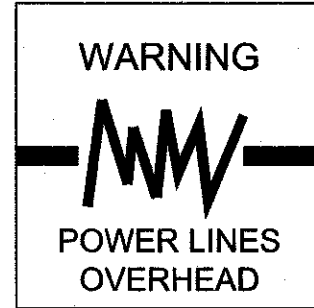


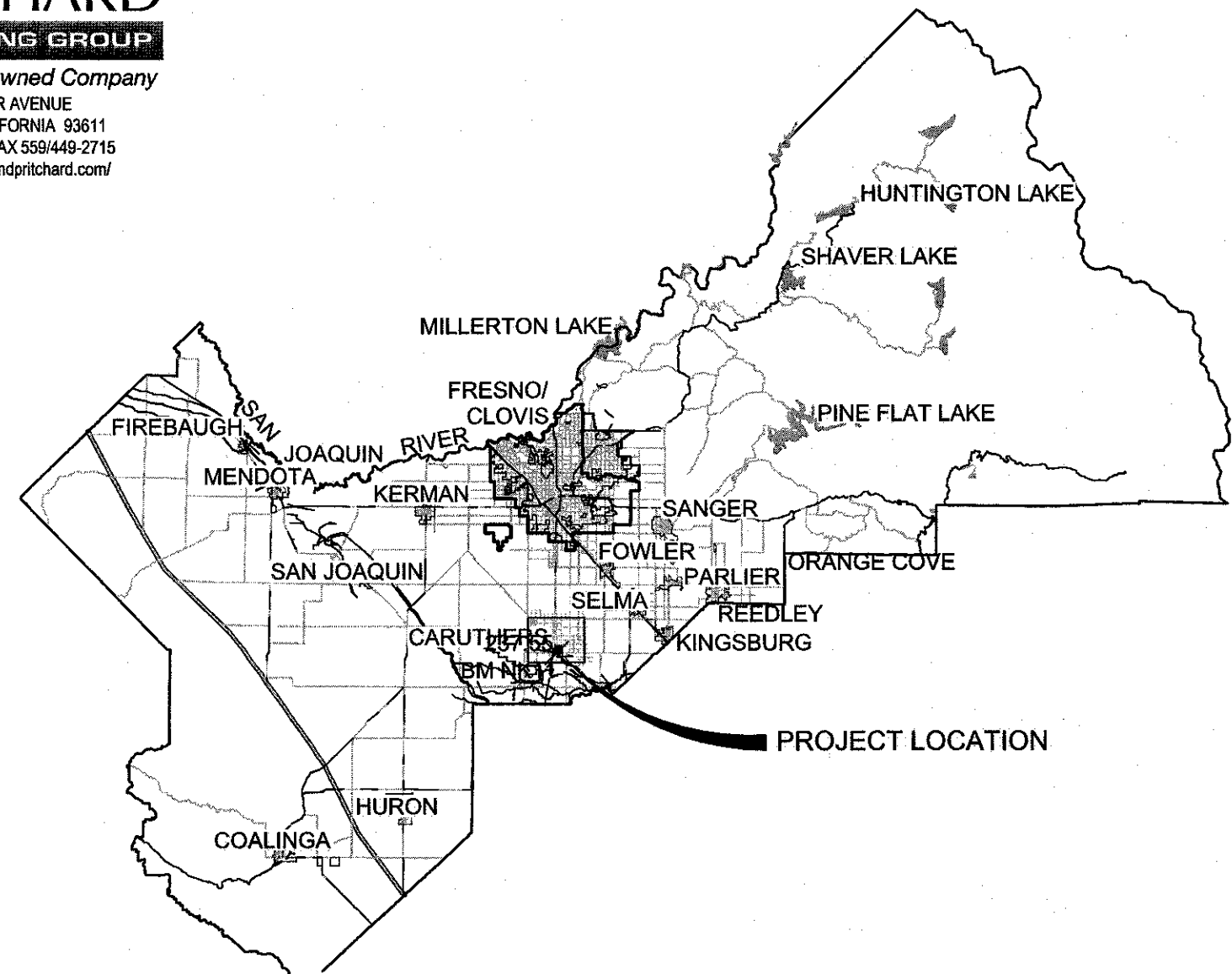


Know what's Below. Call before you dig.



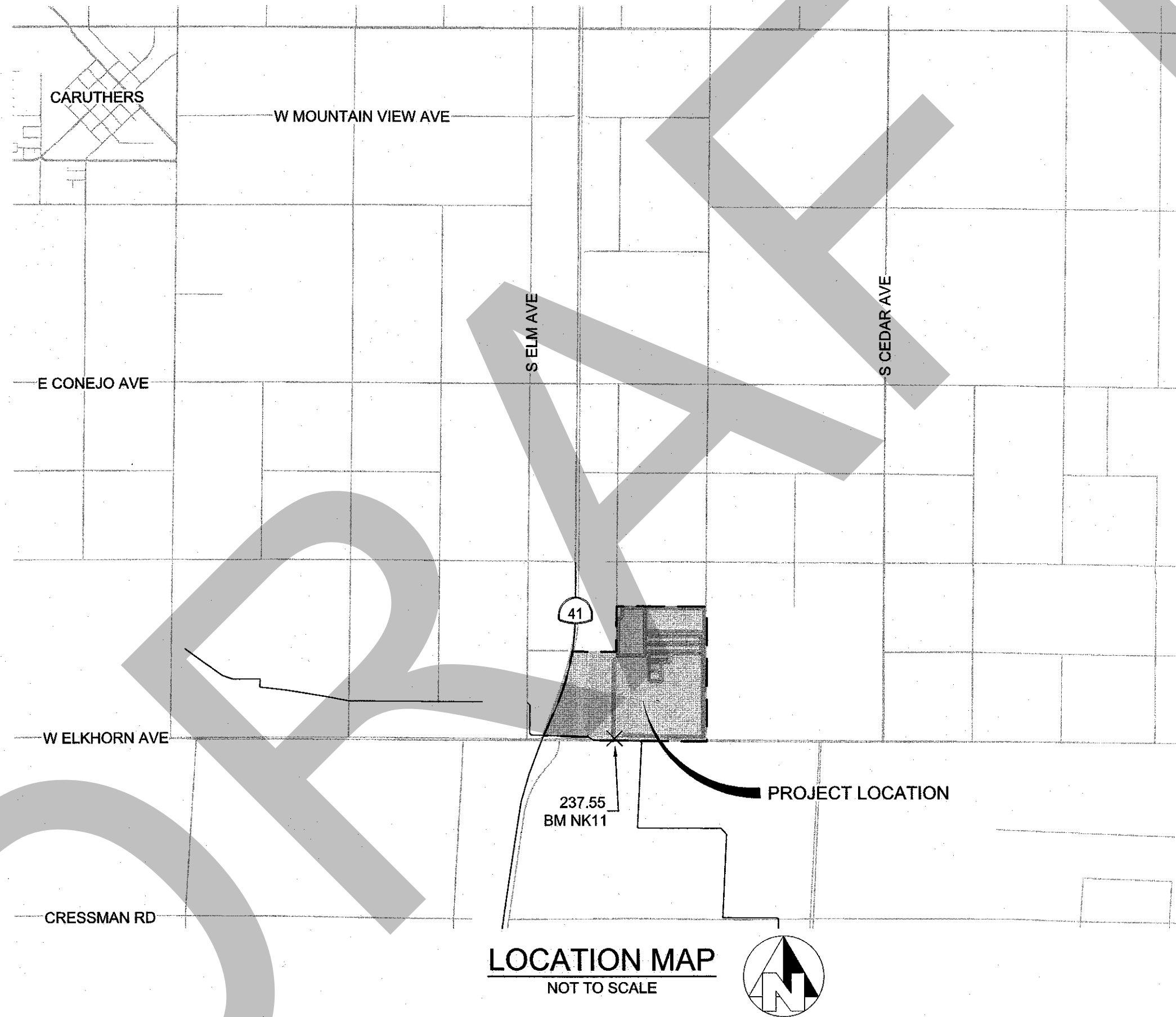
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VICINITY MAP NOT TO SCALE

PLANS FOR CONSTRUCTION OF THE
COUNTY OF FRESNO
ELKHORN RECHARGE FACILITY
CARUTHERS, CA



LOCATION 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.

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.

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.

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.

Table with 5 columns: DIVISION, DESIGN, CONSTRUCTION, RMO, WATER RESC. Includes signature and date 9/05/24.



TOPOGRAPHY NOTE

TOPOGRAPHY SHOWN WAS COLLECTED BY PROVOST & PRITCHARD CONSULTING GROUP DURING A FIELD SURVEY CONDUCTED IN JULY OF 2023.

BOUNDARY NOTE

THE BOUNDARY/EASEMENT INFORMATION SHOWN ON THESE PLANS IS BASED UPON DATA RECEIVED FROM THE COUNTY OF FRESNO AND THEIR SURVEY DEPARTMENT.

BENCHMARKS

PROJECT BENCHMARK
BM NK11
ELEVATION = 237.55'
N: 2062213.9654, E: 6331705.2693
A FOUND CHISELED SQUARE IN THE TOP OF FOOTING OF A RETAINING WALL, WEST SIDE OF ENTRANCE TO ELKHORN CORRECTIONAL FACILITY

DEPARTMENT OF PUBLIC WORKS AND PLANNING



SHEET INDEX table listing sheet numbers, descriptions, and categories (GENERAL, CIVIL, STRUCTURAL).

Table listing project officials: NATHAN MAGSIG (CHAIRMAN), ERNEST BUDDY MENDES (VICE CHAIRMAN), SAL QUINTERO (4th DISTRICT), BRIAN PACHECO (3rd DISTRICT), STEVE BRANDAU (1st DISTRICT), and an unlisted official (2nd DISTRICT).

PAUL NERLAND
COUNTY ADMINISTRATIVE OFFICER
APPROVED
STEVEN E. WHITE, DIRECTOR
DEPARTMENT OF PUBLIC WORKS AND PLANNING

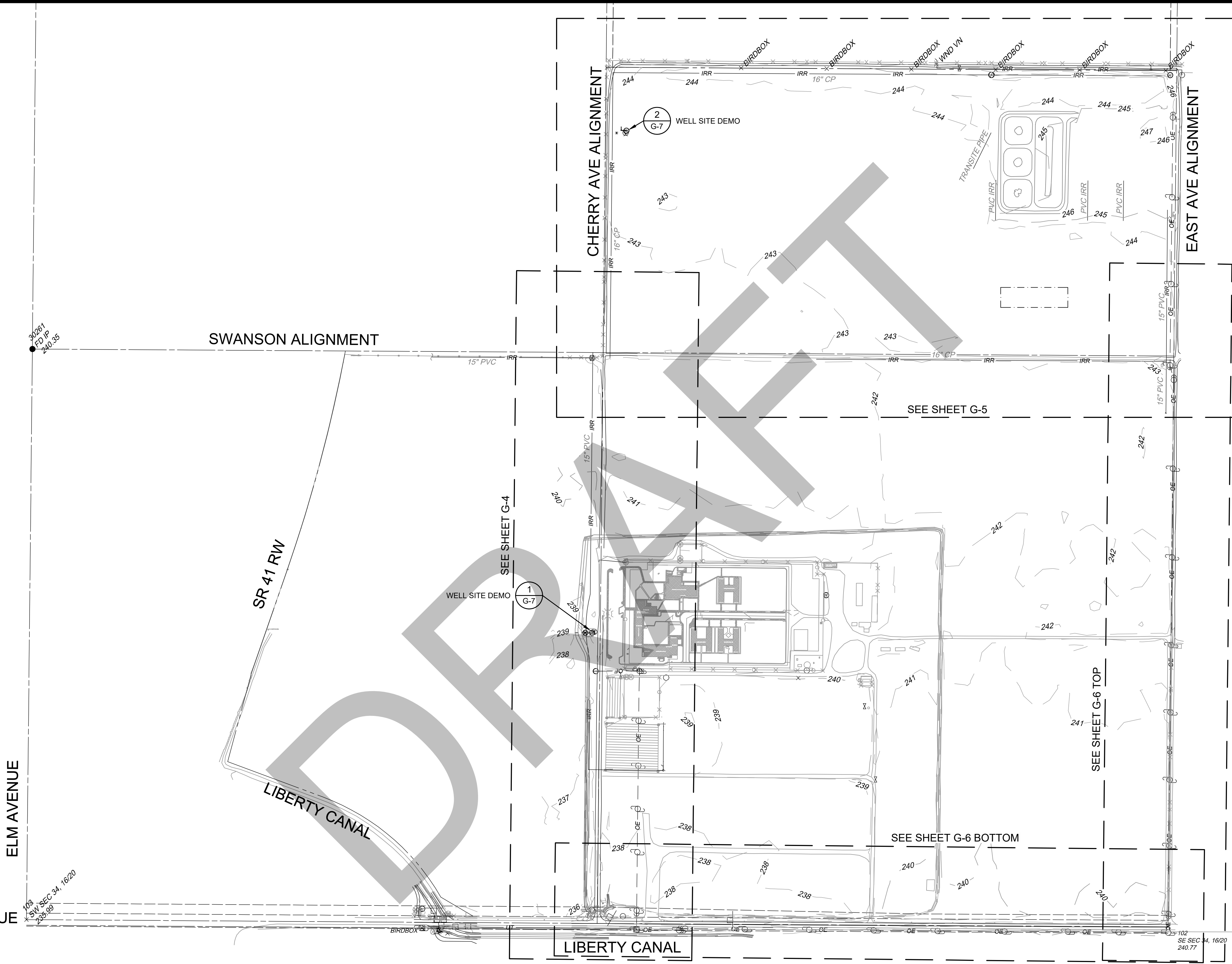
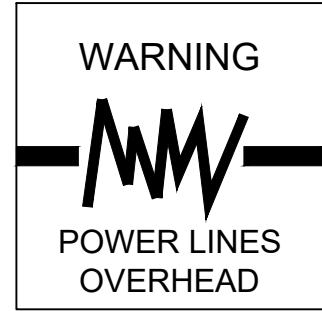
CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT
CLASS A, GENERAL ENGINEERING
Table with columns: DRAWING NO., ROAD NO., BRIDGE NO., FISCAL YR., SHEET NO., TOTAL.

RECORD DRAWING table with fields for NAME, ADDRESS, CITY, STATE, ZIP, DATE AWARDED, DATE STARTED, DATE COMPLETED, and SIGNATURE.

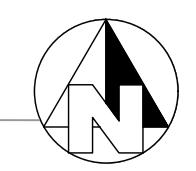
9/20/2024 10:26:54 AM g:\fresno_county_of_fresno\2024\elkhorn_rech\sheet\300\CD\300-CV-01.dwg sheet:001 CIVIL-G-1 COVER SHEET User: Stephen Greer



Know what's below.
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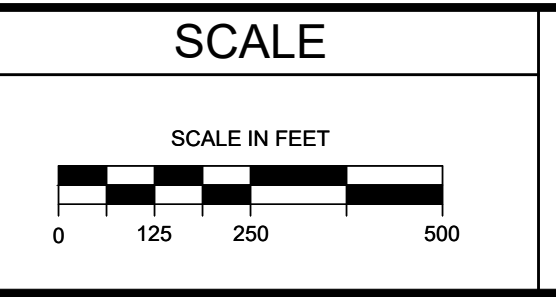


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DESIGNED:	DATE	RECORD DRAWING	
KJ	8-29-2024	RESIDENT ENGINEER	DATE
DRAWN:	8-29-2024		
SG	8-29-2024		
CHECKED:	8-29-2024		
KJ	8-29-2024		



SUPERVISING ENGINEER _____ DATE _____



PROJECT
ELKHORN RECHARGE FACILITY
HWY 41 & ELKHORN AVE, FRESNO COUNTY

ROAD NO. _____ BRIDGE NO. _____



DEPARTMENT OF PUBLIC WORKS AND PLANNING

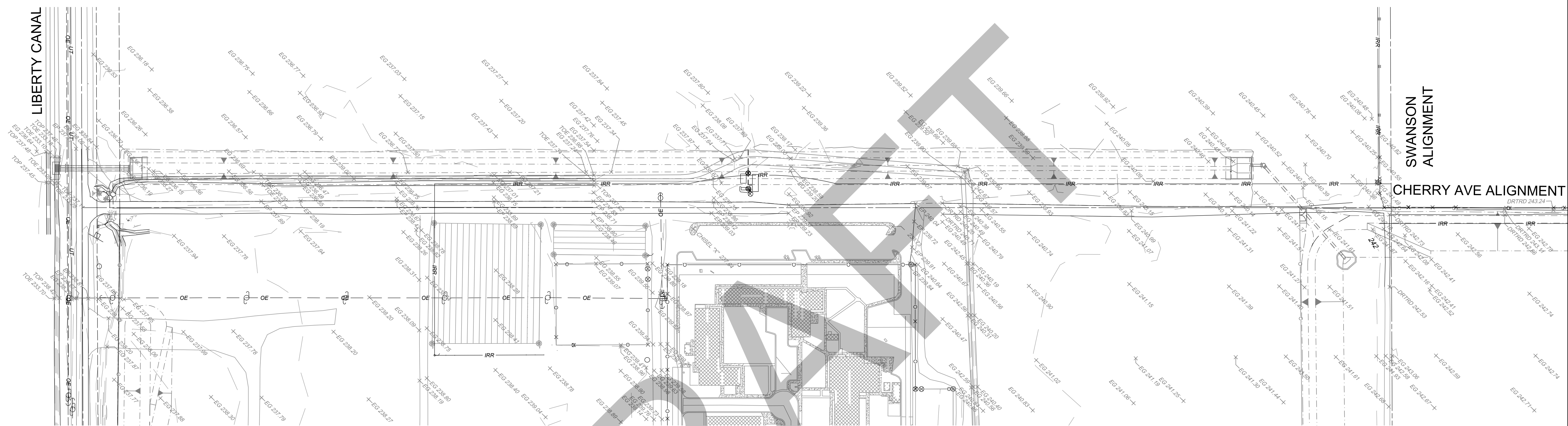
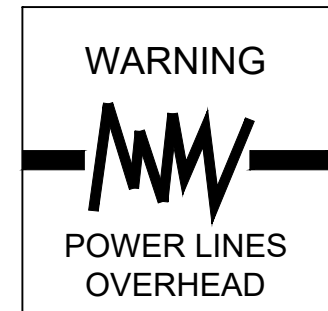
EXISTING SITE PLAN

DRAWING NO. 11330 SHEET NO. G-3 TOTAL 30

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



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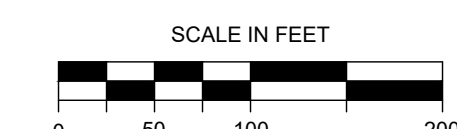


PROVOST & PRITCHARD

NOTE
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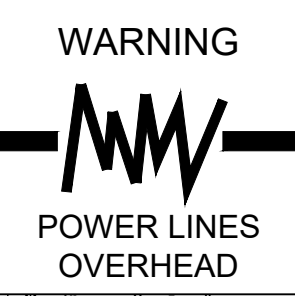
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8/29/2024 10:57 AM g:\fresno\county\of\15971397\2024-449\chm\chm\basin\350\CAD\240 sheet\sheet01_C011.G4 EXISTING SITE PLAN CONVEYANCE CHANNEL AREA.dwg - Stephen Graze

DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING		SCALE			PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING			
DRAWN: SG	DATE: 8-29-2024	RESIDENT ENGINEER	DATE	ELKHORN RECHARGE FACILITY			EXISTING SITE PLAN					
CHECKED: KJ	DATE: 8-29-2024			HWY 41 & ELKHORN AVE, FRESNO COUNTY			CONVEYANCE CHANNEL AREA					
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						SUPERVISING ENGINEER	DATE	ROAD NO.	BRIDGE NO.	DRAWING NO. 11330	SHEET NO. G-4	TOTAL 30

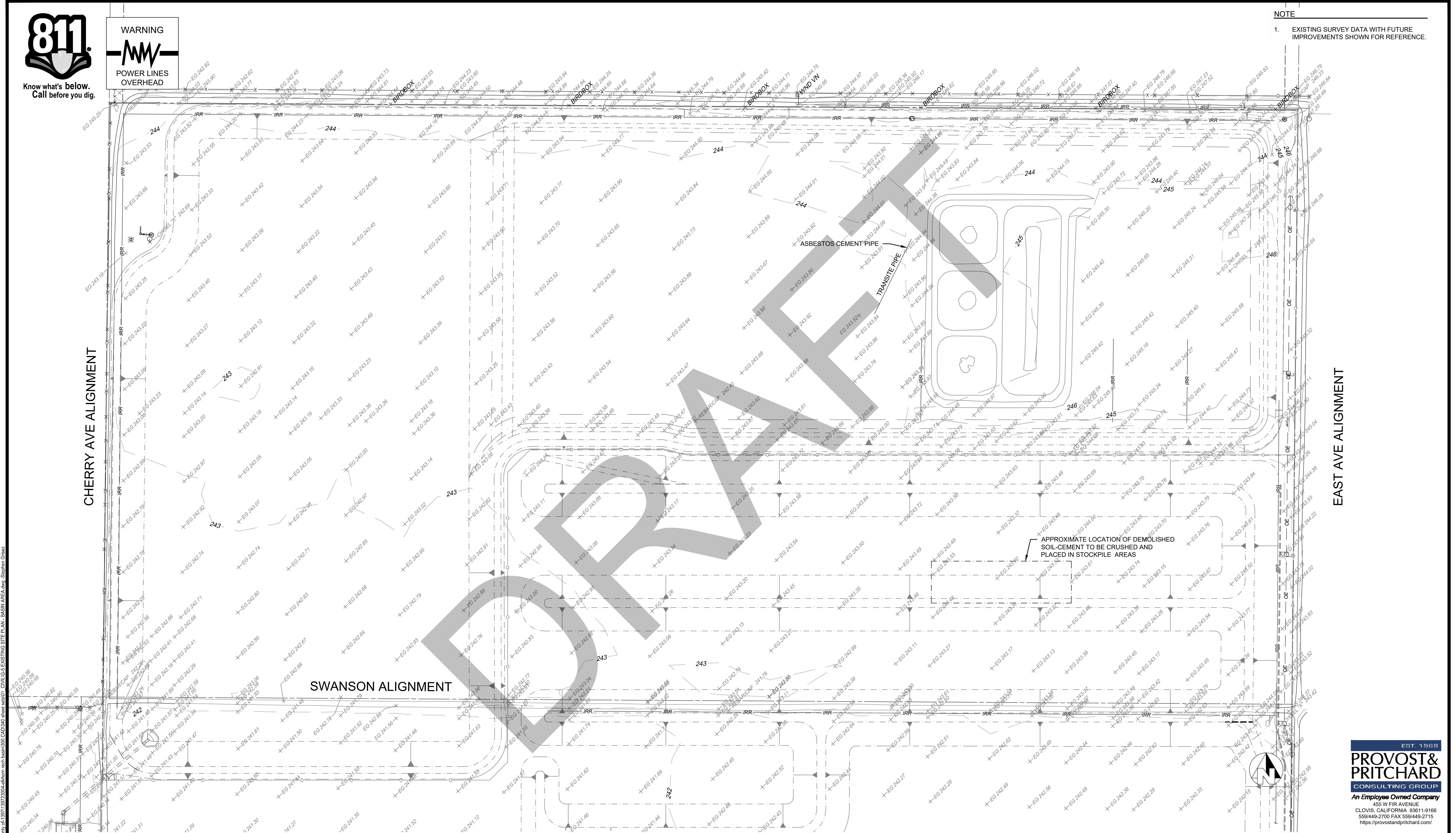


Know what's below.
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NOTE

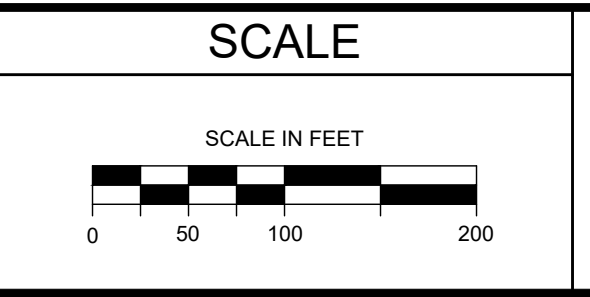
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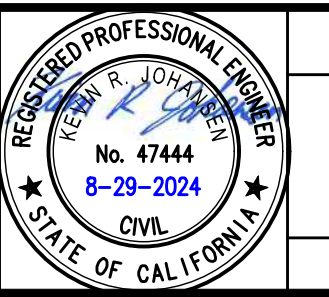
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DESIGNED: KJ	DATE: 8-29-2024
DRAWN: SG	DATE: 8-29-2024
CHECKED: KJ	DATE: 8-29-2024

RECORD DRAWING	
DATE	DATE
RESIDENT ENGINEER	



SUPERVISING ENGINEER	DATE
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PROJECT	
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.

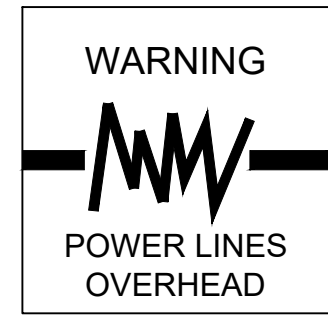


DEPARTMENT OF PUBLIC WORKS AND PLANNING		
EXISTING SITE PLAN - BASIN AREA		
DRAWING NO. 11330	SHEET NO. G-5	TOTAL 30

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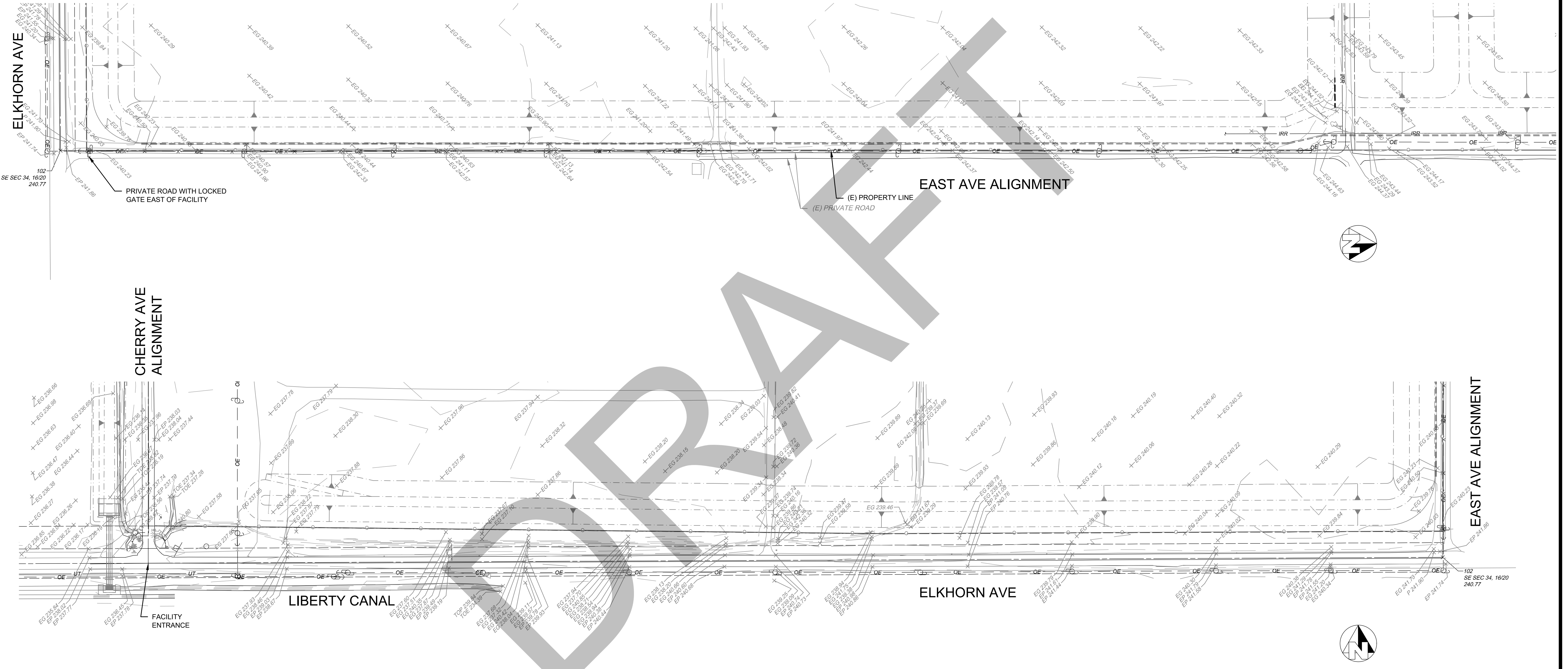


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NOTE

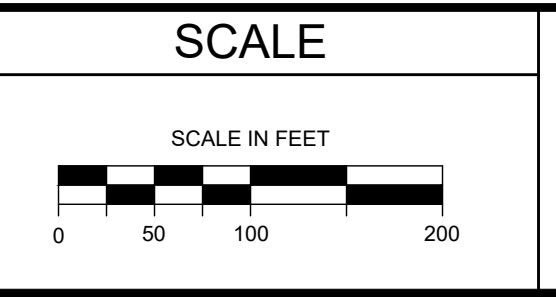
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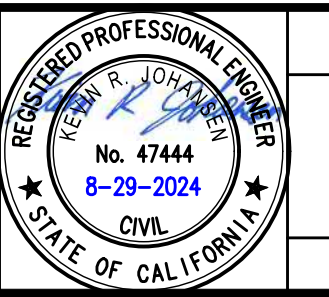
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DESIGNED: KJ	8-29-2024
DRAWN: SG	8-29-2024
CHECKED: KJ	8-29-2024

DATE	RECORD DRAWING	DATE
8-29-2024	RESIDENT ENGINEER	



SUPERVISING ENGINEER _____ DATE _____



PROJECT
ELKHORN RECHARGE FACILITY
HWY 41 & ELKHORN AVE, FRESNO COUNTY

ROAD NO. _____ BRIDGE NO. _____



DEPARTMENT OF PUBLIC WORKS AND PLANNING

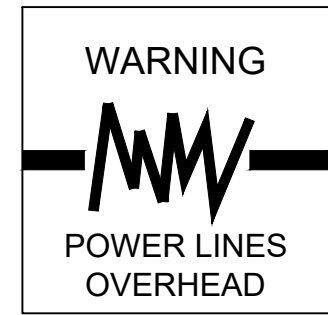
EXISTING SITE PLAN PERIMETER

DRAWING NO. 11330 SHEET NO. G-6 TOTAL 30

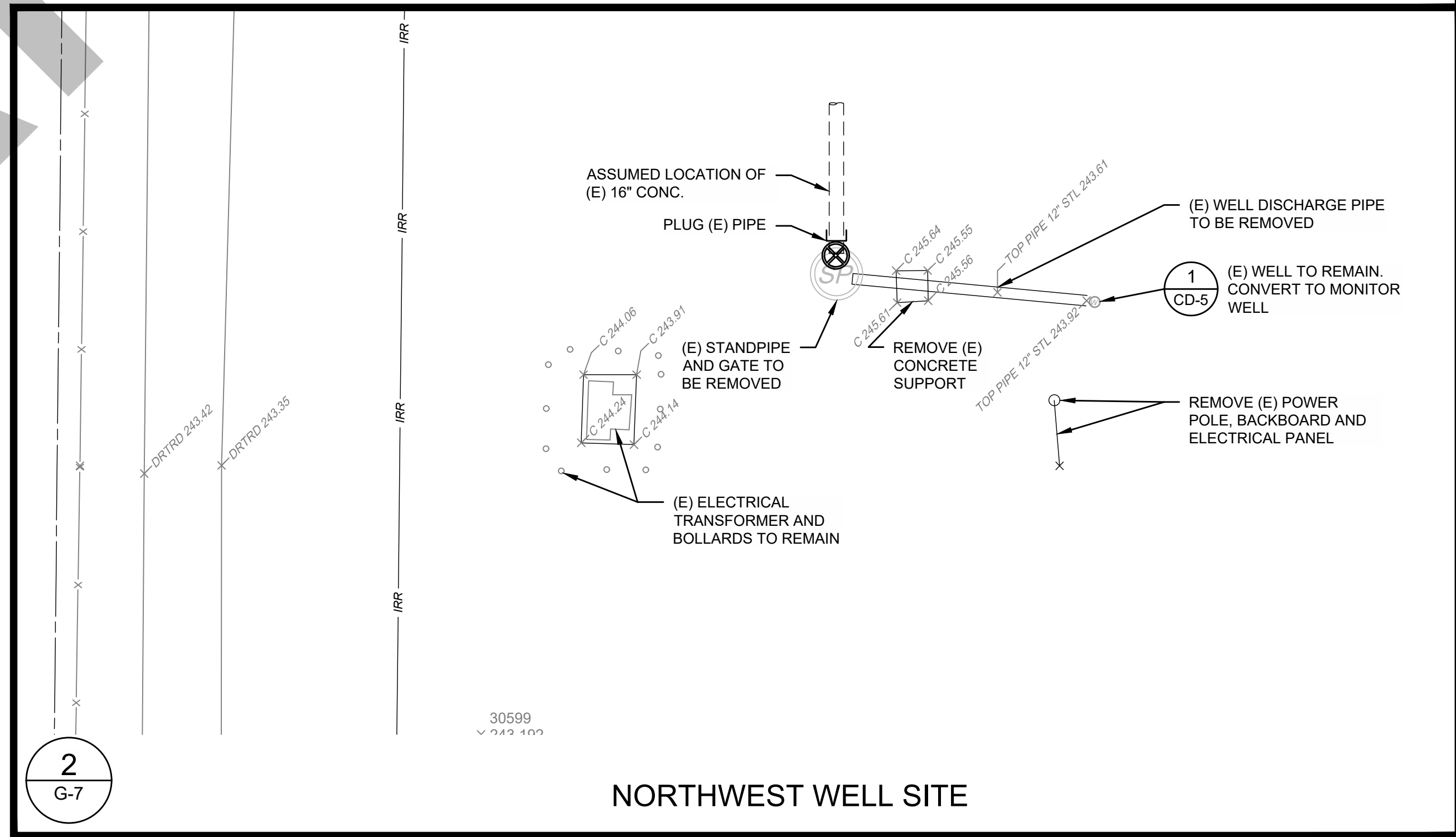
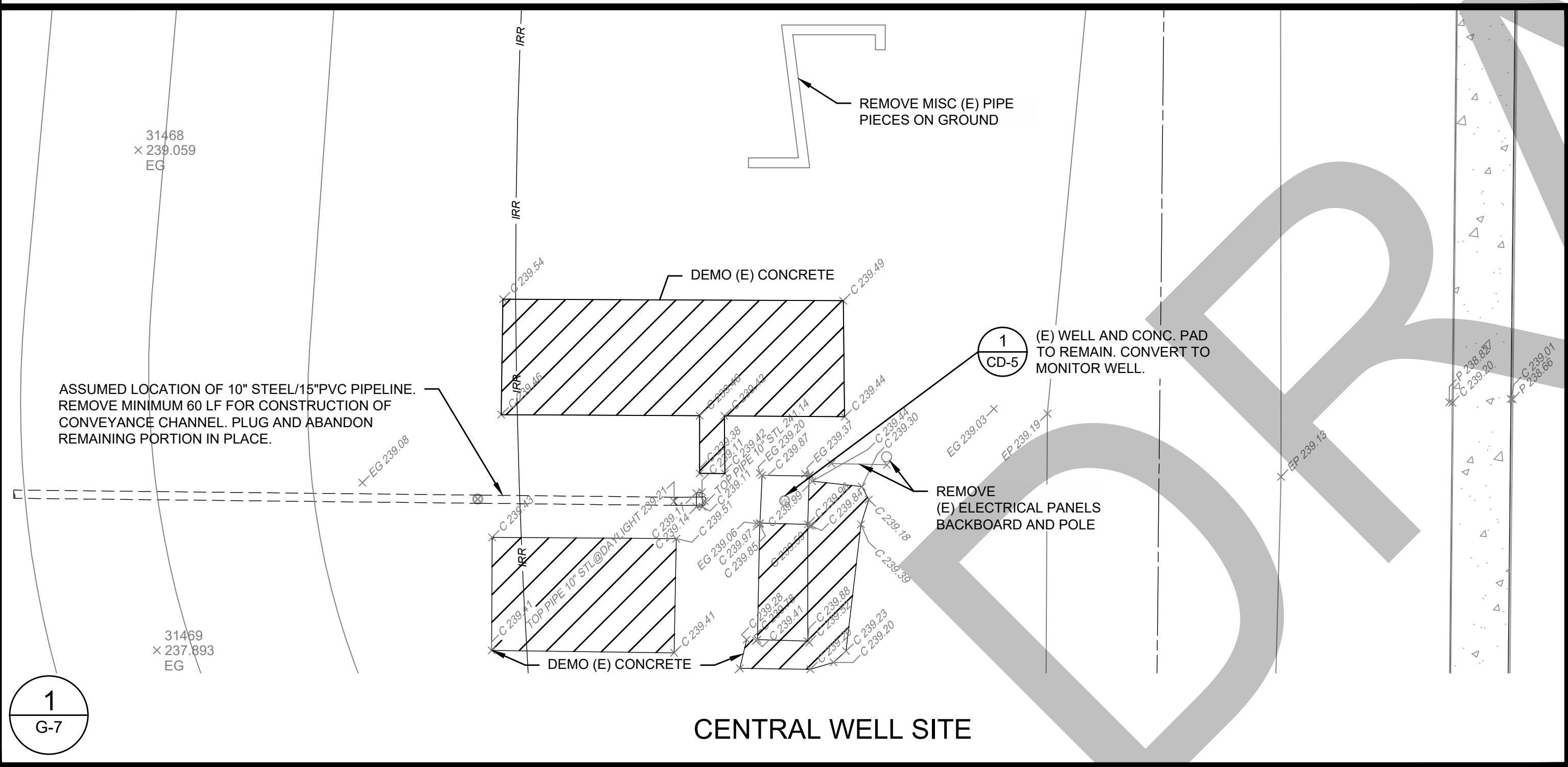
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8/29/2024 10:38 AM g:\fresno\county\41159713972014-elkhorn\sch\basin\350\CD\540 sheet\sheet01.dwg (L) G-7 DEMOLITION PLAN.dwg Stephen Galaz

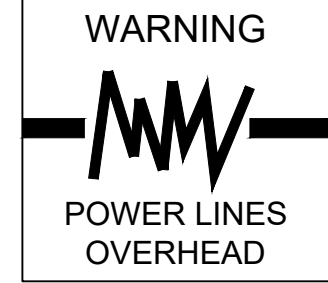


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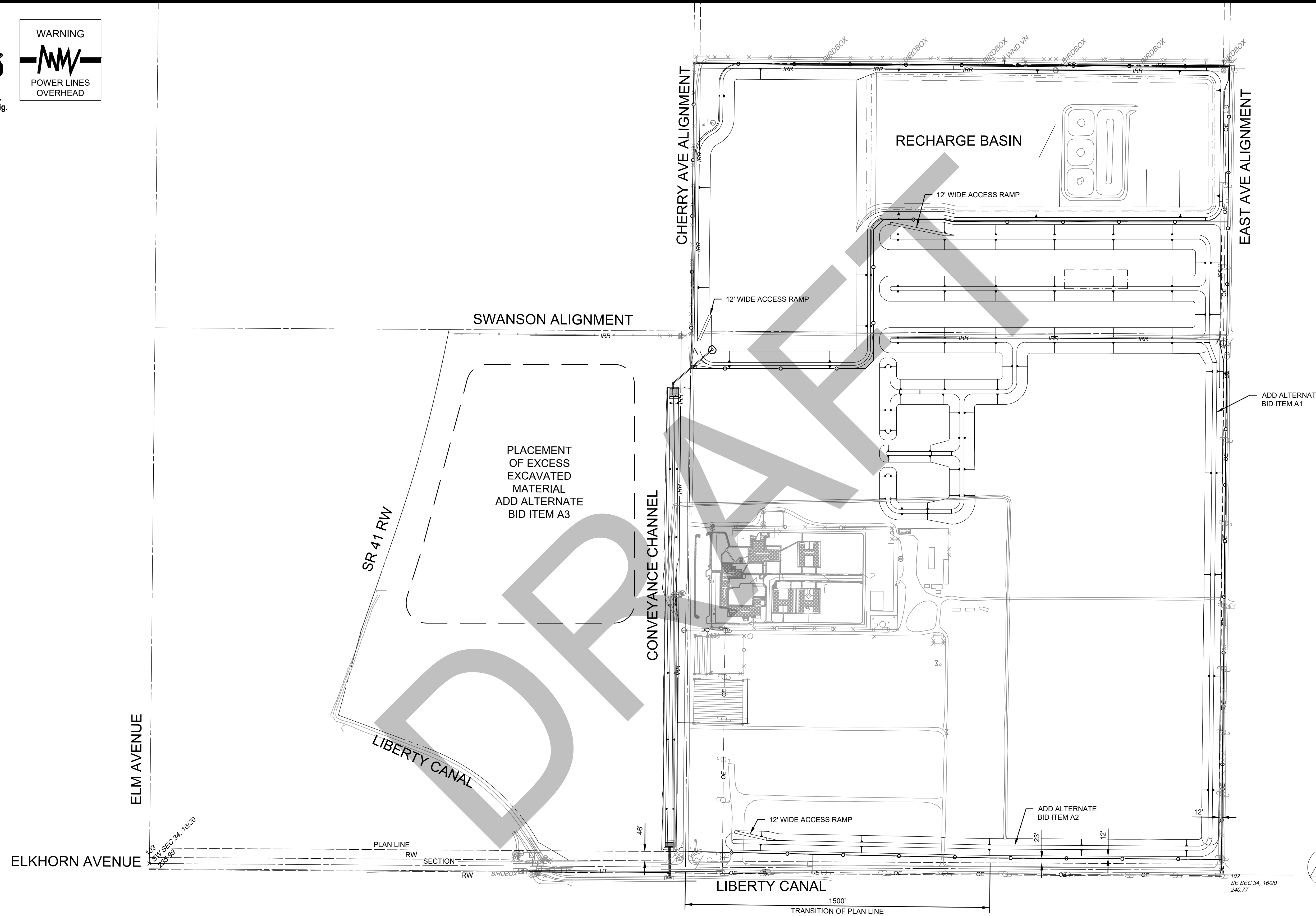
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DRAWN: SG	DATE: 8-29-2024	RESIDENT ENGINEER	DATE	SCALE IN FEET		ELKHORN RECHARGE FACILITY		DEMOLITION PLAN		
CHECKED: KJ	DATE: 8-29-2024					HWY 41 & ELKHORN AVE, FRESNO COUNTY		DRAWING NO. 11330	SHEET NO. G-7	TOTAL 30
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						ROAD NO. BRIDGE NO.				



