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ADDENDUM #01

Project Name: Meramec Ambulance District – Station 4
Project Number: 25083
Date: October 30, 2026

PLEASE NOTE

The following clarifications, deletions, additions, and supplemental instructions have been incorporated into the Project Manual, Construction Drawings and represent a portion of said Construction Documents.

In the event of a conflict between this Addendum, Project Manual and/or Construction Drawings, ***this Addendum shall supersede*** *all previous instructions, pertaining to said items.*

CLARIFICATIONS and REQUESTS FOR INFORMATION

1. A Project Prebid Conference was held on Wednesday October 28, 2026, per Specifications Section 00 21 13 Instructions to Bidders. Per discussions at that time, Architect stated Conference Agenda and Sign in Sheet would be issued to all Contractors identified on said Sign in Sheet.
   a. **Response: Reference attached Prebid Conference Agenda and Sign in Sheet.**

2. Can the bid dates be staggered for people wanting to bid on both projects?
   a. **Response: No. The bid dates will remain as currently scheduled. Bids for Stations #1 & #3 and Station #4 will be received on the same date and at the times established in the bidding documents.**

3. Is there a valuation for either or both of these projects?
   a. **Response: The estimated construction value for Station #4 is $2,600,000. The estimated construction value for Stations #1 & #3 Renovations is $1,050,000. These values are provided for informational purposes only and do not represent a limitation on bid amounts.**

4. What are the liquidated damages for the MAD – Station 4 project? I see the A101 document in the Stations 1 & 3 Spec that has liquidated damages for that project as $2,000/day, but can't seem to find that document in the Station 4 spec.
   a. **Response: Liquidated damages for the Station #4 project shall be $2,000 per calendar day for failure to achieve Substantial Completion within the established Contract Time.**

5. Invitation says **November 13, 2026, at 2:00 PM**; Pre-Bid Agenda says **November 13, 2026, at 2:00 PM;** bid form says **November 11 at 2:00 PM.** Please clarify which is correct?
    a. **Response: The Bid Form included in the original specifications incorrectly stated the bid due date was November 11, 2026, for Station #4. A revised Bid Form for Stations #4 is included with this Addendum, showing the corrected date of November 13, 2026. Bidders shall utilize the revised Bid Form when submitting their bids.**

PRODUCT SUBSTITUTIONS

1. Spec Section 09 51 00 – Acoustical Panel Ceilings.
    a. **Response: This Product Substitution request is approved.**
    b. **Reference attached Substitution Request Form, CertainTeed.**

PROJECT MANUAL

1. Spec Section 00 01 10 – Table of Contents
    a. **Amended to reflect changes in Addendum 01.**
    b. **See attached revised section.**

2. Spec Section 00 41 00 – Bid Form
    a. **Bid Form Updated to correct Bid Due Date.**
    b. **Reference attached Revised Section.**

3. Spec Section 01 23 00 – Alternates
    a. **Updated list of Alternates to match the Bid Form.**
    b. **Reference attached Revised Section.**

4. Specification Section 09 51 00 Acoustical Ceilings.
    a. **Aluminum ceiling grid removed from section.**
    b. **Added seismic performance requirements.**
    c. **Reference attached Revised Section.**

5. Specification Section 26 32 13 Engine Generators
    a. **Added to section 2.7.B.4:**
        i. **Double Wall**
        ii. **Tank Gauging**
        iii. **Overfill Protection**
        iv. **Leak Detection**
    b. **Reference attached Revised Section.**

6. Specification Section 32 92 19 Seeding
    a. **Removed reference to bluegrass.**
    b. **Reference attached Revised Section.**

CONSTRUCTION DRAWINGS

GENERAL:

1. G001 – COVER SHEET
   a. **Added Addendum 01 to the Sheet Index matrix.**
   b. **Reference attached Revised Sheet.**

CIVIL:

1. C5.0 – SITE GEOMETRY AND UTILITY PLAN
   a. **Changed Note: GENERATOR, SEE 2/E501 FOR GENERATOR PAD AND SLAB REQUIREMENT.**
   b. **Reference attached Revised Sheet.**

ARCHITECTURAL:

1. A102 – ANNOTATED FLOOR PLAN
   a. **Details C7 / D7: Modified trim details to be LP SmartSide as base bid. Fiber cement siding has been removed from the project.**
   b. **Reference attached Revised Sheet.**

2. A111 – OVERALL CEILING PLAN & DETAILS
   a. **Added Day Room and Kitchen soffits, along with detail callouts, to the base bid ceiling plan. The alternate associated with ceiling soffits is no longer applicable.**
   b. **Reference attached Revised Sheet.**

3. A201 – EXTERIOR ELEVATIONS
   a. **Modified siding and trim in the Materials Legend to be LP SmartSide as base bid. Fiber cement siding has been removed from the project.**
   b. **Reference attached Revised Sheet.**

4. A531 – CEILING DETAILS
   a. **Added sheet to the set with base bid ceiling soffit details in the Day Room and Kitchen.**
   b. **Reference attached New Sheet.**

5. ALT-1 – ALTERNATE 2&4 CEILING PLAN & DTLS (SHEET DELETED)
   a. **This sheet has been deleted from the project. LP SmartSide is now base bid and fiber cement siding has been removed from the project. The Day Room and Kitchen soffits are now base bid, and this alternate has been removed.**

STRUCTURAL:

- ***No documents issued within this Addendum.***

MECHANICAL:

- ***No documents issued within this Addendum.***

PLUMBING:

- ***No documents issued within this Addendum.***

FIRE PROTECTION:

- ***No documents issued within this Addendum.***

ELECTRICAL:

1. E101 – SITE PLAN
   a. **Added approximate location of the shed to be demolished, with note: "CONTRACTOR TO REMOVE ELECTRICAL SERVICE TO MAKE BUILDING SAFE FOR DEMO."**
   b. **Reference attached Revised Sheet.**

END OF ADDENDUM #01

Meramec Ambulance District
Base Stations No. 1 & 3 Renovations / Station #4 New Construction
Combined Pre-Bid Meeting – Separate General Contractor Bid Packages
October 28, 2026 9:00 AM

A. Introductions

a. Meramec Ambulance District – Owner
   i. Taz Meyer - Chief
   ii. Stevie Schneider
b. Navigate Building Solutions – Owner's Representative
   i. Josh Hurford – Project Manager
   ii. Collette Koscielski – Project Director
c. Archimages, Inc. – Architect
   i. Joseph McKinney – Project Architect
   ii. Roy Mangan – Principal
d. Horner & Shifrin – MEP/FP Consultants
e. Civil Engineering Design Consultants (CEDC) – Civil Engineers
f. KPFF – Structural Engineer

B. Project Overview:

a. Two (2) independent General Construction bid packages are being solicited: (1) Stations No. 1 & No. 3 Renovations, bid together under one bid form; and (2) Station No. 4, bid separately. Bidders may bid either or both projects, but must submit separate complete bids.
   i. Stations 1 & 3:
      1. Renovations to existing ambulance stations, including interior finishes, flooring, lighting/electrical, HVAC, plumbing fixtures, casework, door hardware and selective exterior work, as identified in the issued documents. Scope and alternates are governed by the bid documents.
      2. Stations 1 & 3 construction sequence: 16 weeks at Station 1, then 16 weeks at Station 3. Work is limited to one station at a time; Station 1 is first. Anticipated Station 1 start: early February 2027, subject to contract documents and Notice to Proceed. New generator installation is excluded from the 16-week station duration and shall be coordinated for a reasonable pre-scheduled date based on lead time. **Owner will not occupy the renovation spaces during these 16 week periods.**
      3. Approximate value of Project - $1,050,000
   ii. Station 4
      1. Separate project. Review the issued Station 4 drawings/specifications for the complete scope, including site work and the pump room/underground tank work. Do not assume Station 2 scope or allowances apply.
      2. Approximate value of Project - $2,600,000

FULL SCOPE OF WORK IS DEFINED BY THE ISSUED BID DOCUMENTS. BIDDERS MUST REVIEW ALL DRAWINGS, SPECIFICATIONS, ADDENDA AND APPLICABLE ALTERNATES.

1. Project location

    a. **Station #1 - 429 E. Osage Street, Pacific, MO 63069**
    b. **Station #3 – 7390 State Highway O, Robertsville, MO 63072**
    c. **Station #4 - 385 Old Manchester Road, Pacific, MO 63069**

2. **FULL SCOPE OF WORK ISSUED IN BID DOCUMENTS. BIDDER MUST REVIEW PRIOR TO BID.**

C. Bidding Details:

1. **A voluntary Combined Bid option has been added to the Bid Forms for Stations #1 & #3 Renovations**. Contractors bidding both projects may offer a combined price reflecting potential cost savings if awarded both contracts. This option is voluntary, and bidders must still submit separate, complete Base Bids for each project. The Owner reserves the right to award the projects separately or to the same Contractor based on the bids received and the Owner's best interests. **Revised Bid Form will be included in Addendum #1** issued following this pre-bid meeting.

2. **Bids will be received in person at the Meramec Ambulance Station No. 3, 7390 State Highway O, Robertsville, MO 63072, no later than 2:00 PM CST on November 13, 2026.** Bids received after 2:00 PM November 13, 2026 will not be opened. Bids will be publicly opened and read aloud immediately following at the Pacific Fire Protection District -Station 2 7376 State Hwy O, Robertsville, MO 63072.

3. Each bid must be accompanied by a cashier's check or certified check, or a Bid Bond executed by the Bidder and an approved surety company payable to **Meramec Ambulance District**, in an amount not less than five percent (5%) of the sum total of the base bid.

4. A payment bond and performance bond in the amount of the full Contract amount will be required of the selected bidder.

5. All copies of the Bid and any other document required to be submitted with the Bid shall be enclosed in a sealed, opaque envelope. The envelope shall be addressed to:
    Attention: Chief Taz Meyer
    Meramec Ambulance Station No. 3
    7390 State Highway O
    Robertsville, MO 63072
    The envelope shall be identified with Project name (Include 'Meramec Ambulance District - Station No. 1 & 3' or 'Meramec Ambulance District – Station No. 4'), and the Bidder's name. **If submitting both projects, please submit two (2) separate envelopes.**

    Fax or email bids will NOT be accepted. Unsigned bids will NOT be accepted.

    Bids submitted to NAVIGATE's office will NOT be accepted. No late bids will be accepted.

6. Bids will be held good and may not be withdrawn for a period of sixty (60) calendar days from receipt of bids.

7. Bid documents access will be provided by contacting the architect's office:

    Nicole Luedloff
    Archimages, Inc.
    nluedloff@archimages-stl.com
    314-965-7445

8. The Owner intends to use the tax-exempt purchasing procedure

9. All bidders **MUST** submit bids using the Bid Form provided in the Project Documents. All areas of the Bid Form must be completed.

    a. Bidders are advised that there is a lot of information being requested with your bid, so please have your administrative personnel prepare the Bid Form early in your bidding process so that you can focus on the bid form and alternates on bid day.

10. Within 24 hours of the Bid Date and Time, submit the completed Supplemental Bid Information Form, including the Base Bid cost breakdown, unit prices, and proposed subcontractors.

~~11. The Owner reserves the opportunity to interview select bidders following review of the bids. If the Owner wishes to hold interviews, select bidders will be contacted after the bid opening by NAVIGATE. These interviews will take place on the afternoon of September 8.~~

12. The project must utilize prevailing wage. All wages paid for work performed on site must comply with the Missouri Division of Labor Standards Annual Wage Order Number 33 for Franklin County, Missouri. Certified Payroll will be a requirement of this project.

13. Board approval and issuance of the Notice to Proceed is tentatively anticipated to occur by the end of **November**.

14. Bidders to bid their proposed contractual project duration. The proposed duration will be key criteria along with the Bid Amount for evaluating and selecting a General Contractor. **No weather delay days will be awarded to extend the duration**.

15. Liquidated damages of **$2,000 per calendar day for the Station #1 & 3 Renovations, $1,000 per calendar day for the Station #4 New Construction** will apply if the Contractor fails to achieve Substantial Completion within the accepted Contract Time. The Contract Time will be based on the duration proposed by the successful bidder and accepted by the Owner, measured from issuance of the Notice to Proceed. Liquidated damages will continue for each calendar day until Substantial Completion is achieved. Final Completion is required within 30 calendar days after Substantial Completion; delays beyond that period are subject to the Owner's actual additional Architect and Owner's Representative costs.

16. Modified AIA forms A101 and A201 will be used for the Contract between Owner and General Contractor. Drafts of both forms are included in the specifications.

17. Preliminary schedule is due **14 days after the Agreement** and must cover the first 60 days with a general outline of the remaining Work.

18. Successful contractor will be required to submit daily reports, within 24 hours of each workday.

19. Bidders shall request clarification or interpretation of the Bidding Documents by making a written request to the Architect. Such requests must be received by the Architect, Archimages, Inc., at least seven (7) calendar days prior to the date of for receipt of Bids to best ensure that the request can be addressed and disseminated to potential Bidders prior to the receipt of Bids. Requests to be directed to:

    - Matthew Bethel, Archimages, Inc., at mbethel@archimages-stl.com or 913-378-9533.
    - Nicole Luedloff, Archimages, Inc., at nluedloff@archimages-stl.com or 314-965-7445.
    - Josh Hurford, NAVIGATE, at josh@navigatebuildingsolutions.com or 512-808-9863.

    The reply will be in the form of an Addendum, a copy of which will be forwarded to known recipients.

20. Summarized minutes and the sign-in sheet will be circulated to attendees. Information affecting the bidding documents will be issued by Addendum.

21. The Owner will furnish the building and fire permits. Contractor shall pick up those permits and obtain and pay for all other permits, licenses, and approvals applicable to its Work."

22. The Owner will employ and pay for structural special inspections, including soil and concrete testing. The Contractor shall coordinate and schedule the Owner's testing agency and shall pay for other specified testing not provided by the Owner and for Contractor-caused retesting

23. This Contractor will be responsible for all SWPPP inspections, weekly and/or after a rain events. These will be submitted to the Architect, Engineer and Owner's Representative weekly and within 24 hours of each weather event. This contractor is also responsible for installation, maintenance, and removal of the silt fence and project work boundary flagging during the course of construction.

24. This Contractor shall be responsible for the cost of temporary utilities during the course of construction.

25. Builder's Risk shall be carried by the Contractor. Deductibles shall be paid by the Contractor.

26. This contractor will be responsible for all project as-builts.

27. Bid shall include an **Allowance of $100,000 for Unforeseen Subsurface Conditions for the Station #4 Project. Stations 1 & 3 Renovations shall include allowances of $80,000 for Unforeseen Conditions and $125,000 for Site Drainage Improvements for a total of $205,000**. The Allowance may only be used by approval of the Owner.

D. Design team input

E. Questions

PRE-BID MEETING | SIGN-IN SHEET

MERAMEC AMBULANCE DISTRICT • STATIONS 1 & 3 RENOVATIONS / STATION 4 NEW CONSTRUCTION

October 28, 2026 | 9:00 AM | Station 3, 7390 State Highway O, Robertsville, MO

NAVIGATE BUILDING SOLUTIONS

#	Name	Company	GC / Sub / Other	Email Address	Phone Number
1	Joseph McKinney	Archimages	Arch	JmcKinney@Archimages-STL.com	636-744-1542
2	DAVE Costello	Alloy Group	Sub	dcostello@Alloygroup.com	314-668-0362
3	Rick GRIFFIN	DUNEMAN DEMO	Sub	Estimating@DUNEMANDEMO.COM	314-581-5177
4	Drew Patterson	Wright Construction	GC	Bids@wrightconstruct.com	636 466 0886
5	JORDAN FINLEY	MARSCHEL WRECKING	SUB	JORDAN@MARSCHELLWRECKING.COM	314-341-7431
6	Kurt Vollmer	TFE	sub	kvollmer@tfelectricllc.com	636-221-7666
7	Matt Lawlor	Lawlor Construction, llc	GC	bids@lawlor-stl.com	314-644-0456
8	Sam Aufmuth	Lawlor Construction, LLC	GC	bids@lawlor-stl.com	314-644-0456
9	Hailey Barnes	smithpro painting	Sub	haileybarnes@smithpropainting.com	314-280-5506
10	Jim Hulsey	Union Furniture & Flooring	Sub	jimh@unionfurnituremo.com	636-584-2007
11	DAVE KAMPSCHROEDER	QUALITY & TAPING PAINTING	SUB	QUALITY_TAPING@YAHOO.COM	314-486-4857
12	Justin Schmidt	Bombshell	GC	info@bombshellcs.com	573-826-1823
13	Jaquline True	ICS	GC	JTrue@ICS-STL.com	314-534-6664
14	Tom Davis	Tri County Electrical	Sub	tdavis@tricountyElectrical.com	417-597-1726

Please print clearly. Contact information will be used for project bid communications.

