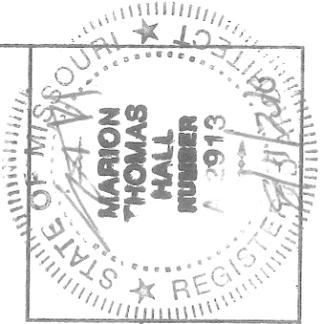


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- 2 -8 FLOOR PLAN
- 3 -8 CONCRETE DETAILS
- 4 -8 CONCRETE DETAILS
- 5 -8 SOUTH ELEVATION
- 6 -8 EAST ELEVATION
- 7 -8 SECTION
- 8 -8 ELECTRICAL PLAN

CODE REQUIREMENTS

BUILDING CODE - CURRENT IBC



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DATE 8-10-16

LINN FABRIC
SALT STRUCTURE
Linn, MO - Osage County

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FACILITIES MANAGEMENT

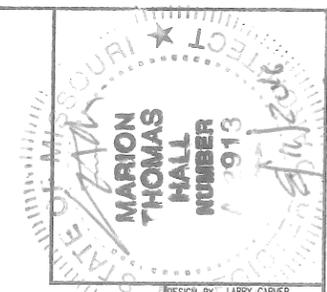
COVER SHEET

MISSOURI DEPARTMENT OF TRANSPORTATION

CENTRAL DISTRICT - LINN FABRIC SALT STRUCTURE

143 COMMERCIAL DRIVE, LINN, MO 65051

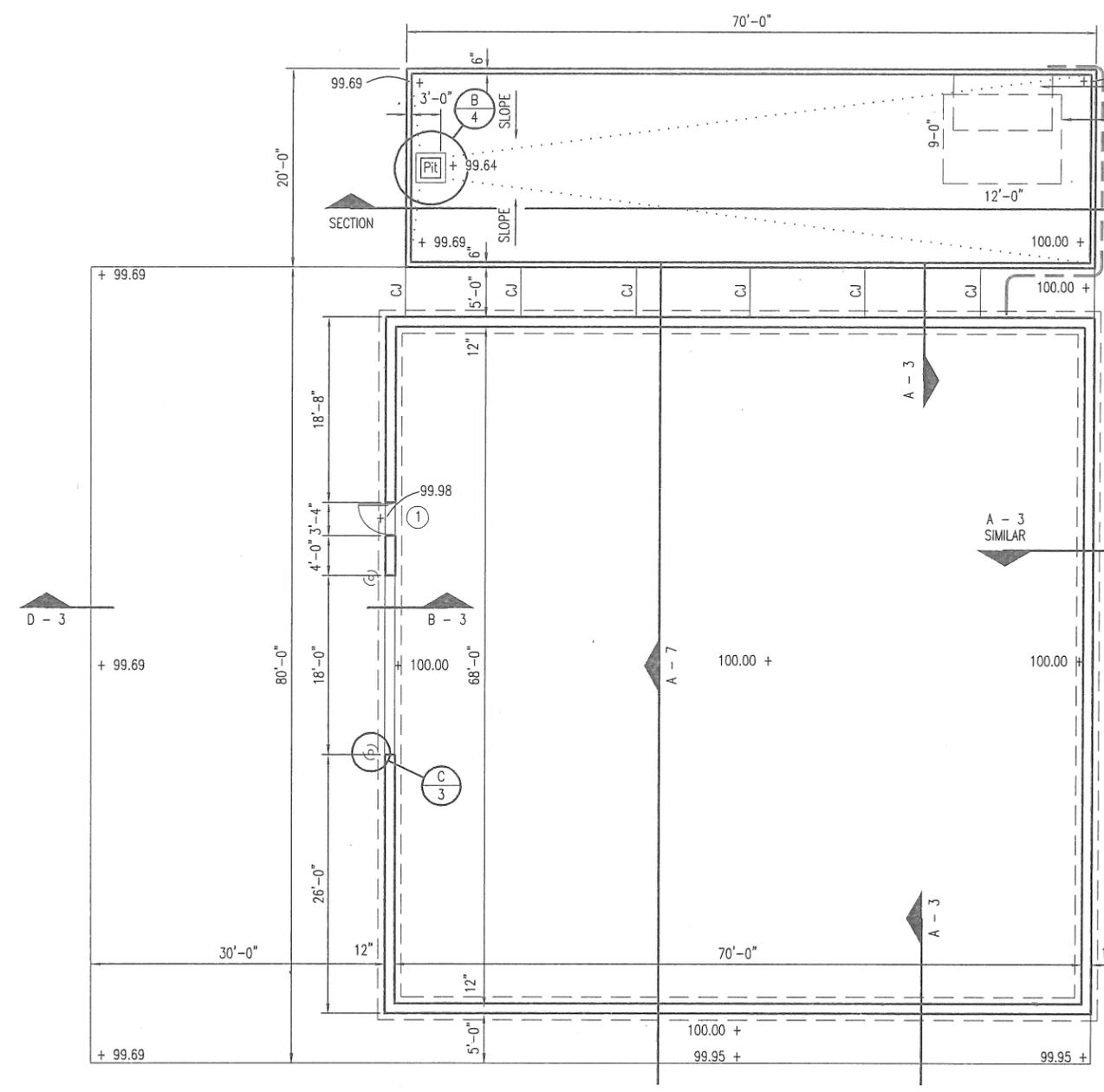
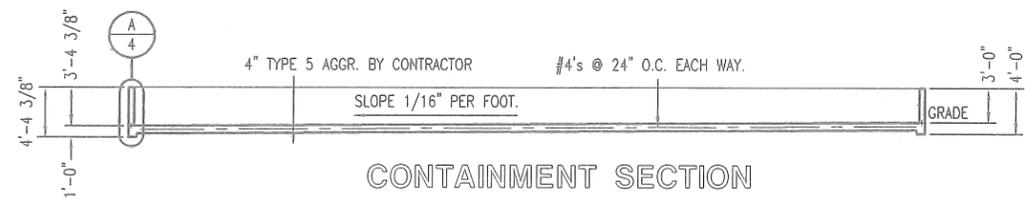
OSAGE COUNTY



