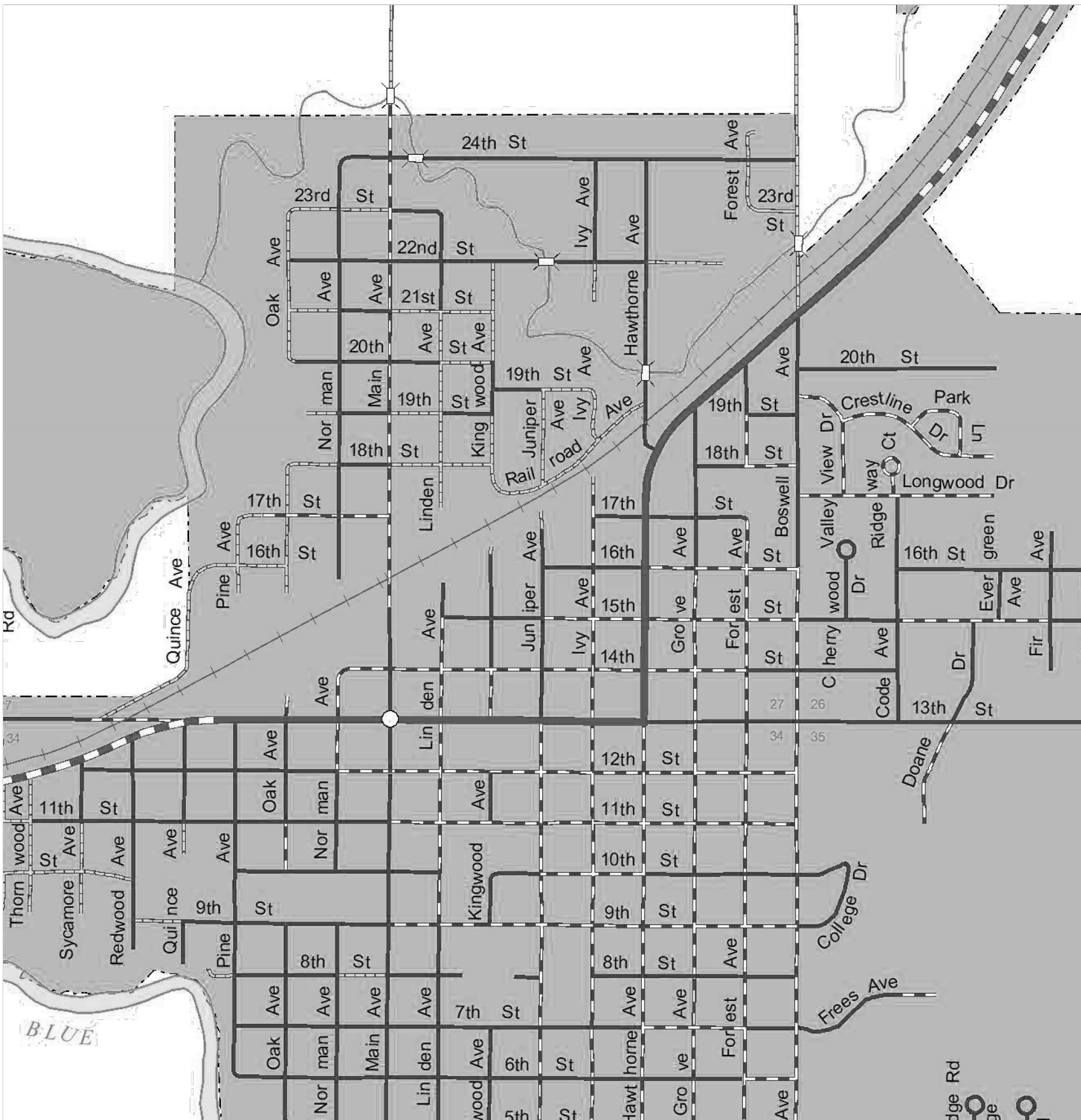


WALNUT CREEK SEWER REPAIR

CITY OF CRETE NEBRASKA
243 EAST 13TH STREET
CRETE, NE 68333

JEO Project No.: 241729.00

LOCATION MAP



Scale: N.T.S.

SHEET IDENTIFICATION

DISCIPLINE DESIGNATOR	
G	GENERAL
C	CIVIL
A	ARCHITECTURAL
S	STRUCTURAL
M	MECHANICAL
P	PLUMBING
E	ELECTRICAL

SHEET TYPE DESIGNATOR	
0	GENERAL
1	PLANS AND COMBINATION PLAN & PROFILE
2	ELEVATIONS AND PROFILES
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	SCHEDULES AND DIAGRAMS
7	NOT USED
8	NOT USED
9	3D REPRESENTATIONS

CONTACTS

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243 EAST 13TH STREET
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COORDINATING PROFESSIONAL:



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ABEAUCLAIR@JEO.COM
P: 402.474.8744

I, AARON D. BEAUCLAIR, am the coordinating professional on the Walnut Creek Sewer Repair project.

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TOM.OURADA@CRETE.NE.GOV
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Contact Info:
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ELECTRIC:

Contact Info:
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TOM.OURADA@CRETE.NE.GOV
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TELEPHONE:

Contact Info:
WINDSTREAM COMMUNICATIONS
P: 1.866.445.8084

FIBER OPTIC:

Contact Info:
ALLO COMMUNICATIONS LLC
P: 515.635.4610

INDEX OF SHEETS

SHEET NO.	SHEET NAME
G001	COVER
G002	SYMBOLS
V101	HORIZONTAL AND VERTICAL CONTROL
C101	SITE PLAN
C102	BYPASS PUMPING PLAN
C201	PLAN AND PROFILE
C501	DETAILS
S501	STRUCTURAL DETAIL



JEO CONSULTING GROUP

1937 N CHESTNUT ST
WAHOO, NE 68066
800.723.8567 | jeo.com

Organization Certificate of
Authorization Number: CA-0069

JEO CONSULTING GROUP
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800.723.8567

THIS DOCUMENT WAS
ORIGINALLY SIGNED
ON 10/29/2024 BY
AARON D. BEAUCLAIR,
A LICENSED
PROFESSIONAL
ENGINEER IN THE
STATE OF NEBRASKA
E-16150

ISSUE

MARK	DATE	DESCRIPTION
FD	10/28/2024	FINAL

WALNUT CREEK SEWER REPAIR

CRETE, NEBRASKA

LAT: 40°38'03.62" N
LONG: 96°57'32.63" W

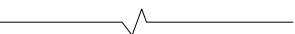
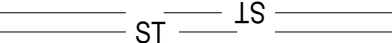
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Drawn by:	ADP
QAQC:	EEJ - 10/17/2024



COVER

G001

LINESTYLES


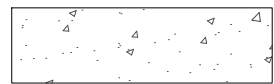
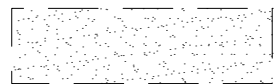
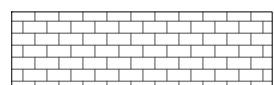

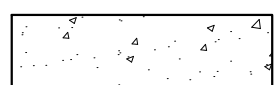


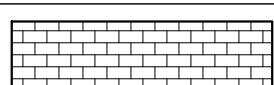
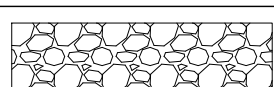
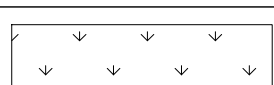

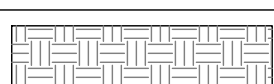

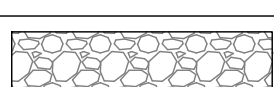
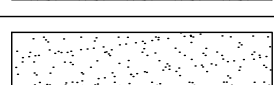
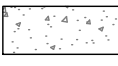


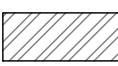
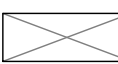
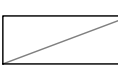
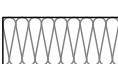

ITEM	SYMBOL
BREAK LINE	
CABLE TELEVISION	— UTV ——— UTV ———
CABLE TV (NS)	— <UTV> ——— <UTV> ———
CENTERLINE OF ROAD	— — — — —
CONTOUR MINOR (EX)	— — — — 1202 — — — —
CONTOUR MAJOR (EX)	— — — — 1200 — — — —
CONTOUR MINOR (EX,SCREENED)	— — — — 1202 — — — —
CONTOUR MAJOR (EX,SCREENED)	— — — — 1200 — — — —
CONTOUR MINOR (PR)	— — — — 1202 — — — —
CONTOUR MAJOR (PR)	— — — — 1200 — — — —
LIMITS OF CONSTRUCTION	— LOC ——— LOC ———
CULVERT	 ST ——— JS
ELECTRIC (OVHD)	— OHE ——— OHE ———
ELECTRIC (OVHD, NS)	— <OHE> ——— <OHE> ———
ELECTRIC (UGND)	— UGE ——— UGE ———
ELECTRIC (UGND, NS)	— <UGE> ——— <UGE> ———
FENCE (WOODEN)	— □ — □ — □ — □ — □ —
FENCE (WIRE OR UNKNOWN)	— x — x — x — x — x —
FENCE (CHAINLINK)	— ○ — ○ — ○ — ○ —
FENCE (SECURITY)	— △ — △ — △ — △ —
FIBER OPTIC LINE	— FO ——— FO ———
FIBER OPTIC LINE (NS)	— <FO> ——— <FO> ———
FLOWLINE (BREAKLINE)	— · · · · ·
GAS LINE	— G ——— G ———
GAS LINE (NS)	— <G> ——— <G> ———
GUARDRAIL	— · · · · ·
PROPERTY BOUNDARY	— — — — —
PROPERTY LOT LINES (PR)	— — — — —
PROPERTY LINES (EX,NS)	— — — — —
RIGHT-OF-WAY LINE	— ROW ——— ROW ———
RAILROAD RIGHT-OF-WAY	— RR ROW — — — — —
RAILROAD TRACKS	— + + + + +
RETAINING WALL	— = = = = =
SANITARY SEWER (EX)	— ——— 8" SAN ———
SANITARY SEWER (NS)	— — <SAN> ——— <SAN> ———
SANITARY SEWER (PR)	— ——— 8" SAN ———
SAN SEWER FORCE MAIN (EX)	— ——— 8" FM ——— 8" FM ———
SAN SEWER FORCE MAIN (PR)	— ——— 8" FM ———
STORM SEWER (EX)	— ——— ST ——— 12" ST ——— (OFFSET TO PIPE SIZE)
STORM SEWER (NS)	— — <ST> ——— <ST> ———
STORM SEWER (PR)	— ——— 12" ST ——— (OFFSET TO PIPE SIZE)
TELEPHONE LINE (UGND)	— UGT ——— UGT ———
TELEPHONE LINE (UGND,NS)	— — <UGT> ——— <UGT> ———
TELEPHONE LINE (OVHD)	— OHT ——— OHT ———
TELEPHONE LINE (OVHD,NS)	— — OHT ——— OHT ———
TERRACE	— ∇ — ∇ — ∇ — ∇ — ∇ —
CROPLINE	— ∇ ——— ∇ ———
TRAVELED WAY	— — — — —
WATER (EX)	— ——— 6" W ——— 6" W ———
WATER (NS)	— — <W> ——— <W> ———
WATER (PR)	— ——— 6" W ——— 6" W ———
FIRE SERVICE	— ——— 6" F ——— 6" F ———
EXISTING	EX
EXISTING, NOT-SURVEYED	NS
PROPOSED	PR
OVERHEAD	OVHD
UNDERGROUND	UGND

