



Request for Proposal (RFP) – Resource Center Sump Pump
Basis for Proposal/Pricing
May 7, 2025

1. STATEMENT OF PURPOSE & BACKGROUND:

Haven for Hope of Bexar County (“Haven for Hope”) has operated its 22-acre Transformational Campus just west of downtown San Antonio, Texas for the last 15 years. Haven for Hope’s mission is to provide a place of hope and new beginnings by providing, coordinating, and delivering an efficient system of care for people experiencing homelessness in San Antonio, with a vision of ending homelessness by empowering individuals and families to transform their lives.

Haven for Hope currently has a sump pump system located in the basement of its Resource Center building. Haven for Hope is seeking proposals for the design, construction, and installation of a new sump pump system located in the basement of the Resource Center building.

2. PROJECT SPECIFICATIONS / SCOPE OF WORK:

This project includes the turnkey design, construction, and installation of an upgraded sump pump system, as specified below:

- *System Design & Installation*
 - *Install a new sump and pump system at the Resource Center*
 - *Discharge water shall be piped (via ceiling hangers) to the existing discharge water system.*
 - *For bidding purposes, assume:*
 - *36-inch by 36-inch square, 7-foot deep, concrete-lined sump*
 - *Two (2) heavy duty 50 GPM pumps with floats*
 - *Associated electrical*
 - *Associated plumbing*
 - *Convert an existing bunk room area to be a staging space for the new sump pump system.*
- *Bid should include*
 - *Design and installation,*
 - *Labor, clean-up, and haul-off,*
 - *Protection of existing improvements, and*
 - *All necessary materials, permits, fees, general conditions, and mark-up.*
- *Cleanup and Restoration:*
 - *Upon project completion, the contractor must clean and restore the work area to its original or better condition. This includes debris removal and ensuring no disruption to Haven’s operations.*
 - *Haven for Hope will provide 100% construction documents, including stamped MEP plans, as part of this RFP. These plans are to be used for bidding and construction. The*

selected contractor may be required to submit either redlined construction drawings reflecting any field deviations or full as-built drawings, at Haven for Hope's discretion. This requirement will be confirmed prior to contract execution.

Warranty: Upon final payment there will be a 60-day, 10% retainage that will be withheld and a 2-year warranty on workmanship and parts. Payments will be made in three milestones.

3. COMPLIANCE, INSURANCE, & OTHER REQUIREMENTS:

- All materials and installations must adhere to state and federal procurement regulations. All work conducted under this RFP must strictly adhere to and comply with all applicable legal and regulatory guidelines throughout the duration of the project.
- All contractor staff assigned to this project must meet the requirements to gain access to Haven's property. Additional access information will be provided upon request.
- Proposals must include costs and a timeline to obtain all necessary permits for installation and any other work required under the proposal.
- Interested parties must obtain and maintain any insurance required by law, but must at least include: (i) broad form commercial general liability insurance in amounts for bodily injury and property damage of \$1,000,000 per occurrence and \$2,000,000 general aggregate (or equivalent in umbrella or excess liability coverage); (ii) causes of loss-special form property insurance, issued on a replacement-cost basis and insuring the full value of the contractor's property and property for which contractor is legally liable, including vehicles; (iii) workers' compensation and employer's liability in amounts of at least \$1,000,000; and (iv) business automobile liability, for owned, leased, non-owned and hired vehicles, with combined single limit for bodily injury and property damage of \$1,000,000 per occurrence (or its equivalent in umbrella or excess liability coverage).
 - All policies shall be primary, name Haven as an additional insured, and be issued by insurance company(ies) qualified to do business in the State of Texas and having a Best Rating of at least A-VII.
- The awarded contractor must furnish a performance and payment bond equivalent to **100% of the contract value** before starting the project.
- **Worksite Safety & Security:** The contractor is responsible for securing the worksite, ensuring OSHA compliance, and maintaining a safe work environment and protecting employees, clients, and visitors during the project.
- **Work Schedule Restrictions:** Work may only be conducted Monday through Friday, 8:00 AM to 6:00 PM, unless approved in advance by Haven for Hope

4. PROPOSAL SUBMISSION GUIDELINES:

Interested parties should submit their proposals by **5:00 PM on Thursday, May 22, 2025**, via email to RFP@havenforhope.org and Earvin.reinhardt@havenforhope.org.

Proposals should include:

- Detailed project plan and timeline;
- Cost breakdown including materials and labor;
- List of required permits, including associated costs and timelines;
- Description of relevant experience; and
- Certificate of Insurance (COI)

A site visit will be conducted on **Wednesday, May 14, 2025, at 10:00 AM** at 1 Haven for Hope Way, San Antonio, TX 78207. We will meet outside the Volunteer Center. The site visit is highly recommended to answer all questions and to provide clarification.

Any other inquiries and/or requests for clarification should be sent in writing to Earvin Reinhardt and the RFP evaluation group at the contact information listed in this RFP.

5. CONTACT INFORMATION:

Earvin Reinhardt
Director of Logistics and Facilities Management
Email: Earvin.reinhardt@havenforhope.org with CC to RFP@havenforhope.org
Office: 210-220-2112

6. ATTACHMENTS:

- Attachment A – 100% Construction Documents

7. EVALUATION CRITERIA:

Proposals will be evaluated based on:

- Adherence to project specifications;
- Proposed timeline;
- Cost-effectiveness; and
- Relevant Experience

Haven for Hope reserves the right to reject any or all proposals received in response to this RFP, to waive any informalities or irregularities in the proposals received, and to negotiate with any qualified interested party.

Thank you for your interest in this project at Haven for Hope. We look forward to reviewing your proposal.

