

- ### CONSTRUCTION NOTES
- PROTECT IN PLACE (AS NOTED)
 - REMOVE FENCE. SEE SHEETS C-5 TO C-17
 - REMOVE MBGR
 - REMOVE HEADWALL
 - REMOVE RCB
 - GRIND EXISTING PAVEMENT PER DETAIL ON SHEET C-3
 - EXCAVATE AND CONSTRUCT 0.20' HMA (3/4" MIX) OVER 0.30' HMA (1" MIX) OVER 0.60' CLASS 2 AGGREGATE BASE
 - CONSTRUCT TYPE A-6 CURB AND GUTTER PER COUNTY STD NO. 200
 - CONSTRUCT HMA DIKE TYPE C PER CALTRANS STD A87B, SEE SHEET C-3 FOR LIMITS AND TRANSITION DETAILS
 - PLACE MICROSURFACE (TYPE 2) FROM EP TO EP
 - INSTALL WILDLIFE FENCE PER DETAILS ON SHEETS C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
 - INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
 - INSTALL MIDWEST GUARDRAIL SYSTEM WITH MGS DELINEATOR, SEE SHEET C-1, (MGS #)
 - INSTALL ALTERNATIVE CRASH CUSHION, TL-3, SEE SHEET C-1, (CC #)
 - RELOCATE TRAFFIC SIGNAL PER SHEET E-1
 - RELOCATE TRAFFIC PULLBOX PER SHEET E-1
 - CONSTRUCT CONCRETE BARRIER, TYPE 836 (MOD) PER CALTRANS RSP B11-80 & PER S-SHEETS. LIMITS PER CONCRETE BARRIER DETAILS, SEE SHEET C-1

- ### UTILITY LEGEND
- 1 e (oh) OH ELECTRIC (SCE) EXISTING
 - 2 - - - - - TELEPHONE (FRONTIER) EXISTING
 - 3 - - - - - GAS (SCG) EXISTING
 - 4 - - - - - TELEPHONE (FRONTIER) PROPOSED
 - POTHOLE LOCATION

- ### UTILITY NOTES:
- RELOCATE POWER POLE ANCHOR BY SCE
 - REPLACE POWER POLE BY SCE (PP NUMBER AS NOTED)
 - RELOCATE POWER POLE BY SCE (PP NUMBER AS NOTED)
 - RELOCATE TELEPHONE PEDESTAL BY FRONTIER
 - RELOCATE CABLE TV PEDESTAL BY FRONTIER
 - RELOCATE TELEPHONE BY FRONTIER

- ### LEGEND
- TEMP HIGH VIS FENCE (ESA)
 - PERMANENT FENCE
 - WILDLIFE FENCE
 - CONCRETE BARRIER
 - RETAINING WALL
 - RIGHT-OF-WAY (R/W)
 - EXIST EASEMENT (TYPE AS NOTED)
 - TEMPORARY CONSTRUCTION EASEMENT (TCE) LIMITS
 - SAWCUT
 - HINGE LINE (HL)
 - EDGE OF PAVEMENT (EP)
 - TOP OF SLOPE (CUT)
 - TOE OF SLOPE (FILL)
 - SLOPE EASEMENT
 - DRAINAGE EASEMENT
 - CONSTRUCTION STAGING AREA
- NAME: APN 222-222-222
PROPERTY OWNER AND ASSESSOR PARCEL NUMBER (APN) ALONG GILMAN SPRINGS ROAD
- EXIST PP
RELOCATED PP
UTILITY POLE
RELOCATION
- SCALE: 1" = 40'

EP CURVE DATA (CONT'D)

NO.	DELTA	RADIUS	LENGTH	TANGENT
24	51°57'38"	60.00'	54.41'	29.24'
25	12°20'01"	111.00'	23.89'	11.99'
26	01°15'29"	2830.84'	62.16'	31.08'
27	03°47'57"	922.25'	61.15'	30.59'
28	00°02'23"	146,709.00'	101.75'	50.88'
29	13°36'43"	2873.84'	682.74'	342.99'
30	02°56'02"	1896.74'	97.13'	48.57'
31	00°08'53"	15188.63'	39.26'	19.63'
32	17°38'50"	2834.84'	873.14'	440.05'

CENTERLINE CURVE DATA

NO.	DELTA	RADIUS	LENGTH	TANGENT
D	18°54'01"	1312.34'	432.91'	218.44'
E	09°49'23"	2854.34'	489.36'	245.28'
F	13°36'43"	2854.34'	678.11'	340.66'

EP CURVE DATA

NO.	DELTA	RADIUS	LENGTH	TANGENT
20	17°46'35"	1286.70'	399.21'	201.22'
21	18°54'01"	1261.65'	416.18'	210.00'
22	05°57'31"	2877.84'	299.29'	149.78'
23	68°03'45"	60.00'	71.27'	40.52'

- ### NOTES:
- CONTRACTOR TO LOCATE EXISTING UTILITIES AND PLACE POSTS (INCLUDING GUARDRAIL AND FENCE POSTS) TO MISS EXISTING UTILITIES. CONTACT ENGINEER WITH ANY CONFLICTS.
 - SEE SHEETS C-5 TO C-22 FOR FENCE DETAILS.
 - SIGNAL MODIFICATION PER SHEET E-1.
 - SEE SHEET P-1 FOR ROADWAY PROFILE FROM STA 232+00 TO STA 234+10
 - SEE SHEETS C-5 TO C-22 FOR ESA FENCE LOCATION.

MARK	REVISIONS	BY	APPR.	DATE
▲	ADDED MISSING POTHOLE			04/09/2024
▲	CORRECTED POTHOLE NUMBERS			04/09/2024

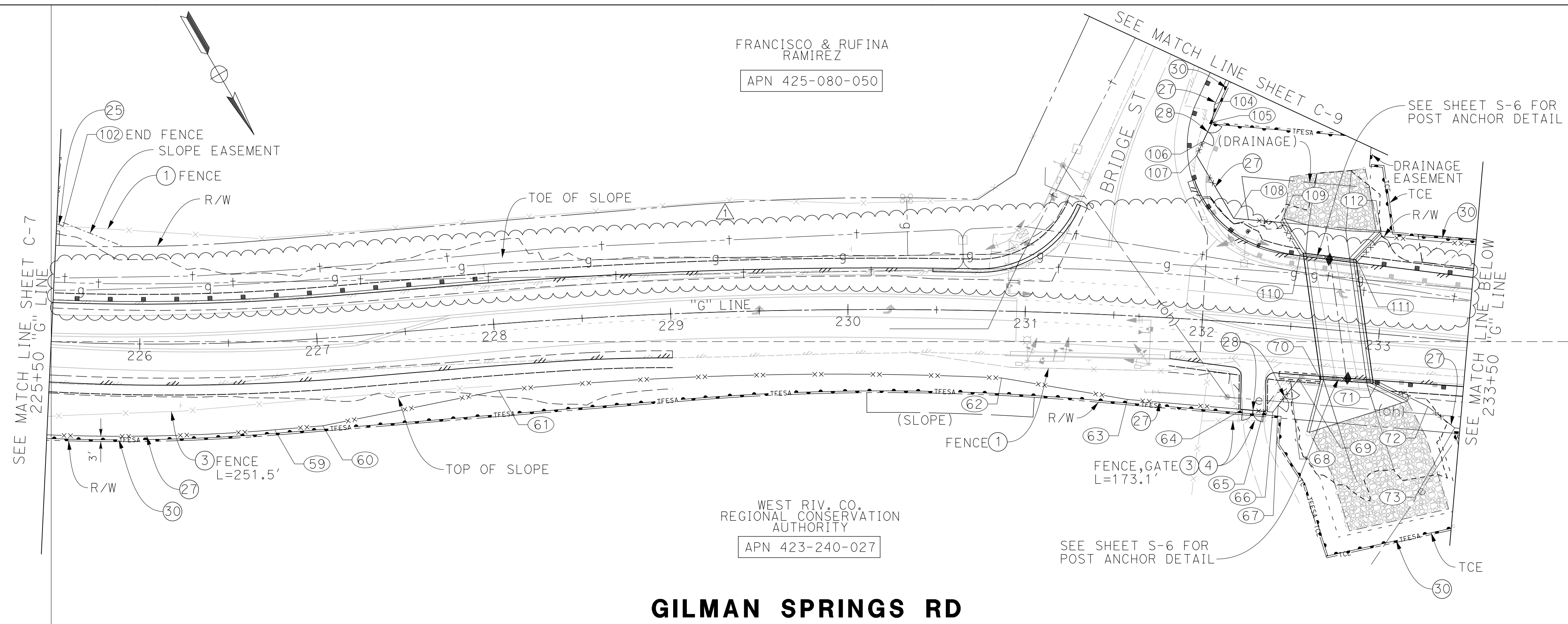
PREPARED BY
ALMA DE SANTIAGO
PROJECT ENGINEER
4740 GREEN RIVER RD, STE 218
CORONA, CA 92880

PREPARED UNDER THE SUPERVISION OF:
02/22/2024
DATE

LAYOUT PLAN
HSIP-GILMAN SPRINGS RD
FROM 8,920' S/O ALESSANDRO BLVD TO 5,340' S/O BRIDGE ST
"G" LINE STA 225+50 TO 240+50

SHEET No.
L-4
SHEET 13 OF 119

ISSUED BY ADDENDUM No. 2, ATTACHMENT "A"
DATE PLOTTED => 4/9/2024
TIME PLOTTED => 5:21:42 PM
00-00-00



CONSTRUCTION NOTES

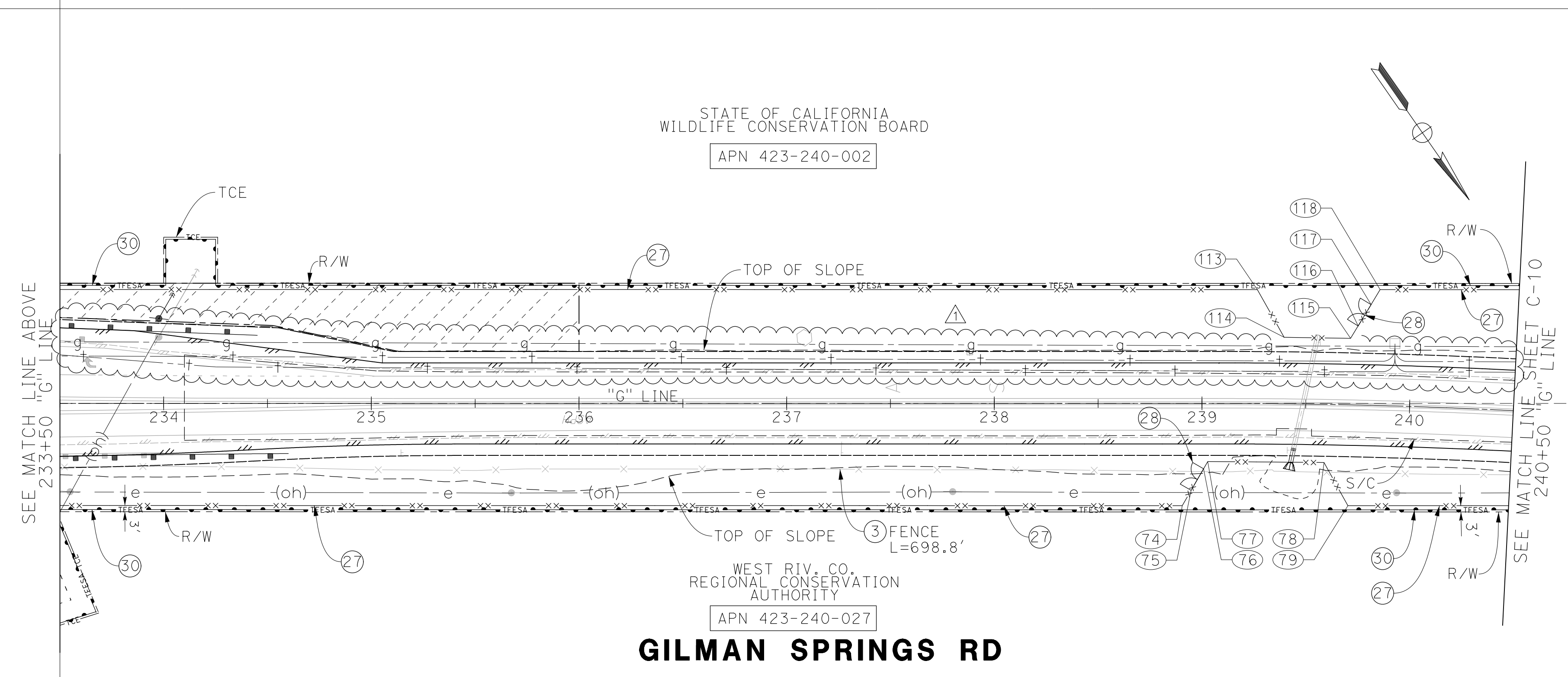
- 1 PROTECT IN PLACE (AS NOTED)
- 3 REMOVE FENCE, SEE SHEETS C-5 TO C-17
- 4 REMOVE GATE
- 25 INSTALL METAL POST BARBED WIRE FENCE PER CALTRANS STD A86. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
- 27 INSTALL WILDLIFE FENCE PER DETAILS ON SHEETS C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
- 28 INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
- 30 INSTALL TEMPORARY HIGH VISIBILITY FENCE (ESA)

NOTES:

1. CONTRACTOR TO LOCATE EXISTING UTILITIES AND PLACE POSTS (INCLUDING GUARDRAIL AND FENCE POSTS) TO MISS EXISTING UTILITIES. CONTACT ENGINEER WITH ANY CONFLICTS.
2. THE TYPE ESA FENCE BOUNDARIES SHOWN ARE APPROXIMATE; THE COUNTY MARKS THE EXACT TYPE ESA FENCE BOUNDARIES ON THE GROUND

UTILITY LEGEND

- 1 e (oh) OH ELECTRIC (SCE) EXISTING
- 2 - - - - - TELEPHONE (FRONTIER) EXISTING
- 3 - - - - - GAS (SCG) EXISTING
- 4 - - - - - TELEPHONE (FRONTIER) PROPOSED
- POTHOLE LOCATION



LEGEND

- TFESA TEMP HIGH VIS FENCE (ESA)
 - PERMANENT FENCE
 - WILDLIFE FENCE
 - CONCRETE BARRIER
 - RETAINING WALL
 - RIGHT-OF-WAY (R/W)
 - EXIST EASEMENT (TYPE AS NOTED)
 - TEMPORARY CONSTRUCTION EASEMENT (TCE) LIMITS
 - SAWGUT
 - HINGE LINE
 - EDGE OF PAVEMENT (EP)
 - TOP OF SLOPE (CUT)
 - TOE OF SLOPE (FILL)
 - SLOPE EASEMENT
 - DRAINAGE EASEMENT
 - CONSTRUCTION STAGING AREA
- NAME
APN 222-222-222
- EXIST PP
 - RELOCATED PP
 - (XX) FENCE POINT, SEE SHEETS C-18 TO C-22 FOR STATION LIMITS
- SCALE: 1" = 40'

PREPARED BY

PREPARED UNDER THE SUPERVISION OF:

MARK S. READER
No. 44917
Exp. 3/31/24
CIVIL ENGINEER
STATE OF CALIFORNIA

Mark Reader 02/22/2024
DATE

MARK S. READER
PROJECT MANAGER
NCM ENGINEERING
4740 GREEN RIVER RD, STE 218
CORONA, CA 92880

CONSTRUCTION DETAILS

HSIP-GILMAN SPRINGS RD

FROM 8,920' S/O ALESSANDRO BLVD TO 5,340' S/O BRIDGE ST

FENCE LAYOUT
"G" LINE STA 225+50 TO 240+50

SHEET No.

