

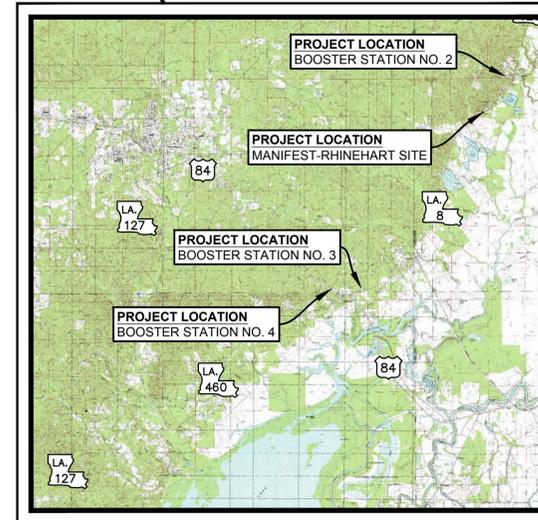
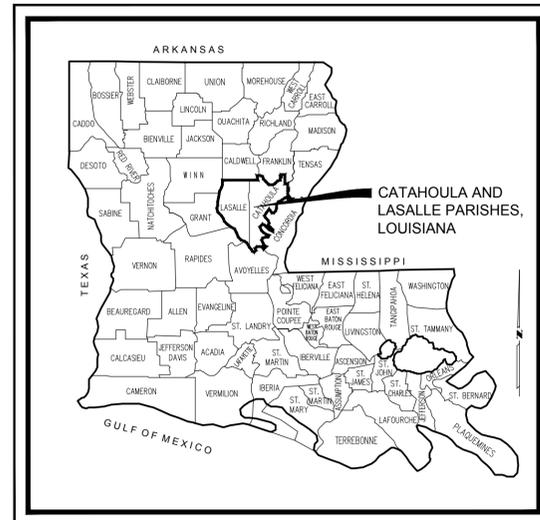
NEBO WATER SYSTEM, INC. LASALLE PARISH, LOUISIANA CONTRACT DRAWINGS FOR THE CONSTRUCTION OF THE CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.

CONTRACT NO. 4

MANIFEST-RHINEHART WATER WELL SITE IMPROVEMENTS &
BOOSTER STATIONS 2, 3, AND 4 IMPROVEMENTS



LOUISIANA WATER SECTOR PROGRAM (PROJECT NO. LAWSP 10901)



P.A.E. REVIEW		
	PROJECT ENGINEER	DATE
ORIGINAL DRAWINGS	<i>Brendan E. Dege</i>	10/10/2025
RECORD DRAWINGS		

PROJECT CLASSIFICATION PER L.R.S. 37:2163.C
MUNICIPAL AND PUBLIC WORKS CONSTRUCTION

VICINITY MAP OCTOBER 2025 LOCATION MAP

Thomas C. David, Jr. 10/10/2025
THOMAS C. DAVID, JR. - PAN AMERICAN ENGINEERS, LLC

TITLE SHEET



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DATE 10/2025

REVISION	DATE
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BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
SCALE SHOWN

OWNER NEBO WATER SYSTEM, INC.
PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
CONTRACT 4

SHEET NUMBER
1
OF 59

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THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



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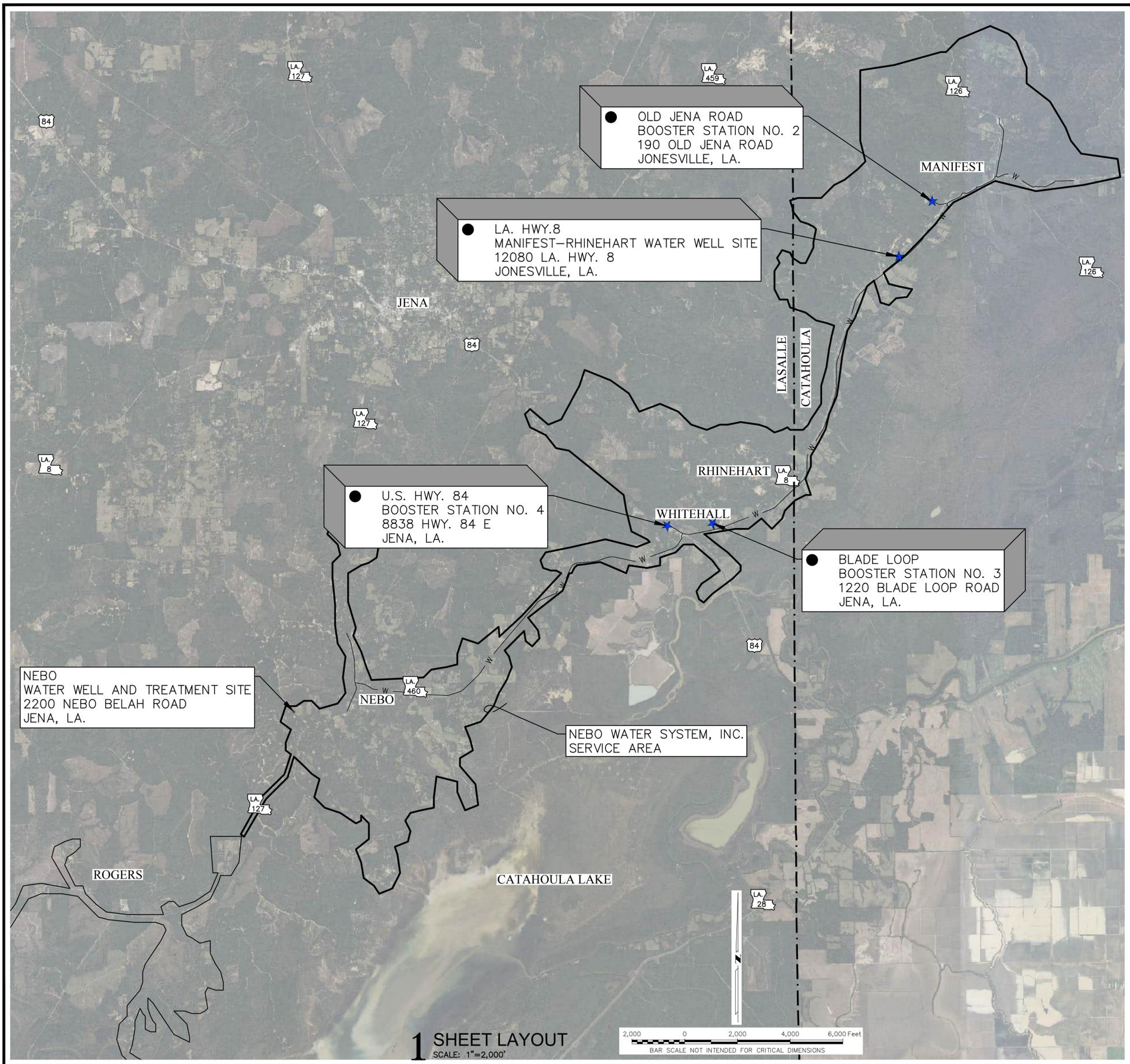
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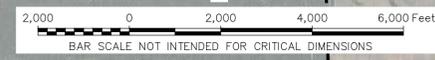
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 SCALE: SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
2
 OF 59



1 SHEET LAYOUT
 SCALE: 1"=2,000'



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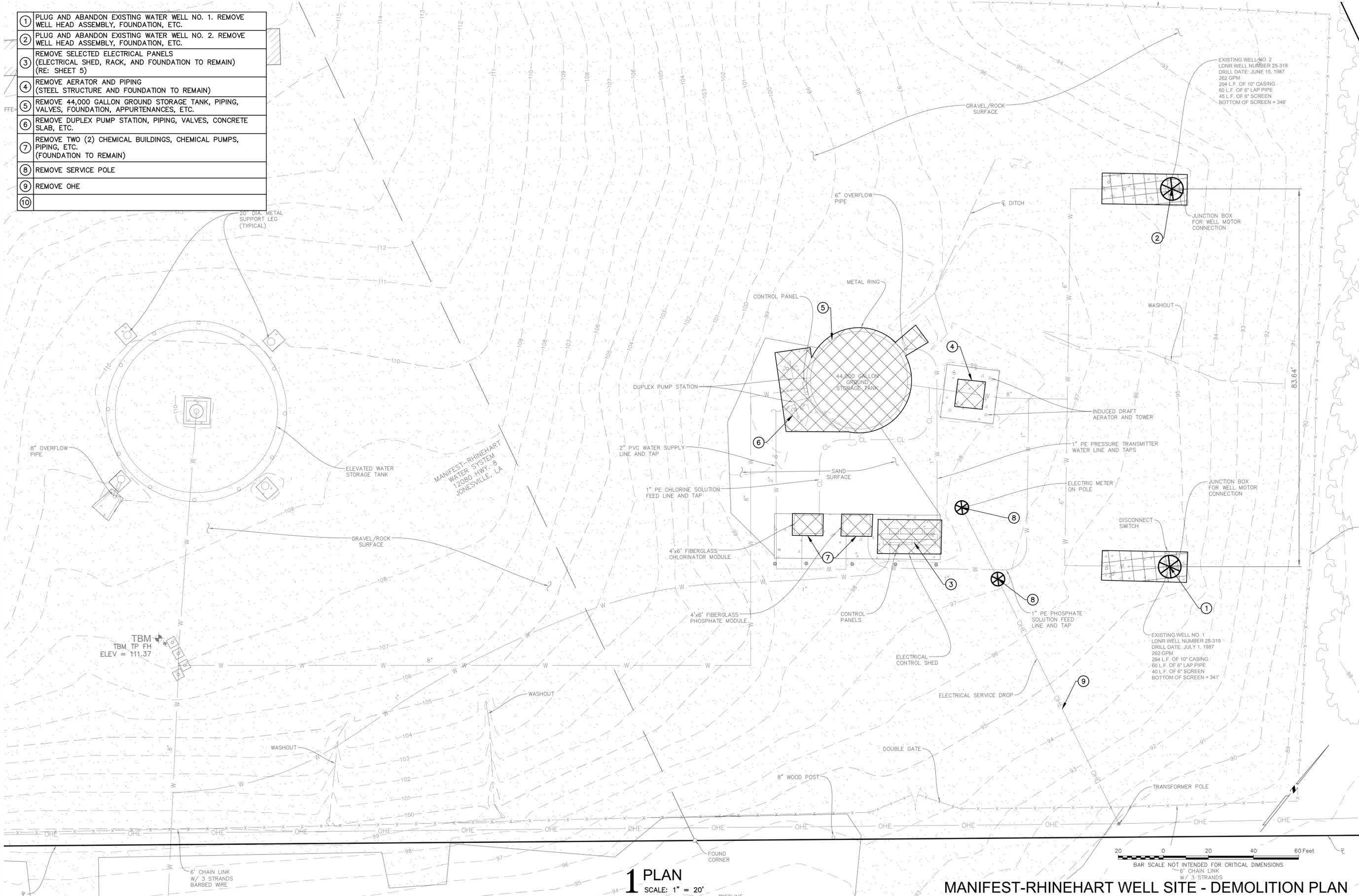
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- 1 PLUG AND ABANDON EXISTING WATER WELL NO. 1. REMOVE WELL HEAD ASSEMBLY, FOUNDATION, ETC.
- 2 PLUG AND ABANDON EXISTING WATER WELL NO. 2. REMOVE WELL HEAD ASSEMBLY, FOUNDATION, ETC.
- 3 REMOVE SELECTED ELECTRICAL PANELS (ELECTRICAL SHED, RACK, AND FOUNDATION TO REMAIN) (RE: SHEET 5)
- 4 REMOVE AERATOR AND PIPING (STEEL STRUCTURE AND FOUNDATION TO REMAIN)
- 5 REMOVE 44,000 GALLON GROUND STORAGE TANK, PIPING, VALVES, FOUNDATION, APPURTENANCES, ETC.
- 6 REMOVE DUPLEX PUMP STATION, PIPING, VALVES, CONCRETE SLAB, ETC.
- 7 REMOVE TWO (2) CHEMICAL BUILDINGS, CHEMICAL PUMPS, PIPING, ETC. (FOUNDATION TO REMAIN)
- 8 REMOVE SERVICE POLE
- 9 REMOVE OHE
- 10



1 PLAN
 SCALE: 1" = 20'

MANIFEST-RHINEHART WELL SITE - DEMOLITION PLAN

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SOUTHEAST SIDE OF ELECTRICAL RACK (FRONT)
 ELECTRICAL DEMOLITION



NORTHWEST SIDE OF ELECTRICAL RACK (REAR)
 ELECTRICAL DEMOLITION

MANIFEST-RHINEHART WELL SITE - ELECTRICAL DEMOLITION DETAILS



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 CONTRACT 4

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2 WORK KEY

1	PROPOSED WATER WELL No. 3 (RE: SHEETS 10-12)
2	PROPOSED WATER WELL No. 4 (RE: SHEETS 10-12)
3	ELECTRICAL CONTROL SHED (RE: SHEET 19)
4	44,000 GALLON GROUND STORAGE TANK (RE: SHEET 14)
5	RIPRAP (RE: 1/49)
6	CONNECT TO EXISTING 8" D.I.M.J. BASE BEND (RE: 5/15)
7	AERATOR AND PIPING (RE: SHEET 15)
8	GENERATOR AND PAD (RE: SHEET 18)
9	8" D.I.M.J. 90° BEND
10	DUPLEX PUMP STATION (RE: SHEET 13)
11	LEFT BLANK INTENTIONALLY
12	CHLORINE FEED LINE TO AERATOR DISCHARGE LINE
13	PHOSPHATE FEED LINE TO WELL DISCHARGE LINE UPSTREAM OF AERATOR
14	8" D.I.M.J. TEE
15	6" FOSTER ADAPTOR
16	6" D.I. PIPE
17	6" D.I.M.J. 90° BEND
18	CONNECT TO EXISTING 8" WATER MAIN WITH CUTTING-IN SLEEVE
19	NEW SERVICE POLE WITH METER AND DISCONNECT SWITCH
20	1" P.E. CHLORINE SOLUTION FEED LINE & TAP. (RE: 1/16 & 2/16)
21	1" P.E. PHOSPHATE SOLUTION FEED LINE & TAP. (RE: 2/17 & 3/17)
22	4'x6' FIBERGLASS CHLORINATOR MODULE (RE: SHEET 16)
23	4'x6' FIBERGLASS PHOSPHATE MODULE (RE: SHEET 17)
24	1" P.E. PRESSURE TRANSMITTER WATER LINE AND TAPS. (RE: 8/48)
25	NEW TRANSFORMER POLE. CONTRACTOR TO COORDINATE WITH CONCORDIA ELECTRIC AND PAY ALL COSTS RELATED THERETO
26	NEW UGE FROM NEW SERVICE POLE TO AUTOMATIC TRANSFER SWITCH
27	8" D.I. PIPE
28	8" D.I.M.J. 90° BEND
29	6"x8" D.I.M.J. REDUCER

3 GENERAL NOTES

- THE LIST OF ITEMS SHOWN UNDER GENERAL SCOPE OF WORK IS NOT INTENDED TO BE A CHRONOLOGICAL SCHEDULE OR A COMPREHENSIVE LIST OF REQUIRED WORK ITEMS.
- WATER USED FOR WELL DRILLING AND DEVELOPMENT SHALL BE POTABLE OR PROPERLY CHLORINATED TO PREVENT GROUND WATER CONTAMINATION.
- NEBO WATER SYSTEM SHALL DONATE ALL POTABLE WATER. WATER SHALL BE AVAILABLE FROM EXISTING GROUND STORAGE TANKS.
- IF THE DRILLED PILOT HOLE IS DEEPER THAN THE INTERVAL TO BE SCREENED, A CEMENT-BENTONITE SLURRY PLUG SHALL BE PLACED IN THE OPEN HOLE. THE PLUG SHALL EXTEND FROM THE BOTTOM OF THE PILOT HOLE UPWARD TO A DEPTH WITHIN TWENTY FEET (20') OF THE BOTTOM OF THE PROPOSED SCREEN SETTING OR TO THE TOP CLAY OR SHALE LAYER UNDERLYING THE SAND TO BE SCREENED.

WELL LOCATION NOTES:

- AS OF THE DATE OF THESE DRAWINGS, THERE ARE NO OXIDATION PONDS, SEWER FIELD LINES, MECHANICAL SEWAGE TREATMENT PLANTS, LANDFILLS, FEED LOTS, MANURE PILES, SOLID WASTE DUMP SITES OR UNDERGROUND STORAGE TANKS WITHIN 100 FEET OF THE PROPOSED WELL.
- AS OF THE DATE OF THESE DRAWINGS, THERE ARE NO SEPTIC TANKS, SEWER LINES, DRAINAGE CANALS, ROAD DITCHES, STREAMS OR BAYOUS WITHIN 50 FEET OF THE PROPOSED WELL.
- THIS SITE IS LOCATED IN FEMA FIRM ZONE X "AREA OF MINIMAL FLOOD HAZARD."

4 GENERAL SCOPE OF WORK

- CLEAR, GRUB, AND GRADE SITE TO THE LIMITS SHOWN ON THE DRAWING.
- GRADE & FILL THE SITE AS SHOWN. REMOVE TOPSOIL WITHIN LIMITS OF PROPOSED BASE AND STONE WITHIN SITE. STOCKPILE TOPSOIL AS REQUIRED FOR FINAL SOIL STABILIZATION.
- CONSTRUCT WATER PRODUCTION WELLS WITH WELL HEAD ASSEMBLIES, RAW WATER PIPING, ETC.
- DISINFECT THE WATER PRODUCTION WELLS & PIPING.
- INSTALL ELECTRICAL CONTROL SHED AND PAD, GENERATOR AND PAD, AUTOMATIC TRANSFER SWITCH, METER, DISCONNECT, PANELS, VFD, CONDUIT, WIRING, ETC.
- ALL CONTENTS OF MUD PIT INCLUDING PUMPED SAND, CLAY, DRILLING FLUIDS, WATER, ETC. SHALL BE REMOVED FROM THE PIT BEFORE BACKFILLING. PIT SHALL BE BACKFILLED WITH THE EXCAVATED MATERIAL IN LAYERS NOT EXCEEDING TWELVE (12") INCHES AND MECHANICALLY COMPACTED TO 95% STANDARD PROCTER DENSITY. SHOULD ANY ADDITIONAL MATERIAL BE REQUIRED TO COMPLETE BACKFILL OF THE MUD PIT, THAT MATERIAL SHALL BE APPROVED BY ENGINEER BEFORE INSTALLATION.
- FILLING & GRADING WORK SHALL RESULT IN POSITIVE DRAINAGE AND IN A SURFACE FINISH SUITABLE FOR MOWING.
- CONTRACTOR TO SEED AND FERTILIZE ALL DISTURBED AREAS.
- FINAL SURFACE SHALL BE GRADED SMOOTH WITHOUT RUTTING & WITHOUT AREAS OF PONDING & GRADED FOR POSITIVE DRAINAGE AWAY FROM THE WELL HEAD FOUNDATION.
- RIPRAP SHALL BE PLACED SUCH THAT THE FINISHED ELEVATION IS FLUSH WITH THE TOP OF THE ADJACENT SURFACE. RIPRAP SHALL BE PLACED ON A PREPARED SUBGRADE OVER A SINGLE LAYER OF GEOTEXTILE FABRIC FILTER CLOTH. ENDS OF FILTER CLOTH SHALL EXTEND 12" PAST THE EDGE OF THE RIPRAP. LAPS IN THE FILTER CLOTH SHALL BE PINNED @ 6" O.C.
- RIPRAP SHALL HAVE A VARYING WIDTH OF THREE (3') FEET AT THE WELL PAD AND TEN (10') FEET AT THE DISCHARGE END.
- EMBANKMENT SHALL BE PLACED ON A PREPARED SUBGRADE THAT HAS BEEN COMPACTED AND ROLLED TO LOCATE & REMOVE SOFT SPOTS. AREAS SHALL BE PREPARED AND SAND, CLAY, GRAVEL SHALL BE PLACED, COMPACTED & GRADED PER SPECIFICATION SECTION 02240.



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DATE 10/2025

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JOB NO. 12641-4

DWG. NO. 14645

SCALE SHOWN

OWNER NEBO WATER SYSTEM, INC.

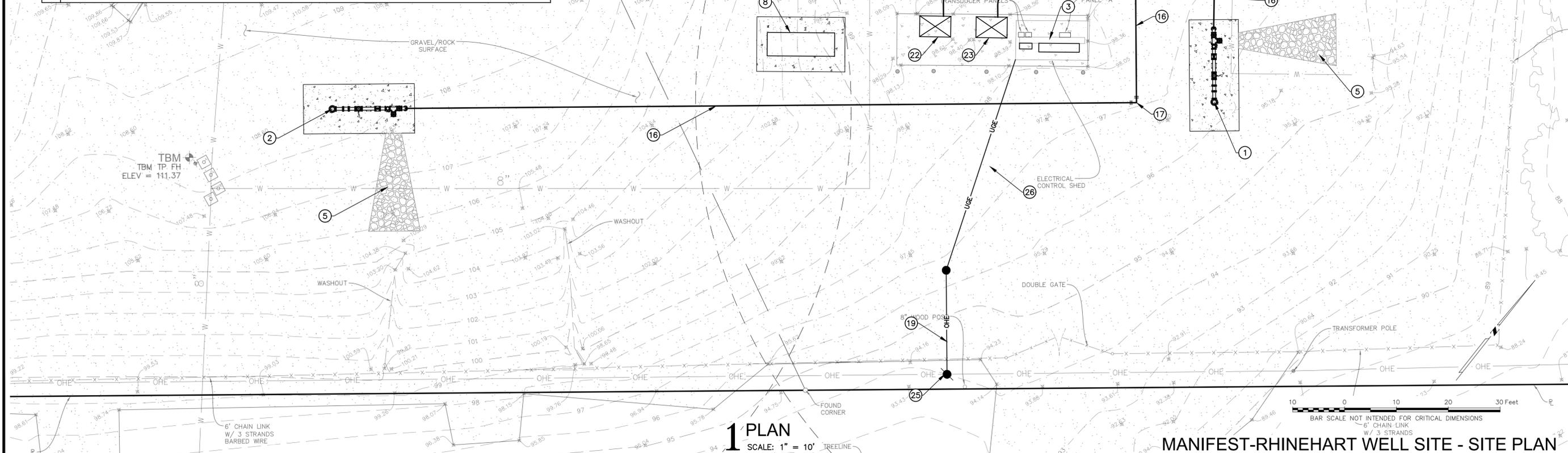
PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC. CONTRACT 4

SHEET NUMBER

6 OF 59

1 PLAN

SCALE: 1" = 10' TIE LINE



MANIFEST-RHINEHART WELL SITE - SITE PLAN

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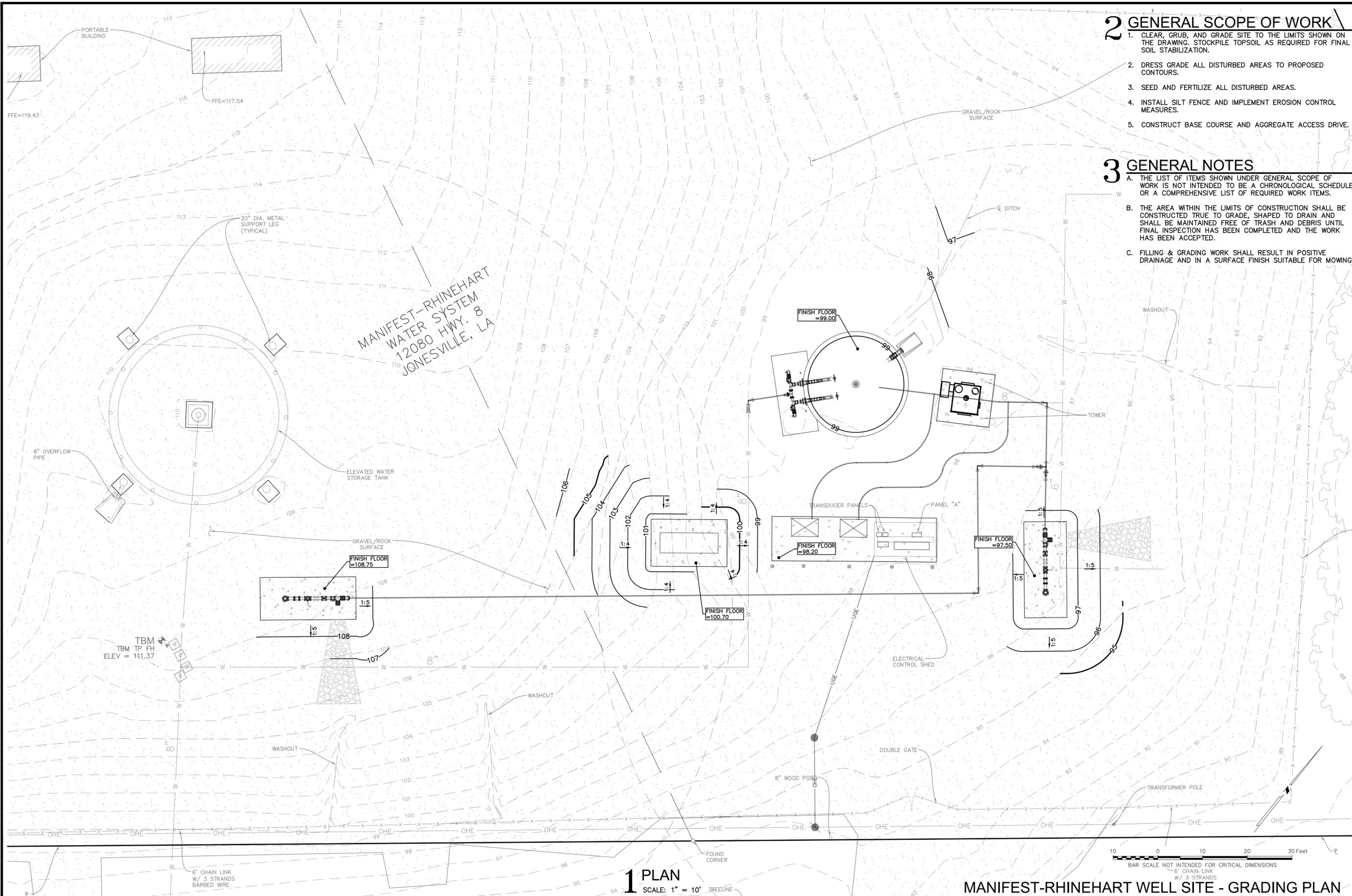
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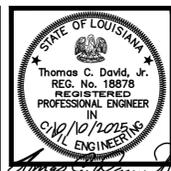
1 PLAN
 SCALE: 1" = 10' TIE LINE

2 GENERAL SCOPE OF WORK

1. CLEAR, GRUB, AND GRADE SITE TO THE LIMITS SHOWN ON THE DRAWING. STOCKPILE TOPSOIL AS REQUIRED FOR FINAL SOIL STABILIZATION.
2. DRESS GRADE ALL DISTURBED AREAS TO PROPOSED CONTOURS.
3. SEED AND FERTILIZE ALL DISTURBED AREAS.
4. INSTALL SILT FENCE AND IMPLEMENT EROSION CONTROL MEASURES.
5. CONSTRUCT BASE COURSE AND AGGREGATE ACCESS DRIVE.

3 GENERAL NOTES

- A. THE LIST OF ITEMS SHOWN UNDER GENERAL SCOPE OF WORK IS NOT INTENDED TO BE A CHRONOLOGICAL SCHEDULE OR A COMPREHENSIVE LIST OF REQUIRED WORK ITEMS.
- B. THE AREA WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CONSTRUCTED TRUE TO GRADE, SHAPED TO DRAIN AND SHALL BE MAINTAINED FREE OF TRASH AND DEBRIS UNTIL FINAL INSPECTION HAS BEEN COMPLETED AND THE WORK HAS BEEN ACCEPTED.
- C. FILLING & GRADING WORK SHALL RESULT IN POSITIVE DRAINAGE AND IN A SURFACE FINISH SUITABLE FOR MOWING.



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 DATE: 10/2025

REVISION	DATE
CHECKED	T.C.D
BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
7
 OF 59

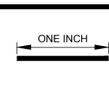
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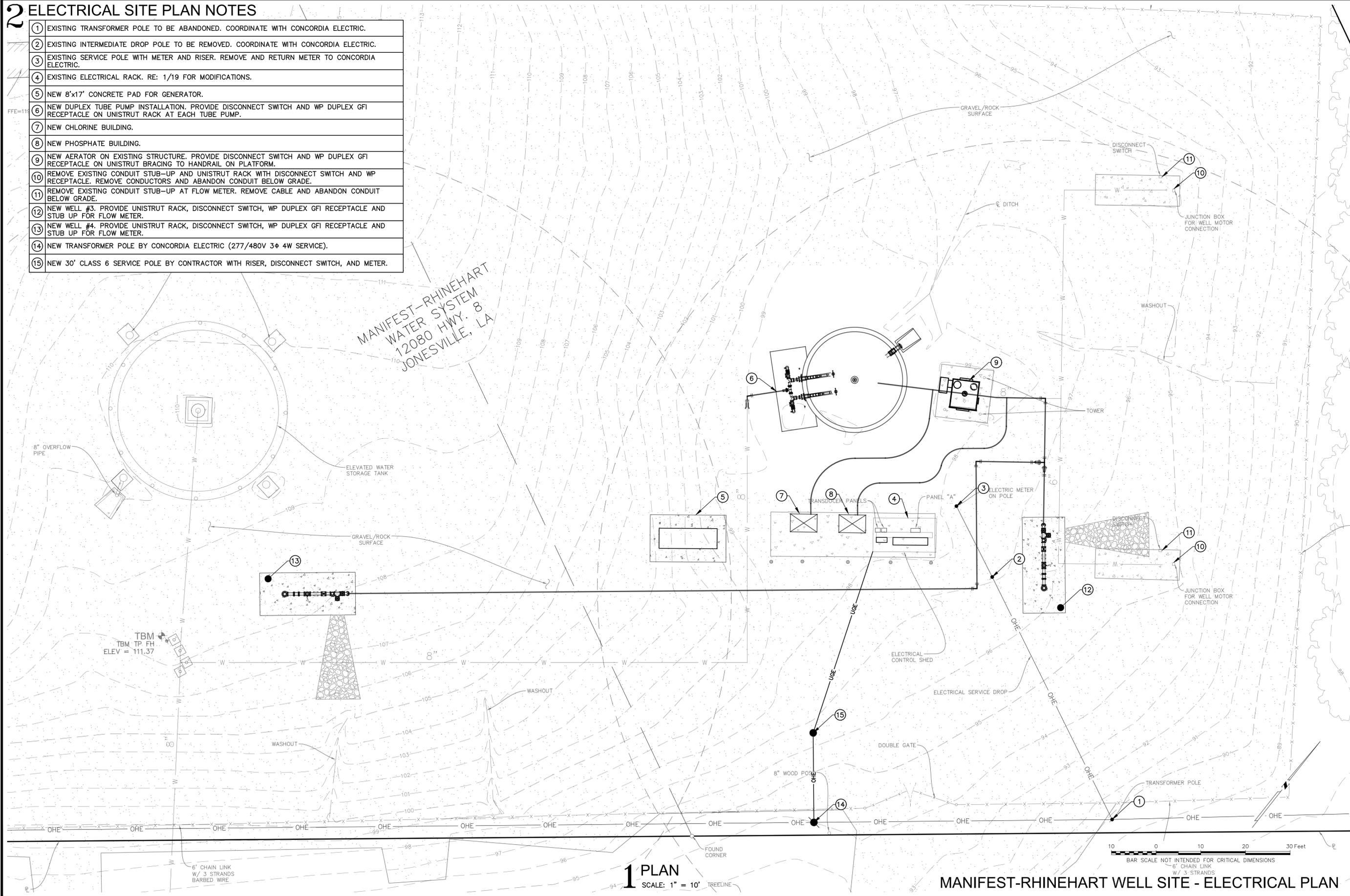


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2 ELECTRICAL SITE PLAN NOTES

- 1 EXISTING TRANSFORMER POLE TO BE ABANDONED. COORDINATE WITH CONCORDIA ELECTRIC.
- 2 EXISTING INTERMEDIATE DROP POLE TO BE REMOVED. COORDINATE WITH CONCORDIA ELECTRIC.
- 3 EXISTING SERVICE POLE WITH METER AND RISER. REMOVE AND RETURN METER TO CONCORDIA ELECTRIC.
- 4 EXISTING ELECTRICAL RACK. RE: 1/19 FOR MODIFICATIONS.
- 5 NEW 8'x17' CONCRETE PAD FOR GENERATOR.
- 6 NEW DUPLEX TUBE PUMP INSTALLATION. PROVIDE DISCONNECT SWITCH AND WP DUPLEX GFI RECEPTACLE ON UNISTRUT RACK AT EACH TUBE PUMP.
- 7 NEW CHLORINE BUILDING.
- 8 NEW PHOSPHATE BUILDING.
- 9 NEW AERATOR ON EXISTING STRUCTURE. PROVIDE DISCONNECT SWITCH AND WP DUPLEX GFI RECEPTACLE ON UNISTRUT BRACING TO HANDRAIL ON PLATFORM.
- 10 REMOVE EXISTING CONDUIT STUB-UP AND UNISTRUT RACK WITH DISCONNECT SWITCH AND WP RECEPTACLE. REMOVE CONDUCTORS AND ABANDON CONDUIT BELOW GRADE.
- 11 REMOVE EXISTING CONDUIT STUB-UP AT FLOW METER. REMOVE CABLE AND ABANDON CONDUIT BELOW GRADE.
- 12 NEW WELL #3. PROVIDE UNISTRUT RACK, DISCONNECT SWITCH, WP DUPLEX GFI RECEPTACLE AND STUB UP FOR FLOW METER.
- 13 NEW WELL #4. PROVIDE UNISTRUT RACK, DISCONNECT SWITCH, WP DUPLEX GFI RECEPTACLE AND STUB UP FOR FLOW METER.
- 14 NEW TRANSFORMER POLE BY CONCORDIA ELECTRIC (277/480V 3Φ 4W SERVICE).
- 15 NEW 30' CLASS 6 SERVICE POLE BY CONTRACTOR WITH RISER, DISCONNECT SWITCH, AND METER.

MANIFEST-RHINEHART
WATER SYSTEM
12080 HWY. 8
JONESVILLE, LA



1 PLAN
SCALE: 1" = 10' TREELINE

MANIFEST-RHINEHART WELL SITE - ELECTRICAL PLAN



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DWG. NO. 14645
SCALE SHOWN

OWNER NEBO WATER SYSTEM, INC.
PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
CONTRACT 4

SHEET NUMBER
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OF 59

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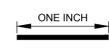
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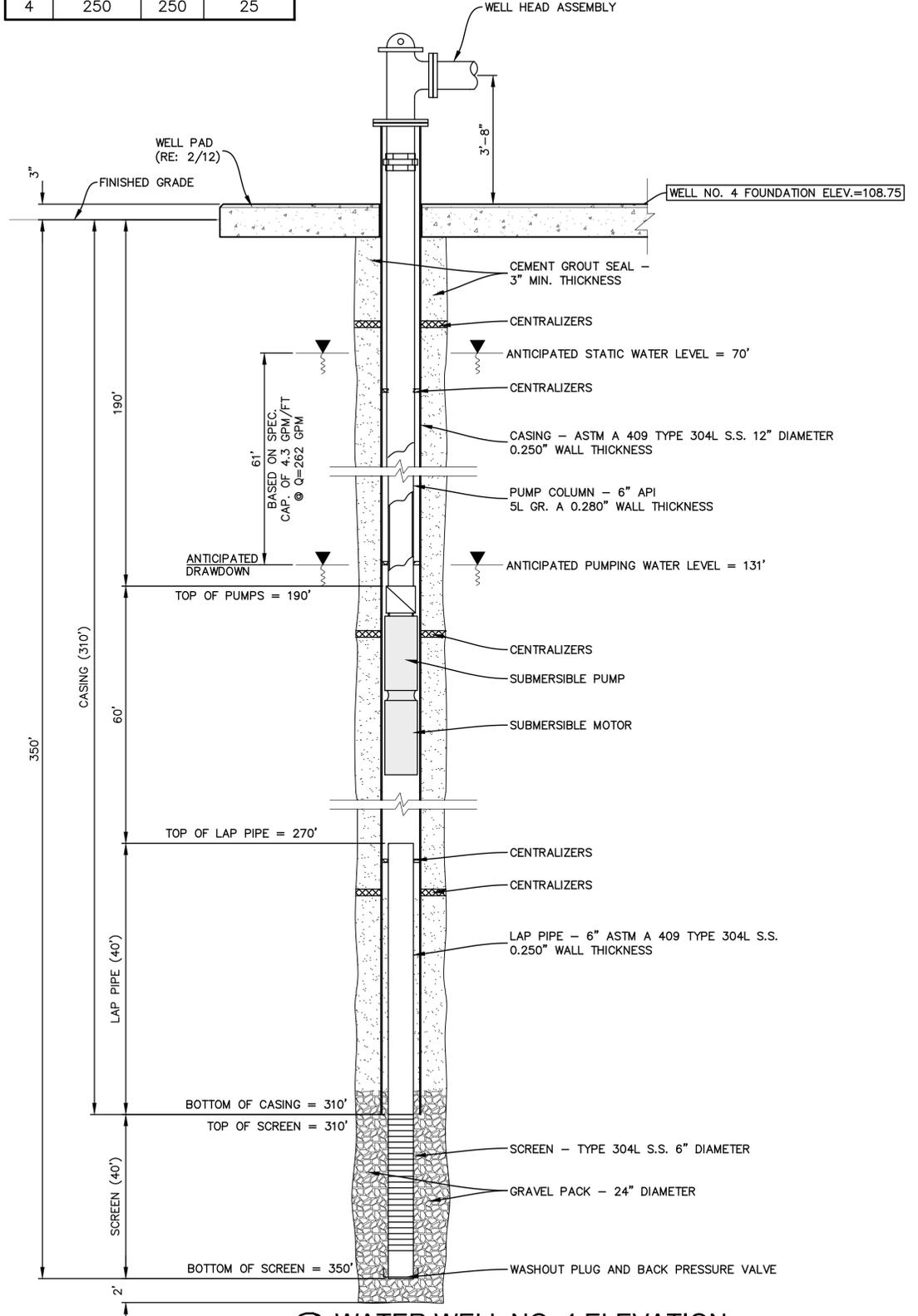
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 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

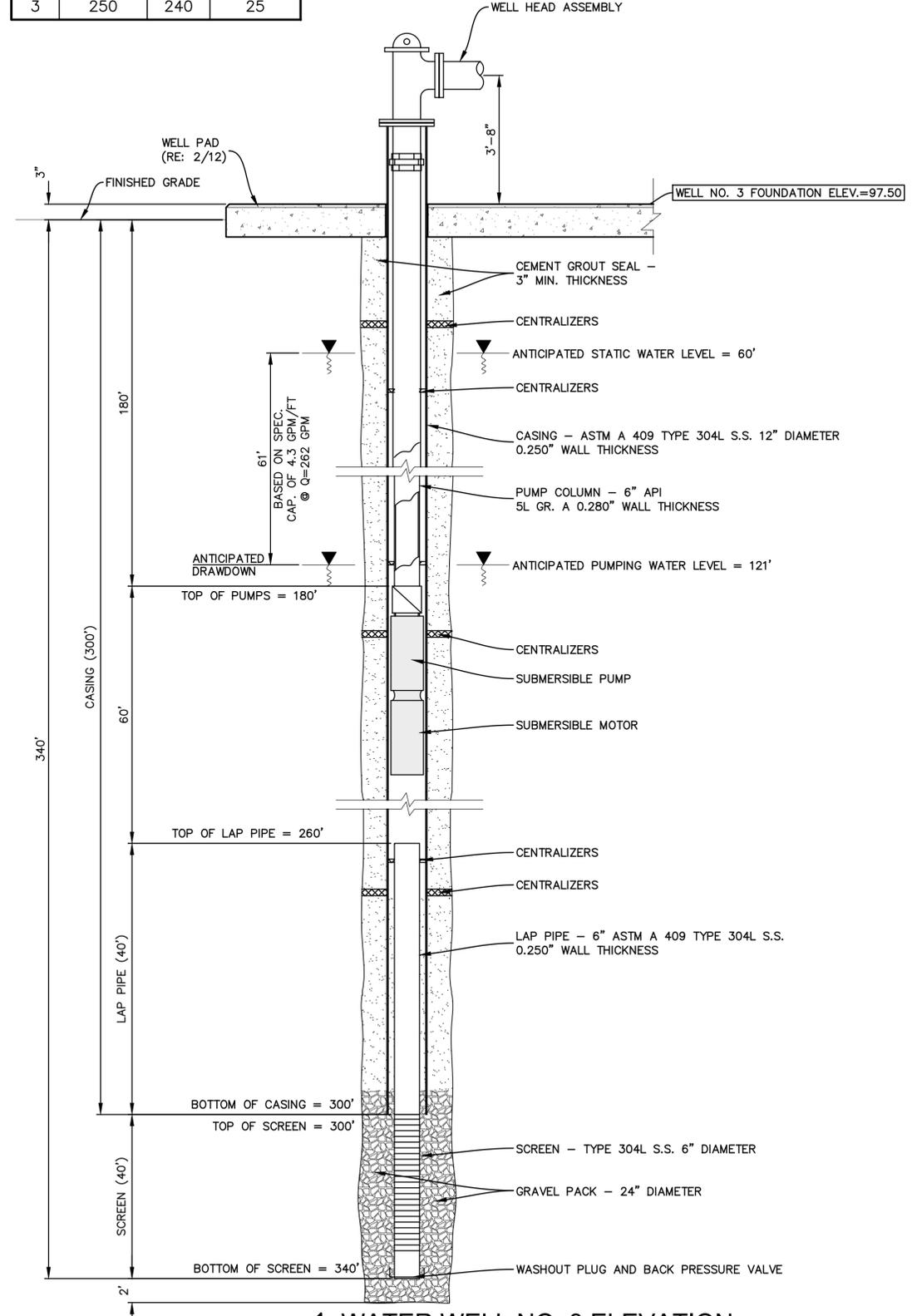
SHEET NUMBER
11
 OF 59

PUMP DATA TABLE			
WELL NO.	CAPACITY (GPM)	TDH (FEET)	MOTOR HP
4	250	250	25



2 WATER WELL NO. 4 ELEVATION
 N.T.S.

PUMP DATA TABLE			
WELL NO.	CAPACITY (GPM)	TDH (FEET)	MOTOR HP
3	250	240	25



1 WATER WELL NO. 3 ELEVATION
 N.T.S.

WATER WELL ELEVATIONS

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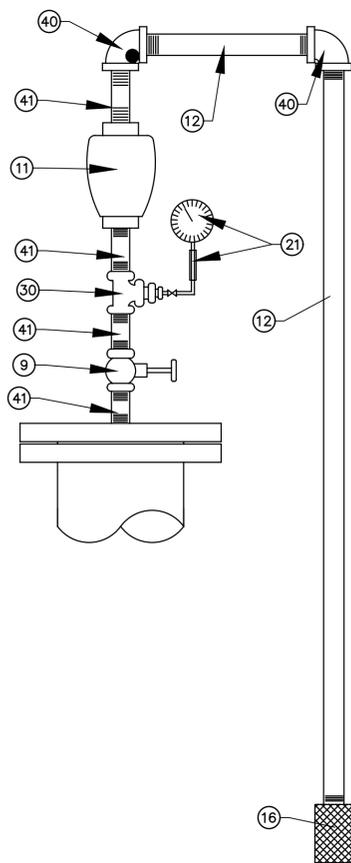
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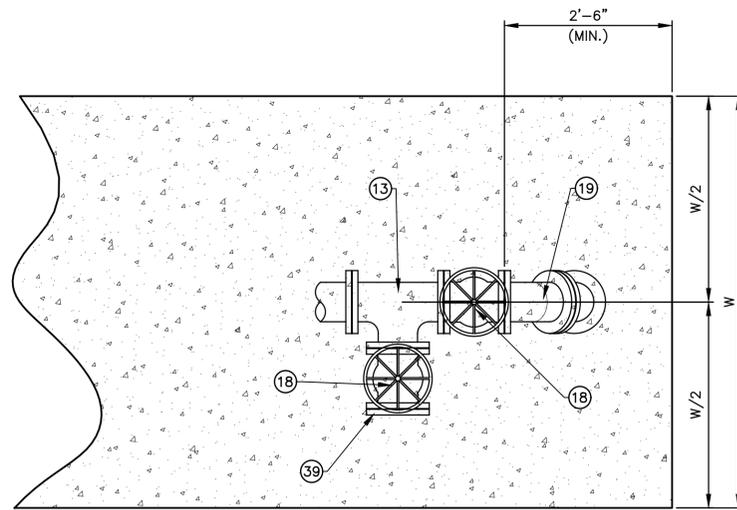
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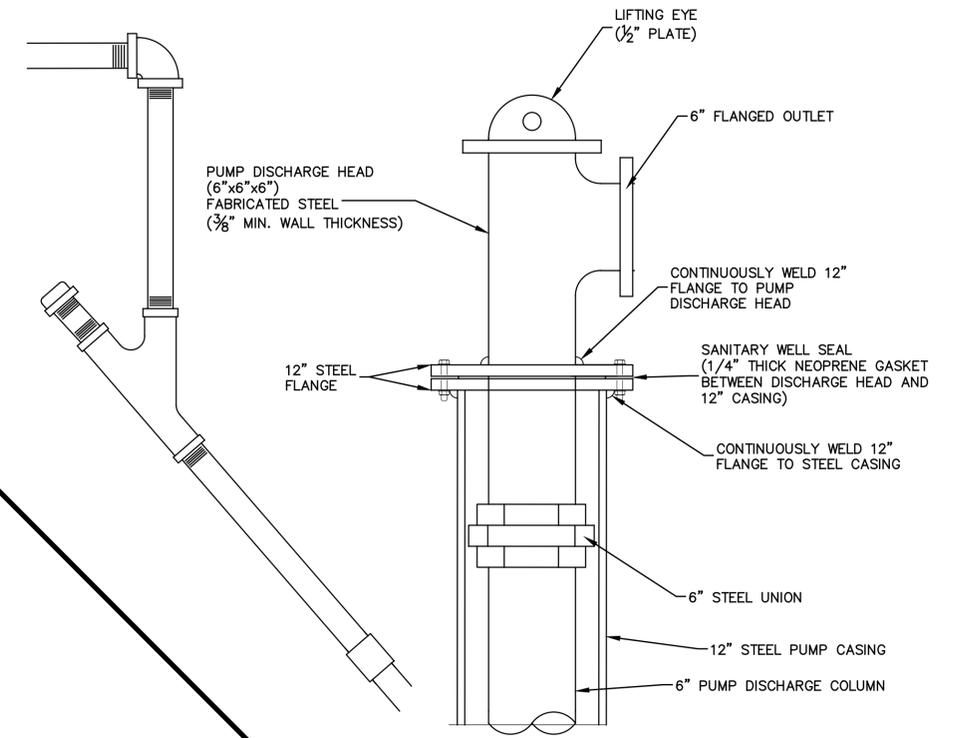


NO	SIZE	DESCRIPTION
9	2"	BRASS GATE VALVE (WATTS REG. MODEL WGV)
11	2"	AIR/VACUUM VALVE (G.A. FIG. 930/2" OUTLET)
12	2"	BRASS DRAIN PIPING (LENGTH AS REQ'D)
21	2 1/2"	2 1/2" STAINLESS STEEL LIQUID FILLED (WKA 113.14) PRESSURE GAUGE, 1/4" ISOLATION VALVE & PRESSURE SNUBBER (RAY MODEL 010B)
30	2"	BRASS TEE W/BRASS BUSHINGS TO 1/4"
40	2"	BRASS 90° BEND
41	2"	BRASS NIPPLE (2" LONG)

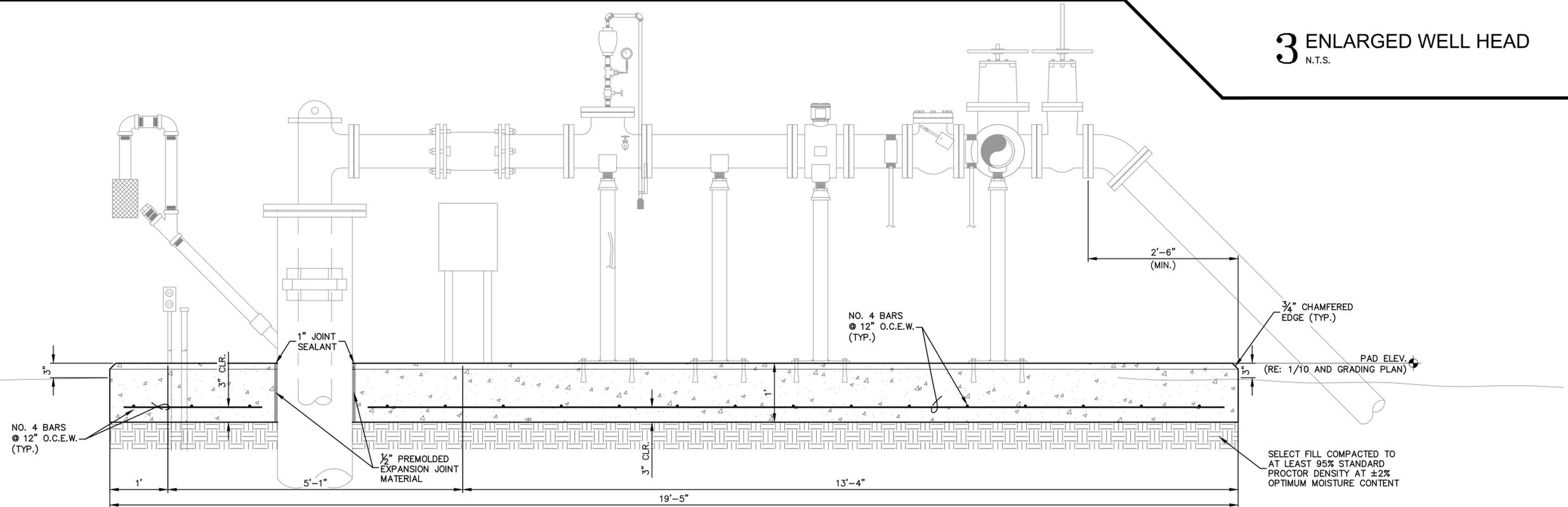
4 AIR RELEASE VALVE ASSEMBLY
N.T.S.



