

Iowa Department of Natural Resources
Construction Documents

Shelter Restoration – REBID
for
Trappers Bay State Park
Dickinson County, IA

Project #22-01-30-09
Plans prepared by
Land and Waters Bureau
Conservation and Recreation Division

AUTHORIZATION TO BID

BUREAU CHIEF - LAND AND WATERS		DATE	PARKS WILDLIFE FISHERIES LAW ENFORCEMENT		DATE
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DIRECTORY

ARCHITECT		DNR INSPECTOR	
COMPANY	Iowa Department of Natural Resources	COMPANY	Iowa Department of Natural Resources
ADDRESS	502 E. 9th St.	ADDRESS	-
CITY,STATE,ZIP	Des Moines, IA 50319	CITY,STATE,ZIP	Hinton, IA
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This project will restore the CCC shelter at Trappers Bay State Park, which was built in 1934. The wood members of this shelter are in poor condition, roofing is in need of replacement. The concrete slab, column piers are all in need of replacement and new stone plinths shall be installed. This project will remove all roofing, underlayment, and flashing. This project will also remove all roof decking, inspect purlins and beams for rot, trim purlins, and then power-wash and stain all wood. Then, we will install new 2x6 T&G decking and new roofing with new copper flashing at the chimney.



I hereby certify that this architectural document was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Architect under the laws of the State of Iowa.

Ryan E Richey

Digitally signed by Ryan E Richey
DN: C=US, E=ryan.richey@dnr.iowa.gov, O=Iowa Department of Natural Resources, OU=Engineering Section - L&W Bureau, CN=Ryan E Richey
Date: 2022.12.06 12:30:27-06'00'

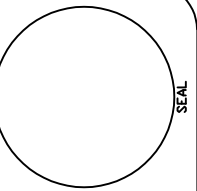
RYAN E. RICHEY

DATE

My license renewal date is June 30, 2023.

Pages or sheets covered by this seal:

A-001 - A-104



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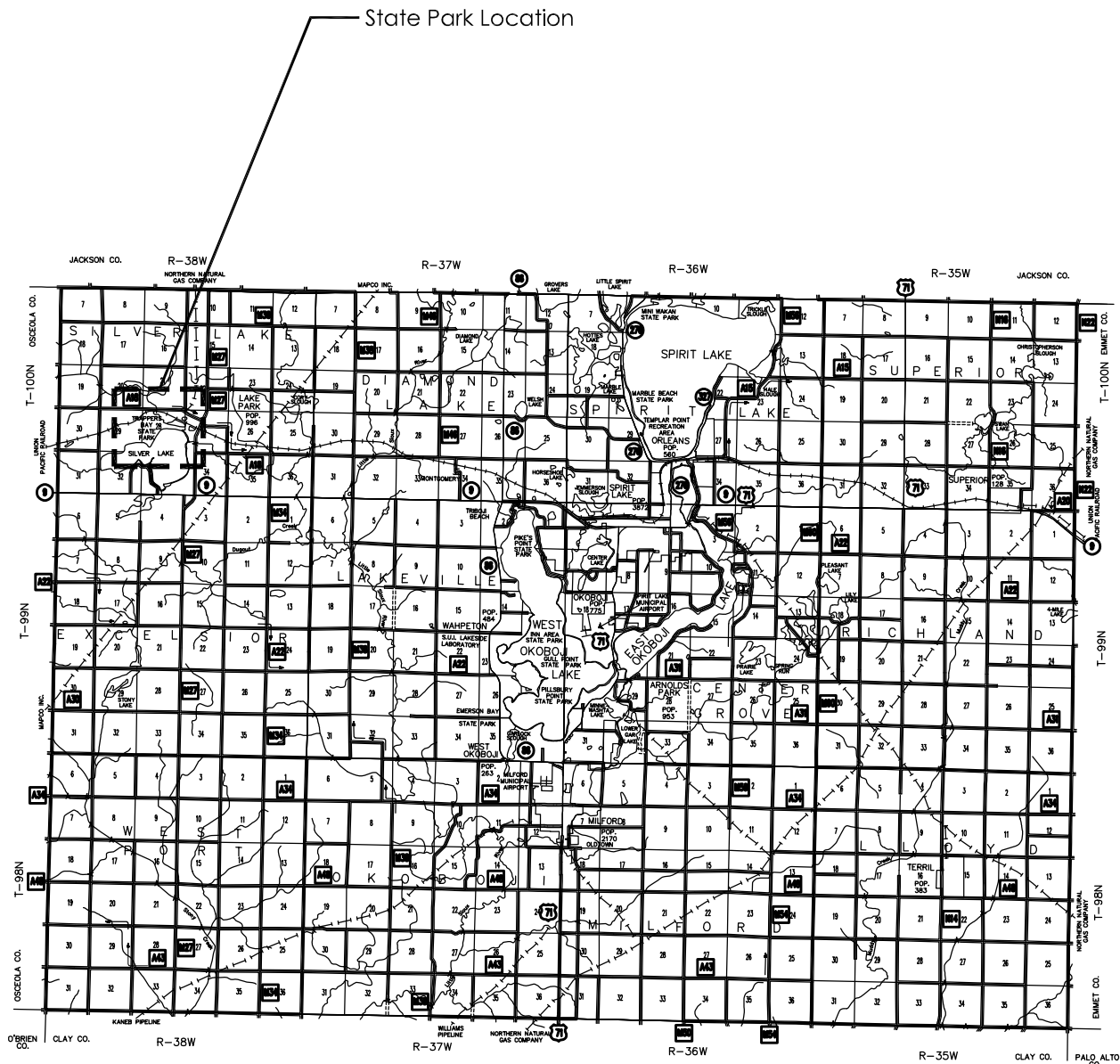


Shelter Restoration REBID for:
Trappers Bay State Park
309 Trapper's Bay Road
Lake Park, IA 51347

SHEET INDEX	
SHEET. NO.	SHEET TITLE
	ARCHITECTURAL
A-001	COVER SHEET
A-002	PROJECT LOCATION
A-003	PROJECT NARRATIVE AND CONSTRUCTION NOTES
A-004	KEYNOTES
A-050	PHOTO - EXISTING SHELTER CONDITIONS
A-051	PHOTO - EXISTING SHELTER CONDITIONS
A-052	PHOTO - EXISTING SHELTER CONDITIONS
A-100	SHELTER REFERENCE PLAN
A-101	SHELTER ELEVATIONS
A-102	SHELTER ELEVATION AND SECTION
A-103	SHELTER SLAB PLAN
A-104	SHELTER PLINTH DETAILS

BID ITEMS		
ITEM #	ITEM DESCRIPTION	ESTIMATED QUANTITY
1	Demolition and Cleaning	Lump Sum
2	Wood Restoration, Replacement, and Staining	Lump Sum
3	2x6 T&G Roof Decking	Lump Sum
4	Roofing, Underlayment, and Flashing	Lump Sum
5	5" PCC Slab and Reinforcement	86 SY
6	3" Subbase Rock	26 Tons
7	3/4" Subbase Rock	48 Tons
8	Column Plinths and Hardware	2 EA
9	Mobilization	Lump Sum

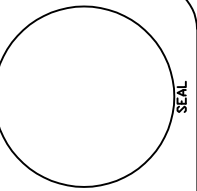
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A-001	12.20.2022



02 Dickinson County – Trappers Bay State Park
SCALE: NTS



01 Trappers Bay State Park – Project Location
SCALE: NTS



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A-002

GENERAL CONSTRUCTION NOTES

VERIFY ACTUAL LOCATIONS AND ELEVATIONS WITH DNR ENGINEER.

ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE PROJECT AREA AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ACTUAL JOB CONDITIONS PRIOR TO BIDDING AND THE START OF WORK. FAILURE TO VISIT THE PROJECT SITE SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK IN ACCORDANCE TO THE PLANS, SPECIFICATION, SPECIAL PROVISIONS AND CONTRACT.

THE CONTRACTOR SHALL VERIFY, AT THE SITE, ALL DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS AND SHALL NOTIFY THE DNR ENGINEER OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL (EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY STATED IN THE PLANS OR APPROVED BY THE DNR ENGINEER.

THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR WILL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREAS WILL BE SUBJECT TO THE APPROVAL OF THE DNR ENGINEER.

WHERE UTILITIES AND FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DNR ENGINEER OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE AFFORDED ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

THE CONTRACTOR SHALL SHAPE GRADED AREA TO MAINTAIN SURFACE DRAINAGE. ALL ELEVATIONS ARE TO FINISH GRADE.