C-8

SHEET 33 OF 119

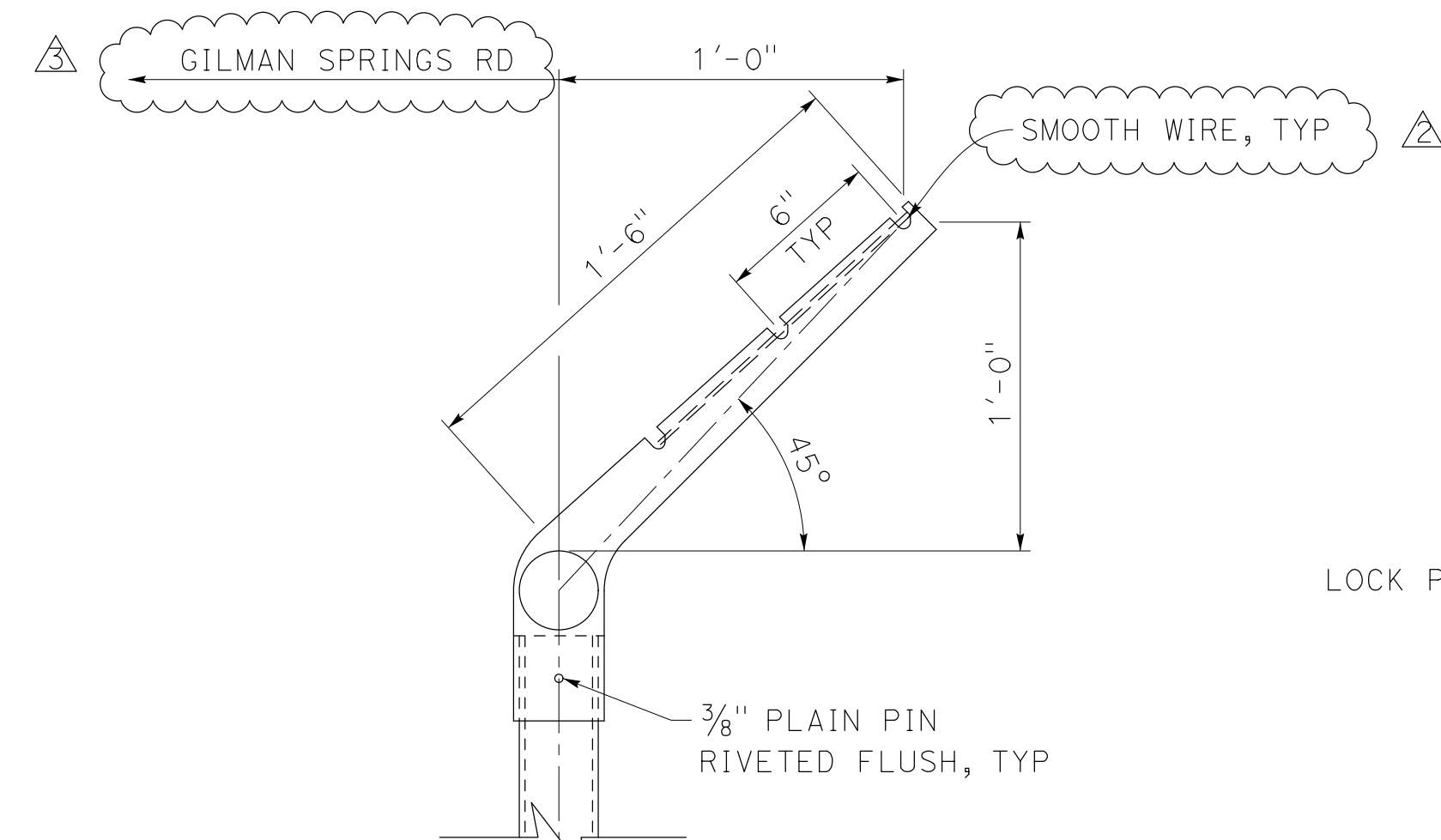
▲	ADDED MISSING TELEPHONE LINE	NCM	ADDEN#1	04/08/2024
MARK	REVISIONS	BY	APPR.	DATE

ISSUED BY ADDENDUM No. 2, ATTACHMENT "A"

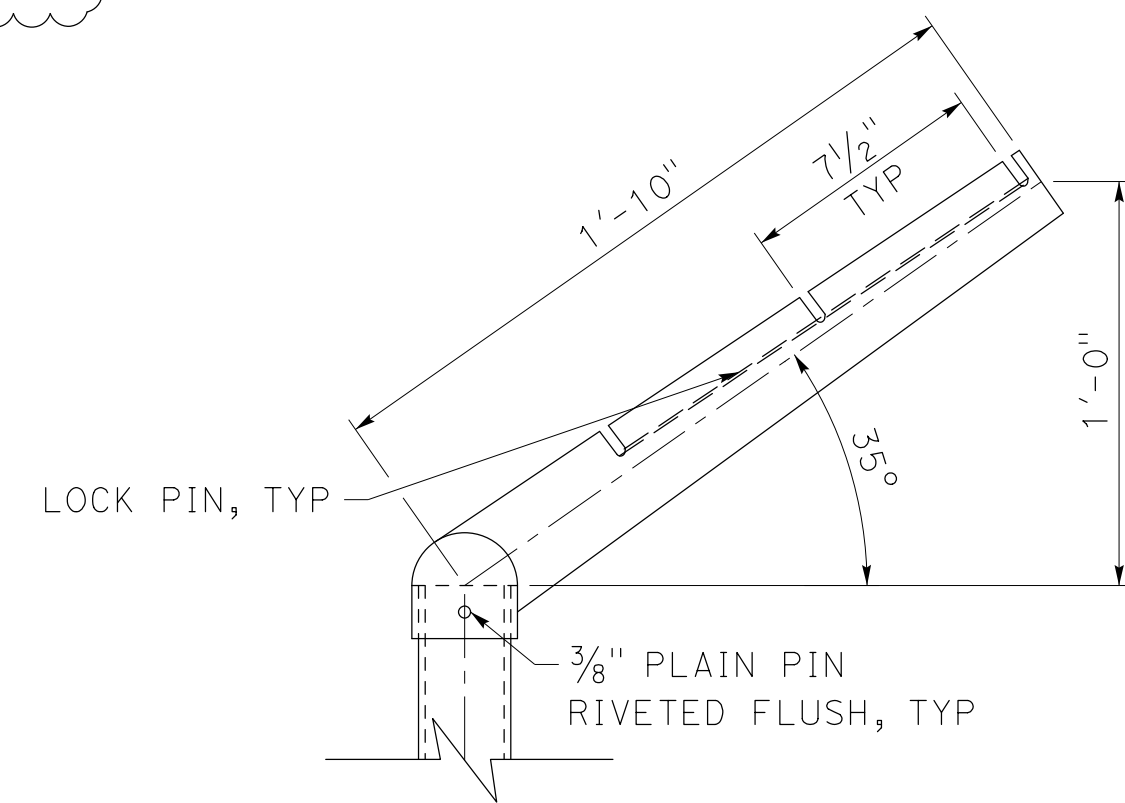
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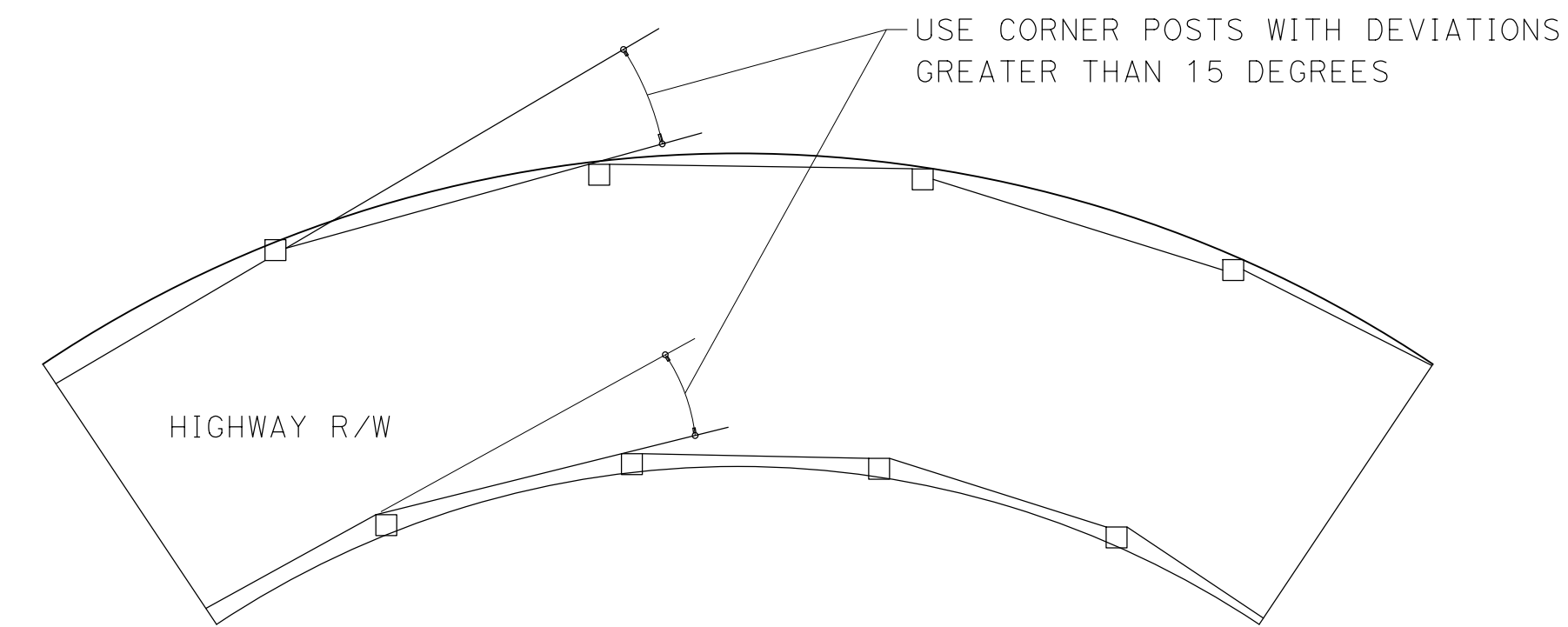
1. FOR DETAILS NOT SHOWN SEE STANDARD PLANS A85, A85A, AND A85B.



LINE POST



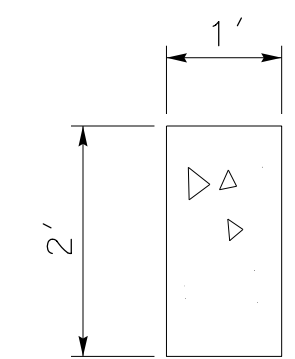
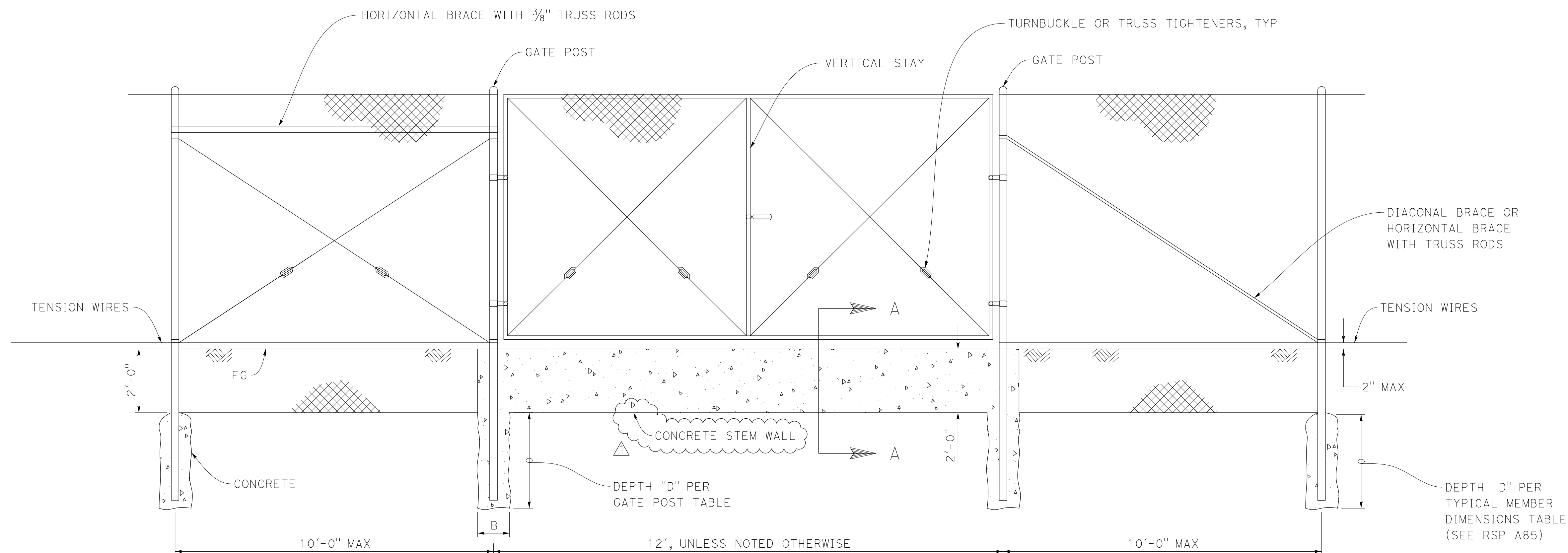
CORNER POST



WILDLIFE GATE INSTALLATION

TYPICAL

SMOOTH WIRE POST TOP



SECTION A-A

WILDLIFE GATE INSTALLATION

NTS

MARK	REVISIONS	BY	APPR.	DATE
△	CLARIFIED DIRECTION OF WIRE TOPPER	NCM	ADDEN#1	04/09/2024
△	CHANGED BARBED WIRE TO SMOOTH WIRE	NCM	ADDEN#1	04/09/2024
△	NOTED MATERIAL FOR GATE WALL	NCM	ADDEN#1	04/09/2024

