

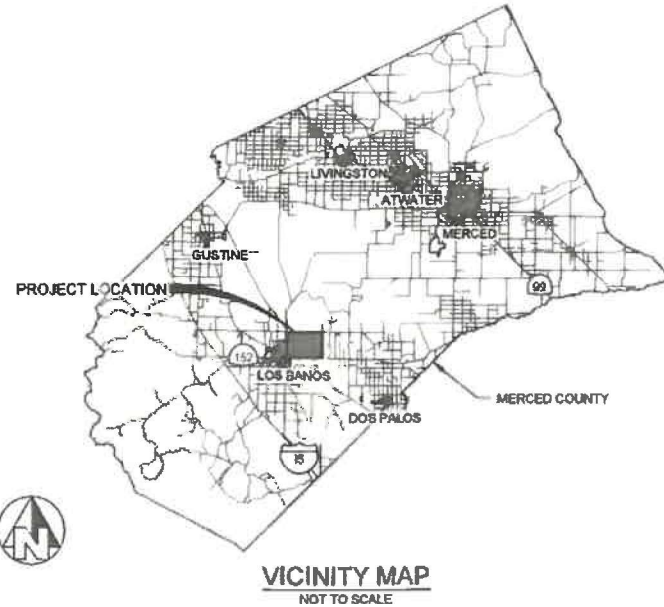


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Call before you dig.

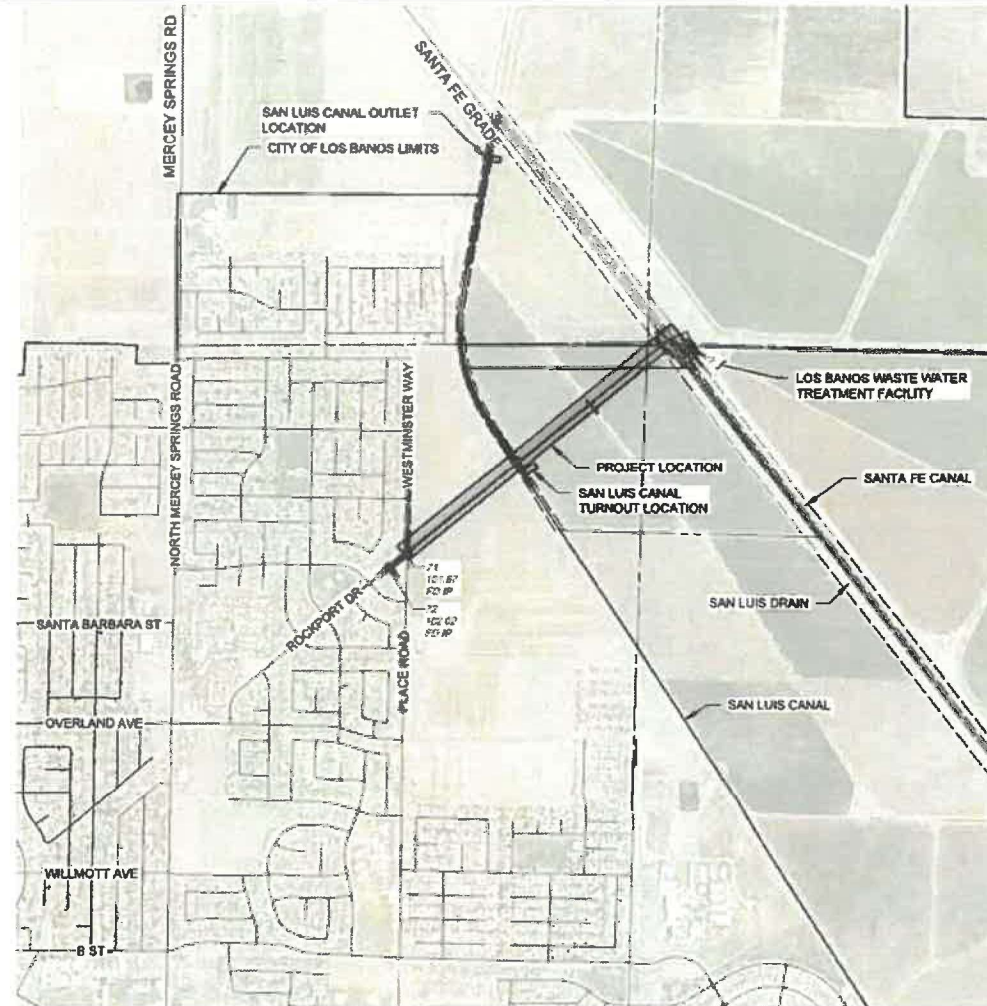


CITY OF LOS BANOS IN MERCED COUNTY

FINAL KILOMETER SEWER TRUNK LINE REPLACEMENT PROJECT



VICINITY MAP
NOT TO SCALE



SITE MAP
NOT TO SCALE

SPECIAL NOTE
WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

SITE SAFETY AND PROTECTION NOTES
THE DUTY OF THE ENGINEER, OWNER OR ITS AGENTS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE AND THE UNDERTAKING OF INSPECTIONS OR THE GIVING OF INSTRUCTIONS AS AUTHORIZED HEREIN IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF THE ACTUAL CONSTRUCTION NOR MAKE THE ENGINEER, OWNER OR ITS AGENTS RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

THE CONTRACTOR SHALL HAVE AT THE WORK SITE, COPIES OR SUITABLE EXTRACTS OF CONSTRUCTION SAFETY ORDERS, ISSUED BY CAL/OSHA. CONTRACTOR SHALL COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, PROMULGATED BY THE SECRETARY OF LABOR UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, AS SET FORTH IN TITLE 28 C.F.R.

TO PROTECT THE LIVES AND HEALTH OF CONTRACTOR'S EMPLOYEES UNDER THE CONTRACT, THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., AND SHALL MAINTAIN AN ACCURATE RECORD OF ALL CASES OF DEATH, OCCUPATIONAL DISEASE, AND INJURY REQUIRING MEDICAL ATTENTION OR CAUSING LOSS OF TIME FROM WORK, ARISING OUT OF AND IN THE COURSE OF EMPLOYMENT OR WORK UNDER THE CONTRACT.

THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF CONTRACTOR'S FACILITIES, APPLIANCES, AND METHODS AND FOR ANY DAMAGE, WHICH MAY RESULT FROM THEIR FAILURE OR THEIR IMPROPER CONSTRUCTION, MAINTENANCE OR OPERATION.

THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, PROVOST & PRITCHARD CONSULTING GROUP, AND THEIR RESPECTIVE AGENTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER, ENGINEER, OR THEIR RESPECTIVE AGENTS.

THE OWNER AND ITS AGENTS' SITE RESPONSIBILITIES ARE LIMITED SOLELY TO THE ACTIVITIES OF THEIR EMPLOYEES ON SITE. THESE RESPONSIBILITIES SHALL NOT BE INFERRED BY ANY PARTY TO MEAN THAT THE OWNER OR ITS AGENTS HAVE RESPONSIBILITY FOR SITE SAFETY, SAFETY IN, ON, OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE. THE CONTRACTOR'S METHODS OF WORK PERFORMANCE, SUPERINTENDENCE AND THE CONTRACTOR'S EMPLOYEES, AND SEQUENCING OF CONSTRUCTION ARE ALSO THE SOLE AND EXCLUSIVE RESPONSIBILITIES OF THE CONTRACTOR ALONE.

TOPOGRAPHY NOTE
TOPOGRAPHY SHOWN WAS COLLECTED BY PROVOST & PRITCHARD CONSULTING GROUP DURING A FIELD SURVEY CONDUCTED IN JUNE OF 2023, OCTOBER OF 2023 AND APRIL OF 2024.

BOUNDARY NOTE
THE BOUNDARY/EASEMENT INFORMATION SHOWN ON THESE PLANS IS BASED UPON RECORD INFORMATION TIED TO PHYSICAL MONUMENTS, AND WAS PREPARED UNDER THE DIRECTION OF BRYAN W. BOWERS, PLS LICENSE #8489.

CONTROL TABLE CCS ZONE 3(NAD83) STATE PLANE COORDINATES (USFT)				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
71	1851390.32	6466515.38	101.57	FD IP
72	1851230.14	6466319.31	102.02	FD IP



DATE SIGNED: 03/05/2025

APPROVALS
CHARLES BERGSON, RCE 34347
PUBLIC WORK DIRECTOR AND CITY ENGINEER
CITY OF LOS BANOS
RIC ORTEGA,
GENERAL MANAGER
GRASSLAND WATER DISTRICT
DATE: 03/04/25

GENERAL NOTES

- CITY OF LOS BANOS (CITY) 209-827-7000 SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK ON OR NEAR EXISTING CITY FACILITIES. GRASSLAND WATER DISTRICT (DISTRICT) 209-826-5188 SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK ON OR NEAR EXISTING DISTRICT FACILITIES.
- USED MATERIAL, REJECTS, MISFITS OR SECONDS, ETC, ARE NOT ACCEPTABLE FOR USE ON CITY OF LOS BANOS FACILITIES.
- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS AND SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE OWNER'S REPRESENTATIVE AWARE OF ANY DISCREPANCIES.
- ALL CAST-IN-PLACE CONCRETE STRUCTURES SHALL BE FORMED INSIDE AND OUT AND CONCRETE VIBRATED SUFFICIENTLY TO PROVIDE FOR SMOOTH SURFACED WALLS/FLOORS WITHOUT VOIDS AND HONEYCOMBS.
- CITY SHALL INSPECT ALL WORK PHASES ON CONCRETE FACILITIES FOR CONFORMANCE TO CITY SPECIFICATIONS. REINFORCING SHALL NOT BE ENCASED IN CONCRETE WITHOUT PRIOR CITY INSPECTIONS. OTHERWISE, CONCRETE SHALL NOT BE COVERED WITH EARTH PRIOR TO CITY INSPECTION.
- CONCRETE DESIGN MIX SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. ALL CONCRETE SHALL BE TYPE 8 CEMENT AND HAVE A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI UNLESS OTHERWISE SPECIFIED.
- ALL STEEL PIPE AND FITTINGS SHALL BE FURNISHED WITH A SHOP APPLIED HIGH SOLIDS EPOXY COATING ON THE INTERIOR AND EXTERIOR, UNLESS OTHERWISE INDICATED. ALL OTHER EXPOSED STEEL SHALL BE PAINTED WITH A PRE-TREATMENT PRIMER, AN UNDERCOAT AND A FINAL COAT OF PAINT IN ACCORDANCE WITH CITY SPECIFICATIONS.
- ALL NUTS, BOLTS, AND WASHERS USED TO SECURE UNDERGROUND FITTINGS SHALL BE STAINLESS STEEL. AFTER INSTALLATION, ALL STEEL HARDWARE SHALL BE COATED WITH A RUST PREVENTATIVE, WRAPPED WITH 4 MIL POLYETHYLENE SHEETING, AND SECURE WITH PVC TAPE.
- THRUST RESTRAINTS TO BE PROVIDED AT ALL PIPELINE BENDS, WHETHER OR NOT SHOWN ON THE PLANS.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS OF THE STATE OF CALIFORNIA AND CAL/OSHA STANDARDS.
- TRENCH BACKFILL AND RESERVOIR EMBANKMENTS SHALL BE COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, CITY SPECIFICATIONS, AND THE GEOTECHNICAL REPORT CONTAINED IN THE SPECIFICATIONS.
- CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ALL PIPELINE CRACKS, WHICH DEVELOP DURING CONSTRUCTION OF IMPROVEMENTS AFFECTING EXISTING FACILITIES.
- CONCRETE VAULTS AND BOXES MAY BE PURCHASED FROM A PRECAST MANUFACTURER OR CONTRACTOR MAY CONSTRUCT THE STRUCTURES IF STRUCTURAL CALCULATIONS AND DESIGN IS APPROVED BY THE OWNER'S REPRESENTATIVE AND THE ENGINEER.
- ALL EXCESS MATERIAL AND/OR DEBRIS SHALL BE REMOVED UPON COMPLETION OF INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DUST CONTROL AT ALL TIMES.
- ALL WORK WITHIN THE SAN LUIS CANAL SHALL BEGIN BY JUNE 1ST AND BE COMPLETED AND OPERATIONAL BY JULY 15TH.
- CONTRACTOR SHALL FURNISH, INSTALL AND OPERATE SEWER BYPASS WITH A DRY PEAK FLOW OF 5.0 MGD AND WET PEAK FLOW OF 12.0 MGD.
- CONTRACTOR SHALL BE RESPONSIBLE OF MAINTAINING THE FOUNDATIONS, EXCAVATIONS, AND OTHER PART OF WORK FREE FROM WATER AS SPECIFIED IN SECTION 31 23 19.

SHEET INDEX		
NUMBER	SHEET	DESCRIPTION
GENERAL		
1	G1	COVER
2	G2	LEGEND AND ABBREVIATIONS
3	G3	OVERALL SITE PLAN
4	G4	TRAFFIC CONTROL AND DETOUR PLAN
5	G5	CONSTRUCTION SEQUENCING
6	G6	BORING LOGS
PLAN & PROFILES		
7	PP1	STA 10+00 TO 33+00
8	PP2	STA 33+00 TO 51+00
CIVIL		
9	C1	EXISTING UTILITY CONNECTION
10	C2	SAN LUIS CANAL CROSSING
11	C3	SAN LUIS DRAIN CROSSING
12	C4	SANTA FE CANAL CROSSING
13	C5	WWTP UTILITY CONNECTION
14	C6	SAN LUIS CANAL SIPHON PLAN AND PROFILE
15	C7	SAN LUIS CANAL SIPHON GRADING
16	C8	SAN LUIS CANAL SECTIONS
17	C9	SAN LUIS CANAL TURNOUT
18	C10	SAN LUIS CANAL OUTLET
CROSS SECTIONS		
19	CS1	CROSS SECTIONS
STRUCTURAL		
20	S1	STRUCTURAL NOTES AND DETAILS
21	S2	STRUCTURAL DETAILS
22	S3	SAN LUIS CANAL SIPHON STRUCTURE PLAN
23	S4	SAN LUIS CANAL SIPHON STRUCTURE SECTIONS
24	S5	STRUCTURES PLAN & SECTIONS
25	S6	PUMP SUMP PLAN & SECTIONS
DETAILS		
26	D1	CITY OF LOS BANOS DETAILS
27	D2	DETAILS
28	D3	DETAILS
29	D4	DETAILS
30	D5	DETAILS
31	D6	DETAILS
32	D7	DETAILS
33	D8	FENCE DETAILS

100% DESIGN PLANS
FOR BIDDING PURPOSES ONLY
03/05/2025



FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
GENERAL
COVER

PROVOST & PRITCHARD
240 W. PALMHEIM BLVD., SUITE 8
LOS BANOS, CALIFORNIA 93803
TEL: (209) 826-1878
WWW.PROVOSTANDPRITCHARD.COM

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO.
RCE 88513

DRAFTED BY: PD, CAJ CHECKED BY: KK, GMH

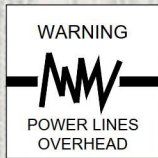
DATE: 03/05/2025
JOB NO. 350123011

PROJECT NO. CLB 2023-019

PHASE:
0 1"

ORIGINAL SCALE SHOWN IS ONE
WHEN ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS

SHEET
G1
1 OF 33



NOTES

1. BASINS ARE SHOWN FOR REFERENCE. NO EARTHWORK FOR BASINS SHALL TAKE PLACE IN THIS CONTRACT.

PIPE ALIGNMENT TABLE				
NUMBER	LENGTH	DIRECTION	START POINT	END POINT
L101	12.56	S47° 29' 23.32"E	N:1851393.22 E:6466500.00	N:1851384.73 E:6466509.26
L102	400.00	N50° 42' 01.08"E	N:1851384.73 E:6466509.26	N:1851638.09 E:6466818.80
L103	400.00	N50° 44' 20.73"E	N:1851638.09 E:6466818.80	N:1851891.23 E:6467128.51
L104	400.00	N50° 44' 20.73"E	N:1851891.23 E:6467128.51	N:1852144.37 E:6467438.22
L105	290.00	N50° 44' 53.78"E	N:1852144.37 E:6467438.22	N:1852327.86 E:6467662.78
L106	150.00	N50° 45' 21.57"E	N:1852327.86 E:6467662.78	N:1852422.75 E:6467778.95
L107	400.00	N50° 43' 56.71"E	N:1852422.75 E:6467778.95	N:1852675.93 E:6468088.63
L108	400.00	N50° 44' 05.42"E	N:1852675.93 E:6468088.63	N:1852929.09 E:6468398.32
L109	400.00	N50° 44' 57.12"E	N:1852929.09 E:6468398.32	N:1853182.18 E:6468708.08
L110	400.00	N50° 44' 57.12"E	N:1853182.18 E:6468708.08	N:1853435.27 E:6469017.83
L111	350.00	N48° 30' 35.80"E	N:1853435.27 E:6469017.83	N:1853687.14 E:6469280.00
L112	150.00	N50° 44' 18.19"E	N:1853687.14 E:6469280.00	N:1853762.06 E:6469396.14
L113	213.49	S39° 15' 41.81"E	N:1853762.06 E:6469396.14	N:1853596.77 E:6469531.25
L114	126.77	N52° 01' 58.48"E	N:1853596.77 E:6469531.25	N:1853674.76 E:6469631.19
L115	46.88	S63° 23' 12.85"E	N:1853674.76 E:6469631.19	N:1853653.76 E:6469673.11
L116	22.38	S26° 36' 47.15"W	N:1853653.76 E:6469673.11	N:1853633.74 E:6469663.08

CITY OF LOS BANOS

WESTMINSTER WAY

CITY OF LOS BANOS
EASEMENT 48'±

ROCKPORT DR

SAN LUIS CANAL OUTLET

C10

GWD R/W
80'

GWD R/W
80'

USBR R/W
120'

SAN LUIS DRAIN CROSSING

C3

SANTA FE CANAL CROSSING

C4

WWTP UTILITY CONNECTION

C5

BORING LOG B-5

LOS BANOS WASTEWATER
TREATMENT FACILITY

GWD R/W
80'

USBR R/W
120'

SANTA FE CANAL

SAN LUIS DRAIN

APN 073-220-014
CITY OF LOS BANOS

SAN LUIS CANAL SIPHON
PLAN & PROFILE

C6

SAN LUIS CANAL CROSSING

C2

BORING LOG B-4

SAN LUIS CANAL TURNOUT

C9

SAN LUIS CANAL CROSSING

C2

SAN LUIS CANAL SIPHON
PLAN & PROFILE

C6

SAN LUIS CANAL CROSSING

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BORING LOG B-4

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SAN LUIS CANAL TURNOUT

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SAN LUIS CANAL SIPHON
PLAN & PROFILE

C6

SAN LUIS CANAL CROSSING

C2

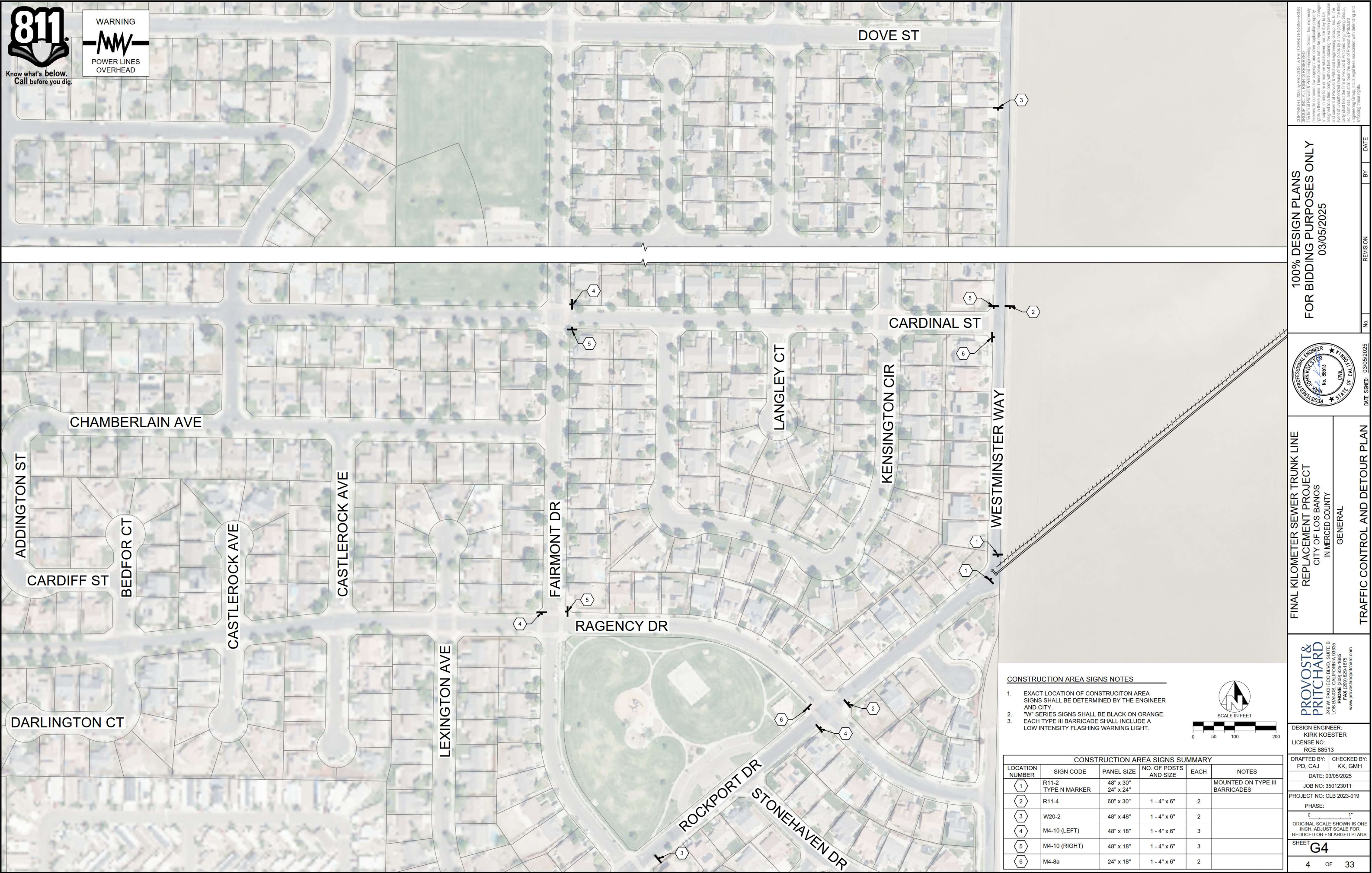
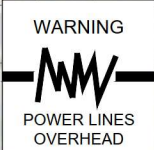
BORING LOG B-4

SAN LUIS CANAL TURNOUT

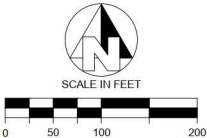
C9

SAN LUIS CANAL SIPHON
PLAN & PROFILE

C6



- CONSTRUCTION AREA SIGNS NOTES**
- EXACT LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER AND CITY.
 - "W" SERIES SIGNS SHALL BE BLACK ON ORANGE.
 - EACH TYPE III BARRICADE SHALL INCLUDE A LOW INTENSITY FLASHING WARNING LIGHT.



CONSTRUCTION AREA SIGNS SUMMARY					
LOCATION NUMBER	SIGN CODE	PANEL SIZE	NO. OF POSTS AND SIZE	EACH	NOTES
1	R11-2 TYPE N MARKER	48" x 30" 24" x 24"			MOUNTED ON TYPE III BARRICADES
2	R11-4	60" x 30"	1 - 4" x 6"	2	
3	W20-2	48" x 48"	1 - 4" x 6"	2	
4	M4-10 (LEFT)	48" x 18"	1 - 4" x 6"	3	
5	M4-10 (RIGHT)	48" x 18"	1 - 4" x 6"	3	
6	M4-8a	24" x 18"	1 - 4" x 6"	2	

PROVOST & PRITCHARD
248 N. SACRAMENTO BLVD., SUITE B
LOS ANGELES, CALIFORNIA 90012
PHONE (209) 829-1885
FAX (209) 829-1675
www.provostandpritchard.com

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH
DATE: 03/05/2025
JOB NO: 350123011
PROJECT NO: CLB 2023-019

PHASE:
0" = 1"
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET
G4

FINAL KILOMETER SEWER TRUNK LINE REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
GENERAL

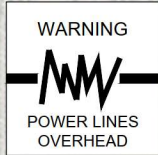
TRAFFIC CONTROL AND DETOUR PLAN

100% DESIGN PLANS
FOR BIDDING PURPOSES ONLY
03/05/2025

PROFESSIONAL ENGINEER
KIRK KOESTER
No. 88513
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
CIVIL

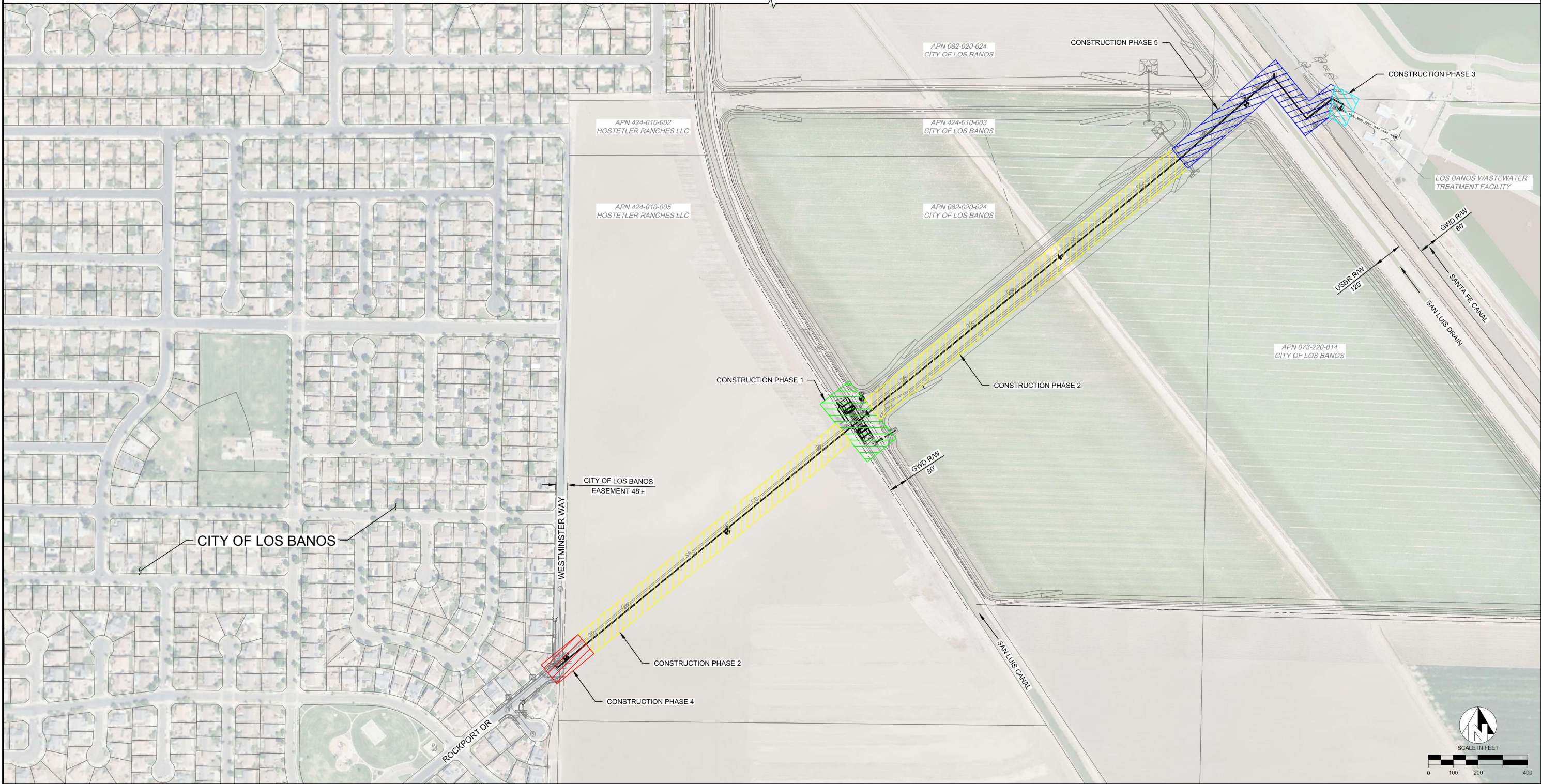
DATE SIGNED: 03/05/2025
BY: [Signature]
REVISION: [Blank]
DATE: [Blank]