RECORD DRAWINGS





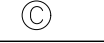
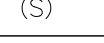


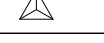
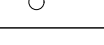

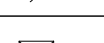
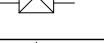


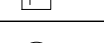



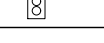

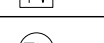
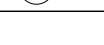
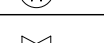

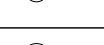
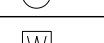

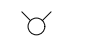


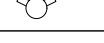

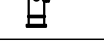
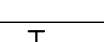
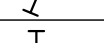
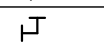
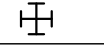
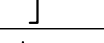
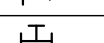
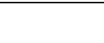


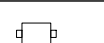


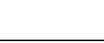

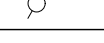

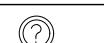





THESE RECORD DRAWINGS REPRESENT A
COMPILATION OF INFORMATION AND FIELD
MEASUREMENTS PROVIDED BY OTHERS. ALL
DIMENSIONS AND DTAILS HAVE NOT BEEN
VERIFIED BY JEO CONSULTING GROUP, INC.

CONSTRUCTION COMPLETED 04/2025
















COMMON HATCHING

ITEM	HATCH
ASPHALT PAVEMENT (EX.)	
CONCRETE PAVEMENT (EX.)	
GRAVEL (EX.)	
BRICK PAVEMENT (EX.)	
ASPHALT PAVEMENT (PR.)	
CONCRETE PAVEMENT (PR.)	
CONCRETE SIDEWALK (PR)	
GRAVEL (PR.)	
BRICK PAVEMENT (PR.)	
RIP RAP	
SEEDING	
MATTING	
UNDISTURBED EARTH	
EARTH	
GRANULAR FILL	
SAND MORTAR, PLASTER	
CONCRETE	
BRICK	
CONCRETE BLOCK	
METAL	
WOOD FRAMING	
WOOD FRAMING INTERRUPTED MEMBER	
BATT INSULATION	
RIGID INSULATION	







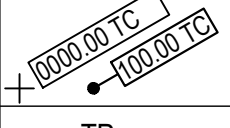
UTILITIES

ITEM	SYMBOL
STORM SEWER	
CURB INLET	
GRATE INLET	
CATCH BASIN	
STORM SEWER MANHOLE	
SANITARY	
CLEANOUT	
SEPTIC TANK	
SANITARY MANHOLE	
POWER, ELECTRICAL, LIGHT, AND TRAFFIC	
AIR CONDITIONING UNIT	
ANTENNA	
ANCHOR POLE/POST	
GUY POLE	
GUY WIRE ANCHOR	
ELECTRICAL HIGHLINE TOWER (METAL OR CONCRETE)	
POWER POLE (EXISTING)	
POWER POLE (PROPOSED)	
POWER (ELEC) PEDESTAL	
POWER (ELEC) PULL BOX OR MANHOLE	
POWER (ELEC) METER	
LIGHT POLE	
TRAFFIC SIGNAL	
TRAFFIC SIGNAL BOX	
TELEVISION PEDESTAL	
TELEVISION MANHOLE	
WATER	
WATER MANHOLE	
WATER VALVE	
WATER SHUT OFF OR CURB STOP	
WELL	
WATER METER	
WATER METER PIT	
YARD HYDRANT	
WATER ELEVATION	
WATER TOWER	
FIRE HYDRANT (EXISTING)	
FIRE HYDRANT (PROPOSED)	
FIRE HYDRANT IN PROFILE	
WATER FITTINGS	
11- 1/4"	
22- 1/2"	
45°	
90°	
CROSS	
PLUG	
REDUCER	
TEE	
GAS	
GAS METER	
GAS MANHOLE	
GAS FILL PIPE	
GAS PUMP	
GAS VALVE	
GAS VENT	
TELEPHONE	
FIBER OPTICS PULL BOX	
TELEPHONE POLE	
TELEPHONE PULL BOX OR MANHOLE	
TELEPHONE PEDESTAL	
MANHOLE (NON-SPECIFIC)	
UNDERGRND STORAGE TANK	
VALVE (NON-SPECIFIC)	










SITE & SIGNAGE

ITEM	SYMBOL
SIGN	
BARRICADE	
ROAD SIGNS	
COUNTY ROAD	
INTERSTATE HIGHWAY	
STATE HIGHWAY	
U.S. HIGHWAY	
MILE MARKER POST	
RIGHT OF WAY MARKER	
RAILROAD CROSSING SIGNAL	
RAILROAD SWITCH	
FLAG POLE	
MAILBOX	
PROPANE TANK	
SATELLITE TV DISH	
WINDMILL	


CONTROL & ELEVATION

ITEM	SYMBOL
BENCHMARK	
CONTROL POINT (NON-PROPERTY)	
MONUMENT FOUND (PROPERTY)	
MONUMENT SET	
TEMPORARY POINT	
TEST BORING	
POINT ELEVATION (EXISTING)	× 0.00
POINT ELEVATION (PROPOSED)	
TOP OF PAVEMENT	TP
TOP OF CURB	TC
GROUND	GR
TOP OF WALL	TW
BOTTOM OF WALL	BW
FLOWLINE	FL
GRID TICK	+







MISC FEATURES

ITEM	SYMBOL
CENTER PIVOT	
CEMETERY	
GRAVE	
CHURCH	
CAVE	
CISTERN	
LATRINE	
OIL WELL	
GUARD POST	

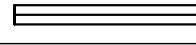


PAVING FEATURES

ITEM	SYMBOL
EXISTING PAVEMENT JOINT	— — — — —
TRANSVERSE JOINT	— — — — —
LONGITUDINAL JOINT	— — — — —
EXPANSION/KEYED JOINT	— + + + + —
PAVEMENT MARKING	— — — — —
PAVEMENT REBAR	— — — — —
HANDICAP SYMBOL	


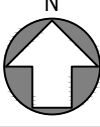
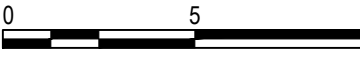
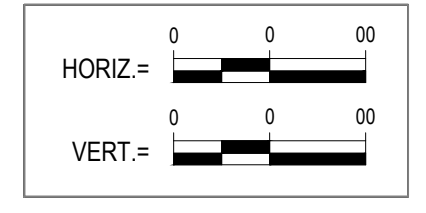

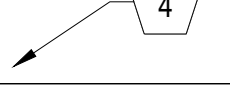
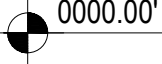
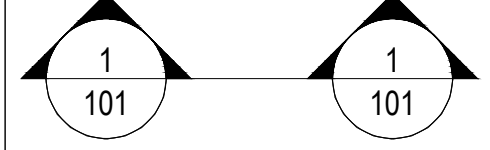
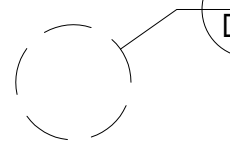
VEGETATION

ITEM	SYMBOL
BUSH	
CONIFEROUS TREE	
DECIDUOUS TREE	
MARSH/WETLAND	
TREE MASS LINE	
TREE STUMP	

SWPPP

ITEM	SYMBOL
SILT FENCE	— SF ——— SF ———
INLET PROTECTION	— ● — ● — ● — ● —
STRAW WATTLE CHECK	— — — — —
STRAW BALE CHECK	
FLOW ARROW (PLAN)	
AREA INLET FILTER PROTECTION	

GENERAL

ITEM	SYMBOL
PLAN REVISION	
NORTH ARROW	
GRAPHIC SCALE PLAN	
GRAPHIC SCALE PROFILE/ CROSS SECTION	
KEYNOTE OR TABULAR NOTE	
REFERENCED NOTE	
ELEVATION	
SECTION	
ENLARGED DETAIL	



JEO CONSULTING GROUP

1937 N CHESTNUT ST
WAHOO, NE 68066
800.723.8567 | jeo.com

Organization Certificate of
Authorization Number: CA-0069

[Consultant Title and Discipline]
Organization Certificate of
Authorization Number: [XX-000]
[Address Line 1]
[City, State 000000]
[000.000.0000]

THIS DOCUMENT WAS
ORIGINALLY SIGNED
ON 10/29/2024 BY
AARON D. BEAUCLAIR,
A LICENSED
PROFESSIONAL
ENGINEER IN THE
STATE OF NEBRASKA
E-16150