2 PARTIAL PLAN
N.T.S.



3 ENLARGED WELL HEAD
N.T.S.



1 WELL HEAD FOUNDATION
N.T.S.

WELL HEAD FOUNDATION DETAILS

- NOTES:**
1. WELL HEAD FOUNDATION SHALL BE CLASS A CONCRETE (3800 PSI COMPRESSIVE STRENGTH @ 28 DAYS).
 2. ALL EXPOSED CONCRETE EDGES TO HAVE 3/4" CHAMFER.
 3. ALL FLANGE DIMENSIONS TO BE IN ACCORDANCE WITH AWWA C115



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OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
12
 OF 59

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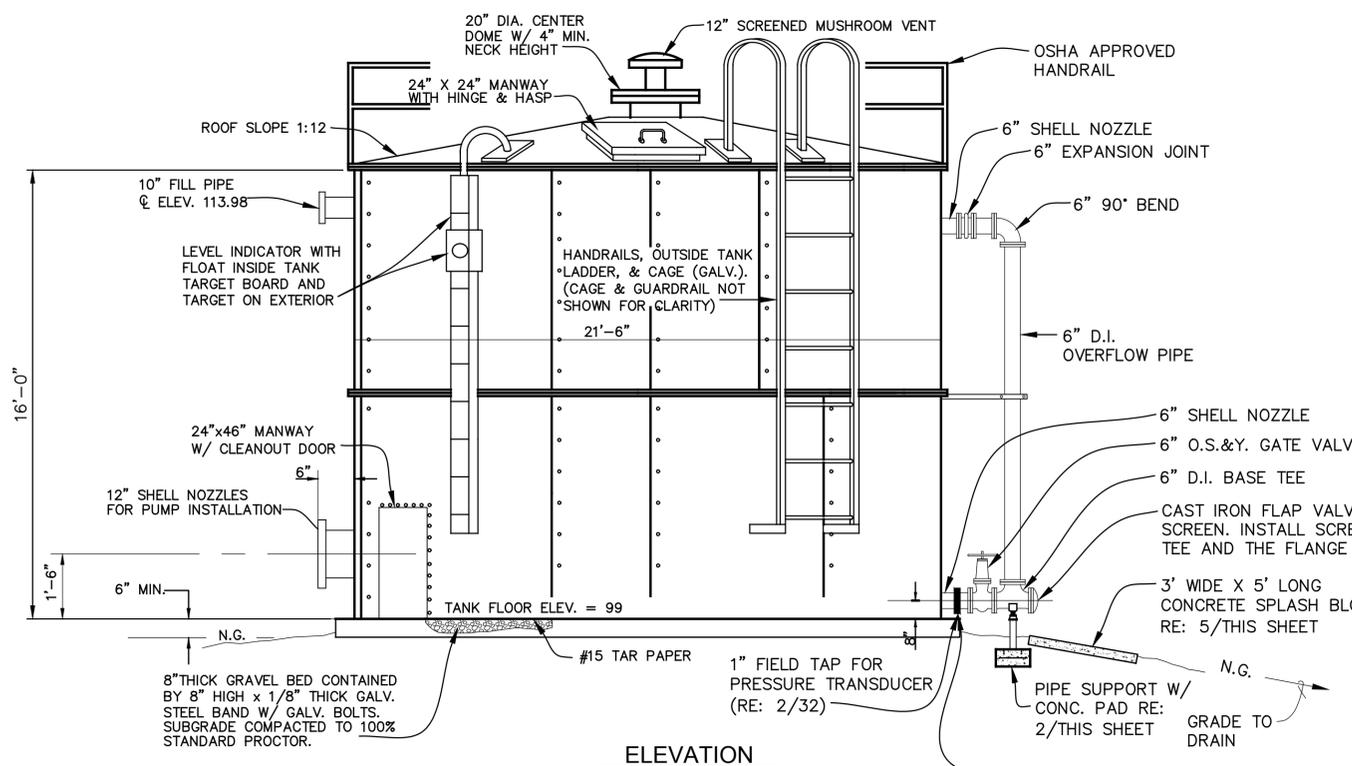
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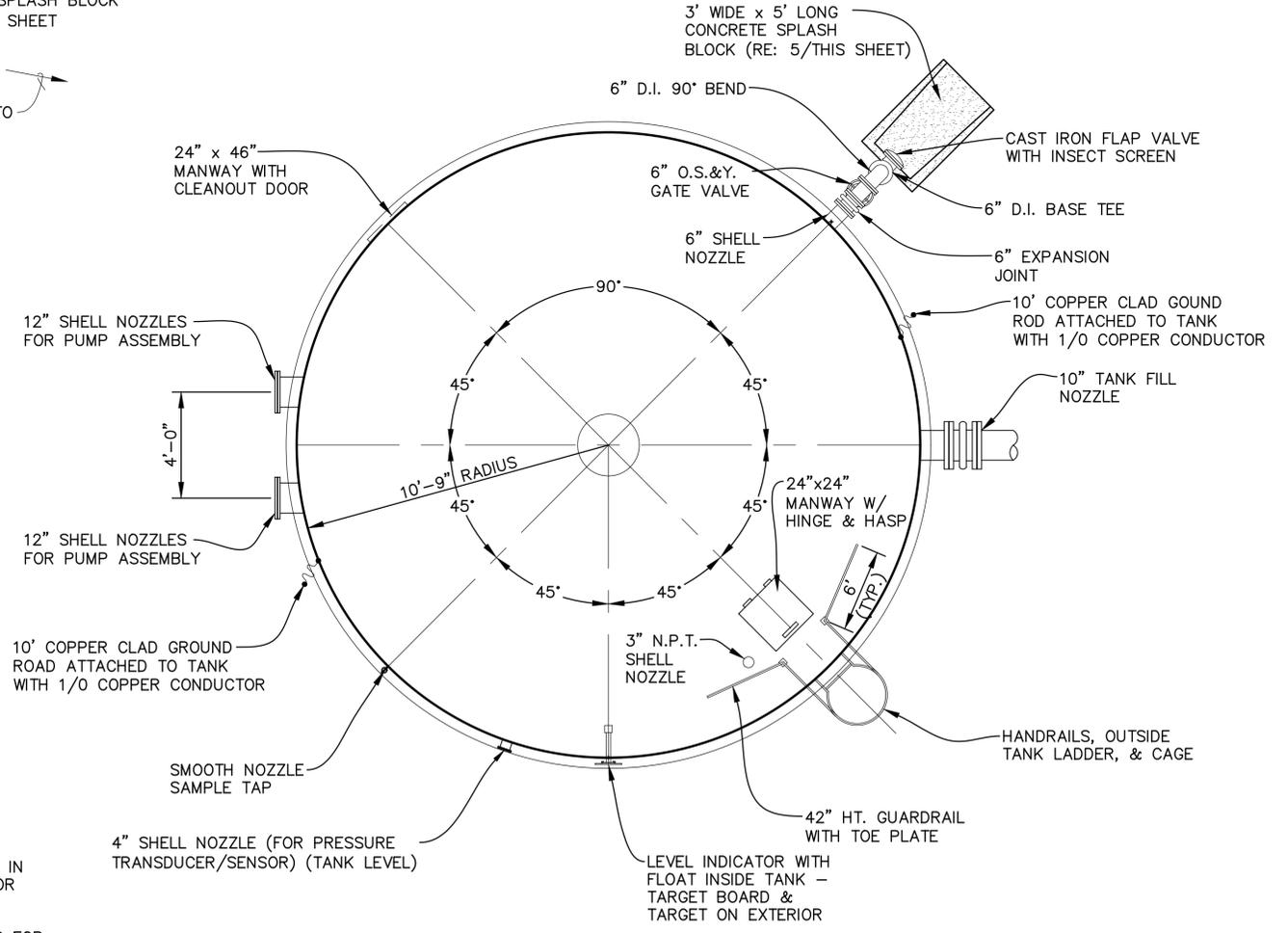
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 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
14
 OF 59



2 GROUND STORAGE TANK
 (44,000 GALLON CAPACITY)
 N.T.S.



1 GROUND STORAGE TANK
 (44,000 GALLON CAPACITY)
 N.T.S.

44,000 GALLON GROUND STORAGE TANK DETAILS

NOTES:
 TANK ACCESSORIES ARE ROTATED IN THIS VIEW. SEE PLANS ABOVE FOR EXACT LOCATION.
 PROVIDE FLANGED SHELL NOZZLES FOR 3" PIPE AND LARGER.
 PROVIDE THREADED COMPANION FLANGES FOR 2" PIPE AND SMALLER

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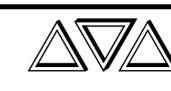
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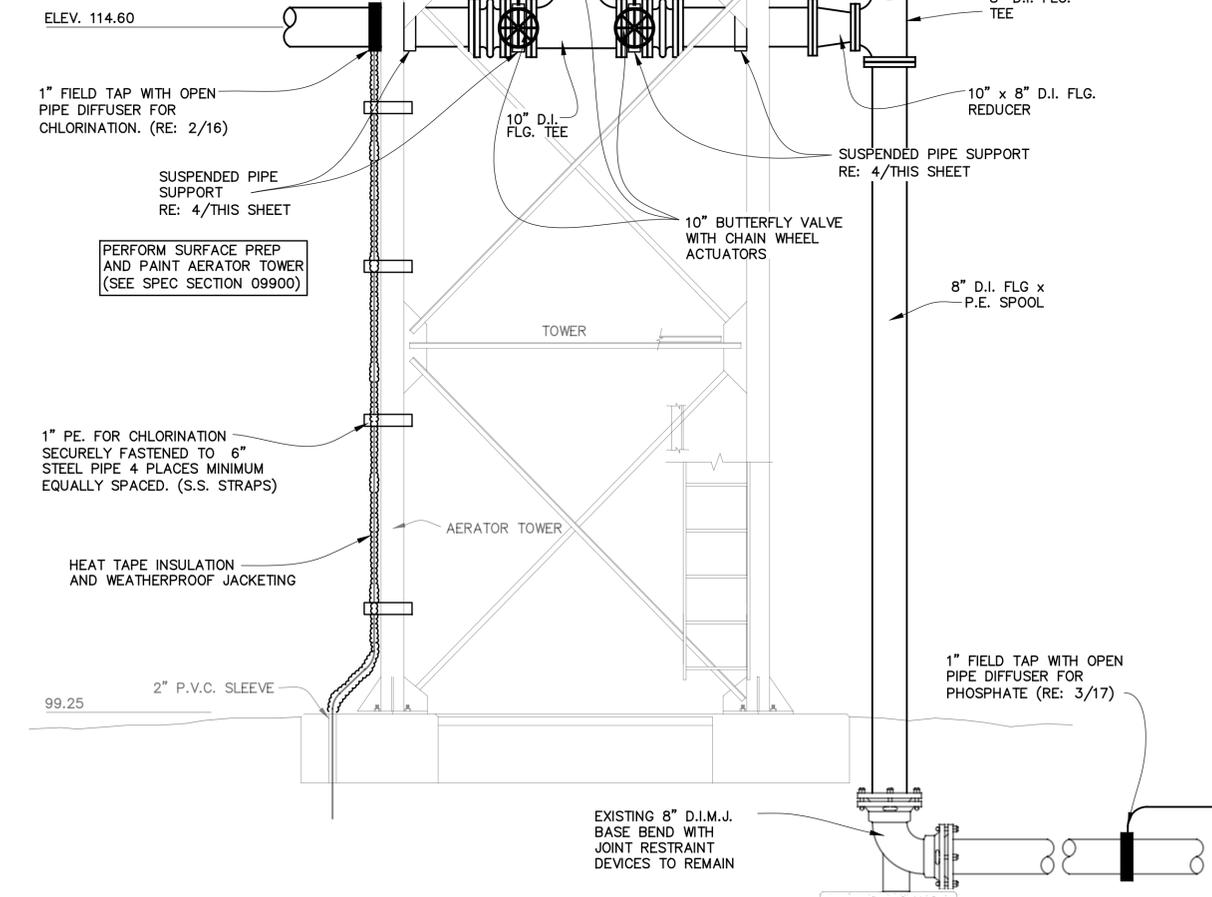
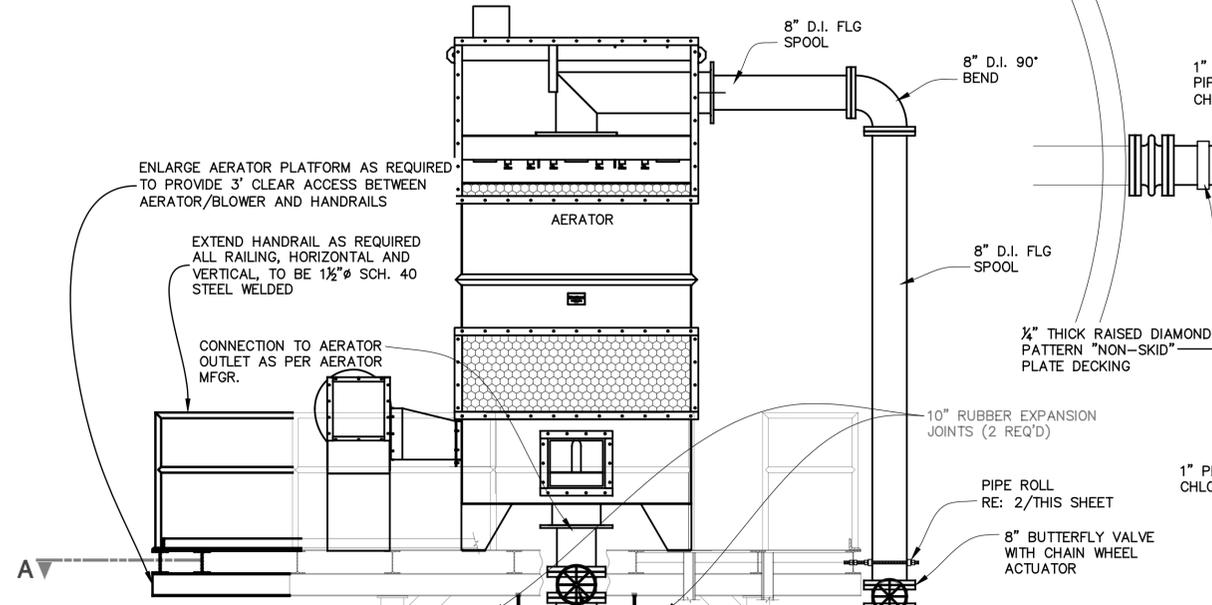
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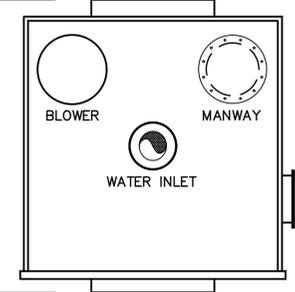
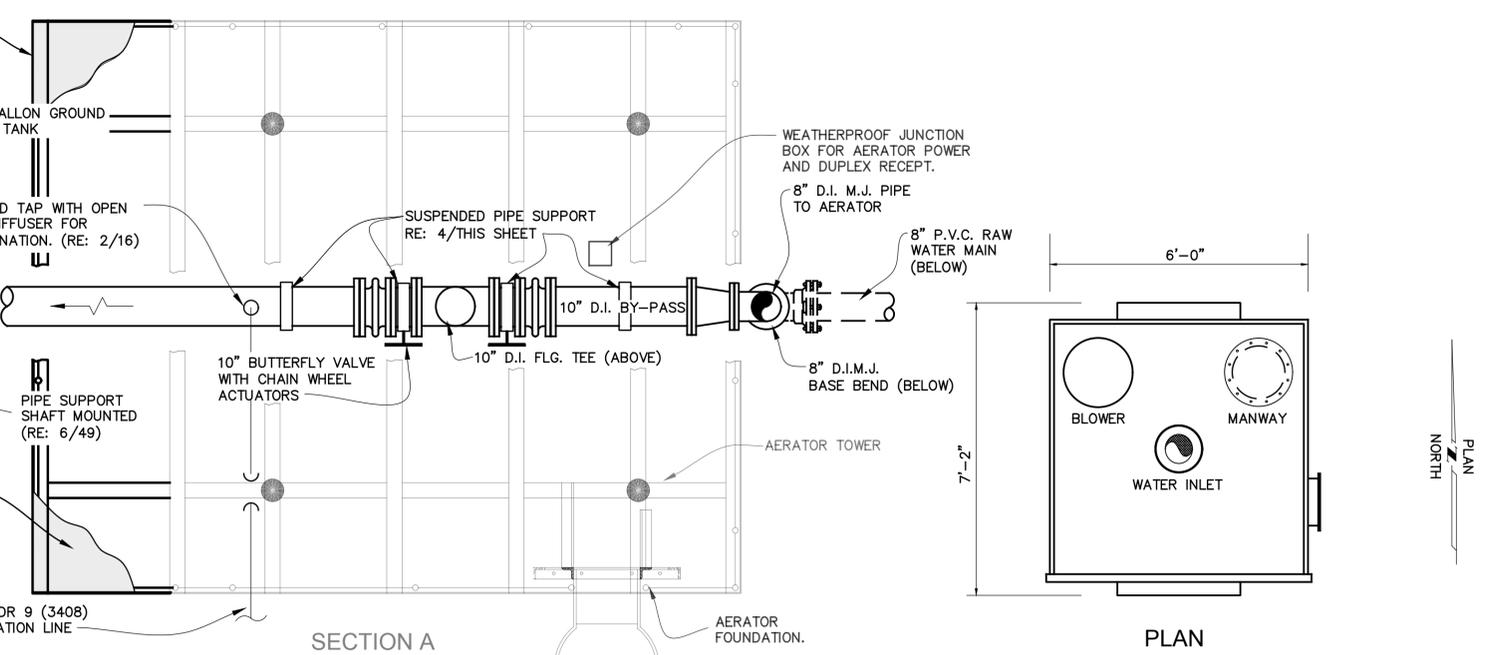
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ENLARGE AERATOR PLATFORM AS REQUIRED TO PROVIDE 3' CLEAR ACCESS BETWEEN AERATOR/BLOWER AND HANDRAILS

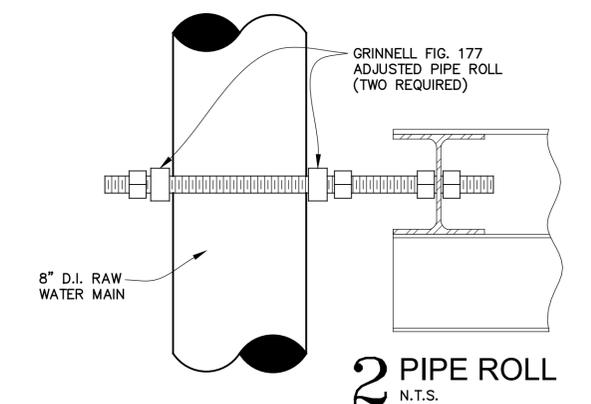


5 ELEVATION
N.T.S.

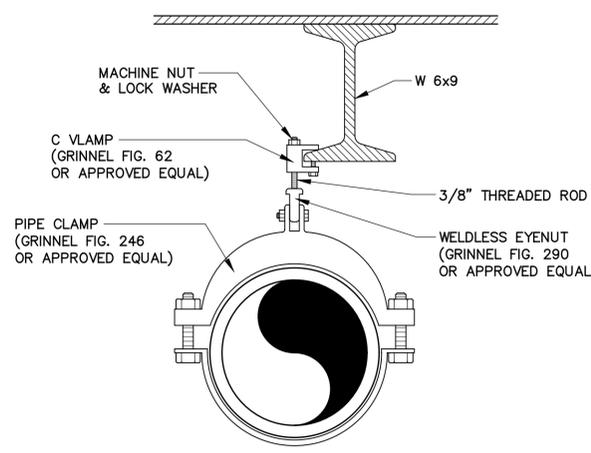


PLAN

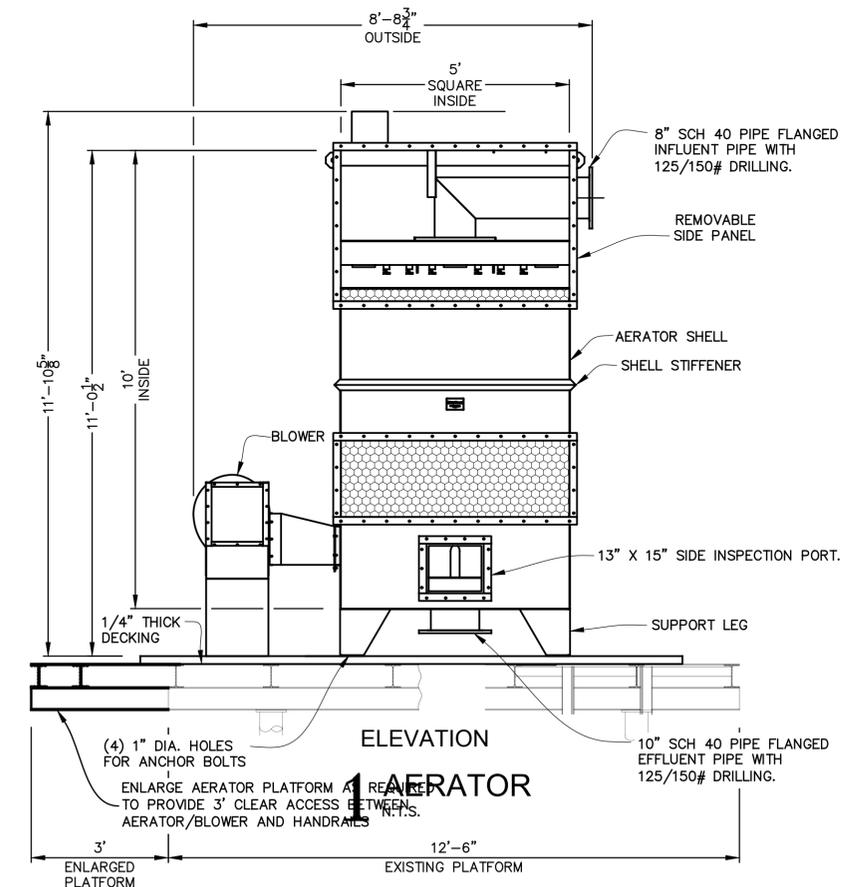
3 AERATOR PIPING
N.T.S.



2 PIPE ROLL
N.T.S.



4 SUSPENDED PIPE SUPPORT
N.T.S. (SPACE @ 4'-0" CENTERS)



1 AERATOR
N.T.S.

AERATOR DETAILS

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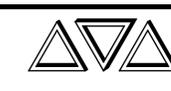
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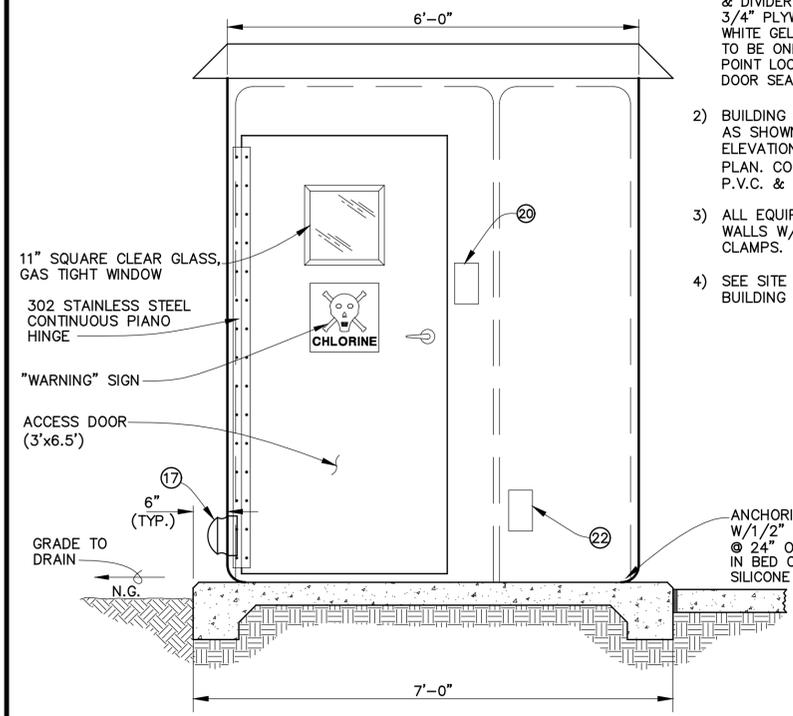
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BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

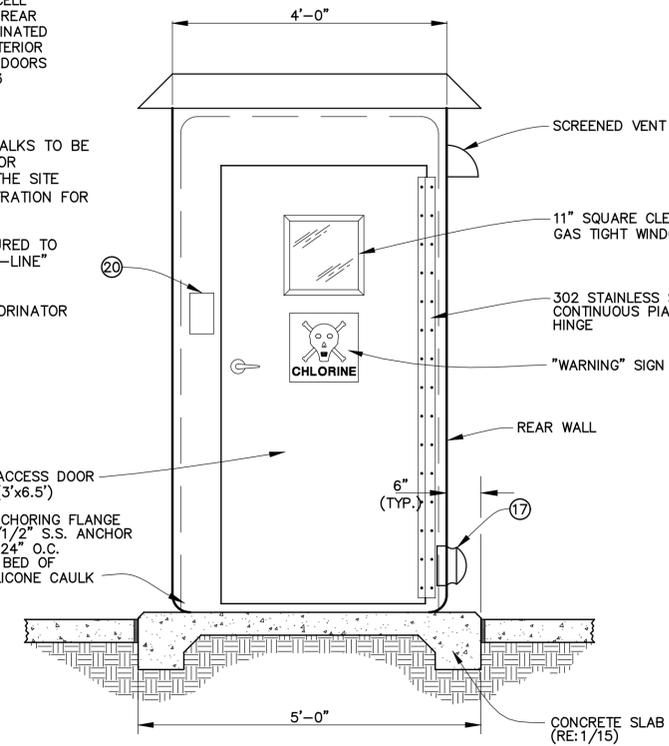
OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
16
 OF 59

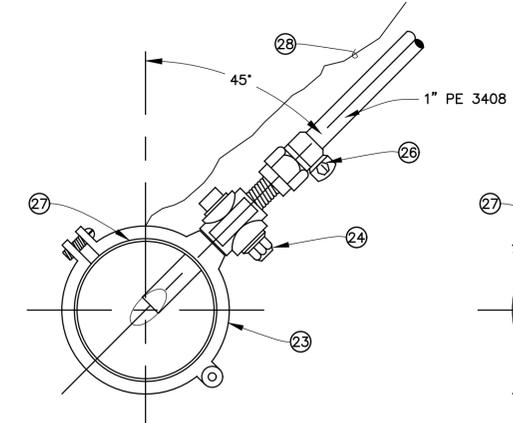
- NOTES:**
- 1) FIBERGLASS REINFORCED POLYESTER SKINS 1/8" OUTSIDE & 1/8" INSIDE, OVER 1" VERTICELL HONEYCOMB, RESIN SATURATED CORES. REAR & DIVIDER WALL TO BE 1/8" F.R.P. LAMINATED 3/4" PLYWOOD. MOLDED ONE PIECE, EXTERIOR WHITE GELCOAT, INSIDE GREY GELCOAT. DOORS TO BE ONE PIECE, HINGED AS SHOWN, 3 POINT LOCKING HANDLE WITH NEOPRENE DOOR SEAL.
 - 2) BUILDING FOUNDATION & CONCRETE WALKS TO BE AS SHOWN ON SITE PLAN. FINISH FLOOR ELEVATION SHALL BE AS SHOWN ON THE SITE PLAN. COORDINATE PAD/FLOOR PENETRATION FOR P.V.C. & ELECTRICAL CONDUITS.
 - 3) ALL EQUIPMENT & PIPING TO BE SECURED TO WALLS W/ALUMINUM "UNISTRUT" & "B-LINE" CLAMPS.
 - 4) SEE SITE PLANS FOR LAYOUT OF CHLORINATOR BUILDING & EQUIPMENT.



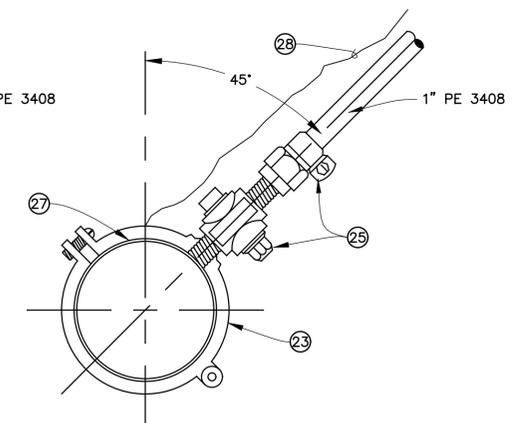
5 CHLORINATOR MODULE NORTH ELEVATION
 N.T.S.



6 CHLORINATOR MODULE WEST ELEVATION
 N.T.S.

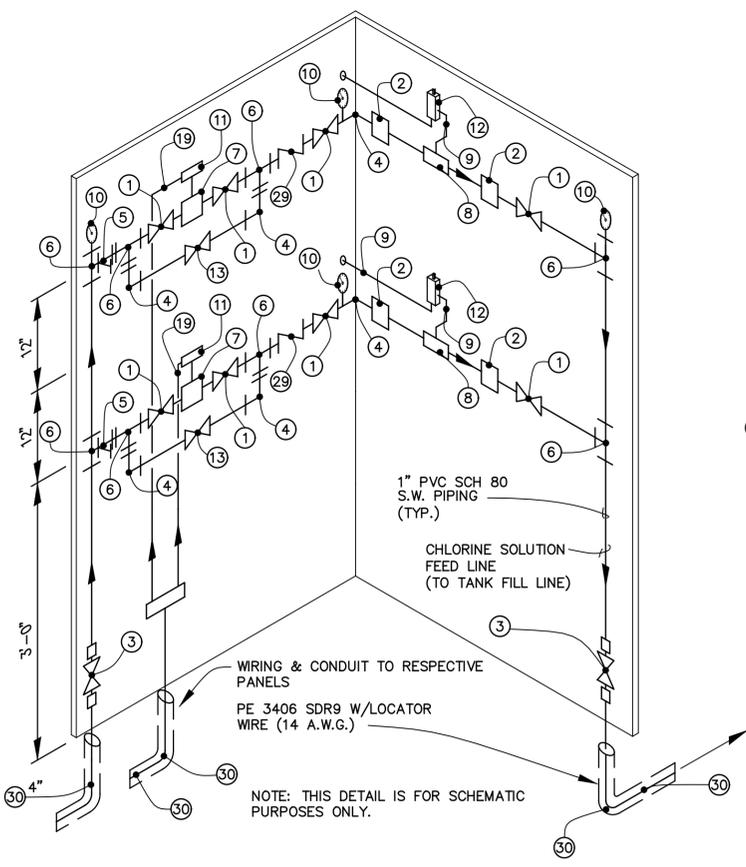


2 CHLORINE SOLUTION FEED LINE
 N.T.S.

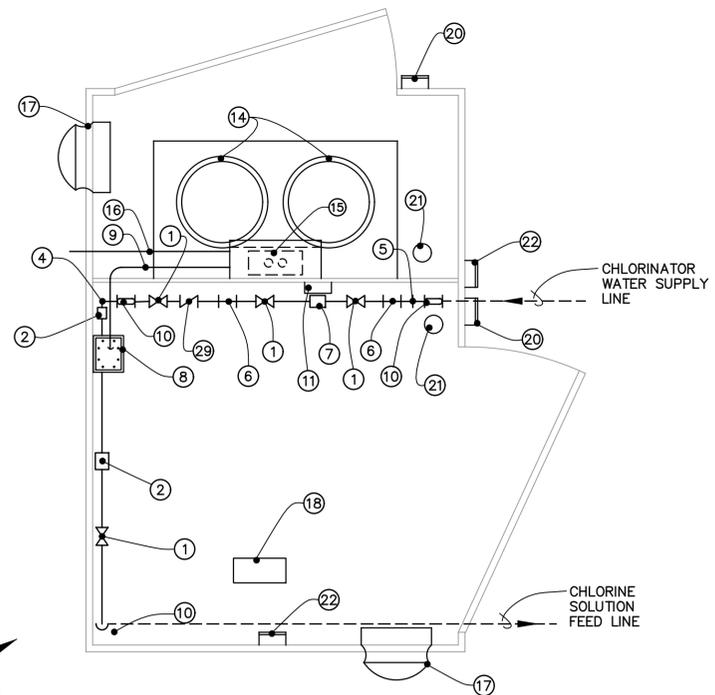


1 CHLORINE WATER SUPPLY LINE
 N.T.S.

LEGEND	
ITEM NO.	DESCRIPTION
1	1" PVC BALL VALVE (SPEARS, TRUE UNION)
2	1" PVC UNION
3	1" PVC BALL VALVE W/THREADED ENDS W/FORD C 84-44 & C 87-44 COUPLINGS.
4	1" PVC 90° ELBOW (SCH 80)
5	1" Y-STRAINER WITH PLUG
6	1" PVC TEE
7	1" SOLENOID VALVE W/S.S. BODY & POSITION INDICATOR
8	WALL MOUNTED CHLORINE INJECTOR UNIT W/CHLORINE FEED CHECK VALVE
9	INJECTOR PLASTIC TUBING
10	2 1/2" DIAMETER S.S. BOTTOM MOUNT, GLYCERIN FILLED, PRESSURE GAGE W/0-100 PSI SCALE (WKA TYPE 233.30), PRESSURE SNUBBERS (RAY MODEL NO. 010B) AND ISOLATION VALVE
11	ELECTRICAL JUNCTION BOX, NEMA 4X
12	ADJUSTABLE GAS FLOW METER
13	1" PVC GATE VALVE (THREADED ENDS) FOR BYPASS
14	TWO (2) 150 LBS. CHLORINE CYLINDER UNITS W/SAFETY CHAINS AND SCALE (WALLACE AND TIERNAN SERIES 50-345)
15	CHLORINATORS AND AUTOMATIC SWITCHOVER CYLINDERS VALVES (REGAL 216-2)
16	CHLORINATOR VENT TUBING TO OUTSIDE ATMOSPHERE
17	500 CFM, 115V, EXHAUST FAN, WITH BIRD SCREEN AND BACKDRAFT SHUTTERS
18	1500W FREE STANDING HEATER (ARVNAIR #29H90-01, GRAINGER #4H842)
19	ELECTRICAL PVC CONDUIT, PULL BOXES, FITTINGS AS REQUIRED
20	WALL MOUNTED LIGHT AND EXHAUST FAN SWITCH, 3 WAY, WEATHERPROOF FLIP LID ENCLOSURE
21	100 WATT VAPOR TIGHT LIGHT FIXTURE WITH 100 WATT LAMP AND LENS
22	120 VAC, DOUBLE RECEPTACLE, WALL MOUNTED, WEATHERPROOF FLIP LID ENCLOSURE
23	BRASS TAPPING SADDLE (FORD S-90)
24	1" BRASS CORPORATION STOP & NOZZLE ASSEMBLY (LMI PART NO. 27741)
25	1" BRASS CORPORATION STOP WITH 1" PACK JOINT COUPLING FOR PE TUBING W/ INSERT STIFFENER (FORD F1000-4)
26	1" PACK JOINT COUPLING FOR PE TUBING W/INSERT STIFFENER (FORD C 14-44)
27	WATER MAIN
28	STRANDED COPPER WIRE
29	1" PVC CHECK VALVE (SPEARS, TRUE UNION)
30	2" PVC SLEEVE FOR SLAB PENETRATION



4 CHLORINATION CONTROL ROOM PIPING DETAIL
 N.T.S.



3 CHLORINATION EQUIPMENT PLAN
 N.T.S.

PRINTED: 1/23/2026 8:39 AM FILE: P:\TH: M:\12641 - Nebo Water System - Consolidation With Manifest Rhinehart Water Sector\DESIGN\contract 4\SHEETS\12641-4 Details-Chlorine Building.dwg

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SCALE NOTE
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DRAWN BY: P.A.E.
 DATE: 10/2025

REVISION	DATE
CHECKED: T.C.D	
BOOK NO. N/A	
JOB NO. 12641-4	

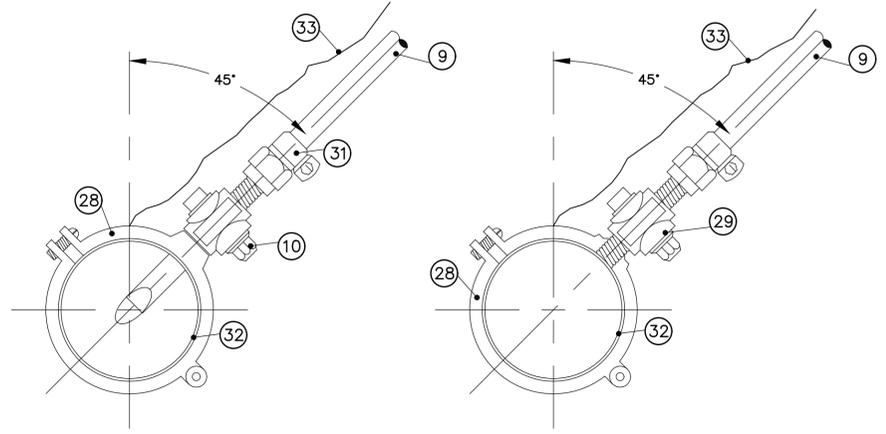
DWG. NO. 14645	
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OWNER: NEBO WATER SYSTEM, INC.
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 CONTRACT 4

SHEET NUMBER
17
 OF 59

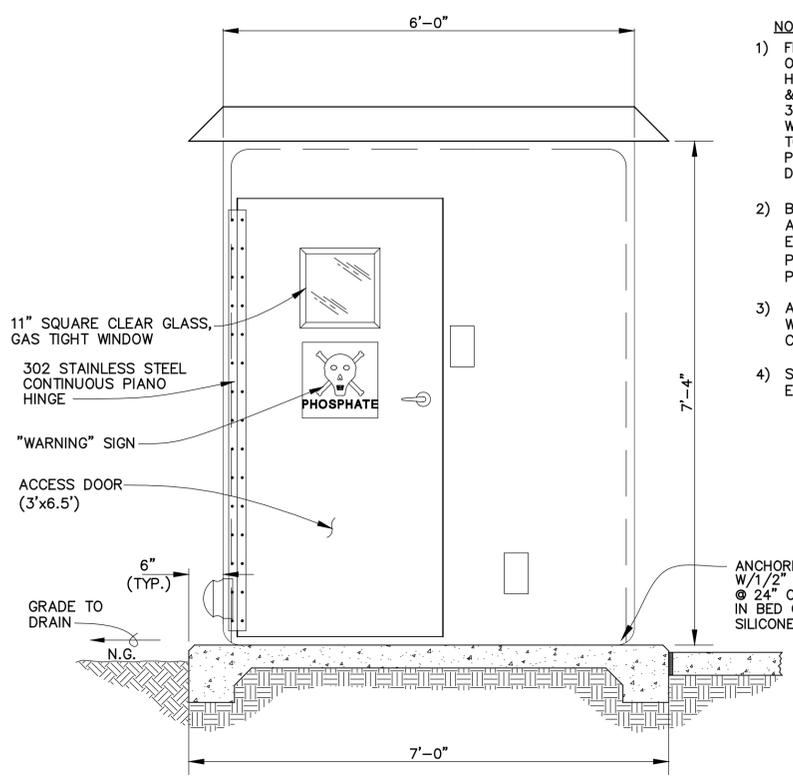
- NOTES:**
- 1) EACH CHEMICAL FEED PUMP SHALL BE CONTROLLED VIA H-0-A SWITCH. IN "AUTO" MODE, THE PUMPS ARE CONTROLLED BY THE CONTROL PANEL.
 - 2) PUMP MFRG. (SUPPLIER) SHALL FIT EACH PUMP FOR THE CHEMICAL SERVICE INTENDED AND CLEARLY LABEL EACH PUMP PRIOR TO SHIPMENT TO THE JOB SITE.
 - 3) TWO PUMPS SHALL BE PROVIDED.

- NOTES:**
- 1) FIBERGLASS REINFORCED POLYESTER SKINS 1/8" OUTSIDE & 1/8" INSIDE, OVER 1" VERTICELL HONEYCOMB, RESIN SATURATED CORES, REAR & DIVIDER WALL TO BE 1/8" F.R.P. LAMINATED 3/4" PLYWOOD, MOLDED ONE PIECE, EXTERIOR WHITE GELCOAT, INSIDE GREY GELCOAT. DOORS TO BE ONE PIECE, HINGED AS SHOWN, 3 POINT LOCKING HANDLE WITH NEOPRENE DOOR SEAL.
 - 2) BUILDING FOUNDATION & CONCRETE WALKS TO BE AS SHOWN ON SITE PLAN. FINISH FLOOR ELEVATION SHALL BE AS SHOWN ON THE SITE PLAN. COORDINATE PAD/FLOOR PENETRATION FOR P.V.C. & ELECTRICAL CONDUITS.
 - 3) ALL EQUIPMENT & PIPING TO BE SECURED TO WALLS W/ALUMINUM "UNISTRUT" & "B-LINE" CLAMPS.
 - 4) SEE SITE PLANS FOR LAYOUT OF BUILDING & EQUIPMENT.

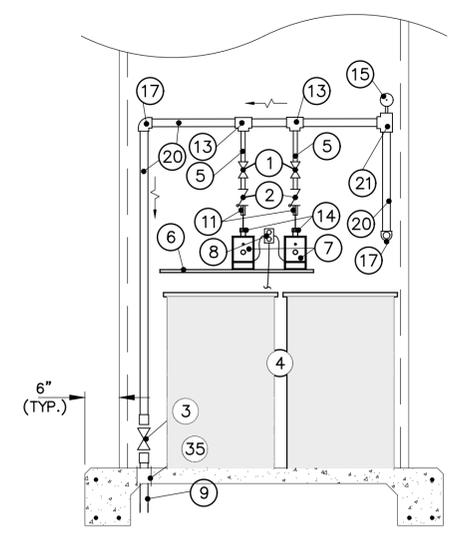


3 PHOSPHATE SOLUTION FEED LINE
 N.T.S.

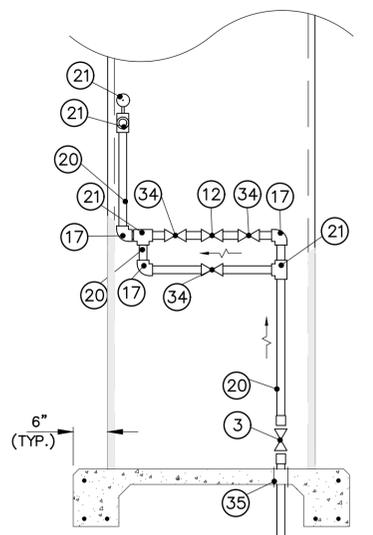
2 PHOSPHATE WATER SUPPLY LINE
 N.T.S.