THE CONTRACTOR IS EXPECTED TO HAVE MATERIALS, EQUIPMENT, AND LABOR AVAILABLE ON A DAILY BASIS TO INSTALL AND MAINTAIN EROSION CONTROL FEATURES ON THE PROJECT. THIS MAY INVOLVE SEEDING, SILT FENCE, ROCK DITCH CHECKS, SILT BASINS OR SILT DIKES.

*DIVISIONS 20-41 OF THE STANDARD SPECIFICATIONS FOR BRIDGE AND HIGHWAY CONSTRUCTION, CURRENT EDITION WITH GS-15011 SHALL APPLY TO THIS PROJECT.

PROJECT NARRATIVE

The contractor shall be responsible for providing and installing all items within this narrative, the drawings, and project manual unless specifically noted otherwise. This narrative is not meant to be a comprehensive account of all items to be covered by the contract, review all documents. Contractor is responsible for field verifying all dimensions and establishing all quantities that are dictated as "lump sum".

This project, for Trappers Bay State Park – Shelter Restoration – REBID, shall commence after the contract is executed.

The contractor shall demolish and remove the concrete slab and column footings for the shelter. The contractor shall over-excavate under the slab to a depth of 24" and fill this void with 1'-0" deep with 3" rock, then top that with another 1'-0" deep of ¾" rock. The contractor shall pour a new 5" concrete slab with #4 rebar 24" o.c. both directions. Slab shall have a thickened edge as shown on the drawings. Contractor shall also pour two (2) new concrete columns for the shelter and install a stone plinth under the existing wood columns as shown.

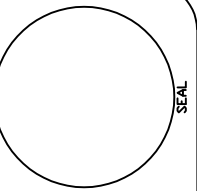
The contractor shall remove all roofing, underlayment, flashing, and 1x roof decking. The contractor shall power-wash with nylon bristle brushes and non-ionic detergent, the entire wood roof structure. The contractor shall trim all extended purlins to behind the roof structure above, meaning all purlins extending beyond the roof line shall be trimmed to below. The contractor shall epoxy consolidate and fill all of the wood beams, purlins, and columns to fill all voids and hollow spots. The contractor shall shape and sand the epoxy to mimic the adjacent wood structure. The contractor shall replace the missing kicker on the wall to beam. Kicker to be seasoned hardwood of similar size as adjacent kickers, install with stainless hardware epoxy painted black, as required. The contractor shall replace all existing wood shutters on the four (4) windows of the shelter and all hardware shall be replaced with stainless hardware of similar size and configuration. All stainless hardware shall be epoxy painted black. The contractor shall then paint all wood with two (2) coats of exterior Sherwin Williams Exterior Duration – Acrylic Latex, or approved equal, color to be Sable SW6083.

The contractor shall install new 2x6 douglas fir tongue and groove roof decking in the same orientation of the original T&G. The contractor shall then finish the underside of the tongue and groove decking with two (2) coats of satin exterior spar urethane. The contractor shall cover the entire topside of the decking with self-adhered 40mil water and ice shield. The contractor shall flash, with 16oz copper, the chimney and cricket area around the chimney and install aluminum drip edge, color to be dark brown, around the entire perimeter of the roof. The contractor shall then install roofing over the entire structure, contractor to chose one of the below roofing options. The contractor shall install all flashing and roofing materials per manufacturer's recommendations.

When all items are completed, the contractor shall clean all of the stone and stucco by power-washing with non-ionic detergent and nylon bristle brushes. After cleaning, paint interior stucco with two (2) coats of exterior Sherwin Williams Exterior Duration – Acrylic Latex, or approved equal, color to be determined.

Approved list of shingles – contractor must submit on the intended shingle to be used:

- Certaiteed – Landmark Pro – Weathered Wood
- Owens Corning – Duration Designer – Summer Harvest
- Atlas – Pinnacle Pristine – Majestic Shake



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DRAWN BY: PROJECT NUMBER:
22-01-30-09

DATE: 12.20.2022

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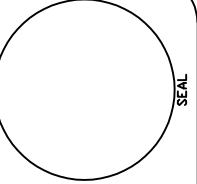
A-003

GENERAL NOTES

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- B. INSTALL SHINGLES AND ALL UNDERLAYMENT PER MANUFACTURER'S RECOMMENDATIONS. INCLUDE ALL ASSOCIATED ITEMS NEEDED FOR A COMPLETE ROOF PRODUCT.
- C. ALL EXISTING ROOF PENETRATIONS, TO REMAIN IN PLACE, AND TO BE PROPERLY FLASHED AND BOOTED PER MANUFACTURER'S RECOMMENDATIONS.
- D. TONGUE AND GROOVE WOOD TO RECEIVE TWO (2) COATS OF EXTERIOR SATIN SPAR URETHANE, CLEAR.
- E. PAINT ALL WOOD, EXCEPT 2X6 T&G, WITH TWO (2) COATS OF SHERWIN WILLIAMS EXTERIOR DURATION - ACRYLIC LATEX, OR APPROVED EQUAL, COLOR TO BE SABLE SW6083. PRIME ALL BARE WOOD PRIOR TO PAINTING.
- F. PAINT THE INTERIOR STUCCO WALLS OF THE SHELTER TWO (2) COATS OF SHERWIN WILLIAMS EXTERIOR DURATION - ACRYLIC LATEX PAINT, OR APPROVED EQUAL, COLOR TO BE DETERMINED.

