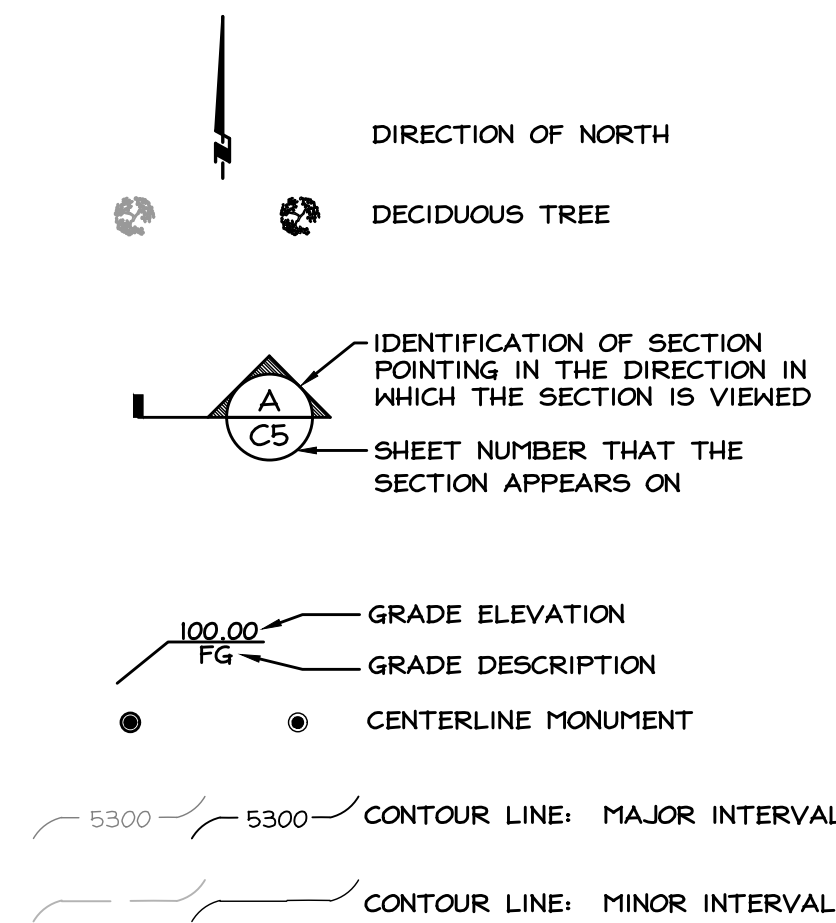




**SYMBOLS**

**EXISTING NEW**



**ABBREVIATIONS**

AASHTO.....AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	AB.....AGGREGATE BASE	AC.....ASPHALT CONCRETE	ADA.....AMERICANS WITH DISABILITIES ACT OF 1990	ADT.....AVERAGE DAILY TRAFFIC	ALT.....ALTITUDE	ANSI.....AMERICAN NATIONAL STANDARDS INSTITUTE	APN.....ASSESSOR'S PARCEL NUMBER	APPROX.....APPROXIMATELY	APWA.....AMERICAN PUBLIC WORKS ASSOCIATION	ARV.....AIR RELEASE VALVE	ASCE.....AMERICAN SOCIETY OF CIVIL ENGINEERS	ASTM.....AMERICAN SOCIETY OF TESTING AND MATERIALS	AT.....AT	M.....METER	MAX.....MAXIMUM	MGD.....MILLION GALLONS PER DAY	MH.....MANHOLE	MI.....MILE	MIN.....MINIMUM	MISC.....MISCELLANEOUS	MIX.....MIXED	MPH.....MILES PER HOUR	MUTCD.....MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES	N.....NORTH	NAC.....NEVADA ADMINISTRATIVE CODE	NDFP.....NEVADA DIVISION OF ENVIRONMENTAL PROTECTION	NDOT.....NEVADA DEPARTMENT OF TRANSPORTATION	NE.....NORTHEAST	NEC.....NATIONAL ELECTRIC CODE	NFIP.....NATIONAL FLOOD INSURANCE PROGRAM	NSF.....NATIONAL SANITATION FOUNDATION	NO.....NUMBER	NOAA.....NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NOI.....NOTICE OF INTENT	NRCS.....NATIONAL RESOURCE CONSERVATION SERVICE	NRS.....NEVADA REVISED STATUTES	NTS.....NOT TO SCALE	NW.....NORTHWEST	NWS.....NATIONAL WEATHER SERVICE	OC.....ON CENTER	OD.....OUTER DIAMETER	OSHA.....OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970	O/H.....OVERHEAD	±.....PLUS OR MINUS	P.....POWER	PC.....POINT OF CURVATURE	PADDL.....PADDL	PE.....PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NEVADA	PE.....POLY ETHYLENE	PEDX.....PEDESTRIAN CROSSING	PK.....PARKING	P.....PERCENT	P/L.....PROPERTY LINE	PMF.....PROBABLE MAXIMUM FLOOD	PNT.....POINT	PM.....PAINT MARK	PO.....PUSH ON	PSI.....POUNDS PER SQUARE INCH	PT.....POINT OF TANGENCY	PUE.....PUBLIC UTILITY EASEMENT	PVC.....POLYVINYL CHLORIDE	R.....RADIUS	R.....ROCK	R.....RISER	RB.....RIVER BED	RCBC.....REINFORCED CONCRETE BOXED CULVERT	RCF.....REINFORCED CONCRETE PIPE	ROW.....RIGHT OF WAY	RTC.....REGIONAL TRANSPORTATION COMMISSION OF DOUGLAS COUNTY	S.....SIGN	S.....SLOPE	S.....SOUTH	SD.....SURFACE AREA DISTURBANCE	SD.....STORM DRAIN	SDMH.....STORM DRAIN MANHOLE	SDR.....STANDARD DIMENSION RATIO	SE.....SOUTHEAST	SET.....SET MONUMENT, CORNER OR CONTROL POINT	SF.....SQUARE FOOT (FEET)	SPP.....STRUCTURAL PLATE PIPE	SPPA.....STRUCTURAL PLATE PIPE ARCH SERVICE	SS.....SANITARY SENER	SSMH.....SANITARY SENER MANHOLE	ST.....STREET	STA.....STATION	STB.....STUB	STD.....STANDARD	SW.....SOUTHWEST	S/W.....SIDEWALK	SWPPP.....STORMWATER POLLUTION PREVENTION PLAN	T.....TELEPHONE	TBC.....TOP BACK OF CURB	TC.....TOP OF CURB	TRB.....TRANSPORTATION RESEARCH BOARD	TOE.....TOE OF SLOPE	TOP.....TOP OF SLOPE	TOW.....TOP OF WALL	TR.....TREE	TRF.....TRAFFIC CONTROL	TV.....TELEVISION	TYP.....TYPICAL	U.....UTILITY	UBC.....UNIFORM BUILDING CODE	UG.....UNDERGROUND	UMC.....UNIFORM MECHANICAL CODE	UNO.....UNLESS NOTED OTHERWISE	UPC.....UNIFORM PLUMBING CODE	USACE.....UNITED STATES ARMY CORPS OF ENGINEERS	USBR.....UNITED STATES BUREAU OF RECLAMATION	USGS.....UNITED STATES GEOLOGICAL SURVEY	V.....VALVE	VA.....VAULT	VC.....VERTICAL CURVE	VG.....VALLEY GUTTER	VERT.....VERTICAL	VPC.....VERTICAL POINT OF CURVATURE	VPT.....VERTICAL POINT OF TANGENCY	W.....WEST	W.....WITH	WEF.....WATER ENVIRONMENT FEDERATION	WL.....WALL	WK.....WALKWAY	WV.....WATER GATE VALVE	Y.....YEAR
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**NOTES**

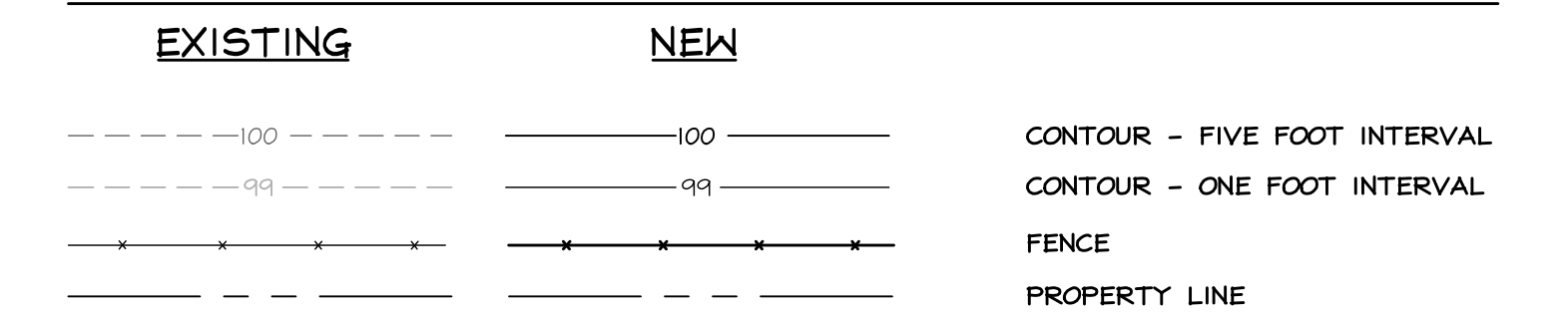
**GENERAL**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL SAFETY DURING CONSTRUCTION AND ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING UTILITIES AND/OR STRUCTURES ADJACENT TO IMPROVEMENTS DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND SHORING PROCEDURES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER OF ANY DISCREPANCIES IN THE IMPROVEMENT PLANS.
5. CONTRACTOR SHALL OBTAIN A SWPPP AND NOI WITH THE STATE OF NEVADA, PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.

**SITE & GRADING**

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE OSHA REQUIREMENTS FOR EXCAVATION, THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 2012 EDITION, DOUGLAS COUNTY STANDARDS, AND SPECIAL REQUIREMENTS OF THE PERMIT. VIOLATIONS WILL RESULT IN THE STOPPAGE OF ALL WORK UNTIL THE VIOLATION IS CORRECTED.
2. NO WORK SHALL BE STARTED WITHOUT FIRST NOTIFYING THE DISTRICT MANAGER, ENGINEER AND AFFECTED PROPERTY OWNER(S) AT LEAST 2 WORKING DAYS BEFORE WORK IS COMMENCED.
3. SLOPES SHALL BE NO STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.
4. FILLS SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION".
5. FILL AREAS SHALL BE CLEARED OF VEGETATION AND DEBRIS, SCARIFIED, AND BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO THE PLACING OF FILL.
6. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE USED TO PREVENT EXCESSIVE PONDING AND PROTECT ADJOINING PROPERTIES DURING CONSTRUCTION OF IMPROVEMENTS.
7. DUST SHALL BE CONTROLLED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AND IN ACCORDANCE WITH THE AIR QUALITY PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION WHEN REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE PERMITS WHEN REQUIRED.
8. ALL STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS. ALL OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION WHEN REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE PERMITS WHEN REQUIRED.
9. THE OWNER'S ENGINEER OR SURVEYOR SHALL SET GRADE STAKES FOR ALL GRADING.
10. THE ENGINEER SHALL APPROVE ALL GRADING INCLUDING COMPACTION REQUIREMENTS AND THE STABILITY OF SLOPES CREATED, OR REMAINING.
11. IN THE EVENT OF CHANGES ARISING DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER WHO WILL DETERMINE AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR REVIEW AND APPROVAL BY THE OWNER. NO CHANGES IN THE DESIGN WILL BE PERMITTED UNLESS WRITTEN APPROVAL IS GIVEN BY THE ENGINEER.
12. EXISTING BANKS SHALL BE RE-GRADED AT 3:1 UNLESS OTHERWISE NOTED.
13. ROCK TOE PROTECTION SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED DETAIL IN AREAS AS SHOWN ON SITE SPECIFIC PLAN. ROCK TOE PROTECTION SHALL BE PLACED WITHIN 5 DAYS OF FINAL BANK GRADING.
14. ALL DISTURBED AREAS SHALL BE RE-SEED BY OWNER WITH NATIVE SEED MIX. RE-SEEDING SHALL BE FURNISHED AND INSTALLED BY OWNER.
15. OWNER SHALL FURNISH AND INSTALL BIO-ENGINEERING TREATMENTS. CONTRACTOR SHALL BE RESPONSIBLE WITH ASSISTING OWNER BY EXCAVATING TO ALLOW FOR INSTALLATION AND BACKFILLING ONCE TREATMENT IS INSTALLED.
16. PROTECT EXISTING TREES AND RIPARIAN VEGETATION TO EXTENT POSSIBLE THROUGHOUT CONSTRUCTION. REMOVAL OF 6" DIAMETER TREES OR LARGER PROHIBITED WITHOUT OWNER APPROVAL UNLESS OTHERWISE NOTED.
17. NATIVE MATERIAL GENERATED FROM CHANNEL CLEARING OPERATIONS SHALL BE USED TO SHAPE FAILING BANKS TO CONTOURS AS SHOWN. EXCAVATE ONLY ENOUGH MATERIAL NECESSARY TO CONSTRUCT FAILING BANKS.
18. WORK SHALL BE PERFORMED WITHIN THE MEAN-HIGH WATER LEVEL WHICH IS COMMONLY REFERRED TO AS THE "CHANNEL BED". THIS INCLUDES STOCKPILING OF MATERIAL. CONTRACTOR SHALL ENSURE DE-WATERING PLAN ALLOWS FOR PROPER PROTECTION OF STOCKPILES AND EQUIPMENT.
19. RIVERINE ENVIRONMENTS ARE DYNAMIC SYSTEMS & SUBJECT TO CHANGE. THESE PLANS ARE BASED UPON A TOPOGRAPHIC SURVEY PERFORMED IN JUNE, 2010. PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL INVESTIGATE THE SITE & SATISFY HIMSELF THAT CURRENT CONDITIONS GENERALLY MATCH THE PLANS. IF CURRENT SITE CONDITIONS ARE SIGNIFICANTLY DIFFERENT TO WARRANT A CHANGE IN CONTRACT PRICE OR SCHEDULE, THE CHANGE ORDER SHALL BE AGREED TO PRIOR TO COMMENCING CONSTRUCTION.
20. REMOVE & REPLACE EXISTING FENCES AS NECESSARY TO FACILITATE CONSTRUCTION. COORDINATE WITH OWNER PRIOR TO CONSTRUCTION. TEMPORARY FENCING MAY BE REQUIRED.