ATTACHMENT A

100% Construction Documents

S T R U C T U R A L N O T E S

1000 COORDINATION

- A. The Contractor shall compare the Architectural, Structural, Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.
- B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the Structural Drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to Mechanical, Electrical and Plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the Structural Drawings, but required as noted above, shall be submitted to the Engineer for review.
- C. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.
- D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.
- E. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.
- F. The details designated as "Typical Details" apply generally to the Structural Drawings in all areas where conditions are similar to those described in the details.
- G. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the Structural Drawings shall be referred to the Architect. Differences shall also be clouded on the shop drawings.
- H. All structural elements of the project have been designed by the Engineer to resist the required Code vertical and lateral Forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.
- I. The Contract Structural Drawings and Specifications represent the finished structure, and except where specifically shown do not indicate the means or methods of construction. The Contractor and their Sub-Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failure of any of these persons to carry out the Work in accordance with the Structural Contract Documents.
- J. Where conflict exists among the various parts of the Structural Contract Documents, Structural Drawings, General Notes, and Specifications, the strictest requirements, as indicated by the Engineer, shall govern.
- K. Periodic site observation by field representatives of Intelligent Engineering Services, LLP (IES) is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Work, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor.

1010 SUBSTITUTIONS

- A. All requests for substitutions of materials or details shown in the Structural Contract Documents shall be submitted for approval during the bidding period.
- B. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings or duration to be deducted from the contract and/or schedule impact. Submittals not satisfying the above criteria will not be reviewed.

1020 CODES

- A. The General Building Code used as the basis for the structural design is as follows:

City of San Antonio Building Code 2021 International Building Code with City of San Antonio Amendments)

1030 IBC 2021 DESIGN LOADS

- A. Dead Loads include the self-weight of the structural elements and the following superimposed loads:
- B. Live Loads
- | OCCUPANCY OR USE | UNIFORM (psf) | CONCENTRATED (lbs.) |
|------------------|---------------|---------------------|
| Grating | N/A | 300 |
| Assembly | 100 | N/A |
- Notes:
- Live load shall not be reduced.
 - Uniform live loads have been reduced using either the basic or alternative live load reduction equations in accordance with the General Building Code, Section 1607.12 as follows:

a. Basic Uniform Live Load Reduction:

$$LL_{red} = LL (0.25 + (15 / \sqrt{K_{LL} \cdot A_T}))$$

Where LL_{red} = Reduced Live Load (psf), shall not be less than 0.5 LL for members supporting one floor and 0.4 LL for other members.
 LL = Unreduced Live Load (psf)
 K_{LL} = Live Load Element Factor
 A_T = Tributary Area (sf)
 - Live loads exceeding 100 pounds per square foot have not been reduced, except members supporting 2 or more stories, live loads have been reduced 20 percent maximum.

C. Snow Loads

Ground snow load, P_g 5 psf

D. Roof Rain Loads

Rain Intensity, i 4.7 in/hr

E. Wind Loads

1. Wind lateral load on structural frame is based on ASCE 7 using the following:

Ultimate Design Wind Speed (V_{ult})	115 mph
Nominal Design Wind Speed (V_{base})	90 mph
Exposure Category	C
Internal Pressure Coefficient, GCP_i	+/-0.18
Risk Category	III

F. Seismic Loads

1. The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:

Seismic Importance Factor, I_e	1.25
Risk Category	III
Mapped Spectral Response Accelerations	
S_s (g)	0.051
S_1 (g)	0.023
Site Class	D
Design Spectral Response Accelerations	
S_{DS} (g)	0.054
S_{D1} (g)	0.036
Seismic Design Category	A

1100 SUBMITTALS

- A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.
- B. Contractor shall review shop drawings for compliance with the Structural Drawings and shall certify that they have done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the Contractor and the date. Submittals which do not reflect the Contractor's approval, signature and date will be returned without review.
- C. Contractor shall be responsible for delays caused by rejection of inadequate shop drawings.
- D. Where review and return of shop drawings is required or requested, the Engineer will review each submittal and, where possible, return within 2 weeks of receipt.
- E. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the Contractor from compliance with requirements of the plans and specifications. Engineer's review is for general conformance with the requirements of the Structural Drawings. Contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating the work with that of all other contractors.
- F. Refer to individual sections for specific submittal requirements.

3000 CAST-IN-PLACE CONCRETE

- A. Structural Concrete Code: Building Code Requirements for Structural Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.
- B. Classes of Concrete
- All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:
 - Concrete Mix Schedule:

Conc Class	Strength psi	Agg Type	Max Agg Size Inches	Slump Inches	Max w/c	Notes
A	4000	NNT	3/4"	3-5	---	

a. NNT" refers to normal concrete having an dry unit weight of approximately 145 pcf (ASTM c33 AGGREGATE)

b. Where the w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength requirements.

c. Strength" is required compressive cylinder strength at an age of 28 days.

d. "Maximum aggregate size" is defined as first sieve with greater than 15 cumulative percent retained.
 - Mix Usage Schedule:

Description of Use	Concrete Class	Air Content
Sump Pit Walls, Footing, and Slab Pour-back	A	---
- C. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.
- D. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck.
- E. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2.3. Each proposed mix design shall be accompanied by a record of past performance or by three laboratory trial mixtures with confirmation tests

3200 CONCRETE REINFORCING

- A. Concrete reinforcement for the project shall conform to the following:
- All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.
 - Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.
 - In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
 - Provide Class B lap at all locations.
 - Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.
 - Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls.
 - Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.
- D. Reinforcing steel clear cover shall be as follows:
- Sump Pit Walls 1" interior, 2" exterior exposure
 - Footings 3" bottom, 3" sides, 1" top
- E. Submittal: Submit shop drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 "Details and Detailing of Concrete Reinforcement". Do not reproduce the Structural Drawings for use as shop drawings.