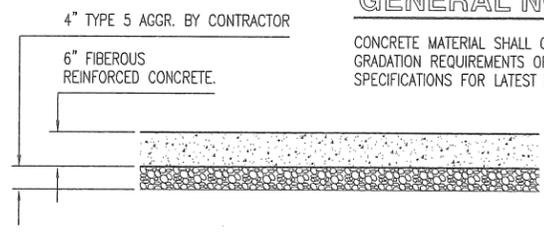
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LINN FABRIC
SALT STRUCTURE
Linn, MO - Osage County



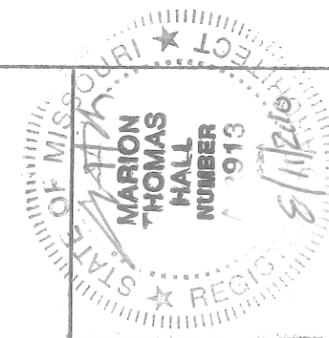
- MODOT PROVIDED AND INSTALLED BRINE MAKER.
- MODOT PROVIDED AND INSTALLED SHED.
- CONTRACTOR TO PROVIDE 2" CONDUIT WITH SWEEPS FOR FUTURE ELECTRICAL TO BRINE MOTOR. CAP ENDS @ 36" ABOVE GRADE. PROVIDE PULL-WIRE.
- INSTALL MAINGUARD #77 BLOW-OFF HYDRANT OR APPROVED EQUAL. SEE DETAIL C-4.
- PROVIDE 2" SCHEDULE 80 WATER LINE FOR A FUNCTIONAL SYSTEM.



GENERAL NOTES:
CONCRETE MATERIAL SHALL COMPLY WITH THE QUALITY AND GRADATION REQUIREMENTS OF THE MISSOURI STANDARD SPECIFICATIONS FOR LATEST EDITION OF HIGHWAY CONSTRUCTION.

A
2 FLOOR PLAN
SCALE: 1/16" = 1'-0"
NORTH

SEE SITE PLAN.

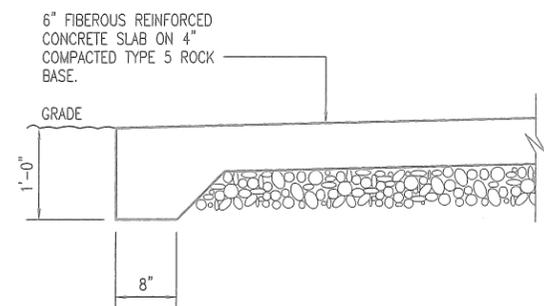


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LINN FABRIC
SALT STRUCTURE
Linn, MO - Osage County