ISSUE

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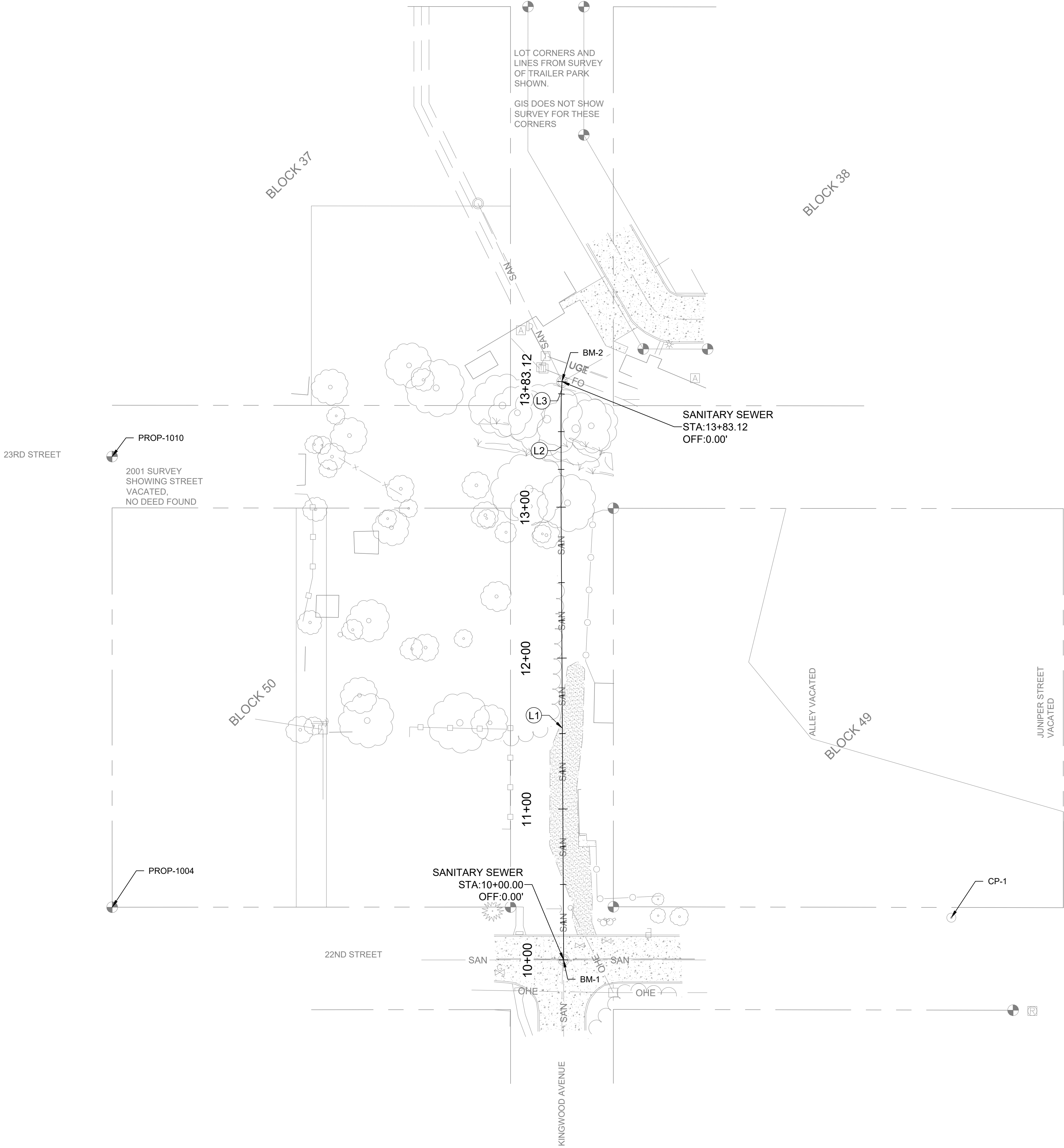
WALNUT CREEK SEWER REPAIR

CRETE, NEBRASKA
LAT: 40°38'03.62" N
LONG: 96°57'32.63" W

JEO Project No.:	241729.00
Sheet Size:	22" x 34"
Drawn by:	ADP
QAQC:	EEJ - 10/17/2024



SYMBOLS



NOTE:
CONSTRUCTION BENCHMARKS WILL BE ESTABLISHED
BY JEO AT THE TIME OF CONSTRUCTION

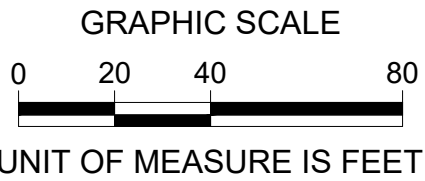
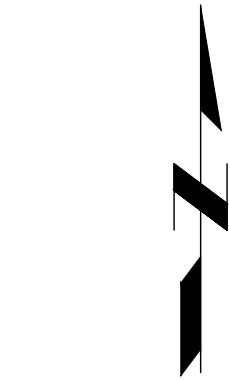
HORIZONTAL SURVEY CONTROL - SALINE COUNTY LDP				
POINT NAME	NORTHING US SURVEY FEET	EASTING US SURVEY FEET	LONG DESCRIPTION	
CP-1	108198.82	131070.90	MAG NAIL SET IN CONCRETE SIDE WALK	
PROP-1004	108205.76	130515.09	5/8" REBAR	
PROP-1010	108504.35	130515.03	5/8" REBAR	

BENCHMARKS - NAV88				
POINT NAME	NORTHING US SURVEY FEET	EASTING US SURVEY FEET	ELEVATION	LONG DESCRIPTION
BM-1	108171	130814	1353.33	SAMH RIM
BM-2	108554	130813	1352.83	SAMH RIM

SANITARY SEWER ALIGNMENT				
NUMBER	LENGTH	LINE/CHORD DIR	START STATION, N, E	END STATION N, E
L1	307.00	N00°19'13"W	10+00.00, 108170.84, 130814.14	13+07.00, 108477.84, 130812.43
L2	66.00	N00°06'29"E	13+07.00, 108477.84, 130812.43	13+73.00, 108543.84, 130812.55
L3	10.12	N02°51'57"E	13+73.00, 108543.84, 130812.55	13+83.12, 108553.95, 130813.06

LEGEND

SYMBOL	DESCRIPTION
0+00 1+00	BASLINE ALIGNMENT (DESIGN)
(C1)	BASLINE ALIGNMENT CURVE TAG LABEL
(L1)	BASLINE ALIGNMENT LINE TAG LABEL
	BASLINE ALIGNMENT PI POINT
○	POINT OF CURVATURE OR TANGENCY



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CONSTRUCTION COMPLETED 04/2025



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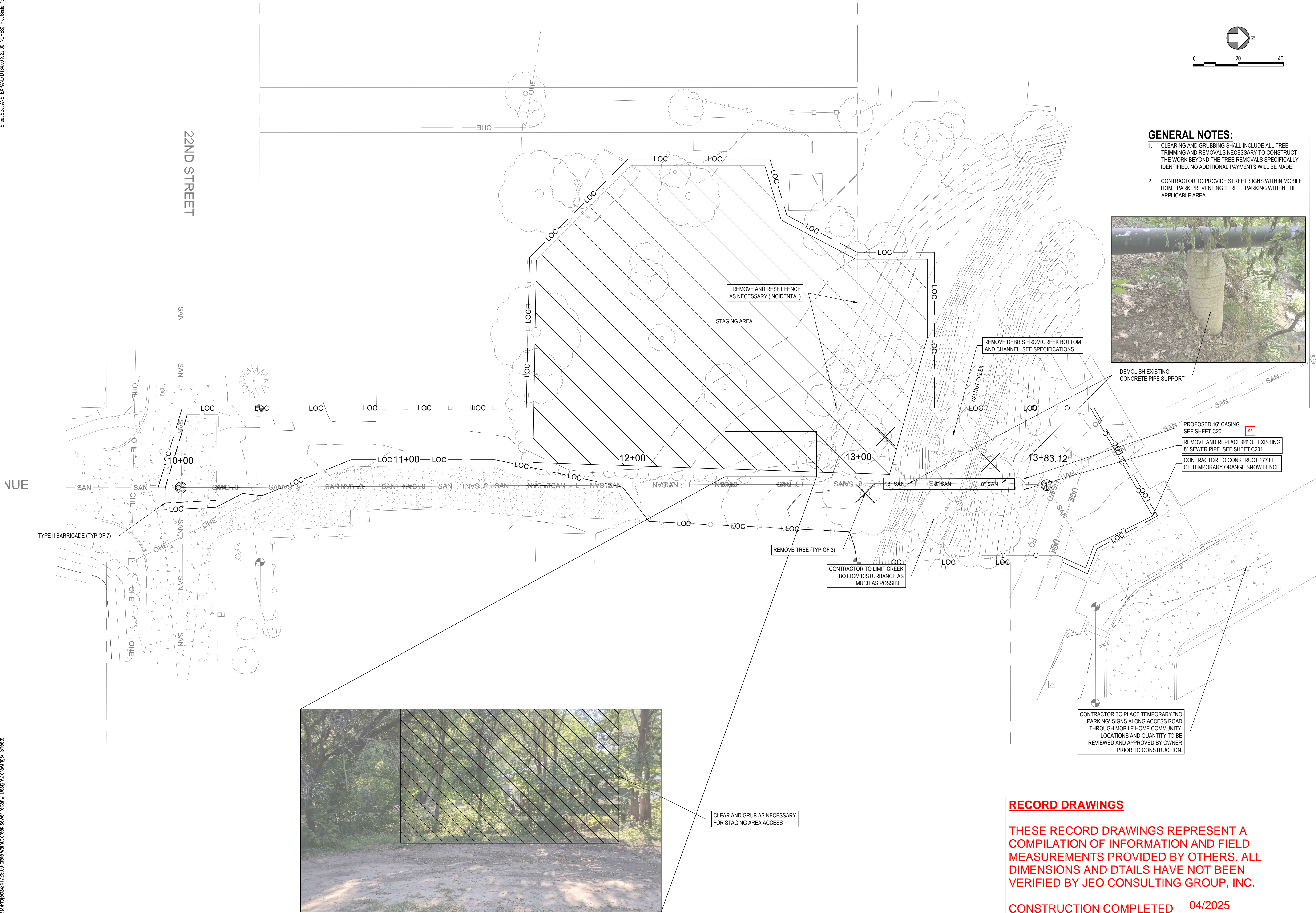
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Additional Project Info:



HORIZONTAL ALIGNMENT AND
CONTROL



GENERAL NOTES:

- CLEARING AND GRUBBING SHALL INCLUDE ALL TREE TRIMMING AND REMOVALS NECESSARY TO CONSTRUCT THE WORK BEYOND THE TREE REMOVALS SPECIFICALLY IDENTIFIED. NO ADDITIONAL PAYMENTS WILL BE MADE.
- CONTRACTOR TO PROVIDE STREET SIGNS WITHIN MOBILE HOME PARK PREVENTING STREET PARKING WITHIN THE APPLICABLE AREA.