**LINE TYPES**



**BASIS OF COORDINATES**

HORIZONTAL: NAD 83, NSPC WEST ZONE PER OPUS AT ROA NO. 103

**DATUM**

VERTICAL: NAVD83 PER OPUS AT ROA NO. 103

SITE BENCHMARK SHOWN ON SHEET C1.

ELEVATION: 4663.64

Y:\Clients\116117021\2020-03\CAD\Engineering\Improvement\Plans\1702-003\_C02.dwg 10/28/2020 12:05:26 PM James Turner

NO.	DATE	REVISION BLOCK	BY

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**2020 CARSON RIVER BANK STABILIZATION PROJECTS  
CARSON VALLEY CONSERVATION DISTRICT**

**NOTES, LEGEND &  
ABBREVIATION**

DRAWN: JT  
ENGINEER: NRG  
SCALE:  
DATE: 10.28.2020

JOB: 1702-003  
DRAWING: SEE PLOT STAMP  
SHEET: C2  
OF: 12 SHEETS



BID SET 10.28.2020

# NOT A PART OF CONTRACT

## NOTE

- DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.

## LEGEND

- ORDINARY HIGH WATER MARK
- ROCK TOE PROTECTION, ROCK REFUSAL TRENCH
- LOG VEIN SEE DETAIL ON SHEET CII

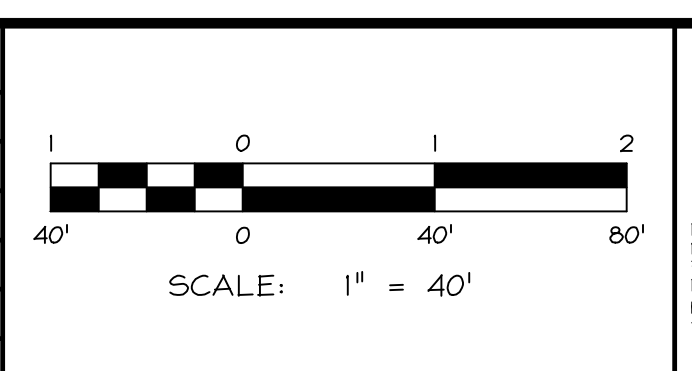
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NO.	DATE	REVISION BLOCK	BY

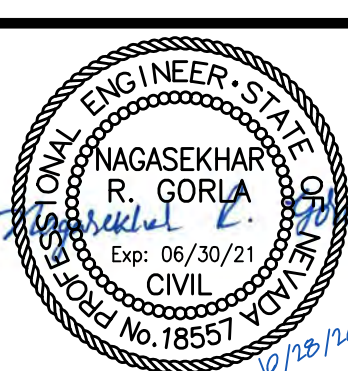


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**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
 CARSON VALLEY CONSERVATION DISTRICT

**RUNNING RIVER RANCH**  
 SITE PLAN



DRAWN: JT	JOB: 1702-003
ENGINEER: NRG	DRAWING: SEE PLOT STAMP
SCALE: 1" = 40'	SHEET: C3
DATE: 10.28.2020	OF: 12 SHEETS

BID SET 10.28.2020


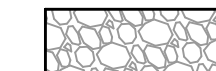

# NOT A PART OF CONTRACT



**NOTE**

- DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.

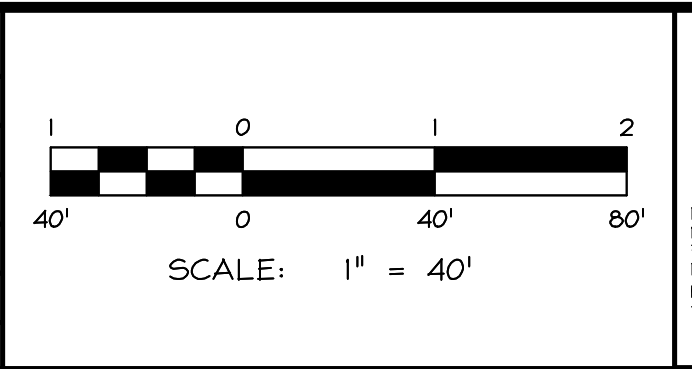
**LEGEND**

-  ORDINARY HIGH WATER MARK
-  ROCK TOE PROTECTION, ROCK REFUSAL TRENCH
-  LOG VEIN SEE DETAIL ON SHEET CII

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NO.	DATE	REVISION BLOCK	BY



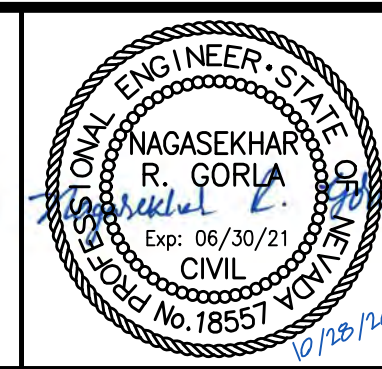
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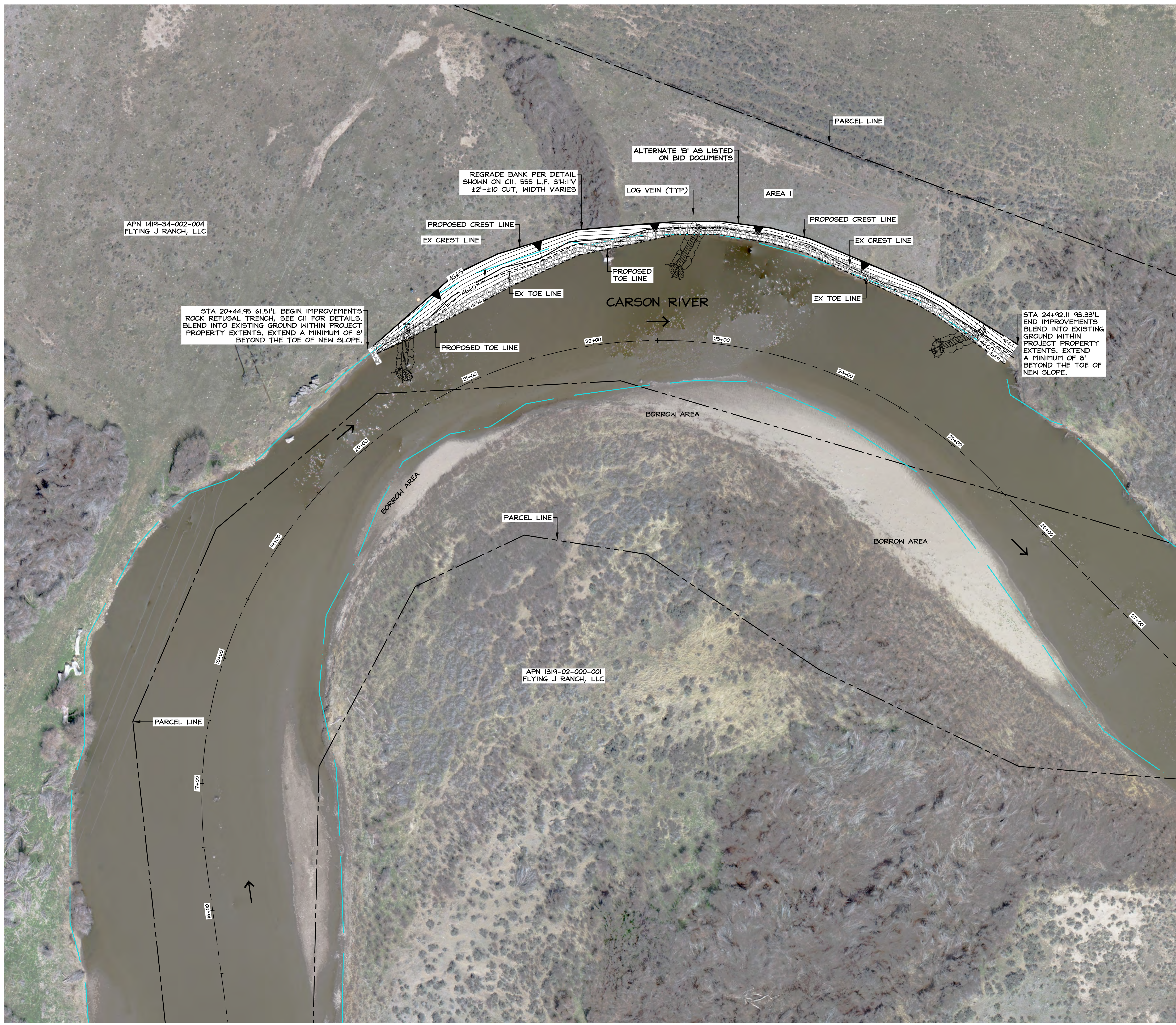
**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
 CARSON VALLEY CONSERVATION DISTRICT

**FLYING J RANCH**  
 SITE PLAN - LOCATION 1



DRAWN: JT	JOB: 1702-003
ENGINEER: NRG	DRAWING: SEE PLOT STAMP
SCALE: 1" = 40'	SHEET: C4
DATE: 10.28.2020	OF: 12 SHEETS

BID SET 10.28.2020



SCALE: 1" = 40'

**NOTE**

1. DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.

**LEGEND**

- ORDINARY HIGH WATER MARK
- ROCK TOE PROTECTION, ROCK REFUSAL TRENCH
- LOG VEIN SEE DETAIL ON SHEET CII

**ESTIMATED QUANTITIES**

**AREA 1**  
 EARTH WORK: 285 CY CUT, 279 CY FILL  
 RIP-RAP TOE PROTECTION: 4,049 S.F. 2.5' HIGH  
 LOG VEINS OR APPROVED EQUAL: 3 EACH

NOTE: NO GUARANTEE IS MADE CONCERNING THE ACCURACY OF THE ESTIMATED QUANTITIES. THE CONTRACTOR SHALL DETERMINE ACTUAL QUANTITIES OF WORK ASSOCIATED WITH THE PROJECT.

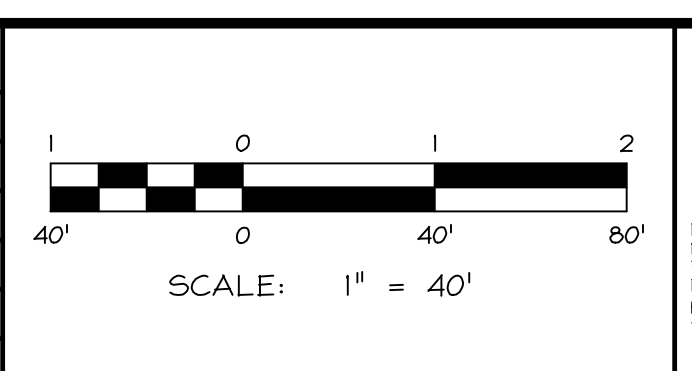
**CONSTRUCTION NOTE**

1. REGRADE FAILED RIVER BANKS BY CUTTING FROM PROPOSED CREST LINE AT 3H:1V. USE MATERIAL GENERATED FROM THE CUT AS FILL IN CONJUNCTION WITH ADDITIONAL FILL MATERIAL FROM THE BORROW AREAS AS NECESSARY. SEE RIVER BANK REGRADE DETAIL ON CII.
2. INSTALL RIP-RAP TOE PROTECTION PER DETAIL ON SHEET CII.
3. INSTALL LOG VEIN (OR APPROVED ALTERNATE) APPROX. 45' FROM TOP OF NEW BANK AND ROTATE UPSTREAM ±30°. SPACE ±150' TO ±175'. EXTEND LOG VEIN A MINIMUM OF 10' BEYOND TOE OF NEW SLOPE. SEE SHEET CII FOR DETAIL.

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 F. 775.782.7084

**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
 CARSON VALLEY CONSERVATION DISTRICT

**FLYING J RANCH**  
 SITE PLAN - LOCATION 2

**Professional Engineer Seal:**  
 R. GORLA  
 CIVIL ENGINEER  
 No. 18551  
 Exp. 06/30/21

DRAWN: JT	JOB: 1702-003
ENGINEER: NRG	DRAWING: SEE PLOT STAMP
SCALE: 1" = 40'	SHEET: C5
DATE: 10.28.2020	OF: 12 SHEETS

BID SET 10.28.2020

# NOT A PART OF CONTRACT



## NOTE

- DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.