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FACILITIES MANAGEMENT

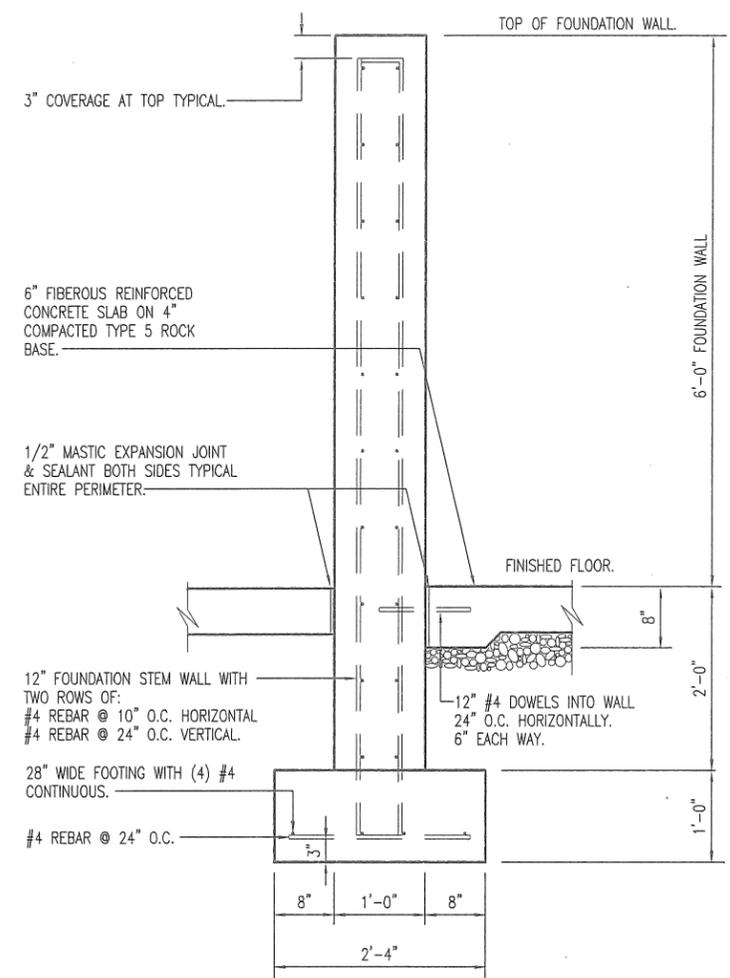
CONCRETE DETAILS



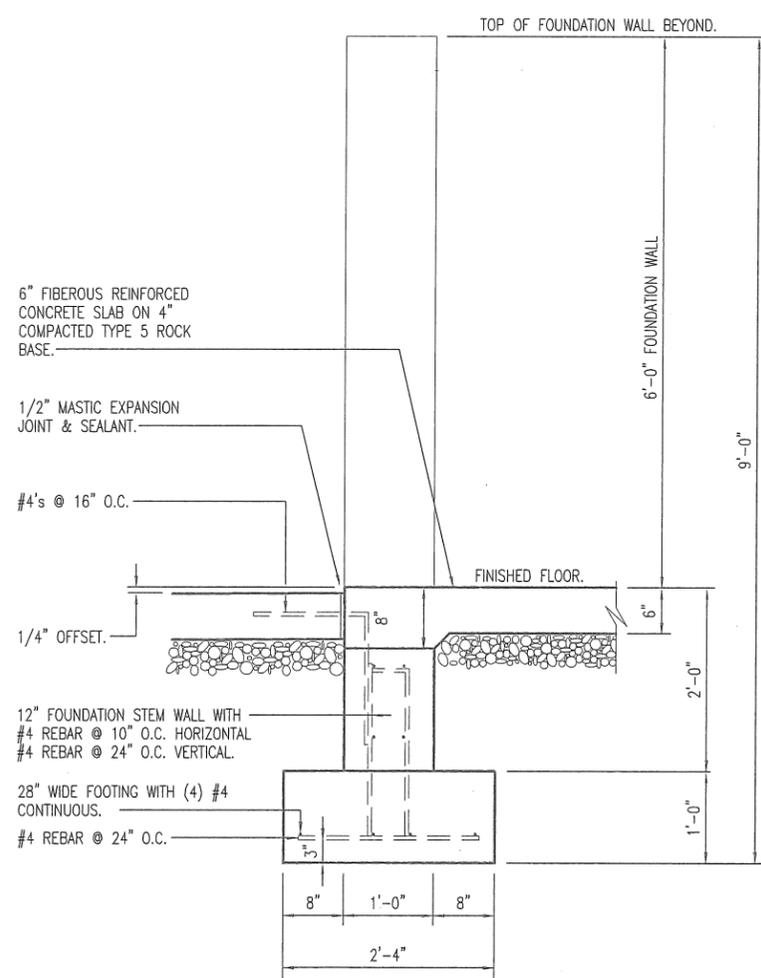
D
3 SLAB SECTION
SCALE: 1/2" = 1'-0"

CONCRETE/SITE NOTES

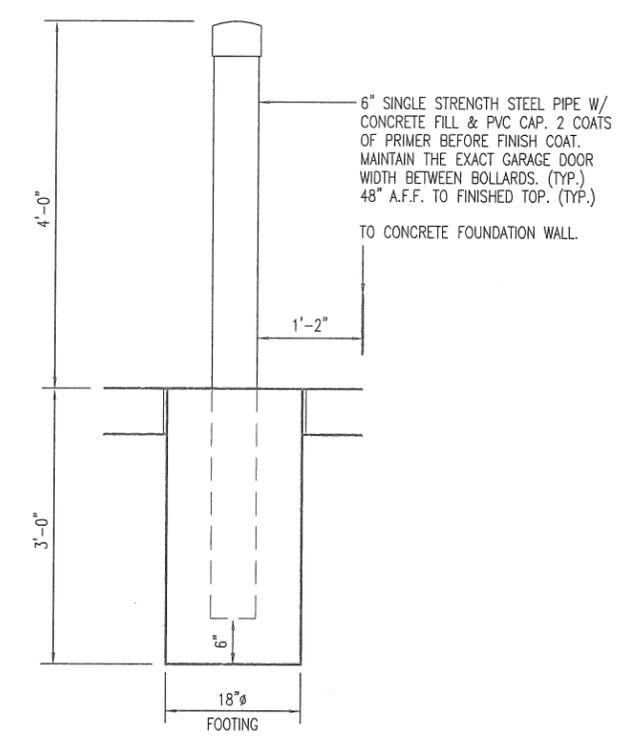
1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. CONTRACTOR SHALL ASSUME A SOIL BEARING CAPACITY OF 2000 PSF. IF WET OR UNUSUAL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. BUILDING LOCATION HAS BEEN STAKED AND EXCAVATED TO 10" BELOW FINISH GRADE.
4. ALL CONCRETE SHALL BE TYPE 1 CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS AND NOT TO EXCEED 4" SLUMP.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
6. CONCRETE FLATWORK SHALL HAVE A LIGHT POWER TROWELED FINISH.
7. SAWED CONTROL JOINTS SHALL BE CUT @ 15'-0" O.C. EACH WAY x 2" DEEP, CLEANED FREE OF ALL DEBRIS AND FILLED WITH PRC PERMAPOL "RC-550" JOINT SEALANT OR APPROVED EQUAL SEALANT TO BE HELD DOWN 1/4" BELOW FINISHED SURFACE.
8. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.
9. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
10. ALL CONCRETE FLOORS AND SLABS SHALL RECEIVE A CURING/SEALING FINISH PER THE SPECIFICATION SECTION 03346.
11. ALL CONCRETE FOUNDATION WALLS TO MONOLITHICALLY POURED.
12. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER ASTM A615 GRADE 60.



