



**US Army Corps
of Engineers®**

PUBLIC NOTICE

Applicant:
Roger MacGregor
Gold Standard Venture Corp

Published: **August 26, 2025**
Expires: **September 25, 2025**

Sacramento District
Permit Application No. SPK-2018-00673

TO WHOM IT MAY CONCERN: The Sacramento District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344). The purpose of this public notice is to solicit comments from the public regarding the work described below:

APPLICANT: Roger MacGregor
Gold Standard Ventures Corp.
2320 Last Chance Road
Elko, NV 89803

AGENT: Victor Ross
Stantec Consulting Services Inc.
401 Railroad Street Suite 410
Reno, NV 89511

WATERWAY AND LOCATION: The project would affect waters of the United States associated with Dixie Creek and the South Fork Humboldt River. The approximately 8,548-acre project area is located 25 miles southwest of Elko, Nevada; at Latitude 40.4764°N and Longitude 116.0428°W; in Elko County, Nevada.

Table 1: Proposed South Railroad Mine Location		
Township	Range	Sections
30N	53E	1,2,11,12,13-16,20-28
31N	53E	25,26,35
	54E	3,4,9,10,16,17,19,20,30
32N	54E	25-27,34-36
	55E	16,17,19-21,29,30

EXISTING CONDITIONS: The study area for the aquatic resources delineation report totaled 22,734 acres with an estimated 39.18 acres of stream, 50.48 acres of wetlands, 0.88 acres of ponds, and 21.98 acres of lake. The Corps has not verified the aquatic resources delineation. Approximately half of the project area is located on land administered by the Bureau of Land Management. The site generally slopes from the southwest corner to the northeast corner, resulting in water draining into Dixie Creek, which flows to the Humboldt River.

PROJECT PURPOSE:

Basic: Mineral extraction.

Overall: The applicant has identified the overall purpose and need of the proposed action:

[T]o allow Gold Standard Ventures Inc., a subsidiary of Orla Mining Ltd. to profitably extract gold from public lands where they have mining claims, as well as on private land controlled by Orla Mining Ltd. The need for the project is to meet the current market demand for gold, which is regularly adjusted commodity exchanges throughout the world.

The Corps will work with the applicant to further define the overall project purpose during review of the proposed action.

PROPOSED WORK: The applicant requests authorization to discharge 3,533.2 cubic yards of fill material into 0.28 acres of wetlands and 0.45 acres of relatively permanent streams for the construction of a gold mine, access road, and attendant facilities.

Table 2: Project Impacts			
Resource Type	Acres	Linear Feet	Cubic Yards of Fill
Wetlands	0.28	-	1,355.2
Intermittent Streams	0.40	9,514	1,936.0
Perennial Streams	0.05	1,338	242
Total	0.73	10,652	3,533.2

Specifically, the proposed project includes four open pits, three waste rock disposal facilities, an ore-crushing and conveying system, a heap leach facility, an onsite power plant, water treatment and supply systems, and various ancillary infrastructure such as maintenance facilities, offices, and access roads. Approximately 211 million tons of material (52 million tons of ore and 159 million tons of waste rock) would be extracted using conventional open-pit methods, with ore processed through crushing, agglomeration, and heap leaching with cyanide solution. The resultant gold-bearing solution would be refined onsite before ore is shipped offsite. Dewatering of the Dark Star North pit would commence in year two, using a network of deep wells and in-pit sumps, with extracted groundwater used in operations or treated before discharge.

Project specific impacts that require a permit includes the culverting of jurisdictional streams for the construction of the access road which would impact approximately 3,219 linear feet or 0.16 acres of streambed. The construction of the attendant features would result in the discharge of fill material into approximately 0.57 acres of jurisdictional streambed and wetlands. These attendant features include heap leach pads, growth media stockpiles, waste rock disposal facilities, processing ponds, and administrative areas.

AVOIDANCE AND MINIMIZATION: The applicant has stated that the mine project design has undergone several iterations to avoid impacts to aquatic resources. This included assessing alternative for the mine layout and access road designs. The applicant has provided the following information in support of efforts to minimize impacts to the aquatic environment:

Orla Mining will employ a suite of best management practices listed to further minimize anticipated impacts from the proposed project.

1. Implement Compensatory Mitigation Plan.
2. Culverts will be installed with size and installation requirements.
3. Natural drainages shall be maintained by appropriately sized and placed culverts.
4. Culverts along the existing access road will be evaluated and replaced, as necessary, to include ephemeral channels.
5. Develop appropriate measures to prevent erosion and sediment transport to waterways and wetlands.
6. Compliance with the State of Nevada 401 Water Quality Certification.
7. Fill material must be clean.
8. Maintain floodplain integrity and connectivity.
9. No material or equipment shall be stockpiled in unpermitted wetlands.
10. No mechanized clearing shall occur in wetlands out of the Mine Project footprint.
11. Minimize fugitive dust during life of project.

COMPENSATORY MITIGATION: The applicant proposes to offset unavoidable functional loss to the aquatic environment through permittee responsible compensatory mitigation under the watershed approach. The applicant proposes to preserve, enhance, and restore intermittent and perennial stream reaches at ratios of 0.77:1 and 1:1.1 respectively. The applicant proposes a combination of riparian preservation and enhancements, cattle exclusion, bank grading, habitat improvements, and pattern and profile adjustments to stream geomorphology.

CULTURAL RESOURCES:

The Corps is evaluating the undertaking for effects to historic properties as required under Section 106 of the National Historic Preservation Act. This public notice serves to inform the public of the proposed undertaking and invites comments including those from local, State, and Federal government Agencies with respect to historic resources. Our final determination relative to historic resource impacts may be subject to additional coordination with the State Historic Preservation Officer, federally recognized tribes and other interested parties.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps-identified permit area.

ENDANGERED SPECIES: The Corps has performed an initial review of the application, the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) to determine if any threatened, endangered, proposed, or candidate species, as well as the proposed and final designated critical habitat may occur within the boundary of the proposed project. Based on this initial review, the Corps has made a preliminary determination that the proposed project may affect species and critical habitat listed in Table 3. No other ESA-listed species or critical habitat will be affected by the proposed action.

Table 3: ESA-listed species and/or critical habitat potentially present in the action area.		
Species Common Name and/or Critical Habitat Name	Scientific Name	Federal Status
Whitebark Pine	<i>Pinus albicaulis</i>	Threatened
Lahontan Cutthroat Trout	<i>Oncorhynchus clarkii henshawi</i>	Threatened
Monarch Butterfly	<i>Danaus plexippus</i>	Proposed Threatened
Suckley's Cuckoo Bumble Bee	<i>Bombus suckleyi</i>	Proposed Endangered

This notice serves as request to the U.S. Fish and Wildlife Service for any additional information on whether any listed or proposed to be listed endangered or threatened species or critical habitat may be present in the area which would be affected by the proposed activity.

NAVIGATION: The proposed structure or activity is not located in the vicinity of a federal navigation channel.

SECTION 408: The applicant will not require permission under Section 14 of the Rivers and Harbors Act (33 USC 408) because the activity, in whole or in part, would not alter, occupy, or use a Corps Civil Works project.

WATER QUALITY CERTIFICATION: Water Quality Certification or waiver is required from the Nevada Division of Environmental Protection.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The geographic extent of aquatic resources within the proposed project area that either are, or are presumed to be, within the Corps jurisdiction has not been verified by Corps personnel.

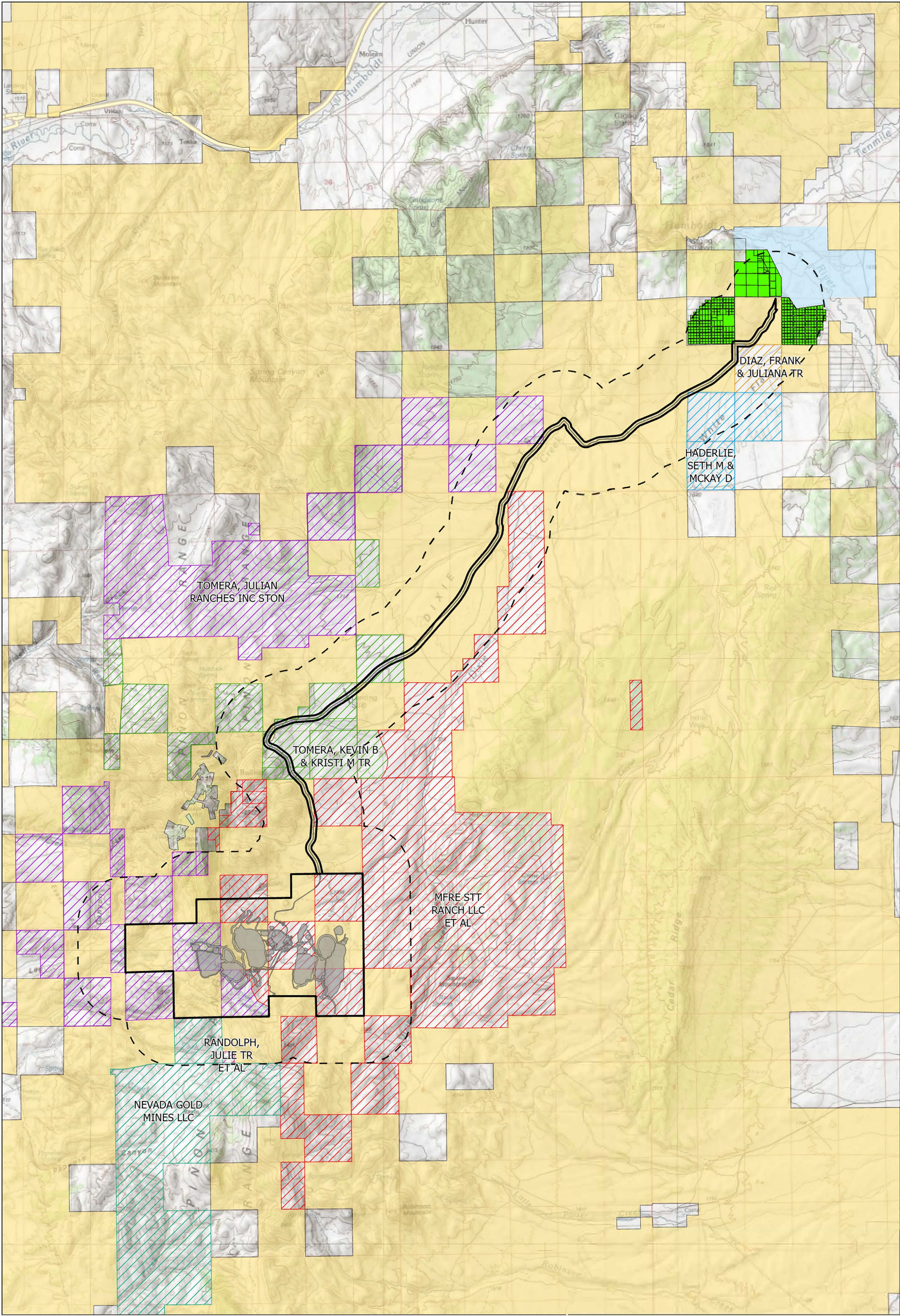
EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

COMMENTS: The Corps is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The Sacramento District will receive written comments on the proposed work, as outlined above, until **September 25, 2025**. Comments should be submitted electronically via the Regulatory Request System (RRS) at <https://rrs.usace.army.mil/rrs> or to Ethan Schindler at ethan.w.schindler@usace.army.mil. Alternatively, you may submit comments in writing to the Commander, U.S. Army Corps of Engineers, Sacramento District, Attention: Ethan Schindler, 1325 J Street, Room 860, Sacramento, California 95814-2922. Please refer to the permit application number (SPK-2018-00673) in your comments.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing will be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

V:\2037\Active\20372151303_data\gis\mxd\Working_Apr2025\Working_Apr2025.aprx Revised: 2025-04-08 By: jbarber



- Legend**
- Mine Project Area
 - 1-Mile Buffer
 - Mine Project Disturbance Footprint
 - Land Ownership**
 - Bureau of Land Management
 - Nevada State
 - Private

- Private Land Owner**
- HADERLIE, SETH M & MCKAY D
 - MFRE STT RANCH LLC ET AL
 - NEVADA GOLD MINES LLC
 - RANDOLPH, JULIE TR ET AL
 - TOMERA, JULIAN RANCHES INC STON
 - TOMERA, KEVIN B & KRISTI M TR
 - DIAZ, FRANK & JULIANA TR
 - Small Parcels



0 1 2 Miles
1 in = 2 miles

T29-30N, R53E Elko County, NV
NAD 1983 UTM Zone 11N

DRAWN BY: BT

1ST REVIEW: JD

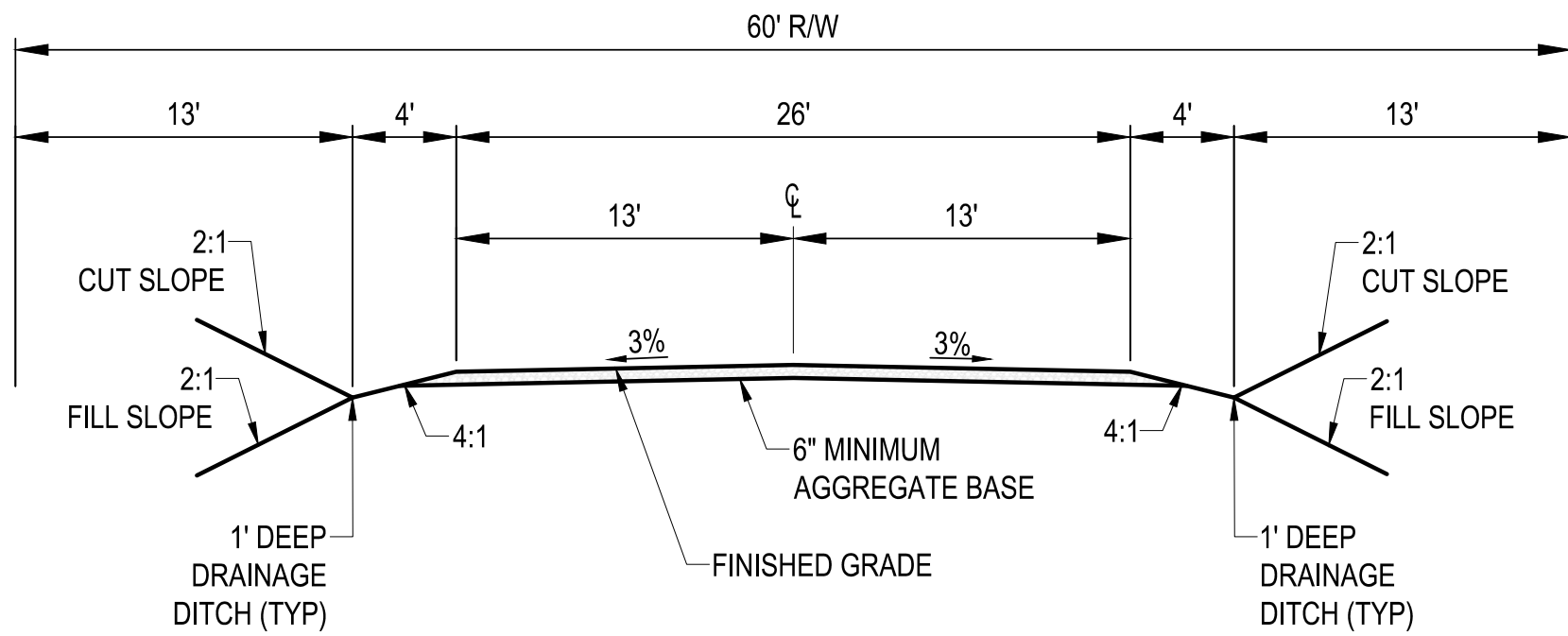
2ND REVIEW: SM

DATE: 2025-04-08

Applicant: Gold Standard Ventures
File No: SPK-2018-00673
Waterway: Humboldt River
Proposed Activity: South Railroad Project

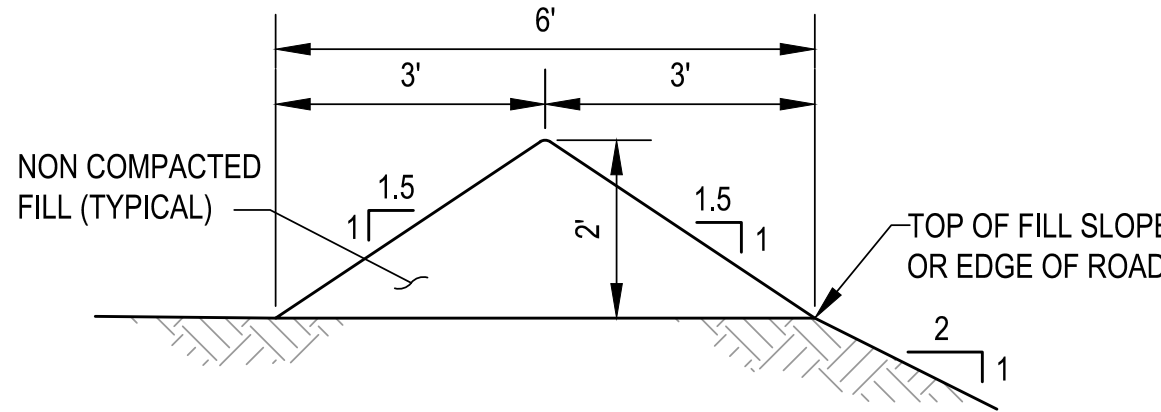
Figure 5
Private Land Ownership

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.



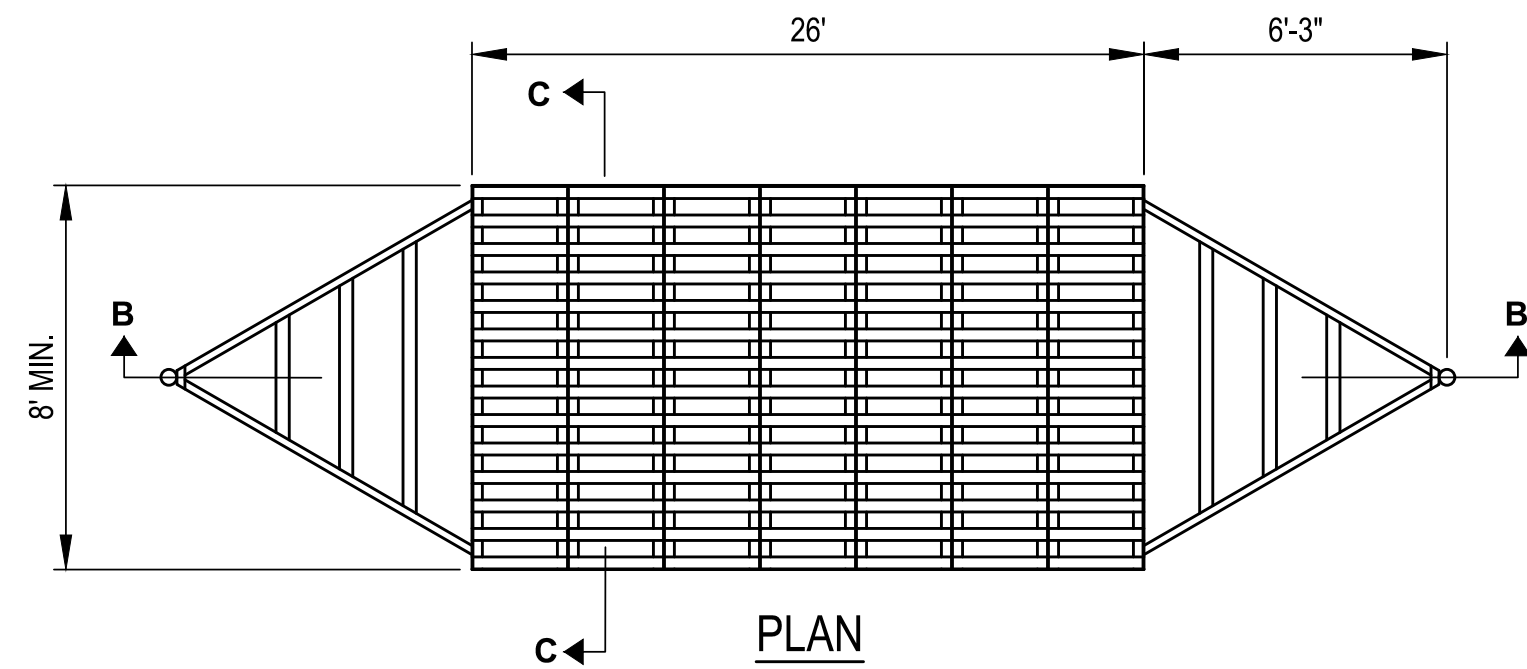
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103

