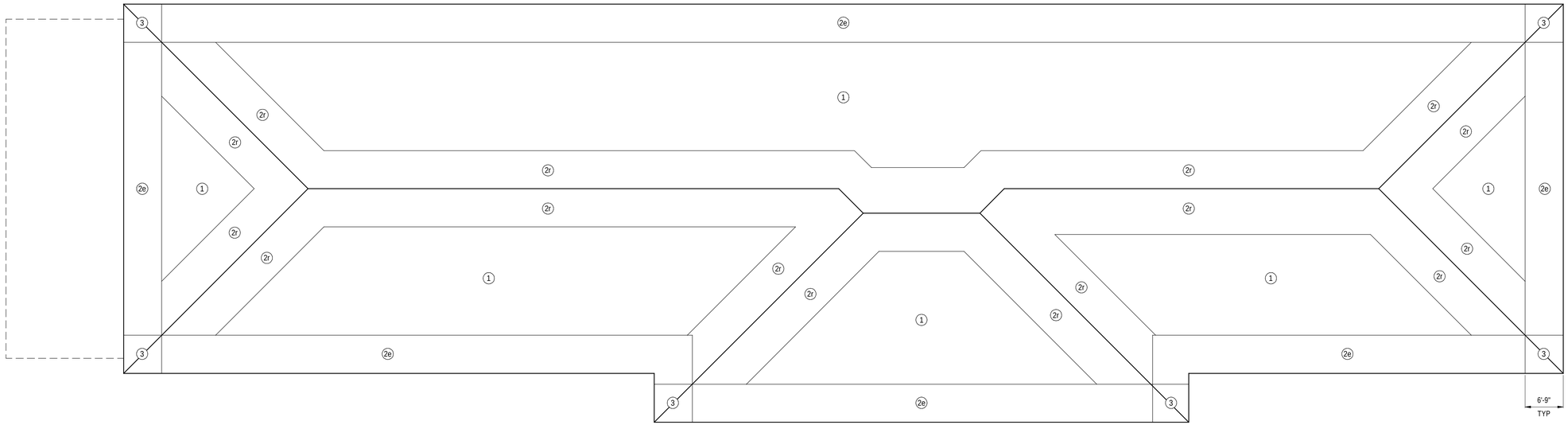
ROOF PRESSURES				
ZONE	EFFECTIVE AREA (FT^2)	PRESSURE (PSF)		
		POSITIVE	NEGATIVE	ROOF OVERHANG
1	10	15.2	-27.2	N/A
	20	13.1	-24.1	N/A
	50	10.4	-20.0	N/A
	100	10.0	-16.9	N/A
2e	10	15.2	-37.6	-45.3
	50	10.4	-28.3	-41.2
	100	10.0	-24.4	-39.4
	200	10.0	-20.3	-37.6
2r	10	15.2	-37.6	N/A
	50	10.4	-28.3	N/A
	100	10.0	-24.4	N/A
	200	10.0	-20.3	N/A
3	10	15.2	-37.6	-53.6
	50	10.4	-28.3	-40.4
	100	10.0	-24.4	-34.7
	200	10.0	-20.3	-29.0

WALL PRESSURES			
ZONE	EFFECTIVE AREA (FT^2)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE
4	10	20.3	-22.1
	50	18.2	-20.0
	200	16.4	-18.1
	500	15.2	-16.9
5	10	20.3	-27.2
	50	18.2	-23.0
	200	16.4	-19.3
	500	15.2	-16.9

NOTES:

1. WALL SECTION 5 EXTENDS FROM THE BUILDING CORNERS A DISTANCE OF 6'-9". WALL SECTION 4 IS THE REMAINDER OF THE WALL.
2. THE TRUSS MANUFACTURER MAY REDUCE NEGATIVE PRESSURE BY 5 PSF TO PRODUCE NET UPLIFT PRESSURE.
3. COMPONENT AND CLADDING PRESSURES SHOWN ARE ALLOWABLE PRESSURES AND MAY NOT BE REDUCED.

PW ROOF & WIND PRESSURES



N

1 / S4-20 PW - ROOF COMPONENT AND CLADDING

3/32" = 1'-0"

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION | DATE | REV

DATE: 10-3-2023
DESIGNED BY: MJT
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PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
PUBLIC WORKS ROOF COMPONENT & CLADDING

SHEET NUMBER:
S4-20

8/6/2024 7:56:41 AM 502100062-005 SPRINGFIELD CITY COMPLEX

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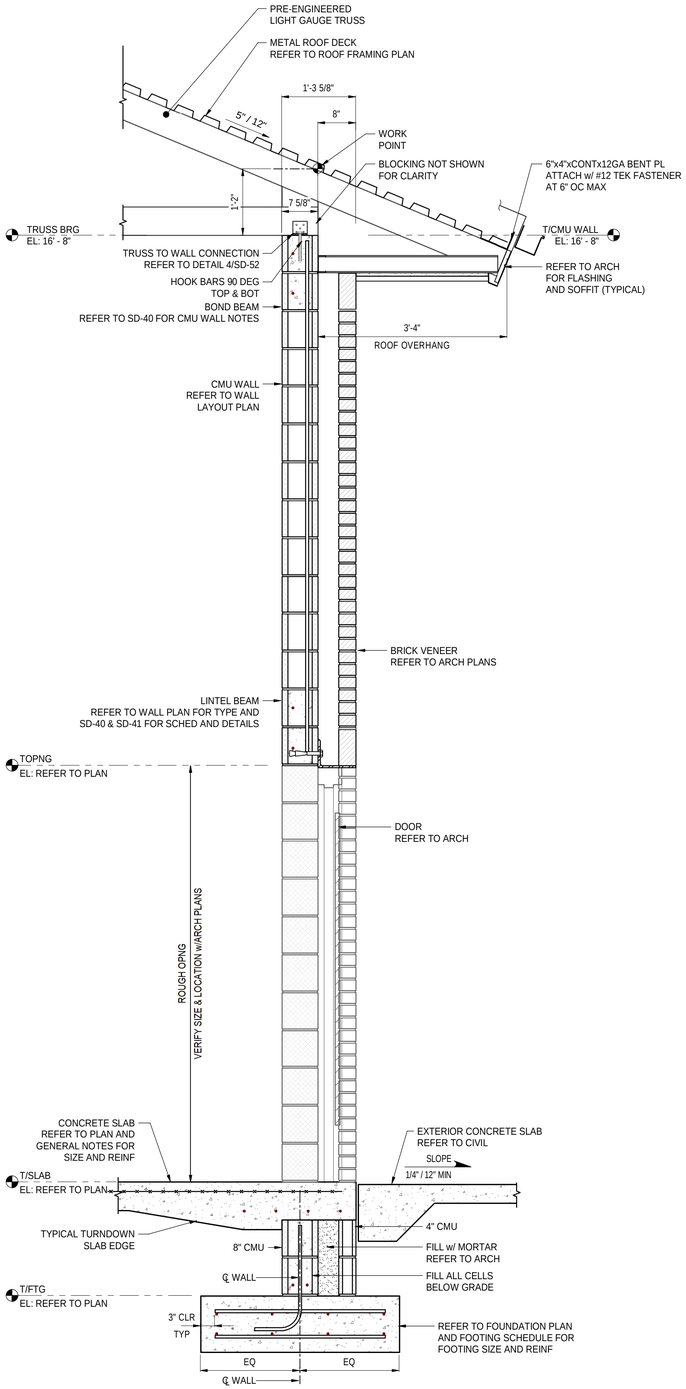
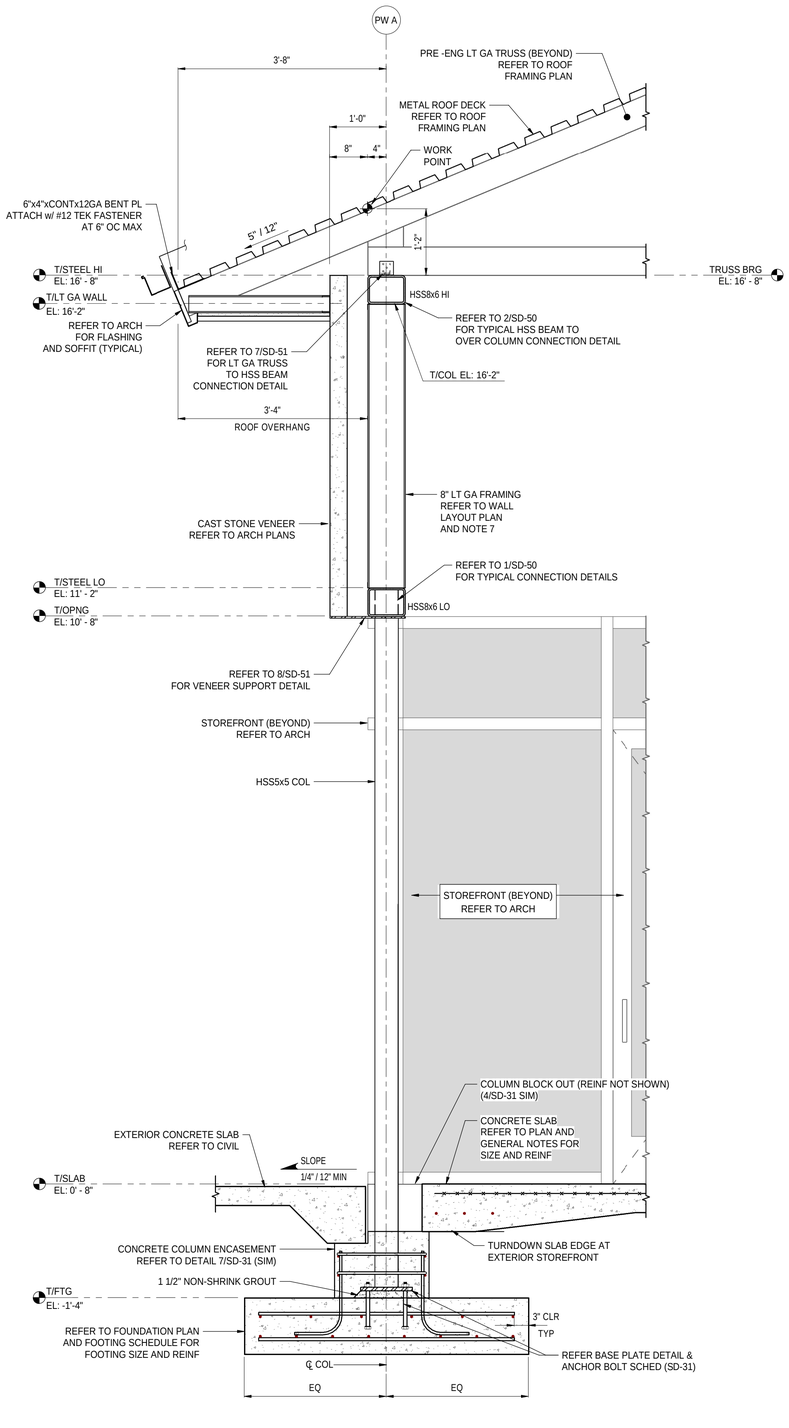


1 S4-21 PW - TYPICAL WALL SECTION AT OPENING

3/4" = 1'-0"



2 S4-21 PW - WALL SECTION AT FRONT ENTRANCE

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION - REFER TO SLAB ON GRADE PLAN
   REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION
   FOR STRUCTURAL PLANS.
3. TOP OF FOOTING ELEVATION - REFER TO FOUNDATION PLAN
   REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION
   FOR STRUCTURAL PLANS.
4. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
5. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
6. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
7. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
C8	INDICATES C8x11.5 STEEL CHANNEL FRAMING

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV	DATE

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
PUBLIC WORKS
TYPICAL WALL
SECTIONS

SHEET NUMBER:
S4-21

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:43 AM

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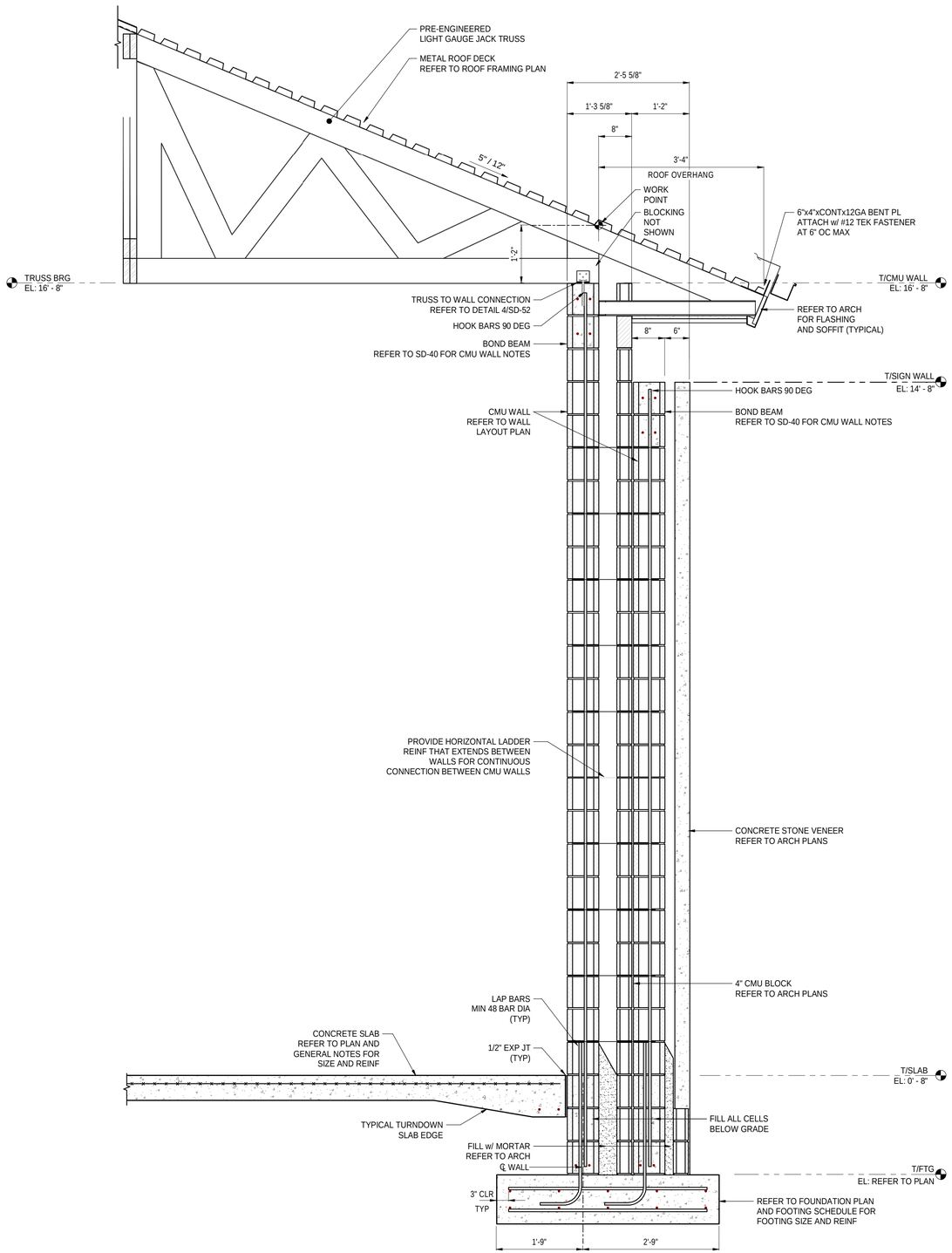

1 S4-22 PW - SECTION THRU SIGN WALL

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION - REFER TO SLAB ON GRADE PLAN
   REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. TOP OF FOOTING ELEVATION - REFER TO FOUNDATION PLAN
   REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
4. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
5. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
6. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
7. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
C8	INDICATES C8x11.5 STEEL CHANNEL FRAMING

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Surveyors LB - 0000183

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

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Mott MacDonald PROJECT NO:	502100962-005

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SHEET TITLE:
PUBLIC WORKS BUILDING SECTIONS

SHEET NUMBER:
S4-22

SPRINGFIELD CITY COMPLEX
502100962-005
8/6/2024 7:56:45 AM

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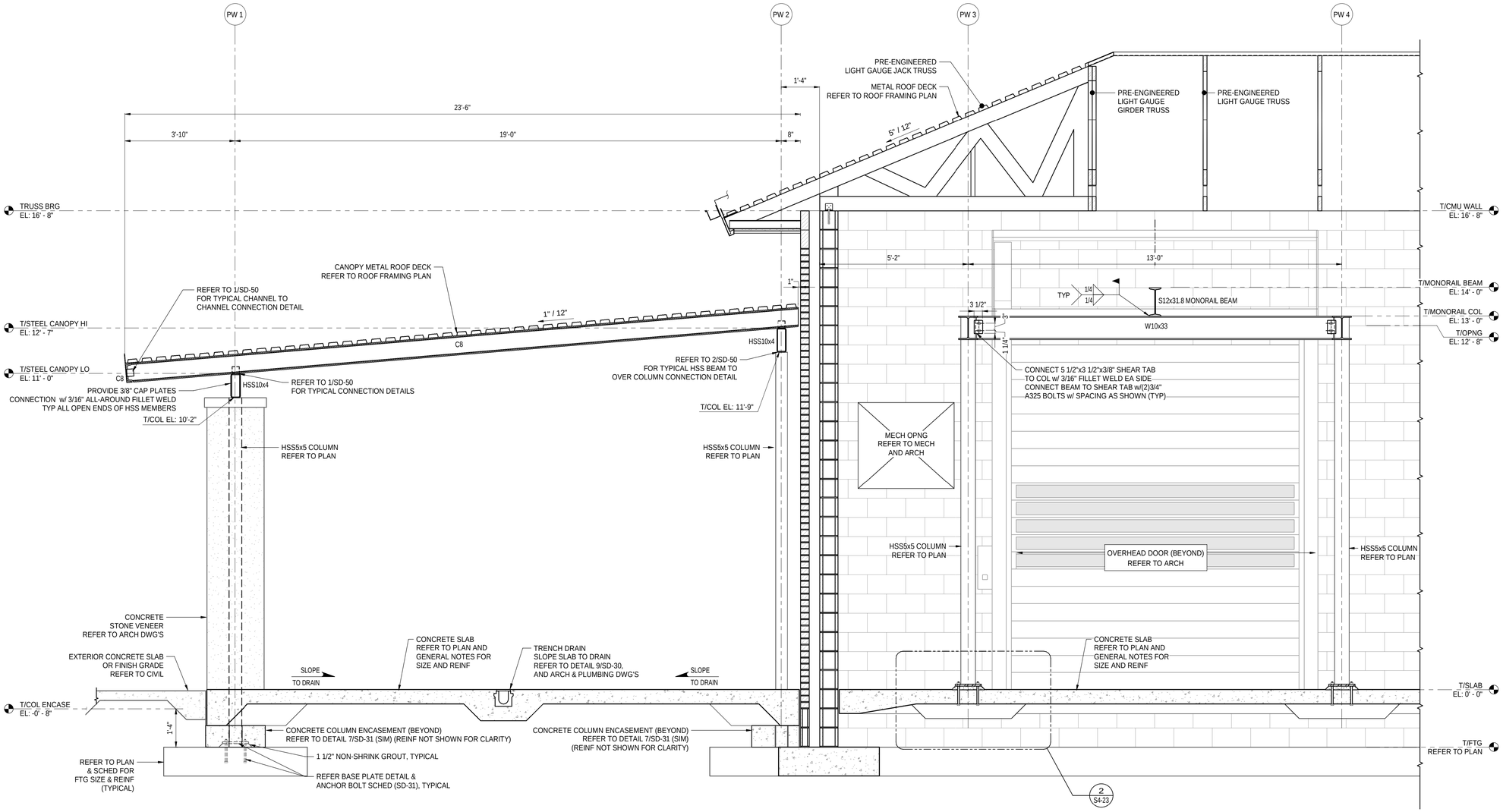
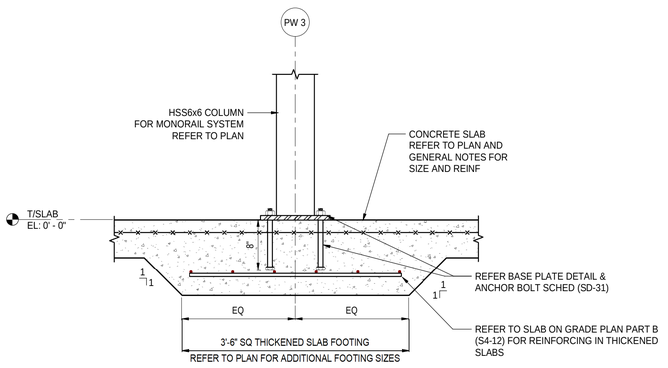


1 / S4-23 PW - SECTION AT CANOPY AND MONORAIL
1/2" = 1'-0"



2 / S4-23 PW - SECTION AT MONORAIL COLUMN FOOTING
1" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL CONCRETE AND SLAB ON GRADE NOTES.
2. TOP OF SLAB ELEVATION - REFER TO SLAB ON GRADE PLAN REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
3. TOP OF FOOTING ELEVATION - REFER TO FOUNDATION PLAN REFER TO GENERAL NOTES FOR NGVD REFERENCE ELEVATION FOR STRUCTURAL PLANS.
4. REFER TO SD-30 AND SD-31 FOR TYPICAL SLAB ON GRADE DETAILS.
5. REFER TO SD-40 AND SD-41 FOR TYPICAL CONCRETE MASONRY DETAILS.
6. REFER TO SD-50, SD-51, AND SD-52 FOR TYPICAL STEEL FRAMING DETAILS.
7. REFER TO SD-52 FOR LIGHT GAUGE NOTES AND TYPICAL DETAILS.

LEGEND

HSS5x5	INDICATES HSS5x5x3/8 STEEL COLUMN
HSS10x4	INDICATES HSS10x4x3/8 STEEL FRAMING
HSS8x6	INDICATES HSS8x6x3/8 STEEL FRAMING
C8	INDICATES C8x11.5 STEEL CHANNEL FRAMING

MONORAIL:

1. DESIGN CAPACITY: 1 TON
2. IMPACT LOADS
   A. VERTICAL: 10%
   B. LATERAL: 20%
   C. LONGITUDINAL: 10%
3. DEFLECTION LIMIT: L/1000

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SHEET TITLE:
PUBLIC WORKS BUILDING SECTIONS

SHEET NUMBER:
S4-23

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:47 AM

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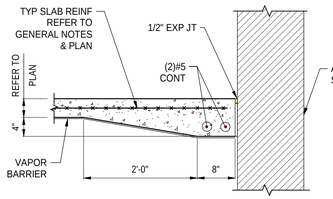
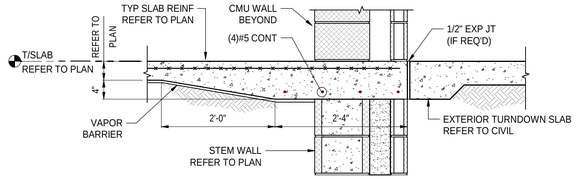
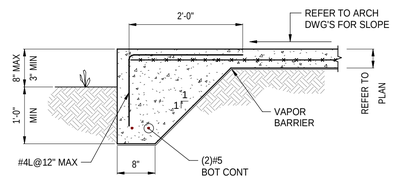


INTERIOR SLAB AT ADJACENT SURFACE

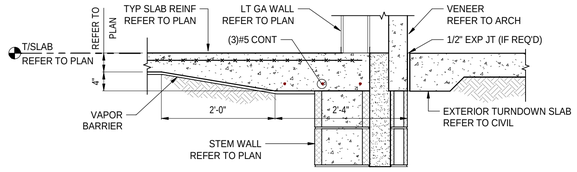


NOTE: FOUNDATION NOT SHOWN

SLAB AT EXTERIOR OPENING



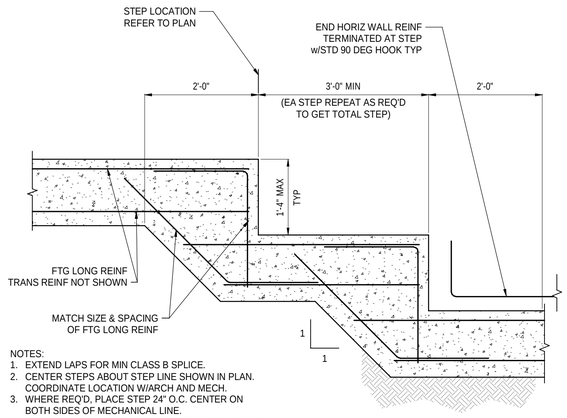
EXTERIOR SLAB



SLAB AT LIGHT GAUGE WALL

1 SD-30 TURNDOWN AT SLAB EDGE (WWF)

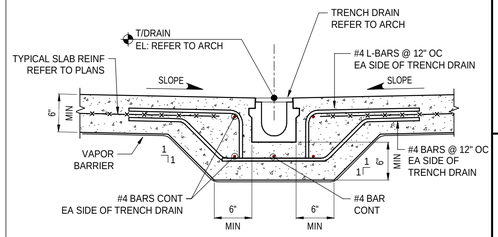
3/4" = 1'-0"



NOTES:
1. EXTEND LAPS FOR MIN CLASS B SPLICE.
2. CENTER STEPS ABOUT STEP LINE SHOWN IN PLAN. COORDINATE LOCATION W/ARCH AND MECH.
3. WHERE REQ'D, PLACE STEP 24" O.C. CENTER ON BOTH SIDES OF MECHANICAL LINE.
4. MAINTAIN COVER AS INDICATED IN GENERAL NOTES.

2 SD-30 TYPICAL FOOTING STEPS

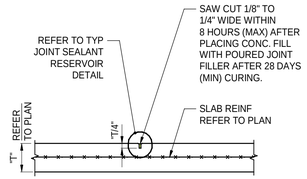
3/4" = 1'-0"



3 SD-30 TRENCH DRAIN IN FLOOR SLAB DETAIL

1" = 1'-0"

NOTES:
1. PLACE CONTROL JOINTS AT CHANGES IN SLAB WIDTH, AT COLUMN BLOCKOUTS, COLUMN CENTERLINES, AND AT REGULARLY SPACED INTERVALS.
2. MAXIMUM SPACING OF JOINTS SHALL NOT EXCEED 8'-0" FOR 4" SLABS, 12'-0" FOR 6" SLABS, AND 16'-0" FOR 8" SLABS, IN EITHER DIRECTION.
3. DO NOT EXCEED A 2 TO 1 WIDTH TO LENGTH RATIO.
4. USE CONSTRUCTION JOINTS WHEN THERE IS A BREAK IN SLAB POURING OPERATIONS EXCEEDING 30 MINUTES.



CONTROL JOINT

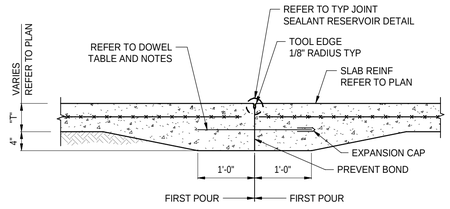
4 SD-30 TYPICAL SLAB ON GRADE CONTROL JOINT (CJ)

3/4" = 1'-0"

DOWEL TABLE			
"T" SLAB DEPTH (INCHES)	DIAMETER (INCHES)	TOTAL LENGTH (INCHES)	CENTER TO CENTER SPACING (IN)
5	5/8	12	12
6	3/4	14	12
7	7/8	14	12
8	1	14	12
9	1 1/8	16	12
10	1 1/4	18	12
11	1 3/8	18	12
12	1 1/2	20	12

DOWEL NOTES:

1. DOWELS SHALL BE PLAIN ROUND BARS EQUIVALENT TO ASTM A615 WITH A CORROSION RESISTANT COATING.
2. ONE-HALF (1/2) OF EACH BAR SHALL BE COVERED WITH ONE COAT TAR. PLACE EXPANSION CAP ON COATED SIDE.
3. DOWELS SHALL BE PLACED PARALLEL TO THE CENTERLINE AND SURFACE OF THE SLAB. TOLERANCE OF THE PLACEMENT SHALL BE ±1/4".



SLABS ≥ 5"

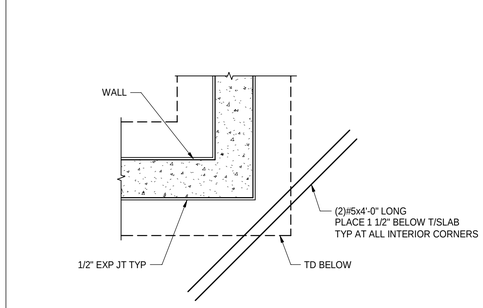
SLABS < 5"

5 SD-30 TYPICAL SLAB ON GRADE STEP OR RECESS

3/4" = 1'-0"

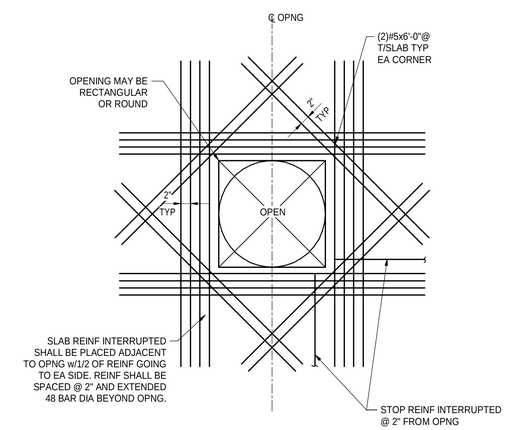
6 SD-30 TYPICAL SLAB ON GRADE CONSTRUCTION JOINT

3/4" = 1'-0"



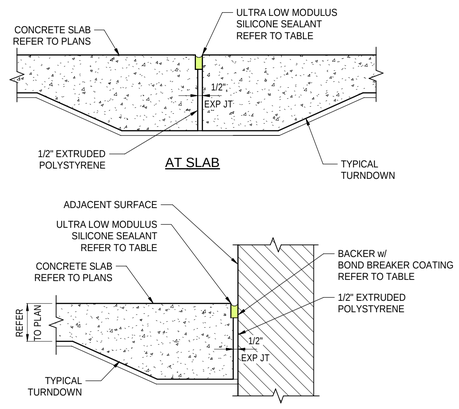
7 SD-30 ADDITIONAL SLAB REINF AT WALL CORNERS

3/4" = 1'-0"



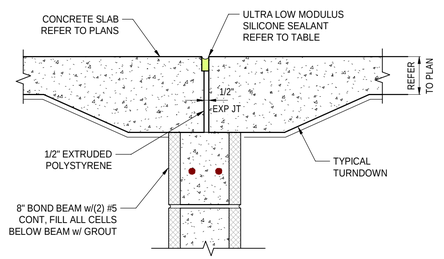
8 SD-30 ADDITIONAL REINF AT SLAB OPENING

3/4" = 1'-0"

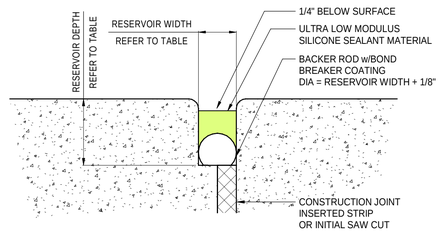


9 SD-30 TYPICAL SLAB 1/2" EXPANSION JOINT (EJ)

1 1/2" = 1'-0"



AT DOOR OPENING



JOINT SPACING	SEALANT RESERVOIR SHAPE	
	WIDTH	DEPTH
15'-0" OR LESS	5/8"	3/4"
20'-0"	5/8"	3/4"
30'-0"	5/8"	3/4"
40'-0"	5/8"	1"

NOTE:

SEALANT MATERIAL SHALL BE A FIELD MOLDED SEALANT OF ONE OF THE FOLLOWING TYPES:

1. HOT APPLIED THERMOPLASTIC ASPHALT - RUBBER COMPOUNDS MEETING ASTM 1190.
2. HOT POURED ELASTOMERIC TYPE SEALANTS - MEETING ASTM D3406.
3. COLD APPLIED, MASTIC SINGLE OR MULTIPLE - COMPONENT SEALANTS MEETING ASTM D1850.

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MOTT MACDONALD

Architects AA - C000295
Engineers EB - 0000295
Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

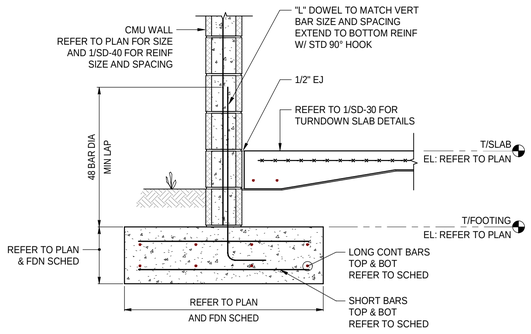
DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

SHEET TITLE:
TYPICAL DETAILS CONCRETE

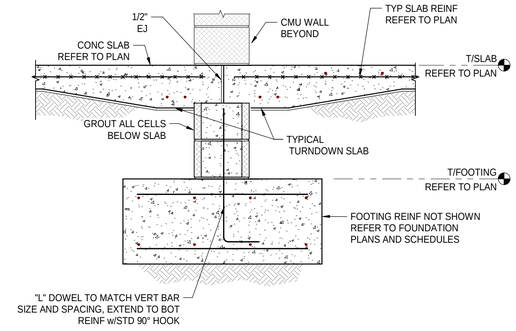
SHEET NUMBER:
SD-30

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:48 AM

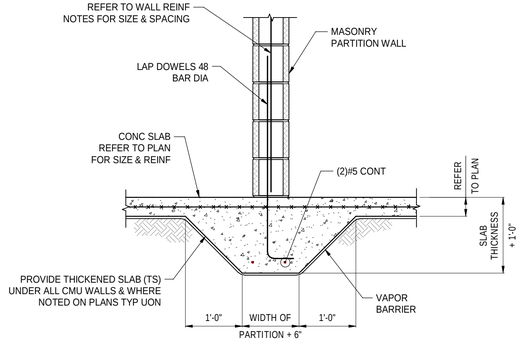
ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION



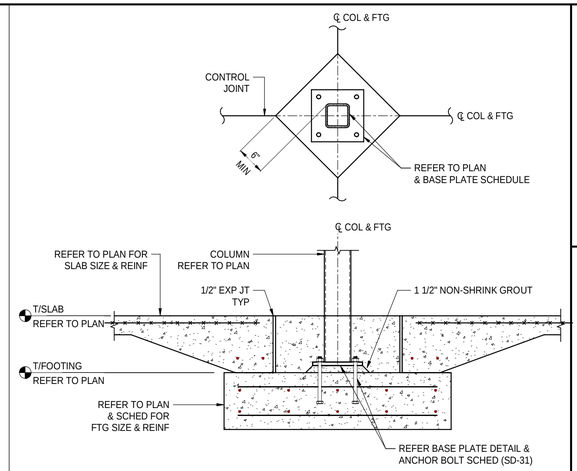
1 SD-31 TYPICAL EXTERIOR WALL FOUNDATION
3/4" = 1'-0"



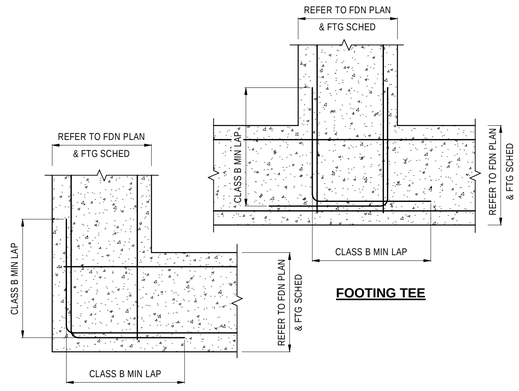
2 SD-31 TYPICAL SLAB AT INTERIOR DOOR
3/4" = 1'-0"



3 SD-31 TYPICAL THICKENED SLAB (TS) UNDER PARTITION WALL
3/4" = 1'-0"



4 SD-31 TYPICAL INTERIOR COLUMN FOOTING & BLOCK OUT
3/4" = 1'-0"



FOOTING TEE

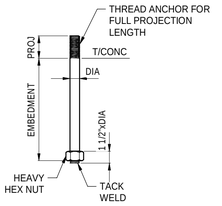
FOOTING CORNER

5 SD-31 REINFORCING AT FOOTING TEES AND CORNERS
3/4" = 1'-0"

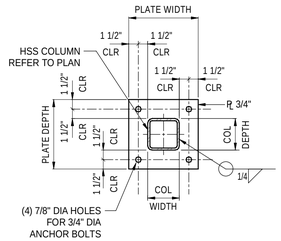
NOTES:

1. REFER TO PLANS FOR COLUMN SIZE AND TYPE.

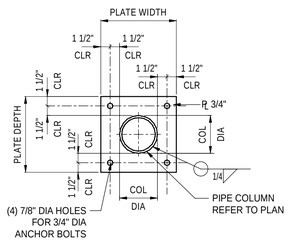
ANCHOR BOLT SCHEDULE				
DIAMETER	PROJECTION	EMBEDMENT	GRADE	COMMENTS
3/4"	5"	8"	F1554 (36) Fy=36 ksi	



TYPICAL ANCHOR BOLT DETAIL

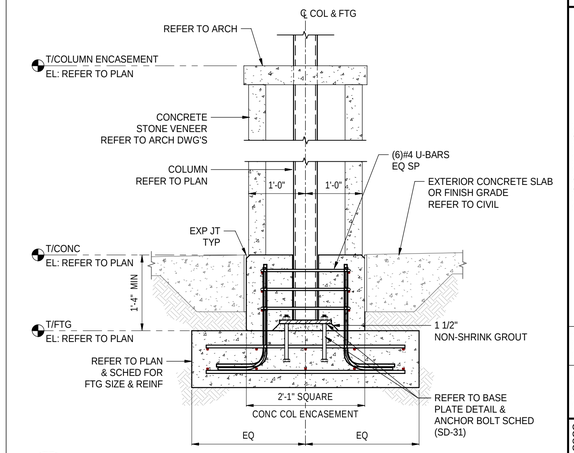


HSS COLUMN TYPE



ROUND PIPE COLUMN TYPE

6 SD-31 BASE PLATE DETAILS
1" = 1'-0"



7 SD-31 COLUMN ENCASEMENT DETAIL
3/4" = 1'-0"

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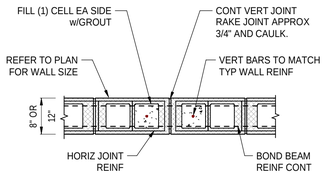
Matt MacDonald PROJECT NO: 502100062-005

This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C. Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

SHEET TITLE:
TYPICAL DETAILS CONCRETE

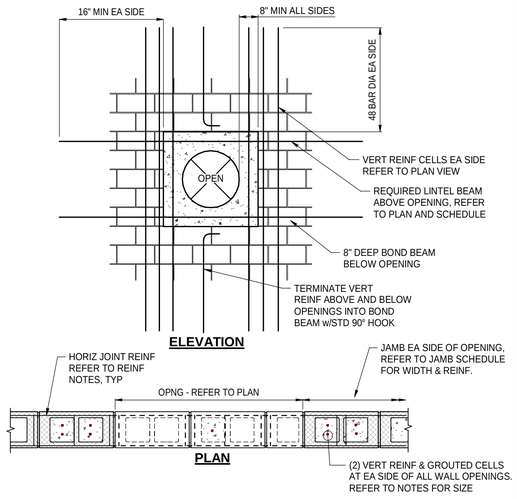
SHEET NUMBER:
SD-31

1. REFER TO THE GENERAL NOTES SHEET FOR ADDITIONAL NOTES.
2. DOWEL ALL CMU REINF IN FOOTINGS & EXTEND INTO UPPERMOST BOND BEAM WITH 90° HOOKS.
3. CELLS AROUND REINFORCING ARE TO FILLED WITH 3,000 PSI PEA GRAVEL CONCRETE.
4. PROVIDE FOUR (4) FILLED CELLS OF TYPICAL WALL REINFORCING AT INTERSECTIONS, (3) FILLED CELLS OF TYPICAL WALL REINFORCING AT CORNERS, AND TWO (2) FILLED CELLS OF TYPICAL WALL REINFORCING AT EACH SIDE OF OPENINGS AND ENDS OF WALLS. PROVIDE (5) FILLED CELLS OF TYPICAL WALL REINFORCING AT CORNERS OF STAIR WELL AND ELEVATOR WALLS.
5. ALL CONCRETE MASONRY UNITS SHALL BE PLACED IN RUNNING BOND.
6. TYPICAL 8" CMU WALL REINFORCING:
   A. REFER TO WALL PLAN FOR TYPICAL VERTICAL REINFORCING.
   B. PROVIDE 16" CMU BOND BEAM WITH (4)#5 CONTINUOUS AT TOP AND BOTTOM OF ALL WALLS AND AT ALL SLAB AND ROOF LEVELS.
   C. PLACE THE REINFORCING IN THE CENTER OF THE WALL UNLESS OTHERWISE NOTED.
7. TYPICAL 12" CMU WALL REINFORCING:
   A. REFER TO WALL PLAN FOR TYPICAL VERTICAL REINFORCING.
   B. PROVIDE 16" CMU BOND BEAM WITH (4)#5 CONTINUOUS AT TOP AND BOTTOM OF ALL WALLS AND AT ALL SLAB AND ROOF LEVELS.
   C. PLACE THE REINFORCING IN THE CENTER OF THE WALL UNLESS OTHERWISE NOTED.
8. HORIZ JOINT REINF IN ALL BLOCK WALLS SHALL BE STANDARD (9 GA. SIDE AND CROSS RODS) LADDER TYPE WALL REINFORCING AT 16". ALL WALLS PERPENDICULAR TO EXTERIOR WALLS SHALL HAVE ADDITIONAL PREFABRICATED "T" OR "L" JOINT REINFORCING AS INDICATE IN TYPICAL CMU DETAILS.
9. GROUT STOP SHALL BE A FIBERGLASS MESH CONFORMING TO ASTM STANDARD D1668-73, TYPE 207.
10. SPLICE ALL BARS 48 BAR DIAMETER UNLESS OTHERWISE NOTED.
11. USE (1) TOP & BOT CORNER BAR (MATCH TYP REINFORCING) WITH 48 BAR DIAMETER LONG LEGS EACH WAY IN ALL BOND BEAM CORNERS AND INTERSECTIONS. PLACE AT EXTERIOR FACE UNLESS OTHERWISE NOTED.
12. THE LOWEST VERTICAL BAR IN ALL BLOCK WALLS SHALL HOOK 90° INTO THE FOOTING OR SLAB WITH A MINIMUM 8" LEG UNLESS THE VERTICAL REINFORCING PASSES THRU THE SLAB TO A CONTINUOUS WALL BELOW.
13. THE HIGHEST VERTICAL BAR IN ALL BLOCK WALLS SHALL HOOK 90° INTO THE UPPERMOST BOND BEAM WITH A MINIMUM 8" LEG UNLESS THE VERTICAL REINFORCING PASSES THRU THE SLAB TO A CONTINUOUS WALL ABOVE. IF THE WALL IS CAPPED WITH A SLAB, EXTEND 90° HOOKS INTO THE SLAB AND LAP WITH THE VERTICAL WALL REINFORCING.
14. GROUT FILL ALL CELLS BELOW GRADE.
15. BRACE THE TOP OF ALL INTERIOR CMU WALLS PER 9/SD-40.

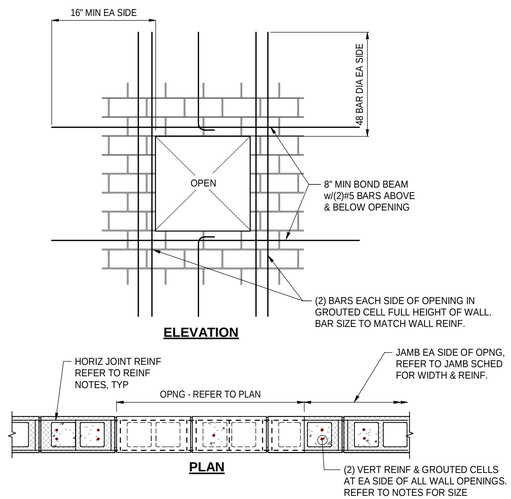


NOTES:
1. CMU CONTROL JOINTS ARE NOT TO EXCEED 25'-0", TYPICAL UNLESS OTHERWISE NOTED.
2. THE JOINTS SHALL BE LOCATED A MINIMUM OF 24" FROM DOOR OR WINDOW OPENINGS TO MISS LINTELS.
3. THE TYPICAL HORIZONTAL JOINT REINFORCING SHALL BE TERMINATED 2" FROM EACH SIDE OF JOINT. ALL BOND BEAM REINFORCING SHALL CONTINUE THRU THE JOINT.
4. WALL SEGMENTS THAT EXCEED 25' AND DO NOT CONTAIN CONTROL JOINTS MUST BE REINFORCED WITH TYPICAL HORIZONTAL BOND BEAMS SPACED AT 5'-0" MAXIMUM VERTICAL.

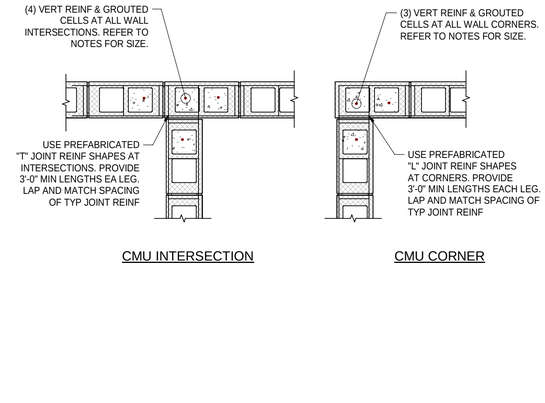
5 SD-40 TYPICAL CMU CONTROL JOINT DETAIL
3/4" = 1'-0"



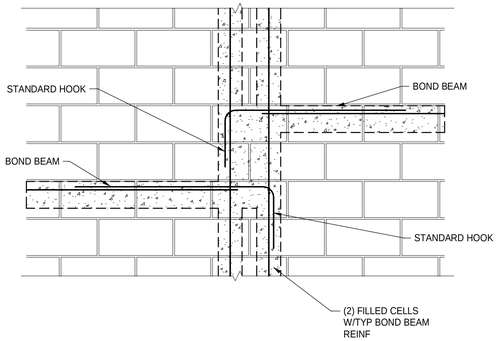
2 SD-40 CIRCULAR OPENING IN MASONRY WALL
3/4" = 1'-0"



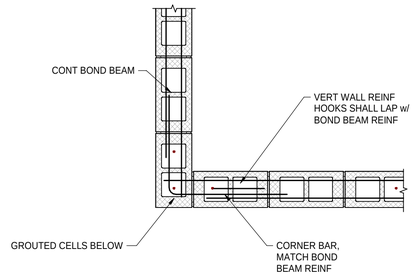
3 SD-40 SQUARE OPENING IN MASONRY WALL
3/4" = 1'-0"



4 SD-40 TYPICAL CMU DETAILS
3/4" = 1'-0"



6 SD-40 CHANGES IN BOND BEAM ELEVATION
3/4" = 1'-0"



NOTES
1. ALL LAPS SHALL BE 48 BAR DIA MINIMUM.
2. SIMILAR FOR BOND BEAMS WITH (1) HORIZ BAR

7 SD-40 BOND BEAM CORNER REINFORCING DETAIL
3/4" = 1'-0"

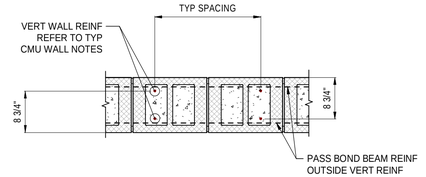
8" EXTERIOR CMU JAMB SCHEDULE	
OPENING SIZE "W"	JAMB WIDTH & REINF
3'-4"	16" w/(1) BAR EA CELL
≤ 7'-0"	16" w/(1) BAR EA CELL
≤ 11'-4"	24" w/(1) BAR EA CELL

12" EXTERIOR CMU JAMB SCHEDULE	
OPENING SIZE "W"	JAMB WIDTH & REINF
3'-4"	16" w/(1) BAR EA CELL
≤ 7'-0"	16" w/(2) BAR EA CELL
≤ 11'-4"	24" w/(2) BAR EA CELL

8" INTERIOR CMU JAMB SCHEDULE	
OPENING SIZE "W"	JAMB WIDTH & REINF
ALL OPENINGS	16" w/(1) BAR EA CELL

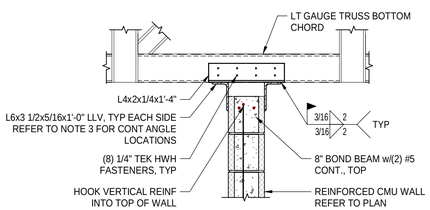
12" INTERIOR CMU JAMB SCHEDULE	
OPENING SIZE "W"	JAMB WIDTH & REINF
ALL OPENINGS	16" w/(1) BAR EA CELL

NOTE:
1. DOUBLE REINFORCED WALLS ARE INDICATED BY CALLING FOR (2) BARS AT TYPICAL SPACING. REFER TO DETAIL FOR REINFORCING PLACEMENT IN DOUBLE REINFORCED CELLS.
2. REFER TO CMU WALL NOTES FOR TYPICAL REINFORCING.

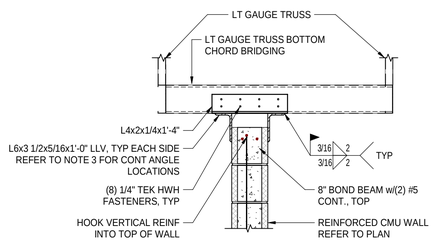


12" CMU DOUBLE REINFORING IN WALLS DETAIL

8 SD-40 JAMB SCHEDULE
3/4" = 1'-0"



PERPENDICULAR TO TRUSS



PARALLEL TO TRUSS

NOTES:
1. CLEAR DISTANCE BETWEEN TOP OF CMU WALL AND PERPENDICULAR ANGLE SHALL BE AS REQUIRED BY JOIST DEFLECTION, BUT NOT LESS THAN 3-INCH.
2. SPACE AT A MAXIMUM OF 8'-0" O.C. USING A MINIMUM OF TWO PER WALL IN ANY ONE DIRECTION.
3. L6x3 1/2x5/16xCONT LLV ANGLE TO BE PROVIDED IN LIEU OF 1'-0" ANGLE AT ROOMS WITH HIGH CEILINGS (ROOM NO. 405, 406, 425, 426, AND 430). REFER TO ARCH.

9 SD-40 TYPICAL PARTIAL HEIGHT CMU WALL BRACING
3/4" = 1'-0"

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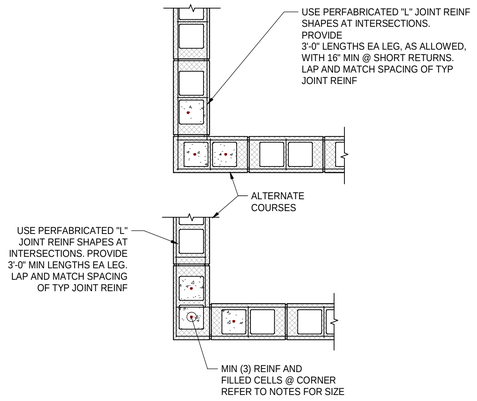
SHEET TITLE:
TYPICAL DETAILS CONCRETE MASONRY

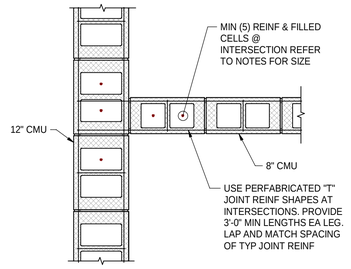
SHEET NUMBER:
SD-40

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION

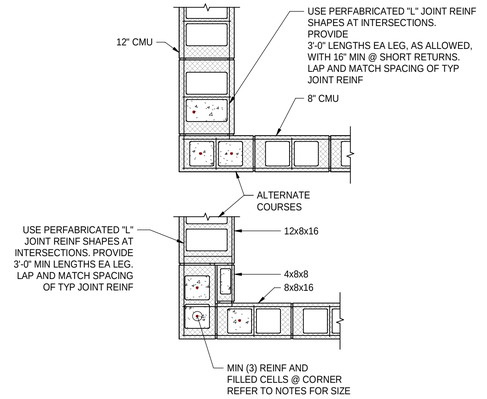
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:49 AM



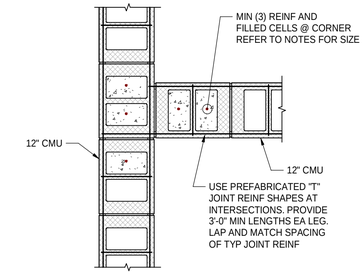
1 SD-41 8 INCH TO 8 INCH WALL CORNER
3/4" = 1'-0"



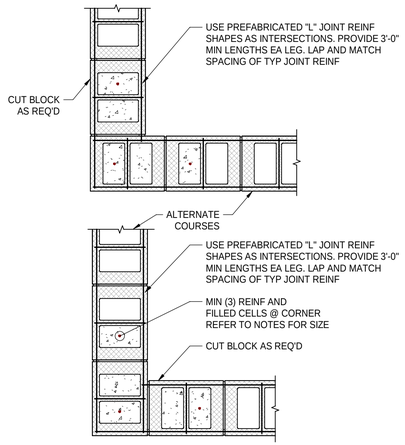
2 SD-41 8 INCH TO 12 INCH INTERSECTION
3/4" = 1'-0"



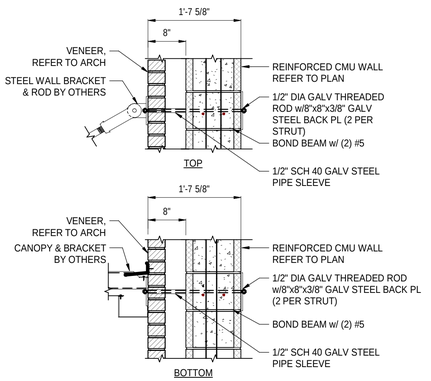
3 SD-41 8 INCH TO 12 INCH WALL CORNER
3/4" = 1'-0"



4 SD-41 12" INTERSECTION
3/4" = 1'-0"



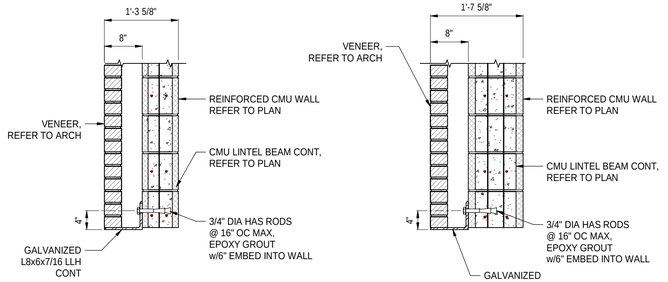
5 SD-41 12" WALL CORNER
3/4" = 1'-0"



NOTES:

1. CANOPY (BY OTHERS) NOT SHOWN FOR CLARITY.

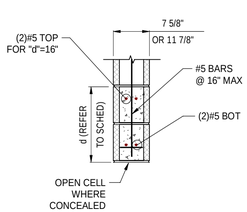
6 SD-41 PREFABRICATED CANOPY TO CMU WALL
3/4" = 1'-0"

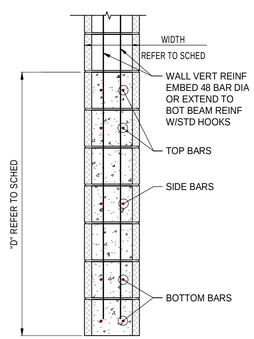


NOTES:

1. MAXIMUM SUPPORTED VENEER HEIGHT SHALL NOT EXCEED 15'-0".
2. VENEER SIZE IS LIMITED TO STD. BRICK OR 4" CMU.
3. VENEER LINTEL ANGLE SHALL HAVE 8" BEARING EA END, TYP, UON.

7 SD-41 TYPICAL VENEER LINTEL FOR CMU WALLS
3/4" = 1'-0"





CMU LINTEL

LINTEL BEAM SCHEDULE

BEAM TYPE	WIDTH	DEPTH	TOP BARS	BOTTOM BARS	SIDE BARS	SHEAR STIRRUPS & SPACING	NOTES
LB1	**	8"	---	(2)#5			
LB2	**	16"	(2)#5	(2)#5			
LB3	**	24"	(2)#5	(2)#5	(2)#5		
LB4	**	40"	(2)#5	(2)#5	(6)#5		

* - PLACE BARS IN 2 LAYERS WITH #8 SPACERS
** - BEAM WIDTH TO MATCH CMU WALL WIDTH

LINTEL NOTES:

1. PROVIDE 16" MINIMUM BEARING (EACH END) FOR CMU AND CONCRETE LINTELS.
2. TOP AND BOTTOM REINFORING IN CMU LINTEL BEAMS SHALL BE PLACED WITH (2) BARS IN EACH SUCCESSIVE COURSE TO MEET TOTAL REQUIRED BARS.
3. SHORE LINTELS UNTIL WALL ABOVE IS COMPLETED AND ALL CELLS ARE FILLED.
4. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIA MINIMUM BEYOND OPENING AND EACH END OR TERMINATE WITH STANDARD HOOK.
5. GROUT ALL CELLS SOLID IN CMU LINTELS.
6. BOTTOM BLOCK IN CMU LINTES SHALL BE SOLID FACE LINTEL BLOCK WHEN FINISH BLOCK IS EXPOSED.

8 SD-41 TYPICAL LINTEL DETAIL FOR CMU WALLS
3/4" = 1'-0"

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Engineers EB - 0000155
Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
TYPICAL DETAILS CONCRETE MASONRY

SHEET NUMBER:
SD-41

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:50 AM

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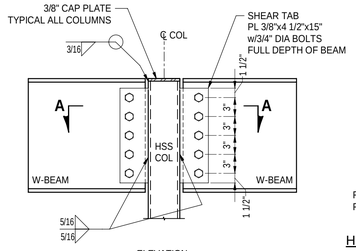
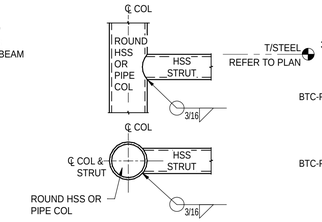
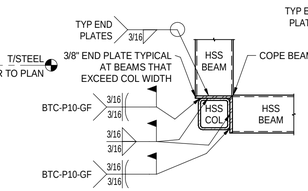


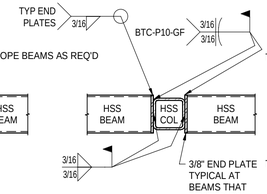
ELEVATION

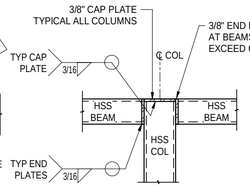


HSS STRUT TO HSS ROUND COLUMN

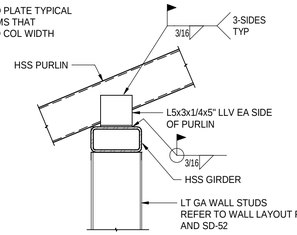


HSS BEAMS TO HSS COLUMN
(PLANS)

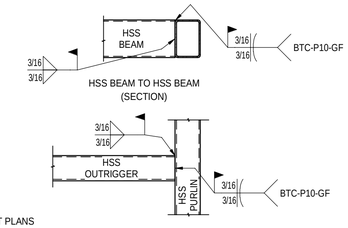




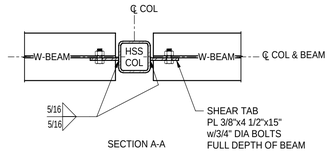
HSS BEAMS TO HSS COLUMN
(ELEVATION)



HSS PURLIN TO HSS BEAM AT EVE
(SECTION)

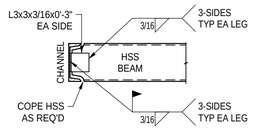


HSS OUTRIGGER TO HSS PURLIN
(PLAN)

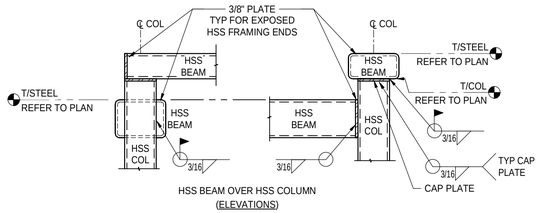


SECTION A-A

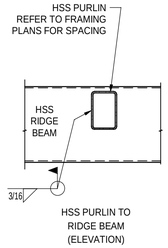
W- BEAM TO HSS COLUMN



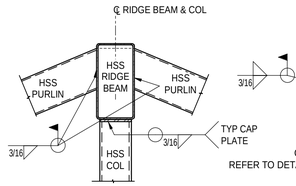
HSS BEAM TO CHANNEL
(ELEVATION VIEW)



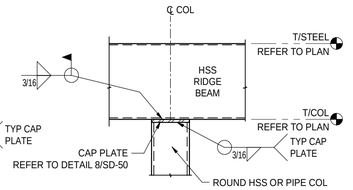
HSS BEAM OVER HSS COLUMN
(ELEVATIONS)



HSS PURLIN TO
RIDGE BEAM
(ELEVATION)

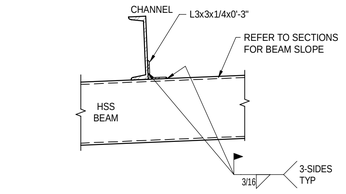


HSS PURLIN TO
RIDGE BEAM
(SECTION)

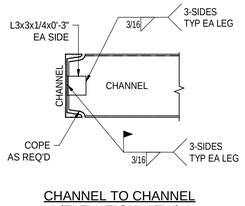


HSS RIDGE BEAM OVER
HSS ROUND COLUMN
(ELEVATION)

HSS BEAM TO HSS COLUMN AND BEAM TO BEAM



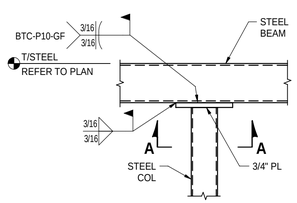
CHANNEL OVER HSS BEAM



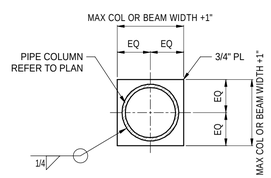
CHANNEL TO CHANNEL
(ELEVATION VIEW)

1 SD-50 TYPICAL STEEL FRAMING CONNECTIONS

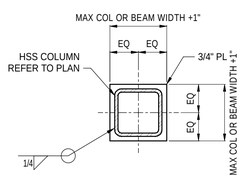
1" = 1'-0"



SECTION A-A



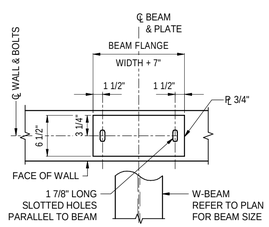
PIPE COLUMN



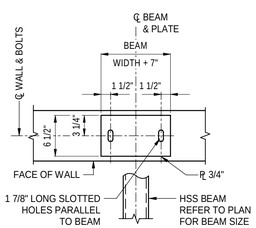
HSS COLUMN

2 SD-50 BEAM OVER COLUMN

3/4" = 1'-0"



W-BEAM BEARING PLATE DETAIL



HSS BEAM BEARING PLATE DETAIL

NOTES:

1. ALL ANCHORS SHALL BE 3/4" DIA, EMBED MIN 14" INTO WALL.

3 SD-50 TYPICAL STEEL BEAM TO CMU EMBED PLATE DETAIL

1" = 1'-0"

TYPICAL STEEL CONNECTION NOTES:

1. THE CONNECTION FOR ANY PORTION OF THE STRUCTURE NOT INDICATED ON THE DRAWINGS SHALL BE REDESIGNED BY THE FABRICATOR. STANDARD CONNECTIONS SHALL BE USED WHERE POSSIBLE.
2. ALL CONNECTIONS ARE TO BE EQUIVALENT TO AISC, FIFTEENTH EDITION, FRAMED BEAM CONNECTIONS, TABLE 10-1 WITH MIN 5/16" THICK ANGLES (1/2" AT ROOF AND EXTERIOR BEAMS) AND MAXIMUM NUMBER OF 3/4" DIA A325 BOLTS AT 3" OC UNLESS OTHERWISE NOTED. DESIGN CONNECTIONS FOR BEARING TYPE CONNECTION WITH THREADS IN SHEAR PLANE. USE 1/2" THICK CLIP ANGLES FOR BEAMS SUPPORTING JOISTS OR BEAMS CONNECTED TO ROOF DECK.
3. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS OR THE STEEL CONNECTIONS ARE NOT SPECIFICALLY DETAILED, NON-COMPOSITE FRAMED BEAM SHALL BE DESIGNED FOR ONE-HALF THE TOTAL LOAD SHOWN IN THE APPROPRIATE AISC "ALLOWABLE UNIFORM LOADS ON BEAM" TABLES FOR CORRESPONDING SPANS.
4. COPE BEAM FLANGES FOR BEAMS ADJACENT TO CMU WALLS AT ENDS TO PROVIDE ACCESS TO BOLTS.
5. REFER TO ROOF FRAMING AND PARTIAL ROOF FRAMING PLANS AND SECTIONS FOR TOP OF STEEL AND TOP OF COLUMN ELEVATIONS.

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Architects AA - C000035
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Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
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SPRINGFIELD, FLORIDA 32401

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SHEET TITLE:
TYPICAL DETAILS
STEEL FRAMING

SHEET NUMBER:
SD-50

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502100062-005
8/6/2024 7:56:52 AM

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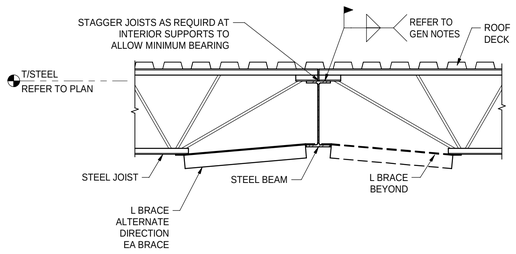
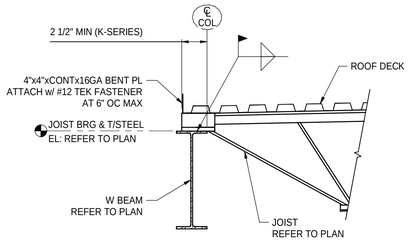


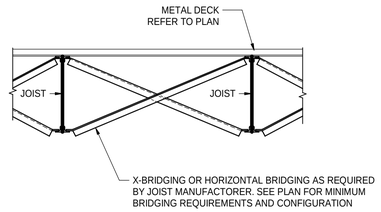
1 SD-51 JOIST TO BEAM CONNECTION (INTERIOR)

3/4" = 1'-0"



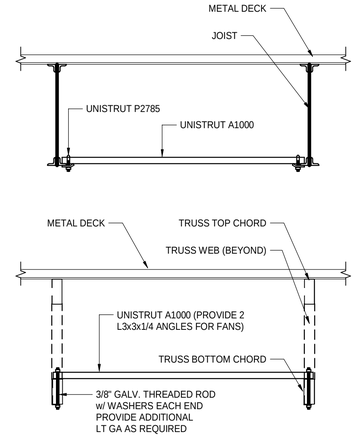
2 SD-51 JOIST TO BEAM CONNECTION

3/4" = 1'-0"



3 SD-51 TYPICAL INTERIOR JOIST BRIDGING

3/4" = 1'-0"

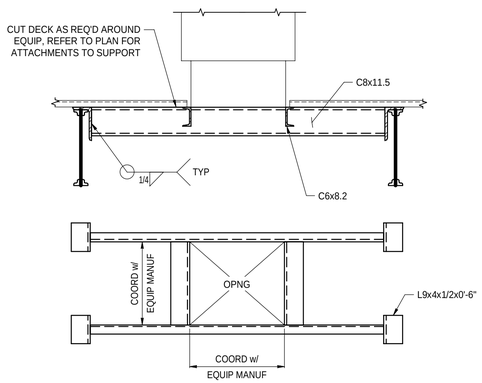


NOTES:

1. JOIST/TRUSS MANUFACTURER SHALL CONSIDER EFFECTS OF LOADING FROM EQUIPMENT AND BRACE/REINFORCE MEMBERS AS REQUIRED.
2. CUT, DRILL, OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES. DO NOT FLAME CUT HOLES OR ENLARGE HOLES BY BURNING.
3. SUPPORTS SHALL BE CONSTRUCTED AND COMPATIBLE WITH JOIST/TRUSS.
4. COORDINATE SUPPORTS WITH EQUIPMENT MANUFACTURER.

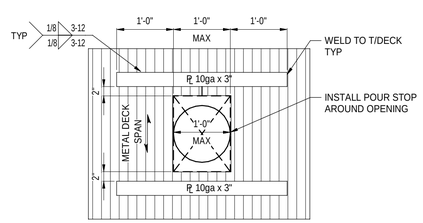
4 SD-51 EQUIPMENT SUPPORT

1" = 1'-0"



5 SD-51 ROOF MECHANICAL OPENING (JOIST)

3/4" = 1'-0"



PLAN

NOTES:

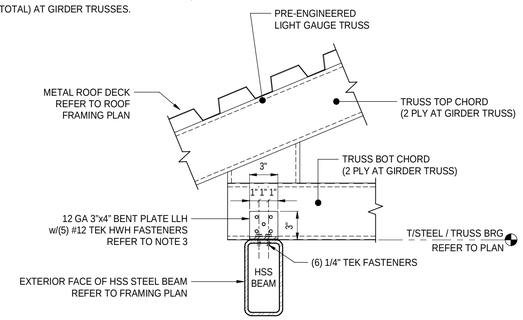
1. DO NOT CUT HOLE IN METAL DECK UNTIL AFTER CONCRETE SLAB HAS BEEN CAST AND CURED FOR 14 DAYS MIN.

6 SD-51 METAL DECK OPENING - SMALL HOLE

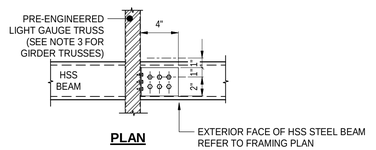
3/4" = 1'-0"

NOTES:

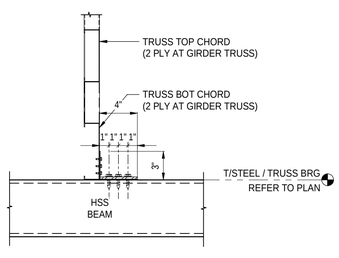
1. CONNECT LT GA TRUSSES TO HSS STEEL BEAM USING 12 GA 3"x7" BENT PLATE w/ 4" LEG HORIZONTAL INSTALL (5) #12 TEK HWH FASTENERS THRU VERT LEG INTO TRUSS AND (6) 1/4" TEK FASTENERS IN 4" LEG OF BENT PLATE TO HSS STEEL BEAM. PROVIDE 4"x3"x1/4" PLATE w/PREDRILLED HOLES OVER HORIZONTAL LEG.
2. BRICK VENEER NOT SHOWN FOR CLARITY. REFER TO ARCHITECTURAL.
3. GIRDER TRUSSES SHALL BE 2-PLY MEMBERS, TYP. PROVIDE STANDARD CONNECTION SHOWN FOR EACH PLY (2 TOTAL) AT GIRDER TRUSSES.



SECTION



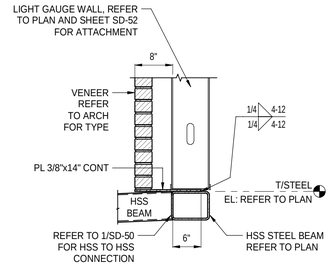
PLAN



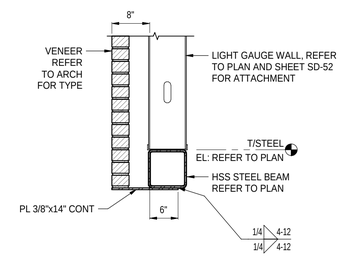
ELEVATION

7 SD-51 TRUSS TO HSS STEEL BEAM CONNECTION DETAIL

1 1/2" = 1'-0"



AT CANOPY CONNECTION



AT OPENING

NOTE: MAX SUPPORTED BRICK HEIGHT SHALL NOT EXCEED 15'-0".

8 SD-51 TYPICAL VENEER SUPPORT AT OPENING

3/4" = 1'-0"

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DESIGNED BY:	MJT
DRAWN BY:	KWD
CHECKED BY:	LJD
PROJECT ENGINEER:	M. TUGWELL
PROJECT MANAGER:	T. JARMAN
Mott MacDonald PROJECT NO:	502100062-005

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SHEET TITLE:
TYPICAL DETAILS
STEEL FRAMING

SHEET NUMBER:
SD-51

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:53 AM

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION

LIGHT GAUGE FRAMING:

1. ALL LIGHT GAUGE FRAMING SHALL BE GALVANIZED MINIMUM 33 KSI STEEL WITH THE FOLLOWING MINIMUM EFFECTIVE PROPERTIES OR APPROVED EQUIVALENT:

   A) TYPICAL 6" EXTERIOR STUD WALL:
   -STUD SPACING: 16" ON CENTER
   -STUD PROPERTIES: 6" 16ga, I_x=2.862 IN^4, S_x=0.392 IN^3
   -BOTTOM TRACK: 6" 16ga, 1 1/4" MIN LEG, I_x=2.206 IN^4, S_x=0.671 IN^3
   -TOP TRACK*: 6" 16ga, DIETRICH SLP - TRK OR EQUIVALENT

   B) TYPICAL 8" EXTERIOR STUD WALL:
   -STUD SPACING: 16" ON CENTER
   -STUD PROPERTIES: 8" 16ga, I_x=5.740 IN^4, S_x=1.435 IN^3
   -BOTTOM TRACK: 8" 16ga, 1 1/4" MIN LEG, I_x=4.517 IN^4, S_x=1.048 IN^3
   -TOP TRACK*: 8" 16ga, DIETRICH SLP - TRK OR EQUIVALENT

2. TRACK TO STRUCTURE ATTACHMENTS:
   - TRACK TO CONC OR CMU: (1) HILTI X-U NAILS AT 6" OC STAGGERED. FASTENERS SHOULD NOT BE LOCATED LESS THAN 1/2" FROM EDGE OF CONCRETE.
   - TRACK TO STEEL BEAM: (2) HILTI X-ENP FASTENERS @12" OC MAX
   - TRACK TO METAL FRAMING: (2)#12 SCREWS @12" OC MAX

3. FASTEN ALL STUDS TO TOP AND BOTTOM TRACK WITH A MINIMUM OF (2)#12 SCREWS ((1) EACH SIDE) TYPICAL UNLESS OTHERWISE NOTED. PLACE SCREWS TO TOP TRACK IN SLOTTED HOLES PROVIDED.

4. METAL STUDS SHALL HAVE A G90 GALVANIZE FINISH.

5. PLACE BLOCKING BEHIND ALL SHEATHING JOINTS.

6. ALL SCREWS SHALL BE BUILDEX TRAXX 5/16" HEX WASHER HEAD (HWH) OR EQUIVALENT, REFER TO PLANS AND DETAILS FOR FASTENER SIZE.

7. LIGHT GAGE MEMBER SIZES AND SHAPES SHOWN ARE A MINIMUM. THE DESIGN OF LIGHT GAGE FRAMING MEMBERS IS DELEGATED TO A SPECIALTY ENGINEER LICENSED IN THE STATE OF FLORIDA.

1 SD-52 TYPICAL LIGHT GAUGE METAL STUD NOTES

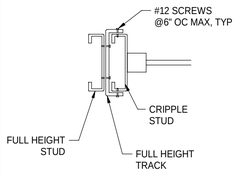
LIGHT GAUGE JAMB SCHEDULE

OPENING WIDTH	JAMB TYPE	TRACK	STUD	NOTES
OPENING ≤ 4'-0"	I	6" TRACK	6" STUD	
OPENING ≤ 8'-0"	II	6" TRACK	6" STUD	

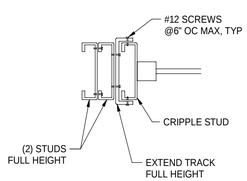
NOTES:

1. REFER TO LIGHT GAUGE FRAMING NOTES FOR STUD AND TRACK SIZES.

2. WINDOW AND DOOR ATTACHMENTS DESIGNED BY MANUFACTURER.

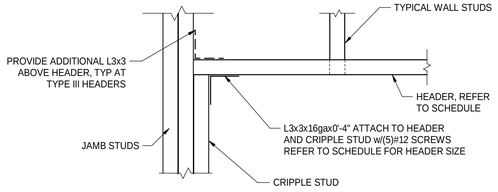


JAMB TYPE I

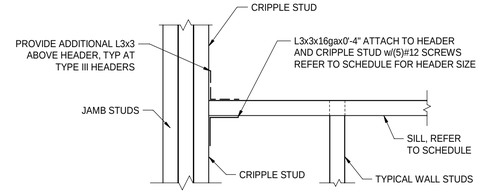


JAMB TYPE II

2 SD-52 LIGHT GUAGE JAMB SCHEDULE
3/4" = 1'-0"



CONNECTION AT HEADER



CONNECTION AT SILL

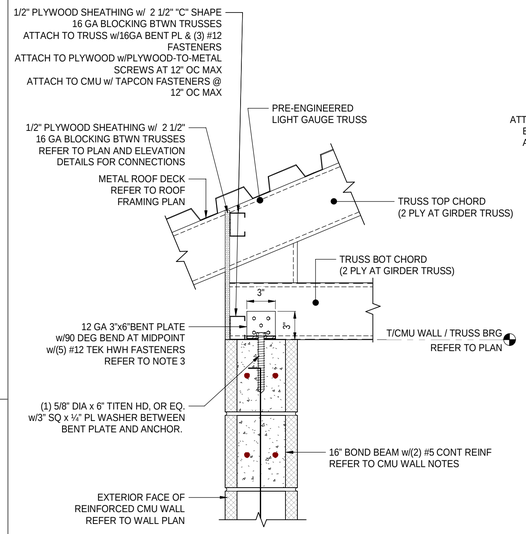
3 SD-52 HEADER AND SILL ATTACHMENT
1 1/2" = 1'-0"

NOTES:

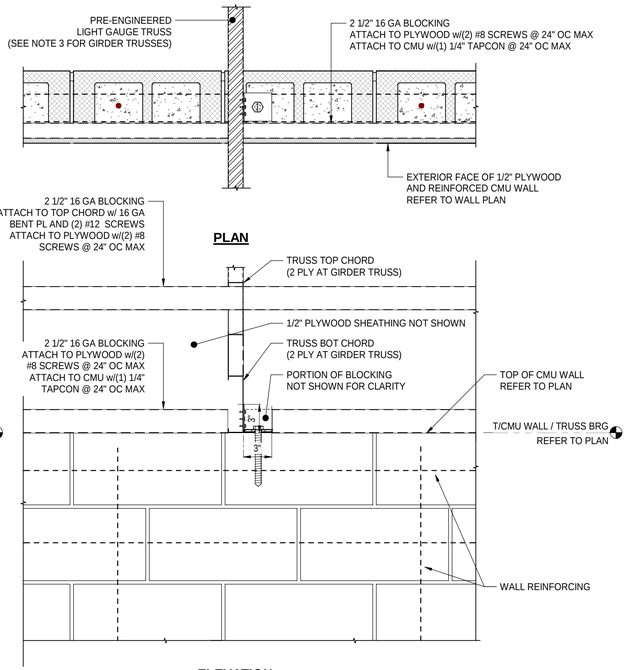
1. CONNECT LT GA TRUSSES TO CMU BOND BEAM USING 12 GA 3"x6" BENT PLATE w/90 DEG BEND AT MIDPOINT INSTALL (5) #12 TEK HWH FASTENERS THRU VERT LEG INTO TRUSS AND (1) 5/8" DIA X 6" TITEN HD, OR EQ w/3" SQ x ¼" PLATE WASHER BETWEEN BENT PLATE AND ANCHOR.

2. BRICK VENEER NOT SHOWN FOR CLARITY. REFER TO ARCHITECTURAL.

3. GIRDER TRUSSES SHALL BE 2-PLY MEMBERS, TYP. PROVIDE STANDARDCONNECTION SHOWN FOR EACH PLY (2 TOTAL) AT GIRDER TRUSSES.

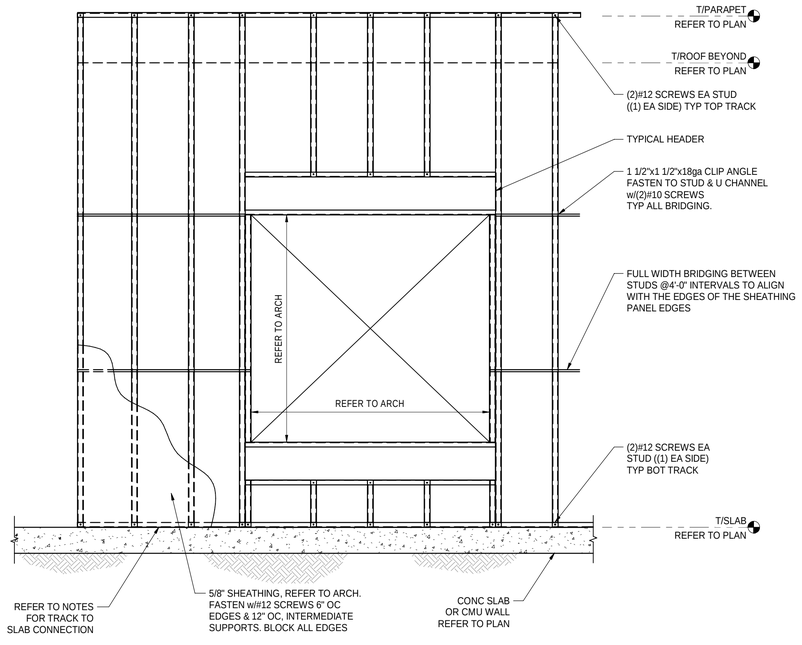


SECTION

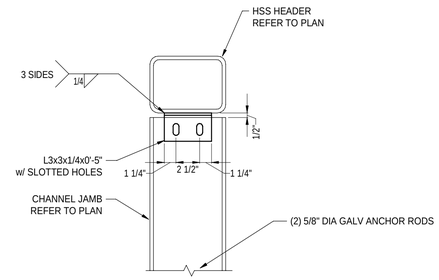


ELEVATION

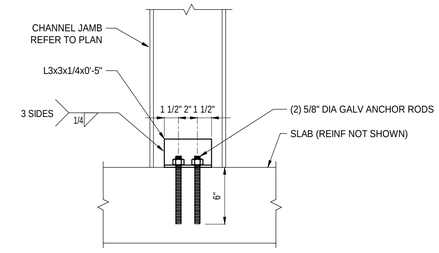
4 SD-52 TRUSS TO CMU WALL CONNECTION DETAIL
1 1/2" = 1'-0"



5 SD-52 TYPICAL EXTERIOR WALL FRAMING (1) STORY
3/4" = 1'-0"

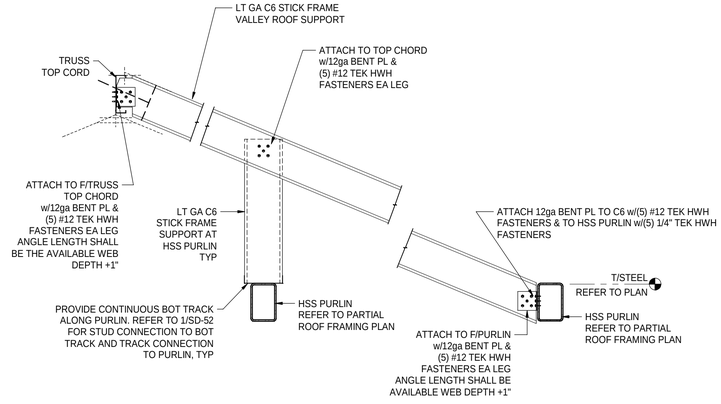


CONNECTION AT HEADER



CONNECTION AT SLAB

7 SD-52 CURTAIN WALL JAMB
1 1/2" = 1'-0"



6 SD-52 TYPICAL LIGHT GAUGE STICK FRAMING CONNECTIONS DETAIL
1" = 1'-0"

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Engineers EB - 0000195
Surveyors LB - 0000183

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV	DATE
Revision 1	1	Date 1

DATE: 10-3-2023
DESIGNED BY: MJT
DRAWN BY: KWD
CHECKED BY: LJD
PROJECT ENGINEER: M. TUGWELL
PROJECT MANAGER: T. JARMAN
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
TYPICAL DETAILS
STEEL FRAMING

SHEET NUMBER:
SD-52

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 7:56:54 AM

ISSUED FOR BIDS AUGUST 2024 - NOT FOR CONSTRUCTION

GENERAL NOTES

1. PENETRATIONS OF FIREWALLS, CEILINGS, FLOORS, ETC. OF PLUMBING PIPING SHALL BE UL APPROVED FIRESTOPS AND SHALL BE INSTALLED AS RECOMMENDED BY MANUFACTURER. THE CONTRACTOR SHALL HAVE MANUFACTURER SHOP DRAWINGS ON THE JOB SITE PERTAINING TO ALL PENETRATIONS.