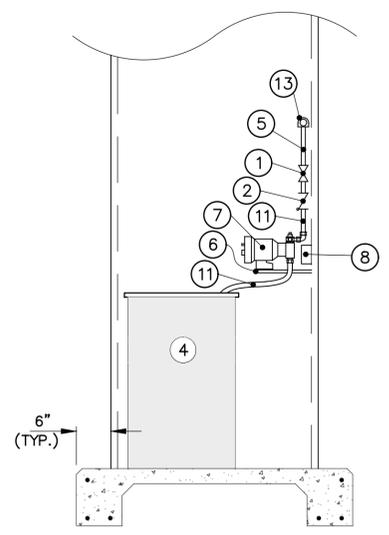
7 PHOSPHATE MODULE NORTH ELEVATION
 N.T.S.



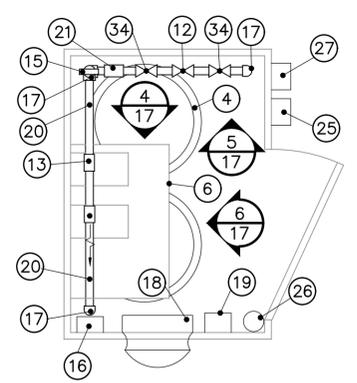
6 INTERIOR ELEVATION
 N.T.S.



5 INTERIOR ELEVATION
 N.T.S.



4 INTERIOR ELEVATION
 N.T.S.



1 EQUIPMENT PLAN
 N.T.S.

PLAN NORTH

LEGEND	
NO.	DESCRIPTION
1	3/4" SCH. 80 PVC TRUE-UNION BALL VALVE
2	3/4" SCH. 80 PVC TRUE-UNION BALL CHECK VALVE
3	1" PVC BALL VALVE W/THREADED ENDS W/FORD C 84-44 & C 87-44 COUPLINGS.
4	30 GALLON TANK
5	3/4" SCH. 80 PVC PIPE
6	PUMP SHELF (1/8" TYPE 304 S.S. 15" WIDE x 3' LONG)
7	CHEMICAL FEED PUMP
8	115 VAC. SINGLE PHASE (FROM CONTROL PANEL)
9	1" POLYETHYLENE TUBING
10	1" BRASS CORPORATION STOP & NOZZLE ASSEMBLY (LMI PART NO. 27741)
11	3/4" POLY TUBING TO 3/4" TRUE UNION ADAPTER
12	1" SOLENOID VALVE W/ S.S. BODY & POSITION INDICATOR
13	1"x1"x3/4" SCH. 80 PVC TEE
14	PRESSURE RELIEF VALVE
15	2 1/2" DIAMETER S.S., BOTTOM MOUNT, GLYCERIN FILLED PRESSURE GAGE W/0-100 PSI SCALE (WKA TYPE 233.30). PRESSURE SNUBBERS (RAY MODEL NO. 010B) AND ISOLATION VALVE.
16	ELECTRICAL JUNCTION BOX, NEMA 4X
17	1" SCH. 80 PVC 90° BEND
18	500 CFM, 115V, EXHAUST FAN, WITH BIRD SCREEN AND BACKDRAFT SHUTTERS.
19	1500W FREE STANDING HEATER (ARVINAIR #29H90-01, GRAINGER #4H842)
20	1" SCH. 80 PVC PIPE
21	1" SCH. 80 PVC TEE
22	LEFT BLANK INTENTIONALLY
23	LEFT BLANK INTENTIONALLY
24	LEFT BLANK INTENTIONALLY
25	WALL MOUNTED LIGHT AND EXHAUST FAN SWITCH, 3 WAY, WEATHERPROOF FLIP LID ENCLOSURE
26	100 WATT VAPOR TIGHT LIGHT FIXTURE WITH 100 WATT LAMP AND LENS
27	120 VAC, DOUBLE RECEPTACLE, WALL MOUNTED, WEATHERPROOF FLIP LID ENCLOSURE
28	BRASS TAPPING SADDLE (FORD S-90)
29	1" BRASS CORPORATION STOP WITH 1" PACK JOINT COUPLING FOR PE TUBING W/ INSERT STIFFENER (FORD F1000-4)
30	LEFT BLANK INTENTIONALLY
31	1" PACK JOINT COUPLING FOR PE TUBING W/INSERT STIFFENER (FORD C 14-44)
32	WATER MAIN
33	STRANDED COPPER WIRE
34	1" SCH. 80 PVC TRUE-UNION BALL VALVE
35	2" PVC SLEEVE FOR SLAB PENETRATION

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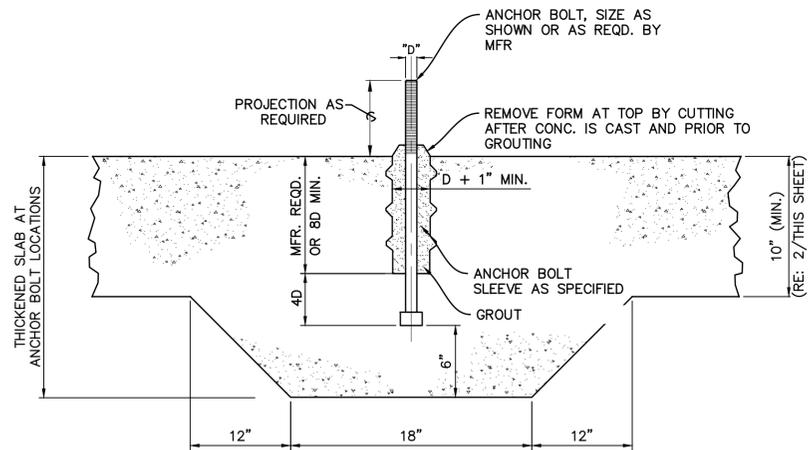
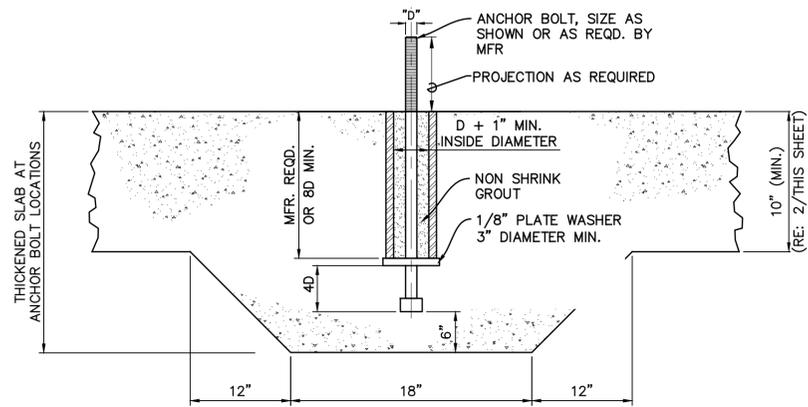
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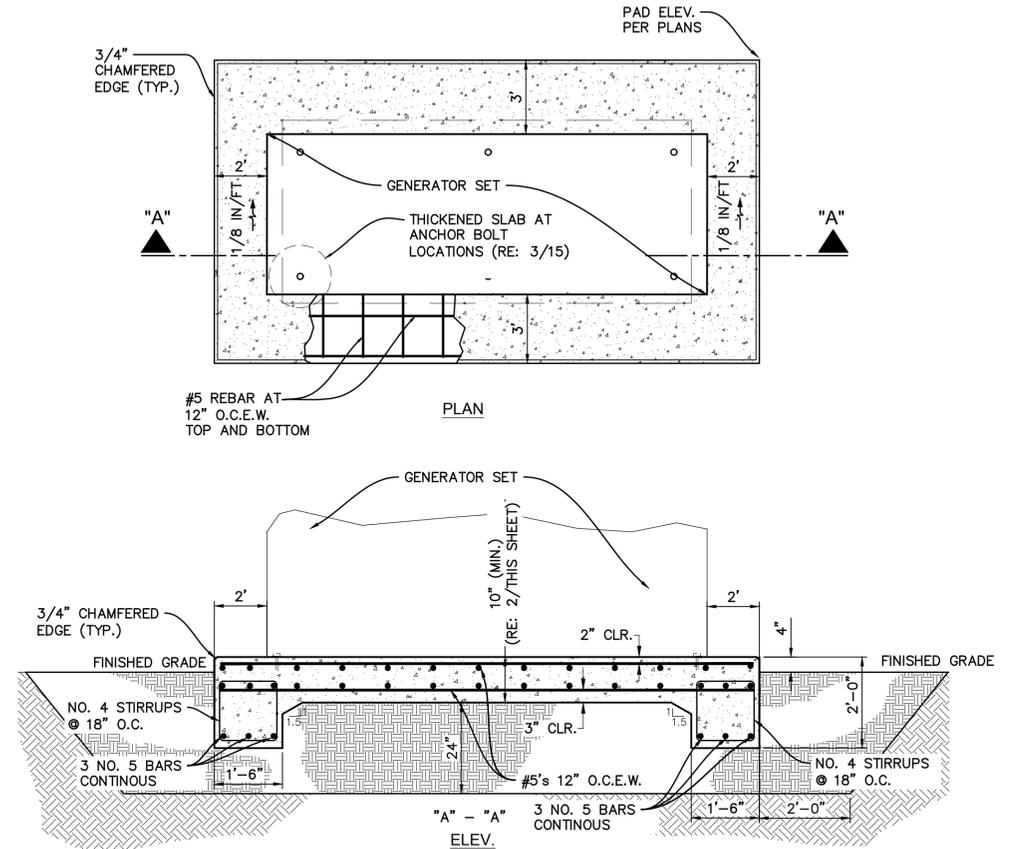


3 GENERATOR FOUNDATION SECTION A-A
 N.T.S.

1. MINIMUM PAD SIZE SHALL BE AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
2. THE SIZE, NUMBER, TYPE, LOCATION AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE OR OTHER ACCEPTABLE MEANS, WHILE PAD IS BEING CAST.
3. ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE MINIMUM ANCHOR BOLT MOVEMENT OF 1/2" IN ALL HORIZONTAL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER.
4. ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT AFTER BOLTS ARE ALIGNED. SEE ANCHOR BOLT DETAILS.
5. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS INDICATED OTHERWISE.
6. WEDGES, SHIMS, OR LEVELING NUTS SHALL BE USED TO SUPPORT THE BASE WHILE THE GROUT IS PLACED. WEDGES OR SHIMS SHALL BE REMOVED AFTER GROUT IS SET. PACK RESULTING VOIDS WITH GROUT.
7. THICKNESS OF PADS SHALL BE MINIMUM REQUIRED BASED ON ANCHOR BOLT DIAMETER (SEE TABLES BELOW).
8. ANCHORS SHALL BE INSTALLED WITH 6" MINIMUM EDGE DISTANCE IN EACH DIRECTION.
9. ALL CONCRETE SHALL BE CLASS A1 4,500 PSI

AB DIA (IN.)	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 1/2	1 3/4	2
MIN PAD THICKNESS (IN.)	10	10	10	11	12 1/2	15	16 1/2	18	21	24

2 CONCRETE GENERATOR PAD NOTES
 N.T.S.



NOTE: GENERATOR TO BE INSTALLED IN THE CENTER OF THE FOUNDATION

DESIGN BASED ON GENERAC _____ SERIES
 MODEL _____-200KW 60HZ.

1 GENERATOR FOUNDATION PLAN
 N.T.S.

MANIFEST-RHINEHART WELL SITE - GENERATOR DETAILS



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DATE 10/2025

REVISION DATE

CHECKED T.C.D

BOOK NO. N/A

JOB NO. 12641-4

DWG. NO. 14645

SCALE SHOWN

OWNER NEBO WATER SYSTEM, INC.

PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.

CONTRACT 4

SHEET NUMBER

18

OF 59

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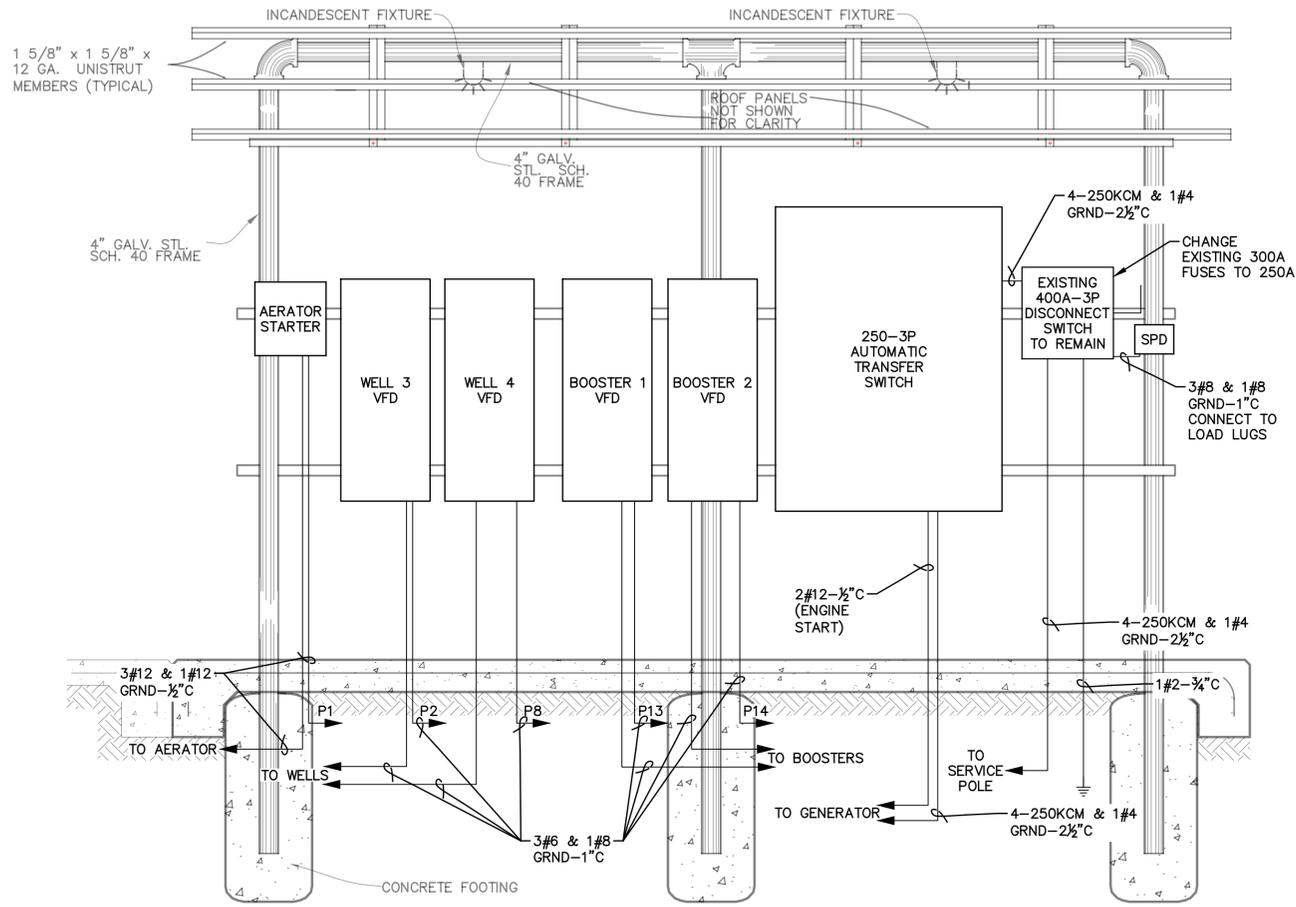
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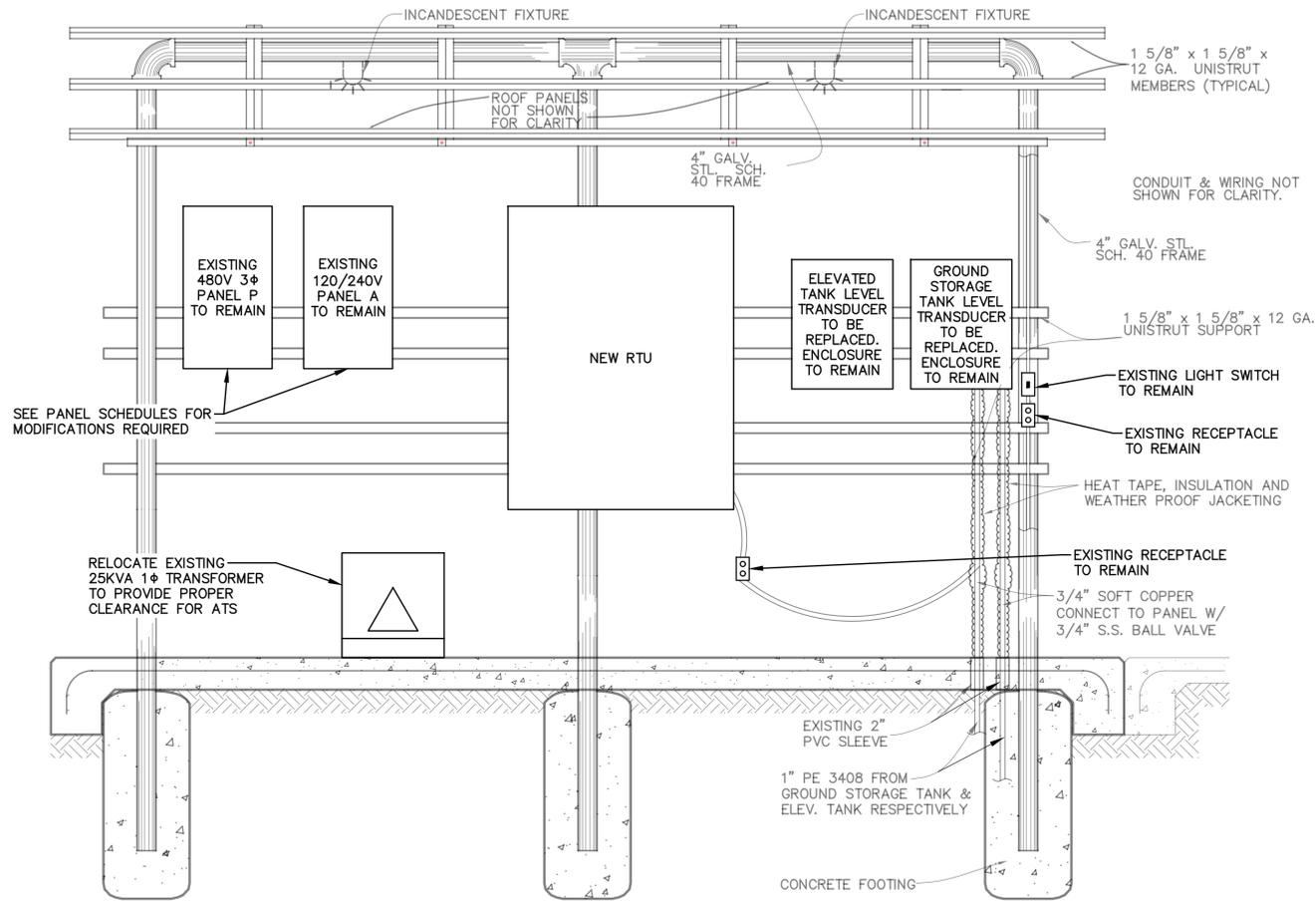
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OWNER NEBO WATER SYSTEM, INC.
 PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
19
 OF 59



SOUTHEAST SIDE OF ELECTRICAL RACK (FRONT)
 ELECTRICAL IMPROVEMENTS



NORTHWEST SIDE OF ELECTRICAL RACK (REAR)
 ELECTRICAL IMPROVEMENTS

1 ELECTRICAL CONTROL SHED
 N.T.S.

MANIFEST-RHINEHART WELL SITE - ELECTRICAL DETAILS

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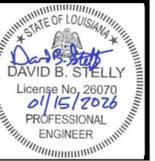
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DRAWN BY: P.A.E.
 DATE: 10/2025

REVISION	DATE
CHECKED	T.C.D
BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER: NEMO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
20
 OF 59

EXISTING PANEL "A"									
CKT NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA		LOAD SERVED	TRIP AMPS	NO. POLES	CKT NO.
				A	B				
1	20	1	CONTROLS	1000	1000	CHLORINE SOL VALVE	20	1	2
3	20	1	SHED LTS & RECP	1000	1000	CHLORINE SOL VALVE	20	1	4
5	20	1	BOOSTER 1 RECP	1000	1000	CHLORINE BLDG LTS & FAN	20	1	6
7	20	1	BOOSTER 2 RECP	1000	1000	CHLORINE BLDG HEATER	20	1	8
9	20	1	AERATOR RECP	1000	1000	PHOSPHATE PUMP	20	1	10
11	20	1	WELL 3 RECP	1000	1000	PHOSPHATE PUMP	20	1	12
13	20	1	WELL 4 RECP	1000	1000	PHOSPHATE BLDG LTS & FAN	20	1	14
15	20	1	AERATOR HEAT TAPE	1000	1000	PHOSPHATE BLDG HEATER	20	1	16
17	20	1	WATER FLOW METERS	1000	1000	SPARE	20	1	18
19	20	1	ELEV TANK TRANSDUCER	1000	1000	FLEV TANK OBST LT	20	1	20
21	20	1	GST TRANSDUCER	1000	1000	GST SENSING LINE HEATER	20	1	22
23	20	1	C.P. HEAT TAPE	1000	1000	RTU	20	1	24
25	20	1	BATTERY CHARGER	500	1000	SPACE ONLY	20	1	26
27	20	1	ENGINE HEATER	1000	1000	SPACE ONLY	20	1	28
29	20	1	SPACE ONLY			SPACE ONLY	20	1	30

* PROVIDE NEW BREAKER IN EXISTING SPACE

3 EXISTING PANEL A

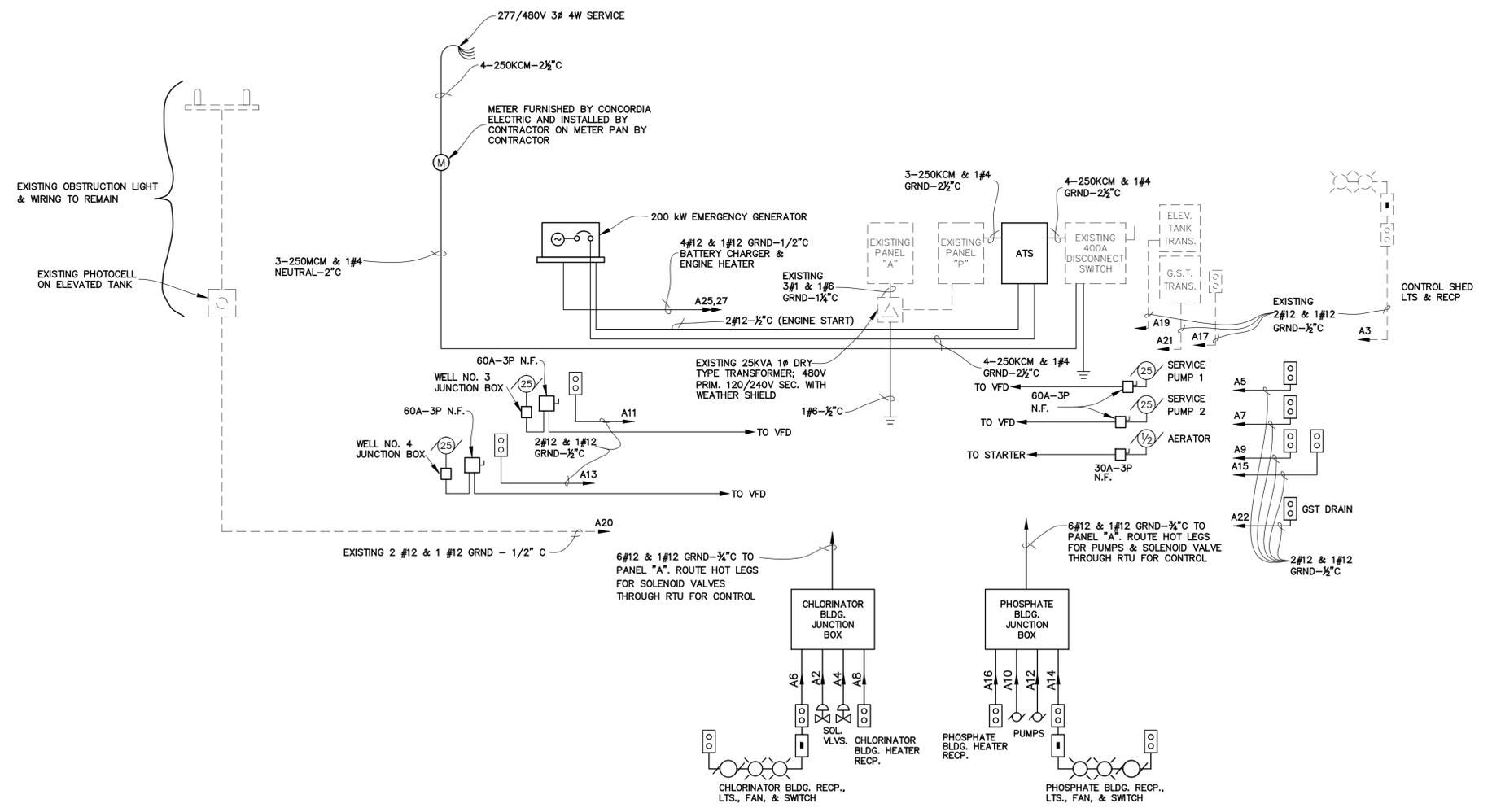
N.T.S.

EXISTING PANEL "P"										
CKT NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA			LOAD SERVED	TRIP AMPS	NO. POLES	CKT NO.
				A	B	C				
* 1	15	3	AERATOR				WELL 3	70	3	2
3	-	-	-				-	-	-	4
5	-	-	-				-	-	-	6
7	-	-	SPACE ONLY				WELL 4	70	3	8
9	70	2	TRANSFORMER				-	-	-	10
11	-	-	-				-	-	-	12
** 13	70	3	BOOSTER 1				BOOSTER 2	70	3	14
15	-	-	-				-	-	-	16
17	-	-	-				-	-	-	18

* PROVIDE NEW BREAKER IN EXISTING SPACE
 ** REMOVE EXISTING 110A-3P BREAKER AND INSTALL NEW AS SHOWN

2 EXISTING PANEL P

N.T.S.



1 DUPLEX PUMP STATION SITE ELECTRICAL RISER DIAGRAM

N.T.S.

MANIFEST-RHINEHART WELL SITE - ELECTRICAL RISER DIAGRAM

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THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



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A KEY

- 1 WELL HEAD FOUNDATION TOP OF PAD ELEVATION: WELL NO. 1 ELEV. = 96.14 WELL NO. 2 ELEV. = 95.14 RE: 1/38 AND 3/38
- 2 WELL HEAD ASSEMBLY RE: 1/38
- 3 6" PVC - C900 CLASS 100 SDR 25
- 4 6" D.I.M.J. 90° BEND
- 5 LEFT BLANK INTENTIONALLY
- 6 ELECTRICAL CONTROL SHED RE: 1/39
- 7 CONNECT TO EXISTING FENCE (RE: 4/41)
- 8 SIX (6') FOOT CHAIN LINK FENCE RE: 1/41
- 9 DOUBLE GATE/14' WIDE OPENING RE: 3/41
- 10 OVERHEAD ELECTRIC FEED FROM POWER COMPANY POLE TO SERVICE POLE (34)
- 11 JUNCTION BOX FOR WELL MOTOR CONNECTION
- 12 REMOVE 8" D.I.M.J. PLUG AND CONNECT TO 8" D.I.M.J. PIPE WITH 8" CUTTING IN SLEEVE.
- 13 12" x 8" D.I.M.J. REDUCER
- 14 1" P.E. CHLORINE SOLUTION FEED LINE & TAP. RE: 1/36 AND 2/36
- 15 1" P.E. PHOSPHATE SOLUTION FEED LINE & TAP. RE: 2/37 AND 3/37
- 16 2" P.V.C. WATER SUPPLY LINE & TAP. RE: 1/32
- 17 4'x6' FIBERGLASS CHLORINATOR MODULE F.F. ELEV. 98.67 RE: 5/36 AND 6/36
- 18 4'x6' FIBERGLASS PHOSPHATE MODULE F.F. ELEV. 98.67 RE: 7/37
- 19 4" THICK x 4' WIDE P.C. CONCRETE SIDEWALK WITH THICKENED EDGE RE: 1/35
- 20 1" P.E. PRESSURE TRANSMITTER WATER LINE AND TAPS. RE: 2/32
- 21 INDUCED DRAFT AERATOR AND TOWER RE: 1/33 AND 1/34
- 22 44,000 GALLON GROUND STORAGE TANK RE: 1/31 AND 6/31
- 23 DUPLEX PUMP STATION RE: 1/30
- 24 LEFT BLANK INTENTIONALLY
- 25 ELEVATED STEEL WATER TANK (INCLUDED IN CONTRACT NO. 2)
- 26 8" D.I.M.J. TEE
- 27 8" GATE VALVE W/ CAST IRON VALVE BOX AND CONCRETE PAD (RE: 4/26)
- 28 LEFT BLANK INTENTIONALLY
- 29 CONNECT TO EXISTING 6" WATER MAIN WITH 6" CUTTING IN SLEEVE
- 30 DEMOLISH EXISTING WELLHEAD (WELL HAS BEEN PLUGGED AND ABANDONED)
- 31 8" PVC - C900 CLASS 100 SDR25 WATER MAIN
- 32 8" D.I.M.J. 22½° BEND
- 33 8" x 6" D.I.M.J. REDUCER
- 34 EXISTING POLE TO BE CONVERTED TO SERVICE POLE W/GUY
- 35 EXISTING POLE TO BE REMOVED
- 36 REMOVE 12" D.I.M.J. PLUG AND CONNECT TO 12" D.I.M.J. PIPE WITH 12" CUTTING IN SLEEVE.
- 37 RELOCATED STORAGE BUILDING
- 38 RELOCATED ELECTRICAL BUILDING (TO BE USED FOR STORAGE)
- 39 HIGHWAY CROSSING - 120 L.F. OF 8" PE-3408 SDR-11 WATER MAIN (RE: 5/23)
- 40 8" PE TO D.I.M.J. CONNECTION (RE: 6/26)
- 41 CUT AND CAP EXISTING 4" WATER MAIN
- 42 CONTRACTOR TO COORDINATE WITH POWER COMPANY TO HAVE ELECTRICAL SERVICE REROUTED TEMPORARILY DURING CONSTRUCTION
- 43 REMOVE AND DISPOSE OF EXISTING FENCE BETWEEN POINT NO. 3 AND POINT NO. 6

B GENERAL NOTES

- 1) THE LIST OF ITEMS SHOWN UNDER GENERAL SCOPE OF WORK IS NOT INTENDED TO BE A CHRONOLOGICAL SCHEDULE OR A COMPREHENSIVE LIST OF REQUIRED WORK ITEMS.
- 2) CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE TO THE SITE WITH POWER COMPANY & PAY FOR ALL DEPOSITS, ACCOUNT TRANSFERS ETC. AS REQUIRED TO TRANSFER SERVICE TO THE OWNER AS SPECIFIED IN SECTION 16000.
- 3) CHAIN LINK FENCE TO BE INSTALLED ONE (1') FOOT INSIDE OF PROPERTY LINES.
- 4) CONTRACTOR FOR CONTRACT NO. 1 SHALL COORDINATE WORK SO AS NOT TO INTERFERE WITH ELEVATED TANK CONTRACTOR.

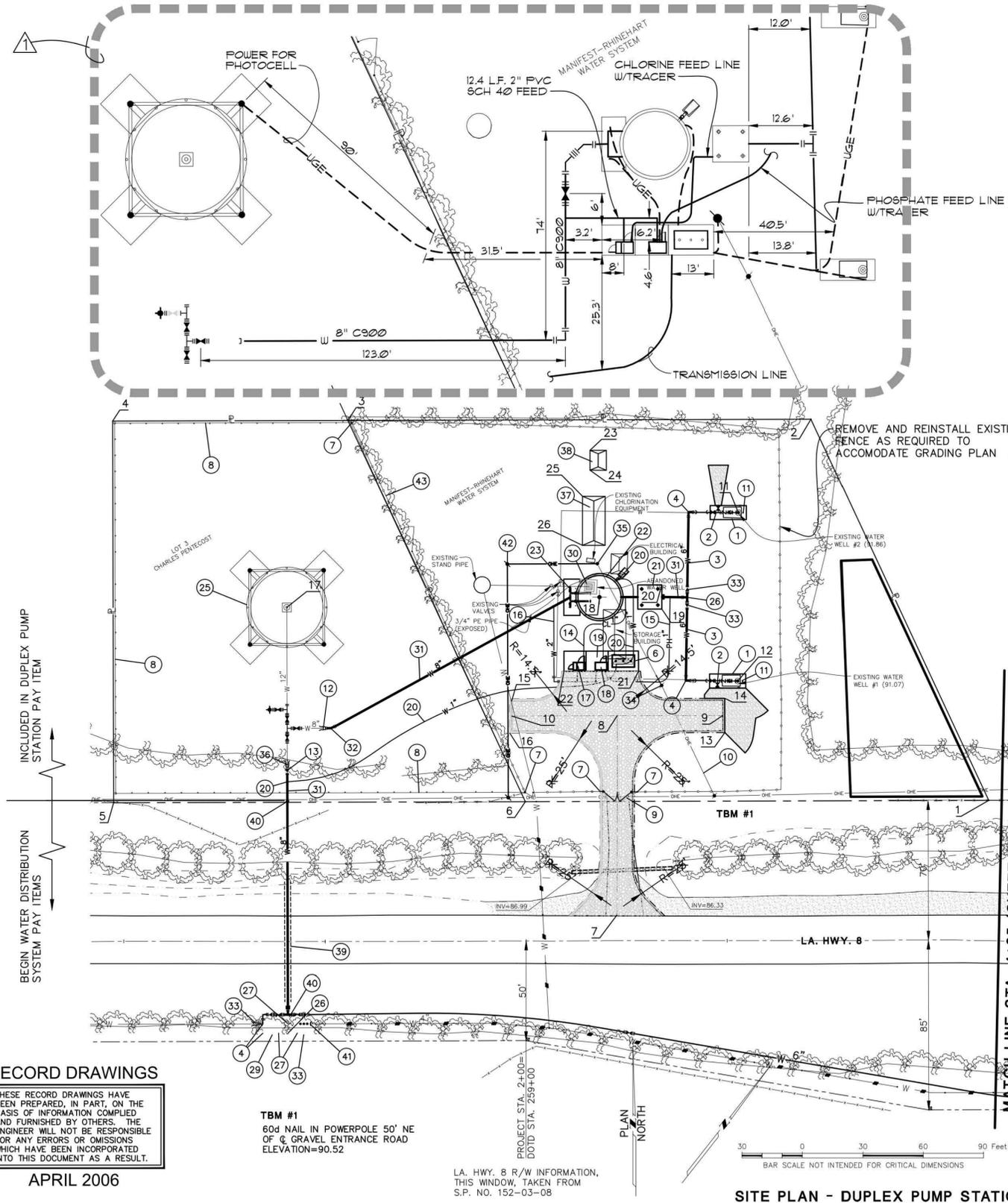
C GENERAL SCOPE OF WORK

- 1) CONDUCT REHABILITATION OF WELLS WITH WELL HEAD ASSEMBLIES, RAW WATER PIPING, ETC.
- 2) DISINFECT THE WATER PRODUCTION WELLS & PIPING.
- 3) INSTALL ALL ELECTRICAL EQUIPMENT & PUMP CONTROLS.
- 4) INSTALL & CONNECT CHLORINATION SYSTEM AND PHOSPHATE FEED SYSTEM.
- 5) CONNECT TO THE 12" & 8" PIPING INSTALLED BY THE ELEVATED TANK CONTRACTOR.
- 6) CONSTRUCT GROUND STORAGE TANK, PUMP STATION, & AERATOR ASSEMBLY.
- 7) CONTRACTOR SHALL PROVIDE & INSTALL WIRING & CONDUIT AS REQUIRED TO CONNECT TO THE JUNCTION BOX & WIRING PROVIDED BY THE ELEVATED WATER TANK CONTRACTOR FOR OPERATION OF THE PHOTOCELL FOR THE DOUBLE OBSTRUCTION LIGHT. JUNCTION BOX & WIRING PROVIDED BY THE ELEVATED WATER TANK CONTRACTOR SHALL BE LOCATED ON THE NORTH-WEST LEG OF THE TANK AT A POINT TWENTY FIVE (25) FOOT ABOVE FINISHED GRADE.
- 8) SALVAGE ALL EXISTING ELECTRICAL EQUIPMENT IN EXISTING ELECTRICAL BUILDING AND DELIVER TO OWNER
- 9) SALVAGE ALL EXISTING CHLORINATION EQUIPMENT AND DELIVER TO OWNER

D LEGEND

- 1 WORK ITEM IN KEY
- 1/ POINT NO. & COORDINATE
- R/W RIGHT OF WAY
- P PROPERTY LINE
- OHE OVERHEAD ELECTRIC LINE
- W 6" PROPOSED WATER MAIN
- LIMITS OF CRUSHED STONE SURFACING
- LIMITS OF SAND, CLAY, GRAVEL BASE

POINT NO.	NORTH	EAST	DESCRIPTION
1	5000.00	5000.00	PROPERTY CORNER
2	5093.94	4813.64	PROPERTY CORNER
3	4950.93	4633.04	PROPERTY CORNER
4	4878.38	4541.41	PROPERTY CORNER
5	4729.95	4658.97	PROPERTY CORNER
6	4856.99	4819.41	PROPERTY CORNER
7	4840.97	4889.99	CENTERLINE OF ROAD
8	4918.77	4828.96	CENTERLINE OF ROAD
9	4953.00	4876.66	CENTERLINE OF ROAD
10	4886.18	4787.80	CENTERLINE OF ROAD
11	5035.23	4813.92	WELL HEAD NO. 2
12	4969.37	4865.38	WELL HEAD NO. 1
13	4945.32	4876.18	EDGE OF BASE COURSE
14	4958.64	4865.62	EDGE OF BASE COURSE
15	4892.22	4781.74	EDGE OF BASE COURSE
16	4878.89	4792.29	EDGE OF BASE COURSE
17	4859.28	4666.55	CENTER ELEVATED TANK
18	4959.53	4785.64	CENTER GND. STORAGE TANK
19	4983.48	4806.22	CORNER OF AERATOR SLAB
20	4974.07	4813.67	CORNER OF AERATOR SLAB
21	4942.69	4823.50	CORNER OF EQUIP. SLAB
22	4919.67	4794.51	CORNER OF EQUIP. SLAB
23	5013.85	4736.83	BUILDING CORNER
24	5006.06	4742.92	BUILDING CORNER
25	4993.61	4748.03	BUILDING CORNER
26	4974.45	4763.03	BUILDING CORNER
27	0000.00	0000.00	DESCRIPTION
28	0000.00	0000.00	DESCRIPTION
29	0000.00	0000.00	DESCRIPTION
30	0000.00	0000.00	DESCRIPTION
31	0000.00	0000.00	DESCRIPTION



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TBM #1
60d NAIL IN POWERPOLE 50' NE OF CL GRAVEL ENTRANCE ROAD ELEVATION=90.52

LA. HWY. 8 R/W INFORMATION, THIS WINDOW, TAKEN FROM S.P. NO. 152-03-08

SITE PLAN - DUPLEX PUMP STATION



Thomas C. David, Jr.
REG. NO. 18878
REGISTERED PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING

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DRAWN BY P.A.E.
DATE 5/03

REVISION	DATE
RECORDED DRAWINGS	4/06
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	6186

DWG. NO. 9710
SCALE 1" = 30'

OWNER
PROJECT
MANIFEST-RHINEHART WATER SYSTEM
RURAL WATER DISTRIBUTION SYSTEM
CONTRACT NO. 1 - WATER DISTRIBUTION MAINS, BOOSTER STATIONS, GROUND STORAGE TANK, & DUPLEX PUMP STATION

OWNER
PROJECT
NEBO WATER SYSTEM, INC.
CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
CONTRACT 4

SHEET NUMBER
28
OF 41



PAN AMERICAN ENGINEERS - ALEXANDRIA, INC.
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RECORD DRAWINGS

MANIFEST-RHINEHART WELL SITE - ARCHIVE DRAWING (1 OF 4)

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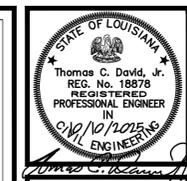
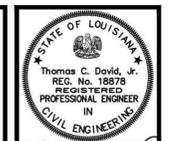
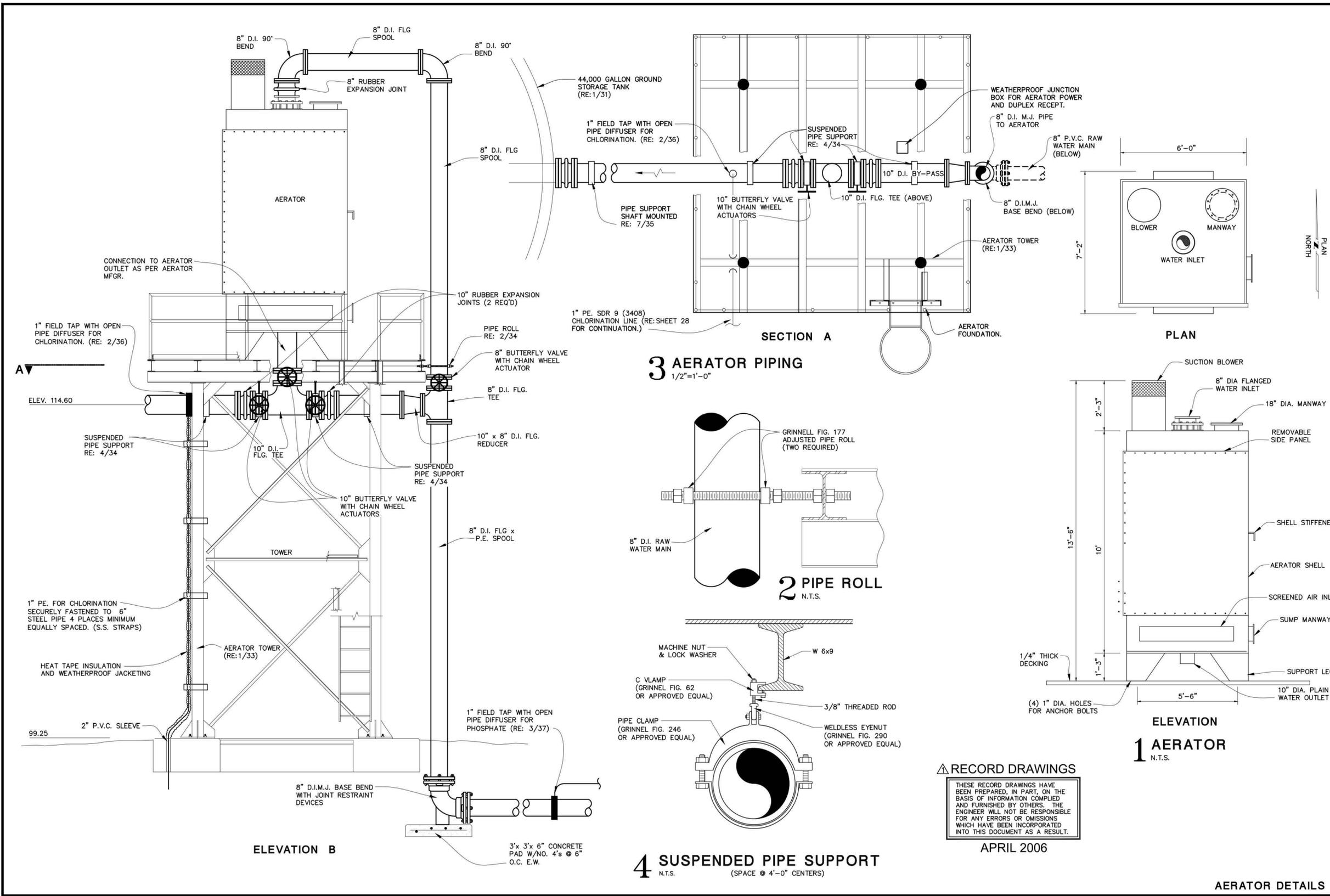
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OF 59

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JOB NO.	12641-4

DWG. NO. 9710
 SCALE SHOWN

DWG. NO. 14645
 SCALE SHOWN

OWNER: MANIFEST-RHINEHART WATER SYSTEM
 PROJECT: RURAL WATER DISTRIBUTION SYSTEM CONTRACT NO. 1 - WATER DISTRIBUTION MAINS, BOOSTER STATIONS, GROUND STORAGE TANK, & DUPLEX PUMP STATION

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC. CONTRACT 4

SHEET NUMBER
34
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SHEET NUMBER
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RECORD DRAWINGS

MANIFEST-RHINEHART WELL SITE - ARCHIVE DRAWING (3 OF 4)

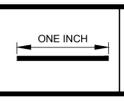
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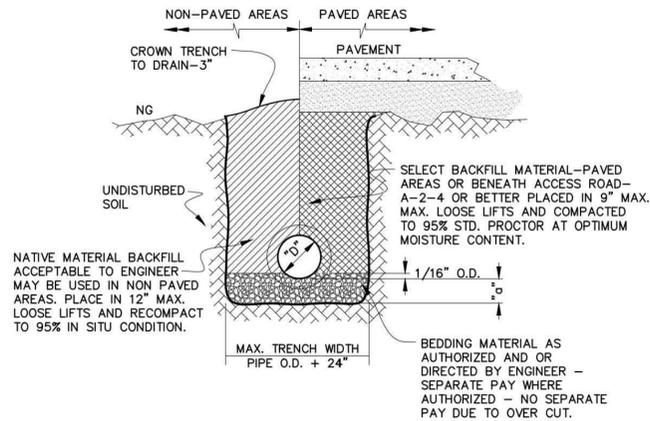


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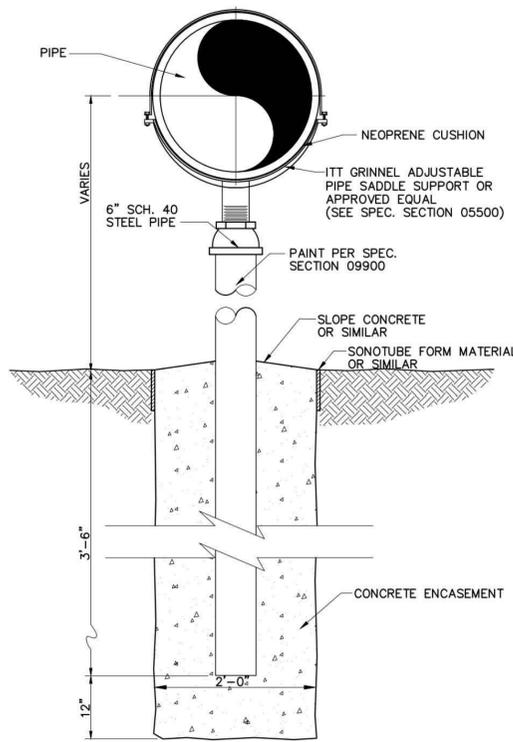
TABLE OF BEDDING DEPTH BELOW PIPE	
"D"	"a"
27" AND SMALLER	4"
30" TO 60"	6"
66" AND LARGER	8"

LEGEND
 O.D. = OUTSIDE DIAMETER OF CONDUIT
 "a" = BEDDING BELOW PIPE
 "D" = CONDUIT INSIDE DIAMETER

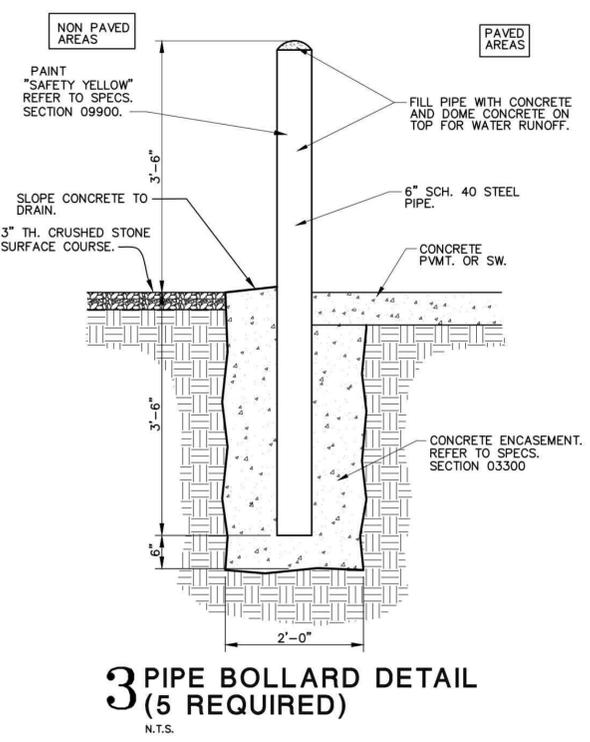
ALL R.C.P. PIPE JOINTS TO BE WRAPPED WITH 18" WIDE GEOTEXTILE FABRIC FILTER CLOTH WITH 12" MIN OVERLAP AT ENDS-RE. TECH. SPECS.