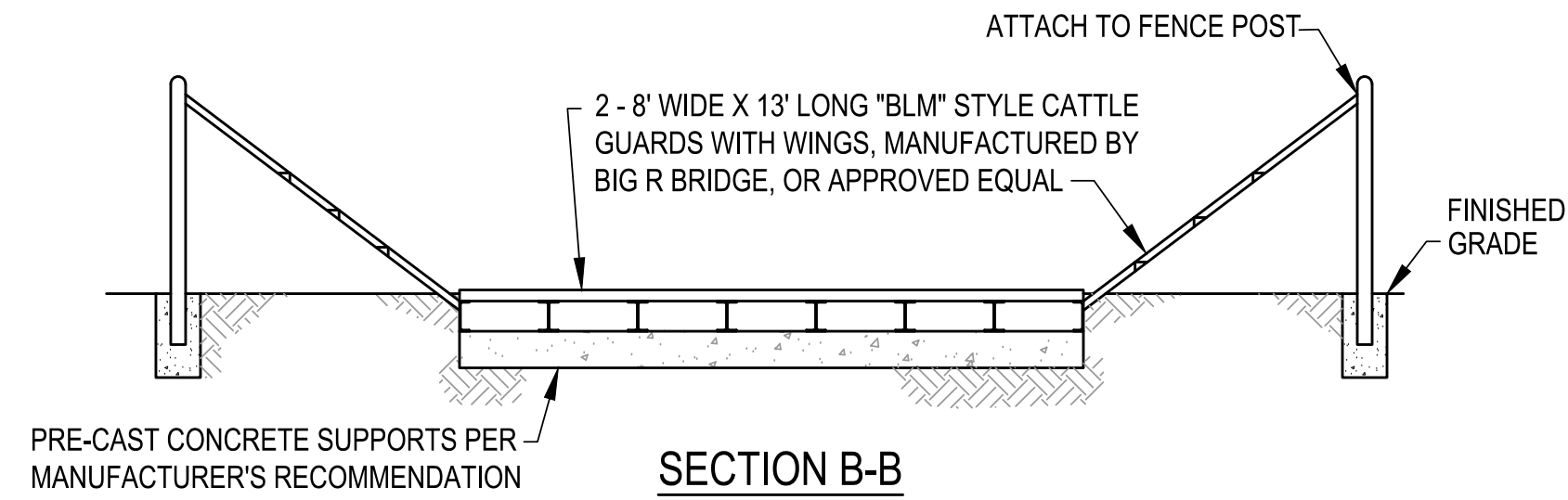


SAFETY BERM
SCALE: NTS

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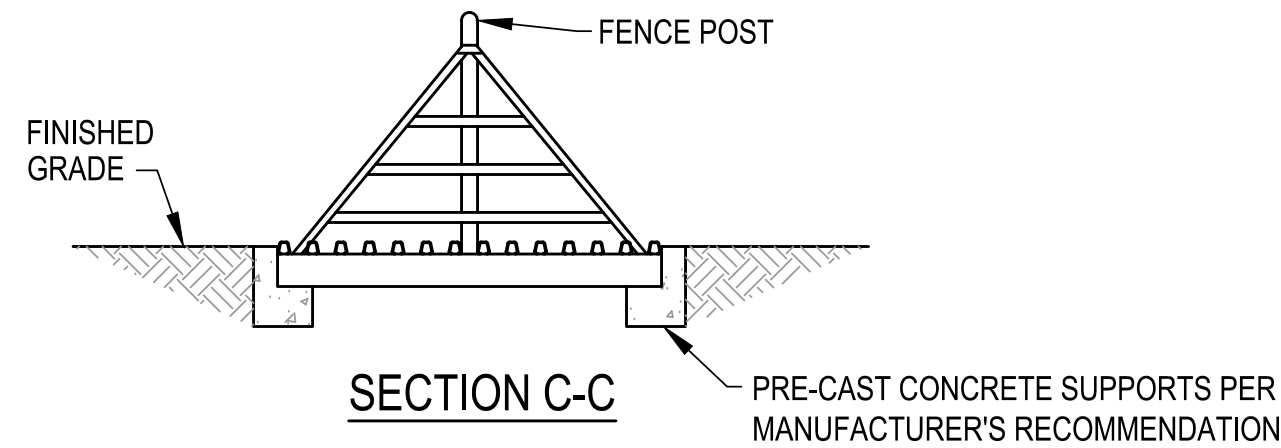
PLAN



SECTION B-B

NOTE:

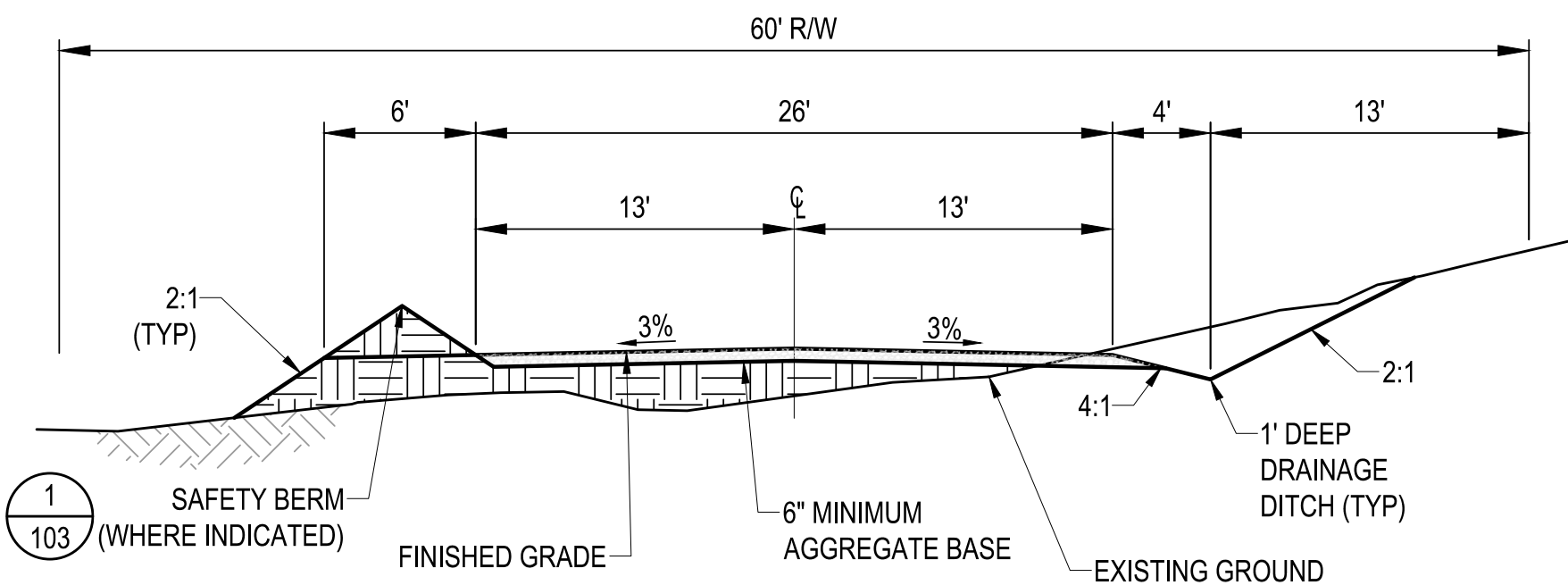
1. TRAFFIC LOADING IS HS-20.
2. ALL MATERIAL TO BE FACTORY PAINTED.
3. PER NVDOT STD DTL R-7.1.2 (617).



SECTION C-C

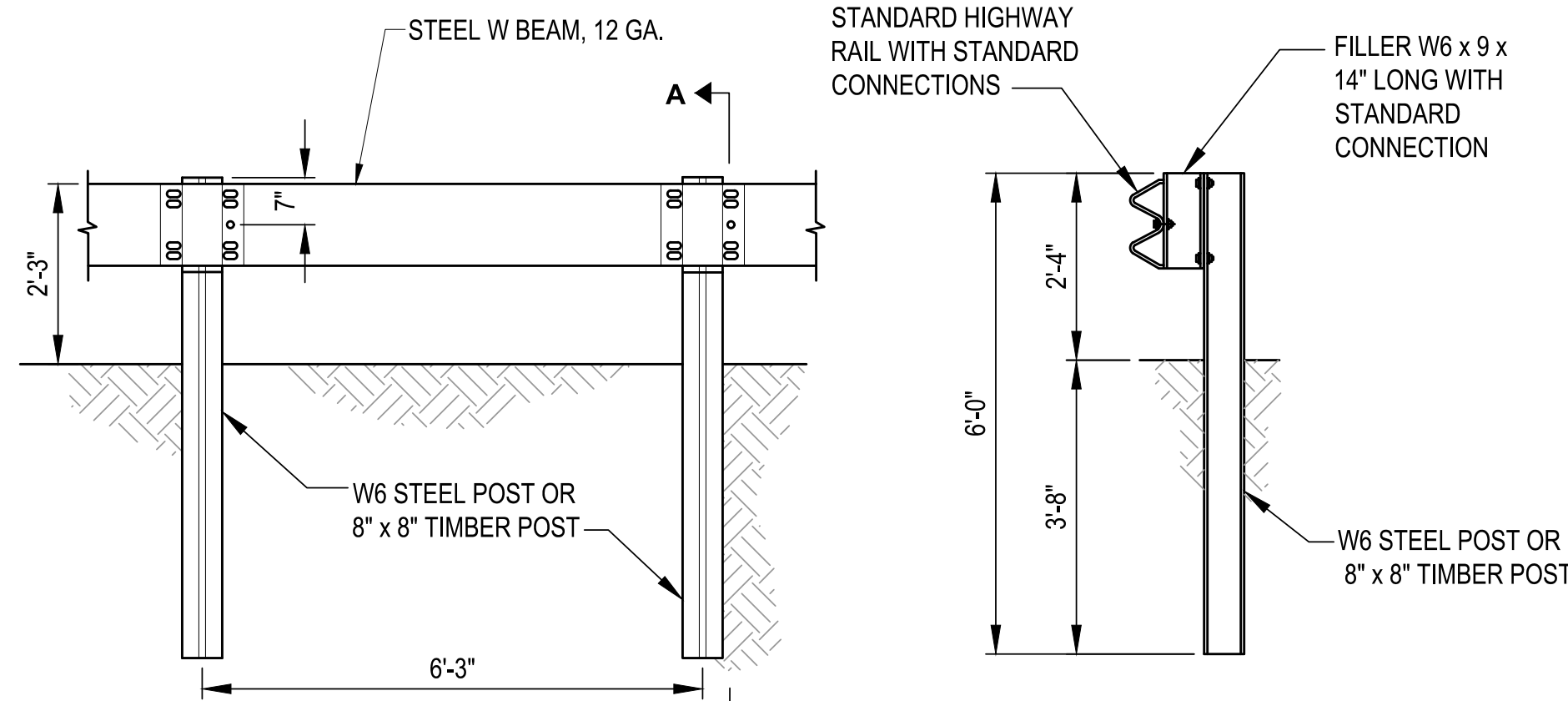
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3
103



**ACCESS ROAD
TYPICAL SECTION**
SCALE: NTS

2
103

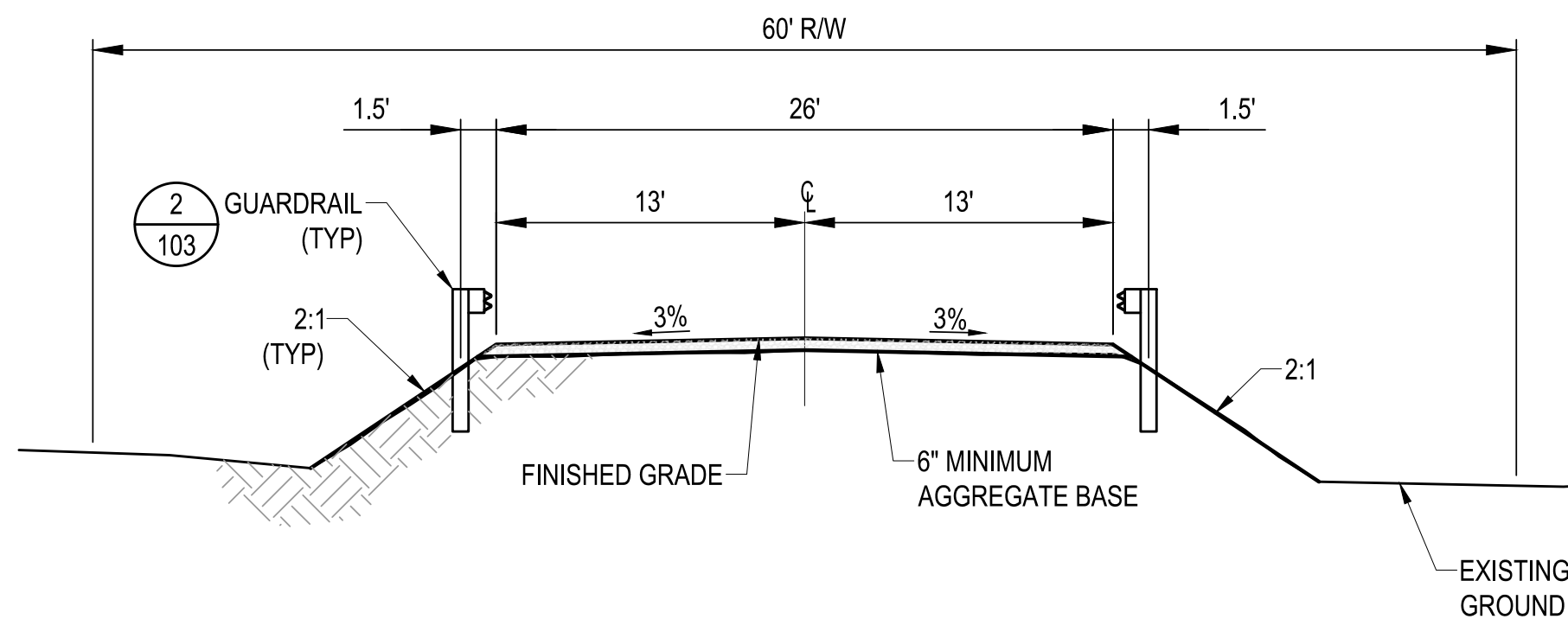


ELEVATION

GUARDRAIL DETAIL
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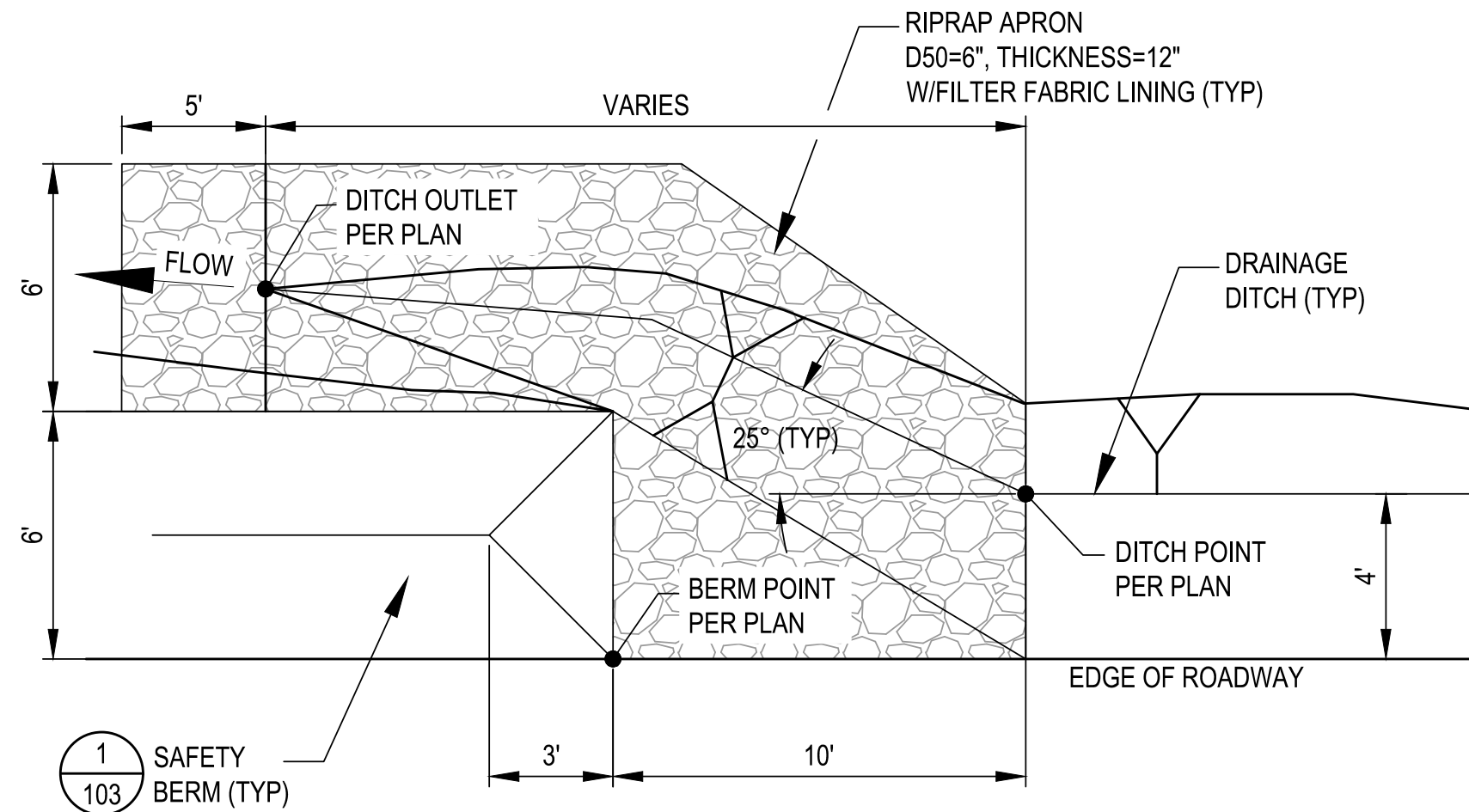
SECTION A-A

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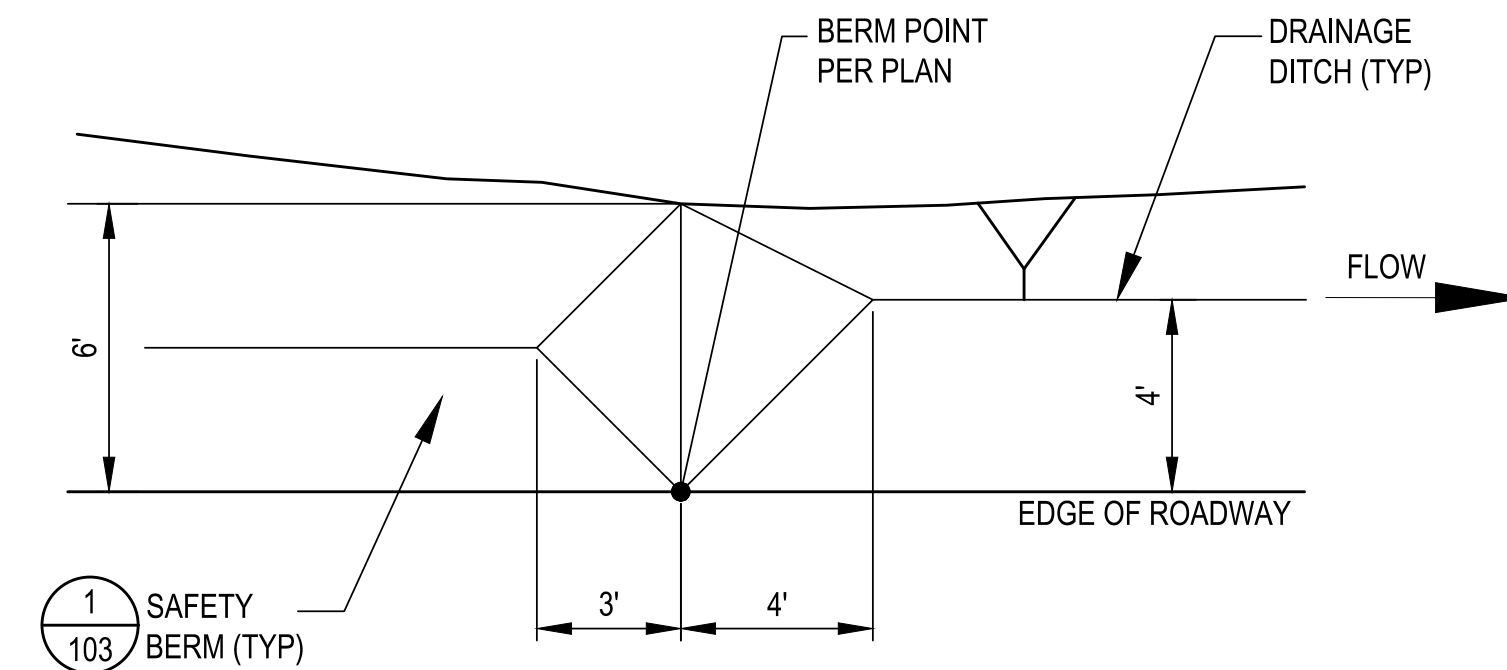
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TYPICAL SECTION**
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2
103



DITCH OUTLET DETAIL
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4
103



DITCH TRANSITION DETAIL
SCALE: NTS

5
103

DO NOT SCALE 11x17 DRAWINGS

GSV Gold Standard
VENTURES CORP.