2. THESE CONTRACT DRAWINGS SHOWN GENERAL SIZE AND APPROXIMATE LOCATION OF PLUMBING LINES AND ARE INTENDED TO SHOW THE GENERAL ARRANGEMENTS OF THE UTILITY CONNECTIONS FOR SIZE, LOCATION, DEPTH. INSTALL ALL SYSTEMS IN ACCORDANCE WITH THOSE CONDITIONS FOUND PRIOR TO BEGINNING INSTALLATION. ANY PART OF PLUMBING SYSTEM INSTALLED INCORRECTLY DUE TO NOT VERIFYING SAME SHALL BE REMOVED AND CORRECTLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

3. ALL DOMESTIC WATER PIPING SHALL BE LOCATED ABOVE CEILING UNLESS NOTED OTHERWISE.

4. THE PLUMBING PIPING SYSTEM SHALL BE FLUSHED TILL CLEAN BEFORE EQUIPMENT OR FIXTURE IS CONNECTED.

5. THE CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS OF BUILDING WITHOUT PRIOR CONSENT OF THE ARCHITECT.

6. COORDINATE PLUMBING PIPING WITH HVAC DUCTWORK, ROUTE PIPING TO ACCOMMODATE MECHANICAL SYSTEM.

7. THE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH FLORIDA PLUMBING CODE 2004 EDITION.

LEGEND:

———	SOIL OR WASTE PIPING
– – – –	VENT PIPING
——— - ——— - ———	COLD WATER PIPING
——— – – ——— – – ———	HOT WATER PIPING
——— D ———	DRAIN PIPING
——— T ———	TRAP PRIME PIPING
——— – – ——— – – ———	HOT WATER RETURN PIPING
EWH	ELECTRIC WATER HEATER
CO	CLEANOUT
FD	FLOOR DRAIN
WH	WALL HYDRANT
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
HB	HOSE BIBB
AHU	AIR HANDLING UNIT
TWH	TRUCK WALL HYDRANT
BAS	BREATHING AIR SYSTEM
CA	COMPRESSED AIR
RD	ROOF DRAIN
RL	RAIN LEADER
SD	STORM DRAIN

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SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: OCT. 03, 2023
DESIGNED BY: CAJ
DRAWN BY: CAJ
CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100062-005

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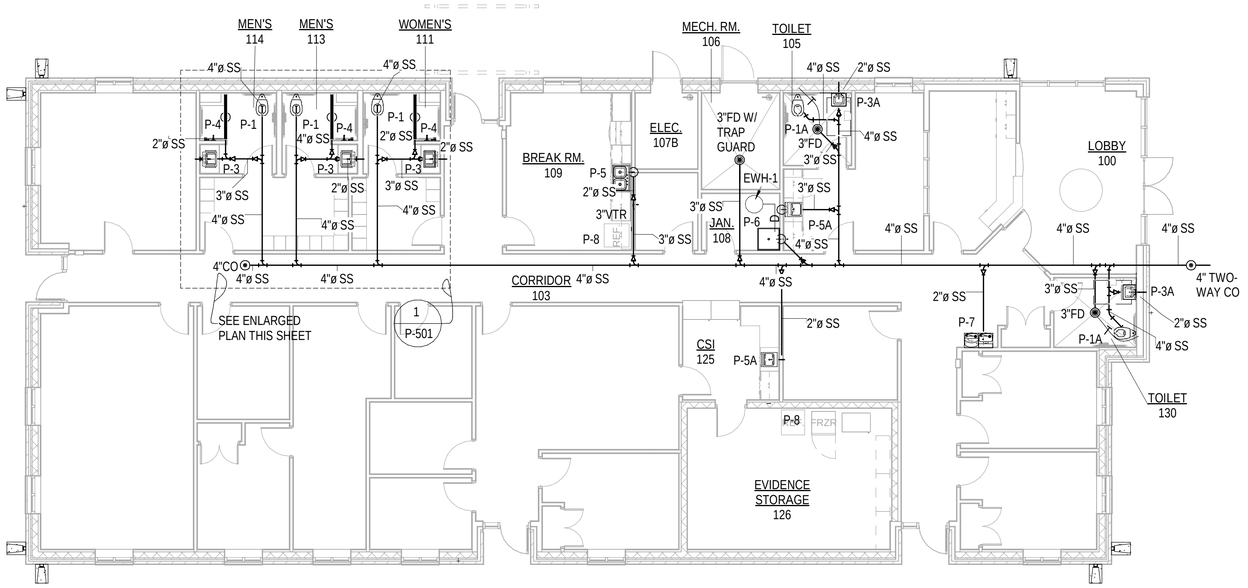
SHEET TITLE:

GENERAL NOTES & LEGEND

SHEET NUMBER:

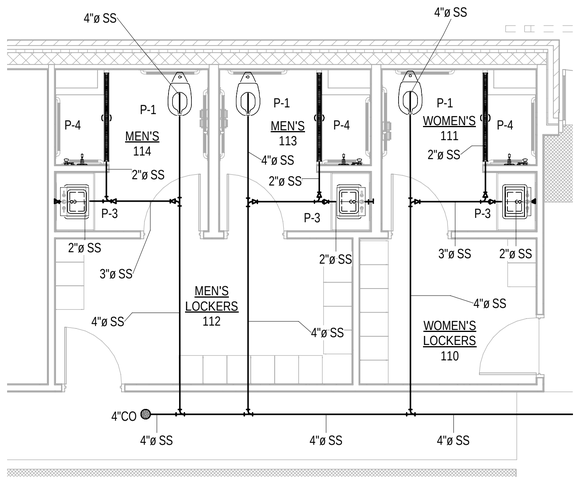
P-00



N

POLICE STATION - WASTE

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



1 P-501 | N

ENLARGED POLICE STATION - WASTE

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

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: OCT. 03, 2023
DESIGNED BY: CAJ
DRAWN BY: CAJ
CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100062-005

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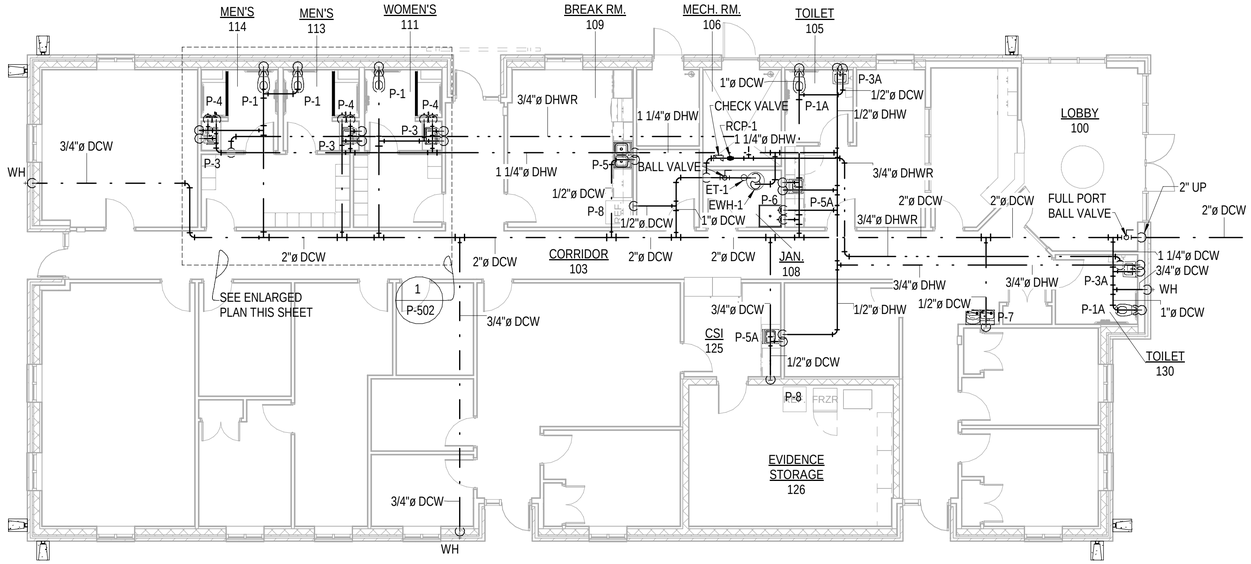
SHEET TITLE:

POLICE STATION - WASTE

SHEET NUMBER:

P-01

ISSUED FOR BIDS-AUGUST 2024



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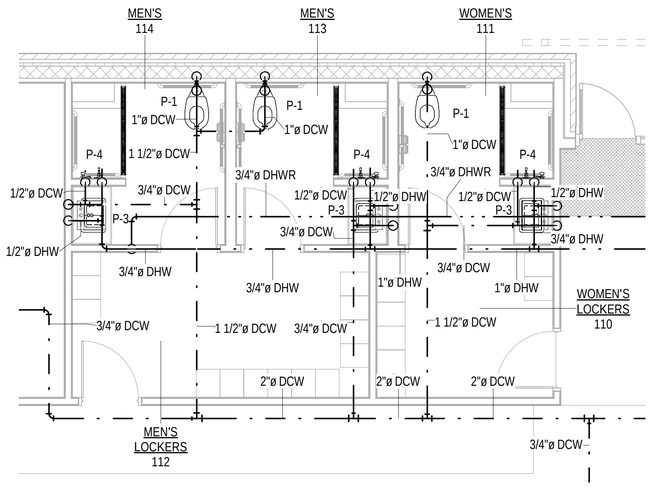
POLICE STATION - WATER

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



1 P-502 P-502 N

ENLARGED POLICE STATION - WATER

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

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PROJECT ARCHITECT:
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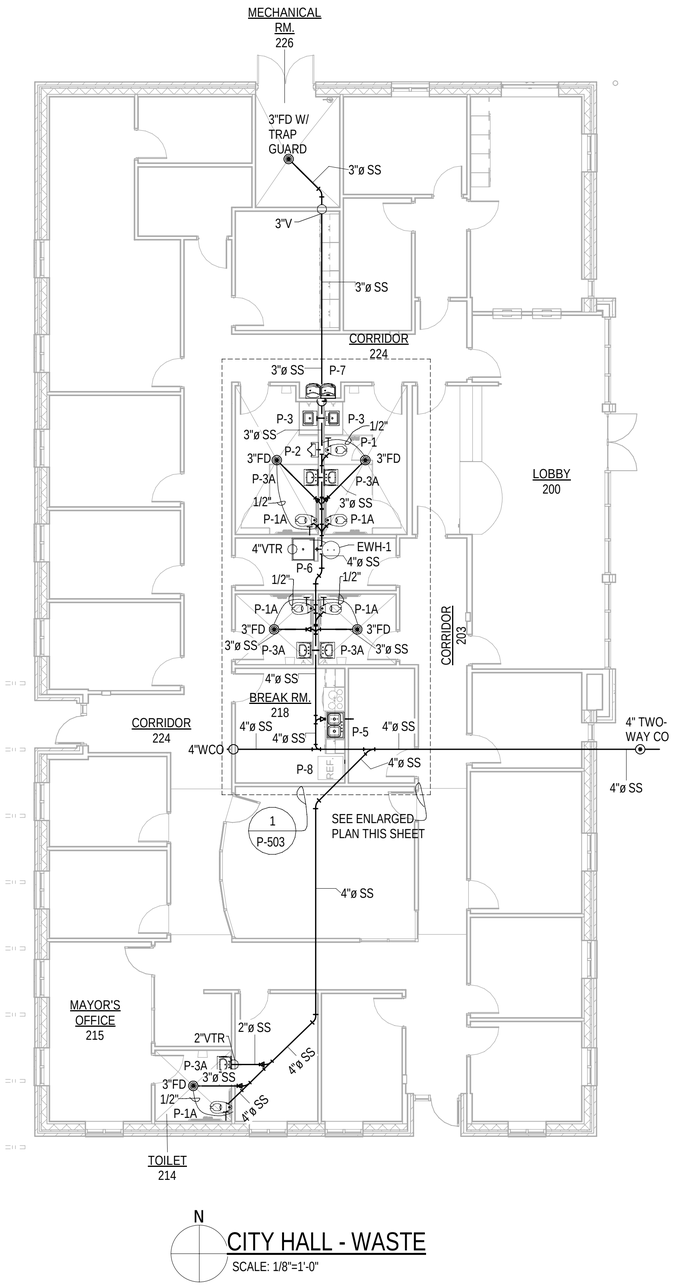
SHEET TITLE:

POLICE STATION - WATER

SHEET NUMBER:

P-02

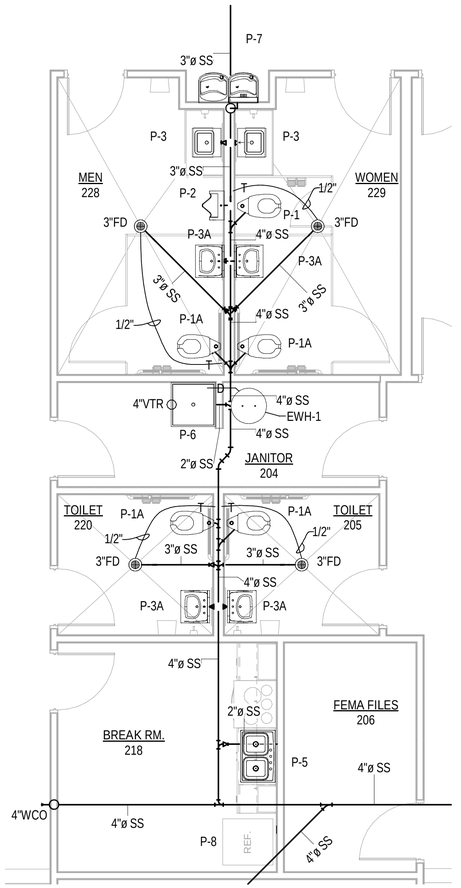
ISSUED FOR BIDS-AUGUST 2024



N

CITY HALL - WASTE

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



N

ENLARGED CITY HALL - WASTE

1 P-503 P-503

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

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SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

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CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100062-005

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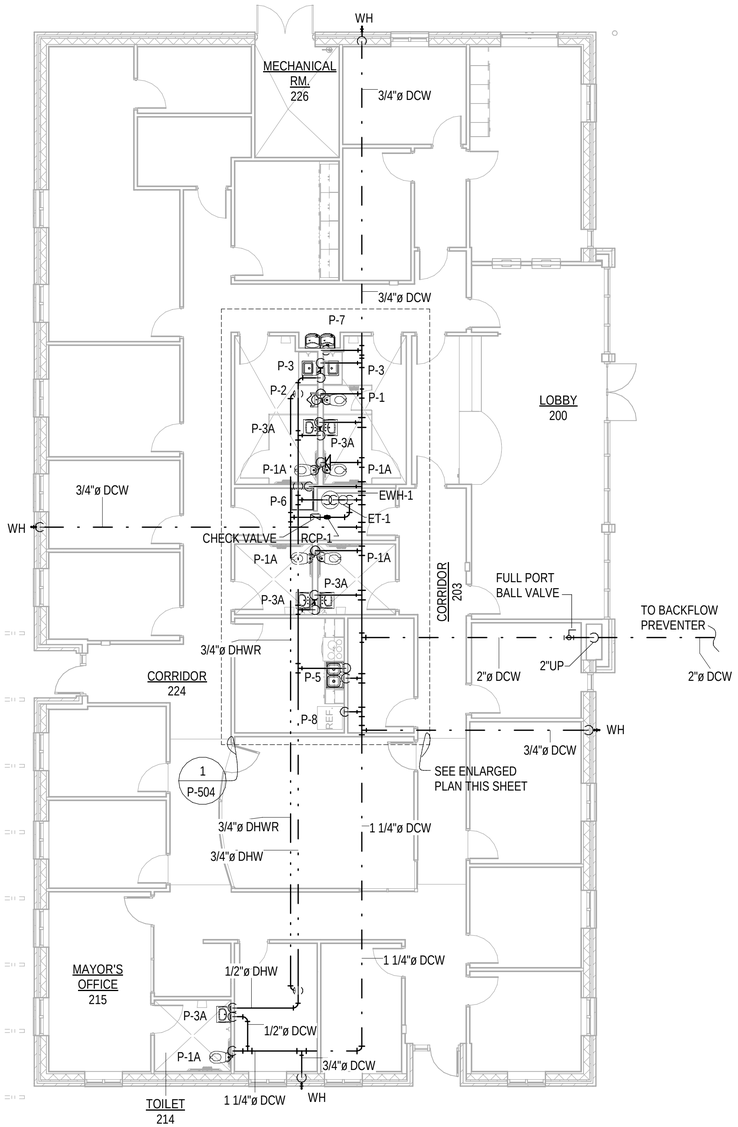
SHEET TITLE:

CITY HALL - WASTE

SHEET NUMBER:

P-03



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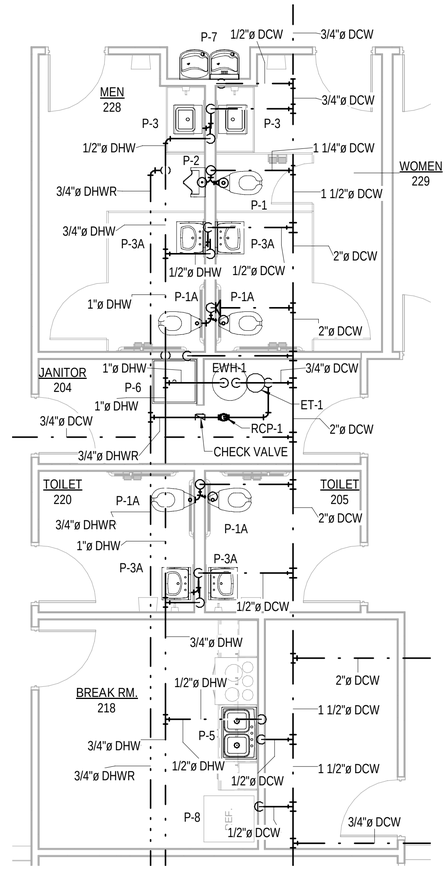
CITY HALL - WATER

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



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ENLARGED CITY HALL - WATER

1 P-504 P-504

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

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SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

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CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100062-005

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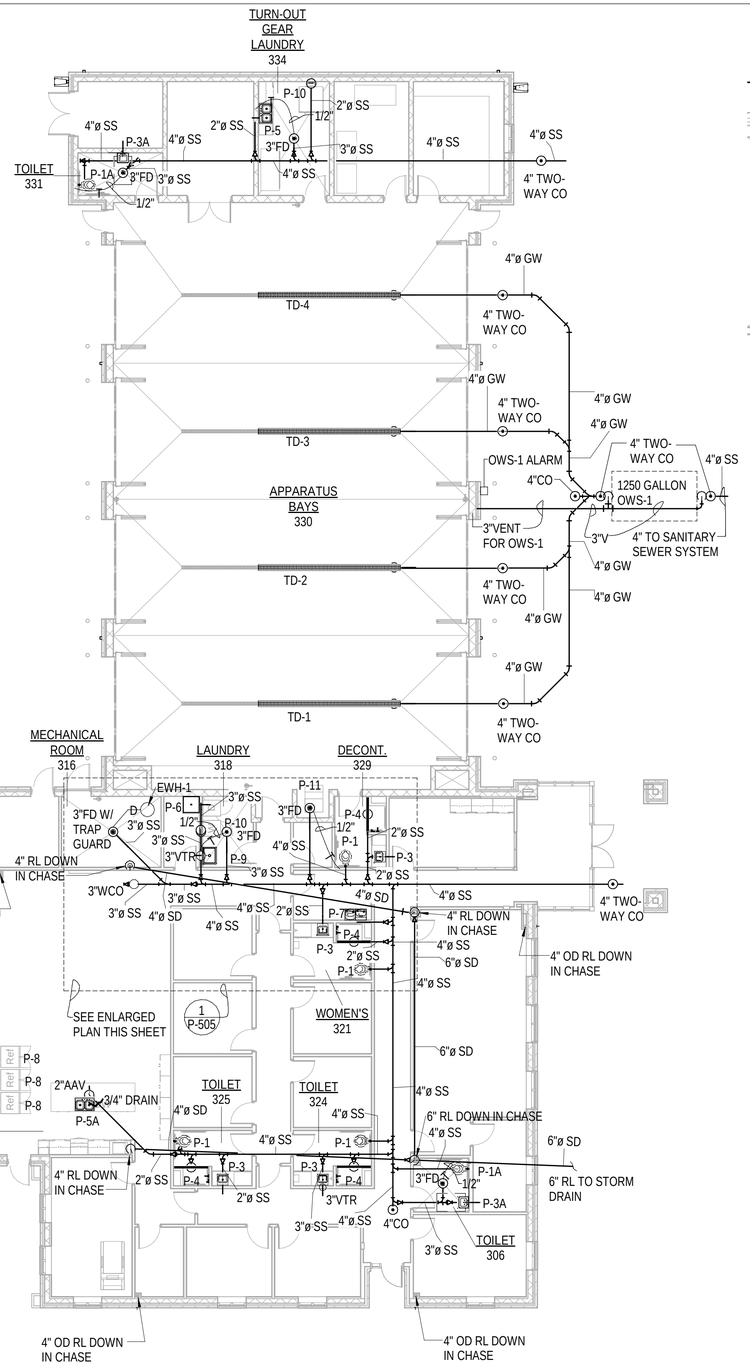
SHEET TITLE:

CITY HALL - WATER

SHEET NUMBER:

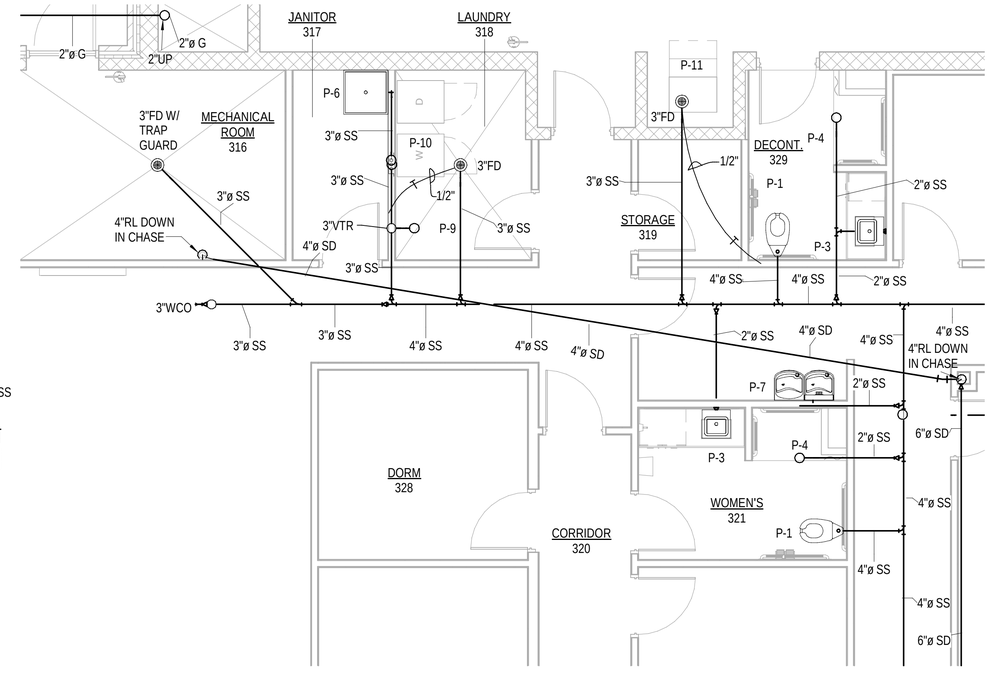
P-04

ISSUED FOR BIDS-AUGUST 2024



FIRE STATION - WASTE & STORM

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



1 P-505 P-505

ENLARGED FIRE STATION - WASTE & STORM

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

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: OCT. 03, 2023
DESIGNED BY: CAJ
DRAWN BY: CAJ
CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100062-005

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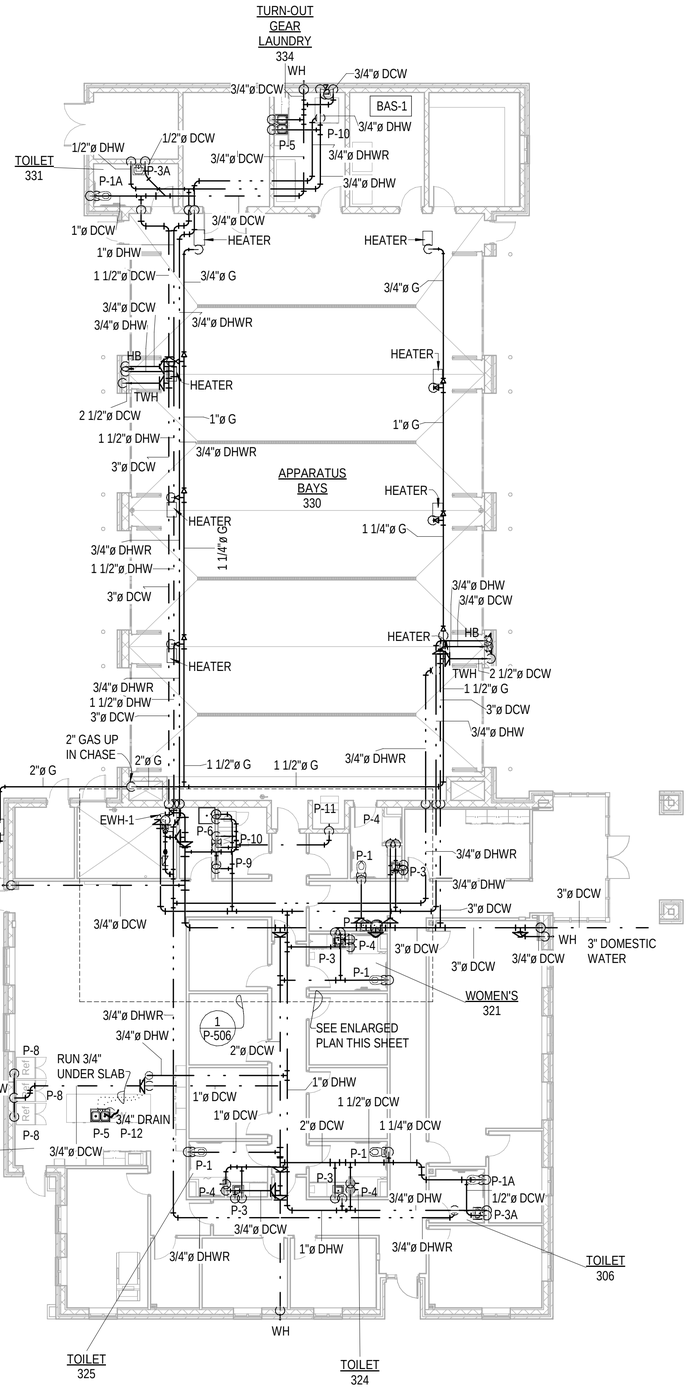
SHEET TITLE:

FIRE STATION - WASTE & STORM

SHEET NUMBER:

P-05



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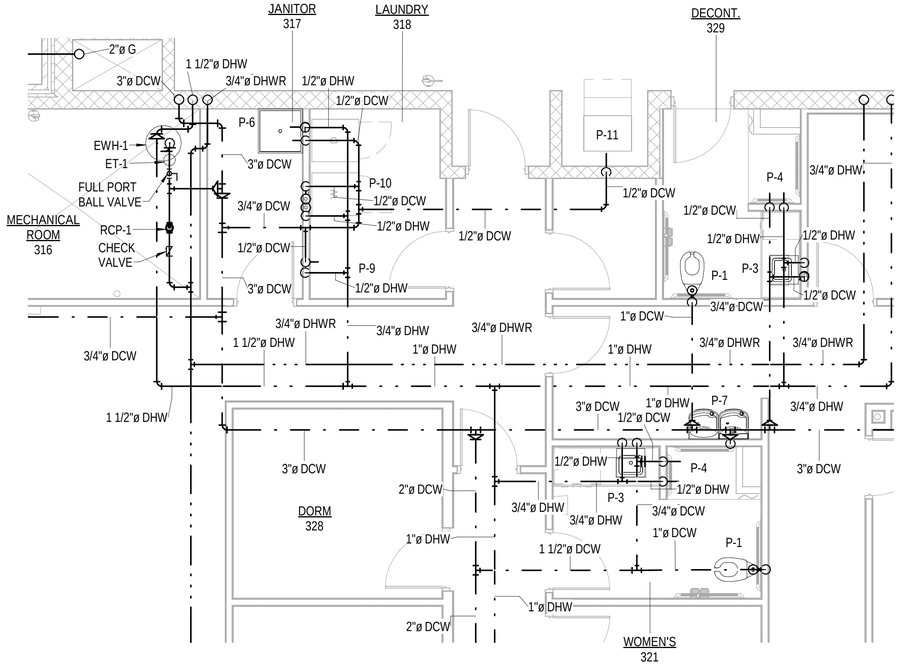
FIRE STATION - WATER

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



1 / P-506 | P-506

N

ENLARGED FIRE STATION - WATER

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

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SPRINGFIELD CITY COMPLEX

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1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: OCT. 03, 2023
DESIGNED BY: CAJ
DRAWN BY: CAJ
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PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100062-005

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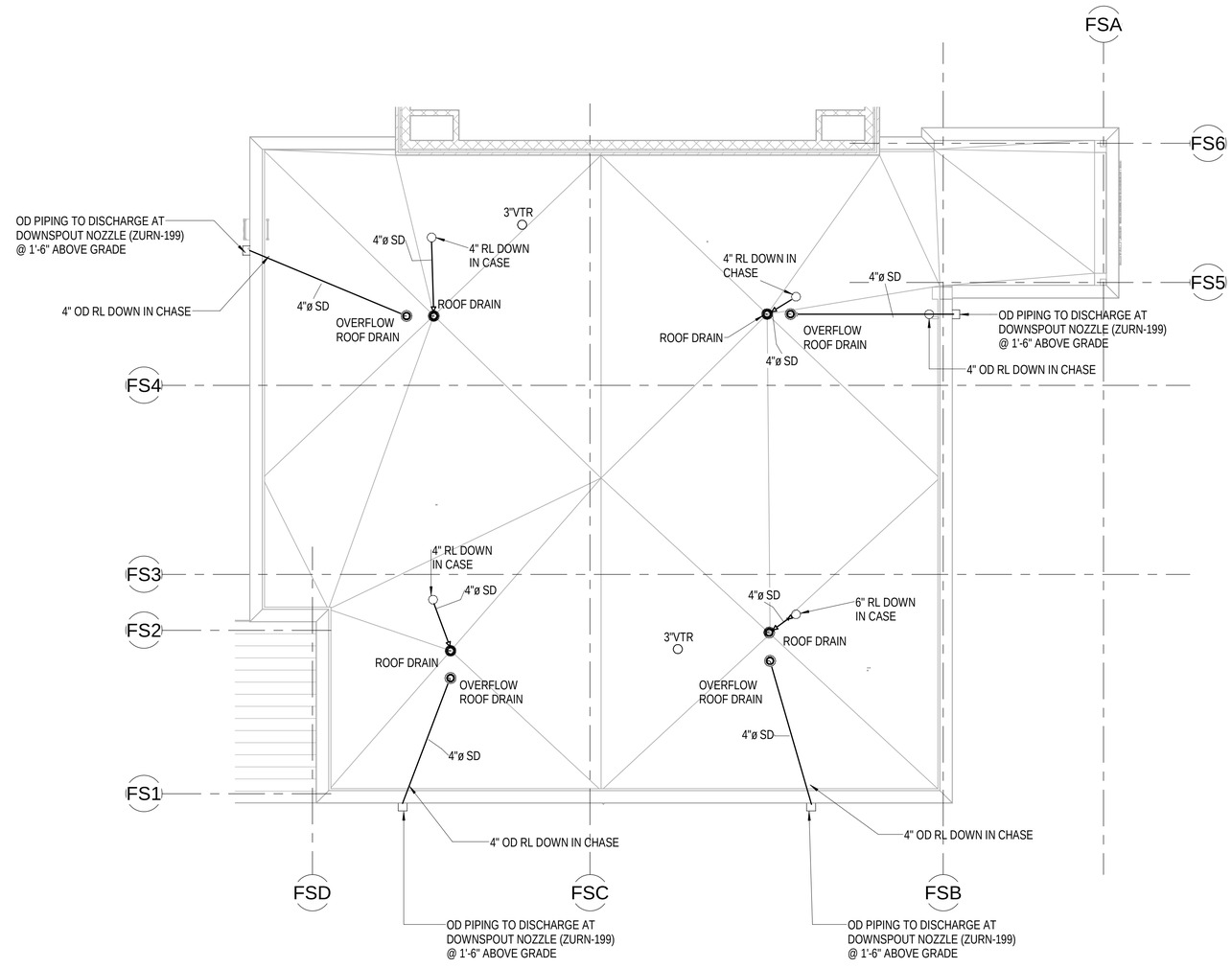
SHEET TITLE:

FIRE STATION - WATER

SHEET NUMBER:

P-06



N

FIRE STATION - ROOF PLAN

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

ISSUED FOR BIDS-AUGUST 2024

SPRINGFIELD CITY COMPLEX

502100062-005

8/6/2024 12:16:45 PM

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Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

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DESIGNED BY: CAJ
DRAWN BY: CAJ
CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100062-005

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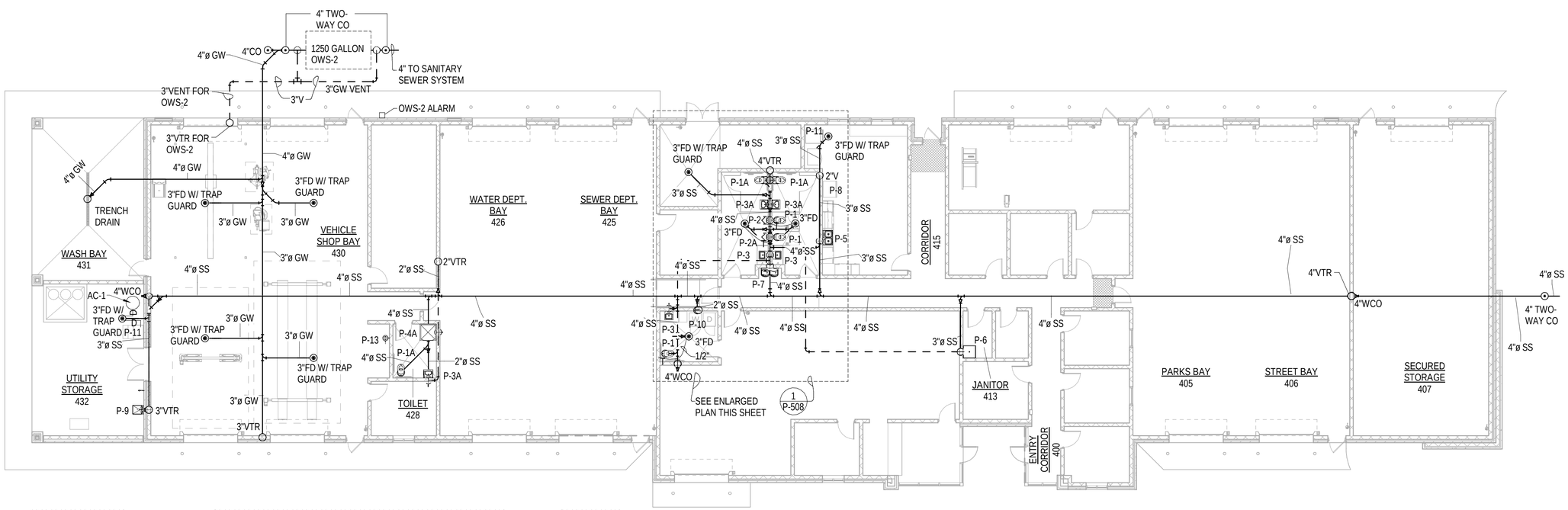
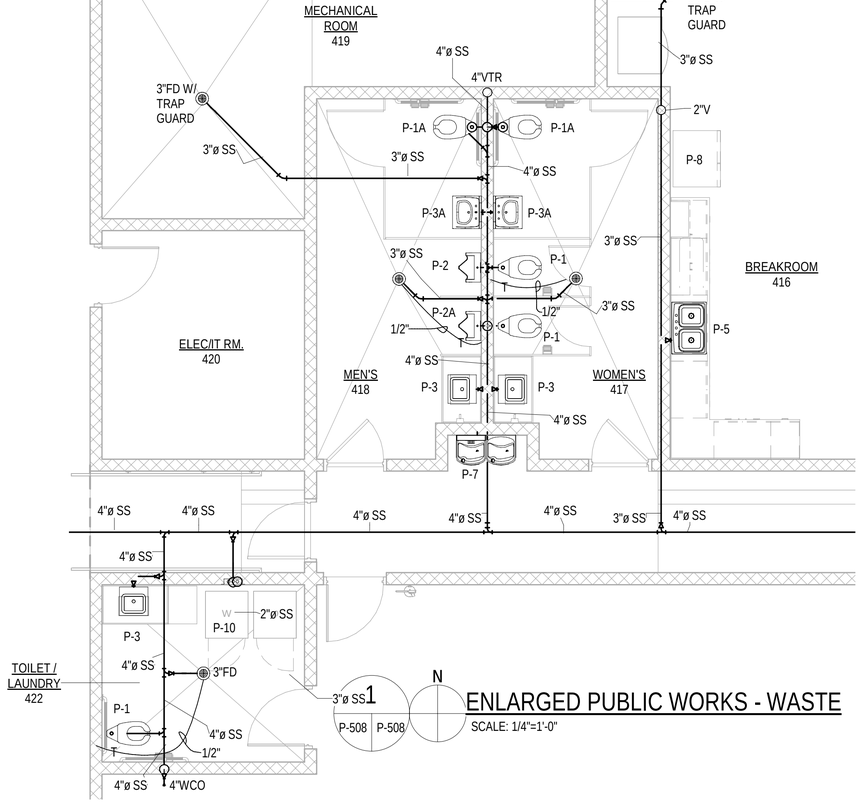
SHEET TITLE:

FIRE STATION - ROOF PLAN

SHEET NUMBER:

P-07





N

PUBLIC WORKS - WASTE

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

N

ENLARGED PUBLIC WORKS - WASTE

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

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Architects AA - C000205
Engineers EB - 0000205
Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: OCT. 03, 2023
DESIGNED BY: CAJ
DRAWN BY: CAJ
CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

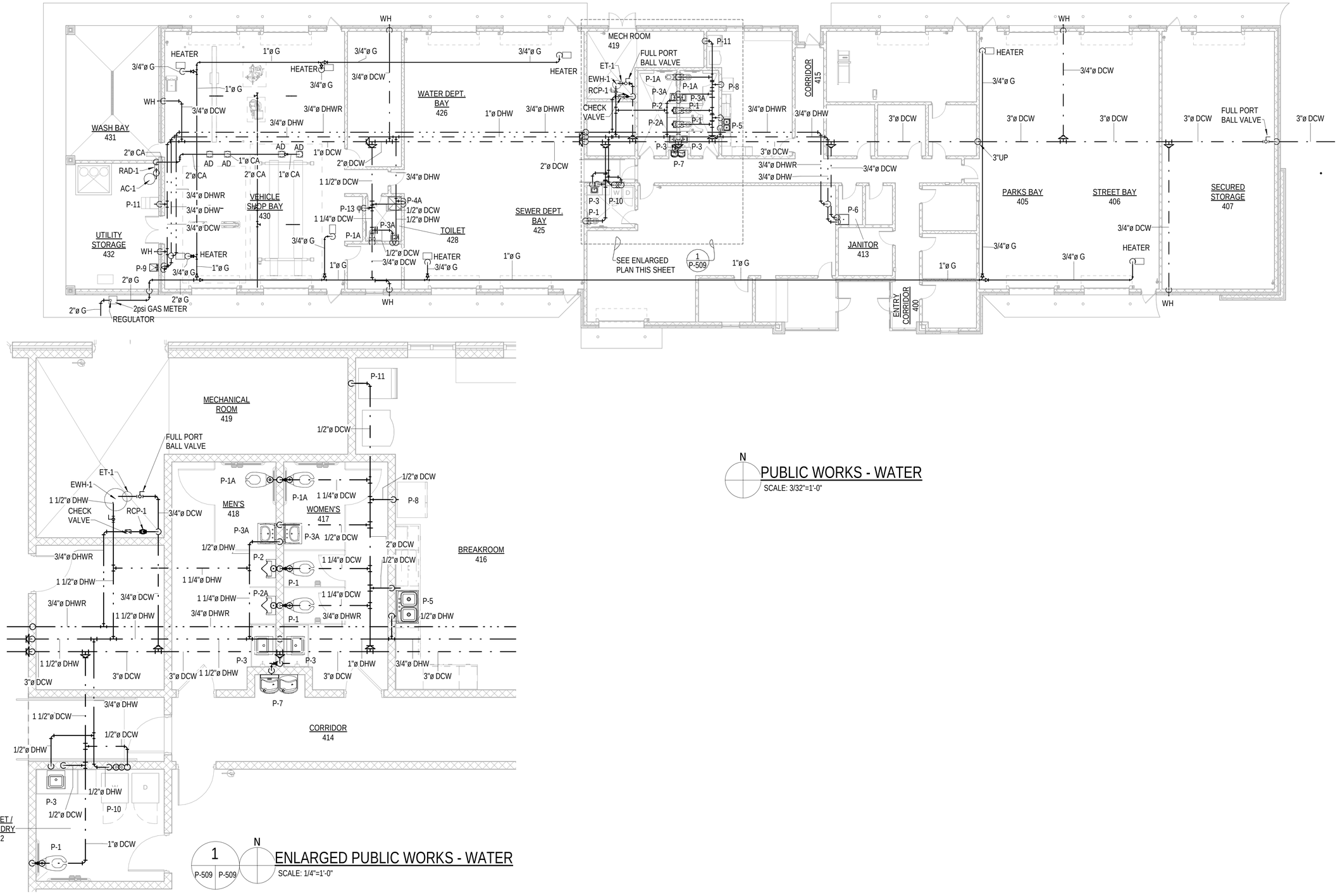
PUBLIC WORKS - WASTE

SHEET NUMBER:

P-08

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 12:16:48 PM

ISSUED FOR BIDS-AUGUST 2024



N

PUBLIC WORKS - WATER

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

N

1 P-509 P-509

ENLARGED PUBLIC WORKS - WATER

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

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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: OCT. 03, 2023
DESIGNED BY: CAJ
DRAWN BY: CAJ
CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100662-005

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SHEET TITLE:

PUBLIC WORKS - WATER

SHEET NUMBER:

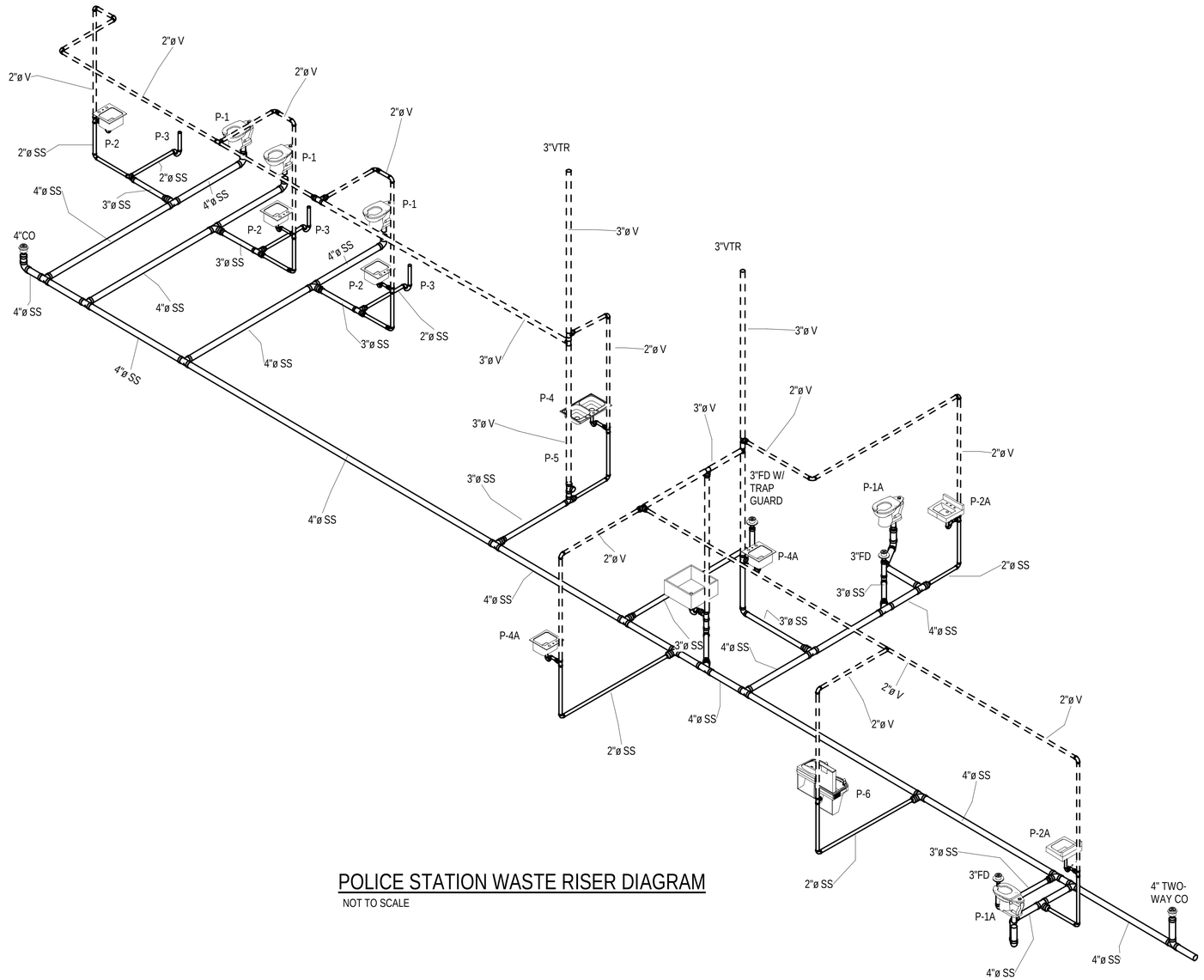
P-09

SPRINGFIELD CITY COMPLEX

50210066Z-005

8/6/2024 12:16:51 PM

ISSUED FOR BIDS-AUGUST 2024



POLICE STATION WASTE RISER DIAGRAM

NOT TO SCALE

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SPRINGFIELD CITY COMPLEX

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SPRINGFIELD, FLORIDA 32401

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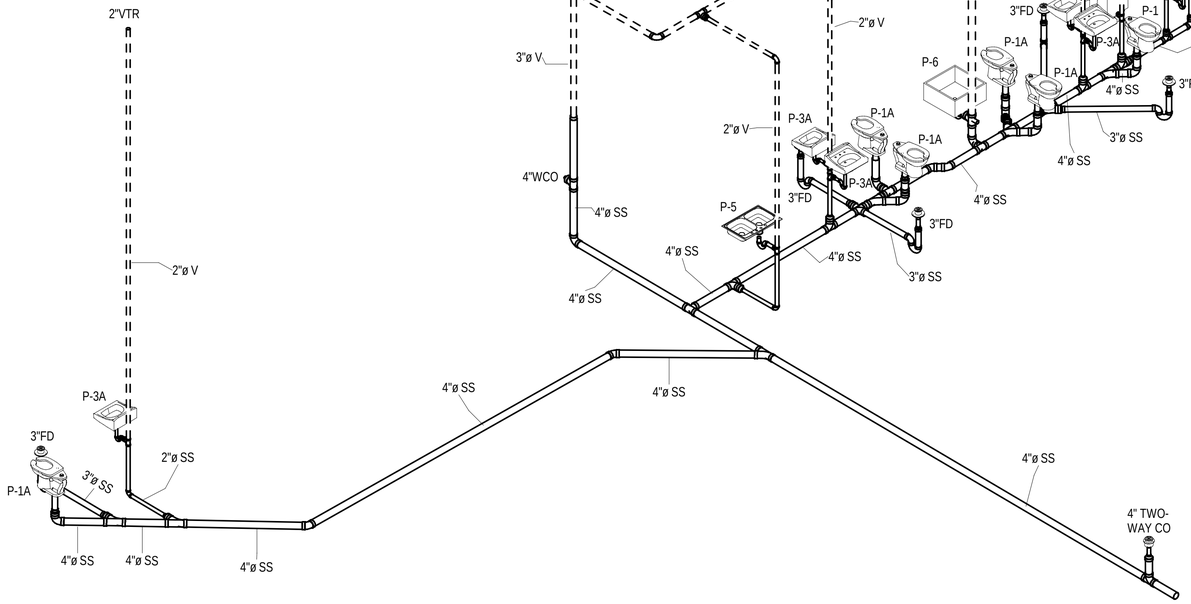
SHEET TITLE:

POLICE STATION WASTE RISER DIAGRAM

SHEET NUMBER:

P-10



CITY HALL WASTE RISER DIAGRAM

NOT TO SCALE

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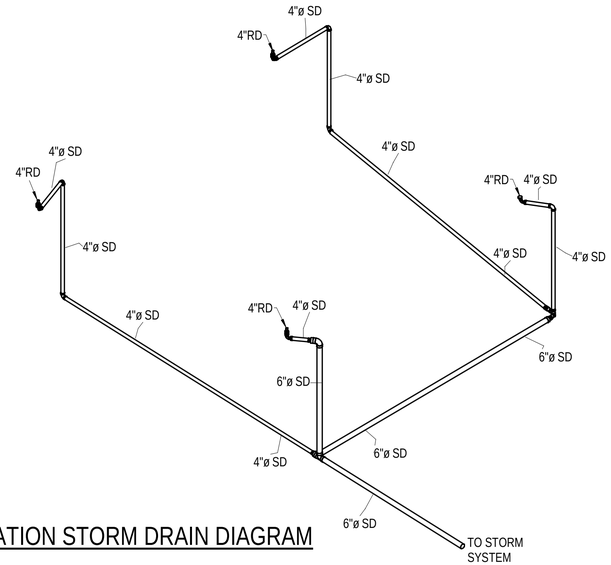
SHEET TITLE:

CITY HALL WASTE RISER DIAGRAM

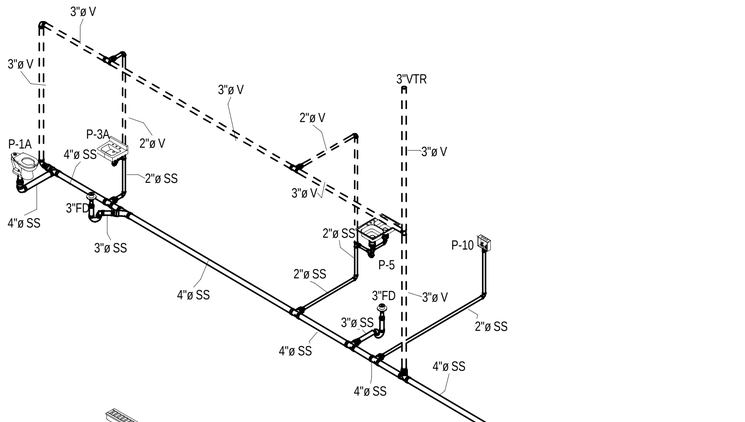
SHEET NUMBER:

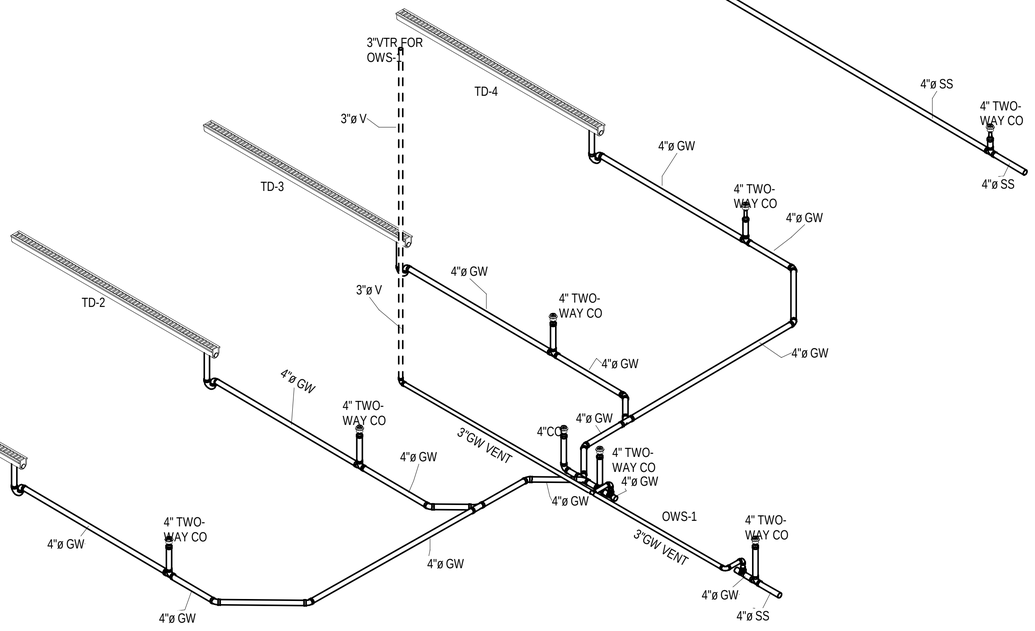
P-11

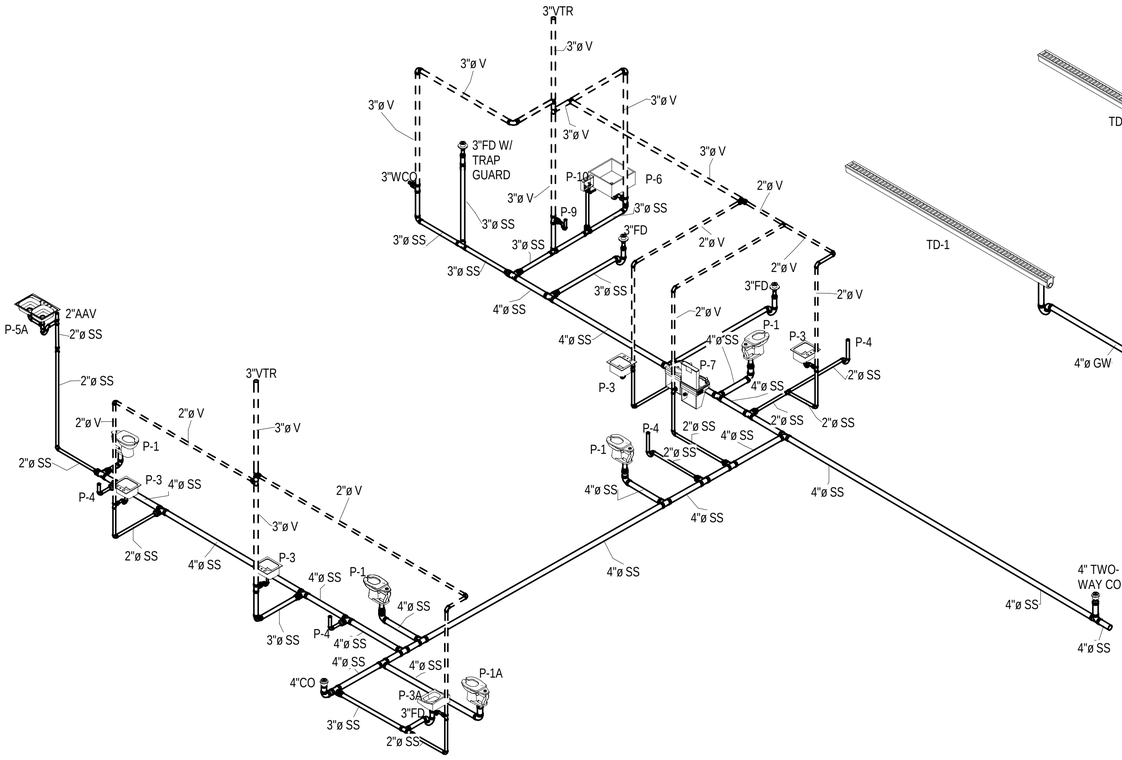


FIRE STATION STORM DRAIN DIAGRAM

NOT TO SCALE







FIRE STATION WASTE RISER DIAGRAM

NOT TO SCALE

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PROJECT MANAGER: GDP
Mott MacDonald PROJECT NO: 502100082-005

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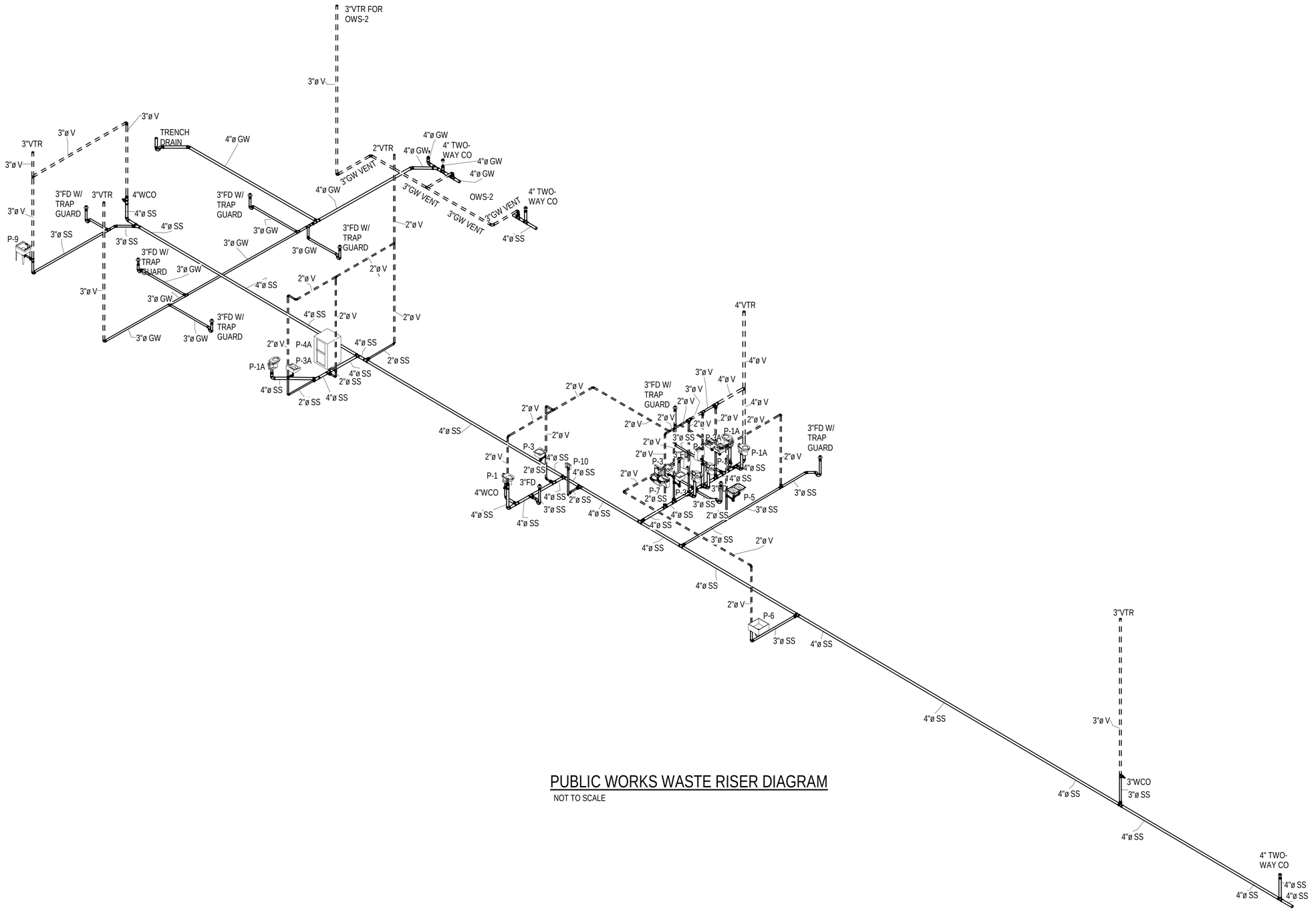
FIRE STATION WASTE RISER DIAGRAM

SHEET NUMBER:

P-12



PUBLIC WORKS WASTE RISER DIAGRAM

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SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
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SPRINGFIELD, FLORIDA 32401

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Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

PUBLIC WORKS WASTE RISER DIAGRAM

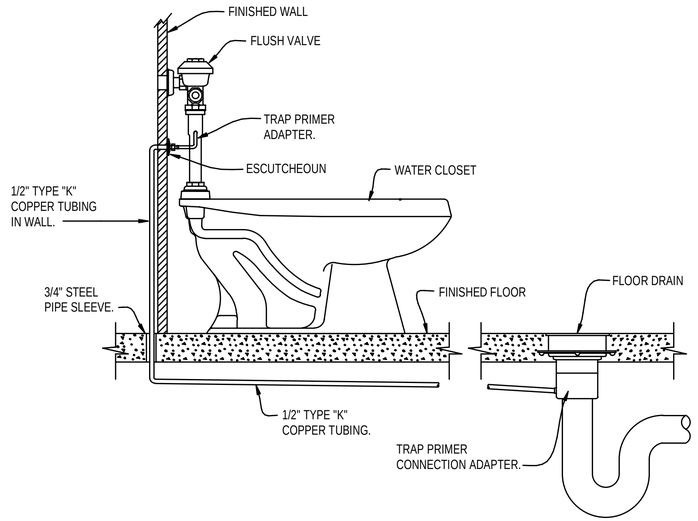
SHEET NUMBER:

P-13

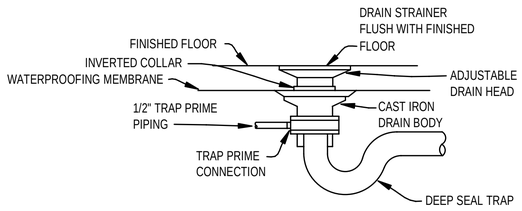
FIXTURE CONNECTION SCHEDULE - ALL BUILDINGS

MARK	DESCRIPTION	WASTE	CW	HW	REMARKS
P-1	WATER CLOSET	4"	1"	--	FLOOR MOUNTED VITREOUS CHINA FLUSH VALVE TYPE @ 1.28 GPF
P-1A	WATER CLOSET (ADA)	4"	1"	--	FLOOR MOUNTED VITREOUS CHINA FLUSH VALVE TYPE FOR ADA @ 1.28 GPF
P-2	URINAL	2"	3/4"	--	WALL HUNG VITREOUS CHINA FLUSH VALVE @ .125 GPF
P-2A	URINAL (ADA)	2"	3/4"	--	WALL HUNG VITREOUS CHINA FOR ADA HEIGHT @ .125 GPF
P-3	LAVATORY	1-1/4"	1/2"	1/2"	UNDERMOUNT VITREOUS CHINA WITH SINGLE LEVER FAUCET @ 0.5 GPM
P-3A	LAVATORY (ADA)	1-1/4"	1/2"	1/2"	WALL HUNG VITREOUS CHINA FOR ADA WITH SINGLE LEVER FAUCET @ 0.5 GPM
P-4	SHOWER (ADA)	2"	1/2"	1/2"	BUILT IN
P-5	KITCHEN SINK	1-1/2"	1/2"	1/2"	TWO COMPARTMENT STAINLESS STEEL WITH GOOSENECK FAUCET AND SPRAYER
P-5A	HAND SINK	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL WITH GOOSENECK FAUCET AND SPRAYER
P-6	MOP SINK	3"	1/2"	1/2"	24"x24"x12" DEEP TERRAZZO WITH SPLASH GUARD, MOP HANGER & STOPS
P-7	ELECTRIC WATER COOLER (ADA)	1-1/4"	1/2"	--	WALL MOUNTED SPLIT LEVEL BUBBLER STYLE WITH BOTTLE FILLER AT ADA HEIGHT
P-8	ICE MAKER VALVE BOX	--	1/2"	--	WALL RECESSED WITH "AA" WATER HAMMER ARRESTOR
P-9	LAUNDRY TUB	2"	1/2"	1/2"	FLOOR MOUNTED
P-10	WASHER BOX	2"	1/2"	1/2"	WALL RECESSED
P-11	ICE MAKER	TO FD	1/2"	--	FLOOR MOUNTED
P-12	DISHWASHER	3/4" HOSE	--	3/4"	UNDER COUNTER
P-13	EYEWASH	3/4" HOSE	1/2"	1/2"	PEDESTAL MOUNTED WITH STAINLESS STEEL BOWL
FD	FLOOR DRAIN	3"	--	--	PROVIDE WITH TRAP PRIME UNLESS OTHERWISE NOTED
WH	WALL HYDRANT	--	3/4"	--	RECESSED FREEZE PROOF

(ADA) DENOTES FIXTURES TO BE MANUFACTURED AND MOUNTED FOR AMERICANS WITH DISABILITIES USE. INSULATE SUPPLIES AND P-TRAP.



TRAP PRIMER INSTALLATION DETAIL
NOT TO SCALE



FLOOR DRAIN DETAIL
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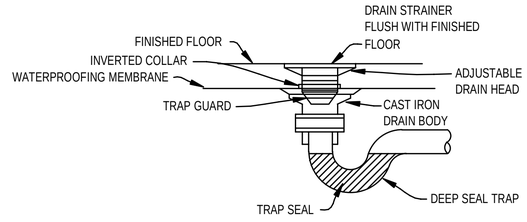

FLOOR DRAIN W/ TRAP GUARD DETAIL
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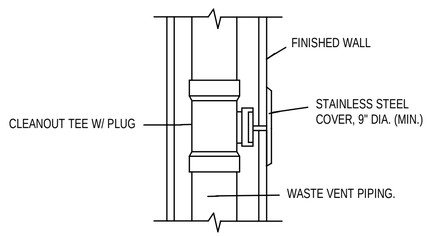
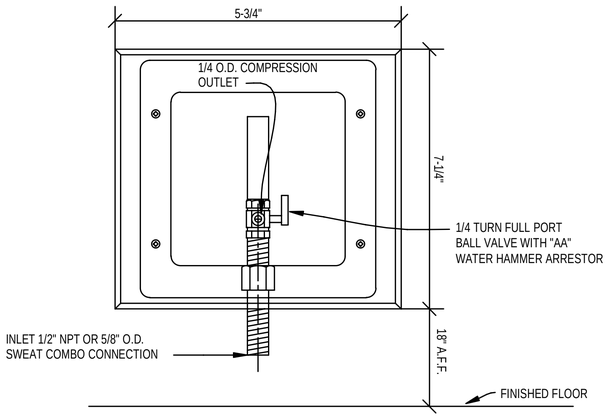
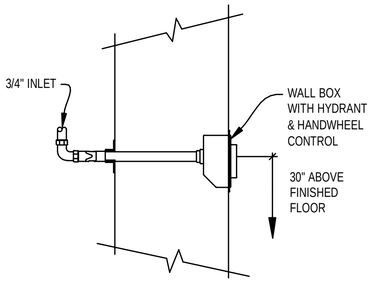


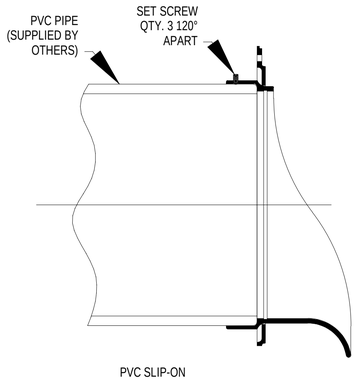
WALL CLEANOUT DETAIL
NOT TO SCALE



ICE MAKER VALVE BOX DETAIL
NOT TO SCALE



WALL HYDRANT DETAIL
NOT TO SCALE



DOWNSPOUT DETAIL
NOT TO SCALE

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Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: OCT. 03, 2023
DESIGNED BY: CAJ
DRAWN BY: CAJ
CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: Approver
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
PLUMBING FIXTURE SCHEDULE & DETAILS

SHEET NUMBER:
P-14

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 12:16:57 PM

ISSUED FOR BIDS-AUGUST 2024

ELECTRIC WATER HEATER SCHEDULE - PS

MARK	LOCATION	STORAGE CAPACITY	NUMBER OF ELEMENTS	WATTS PER ELEMENT	ELECTRICAL		
					VOLTS	PHASE	HZ
EWH-1	JANITOR'S ROOM	50	3	4.0	208	3	60

EXPANSION TANK SCHEDULE - PS

MARK	TYPE	VOLUME ACCEPTANCE	VOLUME	AIR CHARGE	MAX. WORKING PRESSURE	REMARKS BASIS OF DESIGN:
ET-1	VERTICAL	0.9 GAL	2.1 GAL	SYSTEM PRESSURE	150 PSI	AMTROL - ST-5

CIRCULATION PUMP SCHEDULE - PS

MARK	TYPE	CONTROLS	HP	ELECTRICAL		
				VOLTS	PH	Hz
CP-1	INLINE BRONZE	RUN CONTINUOUS	1/25	115	1	60

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PROJECT MANAGER: Approver
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

POLICE STATION SCHEDULES AND DETAILS

SHEET NUMBER:

P-15

8/6/2024 12:16:58 PM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024

ELECTRIC WATER HEATER SCHEDULE - CH

MARK	LOCATION	STORAGE CAPACITY	NUMBER OF ELEMENTS	WATTS PER ELEMENT	ELECTRICAL		
					VOLTS	PHASE	HZ
EWH-1	JANITOR	40	2 *	4.5	208	1	60

* WIRE FOR NON-SIMULTANEOUS OPERATION

EXPANSION TANK SCHEDULE - CH

MARK	TYPE	VOLUME ACCEPTANCE	VOLUME	AIR CHARGE	MAX. WORKING PRESSURE	REMARKS BASIS OF DESIGN:
ET-1	VERTICAL	0.9 GAL	2.1 GAL	SYSTEM PRESSURE	150 PSI	AMTROL - ST-5

CIRCULATION PUMP SCHEDULE - CH

MARK	TYPE	CONTROLS	HP	ELECTRICAL		
				VOLTS	PH	Hz
CP-1	INLINE BRONZE	RUN CONTINUOUS	1/25	115	1	60

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SHEET TITLE:

CITY HALL SCHEDULES AND DETAILS

SHEET NUMBER:

P-16

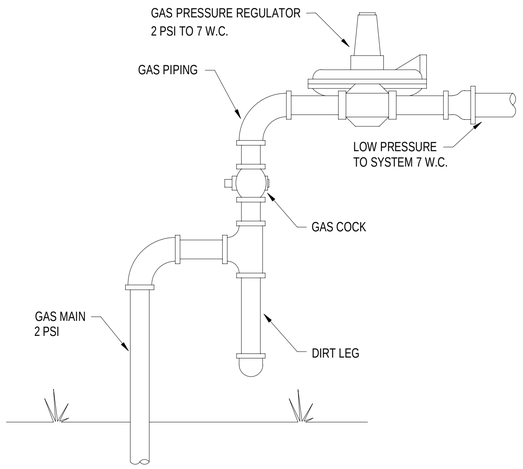
BREATHING AIR SYSTEM SCHEDULE - FS

MARK	NO. OF COMP.	CFM	WORKING PRESSURE	ELECTRICAL			HP	TYPE	RECEIVER
				VOLTS	Hz	Ph			
BAS-1	1	9.5	6000 psi	208/230	60	1	7.5	HORIZONTAL FOUR STAGE	* (NRTL) PER UL 508A STANDARD

* NATIONALLY RECOGNIZED TESTING LABORATORY

GAS PRESSURE REGULATER SCHEDULE - FS

MARK	CFH	INLET PRESSURE	OUTLET PRESSURE	REMARKS
METER	240	2 PSI	7"W.C.	--



GAS REGULATOR DETAIL

NOT TO SCALE

ELECTRIC WATER HEATER SCHEDULE - FS

MARK	LOCATION	STORAGE CAPACITY	IMMERSE HEATERS	WATTS PER ELEMENT	ELECTRICAL		
					VOLTS	PHASE	HZ
EWH-1	MECH ROOM 316	65	2	18.0	208	3	60

EXPANSION TANK SCHEDULE - FS

MARK	TYPE	VOLUME ACCEPTANCE	VOLUME	AIR CHARGE	MAX. WORKING PRESSURE	REMARKS BASIS OF DESIGN:
ET-1	VERTICAL	0.9 GAL	2.1 GAL	SYSTEM PRESSURE	150 PSI	AMTROL - ST-5

CIRCULATION PUMP SCHEDULE - FS

MARK	TYPE	CONTROLS	HP	ELECTRICAL		
				VOLTS	PH	Hz
CP-1	INLINE BRONZE	RUN CONTINUOUS	1/25	115	1	60

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SHEET TITLE:

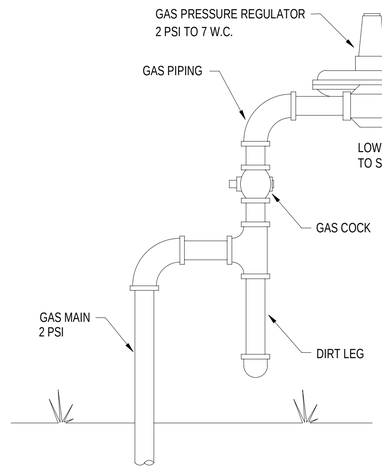
FIRE STATION SCHEDULES AND DETAILS

SHEET NUMBER:

P-17

GAS PRESSURE REGULATER SCHEDULE - PW

MARK	CFH	INLET PRESSURE	OUTLET PRESSURE	REMARKS
METER	240	2 PSI	7"W.C.	--



GAS REGULATOR DETAIL

NOT TO SCALE

AIR COMPRESSOR SCHEDULE - FS

MARK	NO. OF COMP.	SCFM	MAX PRESSURE	ELECTRICAL			HP	TYPE	RECEIVER
				VOLTS	Hz	Ph			
AC-1	1	52	175 psi	208	6O	3	15	HORIZONTAL TWO STAGE	120 GAL. ASME RATED

NOTE: PROVIDE COMPRESSOR WITH START - UP KIT

REFRIGERATED AIR DRYER SCHEDULE - FS

MARK	SCFM	MAX WORKING PRESS PSI	COMP. HP	ELECTRICAL			REMARKS
				VOLTS	Hz	Ph	
RAD-1	34	175	1/2	115	60	1	--

ELECTRIC WATER HEATER SCHEDULE - PW

MARK	LOCATION	STORAGE CAPACITY	NUMBER OF ELEMENTS	WATTS PER ELEMENT	ELECTRICAL		
					VOLTS	PHASE	HZ
EWH-1	MECH ROOM 419	40	2 *	4.5	208	1	60

* WIRE FOR NON-SIMULTANEOUS OPERATION

EXPANSION TANK SCHEDULE - PW

MARK	TYPE	VOLUME ACCEPTANCE	VOLUME	AIR CHARGE	MAX. WORKING PRESSURE	REMARKS BASIS OF DESIGN:
ET-1	VERTICAL	0.9 GAL	2.1 GAL	SYSTEM PRESSURE	150 PSI	AMTROL - ST-5

CIRCULATION PUMP SCHEDULE - PW

MARK	TYPE	CONTROLS	HP	ELECTRICAL		
				VOLTS	PH	Hz
CP-1	INLINE BRONZE	RUN CONTINUOUS	1/25	115	1	60

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Engineers EB - 0000205
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SPRINGFIELD CITY COMPLEX

CITY OF SPRINGFIELD
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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: OCT. 03, 2023
DESIGNED BY: CAJ
DRAWN BY: CAJ
CHECKED BY: GDP
PROJECT ARCHITECT:
PROJECT MANAGER: Approver
Mott MacDonald PROJECT NO: 502100062-005

This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C. Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

SHEET TITLE:

PUBLIC WORKS SCHEDULES AND DETAILS

SHEET NUMBER:

P-18

HVAC GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE HARD SUSPENDED CEILING, OR ACOUSTICAL CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. COORDINATE LOCATION WITH MECHANICAL INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. LOSS FOR FILTERS SHALL BE FOR FILTERS AT 50% LOADING. SOUND POWER LEVEL OF THE FANS MUST NOT EXCEED 85 dBA WHEN TESTED ACCORDING TO AMCA STANDARDS.
5. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
6. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES. DIFFUSER SHALL MINIMIZE CEILING SMUDGING.
7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
9. INSTALL A COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
10. CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
11. INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
12. THE APPROXIMATE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN WHERE APPLICABLE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND PROTECT BEFORE COMMENCING WORK.
13. COORDINATE EQUIPMENT CLEARANCES (AS RECOMMENDED BY MANUFACTURER) WITH ALL DISCIPLINES BEFORE INSTALLATION.
14. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT, VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
15. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT, MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 IN. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 IN. ON ALL SIDES.
16. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT.
17. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DECTECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK THAT REQUIRE SERVICE AND/OR INSPECTION. PROVIDE DUCT ACCESS DOORS AT REGULAR INTERVALS TO FACILITATE THE CLEANING OF DUCT SYSTEMS.
18. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UPSTREAM AND DOWNSTREAM AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
19. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
20. LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
21. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH AN APPROVED PRODUCT.
22. ALL EQUIPMENT REQUIRING CONDENSATE DRAIN LINES SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, TRAPPED PER MANUFACTURERS DETAILS FOR ACTUAL EQUIPMENT AND STATIC PRESSURE. CONDENSATE SHALL BE PIPED TO THE NEAREST DRAIN AS INDICATED. PROVIDE CONDENSATE PUMPS AS REQUIRED.
23. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
24. THERMOSTATS INDICATED ADJACENT TO DOORWAYS SHALL BE LOCATED WITHIN 18" OF JAMB AT LOCATIONS WITH LIGHT SWITCHES, LOCATE THERMOSTAT SUCH THAT LIGHT SWITCH IS BETWEEN THERMOSTAT AND JAMB. VERIFY THERMOSTAT LOCATION WITH SYSTEM FURNITURE LAYOUT PRIOR TO INSTALLING THERMOSTATS.
25. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
26. PROVIDE ALL 90-DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
27. LAUNDRY EXHAUST SHALL BE OF UNVANED SMOOTH RADIUS CONSTUCTION WITH A RADIUS EQUAL TO 1-1/2" TIMES THE WIDTH OF THE DUCT.
28. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING MOUNTED EQUIPMENT AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
29. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER DIMENSIONS INDICATED DOES NOT INCLUDE FRAME OR FLANGES. APPROXIMATE ROUGH OPENING IN WALL ASSEMBLY IS INDICATED ON ARCHITECTURAL.
30. AVOID ROUTING DUCTWORK AND MECHANICAL EQUIPMENT OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND DUCT INSULATION TO TOP OF LIGHTS. PROVIDE CLEARANCE AND ACCESS ALL AROUND AND BELOW MECHANICAL EQUIPMENT AS REQUIRED FOR ROUTINE MAINTENANCE.
31. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
32. ALL AIR INTAKES OPENING TO EXTERIOR SHALL HAVE A MIN 10'-0" CLEARANCE FROM ANY EXHAUST OPENING TO PREVENT RECIRCULATION.
33. MOUNT DUCTWORK AS HIGH AS POSSIBLE WHERE EXPOSED, UNLESS OTHERWISE NOTED.
34. EXPOSED DUCTWORK SHALL BE DOUBLE-WALL INSULATED WITH A SOLID LINER. PROVIDE GALVANIZED FINISH SUITABLE FOR PAINTING. PRIME AND PAINT TO COLOR SELECTED BY ARCHITECT.
35. ALL ROUND FLEXIBLE DUCT SHALL BE FACTORY PREINSULATED THERMOFLEX OR EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
36. ALL SUPPLY AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. (COMMERCIAL DESIGN)
37. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
38. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
39. EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
40. KITCHEN EXHAUST AIR DUCTWORK AND GREASE LADEN EXHAUST DUCT SHALL BE CONSTRUCTED IAW NFPA 96. HORIZONTAL DUCT RUNS SHALL BE SLOPED BACK TOWARDS HOOD. DUCTWORK SHALL BE STAINLESS STEEL FULLY WELDED LIQUID TIGHT CONSTRUCTION, PROVIDE ACCESS DOORS PER NFPA 96. TRANSITION AND MAKE FINAL CONNECTION TO EXHAUST COLLAR WITH DUCT SIZED PER COLLAR DIMENSIONS ON KITCHEN EQUIPMENT DRAWINGS. APPLY 2HR RATED UL LISTED GREASE DUCT INSULATION.

HVAC LEGEND

- SUPPLY AIR DUCT UP
- SUPPLY AIR DUCT DOWN
- RETURN AIR DUCT UP
- RETURN AIR DUCT DOWN
- EXHAUST AIR DUCT UP
- EXHAUST AIR DUCT DOWN
- WxH — DOUBLE WALL DUCTWORK. FIRST FIGURE IS SIDE SHOWN.
- WxH — INTERNALLY LINED DUCTWORK. FIRST FIGURE IS SIDE SHOWN.
- WxH — RECTANGULAR DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. FIRST FIGURE IS SIDE SHOWN.
- W/H — OVAL DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. FIRST FIGURE IS SIDE SHOWN.
- Ø — ROUND SPIRAL SEAM GALVANIZED STEEL DUCTWORK. SIZE SHOWN IS SHEET METAL DIAMETER.
- FACTORY FABRICATED/INSULATED FLEXIBLE ROUND DUCT, SAME SIZE AS OUTLET DIAMETER.
- Ø / Ø — ROUND BRANCH DUCT TAKEOFF FROM ROUND DUCT MAIN. BRANCH DUCT SHALL BE ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK OR FLEXIBLE ROUND DUCT. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER.
- WxH / Ø — ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR DUCT MAIN. BRANCH DUCT SHALL BE ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK OR FLEXIBLE ROUND DUCT. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER.
- WxH / WxH — RECTANGULAR BRANCH DUCT TAKE OFF FROM RECTANGULAR DUCT MAIN WITH 45° COLLAR AND MANUAL VOLUME DAMPER.
- SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH DOUBLE WALL TURNING VANES.
- LONG RADIUS ELBOW IN RECTANGULAR DUCT.
- RECTANGULAR TO ROUND DUCT TRANSITION.
- RECTANGULAR TO RECTANGULAR DUCT TRANSITION.
- AUTOMATIC OPPOSED BLADE DAMPER
- AUTOMATIC PARALLEL BLADE DAMPER
- FD — MOTORIZED FIRE DAMPER
- ROUND MANUAL VOLUME DAMPER
- RECTANGULAR MANUAL VOLUME DAMPER

- 24"x24" FACE CEILING DIFFUSER EQUAL TO "TITUS TMSA-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- 12"x12" FACE CEILING DIFFUSER EQUAL TO "TITUS TMSA-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- CEILING DIFFUSER EQUAL TO "TITUS 250-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- RETURN AIR CEILING GRILLE EQUAL TO "TITUS 350FL". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID.
- EXHAUST AIR GRILLE EQUAL TO "TITUS 350FL". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID.
- SIDE WALL MOUNTED SUPPLY REGISTER, EQUAL TO "TITUS FL-25 ".
- SIDE WALL MOUNTED RETURN REGISTER, EQUAL TO "TITUS 350FL".
- SIDE WALL MOUNTED EXHAUST REGISTER, EQUAL TO "TITUS 350FL".
- PIPE UP
- PIPE DN
- PIPE TRANSITION
- UNION
- 1/8" / 12" — PIPE SLOPE AND SLOPE DIRECTION

SYMBOLS

- XXX — THERMOSTAT WITH UNIT NUMBER
- T — THERMOSTAT WITH UNIT NUMBER
- H — HUMIDISTAT
- NO2 — NITROGEN DIOXIDE SENSOR
- CO — CARBON MONOXIDE SENSOR
- AI — ANALOG IN
- AO — ANALOG OUT
- DI — DIGITAL IN
- DO — DIGITAL OUT
- 1 — ROUND SHEET NOTE

DETAIL NUMBER 1 / SHEET NUMBER A101 — View Name 1/8" = 1'-0"

DETAIL NUMBER 1 / SHEET NUMBER A101 R101 / REFERENCE SHEET — View Name 1/8" = 1'-0"

SECTION NUMBER 1 / SHEET NUMBER A101

SECTION NUMBER 1 / SHEET NUMBER A101 R101 / REFERENCE SHEET

EQUIPMENT ABBREVIATION AHU / EQUIPMENT MARK #

DIFFUSER / GRILLE TAG

INDICATES QTY — TYP. OF 2
INDICATES TYPE — CD 8"ø 200 CFM
INDICATES DUCT INLET SIZE
INDICATES AIR FLOW

LOUVER TAG

INDICATES TYPE — LVR-OA 10W"X32H" 1000 CFM
INDICATES DUCT DIMENSIONS
INDICATES AIR FLOW

FAN COIL OUTSIDE AIR TAG

INDICATES QTY — TYP OF 2
EQUIPMENT MARK AND # — FCU 333A
OUTSIDE AIR SUPPLIED — 99 CFM

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SPRINGFIELD CITY COMPLEX

City of Springfield
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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

POLICE STATION HVAC LEGENDS & GENERAL NOTES

SHEET NUMBER:

M1-00

HVAC ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
ACD-TP	AUTOMATIC CONTROL DAMPER, TWO POSITION
AD	ACCESS DOOR
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR-HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AW	AIR WASHER
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BG	BOTTOM GRILLE
BHP	BRAKE HORSEPOWER
BR	BOTTOM REGISTER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CG	CEILING GRILLE
CM	CARBON MONOXIDE
CO	CLEAN OUT
COMP	COMPRESSOR UNIT
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
D	DAMPER - AUTOMATIC
Db	DRY-BULB TEMPERATURE
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
DXCC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
ENT	ENTERING
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
F	FAHRENHEIT
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
GA	GAUGE
GH	GAS HEATER
GPR	GAS PRESSURE REGULATOR
GS	GALVANIZED STEEL
HC	HEATING COIL
HD	HOOD
HOA	HAND/OFF/AUTOMATIC
HP	HORSEPOWER
HRU	HEAT RECOVERY UNIT
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IN	INCHES
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IS	INSECT SCREEN
KW	KILOWATT
KWH	KILOWATT HOUR
L	LITER
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FOOT (FEET)
LH	LATENT HEAT
LSD	LINEAR SLOT DIFFUSER
LVG	LEAVING
LVR	LOUVER
MAX	MAXIMUM
MBH	1,000 BTU/HOUR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NTS	NOT TO SCALE
NSB	NIGHT SETBACK
OA	OUTSIDE AIR
OAD	OUTDOOR AIR DAMPER
OAG	OUTSIDE AIR GRILLE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PG	PRESSURE GAGE
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PPD	PINTS PER DAY
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RAT	RETURN AIR TEMPERATURE
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCR	SILICON CONTROLLED RECTIFIER
SD	SUPPLY AIR DIFFUSER
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SI	SQUARE INCHES
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TG	TRANSFER GRILLE
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
UC	UNDER CUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATOR
VSD	VARIABLE SPEED DRIVE
VUH	VERTICAL UNIT HEATER
W	WATTS
WB	WET-BULB (TEMPERATURE)
WEF	WALL EXHAUST FAN
YR	YEAR

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DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
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PROJECT MANAGER: G. PETERSON
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SHEET TITLE:
HVAC ABBREVIATIONS

SHEET NUMBER:
M1-01

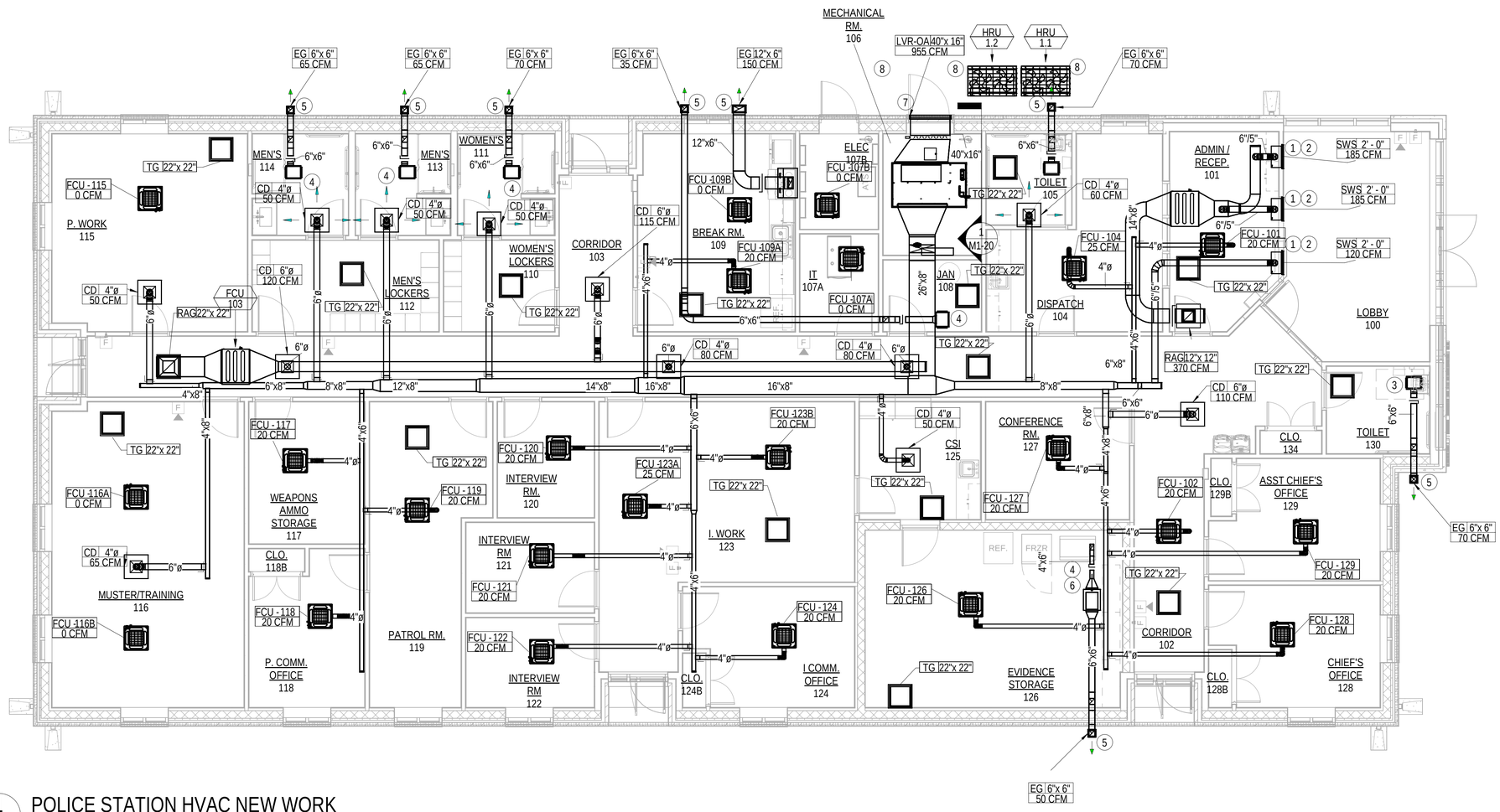
ISSUED FOR BIDS-AUGUST 2024

NOTES

1. ALIGN TOP EDGE OF DIFFUSER WITH TOP EDGE OF ADJACENT STOREFRONT GLASS FRAME.
2. INSTALL WITH PLENUM BOX AND VOLUME DAMPER ACCESSORIES.
3. ENABLE EXHAUST FAN WITH SIGNAL FROM ROOM OCCUPANCY SENSOR.
4. ENABLE EXHAUST FAN WITH OCCUPANCY SCHEDULE.
5. ROUTE DUCT ABOVE EXTERIOR WALL AND INSTALL GRILLE IN SOFFIT.
6. ALIGN DUCTWORK TO VENTILATED CABINET CONNECTION AND CONNECT WITH APPROPRIATE SIZED FITTING. SEAL ALL JOINTS.
7. CENTER OUTSIDE AIR LOUVER IN TRANSOM OF MECHANICAL ROOM DOOR.
8. SECURE UNIT TO 4" THICK CONCRETE PAD 6" LARGER THAN THE UNIT ON ALL SIDES.

GENERAL NOTES

1. SEE FAN COIL SCHEDULE FOR CASSETTE AND WALL MOUNTED FAN COIL DISCHARGE AIR FLOWS.



1 M1-10 POLICE STATION HVAC NEW WORK

3/16" = 1'-0"

TRUE NORTH PROJECT NORTH

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SCALE: 3/16"=1'-0"

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PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100082-005

This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C. Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

SHEET TITLE:

POLICE STATION HVAC NEW WORK

SHEET NUMBER:

M1-10

ISSUED FOR BIDS-AUGUST 2024

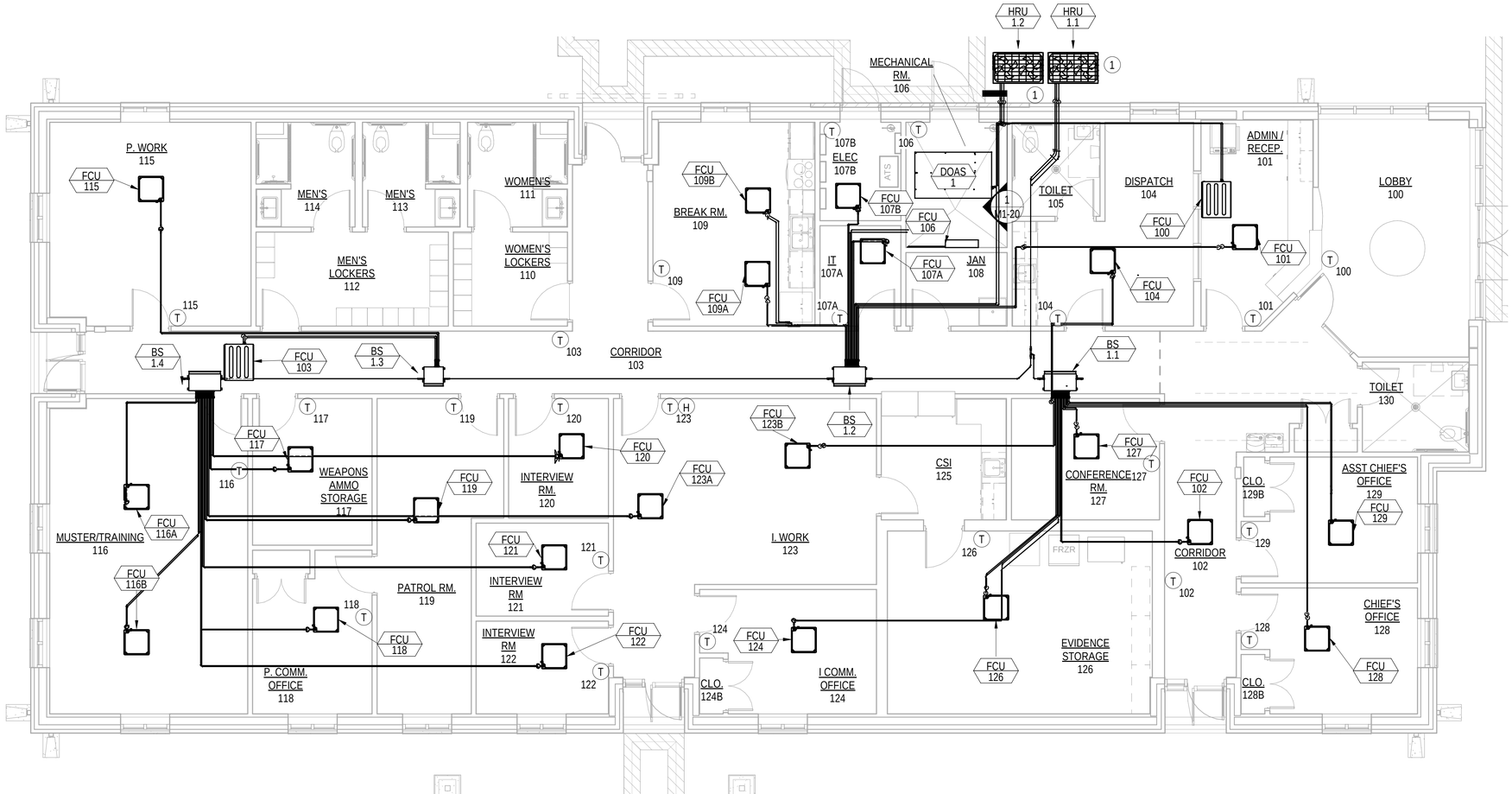
SPRINGFIELD CITY COMPLEX
502100082-005
8/6/2024 8:32:18 AM

NOTES

1. MAINTAIN MANUFACTURER'S CLEARANCE REQUIREMENTS.

GENERAL NOTES

1. PLACE THERMOSTATS IN AREA AWAY FROM HEAT PRODUCING EQUIPMENT.
2. LOCATE THERMOSTATS 4'6" ABOVE FINISHED FLOOR.
3. THERMOSTATS IN CLOSE PROXIMITY TO A SWINGING DOOR SHALL BE INSTALLED ON THE SIDE OPPOSITE THE DOOR HINGES.
4. FINAL PIPE CONFIGURATION WILL VARY WITH EQUIPMENT MANUFACTURER. SEE MANUFACTURER INSTALLATION MANUAL FOR PIPE SIZES AND ACCESSORIES.
5. SUBMIT SHOP DRAWINGS FROM THE MANUFACTURER'S EQUIPMENT REPRESENTATIVE SHOWING FINAL LAYOUT AND ALL ACCESSORIES, PIPE SIZES, AND SYSTEM CONTROLS.



TRUE NORTH PROJECT NORTH

1 M1-11

POLICE STATION REFRIGERANT PIPING

3/16" = 1'-0"

PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
(850) 434-0513
PEI 21173

5' 0' 5' 10'
SCALE: 3/16"=1'-0"

MOTT MACDONALD FLORIDA LLC
1022 West 23rd Street
Suite 500
Panama City, Florida 32405
Telephone: (850) 763-9393
Architects AA - C000205
Engineers EB - 0000205
Surveyors LB - 0000783
MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

POLICE STATION REFRIGERANT PIPING

SHEET NUMBER:

M1-11

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:21 AM

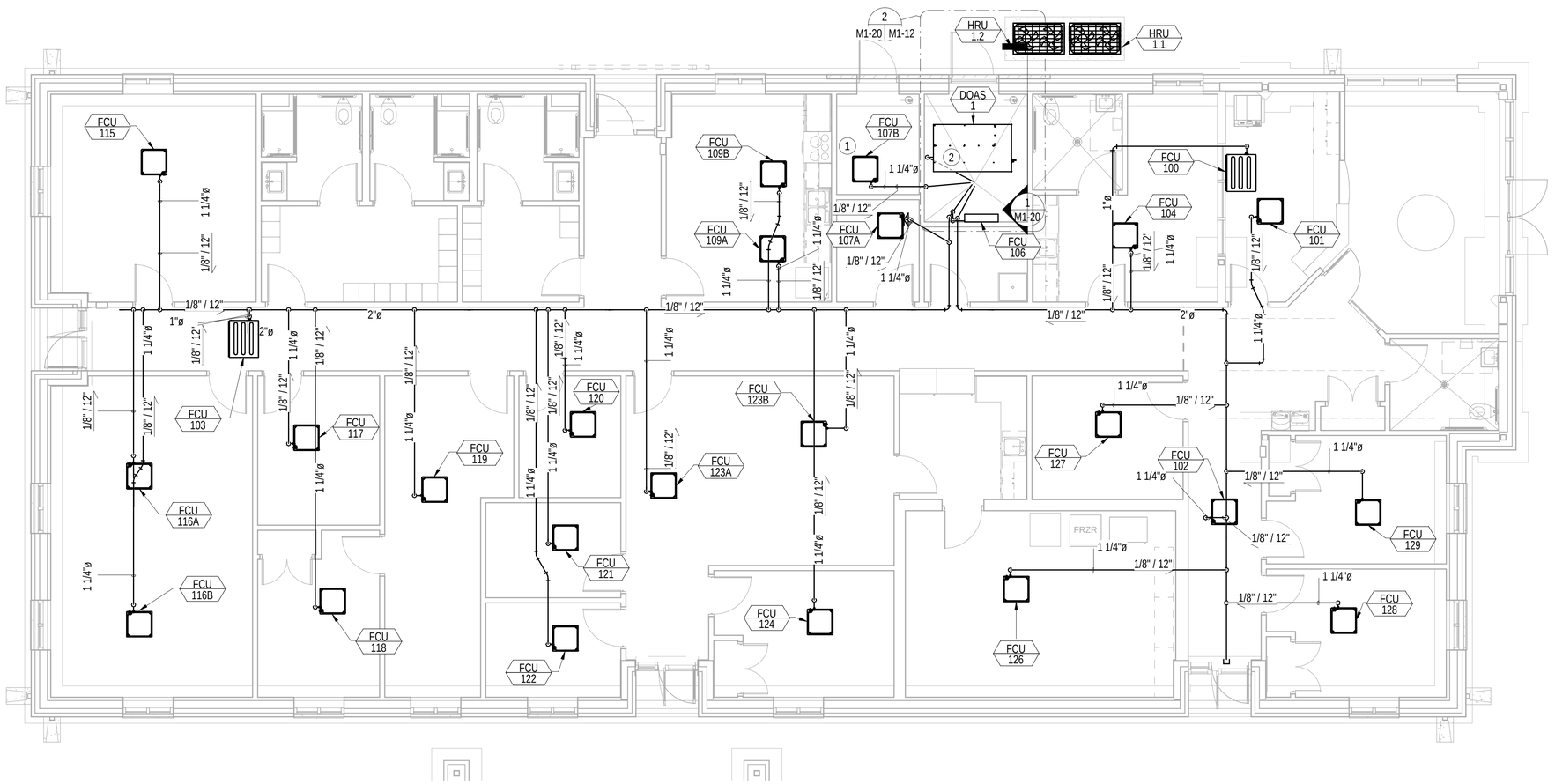
ISSUED FOR BIDS-AUGUST 2024

GENERAL NOTES

1. MAXIMUM PIPE ELEVATION FROM BOTTOM OF FAN COILS IS 27-1/2".
2. ALL HORIZONTAL RUNS SHALL SLOPE DOWN 1/8" PER 1' TOWARDS DRAIN LOCATIONS.
3. CONNECT CONDENSATE BRANCH LINES TO TOP HALF OF MAIN CONDENSATE LINE.

KEY NOTES

1. ROUTE PIPING TO COMPLY WITH NEC 110.26(E)
2. PROVIDE CONDENSATE TRAP AS SPECIFIED BY DOAS MANUFACTURER.



1 M1-12 POLICE STATION CONDENSATE PIPING

3/16" = 1'-0"

TRUE NORTH PROJECT NORTH

PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
(850) 434-0513
PEI 21173

5' 0' 5' 10'
SCALE: 3/16"=1'-0"

MOTT MACDONALD FLORIDA LLC
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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
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PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

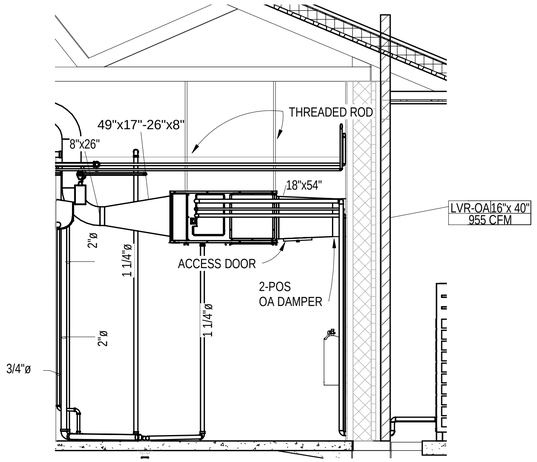
POLICE STATION CONDENSATE PIPING

SHEET NUMBER:

M1-12

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:22 AM

ISSUED FOR BIDS-AUGUST 2024

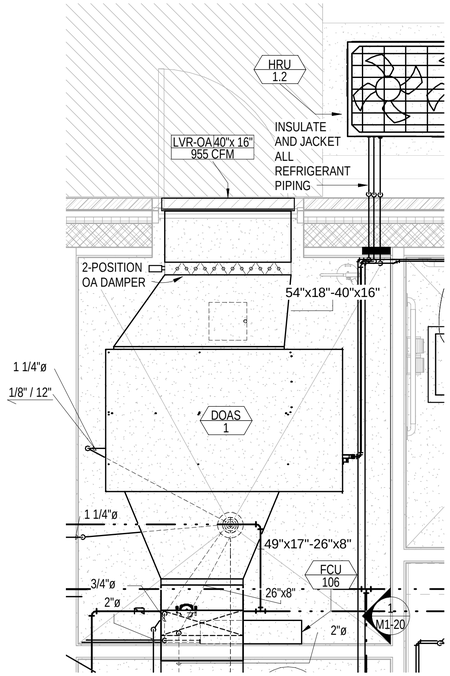


1 M1-20 POLICE STATION MECHANICAL ROOM LOOKING WEST

3/8" = 1'-0"

3' 0' 3' 6'

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



2 M1-20 POLICE STATION MECHANICAL ROOM ENLARGED

1/2" = 1'-0"

2' 0' 2' 4'

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

TRUE NORTH

PROJECT NORTH

PETERSON ENGINEERING INC.

(PROF. ENG #: 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

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Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

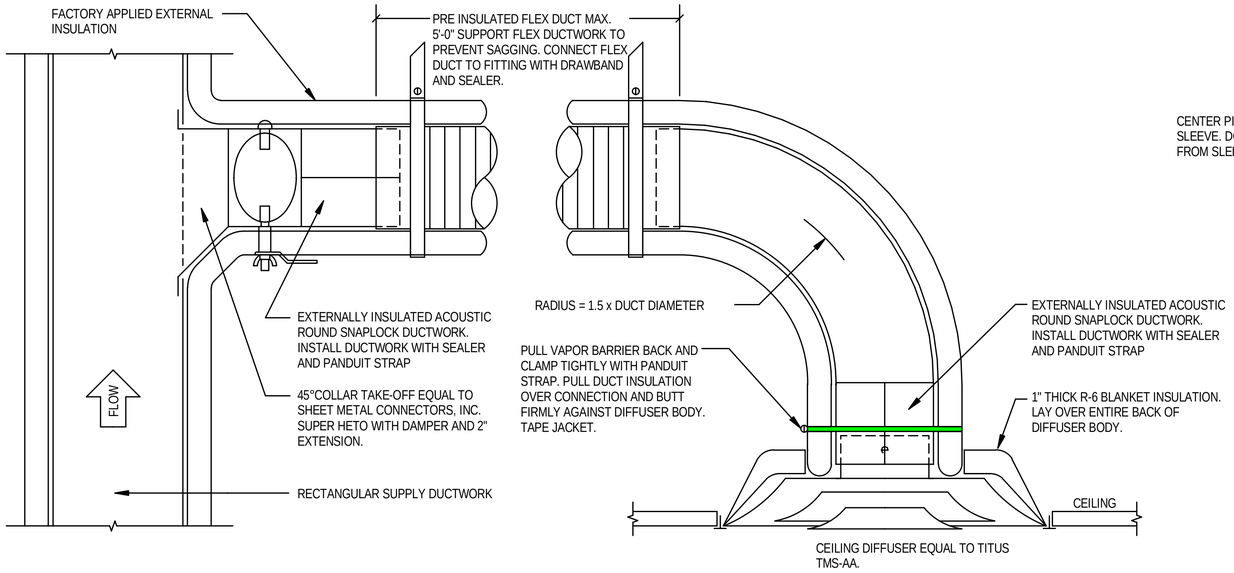
POLICE STATION MECH ROOM ELEVATION AND ENLARGED VIEW

SHEET NUMBER:

M1-20

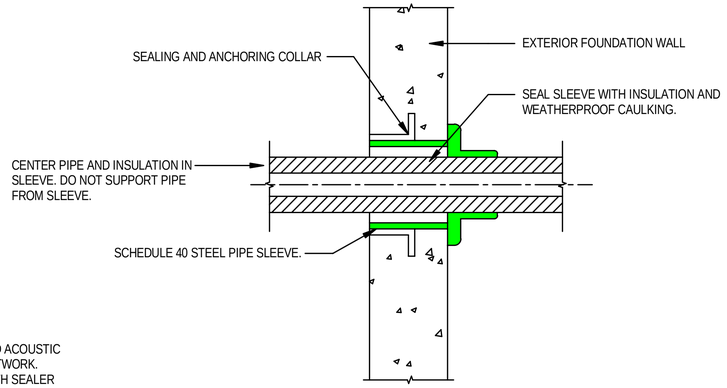
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:24 AM

ISSUED FOR BIDS-AUGUST 2024



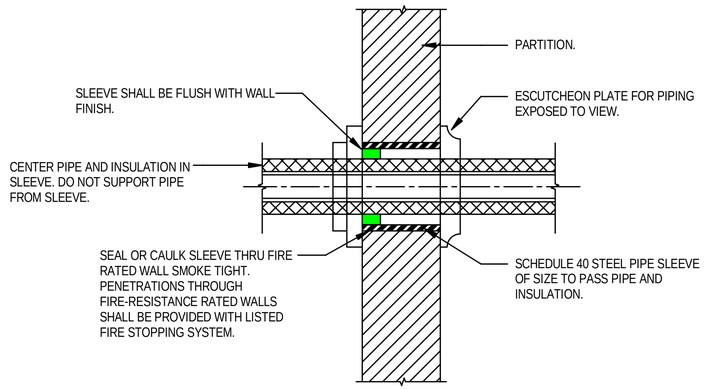
1 DUCT ROUND TAKEOFF TO DIFFUSER DETAIL

NOT TO SCALE



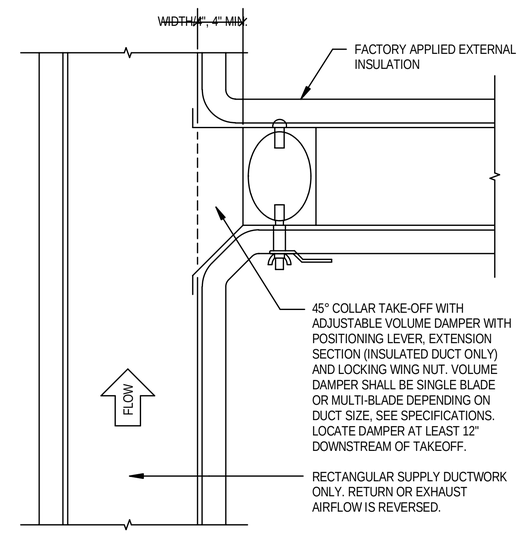
2 PIPE EXTERIOR PENETRATION DETAIL

NOT TO SCALE



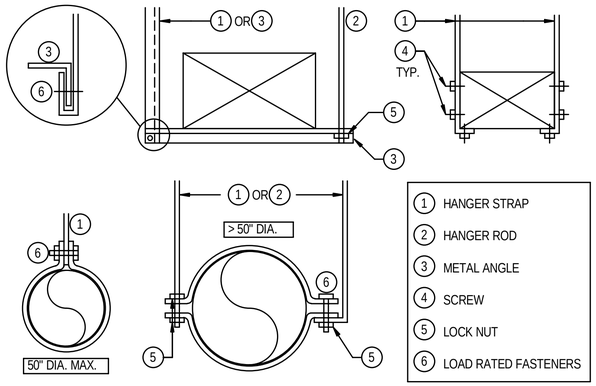
3 PIPE INTERIOR PENETRATION DETAIL

NOT TO SCALE



4 DUCT RECTANGULAR BRANCH TAKEOFF DETAIL

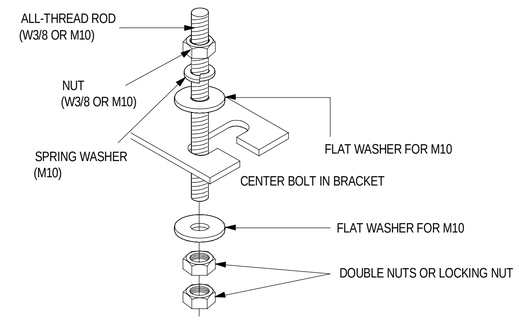
NOT TO SCALE



DUCTWORK SUPPORT	
DUCTWORK TYPE	MAX. HANGER SPACING
HORIZONTAL DUCTS LESS THAN 4 SQ FT	8 FT
HORIZONTAL DUCTS 4 TO 10 SQ FT	6 FT
HORIZONTAL DUCTS GREATER THAN 10 SQ FT	4 FT
VERTICAL ROUND DUCTS	12 FT
VERTICAL RECTANGULAR DUCTS	10 FT

5 DUCT HANGER DETAIL

NOT TO SCALE



6 TYPICAL EQUIPMENT HANGING DETAIL

NOT TO SCALE

PETERSON ENGINEERING INC.
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Telephone: (850) 763-9393
Architects AA - C000205
Engineers EB - 0000295
Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

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PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

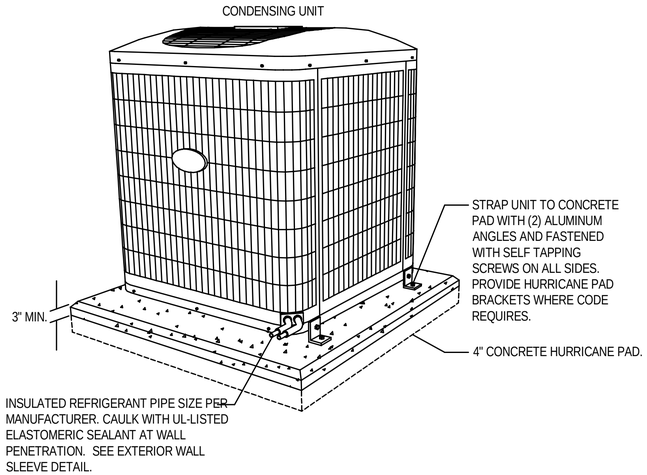
POLICE STATION DETAILS

SHEET NUMBER:

M1-50

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:24 AM

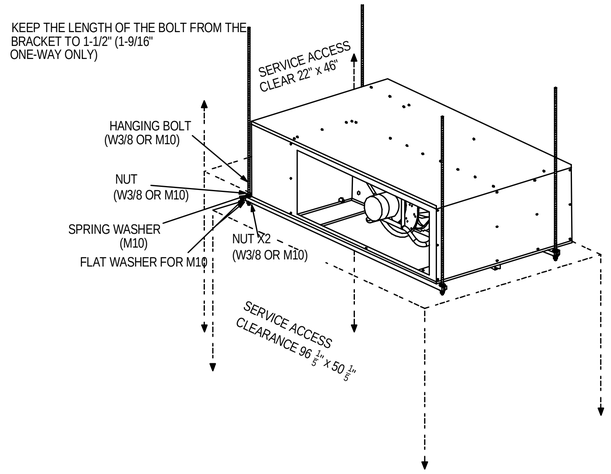
ISSUED FOR BIDS-AUGUST 2024



NOTE: SIZE CONCRETE PAD 6" LARGER THAN UNIT ON ALL SIDES.

