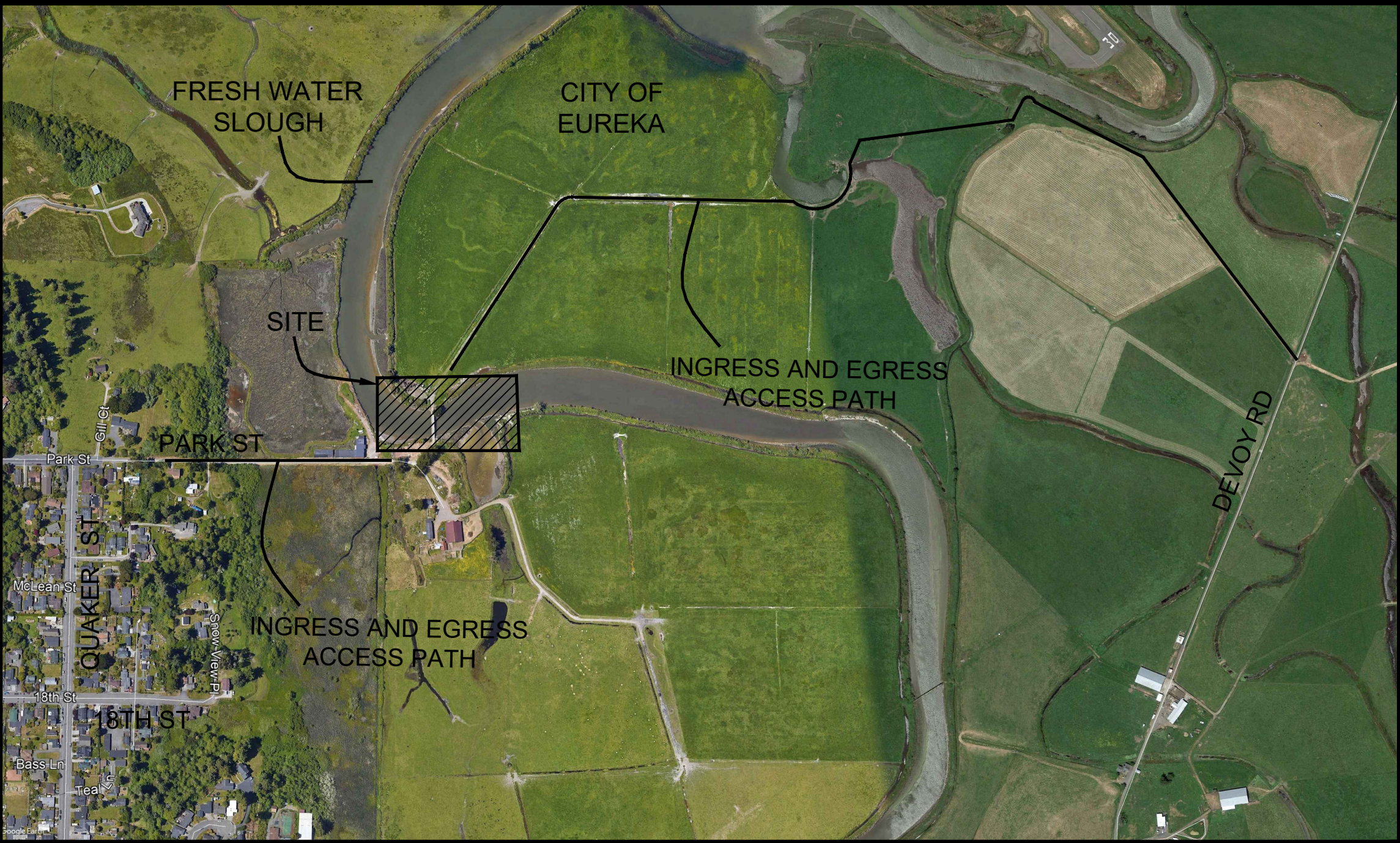
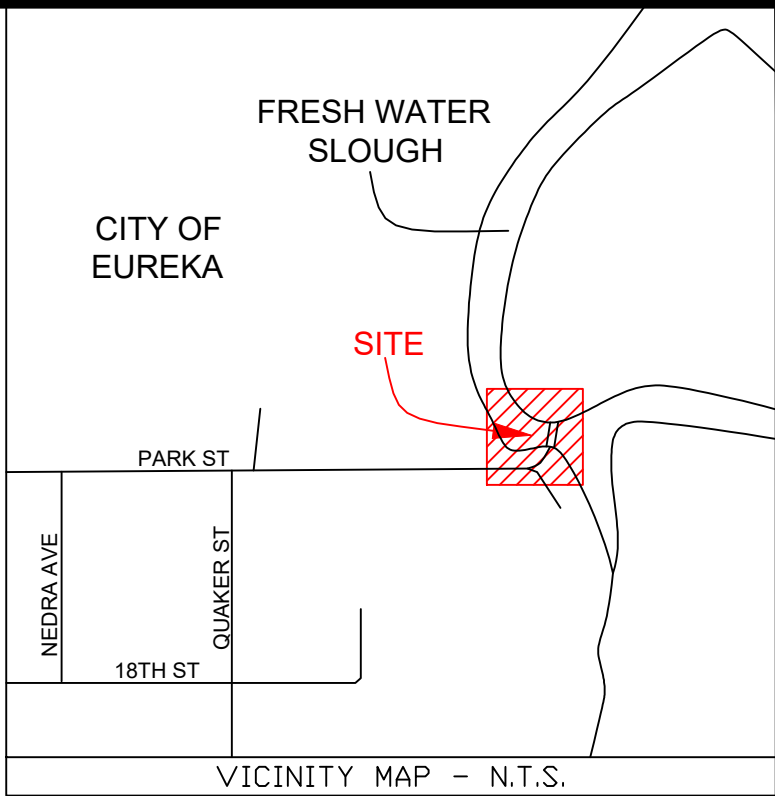




INGRESS AND EGRESS ACCESS MAP



SURVEY DATA:
BENCHMARK: LV0643
DATUM: NAVD83
ELEVATION: 9.09 FT
SURVEY DATE: NOVEMBER 2018

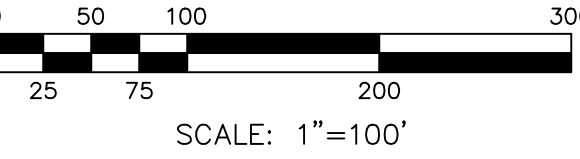
- NOTES:
- 1) TOPOGRAPHIC SURVEY WAS CONDUCTED BY KELLY-O'HERN ASSOCIATES.
 - 2) TOPOGRAPHIC SURVEY WAS MERGED WITH BATHYMETRIC SURVEY CONDUCTED BY eTRAC INC.
 - 3) REFER TO SHEET 4 OF 4 FOR MISCELLANEOUS CONSTRUCTION DETAILS AND NOTES.