OPTION #2
A
3 FOUNDATION WALL
SCALE: 1/2" = 1'-0"



SIMILAR AT PASSAGE DOOR
B
3 EXTERIOR FOUNDATION WALL @ DOOR
SCALE: 1/2" = 1'-0"



(2 TOTAL)
C
3 BOLLARD
SCALE: 1/2" = 1'-0"

CONCRETE NOTES FOR CONTAINMENT

CONCRETE STRENGTH: 4,000 LB. PSI @ 28 DAYS.

CONCRETE FINISH: EXPOSED FORM FINISH SHOULD BE RUBBED DOWN OR CHIP AND SMOOTH FINIS OR OTHER RAISED AREAS 1/4" OR MORE IN HEIGHT. REPAIR SURFACE DEFECTS, INCLUDING TIE HOLES, IMMEDIATELY AFTER REMOVING FORMWORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SMOOTH FINISHING OF ALL CONCRETE SLABS TO PROPER ELEVATION TO ENSURE THAT ALL SURFACE MOISTURE WILL DRAIN FREELY TO DRAIN.

TESTING: CONTRACTOR IS TO PULL ONE SAMPLE FROM FLOOR AND ONE FROM THE WALLS AND LEAVE AT EACH LOCATION. MODOT WILL PERFORM THE CYLINDER TESTING. CONTRACTOR SHOULD ALSO PROVIDE A DESIGN MIX FROM THE BATCH PLANT.

FILLING AND BACKFILLING: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE THE SPECIFIED MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DENSITY FOR THE AREA. FOOTPRINT OF CONTAINMENT STRUCTURE LEVELED BY MODOT 12" BELOW FINISHED FLOOR.

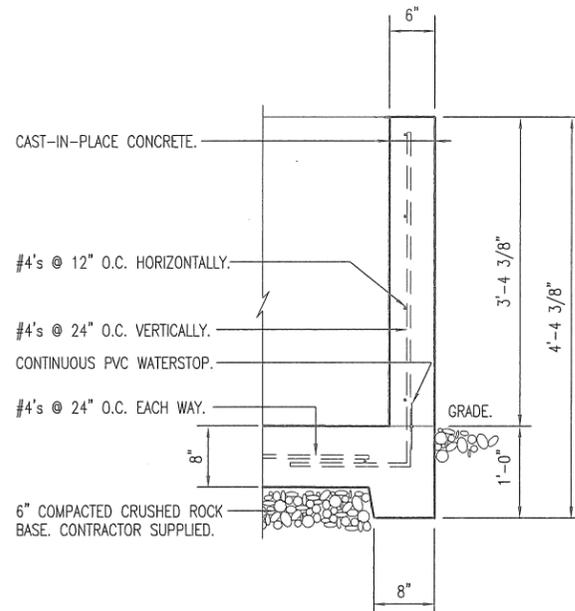
WATERSTOP: GREENSTREAK INC. - STYLE NUMBER 703, 6" x 3/16", PVC, RIBBED, SERRATED WITH CENTERBULB OR EQUAL. OPTIONAL: WATERSTOP RX WITH 2-1/2" x 1-1/2" KEYWAY.

EXCAVATION: CONTRACTOR TO SLOPE GRADE AWAY FROM NEW CONTAINMENT STRUCTURE AS REQUIRED WITH TYPE 5 ROCK BASE AT A MINIMUM OF 15'-0" ON THREE SIDES.

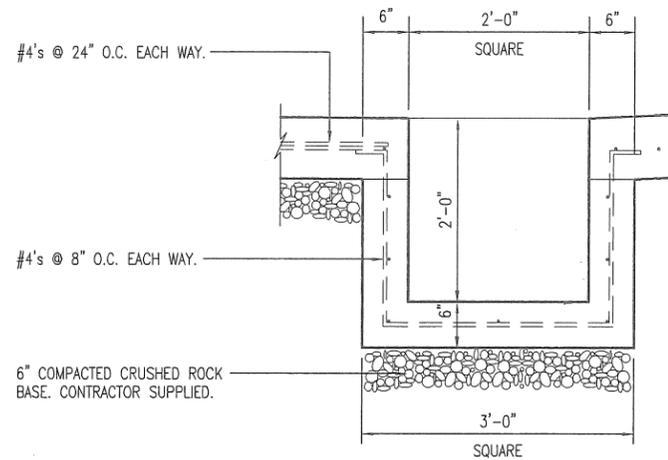
STAKING: STRUCTURE LOCATION STAKED BY MODOT AT MAINTENANCE SITE.

AIR ENTRAINMENT: EXPOSED EXTERIOR CONCRETE 6% ± 2%.

EXPANSION JOINTS: SAWCUT @ 20'-0" O.C. MAXIMUM 1-1/2" DEEP. ADD BACKER ROD AND SEALANT.