KEYNOTES

1. DEMOLISH ALL EXISTING ROOFING, UNDERLAYMENT, FLASHING, AND ROOF DECKING. CLEAN ENTIRE ROOF STRUCTURE BY POWER-WASHING WITH NON-IONIC DETERGENT AND SCRUB WITH NYLON BRUSHES.
2. TRIM PURLINS AND BEAMS TO BE COMPLETELY UNDER THE OVERHANG OF THE ROOF. AFTER TRIMMING WOOD MEMBERS, EPOXY CONSOLIDATE AND FILL VOIDS IN ALL WOOD MEMBERS (PURLINS, BEAMS, AND COLUMNS). SAND AND SHAPE EPOXY TO MATCH ADJACENT WOOD.
3. DEMOLISH WOOD SHUTTERS ON ALL FOUR (4) WINDOWS, CLEAN AND PREP EXISTING WOOD FRAMES FOR NEW SHUTTERS.
4. CLEAN LAP SIDING, POWER-WASH WITH NON-IONIC DETERGENT AND NYLON BRISTLE BRUSHES. PAINT TWO (2) COATS OF SHERWIN WILLIAMS EXTERIOR DURATION - ACRYLIC LATEX, OR APPROVED EQUAL, COLOR TO BE SABLE SW6083.
5. CLEAN ENTIRE STONE AND STUCCO SHELTER, POWER-WASH WITH NON-IONIC DETERGENT AND NYLON BRISTLE BRUSHES. CONTRACTOR SHALL PAINT THE INTERIOR STUCCO WALLS OF THE SHELTER TWO (2) COATS OF SHERWIN WILLIAMS EXTERIOR DURATION - ACRYLIC LATEX PAINT, OR APPROVED EQUAL, COLOR TO BE DETERMINED.
6. 2X6 DOUGLAS FIR TONGUE AND GROOVE ROOF DECKING OVER ENTIRE STRUCTURE IN SIMILAR LAYOUT TO THE ORIGINAL. INSTALL WITH $\frac{5}{16}$ " X 5" LONG GRK RSS SCREWS, TWO (2) AT EACH PURLIN. COAT T&G DECKING WITH TWO (2) COATS OF CLEAR SATIN SPAR URETHANE.
7. COVER ENTIRE ROOF DECK WITH 40MIL SELF-ADHERED WATER AND ICE SHIELD UNDERLAYMENT AND INSTALL ALUMINUM DRIP-EDGE, COLOR TO BE DARK BROWN, AROUND ENTIRE PERIMETER OF ROOF, PER MANUFACTURER'S INSTRUCTIONS. INSTALL SHINGLES, AS CALLED OUT IN THE PROJECT NARRATIVE, OVER THE ENTIRE ROOF PER MANUFACTURER'S RECOMMENDATIONS.
8. INSTALL NEW 16OZ COPPER SADDLE AND BASE FLASHING, APRON, STEP, AND COUNTER-FLASHING AROUND CHIMNEY AND AND CHIMNEY CRICKET.
9. ALL FOUR (4) WINDOWS TO RECEIVE SHUTTER SETS MADE FROM KILN DRIED WHITE OAK SHUTTERS OF SIMILAR DIMENSION AND LAYOUT. PRIME, THEN PAINT FRAME AND SHUTTERS WITH TWO (2) COATS OF SHERWIN WILLIAMS EXTERIOR DURATION - ACRYLIC LATEX, OR APPROVED EQUAL, COLOR TO BE SABLE SW6083. REPLACE ALL HARDWARE WITH STAINLESS STEEL HARDWARE OF SIMILAR STYLE AND EPOXY PAINT BLACK.
10. ALL WOOD BEAMS AND PURLINS TO BE POWER-WASHED WITH NON-IONIC DETERGENT AND NYLON BRISTLE BRUSHES. PAINT ALL WOOD, EXCEPT 2X6 T&G, WITH TWO (2) COATS OF SHERWIN WILLIAMS EXTERIOR DURATION - ACRYLIC LATEX, OR APPROVED EQUAL, COLOR TO BE SABLE SW6083. PRIME ALL BARE WOOD PRIOR TO PAINTING.
11. INSTALL NEW KICKER FROM STONE WALL TO OVERHEAD BEAM. KICKER TO BE KILN DRIED HARDWOOD OF SIMILAR SIZE TO ADJACENT KICKERS. MECHANICALLY FASTEN WITH STAINLESS STEEL HARDWARE, AS NEEDED, EPOXY PAINT HARDWARE BLACK. PRIME AND PAINT TWO (2) COATS OF SHERWIN WILLIAMS EXTERIOR DURATION - ACRYLIC LATEX, OR APPROVED EQUAL, COLOR TO BE SABLE SW6083.
12. THOROUGHLY CLEAN EXISTING MANTEL, PAINT TWO (2) COATS OF SHERWIN WILLIAMS EXTERIOR DURATION - ACRYLIC LATEX, OR APPROVED EQUAL, COLOR TO BE SABLE SW6083.
13. DEMOLISH EXISTING CONCRETE SLAB AND OVER-EXCAVATE 24" OF DIRT IN PREPARATION OF NEW ROCK FILL.
14. 5" CONCRETE SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS, OUTER EDGE OF SLAB TO BE THICKENED TO 1'-0" AS SHOWN.
15. 1'-0" DEEP OF 3" CLEAN ROCK WITH 1'-0" DEEP OF $\frac{3}{4}$ " ROCK SUBBASE FOR CONCRETE SLAB.
16. EXISTING WOOD COLUMN TO REMAIN, TRIM BOTTOM OF COLUMN TO FIT ON PLINTH, UNDER-PIN SHELTER ROOF. JACK ROOF TO SQUARE AND LEVEL ROOF STRUCTURE, TRIM COLUMN APPROPRIATELY TO ALLOW IT TO BE SQUARE AND LEVEL AFTER SETTING ON PLINTHS.
17. $\frac{3}{8}$ " A36 STEEL COLUMN BRACKET, POWDER COAT BRACKET SATIN BLACK, FIELD VERIFY COLUMN DIAMETER FOR DIMENSIONS.
18. CONCRETE SAW-CUT, CONTROL JOINT.
19. $\frac{3}{4}$ " ANCHOR BOLT, EMBED IN FOOTING 16" MINIMUM.
20. 16" TALL X 16" WIDE X 16" DEEP, SPLIT-FACE GRANITE OR SIOUX QUARTZITE, PLINTH BLOCK. TOP AND BOTTOM TO BE HONED SMOOTH WITH 1" CHAMFERED TOP EDGE. VERTICAL 1.25" DIAMETER HOLE IN CENTER FOR ALL-THREAD TO BASE-PLATE ATTACHMENT, FULLY GROUT HOLE AFTER PLACEMENT OF PLINTH.
21. 20" DIAMETER CONCRETE COLUMN BASE 4'-0" DEEP WITH #4 REBAR 12" O.C. ALL DIRECTIONS. FORM UP LAST 12" SQUARE (20" X 20") AS SHOWN ON PLANS, FOR NEW STONE PLINTHS. CHAMFER TOP 1" EDGE AT 45 DEGREES AS SHOWN, FULLY GROUT STONE PLINTH ONTO CONCRETE, $\frac{3}{4}$ " MORTAR JOINT.
22. NOT USED.
23. NOT USED.
24. $\frac{3}{4}$ " HOT-DIPPED GALVANIZED HEX-HEAD BOLTS WITH LOCK WASHERS, FENDER WASHERS BOTH SIDES, AND NUTS.
25. $\frac{1}{2}$ " EXPANSION MATERIAL WITH SELF-LEVELING POLYURETHANE CAULK AROUND PERIMETER OF FOOTING.
26. $\frac{3}{4}$ " X 42" LONG, HOT-DIPPED GALVANIZED ALL-THREAD ANCHOR BOLT RUNNING IN THE CENTER FOR BASE-PLATE ATTACHMENT, EMBED MINIMUM 18" INTO CONCRETE. ATTACHED TO BASE-PLATE WITH STAINLESS STEEL FENDER WASHER, LOCK WASHER, AND NUT, CUT EXCESS ALL-THREAD OFF AFTER BASE-PLATE ATTACHMENT.
27. SAW CUT CONTROL JOINTS.



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Shelter Restoration REBID for:
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DRAWN BY: PROJECT NUMBER
22-01-30-09

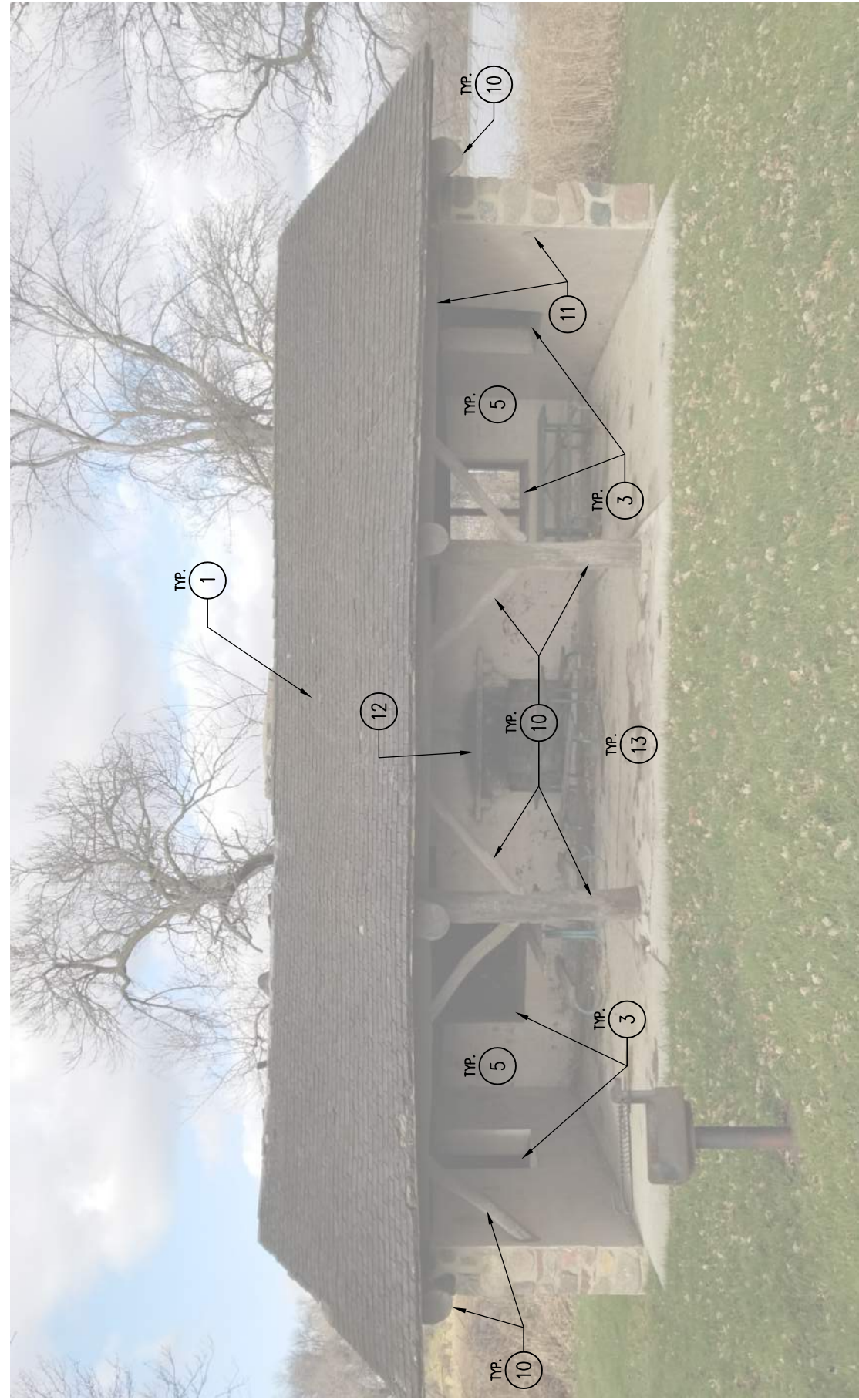
DATE: 12.20.2022

SHEET No:

A-004



02 PHOTO – BEAMS, PURLINS, AND DECKING
SCALE: NTS



01 PHOTO – SOUTH SHELTER ELEVATION
SCALE: NTS

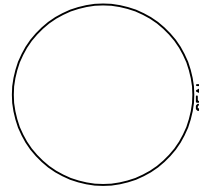
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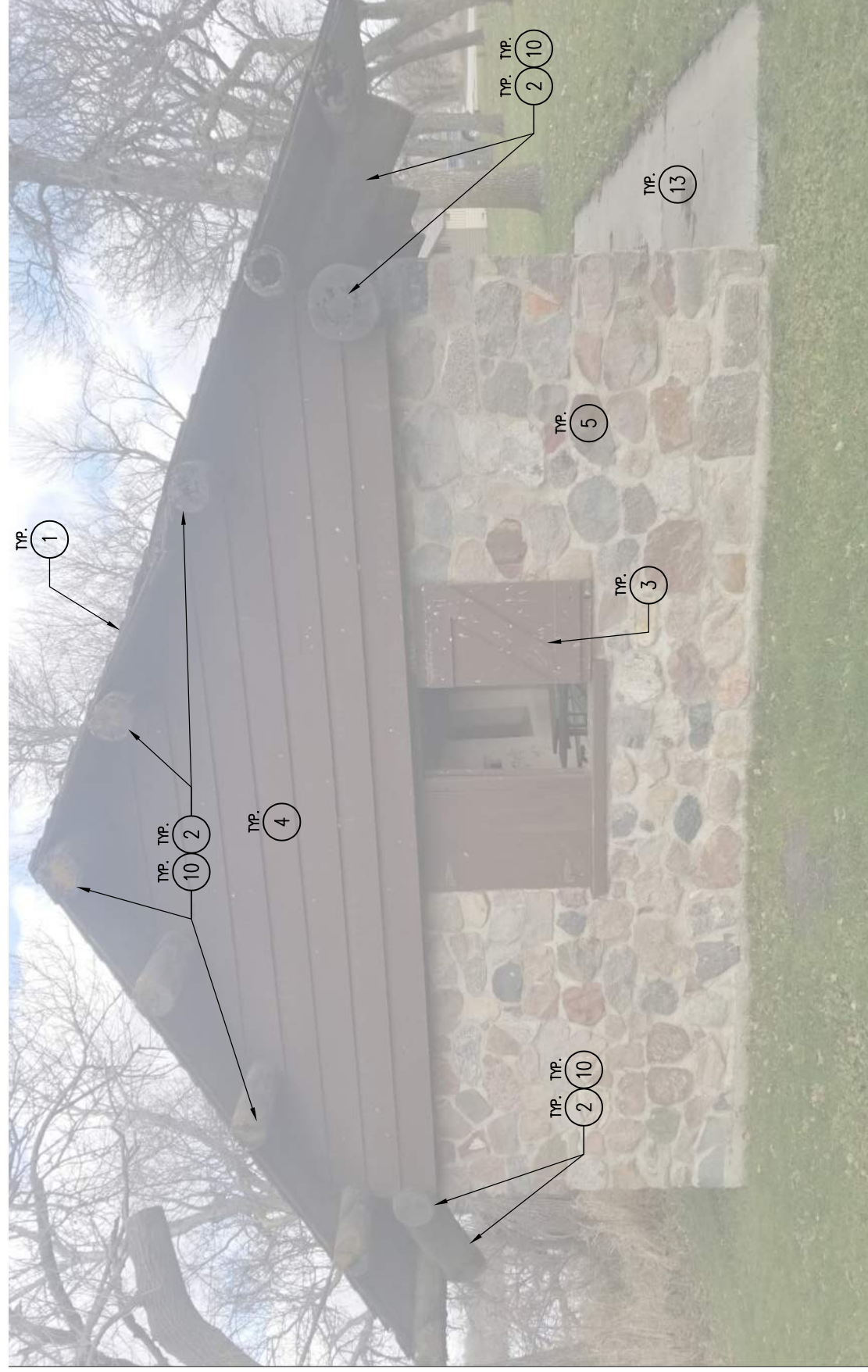
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02 PHOTO – WEST SHELTER ELEVATION

SCALE: NTS



01 PHOTO – EAST SHELTER ELEVATION

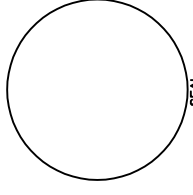
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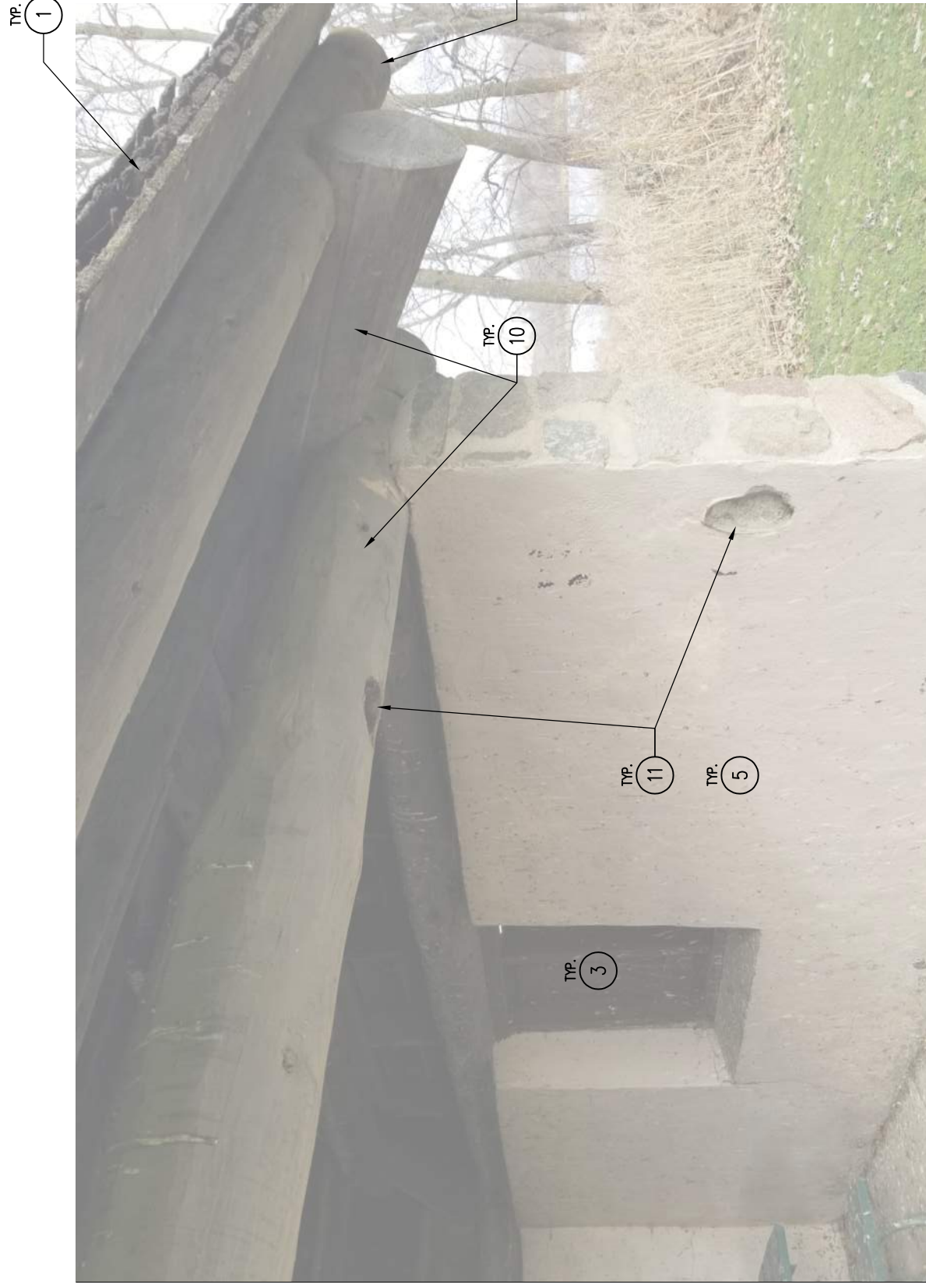