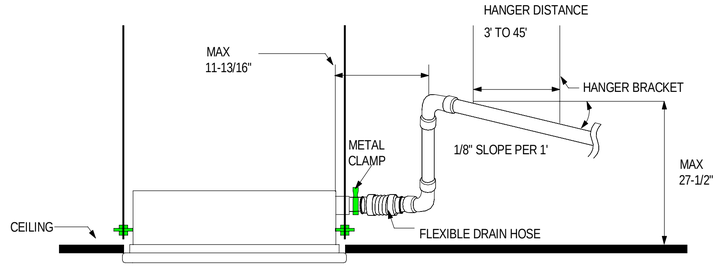
1 TYPICAL HEAT PUMP MOUNTING DETAIL

NOT TO SCALE



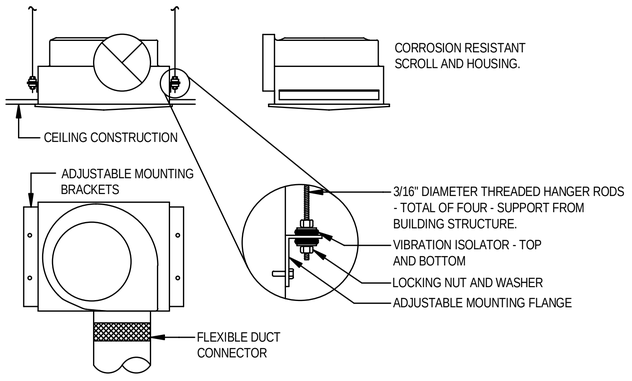
2 TYPICAL DOAS MOUNTING DETAIL

NOT TO SCALE



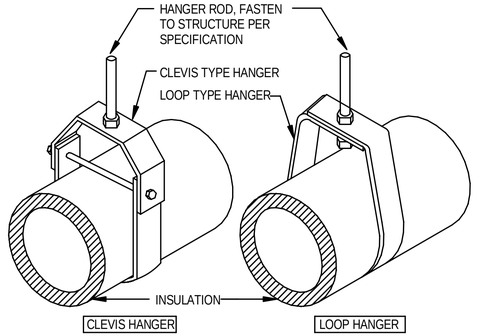
3 TYPICAL CASSETTE CONDENSATE PIPING DETAIL

NOT TO SCALE



4 CEILING EXHAUST FAN DETAIL

NOT TO SCALE



NOTE:
PIPE HANGARS SHALL BE LOCATED IAW MSS SP-69, TABLE 3 AND AT ALL CHANGES IN DIRECTION. HANGERS SHALL BE PAINTED. PIPE COVERING PROTECTION SADDLE.

5 PIPE HANGER DETAIL

NOT TO SCALE

PETERSON ENGINEERING INC.
(PROF. ENG. #: 3600)
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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

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SHEET TITLE:
POLICE STATION DETAILS CONT.

SHEET NUMBER:
M1-51

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:24 AM

ISSUED FOR BIDS-AUGUST 2024

POLICE STATION DOAS SCHEDULE

MARK	#	TYPE	AIR FLOW CFM	COOLING CAPACITY (MBH)	COOLING ENTERING AIR DB °F / WB °F	COOLING LEAVING AIR DB °F	HEATING CAPACITY (MBH)	HEATING ENTERING AIR DB °F	REHEAT LEAVING AIR DB °F	REFRIGERANT		FAN QTY	FAN DRIVE	FAN ESP	SOUND POWER DB(A)	ELECTRICAL				BASIS OF DESIGN		NOTES
										TYPE	EXPANSION DEVICE					RLA	MCA	MOCP	ELEC V/ф/hz	MAKE	MODEL	
DOAS	1	HORIZ. DEDICATED OUTSIDE AIR	955	86.5	93.0 / 78.0	51.0	46.4	25.0	70.0	R410A	EEV	1	DIRECT	1.5"	75	6	7.5	15	208-230/1/60	LG	ARND153DCR4	1

1. PROVIDE HOT GAS REHEAT

POLICE STATION VRF FCU SCHEDULE

MARK	#	TYPE	MAX AIR FLOW	Outside Air Flow	COOLING	HEATING	REFRIGERANT		FAN QTY	FAN DRIVE	FAN ESP	ELECTRICAL				BASIS OF DESIGN		NOTES
					Peak Cooling Load (MBH)	Peak Heating Load (MBH)	TYPE	Expansion Device				RLA	MCA	MOCP	V/ф/hz	MAKE	MODEL	
FCU	100	HORIZONTAL FAN COIL	370 CFM	0 CFM	11.7	11.1	R410A	EEV	1	DIRECT	0.25	1.6	2.0	15	208-230/1/60	LG	ARNU123M1A4	1,2,3,4,6,7,8,9,10
FCU	101	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.6	0.6	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	102	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.5	2.4	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	103	HORIZONTAL FAN COIL	395 CFM	0 CFM	8.5	4.7	R410A	EEV	1	DIRECT	0.25	0.25	0.32	15	208-230/1/60	LG	ARNU123M1A4	1,2,3,4,6,7,8,9,10
FCU	104	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	25 CFM	5.0	1.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	106	WALL MOUNTED	245 CFM	0 CFM	3.8	1.8	R410A	EEV	1	DIRECT	-	0.25	0.32	15	208-230/1/60	LG	ARNU053SJA4	1,2,3,4,6,7,8,9,10
FCU	107A	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	0 CFM	2.4	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	1,2,3,4,6,7,8,9
FCU	107B	2'x2' FOUR-WAY CEILING CASSETTE	305 CFM	0 CFM	10.6	0.8	R410A	EEV	1	DIRECT	-	.2	0.25	15	208-230/1/60	LG	ARNU123TRD4	1,2,3,4,6,7,8,9,10
FCU	109A	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	20 CFM	7.0	0.8	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES
FCU	109B	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	7.0	0.8	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	1,2,3,4,6,7,8,9,10
FCU	115	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	6.9	2.5	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	1,2,3,4,6,7,8,9,10
FCU	116A	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	0 CFM	5.2	2.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	1,2,3,4,6,7,8,9,10
FCU	116B	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	7.3	2.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	1,2,3,4,6,7,8,9,10
FCU	117	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	0.7	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	118	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.1	1.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	119	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	5.3	1.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	120	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.0	0.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	121	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.0	0.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	122	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.1	1.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	123A	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	25 CFM	4.6	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	123B	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.6	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	124	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.6	1.4	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	126	2'x2' FOUR-WAY CEILING CASSETTE	305 CFM	20 CFM	8.0	1.4	R410A	EEV	1	DIRECT	-	.2	0.25	15	208-230/1/60	LG	ARNU123TRD4	REFER TO ALL NOTES
FCU	127	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.7	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	128	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	5.2	2.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	129	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.2	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES

1. PROVIDE WALL MOUNTED HARD WIRED TEMPERATURE SENSOR.
2. PROVIDE UNIT WITH DRAIN PAN AND CONDENSATE LIFT PUMP AND SAFETY SWITCH.
3. PROVIDE UNIT WITH STANDARD FILTER.
4. PIPE ALL CONDENSATE FROM UNITS TO APPROPRIATE DRAIN LOCATION.
5. PROVIDE PTVK430 VENTILATION FLANGE.
6. ADJUST LOCATION OF UNITS AS REQUIRED FOR SERVICE AS RECOMMENDED BY MANUFACTURER.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT IN THE POWER WIRING SYSTEM THROUGH A CIRCUIT BREAKER. POWER WIRING IS FIELD SUPPLIED. WIRE SIZE IS SELECTED BASED ON THE LARGER MCA VALUE, AND MUST COMPLY WITH APPLICABLE LOCAL AND NATIONAL CODES.
8. CONTROLS CONTRACTOR SHALL PROVIDE COMMUNICATION CABLE FROM THE OUTDOOR UNIT USING THE DESIGNATED PATH IN THE VRF FAN COIL UNIT.
9. ALL FAN COILS, BRANCH SELECTOR BOXES, OUTDOOR UNITS, AND DEDICATED OUTSIDE AIR SYSTEMS SHALL COMMUNICATE WITH ONE CENTRAL CONTROLLER, WHICH SHALL COMMUNICATE WITH A CENTRAL STATION WHOSE LOCATION SHALL BE CHOSEN BY THE OWNER. THE CENTRAL STATION SHALL BE CAPABLE OF MONITORING AND SETPOINT CONTROL FOR ALL FOUR BUILDINGS' VRF SYSTEMS.
10. PROVIDE UNIT CAPABLE OF HEAT RECOVERY.

POLICE STATION OUTDOOR UNIT SCHEDULE

MARK	#	REFRIGERANT DATA				REFRIGERANT DATA				ELECTRICAL				BASIS OF DESIGN		NOTES
		MAX UNIT CAPACITY MBH	EER	IEER	COP AT 17°F AMBIENT	COMPRESSOR QTY	TYPE	EXPANSION DEVICE	FAN QTY	RLA	MCA	MOCP	V/ф/hz	MAKE	MODEL	
HRU	1.1	168	11.7	25.4	2.45	2	R410A	EEV	2	48.3	53.6	70	208-230/3/60	LG	ARUM168BTE5	REFER TO ALL NOTES
HRU	1.2	119.7	11.0	11.8	2.74	1	R410A	EEV	2	26.3	30.9	40	208-230/3/60	LG	ARUM121BTE5	REFER TO ALL NOTES

1. PROVIDE FRONT AND REAR WIND BAFFLES
2. PROVIDE AND SECURE TO 4" THICK CONCRETE HURRICANE PAD. PAD SHALL EXTEND 6" BEYOND HRU.
3. PROVIDE WITH INTEGRATED 120 VOLT RECEPTACLE.
4. PROVIDE WITH CORROSION RESISTANT COIL COATING.
5. PROVIDE WITH LOW AMBIENT CONTROLS KIT.
6. PROVIDE UNIT CAPABLE OF HEAT RECOVERY.

POLICE STATION BRANCH SELECTOR SCHEDULE

MARK	#	REFRIGERANT DATA		ELECTRICAL DATA				BASIS OF DESIGN	
		REFRIGERANT CIRCUITS	TYPE	RLA	MCA	MOCP	V/ф/hz	MAKE	MODEL
BS	1.1	8	R410A	0.09	0.12	15	208-230/1/60	LG	PRHR083A
BS	1.2	8	R410A	0.09	0.12	15	208-230/1/60	LG	PRHR083A
BS	1.3	2	R410A	0.06	0.08	15	208-230/1/60	LG	PRHR063A
BS	1.4	8	R410A	0.09	0.12	15	208-230/1/60	LG	PRHR083A

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
POLICE STATION VRF SYSTEM SCHEDULES

SHEET NUMBER:
M1-60

POLICE STATION EXHAUST FAN SCHEDULE

MARK	#	TYPE	CFM	ESP	MOTOR DATA					SOUND LEVEL SONNES	BASIS OF DESIGN		NOTES
					DRIVE	ELEC V/ф/Hz	RLA	MCA	MOCP		MAKE	MODEL	
EF	105	CEILING	70	0.25	DIRECT	115/1/60	0.19	0.24	15	1.9	GREENHECK	SP-B90	2,3,4,5,6,7
EF	108	CEILING	35	0.25	DIRECT	115/1/60	0.13	0.19	15	2.5	GREENHECK	SP-B50	1,3,4,5,6,7
EF	109	HOOD	150	0.25	DIRECT	120/1/60	0.65	0.85	15	6.0	BROAN	BCDF130SS	2,3,4,5,6,7
EF	111	CEILING	70	0.25	DIRECT	115/1/60	0.19	0.24	15	1.9	GREENHECK	SP-B90	1,3,4,5,6,7
EF	113	CEILING	65	0.25	DIRECT	115/1/60	0.19	0.24	15	2.0	GREENHECK	SP-B90	1,3,4,5,6,7
EF	114	CEILING	65	0.25	DIRECT	115/1/60	0.19	0.24	15	2.0	GREENHECK	SP-B90	1,3,4,5,6,7
EF	126	IN-LINE	50	0.25	BELT	115/1/60	5.8	7.2	15	6.2	GREENHECK	BSQ-70-4	1,3,4,5,6,7
EF	130	CEILING	70	0.25	DIRECT	115/1/60	0.19	0.25	15	1.9	GREENHECK	SP-B90	2,3,4,5,6,7

1. FAN SHALL BE ENABLED ANY TIME THE BUILDING IS OCCUPIED.
2. FAN SHALL BE ENABLED AND DISABLED THROUGH A SWITCH OR SENSOR IN THE SERVED SPACE.
3. CEILING EXHAUST FANS CONTROLLED BY OCCUPANCY SENSORS SHALL RUN AN ADJUSTABLE TIME LIMIT ONCE NO PERSON HAS BEEN DETECTED IN THE SPACE. THIS TIME LIMIT SHALL BE DETERMINED BY OWNER.
4. EXHAUST SHALL EXIT THROUGH GRILLE IN THE SOFFET.
5. PROVIDE VOLUME DAMPER.
6. PROVIDE BACKDRAFT DAMPER.
7. FAN SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER.

POLICE STATION LOUVER SCHEDULE

TYPE	#	AIR FLOW	SIZE		FREE AREA	AIR VELOCITY	PRESSURE DROP	BASIS OF DESIGN	
			INLET WIDTH	INLET HEIGHT				MAKE	MODEL
LVR-OA	106	955 CFM	40"	16"	3.11 FT²	307 FPM	0.02"	RUSKIN	ELF6375DXD

1. PROVIDE ALUMINUM BIRD SCREEN
2. LOUVER SHALL BE HURRICANE RATED AND MIAMI DADE COUNTY APPROVED.
3. SEE SPEC FOR FINISH

POLICE STATION EXHAUST GRILLE SCHEDULE

TYPE	#	AIR FLOW	SIZE		PRESSURE DROP	NOISE CRITERIA (dB)	BASIS OF DESIGN	
			INLET WIDTH	INLET HEIGHT			MAKE	MAKE
EG	105	70 CFM	6"	6"	0.01"	-	METALAIRE	RH
EG	108	90 CFM	6"	6"	0.02"	14	METALAIRE	RH
EG	109	240 CFM	12"	6"	0.03"	20	METALAIRE	RH
EG	111	110 CFM	6"	6"	0.02"	14	METALAIRE	RH
EG	113	100 CFM	6"	6"	0.02"	14	METALAIRE	RH
EG	114	100 CFM	6"	6"	0.02"	14	METALAIRE	RH
EG	126	250 CFM	6"	6"	0.04"	21	METALAIRE	RH
EG	130	70 CFM	6"	6"	0.01"	-	METALAIRE	RH

1. INSTALL IN SOFFIT

POLICE STATION AIR TERMINALS

TYPE	#	AIR FLOW	NECK SIZE	MODULE SIZE	NOISE CRITERIA (dB)	BASIS OF DESIGN	
						MAKE	MODEL
CD	111	50 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	113	50 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	114	50 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	115	50 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	116	65 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	124C	75 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	124D	75 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	125	50 CFM	4"ø	24" x 24"	-	TITUS	TMSA
RAG	102	370 CFM	12"x12"	24" x 24"	-	TITUS	350-RL
RAG	103	1700 CFM	22"x22"	24" x 24"	-	TITUS	350-RL
TG	108A	1700 CFM	22"x22"	24" x 24"	-	TITUS	350-RL
TG	108B	1700 CFM	22"x22"	24" x 24"	-	TITUS	350-RL
TG	130A	1700 CFM	22"x22"	24" x 24"	-	TITUS	350-RL
TG	130B	1700 CFM	22"x22"	24" x 24"	-	TITUS	350-RL

POLICE STATION SLOT DIFFUSER SCHEDULE

HVAC ID	#	AIR FLOW	LENGTH	# OF SLOTS	SLOT HEIGHT	BASIS OF DESIGN		NOTES
						MAKE	MODEL	
SWS	100A	185 CFM	2' - 0"	2	0' - 2"	TITUS	FL-20	REFER TO ALL NOTES
SWS	100B	185 CFM	2' - 0"	2	0' - 2"	TITUS	FL-20	REFER TO ALL NOTES
SWS	100C	120 CFM	2' - 0"	2	0' - 2"	TITUS	FL-20	REFER TO ALL NOTES

1. PROVIDE PLENUM BOX AND INLET DAMPER ACCESSORIES.
2. PROVIDE WITH SATIN ALUMINUM FINISH.

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SHEET TITLE:

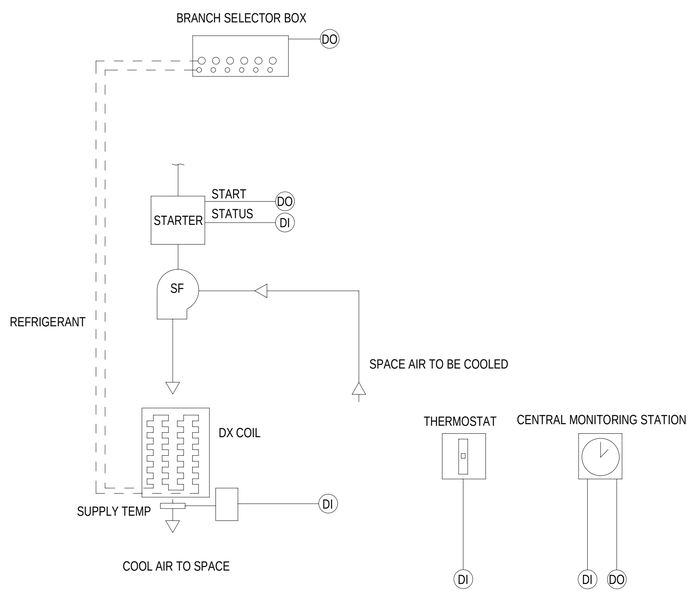
POLICE STATION HVAC AIR TERMINALS AND EQUIPMENT SCHEDULES

SHEET NUMBER:

M1-61

8/6/2024 8:32:25 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024



CONTROL SETPOINT TABLE	
CONTROL POINT:	SETPOINT:
COOLING SETPOINT:	72 °F (ADJ.)
HEATING SETPOINT:	68°F (ADJ)
NSB COOLING SETPOINT:	80°F (ADJ)
NSB HEATING SETPOINT:	55°F (ADJ.)

1. ALL FOLLOWING SETPOINTS SHALL BE ADJUSTABLE.

2. ALL FAN COIL UNITS SHALL REPORT TO ONE CENTRAL DDC MONITORING STATION. LIVE DATA FOR ALL OUTPUTS AND INPUTS IN THE ABOVE CONTROL DIAGRAM SHALL HAVE THE ABILITY TO BE MONITORED FROM THE CENTRAL DDC STATION.

3. UPON ENTERING THE OCCUPANCY TIME PERIOD, ALL FAN COIL FANS SHALL START. FANS SHALL NOT DISABLE UNTIL THE BUILDING ENTERS UNOCCUPIED MODE OR A FIRE ALARM SIGNAL IS PRESENT.

4. WHEN IN OCCUPIED MODE, THE FAN COIL SHALL CONTROL THE SPACAE TEMPERATURE TO BE WITHIN GHTE COOLING AND HEATING SETPOINTS.

5. WHEN SYSTEM IS IN UNOCCUPIED MODE, THE SYSTEM SHALL OCNTROL THE SPACE TEMPERATURE TO THE NIGHT SETBACK COOLING AND HEATING SETPOINTS.

6. WHEN STEPOINT IS MET AND THE UNIT IS IN UNOCCUPIED MODE, THE FAN SHALL STOP.

7. AT ANY TIME (OCCUPIED OR UNOCCUPIED) THE RH IS ABOVE 60% (ADJ.): DOAS SHALL START, ALL FAN COILS SHALL START, AND DOAS SHALL COOL OUTSIDE AIR TO 51°F AND REHEAT TO 70°F VIA HOT GAS REHEAT. THIS OPERATION SHALL CONTINUE UNTIL SPACE HUMIDITY REACHES 55% RH (ADJ.), AFTER WHICH FAN COILS AND DOAS SHALL RESUME THEIR PREVIOUS OPERATIONS BASED ON THE TIME OF DAY SCHEDULING.

8. ALL FAN COILS SHALL DISABLE UPON A SIGNAL FROM THE FIRE ALARM PANEL.

MECHANICAL CONTROLS DIAGRAM - VRF FAN COILS

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SHEET TITLE:

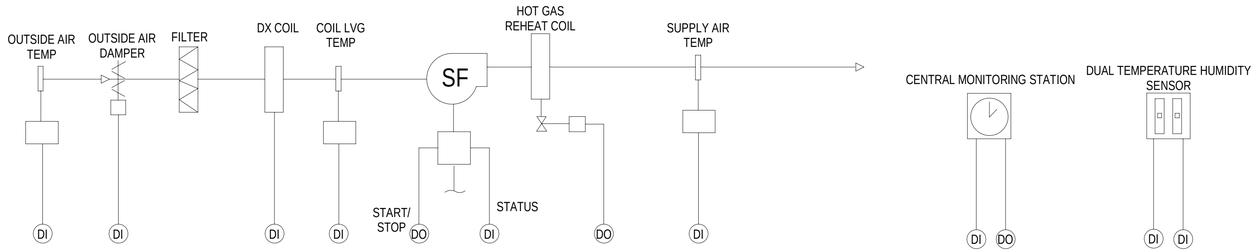
POLICE STATION FAN COIL CONTROLS

SHEET NUMBER:

M1-62

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:26 AM

ISSUED FOR BIDS-AUGUST 2024



1. ALL SETPOINTS BELOW SHALL BE ADJUSTABLE.

2. ALL DOAS UNITS SHALL REPORT TO ONE CENTRAL DDC MONITORING STATION. LIVE DATA FOR ALL OUTPUTS AND INPUTS IN THE ABOVE CONTROL DIAGRAM SHALL HAVE THE ABILITY TO BE MONITORED FROM THE CENTRAL DDC STATION.

3. DOAS SHALL BE SCHEDULED FROM THE CENTRAL DDC STATION.

4. DOAS SHALL ALWAYS BE ENABLED DURING THE OCCUPIED TIME FRAME.

5. WHEN ENABLED, THE TWO-POSITION OUTSIDE AIR DAMPER SHALL OPEN, THE FAN SHALL START, AND THE ASSOCIATED HEAT RECOVERY UNIT SHALL ENABLE.

7. WHEN THE BUILDING BECOMES UNOCCUPIED, ASSOCIATED HEAT RECOVERY UNIT SHALL DISABLE, DOAS FAN SHALL DISABLE, AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

8. OCCUPANCY SCHEDULE SHALL BE SET BY OWNER.

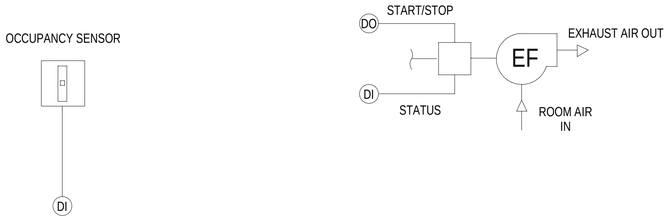
9. AT ANY TIME (OCCUPIED OR UNOCCUPIED) THE RH IS ABOVE 60% (ADJ.): DOAS SHALL START, ALL FAN COILS SHALL START, AND DOAS SHALL COOL OUTSIDE AIR TO 51°F AND REHEAT TO 70°F VIA HOT GAS REHEAT. THIS OPERATION SHALL CONTINUE UNTIL SPACE HUMIDITY REACHES 55% RH (ADJ.), AFTER WHICH FAN COILS AND DOAS SHALL RESUME THEIR PREVIOUS OPERATIONS BASED ON THE TIME OF DAY SCHEDULING.

10. DOAS SHALL BE INTERLOCKED WITH THE FIRE ALARM RELAY.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
COOLING COIL LEAVING AIR TEMPERATURE SETPOINT:	51°F
DISCHARGE AIR TEMPERATURE SETPOINT:	70°F
MAX SPACE HUMIDITY SETPOINT:	60%RH (ADJ.)

MECHANICAL CONTROL DIAGRAM - DOAS

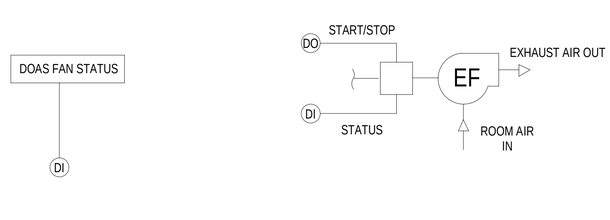


1. EXHAUST FANS START WITH THE INPUT FROM THE OCCUPANCY SENSOR IN THE SPACE.

2. EXHAUST FANS SHALL STOP AFTER NO PERSON HAS BEEN DETECTED IN THE SPACE FOR 5 CONSECUTIVE MINUTES.

MECHANICAL CONTROLS DIAGRAM - EXHAUST FAN OCCUPANCY SENSOR

EF-130



1. EXHAUST FANS START WHEN DOAS IS ENABLED.

2. EXHAUST FANS SHALL STOP WHEN DOAS IS DISABLED.

MECHANICAL CONTROLS DIAGRAM - INTERLOCKED EXHAUST FAN

EF-108,EF-111,EF-113,EF-114,EF-126

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SHEET TITLE:

POLICE STATION DOAS AND EXHAUST FAN CONTROLS

SHEET NUMBER:

M1-63

HVAC GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE HARD SUSPENDED CEILING, OR ACOUSTICAL CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. COORDINATE LOCATION WITH MECHANICAL INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. LOSS FOR FILTERS SHALL BE FOR FILTERS AT 50% LOADING. SOUND POWER LEVEL OF THE FANS MUST NOT EXCEED 85 dBA WHEN TESTED ACCORDING TO AMCA STANDARDS.
5. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
6. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES. DIFFUSER SHALL MINIMIZE CEILING SMUDGING.
7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
9. INSTALL A COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
10. CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
11. INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
12. THE APPROXIMATE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN WHERE APPLICABLE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND PROTECT BEFORE COMMENCING WORK.
13. COORDINATE EQUIPMENT CLEARANCES (AS RECOMMENDED BY MANUFACTURER) WITH ALL DISCIPLINES BEFORE INSTALLATION.
14. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT, VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
15. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT, MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 IN. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 IN. ON ALL SIDES.
16. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT.
17. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DECTECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK THAT REQUIRE SERVICE AND/OR INSPECTION. PROVIDE DUCT ACCESS DOORS AT REGULAR INTERVALS TO FACILITATE THE CLEANING OF DUCT SYSTEMS.
18. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UPSTREAM AND DOWNSTREAM AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
19. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
20. LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
21. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH AN APPROVED PRODUCT.
22. ALL EQUIPMENT REQUIRING CONDENSATE DRAIN LINES SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, TRAPPED PER MANUFACTURERS DETAILS FOR ACTUAL EQUIPMENT AND STATIC PRESSURE. CONDENSATE SHALL BE PIPED TO THE NEAREST DRAIN AS INDICATED. PROVIDE CONDENSATE PUMPS AS REQUIRED.
23. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
24. THERMOSTATS INDICATED ADJACENT TO DOORWAYS SHALL BE LOCATED WITHIN 18" OF JAMB AT LOCATIONS WITH LIGHT SWITCHES, LOCATE THERMOSTAT SUCH THAT LIGHT SWITCH IS BETWEEN THERMOSTAT AND JAMB. VERIFY THERMOSTAT LOCATION WITH SYSTEM FURNITURE LAYOUT PRIOR TO INSTALLING THERMOSTATS.
25. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
26. PROVIDE ALL 90-DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
27. LAUNDRY EXHAUST SHALL BE OF UNVANED SMOOTH RADIUS CONSTUCTION WITH A RADIUS EQUAL TO 1-1/2" TIMES THE WIDTH OF THE DUCT.
28. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING MOUNTED EQUIPMENT AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
29. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER DIMENSIONS INDICATED DOES NOT INCLUDE FRAME OR FLANGES. APPROXIMATE ROUGH OPENING IN WALL ASSEMBLY IS INDICATED ON ARCHITECTURAL.
30. AVOID ROUTING DUCTWORK AND MECHANICAL EQUIPMENT OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND DUCT INSULATION TO TOP OF LIGHTS. PROVIDE CLEARANCE AND ACCESS ALL AROUND AND BELOW MECHANICAL EQUIPMENT AS REQUIRED FOR ROUTINE MAINTENANCE.
31. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
32. ALL AIR INTAKES OPENING TO EXTERIOR SHALL HAVE A MIN 10'-0" CLEARANCE FROM ANY EXHAUST OPENING TO PREVENT RECIRCULATION.
33. MOUNT DUCTWORK AS HIGH AS POSSIBLE WHERE EXPOSED, UNLESS OTHERWISE NOTED.
34. EXPOSED DUCTWORK SHALL BE DOUBLE-WALL INSULATED WITH A SOLID LINER. PROVIDE GALVANIZED FINISH SUITABLE FOR PAINTING. PRIME AND PAINT TO COLOR SELECTED BY ARCHITECT.
35. ALL ROUND FLEXIBLE DUCT SHALL BE FACTORY PREINSULATED THERMOFLEX OR EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
36. ALL SUPPLY AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. (COMMERCIAL DESIGN)
37. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
38. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
39. EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
40. KITCHEN EXHAUST AIR DUCTWORK AND GREASE LADEN EXHAUST DUCT SHALL BE CONSTRUCTED IAW NFPA 96. HORIZONTAL DUCT RUNS SHALL BE SLOPED BACK TOWARDS HOOD. DUCTWORK SHALL BE STAINLESS STEEL FULLY WELDED LIQUID TIGHT CONSTRUCTION, PROVIDE ACCESS DOORS PER NFPA 96. TRANSITION AND MAKE FINAL CONNECTION TO EXHAUST COLLAR WITH DUCT SIZED PER COLLAR DIMENSIONS ON KITCHEN EQUIPMENT DRAWINGS. APPLY 2HR RATED UL LISTED GREASE DUCT INSULATION.

HVAC LEGEND

- SUPPLY AIR DUCT UP
- SUPPLY AIR DUCT DOWN
- RETURN AIR DUCT UP
- RETURN AIR DUCT DOWN
- EXHAUST AIR DUCT UP
- EXHAUST AIR DUCT DOWN
- WxH — DOUBLE WALL DUCTWORK. FIRST FIGURE IS SIDE SHOWN.
- WxH — INTERNALLY LINED DUCTWORK. FIRST FIGURE IS SIDE SHOWN.
- WxH — RECTANGULAR DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. FIRST FIGURE IS SIDE SHOWN.
- W/H — OVAL DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. FIRST FIGURE IS SIDE SHOWN.
- Ø — ROUND SPIRAL SEAM GALVANIZED STEEL DUCTWORK. SIZE SHOWN IS SHEET METAL DIAMETER.
- FACTORY FABRICATED/INSULATED FLEXIBLE ROUND DUCT, SAME SIZE AS OUTLET DIAMETER.
- Ø Ø — ROUND BRANCH DUCT TAKEOFF FROM ROUND DUCT MAIN. BRANCH DUCT SHALL BE ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK OR FLEXIBLE ROUND DUCT. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER.
- WxH Ø — ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR DUCT MAIN. BRANCH DUCT SHALL BE ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK OR FLEXIBLE ROUND DUCT. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER.
- WxH WxH — RECTANGULAR BRANCH DUCT TAKE OFF FROM RECTANGULAR DUCT MAIN WITH 45° COLLAR AND MANUAL VOLUME DAMPER.
- SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH DOUBLE WALL TURNING VANES.
- LONG RADIUS ELBOW IN RECTANGULAR DUCT.
- RECTANGULAR TO ROUND DUCT TRANSITION.
- RECTANGULAR TO RECTANGULAR DUCT TRANSITION.
- AUTOMATIC OPPOSED BLADE DAMPER
- AUTOMATIC PARALLEL BLADE DAMPER
- FD — MOTORIZED FIRE DAMPER
- ROUND MANUAL VOLUME DAMPER
- RECTANGULAR MANUAL VOLUME DAMPER

- 24"x24" FACE CEILING DIFFUSER EQUAL TO "TITUS TMSA-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- 12"x12" FACE CEILING DIFFUSER EQUAL TO "TITUS TMSA-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- CEILING DIFFUSER EQUAL TO "TITUS 250-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- RETURN AIR CEILING GRILLE EQUAL TO "TITUS 350FL". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID.
- EXHAUST AIR GRILLE EQUAL TO "TITUS 350FL". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID.
- SIDE WALL MOUNTED SUPPLY REGISTER, EQUAL TO "TITUS FL-25 ".
- SIDE WALL MOUNTED RETURN REGISTER, EQUAL TO "TITUS 350FL".
- SIDE WALL MOUNTED EXHAUST REGISTER, EQUAL TO "TITUS 350FL".
- PIPE UP
- PIPE DN
- PIPE TRANSITION
- UNION
- 1/8" / 12" — PIPE SLOPE AND SLOPE DIRECTION

SYMBOLS

- XXX — THERMOSTAT WITH UNIT NUMBER
- T — THERMOSTAT
- H — HUMIDISTAT
- NO2 — NITROGEN DIOXIDE SENSOR
- CO — CARBON MONOXIDE SENSOR
- AI — ANALOG IN
- AO — ANALOG OUT
- DI — DIGITAL IN
- DO — DIGITAL OUT
- 1 — ROUND SHEET NOTE

DETAIL NUMBER 1 / SHEET NUMBER A101 — View Name 1/8" = 1'-0"

DETAIL NUMBER 1 / SHEET NUMBER A101 / REFERENCE SHEET R101 — View Name 1/8" = 1'-0"

SECTION NUMBER 1 / SHEET NUMBER A101

SECTION NUMBER 1 / SHEET NUMBER A101 / REFERENCE SHEET R101

EQUIPMENT ABBREVIATION AHU / EQUIPMENT MARK #

DIFFUSER / GRILLE TAG

INDICATES QTY — TYP. OF 2 — INDICATES DUCT INLET SIZE

INDICATES TYPE — CD 8"ø 200 CFM — INDICATES AIR FLOW

LOUVER TAG

INDICATES DUCT DIMENSIONS

INDICATES TYPE — LVR-OA 10W"X32H" 1000 CFM — INDICATES AIR FLOW

FAN COIL OUTSIDE AIR TAG

INDICATES QTY — TYP OF 2

EQUIPMENT MARK AND # — FCU 333A 99 CFM

OUTSIDE AIR SUPPLIED

PETERSON ENGINEERING INC.
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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

CITY HALL HVAC LEGENDS & GENERAL NOTES

SHEET NUMBER:

M2-00

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:27 AM

ISSUED FOR BIDS-AUGUST 2024

HVAC ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
ACD-TP	AUTOMATIC CONTROL DAMPER, TWO POSITION
AD	ACCESS DOOR
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR-HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AW	AIR WASHER
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BG	BOTTOM GRILLE
BHP	BRAKE HORSEPOWER
BR	BOTTOM REGISTER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CG	CEILING GRILLE
CM	CARBON MONOXIDE
CO	CLEAN OUT
COMP	COMPRESSOR UNIT
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
D	DAMPER - AUTOMATIC
Db	DRY-BULB TEMPERATURE
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
DXCC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
ENT	ENTERING
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
F	FAHRENHEIT
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
GA	GAUGE
GH	GAS HEATER
GPR	GAS PRESSURE REGULATOR
GS	GALVANIZED STEEL
HC	HEATING COIL
HD	HOOD
HOA	HAND/OFF/AUTOMATIC
HP	HORSEPOWER
HRU	HEAT RECOVERY UNIT
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IN	INCHES
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IS	INSECT SCREEN
KW	KILOWATT
KWH	KILOWATT HOUR
L	LITER
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FOOT (FEET)
LH	LATENT HEAT
LSD	LINEAR SLOT DIFFUSER
LVG	LEAVING
LVR	LOUVER
MAX	MAXIMUM
MBH	1,000 BTU/HOUR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NTS	NOT TO SCALE
NSB	NIGHT SETBACK
OA	OUTSIDE AIR
OAD	OUTDOOR AIR DAMPER
OAG	OUTSIDE AIR GRILLE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PG	PRESSURE GAGE
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PPD	PINTS PER DAY
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RAT	RETURN AIR TEMPERATURE
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCR	SILICON CONTROLLED RECTIFIER
SD	SUPPLY AIR DIFFUSER
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SI	SQUARE INCHES
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TG	TRANSFER GRILLE
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
UC	UNDER CUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATOR
VSD	VARIABLE SPEED DRIVE
VUH	VERTICAL UNIT HEATER
W	WATTS
WB	WET-BULB (TEMPERATURE)
WEF	WALL EXHAUST FAN
YR	YEAR

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

SHEET TITLE:
HVAC ABBREVIATIONS

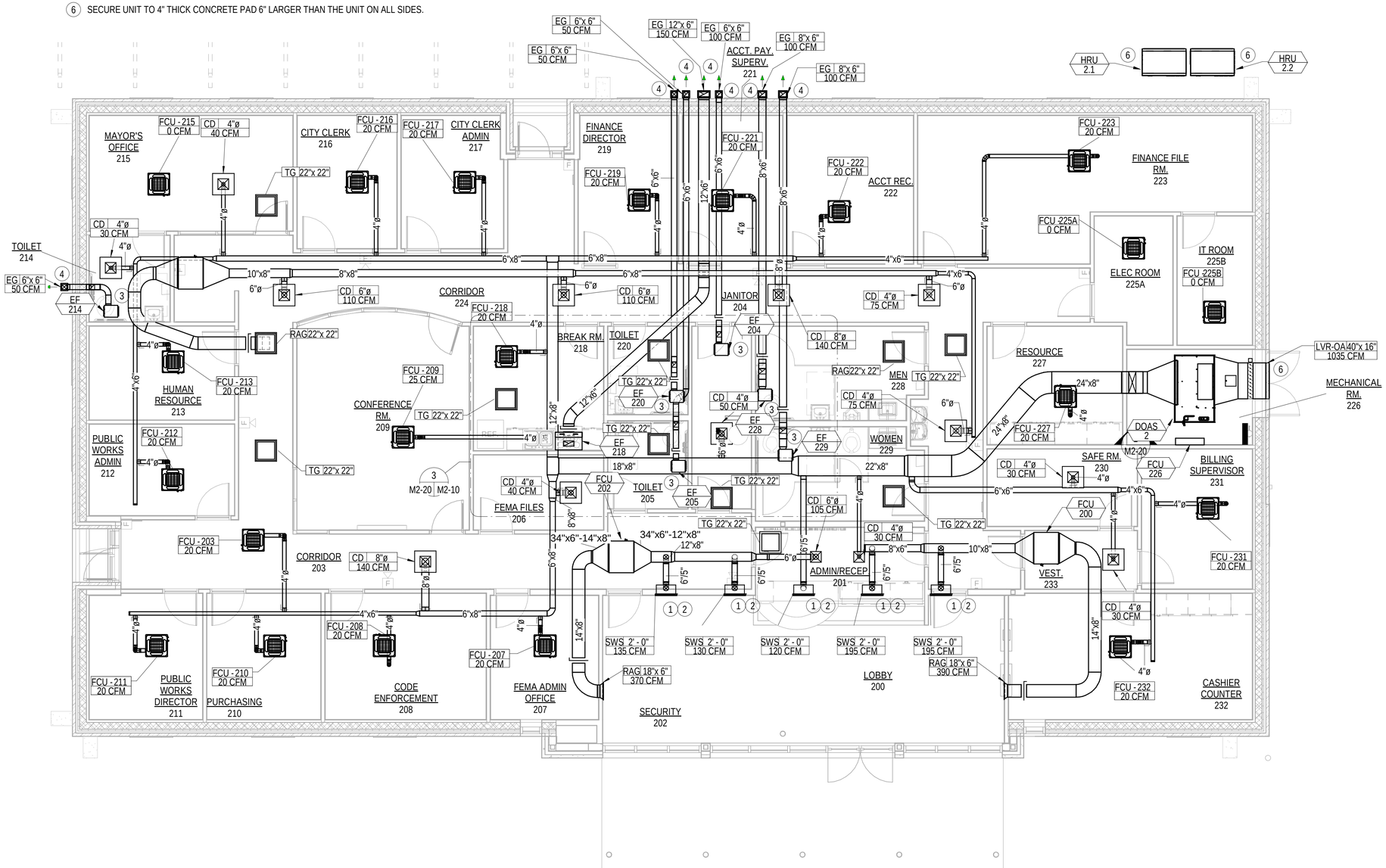
SHEET NUMBER:
M2-01

NOTES

1. ELEVATE SLOT DIFFUSERS BOTTOM EDGE TO BE 1' ABOVE WALL OPENING.
2. INSTALL WITH PLENUM BOX AND VOLUME DAMPER ACCESSORIES.
3. INTERLOCK EXHAUST FAN WITH DOAS.
4. ROUTE DUCT ABOVE EXTERIOR WALL AND INSTALL GRILLE IN SOFFIT.
5. CENTER OUTSIDE AIR LOUVER IN TRANSOM OF MECHANICAL ROOM DOOR.
6. SECURE UNIT TO 4" THICK CONCRETE PAD 6" LARGER THAN THE UNIT ON ALL SIDES.

GENERAL NOTES

1. SEE FAN COIL SCHEDULE FOR CASSETTE AND WALL MOUNTED FAN COIL DISCHARGE AIR FLOWS.



1 M2-10 CITY HALL HVAC - NEW WORK

3/16" = 1'-0"

TRUE NORTH PROJECT NORTH

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(850) 434-0513
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5' 0' 5' 10'
SCALE: 3/16"=1'-0"

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PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

CITY HALL HVAC NEW WORK

SHEET NUMBER:

M2-10

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:31 AM

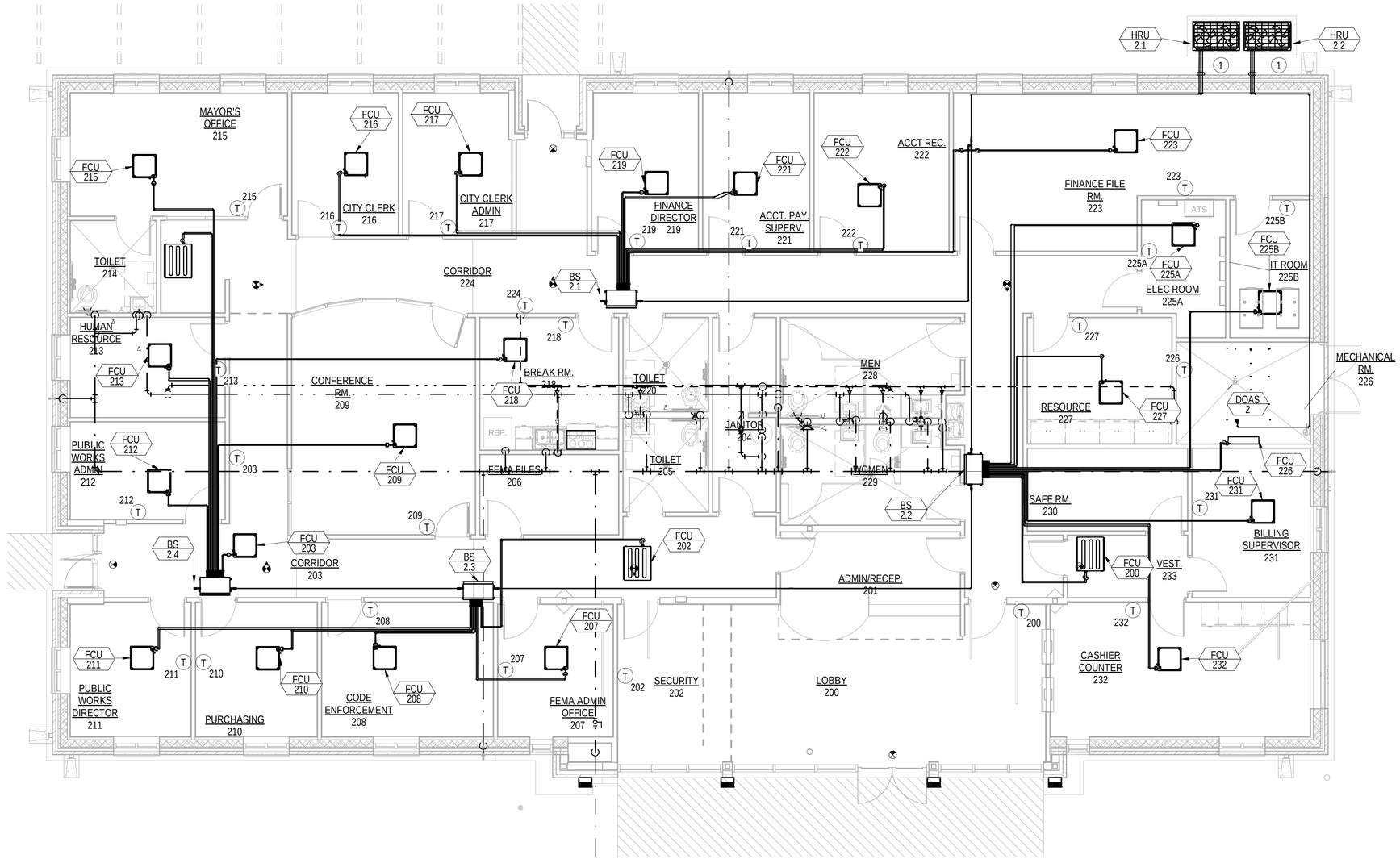
ISSUED FOR BIDS-AUGUST 2024

NOTES

1. MAINTAIN MANUFACTURER'S CLEARANCE REQUIREMENTS.

GENERAL NOTES

1. PLACE THERMOSTATS IN AREA AWAY FROM HEAT PRODUCING EQUIPMENT.
2. LOCATE THERMOSTATS 4'6" ABOVE FINISHED FLOOR.
3. THERMOSTATS IN CLOSE PROXIMITY TO A SWINGING DOOR SHALL BE INSTALLED ON THE SIDE OPPOSITE THE DOOR HINGES.
4. FINAL PIPE CONFIGURATION WILL VARY WITH EQUIPMENT MANUFACTURER. SEE MANUFACTURER INSTALLATION MANUAL FOR PIPE SIZES AND ACCESSORIES.
5. SUBMIT SHOP DRAWINGS FROM THE MANUFACTURER'S EQUIPMENT REPRESENTATIVE SHOWING FINAL LAYOUT AND ALL ACCESSORIES, PIPE SIZES, AND SYSTEM CONTROLS.



TRUE NORTH PROJECT NORTH

1 M2-11 CITY HALL REFRIGERANT PIPING

3/16" = 1'-0"

PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
(850) 434-0513
PEI 21173

5' 0' 5' 10'
SCALE: 3/16"=1'-0"

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PROJECT MANAGER: G. PETERSON
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SHEET TITLE:

CITY HALL REFRIGERANT PIPING

SHEET NUMBER:

M2-11

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:34 AM

ISSUED FOR BIDS-AUGUST 2024

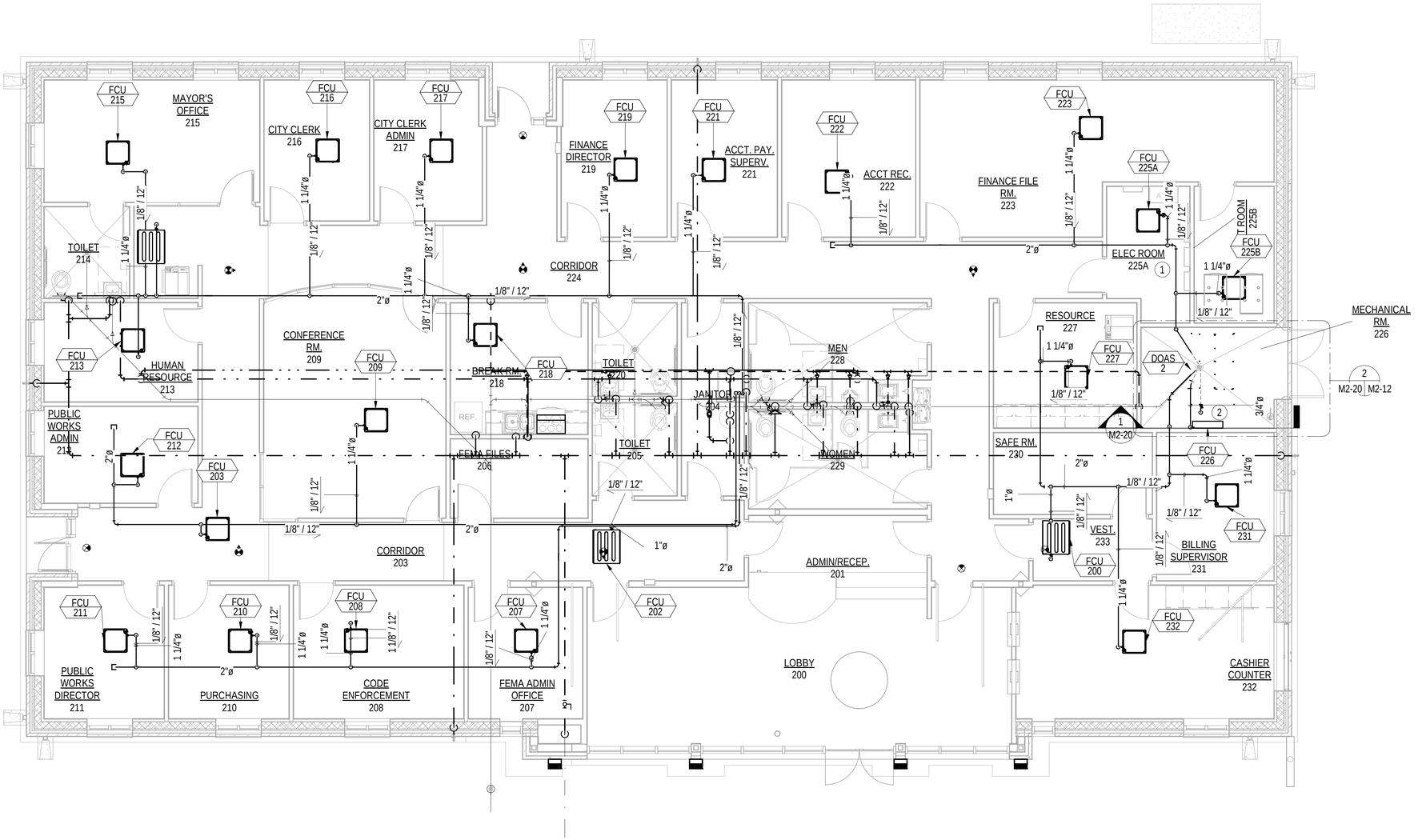
GENERAL NOTES

1. MAXIMUM PIPE ELEVATION FROM BOTTOM OF FAN COILS IS 27-1/2".
2. ALL HORIZONTAL RUNS SHALL SLOPE DOWN 1/8" PER 1' TOWARDS DRAIN LOCATIONS.
3. EACH FAN COIL SHALL HAVE AN INVERTED TRAP.
4. EACH CONNECTION OF AN INVERTED TRAP TO A MAIN PIPE SHALL BE ON THE TOP HALF OF THE MAIN PIPE.

KEY NOTES

(1) ROUTE PIPING TO COMPLY WITH NEC 110.26(E)

(2) PROVIDE CONDENSATE TRAP AS SPECIFIED BY DOAS MANUFACTURER.



TRUE NORTH | PROJECT NORTH

1 M2-12 CITY HALL CONDENSATE

3/16" = 1'-0"

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5' 0' 5' 10'
SCALE: 3/16"=1'-0"

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SHEET TITLE:

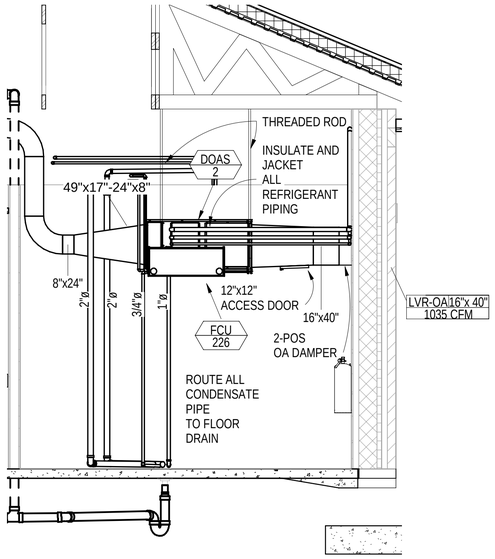
CITY HALL CONDENSATE PIPING

SHEET NUMBER:

M2-12

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:36 AM

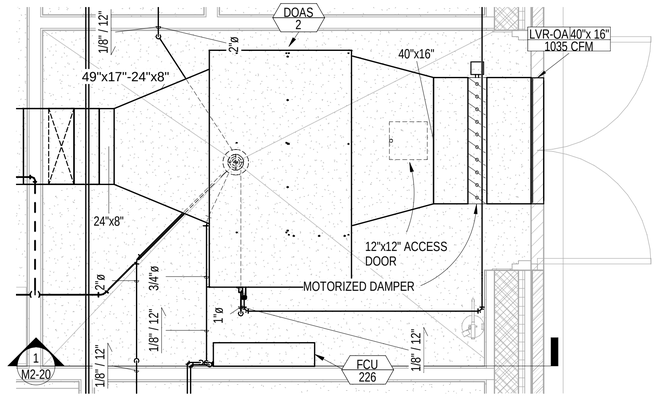
ISSUED FOR BIDS-AUGUST 2024



1 M2-20 — CITY HALL MECHANICAL ROOM LOOKING WEST

3/8" = 1'-0"

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

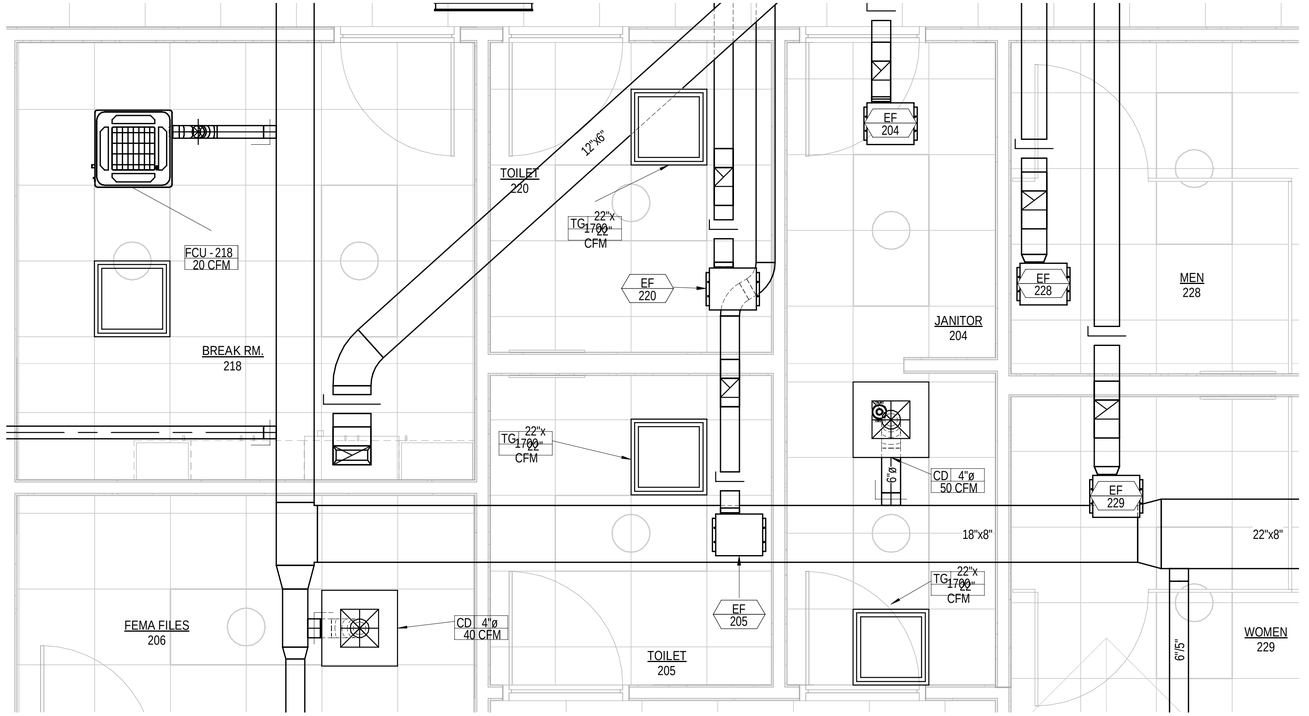


2 M2-20 — CITY HALL MECHANICAL ROOM ENLARGED

1/2" = 1'-0"

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

TRUE NORTH / PROJECT NORTH



3 M2-20 — CITY HALL CENTER AREA

1/2" = 1'-0"

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

TRUE NORTH / PROJECT NORTH

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Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

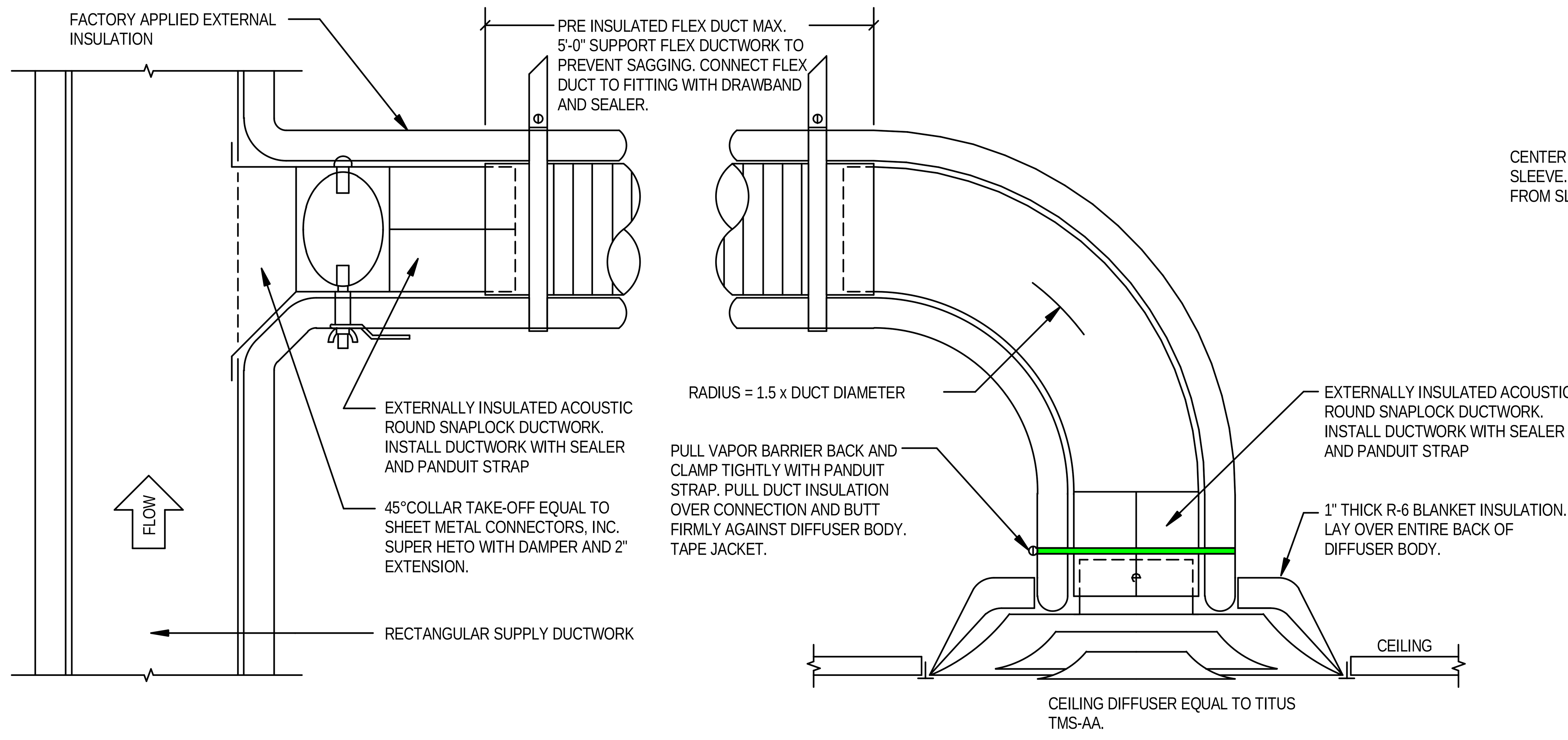
CITY HALL MECH ROOM ELEVATION AND ENLARGED VIEWS

SHEET NUMBER:

M2-20

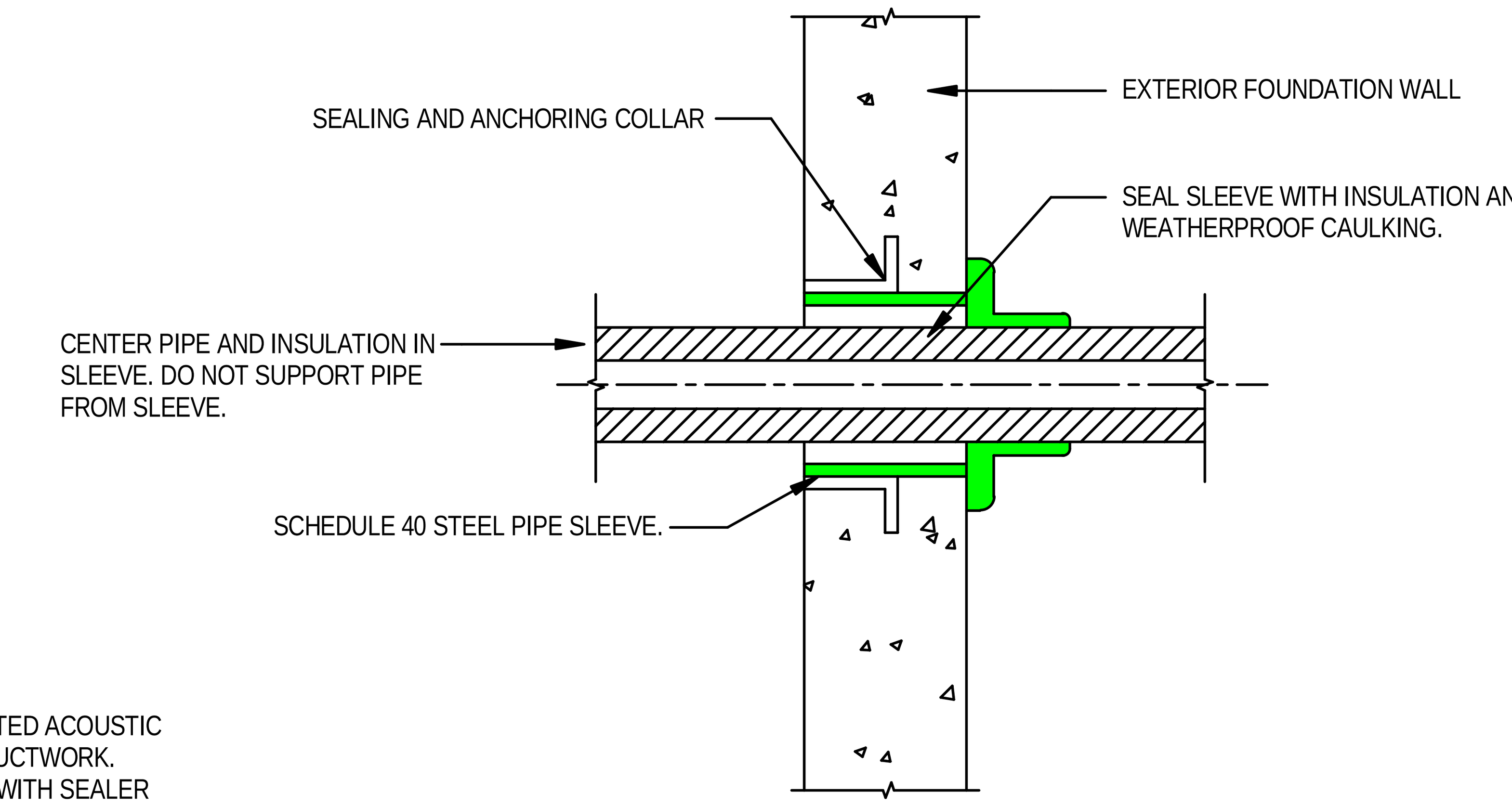
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:38 AM

ISSUED FOR BIDS-AUGUST 2024



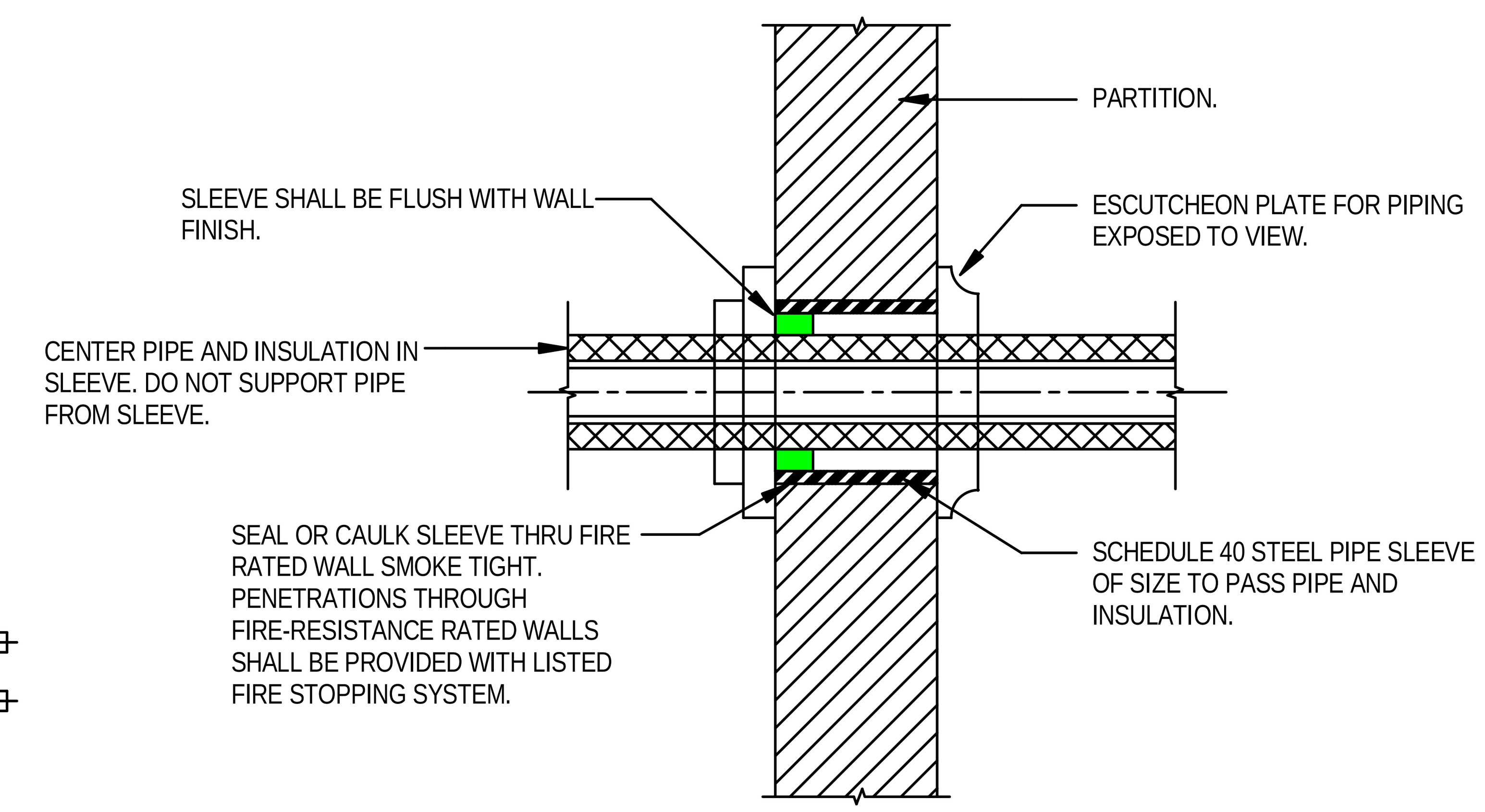
1 DUCT ROUND TAKEOFF TO DIFFUSER DETAIL

NOT TO SCALE



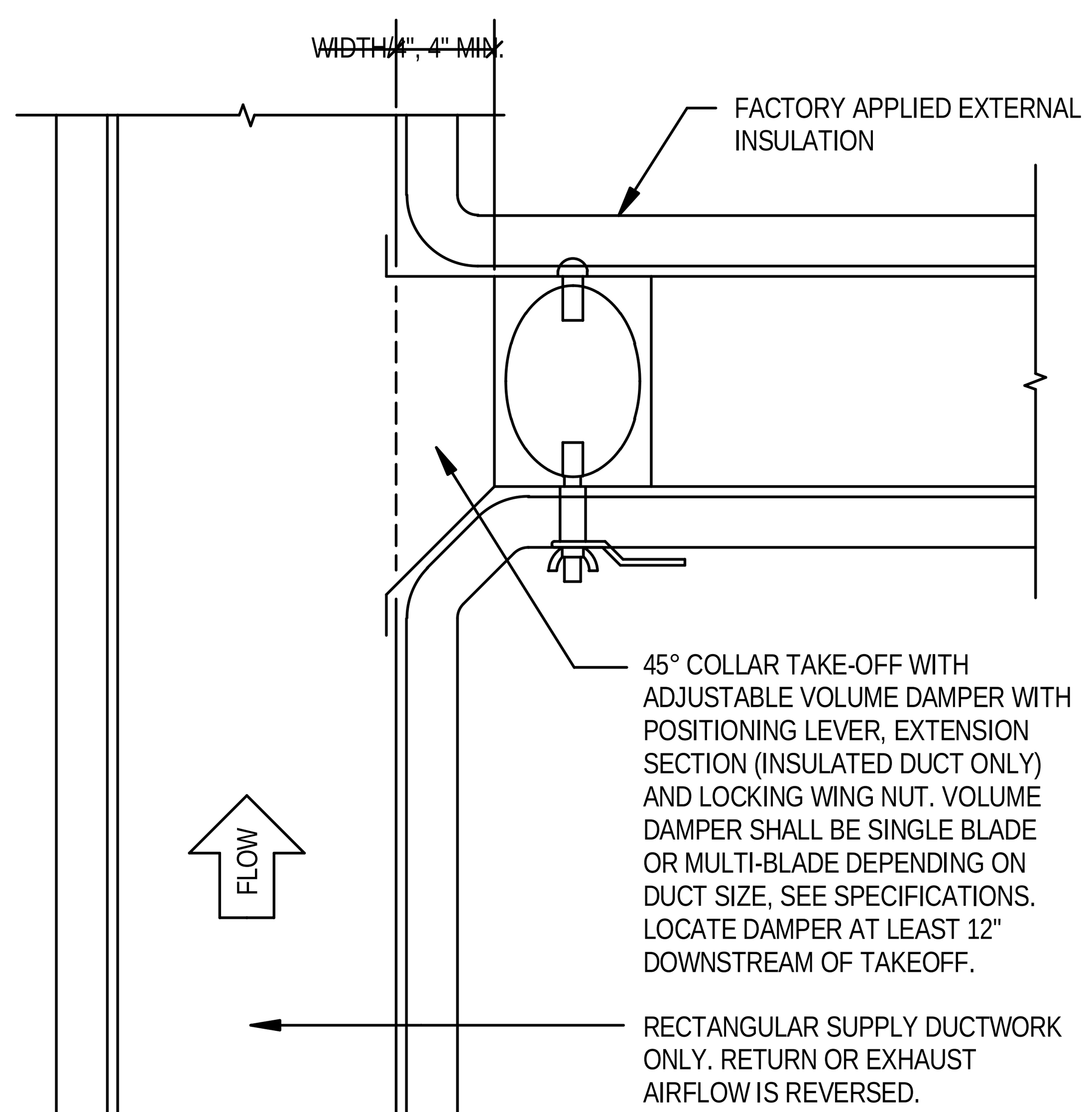
2 PIPE EXTERIOR PENETRATION DETAIL

NOT TO SCALE



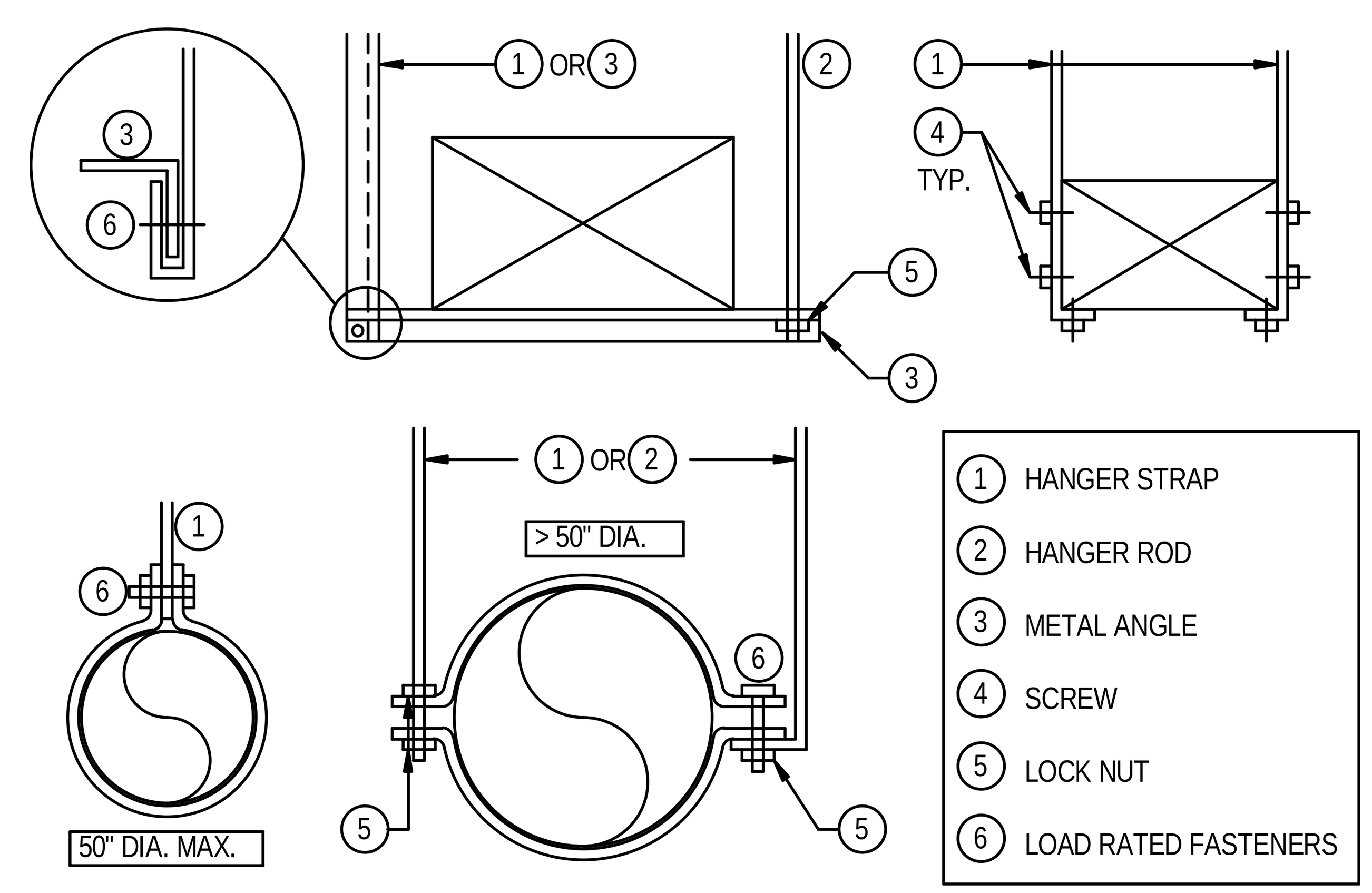
3 PIPE INTERIOR PENETRATION DETAIL

NOT TO SCALE



4 DUCT RECTANGULAR BRANCH TAKEOFF DETAIL

NOT TO SCALE

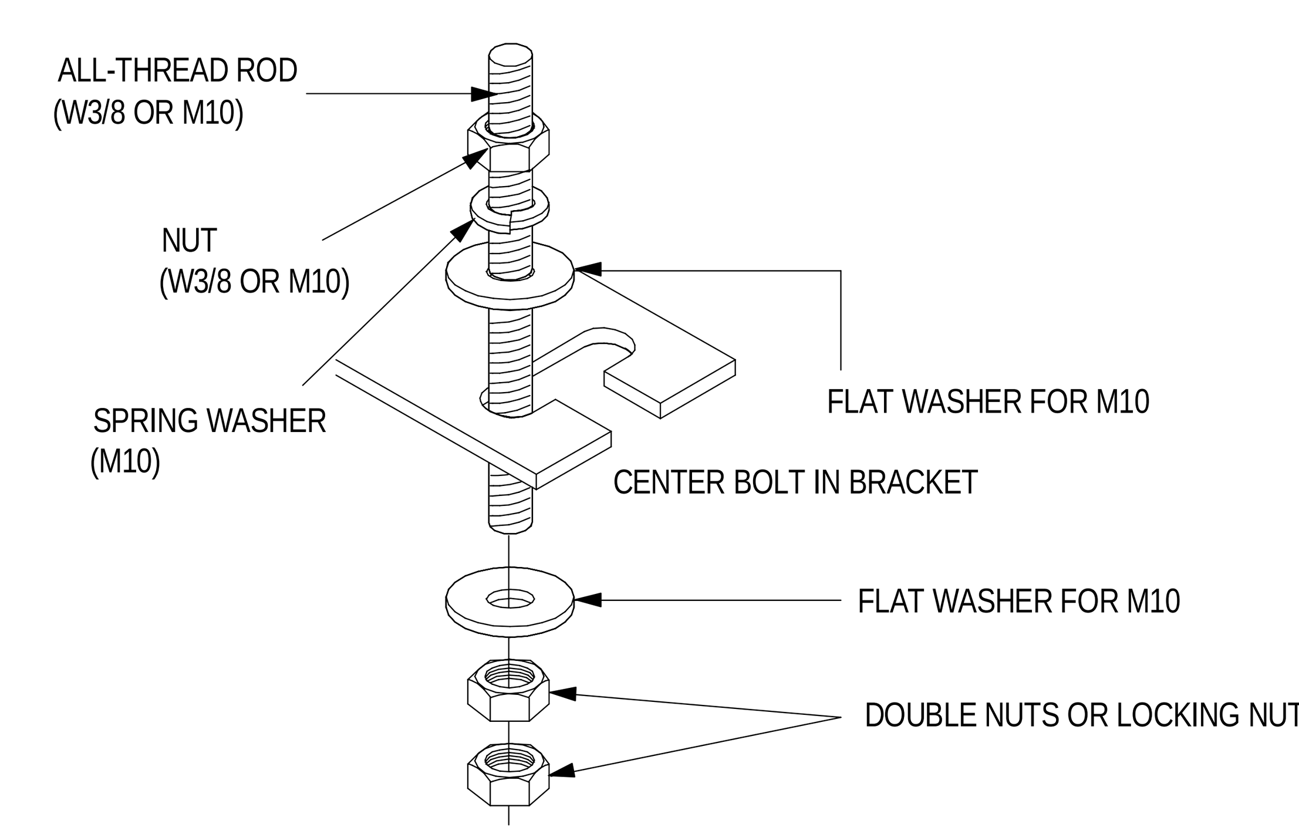


DUCTWORK SUPPORT

DUCTWORK TYPE	MAX. HANGER SPACING
HORIZONTAL DUCTS LESS THAN 4 SQ FT	8 FT
HORIZONTAL DUCTS 4 TO 10 SQ FT	6 FT
HORIZONTAL DUCTS GREATER THAN 10 SQ FT	4 FT
VERTICAL ROUND DUCTS	12 FT
VERTICAL RECTANGULAR DUCTS	10 FT

5 DUCT HANGER DETAIL

NOT TO SCALE



6 TYPICAL EQUIPMENT HANGING DETAIL

NOT TO SCALE

PETERSON ENGINEERING INC.
(PROF. ENG. # 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
(850) 434-0513
PEI 21173

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX
City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DATE	REV.	DESCRIPTION

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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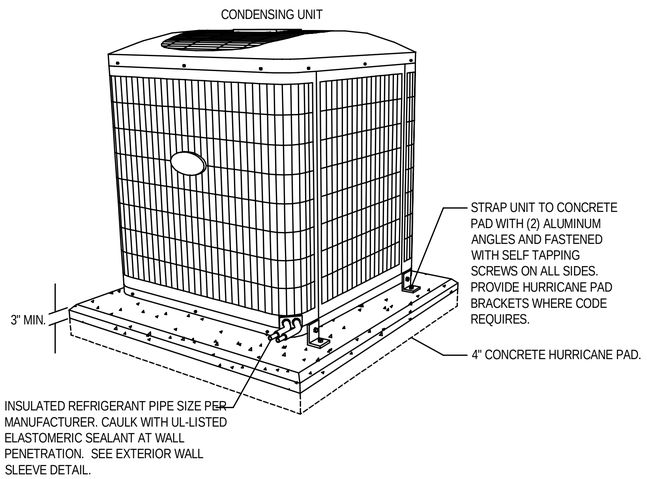
SHEET TITLE:
CITY HALL DETAILS

SHEET NUMBER:
M2-50

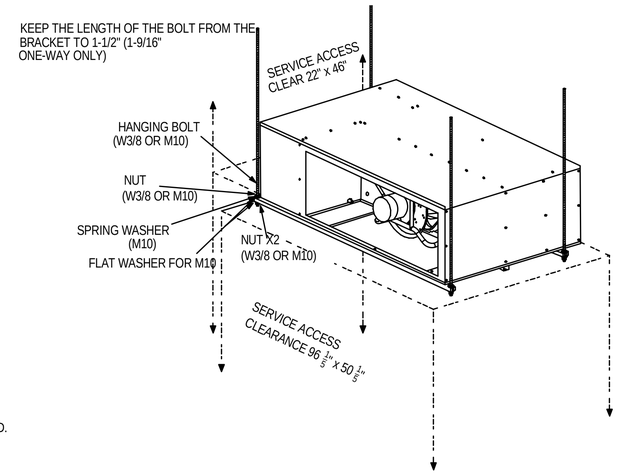
ISSUED FOR BIDS-AUGUST 2024



NOTE: SIZE CONCRETE PAD 6" LARGER THAN UNIT ON ALL SIDES.

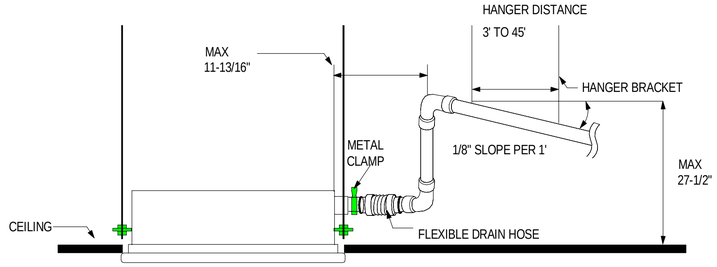
1 TYPICAL HEAT PUMP MOUNTING DETAIL

NOT TO SCALE



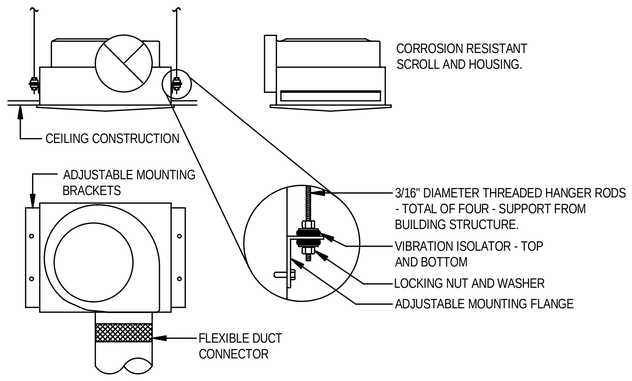
2 TYPICAL DOAS MOUNTING DETAIL

NOT TO SCALE



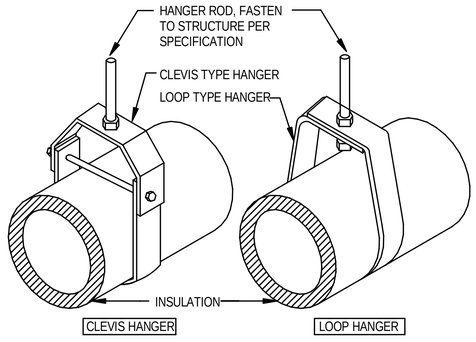
3 TYPICAL CASSETTE CONDENSATE PIPING DETAIL

NOT TO SCALE



4 CEILING EXHAUST FAN DETAIL

NOT TO SCALE



NOTE:
PIPE HANGARS SHALL BE LOCATED IAW MSS SP-69, TABLE 3 AND AT ALL CHANGES IN DIRECTION. HANGERS SHALL BE PAINTED. PIPE COVERING PROTECTION SADDLE.

5 PIPE HANGER DETAIL

NOT TO SCALE

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Architects AA - C000205
Engineers EB - 0000205
Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

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SHEET TITLE:
CITY HALL DETAILS CONT.

SHEET NUMBER:
M2-51

ISSUED FOR BIDS-AUGUST 2024

CITY HALL DOAS SCHEDULE

MARK	#	TYPE	AIR FLOW CFM	COOLING CAPACITY (MBH)	COOLING ENTERING AIR DB °F / WB °F	COOLING LEAVING AIR DB °F	HEATING CAPACITY (MBH)	HEATING ENTERING AIR DB °F	REHEAT LEAVING AIR DB °F	REFRIGERANT TYPE	CONTROLS	FAN QTY	FAN DRIVE	FAN ESP	SOUND POWER DB(A)	ELECTRICAL				BASIS OF DESIGN		NOTES
																RLA	MCA	MOCP	ELEC V/ф/hz	MAKE	MODEL	
DOAS	2	HORIZ. DEDICATED OUTSIDE AIR	1035	93.8	93.0 / 78.0	51.0	50.3	25.0	70.0	R410A	EEV	1	DIRECT	1.5"	75	6.0	7.5	15	208-230/1/60	LG	ARND153DCR4	1

1. PROVIDE HOT GAS REHEAT.

CITY HALL VRF FCU SCHEDULE

MARK	#	TYPE	AIR FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	REFRIGERANT TYPE	CONTROLS	FAN QTY	FAN DRIVE	FAN ESP	ELECTRICAL				BASIS OF DESIGN		NOTES
												RLA	MCA	MOCP	ELEC V/ф/HZ	MAKE	MODEL	
FCU	200	HORIZONTAL FAN COIL	390 CFM	390 CFM	11.9	10.9	R410A	EEV	1	DIRECT	0.25	1.6	2.0	15	208-230/1/60	LG	ARNU123M1A4	1,2,3,4,6,7,8,9,10
FCU	202	HORIZONTAL FAN COIL	395 CFM	0 CFM	8.9	2.7	R410A	EEV	1	DIRECT	0.25	1.6	2.0	15	208-230/1/60	LG	ARNU123M1A4	1,2,3,4,6,7,8,9,10
FCU	203	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.6	1.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	207	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.8	1.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	208	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	5.7	2.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	209	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	25 CFM	8.3	0.5	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES
FCU	210	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.4	1.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	211	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.1	1.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	212	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.2	1.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	213	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.3	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	215	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	0 CFM	5.7	2.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	1,2,3,4,6,7,8,9,10
FCU	216	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.2	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	217	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.3	1.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	218	2'x2' FOUR-WAY CEILING CASSETTE	305 CFM	20 CFM	12.4	0.2	R410A	EEV	1	DIRECT	-	.2	0.25	15	208-230/1/60	LG	ARNU123TRD4	REFER TO ALL NOTES
FCU	219	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.0	1.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	221	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.9	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	222	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	5.5	1.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	223	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	5.5	3.4	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	224	HORIZONTAL FAN COIL	375 CFM	0 CFM	7.2	1.5	R410A	EEV	1	DIRECT	0.25	1.6	2.0	15	208-230/1/60	LG	ARNU093M1A4	1,2,3,4,6,7,8,9,10
FCU	225A	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	9.2	0.7	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	1,2,3,4,6,7,8,9,10
FCU	225B	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	0 CFM	2.9	0.6	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	1,2,3,4,6,7,8,9,10
FCU	226	WALL MOUNTED	230 CFM	0 CFM	2.9	1.8	R410A	EEV	1	DIRECT	-	0.25	0.32	15	208-230/1/60	LG	ARNU053SJA4	1,2,3,4,6,7,8,9,10
FCU	227	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.7	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	231	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.4	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	232	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	20 CFM	6.7	3.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES

1. PROVIDE WALL MOUNTED HARD WIRED TEMPERATURE SENSOR.
2. PROVIDE UNIT WITH DRAIN PAN AND CONDENSATE LIFT PUMP AND SAFETY SWITCH.
3. PROVIDE UNIT WITH STANDARD FILTER.
4. PIPE ALL CONDENSATE FROM UNITS TO APPROPRIATE DRAIN LOCATION.
5. PROVIDE PTVK430 VENTILATION FLANGE.
6. ADJUST LOCATION OF UNITS AS REQUIRED FOR SERVICE AS RECOMMENDED BY MANUFACTURER.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT IN THE POWER WIRING SYSTEM THROUGH A CIRCUIT BREAKER. POWER WIRING IS FIELD SUPPLIED. WIRE SIZE IS SELECTED BASED ON THE LARGER MCA VALUE, AND MUST COMPLY WITH APPLICABLE LOCAL AND NATIONAL CODES.
8. CONTROLS CONTRACTOR SHALL PROVIDE COMMUNICATION CABLE FROM THE OUTDOOR UNIT USING THE DESIGNATED PATH IN THE VRF FAN COIL UNIT.
9. ALL FAN COILS, BRANCH SELECTOR BOXES, OUTDOOR UNITS, AND DEDICATED OUTSIDE AIR SYSTEMS SHALL COMMUNICATE WITH ONE CENTRAL CONTROLLER, WHICH SHALL COMMUNICATE WITH A CENTRAL STATION WHOSE LOCATION SHALL BE CHOSEN BY THE OWNER. THE CENTRAL STATION SHALL BE CAPABLE OF MONITORING AND SETPOINT CONTROL FOR ALL FOUR BUILDINGS' VRF SYSTEMS.
10. ALL FAN COILS AND OUTDOOR UNITS SHALL BE CAPABLE OF HEAT RECOVERY.

CITY HALL OUTDOOR UNIT SCHEDULE

MARK	#	CAPACITY	EER	IEER	COP AT 17°F AMBIENT	REFRIGERANT DATA				ELECTRICAL				BASIS OF DESIGN		NOTES
						COMPRESSOR QTY	TYPE	CONTROL	FAN QTY	RLA	MCA	MOCP	V/ф/HZ	MAKE	MODEL	
HRU	2.1	168 MBH	11.7	25.4	2.45	2	R-410A	EEV	2	48.3	53.6	70	208-230/3/60	LG	ARUM168BTE5	REFER TO ALL NOTES
HRU	2.2	119.7 MBH	11.0	11.8	2.74	1	R-410A	EEV	2	26.3	30.9	40	208-230/3/60	LG	ARUM121BTE5	REFER TO ALL NOTES

1. PROVIDE FRONT AND REAR WIND BAFFLES
2. PROVIDE AND SECURE TO 4" THICK CONCRETE HURRICANE PAD. PAD SHALL EXTEND 6" BEYOND HRU.
3. PROVIDE WITH INTEGRATED 120 VOLT RECEPTACLE.
4. PROVIDE WITH CORROSION RESISTANT COIL COATING.
5. PROVIDE WITH LOW AMBIENT CONTROLS KIT.
6. UNIT SHALL BE CAPABLE OF HEAT RECOVERY.

CITY HALL BRANCH SELECTOR SCHEDULE

MARK	#	REFRIGERANT DATA			ELECTRICAL DATA				BASIS OF DESIGN	
		REFRIGERANT CIRCUITS	TYPE	CONTROL	FLA	MCA	MOCP	V/ф/HZ	MAKE	MODEL
BS	2.1	8	R410A	EEV	0.09	0.12	15	208-230/1/60	LG	PRHR083A
BS	2.2	8	R-410A	EEV	0.09	0.12	15	208-230/1/60	LG	PRHR083A
BS	2.3	6	R410A	EEV	0.09	0.12	15	208-230/1/60	LG	PRHR063A
BS	2.4	8	R410A	EEV	0.09	0.12	15	208-230/1/60	LG	PRHR083A

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Architects AA - C000205
Engineers EB - 0000695
Surveyors LB - 0000783
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SHEET TITLE:
CITY HALL VRF SYSTEM SCHEDULES

SHEET NUMBER:
M2-60

CITY HALL EXHAUST FAN SCHEDULE

MARK	#	TYPE	CFM	ESP	MOTOR DATA					SOUND LEVEL SONNES	BASIS OF DESIGN		NOTES
					DRIVE	ELECTRICAL					MAKE	MODEL	
						RLA	MCA	MOCP	V/ϕ/HZ				
EF	204	CEILING	95	0.25	DIRECT	1.15	1.4	15	115/1/60	2.5	GREENHECK	SP-B110	1,3,4,5,6,7
EF	205	CEILING	50	0.25	DIRECT	0.15	0.19	15	115/1/60	1.6	GREENHECK	SP-B70	2,3,4,5,6,7
EF	214	CEILING	50	0.25	DIRECT	0.15	0.19	15	115/1/60	1.6	GREENHECK	SP-B70	2,3,4,5,6,7
EF	218	HOOD	150	0.25	DIRECT	0.65	0.85	15	120/1/60	6.0	BROAN	BCDF130SS	2,3,4,5,6,7
EF	220	CEILING	50	0.25	DIRECT	0.15	0.19	15	115/1/60	1.6	GREENHECK	SP-B70	2,3,4,5,6,7
EF	228	CEILING	100	0.25	DIRECT	0.29	0.37	15	115/1/60	2.8	GREENHECK	SP-B110	2,3,4,5,6,7
EF	229	CEILING	100	0.25	DIRECT	0.29	0.37	15	115/1/60	2.8	GREENHECK	SP-B110	2,3,4,5,6,7

1. FAN SHALL BE ENABLED ANY TIME THE BUILDING IS OCCUPIED.
2. FAN SHALL BE ENABLED AND DISABLED THROUGH A SWITCH OR SENSOR IN THE SERVED SPACE.
3. CEILING EXHAUST FANS CONTROLLED BY OCCUPANCY SENSORS SHALL RUN AN ADJUSTABLE TIME LIMIT ONCE NO PERSON HAS BEEN DETECTED IN THE SPACE. THIS TIME LIMIT SHALL BE DETERMINED BY OWNER.
4. EXHAUST SHALL EXIT THROUGH GRILLE IN THE SOFFET.
5. PROVIDE VOLUME DAMPER.
6. PROVIDE BACKDRAFT DAMPER.
7. FAN SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER.

CITY HALL LOUVER SCHEDULE

TYPE	#	AIR FLOW	SIZE		FREE AREA	AIR VELOCITY	PRESSURE DROP	BASIS OF DESIGN	
			INLET WIDTH	INLET HEIGHT				MAKE	MODEL
LVR-OA	226	1035 CFM	40"	16"	3.11 FT²	333 FPM	0.02"	RUSKIN	ELF6375DXD

1. PROVIDE ALUMINUM BIRD SCREEN
2. LOUVER SHALL BE HURRICANE RATED AND MIAMI DADE COUNTY APPROVED.
3. SEE SPEC FOR FINISH

CITY HALL EXHAUST GRILLE SCHEDULE

TYPE	#	AIR FLOW	SIZE		PRESSURE DROP	NOISE CRITERIA (dB)	BASIS OF DESIGN	
			INLET WIDTH	INLET HEIGHT			MAKE	MODEL
EG	204	95 CFM	6"	6"	0.02"	14	METALAIRE	RH
EG	205	70 CFM	6"	6"	0.01"	-	METALAIRE	RH
EG	214	70 CFM	6"	6"	0.01"	-	METALAIRE	RH
EG	218	150 CFM	12"	6"	0.01	13	METALAIRE	RH
EG	220	70 CFM	6"	6"	0.01"	-	METALAIRE	RH
EG	228	140 CFM	8"	6"	0.02"	16	METALAIRE	RH
EG	229	140 CFM	8"	6"	0.02"	16	METALAIRE	RH

CITY HALL AIR TERMINALS

TYPE	#	AIR FLOW	NECK SIZE	MODULE SIZE	NOISE CRITERIA	BASIS OF DESIGN	
						MAKE	MODEL
CD	201A	30 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	201B	105 CFM	6"ø	24" x 24"	19	TITUS	TMSA
CD	206	40 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	224A	110 CFM	6"ø	24" x 24"	14	TITUS	TMSA
CD	224B	110 CFM	6"ø	24" x 24"	14	TITUS	TMSA
CD	230	30 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	233	30 CFM	4"ø	24" x 24"	-	TITUS	TMSA
RAG	200	390 CFM	18"x6"	-	17	TITUS	271-FL
RAG	202	370 CFM	18"x6"	-	16	TITUS	271-FL
TG	204B	1700 CFM	22"x22"	24 x 24	-	TITUS	350-FL
TG	205A	1700 CFM	22"x22"	24 x 24	-	TITUS	350-FL
TG	220A	1700 CFM	22"x22"	24 x 24	-	TITUS	350-FL
TG	228B	1700 CFM	22"x22"	24 x 24	-	TITUS	350-FL
TG	229A	1700 CFM	22"x22"	24 x 24	-	TITUS	350-FL

CITY HALL SLOT DIFFUSER SCHEDULE

HVAC ID	#	AIR FLOW	LENGTH	# OF SLOTS	SLOT HEIGHT	BASIS OF DESIGN		NOTES
						MAKE	MODEL	
SWS	200A	195 CFM	2' - 0"	2	0' - 2"	TITUS	FL-20	REFER TO ALL NOTES
SWS	200B	195 CFM	2' - 0"	2	0' - 2"	TITUS	FL-20	REFER TO ALL NOTES
SWS	200C	120 CFM	2' - 0"	2	0' - 2"	TITUS	FL-20	REFER TO ALL NOTES
SWS	202A	135 CFM	2' - 0"	2	0' - 2"	TITUS	FL-20	REFER TO ALL NOTES
SWS	202B	130 CFM	2' - 0"	2	0' - 2"	TITUS	FL-20	REFER TO ALL NOTES

1. PROVIDE PLENUM BOX AND INLET DAMPER ACCESSORIES.
2. PROVIDE WITH SATIN ALUMINUM FINISH.

PETERSON ENGINEERING INC.
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Architects AA - C000205
Engineers EB - 0000205
Surveyors LB - 0000783
MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C. Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

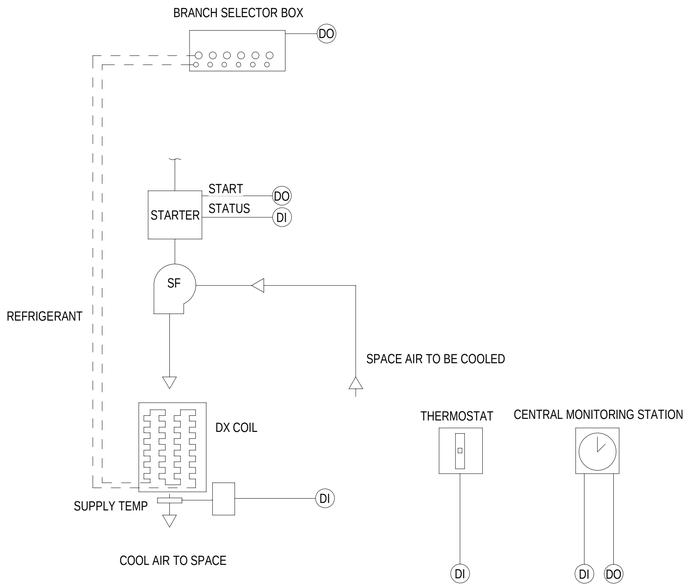
SHEET TITLE:

CITY HALL HVAC AIR TERMINALS AND EQUIPMENT SCHEDULES

SHEET NUMBER:

M2-61

ISSUED FOR BIDS-AUGUST 2024



1. ALL FOLLOWING SETPOINTS SHALL BE ADJUSTABLE.

2. ALL FAN COIL UNITS SHALL REPORT TO ONE CENTRAL DDC MONITORING STATION. LIVE DATA FOR ALL OUTPUTS AND INPUTS IN THE ABOVE CONTROL DIAGRAM SHALL HAVE THE ABILITY TO BE MONITORED FROM THE CENTRAL DDC STATION.