5050 POST-INSTALLED ANCHORS AND DOWELS

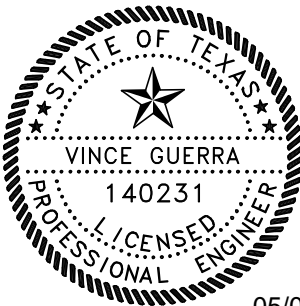
- A. Adhesive Doweling
- Adhesive doweling system shall be one of the following products:

a. HIT RE 500-V3, Hilti Inc.

b. Pure 220+, DeWalt (Powers)

c. AC208+, DeWalt (Powers)

d. SET 3G, Simpson Strong-Tie.
 - Install dowels in strict accordance with the adhesive manufacturer's instructions.
 - Clean out holes with compressed air after drilling per manufacturer's printed installation instructions or use manufacturer's alternate hole cleaning procedures.
 - Prior to drilling holes for dowels, locate existing reinforcing steel with a Pachometer (R-Meter) or by drilling 1/4 inch diameter pilot holes. Relocate bolt holes as required to avoid existing reinforcement.
 - The Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor locations can be adjusted by a maximum of 1 1/2 inch from detailed locations to avoid conflicts, unless noted otherwise. Submit an as-built of anchor locations to engineer.
 - All abandoned holes shall be filled with non-shrink grout.
 - Installation of anchors and dowels shall be continuously inspected by the testing agency to ensure that holes are of specified size, and that bolts are properly installed including application of minimum installation torques.



05/02/25
Vince Guerra

Haven For Hope - Sump Pit

1231 W. Martin Street
San Antonio, TX 78207
Developed for
Owner

Revision	Date

Submital	Date
100% DESIGN SUBMITTAL	

Job Number	Project Number
Date Published	05/02/25
Checked By	VG
Scale	

STRUCTURAL
NOTES

ABBREVIATIONS



MEP ENGINEERING | COMMISSIONING

7700 Torino St, Suite 120
San Antonio, TX 78229
Telephone: 210.614.1110
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F-24898



1. Special Inspections shall be performed in accordance with Chapter 17 of the 2021 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all required tests and inspections listed in the following tables. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.
2. Where structural members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

REQUIRED SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION (IBC Table 1705.3)				
SPECIAL INSPECTION TYPE	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
	CONTINUOUS	PERIODIC		
1. Inspect reinforcement, including prestressing tendons, and verify placement	--	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	--
2. Reinforcing bar welding:				
a. Verify weldability of reinforcing bars other than ASTM A706	--	X	AMS D14 ACI 318: 26.6.4	--
b. Inspect single-pass fillet welds, maximum 5/16"	--	X		
c. Inspect all other welds	X	--		
3. Inspect anchors cast in concrete	--	X	ACI 318: 17.8.2	--
4. Inspect anchors post-installed in hardened concrete members				
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	X	--	ACI 318: 17.8.2.4	--
b. Mechanical anchors and adhesive anchors not defined in 4.a	--	X	ACI 318: 17.8.2	--
5. Verifying use of required design mix	--	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	--	ASTM C112 ASTM C31 ACI 318: 26.5, 26.12	--
7. Inspect concrete placement for proper application techniques	X	--	ACI 318: 26.5	--
8. Verify maintenance of specified curing temperature and techniques	--	X	ACI 318: 26.5.3-26.5.5	--
9. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	--	X	ACI 318: 26.11.2	--
10. Inspect formwork for shape, location and dimensions of the concrete members being formed	--	X	ACI 318: 26.11.1, 2(b)	--
11. Inspect shotcrete placement for proper application technique	X	--	ACI 318: 26.5	--
12. Inspect prestressed concrete for:				
a. Application of prestressing forces	X	--	ACI 318: 26.10	--
b. Grouting of bonded prestressing tendons	X	--		
13. Inspect erection of precast concrete members	--	X	ACI 318: Ch. 26.9	--
14. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5	--	X	ACI 318: 26.13.1.3	