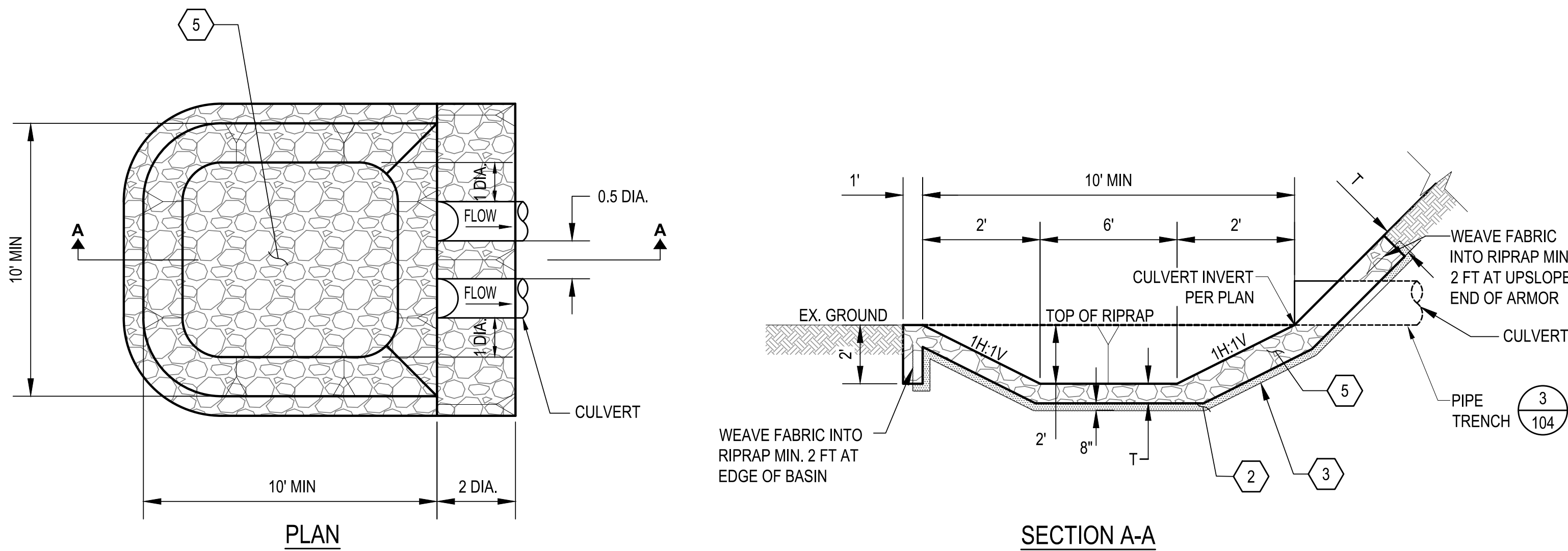
PRELIMINARY
NOT FOR CONSTRUCTION

m3 ARCHITECTURE
ENGINEERING
CONSTRUCTION MANAGEMENT
M3ENG.COM

SOUTH RAILROAD PROJECT FS

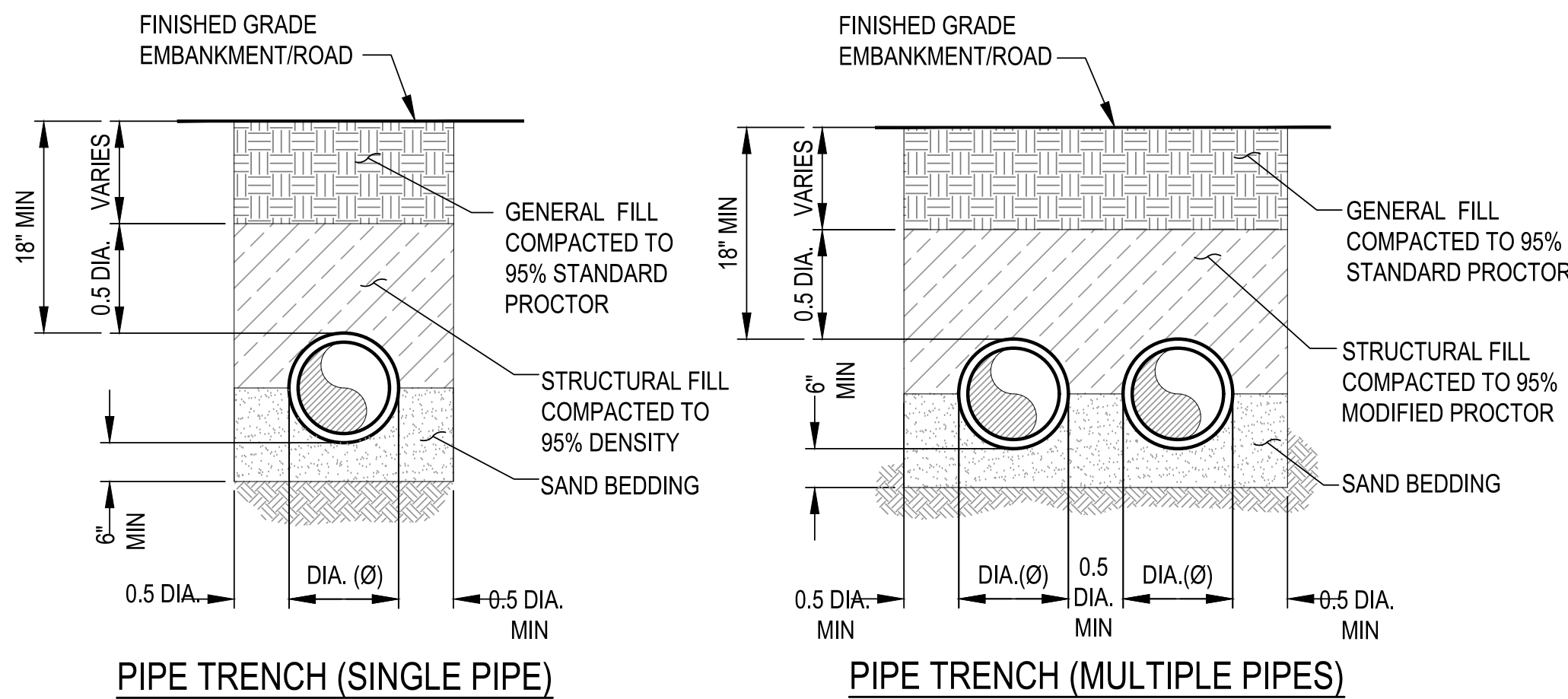
**GENERAL
CIVIL
NORTH ACCESS ROAD
SECTIONS AND DETAILS - SHT 1**

PROJECT NO. M3-PN 185074.602
DWG NO.
000-CI-103
REV NO. P3
DATE 11 MAY 23



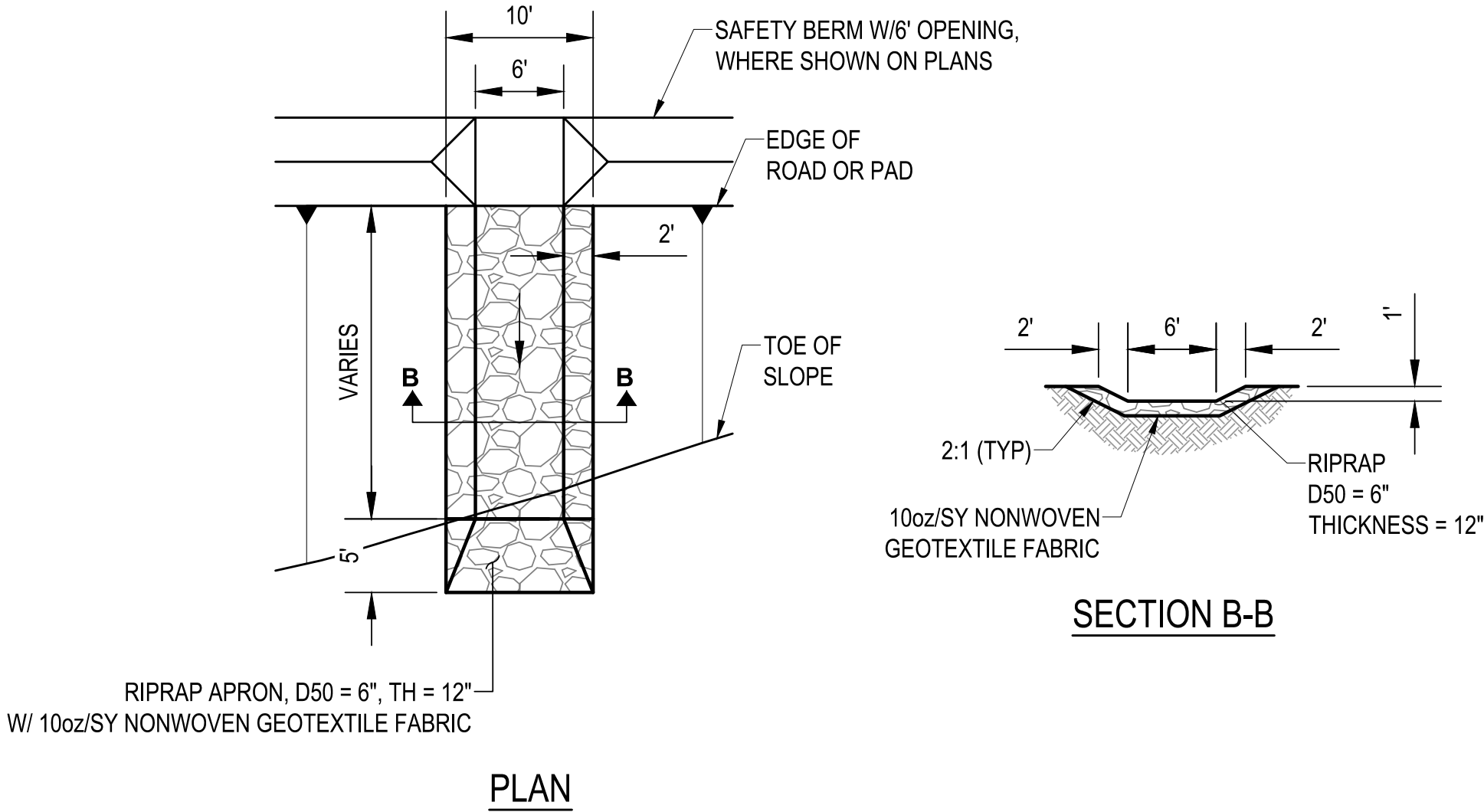
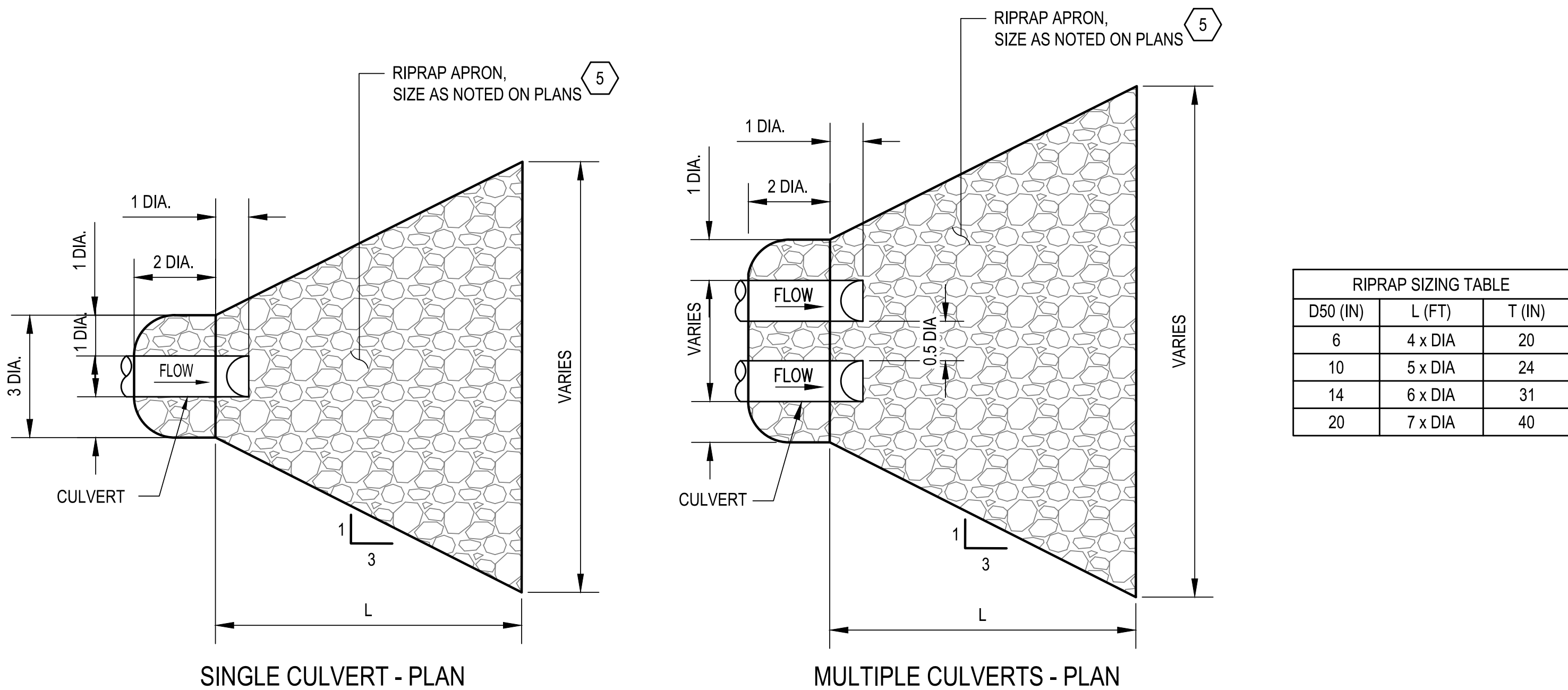
CULVERT INLET BASIN DETAIL
SCALE: NTS

1
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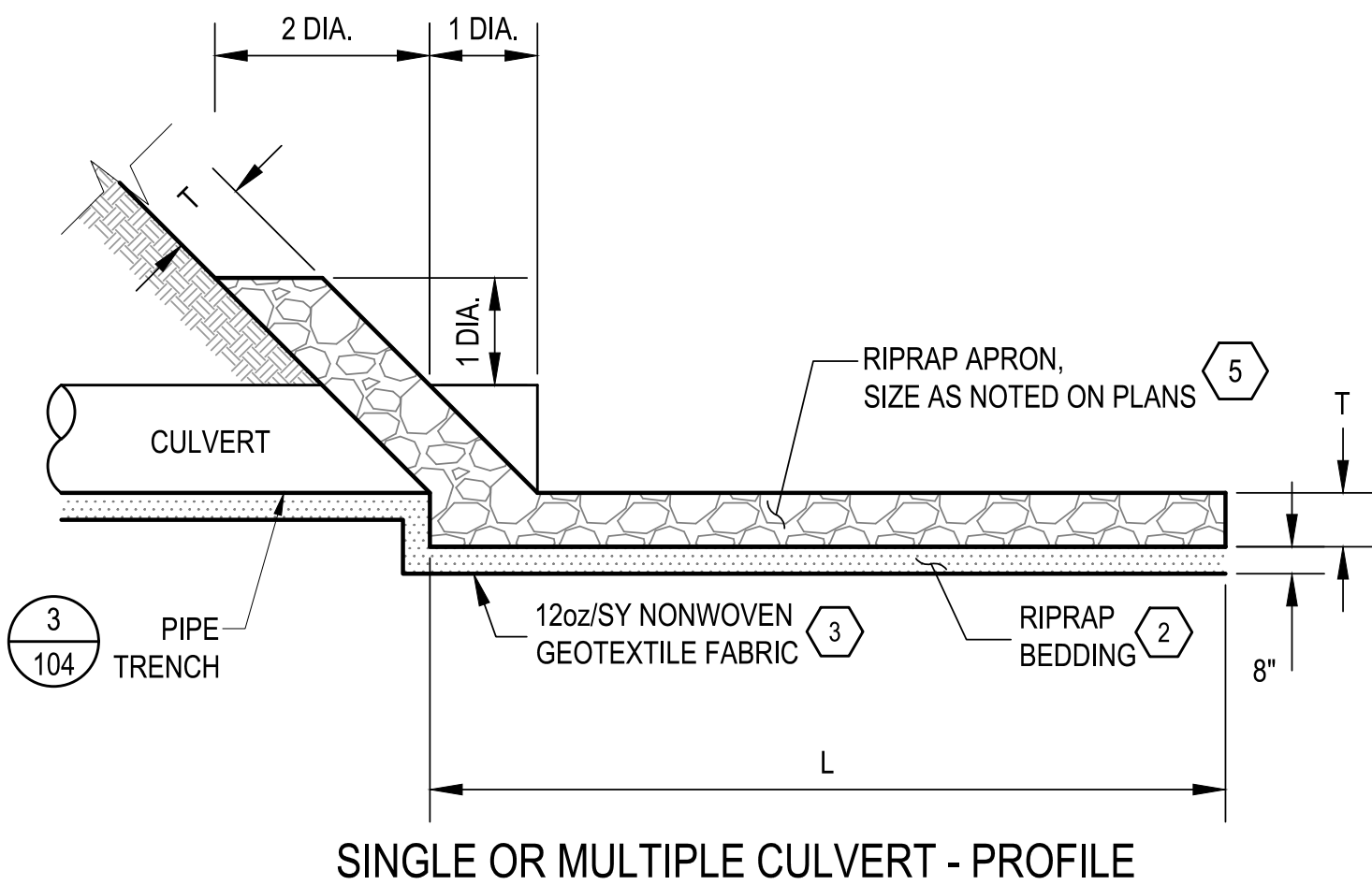
PIPE TRENCH DETAILS
SCALE: NTS

3
104



RIPRAP SPILLWAY DETAIL
SCALE: NTS

4
104



CULVERT OUTLET RIPRAP DETAIL
SCALE: NTS

2
104

CULVERT INLET/OUTLET KEY NOTES:

- ALL CULVERTS SHALL BE CORRUGATED METAL PIPE (CMP), SIZE AND LENGTH PER PLAN.
- GRANULAR BEDDING MATERIAL, TO BE COMPACTED TO 95% STANDARD PROCTOR.
- 12 OZ. NON-WOVEN GEOTEXTILE SHALL BE PLACED UNDER RIPRAP AT THE OUTLET OF THE CULVERT, TO PREVENT SCOUR.
- GENERAL FILL MATERIAL, IN EMBANKMENTS TO BE COMPACTED TO 95% STANDARD PROCTOR. GENERAL FILL MATERIAL UNDER ROADWAYS TO BE COMPACTED TO 95% MODIFIED PROCTOR.
- RIPRAP SHALL BE HAND PLACED ROCK COBBLE (D50 = 6 INCH MIN), PLACEMENT IS TO BE DONE IN A MANNER TO ENSURE INTERLOCKING AND PREVENT VOIDS. REFER TO RIPRAP SIZING TABLE FOR DIMENSIONS. REFER TO PLANS FOR MEAN DIAMETER (D50) AND SQUARE FOOTAGE AT EACH LOCATION.

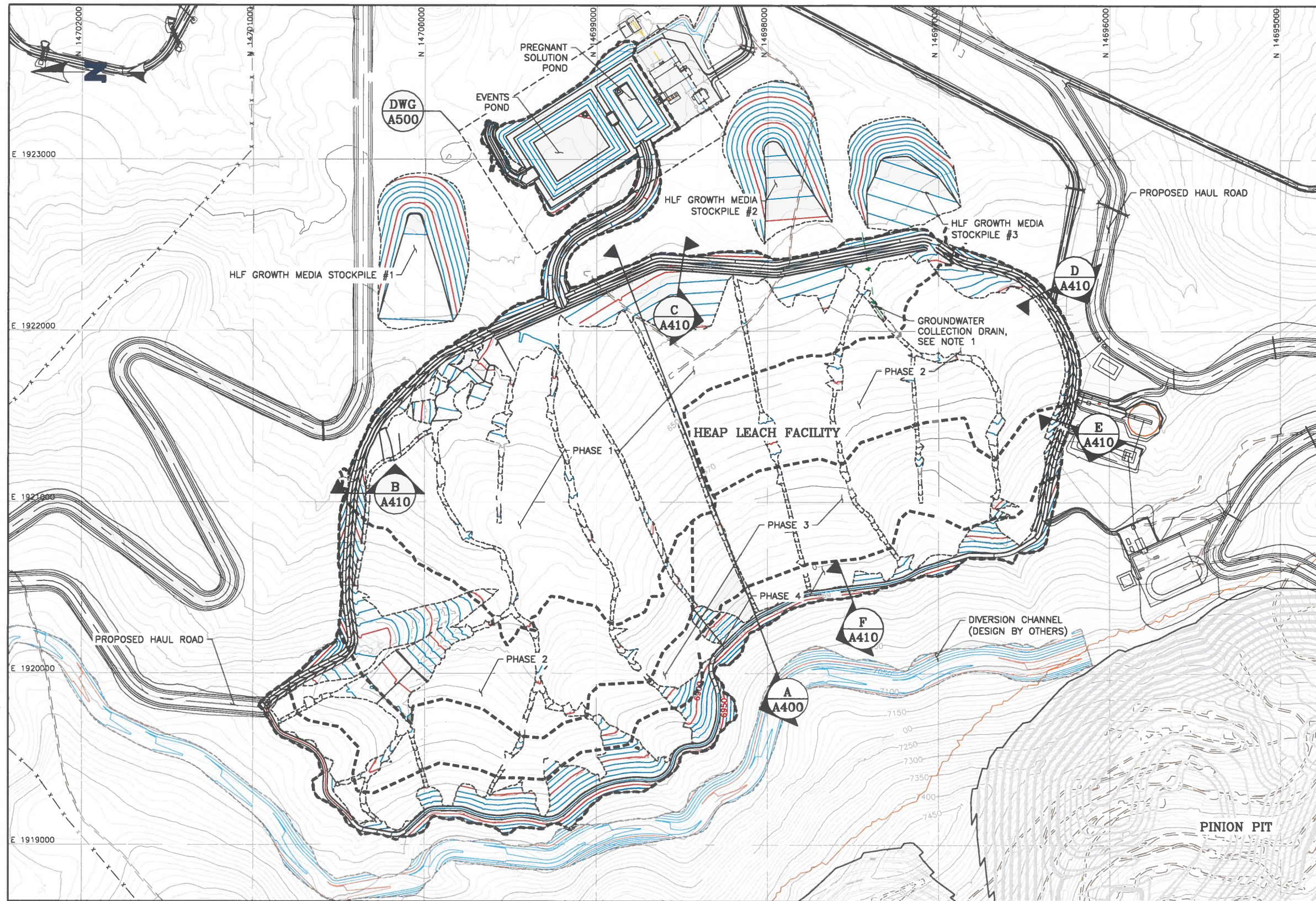
DO NOT SCALE 11x17 DRAWINGS

PRELIMINARY
NOT FOR CONSTRUCTION

GSV Gold Standard
VENTURES CORP.

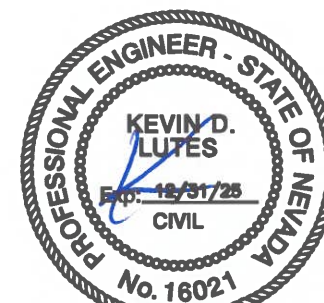
m3 ARCHITECTURE
ENGINEERING
CONSTRUCTION MANAGEMENT
MS3ENG.COM

SOUTH RAILROAD PROJECT FS
GENERAL CIVIL
NORTH ACCESS ROAD
SECTIONS AND DETAILS - SHT 2
PROJECT NO. M3-PN 185074.602
DWG NO. 000-CI-104
REV NO. P3
DATE 11 MAY 23



- LEGEND:**
- EXISTING GROUND CONTOURS
 - PROPOSED GROUND CONTOURS
 - PROPOSED GROUND CONTOURS (BY OTHERS)
 - EXISTING ROADS/TRAILS
 - PHASE BOUNDARY

- NOTES:**
- FINAL LOCATION AND EXTENTS OF GROUNDWATER COLLECTION DRAINS TO BE DETERMINED DURING CONSTRUCTION.
 - DXF FILES WILL BE PROVIDED TO CONTRACTOR IN LIEU OF SURVEY CONTROL.