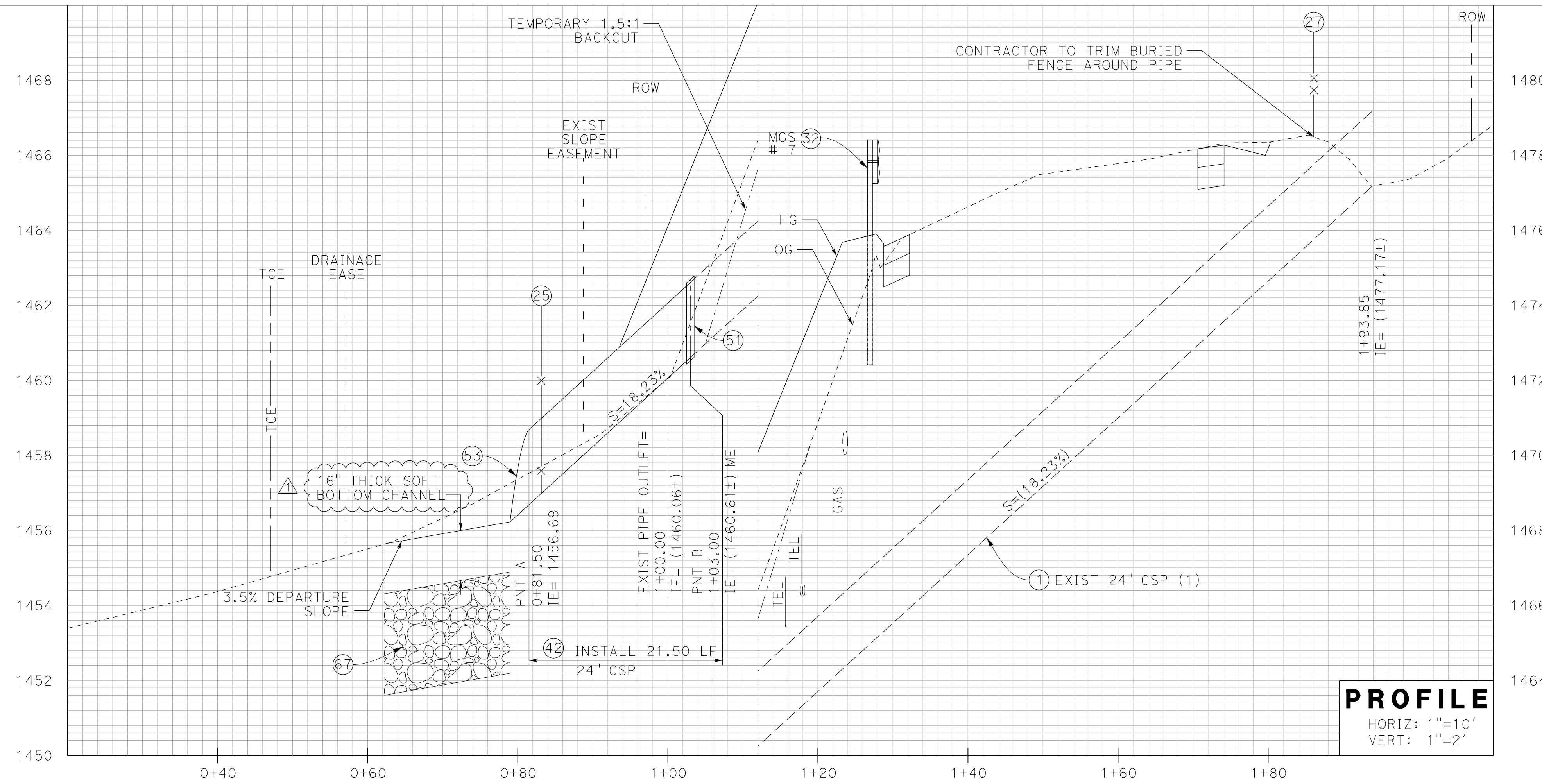
PREPARED BY
 PREPARED UNDER THE SUPERVISION OF:

 Mark S. Reader
 PROJECT MANAGER
 NCM ENGINEERING
 4740 GREEN RIVER RD, STE 218
 CORONA, CA 92880
 DATE: 02/22/2024

CONSTRUCTION DETAILS
HSIP-GILMAN SPRINGS RD
 FROM 8,920' S/O ALESSANDRO
 BLVD TO 5,340' S/O BRIDGE ST

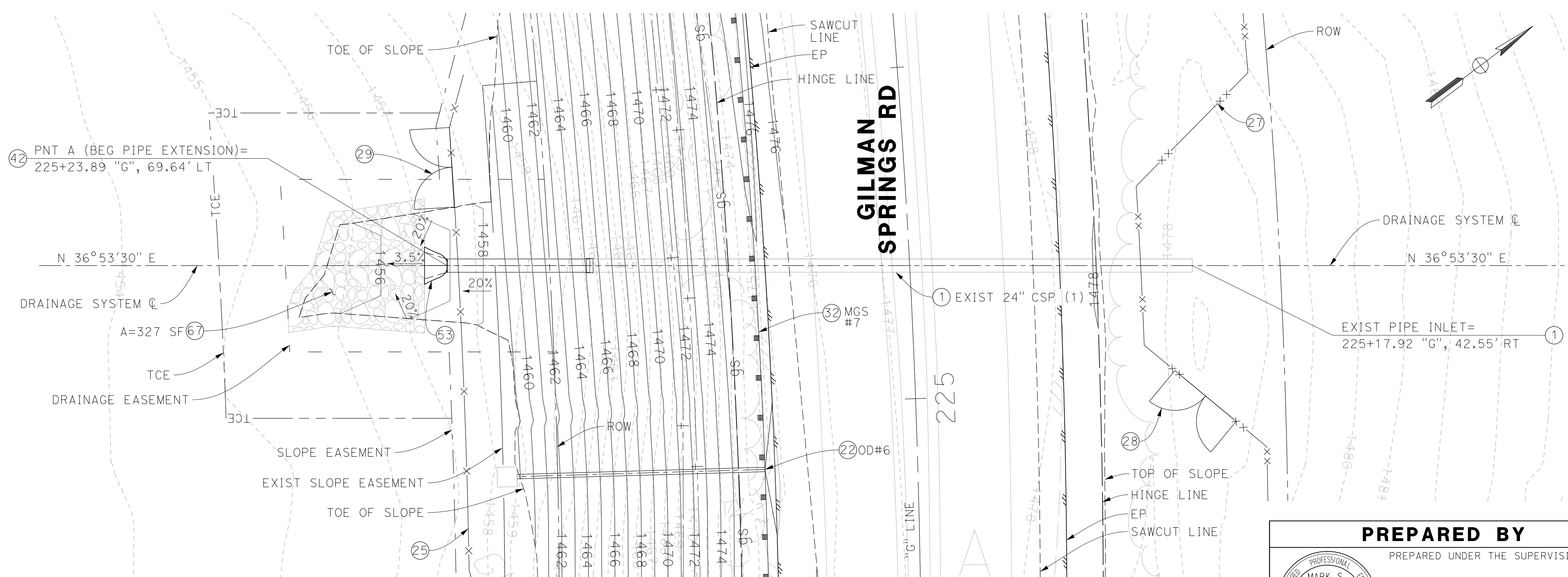
SHEET No.
C-28
 SHEET 53 of 119

ISSUED BY ADDENDUM No. 2, ATTACHMENT "A"
 LAST REVISION: DATE PLOTTED => 4/9/2024
 TIME PLOTTED => 5:21:50 PM
 00-00-00



- CONSTRUCTION NOTES:**
- ① PROTECT IN PLACE (AS NOTED)
 - ②② INSTALL 8" CORRUGATED METAL PIPE DOWNDRAIN PER CALTRANS STD D87A. SEE SHEET C-4 FOR DETAILS (OD #)
 - ②⑤ INSTALL METAL POST BARBED WIRE FENCE PER CALTRANS STD A86. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
 - ②⑦ INSTALL WILDLIFE FENCE PER DETAILS ON SHEETS C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
 - ②⑧ INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
 - ②⑨ INSTALL WIRE MESH GATE PER CALTRANS STD A86; LENGTH (L)=12' UNLESS NOTED OTHERWISE
 - ③② INSTALL MIDWEST GUARDRAIL SYSTEM WITH MGS DELINEATOR, SEE SHEET C-1, (MGS #)
 - ④② INSTALL 24" CSP
 - ⑤① INSTALL CORRUGATED METAL PIPE HUGGER COUPLING BAND PER CALTRANS D97D AND D97E
 - ⑤③ INSTALL METAL FLARED END SECTION PER CALTRANS STD PLAN D94A
 - ⑥⑦ INSTALL ROCK SLOPE PROTECTION (1/4 TON, 2.7' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8

PROFILE
 HORIZ: 1"=10'
 VERT: 1"=2'



1-24" CSP
STA 225+20
 1" = 10'

MARK	REVISIONS	BY	APPR.	DATE
▲	ADDED A SOFT BOTTOM ON TOP OF RIP RAP	NCM	ADDEN#1	04/09/2024

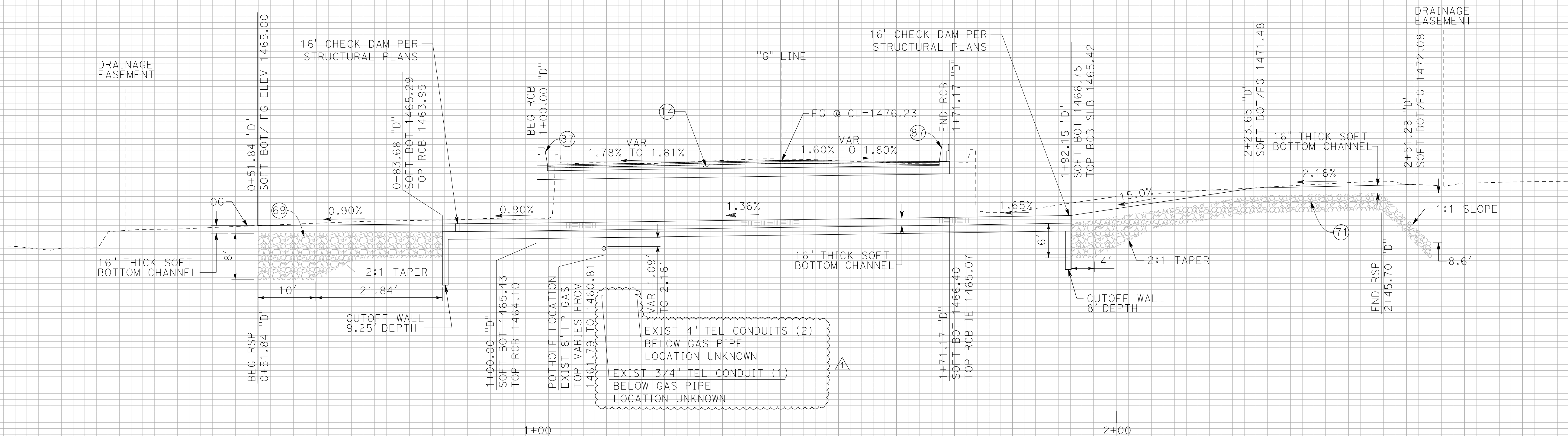
PREPARED BY
 PREPARED UNDER THE SUPERVISION OF:

 MARK S. READER
 PROJECT MANAGER
 NCM ENGINEERING
 4740 GREEN RIVER RD, STE 218
 CORONA, CA 92880
 DATE: 02/22/2024

DRAINAGE PLAN & PROFILE SHEET No.
HSIP-GILMAN SPRINGS RD
 FROM 8,920' S/O ALESSANDRO
 BLVD TO 5,340' S/O BRIDGE ST
 1-24" CSP
 STA 225+20
D-5
 SHEET 72 OF 119

CONSTRUCTION NOTES:

- ⑭ EXCAVATE & CONSTRUCT 0.20' HMA (3/4" MIX) OVER 0.30' HMA (1" MIX) OVER 0.60' CLASS 2 AGGREGATE BASE
- ⑮ CONSTRUCT RCB PER STRUCTURAL PLANS
- ⑯ INSTALL ROCK SLOPE PROTECTION (1 TON, 4.5' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8
- ⑰ INSTALL CONCRETE GROUTED ROCK SLOPE PROTECTION, (1/4 TON, MIN 3' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8. THE STONE MUST PROTRUDE 4" MIN THROUGH THE GROUT TO PROVIDE FLOW RESISTANCE.
- ⑱ CONSTRUCT CONCRETE BARRIER, TYPE 836 (MOD) PER CALTRANS RSP B11-80 & PER S-SHEETS. LIMITS PER CONCRETE BARRIER DETAILS, SEE SHEET C-1



**WILDLIFE CROSSING RCB
STA 232+77.84
PROFILE**
HORIZ: 1"=10'
VERT: 1"=10'

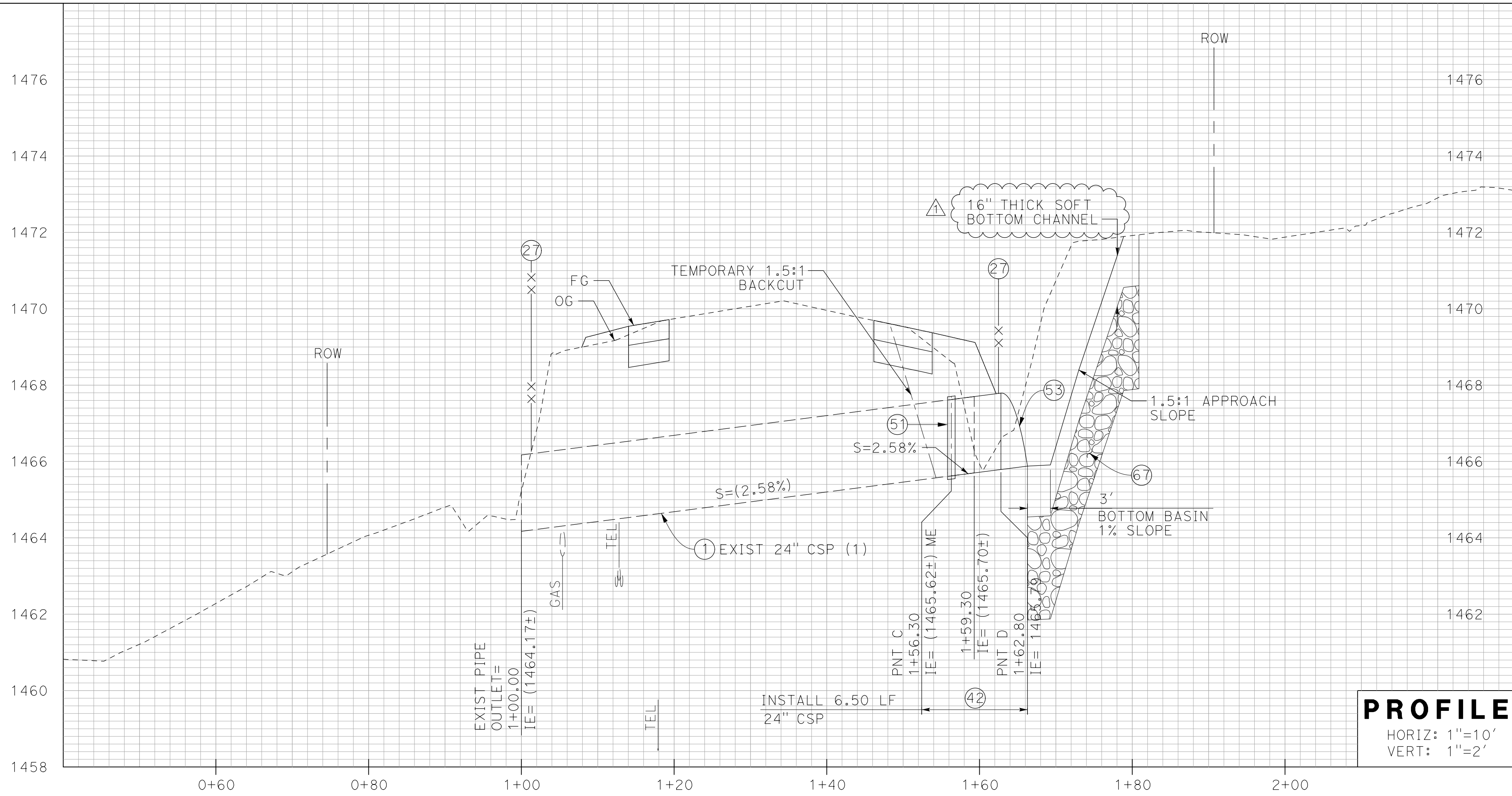
ISSUED BY ADDENDUM No. 2, ATTACHMENT "A"

MARK	REVISIONS	BY	APPR.	DATE
△	REVISED & ADDED NOTES FOR EXIST TEL LINES	NCM	ADDEN#1	04/09/2024

PREPARED BY
PREPARED UNDER THE SUPERVISION OF:
Mark Reader 02/22/2024
DATE
MARK S. READER
PROJECT MANAGER
NCM ENGINEERING
4740 GREEN RIVER RD, STE 218
CORONA, CA 92880