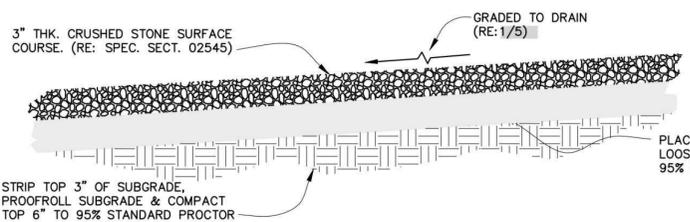
6 DRAINAGE CULVERT BEDDING AND TRENCH BACKFILL DETAIL
 N.T.S.



7 PIPE SUPPORT - SHAFT MOUNTED
 N.T.S.

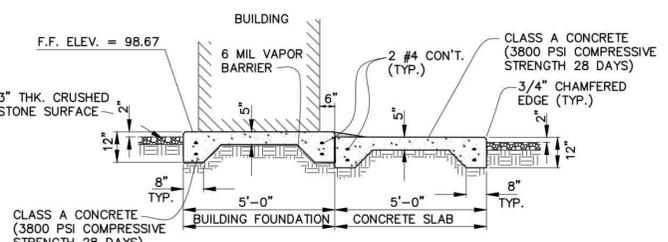


3 PIPE BOLLARD DETAIL (5 REQUIRED)
 N.T.S.

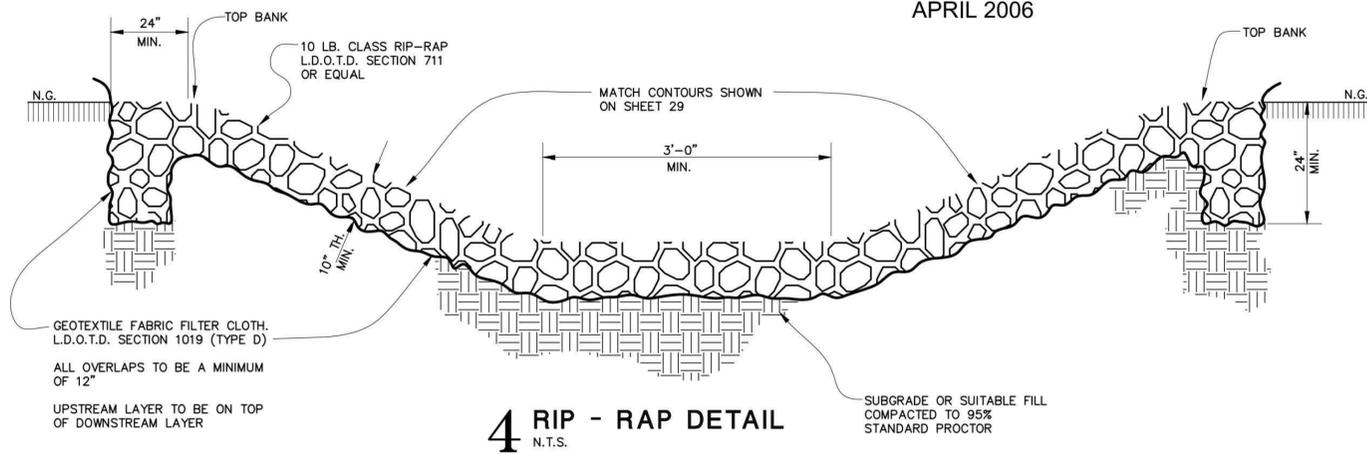


5 CRUSHED STONE SURFACE COURSE
 N.T.S.

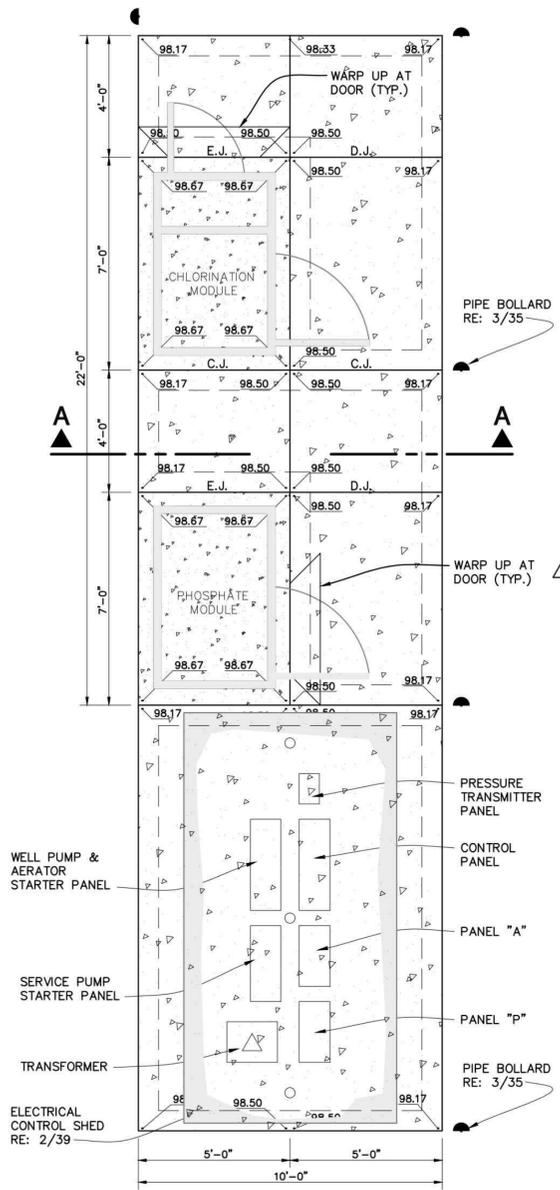
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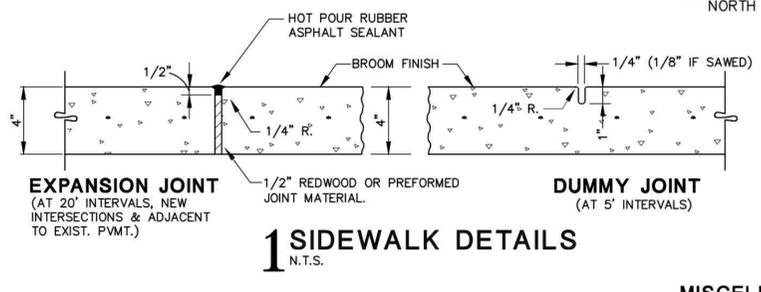
2 SECTION A-A
 N.T.S.



4 RIP - RAP DETAIL
 N.T.S.



2 PLAN - EQUIPMENT BUILDING AND SIDEWALK FOUNDATION
 N.T.S.



1 SIDEWALK DETAILS
 N.T.S.

MISCELLANEOUS SITE DETAILS



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DRAWN BY P.A.E.
 DATE 5/03

REVISION DATE
 RECORD DRAWINGS 4/06

CHECKED T.C.D.
 BOOK NO. N/A
 JOB NO. 6186

DWG. NO. 9710
 SCALE AS SHOWN

DWG. NO. 14645
 SCALE SHOWN

OWNER: MANIFEST-RHINEHART WATER SYSTEM
 PROJECT: RURAL WATER DISTRIBUTION SYSTEM CONTRACT NO. 1 - WATER DISTRIBUTION MAINS, BOOSTER STATIONS, GROUND STORAGE TANK, & DUPLEX PUMP STATION

SHEET NUMBER
35
 OF 41

PAN AMERICAN ENGINEERS - ALEXANDRIA, INC.
 P.O. BOX 89 / 1717 JACKSON STREET
 ALEXANDRIA, LA. 71309
RECORD DRAWINGS

MANIFEST-RHINEHART WELL SITE - ARCHIVE DRAWING (4 OF 4)

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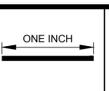
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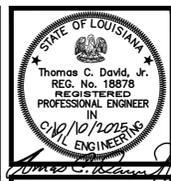
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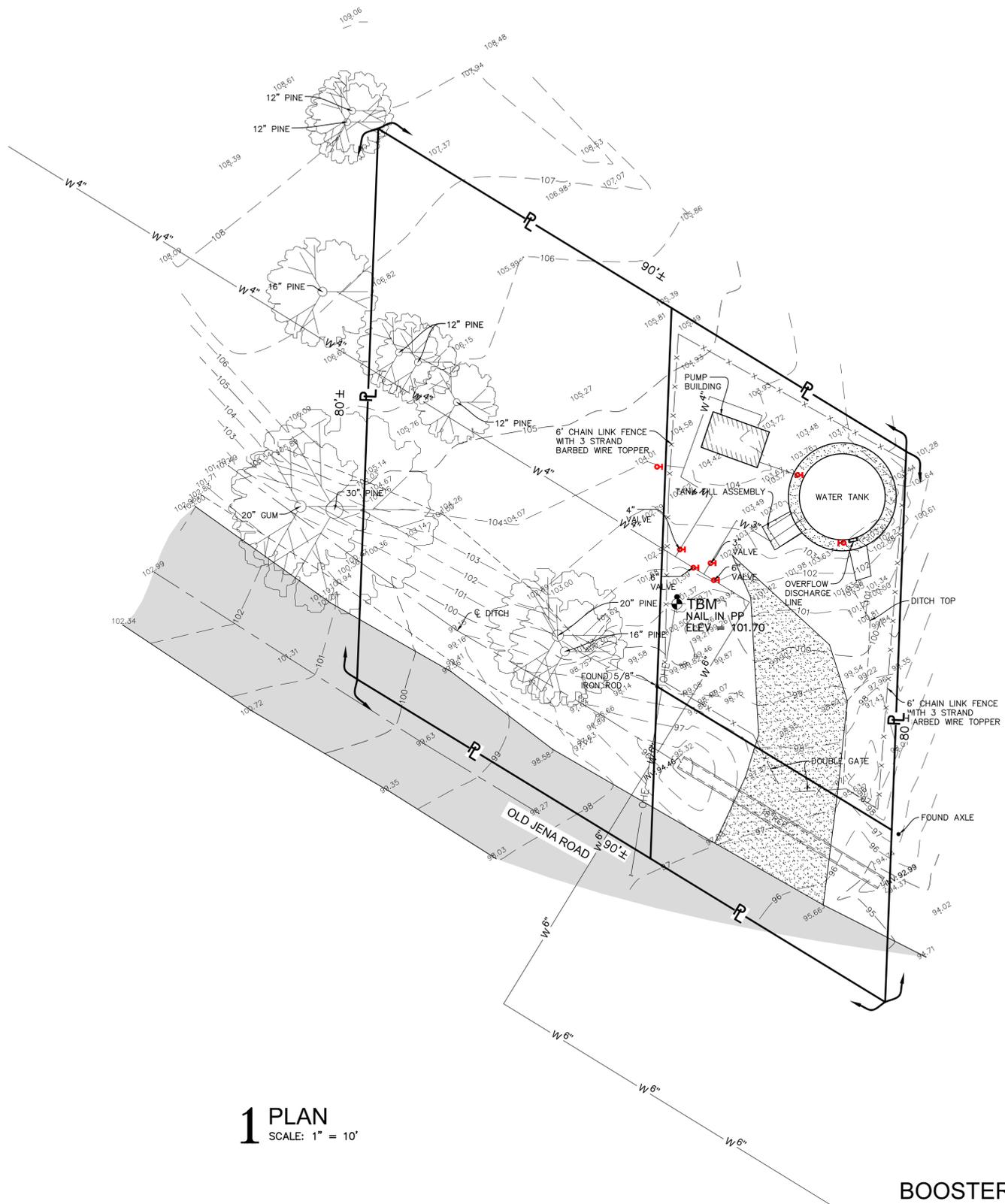
REVISION DATE
 CHECKED T.C.D.
 BOOK NO. N/A
 JOB NO. 12641-4

DWG. NO. 14645
 SCALE SHOWN

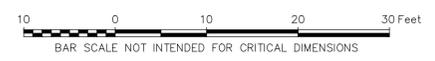
OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC. CONTRACT 4

SHEET NUMBER
24
 OF 59

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1 PLAN
 SCALE: 1" = 10'



BOOSTER STATION NO. 2 - TOPOGRAPHIC SURVEY



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REVISION	DATE
CHECKED	T.C.D
BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
25
 OF 59

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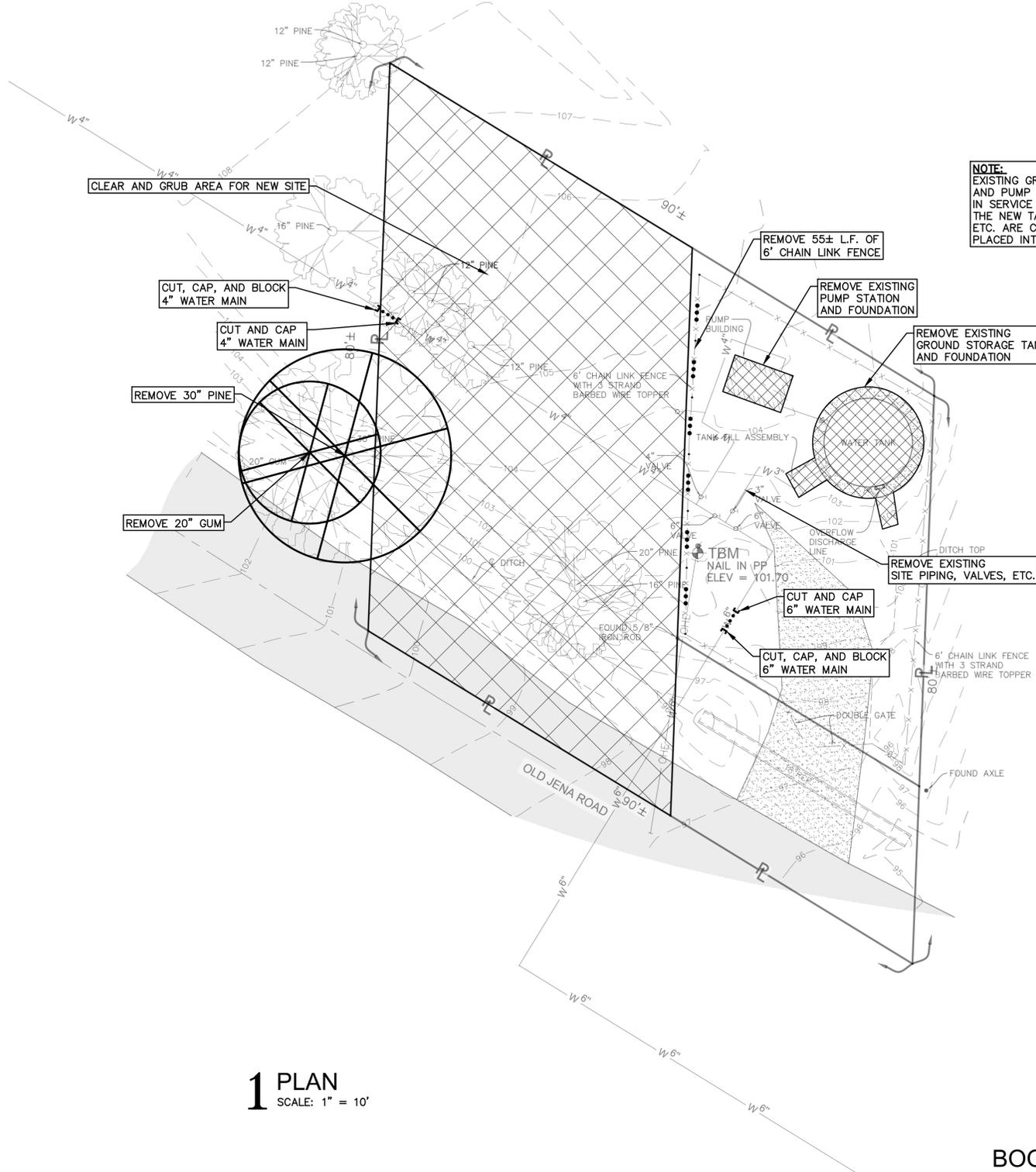
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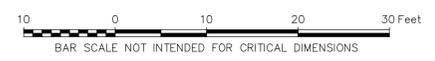
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NOTE:
 EXISTING GROUND STORAGE TANK AND PUMP STATION TO REMAIN IN SERVICE UNTIL SUCH TIME AS THE NEW TANK, PUMP STATION, ETC. ARE COMMISSIONED AND PLACED INTO SERVICE

1 PLAN
 SCALE: 1" = 10'



BOOSTER STATION NO. 2 - DEMOLITION PLAN



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 DATE: 10/2025

REVISION	DATE
CHECKED	T.C.D
BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
26
 OF 59

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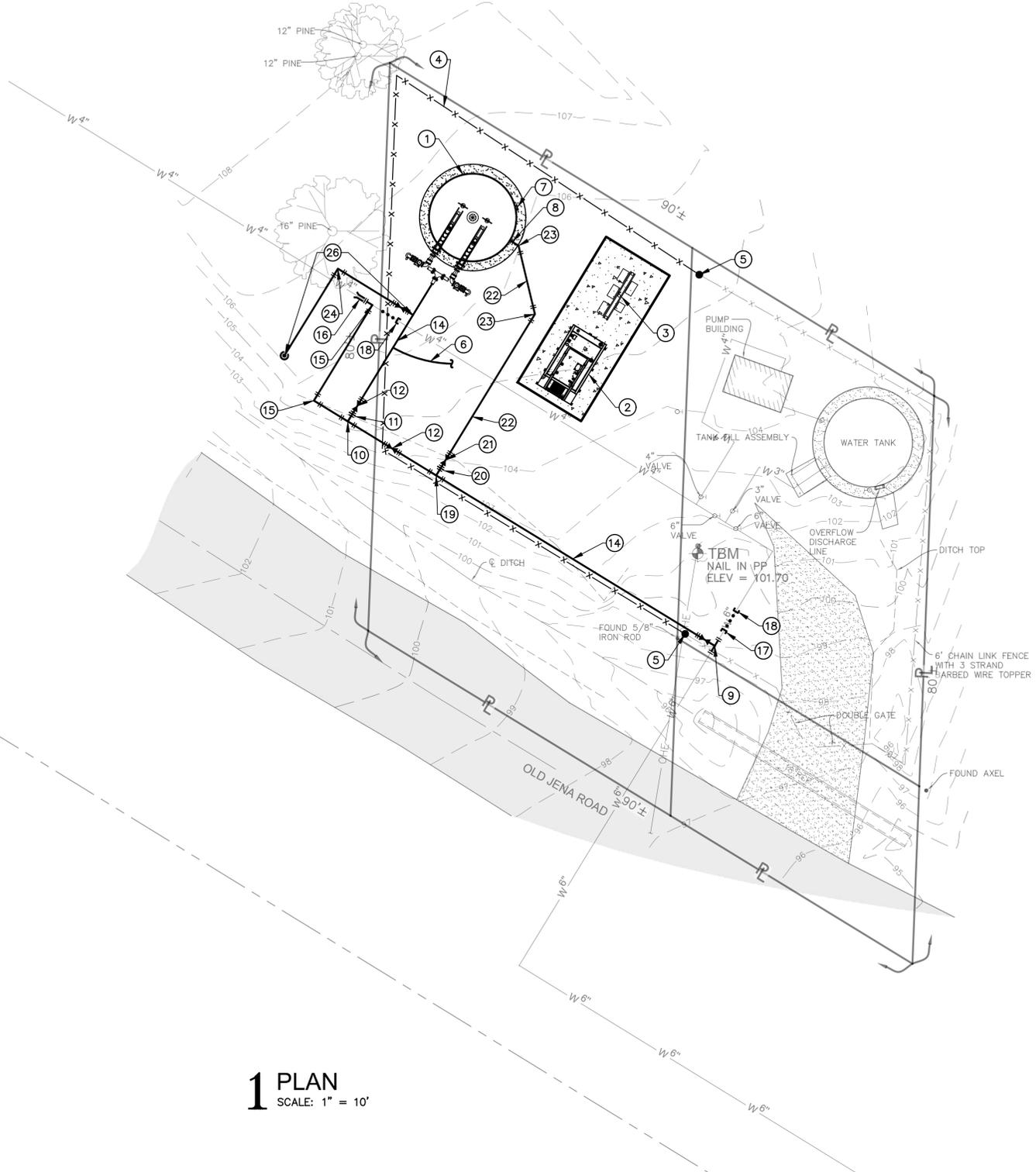
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2 LEGEND

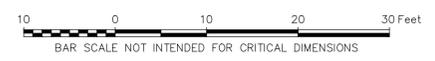
	EXISTING CONTOUR
	OVERHEAD ELECTRIC & TELEVISION LINE
	OVERHEAD ELECTRIC LINE
	WATER LINE
	FENCE LINE (TYPE & SIZE AS INDICATED)
	RIGHT-OF-WAY
	UTILITY POLE
	WATER LINE SHUT OFF VALVE
	INVERT
	CORRUGATED METAL PIPE
	ASPHALT SURFACE
	GRAVEL SURFACE
	CONCRETE SURFACE



1 PLAN
SCALE: 1" = 10'

3 WORK KEY

1	14,000 GALLON GROUND STORAGE TANK (RE: SHEETS 40-43)
2	30 kW DIESEL GEN SET AND FOUNDATION (RE: SHEET 44)
3	ELECTRICAL CONTROL RACK (RE: SHEET 45)
4	6' CHAIN LINK FENCE (80 L.F.±) (RE: SHEET 56)
5	CONNECT TO EXISTING FENCE (RE: 3/56)
6	SERVICE SADDLE & CORP. STOP FOR 3/4" PE TUBING TO PRESSURE TRANSDUCER/SENSOR ON CONTROL RACK - SYSTEM PRESSURE (RE: 3/43)
7	4" SHELL NOZZLE W/ 3/4" TAP FOR PRESSURE TRANSDUCER/SENSOR - TANK LEVEL (RE: 2/43)
8	TANK FILL ASSEMBLY (RE: 1/43)
9	6"x6"x4" D.I.M.J. TEE
10	4" FOSTER ADAPTOR
11	4" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
12	4" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
13	6"x6"x3" D.I.M.J. TEE
14	3" FOSTER ADAPTOR
15	3" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
16	3" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
17	3" D.I.M.J. 90° BEND
18	CUT, CAP, AND BLOCK EXISTING WATER MAIN
19	CUT AND CAP EXISTING WATER MAIN
20	6" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
21	CONNECT TO EXISTING WATER MAIN WITH 6" CUTTING-IN SLEEVE
22	6" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
23	3" D.I.M.J. 45° BEND
24	3" D.I.M.J. 90° BEND
25	CONNECT TO EXISTING WATER MAIN WITH 4" CUTTING-IN SLEEVE
26	FLUSHING ASSEMBLY (RE: 1/53)



BOOSTER STATION NO. 2 - SITE PLAN



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DATE: 10/2025

REVISION	DATE
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BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
CONTRACT 4

SHEET NUMBER
27
OF 59

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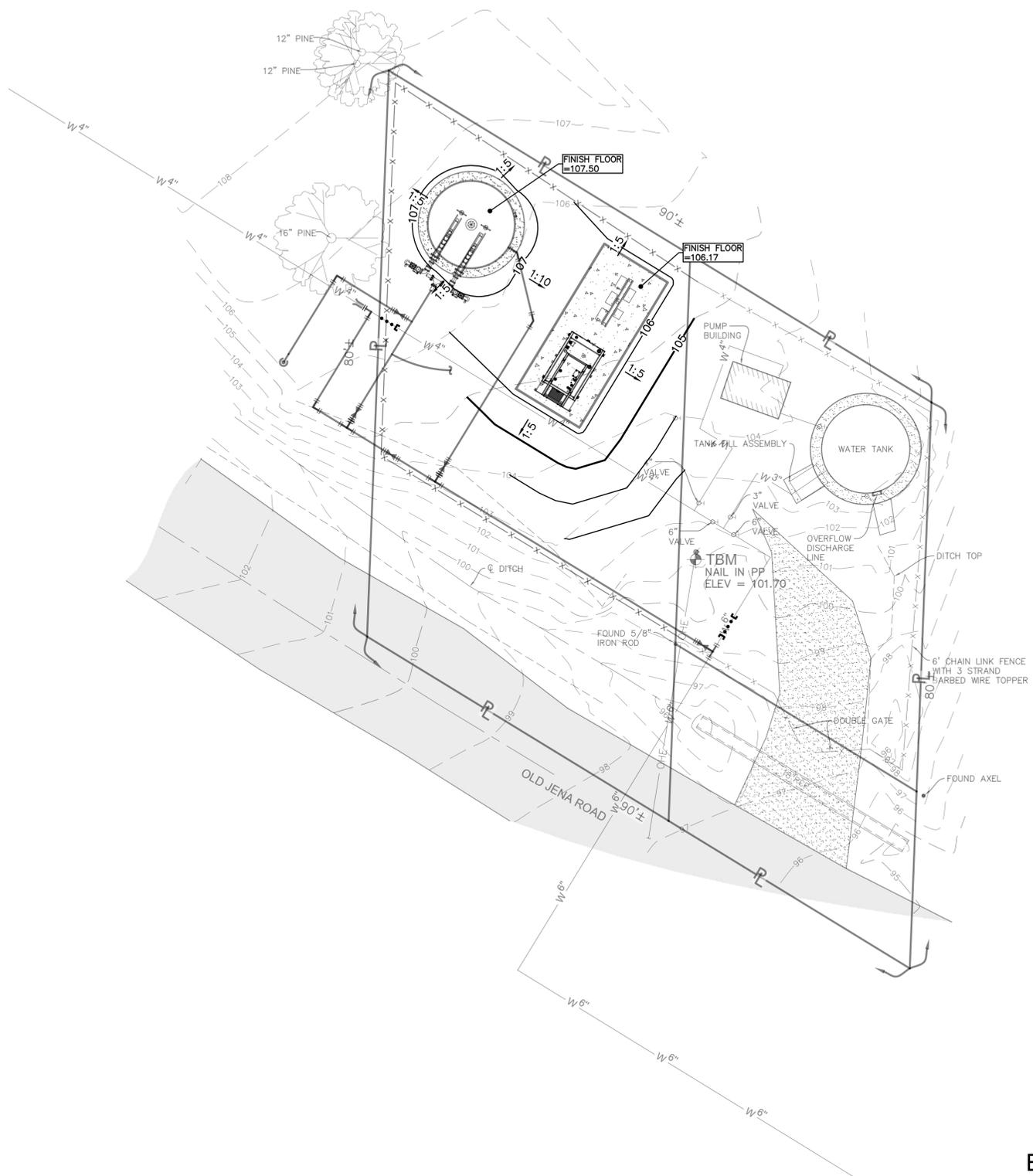
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2 GENERAL SCOPE OF WORK

1. CLEAR, GRUB, AND GRADE SITE TO THE LIMITS SHOWN ON THE DRAWING. STOCKPILE TOPSOIL AS REQUIRED FOR FINAL SOIL STABILIZATION.
2. DRESS GRADE ALL DISTURBED AREAS TO PROPOSED CONTOURS.
3. SEED AND FERTILIZE ALL DISTURBED AREAS.
4. INSTALL SILT FENCE AND IMPLEMENT EROSION CONTROL MEASURES.
5. CONSTRUCT BASE COURSE AND AGGREGATE ACCESS DRIVE.

3 GENERAL NOTES

- A. THE LIST OF ITEMS SHOWN UNDER GENERAL SCOPE OF WORK IS NOT INTENDED TO BE A CHRONOLOGICAL SCHEDULE OR A COMPREHENSIVE LIST OF REQUIRED WORK ITEMS.
- B. THE AREA WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CONSTRUCTED TRUE TO GRADE, SHAPED TO DRAIN AND SHALL BE MAINTAINED FREE OF TRASH AND DEBRIS UNTIL FINAL INSPECTION HAS BEEN COMPLETED AND THE WORK HAS BEEN ACCEPTED.
- C. FILLING & GRADING WORK SHALL RESULT IN POSITIVE DRAINAGE AND IN A SURFACE FINISH SUITABLE FOR MOWING.



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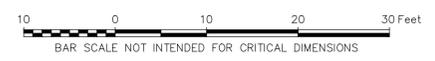
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DWG. NO.	14645
SCALE	SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
28
 OF 59



BOOSTER STATION NO. 2 - GRADING PLAN

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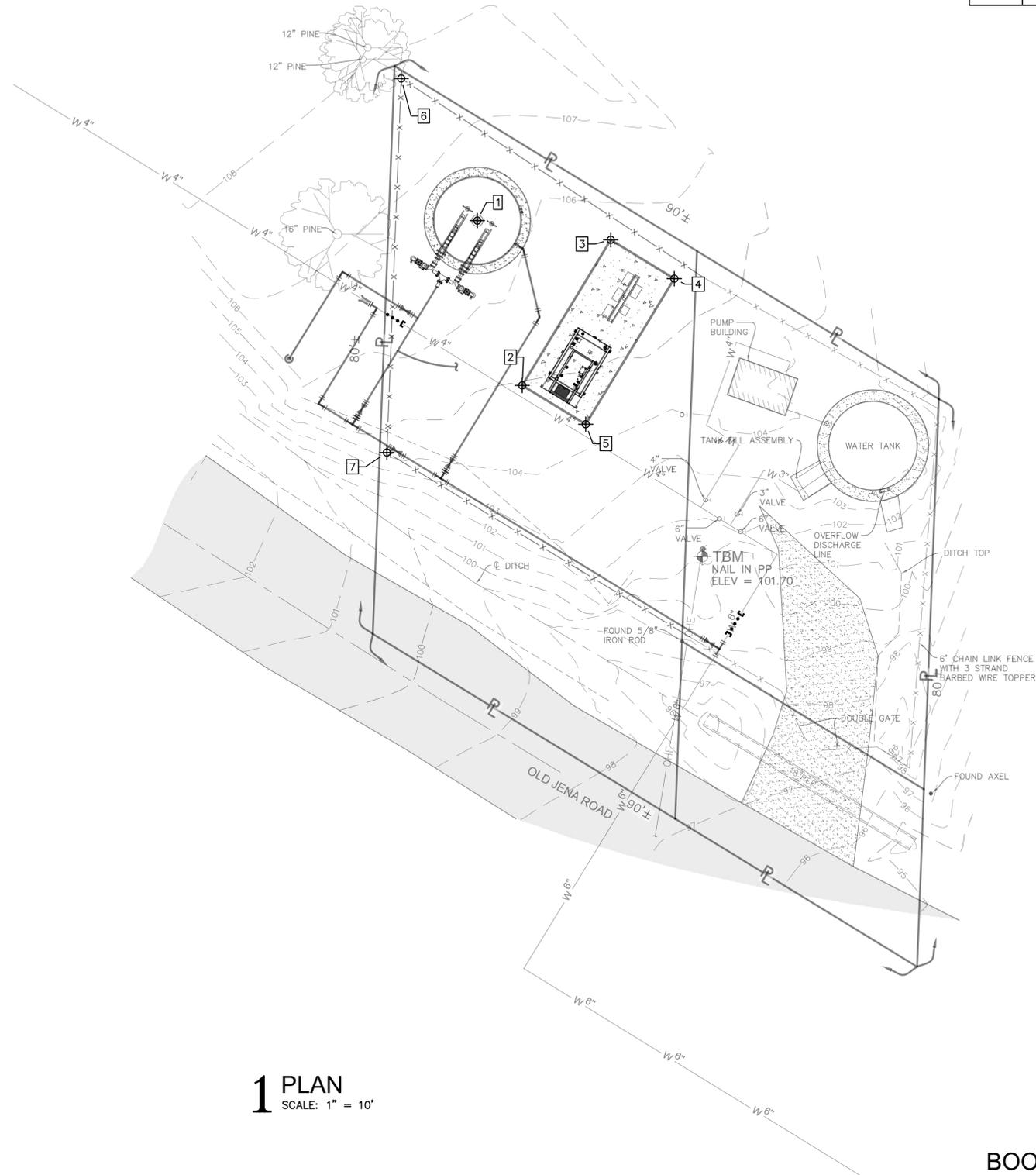
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COORDINATE POINTS					
Point #	Northing	Easting	Latitude	Longitude	Description
1	440581.00	3447156.05	N031° 42' 36.18"	W091° 57' 54.49"	GROUND STORAGE TANK
2	440557.80	3447162.40	N031° 42' 35.95"	W091° 57' 54.41"	GENERATOR
3	440578.29	3447174.90	N031° 42' 36.15"	W091° 57' 54.27"	GENERATOR
4	440572.83	3447183.86	N031° 42' 36.10"	W091° 57' 54.16"	GENERATOR
5	440552.34	3447171.36	N031° 42' 35.90"	W091° 57' 54.31"	GENERATOR
6	440601.02	3447145.31	N031° 42' 36.38"	W091° 57' 54.61"	FENCE
7	440548.35	3447143.29	N031° 42' 35.86"	W091° 57' 54.64"	FENCE



1 PLAN
 SCALE: 1" = 10'

BOOSTER STATION NO. 2 - COORDINATE PLAN



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 SCALE SHOWN

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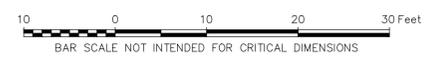


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1 PLAN
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BOOSTER STATION NO. 3 - TOPOGRAPHIC SURVEY



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 OF 59

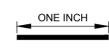
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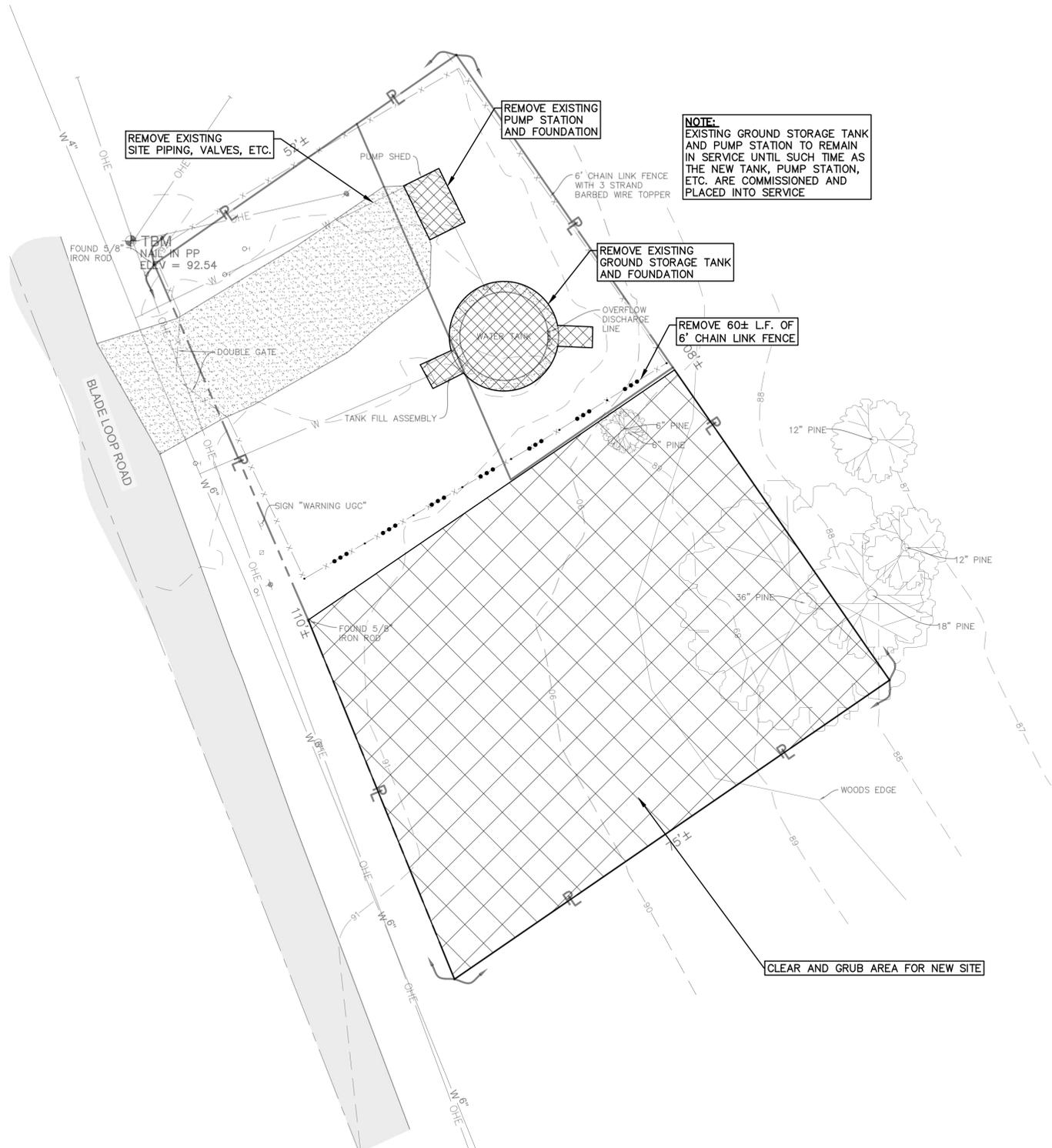
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SCALE NOTE
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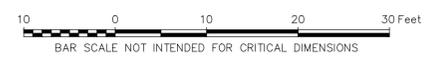


1 PLAN
 SCALE: 1" = 10'

NOTE:
 EXISTING GROUND STORAGE TANK AND PUMP STATION TO REMAIN IN SERVICE UNTIL SUCH TIME AS THE NEW TANK, PUMP STATION, ETC. ARE COMMISSIONED AND PLACED INTO SERVICE

REMOVE 60± L.F. OF 6" CHAIN LINK FENCE

CLEAR AND GRUB AREA FOR NEW SITE



BOOSTER STATION NO. 3 - DEMOLITION PLAN



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JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
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 OF 59

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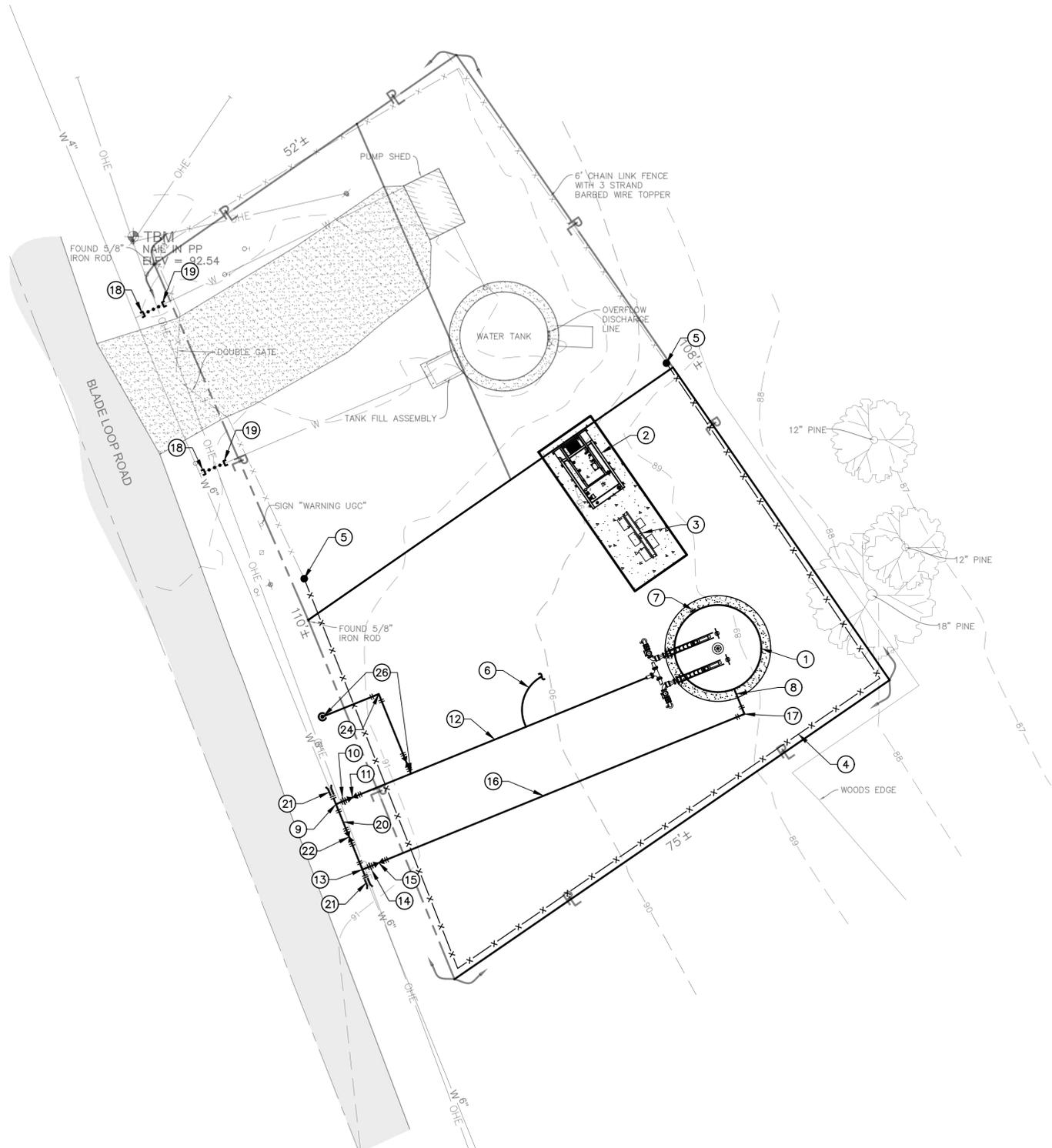
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2 LEGEND

- 74 EXISTING CONTOUR
- OHE, TV OVERHEAD ELECTRIC & TELEVISION LINE
- OHE OVERHEAD ELECTRIC LINE
- W WATER LINE
- FENCE LINE (TYPE & SIZE AS INDICATED)
- RIGHT-OF-WAY
- UTILITY POLE
- OH WATER LINE SHUT OFF VALVE
- INV. INVERT
- CMP CORRUGATED METAL PIPE
- ASPHALT SURFACE
- GRAVEL SURFACE
- CONCRETE SURFACE



1 PLAN
SCALE: 1" = 10'

3 WORK KEY

- 1 14,000 GALLON GROUND STORAGE TANK (RE: SHEETS 40-43)
- 2 30 kW DIESEL GEN SET AND FOUNDATION (RE: SHEET 44)
- 3 ELECTRICAL CONTROL RACK (RE: SHEET 45)
- 4 6' CHAIN LINK FENCE (80 L.F.±) (RE: SHEET 56)
- 5 CONNECT TO EXISTING FENCE (RE: 3/56)
- 6 SERVICE SADDLE & CORP. STOP FOR 3/4" PE TUBING TO PRESSURE TRANSDUCER/SENSOR ON CONTROL RACK - SYSTEM PRESSURE (RE: 3/43)
- 7 4" SHELL NOZZLE W/ 3/4" TAP FOR PRESSURE TRANSDUCER/SENSOR - TANK LEVEL (RE: 2/43)
- 8 TANK FILL ASSEMBLY (RE: 1/43)
- 9 6"x6"x4" D.I.M.J. TEE
- 10 4" FOSTER ADAPTOR
- 11 4" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
- 12 4" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
- 13 6"x6"x3" D.I.M.J. TEE
- 14 3" FOSTER ADAPTOR
- 15 3" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
- 16 3" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
- 17 3" D.I.M.J. 90° BEND
- 18 CUT, CAP, AND BLOCK EXISTING WATER MAIN
- 19 CUT AND CAP EXISTING WATER MAIN
- 20 6" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
- 21 CONNECT TO EXISTING WATER MAIN WITH 6" CUTTING-IN SLEEVE
- 22 6" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
- 23 3" D.I.M.J. 45° BEND
- 24 3" D.I.M.J. 90° BEND
- 25 CONNECT TO EXISTING WATER MAIN WITH 4" CUTTING-IN SLEEVE
- 26 FLUSHING ASSEMBLY (RE: 1/53)



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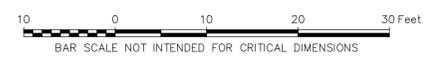
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JOB NO. 12641-4

DWG. NO. 14645
SCALE SHOWN

OWNER NEBO WATER SYSTEM, INC.
PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
CONTRACT 4

SHEET NUMBER
32
OF 59



BOOSTER STATION NO. 3 - SITE PLAN

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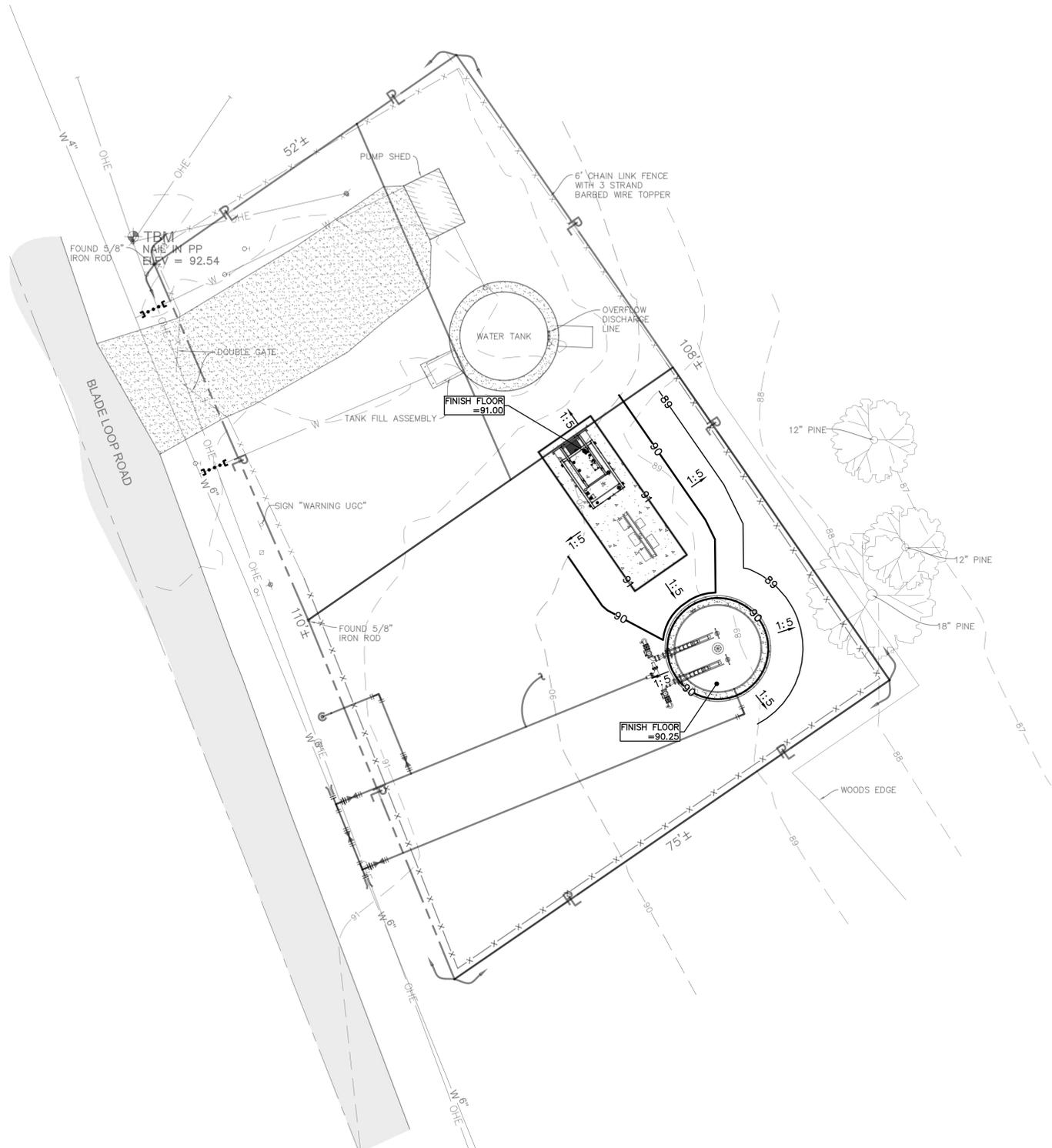
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1 PLAN
 SCALE: 1" = 10'

2 GENERAL SCOPE OF WORK

1. CLEAR, GRUB, AND GRADE SITE TO THE LIMITS SHOWN ON THE DRAWING. STOCKPILE TOPSOIL AS REQUIRED FOR FINAL SOIL STABILIZATION.
2. DRESS GRADE ALL DISTURBED AREAS TO PROPOSED CONTOURS.
3. SEED AND FERTILIZE ALL DISTURBED AREAS.
4. INSTALL SILT FENCE AND IMPLEMENT EROSION CONTROL MEASURES.
5. CONSTRUCT BASE COURSE AND AGGREGATE ACCESS DRIVE.