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ELM AVENUE
ELKHORN AVENUE

CHERRY AVE ALIGNMENT

EAST AVE ALIGNMENT

SWANSON ALIGNMENT

SR 41 RW

LIBERTY CANAL

CONVEYANCE CHANNEL

PLACEMENT OF EXCESS EXCAVATED MATERIAL
ADD ALTERNATE BID ITEM A3

RECHARGE BASIN

12' WIDE ACCESS RAMP

12' WIDE ACCESS RAMP

ADD ALTERNATE BID ITEM A1

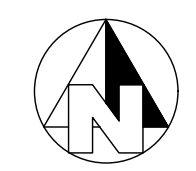
ADD ALTERNATE BID ITEM A2

12' WIDE ACCESS RAMP

LIBERTY CANAL

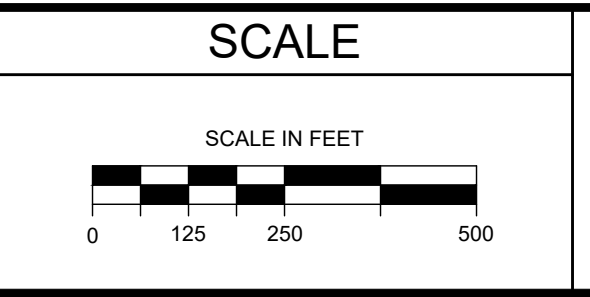
1500' TRANSITION OF PLAN LINE

102 SE SEC 34, 16/20 240.77



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KJ	8-29-2024	RESIDENT ENGINEER	DATE
DRAWN:	8-29-2024		
SG			
CHECKED:	8-29-2024		
KJ			



SUPERVISING ENGINEER _____ DATE _____



PROJECT
ELKHORN RECHARGE FACILITY
 HWY 41 & ELKHORN AVE, FRESNO COUNTY
 ROAD NO. _____ BRIDGE NO. _____

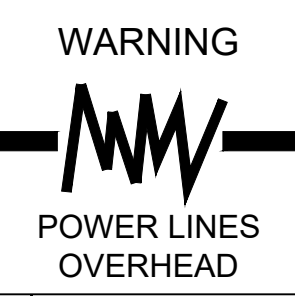


DEPARTMENT OF PUBLIC WORKS AND PLANNING
OVERALL SITE PLAN
 DRAWING NO. 11330 SHEET NO. C-1 TOTAL 30

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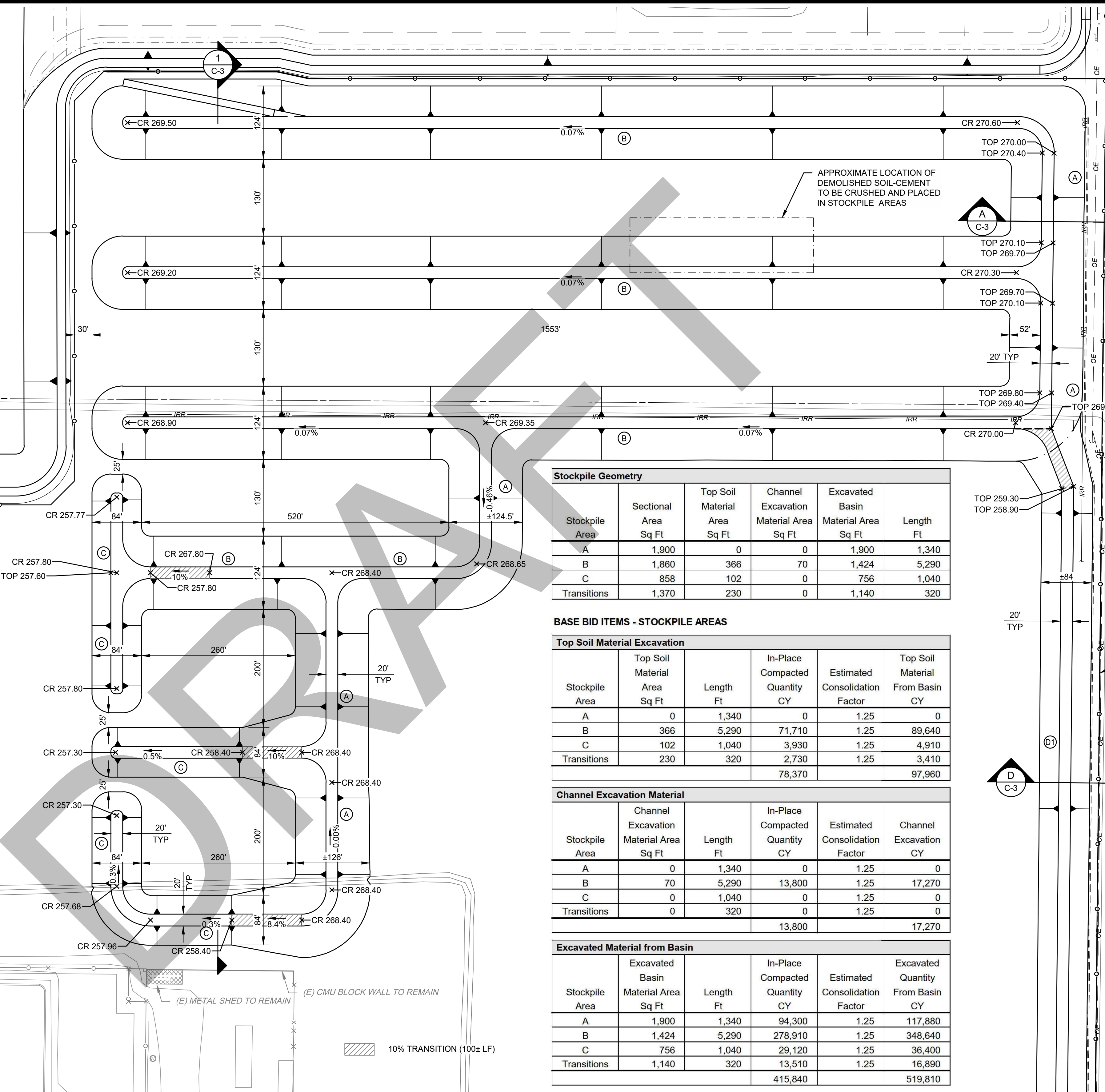
CHERRY AVE ALIGNMENT

RECHARGE BASIN

SWANSON ALIGNMENT

- STOCKPILE AREA CONFIGURATION**
- (A) - 26' HIGH WITH 2:1 SIDE SLOPES BOTH SIDES. TOP GRADED TO DRAIN TO EAST.
 - (B) - 26' HIGH WITH 2:1 SIDE SLOPES BOTH SIDES. TOP CROWNED IN MIDDLE.
 - (C) - 16' HIGH WITH 2:1 SIDE SLOPES BOTH SIDES. TOP CROWNED IN MIDDLE.
 - (D) - 16' HIGH WITH 2:1 SIDE SLOPES BOTH SIDES. TOP GRADED TO DRAIN TOWARD EXTERIOR OF SITE.

- EARTHWORK QUANTITY NOTES**
1. EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR CALCULATING THEIR OWN EARTHWORK QUANTITIES.
 2. IN-PLACE COMPACTED QUANTITY SHOWN FOR STOCKPILE AREAS REPRESENTS AN IN-PLACE COMPACTED FILL VOLUME.
 3. EXCAVATED QUANTITY CALCULATED ASSUMING 25% CONSOLIDATION AND WASTE.
 4. EARTHWORK QUANTITIES ARE TO ACHIEVE A BASIN FLOOR ELEVATION OF 231.0 ON WESTERN PORTION. CONTRACTOR TO EXCAVATE SUFFICIENT QUANTITY FROM STEPPED FLOOR PORTION OF BASIN TO CONSTRUCT STOCKPILE AREAS TO DIMENSIONS SHOWN.



Stockpile Geometry

Stockpile Area	Sectional Area Sq Ft	Top Soil Material Area Sq Ft	Channel Excavation Material Area Sq Ft	Excavated Basin Material Area Sq Ft	Length Ft
A	1,900	0	0	1,900	1,340
B	1,860	366	70	1,424	5,290
C	858	102	0	756	1,040
Transitions	1,370	230	0	1,140	320

BASE BID ITEMS - STOCKPILE AREAS

Top Soil Material Excavation

Stockpile Area	Top Soil Material Area Sq Ft	Length Ft	In-Place Compacted Quantity CY	Estimated Consolidation Factor	Top Soil Material From Basin CY
A	0	1,340	0	1.25	0
B	366	5,290	71,710	1.25	89,640
C	102	1,040	3,930	1.25	4,910
Transitions	230	320	2,730	1.25	3,410
			78,370		97,960

Channel Excavation Material

Stockpile Area	Channel Excavation Material Area Sq Ft	Length Ft	In-Place Compacted Quantity CY	Estimated Consolidation Factor	Channel Excavation CY
A	0	1,340	0	1.25	0
B	70	5,290	13,800	1.25	17,270
C	0	1,040	0	1.25	0
Transitions	0	320	0	1.25	0
			13,800		17,270

Excavated Material from Basin

Stockpile Area	Excavated Basin Material Area Sq Ft	Length Ft	In-Place Compacted Quantity CY	Estimated Consolidation Factor	Excavated Quantity From Basin CY
A	1,900	1,340	94,300	1.25	117,880
B	1,424	5,290	278,910	1.25	348,640
C	756	1,040	29,120	1.25	36,400
Transitions	1,140	320	13,510	1.25	16,890
			415,840		519,810

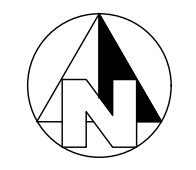
ADD ALTERNATE BID ITEMS

Excavated Material from Basin

Add Alternate Bid Item	Stockpile Area	Excavated Basin Material Area Sq Ft	Length Ft	In-Place Compacted Quantity CY	Estimated Consolidation Factor	Excavated Quantity From Basin CY
A1	D1	858	2,350	74,680	1.25	93,350
A1	D1 Transition	1,370	100	5,070	1.25	6,340
A2	D2	858	2,360	75,000	1.25	93,750
A3	excess material placement - excavated to ultimate finished floor					
						201,720

EAST AVE ALIGNMENT

FUTURE FENCE BY OTHERS



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8/29/2024 10:38 PM g:\fresno\county\dl\159713972014-449000\mch\basin\350 CAD\CAD\STOCKPILE AREA SITE PLAN.dwg - Sheet: C-2

DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING	
DRAWN: SG	DATE: 8-29-2024	RESIDENT ENGINEER	DATE:
CHECKED: KJ	DATE: 8-29-2024		

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SCALE

SCALE IN FEET

SUPERVISING ENGINEER _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
 No. 47444
 8-29-2024
 CIVIL
 STATE OF CALIFORNIA

PROJECT

ELKHORN RECHARGE FACILITY

HWY 41 & ELKHORN AVE, FRESNO COUNTY

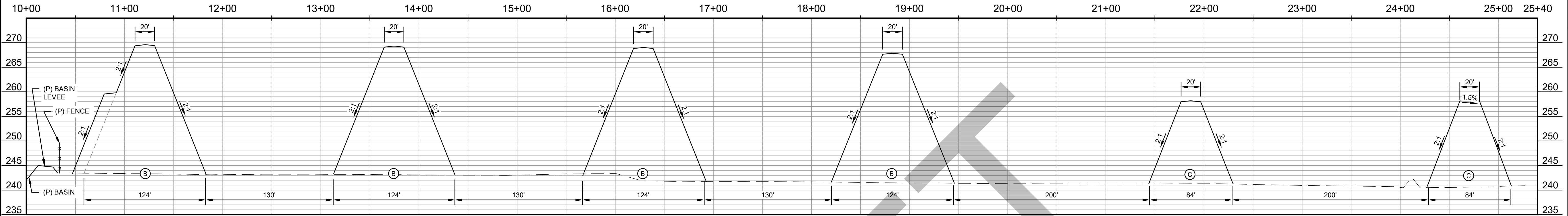
ROAD NO. _____ BRIDGE NO. _____

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STOCKPILE AREA SITE PLAN

DRAWING NO. 11330 SHEET NO. C-2 TOTAL 30

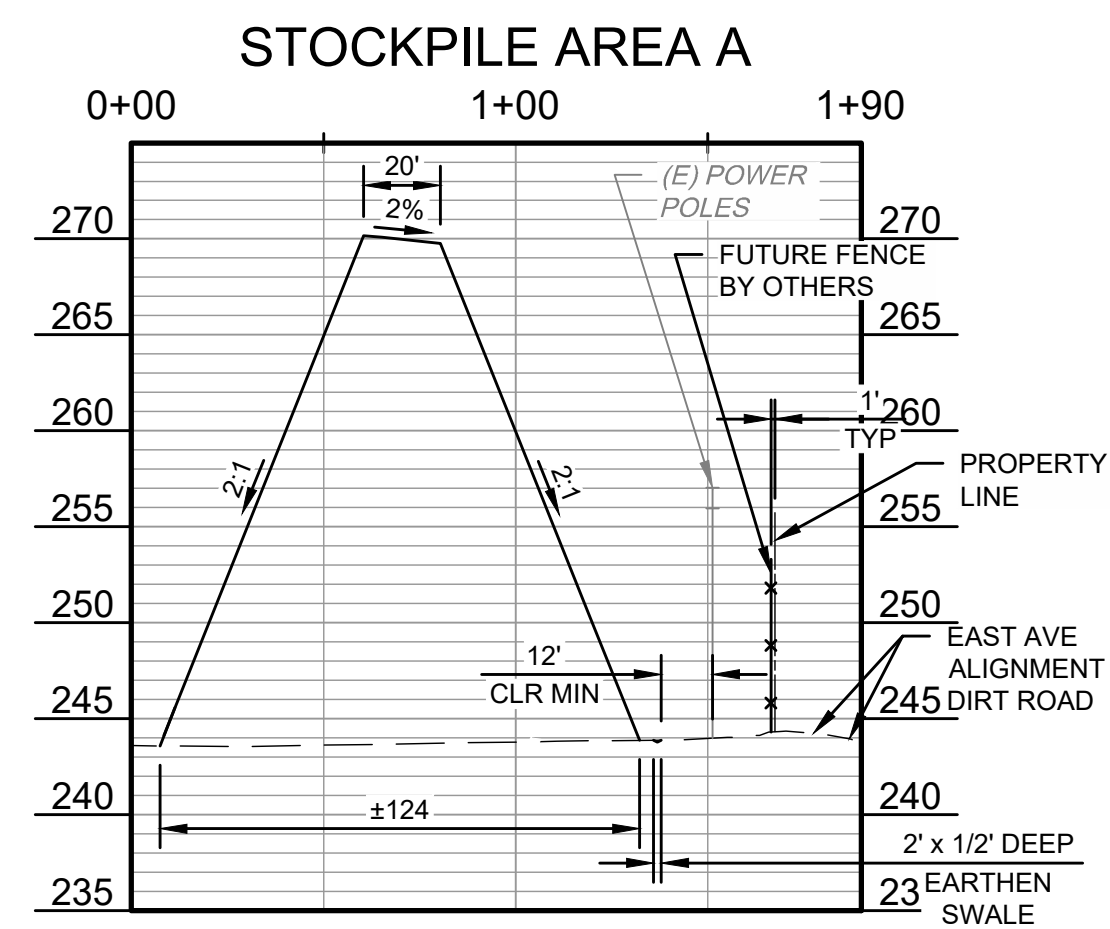
STOCKPILE AREA



1
C-3

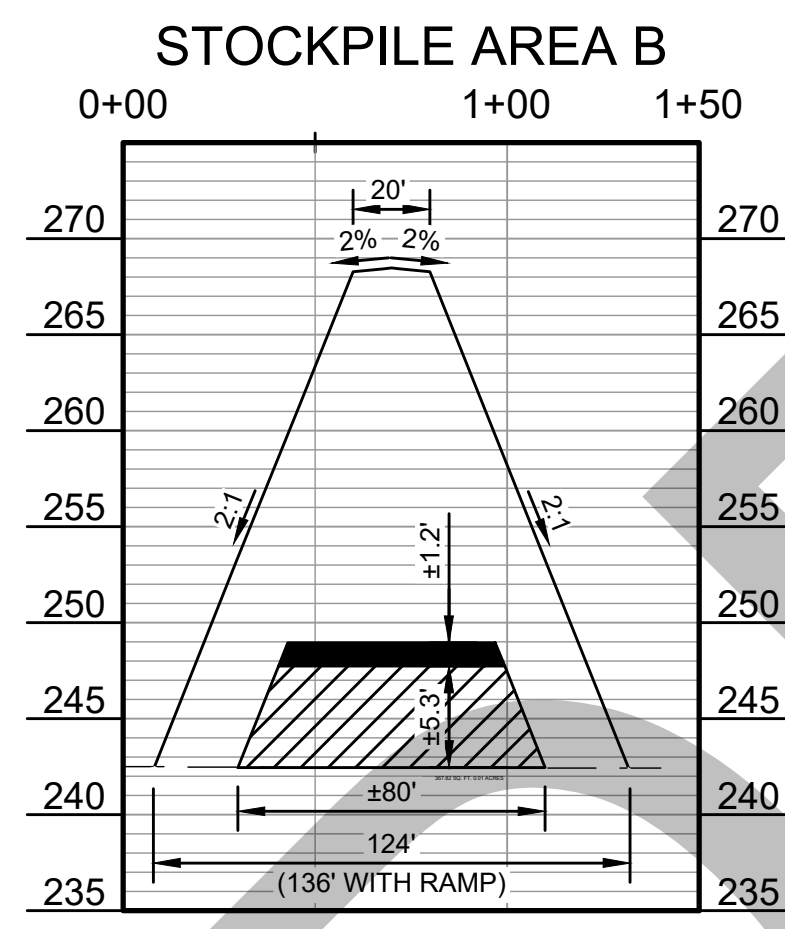
STOCKPILE AREA CONFIGURATION

- (A) - 26' HIGH WITH 2:1 SIDE SLOPES BOTH SIDES. TOP GRADED TO DRAIN TO EAST.
- (B) - 26' HIGH WITH 2:1 SIDE SLOPES BOTH SIDES. TOP CROWNED IN MIDDLE.
- (C) - 16' HIGH WITH 2:1 SIDE SLOPES BOTH SIDES. TOP CROWNED IN MIDDLE.
- (D) - 16' HIGH WITH 2:1 SIDE SLOPES BOTH SIDES. TOP GRADED TO DRAIN TOWARD EXTERIOR OF SITE.



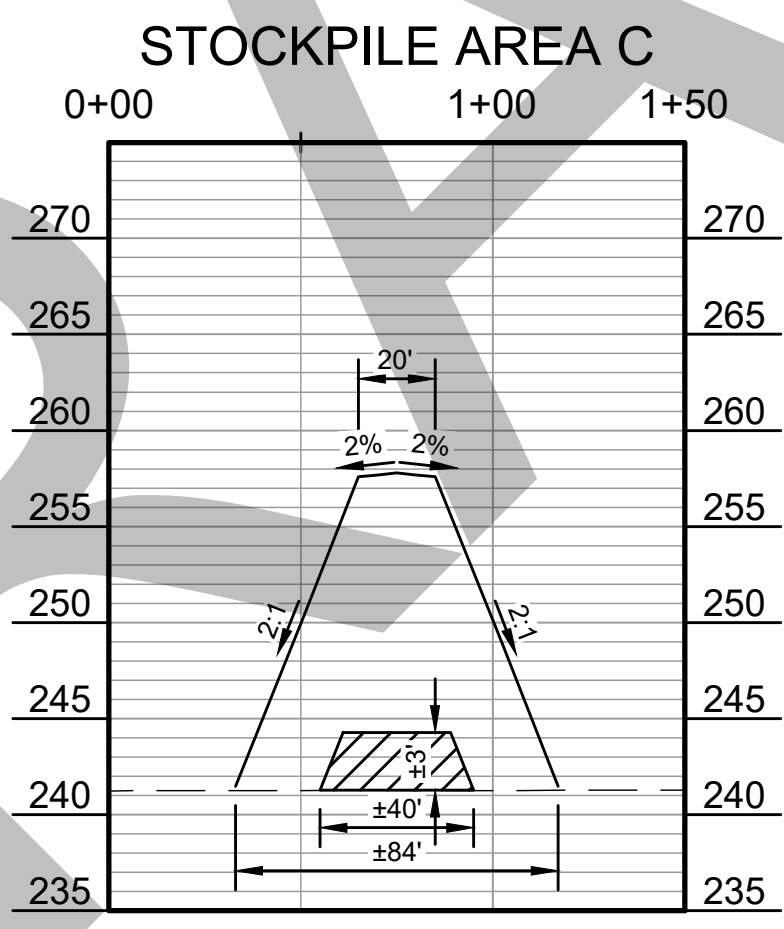
A
C-3

TYP. CROSS SECTIONAL AREA:
±1,900 SQ FT
EXCAVATED BASIN
MATERIAL: ±1,900 SQ FT



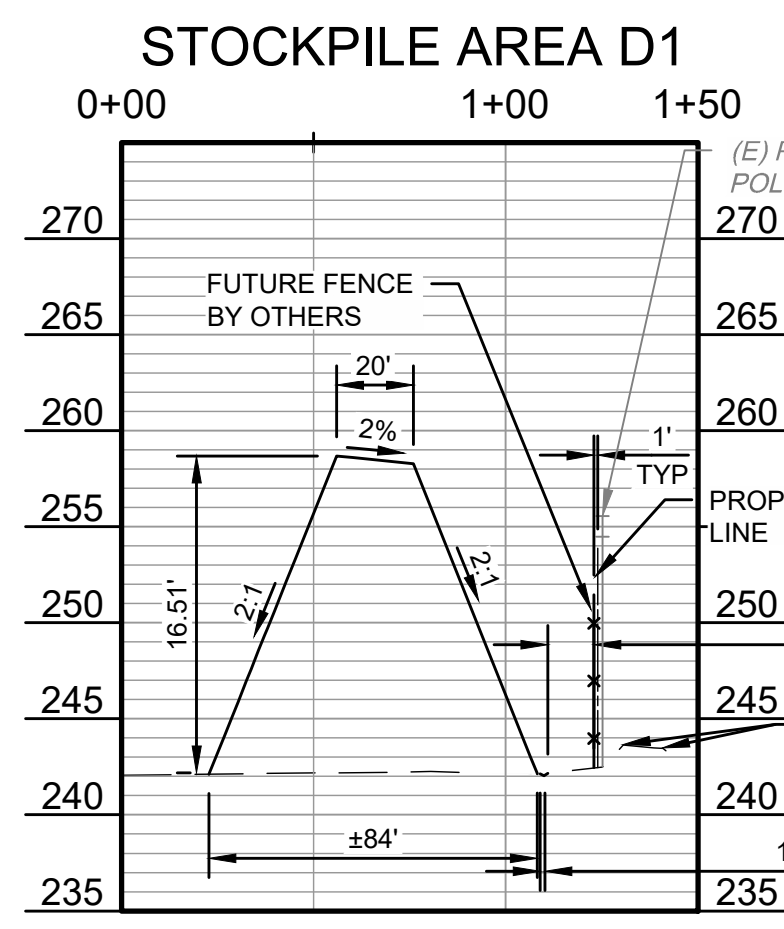
B
C-3

TYP. CROSS SECTIONAL AREA:
±1,860 SQ FT
TOP SOIL MATERIAL FROM BASIN
AREA: ±366 SQ FT
CHANNEL EXCAVATION
MATERIAL AREA: ±70 SQ FT
EXCAVATED BASIN
MATERIAL: ±1,424 SQ FT



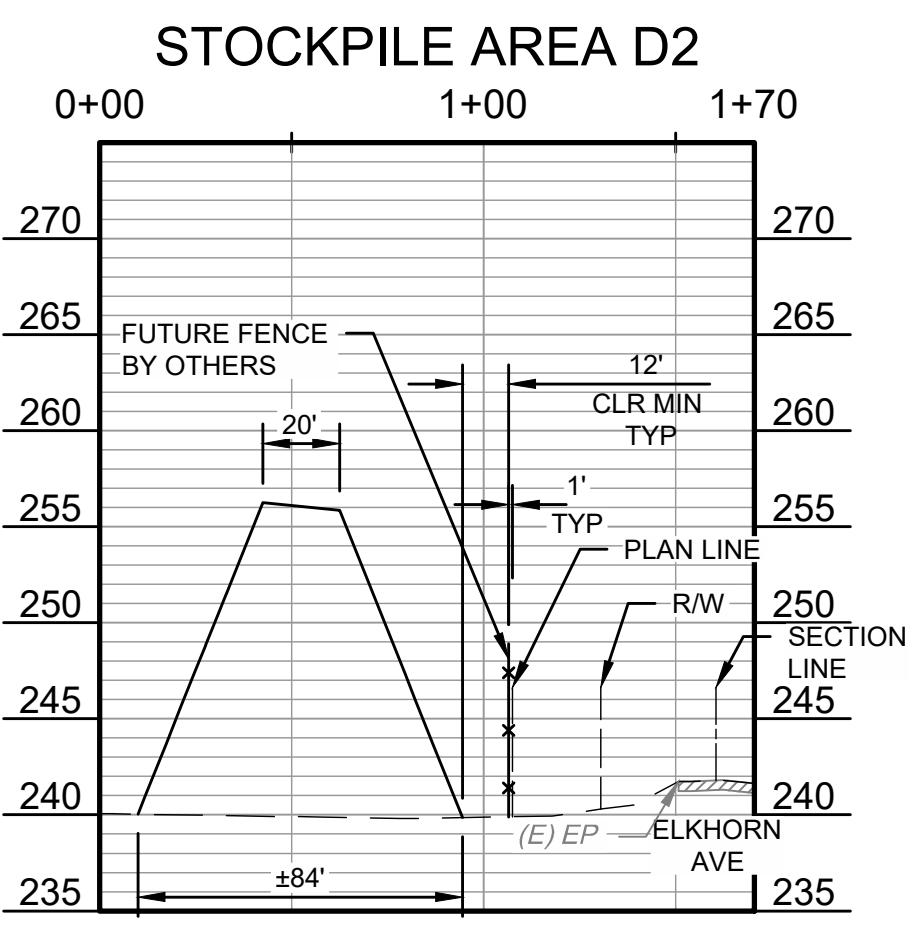
C
C-3

TYP. CROSS SECTIONAL AREA:
±858 SQ FT
TOP SOIL MATERIAL FROM BASIN
AREA: ±102 SQ FT
EXCAVATED BASIN
MATERIAL: ±756 SQ FT



D
C-3

TYP. CROSS SECTIONAL AREA:
±858 SQ FT
EXCAVATED BASIN
MATERIAL: ±858 SQ FT



D2
C-3

TYP. CROSS SECTIONAL AREA:
±858 SQ FT
EXCAVATED BASIN
MATERIAL: ±858 SQ FT

- = PLACEMENT OF TOP SOIL REMOVED FROM BASIN AREA AND/OR SOIL CEMENT REMNANTS
- = PLACEMENT OF MATERIAL FROM CHANNEL EXCAVATION

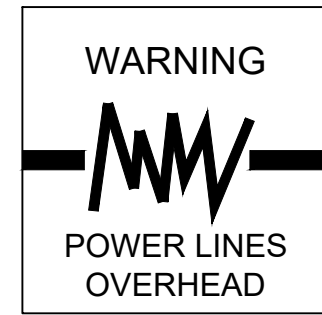
NOTE
1. SCARIFY A MINIMUM OF 8" PRIOR TO PLACEMENT OF STOCKPILE MATERIAL.

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DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DRAWN: SG	DATE: 8-29-2024	RESIDENT ENGINEER	DATE	ELKHORN RECHARGE FACILITY		STOCKPILE AREA SECTIONS				
CHECKED: KJ	DATE: 8-29-2024			HWY 41 & ELKHORN AVE, FRESNO COUNTY						
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				SUPERVISING ENGINEER		DATE		ROAD NO.	BRIDGE NO.	DRAWING NO. 11330

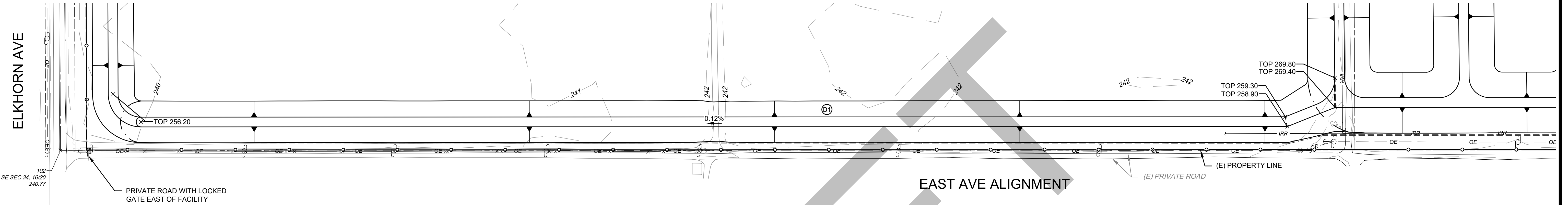


Know what's below.
Call before you dig.

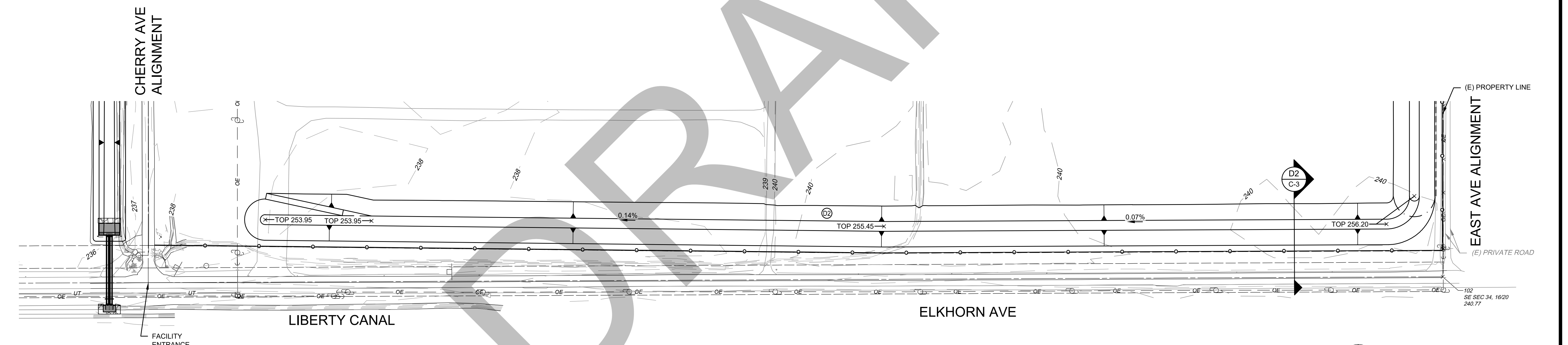


NOTE

- 1. EXISTING SURVEY DATA WITH FUTURE IMPROVEMENTS SHOWN FOR REFERENCE.