PRE-BID MEETING | SIGN-IN SHEET

MERAMEC AMBULANCE DISTRICT • STATIONS 1 & 3 RENOVATIONS / STATION 4 NEW CONSTRUCTION

October 28, 2026 | 9:00 AM | Station 3, 7390 State Highway O, Robertsville, MO

NAVIGATE BUILDING SOLUTIONS

#	Name	Company	GC / Sub / Other	Email Address	Phone Number
15	John Phillips	Legacy Coatings	Sub	John@legacycoatingsllc.com	314 565-1620
16	Nick Stewart	Focal Point Coatings	Sub	Nick Stewart@focalpointcoatings1.com	573-315-9157
17	Jared Tebbe	Integrate Construction Partners	GC	Bids@integrateCP.com	618-406-9861
18	Clayton Perwich	Meyer Construction Services	Sub	clayton@meyerconstruction.com	636-345-0014
19	Joe Stockmann	Hankins Const.	GC	Bids@hankinsmidwest.com	314-426-7030
20	Nathan Fischer	"	"	"	"
21	David Mundwiller	Mundwiller Electric	Sub	bids@mundwillerelectric.com	636-239-1058
22	Cody Runble	Runble Painting	Sub	jcrunge@rungepainting.com	314 471 4908
23	Brad Martin	Painting Solutions	Sub	Brad@paintingsolutionsstl.com	314 440-2323
24	Bryan Meehan	A. Eiters Construction	GC	bids@aeiersconstruction.com	720 252 5256
25	Rose Ray	K+S Associates	GC	Estimating@KSgcstl.com	314 647 3535
26	PJ Myers	PJ Myers Hauling & Exc	Sub	pjmyerscuba@yahoo.com	573 259 9422
27	Stephen Pelster	Franklin County Construction	GC	spelster@franklincountyconstruction.com	573 280 7673
28	Chris Hiatt	Septic Services Inc	Sub	install@septicserv.com	636-583-5564

Please print clearly. Contact information will be used for project bid communications.

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: Meramec Ambulance District - Station 4
385 Old Manchester Rd, Pacific MO 63069

To: Archimages - 143 W Clinton Place
St. Louis MO 63122

Re: Acoustical Panel Ceilings

Substitution Request Number:

From: Certainteed

Date: 10/21/2026

A/E Project Number: 25083

Contract For:

Specification Title: Acoustical Panel Ceilings

Description:

Section: 09 51 00 1

Article/Paragraph: 2.01.A

Proposed Substitution: ACT-1

Manufacturer: Certainteed Address: Phone:

Trade Name: Sand Micro Customline Model No.: SMCL-224

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Ethan Kaiser

Signed by: Ethan Kaiser

Firm: Ceiling Center INC. Certified MO WBE Vendor

Address: 12964 Saint Charles Rock Road
Bridgeton, Missouri, 63044

Telephone: 314-298-2502 EXT. 107

A/E's REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: Date:

Supporting Data Attached: ☐ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

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110 South Union St., Suite 100, Alexandria, VA 22314

Form Version: January 2013
CSI Form 1.5C

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: Meramec Ambulance District - Station 4
385 Old Manchester Rd, Pacific MO 63069

To: Archimages - 143 W Clinton Place
St. Louis MO 63122

Re: Acoustical Panel Ceilings

Substitution Request Number:

From: Certainteed

Date: 10/21/2026

A/E Project Number: 25083

Contract For:

Specification Title: Acoustical Panel Ceilings

Description:

Section: 09 51 00 1

Article/Paragraph: 2.01.A

Proposed Substitution: ACT-1 Grid

Manufacturer: Certainteed Address: Phone:

Trade Name: EZ Stab Classic 15/16 Grid Model No.: EZCS12-12-15

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
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- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
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- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Ethan Kaiser

Signed by: Ethan Kaiser

Firm: Ceiling Center INC. Certified MO WBE Vendor

Address: 12964 Saint Charles Rock Road
Bridgeton, Missouri, 63044

Telephone: 314-298-2502 EXT. 107

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10 56 17	Wall Mounted Standards and Shelving		Archimages
10 75 00	Flagpoles		Archimages

DIVISION 12	FURNISHINGS	REVISION	AUTHOR
12 24 13	Window Shades		Archimages

12 35 30	Residential Casework		Archimages
12 36 00	Countertops		Archimages

-- VOLUME TWO --

DIVISION 21	FIRE PROTECTION	REVISION	AUTHOR
21 05 13	Common Motor Requirements for Fire Suppression Equipment		H&S
21 05 17	Sleeves and Sleeve Seals for Fire Suppression Piping		H&S
21 05 18	Escutcheons for Fire Suppression Piping		H&S
21 05 23	General-Duty Valves for Water-Based Fire-Suppression Piping		H&S
21 05 29	Hangers and Supports for Fire-Suppression Piping and Equip		H&S
21 05 53	Identification for Fire-Suppression Piping and Equipment		H&S
21 11 19	Fire Department Connections		H&S
21 13 13	Wet-Pipe Sprinkler Systems		H&S
21 13 16	Dry-Pipe Sprinkler Systems		H&S
21 32 13	Electric-Drive, Vertical-Turbine Fire Pumps		H&S
21 34 13	Pressure-Maintenance Pumps		H&S

DIVISION 22	PLUMBING	REVISION	AUTHOR
22 05 00	Basic Plumbing Materials and Methods		H&S
22 05 49	Plumbing Systems Supports, Bracing, And Seismic Restraints		H&S
22 06 00	Plumbing Hangers and Pipe Supports		H&S
22 07 50	Plumbing Identification		H&S
22 08 40	Plumbing Pipe Insulation		H&S
22 11 00	Plumbing Valves		H&S
22 14 00	Plumbing Meters and Gage		H&S
22 34 00	Fuel-Fired, Domestic-Water Heaters		H&S
22 41 00	Piping Excavation and Backfilling		H&S
22 41 10	Water Distribution Piping		H&S
22 42 00	Drainage And Vent Piping		H&S
22 43 00	Plumbing Specialties		H&S
22 44 00	Plumbing Fixtures		H&S
22 44 45	Domestic Water Softeners		H&S

DIVISION 23	HEATING, VENTILATING and AIR CONDITIONING (HVAC)	REVISION	AUTHOR
23 00 00	Mechanical General Requirements		H&S
23 00 50	Basic Mechanical Materials and Methods		H&S
23 05 13	Motors		H&S
23 05 29	Hangers and Supports		H&S
23 05 48	Mechanical Systems Vibration Control		H&S

23 05 49	Mechanical Systems Supports, Bracing and Seismic Restraints		H&S
23 05 93	Testing Adjusting, And Balancing		H&S
23 07 00	Mechanical Insulation		H&S
23 09 90	HVAC Instrumentation and Controls		H&S
23 11 23	Fuel Gas Piping		H&S
23 31 13	Metal Ducts		H&S
23 33 00	Duct Accessories		H&S
23 34 23	Power Ventilators		H&S
23 37 13	Diffusers, Registers, Grilles, and Louvers		H&S
23 38 13	Kitchen Hoods		
23 51 23	Gas Vents		H&S
23 55 23	Fuel-Fired Radiant Heaters		H&S
23 74 13	Rooftop Air Conditioners		H&S
23 81 26	Split-System Air-Conditioners		H&S
23 82 16	Electric-Resistance Air Coils		H&S

DIVISION 26	ELECTRICAL	REVISION	AUTHOR
26 05 00	Common Work Results for Electrical		H&S
26 05 19	Low Voltage Electrical Power Conductors and Cables		H&S
26 05 26	Grounding and Bonding for Electrical Systems		H&S
26 05 29	Hangers and Supports for Electrical Systems		H&S
26 05 33	Raceway and Boxes for Electrical Systems		H&S
26 05 48	Vibration and Seismic Controls for Electrical Systems		H&S
26 05 53	Identification for Electrical Systems		H&S
26 09 23	Lighting Control Devices		H&S
26 24 16	Panelboards		H&S
26 27 13	Electricity Metering		H&S
26 27 26	Wiring Devices		H&S
26 28 16	Enclosed Switches and Circuit Breakers		H&S
26 32 13	Engine Generators	Addendum 1	H&S
26 36 00	Transfer Switches		H&S
26 43 13	Surge Protective Device (SPD) For Low Voltage Electrical Power Circuits		H&S
26 51 00	Interior Lighting		H&S
26 56 00	Exterior Lighting		H&S
26 80 00	Auxiliary Systems		H&S
26 90 00	Electrical Commissioning		H&S

DIVISION 28	ELECTRONIC SAFETY AND SECURITY	REVISION	AUTHOR
28 31 11	Digital, Addressable Fire-Alarm System		H&S

DIVISION 31	EARTHWORK	REVISION	AUTHOR
31 00 00	Earthwork		CEDC
31 10 00	Site Clearing		CEDC
31 23 16	Excavation		CEDC
31 23 16.13	Trenching		CEDC
31 23 23	Fill		CEDC
31 31 16	Termite Control		Archimages

DIVISION 32	EXTERIOR IMPROVEMENTS	REVISION	AUTHOR
32 11 23	Aggregate Base Courses		CEDC
32 12 16	Asphalt Paving		CEDC
32 13 13	Concrete Paving		CEDC
32 17 23.13	Painted Pavement Markings		CEDC
32 31 23	Plastic Fences and Gates		Archimages
32 32 23	Wall Standards		CEDC
32 92 19	Seeding	Addendum 1	Archimages

DIVISION 33	UTILITIES	REVISION	AUTHOR
33 11 13	Water Supply Well		H&S
33 11 16	Water Distribution		CEDC
33 13 00	Disinfecting of Water Utility Distribution		CEDC
33 31 00	Sanitary Utility Sewerage Piping		CEDC
33 41 00	Site Storm Utility Drainage Piping		CEDC
33 46 00	Subdrainage		CEDC

SECTION 00 41 00
BID FORM – STATION #4

This Bid Form must be completed, sealed in an envelope, and received by Meramec Ambulance District (Owner) no later than **2:00 PM local time on November 13, 2026**.

The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an agreement with Owner in the form included in the Bid Documents, and to perform all Work as specified or indicated in the Bid Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bid Documents.

Below is the contact for the BIDDER submitting this bid, who will be responsible for any questions that may arise during bid review and who may also be contacted to discuss the acceptance or rejection of this bid:

BIDDER Company Name	
BIDDER Contact Person Name, Title	
Address	
City/State/Zip	
Phone Number	
Email Address	

STIPULATED SUM BID FORM

Name of Project: **Meramec Ambulance District Station No. 4**

Date: _____

Proposal from: _____

(Hereinafter called Bidder), a corporation organized and existing under the laws of the state of_____, a partnership, or an individual doing business as_____ (cross out inapplicable).

SUBMIT BIDS TO:

ATTN: Taz Meyer, Chief
Meramec Ambulance Station No. 3
7390 State Highway O
Robertsville, MO 63072

The Bidder, in compliance with the Instructions to Bidders for the project and having carefully

examined the Bid Documents as set forth in the Project Manual, which documents are made a part hereof, as well as the site and all conditions surrounding and affecting the work, agrees to furnish all labor, materials, and supplies necessary to perform all the work in accordance with said documents and within the time and at the prices stated below.

BASE BID – MERAMEC AMBULANCE DISTRICT STATION #4

ITEM NO.	ITEM DESCRIPTION	SUB-TOTAL
1	Base Bid	
2	Unforeseen Subsurface Conditions Allowance	$100,000
3	Payment & Performance Bond	
4	Builder's Risk	
	TOTAL	

Total of lines above shall equal the Total Lump Sum Bid Below.

Furnish all labor, tools, equipment, and material required to perform all work indicated for the Meramec Ambulance District: Station #4 project, as defined in the Bid Documents for the TOTAL LUMP SUM AMOUNT of

$_____

TIME

Board approval and issuance of the Notice to Proceed is tentatively anticipated to occur by the end of December 2026. Bidder hereby states that the time required to perform all work indicated in the Bid Documents (and any accepted alternates) and work necessary to complete the project per the project per the duration proposed on this Bid Form is acceptable. Liquidated Damages shall be assessed for delays to Substantial Completion and are further described in the bid documents.

Bidders shall propose a contractual duration for achieving Substantial Completion in the blank space below. The proposed duration will be utilized as criteria for selection of the General Contractor. Bidder shall include anticipated adverse weather in the proposed contractual duration below.

Complete all work related to the new construction, site improvements, bid alternates, and anticipated base bid soil treatment / remediation to achieve Substantial Completion within _____ calendar days from the issuance of the Notice to Proceed.

Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use and the remaining outstanding work is considered

minor. Additionally, Substantial Completion is the date by which all life safety and authorities having jurisdiction inspections have been approved and the punch list has been created.

ALTERNATES - To be submitted at the time of Bid. Bids will not be accepted if these alternates are not provided at the time of bid. Refer to Section 01 23 00 for full description of alternates.

Alternate 1 – Asphalt Paving

Add / Deduct (circle one): $_____

Alternate 2 – Epoxy Floor Finish in Apparatus Bay

Add / Deduct (circle one): $_____

ACKNOWLEDGEMENT OF BID DOCUMENTS AND ADDENDA

Bidder acknowledges receipt of the following Documents and Addenda, and the cost associated with all Addenda is included in the Base Bid:

1. Drawings and Specifications dated October 16, 2026
2. Addenda
   - Addenda No. _____ Dated _____
   - Addenda No. _____ Dated _____
   - Addenda No. _____ Dated _____
   - Addenda No. _____ Dated _____
   - Addenda No. _____ Dated _____

UNIT PRICES - To be submitted to Owner within 24 hours of the Bid Date and Time. Unit Prices for scope adjustments after award shall be provided for the items listed in section 01 22 00 – UNIT PRICES. Provide Unit Prices on the "Supplemental Bid Information" form provided in the Project Manual.

LIST OF PROPOSED SUBCONTRACTORS – To be submitted to Owner within 24 hours of the Bid Date and time. List all proposed subcontractors on the "Supplemental Bid Information" form provided in the Project Manual.

REFERENCES – To be submitted at the time of Bid.
Bids will not be accepted if references are not provided at the time of bid. Bidder shall provide at least three references of similar projects.

Company: _____

Address: _____

Contact Person: _____

Telephone: _____

Email: _____

Type of service provided: _____

Dates/year(s) service was provided: _____

Company: _____

Address: _____

Contact Person: _____

Telephone: _____

Email: _____

Type of service provided: _____

Dates/year(s) service was provided: _____

Company: _____

Address: _____

Contact Person: _____

Telephone: _____

Email: _____

Type of service provided: _____

Dates/year(s) service was provided: _____

QUALIFICATIONS – To be submitted at the time of Bid. All requested attachments and responses shall accompany the Bid.

Organization

1. How many years has your organization been in business as a General Contractor?_____
2. How many years has your organization been in business under its present business name?_____
3. Under what other or former names has your organization operated?
   _____
   _____
4. How many persons do you have working for the company?
   Operators:____ Carpenters: _____ Laborers: _____
   Superintendents: _____ Office Management: _____ Other Trades: _____
5. List the categories of work you organization normally performs with its own forces, and identify which will be self-performed on this project.
   _____

_____
_____
_____
_____

6. What is your company's EMR? _____
7. What is your Total Recordable Incident Rate? _____
8. State the amount of the deductibles on all insurance that you will be providing for the Project:

Workers Compensation Insurance: _____

Commercial General Liability Insurance: _____

Automobile Liability Insurance: _____

Umbrella / Excess Liability: _____

Capacity

1. What is your average annual construction volume over the past five (5) years? What was the construction volume for your most recently completed fiscal year?_____
2. What is your average project size? _____
3. What is your largest project size (contract value) completed in the past five (5) years_____
4. What is your total value of work currently in progress and under contract? _____
5. What is your single project bonding capacity? _____
6. What is your aggregate bonding capacity? _____
7. What is your current available bonding capacity? _____

Experience

1. On a separate sheet list all projects completed by your firm in the past five (5) years, with a contract value of $3,000,000 or greater. List project name, client, architect, total contract value, date of completion and percentage of the cost of work performed with your own forces.