AC -	AIR CONDITIONER	L -	LENGTH
AB -	ANCHOR BOLT	LB5 -	FOUND5
ABV -	ABOVE	LL -	LIVE LOAD
ACI -	AMERICAN CONCRETE INSTITUTE	LLH -	LONG LEG5 HORIZONTAL
ADDL -	ADDITIONAL	LLV -	LONG LEG5 VERTICAL
ADH -	ADHESIVE	LO -	LOW
ADJ -	ADJACENT	LOC -	LOCATION
AEC -	ARCHITECTURALLY EXPOSED CONCRETE	LONG -	LONGITUDINAL
AESS -	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LP -	LOW POINT
AF -	ABOVE FINISHED FLOOR	LSH -	LONG SIDE HORIZONTAL
AGGR -	AGGREGATE	LSL -	LONG SLOTTED HOLES
AHU -	AIR HANDLING UNIT	LSV -	LONG SIDE VERTICAL
ASG -	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LVL -	LAMINATED VENEER LUMBER
ALT -	ALTERNATE	LVA -	LIGHTWEIGHT
APPROX -	APPROXIMATE	LWG -	LIGHTWEIGHT CONCRETE
ARCH -	ARCHITECT (OR) ARCHITECTURAL		
B TO B -	BACK TO BACK	M -	MOMENT
BD -	BOARD	MAS -	MASONRY
B.G. -	BOTTOM OF	MATL -	MATERIAL
BF -	BACK FACE	MAX -	MAXIMUM
BFF -	BELOW FINISH FLOOR	MC -	MOMENT CONNECTION(S)
BL -	BOTTOM INSIDE LAYER	MECH -	MECHANICAL
BL -	BUILDING LINE	MEP -	MECHANICAL, ELECTRICAL, PLUMBING
BLDG -	BUILDING	MEZZ -	MEZZANINE
BLKS -	BLOCKING	MF -	MANUFACTURER
BM -	BEAM	MID -	MIDDLE
BOL -	BOTTOM OUTSIDE LAYER	MIN -	MINIMUM
BOS -	BOTTOM OF STEEL	MISC -	MISCELLANEOUS
BOTT -	BOTTOM	MTL -	METAL
BP -	BASE PLATE	NP -	NEAR FACE
BRDG -	BRIDGING	NG -	NOT IN CONTRACT
BRG -	BEARING	NOM -	NOMINAL
BRKT -	BRACKET	NS -	NON-SWIRLING
BRLL -	BRICKLEDGE	NTS -	NOT TO SCALE
BMT -	BASEMENT		
BTWN -	BETWEEN	OC -	ON CENTER
		OCEN -	ON CENTER EACH WAY
C -	CAMBER (OR) COMPRESSION	OD -	OUTSIDE DIAMETER (OR) OVERFLOW DRAIN
CANT -	CANTILEVER	OF -	OUTSIDE FACE
CFS -	GOLD FORMED STEEL	OH -	OPPOSITE HAND
CG -	CENTER OF GRAVITY	OPNG(S) -	OPENING(S)
CSS -	CENTER OF GRAVITY OF STRAND	OPP -	OPPOSITE
CP -	CAST-IN-PLACE		
CJ -	CONTROL JOINT	P -	PAN
CJP -	COMPLETE JOINT PENETRATION	P/C -	PRECAST CONCRETE
CL -	CENTER LINE	P/E -	PRE-ENGINEERED
CLS -	CEILING	PAF -	POWER ACTUATED FASTENER
CLR -	CLEAR (OR) CLEARANCE	PAR -	PARALLEL
CMU -	CONCRETE MASONRY UNIT	PCF -	POUNDS PER CUBIC FOOT
COL -	COLUMN	PEMB -	PRE-ENGINEERED METAL BUILDING
C OR COMP -	COMPRESSION	PERP -	PERPENDICULAR
CONC -	CONCRETE	PI -	PLASTICITY INDEX
CONN(S) -	CONNECTION(S)	PLJ -	PLATE JOINT
CONST -	CONSTRUCTION	PJP -	PARTIAL JOINT PENETRATION
CONST JT -	CONSTRUCTION JOINT	PL -	PLATE
CONT -	CONTINUOUS	PLF -	POUNDS PER LINEAR FOOT
CONTRACTOR	CONTRACTOR	PLVWD -	PL WIND
COORD -	COORDINATE	PREFAB -	PREFABRICATED
CVR -	COVER	PRELIM -	PRELIMINARY
		PROJ -	PROJECTION
DBA -	DEFORMED BAR ANCHORS	PSF -	POUNDS PER SQUARE FOOT
DBL -	DOUBLE	PSI -	POUNDS PER SQUARE INCH
DECK -	DECK EDGE	PSL -	PARALLEL STRAND LUMBER
DEV -	DEVELOPMENT	PT -	POINT (OR) PRESSURE TREATED
DIFL -	DOUGLAS FIR LARCH	P-T -	POST-TENSION(ED)
DIA -	DIAMETER	QTY -	QUANTITY
DIAG -	DIAGONAL		
DM(S) -	DIMENSION(S)	R -	RADIUS (OR) REACTION (OR) REMANDER
DKG -	DECKING	RD -	ROOF DRAIN
DL -	DEAD LOAD	REIN -	REINFORCE(ING)(ED)(MENT)
DN -	DOWN	REQ -	REQUIRE(MENT)
DS -	DOWNSPOUT	REQD -	REQUIRED
DTL -	DETAIL	RET -	RETAINING
DWG(S) -	DRAWING(S)	RET SYS -	RETENTION SYSTEM
DWLS -	DOWELS	RF -	ROOF
EA -	EACH	RIB -	RIB
EF -	EACH FACE (OR) EXHAUST FAN	RM -	ROOM
EJ -	EXPANSION JOINT	RO -	ROUGH OPENING
EL -	ELEVATION	RTU -	ROOF TOP UNIT
ELEC -	ELECTRICAL		
ELEV -	ELEVATOR	SCHED -	SCHEDULE(D)
EMBED -	EMBEDMENT	SECT -	SECTION
ENGR -	ENGINEER	SF -	SQUARE FOOT
EOR -	ENGINEER OF RECORD	SHT -	SHEET
EQ -	EQUAL (OR) EQUIVALENT	SHTG -	SHEATHING
EQUIP -	EQUIPMENT	SN -	SNAIL
EX -	EACH WAY	SJ -	STEEL JOIST INSTITUTE
EXIST -	EXISTING	SL -	SLOPE
EXP -	EXPANSION	SG -	SLAB ON GRADE
EXT -	EXTERIOR	SP -	SOUTHERN PINE
EXTN -	EXTENSION	SFA -	SQUARE
		SPECED -	SPECIFIED
F TO F -	FACE TO FACE	SPEC(S) -	SPECIFICATION(S)
FABR -	FABRICATOR	SQ -	SQUARE
FD -	FLOOR DRAIN	SS -	STAINLESS STEEL
FDN -	FOUNDATION	SSL -	SHORT SLOTTED HOLE
FFE -	FINISHED FLOOR ELEVATION	STAGG -	STAGGERED
FIN -	FINISH (OR) FINISHED	STD -	STANDARD
FIN FL -	FINISHED FLOOR	STIFF -	STIFFENER
FL -	FLOOR	STRKPS -	STRIPS
FLG -	FLANGE	STL -	STEEL
FP -	FIREPROOF(ING)	STRUCT -	STRUCTURE (OR) STRUCTURAL
FRMG -	FRAMING	SUBCONTR -	SUBCONTRACTOR
FS -	FAR SIDE	SW -	SHEARWALL (OR) SIDEWALK
FT -	FOOT (OR) FEET		
FTG -	FOOTING	T -	TENSION
FV -	FIELD VERIFY	T.O. -	TOP OF
		T&B -	TOP AND BOTTOM
GAGE -	GAGE (OR) GAUGE	T&G -	TONGUE AND GROOVE
GALV -	GALVANIZED	TEMP -	TEMPERATURE
GC -	GENERAL CONTRACTOR	THK -	THICK
GLULAM -	GLUE LAMINATED TIMBER	THRD -	THREAD(ED)
GR -	GRADE	TIL -	TIMBER LAYER
GR BM -	GRADE BEAM	TOS -	TOP OF BEAM
		TOP -	TOP OF CON