A-051



02 PHOTO – CHIMNEY FLASHING

SCALE: NTS



01 PHOTO – BEAM AND PURLIN

SCALE: NTS

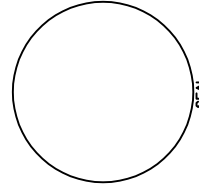
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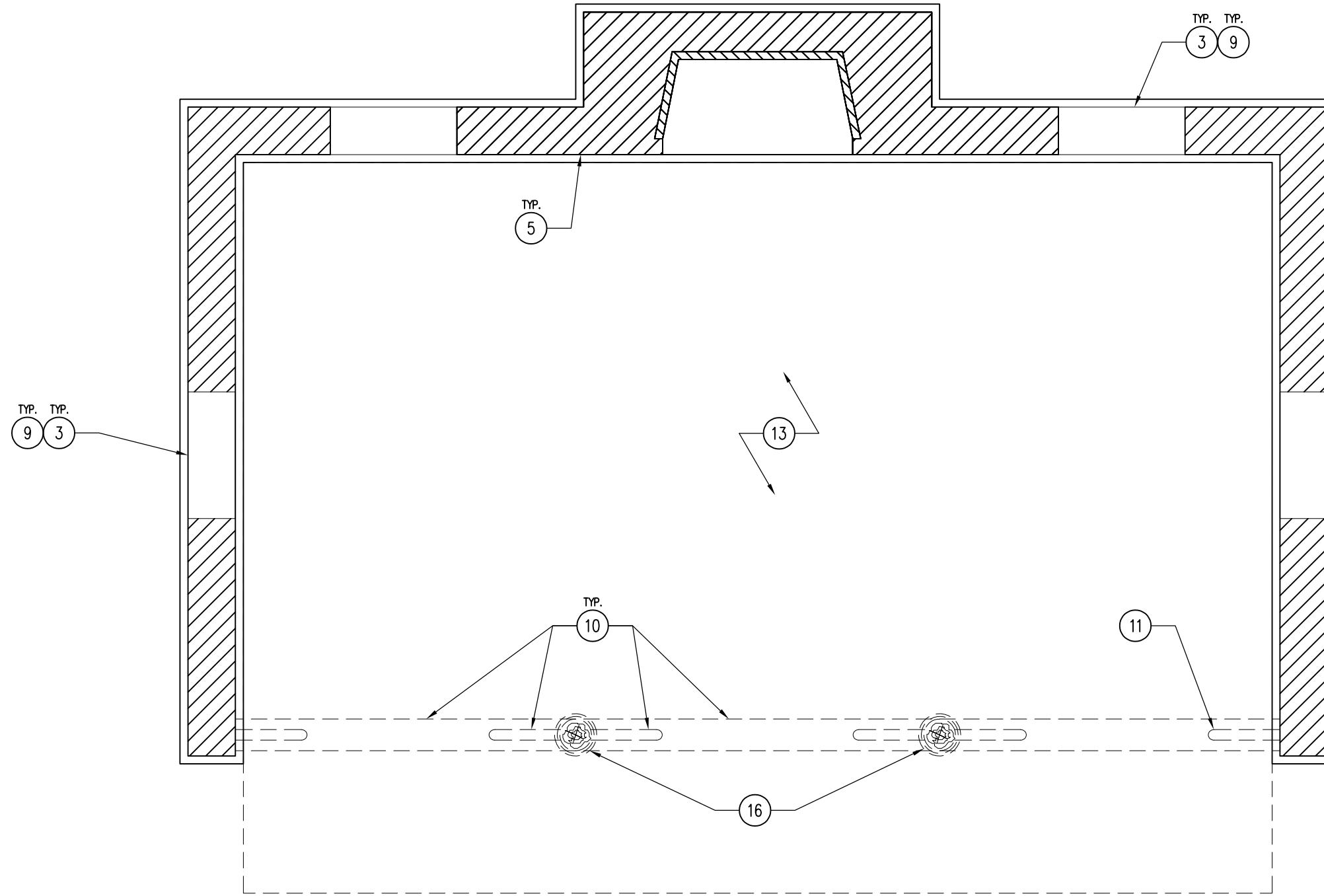
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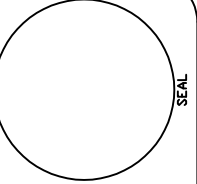
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SEAL