PROPOSED 16" CASING.
SEE SHEET C201

REMOVE AND REPLACE 96' OF EXISTING
8" SEWER PIPE. SEE SHEET C201

CONTRACTOR TO CONSTRUCT 177 LF
OF TEMPORARY ORANGE SNOW FENCE

CONTRACTOR TO PLACE TEMPORARY "NO
PARKING" SIGNS ALONG ACCESS ROAD
THROUGH MOBILE HOME COMMUNITY.
LOCATIONS AND QUANTITY TO BE
REVIEWED AND APPROVED BY OWNER
PRIOR TO CONSTRUCTION.

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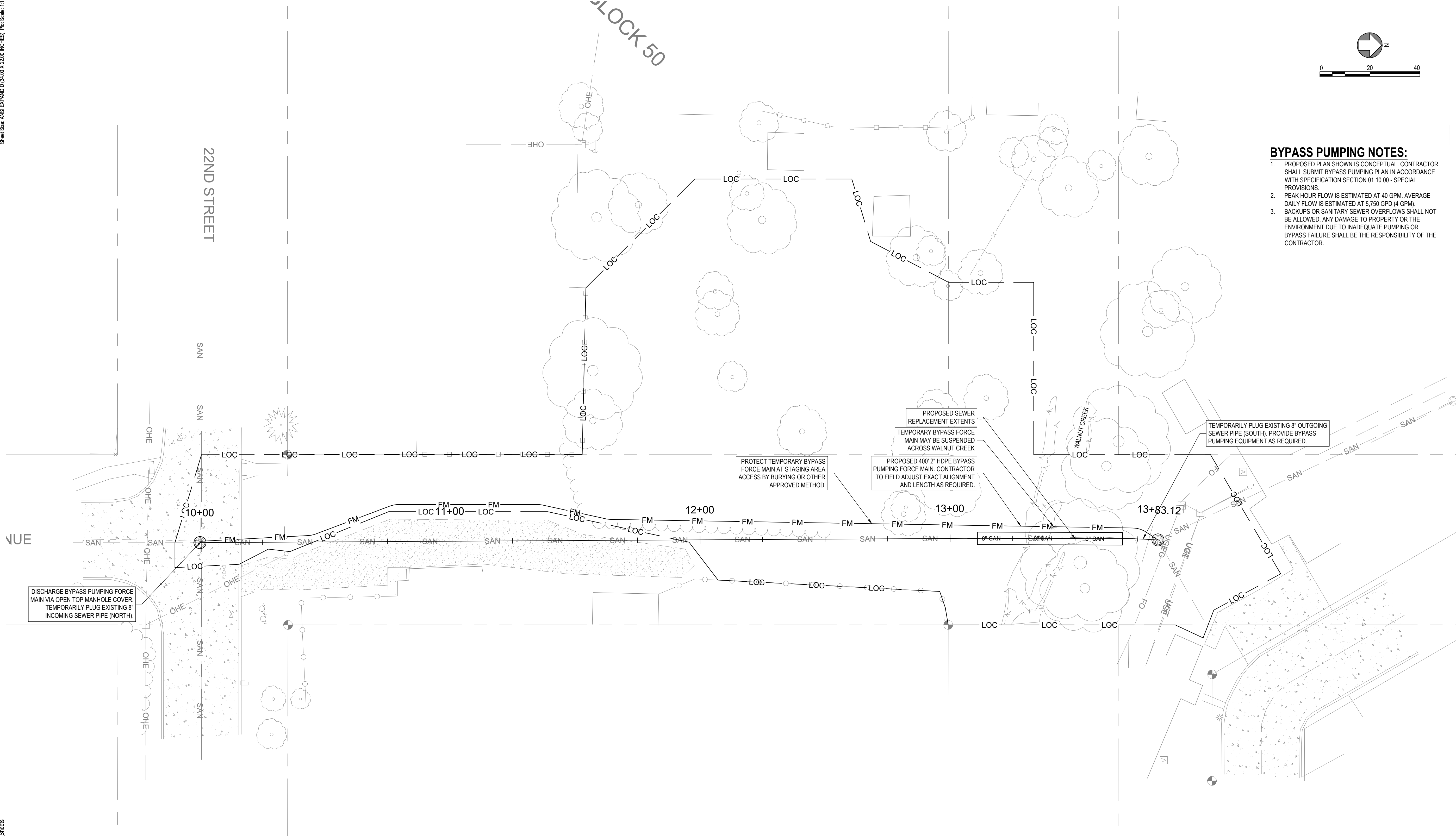
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SITE PLAN



BYPASS PUMPING NOTES:

1. PROPOSED PLAN SHOWN IS CONCEPTUAL. CONTRACTOR SHALL SUBMIT BYPASS PUMPING PLAN IN ACCORDANCE WITH SPECIFICATION SECTION 01 10 00 - SPECIAL PROVISIONS.
2. PEAK HOUR FLOW IS ESTIMATED AT 40 GPM. AVERAGE DAILY FLOW IS ESTIMATED AT 5,750 CPD (4 GPM).
3. BACKUPS OR SANITARY SEWER OVERFLOWS SHALL NOT BE ALLOWED. ANY DAMAGE TO PROPERTY OR THE ENVIRONMENT DUE TO INADEQUATE PUMPING OR BYPASS FAILURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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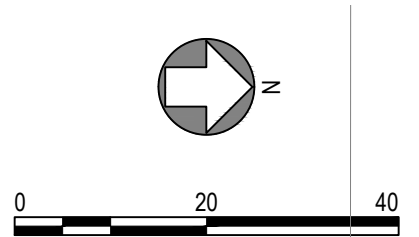
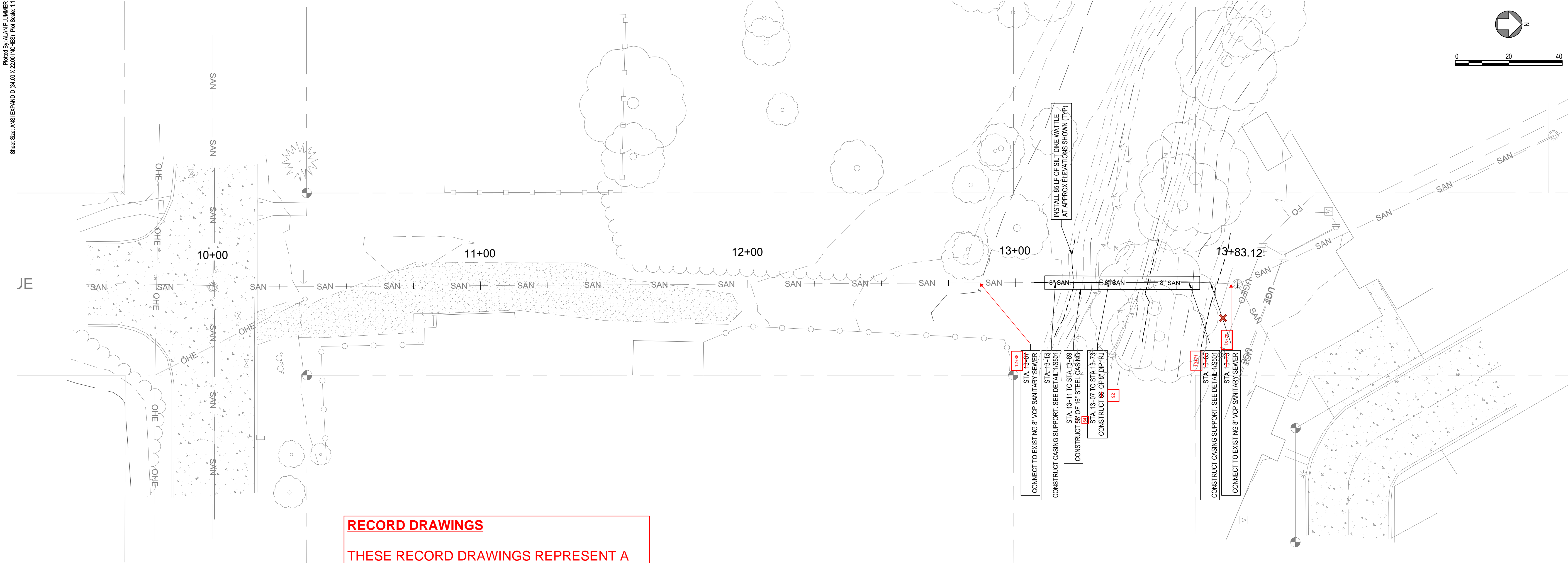