12-11-2024

REFERENCE:
EXISTING GROUND TOPOGRAPHY CREATED IN THE UTM ZONE 11 (NAD27) COORDINATE SYSTEM FROM FILE Pinion Mine_DTM_UTM-11-USFT.dwg RECEIVED ON AUGUST 31, 2020 FROM GOLD STANDARD VENTURES.

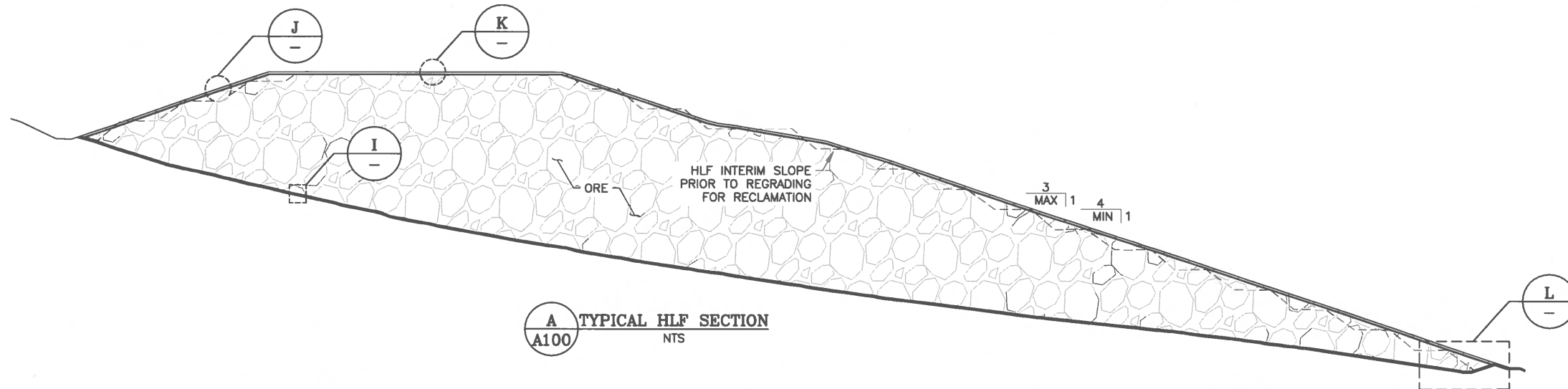
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1	08/28/23	RE-ISSUED FOR CONSTRUCTION	WKD	KDL
0	12/21/22	ISSUED FOR CONSTRUCTION	WKD	KDL

APPROVED BY: KDL
CHECKED BY: KDL
DESIGNED BY: WKD
DRAWN BY: WKD

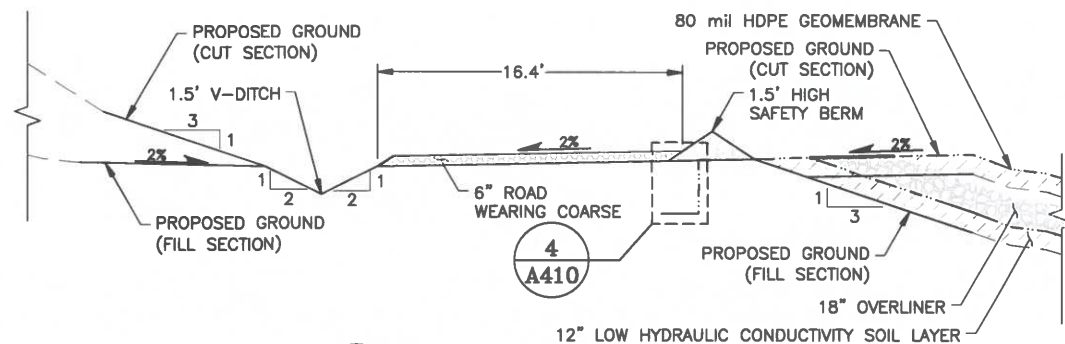
DISCLAIMER
NEWFIELDS PRODUCED THE INFORMATION PRESENTED ON THIS DRAWING THROUGH THE USE OF AVAILABLE TECHNICAL INFORMATION AND EXPERIENCE. RECEIVING THIS DRAWING DOES NOT GUARANTEE ANY RIGHTS TO EITHER SUCH TECHNICAL INFORMATION OR EXPERIENCE. ANY MODIFICATION OR ADAPTATION OF THE DATA OR DRAWING SHALL BE AT USER'S RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY TO NEWFIELDS.

NewFields		CLIENT	GOLD STANDARD VENTURES	
PROJECT		SOUTH RAILROAD PROJECT		
TITLE		HLF GRADING PLAN		
FILENAME		0440.001.002P		
DRAWING NO.		A100		
REVISION		2		

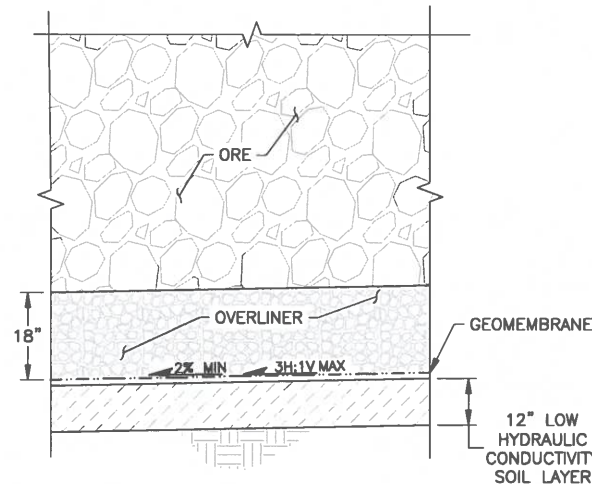
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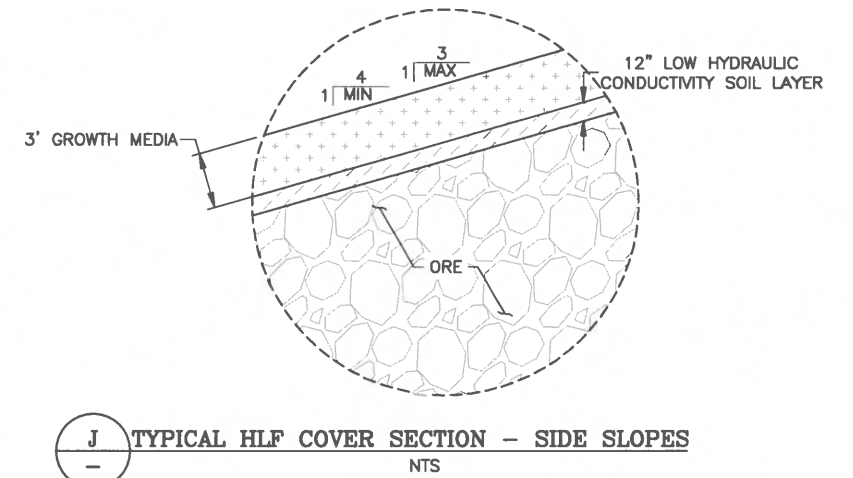
A TYPICAL HLF SECTION
A100 NTS



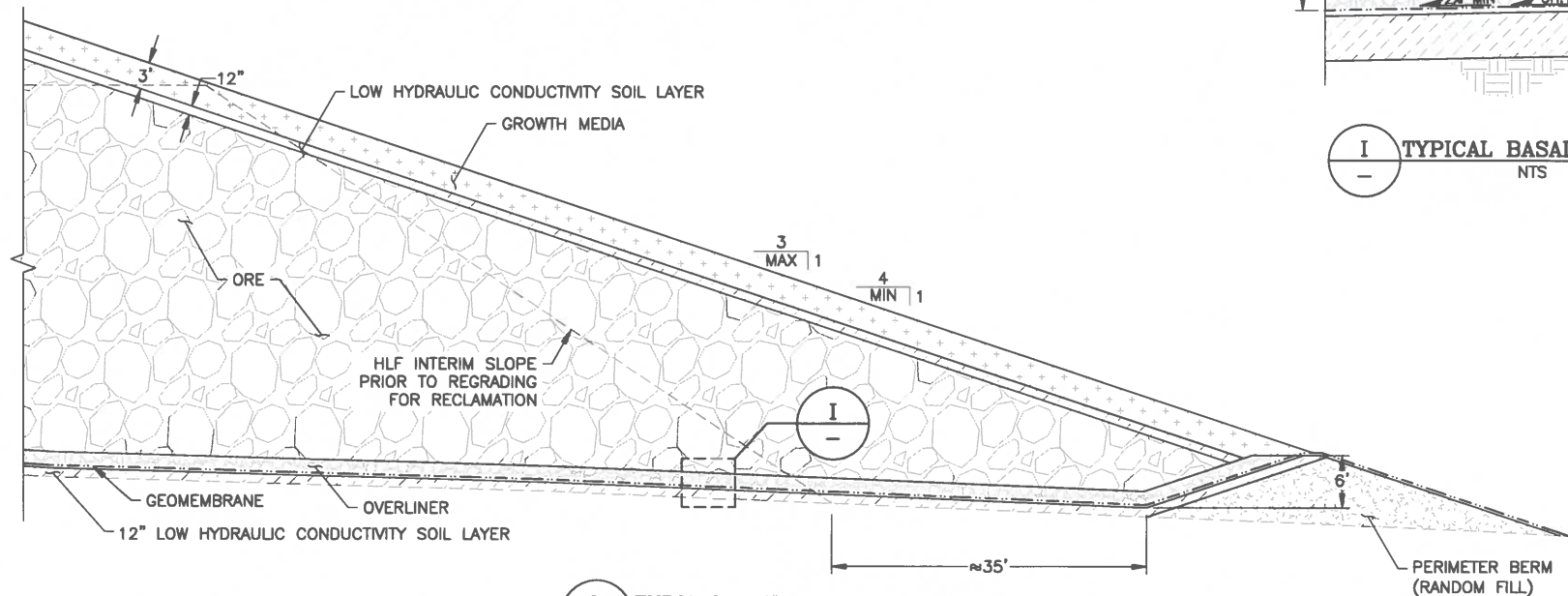
H UPPER PERIMETER ROAD PHASE 1
H110 NTS



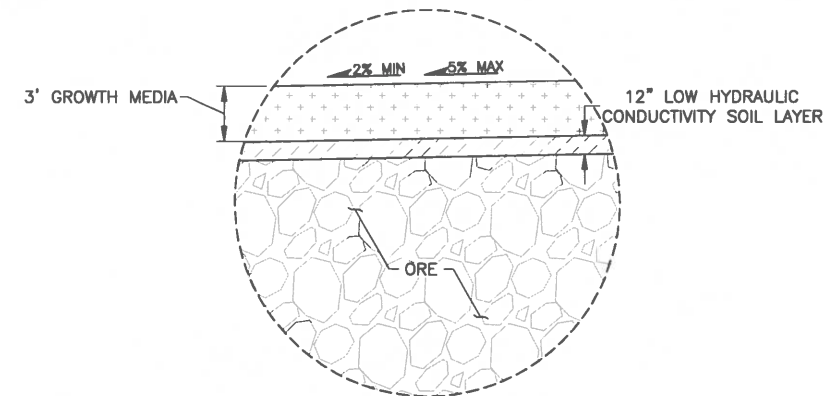
I TYPICAL BASAL SECTION
I NTS



J TYPICAL HLF COVER SECTION - SIDE SLOPES
J NTS



L TYPICAL OUTER SLOPE DETAIL
L NTS



K TYPICAL HLF COVER SECTION - TOP
K NTS

NOTES:

1. DRAINAGE COLLECTION PIPE NETWORK TO BE INSTALLED IN OVERLINER LAYER.

REV	DATE	DESCRIPTION	TECH	ENG
1	08/28/23	RE-ISSUED FOR CONSTRUCTION	WKD	KDL
0	12/21/22	ISSUED FOR CONSTRUCTION	WKD	KDL

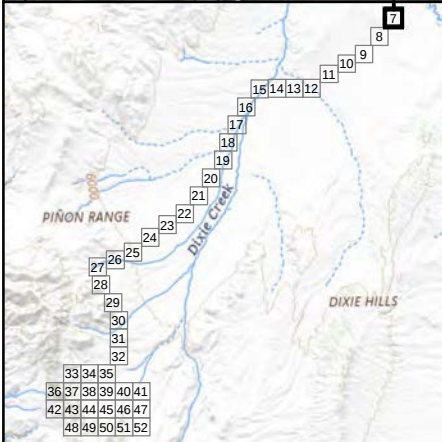
APPROVED BY:	KDL
CHECKED BY:	KDL
DESIGNED BY:	WKD
DRAWN BY:	WKD

DISCLAIMER
NEWFIELDS PRODUCED THE INFORMATION PRESENTED ON THIS DRAWING THROUGH THE USE OF AVAILABLE TECHNICAL INFORMATION AND EXPERIENCE. RECEIVING THIS DRAWING DOES NOT GUARANTEE ANY RIGHTS TO EITHER SUCH TECHNICAL INFORMATION OR EXPERIENCE. ANY MODIFICATION OR ADAPTATION OF THE DATA OR DRAWING SHALL BE AT USER'S RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY TO NEWFIELDS.

NewFields	CLIENT	GOLD STANDARD VENTURES
PROJECT	SOUTH RAILROAD PROJECT	
TITLE	HLF SECTIONS AND DETAILS (SHEET 1 OF 2)	
FILENAME	0440.001.005D	REVISION
DRAWING NO.	A400	1



12-11-2024



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



Wetland



Pond



Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

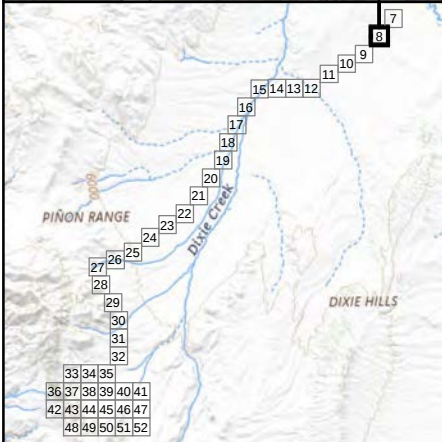
Mt. Diablo Meridian | T32N, R55E, S15-16

Lat.: 40.6606

Long.: -115.7801

Sheet: 7 of 52

July 2025



 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

 Intermittent Stream

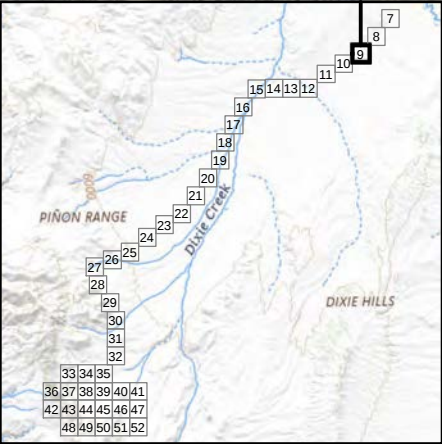
 Perennial Stream

 Wetland

 Pond

 Fill Footprint

0100200400 Feet 1 inch = 400 feet1:4,800		
Applicant: Gold Standard Ventures		
File No.: SPK-2018-00673		
Waterway: Humboldt River		
Proposed Activity: South Railroad Project		
Mt. Diablo Meridian T32N, R55E, S16-17, 21-22		
Lat.: 40.6516	Long.: -115.79	
Sheet: 8 of 52	July 2025	



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

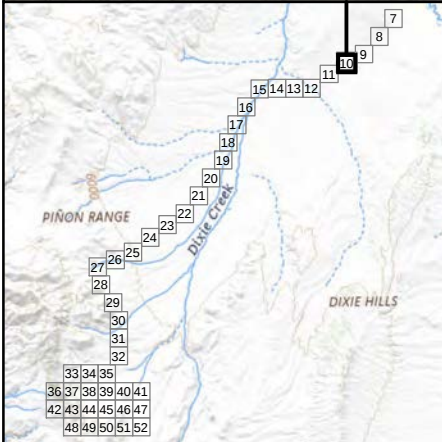
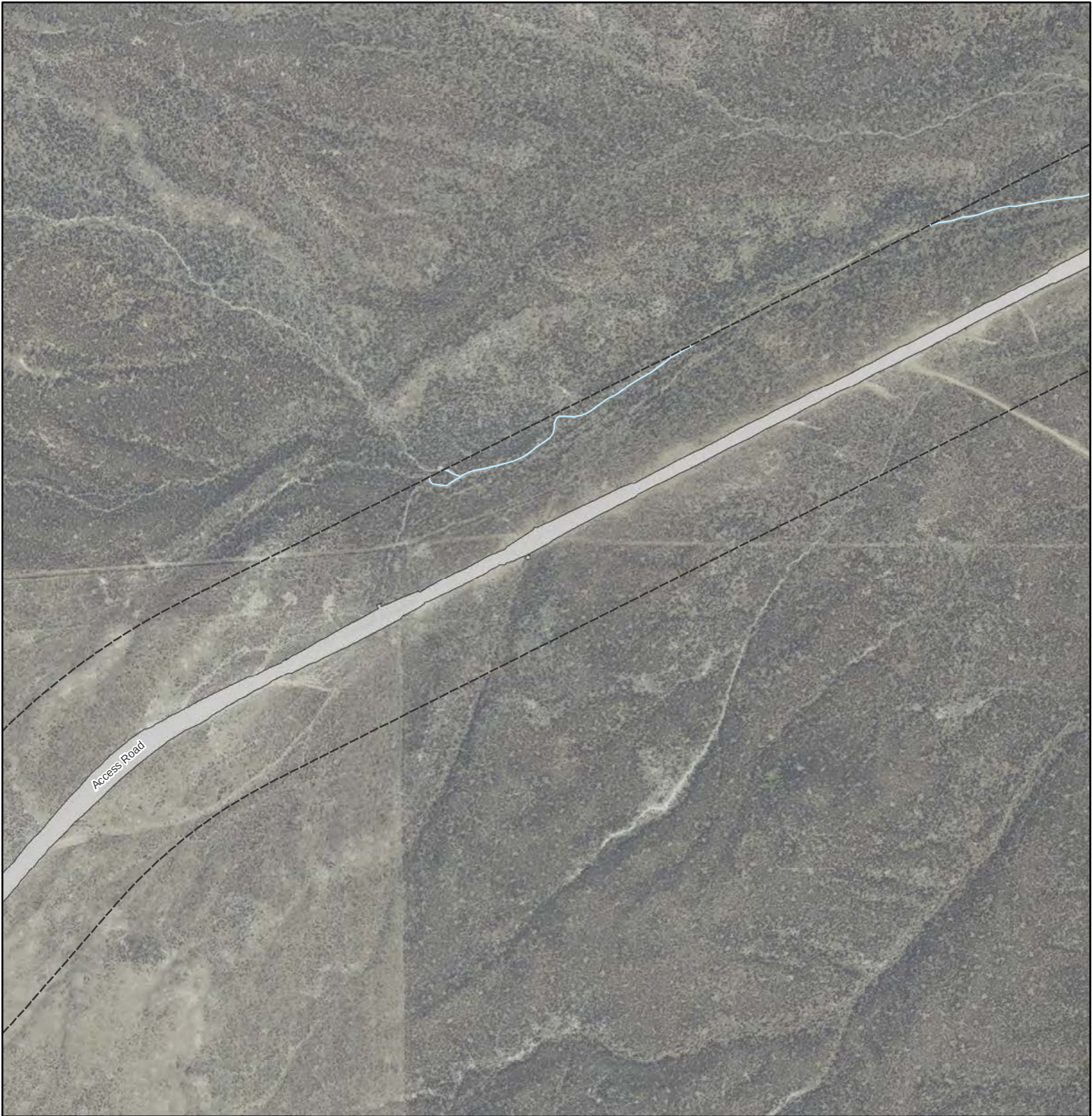
Mt. Diablo Meridian | T32N, R55E, S20-21

Lat.: 40.6426

Long.: -115.8005

Sheet: 9 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

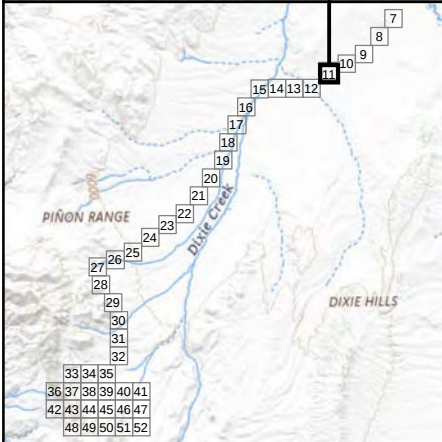
Mt. Diablo Meridian | T32N, R55E, S19-20, 29-30

Lat.: 40.6377

Long.: -115.8122

Sheet: 10 of 52

July 2025



 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

 Intermittent Stream

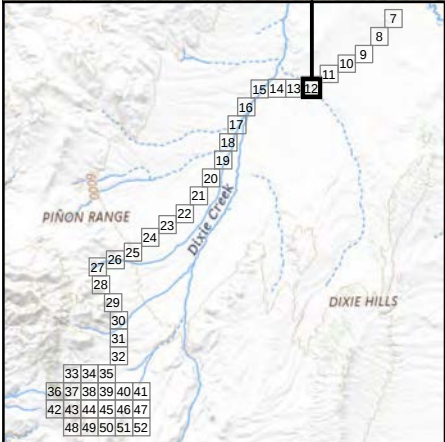
 Perennial Stream

 Wetland

 Pond

 Fill Footprint

0 100 200 400  Feet 1 inch = 400 feet 1:4,800		
Applicant: Gold Standard Ventures		
File No.: SPK-2018-00673		
Waterway: Humboldt River		
Proposed Activity: South Railroad Project		
Mt. Diablo Meridian T32N, R55E, S19, 30		
Lat.: 40.6326	Long.: -115.824	
Sheet: 11 of 52	July 2025	