LEGEND

- PROPOSED LAYDOWN AREA
- PROPOSED DISTURBED AREA
- R-354 ALIGNMENT - RETIRED
- LEVEE ALIGNMENT
- APPROXIMATE EXCLUSION AREA
- MEAN HIGH WATER LINE
- JOIN LINE OF TOP OF BANK & EXCAVATION PIT (±)

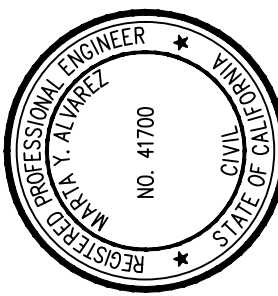


GRAPHIC SCALE



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PG&E L-137B FRESHWATER SLOUGH
RETIRED CROSSING
DECOMMISSIONING PROJECT R-354

REVISIONS:		DATE:	DESCRIPTION:	DRAWN:	CHECKED:	APPROVED:
No.	1	01/31/19	PRELIMINARY - MISC. REVISION	TTC	SA	
2	02/19/19	ADDED PROPOSED 8" TP GAS MAIN PER "AS BUILT" PIPE FILE B-MAP000191654	TTC	4EO		
3	05/17/19	REPLACED ROCK LEVEE WITH CONCRETE MATS	CM	4EO		
4	06/13/19	UPDATE PERMANENT & TEMPORARY IMPACT AREAS	CM	4EO		
5	07/15/19	UPDATE CONCRETE DESIGN	CR	4EO		
6	10/16/19	REVISIONS TO IMPACT AREAS AND COVER SHEET	CMF	4EO		

DRAWING NO.	1018-08
SHEET NAME:	LOCATION MAP
Sheet No.	T-1
1 OF 6	



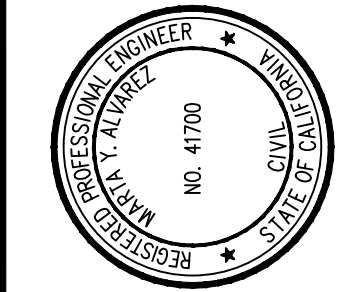
SURVEY DATA:
BENCHMARK: LV0643
DATUM: NAVD88
ELEVATION: 9.09 FT
SURVEY DATE: NOVEMBER 2018

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- LEGEND**
- PROPOSED LAYDOWN AREA
 - PROPOSED DISTURBED AREA
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 - JOIN LINE OF TOP OF BANK & EXCAVATION PIT (±)

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EMAIL: MSTEEFY@LONGITUDE123.NET



PG&E R-519 LINE-137C REMEDIATION
PROJECT EUREKA, CA FRESHWATER
SLOUGH RETIRED CROSSING
DECOMMISSIONING PROJECT R-354

REVISIONS:		DATE:	DESCRIPTION:	DRAWN:	CHECKED:	APPROVED:
No.	△	01/31/19	PRELIMINARY - MISC. REVISION	TTC	SA	
1	△	03/14/19	ADDED PROPOSED 8" TP GAS MAIN PER "AS BUILT" PIPE FILE B-MAP00019164	TTC	4EO	
2	△	05/17/19	REPLACED ROCK LEVEE WITH CONCRETE MATS	CM	4EO	
3	△	06/13/19	UPDATE PERMANENT & TEMPORARY IMPACT AREAS	CM	4EO	
4	△	07/15/19	UPDATE CONCRETE DESIGN	CR	4EO	
5	△	10/16/19	REVISIONS TO IMPACT AREAS AND COVER SHEET	CMF	4EO	

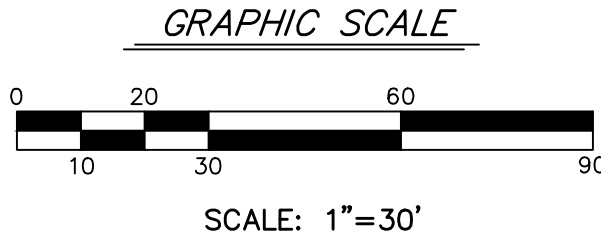
DRAWING NO. 1018-08
SHEET NAME: SITE PLAN
Sheet No. T-2
2 OF 6



SURVEY DATA:
BENCHMARK: LV0643
DATUM: NAVD88
ELEVATION: 9.09 FT
SURVEY DATE: NOVEMBER 2018

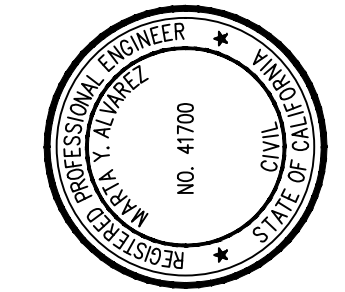
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 - R-354 ALIGNMENT - RETIRED
 - LEVEE ALIGNMENT
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 - MEAN HIGH WATER LINE
 - JOIN LINE OF TOP OF BANK & EXCAVATION PIT (±)
 - TEMPORARY IMPACT AREA
 - PERMANENT IMPACT AREA