BYPASS PUMPING PLAN

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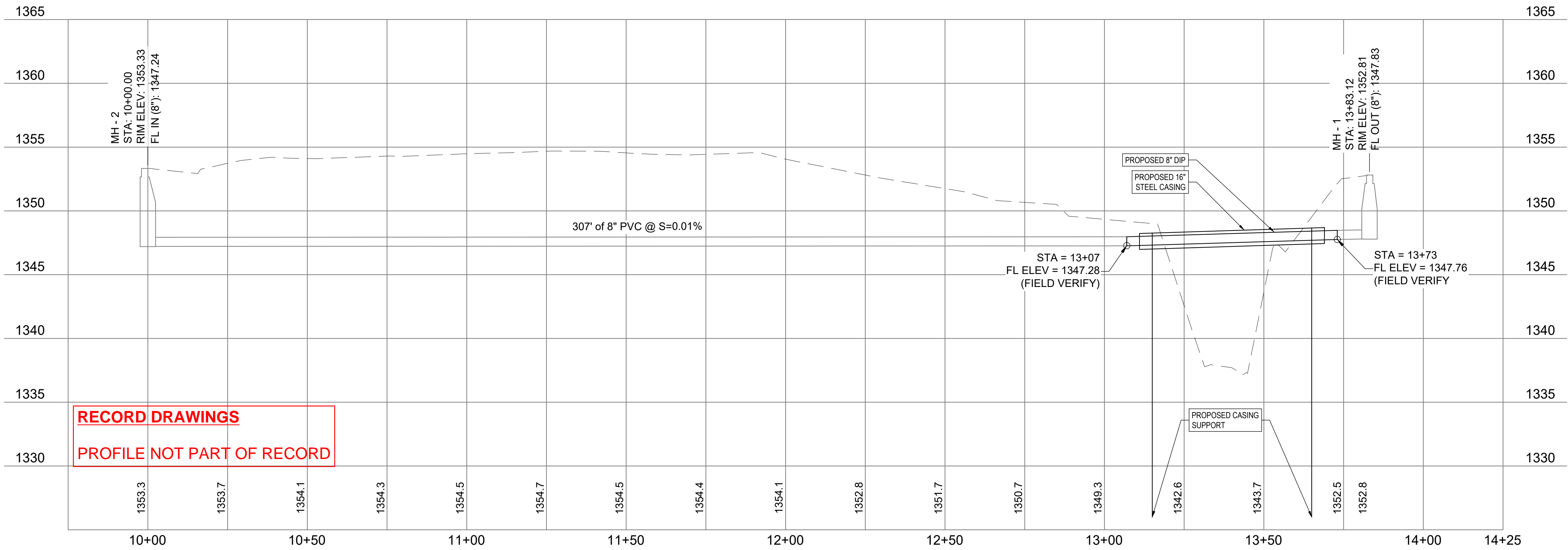
ISSUE		
MARK	DATE	DESCRIPTION
FD	10/28/2024	FINAL

- GENERAL NOTES:**
- RESEED ALL DISTURBED AREAS.
 - INSTALL EROSION CONTROL MATTING OVER STEEP SLOPES WITHIN DISTURBED CREEK CHANNEL AREAS.

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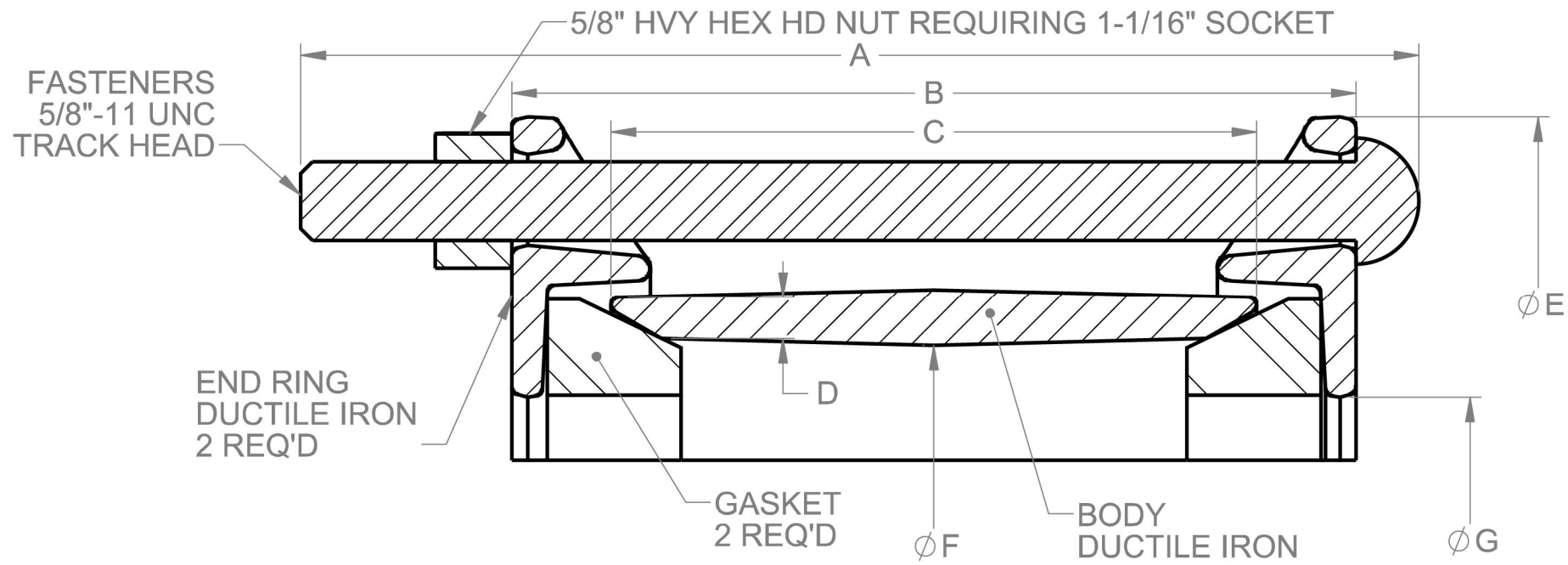
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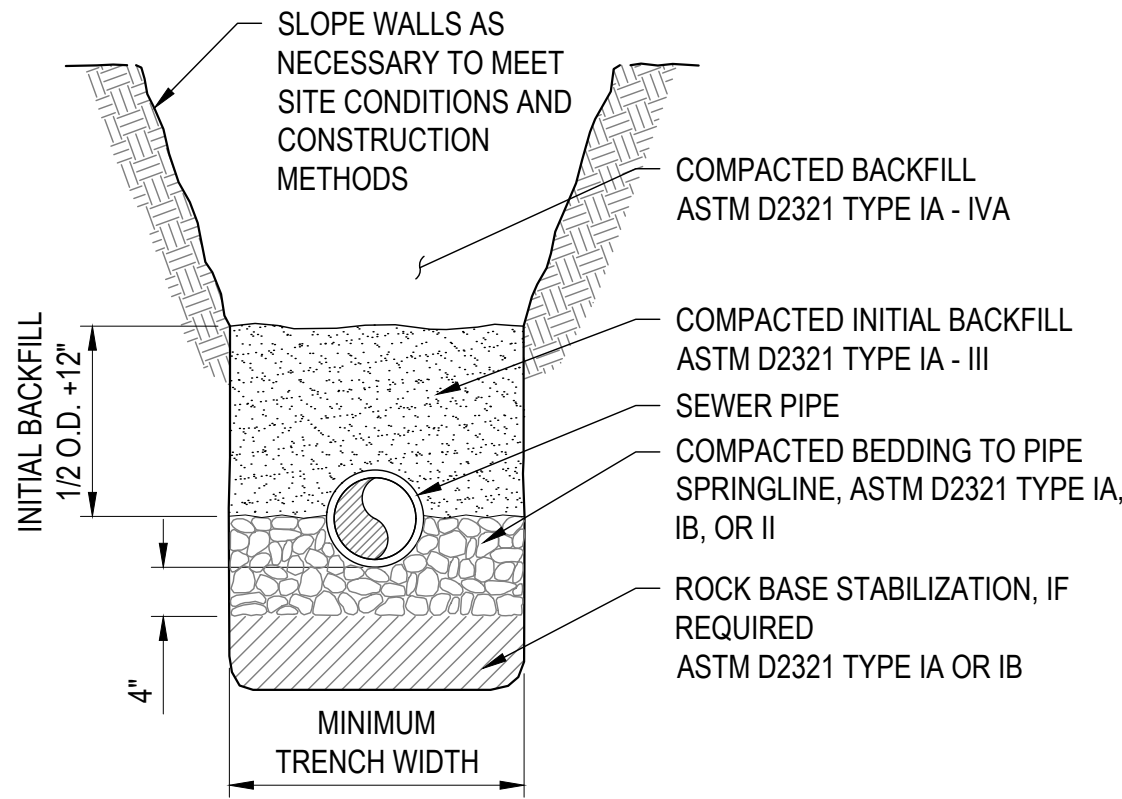
PLAN AND PROFILE

BODY SIZE							G			BOLTS		
	A	B	C	D	E	F	RED	BLACK	YELLOW	NO.	DIA.	LENGTH
2	8.50	7.10	5.00	0.34	6.30	3.04	3.05	N/A	N/A	2	5/8	8.00
3	11.00	7.30	5.00	0.38	7.39	4.04	4.05	N/A	N/A	4	5/8	10.50
4	8.50	7.00	5.00	0.34	8.63	5.46	4.90	5.35	5.50	4	5/8	8.00
6	8.50	7.00	5.00	0.45	11.19	7.63	7.00	7.37	7.63	5	5/8	8.00
8	8.50	7.00	5.00	0.45	13.44	9.85	9.16	9.53	9.80	6	5/8	8.00
10A	11.00	8.00	6.00	0.52	16.44	11.05	11.12	N/A	N/A	7	5/8	10.50
10B	11.00	8.00	6.00	0.52	16.44	12.20	N/A	11.44	12.21	7	5/8	10.50
12A	11.00	8.00	6.00	0.52	18.56	13.13	13.04	N/A	N/A	8	5/8	10.50
12B	11.00	8.00	6.00	0.52	18.56	14.58	N/A	13.69	14.50	8	5/8	10.50
14	12.00	9.00	7.00	0.55	21.25	16.96	16.53	15.87	17.06	9	5/8	11.50
16	12.00	9.00	7.00	0.55	23.25	19.06	18.61	17.97	19.05	10	5/8	11.50
18	12.00	9.00	7.00	0.75	25.00	20.35	19.18	19.72	20.40	12	5/8	11.50
20	12.00	9.00	7.00	0.75	26.75	22.43	21.37	22.00	22.31	12	5/8	11.50
22	12.00	9.00	7.00	0.75	28.88	24.42	23.50	24.19	24.50	13	5/8	11.50
24	15.50	12.00	10.00	0.8	31.50	26.49	25.45	26.13	26.56	14	5/8	15.00

NOTE:
1. FASTENERS: HSLA PER AWWA C111. STAINLESS STEEL TYPE 304 OR 316 AVAILABLE UPON REQUEST.
2. PRESSURE RATED UP TO 260 PSIG WORKING, 325 PSIG TEST. FOR HIGHER PRESSURES CONTACT ROMAC ENGINEERING DEPARTMENT.