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



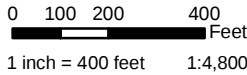
Wetland



Pond



Fill Footprint



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

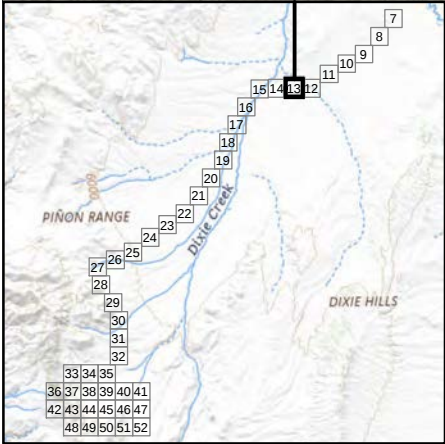
Mt. Diablo Meridian | T32N, R54E, S25, 36; T32N, R55E, S30-31

Lat.: 40.6254

Long.: -115.8358

Sheet: 12 of 52

July 2025



 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

 Intermittent Stream

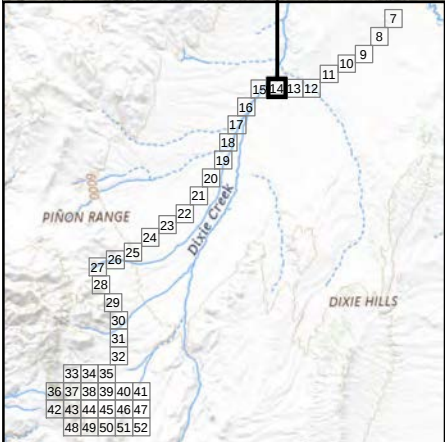
 Perennial Stream

 Wetland

 Pond

 Fill Footprint

0 100 200 400 Feet 1 inch = 400 feet 1:4,800			
Applicant: Gold Standard Ventures			
File No.: SPK-2018-00673			
Waterway: Humboldt River			
Proposed Activity: South Railroad Project			
Mt. Diablo Meridian T32N, R54E, S25-26, 35-36			
Lat.: 40.6255		Long.: -115.8475	
Sheet: 13 of 52		July 2025	



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



Wetland



Pond



Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

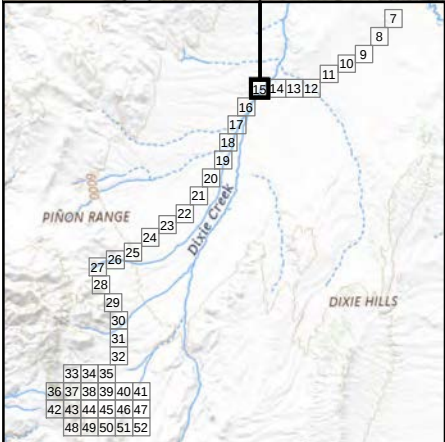
Mt. Diablo Meridian | T32N, R54E, S26, 35

Lat.: 40.6256

Long.: -115.8592

Sheet: 14 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



Wetland



Pond



Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

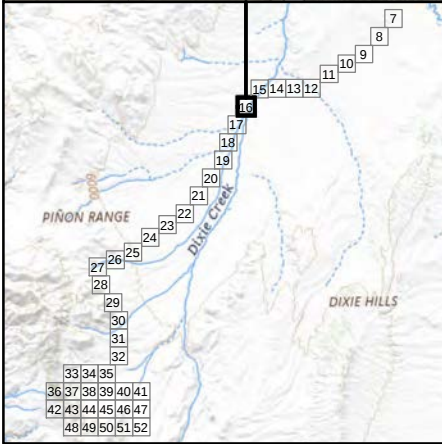
Mt. Diablo Meridian | T32N, R54E, S26-27, 34-35

Lat.: 40.6253

Long.: -115.8708

Sheet: 15 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

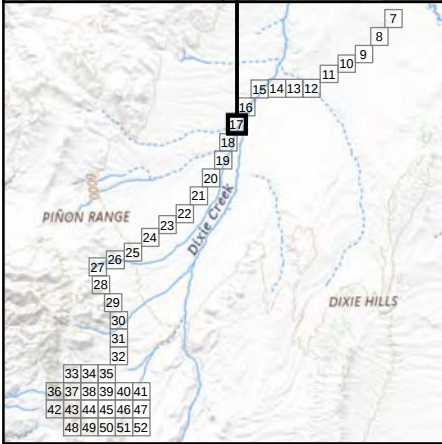
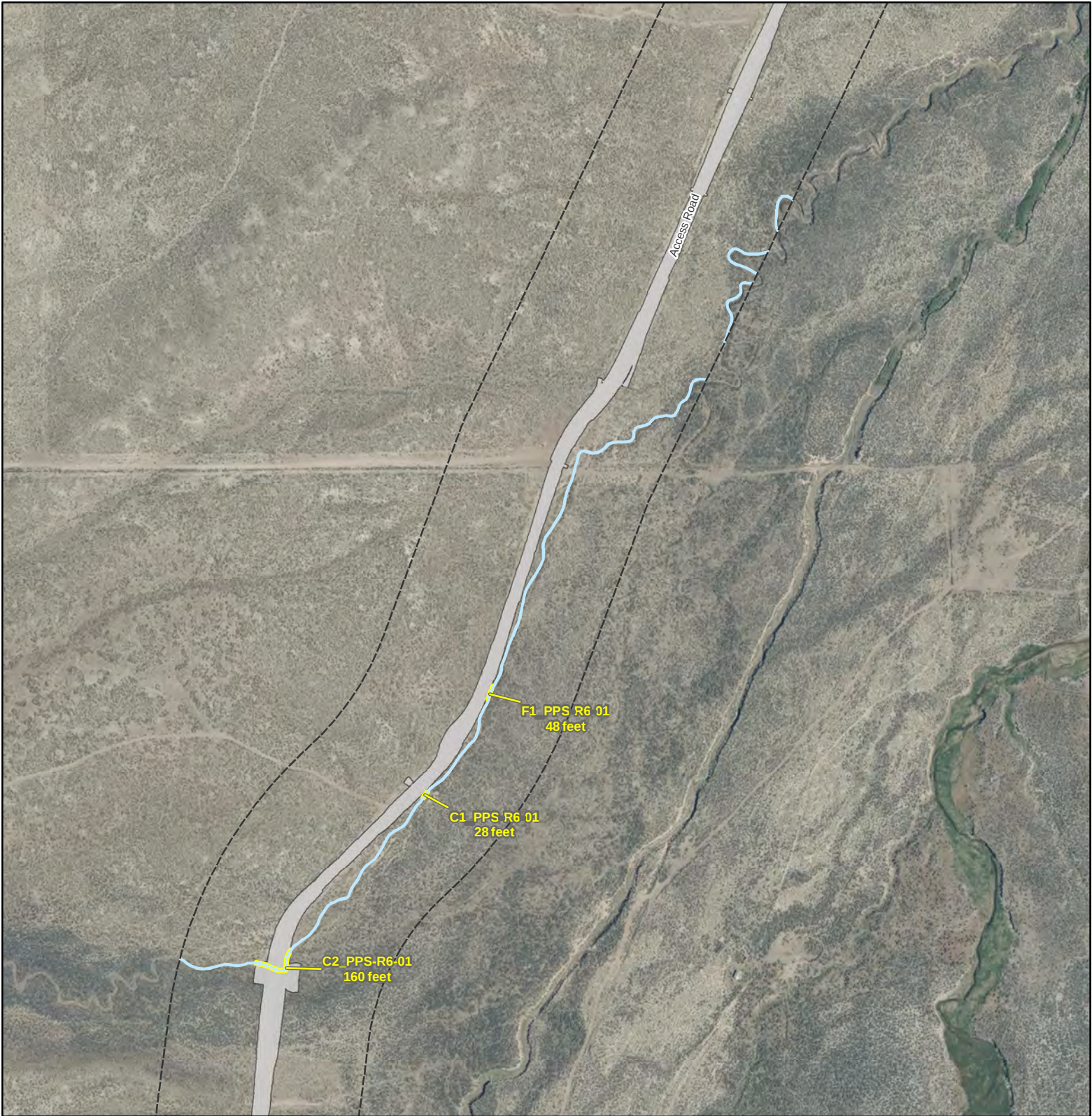
Mt. Diablo Meridian | T32N, R54E, S34

Lat.: 40.6163

Long.: -115.8801

Sheet: 16 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

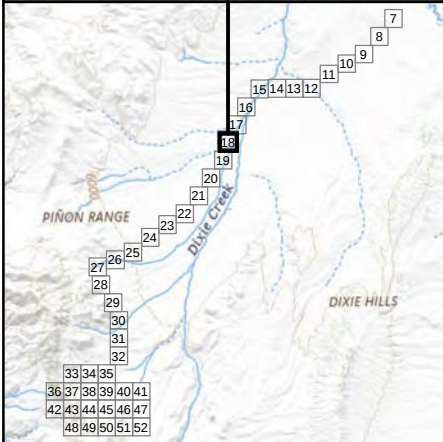
Waterway: Humboldt River

Proposed Activity: South Railroad Project

Mt. Diablo Meridian | T31N, R54E, S3-4; T32N, R54E, 33-34

Lat.: 40.6073 Long.: -115.8864

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Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

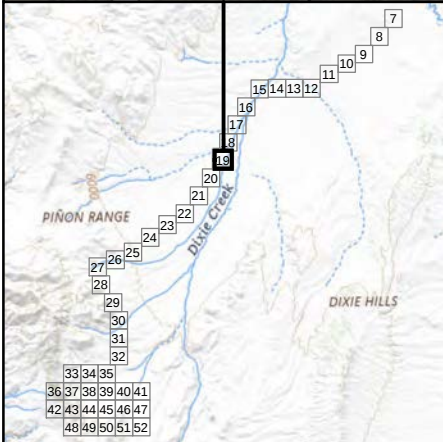
Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures	
File No.: SPK-2018-00673	
Waterway: Humboldt River	
Proposed Activity: South Railroad Project	
Mt. Diablo Meridian T31N, R54E, S3-4	
Lat.: 40.5982	Long.: -115.8925
Sheet: 18 of 52	July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

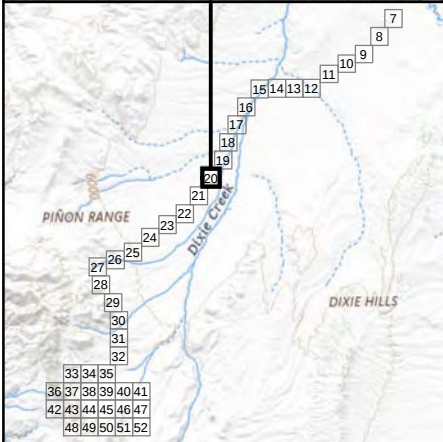
Mt. Diablo Meridian | T31N, R54E, S3-4, 9-10

Lat.: 40.5891

Long.: -115.8958

Sheet: 19 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

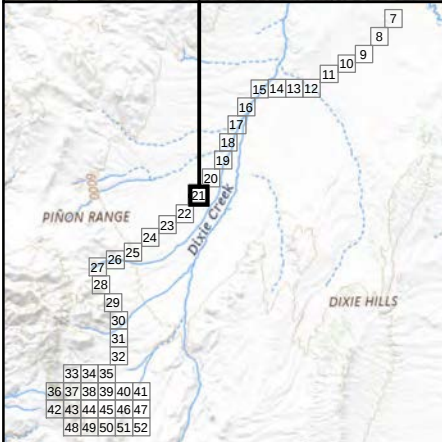
Mt. Diablo Meridian | T31N, R54E, S9, 16

Lat.: 40.5801

Long.: -115.9044

Sheet: 20 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

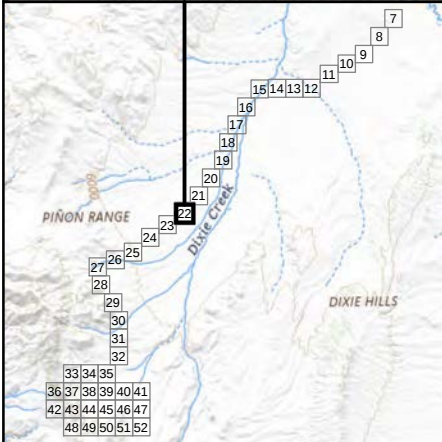
Mt. Diablo Meridian | T31N, R54E, S16-17

Lat.: 40.571

Long.: -115.9126

Sheet: 21 of 52

July 2025



 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

 Intermittent Stream

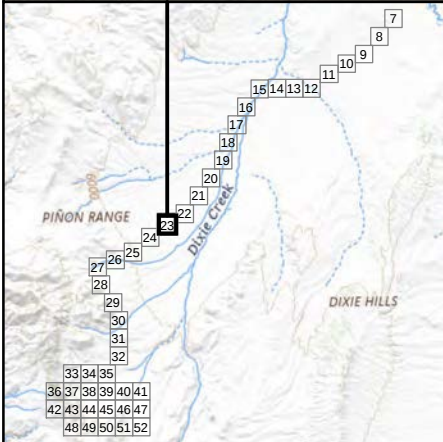
 Perennial Stream

 Wetland

 Pond

 Fill Footprint

0100200400Feet 1 inch = 400 feet1:4,800		
Applicant: Gold Standard Ventures		
File No.: SPK-2018-00673		
Waterway: Humboldt River		
Proposed Activity: South Railroad Project		
Mt. Diablo Meridian T31N, R54E, S17, 20		
Lat.: 40.562	Long.: -115.9222	
Sheet: 22 of 52	July 2025	



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

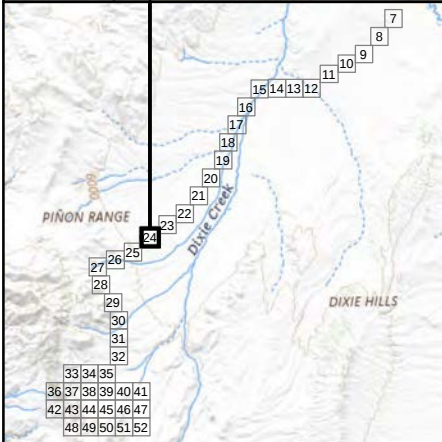
Wetland

Pond

Fill Footprint

1 inch = 400 feet 1:4,800

Applicant: Gold Standard Ventures	
File No.: SPK-2018-00673	
Waterway: Humboldt River	
Proposed Activity: South Railroad Project	
Mt. Diablo Meridian T31N, R54E, S19-20	
Lat.: 40.5565	Long.: -115.934
Sheet: 23 of 52	July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

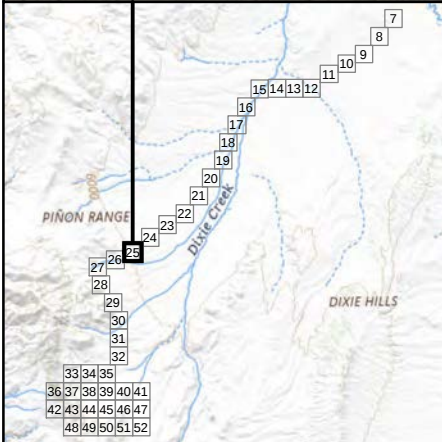
Mt. Diablo Meridian | T31N, R53E, S24-25; T31N, 54E, S19, 30

Lat.: 40.55

Long.: -115.9458

Sheet: 24 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

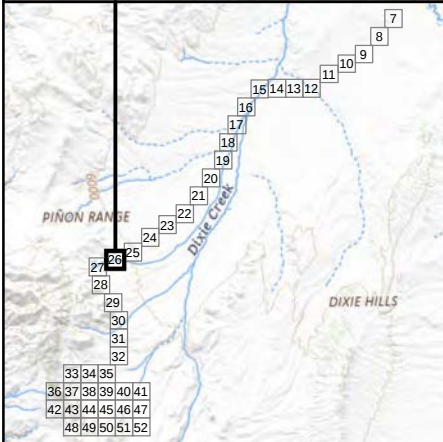
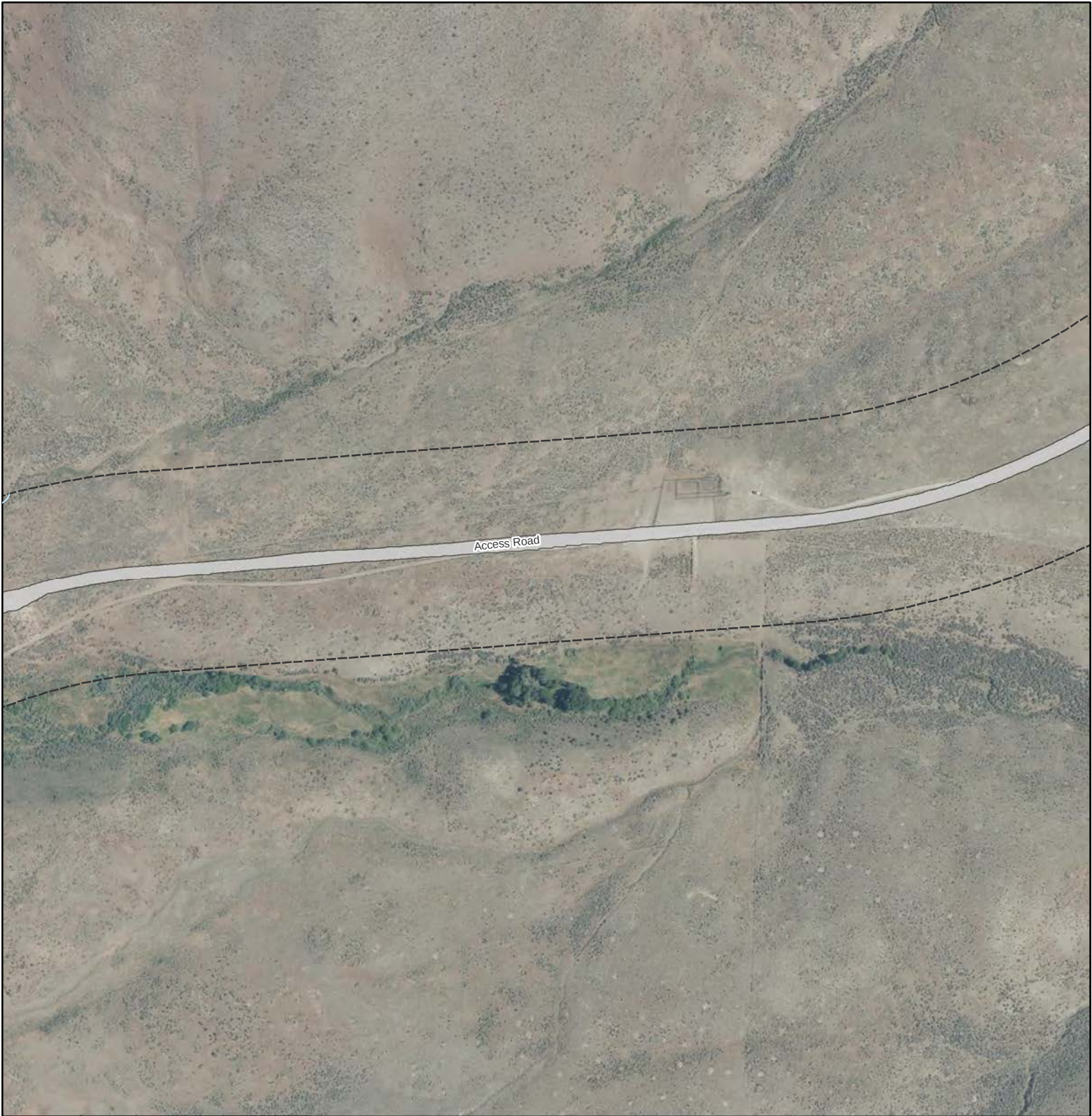
Mt. Diablo Meridian | T31N, R53E, S25

Lat.: 40.5424

Long.: -115.9575

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July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

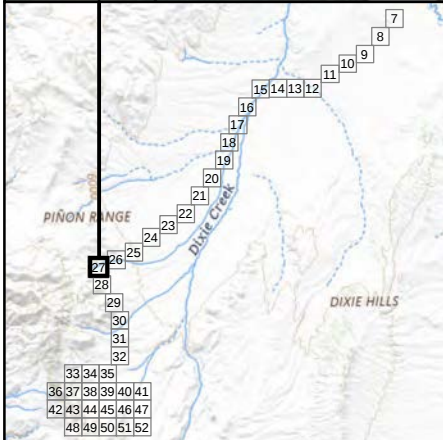
Mt. Diablo Meridian | T31N, R53E, S25-26, 35-36

Lat.: 40.5388

Long.: -115.9693

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July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

-  Jurisdictional Impact (Pending USACE review)
-  Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

-  Ephemeral Stream
-  Intermittent Stream
-  Perennial Stream
-  Wetland
-  Pond
-  Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

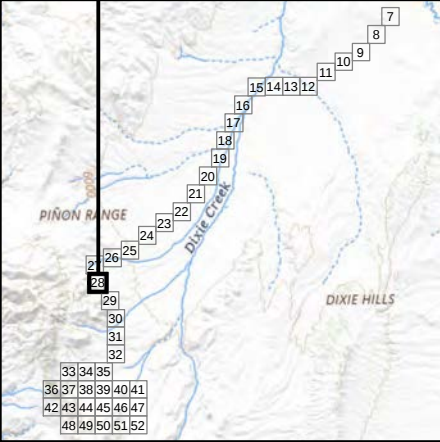
Mt. Diablo Meridian | T31N, R53E, S26, 35