ADD ALTERNATE 1



ADD ALTERNATE 2

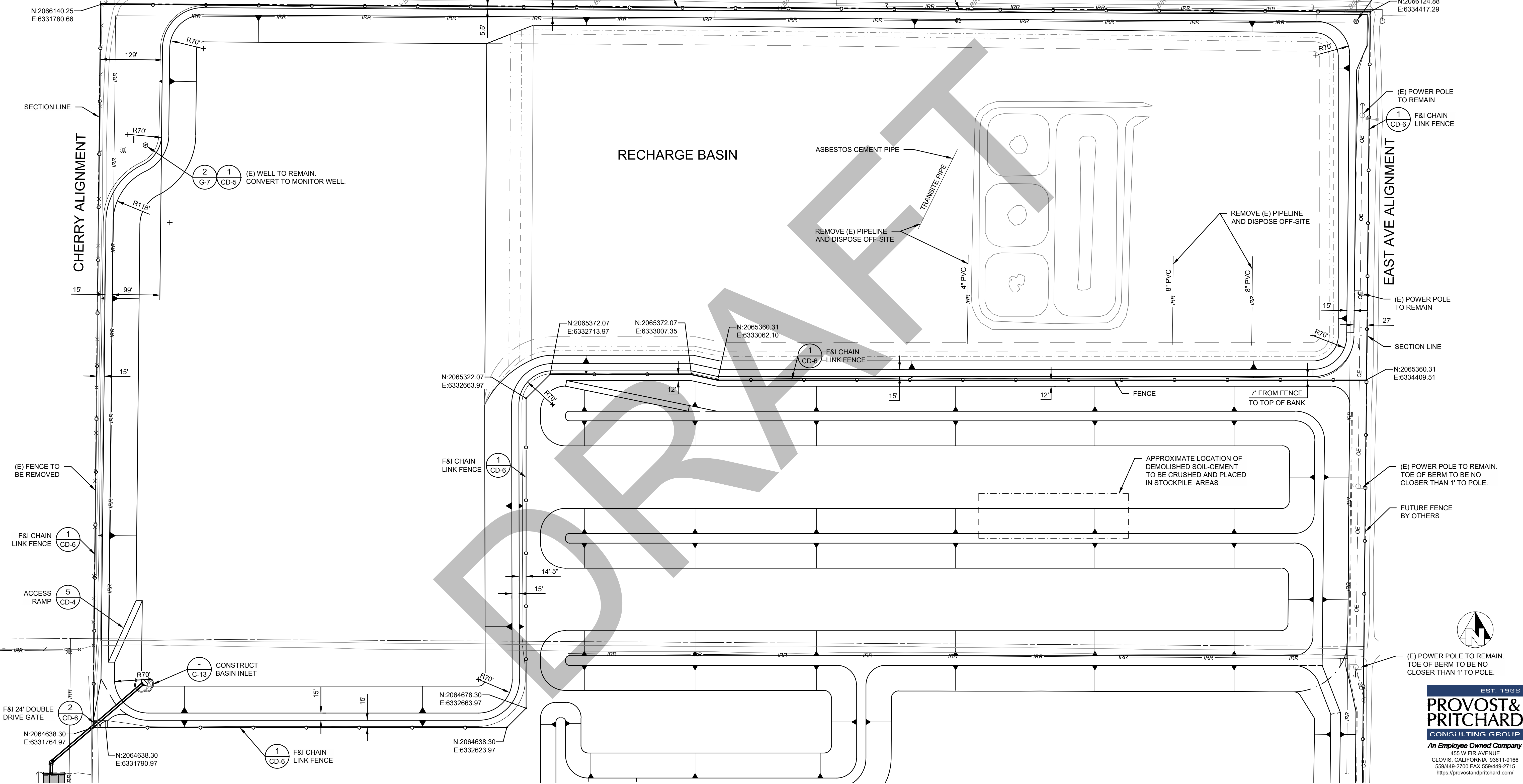
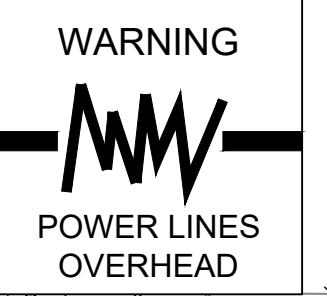
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DRAWN: SG	DATE: 8-29-2024	RESIDENT ENGINEER	DATE			ELKHORN RECHARGE FACILITY		SITE PLAN PERIMETER
CHECKED: KJ	DATE: 8-29-2024					HWY 41 & ELKHORN AVE, FRESNO COUNTY		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						ROAD NO.	BRIDGE NO.	DRAWING NO. 11330
								SHEET NO. C-4
								TOTAL 30

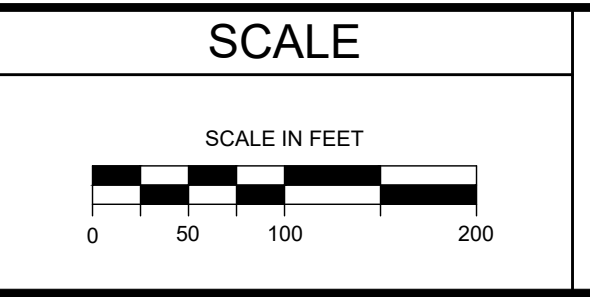


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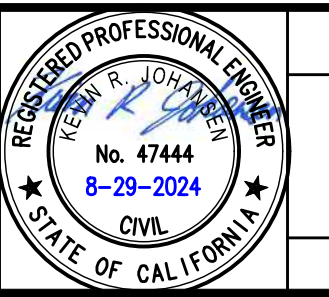


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DESIGNED:	DATE	RECORD DRAWING	
KJ	8-29-2024	RESIDENT ENGINEER	DATE
SG	8-29-2024		
KJ	8-29-2024		



SUPERVISING ENGINEER _____ DATE _____

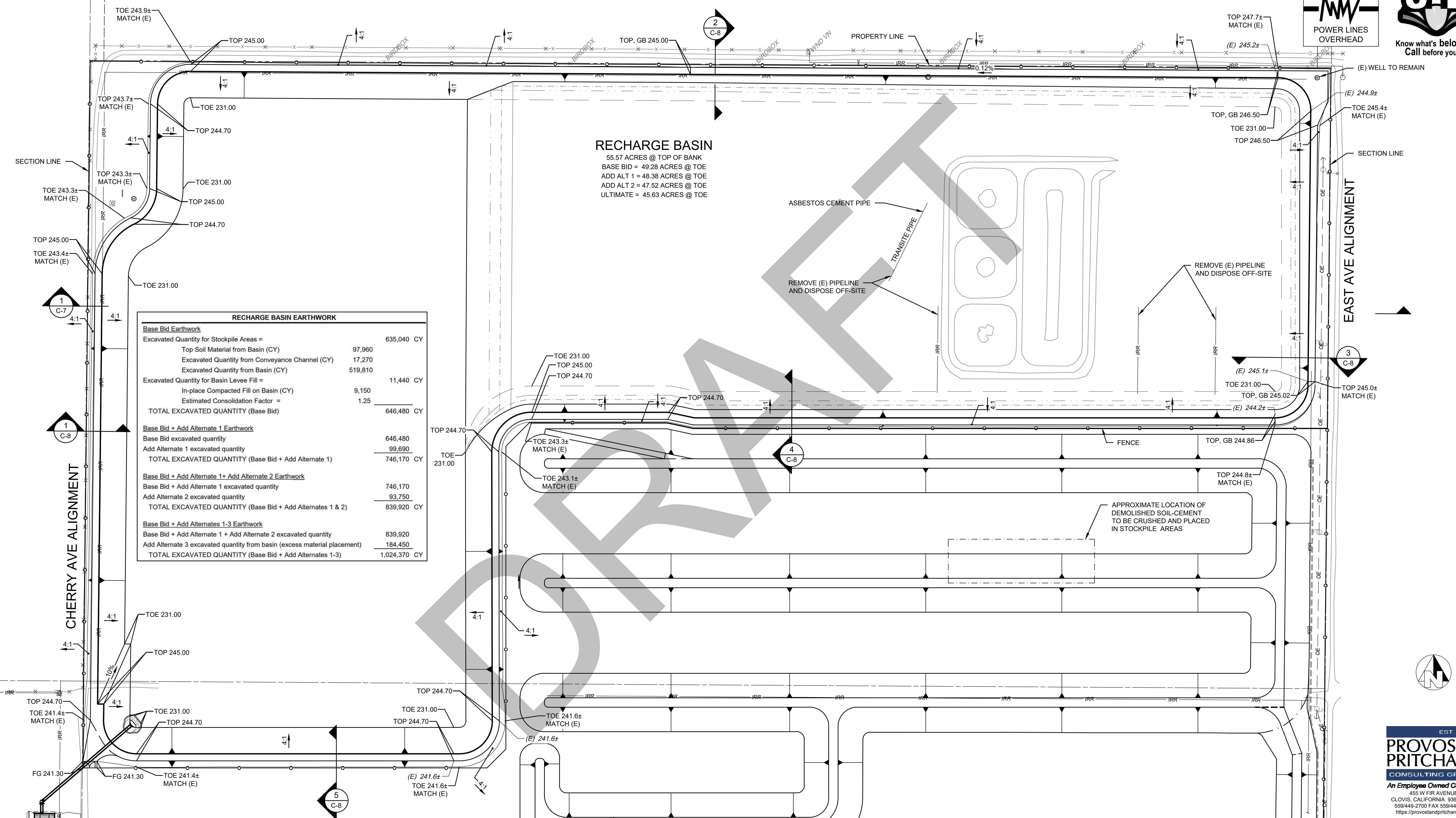
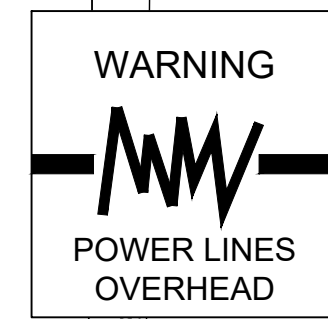


PROJECT
ELKHORN RECHARGE FACILITY
HWY 41 & ELKHORN AVE, FRESNO COUNTY
ROAD NO. _____ BRIDGE NO. _____



DEPARTMENT OF PUBLIC WORKS AND PLANNING
RECHARGE BASIN SITE PLAN
DRAWING NO. 11330 SHEET NO. C-5 TOTAL 30

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RECHARGE BASIN
 55.57 ACRES @ TOP OF BANK
 BASE BID = 49.28 ACRES @ TOE
 ADD ALT 1 = 48.38 ACRES @ TOE
 ADD ALT 2 = 47.52 ACRES @ TOE
 ULTIMATE = 45.63 ACRES @ TOE

RECHARGE BASIN EARTHWORK	
Base Bid Earthwork	
Excavated Quantity for Stockpile Areas =	635,040 CY
Top Soil Material from Basin (CY)	97,960
Excavated Quantity from Conveyance Channel (CY)	17,270
Excavated Quantity from Basin (CY)	519,810
Excavated Quantity for Basin Levee Fill =	11,440 CY
In-place Compacted Fill on Basin (CY)	9,150
Estimated Consolidation Factor =	1.25
TOTAL EXCAVATED QUANTITY (Base Bid)	646,480 CY
Base Bid + Add Alternate 1 Earthwork	
Base Bid excavated quantity	646,480
Add Alternate 1 excavated quantity	99,690
TOTAL EXCAVATED QUANTITY (Base Bid + Add Alternate 1)	746,170 CY
Base Bid + Add Alternate 1+ Add Alternate 2 Earthwork	
Base Bid + Add Alternate 1 excavated quantity	746,170
Add Alternate 2 excavated quantity	93,750
TOTAL EXCAVATED QUANTITY (Base Bid + Add Alternates 1 & 2)	839,920 CY
Base Bid + Add Alternates 1-3 Earthwork	
Base Bid + Add Alternate 1 + Add Alternate 2 excavated quantity	839,920
Add Alternate 3 excavated quantity from basin (excess material placement)	184,450
TOTAL EXCAVATED QUANTITY (Base Bid + Add Alternates 1-3)	1,024,370 CY

8/29/2024 10:55 AM g:\fresno\county\of\159715972014-elkhorn\rech\basin\301 CAD\301.dwg: RECHARGE BASIN GRADING PLAN.dwg: Suburban Giliaz

DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING	DATE
DRAWN: SG	8-29-2024	RESIDENT ENGINEER	
CHECKED: KJ	8-29-2024		

SCALE	
SCALE IN FEET	
SUPERVISING ENGINEER	DATE

PROJECT	
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



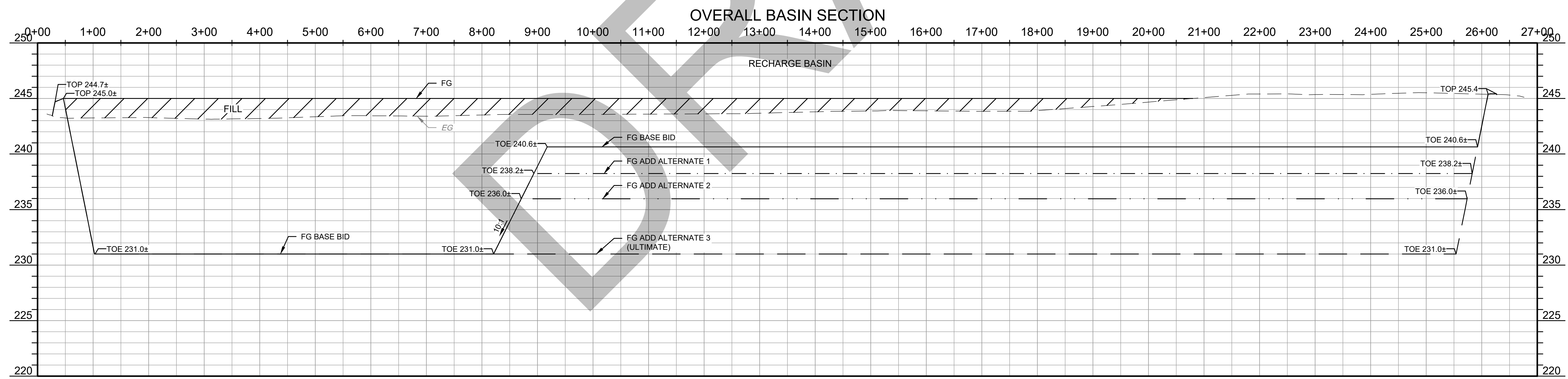
DEPARTMENT OF PUBLIC WORKS AND PLANNING	
RECHARGE BASIN GRADING PLAN	
DRAWING NO. 11330	SHEET NO. C-6
TOTAL 30	



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DRAFT

NOTE
 1. SCARIFY A MINIMUM OF 8" PRIOR TO PLACEMENT OF FILL MATERIAL.

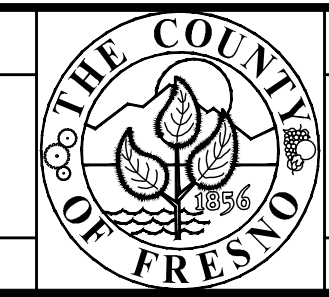


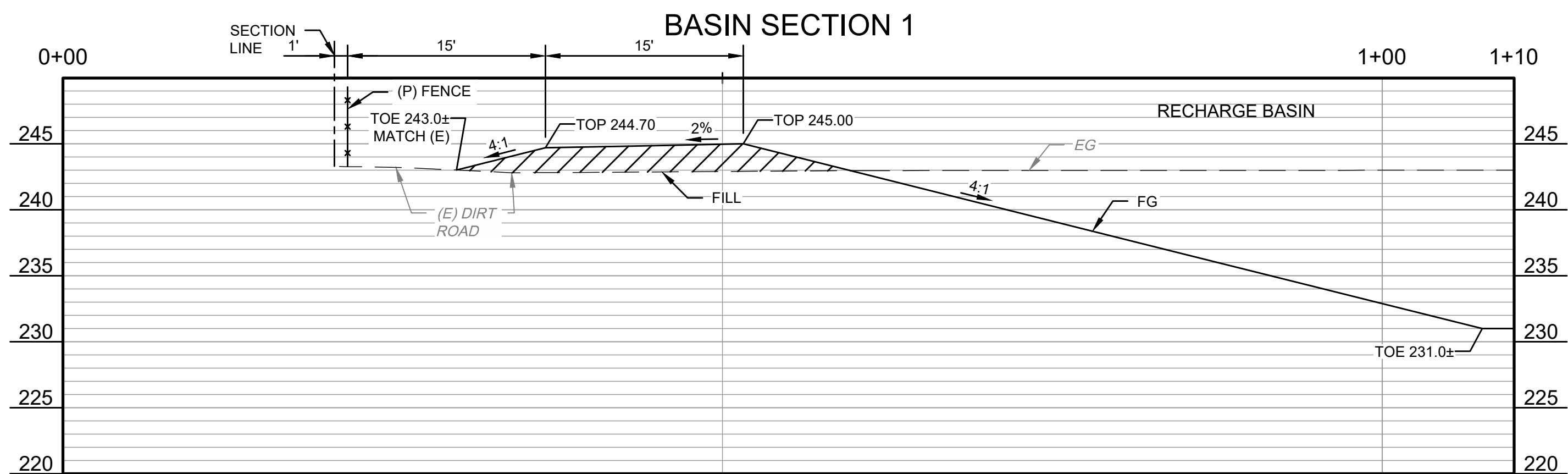
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1
C-7

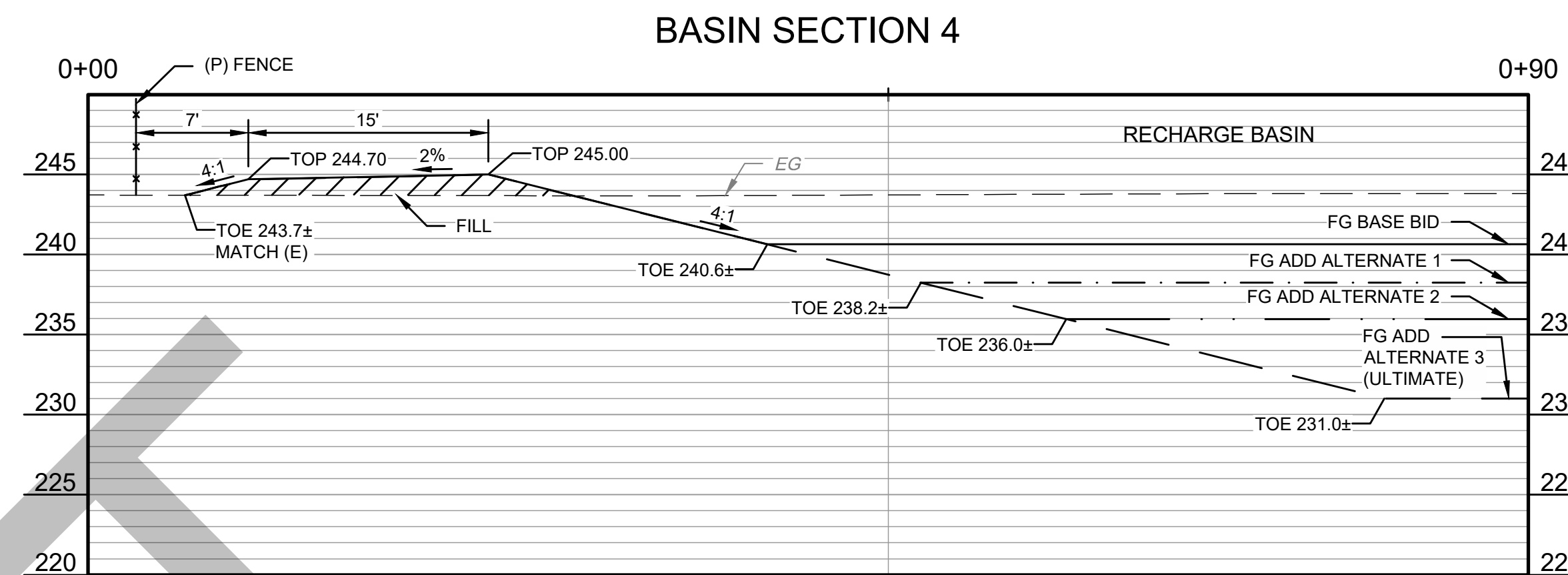
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	DATE	RECORD DRAWING	SCALE		PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: KJ	8-29-2024	RESIDENT ENGINEER			ELKHORN RECHARGE FACILITY	
DRAWN: SG	8-29-2024				HWY 41 & ELKHORN AVE, FRESNO COUNTY	GRADING BASIN SECTIONS
CHECKED: KJ	8-29-2024				ROAD NO. BRIDGE NO.	DRAWING NO. 11330 SHEET NO. C-7 TOTAL 30
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						

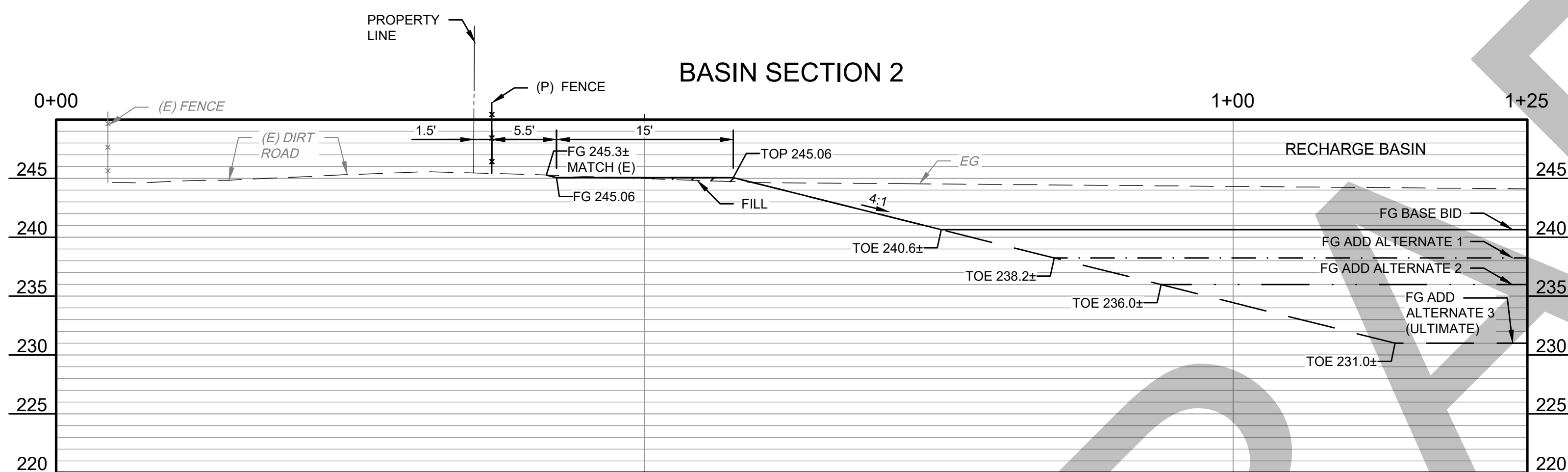




1
C-8

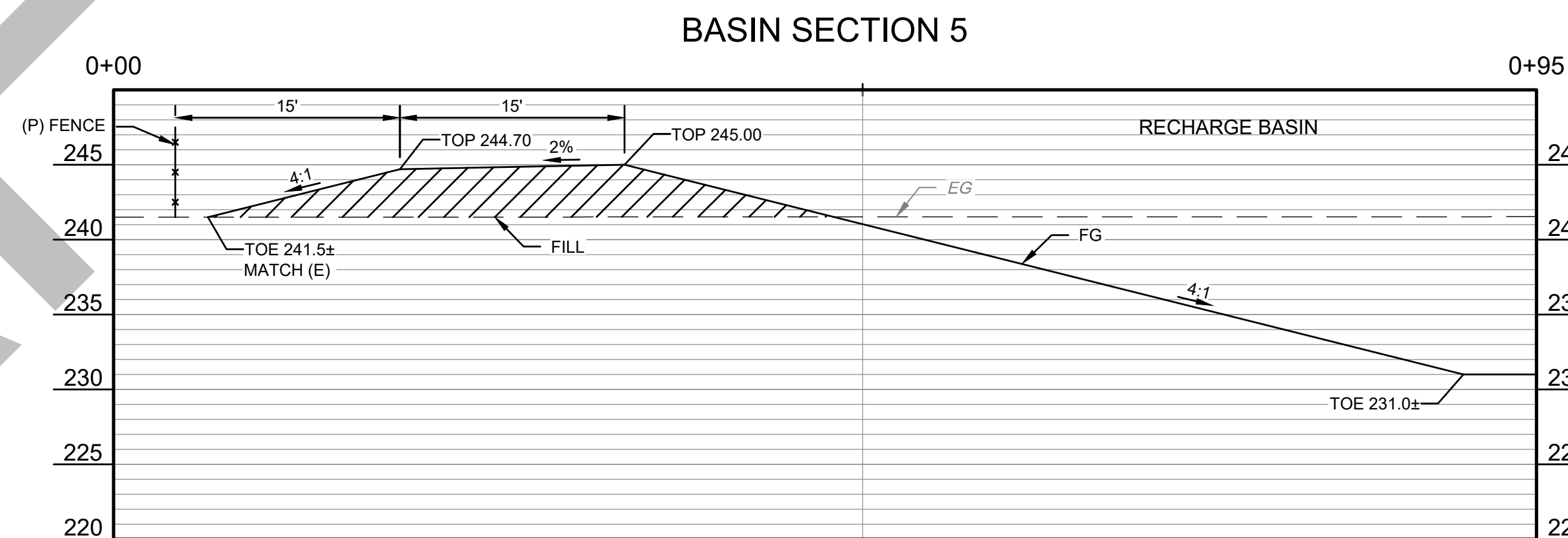


4
C-8

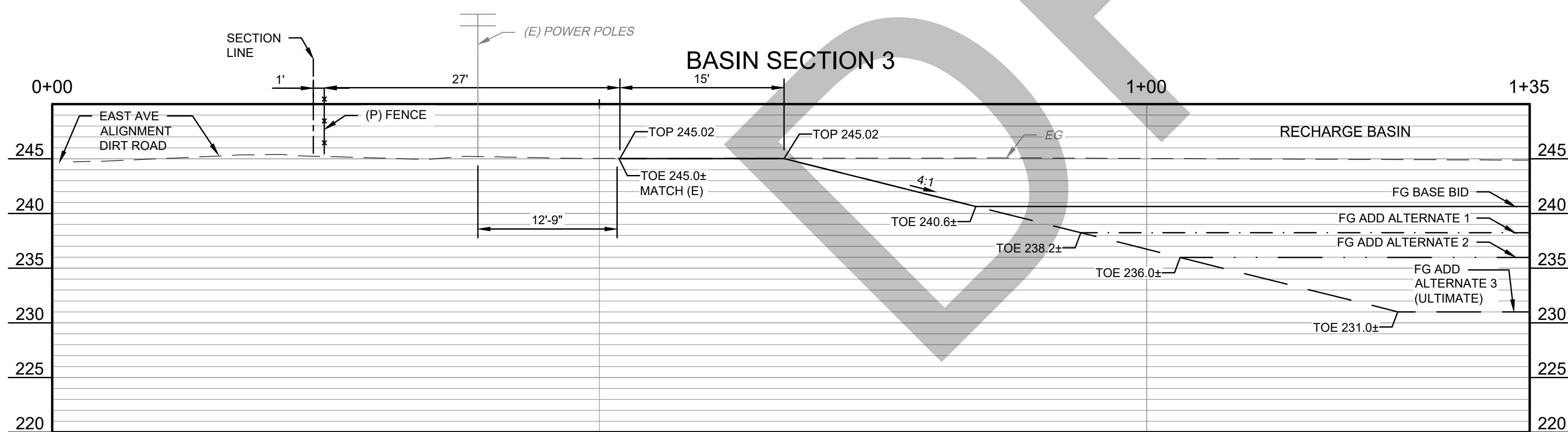


2
C-8

NOTE: PROPOSED FENCE TO BE LOCATED ON THE SOUTH SIDE OF EXISTING BIRD BOXES.



5
C-8



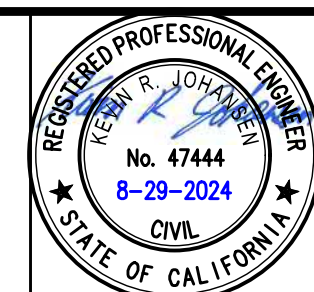
3
C-8

NOTE
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DESIGNED:	DATE	RECORD DRAWING		SCALE
KJ	8-29-2024	RESIDENT ENGINEER	DATE	
SG	8-29-2024			
KJ	8-29-2024			

SUPERVISING ENGINEER	DATE

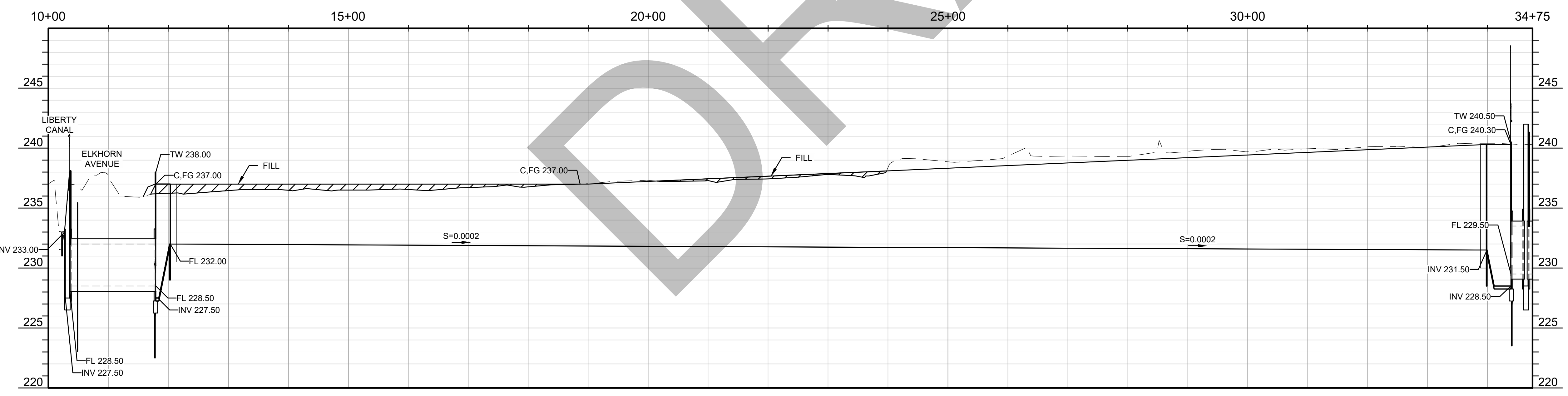
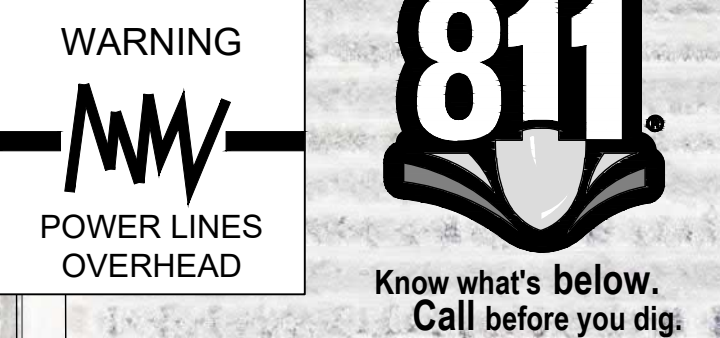
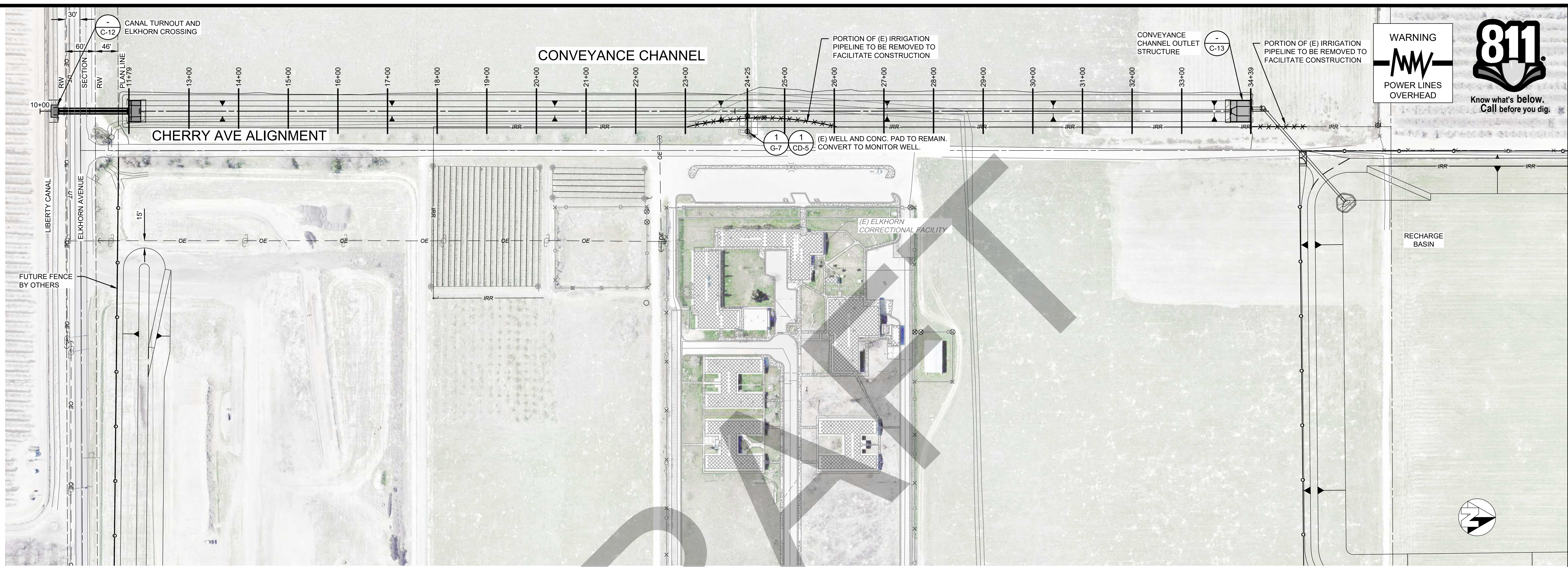


PROJECT	
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
GRADING BASIN SECTIONS		
DRAWING NO. 11330	SHEET NO. C-8	TOTAL 30