3. UPON ENTERING THE OCCUPANCY TIME PERIOD, ALL FAN COIL FANS SHALL START. FANS SHALL NOT DISABLE UNTIL THE BUILDING ENTERS UNOCCUPIED MODE OR A FIRE ALARM SIGNAL IS PRESENT.

4. WHEN IN OCCUPIED MODE, THE FAN COIL SHALL CONTROL THE SPACAE TEMPERATURE TO BE WITHIN GHTE COOLING AND HEATING SETPOINTS.

5. WHEN SYSTEM IS IN UNOCCUPIED MODE, THE SYSTEM SHALL OCNTROL THE SPACE TEMPERATURE TO THE NIGHT SETBACK COOLING AND HEATING SETPOINTS.

6. WHEN STEPOINT IS MET AND THE UNIT IS IN UNOCCUPIED MODE, THE FAN SHALL STOP.

7. AT ANY TIME (OCCUPIED OR UNOCCUPIED) THE RH IS ABOVE 60% (ADJ.): DOAS SHALL START, ALL FAN COILS SHALL START, AND DOAS SHALL COOL OUTSIDE AIR TO 51°F AND REHEAT TO 70°F VIA HOT GAS REHEAT. THIS OPERATION SHALL CONTINUE UNTIL SPACE HUMIDITY REACHES 55% RH (ADJ.), AFTER WHICH FAN COILS AND DOAS SHALL RESUME THEIR PREVIOUS OPERATIONS BASED ON THE TIME OF DAY SCHEDULING.

8. ALL FAN COILS SHALL DISABLE UPON A SIGNAL FROM THE FIRE ALARM PANEL.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
COOLING SETPOINT:	72 °F (ADJ.)
HEATING SETPOINT:	68°F (ADJ)
NSB COOLING SETPOINT:	80°F (ADJ)
NSB HEATING SETPOINT:	55°F (ADJ.)

MECHANICAL CONTROLS DIAGRAM - VRF FAN COILS

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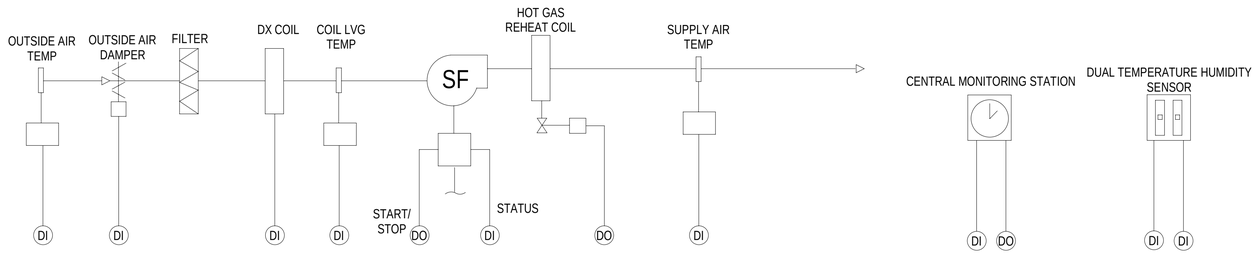
SHEET TITLE:

CITY HALL VRF FAN COIL CONTROLS

SHEET NUMBER:

M2-62



1. ALL SETPOINTS BELOW SHALL BE ADJUSTABLE.

2. ALL DOAS UNITS SHALL REPORT TO ONE CENTRAL DDC MONITORING STATION. LIVE DATA FOR ALL OUTPUTS AND INPUTS IN THE ABOVE CONTROL DIAGRAM SHALL HAVE THE ABILITY TO BE MONITORED FROM THE CENTRAL DDC STATION.

3. DOAS SHALL BE SCHEDULED FROM THE CENTRAL DDC STATION.

4. DOAS SHALL ALWAYS BE ENABLED DURING THE OCCUPIED TIME FRAME.

5. WHEN ENABLED, THE TWO-POSITION OUTSIDE AIR DAMPER SHALL OPEN, THE FAN SHALL START, AND THE ASSOCIATED HEAT RECOVERY UNIT SHALL ENABLE.

7. WHEN THE BUILDING BECOMES UNOCCUPIED, ASSOCIATED HEAT RECOVERY UNIT SHALL DISABLE, DOAS FAN SHALL DISABLE, AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

8. OCCUPANCY SCHEDULE SHALL BE SET BY OWNER.

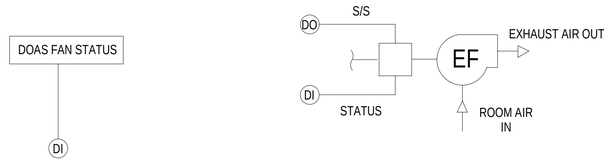
9. AT ANY TIME (OCCUPIED OR UNOCCUPIED) THE RH IS ABOVE 60% (ADJ.): DOAS SHALL START, ALL FAN COILS SHALL START, AND DOAS SHALL COOL OUTSIDE AIR TO 51°F AND REHEAT TO 70°F VIA HOT GAS REHEAT. THIS OPERATION SHALL CONTINUE UNTIL SPACE HUMIDITY REACHES 55% RH (ADJ.), AFTER WHICH FAN COILS AND DOAS SHALL RESUME THEIR PREVIOUS OPERATIONS BASED ON THE TIME OF DAY SCHEDULING.

10. DOAS SHALL BE INTERLOCKED WITH THE FIRE ALARM RELAY.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
COOLING COIL LEAVING AIR TEMPERATURE SETPOINT:	51°F
DISCHARGE AIR TEMPERATURE SETPOINT:	70°F
MAX SPACE HUMIDITY SETPOINT:	60%RH (ADJ.)

MECHANICAL CONTROL DIAGRAM - DOAS



1. EXHAUST FANS START WHEN DOAS IS ENABLED.

2. EXHAUST FANS SHALL STOP WHEN DOAS IS DISABLED.

MECHANICAL CONTROLS DIAGRAM - INTERLOCKED EXHAUST FAN

ALL

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SHEET TITLE:

CITY HALL DOAS AND EXHAUST FAN CONTROLS

SHEET NUMBER:

M2-63

8/6/2024 8:32:41 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024

HVAC GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE HARD SUSPENDED CEILING, OR ACOUSTICAL CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. COORDINATE LOCATION WITH MECHANICAL INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. LOSS FOR FILTERS SHALL BE FOR FILTERS AT 50% LOADING. SOUND POWER LEVEL OF THE FANS MUST NOT EXCEED 85 dBA WHEN TESTED ACCORDING TO AMCA STANDARDS.
5. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
6. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES. DIFFUSER SHALL MINIMIZE CEILING SMUDGING.
7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
9. INSTALL A COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
10. CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
11. INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
12. THE APPROXIMATE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN WHERE APPLICABLE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND PROTECT BEFORE COMMENCING WORK.
13. COORDINATE EQUIPMENT CLEARANCES (AS RECOMMENDED BY MANUFACTURER) WITH ALL DISCIPLINES BEFORE INSTALLATION.
14. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT, VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
15. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT, MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 IN. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 IN. ON ALL SIDES.
16. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT.
17. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DECTECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK THAT REQUIRE SERVICE AND/OR INSPECTION. PROVIDE DUCT ACCESS DOORS AT REGULAR INTERVALS TO FACILITATE THE CLEANING OF DUCT SYSTEMS.
18. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UPSTREAM AND DOWNSTREAM AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
19. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
20. LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
21. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH AN APPROVED PRODUCT.
22. ALL EQUIPMENT REQUIRING CONDENSATE DRAIN LINES SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, TRAPPED PER MANUFACTURERS DETAILS FOR ACTUAL EQUIPMENT AND STATIC PRESSURE. CONDENSATE SHALL BE PIPED TO THE NEAREST DRAIN AS INDICATED. PROVIDE CONDENSATE PUMPS AS REQUIRED.
23. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
24. THERMOSTATS INDICATED ADJACENT TO DOORWAYS SHALL BE LOCATED WITHIN 18" OF JAMB AT LOCATIONS WITH LIGHT SWITCHES, LOCATE THERMOSTAT SUCH THAT LIGHT SWITCH IS BETWEEN THERMOSTAT AND JAMB. VERIFY THERMOSTAT LOCATION WITH SYSTEM FURNITURE LAYOUT PRIOR TO INSTALLING THERMOSTATS.
25. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
26. PROVIDE ALL 90-DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
27. LAUNDRY EXHAUST SHALL BE OF UNVANED SMOOTH RADIUS CONSTUCTION WITH A RADIUS EQUAL TO 1-1/2" TIMES THE WIDTH OF THE DUCT.
28. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING MOUNTED EQUIPMENT AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
29. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER DIMENSIONS INDICATED DOES NOT INCLUDE FRAME OR FLANGES. APPROXIMATE ROUGH OPENING IN WALL ASSEMBLY IS INDICATED ON ARCHITECTURAL.
30. AVOID ROUTING DUCTWORK AND MECHANICAL EQUIPMENT OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND DUCT INSULATION TO TOP OF LIGHTS. PROVIDE CLEARANCE AND ACCESS ALL AROUND AND BELOW MECHANICAL EQUIPMENT AS REQUIRED FOR ROUTINE MAINTENANCE.
31. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
32. ALL AIR INTAKES OPENING TO EXTERIOR SHALL HAVE A MIN 10'-0" CLEARANCE FROM ANY EXHAUST OPENING TO PREVENT RECIRCULATION.
33. MOUNT DUCTWORK AS HIGH AS POSSIBLE WHERE EXPOSED, UNLESS OTHERWISE NOTED.
34. EXPOSED DUCTWORK SHALL BE DOUBLE-WALL INSULATED WITH A SOLID LINER. PROVIDE GALVANIZED FINISH SUITABLE FOR PAINTING. PRIME AND PAINT TO COLOR SELECTED BY ARCHITECT.
35. ALL ROUND FLEXIBLE DUCT SHALL BE FACTORY PREINSULATED THERMOFLEX OR EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
36. ALL SUPPLY AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. (COMMERCIAL DESIGN)
37. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
38. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
39. EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
40. KITCHEN EXHAUST AIR DUCTWORK AND GREASE LADEN EXHAUST DUCT SHALL BE CONSTRUCTED IAW NFPA 96. HORIZONTAL DUCT RUNS SHALL BE SLOPED BACK TOWARDS HOOD. DUCTWORK SHALL BE STAINLESS STEEL FULLY WELDED LIQUID TIGHT CONSTRUCTION, PROVIDE ACCESS DOORS PER NFPA 96. TRANSITION AND MAKE FINAL CONNECTION TO EXHAUST COLLAR WITH DUCT SIZED PER COLLAR DIMENSIONS ON KITCHEN EQUIPMENT DRAWINGS. APPLY 2HR RATED UL LISTED GREASE DUCT INSULATION.

HVAC LEGEND

SUPPLY AIR DUCT UP

SUPPLY AIR DUCT DOWN

RETURN AIR DUCT UP

RETURN AIR DUCT DOWN

EXHAUST AIR DUCT UP

EXHAUST AIR DUCT DOWN

WxH — DOUBLE WALL DUCTWORK. FIRST FIGURE IS SIDE SHOWN.

WxH — INTERNALLY LINED DUCTWORK. FIRST FIGURE IS SIDE SHOWN.

WxH — RECTANGULAR DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. FIRST FIGURE IS SIDE SHOWN.

W/H — OVAL DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. FIRST FIGURE IS SIDE SHOWN.

Ø — ROUND SPIRAL SEAM GALVANIZED STEEL DUCTWORK. SIZE SHOWN IS SHEET METAL DIAMETER.

FACTORY FABRICATED/INSULATED FLEXIBLE ROUND DUCT, SAME SIZE AS OUTLET DIAMETER.

Ø Ø — ROUND BRANCH DUCT TAKEOFF FROM ROUND DUCT MAIN. BRANCH DUCT SHALL BE ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK OR FLEXIBLE ROUND DUCT. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER.

WxH Ø — ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR DUCT MAIN. BRANCH DUCT SHALL BE ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK OR FLEXIBLE ROUND DUCT. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER.

WxH WxH — RECTANGULAR BRANCH DUCT TAKE OFF FROM RECTANGULAR DUCT MAIN WITH 45° COLLAR AND MANUAL VOLUME DAMPER.

SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH DOUBLE WALL TURNING VANES.

LONG RADIUS ELBOW IN RECTANGULAR DUCT.

RECTANGULAR TO ROUND DUCT TRANSITION.

RECTANGULAR TO RECTANGULAR DUCT TRANSITION.

AUTOMATIC OPPOSED BLADE DAMPER

AUTOMATIC PARALLEL BLADE DAMPER

MOTORIZED FIRE DAMPER

FD

ROUND MANUAL VOLUME DAMPER

RECTANGULAR MANUAL VOLUME DAMPER

24"x24" FACE CEILING DIFFUSER EQUAL TO "TITUS TMSA-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.

12"x12" FACE CEILING DIFFUSER EQUAL TO "TITUS TMSA-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.

CEILING DIFFUSER EQUAL TO "TITUS 250-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.

RETURN AIR CEILING GRILLE EQUAL TO "TITUS 350FL". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID.

EXHAUST AIR GRILLE EQUAL TO "TITUS 350FL". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID.

SIDE WALL MOUNTED SUPPLY REGISTER, EQUAL TO "TITUS FL-25 ".

SIDE WALL MOUNTED RETURN REGISTER, EQUAL TO "TITUS 350FL".

SIDE WALL MOUNTED EXHAUST REGISTER, EQUAL TO "TITUS 350FL".

PIPE UP

PIPE DN

PIPE TRANSITION

UNION

1/8" / 12" — PIPE SLOPE AND SLOPE DIRECTION

XXX SYMBOLS

- (T) THERMOSTAT WITH UNIT NUMBER
- (H) HUMIDISTAT
- (NO2) NITROGEN DIOXIDE SENSOR
- (CO) CARBON MONOXIDE SENSOR
- (AI) ANALOG IN
- (AO) ANALOG OUT
- (DI) DIGITAL IN
- (DO) DIGITAL OUT
- (1) ROUND SHEET NOTE

DETAIL NUMBER 1 / SHEET NUMBER A101 — View Name 1/8" = 1'-0"

DETAIL NUMBER 1 / SHEET NUMBER A101 R101 / REFERENCE SHEET — View Name 1/8" = 1'-0"

SECTION NUMBER 1 / SHEET NUMBER A101

SECTION NUMBER 1 / SHEET NUMBER A101 R101 / REFERENCE SHEET

EQUIPMENT ABBREVIATION AHU / EQUIPMENT MARK #

DIFFUSER / GRILLE TAG

INDICATES QTY — TYP. OF 2

INDICATES TYPE — CD 8"ø 200 CFM

INDICATES DUCT INLET SIZE

INDICATES AIR FLOW

LOUVER TAG

INDICATES TYPE — LVR-OA 10W"X32H" 1000 CFM →

INDICATES DUCT DIMENSIONS

INDICATES AIR FLOW

FAN COIL OUTSIDE AIR TAG

INDICATES QTY — TYP OF 2

EQUIPMENT MARK AND # — FCU 333A 99 CFM

OUTSIDE AIR SUPPLIED

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Mott MacDonald PROJECT NO: 502100062-005

SHEET TITLE:

FIRE STATION HVAC LEGENDS & GENERAL NOTES

SHEET NUMBER:

M3-00

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:41 AM

ISSUED FOR BIDS-AUGUST 2024

HVAC ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
ACD-TP	AUTOMATIC CONTROL DAMPER, TWO POSITION
AD	ACCESS DOOR
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR-HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AW	AIR WASHER
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BG	BOTTOM GRILLE
BHP	BRAKE HORSEPOWER
BR	BOTTOM REGISTER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CG	CEILING GRILLE
CM	CARBON MONOXIDE
CO	CLEAN OUT
COMP	COMPRESSOR UNIT
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
D	DAMPER - AUTOMATIC
Db	DRY-BULB TEMPERATURE
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
DXCC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
ENT	ENTERING
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
F	FAHRENHEIT
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
GA	GAUGE
GH	GAS HEATER
GPR	GAS PRESSURE REGULATOR
GS	GALVANIZED STEEL
HC	HEATING COIL
HD	HOOD
HOA	HAND/OFF/AUTOMATIC
HP	HORSEPOWER
HRU	HEAT RECOVERY UNIT
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IN	INCHES
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IS	INSECT SCREEN
KW	KILOWATT
KWH	KILOWATT HOUR
L	LITER
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FOOT (FEET)
LH	LATENT HEAT
LSD	LINEAR SLOT DIFFUSER
LVG	LEAVING
LVR	LOUVER
MAX	MAXIMUM
MBH	1,000 BTU/HOUR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NTS	NOT TO SCALE
NSB	NIGHT SETBACK
OA	OUTSIDE AIR
OAD	OUTDOOR AIR DAMPER
OAG	OUTSIDE AIR GRILLE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PG	PRESSURE GAGE
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PPD	PINTS PER DAY
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RAT	RETURN AIR TEMPERATURE
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCR	SILICON CONTROLLED RECTIFIER
SD	SUPPLY AIR DIFFUSER
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SI	SQUARE INCHES
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TG	TRANSFER GRILLE
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
UC	UNDER CUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATOR
VSD	VARIABLE SPEED DRIVE
VUH	VERTICAL UNIT HEATER
W	WATTS
WB	WET-BULB (TEMPERATURE)
WEF	WALL EXHAUST FAN
YR	YEAR

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Engineers EB - 0000295
Surveyors LB - 0000783
MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
HVAC ABBREVIATIONS

SHEET NUMBER:
M3-01

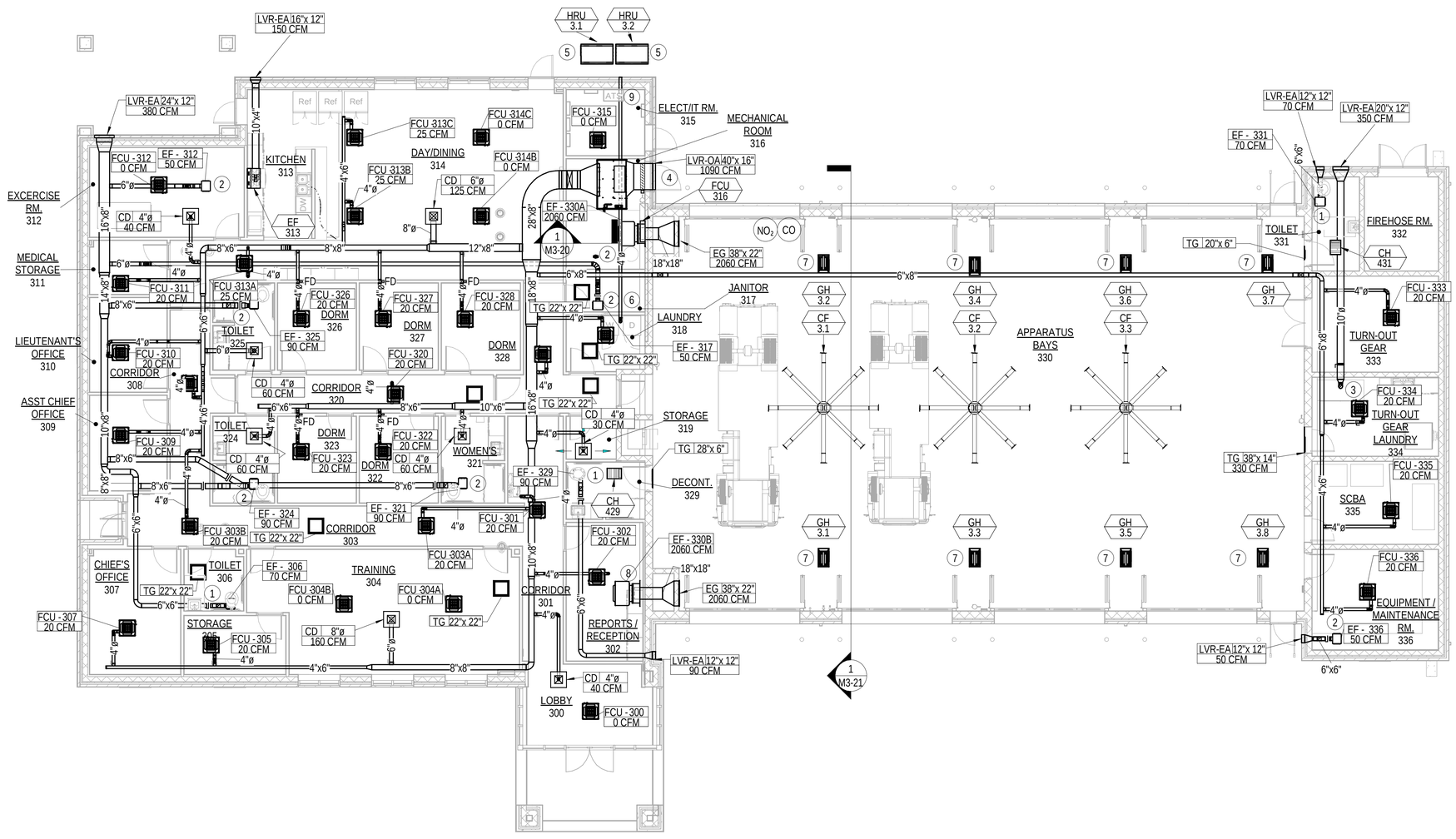
ISSUED FOR BIDS-AUGUST 2024

NOTES

1. ENABLE EXHAUST FAN WITH SIGNAL FROM ROOM OCCUPANCY SENSOR.
2. ENABLE EXHAUST FAN WITH OCCUPANCY SCHEDULE.
3. ALIGN DUCTWORK TO TURNOUT GEAR DRYER CONNECTION AND CONNECT WITH APPROPRIATE SIZED FITTING. SEAL ALL JOINTS.
4. CENTER OUTSIDE AIR LOUVER ABOVE MECHANICAL ROOM DOOR.
5. SECURE UNIT TO 4" THICK CONCRETE PAD 6" LARGER THAN THE UNIT ON ALL SIDES.
6. INSTALL IN-LINE BOOSTER FAN IN DRYER DUCT.
7. PROVIDE A DEDICATED WALL SWITCH TO START RADIANT HEATER.
8. ENABLE EXHAUST FAN WITH SIGNAL FROM NO2/CO SENSOR
9. INSTALL DRYER VENT IN EXTERIOR WALL FOR DRYER EXHAUST DUCT

GENERAL NOTES

1. SEE FAN COIL SCHEDULE FOR CASSETTE AND WALL MOUNTED FAN COIL DISCHARGE AIR FLOWS.
2. CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS SHALL BE RATED TO DETECT OVER THE ENTIRE FLOOR AREA OF THE SPACE THEY SERVE. MOUNT AT MANUFACTURER RECOMMENDED HEIGHT(S) AFF.



1 M3-10 FIRE STATION EXHAUST DUCTWORK RCP

1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

PETERSON ENGINEERING INC.

(PROF. ENG. #: 3600)
75 SOUTH "F" STREET
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(850) 434-0513
PEI 21173

8' 0' 8' 16'
SCALE: 1/8"=1'-0"

ISSUED FOR BIDS-AUGUST 2024

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MOTT MACDONALD

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PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

FIRE STATION HVAC NEW WORK

SHEET NUMBER:

M3-10

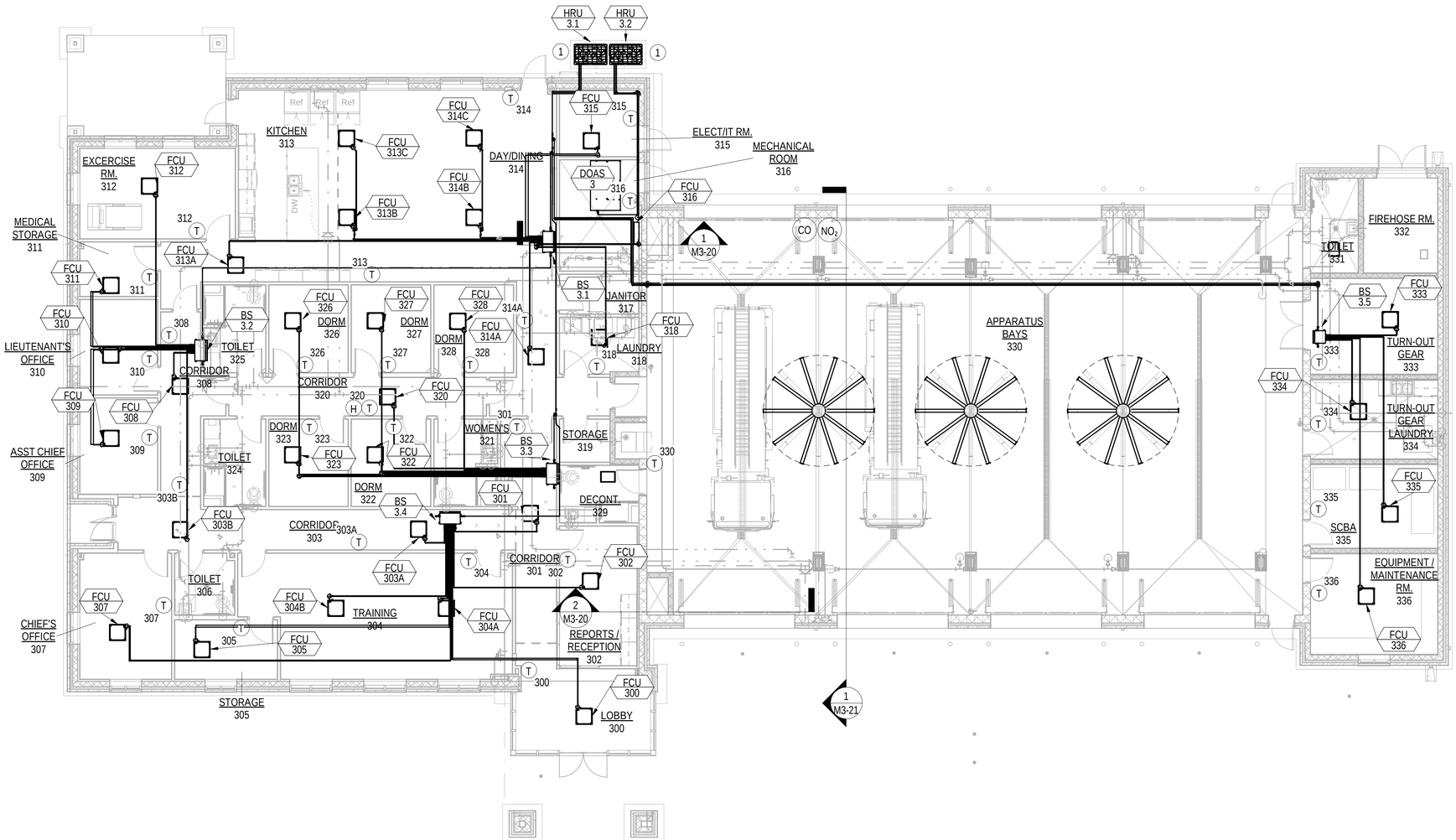
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:46 AM

NOTES

1. MAINTAIN MANUFACTURER'S CLEARANCE REQUIREMENTS.

GENERAL NOTES

1. PLACE THERMOSTATS IN AREA AWAY FROM HEAT PRODUCING EQUIPMENT.
2. LOCATE THERMOSTATS 4'6" ABOVE FINISHED FLOOR.
3. THERMOSTATS IN CLOSE PROXIMITY TO A SWINGING DOOR SHALL BE INSTALLED ON THE SIDE OPPOSITE THE DOOR HINGES.
4. FINAL PIPE CONFIGURATION WILL VARY WITH EQUIPMENT MANUFACTURER. SEE MANUFACTURER INSTALLATION MANUAL FOR PIPE SIZES AND ACCESSORIES.
5. SUBMIT SHOP DRAWINGS FROM THE MANUFACTURER'S EQUIPMENT REPRESENTATIVE SHOWING FINAL LAYOUT AND ALL ACCESSORIES, PIPE SIZES, AND SYSTEM CONTROLS.



1 M3-11 FIRE STATION REFRIGERANT PIPING

1/8" = 1'-0"

TRUE NORTH | PROJECT NORTH

PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
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(850) 434-0513
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8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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SHEET TITLE:

FIRE STATION REFRIGERANT PIPING

SHEET NUMBER:

M3-11

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:51 AM

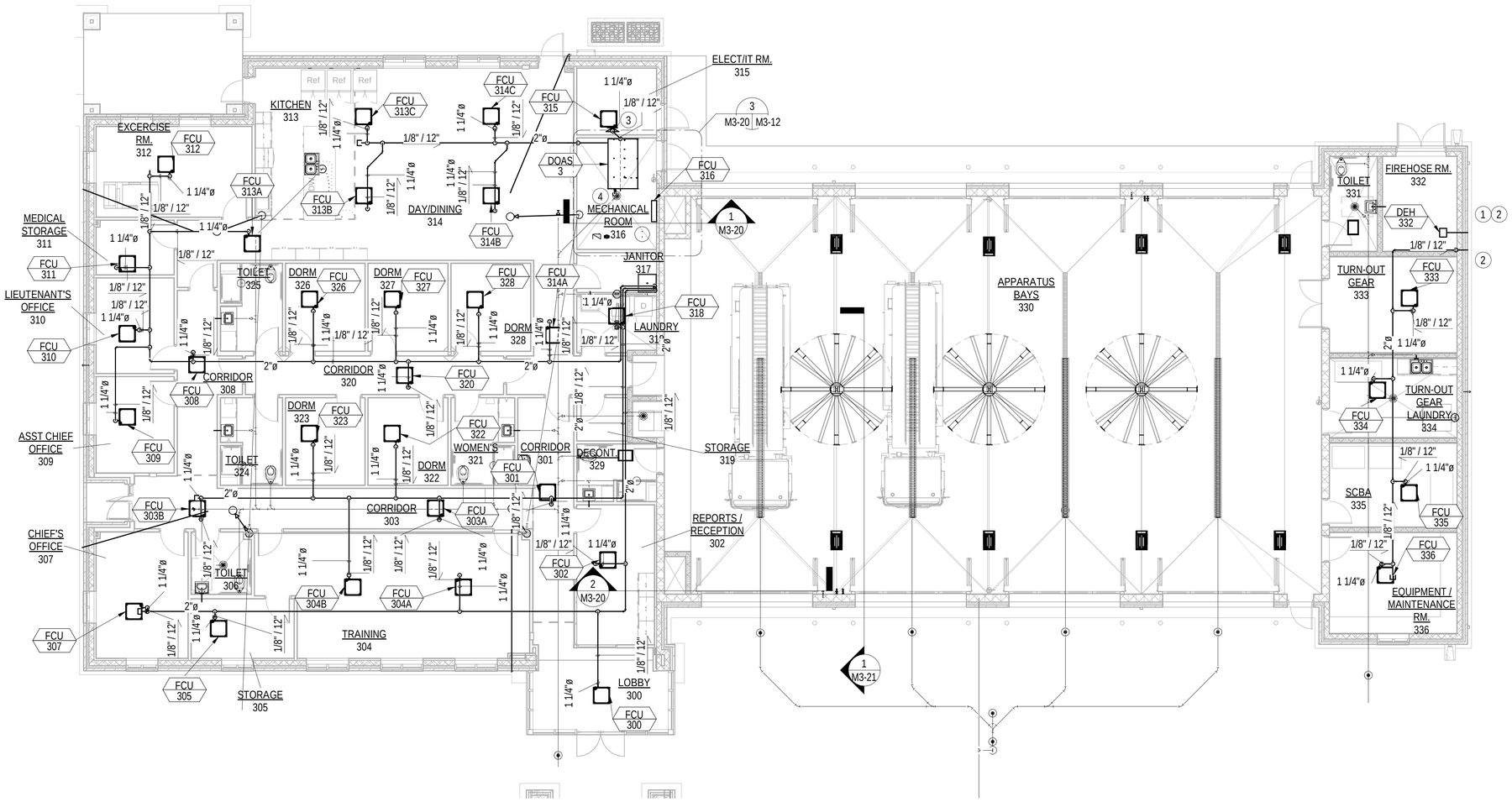
ISSUED FOR BIDS-AUGUST 2024

GENERAL NOTES

1. MAXIMUM PIPE ELEVATION FROM BOTTOM OF FAN COILS IS 27-1/2".
2. ALL HORIZONTAL RUNS SHALL SLOPE DOWN 1/8" PER 1' TOWARDS DRAIN LOCATIONS.
3. EACH FAN COIL SHALL HAVE AN INVERTED TRAP.
4. EACH CONNECTION OF AN INVERTED TRAP TO A MAIN PIPE SHALL BE ON THE TOP HALF OF THE MAIN PIPE.

NOTES

1. ROUTE DEHUMIDIFIER CONDENSATE OUT OF THE BUILDING. DRAIN LINE SHALL NEVER BE ELEVATED HIGHER THAN DRAIN OUTLET.
2. SEAL EXTERIOR WALL PIPE PENETRATION.
3. ROUTE PIPING TO COMPLY WITH NEC 110.26(E)
4. PROVIDE CONDENSATE TRAP AS SPECIFIED BY DOAS MANUFACTURER.



1 M3-12 — FIRE STATION CONDENSATE PIPING

1/8" = 1'-0"

TRUE NORTH | PROJECT NORTH

PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
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(850) 434-0513
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8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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SHEET TITLE:

FIRE STATION CONDENSATE PIPING

SHEET NUMBER:

M3-12

ISSUED FOR BIDS-AUGUST 2024

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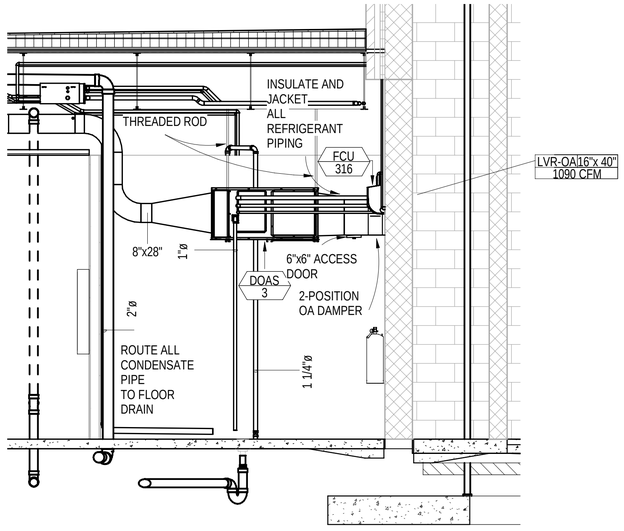
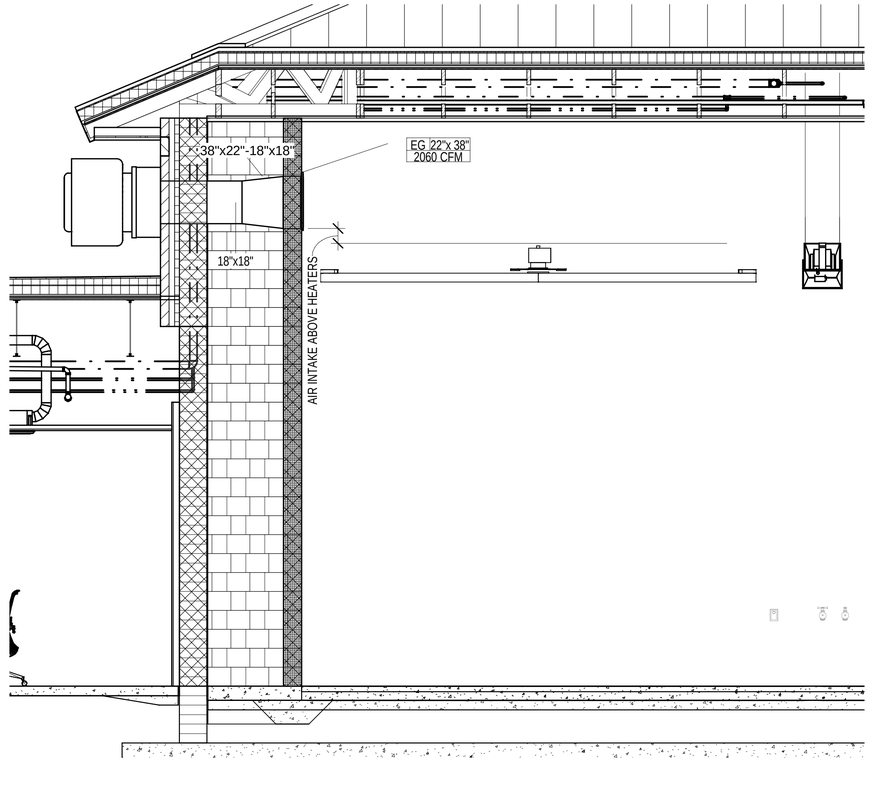


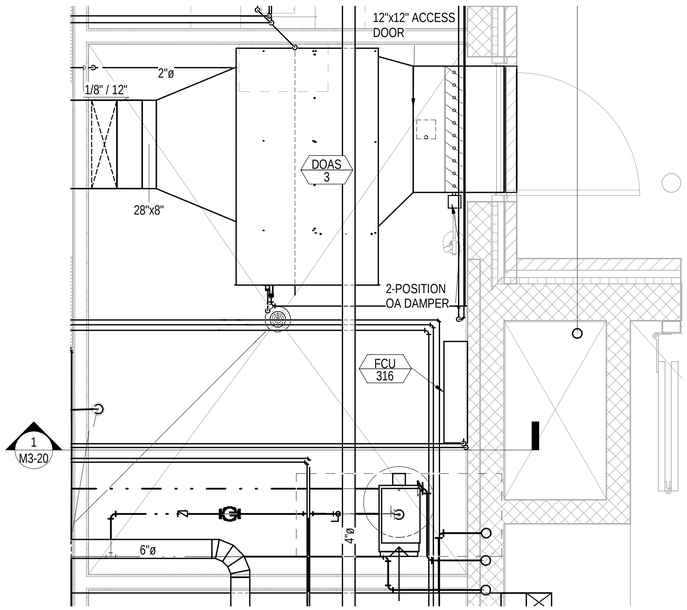
1 M3-20 FIRE STATION MECHANICAL ROOM

3/8" = 1'-0"



2 M3-20 TYPICAL APPARATUS BAY EXHAUST FAN CHASE SECTION

3/8" = 1'-0"



3 M3-20 FIRE STATION MECHANICAL ROOM ENLARGED

1/2" = 1'-0"

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PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

FIRE STATION ELEVATIONS, SECTIONS, AND ENLARGED VIEWS

SHEET NUMBER:

M3-20

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502100062-005
8/6/2024 8:32:57 AM

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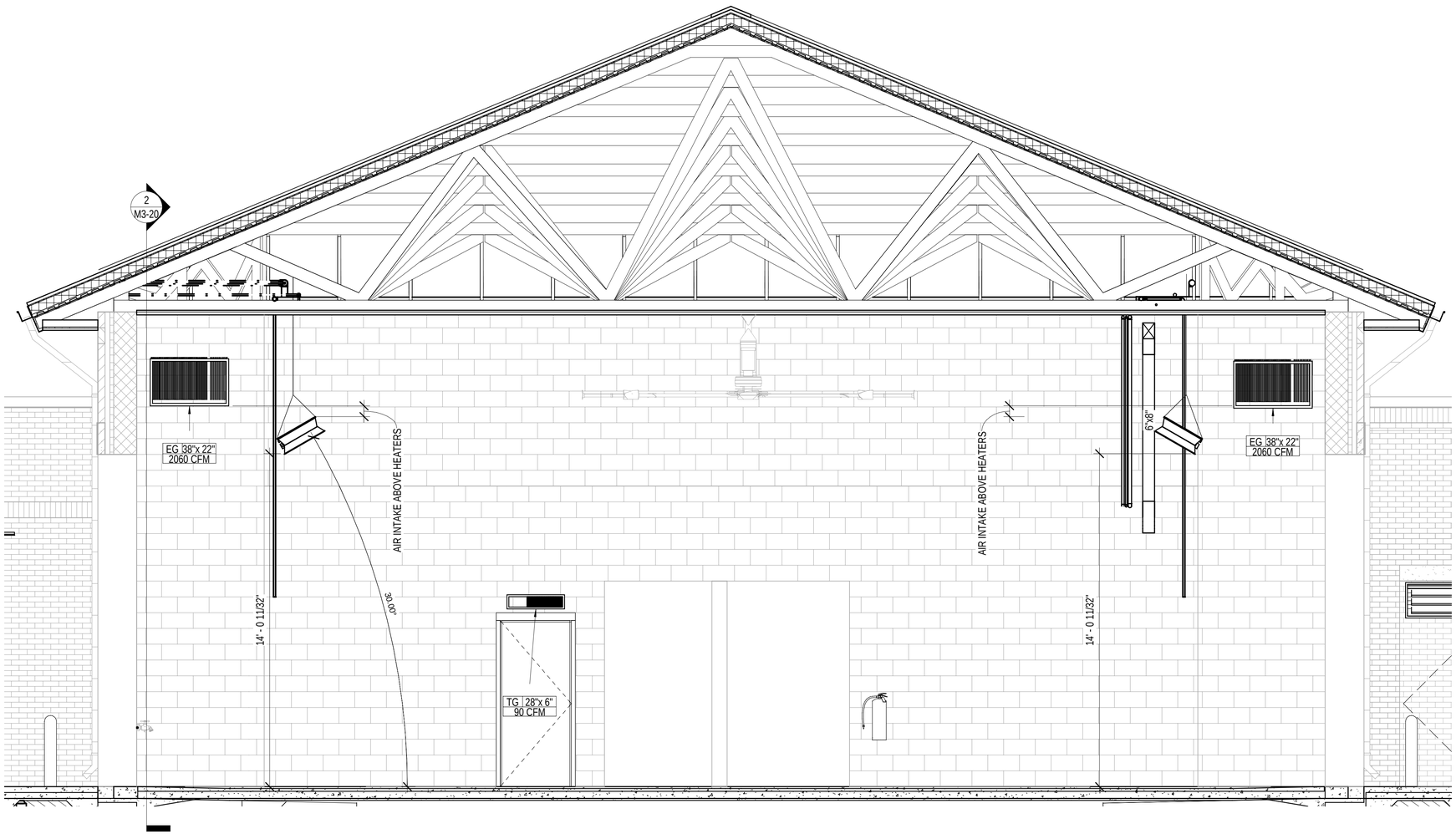

1 M3-21 FIRE STATION APP. BAY SOUTH WALL

3/8" = 1'-0"

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ISSUED FOR BIDS-AUGUST 2024

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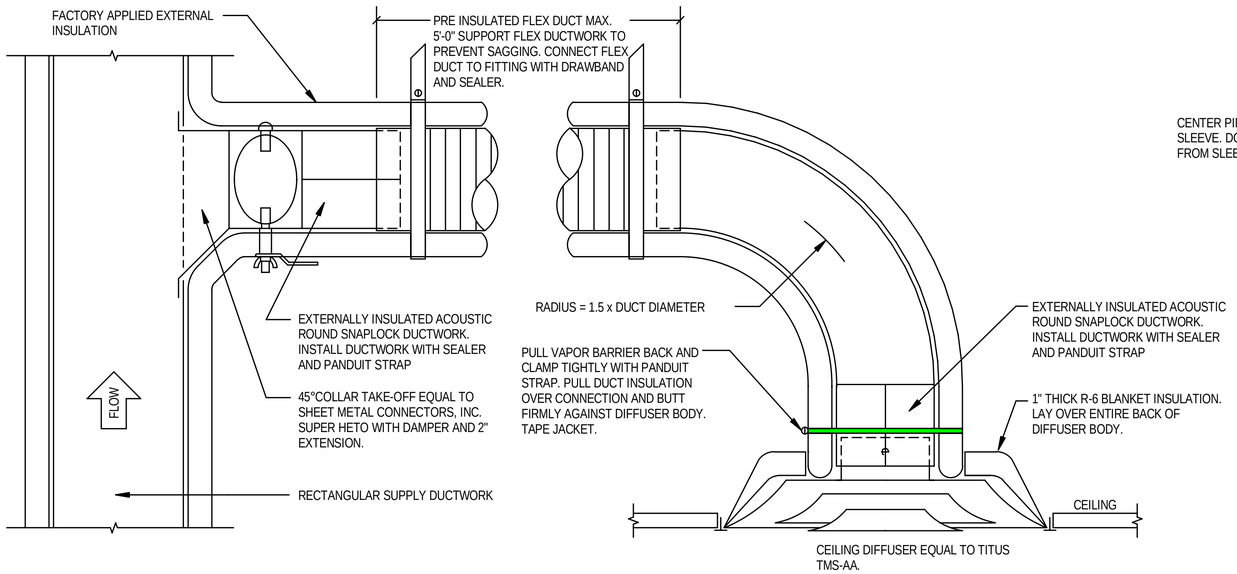
SHEET TITLE:

FIRE STATION APP. BAYS SOUTH WALL

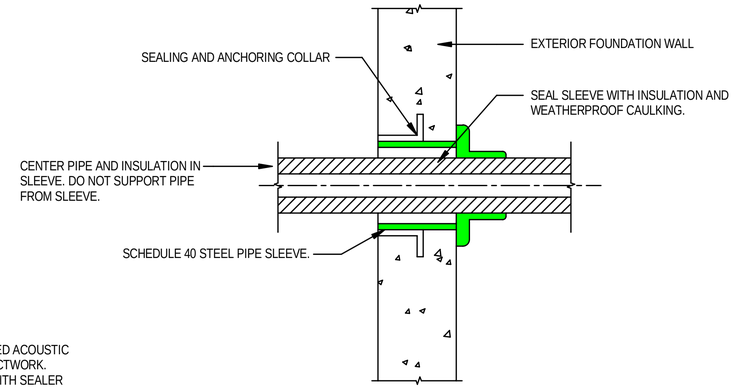
SHEET NUMBER:

M3-21



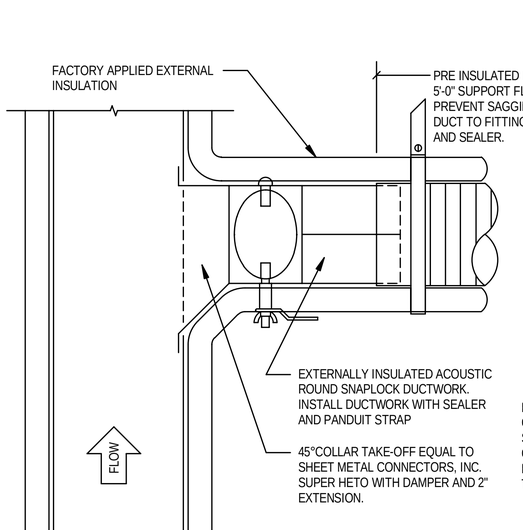
1 DUCT ROUND TAKEOFF TO DIFFUSER DETAIL

NOT TO SCALE



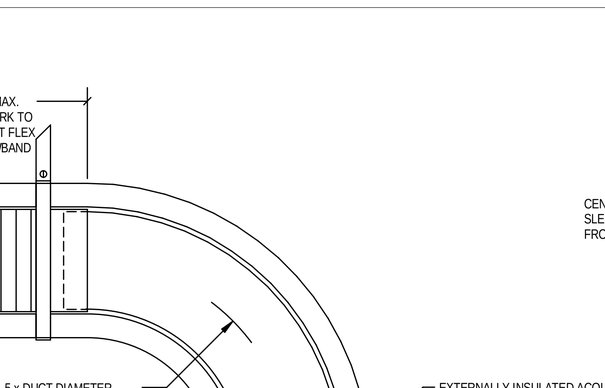
2 PIPE EXTERIOR PENETRATION DETAIL

NOT TO SCALE



4 DUCT RECTANGULAR BRANCH TAKEOFF DETAIL

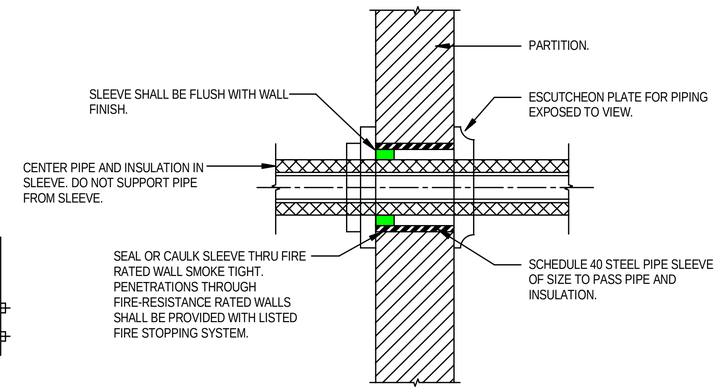
NOT TO SCALE



DUCTWORK SUPPORT	
DUCTWORK TYPE	MAX. HANGER SPACING
HORIZONTAL DUCTS LESS THAN 4 SQ FT	8 FT
HORIZONTAL DUCTS 4 TO 10 SQ FT	6 FT
HORIZONTAL DUCTS GREATER THAN 10 SQ FT	4 FT
VERTICAL ROUND DUCTS	12 FT
VERTICAL RECTANGULAR DUCTS	10 FT

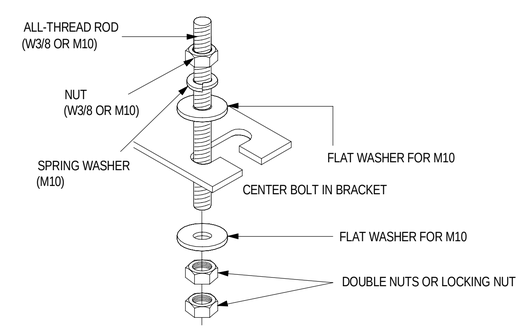
5 DUCT HANGER DETAIL

NOT TO SCALE



3 PIPE INTERIOR PENETRATION DETAIL

NOT TO SCALE



6 TYPICAL EQUIPMENT HANGING DETAIL

NOT TO SCALE

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SPRINGFIELD CITY COMPLEX

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1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

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Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

FIRE STATION DETAILS

SHEET NUMBER:

M3-50

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:58 AM

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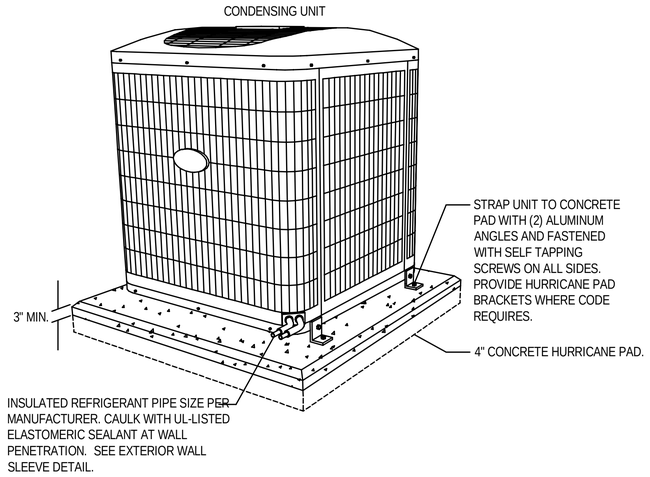
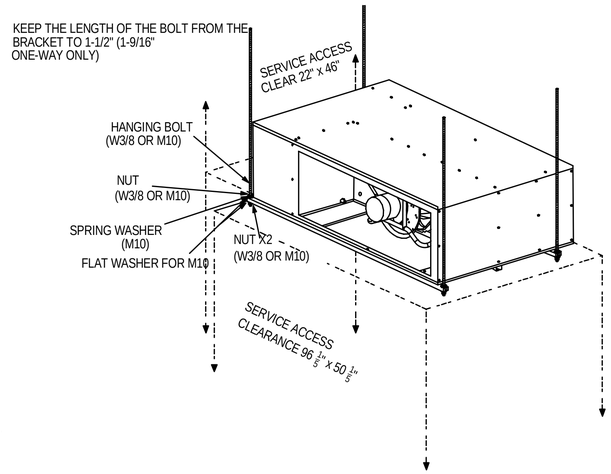


NOTE: SIZE CONCRETE PAD 6" LARGER THAN UNIT ON ALL SIDES.

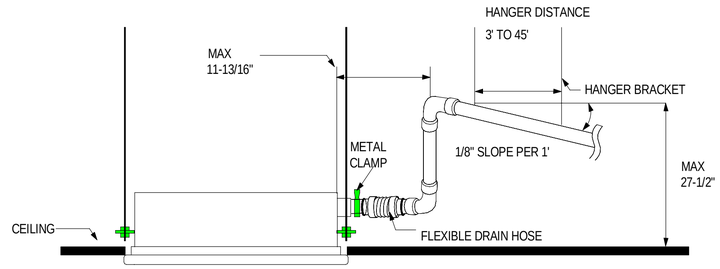
1 TYPICAL HEAT PUMP MOUNTING DETAIL

NOT TO SCALE



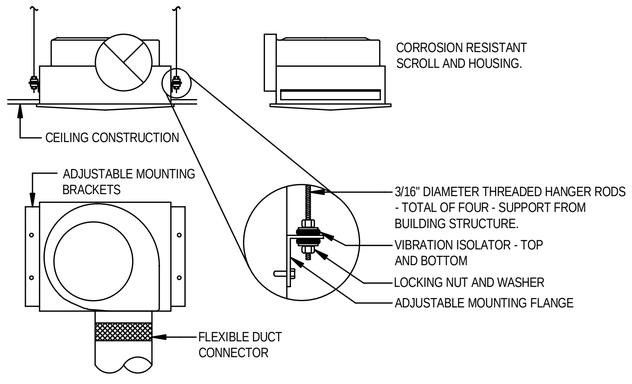
2 TYPICAL DOAS MOUNTING DETAIL

NOT TO SCALE



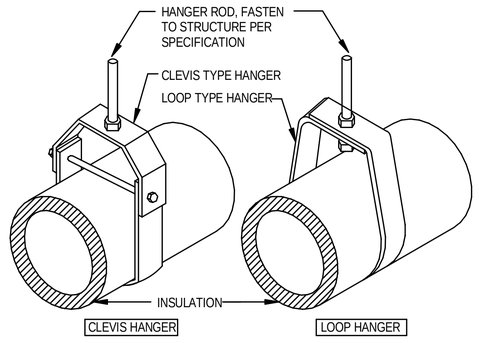
3 TYPICAL CASSETTE CONDENSATE PIPING DETAIL

NOT TO SCALE



4 CEILING EXHAUST FAN DETAIL

NOT TO SCALE



NOTE:
PIPE HANGARS SHALL BE LOCATED IAW MSS SP-69, TABLE 3 AND AT ALL CHANGES IN DIRECTION. HANGERS SHALL BE PAINTED. PIPE COVERING PROTECTION SADDLE.

5 PIPE HANGER DETAIL

NOT TO SCALE

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DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

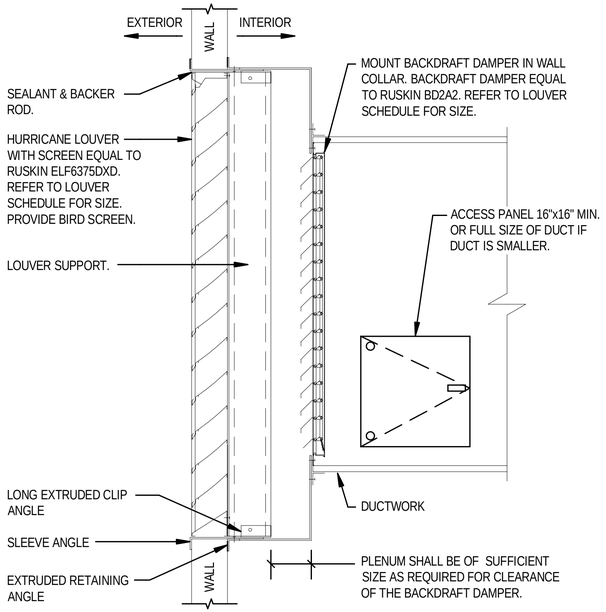
This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C. Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

SHEET TITLE:
FIRE STATION DETAILS CONT.

SHEET NUMBER:
M3-51

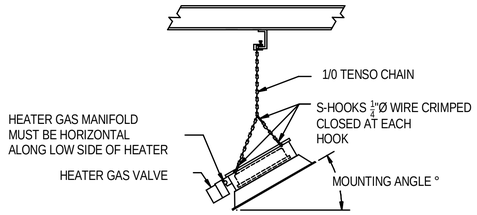
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:32:59 AM

ISSUED FOR BIDS-AUGUST 2024



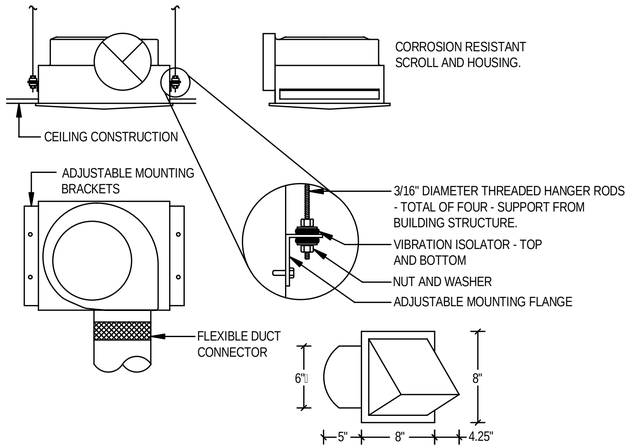
1 WALL MOUNTED EXHAUST FAN DETAIL

NOT TO SCALE



2 TYPICAL RADIANT HEATER MOUNTING DETAIL

NOT TO SCALE



3 CEILING EXHAUST FAN DETAIL

NOT TO SCALE

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

FIRE STATION DETAILS CONT.

SHEET NUMBER:

M3-52

8/6/2024 8:32:59 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024

FIRE STATION DOAS SCHEDULE

MARK	#	TYPE	AIR FLOW CFM	COOLING CAPACITY (MBH)	COOLING ENTERING AIR DB °F / WB °F	COOLING LEAVING AIR DB °F	HEATING CAPACITY (MBH)	HEATING ENTERING AIR DB °F	REHEAT LEAVING AIR DB °F	REFRIGERANT TYPE	CONTROLS	FAN QTY	FAN DRIVE	FAN ESP	SOUND POWER DB(A)	RLA	MCA	MOP	ELEC V/ф/hz	BASIS OF DESIGN		NOTES
																				MAKE	MODEL	
DOAS	3	HORIZ. DEDICATED OUTSIDE AIR	1090	98.8	93.0 / 78.0	51.0	52.9	25.0	70	R410A	EEV	1	DIRECT	1.5"	75	6.0	7.5	15	208-230/1/60	LG	ARND153DCR4	REFER TO ALL NOTES

1. PROVIDE HOT GAS REHEAT.
2. PROVIDE CONDENSATE PUMP.

FIRE STATION FCU SCHEDULE

MARK	#	TYPE	AIR FLOW	OUTSIDE AIR FLOW	COOLING LOAD (MBH)	HEATING LOAD (MBH)	REFRIGERANT		FAN QTY	FAN DRIVE	FAN ESP	ELECTRICAL				BASIS OF DESIGN		NOTES
							TYPE	EXPANSION DEVICE				RLA	MCA	MOP	ELEC V/ф/hz	MAKE	MODEL	
FCU	300	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	8.2	8.8	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	1,2,3,4,6,7,8,9,10
FCU	301	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.1	0.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	302	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.9	0.5	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	303A	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	0.7	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	303B	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	0.7	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	304A	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	7.5	2.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	1,2,3,4,6,7,8,9,10
FCU	304B	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	7.6	2.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	1,2,3,4,6,7,8,9,10
FCU	305	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.1	1.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	307	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.9	2.3	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	308	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.1	1.3	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	309	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.4	1.3	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	310	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.9	1.4	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	311	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.9	0.3	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	312	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	6.6	2.6	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	1,2,3,4,6,7,8,9,10
FCU	313A	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	25 CFM	7.2	0.8	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES
FCU	313B	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	25 CFM	7.2	0.8	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES
FCU	313C	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	25 CFM	7.2	0.8	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES
FCU	314A	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	20 CFM	4.5	1.4	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	314B	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	4.5	1.4	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	1,2,3,4,6,7,8,9,10
FCU	314C	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	0 CFM	4.5	1.4	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	1,2,3,4,6,7,8,9,10
FCU	315	2'x2' FOUR-WAY CEILING CASSETTE	385 CFM	0 CFM	15.1	1.5	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU153TRD4	1,2,3,4,6,7,8,9,10
FCU	316	WALL MOUNTED	250 CFM	0 CFM	2.3	1.2	R410A	EEV	1	DIRECT	-	0.25	0.32	15	208-230/1/60	LG	ARNU053SJA4	1,2,3,4,6,7,8,9,10
FCU	318	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.2	0.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	320	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.0	0.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	322	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.9	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	323	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.9	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	326	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.9	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	327	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.9	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	328	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.9	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	333	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.8	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	334	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.4	0.7	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	335	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	4.6	0.7	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	336	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.1	1.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES

1. PROVIDE WALL MOUNTED HARD WIRED TEMPERATURE SENSOR.
2. PROVIDE UNIT WITH DRAIN PAN AND CONDENSATE LIFT PUMP AND SAFETY SWITCH.
3. PROVIDE UNIT WITH STANDARD FILTER.
4. PIPE ALL CONDENSATE FROM UNITS TO APPROPRIATE DRAIN LOCATION.
5. PROVIDE PTVK430 VENTILATION FLANGE.
6. ADJUST LOCATION OF UNITS AS REQUIRED FOR SERVICE AS RECOMMENDED BY MANUFACTURER.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT IN THE POWER WIRING SYSTEM THROUGH A CIRCUIT BREAKER. POWER WIRING IS FIELD SUPPLIED. WIRE SIZE IS SELECTED BASED ON THE LARGER MCA VALUE, AND MUST COMPLY WITH APPLICABLE LOCAL AND NATIONAL CODES.
8. CONTROLS CONTRACTOR SHALL PROVIDE COMMUNICATION CABLE FROM THE OUTDOOR UNIT USING THE DESIGNATED PATH IN THE VRF FAN COIL UNIT.
9. ALL FAN COILS, BRANCH SELECTOR BOXES, OUTDOOR UNITS, AND DEDICATED OUTSIDE AIR SYSTEMS SHALL COMMUNICATE WITH ONE CENTRAL CONTROLLER, WHICH SHALL COMMUNICATE WITH A CENTRAL STATION WHOSE LOCATION SHALL BE CHOSEN BY THE OWNER. THE CENTRAL STATION SHALL BE CAPABLE OF MONITORING AND SETPOINT CONTROL FOR ALL FOUR BUILDINGS' VRF SYSTEMS.
10. PROVIDE UNIT CAPABLE OF HEAT RECOVERY.

FIRE STATION BRANCH SELECTOR SCHEDULE

MARK	#	REFRIGERANT DATA			ELECTRICAL DATA				BASIS OF DESIGN	
		REFRIGERANT CIRCUITS	TYPE	CONTROL	FLA	MCA	MOCP	V/ф/HZ	MAKE	MODEL
BS	3.1	6	R410A	EEV	0.09	0.75	15	208-230/3/60	LG	PRHR063A
BS	3.2	6	R410A	EEV	0.09	0.75	15	208-230/3/60	LG	PRHR063A
BS	3.3	8	R410A	EEV	0.09	0.75	15	208-230/1/60	LG	PRHR083A
BS	3.4	8	R410A	EEV	0.09	0.75	15	208-230/1/60	LG	PRHR083A
BS	3.5	4	R410A	EEV	0.06	0.75	15	208-230/1/60	LG	PRHR043A

FIRE STATION HRU SCHEDULE

MARK	#	REFRIGERANT DATA				REFRIGERANT DATA				ELECTRICAL				BASIS OF DESIGN		NOTES
		MAX UNIT CAPACITY MBH	EER	IEER	COP AT 17°F AMBIENT	COMPRESSOR QTY	TYPE	EXPANSION DEVICE	FAN QTY	RLA	MCA	MOCP	V/ф/hz	MAKE	MODEL	
HRU	3.1	192	12.4	25.9	2.64	2	R-410A	EEV	2	52.1	57.9	80	208-230/3/60	LG	ARUM192BTE5	REFER TO ALL NOTES
HRU	3.2	119.7	11.0	11.8	2.74	1	R-410A	EEV	2	26.3	30.9	40	208-230/3/60	LG	ARUM121BTE5	REFER TO ALL NOTES

1. PROVIDE AND SECURE TO 4" THICK CONCRETE HURRICANE PAD. PAD SHALL EXTEND 6" BEYOND HRU.
2. PROVIDE WITH INTEGRATED 120 VOLT RECEPTICLE.
3. PROVIDE WITH CORROSION RESISTANT COIL COATING.
4. PROVIDE WITH LOW AMBIENT KIT.
5. PROVIDE UNIT CAPABLE OF HEAT RECOVERY.

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
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PROJECT ARCHITECT: THOMAS JARMAN
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SHEET TITLE:

FIRE STATION VRF SYSTEM SCHEDULES

SHEET NUMBER:

M3-60

FIRE STATION CEILING EXHAUST FAN SCHEDULE

MARK	#	TYPE	CFM	ESP	MOTOR					SOUND LEVEL SONNES	BASIS OF DESIGN		NOTES
					DRIVE	ELECTRICAL							
						RLA	MCA	MOCP	ELEC V/ф/HZ		MAKE	MODEL	
EF	306	CEILING	70	0.25	DIRECT	0.23	0.29	15	115/1/60	2.7	GREENHECK	SP-B90	2,3,4,5,6
EF	312	CEILING	50	0.25	DIRECT	0.29	0.37	15	115/1/60	2.0	GREENHECK	SP-LP0511	2,3,4,5,6
EF	313	HOOD	150	0.25	DIRECT	0.65	0.82	15	115/1/60	6.0	BROAN	BCDF130SS	2,3,4,5,6
EF	317	CEILING	50	0.25	DIRECT	0.15	0.19	15	115/1/60	1.6	GREENHECK	SP-B70	1,4,5,6
DF	318	IN-LINE	160	0.05	DIRECT	0.48	0.6	15	115/1/60	-	FANTECH	DBF-110	-
EF	321	CEILING	70	0.25	DIRECT	0.19	0.24	15	115/1/60	1.9	GREENHECK	SP-B90	2,3,4,5,6
EF	324	CEILING	70	0.25	DIRECT	0.19	0.24	15	115/1/60	1.9	GREENHECK	SP-B90	2,3,4,5,6
EF	325	CEILING	70	0.25	DIRECT	0.19	0.24	15	115/1/60	1.9	GREENHECK	SP-B90	2,3,4,5,6
EF	329	CEILING	90	0.25	DIRECT	0.15	0.19	15	115/1/60	0.5	GREENHECK	SP-A110	2,3,4,5,6
EF	331	CEILING	70	0.25	DIRECT	0.29	0.37	15	115/1/60	2.0	GREENHECK	SP-B90	2,3,4,5,6
EF	336	CEILING	50	0.25	DIRECT	0.15	0.19	15	115/1/60	1.6	GREENHECK	SP-B70	2,3,4,5,6

1. FAN SHALL BE ENABLED ANY TIME THE BUILDING IS OCCUPIED.
2. FAN SHALL BE ENABLED AND DISABLED THROUGH A SWITCH OR SENSOR IN THE SERVED SPACE.
3. CEILING EXHAUST FANS CONTROLLED BY OCCUPANCY SENSORS SHALL RUN AN ADJUSTABLE TIME LIMIT ONCE NO PERSON HAS BEEN DETECTED IN THE SPACE. THIS TIME LIMIT SHALL BE DETERMINED BY OWNER.
4. PROVIDE VOLUME DAMPER.
5. PROVIDE BACKDRAFT DAMPER.
6. FAN SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER.

FIRE STATION WALL MOUNTED EXHAUST FAN SCHEDULE

MARK	#	TYPE	MAX FLOW CFM	ESP	MOTOR				INLET SONNES	CONTROLS	BASIS OF DESIGN		NOTES
					DRIVE	ELECTRICAL							
						MOTOR HP	OPERATING HP	ELEC V/ф/HZ			MAKE	MODEL	
EF	330A	EXT. WALL MOUNTED	2060	1.0	DIRECT	1	0.62	208-230/3/60	12.7	BAS	GREENHECK	CUE-18HP-VG	1,2
EF	330B	EXT. WALL MOUNTED	2060	1.0	DIRECT	1	0.62	208-230/3/60	12.7	BAS, CO/NO2 SENSOR	GREENHECK	CUE-18HP-VG	2,3

1. FAN SHALL BE ENABLED ANY TIME THE BUILDING IS OCCUPIED.
2. PROVIDE BACKDRAFT DAMPER.
3. FAN ACTIVATED BY SIGNAL FROM CO/NO2 SENSOR

FIRE STATION LOUVER SCHEDULE

TYPE	#	AIR FLOW	SIZE		FREE AREA	AIR VELOCITY	PRESSURE DROP	BASIS OF DESIGN		NOTES
			INLET WIDTH	INLET HEIGHT				MAKE	MODEL	
LVR-OA	316	1090 CFM	40"	16"	3.11 FT²	351 FPM	0.02"	RUSKIN	ELF6375DXD	1,2,3
LVR-EA	312	440 CFM	24"	12"	0.79 FT²	558 FPM	0.04"	RUSKIN	ELF6375DXD	1,2,3
LVR-EA	313	150 CFM	16"	12"	0.5 FT²	300 FPM	0.03"	RUSKIN	ELF6375DXD	1,2,3
LVR-EA	329	90 CFM	12"	12"	0.22 FT²	410 FPM	0.05"	RUSKIN	EME420MD	1,2,3
LVR-EA	331	70 CFM	12"	12"	0.22 FT²	318 FPM	0.03"	RUSKIN	EME420MD	1,2,3
LVR-EA	334	350 CFM	20"	12"	0.74 FT²	472 FPM	0.04"	RUSKIN	ELF6375DXD	1,2,3
LVR-EA	336	50 CFM	12"	12"	0.22 FT²	230 FPM	0.03"	RUSKIN	EME420MD	1,2,3

1. PROVIDE ALUMINUM BIRD SCREEN
2. LOUVER SHALL BE HURRICANE RATED AND MIAMI DADE COUNTY APPROVED.
3. SEE SPEC FOR FINISH

FIRE STATION GAS RADIANT HEATER SCHEDULE

MARK	#	FUEL TYPE	HEATING CAPACITY(MBH)	MOUNTING ANGLE	HEIGHT AFF	BASIS OF DESIGN		NOTES
						MAKE	MODEL	
GH	3.1	NATURAL GAS	35	30.00°	10' - 0"	SOLARONICS	K-35	1,2,3,4
GH	3.2	NATURAL GAS	35	30.00°	10' - 0"	SOLARONICS	K-35	1,2,3,4
GH	3.3	NATURAL GAS	30	30.00°	10' - 0"	SOLARONICS	K-30	1,2,3,4
GH	3.4	NATURAL GAS	30	30.00°	10' - 0"	SOLARONICS	K-30	1,2,3,4
GH	3.5	NATURAL GAS	30	30.00°	10' - 0"	SOLARONICS	K-30	1,2,3,4
GH	3.6	NATURAL GAS	30	30.00°	10' - 0"	SOLARONICS	K-30	1,2,3,4
GH	3.7	NATURAL GAS	30	30.00°	10' - 0"	SOLARONICS	K-30	1,2,3,4
GH	3.8	NATURAL GAS	30	30.00°	10' - 0"	SOLARONICS	K-30	1,2,3,4

1. INSTALL PER MANUFACTURERS INSTRUCTIONS.
2. PROVIDE GAS SUPPLY FLEX CONNECTOR.
3. PROVIDE HARD WIRED THERMOSTAT.
4. PROVIDE CHAIN MOUNTING KIT

FIRE STATION CEILING HEATER SCHEDULE

MARK	#	MOUNTING	HEATING KW	ELECTRICAL				BASIS OF DESIGN		NOTES
				RLA	MCA	MOCP	V/ф/HZ	MAKE	MODEL	
CH	429	CEILING	1.5	12.5	16	20	120/1/60	OUELLET	OACP	1,2
CH	431	CEILING	1.5	12.5	16	20	120/1/60	OUELLET	OACP	1,2

1. PROVIDE WITH CEILING MOUNT ACCESSORY KIT
2. PROVIDE WITH HARD WIRED THERMOSTAT.

FIRE STATION DEHUMIDIFIER SCHEDULE

Mark	#	LATENT CAPACITY PPD	ELECTRICAL				BASIS OF DESIGN	
			RLA	MCA	MOCP	ELEC V/ф/HZ	MAKE	MODEL
DEH	332	70	6.6	8.25	15	120/1/60	HONEYWELL	TP70WKN

FIRE STATION AIR TERMINALS

TYPE	#	Air Flow	NECK SIZE	Module Size	NOISE CRITERIA (dB)	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL
CD	300	40 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	304	160 CFM	8"ø	24" x 24"	16	TITUS	TMSA
CD	312	40 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	314	125 CFM	6"ø	24" x 24"	16	TITUS	TMSA
CD	319	30 CFM	4"ø	24" x 24"	-	TITUS	TMSA
CD	321	60 CFM	4"ø	24" x 24"	20	TITUS	TMSA
CD	324	60 CFM	4"ø	24" x 24"	20	TITUS	TMSA
CD	325	60 CFM	4"ø	24" x 24"	20	TITUS	TMSA
TG	318A	1700 CFM	22"x22"	24" x 24"	-	TITUS	350-FL
TG	318B	1700 CFM	22"x22"	24" x 24"	-	TITUS	350-FL
TG	329	90 CFM	28"x6"	28"x6"	15	PRICE	ATG1
TG	331	70 CFM	20"x6"	20"x6"	-	PRICE	ATG1
TG	334	330 CFM	38"x14"	38"x14"	22	PRICE	ATG1

FIRE STATION CIRCULATION FAN SCHEDULE

MARK	#	FAN DIAMETER	ELECTRICAL DATA		BASIS OF DESIGN		NOTES
			MOTOR HP	MOTOR V/PH/HZ	MAKE	MODEL	
CF	3.1	14'-0"	1.5	200-240/1/60	BIG ASS FANS	POWERFOIL X3.0	1,2
CF	3.2	14'-0"	1.5	200-240/1/60	BIG ASS FANS	POWERFOIL X3.0	1,2
CF	3.3	14'-0"	1.5	200-240/1/60	BIG ASS FANS	POWERFOIL X3.0	1,2

1. PROVIDE WITH SPEED CONTROL.
2. INTEGRATE TO AND ENABLE/DISABLE WITH BAS.

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SPRINGFIELD CITY COMPLEX

City of Springfield
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DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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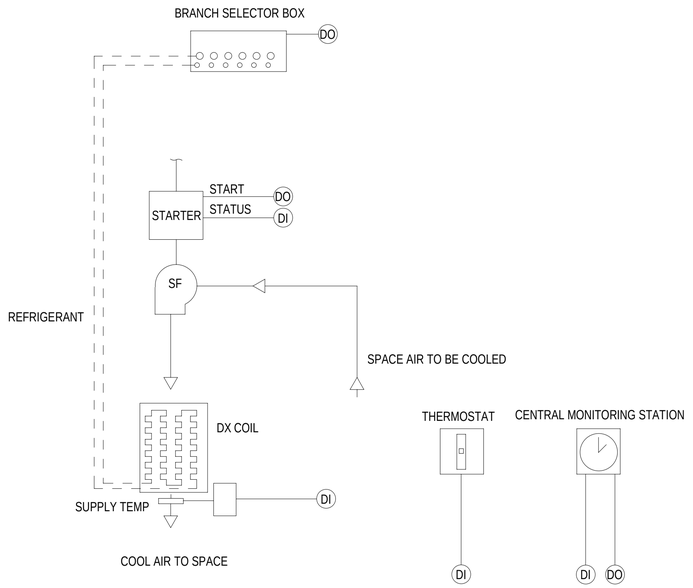
SHEET TITLE:

FIRE STATION HVAC AIR TERMINALS AND EQUIPMENT SCHEDULES

SHEET NUMBER:

M3-61



1. ALL FOLLOWING SETPOINTS SHALL BE ADJUSTABLE.

2. ALL FAN COIL UNITS SHALL REPORT TO ONE CENTRAL DDC MONITORING STATION. LIVE DATA FOR ALL OUTPUTS AND INPUTS IN THE ABOVE CONTROL DIAGRAM SHALL HAVE THE ABILITY TO BE MONITORED FROM THE CENTRAL DDC STATION.

3. UPON ENTERING THE OCCUPANCY TIME PERIOD, ALL FAN COIL FANS SHALL START. FANS SHALL NOT DISABLE UNTIL THE BUILDING ENTERS UNOCCUPIED MODE OR A FIRE ALARM SIGNAL IS PRESENT.

4. WHEN IN OCCUPIED MODE, THE FAN COIL SHALL CONTROL THE SPACAE TEMPERATURE TO BE WITHIN GHTE COOLING AND HEATING SETPOINTS.

5. WHEN SYSTEM IS IN UNOCCUPIED MODE, THE SYSTEM SHALL OCNTROL THE SPACE TEMPERATURE TO THE NIGHT SETBACK COOLING AND HEATING SETPOINTS.

6. WHEN STEPOINT IS MET AND THE UNIT IS IN UNOCCUPIED MODE, THE FAN SHALL STOP.

7. AT ANY TIME (OCCUPIED OR UNOCCUPIED) THE RH IS ABOVE 60% (ADJ.): DOAS SHALL START, ALL FAN COILS SHALL START, AND DOAS SHALL COOL OUTSIDE AIR TO 51°F AND REHEAT TO 70°F VIA HOT GAS REHEAT. THIS OPERATION SHALL CONTINUE UNTIL SPACE HUMIDITY REACHES 55% RH (ADJ.), AFTER WHICH FAN COILS AND DOAS SHALL RESUME THEIR PREVIOUS OPERATIONS BASED ON THE TIME OF DAY SCHEDULING.

8. ALL FAN COILS SHALL DISABLE UPON A SIGNAL FROM THE FIRE ALARM PANEL.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
COOLING SETPOINT:	72 °F (ADJ.)
HEATING SETPOINT:	68°F (ADJ)
NSB COOLING SETPOINT:	80°F (ADJ)
NSB HEATING SETPOINT:	55°F (ADJ.)

MECHANICAL CONTROLS DIAGRAM - VRF FAN COILS

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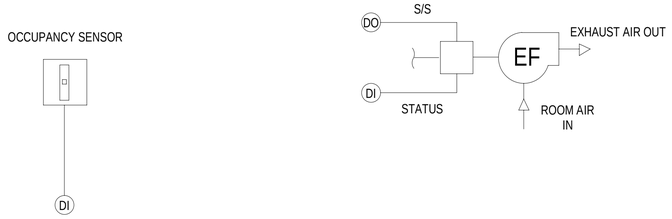
SHEET TITLE:

FIRE STATION
FCU VRF
CONTROLS

SHEET NUMBER:

M3-62

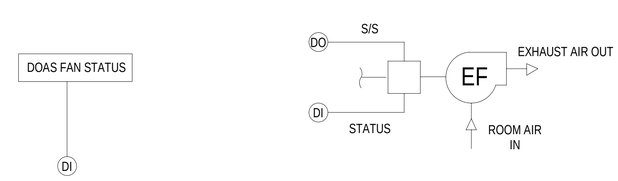


1. EXHAUST FANS START WITH THE INPUT FROM THE OCCUPANCY SENSOR IN THE SPACE.

2. EXHAUST FANS SHALL STOP AFTER NO PERSON HAS BEEN DETECTED IN THE SPACE FOR 5 CONSECUTIVE MINUTES.

MECHANICAL CONTROL DIAGRAM - EXHAUST FAN OCCUPANCY SENSOR

EF-306,EF-329,EF-331

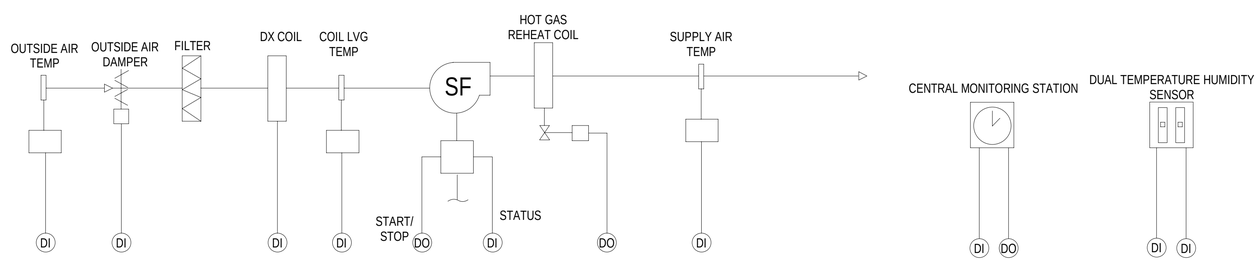


1. EXHAUST FANS START WITH THE INPUT FROM THE OCCUPANCY SENSOR IN THE SPACE.

2. EXHAUST FANS SHALL STOP AFTER NO PERSON HAS BEEN DETECTED IN THE SPACE FOR 5 CONSECUTIVE MINUTES.

MECHANICAL CONTROL DIAGRAM - INTERLOCKED EXHAUST FAN

EF-312,EF-317,EF-321,EF-324,EF-325,EF-336



1. ALL SETPOINTS BELOW SHALL BE ADJUSTABLE.

2. ALL DOAS UNITS SHALL REPORT TO ONE CENTRAL DDC MONITORING STATION. LIVE DATA FOR ALL OUTPUTS AND INPUTS IN THE ABOVE CONTROL DIAGRAM SHALL HAVE THE ABILITY TO BE MONITORED FROM THE CENTRAL DDC STATION.

3. DOAS SHALL BE SCHEDULED FROM THE CENTRAL DDC STATION.

4. DOAS SHALL ALWAYS BE ENABLED DURING THE OCCUPIED TIME FRAME.

5. WHEN ENABLED, THE TWO-POSITION OUTSIDE AIR DAMPER SHALL OPEN, THE FAN SHALL START, AND THE ASSOCIATED HEAT RECOVERY UNIT SHALL ENABLE.

7. WHEN THE BUILDING BECOMES UNOCCUPIED, ASSOCIATED HEAT RECOVERY UNIT SHALL DISABLE, DOAS FAN SHALL DISABLE, AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

8. OCCUPANCY SCHEDULE SHALL BE SET BY OWNER.

9. AT ANY TIME (OCCUPIED OR UNOCCUPIED) THE RH IS ABOVE 60% (ADJ.): DOAS SHALL START, ALL FAN COILS SHALL START, AND DOAS SHALL COOL OUTSIDE AIR TO 51°F AND REHEAT TO 70°F VIA HOT GAS REHEAT. THIS OPERATION SHALL CONTINUE UNTIL SPACE HUMIDITY REACHES 55% RH (ADJ.), AFTER WHICH FAN COILS AND DOAS SHALL RESUME THEIR PREVIOUS OPERATIONS BASED ON THE TIME OF DAY SCHEDULING.

10. DOAS SHALL BE INTERLOCKED WITH THE FIRE ALARM RELAY.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
COOLING COIL LEAVING AIR TEMPERATURE SETPOINT:	51°F
DISCHARGE AIR TEMPERATURE SETPOINT:	70°F
MAX SPACE HUMIDITY SETPOINT:	60%RH (ADJ.)

MECHANICAL CONTROL DIAGRAM - DOAS

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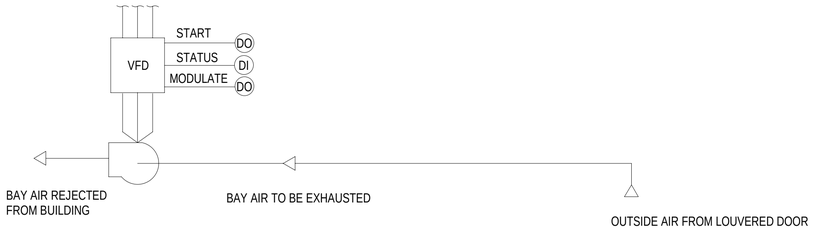
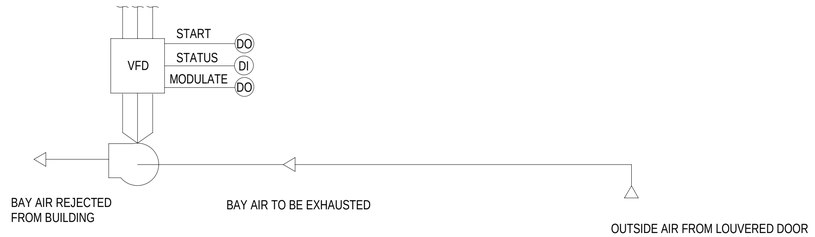
SHEET TITLE:

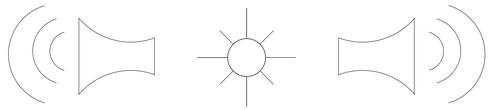
FIRE STATION DOAS AND EXHAUST FAN CONTROLS

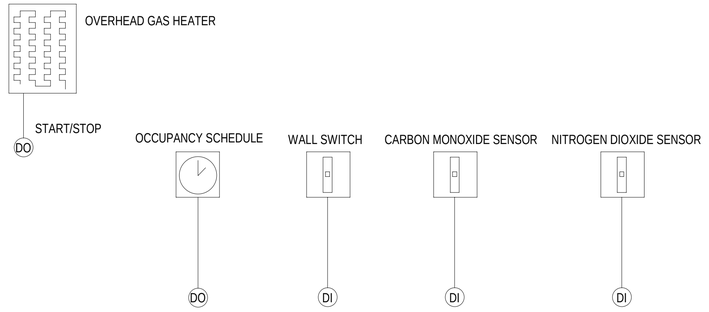
SHEET NUMBER:

M3-63









1. BOTH FANS SHALL BE STARTED AND STOPPED THROUGH AN OCCUPANCY SCHEDULE, HEAT CALL, OR AN EMERGENCY PURGE SIGNAL.

2. APPARATUS BAY EXHAUST FANS SHALL RUN CONTINUOUSLY ANY TIME THE APPARATUS BAY IS SCHDULED TO BE OCCUPIED.

3. WHEN NOT IN PURGE MODE, ALL EXHAUST FANS SHALL RUN AT SPEED REQUIRED TO SUPPLY THE MINIMUM VENTILATION FLOW RATE.

4. WHEN CARBON MONOXIDE OR NITROGEN DIOXIDE REACH ALARM LEVELS, ALL BAY FANS SHALL ENTER PURGE MODE AND RAMP TO EXHAUST AT THE PURGE MODE VENTILATION AIR FLOW RATE UNTIL NO GAS SENSOR HAS DETECTED GAS AT ALARM LEVELS FOR A TIME PERIOD SET BY OWNER. AN AUDIBLE AND VISUAL ALARM SHALL BE INDICATED IN THE APPARATUS BAY TO WARN OCCUPANTS OF PURGE MODE OPERATION.

5. HEATERS SHALL BE ENABLED THROUGH A WALL SWITCH. THERE SHALL BE ONE SWITCH FOR EACH HEATER. EACH SWITCH SHALL ENABLE ONE HEATER.

6. HEATERS SHALL NOT START UNTIL BOTH EXHAUST FANS ARE AT MINIMUM HEATING VENTILATION SPEED.

7. OCCUPANCY SCHEDULE SHALL BE SET BY THE OWNER.

8. FANS SHALL STOP WHEN BUILDING IS UNOCCUIPED.

9. GAS PURGE OPERATION SHALL PERSIST DURING UNOCCUPIED MODE.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
NO_2 PURGE	1 PPM
CO PURGE	25 PPM
MINIMUM VENTILATION AIR FLOW RATE PER FAN	420 CFM
HEATING VENTILATION AIR FLOW RATE PER FAN	500 CFM
PURGE MODE VENTILATION AIR FLOW RATE PER FAN	2060 CFM

MECHANICAL CONTROLS DIAGRAM - SPRINGFIELD FIRE STATION APPARATUS BAY

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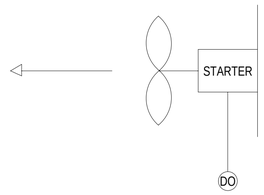
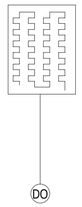
SHEET TITLE:
FIRE STATION APPARATUS BAY HEAT AND EXHAUST CONTROLS

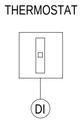
SHEET NUMBER:
M3-64



1. CIRCULATION FANS SHALL START AND STOP WITH THE INPUT FROM THE BAS.

CIRCULATION FANS CONTROL SEQUENCE

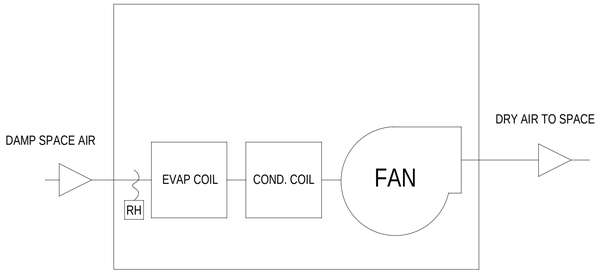




CONTROL SETPOINT TABLE	
CONTROL POINT:	SETPOINT:
HEATING TEMPERATURE SETPOINT:	68°F (ADJ.)
NIGHT SETBACK TEMPERATURE SETPOINT:	55°F (ADJ.)

1. BATHROOM HEATERS SHALL BE ENABLED AND DISABLED BY THERMOSTAT IN THE SPACE.
2. HEATER SHALL CONTROL SPACE TEMPERATURE TO SPACE HEATING SETPOINT.

BATHROOM HEATER CONTROL SEQUENCE



CONTROL SETPOINT TABLE	
CONTROL POINT:	SETPOINT:
SPACE MAX HUMIDITY SETPOINT:	55% RH (ADJ.)

1. DEHUMIDIFIER SHALL START AND STOP BASED ON THE INPUT FROM AN INTEGRATED HUMIDITY SENSOR.
2. DEHUMIDIFIER SHALL LIMIT THE RELATIVE HUMIDITY OF THE SPACE TO THE SPACE MAX HUMIDITY SETPOINT.

PACKAGED DEHUMIDIFIER CONTROL SEQUENCE

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SHEET TITLE:

FIRE STATION
CIRCULATION
MISC.
CONTROLS
SEQUENCES

SHEET NUMBER:

M3-65

HVAC GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE HARD SUSPENDED CEILING, OR ACOUSTICAL CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. COORDINATE LOCATION WITH MECHANICAL INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. LOSS FOR FILTERS SHALL BE FOR FILTERS AT 50% LOADING. SOUND POWER LEVEL OF THE FANS MUST NOT EXCEED 85 dBA WHEN TESTED ACCORDING TO AMCA STANDARDS.
5. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
6. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES. DIFFUSER SHALL MINIMIZE CEILING SMUDGING.
7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
9. INSTALL A COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
10. CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
11. INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
12. THE APPROXIMATE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN WHERE APPLICABLE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND PROTECT BEFORE COMMENCING WORK.
13. COORDINATE EQUIPMENT CLEARANCES (AS RECOMMENDED BY MANUFACTURER) WITH ALL DISCIPLINES BEFORE INSTALLATION.
14. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT, VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
15. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT, MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 IN. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 IN. ON ALL SIDES.
16. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT.
17. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DECTECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK THAT REQUIRE SERVICE AND/OR INSPECTION. PROVIDE DUCT ACCESS DOORS AT REGULAR INTERVALS TO FACILITATE THE CLEANING OF DUCT SYSTEMS.
18. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UPSTREAM AND DOWNSTREAM AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
19. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
20. LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
21. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH AN APPROVED PRODUCT.
22. ALL EQUIPMENT REQUIRING CONDENSATE DRAIN LINES SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, TRAPPED PER MANUFACTURERS DETAILS FOR ACTUAL EQUIPMENT AND STATIC PRESSURE. CONDENSATE SHALL BE PIPED TO THE NEAREST DRAIN AS INDICATED. PROVIDE CONDENSATE PUMPS AS REQUIRED.
23. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
24. THERMOSTATS INDICATED ADJACENT TO DOORWAYS SHALL BE LOCATED WITHIN 18" OF JAMB AT LOCATIONS WITH LIGHT SWITCHES, LOCATE THERMOSTAT SUCH THAT LIGHT SWITCH IS BETWEEN THERMOSTAT AND JAMB. VERIFY THERMOSTAT LOCATION WITH SYSTEM FURNITURE LAYOUT PRIOR TO INSTALLING THERMOSTATS.
25. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
26. PROVIDE ALL 90-DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
27. LAUNDRY EXHAUST SHALL BE OF UNVANED SMOOTH RADIUS CONSTUCTION WITH A RADIUS EQUAL TO 1-1/2" TIMES THE WIDTH OF THE DUCT.
28. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING MOUNTED EQUIPMENT AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
29. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER DIMENSIONS INDICATED DOES NOT INCLUDE FRAME OR FLANGES. APPROXIMATE ROUGH OPENING IN WALL ASSEMBLY IS INDICATED ON ARCHITECTURAL.
30. AVOID ROUTING DUCTWORK AND MECHANICAL EQUIPMENT OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND DUCT INSULATION TO TOP OF LIGHTS. PROVIDE CLEARANCE AND ACCESS ALL AROUND AND BELOW MECHANICAL EQUIPMENT AS REQUIRED FOR ROUTINE MAINTENANCE.
31. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
32. ALL AIR INTAKES OPENING TO EXTERIOR SHALL HAVE A MIN 10'-0" CLEARANCE FROM ANY EXHAUST OPENING TO PREVENT RECIRCULATION.
33. MOUNT DUCTWORK AS HIGH AS POSSIBLE WHERE EXPOSED, UNLESS OTHERWISE NOTED.
34. EXPOSED DUCTWORK SHALL BE DOUBLE-WALL INSULATED WITH A SOLID LINER. PROVIDE GALVANIZED FINISH SUITABLE FOR PAINTING. PRIME AND PAINT TO COLOR SELECTED BY ARCHITECT.
35. ALL ROUND FLEXIBLE DUCT SHALL BE FACTORY PREINSULATED THERMOFLEX OR EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
36. ALL SUPPLY AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. (COMMERCIAL DESIGN)
37. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
38. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
39. EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
40. KITCHEN EXHAUST AIR DUCTWORK AND GREASE LADEN EXHAUST DUCT SHALL BE CONSTRUCTED IAW NFPA 96. HORIZONTAL DUCT RUNS SHALL BE SLOPED BACK TOWARDS HOOD. DUCTWORK SHALL BE STAINLESS STEEL FULLY WELDED LIQUID TIGHT CONSTRUCTION, PROVIDE ACCESS DOORS PER NFPA 96. TRANSITION AND MAKE FINAL CONNECTION TO EXHAUST COLLAR WITH DUCT SIZED PER COLLAR DIMENSIONS ON KITCHEN EQUIPMENT DRAWINGS. APPLY 2HR RATED UL LISTED GREASE DUCT INSULATION.