Lat.: 40.5352

Long.: -115.981

Sheet: 27 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

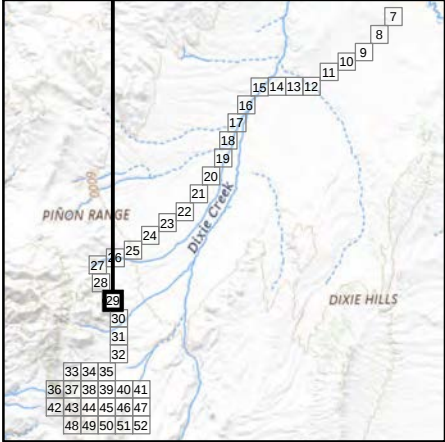
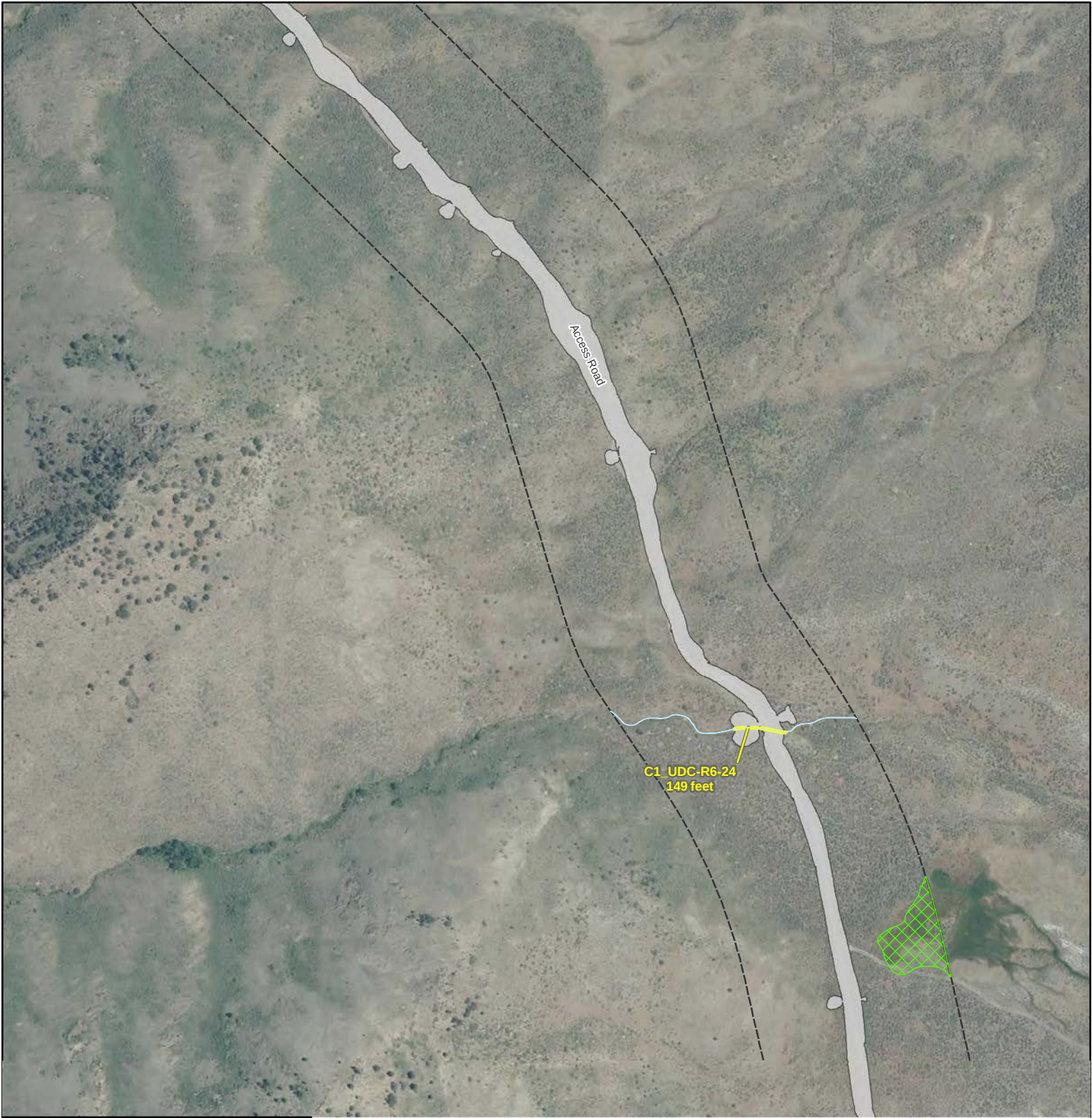
Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures	
File No.: SPK-2018-00673	
Waterway: Humboldt River	
Proposed Activity: South Railroad Project	
Mt. Diablo Meridian T31N, R53E, S35	
Lat.: 40.5261	Long.: -115.9789
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Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



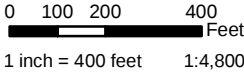
Wetland



Pond



Fill Footprint



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

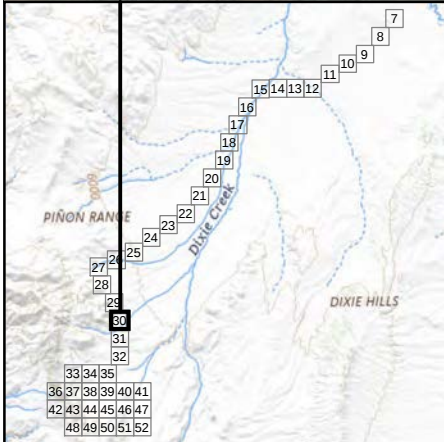
Mt. Diablo Meridian | T30N, R53E, S1-2; T31N, R53E, S35-36

Lat.: 40.5169

Long.: -115.9712

Sheet: 29 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



Wetland



Pond



Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

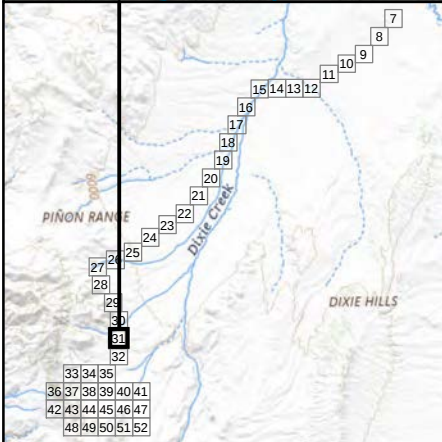
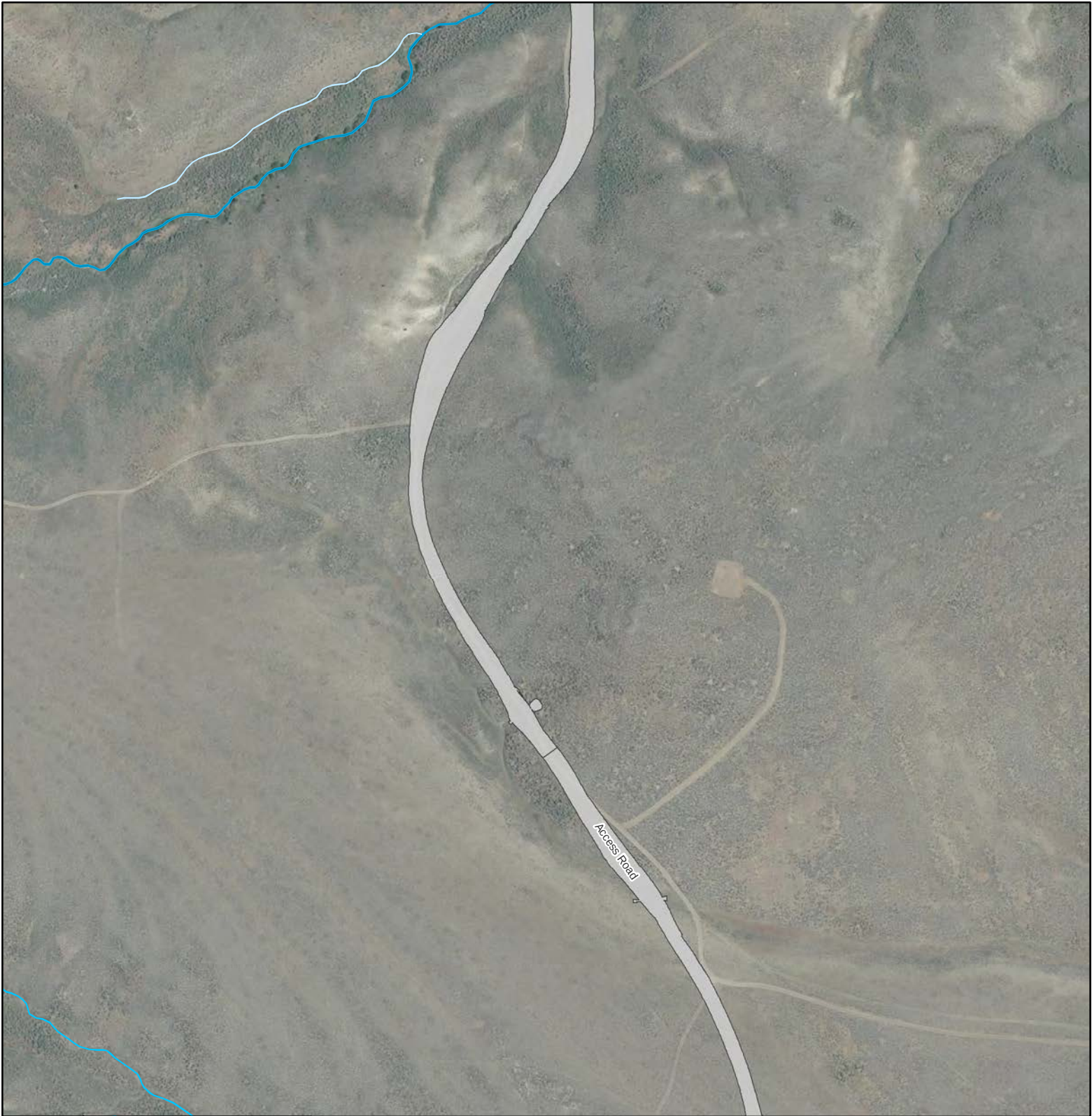
Mt. Diablo Meridian | T30N, R53E, S1-2, 11-12

Lat.: 40.5077

Long.: -115.9672

Sheet: 30 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



Wetland



Pond



Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

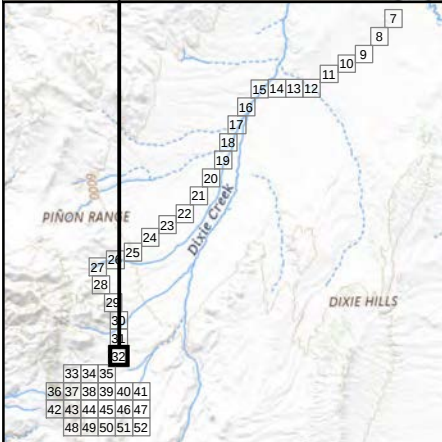
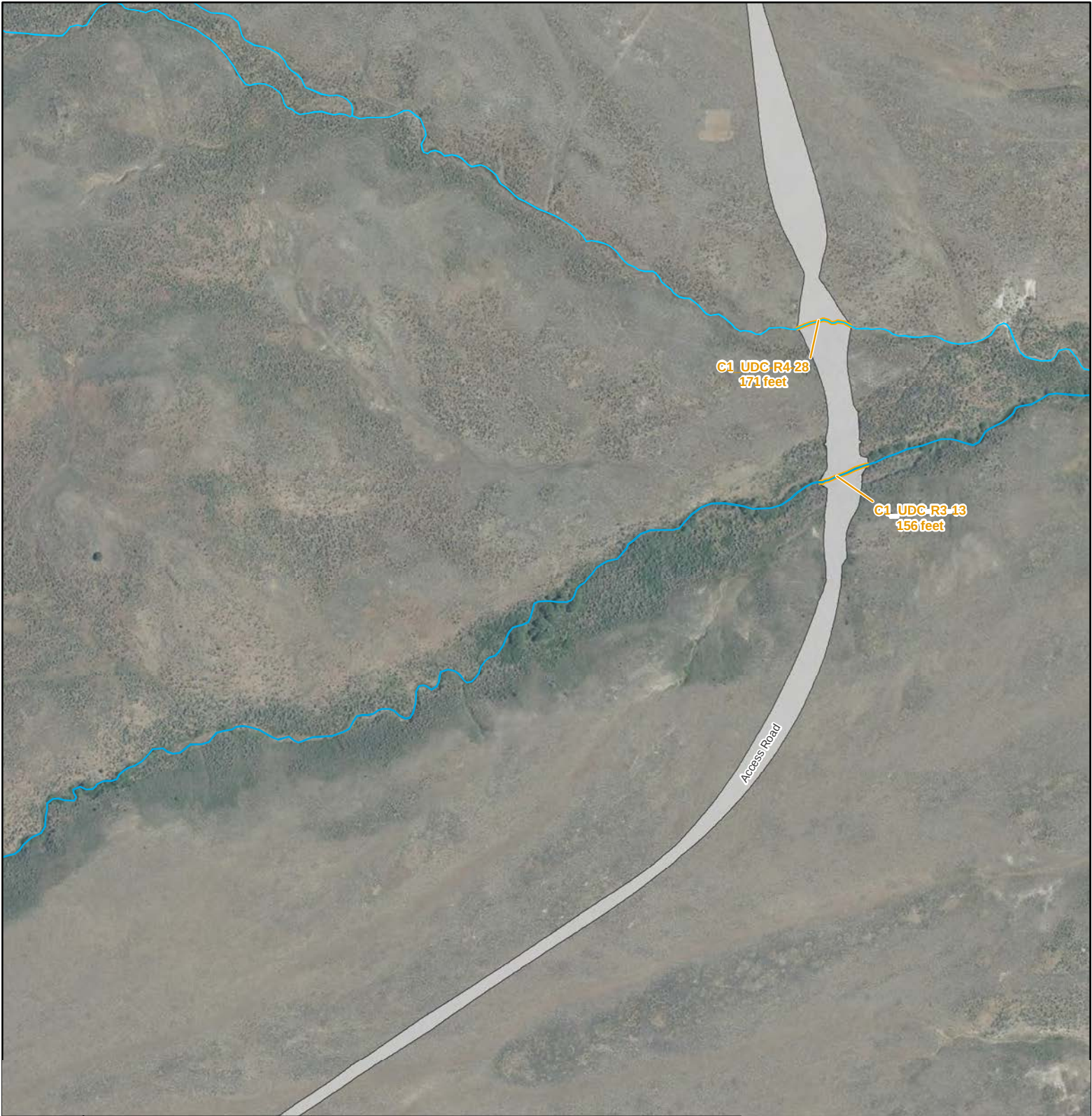
Mt. Diablo Meridian | T30N, R53E, S11-12

Lat.: 40.4986

Long.: -115.9674

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July 2025



 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

 Intermittent Stream

 Perennial Stream

 Wetland

 Pond

 Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

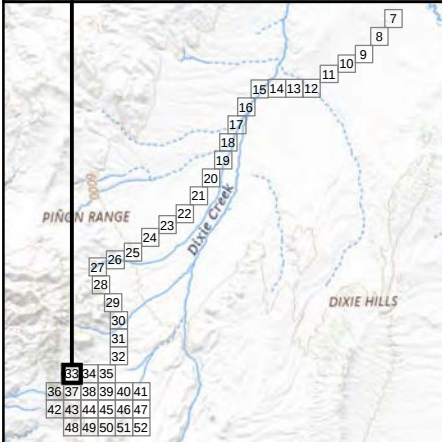
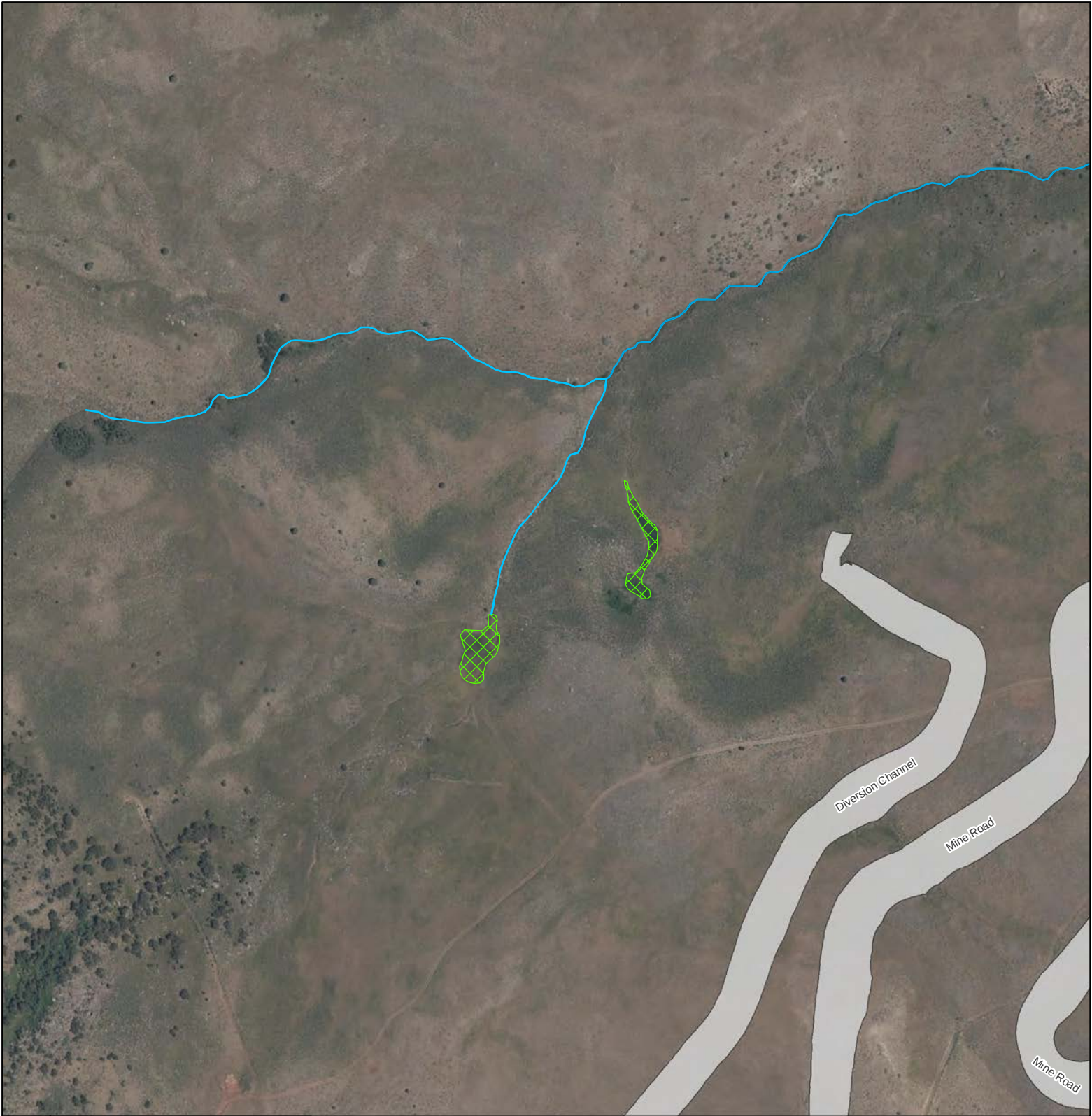
File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

Mt. Diablo Meridian | T30N, R53E, S11-14

Lat.: 40.4895	Long.: -115.9675
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Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



Wetland



Pond



Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

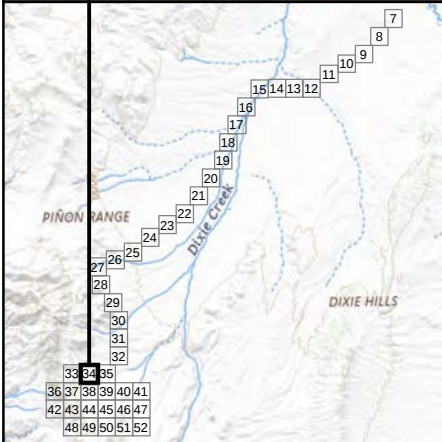
Mt. Diablo Meridian | T30N, R53E, S15-16, 21-22

Lat.: 40.4807

Long.: -115.9992

Sheet: 33 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

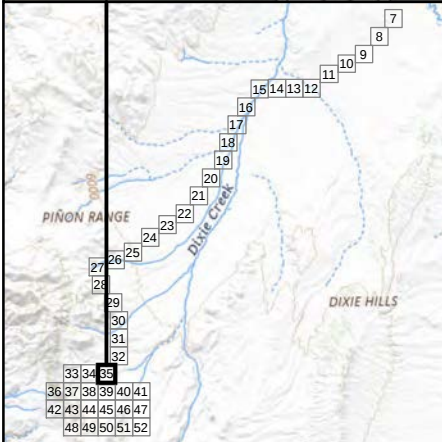
- Jurisdictional Impact (Pending USACE review)
- Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Wetland
- Pond
- Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800

Applicant: Gold Standard Ventures	
File No.: SPK-2018-00673	
Waterway: Humboldt River	
Proposed Activity: South Railroad Project	
Mt. Diablo Meridian T30N, R53E, S14-15, 22-23	
Lat.: 40.4806	Long.: -115.9876
Sheet: 34 of 52	July 2025



 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

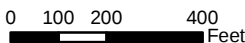
 Intermittent Stream

 Perennial Stream

 Wetland

 Pond

 Fill Footprint



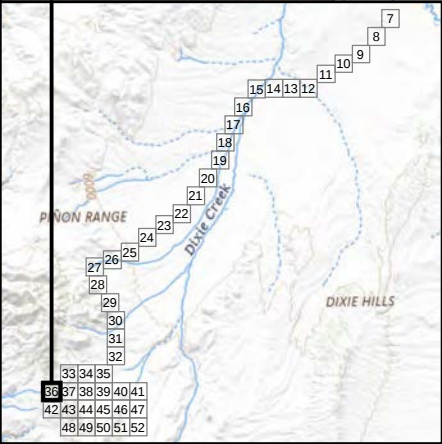
0 100 200 400 Feet

1 inch = 400 feet 1:4,800



N
W E
S

Applicant: Gold Standard Ventures	
File No.: SPK-2018-00673	
Waterway: Humboldt River	
Proposed Activity: South Railroad Project	
Mt. Diablo Meridian T30N, R53E, S14, 23	
Lat.: 40.4805	Long.: -115.9759
Sheet: 35 of 52	July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