2. Identify any fire station, ambulance station, emergency services, or similar public facility projects completed within the past five (5) years. If none, state "None."

_____
_____
_____
_____

Proposed Project Personnel

Identify the proposed Project Manager and Superintendent and the length of experience of each.

Project Manager - _____

Superintendent - _____

Will a full-time, on-site Superintendent be assigned to this Project during active construction?

Yes:_____No: _____

How many active projects is the proposed Project Manager currently managing?

_____

Project Execution and Management

Identify major anticipated long-lead materials or equipment

_____

_____

_____

_____

Claims And Suits

If the answer to any of the questions below is “yes”, please attach written description of details.

1. Has your organization ever failed to complete any work awarded to it?

   Yes: _____ No:_____

2. Are there any judgments, claims, arbitration proceedings, or suits pending or outstanding against your organization or its officers?

   Yes: _____ No:_____

3. Has your organization been party to any lawsuits or arbitration with regard to construction contracts within the last five (5) years?

   Yes: _____ No:_____

4. Have Liquidated Damages been assessed against your organization on any project in the past five (5) years? Yes: _____ No:_____

5. Has your organization had any prevailing wage violations or findings in the past three (3) years?

Yes: _____ No:_____

6. Has your organization filed for bankruptcy or reorganization in the past seven (7) years?

Yes: _____ No:_____

MISCELLANEOUS BID REQUIREMENTS

A. The undersigned understands that this bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time and date for receiving bids.

B. The undersigned understands that the Owner reserves the right to reject any or all bids or subcontractors.

C. The undersigned further agrees to indemnify and save the Owner from and against all losses, judgments of every nature and description made, brought, or recovered against the Owner by reason of any act or omission of the undersigned, his agents, subcontractors, or employees in the execution of the work or in guarding the same.

D. The undersigned hereby declares that this Stipulated Sum Bid is based solely upon the materials and equipment described in the bidding documents (including Addenda), and that no substitutions are contemplated.

E. The Bidder declares that he/she has had an opportunity to examine the site of the work and he/she has examined the bidding Documents therefore, and that he/she has carefully prepared his/her Bid upon the basis thereof and that he/she has carefully examined and checked this Bid and the materials, equipment and labor required thereunder, the cost thereof, and the figures therefor, and hereby states that the amount or amounts set forth in this Bid is, or are, correct and that no mistake or error has occurred in this bid.

F. See next page for signatures.

IF A CORPORATION

_____ _____

Name of Corporation Signature of Officer

_____

Name and Title of Officer

Incorporated under the laws of the State of _____ (Print)

Licensed to do business in Missouri? (Check one) [ ] Yes [ ] No

Address for Communications _____

_____

(Seal if bid is by a corporation.)

IF A PARTNERSHIP State name and address of all partners. Each partner shall execute the Bid Form under their respective seals. Attach a copy of the Partnership / Joint Venture agreement to the Bid Form.

_____ _____

Name of Partnership

_____

_____ _____

Signature of Authorized Partner

_____

IF INDIVIDUAL

_____ _____

Name of Firm (if any)

Address for Communications

_____

Signature of Individual _____

_____ _____

Name of Individual (Print)

IF BIDDING AS A JOINT VENTURE List all parties, and indicate which party will be designated as the 'Lead.' Each party of the Joint Venture shall execute the Bid Form under their respective seals. Attach a copy of the Partnership / Joint Venture agreement to the Bid Form.

_____ _____

_____ _____

END OF SECTION

SECTION 01 23 00
ALTERNATES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Description of Alternates.

B. Procedures for pricing Alternates.

C. Documentation of changes to Contract Sum and Contract Time.

1.02 RELATED REQUIREMENTS

A. Document 00 21 13 - Instructions to Bidders: Instructions for preparation of pricing for Alternates.

B. Document 00 41 00 - Bid Form: List of Alternates

C. Document 00 52 00 - Agreement Form: Incorporating monetary value of accepted Alternates.

1.03 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated within Bid Form for certain Work, as defined in the bidding requirements, that may be added to or deducted from the Base Bid amount, should Owner decide to accept a corresponding change, either in amount of construction to be completed, or in products, materials, equipment, systems, or installation methods described within the Contract Documents.

1. Alternates described in this Section shall form part of the Work, only if enumerated in the Agreement.
2. The cost or credit of each Alternate is the net addition to or deduction from the Contract Sum, as required to incorporate said Alternate into Work. No other adjustments shall be made to the Contract Sum.

1.04 PROCEDURES

A. Coordination: Revise, adjust, coordinate any and all affected subcontractor, supplier and trade Scopes of Work, required to completely integrate accepted Alternates into the Project.

1. Include as part of each Alternate, miscellaneous devices, accessory objects and all similar items incidental to, or required for, a complete installation, whether or not indicated as part of said Alternate.

B. Notification: Immediately following Award of the Contract, notify each party involved, in writing, of the status of each Alternate. Indicate if Alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated Revisions to Alternates.

C. Execute accepted Alternates under same conditions as all other Work of Contract.

D. Unless otherwise directed, complete all Work described within Alternates, with no increase in Contract Time.

E. This section includes non-technical descriptions of Alternates. Reference specific sections of Specifications and Drawings for technical descriptions of Alternates.

F. Owner reserves right to award none, any one or more in any order, or all Alternates in combination with Work covered by Base Bid.

G. Owner reserves right to determine low bid as Base Bid alone, or sum of Base Bid and any combination of Alternates.

H. Each Alternate shall include all Work required for a complete and finished Scope of Work.

I. Alternates are additive or deductive to the Base Bid. Provide costs in appropriate spaces delineated within Bid Form.

J. Submit Bids for Base Bid and all Alternates listed within Bid Form. Failure to quote an amount, or insertion of the words "no bid," "none" or words with a similar meaning, shall be considered as not completing the proposal and may constitute disqualification of entire Bid, upon Owner's

discretion. When there is no change in Base Bid, due to using an Alternate, insert the words "No Change". The words "No Change" shall be interpreted to mean that said Work described within the Alternate, shall be completed at no adjustment or change in cost to Base Bid.

K. Base Bid and Alternates are exclusive within their Scope of Work. There is no overlap between or among Base Bid and Alternates. The cost of any item of Work shall be included only once, within Base Bid or Alternates.

L. Schedule: A schedule of Alternates is included at the end of this Section. Specification Sections referenced within schedule contain requirements for materials necessary to achieve said Work delineated within each Alternate.

1.05 ACCEPTANCE OF ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

C. Contractor is required to hold their alternate pricing included in the Bid Form for six (6) months after the bid date, unless noted otherwise in the alternate description. Contractor shall notify the Owner, Architect, and Owner's Representative when decisions need to be made regarding the acceptance of bid alternates in order to maintain deliveries, installation, and the Master Project Schedule.

1.06 DEFINITIONS

A. Alternate: An amount proposed by Bidders and stated within Bid Form for certain Work, as defined in the Bidding Requirements, that may be added to or deducted from the Base Bid amount, should Owner decide to accept a corresponding change, either in amount of construction to be completed, or in products, materials, equipment, systems, or installation methods described within the Contract Documents.

1. Alternates described in this Section shall form part of the Work, only if enumerated within said Agreement.
2. The cost or credit of each Alternate is the net addition to or deduction from the Contract Sum, as required to incorporate said Alternate into Work. No other adjustments shall be made to the Contract Sum.

1.07 SCHEDULE OF ALTERNATES:

A. Alternate No. 1 Asphalt Paving.

1. Base Bid: Provide concrete paving, curbing and flume as indicated on Sheet C5.0 and as specified.
2. Alternate Bid: Provide asphalt paving as specified in lieu of the concrete paving that is included in the base bid.

B. Alternate No. 2 Apparatus Bay Floor Finish.

1. Base Bid: Provide liquid densifier and hardener as specified in Section 03 35 11 Concrete Floor Finishes in Rooms 119.
2. Alternate Bid: Delete the liquid densifier and hardener from Rooms 119. In lieu of the densifier and hardener, provide epoxy resin flooring as specified in Section 09 67 00 Fluid-Applied Flooring.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 09 51 00
ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Suspended metal grid ceiling system.

B. Acoustical units.

1.02 REFERENCE STANDARDS

A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.

C. ASTM C635/C635M - Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2022.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.

B. Do not install acoustical units until after interior wet work is dry and indoor relative humidity has been stabilized and controlled by the buidling HVAC systems.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Shop Drawings: Indicate grid layout and related dimensioning.

C. Product Data: Provide data on suspension system components and acoustical units.

D. Samples: Submit two samples 6 by 6 inch in size illustrating material and finish of acoustical units.

E. Samples: Submit two samples each, 12 inches long, of suspension system main runner, cross runner, and perimeter molding.

F. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

1.05 QUALITY ASSURANCE

A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

B. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.06 FIELD CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acoustic Tiles/Panels:
   1. Armstrong World Industries, Inc; Product(s) as indicated on the drawings: www.armstrongceilings.com/#sle.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

B. Suspension Systems:

1. Armstrong World Industries, Inc; Product as indicated in the interior finish schedule, utilizing the IBC approved Berc clip. 2 inch perimeter angle WILL NOT be accepted: www.armstrongceilings.com/#sle.
2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category C and complying with the following:
1. Local authorities having jurisdiction.

2.03 SUSPENSION SYSTEM(S)

A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.
1. Materials:
a. Steel Grid: ASTM A653/A653M, G30 coating, unless otherwise indicated.

B. Exposed Suspension System: Hot-dipped galvanized steel grid with steel cap.
1. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
2. Profile: Tee; 15/16 inch face width in locations as indicated on the drawings.
3. Finish: Baked enamel.
4. Color: White.

2.04 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

B. Hanger Wire: 12 gauge, 0.08 inch galvanized steel wire.

C. Perimeter Moldings: Same metal and finish as grid.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that layout of hangers will not interfere with other work.

3.02 PREPARATION

A. Install after major above-ceiling work is complete.

B. Coordinate the location of hangers with other work.

3.03 INSTALLATION - SUSPENSION SYSTEM

A. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.

B. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
1. Use longest practical lengths.

C. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.

D. Seismic Suspension System, Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch clearance between grid ends and wall.

E. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.

F. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.

G. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.

H. Do not eccentrically load system or induce rotation of runners.

3.04 INSTALLATION - ACOUSTICAL UNITS

A. Install acoustical units in accordance with manufacturer's instructions.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

C. Fit border trim neatly against abutting surfaces.

D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.

E. Cutting Acoustical Units:

1. Make field cut edges of same profile as factory edges.

3.05 TOLERANCES

A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.

B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

3.06 CLEANING

A. Clean surfaces.

B. Replace damaged or abraded components.

END OF SECTION

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SECTION 26 32 13 ENGINE GENERATORS

PART 1 - GENERAL

1.1 WORK INCLUDES

A. General:
   1. Electrical Contractor Provides.
      a. Generator.
      b. Annunciator.
      c. Sub base fuel tank.
      d. Full tank of gas.

1.2 SUMMARY

A. This section includes packaged diesel-engine generator sets with the following features and accessories:
   1. Battery charger.
   2. Subbase Fuel tank.
   3. Engine-generator set.
   4. Muffler.
   5. Exhaust piping external to set.
   6. Outdoor enclosure.
   7. Remote annunciator.
   8. Remote stop switch.
   9. Starting battery.

1.3 DEFINITIONS

A. Operational Bandwidth: The total variation from the lowest to highest value of a parameter over the range of conditions indicated, expressed as a percentage of the nominal value of the parameter.

B. Steady-State Voltage Modulation: The uniform cyclical variation of voltage within the operational bandwidth, expressed in Hertz or cycles per second.

1.4 SUBMITTALS

A. Product Data: Include the following:
   1. Data on features, components, accessories ratings, and performance.
   2. Thermal damage curve for generator.

3. Time-current characteristic curves for generator protective device.

B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
   1. Dimensioned outline plan and elevation drawings of engine-generator set and other components specified.
   2. Vibration Isolation Base Details: Signed and sealed by a qualified professional engineer. Detail fabrication, including anchorages and attachments to structure and to supported equipment. Include base weights.
   3. Wiring Diagrams: Power, signal, and control wiring.

C. Welding certificates.

D. Manufacturer Seismic Qualification Certification: Submit certification that engine-generator set, batteries, battery racks, accessories, and components will withstand seismic forces defined in Division 26 Section "Seismic Controls for Electrical Work." Include the following:
   1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
      a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
      b. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."
   2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
   3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

E. Qualification Data: For manufacturer.

F. Certified summary of prototype-unit test report.

G. Certified Test Reports: For components and accessories that are equivalent, but not identical, to those tested on prototype unit.

H. Certified Summary of Performance Tests: Demonstrate compliance with specified requirement to meet performance criteria for sensitive loads.

I. Test Reports:
   1. Report of factory test on units to be shipped for this Project, showing evidence of compliance with specified requirements.
   2. Report of sound generation.
   3. Report of exhaust emissions showing compliance with applicable regulations.
   4. Field quality-control test reports.

J. Certification of Torsional Vibration Compatibility: Comply with NFPA 110.

K. Operation and Maintenance Data: For packaged engine generators to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 1 Section "Closeout Procedures Operation and Maintenance Data," include the following:
   1. List of tools and replacement items recommended to be stored at the Project for ready access. Include part and drawing numbers, current unit prices, and source of supply.

L. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
   1. Maintenance Proximity: Not more than four hours' normal travel time from Installer's place of business to Project site.
   2. Engineering Responsibility: Preparation of data for vibration isolators and seismic restraints of engine skid mounts, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within 200 miles of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.

C. Source Limitations: Obtain packaged generator sets and auxiliary components through one source from a single manufacturer.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of packaged generator sets and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."

E. Welding: Qualify procedures and personnel according to ASME Boiler and Pressure Vessel Code: Section IX for welding exhaust-system piping.

F. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

G. Comply with NFPA 37.

H. Comply with NFPA 70.

I. Comply with NFPA 110.

J. Engine Exhaust Emissions: Comply with applicable state and local government requirements.

K. Noise Emission: Comply with applicable state and local government requirements for maximum noise level at adjacent property boundaries due to sound emitted by generator set

including engine, engine exhaust, engine cooling-air intake and discharge, and other components of installation.

1.6 COORDINATION

A. Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of packaged engine generators and associated auxiliary components that fail in materials or workmanship within specified warranty period.
   1. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Caterpillar; Engine Div.
   2. Cummins
   3. Generac

2.2 ENGINE-GENERATOR SET

A. Packaged engine-generator set shall be a coordinated assembly of compatible components.

B. Power Output Ratings: Nominal ratings as indicated, with capacity as required to operate as a unit as evidenced by records of prototype testing.

C. Output Connections: Per Drawings..

D. Safety Standard: Comply with ASME B15.1.

E. Nameplates: Each major system component shall be equipped with a nameplate to identify manufacturer's name and address, and model and serial number of component.

F. Fabricate engine-generator-set mounting frame and attachment of components to resist generator-set movement during a seismic event.

G. Mounting Frame: Adequate strength and rigidity to maintain alignment of mounted components without depending on concrete foundation. Mounting frame shall be free from sharp edges and corners and shall have lifting attachments arranged for lifting with slings without damaging components.

1. Rigging Diagram: Inscribed on metal plate permanently attached to mounting frame to indicate location and lifting capacity of each lifting attachment and generator-set center of gravity.

2.3 GENERATOR-SET PERFORMANCE

A. Steady-State Voltage Operational Bandwidth: 4 percent of rated output voltage from no load to full load.

B. Steady-State Voltage Modulation Frequency: Less than 1 Hz.

C. Transient Voltage Performance: Not more than 20 percent variation for 50 percent step-load increase or decrease. Voltage shall recover and remain within the steady-state operating band within three seconds.

D. Steady-State Frequency Operational Bandwidth: 0.5 percent of rated frequency from no load to full load.

E. Steady-State Frequency Stability: When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.

F. Transient Frequency Performance: Less than 5 percent variation for a 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within five seconds.

G. Output Waveform: At no load, harmonic content measured line to line or line to neutral shall not exceed 5 percent total and 3 percent for single harmonics. The telephone influence factor, determined according to NEMA MG 1, shall not exceed 50 percent.