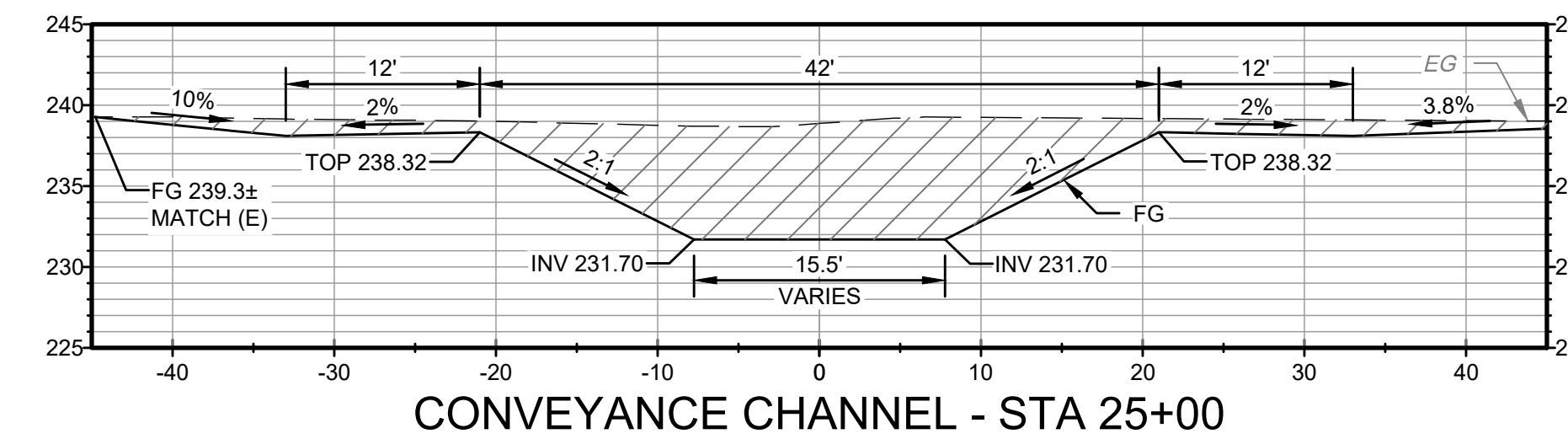
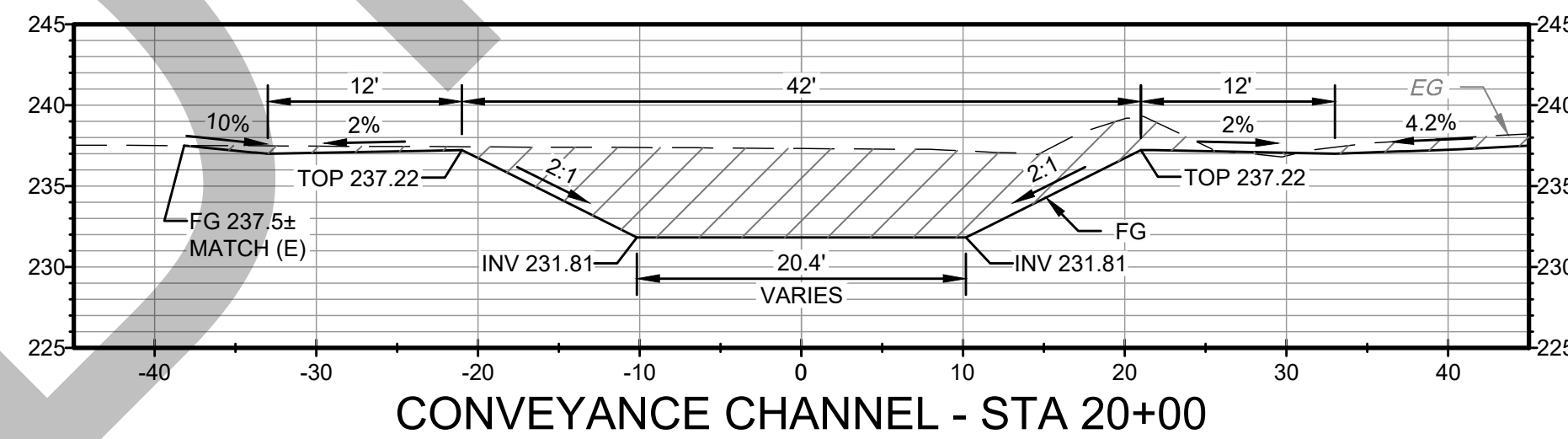
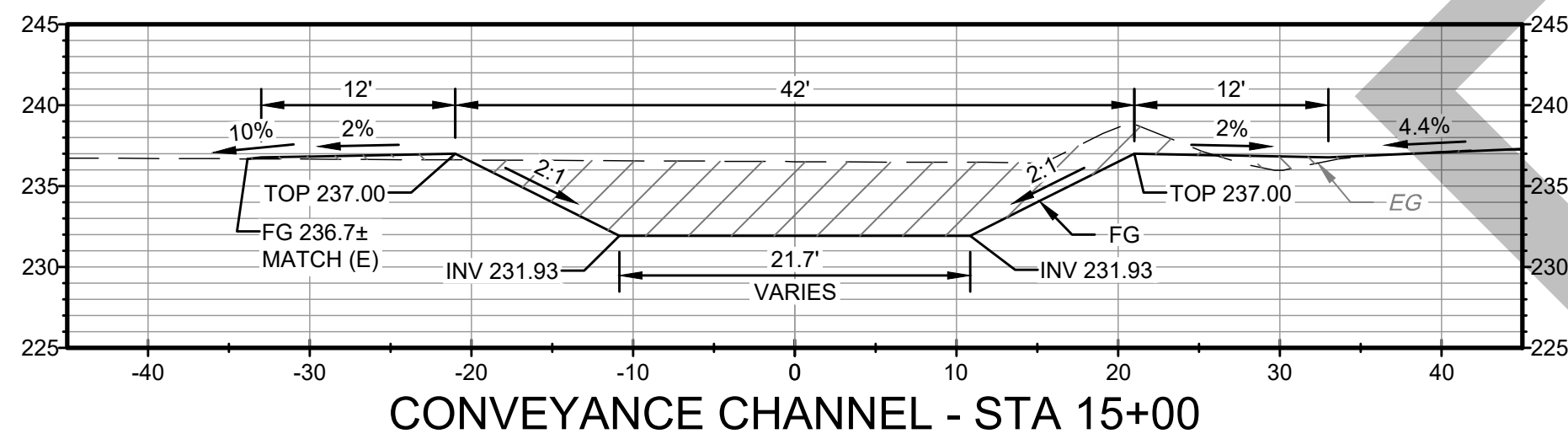
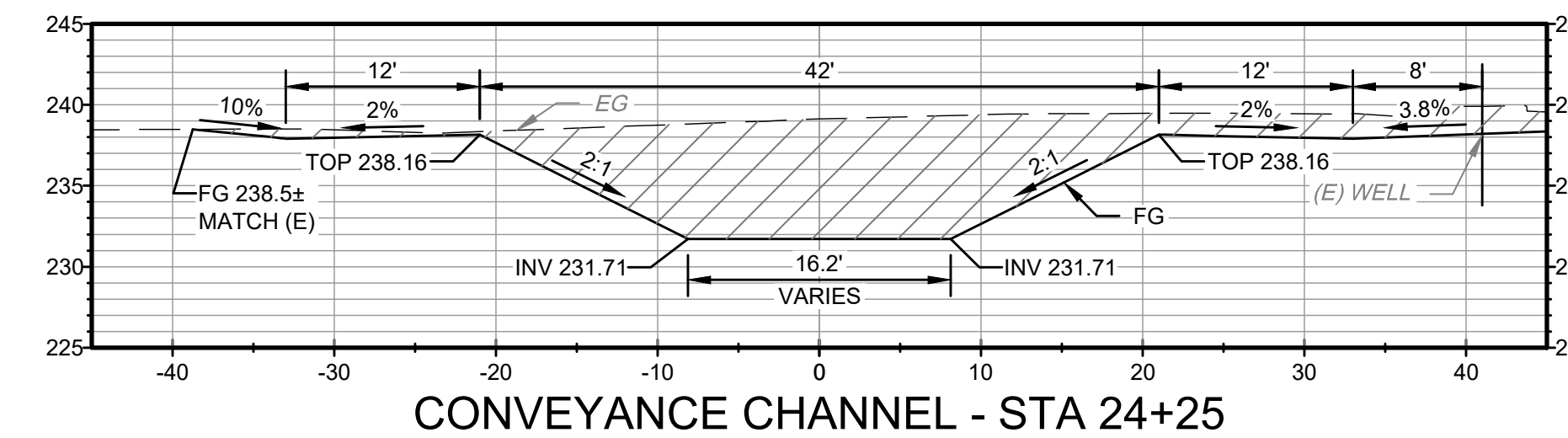
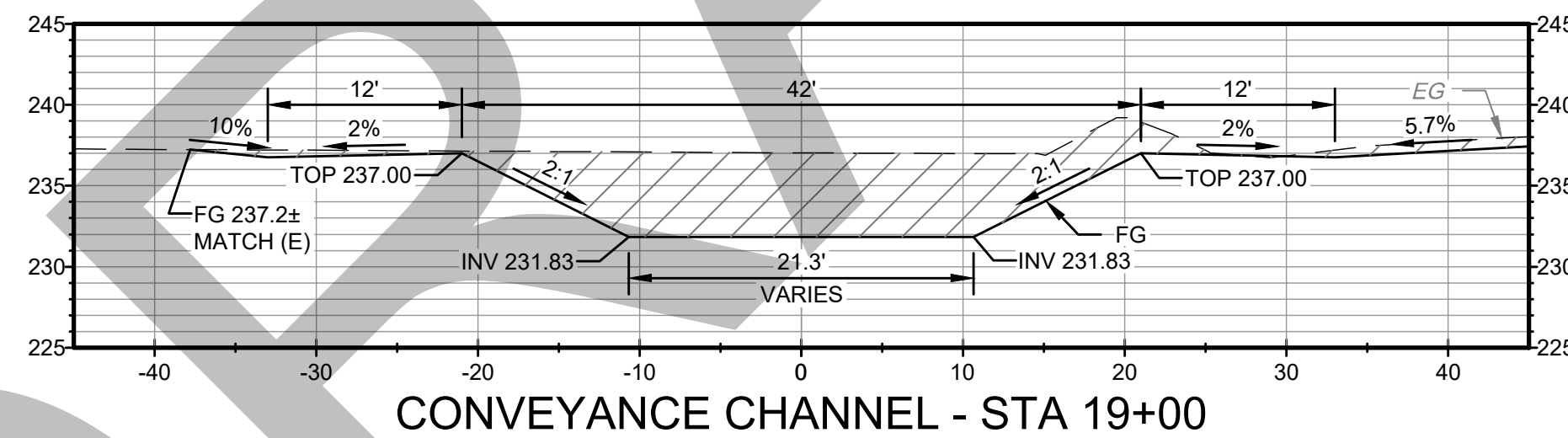
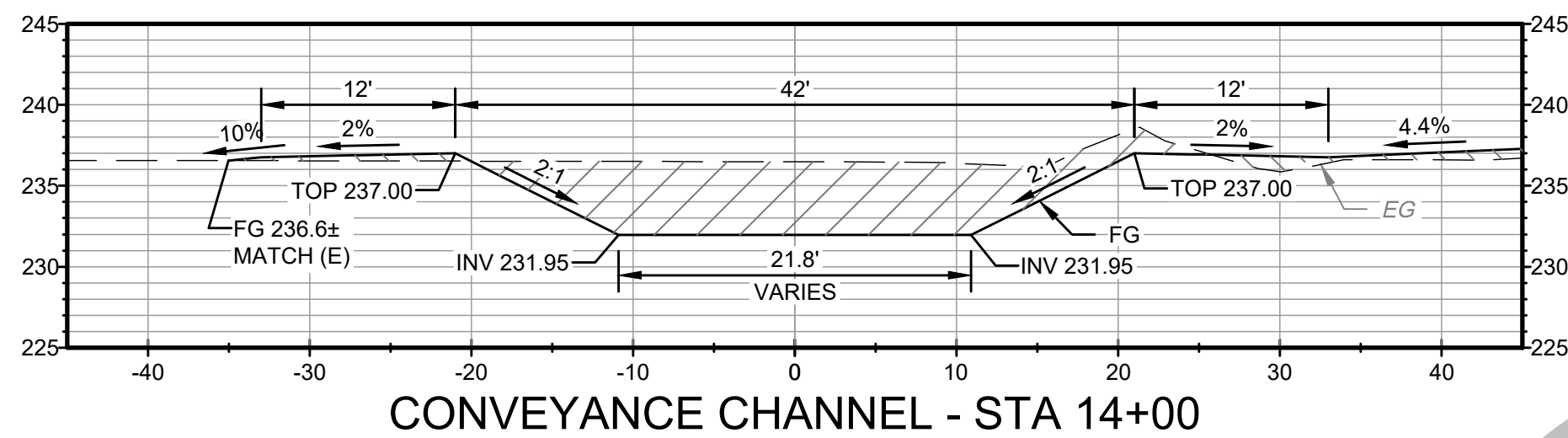
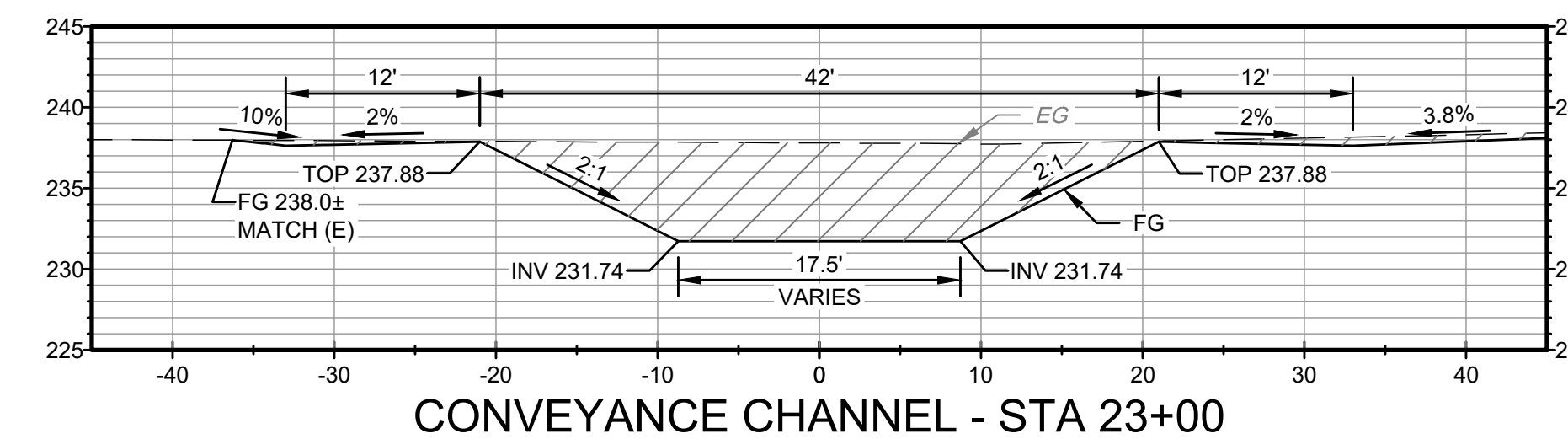
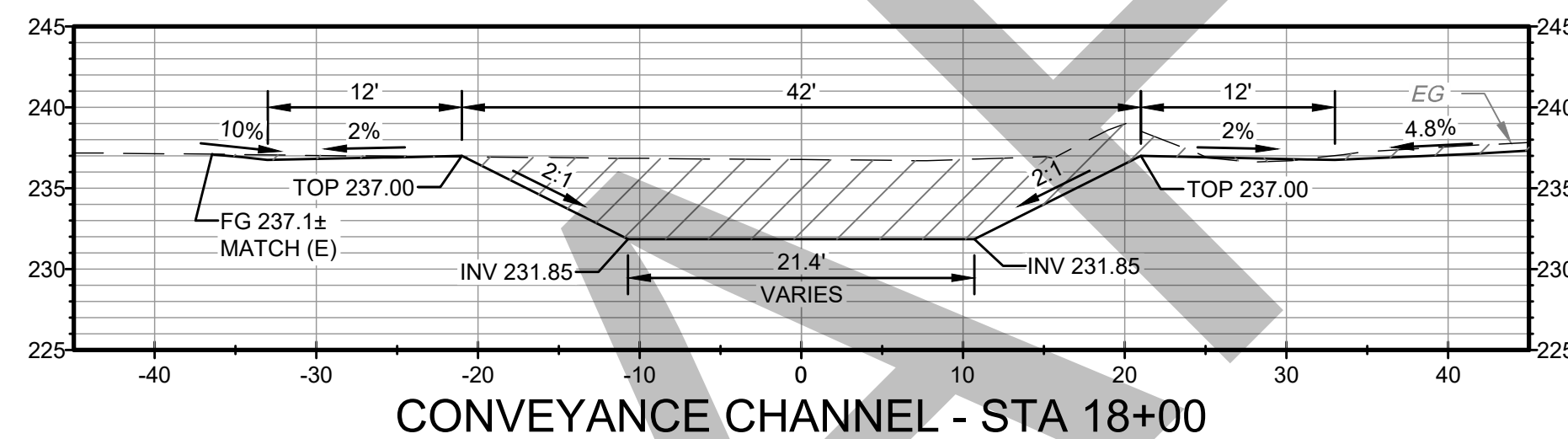
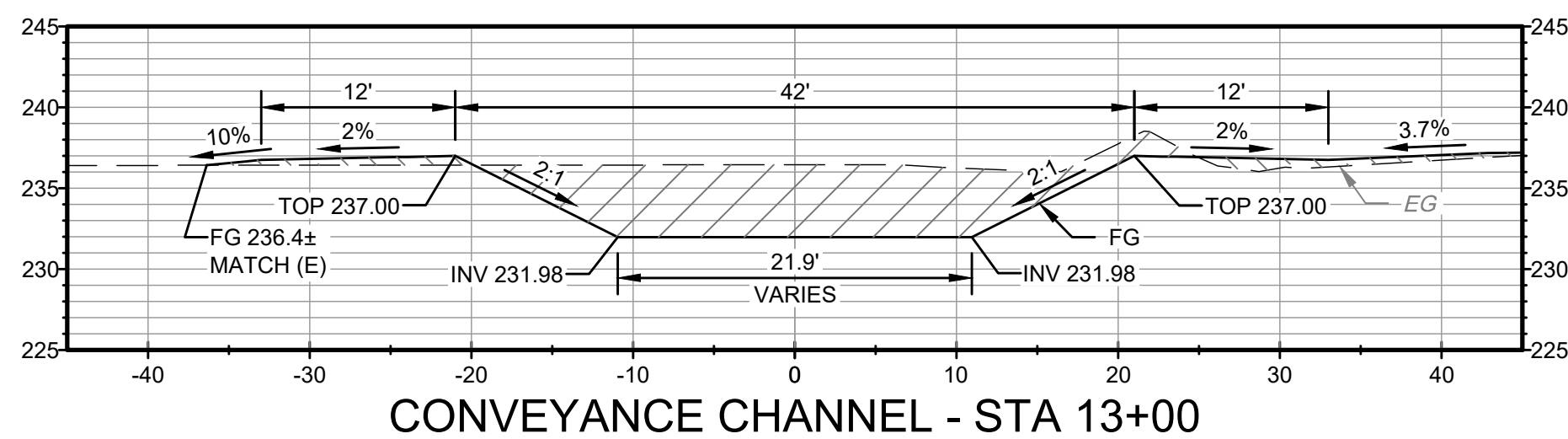
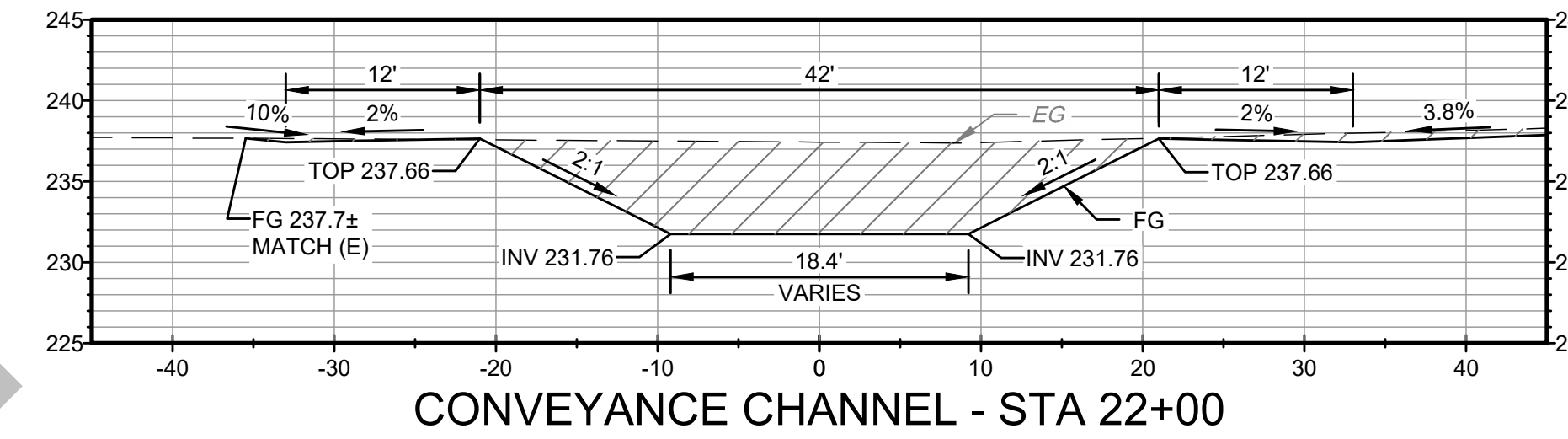
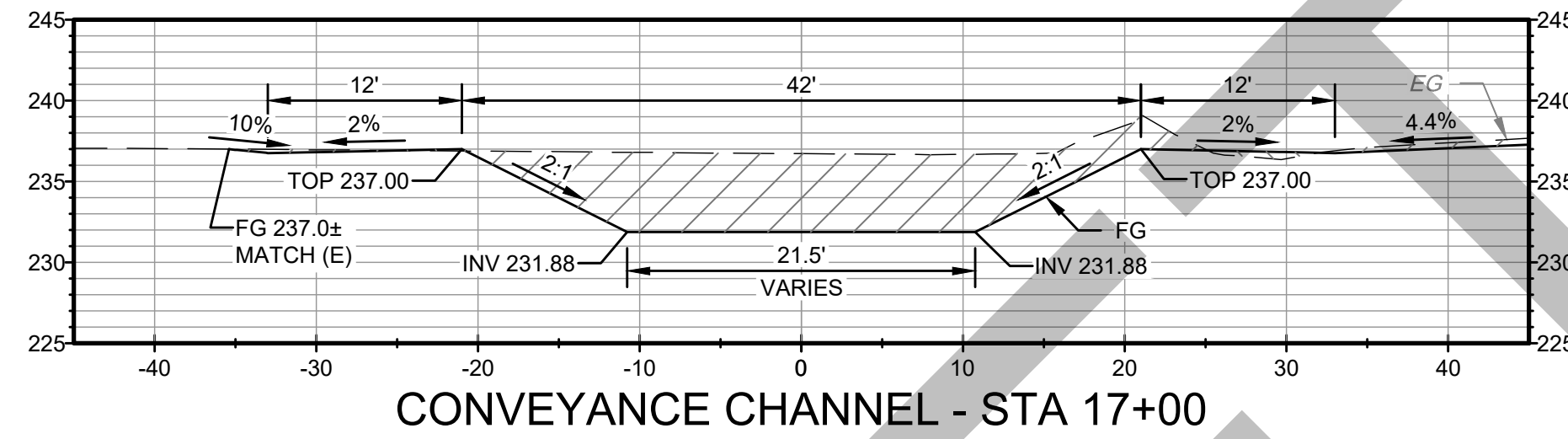
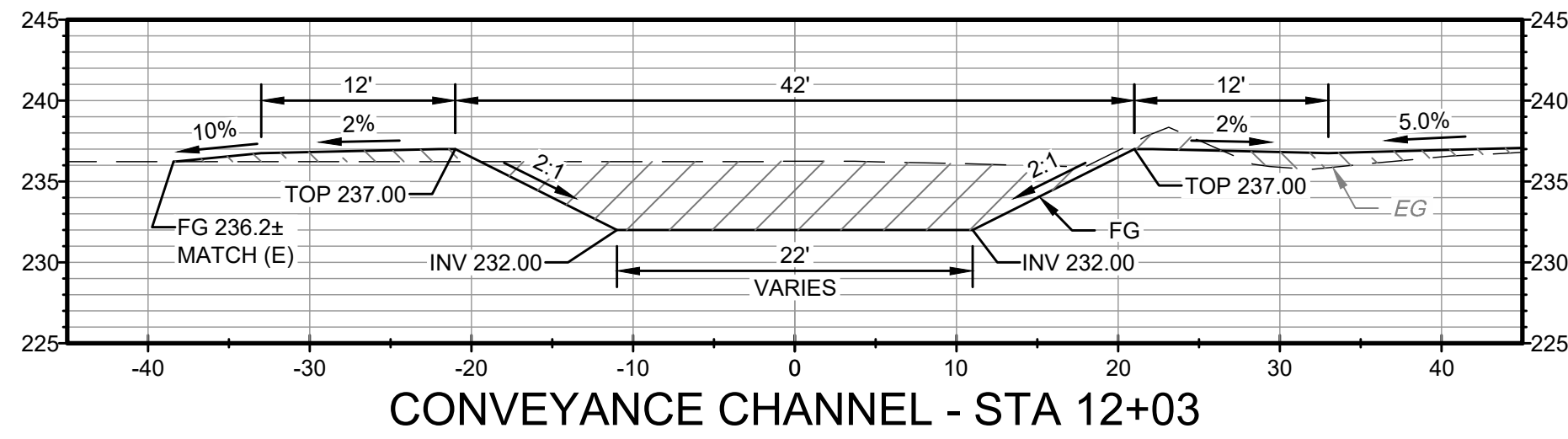
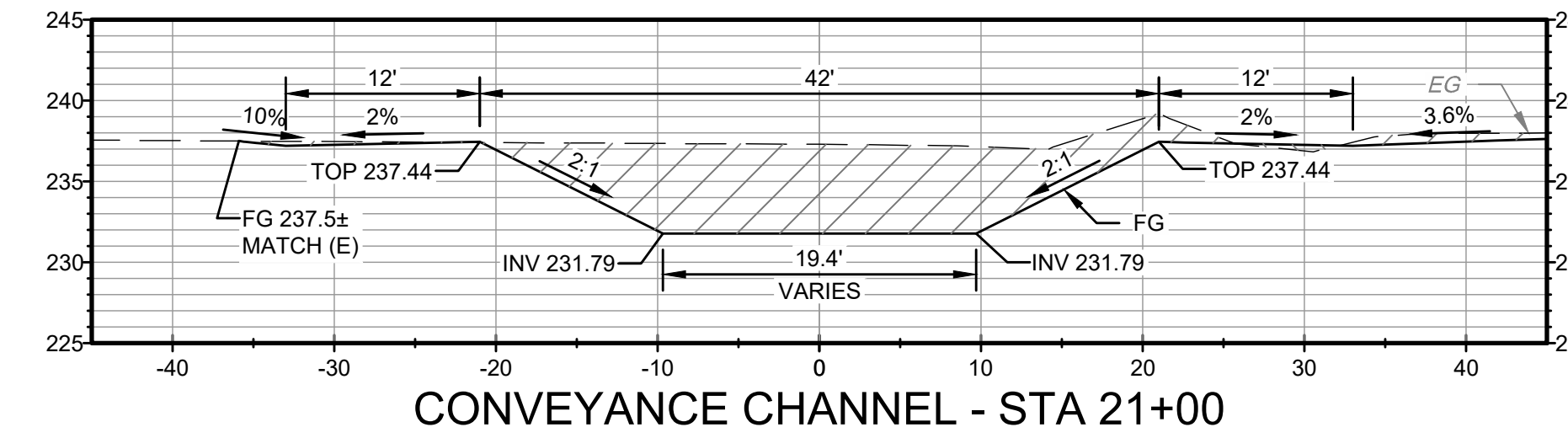
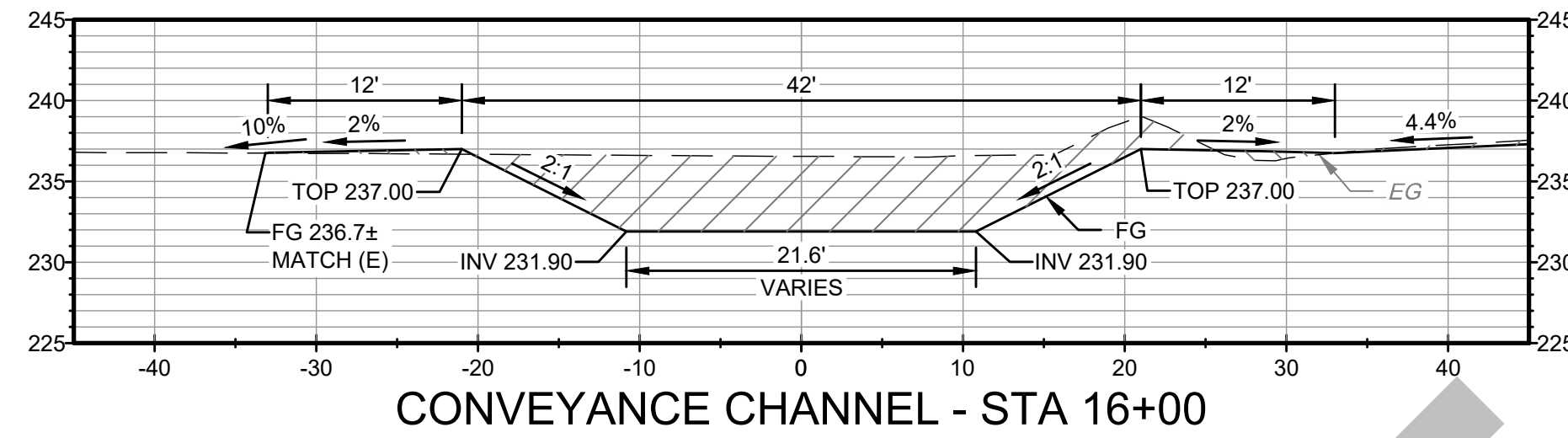
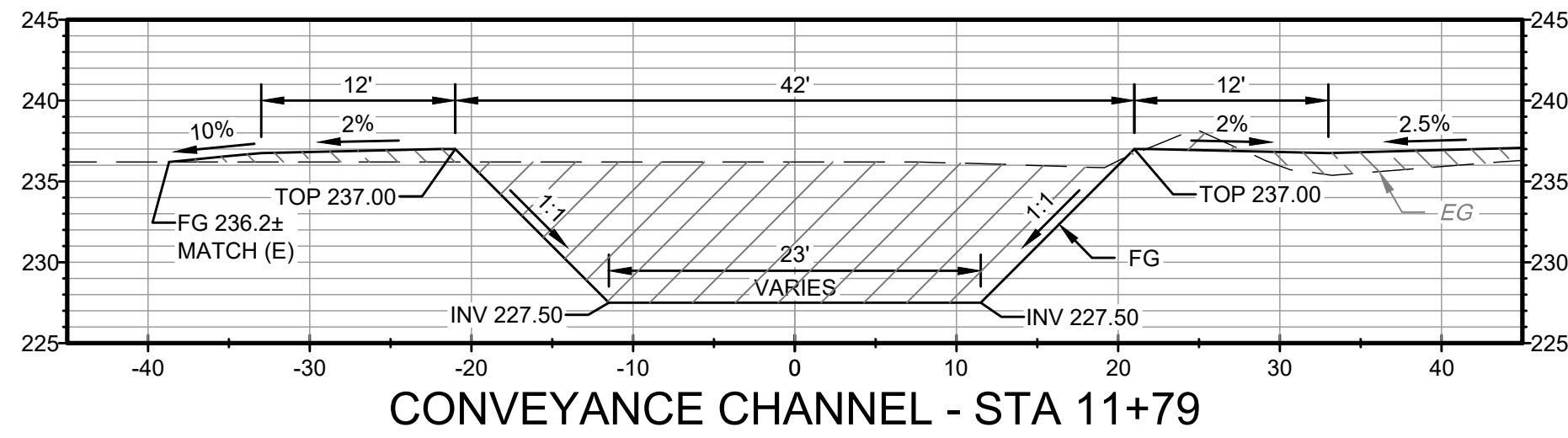
8/29/2024 11:03 AM g:\fresno_county\dl\1597139720104-elkhorn_rech\basin\301 CAD\301.dwg SHEET 01 OF 01 CIVIL C-8 GRADING BASIN SECTIONS.dwg Stephen Glazier



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8/29/2024 11:01 AM g:\fresno\county\dl\159715972014-elkhorn\rech\basin\39\CAD\340 sheet\sheet01 - CIVIL\CS CONVEYANCE CHANNEL PLAN & PROFILE.dwg Shripati Ghose

DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING		SCALE			PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING			
DRAWN: SG	DATE: 8-29-2024	RESIDENT ENGINEER	DATE	ELKHORN RECHARGE FACILITY			CONVEYANCE CHANNEL PLAN & PROFILE					
CHECKED: KJ	DATE: 8-29-2024			HWY 41 & ELKHORN AVE, FRESNO COUNTY								
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						SUPERVISING ENGINEER	DATE	ROAD NO.	BRIDGE NO.	DRAWING NO. 11330	SHEET NO. C-9	TOTAL 30



8/29/2024 11:02 AM g:\fresno\county\411971397\2024-elkhorn-rech\basin\30 CAD\CAD\CONVEYANCE CHANNEL SECTIONS.dwg - Stephen Schaez

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DESIGNED: KJ	DATE: 8-29-2024	RESIDENT ENGINEER	DATE
DRAWN: SG	8-29-2024		
CHECKED: KJ	8-29-2024		

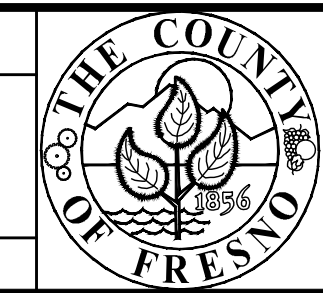
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

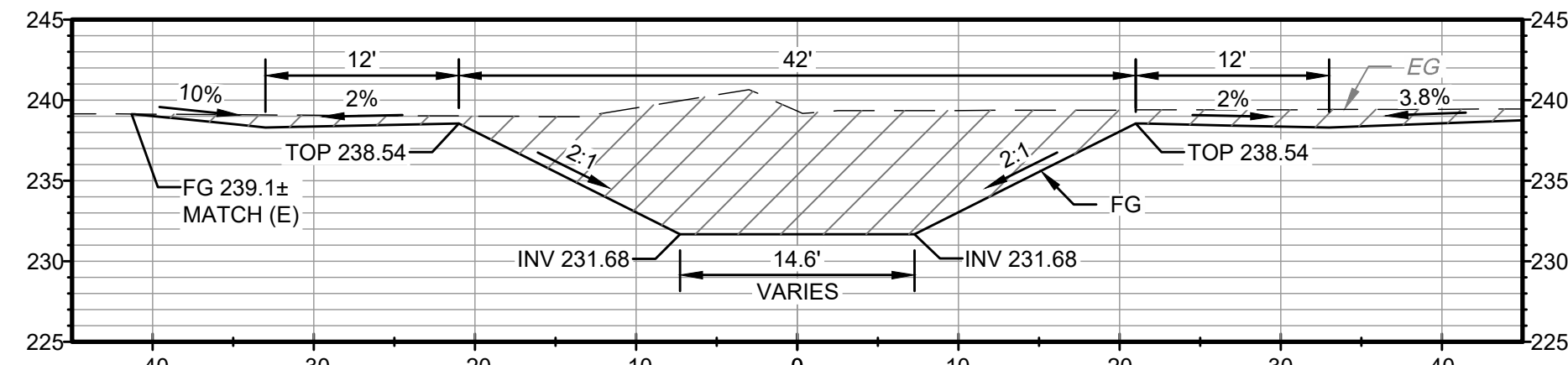
SUPERVISING ENGINEER	DATE



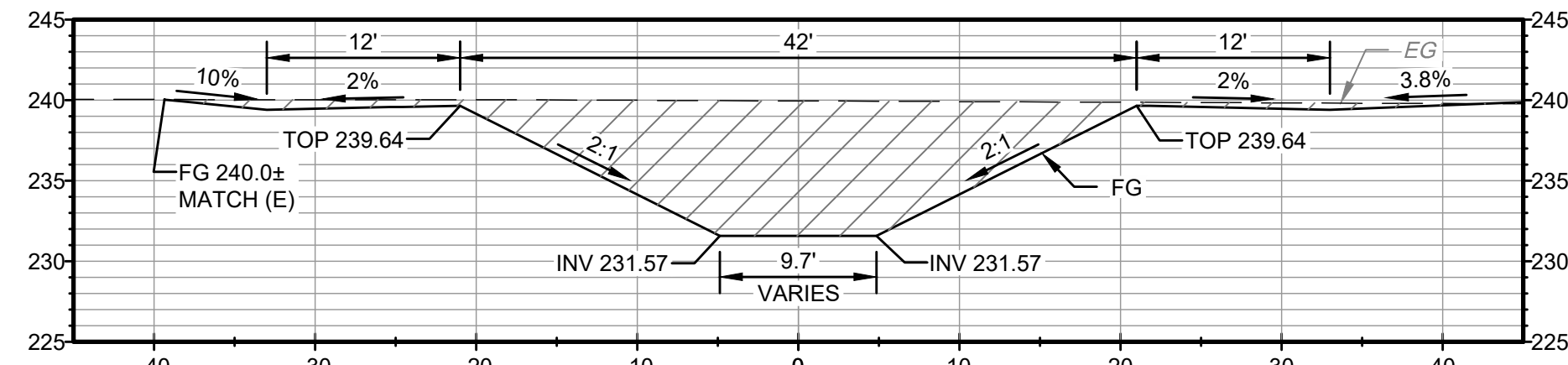
PROJECT
ELKHORN RECHARGE FACILITY
HWY 41 & ELKHORN AVE, FRESNO COUNTY
ROAD NO. BRIDGE NO.



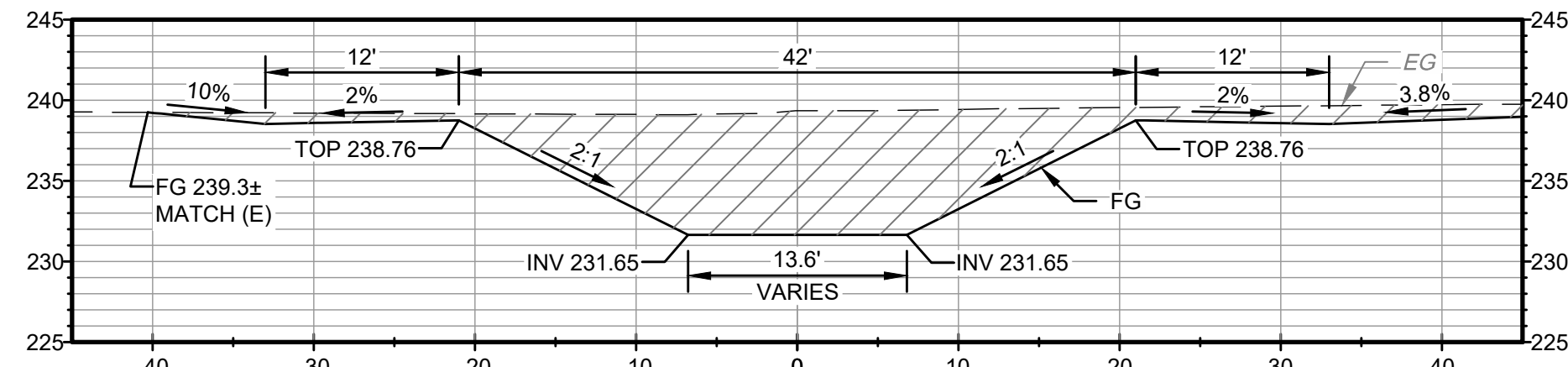
DEPARTMENT OF PUBLIC WORKS AND PLANNING
CONVEYANCE CHANNEL SECTIONS
DRAWING NO. 11330 SHEET NO. C-10 TOTAL 30



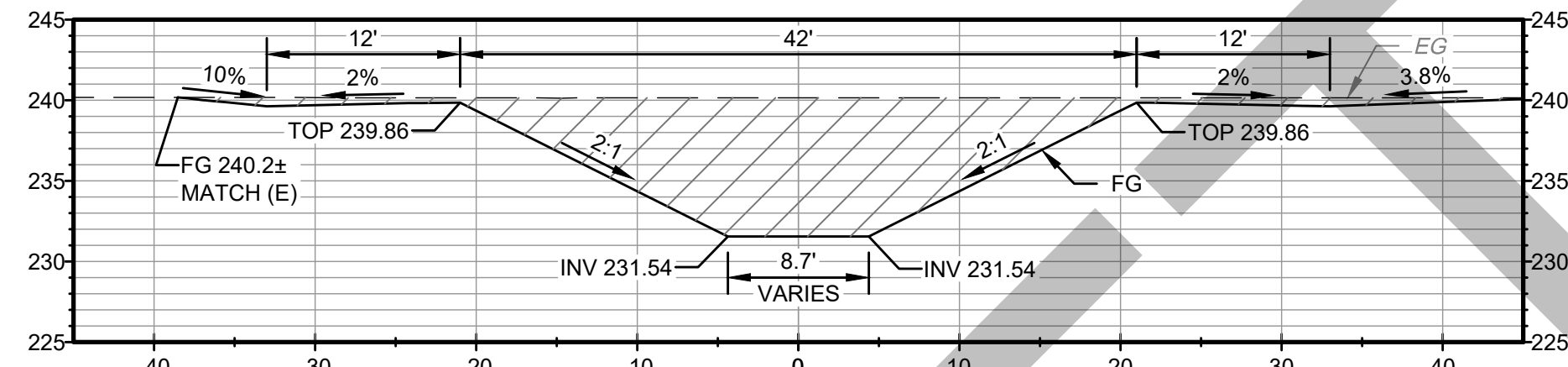
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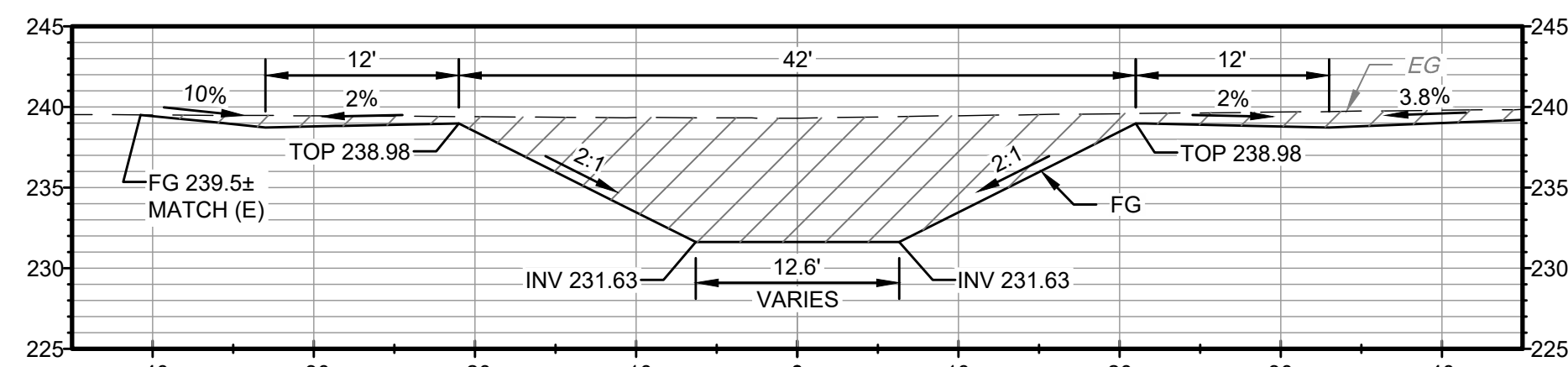
CONVEYANCE CHANNEL - STA 31+00



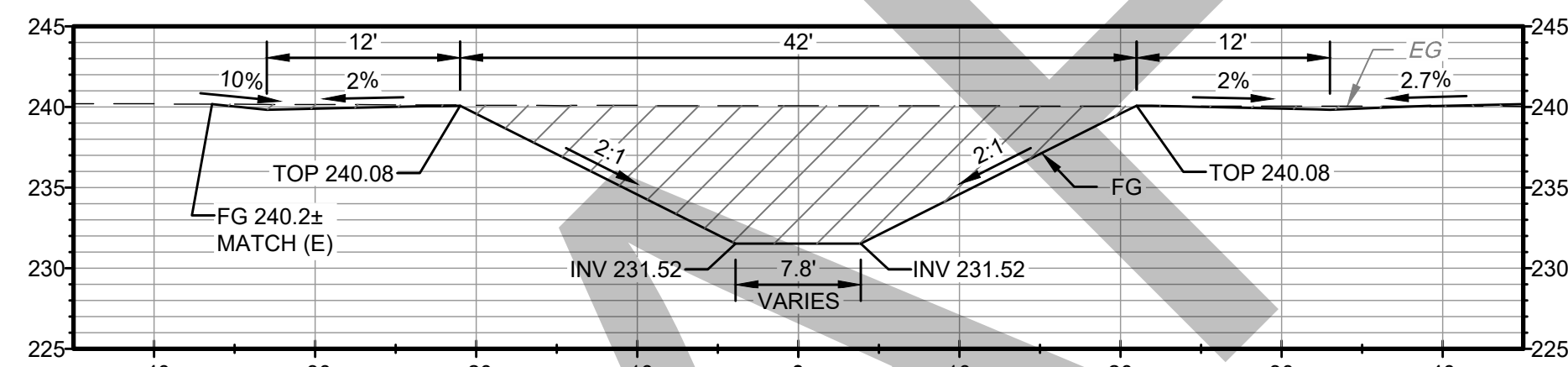
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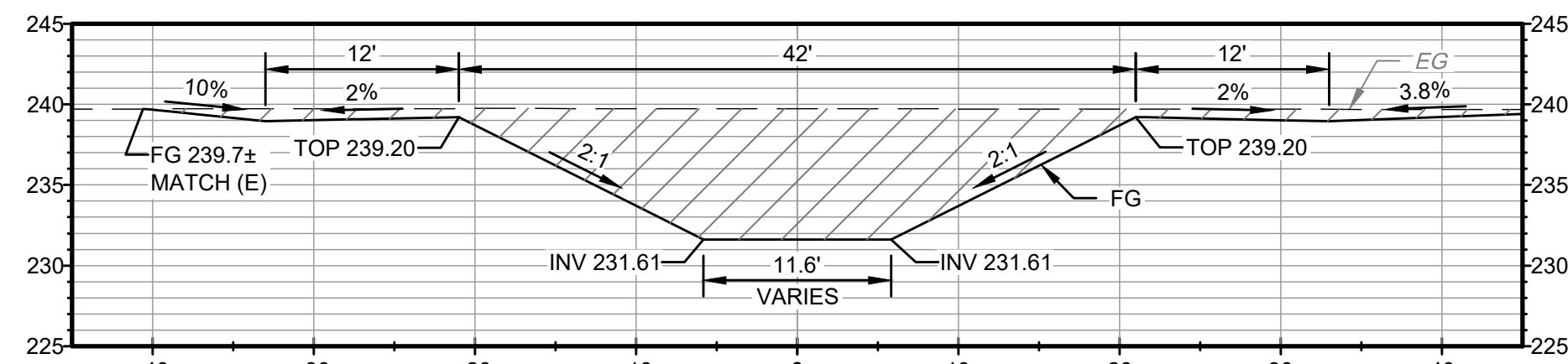
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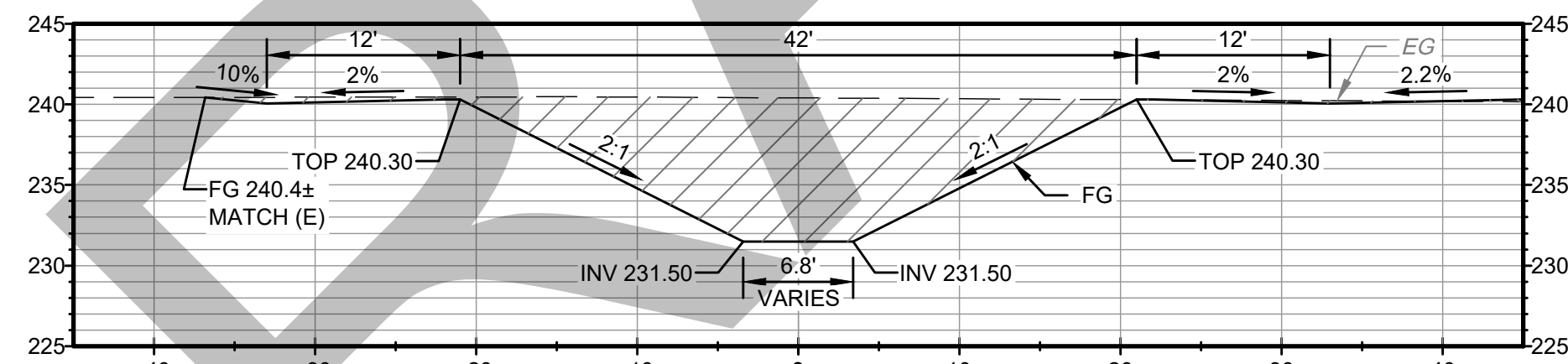
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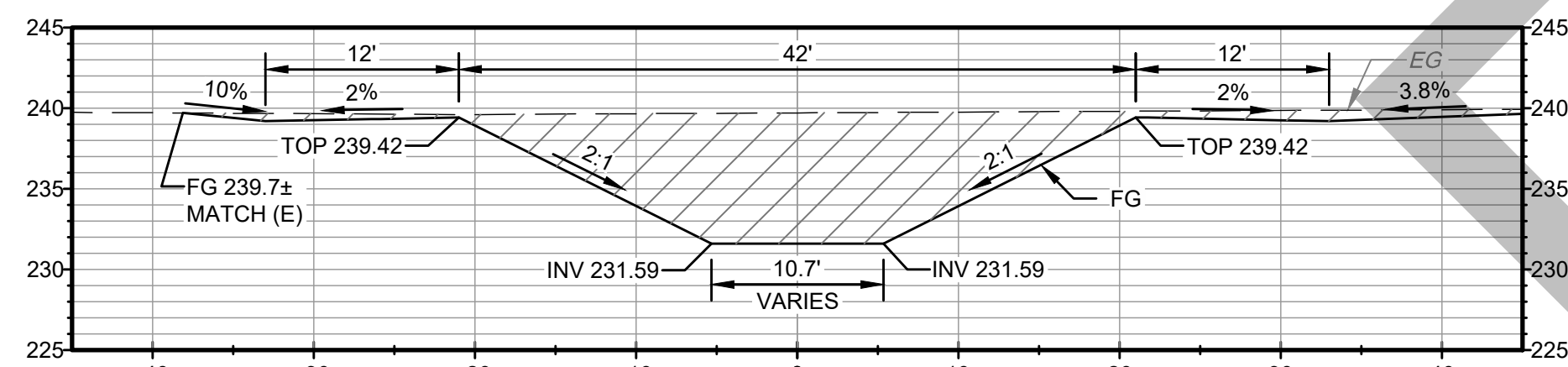
CONVEYANCE CHANNEL - STA 33+00