HVAC LEGEND

- SUPPLY AIR DUCT UP
- SUPPLY AIR DUCT DOWN
- RETURN AIR DUCT UP
- RETURN AIR DUCT DOWN
- EXHAUST AIR DUCT UP
- EXHAUST AIR DUCT DOWN
- DOUBLE WALL DUCTWORK. FIRST FIGURE IS SIDE SHOWN.
- INTERNALLY LINED DUCTWORK. FIRST FIGURE IS SHOWN.
- RECTANGULAR DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. FIRST FIGURE IS SIDE SHOWN.
- OVAL DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. FIRST FIGURE IS SIDE SHOWN.
- ROUND SPIRAL SEAM GALVANIZED STEEL DUCTWORK. SIZE SHOWN IS SHEET METAL DIAMETER.
- FACTORY FABRICATED/INSULATED FLEXIBLE ROUND DUCT, SAME SIZE AS OUTLET DIAMETER.
- ROUND BRANCH DUCT TAKEOFF FROM ROUND DUCT MAIN. BRANCH DUCT SHALL BE ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK OR FLEXIBLE ROUND DUCT. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER.
- ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR DUCT MAIN. BRANCH DUCT SHALL BE ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK OR FLEXIBLE ROUND DUCT. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER.
- RECTANGULAR BRANCH DUCT TAKE OFF FROM RECTANGULAR DUCT MAIN WITH 45° COLLAR AND MANUAL VOLUME DAMPER.
- SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH DOUBLE WALL TURNING VANES.
- LONG RADIUS ELBOW IN RECTANGULAR DUCT.
- RECTANGULAR TO ROUND DUCT TRANSITION.
- RECTANGULAR TO RECTANGULAR DUCT TRANSITION.
- AUTOMATIC OPPOSED BLADE DAMPER
- AUTOMATIC PARALLEL BLADE DAMPER
- MOTORIZED FIRE DAMPER
- ROUND MANUAL VOLUME DAMPER
- RECTANGULAR MANUAL VOLUME DAMPER

- 24"x24" FACE CEILING DIFFUSER EQUAL TO "TITUS TMSA-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- 12"x12" FACE CEILING DIFFUSER EQUAL TO "TITUS TMSA-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- CEILING DIFFUSER EQUAL TO "TITUS 250-AA". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. 4-WAY DIRECTION OF THROW, UNLESS OTHERWISE INDICATED WITH ARROW. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET.
- RETURN AIR CEILING GRILLE EQUAL TO "TITUS 350FL". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID.
- EXHAUST AIR GRILLE EQUAL TO "TITUS 350FL". PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID.
- SIDE WALL MOUNTED SUPPLY REGISTER, EQUAL TO "TITUS FL-25 ".
- SIDE WALL MOUNTED RETURN REGISTER, EQUAL TO "TITUS 350FL".
- SIDE WALL MOUNTED EXHAUST REGISTER, EQUAL TO "TITUS 350FL".
- PIPE UP
- PIPE DN
- PIPE TRANSITION
- UNION
- 1/8" / 12" PIPE SLOPE AND SLOPE DIRECTION

SYMBOLS

- XXX THERMOSTAT WITH UNIT NUMBER
- H HUMIDISTAT
- NO2 NITROGEN DIOXIDE SENSOR
- CO CARBON MONOXIDE SENSOR
- AI ANALOG IN
- AO ANALOG OUT
- DI DIGITAL IN
- DO DIGITAL OUT
- 1 ROUND SHEET NOTE

DETAIL NUMBER 1 / SHEET NUMBER A101 — View Name — 1/8" = 1'-0"

DETAIL NUMBER 1 / SHEET NUMBER A101 R101 / REFERENCE SHEET — View Name — 1/8" = 1'-0"

SECTION NUMBER 1 / SHEET NUMBER A101

SECTION NUMBER 1 / SHEET NUMBER A101 R101 / REFERENCE SHEET

EQUIPMENT ABBREVIATION AHU / EQUIPMENT MARK #

DIFFUSER / GRILLE TAG

INDICATES QTY — TYP. OF 2 — INDICATES DUCT INLET SIZE

INDICATES TYPE — CD | 8"ø / 200 CFM — INDICATES AIR FLOW

LOUVER TAG

INDICATES DUCT DIMENSIONS

INDICATES TYPE — LVR-OA | 10W"X32H" / 1000 CFM — INDICATES AIR FLOW

FAN COIL OUTSIDE AIR TAG

INDICATES QTY — TYP OF 2

EQUIPMENT MARK AND # — FCU 333A / 99 CFM

OUTSIDE AIR SUPPLIED

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

PUBLIC WORKS HVAC LEGENDS & GENERAL NOTES

SHEET NUMBER:

M4-00

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:33:02 AM

ISSUED FOR BIDS-AUGUST 2024

HVAC ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
ACD-TP	AUTOMATIC CONTROL DAMPER, TWO POSITION
AD	ACCESS DOOR
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR-HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AW	AIR WASHER
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BG	BOTTOM GRILLE
BHP	BRAKE HORSEPOWER
BR	BOTTOM REGISTER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CG	CEILING GRILLE
CM	CARBON MONOXIDE
CO	CLEAN OUT
COMP	COMPRESSOR UNIT
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
D	DAMPER - AUTOMATIC
Db	DRY-BULB TEMPERATURE
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
DXCC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
ENT	ENTERING
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
F	FAHRENHEIT
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
GA	GAUGE
GH	GAS HEATER
GPR	GAS PRESSURE REGULATOR
GS	GALVANIZED STEEL
HC	HEATING COIL
HD	HOOD
HOA	HAND/OFF/AUTOMATIC
HP	HORSEPOWER
HRU	HEAT RECOVERY UNIT
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IN	INCHES
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IS	INSECT SCREEN
KW	KILOWATT
KWH	KILOWATT HOUR
L	LITER
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FOOT (FEET)
LH	LATENT HEAT
LSD	LINEAR SLOT DIFFUSER
LVG	LEAVING
LVR	LOUVER
MAX	MAXIMUM
MBH	1,000 BTU/HOUR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NTS	NOT TO SCALE
NSB	NIGHT SETBACK
OA	OUTSIDE AIR
OAD	OUTDOOR AIR DAMPER
OAG	OUTSIDE AIR GRILLE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PG	PRESSURE GAGE
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PPD	PINTS PER DAY
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RAT	RETURN AIR TEMPERATURE
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCR	SILICON CONTROLLED RECTIFIER
SD	SUPPLY AIR DIFFUSER
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SI	SQUARE INCHES
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TG	TRANSFER GRILLE
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
UC	UNDER CUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATOR
VSD	VARIABLE SPEED DRIVE
VUH	VERTICAL UNIT HEATER
W	WATTS
WB	WET-BULB (TEMPERATURE)
WEF	WALL EXHAUST FAN
YR	YEAR

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SPRINGFIELD CITY COMPLEX

City of Springfield
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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
HVAC ABBREVIATIONS

SHEET NUMBER:
M4-01

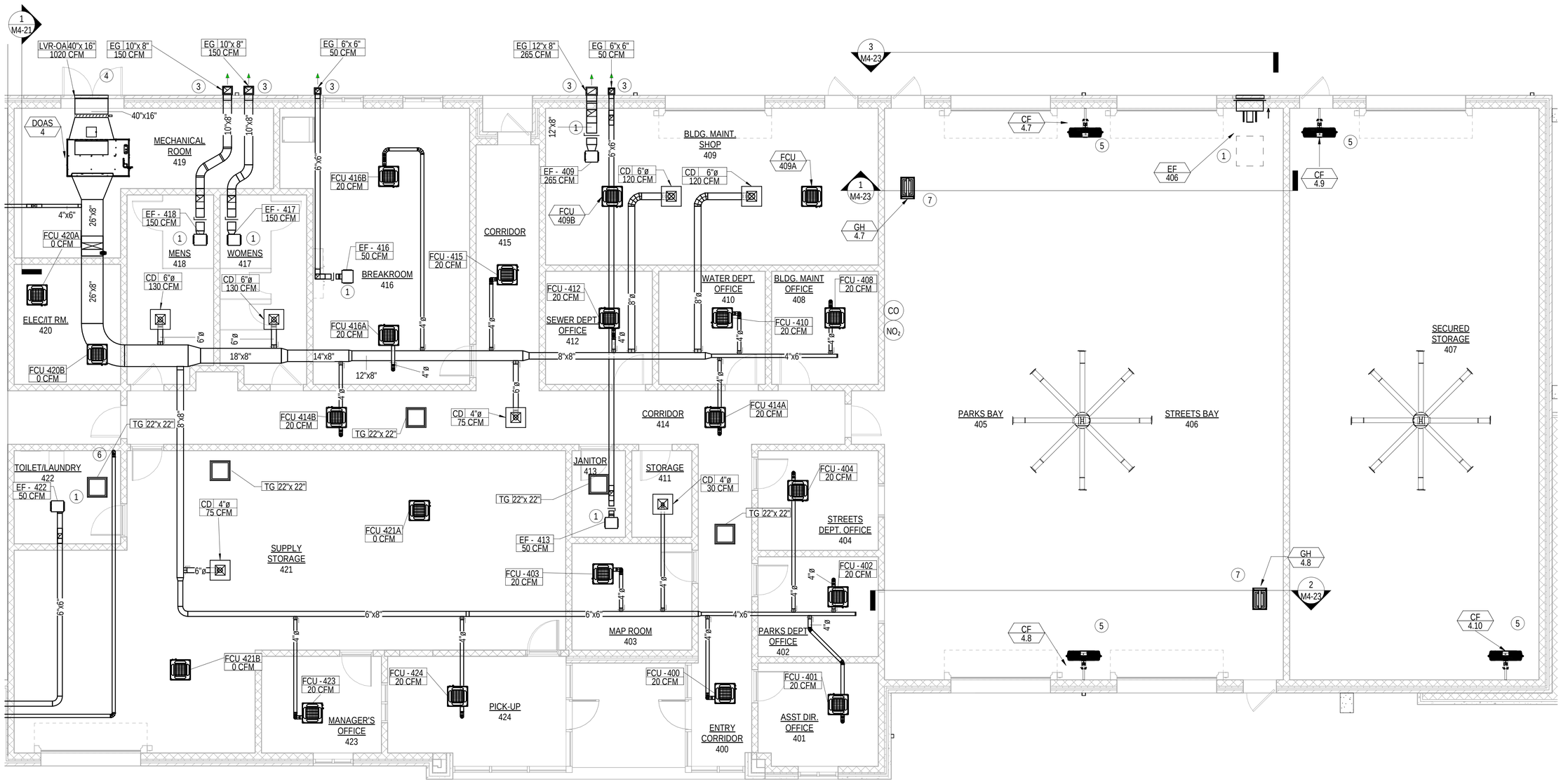
ISSUED FOR BIDS-AUGUST 2024

NOTES

1. ENABLE EXHAUST FAN WITH OCCUPANCY SCHEDULE.
2. ROUTE DUCT ABOVE EXTERIOR WALL AND INSTALL GRILLE IN SOFFIT.
3. CENTER OUTSIDE AIR LOUVER WITH MECHANICAL ROOM DOOR.
4. INSTALL DRYER BOOSTER FAN IN LAUNDRY DRYER DUCT.
5. ENABLE CIRCULATING FAN WITH OCCUPANCY SENSOR.
6. INSTALL IN-LINE BOOSTER FAN IN DRYER DUCT.
7. PROVIDE A DEDICATED WALL SWITCH TO START RADIANT HEATER.

GENERAL NOTES

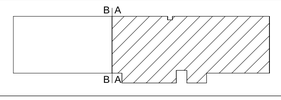
1. SEE FAN COIL SCHEDULE FOR CASSETTE AND WALL MOUNTED FAN COIL DISCHARGE AIR FLOWS.
2. CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS SHALL BE RATED TO DETECT OVER THE ENTIRE FLOOR AREA OF THE SPACE THEY SERVE. MOUNT AT MANUFACTURER RECOMMENDED HEIGHT(S) AFF.



1 M4-10 PUBLIC WORKS AREA A DUCTWORK

3/16" = 1'-0"

TRUE NORTH PROJECT NORTH



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SCALE: 3/16"=1'-0"

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PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

PUBLIC WORKS AREA A HVAC NEW WORK

SHEET NUMBER:

M4-10

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:33:08 AM

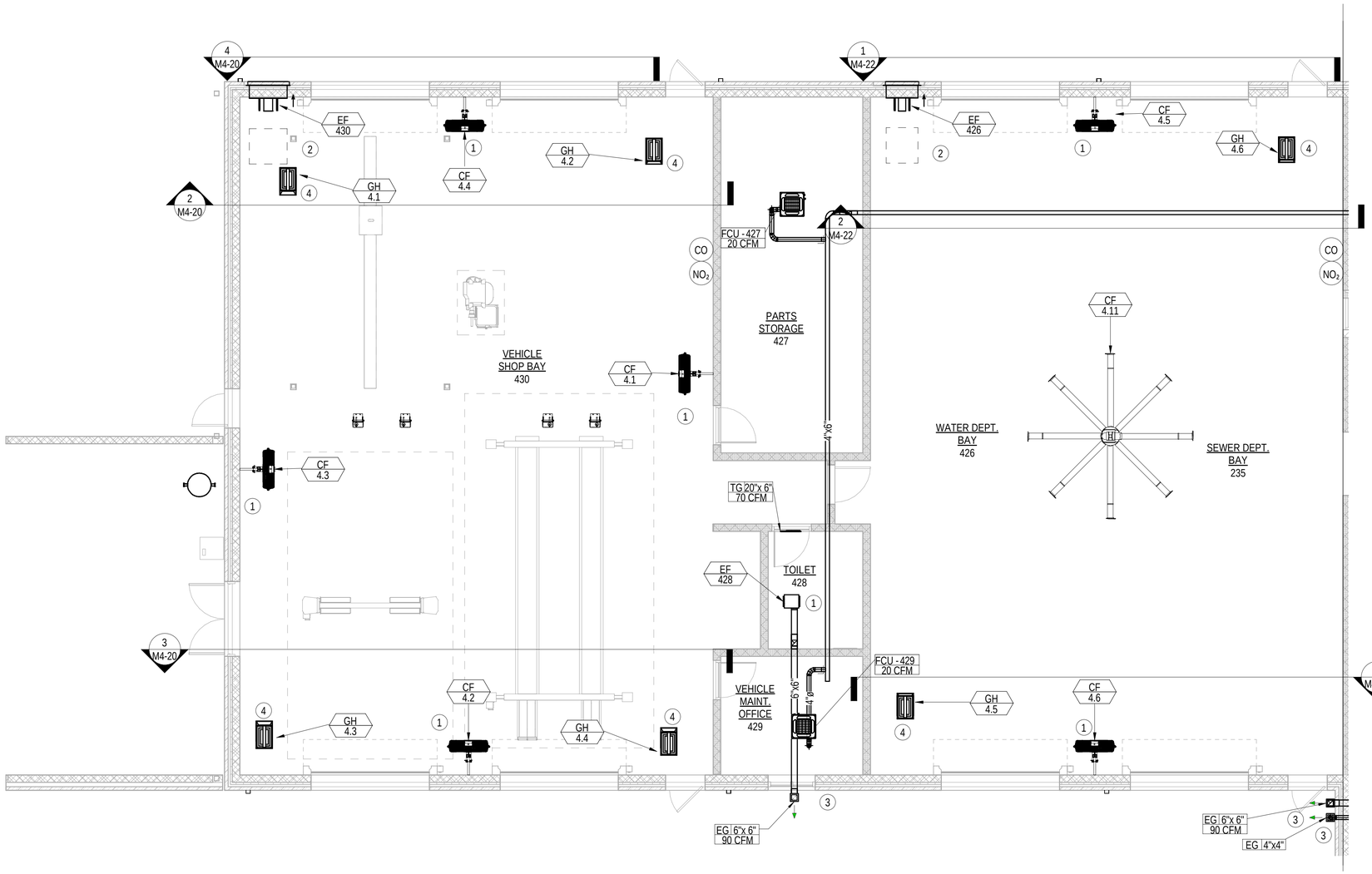
ISSUED FOR BIDS-AUGUST 2024

NOTES

1. ENABLE CIRCULATOR FAN WITH SIGNAL FROM ROOM OCCUPANCY SENSOR.
2. ENABLE EXHAUST FAN IN ACCORDANCE WITH CONTROLS DRAWINGS.
3. ROUTE DUCT ABOVE EXTERIOR WALL AND INSTALL GRILLE IN SOFFIT.
4. PROVIDE A DEDICATED WALL SWITCH TO START RADIANT HEATER.

GENERAL NOTES

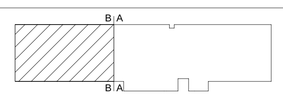
1. SEE FAN COIL SCHEDULE FOR CASSETTE AND WALL MOUNTED FAN COIL DISCHARGE AIR FLOWS.
2. CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS SHALL BE RATED TO DETECT OVER THE ENTIRE FLOOR AREA OF THE SPACE THEY SERVE. MOUNT AT MANUFACTURER RECOMMENDED HEIGHT(S) AFF.



1 M4-11 PUBLIC WORKS AREA B DUCTWORK

3/16" = 1'-0"

TRUE NORTH PROJECT NORTH



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SCALE: 3/16"=1'-0"

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PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

PUBLIC WORKS AREA B HVAC NEW WORK

SHEET NUMBER:

M4-11

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:33:12 AM

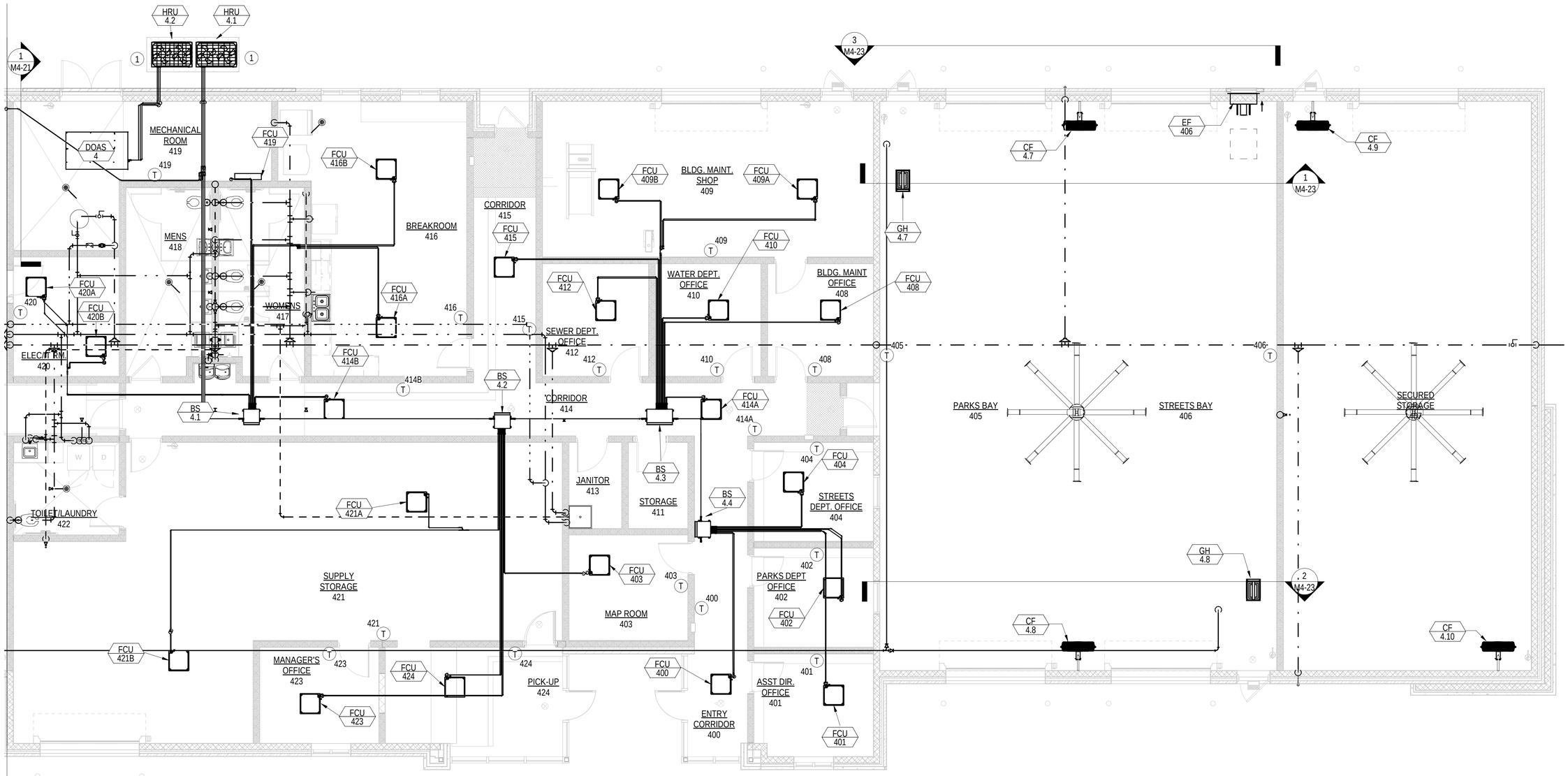
ISSUED FOR BIDS-AUGUST 2024

NOTES

1. MAINTAIN MANUFACTURER'S CLEARANCE REQUIREMENTS.

GENERAL NOTES

1. PLACE THERMOSTATS IN AREA AWAY FROM HEAT PRODUCING EQUIPMENT.
2. LOCATE THERMOSTATS 4'6" ABOVE FINISHED FLOOR.
3. THERMOSTATS IN CLOSE PROXIMITY TO A SWINGING DOOR SHALL BE INSTALLED ON THE SIDE OPPOSITE THE DOOR HINGES.
4. FINAL PIPE CONFIGURATION WILL VARY WITH EQUIPMENT MANUFACTURER. SEE MANUFACTURER INSTALLATION MANUAL FOR PIPE SIZES AND ACCESSORIES.
5. SUBMIT SHOP DRAWINGS FROM THE MANUFACTURER'S EQUIPMENT REPRESENTATIVE SHOWING FINAL LAYOUT AND ALL ACCESSORIES, PIPE SIZES, AND SYSTEM CONTROLS.



1 M4-12 — PUBLIC WORKS AREA A REFRIGERANT PIPING

3/16" = 1'-0"

TRUE NORTH | PROJECT NORTH

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SCALE: 3/16"=1'-0"

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SHEET TITLE:

PUBLIC WORKS AREA A REFRIGERANT PIPING

SHEET NUMBER:

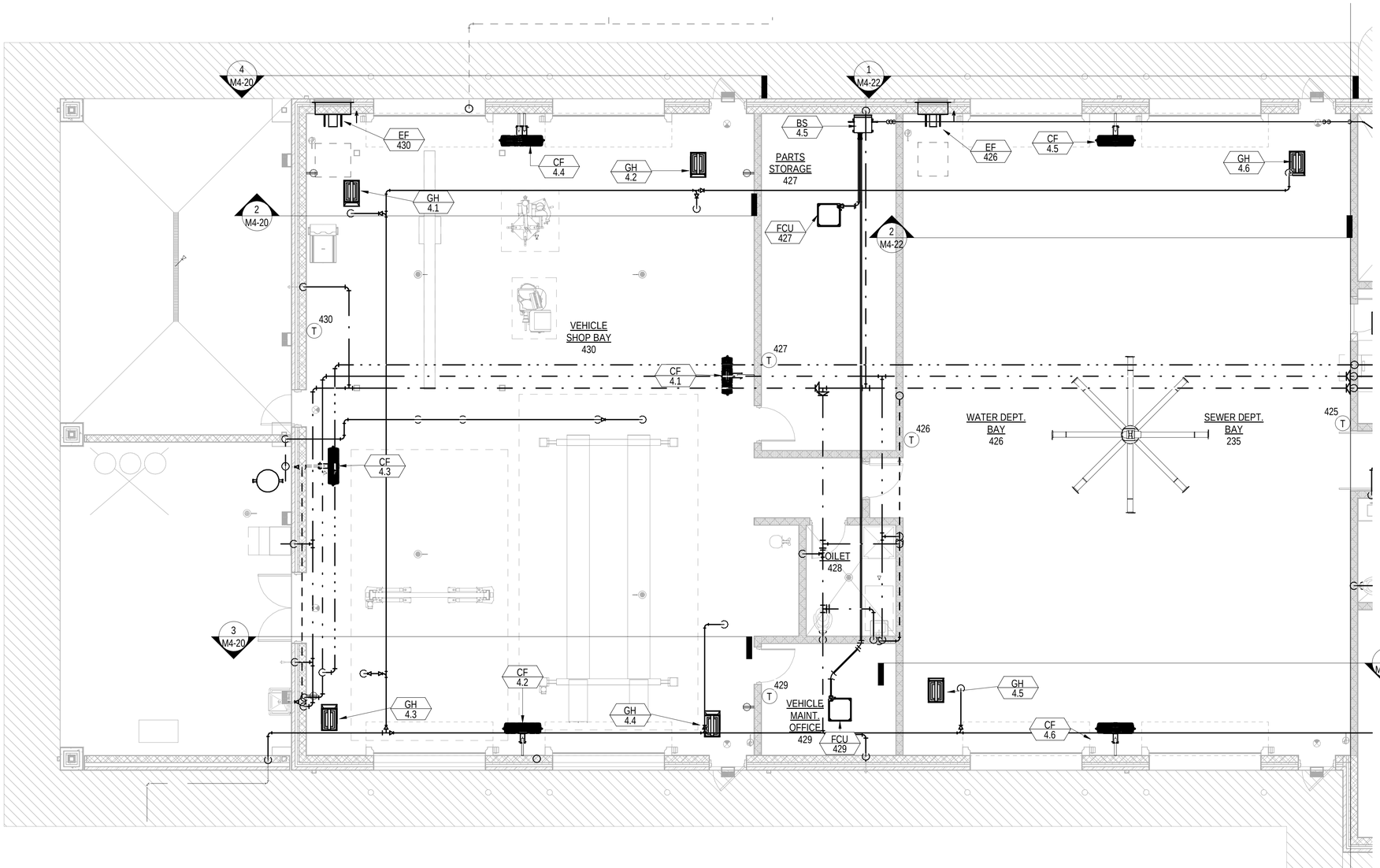
M4-12

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:33:17 AM

ISSUED FOR BIDS-AUGUST 2024

GENERAL NOTES

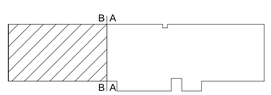
1. PLACE THERMOSTATS IN AREA AWAY FROM HEAT PRODUCING EQUIPMENT.
2. LOCATE THERMOSTATS 4'6" ABOVE FINISHED FLOOR.
3. THERMOSTATS IN CLOSE PROXIMITY TO A SWINGING DOOR SHALL BE INSTALLED ON THE SIDE OPPOSITE THE DOOR HINGES.
4. FINAL PIPE CONFIGURATION WILL VARY WITH EQUIPMENT MANUFACTURER. SEE MANUFACTURER INSTALLATION MANUAL FOR PIPE SIZES AND ACCESSORIES.



1 M4-13 PUBLIC WORKS AREA B REFRIGERANT PIPING

3/16" = 1'-0"

TRUE NORTH PROJECT NORTH



PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
(850) 434-0513
PEI 21173

5' 0' 5' 10'
SCALE: 3/16"=1'-0"

ISSUED FOR BIDS-AUGUST 2024

MOTT MACDONALD FLORIDA LLC
1022 West 23rd Street
Suite 500
Panama City, Florida 32405
Telephone: (850) 763-9393

Architects AA - C000205
Engineers EB - 0000205
Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61C15-23.004, F.A.C. Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

SHEET TITLE:

PUBLIC WORKS AREA B REFRIGERANT PIPING

SHEET NUMBER:

M4-13

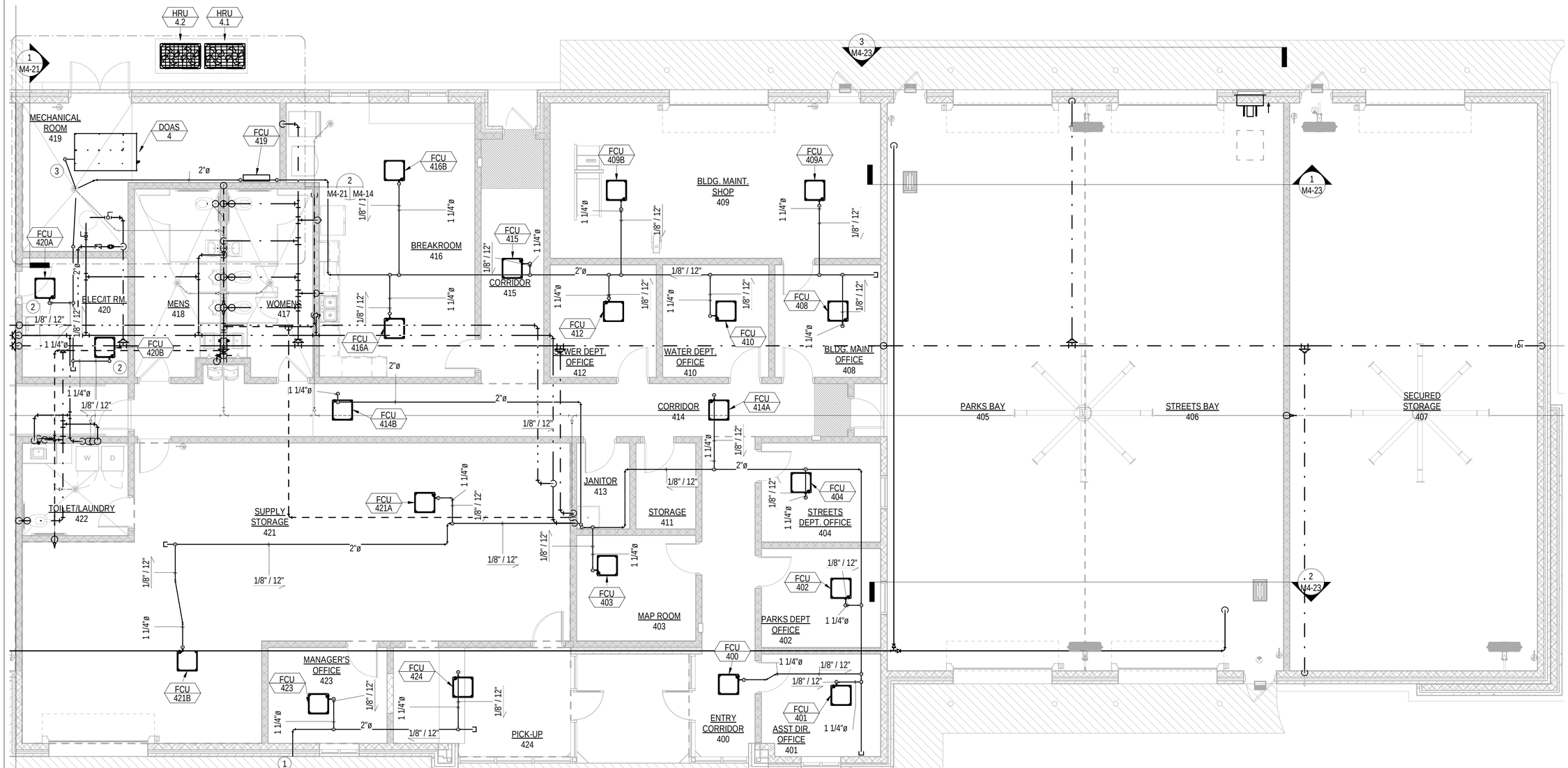
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:33:25 AM

NOTES

1. MAXIMUM VERTICAL DISTANCE FROM THE BOTTOM OF FAN COILS TO THE TOP OF INVERTED TRAP IS 27-1/2".
2. ALL HORIZONTAL RUNS SHALL SLOPE DOWN 1/8" PER 1' TOWARDS DRAIN LOCATIONS.
3. EACH FAN COIL SHALL HAVE AN INVERTED TRAP.
4. EACH CONNECTION OF AN INVERTED TRAP TO A MAIN PIPE SHALL BE ON THE TOP HALF OF THE MAIN PIPE.

NOTES

1. SEAL EXTERIOR WALL PIPE PENETRATION.
2. ROUTE PIPING TO COMPLY WITH NEC 110.26(E)
3. PROVIDE CONDENSATE TRAP AS SPECIFIED BY DOAS MANUFACTURER.



1 M4-14 PUBLIC WORKS AREA A CONDENSATE PIPING

3/16" = 1'-0"

TRUE NORTH | PROJECT NORTH

PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
(850) 434-0513
PEI 21173

5' 0' 5' 10'
SCALE: 3/16"=1'-0"

ISSUED FOR BIDS-AUGUST 2024

MOTT MACDONALD FLORIDA LLC
1022 West 23rd Street
Suite 500
Panama City, Florida 32405
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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: 10-03-2023
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CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

PUBLIC WORKS AREA A CONDENSATE PIPING

SHEET NUMBER:

M4-14

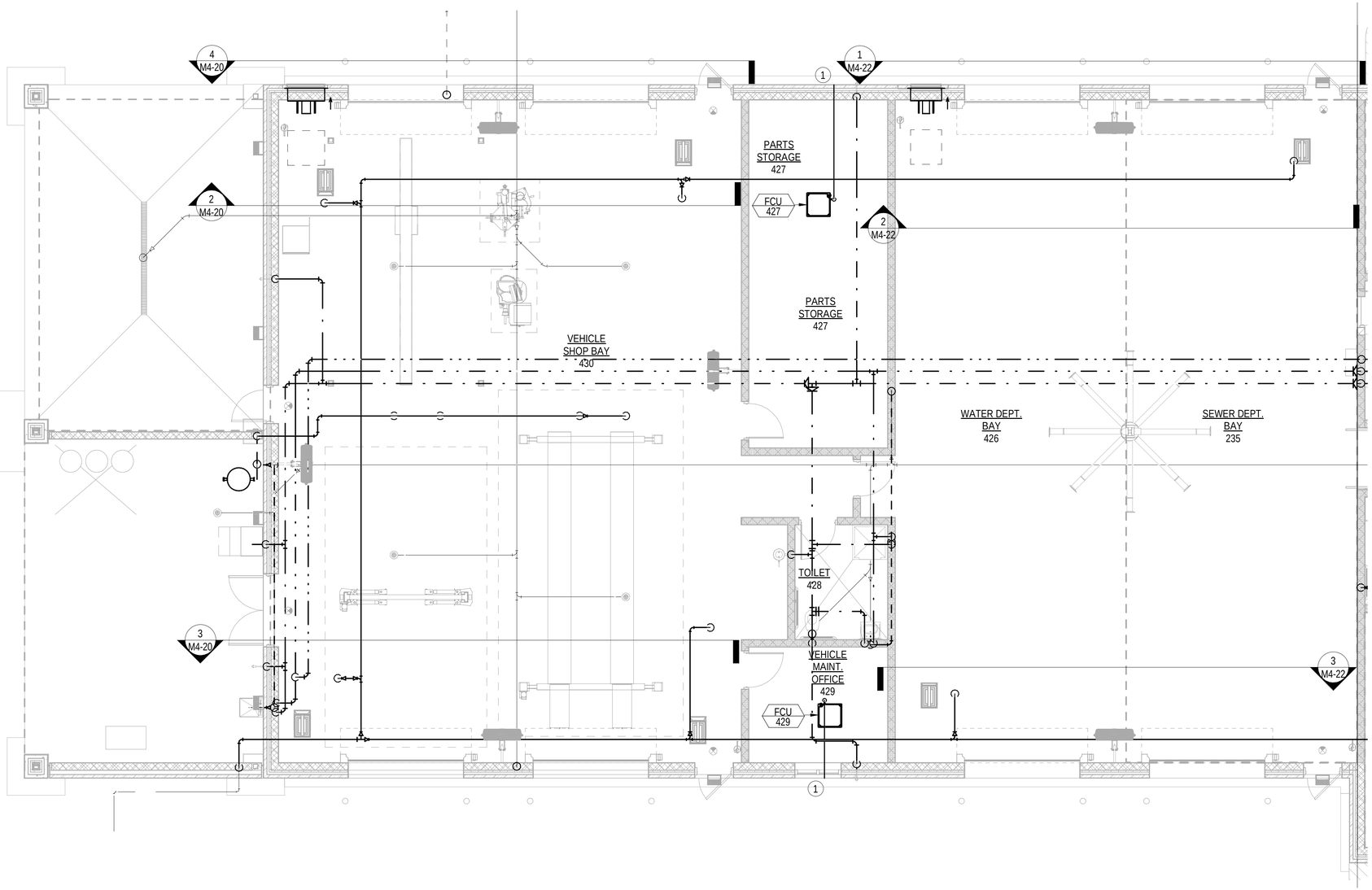
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:33:33 AM

NOTES

1. MAXIMUM VERTICAL DISTANCE FROM THE BOTTOM OF FAN COILS TO THE TOP OF INVERTED TRAP IS 27-1/2".
2. ALL HORIZONTAL RUNS SHALL SLOPE DOWN 1/8" PER 1' TOWARDS DRAIN LOCATIONS.
3. EACH FAN COIL SHALL HAVE AN INVERTED TRAP.

NOTES

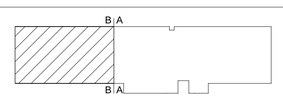
(1) SEAL EXTERIOR WALL PIPE PENETRATION.



TRUE NORTH | PROJECT NORTH

1 M4-15 PUBLIC WORKS AREA B CONDENSATE PIPING

3/16" = 1'-0"



PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
(850) 434-0513
PEI 21173

5' 0' 5' 10'
SCALE: 3/16"=1'-0"

MOTT MACDONALD FLORIDA LLC
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City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

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PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

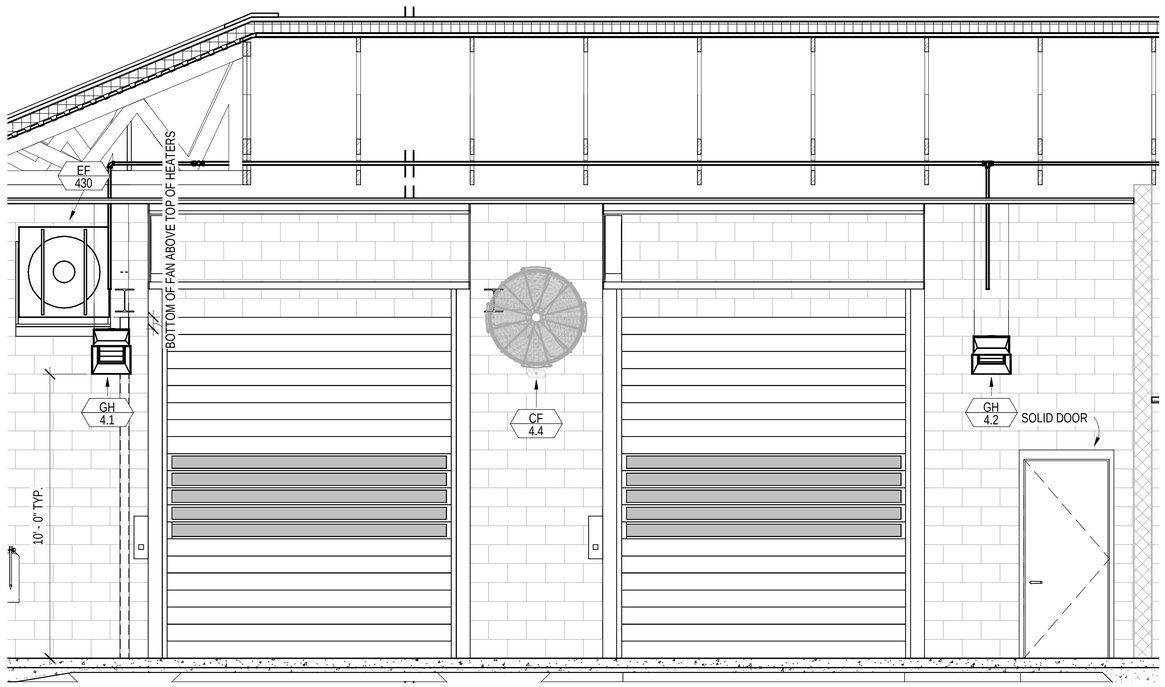
PUBLIC WORKS AREA B CONDENSATE PIPING

SHEET NUMBER:

M4-15

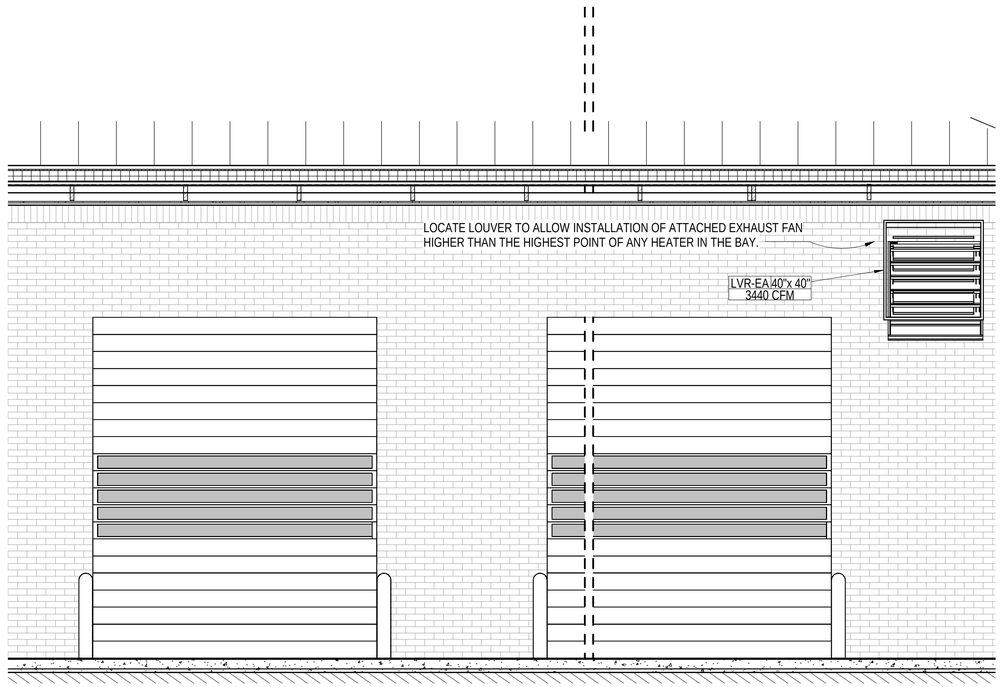
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:33:37 AM

ISSUED FOR BIDS-AUGUST 2024



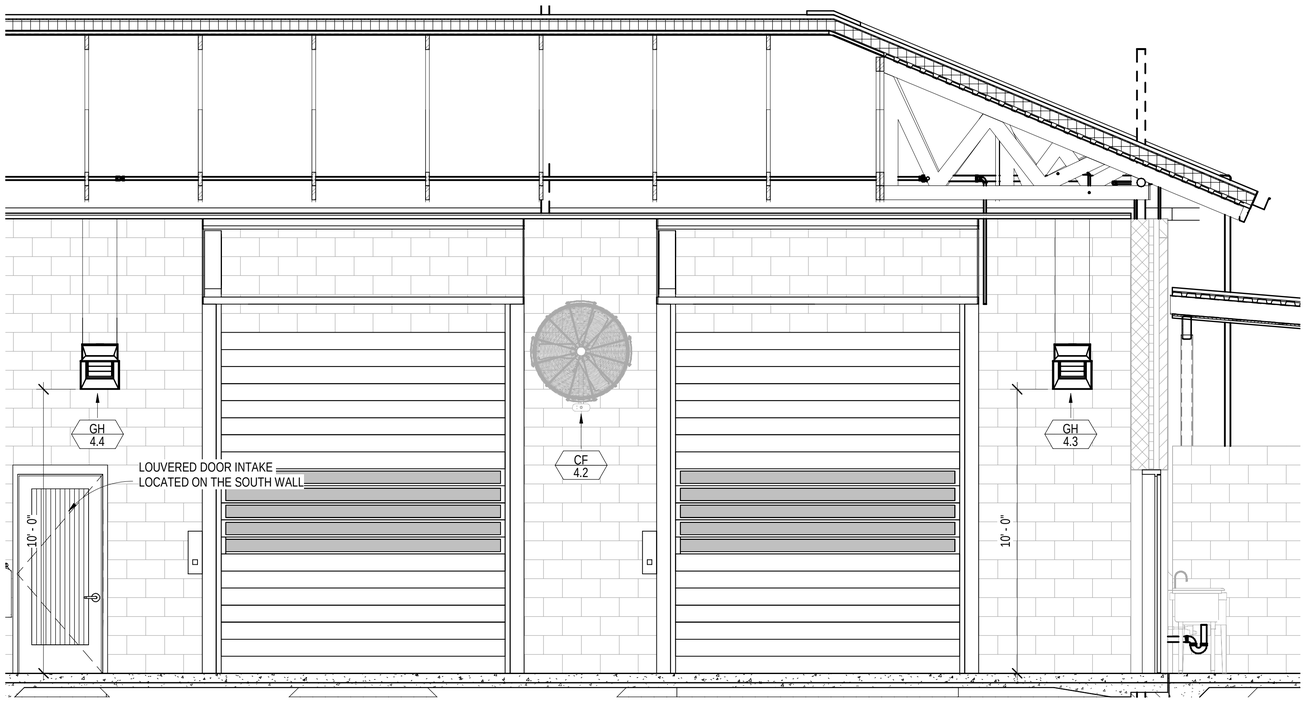
2 M4-20 PUBLIC WORKS MAINTENANCE BAY NORTH INTERIOR WALL

3/8" = 1'-0"



4 M4-20 PUBLIC WORKS MAINTENANCE BAY NORTH SIDE EXTERIOR WALL

3/8" = 1'-0"



3 M4-20 PUBLIC WORKS MAINTENANCE BAY SOUTH SIDE INTERIOR WALL

3/8" = 1'-0"

PETERSON ENGINEERING INC.
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Panama City, Florida 32405
Telephone: (850) 763-9393

Architects AA - C000205
Engineers EB - 0000295
Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: G. PETERSON
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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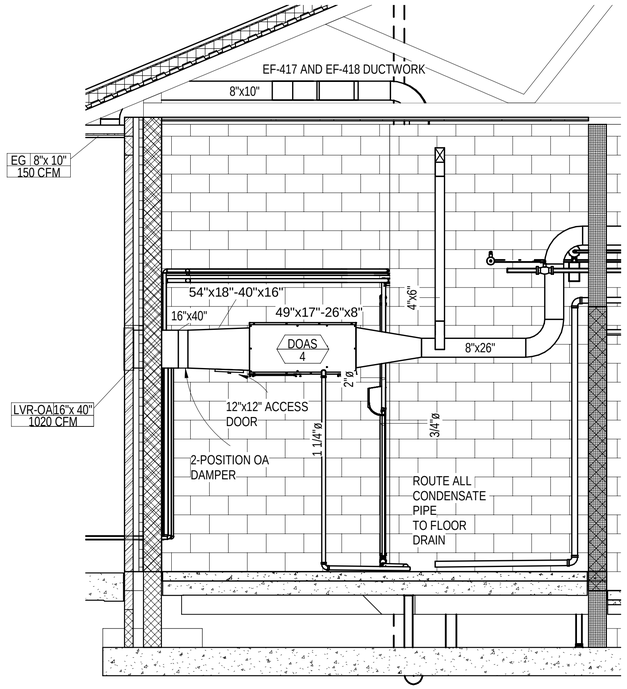
SHEET TITLE:

PUBLIC WORKS MAINTENANCE BAY WALL ELEVATIONS

SHEET NUMBER:

M4-20

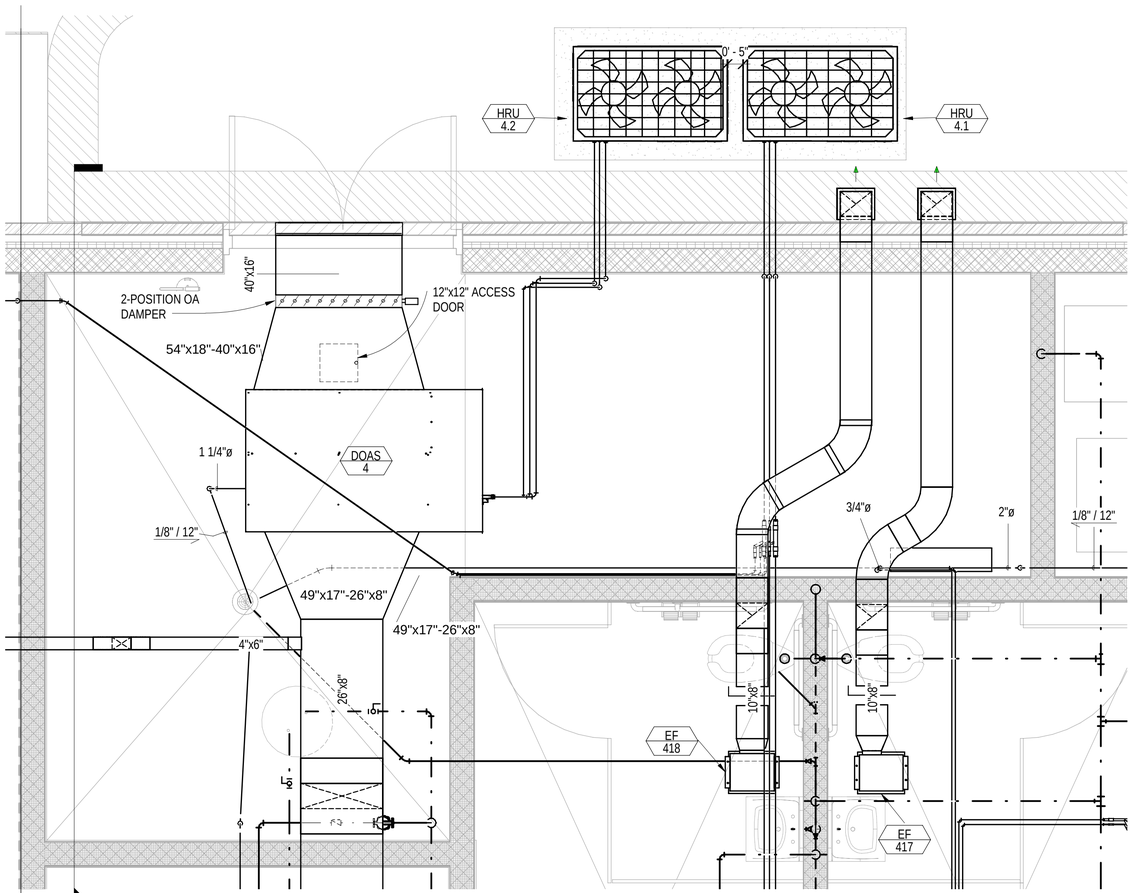


1 M4-21 PUBLIC WORKS MECHANICAL ROOM

3/8" = 1'-0"

3' 0' 3' 6'

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



1 M4-21

2 M4-21 PUBLIC WORKS MECHANICAL ROOM ENLARGED VIEW

1/2" = 1'-0"

2' 0' 2' 4'

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

TRUE NORTH

PROJECT NORTH

PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
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City of Springfield
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SPRINGFIELD, FLORIDA 32401

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PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

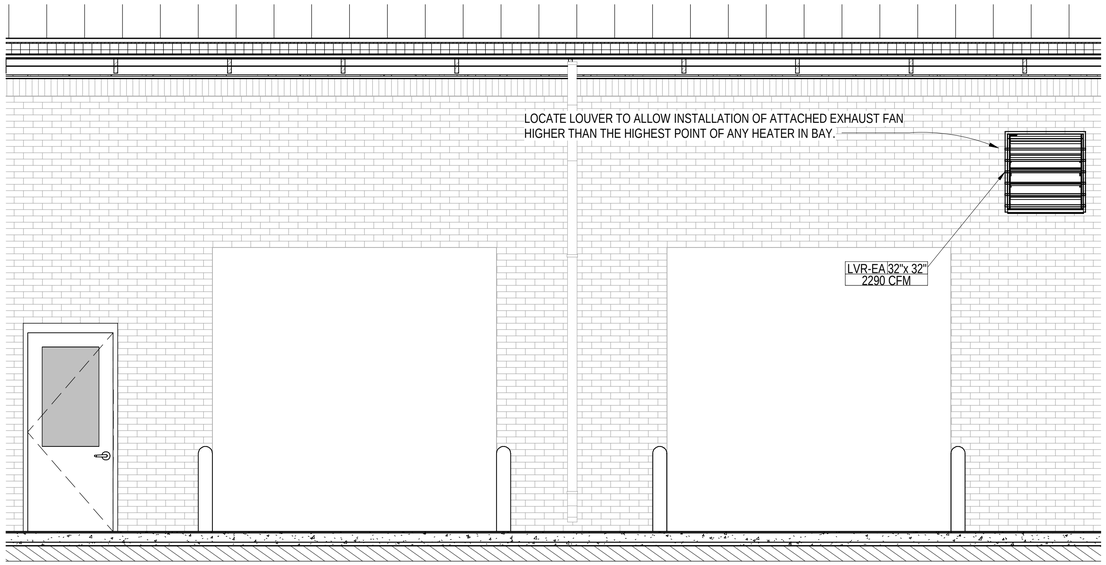
PUBLIC WORKS MECHANICAL ROOM ELEVATION AND ENLARGED VIEW

SHEET NUMBER:

M4-21

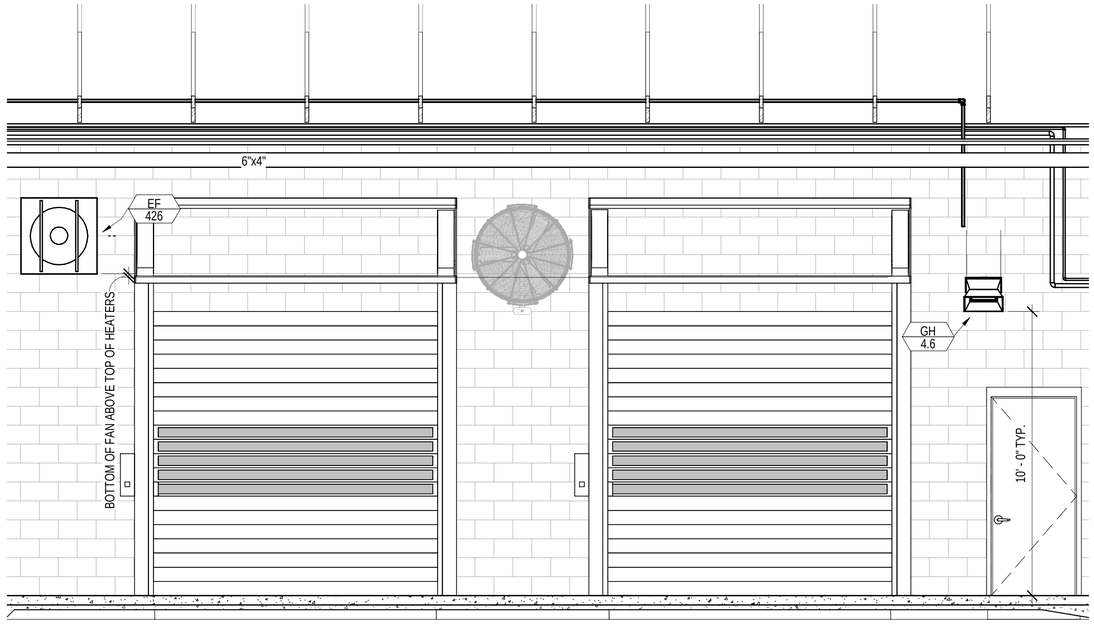
SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:33:47 AM

ISSUED FOR BIDS-AUGUST 2024



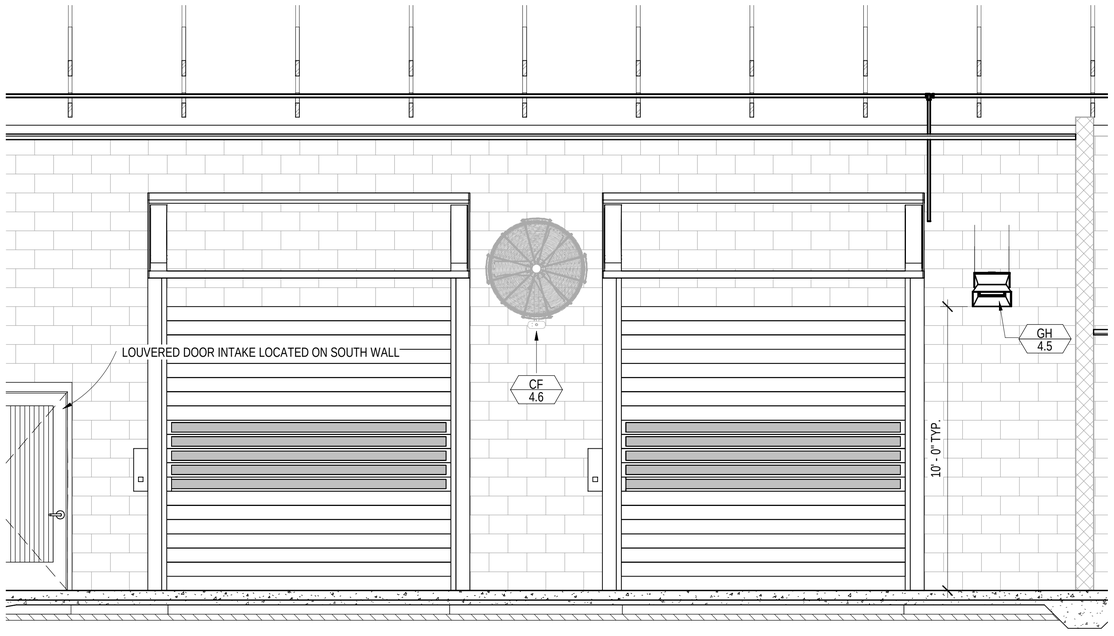
1 M4-22 PUBLIC WORKS WATER AND SEWER BAYS NORTH EXTERIOR WALL

3/8" = 1'-0"



2 M4-22 PUBLIC WORKS WATER AND SEWER BAYS NORTH INTERIOR WALL

3/8" = 1'-0"



3 M4-22 PUBLIC WORKS WATER AND SEWER BAYS SOUTH INTERIOR WALL

3/8" = 1'-0"

PETERSON ENGINEERING INC.
(PROF. ENG # 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32501
(850) 434-0513
PEI 21173

MOTT MACDONALD FLORIDA LLC
1022 West 23rd Street
Suite 500
Panama City, Florida 32405
Telephone: (850) 763-9393
Architects AA - C000205
Engineers EB - 0000295
Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 5021000062-005

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SHEET TITLE:

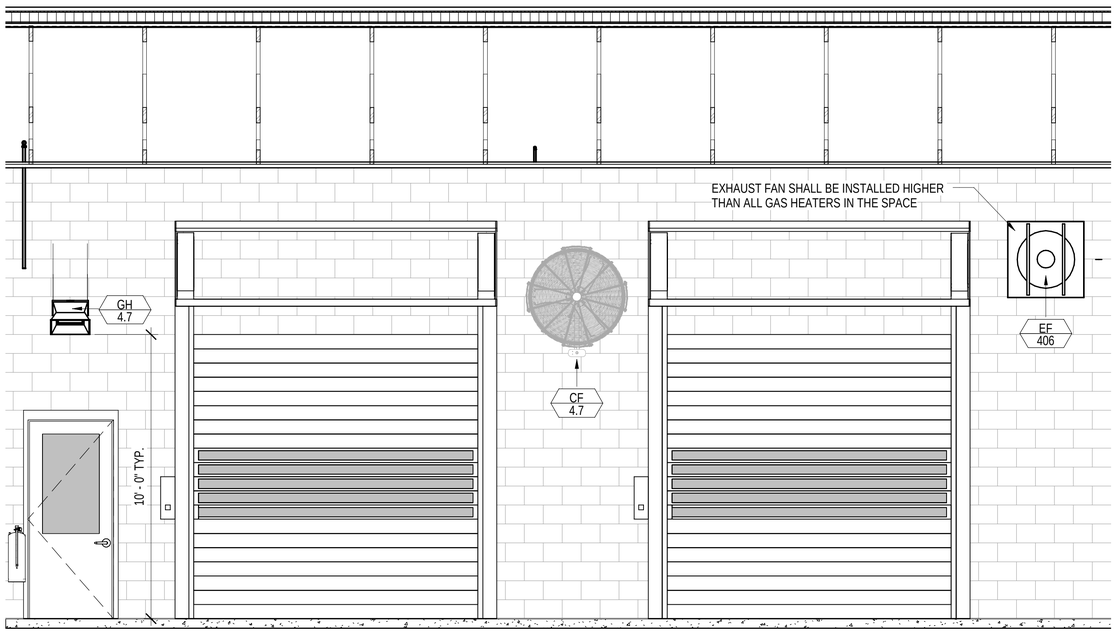
PUBLIC WORKS WATER AND SEWER BAYS WALL ELEVATIONS

SHEET NUMBER:

M4-22

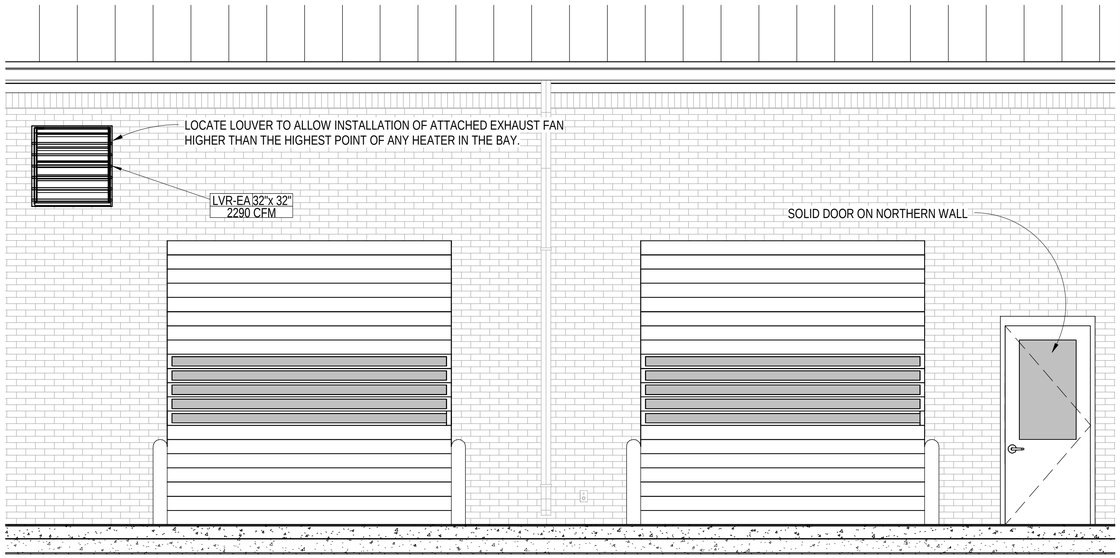
ISSUED FOR BIDS-AUGUST 2024

SPRINGFIELD CITY COMPLEX
5021000062-005
8/6/2024 8:33:58 AM



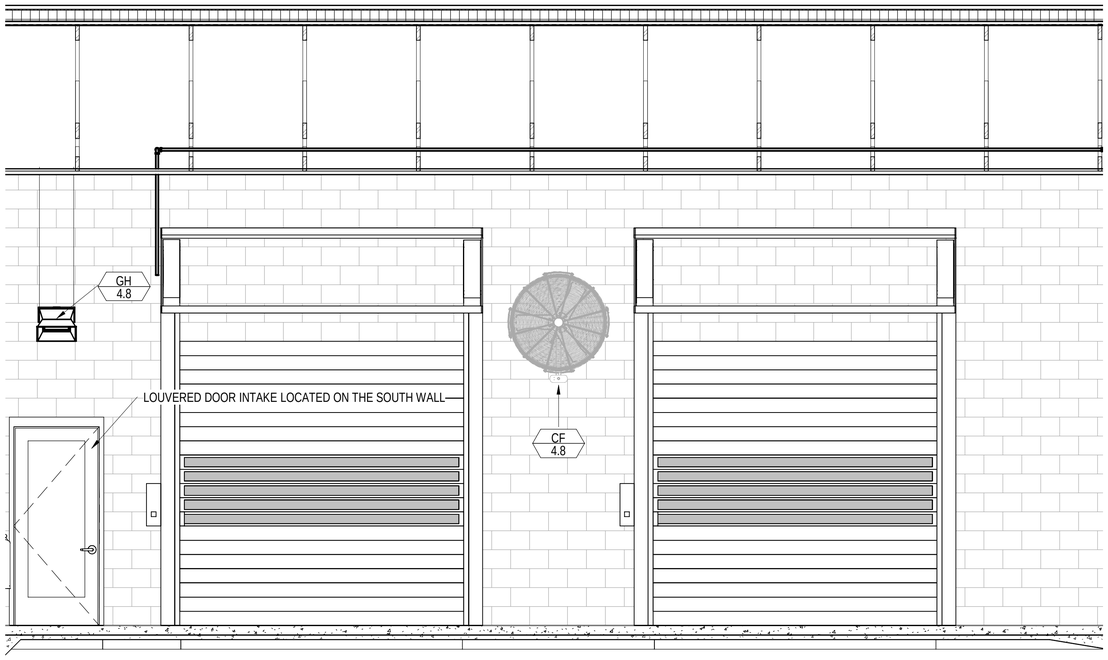
1 M4-23 PUBLIC WORKS PARKS AND STREETS BAYS NORTH INTERIOR WALL

3/8" = 1'-0"



3 M4-23 PUBLIC WORKS PARKS AND STREETS NORTH EXTERIOR WALL

3/8" = 1'-0"



2 M4-23 PUBLIC WORKS PARKS AND STREETS BAYS SOUTH INTERIOR WALL

3/8" = 1'-0"

PETERSON ENGINEERING INC.
(PROF. ENG #: 3600)
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1022 West 23rd Street
Suite 500
Panama City, Florida 32405
Telephone: (850) 763-9393
Architects AA - C000205
Engineers EB - 000055
Surveyors LB - 0000783

M MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION

DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 5021000962-005

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SHEET TITLE:

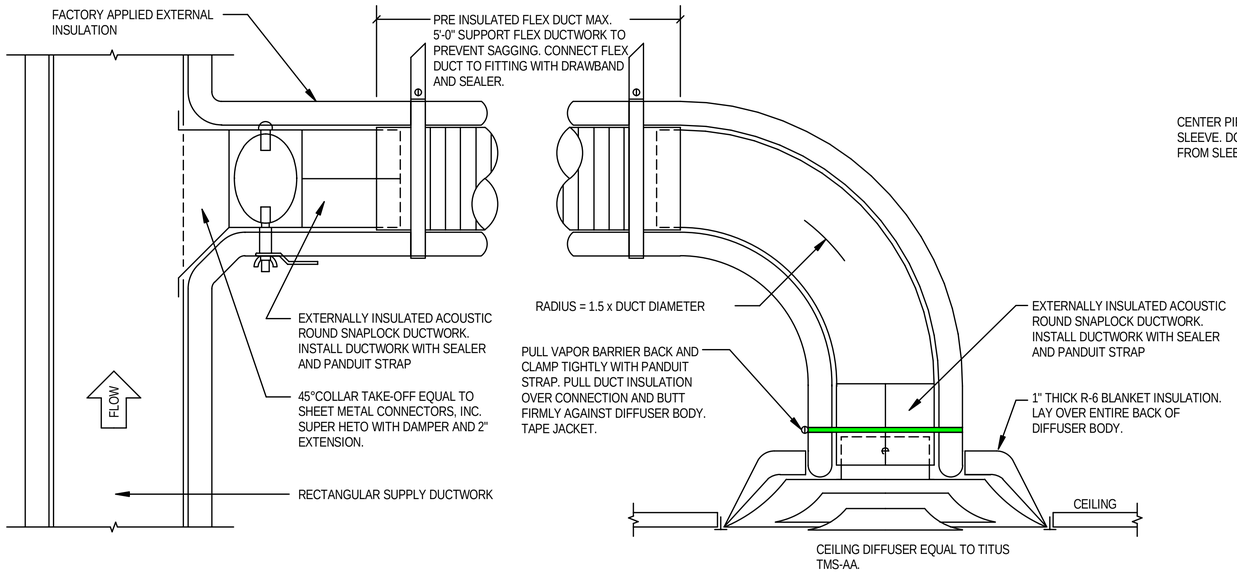
PUBLIC WORKS PARKS AND STREETS BAYS WALL ELEVATIONS

SHEET NUMBER:

M4-23

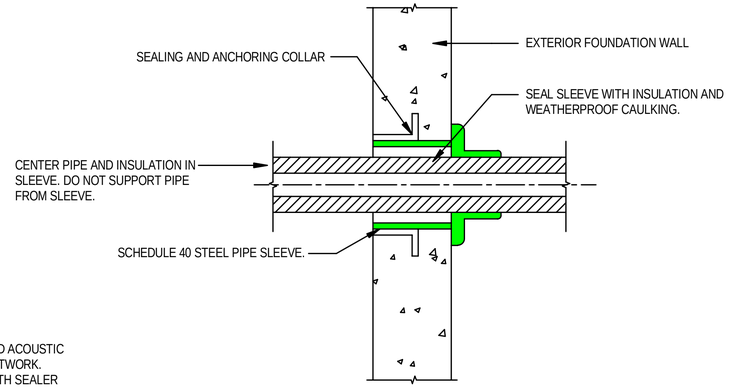
ISSUED FOR BIDS-AUGUST 2024

SPRINGFIELD CITY COMPLEX
5021000962-005
8/6/2024 8:34:09 AM



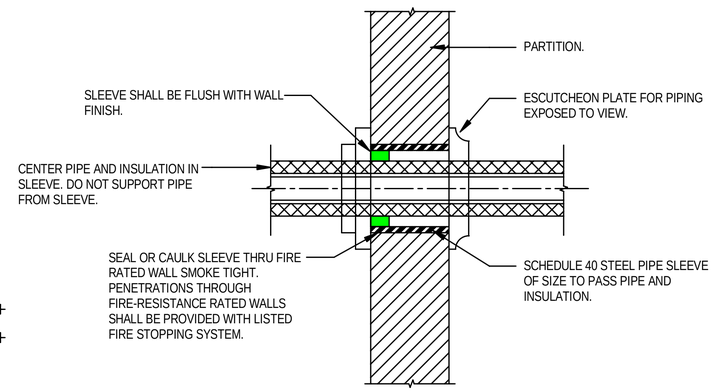
1 DUCT ROUND TAKEOFF TO DIFFUSER DETAIL

NOT TO SCALE



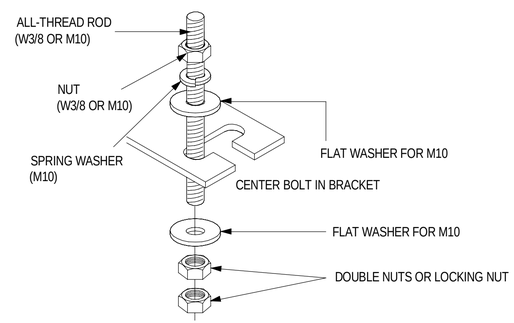
2 PIPE EXTERIOR PENETRATION DETAIL

NOT TO SCALE



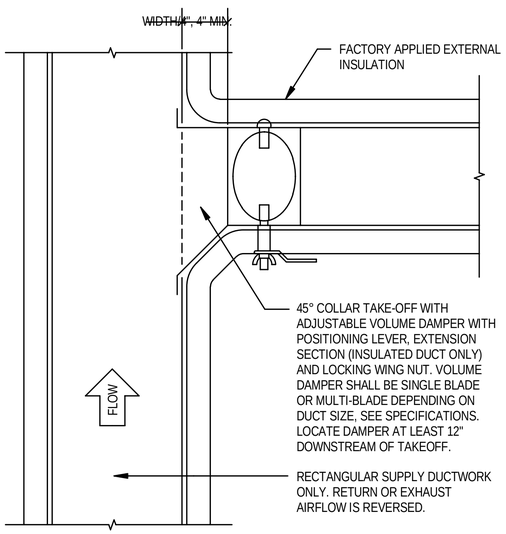
3 PIPE INTERIOR PENETRATION DETAIL

NOT TO SCALE



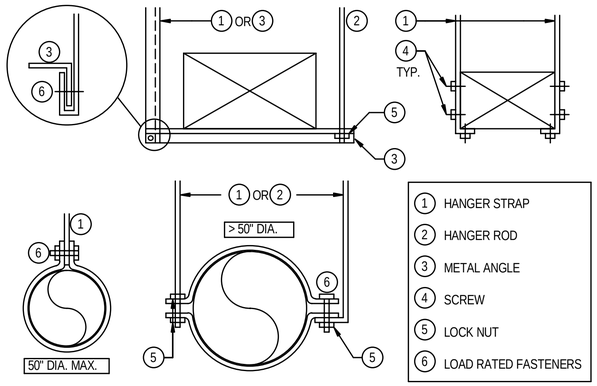
6 TYPICAL EQUIPMENT HANGING DETAIL

NOT TO SCALE



4 DUCT RECTANGULAR BRANCH TAKEOFF DETAIL

NOT TO SCALE



DUCTWORK SUPPORT	
DUCTWORK TYPE	MAX. HANGER SPACING
HORIZONTAL DUCTS LESS THAN 4 SQ FT	8 FT
HORIZONTAL DUCTS 4 TO 10 SQ FT	6 FT
HORIZONTAL DUCTS GREATER THAN 10 SQ FT	4 FT
VERTICAL ROUND DUCTS	12 FT
VERTICAL RECTANGULAR DUCTS	10 FT

5 DUCT HANGER DETAIL

NOT TO SCALE

PETERSON ENGINEERING INC.
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Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

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SHEET TITLE:

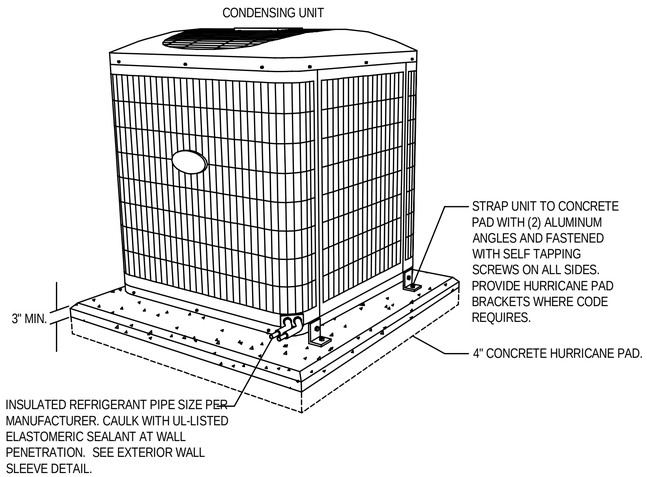
PUBLIC WORKS DETAILS

SHEET NUMBER:

M4-50

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:34:09 AM

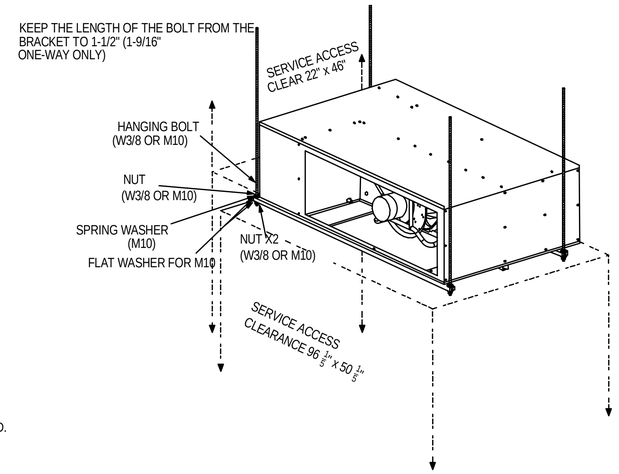
ISSUED FOR BIDS-AUGUST 2024



NOTE: SIZE CONCRETE PAD 6" LARGER THAN UNIT ON ALL SIDES.

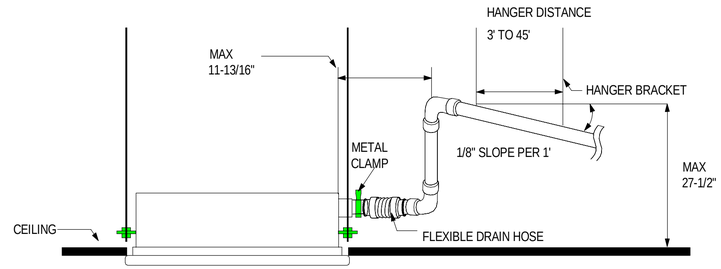
1 TYPICAL HEAT PUMP MOUNTING DETAIL

NOT TO SCALE



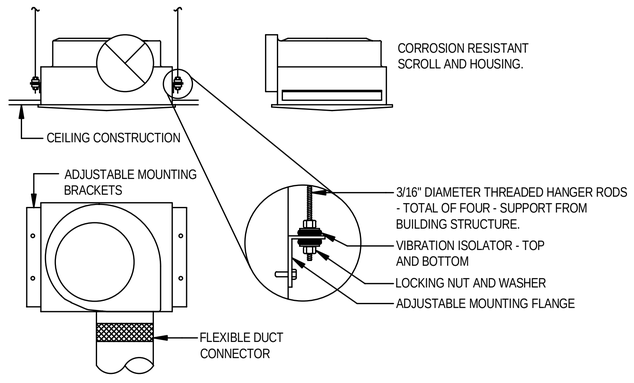
2 TYPICAL DOAS MOUNTING DETAIL

NOT TO SCALE



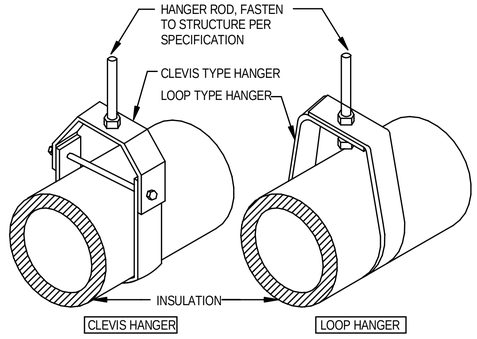
3 TYPICAL CASSETTE CONDENSATE PIPING DETAIL

NOT TO SCALE



4 CEILING EXHAUST FAN DETAIL

NOT TO SCALE



NOTE:
PIPE HANGARS SHALL BE LOCATED IAW MSS SP-69, TABLE 3 AND AT ALL CHANGES IN DIRECTION. HANGERS SHALL BE PAINTED. PIPE COVERING PROTECTION SADDLE.

5 PIPE HANGER DETAIL

NOT TO SCALE

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Engineers EB - 0000595
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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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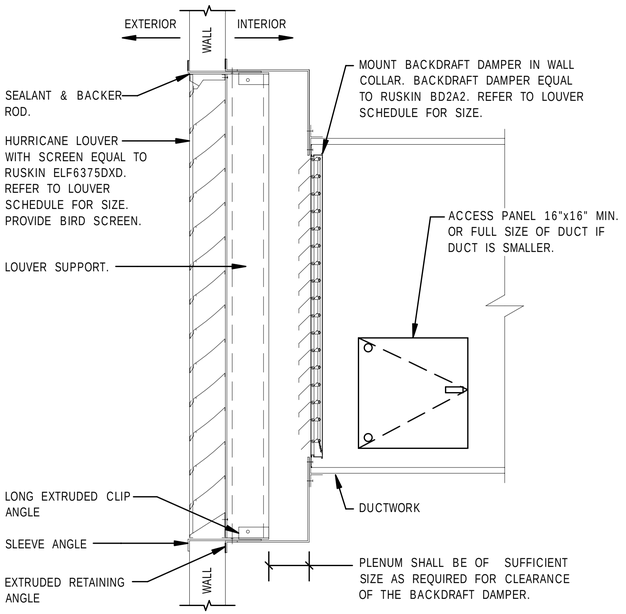
SHEET TITLE:
PUBLIC WORKS DETAILS CONT.

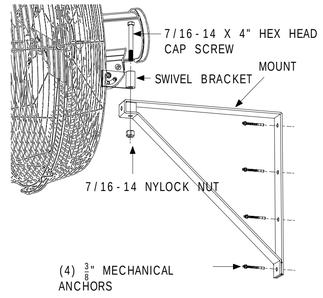
SHEET NUMBER:
M4-51

ISSUED FOR BIDS-AUGUST 2024



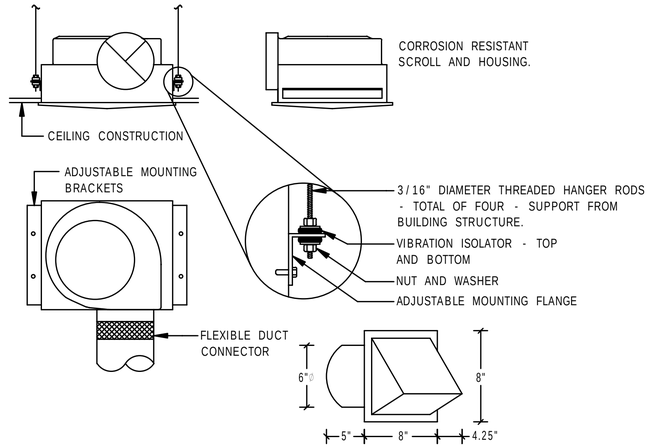
1 WALL MOUNTED EXHAUST FAN DETAIL

NOT TO SCALE



2 WALL MOUNTED CIRCULATION FAN DETAIL

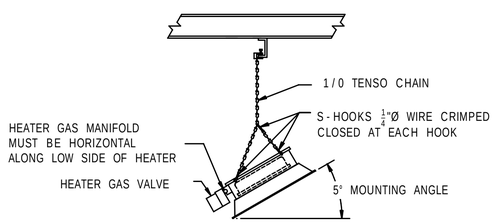
NOT TO SCALE



WALL CAP WITH BUILT-IN BIRDSCREEN AND BACK DRAFT DAMPER.

3 CEILING EXHAUST FAN DETAIL

NOT TO SCALE



4 TYPICAL RADIANT HEATER MOUNTING DETAIL

NOT TO SCALE

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M MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD.
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: 10-03-2023
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DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

PUBLIC WORKS DETAILS CONT.

SHEET NUMBER:

M4-52

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:34:09 AM

ISSUED FOR BIDS-AUGUST 2024

PUBLIC WORKS DOAS SCHEDULE

MARK	#	TYPE	AIR FLOW CFM	COOLING CAPACITY (MBH)	COOLING ENTERING AIR DB °F / WB °F	COOLING LEAVING AIR DB °F	HEATING CAPACITY (MBH)	HEATING ENTERING AIR DB °F	HEATING LEAVING AIR DB °F	REFRIGERANT TYPE	CONTROLS	FAN QTY	FAN DRIVE	FAN ESP	SOUND POWER DB(A)	RLA	MCA	MOP	ELEC V/ϕ/hz	BASIS OF DESIGN		NOTES
																				MAKE	MODEL	
DOAS	4	HORIZ. DEDICATED OUTSIDE AIR	1020	92.4	93.0 / 78.0	51.0	49.5	25.0	75.0	R410A	EEV	1	DIRECT	1.5"	75	6.0	7.5	15	208-230/1/60	LG	ARND153DCR4	1

1. PROVIDE HOT GAS REHEAT.

PUBLIC WORKS FCU SCHEDULE

	#	TYPE	AIR FLOW	OUTSIDE AIR FLOW	COOLING	HEATING	REFRIGERANT		FAN QTY	FAN DRIVE	FAN ESP	ELECTRICAL				BASIS OF DESIGN		NOTES
					COOLING CAPACITY MBH	HEATING CAPACITY MBH	TYPE	EXPANSION DEVICE				RLA	MCA	MOP	V/ϕ/HZ	MAKE	MODEL	
FCU	400	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	20 CFM	6.9	5.3	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES
FCU	401	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.6	1.6	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	402	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.3	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	403	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.2	0.5	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	404	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.3	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	408	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.4	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	409A	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	0 CFM	5.9	2.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	1,2,3,4,6,7,8,9,10
FCU	409B	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	0 CFM	5.9	2.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	1,2,3,4,6,7,8,9,10
FCU	410	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.3	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	412	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.6	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	414A	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.9	0.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	414B	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.9	0.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	415	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	2.1	0.9	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	416A	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	20 CFM	8.9	1.3	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES
FCU	416B	2'x2' FOUR-WAY CEILING CASSETTE	285 CFM	20 CFM	8.9	1.3	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU093TRD4	REFER TO ALL NOTES
FCU	419	WALL MOUNTED	250 CFM	0 CFM	4.5	2.9	R410A	EEV	1	DIRECT	-	.25	0.32	15	208-230/1/60	LG	ARNU053SJA4	1,2,3,4,6,7,8,9,10
FCU	420A	2'x2' FOUR-WAY CEILING CASSETTE	385 CFM	0 CFM	11.1	0.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU153TRD4	1,2,3,4,6,7,8,9,10
FCU	420B	2'x2' FOUR-WAY CEILING CASSETTE	385 CFM	0 CFM	11.1	.1	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU153TRD4	1,2,3,4,6,7,8,9,10
FCU	421A	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	0 CFM	4.8	3.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	1,2,3,4,6,7,8,9,10
FCU	421B	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	0 CFM	4.8	3.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	1,2,3,4,6,7,8,9,10
FCU	423	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.3	1.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	424	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	7.6	5.7	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU073TRD4	REFER TO ALL NOTES
FCU	427	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	1.6	1.0	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES
FCU	429	2'x2' FOUR-WAY CEILING CASSETTE	265 CFM	20 CFM	3.3	1.2	R410A	EEV	1	DIRECT	-	0.2	0.25	15	208-230/1/60	LG	ARNU053TRD4	REFER TO ALL NOTES

1. PROVIDE WALL MOUNTED HARD WIRED TEMPERATURE SENSOR.
2. PROVIDE UNIT WITH DRAIN PAN AND CONDENSATE LIFT PUMP AND SAFETY SWITCH.
3. PROVIDE UNIT WITH STANDARD FILTER.
4. PIPE ALL CONDENSATE FROM UNITS TO APPROPRIATE DRAIN LOCATION.
5. PROVIDE PTVK430 VENTILATION FLANGE.
6. ADJUST LOCATION OF UNITS AS REQUIRED FOR SERVICE AS RECOMMENDED BY MANUFACTURER.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT IN THE POWER WIRING SYSTEM THROUGH A CIRCUIT BREAKER. POWER WIRING IS FIELD SUPPLIED. WIRE SIZE IS SELECTED BASED ON THE LARGER MCA VALUE, AND MUST COMPLY WITH APPLICABLE LOCAL AND NATIONAL CODES.
8. CONTROLS CONTRACTOR SHALL PROVIDE COMMUNICATION CABLE FROM THE OUTDOOR UNIT USING THE DESIGNATED PATH IN THE VRF FAN COIL UNIT.
9. ALL FAN COILS, BRANCH SELECTOR BOXES, OUTDOOR UNITS, AND DEDICATED OUTSIDE AIR SYSTEMS SHALL COMMUNICATE WITH ONE CENTRAL CONTROLLER, WHICH SHALL COMMUNICATE WITH A CENTRAL STATION WHOSE LOCATION SHALL BE CHOSEN BY THE OWNER. THE CENTRAL STATION SHALL BE CAPABLE OF MONITORING AND SETPOINT CONTROL FOR ALL FOUR BUILDINGS' VRF SYSTEMS.
10. PROVIDE UNIT CAPABLE OF HEAT RECOVERY.

PUBLIC WORKS OUTDOOR UNIT SCHEDULE

MARK	#	COOLING MODE CAPACITY MBH	EER	IEER	COP AT 17°F AMBIENT	REFRIGERANT DATA			ELECTRICAL DATA				FAN QTY.	BASIS OF DESIGN		NOTES
						COMPRESSOR QTY	TYPE	EXPANSION DEVICE	RLA	MCA	MOCP	V/ϕ/HZ		MAKE	MODEL	
HRU	4.1	144	12.5	28.6	2.67	2	R410A	EEV	46.1	51.1	70	208-230/3/60	2	LG	ARUM144BTE5	REFER TO ALL NOTES
HRU	4.2	119.7	13.1	29.6	2.74	1	R410A	EEV	26.3	30.9	40	208-230/3/60	2	LG	ARUM121BTE5	REFER TO ALL NOTES

1. PROVIDE FRONT AND REAR WIND BAFFLES
2. PROVIDE AND SECURE TO 4" THICK CONCRETE HURRICANE PAD. PAD SHALL EXTEND 6" BEYOND HRU.
3. PROVIDE WITH INTEGRATED 120 VOLT RECEPTICLE.
4. PROVIDE WITH CORROSION RESISTANT COIL COATING.
5. PROVIDE WITH LOW AMBIENT KIT AND CRANKCASE HEATER.
6. PROVIDE UNIT CAPABLE OF HEAT RECOVERY.

PUBLIC WORKS BRANCH SELECTOR SCHEDULE

MARK	#	REFRIGERANT DATA			ELECTRICAL				BASIS OF DESIGN	
		REFRIGERANT CIRCUITS	TYPE	CONTROL	FLA	MCA	MOCP	V/ϕ/HZ	MAKE	MODEL
BS	4.1	4	R410A	EEV	0.06	0.25	15	208-230/3/60	LG	PRHR043A
BS	4.2	4	R410A	EEV	0.06	0.25	15	208-230/3/60	LG	PRHR063A
BS	4.3	6	R410A	EEV	0.09	0.25	15	208-230/1/60	LG	PRHR063A
BS	4.4	4	R410A	EEV	0.06	0.25	15	208-230/1/60	LG	PRHR043A
BS	4.5	2	R410A	EEV	0.06	0.25	15	208-230/1/60	LG	PRHR023A

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SHEET TITLE:

PUBLIC WORKS VRF SYSTEM SCHEDULES

SHEET NUMBER:

M4-60

PUBLIC WORKS CEILING EXHAUST FAN SCHEDULE

MARK	#	TYPE	MAX AIR FLOW	ESP	MOTOR					SOUND LEVEL SONNES	BASIS OF DESIGN		NOTES
					DRIVE	ELECTRICAL							
						RLA	MCA	MOCP	V/ф/HZ		MAKE	MODEL	
EF	409	CEILING	265	0.25	DIRECT	0.56	0.7	15	115/1/60	3.5	GREENHECK	SP-A250	REFER TO ALL NOTES
EF	413	CEILING	50	0.25	DIRECT	0.13	0.20	15	115/1/60	1.6	GREENHECK	SP-B70	REFER TO ALL NOTES
EF	416	CEILING	50	0.25	DIRECT	0.13	0.2	15	115/1/60	1.6	GREENHECK	SP-B70	REFER TO ALL NOTES
EF	417	CEILING	150	0.25	DIRECT	1.8	2.3	15	230/1/60	3.8	GREENHECK	SP-B150	REFER TO ALL NOTES
EF	418	CEILING	150	0.25	DIRECT	1.8	2.3	15	115/1/60	3.8	GREENHECK	SP-B150	REFER TO ALL NOTES
EF	422	CEILING	50	0.25	DIRECT	0.15	0.19	15	115/1/60	1.6	GREENHECK	SP-B70	REFER TO ALL NOTES
DF	422	IN LINE	160	0.05	DIRECT	0.48	0.6	15	120/1/60	-	FANTECH	DBF-110	2
EF	428	CEILING	70	0.25	DIRECT	0.19	0.25	15	230/1/60	1.9	GREENHECK	SP-B90	REFER TO ALL NOTES

1. FAN SHALL BE ENABLED THROUGH THE BAS OCCUPANCY SCHEDULE.
2. EXHAUST SHALL EXIT THROUGH GRILLE/VENT IN THE SOFFET.
3. PROVIDE VOLUME DAMPER.
4. PROVIDE BACKDRAFT DAMPER.
5. FAN SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER.

PUBLIC WORKS LOUVER SCHEDULE

TYPE	#	AIR FLOW	SIZE		FREE AREA	AIR VELOCITY	PRESSURE DROP	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL
			INLET WIDTH	INLET HEIGHT					
LVR-OA	419	1020 CFM	40"	16"	3.11 FT²	329 FPM	0.02"	RUSKIN	ELF6375DXD
LVR-EA	406	2290 CFM	32"	32"	4.19 FT²	546 FPM	0.05"	RUSKIN	ELF6375DXD
LVR-EA	426	2290 CFM	32"	32"	4.19 FT²	546 FPM	0.05"	RUSKIN	ELF6375DXD
LVR-EA	430	3440 CFM	40"	40"	7.21 FT²	477 FPM	0.04"	RUSKIN	ELF6375DXD

1. PROVIDE ALUMINUM BIRD SCREEN
2. LOUVER SHALL BE HURRICANE RATED AND MIAMI DADE COUNTY APPROVED.
3. SEE SPEC FOR FINISH

PUBLIC WORKS BRANCH SELECTOR SCHEDULE

MARK	#	REFRIGERANT DATA			ELECTRICAL				MAKE	MODEL
		REFRIGERANT CIRCUITS	TYPE	CONTROL	FLA	MCA	MOCP	V/ф/HZ		
BS	4.1	4	R410A	EEV	0.06	0.25	15	208-230/3/60	LG	PRHR043A
BS	4.2	4	R410A	EEV	0.06	0.25	15	208-230/3/60	LG	PRHR063A
BS	4.3	6	R410A	EEV	0.09	0.25	15	208-230/1/60	LG	PRHR063A
BS	4.4	4	R410A	EEV	0.06	0.25	15	208-230/1/60	LG	PRHR043A
BS	4.5	2	R410A	EEV	0.06	0.25	15	208-230/1/60	LG	PRHR023A

PUBLIC WORKS OUTDOOR UNIT SCHEDULE

MARK	#	COOLING MODE CAPACITY MBH	EER	IEER	COP AT 17°F AMBIENT	REFRIGERANT DATA			ELECTRICAL DATA				FAN QTY.	BASIS OF DESIGN		NOTES
						COMPRESSOR QTY	TYPE	EXPANSION DEVICE	RLA	MCA	MOCP	V/ф/HZ		MAKE	MODEL	
HRU	4.1	144	12.5	28.6	2.67	2	R410A	EEV	46.1	51.1	70	208-230/3/60	2	LG	ARUM144BTE5	REFER TO ALL NOTES
HRU	4.2	119.7	13.1	29.6	2.74	1	R410A	EEV	26.3	30.9	40	208-230/3/60	2	LG	ARUM121BTE5	REFER TO ALL NOTES

1. PROVIDE FRONT AND REAR WIND BAFFLES.
2. PROVIDE CONCRETE HURRICANE PAD.

PUBLIC WORKS GAS RADIANT HEATER SCHEDULE

Mark	#	FUEL TYPE	HEATING CAPACITY (MBH)	MOUNTING ANGLE °	HEIGHT AFF	BASIS OF DESIGN		NOTES
						MAKE	MODEL	
GH	4.1	NATURAL GAS	50	30.00°	10' - 0"	SOLARONICS	K-55	REFER TO ALL NOTES
GH	4.3	NATURAL GAS	55	30.00°	10' - 0"	SOLARONICS	K-55	REFER TO ALL NOTES
GH	4.2	NATURAL GAS	50	30.00°	10' - 0"	SOLARONICS	K-55	REFER TO ALL NOTES
GH	4.4	NATURAL GAS	60	30.00°	10' - 0"	SOLARONICS	K-60	REFER TO ALL NOTES
GH	4.5	NATURAL GAS	60	15.00°	10' - 0"	SOLARONICS	K-55	REFER TO ALL NOTES
GH	4.6	NATURAL GAS	65	15.00°	10' - 0"	SOLARONICS	K-55	REFER TO ALL NOTES
GH	4.7	NATURAL GAS	60	15.00°	10' - 0"	SOLARONICS	K-55	REFER TO ALL NOTES
GH	4.8	NATURAL GAS	65	15.00°	10' - 0"	SOLARONICS	K-55	REFER TO ALL NOTES

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE GAS SUPPLY FLEX CONNECTOR.
3. PROVIDE HARD WIRED THERMOSTAT.
4. PROVIDE CHAIN MOUNTING KIT

PUBLIC WORKS AIR TERMINAL SCHEDULE

TYPE	#	AIR FLOW	NECK SIZE	Module Size	NOISE CRITERIA (dB)	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL	Notes
CD	409A	120 CFM	6"ø	24" x 24"	23	TITUS	TMSA	-
CD	409B	120 CFM	6"ø	24" x 24"	<10	TITUS	TMSA	-
CD	411	30 CFM	4"ø	24" x 24"	<10	TITUS	TMSA	-
CD	417	190 CFM	6"ø	24" x 24"	12	TITUS	TMSA	-
CD	418	190 CFM	6"ø	24" x 24"	12	TITUS	TMSA	-
CD	421	75 CFM	4"ø	24" x 24"	15	TITUS	TMSA	-
EG	409	265 CFM	12"x8"	12"x8"	18	METALAIRE	RH	2
EG	413	50 CFM	6"x6"	6"x6"	<10	METALAIRE	RH	2
EG	416	50 CFM	6"x6"	6"x6"	<10	METALAIRE	RH	2
EG	417	210 CFM	10"x8"	10"x8"	19	METALAIRE	RH	2
EG	418	210 CFM	10"x8"	10"x8"	19	METALAIRE	RH	2
EG	422	70 CFM	6"x6"	6"x6"	<10	METALAIRE	RH	2
EG	422	200 CFM	4"x4"	4"x4"	<10	DUNDAS-JAFINE	SDV4WXZW	2
EG	428	70 CFM	6"x6"	6"x6"	<10	METALAIRE	RH	2
TG	428	70	20"x6"	-	-	PRICE	ATG1	-

PUBLIC WORKS CIRCULATION FAN SCHEDULE

MARK	#	FAN DIAMETER	ELECTRICAL DATA		NOTES
			MOTOR V/PH/HZ	FAN HP	
CF	4.1	36"	208-230/1/60	2/3 HP	1,2
CF	4.2	36"	208-230/1/60	2/3 HP	1,2
CF	4.3	36"	208-230/1/60	2/3 HP	1,2
CF	4.4	36"	208-230/1/60	2/3 HP	1,2
CF	4.5	36"	208-230/1/60	2/3 HP	1,2
CF	4.6	36"	208-230/1/60	2/3 HP	1,2
CF	4.7	36"	208-230/1/60	2/3 HP	1,2
CF	4.8	36"	208-230/1/60	2/3 HP	1,2
CF	4.9	36"	208-230/1/60	2/3 HP	1,2
CF	4.10	36"	208-230/1/60	2/3 HP	1,2
CF	4.11	14'-0"	200-240/1/60	1.5	3,4
CF	4.12	14'-0"	200-240/1/60	1.5	3,4
CF	4.13	14'-0"	200-240/1/60	1.5	3,4

1. PROVIDE WITH WALL MOUNT
2. PROVIDE WITH OCCUPANCY SENSOR.
3. PROVIDE WITH SPEED CONTROL.
4. INTEGRATE TO AND ENABLE/DISABLE WITH BAS.

PUBLIC WORKS WALL MOUNTED EXHAUST FAN SCHEDULE

MARK	#	TYPE	MIN FLOW CFM	MAX FLOW CFM	ESP	MOTOR				INLET SONNES	CONTROLS	BASIS OF DESIGN		NOTES
						DRIVE	ELECTRICAL							
							MOTOR HP	OPERATING HP	ELEC V/ф/HZ			MAKE	MODEL	
EF	406	INT. WALL MOUNTED	500	2290	0.25	DIRECT	3/4	0.07	208/1/60	10.4	BAS, CO/NO2 SENSOR	GREENHECK	AER-24-02-0310-VG	REFER TO ALL NOTES
EF	426	INT. WALL MOUNTED	500	2290	0.25	DIRECT	3/4	0.07	208/1/60	10.4	BAS, CO/NO2 SENSOR	GREENHECK	AER-24-02-0310-VG	REFER TO ALL NOTES
EF	430	INT. WALL MOUNTED	700	3440	0.25	DIRECT	3/4	0.27	208/1/60	12.3	BAS, CO/NO2 SENSOR	GREENHECK	AER-24-02-0310	REFER TO ALL NOTES

1. FAN SHALL BE ENABLED ANY TIME THE BUILDING IS OCCUPIED.
2. PROVIDE BACKDRAFT DAMPER.
3. PROVIDE WITH VARIABLE FREQUENCY DRIVE.

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SPRINGFIELD CITY COMPLEX

City of Springfield
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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 10-03-2023
DESIGNED BY: SETH MCGRAW
DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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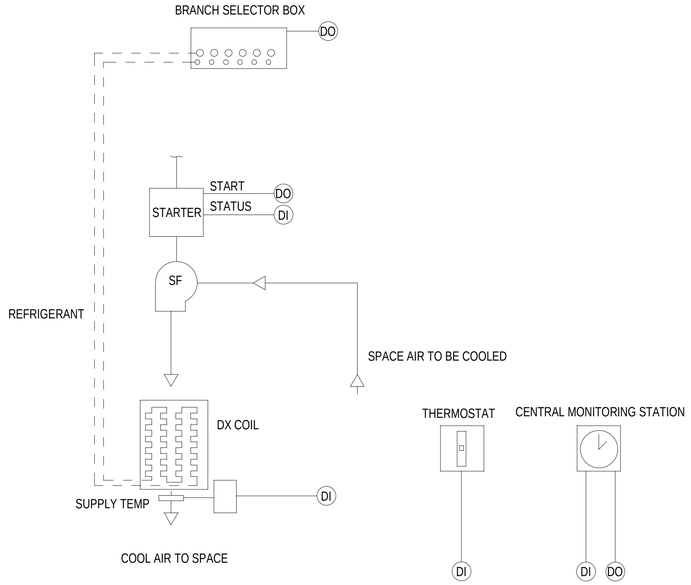
SHEET TITLE:
PUBLIC WORKS HVAC AIR TERMINALS AND EQUIPMENT SCHEDULES

SHEET NUMBER:
M4-61

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:34:11 AM

ISSUED FOR BIDS-AUGUST 2024



1. ALL FOLLOWING SETPOINTS SHALL BE ADJUSTABLE.

2. ALL FAN COIL UNITS SHALL REPORT TO ONE CENTRAL DDC MONITORING STATION. LIVE DATA FOR ALL OUTPUTS AND INPUTS IN THE ABOVE CONTROL DIAGRAM SHALL HAVE THE ABILITY TO BE MONITORED FROM THE CENTRAL DDC STATION.