## LEGEND

- ORDINARY HIGH WATER MARK
- ROCK TOE PROTECTION, ROCK REFUSAL TRENCH
- LOG VEIN SEE DETAIL ON SHEET C11

SCALE: 1" = 40'

STA 28+15.19 72.82'R  
BEGIN IMPROVEMENTS  
ROCK REFUSAL  
TRENCH. SEE C11 FOR  
DETAILS. BLEND INTO  
EXISTING GROUND  
WITHIN PROJECT  
PROPERTY EXTENTS.  
EXTEND A MINIMUM OF  
8' BEYOND THE TOE  
OF NEW SLOPE.

STA 34+86.33 97.80'R END  
IMPROVEMENTS. BLEND INTO  
EXISTING GROUND WITHIN  
PROJECT PROPERTY EXTENTS.  
EXTEND A MINIMUM OF 8'  
BEYOND THE TOE OF NEW SLOPE.

REGRADE BANK PER DETAIL  
SHOWN ON C11. 8:13 L.F. 3'H:1'V  
±2'-±10' CUT WIDTH VARIES

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**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
 CARSON VALLEY CONSERVATION DISTRICT

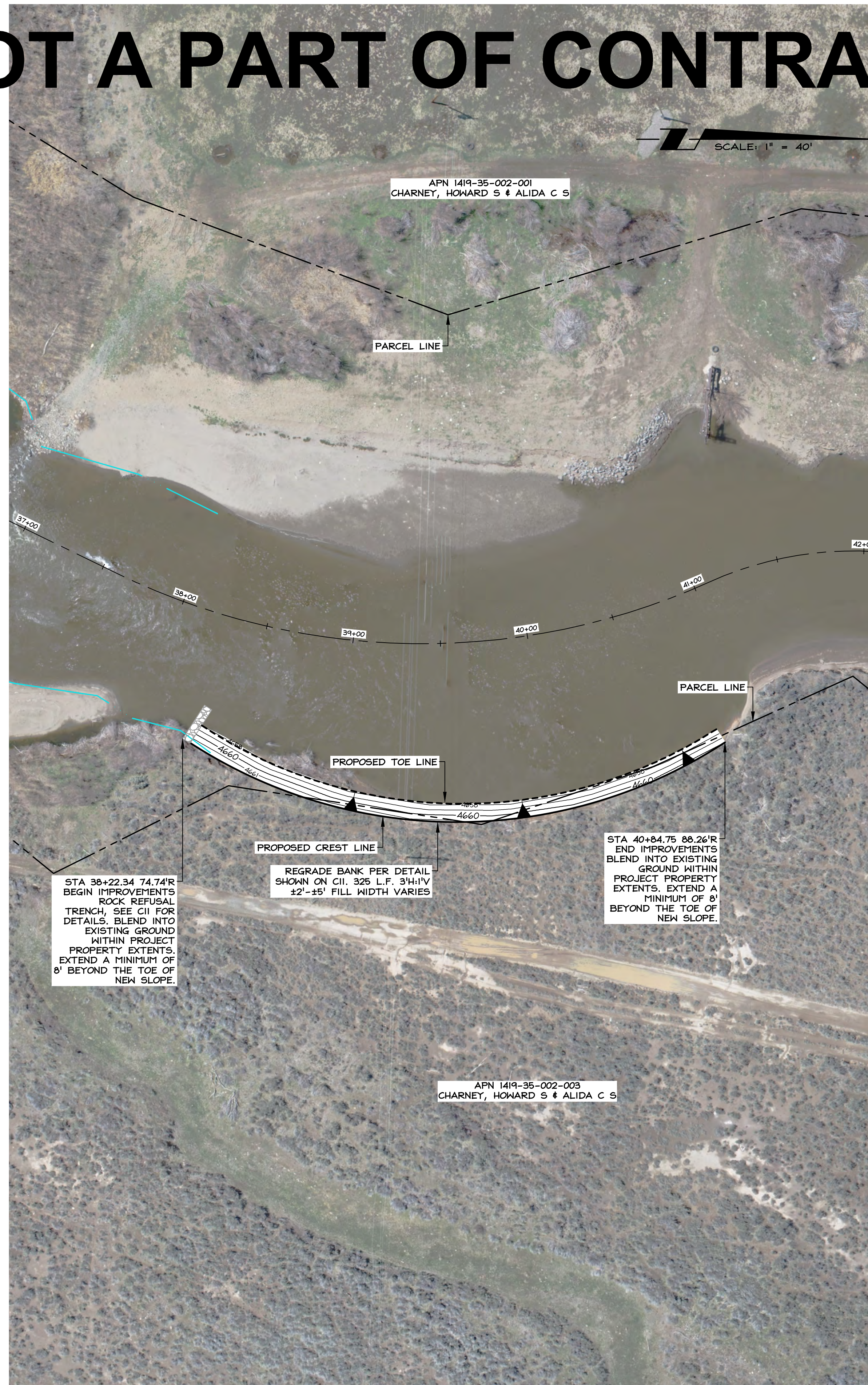
**FLYING J RANCH**  
 SITE PLAN - LOCATION 3

DRAWN:	JT	JOB:	1702-003
ENGINEER:	NRG	DRAWING:	SEE PLOT STAMP
SCALE:	1" = 40'	SHEET:	C6
DATE:	10.28.2020	OF: 12 SHEETS	



BID SET 10.28.2020

# NOT A PART OF CONTRACT



**NOTE**

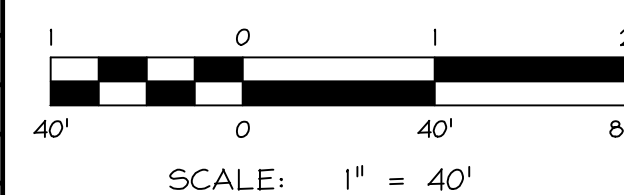
- DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.

**LEGEND**

- ORDINARY HIGH WATER MARK
- ROCK TOE PROTECTION, ROCK REFUSAL TRENCH
- LOG VEIN SEE DETAIL ON SHEET C11

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**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
 CARSON VALLEY CONSERVATION DISTRICT

**CHARNEY RANCH**  
 SITE PLAN - LOCATION 1

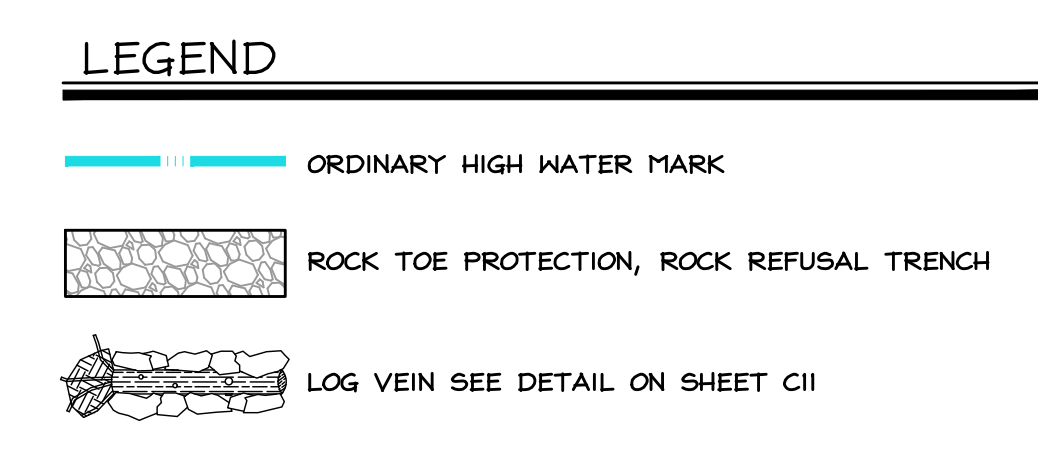
DRAWN:	JT	JOB:	1702-003
ENGINEER:	NRG	DRAWING:	SEE PLOT STAMP
SCALE:	1" = 40'	SHEET:	C7
DATE:	10.28.2020	OF: 12 SHEETS	



BID SET 10.28.2020

**NOTE**

- DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.



**ESTIMATED QUANTITIES**

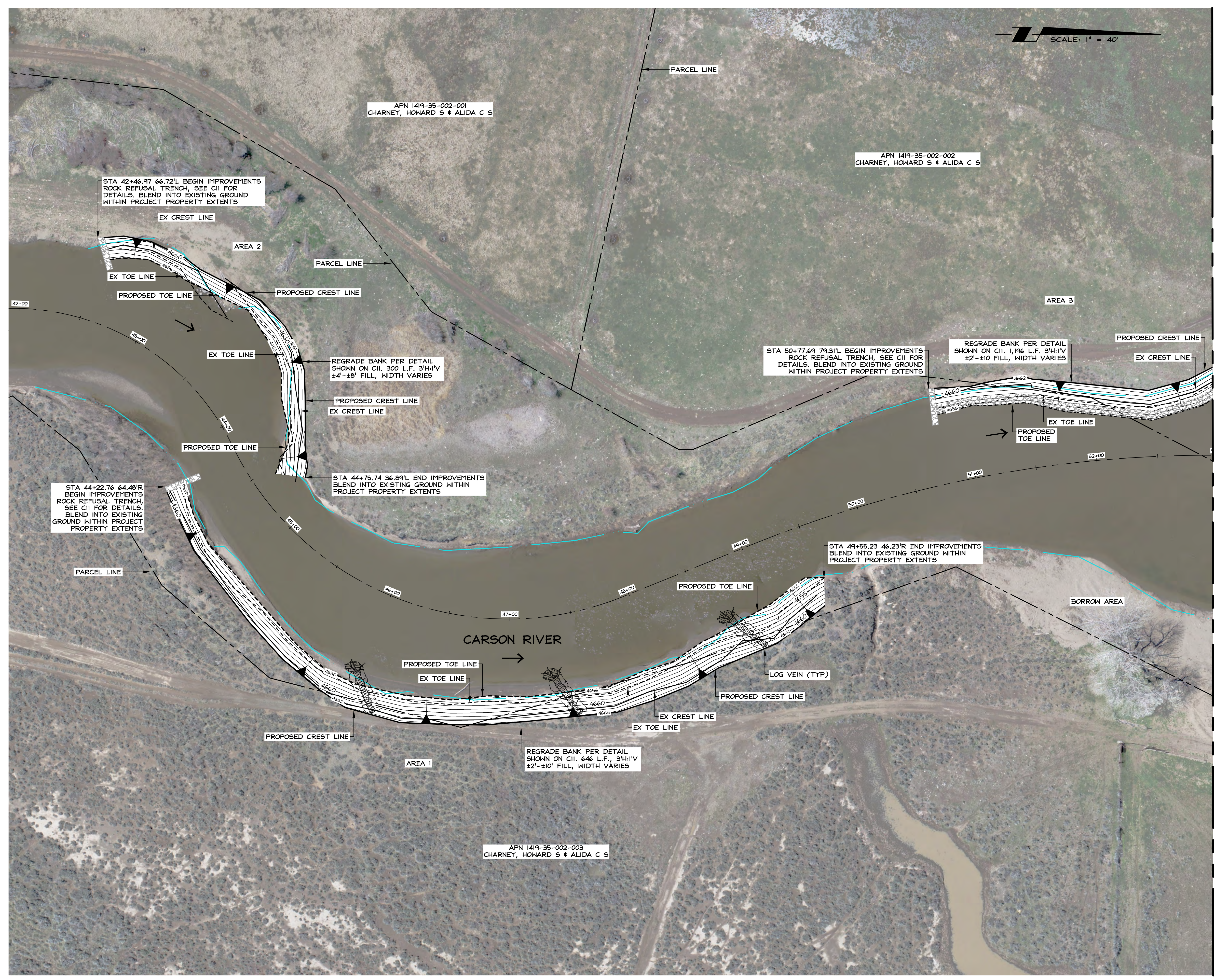
**AREA 1**  
 EARTH WORK: 212 CY CUT, 205 CY FILL  
 RIP-RAP TOE PROTECTION: NO TOE PROTECTION  
 LOG VEINS OR APPROVED EQUAL: 3 EACH

**AREA 2**  
 EARTH WORK: 88 CY CUT, 81 CY FILL  
 RIP-RAP TOE PROTECTION: NO TOE PROTECTION  
 LOG VEINS OR APPROVED EQUAL: NONE

NOTE: NO GUARANTEE IS MADE CONCERNING THE ACCURACY OF THE ESTIMATED QUANTITIES. THE CONTRACTOR SHALL DETERMINE ACTUAL QUANTITIES OF WORK ASSOCIATED WITH THE PROJECT.

**CONSTRUCTION NOTE**

- REGRADE FAILED RIVER BANKS BY CUTTING FROM PROPOSED CREST LINE AT 3H:1V. USE MATERIAL GENERATED FROM THE CUT AS FILL IN CONJUNCTION WITH ADDITIONAL FILL MATERIAL FROM THE BORROW AREAS AS NECESSARY. SEE RIVER BANK REGRADE DETAIL ON C11.
- NO TOE PROTECTION REQUIRED ON THIS SHEET.
- INSTALL LOG VEIN (OR APPROVED ALTERNATE) APPROX. 45' FROM TOP OF NEW BANK AND ROTATE UPSTREAM ±30°. SPACE ±150' TO ±175'. EXTEND LOG VEIN A MINIMUM OF 10' BEYOND TOE OF NEW SLOPE. SEE SHEET C11 FOR DETAIL.

