



FEMA

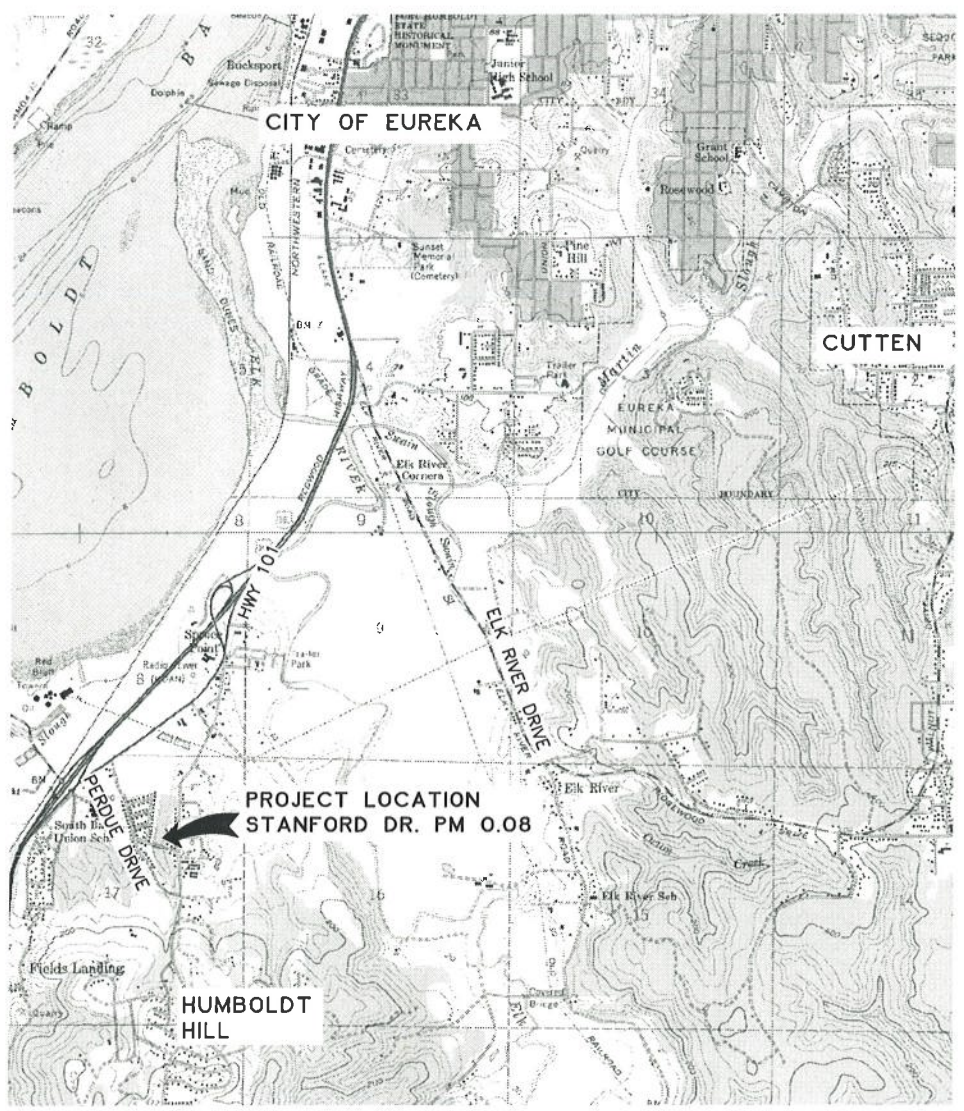


Cal OES
GOVERNOR'S OFFICE
OF EMERGENCY SERVICES

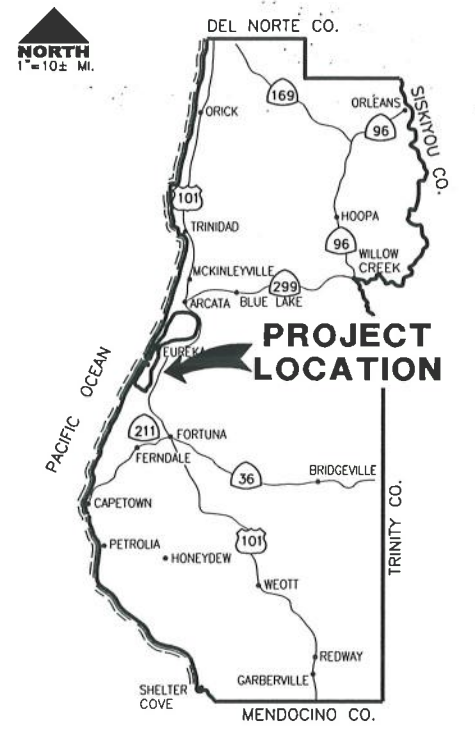
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

PROJECT PLANS FOR CONSTRUCTION OF STORM DAMAGE REPAIR TO STANFORD DRIVE (3J200) at P.M. 0.08 FEMA 4301-DR-CA PW-585 CONTRACT NO. 217316

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: STANFORD DRIVE	DESIGN SECTION: ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR STANFORD DRIVE PM 0.08 COVER SHEET SHEET INDEX AND MAPS	SHEET 1 OF 10	
	ROAD NO: 3J200	MILE POST: 0.08			DESIGNED BY: MMS
	PROJECT NO.: FEMA 4301-DR-CA PW 585				DRAWN BY: MMS
	CONTRACT NO.: 217316				REVIEWED BY: JAB
	DRAWING FILE NAME: L:\217316_Stanford Drive PM 0.08\Design\217316_C1.DWG	APPROVED BY: TRS			
	PLOT DATE: 2/28/2019	REVISION DATE:			



VICINITY MAP
SCALE: 1"=2000'±



LOCATION MAP
SCALE: 1"=10± MILE

INDEX OF SHEETS

1	COVER SHEET, SHEET INDEX, AND MAPS
2-5	SITE PLAN, QUANTITIES, AND DETAILS
6-7	PLAN AND PROFILE
8-10	SECTIONS

NOTES

THE CONTRACTOR SHALL HAVE A CLASS "A" OR "C33" LICENSE FOR THIS PROJECT.

REFERENCE TO CALTRANS STANDARD PLANS DATED JULY 2015. (SEE APPLICABLE STAN PLAN LIST IN SPECIAL PROVISIONS)

DESIGN DESIGNATION

ADT (SEPTEMBER '09)=1352
V=25MPH

RECOMMENDED

Jeffrey A. Ball 2/28/2019
 JEFFREY A. BALL DATE
 RCE 70631, EXP. 6/30/2019



APPROVED

Tony R. Seghetti 2/28/19
 TONY R. SEGHETTI DATE
 RCE 63714, EXP. 9/30/2020



ORIGINAL LOW BID PRICE	CONSTRUCTED BY PROJECT COMPLETED	RESIDENT ENGINEER CONSTRUCTION COST \$
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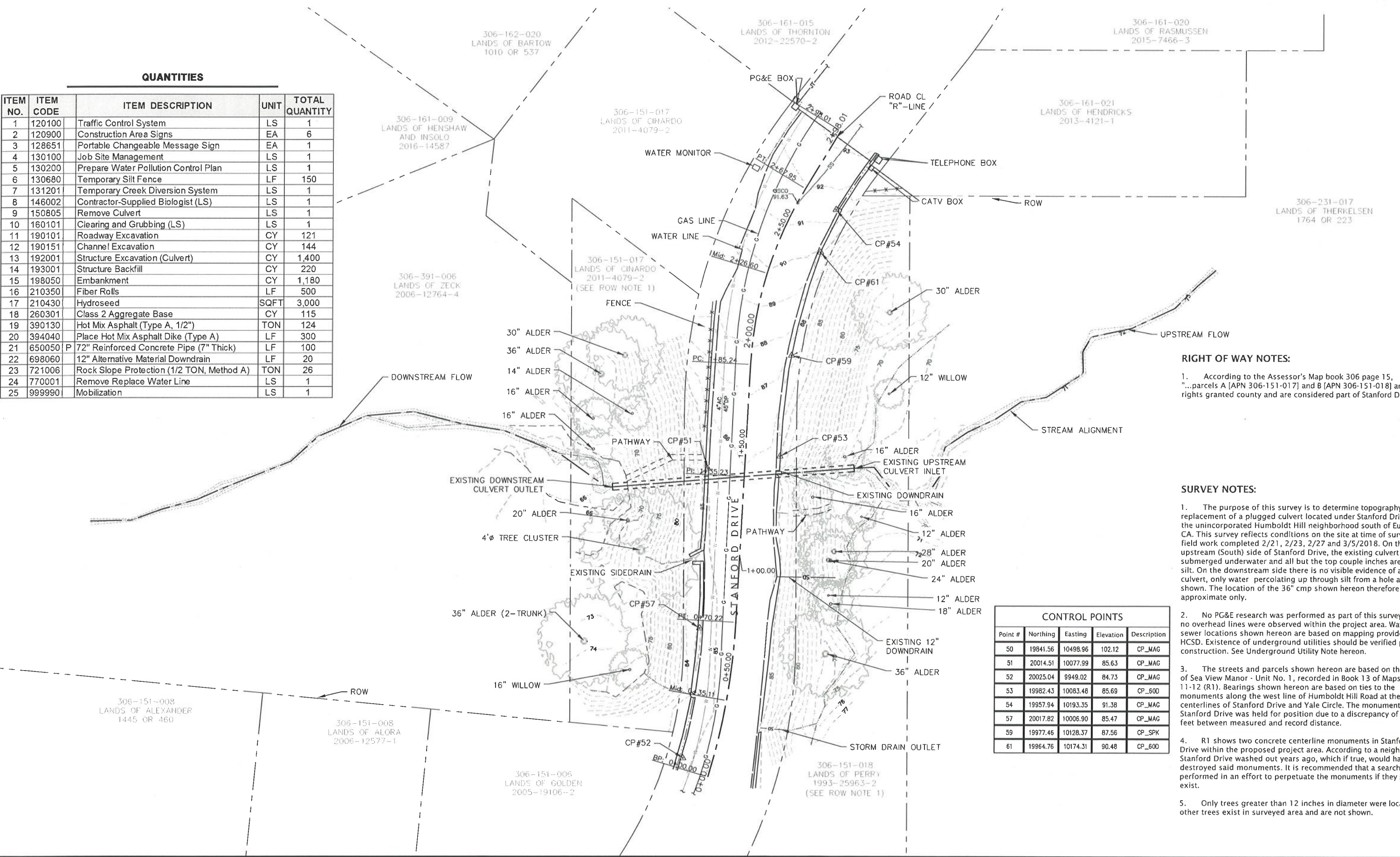


BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: STANFORD DRIVE	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO: J3200	ENGINEERING DIVISION	
	PROJECT NO: FEMA 4301-DR-CA PW 585	DESIGNED BY: MMS	
	CONTRACT NO: 217316	DRAWN BY: MMS	
	DRAWING FILE NAME: L:\217316_Stanford Drive PM 0.05\Design\217316_C2.DWG	REVIEWED BY: JAB	STORM DAMAGE REPAIR TO STANFORD DRIVE PM 0.08
	PLOT DATE: 2/28/2019	APPROVED BY: TRS	
			PLAN VIEW

SHEET
2
OF
10

QUANTITIES

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
1	120100	Traffic Control System	LS	1
2	120900	Construction Area Signs	EA	6
3	128651	Portable Changeable Message Sign	EA	1
4	130100	Job Site Management	LS	1
5	130200	Prepare Water Pollution Control Plan	LS	1
6	130680	Temporary Silt Fence	LF	150
7	131201	Temporary Creek Diversion System	LS	1
8	146002	Contractor-Supplied Biologist (LS)	LS	1
9	150805	Remove Culvert	LS	1
10	160101	Clearing and Grubbing (LS)	LS	1
11	190101	Roadway Excavation	CY	121
12	190151	Channel Excavation	CY	144
13	192001	Structure Excavation (Culvert)	CY	1,400
14	193001	Structure Backfill	CY	220
15	198050	Embankment	CY	1,180
16	210350	Fiber Rolls	LF	500
17	210430	Hydroseed	SQFT	3,000
18	260301	Class 2 Aggregate Base	CY	115
19	390130	Hot Mix Asphalt (Type A, 1/2")	TON	124
20	394040	Place Hot Mix Asphalt Dike (Type A)	LF	300
21	650050	P 72" Reinforced Concrete Pipe (7" Thick)	LF	100
22	698060	12" Alternative Material Downdrain	LF	20
23	721006	Rock Slope Protection (1/2 TON, Method A)	TON	26
24	770001	Remove Replace Water Line	LS	1
25	999990	Mobilization	LS	1



RIGHT OF WAY NOTES:

1. According to the Assessor's Map book 306 page 15, "...parcels A [APN 306-151-017] and B [APN 306-151-018] are slope rights granted county and are considered part of Stanford Drive".

SURVEY NOTES:

1. The purpose of this survey is to determine topography for the replacement of a plugged culvert located under Stanford Drive, in the unincorporated Humboldt Hill neighborhood south of Eureka, CA. This survey reflects conditions on the site at time of survey; field work completed 2/21, 2/23, 2/27 and 3/5/2018. On the upstream (South) side of Stanford Drive, the existing culvert was submerged underwater and all but the top couple inches are full of silt. On the downstream side there is no visible evidence of a culvert, only water percolating up through silt from a hole as shown. The location of the 36" cmp shown hereon therefore is approximate only.

2. No PG&E research was performed as part of this survey and no overhead lines were observed within the project area. Water and sewer locations shown hereon are based on mapping provided by HCS. Existence of underground utilities should be verified prior to construction. See Underground Utility Note hereon.

3. The streets and parcels shown hereon are based on the map of Sea View Manor - Unit No. 1, recorded in Book 13 of Maps, Pages 11-12 (R1). Bearings shown hereon are based on ties to the monuments along the west line of Humboldt Hill Road at the centerlines of Stanford Drive and Yale Circle. The monument at Stanford Drive was held for position due to a discrepancy of 0.48 feet between measured and record distance.

4. R1 shows two concrete centerline monuments in Stanford Drive within the proposed project area. According to a neighbor Stanford Drive washed out years ago, which if true, would have destroyed said monuments. It is recommended that a search be performed in an effort to perpetuate the monuments if they still exist.

5. Only trees greater than 12 inches in diameter were located- other trees exist in surveyed area and are not shown.

Point #	Northing	Easting	Elevation	Description
50	19841.56	10498.96	102.12	CP_MAG
51	20014.51	10077.99	85.63	CP_MAG
52	20025.04	9949.02	84.73	CP_MAG
53	19982.43	10083.48	85.69	CP_60D
54	19957.94	10193.35	91.38	CP_MAG
57	20017.82	10006.90	85.47	CP_MAG
59	19977.46	10128.37	87.56	CP_SPK
61	19964.76	10174.31	90.48	CP_60D

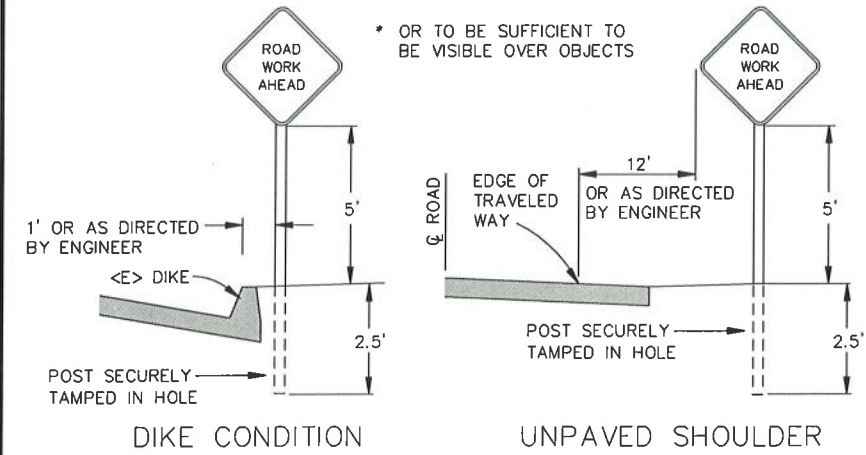


BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: STANFORD DRIVE	DESIGN SECTION: ENGINEERING DIVISION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 3 OF 10
	ROAD NO: S3200	MILE POST: 0.08	STORM DAMAGE REPAIR TO STANFORD DRIVE PM 0.08		
	PROJECT NO: FEMA 4301-DR-CA PW 585	CAL OES ID: 023-00000	DESIGNED BY: MMS	TRAFFIC CONTROL PLAN	
	CONTRACT NO: 217316		DRAWN BY: MMS		
	DRAWING FILE NAME: L:\217316_Stanford Drive PM 0.08\Design\217316_C2.DWG		REVIEWED BY: JAB		
	PLOT DATE: 2/28/2019		APPROVED BY: TRS		



SIGN PLACEMENT STANFORD DRIVE

SCALE: 1"=200'



RURAL CONSTRUCTION AREA SIGN

- NOT TO SCALE -

NOTES

- 1) SIGNS SHALL BE PLACED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
- 2) FINAL PLACEMENT OF SIGNS SHALL BE APPROVED BY RESIDENT ENGINEER.
- 3) ADDITIONAL PORTABLE SIGNS SHALL BE USED AS REQUIRED FOR OTHER ROADSIDE WORK.
- 4) SEE STANDARD PLAN T13 FOR TRAFFIC CONTROL SYSTEM.
- 5) IN ADDITION TO CONSTRUCTION AREA SIGNS AND WHEN DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGMEN AS NECESSARY TO DIRECT TRAFFIC.
- 6) TRAFFIC MESSAGE BOARD TO BE INSTALLED AT THE NORTHBOUND 101 OFF-RAMP BEFORE SOUTH BROADWAY STREET TO NOTIFY OF ROAD CLOSURE.