DRAINAGE PLAN & PROFILE SHEET No.
HSIP-GILMAN SPRINGS RD
FROM 8,900' S/O ALESSANDRO
BLVD TO 5,100' S/O BRIDGE ST
WILDLIFE CROSSING RCB
STA 232+77.84

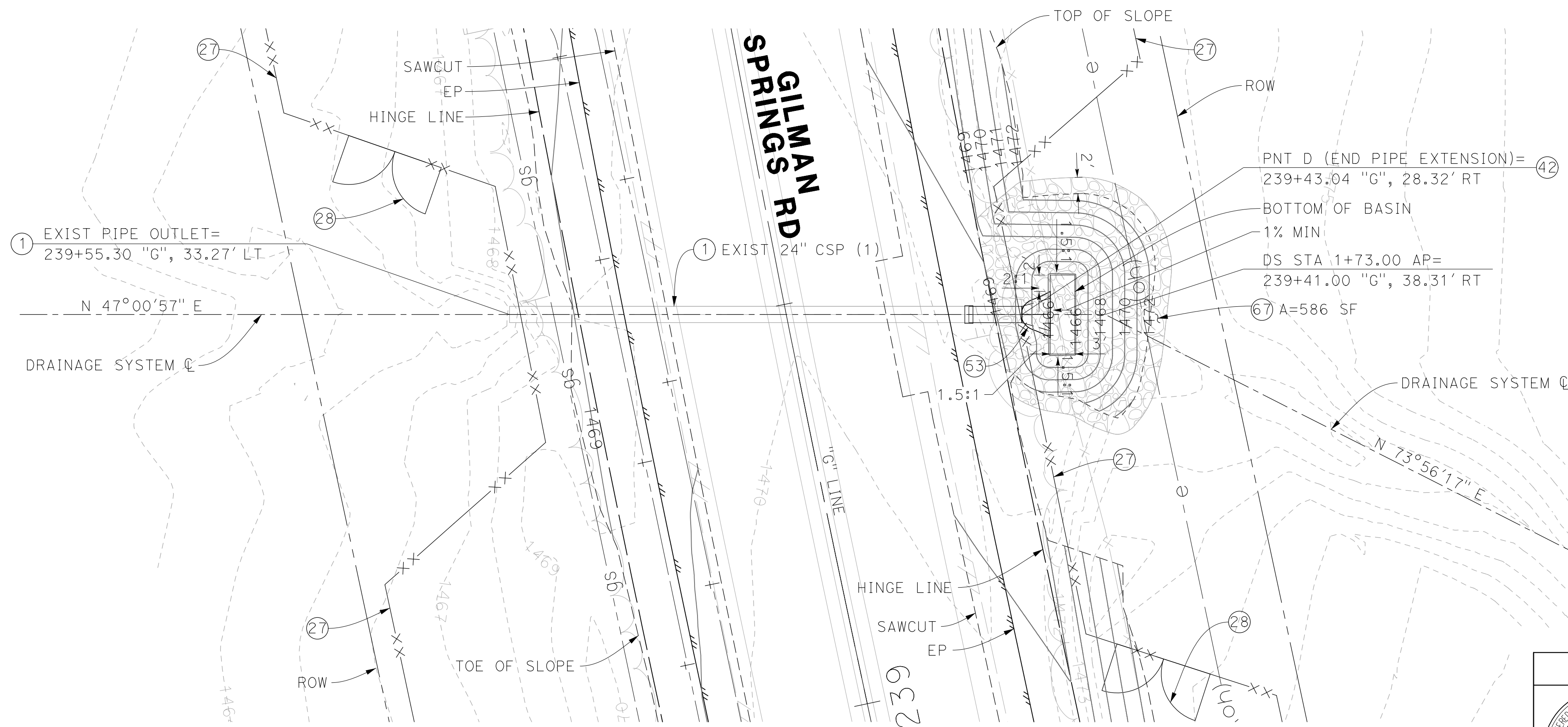
D-6A
SHEET 74 OF 119



CONSTRUCTION NOTES:

- ① PROTECT IN PLACE (AS NOTED)
- ②7 INSTALL WILDLIFE FENCE PER DETAILS ON SHEET C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
- ②8 INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
- ④2 INSTALL 24" CSP
- ⑤1 INSTALL CORRUGATED METAL PIPE HUGGER COUPLING BAND PER CALTRANS D97D AND D97E
- ⑤3 INSTALL METAL FLARED END SECTION PER CALTRANS STD PLAN D94A
- ⑥7 INSTALL ROCK SLOPE PROTECTION (1/4 TON, 2.7' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8

PROFILE
 HORIZ: 1"=10'
 VERT: 1"=2'



1-24" CSP
STA 239+49
 1" = 10'

MARK	REVISIONS	BY	APPR.	DATE
▲	ADDED A SOFT BOTTOM ON TOP OF RIP RAP	NCM	ADDEN#1	04/09/2024

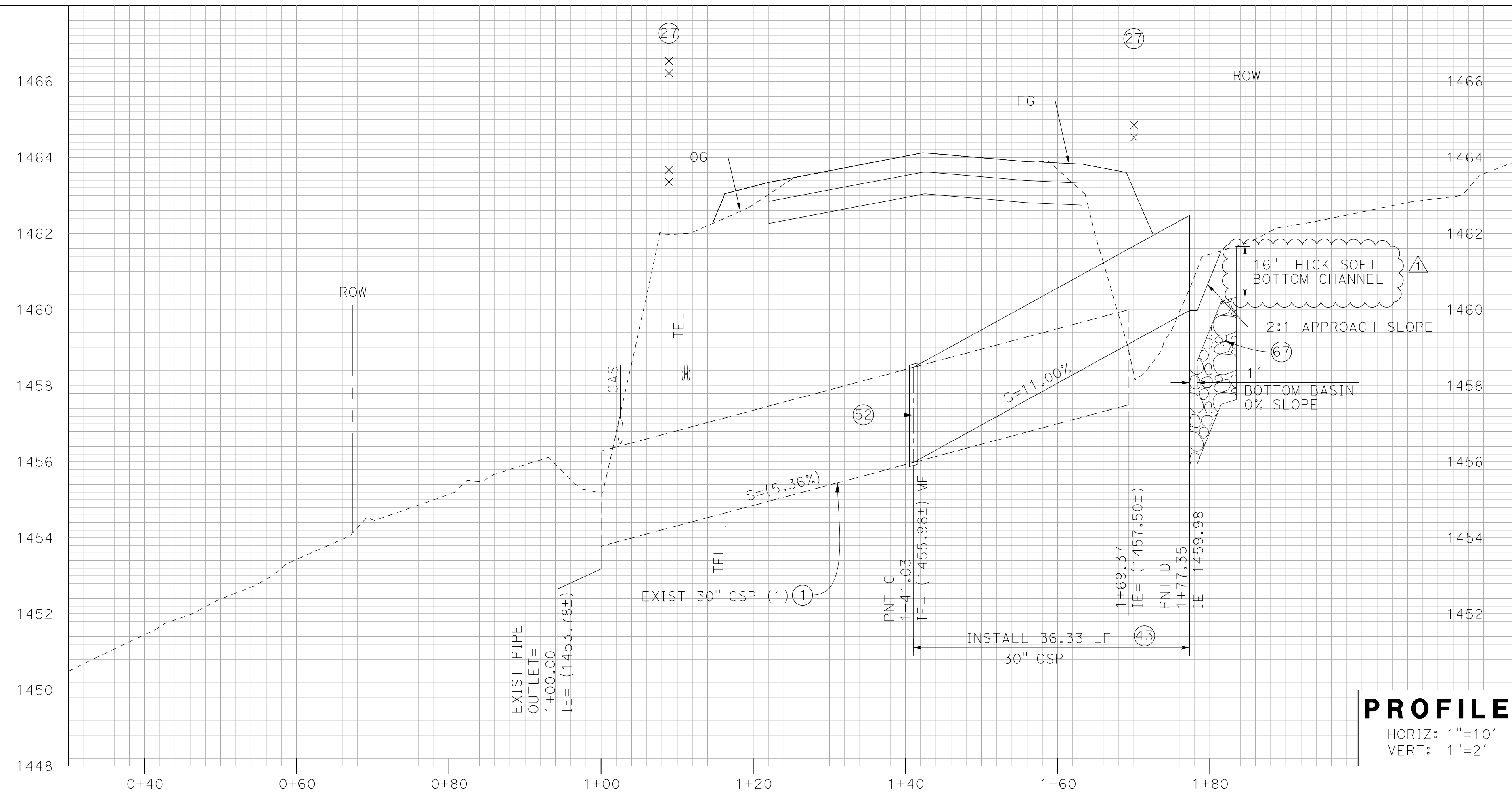
PREPARED BY
 PREPARED UNDER THE SUPERVISION OF:
 MARK S. READER
 No. 44917
 Exp. 3/31/24
 CIVIL ENGINEER
 STATE OF CALIFORNIA

Mark Reader 02/22/2024
 DATE

MARK S. READER
 PROJECT MANAGER
 NCM ENGINEERING
 4740 GREEN RIVER RD, STE 218
 CORONA, CA 92880

DRAINAGE PLAN & PROFILE SHEET No.
HSIP-GILMAN SPRINGS RD
 FROM 8,920' S/O ALESSANDRO
 BLVD TO 5,340' S/O BRIDGE ST
 1-24" CSP
 STA 239+49

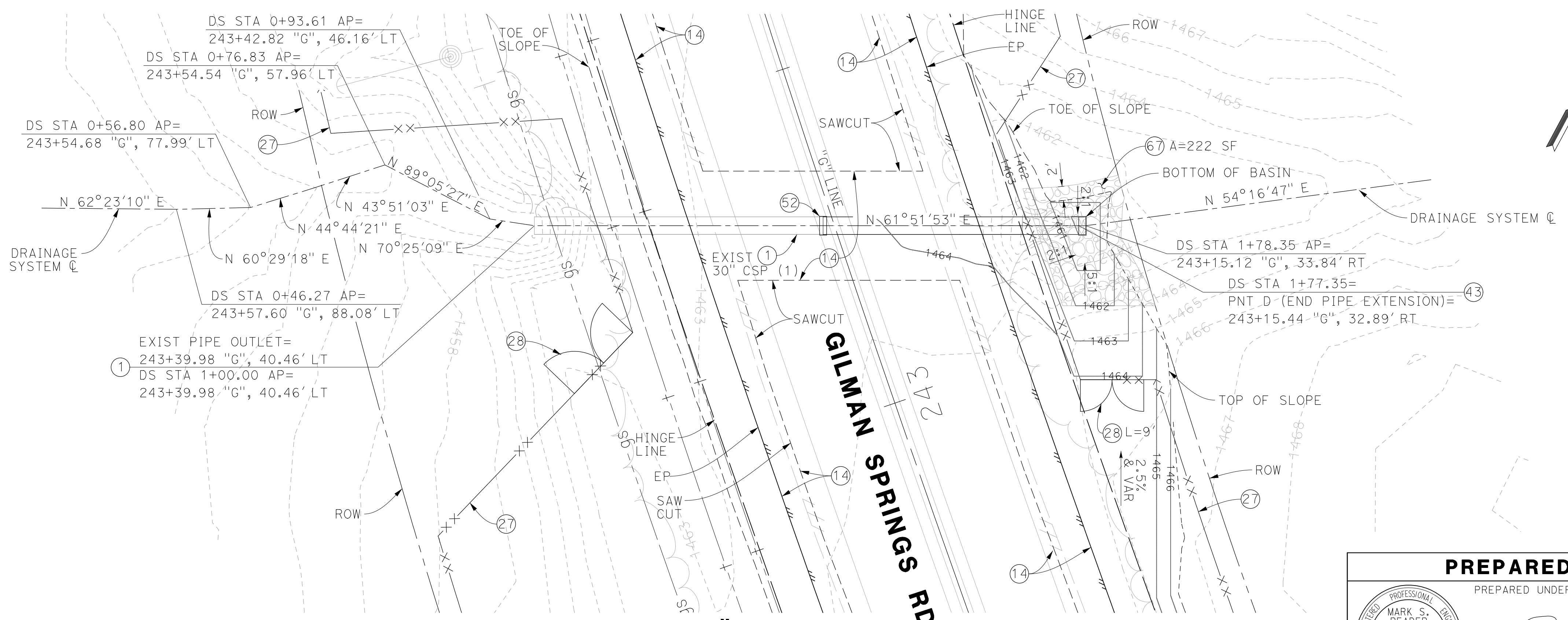
D-7
 SHEET 75 of 119



PROFILE
 HORIZ: 1"=10'
 VERT: 1"=2'

CONSTRUCTION NOTES:

- ① PROTECT IN PLACE (AS NOTED)
- ⑭ EXCAVATE AND CONSTRUCT 0.20' (3/4" MIX) OVER 0.30' HMA (1" MIX) OVER 0.60' CLASS AGGREGATE BASE
- ⑳ INSTALL WILDLIFE FENCE PER DETAILS ON SHEETS C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
- ㉘ INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
- ㉛ INSTALL 30" CSP
- ㉜ INSTALL CONCRETE COLLAR PER RIVERSIDE COUNTY FLOOD CONTROL STANDARD DRAWING M803
- ㉞ INSTALL ROCK SLOPE PROTECTION (1/4 TON, 2.7' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8



**1-30" CSP
 STA 243+27**
 1" = 10'

PREPARED BY
 MARK S. READER
 No. 44917
 Exp. 3/31/24
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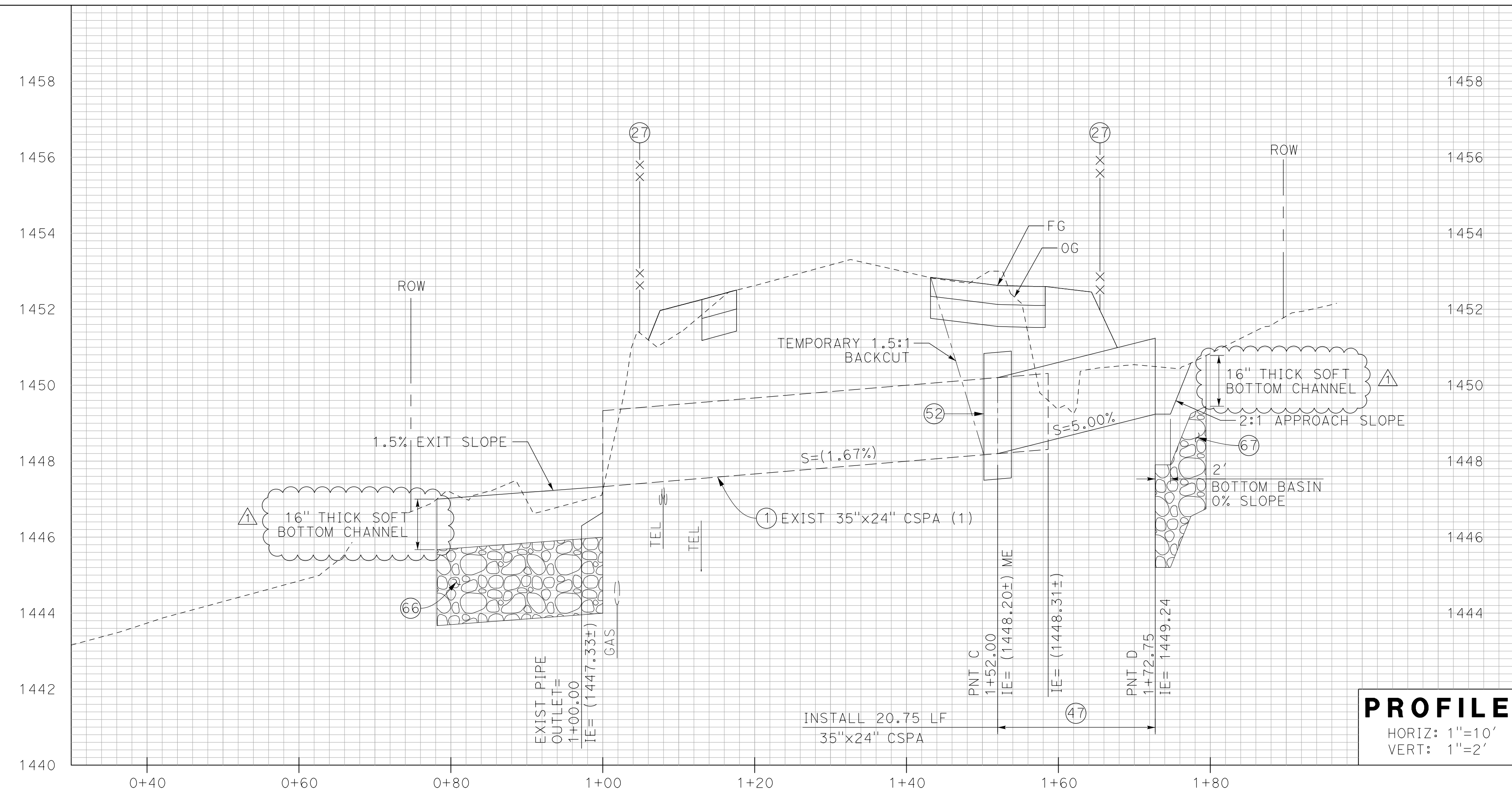
PREPARED UNDER THE SUPERVISION OF:
 Mark Reader 02/22/2024
 DATE