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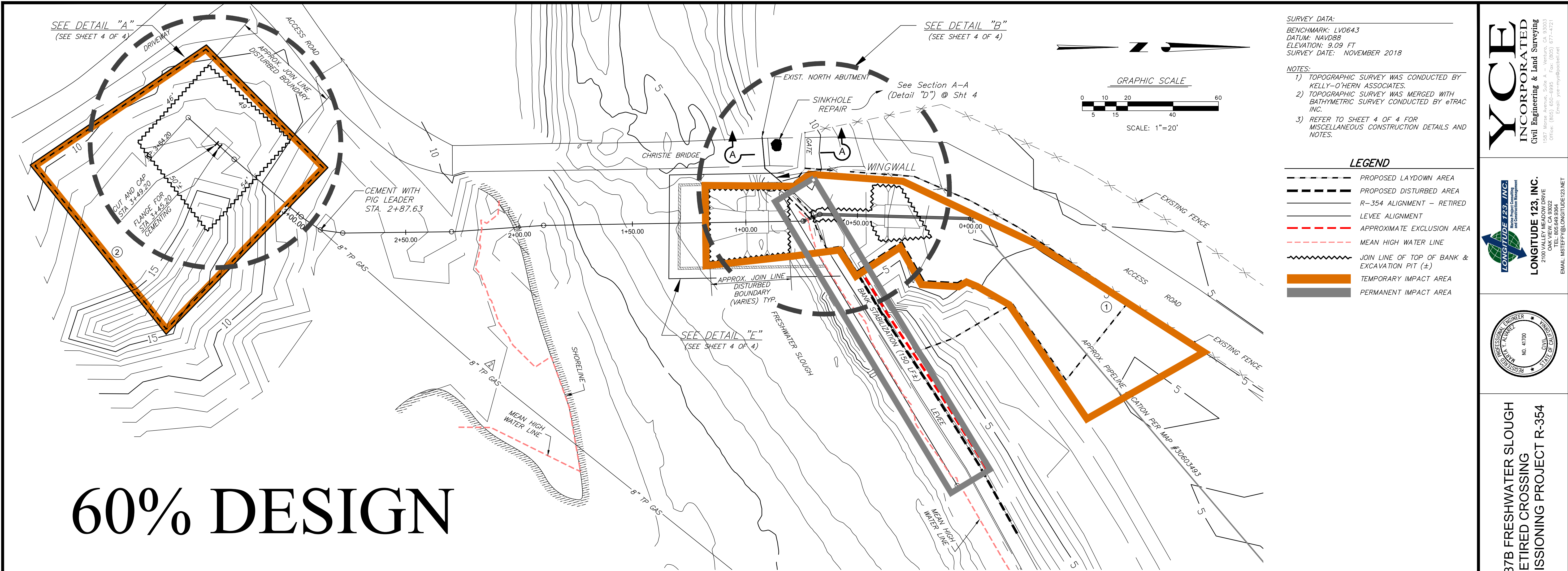
LONGITUDE 123, INC.
2100 VALLEY MEADOW DRIVE
VENTURA, CA 93003
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EMAIL: MSTEEFY@LONGITUDE123.NET



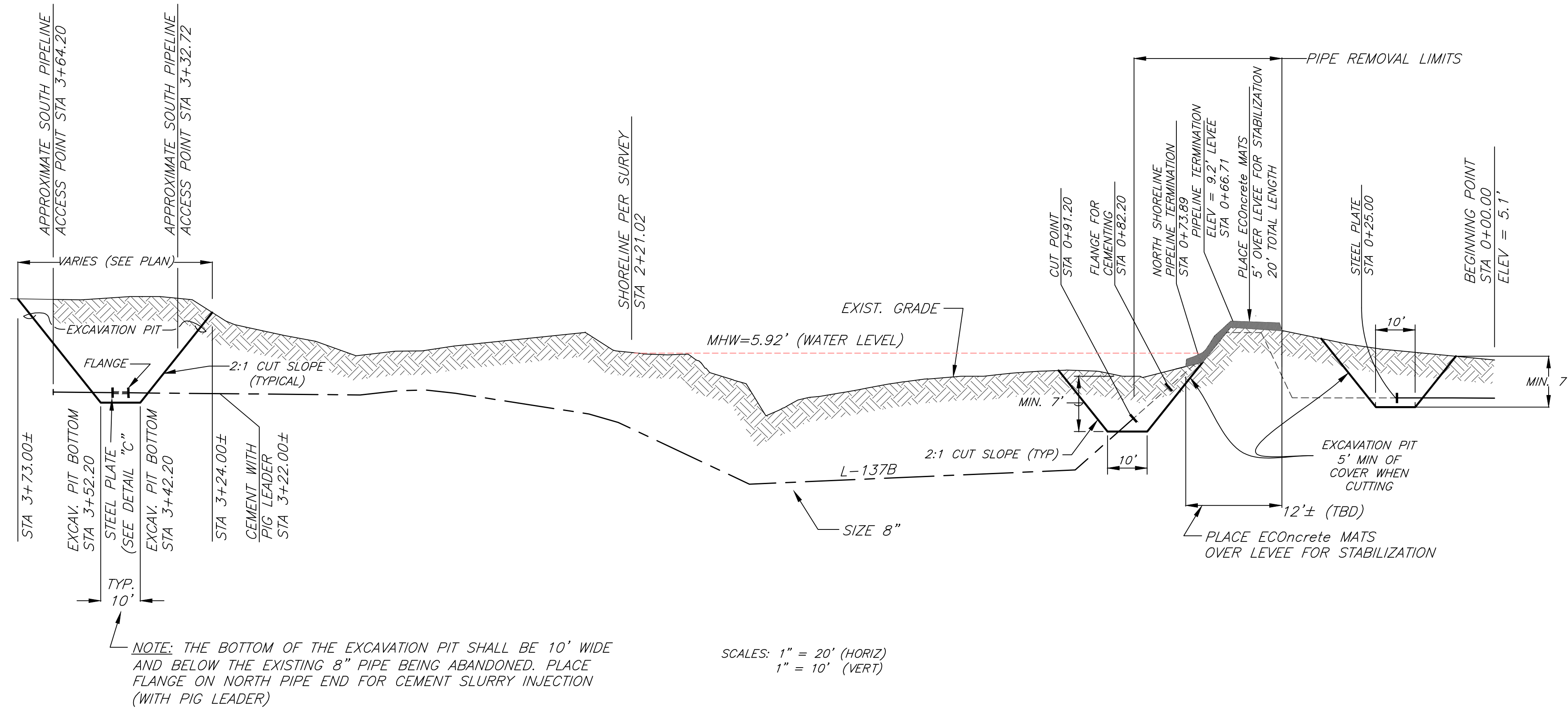
**PG&E L-137B FRESHWATER SLOUGH
RETIRED CROSSING
DECOMMISSIONING PROJECT R-354**