CONSTRUCTION AREA SIGN SUMMARY

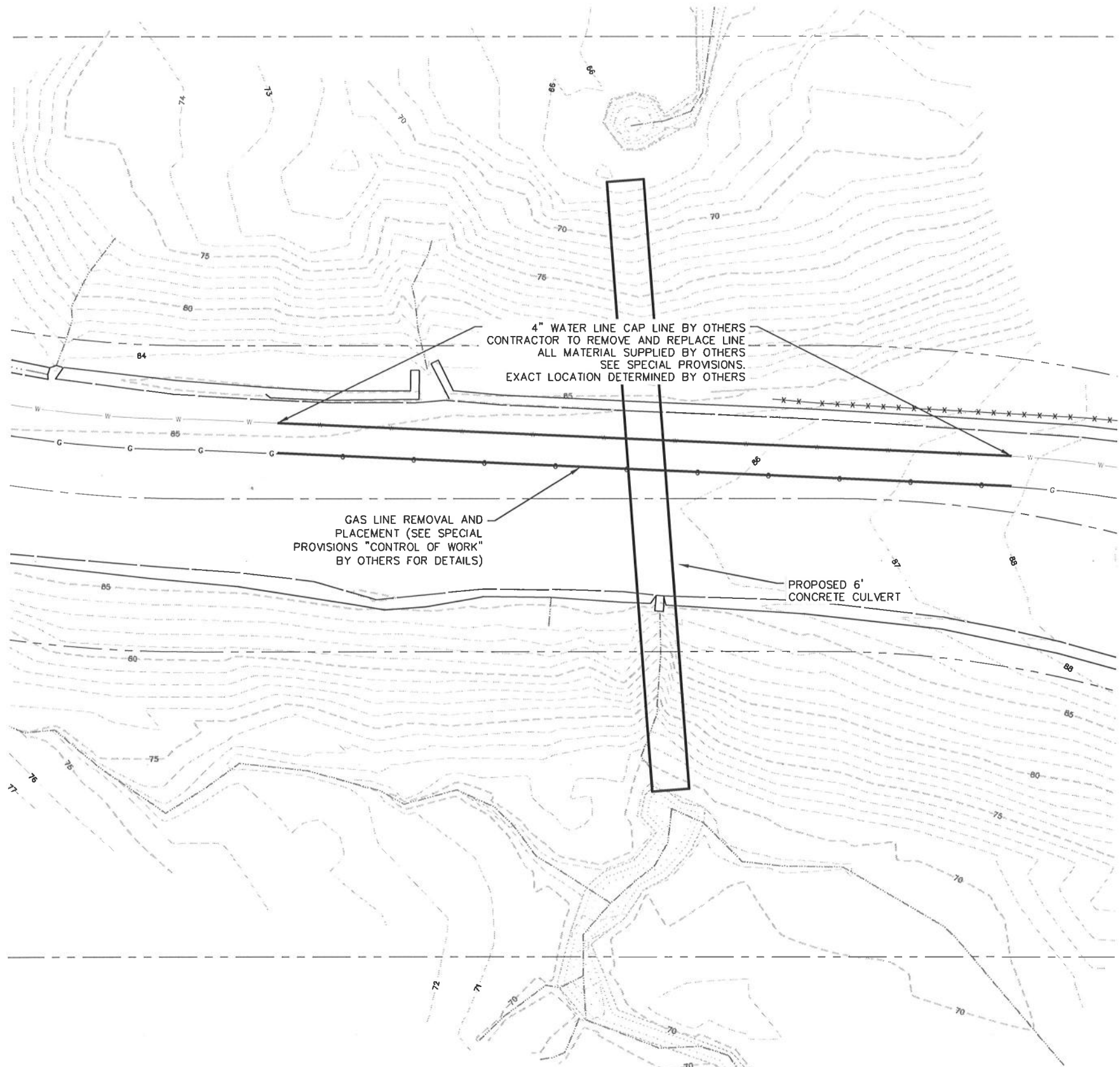
SIGN TYPE	QTY	DESCRIPTION	SIZE	REMARKS	POST SIZE	NUMBER OF POSTS
M4-10	1	DETOUR	48" x 18"	VISIBLE AT ALL TIMES	4" x 4"	1
C19	2	ROAD CLOSED AHEAD	48" x 48"	VISIBLE AT ALL TIMES	4" x 4"	1
R11-2	2	ROAD CLOSED	48" x 30"	VISIBLE AT ALL TIMES	4" x 4"	1



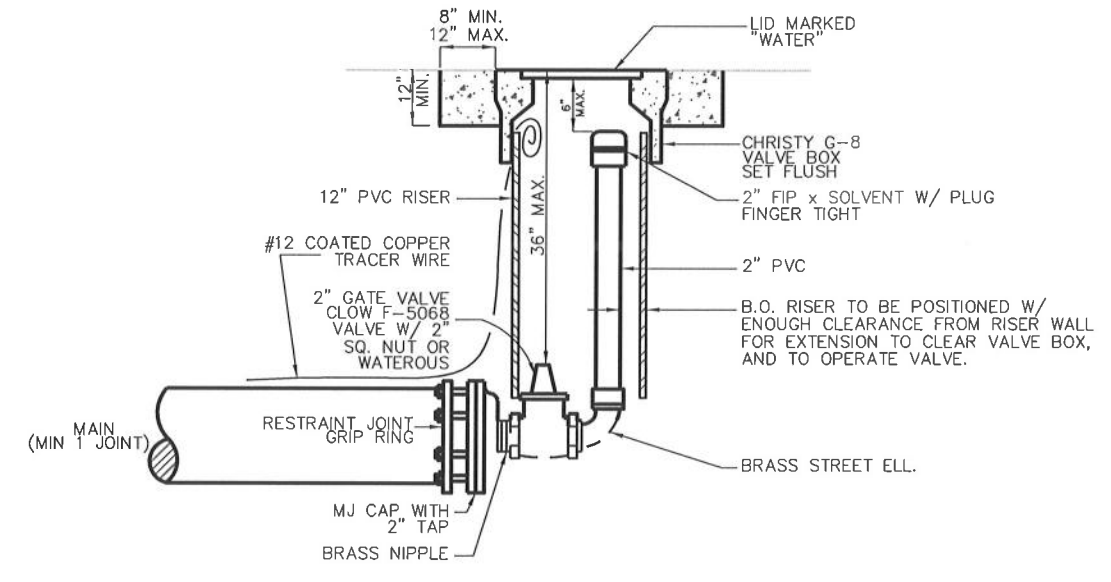
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ROAD NO: 3J200	ENGINEERING DIVISION
PROJECT NO: FEMA 4301-DR-CA PH 585	DESIGNED BY: MMS
CONTRACT NO.: 217316	DRAWN BY: MMS
DRAWING FILE NAME: L:\217316_Stanford Drive PM 0.08\Design\217316_C2.DWG	REVIEWED BY: JAB
PLOT DATE: 2/28/2019	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO STANFORD DRIVE PM 0.08 UTILITY DETAILS
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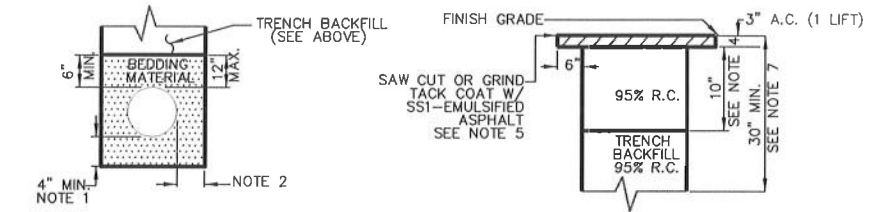
SHEET
4
OF
10



UTILITY REMOVAL PLAN
SCALE: 1"=10'



ENDLINE BLOW-OFF HCSD
NOT TO SCALE



TRENCH BACKFILL AND SURFACING HCSD
NOT TO SCALE

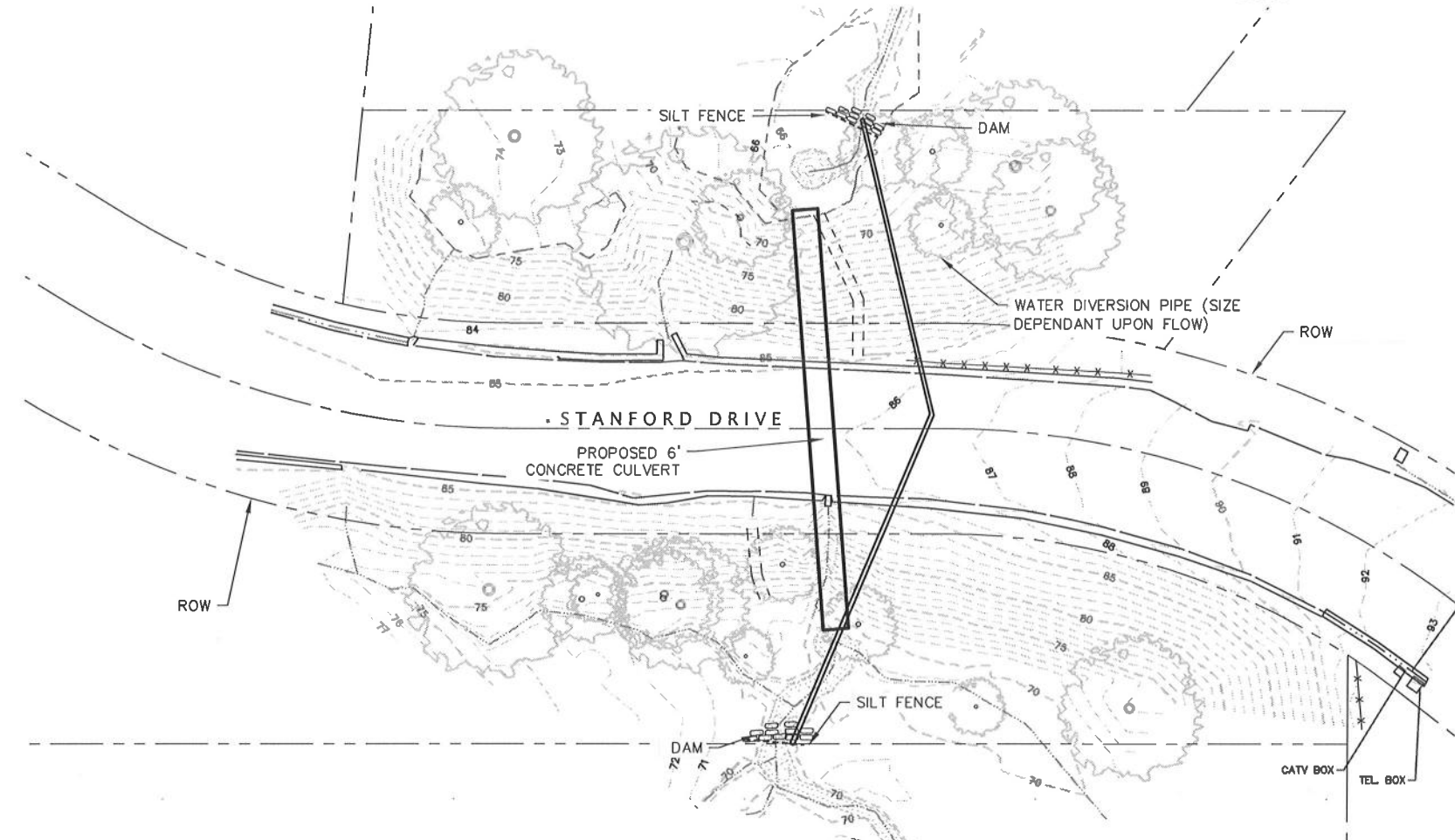
NOTES ON BACKFILL AND SURFACING:

- 1/4 PIPE O.D. OR 4" MIN. WHEN EXCAVATION IS IN ROCKY GROUND.
- PIPE DIAMETER 18" OR LESS: 6" MIN., 9" MAX/PIPE DIA. GREATER THAN 18": 9" MIN., 12" MAX.
- RELATIVE COMPACTION DESIGNATED R.C.
- THE MINIMUM STREET STRUCTURAL SECTION SHALL BE 3" A.C. ON 10" A.B. OR MATCH EXISTING PAVEMENT, WHICHEVER IS THICKER, SPECIFIED ON PLANS, OR REQUIRED BY ENCROACHMENT PERMIT.
- SAW CUT OR GRIND PAVEMENT SIX INCHES FROM EDGE OF TRENCH AFTER TRENCH IS BACKFILLED.
- MINIMUM PIPE COVER SHALL BE 36" WATER, 42" SEWER FROM TOP OF PIPE.
- NEW STREETS AND SHOULDER AREAS UNDER CONSTRUCTION SHALL BE COMPACTED TO 95% RELATIVE COMPACTION FOR A MINIMUM DEPTH OF 30" PER CALTRANS SECTION 19-5.03.
- INSTALL #12 COPPER COATED TRACER WIRE ON/OVER ALL NON-METALLIC MAINS.

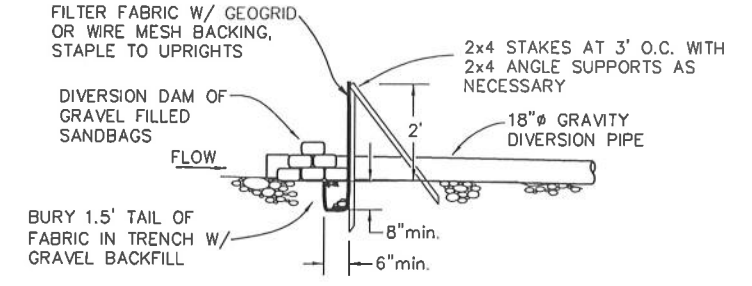


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PROJECT NO: FEMA 4301-DR-CA PH 585	MILE POST: 0.08
CONTRACT NO.: 217316	DESIGNED BY: MMS
DRAWING FILE NAME: L:\217316_Stanford Drive PM 0.08\Design\217316_C2.DWG	DRAWN BY: MMS
PLOT DATE: 2/28/2019	REVIEWED BY: JAB
	APPROVED BY: TRS

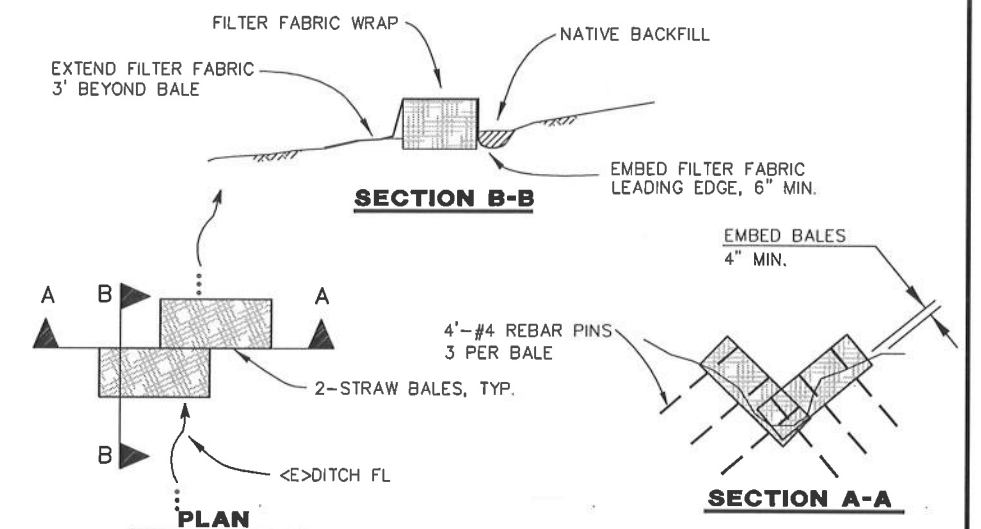
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO STANFORD DRIVE PM 0.08 WATER QUALITY AND TYPICAL SECTIONS	SHEET 5 OF 10
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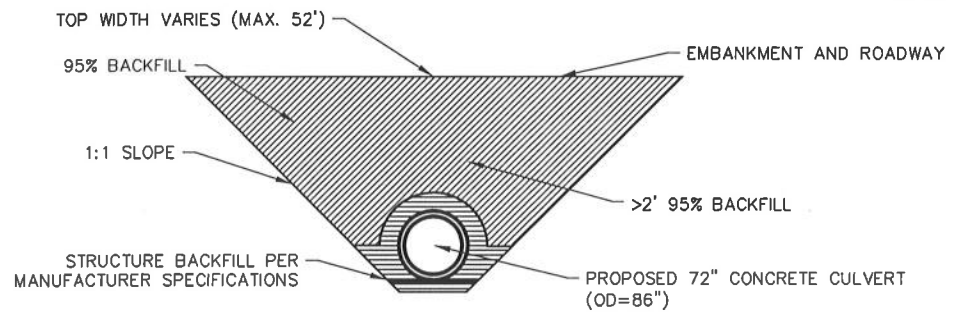
PUMP DIVERSION PLAN
SCALE: 1"=20'



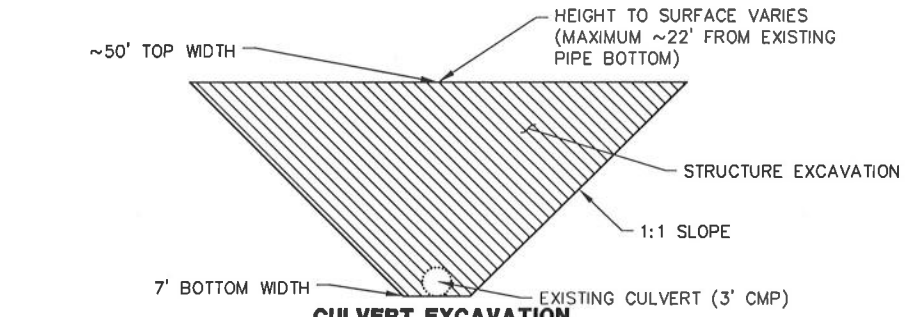
DETAIL
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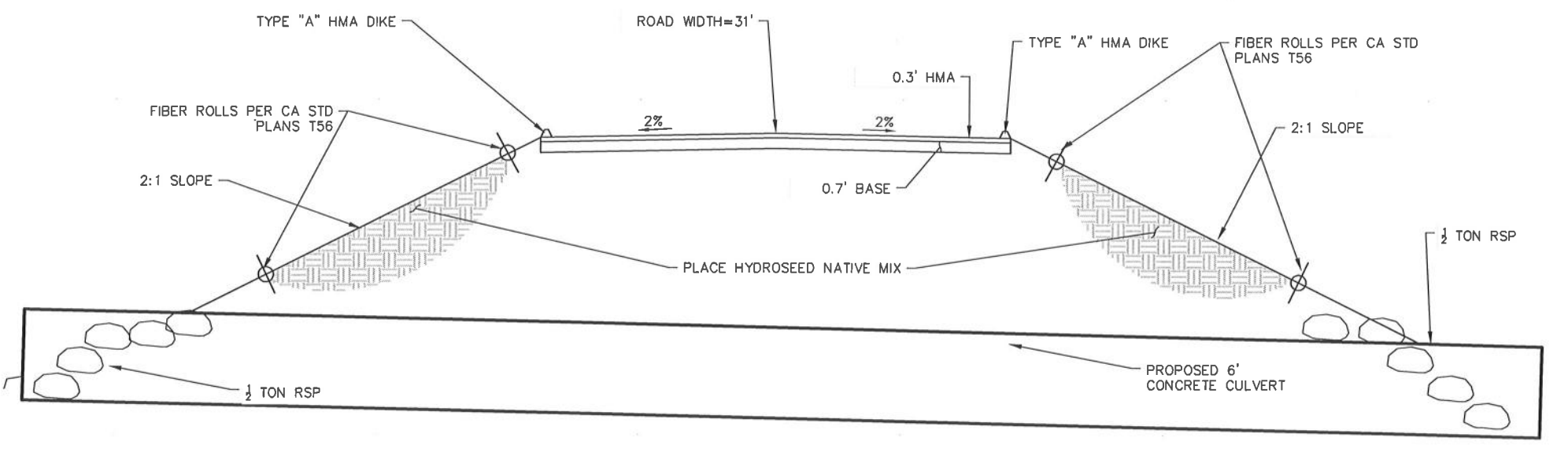
SILT DAM DETAIL
NOT TO SCALE