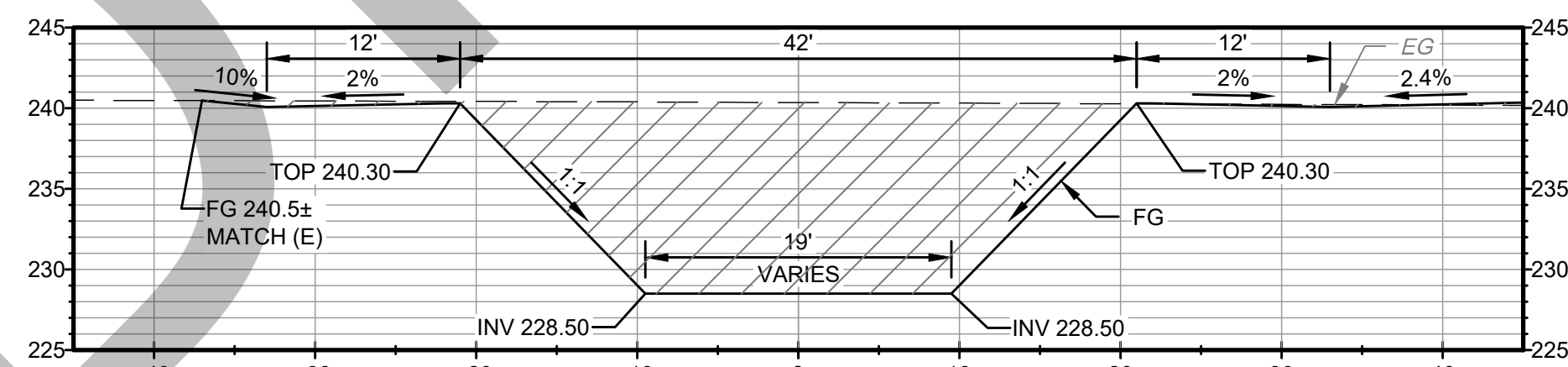
CONVEYANCE CHANNEL - STA 29+00



CONVEYANCE CHANNEL - STA 33+98



CONVEYANCE CHANNEL - STA 30+00



CONVEYANCE CHANNEL - STA 34+39

APPROXIMATE EARTHWORK VOLUMES		
STATION	FILL VOLUME (CY)	CUT VOLUME (CY)
11+79	0	0
12+03	22	182
13+00	66	492
14+00	53	536
15+00	39	557
16+00	22	578
17+00	12	604
18+00	6	632
19+00	2	675
20+00	1	719
21+00	4	707
22+00	3	678
23+00	0	691
24+25	0	1057
25+00	0	723
26+00	0	964
27+00	0	958
28+00	0	926
29+00	0	922
30+00	0	899
31+00	0	872
32+00	0	877
33+00	1	843
33+98	2	801
34+39	1	449

Conveyance Channel Earthwork			
Excavated CUT CY	In-Place Compacted Quantity CY	Estimated Consolidation Factor	NET CY
17,750	380	1.25	17,270

8/29/2024 11:02 AM g:\fresno\county\dl\159715972024-elkhorn\ch\basin30\CAD\340 channel section.dwg Stephen Chavez

DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING: RESIDENT ENGINEER	SCALE:
DRAWN: SG	8-29-2024		
CHECKED: KJ	8-29-2024		

SUPERVISING ENGINEER	DATE



PROJECT	
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.

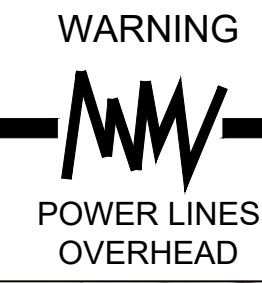


DEPARTMENT OF PUBLIC WORKS AND PLANNING		
CONVEYANCE CHANNEL SECTIONS		
DRAWING NO. 11330	SHEET NO. C-11	TOTAL 30

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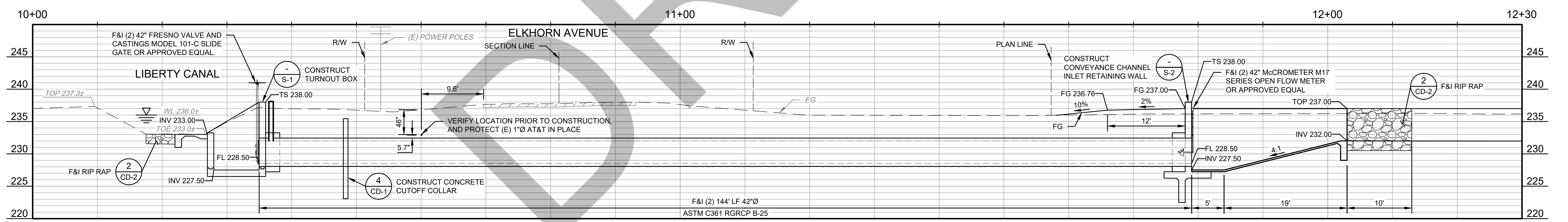
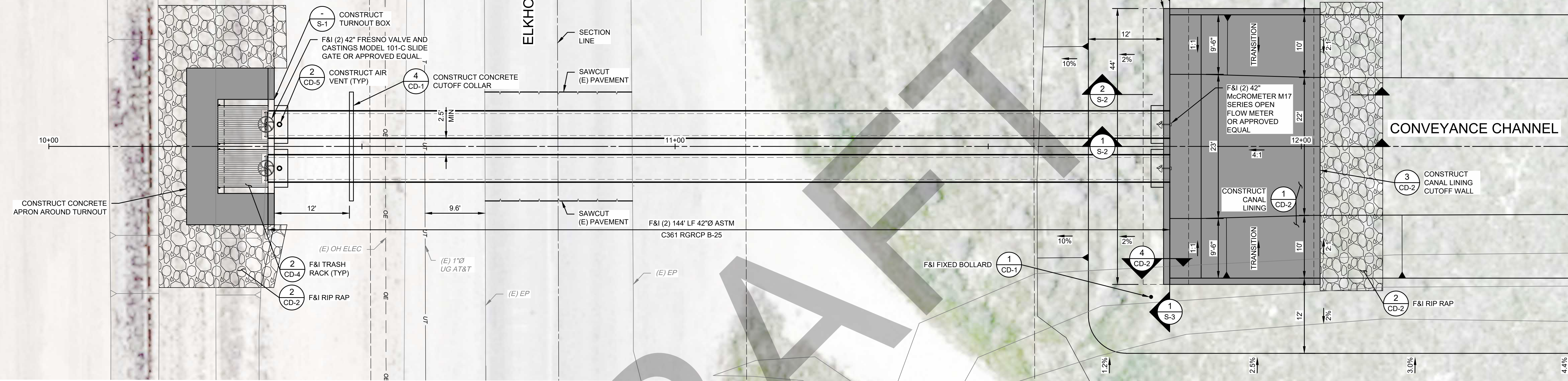
Know what's below.
Call before you dig.



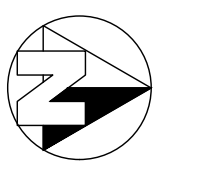
LIBERTY CANAL

ELKHORN AVENUE

PLAN LINE

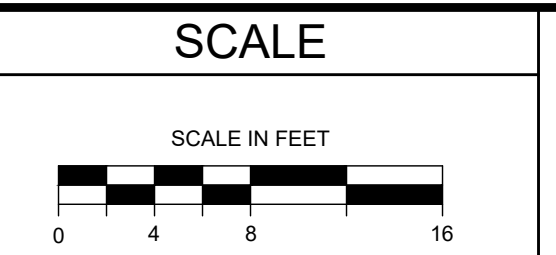


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DESIGNED: KJ	8-29-2024	RECORD DRAWING	DATE
DRAWN: SG	8-29-2024	RESIDENT ENGINEER	
CHECKED: KJ	8-29-2024		

DATE	8-29-2024	RECORD DRAWING	DATE
DESIGNED: KJ	8-29-2024	RESIDENT ENGINEER	
DRAWN: SG	8-29-2024		
CHECKED: KJ	8-29-2024		



SUPERVISING ENGINEER

DATE



PROJECT

ELKHORN RECHARGE FACILITY

HWY 41 & ELKHORN AVE, FRESNO COUNTY

ROAD NO. BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING

LIBERTY CANAL TURNOUT & ELKHORN CROSSING

DRAWING NO. 11330 SHEET NO. C-12 TOTAL 30

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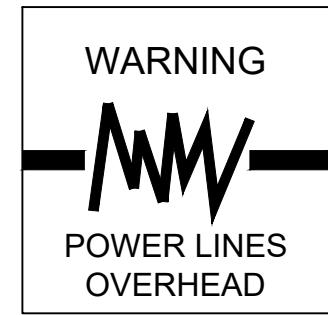
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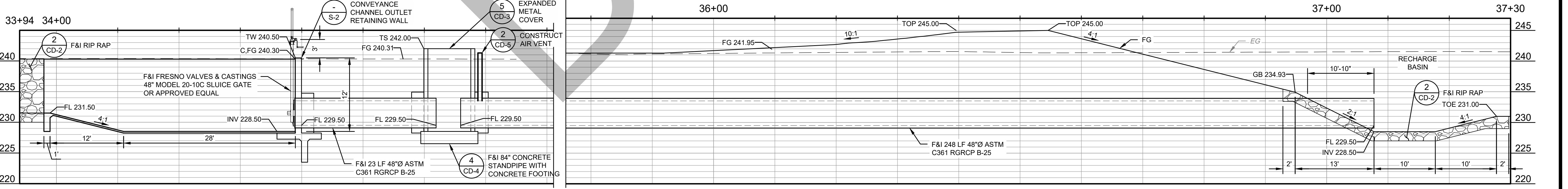
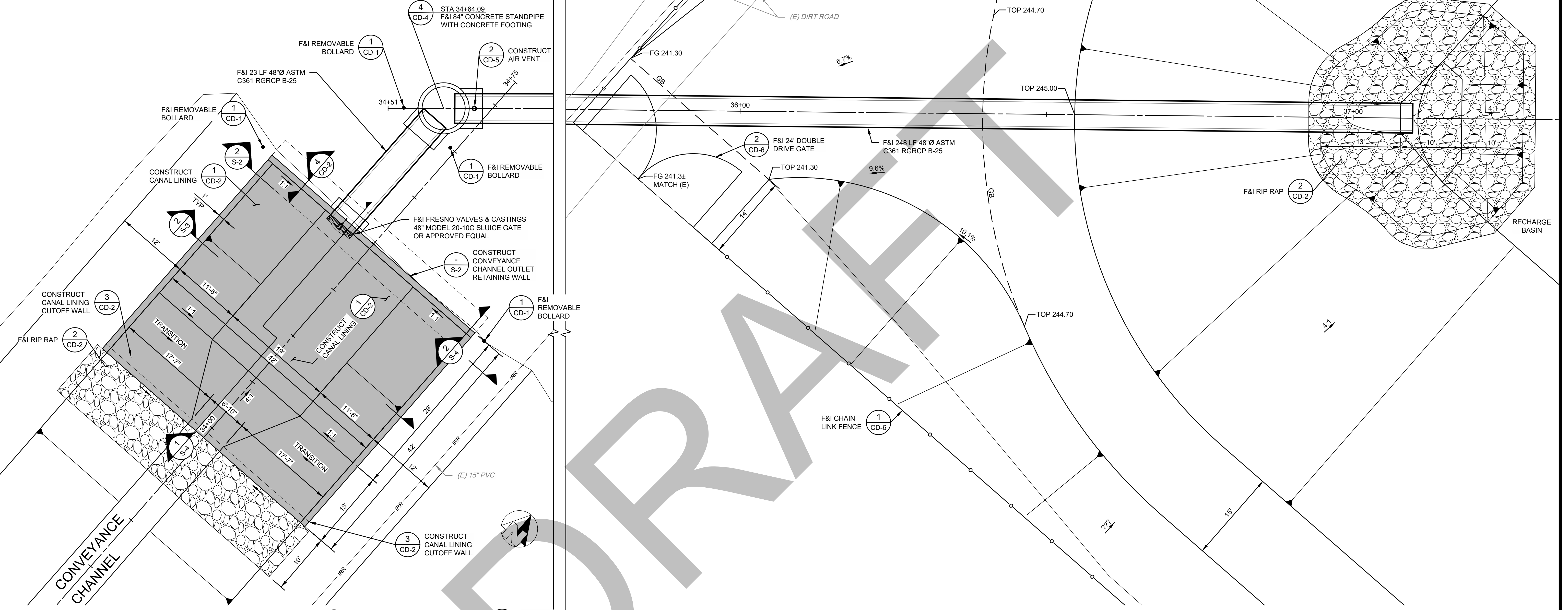
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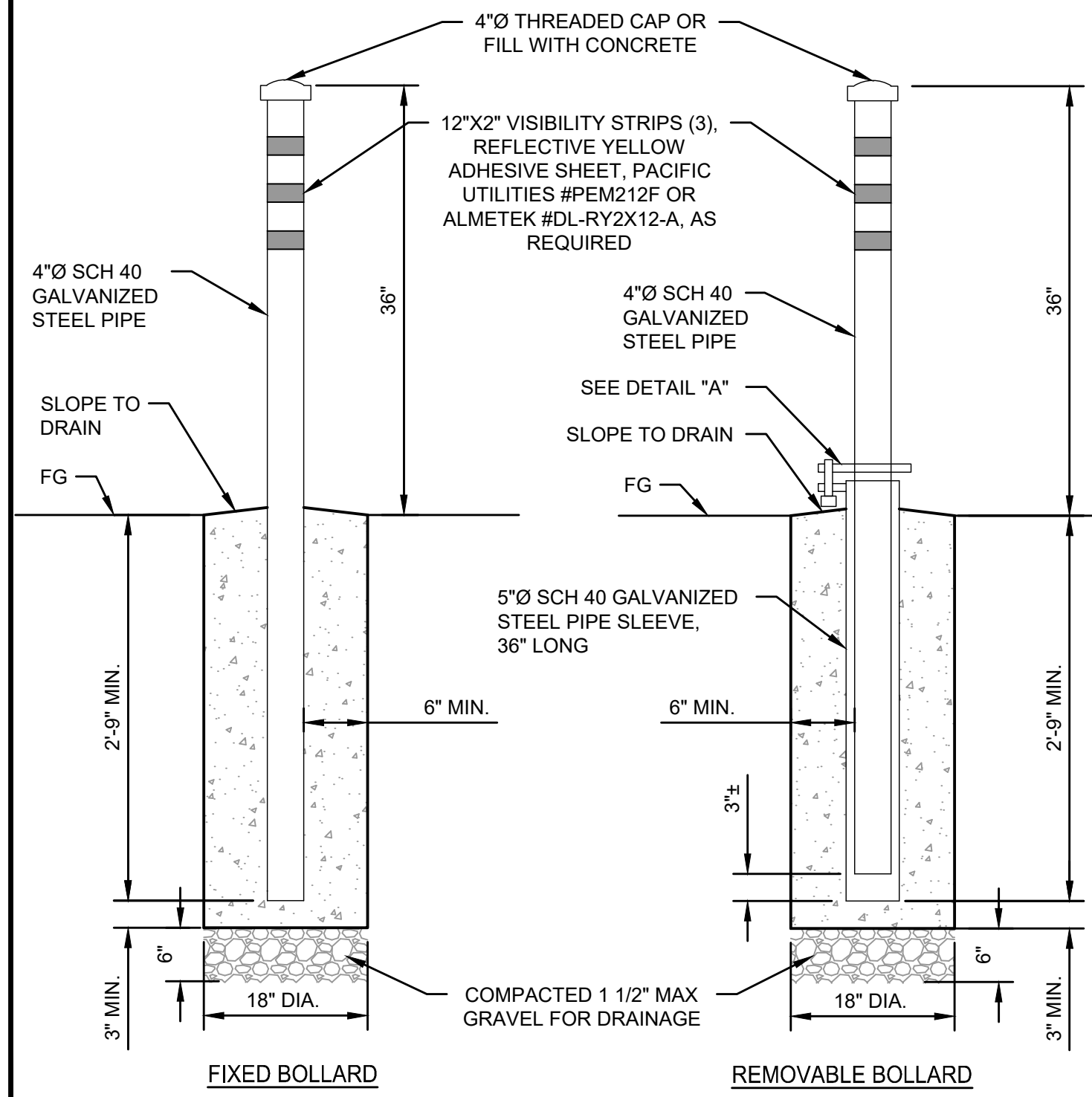
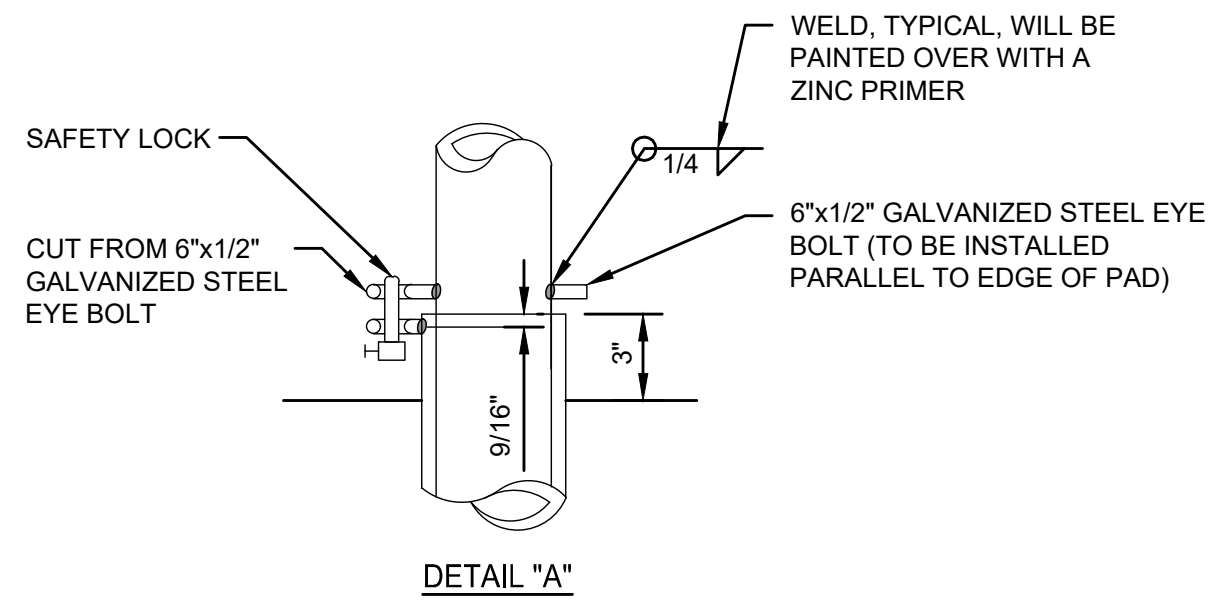
Know what's below.
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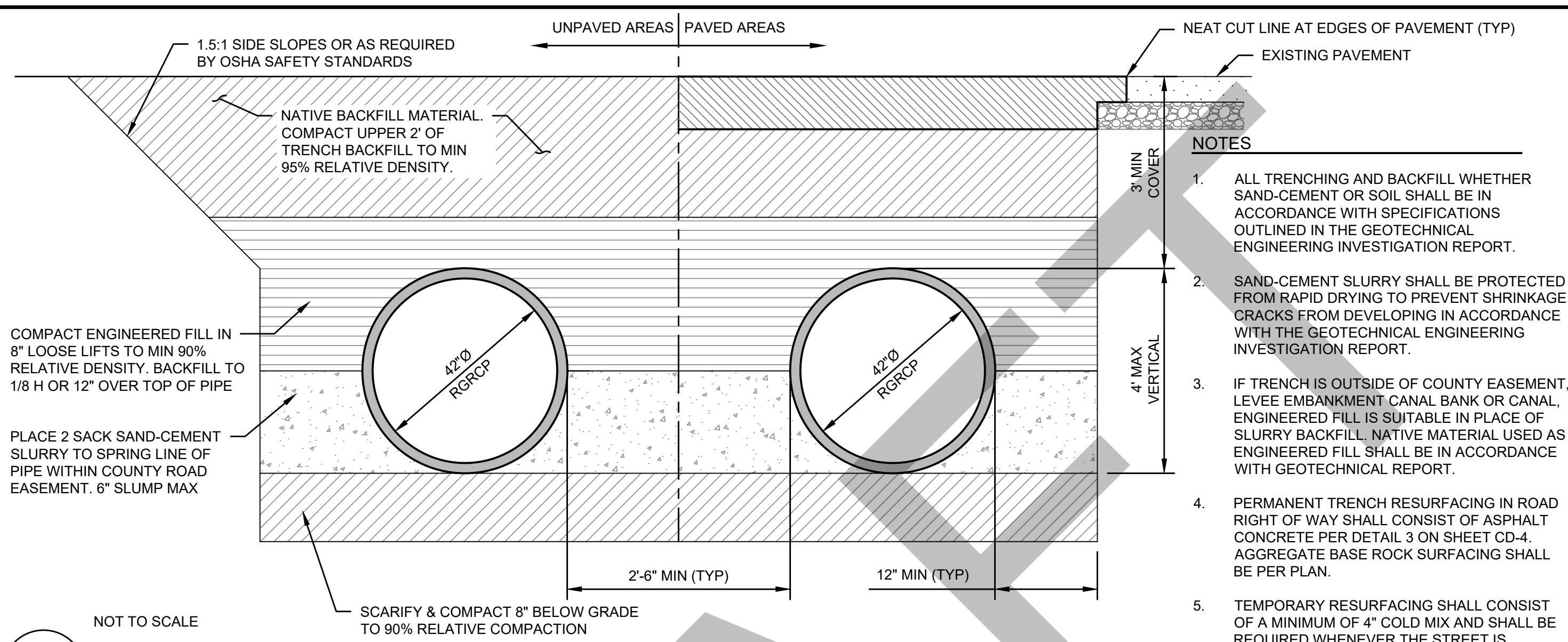
8/29/2024 11:03 AM g:\fresno\county\dl\1597159720\44-albom\mch\basin\33\CD\13 CONVEYANCE CHANNEL OUTLET & BASIN INLET.dwg - Shripati Ghosh



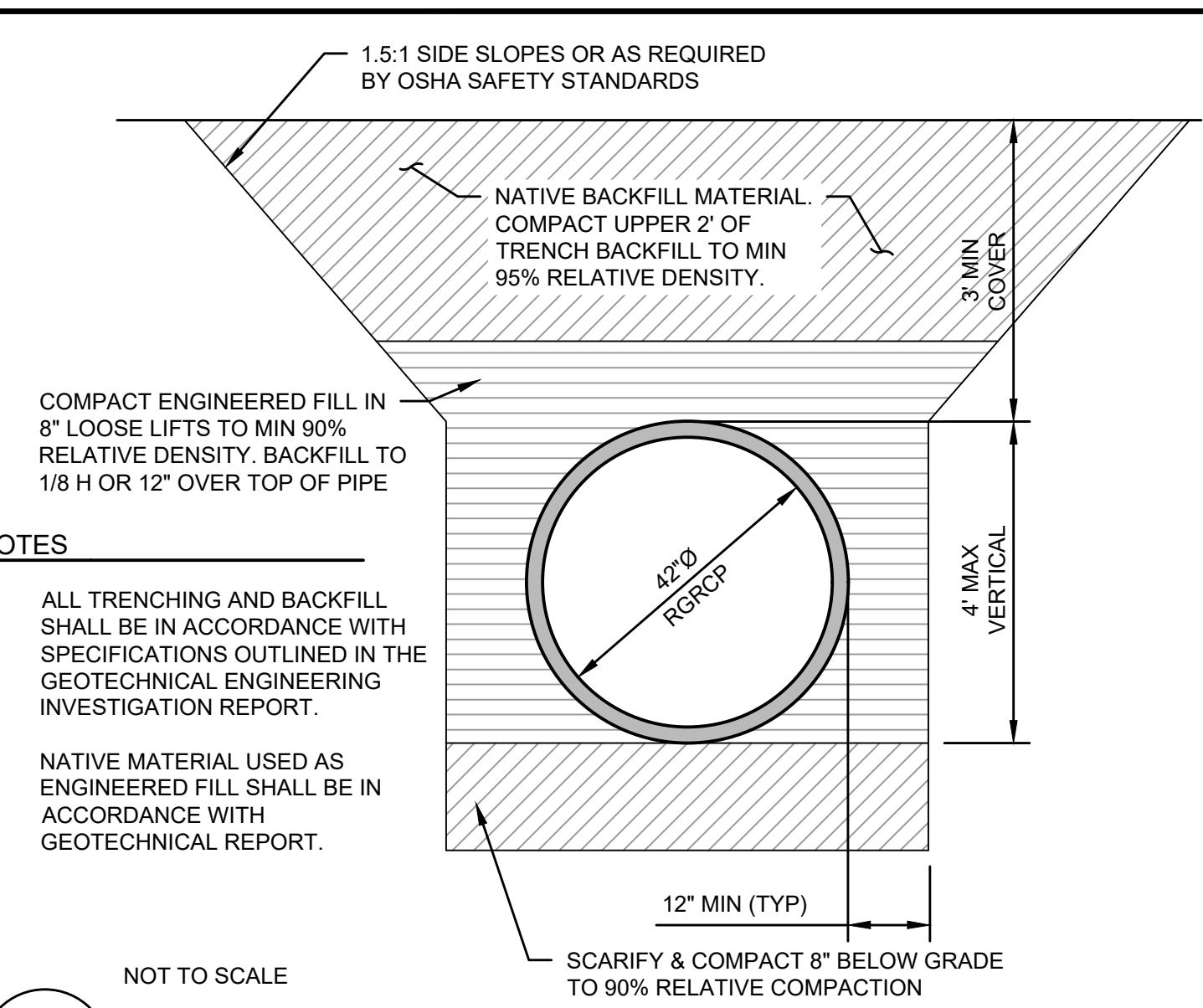
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DRAWN: SG		DATE: 8-29-2024		RESIDENT ENGINEER		SCALE IN FEET		ELKHORN RECHARGE FACILITY		CONVEYANCE CHANNEL OUTLET & BASIN INLET	
CHECKED: KJ		DATE: 8-29-2024		DATE		0 4 8 16		HWY 41 & ELKHORN AVE, FRESNO COUNTY		DRAWING NO. 11330 SHEET NO. C-13 TOTAL 30	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				SUPERVISING ENGINEER		DATE		ROAD NO. BRIDGE NO.		COUNTY OF FRESNO	



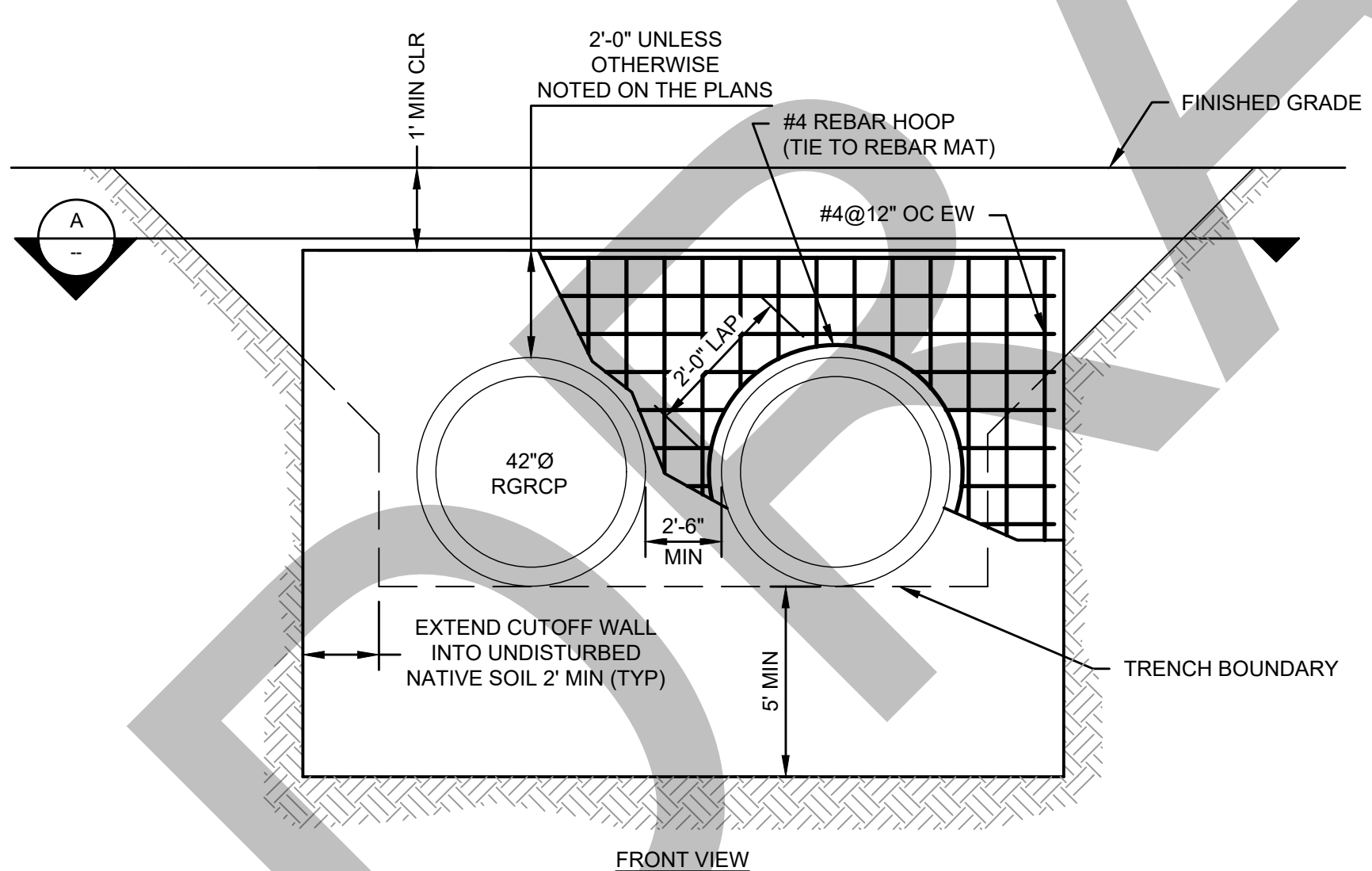
1
CD-1
BOLLARD



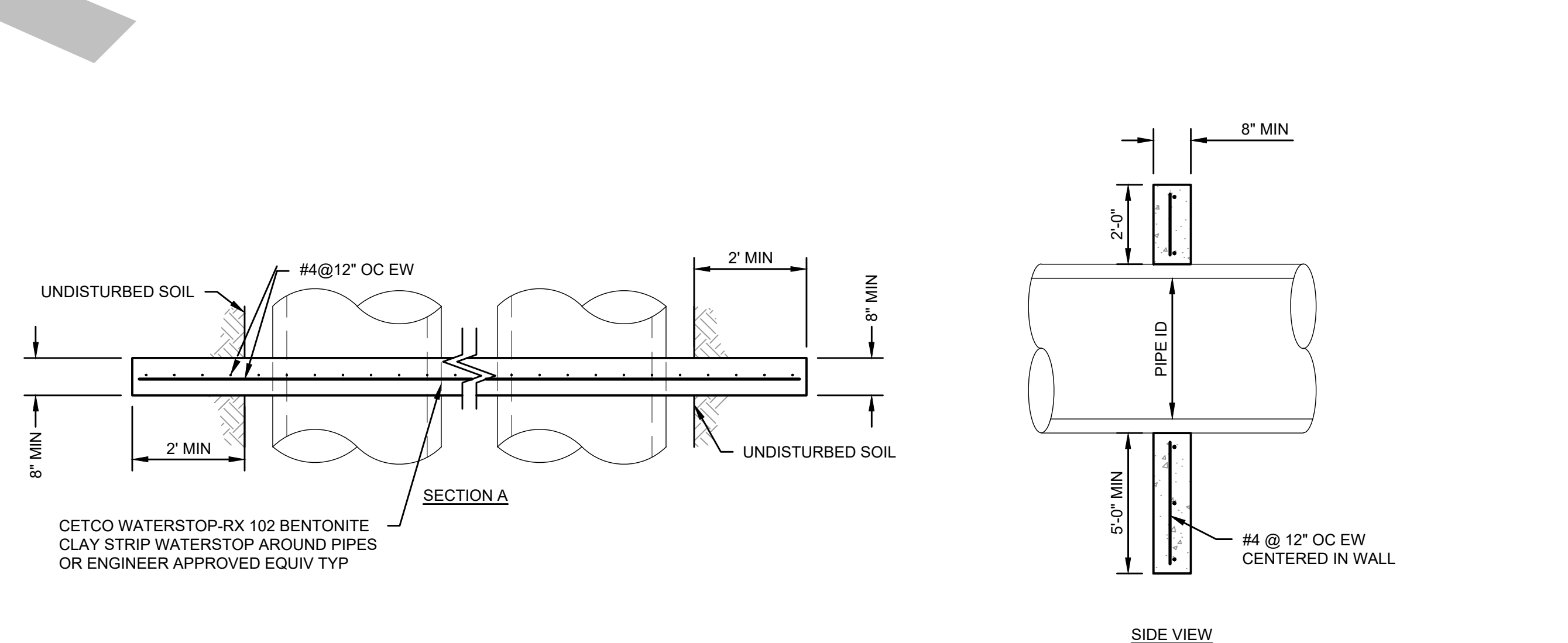
2
CD-1
TYPICAL DOUBLE PIPE TRENCH DETAIL



3
CD-1
TYPICAL SINGLE PIPE TRENCH DETAIL



4
CD-1
CONCRETE CUTOFF COLLAR



CONCRETE CUTOFF COLLAR

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DESIGNED:	DATE	RECORD DRAWING		SCALE
KJ	8-29-2024	RESIDENT ENGINEER	DATE	
SG	8-29-2024			
KJ	8-29-2024			

PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
ELKHORN RECHARGE FACILITY	CONSTRUCTION DETAILS
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



