### **APPENDIX E**

CONTINGENCY FRAC-OUT PLAN

### **DIGITAL 299 FIBER PROJECT BH2**

### HORIZONTAL DIRECTIONAL DRILL CONTINGENCY PLAN

Humboldt County, Shasta County & Trinity County, California

October 2022

**Prepared By** 



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#### **Prepared For**



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#### TABLE OF CONTENTS

1-INTRODUC	CTION	1
2-OBJECTIVE	S	2
	AGEMENT PRACTICES	
4-PLAN IMPL	EMENTATION	
4.1 Dri	lling Procedures	
4.1.1	Inadvertent Release	3
4.1.2	Prior to Construction	
4.1.3	During Construction	4
4.2 NC	DTIFICATIONS, MONITORING, AND DOCUMENTATION PROCEDURES	5
4.2.1	Monitoring Procedures	
4.2.2	Notification	
4.2.3	Documentation	6
4.2.4	Corrective Actions	
4.3 CO		7

#### APPENDICES

Appendix A: Plan and Profile Appendix B: Contact Information for Contractors Appendix C: Inspection Forms

#### **1-INTRODUCTION**

This Horizontal Directional Drill Contingency Plan (Plan) discusses how Vero Fiber Networks and its contractors will implement procedures to minimize impacts from an inadvertent release during horizontal directional drilling (HDD) during construction of the Digital 299 Fiber Project BH2 (Project).

The Project includes installation of approximately 183 miles of fiber optic cable, mostly buried along existing roads. New road construction is not proposed. Construction of the Proposed Action would be in two phases, the first phase including construction of the middle-mile fiber optic facilities and vaults, which would be entirely buried.

The project must cross numerous culverted blue line streams and open channels waterways. To avoid impacting environmental resources, the project will install the conduits below the waterways using the HDD method or bridge attachment. There will be no trenching through waterways. Table 1 is a list of open channel waterways crossed via HDD.

WaterbackelD	<b>C</b>		Loca	ation
Waterbody I.D.	Segment	Waterbody	Latitude	Longitude
AQ-40	1	McDaniel Slough	40°52'55"	124°05'30"
AQ-68	2	Lindsay Creek	40°54'10"	124°01'46"
AQ-78	3	North Fork Mad River	40°52'13"	123°57'41"
AQ-113	6	Windy Creek	40°53'21"	123°47'32"
AQ-131	7	East Fork Willow Creek	40°54'30"	123°42′28″
TBD	14A	Big French Creek	40°46'48"	123°18′34″
AQ-294	14	Trinity River	40°44'19"	123°15′08″
AQ-307	17	No Name	40°45′27″	123°09′02″
AQ-318	18	Trinity River	40°45′35″	123°05′39″
AQ-360	20	East Weaver Creek	40°44'19"	122°55′33″
AQ-364	21	Little Browns Creek	40°41'47	122°55'27"
AQ-447	23	French Gulch	40°41'52"	122°38'18″
AQ-488	28	Canyon Hallow Creek	40°33'11"	122°23′18″
n/a	28	Oregon Gulch	40°32′47″	122°23′13″
AQ-489	28	Anderson Cottonwood Canal	40°32′17″	122°23′08″
AQ-490	28	Olney Creek	40°31'40″	122°23′00″
AQ-493	28	China Gulch	40°30'17"	122°22'43"
AQ-496	28	Spring Gulch	40°28'00"	122°19′29″
AQ-499	28	Anderson Creek	40°26′51″	122°17′48″
AQ-503	29	Anderson Cottonwood Canal	40°23'48"	122°16′24″

#### Table 1. Open Channel Waterway Crossings

This project requires approval from the California Department of Fish and Wildlife (CDFW) Section 1602 Streambed Alteration Agreement (SAA) as well as a State of California Department of Transportation encroachment permit.

#### 2-OBJECTIVES

This Plan has been prepared to provide methods and procedures that will minimize the impacts associated with the HDD activities. The HDD practices and construction methods presented in this Plan are intended to accomplish the following objectives:

- To avoid direct impacts to creek crossings during the rainy season using HDD techniques and in a manner that does not result in sediment-laden discharge or hazardous materials release into waters.
- To address procedures for containing an inadvertent release of drilling fluid (frac-out) during HDD activities.
- To coordinate HDD activities with the CDFW in accordance with the Section 1602 SAA.