3. UPON ENTERING THE OCCUPANCY TIME PERIOD, ALL FAN COIL FANS SHALL START. FANS SHALL NOT DISABLE UNTIL THE BUILDING ENTERS UNOCCUPIED MODE OR A FIRE ALARM SIGNAL IS PRESENT.

4. WHEN IN OCCUPIED MODE, THE FAN COIL SHALL CONTROL THE SPACAE TEMPERATURE TO BE WITHIN GHTE COOLING AND HEATING SETPOINTS.

5. WHEN SYSTEM IS IN UNOCCUPIED MODE, THE SYSTEM SHALL OCNTROL THE SPACE TEMPERATURE TO THE NIGHT SETBACK COOLING AND HEATING SETPOINTS.

6. WHEN STEPOINT IS MET AND THE UNIT IS IN UNOCCUPIED MODE, THE FAN SHALL STOP.

7. AT ANY TIME (OCCUPIED OR UNOCCUPIED) THE RH IS ABOVE 60% (ADJ.): DOAS SHALL START, ALL FAN COILS SHALL START, AND DOAS SHALL COOL OUTSIDE AIR TO 51°F AND REHEAT TO 70°F VIA HOT GAS REHEAT. THIS OPERATION SHALL CONTINUE UNTIL SPACE HUMIDITY REACHES 55% RH (ADJ.), AFTER WHICH FAN COILS AND DOAS SHALL RESUME THEIR PREVIOUS OPERATIONS BASED ON THE TIME OF DAY SCHEDULING.

8. ALL FAN COILS SHALL DISABLE UPON A SIGNAL FROM THE FIRE ALARM PANEL.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
COOLING SETPOINT:	72 °F (ADJ.)
HEATING SETPOINT:	68°F (ADJ)
NSB COOLING SETPOINT:	80°F (ADJ)
NSB HEATING SETPOINT:	55°F (ADJ.)

MECHANICAL CONTROLS DIAGRAM - VRF FAN COILS

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PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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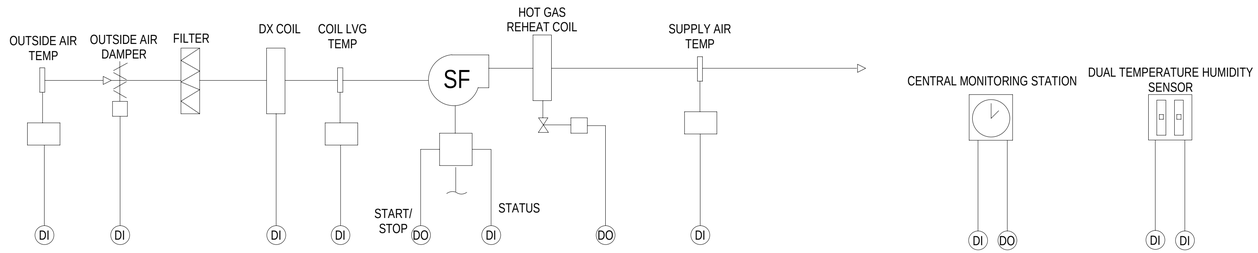
SHEET TITLE:

PUBLIC WORKS
VRF FAN COILS
SEQUENCE

SHEET NUMBER:

M4-62



1. ALL SETPOINTS BELOW SHALL BE ADJUSTABLE.

2. ALL DOAS UNITS SHALL REPORT TO ONE CENTRAL DDC MONITORING STATION. LIVE DATA FOR ALL OUTPUTS AND INPUTS IN THE ABOVE CONTROL DIAGRAM SHALL HAVE THE ABILITY TO BE MONITORED FROM THE CENTRAL DDC STATION.

3. DOAS SHALL BE SCHEDULED FROM THE CENTRAL DDC STATION.

4. DOAS SHALL ALWAYS BE ENABLED DURING THE OCCUPIED TIME FRAME.

5. WHEN ENABLED, THE TWO-POSITION OUTSIDE AIR DAMPER SHALL OPEN, THE FAN SHALL START, AND THE ASSOCIATED HEAT RECOVERY UNIT SHALL ENABLE.

7. WHEN THE BUILDING BECOMES UNOCCUPIED, ASSOCIATED HEAT RECOVERY UNIT SHALL DISABLE, DOAS FAN SHALL DISABLE, AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

8. OCCUPANCY SCHEDULE SHALL BE SET BY OWNER.

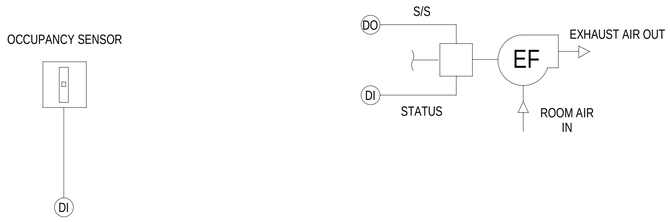
9. AT ANY TIME (OCCUPIED OR UNOCCUPIED) THE RH IS ABOVE 60% (ADJ.): DOAS SHALL START, ALL FAN COILS SHALL START, AND DOAS SHALL COOL OUTSIDE AIR TO 51°F AND REHEAT TO 70°F VIA HOT GAS REHEAT. THIS OPERATION SHALL CONTINUE UNTIL SPACE HUMIDITY REACHES 55% RH (ADJ.), AFTER WHICH FAN COILS AND DOAS SHALL RESUME THEIR PREVIOUS OPERATIONS BASED ON THE TIME OF DAY SCHEDULING.

10. DOAS SHALL BE INTERLOCKED WITH THE FIRE ALARM RELAY.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
COOLING COIL LEAVING AIR TEMPERATURE SETPOINT:	51°F
DISCHARGE AIR TEMPERATURE SETPOINT:	70°F
MAX SPACE HUMIDITY SETPOINT:	60%RH (ADJ.)

MECHANICAL CONTROL DIAGRAM - DOAS

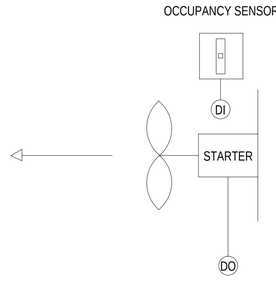


1. EXHAUST FANS START WITH THE INPUT FROM THE OCCUPANCY SENSOR IN THE SPACE.

2. EXHAUST FANS SHALL STOP AFTER NO PERSON HAS BEEN DETECTED IN THE SPACE FOR 5 CONSECUTIVE MINUTES.

MECHANICAL CONTROLS DIAGRAM - EXHAUST FAN OCCUPANCY SENSOR

ALL



1. CIRCULATION FANS SHALL START AND STOP WITH THE INPUT FROM THE BAS.

CIRCULATION FANS CONTROL SEQUENCE

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SPRINGFIELD CITY COMPLEX

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DESCRIPTION | REV. | DATE

DATE: 10-03-2023
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DRAWN BY: SETH MCGRAW
CHECKED BY: G. PETERSON
PROJECT ARCHITECT: THOMAS JARMAN
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO: 502100062-005

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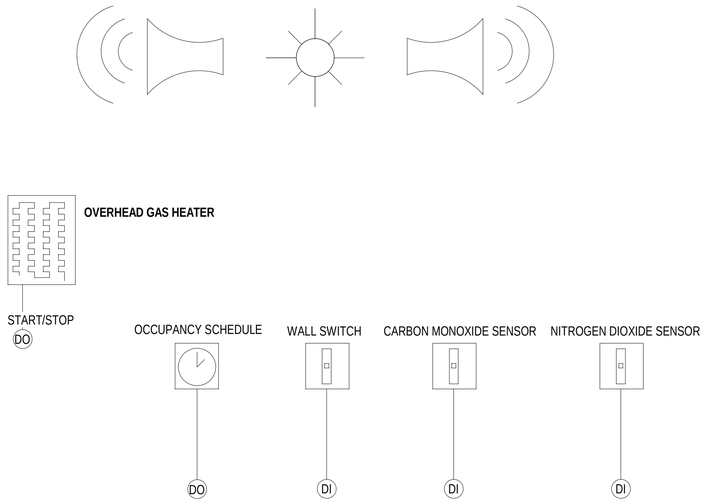
SHEET TITLE:

PUBLIC WORKS DOAS, EF, AND CF SEQUENCES

SHEET NUMBER:

M4-63



1. FAN SHALL BE STARTED AND STOPPED THROUGH AN OCCUPANCY SCHEDULE, HEAT CALL, OR AN EMERGENCY PURGE SIGNAL.

2. FAN SHALL RUN CONTINUOUSLY ANY TIME THE VEHICLE MAINTENANCE BAY IS SCHDULED TO BE OCCUPIED.

3. WHEN NOT IN PURGE MODE OR HEATING MODE, FAN SHALL RUN AT SPEED REQUIRED TO SUPPLY THE MINIMUM VENTILATION FLOW RATE.

4. WHEN CARBON MONOXIDE OR NITROGEN DIOXIDE REACH ALARM LEVELS, ALL BAY FANS SHALL ENTER PURGE MODE AND RAMP TO EXHAUST AT THE PURGE MODE VENTILATION AIR FLOW RATE UNTIL NO GAS SENSOR HAS DETECTED GAS AT ALARM LEVELS FOR A TIME PERIOD SET BY OWNER. AN AUDIBLE AND VISUAL ALARM SHALL BE INDICATED IN THE APPARATUS BAY TO WARN OCCUPANTS OF PURGE MODE OPERATION.

5. HEATERS SHALL NOT START UNTIL EXHAUST FAN IS AT MINIMUM VENTILATION SPEED.

6. OCCUPANCY SCHEDULE SHALL BE SET BY THE OWNER.

7. FANS SHALL STOP WHEN BUILDING IS UNOCCUIPED.

8. GAS PURGE OPERATION SHALL PERSIST DURING UNOCCUPIED MODE.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
NO_2 PURGE	1 PPM
CO PURGE	25 PPM
MINIMUM VENTILATION AIR FLOW RATE	500 CFM
PURGE MODE VENTILATION AIR FLOW RATE	2290 CFM

MECHANICAL CONTROLS DIAGRAM - TYPICAL BAY GROUP

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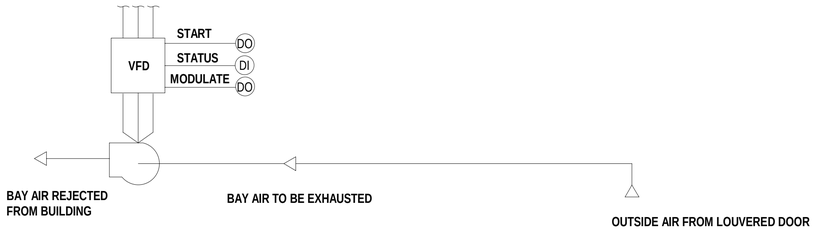
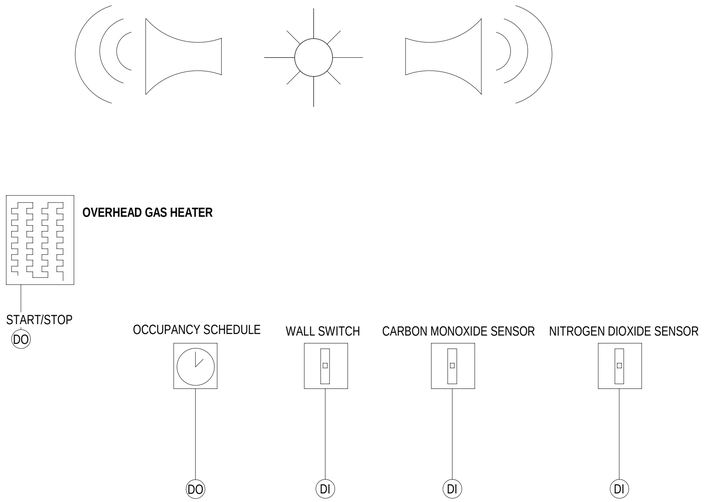
SHEET TITLE:

PUBLIC WORKS BAY CONTROLS SEQUENCE

SHEET NUMBER:

M4-64





1. FAN SHALL BE STARTED AND STOPPED THROUGH AN OCCUPANCY SCHEDULE, HEAT CALL, OR AN EMERGENCY PURGE SIGNAL.

2. FAN SHALL RUN CONTINUOUSLY ANY TIME THE VEHICLE MAINTENANCE BAY IS SCHDULED TO BE OCCUPIED.

3. WHEN NOT IN PURGE MODE OR HEATING MODE, FAN SHALL RUN AT SPEED REQUIRED TO SUPPLY THE MINIMUM VENTILATION FLOW RATE.

4. WHEN CARBON MONOXIDE OR NITROGEN DIOXIDE REACH ALARM LEVELS, ALL BAY FANS SHALL ENTER PURGE MODE AND RAMP TO EXHAUST AT THE PURGE MODE VENTILATION AIR FLOW RATE UNTIL NO GAS SENSOR HAS DETECTED GAS AT ALARM LEVELS FOR A TIME PERIOD SET BY OWNER. AN AUDIBLE AND VISUAL ALARM SHALL BE INDICATED IN THE APPARATUS BAY TO WARN OCCUPANTS OF PURGE MODE OPERATION.

5. HEATERS SHALL NOT START UNTIL EXHAUST FAN IS AT MINIMUM HEATING VENTILATION SPEED.

6. OCCUPANCY SCHEDULE SHALL BE SET BY THE OWNER.

7. FANS SHALL STOP WHEN BUILDING IS UNOCCUIPED.

8. GAS PURGE OPERATION SHALL PERSIST DURING UNOCCUPIED MODE.

CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
NO_2 PURGE	1 PPM
CO PURGE	25 PPM
MINIMUM VENTILATION AIR FLOW RATE	700 CFM
HEATING VENTILATION AIR FLOW RATE	875 CFM
PURGE MODE VENTILATION AIR FLOW RATE	3440 CFM

MECHANICAL CONTROLS DIAGRAM - PUBLIC WORKS VEHICLE MAINTENANCE BAY

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SHEET TITLE:

PUBLIC WORKS MAINTENANCE BAY CONTROLS SEQUENCE

SHEET NUMBER:

M4-65

ISSUED FOR BIDS-AUGUST 2024

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, N.F.P.A., O.S.H.A. REGULATIONS AND ALL OTHER EXISTING CODES AND REGULATIONS OF AUTHORITIES WHICH HAVE JURISDICTION.
2. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR CONDUIT IS SHOWN. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING ANY MATERIAL, OR PERFORMING ANY WORK. ANY DEPARTURE FROM CONCEPT SHOWN ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND/OR REQUIRED FOR THE FULL INTEGRITY OF THE CONTRACT SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE CONTRACTOR, EXCEPT WHERE EQUIPMENT SHOWN IS IDENTIFIED AS "EXISTING" OR OTHERWISE NOTED ON THE DRAWINGS.
3. UNLESS OTHERWISE NOTED, EQUIPMENT AND MATERIALS TO BE PROVIDED SHALL BEAR LISTING AND LABELING BY A NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARD HAD BEEN ESTABLISHED FOR THAT TYPE OF EQUIPMENT/MATERIAL.
4. THE CONTRACTOR SHALL SUBMIT DETAILED EQUIPMENT LAYOUT PLANS, SECTIONS, AND MOUNTING DETAILS SHOWING PROPOSED LOCATION OF ALL EQUIPMENT AND REQUIRED WORKING/SERVICE CLEARANCES PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL VISIT THE PROJECT SITE AND EXAMINE AND CONFIRM EXISTING CONDITIONS. ALL CHANGES SHALL BE PRESENTED DURING SHOP DRAWING SUBMITTALS FOR ENGINEER'S APPROVAL.
6. CONDUITS SHALL CONTAIN AN INSULATED GROUND WIRE BONDED TO ENCLOSURES AND SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC, IF SIZE IS NOT SHOWN ON THE CONTRACT DRAWINGS.
7. THE CONTRACTOR SHALL PROVIDE CONDUIT FITTINGS, CONNECTORS, CLAMPS, HARDWARE, HANGERS, AND SUPPORTS AS NECESSARY FOR A COMPLETE INSTALLATION.
8. THE CONTRACTOR SHALL PROVIDE TAGS FOR EQUIPMENT, CONDUITS, AND CABLES THAT ARE INSTALLED UNDER THIS CONTRACT. TAG IDENTIFICATIONS SHALL BE IN ACCORDANCE WITH CONTRACT DRAWINGS. TAGS FOR CONDUITS SHALL BE AS DESCRIBED IN SPECIFICATIONS.
9. UNUSED OPENINGS IN CONDUITS, BOXES, DISCONNECT SWITCHES, CABINETS, AND PANEL BOARDS SHALL BE CAPPED OR PLUGGED.
10. UPDATE EXISTING PANELBOARD DIRECTORIES TO REFLECT THE CIRCUITING IN EXISTING PANELBOARDS AFFECTED BY THIS ALTERATION.
11. CONTRACTOR SHALL PROVIDE THE NECESSARY MATERIALS, LABOR AND ATTENDANCE FOR THE OPERATION OF TEMPORARY LIGHT AND CONSTRUCTION POWER AS REQUIRED DURING WORKING HOURS FOR THE ENTIRE CONSTRUCTION PERIOD.
12. CONTRACTOR SHALL MAINTAIN CONTINUITY OF ANY EXISTING CIRCUITS AFFECTED BY THIS ALTERATION. RECONNECT ALL ALTERED OR REROUTED WIRING TO ITS FULLY FUNCTIONAL STATE PRIOR TO ALTERATION.
13. PROVIDE ALL NECESSARY TEMPORARY WIRING TO MAINTAIN EXISTING INSTALLATIONS WHICH MUST REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
14. ALL BRANCH CIRCUITS OVER 75 FEET IN LENGTH SHALL BE RUN WITH #10 CONDUCTOR, UNLESS OTHERWISE NOTED.
15. SCHEDULE ALL DISCONNECTION AND INTERRUPTIONS OF ELECTRICAL SERVICE, COMMUNICATIONS AND SUPERVISORY SYSTEMS WITH THE OWNER AND ENGINEER.
16. CONTRACTORS SHALL FOLLOW ALL OWNER SITE SAFETY WORK PROCESSES AND PROCEDURES, FOR EXAMPLE, WORK PERMITS, SAFETY TASK ANALYSIES, LOCKOUT TAGOUT (LOTO), LOCK, TAG AND TRY, AND RED TAG, ETC.
17. CONTRACTORS SHALL COORDINATE ALL WORK ACTIVITIES WITH OPERATIONS, MAINTENANCE, AND OTHER CONTRACTORS.
18. UNLESS SPECIFICALLY NOTED, ALL ELECTRICAL EQUIPMENT (GENERATORS, AUTOMATIC TRANSFER SWITCHES, PANELBOARDS, MOTOR CONTROLLERS, WIRE, PANELBOARDS, SWITCHBOARDS, DISCONNECTS, LIGHTING, INSTRUMENTS, CONTROL PANELS, MOTOR, ETC) THAT MAY BE SHOWN AS TO BE REMOVED ARE THE PROPERTY OF THE OWNER AND SHALL BE RETURNED TO THE OWNER.

ABBREVIATIONS

A OR AMP	AMPERES
ACT	ABOVE COUNTER TOP (6")
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AM	AMMETER
APPROX	APPROXIMATELY
AS	AMMETER SELECTION SWITCH
ASYM	ASYMMETRICAL
AT	AMP TRIP
ATC	AUTOMATIC TRANSFER CONTROLLER
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
C	CONDUIT
C, CDT	CONDUIT
C, /C	CONDUCTOR
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CO	COMPANY
COL	COLUMN
CNTL	CONTROL
CSLD	CONTINUOUS STATISTICAL LEAK DETECTION
CT	CURRENT TRANSFORMER
Cu	CABLE
D	DEPTH
DIA	DIAMETER
DS OR DISC	DISCONNECT SWITCH
DWG(S)	DRAWING(S)
ELEC	ELECTRIC, ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ESTOP	EMERGENCY STOP
EX, EXIST.	EXISTING
EXP	EXPLOSION PROOF
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUND CONDUCTOR
ETC	ET CETERA
EXIST	EXISTING
F	FUSE
FCR	FLOAT CONTROL RELAY
FL, FLR	FLOOR
FT	FEET
G OR GND	GROUND
GA	GAUGE
GALV	GALVANIZED
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFI	GROUND FAULT INTERRUPTING
H-O-A	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR
IG	ISOLATED GROUND
ISBR	INTRINSICALLY SAFE BARRIER RELAY
IMC	INTERMEDIATE METAL CONDUIT
IN	INCH
IR	INFRARED
ISCA	INSTANTANEOUS SHORT CIRCUIT AVAILABLE
JB OR J	JUNCTION BOX
kVA	KILOVOLT - AMPS
kW	KILOWATTS
kWH	KILOWATT-HOUR
L	LENGTH
LA	LIGHTNING ARRESTOR
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
MAX	MAXIMUM
MCB OR MB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MH OR MTG	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFRS ASSOCIATION
NF	NON-FUSIBLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
No.	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
O/F	OVERFILL
OHE	OVERHEAD ELECTRICAL
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P	POLE
PERM	PERMANENT
PFC	POWER FACTOR CAPACITOR
PH, □	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PR	PAIR

ABBREVIATIONS

PVC	POLYVINYLCHLORIDE CONDUIT
PWR	POWER
R&R	REMOVE AND RELOCATE
R	RELOCATE
RE	RELOCATED
RECEPT	RECEPTACLE
REF	REFERENCE
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
SE	SERVICE ENTRANCE
SF	SEAL FITTING
SH	SHIELDED
SS	STAINLESS STEEL
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TEL	TELEPHONE
TWIS	TWISTED INDIVIDUAL SHIELD
TWOS	TWISTED OUTER SHIELD
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES
UV	ULTRAVIOLET
V	VOLTS
VA	VOLT AMPS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VMS	VOLTMETER SELECTOR SWITCH
W	WATT
W/	WITH
W/O	WITHOUT
WM	WATTMETER
WP	WEATHER PROOF
XFMR	TRANSFORMER

ONE-LINE DIAGRAM

	CONNECTION TO ELECTRICAL UTILITY. VOLTAGE, PHASES AS INDICATED
M	UTILITY METER
G XX kW YY V	GENERATOR - 'XX' DESIGNATES POWER RATING - 'YY' DESIGNATES VOLTAGE
X:Y Z	CURRENT TRANSFORMER (CT). 'X:Y' INDICATES RATIO 'Z' INDICATES QUANTITY (1 PER PHASE UNLESS OTHERWISE INDICATED)
X:Y (Z)	POTENTIAL TRANSFORMER (PT). 'X:Y' INDICATES RATIO 'Z' INDICATES QUANTITY (1 PER PHASE UNLESS OTHERWISE INDICATED)
XFMR XX kVA YY-ZZV R%	TWO WINDING TRANSFORMER, PHASES AS DETERMINED BY OCPD -'Z' INDICATES % IMPEDANCE ANSI STANDARD IF NOT SPECIFIED -'WW' INDICATES STRUCTURE DESIGNATION -'XX' INDICATES POWER RATING -'YY' INDICATES PRIMARY VOLTAGE -'QQ' INDICATES SECONDARY VOLTAGE WINDINGS AS INDICATED -'△' INDICATES DELTA CONNECTION -'⏚' INDICATES WYE CONNECTION WITH GROUNDED NEUTRAL
XX kVA YY-ZZV Z% / XFMR:W / XX kVA YY-ZZV Z% / XX kVA YY-ZZV Z%	THREE WINDING TRANSFORMER -'W' INDICATES STRUCTURE DESIGNATION -'XX' INDICATES POWER RATING (BY WINDING) -'YY' INDICATES VOLTAGE RATING (BY WINDING) -'Z' INDICATES IMPEDANCE (BY WINDING) -'△' INDICATES DELTA CONNECTION -' ' INDICATES WYE CONNECTION WITH GROUNDED NEUTRAL
N E L WTS XXA Y	TRANSFER SWITCH - 'W' INDICATES A: AUTOMATIC M: MANUAL - 'XX' INDICATES RATING IN AMPS - 'Y' INDICATES NUMBER OF POLES
N E L XXA/Y Y	BYPASS ISOLATION TRANSFER SWITCH -'XX' INDICATES AMPERE RATING -'Y' INDICATES NUMBER OF POLES
XXA/Y Y	SWITCH -'XX' INDICATES AMPERE RATING -'Y' INDICATES NUMBER OF POLES
52 XXAT YYAF	MEDIUM & HIGH VOLTAGE CIRCUIT BREAKER - 'XX' INDICATES TRIP RATING IN AMPS - 'YY' INDICATES FRAME RATING
XXAT/W YYAF Z	LOW VOLTAGE MOLDED CASE CIRCUIT BREAKER. - 'XX' INDICATES TRIP RATING IN AMPS (IF TRIP INTEGRAL) - 'YY' INDICATES FRAME RATING, ID SPECIFIED - 'W' INDICATES NUMBER OF POLES (3 UNLESS OTHERWISE NOTED) - 'Z' DESIGNATES TYPE: BLANK: THERMAL MAGNETIC LSI: ELECTRONIC TRIP MCP: MOTOR CIRCUIT PROTECTOR GFI: GROUND FAULT INTERRUPTING

ONE-LINE DIAGRAM

XXA Z	FUSE - 'XX' INDICATES TRIP RATING IN AMPS - 'Z' INDICATES CLASSIFICATION (IF SPECIFIED)
	ANGLED BRACKETS INDICATE DRAWOUT DEVICE
XX	PROTECTIVE RELAY, METERING, OR INTERLOCKING DEVICE. 'XX' DESIGNATIONS: A: AMMETER V: VOLTMETER PF: POWER FACTOR K: KIRK KEY INTERLOCK I: ELECTRICAL INTERLOCK 25: SYNCHRONISM CHECK 27: UNDER VOLTAGE 46: CURRENT UNBALANCE 47: PHASE-SEQUENCE VOLTAGE 50: INSTANTANEOUS OVERCURRENT 51: TIME OVERCURRENT 52: AC CIRCUIT BREAKER 55: POWER FACTOR 59: OVER VOLTAGE 64: GROUND PROTECTIVE RELAY 81: FREQUENCY 86: LOCKING OUT RELAY * SPECIFIC MINIMUM FUNCTIONS TO BE LISTED BY ANSI/IEEE DEVICE NUMBERS
X	FULL VOLTAGE NON REVERSING CONTACTOR 'X' DESIGNATES NEMA SIZE OR: BC: BYPASS CONTACTOR OC: OUTPUT ISOLATION CONTACTOR IC: INPUT ISOLATION CONTACTOR
XXA/Y	LIGHTING CONTACTOR -'XX' DESIGNATES AMPERE RATING -'Y DESIGNATES NUMBER OF POLES
XXA/Y	LIGHTING CONTACTOR -'XX' DESIGNATES AMPERE RATING -'Y DESIGNATES NUMBER OF POLES
X	MOTOR OVERLOAD. RATED FOR DEVICE PROTECTING. CLASS 20 UNLESS OTHERWISE INDICATED. -'X' DESIGNATES TYPE: T-THERMAL E-ELECTRONIC.
F R X	FULL VOLTAGE REVERSING CONTACTOR -'X' DESIGNATES NEMA SIZE. -'F' INDICATES FORWARD CONTACTOR. -'R' INDICATES REVERSING CONTACTOR.
H L X	TWO SPEED STARTER -'X' DESIGNATES NEMA SIZE. -'H' INDICATES HIGH SPEED CONTACTOR. -'L' INDICATES LOW SPEED CONTACTOR.
X Y%	REDUCED VOLTAGE AUTOTRANSFORMER -'X' DESIGNATES NEMA SIZE. -'Y' INDICATES TAP PERCENTAGE.
VFD XXA	VARIABLE FREQUENCY DRIVE. -'XX' INDICATES MINIMUM AMP RATING (IF NOT SPECIFIED, VFD TO MATCH HORSEPOWER RATING OF MOTOR SUPPLIED).
RVSS XXA	REDUCED VOLTAGE SOFT START. -'XX' INDICATES MINIMUM AMP RATING (IF NOT SPECIFIED, RVSS TO MATCH HORSEPOWER RATING OF MOTOR SUPPLIED).
XXA/Y	NON-FUSED DISCONNECT SWITCH - 'XX' DESIGNATES AMPERE RATING OF DISCONNECT. - 'Y' DESIGNATES NUMBER OF POLES
XXA/Y	FUSED DISCONNECT SWITCH - 'XX' DESIGNATES AMPERE RATING OF FUSE. DISCONNECT AMPERE RATING TO BE EQUAL TO FUSE RATING OR THE NEXT LARGEST TRADE SIZE. - 'Y' DESIGNATES NUMBER OF POLES

ONE-LINE DIAGRAM

WW XX HP	INDUCTION MOTOR -'WW' INDICATES EQUIPMENT DESIGNATION. -'XX' INDICATES HORSEPOWER RATING.
WW XX HP	SYNCHRONOUS MOTOR -'WW' INDICATES EQUIPMENT DESIGNATION. -'XX' INDICATES HORSEPOWER RATING.
'X'	PANELBOARD - 'X' INDICATES STRUCTURE DESIGNATION.
UPS	UNINTERRUPTIBLE POWER SUPPLY.
SPD	SURGE SUPPRESSION DEVICE.
'XX'	LIGHTNING ARRESTORS - 'XX' INDICATES IC: INTERMEDIATE CLASS DC: DISTRIBUTION CLASS SC: STATION CLASS
	EARTH GROUND
Z%	LINE OR LOAD REACTOR. 'Z' DESIGNATES % IMPEDANCE.
XXkVAR	CAPACITOR - 'XX' INDICATES kVar RATING
ZZ	RESISTOR - 'ZZ' INDICATES IMPEDANCE IN OHMS
	MISCELLANEOUS ELECTRICAL EQUIPMENT, SUCH AS PANEL, ETC. EQUIPMENT TYPE AND RATINGS TO BE INDICATED.
	ELECTRICAL EQUIPMENT BOUNDARY. INDICATES MULTIPLE DEVICES ENCLOSED WITHIN BORDER ARE LOCATED WITHIN THE SAME ENCLOSURE, OR MOUNTED TO SAME PANEL RACK.
XXA Y	PORTABLE POWER CONNECTION -'XX' INDICATES AMPERE RATING -'Y' DESIGNATES TYPE: 3: 3 WIRE + GROUND 4: 4 WIRE + GROUND

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REV.	DATE	DESCRIPTION

DATE: 5-18-2022
DESIGNED BY: SJR
DRAWN BY: HDE
CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO.: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:
ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES

SHEET NUMBER:
E0.01

ISSUED FOR BIDS-AUGUST 2024

LIGHTING

CEILING MOUNTED FIXTURE.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.
2x4.DWG

FIXTURE PROVIDING EMERGENCY ILLUMINATION.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

CEILING MOUNTED DOWNLIGHTING FIXTURE.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

SURFACE MOUNT OR SUSPENDED FIXTURE
INDUSTRIAL STRIP TYPE FIXTURE
XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

WALL MOUNTED FIXTURE.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

TRACK LIGHTING. LENGTH AND NUMBER OF FIXTURES AS INDICATED ON PLANS. 'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

TWIN HEAD EMERGENCY BATTERY UNIT.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

CEILING MOUNTED REMOTE BATTERY HEADS.
AIMING AS INDICATED.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

WALL MOUNTED REMOTE BATTERY HEADS.
AIMING AS INDICATED.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

EXIT SIGN; CEILING MOUNTED; ARROWS AS INDICATED. 'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

EXIT SIGN; WALL MOUNTED; ARROWS AS INDICATED.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

EXIT SIGN WITH EMERGENCY HEADS; ARROWS AS INDICATED.
'XX' DESIGNATES FIXTURE TYP AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

POLE MOUNTED LIGHT FIXTURE.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE. ONLY SINGLE FIXTURE SHOWN.

WALL SWITCH.
'XX' DESIGNATES:
NO SUBSCRIPT DENOTES SINGLE POLE
3 - 3 WAY SWITCH
4 - 4 WAY SWITCH
D - DIMMER
K - KEY OPERATED
L - WITH PILOT LIGHT
M - MOTOR RATED
O - OCCUPANCY MOTION SENSOR W/OVERRIDE
T - TIMER
AS - DENOTES OCCUPANCY OVERRIDE
CR - CORROSION RESISTANT
EP - EXPLOSION PROOF
TS - TIME SWITCH
WP - WEATHERPROOF

LC — LIGHTING CONTROL POWER PACK

X — CEILING MOUNTED SENSOR.
'X' DESIGNATES SENSOR AS SPECIFIED IN THE SENSOR SCHEDULE.

X — WALL MOUNTED OCCUPANCY SENSOR.
'X' DESIGNATES SENSOR AS SPECIFIED IN THE SENSOR SCHEDULE.

ALL DEVICES/PLATES TO BE IN OWNERS CHOICE OF COLORS.

RACEWAYS

OVERHEAD ELECTRICAL

CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS

CONDUIT RUN BELOW GRADE OR IN SLAB

CONDUIT RUN EXPOSED PARALLEL OR PERPENDICULAR TO BUILDING LINES

HOMERUN TO PANELBOARD ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2#12, 1#12 GRD. MINIMUM CONDUIT SIZE SHALL BE 3/4"

FLEXIBLE CONDUIT

CONDUIT TURNING DOWN

CONDUIT TURNING UP

CONDUIT CAPPED

EXPLOSIONPROOF CONDUIT SEAL

CONDUIT EXPANSION FITTING

HH — HAND HOLE (SIZE PER NEC)

MH — MAN HOLE (SIZE PER NEC)

PB — PULL BOX (DRAWN TO SCALE ON PLANS)

CABLE TRAY (DRAWN TO SCALE ON PLANS)

CONCRETE ENCASED DUCT BANK BELOW GRADE

W-XXXX-YY — CABLE TAG.
DESIGNATIONS:
FOR 'W': H - POWER (>5kVAC)
M - POWER (601-4999VAC)
P - POWER (241-600VAC)
L - POWER (51-240VAC)
D - DC POWER
C - CONTROL (TO A STARTER)
I - INSTRUMENTATION (TO A PLC)
E - EMERGENCY SHUT DOWN
F - FIBER OPTIC COMMUNICATIONS
O - OTHER COMMUNICATIONS

FOR 'XXXX': EQUIPMENT REFERENCE

FOR 'YY': ALPHANUMERIC SUFFIX AS NEEDED

XXX.YYY — RACEWAY TAG.
DESIGNATIONS:
FOR 'XXX': ELECTRICAL SHEET REFERENCE

FOR 'YY': SEQUENTIAL REFERENCE

GROUNDING & LIGHTNING PROTECTION

CONNECTION TO GROUND GRID. MECHANICAL OR CADWELD CONNECTION AS NOTED.

GROUND ROD.

GROUND TEST STATION.

GROUND ANODE.

VEHICLE GROUNDING STATION.

GROUNDING GRID OR COUNTERPOISE SYSTEM CONDUCTOR.

LIGHTING PROTECTION AIR TERMINAL.

LIGHTNING PROTECTION DISSIPATION AIR TERMINAL.

LIGHTNING PROTECTION SYSTEM CONDUCTOR.

LIGHTNING PROTECTION SYSTEM DOWN CONDUCTOR.

ELEMENTARY WIRING SCHEMATICS

PRESSURE SWITCH - NORMALLY OPEN.

PRESSURE SWITCH - NORMALLY CLOSED.

DIFFERENTIAL PRESSURE SWITCH - NORMALLY OPEN.

DIFFERENTIAL PRESSURE SWITCH - NORMALLY CLOSED.

TIME DELAY SWITCH - TIMER ON DELAY (CLOSES AFTER TIMER EXPIRES).

TIMER DELAY SWITCH - TIMER OFF DELAY (OPENS AFTER TIMER EXPIRES).

VIBRATION SWITCH - NORMALLY OPEN

VIBRATION SWITCH - NORMALLY CLOSED

X — PANEL MOUNTED INDICATOR LIGHT
"X" INDICATES COLOR:
A - AMBER
G - GREEN
R - RED
W - WHITE
B - BLUE

X — PANEL MOUNTED INDICATOR LIGHT
'PUSH TO TEST' TYPE.
"X" INDICATES COLOR:
A - AMBER
G - GREEN
R - RED
W - WHITE
B - BLUE

X TB# — X TB# — EXTERNALLY MOUNTED DEVICE.
DASHED LINE INDICATES WIRING EXTERNAL TO PANEL.

X TB# — TERMINAL BLOCK.
"X" INDICATES TERMINAL NUMBER.
"#" INDICATES TERMINAL BLOCK NUMBER

PHOTOCELL.

00X / X00 — SELECTOR SWITCH.
"X" INDICATES SWITCH POSITION.
TOTAL DIGITS PER LINE INDICATES NUMBER OF SWITCH POSITIONS (THREE SHOWN).

MOMENTARY PUSH BUTTON - NORMALLY OPEN

MOMENTARY PUSH BUTTON - NORMALLY CLOSED

EMERGENCY SHUTDOWN/STOP - NORMALLY CLOSED

X — COIL CONTACTS.
VOLTAGE AS INDICATED ON SCHEMATICS
"X" DESIGNATES:
C - CONTROL RELAY
LC - LIGHTING CONTACTOR
M - MOTOR CONTACTOR
T - TIME DELAY RELAY

SOLENOID COIL.

NORMALLY OPEN CONTACT.

NORMALLY CLOSED CONTACT.

LIMIT SWITCH - NORMALLY OPEN.

LIMIT SWITCH - NORMALLY CLOSED.

LIMIT SWITCH - NORMALLY OPEN, HELD CLOSED.

LIMIT SWITCH - NORMALLY CLOSED, HELD OPEN.

LIQUID LEVEL (FLOAT) SWITCH - NORMALLY OPEN.

LIQUID LEVEL (FLOAT) SWITCH - NORMALLY CLOSED.

FLOW SWITCH - NORMALLY OPEN.

FLOW SWITCH - NORMALLY CLOSED.

ELEMENTARY WIRING SCHEMATICS

TEMPERATURE SWITCH - NORMALLY OPEN.

TEMPERATURE SWITCH - NORMALLY CLOSED.

OUTLETS AND RECEPTACLES

XX — DUPLEX RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED.

XX — QUADPLEX RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED.

XX — SINGLE OUTLET RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED.

XX — SPECIAL PURPOSE RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED.

FOR ALL RECEPTACLES, 'XX' DESIGNATES:
AC - INSTALL 6" ABOVE COUNTER / BACKSPLASH (GFI REQUIRED).
CLG - CEILING MOUNT
CR - CORROSION RESISTANT
EP - EXPLOSION PROOF
GF - GROUND FAULT
WP - WEATHERPROOF

MULTI-RECEPTACLE ASSEMBLY WITH RECEPTACLES AS INDICATED.

J — JUNCTION BOX

FLOOR MOUNTED DUPLEX RECEPTACLE.

FLOOR MOUNTED BOX POWER AND TELCOM RECEPTACLES.

ALL DEVICES/PLATES TO BE IN OWNERS CHOICE OF COLORS.

COMMUNICATIONS

WALL MOUNTED DATA OUTLET. 18" AFF UNLESS OTHERWISE NOTED.

X — FLOOR MOUNTED DATA OUTLET.
'X' DESIGNATES:
F - FLUSH
S - SURFACE

WALL MOUNTED TELEPHONE OUTLET. 18" AFF UNLESS OTHERWISE NOTED.

X — FLOOR MOUNTED TELEPHONE OUTLET.
'X' DESIGNATES:
F - FLUSH
S - SURFACE

WALL MOUNTED TELEPHONE/DATA COMBINATION OUTLET. 18" AFF UNLESS OTHERWISE NOTED.

X — FLOOR MOUNTED TELEPHONE/DATA COMBINATION OUTLET.
'X' DESIGNATES:
F - FLUSH
S - SURFACE

B — BLUE INDICATOR LIGHT FOR EMERGENCY CALL BOX.

C — EMERGENCY CALL BOX.

L — LANE USE SIGNAL. 18" X 18" LED TYPE WITH GREEN " " AND RED "X".

X — CCTV CAMERA. MOUNTING AS INDICATED ON PLANS.
'X' DESIGNATES:
F - FIXED TYPE
PTZ - PAN TILT ZOOM

ETHERNET ADAPTER

CELLULAR MODEM

HVAC

T — THERMOSTAT

R — AMBIENT TEMPERATURE TRANSMITTER

UNIT HEATER

ELEMENTARY WIRING SCHEMATICS

KEY SWITCH

RTM — NON RESETTABLE RUN TIME METER.

BATTERY - VOLUME AND AMP HOURS AS INDICATED.

AC / DC+ / DC- / AC — FULL WAVE RECTIFIER.

HORN ELEMENT.

R — EXTERNALLY MOUNTED ALARM LIGHT.

FIRE ALARM

EVAC — VOICE EVACUATION PANEL

FAA — FIRE ALARM ANNUNCIATOR PANEL

FACP — FIRE ALARM CONTROL PANEL

F — FIRE ALARM MANUAL PULL STATION

S — FIRE ALARM SMOKE DETECTOR

H — HEAT DETECTOR

SD — FIRE ALARM DUCT SMOKE DETECTOR

F — FIRE ALARM STROBE LIGHT WALL MOUNTED

F — FIRE ALARM SPEAKER/STROBE LIGHT COMBINATION WALL MOUNTED

H — HORN UNIT ONLY

ST / FA — FIRE ALARM STROBE CEILING MOUNTED

R — FIRE ALARM RELAY

FE — FIRE EXTINGUISHER.

FS — FIRE ALARM FLOW SWITCH

PS — LOW PRESSURE SWITCH

TS — FIRE ALARM TAMPER SWITCH

TB — FIRE ALARM TELEPHONE BASE

SP / WP — MASS NOTIFICATION SPEAKER/STROBE LIGHT COMBINATION (WEATHER PROOF) WALL MOUNTED

SPT — MASS NOTIFICATION SPEAKER/STROBE COMBINATION CEILING MOUNTED

SP — MASS NOTIFICATION SPEAKER CEILING MOUNTED

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DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100082-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:
ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES

SHEET NUMBER:
E0.02

SPRINGFIELD CITY COMPLEX
502100082-005
8/6/2024 8:44:00 AM

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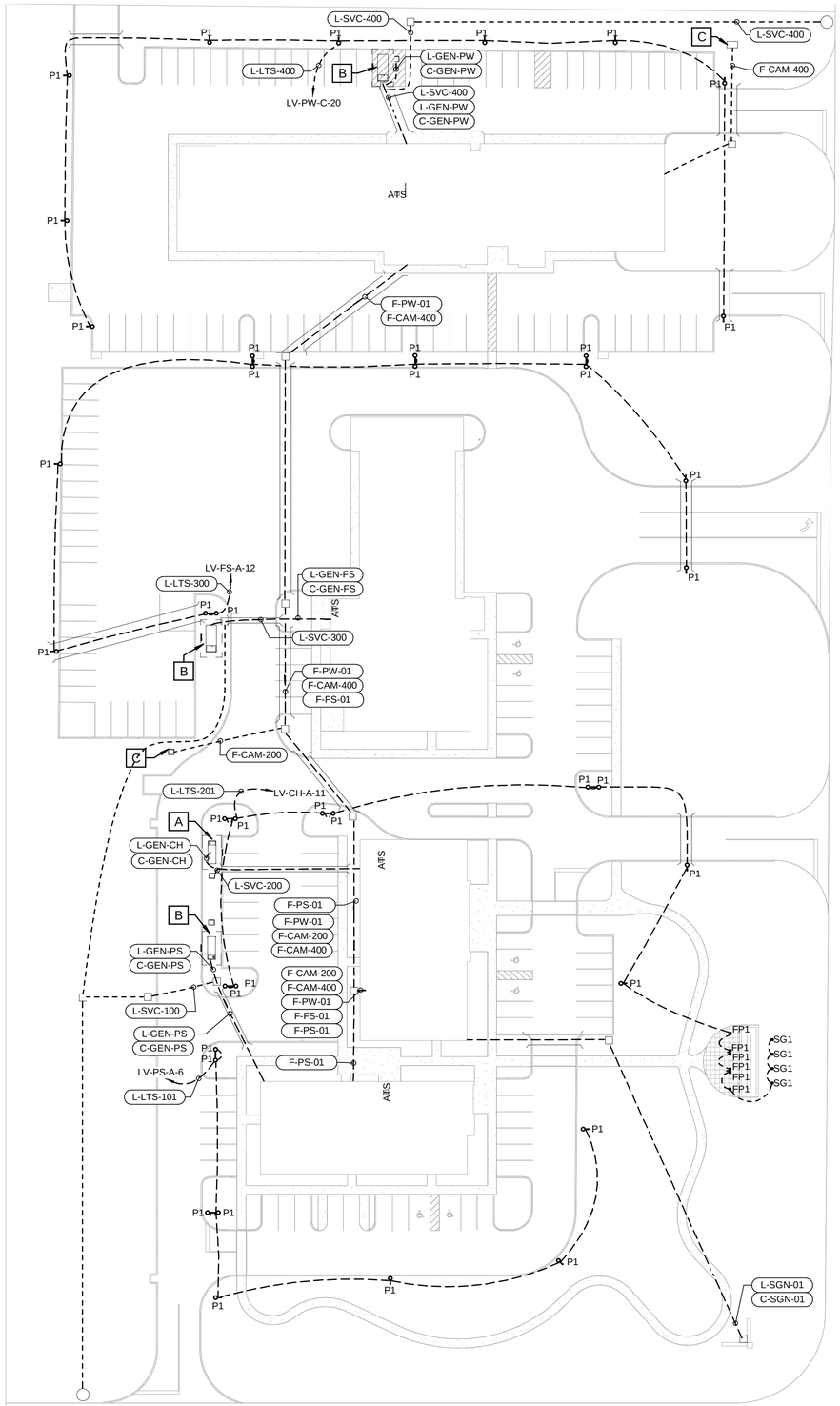

1 ELECTRICAL SITE PLAN
1" = 40'-0"

GENERAL NOTES:

1. ELECTRICAL SERVICES SHOWN ARE REFERENCE. COORDINATE INSTALLATION WITH FPL.
2. CONDUIT ARE SHOWN TO NEAREST EDGE OF BUILDING SERVED. COORDINATE THE FINAL LOCATION TO INTERIOR ELECTRICAL AND/OR IT ROOM AS REQUIRED.
3. PROVIDE FIVE SPARE 1" CONDUIT FROM THE EACH ELECTRICAL AND IT ROOM, STUBBED, CAPPED, AND MARKED 5 FT FROM THE EXTERIOR OF EACH BUILDING.
4. COORDINATE WITH FPL FOR ALL REQUIRED INSTALLATION DETAILS FOR SERVICE INCLUDING TRANSFORMER FOUNDATIONS.

- KEY NOTES:

A. GENERATOR SHALL BE CONTRACTOR FURNINSHED AND CONTRACTOR INSTALLED.

B. GENERATOR SHALL BE OWNER FURNINSHED AND CONTRACTOR INSTALLED.

C. POWER POLE FOR CAMERA SHALL BE INSTALLED.

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SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
E1.10

ISSUED FOR BIDS-AUGUST 2024

LIGHTING DESIGN CRITERIA								
APPLICATION	HORIZONTAL TARGETS			VERTICAL TARGETS			UNIFORMITY TARGETS	
	E (fc)	TYPE	ELEV.	E (fc)	TYPE	ELEV.	MAX:MIN	AVG:MIN
APPARATUS BAYS	30	AVG	FLOOR	10	AVG	5'-0" AFF	N/A	3:1
BREAKROOM	10	AVG	2'-6" AFF	3	AVG	4'-0" AFF	N/A	3:1
BUILDING MAINTENANCE SHOP	50	AVG	3'-0" AFF	30	AVG	4'-0" AFF	N/A	3:1
CASHIER COUNTER	20	AVG	2'-6" AFF	7.5	AVG	5'-0" AFF	N/A	3:1
CONFERENCE	30	AVG	2'-6" AFF	40	AVG	3'-5" AFF	N/A	1.5:1
CORRIDOR	5	AVG	FLOOR	3	AVG	5'-0" AFF	N/A	2:1
CSI	50	AVG	3'-6" AFF	40	AVG	5'-0" AFF	N/A	3:1
DORMITORY	4	AVG	FLOOR	1.5	AVG	5'-0" AFF	N/A	3:1
ELECTRICAL	10	AVG	3'-0" AFF	10	AVG	5'-0" AFF	N/A	3:1
EQUIPMENT MAINTENANCE	20	AVG	3'-0" AFF	15	AVG	5'-0" AFF	N/A	3:1
EVIDENCE STORAGE	10	AVG	FLOOR	3	AVG	4'-0" AFF	N/A	3:1
EXERCISE ROOM	40	AVG	FLOOR	15	AVG	5'-0" AFF	N/A	3:1
GARAGE	50	AVG	FLOOR	30	AVG	5'-0" AFF	N/A	3:1
KITCHEN	50	MIN	4' AFF	20	AVG	4'-0" AFF	N/A	2:1
POLICE INTERVIEW	40	AVG	2'-6" AFF	15	AVG	4'-0" AFF	N/A	3:1
POLICE PATROL	20	AVG	FLOOR	10	AVG	5'-0" AFF	N/A	3:1
JANITOR	10	AVG	FLOOR	3	AVG	4'-0" AFF	N/A	3:1
LAUNDRY	30	AVG	FLOOR	5	AVG	3'-0" AFF	N/A	3:1
LOCKERS	5	AVG	FLOOR	5	AVG	FACE	N/A	2:1
MAP ROOM	20	AVG	FLOOR	20	AVG	5'-0" AFF	N/A	2:1
MECHANICAL	20	AVG	3'-0" AFF	15	AVG	5'-0" AFF	N/A	3:1
OFFICE	30	AVG	2'-6" AFF	7.5	AVG	4'-0" AFF	N/A	2:1
RECEPTION/LOBBY	15	AVG	3'-6" AFF	5	AVG	5'-0" AFF	N/A	4:1
RESTROOM	20	MIN	2'-6" AFF	10	AVG	2'-6" AFF	N/A	3:1
SECURED WAREHOUSE STORAGE	10	AVG	FLOOR	3	AVG	4'-0" AFF	N/A	3:1
SHOWER	10	AVG	FLOOR	5	AVG	3'-5" AFF	N/A	2:1
STORAGE	10	AVG	FLOOR	3	AVG	4'-0" AFF	N/A	3:1
TRAINING	40	AVG	2'-6"	15	AVG	4'-0" AFF	N/A	2:1
WAREHOUSE	30	AVG	FLOOR	15	AVG	N/A	N/A	3:1
WEAPONS AMMO STORAGE	30	AVG	FLOOR	10	AVG	5'-0" AFF	N/A	3:1
OUTDOOR SITE LIGHTING	0.5	MIN	FLOOR	N/A	MIN	N/A	15:1	N/A
SIGNAGE	N/A	N/A	N/A	1	AVG	N/A	10:1	3:1
FLAG POLE	N/A	N/A	N/A	2	AVG	N/A	10:1	3:1
NOTES:								
1. DESIGN CRITERIA ARE BASED ON THE IES LIGHTING HANDBOOK, 10TH EDITION.								

LIGHTING FIXTURE SCHEDULE									
MARK	MANUFACTURER	CATALOG NUMBER.	LAMPS-NUMBER/ TYPE	FIXTURE WATTS	LUMEN OUTPUT	TOTAL LLF	CCT	MOUNTING	REMARKS
G1	LITHONIA	2BLT4 40L ADP GZ10 LP835 BAA	LED	31	4001	0.8		GRID	INTERIOR
G1 EM	LITHONIA	2BLT4 40L ADP GZ10 LP835 EL14L BAA	LED	21	2600	0.8		GRID	INTERIOR
G2	LITHONIA	2BLT4 40L ADP GZ10 LP835 BAA	LED	38	4961	0.8		GRID	INTERIOR
G2 EM	LITHONIA	2BLT4 40L ADP GZ10 LP835 EL14L BAA	LED	28	3571	0.8		GRID	INTERIOR
S1	FLUXWERX	VU1-R-A-B-35-A-XX-G-F2-M-03-G	LED	23	2790	0.8		SUSPENDED AT 7'AFF	INTERIOR
C1	LITHONIA	LDN4 35_10 LO4AR LD MVOLT GZ10 TRW BAA	LED	11	923	0.8		CAN IN GRID	INTERIOR
C1 EM	LITHONIA	LDN4 35_10 L04AR LD MVOLT GZ10 TRW EL BAA	LED	11	923	0.8		CAN IN GRID	INTERIOR
S2	LITHONIA	CLX LED L 48 4000LM SEF RDL _ MVOLT GZ10 35K 80CRI WH	LED	31	4026	0.8		SUSPENDED	INTERIOR
S2 EM	LITHONIA	CLX LED L 48 4000LM SEF RDL _ MVOLT GZ10 35K 80CRI E10WLCP WH	LED	31	4026	0.8		SUSPENDED	INTERIOR
S3	ALW	LP3.5RT DRY S__ MED 80 3500 0/10V/S EXT N N N N SW UNV	LED	11	1207	0.8		SUSPENDED	INTERIOR
S3 EM	ALW	LP3.5RT DRY S__ MED 80 3500 0/10V/S EXT N N N N SW UNV EMB	LED	4	470.73	0.8		SUSPENDED	INTERIOR
S4	LITHONIA	MSL 10000LM L/LV MVOLT GZ10 35K 90CRI BAA WH	LED	86	9771	0.8		SUSPENDED	INTERIOR
S4 EM	LITHONIA	MSL 10000LM L/LV MVOLT GZ10 35K 90CRI E10WLCP BAA WH	LED	79	8990	0.8		SUSPENDED	INTERIOR
S5	KELVIX	502 I TBD DV 35K WH CP SV ULV	LED	TBD	700/FT	0.8		UNDER CABINET	LENGTH OF CABINETS
C3	BROWNLEE LIGHTING	2680-16 BL-B24-BU-CC1-BLC-35K BAC (POLICE DEPT.)	LED	33	2341	0.8		CAN IN GRID	INTERIOR
C3	BROWNLEE LIGHTING	2680-16 BL-B24-RD-CC1-BLC-35K BAC (FIRESTATION)	LED	33	2341	0.8		CAN IN GRID	INTERIOR
C2	LITHONIA	EVO4S 35/15 DFFAMF SOL MVOLT EZ10	LED	14	1079	0.8		CAN IN GRID	INTERIOR
SG1	LITHONIA	DSXF1 LED PE 40K HMF MVOLT YKC62 DDBXD	LED	11	836	0.8		GROUND	EXTERIOR SIGN
WP1	LITHONIA	WDGE2 LED P3 40K 80CRI VF MVOLT DDBXD	LED	23	3016	0.8		WALL	EXTERIOR FIRE DOOR
P1	LITHONIA	DSX1 LED P2 40K TFTM MVOLT RPA DDBXD	LED	70	8257	0.8		25' POLE	EXTERIOR
WP2	LITHONIA	DSXW1 LED 20C 530 40K T3M MVOLT DDBXD	LED	35	3993	0.8		WALL	EXTERIOR OVER DOORS
WP3	LITHONIA	KACM LED 20C 530 40K R5 MVOLT DDBXD	LED	35	4380	0.8		CEILING	POLICE STATION EXTERIOR
C4	BROWNLEE LIGHTING	2680 16 BL B24 BU CC1 BLK 35 BAC 35K	LED	32	2344	0.8		CEILING	PENDANT
FP1	VISTA	1188 DZ NS 40 B MV AX ND B34 TO15	LED	30	2000	0.8		GROUND	FLAG POLE
CO1	LUMINIS	OC750 L1L15 R30	LED	14	1436	0.8		CAN	EXTERIOR
EX	EMERGILITE	WLXN2NRMUA -A	LED	2.3	N/A	N/A		CEILING	INTERIOR EXIT SIGN
NOTES									
1.	THE FIXTURES LISTED ABOVE ARE THE BASIS OF DESIGN. TO SUPPLY EQUIVALENT FIXTURES PROVIDE THE FOLLOWING WITH DURING THE OPEN QUESTIN PERIOD DURING BIDDING: 1) COMPLETE PRODUCT SPECIFICATION SHEETS MARKED WITH CATALOG NUMBER AND FIXTURE TYPE, 2) CALCULATION REPORTS SHOWING THE DESIGN CRITERIA HAS BEEN MET, 3) A SUMMARY OF ALL ALTERATIONS DEVIATING FROM THE BASIS OF DESIGN, 4) ELECTRONIC COPES OF THE IES FILES USED. 5) WRITTEN VERIFICATION THAT THE SUBMITTED FIXTURES MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NOTICE OF APPROVED EQUIVALENTS WILL BE PROVIDED IN WRITING VIA ADDENDUM. DEVICES NOT LISTED WILL NOT BE ACCEPTED. EQUIVALENT FIXTURES SHALL BE VERIFIED BY THE ENGINEER FOR ADEQUACY DURING THE BID PHASE. THE CONTRACTOR SHALL STILL BEAR THE RESPONSIBILITY OF PROVIDING AND INSTALLING FIXTURES THAT MEET THE DESIGN CRITERIA AND THE QUALITY OF THE BASIS OF DESIGN PRODUCTS, AT NO ADDITIONAL COST.								
2.	FIXTURE WATTAGE IS BASED ON THE TOTAL INPUT POWER AS LISTED BY THE MANUFACTURERS DATA FOR THE LAMP(S) AND BALLAST (DRIVERS) SELECTED.								
3.	COORDINATE MOUNTING REQUIREMENTS AS SHOWN ON THE PLAN.								
4.	FIXTURES ON PLANS OR LAYOUTS WITH "-EM" SUFFIX INDICATE REQUIREMENT FOR INCLUSION OF EMERGENCY BATTERY PACK WITH HIGHEST LUMEN OUTPUT, UNLESS OTHERWISE NOTED.								

LIGHTING SENSOR SCHEDULE					
MARK	MANUFACTURER	CATALOG NUMBER.	FUNCTIONS	MOUNTING	REMARKS
D	ACUITY	NCM PDT 10 RJB ADCX	DUAL TECHNOLOGY PIR AND ULTRASONIC WITH PHOTODETECTION AND DIMMING DAYLIGHT SENSOR	CEILING	
LC	ACUITY	NPP16 DS EFP	LIGHTING CONTACTOR RELAY PACK	CONCEALED	
$O	ACUITY	NWSX PDT LV DX WH	DUAL TECHNOLOGY PIR AND ULTRASONIC WITH PHOTODETECTION AND DIMMING WALL SWITCH	WALL 4' AFF	
O	ACUITY	NCM PDT 10 RJB ADCX	DUAL TECHNOLOGY PIR AND ULTRASONIC WITH PHOTODETECTION AND DIMMING OCCUPANCY SENSOR	CEILING	
NOTES:					
1.	THE DEVICES LISTED ABOVE ARE THE BASIS OF DESIGN. EQUIVALENT DEVICES MAY BE SUPPLIED. TO SUPPLY EQUIVALENT FIXTURES PROVIDE THE FOLLOWING WITH DURING THE OPEN QUESTION PERIOD DURING BIDDING: 1) COMPLETE PRODUCT SPECIFICATION SHEETS MARKED WITH CATALOG NUMBER AND DEVICE TYPES, 2) A SUMMARY OF ALL ALTERATIONS DEVIATING FROM THE BASIS OF DESIGN. SHOULD CHANGES IN THE CONTROL WIRING BE REQUIRED, THE VENDOR SHALL COORDINATE WITH THE CONTRACTOR TO PROVIDE THE REQUIRED WIRING. THE CONTRACTOR SHALL STILL BEAR THE RESPONSIBILITY OF PROVIDING AND INSTALLING DEVICES THAT MEET THE DESIGN CRITERIA, AT NO ADDITIONAL COST. EQUIVALENT FIXTURES SHALL BE VERIFIED BY THE ENGINEER FOR ADEQUACY DURING THE BID PHASE. NOTICE OF APPROVED EQUIVALENTS WILL BE PROVIDED IN WRITING VIA ADDENDUM. DEVICES NOT LISTED WILL NOT BE ACCEPTED.			
2.	PROVIDE A SENSOR LAYOUT STUDY WITH SUBMITTAL DRAWINGS. INCLUDE COMPLETE COVERAGE FOR EACH SPACE AND ALL REQUIRED DEVICES.				
3.	COORDINATE SUPPLY OF ALL SWITCHES.				

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

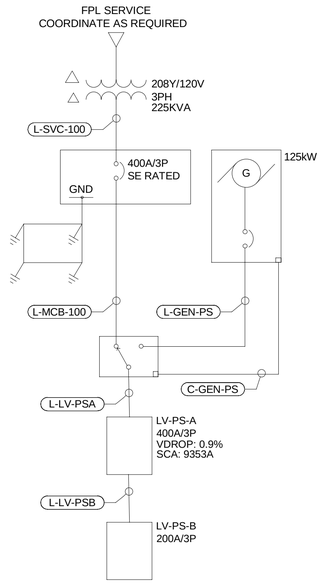
THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:
LIGHTING SCHEDULES

SHEET NUMBER:
E1.12

FEEDER MARK	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	TO	NOTES
C-GEN-PS	1	1"	12#14, 1#14G	GEN-PS	ATS-PS	
L-AHU-100	1	1"	3#8, 1#8N, 1#8G	LV-PS-B	AIR HANDLER UNIT	
L-AHU-101	1	1-1/2"	3#4, 1#4N, 1#4G	LV-PS-B	AIR HANDLER UNIT	
L-BS-100	1	1"	2#12, 1#12G	LV-PS-B	BRANCH SELECTORS	
L-DOAS-106	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	DOAS	
L-EF-105	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	EXHAUST FAN	
L-EF-108	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	EXHAUST FAN	
L-EF-109	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	EXHAUST FAN	
L-EF-111	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	EXHAUST FAN	
L-EF-113	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	EXHAUST FAN	
L-EF-114	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	EXHAUST FAN	
L-EF-126	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	EXHAUST FAN	
L-EX-PS	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	EXIT LTS	
L-EF-130	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	EXHAUST FAN	
L-GEN-PS	2	3"	3#3/0, 1#3/0N, 1#3/0G	GEN-PS	ATS-PS	
L-HVAC-107	1	1"	2#12, 1#12G	LV-PS-A	HVAC RM 101,103,104,107,109	
L-HVAC-110	1	1"	2#12, 1#12G	LV-PS-A	HVAC RM 103,110,112,115,116,117	
L-HVAC-124	1	1"	2#12, 1#12G	LV-PS-B	HVAC RM 118,119,120,121,122,124	
L-HVAC-127	1	1"	2#12, 1#12G	LV-PS-B	HVAC RM 123,126,127,128,129	
L-IT-101	1	1"	1#6, 1#6N, 1#6G	LV-PS-A	IT RM 107A (IT SERVER RACK)	
L-IT-102	1	1"	1#6, 1#6N, 1#6G	LV-PS-A	IT RM 107A (IT SERVER RACK)	
L-LTS-100	1	1"	1#8, 1#8N, 1#8G	LV-PS-A	SITE LIGHTING	
L-LTS-101	1	1"	1#8, 1#8N, 1#8G	LV-PS-A	SITE LIGHTING	
L-LTS-102	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	LC-102,129,130,	
L-LTS-103	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	LC-102,103	
L-LTS-104	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	LTS, 100, 101, 104, 105, 106, 107, 108, 109	
L-LTS-115	1	1"	1#12, 1#12N, 1#12G	115	LC-115	
L-LTS-123	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	LC-123	
L-LV-PS-A	2	3"	3#3/0, 1#3/0N, 1#3/0G	ATS-PS	LV-PS-A	
L-LV-PS-B	1	3"	3#3/0, 1#3/0N, 1#3/0G	LV-PS-A	LV-PS-B	
L-MCB-100	2	3"	3#3/0, 1#3/0N, 1#3/0G	MCB-100	ATS-PS	
L-FACP-100	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	FACP	
L-RCP-101	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RCP-101	
L-REC-100	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 100	
L-REC-101-A	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 101	
L-REC-101-B	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 101	
L-REC-102	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 102	

FEEDER MARK	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	TO	NOTES
L-REC-103-A	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 103	
L-REC-103-B	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 103,102	
L-REC-104	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 104	
L-REC-105	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 104,105	
L-REC-107-A	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	IT RM 107A	
L-REC-108	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 108	
L-REC-109-A	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 109	
L-REC-109-B	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 109	
L-REC-109-C	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 109	
L-REC-109-D	1	1"	2#8, 1#8N, 1#8G	LV-PS-A	REC, OVEN 109	
L-REC-109-E	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	REC, FRIDGE 109	
L-REC-111	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 111,113,114	
L-REC-112	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 110,112	
L-REC-115-A	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 115	
L-REC-115-B	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	RECEPTACLE RM 115	
L-REC-116-A	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 116	
L-REC-116-B	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 116	
L-REC-117	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 117	
L-REC-118	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 118	
L-REC-119	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 119	
L-REC-120	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 120,121	
L-REC-123-A	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 123	
L-REC-123-B	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 122	
L-REC-125	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 125	
L-REC-126-A	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 124,126	
L-REC-126-B	1	1"	1#12, 1#12N, 1#12G	LV-PS-B		
L-REC-127	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 126,127	
L-REC-129	1	1"	1#12, 1#12N, 1#12G	LV-PS-B	RECEPTACLE RM 128,129,130	
L-SVC-100	2	2-1/2"	3#3/0, 1#3/0N	TX-PS	MCB-100	
L-WH-PS	1	1-1/2"	1#2, 1#2N, 1#2G	LV-PS-A	WATER HEATER RM 106	
L-SPR-100	5	1"	PULLSTRING	LV-PS-A	5FT OUTSIDE OF BUILDING	
C-SPR-100	5	1"	PULLSTRING	POLICE IT ROOM	5FT OUTSIDE OF BUILDING	



POLICE STATION ONE-LINE DIAGRAM

NOT TO SCALE

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MOTT MACDONALD

Architects AA - C000035
Engineers EB - 0000795
Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV.	DESCRIPTION

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

POLICE STATION ONE-LINE DIAGRAM

SHEET NUMBER:

E1.15

PANEL: LV-PS-A

VOLTS L-L:	208 V	**MAIN OVERCURRENT:**	400 A	**BUS MATERIAL:**		**LOCATION:** **MOUNTING:**	Surface
VOLTS L-N:	120 V	**MAIN BUS RATING:**	400 A	**NUETRAL SIZE:**		**ENCLOSURE TYPE:**	Type 1
PHASE:	3	**MINIMUM AIC:**				**GROUND:**	
WIRE:	4						

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
1	20 A	1	EXIT LIGHTS	200	720					REC, 104	1	20 A	2
3	20 A	1	OUTSIDE BUILDING LIGHTS			311	900			REC, 105	1	20 A	4
5	20 A	1	REC, 100					540	800	SITE LIGHTING	1	20 A	6
7	20 A	1	REC, 101	900	1080					REC, 103	1	20 A	8
9	60 A	1	IT SERVER RACK REC			3000	3000			IT SERVER RACK REC	1	60 A	10
11	20 A	1	REC, 108					900	1440	REC, 103	1	20 A	12
13	20 A	1	LTS...	1237	180					EXIT SIGNS	1	20 A	14
15	20 A	1	REC 101 PRINTER			180	540			REC, 115	1	20 A	16
17	20 A	2	HVAC-102					425	125	HVAC-110	2	20 A	18
19				425	125								20
21	20 A	1	REC, 109			900	16347						22
23	50 A	3	WATER HEATER					4000	16413	LV-PS-B	3	200 A	24
25				4000	17042								26
27						4000	1000			FRIDGE	1	20 A	28
29	20 A	1	REC, 109 FRIDGE					1200	540	REC, 115	1	20 A	30
31	20 A	1	REC, 111, 113, 114	540	720					REC, 109	1	20 A	32
33	20 A	1	FACP-PS			500	11500			OVEN	2	50 A	34
35	20 A	1	REC, 110, 112					900	0				36
37	20 A	2	BRANCH SELECTORS	100									38
39						100							40
41													42
			TOTAL CONNECTED LOAD (VA) PER PHASE:	27182 VA		42225 VA		27244 VA					
			TOTAL CONNECTED LOAD (AMPS) PER PHASE:	227 A		352 A		227 A					

TOTAL CONNECTED LOAD (VA):	96646 VA
TOTAL CONNECTED LOAD (AMPS):	268 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

PANEL: LV-PS-B

VOLTS L-L:	208 V	**MAIN OVERCURRENT:**	200 A	**BUS MATERIAL:**		**LOCATION:** **MOUNTING:**	Surface
VOLTS L-N:	120 V	**MAIN BUS RATING:**	200 A	**NUETRAL SIZE:**		**ENCLOSURE TYPE:**	Type 1
PHASE:	3	**MINIMUM AIC:**				**GROUND:**	
WIRE:	4						

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
1	20 A	1	EF-105	30									2
3	20 A	1	EF-108			20	100			EF-109	1	20 A	4
5	20 A	1	EF-130					40	50	EF-111	1	20 A	6
7	20 A	1	REC, 126	180	974					LTS 100,101,104,105,106,107A-B,108,109	1	20 A	8
9	20 A	1	REC, FREEZER 126			180	1440			REC, 119	1	20 A	10
11	20 A	1	REC, 125					540	1080	REC, 120, 121	1	20 A	12
13	20 A	1	REC, 122, 123	1080	2800					DOAS-106	1	30 A	14
15	20 A	1	REC, 116			1620	1800			REC, 116	1	20 A	16
17	20 A	1	LTS...					1365	1800	REC, 128, 129	1	20 A	18
19					50					EF-113	1	20 A	20
21	20 A	2	HVAC-127			150							22
23								150	175	HVAC-124	2	20 A	24
25	20 A	1	REC, 102	720	175								26
27	20 A	1	EF-114			50	720			REC, 118	1	20 A	28
29									850	EF-126	1	20 A	30
31	20 A	1	REC, 117	900	50					RECIRCULATION PUMP	1	20 A	32
33	20 A	1	REC, 124, 126			900							34
35	20 A	1	REC, 123					720	900	REC, 127	1	20 A	36
37	40 A	3	AHU-100	3167	6267					AHU-101	3	80 A	38
39						3167	6267						40
41								3167	6267				42
			TOTAL CONNECTED LOAD (VA) PER PHASE:	16347 VA		16413 VA		17042 VA					
			TOTAL CONNECTED LOAD (AMPS) PER PHASE:	136 A		137 A		142 A					

TOTAL CONNECTED LOAD (VA):	49800 VA
TOTAL CONNECTED LOAD (AMPS):	138 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

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Engineers EB - 0000595
Surveyors LB - 0000183

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100962-005

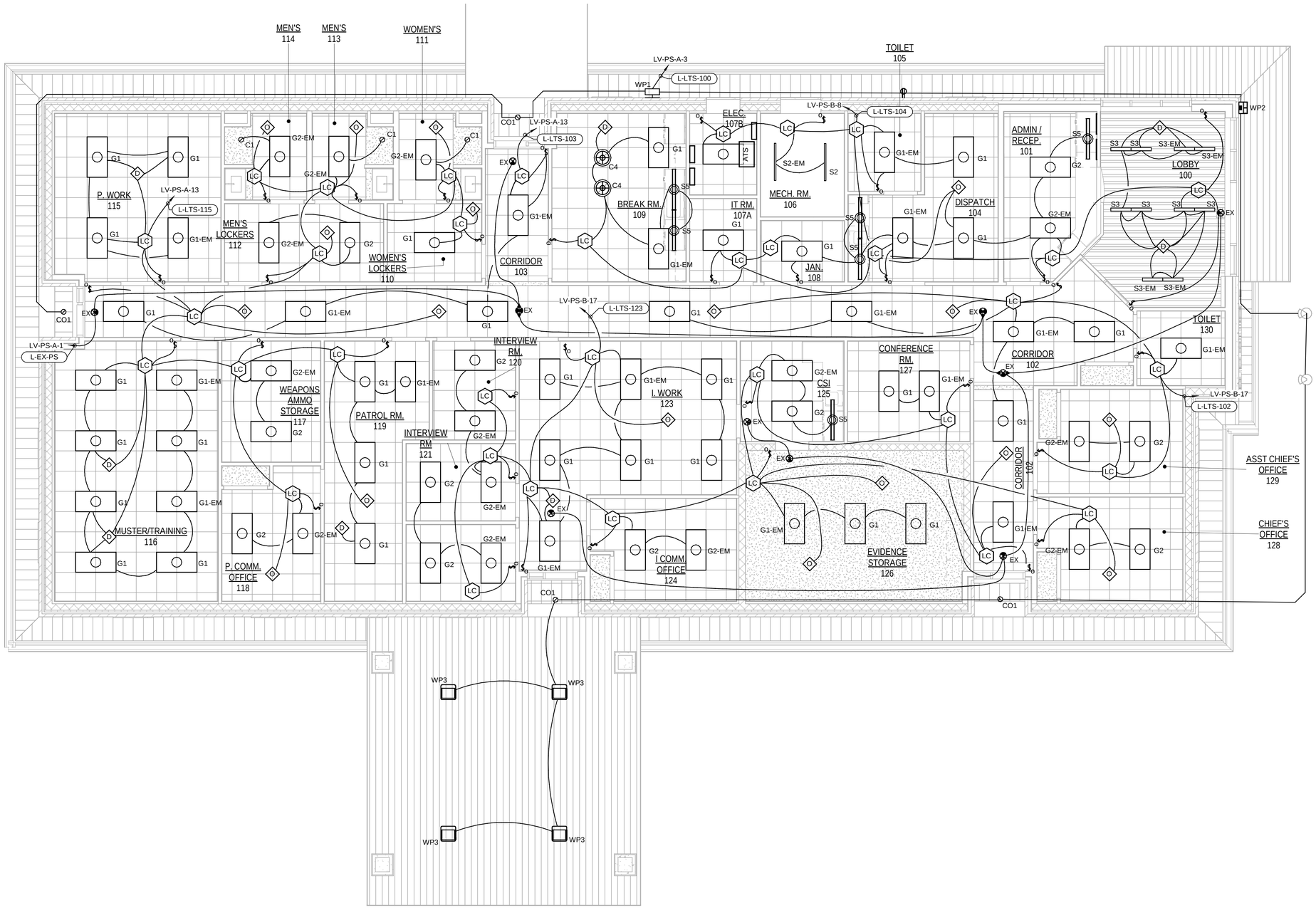
THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E1.17

8/6/2024 8:44:02 AM 502100962-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024



1 POLICE STATION LIGHTING PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

GENERAL NOTES:

1. THE SENSORS AND SWITCHES SHOWN ON THESE PLANS ARE A REPRESENTATIVE DESIGN BASED ON THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION TO ILLUSTRATE THE REQUIRED LIGHTING CONTROLS OF EACH SPACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SELECTED LIGHTING EQUIPMENT MANUFACTURER'S REPRESENTATIVE TO COORDINATE REQUIRED VARIATIONS THAT MAY BE REQUIRED FOR THE SELECTED DEVICES TO FUNCTION AS REQUIRED.

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Architects AA - C000035
Engineers EB - 0000695
Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

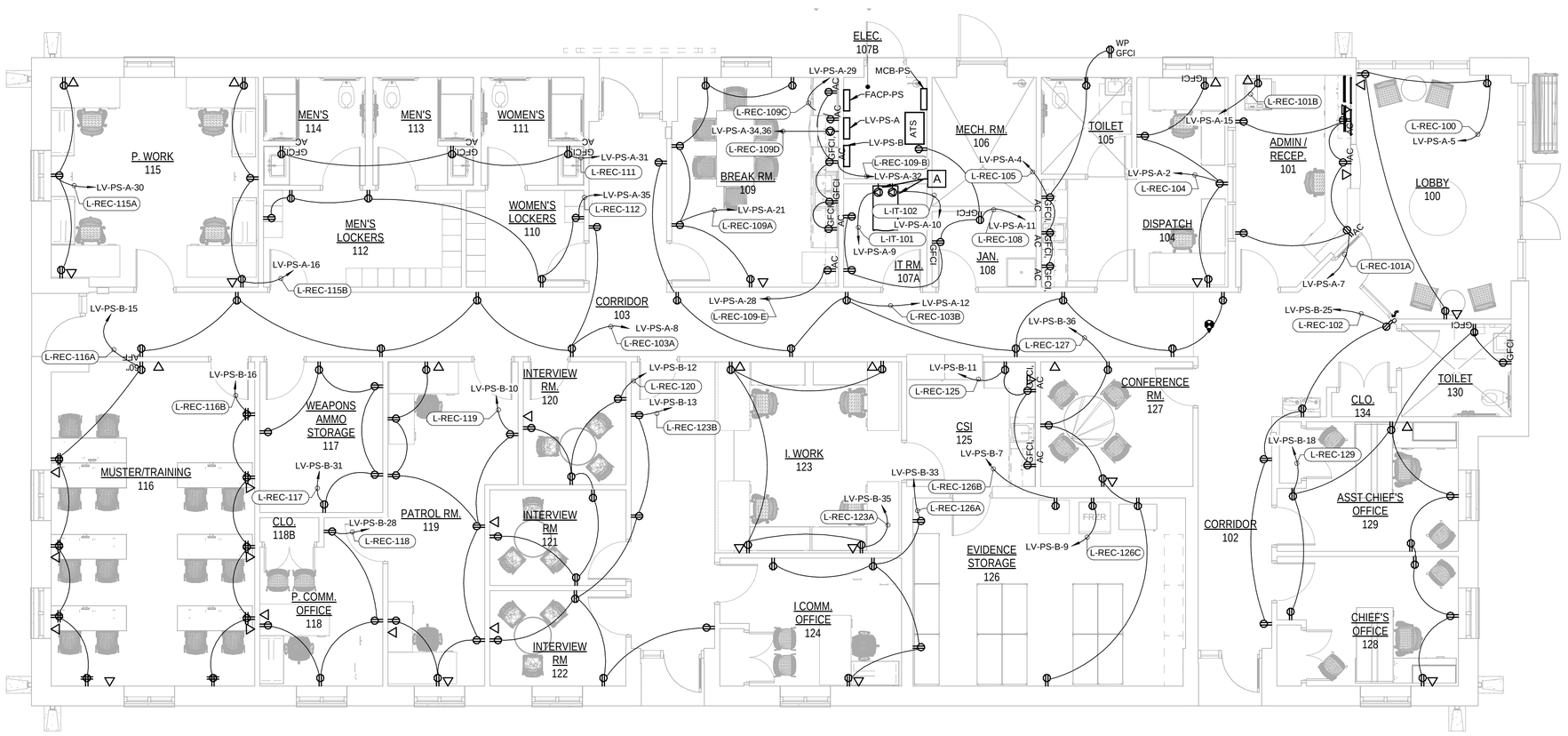
SHEET TITLE:

POLICE STATION LIGHTING PLAN

SHEET NUMBER:

E1.20

ISSUED FOR BIDS-AUGUST 2024



1 POLICE STATION POWER PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

GENERAL NOTES:
1. COORDINATE RECEPTACLE AND COMMUNICATION OUTLETS LOCATIONS WITH FINAL LOCATION OF DISPLAY. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.

- KEY NOTES:

A. INSTALL TWIST AND LOCK NEMA L5-30R PLUGS AT IT SERVER RACK.

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DATE: 5-18-2022
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PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100082-005

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SHEET TITLE:
POLICE STATION POWER PLAN

SHEET NUMBER:
E1.30

ISSUED FOR BIDS-AUGUST 2024

1 POLICE STATION FIRE ALARM PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DETAILED FIRE ALARM DESIGN REQUIRED BY FLORIDA LAW.
2. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FIRE ALARM INSTALLATION DRAWINGS BY A FLORIDA P.E.(THE P.E. SHALL ACT AS A DELEGATE ENGINEER FOR THE DESIGN OF THE FIRE ALARM SYSTEM.)
3. THE DEVICES SHOWN ON THE PLANS REPRESENT THE MINIMUM NUMBER OF REQUIRED DEVICES.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY OPERATIONAL FIRE PROTECTION SYSTEM
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE FBC, NFPA 13, NFPA 72, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
6. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND MAKING PLAN REVISIONS AS DIRECTED AND REQUIRED.
7. CONTRACTOR TO PROVIDE 3/4"C FROM ALL FIRE ALARM DEVICES TO FIRE ALARM CONTROL PANEL WITH CONDUCTOR AS REQUIRED.
8. THE DELEGATE ENGINEER OF RECORD FOR THE FIRE ALARM SYSTEM SHALL COMPLY WITH FLORIDA STATUTE 61G15-33.006.

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SPRINGFIELD CITY COMPLEX

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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: 5-18-2022
DESIGNED BY: SJR
DRAWN BY: HDE
CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

POLICE STATION FIRE ALARM PLAN

SHEET NUMBER:

E1.40

8/6/2024 8:44:11 AM 502100062-005 SPRINGFIELD CITY COMPLEX

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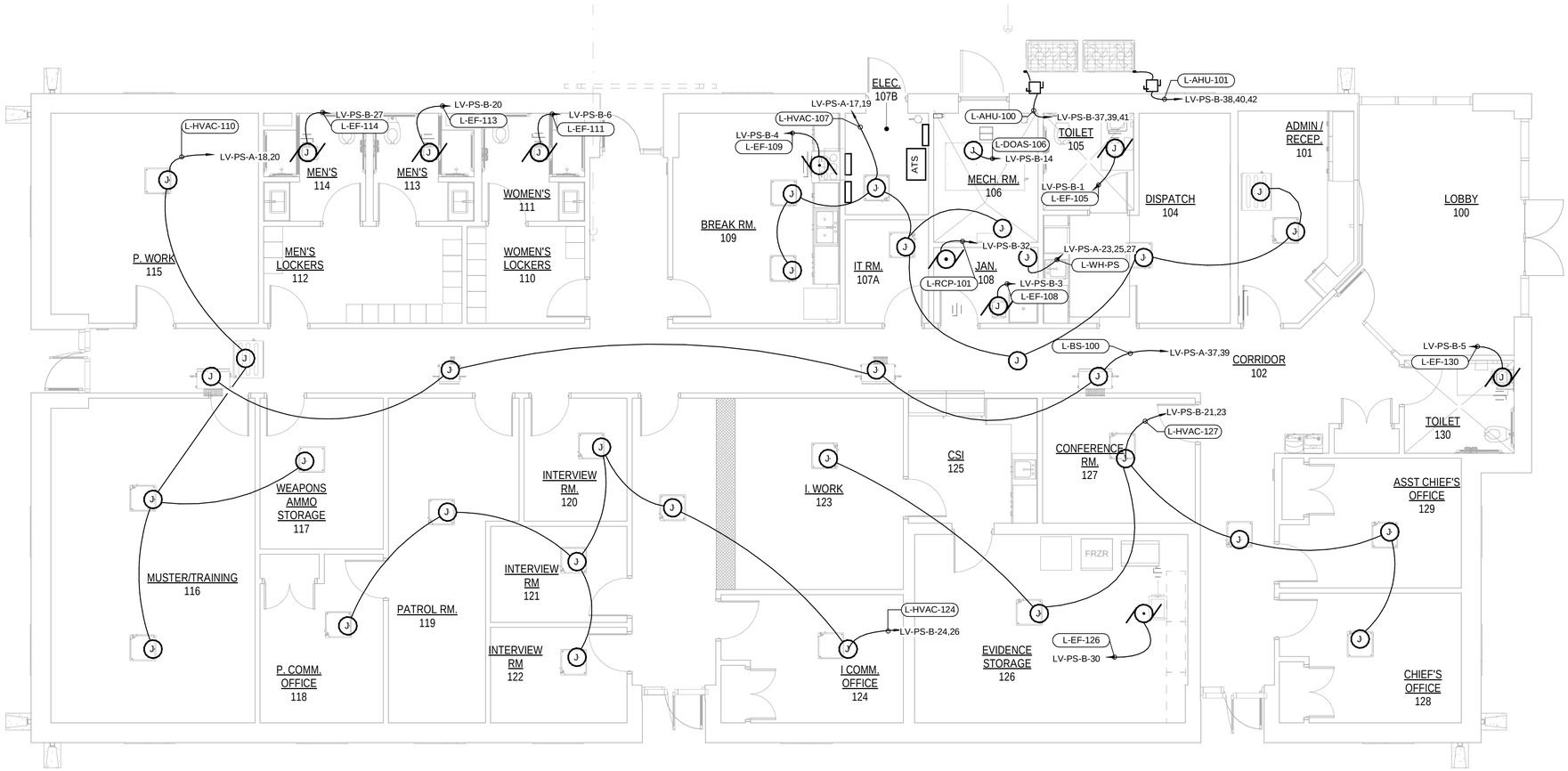

1 POLICE STATION HVAC ELECTRICAL PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

GENERAL NOTES:

1. ALL CONTROL WIRING FOR MENCHANICAL SHALL BE GOVERNED BY DIVISION 26 REQUIREMENTS. ALL CONTROL WIRING SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS. COORDINATE WIRING REQUIREMENTS WITH THE MANUFACTURER OF THE EQYUIPMENT AND PROVIDE CONTROL WIRING REQUIRED FOR SPECIFIED OPERATION OF THE EQUIPMENT.

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SPRINGFIELD, FLORIDA 32401

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PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

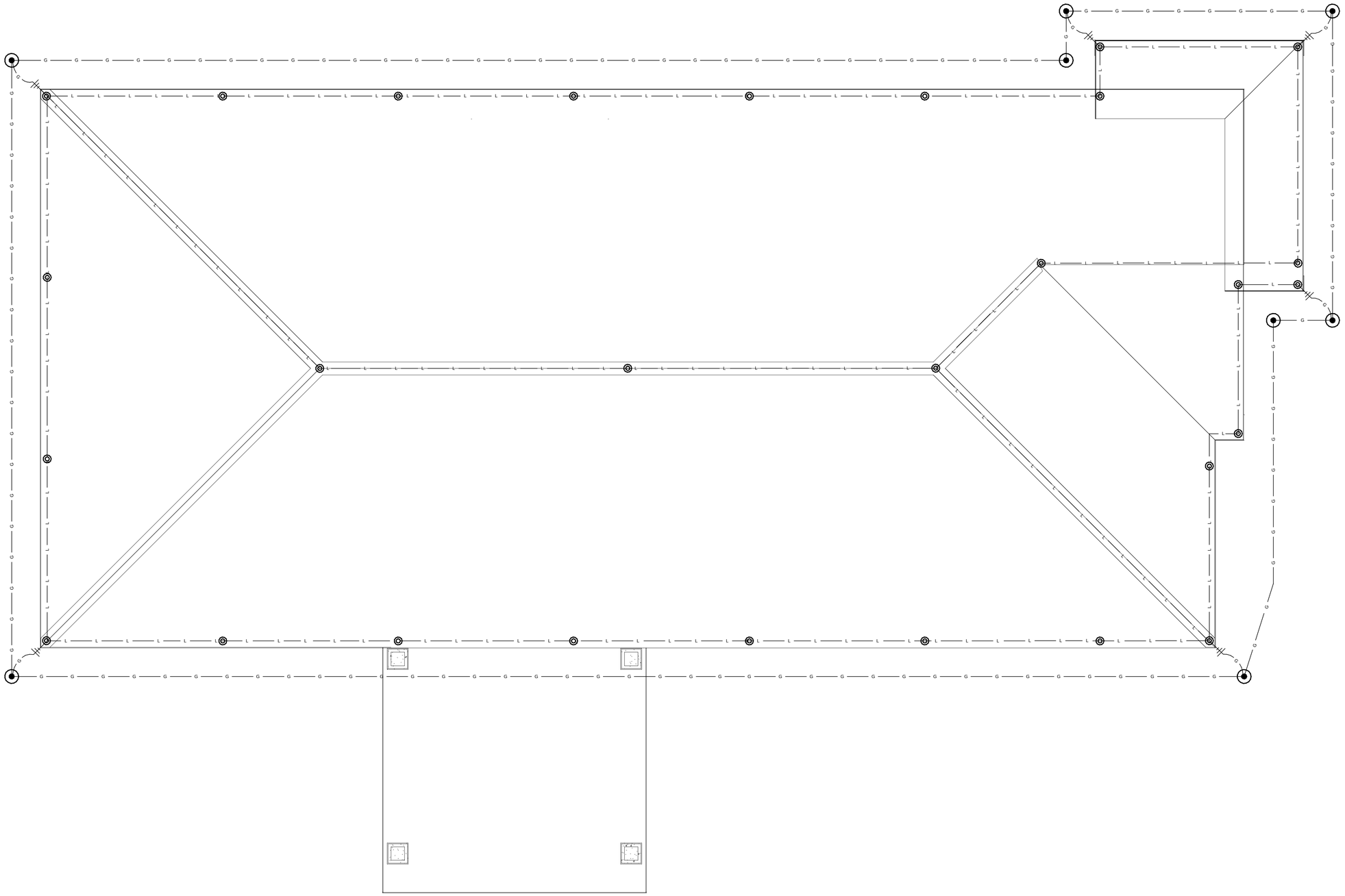
POLICE STATION HVAC ELECTRICAL PLAN

SHEET NUMBER:

E1.50

8/6/2024 8:44:13 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024



1 POLICE STATION GROUNDING AND LIGHTNING PROTECTION
3/16" = 1'-0"

4' 2' 0' 4' 8'

GENERAL NOTES:

1. LIGHTNING PROTECTION IS REPRESENTATIVE LAYOUT. PROVIDE FINAL DESIGN IN ACCORDANCE WITH THESE PLANS.

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Surveyors LB - 0000193

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

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DATE: 5-18-2022
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PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

POLICE STATION GROUNDING AND LIGHTNING PROTECTION PLAN

SHEET NUMBER:

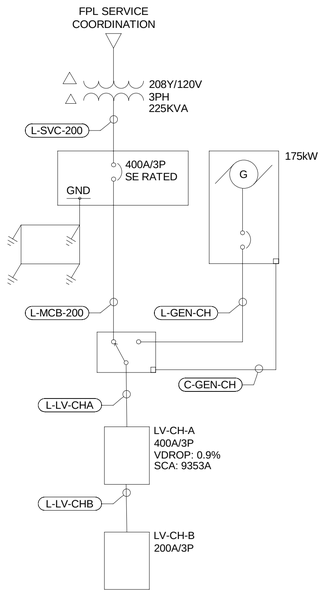
E1.60

8/6/2024 8:44:13 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024

FEEDER MARK	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	TO	NOTES
C-GEN-CH	1	-	PER MFR	GEN-CH	ATS-CH	
C-SGN-01	1	2"	6#14, 1#14G	SIGN CONTROLS	DIGITAL SIGN	
C-SPR-200	5	1"	PULLSTRING	CITY MAIN IT ROOM	5FT OUTSIDE OF BUILDING	
F-CAM-200	1	2"	1-12STR OF	CAMERA-200	IT SERVER RACK 201	
F-CAM-400	1	2"	1-12STR OF	CAMERA-400	IT SERVER RACK 201	
F-F S-01	1	2"	1-12STR OF	FIRE STATION IT SERVER	IT SERVER RACK 201	
F-PS-01	1	2"	1-12STR OF	POLICE STATION IT SERVER	IT SERVER RACK 201	
F-PW-01	1	2"	1-12STR OF	PUBLIC WORKS IT SERVER	IT SERVER RACK 201	
L-AHU-200	1	1-1/2"	3#6, 1#6N, 1#6G	LV-CH-A	AHU-200	
L-AHU-201	1	1-1/2"	3#4, 1#4N, 1#4G	LV-CH-A	AHU-201	
L-BS-200	1	1"	2#12, 1#12G	LV-CH-A	BS-1,BS-1,BS-3,BS-4	
L-EX-CH	1	1"	1#12, 1#12N, 1#12G	LV-PS-A	EXIT LIGHTS	
L-FACP-200	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	FACP	
L-GEN-CH	2	3"	3#3/0, 1#3/0N, 1#3/0G	GEN-CH	ATS-CH	
L-HVAC-207	1	-	2#12, 1#12N, 1#12G	LV-CH-A	HVAC RM 202,203,207,208,210,211,212	
L-HVAC-217	1	-	2#12, 1#12N, 1#12G	LV-CH-B	HVAC RM 213,215,216,217,219,224	
L-HVAC-222	1	-	2#12, 1#12N, 1#12G	LV-CH-B	HVAC RM 206,209,218,221,222,224	
L-HVAC-225	1	-	2#12, 1#12N, 1#12G	LV-CH-B	HVAC RM 223,225,226,227,230,231,232	
L-IT-201-A	1	-	2#6, 1#6N, 1#6G	LV-CH-B	IT RM 225 (SERVER RACK)	
L-IT-201-B	1	-	2#6, 1#6N, 1#6G	LV-CH-B	IT RM 225 (SERVER RACK)	
L-IT-202-A	1	-	2#6, 1#6N, 1#6G	LV-CH-B	IT RM 225 (SERVER RACK)	
L-IT-202-B	1	-	2#6, 1#6N, 1#6G	LV-CH-B	IT RM 225 (SERVER RACK)	
L-LTS-200	1	1"	1#8, 1#8N, 1#8G	LV-CH-A	SITE LIGHTING	
L-LTS-201	1	1"	1#8, 1#8N, 1#8G	LV-CH-A	SITE LIGHTING	
L-LTS-209	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	LC-209	
L-LTS-225	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	LC-225	
L-LTS-226	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	LC-226	
L-LTS-227	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	LC-224	
L-LV-CH-A	2	3"	3#3/0, 1#3/0N, 1#3/0G	ATS-CH	LV-CH-A	
L-LV-CH-B	1	3"	3#3/0, 1#3/0N, 1#3/0G	LV-CH-A	LV-CH-B	
L-MCB-200	2	3"	3#3/0, 1#3/0N, 1#3/0G	MCB-200	ATS-CH	
L-REC-203-A	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	RECEPTACLE RM 210,211	
L-REC-203-B	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	RECEPTACLE RM 203	
L-REC-205	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 218	
L-REC-207	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	RECEPTACLE RM 207,208	
L-REC-213	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	RECEPTACLE RM 212,213,214	
L-REC-215	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 215	
L-REC-217	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 216,217	
L-REC-218-A	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 206,209,218	
L-REC-218-B	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 218	
L-REC-218-C	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 218	
L-REC-218-D	1	-	2#8, 1#8N, 1#8G	LV-CH-A	REC, 218 OVEN	NEMA 14-50
L-REC-221	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 219,221	
L-REC-222	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 222	
L-REC-223	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 223	
L-REC-224-A	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 201,224	
L-REC-224-B	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 224	
L-REC-224-C	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	RECEPTACLE RM 200	
L-REC-224-D	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 224	
L-REC-224-E	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	RECEPTACLE RM 224	

FEEDER MARK	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	TO	NOTES
L-REC-225	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 225B,226	
L-REC-226	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 227,230,231	
L-REC-227	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 227	
L-REC-229	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	RECEPTACLE RM 204, 205, 220, 228, 229	
L-REC-232	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	RECEPTACLE RM 232	
L-REC-2OUT	1	1"	1#12, 1#12N, 1#12G	LV-CH-B	OUTSIDE REC	
L-SGN-01	1	2"	1#10, 1#10N, 1#10G	LV-CH-B	DIGITAL SIGN	
L-SPR-200	5	1"	PULLSTRING	LV-PS-A	5FT OUTSIDE OF BUILDING	
L-SVC-200	2	2"	2#3/0, 1#3/0N	TX-CH	MCB-200	
L-WH-CH	1	1"	3#12, 1#12N, 1#12G	LV-CH-A	WATER HEATER RM 204	
L-EF-205	1	-	2#12, 1#12N, 1#12G	LV-CH-B	EXHAUST FAN	
L-EF-228	1	-	2#12, 1#12N, 1#12G	LV-CH-B	EXHAUST FAN	
L-EF-220	1	-	2#12, 1#12N, 1#12G	LV-CH-B	EXHAUST FAN	
L-EF-229	1	-	2#12, 1#12N, 1#12G	LV-CH-B	EXHAUST FAN	
L-EF-204	1	-	2#12, 1#12N, 1#12G	LV-CH-B	EXHAUST FAN	
L-EF-214	1	-	2#12, 1#12N, 1#12G	LV-CH-B	EXHAUST FAN	
L-EF-218	1	-	2#12, 1#12N, 1#12G	LV-CH-B	EXHAUST FAN	
L-DOAS-226	1	1"	2#12, 1#12G	LV-CH-A	DOAS-226	
L-RCP-201	1	1"	1#12, 1#12N, 1#12G	LV-CH-A	RCP-201	



CITY HALL ONE-LINE DIAGRAM

NOT TO SCALE

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Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

CITY HALL ONE-LINE DIAGRAM

SHEET NUMBER:

E2.15

PANEL: LV-CH-A

VOLTS L-L:	208 V	**MAIN OVERCURRENT:**	400 A	**BUS MATERIAL:**		**LOCATION:**	
VOLTS L-N:	120 V	**MAIN BUS RATING:**	400 A	**NUETRAL SIZE:**		**ENCLOSURE TYPE:**	Type 1
PHASE:	3	**MINIMUM AIC:**				**GROUND:**	
WIRE:	4						

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
1	20 A	1	REC 224B WATER FOUNTAIN	150	800					LTS,215, 216, 217,219, 221, 222, 223, 225A. 225B	1	20 A	2
3	20 A	1	FACP-CH			500	1440			REC, 210, 211	1	20 A	4
5	20 A	1	REC, WATER COOLER					180	1269	LTS, 207, 208, 209, 210, 211, 212, 213, 214	1	20 A	6
7	20 A	1	REC, CORRIDOR 203	1080	1260					REC, 207, 208	1	20 A	8
9	20 A	1	RCP-201			50							10
11	20 A	1	SITE LIGHTING					1510	1620	REC, 212,213	1	20 A	12
13	20 A	1	REC, 200	1440	11500					OVEN	2	50 A	14
15							0						16
17	20 A	2	HVAC					150	50	BRANCH SELECTORS	2	20 A	18
19				150	50								20
21													22
23								12339	1440	REC, 232	1	20 A	24
25	200 A	3	LV-CH-B	13545	375					HVAC	2	20 A	26
27						13640	375						28
29								3433					30
31	40 A	3	AHU-200	3433	6433								32
33						3433	6433			AHU-201	3	80 A	34
35								3000	6433				36
37	40 A	3	WATER HEATER	3000	780					DOAS-226	2	20 A	38
39						3000	780						40
41													42
			TOTAL CONNECTED LOAD (VA) PER PHASE:	43950 VA		29603 VA		31305 VA					
			TOTAL CONNECTED LOAD (AMPS) PER PHASE:	368 A		247 A		263 A					

TOTAL CONNECTED LOAD (VA):	104850 VA
TOTAL CONNECTED LOAD (AMPS):	291 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

PANEL: LV-CH-B

VOLTS L-L:	208 V	**MAIN OVERCURRENT:**	200 A	**BUS MATERIAL:**		**LOCATION:**	
VOLTS L-N:	120 V	**MAIN BUS RATING:**	200 A	**NUETRAL SIZE:**		**ENCLOSURE TYPE:**	Type 1
PHASE:	3	**MINIMUM AIC:**				**GROUND:**	
WIRE:	4						

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
43					540					REC, 218 COUNTERS	1	20 A	44
45	20 A	1	REC, WATER COOLER			180	672			LTS 201, 203, 224	1	20 A	46
47	20 A	1	DIGITAL SIGN					200	900	REC, 215	1	20 A	48
49	20 A	1	REC, 218, REFRIDGERATOR	1000	1188					LTS, 226, 227, 230, 231, 232	1	20 A	50
51	20 A	1	REC, 204, 205, 220, 228, 229			1080	1200			REC 227 PRINTER	1	20 A	52
53	20 A	1	REC, 223					1080	1200	REC, 218 MICROWAVE	1	20 A	54
55	20 A	1	REC, 216, 217	1440	1620					REC, 227, 230, 231	1	20 A	56
57	60 A	1	IT SERVER RACK REC			3000							58
59	20 A	1	REC, 224					1440	1980	REC, 206, 209, 218	1	20 A	60
61	20 A	1	REC, 219, 221	1800	3000					IT SERVER RACK REC	1	60 A	62
63	20 A	1	REC, 222			1260	900			Receptacle	1	20 A	64
65	20 A	2	HVAC					100	400	HVAC	2	20 A	66
67				100	400								68
69	40 A	2	IT SERVER RACK REC			5000	25			EF-205	1	20 A	70
71								0	5000	SERVER RACK 1	2	430 A	72
73					0								74
75	20 A	1	EF-220			25	45			EF-228	1	20 A	76
77									1260	REC, 225, 226	1	20 A	78
79	20 A	1	REC, 201 RECEP. DESK	1260	45					EF-228	1	20 A	80
81	20 A	1	EF-204			165	25			EF-214	1	20 A	82
83	20 A	1	EF-218					100					84
			TOTAL CONNECTED LOAD (VA) PER PHASE:	12339 VA		13545 VA		13640 VA					
			TOTAL CONNECTED LOAD (AMPS) PER PHASE:	103 A		114 A		115 A					

TOTAL CONNECTED LOAD (VA):	39523 VA
TOTAL CONNECTED LOAD (AMPS):	110 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

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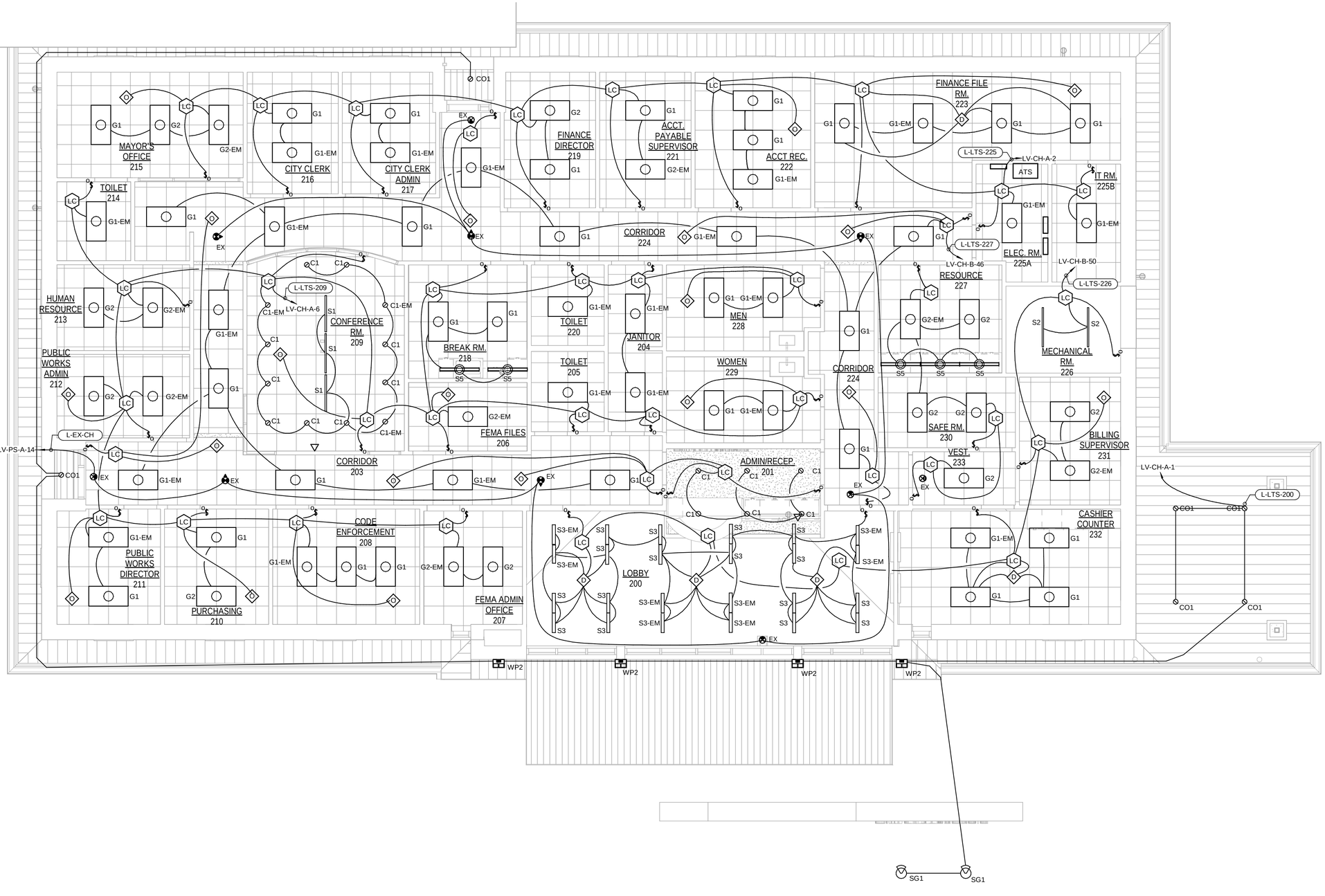
SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E2.17

GENERAL NOTES:

1. THE SENSORS AND SWITCHES SHOWN ON THESE PLANS ARE A REPRESENTATIVE DESIGN BASED ON THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION TO ILLUSTRATE THE REQUIRED LIGHTING CONTROLS OF EACH SPACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SELECTED LIGHTING EQUIPMENT MANUFACTURER'S REPRESENTATIVE TO COORDINATE REQUIRED VARIATIONS THAT MAY BE REQUIRED FOR THE SELECTED DEVICES TO FUNCTION AS REQUIRED.