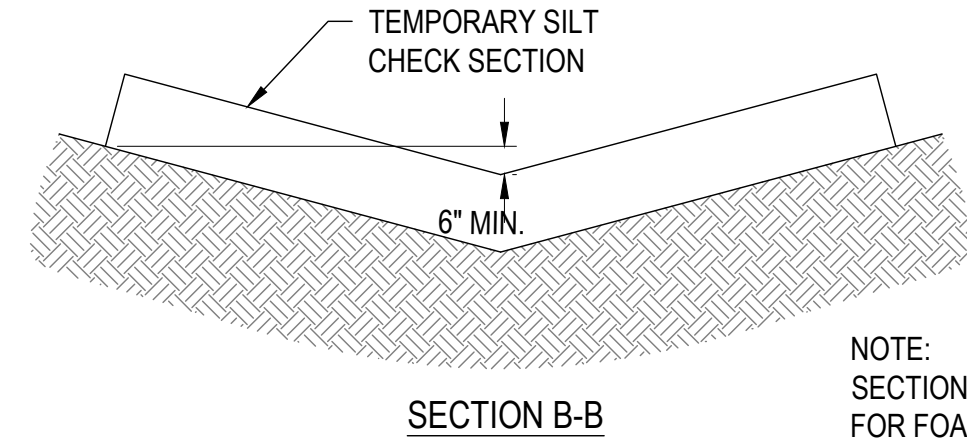
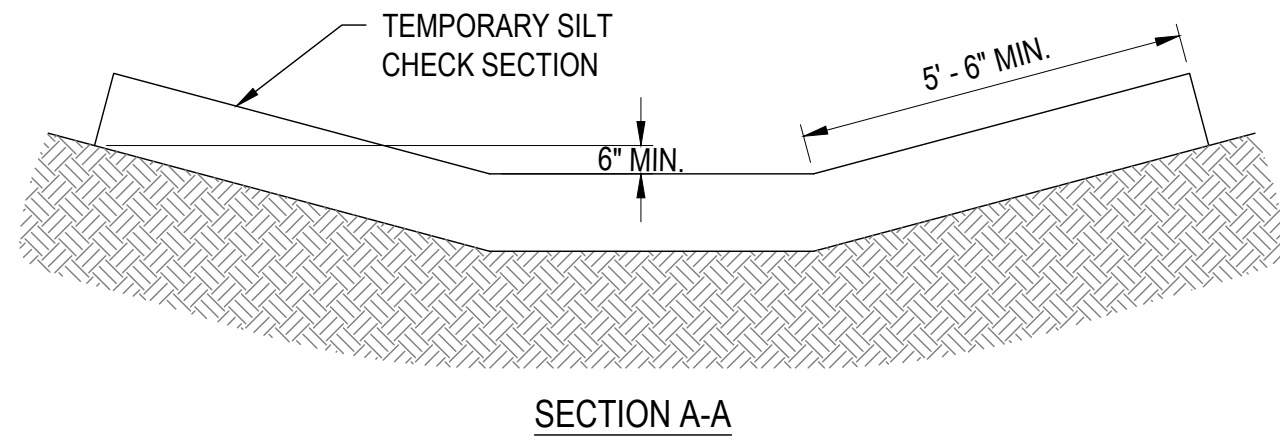


1 **ROMAC COUPLING**
SCALE: N.T.S.



PIPE SIZE	MIN. TRENCH WIDTH
4"	18"
6"	18"
8"	24"
10"	26"
12"	30"
15"	30"
18"	32"

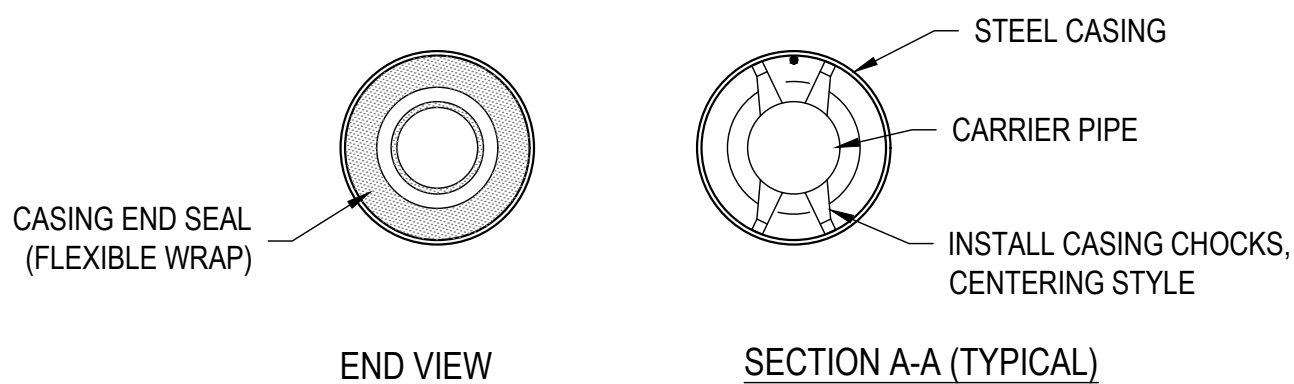
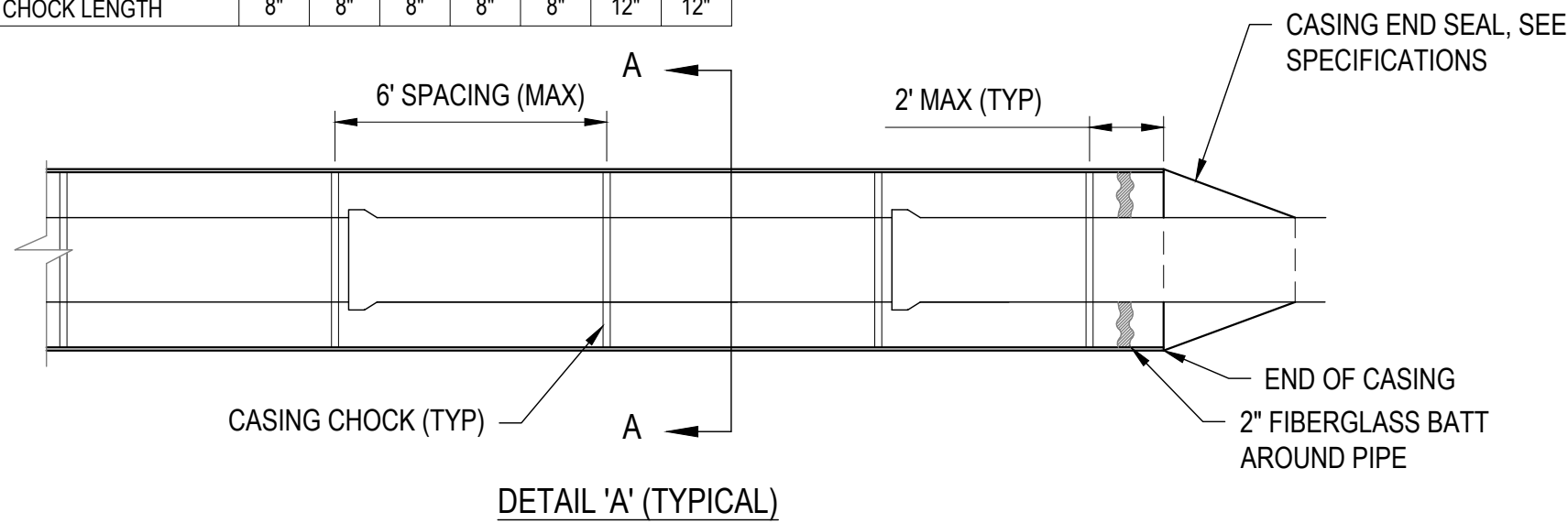
2 **SANITARY SEWER TRENCH**
SCALE: N.T.S.



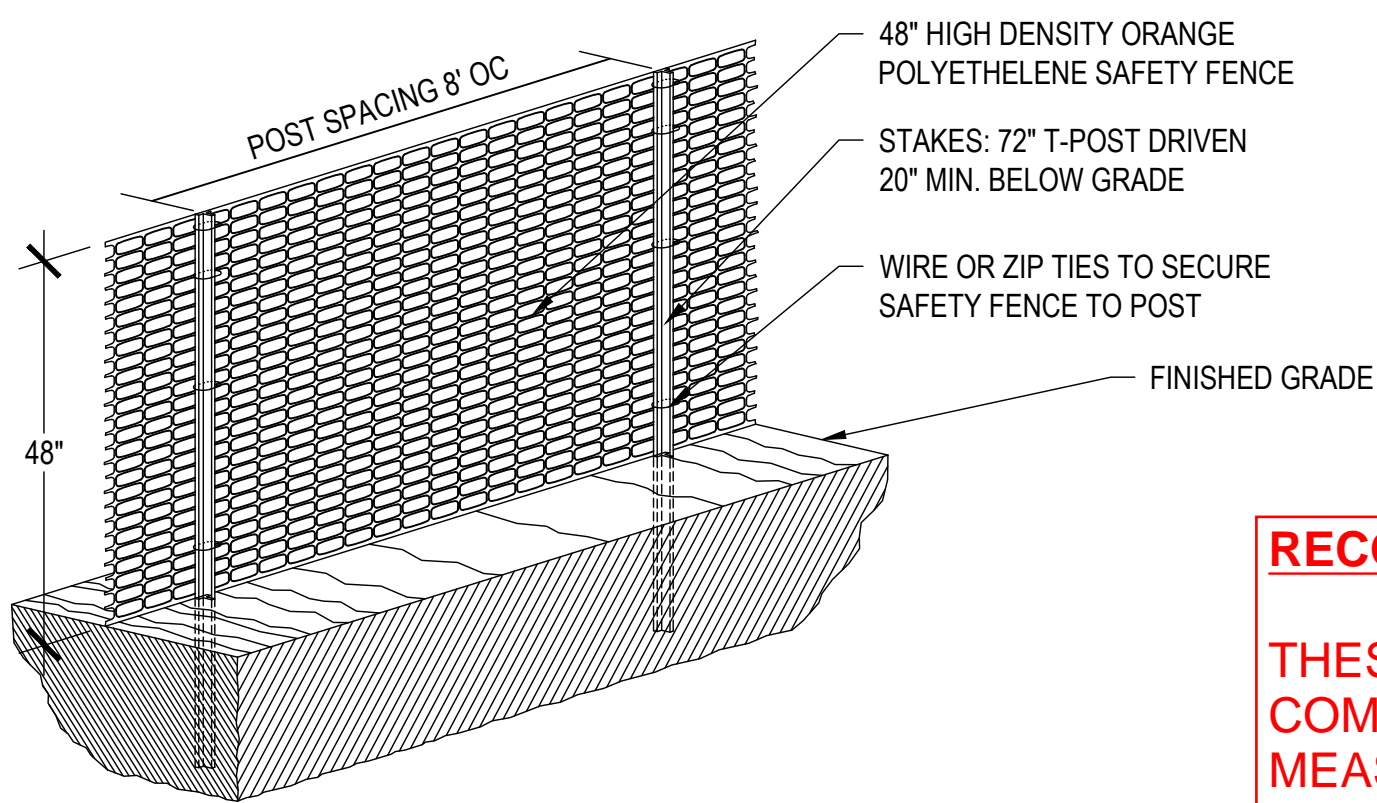
NOTE:
SECTION A-A & B-B ARE TYPICAL FOR FOAM TRIANGLE, WATTLE, & RIGID PLASTIC TRIANGLE TEMPORARY SILT CHECKS.