3 GENERAL NOTES

- A. THE LIST OF ITEMS SHOWN UNDER GENERAL SCOPE OF WORK IS NOT INTENDED TO BE A CHRONOLOGICAL SCHEDULE OR A COMPREHENSIVE LIST OF REQUIRED WORK ITEMS.
- B. THE AREA WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CONSTRUCTED TRUE TO GRADE, SHAPED TO DRAIN AND SHALL BE MAINTAINED FREE OF TRASH AND DEBRIS UNTIL FINAL INSPECTION HAS BEEN COMPLETED AND THE WORK HAS BEEN ACCEPTED.
- C. FILLING & GRADING WORK SHALL RESULT IN POSITIVE DRAINAGE AND IN A SURFACE FINISH SUITABLE FOR MOWING.



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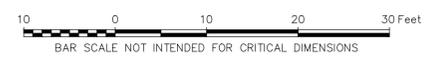
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DWG. NO. 14645
 SCALE SHOWN

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 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
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 OF 59



BOOSTER STATION NO. 3 - GRADING PLAN

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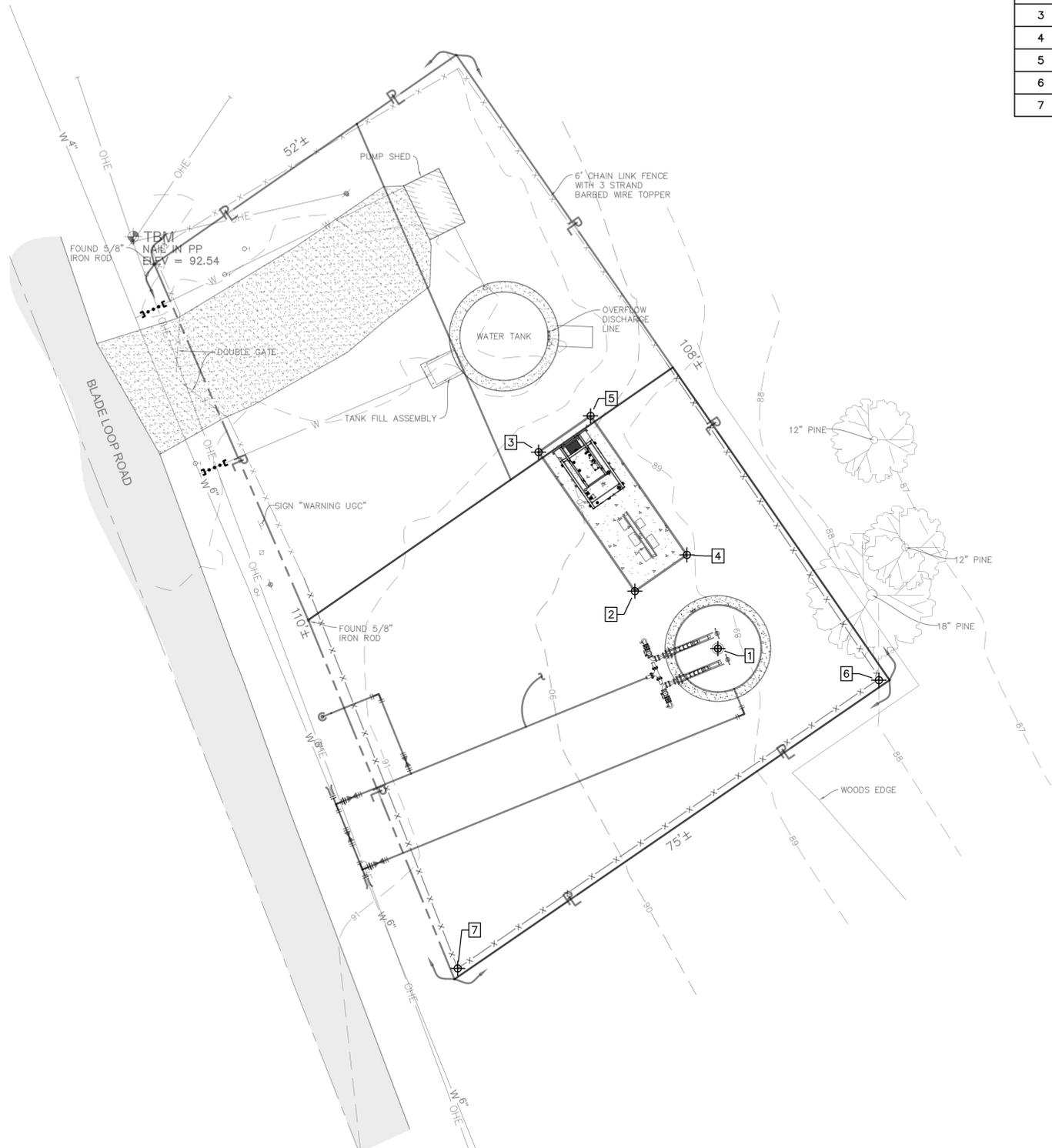
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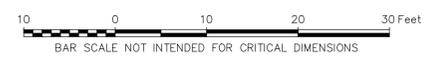
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1 PLAN
 SCALE: 1" = 10'

COORDINATE POINTS					
Point #	Northing	Easting	Latitude	Longitude	Description
1	410207.03	3426058.46	N031° 37' 36.54"	W092° 02' 00.24"	GROUND STORAGE TANK'
2	410215.17	3426046.68	N031° 37' 36.63"	W092° 02' 00.38"	GENERATOR
3	410234.88	3426032.98	N031° 37' 36.82"	W092° 02' 00.54"	GENERATOR
4	410220.30	3426054.07	N031° 37' 36.68"	W092° 02' 00.29"	GENERATOR
5	410240.01	3426040.37	N031° 37' 36.87"	W092° 02' 00.45"	GENERATOR
6	410202.54	3426081.35	N031° 37' 36.50"	W092° 01' 59.98"	FENCE
7	410161.66	3426021.49	N031° 37' 36.10"	W092° 02' 00.67"	FENCE



BOOSTER STATION NO. 3 - COORDINATE PLAN



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DWG. NO. 14645
 SCALE SHOWN

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 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
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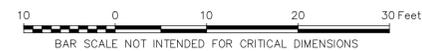


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1 PLAN
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BOOSTER STATION NO. 4 - TOPOGRAPHIC SURVEY



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 CONTRACT 4

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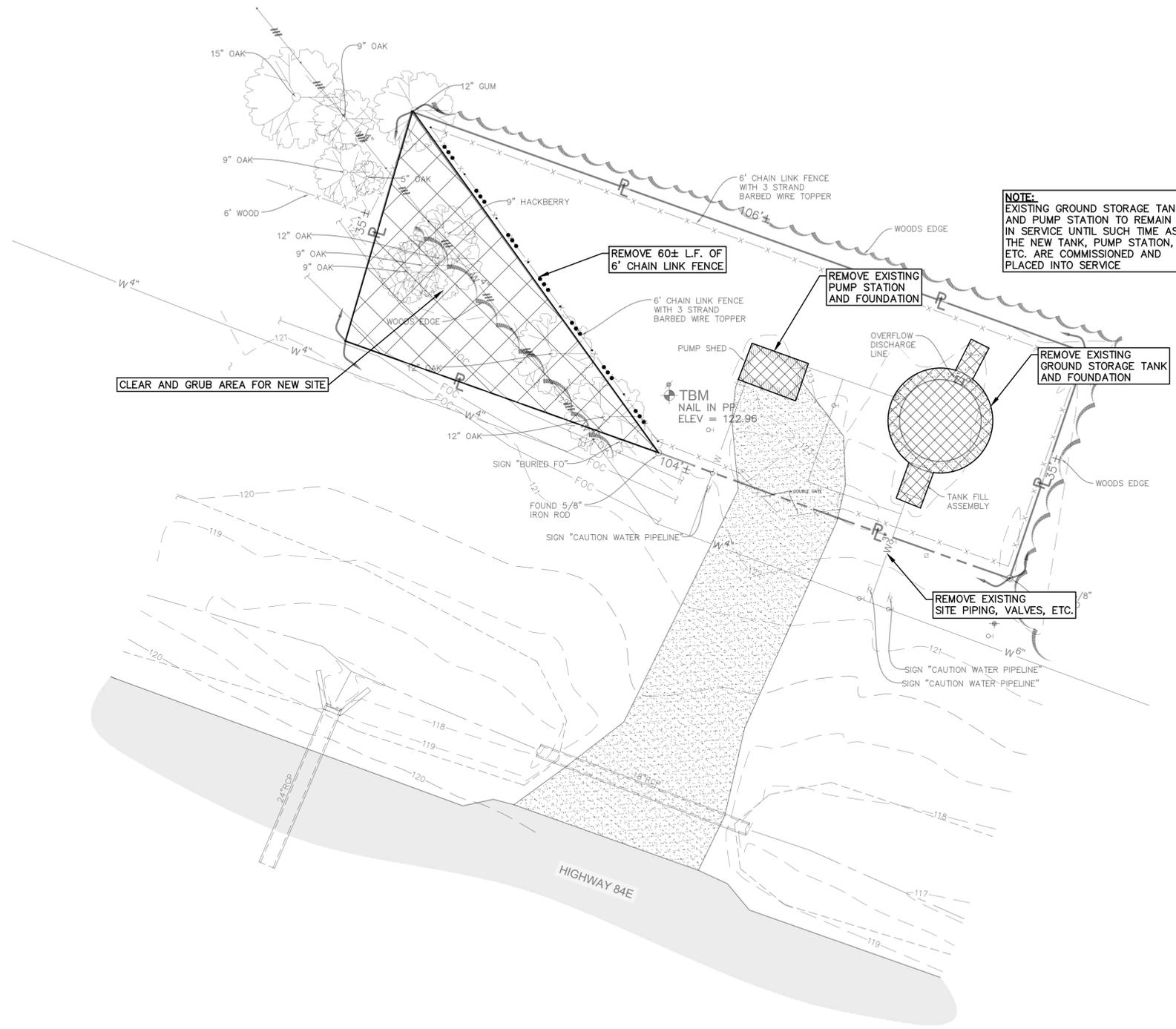
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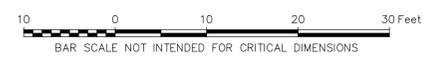


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1 PLAN
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BOOSTER STATION NO. 4 - DEMOLITION PLAN



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JOB NO.	12641-4

DWG. NO. 14645
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OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
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 OF 59

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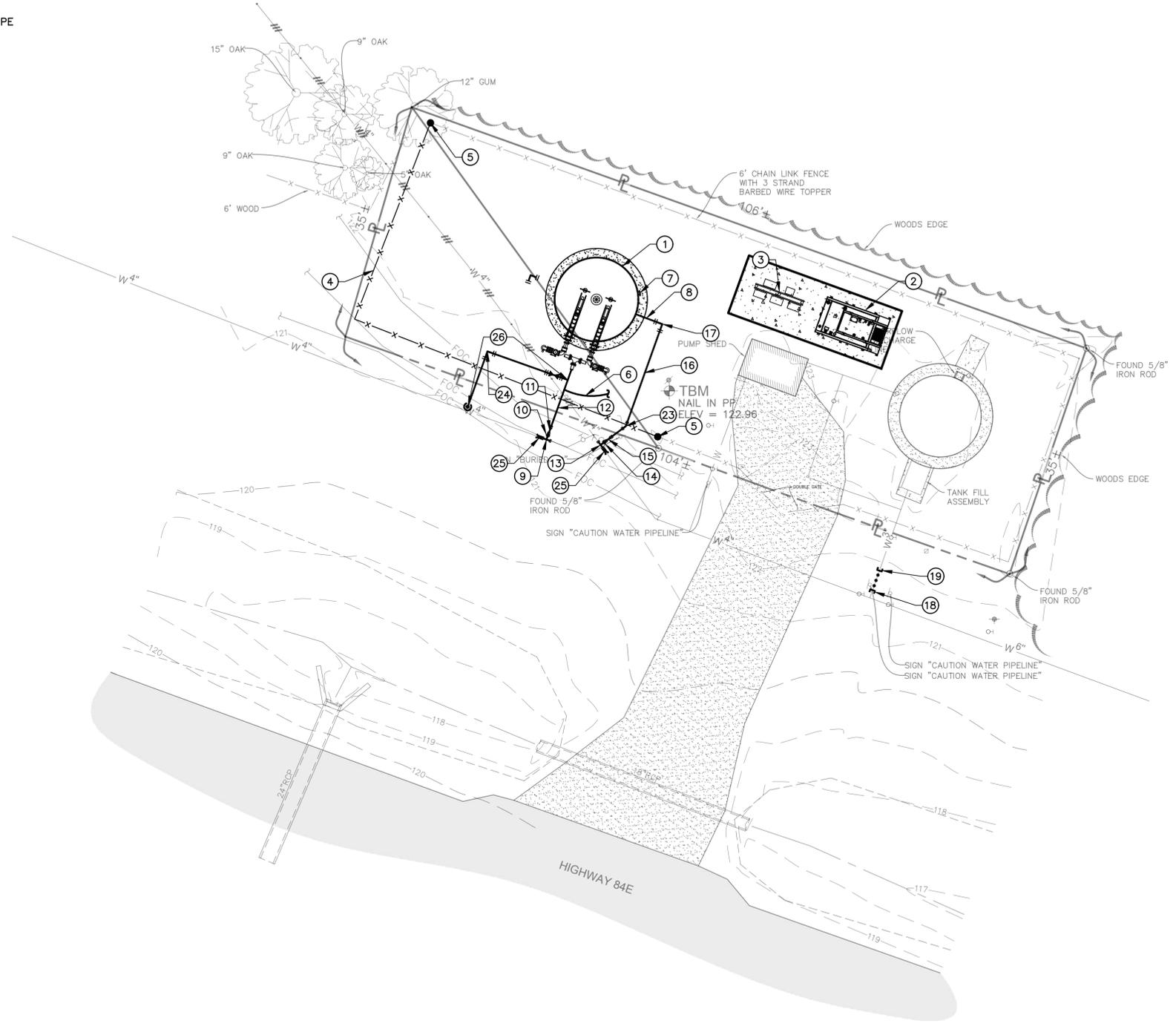
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2 LEGEND

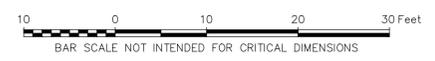
	EXISTING CONTOUR
	OVERHEAD ELECTRIC & TELEVISION LINE
	OVERHEAD ELECTRIC LINE
	WATER LINE
	FENCE LINE (TYPE & SIZE AS INDICATED)
	RIGHT-OF-WAY
	UTILITY POLE
	WATER LINE SHUT OFF VALVE
	INVERT
	CORRUGATED METAL PIPE
	ASPHALT SURFACE
	GRAVEL SURFACE
	CONCRETE SURFACE



1 PLAN
SCALE: 1" = 10'

3 WORK KEY

1	14,000 GALLON GROUND STORAGE TANK (RE: SHEETS 40-43)
2	30 kW DIESEL GEN SET AND FOUNDATION (RE: SHEET 44)
3	ELECTRICAL CONTROL RACK (RE: SHEET 45)
4	6' CHAIN LINK FENCE (80 L.F.±) (RE: SHEET 56)
5	CONNECT TO EXISTING FENCE (RE: 3/56)
6	SERVICE SADDLE & CORP. STOP FOR 3/4" PE TUBING TO PRESSURE TRANSDUCER/SENSOR ON CONTROL RACK - SYSTEM PRESSURE (RE: 3/43)
7	4" SHELL NOZZLE W/ 3/4" TAP FOR PRESSURE TRANSDUCER/SENSOR - TANK LEVEL (RE: 2/43)
8	TANK FILL ASSEMBLY (RE: 1/43)
9	6"x6"x4" D.I.M.J. TEE
10	4" FOSTER ADAPTOR
11	4" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
12	4" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
13	6"x6"x3" D.I.M.J. TEE
14	3" FOSTER ADAPTOR
15	3" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
16	3" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
17	3" D.I.M.J. 90° BEND
18	CUT, CAP, AND BLOCK EXISTING WATER MAIN
19	CUT AND CAP EXISTING WATER MAIN
20	6" PVC AWWA C900 DR18 WATER MAIN W/ METALLIC LOCATOR WIRE
21	CONNECT TO EXISTING WATER MAIN WITH 6" CUTTING-IN SLEEVE
22	6" D.I.M.J. GATE VALVE W/ C.I. VALVE BOX & CONCRETE PAD (RE: 1/51)
23	3" D.I.M.J. 45° BEND
24	3" D.I.M.J. 90° BEND
25	CONNECT TO EXISTING WATER MAIN WITH 4" CUTTING-IN SLEEVE
26	FLUSHING ASSEMBLY (RE: 1/53)



BOOSTER STATION NO. 4 - SITE PLAN



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DRAWN BY: P.A.E.
DATE: 10/2025

REVISION	DATE

CHECKED: T.C.D.
BOOK NO.: N/A
JOB NO.: 12641-4

DWG. NO.: 14645
SCALE: SHOWN

OWNER: NEBO WATER SYSTEM, INC.
PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
CONTRACT 4

SHEET NUMBER
37
OF 59

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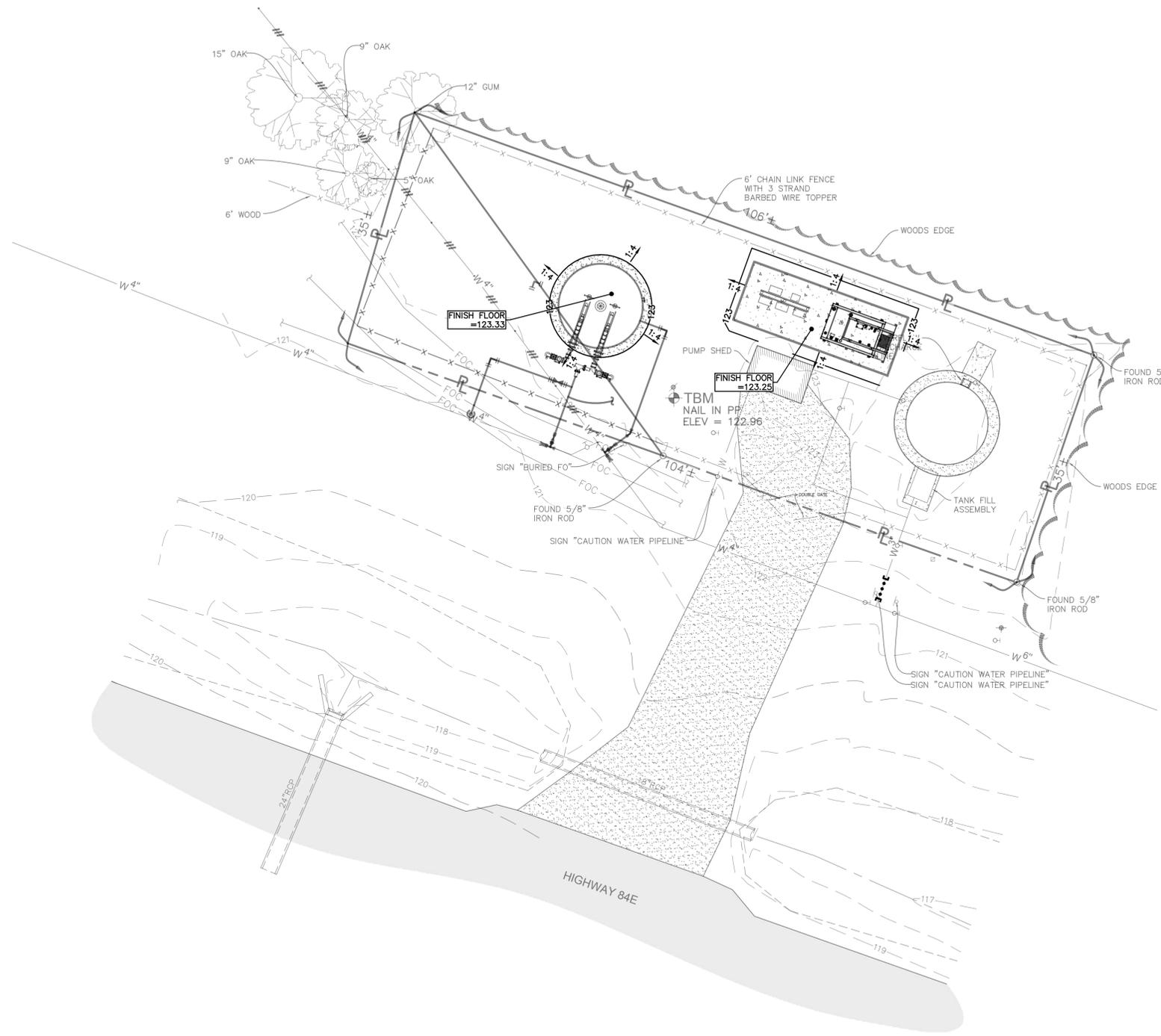
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1 PLAN
 SCALE: 1" = 10'

2 GENERAL SCOPE OF WORK

1. CLEAR, GRUB, AND GRADE SITE TO THE LIMITS SHOWN ON THE DRAWING. STOCKPILE TOPSOIL AS REQUIRED FOR FINAL SOIL STABILIZATION.
2. DRESS GRADE ALL DISTURBED AREAS TO PROPOSED CONTOURS.
3. SEED AND FERTILIZE ALL DISTURBED AREAS.
4. INSTALL SILT FENCE AND IMPLEMENT EROSION CONTROL MEASURES.
5. CONSTRUCT BASE COURSE AND AGGREGATE ACCESS DRIVE.

3 GENERAL NOTES

- A. THE LIST OF ITEMS SHOWN UNDER GENERAL SCOPE OF WORK IS NOT INTENDED TO BE A CHRONOLOGICAL SCHEDULE OR A COMPREHENSIVE LIST OF REQUIRED WORK ITEMS.
- B. THE AREA WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CONSTRUCTED TRUE TO GRADE, SHAPED TO DRAIN AND SHALL BE MAINTAINED FREE OF TRASH AND DEBRIS UNTIL FINAL INSPECTION HAS BEEN COMPLETED AND THE WORK HAS BEEN ACCEPTED.
- C. FILLING & GRADING WORK SHALL RESULT IN POSITIVE DRAINAGE AND IN A SURFACE FINISH SUITABLE FOR MOWING.



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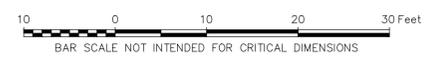
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DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
38
 OF 59



BOOSTER STATION NO. 4 - GRADING PLAN

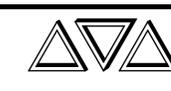
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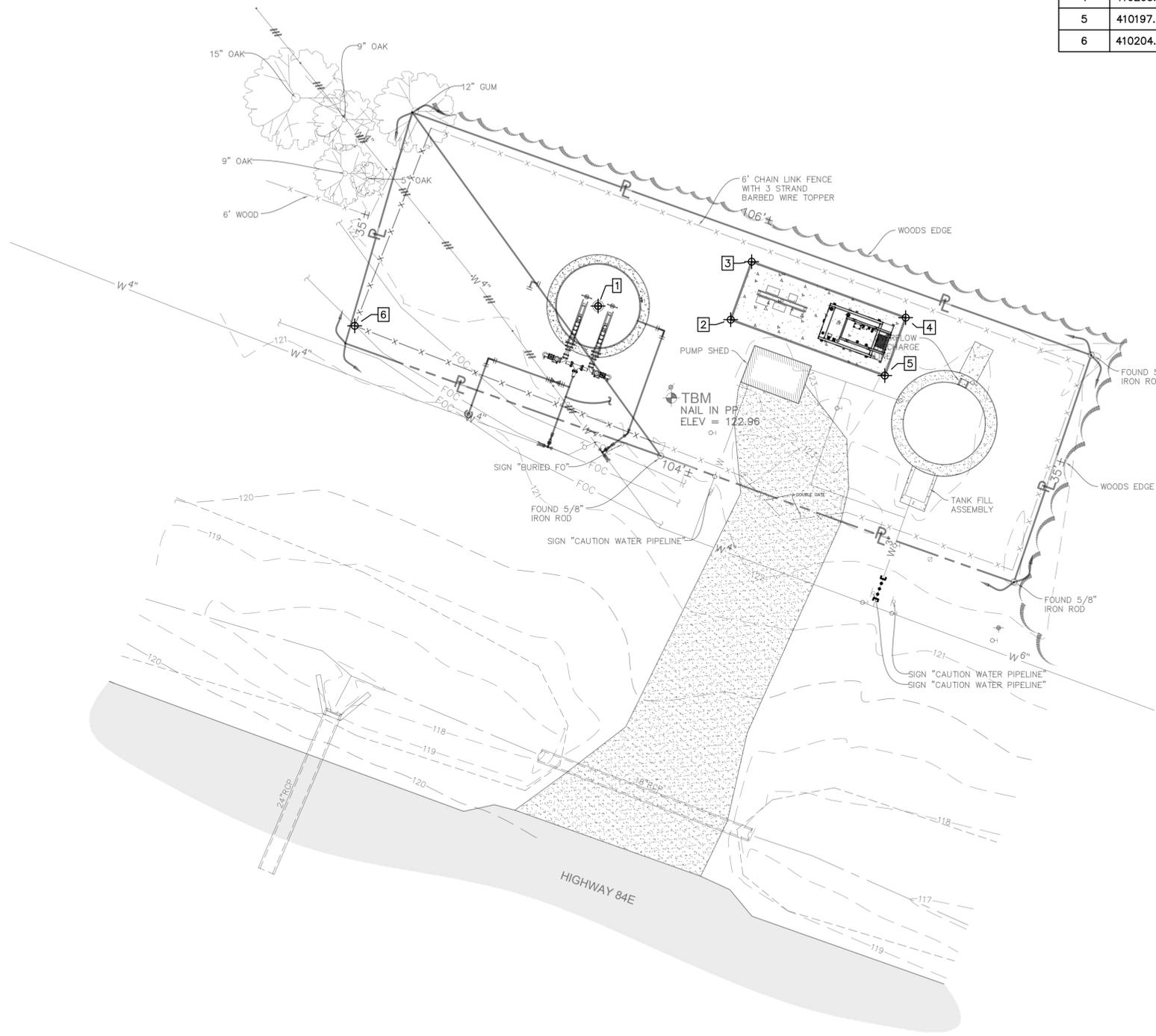
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JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER NEBO WATER SYSTEM, INC.
 PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
39
 OF 59

COORDINATE POINTS					
Point #	Northing	Easting	Latitude	Longitude	Description
1	410207.36	3421636.33	N031° 37' 36.73"	W092° 02' 51.39"	GROUND STORAGE TANK
2	410205.38	3421655.75	N031° 37' 36.71"	W092° 02' 51.17"	GENERATOR
3	410213.84	3421658.82	N031° 37' 36.80"	W092° 02' 51.13"	GENERATOR
4	410205.67	3421681.38	N031° 37' 36.71"	W092° 02' 50.87"	GENERATOR
5	410197.20	3421678.32	N031° 37' 36.63"	W092° 02' 50.91"	GENERATOR
6	410204.47	3421600.67	N031° 37' 36.71"	W092° 02' 51.80"	FENCE



1 PLAN
 SCALE: 1" = 10'



BOOSTER STATION NO. 4 - COORDINATE PLAN

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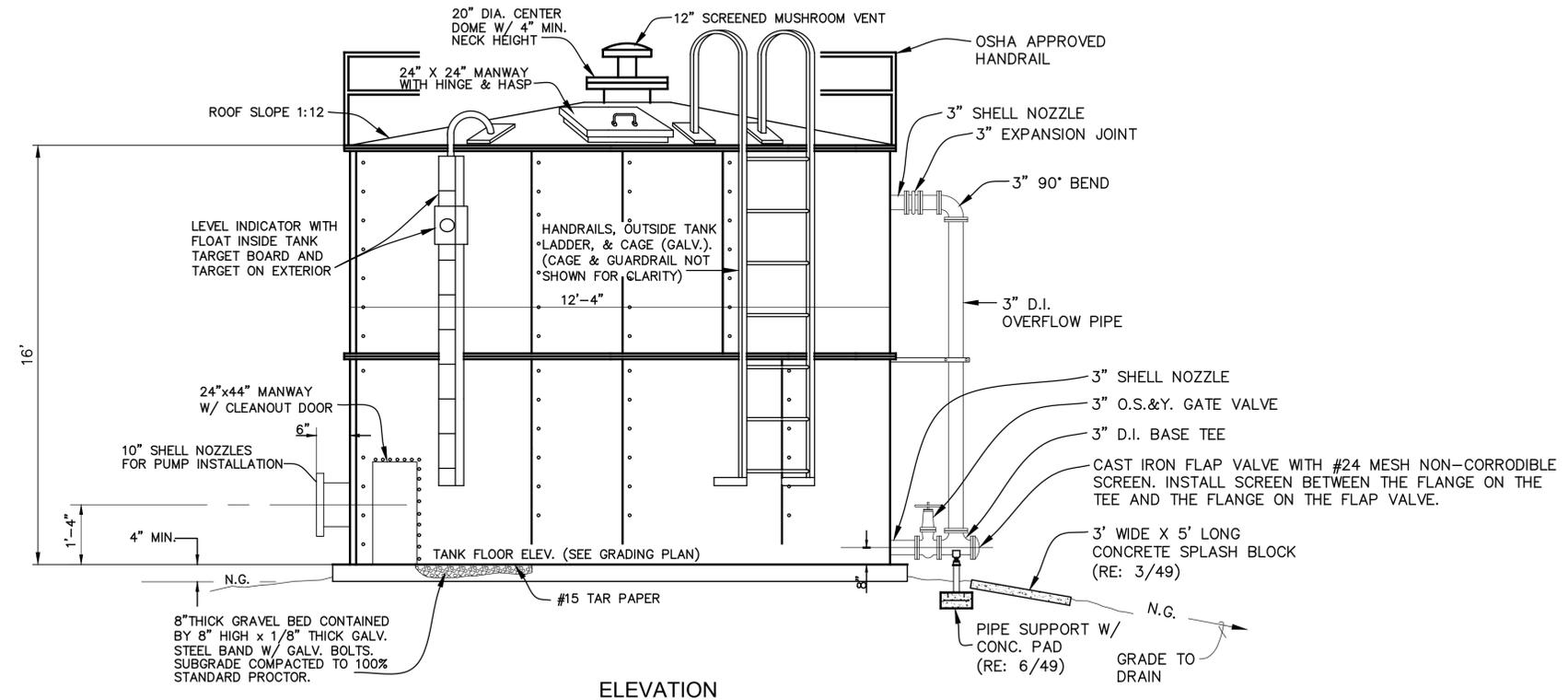
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1 GROUND STORAGE TANK
 (14,000 GALLON CAPACITY)
 N.T.S.

14,000 GALLON GROUND STORAGE TANK DETAILS



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DWG. NO. 14645
 SCALE SHOWN

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 CONTRACT 4

SHEET NUMBER
41
OF 59

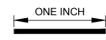
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 CONTRACT 4

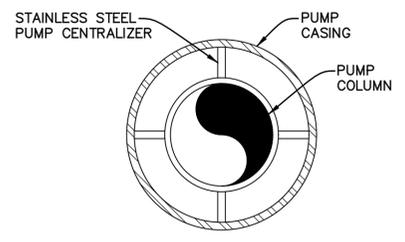
SHEET NUMBER
42
 OF 59

NO.	DESCRIPTION
1	10" SHELL NOZZLE
2	8" PUMP CASING W/8" x 10" ADAPTER FLANGE
3	3" PUMP DISCHARGE
4	3" D.I. FLANGED 90° BEND
5	3" D.I. FLANGED x PLAIN END PIPE
6	4" x 3" D.I.M.J. 90° REDUCING BEND W/ M.J. RESTRAINT DEVICE
7	4" P.V.C. PIPE
8	PRESSURE GAUGE ASSEMBLY
9	SUBMERSIBLE PUMP (RE: 5/42)
10	SUBMERSIBLE ELECTRIC MOTOR (RE: 5/42)
11	8" LUG STYLE BUTTERFLY VALVE
12	ADJUSTABLE PIPE SUPPORT
13	VALVE ACTUATOR EXTENSION
14	VALVE ACTUATOR (RE: 9/48)
15	LEFT BLANK INTENTIONALLY
16	WIRING AND CONDUIT FOR PUMPS
17	DUPLEX RECEPTACLE WITH WEATHERPROOF COVER
18	3" EXPANSION JOINT
19	3" CHECK VALVE
20	3" GATE VALVE
21	4" D.I.M.J. TEE
22	4" D.I.P.
23	GROUND STORAGE RESERVOIR (14,000 GALLONS)
24	CONCRETE PAD

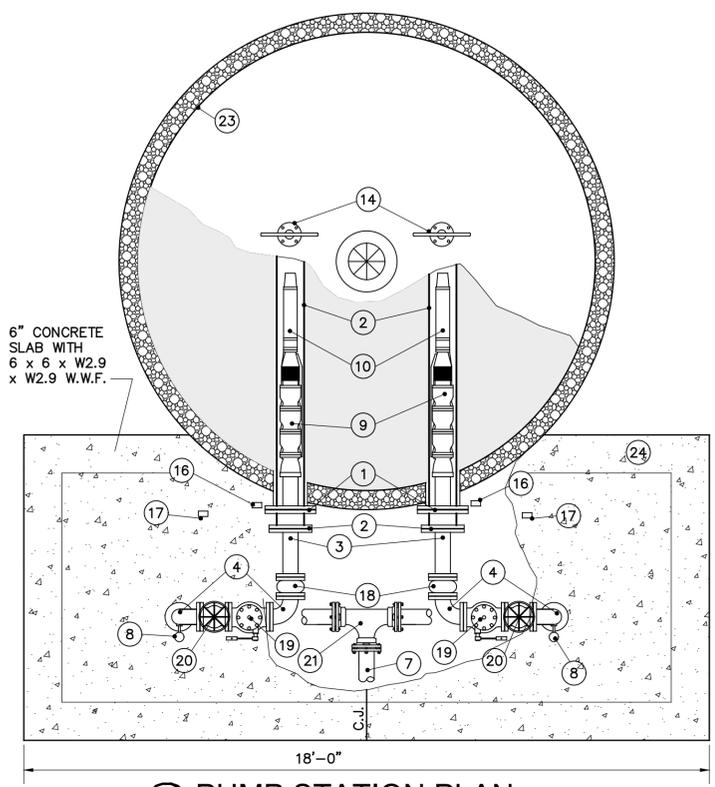
3 PIPING AND EQUIPMENT TABLE

5 PUMP AND MOTOR SCHEDULE

	MOTOR HP	HEAD (PSI)	CAPACITY (GPM)	PLAN SHEET NO.
BOOSTER STATION 2	90 GPM	85 PSI	7.5 HP	SHEETS 25-29
BOOSTER STATION 3	50 GPM	80 PSI	5 HP	SHEETS 30-34
BOOSTER STATION 4	50 GPM	80 PSI	5 HP	SHEETS 35-39

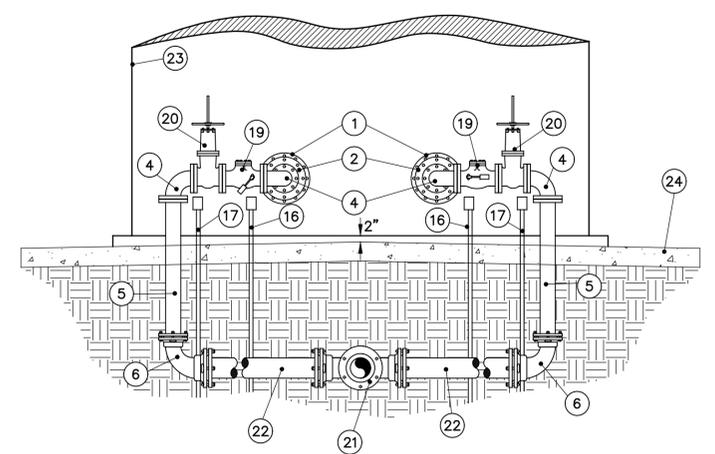


6 SECTION A-A
N.T.S.

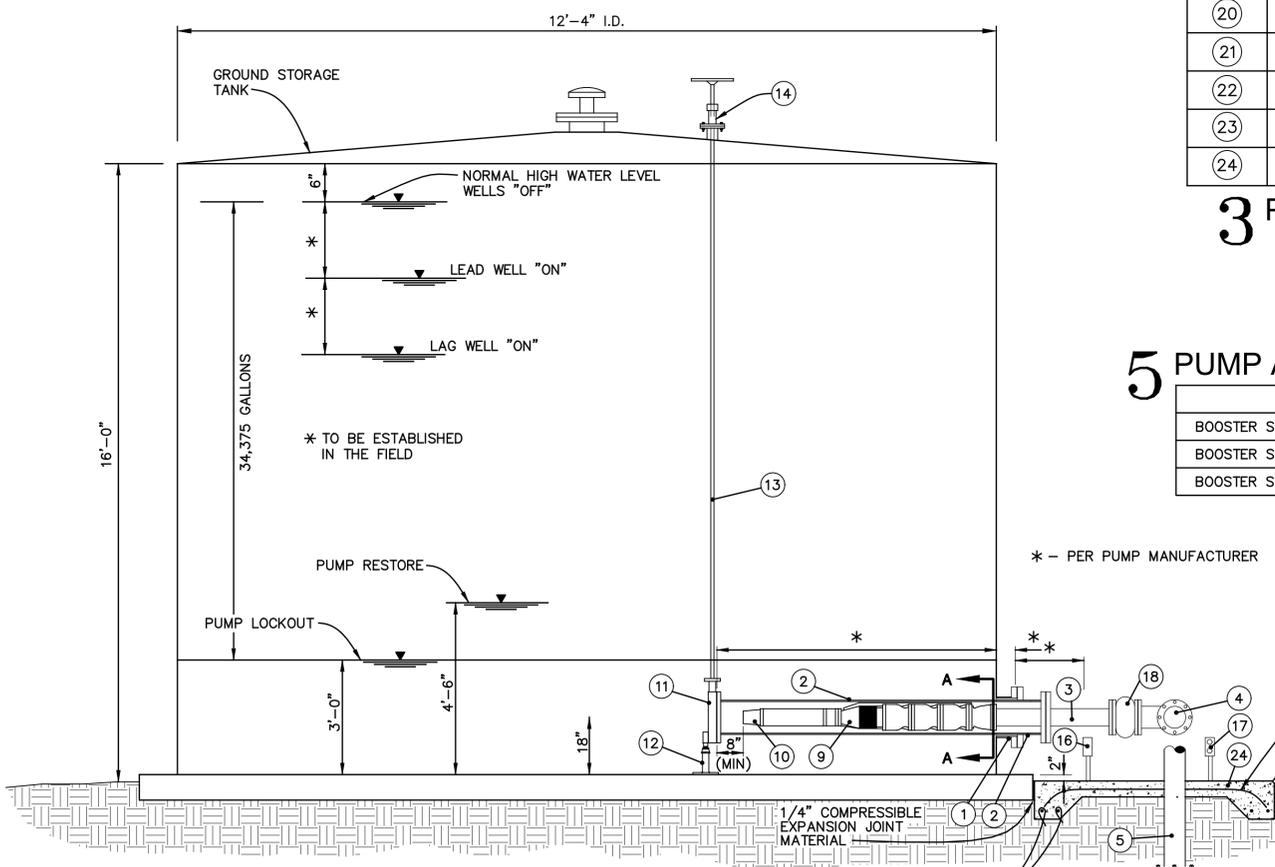


2 PUMP STATION PLAN
N.T.S.

NOTE:
SEE GRADING PLANS FOR ELEVATIONS

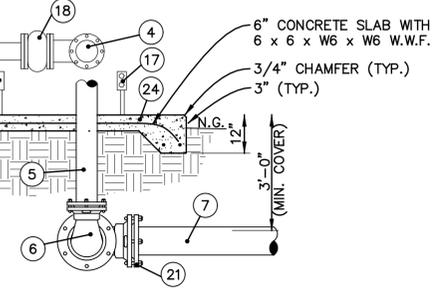


1 PUMP STATION ELEVATION
N.T.S.



4 PUMP INSTALLATION DETAILS
N.T.S.

* - PER PUMP MANUFACTURER



BOOSTER PUMP AND DISCHARGE ASSEMBLY DETAILS

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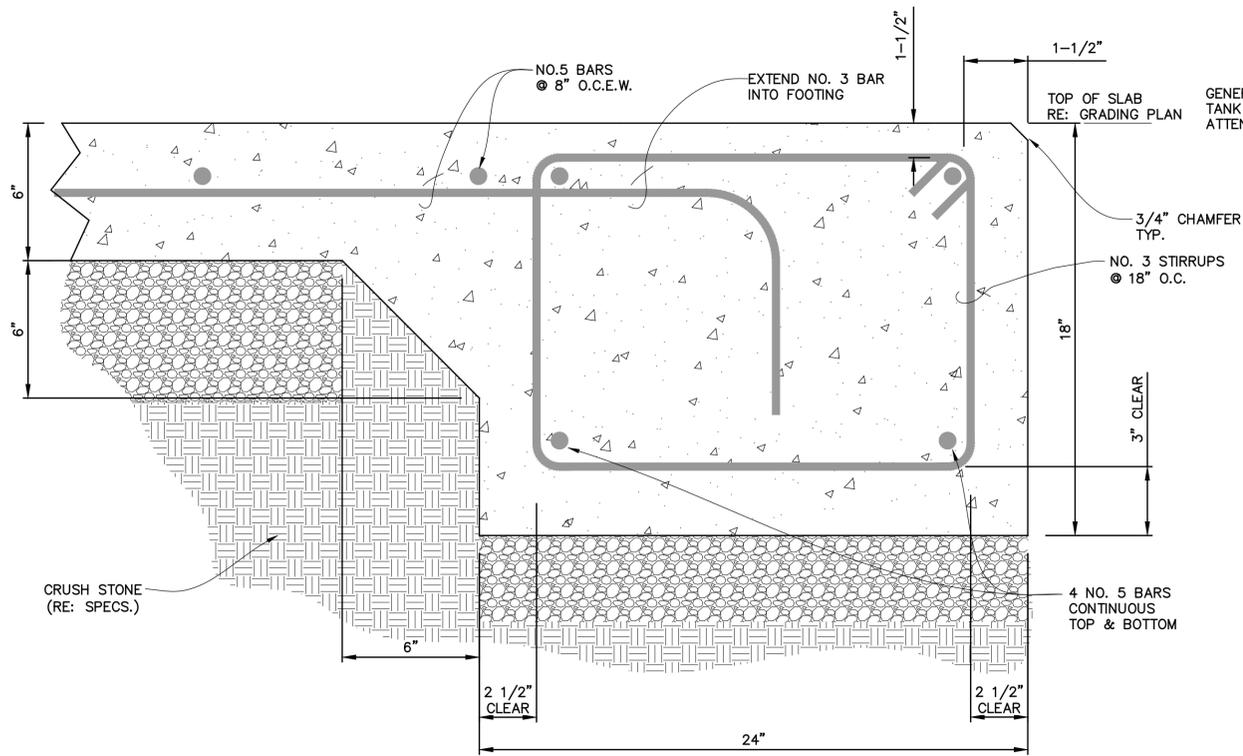
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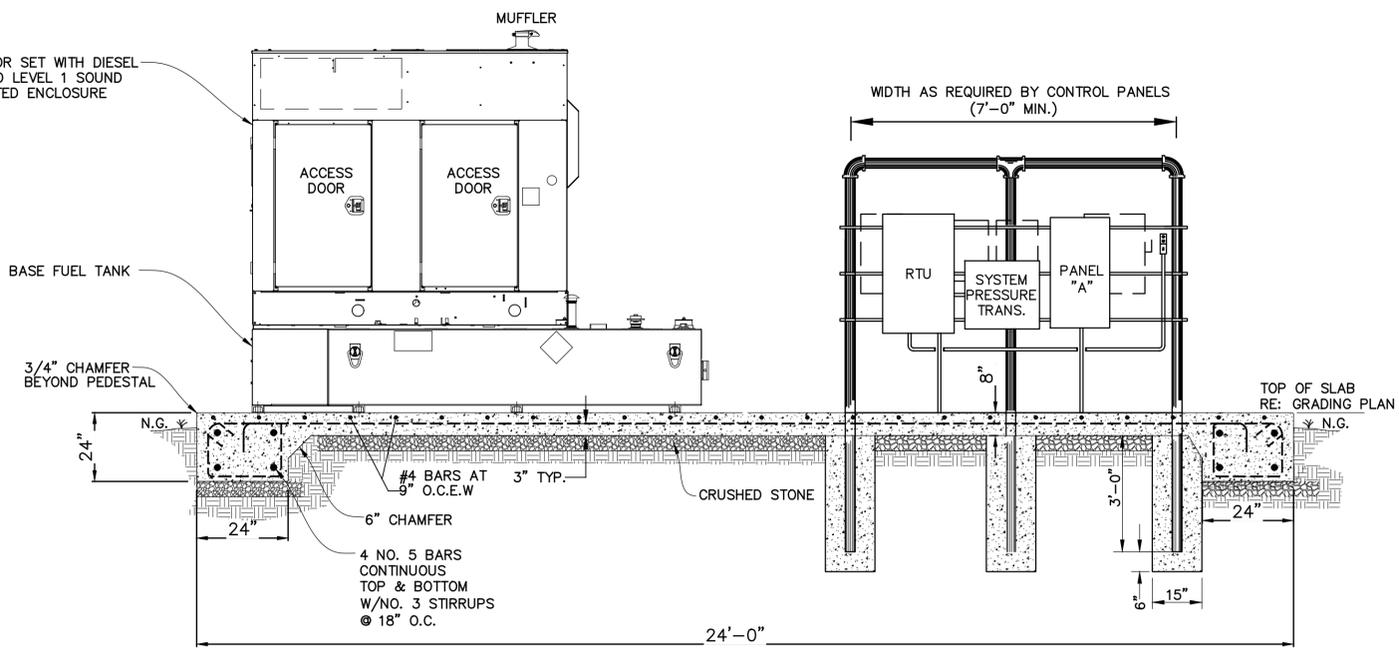
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 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