H. Sustained Short-Circuit Current: For a single-phase, bolted short circuit at system output terminals, the system shall supply a minimum of 250 percent of rated full-load current for not less than 10 seconds and then clear the fault automatically, without damage to generator system components.

I. Start Time: Generator shall start and pick up load within 10 seconds of loss of normal power.

2.4 SERVICE CONDITIONS

A. Environmental Conditions: Engine-generator system shall withstand the following environmental conditions without mechanical or electrical damage or degradation of performance capability:
   1. Ambient Temperature: Minus 15 to plus 40 deg C.
   2. Relative Humidity: 0 to 95 percent.
   3. Altitude: Sea level to 1000 feet.

2.5 ENGINE

A. Fuel: Fuel oil, Grade DF-2.

B. Rated Engine Speed: 1800 rpm.

C. Lubrication System: The following items are mounted on engine or skid:
   1. Filter and Strainer: Rated to remove 90 percent of particles 5 micrometers and smaller while passing full flow.
   2. Thermostatic Control Valve: Control flow in system to maintain optimum oil temperature. Unit shall be capable of full flow and is designed to be fail-safe.
   3. Crankcase Drain: Arranged for complete gravity drainage to an easily removable container with no disassembly and without use of pumps, siphons, special tools, or appliances.

D. Engine Fuel System:
   1. Main Fuel Pump: Mounted on engine. Pump ensures adequate primary fuel flow under starting and load conditions.
   2. Relief-Bypass Valve: Automatically regulates pressure in fuel line and returns excess fuel to source.

E. Coolant Jacket Heater: Electric-immersion type, factory installed in coolant jacket system. Comply with NFPA 110 requirements for Level 1 equipment for heater capacity.

F. Governor: Adjustable isochronous, with speed sensing.

2.6 ENGINE COOLING SYSTEM

A. Description: Closed loop, liquid cooled, with radiator factory mounted on engine-generator-set mounting frame and integral engine-driven coolant pump.

B. Radiator: Rated for specified coolant.

C. Coolant: Solution of 50 percent ethylene-glycol-based antifreeze and 50 percent water, with anticorrosion additives as recommended by engine manufacturer.

D. Expansion Tank: Constructed of welded steel plate and rated to withstand maximum closed-loop coolant system pressure for engine used. Equip with gage glass and petcock.

E. Temperature Control: Self-contained, thermostatic-control valve modulates coolant flow automatically to maintain optimum constant coolant temperature as recommended by engine manufacturer.

F. Coolant Hose: Flexible assembly with inside surface of nonporous rubber and outer covering of aging-, ultraviolet-, and abrasion-resistant fabric.
   1. Rating: 50-psig maximum working pressure with coolant at 180 deg F, and noncollapsible under vacuum.
   2. End Fittings: Flanges or steel pipe nipples with clamps to suit piping and equipment connections.

2.7 FUEL SUPPLY SYSTEM

A. Comply with NFPA 30.

B. Base-Mounted Fuel Oil Tank: Factory installed and piped, complying with UL 142 fuel oil tank. Features include the following:
   1. Tank level indicator.
   2. Capacity: Fuel for forty (48) eight hours continuous operation at 100 percent rated power output.
   3. Vandal-resistant fill cap.
   4. Containment Provisions: Comply with requirements of authorities having jurisdiction.
      a. Double Wall.
      b. Tank gauging
      c. Overfill protection
      d. Leak detection.
   5. Provide full tank diesel fuel with anti-gel inhibitors.

2.8 ENGINE EXHAUST SYSTEM

A. Muffler: Critical type, sized as recommended by engine manufacturer; sound level measured at a distance of 10 feet from exhaust discharge shall be 85 dBA or less.

B. Condensate Drain for Muffler: Schedule 40, black steel pipe connected to muffler drain outlet through a petcock.

C. Connection from Engine to Exhaust System: Flexible section of corrugated stainless-steel pipe.

D. Connection from Exhaust Pipe to Muffler: Stainless-steel expansion joint with liner.

E. Muffler shall be internal to weatherproof housing.

2.9 COMBUSTION-AIR INTAKE

A. Description: Heavy-duty, engine-mounted air cleaner with replaceable dry-filter element and "blocked filter" indicator.

2.10 STARTING SYSTEM

A. Description: 24 -V electric, with negative ground and including the following items:
   1. Components: Sized so they will not be damaged during a full engine-cranking cycle with ambient temperature at maximum specified in "Environmental Conditions" Paragraph in "Service Conditions" Article.
   2. Cranking Motor: Heavy-duty unit that automatically engages and releases from engine flywheel without binding.
   3. Battery: Adequate capacity within ambient temperature range specified in "Environmental Conditions" Paragraph in "Service Conditions" Article to provide specified cranking cycle at least three times without recharging.
   4. Battery Cable: Size as recommended by engine manufacturer for cable length indicated. Include required interconnecting conductors and connection accessories.
   5. Battery Compartment: Factory fabricated of metal with acid-resistant finish and thermal insulation. Thermostatically controlled heater shall be arranged to maintain battery above 10 deg C regardless of external ambient temperature within range specified in "Environmental Conditions" Paragraph in "Service Conditions" Article. Include accessories required to support and fasten batteries in place.
   6. Battery-Charging Alternator: Factory mounted on engine with solid-state voltage regulation and 35-A minimum continuous rating.
   7. Battery Charger: Current-limiting, automatic-equalizing and float-charging type. Unit shall comply with UL 1236 and include the following features:
      a. Operation: Equalizing-charging rate of 10 A shall be initiated automatically after battery has lost charge until an adjustable equalizing voltage is achieved at battery terminals. Unit shall then be automatically switched to a lower float-charging mode and shall continue to operate in that mode until battery is discharged again.
      b. Automatic Temperature Compensation: Adjust float and equalize voltages for variations in ambient temperature from minus 40 deg C to plus 60 deg C to prevent overcharging at high temperatures and undercharging at low temperatures.
      c. Automatic Voltage Regulation: Maintain constant output voltage regardless of input voltage variations up to plus or minus 10 percent.
      d. Ammeter and Voltmeter: Flush mounted in door. Meters shall indicate charging rates.
      e. Safety Functions: Sense abnormally low battery voltage and close contacts providing low battery voltage indication on control and monitoring panel. Sense high battery voltage and loss of ac input or dc output of battery charger. Either condition shall close contacts that provide a battery-charger malfunction indication at system control and monitoring panel.
      f. Enclosure and Mounting: NEMA 250, Type 1, wall-mounted cabinet.

2.11 CONTROL AND MONITORING

A. Functional Description: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of the generator set. When mode-selector switch is switched to the on position, the generator set starts. The off position of the same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down the generator set and initiate alarms. Operation of a remote emergency-stop switch also shuts down the generator set.

B. Functional Description: Switching on-off switch on the generator control panel to the on position starts the generator set. The off position of the same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down the generator set and initiate alarms. Operation of a remote emergency-stop switch also shuts down the generator set.

C. Configuration: Operating and safety indications, protective devices, basic system controls, and engine gages shall be grouped in a common control and monitoring panel mounted on the generator set. Mounting method shall isolate the control panel from generator-set vibration.

D. Indicating and Protective Devices and Controls:
1. AC voltmeter.
2. AC ammeter.
3. AC frequency meter.
4. DC voltmeter (alternator battery charging).
5. Engine-coolant temperature gage.
6. Engine lubricating-oil pressure gage.
7. Running-time meter.
8. Ammeter-voltmeter, phase-selector switch(es).
9. Generator-voltage adjusting rheostat.
10. Start-stop switch.
11. Overspeed shutdown device.
12. Coolant high-temperature shutdown device.
13. Coolant low-level shutdown device.
14. Oil low-pressure shutdown device.
15. Fuel tank derangement alarm.
16. Fuel tank high-level shutdown of fuel supply alarm.
17. Generator overload.

E. Supporting Items: Include sensors, transducers, terminals, relays, and other devices and include wiring required to support specified items. Locate sensors and other supporting items on engine or generator, unless otherwise indicated.

F. Connection to Data Link: A separate terminal block, factory wired to Form C dry contacts, for each alarm and status indication is reserved for connections for data-link transmission of indications to remote data terminals.

G. Common Remote Audible Alarm: Comply with NFPA 110 requirements for Level 1 systems. Include necessary contacts and terminals in control and monitoring panel.

H. Remote Alarm Annunciator: Comply with NFPA 99. Labeled LED shall identify each alarm event. Common audible signal shall sound for alarm conditions. Silencing switch in face of panel shall silence signal without altering visual indication. Connect so that after an alarm is silenced, clearing of initiating condition will reactivate alarm until silencing switch is reset. Cabinet and faceplate are surface- or flush-mounting type to suit mounting conditions indicated. Mount in apparatus bay.

2.12 GENERATOR OVERCURRENT AND FAULT PROTECTION

A. Generator Circuit Breaker: Molded-case, thermal-magnetic type; 80 percent rated; complying with NEMA AB 1 and UL 489.
   1. Tripping Characteristic: Designed specifically for generator protection.
   2. Trip Rating: Matched to generator rating.
   3. Mounting: Adjacent to or integrated with control and monitoring panel.

B. Generator Protector: Microprocessor-based unit that continuously monitors current level in each phase of generator output, integrates generator heating effect over time, and predicts when thermal damage of the alternator will occur. When signaled by the protector or other generator-set protective devices, a shunt-trip device in the generator disconnect switch shall open the switch to disconnect the generator from the load circuits. Protector shall perform the following functions:
   1. Initiates a generator overload alarm when the generator has operated at an overload equivalent to 110 percent of full-rated load for 60 seconds. Indication for this alarm is integrated with other generator-set malfunction alarms.
   2. Under single phase fault conditions, regulates the generator to 300 percent of rated full-load current for up to 10 seconds.
   3. As the overcurrent heating effect on the generator approaches the thermal damage point of the unit, the protector switches the excitation system off, opens the generator disconnect device, and shuts down the generator set.
   4. Senses clearing of a fault by other overcurrent devices and controls recovery of rated voltage to avoid overshoot.

2.13 GENERATOR, EXCITER, AND VOLTAGE REGULATOR

A. Comply with NEMA MG 1 and specified performance requirements.

B. Drive: Generator shaft shall be directly connected to engine shaft. Exciter shall be rotated integrally with generator rotor.

C. Electrical Insulation: Class H or Class F.

D. Stator-Winding Leads: Brought out to terminal box to permit future reconnection for other voltages if required.

E. Construction shall prevent mechanical, electrical, and thermal damage due to vibration, overspeed up to 125 percent of rating, and heat during operation at 110 percent of rated capacity.

F. Excitation shall use no slip or collector rings, or brushes, and shall be arranged to sustain generator output under short-circuit conditions as specified.

G. Enclosure: Dripproof.

H. Instrument Transformers: Mounted within generator enclosure.

I. Voltage Regulator: Solid-state type, separate from exciter, providing performance as specified.
   1. Adjusting rheostat on control and monitoring panel shall provide plus or minus 5 percent adjustment of output-voltage operating band.

J. Strip Heater: Thermostatically controlled unit arranged to maintain stator windings above dew point.

K. Windings: Two-thirds pitch stator winding and fully linked amortisseur winding.

L. Subtransient Reactance: 12 percent, maximum.

2.14 OUTDOOR GENERATOR-SET ENCLOSURE

A. Description: Vandal-resistant, weatherproof steel housing, wind resistant up to 100 mph. Multiple panels shall be lockable and provide adequate access to components requiring maintenance. Panels shall be removable by one person without tools. Instruments and control shall be mounted within enclosure.

B. Description: Prefabricated or preengineered enclosure with the following features:
   1. Construction: Galvanized-steel, metal-clad, integral structural-steel-framed building erected on concrete foundation.
   2. Structural Design and Anchorage: Wind resistant up to 100 mph.
   3. Space Heater: Thermostatically controlled and sized to prevent condensation.
   4. Louvers: Equipped with bird screen and filter arranged to permit air circulation when engine is not running while excluding exterior dust, birds, and rodents.
   5. Hinged Doors: With padlocking provisions.
   6. Ventilation: Louvers equipped with bird screen and filter arranged to permit air circulation while excluding exterior dust, birds, and rodents.
   7. Thermal Insulation: Manufacturer's standard materials and thickness selected in coordination with space heater to maintain winter interior temperature within operating limits required by engine-generator-set components.
   8. Muffler Location: Within enclosure.

C. Engine Cooling Airflow through Enclosure: Maintain temperature rise of system components within required limits when unit operates at 110 percent of rated load for 2 hours with ambient temperature at top of range specified in system service conditions.
   1. Louvers: Fixed-engine cooling-air inlet and discharge. Storm-proof and drainable louvers prevent entry of rain and snow.
   2. Automatic Dampers: At engine cooling-air inlet and discharge. Dampers shall be closed to reduce enclosure heat loss in cold weather when unit is not operating.

2.15 FINISHES

A. Indoor and Outdoor Enclosures and Components: Manufacturer's standard enamel over corrosion-resistant pretreatment and compatible standard primer.

2.16 SOURCE QUALITY CONTROL

A. Prototype Testing: Factory test engine-generator set using same engine model, constructed of identical or equivalent components and equipped with identical or equivalent accessories.
   1. Tests: Comply with NFPA 110, Level 1 energy converters in Paragraphs 3.2.1, 3.2.1.1, and 3.2.1.2.
   2. Generator Tests: Comply with IEEE 115.
   3. Components and Accessories: Items furnished with installed unit that are not identical to those on tested prototype shall have been factory tested to demonstrate compatibility and reliability.

B. Project-Specific Equipment Tests: Before shipment, factory test engine-generator set and other system components and accessories manufactured specifically for this Project. Perform tests at rated load and power factor. Include the following tests:
   1. Full load run.
   2. Maximum power.
   3. Voltage regulation.
   4. Transient and steady-state governing.
   5. Single-step load pickup.
   6. Safety shutdown.
   7. Observation of Factory Tests: Provide 14 days' advance notice of tests and opportunity for observation of tests by Owner's representative.

C. Report factory test results within 10 days of completion of test.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas, equipment bases, and conditions, with Installer present, for compliance with requirements for installation and other conditions affecting packaged engine-generator performance.

B. Examine roughing-in of piping systems and electrical connections. Verify actual locations of connections before packaged engine-generator installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 CONCRETE BASES

A. Coordinate size and location of concrete bases. Verify structural requirements with structural engineer.

3.3 INSTALLATION

A. Comply with packaged engine-generator manufacturers' written installation and alignment instructions and with NFPA 110.

B. Install packaged engine generators level on concrete base.

C. Install packaged engine generator to provide access, without removing connections or accessories, for periodic maintenance.

D. Electrical Wiring: Install electrical devices furnished by equipment manufacturers but not specified to be factory mounted.

3.4 CONNECTIONS

A. Ground equipment according to Division 16 Section "Grounding and Bonding."

B. Connect wiring according to Division 16 Section "Conductors and Cables."

C. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

3.5 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections, and to assist in field testing. Report results in writing.

B. Perform the following field tests and inspections and prepare test reports:
   1. Perform each electrical test and visual and mechanical inspection stated in NETA ATS, Sections 7.15.2.1 and 7.22.1 (except for vibration baseline test). Certify compliance with test parameters.
   2. Perform tests recommended by manufacturer.
   3. NFPA 110 Acceptance Tests: Perform tests required by NFPA 110 that are additional to those specified here including, but not limited to, the following:
      a. Single-step full-load pickup test.
   4. Battery Tests: Equalize charging of battery cells according to manufacturer's written instructions. Record individual cell voltages.
      a. Measure charging voltage and voltages between available battery terminals for full-charging and float-charging conditions. Check electrolyte level and specific gravity under both conditions.
      b. Test for contact integrity of all connectors. Perform an integrity load test and a capacity load test for the battery.
      c. Verify acceptance of charge for each element of the battery after discharge.
      d. Verify that measurements are within manufacturer's specifications.
   5. Battery-Charger Tests: Verify specified rates of charge for both equalizing and float-charging conditions.
   6. System Integrity Tests: Methodically verify proper installation, connection, and integrity of each element of engine-generator system before and during system operation. Check for air, exhaust, and fluid leaks.
   7. Exhaust-System Back-Pressure Test: Use a manometer with a scale exceeding 40-inch wg. Connect to exhaust line close to engine exhaust manifold. Verify that back pressure at full-rated load is within manufacturer's written allowable limits for the engine.
   8. Exhaust Emissions Test: Comply with applicable government test criteria.
   9. Voltage and Frequency Transient Stability Tests: Use recording oscilloscope to measure voltage and frequency transients for 50 and 100 percent step-load increases and decreases, and verify that performance is as specified.
   10. Harmonic-Content Tests: Measure harmonic content of output voltage under 25 percent and at 100 percent of rated linear load. Verify that harmonic content is within specified limits.