MARK S. READER
 PROJECT MANAGER
 NCM ENGINEERING
 4740 GREEN RIVER RD, STE 218
 CORONA, CA 92880

DRAINAGE PLAN & PROFILE SHEET No.
HSIP-GILMAN SPRINGS RD
 FROM 8,920' S/O ALESSANDRO
 BLVD TO 5,340' S/O BRIDGE ST
 1-30" CSP
 STA 243+27

D-8
 SHEET 76 OF 119

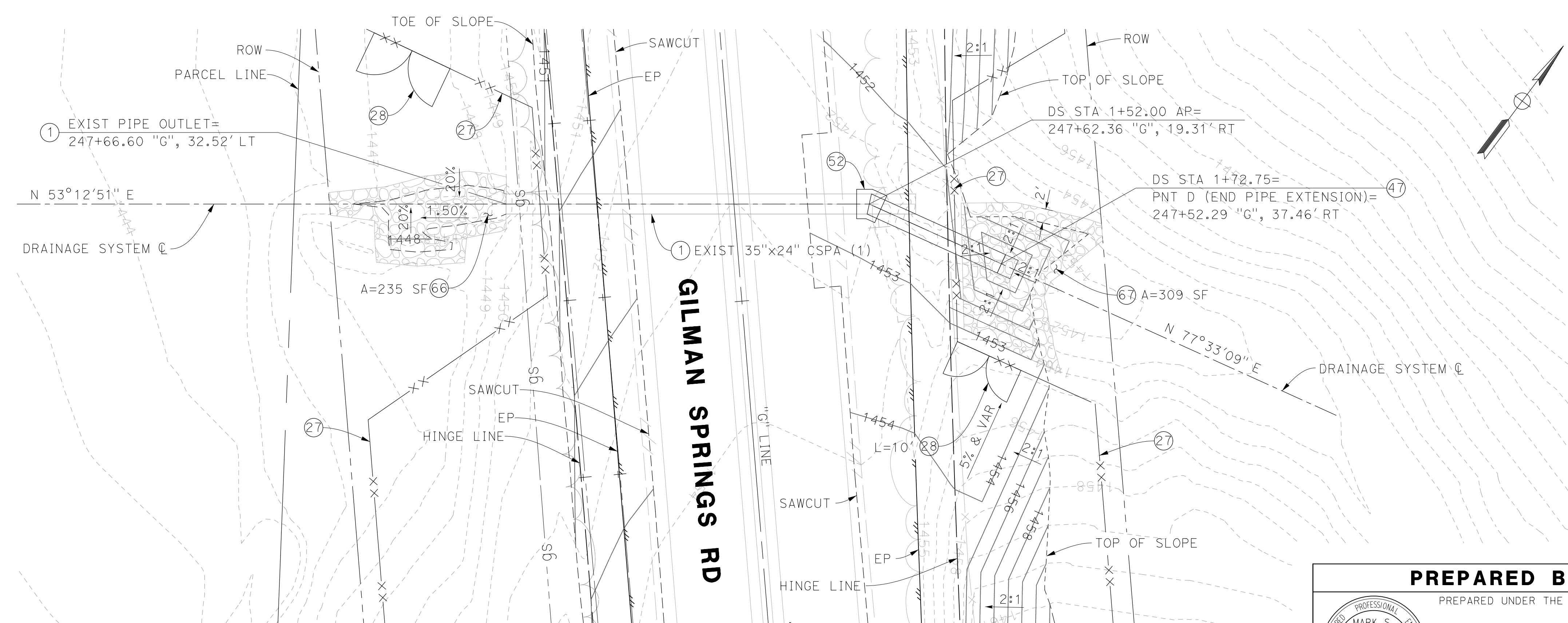
MARK	REVISIONS	BY	APPR.	DATE
▲	ADDED A SOFT BOTTOM ON TOP OF RIP RAP	NCM	ADDEN#1	04/09/2024



PROFILE
 HORIZ: 1"=10'
 VERT: 1"=2'

CONSTRUCTION NOTES:

- ① PROTECT IN PLACE (AS NOTED)
- ②7 INSTALL WILDLIFE FENCE PER DETAILS ON SHEETS C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
- ②8 INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
- ④7 INSTALL 35"x24" CSPA
- ⑤2 INSTALL CONCRETE COLLAR PER RIVERSIDE COUNTY FLOOD CONTROL STANDARD DRAWING M803
- ⑤6 CONSTRUCT PIPE CULVERT HEADWALL, TYPE B, PER CALTRANS RSP D90, LENGTH(L) PER PLAN
- ⑥6 INSTALL ROCK SLOPE PROTECTION (300 LB, 2' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8
- ⑥7 INSTALL ROCK SLOPE PROTECTION (1/4 TON, 2.7' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8



**1- 35" x 24" CSPA
 STA 247+64**
 1" = 10'

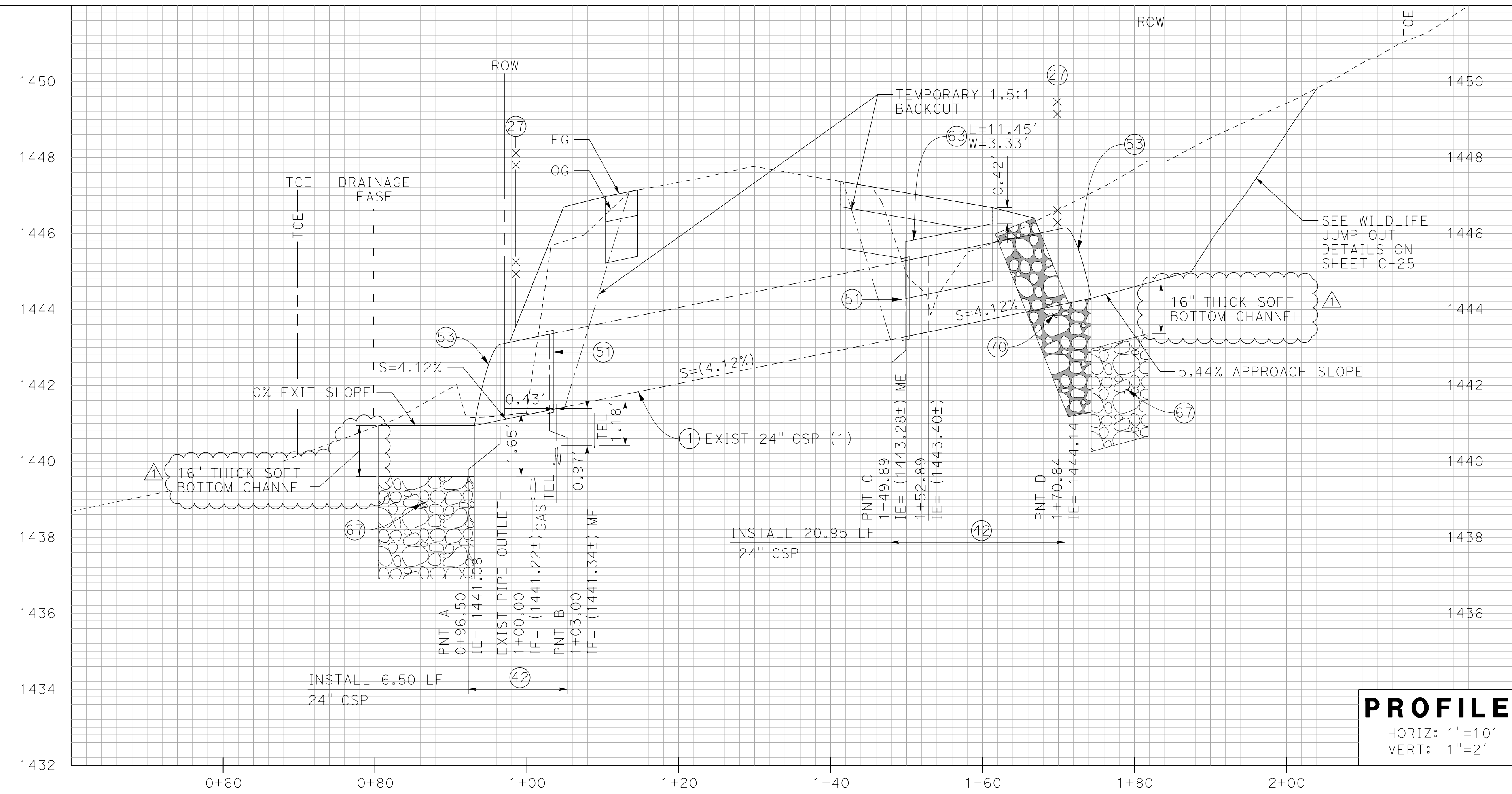
MARK	REVISIONS	BY	APPR.	DATE
△	ADDED A SOFT BOTTOM ON TOP OF RIP RAP	NCM	ADDEN#1	04/09/2024

PREPARED BY
 PREPARED UNDER THE SUPERVISION OF:
 MARK S. READER
 No. 44917
 Exp. 3/31/24
 CIVIL ENGINEER
 STATE OF CALIFORNIA

DATE: 02/22/2024
 PROJECT MANAGER
 NCM ENGINEERING
 4740 GREEN RIVER RD, STE 218
 CORONA, CA 92880

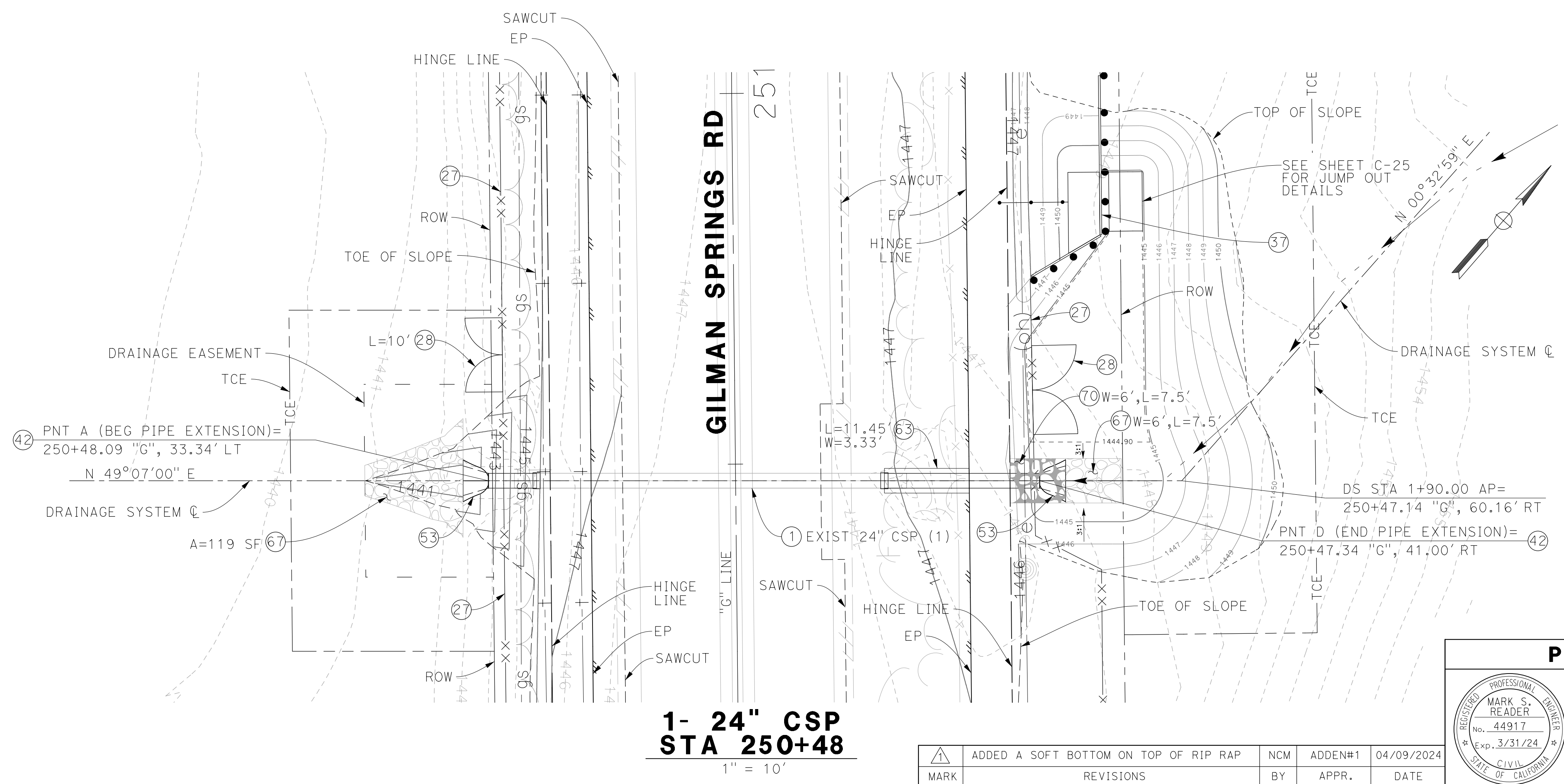
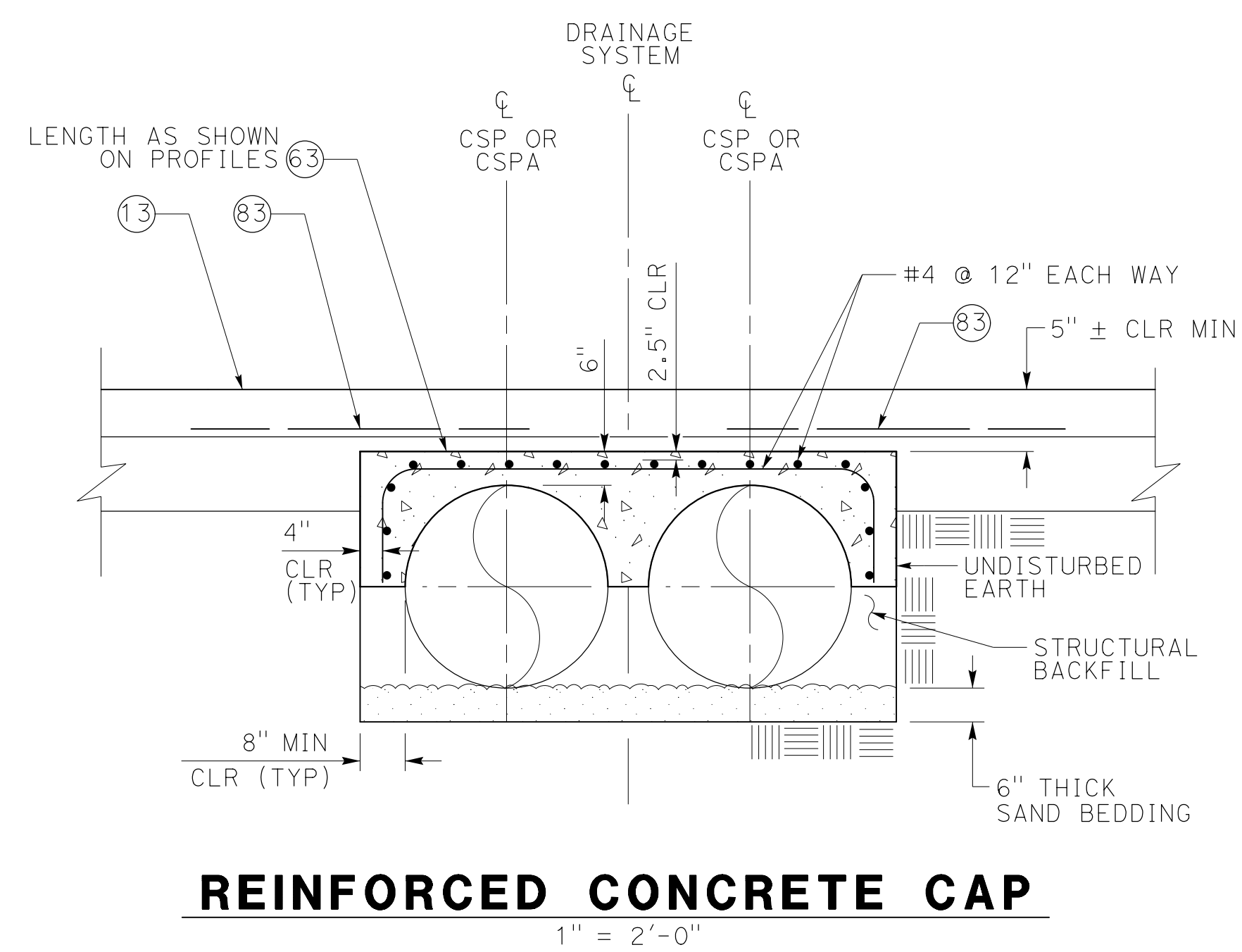
DRAINAGE PLAN & PROFILE SHEET No.
HSIP-GILMAN SPRINGS RD
 FROM 8,920' S/O ALESSANDRO BLVD TO 5,340' S/O BRIDGE ST
 1- 35"x24" CSPA
 STA 247+64