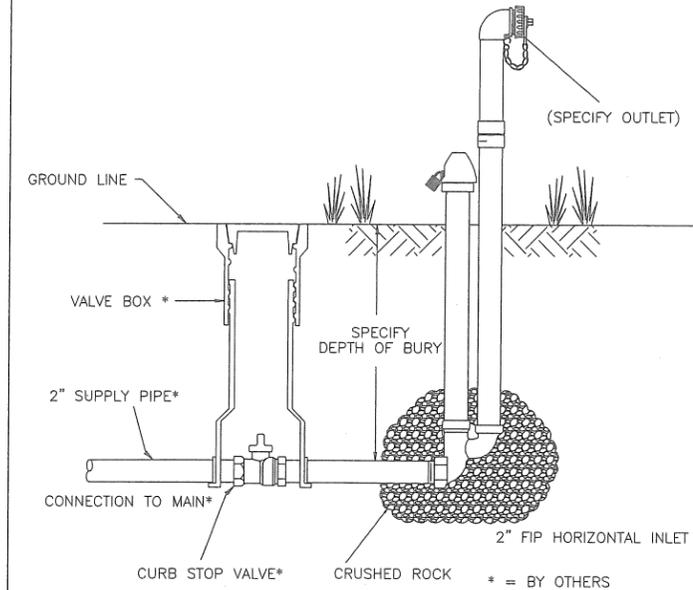


A DETAIL
4 SCALE: 1/2" = 1'-0"



B CENTER ALONG 22'-0" WALL.
SUMP PUMP PIT
4 SCALE: 1/2" = 1'-0"

MAINGUARD NO. 77 BLOW-OFF HYDRANT



Post Hydrants shall be non-freezing, self draining type with a bury. These hydrants will be furnished with a 2" FIP horizontal inlet, a non-turning operating rod, and shall open left. Bronze operating mechanism and aluminum plunger design, and be servicable from above grade with no digging. The outlet shall also be bronze and be 2-1/2" NST. Hydrants shall be lockable to prevent unauthorized use as manufactured by Kupferle Foundry Co., St. Louis, MO, or approved equal.

Inlet Pressure (psi)	Flow Rate (gpm)
75	675
100	742
125	809
150	856

BRAIN
F.M.
APPROVED

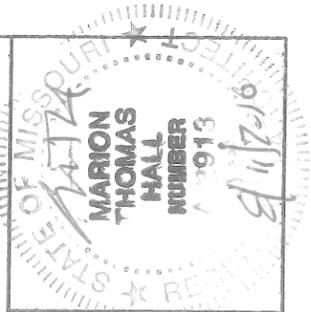
DATE
1-30-13
DATE

KUPFERLE FOUNDRY COMPANY
2611 NORTH 9TH STREET, ST. LOUIS, MO 63102
314-291-8728 800-221-3080 FAX 314-291-2829
<http://www.hydrants.com>

THIS DRAWING IS THE PROPERTY OF THE KUPFERLE FOUNDRY COMPANY. IT IS NOT TO BE USED OR REPLICATED WITHOUT PERMISSION OF THE OWNER.

DATE REVISION PART NO. 877 MAINGUARD POST HYDRANT SHEET 1 OF 1

C OR EQUAL
HYDRANT POST
4 SCALE: NONE

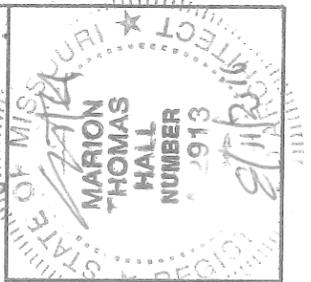


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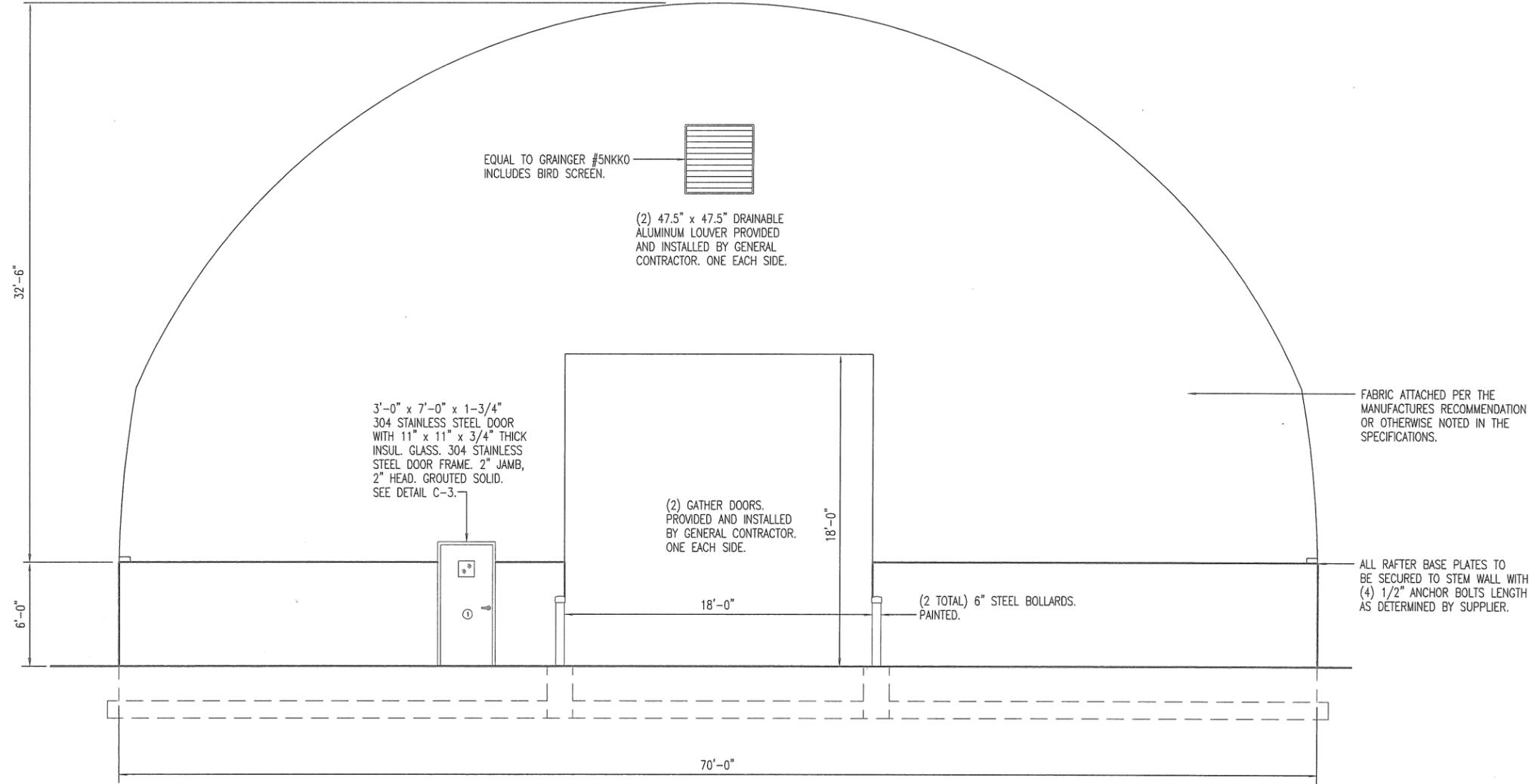
LINN FABRIC
SALT STRUCTURE
Linn, MO - Osage County