3/4/2025 4:59 PM g:\os banos_city\350123011-sewer pipeline replacement at wwpb300 CAD340 sheet ssd\sewer pipeline replacement01_GeneralG4 Traffic Control and Detour Plan.dwg Antonio Bajarano



NOTES

1. BASINS ARE SHOWN FOR REFERENCE. NO EARTHWORK FOR BASINS SHALL TAKE PLACE IN THIS CONTRACT.



100% DESIGN PLANS
FOR BIDDING PURPOSES ONLY
03/05/2025

PROFESSIONAL ENGINEER
KIRK KOESTER
No. 88613
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/05/2025

FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
GENERAL

CONSTRUCTION SEQUENCING

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88613

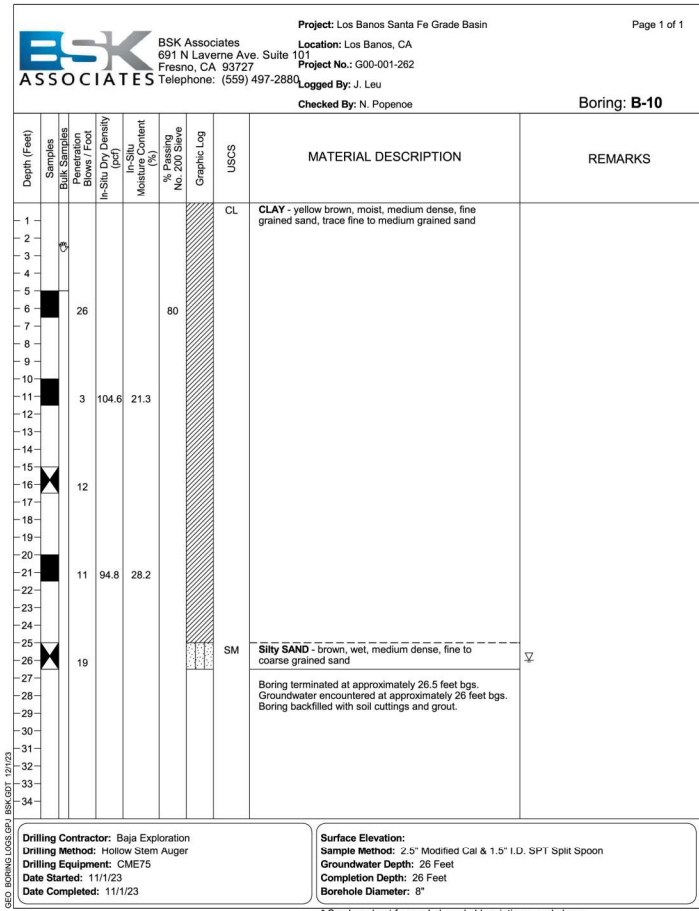
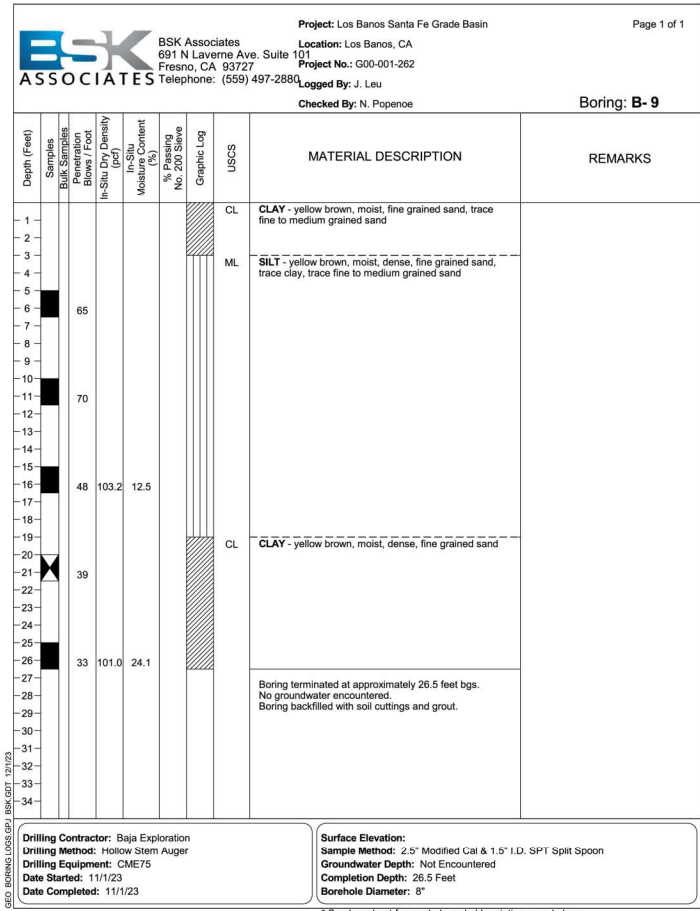
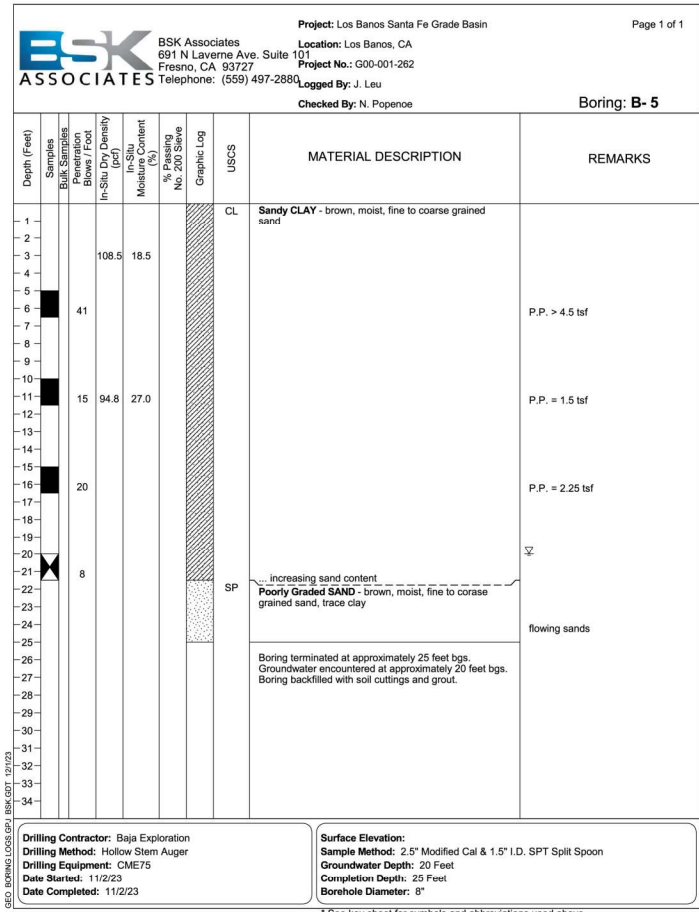
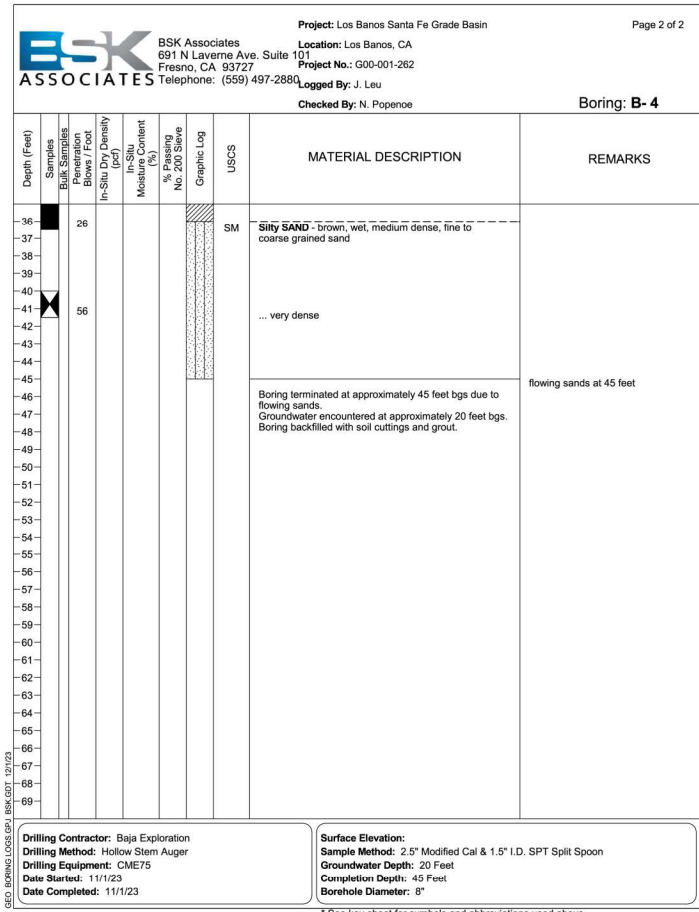
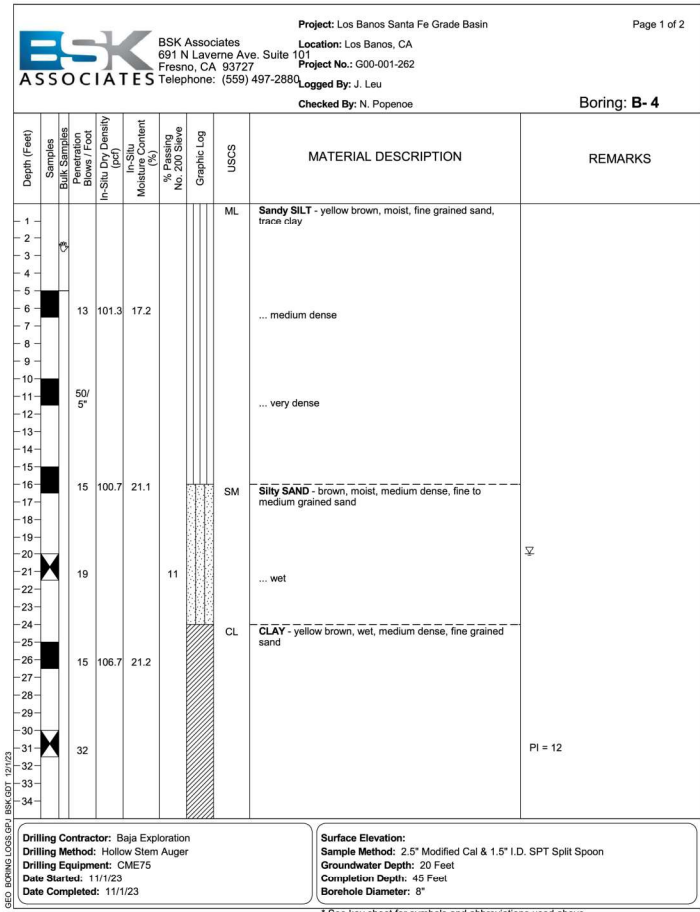
DRAFTED BY:
PD, CAJ
CHECKED BY:
KK, GMH
DATE: 03/05/2025
JOB NO: 350123011
PROJECT NO: CLB 2023-019
PHASE:
ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.
SHEET
G5

34/2025 4:59 PM g:\os banos_city_of_350123011-sewer pipeline replacement at wwp\300 CAD\340 sheet_ses\sewer pipeline replacement\01_General\35 CONSTRUCTION SEQUENCING.dwg - Antonio Bejrano

5

OF

33



100% DESIGN PLANS
FOR BIDDING PURPOSES ONLY
03/05/2025

REGISTERED PROFESSIONAL ENGINEER
KIRK KOESTER
No. 88613
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/05/2025

FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
GENERAL

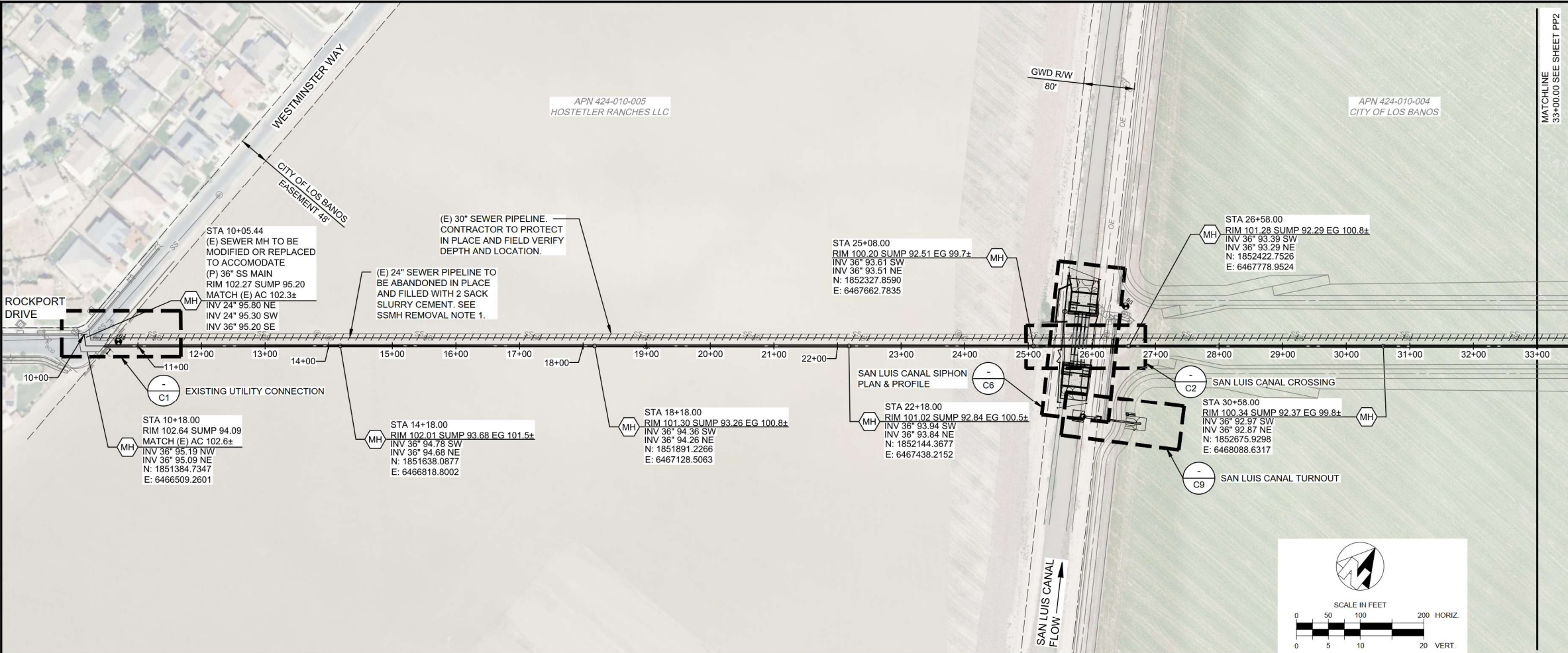
BORING LOGS

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88613

DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH
DATE: 03/05/2025
JOB NO: 350123011
PROJECT NO: CLB 2023-019
PHASE:
ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.
SHEET
G6
6 OF 33

PROVOST & PRITCHARD
208 N. MARKET STREET, SUITE 200
LOS BANOS, CALIFORNIA 93801
PHONE (209) 829-1655
FAX (209) 829-1675
www.provostandpritchard.com

3/4/2025 4:59 PM g:\lbs_banos_city-of-350123011-sewer-pipeline-replacement at www\300 CAD\340 sheet ss\sewer pipeline replacement\01_General\26 BORING LOGS.dwg -Antonio Belarano



CONSTRUCTION LEGEND

- (MH) CONSTRUCT 60" MANHOLE 1 D1
- (SJB) CONSTRUCT SEWER JUNCTION BOX 1 D3
- (P) SAWCUT AND REMOVE (E) ASPHALT PAVEMENT. CONSTRUCT PAVEMENT PLUG. 5 D1
- (SC) R&R AC ROADWAY PAVEMENT AND CURB & GUTTER 5 D1 6 D1
- (AC) ALIGNMENT CHANGE

CONSTRUCTION NOTES

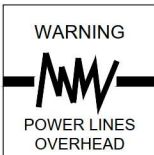
- PROTECT EXISTING UTILITIES.
- CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY DISCREPANCIES.
- ALL SAWCUT LINES SHALL BE STRAIGHT AND NEAT TO MATCH EXISTING CONDITIONS.
- RIM ELEVATION OF PROPOSED MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE EXISTING GRADE.
- PAVEMENT SHALL BE REPLACED ACCORDING TO MERCED COUNTY/CITY OF LOS BANOS STANDARDS AND PAVING DETAIL ON SHEET D1.
- CONTRACTOR SHALL FURNISH AND INSTALL SEWER BYPASS WITH A DRY PEAK FLOW OF 5.0 MGD AND WET PEAK FLOW OF 12.0 MGD.
- CONTRACTOR TO CONSTRUCT A CONCRETE APRON IN MANHOLES LOCATED IN UNPAVED AREAS PER DETAIL 5 ON SHEET D3

SSMH REMOVAL NOTES

- (P) 36" Ø SEWER PIPELINE SHALL BE OPERATIONAL BEFORE ANY ABANDONMENT IN PLACE OF (E) 24" Ø SEWER MAIN AND (E) SEWER MANHOLES.
- ABANDON (E) SEWER MANHOLES IN PLACE. REMOVE CONE SECTION OF MANHOLE TO 4' BELOW FINISH GRADE. FILL MANHOLE WITH 2 SACK SLURRY CEMENT AND COVER WITH LOOSELY COMPACTED NATIVE MATERIAL TO FINISH GRADE.
- PLUG ALL PIPE PENETRATIONS WITH WATERTIGHT PLUG (BRICK AND MORTAR).
- ABANDON IN PLACE (E) 24" Ø SS MAIN AND FILL WITH 2 SACK SLURRY CEMENT.

NOTES

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100% DESIGN PLANS
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03/05/2025



FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
PLAN & PROFILES

PROVOST & PRITCHARD
248 N. SACRAMENTO STREET, SUITE 200
LOS BANOS, CALIFORNIA 93801
PHONE (209) 829-1685
FAX (209) 829-1675
www.provostandpritchard.com

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH

DATE: 03/05/2025

JOB NO: 350123011

PROJECT NO: CLB 2023-019

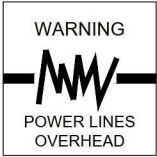
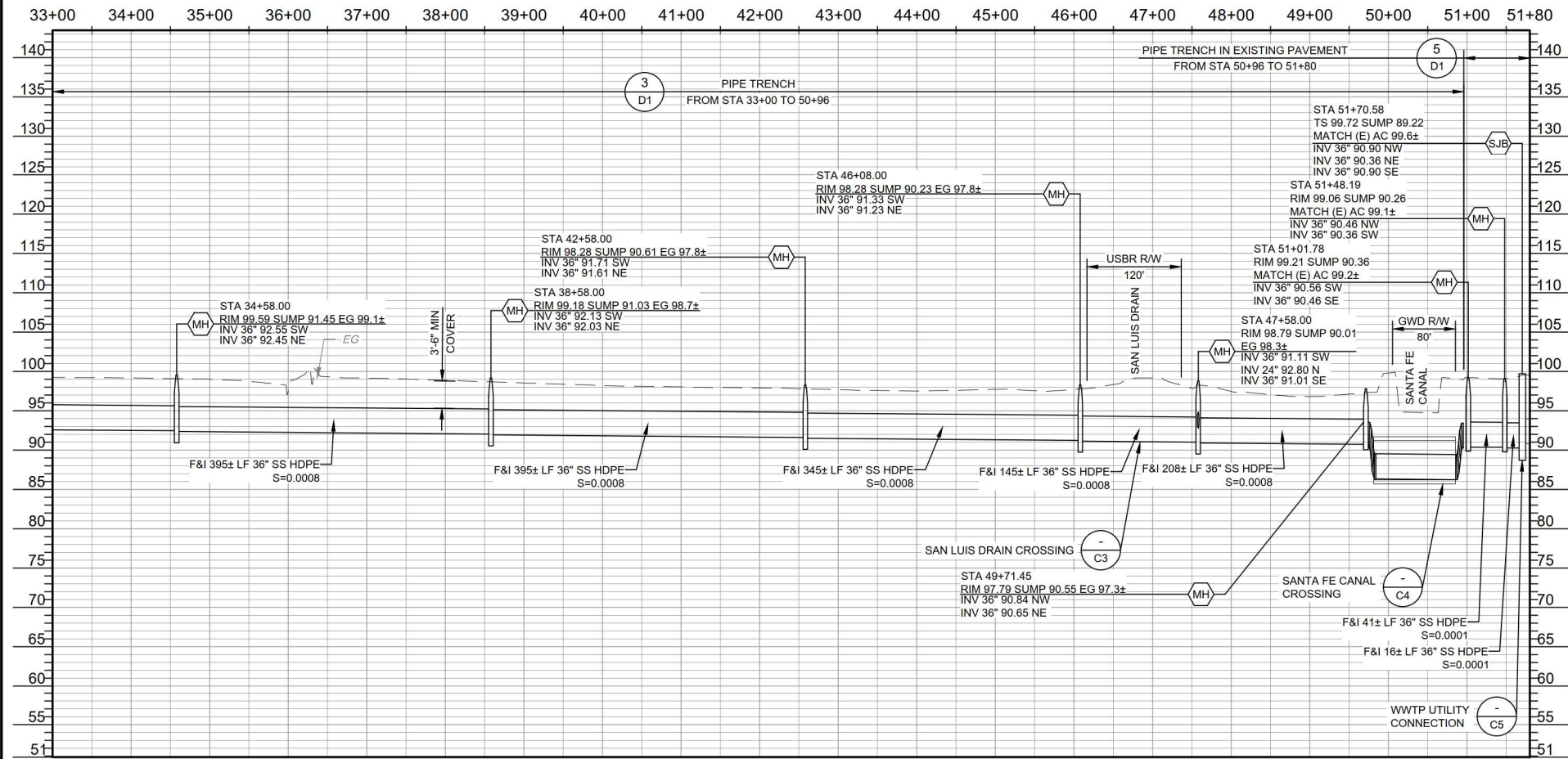
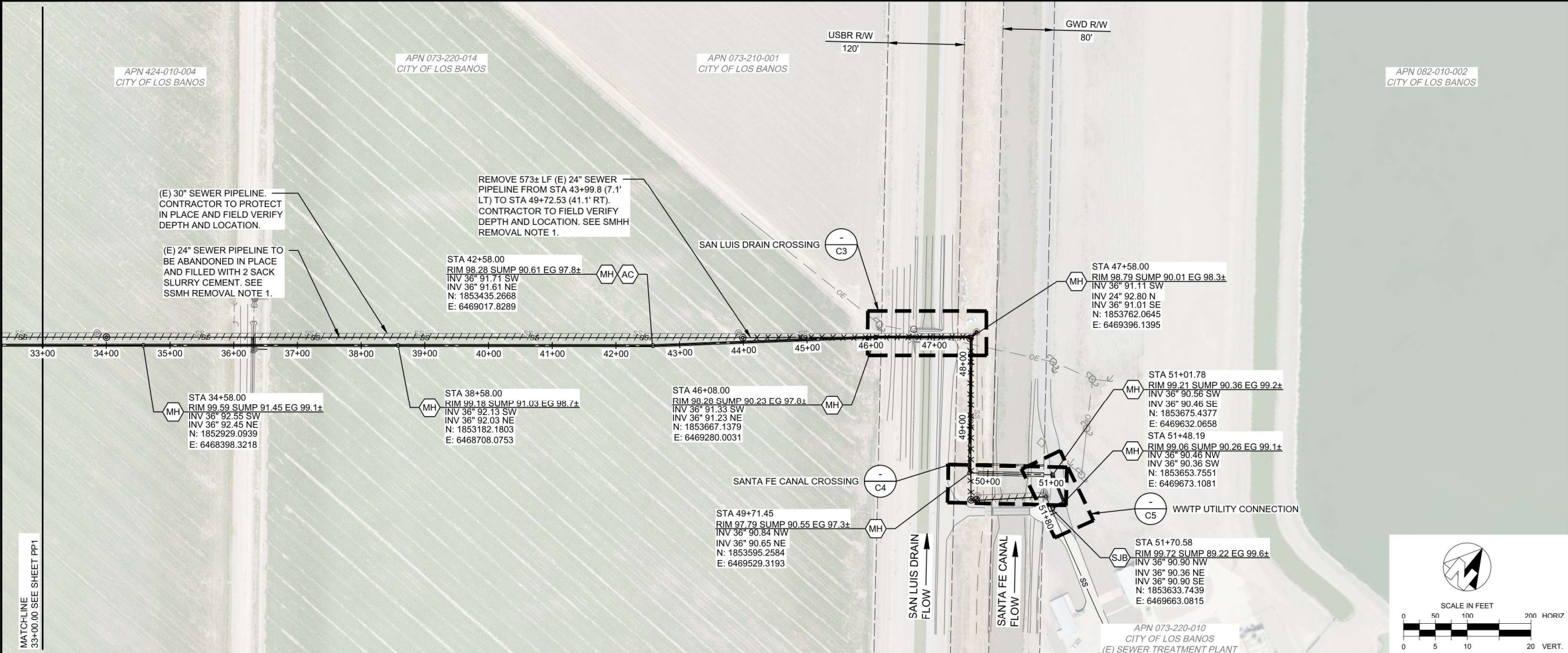
PHASE:

ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET
PP1

7 OF 33

3/4/2025 5:00 PM g:\os banos_city of 350123011-sewer pipeline replacement\03_Plan_& Profiles\PP1 STA 10+00 TO 33+00.dwg -Antonio Baganio



CONSTRUCTION LEGEND

- (MH) CONSTRUCT 60" MANHOLE
- (SJB) CONSTRUCT SEWER JUNCTION BOX
- (P) SAWCUT AND REMOVE (E) ASPHALT PAVEMENT. CONSTRUCT PAVEMENT PLUG.
- (SC) R&R AC ROADWAY PAVEMENT AND CURB & GUTTER
- (AC) ALIGNMENT CHANGE

CONSTRUCTION NOTES

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SSMH REMOVAL NOTES

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- PLUG ALL PIPE PENETRATIONS WITH WATERTIGHT PLUG (BRICK AND MORTAR).
- ABANDON IN PLACE (E) 24" Ø SS MAIN AND FILL WITH 2 SACK SLURRY CEMENT.

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03/05/2025



FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
PLAN & PROFILES

PROVOST & PRITCHARD
2481 KASSEL BLVD., SUITE 200
LOS BANOS, CALIFORNIA 93835
PHONE (209) 829-1885
FAX (209) 829-1675
www.provostandpritchard.com

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH

DATE: 03/05/2025
JOB NO: 350123011

PROJECT NO: CLB 2023-019

PHASE:

ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET
PP2

8 OF 33

3/4/2025 5:01 PM g:\os banos_city of 350123011-sewer pipeline replacement\03_Plan_ & Profiles\PP2 STA 33+00 TO 51+80.dwg Antonio Bajaran

CONSTRUCTION LEGEND

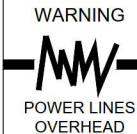
	CONSTRUCT 60" MANHOLE	
	CONSTRUCT SEWER JUNCTION BOX	
	SAWCUT AND REMOVE (E) ASPHALT PAVEMENT. CONSTRUCT PAVEMENT PLUG.	
	R&R AC ROADWAY PAVEMENT AND CURB & GUTTER	
	ALIGNMENT CHANGE	

CONSTRUCTION NOTES

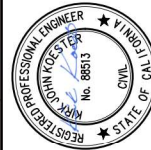
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- CONTRACTOR TO CONSTRUCT A CONCRETE APRON IN MANHOLES LOCATED IN UNPAVED AREAS PER DETAIL 5 ON SHEET D3

SSMH REMOVAL NOTES

- (P) 36" Ø SEWER PIPELINE SHALL BE OPERATIONAL BEFORE ANY ABANDONMENT IN PLACE OF (E) 24" Ø SEWER MAIN AND (E) SEWER MANHOLES.
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- PLUG ALL PIPE PENETRATIONS WITH WATERTIGHT PLUG (BRICK AND MORTAR).
- ABANDON IN PLACE (E) 24" Ø SS MAIN AND FILL WITH 2 SACK SLURRY CEMENT.