REVISIONS:		DATE:	DESCRIPTION:	DRAWN:	CHECKED:	APPROVED:
No.	△	01/31/19	PRELIMINARY - MISC. REVISION	TTC	SA	
1	△	03/14/19	ADDED PROPOSED 8" TP GAS MAIN PER 'AS BUILT' PIP FILE B-MAP00019164	TTC	4EO	
2	△	05/17/19	REPLACED ROCK LEVEE WITH CONCRETE MATS	CM	4EO	
3	△	06/13/19	UPDATE PERMANENT & TEMPORARY IMPACT AREAS	CM	4EO	
4	△	07/15/19	UPDATE CONCRETE DESIGN	CR	4EO	
5	△	10/16/19	REVISIONS TO IMPACT AREAS AND COVER SHEET	CMF	4EO	

DRAWING NO. 1018-08
SHEET NAME: SITE PLAN
Sheet No. T-3
2 OF 6



60% DESIGN



AREA FOR IMPACT LIMITS	
PERMANENT IMPACT AREA	3000 SQ. FT.
① TEMPORARY IMPACT AREA	7869 SQ. FT.
② TEMPORARY IMPACT AREA	8376 SQ. FT.

R-354 ORDER OF COMPLETION

- 1) PIG AND FLUSH 8" PIPE FROM STA 3+45.20 TO STA 0+82.20.
- 2) CEMENT 8" PIPE FROM STA 3+45.20 TO STA 0+82.20, INSTALL STEEL PLATES ON REMAINING ENDS, BACKFILL WITH SPOILS AND NATIVE SOILS.
- 3) EXCAVATE SLOUGH BED, CUT AND REMOVE 8" PIPE FROM STA 0+91.20 TO STA 0+82.20, BACKFILL WITH CRUSHED ROCK.
- 4) SLIT TRENCH LEVEE CROWN FROM STA 0+73.89 TO STA 0+40.00 AND EXCAVATE WORKING AREA FROM STA 0+40.00 TO STA 0+10.00.
- 5) CUT AND REMOVE 8" PIPE FROM STA 0+73.89 TO STA 0+25.00, INSTALL STEEL PLATE ON REMAINING END, BACKFILL WITH SPOILS AND NATIVE SOILS.

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REGISTERED PROFESSIONAL ENGINEER

KARL Y. ALVAREZ

NO. 44700

CIVIL

STATE OF CALIF.

PG&E L-137B FRESHWATER SLOUGH RETIRED CROSSING DECOMMISSIONING PROJECT R-354

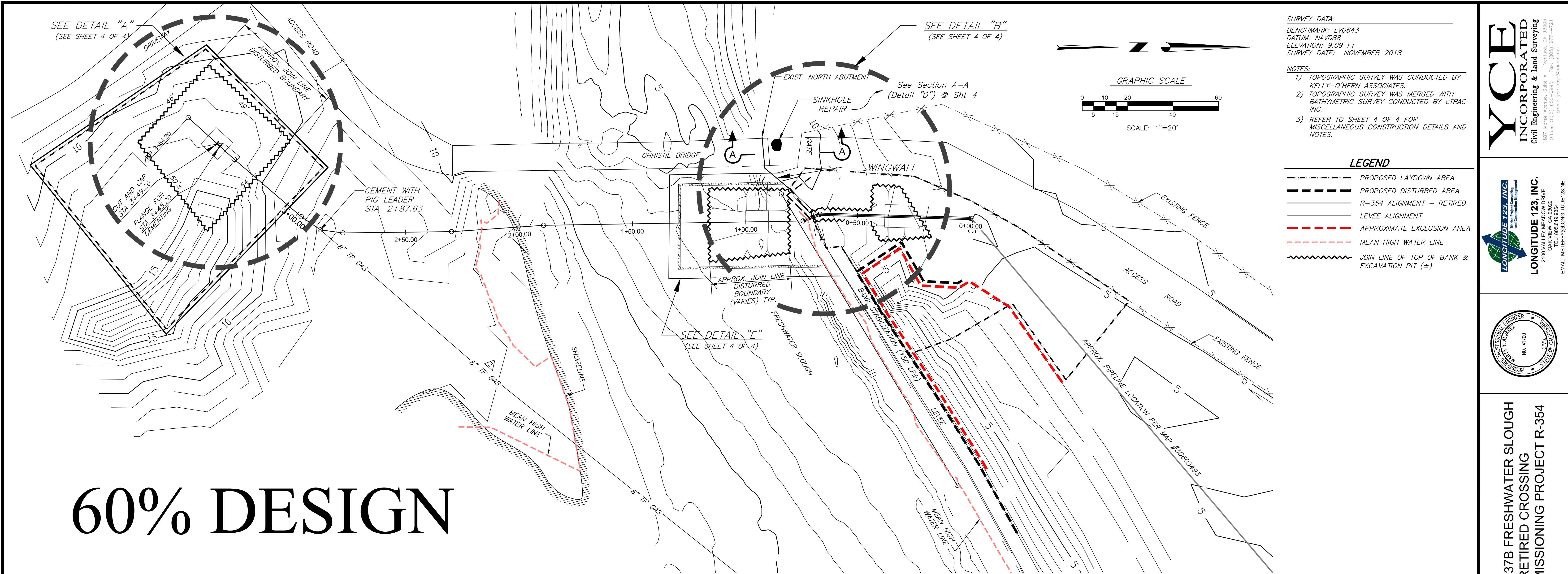
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REPLACED ROCK LEVEE WITH CONCRETE MATS		05/17/19	3		CM	4EO	
UPDATE PERMANENT & TEMPORARY IMPACT AREAS		06/13/19	4		CM	4EO	
UPDATE CONCRETE DESIGN		07/15/19	5		CR	4EO	
REVISIONS TO IMPACT AREAS AND COVER SHEET		10/16/19	6		CMF	4EO	