01 REFERENCE FLOOR PLAN
SCALE: 1/4" = 1'-0"



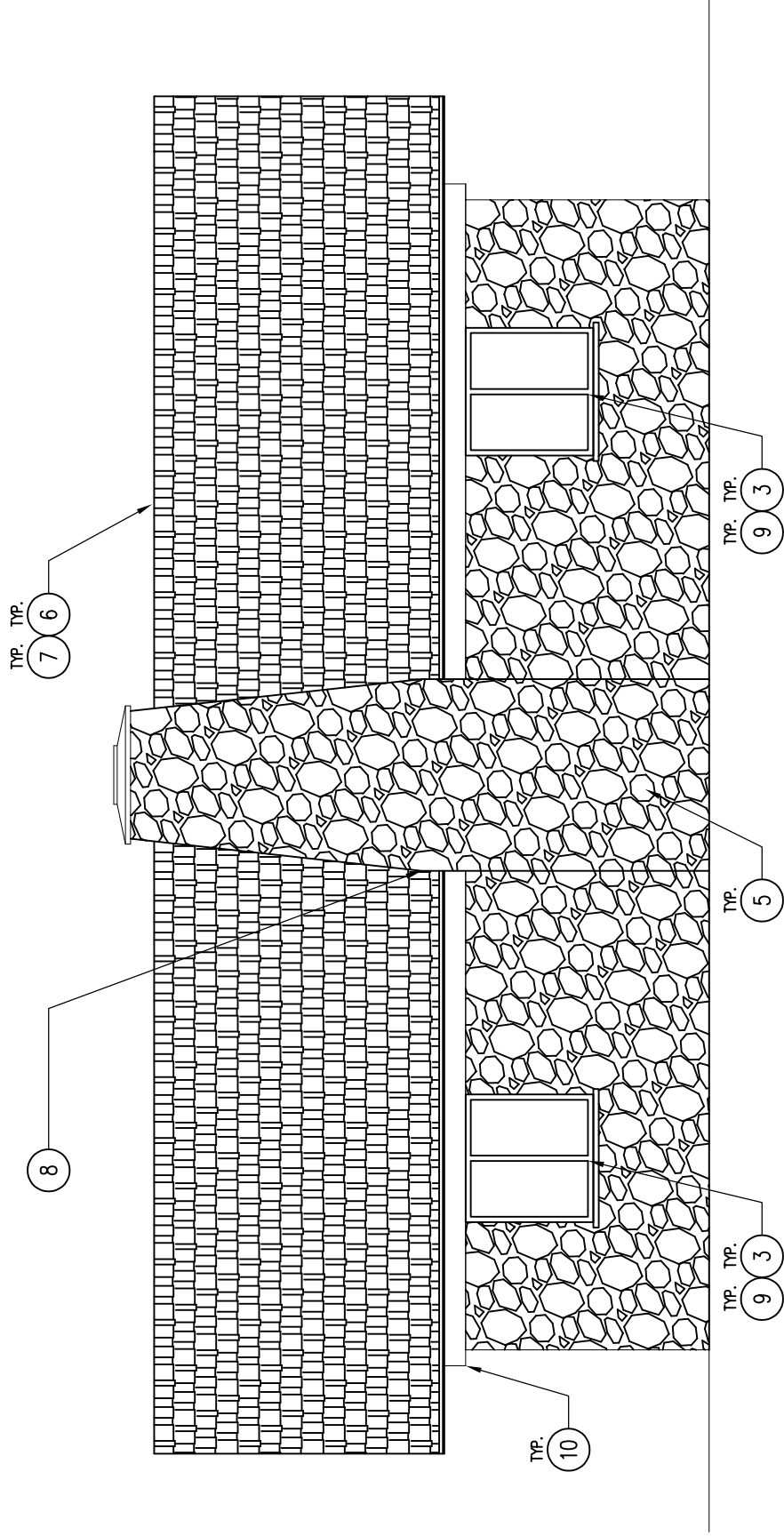
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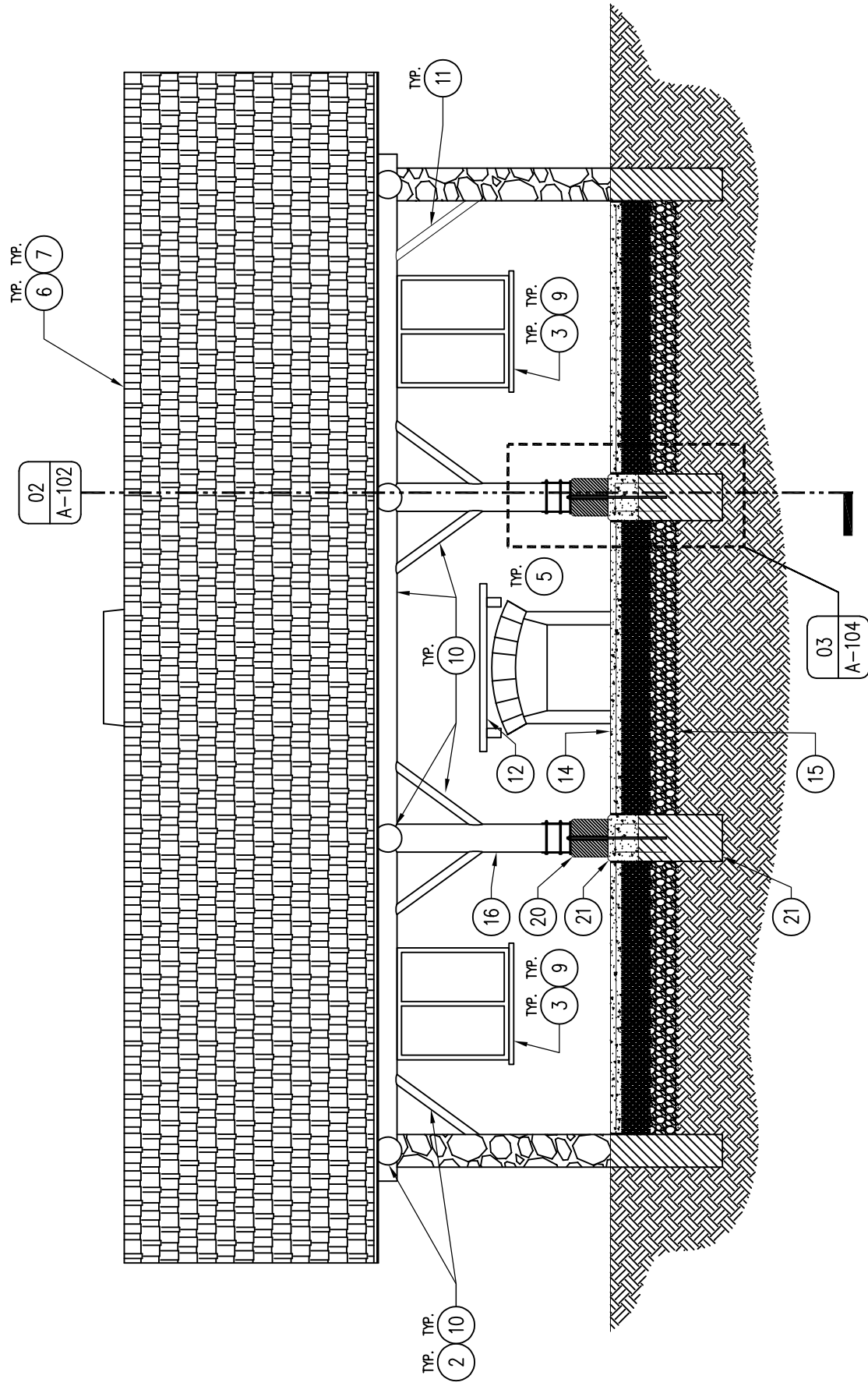
A-100



02 SHELTER ELEVATION – NORTH

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

02



01 SHELTER ELEVATION / SECTION – SOUTH

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

01

DRAWN BY:	PROJECT NUMBER:
CHK'D BY:	DATE:
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A-101

Shelter Restoration REBID for:

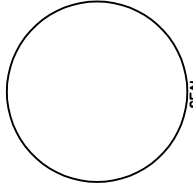
Trappers Bay State Park

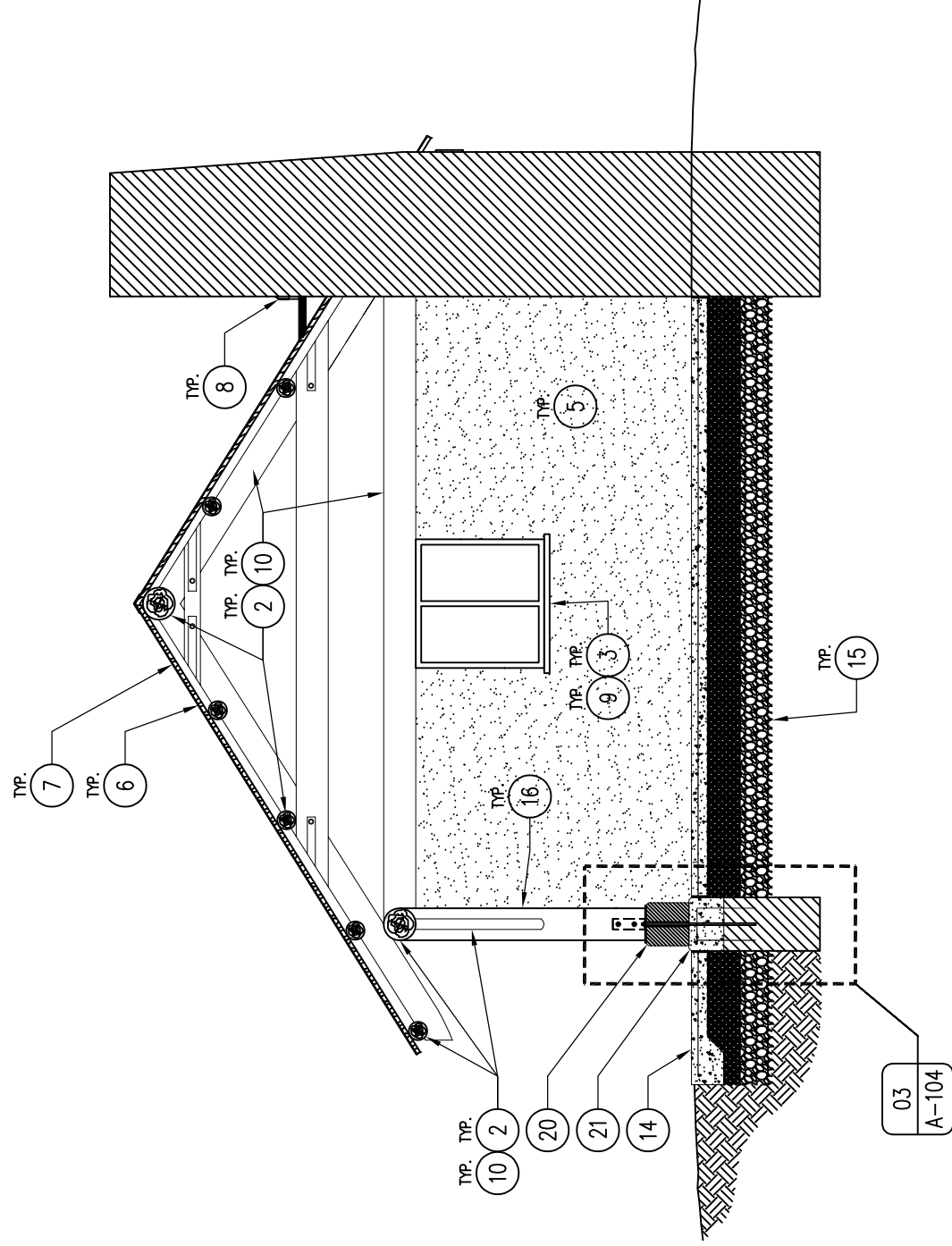
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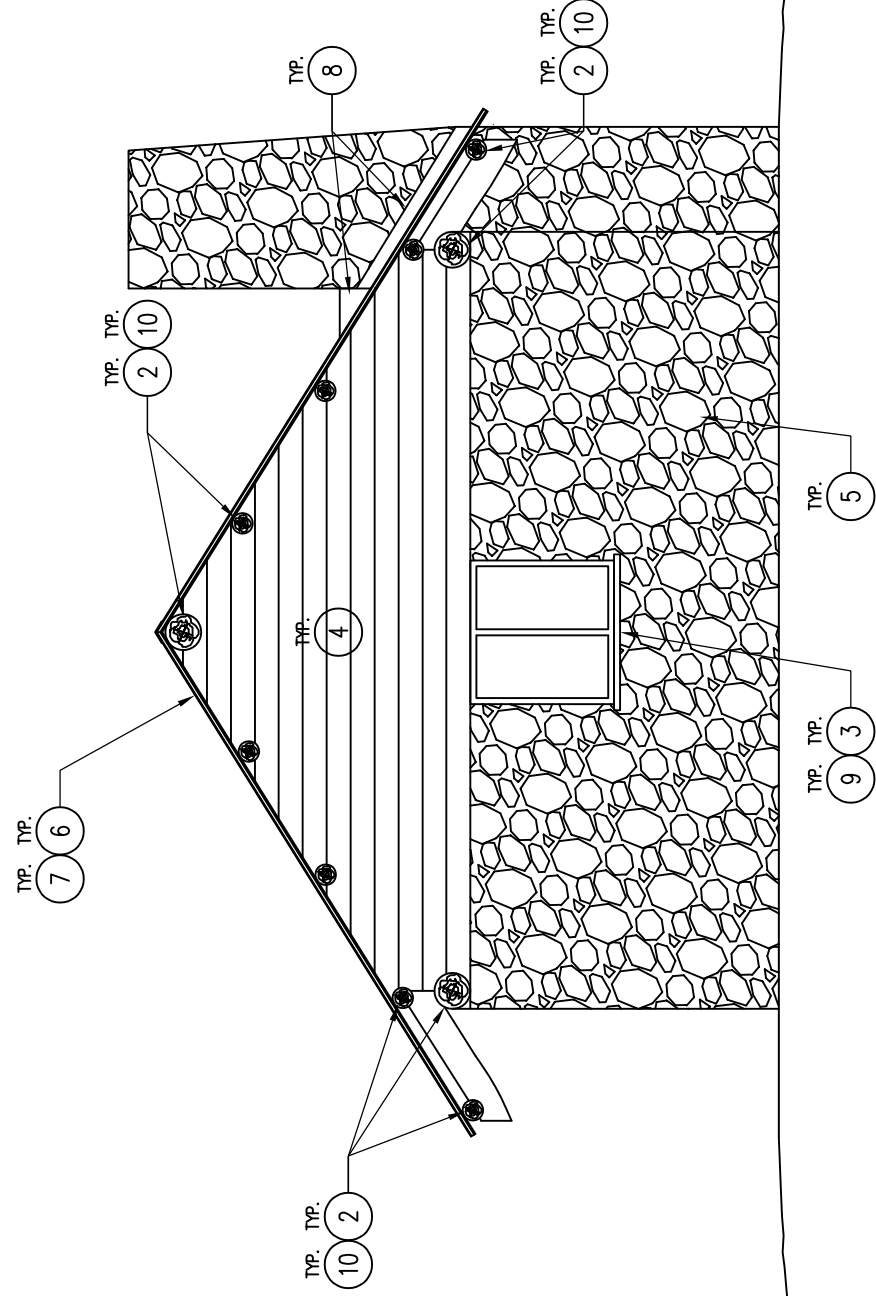
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02 SHELTER SECTION