CULVERT BACKFILL STANFORD DRIVE
NOT TO SCALE



CULVERT EXCAVATION STANFORD DRIVE
NOT TO SCALE



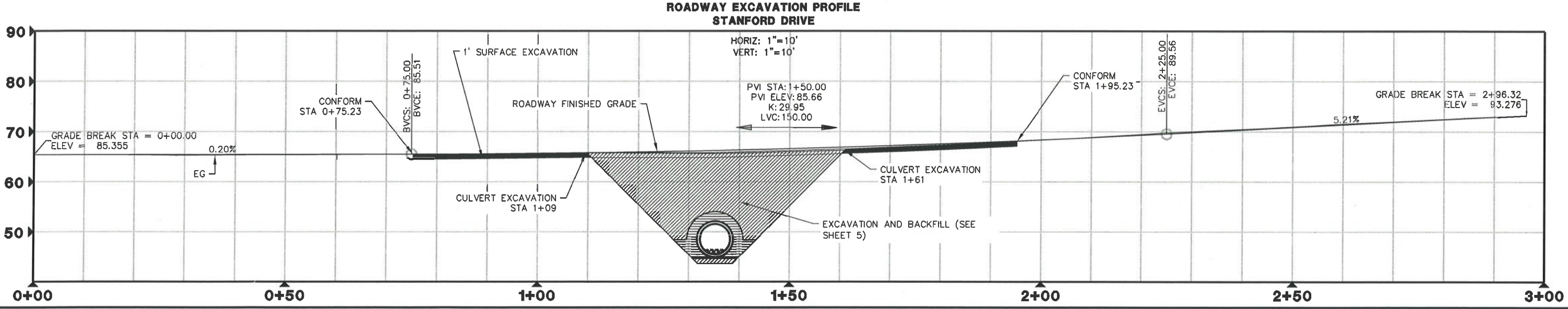
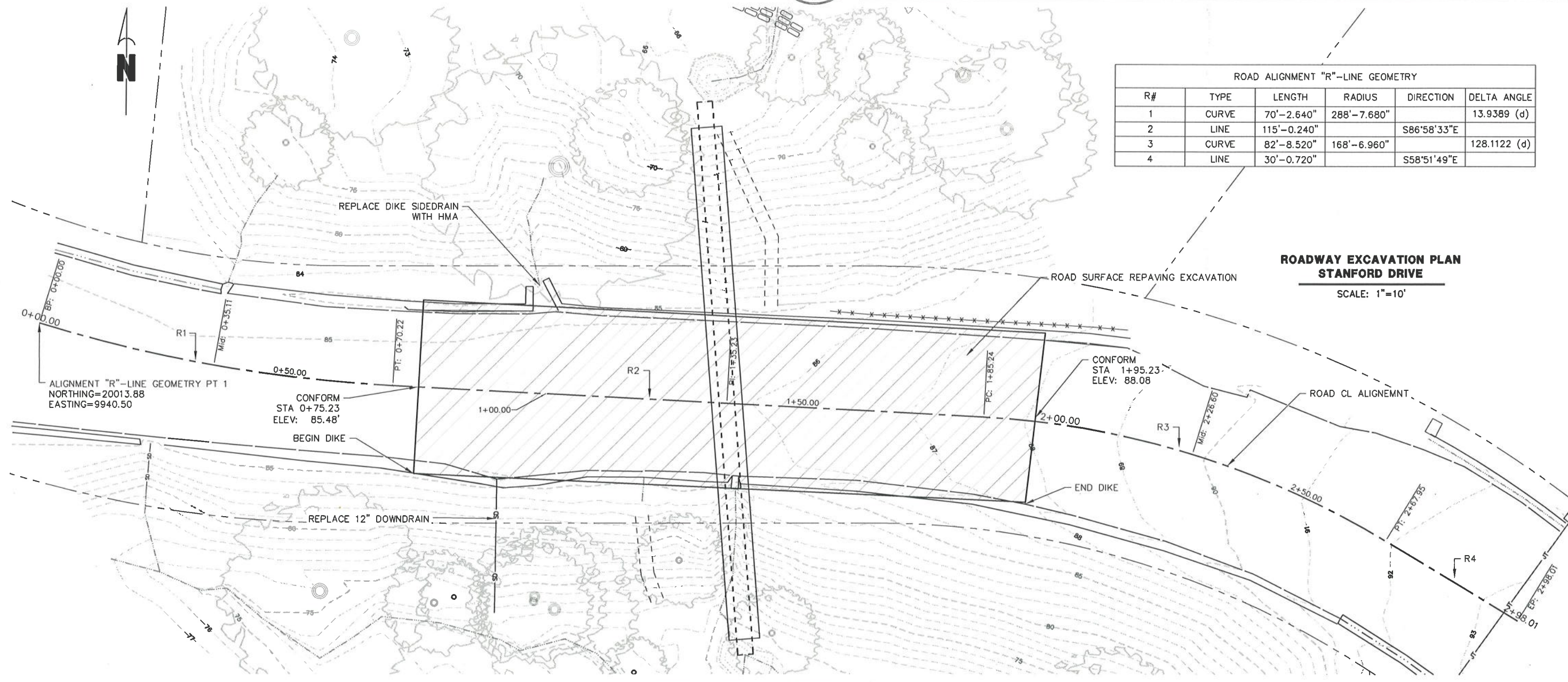
ROAD TYPICAL SECTION
SCALE: 1"=5'



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 ROAD NAME: STANFORD DRIVE
 ROAD NO: 3J200
 PROJECT NO: FEMA 4301-DR-CA PW 585
 CONTRACT NO: 217316
 DRAWING FILE NAME: L:\217316_Stanford Drive PM 0.08\Design\217316_C2.DWG
 PLOT DATE: 2/28/2019
 MILE POST: 0.08
 CAL OES ID: 023-00000
 DESIGN SECTION ENGINEERING DIVISION
 DESIGNED BY: MMS
 DRAWN BY: MMS
 REVIEWED BY: JAB
 APPROVED BY: TRS

COUNTY OF HUMBOLDT
 DEPARTMENT OF PUBLIC WORKS
 STORM DAMAGE REPAIR TO STANFORD DRIVE PM 0.08
 ROAD EXCAVATION PLAN AND PROFILE