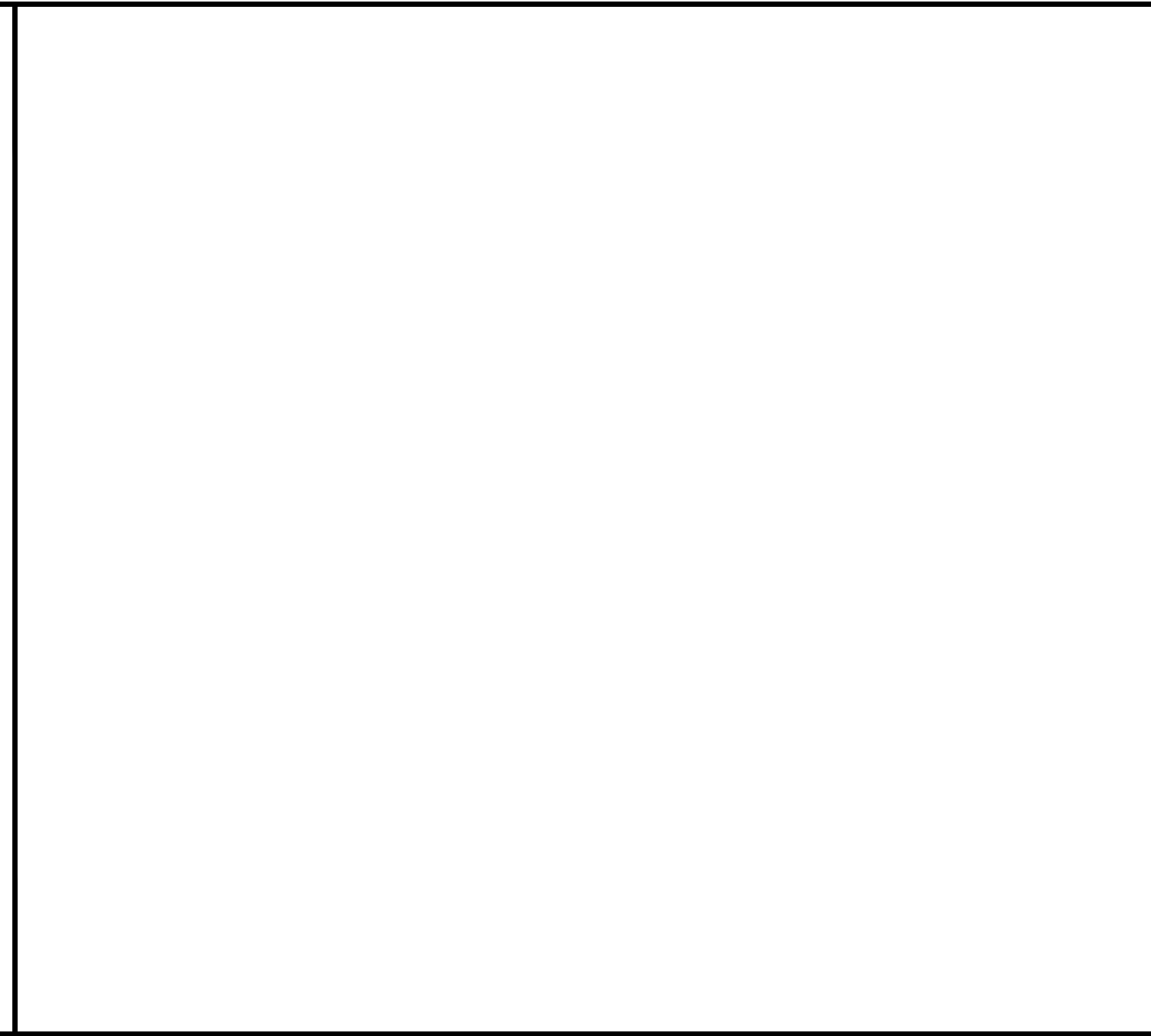
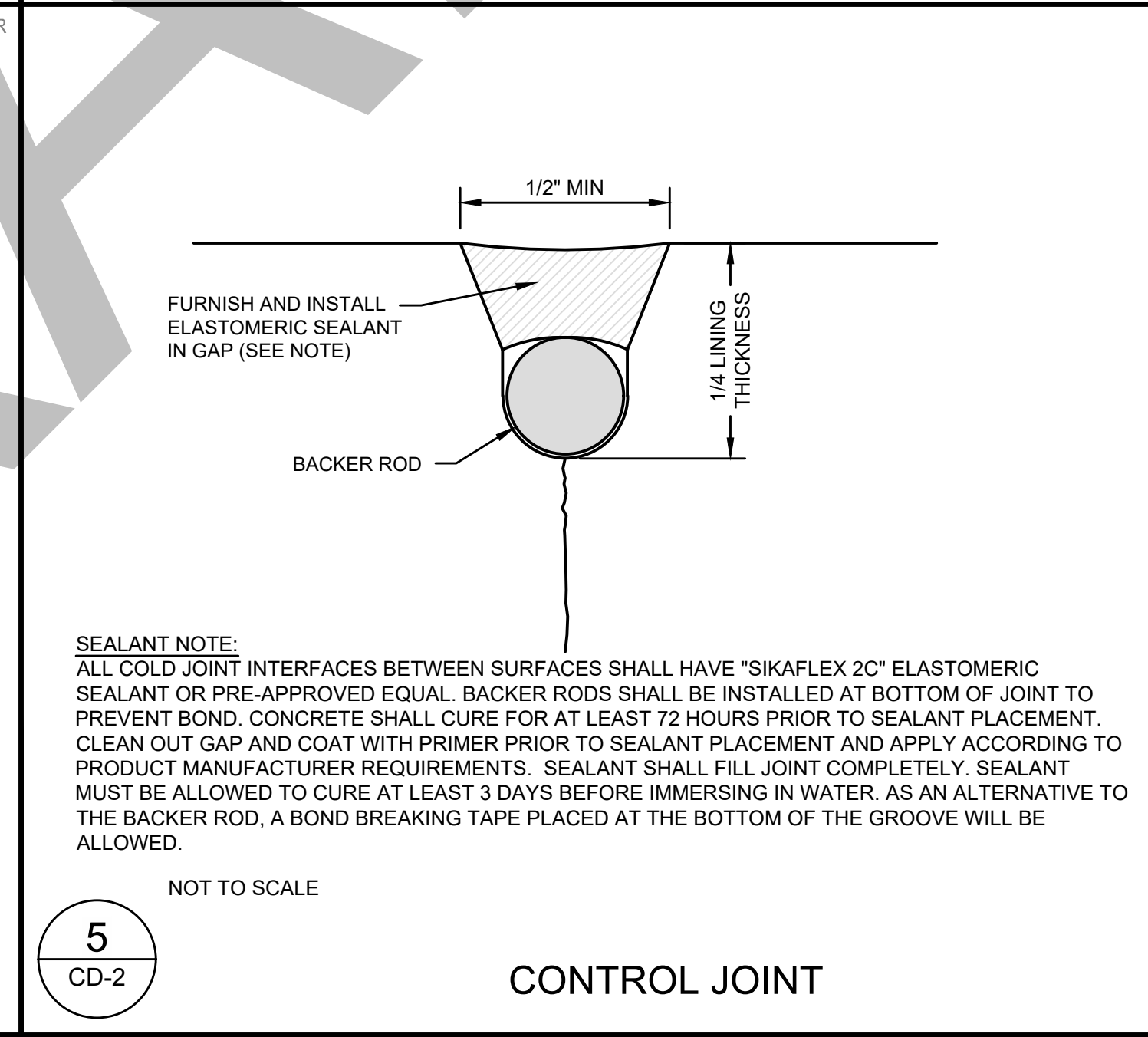
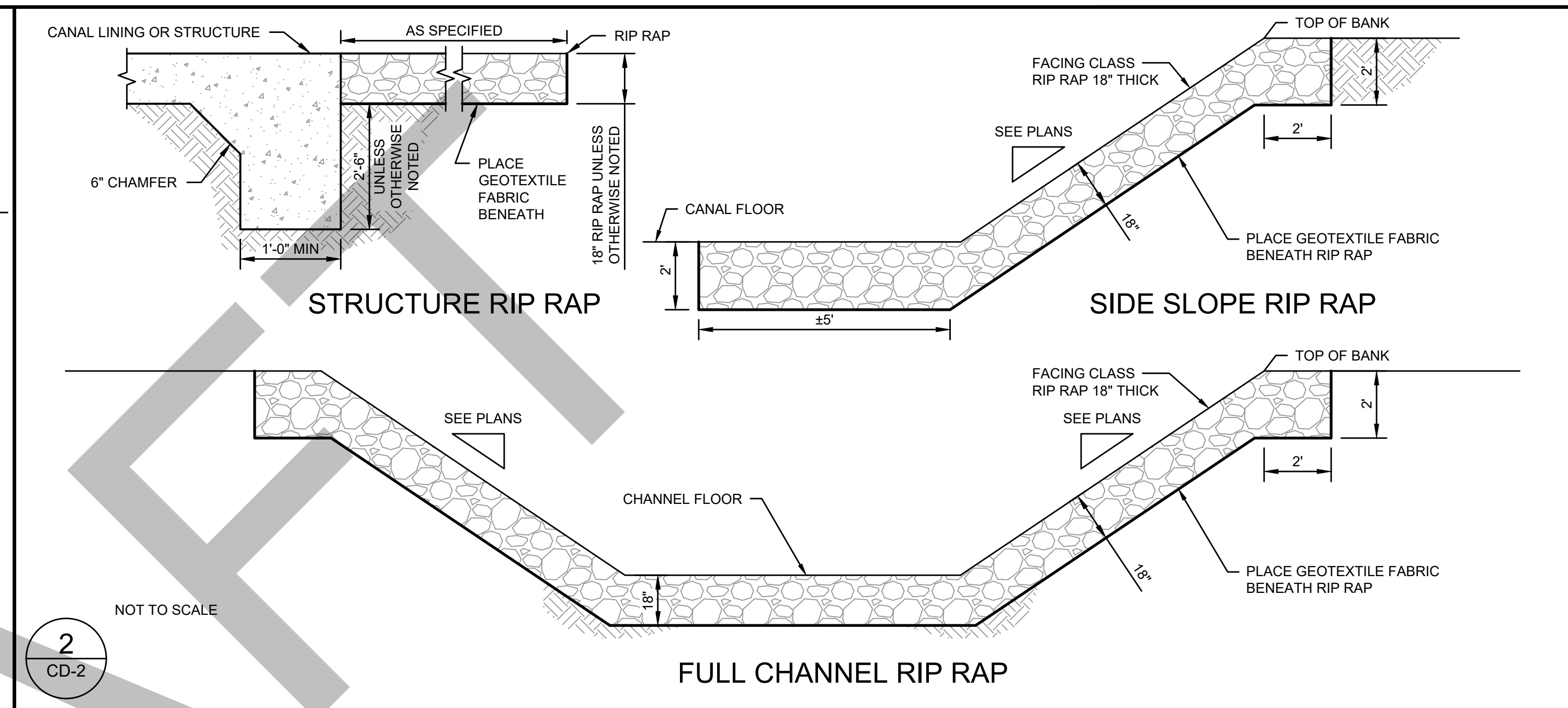
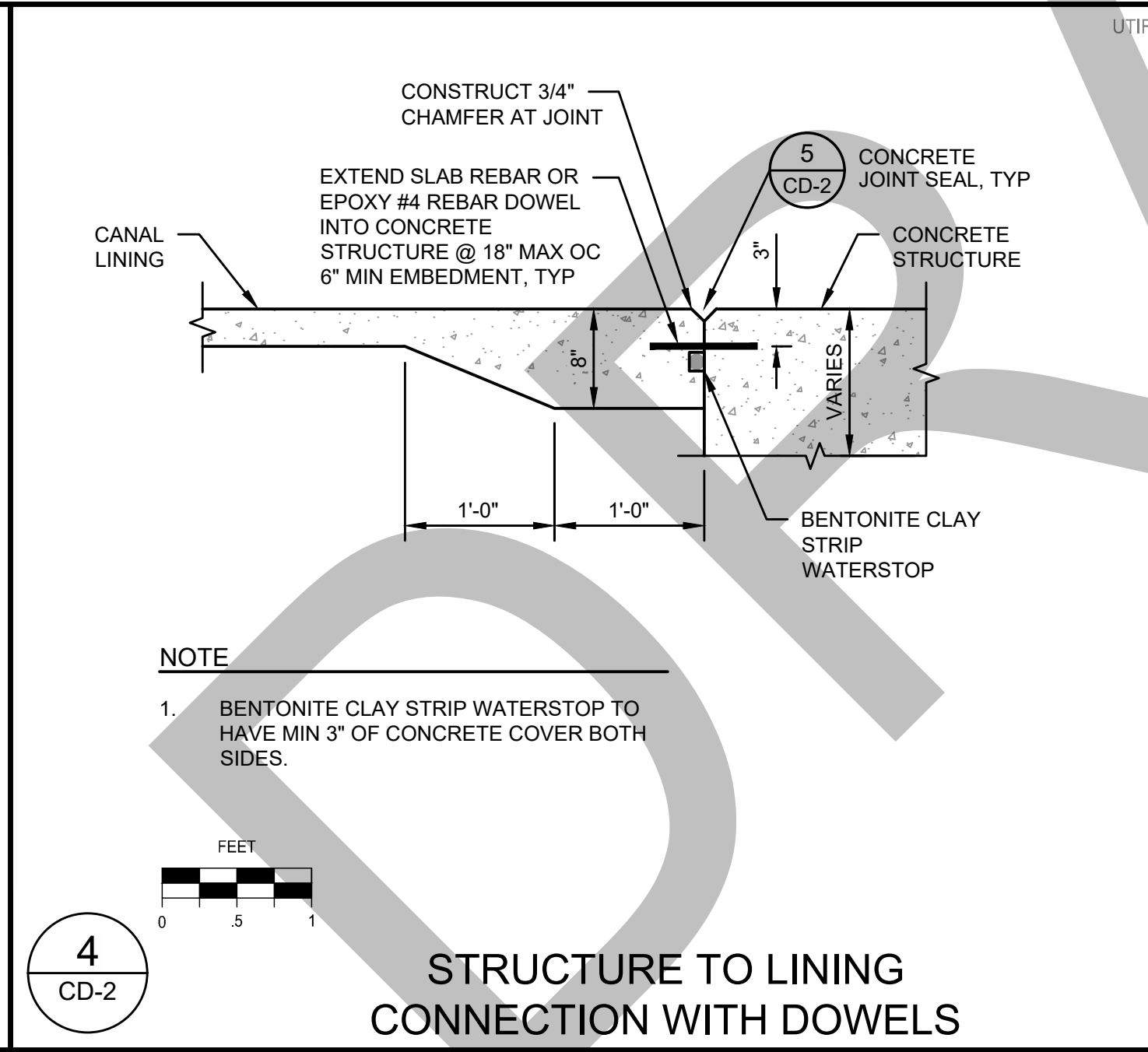
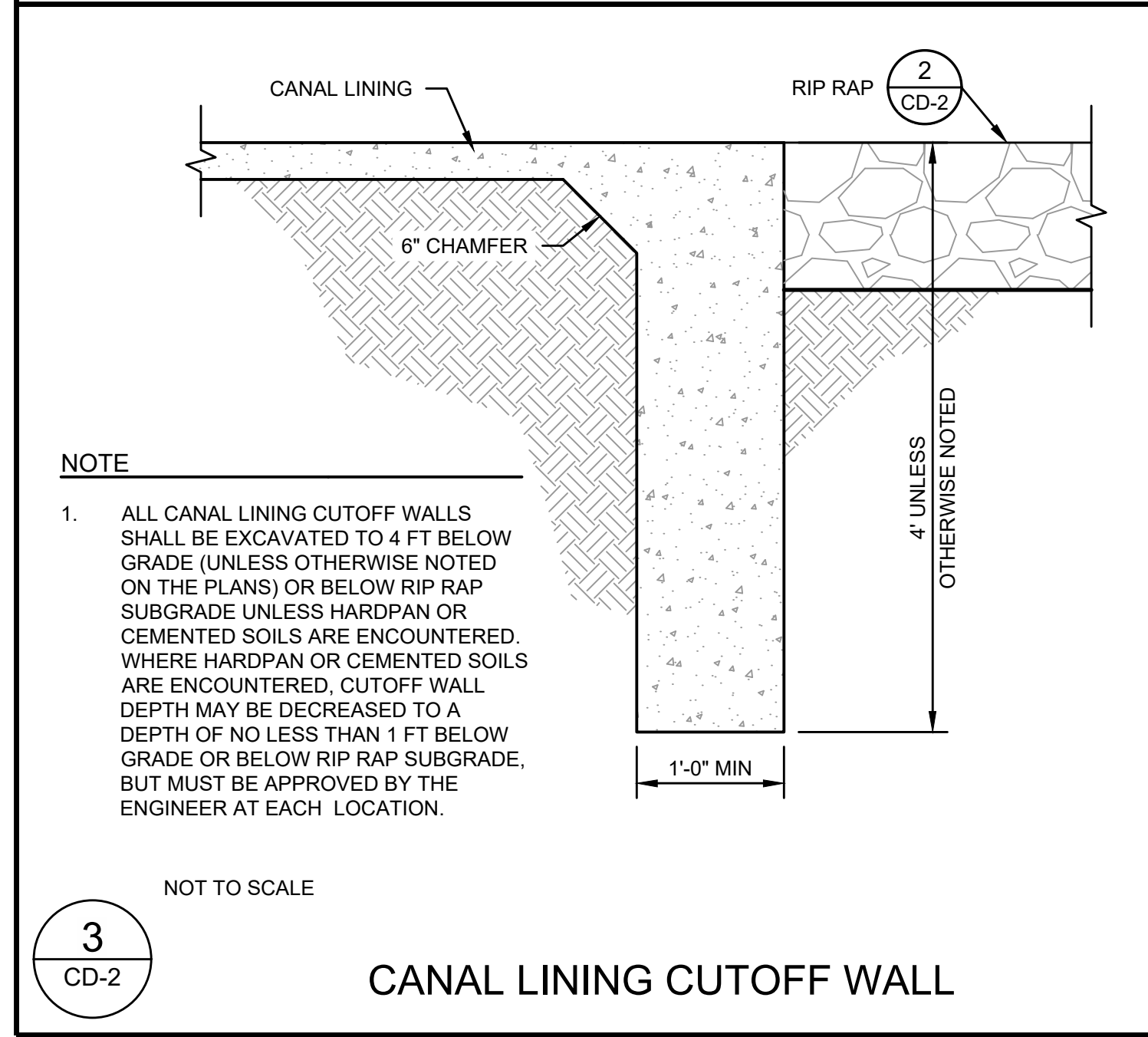
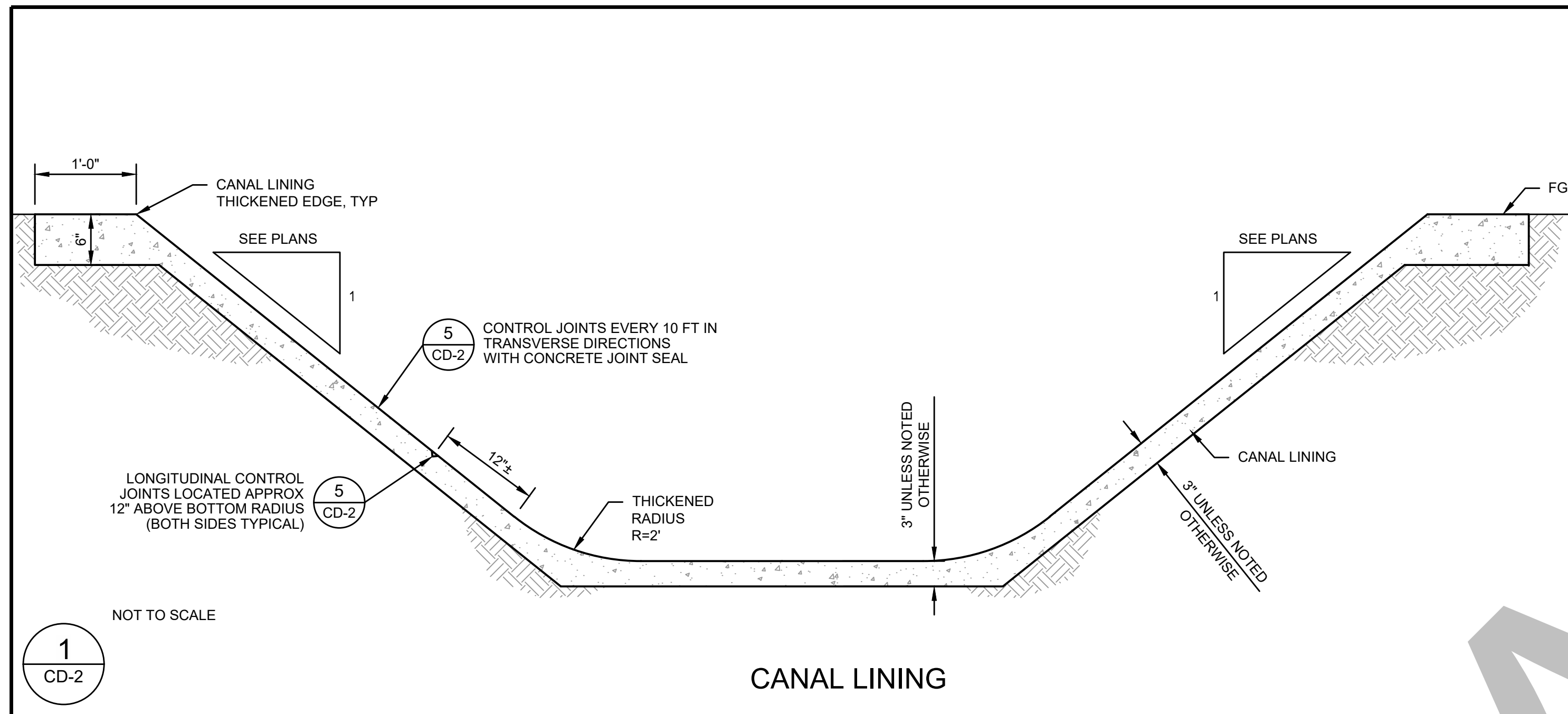
DATE	DEPARTMENT OF PUBLIC WORKS AND PLANNING
	CONSTRUCTION DETAILS



DATE	DEPARTMENT OF PUBLIC WORKS AND PLANNING
	CONSTRUCTION DETAILS

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NOTE

1. ALL CANAL LINING CUTOFF WALLS SHALL BE EXCAVATED TO 4 FT BELOW GRADE (UNLESS OTHERWISE NOTED ON THE PLANS) OR BELOW RIP RAP SUBGRADE UNLESS HARDPAN OR CEMENTED SOILS ARE ENCOUNTERED. WHERE HARDPAN OR CEMENTED SOILS ARE ENCOUNTERED, CUTOFF WALL DEPTH MAY BE DECREASED TO A DEPTH OF NO LESS THAN 1 FT BELOW GRADE OR BELOW RIP RAP SUBGRADE, BUT MUST BE APPROVED BY THE ENGINEER AT EACH LOCATION.

NOTE

1. BENTONITE CLAY STRIP WATERSTOP TO HAVE MIN 3\"/>

SEALANT NOTE:
ALL COLD JOINT INTERFACES BETWEEN SURFACES SHALL HAVE "SIKAFLEX 2C" ELASTOMERIC SEALANT OR PRE-APPROVED EQUAL. BACKER RODS SHALL BE INSTALLED AT BOTTOM OF JOINT TO PREVENT BOND. CONCRETE SHALL CURE FOR AT LEAST 72 HOURS PRIOR TO SEALANT PLACEMENT. CLEAN OUT GAP AND COAT WITH PRIMER PRIOR TO SEALANT PLACEMENT AND APPLY ACCORDING TO PRODUCT MANUFACTURER REQUIREMENTS. SEALANT SHALL FILL JOINT COMPLETELY. SEALANT MUST BE ALLOWED TO CURE AT LEAST 3 DAYS BEFORE IMMERSING IN WATER. AS AN ALTERNATIVE TO THE BACKER ROD, A BOND BREAKING TAPE PLACED AT THE BOTTOM OF THE GROOVE WILL BE ALLOWED.

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DESIGNED:	DATE	RECORD DRAWING		SCALE
KJ	8-29-2024	RESIDENT ENGINEER	DATE	
DRAWN:	8-29-2024			
CHECKED:	8-29-2024			

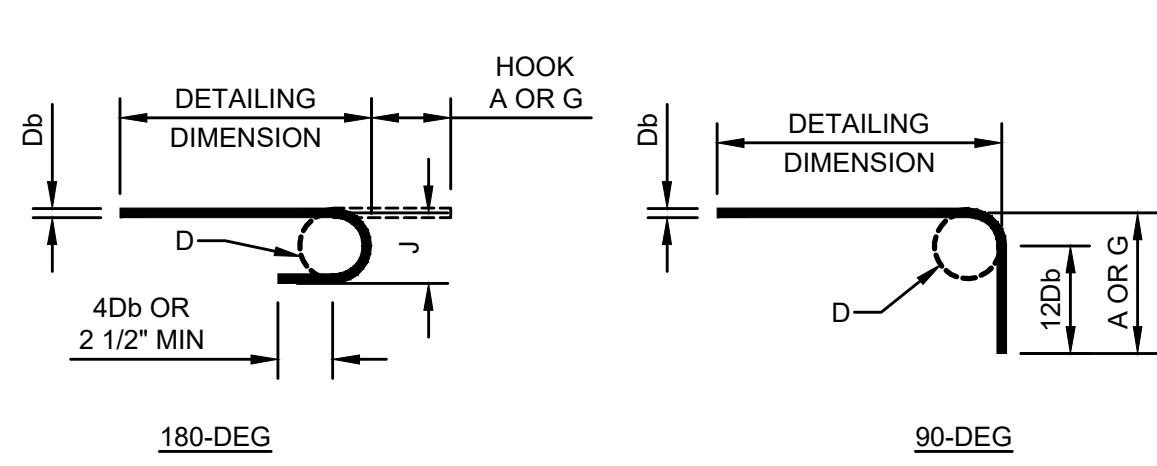
SUPERVISING ENGINEER		DATE



PROJECT	
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



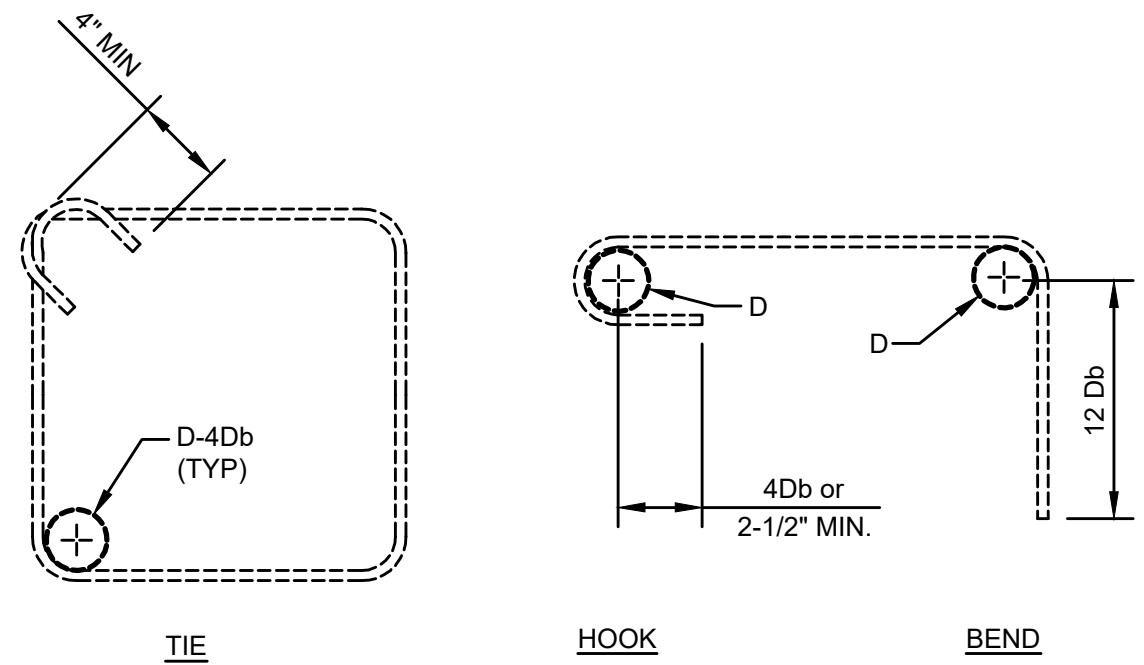
DEPARTMENT OF PUBLIC WORKS AND PLANNING		
CONSTRUCTION DETAILS		
DRAWING NO. 11330	SHEET NO. CD-2	TOTAL 30



DIMENSION OF STANDARD 180° HOOKS, ALL GRADES				DIMENSION OF STANDARD 90° HOOKS, ALL GRADES	
SIZE	D	J	A OR G	D	A OR G
#3	2 1/4"	3"	5"	2 1/4"	6"
#4	3"	4"	6"	3"	8"
#5	3 3/4"	5"	7"	3 3/4"	10"
#6	4 1/2"	6"	8"	4 1/2"	12"
#7	5 1/4"	7"	10"	5 1/4"	14"
#8	6"	8"	11"	6"	16"
#9	9 1/2"	11 3/4"	15"	9 1/2"	19"
#10	10 3/4"	13 1/4"	17"	10 3/4"	22"
#11	12"	14 3/4"	19"	12"	24"
#14	18 1/4"	21 3/4"	27"	18 1/4"	31"
#18	24"	28 1/2"	36"	24"	41"

NOTES

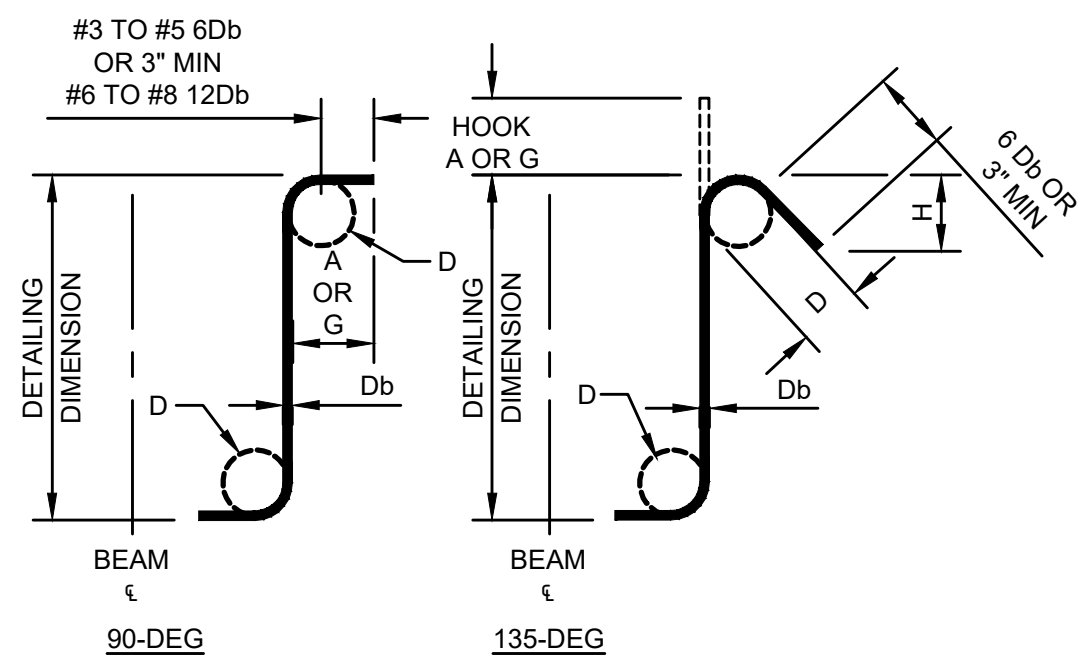
- SPLICES SHOWN ARE NORMALWEIGHT CONCRETE, UNCOATED SPLICE $f_y=60$ ksi $f_c=4$ ksi CALCULATED PER ACI 318-14 SECTION 25.4.2.2. SEE CHART 1 FOR DIFFERENT CONCRETE STRENGTHS.
- $D_b = (1)$ BAR DIAMETER
 $D =$ FINISHED INSIDE BEND DIA.
 $D = 6D_b$ FOR #3-#8
 $D = 8D_b$ FOR #9-#11
 $D = 10D_b$ FOR #14 AND #18



REINFORCEMENT BENDS

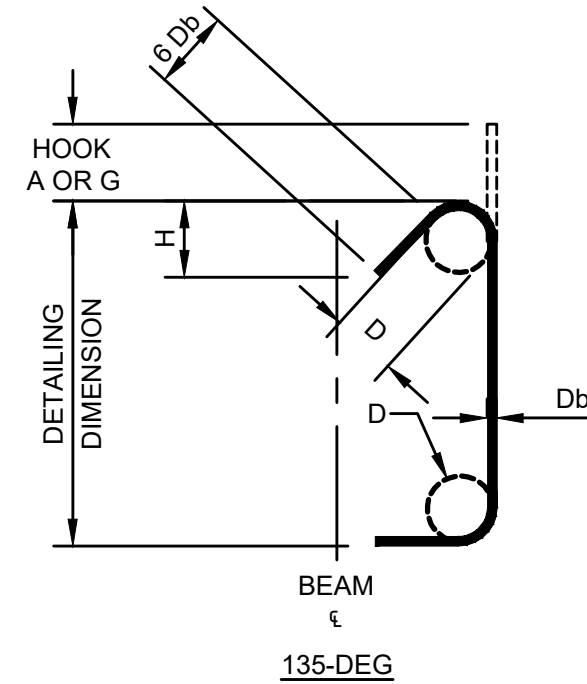
CHART 2		
BAR SIZE	CL1	CL2
#4	0.5	0.65
#5	0.63	0.81
#6	0.75	0.98
#7	0.875	1.14
#8	1.0	1.3
#9	1.28	1.47

CONCRETE BAR TYPES LAP TYPE
 FOOTING BARS (OTHER THAN TOP BARS) CL1
 HORIZ. WALL BARS CL2
 FOOTING "TOP BARS" CL2
 WALL CHORD BARS CL3



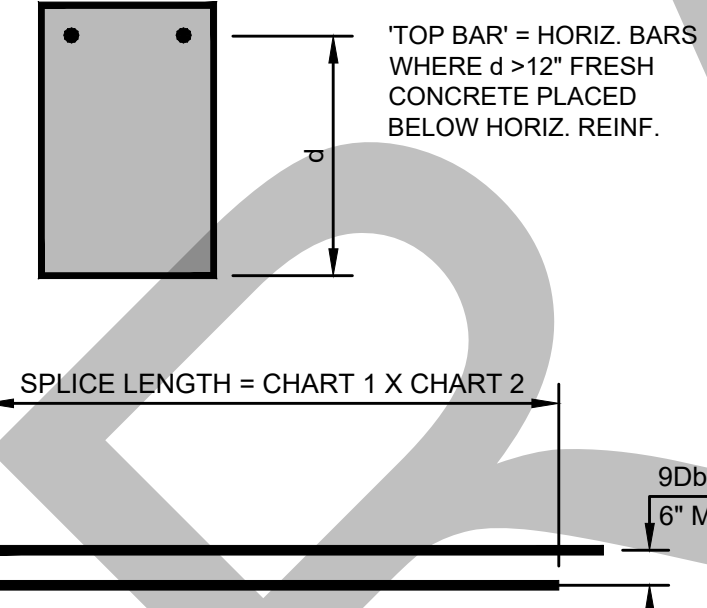
STIRRUP HOOKS (TIE BENDS SIMILAR)

SIZE	90°		135°	
	D	A OR G	A OR G	ARROX. H
#3	1 1/2"	4"	4"	2 1/2"
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"
#7	5 1/4"	14"	9"	5 1/4"
#8	6"	16"	10 1/2"	6"



135° SEISMIC HOOK

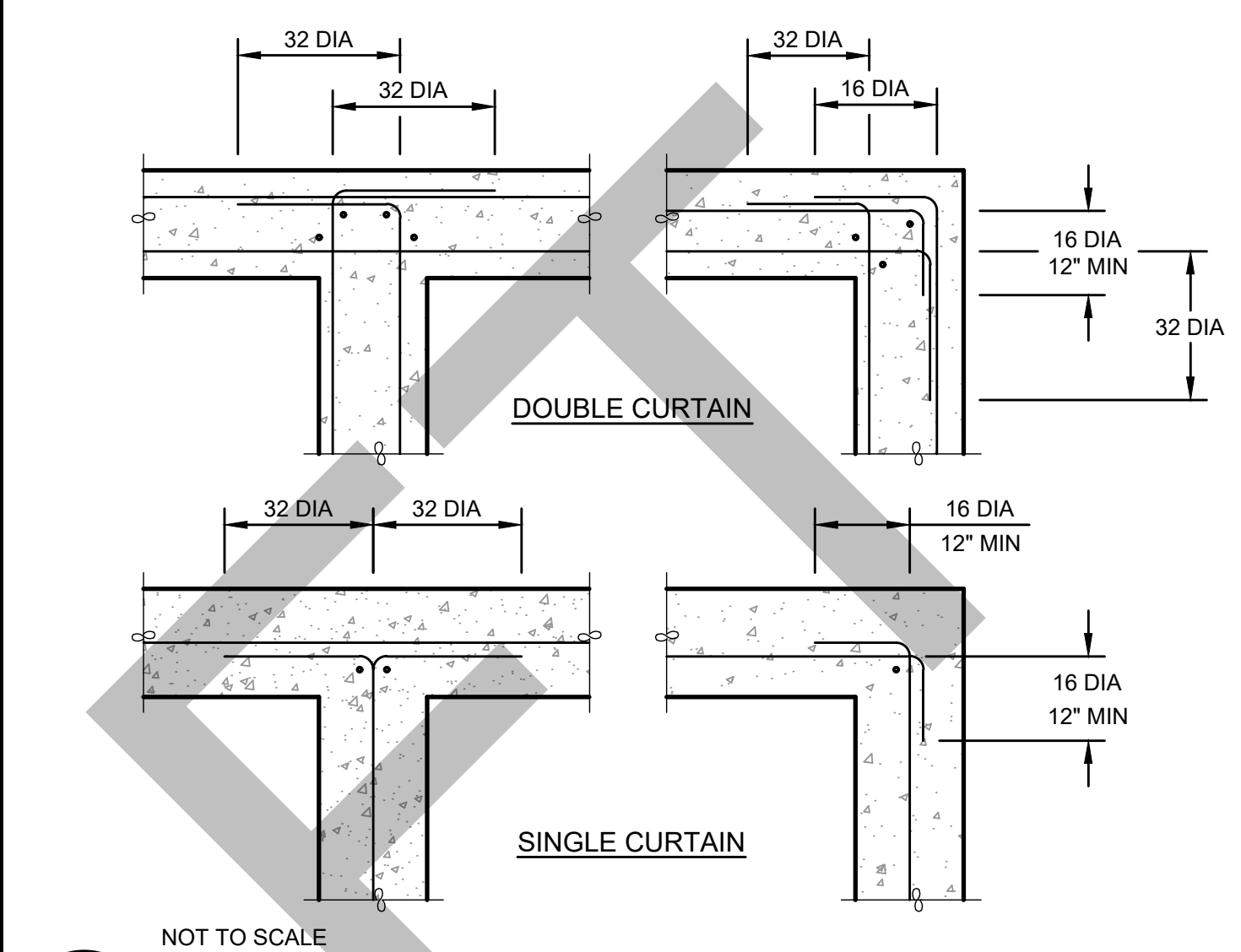
SIZE	135° SEISMIC HOOK	
	D	ARROX. H
#3	1 1/2"	2 1/2"
#4	2"	3"
#5	2 1/2"	3 3/4"
#6	4 1/2"	4 1/2"
#7	5 1/4"	5 1/4"
#8	6"	6"