MISSOURI DEPARTMENT
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FACILITIES MANAGEMENT

CONCRETE DETAILS



DESIGN BY: LIBBY CARVER
DATE: 11/17/22

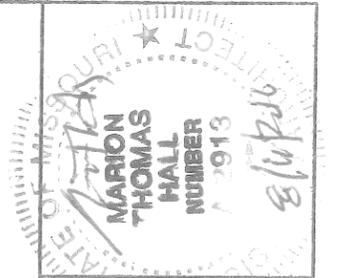


A SOUTH ELEVATION
5 SCALE: 1/8" = 1'-0"

LINN FABRIC
SALT STRUCTURE
Linn, MO - Osage County

MISSOURI DEPARTMENT
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SOUTH ELEVATION



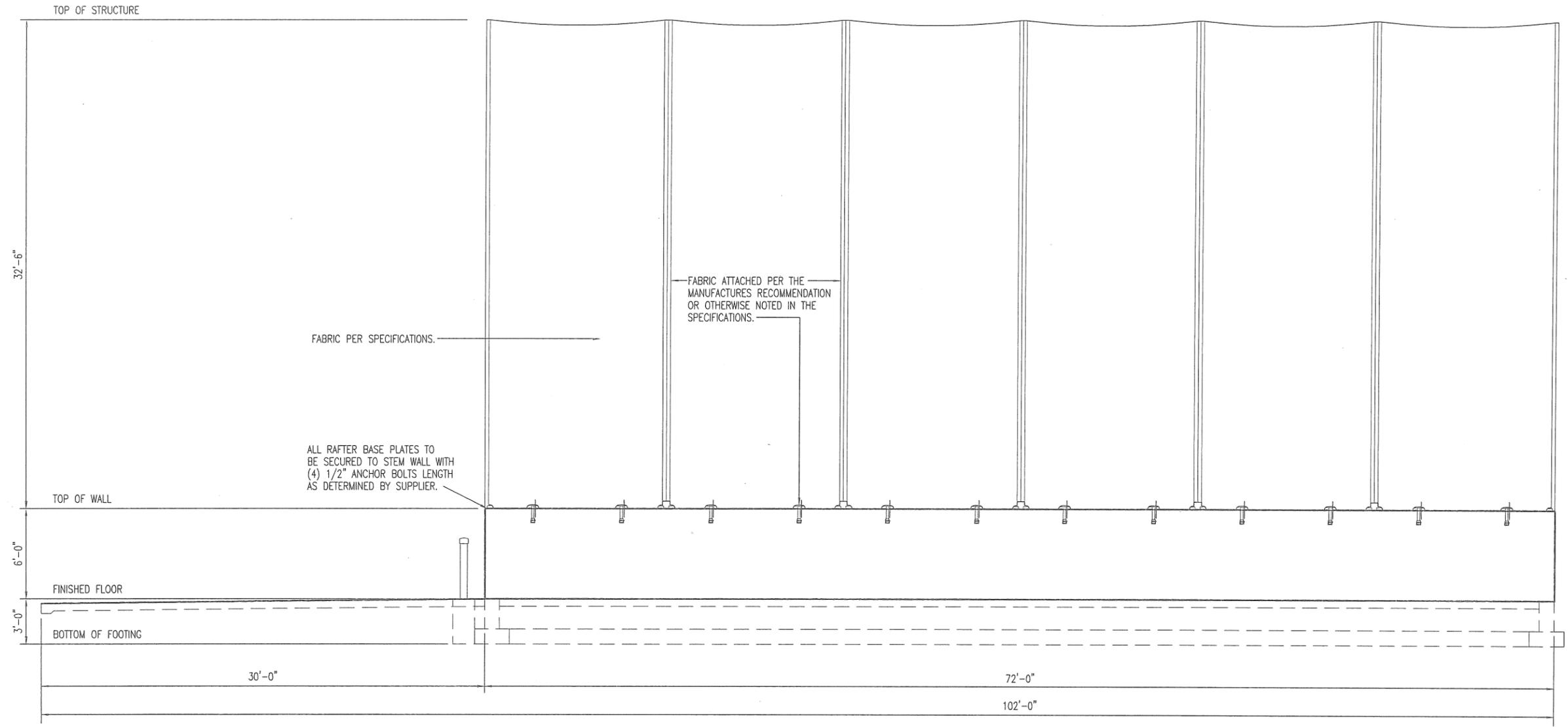
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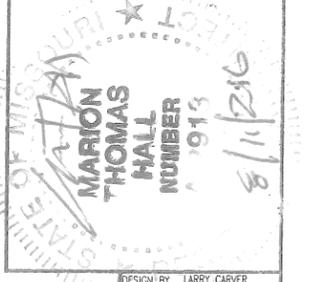
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EAST ELEVATION