DRAWING NO.
1018-08

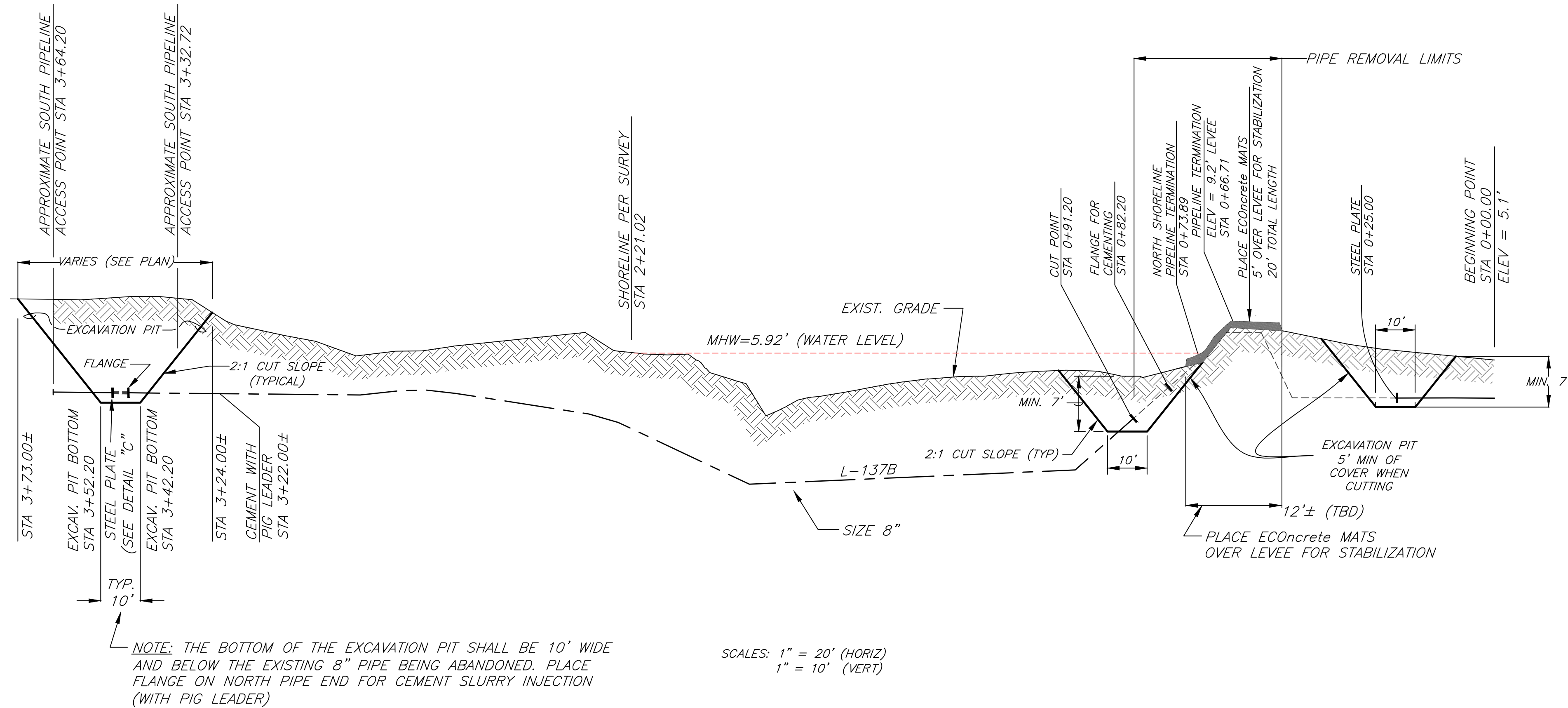
SHEET NAME:
PLAN AND PROFILE

Sheet No.
D-1

3 OF 4



60% DESIGN



R-354 ORDER OF COMPLETION

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- 5) CUT AND REMOVE 8" PIPE FROM STA 0+73.89 TO STA 0+25.00, INSTALL STEEL PLATE ON REMAINING END, BACKFILL WITH SPOILS AND NATIVE SOILS.

SURVEY DATA:
BENCHMARK: LVO643
DATUM: NAVD88
ELEVATION: 9.09 FT
SURVEY DATE: NOVEMBER 2018

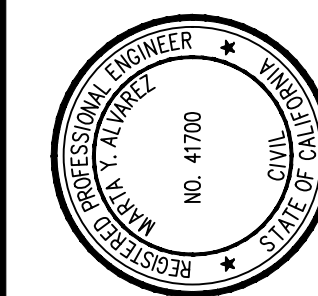
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PG&E L-137B FRESHWATER SLOUGH
RETIRED CROSSING
DECOMMISSIONING PROJECT R-354