C. Coordinate tests with tests for transfer switches and run them concurrently.

D. Test instruments shall have been calibrated within the last 12 months, traceable to standards of the National Institute for Standards and Technology, and adequate for making positive observation of test results. Make calibration records available for examination on request.

E. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.

F. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.

G. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

H. Remove and replace malfunctioning units and retest as specified above.

I. Retest: Correct deficiencies identified by tests and observations and retest until specified requirements are met.

J. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation resistances, time delays, and other values and observations. Attach a label or tag to each tested component indicating satisfactory completion of tests.

3.6 STARTUP SERVICE

A. Engage a factory-authorized service representative to perform startup service.

B. Inspect field-assembled components and equipment installation, including piping and electrical connections. Report results in writing.

C. Complete installation and startup checks according to manufacturer's written instructions.

D. Provide full tank of fuel.

3.7 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain packaged engine generators.
   1. Coordinate this training with that for transfer switches.

END OF SECTION 26 32 13

SECTION 32 92 19
SEEDING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preparation of subsoil.

B. Placing topsoil.

C. Seeding, mulching and fertilizer.

1.02 RELATED REQUIREMENTS

A. Section 31 22 00 - Grading.

1.03 REFERENCE STANDARDS

A. ASTM D7322/D7322M - Standard Test Method for Determination of Erosion Control Product (ECP) Ability to Encourage Seed Germination and Plant Growth Under Bench-Scale Conditions; 2023.

1.04 DEFINITIONS

A. Weeds: Include Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, and Brome Grass.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product data: Submit a label from one of the seed bags which is representative of all seed to be used.

C. Maintenance Data: Include maintenance instructions, cutting method and maximum grass height; types, application frequency, and recommended coverage of fertilizer ; and recommended practices for irrigation.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver grass seed mixture in sealed containers. Seed in damaged packaging is not acceptable. Deliver seed mixture in containers showing percentage of seed mix, year of production, net weight, date of packaging, and location of packaging.

PART 2 PRODUCTS

2.01 SEED MIXTURE

A. Fresh, clean, dry, new-crop seed complying iwht AOSA's "Rules for Testing Seeds" for purity and germination tolerances.

B. Provide seed in sealed containers. Wet, moldy, or otherwise damaged seed is not accepatble.

C. Seed Mixture:
   1. "Macho Mix" or approved equal.
      a. 94% blend of tall fescue varieties, 90% germination.
      b. 5% perennial rye grass, 85% germination.
      c. Other crop seeds, 0%
      d. Inert matter, 1%
      e. Weed seeds, 0%.
   2. Rate of application: 12 pounds per 1,000 square feet.

2.02 SOIL MATERIALS

A. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay, gravel or impurities, plants, weeds and roots; pH value of minimum 5.4 and maximum 7.0.

2.03 ACCESSORIES

A. Mulching Material: Oat or wheat straw, free from weeds, foreign matter detrimental to plant life, and dry. Hay or chopped cornstalks are not acceptable.

B. Fertilizer: Recommended for grass, with 50 percent of the elements derived from organic sources; of proportion necessary to eliminate deficiencies of topsoil, to the following proportions:
   1. Nitrogen: 12 percent.
   2. Phosphoric Acid: 12 percent.
   3. Soluble Potash: 12 percent.

C. Water: Clean, fresh and free of substances or matter that could inhibit vigorous growth of grass.

D. Erosion Fabric: Jute matting, open weave.

E. Stakes: Softwood lumber, chisel pointed.

F. Edging: Galvanized steel.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that prepared soil base is ready to receive the work of this Section.

3.02 PREPARATION

A. Prepare subgrade in accordance with Section 31 22 00.

B. Place topsoil in accordance with Section 32 91 19.

C. Install edging at periphery of seeded areas in straight lines to consistent depth.

3.03 FERTILIZING

A. Apply fertilizer in accordance with manufacturer's instructions.

B. Apply after smooth raking of topsoil and prior to roller compaction.

C. Do not apply fertilizer at same time or with same machine as will be used to apply seed.

D. Mix thoroughly into upper 2 inches of topsoil.

E. Lightly water to aid the dissipation of fertilizer.

3.04 SEEDING

A. Apply seed at a rate of 12 lbs per 1000 sq ft evenly in two intersecting directions. Rake in lightly.

B. Do not seed areas in excess of that which can be mulched on same day.

C. Planting Season: March 1 through May 15, or September 1 through November 15.

D. Do not sow immediately following rain, when ground is too dry, or during windy periods.

E. Roll seeded area with roller not exceeding 112 lbs.

F. Immediately following seeding and compacting, apply mulch to a thickness of 1/8 inches. Maintain clear of shrubs and trees.

G. Protect seeded areas with slopes exceeding 1:3 by use of straw grass seed germination blankets. Pin blankets to the ground at a rate of one pin every ten feet.

H. Apply water with a fine spray immediately after each area has been mulched. Saturate to 4 inches of soil.

I. Following germination, immediately re-seed areas without germinated seeds that are larger than 4 by 4 inches.

3.05 HYDROSEEDING (OPTIONAL)

A. Apply seeded slurry with a hydraulic seeder at a rate to provide seed in quantity specified above, evenly in two intersecting directions.

B. Do not hydroseed area in excess of that which can be mulched on same day.

C. Immediately following seeding, apply mulch to a thickness of 1/8 inches. Maintain clear of shrubs and trees.

D. Apply water with a fine spray immediately after each area has been mulched. Saturate to 4 inches of soil.

E. Following germination, immediately re-seed areas without germinated seeds that are larger than 4 by 4 inches.

3.06 PROTECTION

A. Cover seeded slopes where grade is 4 inches per foot or greater with erosion fabric. Roll fabric onto slopes without stretching or pulling.

B. Secure outside edges and overlaps at 36 inch intervals with stakes.

C. Lightly dress slopes with topsoil to ensure close contact between fabric and soil.

D. At sides of ditches, lay fabric laps in direction of water flow. Lap ends and edges minimum 6 inches.

3.07 MAINTENANCE

A. See Section 01 70 00 - Execution Requirements, for additional requirements relating to maintenance service.

3.08 SATISFACTORY TURF

A. At end of the maintenance period, a healthy uniform, close stand of grass, free of weeds ans surface irregularities, with coverage exceeding 90% over any 10 square feet and bare spots not exceeding 4 by 4 inhes.

END OF SECTION

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MERAMEC AMBULANCE DISTRICT - STATION NO. 4

385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

BIDDING DOCUMENTS

10/16/2026



SHEET INDEX

SHEET NUMBER	SHEET NAME	PERMIT DOCUMENTS: 4/13/2026	PERMIT DOCS - REVISED: 10/02/2026	PLAN REVIEW CORRECTIONS: 10/15/2026 (A)	BIDDING DOCUMENTS: 10/16/2026	ADDENDUM 01: 10/30/2026 (1)
GENERAL						
G001	COVER SHEET	■	■	■	■	■
CIVIL						
C1.0	TITLE SHEET	■	■		■	
C2.0	SPECIFICATIONS SHEET	■	■		■	
C3.0	EXISTING CONDITIONS & FACILITIES REMOVAL PLAN	■	■		■	
C4.0	SITE AND GRADING PLAN	■	■		■	
C5.0	SITE GEOMETRY AND UTILITY PLAN	■	■	■	■	■
C6.0	SEWER PROFILES & DETAILS	■	■		■	
C7.0	SITE DETAILS	■	■		■	
C8.0	DRAINAGE AREA PLANS	■	■		■	
C9.0	STORMWATER POLLUTION PREVENTION PLAN	■	■		■	
C9.1	STORMWATER POLLUTION PREVENTION PLAN DETAILS	■	■		■	
ARCHITECTURAL						
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A011	LIFE SAFETY PLAN	■	■		■	
AS101	ARCHITECTURAL SITE PLAN	■	■		■	
A101	OVERALL FLOOR PLAN	■	■		■	
A102	ANNOTATED FLOOR PLAN	■	■		■	■
A103	OVERALL ATTIC PLAN	■	■		■	
A111	OVERALL CEILING PLAN & DETAILS	■	■		■	■
A121	ROOF PLAN & DETAILS	■	■		■	
A201	EXTERIOR ELEVATIONS	■	■		■	■
A301	BUILDING SECTIONS	■	■		■	
A311	WALL SECTIONS	■	■		■	
A312	WALL SECTIONS	■	■		■	
A313	WALL SECTIONS	■	■		■	
A321	OVERHEAD & HM DOOR DETAILS	■	■		■	
A322	SECTION DETAILS	■	■		■	
A331	PLAN DETAILS	■	■		■	
A431	INTERIOR ELEVATIONS DECON	■	■		■	
A432	INTERIOR ELEVATIONS KITCHEN	■	■		■	
A433	INTERIOR ELEVATIONS BUNKS	■	■		■	
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A501	PARTITION TYPES	■	■		■	
A521	CASEWORK DETAILS	■	■		■	
A522	WOOD CASEWORK DETAILS	■	■		■	
A531	CEILING DETAILS					■
A601	DOOR SCHEDULE & DETAILS	■	■	■	■	
A701	FINISH FLOOR PLAN, FINISH SCHED.	■	■		■	
A801	FURNITURE & EQUIPMENT PLAN	■	■		■	
A811	SIGNAGE		■		■	
ALT-1	ALTERNATE 2&4 CEILING PLAN & DTLS (SHEET DELETED)		■		■	■
STRUCTURAL						
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S102	GENERAL NOTES	■	■		■	
S103	SPECIAL INSPECTIONS	■	■		■	
S104	TYPICAL DETAILS	■	■		■	
S105	TYPICAL DETAILS	■	■		■	
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MECHANICAL						
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M201	MECHANICAL PLAN	■	■	■	■	
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M203	MECHANICAL PIPING PLAN	■	■		■	
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M501	MECHANICAL DETAILS	■	■		■	
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PLUMBING						
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P200	PLUMBING UNDERFLOOR PLAN	■	■		■	
P201	PLUMBING PLAN	■	■		■	
P401	PLUMBING RISER DIAGRAMS	■	■		■	
P501	PLUMBING DETAILS	■	■		■	
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ELECTRICAL						
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E202	EQUIPMENT POWER PLAN	■	■		■	
E301	LIGHTING PLAN	■	■		■	
E401	AUXILIARY PLAN	■	■		■	
E402	FIRE ALARM PLAN	■	■	■	■	
E501	ELECTRICAL SCHEDULES	■	■	■	■	
E502	ELECTRICAL DETAILS	■	■		■	

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www.hornershifrin.com

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VILLA RIDGE, MO 63089
T: 636-451-5816

OWNER REPRESENTATIVE

NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
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www.navigatebuildingsolutions.com

PROJECT ADDRESS

MERAMEC EMS - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

PROJECT LOCATION



STATE MAP

MO



ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/30/2026
MO Architect License No: A-6661
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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/13/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
A	10/15/2026	PLAN REVIEW CORRECTIONS
	10/16/2026	BIDDING DOCUMENTS
1	10/30/2026	ADDENDUM 01

COVER SHEET

Project No.
25083

Sheet No.
G001

Date
10/16/2026

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BID ITEMS

BASE BID ITEMS

- HEAVY DUTY CONCRETE PAVEMENT FOR DRIVES
- LIGHT DUTY CONCRETE PAVEMENT FOR PARKING STALLS
- MONOLITHIC CURB AND WALK
- 6" BARRIER CURB AT INTERIOR ISLAND AND BACK OF BUILDING
- NO CURB AT EDGE OF PAVEMENT
- AT GARAGE ENTRANCE AND EXIT, TAPER CURB DOWN TO 0" AT BUILDING
- AT ADA RAMP, END NO CURB

ALTERNATE #1 BID ITEMS

- HEAVY DUTY ASPHALT PAVEMENT FOR DRIVES
- LIGHT DUTY ASPHALT PAVEMENT FOR PARKING STALLS
- MONOLITHIC CURB AND WALK
- 6" VERTICAL CURB AT INTERIOR ISLAND AND BACK OF BUILDING
- FLUSH CURB AT EDGE OF PAVEMENT
- AT GARAGE ENTRANCE AND EXIT, TAPER CURB DOWN TO 0" AT BUILDING
- AT ADA RAMP, END FLUSH CURB

ALL DISTURBED AREAS SHALL RECEIVE SOD AND HYDROSEED

Once sod and hydroseed has been installed, GC will be responsible to water a half inch a day in the morning for three weeks or until the hydroseed germinates and the sob begins to take root. During summer or warmer months, the sod/hydroseed should be watered a second time in the afternoon as well. This would not be the full half inch, but enough to make moist again.

NOTES:

1. FRANKLIN COUNTY HIGHWAY DEPARTMENT PERMIT REQUIRED FOR ALL WORK IN RIGHT-OF-WAY.
2. FRANKLIN COUNTY HIGHWAY DEPARTMENT FOR PERMIT FOR WORK IN MANCHESTER ROAD RIGHT OF WAY.

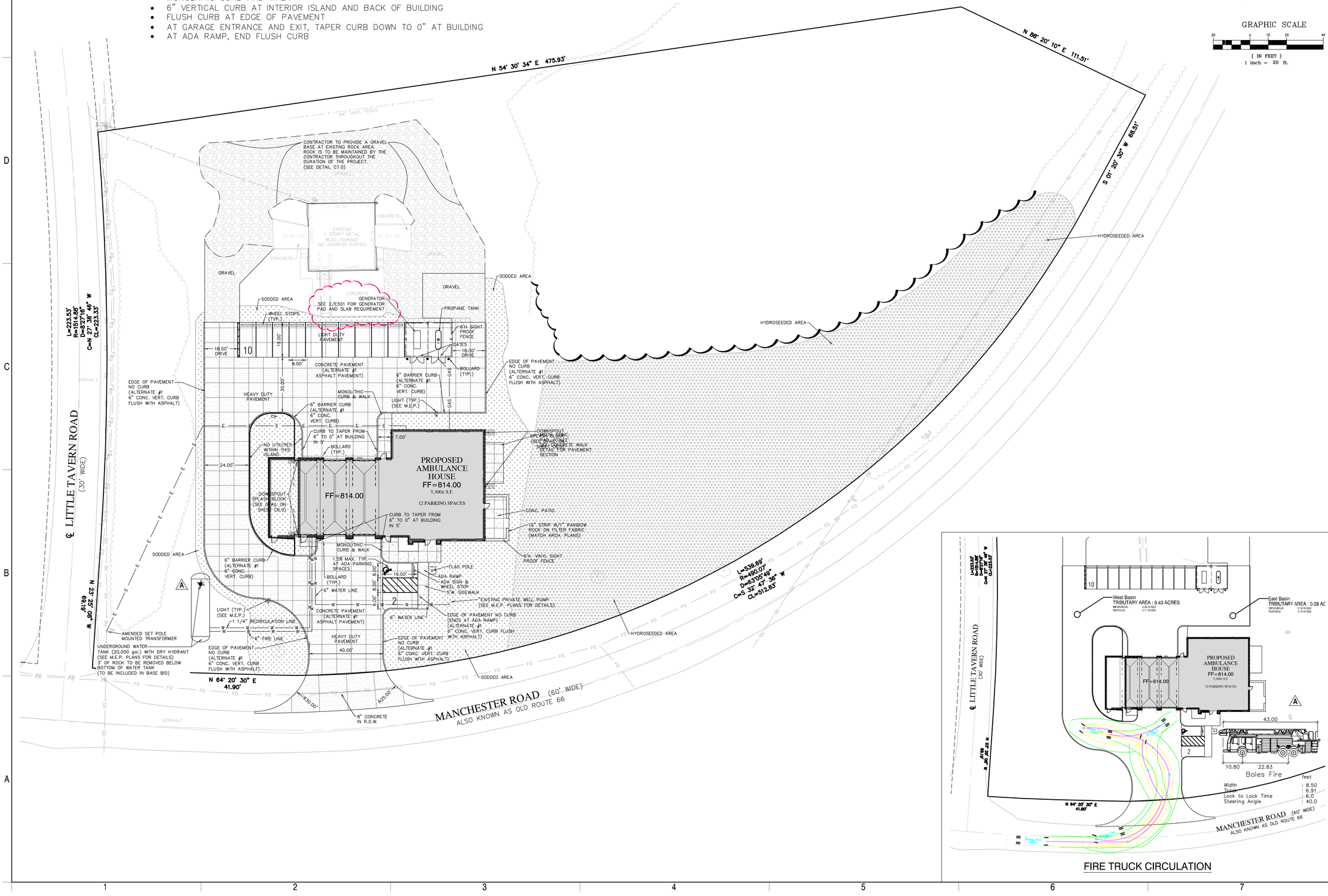
LEGEND

- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL
- SODDED AREA
- HYDROSEEDED AREA