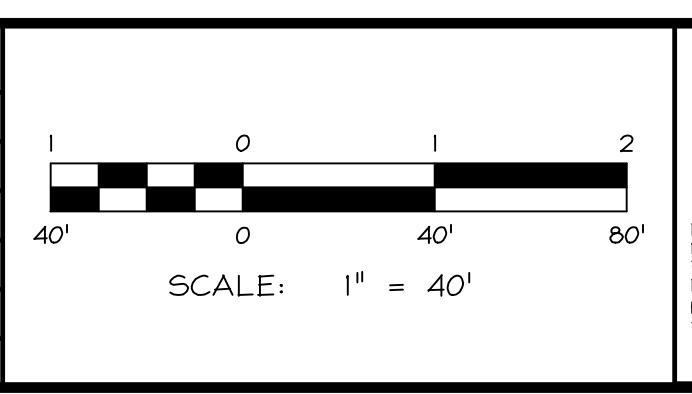


MATCH LINE - SHEET C9

I:\Clients\11618\1702\1702-003\CADD\Engineering\Improvement\Plans\1702-003\_C03.dwg 10/29/2020 3:46:46 PM Janna Turner



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**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
**CARSON VALLEY CONSERVATION DISTRICT**

**CHARNEY RANCH**  
**SITE PLAN - LOCATION 2**

**ENGINEER**  
 ANAGASEKHAR R. GORLA  
 CIVIL ENGINEER  
 No. 18551

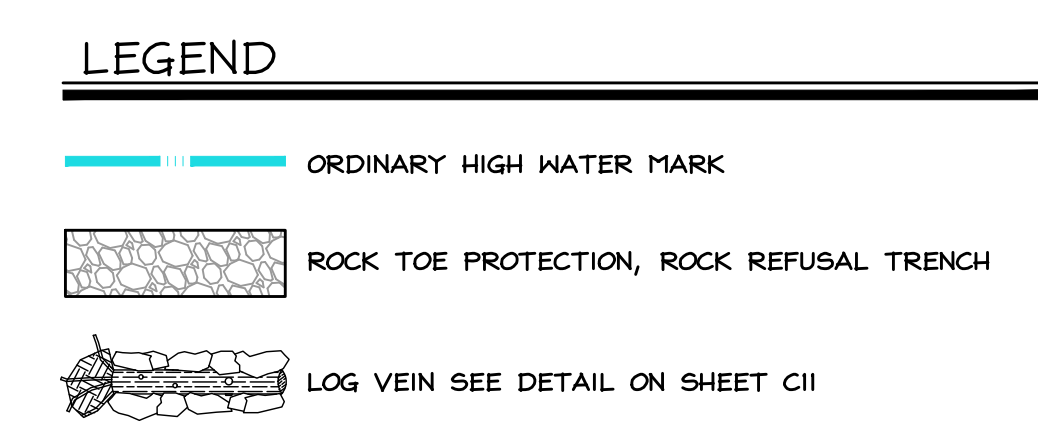
DRAWN: JT  
 ENGINEER: NRG  
 SCALE: 1" = 40'  
 DATE: 10.28.2020  
 JOB: 1702-003  
 DRAWING: SEE PLOT STAMP  
 SHEET: C8  
 OF: 12 SHEETS

BID SET 10.28.2020



**NOTE**

- DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.



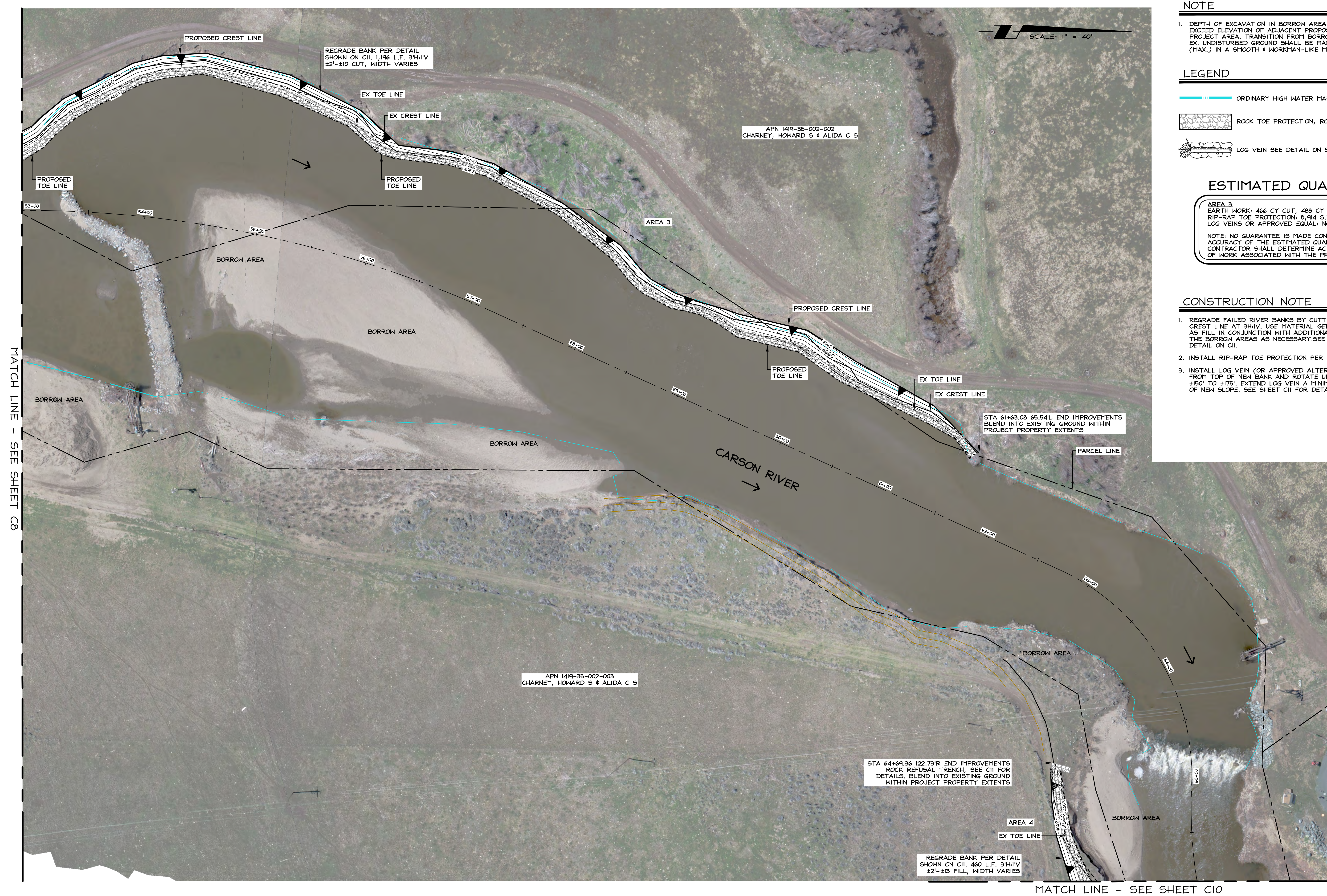
**ESTIMATED QUANTITIES**

**AREA 3**  
 EARTH WORK: 466 CY CUT, 488 CY FILL  
 RIP-RAP TOE PROTECTION: 8,914 S.F. 2.5' HIGH  
 LOG VEINS OR APPROVED EQUAL: NONE

NOTE: NO GUARANTEE IS MADE CONCERNING THE ACCURACY OF THE ESTIMATED QUANTITIES. THE CONTRACTOR SHALL DETERMINE ACTUAL QUANTITIES OF WORK ASSOCIATED WITH THE PROJECT.

**CONSTRUCTION NOTE**

- REGRADE FAILED RIVER BANKS BY CUTTING FROM PROPOSED CREST LINE AT 3H:1V. USE MATERIAL GENERATED FROM THE CUT AS FILL IN CONJUNCTION WITH ADDITIONAL FILL MATERIAL FROM THE BORROW AREAS AS NECESSARY. SEE RIVER BANK REGRADE DETAIL ON CII.
- INSTALL RIP-RAP TOE PROTECTION PER DETAIL ON SHEET CII.
- INSTALL LOG VEIN (OR APPROVED ALTERNATE) APPROX. 45' FROM TOP OF NEW BANK AND ROTATE UPSTREAM 130°. SPACE 15' TO 175'. EXTEND LOG VEIN A MINIMUM OF 10' BEYOND TOE OF NEW SLOPE. SEE SHEET CII FOR DETAIL.

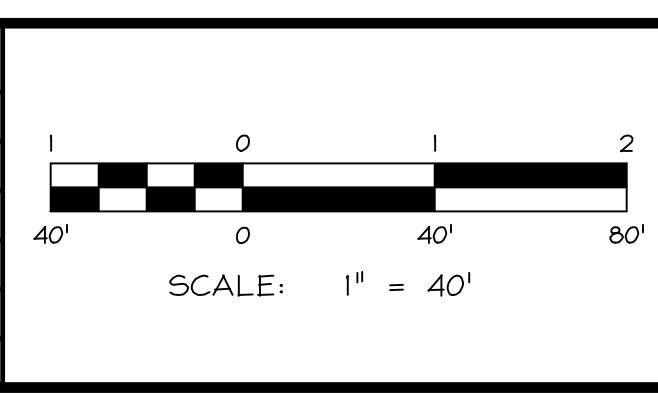


MATCH LINE - SEE SHEET C8

MATCH LINE - SEE SHEET C10



NO.	DATE	REVISION BLOCK	BY

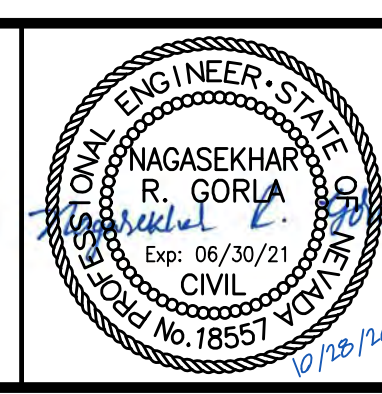


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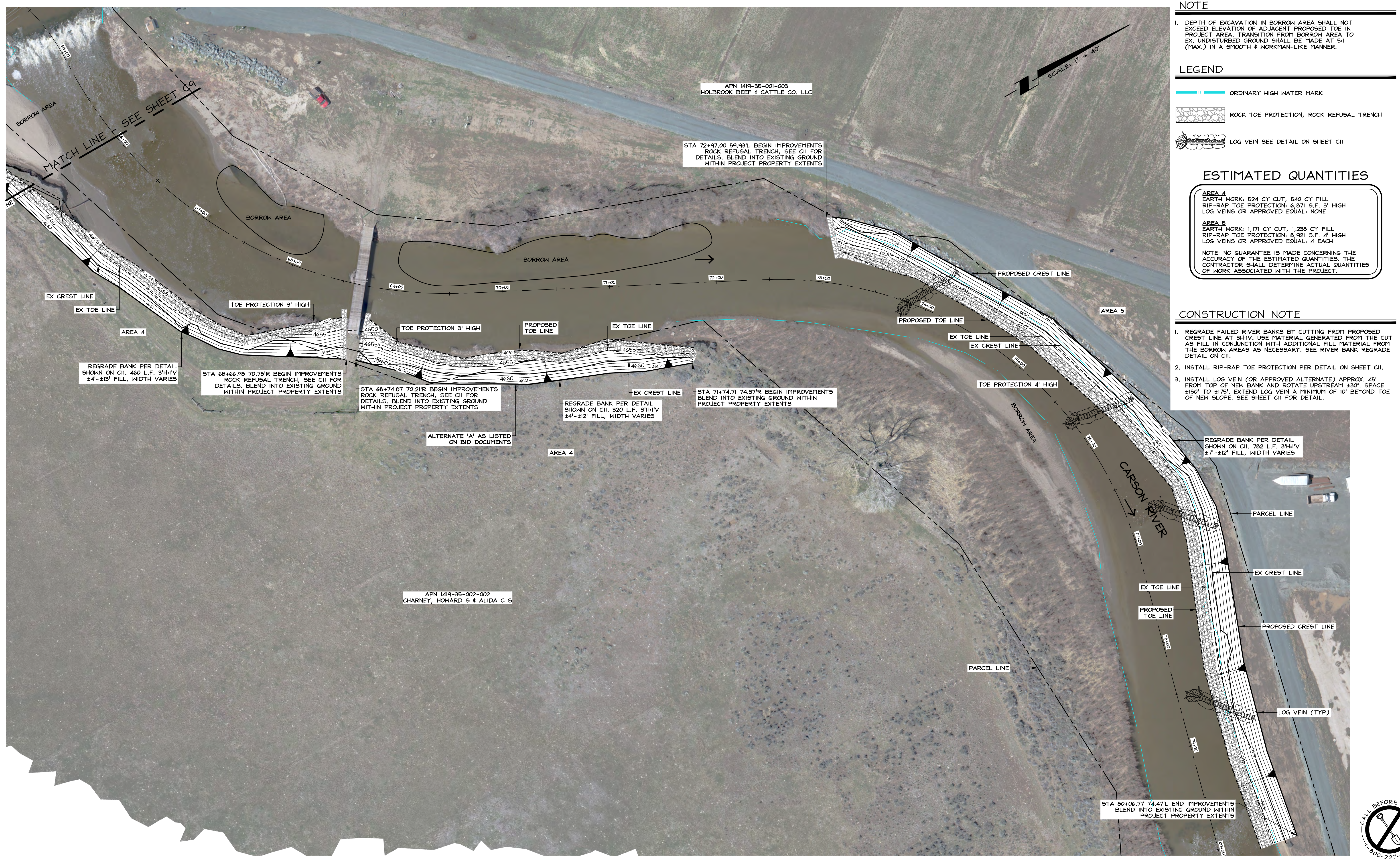
**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
 CARSON VALLEY CONSERVATION DISTRICT

**CHARNEY RANCH**  
 SITE PLAN - LOCATION 3



DRAWN: JT	JOB: 1702-003
ENGINEER: NRG	DRAWING: SEE PLOT STAMP
SCALE: 1" = 40'	SHEET: C9
DATE: 10.28.2020	OF: 12 SHEETS

BID SET 10.28.2020



**NOTE**

1. DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.

**LEGEND**

- ORDINARY HIGH WATER MARK
- ▨ ROCK TOE PROTECTION, ROCK REFUSAL TRENCH
- ▨ LOG VEIN SEE DETAIL ON SHEET C11

**ESTIMATED QUANTITIES**

**AREA 4**  
 EARTH WORK: 524 CY CUT, 540 CY FILL  
 RIP-RAP TOE PROTECTION: 6,871 S.F. 3' HIGH  
 LOG VEINS OR APPROVED EQUAL: NONE

**AREA 5**  
 EARTH WORK: 1,171 CY CUT, 1,238 CY FILL  
 RIP-RAP TOE PROTECTION: 9,321 S.F. 4' HIGH  
 LOG VEINS OR APPROVED EQUAL: 4 EACH

NOTE: NO GUARANTEE IS MADE CONCERNING THE ACCURACY OF THE ESTIMATED QUANTITIES. THE CONTRACTOR SHALL DETERMINE ACTUAL QUANTITIES OF WORK ASSOCIATED WITH THE PROJECT.