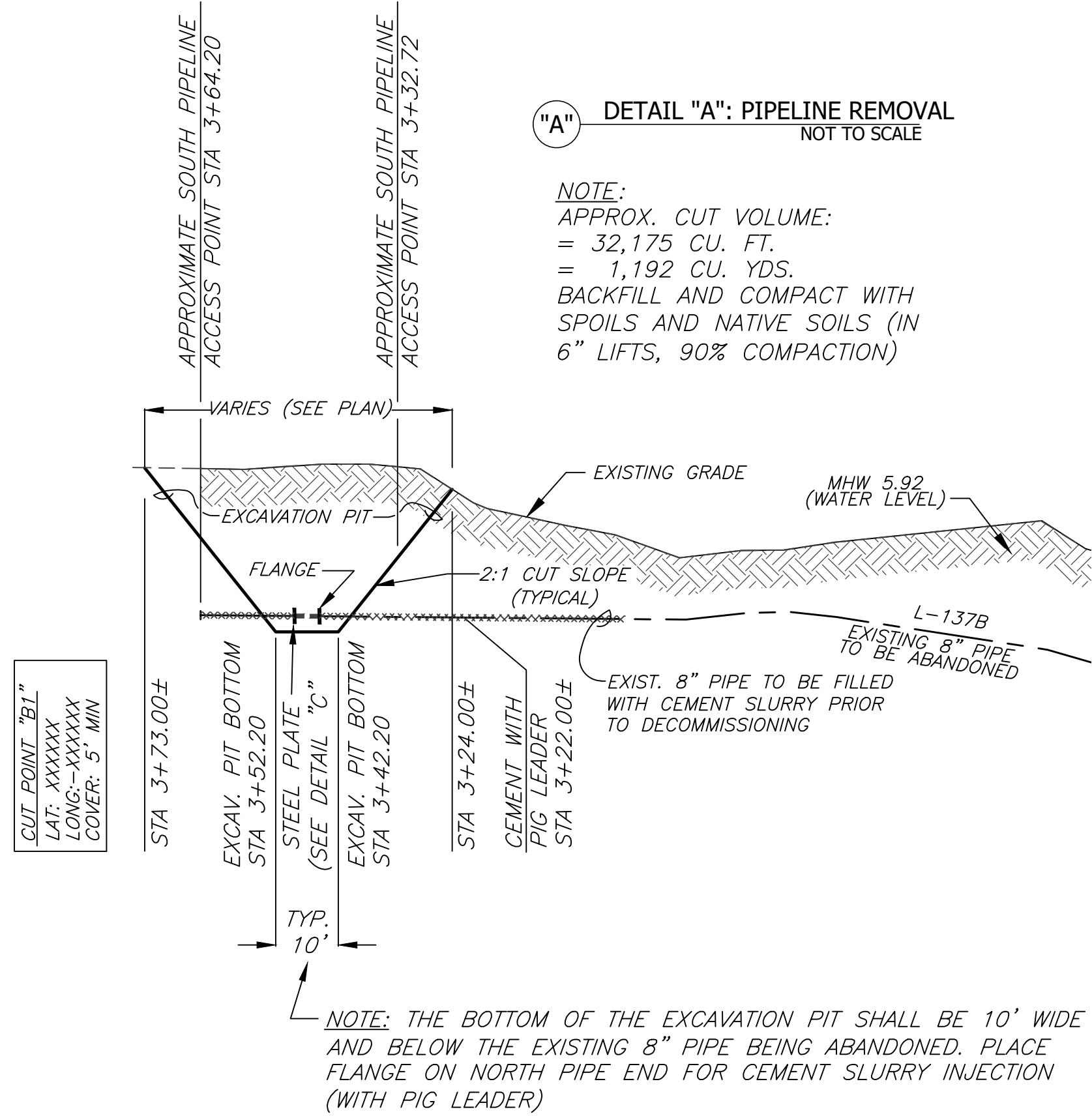
REVISIONS:		DATE:	DESCRIPTION:	DRAWN:	CHECKED:	APPROVED:
No.	1	01/31/19	PRELIMINARY - MISC. REVISION	TRC	SA	
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3	05/17/19	REPLACED ROCK LEVEE WITH CONCRETE MATS	CM	CM	4EO	
4	06/13/19	UPDATE PERMANENT & TEMPORARY IMPACT AREAS	CM	CM	4EO	
5	07/15/19	UPDATE CONCRETE DESIGN	CR	CR	4EO	
6	10/16/19	REVISIONS TO IMPACT AREAS AND COVER SHEET	CMF	CMF	4EO	

DRAWING NO. 1018-08

SHEET NAME: PLAN AND PROFILE

Sheet No. D-2

3 OF 4



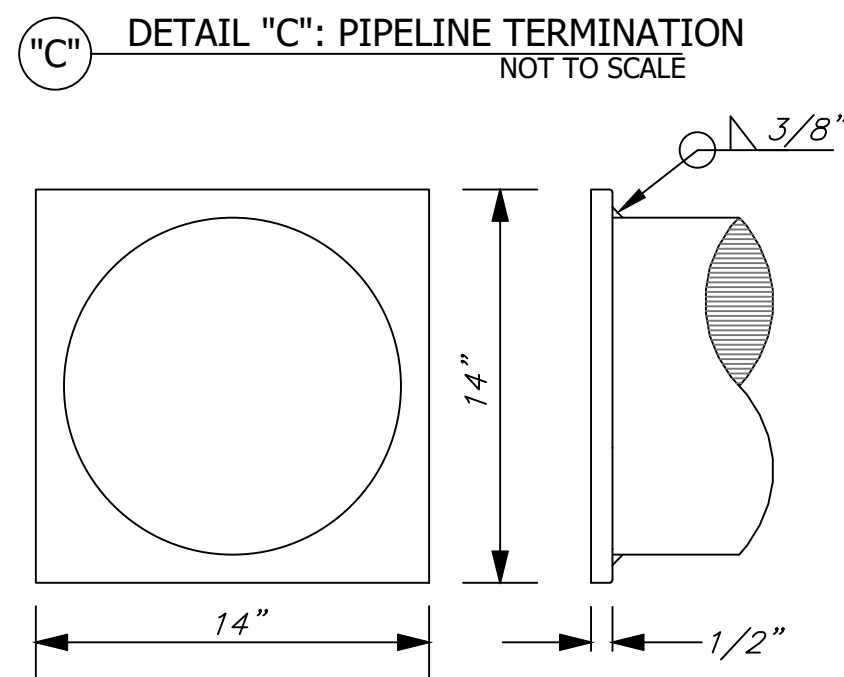
GENERAL NOTES:

1): ACTUAL CUT POINT TO BE DETERMINED IN FIELD AT TIME OF DECOMMISSIONING BY CONTRACTOR'S PROJECT MANAGER OR PG&E PROJECT ENGINEER. LOCATION OF FINAL CUT POINT TO BE DETERMINED BY DEPTH OF COVER (MINIMUM 5' OF COVER) AND AS CLOSE THE SHORELINE AS POSSIBLE WITHOUT DISTURBING SHORELINE HABITAT RESOURCES.

2): TOPOGRAPHIC SURVEY WAS MERGED WITH BATHYMETRIC SURVEY CONDUCTED BY eTRAC INC.