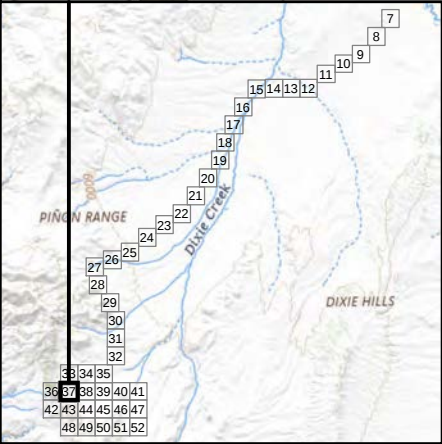
Mt. Diablo Meridian | T30N, R53E, S21

Lat.: 40.4716

Long.: -116.011

Sheet: 36 of 52

July 2025



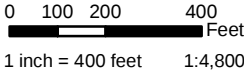
Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

- Jurisdictional Impact (Pending USACE review)
- Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Wetland
- Pond
- Fill Footprint



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

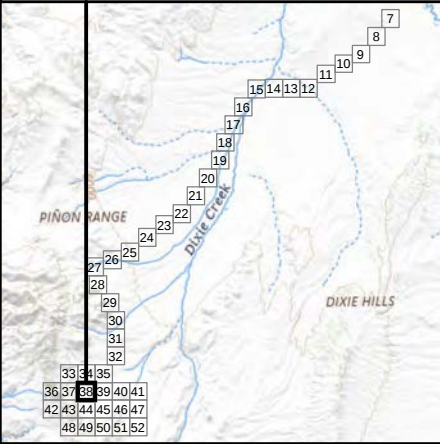
Mt. Diablo Meridian | T30N, R53E, S21-22

Lat.: 40.4715

Long.: -115.9994

Sheet: 37 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



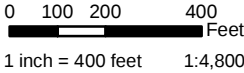
Wetland



Pond



Fill Footprint



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

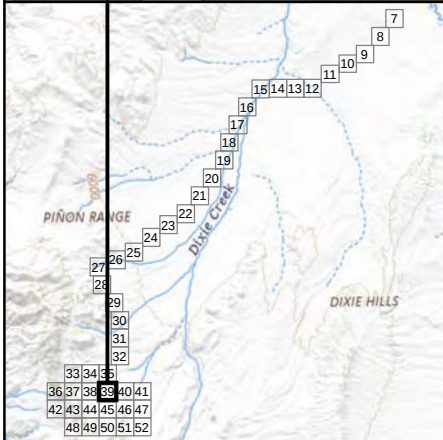
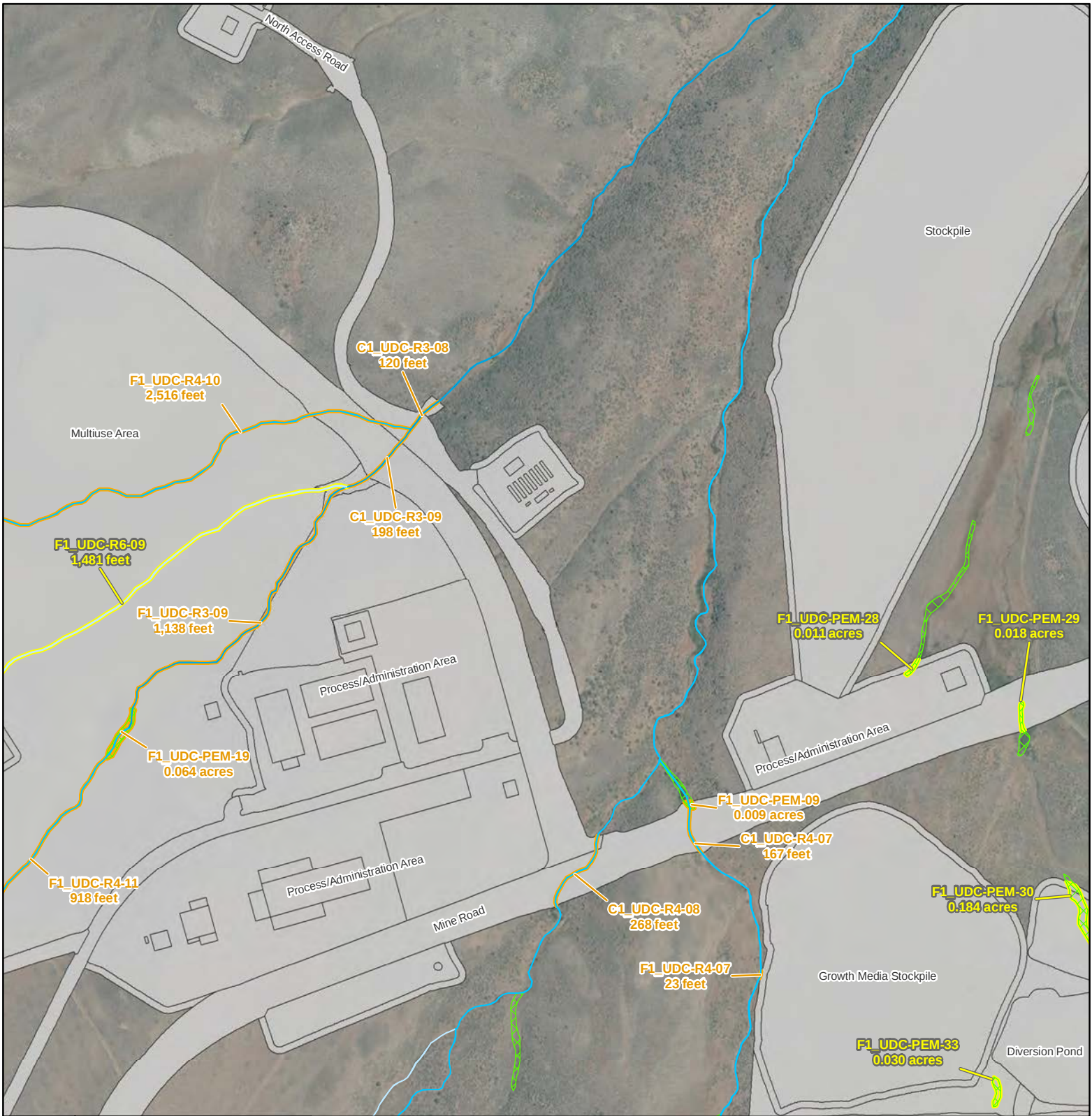
Mt. Diablo Meridian | T30N, R53E, S22-23

Lat.: 40.4714

Long.: -115.9877

Sheet: 38 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



Wetland



Pond



Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

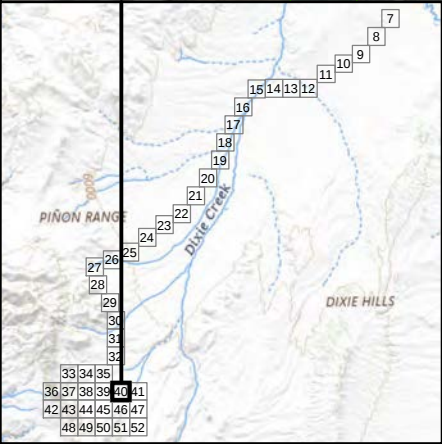
Mt. Diablo Meridian | T30N, R53E, S23

Lat.: 40.4713

Long.: -115.9761

Sheet: 39 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

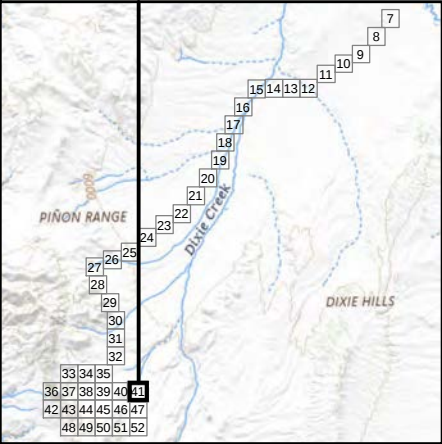
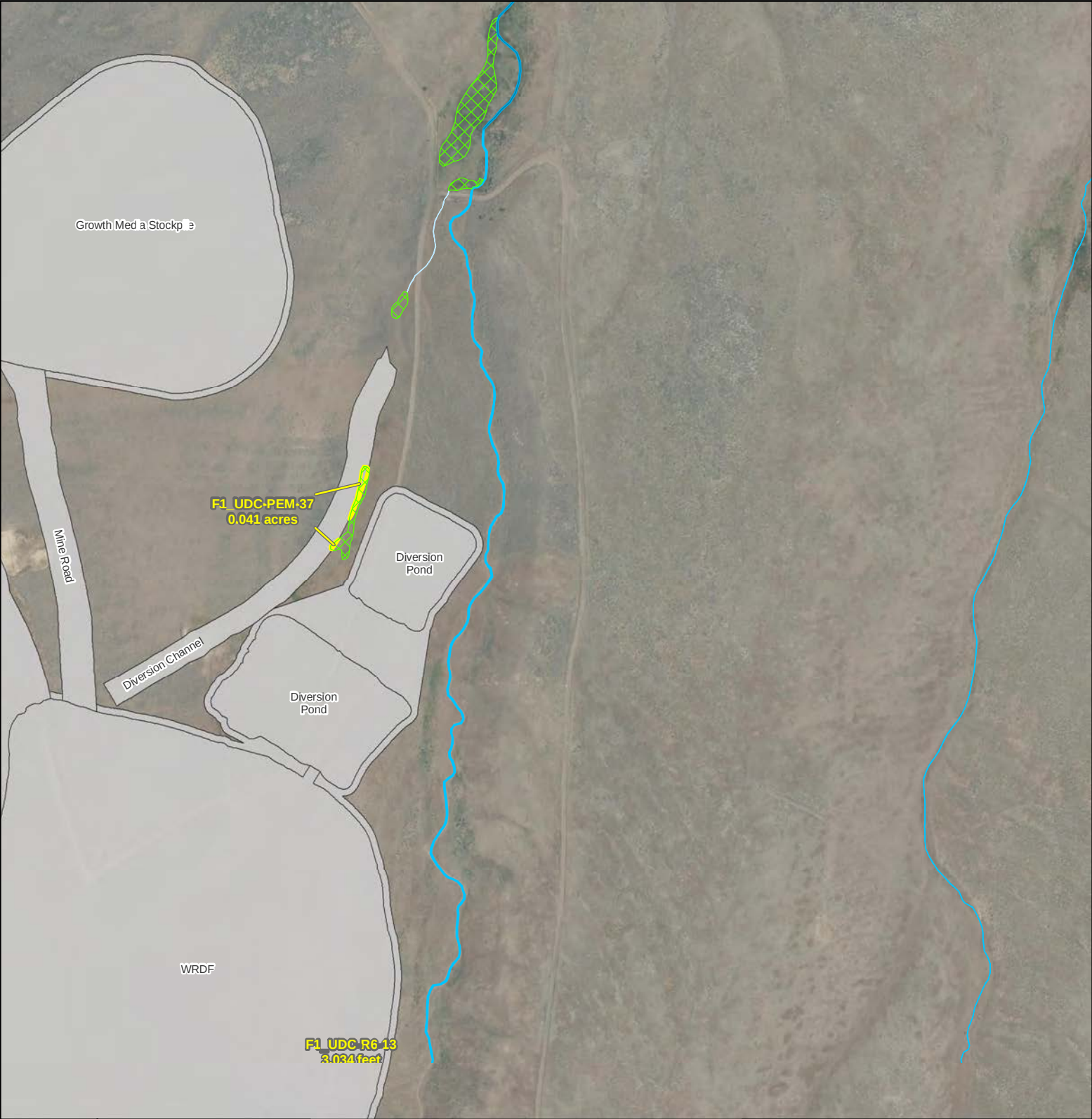
Mt. Diablo Meridian | T30N, R53E, S23-24

Lat.: 40.4712

Long.: -115.9644

Sheet: 40 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

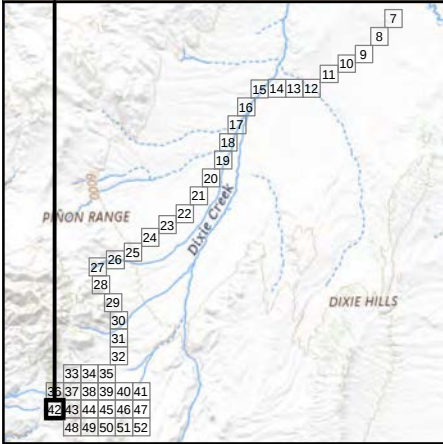
Mt. Diablo Meridian | T30N, R53E, S24

Lat.: 40.4711

Long.: -115.9528

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July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



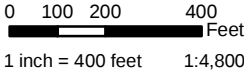
Wetland



Pond



Fill Footprint



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

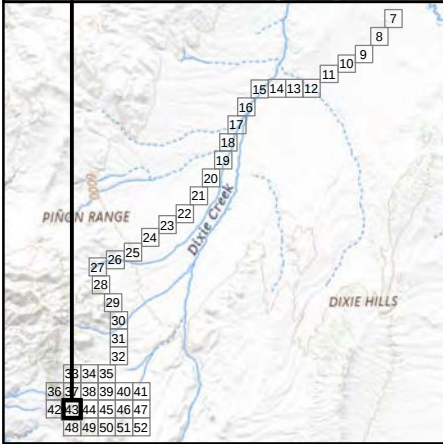
Mt. Diablo Meridian | T30N, R53E, S21, 28

Lat.: 40.4625

Long.: -116.0112

Sheet: 42 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



Wetland



Pond



Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

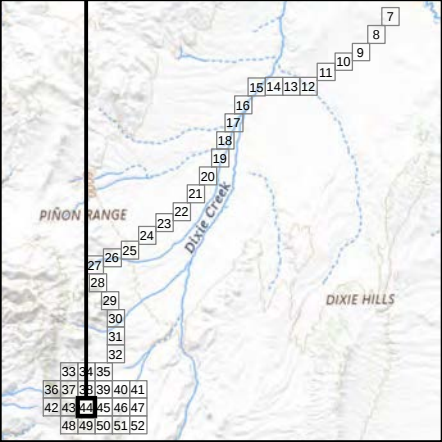
Mt. Diablo Meridian | T30N, R53E, S21-22, 27-28

Lat.: 40.4624

Long.: -115.9995

Sheet: 43 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800

Applicant: Gold Standard Ventures

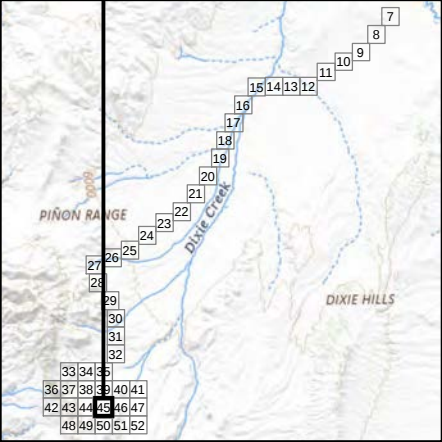
File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

Mt. Diablo Meridian | T30N, R53E, S22-23, 26-27

Lat.: 40.4623	Long.: -115.9879
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Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



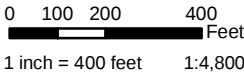
Wetland



Pond



Fill Footprint



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

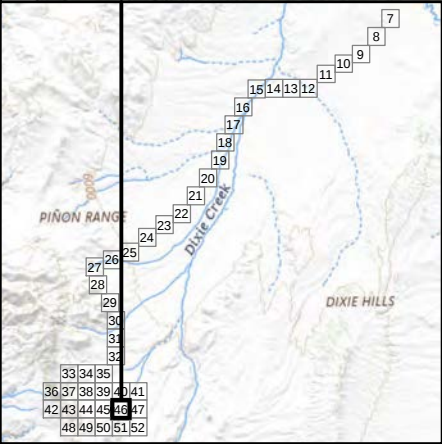
Mt. Diablo Meridian | T30N, R53E, S23, 26

Lat.: 40.4622

Long.: -115.9762

Sheet: 45 of 52

July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0 100 200 400 Feet
1 inch = 400 feet 1:4,800

Applicant: Gold Standard Ventures

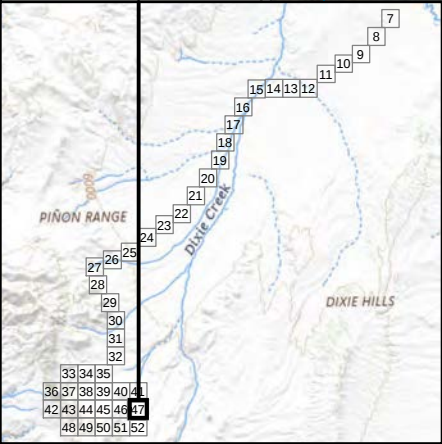
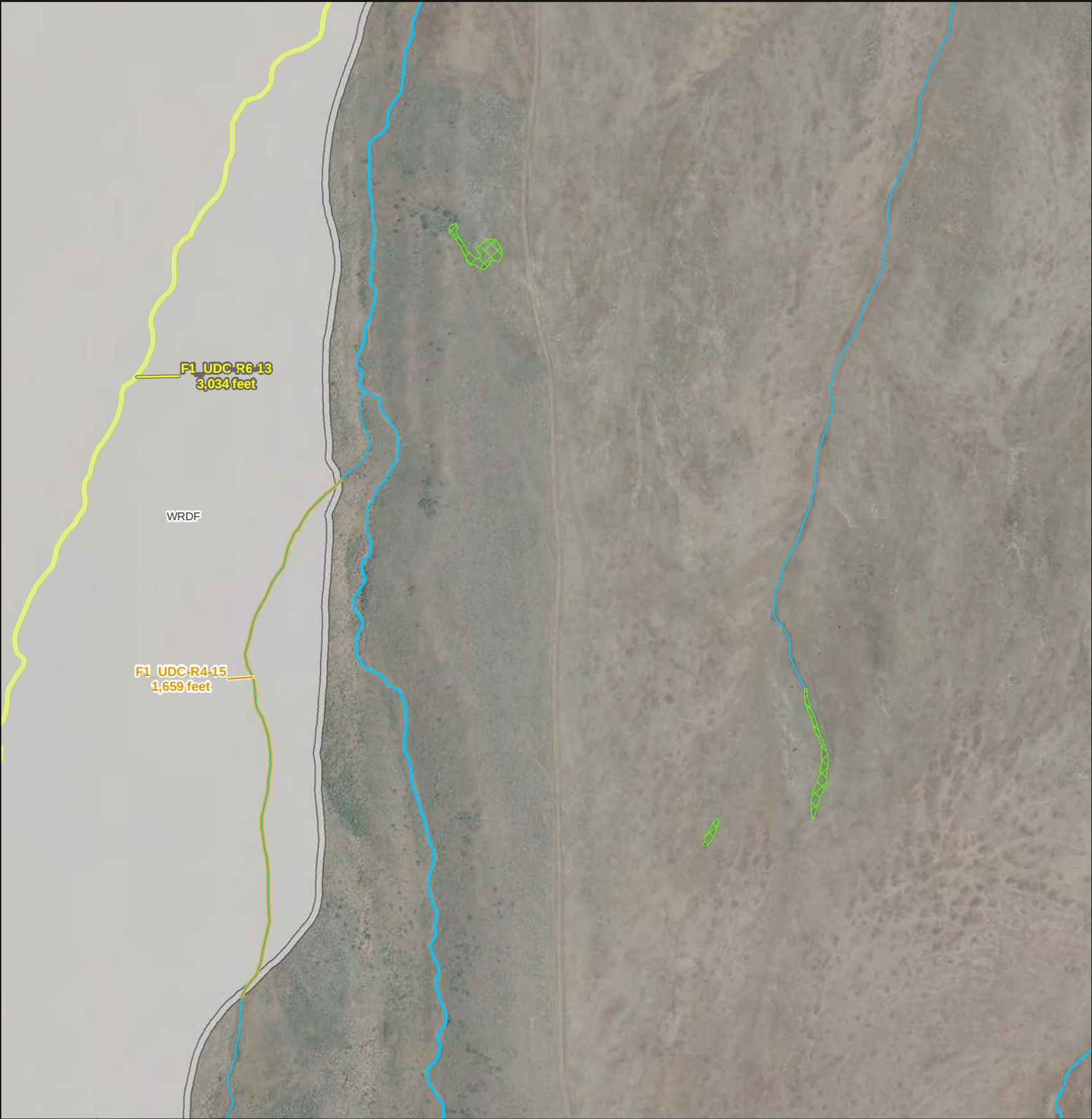
File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

Mt. Diablo Meridian | T30N, R53E, S23-26

Lat.: 40.4621	Long.: -115.9646
Sheet: 46 of 52	July 2025



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



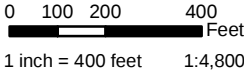
Wetland



Pond



Fill Footprint



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

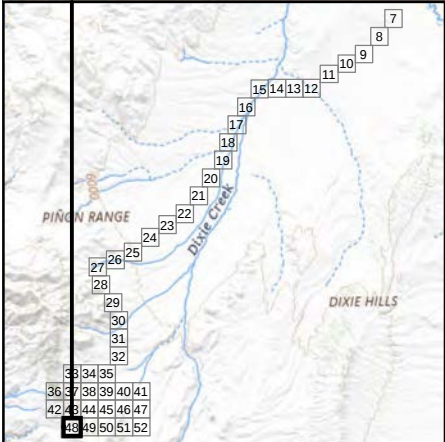
Mt. Diablo Meridian | T30N, R53E, S24-25