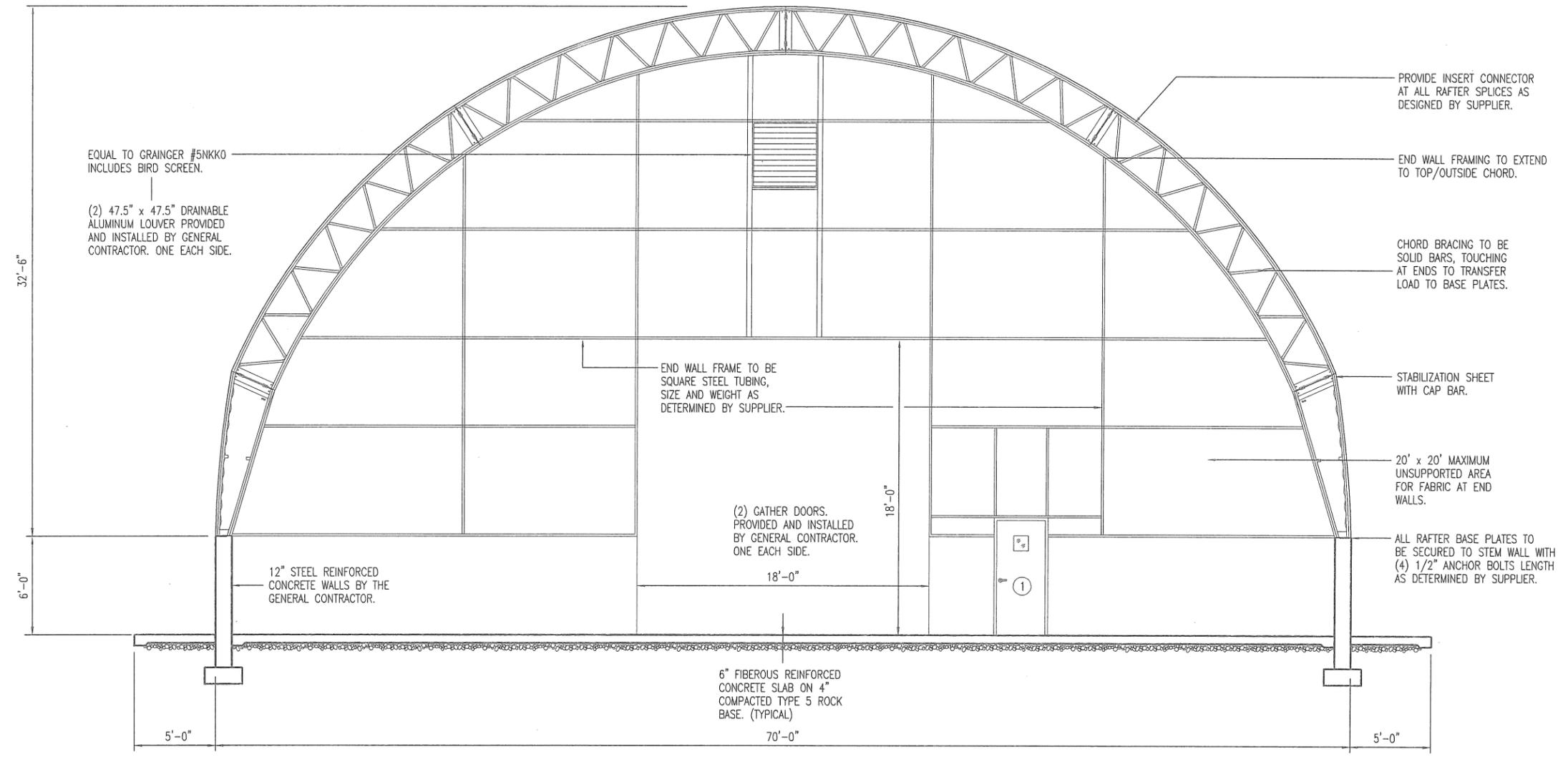
Sheet 6 of 8



A EAST ELEVATION
6 SCALE: 1/8" = 1'-0"



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DATE 7-22-16



A SECTION
7 SCALE: 1/8" = 1'-0"

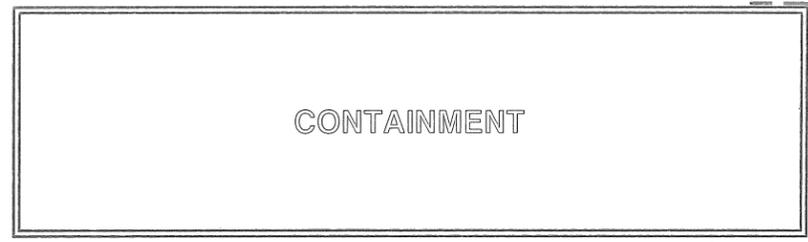
LINN FABRIC
SALT STRUCTURE
Linn, MO - Osage County