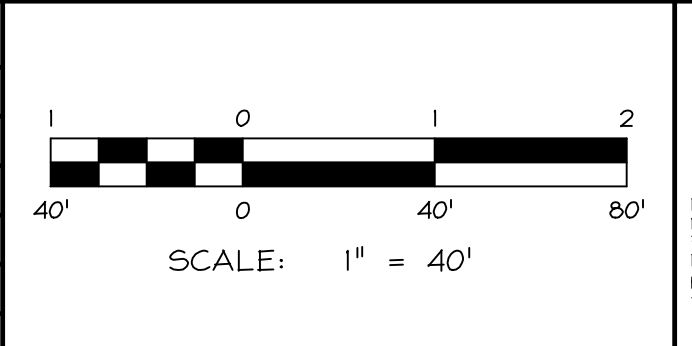
**CONSTRUCTION NOTE**

1. REGRADE FAILED RIVER BANKS BY CUTTING FROM PROPOSED CREST LINE AT 3H:1V. USE MATERIAL GENERATED FROM THE CUT AS FILL IN CONJUNCTION WITH ADDITIONAL FILL MATERIAL FROM THE BORROW AREAS AS NECESSARY. SEE RIVER BANK REGRADE DETAIL ON C11.
2. INSTALL RIP-RAP TOE PROTECTION PER DETAIL ON SHEET C11.
3. INSTALL LOG VEIN (OR APPROVED ALTERNATE) APPROX. 45' FROM TOP OF NEW BANK AND ROTATE UPSTREAM 43°. SPACE ±150' TO ±175'. EXTEND LOG VEIN A MINIMUM OF 10' BEYOND TOE OF NEW SLOPE. SEE SHEET C11 FOR DETAIL.

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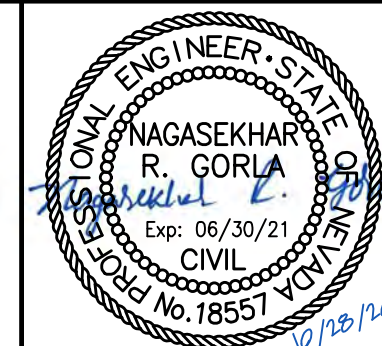
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**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
 CARSON VALLEY CONSERVATION DISTRICT

**HOLBROOK RANCH**  
**SITE PLAN**



DRAWN: JT	JOB: 1702-003
ENGINEER: NRG	DRAWING: SEE PLOT STAMP
SCALE: 1" = 40'	SHEET: C10
DATE: 10.28.2020	OF: 12 SHEETS

BID SET 10.28.2020

TABLE 200.07.04-1

Percentage by Mass Passing Sieve	Sieve Size (inches)					
	Class 150	Class 300	Class 400	Class 550	Class 700	Class 900
100	10	20	30	40	48	60
70 - 85	9	18	27	36	45	54
30 - 50	6	12	18	24	30	36
5 - 15	2	5	7	12	18	24
0	1	2	3	6	8	12
D50(1)	6	12	16	22	28	35

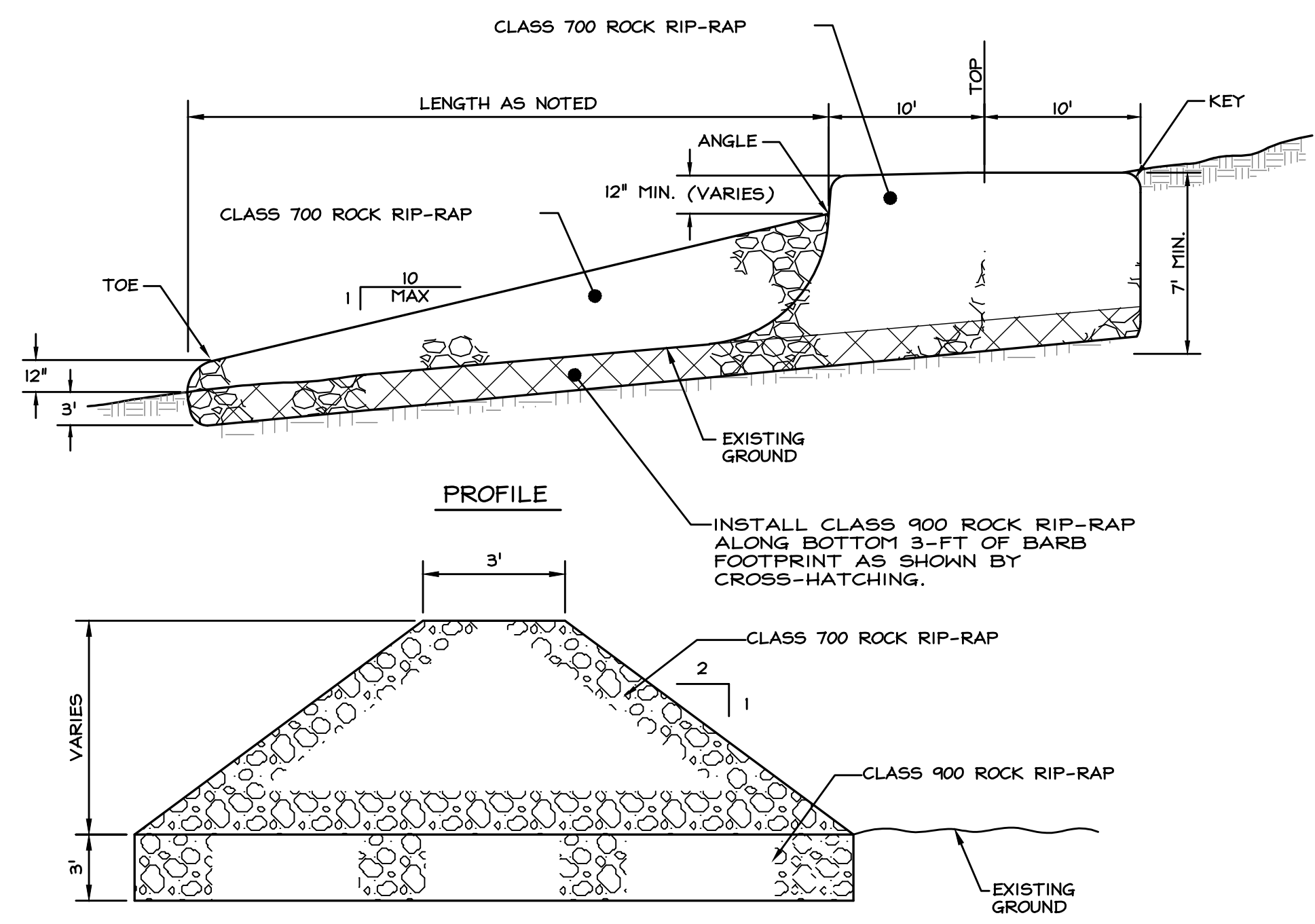
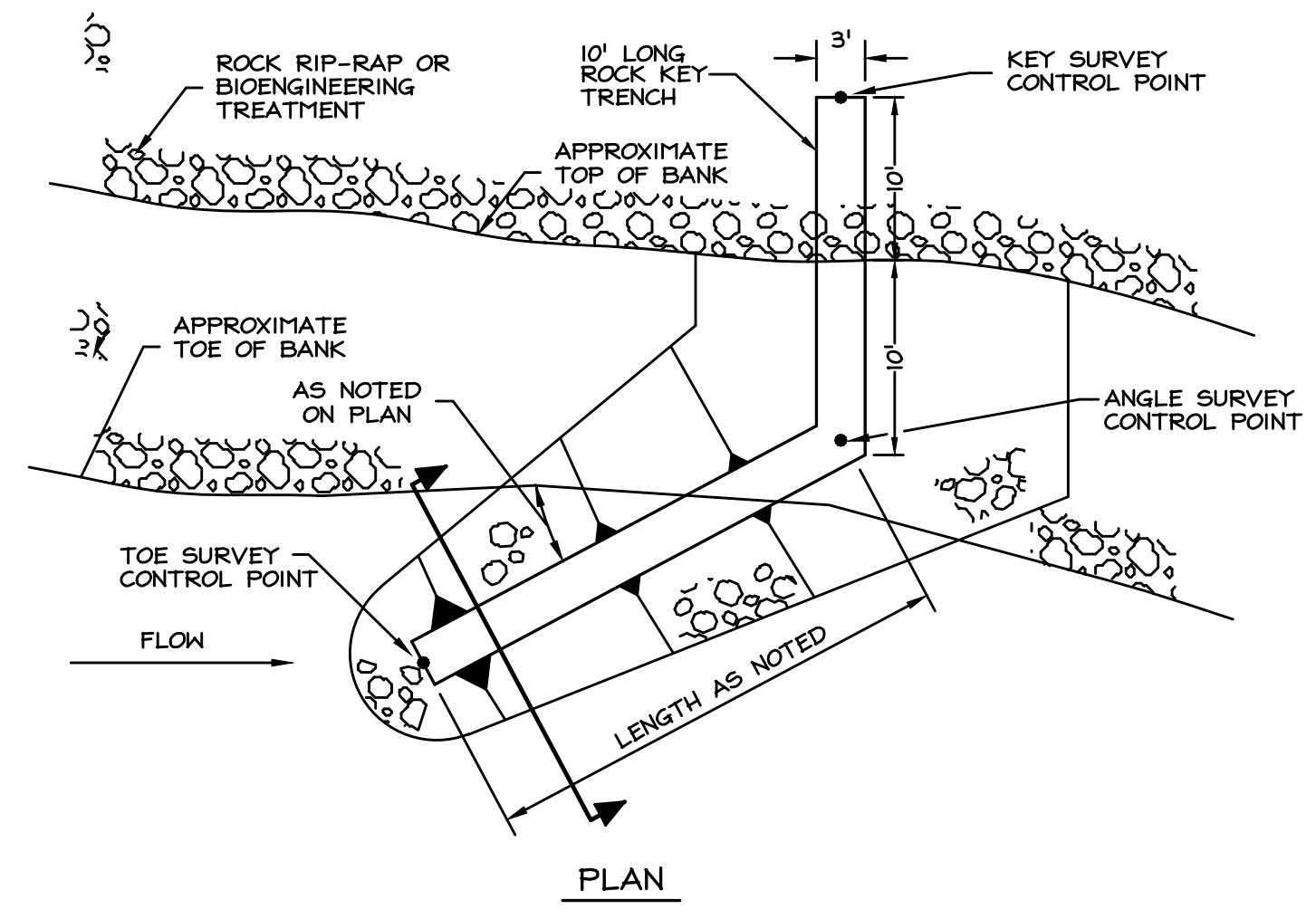
1. MEAN STONE SIZE.

Test	Test Method	Requirements
Resistance to Wear (percent)	ASTM C 535 (1)	45 Maximum
Absorption (percent)	ASTM C 127	4.2 Maximum
Apparent Specific Gravity	ASTM C 97	2.5 Minimum (2)
Durability	ASTM D 3744	52 Minimum

- 500 REVOLUTIONS
- RIP-RAP WITH A SPECIFIC GRAVITY OF LESS THAN 2.5 WILL NOT BE ALLOWED.
- RIP-RAP SHALL BE QUARRIED WITH FRACTURED FACES.
- RIP-RAP SHALL HAVE AN EARTH TONE WHICH BLENDS WITH SURROUNDING ENVIRONMENT.