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03/05/2025



FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
CIVIL

EXISTING UTILITY CONNECTION

DATE SIGNED: 03/05/2025

REVISION

BY

DATE

3/4/2025 5:07 PM g:\os banos_city_of-3501350123011-sewer pipeline replacement at wwp300 CAD340 sheet ss1sewer pipeline replacement02_CivilC1 EXISTING UTILITY CONNECTION.dwg Antonio Bajarano

PROVOST & PRITCHARD
248 N. B STREET, SUITE 200, LOS BANOS, CA 93801
PHONE (209) 829-1685
FAX (209) 829-1675
www.provostandpritchard.com

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88613

DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH

DATE: 03/05/2025

JOB NO: 350123011

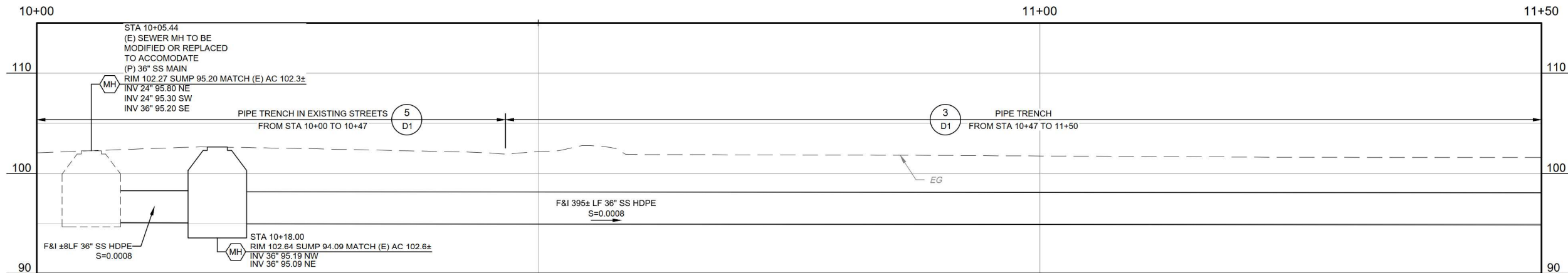
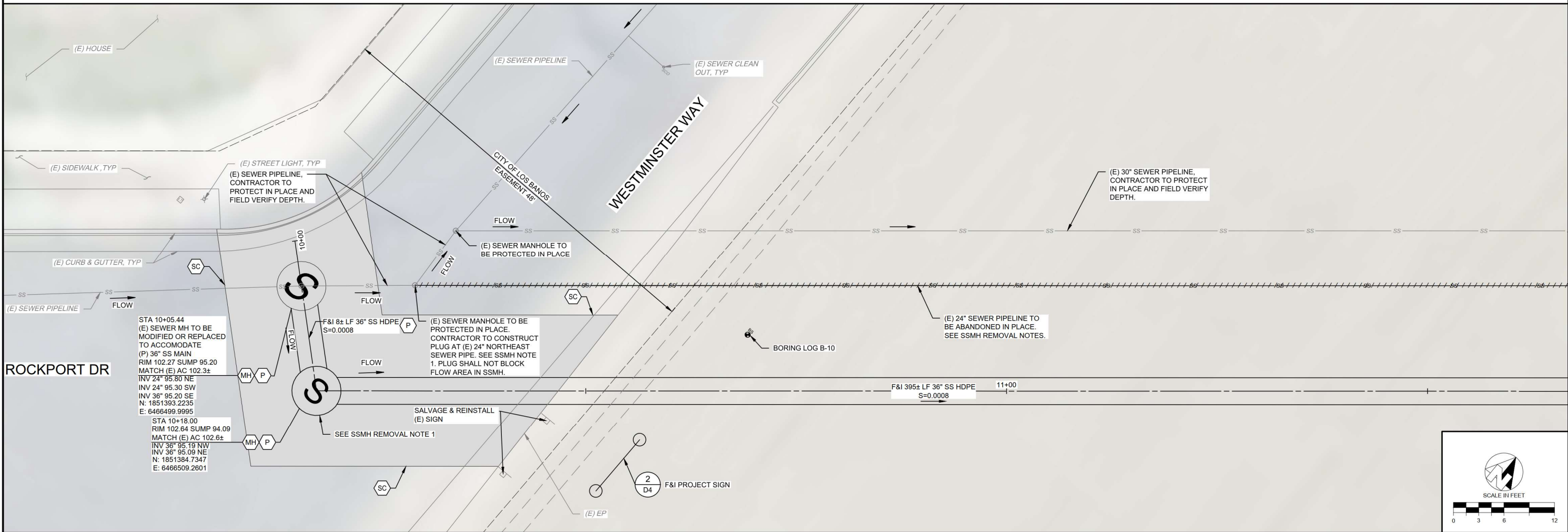
PROJECT NO: CLB 2023-019

PHASE:

ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET
C1

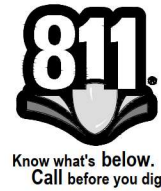
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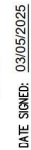
(MH)	CONSTRUCT 60" MANHOLE	$\frac{1}{D1}$
(SJB)	CONSTRUCT SEWER JUNCTION BOX	$\frac{1}{D3}$
(P)	SAWCUT AND REMOVE (E) ASPHALT PAVEMENT. CONSTRUCT PAVEMENT PLUG.	$\frac{5}{D1}$
(SC)	R&R AC ROADWAY PAVEMENT AND CURB & GUTTER	$\frac{5}{D1}$ $\frac{6}{D1}$
(AC)	ALIGNMENT CHANGE	

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6. CONTRACTOR SHALL FURNISH AND INSTALL SEWER BYPASS WITH A DRY PEAK FLOW OF 5.0 MGD AND WET PEAK FLOW OF 12.0 MGD.
7. CONTRACTOR TO CONSTRUCT A CONCRETE APRON IN MANHOLES LOCATED IN UNPAVED AREAS PER DETAIL 5 ON SHEET D3

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100% DESIGN PLANS
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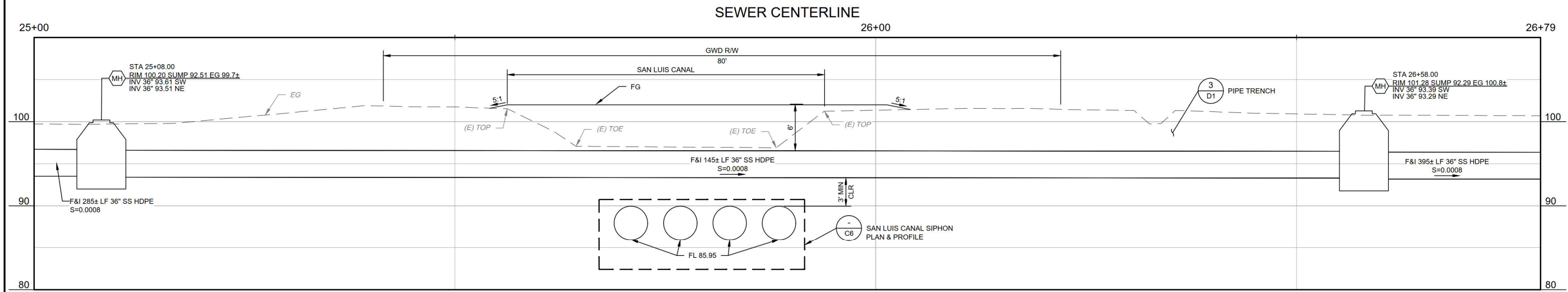
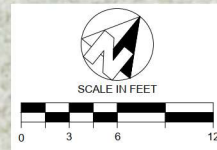


FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
CIVIL

SAN LUIS CANAL CROSSING

DESIGN ENGINEER: KIRK KOESTER	
LICENSE NO: RCE 88513	
DRAFTED BY: PD, CAJ	CHECKED BY: KK, GMH
DATE: 03/05/2025	
JOB NO: 350123011	
PROJECT NO: CLB 2023-019	
PHASE:	
 0 1"	
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.	
SHEET C2	

	ONE R LANS	9	D BY:		SAN LUIS CANAL CROSSING	CivilC2 SAN LUIS CAVAL CROSSING.dwg Antonio Balarino
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NOTES

1. CONTRACTOR TO PROTECT IN PLACE (E) USBR FACILITIES

CONSTRUCTION LEGEND

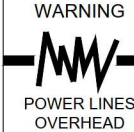
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SSMH REMOVAL NOTES

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SAN LUIS DRAIN CROSSING

PROVOST & PRITCHARD
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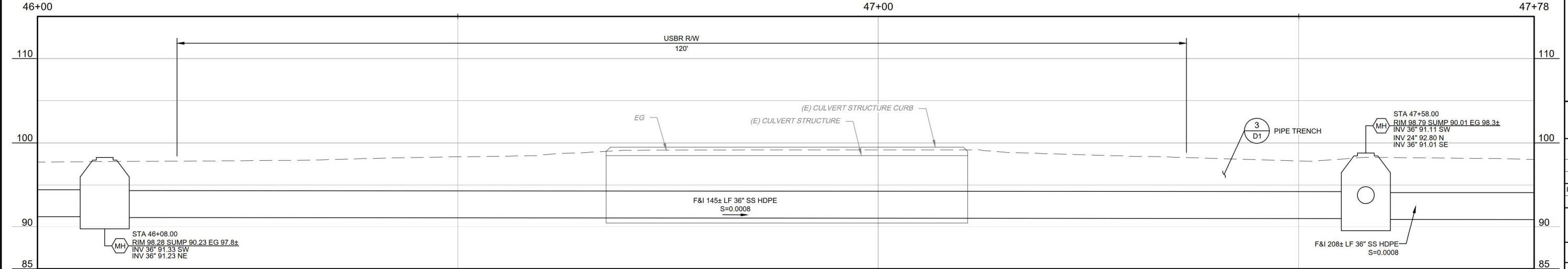
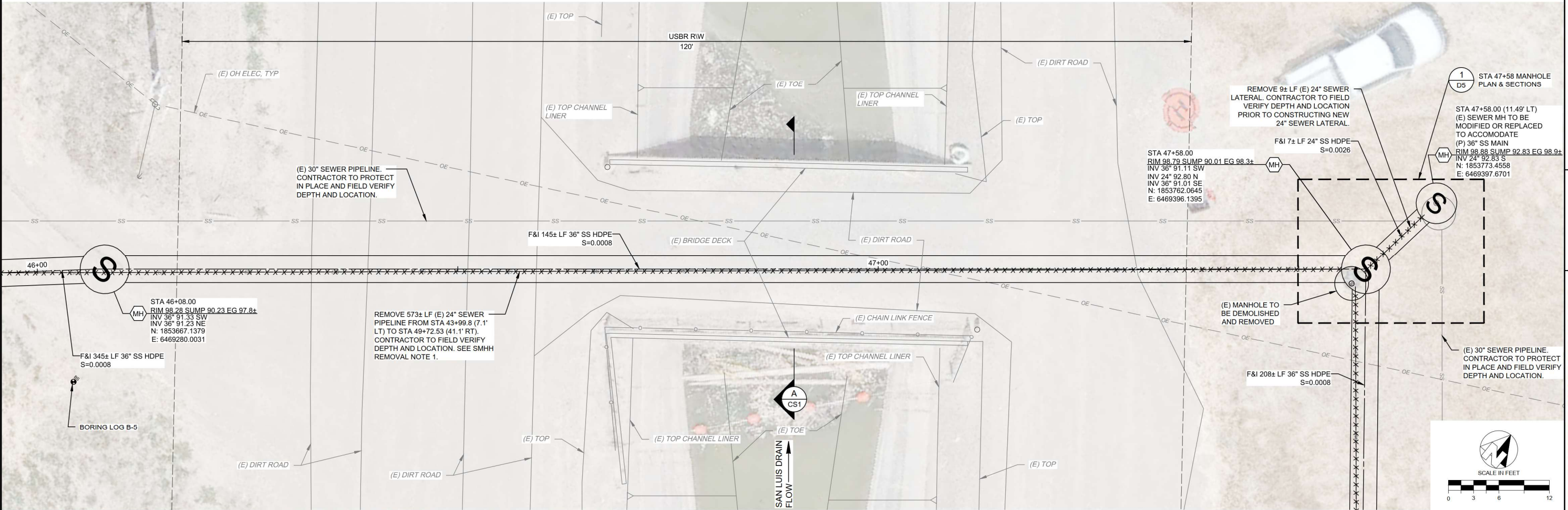
PROJECT NO: CLB 2023-019

PHASE:

ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET C3

11 OF 33



CONSTRUCTION LEGEND

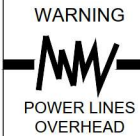
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IN MERCED COUNTY
CIVIL

SANTA FE CANAL CROSSING

PROVOST & PRITCHARD
248 N. BAKER ST., SUITE 200
LOS BANOS, CALIFORNIA 93801
PHONE (209) 829-1685
FAX (209) 829-1675
www.provostandpritchard.com

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88613

DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH

DATE: 03/05/2025

JOB NO: 350123011

PROJECT NO: CLB 2023-019

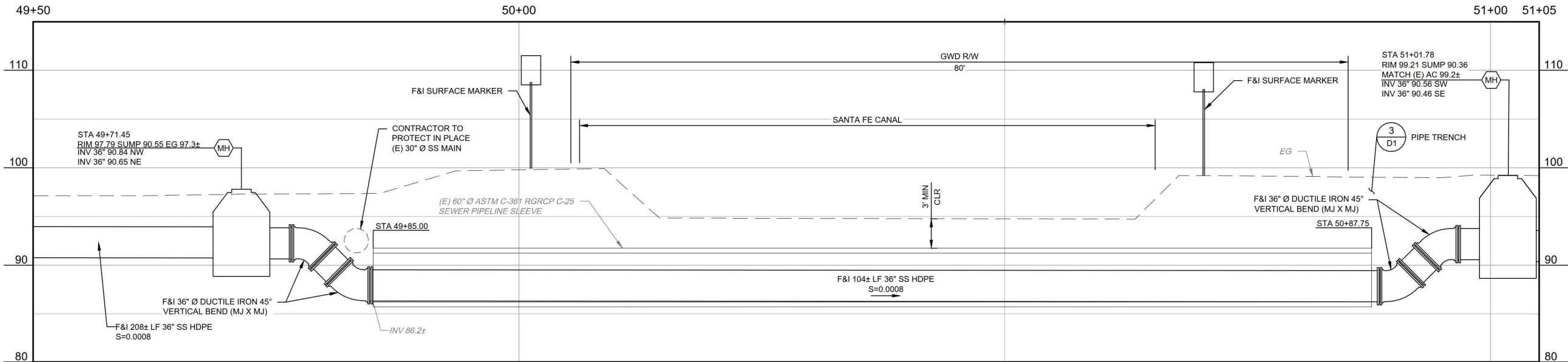
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ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET
C4

12 OF 33

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CONSTRUCTION LEGEND

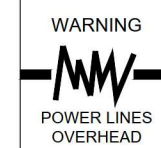
	CONSTRUCT 60" MANHOLE	
	CONSTRUCT SEWER JUNCTION BOX	
	SAWCUT AND REMOVE (E) ASPHALT PAVEMENT. CONSTRUCT PAVEMENT PLUG.	
	R&R AC ROADWAY PAVEMENT AND CURB & GUTTER	 
	ALIGNMENT CHANGE	

CONSTRUCTION NOTES

1. PROTECT EXISTING UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY DISCREPANCIES.
3. ALL SAWCUT LINES SHALL BE STRAIGHT AND NEAT TO MATCH EXISTING CONDITIONS.
4. RIM ELEVATION OF PROPOSED MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE EXISTING GRADE.
5. PAVEMENT SHALL BE REPLACED ACCORDING TO MERCED COUNTY/CITY OF LOS BANOS STANDARDS AND PAVING DETAIL ON SHEET D1.
6. CONTRACTOR SHALL FURNISH AND INSTALL SEWER BYPASS WITH A DRY PEAK FLOW OF 5.0 MGD AND WET PEAK FLOW OF 12.0 MGD.
7. CONTRACTOR TO CONSTRUCT A CONCRETE APRON IN MANHOLES LOCATED IN UNPAVED AREAS PER DETAIL 5 ON SHEET D3

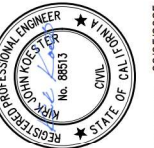
SSMH REMOVAL NOTES

1. (P) 36" Ø SEWER PIPELINE SHALL BE OPERATIONAL BEFORE ANY ABANDONMENT IN PLACE OF (E) 24" Ø SEWER MAIN AND (E) SEWER MANHOLES.
2. ABANDON (E) SEWER MANHOLES IN PLACE. REMOVE CONE SECTION OF MANHOLE TO 4' BELOW FINISH GRADE. FILL MANHOLE WITH 2 SACK SLURRY CEMENT AND COVER WITH LOOSELY COMPACTED NATIVE MATERIAL TO FINISH GRADE.
3. PLUG ALL PIPE PENETRATIONS WITH WATERTIGHT PLUG (BRICK AND MORTAR).
4. ABANDON IN PLACE (E) 24" Ø SS MAIN AND FILL WITH 2 SACK SLURRY CEMENT.



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100% DESIGN PLANS
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03/05/2025



DATE SIGNED: 03/05/2025

FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
CIVIL

WWW.IFUTILITYCONNECTION

**PROVOST &
PRITCHARD**
249 W. PACHECO BLVD., SUITE B
LOS BANOS, CALIFORNIA 93635
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FAX (209) 829-1675
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DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY: PD, CAJ	CHECKED BY: KK, GMH
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DATE: 03/05/2025

JOB NO: 350123011

PROJECT NO: CLB 2023-019

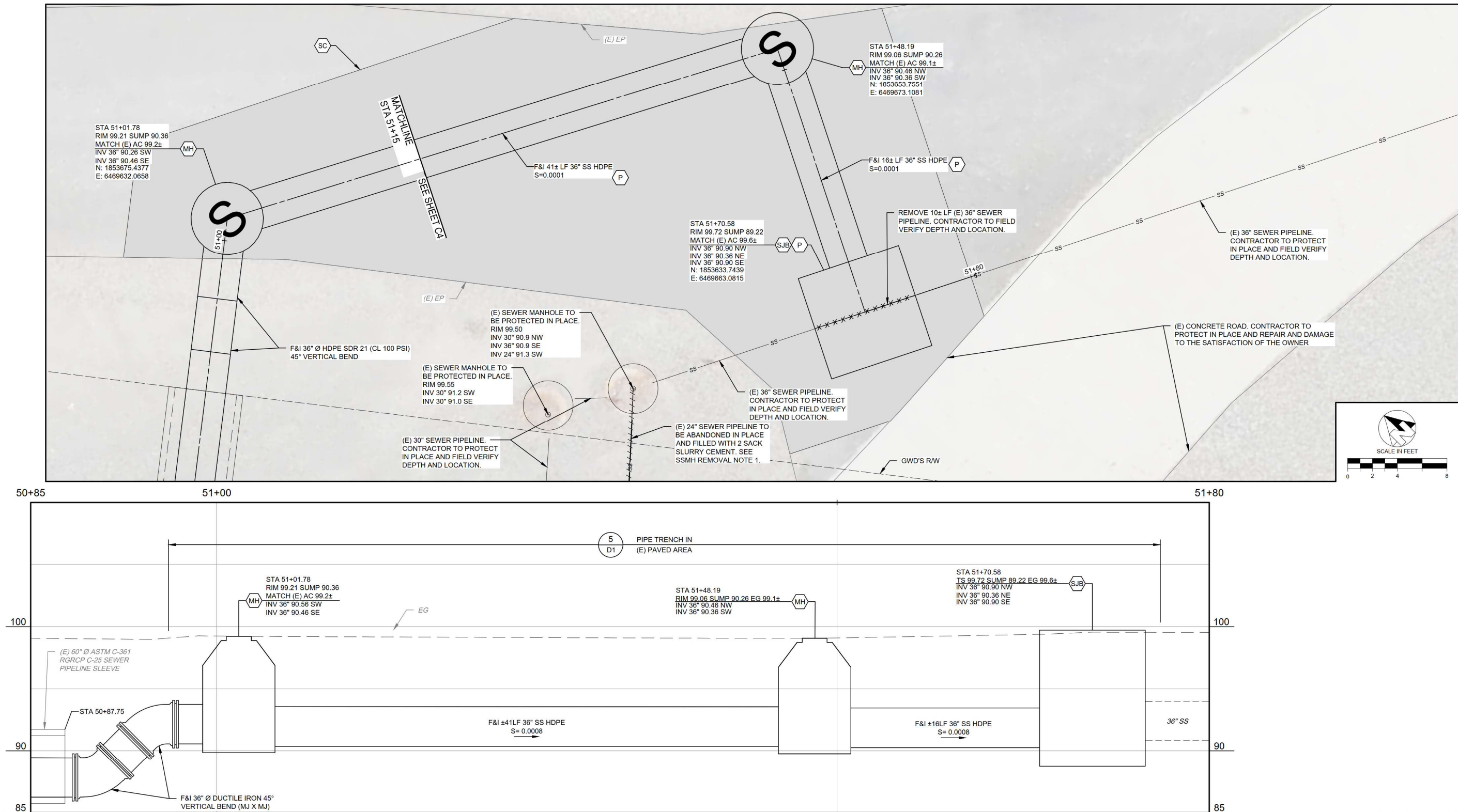
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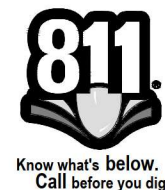
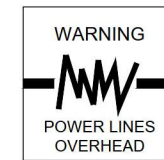
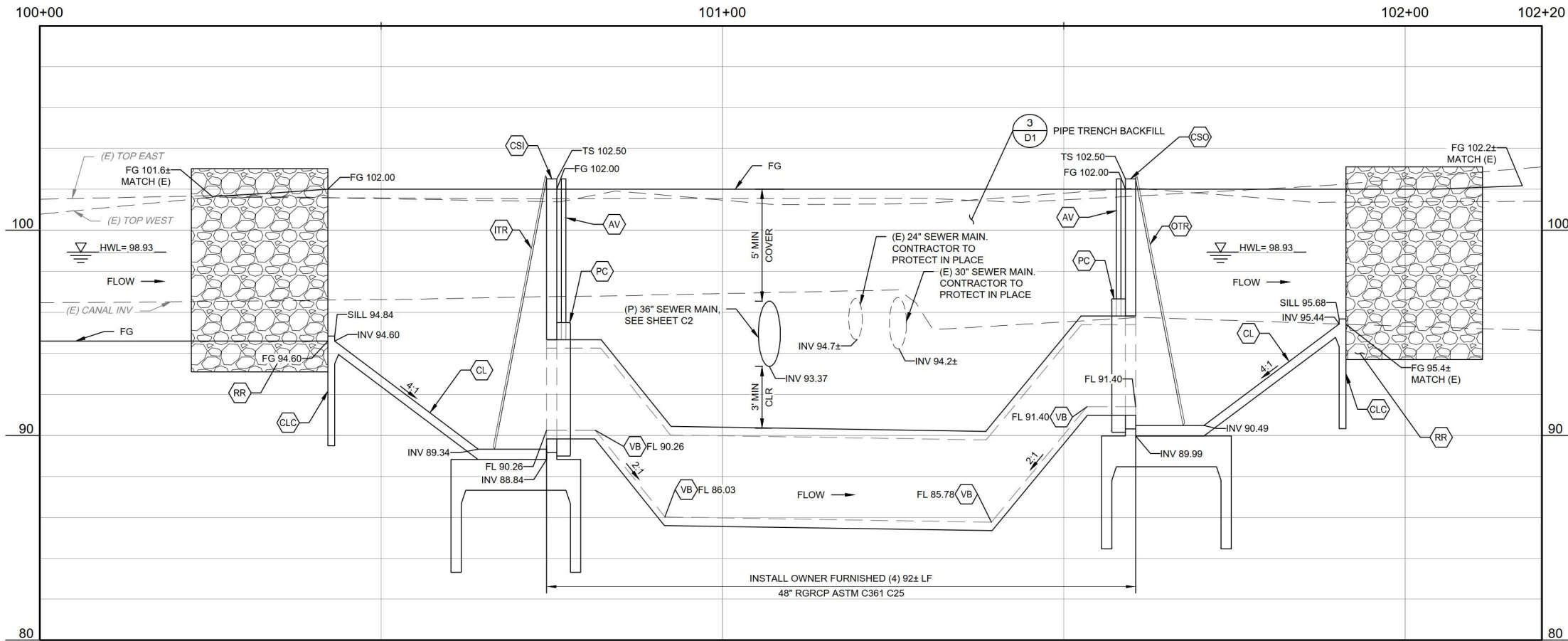
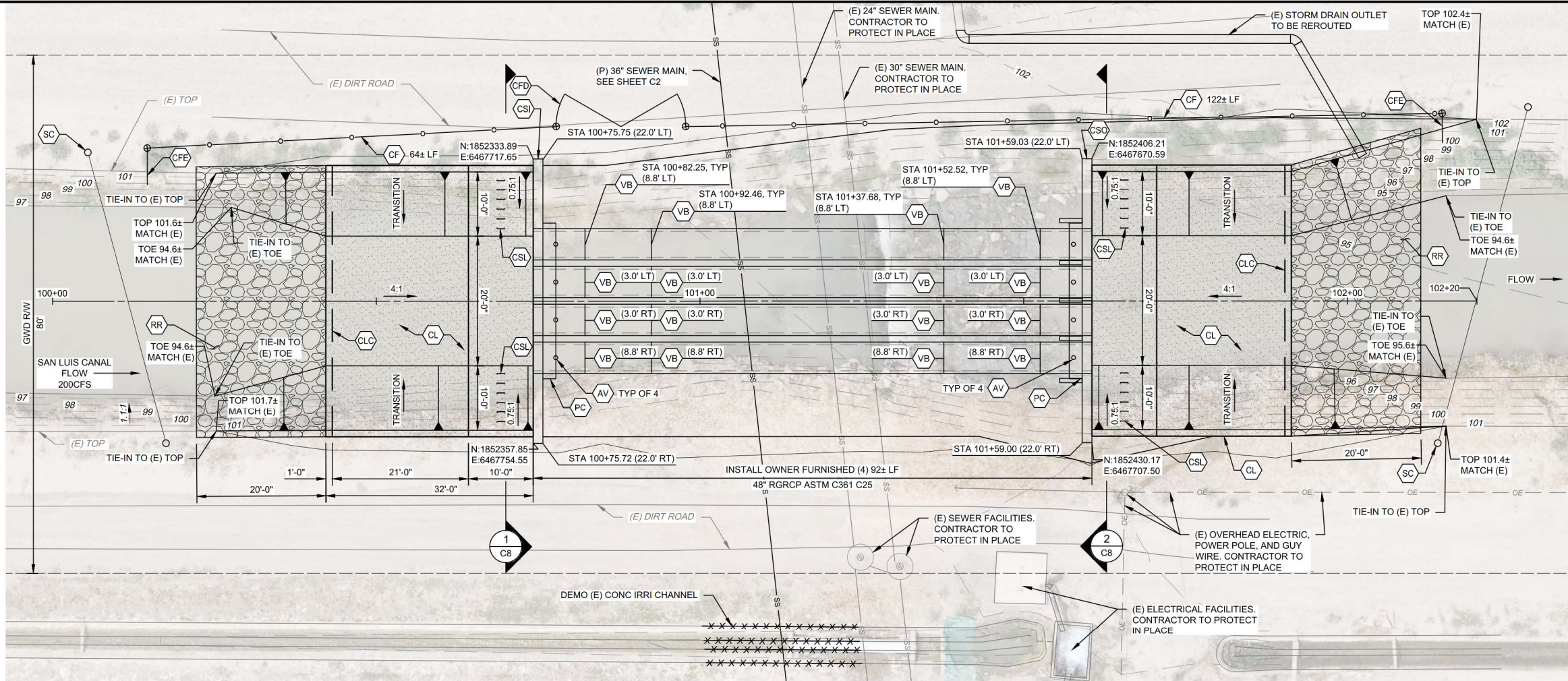
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ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET **C5**