#### **3-BEST MANAGEMENT PRACTICES**

The contractor will implement several Best Management Practices (BMP) to protect the slough including:

- 1. Site preparation shall begin no more than 10 days prior to initiating horizontal bores to reduce the time soils are exposed adjacent to creeks and drainages.
- 2. Trench and/or bore pit spoil shall be stored a minimum of 50 feet from the top of the bank or wetland/riparian boundary. Spoils shall be stored behind a sediment barrier and covered with plastic or otherwise stabilized (i.e., tackifiers, mulch, or detention).
- 3. Portable pumps and stationary equipment located within 100 feet of a water resource (i.e., wetland/riparian boundary, creeks, and drainages) shall be placed within secondary containment with adequate capacity to contain a spill (i.e., a pump with 10-gallon fuel or oil capacity should be placed in secondary containment capable of holding 15 gallons). A spill kit shall be maintained on site at all times.
- 4. Immediately following backfill of the bore pits, disturbed soils shall be seeded and stabilized to prevent erosion, and temporary sediment barriers shall be left in place until restoration is deemed successful.
- 5. The applicant shall obtain the required permits prior to conducting creek crossing work, namely a CDFW Lake and Streambed Alteration Agreement (pursuant to Section 1602 of the California Fish and Game Code). The applicant shall implement all pre- and post-construction conditions identified in the permits issued.
- 6. All slurry mix material will be stored in water tight containers or beneath coverings.
- 7. Contractor shall have the project biologist conduct clearance surveys for special-status plant species prior to construction in appropriate habitat during appropriate seasons when special-status plants are present and identifiable (typically in spring and summer). A biological monitor shall be responsible for designating an appropriate buffer area or bore depth to minimize potential adverse impacts to the plants and their roots. If re-alignment is required on BLM-, USFS-, or Whiskeytown National Recreation Area managed lands, the agency botanist must be contacted prior to work.
- 8. Construction activities shall not occur within perennial aquatic habitats.

#### **4-PLAN IMPLEMENTATION**

The HDD methodology will be utilized on this Project to bore at different locations along the fiber optic line. Bore pits will be located on each side of the proposed bore segment. Boring depths will vary depending on the location and should not exceed 20 feet below grade.

This document includes descriptions of construction methods and drilling procedures, spill prevention measures, notification, documentation, and corrective action procedures. While avoiding impacts to sensitive resources, HDD has the potential to inadvertently release drilling fluids, but properly managed released material can be contained, removed and disposed of safely.

#### 4.1 Drilling Procedures

HDD are technically advanced procedures that involve trenchless drilling to minimize impacts to sensitive habitats and waterways. The HDD process uses a combination of water and bentonite slurry (naturally occurring clay) for drilling fluids. The non-hazardous mixture consists of a combination of active clay, inert solids and water. The fluid is prepared in a mixing tank and is pumped through the center of the drill pipe to the cutters. The fluid is pumped at rates of 100 gallons per minute (gpm) to1,000 gpm. The fluid used during this process acts as a coolant and a lubricant during the drilling process and removes the cuttings and stabilizes the borehole. The cuttings are returned to the entry pit where it is pumped to processing equipment. The fluid is cleaned and recycled while the cuttings are disposed of at an approved disposal facility.

#### 4.1.1 Inadvertent Release

The process of HDD can cause drilling fluid to be released during installation, which can occur when pressure in the drill hole is not maintained and a loss of circulation of drilling fluids occurs. Drilling fluid loss is typical in small amounts when layers of soil, gravel, and rocks are encountered and the drilling fluid fills voids in the materials; however, there is a potential for the inadvertent release of drilling fluid. Drilling fluid release is usually caused by the drill hole pressure going beyond the containment capacity due to fractures in bedrock or other significant voids in geologic strata that allows fluids to surface. A good indicator that a significant amount of loss has occurred is when the returning drilling fluid volume is significantly lower than the pumping fluid volume. The following provides the steps that will be taken in an effort to avoid an inadvertent release of HDD fluid.

#### 4.1.2 Prior to Construction

All sediment and erosion control measures will be installed by the contractor. The measures include the following:

- Storm drain inlets will be protected.
- Large diameter fiber rolls (straw wattles) will be placed around proposed work areas.
- Silt fencing will be placed as needed.
- A site entrance and exit will be established to avoid track out.
- The site will be evaluated for areas that have potential for inadvertent release of fluids (dry and cracked soils) and an inventory of proper drilling fluids and equipment will be on site to deal with the potential problem areas.
- Containment areas will be set up for equipment, drilling fluids, and cuttings storage. Containment

areas consist of some type of plastic sheathing formed with straw waddles to form a pit like area.