D-9
 SHEET 77 OF 119



CONSTRUCTION NOTES:

- ① PROTECT IN PLACE (AS NOTED)
- ⑬ EXCAVATE AND CONSTRUCT 0.20' HMA (3/4" MIX) OVER 0.50' HMA (1" MIX) OVER 1.10' CLASS 2 AGGREGATE BASE
- ⑲ INSTALL WILDLIFE FENCE PER DETAILS ON SHEETS C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
- ⑳ INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
- ㉓ CONSTRUCT TIMBER RETAINING WALL PER DETAILS ON SHEETS C-26 TO C-27
- ㉔ INSTALL 24" CSP
- ㉕ INSTALL CORRUGATED METAL PIPE HUGGER COUPLING BAND PER CALTRANS D97D AND D97E
- ㉖ INSTALL METAL FLARED END SECTION PER CALTRANS STD PLAN D94A
- ㉗ CONSTRUCT REINFORCED CONCRETE CAP (MINOR CONCRETE) PER DETAIL ON THIS SHEET
- ㉘ INSTALL ROCK SLOPE PROTECTION (1/4 TON, 2.7' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8
- ㉙ INSTALL CONCRETE GROUTED ROCK SLOPE PROTECTION, (LIGHT, 150 LB, 3' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8
- ㉚ PLACE PAVEMENT REINFORCING GRID, 5' WIDE, CENTERED ON EDGE OF CAP. PLACE ABOVE LOWEST AC LIFT



MARK	REVISIONS	BY	APPR.	DATE
▲	ADDED A SOFT BOTTOM ON TOP OF RIP RAP	NCM	ADDEN#1	04/09/2024

PREPARED BY
 MARK S. READER
 No. 44917
 Exp. 3/31/24
 CIVIL ENGINEER
 STATE OF CALIFORNIA

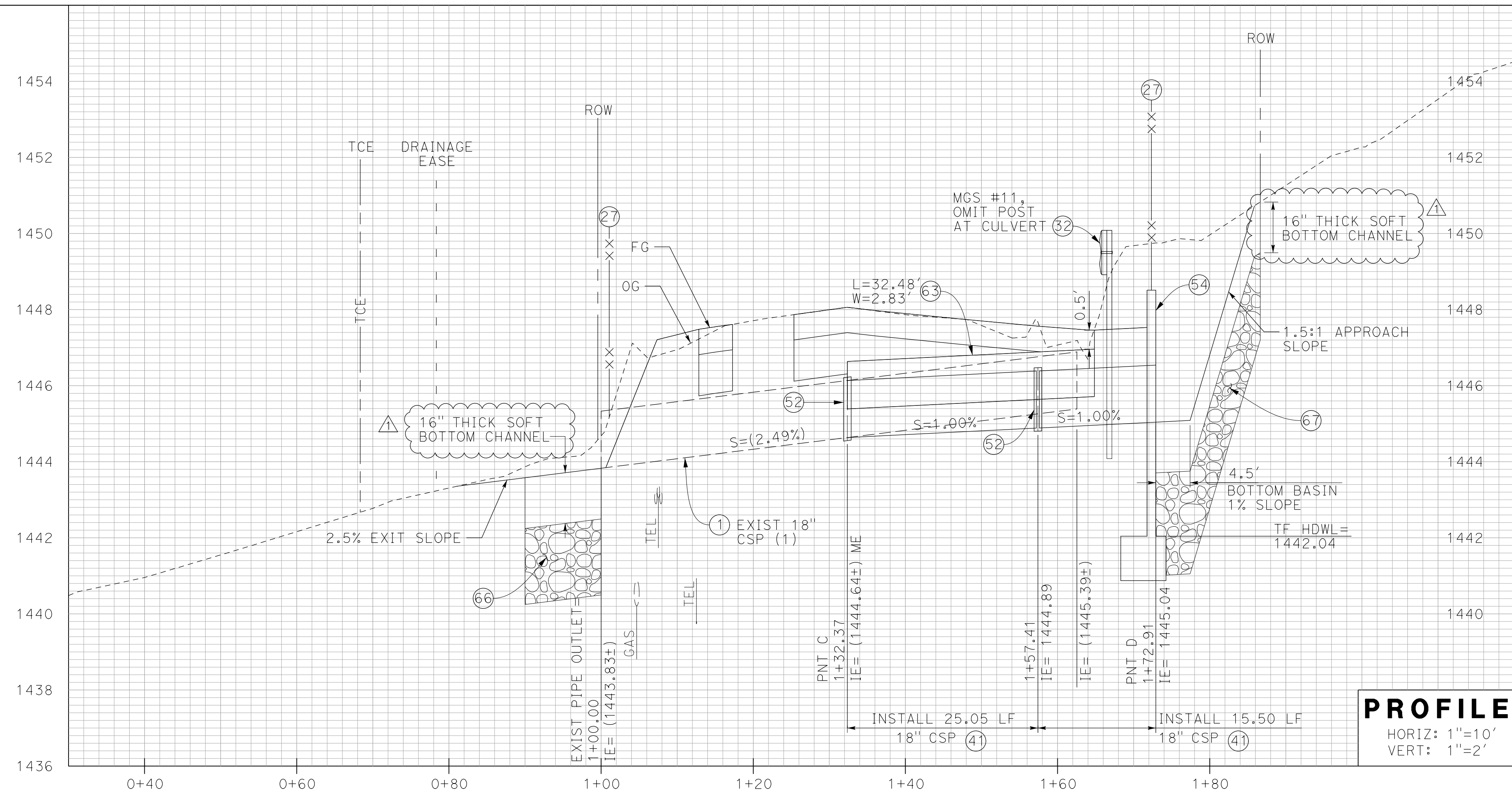
PREPARED UNDER THE SUPERVISION OF:
 Mark Reader
 PROJECT MANAGER
 NCM ENGINEERING
 4740 GREEN RIVER RD, STE 218
 CORONA, CA 92880
 DATE 02/22/2024

DRAINAGE PLAN & PROFILE SHEET No.
HSIP-GILMAN SPRINGS RD
 FROM 8,920' S/O ALESSANDRO BLVD TO 5,340' S/O BRIDGE ST
 1- 24" CSP STA 250+48

SHEET 78 of 119

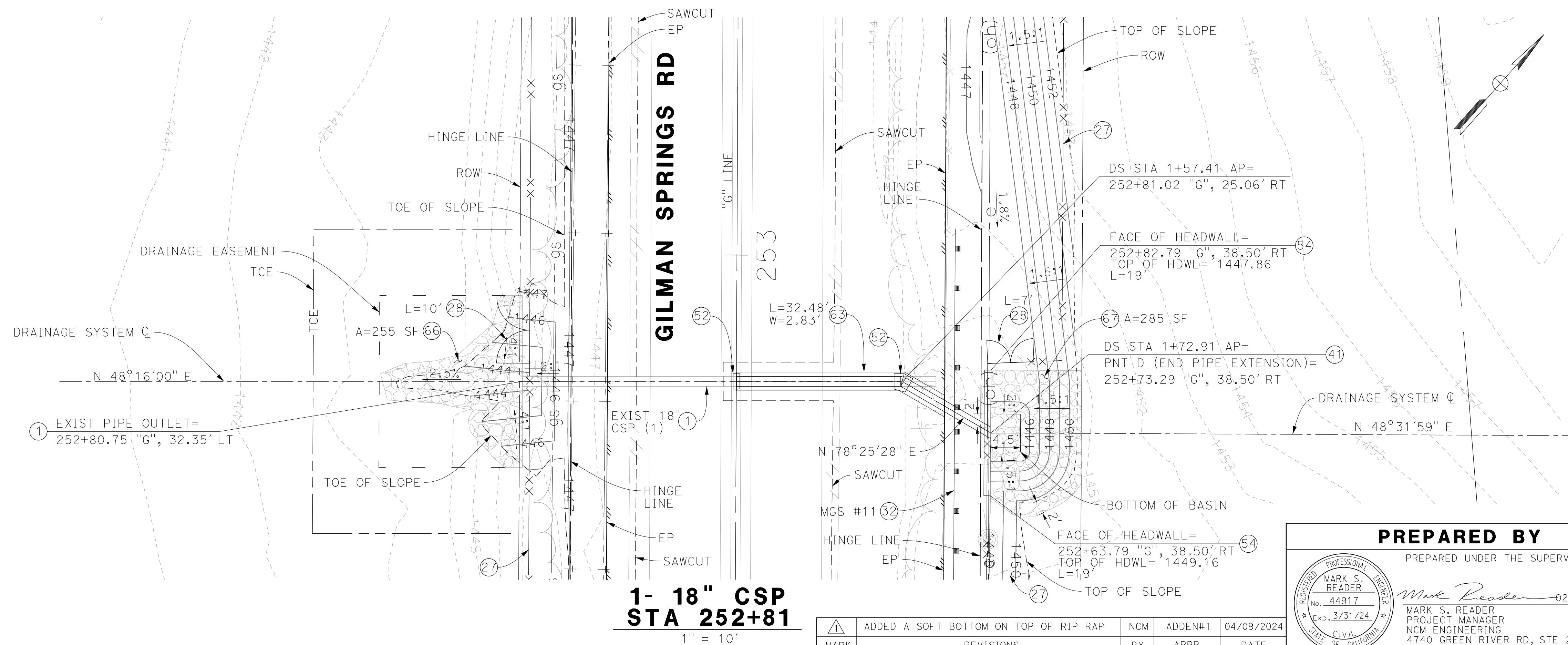
ISSUED BY ADDENDUM No. 2, ATTACHMENT "A"

LAST REVISION 00-00-00 DATE PLOTTED => 4/9/2024 TIME PLOTTED => 5:22:40 PM



CONSTRUCTION NOTES:

- ① PROTECT IN PLACE (AS NOTED)
- ②7 INSTALL WILDLIFE FENCE PER DETAILS ON SHEETS C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
- ②8 INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
- ③2 INSTALL MIDWEST GUARDRAIL SYSTEM WITH MGS DELINEATOR, SEE SHEET C-1, (MGS #)
- ④1 INSTALL 18" CSP
- ⑤2 INSTALL CONCRETE COLLAR PER RIVERSIDE COUNTY FLOOD CONTROL STANDARD DRAWING M803
- ⑤4 CONSTRUCT PIPE CULVERT HEADWALL, STRAIGHT, PER CALTRANS STD D89A, LENGTH(L) PER PLAN
- ⑥3 CONSTRUCT REINFORCED CONCRETE CAP (MINOR CONCRETE) PER DETAIL ON SHEET D-10
- ⑥6 INSTALL ROCK SLOPE PROTECTION (300 LB, 2' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8
- ⑥7 INSTALL ROCK SLOPE PROTECTION (1/4 TON, 2.7' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8