3): SURVEY DATA:

BENCHMARK: LVO643
DATUM: NAVD88
ELEVATION: 9.09 FT
SURVEY DATE: NOVEMBER 2018



1/2" A36 STEEL PLATE NOTES:

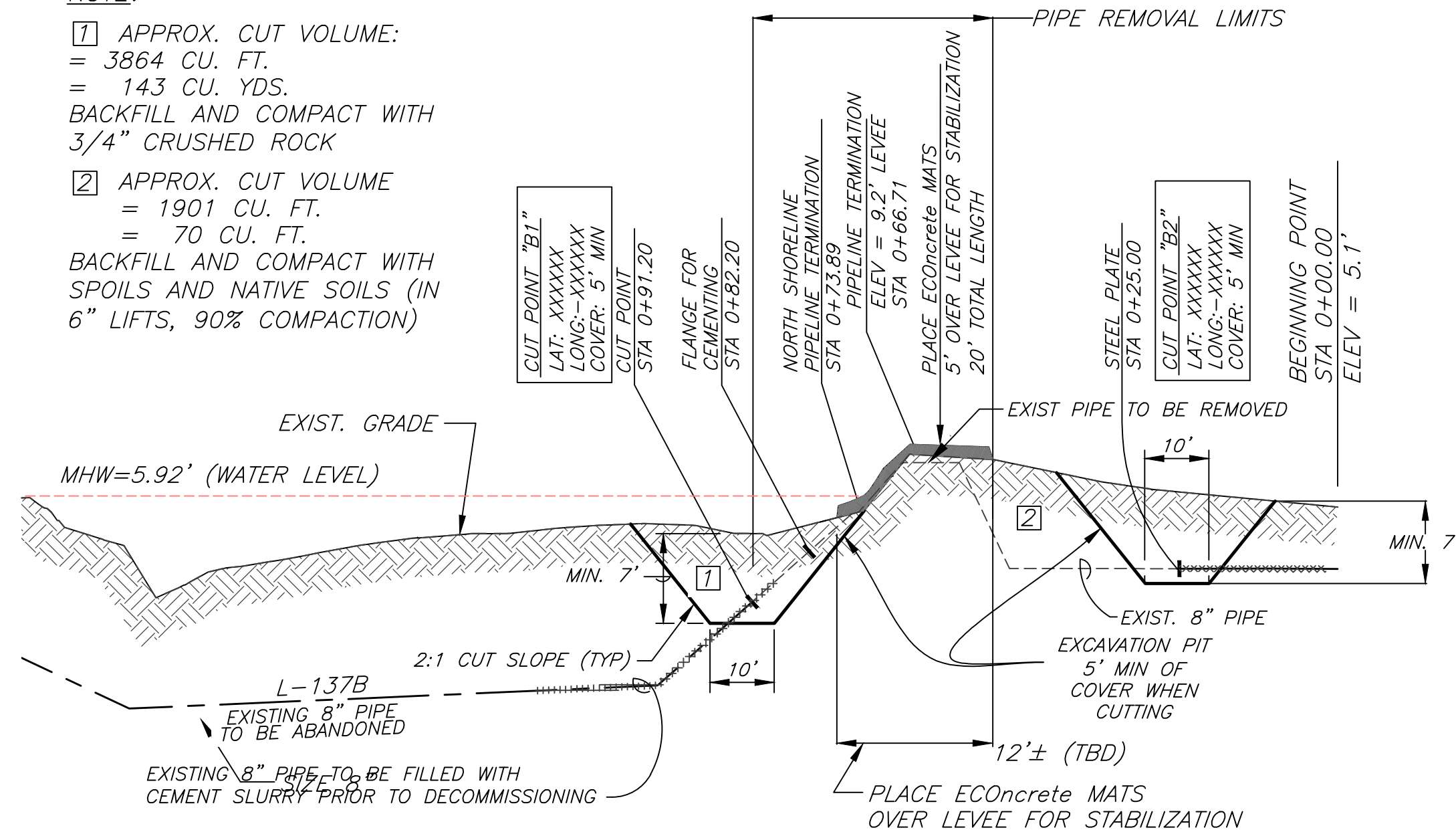
1): WELDED STEEL CAPS ON ALL TERRESTRIAL PIPE ENDS TO BE ABANDONED IN PLACE.
2): PIPE CAP MATERIALS 1/2" A36 STEEL PLATE, 14" X 14"
3): ALL WELDING E7018

"B" DETAIL "B": PIPELINE REMOVAL
NOT TO SCALE

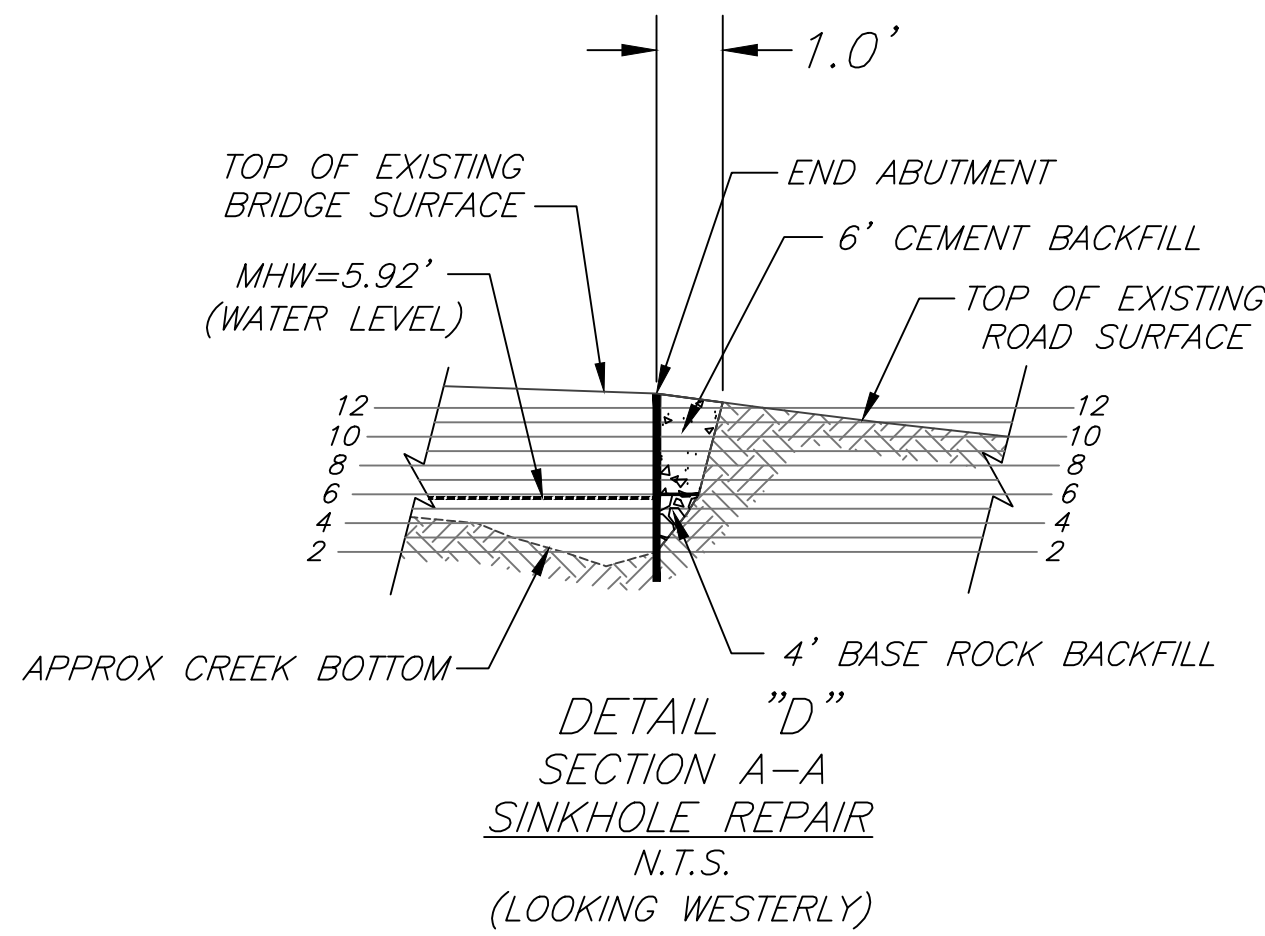
NOTE:

1) APPROX. CUT VOLUME:
= 3864 CU. FT.
= 143 CU. YDS.
BACKFILL AND COMPACT WITH
3/4" CRUSHED ROCK

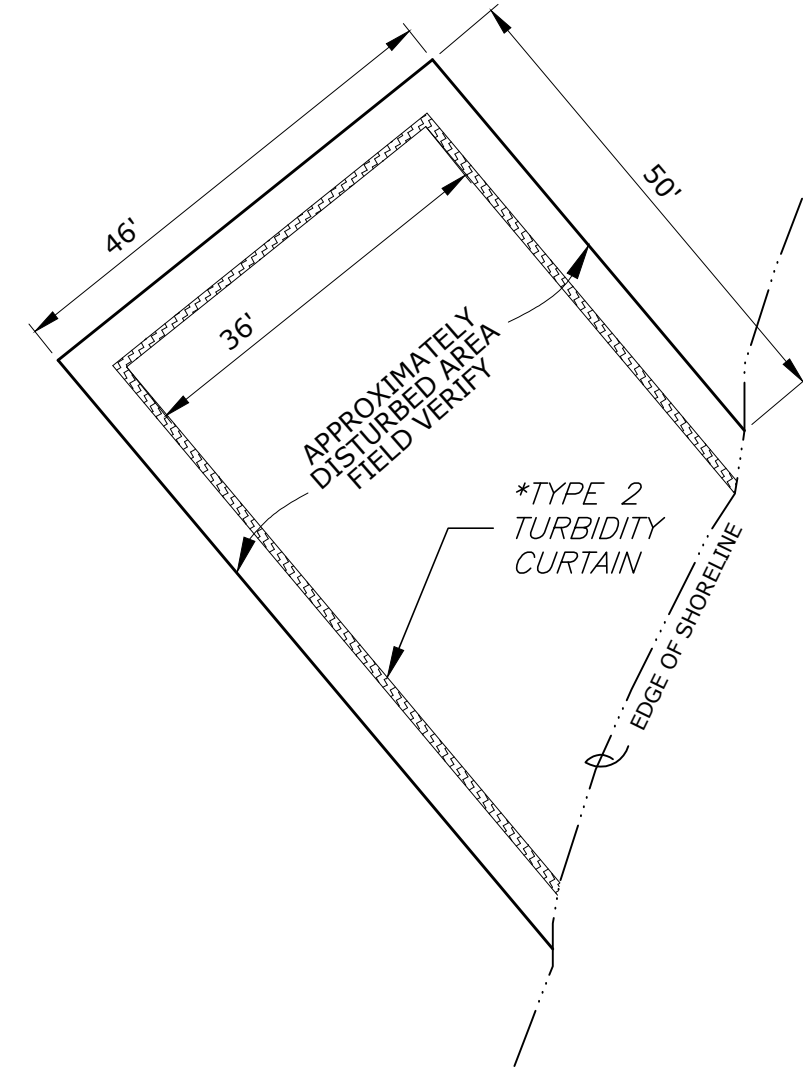
2) APPROX. CUT VOLUME
= 1901 CU. FT.
= 70 CU. FT.
BACKFILL AND COMPACT WITH
SPOILS AND NATIVE SOILS (IN
6" LIFTS, 90% COMPACTION)



SCALES: 1" = 20' (HORIZ)
1" = 10' (VERT)



"E" DETAIL "E": TURBIDITY CURTAINS
NOT TO SCALE



NOTE:

*TYPE 2 DOT TURBIDITY CURTAIN WITH PERMEABLE SKIRT, FURLING LINES AND UNIVERSAL ALUMINUM CONNECTORS.

- TURBIDITY WILL BE MONITORED AND TURBIDITY CURTAINS WILL ONLY BE USED IF REQUIRED TO MAINTAIN TURBIDITY LEVELS BELOW PERMITTED THRESHOLDS.

REVISIONS:		DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
No.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED	
1	01/31/19	PRELIMINARY - MISC. REVISION	TBC	SA		
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6	10/16/19	REVISIONS TO IMPACT AREAS AND COVER SHEET	CMF	4EO		

DRAWING NO.

1018-08

SHEET NAME:

MISC DETAILS & NOTES

Sheet No.

D-3