3 **SILT DIKE WATTLES**
SCALE: N.T.S.

CASING AND CHOCK DETAIL TABLE							
CARRIER PIPE DIA.	4"	6"	8"	10"	12"	16"	24"
MIN. CASING DIA.	10"	12"	14"	16"	20"	24"	36"
CASING CHOCK LENGTH	8"	8"	8"	8"	8"	8"	12"



4 **STEEL CASING**
SCALE: N.T.S.



NOTE:
1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
3. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED. PROTECTIVE FENCING MUST BE APPROVED.

5 **ORANGE SNOW FENCE**
SCALE: N.T.S.

RECORD DRAWINGS

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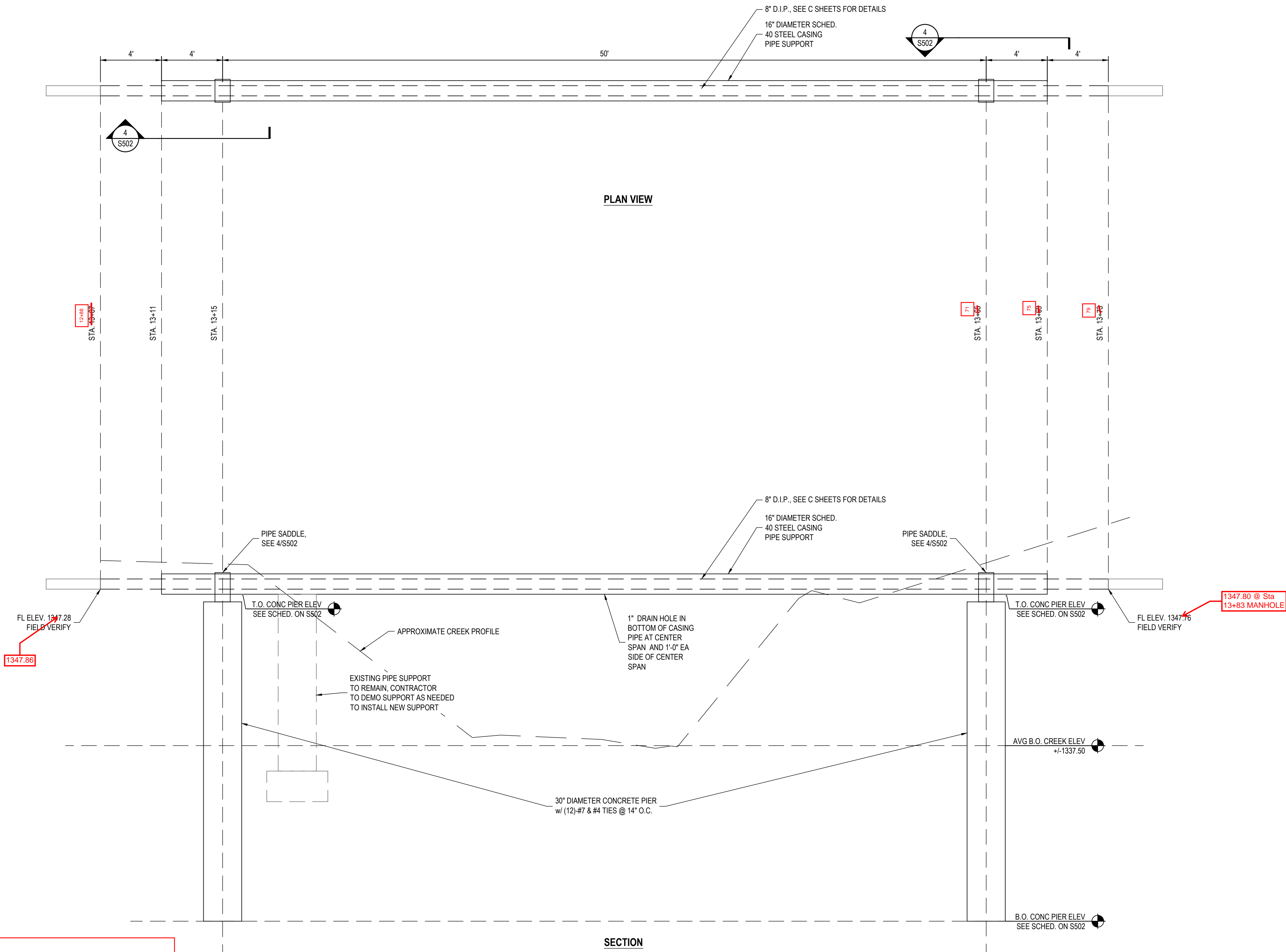
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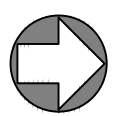
DETAILS



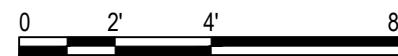
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1 PIPE SUPPORT
SCALE: 1/4"=1'-0"



JEO ARCHITECTURE INC

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Authorization Number: CA-3929

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ORIGINALLY SIGNED
ON 10/29/2024 BY
CODY A. LUREN A
LICENSED
PROFESSIONAL
ENGINEER IN THE
STATE OF NEBRASKA
E-18811

ISSUE

MARK	DATE	DESCRIPTION
FD	10/28/2024	FINAL

WALNUT CREEK SEWER REPAIR

CRETE, NEBRASKA

LAT: 40°38'03.62" N
LONG: 96°57'32.63" W

JEO Project No.: 241729.00
Sheet Size: 22" x 34"
Drawn by: ADP
QAQC: EEJ - 10/17/2024
Additional Project Info:



STRUCTURAL DETAILS

S501

DESIGN DATA – STRUCTURAL GENERAL NOTES

GOVERNING CODE/SPECIFICATIONS:
2018 International Building Code (IBC), and Nebraska Department of Transportation (NDOT) 2017 Standard Specifications.

DESIGN LOADING:
50 Year flood stream velocity: 9 FPS
Design Ice Thickness: 1.50"
Bearing Capacity: 1500 psf (Assumed)
Blows/Foot: N=4 (Assumed)

MATERIALS:

STRUCTURAL STEEL – ALL STEEL @ SUPPORTS, INCLUDING ENTIRE PIPE SADDLE SUPPORT TO BE H.D.G. (HOT-DIPPED GALVANIZED)

Rolled Shapes & Plates (at supports).....ASTM A-36 H.D.G.
Pipe.....ASTM A53 GRADE B
Welding Electrodes.....AWS D1.1, type required for materials being welded
BOLTS.....ASTM A325 TYPE 3
Anchor Bolts.....ASTM F1554 Gr. 36 H.D.G.
ALL WELDS TO BE SPRAY GALVANIZED WITH ZINC RICH PRIMER

CONCRETE
MIX DESIGN.....NDOT 47B-3000
REINFORCING.....ASTM-A615 GRADE 60 DEFORMED BARS

- TYPICAL NOTES:**
- Construction shall be per the current version of the NDOT standard specifications for highway construction.
 - The contractor shall verify specifications, dimensions, and existing site conditions, including utilities, prior to starting work. any deviations or inconsistencies found shall be brought to the immediate attention of the engineer.
 - The structure and elements shown on the plans are designed for stability under the final configuration only. The contractor is solely responsible for structural stability during construction.
 - All de-watering requirements for construction are the responsibility of the contractor.
 - No geotechnical investigation was done prior to design. Minimum soil standards were used for design. Geotechnical engineer is to be retained by **OWNER** to provide continuous testing and observation during all earthwork and pier construction. Geotech engineer to ensure minimum acceptable design criteria is met.

- STRUCTURAL STEEL NOTES:**
- Structural steel shall be fabricated and erected in conformance with "AISC Specification for Design, Fabrication, and Erection of Structural Steel For Buildings".
 - Nuts, bolts, and washers used in the assembly shall be hot-dipped galvanized.
 - Comply with American Welding Society standards. ALL welders shall have valid certificates and have current experience in the types of welds called for. All welds to meet AWS D1.1 standards.
 - Submit shop drawings for all structural steel to the **ENGINEER** for approval.

- CONCRETE PIER NOTES:**
- All piers shall be driven per Section 702, 704 and 707 of NDOT Standard Specifications.
 - Pier installation shall be observed and recorded by the engineer.
 - Allow concrete to cure to 75% design strength (2250 psi), before applying any load.
 - Concrete reinforcement clear cover is to be 2" clear at top of pier and 3" clear everywhere unless noted otherwise (U.N.O.).
 - No permanent casing or stay in place forming is allowed.
 - Submit concrete mix design to engineer for review.