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



01 SHELTER ELEVATION - EAST (WEST SIMILAR)

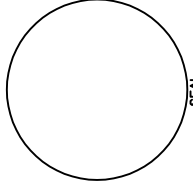
SCALE: 3/16" = 1'-0"

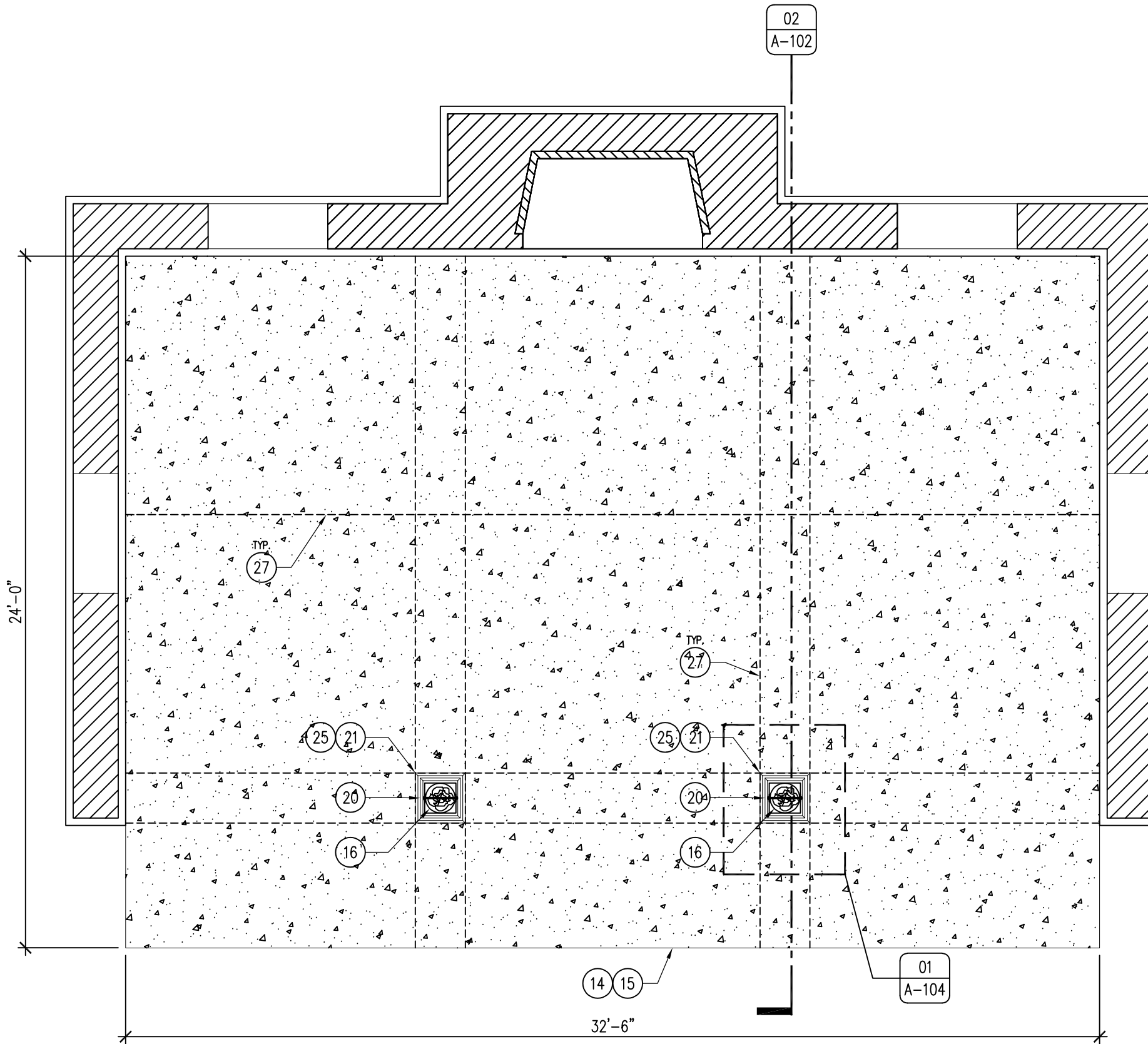
DRAWN BY:	PROJECT NUMBER:
CHK'D BY:	DATE:
SHEET No:	

Shelter Restoration REBID for:
Trappers Bay State Park
 309 Trapper's Bay Road Lake Park, IA 51347

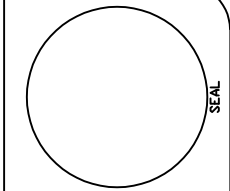


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01 SLAB PLAN
SCALE: 1/4" = 1'-0"