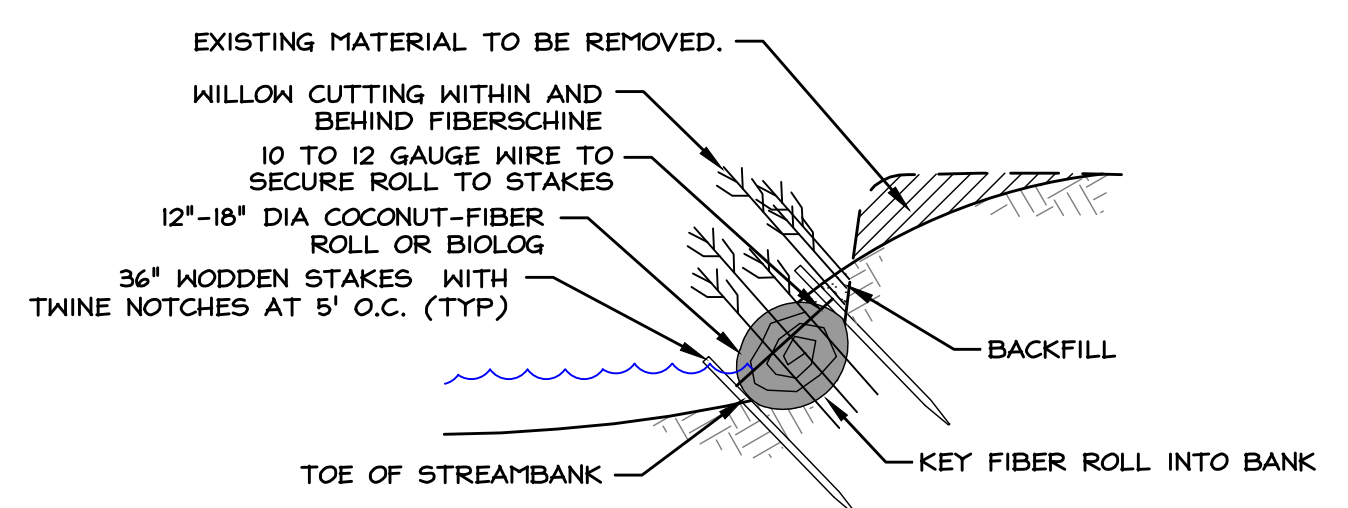
**ROCK RIP-RAP SPECIFICATIONS**

NO SCALE



**STREAM BARB DETAIL (ALTERNATE)**

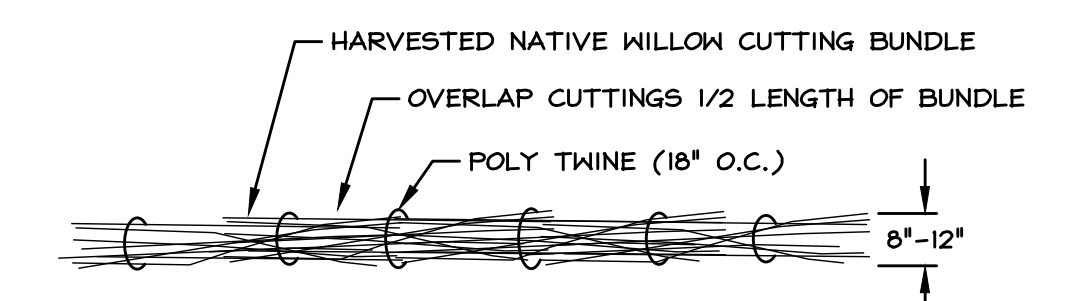
NO SCALE



- NOTES:
- EXTEND FIBERSCHINE 5 FEET BEYOND END OF TREATMENT AREA.
  - WILLOW CUTTINGS TO BE HARVEST FROM LOCAL SOURCE AS AVAILABLE.
  - CLEANLY DETACH WILLOW CUTTING MATERIAL 1' FROM EXISTING GROUND AT THE PLANT BASE. REMOVE SIDE AND TERMINAL BRANCHES. ASSURE NO BARK DAMAGE OCCURS TO REMAINING WILLOW BASE. PRESERVE AND PROTECT BASE IN PLACE.
  - PROTECT HARVEST SITE FROM PERMANENT DISTURBANCE. UPON COMPLETION OF HARVEST ACTIVITY, RESTORE SITE TO NATIVE CONDITIONS.
  - SOAK WILLOW CUTTINGS FOR 5-7 DAYS, BEFORE ROOTS BEGIN TO EMERGE FROM CUTTING.

**FIBERSCHINES WITH WILLOW CUTTINGS DETAIL**

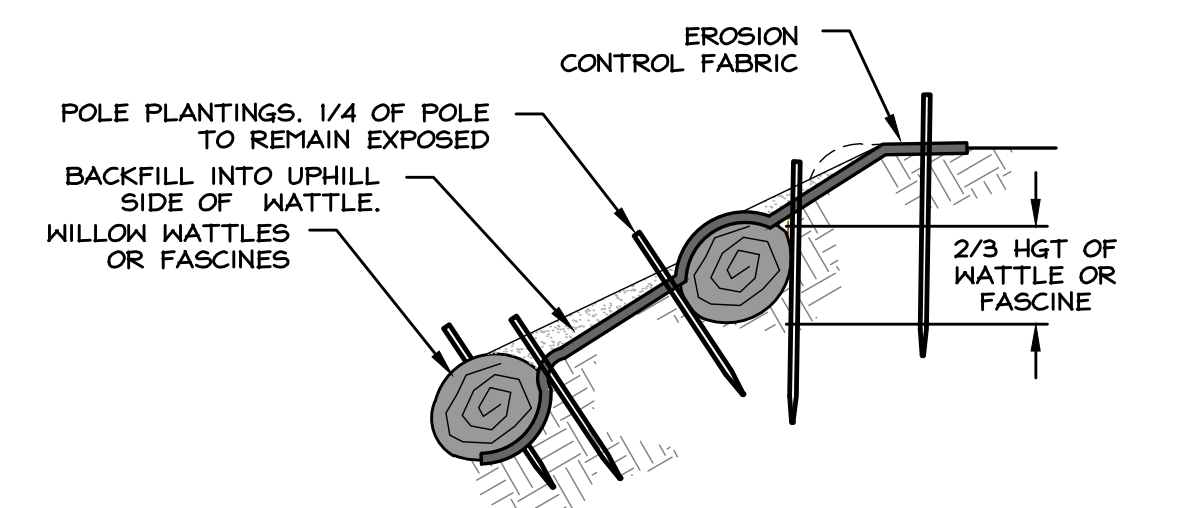
NOT TO SCALE



- NOTES:
- WILLOW CUTTINGS TO BE HARVEST FROM LOCAL SOURCE AS AVAILABLE.
  - CLEANLY DETACH WILLOW CUTTING MATERIAL 1' FROM EXISTING GROUND AT THE PLANT BASE. REMOVE SIDE AND TERMINAL BRANCHES. ASSURE NO BARK DAMAGE OCCURS TO REMAINING WILLOW BASE. PRESERVE AND PROTECT BASE IN PLACE.
  - SECURE WILLOW BUNDLE WITH 2 POLY TWINE PIECES PER BUNDLE.
  - PROTECT HARVEST SITE FROM PERMANENT DISTURBANCE. UPON COMPLETION OF HARVEST ACTIVITY, RESTORE SITE TO NATIVE CONDITIONS.
  - SOAK WILLOW CUTTINGS FOR 5-7 DAYS, BEFORE ROOTS BEGIN TO EMERGE FROM CUTTING.
  - ALTERNATE DIRECTION OF WILLOW BUNDLE TO PRODUCE AN EVEN WIDTH AT THE OVERLAP LOCATION.

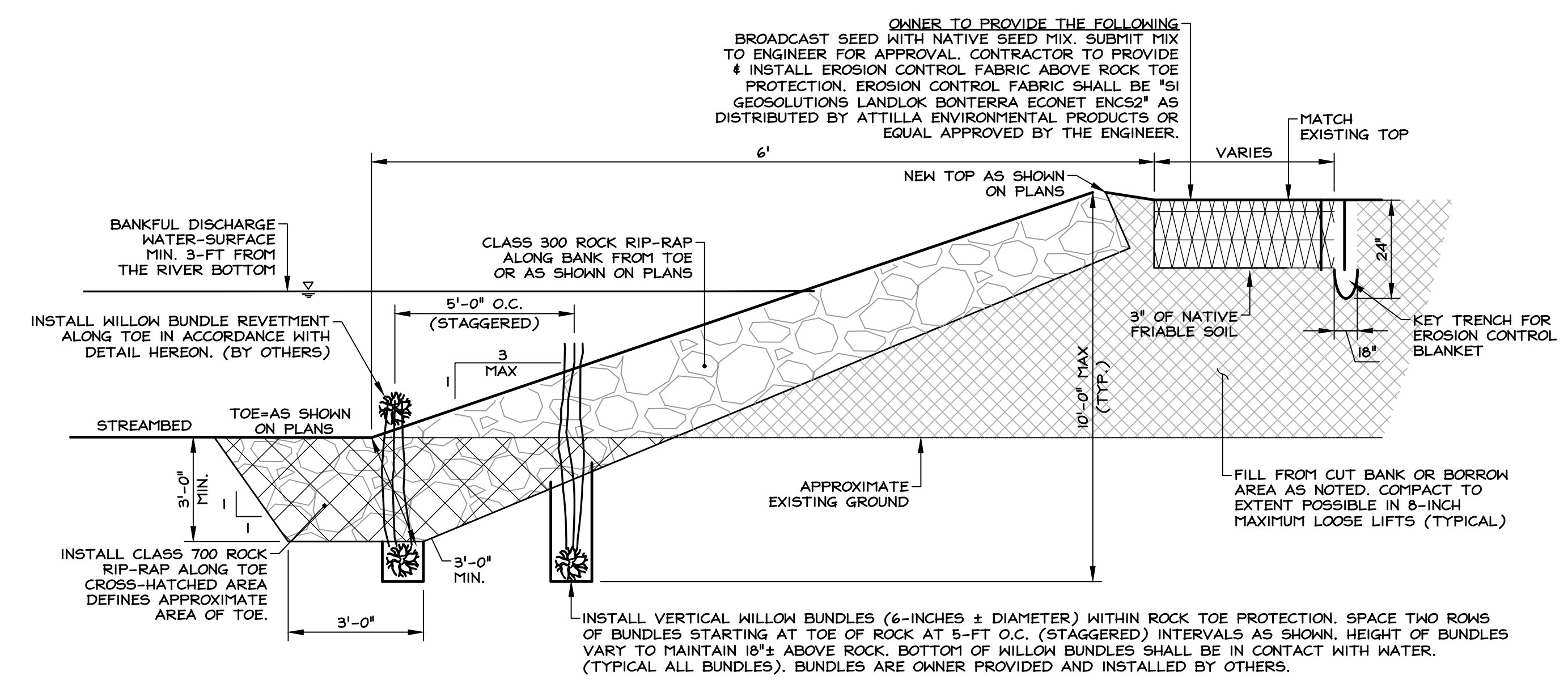
**WILLOW WATTLES DETAIL**

NOT TO SCALE



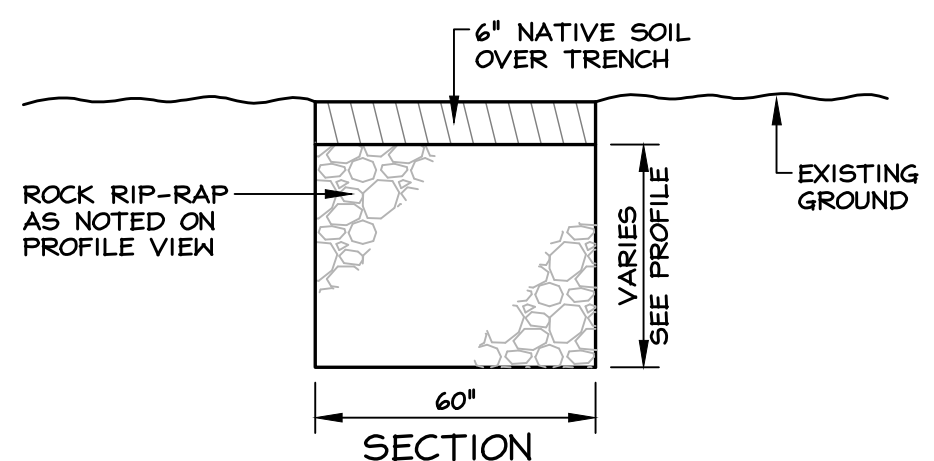
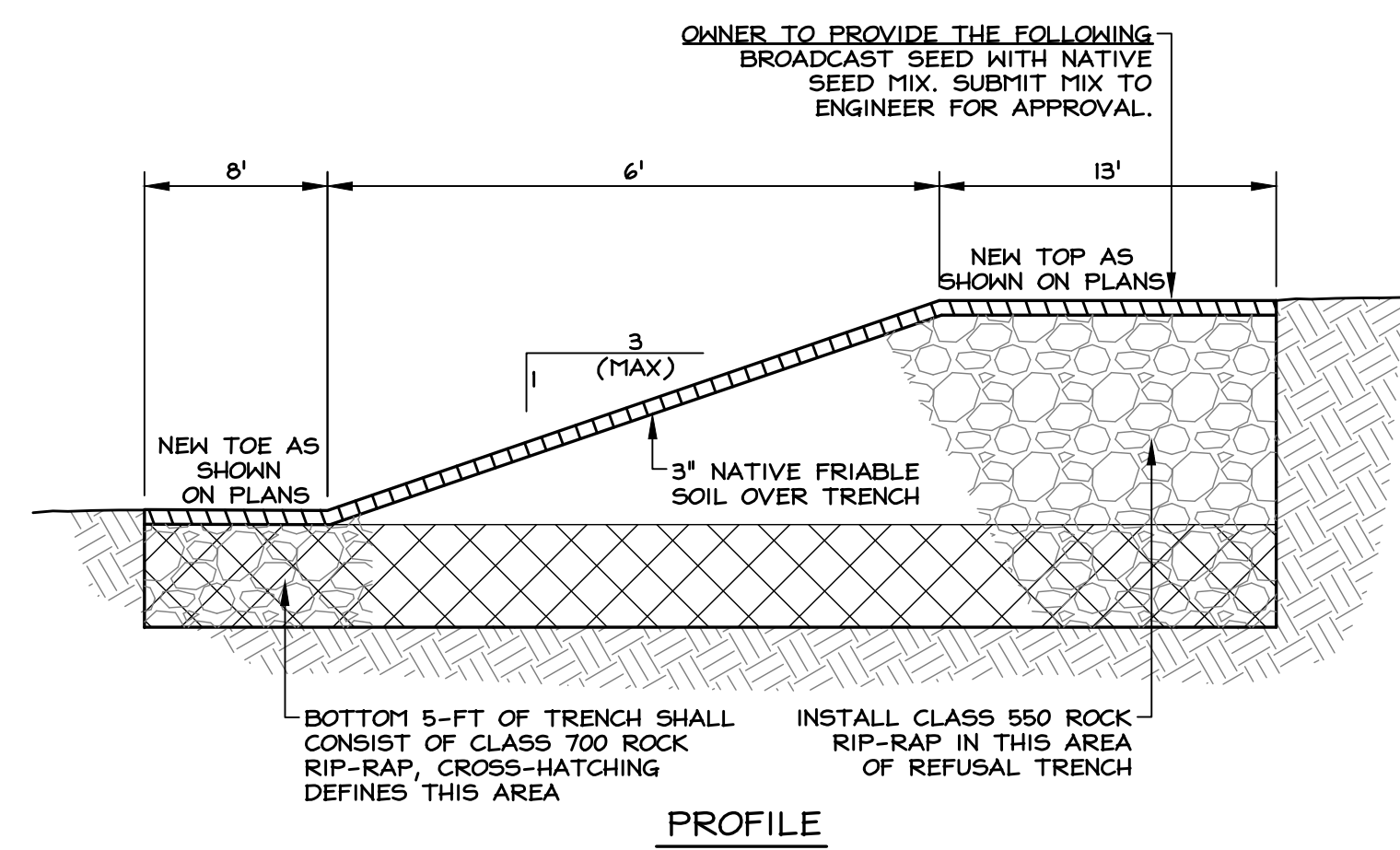
**WILLOW WATTLES, FABRIC, AND POLE PLANTINGS**