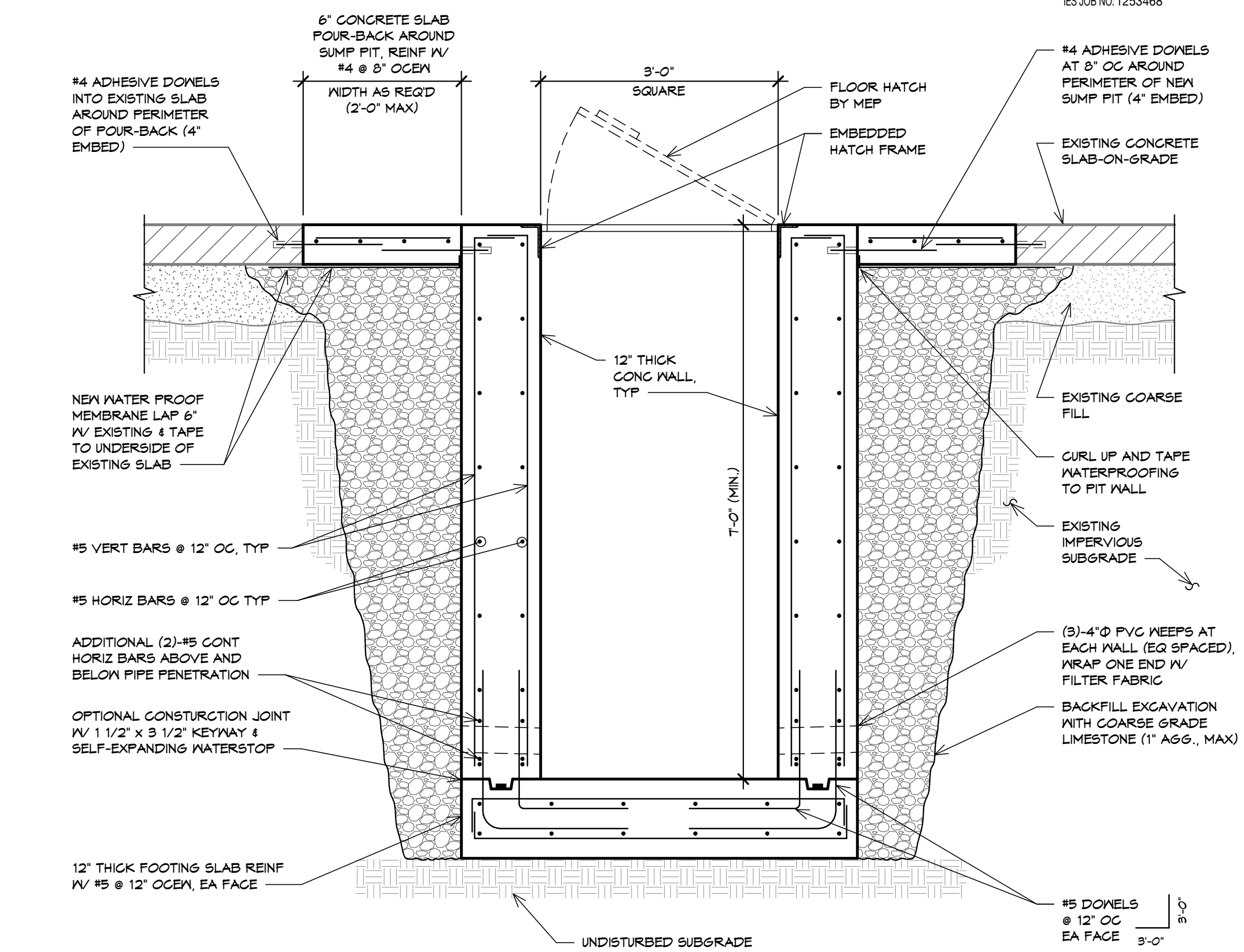
Haven For Hope - Sump Pit

1231 W. Martin Street
San Antonio, TX 78207
Developed for
Owner

[illegible][illegible]