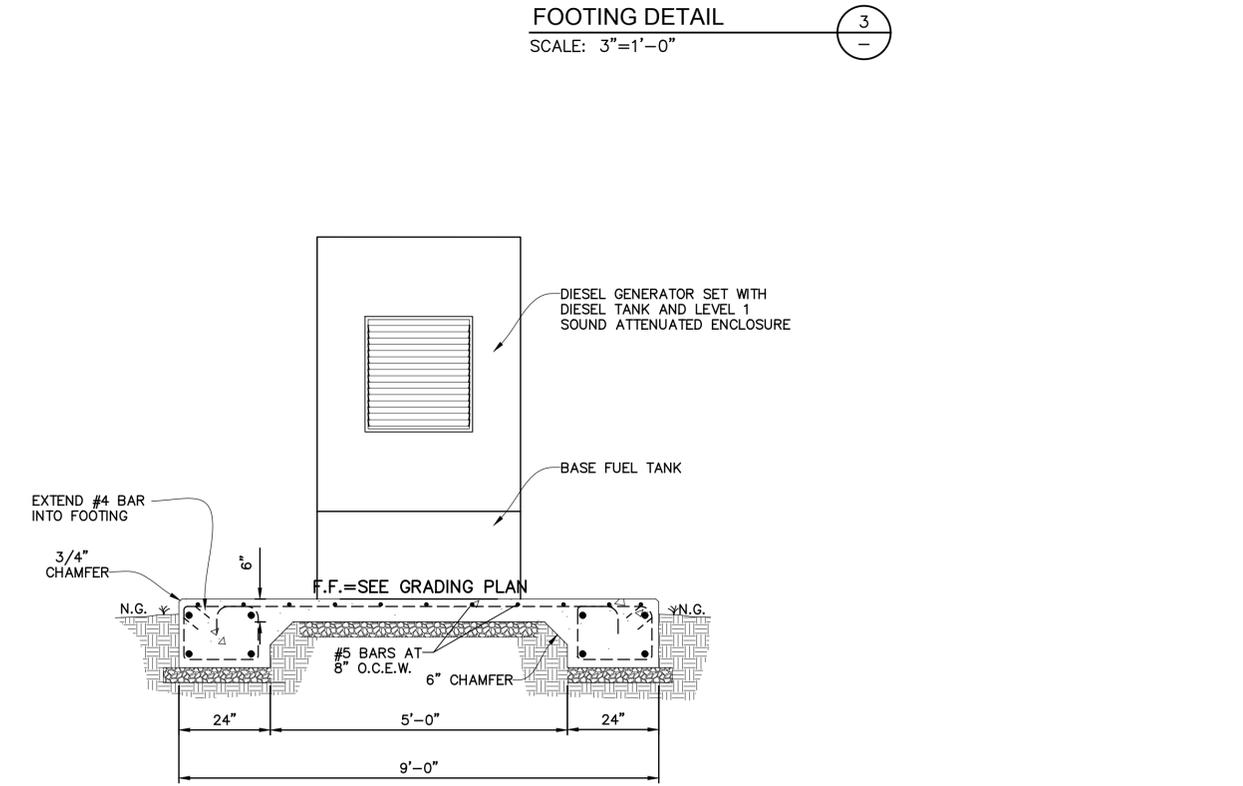
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44
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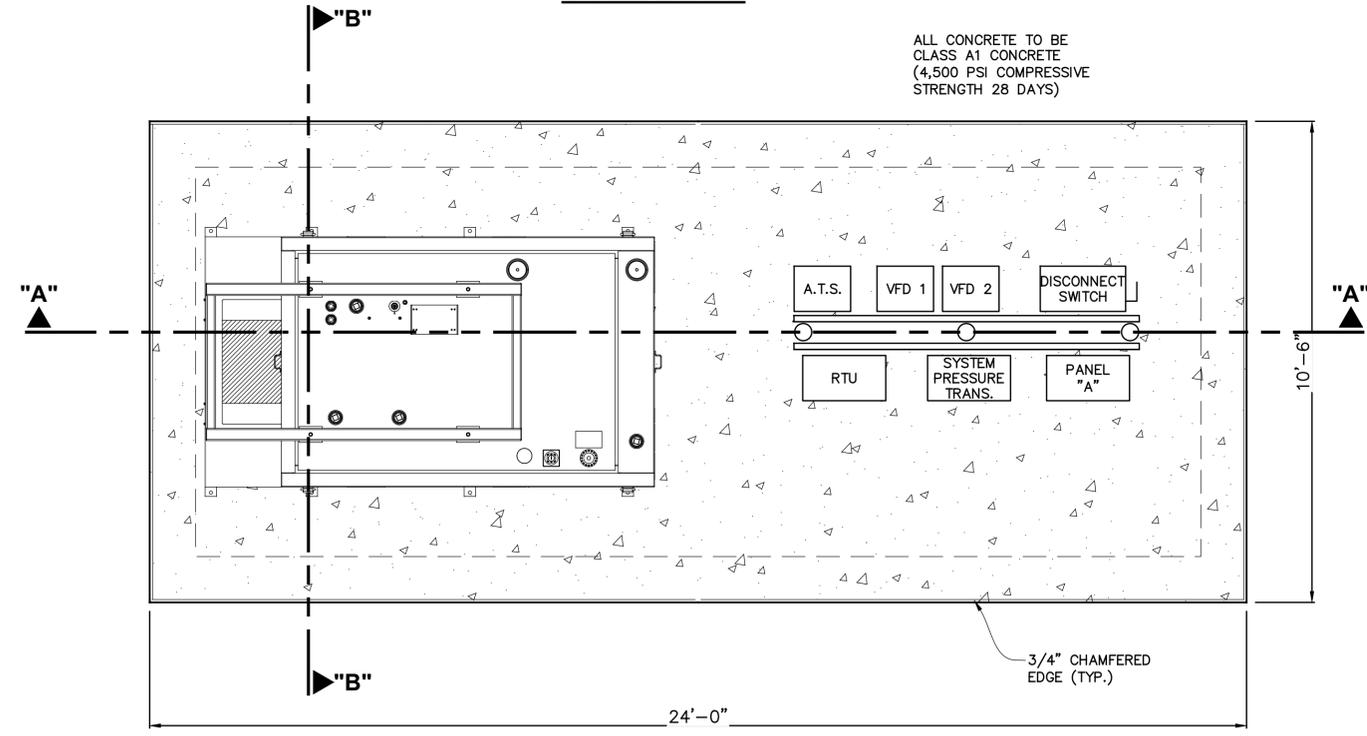
FOOTING DETAIL
 SCALE: 3"=1'-0"
 3



SECTION A-A



SECTION B-B
BUILDING FOUNDATION DETAIL
 SCALE: 1/2"=1'-0"
 2



ELECTRICAL BUILDING FOUNDATION PLAN
 SCALE: 1/2"=1'-0"
 1
 17

FOUNDATION PLAN DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO ADJUST FOUNDATION PLAN DIMENSIONS BASED ON SELECTED GENERATOR SET. PAD DIMENSIONS TO BE 3" LARGER THAN THE GENERATOR FOOTPRINT IN ALL DIRECTIONS. DESIGN BASED ON GENERAC INDUSTRIAL SERIES MODEL SD35-35KW 60HZ.

BOOSTER STATION GENERATOR FOUNDATION DETAILS

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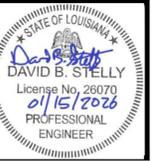
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 LOUISIANA STATE LAW, SECTION R.S. 40:1748.15, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY.

SCALE NOTE
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 P.O. BOX 8599 (71306)
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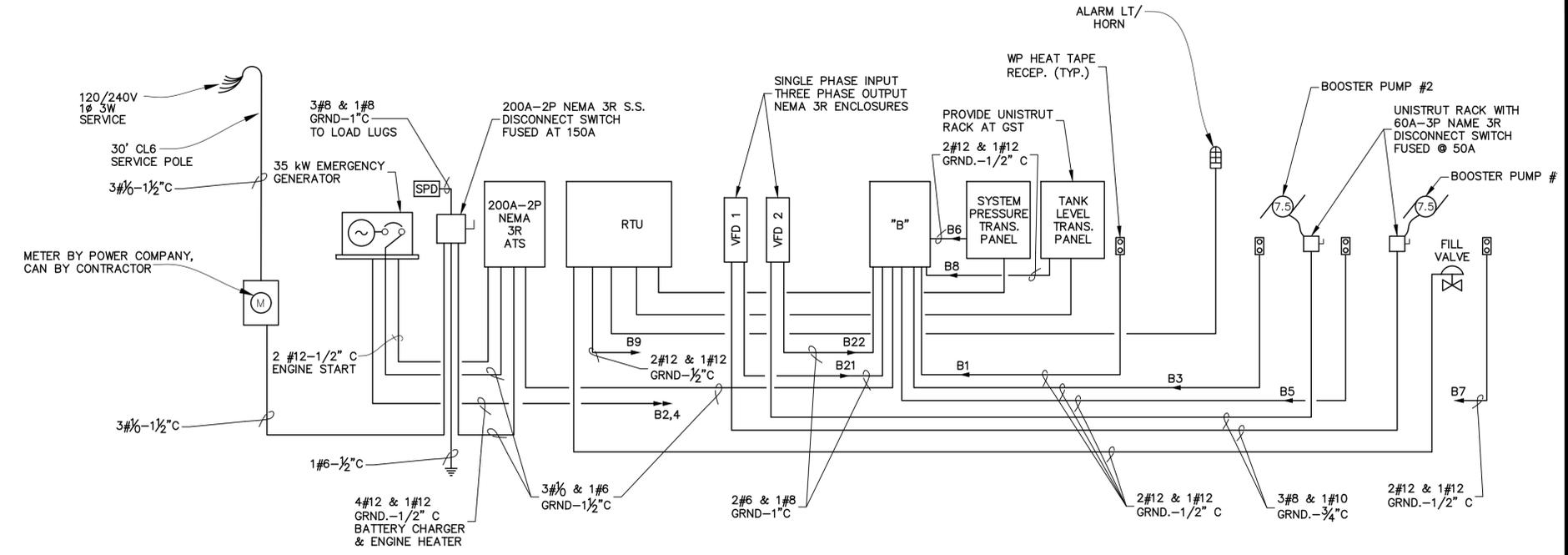
REVISION	DATE
CHECKED:	T.C.D
BOOK NO.:	N/A
JOB NO.:	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

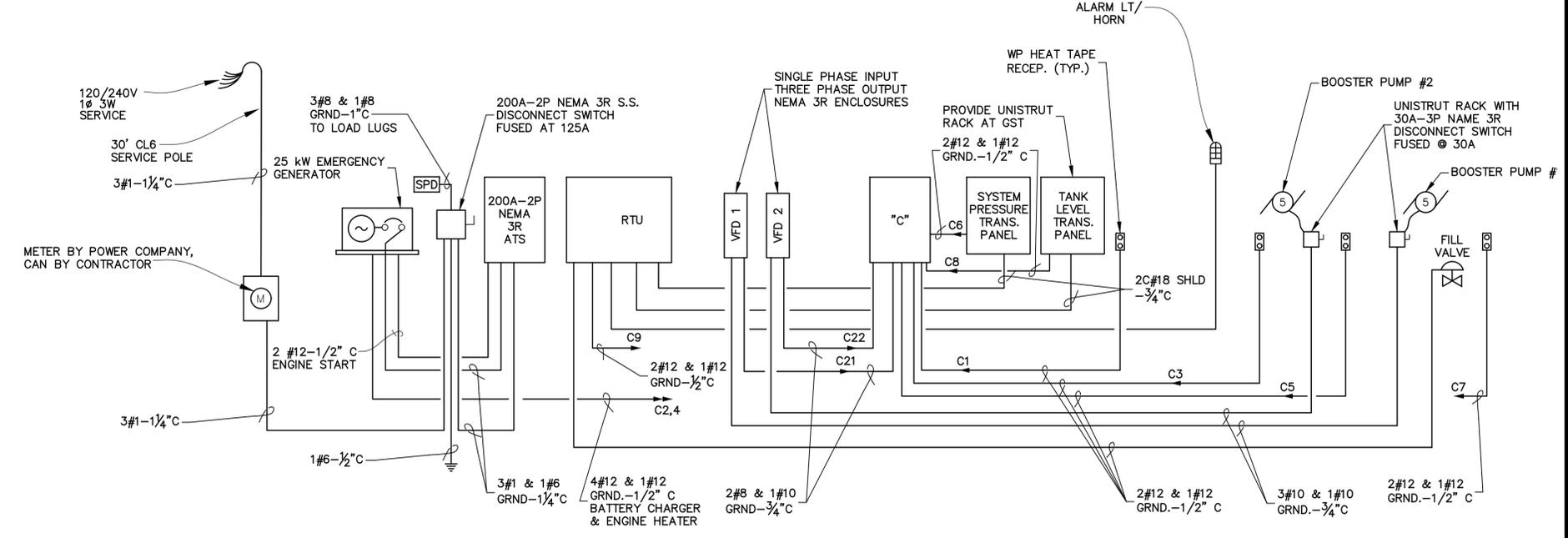
SHEET NUMBER
45
 OF 59

PANEL "B"				NEMA 3R S.S. 200A MLO PANEL FOR 120/240V 1Ø 3W SERVICE INTERRUPTING RATING: 10,000 AMPS					
CKT NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA		LOAD SERVED	TRIP AMPS	NO. POLES	CKT NO.
				A	B				
1	20	1	HEAT TAPE RECEPTACLE	1000	1000	ENGINE HEATER	20	1	2
3	20	1	HEAT TAPE RECEPTACLE	1000	500	GEN. BATTERY CHARGER	20	1	4
5	20	1	HEAT TAPE RECEPTACLE	1000	500	SYSTEM PRESSURE TRANS.	20	1	6
7	20	1	HEAT TAPE RECEPTACLE	500	1000	GST LEVEL TRANSDUCER	20	1	8
9	20	1	RTU			SPARE	20	1	10
11	20	1	SPARE			SPARE	20	1	12
13	20	1	SPARE			SPARE	20	1	14
15	20	1	SPARE			SPARE	20	1	16
17	-	-	SPACE ONLY			SPACE ONLY	-	-	18
19	-	-	SPACE ONLY			SPACE ONLY	-	-	20
21	80	2	VFD 1	4800	4800	VFD 2	80	2	22
23	-	-	-		4800	-	-	-	24



1 BOOSTER STATION 2 RISER DIAGRAM

PANEL "C"				NEMA 3R S.S. 125A MLO PANEL FOR 120/240V 1Ø 3W SERVICE INTERRUPTING RATING: 10,000 AMPS					
CKT NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA		LOAD SERVED	TRIP AMPS	NO. POLES	CKT NO.
				A	B				
1	20	1	HEAT TAPE RECEPTACLE	1000	1000	ENGINE HEATER	20	1	2
3	20	1	HEAT TAPE RECEPTACLE	1000	500	GEN. BATTERY CHARGER	20	1	4
5	20	1	HEAT TAPE RECEPTACLE	1000	500	SYSTEM PRESSURE TRANS.	20	1	6
7	20	1	HEAT TAPE RECEPTACLE	500	1000	GST LEVEL TRANSDUCER	20	1	8
9	20	1	RTU			SPARE	20	1	10
11	20	1	SPARE			SPARE	20	1	12
13	20	1	SPARE			SPARE	20	1	14
15	20	1	SPARE			SPARE	20	1	16
17	-	-	SPACE ONLY			SPACE ONLY	-	-	18
19	-	-	SPACE ONLY			SPACE ONLY	-	-	20
21	60	2	VFD 1	3400	3400	VFD 2	60	2	22
23	-	-	-		3400	-	-	-	24



2 BOOSTER STATIONS 3 & 4 RISER DIAGRAM

BOOSTER STATION ELECTRICAL DETAILS (1 OF 2)

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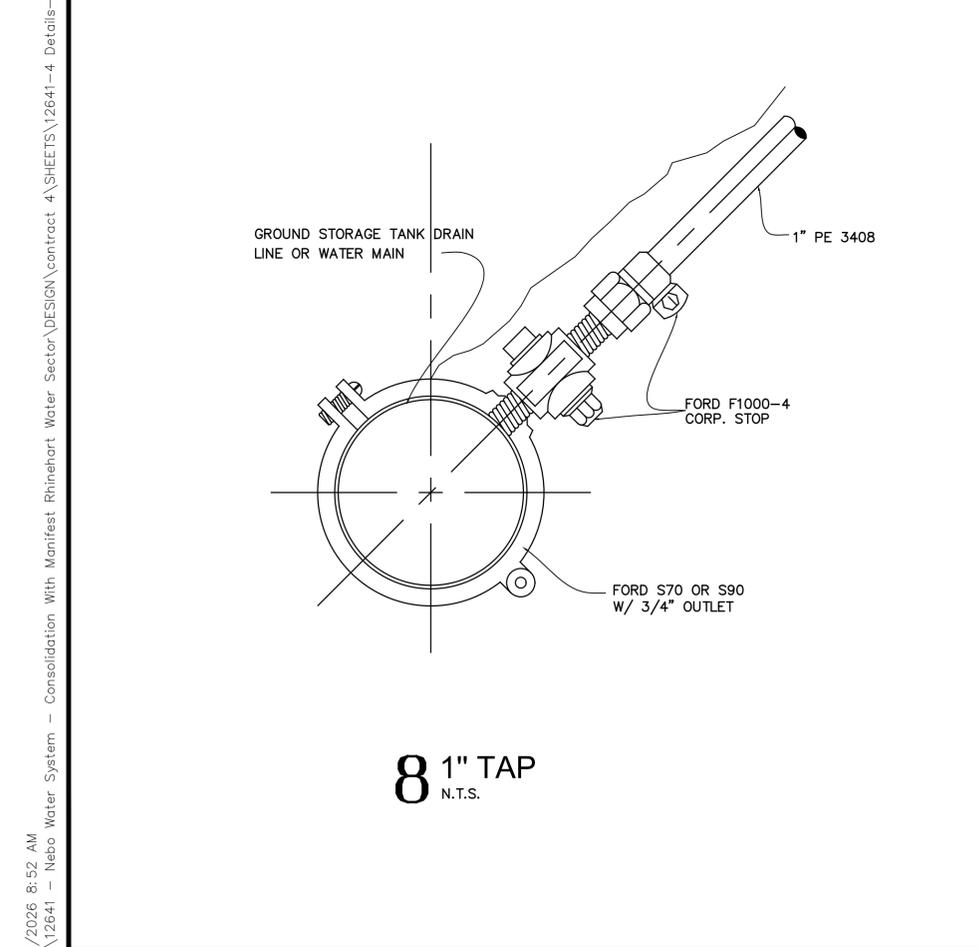
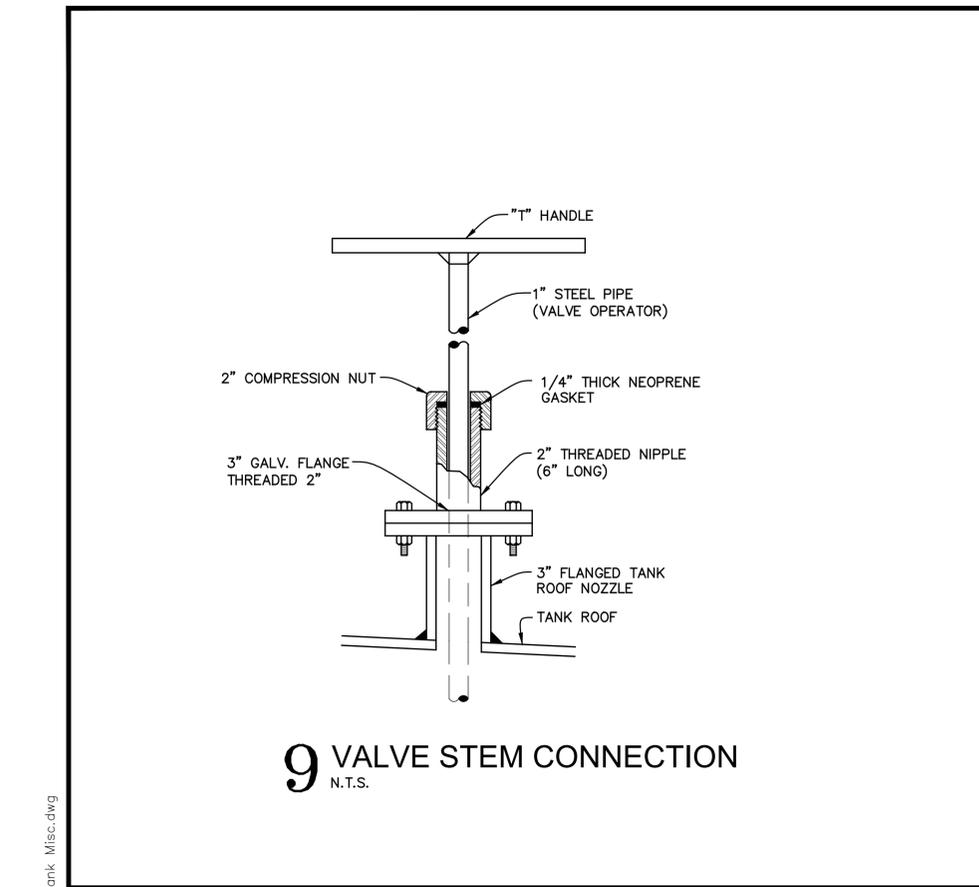
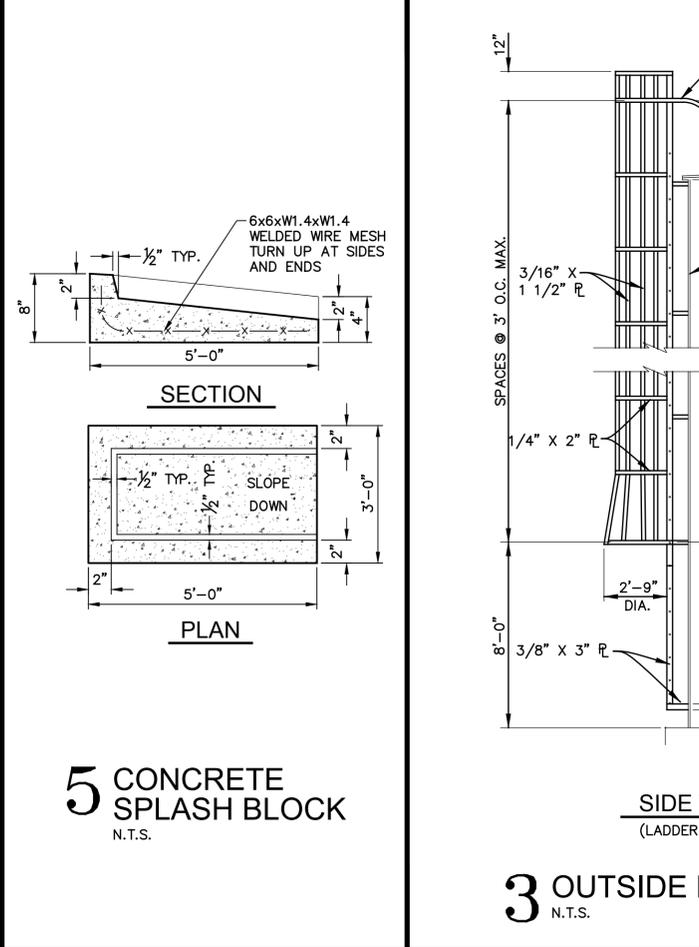
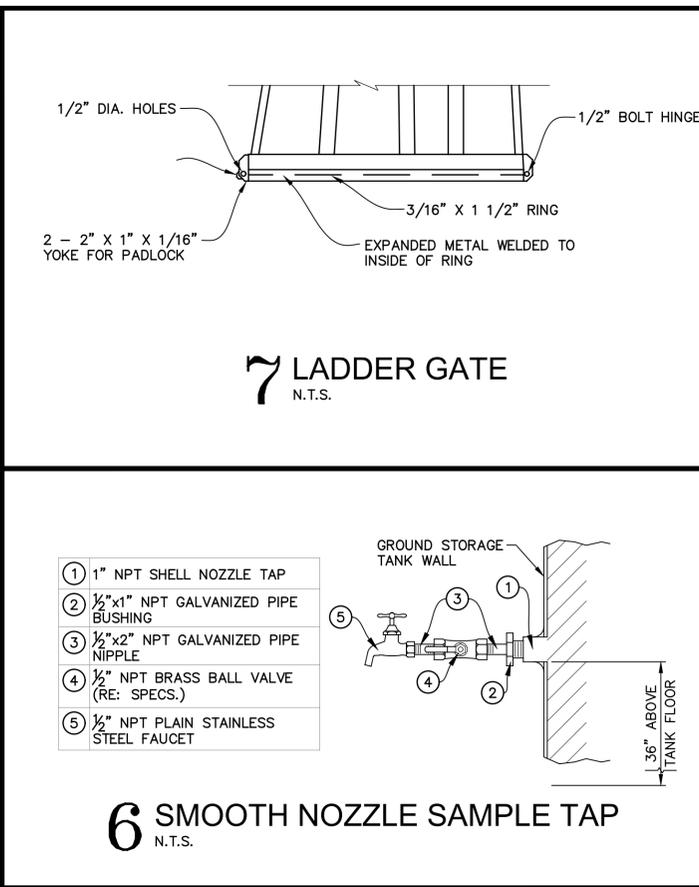
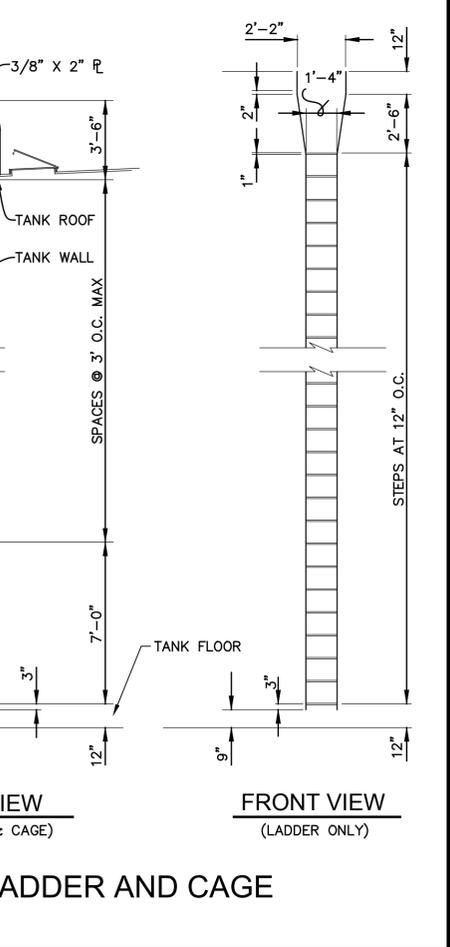
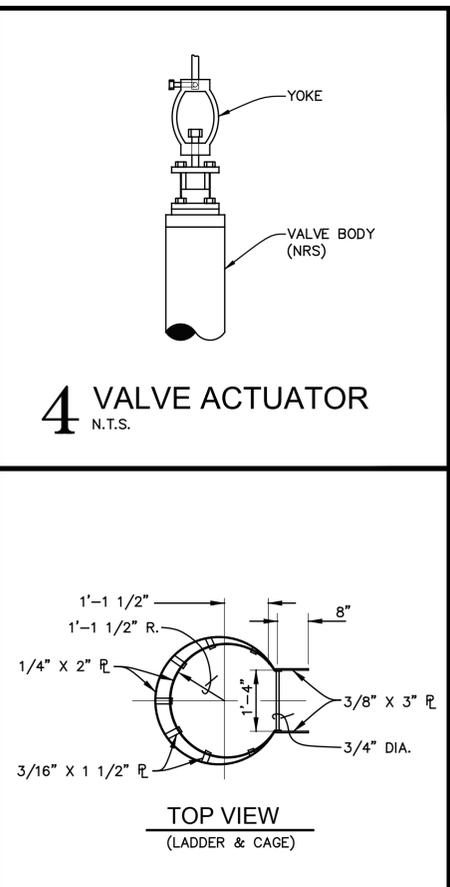
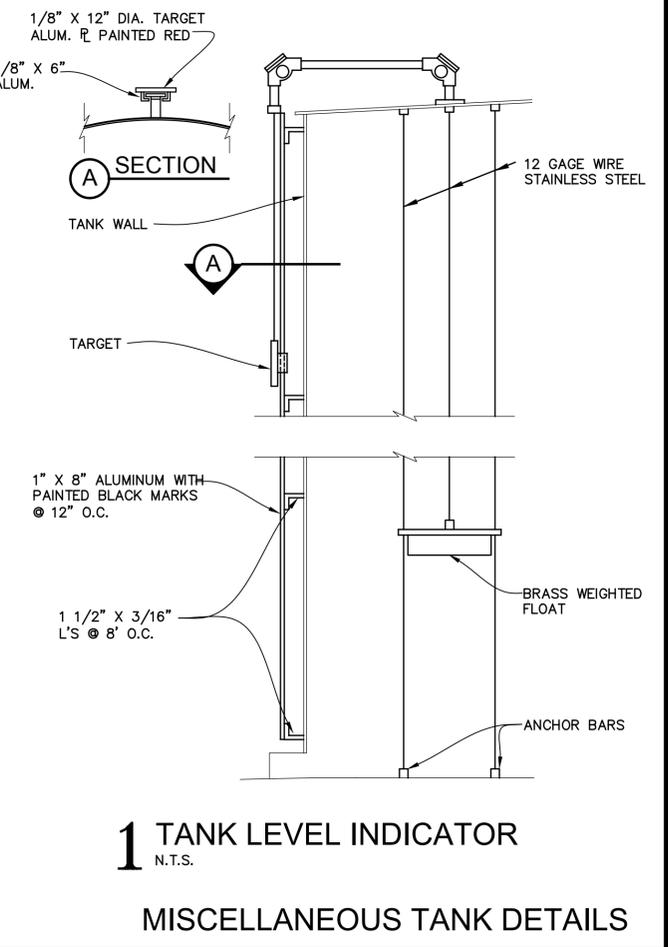
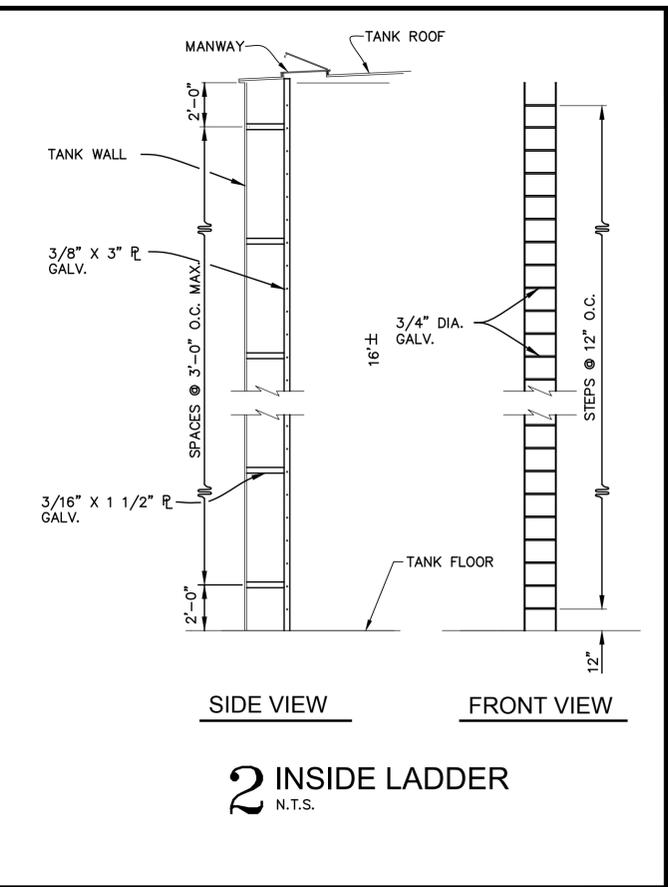
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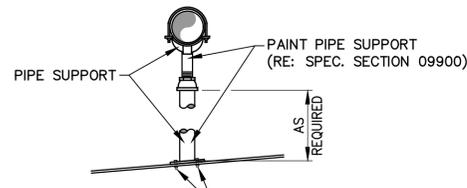
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BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
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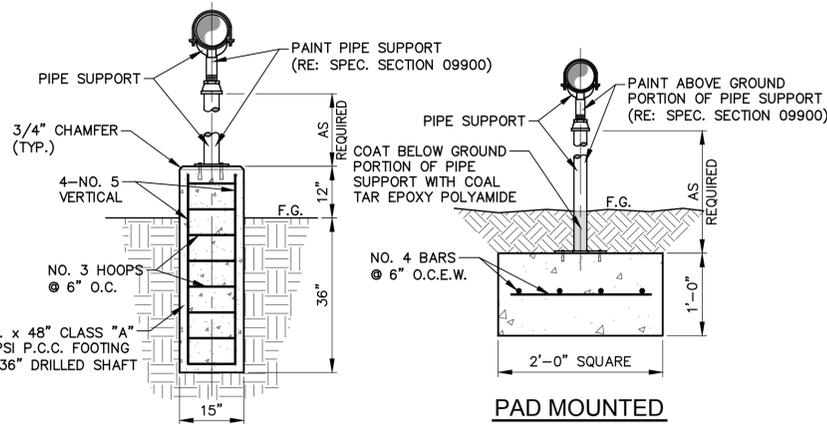
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 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
48
 OF 59



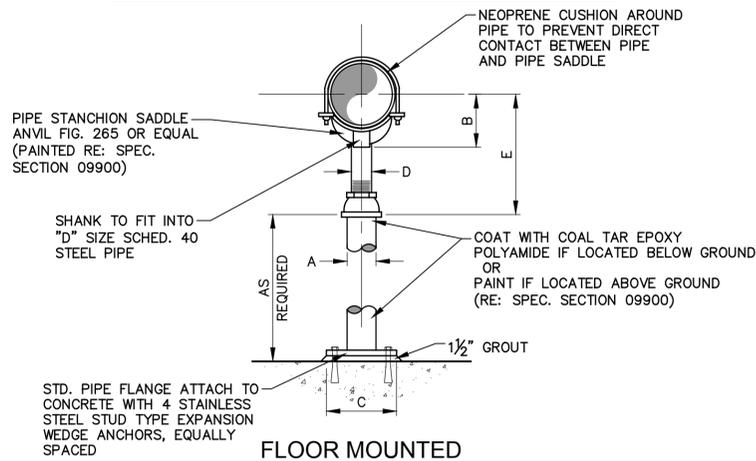


ROOF MOUNTED

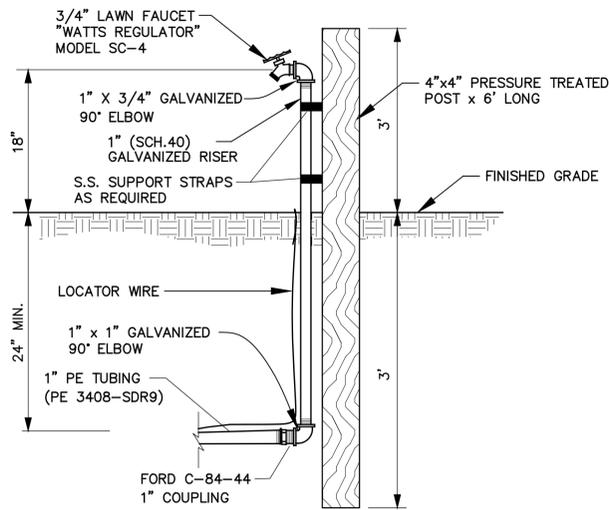


SHAFT MOUNTED

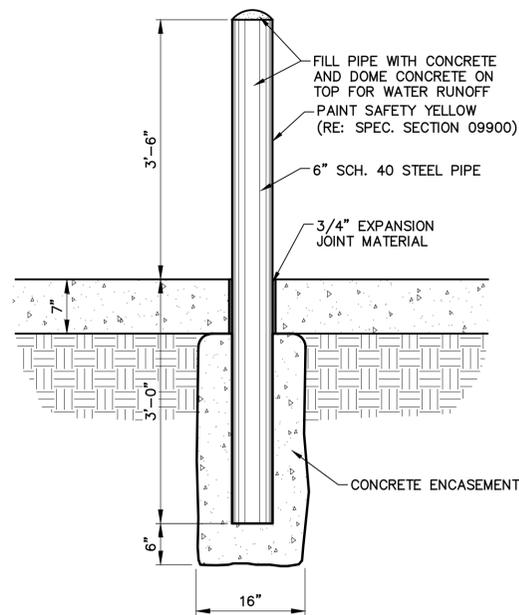
PIPE SIZE	A	B	C	D	E	
					MIN	MAX
2 1/2"	2 1/2"	3 1/2"	9"	1 1/2"	8"	13"
3"	2 1/2"	3 3/4"	9"	1 1/2"	8 1/4"	13 1/4"
3 1/2"	2 1/2"	4"	9"	1 1/2"	8 1/2"	13 1/2"
4"	3"	4 1/4"	9"	2 1/2"	9 1/4"	14"
5"	3"	4 7/8"	9"	2 1/2"	10"	14 3/4"
6"	3"	5 1/2"	9"	2 1/2"	10 1/2"	15 1/4"
8"	3"	6 7/8"	9"	2 1/2"	11 3/4"	16 1/2"
10"	3"	8 1/2"	9"	2 1/2"	13 1/2"	18 1/4"
12"	3"	9 15/16"	9"	2 1/2"	15"	19 3/4"
14"	4"	10 15/16"	11"	3"	16 1/4"	20 3/4"
16"	4"	12 3/8"	11"	3"	17 3/4"	22 1/4"
18"	6"	13 7/8"	13 1/2"	3 1/2"	19 1/2"	24"
20"	6"	15 3/8"	13 1/2"	3 1/2"	21"	25 1/2"
24"	6"	17 15/16"	13 1/2"	4"	23 3/4"	28 1/4"
30"	6"	21 5/16"	13 1/2"	4"	27"	32 1/2"
32"	6"	22 1/2"	13 1/2"	4"	28 1/4"	32 3/4"
36"	6"	24 1/2"	13 1/2"	4"	30 1/4"	34 3/4"



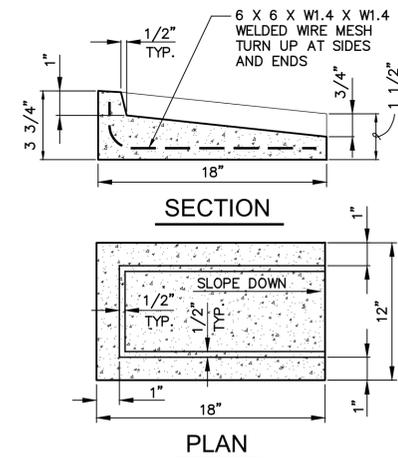
6 PIPE SUPPORT
N.T.S.



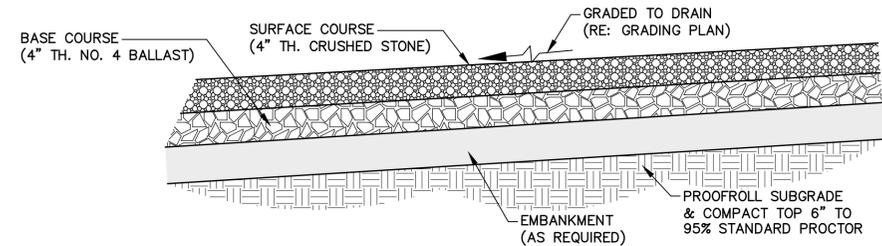
5 HOSE BIBB
N.T.S.



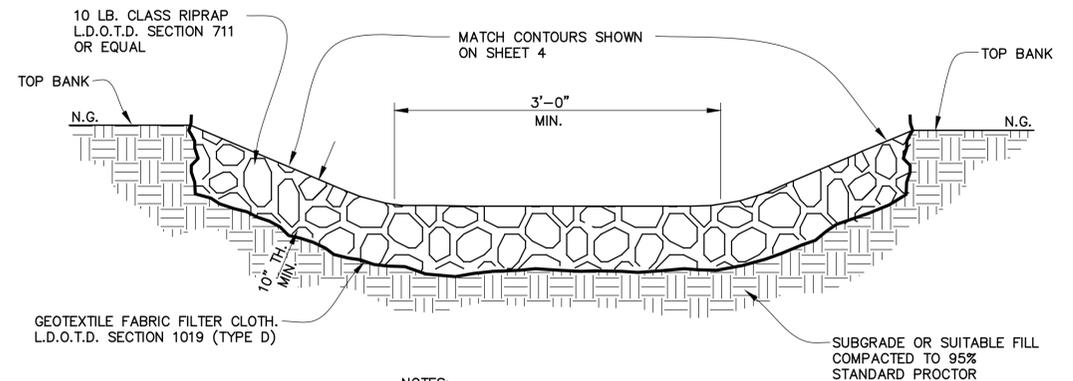
4 PIPE BOLLARD
N.T.S.



3 SPLASH BLOCK
N.T.S.



2 CRUSHED STONE SURFACE
N.T.S.



- NOTES:
1. ALL OVERLAPS TO BE A MINIMUM OF 12".
2. UPSTREAM LAYER TO BE ON TOP OF DOWNSTREAM LAYER.

1 RIPRAP
N.T.S.

MISCELLANEOUS SITE DETAILS



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DATE 10/2025

REVISION DATE

CHECKED T.C.D

BOOK NO. N/A

JOB NO. 12641-4

DWG. NO. 14645

SCALE SHOWN

OWNER NEBO WATER SYSTEM, INC.

PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.

CONTRACT 4

SHEET NUMBER

49 OF 59

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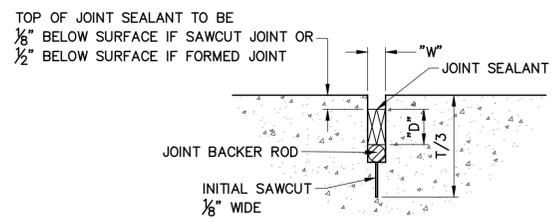
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OWNER NEBO WATER SYSTEM, INC.
 PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
50
 OF 59



- NOTES:**
- W/D RATIO (SHAPE FACTOR) SHALL BE PER JOINT SEALANT MANUFACTURER
 - W SHALL BE 3/8" MIN.
 - SEALANT RESERVOIR SHALL BE CREATED BY SAWCUT.
 - INSTALL JOINT BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
 - INSTALL JOINT BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
 - ASSURE JOINTS ARE CLEAN PRIOR TO THE APPLICATION OF JOINT SEALANT.
 - JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
 - TOOL 1/2" RADIUS FOR FORMED SEALANT RESERVOIR AT EXPANSION JOINT.
 - SEALANT RESERVOIR SHALL BE SIZED TO PROVIDE THE PROPER SHAPE FACTOR, W/D/, AS PER SEALANT MANUFACTURER'S INSTRUCTIONS.
 - JOINT BACKER ROD MUST BE COMPATIBLE WITH THE TYPE OF SEALANT USED, SIZED TO PROVIDE THE DESIRED SHAPE FACTOR, AND INSTALLED AT A CONSISTENT DEPTH.

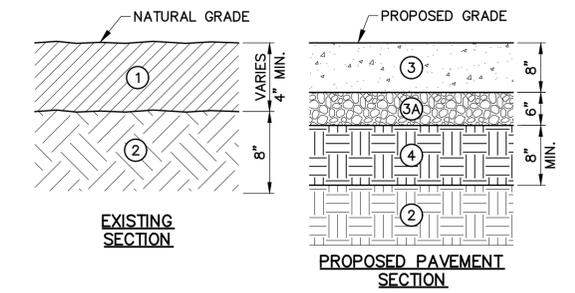
3 SEALANT RESERVOIR

N.T.S.

2 PAVEMENT NOTES

N.T.S.

- PAVEMENT JOINTS SHALL BE PROPERLY SEALED.
- SEALANT SHALL BE A BITUMEN MODIFIED POLYURETHENE; ONE PART, POURABLE AND SELF LEVELING. THE SEALANT SHALL MEET THE PERFORMANCE REQUIREMENTS OF FEDERAL SPECIFICATIONS SS-S-00200 E. THE SEALANT SHALL BE SONOMERIC SEALANT CT 1. AS MANUFACTURED BY SONNEBORN BUILDING PRODUCTS, 7711 COMPUTER AVENUE, MINNEAPOLIS, MINNESOTA 55435 OR APPROVED EQUAL.
- REFERENCE ACI 330R-92 (GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS) UTILIZED FOR PAVEMENT JOINT DESIGN AND JOINT LAYOUT CONSTRUCTIONS.
- PAVEMENT THICKNESS SHALL BE TRANSITIONED OVER A DISTANCE OF 3' AT JOINT LOCATIONS WHERE UNEQUAL SECTION THICKNESSES ABUT.
- DOWEL BARS AND TIE BARS SHALL BE SUPPORTED IN PLACE BY APPROVED SUPPORTS. WHEN DOWEL BAR BASKETS ARE USED, SPACER RODS THAT SPAN THE JOINT SHALL BE CUT IN THE FIELD AFTER THE BASKET HAS BEEN STAKED IN PLACE.

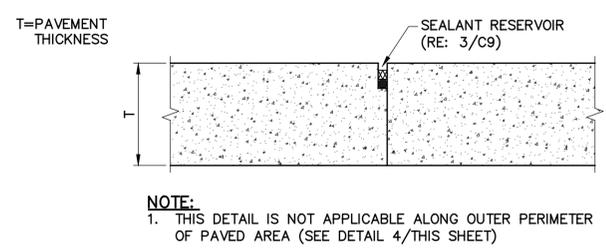


- NOTE:**
 BASE COURSE TO EXTEND 12" BEYOND OUTSIDE EDGE OF PROPOSED PAVEMENT/CURB
- TOPSOIL LAYER - REMOVE TOP 4" MIN. AND STOCKPILE FOR USE IN LANDSCAPING (SEEDING) OR REMOVE FROM SITE. SEE SPEC. SECTION 02102.
 - EXISTING SUBGRADE - REMOVE TO DEPTH REQUIRED TO ACHIEVE PROPOSED PAVEMENT SECTION. PREPARE SUBGRADE IN ACCORDANCE WITH SPEC. SECTION 02203.
 - 8" THICK PORTLAND CEMENT CONCRETE. SEE SPEC. SECTION 02706.
 - 6" THICK STONE BASE COURSE COMPACTED TO 98% STANDARD PROCTOR DENSITY (MIN.) (ASTM D698) AT ±3% OPTIMUM MOISTURE CONTENT. SEE SPEC. SECTION 02302.
 - EMBANKMENT. SEE SPEC. SECTION 02203.

1 CONCRETE PAVEMENT DETAIL

N.T.S.

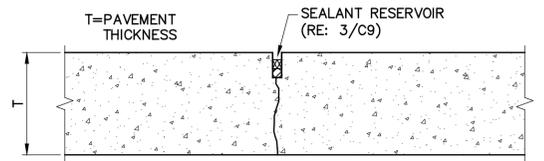
PAVEMENT DETAILS



NOTE:
 1. THIS DETAIL IS NOT APPLICABLE ALONG OUTER PERIMETER OF PAVED AREA (SEE DETAIL 4/THIS SHEET)

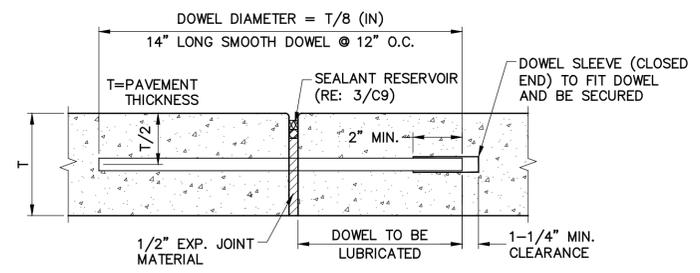
7 LONGITUDINAL CONSTRUCTION JOINT (C.J.-2)

N.T.S.



6 DUMMY JOINT (D.J.)

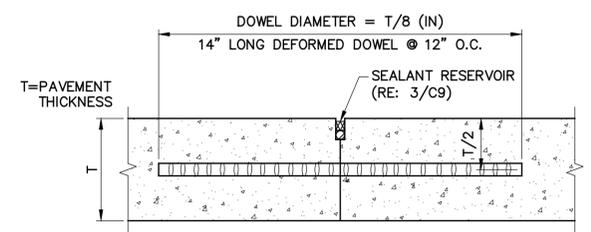
N.T.S.



NOTE:
 1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

5 EXPANSION JOINT (E.J.)

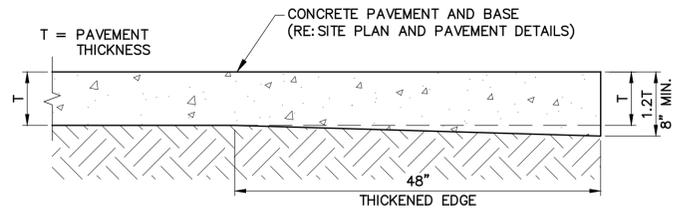
N.T.S.



NOTES:
 1. TIE BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

4 LONGITUDINAL CONSTRUCTION JOINT (C.J.-1)

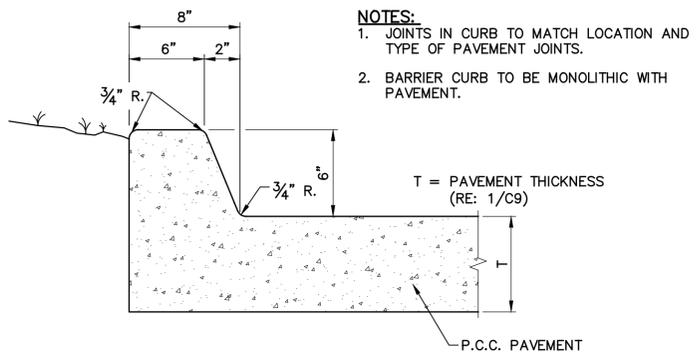
N.T.S.



NOTE:
 THIS DETAIL APPLIES TO THE OUTER EDGE OF ALL CONCRETE PAVEMENTS WITHOUT MONOLITHIC CURB.

1 THICKENED EDGE ON CONCRETE PAVEMENT

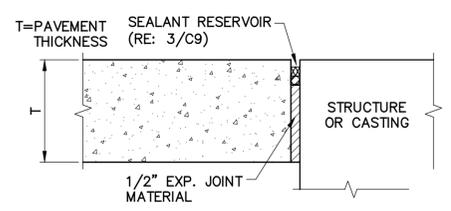
N.T.S.



NOTES:
 1. JOINTS IN CURB TO MATCH LOCATION AND TYPE OF PAVEMENT JOINTS.
 2. BARRIER CURB TO BE MONOLITHIC WITH PAVEMENT.

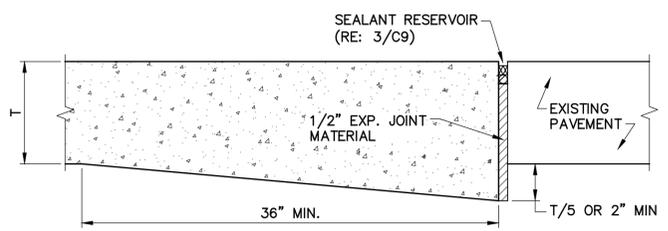
10 MONOLITHIC BARRIER CURB

N.T.S.



9 ISOLATION JOINT TYPE A (I.J.-A)

N.T.S.



8 BUTTING JOINT (B.J.)

N.T.S.

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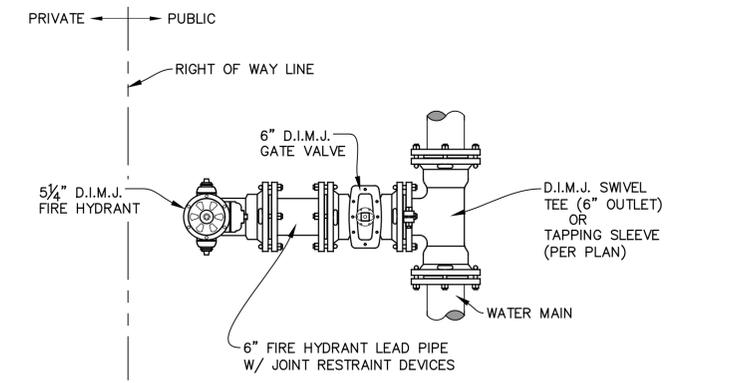
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 DATE 10/2025

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CHECKED	T.C.D
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JOB NO.	12641-4

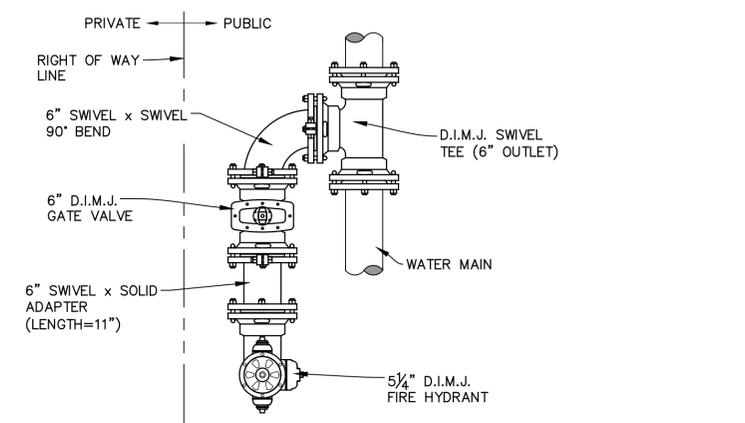
DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

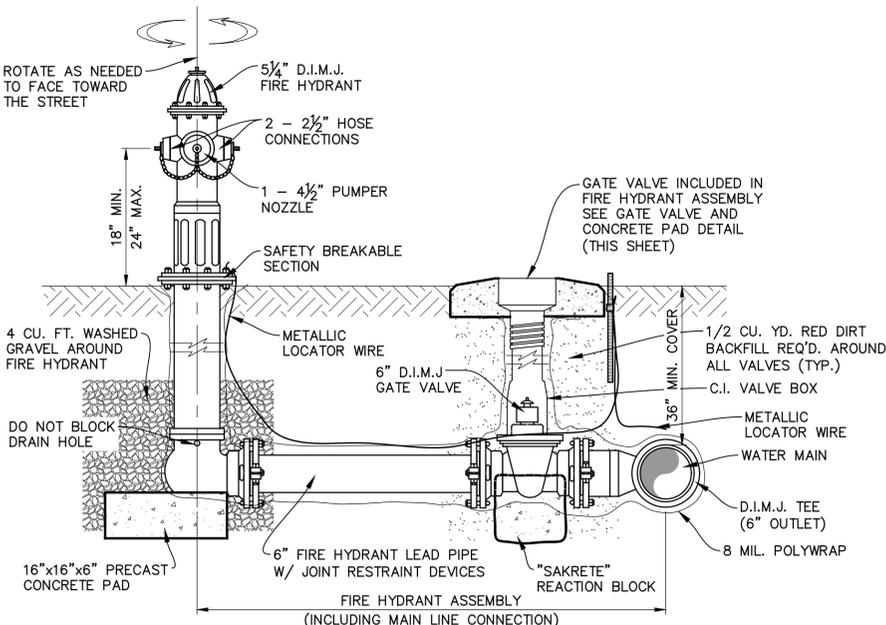
SHEET NUMBER
51
 OF 59



7 FIRE HYDRANT ASSEMBLY - STRAIGHT MOUNT (PIPING DIAGRAM)
 N.T.S.



6 FIRE HYDRANT ASSEMBLY - SIDE MOUNT (PIPING DIAGRAM)
 N.T.S.



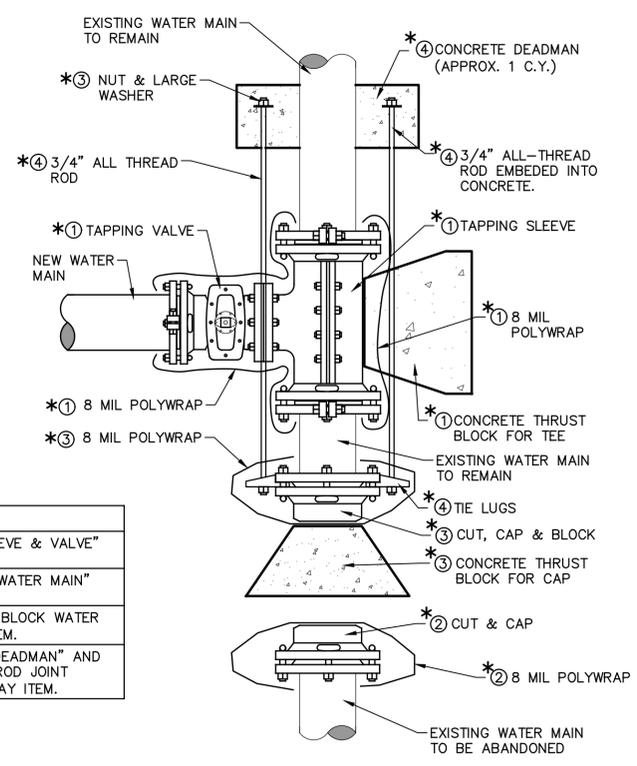
5 FIRE HYDRANT ASSEMBLY (ELEVATION)
 N.T.S.

4 FIRE HYDRANT NOTES

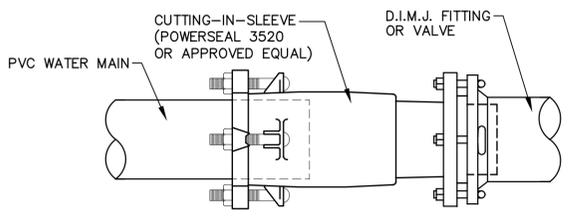
- N.T.S. THE PURPOSE OF THE ELEVATION DRAWING IS TO PROVIDE STANDARD INSTALLATION DETAILS & REQUIREMENTS FOR BOTH STRAIGHT MOUNT & SIDE MOUNT FIRE HYDRANT ASSEMBLIES. SEE THE "PIPING DIAGRAM" DETAILS FOR SCHEDULE OF MATERIALS.
- THE PURPOSE OF THE PIPING DIAGRAMS IS TO PROVIDE LAY-OUT & MATERIALS INFORMATION ONLY. ALL NOTES RELATED TO MATERIAL SPECIFICATIONS, THRUST BLOCKING, INSTALLATION REQUIREMENTS ETC. GIVEN IN "FIRE HYDRANT ASSEMBLY (TYPICAL ELEVATION)" SHALL APPLY HEREIN.
 - HYDRANT PUMPER & HOSE THREAD CONNECTIONS SHALL BE NATIONAL STANDARD (COORDINATE WITH TOWN OF MANSURA FIRE DEPARTMENT PRIOR TO ORDERING HYDRANTS).
 - PUMPER NOZZLE TO BE FACED TOWARD THE STREET (TYP.).
 - FIRE HYDRANTS, VALVES, VALVE BOXES, TEES, BENDS & ALL D.I. PIPES SHALL BE WRAPPED W/ 8 MIL. THICKNESS POLYETHYLENE WRAP. SPECIAL CARE TO BE TAKEN NOT TO BLOCK HYDRANT DRAIN HOLE.
 - VALVES, VALVE BOXES, MAIN LINE TEES AND/OR TAPPING SLEEVES SHALL BE INCLUDED IN THE PRICE OF THE FIRE HYDRANT ASSEMBLY.
 - NUTS & BOLTS FOR D.I. FITTINGS SHALL BE COR-TEN BOLTS AS MANUFACTURED BY NSS INDUSTRIES. (SEE SPECS SECTION 02560).
 - FIRE HYDRANTS SHALL BE FIELD PAINTED (SEE SPECS SECTION 02560).
 - FIRE HYDRANT DEPTH OF BURY OR NECESSARY EXTENSIONS SHALL BE FURNISHED TO SUIT ACTUAL FIELD CONDITIONS AT NO EXTRA COST TO OWNER.
 - SEE REACTION BLOCK DETAILS FOR BLOCKINGS.

PAY ITEMS:

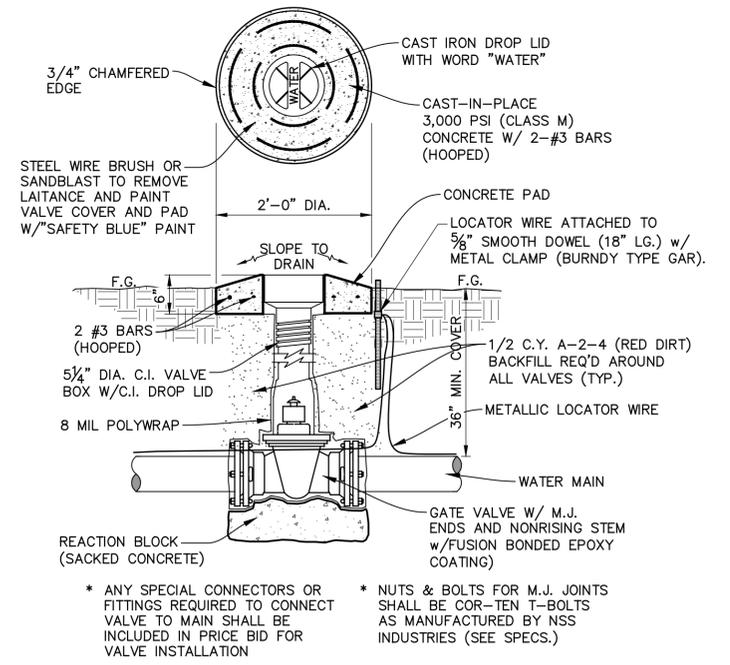
* ①	"TAPPING SLEEVE & VALVE" PAY ITEM.
* ②	"CUT & CAP WATER MAIN" PAY ITEM.
* ③	"CUT, CAP & BLOCK WATER MAIN" PAY ITEM.
* ④	"CONCRETE 'DEADMAN' AND ALL THREAD ROD JOINT RESTRAINT" PAY ITEM.



2 TAPPING SLEEVE AND VALVE ASSEMBLY
 N.T.S.



3 CUTTING-IN SLEEVE CONNECTION
 N.T.S.



1 GATE VALVE AND CONCRETE PAD
 N.T.S.

STANDARD WATER DETAILS (1 OF 5)

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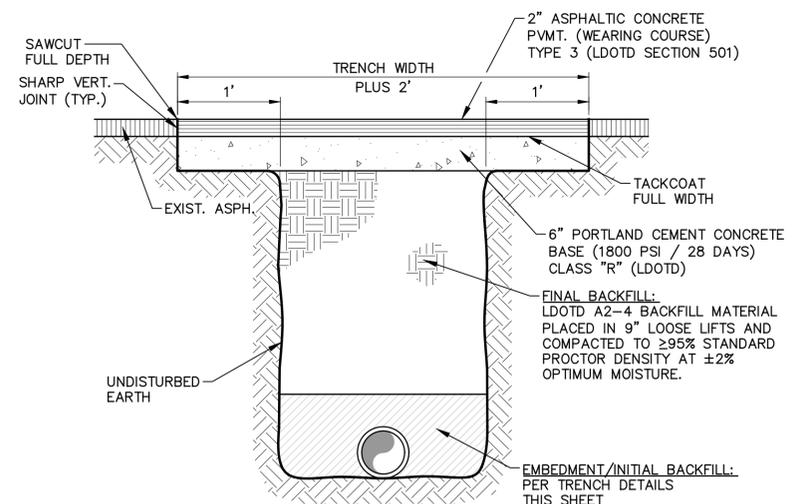
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JOB NO.	12641-4

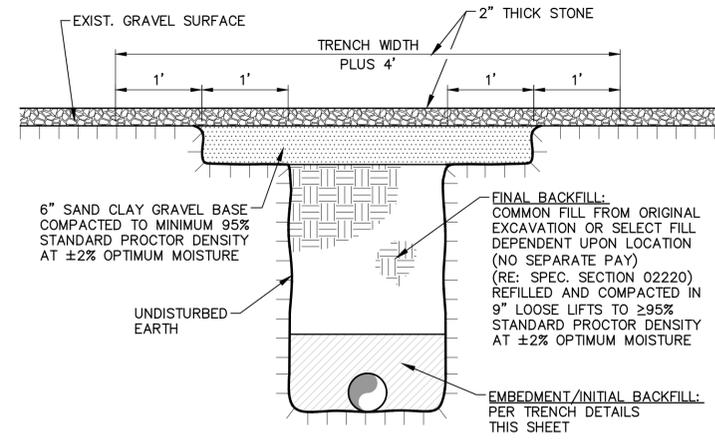
DWG. NO. 14645
 SCALE SHOWN

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 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

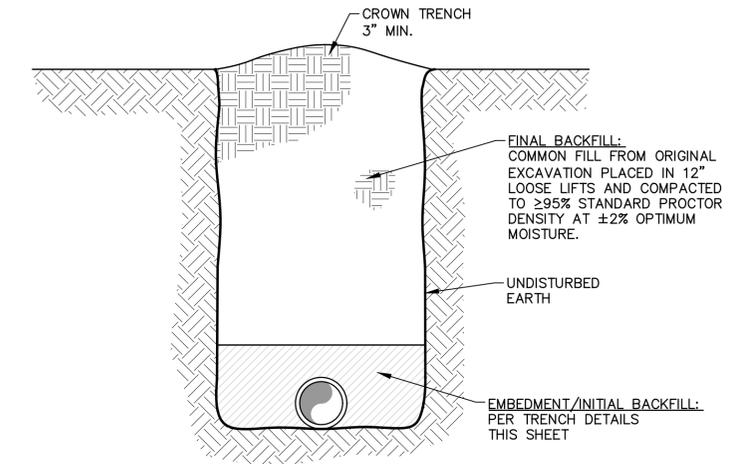
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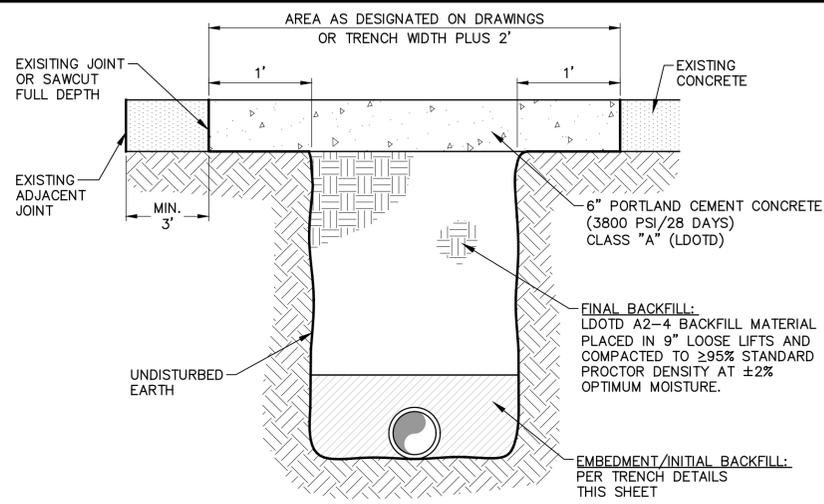
3 ASPHALT SURFACE REPAIR
 N.T.S.



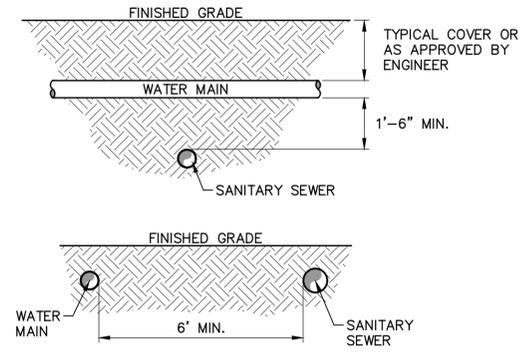
6 AGGREGATE SURFACE REPAIR
 N.T.S.



2 UNIMPROVED SURFACE REPAIR
 N.T.S.

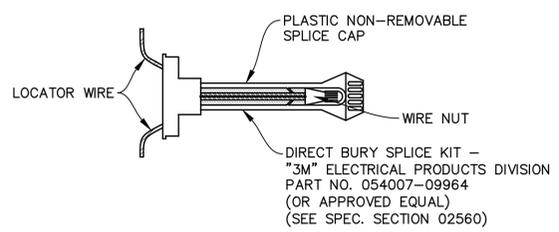


5 CONCRETE SURFACE REPAIR
 N.T.S.

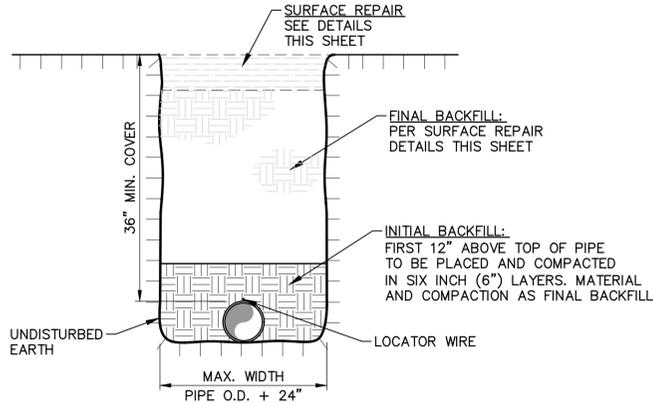


1 WATER AND SANITARY SEWER CLEARANCES
 N.T.S.

STANDARD WATER DETAILS (2 OF 5)



7 LOCATOR WIRE SPLICE
 N.T.S.



4 WATER MAIN TRENCH
 N.T.S.

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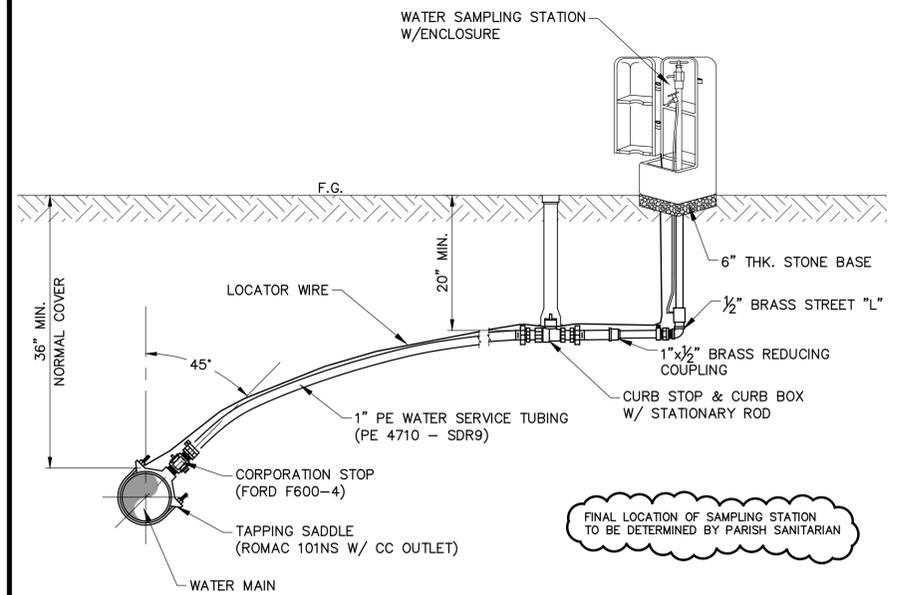
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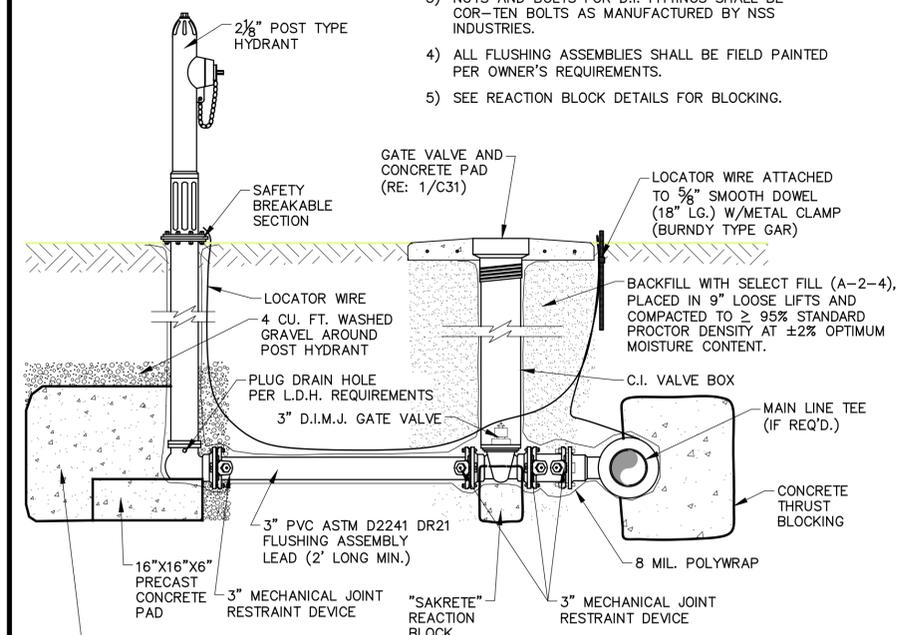
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 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

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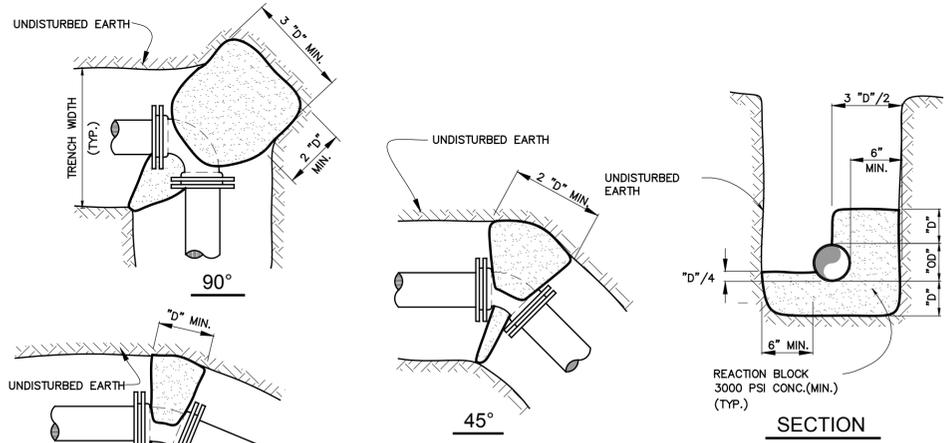
2 WATER SAMPLING STATION
 N.T.S.

- NOTES:**
- 1) NOZZLE TO BE FACED TOWARD STREET OR NATURAL DRAIN (TYP.).
 - 2) FLUSHING HYDRANT, VALVE, VALVE BOXES, BEND, TEES, AND ALL PVC PIPE SHALL BE INCLUDED IN THE PRICE BID FOR THE FLUSHING ASSEMBLY.
 - 3) NUTS AND BOLTS FOR D.I. FITTINGS SHALL BE COR-TEN BOLTS AS MANUFACTURED BY NSS INDUSTRIES.
 - 4) ALL FLUSHING ASSEMBLIES SHALL BE FIELD PAINTED PER OWNER'S REQUIREMENTS.
 - 5) SEE REACTION BLOCK DETAILS FOR BLOCKING.



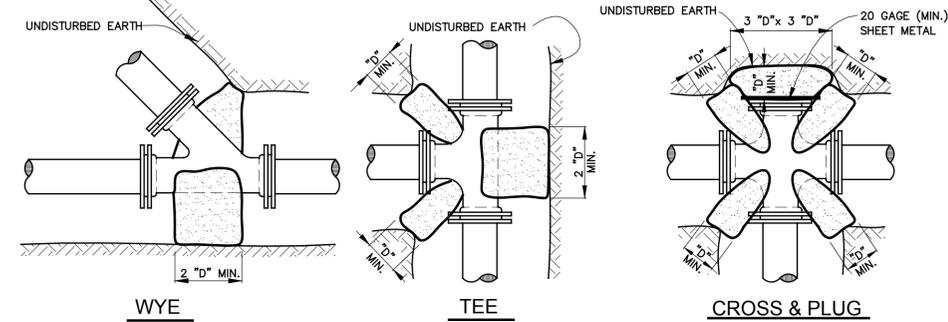
1 FLUSHING ASSEMBLY
 N.T.S.

STANDARD WATER DETAILS (3 OF 5)

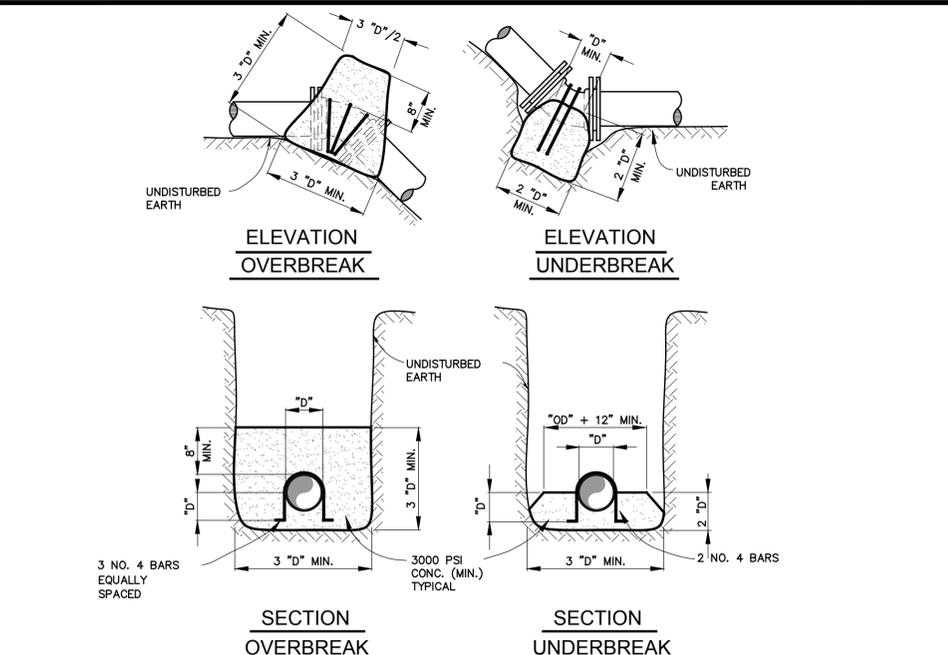


NOTES:
 "D" = NOMINAL DIAMETER OF PIPE,
 "OD" = ACTUAL OUTSIDE DIAMETER OF PIPE.
 REACTION BLOCK DIMENSIONS MAY BE MODIFIED IN THE FIELD BY THE ENGINEER DEPENDING ON THE SOIL BEARING PRESSURE.
 ALL D.I. M.J. FITTING TO BE POLYWRAPPED IN ACCORDANCE SPECIFICATION SECTION 02560.

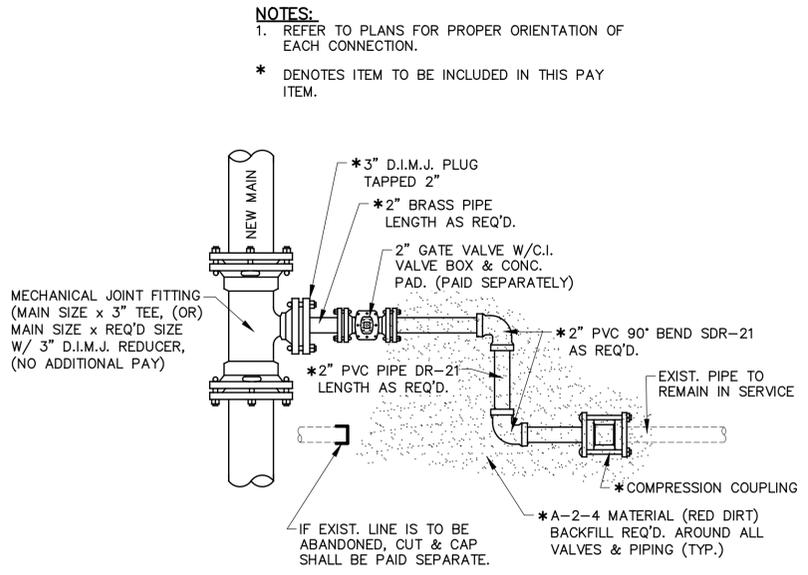
11 1/4 - 22 1/2



5 HORIZONTAL REACTION THRUST BLOCKING
 N.T.S.



4 VERTICAL REACTION THRUST BLOCKING
 N.T.S.



**3 CONNECTION OF NEW WATER MAIN TO 2\"/>
 N.T.S.**

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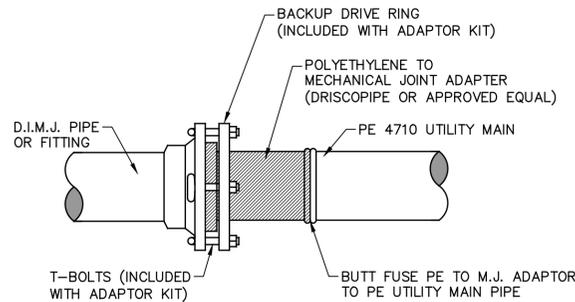


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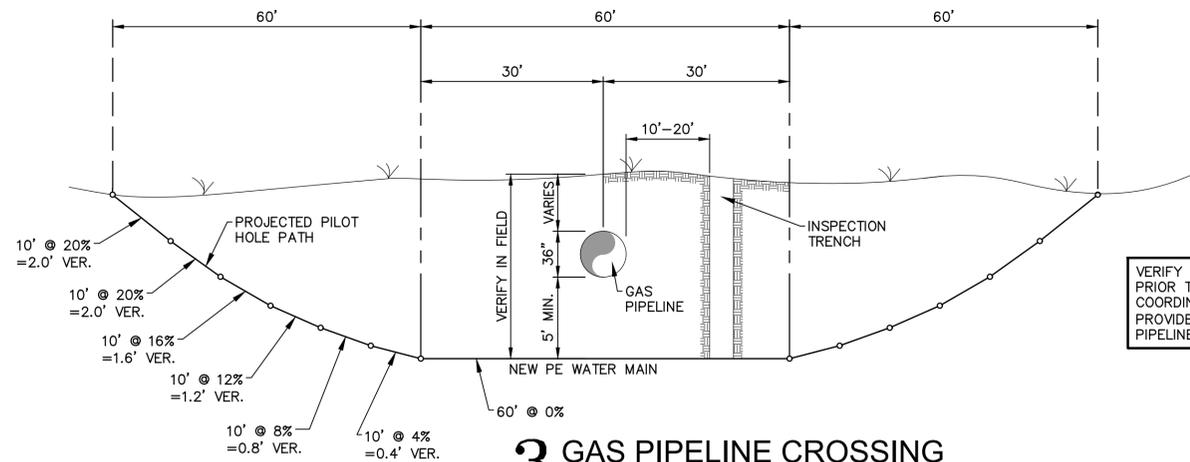


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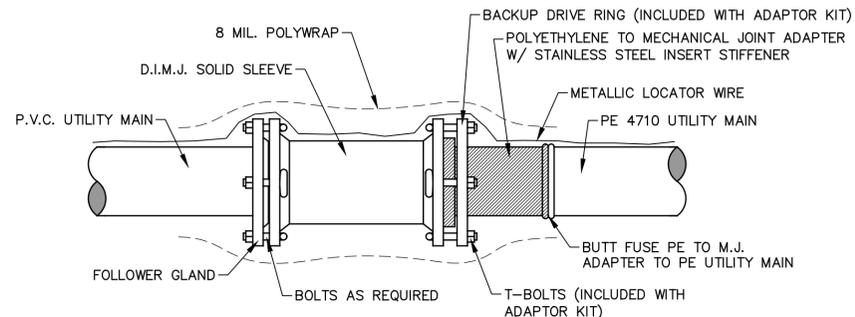
NOTE:
WHERE TRANSITION CONNECTION IS IN LINE WITH PVC MAIN, CONTRACTOR SHALL PROVIDE JOINT RESTRAINT ON ALL JOINTS WITHIN FORTY (40) LINEAR FEET OF TRANSITION.

4 POLYETHYLENE TO D.I.M.J. TRANSITION N.T.S.



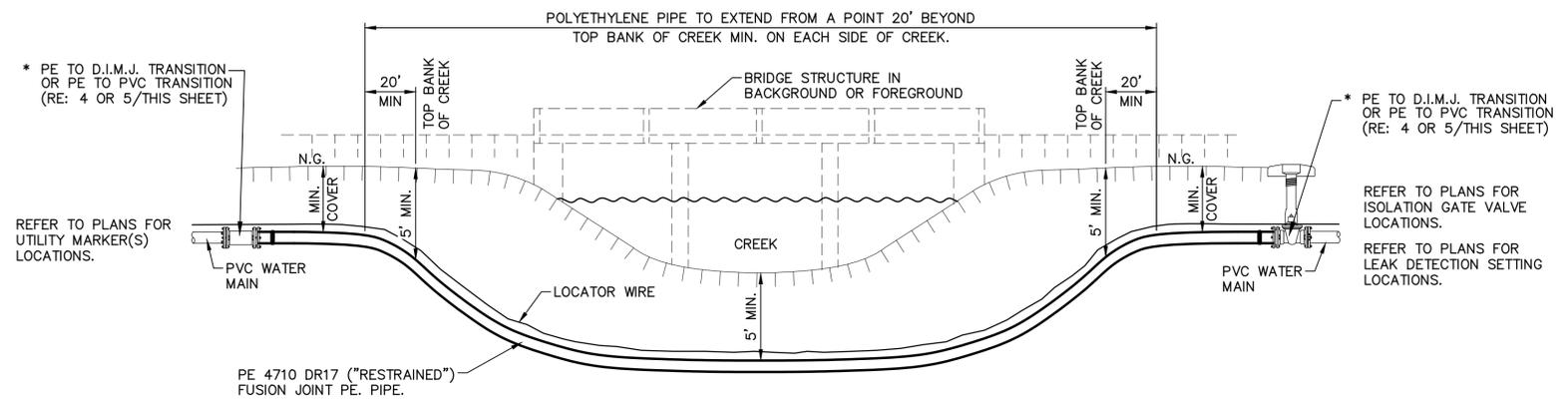
VERIFY EXACT LOCATION AND DEPTH OF PIPELINE PRIOR TO INSTALLATION OF WATER MAIN. COORDINATE WITH PIPELINE COMPANY. PROVIDE MINIMUM 5' CLEARANCE BETWEEN GAS PIPELINE AND NEW WATER LINE.

3 GAS PIPELINE CROSSING N.T.S.



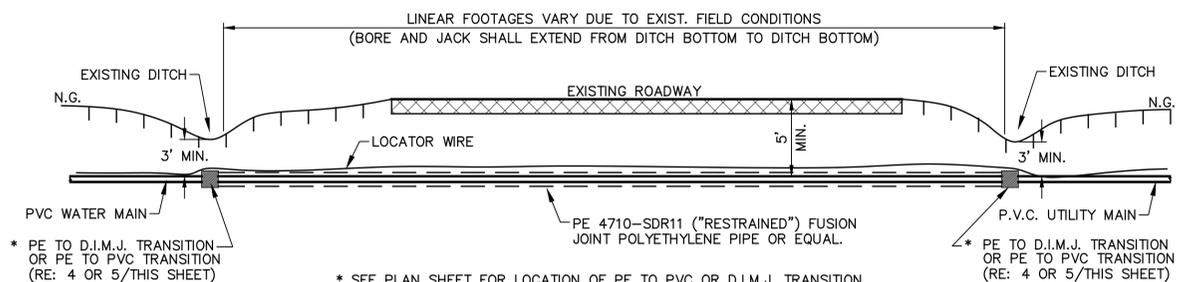
NOTE:
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5 POLYETHYLENE TO PVC TRANSITION N.T.S.