Lat.: 40.462

Long.: -115.9529

Sheet: 47 of 52

July 2025



 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

 Intermittent Stream

 Perennial Stream

 Wetland

 Pond

 Fill Footprint

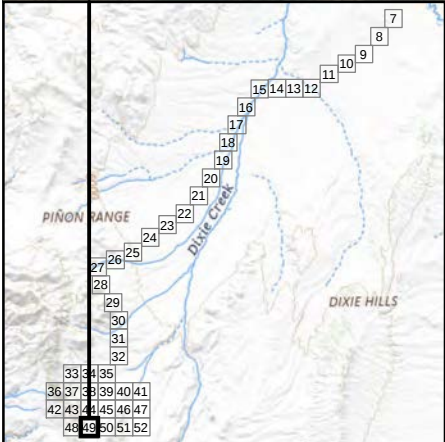
0100200400

Feet

1 inch = 400 feet1:4,800



Applicant: Gold Standard Ventures	
File No.: SPK-2018-00673	
Waterway: Humboldt River	
Proposed Activity: South Railroad Project	
Mt. Diablo Meridian T30N, R53E, S27	
Lat.: 40.4533	Long.: -115.9997
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Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)



Jurisdictional Impact (Pending USACE review)



Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type



Ephemeral Stream



Intermittent Stream



Perennial Stream



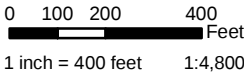
Wetland



Pond



Fill Footprint



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

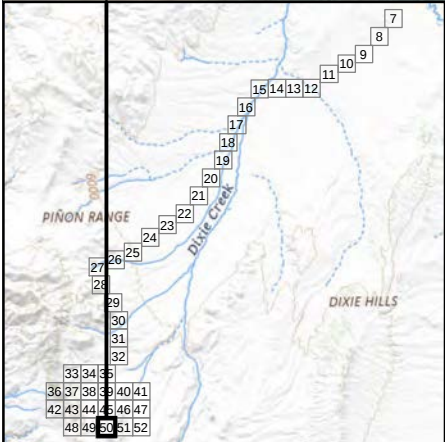
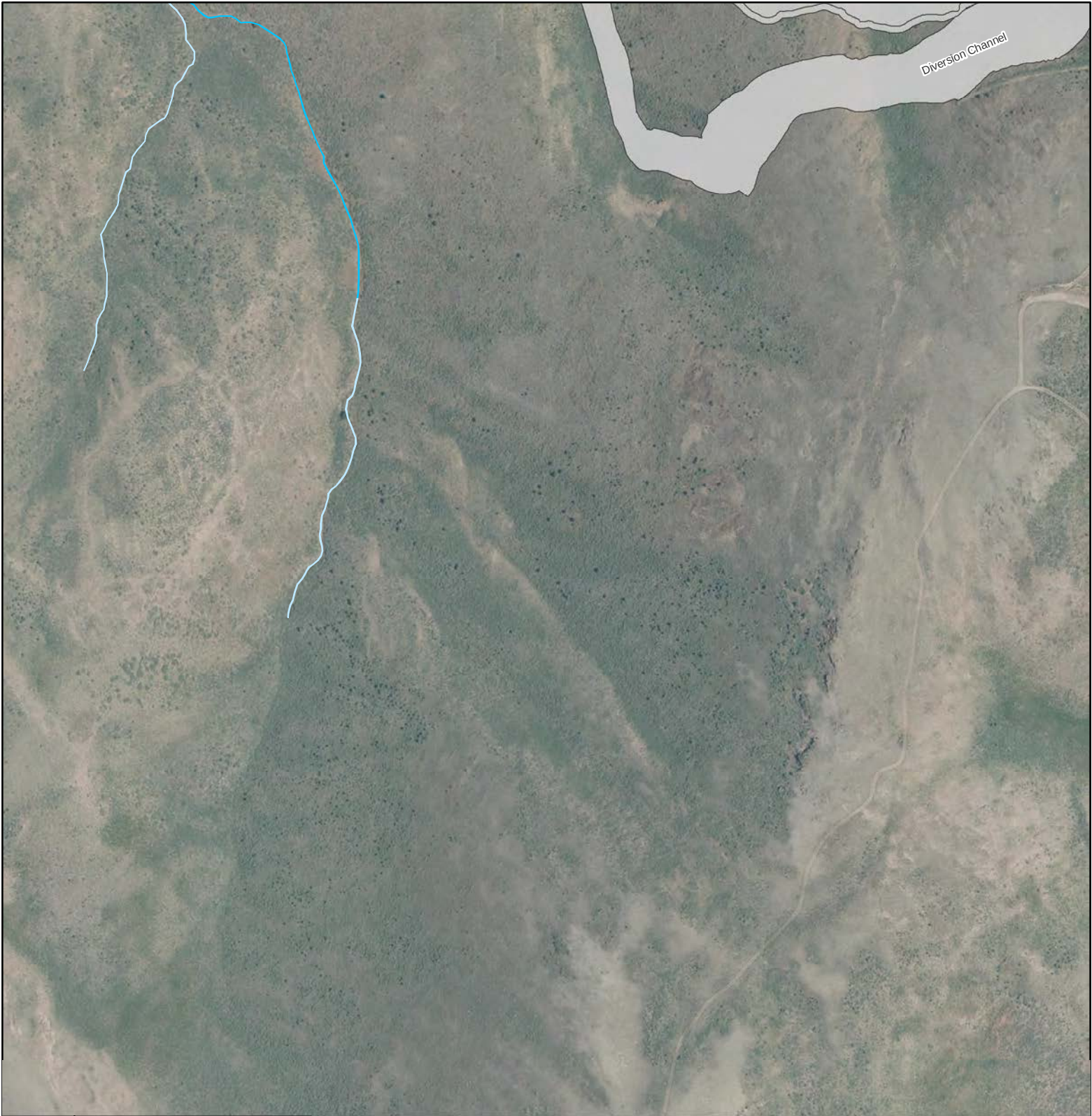
Mt. Diablo Meridian | T30N, R53E, S26-27

Lat.: 40.4532

Long.: -115.988

Sheet: 49 of 52

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 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

 Intermittent Stream

 Perennial Stream

 Wetland

 Pond

 Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800



Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

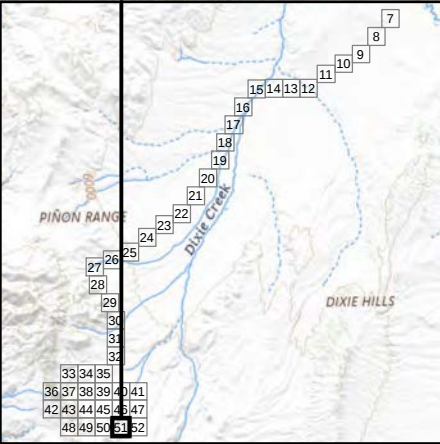
Mt. Diablo Meridian | T30N, R53E, S26

Lat.: 40.4531

Long.: -115.9764

Sheet: 50 of 52

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 Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

 Jurisdictional Impact (Pending USACE review)

 Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

 Ephemeral Stream

 Intermittent Stream

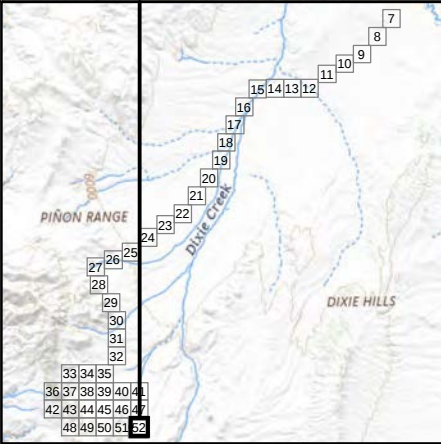
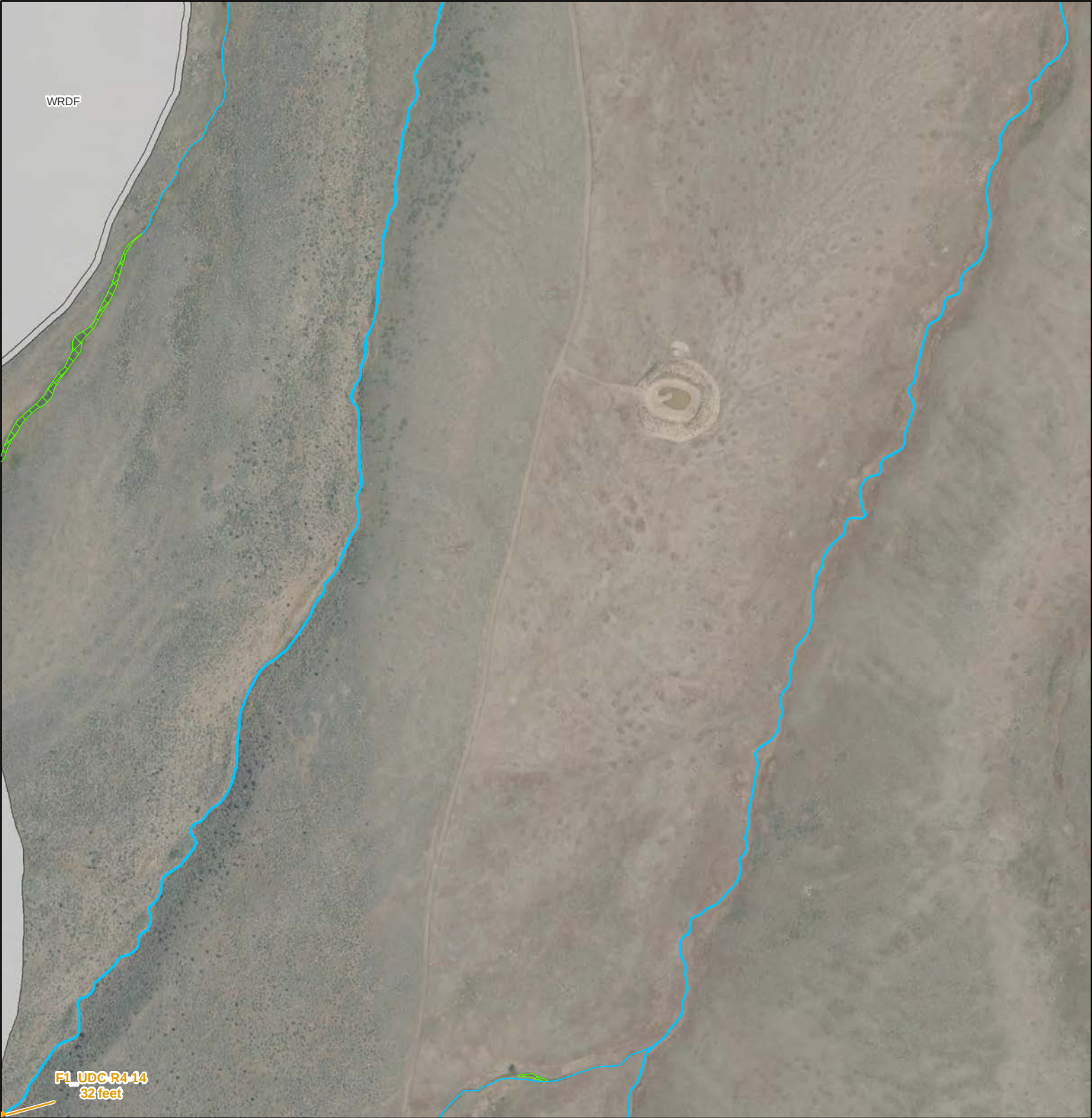
 Perennial Stream

 Wetland

 Pond

 Fill Footprint

0100200400 Feet 1 inch = 400 feet1:4,800		
Applicant: Gold Standard Ventures		
File No.: SPK-2018-00673		
Waterway: Humboldt River		
Proposed Activity: South Railroad Project		
Mt. Diablo Meridian T30N, R53E, S25-26		
Lat.: 40.453	Long.: -115.9647	
Sheet: 51 of 52	July 2025	



Wetland Study Area Boundary (2024)

Permanent Aquatic Resource Impact (labeled by Impact Name and Acres or Linear Feet of Impact)

Jurisdictional Impact (Pending USACE review)

Non-Jurisdictional Impact (Pending USACE review)

Aquatic Resource Type

Ephemeral Stream

Intermittent Stream

Perennial Stream

Wetland

Pond

Fill Footprint

0100200400

Feet

1 inch = 400 feet1:4,800

Applicant: Gold Standard Ventures

File No.: SPK-2018-00673

Waterway: Humboldt River

Proposed Activity: South Railroad Project

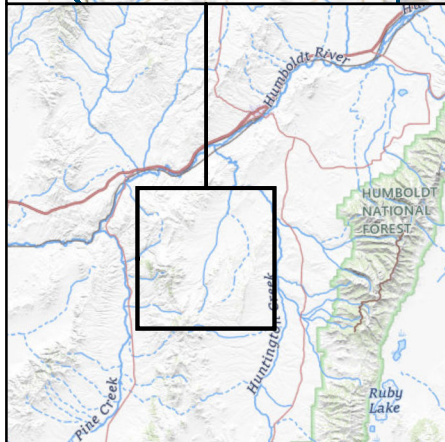
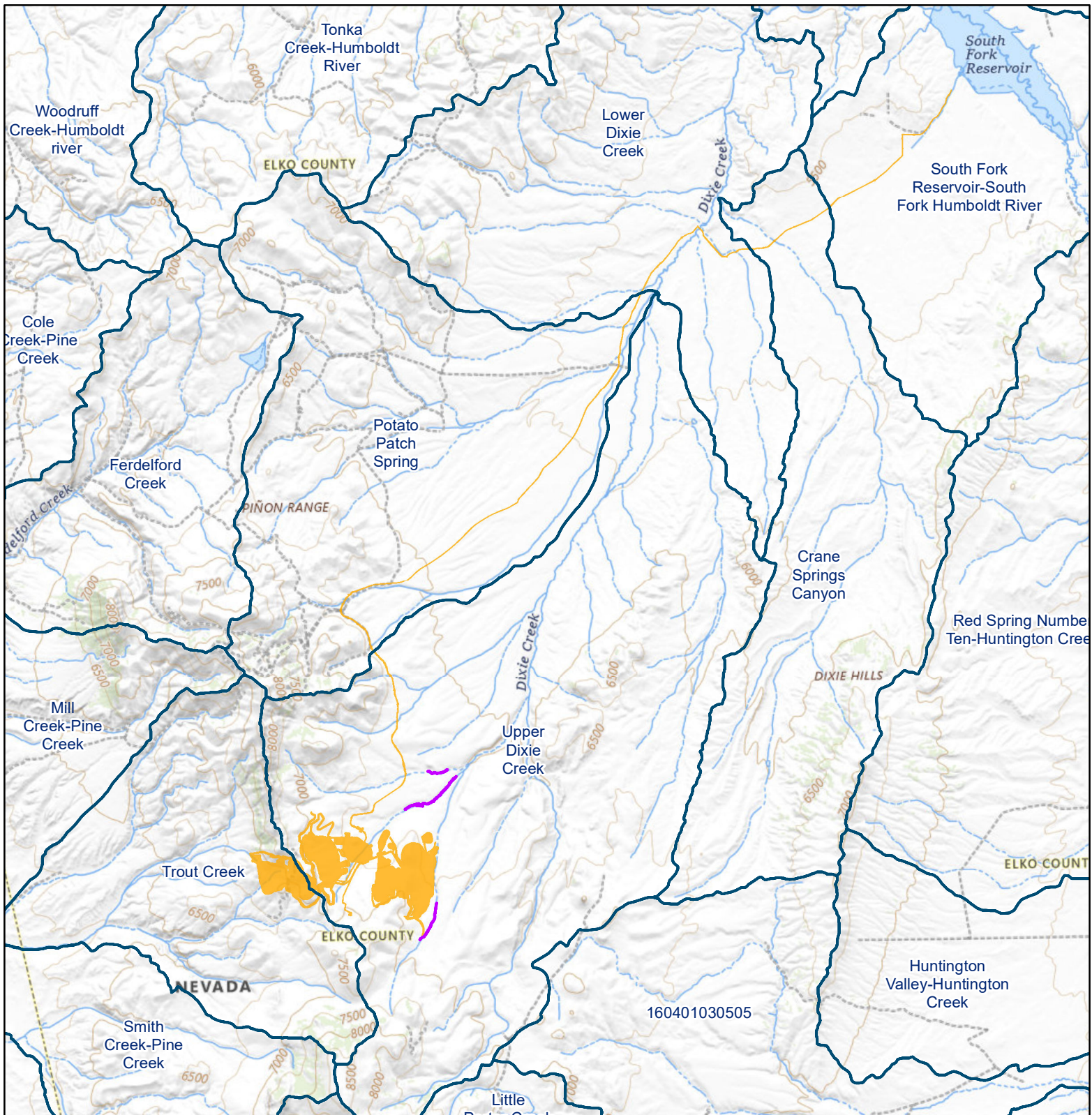
Mt. Diablo Meridian | T30N, R53E, S25

Lat.: 40.4529

Long.: -115.9531

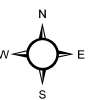
Sheet: 52 of 52

July 2025



- Hydrologic Unit 12 Watershed Boundary
- Mitigation Area
- Fill Footprint

0 1.5 3 Miles
 (At original document size of 8.5x11)
 1:150,000 1 inch = 2.37 miles



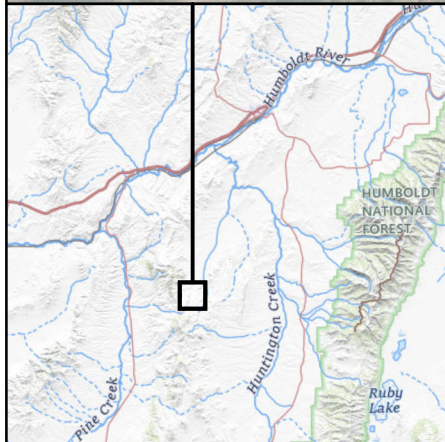
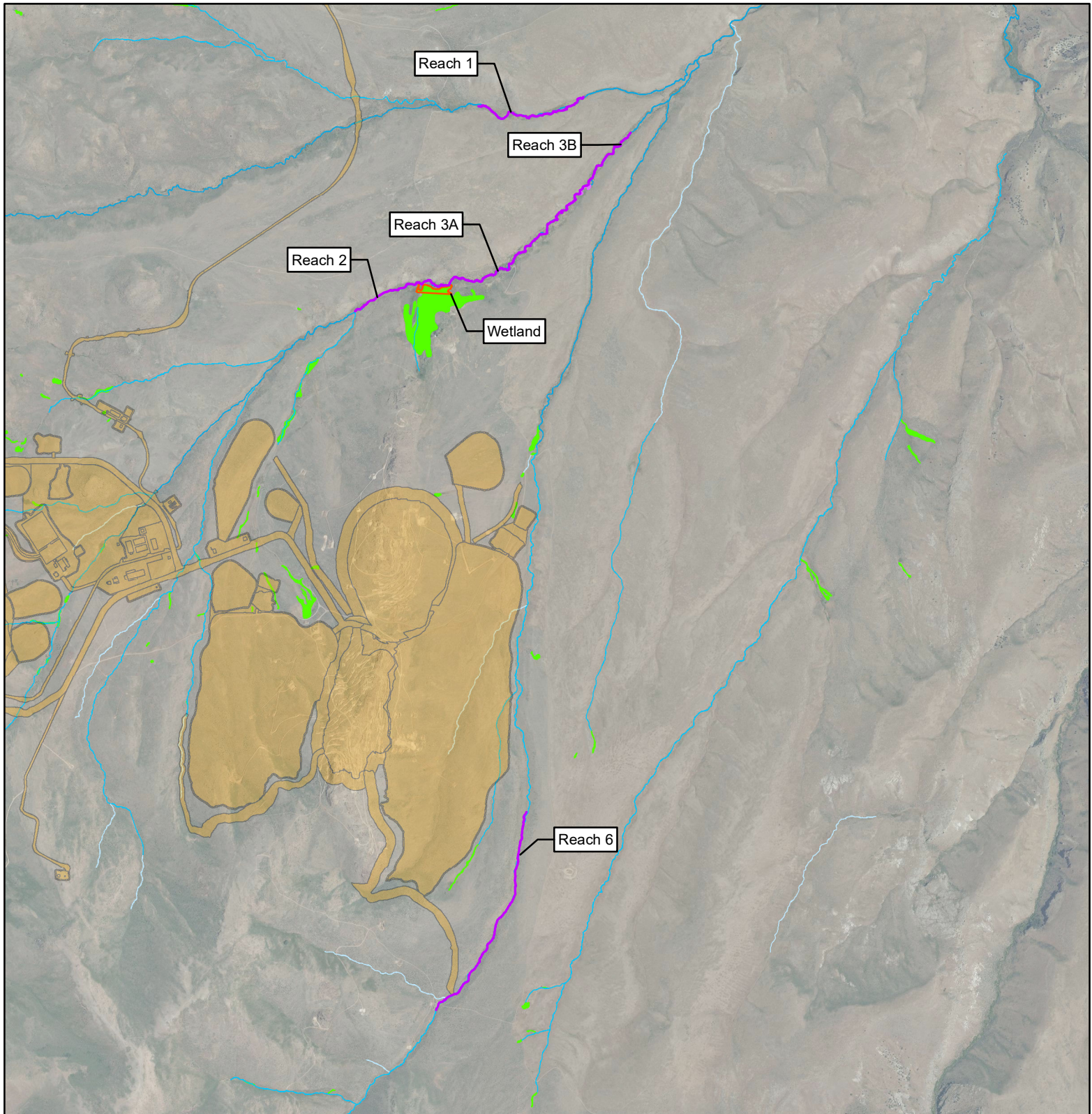
Client
 Gold Standard Ventures

Project
 South Railroad Project

Figure
Mitigation Areas Overview

Figure Number
 1

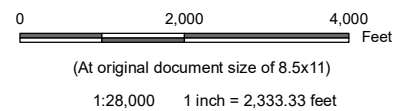




- Stream Mitigation Area
- Wetland Mitigation Area
- Fill Footprint

Mapped Aquatic Resource

- Wetland
- Pond
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream



Client

Gold Standard Ventures

Project

South Railroad Project

Figure

Mitigation Areas Detail

Figure Number

2