STRAIGHT REBAR SPLICE

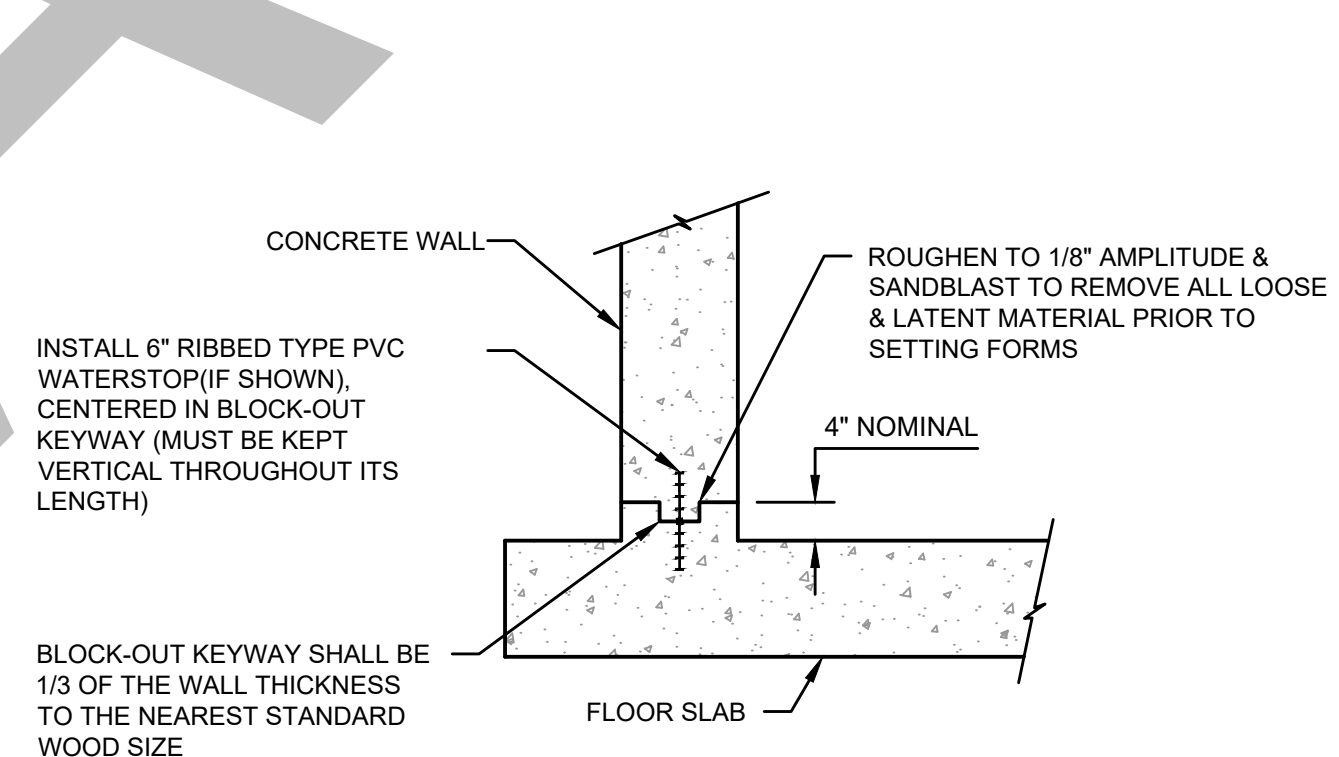
	CHART 1				
	CONCRETE STRENGTH (PSI)				
	2500	3000	3500	4000	5000
#6 AND SMALLER	63	57	53	50	45
#7-#11	78	72	66	62	56

REINFORCEMENT BENDS & SPLICES



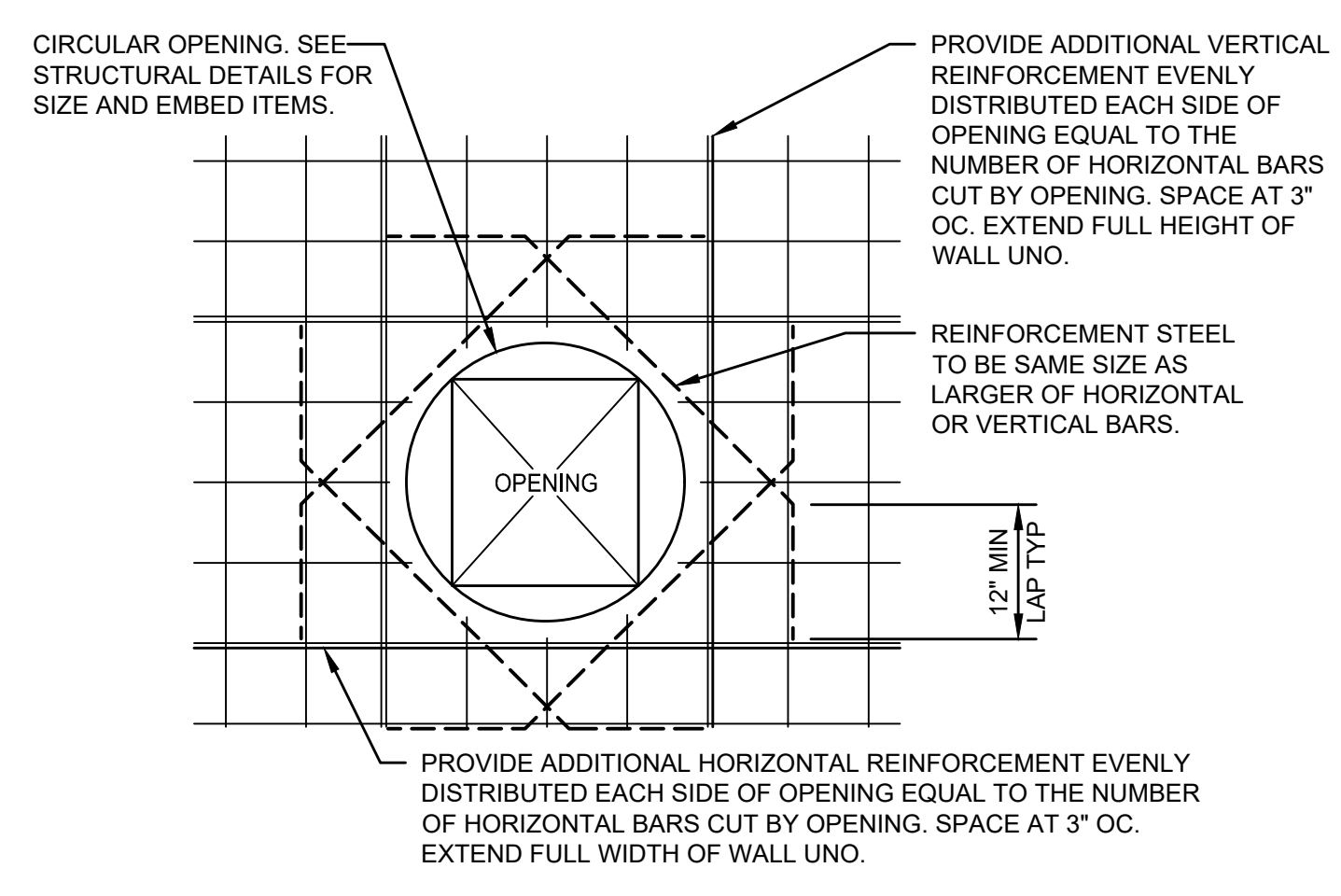
REINFORCEMENTS WITH NO WATERSTOPS

2 CD-3



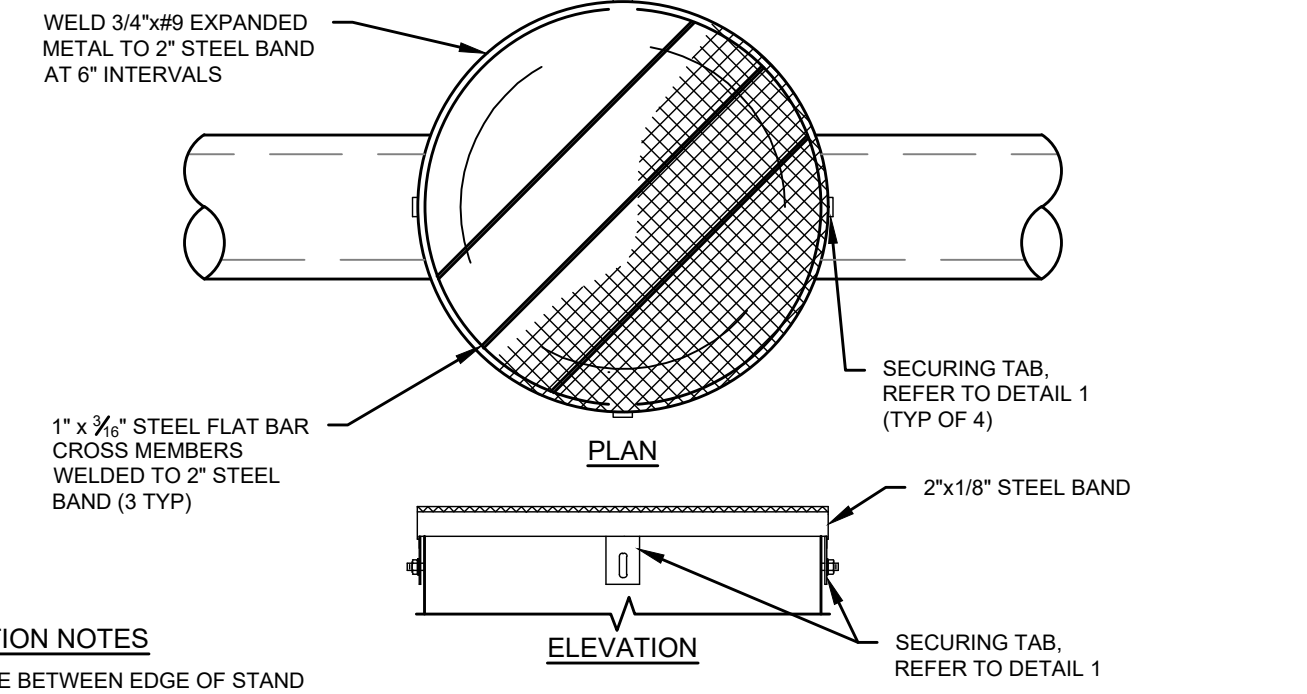
CONSTRUCTION JOINT W/ WATERSTOP AND KEYWAY

4 CD-3



CONCRETE OPENING REINFORCEMENT WITH LIQUID OR SOIL

3 CD-3



EXPANDED METAL COVER

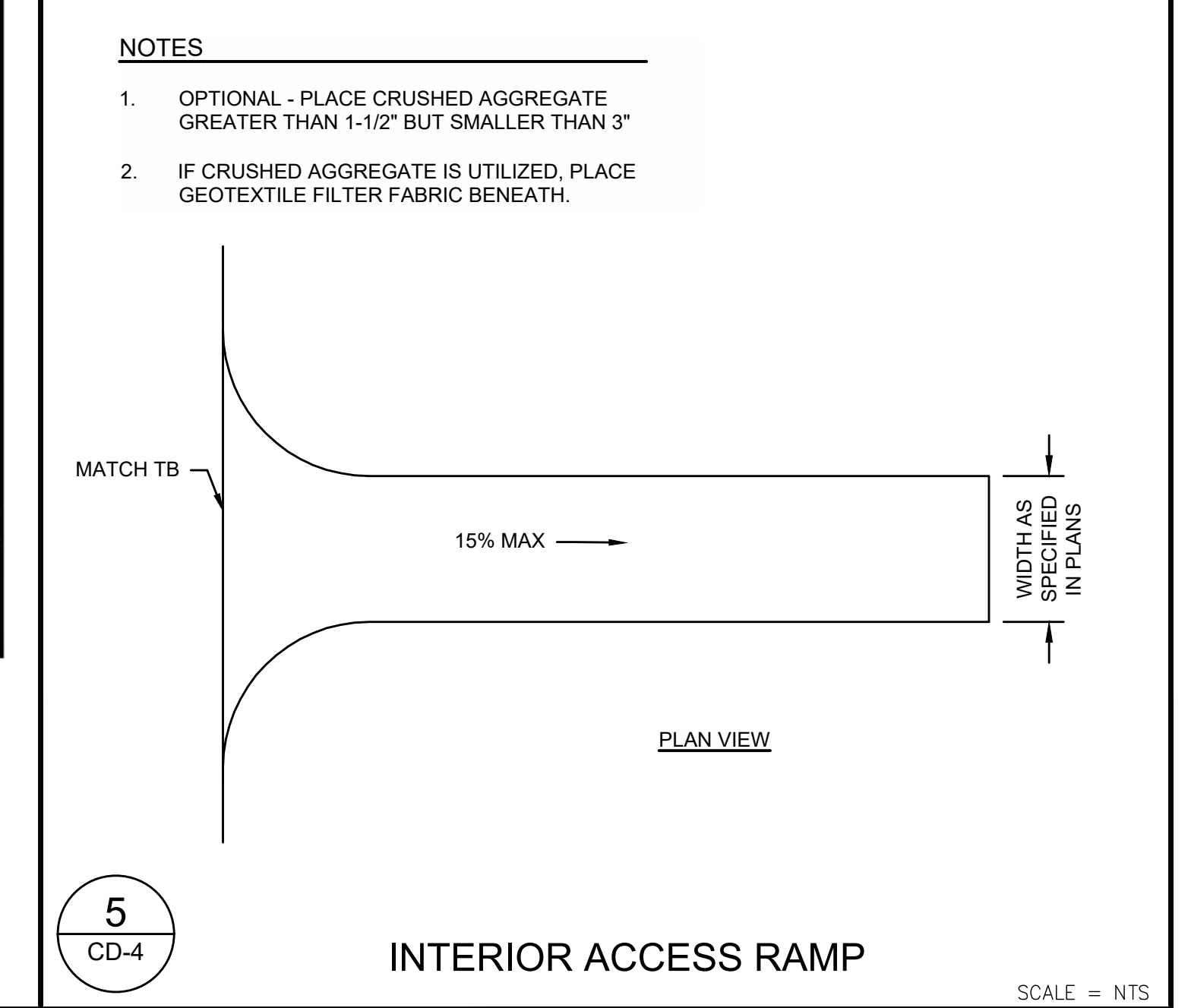
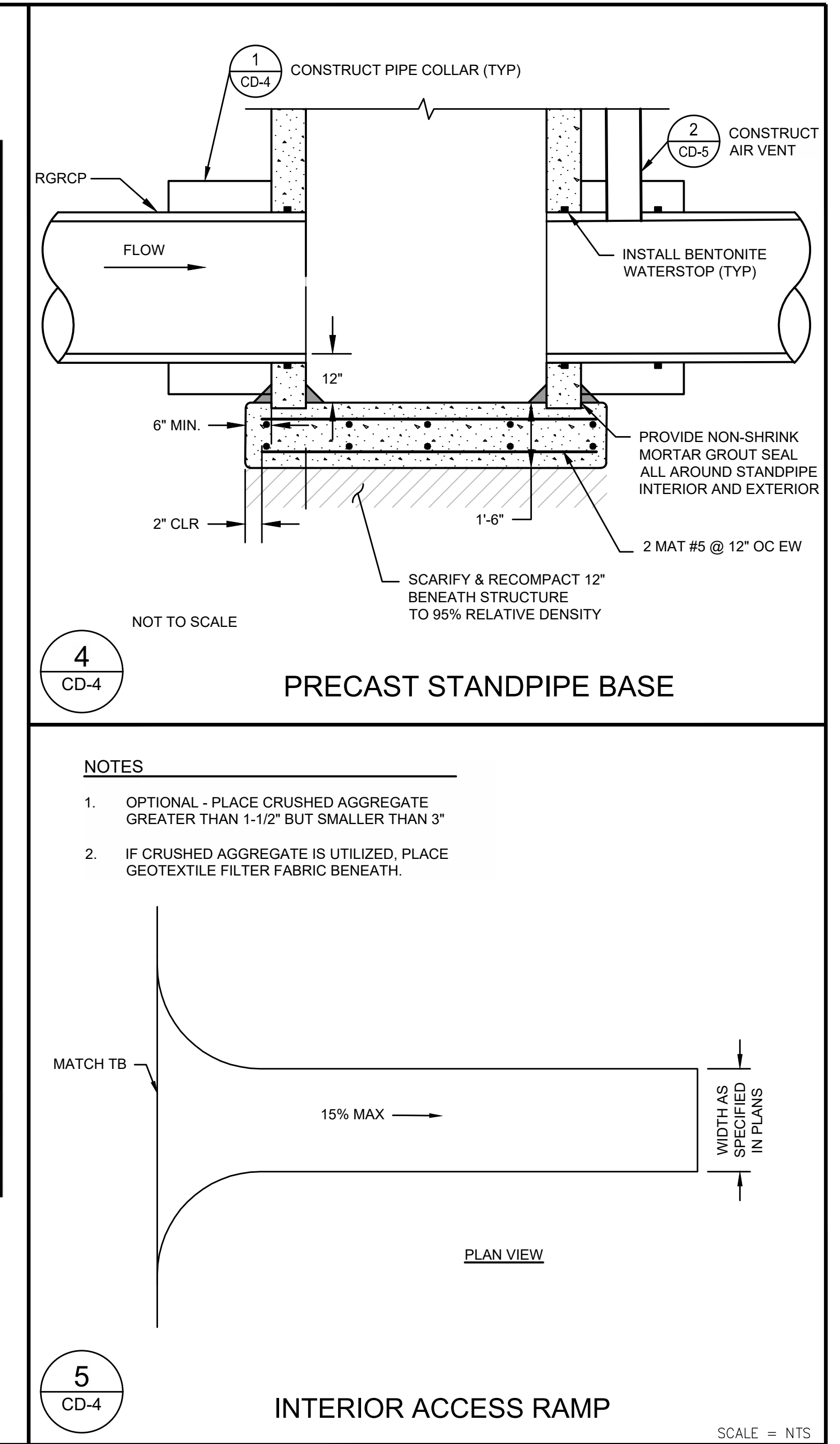
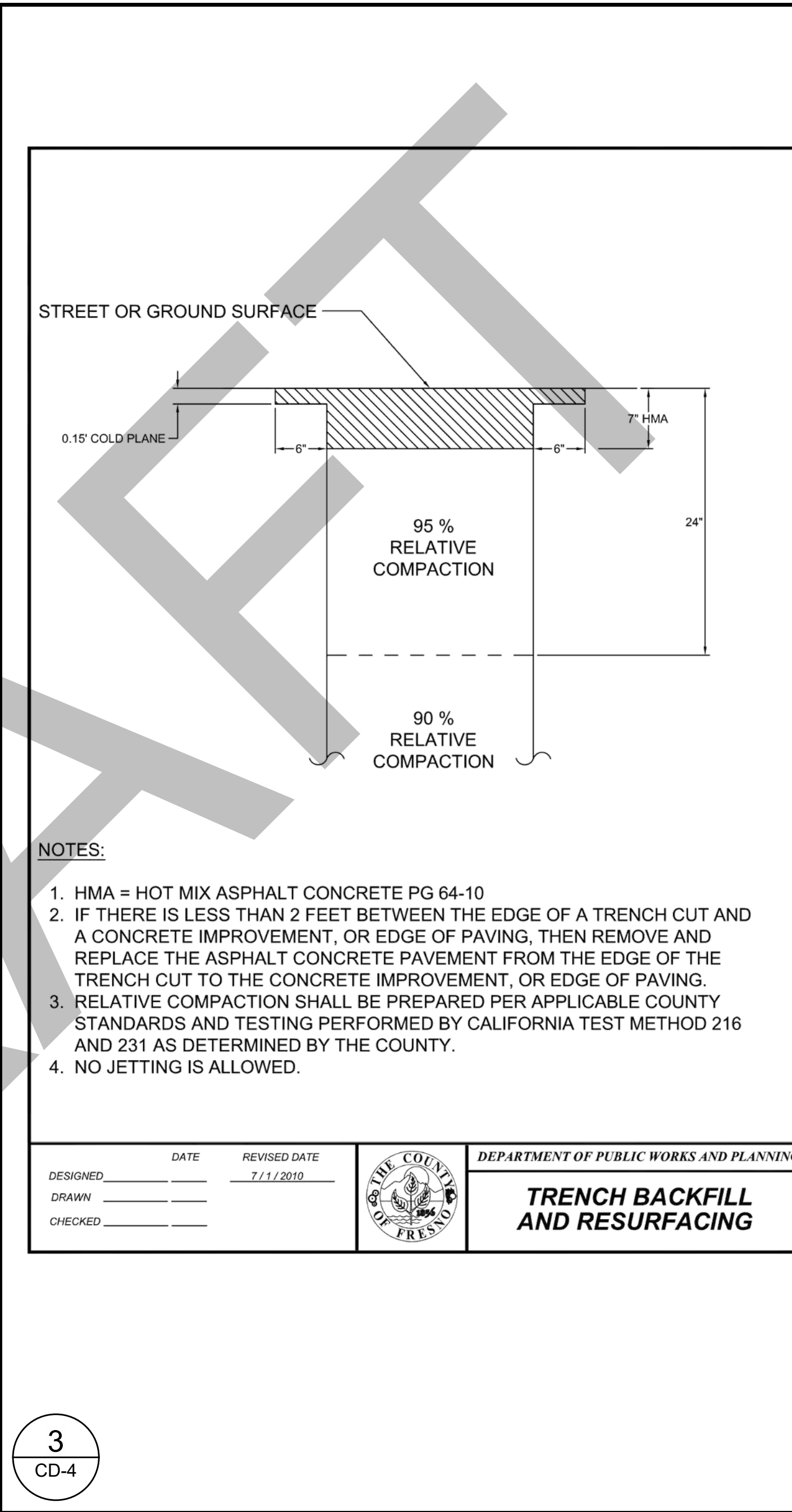
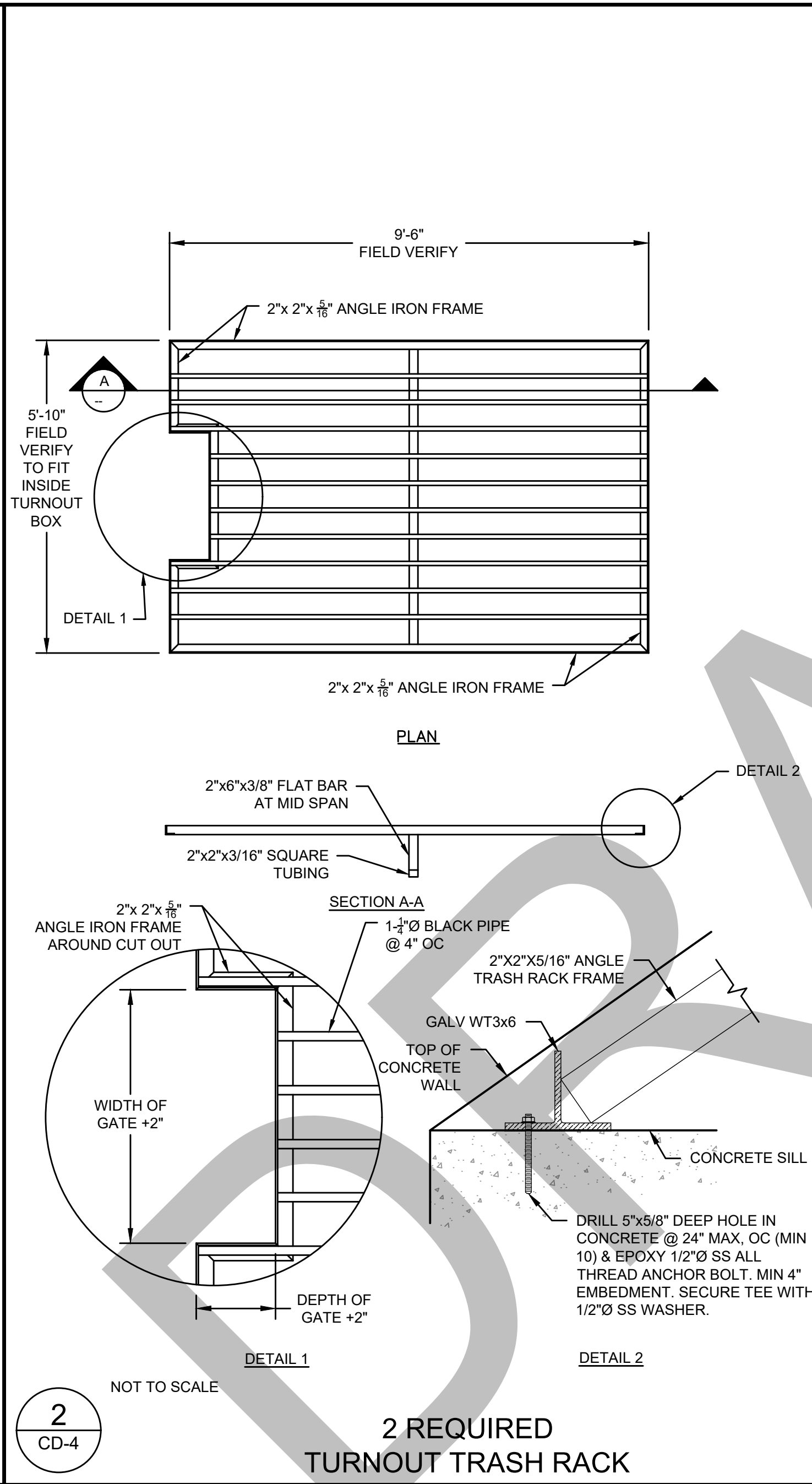
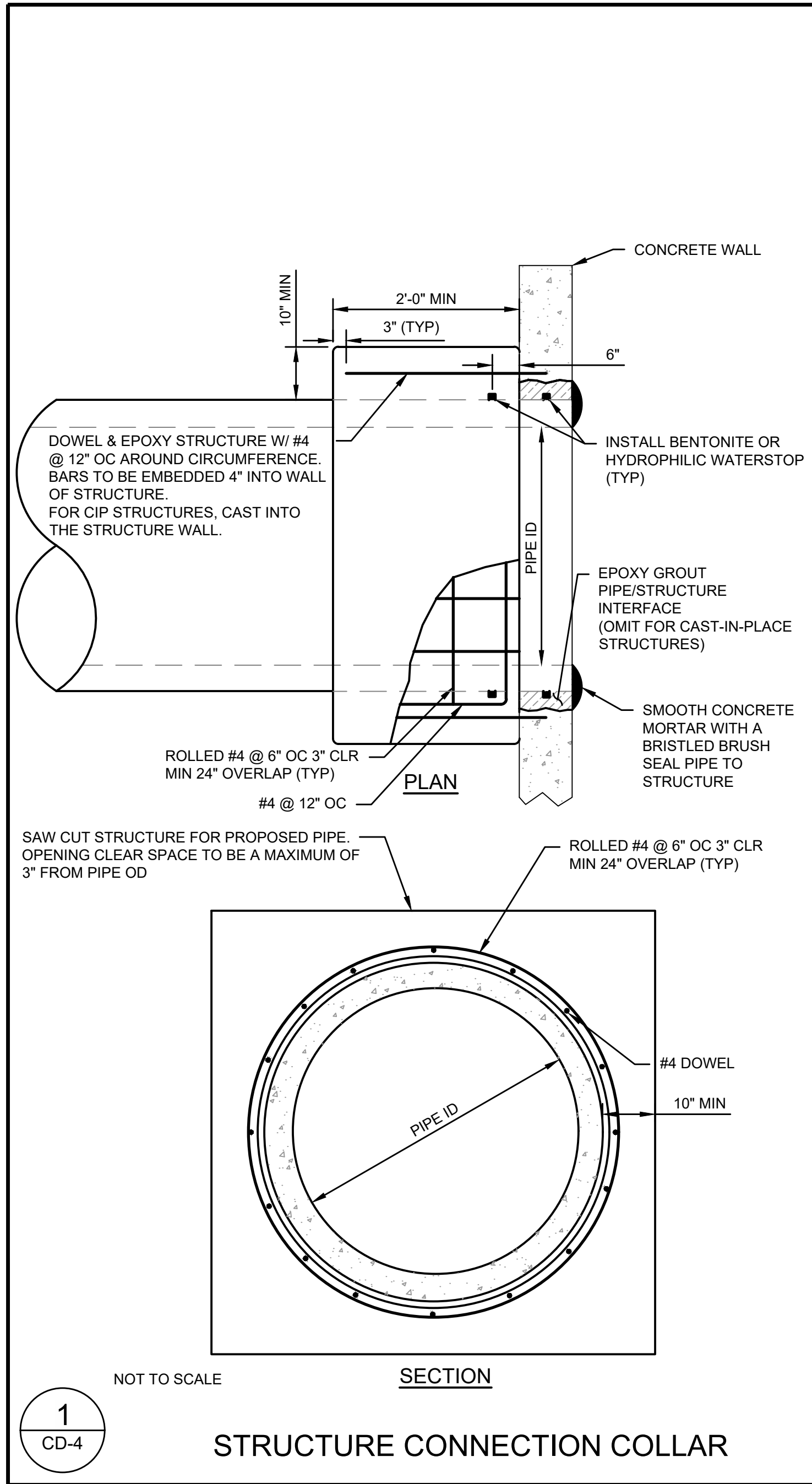
5 CD-3

1 CD-3

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DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING	SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING			
DRAWN: SG	DATE: 8-29-2024	RESIDENT ENGINEER			ELKHORN RECHARGE FACILITY		CONSTRUCTION DETAILS			
CHECKED: KJ	DATE: 8-29-2024				HWY 41 & ELKHORN AVE, FRESNO COUNTY					
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				SUPERVISING ENGINEER	DATE	ROAD NO.	BRIDGE NO.	DRAWING NO. 11330	SHEET NO. CD-3	TOTAL 30

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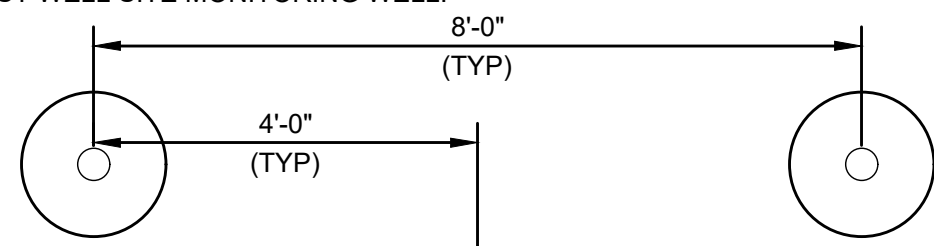
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DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING	SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: SG	DATE: 8-29-2024	RESIDENT ENGINEER			ELKHORN RECHARGE FACILITY		CONSTRUCTION DETAILS
CHECKED: KJ	DATE: 8-29-2024				HWY 41 & ELKHORN AVE, FRESNO COUNTY		
					ROAD NO. BRIDGE NO.		DRAWING NO. 11330 SHEET NO. CD-4 TOTAL 30

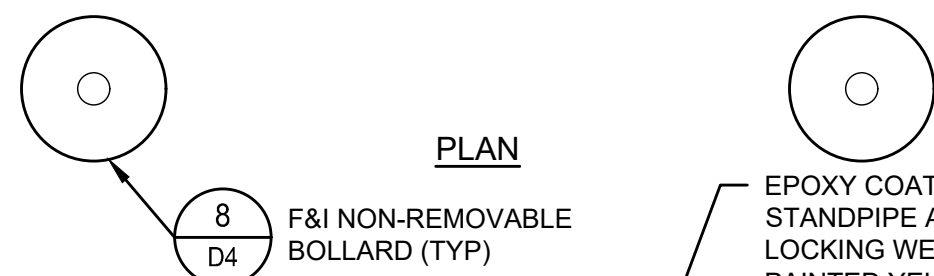
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NOTES

- (E) CONCRETE FOUNDATION TO REMAIN FOR CENTRAL WELL SITE MONITORING WELL.
- CONSTRUCT NEW CONCRETE FOUNDATION FOR NORTHWEST WELL SITE MONITORING WELL.



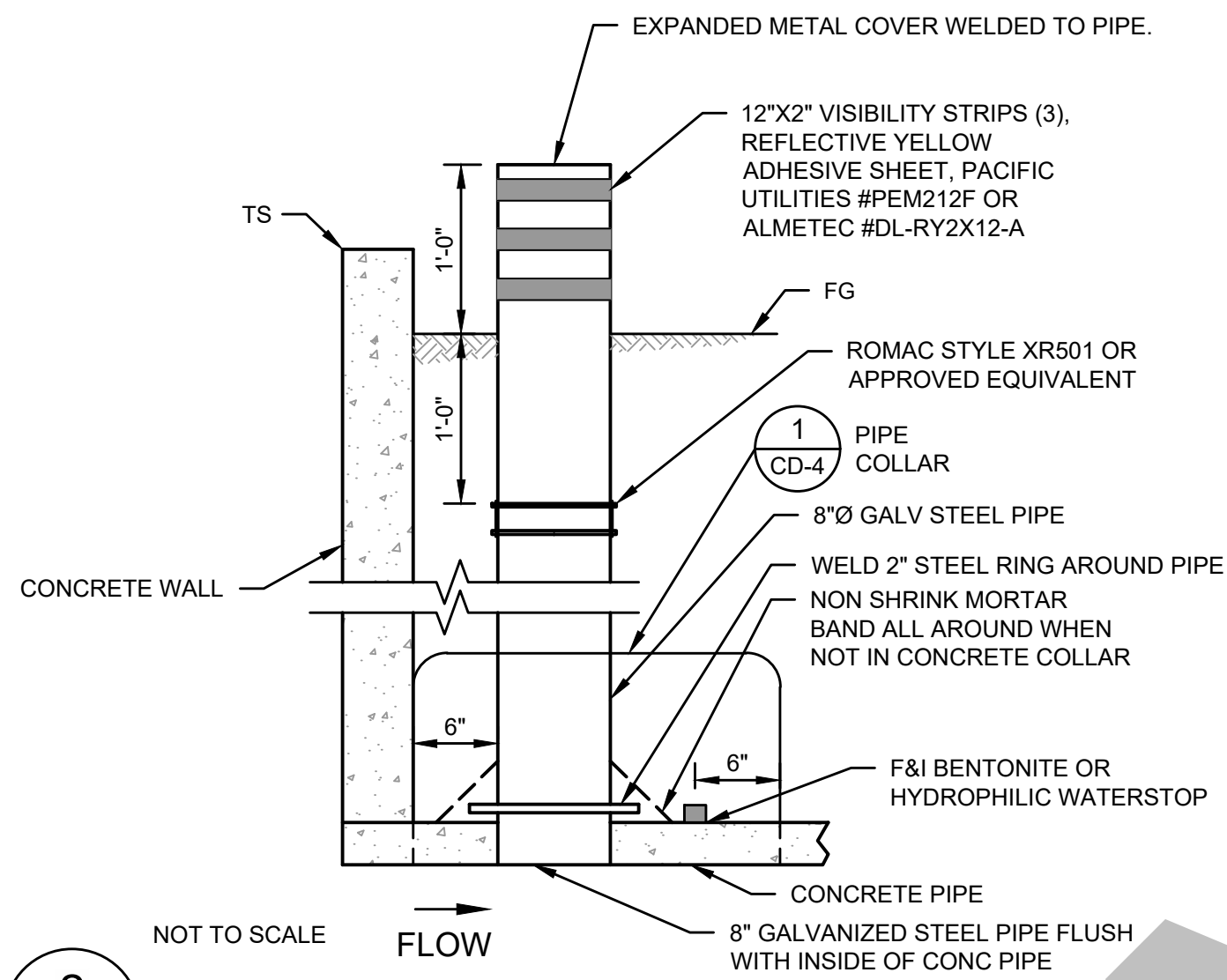
CONSTRUCT 5' x 5' CONCRETE FOUNDATION, IF NEEDED SEE NOTES 1 AND 2.