1 CITY HALL LIGHTING PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE:		5-18-2022
DESIGNED BY:	MK	
DRAWN BY:	HDE	
CHECKED BY:	SR	
PROJECT ENGINEER:	AKG	
PROJECT MANAGER:	BC	
Mott MacDonald PROJECT NO:	502100062-005	

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

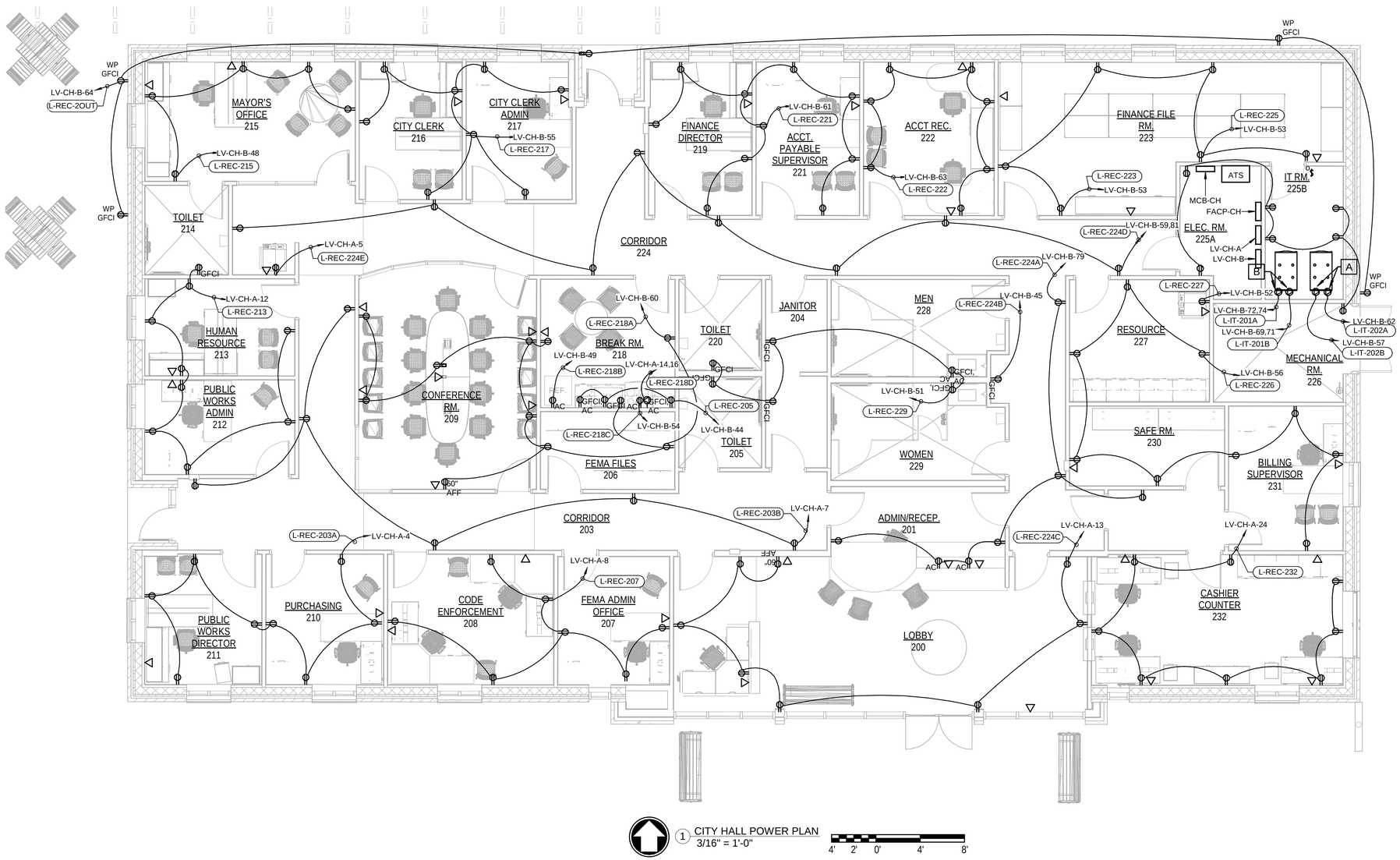
CITY HALL LIGHTING PLAN

SHEET NUMBER:

E2.20

8/6/2024 8:44:15 AM SPRINGFIELD CITY COMPLEX 502100062-005

ISSUED FOR BIDS-AUGUST 2024



1 CITY HALL POWER PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

GENERAL NOTES

1. COORDINATE RECEPTACLE AND COMMUNICATION OUTLETS LOCATIONS WITH FINAL LOCATION OF DISPLAY. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
2. INSTALL ALL DATA DEVICES IN WALL BOX WITH A 1" CONDUIT IN THE FOUNDATION AND/OR WALL TO 6" ABOVE CEILNG LINE. DATA CABLE MAY BE EXPOSED FROM THERE TO NEAREST IT ROOM.
3. COMMUNICATIONS RISER AND EQUIPMENT TO BE PROVIDED BY OWNER SELECTED SPECIALTY CONTRACTOR. FOR THIS CONTRACT, INSTALL BOXES, CONDUIT TO NEAREST WALL TO ABOVE CEILING WALL DEVICES AND PLATES.

KEY NOTES:

A. INSTALL TWIST AND LOCK NEMA L5-30P PLUGS AT IT SERVER RACK.

B. INSTALL TWIST AND LOCK NEMA L6-30P PLUGS AT IT SERVER RACK.

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MOTT MACDONALD

Architects AA - C000035
Engineers EB - 0000705
Surveyors LB - 0000783

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SHEET TITLE:

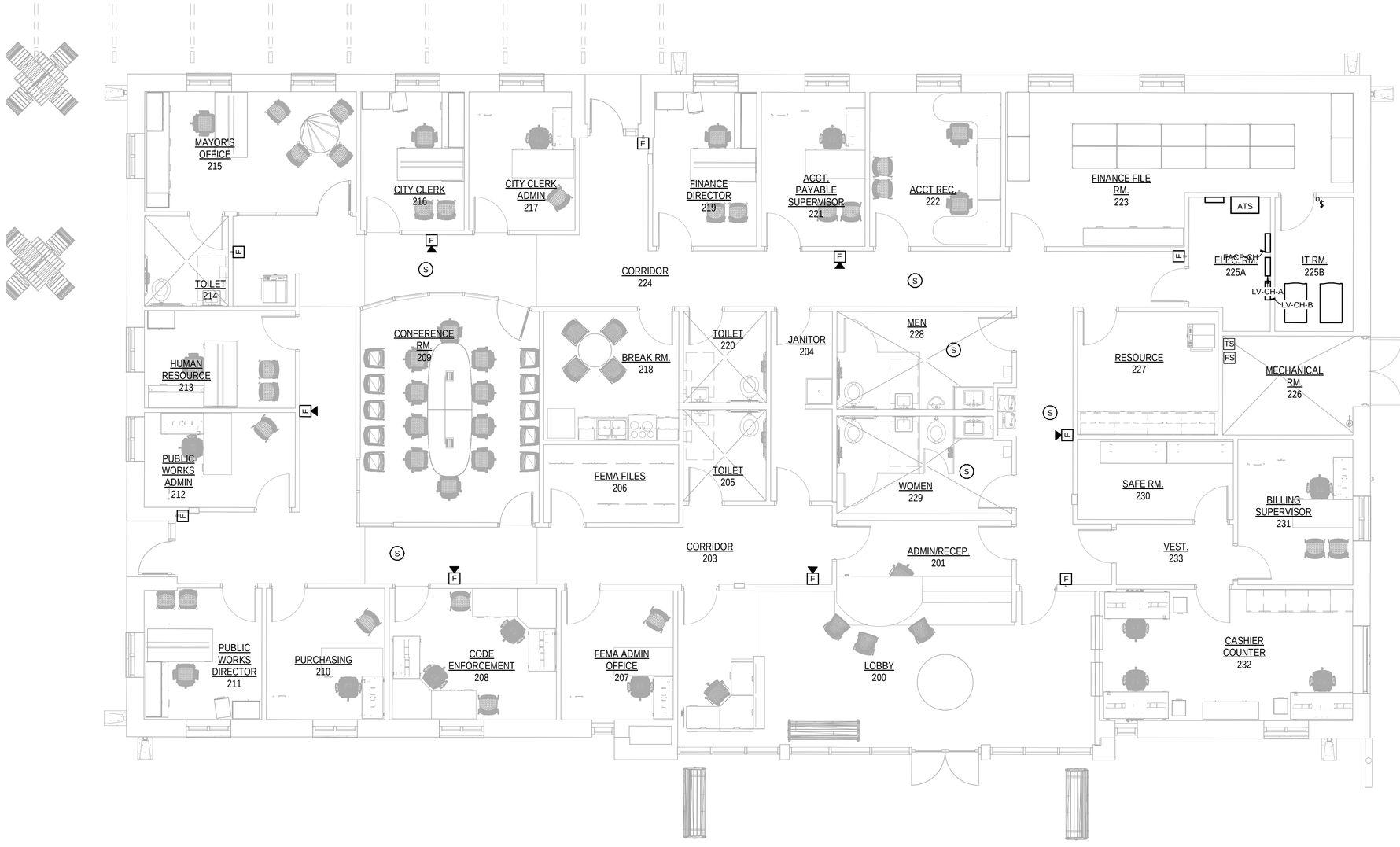
CITY HALL POWER PLAN

SHEET NUMBER:

E2.30

8/6/2024 8:44:21 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024



1 CITY HALL FIRE ALARM PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DETAILED FIRE ALARM DESIGN REQUIRED BY FLORIDA LAW.
2. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FIRE ALARM INSTALLATION DRAWINGS BY A FLORIDA P.E.(THE P.E. SHALL ACT AS A DELEGATE ENGINEER FOR THE DESIGN OF THE FIRE ALARM SYSTEM.)
3. THE DEVICES SHOWN ON THE PLANS REPRESENT THE MINIMUM NUMBER OF REQUIRED DEVICES.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY OPERATIONAL FIRE PROTECTION SYSTEM
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE FBC, NFPA 13, NFPA 72, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
6. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND MAKING PLAN REVISIONS AS DIRECTED AND REQUIRED.
7. CONTRACTOR TO PROVIDE 3/4"C FROM ALL FIRE ALARM DEVICES TO FIRE ALARM CONTROL PANEL WITH CONDUCTOR AS REQUIRED.
8. THE DELEGATE ENGINEER OF RECORD FOR THE FIRE ALARM SYSTEM SHALL COMPLY WITH FLORIDA STATUTE 61G15-33.006.

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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	REV.	DATE

DATE: 5-18-2022
DESIGNED BY: SJR
DRAWN BY: HDE
CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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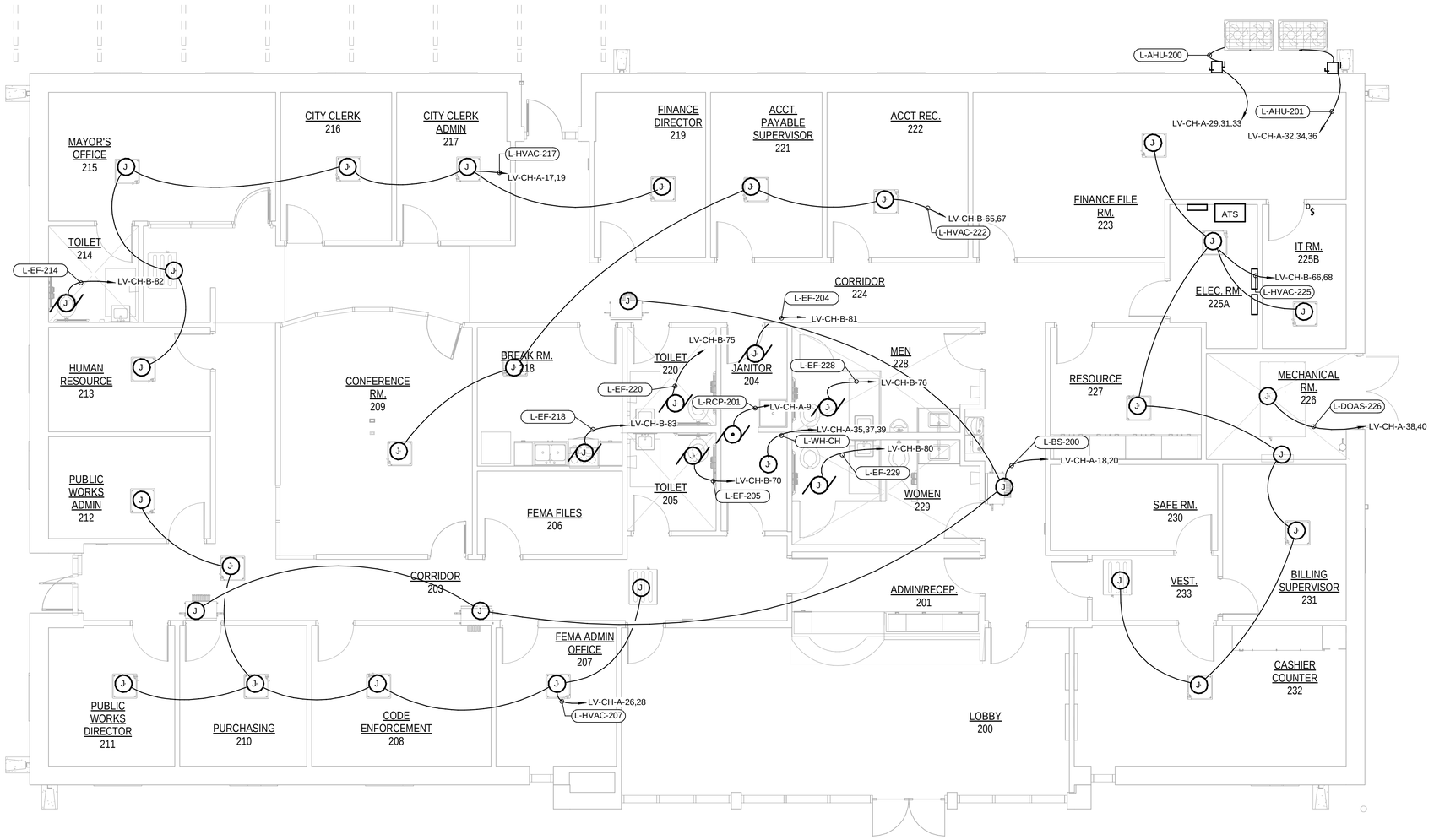
SHEET TITLE:
CITY HALL FIRE ALARM PLAN

SHEET NUMBER:
E2.40



1 CITY HALL HVAC ELECTRICAL PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

GENERAL NOTES:

1. ALL CONTROL WIRING FOR MENCHANICAL SHALL BE GOVERNED BY DIVISION 26 REQUIREMENTS. ALL CONTROL WIRING SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS. COORDINATE WIRING REQUIREMENTS WITH THE MANUFACTURER OF THE EQYUIPMENT AND PROVIDE CONTROL WIRING REQUIRED FOR SPECIFIED OPERATION OF THE EQUIPMENT.

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SPRINGFIELD, FLORIDA 32401

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PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

CITY HALL HVAC ELECTRICAL PLAN

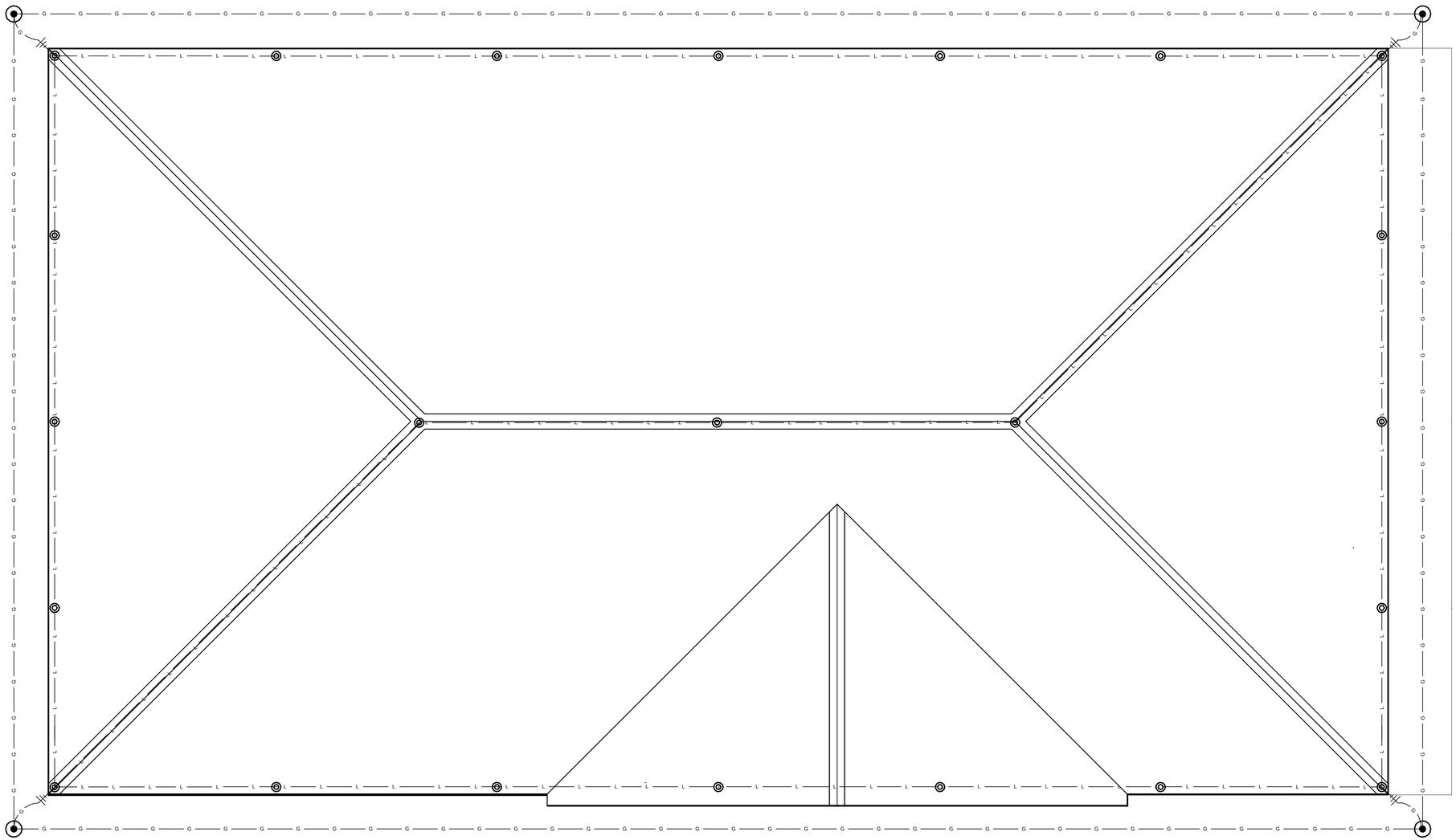
SHEET NUMBER:

E2.50

ISSUED FOR BIDS-AUGUST 2024

GENERAL NOTES:

1. LIGHTNING PROTECTION IS REPRESENTATIVE LAYOUT. PROVIDE FINAL DESIGN IN ACCORDANCE WITH THESE PLANS.



1 CITY HALL GROUNDING AND LIGHTNING PROTECTION PLAN
3/16" = 1'-0"

4' 2' 0' 4' 8'

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Engineers EB - 0000195
Surveyors LB - 0000193

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: SJR
DRAWN BY: HDE
CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100962-005

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SHEET TITLE:

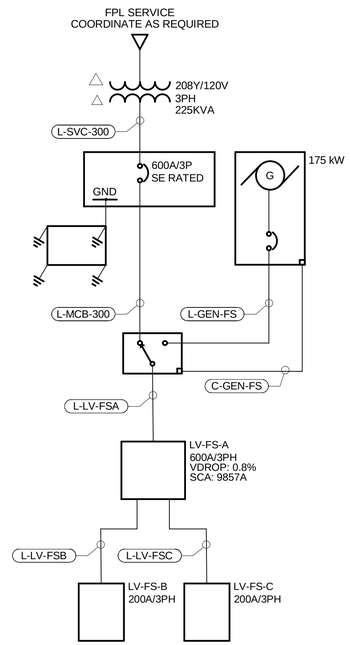
CITY HALL GROUNDING AND LIGHTNING PROTECTION PLAN

SHEET NUMBER:

E2.60

FEEDER MARK	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	TO	NOTES
L-AHU-300	1	1.5"	3#8, 1#8N, 1#8G	LV-FS-C	AHU 300	
L-AHU-301	1	2"	3#4, 1#4N, 1#4G	LV-FS-C	AHU 301	
L-BAS-335	1	1"	2#10, 1#10N, 1#10G	LV-FS-A	BAS-335	
L-BS1-300	1	1"	2#12, 1#12G	LV-FS-C	BS-1,BS-2,BS-3,BS-4	
L-BS2-300	1	1"	2#12, 1#12G	LV-FS-C	BS-5	
L-CF-330-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	CEILING FAN RM 330	
L-CF-330-B	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	CEILING FAN RM 330	
L-CF-330-C	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	CEILING FAN RM 330	
L-DBF-318	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	DRYER BOOSTER FAN ROM 318	
L-DOAS-316	1	1"	2#12, 1#12G	LV-FS-C	MECH RM 316	
L-DR-330-A	1	1.5"	3#12, 1#12N, 1#12G	LV-FS-B	ROLL UP DOORS	
L-DR-330-B	1	1.5"	3#12, 1#12N, 1#12G	LV-FS-B	ROLL UP DOORS	
L-DR-330-C	1	1.5"	3#12, 1#12N, 1#12G	LV-FS-B	ROLL UP DOORS	
L-DR-330-D	1	1.5"	3#12, 1#12N, 1#12G	LV-FS-B	ROLL UP DOORS	
L-EF-305	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 306	
L-EF-312	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 312	
L-EF-317	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 317	
L-EF-321	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 321	
L-EF-324	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 324	
L-EF-325	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 325	
L-EF-329	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 329	
L-EF-330-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 330	
L-EF-330-B	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 331	
L-EF-331	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 331	
L-EF-336	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	EXHUST FAN RM 336	
L-EX-FS	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	EXIT SIGNS	
L-FACP-400	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	FACP	
C-GEN-FS	1	1"	PER MFR	GEN-FS	ATS-FS	
L-GEN-FS	2	4"	3#350, 1#350N, 1#350G	GEN-FS	ATS-FS	
L-HVAC-302	1	1"	2#12, 1#12G	LV-FS-C	HVAC RM 300,301,302	
L-HVAC-304	1	1"	2#12, 1#12G	LV-FS-C	HVAC RM 304,305,322	
L-HVAC-312	1	1"	2#12, 1#12G	LV-FS-C	HVAC RM 303,307,309,310,311,312	
L-HVAC-314	1	1"	2#12, 1#12G	LV-FS-C	HVAC RM 320,323,326,327,328	
L-HVAC-315	1	1"	2#12, 1#12G	LV-FS-C	HVAC RM 314,315,318	
L-HVAC-333	1	1"	2#12, 1#12G	LV-FS-C	HVAC RM 333,334,335,336	
L-IT-301	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	IT RM 315	
L-LTS-300-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	BUILDING OUTSIDE LIGHTING	
L-LTS-300-B	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	BUILDING OUTSIDE LIGHTING	
L-LTS-300	1	1"	1#10, 1#10N, 1#10G	LV-FS-A	SITE LIGHTING	
L-LTS-301	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	LC-303	
L-LTS-304	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	LC-304	
L-LTS-314	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	LC-314	
L-LTS-330-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	LC-330A	
L-LTS-330-B	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	LC-330B	
L-LTS-332	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	LC-332	
L-LV-FS-A	2	4"	3#350, 1#350N, 1#350G	ATS-FS	LV-FS-A	
L-LV-FS-B	1	3"	3#3/0, 1#3/0N, 1#3/0G	LV-FS-A	LV-FS-B	
L-LV-FS-C	1	3"	3#3/0, 1#3/0N, 1#3/0G	LV-FS-A	LV-FS-C	
L-MCB-300	2	4"	3#350, 1#350N, 1#350G	MCB-300	ATS-FS	
L-RCP-301	1	1"	1#12, 1#12N, 1#12G	LV-FS-C	RCP-301	
L-REC-301	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 300,301	
L-REC-304-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 304	
L-REC-304-B	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 304	
L-REC-307	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 305,306,307	
L-REC-310	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 309,310	
L-REC-312-A			1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 312	
L-REC-312	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 311,312	
L-REC-313-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 313	

FEEDER MARK	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	TO	NOTES
L-REC-313-B	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 313	
L-REC-313-C	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 313	
L-REC-313-D	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 313	
L-REC-313-E	1	1"	2#8, 1#8N, 1#8G	LV-FS-B	REC, 313 OVEN	
L-REC-313-F	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	REC, 313 DISHWASHER	
L-REC-314	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 313,314	
L-REC-315	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 315,316,317,318	
L-REC-318-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 318	
L-REC-318-B	1	1"	2#8, 1#8N, 1#8G	LV-FS-B	REC DRYER RM 318	
L-REC-320	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 303,308,320	
L-REC-321	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 321,322,323,324	
L-REC-325	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 325,326,327,328	
L-REC-329	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 302,329	
L-REC-330-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	RECEPTACLE RM 330	
L-REC-330-B	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	RECEPTACLE RM 330	
L-REC-330-C	1	1"	1#12, 1#12N, 1#12G	LV-FS-B	RECEPTACLE RM 330	
L-REC-331	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 331,332,333,334	
L-REC-334-A	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 334	
L-REC-334-B	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 334	
L-REC-335	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE RM 335,336	
L-REC-3OUT	1	1"	1#12, 1#12N, 1#12G	LV-FS-A	RECEPTACLE PATIO	
C-SPR-300	5	1"	PULLSTRING	MAIN IT ROOM	5FT OUTSIDE OF BUILDING	
L-SPR-300	5	1"	PULLSTRING	LV-FS-A	5FT OUTSIDE OF BUILDING	
L-SVC-300	2	4"	3#350, 1#350N	TX-FS	MCB-300	
L-WH-FS	1	1"	1#2, 1#2N, 1#2G	LV-FS-B	WATER HEATER RM 316	
L-EF-313	1	1"	1#2, 1#2N, 1#2G	LV-FS-B	EF-313	



FIRE STATION ONE-LINE DIAGRAM

NOT TO SCALE

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DESCRIPTION	DATE	REV.

DATE: 5-18-2022
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CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

FIRE STATION ONE-LINE DIAGRAM

SHEET NUMBER:

E3.15

PANEL: LV-FS-A

VOLTS L-L:	208 V	MAIN OVERCURRENT:	600 A	BUS MATERIAL:		LOCATION:	
VOLTS L-N:	120 V	MAIN BUS RATING:	600 A	NUETRAL SIZE:		MOUNTING:	Surface
PHASE:	3	MINIMUM AIC:	22K			ENCLOSURE TYPE:	Type 1
WIRE:	4					GROUND:	

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
1	20 A	1	LTS, FS EXTERIOR	90	691					LTS 301, 303, 306, 308, 320, 321, 322, 323, 324	1	20 A	2
3	20 A	1	EXIT SIGNS			280	900			REC 302, 329	1	20 A	4
5	20 A	1	SITE LIGHTING					400	900	REC, 313 COUNTER	1	20 A	6
7	20 A	1	LTS 300, 304, 305, 307, 309	943	1348					LTS,...	1	20 A	8
9	20 A	1	REC, 313, 314			1620	1800			REC, 303, 308, 320	1	20 A	10
11	20 A	1	MICRO REC					1200	1200	SITE LIGHTING	1	20 A	12
13	20 A	1	REC, 309, 310	1440	180					REC, 318, WASHER	1	20 A	14
15	30 A	1	IT SERVER RACK			3000	12888						16
17	20 A	1	REC, 305, 306, 307					1800	25551	LV-FS-B	3	200 A	18
19				13065	8891								20
21	200 A	3	LV-FS-C			12140	180			REC, 334, DRYER	1	30 A	22
23								12065	180	REC, 334, WASH	1	20 A	24
25	20 A	1	REC, 313, FRIDGE 2	180	180					EXERCISE REC	1	20 A	26
27	20 A	1	REC, 313, FRIDGE 3			180	900			REC EXT.	1	20 A	28
29									180	REC, 313, FRIDGE 1	1	20 A	30
31	20 A	1	REC, 300, 301, 302, 329	1080	1260					REC, 304 WALL SIDE	1	20 A	32
33	20 A	1	REC, 304, WINDOW SIDE			1080	1260			REC, 325, 326, 327, 328	1	20 A	34
35	20 A	1	REC, 321, 322, 323, 324					1080	1260	REC, 331, 332, 333, 334	1	20 A	36
37	20 A	1	REC, 311, 312	1440	4160					SCBA, BREATHING AIR SYSTEM	2	80 A	38
39	20 A	1	REC, 315, 316, 317, 318			1440	4160						40
41	20 A	1	REC, 335, 336					1440	500	FACP-FS	1	20 A	42

	A	B	C
TOTAL CONNECTED LOAD (VA) PER PHASE:	34811 VA	41785 VA	47631 VA
TOTAL CONNECTED LOAD (AMPS) PER PHASE:	290 A	357 A	406 A

TOTAL CONNECTED LOAD (VA):	124226 VA
TOTAL CONNECTED LOAD (AMPS):	345 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

PANEL: LV-FS-B

VOLTS L-L:	208 V	MAIN OVERCURRENT:	200 A	BUS MATERIAL:		LOCATION:	
VOLTS L-N:	120 V	MAIN BUS RATING:	200 A	NUETRAL SIZE:		MOUNTING:	Surface
PHASE:	3	MINIMUM AIC:				ENCLOSURE TYPE:	Type 1
WIRE:	4					GROUND:	

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
1	20 A	1	REC, 330 EQUIP	180	520					LTS, 331, 332, 333, 334, 335, 336	1	20 A	2
3	30 A	2	DRYER			5000	800			CF-330B	1	20 A	4
5								0	800	HVAC	1	20 A	6
7	20 A	1	LTS 330	760	1080					REC, 330 ENTRY WALL	1	20 A	8
9	20 A	1	DISHWASHER			180	11500			OVEN	2	50 A	10
11	20 A	1	DRYER BOOSTER PUMP RM 318					70	0				12
13	20 A	1	REC, 330 EXIT WALL	1080	1236					LTS 330	1	20 A	14
15	20 A	2	BS1-300			550	333						16
17								550	333	DR-330A	3	20 A	18
19	20 A	1	CF-330A	800	333								20
21						333	333						22
23	20 A	3	DR-330B					333	333	DR-330C	3	20 A	24
25				333	333								26
27						333	6000						28
29	20 A	3	DR-330D					333	6000	WATER HEATER	3	80 A	30
31				333	6000								32
33	20 A	2	BS2-300			138	50			EF-313	1	20 A	34
35								138					36
37													38
39													40
41													42

	A	B	C
TOTAL CONNECTED LOAD (VA) PER PHASE:	12888 VA	25551 VA	8891 VA
TOTAL CONNECTED LOAD (AMPS) PER PHASE:	113 A	218 A	74 A

TOTAL CONNECTED LOAD (VA):	47312 VA
TOTAL CONNECTED LOAD (AMPS):	131 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

PANEL: LV-FS-C

VOLTS L-L:	208 V	MAIN OVERCURRENT:	200 A	BUS MATERIAL:		LOCATION:	
VOLTS L-N:	120 V	MAIN BUS RATING:	200 A	NUETRAL SIZE:		MOUNTING:	Surface
PHASE:	3	MINIMUM AIC:				ENCLOSURE TYPE:	Type 1
WIRE:	4					GROUND:	

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
1					2800					DOAS-316	1	20 A	2
3	20 A	1	EF-329			20	100			HVAC-333	2	15 A	4
5									100				6
7	15 A	2	HVAC-302	75	20					EF-325	1	20 A	8
9						75	125			HVAC-304	2	15 A	10
11	20 A	1	EF-331					20	125				12
13	20 A	1	EF-305	20									14
15	15 A	2	HVAC-315			150	175			HVAC-312	2	15 A	16
17								150	175				18
19	20 A	1	EF-312	100	50					RCP-1	1	20 A	20
21	15 A	2	HVAC-314			175	600			EF-330A	2	20 A	22
23								175	600				24
25													26
27	20 A	2	EF-330B			600	20			EF-321	1	20 A	28
29								600	20	EF-324	1	20 A	30
31													32
33							100			EF-317	1	20 A	34
35									100	EF-336	1	20 A	36
37				3167	6833								38
39	40 A	3	AHU-300			3167	6833			AHU-301	3	80 A	40
41								3167	6833				42

	A	B	C
TOTAL CONNECTED LOAD (VA) PER PHASE:	13065 VA	12140 VA	12065 VA
TOTAL CONNECTED LOAD (AMPS) PER PHASE:	109 A	101 A	101 A

TOTAL CONNECTED LOAD (VA):	37270 VA
TOTAL CONNECTED LOAD (AMPS):	103 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

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SPRINGFIELD CITY COMPLEX
City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

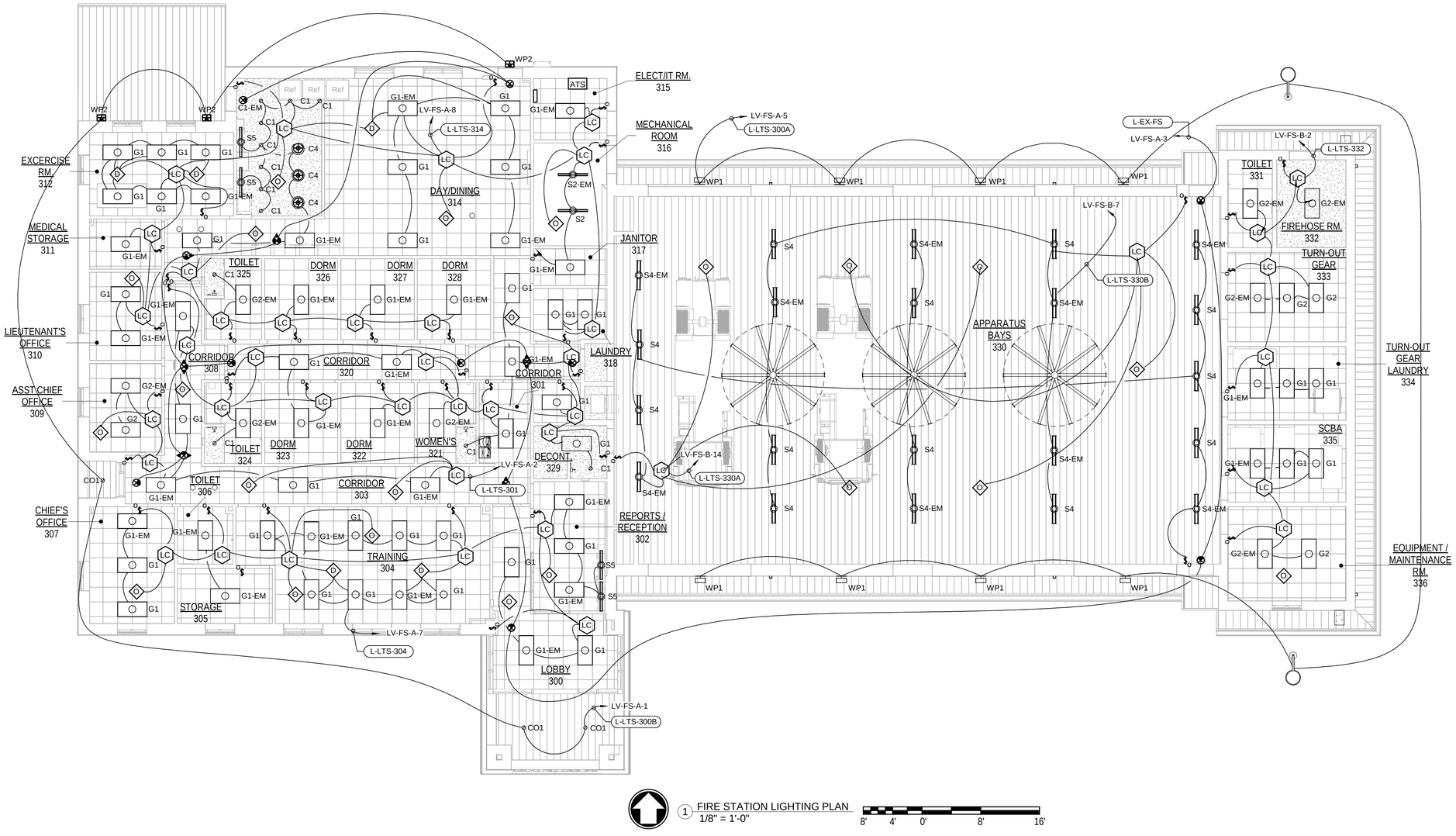
DATE	REV.	DESCRIPTION

THIS DRAWING IS NOT FOR CONSTRUCTION

DATE:	5-18-2022
DESIGNED BY:	MK
DRAWN BY:	HDE
CHECKED BY:	SR
PROJECT ENGINEER:	AKG
PROJECT MANAGER:	BC
Mott MacDonald PROJECT NO:	502100062-005

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E3.17



1 FIRE STATION LIGHTING PLAN
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES:

1. THE SENSORS AND SWITCHES SHOWN ON THESE PLANS ARE A REPRESENTATIVE DESIGN BASED ON THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION TO ILLUSTRATE THE REQUIRED LIGHTING CONTROLS OF EACH SPACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SELECTED LIGHTING EQUIPMENT MANUFACTURER'S REPRESENTATIVE TO COORDINATE REQUIRED VARIATIONS THAT MAY BE REQUIRED FOR THE SELECTED DEVICES TO FUNCTION AS REQUIRED.

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DATE	REV.	DESCRIPTION

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:
FIRE STATION LIGHTING PLAN

SHEET NUMBER:
E3.20

8/6/2024 8:44:33 AM 502100062-005 SPRINGFIELD CITY COMPLEX

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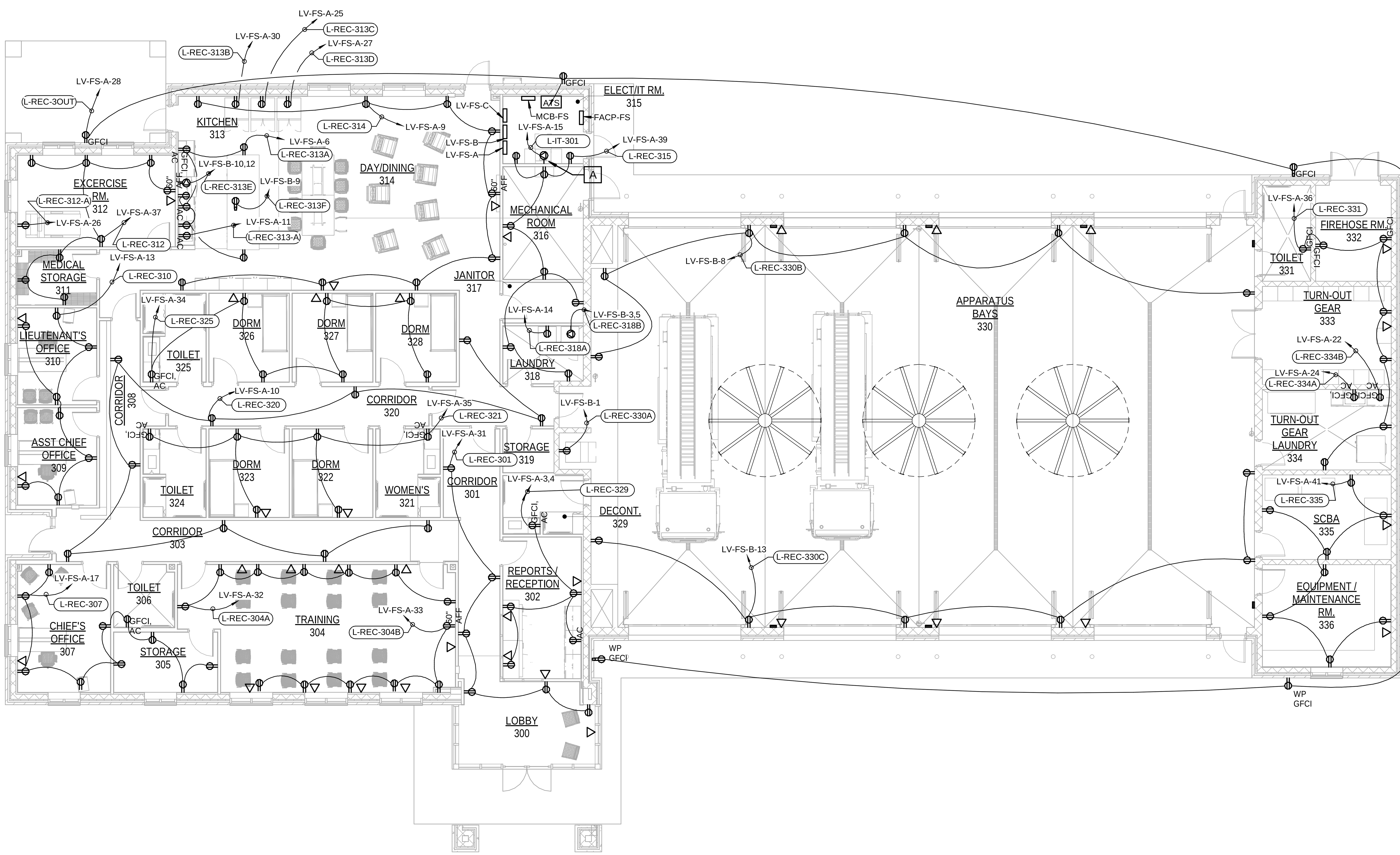

1 FIRE STATION POWER PLAN
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES

1. COORDINATE RECEPTACLE AND COMMUNICATION OUTLETS LOCATIONS WITH FINAL LOCATION OF DISPLAY. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
2. INSTALL ALL DATA DEVICES IN WALL BOX WITH A 1" CONDUIT IN THE FOUNDATION AND/OR WALL TO 6" ABOVE CEILNG LINE. DATA CABLE MAY BE EXPOSED FROM THERE TO NEAREST IT ROOM.
3. COMMUNICATIONS RISER AND EQUIPMENT TO BE PROVIDED BY OWNER SELECTED SPECIALTY CONTRACTOR. FOR THIS CONTRACT, INSTALL BOXES, CONDUIT TO NEAREST WALL TO ABOVE CEILING WALL DEVICES AND PLATES.

KEY NOTES:

A. INSTALL TWIST AND LOCK NEMA L5-30P PLUGS AT IT SERVER RACK.

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PROJECT MANAGER: BC
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SHEET TITLE:

FIRE STATION POWER PLAN

SHEET NUMBER:

E3.30

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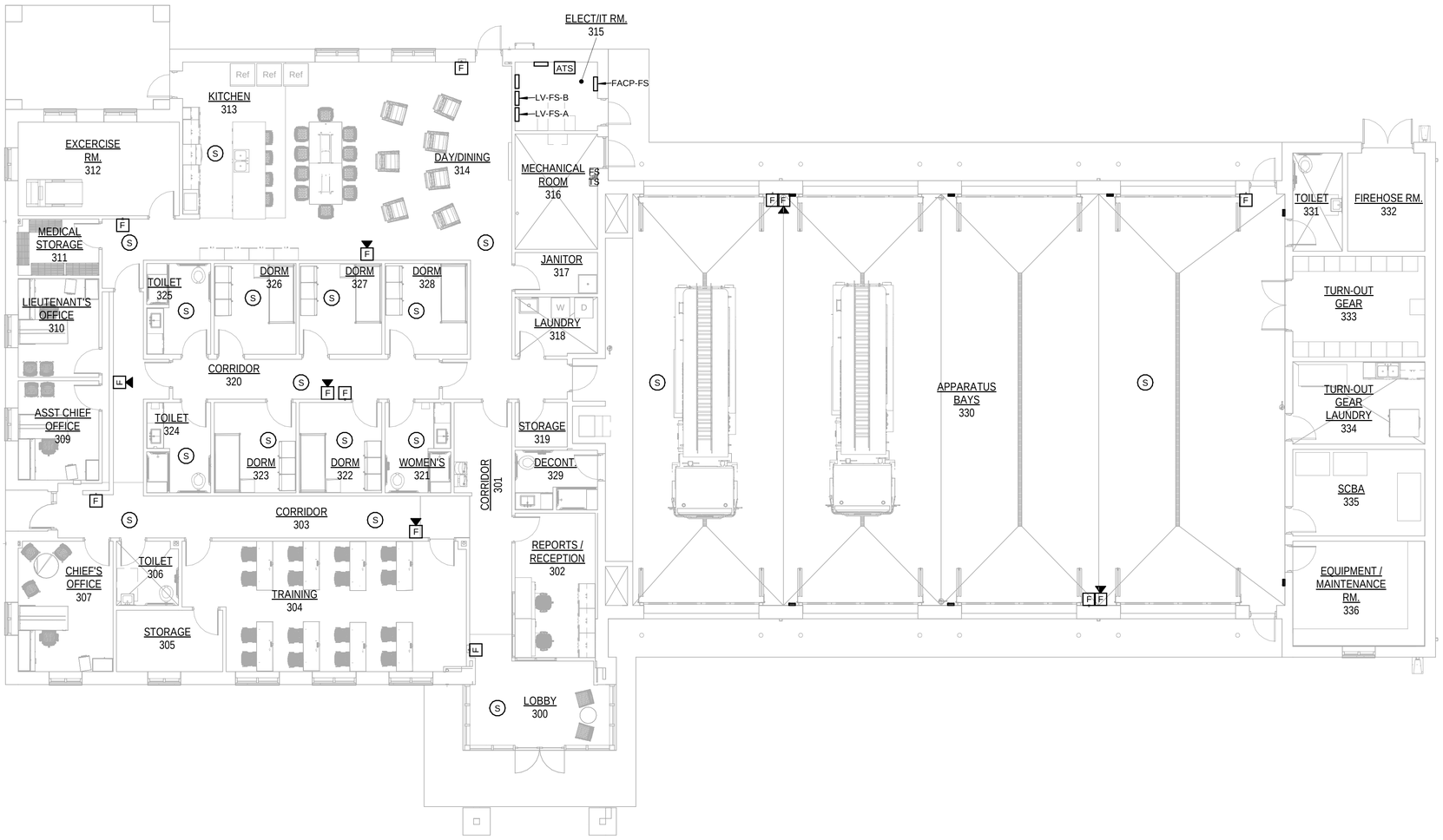

1 FIRE STATION FIRE ALARM PLAN
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DETAILED FIRE ALARM DESIGN REQUIRED BY FLORIDA LAW.
2. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FIRE ALARM INSTALLATION DRAWINGS BY A FLORIDA P.E.(THE P.E. SHALL ACT AS A DELEGATE ENGINEER FOR THE DESIGN OF THE FIRE ALARM SYSTEM.)
3. THE DEVICES SHOWN ON THE PLANS REPRESENT THE MINIMUM NUMBER OF REQUIRED DEVICES.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY OPERATIONAL FIRE PROTECTION SYSTEM
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE FBC, NFPA 13, NFPA 72, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
6. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND MAKING PLAN REVISIONS AS DIRECTED AND REQUIRED.
7. CONTRACTOR TO PROVIDE 3/4"C FROM ALL FIRE ALARM DEVICES TO FIRE ALARM CONTROL PANEL WITH CONDUCTOR AS REQUIRED.
8. THE DELEGATE ENGINEER OF RECORD FOR THE FIRE ALARM SYSTEM SHALL COMPLY WITH FLORIDA STATUTE 61G15-33.006.

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DATE: 5-18-2022
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PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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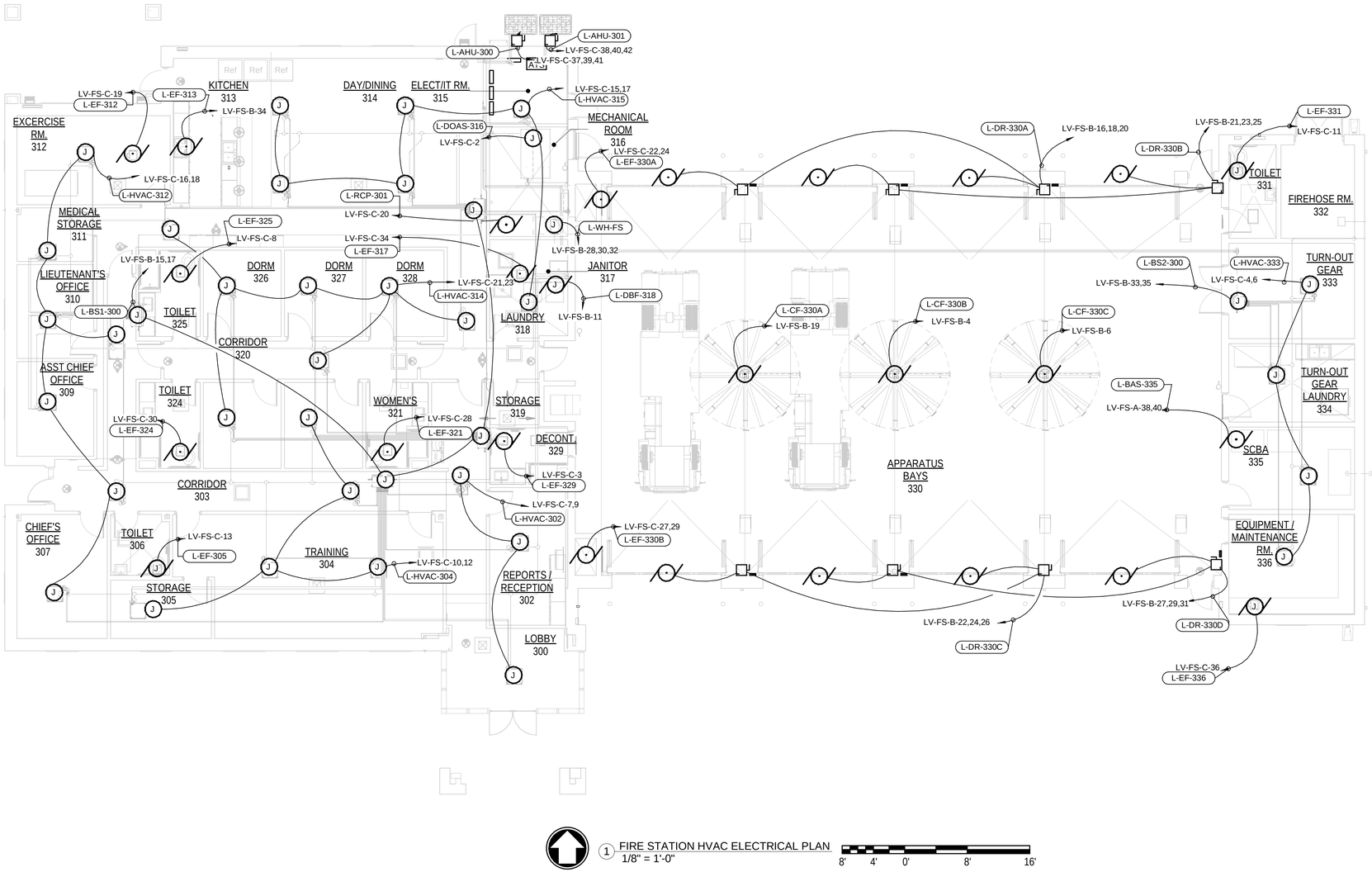
SHEET TITLE:

FIRE STATION FIRE ALARM PLAN

SHEET NUMBER:

E3.40



1 FIRE STATION HVAC ELECTRICAL PLAN
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES:

1. ALL CONTROL WIRING FOR MENCHANICAL SHALL BE GOVERNED BY DIVISION 26 REQUIREMENTS. ALL CONTROL WIRING SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS. COORDINATE WIRING REQUIREMENTS WITH THE MANUFACTURER OF THE EQYUIPMENT AND PROVIDE CONTROL WIRING REQUIRED FOR SPECIFIED OPERATION OF THE EQUIPMENT.

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SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
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CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

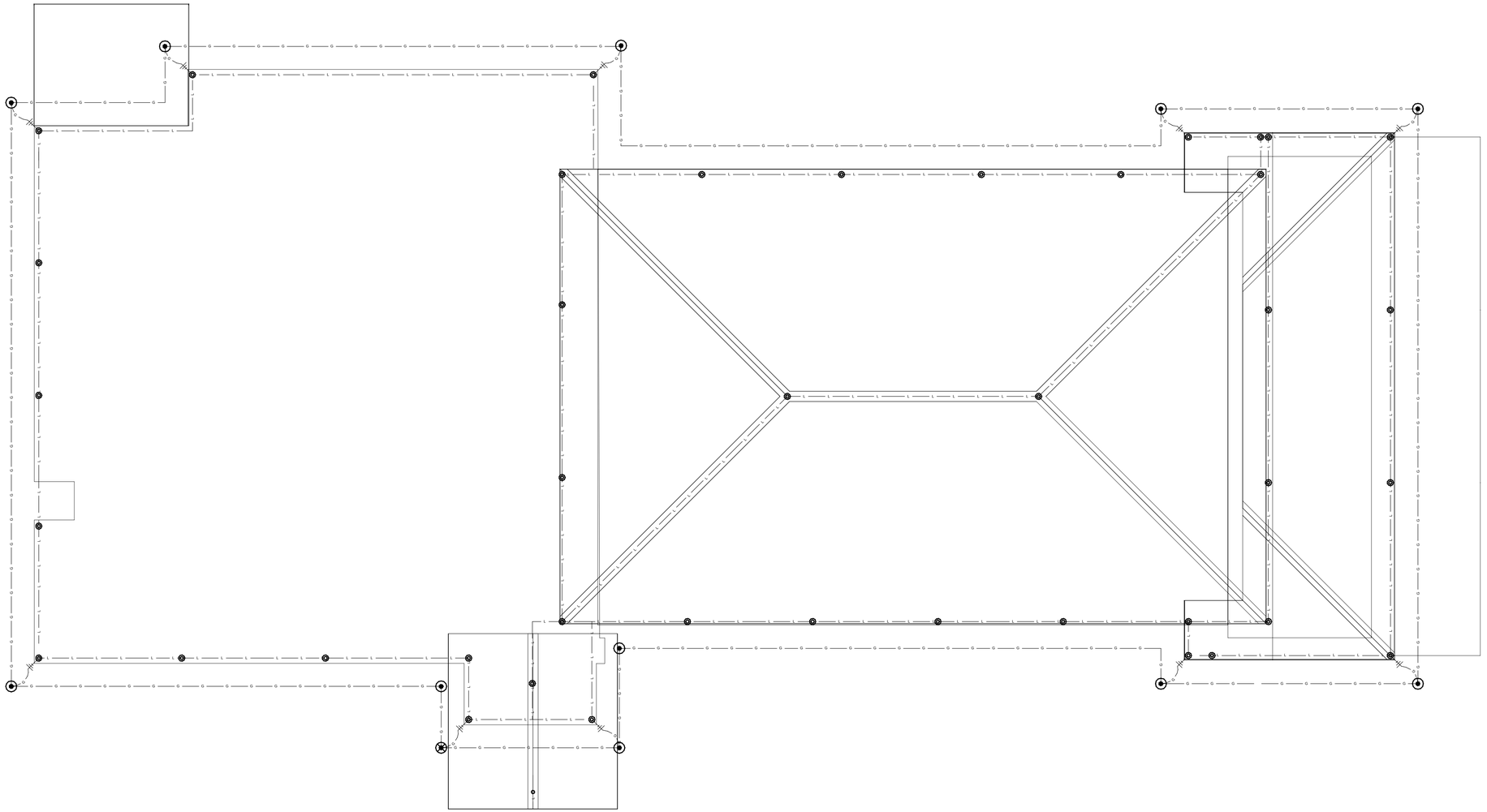
FIRE STATION HVAC ELECTRICAL PLAN

SHEET NUMBER:

E3.50

GENERAL NOTES:

1. LIGHTNING PROTECTION IS REPRESENTATIVE LAYOUT. PROVIDE FINAL DESIGN IN ACCORDANCE WITH THESE PLANS.



1 FIRE STATION GROUNDING AND LIGHTNNG PROTECTION PLAN
1/8" = 1'-0"

8' 4' 0' 8' 16'

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Surveyors LB - 0000783

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SPRINGFIELD CITY COMPLEX

City of Springfield
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SPRINGFIELD, FLORIDA 32401

REV.	DESCRIPTION	DATE

DATE: 5-18-2022
DESIGNED BY: SJR
DRAWN BY: HDE
CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

FIRE STATION GROUNDING AND LIGHTNING PROTECTION PLANS

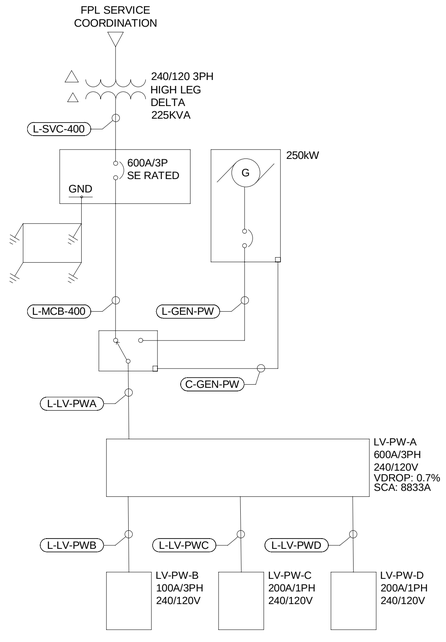
SHEET NUMBER:

E3.60

8/6/2024 8:44:44 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024

FEEDER MARK	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	TO	NOTES
C-GEN-PW	1	2"	PER MFR	GEN-PW	ATS-PW	
C-SPR-400	5	1"	PULLSTRING	MAIN IT ROOM	5FT OUTSIDE OF BUILDING	
L-AHU-400	1	1"	3#8, 1#8N, 1#8G	LV-PW-A	AIR HANDLER	
L-AHU-401	1	1-1/2"	3#4, 1#4N, 1#4G	LV-PW-A	AIR HANDLER	
L-BS1-414	1	1"	2#12, 1#12G	LV-PW-D	BS1,BS2,BS3,BS4	
L-BS5-PW	1	1"	2#12, 1#12G	LV-PW-D	BS5	
L-DBF-422	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	DRYER BOOSTER FAN RM 422	
L-DOAU-419	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	DOAU 419	
L-DR-405-A	1	1"	1#12, 1#12N, 1#12G	LV-PW-A	ROLL UP DOOR	
L-DR-405-B	1	1"	1#12, 1#12N, 1#12G	LV-PW-A	ROLL UP DOOR	
L-DR-407	1	1"	1#12, 1#12N, 1#12G	LV-PW-A	ROLL UP DOOR	
L-DR-421	1	1"	1#12, 1#12N, 1#12G	LV-PW-A	ROLL UP DOOR	
L-DR-425-A	1	1"	1#12, 1#12N, 1#12G	LV-PW-A	ROLL UP DOOR	
L-DR-425-B	1	1"	1#12, 1#12N, 1#12G	LV-PW-A	ROLL UP DOOR	
L-DR-426-A	1	1"	1#12, 1#12N, 1#12G	LV-PW-A	ROLL UP DOOR	
L-DR-426-B	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	ROLL UP DOOR	
L-EF-406	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN	
L-EF-409	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN	
L-EF-413	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN	
L-EF-416	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN	
L-EF-417	1	1"	2#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN	
L-EF-418	1	1"	2#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN	
L-EF-422	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN	
L-EF-426	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN	
L-EF-428	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN RM 428	
L-EF-430	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	EXHAUST FAN RM 430	
L-EX-PWA		1"	1#12, 1#12N, 1#12G	LV-PW-D	EXIT LIGHTS	
L-EX-PWB		1"	1#12, 1#12N, 1#12G	LV-PW-C	EXIT LIGHTS	
L-FACP-400	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	FACP	
L-FAN-1	1	1"	2#12, 1#12G	LV-PW-D	CIRCULATION FAN 7,9	
L-FAN-2	1	1"	2#12, 1#12G	LV-PW-C	CIRCULATION FAN 12	
L-FAN-3	1	1"	2#12, 1#12G	LV-PW-C	CIRCULATION FAN 13	
L-FAN-4	1	1"	2#12, 1#12G	LV-PW-D	CIRCULATION FAN 8,10	
L-FAN-5	1	1"	2#12, 1#12G	LV-PW-D	CIRCULATION FAN 5,6	
L-FAN-6	1	1"	2#12, 1#12G	LV-PW-C	CIRCULATION FAN 11	
L-FAN-7	1	1"	2#12, 1#12G	LV-PW-D	CIRCULATION FAN 1,4	
L-FAN-8		1"	2#12, 1#12G	LV-PW-D	CIRCULATION FAN 2,3	
L-GEN-PW	2	4"	3#350, 1#350N, 1#350G	GEN-PW	ATS-PW	
L-HVAC-415	1	1"	2#12, 1#12G	LV-PW-D	HVAC RM 408,409,410,412,415	
L-HVAC-419	1	1"	2#12, 1#12G	LV-PW-D	HVAC RM 419,420	
L-HVAC-427	1	1"	2#12, 1#12G	LV-PW-D	HVAC RM 427,429	
L-IT-400	1	1"	1#10, 1#10N, 1#10G	LV-PW-C	IT-RM 420 (IT SERVER RACK)	
L-LTS-400	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	SITE LIGHTING	
L-LTS-401	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	SITE LIGHTING	
L-LTS-406	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	LC-406	
L-LTS-407	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	LC-407	
L-LTS-409	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	LC-409	
L-LTS-418	1	1"	1#12, 1#12N, 1#12G	LV-PW-D	LC-418	
L-LTS-425	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	LC-425	
L-LTS-427	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	LC-427	
L-LTS-430	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	LC-430	
L-LV-PW-A	2	4"	3#350, 1#350N, 1#350G	ATS-PW	LV-PW-A	
L-LV-PW-B	1	1-1/2"	3#2, 1#2N, 1#2G	LV-PW-A	LV-PW-B	
L-LV-PW-C	1	3"	3#3/0, 1#3/0N, 1#3/0G	LV-PW-A	LV-PW-C	
L-LV-PW-D	1	3"	3#3/0, 1#3/0N, 1#3/0G	LV-PW-A	LV-PW-D	
L-MCB-400	2	4"	3#350, 1#350N, 1#350G	MCB-400	ATS-PW	
L-RCP-401	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECIRCULATION PUMP	
L-REC-400	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 400,401	
L-REC-404	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 402,404	
L-REC-405	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 405,406	
L-REC-407	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 407	
L-REC-408	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 408	
L-REC-409	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 409	
L-REC-412	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 410,412	
L-REC-413	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 403,411,413	
L-REC-414	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 414,415	
L-REC-416-A	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 416	
L-REC-416-B	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 416	
L-REC-416-C	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 416	
L-REC-416-D	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 416	
L-REC-418	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 417,418,419,420	
L-REC-421	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 421	
L-REC-422-A	1	1"	2#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 422	
L-REC-422-B	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 422	
L-REC-423	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 421,423,424	
L-REC-425	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 425	
L-REC-426	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 426	
L-REC-427	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 427,428,430	
L-REC-429	1	1"	1#12, 1#12N, 1#12G	LV-PW-C	RECEPTACLE RM 429,430	
L-REC-430-A	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-B	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-C	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-D	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-E	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-F	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-G	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-H	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-I	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-J	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-K	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 430	
L-REC-430-M	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	OUTSIDE REC 430	
L-REC-432-A	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 432	
L-REC-432-B	1	1"	1#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 433	
L-REC-432-C	1	1"	2#12, 1#12N, 1#12G	LV-PW-B	RECEPTACLE RM 434	
L-SPR-400	5	1"	PULLSTRING	LV-PW-D	5FT OUTSIDE OF BUILDING	
L-SVC-400	2	3"	3#350, 1#350N	TX-PW	MCB-400	
L-WH-PW	1	1"	2#8, 1#8G	LV-PW-C	WATER HEATER RM 419	



PUBLIC WORKS ONE-LINE DIAGRAM

NOT TO SCALE

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DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

PUBLIC WORKS ONE-LINE DIAGRAM

SHEET NUMBER:

E4.15

SPRINGFIELD CITY COMPLEX
502100062-005
8/6/2024 8:44:44 AM

ISSUED FOR BIDS-AUGUST 2024

PANEL: LV-PW-A

LOCATION:

VOLTS L-L:	240 V	**MAIN OVERCURRENT:**	600 A	**BUS MATERIAL:**	COPPER	**MOUNTING:**	Surface
VOLTS L-N:	120 V	**MAIN BUS RATING:**	600 A	**NUETRAL SIZE:**	100%	**ENCLOSURE TYPE:**	Type 1
PHASE:	3	**MINIMUM AIC:**				**GROUND:**	
WIRE:	4						

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
1				933	1867								2
3	20 A	3	DR-421			933	1867			DR-425B	3	20 A	4
5								933	1867				6
7				1867	7233								8
9	20 A	3	DR-407			1867	7233			AIR-HANDLER 401	3	80 A	10
11								1867	7233				12
13				1867	3633								14
15	20 A	3	DR-425A			1867	3633			AIR-HANDLER 400	3	40 A	16
17								1867	3633				18
19				1867	23359								20
21	20 A	3	DR-426A			1867	17946			LV-PW-B	3	200 A	22
23								1867	15000				24
25				1867	15222					LV-PW-D	2	200 A	26
27	20 A	3	DR-405A			1867	12202						28
29								1867					30
31				1867									32
33	20 A	3	DR-426B			1867							34
35								1867					36
37				1867	27832					LV-PW-C	2	300 A	38
39	20 A	3	DR-405B			1867	24066						40
41								1867					42
TOTAL CONNECTED LOAD (VA) PER PHASE:				91272 VA		79070 VA		39867 VA					
TOTAL CONNECTED LOAD (AMPS) PER PHASE:				761 A		659 A		332 A					

TOTAL CONNECTED LOAD (VA): 210201 VA
TOTAL CONNECTED LOAD (AMPS): 506 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

PANEL: LV-PW-B

LOCATION:

VOLTS L-L:	240 V	**MAIN OVERCURRENT:**	200 A	**BUS MATERIAL:**	COPPER	**MOUNTING:**	Surface
VOLTS L-N:	120 V	**MAIN BUS RATING:**	200 A	**NUETRAL SIZE:**	100%	**ENCLOSURE TYPE:**	Type 1
PHASE:	3	**MINIMUM AIC:**				**GROUND:**	
WIRE:	4						

LOAD DATA:

CKT #	BKR.	POLE	Load Name	A		B		C		Load Name	POLE	BKR.	CKT #
1	20 A	1	EXTERIOR LIGHTING	110	5000					REC 430G	2	20 A	2
3	20 A	1	REC 432A			180	0						4
5	--	--	Space					0	5000	REC 430I	2	20 A	6
7					0								8
9	20 A	1	REC, 430			900							10
11	--	--	Space					0					12
13	20 A	1	REC 430K	360	5000					REC 430J	2	20 A	14
15	20 A	1	REC 432B			180	0						16
17	--	--	Space					0	5000	REC 432C	2	20 A	18
19					0								20
21	20 A	1	LTS 425, 426			1523	5000			REC 430H	2	20 A	22
23	--	--	Space					0	0				24
25	20 A	1	LTS 430	1525	5000					REC 430D	2	20 A	26
27	20 A	1	LTS 427, 428			243	0						28
29	--	--	Space					0	5000	REC 430F	2	20 A	30
31	20 A	1	REC, 430	1440	0								32
33							5000			REC 430C	2	20 A	34
35	--	--	Space					0	0				36
37					5000					REC 430M	2	20 A	38
39	20 A	2	REC 430E			5000	0						40
41								0	0	Space	--	--	42
TOTAL CONNECTED LOAD (VA) PER PHASE:				23359 VA		17946 VA		15000 VA					
TOTAL CONNECTED LOAD (AMPS) PER PHASE:				195 A		150 A		125 A					

TOTAL CONNECTED LOAD (VA): 56301 VA
TOTAL CONNECTED LOAD (AMPS): 135 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.
3. PANEL IS FOR 240/120V HIGH LEG DELTA. THE PANEL HAS BEEN SHOWN WITH THE C PHASE AS THE HIGH LEG. COORDINATE THE HIGH LEG DURING INSTALLATION AND DO NOT USE...

PANEL: LV-PW-C

LOCATION:

VOLTS L-L:	240 V	**MAIN OVERCURRENT:**	300 A	**BUS MATERIAL:**	COPPER	**MOUNTING:**	Surface
VOLTS L-N:	120 V	**MAIN BUS RATING:**	300 A	**NUETRAL SIZE:**	100%	**ENCLOSURE TYPE:**	Type 1
PHASE:	1	**MINIMUM AIC:**				**GROUND:**	
WIRE:	3						

LOAD DATA:

CKT#	BKR.	POLE	DESCRIPTION	A		B		DESCRIPTION	POLE	BKR.	CKT#
1	20 A	1	RCP-401	50 VA	180 VA			REC, 416 FRIDGE	1	20 A	2
3	20 A	1	EXIT SIGNS			120 VA	720 VA	REC, 408	1	20 A	4
5	20 A	1	LTS,401, 402, 404, 108, 409, 410, 412, 414	1459 VA	3000 VA			IT SERVER RACK	1	40 A	6
7	20 A	1	REC, 429			1080 VA	1260 VA	REC, 400, 401	1	20 A	8
9					180 VA			REC, 416 VENDING 1	1	20 A	10
11	20 A	1	REC, 402, 404			1440 VA	2097 VA	LTS 407	1	20 A	12
13	50 A	2	WATER HEATER	4500 VA							14
15						4500 VA	180 VA	REC, 422 WASHER	1	20 A	16
17	20 A	1	REC, 425	1080 VA							18
19	20 A	1	REC, 416 VENDING 2			180 VA	900 VA	SITE LIGHTING	1	20 A	20
21	20 A	1	REC, 423, 424	1260 VA	1800 VA			REC, 417, 418, 419, 420	1	20 A	22
23	20 A	1	REC, 426			1260 VA	1260 VA	REC, 414, 422	1	20 A	24
25	20 A	1	REC, 409	1260 VA							26
27	20 A	1	REC, 427, 428			1440 VA	1440 VA	REC, 416	1	20 A	28
29	20 A	1	REC, 421	1440 VA	5000 VA			DRYER	2	20 A	30
31	**20 A**	**1**	**REC, 407**			1440 VA	0 VA				**32**
33	20 A	1	REC, 410, 412	1440 VA	1150 VA			CIRCULATION FAN 11	2	20 A	34
35	20 A	2	CIRCULATION FAN 13			1150 VA	1150 VA				36
37				1150 VA	1150 VA			CIRCULATION FAN 12	2	20 A	38
39	20 A	1	REC, 403, 411, 413			1440 VA	1150 VA				40
41	20 A	1	REC, 405, 406	1800 VA							42
TOTAL CONNECTED LOAD (VA) PER PHASE:				27832 VA		24066 VA					
TOTAL CONNECTED LOAD (AMPS) PER PHASE:				232 A		201 A					

TOTAL CONNECTED LOAD (VA): 51893 VA
TOTAL CONNECTED LOAD (AMPS): 216 A
TOTAL DEMAND LOAD(VA): 40994 VA
TOTAL DEMAND LOAD (AMPS): 171 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

PANEL: LV-PW-D

LOCATION:

VOLTS L-L:	240 V	**MAIN OVERCURRENT:**	200 A	**BUS MATERIAL:**	COPPER	**MOUNTING:**	Surface
VOLTS L-N:	120 V	**MAIN BUS RATING:**	200 A	**NUETRAL SIZE:**	100%	**ENCLOSURE TYPE:**	Type 1
PHASE:	1	**MINIMUM AIC:**				**GROUND:**	
WIRE:	3						

LOAD DATA:

CKT#	BKR.	POLE	DESCRIPTION	A		B		DESCRIPTION	POLE	BKR.	CKT#
1	20 A	1	LIGHTING	1655 VA	240 VA			EXIT SIGNS	1	20 A	2
3	20 A	1	FACP-PW			500 VA	1600 VA	CIRCULATION FAN 7,9	2	20 A	4
5	20 A	1	DRYER BOOSTER PUMP RM 422	70 VA	1600 VA						6
7	20 A	2	CIRCULATION FAN 2,3			1600 VA	1600 VA	CIRCULATION FAN 8,10	2	20 A	8
9				1600 VA	1600 VA						10
11							950 VA	EXHAUST FAN, 417	2	20 A	12
13	20 A	2	EXHAUST FAN, 418	950 VA	950 VA						14
15						950 VA	275 VA	HVAC-419	2	20 A	16
17	20 A	1	DOAU-419	1800 VA	275 VA						18
19	20 A	1	EF-416			100 VA	300 VA	HVAC-415	2	20 A	20
21	20 A	1	EF-409	100 VA	300 VA						22
23	20 A	2	BRANCH SELECTORS A			100 VA	100 VA	EF-413	1	20 A	24
25				100 VA	25 VA			HVAC	2	20 A	26
27	20 A	1	EF-422			100 VA	25 VA				28
29	20 A	1	EXHAUST FAN, 406	100 VA	700 VA			EXHAUST FAN, 426	1	20 A	30
31	**20 A**	**1**	**EXHAUST FAN, 430**			700 VA	100 VA	**EF-428**	**1**	**20 A**	**32**
33	20 A	2	CIRCULATION FAN 5,6	1600 VA	50 VA			BRANCH SELECTOR B	2	20 A	34
35						1600 VA	50 VA				36
37					1600 VA			CIRCULATION FAN 1,4	2	40 A	38
39							1600 VA				40
41											42
TOTAL CONNECTED LOAD (VA) PER PHASE:				15222 VA		12202 VA					
TOTAL CONNECTED LOAD (AMPS) PER PHASE:				127 A		102 A					

TOTAL CONNECTED LOAD (VA): 27423 VA
TOTAL CONNECTED LOAD (AMPS): 114 A
TOTAL DEMAND LOAD(VA): 27423 VA
TOTAL DEMAND LOAD (AMPS): 114 A

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA.
2. PROVIDE MANUFACTURER'S STANDARD SPD.

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Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

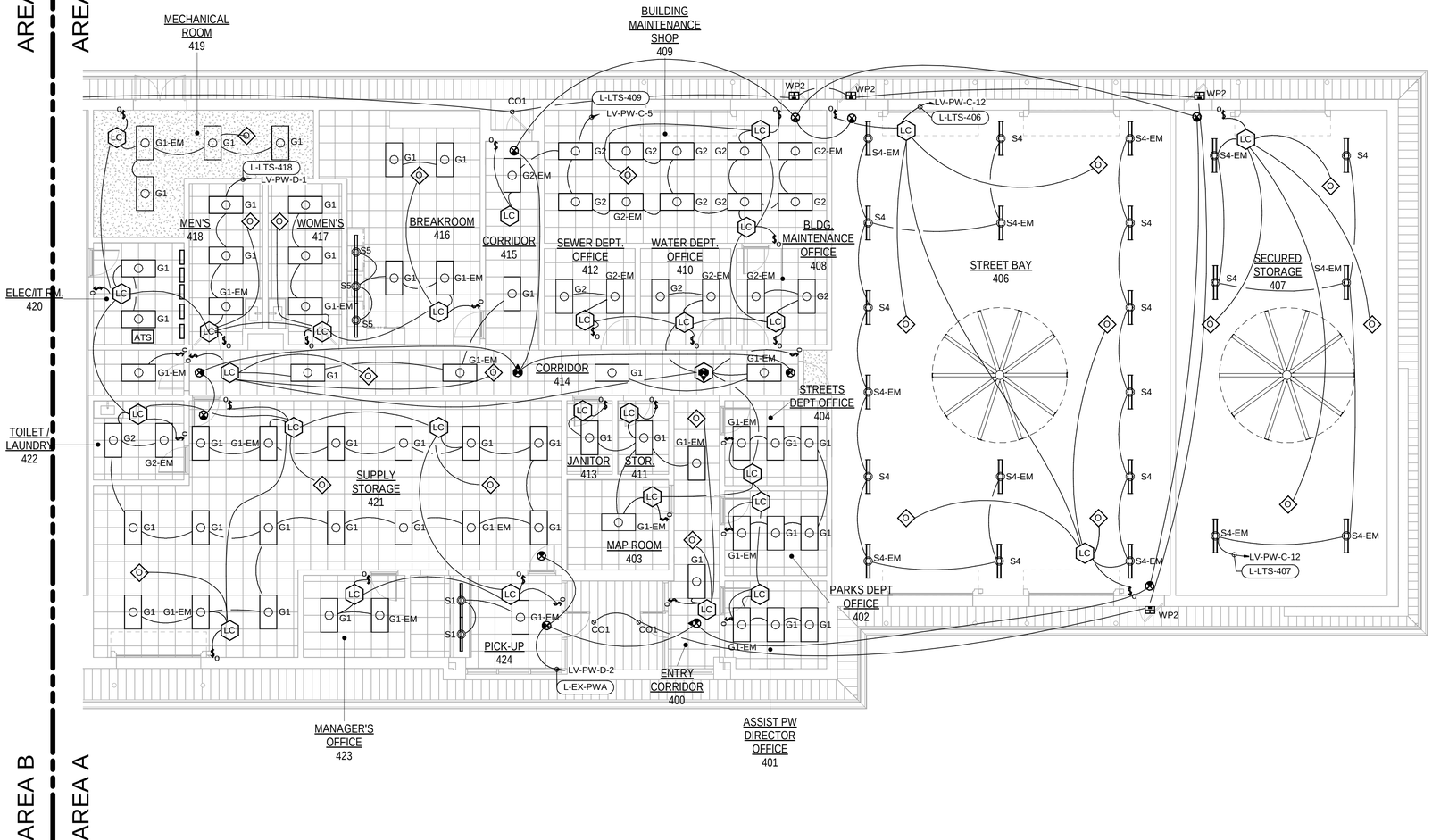
THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

ELECTRICAL SCHEDULES

SHEET NUMBER:

E4.17



1 PUBLIC WORKS LIGHTING PLAN AREA A
1/8" = 1'-0"

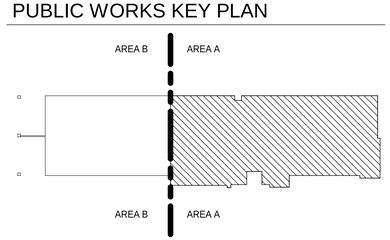
8' 4' 0' 8' 16'

GENERAL NOTES:

1. THE SENSORS AND SWITCHES SHOWN ON THESE PLANS ARE A REPRESENTATIVE DESIGN BASED ON THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION TO ILLUSTRATE THE REQUIRED LIGHTING CONTROLS OF EACH SPACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SELECTED LIGHTING EQUIPMENT MANUFACTURER'S REPRESENTATIVE TO COORDINATE REQUIRED VARIATIONS THAT MAY BE REQUIRED FOR THE SELECTED DEVICES TO FUNCTION AS REQUIRED.

KEY NOTES	
Key Value	Keynote Text

PUBLIC WORKS KEY PLAN



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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE:	5-18-2022
DESIGNED BY:	MK
DRAWN BY:	HDE
CHECKED BY:	SR
PROJECT ENGINEER:	AKG
PROJECT MANAGER:	BC
Mott MacDonald PROJECT NO:	502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

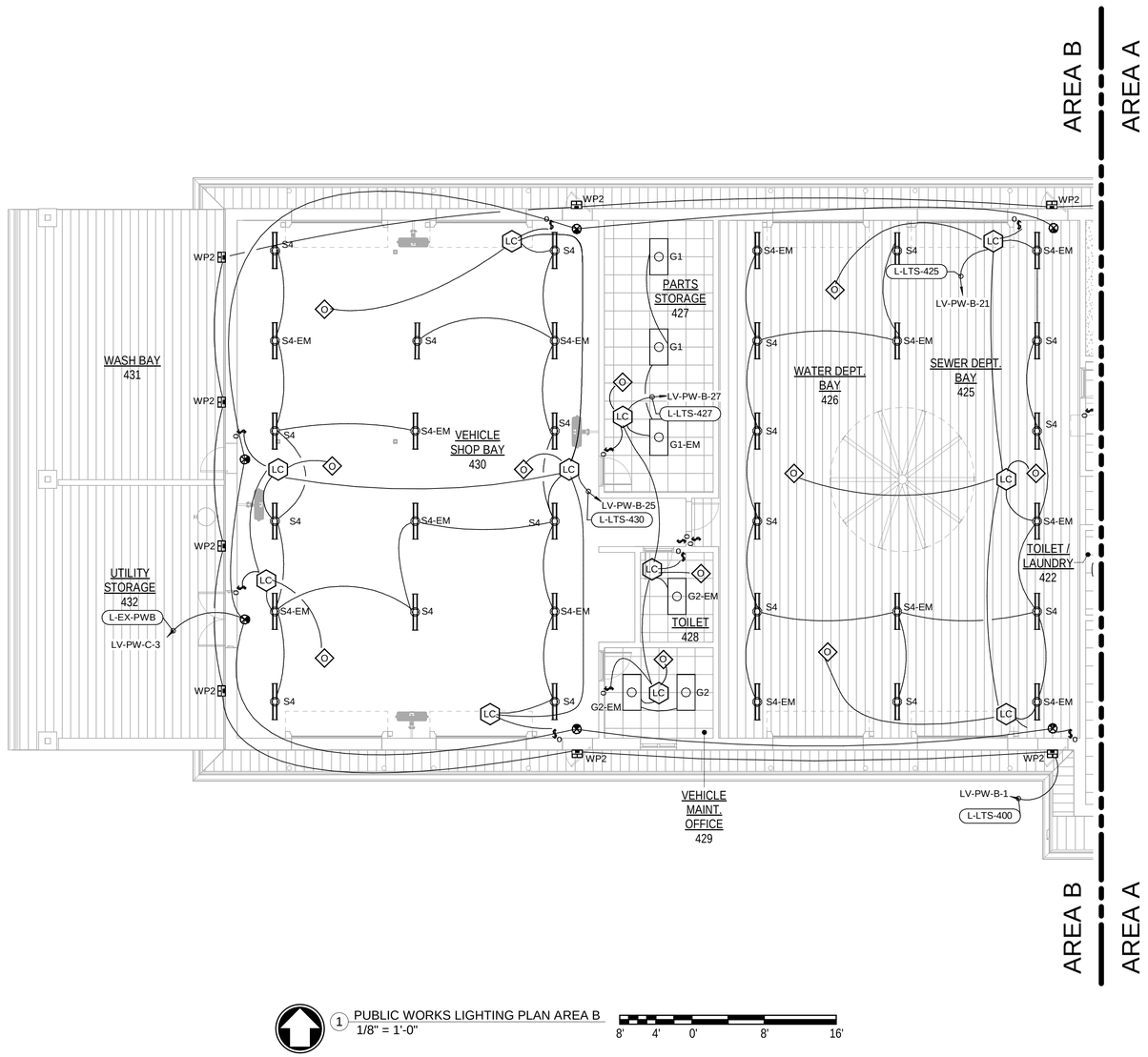
SHEET TITLE:

PUBLIC WORKS LIGHTING PLAN AREA A

SHEET NUMBER:

E4.20

ISSUED FOR BIDS-AUGUST 2024



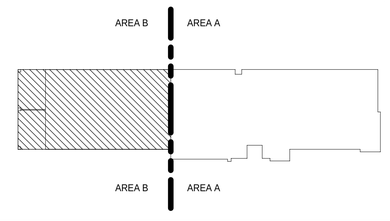
1 PUBLIC WORKS LIGHTING PLAN AREA B
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES:

1. THE SENSORS AND SWITCHES SHOWN ON THESE PLANS ARE A REPRESENTATIVE DESIGN BASED ON THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION TO ILLUSTRATE THE REQUIRED LIGHTING CONTROLS OF EACH SPACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SELECTED LIGHTING EQUIPMENT MANUFACTURER'S REPRESENTATIVE TO COORDINATE REQUIRED VARIATIONS THAT MAY BE REQUIRED FOR THE SELECTED DEVICES TO FUNCTION AS REQUIRED.

PUBLIC WORKS KEY PLAN



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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

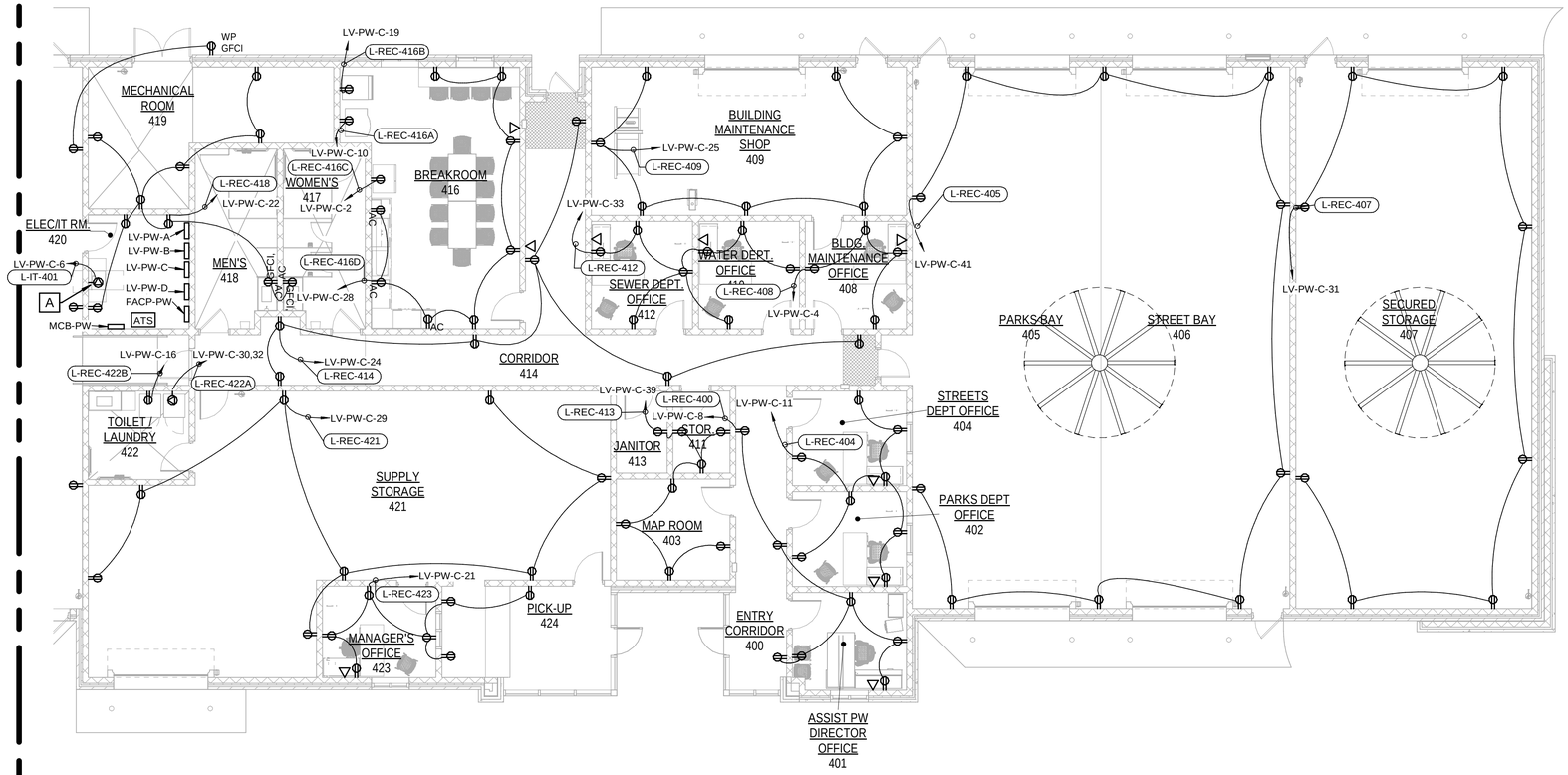
PUBLIC WORKS LIGHTING PLAN AREA B

SHEET NUMBER:

E4.21

AREA B

AREA A



1 PUBLIC WORKS POWER PLAN A
1/8" = 1'-0"

8' 4' 0' 8' 16'

AREA B

AREA A

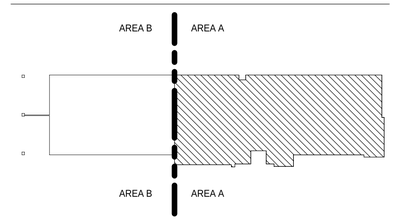
GENERAL NOTES

1. COORDINATE RECEPTACLE AND COMMUNICATION OUTLETS LOCATIONS WITH FINAL LOCATION OF DISPLAY. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
2. INSTALL ALL DATA DEVICES IN WALL BOX WITH A 1" CONDUIT IN THE FOUNDATION AND/OR WALL TO 6" ABOVE CEILNG LINE. DATA CABLE MAY BE EXPOSED FROM THERE TO NEAREST IT ROOM.
3. COMMUNICATIONS RISER AND EQUIPMENT TO BE PROVIDED BY OWNER SELECTED SPECIALTY CONTRACTOR. FOR THIS CONTRACT, INSTALL BOXES, CONDUIT TO NEAREST WALL TO ABOVE CEILING WALL DEVICES AND PLATES.

KEY NOTES:

A. INSTALL TWIST AND LOCK NEMA L5-30P PLUGS AT IT SERVER RACK.

PUBLIC WORKS KEY PLAN



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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

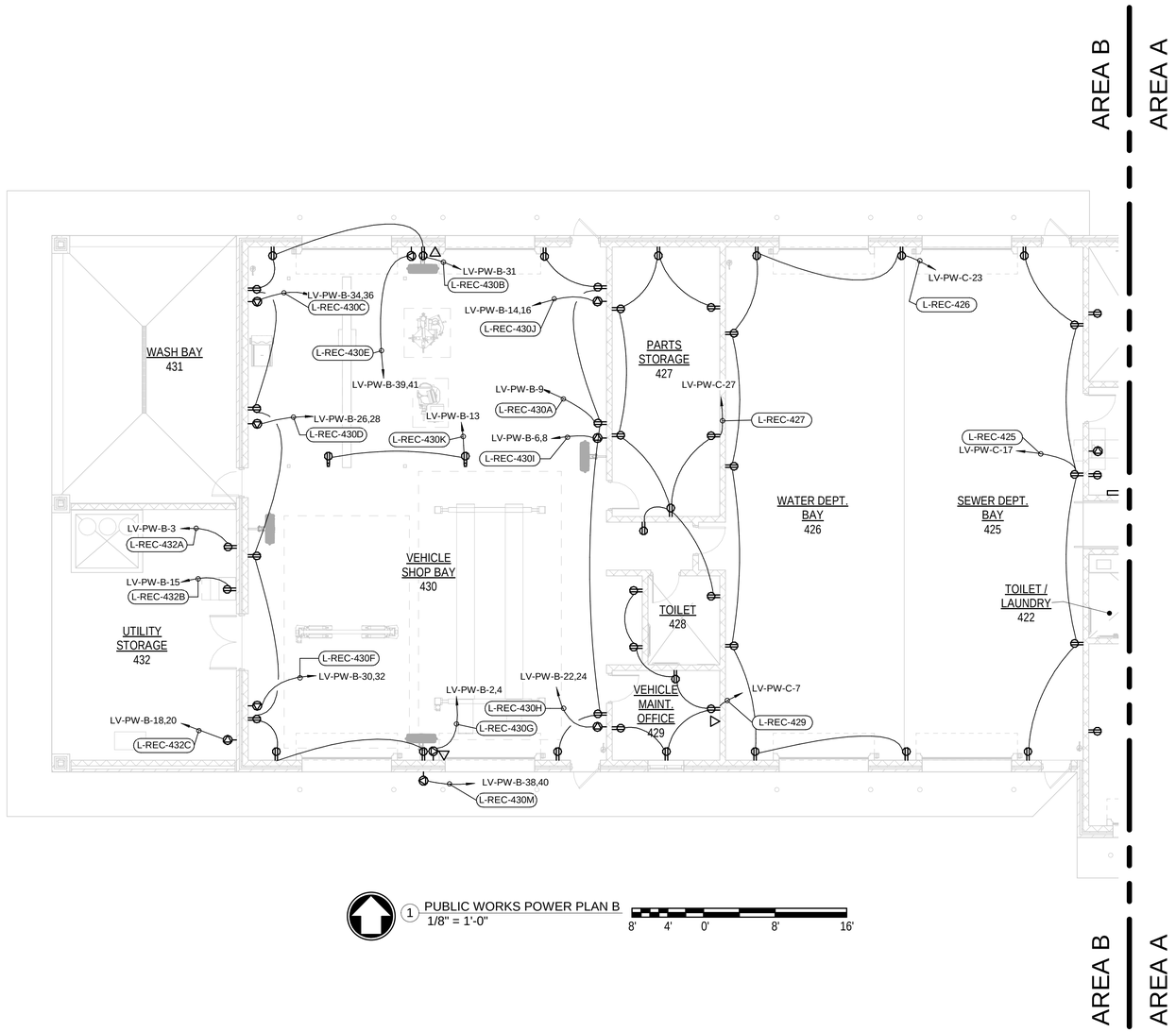
SHEET TITLE:

PUBLIC WORKS POWER PLAN A

SHEET NUMBER:

E4.30

ISSUED FOR BIDS-AUGUST 2024



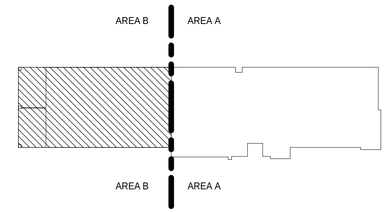
1 PUBLIC WORKS POWER PLAN B
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES

1. COORDINATE RECEPTACLE AND COMMUNICATION OUTLETS LOCATIONS WITH FINAL LOCATION OF DISPLAY. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
2. INSTALL ALL DATA DEVICES IN WALL BOX WITH A 1" CONDUIT IN THE FOUNDATION AND/OR WALL TO 6" ABOVE CEILNG LINE. DATA CABLE MAY BE EXPOSED FROM THERE TO NEAREST IT ROOM.
3. COMMUNICATIONS RISER AND EQUIPMENT TO BE PROVIDED BY OWNER SELECTED SPECIALTY CONTRACTOR. FOR THIS CONTRACT, INSTALL BOXES, CONDUIT TO NEAREST WALL TO ABOVE CEILING WALL DEVICES AND PLATES.