13 OF 33



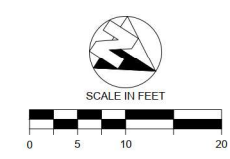


- SSMH REMOVAL NOTES**
- (P) 36" Ø SEWER PIPELINE SHALL BE OPERATIONAL BEFORE ANY ABANDONMENT IN PLACE OF (E) 24" Ø SEWER MAIN AND (E) SEWER MANHOLES.
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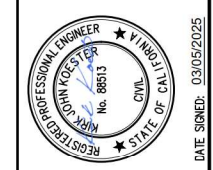
- CONSTRUCTION NOTES**
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 - CONTRACTOR TO CONSTRUCT A CONCRETE APRON IN MANHOLES LOCATED IN UNPAVED AREAS PER DETAIL 5 ON SHEET D3

CONSTRUCTION LEGEND:

AV	CONSTRUCT AIR VENT	4	D2
CF	F&I CHAIN LINK FENCE	2	D8
CFD	F&I 20' CHAIN LINK FENCE DOUBLE DRIVE GATE	1	D8
CFE	F&I CHAIN LINK FENCE EXTENSION	3	D8
CL	CONSTRUCT CANAL LINING	1	D7
CLC	CONSTRUCT CANAL LINING CUTOFF WALL	4	D7
CSI	CONSTRUCT SIPHON INLET STRUCTURE	-	S3
CSL	F&I CANAL SAFETY LADDER	6	D7
CSO	CONSTRUCT SIPHON OUTLET STRUCTURE	-	S3
ITR	F&I INLET TRASH RACK	6	D2
OTR	F&I OUTLET TRASH RACK	7	D2
PC	CONSTRUCT PIPE COLLAR	3	S1
RR	F&I RIP RAP 1' MIN PAST TOP OF BANK	5	D2
SC	F&I SAFETY CABLE & FLOAT ASSEMBLY	3	D7
VB	F&I 22.5" VERTICAL BEND AND THRUST BLOCK	2	S2
		3	D2



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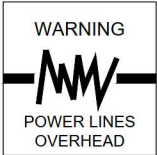


FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
CIVIL
SAN LUIS CANAL SIPHON
PLAN AND PROFILE

PROVOST & PRITCHARD
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DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88613
DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH
DATE: 03/05/2025
JOB NO: 350123011
PROJECT NO: CLB 2023-019
PHASE:
ORIGINAL SCALE SHOWN IS ONE
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SHEET **C6**
14 OF 33

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FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
CIVIL
SAN LUIS CANAL SIPHON
GRADING

PROVOST & PRITCHARD
248 N. MARKET STREET, SUITE 200
LOS BANOS, CALIFORNIA 93801
PHONE (209) 829-1885
FAX (209) 829-1675
www.provostandpritchard.com

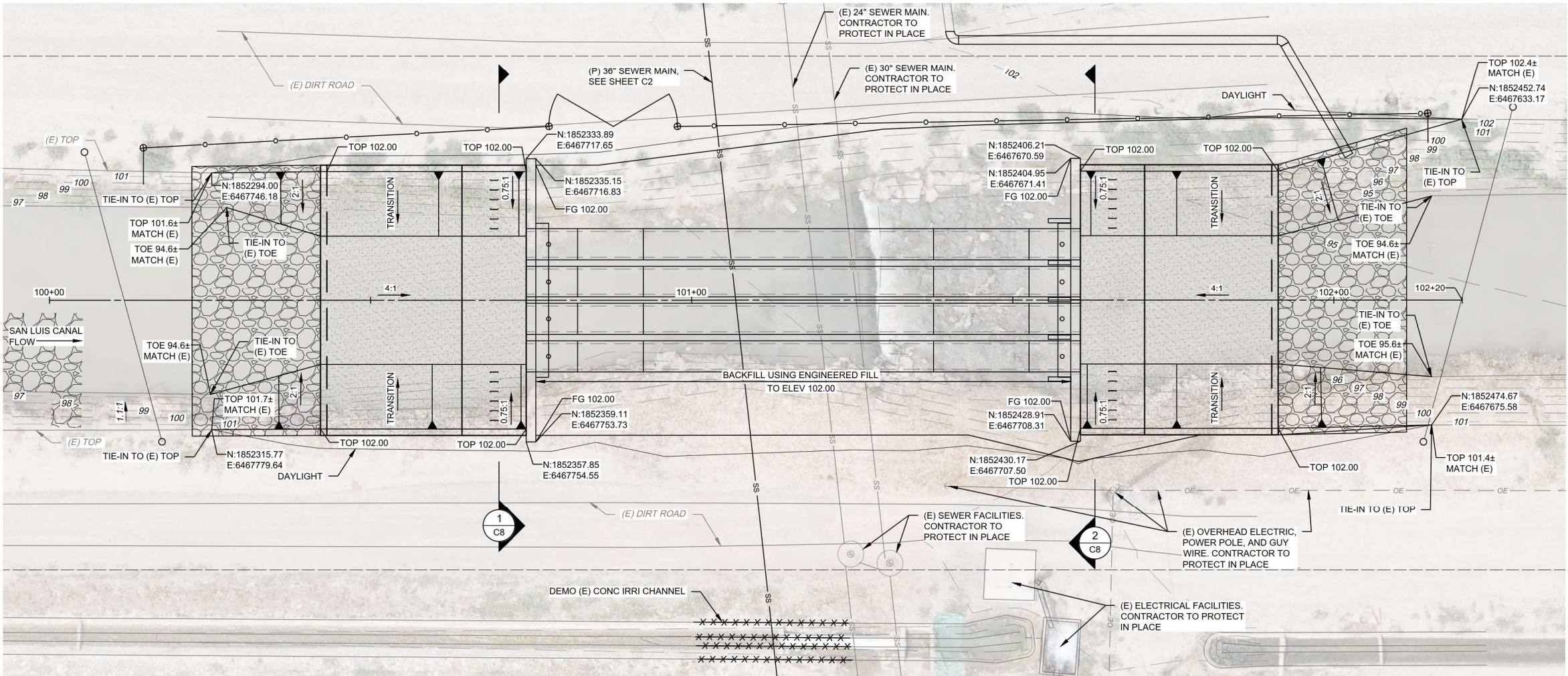
DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513
DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH
DATE: 03/05/2025
JOB NO: 350123011
PROJECT NO: CLB 2023-019
PHASE:
ORIGINAL SCALE SHOWN IS ONE
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SHEET
C7
15 OF 33

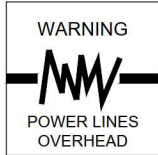
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CONSTRUCTION NOTES

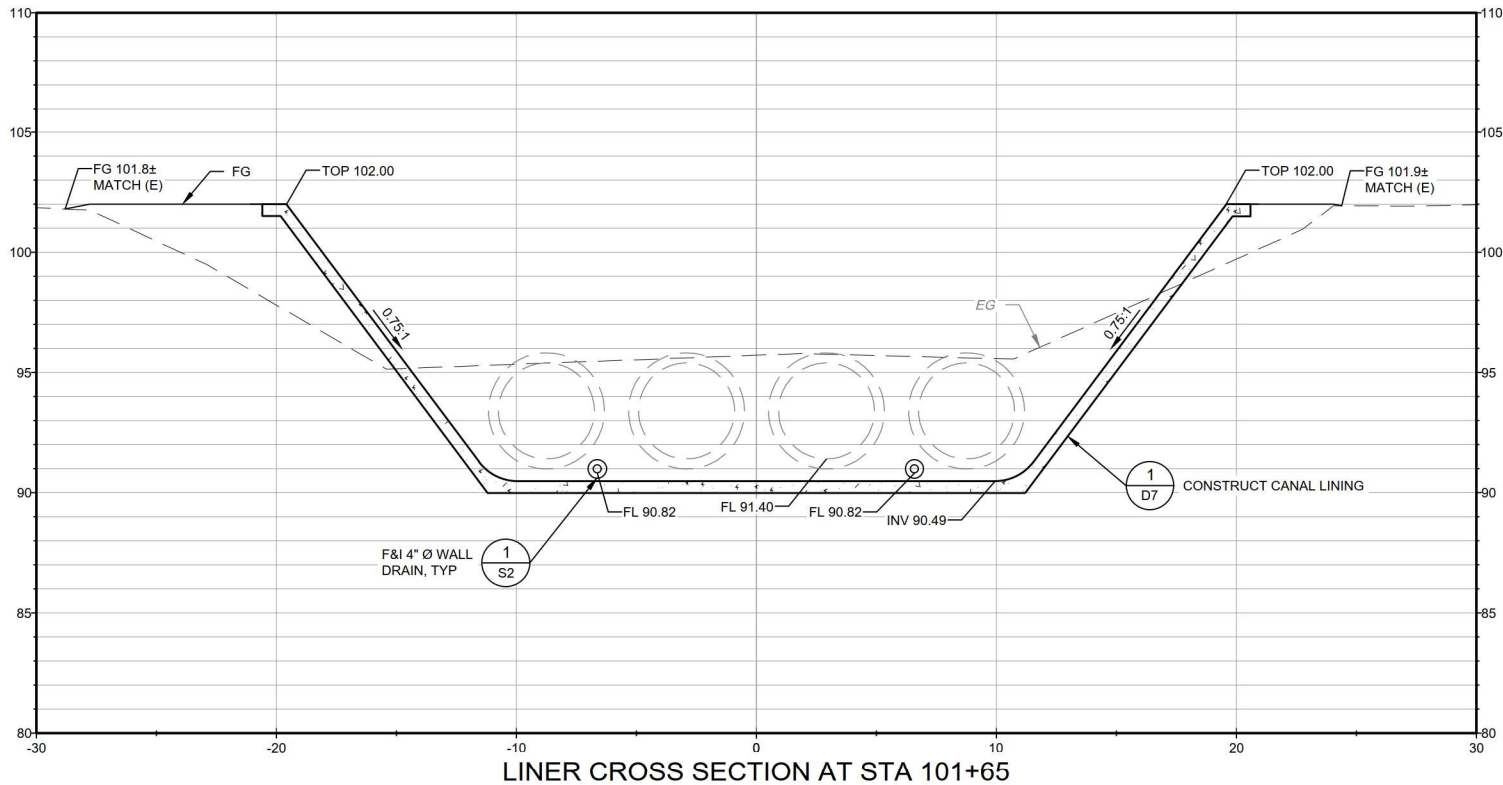
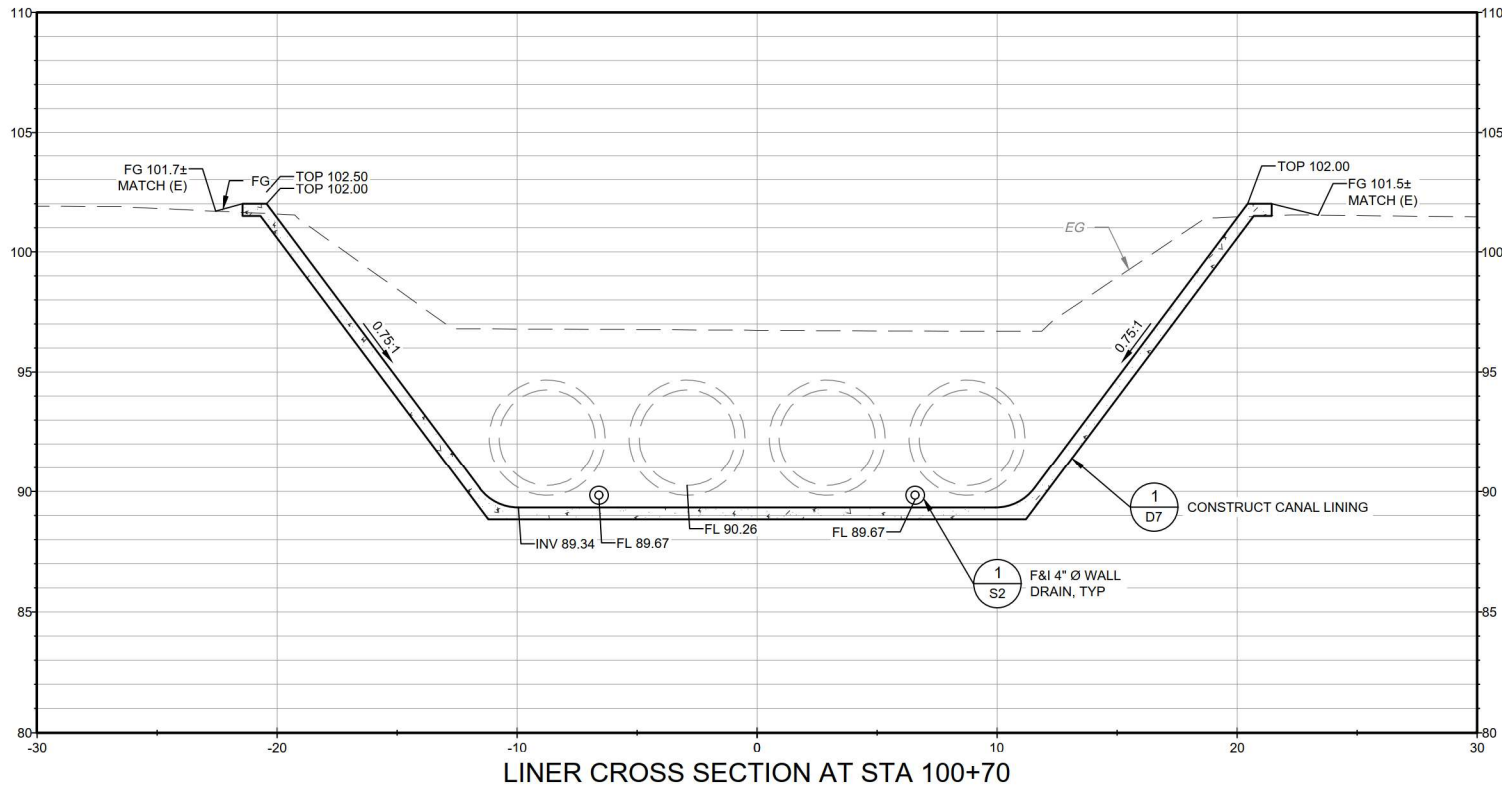
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1
C8

2
C8



- NOTES
- SAN LUIS CANAL SIPHON RETAINING WALL NOT SHOWN FOR CLARITY

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03/05/2025

PROFESSIONAL ENGINEER
KIRK KOESTER
No. 88513
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/05/2025

FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
CIVIL

SAN LUIS CANAL SECTIONS

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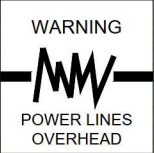
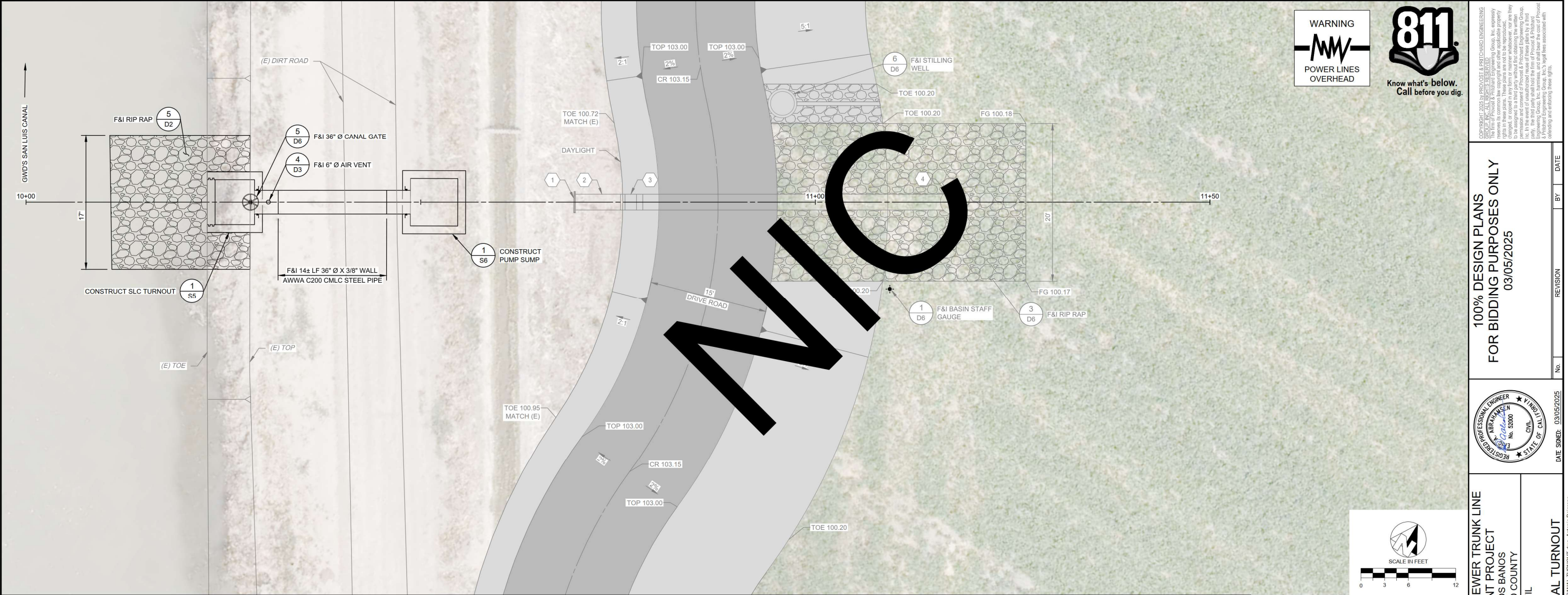
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PHASE:

0 1"
INCH, ADJUST SCALE FOR
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SHEET
C8

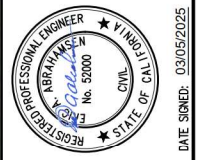
16 OF 33

3/4/2025 5:04 PM g:\os banos_city of 350123011-sewer pipeline replacement at wwp\300 CAD\340 sheet ss\sewer pipeline replacement\02_Civil\08 SAN LUIS CANAL SECTIONS.dwg -Antonio Bajarano



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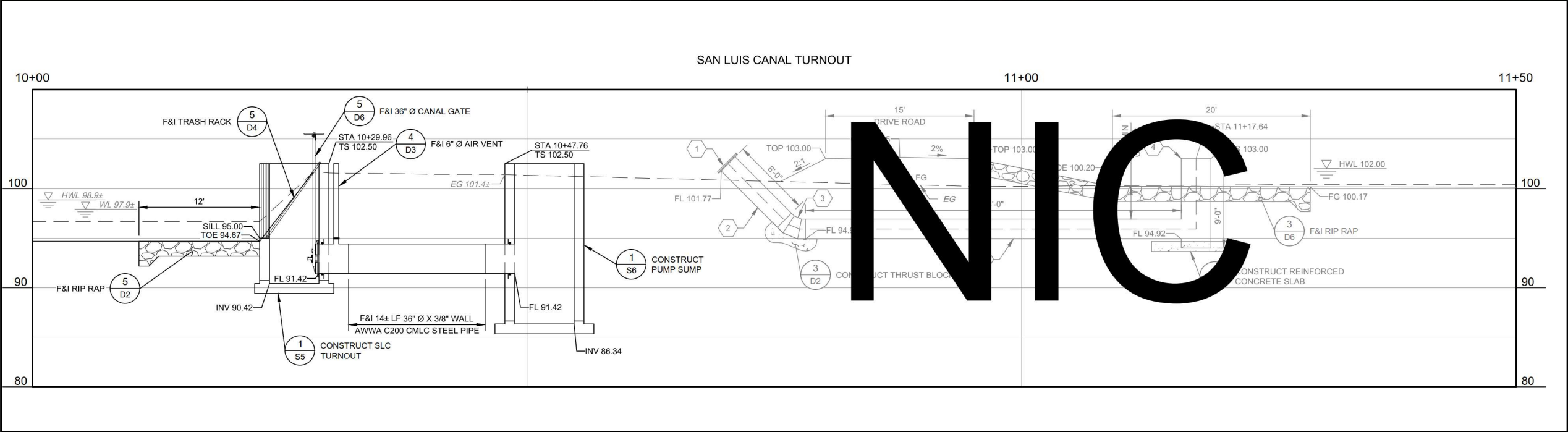


FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
CIVIL

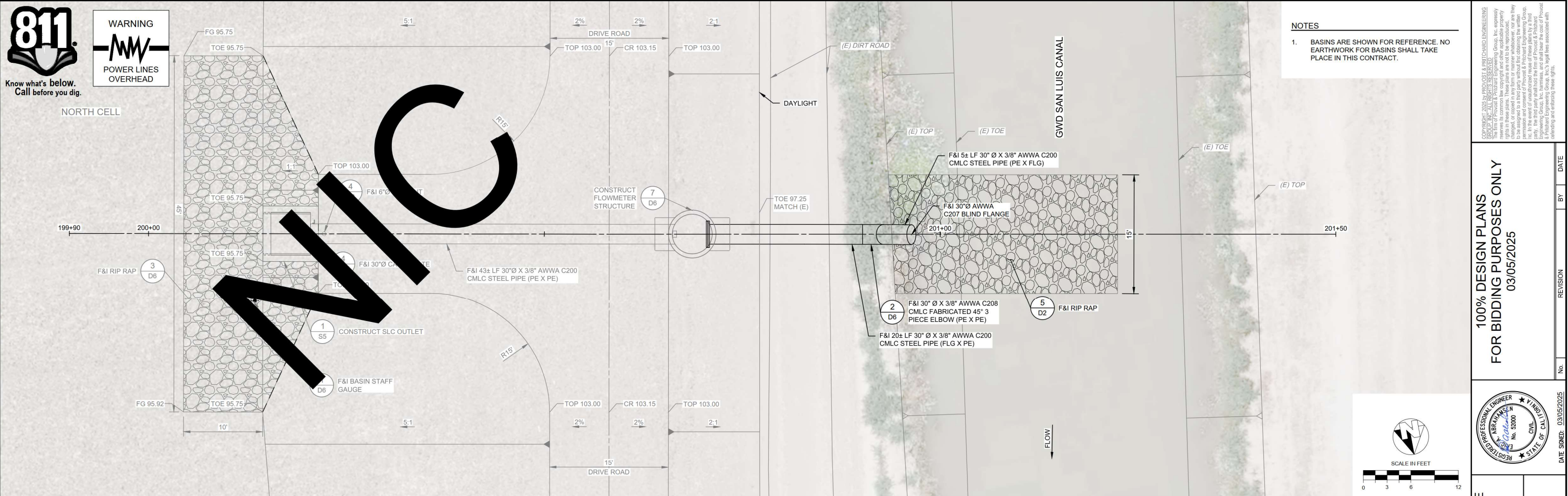
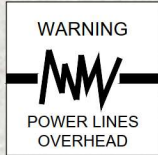
SAN LUIS CANAL TURNOUT

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

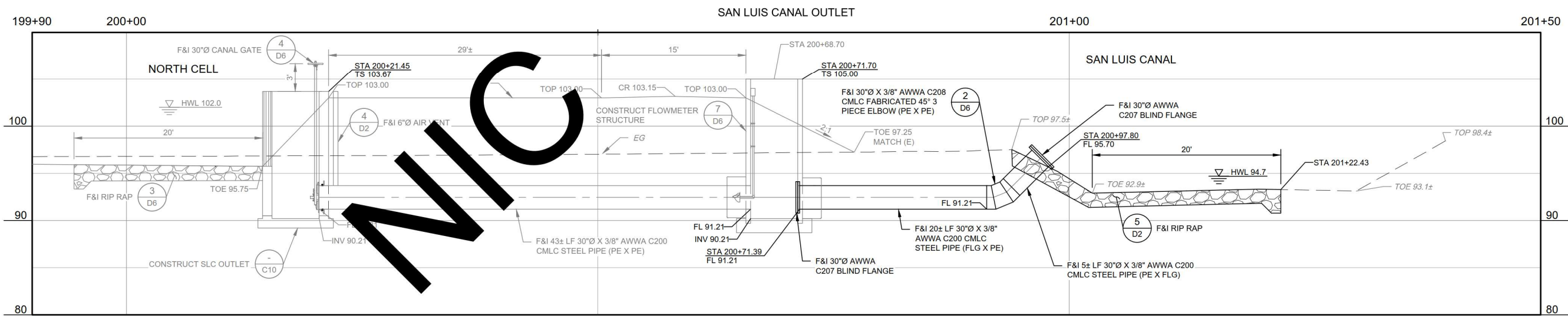
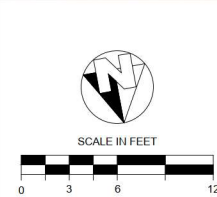
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JOB NO: 350123011
PROJECT NO: CLB 2023-019
PHASE:
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.
SHEET C9
17 OF 33



- CONSTRUCTION LEGEND
- 1 F&I 24" Ø AWWA C207 BLIND FLANGE
 - 2 F&I 24" Ø X 3/8" WALL AWWA C200 CMLC STEEL PIPE
 - 3 F&I 24" Ø AWWA C208 CMLC FABRICATED 45° 3 PIECE ELBOW (PE X FLG)
 - 4 F&I 36" Ø X 3/8" WALL AWWA C200 CMLC STEEL PIPE
- NOTES
- BASINS ARE SHOWN FOR REFERENCE. NO EARTHWORK FOR BASINS SHALL TAKE PLACE IN THIS CONTRACT.



- NOTES**
- BASINS ARE SHOWN FOR REFERENCE. NO EARTHWORK FOR BASINS SHALL TAKE PLACE IN THIS CONTRACT.