PLAN

ELEVATION

WELL MODIFICATIONS



2
CD-5

AIR VENT - CONCRETE PIPE

NOT TO SCALE

FLOW

DRAFT

1
CD-5

NOT TO SCALE

8/29/2024 11:04 AM g:\fresno\county\dl\189713872014-4480m\sch\basin350\CD-5 CONSTRUCTION DETAILS.dwg - Stephen Ghazizadeh

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DESIGNED:	DATE	RECORD DRAWING	
KJ	8-29-2024	RESIDENT ENGINEER	DATE
SG	8-29-2024		
KJ	8-29-2024		

SCALE	SUPERVISING ENGINEER	DATE

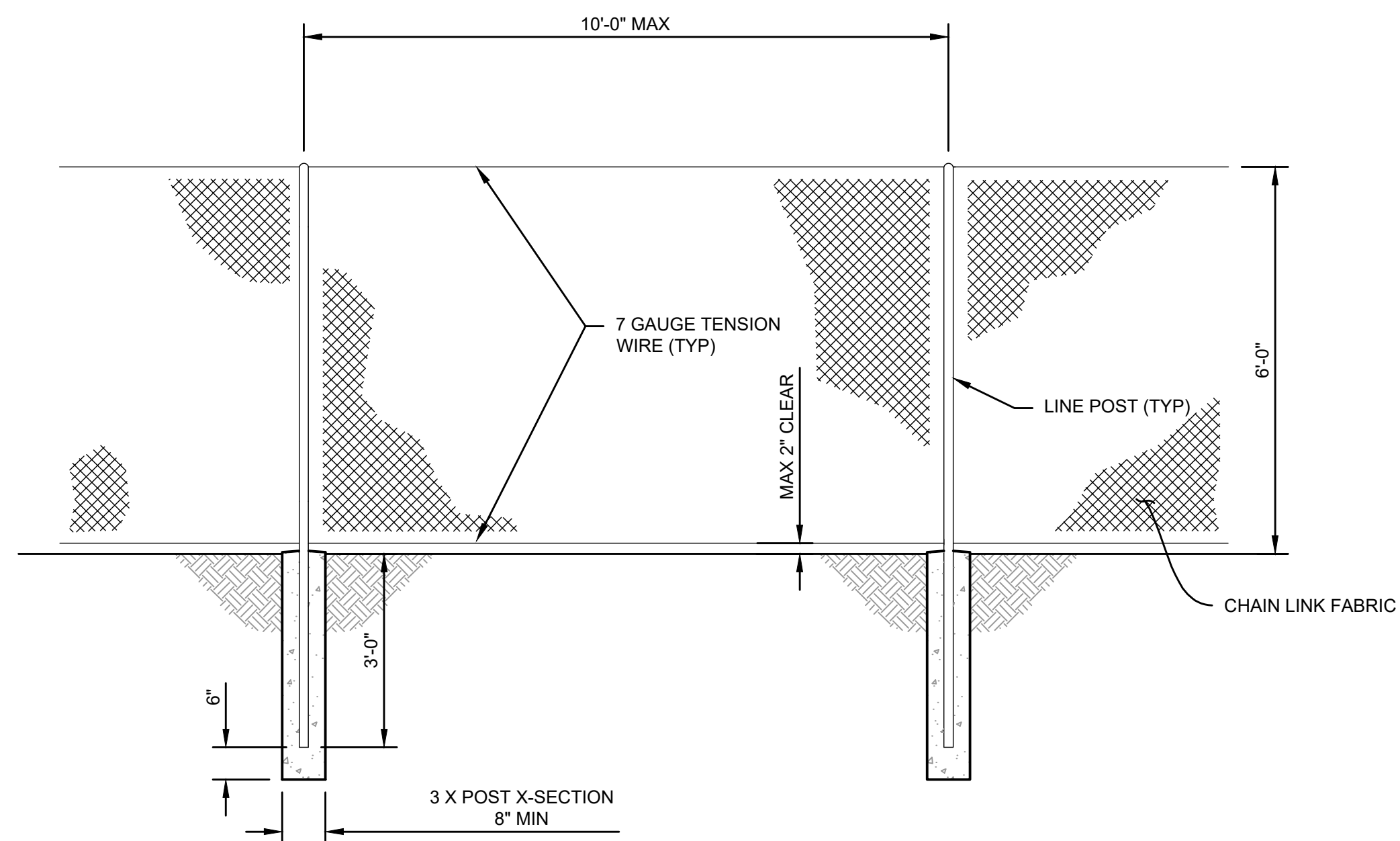


PROJECT	
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
CONSTRUCTION DETAILS		
DRAWING NO. 11330	SHEET NO. CD-5	TOTAL 30

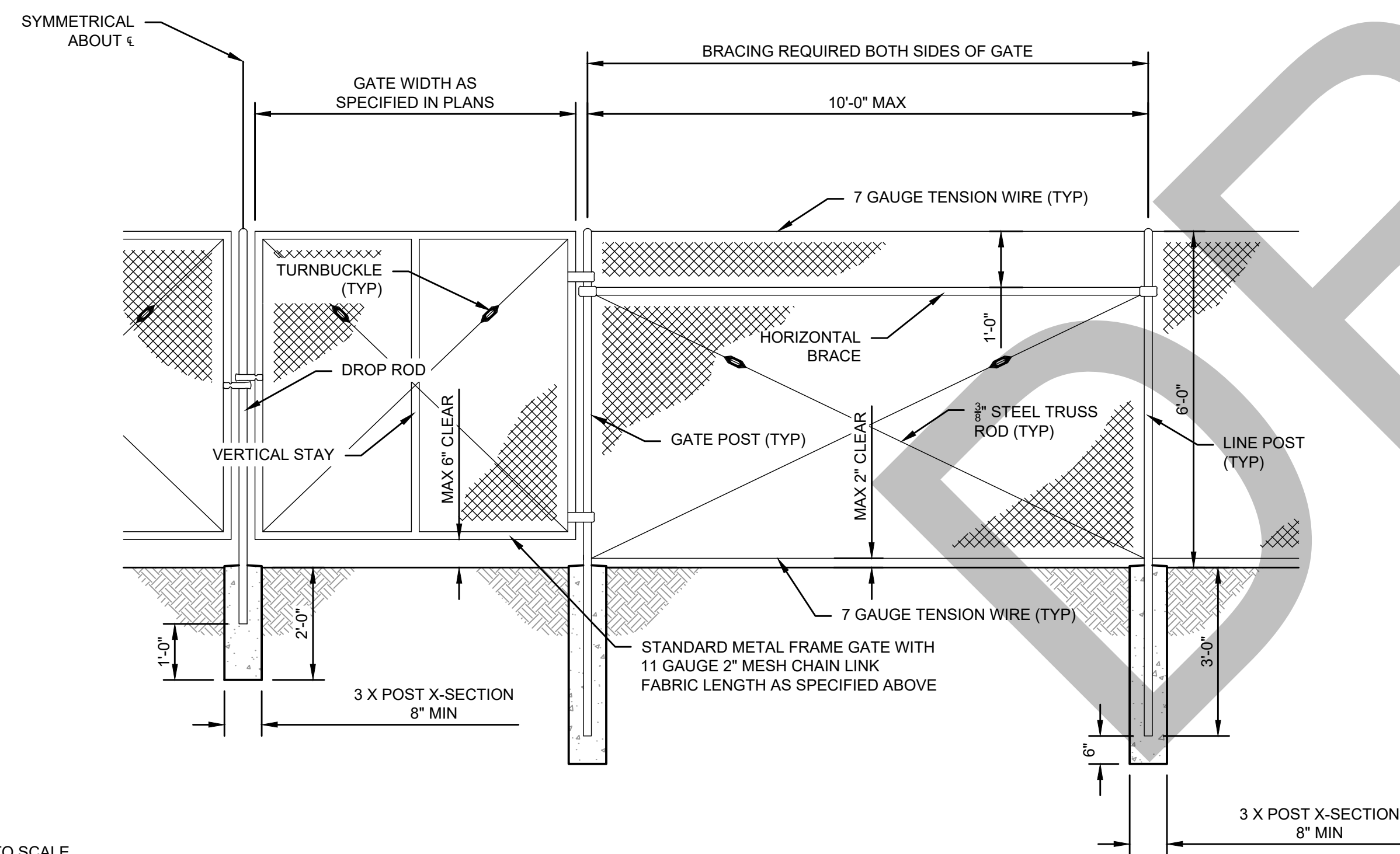
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



NOT TO SCALE

1
CD-6

CHAIN LINK FENCE



NOT TO SCALE

2
CD-6

CHAIN LINK FENCE DOUBLE GATE

FENCE AND POST SCHEDULE			
HEIGHT	LOCATION	NOMINAL ID	WEIGHT LB/FT
6'-0" AND LESS	LINE POST	1-1/2"	2.71
	END, LATCH & CORNER POST	2"	3.65
	BRACES	1-1/4"	2.27
	FABRIC	11 GAUGE	
OVER 6'-0"	LINE POST	2"	3.65
	END, LATCH & CORNER POST	2-1/2"	5.79
	BRACES	1-1/4"	2.27
	FABRIC	9 GAUGE	

GATE POST SCHEDULE			
HEIGHT	GATE WIDTH	NOMINAL ID	WEIGHT LB/FT
6'-0" AND LESS	UP TO 6'	2-1/2"	5.79
	6' TO 12'	4"	10.79
	12' TO 18'	5"	14.62
OVER 6'-0"	18' TO 24'	6"	18.97
	UP TO 6'	3"	7.58
	6' TO 12'	5"	14.62
	12' TO 18'	6"	18.97
	18' TO 24'	8"	28.55

- NOTES
1. LINE POST SPACING SHALL BE 10' MAX.
 2. ALL FENCE AND GATE HARDWARE TO BE GALVANIZED.
 3. VERTICAL STAYS REQUIRED FOR GATES WIDER THAN 6'.

NOT TO SCALE

3
CD-6

CHAIN LINK FENCE NOTES

DESIGNED:	DATE	RECORD DRAWING	SCALE
KJ	8-29-2024	RESIDENT ENGINEER	
DRAWN:	8-29-2024		
SG			
CHECKED:	8-29-2024		
KJ			

PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



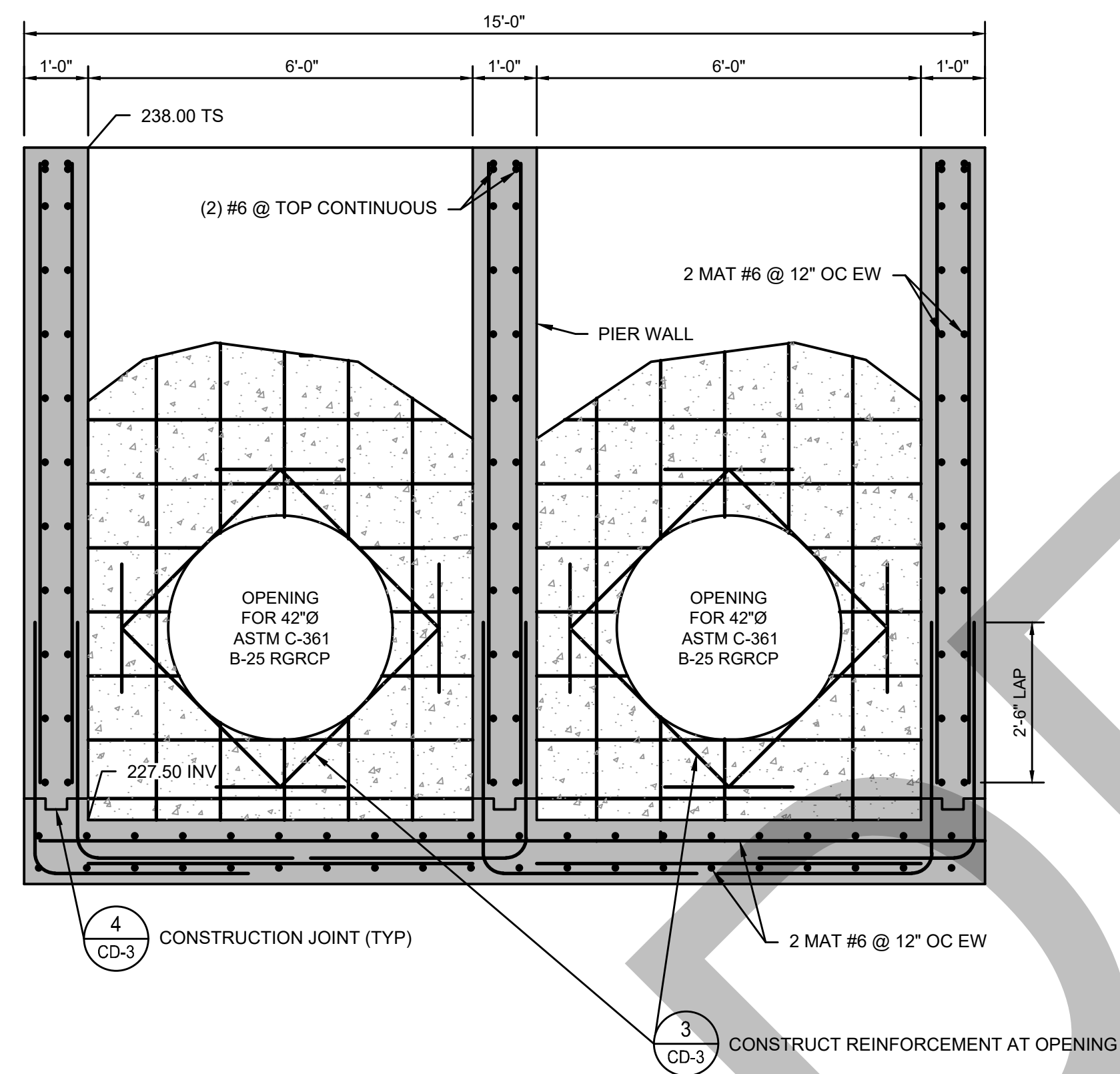
PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
ELKHORN RECHARGE FACILITY	
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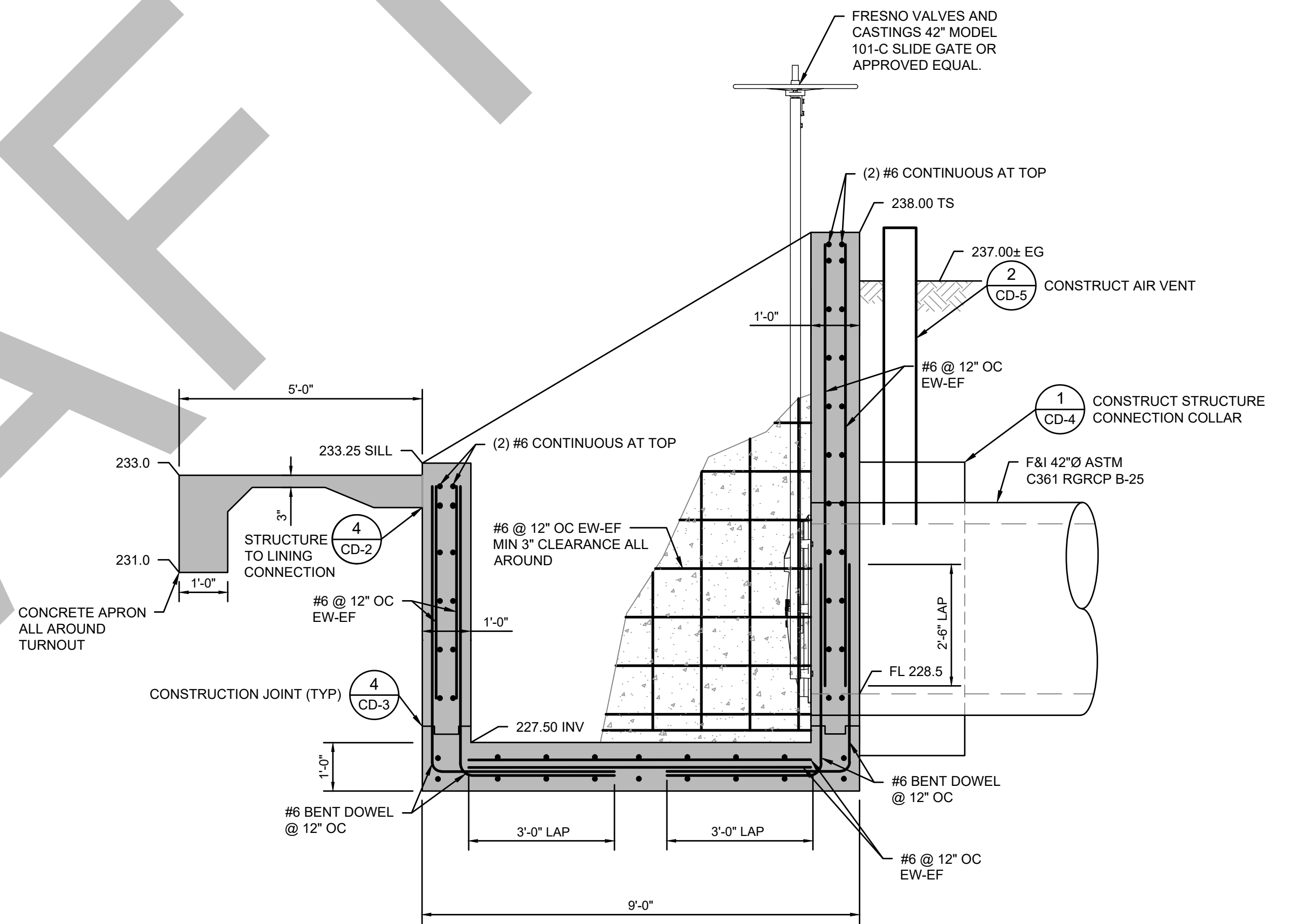
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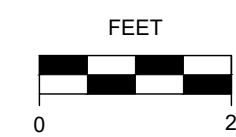
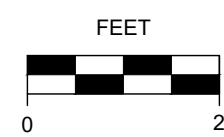
DRAWING NO. 11330 SHEET NO. CD-6 TOTAL 30



TURNOUT SECTION - FRONT





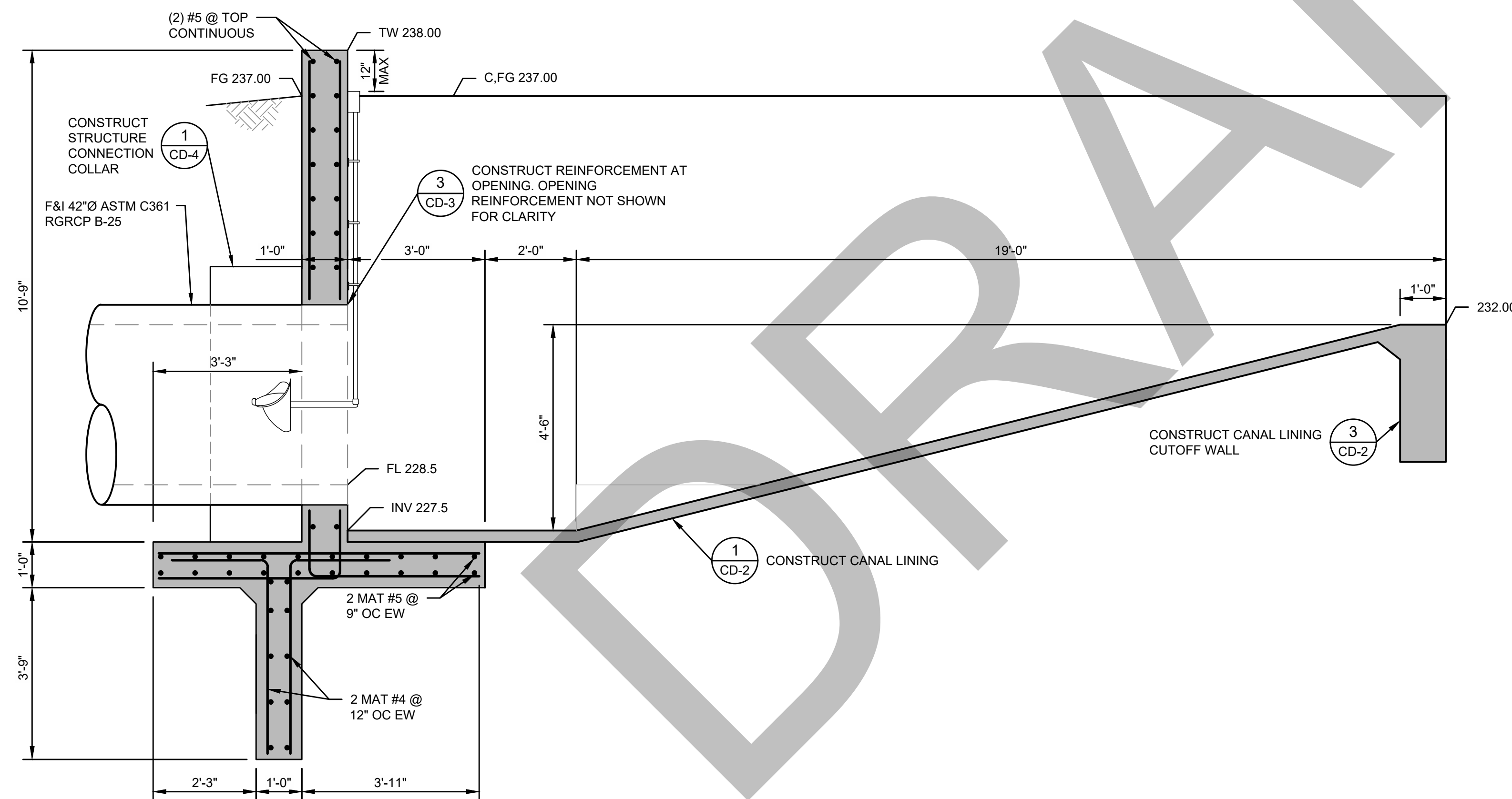
TURNOUT SECTION - SIDE



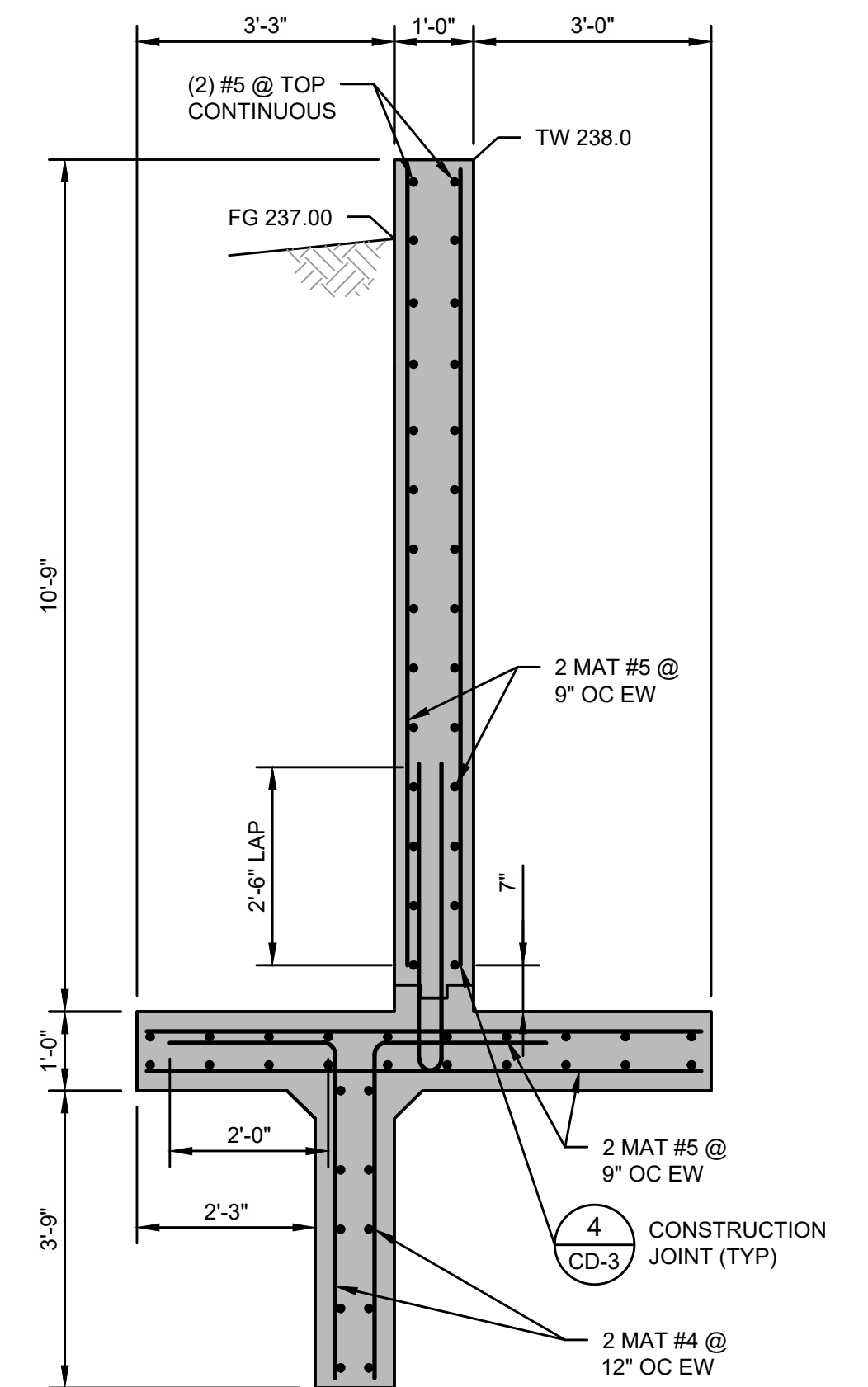
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<https://provostandpritchard.com/>

DESIGNED: KJ	DATE: 8-29-2024	RECORD DRAWING: RESIDENT ENGINEER	SCALE:	SUPERVISING ENGINEER: _____ DATE: _____ 	PROJECT: ELKHORN RECHARGE FACILITY	 DEPARTMENT OF PUBLIC WORKS AND PLANNING STRUCTURAL DETAILS	
DRAWN: SG	DATE: 8-29-2024				ROAD NO.:		
CHECKED: KJ	DATE: 8-29-2024				BRIDGE NO.:		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.					DRAWING NO. 11330		SHEET NO. S-1



CONVEYANCE CHANNEL INLET
RETAINING WALL AT PIPE



CONVEYANCE CHANNEL INLET
RETAINING WALL

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DESIGNED:	DATE	RECORD DRAWING		SCALE
KJ	8-29-2024	RESIDENT ENGINEER	DATE	
SG	8-29-2024			
KJ	8-29-2024			

SUPERVISING ENGINEER		DATE



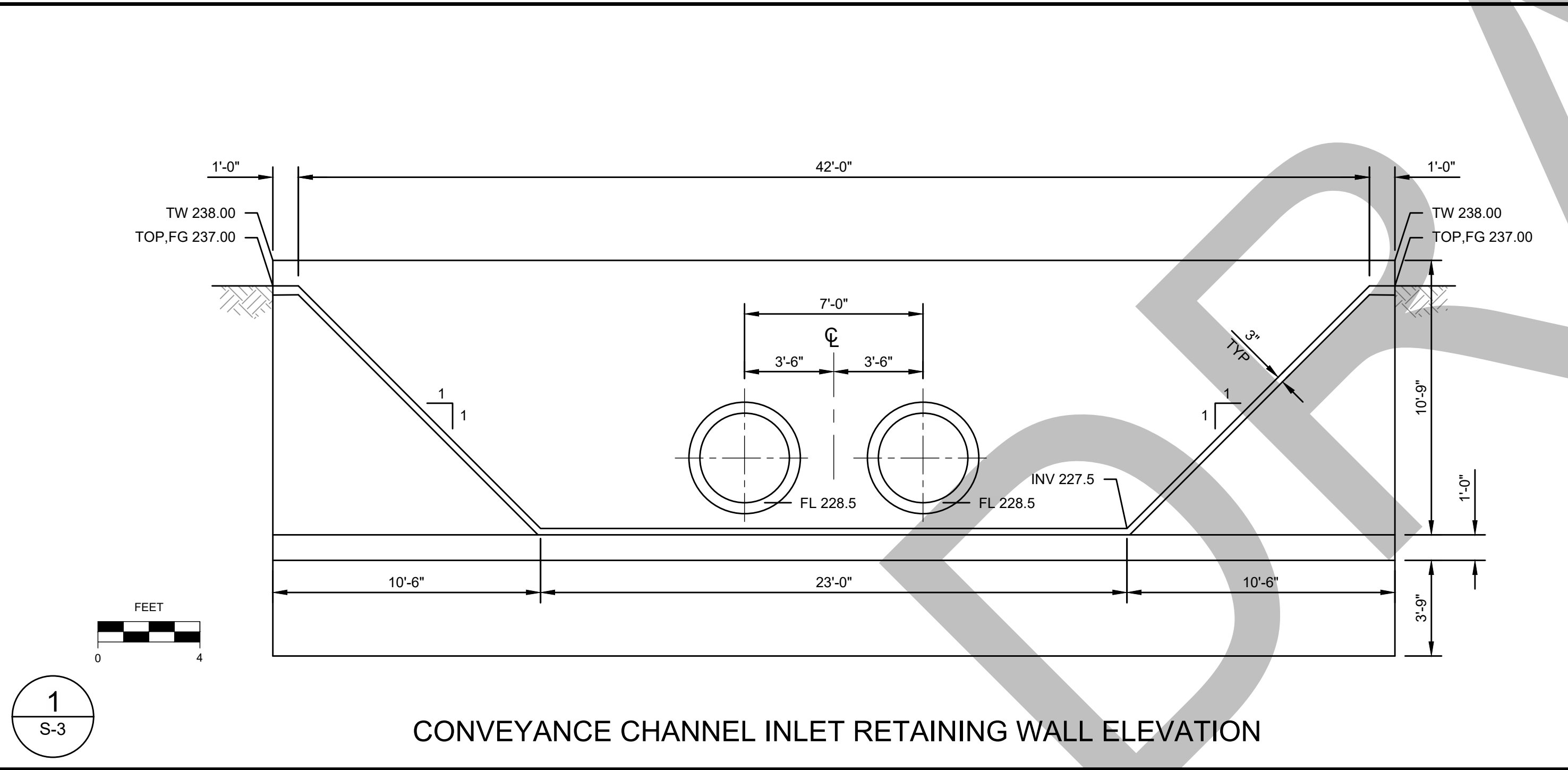
PROJECT	
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



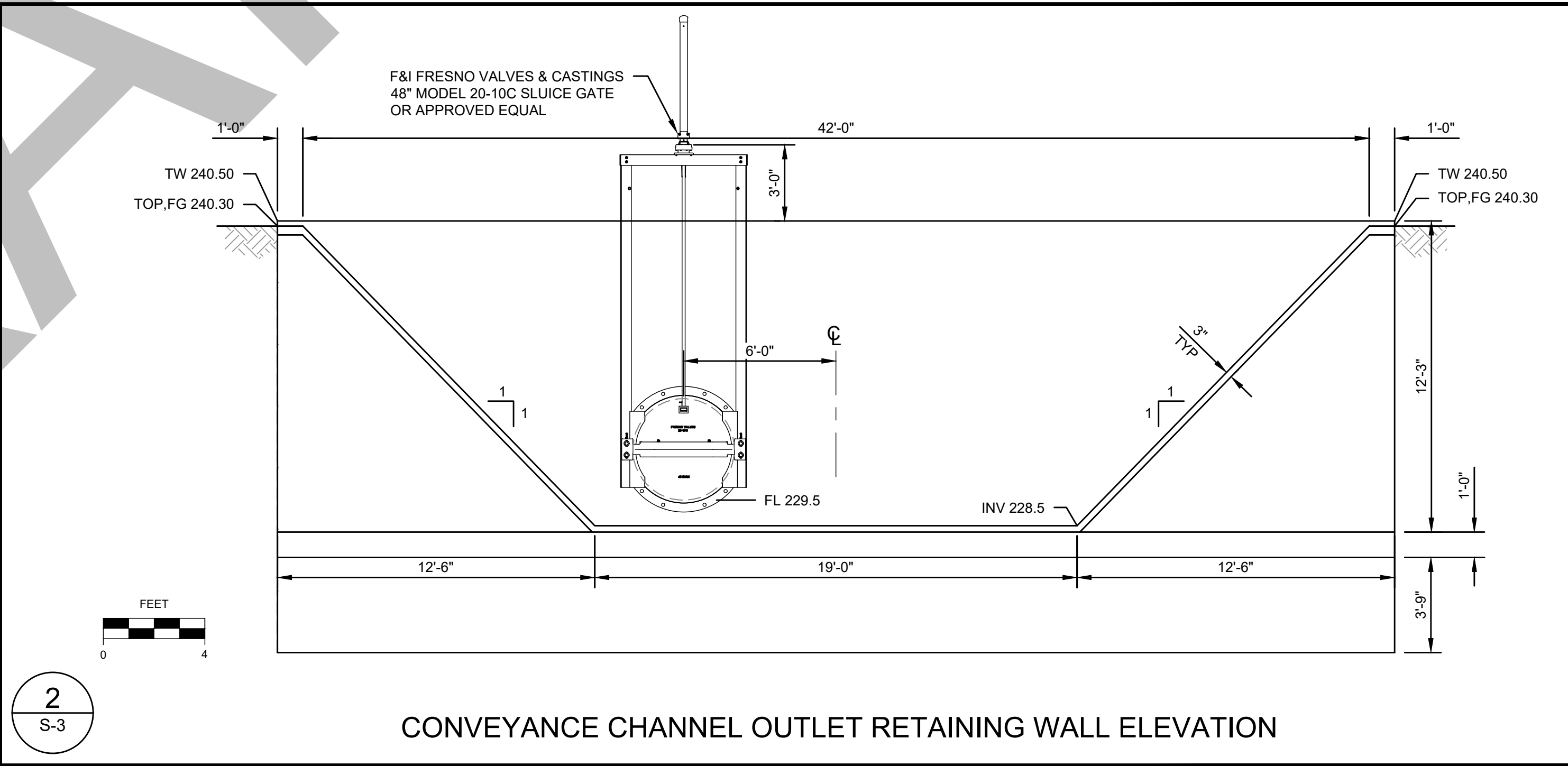
DEPARTMENT OF PUBLIC WORKS AND PLANNING		
STRUCTURAL DETAILS		
DRAWING NO. 11330	SHEET NO. S-2	TOTAL 30

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1
S-3
CONVEYANCE CHANNEL INLET RETAINING WALL ELEVATION



2
S-3
CONVEYANCE CHANNEL OUTLET RETAINING WALL ELEVATION

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KJ	8-29-2024	RESIDENT ENGINEER	DATE	
DRAWN:	8-29-2024			
CHECKED:	8-29-2024			

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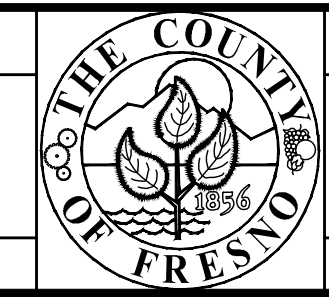
SUPERVISING ENGINEER

DATE



PROJECT
ELKHORN RECHARGE FACILITY
HWY 41 & ELKHORN AVE, FRESNO COUNTY

ROAD NO. _____ BRIDGE NO. _____

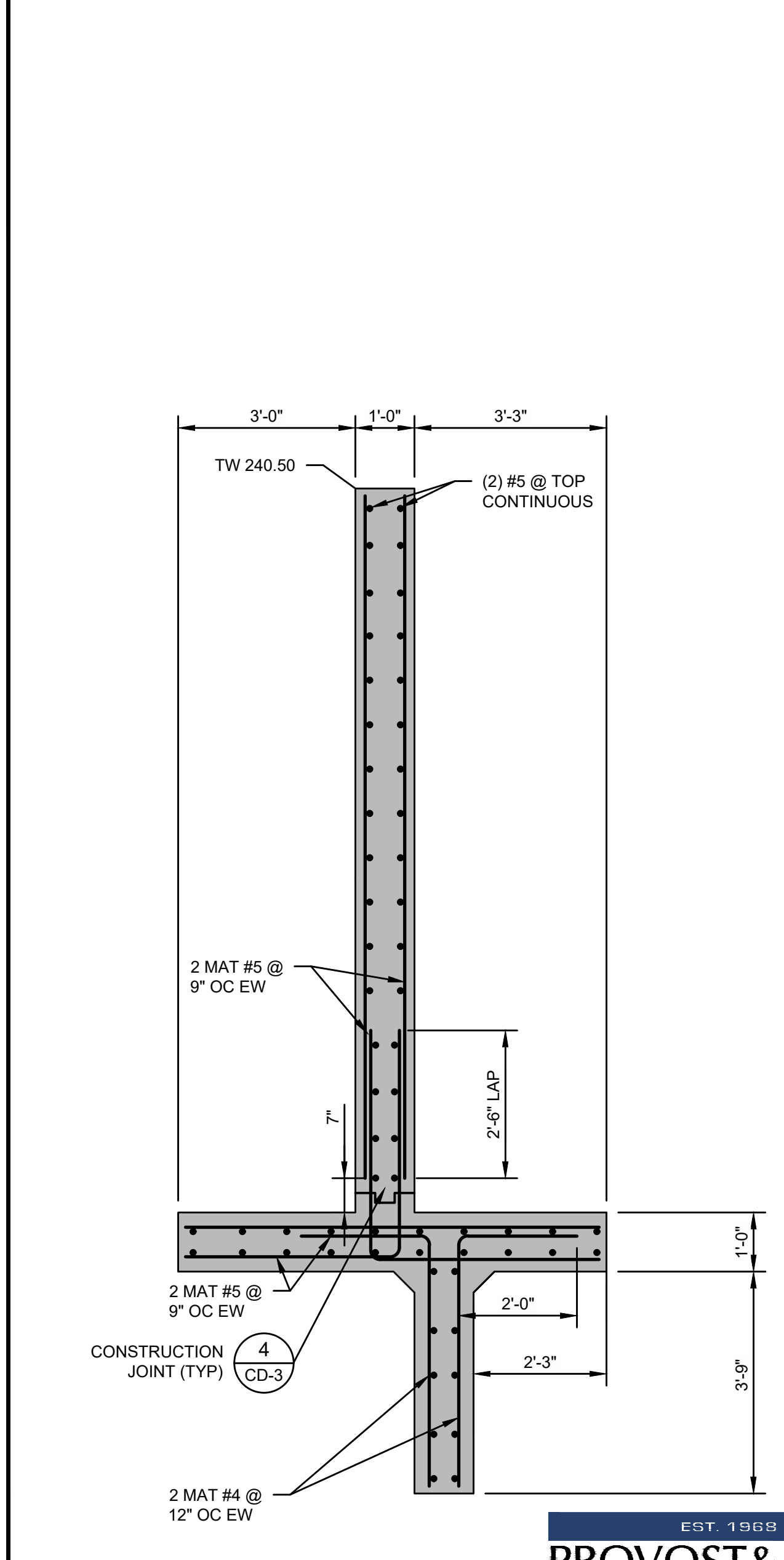
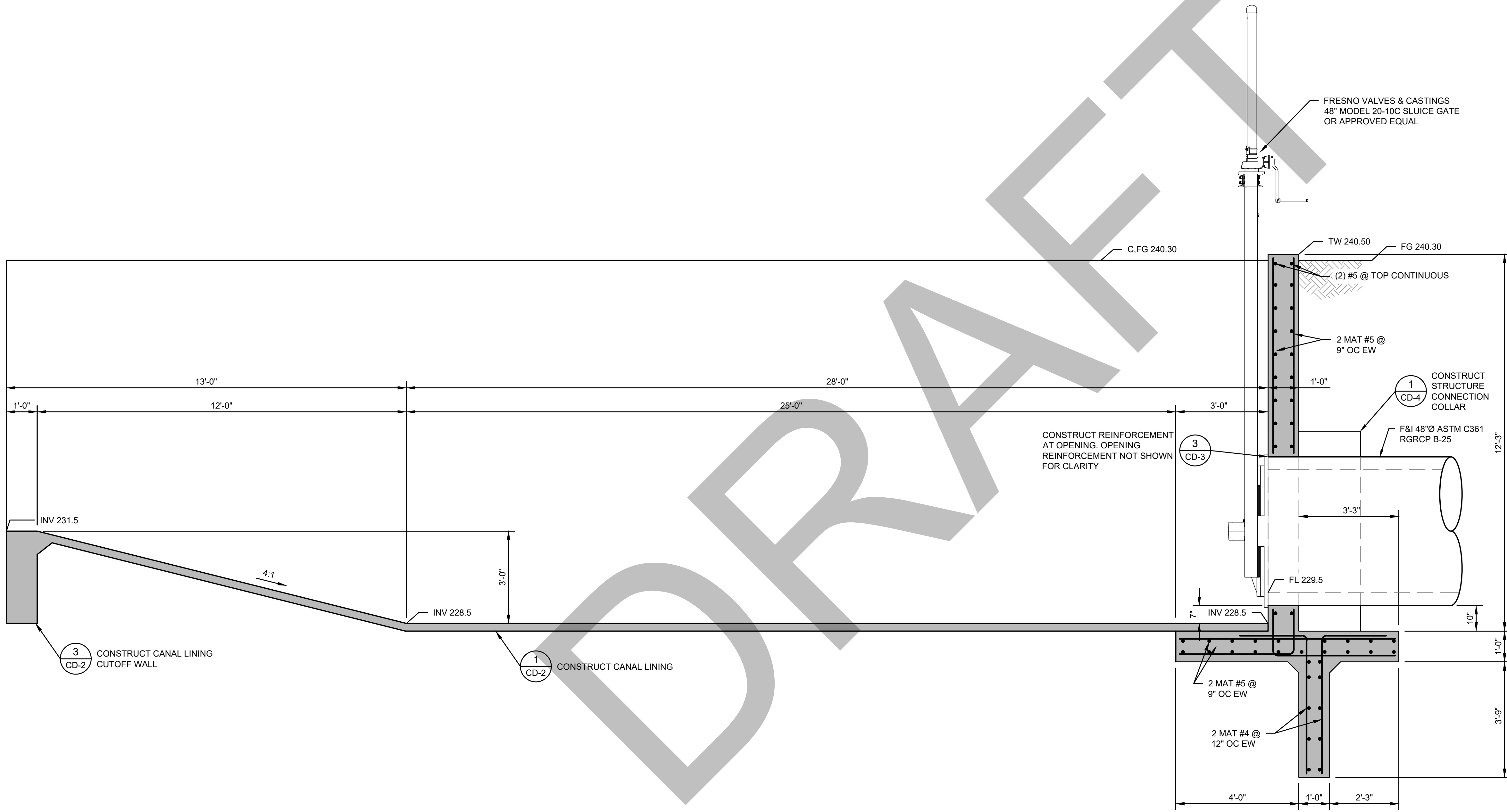


DEPARTMENT OF PUBLIC WORKS AND PLANNING

STRUCTURAL DETAILS

DRAWING NO. 11330 SHEET NO. S-3 TOTAL 30

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1
S-2

CONVEYANCE CHANNEL OUTLET
RETAINING WALL AT PIPE

2
S-2

CONVEYANCE CHANNEL OUTLET
RETAINING WALL

DESIGNED:	DATE	RECORD DRAWING		SCALE
KJ	8-29-2024	RESIDENT ENGINEER	DATE	
SG	8-29-2024			
KJ	8-29-2024			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER		DATE



PROJECT	
ELKHORN RECHARGE FACILITY	
HWY 41 & ELKHORN AVE, FRESNO COUNTY	
ROAD NO.	BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
STRUCTURAL DETAILS		
DRAWING NO. 11330	SHEET NO. S-4	TOTAL 30

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