Job Number	Project Number
Date Published	05/02/25
Checked By	VG
Scale	

SPECIAL INSPECTIONS & LEGENDS



(B)-3'-0"X3'-0" #5 CORNER BARS AT EACH SET OF HORIZONTAL WALL BARS

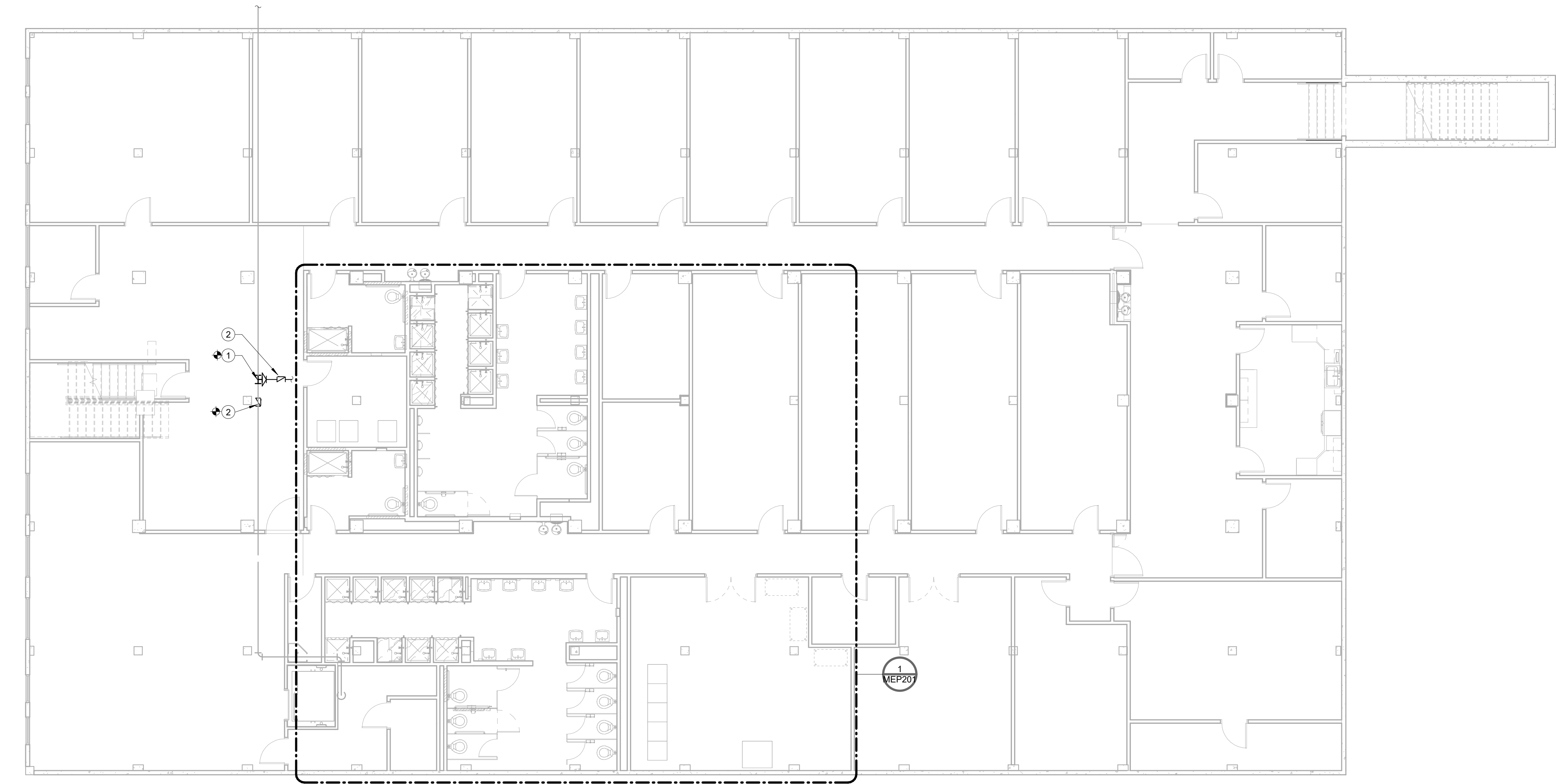
STOP DETAILED REINFORCING 2' SHORT OF FORM TYPICAL

3 TYPICAL CORNER BARS AT WALL INTERSECTION DETAIL

1. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT UNDERMINING OF EXISTING BUILDING FOUNDATION FOOTINGS. NOTIFY IE IF FOOTING LOCATIONS DIFFER FROM THOSE SHOWN IN THIS PLAN.
2. EXISTING FRAMING INFORMATION IS PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. IT IS BASED ON FIELD MEASUREMENTS, AND MAY NOT ACCURATELY REFLECT THE ACTUAL CONDITIONS IN THE FIELD. INTELLIGENT ENGINEERING SERVICES, LLP MAKES NO GUARANTEE CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. FIELD VERIFY ALL CONDITIONS.

BAR SIZE	$f_c = 3000$ psi	$f_c = 4000$ psi	$f_c = 5000$ psi
#3	0'-9"	0'-8"	0'-7"
#4	0'-11"	0'-10"	0'-9"
#5	1'-2"	1'-0"	0'-11"
#6	1'-5"	1'-3"	1'-1"
#7	1'-8"	1'-5"	1'-3"
#8	1'-10"	1'-7"	1'-5"
#9	2'-1"	1'-10"	1'-8"
#10	2'-4"	2'-1"	1'-10"
#11	2'-7"	2'-3"	2'-0"

4 TYPICAL REINFORCEMENT DEVELOPMENT LENGTHS & LAP SPLICES SCHEDULES (GRADE 60 REINFORCEMENT)



1 LOWER LEVEL - OVERALL FLOOR PLAN
SCALE: 1/8" = 1'-0"

- KEYED NOTES** (THIS SHEET ONLY)
- 1 CONNECT TO EXISTING DRAIN LINE SYSTEM. PROVIDE BACKWATER VALVES AS INDICATED.
 - 2 PROVIDE BACKWATER VALVE IN PIPE.