100% DESIGN PLANS
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PROFESSIONAL ENGINEER
KIRK KOESTER
No. 52000
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/05/2025

FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
CIVIL

SAN LUIS CANAL OUTLET

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY:
PD, CAJ

CHECKED BY:
KK, GMH

DATE: 03/05/2025

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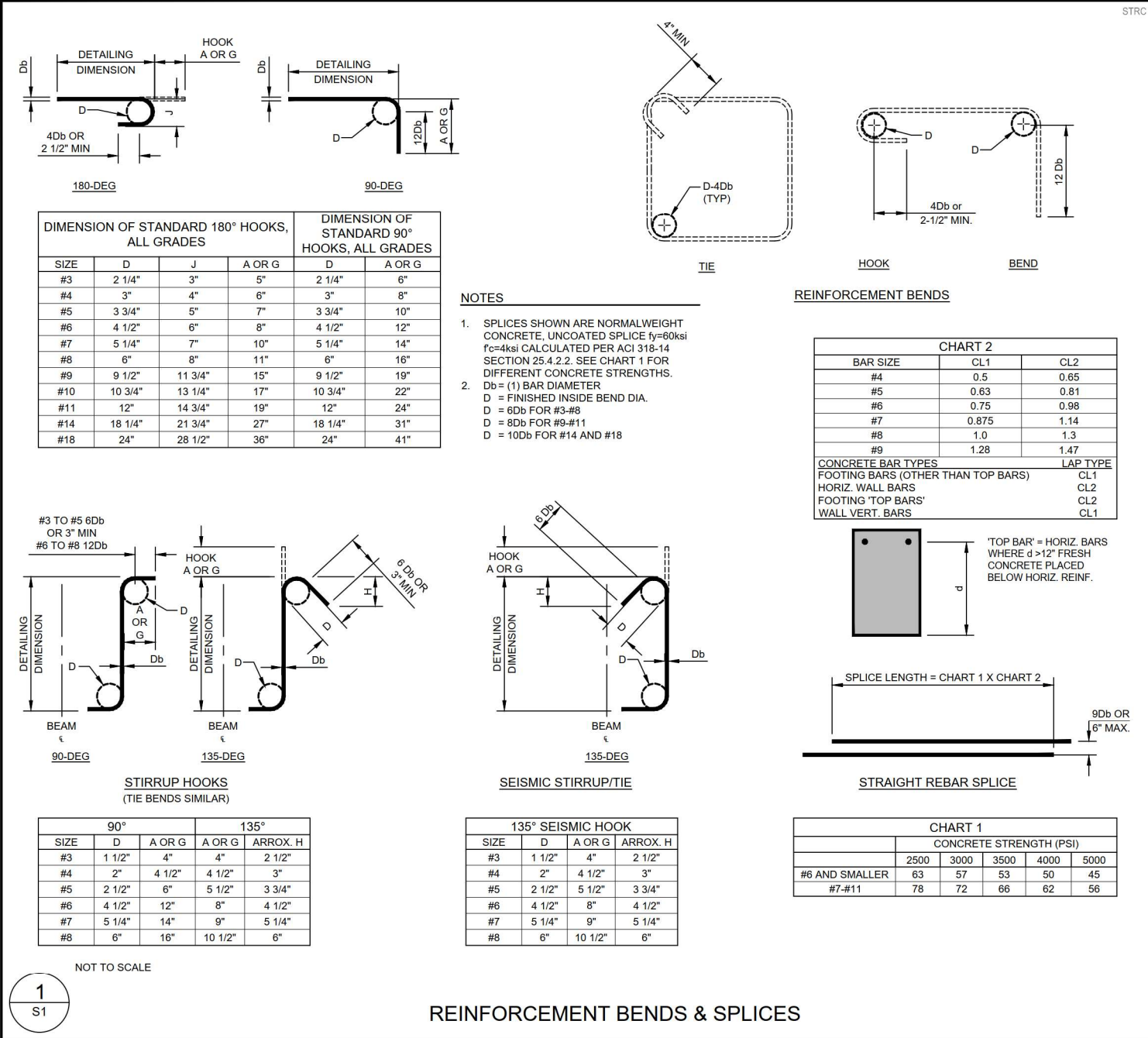
ORIGINAL SCALE SHOWN IS ONE
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SHEET
C10

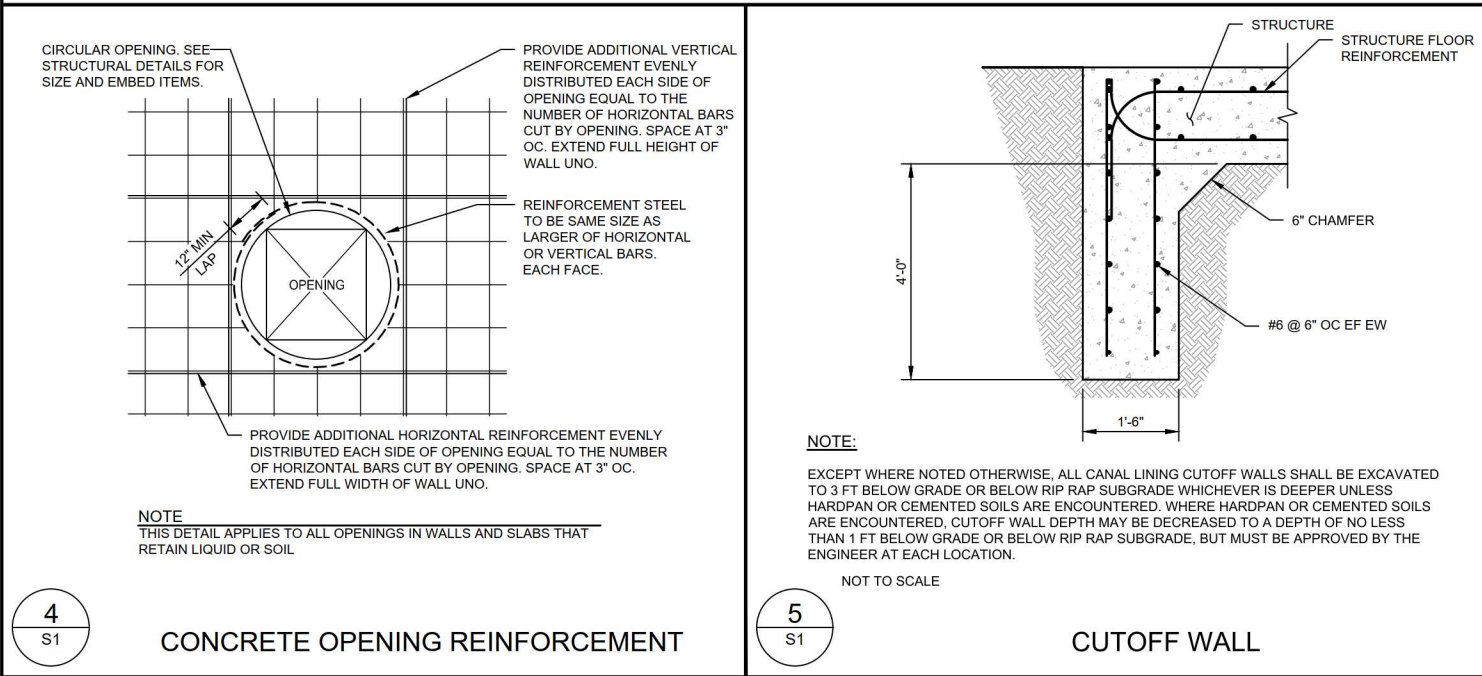
18 OF 33

PROVOST & PRITCHARD
1455 W. RIVER AVENUE
CLAYTON, CA 94520
PHONE (559) 449-2700
FAX (559) 449-2715
www.provostandpritchard.com

3/4/2025 5:05 PM g:\los banos_city of 350123011-sewer pipeline replacement at wwpb300 CAD340 sheet sss\sewer pipeline replacement02_civil\C10 SAN LUIS CANAL OUTLET.dwg Antonio Bajarano



REINFORCEMENT BENDS & SPLICES



STRUCTURAL GENERAL NOTES

- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- ANY SUPPORT SERVICES PERFORMED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE OWNER'S REPRESENTATIVE WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

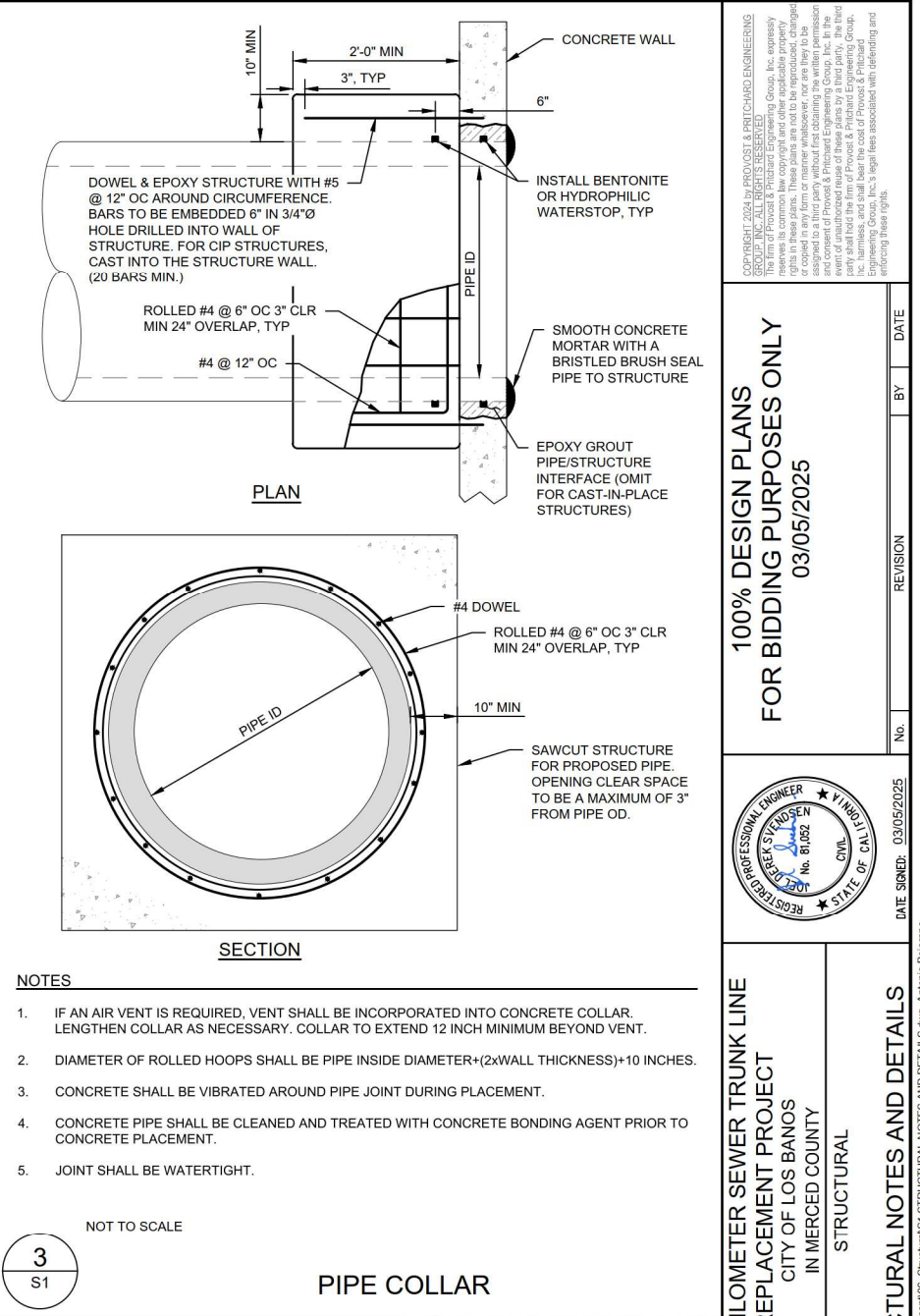
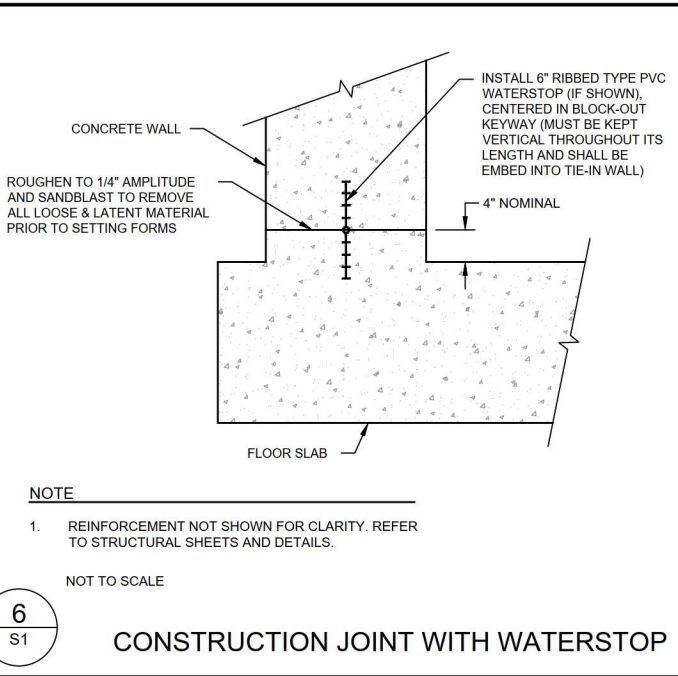
SPECIAL INSPECTION NOTES

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS BEFORE PLACEMENT OF REINFORCING STEEL AND CONCRETE SO THAT THE SUBGRADE OF EXCAVATIONS MAY BE INSPECTED BY THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL VERIFY BACKFILL MATERIAL, BACKFILLING PROCEDURES, AND SOIL COMPACTION TESTS.
- STRUCTURAL OBSERVATION SHALL BE PROVIDED BY THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH CBC 2022, SECTION 1704. STRUCTURAL OBSERVATION SHALL CONSIST OF SITE VISITS AT INTERVALS APPROPRIATE TO THE STAGE OF CONSTRUCTION TO OBSERVE CONSTRUCTION IN PROGRESS AND REVIEW OF TESTING AND INSPECTION REPORTS FOR GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS RELATING TO THE STRUCTURAL WORK AND THE NONSTRUCTURAL COMPONENTS AND EQUIPMENT ANCHORAGE.
- SPECIAL INSPECTION IN ACCORDANCE WITH CBC 2022 SECTION 1707, SHALL BE REQUIRED AS INDICATED IN THE SPECIAL INSPECTION AND TESTING SCHEDULE ON THIS SHEET.
- ALL SPECIAL INSPECTIONS REQUIRED MUST BE BY APPROVED INDEPENDENT INSPECTORS WHO SHALL BE RETAINED BY THE OWNER. INSPECTORS SHALL SUBMIT THEIR REPORTS DIRECTLY TO THE OWNER. THESE INSPECTORS ARE IN ADDITION TO ANY REQUIRED INSPECTIONS. CONTRACTOR SHALL COORDINATE INSPECTIONS AND ALLOW ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM REQUIRED INSPECTIONS.

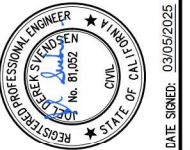
CONCRETE NOTES

- SUBMIT CONCRETE LIFT DRAWINGS SHOWING THE LOCATION OF CONSTRUCTION JOINTS AND OTHER TYPES OF JOINTS OTHER THAN SPECIFIED OR SHOWN ON THE DRAWINGS FOR FAVORABLE REVIEW BY THE OWNER'S REPRESENTATIVE BEFORE START OF WORK ON FORMS, REINFORCING STEEL OR PLACING CONCRETE. ANY ADDITIONAL VERTICAL OR HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE A STANDARD KEYWAY AND SHALL BE FAVORABLY REVIEWED BY THE OWNER'S REPRESENTATIVE. REFER TO SPECIFICATIONS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO 1/4 INCH AMPLITUDE.
- OPENINGS, PIPE SLEEVES, CONDUITS, INSERTS, AND OTHER EMBEDDED ITEMS SHALL BE IN PLACE BEFORE CONCRETE IS PLACED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE CIVIL, MECHANICAL, ELECTRICAL, INSTRUMENTATION, AND OTHER PLANS FOR ITEMS REQUIRING SLEEVES AND EMBEDMENT IN CONCRETE WHICH ARE NOT INDICATED OR SHOWN ON STRUCTURAL DRAWINGS. NO PIPES OR SLEEVES SHALL PASS THROUGH STRUCTURAL MEMBERS UNLESS SHOWN ON STRUCTURAL DRAWINGS. COORDINATE WITH EQUIPMENT MANUFACTURER'S DRAWINGS FOR ANCHORING DEVICES.
- ALL EXTERIOR SLABS SHALL BE SLOPED TO ALLOW DRAINAGE OF RUNOFF WATER TO PREVENT PONDING.
- UNLESS NOTED OTHERWISE, ALL EXPOSED EDGES AND CORNERS SHALL BE CHAMFERED 3/4 INCH. INTERIOR FLOORS AND EXTERIOR SIDEWALKS SHALL HAVE TOOLED 3/8 INCH RADIUS CONSTRUCTION JOINTS.
- ALL EXISTING ASPHALT AND CONCRETE IMPROVEMENTS SHOWN TO BE REMOVED SHALL BE SAWCUT A MINIMUM DEPTH OF 2 INCHES PRIOR TO REMOVAL.
- CONCRETE STRENGTH $f'_c = 4,000$ PSI @ 28 DAYS.
- CONCRETE REINFORCING STEEL SHALL BE GRADE 60 PER ASTM A615 IN ACCORDANCE WITH SECTION 03 20 00 OF SPECIFICATIONS.

NOTES



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FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
STRUCTURAL

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH

DATE: 03/05/2025

JOB NO: 350123011

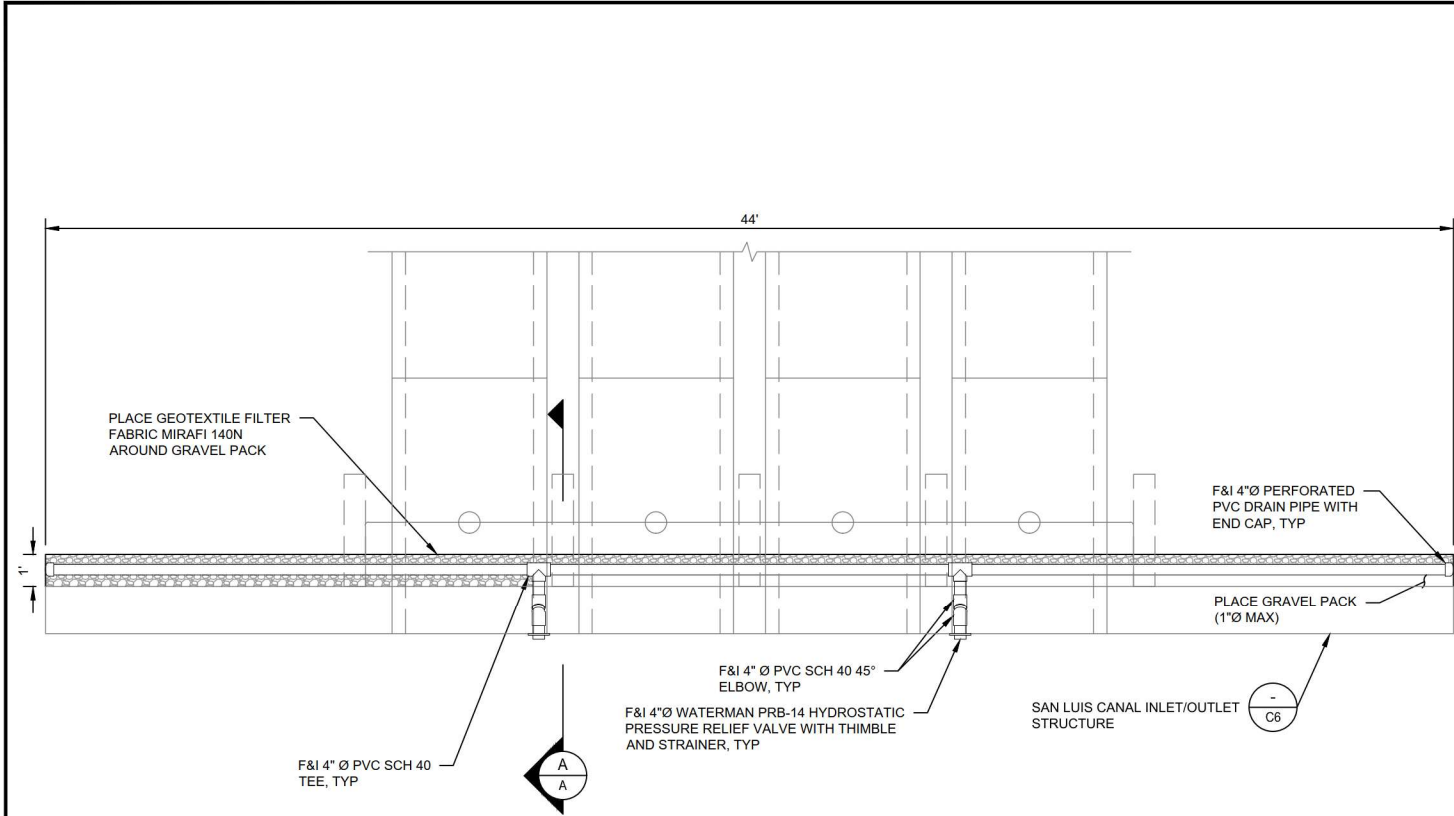
PROJECT NO: CLB 2023-019

PHASE:

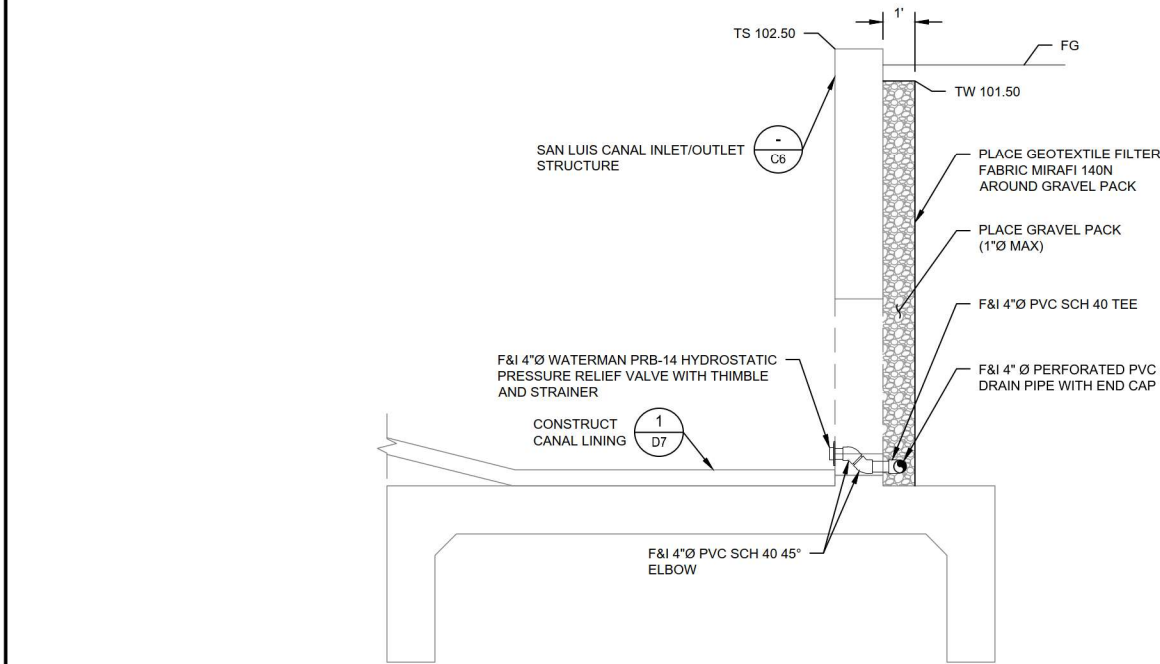
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SHEET
S1

20 OF 33



PLAN VIEW



SECTION A-A

WALL DRAIN PLAN & SECTION VIEW

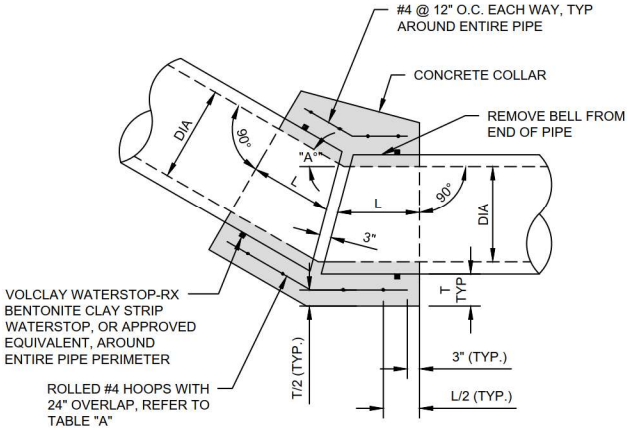
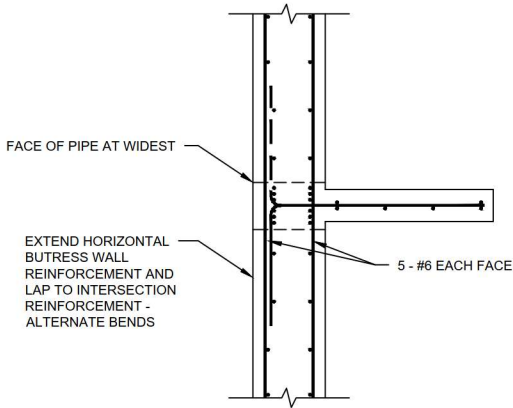


TABLE "A"			
MAX PIPE SIZE	L (MIN)	T	MIN HOOP QTY
48"	24"	10"	4

- NOTES
- ANGLE "A" SHALL BE DETERMINED IN THE FIELD AND REBAR PLACEMENT APPROVED BY OWNERS REPRESENTATIVE PRIOR TO CONCRETE PLACEMENT. ANGLE "A" SHALL NOT EXCEED 45°.
 - INSIDE JOINT TO HAVE A BRUSHED FINISH AND SHALL BE FLUSH WITH ADJOINING PIPES.
 - JOINT SHALL BE WATERTIGHT.
 - PREPARE SURFACE OF EXISTING PIPES BY WIRE BRUSHING, WATER BLASTING, OR SAND BLASTING AS DIRECTED BY OWNERS REPRESENTATIVE.
 - CONCRETE PIPE SHALL BE CLEANED AND TREATED WITH PRE-APPROVED CONCRETE BONDING AGENT PRIOR TO CONCRETE PLACEMENT.
 - DIAMETER OF ROLLED HOOPS SHALL BE INSIDE PIPE DIAMETER + (2 X WALL THICKNESS) + T.
 - FORMS USED TO POUR CONCRETE COLLAR SHALL BE REMOVED PRIOR TO BACKFILL.
 - CONCRETE SHALL BE VIBRATED AROUND PIPE JOINT DURING PLACEMENT.