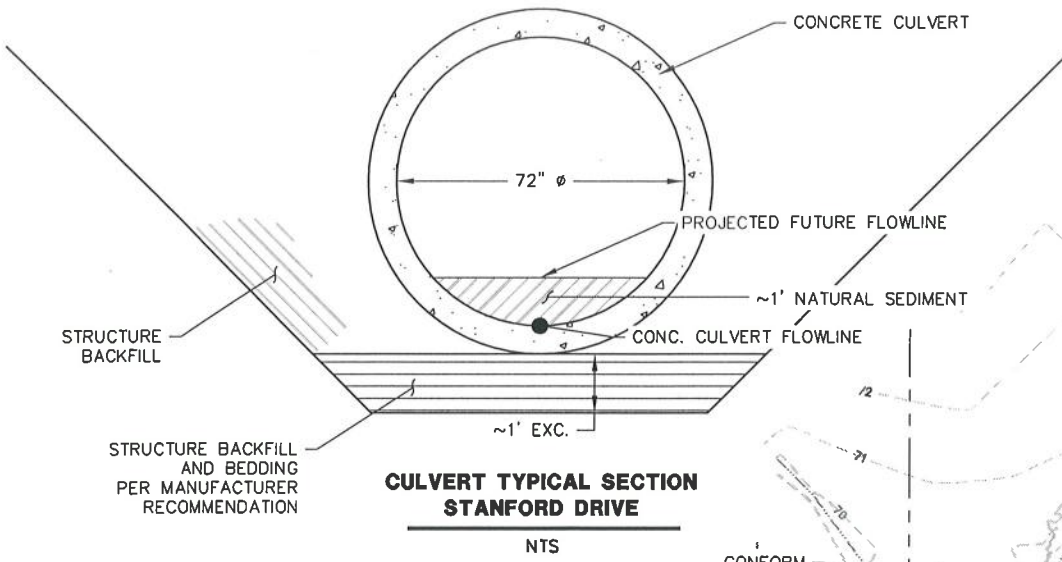
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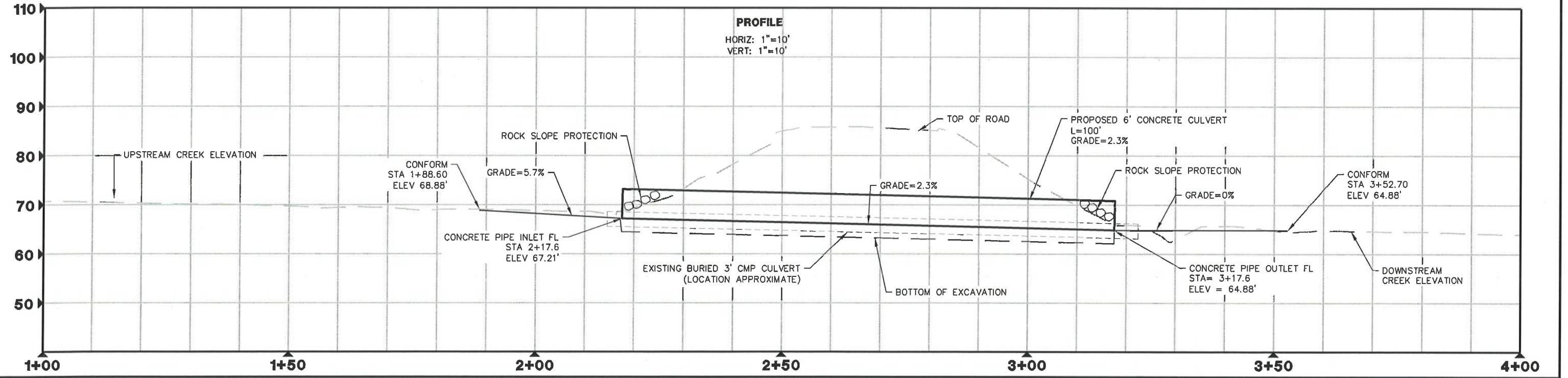
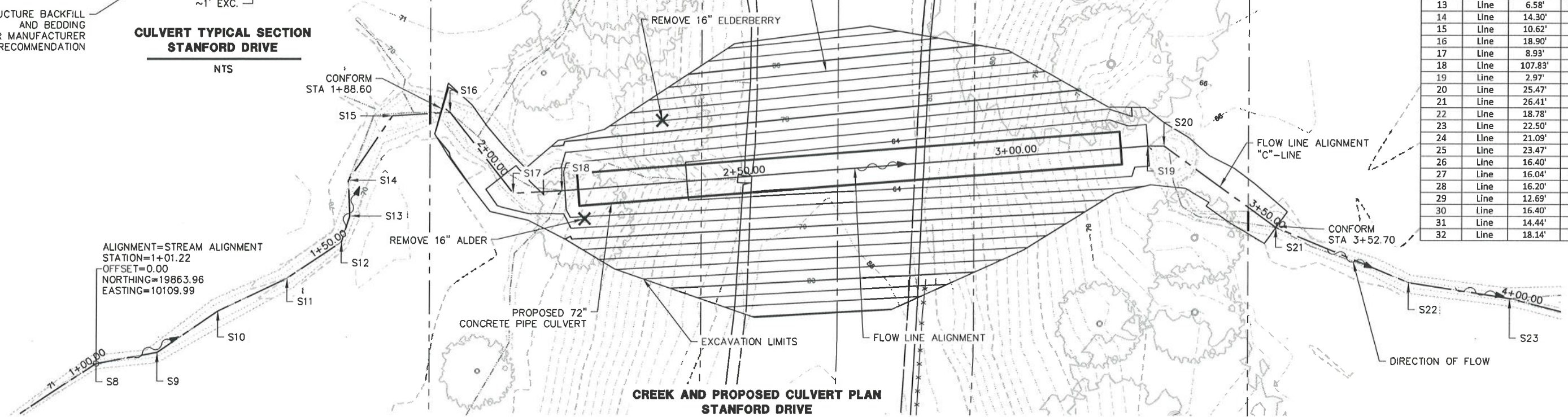


ROAD NAME: STANFORD DRIVE	DESIGN SECTION
ROAD NO: 3200	ENGINEERING DIVISION
PROJECT NO: FEMA 4301-DR-CA PW 505	MILE POST: 0.08
CONTRACT NO: 217316	CAL DES ID: 023-00000
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PLOT DATE: 2/28/2019	DRAWN BY: MMS
	REVIEWED BY: JAB
	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO STANFORD DRIVE PM 0.08 CULVERT/CHANNEL EXCAVATION PLAN AND PROFILE	SHEET 7 OF 10
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L#	Type	Length	Direction
1	Line	10.33'	N40° 43' 41"W
2	Line	14.60'	N44° 17' 08"W
3	Line	21.13'	N25° 08' 33"W
4	Line	18.42'	N12° 02' 13"W
5	Line	7.66'	N60° 41' 09"W
6	Line	9.59'	S88° 47' 33"W
7	Line	19.48'	N33° 13' 54"W
8	Line	11.34'	N10° 28' 44"W
9	Line	13.52'	N34° 10' 24"W
10	Line	14.07'	N25° 23' 07"W
11	Line	11.99'	N33° 55' 58"W
12	Line	4.97'	N72° 23' 49"W
13	Line	6.58'	S87° 31' 29"W
14	Line	14.30'	N55° 52' 28"W
15	Line	10.62'	N3° 28' 46"W
16	Line	18.90'	N51° 50' 39"E
17	Line	8.93'	N2° 59' 43"W
18	Line	107.83'	N4° 28' 03"W
19	Line	2.97'	N0° 00' 00"E
20	Line	25.47'	N35° 47' 44"E
21	Line	26.41'	N22° 32' 03"E
22	Line	18.78'	N8° 54' 30"E
23	Line	22.50'	N14° 11' 39"E
24	Line	21.09'	N4° 43' 40"W
25	Line	23.47'	N23° 19' 17"W
26	Line	16.40'	N42° 21' 08"W
27	Line	16.04'	N21° 25' 40"W
28	Line	16.20'	N21° 51' 19"W
29	Line	12.69'	N23° 34' 28"W
30	Line	16.40'	N15° 29' 34"W
31	Line	14.44'	N19° 53' 23"W
32	Line	18.14'	N1° 04' 04"W