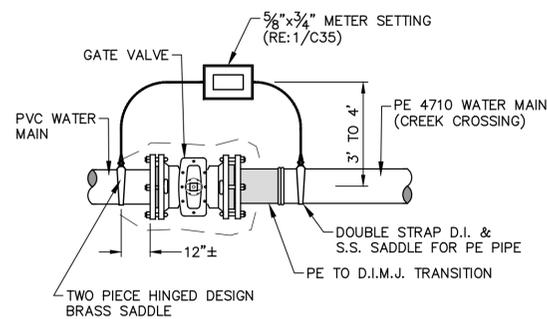
NOTES:
1) INSTALL PIPELINE MARKER AT EACH SIDE OF CREEK CROSSINGS.
2) WHEN PVC & PE WATER MAINS ARE IN-LINE, CONTRACTOR SHALL PROVIDE THE APPROPRIATE JOINT RESTRAINT ON ALL PIPE JOINTS WITHIN FORTY (40) LINEAR FEET OF THE PVC TO PE TRANSITION - SEE PLANS.

2 CREEK AND WETLANDS CROSSING N.T.S.

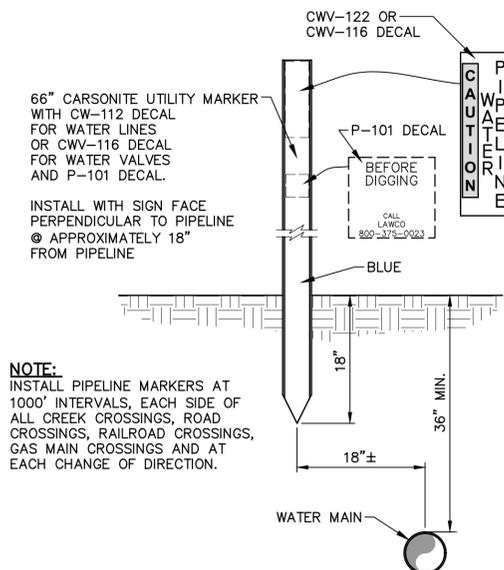


NOTES:
1. INSTALL PIPELINE MARKER AT EACH SIDE OF HIGHWAY CROSSINGS.
2. WHEN PVC & PE UTILITY MAINS ARE IN-LINE, CONTRACTOR SHALL PROVIDE THE APPROPRIATE JOINT RESTRAINT ON ALL PIPE JOINTS WITHIN FORTY (40) LINEAR FEET OF THE PVC TO PE TRANSITION.

1 HIGHWAY CROSSING (WITHOUT CASING) N.T.S.



7 LEAK DETECTION METTER SETTING N.T.S.



NOTE:
INSTALL PIPELINE MARKERS AT 1000' INTERVALS, EACH SIDE OF ALL CREEK CROSSINGS, ROAD CROSSINGS, RAILROAD CROSSINGS, GAS MAIN CROSSINGS AND AT EACH CHANGE OF DIRECTION.

6 WATER MAIN PIPELINE MARKER N.T.S.

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OWNER: NEBO WATER SYSTEM, INC.
PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
CONTRACT 4

SHEET NUMBER
54
OF 59



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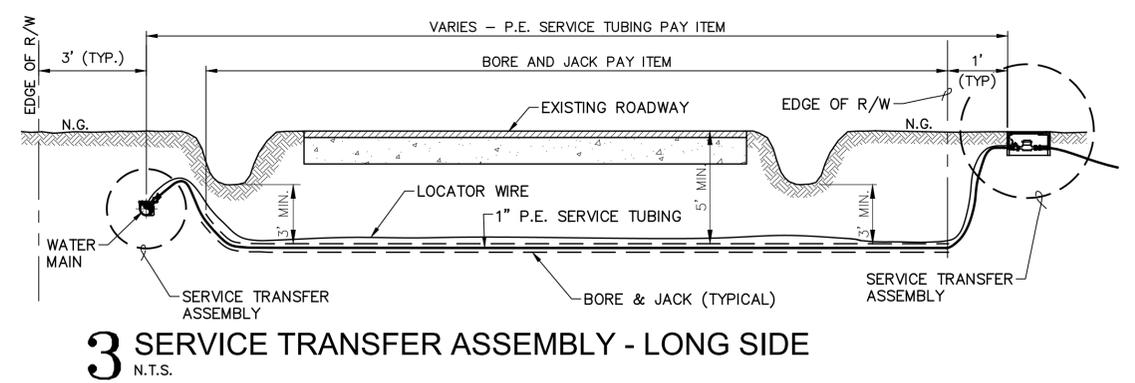
DRAWN BY P.A.E.
 DATE 10/2025

REVISION	DATE
CHECKED	T.C.D
BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER NEBO WATER SYSTEM, INC.
 PROJECT CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
55
 OF 59

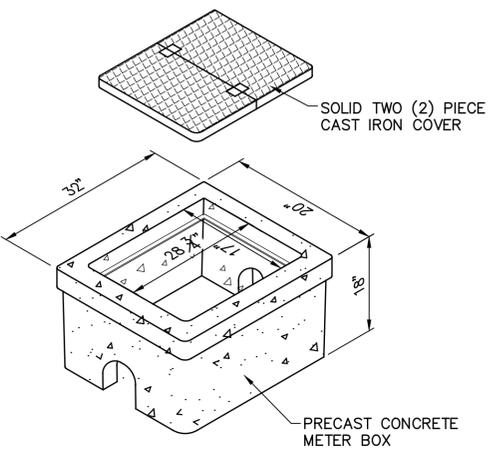


3 SERVICE TRANSFER ASSEMBLY - LONG SIDE
 N.T.S.

4 SERVICE ASSEMBLY NOTES

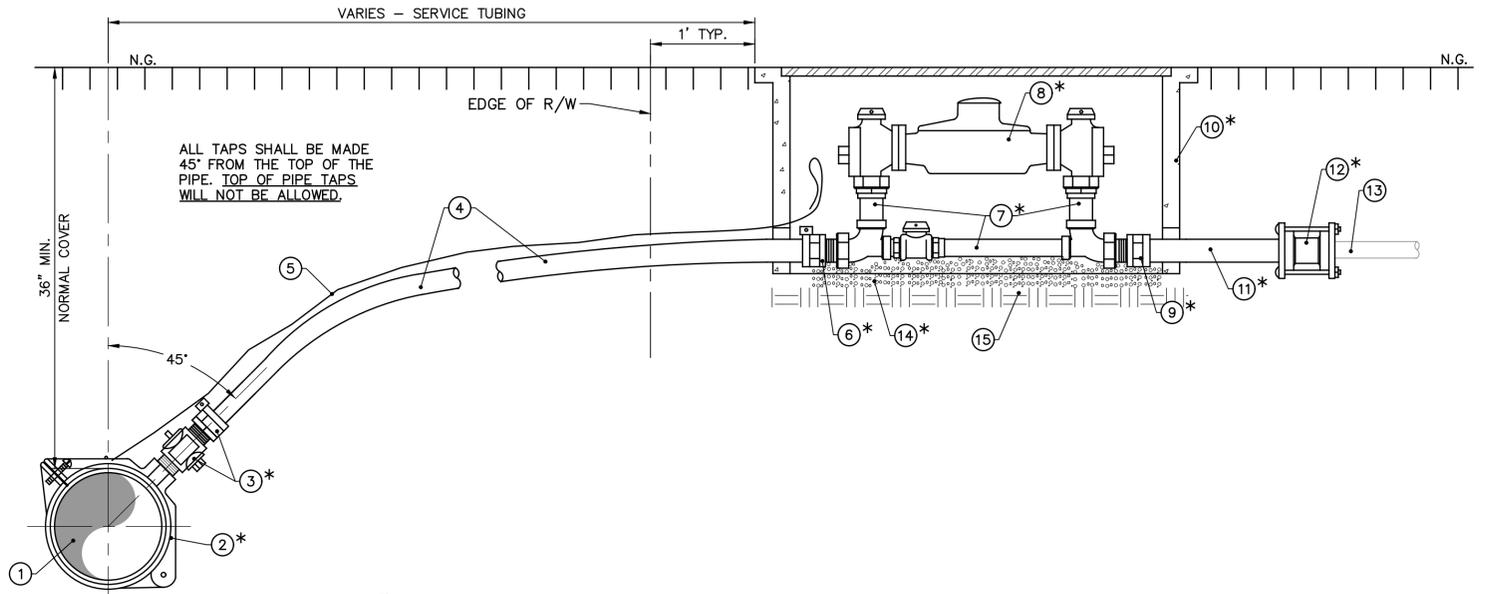
- N.T.S. SERVICES SHALL BE INSTALLED AFTER MAINS HAVE BEEN TESTED.
- SERVICE TUBING W/ LOCATOR WIRE INCLUDED IN SERVICE TUBING PAY ITEM.
- BORE & JACK OF "LONG SIDE" SERVICE TUBING INCLUDED IN BORE & JACK PAY ITEM.
- "*" INDICATES ITEMS INCLUDED IN WATER SERVICE TRANSFER ASSEMBLY PAY ITEM

7 RESERVED
 N.T.S.

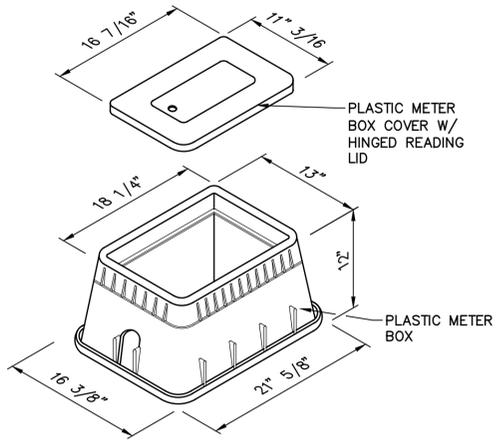


6 CONCRETE METER BOX
 N.T.S.

- LEGEND:
- ① WATER MAIN
 - * ② HINGED STRAP BRASS SADDLE
 - * ③ CORPORATION STOP W/ S.S. INSERT STIFFENER
 - ④ 2" SERVICE TUBING (PE 4710 DR9)
 - ⑤ METALLIC LOCATOR WIRE
 - * ⑥ 2" PACK JOINT COUPLING
 - * ⑦ 2" METER YOKE ASSEMBLY
 - ⑧ 2" WATER METER
 - * ⑨ 2" PVC FEMALE ADAPTOR
 - * ⑩ CONCRETE METER BOX (RE: DETAIL 6 THIS SHEET)
 - * ⑪ 2" PVC SCH. 40 PIPE (LENGTH AS REQUIRED)
 - * ⑫ COMPRESSION COUPLING
 - ⑬ EXISTING SERVICE LINE (SIZE MAY VARY)
 - * ⑭ 4" THICK WASHED ROAD GRAVEL
 - ⑮ UNDISTURBED SOIL OR COMPACTED BACKFILL

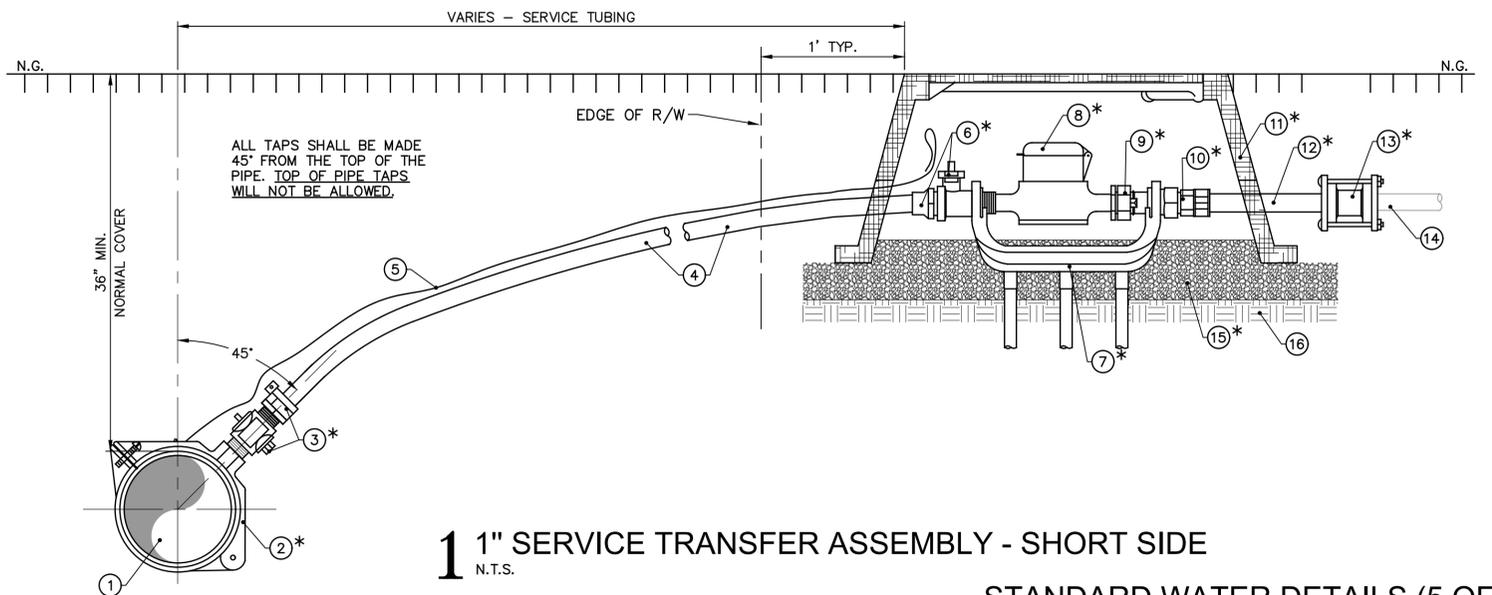


2 2" SERVICE TRANSFER ASSEMBLY - SHORT SIDE
 N.T.S.



5 PLASTIC METER BOX
 N.T.S.

- LEGEND:
- ① WATER MAIN
 - * ② HINGED STRAP BRASS SADDLE
 - * ③ CORPORATION STOP W/ S.S. INSERT STIFFENER
 - ④ 1" SERVICE TUBING (PE 4710 DR9)
 - ⑤ METALLIC LOCATOR WIRE
 - * ⑥ INLET VALVE
 - * ⑦ YOKE BAR W/ 3/4" IRON PIPE STAKE SUPPORTS
 - * ⑧ 5/8" x 3/4" WATER METER
 - * ⑨ EXPANSION CONNECTION
 - * ⑩ YOKE OUTLET COUPLING
 - * ⑪ METER BOX (RE: DETAIL 5 THIS SHEET)
 - * ⑫ 3/4" SCH. 40 PVC PIPE (LENGTH AS REQUIRED)
 - * ⑬ COMPRESSION COUPLING
 - ⑭ EXISTING SERVICE LINE (SIZE MAY VARY)
 - * ⑮ 4" THICK WASHED ROAD GRAVEL
 - ⑯ UNDISTURBED SOIL OR COMPACTED BACKFILL



1 1" SERVICE TRANSFER ASSEMBLY - SHORT SIDE
 N.T.S.

STANDARD WATER DETAILS (5 OF 5)

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THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



CALL LOUISIANA ONE CALL - JUST DIAL 811
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SCALE NOTE
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PAN AMERICAN ENGINEERS, LLC
 1717 JACKSON STREET (71301)
 P.O. BOX 8599 (71306)
 ALEXANDRIA, LA.

NEDO WATER SYSTEM, INC.

(318) 744-0308

24" x 18"

4 REQUIRED

WARNING

TAMPERING WITH THIS FACILITY IS A FEDERAL OFFENSE

24" x 18"

4 REQUIRED

RESTRICTED AREA

AUTHORIZED PERSONNEL ONLY

24" x 18"

4 REQUIRED

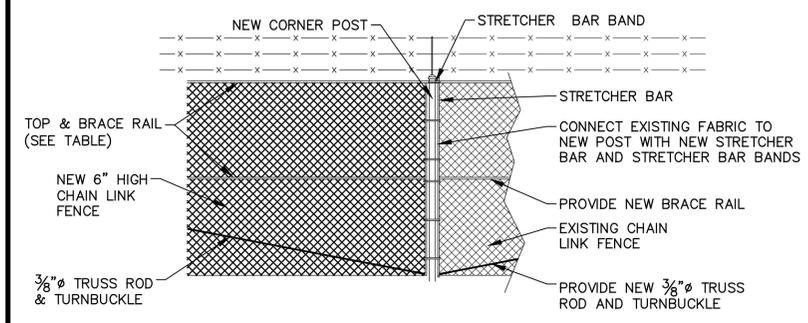
- NOTES:
- SIGN PANEL TO BE .040" ALUMINUM.
 - SIGN FACE TO BE REFLECTIVE.
 - SIGNS TO BE MANUFACTURED BY APPLE SIGNS (318) 640-0206 OR APPROVED EQUAL
 - INSTALL ON FENCE ON EACH SIDE OF THE WELL SITE

4 SIGN
 N.T.S.

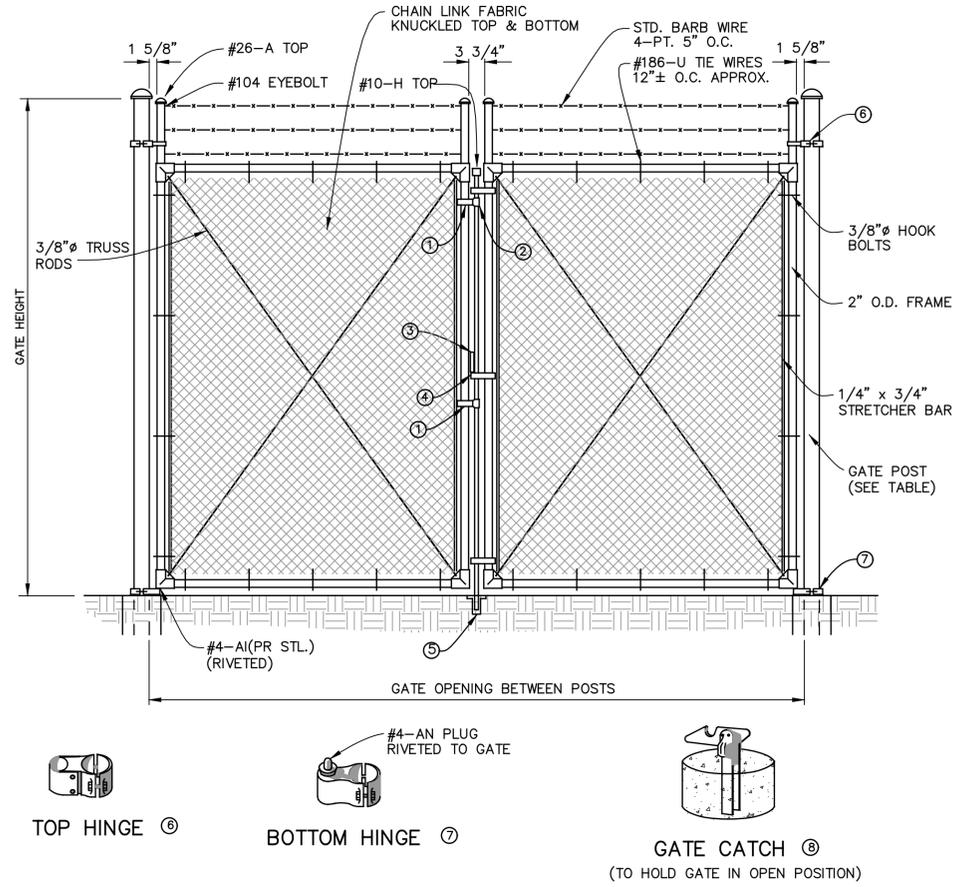
POST SIZE TABLE

LINE	ACTUAL OUTSIDE DIA. (INCHES)	LBS. (PER LIN. FT.)
POST	2 3/8	3.65
BRACE RAIL	1 5/8	2.27
BRACE RAIL	2 7/8	5.79
GATE POST	4.0	9.10
GATE FRAME	1 7/8	2.71

MINIMUM YIELD STRENGTH = 45 KSI, EXCEPT FOR 1.625 x 1.25 BRACE RAIL. SEE DETAIL.
 SEE ASTM A120 FOR ADDITIONAL DETAILS.
 ALTERNATE COATING REQUIREMENTS FOR ROUND SECTIONS- SECTIONS MAY BE EXTERNALLY COATED WITH NO LESS THAN 0.8 OZ./FT. OF HIGH GRADE OR SPECIAL HIGH GRADE ZINC CONFORMING TO ASTM B6, FOLLOWED BY CHROMATE CONVERSION COATING OF 30±10 MICRO-GRAMS /IN². AND AN ELECTROSTATICALLY APPLIED THERMOPLASTIC ACRYLIC COATING HAVING A MINIMUM DRY FILM THICKNESS OF 0.3 MIL. THE INTERNAL SURFACE SHALL BE COATED WITH A ZINC RICH COATING OF NO LESS THAN 81% ZINC POWDER BY WEIGHT, 0.3 MIL OR GREATER IN THICKNESS.

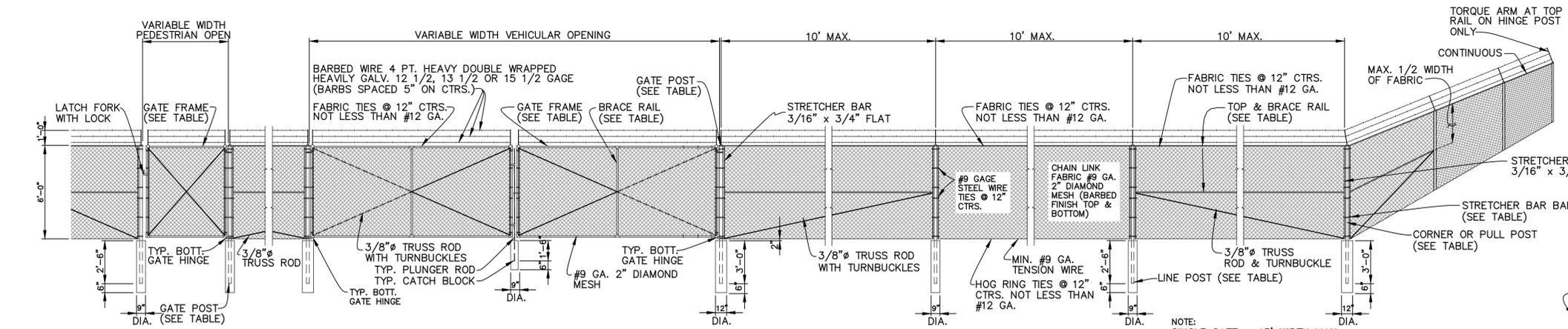


3 CONNECTION TO EXISTING CHAIN LINK FENCE
 N.T.S.



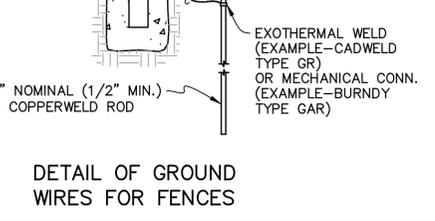
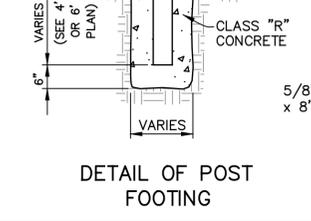
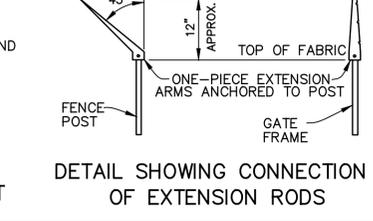
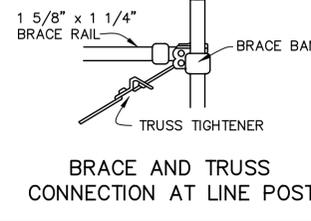
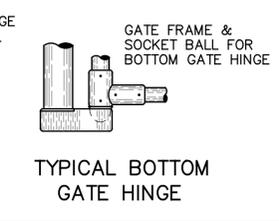
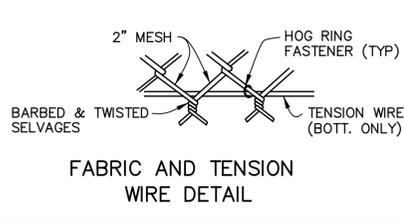
2 GATE
 N.T.S.

- REV. E
- LATCH FORK ①
- FORK CATCH ②
- PADLOCK KEEPER ③
- PADLOCK KEEPER GUIDE ④
- PLUNGER ROD CATCH ⑤
- TOP HINGE ⑥
- BOTTOM HINGE ⑦
- GATE CATCH ⑧ (TO HOLD GATE IN OPEN POSITION)



1 CHAIN LINK FENCE (6')
 N.T.S.

- NOTES:
- THE FENCE INSTALLATION AND DETAILS ARE TYPICAL AND MAY VARY IN ACCORDANCE WITH DIFFERENT MANUFACTURERS, PROVIDED THAT THEY MEET THE STANDARD SPECIFICATIONS.
 - TYPICAL INSTALLATION PLAN MAY VARY AS SHOWN ON THE PLANS OR AS DIRECTED BY ENGINEER. LOCATION OF GATES TO BE SHOWN ON PLANS.
 - GROUNDING DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 - CONNECTIONS TO ALUMINUM ALLOY OR ALUMINUM COATED FENCE WITH STEEL MECHANICAL CONNECTORS TO BE BRONZED.
 - ALL BOLTS TO BE UPSET TO DISCOURAGE VANDALISM.
 - ALL CONNECTION METHODS TO BE APPROVED BY PROJECT ENGINEER.



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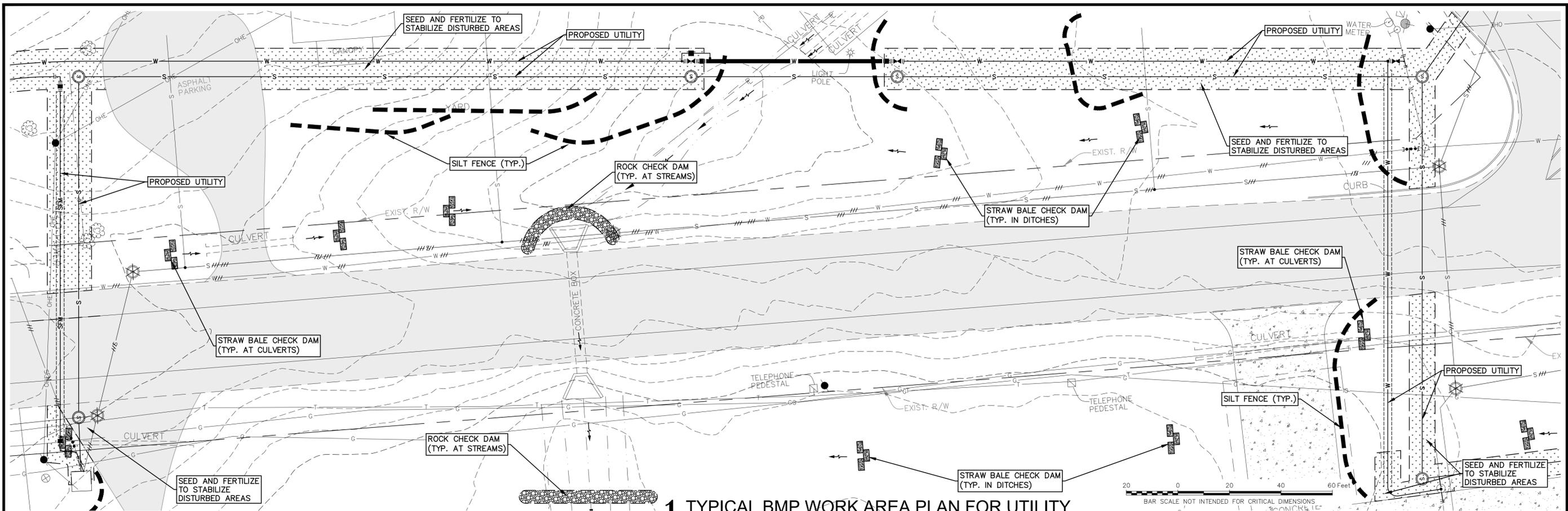
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 DATE 10/2025

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BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

SHEET NUMBER
57
 OF 59



1 TYPICAL BMP WORK AREA PLAN FOR UTILITY INSTALLATION AND DRAINAGE EXCAVATION (TYPICAL ALL WORK AREAS)

SCALE: 1"=20'

3 EROSION MAINTENANCE NOTES:

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE APPLICABLE PERMIT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN THE TOP OF SEDIMENT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
- CHECK DAMS SHALL BE CLEANED WHEN THE TOP OF SILT REACHES ONE HALF THE HEIGHT OF THE CHECK DAM.

SEEDING AREA	0.28 AC±
TOTAL DISTURBED	0.30 AC±

- ### 4 LEGEND
- ROCK CHECK DAM (RE: 3/58)
 - STRAW BALE CHECK DAM (RE: 4/58)
 - DIRECTION OF DRAINAGE FLOW
 - SILT FENCE (RE: 1 & 2/58)
 - SEEDING AND FERTILIZING

5 VICINITY MAP

(RE: 1/2)

2 EROSION CONTROL GENERAL NOTES

- ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THE STORM WATER POLLUTION PREVENTION PLAN SHEET, STORM WATER POLLUTION PREVENTION DETAIL SHEETS, SPECIFICATION SECTION 02002 ("SWPPP"), THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- CONTRACTORS SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE LOUISIANA POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (LPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA, EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES ETC. NOTE ANY CHANGES IN LOCATION AS THEY MAY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. THE EXACT LOCATIONS SHALL BE COORDINATED WITH THE PROJECT INSPECTOR.
- CONTRACTOR SHALL CONSTRUCT SILT FENCES, SILT DIKES, OR OTHER PHYSICAL BARRIERS AS NECESSARY AROUND DISTURBED AREAS TO CONTROL EROSION AND SILTATION.
- CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. THE EXACT LOCATIONS SHALL BE COORDINATED WITH THE PROJECT INSPECTOR.
- WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN THESE MATERIALS AND STORM WATER THAT IS DISCHARGED FROM THE SITE.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- IF SOIL STOCKPILING IS EMPLOYED ON THE SITE, SILT FENCES SHALL BE USED TO CONTAIN SEDIMENT.
- DUST ON THE SITE SHALL BE CONTROLLED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- CONTRACTOR SHALL INSTALL EROSION CONTROL BLANKETS ON FINISHED GRADED AND PREPARED SLOPES WHICH ARE STEEPER THAN 4:1. HYDRO-SEED AND FERTILIZER SHALL BE PLACED IMMEDIATELY PRIOR TO PLACEMENT OF BLANKETS IN ACCORDANCE WITH THE SPECIFICATIONS.
- DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, DIVERSION DITCHES, ROCK CHECK DAMS, ETC.) TO PREVENT EROSION AND ADDING ANY REQUIRED SUPPLEMENTAL MEASURES TO HELP EROSION AND STORM WATER POLLUTION ON ADJACENT PROPERTIES AND/OR WATERWAYS.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- DISTURBED PORTIONS OF THE SITE, WHERE CONSTRUCTION ACTIVITY WILL BE SUSPENDED FOR AT LEAST 21 DAYS, SHALL BE TEMPORARILY HYDRO-SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY IS COMPLETE SHALL BE PERMANENTLY HYDRO-SEEDED. THESE AREAS SHALL BE HYDRO-SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AND DISPOSED

- OF WITHIN 30 DAYS AFTER FINAL STABILIZATION. FINAL STABILIZATION HAS OCCURRED WHEN ALL SOIL DISTURBING ACTIVITIES ARE COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% FOR UNPAVED AREAS HAS BEEN EMPLOYED.
- ALL EROSION AND SEDIMENT CONTROL MEASURES, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
 - INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
 - SEEDING AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED, WATERED, AND/OR RESEEDED AS NEEDED.
 - SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
 - THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
 - THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
 - OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

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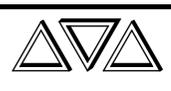
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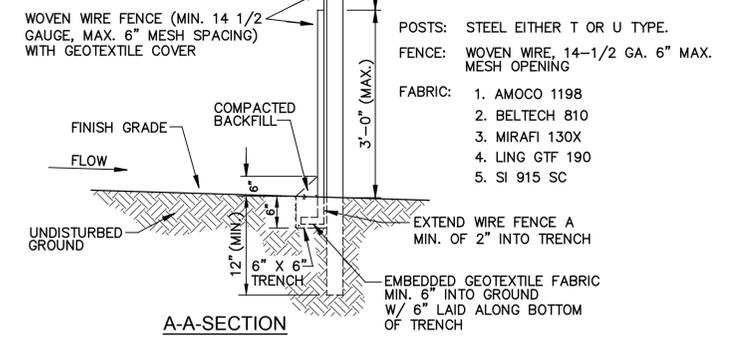
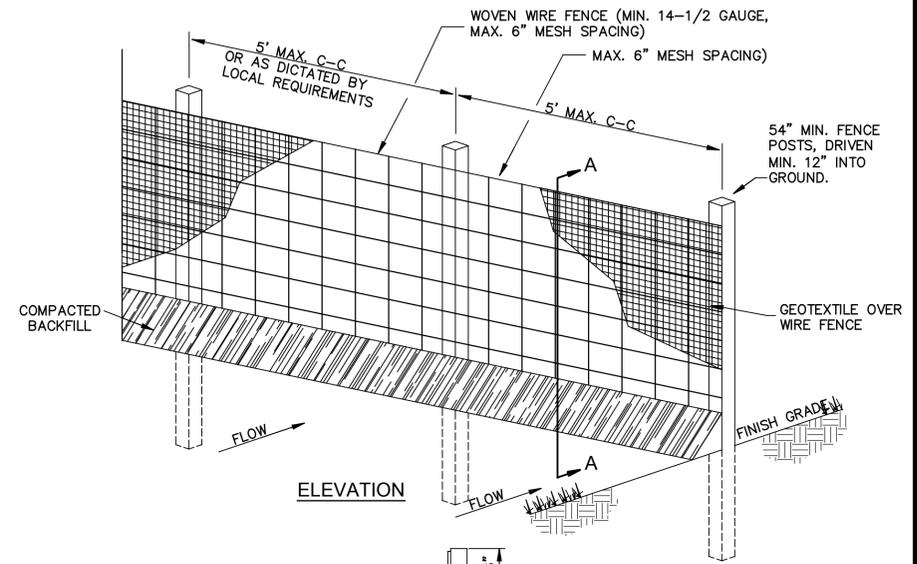
DRAWN BY: P.A.E.
 DATE: 10/2025

REVISION	DATE
CHECKED	T.C.D
BOOK NO.	N/A
JOB NO.	12641-4

DWG. NO. 14645
 SCALE SHOWN

OWNER: NEBO WATER SYSTEM, INC.
 PROJECT: CONSOLIDATION WITH THE MANIFEST-RHINEHART WATER SYSTEM, INC.
 CONTRACT 4

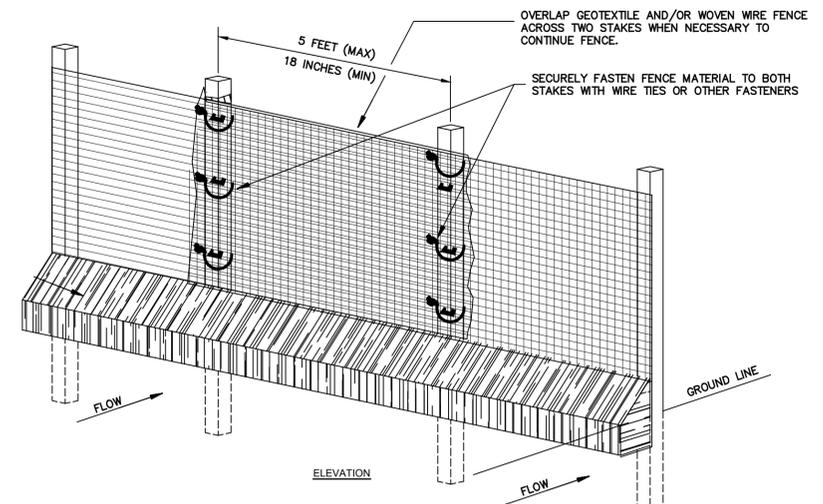
SHEET NUMBER
58
 OF 59



- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
- GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE.

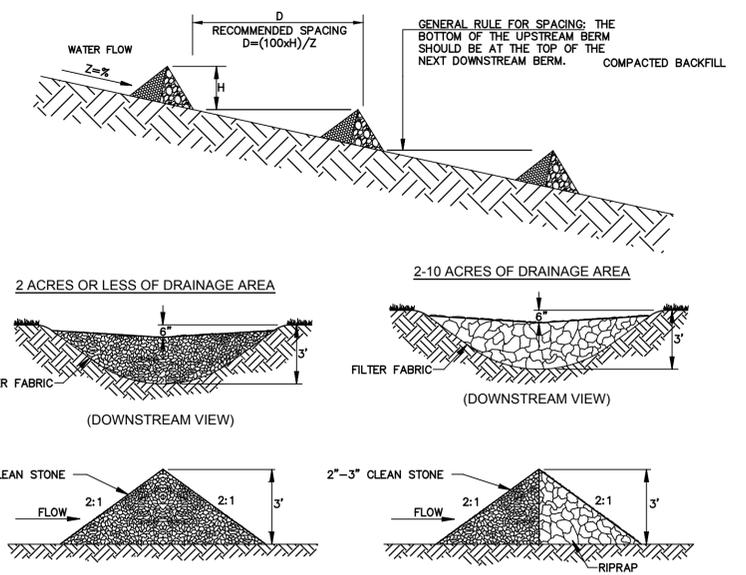
1 SILT FENCE WITH WIRE SUPPORT

N.T.S.



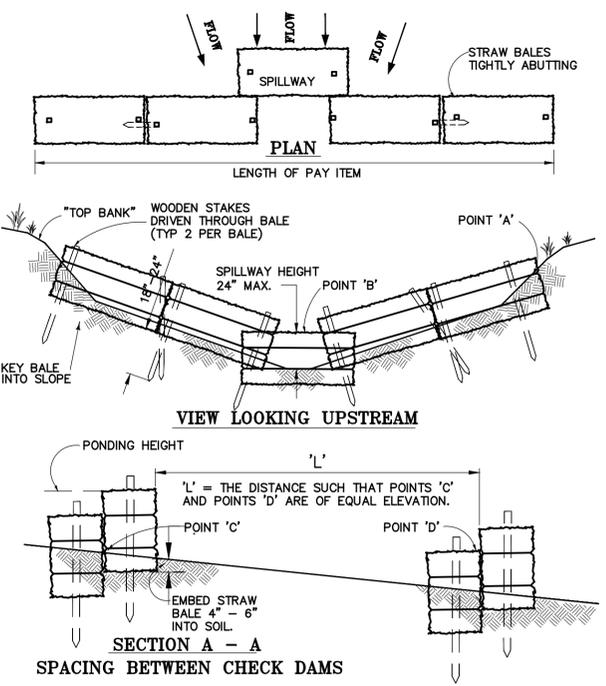
2 OVERLAP OF SEDIMENTATION/SILT FENCE

N.T.S.



3 ROCK CHECK DAM

N.T.S.



4 STRAW BALE CHECK DAM

N.T.S.

- NOTES:
- PLACE BALES IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE FLOW, AND WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
 - EACH BALE SHALL BE EMBEDDED IN THE SOIL 4"-6". USE STRAW OR FILTER FABRIC TO FILL ANY GAPS BETWEEN THE BALES & TAMP THE BACKFILL MATERIAL TO PREVENT EROSION UNDER OR AROUND THE BALES.
 - IF THE BALES ARE WIRE BOUND, THEY SHOULD BE ORIENTED SO THE BINDINGS ARE AROUND THE SIDES RATHER THAN ALONG THE TOP & BOTTOM TO PREVENT DISINTEGRATION OF WIRE.
 - THE BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO WOODEN STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TIGHTLY TOGETHER. DRIVE THE STAKES AT LEAST 18 INCHES INTO THE GROUND.
 - EXTEND THE BARRIER, ACROSS THE SWALE, TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE AT A HIGHER ELEVATION THAN THE TOP OF THE CENTER BALE TO ASSURE THAT SEDIMENT-LOADED RUNOFF WILL FLOW OVER THE BARRIER BUT NOT AROUND IT.
 - POINT 'A' MUST BE HIGHER THAN POINT 'B'. (SPILLWAY HEIGHT)
 - SPILLWAY HEIGHT SHALL NOT EXCEED 24".
 - THE STRAW BALE CHECK DAMS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAIN, UNTIL FINAL ACCEPTANCE. REPAIRS AND/OR REPLACEMENT SHALL BE MADE PROMPTLY.
 - SEDIMENT SHALL BE REMOVED WHEN THE BARRIER IS 60% FULL. THE REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE TO OFF-SITE SEDIMENT AND CAN BE PERMANENTLY STABILIZED.
 - MAINTENANCE OF THE STRAW BALE CHECK DAM.

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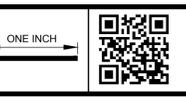
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SCALE NOTE
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ONE INCH

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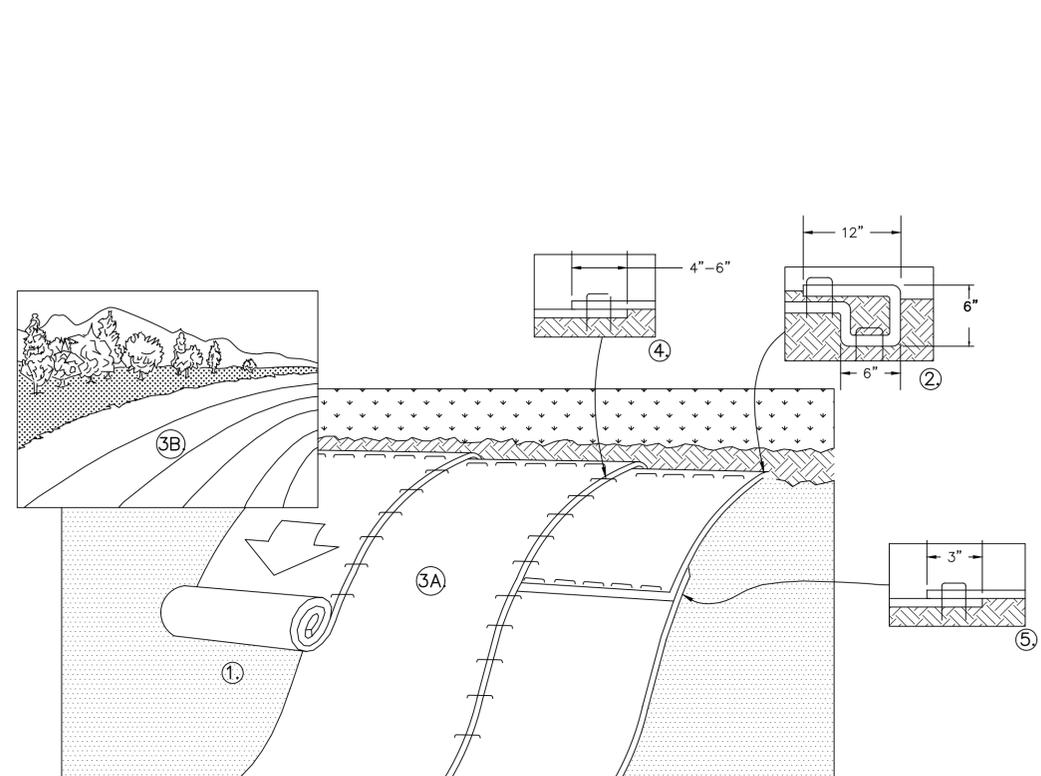
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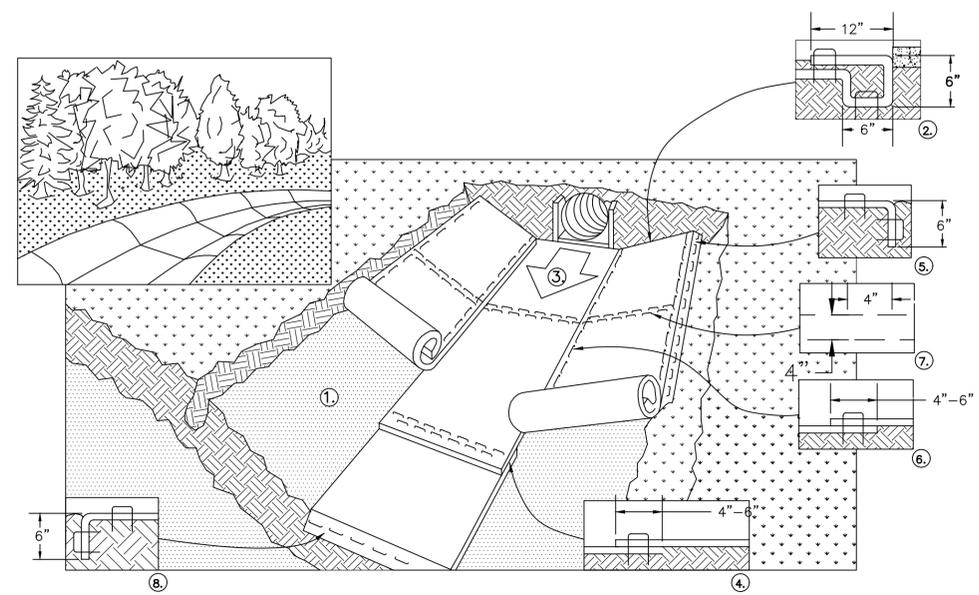
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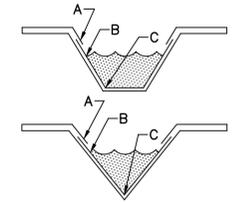


- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURERS RECOMMENDATION.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4"-6" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 - CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
 - PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
- NOTES:**
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
 - FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION

2 EROSION CONTROL BLANKET (SLOPE INSTALLATION)
 N.T.S.



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURERS RECOMMENDATIONS.
- PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
- FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 4"-6" (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
- IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
- THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- PLACE STAPLE/STAKES PER MANUFACTURERS RECOMMENDATION FOR THE APPROPRIATE CHANNEL FLOW OR SHORELINE APPLICATION



- CRITICAL POINTS**
- OVERLAPS AND SEAMS
 - PROJECTED WATER LINE
 - CHANNEL BOTTOM/SIDE SLOPE VERTICES

- NOTE:**
- HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
 - IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.
 - FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.

1 EROSION CONTROL BLANKET (CHANNEL INSTALLATION)
 N.T.S.

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