2
S2

FIELD BEND



3
S2

BUTTRESS WALL REINFORCEMENT

1
S2

PROVOST & PRITCHARD
2481 W. 14TH STREET, SUITE 200
LOS ANGELES, CALIFORNIA 90025
PHONE (209) 829-1685
FAX (209) 829-1675
www.provostandpritchard.com

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KIRK KOESTER
LICENSE NO:
RCE 88513
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JOB NO: 350123011
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21 OF 33

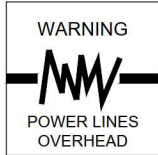
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IN MERCED COUNTY
STRUCTURAL
STRUCTURAL DETAILS

DATE SIGNED: 03/05/2025
ANTONIO BEJARRANO

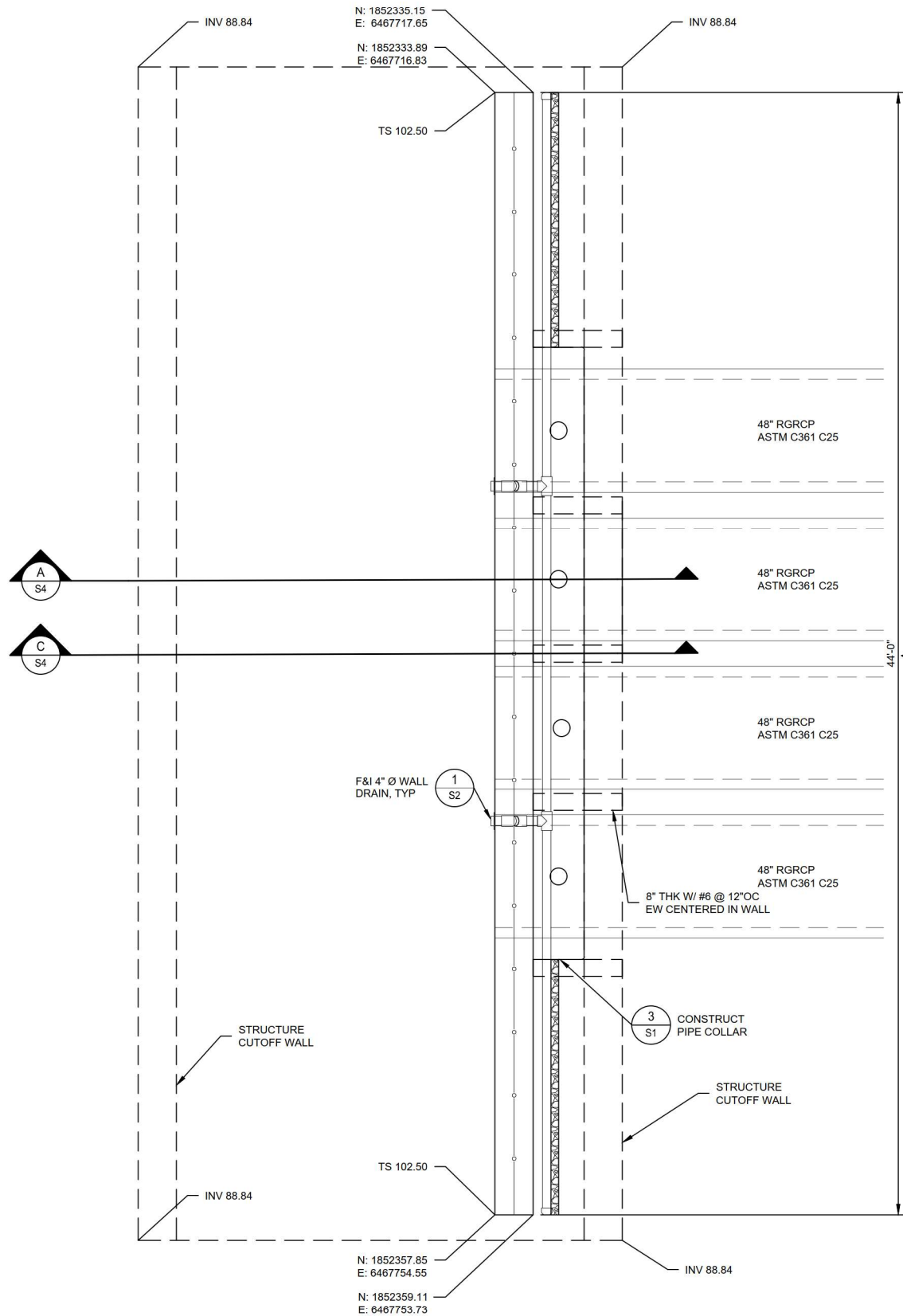
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PROF. K. KOESTER
No. 81022
CIVIL
STATE OF CALIF.
REGISTERED PROFESSIONAL ENGINEER

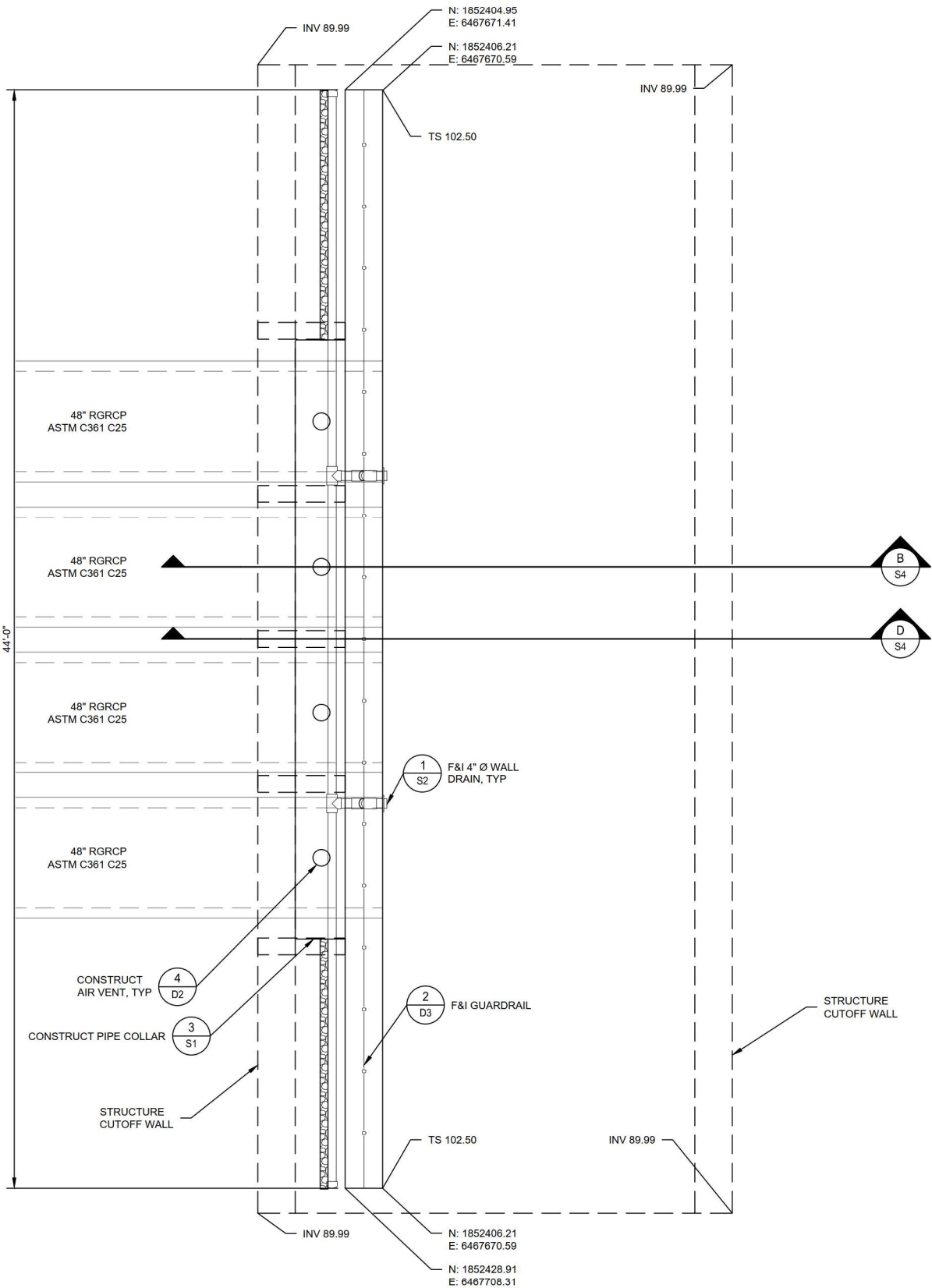
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- NOTES
- GRAVEL PACK IN BETWEEN BUTTRESS WALL AND OVER THE 4" Ø PERFORATED PVC PIPE NOT SHOWN FOR CLARITY



SAN LUIS CANAL INLET SIPHON STRUCTURE PLAN



SAN LUIS CANAL OUTLET SIPHON STRUCTURE PLAN

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03/05/2025

PROFESSIONAL ENGINEER
KIRK KOESTER
No. 81022
CIVIL
STATE OF CALIFORNIA

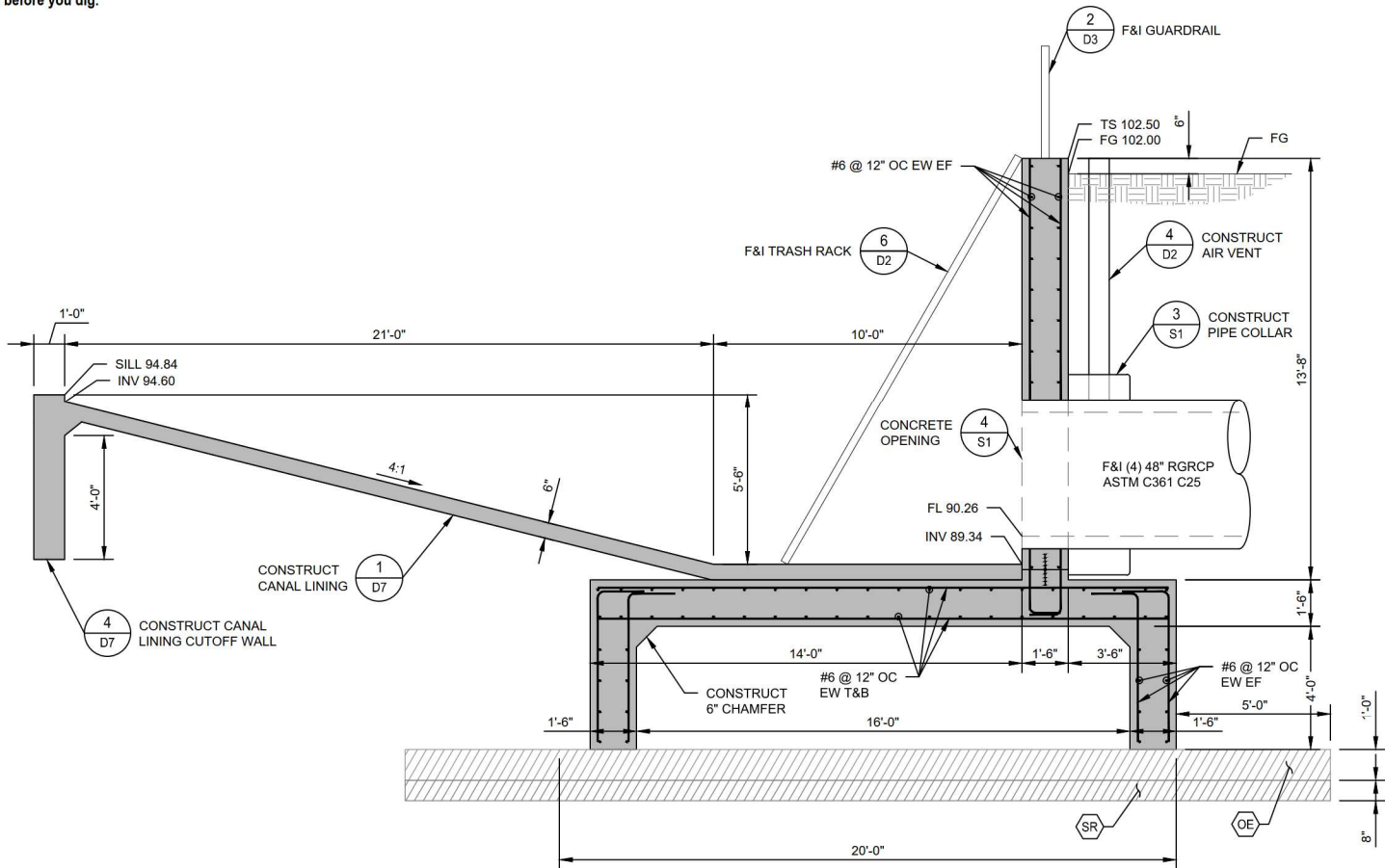
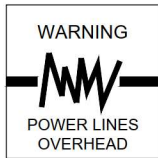
DATE SIGNED: 03/05/2025
Antonio Bajarano

FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
STRUCTURAL
SAN LUIS CANAL SIPHON STRUCTURE
PLAN

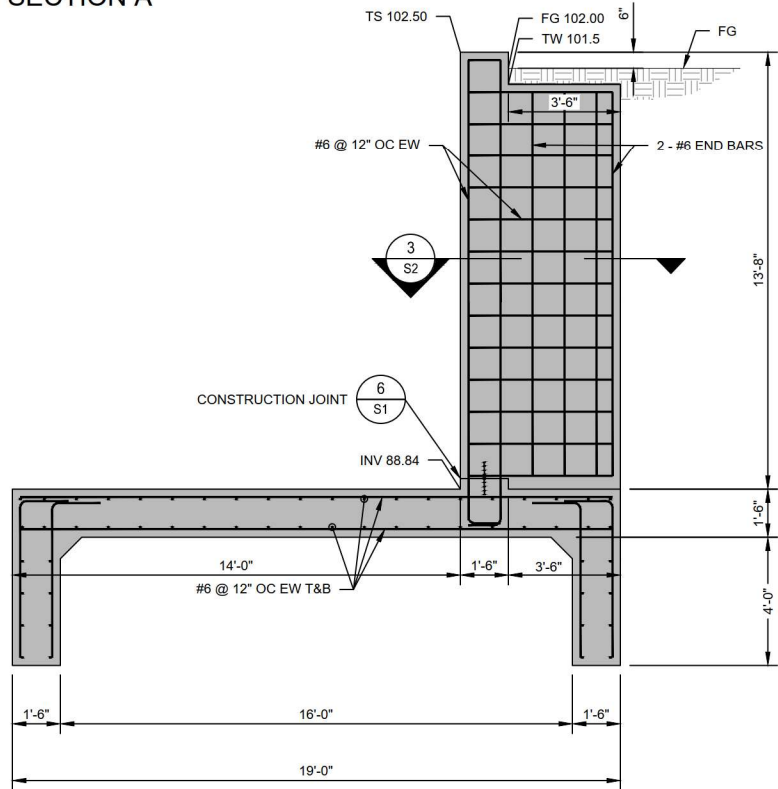
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248 N. MARKET STREET, SUITE 200
LOS BANOS, CALIFORNIA 93801
PHONE (209) 829-1885
FAX (209) 829-1675
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KIRK KOESTER
LICENSE NO:
RCE 88513

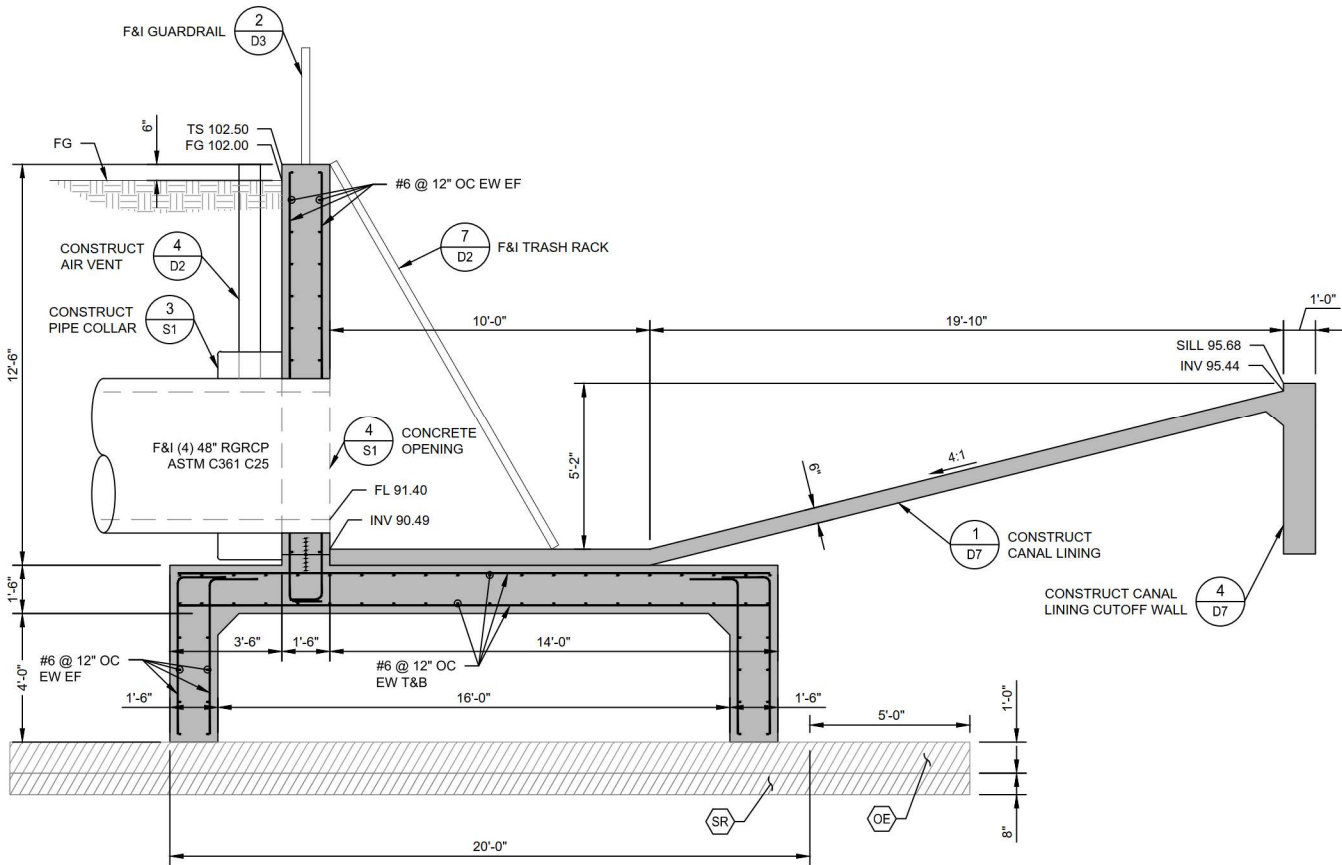
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DATE: 03/05/2025
JOB NO: 350123011
PROJECT NO: CLB 2023-019
PHASE:
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REDUCED OR ENLARGED PLANS.
SHEET
S3
22 OF 33



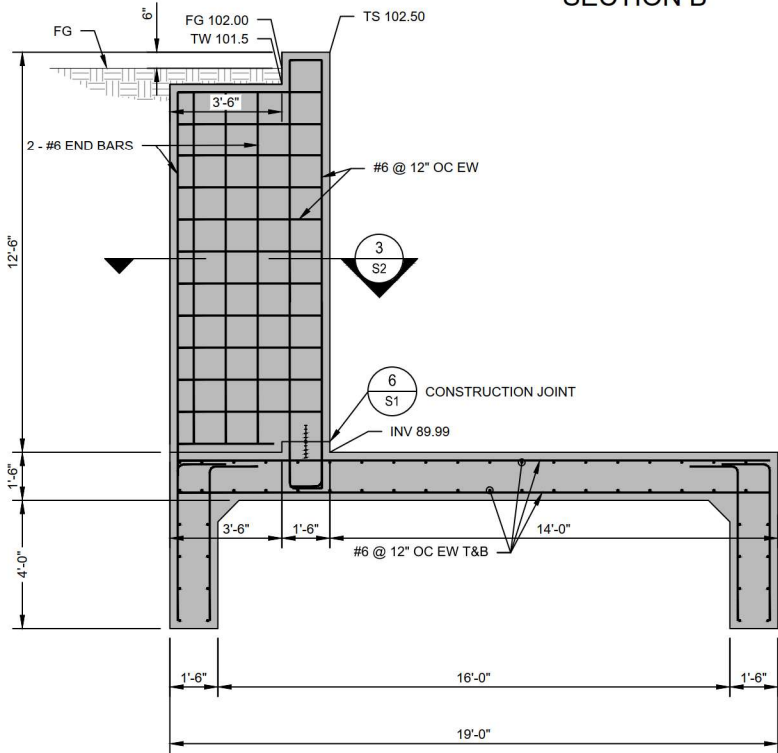
SECTION A



SECTION C



SECTION B



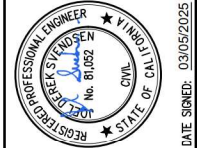
SECTION D

SAN LUIS CANAL INLET SIPHON STRUCTURE SECTIONS

SAN LUIS CANAL OUTLET SIPHON STRUCTURE SECTIONS

- CONSTRUCTION LEGEND
- OE OVEREXCAVATE 1' MIN BELOW STRUCTURE AND MOISTURE CONDITION TO AT LEAST 2% ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACT TO AT LEAST 92% RELATIVE DENSITY.
 - SR SCARIFY 8" MIN BELOW STRUCTURE AND MOISTURE CONDITION TO AT LEAST 2% ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACT TO AT LEAST 92% RELATIVE DENSITY.

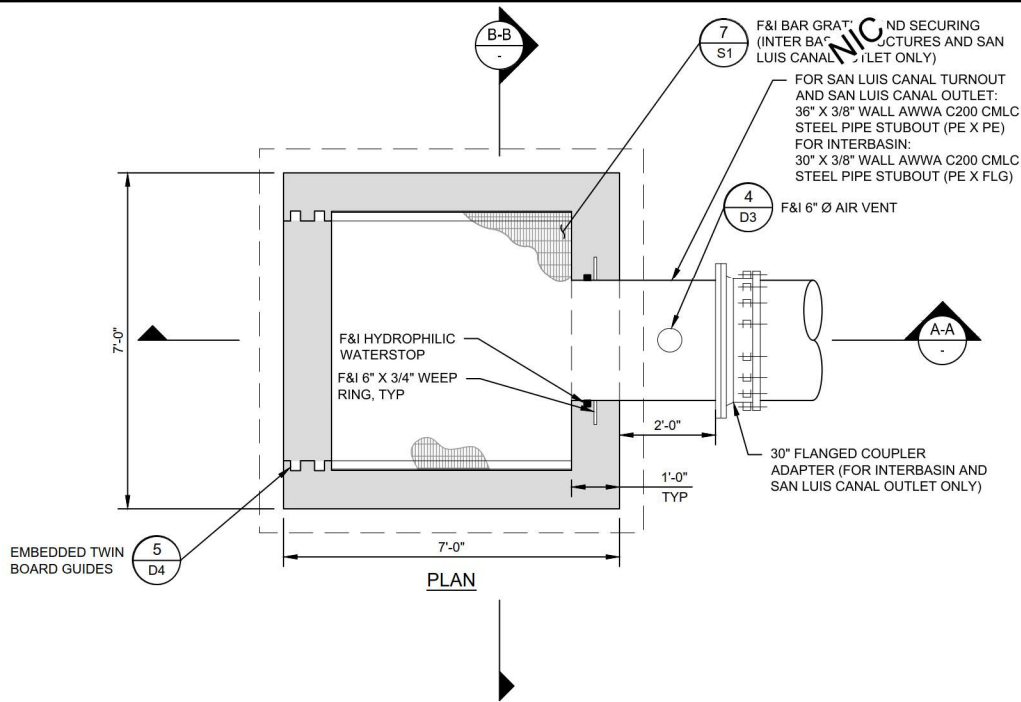
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REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
STRUCTURAL
SAN LUIS CANAL SIPHON STRUCTURE
SECTIONS

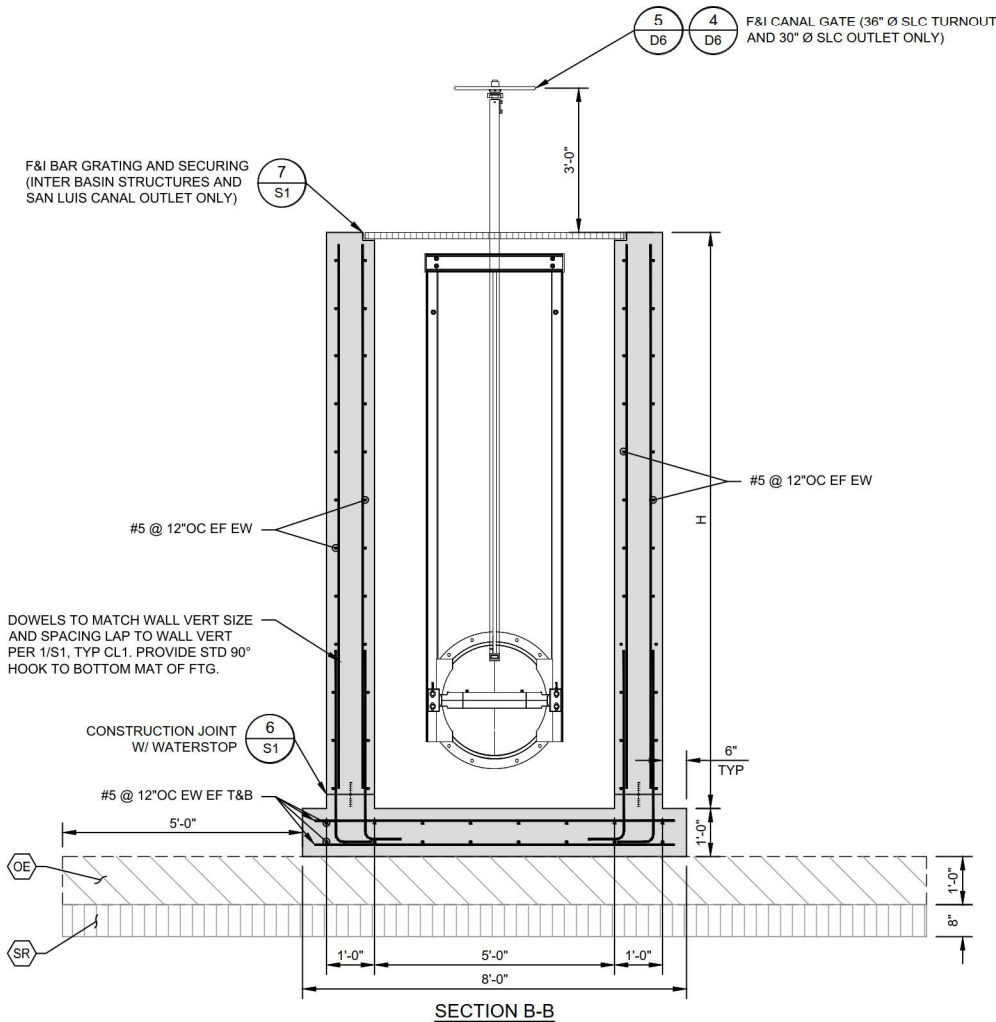
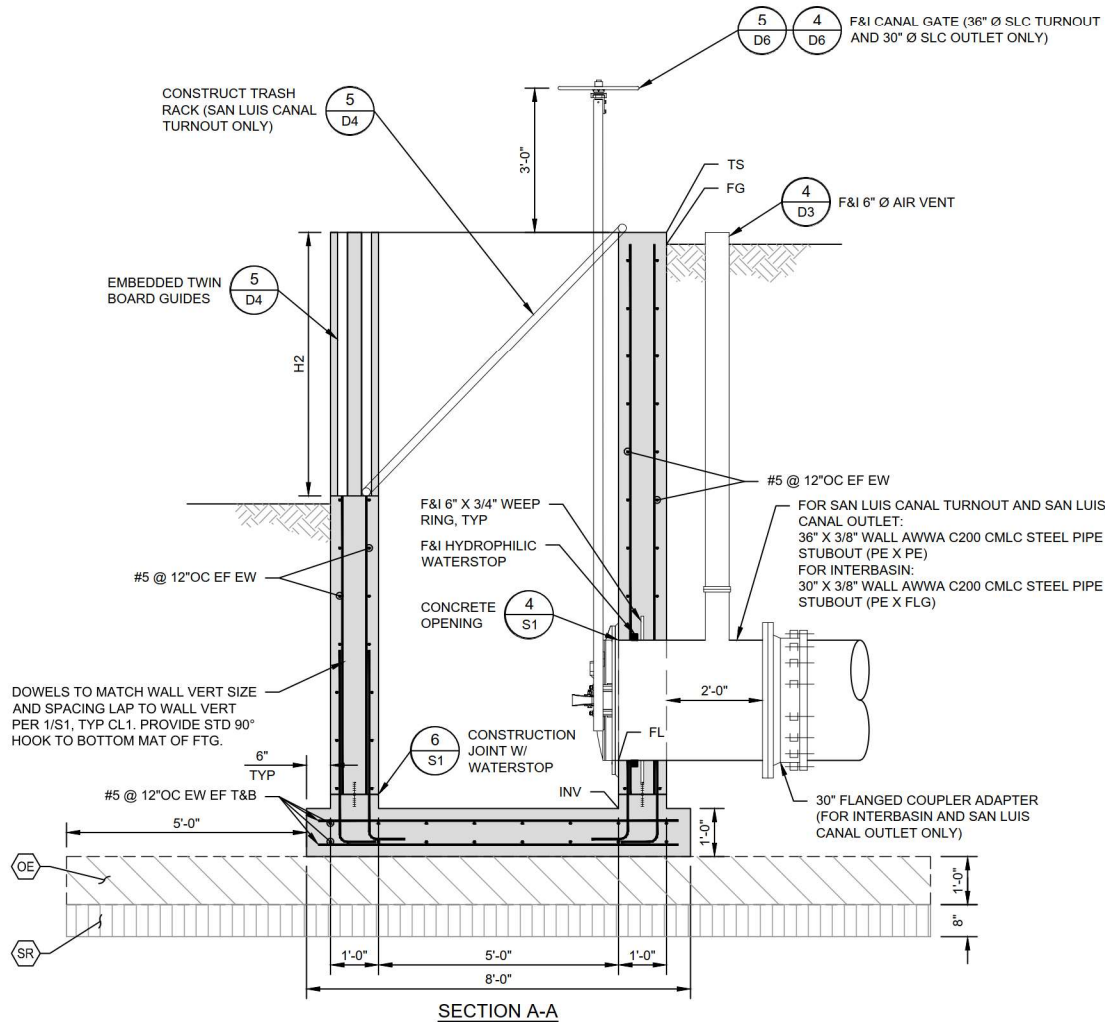
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248 N. MARKET ST., SUITE 200
LOS BANOS, CALIFORNIA 93801
PHONE (209) 829-1685
FAX (209) 829-1675
www.provostpritchard.com

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513
DRAFTED BY: PD, CAJ
CHECKED BY: KK, GMH
DATE: 03/05/2025
JOB NO: 350123011
PROJECT NO: CLB 2023-019
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SHEET
S4
23 OF 33



TURNOUT BOX DIMENSIONS						
STRUCTURE	H	H2	TS	FG	INV	FL
SLC TURNOUT	12'-1"	7'-6"	102.50	101.5±	90.42	91.42
SOUTH TO CENTER	12'-0"	6'-0"	103.32	103.00	91.32	92.45
CENTER TO NORTH	13'-6"	8'-11"	103.47	103.00	90.01	91.14
SLC OUTLET	13'-6"	7'-4"	103.67	103.00	90.21	91.21

- CONSTRUCTION LEGEND**
- OE OVEREXCAVATE 12" MIN BELOW STRUCTURE AND MOISTURE CONDITION TO BE AT LEAST 2% ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACT TO AT LEAST 90% RELATIVE DENSITY.
- SR SCARIFY 8" MIN BELOW STRUCTURE AND MOISTURE CONDITION TO BE AT LEAST 2% ABOVE OPTIMUM CONTENT AND COMPACT TO AT LEAST 90% RELATIVE DENSITY.