- Spill kits and cleanup materials, as described in Section 4.1.5 Spill Kit Equipment, will be available on site prior to any construction activities.
- The BMPs, emergency spill kit, and the Frac-Out kit will be staged nearby for immediate spill response.

#### 4.1.3 During Construction

- All equipment within 100 feet from any drainage or other water resource will be placed in a double containment area.
- Drilling fluid and any waste will be contained in containment areas and stored in storage tanks.
- Spoil stockpiles will be stored behind a sediment barrier and covered with a plastic sheathing. Spoils will be stored at least 50 feet from any waterbodies.
- Monitoring of fluid pressure, bore paths, and water bodies will continue during the duration of the construction activities by the Qualified Drilling Monitor (see Section 4.2 Notifications, Monitoring, and Documentation Procedures for monitoring and documentation procedures).
- A vacuum truck with sufficient hoses to reach all areas along the bore alignment will be staged on site prior to and during all drilling operations for emergency response. If workspace does not permit a vacuum truck to be staged on site, the truck will be readily available at a nearby work location or staging area via on-call procedures.
- An interim pump will be on site to reach low areas and assist the vacuum truck.
- Good housekeeping procedures will be maintained during construction at all times. Tailboard meetings will be held before work each day to discuss housekeeping and safety along with other topics.

#### 4.1.4 **Post Construction**

- Following completion of trenchless excavation activities for the Project, all cuttings and other spoils will be hauled off site to an approved facility.
- All drilling fluids will be removed and hauled off site to an approved facility throughout construction; however, all drilling fluids, cuttings, and spoil piles associated with trenchless excavation activities for the Project will be removed upon completion of those activities.
- All pre-construction sediment and erosion control measures described previously will continue to remain in place and will be monitored until the site has been stabilized and the spoils have been removed.

#### 4.1.5 Spill Kit Equipment

The materials provided in the Emergency Spill Kit may include the following items:

- Three (3) absorbent socks
- Six (6) disposal bags and ties
- Two (2) pair of safety glasses
- Two (2) pair of rubber gloves
- One (1) sorbent drip pillow
- Twelve (12) sorbent pads
- One (1) Emergency Response Guidebook

- Two (2) sorbent spill pillows
- Four (4) hazardous labels
- One (1) bag Lite-Dri Absorbent
- One (1) shovel & 1 broom
- Absorbent skipper booms
- One (1) 55-gallon storage barrel

The materials provided in the Frac-Out Kit may include the following items:

- One hundred (100) sand bags
- Vacuum truck with sufficient length of vacuum hose
- Intermediate pump
- Hundred (100) feet of fiber rolls
- Twenty (20) straw bales
- Two (2) shovels
- Lumber
- One (1) 3,000-gallon tank for storage of released material

#### 4.2 NOTIFICATIONS, MONITORING, AND DOCUMENTATION PROCEDURES

As identified in the Project plans, and the Project's federal, state and local permits, HDD locations will be monitored, in Section 4.2.1 Monitoring Procedures of this Plan, until the sites are stabilized and the spoils have been removed.

#### 4.2.1 Monitoring Procedures

During drilling operations, the drilling contractor will have a Qualified Drilling Monitor present on site, who will perform the following activities:

- Visually inspect the bore path at the completion of each joint and inspect 100 feet upstream and downstream along bore alignment.
- Monitor drilling mud pressures and return flows. Shut down drilling operations immediately if more than 2% of the total fluid volume in circulation is lost during the drilling of one (1) joint (30 feet max).
- Visually inspect the bore alignment and a 100-foot radius around the HDD operation.
- If drilling fluids begin to decline, two (2) crew members will continue to monitor until drilling fluid returns are stabilized.
- Communicate regularly regarding the drilling conditions during the course of the drilling activities.
- Inspect all stream crossings with flowing water.
- Monitoring for frac-outs shall continue 48 hours after all the drilling and reaming is completed.
- Contain all drilling fluids and cuttings for proper disposal at an approved facility.

A daily inspection form with hourly inspection intervals is included in Attachment B: Inspection Forms.

Prior to the commencement of drilling operations, the environmental monitor will identify any sensitive environmental resources located in the area of potential frac-out. The location of these resources will be communicated to the drilling contractor verbally.