PUBLIC WORKS KEY PLAN



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SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV.	DESCRIPTION

DATE: 5-18-2022
DESIGNED BY: MK
DRAWN BY: HDE
CHECKED BY: SR
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:
PUBLIC WORKS POWER PLAN B

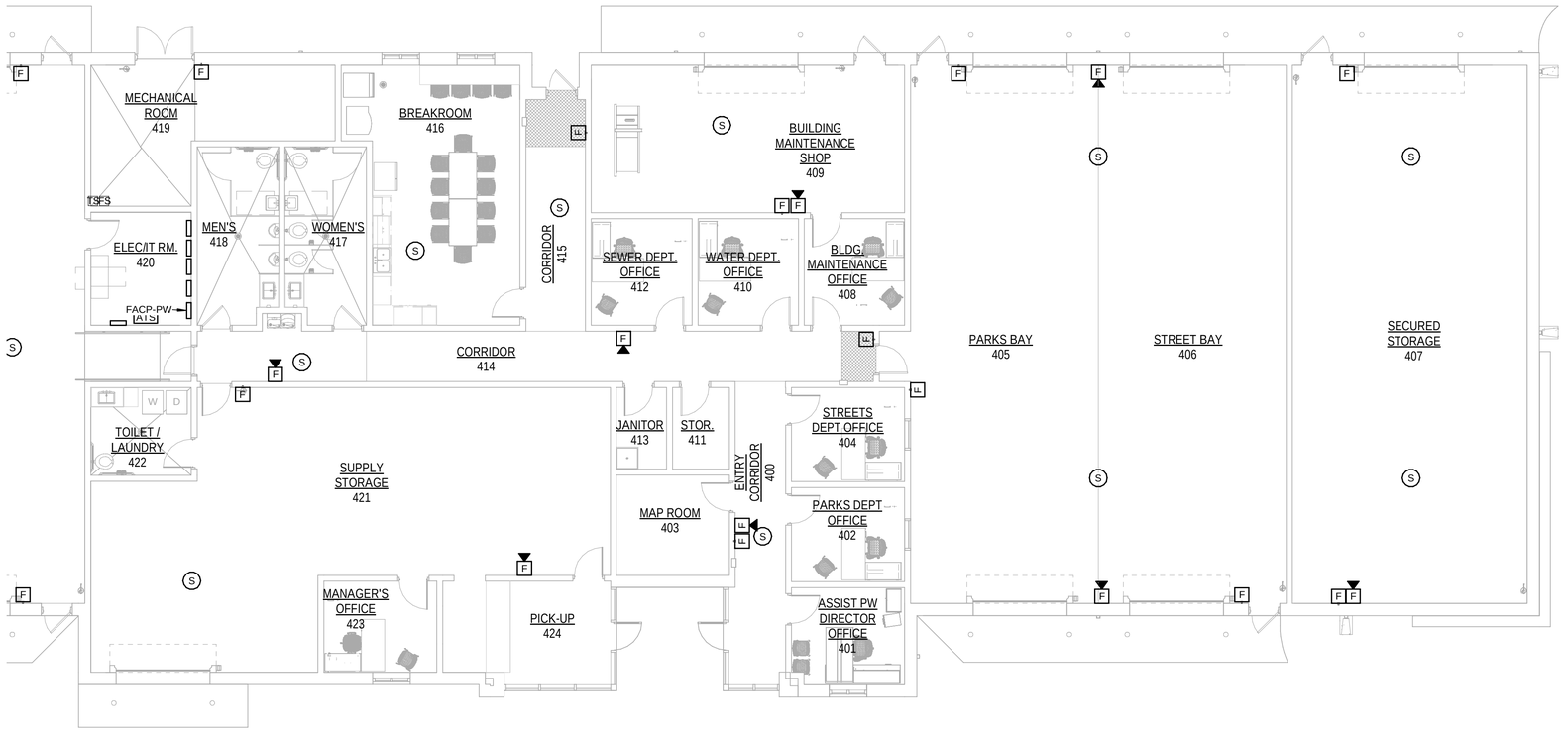
SHEET NUMBER:
E4.31

8/6/2024 8:44:57 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024

AREA B

AREA A



AREA B

AREA A

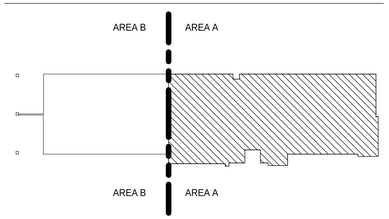
1 PUBLIC WORKS FIRE ALARM PLAN AREA A
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DETAILED FIRE ALARM DESIGN REQUIRED BY FLORIDA LAW.
2. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FIRE ALARM INSTALLATION DRAWINGS BY A FLORIDA P.E.(THE P.E. SHALL ACT AS A DELEGATE ENGINEER FOR THE DESIGN OF THE FIRE ALARM SYSTEM.)
3. THE DEVICES SHOWN ON THE PLANS REPRESENT THE MINIMUM NUMBER OF REQUIRED DEVICES.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY OPERATIONAL FIRE PROTECTION SYSTEM
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE FBC, NFPA 13, NFPA 72, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
6. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND MAKING PLAN REVISIONS AS DIRECTED AND REQUIRED.
7. CONTRACTOR TO PROVIDE 3/4"C FROM ALL FIRE ALARM DEVICES TO FIRE ALARM CONTROL PANEL WITH CONDUCTOR AS REQUIRED.
8. THE DELEGATE ENGINEER OF RECORD FOR THE FIRE ALARM SYSTEM SHALL COMPLY WITH FLORIDA STATUTE 61G15-33.006.

PUBLIC WORKS KEY PLAN



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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV.	DESCRIPTION

DATE: 5-18-2022
DESIGNED BY: SJR
DRAWN BY: HDE
CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

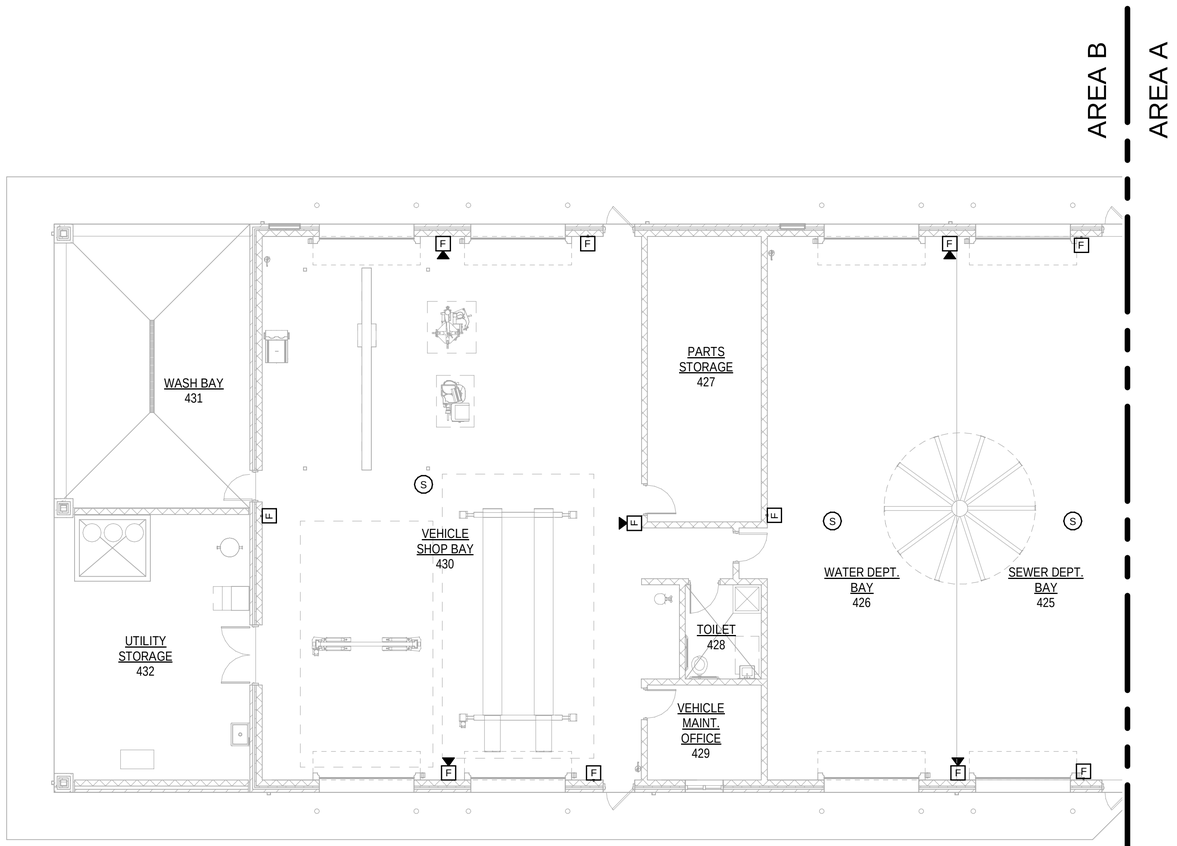
THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

PUBLIC WORKS FIRE ALARM PLAN AREA A

SHEET NUMBER:

E4.40



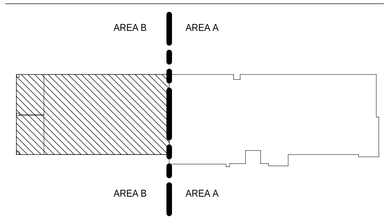
1 PUBLIC WORKS FIRE ALARM PLAN AREA B
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DETAILED FIRE ALARM DESIGN REQUIRED BY FLORIDA LAW.
2. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FIRE ALARM INSTALLATION DRAWINGS BY A FLORIDA P.E.(THE P.E. SHALL ACT AS A DELEGATE ENGINEER FOR THE DESIGN OF THE FIRE ALARM SYSTEM.)
3. THE DEVICES SHOWN ON THE PLANS REPRESENT THE MINIMUM NUMBER OF REQUIRED DEVICES.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY OPERATIONAL FIRE PROTECTION SYSTEM
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE FBC, NFPA 13, NFPA 72, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
6. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND MAKING PLAN REVISIONS AS DIRECTED AND REQUIRED.
7. CONTRACTOR TO PROVIDE 3/4"C FROM ALL FIRE ALARM DEVICES TO FIRE ALARM CONTROL PANEL WITH CONDUCTOR AS REQUIRED.
8. THE DELEGATE ENGINEER OF RECORD FOR THE FIRE ALARM SYSTEM SHALL COMPLY WITH FLORIDA STATUTE 61G15-33.006.

PUBLIC WORKS KEY PLAN



MOTT MACDONALD FLORIDA LLC
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Architects AA - C000035
Engineers EB - 0000195
Surveyors LB - 0000183
MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV.	DESCRIPTION

DATE: 5-18-2022
DESIGNED BY: SJR
DRAWN BY: HDE
CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

PUBLIC WORKS FIRE ALARM PLAN AREA B

SHEET NUMBER:

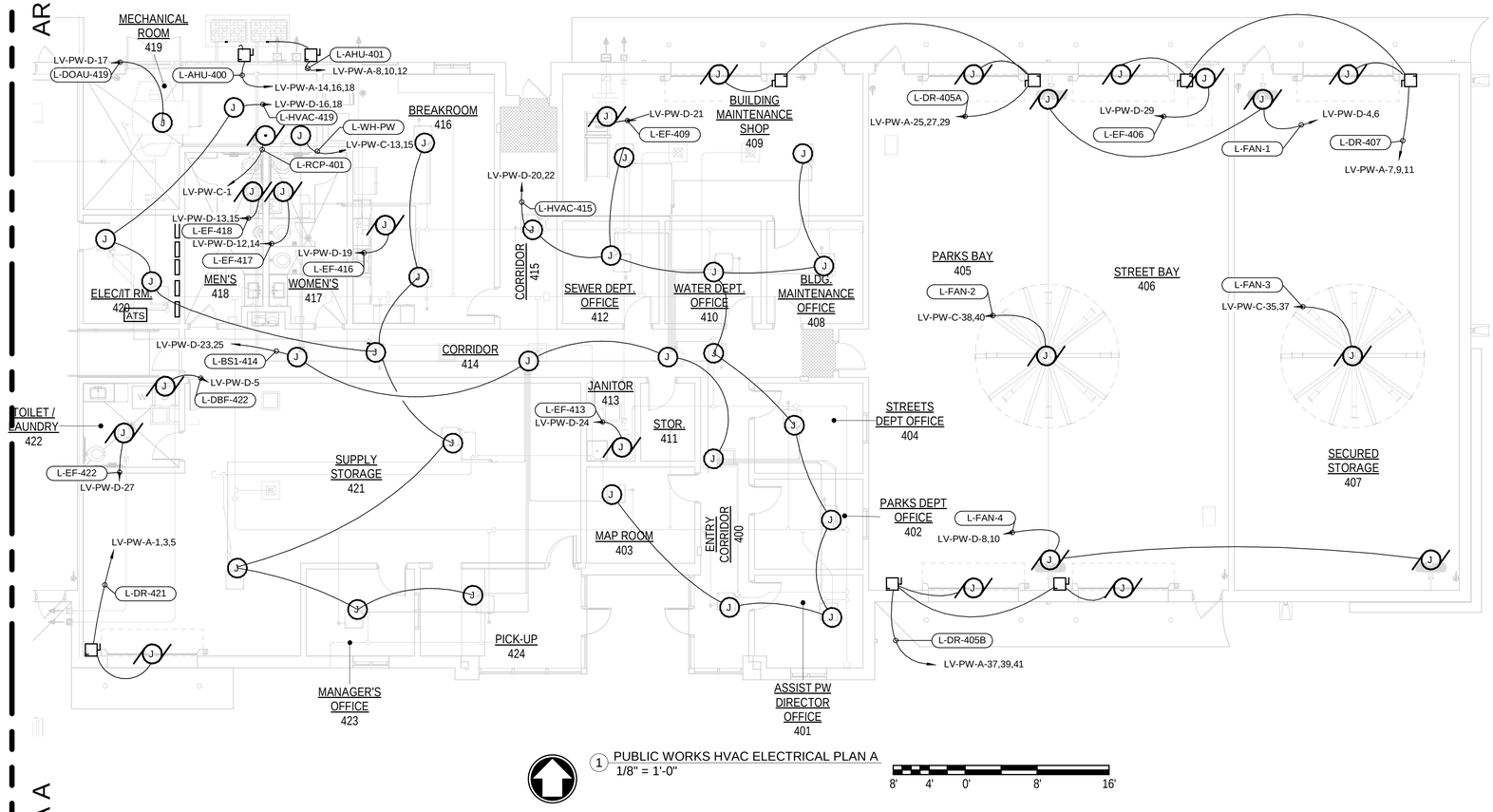
E4.41

8/6/2024 8:44:59 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024

AREA B

AREA A



1 PUBLIC WORKS HVAC ELECTRICAL PLAN A
1/8" = 1'-0"

8" 4' 0' 8' 16'

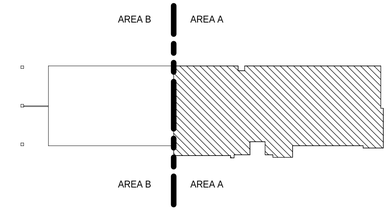
AREA B

AREA A

GENERAL NOTES:

1. ALL CONTROL WIRING FOR MENCHANICAL SHALL BE GOVERNED BY DIVISION 26 REQUIREMENTS. ALL CONTROL WIRING SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS. COORDINATE WIRING REQUIREMENTS WITH THE MANUFACTURER OF THE EQYUIPMENT AND PROVIDE CONTROL WIRING REQUIRED FOR SPECIFIED OPERATION OF THE EQUIPMENT.

PUBLIC WORKS KEY PLAN



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SPRINGFIELD CITY COMPLEX

City of Springfield
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SPRINGFIELD, FLORIDA 32401

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Mott MacDonald PROJECT NO: 502100062-005

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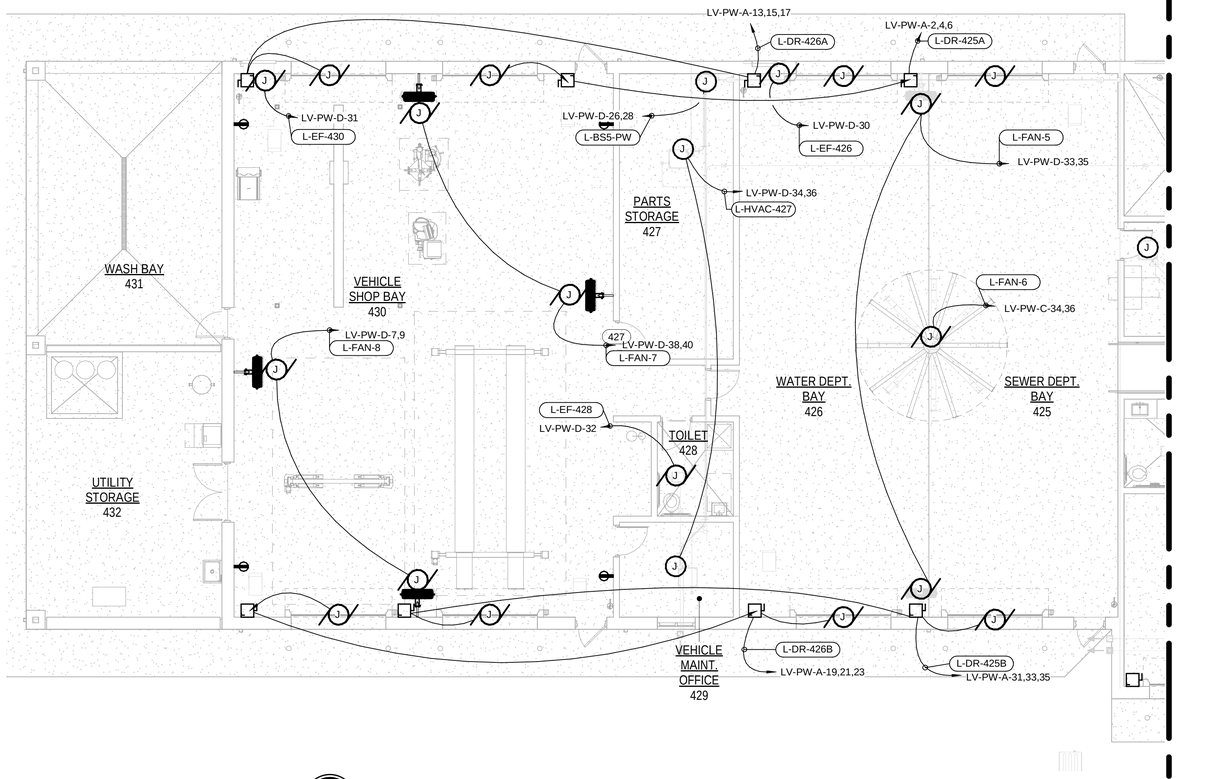
SHEET TITLE:

PUBLIC WORKS HVAC ELECTRICAL PLAN AREA A

SHEET NUMBER:

E4.50



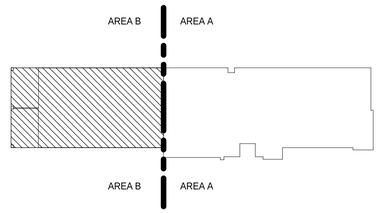
1 PUBLIC WORKS HVAC ELECTRICAL PLAN B
1/8" = 1'-0"

8' 4' 0' 8' 16'

GENERAL NOTES:

1. ALL CONTROL WIRING FOR MENCHANICAL SHALL BE GOVERNED BY DIVISION 26 REQUIREMENTS. ALL CONTROL WIRING SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS. COORDINATE WIRING REQUIREMENTS WITH THE MANUFACTURER OF THE EQYUIPMENT AND PROVIDE CONTROL WIRING REQUIRED FOR SPECIFIED OPERATION OF THE EQUIPMENT.

PUBLIC WORKS KEY PLAN



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Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DATE	REV.	DESCRIPTION

DATE: 5-18-2022
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CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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SHEET TITLE:

PUBLIC WORKS HVAC ELECTRICAL PLAN AREA B

SHEET NUMBER:

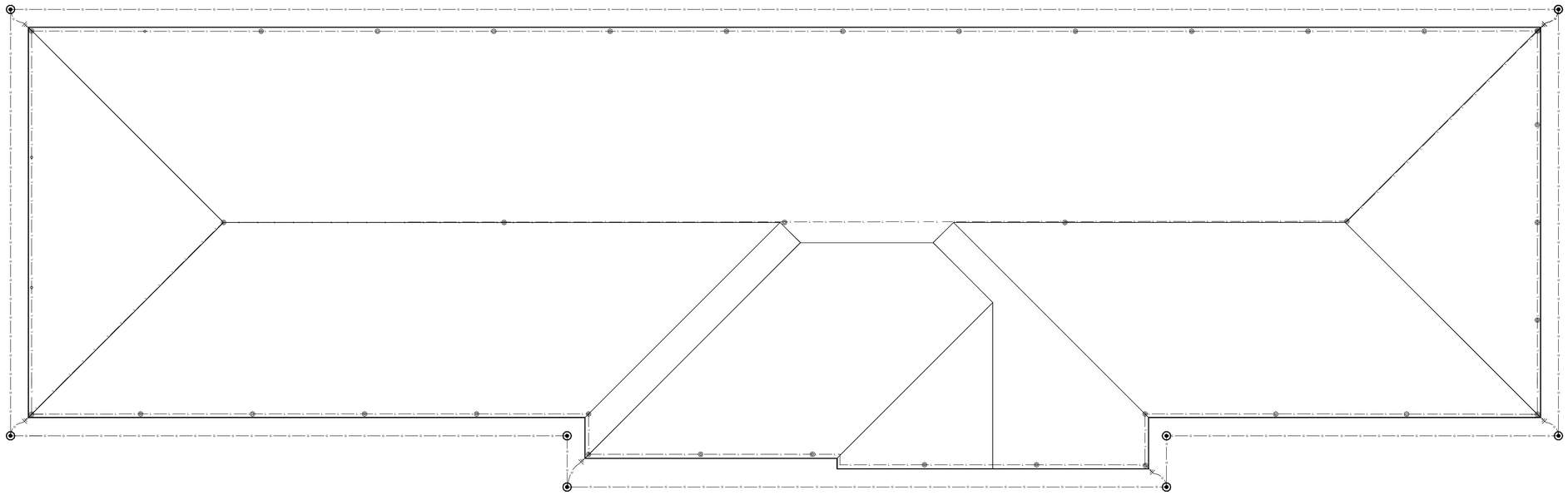
E4.51

8/6/2024 8:45:07 AM 502100062-005 SPRINGFIELD CITY COMPLEX

ISSUED FOR BIDS-AUGUST 2024

GENERAL NOTES:

1. LIGHTNING PROTECTION IS REPRESENTATIVE LAYOUT. PROVIDE FINAL DESIGN IN ACCORDANCE WITH THESE PLANS.



1 PUBLIC WORKS GROUNDING AND LIGHTNING PROTECTION PLAN
3/32" = 1'-0"

8' 4' 0' 8' 16'

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Surveyors LB - 0000783

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE:	5-18-2022
DESIGNED BY:	SJR
DRAWN BY:	HDE
CHECKED BY:	MEK
PROJECT ENGINEER:	AKG
PROJECT MANAGER:	BC
Mott MacDonald PROJECT NO:	502100962-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:

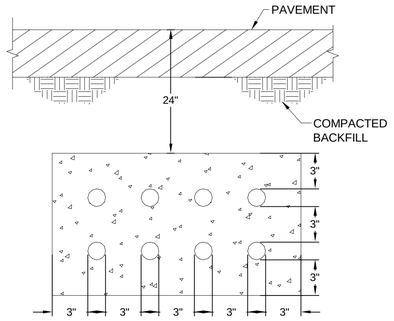
PUBLIC WORKS GROUNDING AND LIGHTNING PROTECTION PLAN

SHEET NUMBER:

E4.60

8/6/2024 8:45:07 AM 502100962-005 SPRINGFIELD CITY COMPLEX

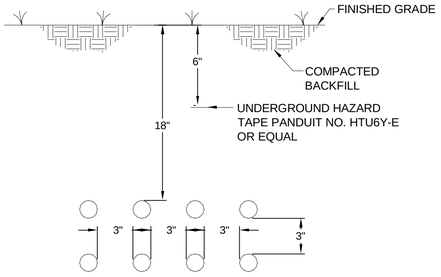
ISSUED FOR BIDS-AUGUST 2024



NOTES:

1. CONCRETE SHALL BE 3000 PSI FIBER REINFORCED (RED IN COLOR).
2. CONDUITS INSTALLED UNDERGROUND SHALL BE PROVIDED WITH CARLON "SNAP-N-STAC" COMBO SPACERS DESIGNED TO PROVIDE 3" CONDUIT SEPARATION. SPACERS SHALL BE INSTALLED PER MFG. RECOMMENDATIONS.
3. CONDUIT SEPARATION MAY BE REDUCED TO 1-1/2" WITHIN 10' OF HANDHOLE/MANHOLE PROVIDED "FLOWABLE FILL" IS USED AROUND CONDUIT FOR COMPACTION.
4. POWER AND CONTROL DUCT BANKS SHALL BE SEPARATED BY A MIN. OF 12".

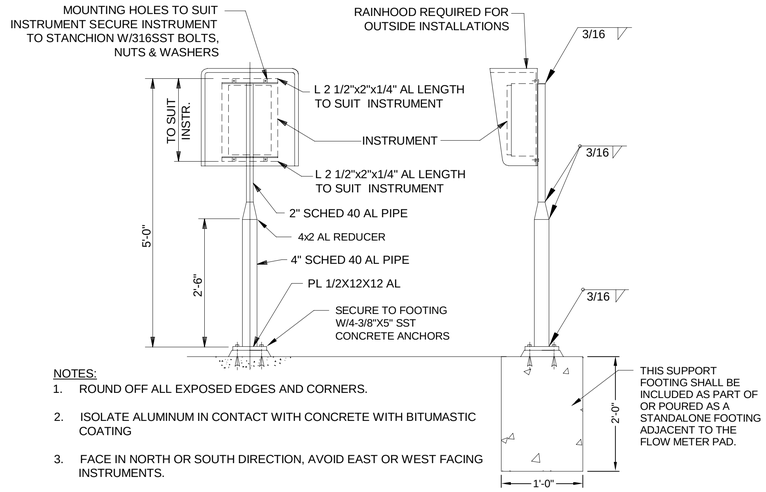
1 UNDER ROADWAY/DRIVEWAY PROTECTED CONDUIT INSTALLATION
NTS



NOTES:

1. CONDUITS INSTALLED UNDERGROUND SHALL BE PROVIDED WITH CARLON "SNAP-N-STAC" COMBO SPACERS DESIGNED TO PROVIDE 3" CONDUIT SEPARATION. SPACERS SHALL BE INSTALLED PER MFG. RECOMMENDATIONS.
2. CONDUIT SEPERATION MAY BE REDUCED TO 1-1/2" WITHIN 10' OF HANDHOLE/MANHOLE PROVIDED "FLOWABLE FILL" IS USED AROUND CONDUIT FOR COMPACTION.
3. POWER AND CONTROL DUCT BANKS SHALL BE SEPARATED BY A MIN. OF 12".

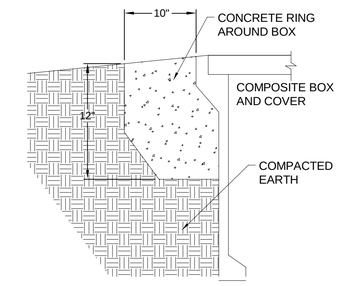
2 UNDERGROUND NON-PROTECTED CONDUIT INSTALLATION
NTS



NOTES:

1. ROUND OFF ALL EXPOSED EDGES AND CORNERS.
2. ISOLATE ALUMINUM IN CONTACT WITH CONCRETE WITH BITUMASTIC COATING
3. FACE IN NORTH OR SOUTH DIRECTION, AVOID EAST OR WEST FACING INSTRUMENTS.
4. POUR 2' X 2' X 6" STOOP IN FRONT OF INSTRUMENTS FOR MAINTENANCE.

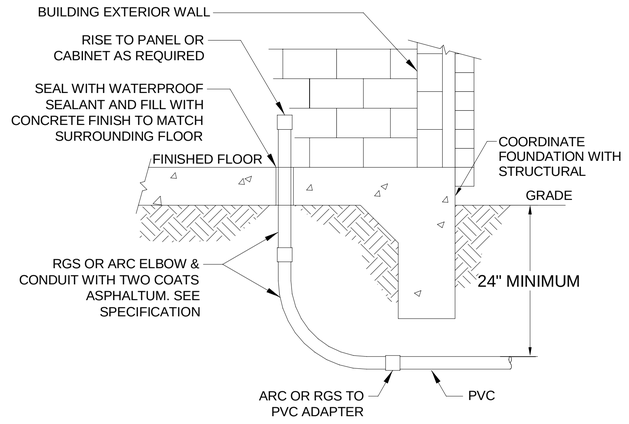
3 STANCHION SUPPORT FOR CASE MOUNTED INSTRUMENTS
NTS



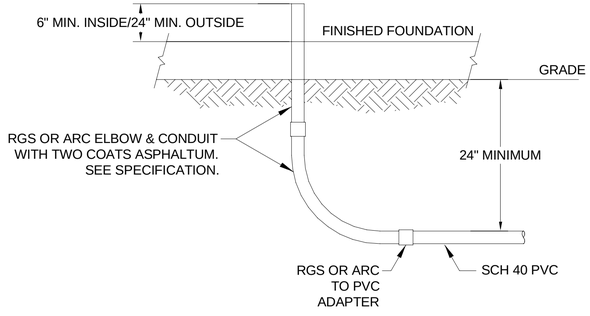
HANDHOLE NOTES:

1. CONCRETE ENCASEMENT TO BE 3,000 PSI FIBER REINFORCED.
2. HANDHOLES TO BE INSTALLED OVER 12" OF 3/4" BROKEN STONE OR GRAVEL ON COMPACTED SUBGRADE.
3. HANDHOLE SHALL BE 24"W X 24"L X 24"D MINIMUM, LARGER AS REQUIRED BY NEC. UL LISTED FOR TIER 15 HEAVY DUTY LOAD; HEAVY DUTY COVER WITH "ELECTRIC", "CONTROL" OR "TELCOM" LOGO.
4. CONDUIT SHALL BE RUN THROUGH HORIZONTALLY (STACK BOXES AS REQUIRED).

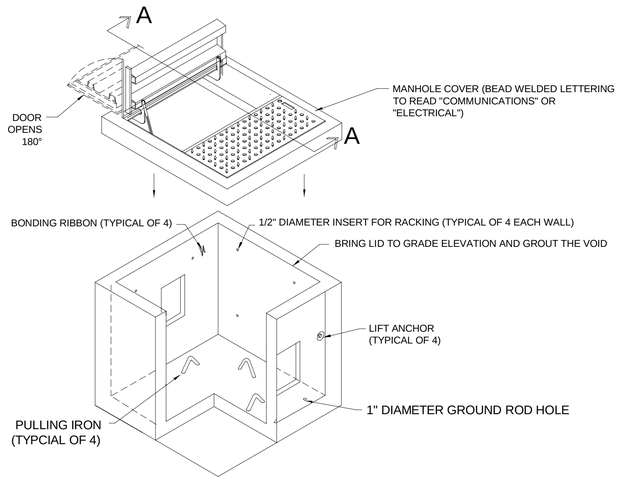
4 HANDHOLE DETAIL
NTS



5 TYPICAL CONDUIT INSTALLATION AT BUILDING DETAIL
NTS



6 TYPICAL U/G PVC CONDUIT INSTALLATION DETAIL
NTS



7 MANHOLE DETAIL
NTS

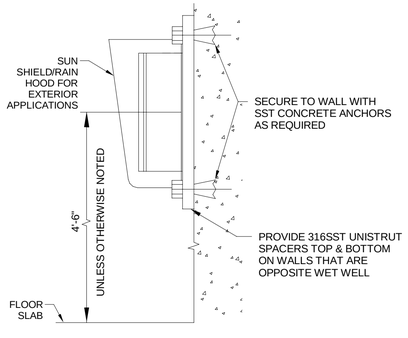
NOTES:

1. TOP ELEVATION OF MANHOLE COVER SHALL BE NO GREATER THAN 6" ABOVE FINISHED GRADE (SEE CIVIL GRADING PLAN)
2. CONTRACTOR TO SIZE MANHOLES PER NEC (MIN. SIZE 6' X 6' X 6').
3. MANHOLE SHALL BE PRECAST CONCRETE. PRECAST MFG RESPONSIBLE FOR ALL STRUCTURAL DESIGN REQUIREMENTS.
4. MANHOLE TO BE SET ON 12" OF 3/4" BROKEN STONE OR GRAVEL (COMPACT PER PRECAST MFG. REQUIREMENTS).

MANHOLE COVER SECTION A-A

COVERS SHALL HAVE FOLLOWING:

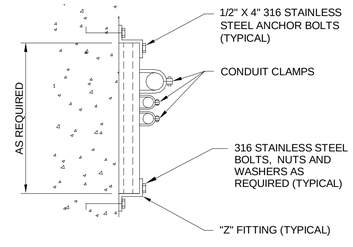
- PENTA HEAD BOLTS
- DIAMOND PLATE SLIP RESISTANT COVER
- 1" DIAMETER PICK HOLES FOR LIFTING
- BEAD WELDED LETTERING AS REQUIRED
- DIAMETER RECESSED DROP HANDLE
- HINGED DOORS
- HOT DIPPED GALVANIZING



NOTES:

1. INSTALLATION FOR CONCRETE WALL SHOWN. FOR CMU WALL USE SST TOGGLE BOLTS IN UNGROUTED CELLS AND SST WEDGE

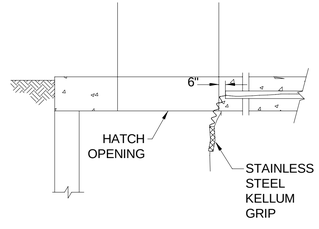
8 WALL SUPPORT FOR CASE MOUNTED
NTS



NOTES:

1. THIS DETAIL TYPICAL FOR BOTH VERTICAL AND HORIZONTAL MOUNTING.
2. CHANNEL AND ALL SUPPORT DEVICES TO BE STAINLESS STEEL.
3. CHANNEL TO BE SPACED 5' MAXIMUM.

9 WALL SUPPORT FOR CONDUIT
NTS



10 WET WELL ELECTRICAL SECTION
NTS

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MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

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PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

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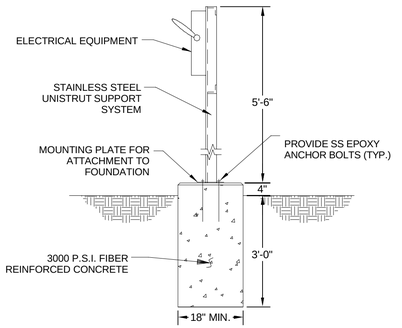
SHEET TITLE:

CONDUIT DETAILS

SHEET NUMBER:

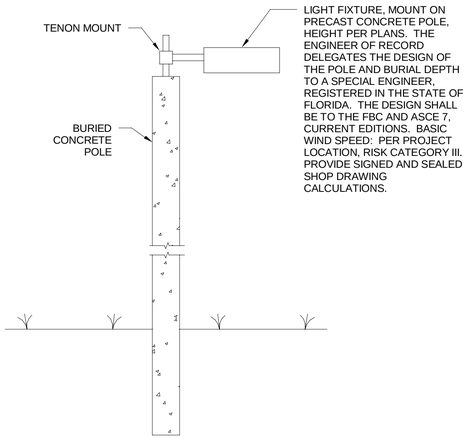
E9.01



NOTES:

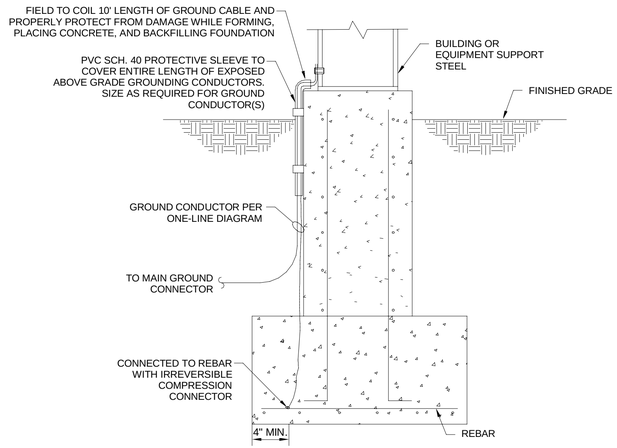
1. EQUIPMENT MOUNTING RACKS SHALL BE DESIGNED BY UNISTRUT TO WITHSTAND WIND LOAD PER STRUCTURAL PLANS WITH THE PROPOSED EQUIPMENT.

1 ELECTRICAL EQUIPMENT MOUNTING DETAIL
NTS

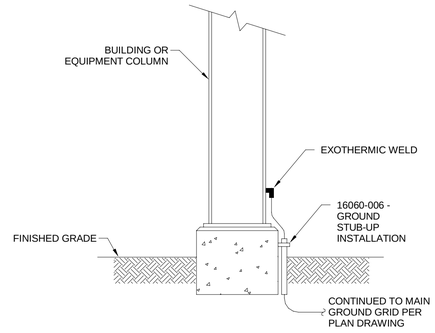


LIGHT FIXTURE, MOUNT ON PRECAST CONCRETE POLE, HEIGHT PER PLANS. THE ENGINEER OF RECORD DELEGATES THE DESIGN OF THE POLE AND BURIAL DEPTH TO A SPECIAL ENGINEER, REGISTERED IN THE STATE OF FLORIDA. THE DESIGN SHALL BE TO THE FBC AND ASCE 7, CURRENT EDITIONS. BASIC WIND SPEED: PER PROJECT LOCATION, RISK CATEGORY III. PROVIDE SIGNED AND SEALED SHOP DRAWING CALCULATIONS.

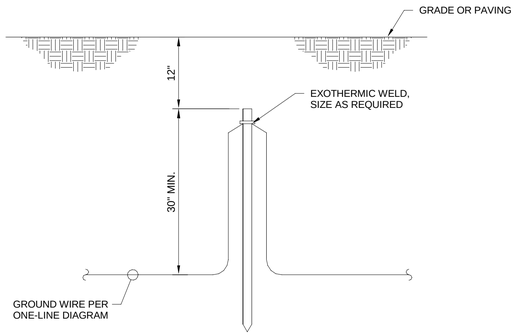
2 LIGHT POLE DETAIL
NO SCALE



3 FOUNDATION GROUNDING
NTS

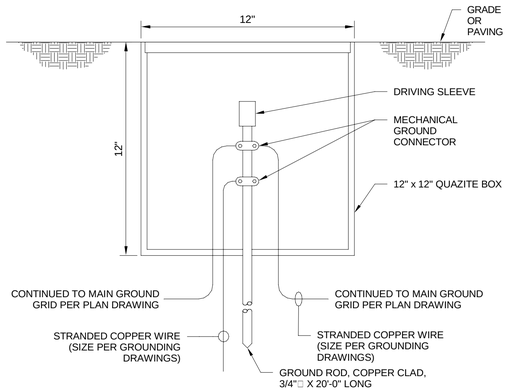


4 THERMAL GROUND FOR STRUCTURE OR BUILDING
NTS

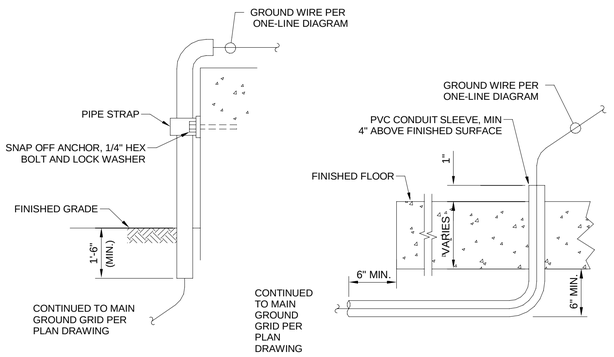


NOTE:
REFER TO SPECIFICATIONS FOR MINIMUM SYSTEM RESISTANCE TO GROUND. IF THIS RESISTANCE CANNOT BE MET WITH SINGLE 20' RODS, ADD ADDITIONAL SECTIONS TO RODS OR ADD NEW RODS AS REQUIRED SPACED WITH A DISTANCE EQUAL TO LENGTH OF GROUND ROD.

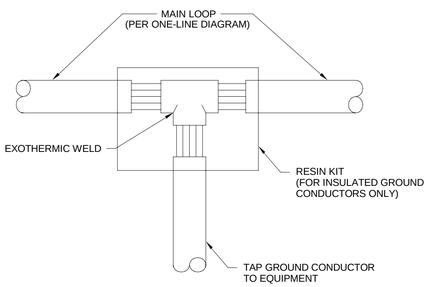
5 GROUND ROD ASSEMBLY
NTS



6 GROUND TEST WELL
NTS

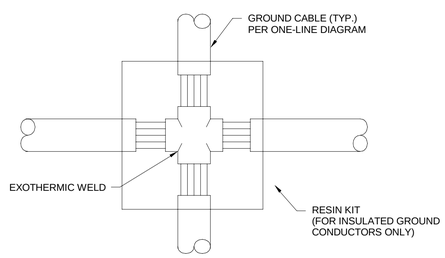


7 GROUND STUB UP INSTALLATION
NTS



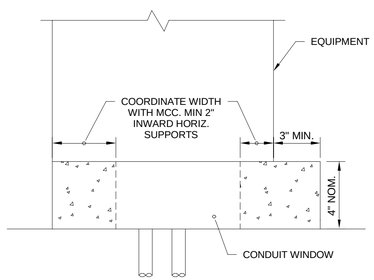
NOTE:
WHEN INSULATION IS REQUIRED PER THE ONE-LINE DIAGRAM, IT IS TO BE STRIPPED BACK ENOUGH FOR EXOTHERMIC WELD BUT NOT PAST RESIN MOLD.

8 GROUND LOOP & EQUIPMENT TAP - CADWELD
NTS

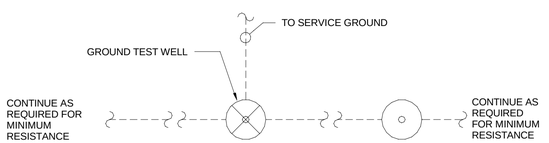


NOTE:
WHEN INSULATION IS REQUIRED PER THE ONE-LINE DIAGRAM, IT IS TO BE STRIPPED BACK ENOUGH FOR EXOTHERMIC WELD BUT NOT PAST RESIN MOLD.

9 MAIN GROUNDING LOOP 4 WAY TAP
NTS



10 FLOOR MOUNTED CONCRETE BASE
NTS



11 GROUND LOOP INSTALLATION
NTS

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Mott MacDonald PROJECT NO: 502100962-005

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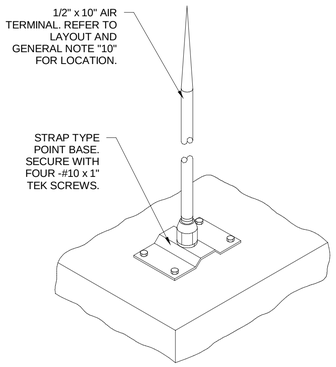
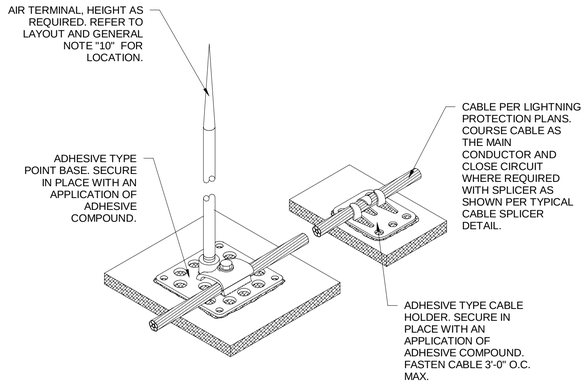
SHEET TITLE:
GROUNDING DETAILS

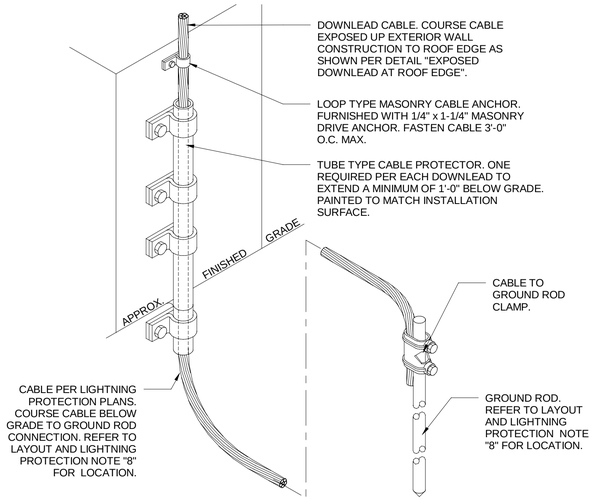
SHEET NUMBER:
E9.02



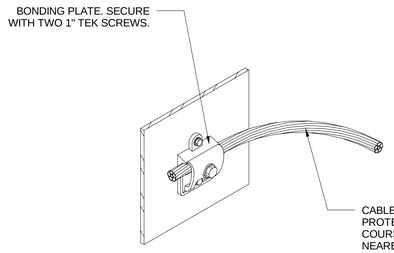
1 EQUIPMENT AIR TERMINAL
NTS



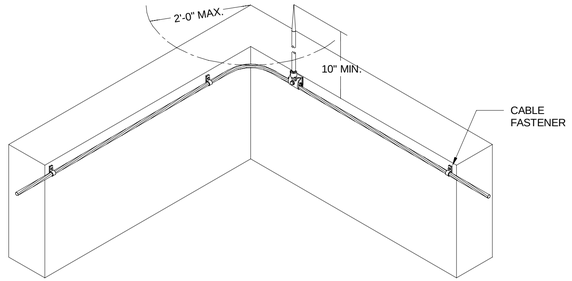
2 ADHESIVE AIR TERMINAL (PREFERRED)
NTS



3 EXPOSED DOWNLEAD TO GROUNDING CONNECTION
NTS

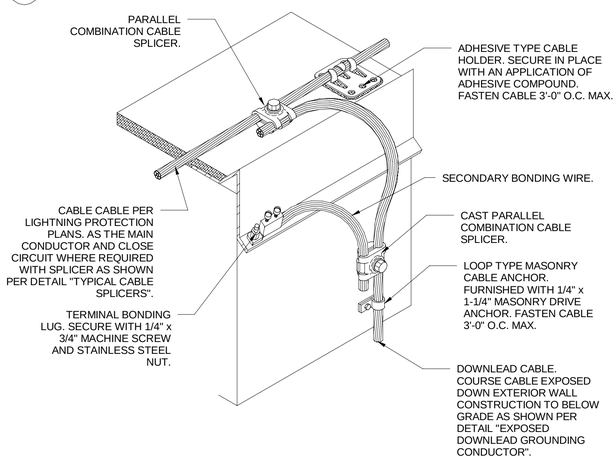


4 TYPICAL EQUIPMENT HOUSING BOND
NTS

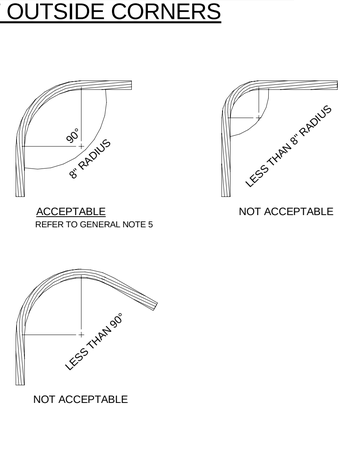


NOTE:
THIS DETAIL DEPICTS NO SPECIFIC AREA SHOWN ON THE LAYOUT. THIS DETAIL ILLUSTRATES TYPICAL AIR TERMINAL PLACEMENT FOR EITHER PARAPETS OR FLAT ROOFS.

5 TYPICAL AIR TERMINAL PLACEMENT AT OUTSIDE CORNERS
NTS



6 EXPOSED DOWNLEAD AT ROOF EDGE
NTS

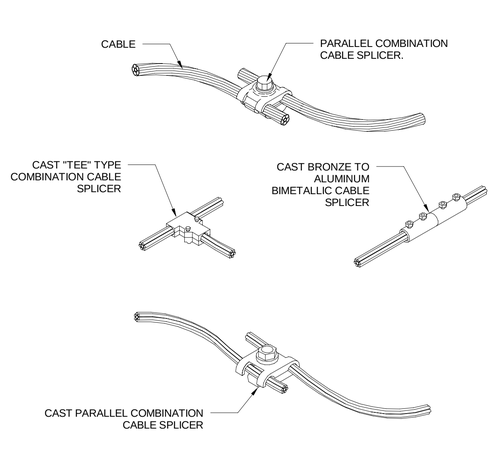


ACCEPTABLE
REFER TO GENERAL NOTE 5

NOT ACCEPTABLE

NOT ACCEPTABLE

7 TYPICAL CABLE BEND REQUIREMENTS
NTS



8 TYPICAL CABLE SPLICERS
NTS

LIGHTNING PROTECTION NOTES

1. THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HERON SHALL MEET THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES STANDARD 96A FOR MASTER LABELED LIGHTNING PROTECTION SYSTEMS. THE ACTUAL MASTER LABEL WILL BE DELIVERED UPON COMPLETION OF INSTALLATION.
2. THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN ALL RESPECTS TO LIGHTNING PROTECTION INSTITUTE STANDARD 175. THE INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER. THE COMPLETED INSTALLATION WILL RECEIVE SYSTEM CERTIFICATION SUBMITTAL FOR LPI 176.
3. LIGHTNING PROTECTION SYSTEM SHALL BE DESIGNED BY A MEMBER OF THE LIGHTNING PROTECTION INSTITUTE. SYSTEM DESIGN SHALL BE SUBMITTED FOR REVIEW & APPROVAL. DESIGN SHALL MEET THE REQUIREMENTS OF NFPA 780, CURRENT EDITION.
4. METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHING GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTING CONDUCTOR SYSTEM.
5. NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND LESS THAN 8".
6. CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FOR A TWO WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
7. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING.
8. CONNECTIONS TO GROUND ROD OR GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
9. ACTUAL JOB-SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
10. AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE.
11. MIDROOF AIR TERMINALS SHALL BE PLACED ON 50'-0" MAXIMUM SPACING.
12. BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR GROUND LOOP.
13. BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA. ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
14. FOR SAKE OF CLARITY, WE HAVE NOT LABELED EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS ON THE ROOF PLAN. WE HAVE SHOWN INSTALLATION DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN ONLY AT RANDOM LOCATIONS.
15. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
16. SEAL ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL OR LEAD WEDGE.
17. ALL CONDUIT, CONDUIT FASTENERS AND MISCELLANEOUS STEEL SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGHOUT CONSTRUCTION BY WELDING, CLIPPING, BOLTING OR OTHER APPROVED METHODS.
18. ALL REINFORCING, STRUCTURAL, FRAMING AND MISCELLANEOUS STEEL SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGHOUT CONSTRUCTION BY WELDING, CLIPPING, BOLTING OR OTHER APPROVED METHODS.
19. TELEPHONE AND/OR ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND OR WATER PIPE.
20. ALL AREAS ILLUSTRATED IN THESE SUBMITTAL DOCUMENTS WHICH HAVE NOT BEEN PROVIDED WITH LIGHTNING PROTECTION COMPONENTS ARE PROTECTED FROM HIGHER ROOFS OR STRUCTURES. THESE AREAS FALL WITHIN A "ZONE OF PROTECTION" AS ESTABLISHED BY THE CURRENT EDITION OF THE CODE FOR PROTECTION AGAINST LIGHTNING "ANSI/NFPA" AND THE INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS AS PROVIDED BY STANDARD 96A OF UNDERWRITERS' LABORATORIES.
21. ALL ADHESIVE TYPE FITTINGS SHALL BE SET IN PLACE WITH AN APPLICATION OF COMPATIBLE ROOF CEMENT OR A/C NO. P899LN ADHESIVE COMPOUND BEFORE ROOF GRAVEL IS APPLIED.
22. ARRESTERS ARE REQUIRED ON ELECTRICAL SERVICE PANEL, DATA AND TELEPHONE LINE ENTRANCES BY THE ELECTRICAL CONTRACTOR OR BY VARIOUS UTILITY AGENCIES.

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DESCRIPTION	REV.	DATE

DATE: 5-18-2022
DESIGNED BY: SJR
DRAWN BY: HDE
CHECKED BY: MEK
PROJECT ENGINEER: AKG
PROJECT MANAGER: BC
Mott MacDonald PROJECT NO: 502100062-005

THIS DRAWING IS NOT FOR CONSTRUCTION

SHEET TITLE:
LIGHTNING PROTECTION DETAILS

SHEET NUMBER:
E9.03

GENERAL FIRE PROTECTION NOTES

1. SCOPE OF FIRE SUPPRESSION WORK:

   PROVIDE AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ALL AREAS OF THE FOLLOWING BUILDINGS: CITY HALL, FIRE STATION, POLICES STATION, AND PUBLIC WORKS. PROVIDE AN AUXILIARY DRY PIPE SYSTEM AT THE POLICE STATION IN THE AREA INDICATED. THE SYSTEMS SHALL MEET THE REQUIREMENTS OF THE CONTRACT ENGINEERING DOCUMENTS, CONTRACT SPECIFICATIONS, NFPA 13, FLORIDA BUILDING CODES, FLORIDA FIRE PREVENTION CODE, AND AUTHORITY HAVING JURISDICTION.

   THE LICENSED CONTRACTOR SHALL PREPARE AND SUBMIT FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS FOR THE FIRE SPRINKLER SYSTEMS IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
   - NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION.
   - NFPA 70 NATIONAL ELECTRICAL CODE, 2020 EDITION.
   - NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2019 EDITION.
   - 2020 FLORIDA BUILDING CODES (FBC), 7TH EDITION (BUILDING, PLUMBING, & MECHANICAL)
   - FLORIDA FIRE PREVENTION CODE (FFPC), 7TH EDITION

2. WORKING DRAWINGS AND HYDRAULIC CALCULATIONS:
   - 2.1. THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO WORKING PLANS AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 CHAPTER 27.
   - 2.2. WORKING DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION (AHJ) FOR APPROVAL. WORKING DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED, REVIEWED, AND APPROVED PRIOR TO THE START OF SYSTEM INSTALLATION.
   - 2.3. REVIEW AND APPROVAL BY THE AHJ SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLIANCE WITH THE ABOVE LISTED CODES AND STANDARDS.
   - 2.4. WORKING DRAWINGS (SHOP DRAWINGS) SHALL CONFORM TO THE REQUIREMENTS PRESCRIBED IN NFPA 13 AND MUST BE NO SMALLER THAN 24"X36".
   - 2.5. WORKING DRAWING FLOOR PLANS SHALL BE DRAWN TO A SCALE NOT LESS THAN 1/8-INCH EQUALS 1-FOOT.
   - 2.6. WORKING PLANS SHALL BE COORDINATED WITH HVAC DUCTWORK, PLUMBING PIPING, LIGHTING, AND OTHER TRADES.
   - 2.7. HYDRAULIC CALCULATIONS MUST BE AS OUTLINED IN NFPA 13 EXCEPT THAT CALCULATIONS MUST BE PERFORMED BY A COMPUTER USING SOFTWARE INTENDED SPECIFICALLY FOR FIRE PROTECTION SYSTEM DESIGN USING THE DESIGN DATA SHOWN ON THE DRAWINGS.
   - 2.8. HYDRAULIC CALCULATIONS SHALL BE BASED ON THE FLOW TEST RESULTS INDICATED ON THESE DRAWINGS.
   - 2.9. HYDRAULIC CALCULATIONS MUST BE IN ACCORDANCE WITH THE AREA/DENSITY METHOD OF NFPA 13. ADD AN ALLOWANCE FOR EXTERIOR HOSE STREAMS OF 250 GPM TO THE SPRINKLER SYSTEM DEMAND AT THE FIRE HYDRANT SHOWN ON THE CIVIL DRAWINGS CLOSEST TO THE POINT WHERE THE WATER SERVICE ENTERS THE BUILDING.
3. ACCEPTANCE TESTING:
   - 3.1. AFTER COMPLETION OF INSTALLATION OF THE WET PIPE SPRINKLER SYSTEM, THE INSTALLING CONTRACTOR SHALL DO THE FOLLOWING:
     - A. NOTIFY THE AUTHORITY HAVING JURISDICTION AND THE PROPERTY OWNER OR THE PROPERTY OWNER'S AUTHORIZED REPRESENTATIVE OF THE TIME AND DATE FINAL TESTING WILL BE PERFORMED
     - B. PERFORM ALL REQUIRED ACCEPTANCE TESTS AS REQUIRED BY NFPA 13 CHAPTER 28
     - C. COMPLETE AND SIGN THE APPROPRIATE CONTRACTORS MATERIAL AND TEST CERTIFICATES AS REQUIRED BY NFPA 13 CHAPTER 28
     - D. REMOVE ALL CAPS AND STRAPS PRIOR TO PLACING THE SPRINKLER
     - E. AFTER TESTING, IF ANY COMPONENT WAS FOUND TO BE DEFECTIVE OR NON-COMPLIANT WITH CONTRACT REQUIREMENTS, PERFORM CORRECTIVE ACTIONS AND REPEAT THE TESTS. TESTS MUST BE CONDUCTED AND REPEATED AS NECESSARY UNTIL THE SYSTEM HAS BEEN DEMONSTRATED TO COMPLY WITH ALL CONTRACT REQUIREMENTS.

4. CLASSIFICATION OF HAZARD PER NFPA 13 FOR EACH SPACE IS SHOWN ON FLOOR PLANS FOR EACH BUILDING.

5. PROVIDE GALVANIZED PIPE HANGERS AND SUPPORTS IN ACCORDANCE WITH NFPA 13 CHAPTER 17.

6. CUTTING STRUCTURAL MEMBERS FOR PASSAGE OF PIPES OR FOR PIPE-HANGER FASTENINGS WILL NOT BE PERMITTED. PIPES THAT MUST PENETRATE CONCRETE OR MASONRY WALLS OR CONCRETE FLOORS MUST BE CORE-DRILLED AND PROVIDED WITH PIPE SLEEVES. EACH SLEEVE MUST BE SCHEDULE 40 GALVANIZED STEEL, DUCTILE-IRON OR CAST-IRON PIPE AND EXTEND THROUGH ITS RESPECTIVE WALL OR FLOOR AND BE CUT FLUSH WITH EACH WALL SURFACE. SLEEVES MUST PROVIDE REQUIRED CLEARANCE BETWEEN THE PIPE AND THE SLEEVE PER NFPA 13. THE SPACE BETWEEN THE SLEEVE AND THE PIPE MUST BE FIRMLY PACKED WITH MINERAL WOOL INSULATION. WHERE PIPES AND SLEEVES PENETRATE FIRE RESISTANCE RATED WALL ASSEMBLIES, THE PIPING AND SLEEVE MUST BE FIRESTOPPED WITH A LISTED FIRESTOP SYSTEM.

7. THE FIRE PROTECTION WATER SUPPLY POINT-OF-SERVICE IS THE UPSTREAM SIDE OF THE BACKFLOW PREVENTOR. THE LOCATION OF THE BACKFLOW PREVENTOR IS SHOWN ON THE CIVIL PLANS.

8. PROTECT ALL EQUIPMENT DELIVERED AND PLACED IN STORAGE FROM THE WEATHER, EXCESSIVE HUMIDITY AND TEMPERATURE VARIATIONS, DIRT AND DUST, OR OTHER CONTAMINANTS. ALL PIPES MUST BE EITHER CAPPED OR PLUGGED UNTIL INSTALLED.

9. SPARE SPRINKLERS AND WRENCH(ES) MUST BE PROVIDED AS SPARE PARTS IN ACCORDANCE WITH NFPA 13.

10. PROVIDE MATERIALS, EQUIPMENT, AND DEVICES LISTED FOR FIRE PROTECTION SERVICE WHEN SO REQUIRED BY NFPA 13.

11. VALVES, FITTINGS, COUPLINGS, ALARM SWITCHES, AND SIMILAR DEVICES MUST BE RATED FOR THE MAXIMUM WORKING PRESSURES THAT CAN BE EXPERIENCED IN THE SYSTEM, BUT IN NO CASE LESS THAN 175 PSI.

12. ABOVEGROUND PIPING COMPONENTS SHALL COMPLY WITH NFPA 13. THE METHODS OF FABRICATION AND INSTALLATION OF THE ABOVEGROUND PIPING MUST FULLY COMPLY WITH THE REQUIREMENTS AND RECOMMENDED PRACTICES OF NFPA 13.

13. PROVIDE VALVES OF TYPES APPROVED FOR FIRE SERVICE. VALVES MUST OPEN BY COUNTERCLOCKWISE ROTATION.

14. LOCATE SPRINKLERS IN A CONSISTENT PATTERN WITH CEILING GRID, LIGHTS, AND AIR SUPPLY DIFFUSERS. INSTALL SPRINKLER SYSTEM OVER AND UNDER DUCTS, PIPING AND PLATFORMS WHEN SUCH EQUIPMENT CAN NEGATIVELY AFFECT OR DISRUPT THE SPRINKLER DISCHARGE PATTERN AND COVERAGE.

15. PIPING OFFSETS, FITTINGS, AND OTHER ACCESSORIES REQUIRED MUST BE FURNISHED TO PROVIDE A COMPLETE INSTALLATION AND TO ELIMINATE INTERFERENCE WITH OTHER CONSTRUCTION.

16. WHEREVER THE CONTRACTOR'S WORK INTERCONNECTS WITH WORK OF OTHER TRADES THE CONTRACTOR MUST COORDINATE WITH OTHER CONTRACTORS TO INSURE ALL CONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL NECESSARY CONNECTIONS AND EQUIPMENT.

17. INSTALL EXPOSED PIPING WITHOUT DIMINISHING EXIT ACCESS WIDTHS, CORRIDORS OR EQUIPMENT ACCESS. EXPOSED HORIZONTAL PIPING, INCLUDING DRAIN PIPING, MUST BE INSTALLED TO PROVIDE MAXIMUM HEADROOM.

18. IN AREAS WITH SUSPENDED OR DROPPED CEILINGS AND IN AREAS WITH CONCEALED SPACES ABOVE THE CEILING, PIPING MUST BE CONCEALED ABOVE CEILINGS. PIPING MUST BE INSPECTED, HYDROSTATICALLY TESTED AND APPROVED BEFORE BEING CONCEALED. RISERS AND SIMILAR VERTICAL RUNS OF PIPING IN FINISHED AREAS MUST BE CONCEALED.

19. SPRINKLERS MUST BE UNIFORMLY SPACED ON BRANCH LINES. PROVIDE COVERAGE THROUGHOUT 100 PERCENT OF THE BUILDING. COVERAGE PER SPRINKLER MUST BE IN ACCORDANCE WITH NFPA 13. PROVIDE SPRINKLERS BELOW ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13.

20. WHERE SPRINKLERS ARE INSTALLED BELOW SUSPENDED OR DROPPED CEILINGS, DROP NIPPLES MUST BE CUT SUCH THAT SPRINKLER CEILING PLATES OR ESCUTCHEONS ARE OF A UNIFORM DEPTH THROUGHOUT THE FINISHED SPACE. THE OUTLET OF THE REDUCING COUPLING MUST NOT EXTEND BELOW THE UNDERSIDE OF THE CEILING.

21. RECESSED PENDENT SPRINKLERS MUST BE INSTALLED SUCH THAT THE DISTANCE FROM THE SPRINKLER DEFLECTOR TO THE UNDERSIDE OF THE CEILING MUST NOT EXCEED THE MANUFACTURER'S LISTED RANGE AND MUST BE OF UNIFORM DEPTH THROUGHOUT THE FINISHED AREA.

22. PENDENT SPRINKLERS IN SUSPENDED CEILINGS MUST BE LOCATED IN THE CENTER OF THE TILE (PLUS OR MINUS 2 INCHES).

23. ESCUTCHEONS MUST BE PROVIDED FOR PIPE PENETRATION IN FINISHED AREAS OF CEILINGS, FLOORS AND WALLS. ESCUTCHEONS MUST BE SECURELY FASTENED TO THE PIPE AT SURFACES THROUGH WHICH PIPING PASSES.

24. THE BACKFLOW PREVENTOR FOR THE FIRE WATER SUPPLY IS SHOWN ON THE CIVIL DRAWINGS AND IS SPECIFIED BY THE CIVIL ENGINEER. THE MAXIMUM PRESSURE LOSS THROUGH THE BFP SHALL BE 8 PSI.

25. THE SYSTEM LAYOUT DESIGNER SHALL BE RESPONSIBLE FOR DESIGNING THE SPRINKLER PIPING LAYOUT TO NOT EXCEED 3PSF LOAD ON THE BUILDING STRUCTURE. ALL SPRINKLER PIPING INSIDE THE BUILDING SHALL BE 6" DIAMETER OR LESS. TRAPEZE HANGERS SHALL BE UTILIZED TO DISTRIBUTE THE LOAD BETWEEN TRUSSES TO REDUCE LOADING WHEN REQUIRED. SPRINKLER PIPING LAYOUT DRAWINGS SHALL BE PROVIDED TO THE STRUCTURAL CONTRACTOR FOR COORDINATION WITH THE STRUCTURAL SHOP DRAWINGS.

26. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO KEEP THE PREMISES DRY AT ALL TIMES AND TO PREVENT WATER DAMAGE. CONTRACTOR SHALL REPAIR WATER DAMAGE RESULTING FROM THE WORK, WHETHER INTENTIONAL OR NOT, AT NO COST TO, AND TO THE SATISFACTION OF THE OWNER.

27. DUE TO THE NEW UNDERGROUND WATER SUPPLY AND FIRE HYDRANTS BEING ADDED, THE CONTRACTOR SHALL PERFORM A HYDRANT FLOW TEST IN ACCRODANCE WITH NFPA 291 AT THE NEW HYDRANTS (SHOWN ON CIVIL PLANS) AND BASE THE AVAILABLE WATER SUPPLY FOR SPRINKLER CALCUALTIONS ON THE CONTRACTORS FLOW TEST. NOTE THE NEW COMPLEX WATER SUPPLY IS BEING PROVIDED FROM A BAY COUNTY 20" WATER MAIN. BASED ON DISCUSSION WITH BAY COUNTY, IT IS ANTICIPATED THAT THE PRESSURE IN THE 20" MAIN IS IN EXCESS OF 60PSI.

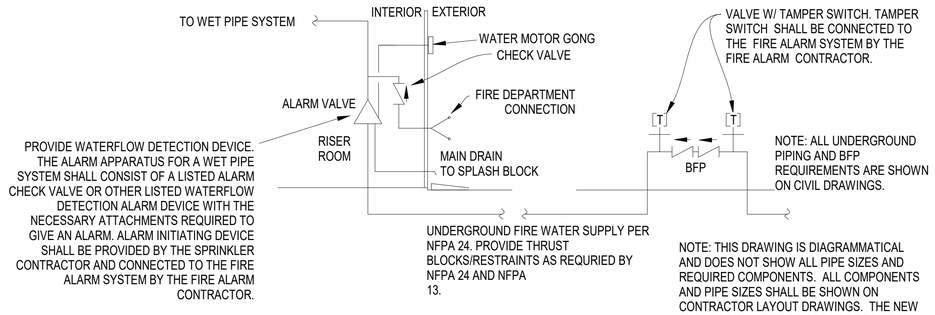
28. THE SYSTEM DEMAND SHALL BE BASED ON THE CONTRACTOR'S HYDRAULIC CALCULATIONS. PIPING SYSTEM SHALL BE LAYED OUT AS REQUIRED TO NOT REQUIRE THE USE OF A FIRE PUMP TO MEET DEMAND. THESE MEASURES TO REDUCE SYSTEM DEMAND INCLUDE BUT ARE NOT LIMITED TO, INCREASING PIPE DIAMETERS AND/OR PROVIDING A LOOPED OR GRIDDED SYSTEM.

29. CONTRACTOR SHALL PROVIDE ALL SIGNAGE AS REQUIRED PER THE CODES AND STANDARDS LISTED ON THIS SHEET. THIS INCLUDES BUT IS NOT LIMITED TO "RISER ROOM" AND "FDC" SIGNS.

30. THE WATER PURVEYOR WAS CONTACTED AND INDICATED THAT THERE IS NO KNOWN ISSUES WITH MICROBIAL INDUCED CORROSION (MIC) IN THE WATER SUPPLY NEAR THE NEW FACILITIES. NO MIC CORRECTIVE MEASURES HAVE BEEN DESIGNED INTO THE PROJECT SINCE THERE IS NO RECORD OF MIC CORROSION IN THE WATER SUPPLY. NOTE, THE SYSTEM IS REQUIRED TO HAVE MEANS FOR AIR VENTING PER NFPA 13.

31. SPRINKLERS SUBJECT TO MECHANICAL INJURY SHALL BE PROTECTED WITH LISTED GUARDS PER NFPA 13. AREAS WHERE SRINKLERS ARE SUBJET TO MECHANICAL INJURY INCLUDES BUT IS NOT LIMITED TOO JANITOR ROOMS, STORAGE AREAS, MECHANICAL ROOMS, AND WASH BAY.

32. QUICK RESPONSE TYPE SPRINKLERS SHALL BE USED THROUGHOUT THE FACILITY.



TYPICAL FIRE RISER DIAGRAM

NOT TO SCALE

NOTE: THIS DRAWING IS DIAGRAMMATICAL AND DOES NOT SHOW ALL PIPE SIZES AND REQUIRED COMPONENTS. ALL COMPONENTS AND PIPE SIZES SHALL BE SHOWN ON CONTRACTOR LAYOUT DRAWINGS. THE NEW SYSTEM SHALL BE PROVIDED AS REQUIRED TO COMPLY WITH CODES AND STANDARDS LISTED ON THE GENERAL FIRE PROTECTION NOTES ON THIS SHEET.

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DESCRIPTION	DATE	REV.

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DESIGNED BY: E. KIMMIG
DRAWN BY: E. KIMMIG
CHECKED BY: G. PETERSON
PROJECT ARCHITECT:
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO:

This drawing is part of a Digitally Signed and Sealed set of drawings. In accordance with 61G1-16.005 and 61G15-23.004, F.A.C. Printed copies of this drawing are not considered signed and sealed and all signatures must be verified on any electronic copies.

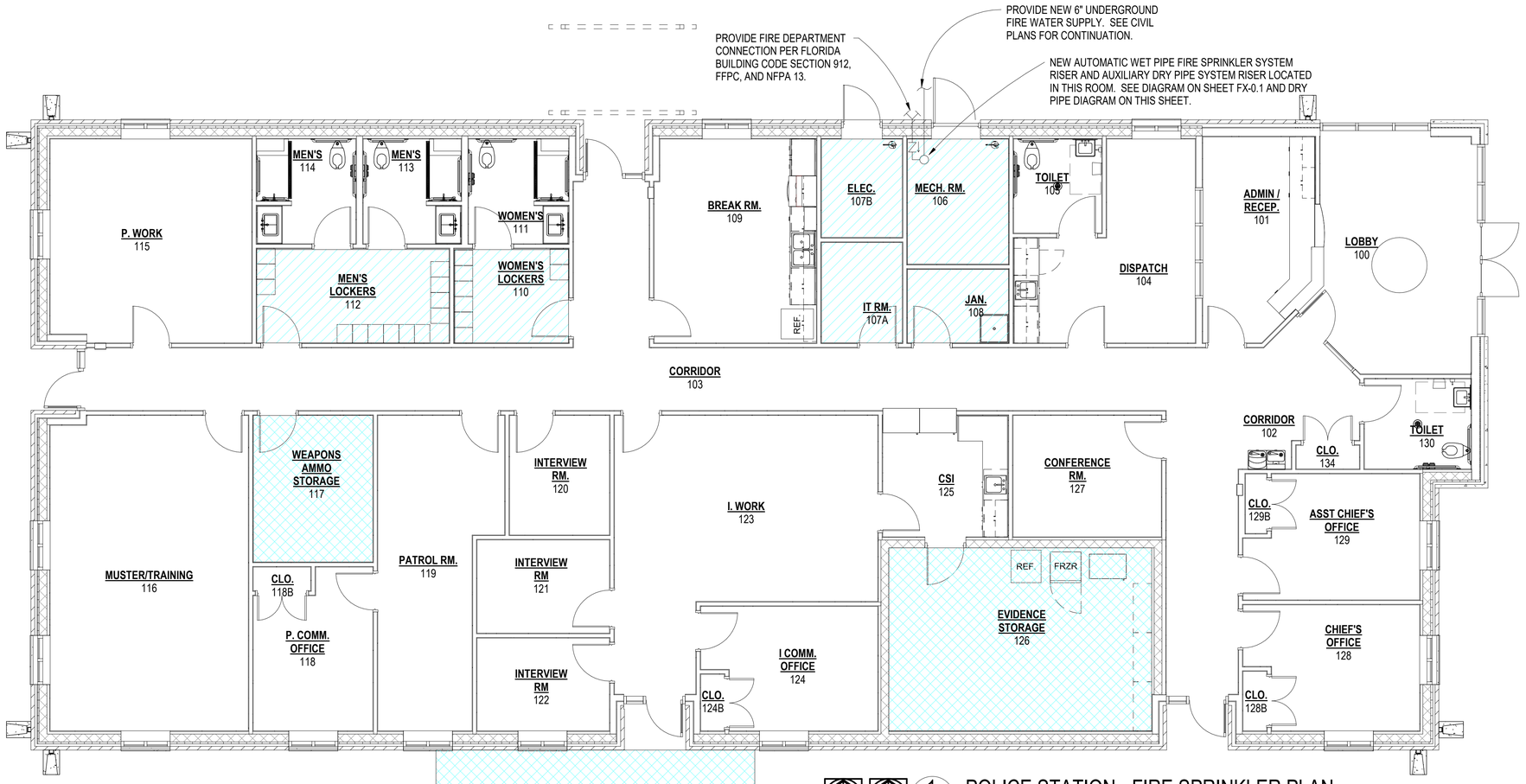
SHEET TITLE:

FIRE SPRINKLER GENERAL NOTES AND RISER DIAGRAM

SHEET NUMBER:

FX-0.1

ISSUED FOR BID



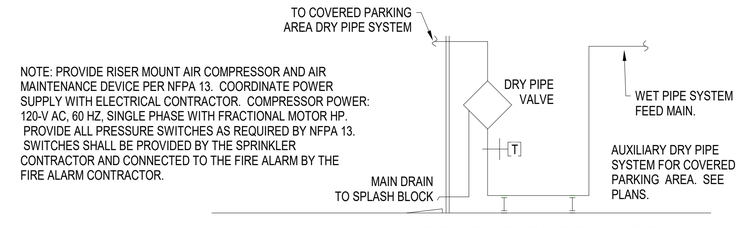
1 FX-1.1 POLICE STATION - FIRE SPRINKLER PLAN

3/16" = 1'-0"

TRUE NORTH PROJECT NORTH

PROVIDE AND INSTALL AUXILIARY DRY PIPE SPRINKLER SYSTEM TO PROVIDE COVERAGE FOR COVERED PARKING AREA.

FF



NOTE: PROVIDE RISER MOUNT AIR COMPRESSOR AND AIR MAINTENANCE DEVICE PER NFPA 13. COORDINATE POWER SUPPLY WITH ELECTRICAL CONTRACTOR. COMPRESSOR POWER: 120-V AC, 60 HZ, SINGLE PHASE WITH FRACTIONAL MOTOR HP. PROVIDE ALL PRESSURE SWITCHES AS REQUIRED BY NFPA 13. SWITCHES SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR AND CONNECTED TO THE FIRE ALARM BY THE FIRE ALARM CONTRACTOR.

AUXILIARY DRY PIPE RISER DIAGRAM

DESIGN APPROACH

1. PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. HYDRAULICALLY DESIGN THE SYSTEM TO DISCHARGE A MINIMUM DENSITY AS INDICATED ON THIS DRAWING IN ACCORDANCE WITH THE DENSITY/AREA METHOD NFPA 13 CHAPTER 19. ALL SPRINKLERS FOR THE WET PIPE SYSTEM SHALL HAVE AN ORDINARY TEMPERATURE RATING EXCEPT AS OTHERWISE REQUIRED BY NFPA 13 OR THE FLORIDA FIRE PREVENTION CODE. QUICK RESPONSE TYPE SPRINKLERS SHALL BE USED THROUGHOUT THE FACILITY. A HOSE STREAM ALLOWANCE OF 250 GPM SHALL BE PROVIDED. THE WATER SUPPLY DURATION SHALL BE 90 MINUTES.

2. PROVIDE A DRY PIPE SPRINKLER SYSTEM IN THE EXTERIOR COVERED PARKING AREA IN ACCORDANCE WITH NFPA 13. THE DRY PIPE SYSTEM SHALL BE AUXILIARY TO THE WET PIPE SYSTEM AS PERMITTED BY NFPA 13. HYDRAULICALLY DESIGN THE SYSTEM TO DISCHARGE A MINIMUM DENSITY AS INDICATED ON THIS DRAWING IN ACCORDANCE WITH THE DENSITY/AREA METHOD NFPA 13 CHAPTER 19

NFPA-13 LIGHT HAZARD
DENSITY: 0.1 GPM/FT² OVER 1,500 FT²

NFPA-13 ORDINARY HAZARD GROUP I
DENSITY: 0.15 GPM/FT² OVER 1,500 FT²

NFPA-13 ORDINARY HAZARD GROUP II
DENSITY: 0.2 GPM/FT² OVER 1,500 FT²

SHEET NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE WET PIPE FIRE SPRINKLER SYSTEM TO PROVIDE COVERAGE THROUGHOUT THE ENTIRE FACILITY. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 13, FLORIDA BUILDING CODE, FLORIDA FIRE PREVENTION CODE, AND THE AUTHORITY HAVING JURISDICTION. THE SYSTEM SHALL BE COMPLETE TO PROVIDE ALL NECESSARY EQUIPMENT TO SERVE THE ENTIRE BUILDING.

2. THE POLICE STATION IS ASSIGNED SEISMIC DESIGN CATEGORY C. FIRE SPRINKLER CONTRACTOR SHALL DESIGN AND INSTALL SEISMIC PROTECTION IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 CHAPTER 18 INSTALLATION REQUIREMENTS FOR SEISMIC PROTECTION .

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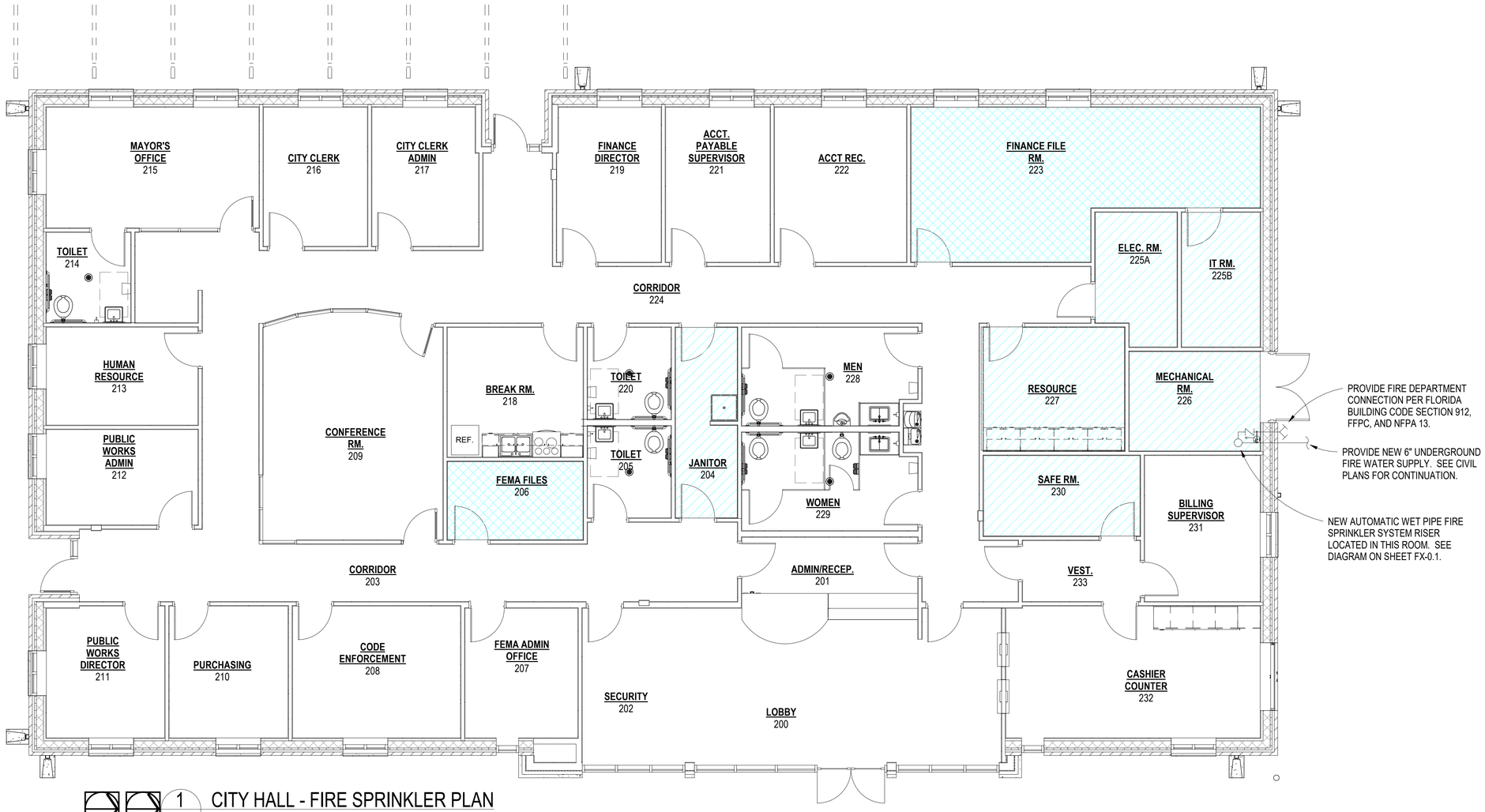
SHEET TITLE:

POLICE STATION - FIRE SPRINKLER PLAN

SHEET NUMBER:

FX-1.1

ISSUED FOR BID



1 FX-2.1 CITY HALL - FIRE SPRINKLER PLAN

3/16" = 1'-0"

TRUE NORTH PROJECT NORTH

DESIGN APPROACH

PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. HYDRAULICALLY DESIGN THE SYSTEM TO DISCHARGE A MINIMUM DENSITY AS INDICATED ON THIS DRAWING IN ACCORDANCE WITH THE DENSITY/AREA METHOD NFPA 13 CHAPTER 19. ALL SPRINKLERS FOR THE WET PIPE SYSTEM SHALL HAVE AN ORDINARY TEMPERATURE RATING EXCEPT AS OTHERWISE REQUIRED BY NFPA 13 OR THE FLORIDA FIRE PREVENTION CODE. QUICK RESPONSE TYPE SPRINKLERS SHALL BE USED THROUGHOUT THE FACILITY. A HOSE STREAM ALLOWANCE OF 250 GPM SHALL BE PROVIDED. THE WATER SUPPLY DURATION SHALL BE 90 MINUTES.

NFPA-13 LIGHT HAZARD
DENSITY: 0.1 GPM/FT² OVER 1,500 FT²

NFPA-13 ORDINARY HAZARD GROUP I
DENSITY: 0.15 GPM/FT² OVER 1,500 FT²

NFPA-13 ORDINARY HAZARD GROUP II
DENSITY: 0.2 GPM/FT² OVER 1,500 FT²

SHEET NOTES

CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE WET PIPE FIRE SPRINKLER SYSTEM TO PROVIDE COVERAGE THROUGHOUT THE ENTIRE FACILITY. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 13, FLORIDA BUILDING CODE, FLORIDA FIRE PREVENTION CODE, AND THE AUTHORITY HAVING JURISDICTION. THE SYSTEM SHALL BE COMPLETE TO PROVIDE ALL NECESSARY EQUIPMENT TO SERVE THE ENTIRE BUILDING.

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Telephone: (850) 785-9393
Architects AA - C000255
Engineers EB - 0000795
Surveyors LB - 0000783

MOTT MACDONALD

SPRINGFIELD CITY COMPLEX

City of Springfield
1141 TRANSMITTER RD
SPRINGFIELD, FLORIDA 32401

DESCRIPTION	DATE	REV.

DATE: OCT. 03, 2023
DESIGNED BY: E. KIMMIG
DRAWN BY: E. KIMMIG
CHECKED BY: G. PETERSON
PROJECT ARCHITECT:
PROJECT MANAGER: G. PETERSON
Mott MacDonald PROJECT NO:

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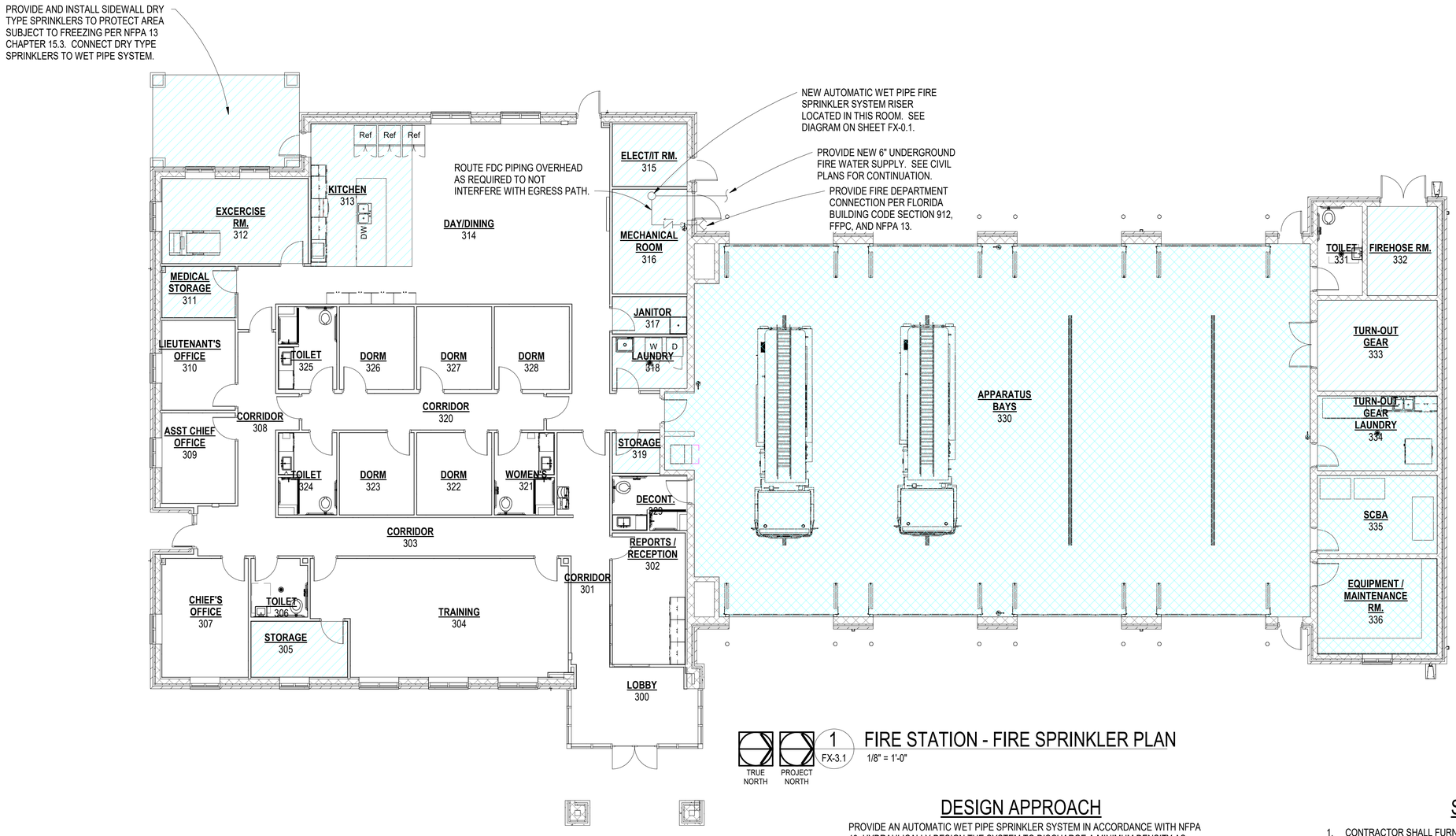
SHEET TITLE:

CITY HALL - FIRE SPRINKLER PLAN

SHEET NUMBER:

FX-2.1

ISSUED FOR BID



TRUE NORTH | PROJECT NORTH

1 FX-3.1 FIRE STATION - FIRE SPRINKLER PLAN

1/8" = 1'-0"

DESIGN APPROACH

PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. HYDRAULICALLY DESIGN THE SYSTEM TO DISCHARGE A MINIMUM DENSITY AS INDICATED ON THIS DRAWING IN ACCORDANCE WITH THE DENSITY/AREA METHOD NFPA 13 CHAPTER 19. ALL SPRINKLERS FOR THE WET PIPE SYSTEM SHALL HAVE AN ORDINARY TEMPERATURE RATING EXCEPT AS OTHERWISE REQUIRED BY NFPA 13 OR THE FLORIDA FIRE PREVENTION CODE. QUICK RESPONSE TYPE SPRINKLERS SHALL BE USED THROUGHOUT THE FACILITY. A HOSE STREAM ALLOWANCE OF 250 GPM SHALL BE PROVIDED. THE WATER SUPPLY DURATION SHALL BE 90 MINUTES.

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DENSITY: 0.15 GPM/FT² OVER 1,500 FT²

NFPA-13 ORDINARY HAZARD GROUP II
DENSITY: 0.2 GPM/FT² OVER 1,500 FT²

SHEET NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE WET PIPE FIRE SPRINKLER SYSTEM TO PROVIDE COVERAGE THROUGHOUT THE ENTIRE FACILITY. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 13, FLORIDA BUILDING CODE, FLORIDA FIRE PREVENTION CODE, AND THE AUTHORITY HAVING JURISDICTION. THE SYSTEM SHALL BE COMPLETE TO PROVIDE ALL NECESSARY EQUIPMENT TO SERVE THE ENTIRE BUILDING.

2. THE FIRE STATION IS ASSIGNED SEISMIC DESIGN CATEGORY C. FIRE SPRINKLER CONTRACTOR SHALL DESIGN AND INSTALL SEISMIC PROTECTION IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 CHAPTER 18 INSTALLATION REQUIREMENTS FOR SEISMIC PROTECTION .

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Surveyors LB - 0000783

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SHEET TITLE:

FIRE STATION - FIRE SPRINKLER PLAN

SHEET NUMBER:

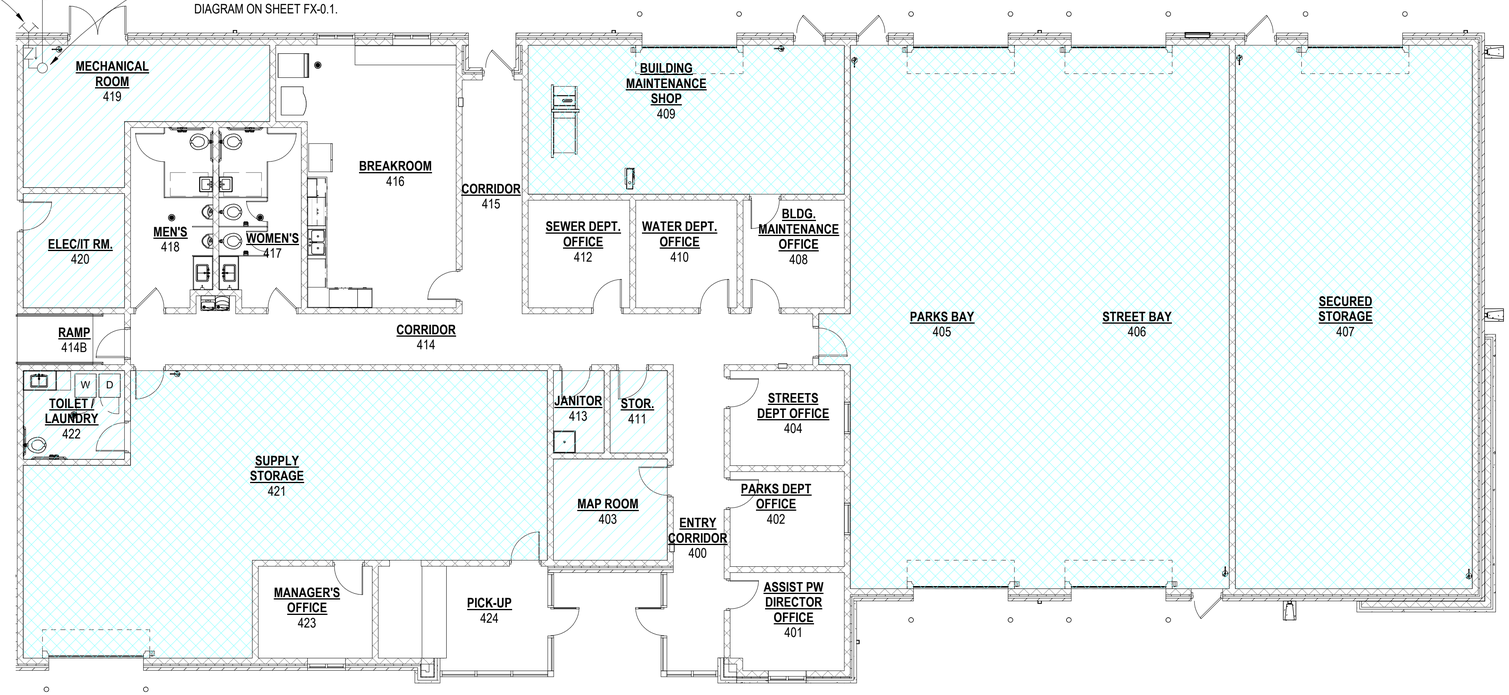
FX-3.1

ISSUED FOR BID

PROVIDE NEW 6" UNDERGROUND FIRE WATER SUPPLY. SEE CIVIL PLANS FOR CONTINUATION.

NEW AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM RISER LOCATED IN THIS ROOM. SEE DIAGRAM ON SHEET FX-0.1.

PROVIDE FIRE DEPARTMENT CONNECTION PER FLORIDA BUILDING CODE SECTION 912, FFPC, AND NFPA 13.



TRUE NORTH / PROJECT NORTH

1 FX-4.1 PUBLIC WORKS AREA A -FIRE SPRINKLER PLAN

1/8" = 1'-0"

DESIGN APPROACH

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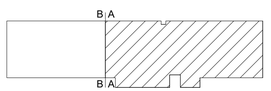

PUBLIC WORKS-KEY PLAN

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MOTT MACDONALD

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SHEET TITLE:

PUBLIC WORKS AREA A - FIRE SPRINKLER PLAN

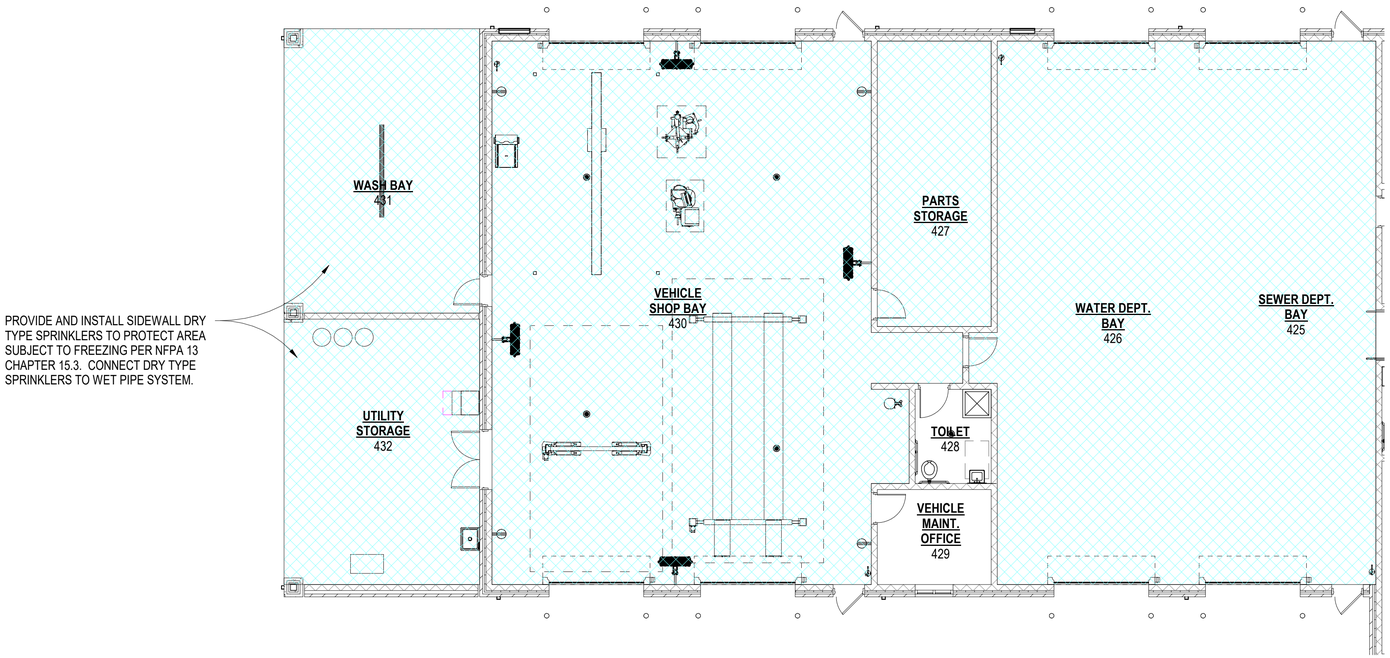
SHEET NUMBER:

FX-4.1

ISSUED FOR BID

SPRINGFIELD CITY COMPLEX

9/25/2023 10:54:09 AM



1 FX-4.2 PUBLIC WORKS AREA B - FIRE SPRINKLER PLAN

1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

DESIGN APPROACH

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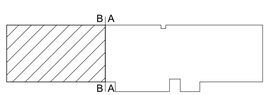
NECESSARY EQUIPMENT TO SERVE THE ENTIRE BUILDING.



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SHEET TITLE:

PUBLIC WORKS AREA B - FIRE SPRINKLER PLAN

SHEET NUMBER:

FX-4.2

ISSUED FOR BID