PROJECT # 24006

CL

Consulting Engineers

MEP ENGINEERING | COMMISSIONING

7700 Torino St, Suite 120

San Antonio, TX 78229

Telephone: 210.614.1110

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F-24898

STATE OF TEXAS

TODD J. SPARROW

106325

LICENSED PROFESSIONAL ENGINEER

5/02/2025

STATE OF TEXAS

ZACHARY W. HUMPHRIES

155196

LICENSED PROFESSIONAL ENGINEER

05/02/25

**HAVEN FOR HOPE
RESOURCE CENTER
SUMP PUMP**
600 LEAL ST, SAN ANTONIO, TX 78207
Developed for

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Scale		1/8" = 1'-0"

**MEP OVERALL
FLOOR PLAN**

MEP101



Developed for

MEP DETAILS

2. Conduit requirements
 - A. Minimum size: 3/4 inch unless otherwise specified, except that 1/2 inch may be used for conduits between plugs or between light fixtures.
 - B. Underground Installation
 - (1) More than five feet from foundation wall: Use RMC, IMC, or Schedule 80 PVC.
 - (2) Within five feet from foundation wall: Use RMC or IMC.
 - (3) Under slab on grade: Use PVC, except that for elbows and where turning up, use RMC or IMC.
 - (4) Minimum size: 1 inch.
 - C. Outdoor locations, above grade: Use RMC or IMC.
 - D. Dry locations - Interior: Concealed use EMT. Exposed use EMT, except that below 10 feet AFF, use RMC or IMC.
 - E. Equipment Connections: Use FMC or LFMC, in lengths up to 5 feet.
 3. Rigid Metal Conduit (RMC) and Intermediate Metal Conduit (IMC)
 - A. RMC: ANSI C80.1, steel conduit, hot dipped, galvanized after fabrication.
 - B. IMC: Galvanized steel.
 - C. Fittings and conduit bodies: ANSI/NEMA FB1; material to match conduit.
 - D. RMC and IMC installed below grade or exposed to weather shall be coated with pipe primer and then wrapped with all-weather corrosion protection tape.
 - (1) of 20 mils thickness, installed with 80% overlap. Surfaces of conduit shall be coated with pipe primer prior to wrapping.
 - (2) Utilize 3M "Scotchwrap" pipe primer and 3M "Scotchwrap" 51 tape, or approved equal.
 4. Flexible Metal Conduit (FMC) and Liquid-Tight Flexible Metal Conduit (LFMC)
 - A. FMC: Flexible galvanized steel.
 - B. LFMC: Anaconda "Sealtite" Type VA, or approved equal, flexible galvanized steel core with extruded thermoplastic covering with special watertight connectors, UL listed with ground integral in sizes 1/2" to 1-1/4".
 - C. LFMC for underfloor locations: Anaconda "Sealtite" Type OR.
 - D. LFMC for extreme temperatures locations (above 40 degrees C): Type HC.
 - E. Fittings: ANSI/NEMA FB1.
 5. Electrical Metallic Tubing (EMT)
 - A. Description: ANSI C80.3; galvanized tubing.
 - B. Fittings and conduit bodies: ANSI/NEMA fb1, galvanized steel compression type outdoors. Steel set-screw may be used indoors. Steel connectors shall have insulated throat.
 6. Rigid PVC Conduit (PVC)
 - A. High impact polyvinyl chloride, meeting minimum requirements of NEC.
 - B. Direct burial type: Carlon electric products, Type 40.
 - C. Concrete encased burial type: Carlon electric products, Type 40. Mark each length clearly and durably with nominal trade size, type of material, and UL label.
 - D. Fittings: PVC, solvent weld type, with connectors and threaded adapters as required.
 7. Junction, Pull, and Splice Boxes
 - A. Construction. Provide boxes conforming to NEC Article 314.
 - B. Interior spaces. Provide NEMA 1 type boxes at least 4 inches deep.
 - C. Exterior spaces. Provide NEMA 3R type boxes at least 4 inches deep.
 - D. Embedded. Provide NEMA 4 cast iron type with external recessed flanged cover when cast in concrete.
 - E. Size. Provide boxes sized in accordance with NEC requirements.
 - F. Listing. UL 514.
- Part 3 - Execution
1. Installation
 - A. Install conduit in accordance with NECA Standard of Installation. Arrange supports to prevent misalignment during wiring installation.
 - B. Support conduit using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers.
 - C. Group related conduits and support using conduit rack. Construct conduit rack using steel channel; provide space on each 25 percent additional conduits.
 - D. Fasten conduit supports to building structure and surfaces.
 - E. Do not support conduit with wire or perforated pipe straps. Remove wire used for temporary supports.
 - F. Arrange conduit to maintain headroom and present neat appearance. Route exposed conduit parallel and perpendicular to structure. Route conduit under slab from point-to-point. In floor slabs, sleeves shall extend 1-1/2 inch above floor slab cemented in a water tight manner. Maintain adequate clearance between conduit and piping.
 - G. Cut conduit square using saw pipe cutter; de-burr cut ends. Bring conduit to shoulder of fittings; fasten securely. Join nonmetallic conduit using cement as recommended by manufacturer. Use nonmetallic conduit dry and clean before joining. Apply full even coat of cement to entire area inserted in fitting. Allow joint to cure for 20 minutes, minimum.
 - H. Use conduit hubs or sealing locknuts to fasten conduit to sheet metal boxes in damp and wet locations and to cast boxes.
 - I. Install no more than equivalent of three 90-degree bends between boxes. Use conduit bodies to make sharp changes in direction, as around beams. Use factory elbows for bends in metal conduit larger than 2-inch size.
 - J. Avoid moisture traps; provide junction box with drain fitting at low points in conduit system. Provide suitable fittings to accommodate expansion and deflection where conduit crosses control and expansion joints.
 - K. Provide suitable pull string in empty conduits, except sleeves and nipples.
 - L. Use suitable caps to protect installed conduit against entrance of dirt and