MARK	REVISIONS	BY	APPR.	DATE
△	ADDED A SOFT BOTTOM ON TOP OF RIP RAP	NCM	ADDEN#1	04/09/2024

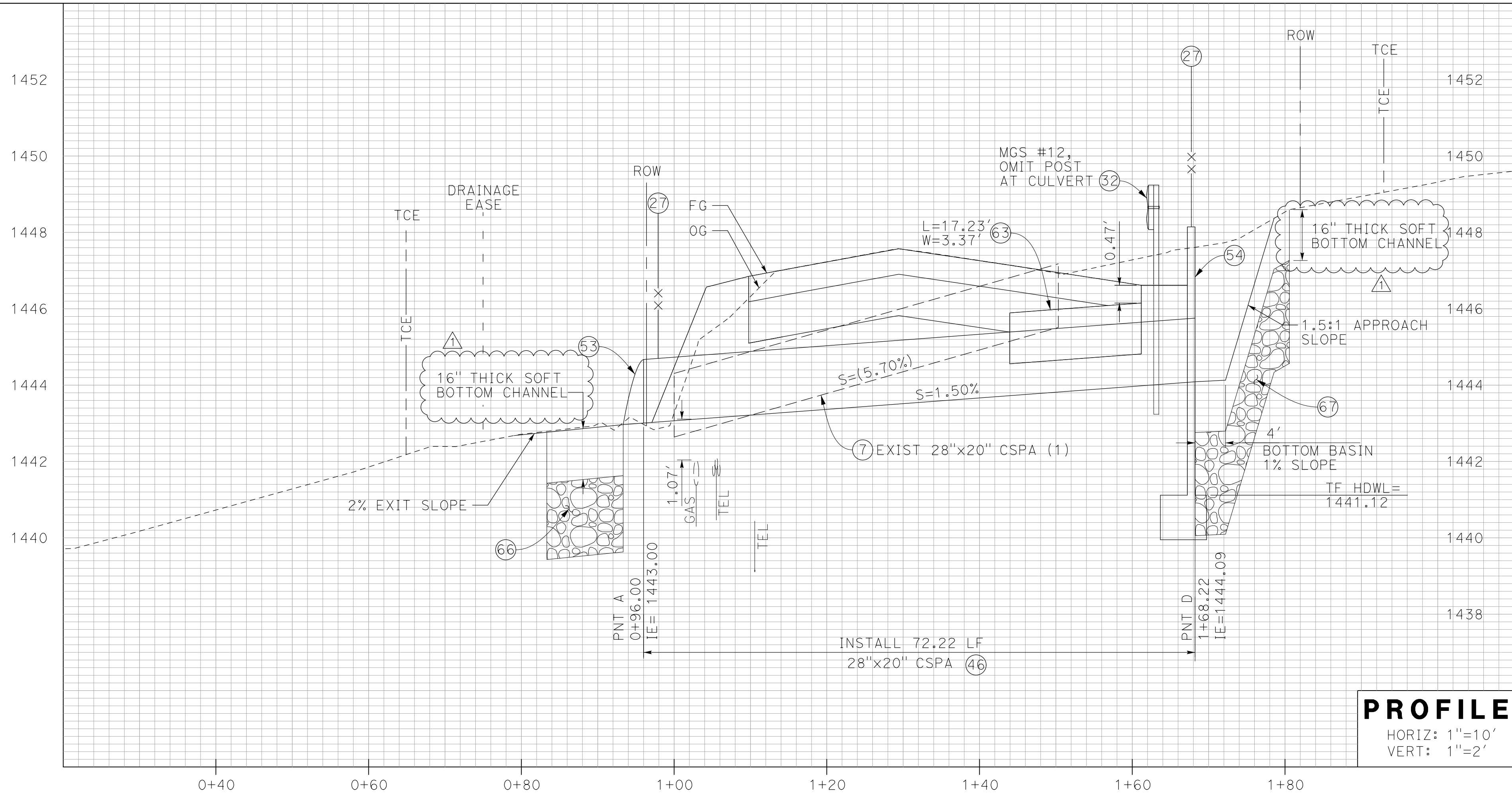
PREPARED BY
 PREPARED UNDER THE SUPERVISION OF:
 MARK S. READER
 No. 44917
 Exp. 3/31/24
 CIVIL ENGINEER
 STATE OF CALIFORNIA

DATE: 02/22/2024

MARK S. READER
 PROJECT MANAGER
 NCM ENGINEERING
 4740 GREEN RIVER RD, STE 218
 CORONA, CA 92880

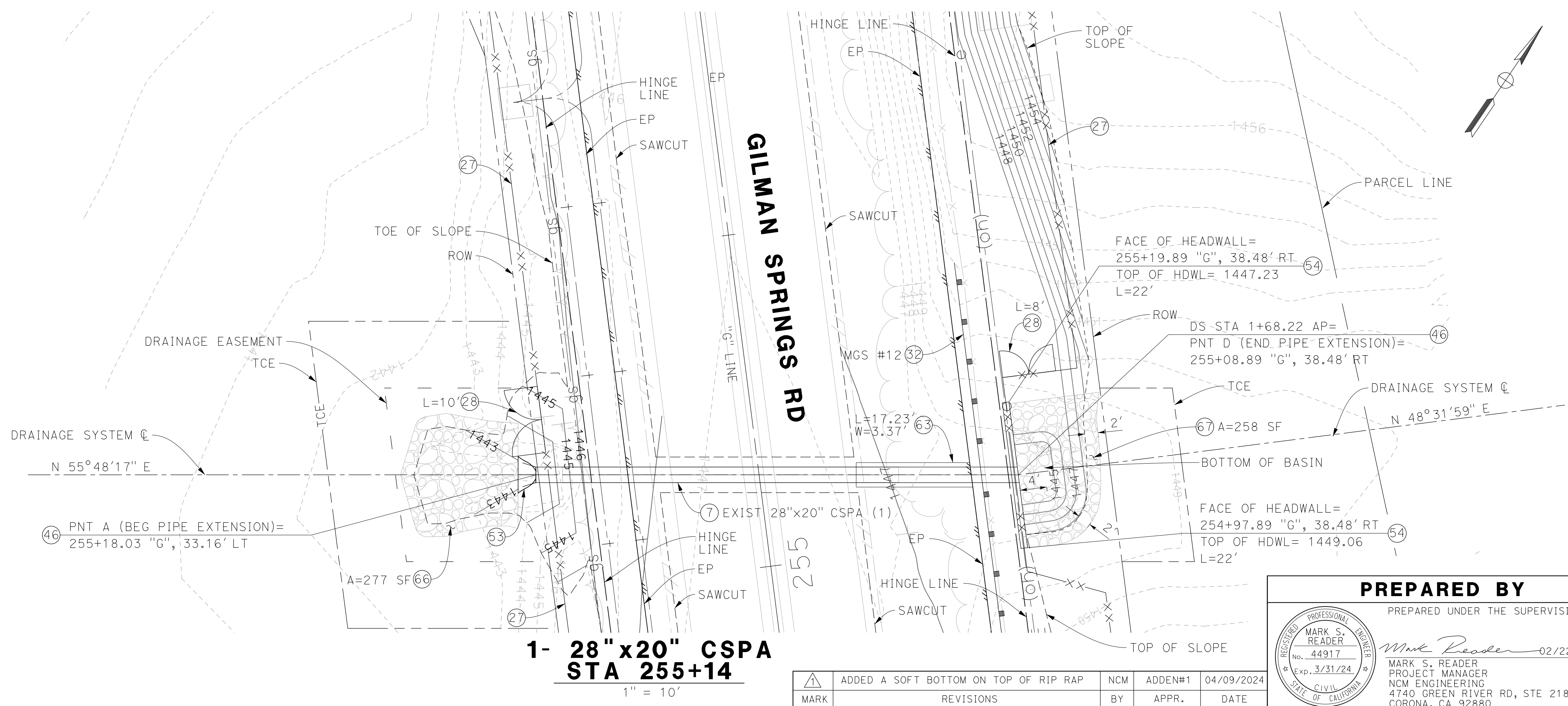
DRAINAGE PLAN & PROFILE SHEET No.
HSIP-GILMAN SPRINGS RD
 FROM 8,920' S/O ALESSANDRO BLVD TO 5,340' S/O BRIDGE ST
 1- 18" CSP
 STA 252+81

D-11
 SHEET 79 of 119



CONSTRUCTION NOTES:

- ⑦ REMOVE CMP
- ②⑦ INSTALL WILDLIFE FENCE PER DETAILS ON SHEETS C-28 TO C-30. SEE SHEETS C-5 TO C-22 FOR FENCE LIMITS
- ②⑧ INSTALL WILDLIFE GATE & FOOTING PER DETAIL ON SHEET C-28; LENGTH (L)=12' UNLESS NOTED OTHERWISE
- ③② INSTALL MIDWEST GUARDRAIL SYSTEM WITH MGS DELINEATOR, SEE SHEET C-1, (MGS #)
- ④⑥ INSTALL 28"x20" CSPA
- ⑤③ INSTALL METAL FLARED END SECTION PER CALTRANS STD PLAN D94A
- ⑤④ CONSTRUCT PIPE CULVERT HEADWALL, STRAIGHT, PER CALTRANS STD D89A, LENGTH(L) PER PLAN
- ⑥③ CONSTRUCT REINFORCED CONCRETE CAP (MINOR CONCRETE) PER DETAIL ON SHEET D-10
- ⑥⑥ INSTALL ROCK SLOPE PROTECTION (300 LB, 2' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8
- ⑥⑦ INSTALL ROCK SLOPE PROTECTION (1/4 TON, 2.7' THICK, METHOD B) ON NONWOVEN FABRIC, TYPE 8



PREPARED BY
 PREPARED UNDER THE SUPERVISION OF:
 MARK S. READER
 No. 44917
 Exp. 3/31/24
 CIVIL ENGINEER
 STATE OF CALIFORNIA

DRAINAGE PLAN & PROFILE SHEET No.
HSIP-GILMAN SPRINGS RD
 FROM 8,920' S/O ALESSANDRO BLVD TO 5,340' S/O BRIDGE ST
 1- 28"x20" CSPA
 STA 255+14

MARK	REVISIONS	BY	APPR.	DATE
△	ADDED A SOFT BOTTOM ON TOP OF RIP RAP	NCM	ADDEN#1	04/09/2024

POT HOLE LOCATION TABLE

NO.	SHEET	UTILITY	MATERIAL	OWNER	DRAINAGE CROSSING	ALIGN	STATION	OFFSET	ELEV	REMARKS
1A	N/A	3/4" TELEPHONE	PE	FRONTIER	N/A	"G" LINE	187+71.00	29.93' LT	1533.80	TWO LINES WHERE MARKED, UNABLE TO MAKE ATTEMPT ON SECOND MARK AS TIME TO RAN OUT AND END OF PERMIT.
2A	L-2	8" GAS	STL	SO CAL GAS	NONE	"G" LINE	194+49.06	39.26' RT	1522.32	NO REMARKS.
3A	L-2	8" GAS	STL	SO CAL GAS		"G" LINE	195+14.56	52.99' RT	1522.80	NO REMARKS.
4A	L-2	8" GAS	STL	SO CAL GAS		"G" LINE	204+39.78	13.71' LT	1508.67	NO REMARKS.
5A	L-2	8" GAS	STL	SO CAL GAS		"G" LINE	204+57.98	17.87' LT	1508.35	NO REMARKS.
6A	L-4	8" GAS	STL	SO CAL GAS		"G" LINE	230+97.65	32.47' LT	1473.55	NO REMARKS.
6B	L-4	TWO 4" TELEPHONE	PVC	FRONTIER		"G" LINE	230+70.79	23.23' LT	1472.49	DUG TWO PREVIOUS HOLES TRYING TO FIND FRONTIER LINE.
6C	L-4	DRY HOLE	N/A	FRONTIER		"G" LINE	N/A	N/A	N/A	NO REMARKS.
6D	L-4	DRY HOLE	N/A	FRONTIER		"G" LINE	N/A	N/A	N/A	NO REMARKS.
6E	L-4	1/2" TELEPHONE	PE	FRONTIER		"G" LINE	230+98.05	48.10' LT	1470.81	NO REMARKS.
7A	L-4	DRY HOLE	N/A	FRONTIER		"G" LINE	232+52.08	20.53' LT	1476.05	DUG WHERE MARKED AND REQUESTED. WENT DOWN 14.60' DEEP AND NO UTILITY FOUND.
7B	L-4	DRY HOLE	N/A	FRONTIER		"G" LINE	232+54.15	18.78' LT	1476.12	TRIED TO LOCATED FRONTIER LINE, DUG A SECOND HOLE AND WENT DOWN 13.50' AND NO UTILITY FOUND.
8A	L-4	8" GAS	STL	SO CAL GAS		"G" LINE	232+51.04	30.12' LT	1461.96	NO REMARKS.
9A	L-4	8" GAS	STL	SO CAL GAS		"G" LINE	232+76.86	29.89' LT	1461.11	NO REMARKS.
10A	L-4	8" GAS	STL	SO CAL GAS		"G" LINE	234+25.31	29.39' LT	1470.77	NO REMARKS.
10B	L-4	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	234+25.20	17.51' LT	1464.26	DUG TWO HOLES TO FIND.
11A	L-5	8" GAS	STL	SO CAL GAS		"G" LINE	250+42.50	29.04' LT	1439.59	NO REMARKS.
11B	L-5	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	250+41.57	20.94' LT	1440.52	NO REMARKS.
11C	N/A	DRY HOLE	N/A	FRONTIER		"G" LINE	250+41.36	18.40' LT	1446.65	DUG WHERE MARKED LOOKING FOR FRONTIER LINE. WENT DOWN 9' DEEP, NO UTILITY FOUND.
12A	L-5	8" GAS	STL	SO CAL GAS		"G" LINE	255+11.51	26.34' LT	1442.12	NO REMARKS.
12B	L-5	THREE 4" TELEPHONE	PVC	FRONTIER		"G" LINE	255+11.75	23.73' LT	1442.15	NO REMARKS.
13A	L-6	THREE 4" TELEPHONE	PVC	FRONTIER		"G" LINE	261+52.14	26.60' LT	1425.96	NO REMARKS.
13D	L-6	8" GAS	STL	SO CAL GAS		"G" LINE	261+54.58	39.17' LT	1425.31	NO REMARKS.
14A	L-7	28" WIDE ENCASEMENT	SLURRY	FRONTIER		"G" LINE	272+87.68	26.92' LT	1423.14	DUG WHERE MARKED, HAD TO DIG 3 ADDITIONAL POTHOLES TO FIND.
14D	L-7	8" GAS	STL	SO CAL GAS		"G" LINE	272+85.09	39.93' LT	1421.27	NO REMARKS.
15A	L-7	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	278+41.76	21.89' LT	1422.95	NO REMARKS.
15B	L-7	THREE 4" TELEPHONE	PVC	FRONTIER		"G" LINE	278+41.58	25.76' LT	1422.38	NO REMARKS.
15D	L-7	8" GAS	STL	SO CAL GAS		"G" LINE	278+54.69	40.48' LT	1421.43	NO REMARKS.
16A	L-7	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	278+91.44	22.95' LT	1423.46	NO REMARKS.
16B	L-7	THREE 4" TELEPHONE	PVC	FRONTIER		"G" LINE	278+90.12	26.13' LT	1422.10	NO REMARKS.
16D	L-7	8" GAS	STL	SO CAL GAS		"G" LINE	278+86.90	40.83' LT	1421.16	NO REMARKS.
17A	L-7	THREE 4" TELEPHONE	PVC	FRONTIER		"G" LINE	286+34.44	25.87' LT	1426.81	NO REMARKS.
17D	L-7	8" GAS	STL	SO CAL GAS		"G" LINE	286+28.80	41.01' LT	1426.93	NO REMARKS.
18A	L-8	30" WIDE ENCASEMENT	CONCRETE	FRONTIER		"G" LINE	294+88.54	26.97' LT	1439.90	HAD TO MAKE TRENCH 3' WIDE TO EXPOSE BOTH SIDES AND GET BOTTOM DEPTH.
18D	L-8	8" GAS	STL	SO CAL GAS		"G" LINE	294+94.18	40.63' LT	1438.79	NO REMARKS.
19A	L-8	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	295+96.57	24.30' LT	1440.57	DUG 3' WIDE TRENCH TO VERIFY NO OTHER FRONTIER LINE, BESIDES THE 3/4" LINE FOUND.
19D	L-8	8" GAS	STL	SO CAL GAS		"G" LINE	295+89.57	40.88' LT	1439.91	NO REMARKS.
20A	L-9	8" GAS	STL	SO CAL GAS		"G" LINE	315+86.89	38.80' LT	1470.61	NO REMARKS.
21A	L-9	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	315+79.95	23.32' LT	1472.11	NO REMARKS.
22A	L-10	THREE 4" TELEPHONE	PVC	FRONTIER		"G" LINE	326+68.14	25.62' LT	1474.63	NO REMARKS.
23A	L-10	8" GAS	STL	SO CAL GAS		"G" LINE	326+72.33	38.40' LT	1474.11	NO REMARKS.
24A	L-10	THREE 4" TELEPHONE	PVC	FRONTIER		"G" LINE	327+13.49	25.92' LT	1474.54	NO REMARKS.
25A	L-10	8" GAS	STL	SO CAL GAS		"G" LINE	326+96.40	38.67' LT	1473.93	NO REMARKS.
26A	L-11	TWO 4" TELEPHONE	PVC	FRONTIER		"G" LINE	344+25.51	17.76' LT	1505.41	NO REMARKS.
26E	L-11	8" GAS	STL	SO CAL GAS		"G" LINE	344+25.33	25.37' LT	1501.36	NO REMARKS.
27A	L-11	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	346+98.58	20.19' LT	1499.42	NO REMARKS.
27C	L-11	8" GAS	STL	SO CAL GAS		"G" LINE	346+99.00	25.81' LT	1497.68	NO REMARKS.
28A	L-12	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	350+51.12	20.13' LT	1490.07	NO REMARKS.
28B	L-12	8" GAS	STL	SO CAL GAS		"G" LINE	350+52.64	25.93' LT	1491.05	NO REMARKS.
29A	L-12	3/4" TELEPHONE	PE	FRONTIER		"G" LINE	352+10.32	18.74' LT	1485.69	NO REMARKS.