An environmental monitor will be present at all times when HDD activities are being performed. As discussed in Section 4.2.4 Corrective Actions, in the event of an inadvertent release outside of the approved work area, the construction contractor will conduct cleanup and inspections of the area via foot when feasible and, if it is safe to do so, will be accompanied by the appropriate environmental, archeological, and biological monitor(s).

#### 4.2.2 Notification

In the event that an inadvertent release is discovered, the required notifications will be made according to the Project's permits and plans. Specifically, as required by the Project's Section 404, 401, and 1602 permits, the United States Army Corps of Engineers, Regional Water Quality Control Board, CDFW, and CPUC will be notified of any inadvertent release impacting jurisdictional waters. The notification(s) will be made as soon as an impact to a resource has been identified and sufficient data has been gathered to release the report. Vero Fiber Networks will endeavor to make the required notifications by phone or in writing within 24 hours following discovery of the release, if feasible.

#### 4.2.3 Documentation

In the event that an inadvertent release is discovered, the following information will be documented:

- Name and telephone number of the person reporting release
- Date and time of release
- Location of release
- Nature of the release (type, quantity, size, etc.)
- How the release occurred
- Type of activity occurring around area
- Description of sensitive areas and their location in relation to the release
- Any identified impacts to biological, cultural, or paleontological resources
- Corrective actions taken
- Information regarding the potential threat to public health and safety (if any)

After the information detailed previously has been gathered, Vero Fiber Networks will provide the appropriate information in writing within 48 hours to the requisite agencies, as discussed in Section 4.2.2 Notification. However, in the event that the information cannot be gathered and/or cleanup activities are not completed within 48 hours, a final report documenting the information discussed in Section 4.2.2 Notification will be submitted to the requisite agencies as soon as practicable.

#### 4.2.4 Corrective Actions

In the event that an inadvertent release/frac-out is discovered, the following corrective actions will take place:

- Drilling operations will stop immediately.
- Notification procedures will be implemented.
- The material will be removed and/or contained to minimize the affected area. Environmental monitors will be on site at all times while HDD activities are performed to ensure environmental requirements are met for removals in sensitive areas.
- The spill kit equipment will be kept on a trailer to facilitate rapid response to the site of the inadvertent release.
- The least damaging equipment (i.e. vacuum truck and sandbags) and techniques will be used to clean up the spill. In the event that cleanup of an unanticipated release is necessary outside of the approved Project area and procedures beyond the use of foot traffic are required, the equipment and access route to be utilized for cleanup activities will be approved by CPUC prior to the completion of these activities, if feasible. However, the primary objective of the contractor in the event of a release will be to secure the site to prevent harm to human health and the environment.
- Impacted soils and any other materials associated with spill containment will be removed as soon as practical to an approved disposal facility.

#### 4.3 CONTACT INFORMATION

The following table lists the individuals responsible for implementation of this Plan during construction.

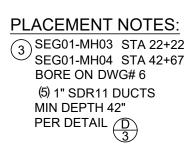
Company/Organization	Name/Title	Telephone Number
Vero Fiber Networks	Karen Collins, Project Manager	630.660.5506
Contractor	See Appendix B	See Appendix B
CSW ST2	Robert Stevens, Project Manger	415.533.1864
CSW ST2	Julia Harberson, Project Engineer	415.599.9564

### **APPENDIX A**

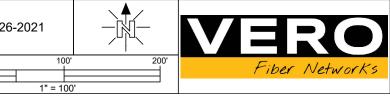
### PLAN AND PROFILE

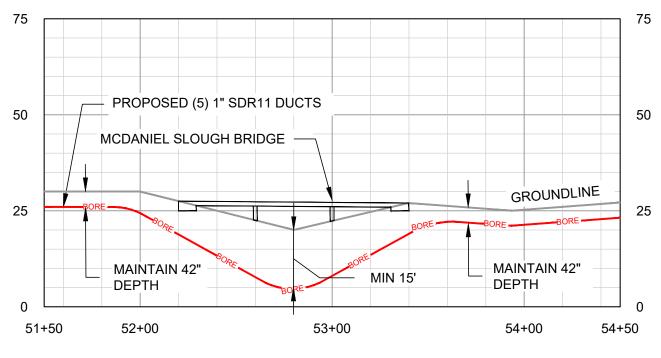


		SUBJECT	VERSION
CSW ST2	JOB NO. <u>D299 - SEGMENT 1</u>	TRENCH ALIGNMENT	02-26-2
CSW/Stuber-Streeb	LOCATION ARCATA, CA	TYPE OF CONST	1
Engineering Group, Inc.	ENGR JULIA HARBERSON TEL 415-599-9564	DUCT PLACEMENT	0
Novaia, CA 94949 Tax: 415.855.8855		DWG OF 15	