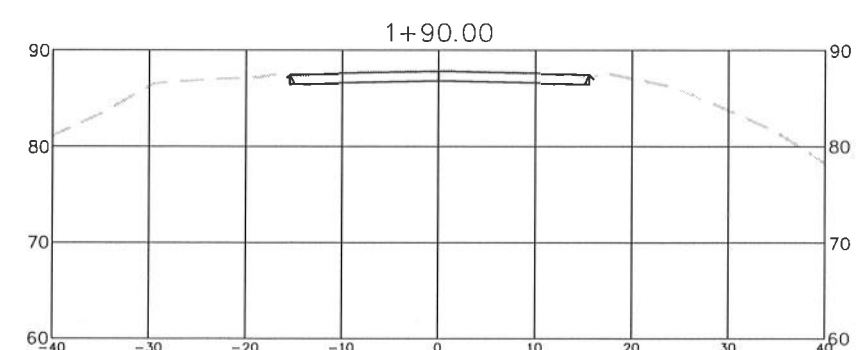
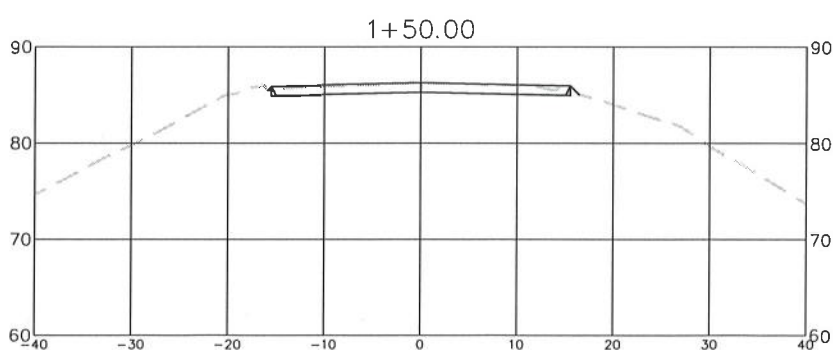
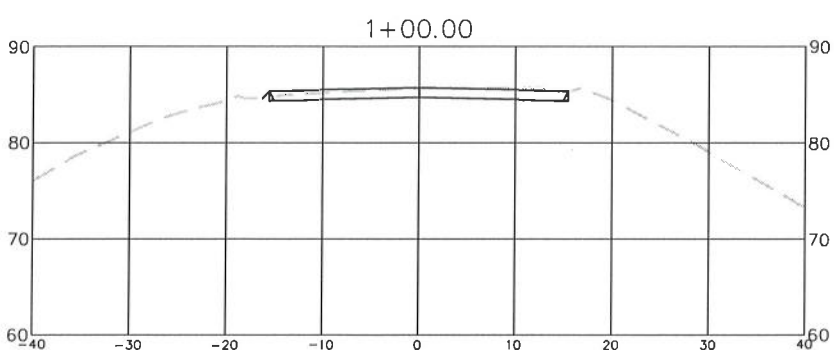
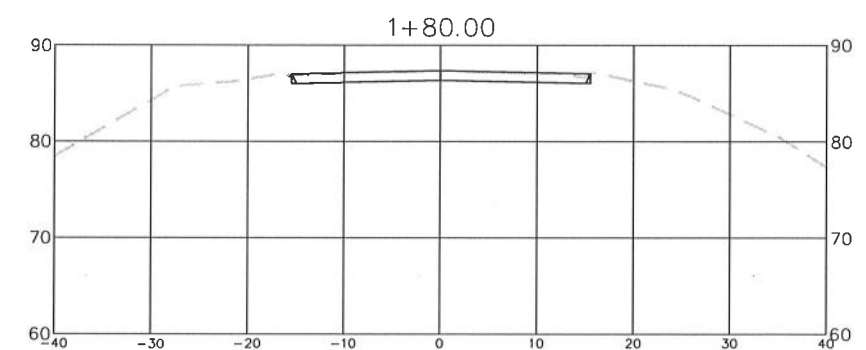
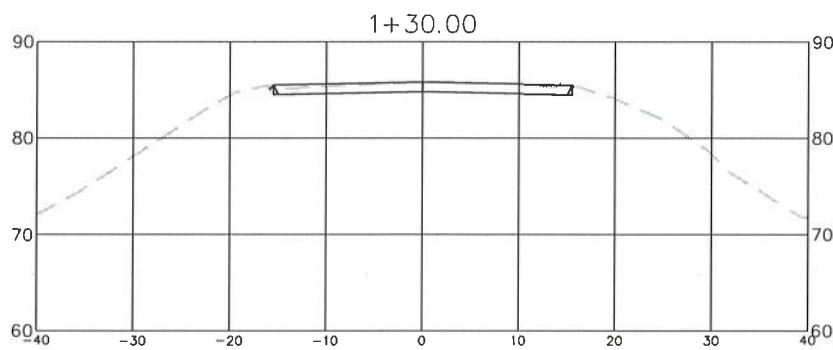
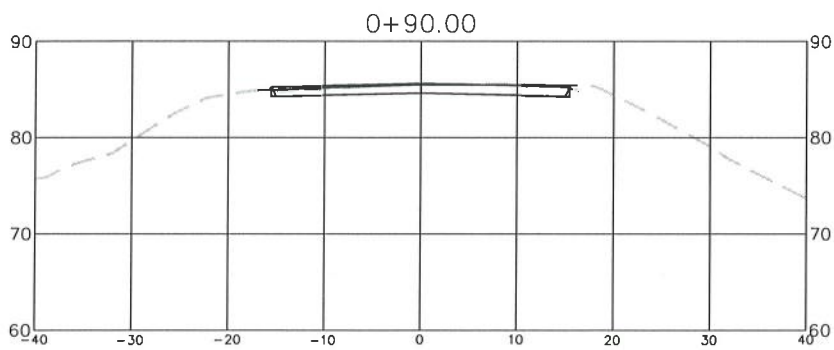
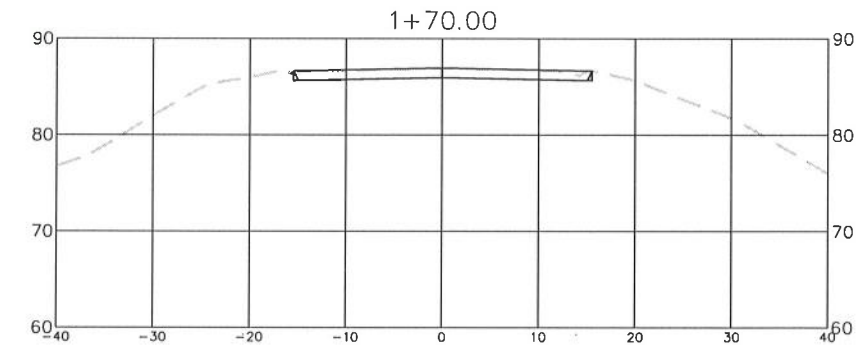
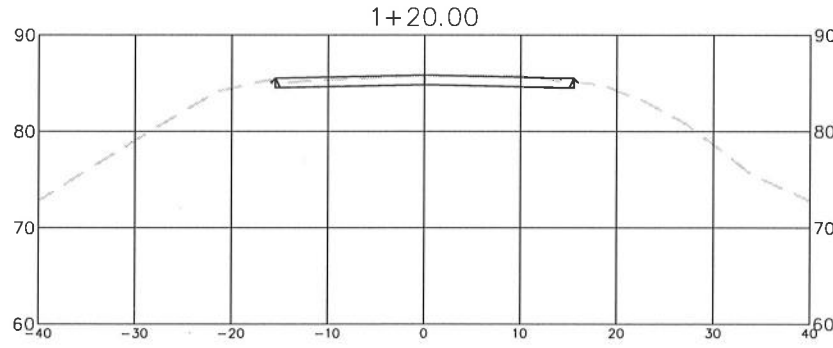
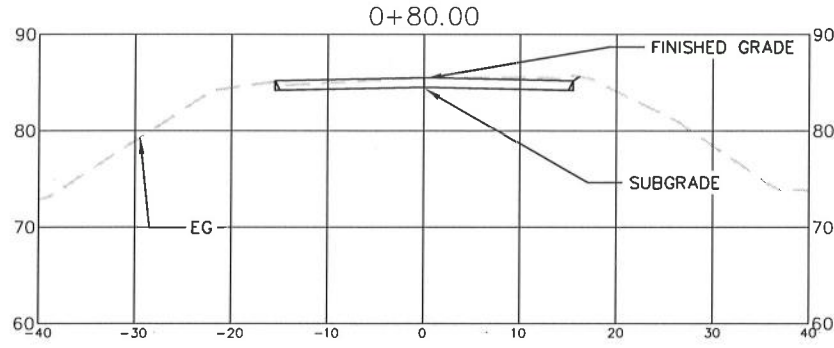
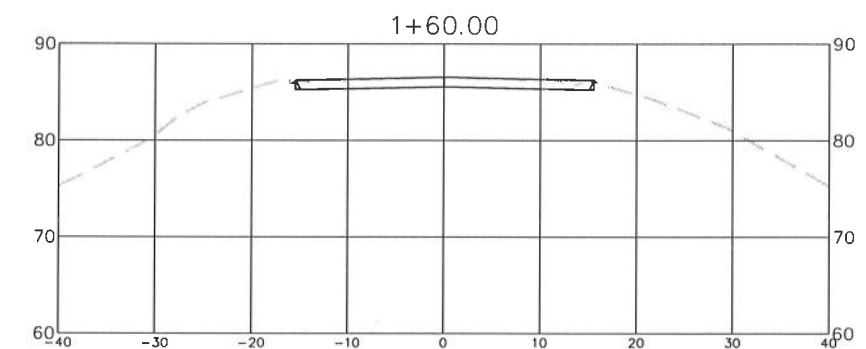
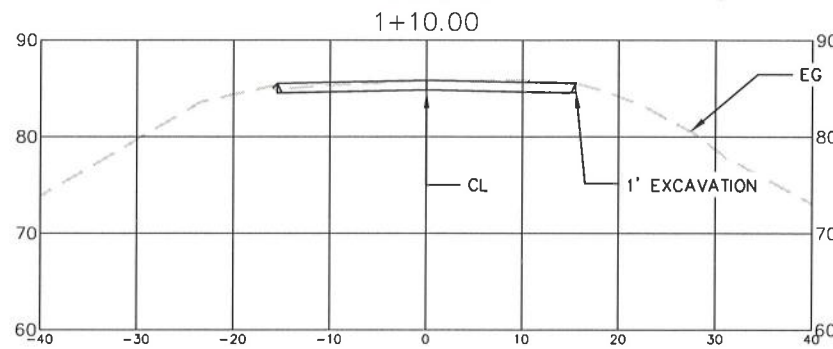
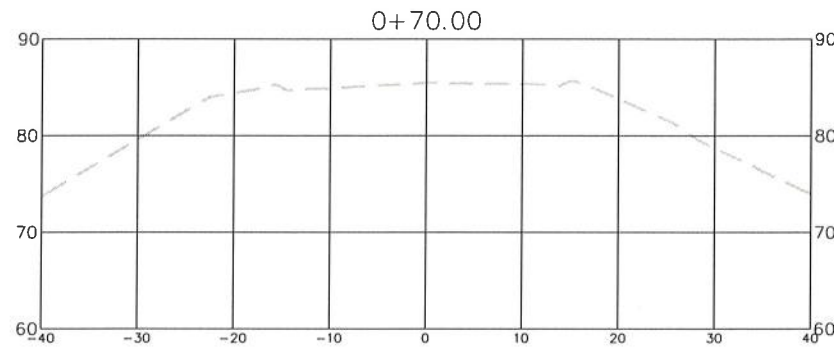


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	ROAD NO: 3J200	ENGINEERING DIVISION	
	PROJECT NO: FEMA 4301-DR-CA PW 585	DESIGNED BY: MMS	
	CONTRACT NO: 217316	DRAWN BY: MMS	
	MILE POST: 0.08	REVIEWED BY: JAB	STORM DAMAGE REPAIR TO STANFORD DRIVE PM 0.08
	CAL OES ID: 023-00000	APPROVED BY: TRS	
	DRAWING FILE NAME: L:\217316_Stanford Drive PM 0.08\Design\217316_C2.DWG		ROAD EXCAVATION CROSS SECTIONS
	PLOT DATE: 2/28/2019		