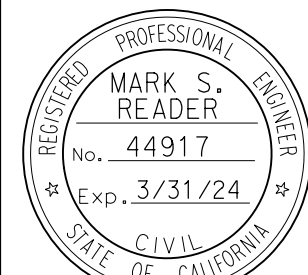


NOTE: LOCATIONS OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL CONCERNED UTILITY COMPANIES AT LEAST 48 HOURS IN ADVANCE OF EXCAVATION. CALL UNDERGROUND SERVICE ALERT AT 811.

▲	ADDED MISSING POT HOLE DATA	NCM	ADDEN#1	04/09/2024
MARK	REVISIONS	BY	APPR.	DATE

PREPARED BY

PREPARED UNDER THE SUPERVISION OF:



Mark Reader 02/22/2024
DATE

MARK S. READER
PROJECT MANAGER
NCM ENGINEERING
4740 GREEN RIVER RD, STE 218
CORONA, CA 92880

UTILITY PLAN

HSIP-GILMAN SPRINGS RD

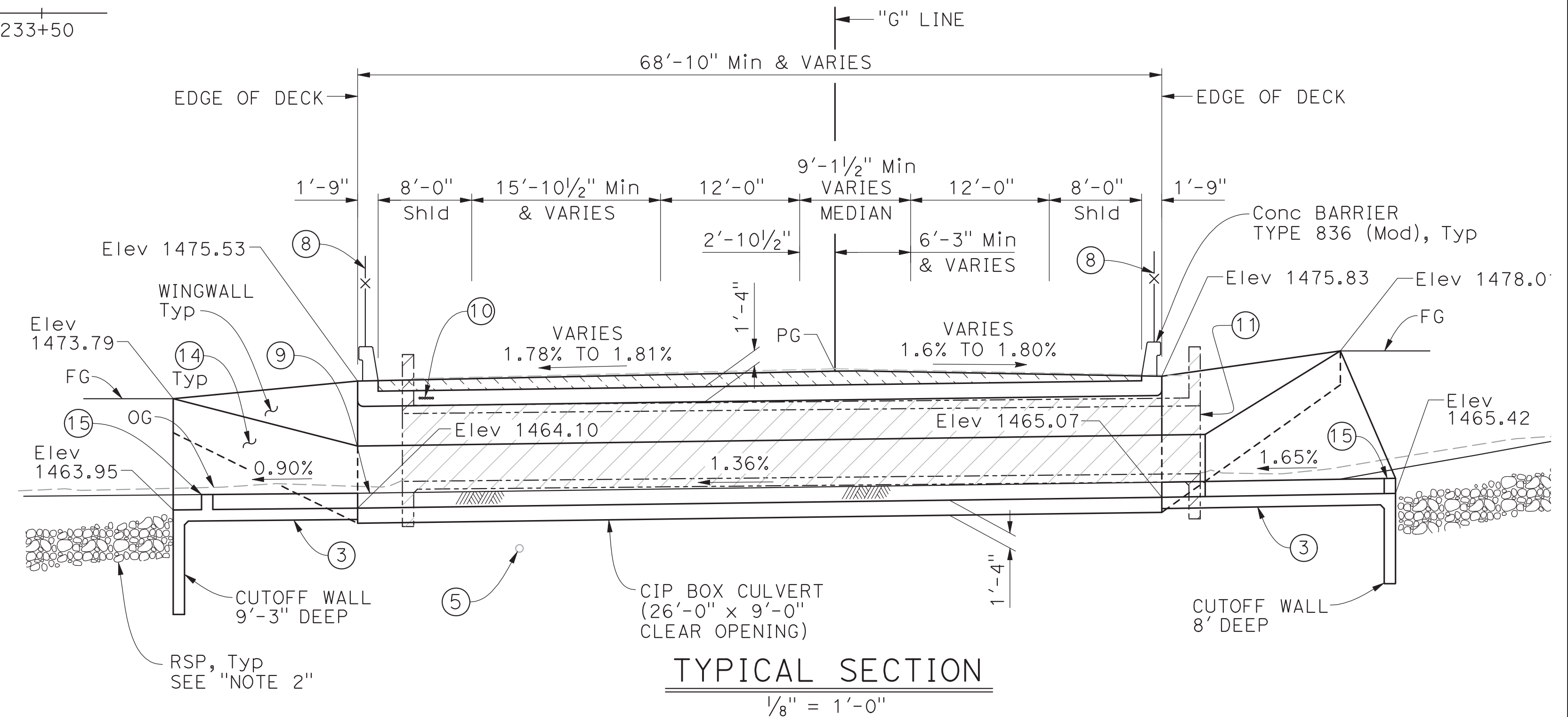
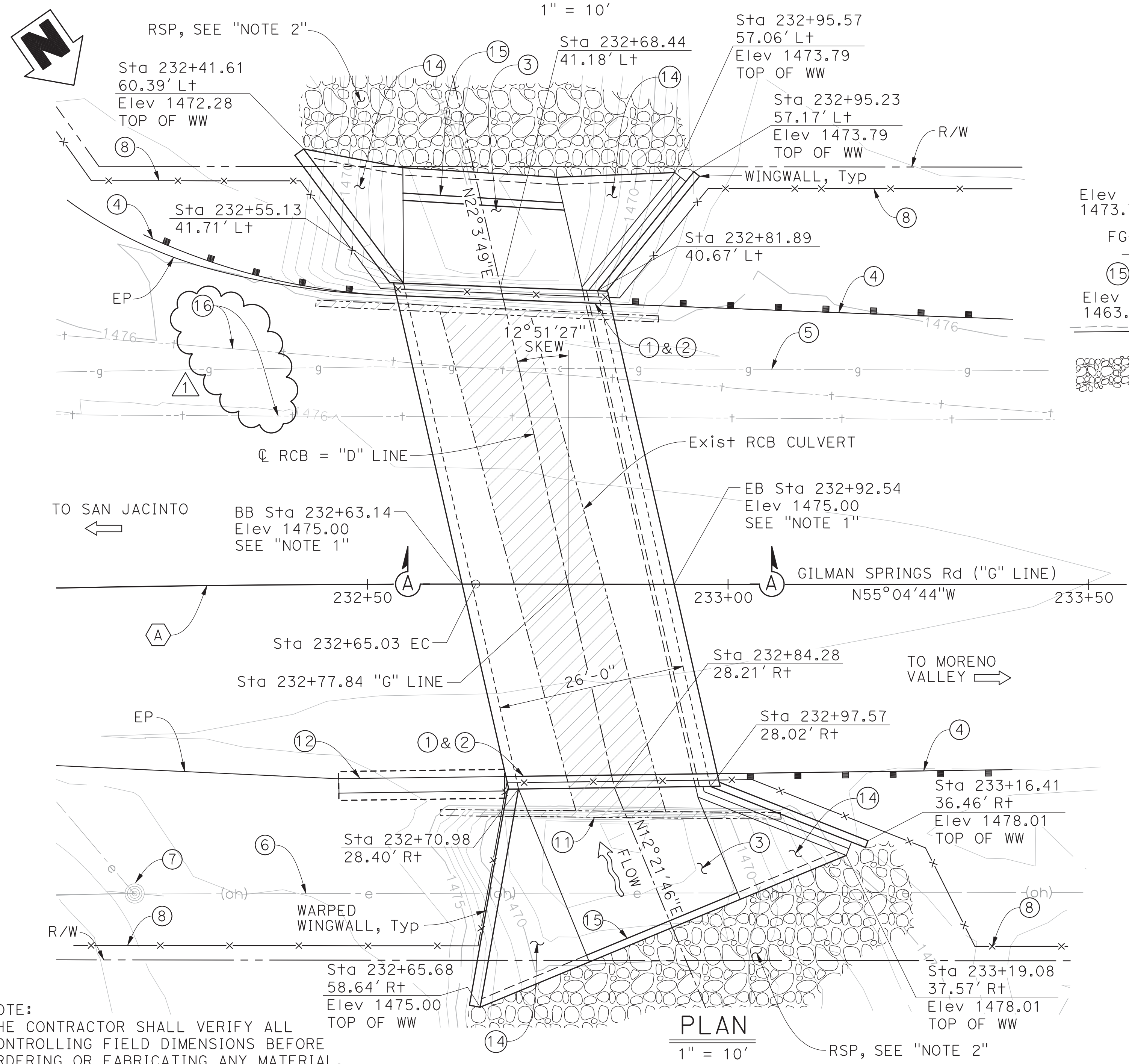
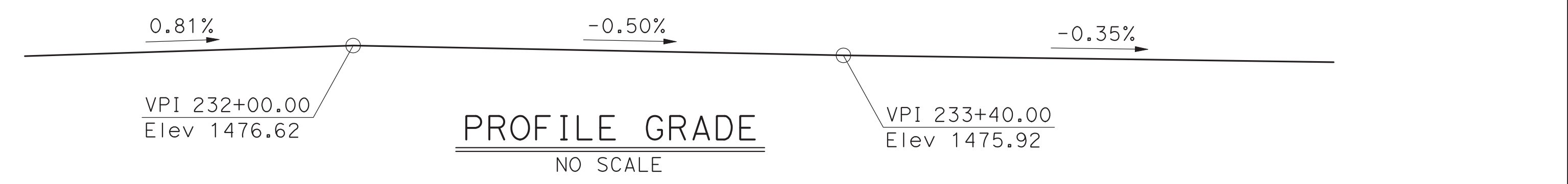
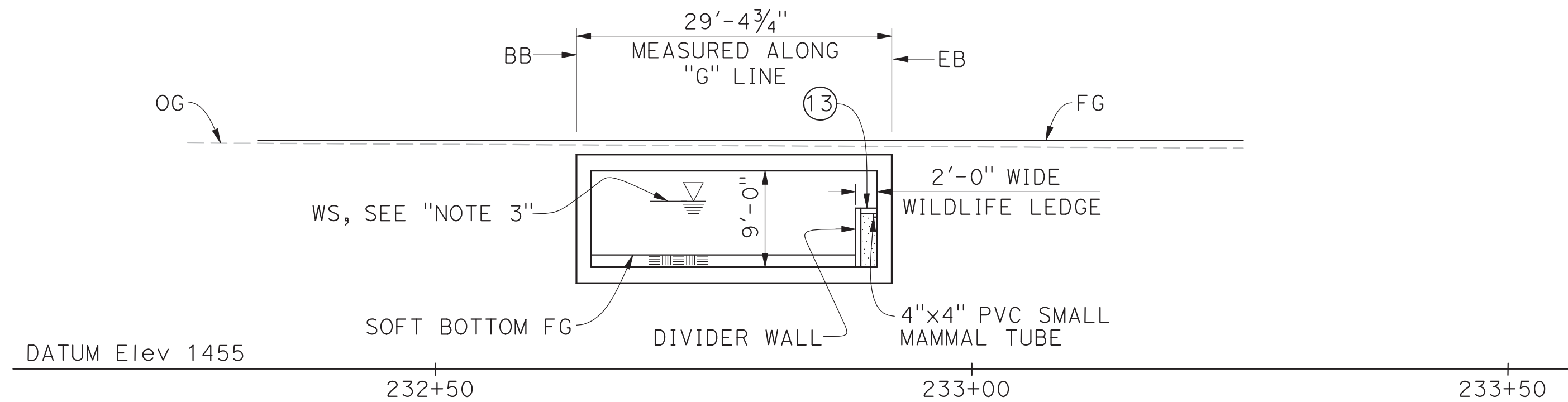
FROM 8,920' S/O ALESSANDRO
BLVD TO 5,340' S/O BRIDGE ST

SHEET No.

U-1

SHEET 93 OF 119

ISSUED BY ADDENDUM No. 2, ATTACHMENT "A"
LAST REVISION: 00-00-00
DATE PLOTTED => 4/9/2024
TIME PLOTTED => 5:22:48 PM



- NOTES:
- Concrete deck elevation shown at BB and EB.
 - For RSP limits and grading, See ROADWAY PLANS.
 - For water surface elevations, see "HYDROLOGIC TABLE" on "GENERAL NOTES" sheet.

- NOTES:
- Paint "Br No"
 - Paint "Bridge Name" & year constructed
 - Buried Concrete Apron
 - MGS, see ROADWAY PLANS
 - Exist Gas Line, protect in place
 - Exist Overhead electrical line, protect in place
 - Exist Electrical Post, protect in place
 - Wildlife Fencing, See ROADWAY PLANS
 - Soft Bottom, See ROADWAY PLANS for Grading
 - 6 - 2" Dia Telephone Conduits
 - Existing 12'-0" L x 6'-0" H Box Culvert
 - Crash Cushion, See ROADWAY PLANS
 - 3" Thick PCC
 - Warped Wingwall
 - Check Dam
 - Exist Telephone Conduits, protect in place

- LEGEND:
- Existing Structure
 - Remove RCB Culvert
 - Traffic Direction
 - Roadway Section, See ROADWAY PLANS
 - Lean Concrete
 - Rock Slope Protection

CURVE DATA
 A
 R = 2854.34
 Δ = 9°49'23"
 T = 245.28'
 L = 489.36'

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

MARK	DATE	REVISIONS DESCRIPTION	BY	APP'D

DESIGN BY: L. MAHARJAN	CHECKED BY: D. KIM
DETAILS BY: R. ANDRASEK	CHECKED BY:
QUANTITIES BY:	CHECKED BY:

LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
LAYOUT BY: R. ANDRASEK	CHECKED BY: L. MAHARJAN
SPECIFICATIONS BY:	PLANS AND SPECS COMPARED BY:
BRIDGE NO.	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3

COUNTY OF RIVERSIDE
 TRANSPORTATION DEPARTMENT
 Approved as to general conformance with County Standards and Practices.
 COUNTY OVERSIGHT ENGINEER DATE

NCM ENGINEERING CORP
 PROJECT ENGINEER: LALIT MAHARJAN (No. 75358, Exp. 12/31/25)
 DATE: 2/15/24
 4740 GREEN RIVER RD, SUITE 218 CORONA, CALIFORNIA 92880

GILMAN SPRINGS RD WILDLIFE CROSSING NEAR BRIDGE ST
GENERAL PLAN

SHEET NO.	S1
SHEET 113 OF 119	
PROJECT SHEET NO.	113
TOTAL SHEETS	119

ISSUED BY ADDENDUM No. 2, ATTACHMENT "A"

DATE PLOTTED => 4/8/2024 TIME PLOTTED => 4:18:51 PM