TURNOUT STRUCTURE

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03/05/2025

PROFESSIONAL ENGINEER
JAMES A. HANSEN
No. S3251
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED: 03/05/2025

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CITY OF LOS BANOS
IN MERCED COUNTY
STRUCTURAL

STRUCTURES PLAN & SECTIONS

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

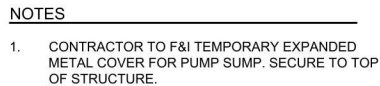
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PROJECT NO: CLB 2023-019

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24 OF 33

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CONSTRUCTION LEGEND

OE	OVEREXCAVATE 12" MIN BELOW STRUCTURE AND MOISTURE CONDITION TO BE AT LEAST 2% ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACT TO AT LEAST 90% RELATIVE DENSITY.
SR	SCARIFY 8" MIN BELOW STRUCTURE AND MOISTURE CONDITION TO BE AT LEAST 2% ABOVE OPTIMUM CONTENT AND COMPACT TO AT LEAST 90% RELATIVE DENSITY.



FEET

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100% DESIGN PLANS
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FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
STRUCTURAL

PUMP SUMP PLAN & SECTIONS

**PROVOST &
PRITCHARD**
455 W FIR AVENUE
CLOVIS, CA 93611-9166
PHONE (559) 449-2700
FAX (559) 449-2715
www.provostandpritchard.com

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY: PD, CAJ	CHECKED BY: KK, GMH
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JOB NO: 350123011

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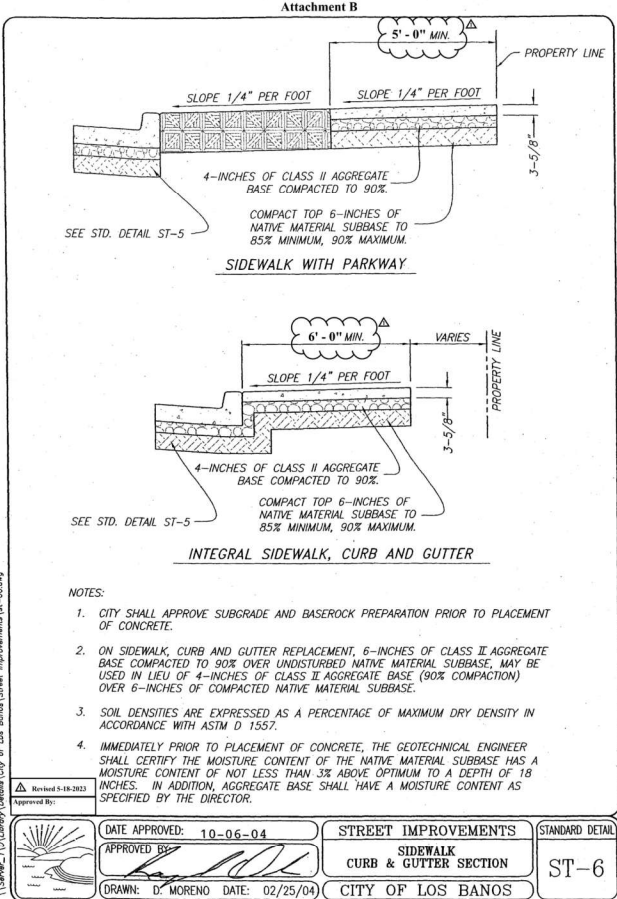
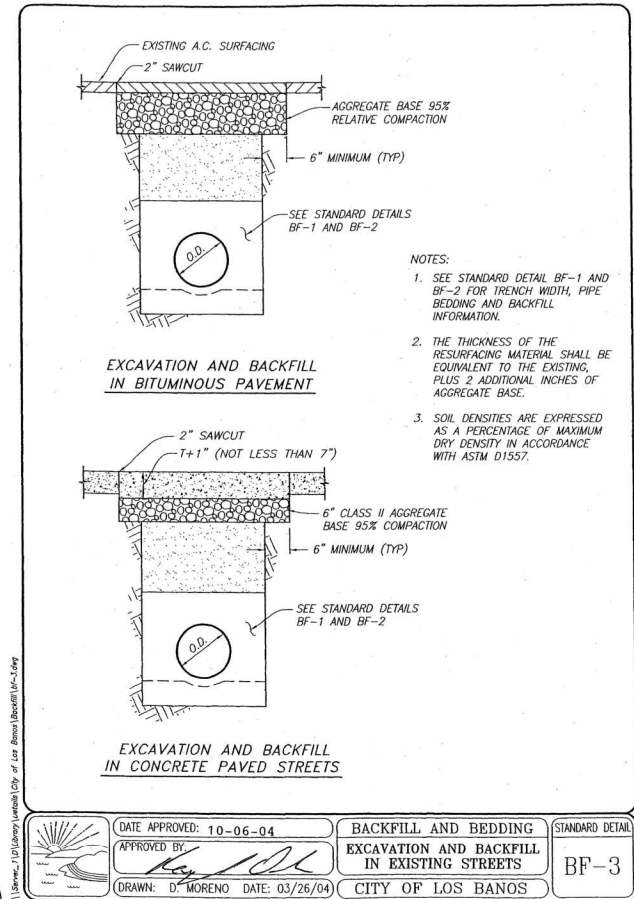
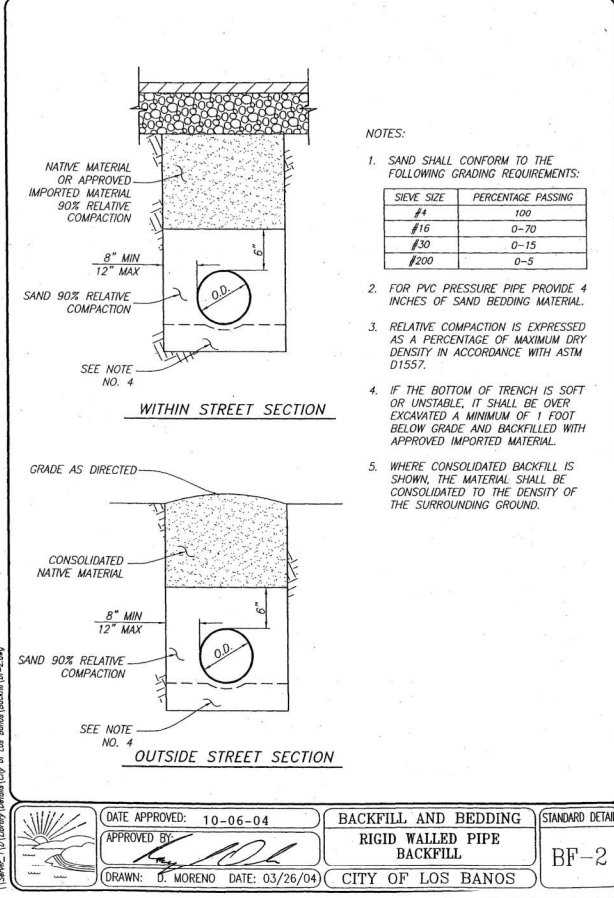
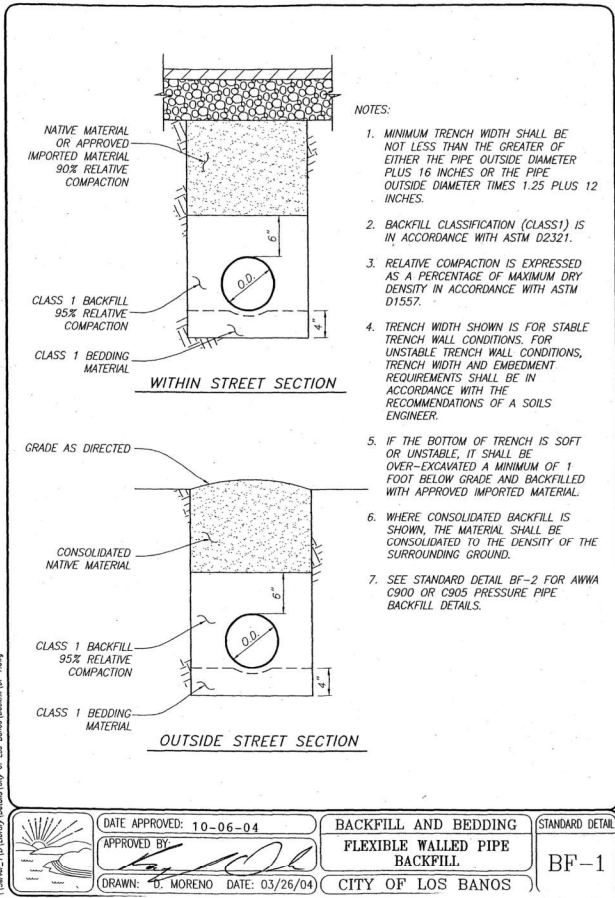
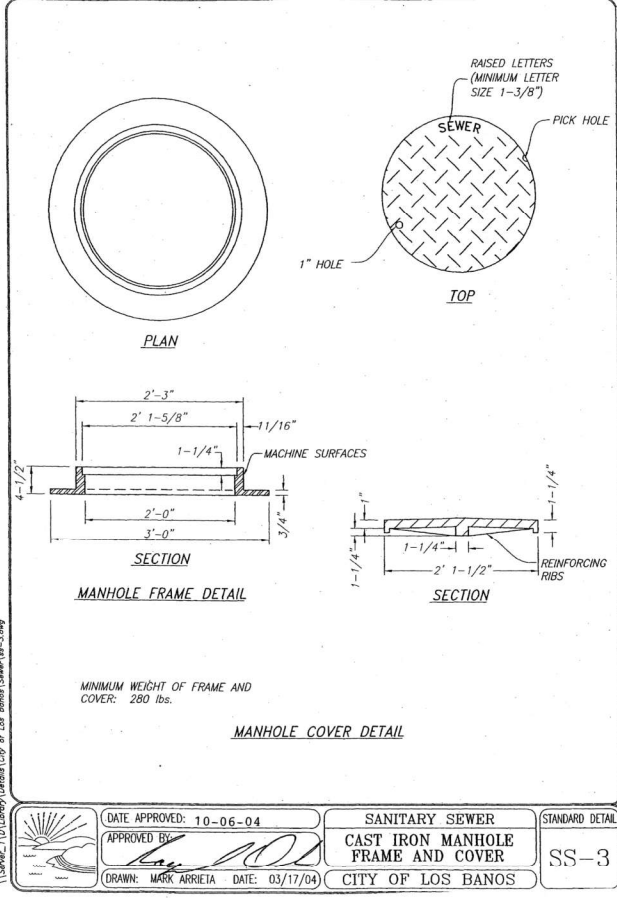
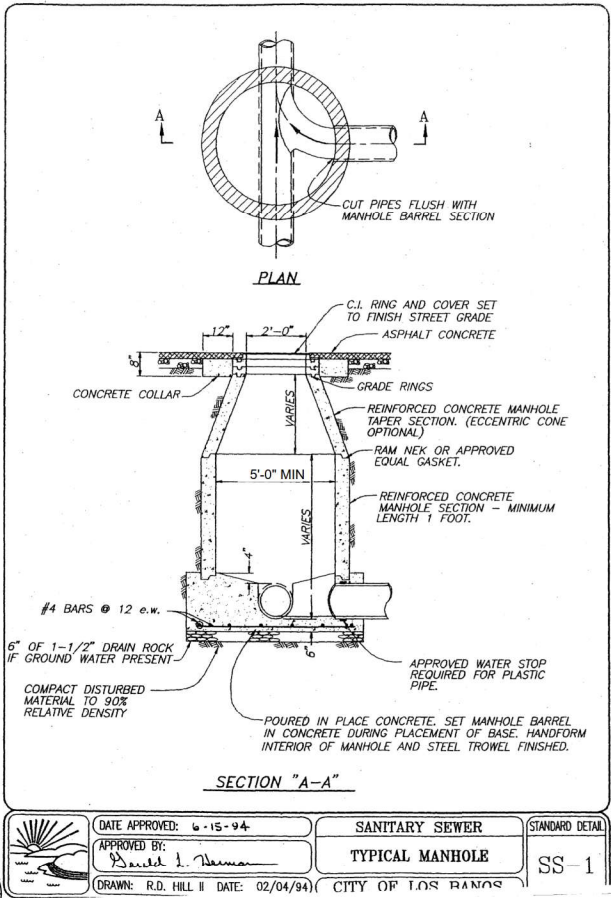
ORIGINAL SCALE SHOWN IS ONE
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25 OF 33

NOTES

1. ALL MANHOLES SHALL BE AT A MINIMUM 5'-0".



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DATE: 03/05/2025
JOB NO: 350123011
PROJECT NO: CLB 2023-019

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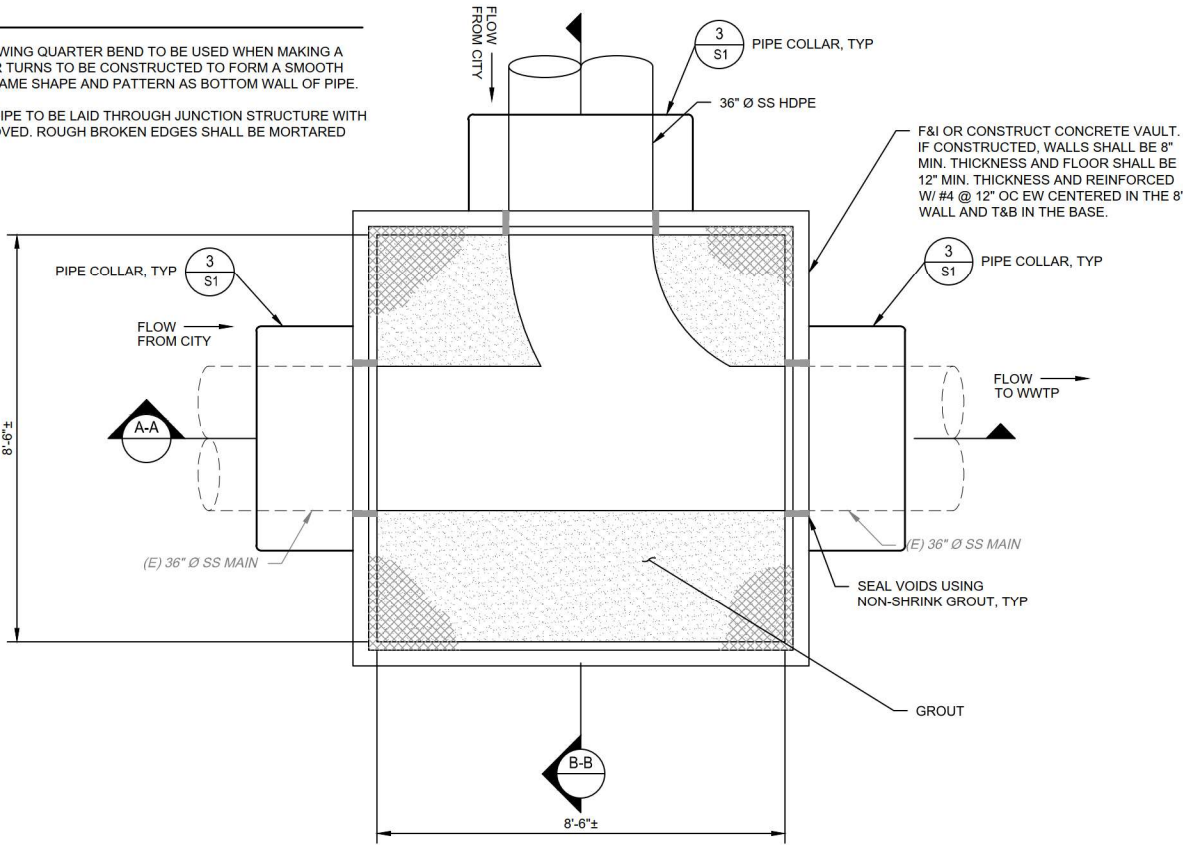
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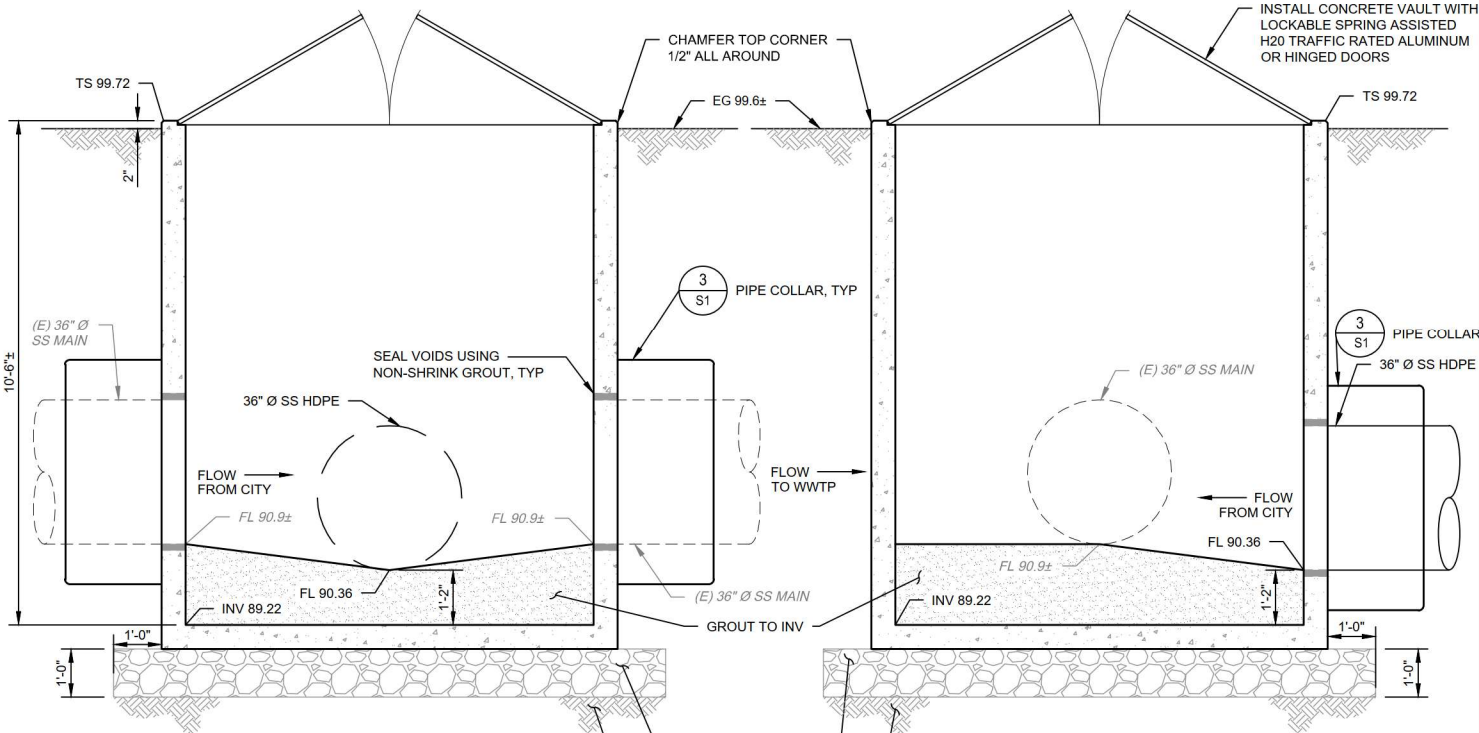
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NOTES

1. PLAN VIEW SHOWING QUARTER BEND TO BE USED WHEN MAKING A TURN. QUARTER TURNS TO BE CONSTRUCTED TO FORM A SMOOTH FLOW LINE OF SAME SHAPE AND PATTERN AS BOTTOM WALL OF PIPE.
2. ALL STRAIGHT PIPE TO BE LAID THROUGH JUNCTION STRUCTURE WITH TOP HALF REMOVED. ROUGH BROKEN EDGES SHALL BE MORTARED SMOOTH.



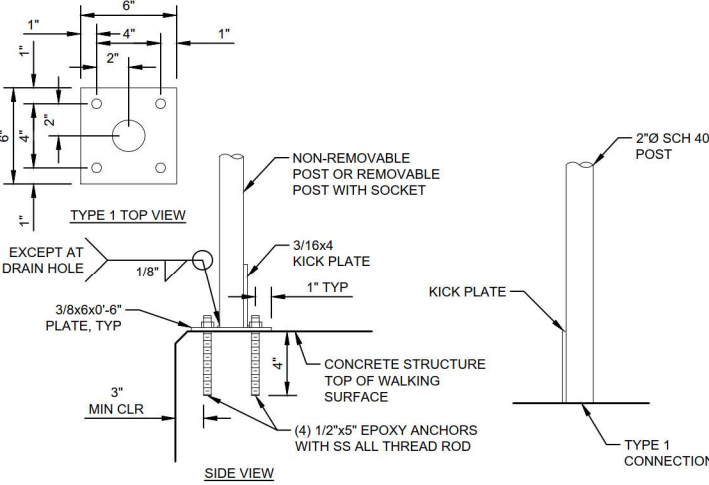
PLAN



SECTION A-A

SECTION B-B

SEWER JUNCTION BOX



TYPE 1 - TOP BOLTED CONNECTION

NON-REMOVABLE POST

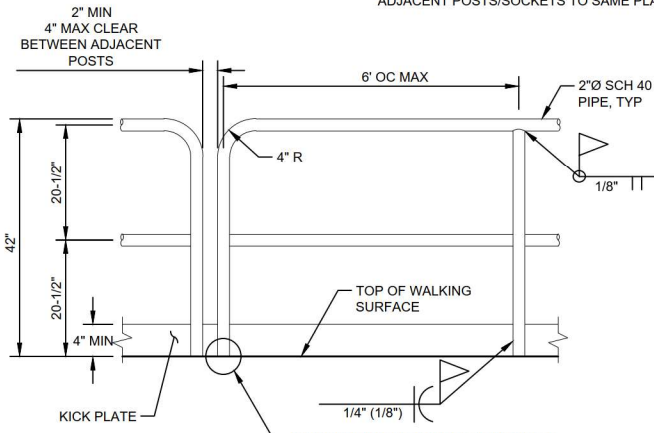
NOT TO SCALE

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GUARDRAIL DETAILS

NOTES

1. ALL RAILING SHALL BE HOT-DIPPED GALVANIZED STEEL. ALL HARDWARE SHALL BE TYPE 304 SS.
2. A LARGER PLATE MAY BE USED TO MOUNT ADJACENT POSTS/SOCKETS TO SAME PLATE



TYPICAL GUARDRAILING DETAIL

PLACEMENT OF SPACERS ON CARRIER PIPE

1. GENERAL - ONE SPACER SHALL BE PLACED NOT MORE THAN 2' FROM EACH END OF CASING. SUBSEQUENT SPACERS SHALL BE PLACED AT 6' INTERVALS WITHIN THE CASING, OR IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS.
2. FOR ALL CARRIER PIPE, ONE SPACER SHALL BE PLACED ON THE SPIGOT END OF EACH SEGMENT AT THE LINE MARKING THE LIMIT OF INSERTION INTO THE BELL. WHEN THE JOINT IS COMPLETE, THE SPACER SHALL BE IN CONTACT WITH THE BELL OF THE JOINT SO THAT THE SPACER PUSHES THE JOINT AND RELIEVES COMPRESSION WITHIN THE JOINT. SUBSEQUENT SPACERS SHALL BE PLACED AT 6'-10" INTERVALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CASING PIPE

1. ANNUAL SPACE VOID SPACE BETWEEN CARRIER PIPE AND CASING SHALL BE FILLED WITH 2 SAND SACK SLURRY AND BE SEALED (PLUGGED) AFTER INSTALLATION OF CARRIER PIPE.

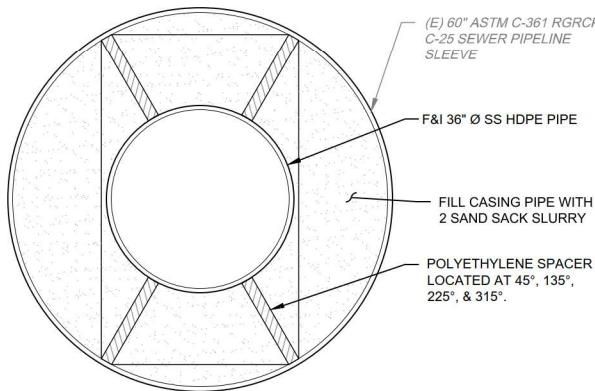
CASING END SEALS

1. CASING END SEALS SHALL BE SEALED BY:

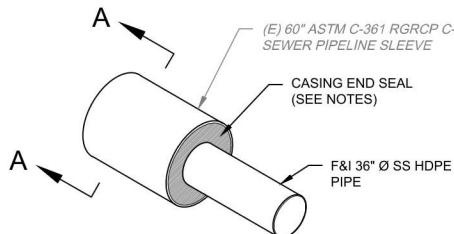
RUBBER SEALS AND STEEL BANDS
WRAP AROUND, NEOPRENE RUBBER, MIN. THICKNESS: 1/8";
TEMPERATURE RATING: -20°F TO 170°F.
STAINLESS STEEL BANDING; MIN. 2 BANDS PER SEAL; T304 STAINLESS STEEL WITH 100% NON-MAGNETIC WORM GEAR, 1/2" MIN. WIDTH.