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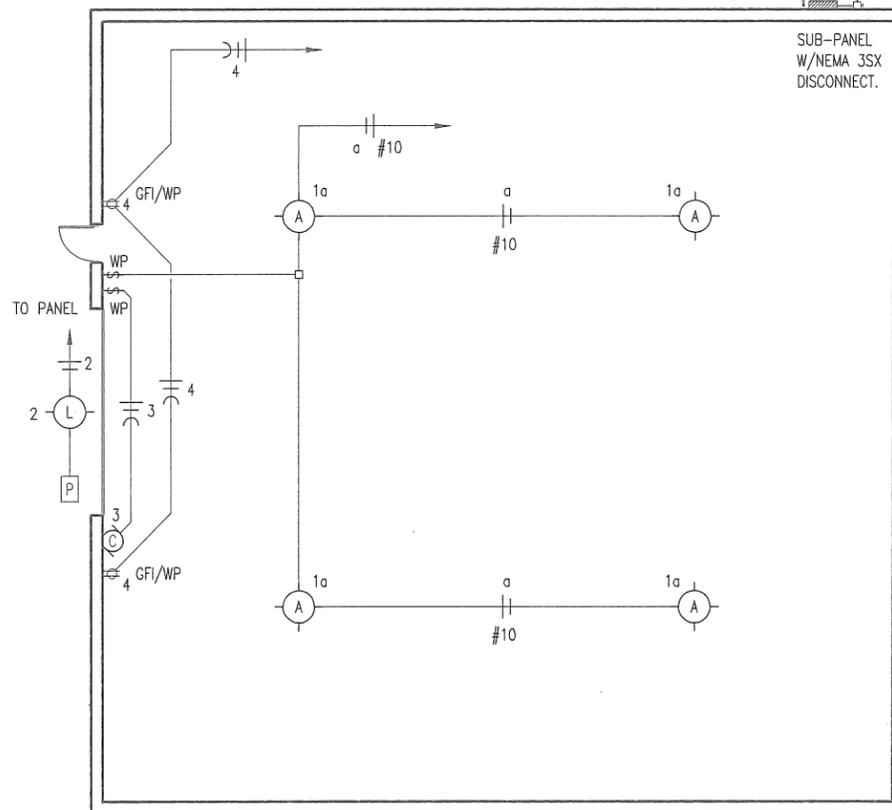
SECTION

LEGEND

- Ⓢ WP 1-POLE SWITCH MOUNTED IN FS BOX W/ HUBBELL HBL 7420 COVER.
- Ⓢ GFI DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER
- Ⓢ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
- #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED
- #12 COPPER PHASE CONDUCTORS UNLESS NOTED
- 1/2" EMT UNLESS NOTED
- #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED



CONTRACTOR TO PROVIDE 2" CONDUIT WITH SWEEPS FOR FUTURE ELECTRICAL TO BRINE MOTOR. CAP ENDS @ 36" ABOVE GRADE. PROVIDE PULL-WIRE.



SEE SITE PLAN.

A
8
ELECTRICAL PLAN
 SCALE: 1/16" = 1'-0"

NORTH

ELECTRIC SCHEDULE

MANUF.	MODEL	#	LAMPS TYPE	W	MNT	REMARKS
LITHONIA Ⓢ A	JHBL-18000LM-GL-WD-MVOLT-GZ10-40K-70CRI		LED	185	CLG	LED IP RATED HIGH BAY, CONSTRUCTED TO WITHSTAND MOISTURE DUST AND CHEMICAL CONTACT.
Ⓢ C	NORTHERN INDUSTRIAL TOOLS ITEM# 14230-2503				WALL	1100 LB. ELECTRIC HOIST 550 LB. CAPACITY ON SINGLE LINE 1100 LB. CAPACITY ON DOUBLE LINE
TORK Ⓢ P	2001				WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
COOPER Ⓢ L	XTOR9ARL-N		LED	82	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. PRISMATIC GLASS LENS.

ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.

SUB-PANEL

MAIN BUS: 100A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE		SQUARE "D" NQOD OR EQUAL FED FROM 100A BREAKER IN SALT FABRIC STRUCTURE.		CONNECTED LOAD	
CIR	SERVICE	VA	BKR	VA	SERVICE
1	LIGHTS	740	20A1P A	82	LIGHTS
3	OHD OPENER	580	20A1P B	360	RECEPTACLES
5	SPACE ONLY		A		SPACE ONLY
7	SPACE ONLY		B		SPACE ONLY
9	SPACE ONLY		A		SPACE ONLY
11	SPACE ONLY		B		SPACE ONLY
				TOTAL 1762 VA 7 A	

● CIRCUIT BREAKER SHALL BE GFI RATED

ELECTRICAL NOTES

- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
- ALL WIRING INSIDE STRUCTURE SHALL BE TYPE THHN SOLID COPPER, IN SCHEDULE 40 HEAVY WALL PVC CONDUIT. PROVIDE ADEQUATE SUPPORT FOR PVC CONDUIT. ALL SYSTEMS TO BE DUST TIGHT.
- SWITCHES AND RECEPTACLES TO BE IN WEATHERPROOF BOXES.
- MOUNT RECEPTACLES AT 48" A.F.F.
- PROVIDE CONDUIT, CONDUCTORS, BOXES, CONNECTORS, ETC. FROM SUB-PANEL TO 100A BREAKER IN PANEL BOARD IN THE CONCRETE BLOCK TRUCK WASH FOR A FUNCTIONAL SYSTEM.



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LINN FABRIC
SALT STRUCTURE
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ELECTRICAL PLAN