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



FIRE TRUCK CIRCULATION

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PROFESSIONAL ENGINEER
CEDC LICENSE NO.: 2003004674

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Proposed:
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
365 OLD MANCHESTER ROAD
PACIFIC, MO 63069

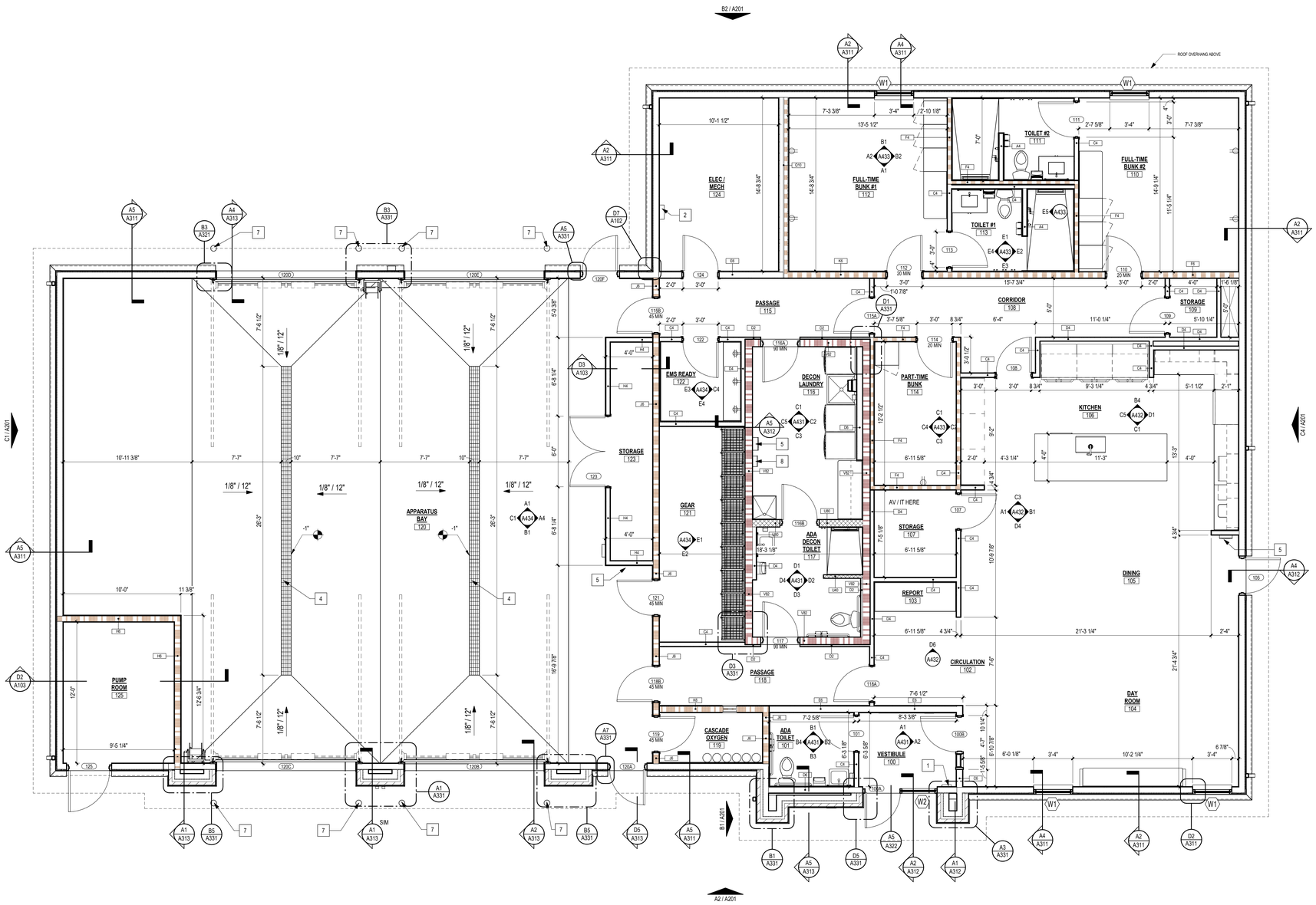
No.	Date	Revision
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A	10/15/2026	PLAN REVIEW CORRECTIONS
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1	10/30/2026	ADDENDUM 01

SITE GEOMETRY AND UTILITY PLAN

Project No.
CEDC 2621

C5.0

Date
10/16/2026



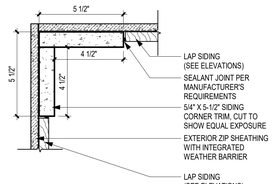
A1 ANNOTED FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS. ANY WOOD BLOCKING SHALL BE FIRE TREATED.
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF PARTITIONS AND PERIMETER WALLS UNLESS NOTED OTHERWISE.
4. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS SCHEDULED IN THE FINISH FLOOR PLAN.
5. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
6. INTENT OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK IS REFLECTED ON THE DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR FULL EXTENT OF WORK.
7. PROVIDE 5/8" THK. MOLD & MOISTURE RESISTANT GYPSUM WALL BOARD TO ALL APPARATUS BAY WALLS AND BEHIND WET AREAS WHERE CEMENTITIOUS BACKER BOARD DOES NOT OCCUR.

KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
1	FIRE ALARM ANNUNCIATOR PANEL
2	MAIN FIRE ALARM PANEL
4	TRENCH DRAIN - SEE PLUMBING DRAWINGS
5	FIRE EXTINGUISHER
7	SITE BOLLARD
8	FIRST AID KIT



D7 TYPICAL TRIM INSIDE CORNER DETAIL
3" = 1'-0"

ALTERNATE 4:
LP SMARTSIDE OUTSIDE CORNER TRIM

NOTE: THIS CORNER TRIM DETAIL REPLACES DETAIL C7/A102 IF LP SMARTSIDE ALTERNATE IS ACCEPTED

C7 TYPICAL TRIM OUTSIDE CORNER DETAIL
3" = 1'-0"

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	10/02/2026
	PERMIT DOCUMENTS - REVISED	10/16/2026
	BIDDING DOCUMENTS	10/16/2026
1	ADDENDUM 01	10/30/2026

ANNOTATED FLOOR PLAN

Project No.
25083

Sheet No.
A102

Date
10/16/2026

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SEISMIC BRACING NOTES:

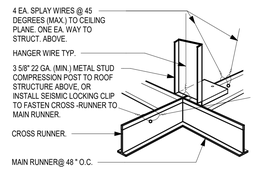
1. ALL SUSPENSION SYSTEM COMPONENTS TO PROVIDED FROM A SINGLE ICC-ES APPROVED MANUFACTURER.
2. ALL BRACING WIRE TO BE ATTACHED PARALLEL TO THE COMPONENT AND AT MAX. OF 45 DEGREES TO THE PLANE OF THE CEILING.
3. ALL BRACING WIRES TO BE TAUT AND TIED BOTH ENDS W/ A MIN. OF 3 TURNS.
4. SECURE ALL WIRES TO STRUCTURE ABOVE. DO NOT SECURE TO PIPES,DUCTS, CONDUITS, ETC.
5. RING NAILS SHALL BE INSTALLED AT ALL COMPONENT INTERSECTIONS W/ THE HORIZONTAL STRUT AT UNATTACHED WALLS.
6. THE HORIZONTAL SPACER BAR SHALL RUN CONTINUOUS AT ALL PERIMETERS NOT ATTACHED TO THE WALL ANGLE.
7. INSTALLATION MUST CONFORM TO CISCA RECOMMENDATIONS.
8. MIN. HEAVY DUTY GRID SYSTEM.
9. SEE CEILING SYSTEM SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
10. WHERE WIRE MUST BEAR AGAINST PIPES AND DUCTS, APPLY TAPE TO PIPES AND DUCTS.
11. SEISMICALLY BRACE LIGHT FIXTURES, DIFFUSERS, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
12. WALL ANGLE TO BE MIN. 7/8"x 7/8" OR 15/16" X15/16" AND PROVIDE ICC-ES APPROVED SEISMIC CLIP IN ALL ROOM AREAS.

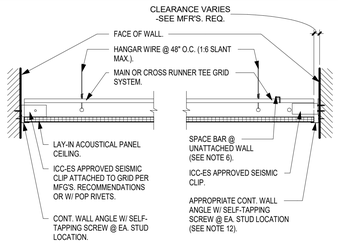
NOTE:
COMPLY WITH IBC 2009 SECTION 1613 (CATEGORY D) AND CISCA RECOMMENDATIONS FOR DIRECT HUNG ACOUSTICAL TILE AND LAY IN PANELS. NOTE THAT THE FOLLOWING DOES NOT APPLY TO CEILING AREAS OFF 1445F OR LESS SURROUNDED BY PARTITIONS THAT CONNECT DIRECTLY TO THE STRUCTURE ABOVE. NOTE THAT REQUIREMENTS FOR SECSMIC DESIGN D PROHIBIT THE USE OF POWER DRIVER FASTENERS FOR BRACING COMPONENTS PULL OUT TESTING OF FASTENERS IS REQUIRED.

NOTE:
PANEL POINTS OCCUR 6'-0" (MAX.) FROM PERIMETER AND 12'-0" O.C. EACH WAY.

ALL SEISMIC RESTRAINT BRACING SHALL COMPLY WITH ASTM E 580.

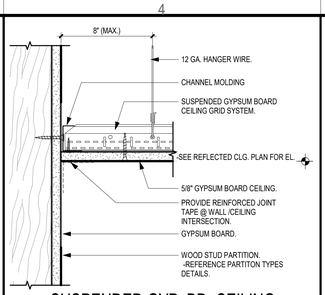
APPROVED ICC-ES MANUFACTURER'S AMD TESTS:
ARMSTRONG - ICC ESR-1308
CHICAGO METALLIC - ICC ESR=2728
USG - ICC ESXR-1222





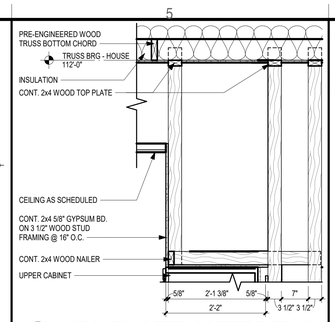
ATTACHED WALLS
(MIN. 2 ADJACENT WALLS) (OPPOSITE ATTACHED WALLS)

E1 TYPICAL SEISMIC RESTRAINT DETAIL FOR ACOUSTICAL LAY-IN CEILINGS AT ZONES D, E, AND F
N.T.S.

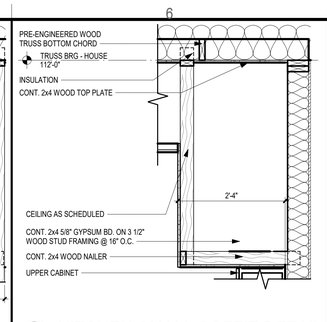


E4 SUSPENDED GYP. BD. CEILING DETAIL @ GYP. BD. PARTITION
3" = 1'-0"

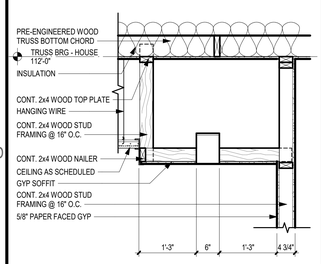
09.50.00. 12 SUS GYP CLG DET _WD S_ 1W X 1H



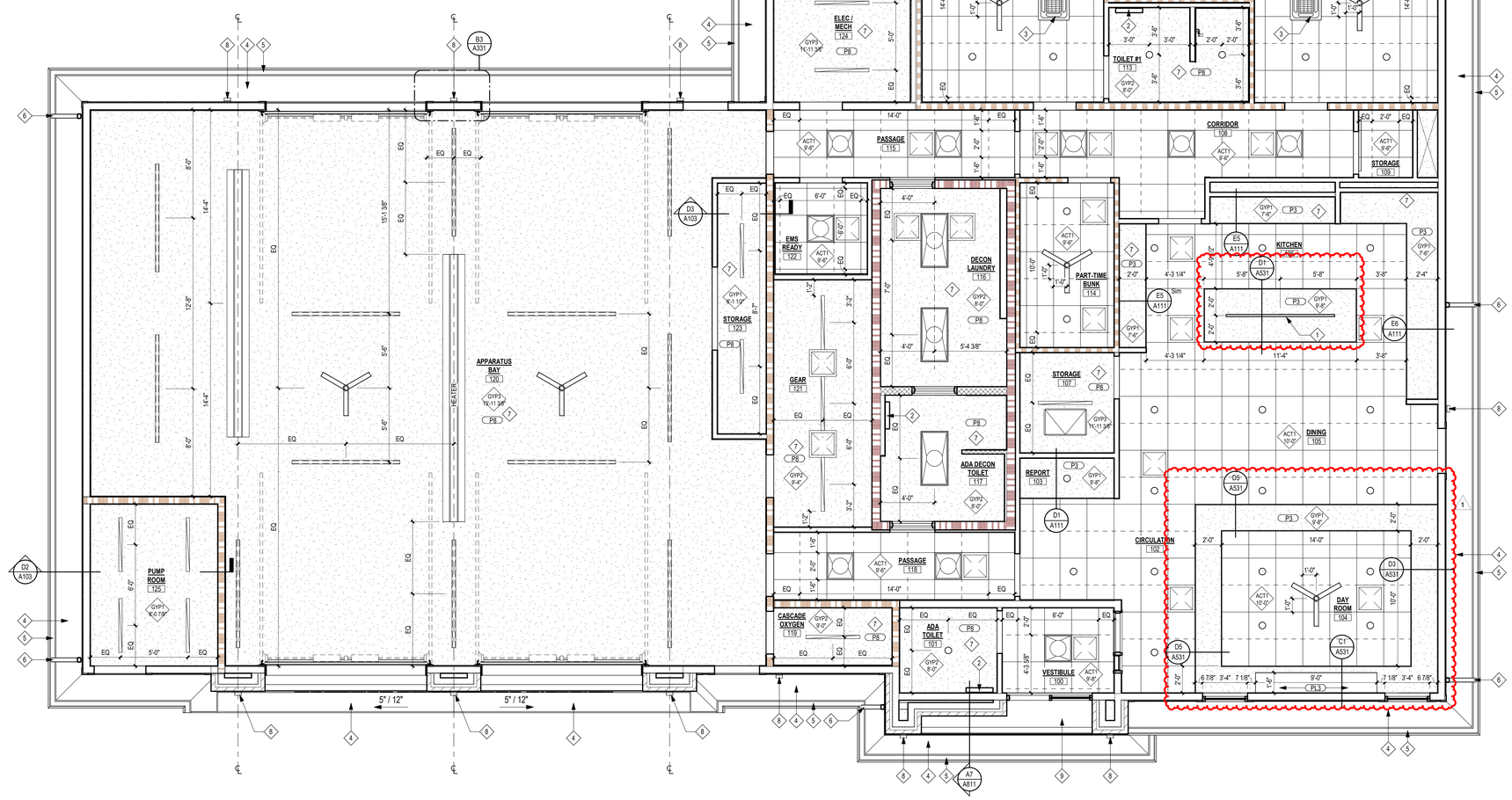
E5 KITCHEN DEEP SOFFIT DETAIL
3/4" = 1'-0"



E6 KITCHEN SMALL SOFFIT DETAIL
3/4" = 1'-0"



D1 REPORT SOFFIT DETAIL
3/4" = 1'-0"



A1 REFLECTED CEILING PLAN
1/4" = 1'-0"

CEILING PLAN GENERAL NOTES

1. INSTALL ACOUSTIC SOUND BATT INSULATION OVER ALL PARTITIONS ABOVE CEILING TO 24" EA. SIDE OF PARTITION, TYP.
2. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.
3. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
4. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
5. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
6. PAINT ALL GYPSUM BOARD SOFFITS AND CEILINGS. REFERENCE REFLECTED CEILING PLAN.
7. ALL FLOATING "CLOUD" CEILINGS ARE TO BE HUNG WITH AIRCRAFT CABLE (NO EXCEPTIONS) IF APPLICABLE TO THIS PROJECT.
8. SUPPLY AND INSTALL SOUND BOOTS ON ALL DIFFUSERS OPEN TO THE CEILING PLENUM, TYP.
9. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
10. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
11. REFERENCE ELECTRICAL DRAWINGS FOR BALANCE OF LIGHTING INFORMATION. NOTE: ALL FIXTURES LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
12. WHERE SPRINKLERS ARE USED, REFERENCE FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS. THIS DRAWING IS FOR COORDINATION CONCEPTS ONLY. **NOTE:** ALL SPRINKLER HEADS LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
13. WHERE SPRINKLER SYSTEMS ARE USED PROVIDE CONCEALED WHITE SPRINKLERS AT ALL GYPSUM BOARD CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE
14. FIRE PROTECTION DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SPRINKLER LINES AND DEVICES IN THE AREA OF WORK TO PROVIDE PROPER COVERAGE PER GOVERNING CODES. SPRINKLER HEADS TO MATCH BUILDING STANDARD. VERIFY WORK REQUIRED.
15. PROVIDE 5/8" THK. MOLD & MOISTURE RESISTANT GYPSUM BOARD TO ALL APPARATUS BAY CEILINGS.