NOT TO SCALE



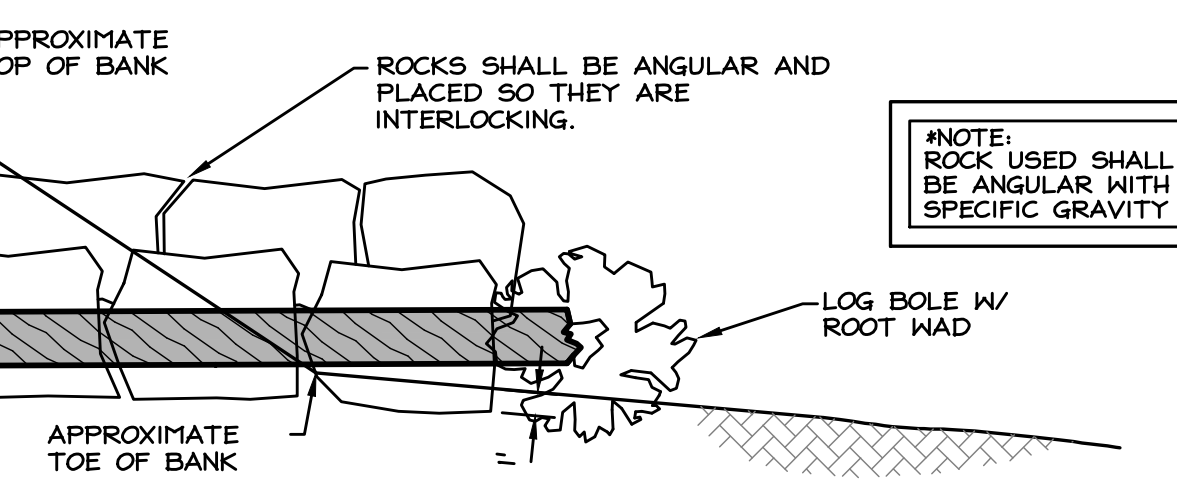
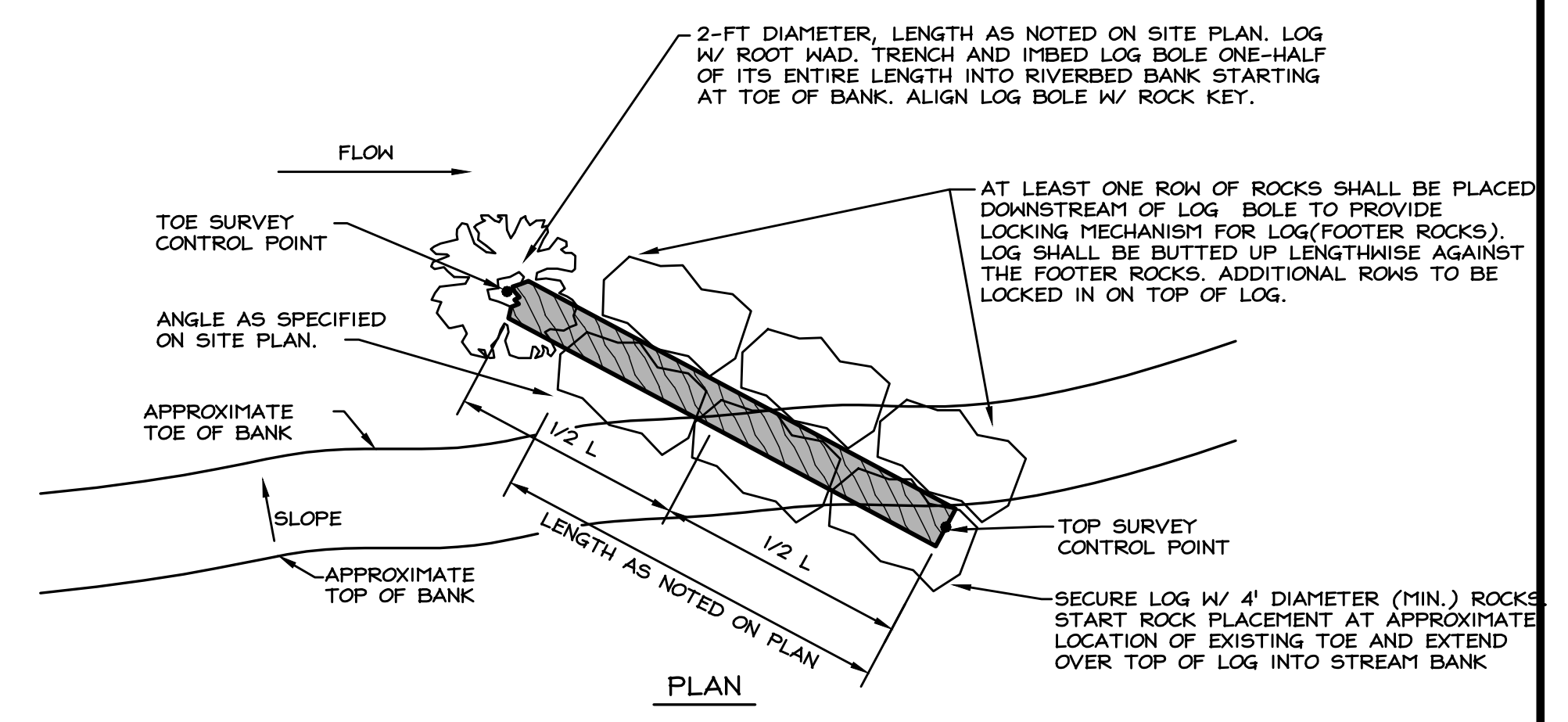
**ROCK TOE & SLOPE PROTECTION**

NO SCALE



**ROCK REFUSAL TRENCH**

NO SCALE



**LOG VEIN DETAIL**

NO SCALE

NOTE: ROCK USED SHALL BE ANGULAR WITH A MINIMUM SPECIFIC GRAVITY OF 2.56.



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NO.	DATE	REVISION BLOCK	BY

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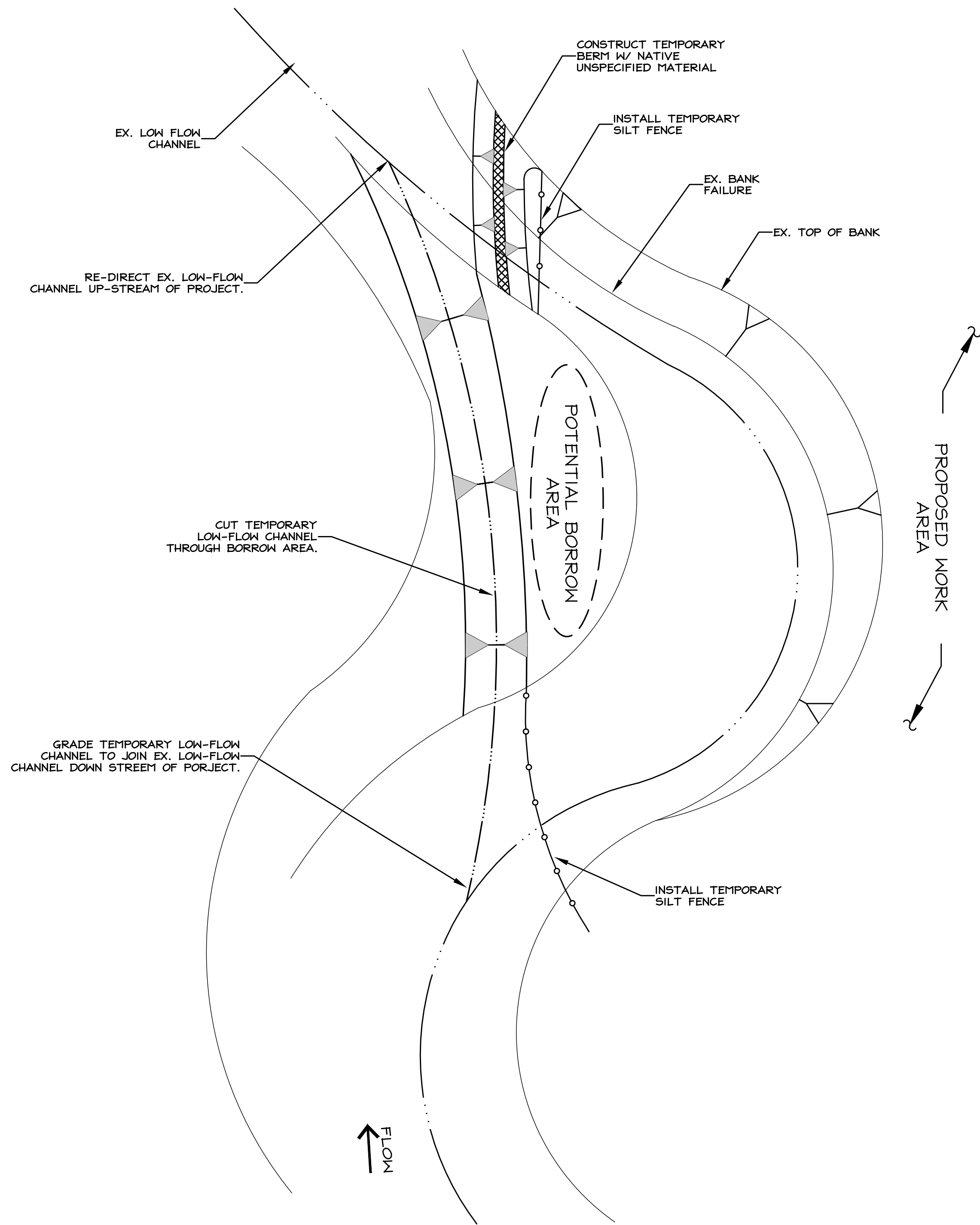
**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
CARSON VALLEY CONSERVATION DISTRICT

**DETAILS**

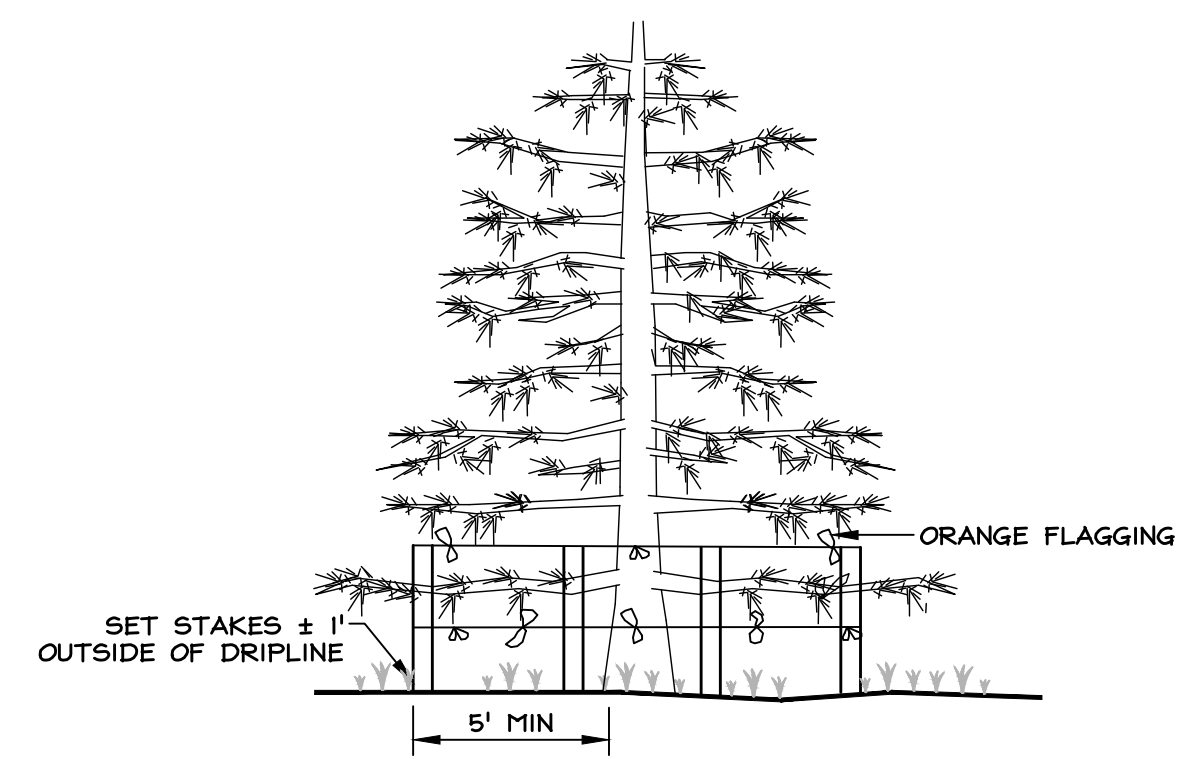
ENGINEER  
R. GORLA  
Nevada State Engineer  
Exp: 06/30/21  
CIVIL  
License No. 18557