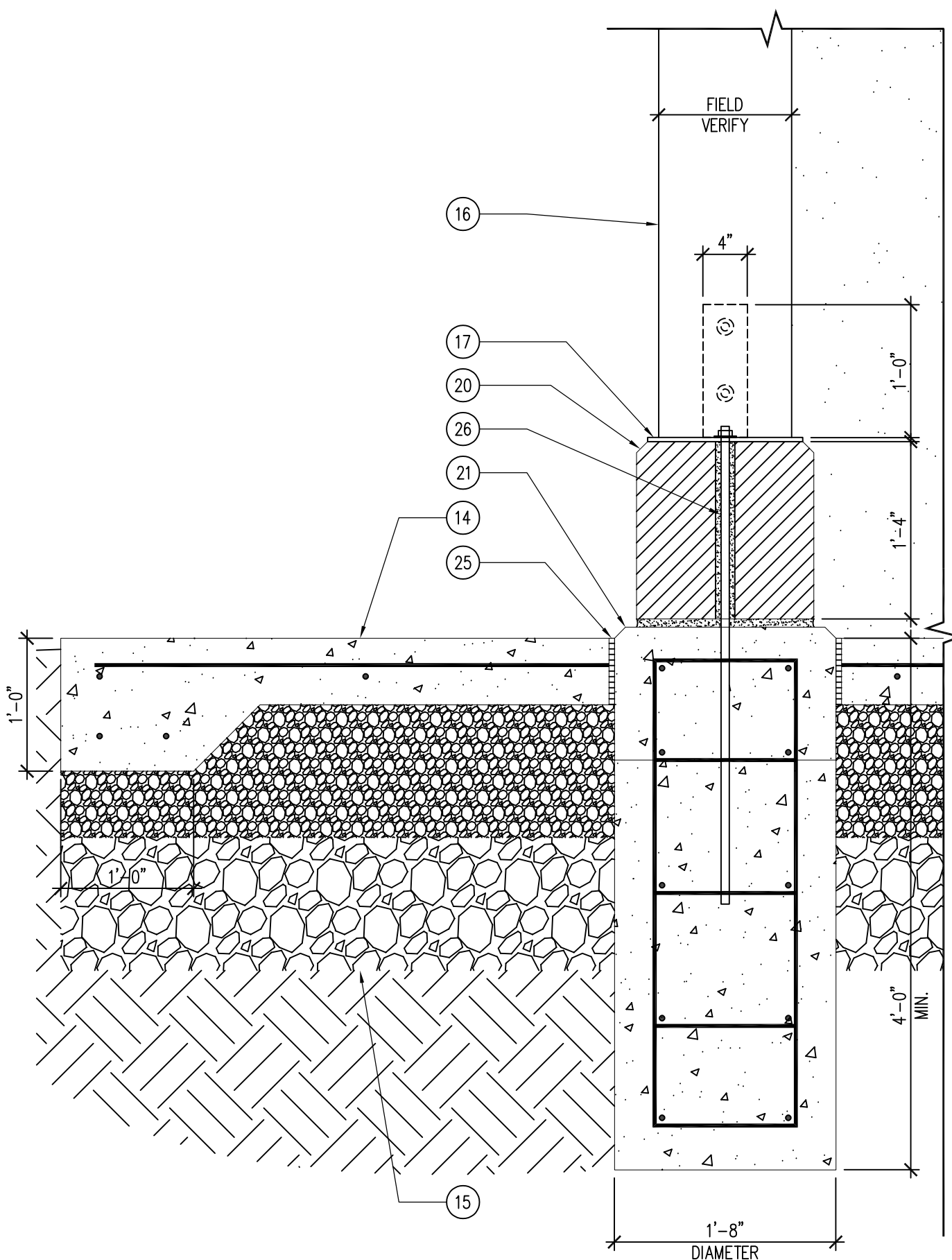
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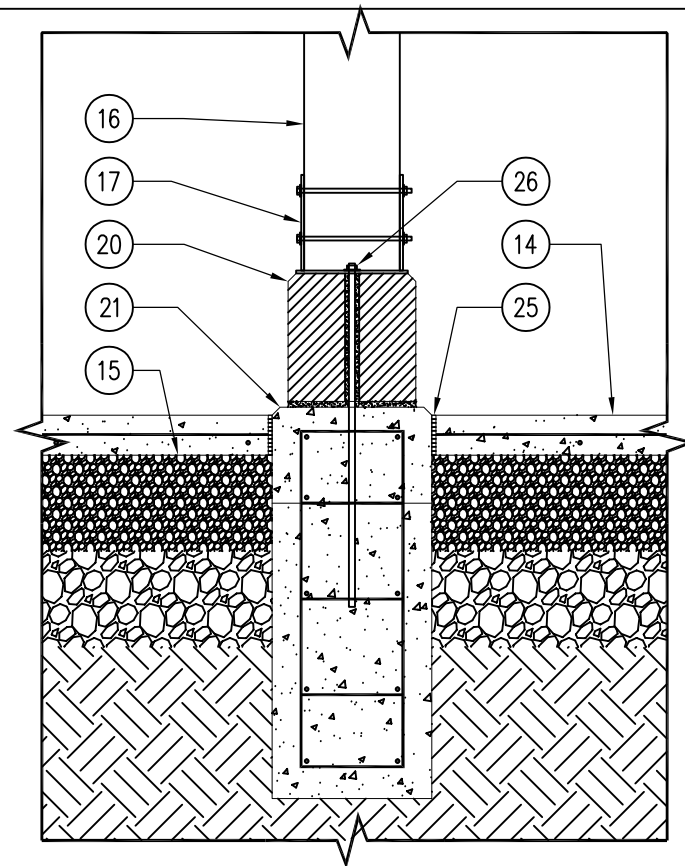
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SHEET No:	

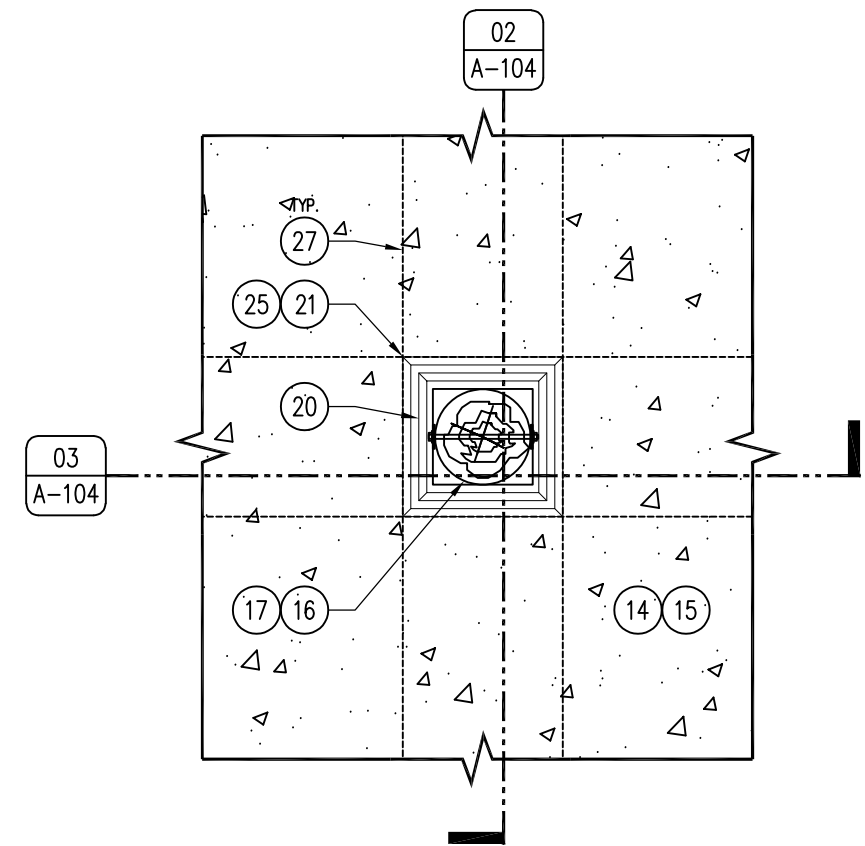
A-103



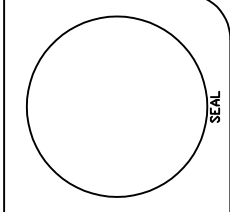
02 DETAIL - COLUMN SECTION
SCALE: 1" = 1'-0"



03 DETAIL - COLUMN SECTION
SCALE: 1/2" = 1'-0"



01 DETAIL - COLUMN PLAN
SCALE: 1/2" = 1'-0"



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SHEET No:	12.20.2022
A-104	