CEILING PLAN LEGEND

NOTES:
- SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.

	SECOND LOOK (SIMULATED 2'X2' PANEL) 2' X 4' LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM.
	PAINTED SUSPENDED 5/8" FLAT GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
	RECESSED LAY-IN LIGHT FIXTURE 2' x 2' OR 2' x 4' AS SHOWN
	SURFACE MOUNTED LINEAR LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	CEILING MOUNTED FAN
ACT1	SECOND LOOK (SIMULATED 2'X2' PANEL) 2' X 4' LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM.
GYP1	PAINTED 5/8" FLAT GYPSUM BOARD CEILING ON 2X WOOD FRAMING. PROVIDE APPLICABLE DRAFT & FIRE STOPPING AS REQUIRED.
GYP2	PAINTED SUSPENDED 5/8" FLAT GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
GYP3	PAINTED 5/8" FLAT GYPSUM BOARD CEILING DIRECT CONNECTED TO BOTTOM CHORD OF TRUSS.
P3	PAINT – GYP BD. CEILINGS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, FLAT COLOR: SW7005 PURE WHITE
P4	PAINT – WALLS – ACCENT WALL OFFICE & BUNKS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW7018 DOVETAIL
P8	PAINT – APP BAY CLGS, DECON CLGS MFGR: SHERWIN WILLIAMS SERIES: EPOXY, FINISH: SEMI GLOSS COLOR: SW7005 PURE WHITE

KEYED NOTES REF. CLG. PLAN

MARK	DESCRIPTION
1	SUSPENDED LINEAR PENDANT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
2	WALL MOUNTED LIGHT SCONCE - REFER ELECTRICAL
3	4-WAY CEILING CASSETTE- REFER MEP
4	VENTEDSOFFIT PANELS (24" WIDE)
5	6" W x 6" H PRE-FINISHED METAL GUTTER, OCOEE PROFILE. SEE APPLICABLE DETAILS AND REFERENCE EXTERIOR BUILDING MATERIALS LEGEND.
6	4" W x 3" D PRE-FINISHED METAL DOWNSPOUT. SEE APPLICABLE DETAILS AND REFERENCE EXTERIOR BUILDING MATERIALS LEGEND.
7	GYP BOARD CEILINGS, PAINT COLOR AS INDICATED
8	EXTERIOR WALL LIGHT - SEE ELEVATION FOR MOUNTING HEIGHT
9	SOF-2 UNVENTED SOFFIT PANELS

STATE OF MISSOURI
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ARCHITECT
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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

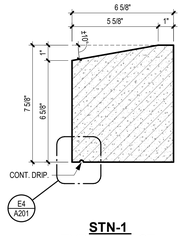
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	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS
1	10/30/2026	ADDENDUM 01

OVERALL CEILING PLAN & DETAILS

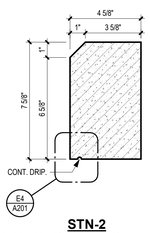
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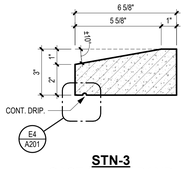
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STN-1
TYPICAL CAST STONE BAND



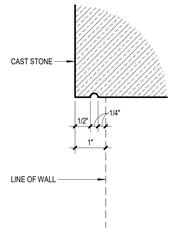
STN-2
CAST STONE BAND AT FULL HT. BRICK VENEER WALLS



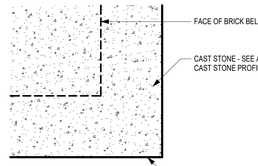
STN-3
CAST STONE BAND @ ENTRY TOWER

E1 TYPICAL CAST STONE PROFILES
3" = 1'-0"

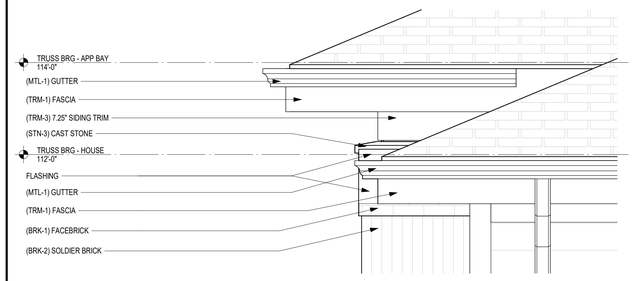
CAST STONE MFR. TO COORDINATE STONE ANCHORS AND METHODS WITH MASON.



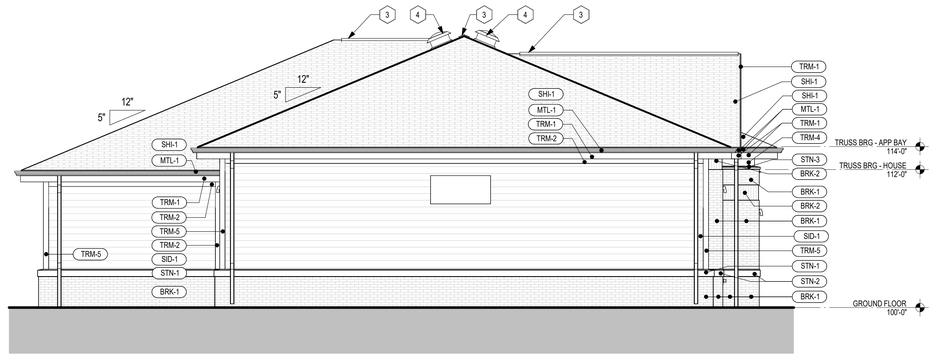
E4 TYPICAL CAST STONE DRIP
HALF SCALE



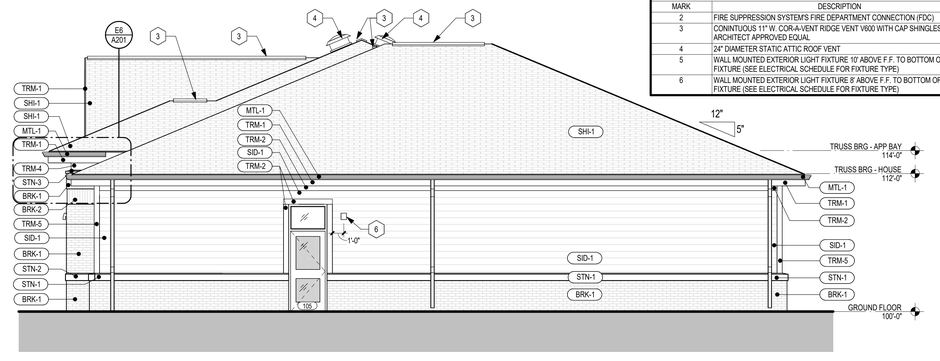
E5 TYPICAL CAST STONE CORNER DET.
3" = 1'-0"



E6 FLASHING ROOF DETAIL
3/4" = 1'-0"



C1 WEST ELEVATION
3/16" = 1'-0"



C4 EAST ELEVATION
3/16" = 1'-0"

KEYED NOTES EXTERIOR ELEV.

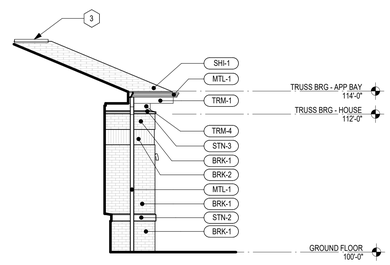
MARK	DESCRIPTION
2	FIRE SUPPRESSION SYSTEM'S FIRE DEPARTMENT CONNECTION (FDC)
3	CONINTUOUS 11" W. CORA-VENT RIDGE VENT V600 WITH CAP SHINGLES OR ARCHITECT APPROVED EQUAL
4	24" DIAMETER STATIC ATTIC ROOF VENT
5	WALL MOUNTED EXTERIOR LIGHT FIXTURE 10' ABOVE F.F. TO BOTTOM OF FIXTURE (SEE ELECTRICAL SCHEDULE FOR FIXTURE TYPE)
6	WALL MOUNTED EXTERIOR LIGHT FIXTURE 8' ABOVE F.F. TO BOTTOM OF FIXTURE (SEE ELECTRICAL SCHEDULE FOR FIXTURE TYPE)

EXT. ELEVATION GEN. NOTES

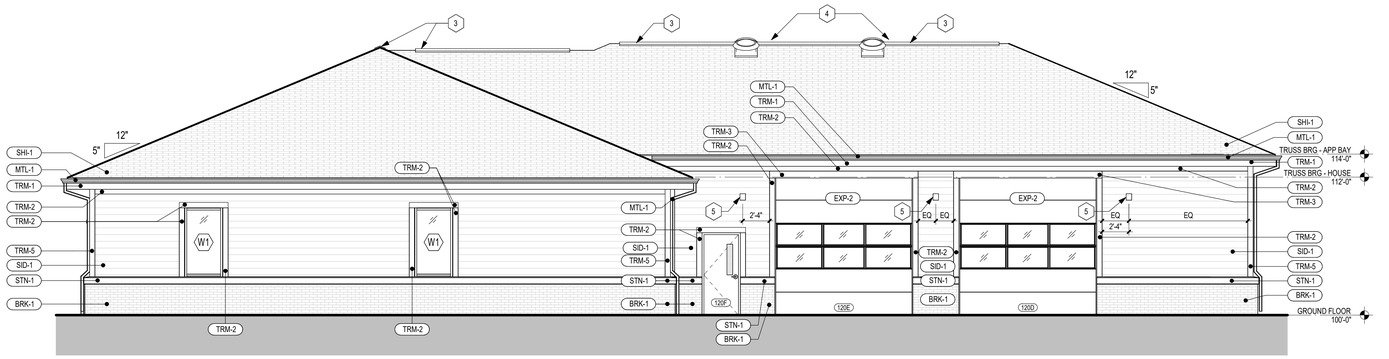
1. PROJECT NOTES ON SHEET A001 APPLY TO ALL SHEETS.
2. HEIGHTS OF WALLS REFERENCED ARE FROM FINISH FLOOR 100'-0".
3. SEE ROOF PLAN FOR ITEMS LOCATED ON THE ROOF - NOT SHOWN IN ELEVATIONS.
4. SEE MEPFP DRAWINGS FOR ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION ITEMS.
5. WHERE GUTTERS ARE INDICATED, GUTTERS SHALL BE PRE-FINISHED METAL. PLUMBING CONTRACTOR TO VERIFY IF SIZE IS ADEQUATE.
6. WHERE DOWNSPOUTS INDICATED, GUTTERS SHALL BE PRE-FINISHED METAL WITH BRACKETS TOP AND BOTTOM OR 8'-0" O.C. MAX. PLUMBING CONTRACTOR TO VERIFY IF SIZE IS ADEQUATE. SEE EXTERIOR ELEVATIONS FOR LOCATIONS.
7. METAL COPING / FASCIAS SHALL BE PRE-FINISHED METAL. INTERSECTION SHAPES SHALL BE MITERED, WELDED AND FINISHED TO HAVE A MONOLITHIC APPEARANCE UNLESS OTHERWISE INDICATED.
8. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS, e.g. BRICK TO FLASHING, CMU TO FLASHING, WINDOWS / DOORS TO BRICK / CMU .

EXT. BLDG. MTLS. LEGEND

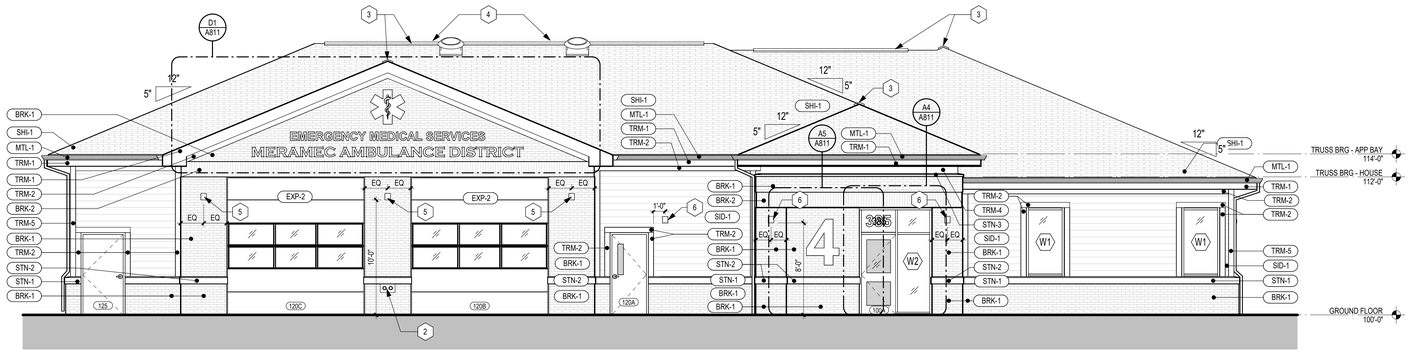
MARK	DESCRIPTION
BRK-1	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: RUNNING BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS: 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
BRK-2	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: SOLDIER ACCENT STACK BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
EXP-1	**EXTERIOR PAINT**: EXTERIOR HOLLOW FRAMES & INSUL. H.M. DOORS **MANUFACTURER**: SHERWIN WILLIAMS **SPECIAL INSTRUCTIONS**: ALL SURFACES SHALL BE CLEANED. IF SHEEN IS PRESENT, SURFACE SHALL BE SANDED DOWN FOR MECHANICAL ADHESION. **PRIME COAT:** B51W150 EXTREME BOND **2 -COAT FINISH**: TWO FINISH COATS B53W2251 PRO-INDUSTRIAL WATER-BASED ALKYD URETHANE ENAMEL, LOW SHEEN. **COLOR**: SW 2849 WESTCHESTER GRAY.
EXP-2	**EXTERIOR PAINT**: OVERHEAD DOORS **MANUFACTURER**: WAYNE DALTON **BASE BID COLOR**: WHITE POWDER COAT FINISH **ALTERNATE COLOR**: RAL 5003 SAPPHIRE BLUE
MTL-1	**GUTTERS & DOWNSPOUTS** **BASIS OF DESIGN:** McELROY **COLOR:** REGAL WHITE **TEXTURE:** PREFINISHED **PROFILE:** OGEE **SIZE**: 6" W x 5" H GUTTERS, 4" L x 3" W DOWNSPOUTS
SHI-1	**FIBERGLASS ASPHALT SHINGLES** **BASIS OF DESIGN**: OWENS CORNING **SERIES**: DURATION **COLOR**: SIERRA GRAY
SID-1	**EXTERIOR LAP SIDING**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE LAP SIDING **COLOR**: TUNDRA GRAY (B.O.D.), FINAL SELECTION BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS. **TEXTURE**: CEDAR; **SIZE**: 7.84"
SOF-1	**EXTERIOR VENTED SOFFIT**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE LAP SIDING **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. VENTED
SOF-2	**EXTERIOR NON-VENTED SOFFIT**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE LAP SIDING **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. NON-VENTED
STF-1	**STOREFRONT & GLAZING** **BASIS OF DESIGN**: YKK ARCHITECTURAL PRODUCTS **PRODUCT:** YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. **FINISH**: YK1N BLACK ANODIZED PLUS **GLAZING** : 1 " INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR. - REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.
STN-1	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN:** MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-2	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN:** MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-3	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN:** MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
TRM-1	**FASCIA:** **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 11.21" WIDE
TRM-2	**SIDING TRIM** **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 5.5" WIDE
TRM-3	**SIDING TRIM** **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 7.21" WIDE
TRM-4	**SIDING TRIM** **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 9.25" WIDE
TRM-5	**SIDING CORNER TRIM**: OUTSIDE CORNER **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 5.625" WIDE CORNER