DRAWN: JT	JOB: 1702-003
ENGINEER: NRG	DRAWING: SEE PLOT STAMP
SCALE: AS NOTED	SHEET: C11
DATE: 10.28.2020	OF: 12 SHEETS

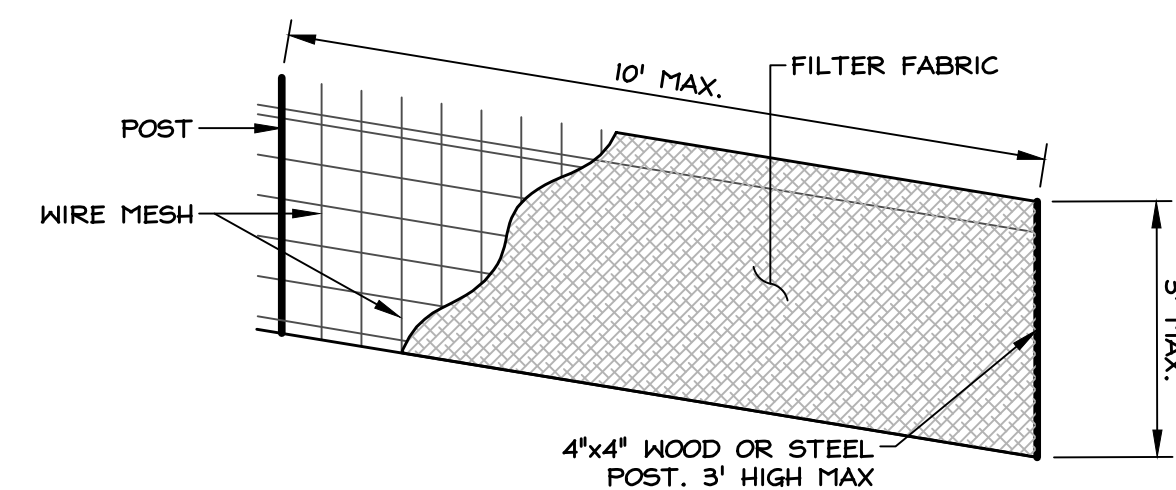
CALL BEFORE YOU DIG 1-800-227-2600



**TYPICAL DE-WATERING & EROSION CONTROL PLAN**  
NO SCALE



**TREE & VEGETATION PROTECTIVE FENCING**  
NO SCALE



**SILT FENCE**  
NO SCALE

**GENERAL NOTES:**

- SOME TYPES OF FILTER FABRIC FENCE HAVE STAKES INCLUDED AND DO NOT REQUIRE THE MATERIALS LISTED.
- THE FABRIC SHOULD NOT EXCEED MORE THAN 3' ABOVE THE GROUND. CUT FILTER FABRIC FROM A CONTINUOUS ROLL TO AVOID HAVING JOINTS. WHERE JOINTS ARE NECESSARY, SPLICE THE FABRIC ONLY AT A POST, WITH AT LEAST 6" OF OVERLAP, AND FASTEN BOTH ENDS SECURELY TO THE POST.
- INSPECT PERIODICALLY AND AFTER EACH STORM. REPLACE DAMAGED FENCE.
- CLEAN OUT THE SEDIMENT BEFORE IT REACHES 1/3 FENCE HEIGHT. DEPOSIT THE SEDIMENT WHERE IT WILL NOT ENTER A DRAINAGEWAY.

**SILT FENCE INSTALLATION INSTRUCTIONS:**

- SPACE POSTS NO MORE THAN 10' APART AND DRIVE THEM AT LEAST 1' INTO THE GROUND. ALIGN THE FENCE ALONG THE SLOPE CONTOUR, CURVING IT SLIGHTLY UPHILL TO AVOID END RUNS.
- DIG A 4"x4" TRENCH ALONG THE UPHILL SIDE OF THE POSTS.
- FASTEN WIRE MESH TO UPHILL SIDE OF POST WITH STAPLES (ON WOOD POSTS) OR WIRE (ON STEEL POSTS). EXTEND MESH TO BOTTOM OF TRENCH. (DO NOT ATTACH MESH OR FABRIC TO TREES).
- FASTEN FILTER FABRIC TO UPHILL SIDE OF POSTS WITH STAPLES OR WIRE. EXTEND FABRIC 8" INTO TRENCH.
- BACKFILL TRENCH AND COMPACT THE SOIL.

**MATERIALS:**

- SILT FENCE:
  - FILTER FABRIC SHALL BE 42" WIDE, TENSILE STRENGTH 120 LBS., EQUIVALENT OPENING SIZE 70.
  - POSTS SHALL BE 5' LONG (MIN.), 4"x4" WOOD OR 1.3 LBS./FT STEEL.
  - WIRE MESH SHALL BE 42" WIDE, 6" MESH, 1/4 GAUGE WIRE (MINIMUM).
  - STAPLES (FOR WOOD POSTS) SHALL BE HEAVY DUTY 1" LONG, 14 GAUGE (MINIMUM).
  - WIRE (FOR STEEL POSTS).

**GENERAL NOTES**

- PLAN SHOWN IS GENERIC & WILL REQUIRE ADJUSTMENT IN FIELD BY CONTRACTOR.
- PLAN ASSUMES WORK IS CONDUCTED AT EXTREMELY LOW FLOW CONDITIONS.
- CONTRACTOR SHALL SATISFY HIMSELF THAT LOCATION WHERE TEMPORARY LOW-FLOW CHANNEL IS CUT WILL ALLOW ENOUGH BORROW AREA TO SATISFY FILL REQUIREMENTS OF PROJECT.
- LOW-FLOW CHANNEL WILL BE FILLED & RESTORED TO EX. CONDITIONS.

**SPILL PREVENTION AND RESPONSE**

- CONTRACTOR SHALL STEAM CLEAN ALL EQUIPMENT THAT WILL BE WORKING IN RIVER BED AT SHOP PRIOR TO COMMENCING CONSTRUCTION.
- ALL EQUIPMENT SHALL BE CHECKED FOR LEAKS AND REPAIRED PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL INSURE INTEGRITY OF SILT FENCE AND STRAW BALE BARRIERS DURING THE COURSE OF CONSTRUCTION.
- CONTRACTOR SHALL USE DRIP PANS OR ABSORBENT MATS DURING FUELING AND MAINTENANCE TO PROTECT AGAINST SPILLS.
- SPILLED PETROLEUM PRODUCTS, CONTAMINATED SOILS OR WATER, AND ACCUMULATED SEDIMENTS SHALL BE CLEANED UP AND PROPERLY DISPOSED OF AT A LICENSED LANDFILL. DISCHARGE OF SUCH MATERIALS TO THE RIVER CHANNEL OR DITCHES IS PROHIBITED.

**REVEGETATION**

- ALL DISTURBED AREAS, CUT & FILL SLOPES SHALL BE RE-SEEDDED. THE SEED MIX, APPLICATION RATE ETC. SHALL BE SPECIFIED BY THE CVCD.
- REVEGETATED AREAS WILL BE INSPECTED AT COMPLETION OF INSTALLATION & ACCEPTANCE SUBJECT TO COMPLIANCE WITH SPECIFIED MATERIALS & INSTALLATION REQUIREMENTS. FOR ONE FULL GROWING SEASON AFTER PLANTING, CONTRACTOR SHALL GUARANTEE 30% COVERAGE BY SEEDED SPECIES & MULCH SUCH THAT THERE IS NO SIGNIFICANT EVIDENCE OF RILLS, GULLIES OR OTHER EVIDENCE OF EROSION. IF ADEQUATE COVERAGE IS NOT ACHIEVED, THE CONTRACTOR SHALL RE-SOIL, AMEND, RE-SEED OR RE-MULCH. THE ENGINEER, UPON CONTRACTOR'S REQUEST, WILL MAKE FINAL INSPECTION & ACCEPTANCE ONE FULL YEAR FOLLOWING COMPLETION OF SEEDING (THE MAINTENANCE PERIOD). PROVIDE NOTIFICATION AT LEAST 10 WORKING DAYS BEFORE REQUESTED INSPECTION DATE.

**GENERAL DE-WATERING & TEMPORARY EROSION CONTROL PLAN NOTES**

- IN CASE OF EMERGENCY CALL CARSON VALLEY CONSERVATION DISTRICT (RICH WILKINSON, @ 775-782-3661 X 3830 OR ENGINEER @ 775-782-2322).
- CONTRACTOR MAY SUBMIT ALTERNATE DE-WATERING & EROSION CONTROL PLAN TO ENGINEER. SUBMITTAL SHALL BE MADE IN ADVANCE OF CONSTRUCTION ACTIVITIES FOR REVIEW & APPROVAL.
- CONSTRUCTION SHALL BE SCHEDULED TO COINCIDE WITH PERIODS OF LOW FLOW IN THE RIVER.
- RESTORE AREAS DISTURBED BY DE-WATERING ACTIVITIES TO PRE-CONSTRUCTION CONDITIONS.
- ANY PASTURE FENCES DAMAGED, FAILING OR RELOCATED FOR CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO EXISTING CONDITIONS AT TOP OF BANK.
- DUST SHALL BE CONTROLLED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. TRASH WILL BE HAULED TO A LICENSED DISPOSAL FACILITY. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE.
- THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
- A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES. NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT APPROVED LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR DAMAGED EROSION CONTROL MEASURES. CONTRACTOR SHALL PROVIDE OWNER WITH THE NAME & PHONE NUMBER OF EMERGENCY CONTACT AT THE PRE-CONSTRUCTION MEETING.
- AFTER A RAINSTORM, ALL BMP'S AND GRADED SLOPE SURFACE PROTECTION MEASURES SHALL BE INSPECTED TO VERIFY CONTINUED SATISFACTORY OPERATION AND REPAIRED OR REPLACED IF NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
- FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- BUILT UP SEDIMENT SHALL BE REMOVED AS NECESSARY TO MAINTAIN PROPER FUNCTIONING OF THE BMP'S.
- ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.
- A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. THE REPORT WILL CONTAIN THE NAME OF THE INSPECTOR, MEASURES, AREAS INSPECTED, OBSERVED CONDITIONS, AND NOTE CHANGES NECESSARY.
- REPORT RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS (IF THEY OCCUR) TO NDEP AND THE OWNER WITHIN 24 HOURS.
- FILTER FABRIC FENCES. IF THE FABRIC BECOMES CLOGGED, TORN, OR DEGRADES, IT SHOULD BE REPLACED. MAKE SURE THE STAKES ARE SECURELY DRIVEN IN THE GROUND AND ARE IN GOOD SHAPE (IE., NOT BENT, CRACKED, OR SPLINTERED, AND ARE REASONABLY PERPENDICULAR TO THE GROUND.) REPLACE DAMAGED STAKES.
- SEDIMENT THAT ACCUMULATES IN THE BMP MUST BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN THE SEDIMENT ACCUMULATION REACHES ONE-THIRD OF THE BARRIER HEIGHT. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.
- NO DE-WATERING UNTIL FLOWS EXCEED 400 CFS AS READ AT THE CARSON CITY GAUGE.



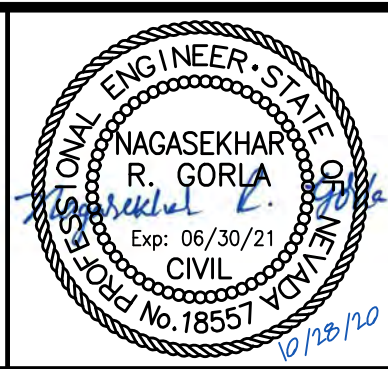
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**2020 CARSON RIVER BANK STABILIZATION PROJECTS**  
 CARSON VALLEY CONSERVATION DISTRICT

**DE-WATERING & TEMPORARY EROSION CONTROL PLAN**



DRAWN: JT	JOB: 1702-003
ENGINEER: NRG	DRAWING: SEE PLOT STAMP
SCALE: AS NOTED	SHEET: C12
DATE: 10.28.2020	OF: 12 SHEETS

BID SET 10.28.2020