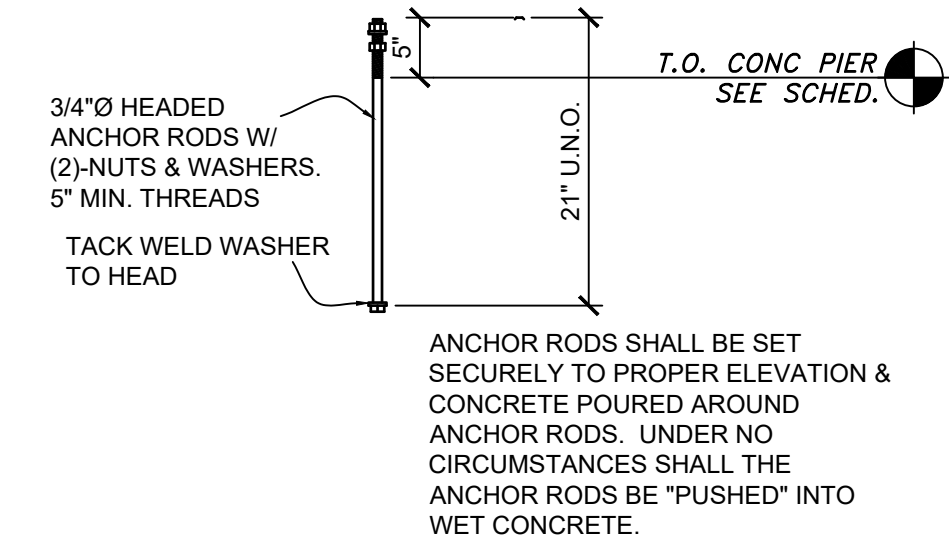
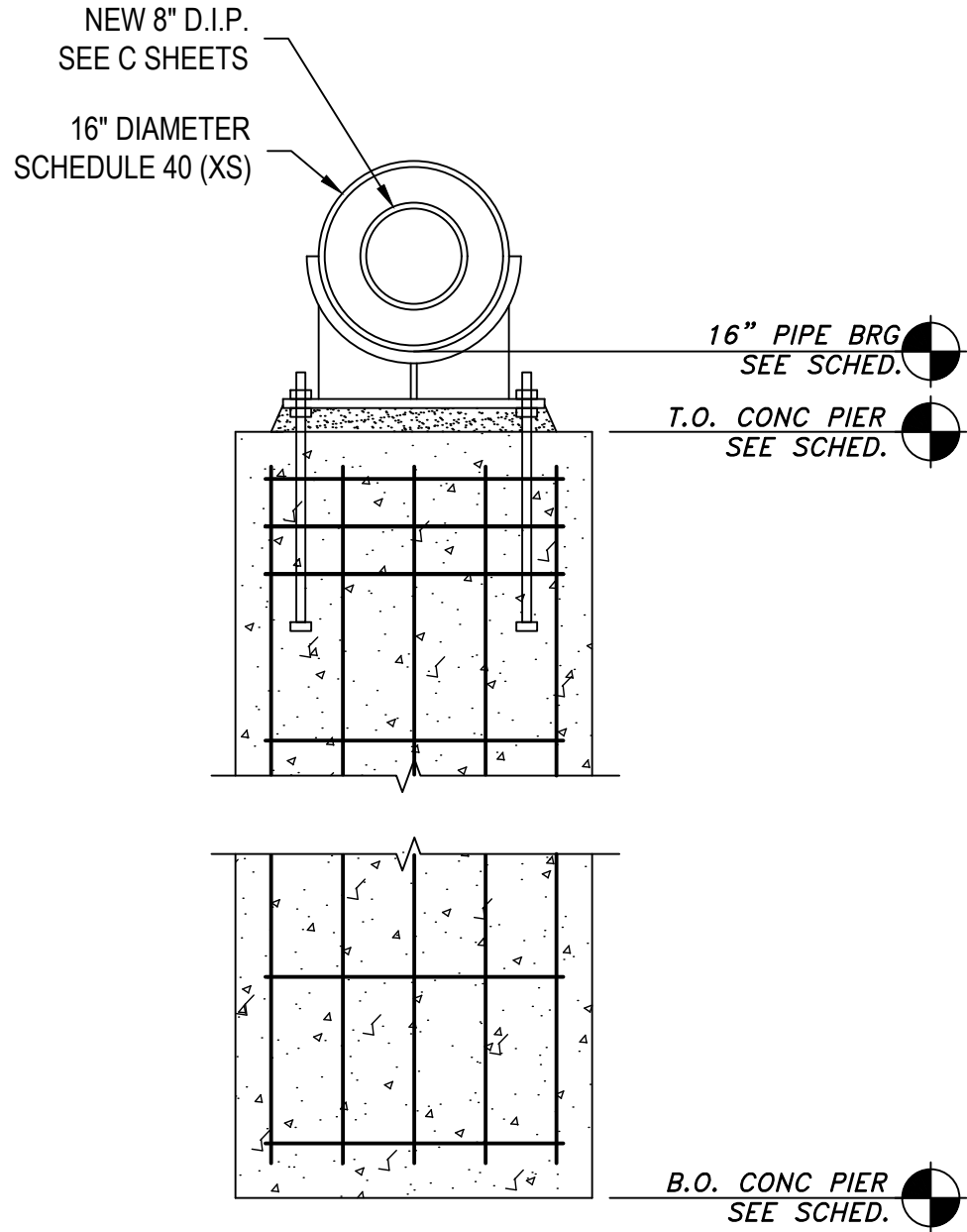
1 GENERAL NOTES
SCALE: NO SCALE

RECORD DRAWINGS

THESE RECORD DRAWINGS REPRESENT A
COMPILATION OF INFORMATION AND FIELD
MEASUREMENTS PROVIDED BY OTHERS. ALL
DIMENSIONS AND DTAILS HAVE NOT BEEN
VERIFIED BY JEO CONSULTING GROUP, INC.

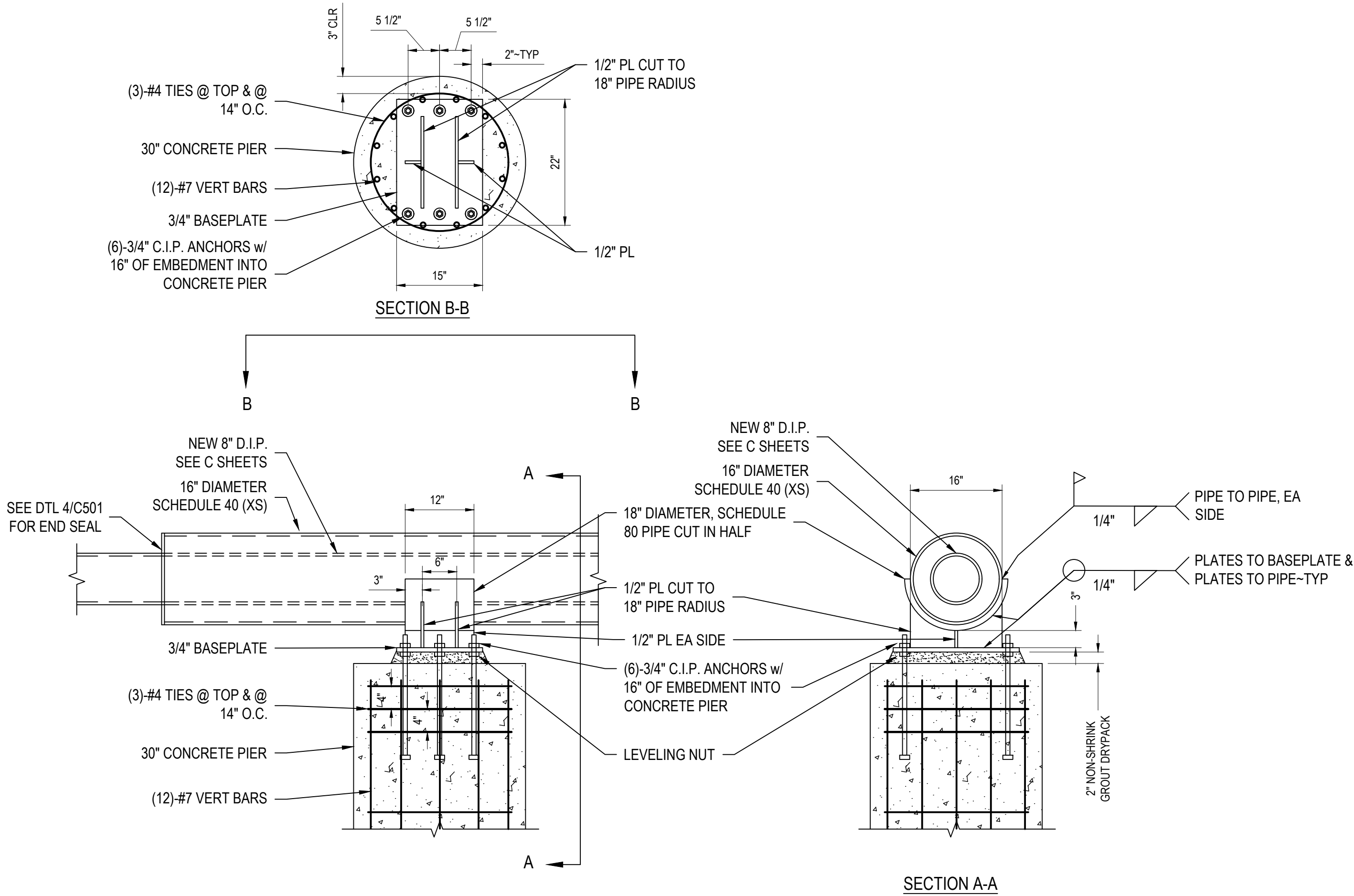
CONSTRUCTION COMPLETED 04/2025

PIER ELEVATIONS DATA			
LOCATION	16" PIPE BEARING ELEVATION	T.O. CONC PIER ELEVATION	B.O. CONC PIER ELEVATION
SOUTH PIER STA. 13+15	1347.02	1346.47	1326.00 1325.00
NORTH PIER STA. 13+05 13+11	1347.30 1347.43	1346.83 1346.87	1326.00 1325.00
PIER DATA NOTES: <ul style="list-style-type: none">T.O. = Top ofB.O. = Bottom ofSee structural general notes, plan and details for additional informationContractor to verify all existing elevations prior to construction			



3 TYPICAL ANCHOR DETAIL
SCALE: NO SCALE

2 PIER ELEVATION TABLE & DETAIL
SCALE: NO SCALE



4 PIER CONNECTION DETAIL
SCALE: NO SCALE



JEO ARCHITECTURE INC

1937 N CHESTNUT ST
WAHOO, NE 68066
800.723.8567 | jeo.com

Organization Certificate of
Authorization Number: CA-3929

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