B1 PARTIAL WEST ELEVATION
3/16" = 1'-0"



B2 NORTH ELEVATION
3/16" = 1'-0"



A2 SOUTH ELEVATION
3/16" = 1'-0"

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SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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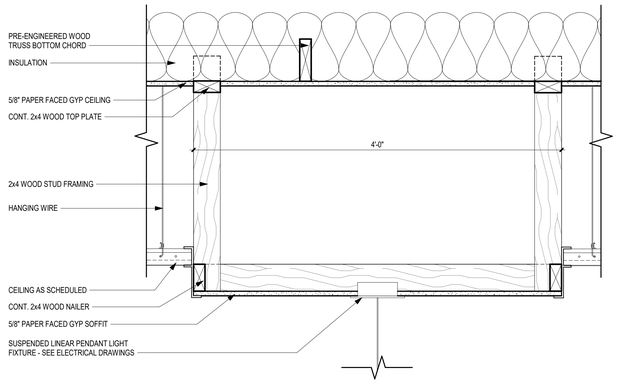
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	10/16/2026 PERMIT DOCUMENTS	10/16/2026
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	10/30/2026 ADDENDUM 01	10/30/2026

EXTERIOR ELEVATIONS

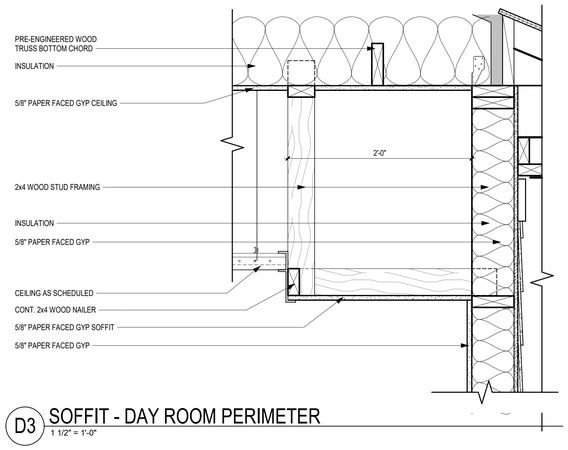
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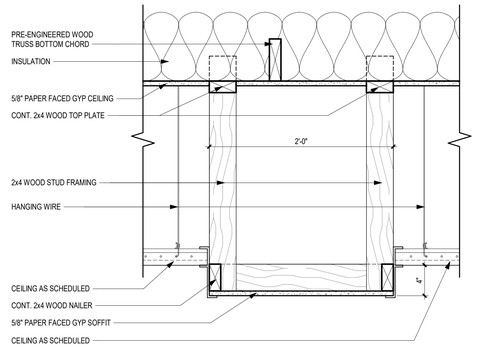
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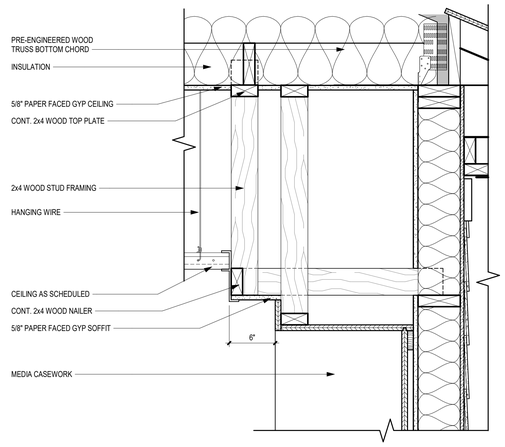
D1 SOFFIT - KITCHEN ISLAND
1 1/2" = 1'-0"



D3 SOFFIT - DAY ROOM PERIMETER
1 1/2" = 1'-0"



D5 SOFFIT - DAY ROOM INTERIOR
1 1/2" = 1'-0"



C1 SOFFIT - DAY ROOM AT MEDIA CASEWORK
1 1/2" = 1'-0"

CEILING PLAN GENERAL NOTES

1. INSTALL ACOUSTIC SOUND BATT INSULATION OVER ALL PARTITIONS ABOVE CEILING TO 24" EA. SIDE OF PARTITION, TYP.
2. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.
3. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
4. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
5. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
6. PAINT ALL GYPSUM BOARD SOFFITS AND CEILINGS. REFERENCE REFLECTED CEILING PLAN.
7. ALL FLOATING "CLOUD" CEILINGS ARE TO BE HUNG WITH AIRCRAFT CABLE (NO EXCEPTIONS) IF APPLICABLE TO THIS PROJECT.
8. SUPPLY AND INSTALL SOUND BOOTS ON ALL DIFFUSERS OPEN TO THE CEILING PLENUM, TYP.
9. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
10. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
11. REFERENCE ELECTRICAL DRAWINGS FOR BALANCE OF LIGHTING INFORMATION. NOTE: ALL FIXTURES LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
12. WHERE SPRINKLERS ARE USED, REFERENCE FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS. THIS DRAWING IS FOR COORDINATION CONCEPTS ONLY. **NOTE**: ALL SPRINKLER HEADS LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
13. WHERE SPRINKLER SYSTEMS ARE USED PROVIDE CONCEALED WHITE SPRINKLERS AT ALL GYPSUM BOARD CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE
14. FIRE PROTECTION DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SPRINKLER LINES AND DEVICES IN THE AREA OF WORK TO PROVIDE PROPER COVERAGE PER GOVERNING CODES. SPRINKLER HEADS TO MATCH BUILDING STANDARD. VERIFY WORK REQUIRED.
15. PROVIDE 5/8" THK. MOLD & MOISTURE RESISTANT GYPSUM BOARD TO ALL APPARATUS BAY CEILINGS.

CEILING PLAN LEGEND

NOTES:
* SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.

	SECOND LOOK (SIMULATED 2'X2' PANEL) 2' X 4' LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM.
	PAINTED SUSPENDED 5/8" FLAT GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
	RECESSED LAY-IN LIGHT FIXTURE 2' x 2' OR 2' x 4' AS SHOWN
	SURFACE MOUNTED LINEAR LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	CEILING MOUNTED FAN
ACT1	SECOND LOOK (SIMULATED 2'X2' PANEL) 2' X 4' LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM.
GYP1	PAINTED 5/8" FLAT GYPSUM BOARD CEILING ON 2X WOOD FRAMING. PROVIDE APPLICABLE DRAFT & FIRE STOPPING AS REQUIRED.
GYP2	PAINTED SUSPENDED 5/8" FLAT GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
GYP3	PAINTED 5/8" FLAT GYPSUM BOARD CEILING DIRECT CONNECTED TO BOTTOM CHORD OF TRUSS.
P3	PAINT – GYP BD. CEILINGS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, FLAT COLOR: SW7005 PURE WHITE
P4	PAINT – WALLS – ACCENT WALL OFFICE & BUNKS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW7018 DOVETAIL
P8	PAINT – APP BAY CLGS, DECON CLGS MFGR: SHERWIN WILLIAMS SERIES: EPOXY, FINISH: SEMI GLOSS COLOR: SW7005 PURE WHITE

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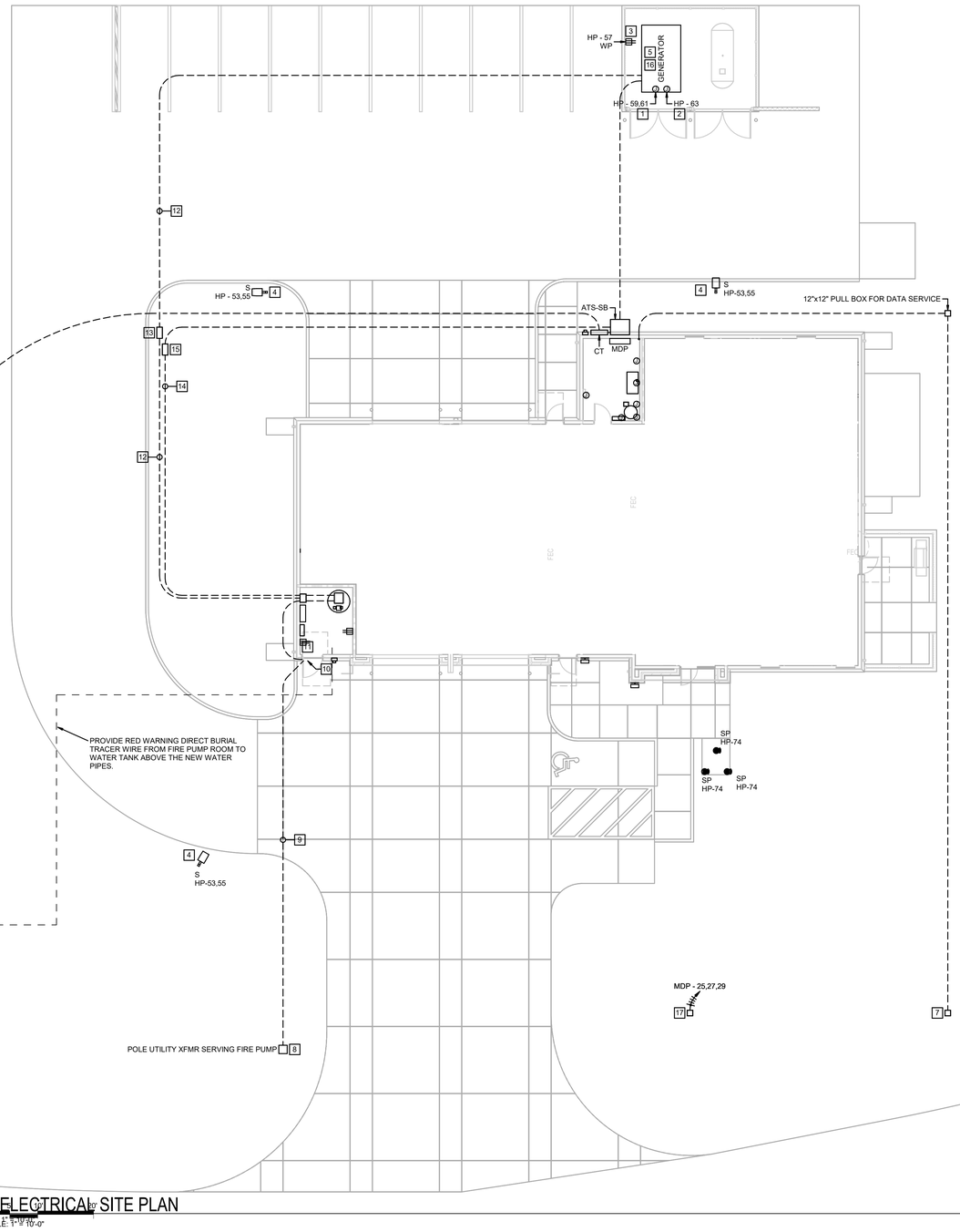
CEILING DETAILS

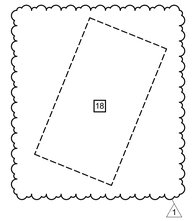
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SHEET E101 KEYED NOTES

1. PROVIDE 208V/1PH, 2#10,#10G, 1" CONDUIT FOR GENERATOR HEATER.
2. PROVIDE 120V/1PH, 2#10,#10G, 1" CONDUIT FOR GENERATOR BATTERY CHARGER.
3. PROVIDE RECEPTACLE, 2#10,#10G, 1" CONDUIT
4. PROVIDE 208V/1PH, 2#10,#10G, 1" CONDUIT TO THE SITE POLE FIXTURES.
5. PROVIDE 1" CONDUIT FOR GENERATOR COMMUNICATIONS WIRE.
6. UTILITY POLE. PROVIDE SERVICE CONDUCTORS AND CONDUIT UP POLE PER AMEREN REQUIREMENTS. COORDINATE WITH CIVIL AND UTILITY.
7. PROVIDE 3" CONDUIT FROM DATA DEMARK LOCATION TO WITHIN THE BUILDING. PROVIDE PULL STRING FOR DATA PROVIDER.
8. UTILITY POLE SERVICE FIRE PUMP. PROVIDE SERVICE CONDUCTORS AND CONDUIT UP POLE PER AMEREN REQUIREMENTS. COORDINATE WITH CIVIL AND UTILITY.
9. ROUTE FIRE PUMP ELECTRICAL SERVICE FEEDER FROM AMEREN POWER POLE BELOW GRADE TO BUILDING MOUNTED AMEREN SERVICE METER. PROVIDE GROUNDING AT METER TO MEET AMEREN SERVICE MANUAL REQUIREMENTS.
10. PROVIDE AMEREN SERVICE METER ON EXTERIOR WALL. COORDINATE WITH AMEREN PRIOR TO INSTALLATION. MEET AMEREN SERVICE MANUAL REQUIREMENTS. COORDINATE ROUTE OF UNDERGROUND ELECTRICAL SERVICE TO AVOID WATER TANK.
11. FIRE PUMP SERVICE FEEDER SHALL BE ROUTED DIRECTLY INTO FIRE PUMP ROOM TO SERVICE ENTRANCE RATED FIRE PUMP CONTROLLER. FIRE PUMP SERVICE FEEDER SHALL NOT ENTER ANY OTHER AREAS OF THE BUILDING PRIOR TO TERMINATION IN THE FIRE PUMP ROOM.
12. ROUTE STANDBY POWER FEEDER FROM ENGINE GENERATOR SET TO FIRE PUMP CONTROLLER BELOW GRADE. FIRE PUMP CONTROLLER FEEDER SHALL BE ROUTED BELOW GRADE BELOW FROST LINE. FIRE PUMP CONTROLLER FEEDER SHALL NOT BE ROUTED INTO THE BUILDING IN ANY OTHER AREA THAN THE FIRE PUMP ROOM.
13. PROVIDE IN-GROUND ELECTRICAL PULL BOX WITH LID RATED FOR AN ANSI/SCTE 77 TIER 15 APPLICATION WITH OCCASIONAL ACCIDENTAL VEHICLE EXPOSURE.
14. PROVIDE 1" CONDUIT WITH GENERATOR START-STOP AND COMMUNICATION CABLES BETWEEN ATS-SB AND ATS-FPC, ROUTE BELOW GRADE AND BENEATH FROST LINE. PROVIDE CONNECTIONS SUCH THAT LOSS OF UTILITY POWER AT EITHER ATS WILL SIGNAL THE ENGINE-GENERATOR TO START.
15. PROVIDE IN-GROUND ELECTRICAL PULL BOX WITH LID FOR ATS COMMUNICATION CIRCUITS.
16. PROVIDE FIRE ALARM MODULES TO MONITOR THE FOLLOWING AT THE ENGINE-GENERATOR: GENERATOR COMMON ALARM, GENERATOR RUNNING, AND SUPERVISION OF GENERATOR OUTPUT CIRCUIT BREAKING SERVING THE FIRE PUMP CONTROLLER. PROVIDE CONDUIT AND CONNECTION TO BUILDING FIRE ALARM SYSTEM FOR FULLY OPERATIONAL STSTEM. REFER TO SHEET E402 FOR DETAILS.
17. COORDINATE WELL PUMP CONTROLLER LOCATION AND ALL REQUIRED CONNECTIONS WITH DIVISION 33 CONTRACTOR.
18. SHED TO BE DEMO. CONTRACTOR TO REMOVE ELECTRICAL SERVICE TO MAKE BUILDING SAFE FOR DEMO.

ELECTRICAL SITE PLAN

SCALE: 1" = 10'-0"

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	10/7/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS
1	10/30/2026	ADDENDUM 1

SITE PLAN

Project No. 25083

Sheet No. E101

Date 10/16/2026

Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

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