CARRIER PIPE

1. CARRIER PIPE SHALL BE CENTERED WITHIN CASING BY USING POLYETHYLENE SPACER.



SECTION A-A

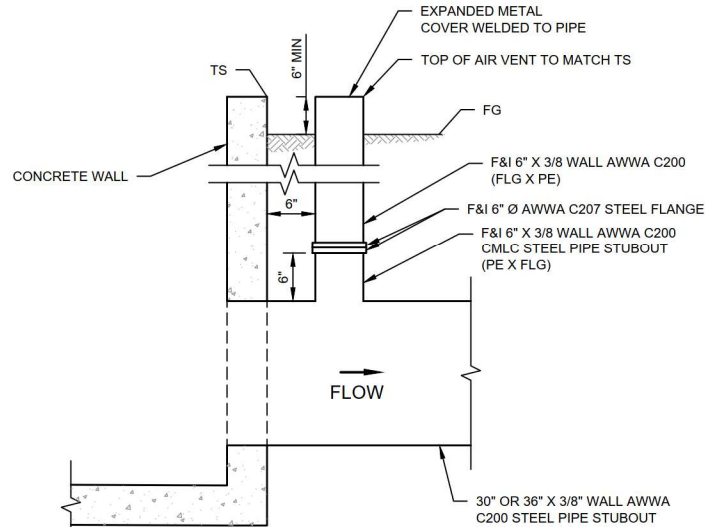


CASING END SEAL

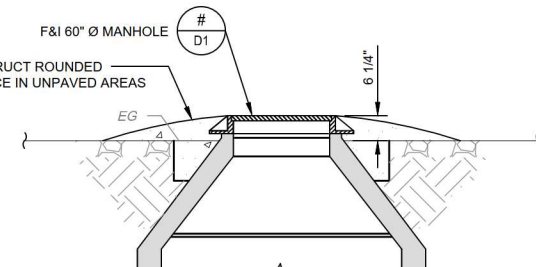
SANTA FE CANAL PIPE SUPPORT

NOT TO SCALE

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D3



6" Ø AIR VENT



MANHOLE LIP

FEET
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5
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BY _____
REVISION _____

FINAL KILOMETER SEWER TRUNK LINE
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CITY OF LOS BANOS
IN MERCED COUNTY
DETAILS

DETAILS

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PROJECT NO: CLB 2023-019

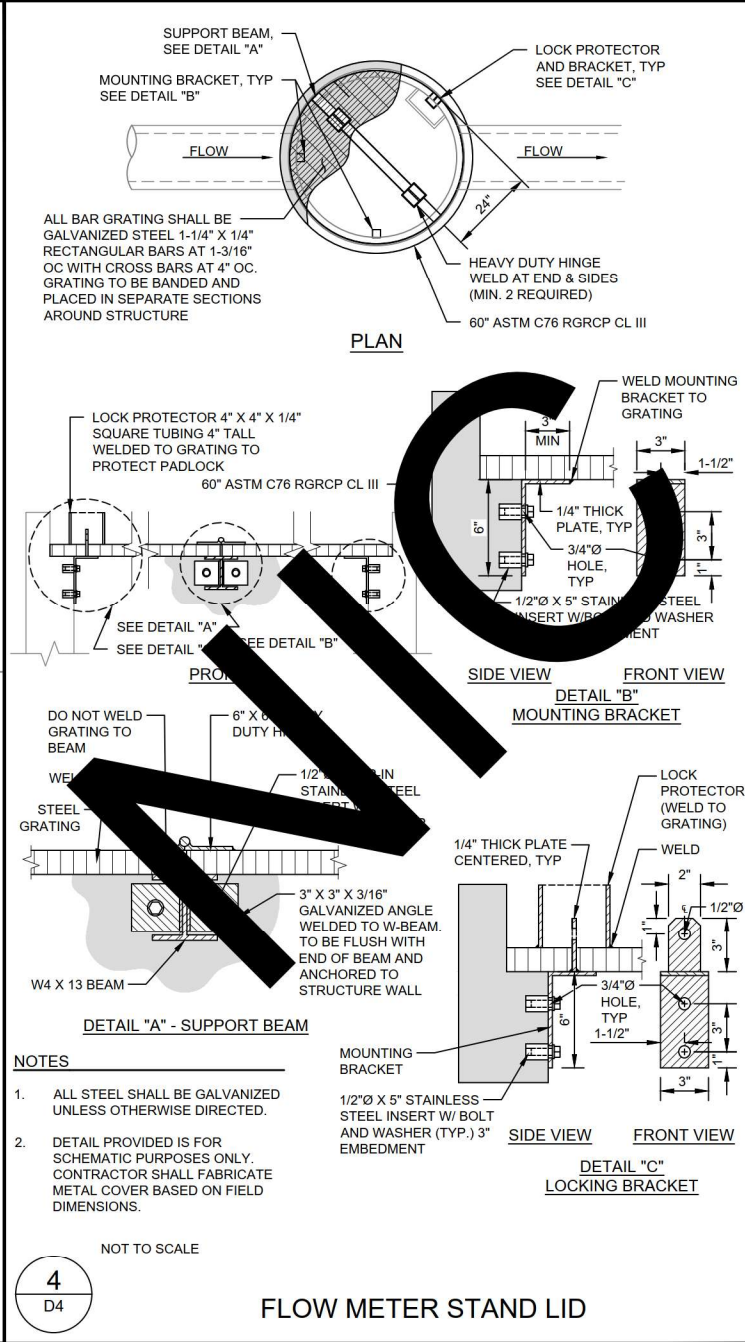
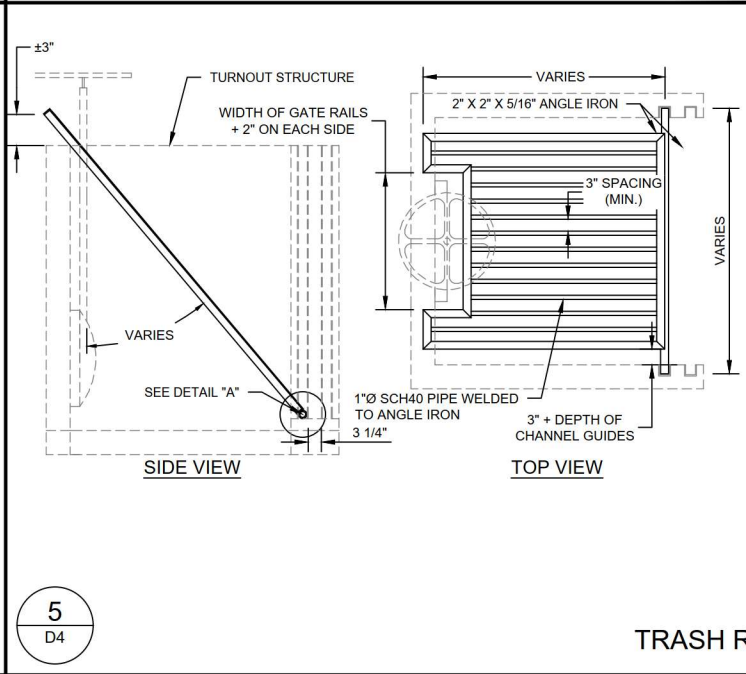
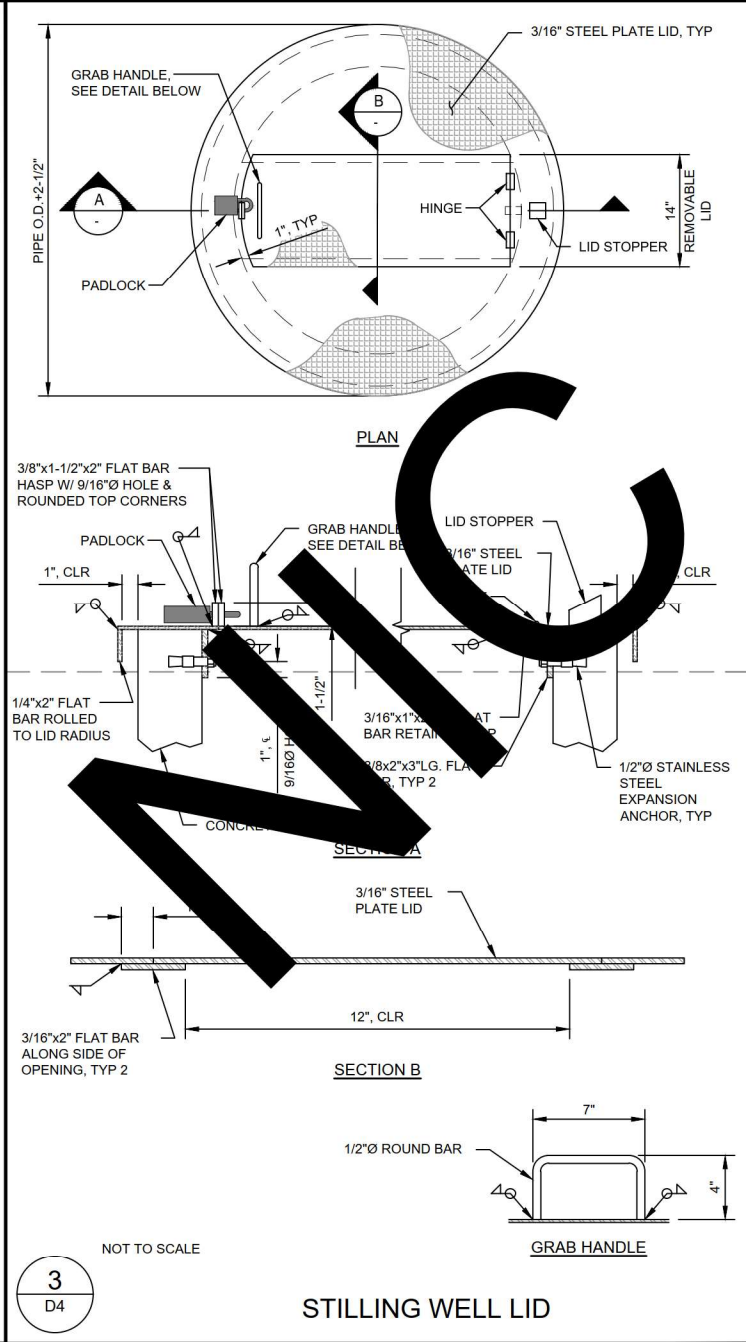
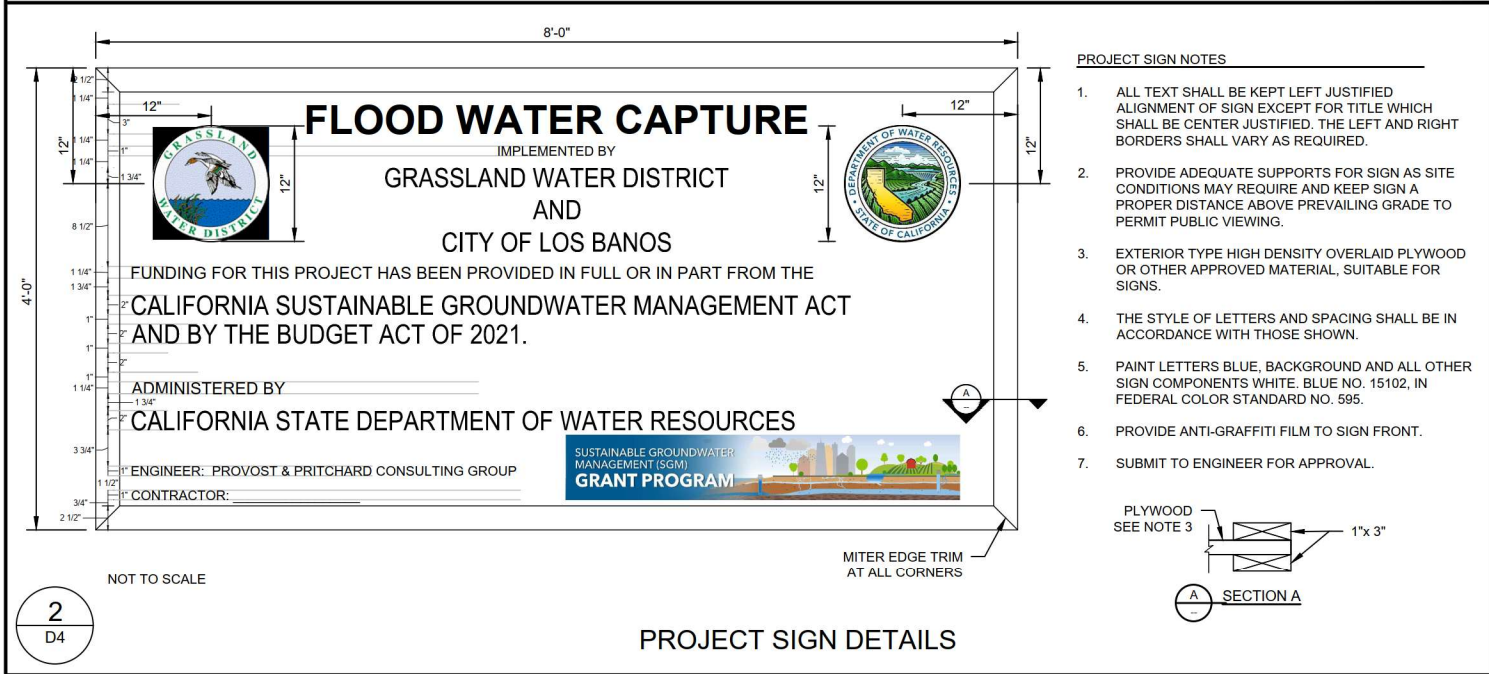
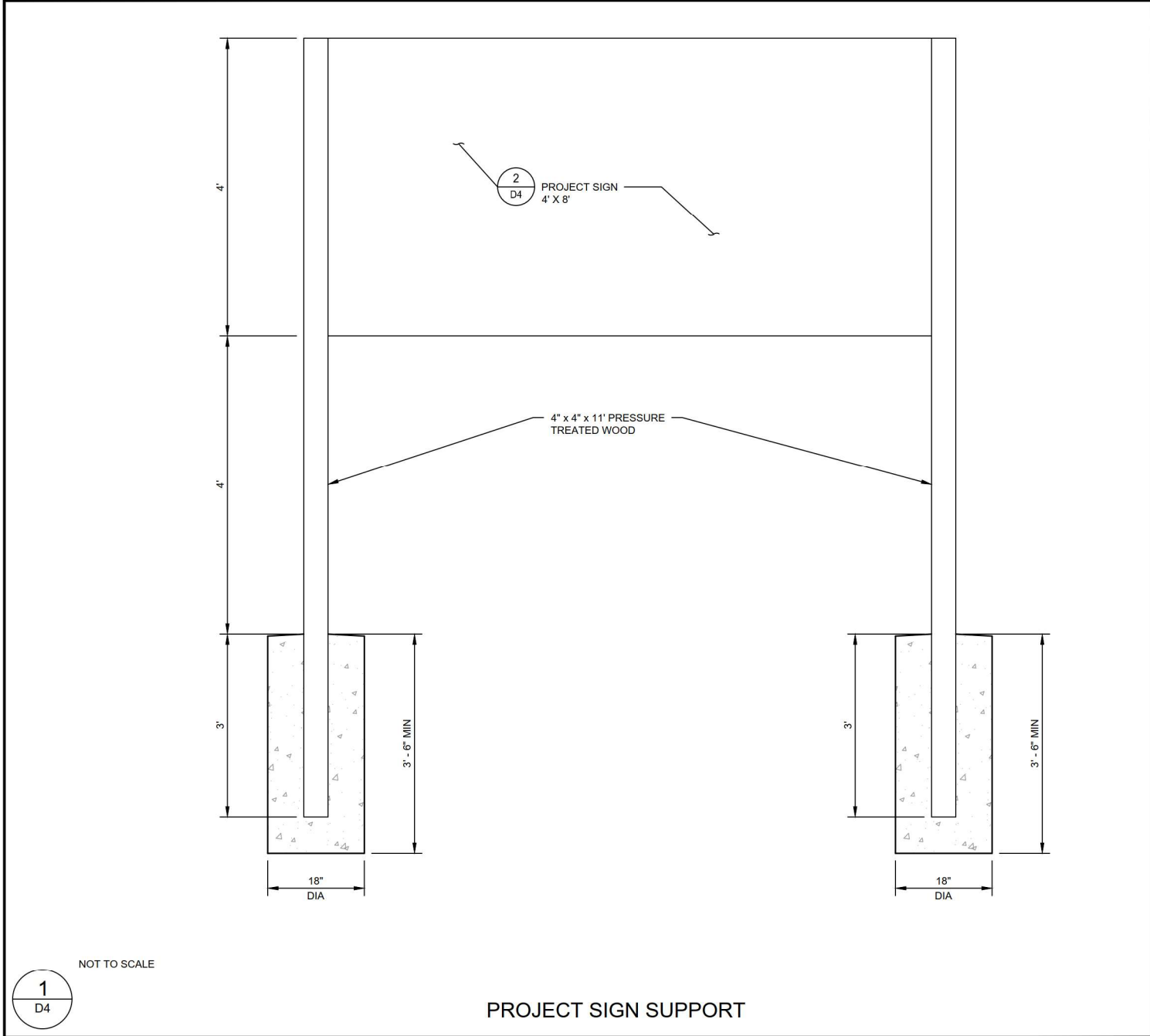
PHASE:

ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET
D3
28 OF 33

PROVOST & PRITCHARD
248 N. MARKET STREET, SUITE 200
LOS BANOS, CALIFORNIA 93635
PHONE (209) 829-1685
FAX (209) 829-1675
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100% DESIGN PLANS
FOR BIDDING PURPOSES ONLY
03/05/2025

FINAL KILOMETER SEWER TRUNK LINE
REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
DETAILS

DETAILS

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY:
PD, CAJ
CHECKED BY:
KK, GMH

DATE: 03/05/2025

JOB NO: 350123011

PROJECT NO: CLB 2023-019

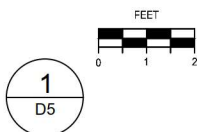
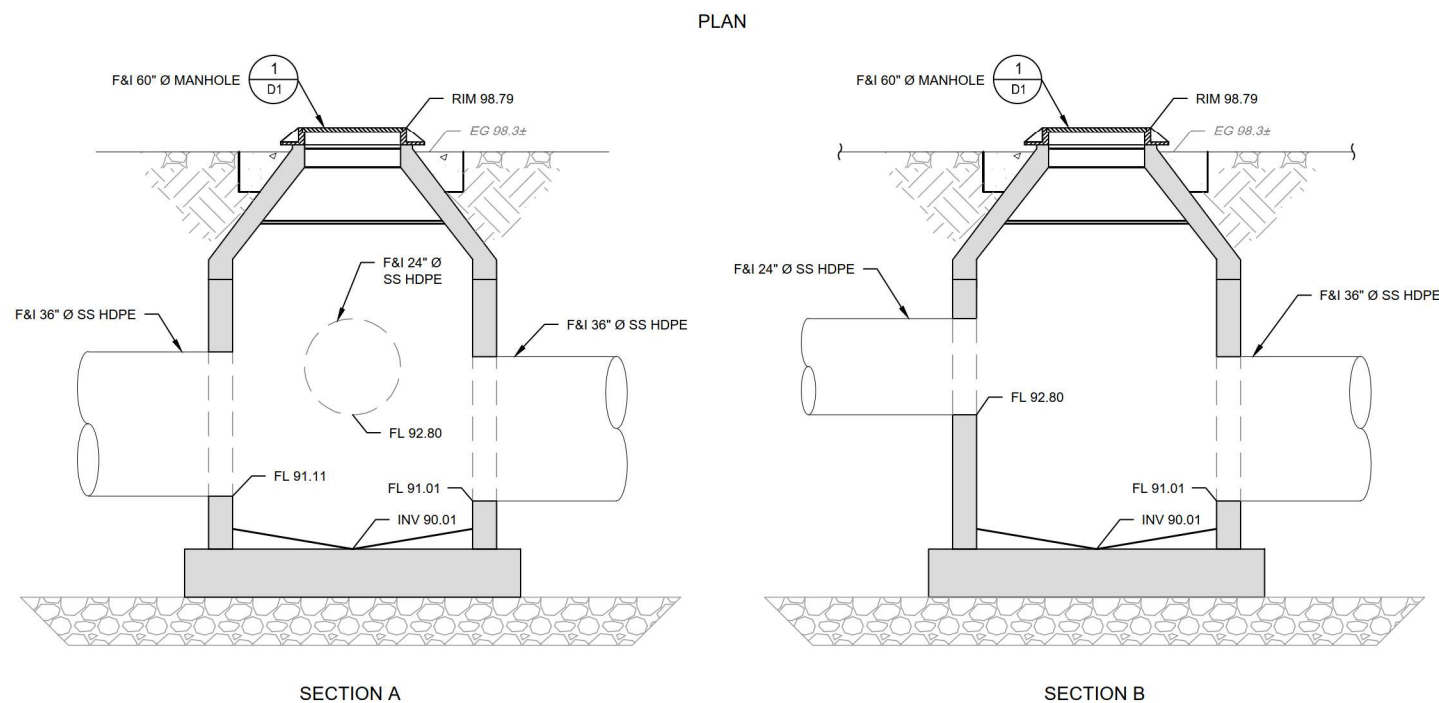
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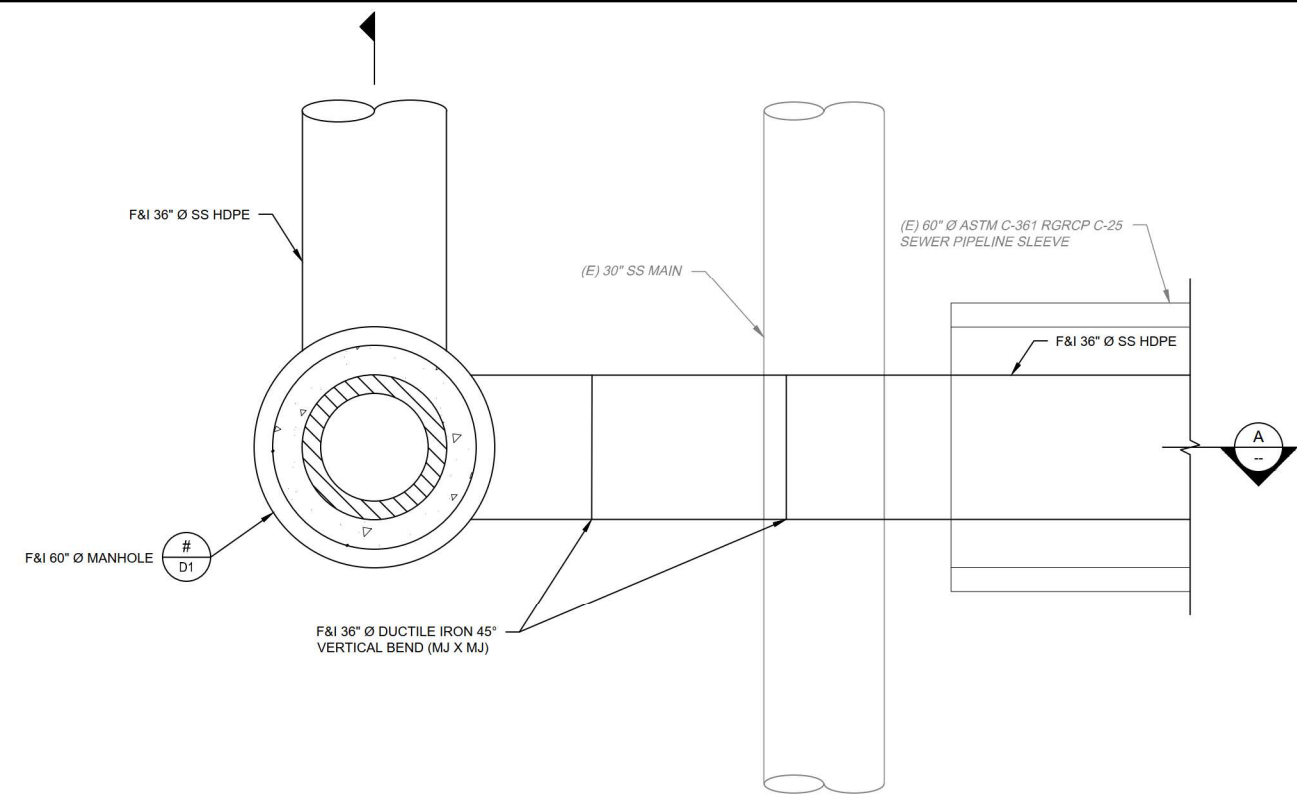
SHEET
D4

29 OF 33

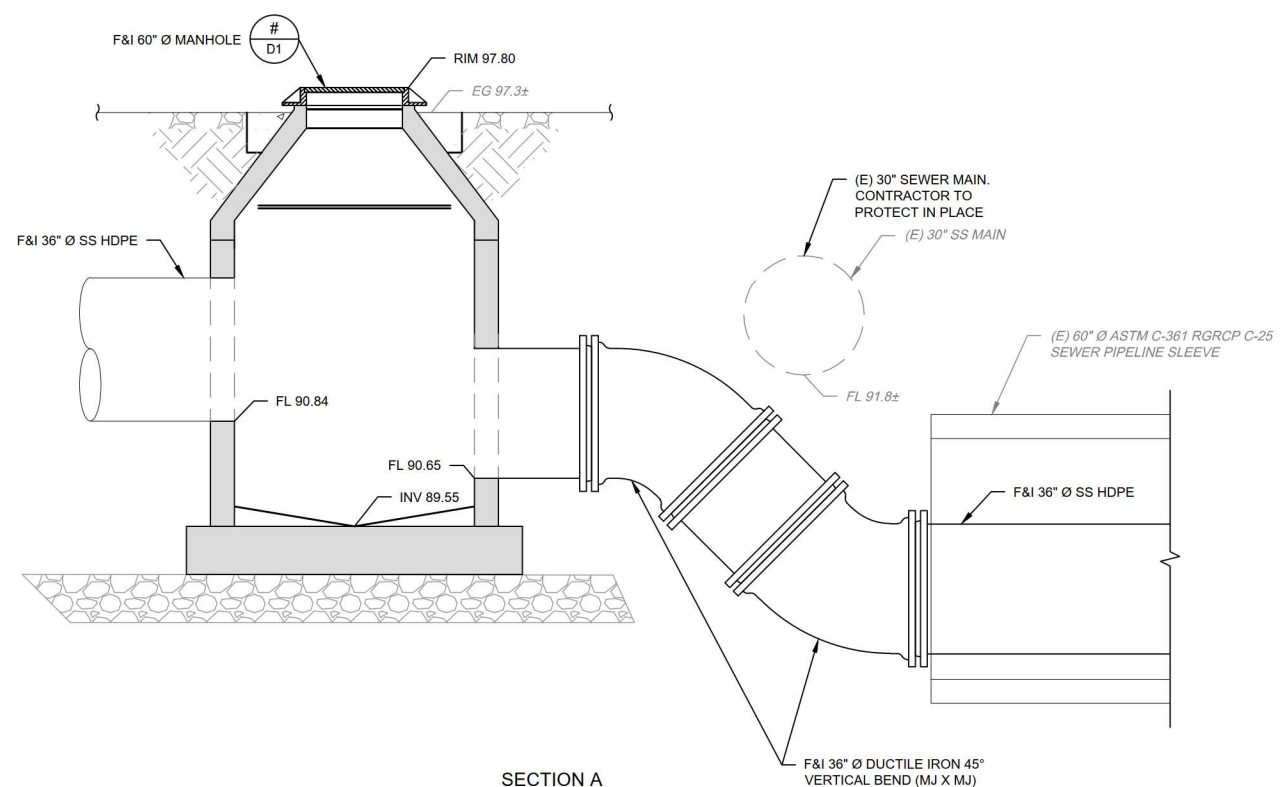
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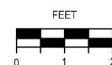
STA 47+58 MANHOLE CONNECTION TO EXISTING



PLAN



SECTION A



STA 49+71 MANHOLE CONNECTION TO EXISTING

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DATE SIGNED: 03/05/2025

REPLACEMENT PROJECT
CITY OF LOS BANOS
IN MERCED COUNTY
DETAILS

DETAILS

**PROVOST &
PRITCHARD**
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www.provostandpritchard.com

DESIGN ENGINEER:
KIRK KOESTER
LICENSE NO:
RCE 88513

DRAFTED BY: PD, CAJ	CHECKED BY: KK, GMH
------------------------	------------------------

DATE: 03/05/2025

JOB NO: 350123011

PROJECT NO: CLB 2023-01

PHASE:

0 1"

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INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

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30 OF 33

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