Section 26 0553 - Identification for Electrical Systems

- ## Part 1 - General
1. Scope: This section covers nameplates, labels, wire markers, conduit markers, stencils, underground warning tape, and lockout devices.
- ## Part 2 - Products
1. Nameplates
 - A. Product description: laminated three-layer plastic with engraved black letters on white contrasting background color.
 - B. Letter Size (Switchboards):
 - (1) 1/2-inch-high letters for identifying individual equipment.
 - (2) 1/4-inch-high letters for identifying miscellaneous information.
 - (3) Refer to details for additional information.
 - C. Letter Size (Panelboards, Transformers, Disconnects, etc.):
 - (1) 1/4-inch-high letters for identifying individual equipment.
 - (2) 1/8-inch-high letters for identifying miscellaneous information.
 - (3) Refer to details for additional information.
 - D. Minimum nameplate thickness: 1/8 inch.
 - E. Mounting Method: Corrosion Resistant Rivets
 2. Wire Markers
 - A. Description: split sleeve or tubing type wire markers.
 - B. Legend:
 - (1) Power and lighting circuits: branch circuit or feeder number.
 - (2) Control circuits: control wire number as indicated on schematic and interconnection diagrams.
 3. Conduit and Raceway Markers
 - A. Description: Nameplate fastened with adhesive labels fastened with adhesive.
 - B. Color:
 - (1) Medium voltage system: Black lettering on white background.
 - (2) 480-volt system: Black lettering on white background.
 - (3) 208-volt system: Black lettering on white background.
 - C. Legend:
 - (1) Medium voltage system: High Voltage.
 - (2) 480-volt system: 480 volts.
 - (3) 208-volt system: 208 volts.
 4. Stencils
 - A. Stencils: With clean cut symbols and letters of following size:
 - (1) Up to 2 inches outside diameter of raceway: 1/2-inch-high letters.
 - (2) 2-1/2 to 6 inches outside diameter of raceway: 1-inch-high letters.
 - B. Stencil paint: Semi-gloss enamel, with colors conforming to the following
 - (1) Black lettering on white background.
 - (2) White lettering on gray background.
 - (3) Red lettering on white background.
 - (4) Blue lettering on white background.
 5. Underground Warning Tape: 4-inch-wide plastic tape, detectable type, colored red with suitable warning legend describing buried electrical lines.
 6. Lockout Devices: Anodized aluminum hasp with erasable label surface; size minimum 7-1/4 inches by 3 inches.

Part 3 - Execution

1. Preparation
 - A. Degrease and clean surfaces to receive adhesive for identification materials.
2. Existing Work
 - A. Install identification on existing equipment to remain in accordance with this section.
 - B. Install identification on unmarked existing equipment.
 - C. Replace lost nameplates.
 - D. Re-stencil existing equipment.
3. Install identifying devices after completion of painting.
4. Nameplate installation:
 - A. Install nameplate parallel to equipment lines.
 - B. Install nameplate for each electrical distribution and control equipment enclosure with corrosive-resistant mechanical fasteners, or adhesive.
 - C. Install nameplates for each control panel and major control components located outside panel with corrosive-resistant mechanical fasteners, or adhesive.
 - D. Secure nameplate to equipment front using screws.
 - E. Secure nameplate to inside surface of door on recessed panelboard in finished locations.
 - F. Install nameplates for switchboards, panelboards, transformers, and disconnect switches.
5. Label Installation:
 - A. Install label parallel to equipment lines.

- B. Install label for identification of individual control device stations.
 - C. Install labels for permanent adhesion and seal with clear lacquer.
6. Wire Marker Installation:
- A. Install wire marker for each conductor at panelboard gutters, pull boxes, outlet and each load connection.
 - B. Mark data cabling at each end. Install additional marking at accessible locations along the cable run.
 - C. Install labels at data outlets identifying patch panel and port designation as indicated on drawings.
7. Conduit Marker Installation:
- A. Install conduit marker for each conduit longer than 6 feet.
 - B. Conduit Marker Spacing: 20 feet on center.
 - C. Identify conduit using field painting. On 480-volt systems, use blue paint on 208-volt systems, use yellow paint.
8. Underground Warning Tape Installation: Install underground warning tape along length of each underground conduit, raceway, or cable 6 to 8 inches below finished grade, directly above buried conduit, raceway, or cable.

*** End of Section ***

Section 26 2813 - Overcurrent Protective Devices

- Part 1 - General
- Summary: This section covers fuses and molded case circuit breakers rated 600 volts or less in panelboards, switchboards, individual enclosures, motor control centers, combination motor starters, and busway plug in units.
 - Submittals
 - Product Data: Submit device ratings, trip characteristics, and compatibility information.
- Part 2 - Products
- Acceptable Manufacturers
 - Fuses:
 - Bussman Mfg. Div.
 - Gould-Shawmutt
 - Little Fuse.
 - Breakers:
 - GE Electrical.
 - Eaton Corporation.
 - Schneider Electrical.
 - Siemens.
 - Fuses
 - Products of a single manufacturer.
 - Fuses rated 1/10 to 600 amperes shall be current limiting UL Class RK1.
 - Circuit Breakers
 - Inverse time trip unit with fixed thermal trip action.
 - Device with permanent trip unit containing individual thermal and magnetic trip elements in each pole.
 - Calibrated for operation in a minimum ambient temperature of 40°C.
 - Marked to indicate their current and voltage rating.
 - Device with interrupting capacity compatible with the equipment in which it is installed, which shall not be less than 10 kAIC on systems 150 volts to ground and below, and 14 kAIC on systems above 150 volts to ground.
 - One, two, or three pole molded case circuit breakers as indicated on the Drawings.
 - Common trip type.
 - Breakers must clear panel doors and be mounted on frame allowing outward and inward adjustment. The depth of the panel shall also permit adjustment.
 - The use of tandem, "Multi," "Push-O-Matic," or "Quicklag" breakers shall not be permitted.

Part 3 - Execution

1. Provide overcurrent protection for all wiring and equipment in accordance with the NEC.
2. Label inside of each fused switch door, with the following information: fuse class, type, ampere rating, and interrupting rating. Label should indicate that fuses should be replaced only with fuses of the same class, ampacity, and interrupting rating.

*** End of Section ***

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