SHEET
8
OF
10

ROAD EXCAVATION CROSS SECTIONS STANFORD DRIVE

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



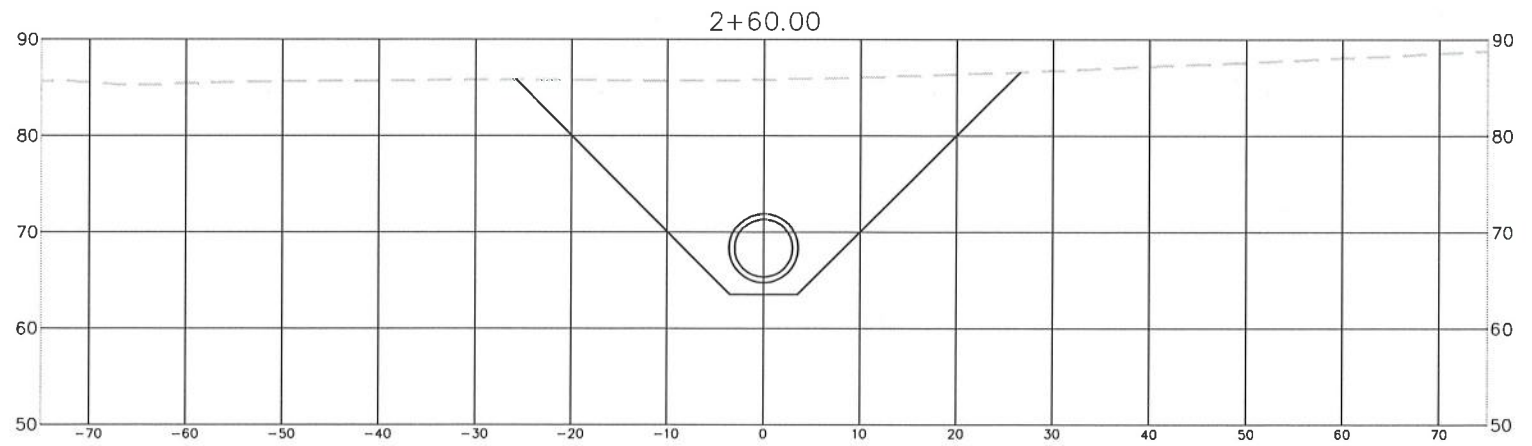
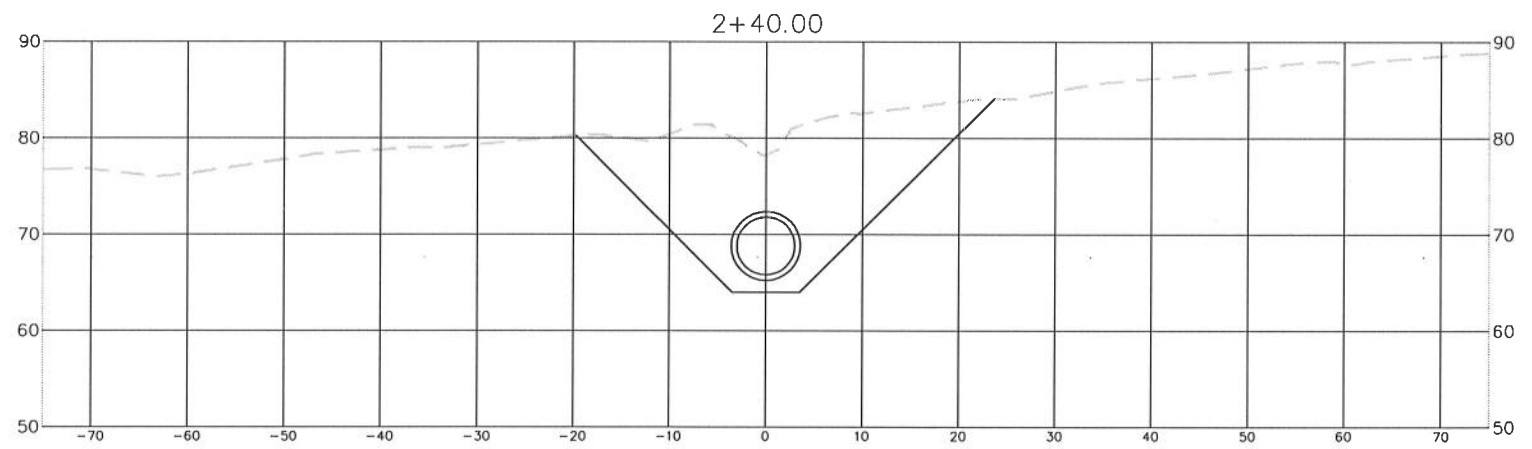
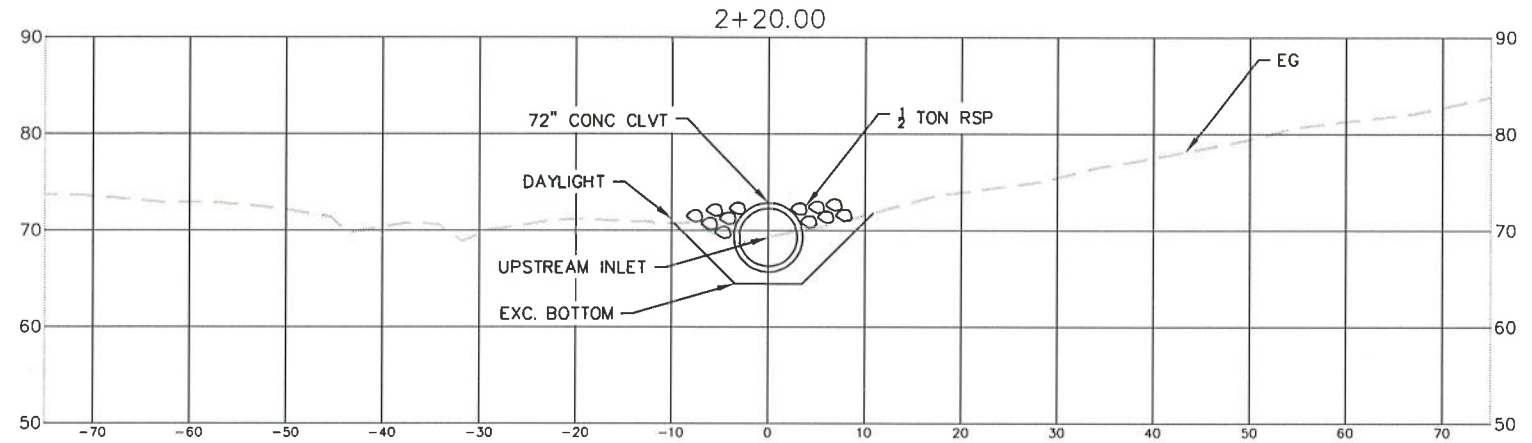
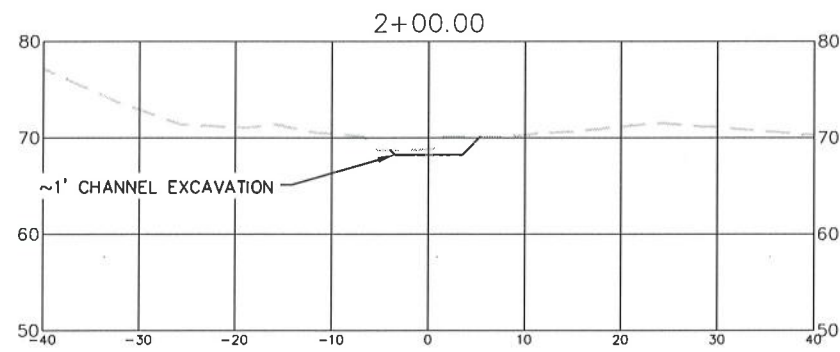
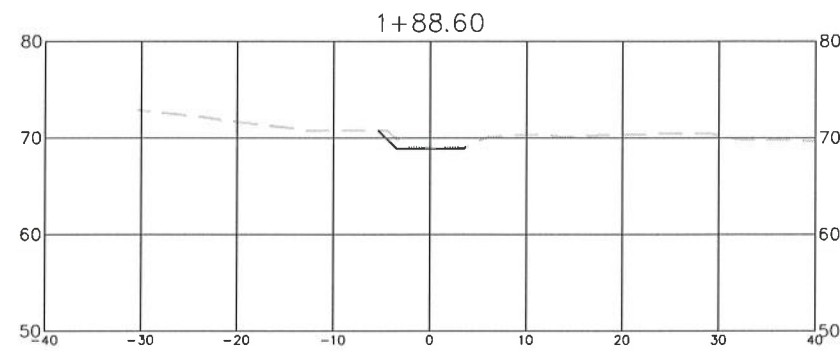


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	PLOT DATE: 2/28/2019	DRAWN BY: MMS	
		REVIEWED BY: JAB	
		APPROVED BY: TRS	CULVERT EXCAVATION CROSS SECTIONS (1+88 TO 2+60)

SHEET
9
OF
10

**CREEK AND CULVERT EXCAVATION CROSS SECTIONS
STANFORD DRIVE**

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





BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: STANFORD DRIVE	MILE POST: 0.08
ROAD NO: 3J200	CAL OES ID: 023-00000
PROJECT NO: FEMA 4301-DR-CA PW 585	CONTRACT NO.: 217316
DRAWING FILE NAME: L:\217316_Stanford Drive PM 0.08\Design\217316_C2.DWG	
PLOT DATE: 2/28/2019	

DESIGN SECTION
ENGINEERING DIVISION
DESIGNED BY: MMS
DRAWN BY: MMS
REVIEWED BY: JAB
APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR TO STANFORD DRIVE PM 0.08
CULVERT EXCAVATION CROSS SECTIONS (2+80 TO 3+40)

SHEET
10
OF
10

CREEK AND CULVERT EXCAVATION CROSS SECTIONS STANFORD DRIVE

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