4 SEG01-MH04 STA 42+67 SEG01-MH05 STA 64+57 BORE 1198' (5) 1" SDR11 DUCTS MIN DEPTH 42" PER DETAIL D 3



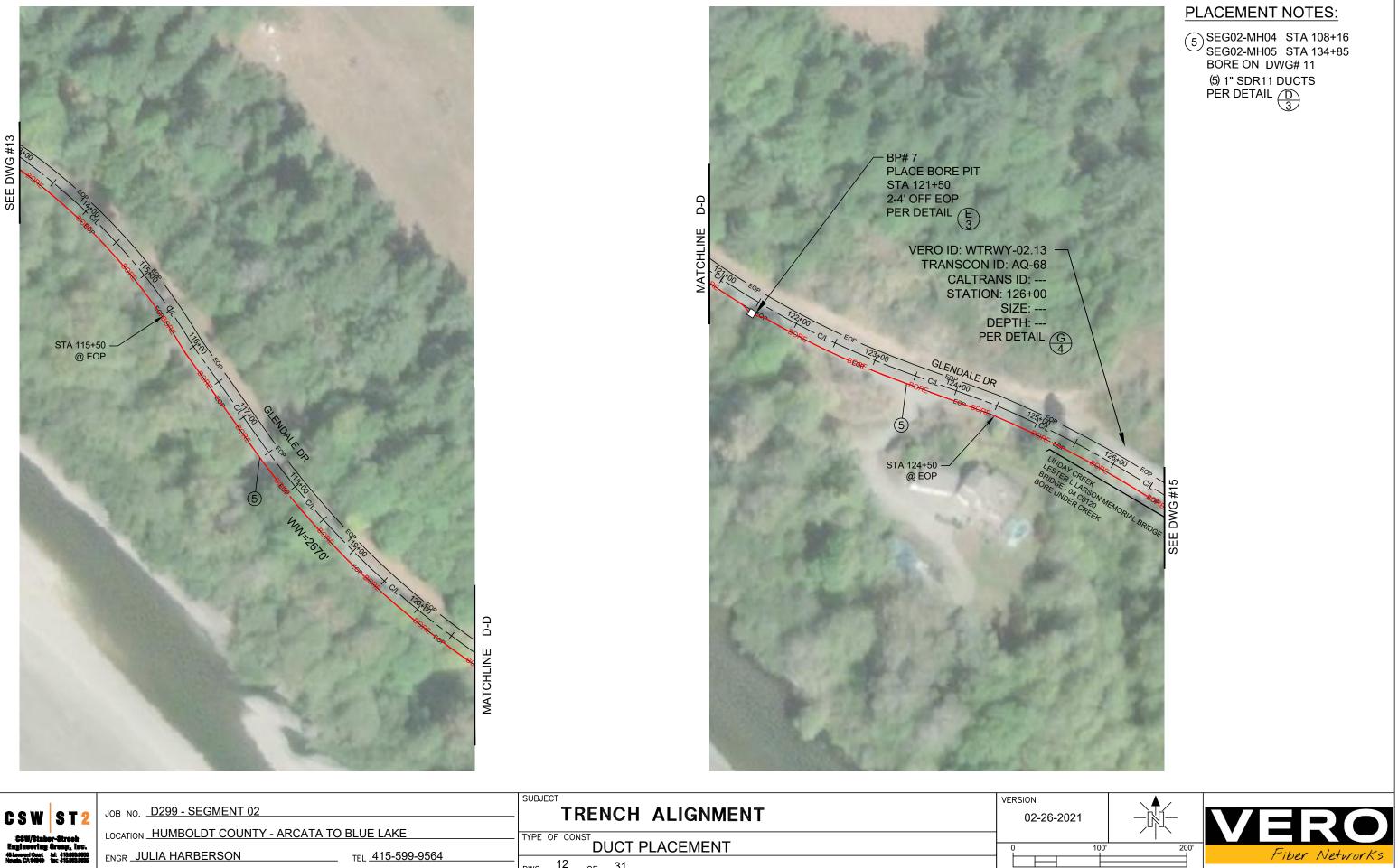




SCALE: HOR. 1" = 50' VERT. 1" = 25'

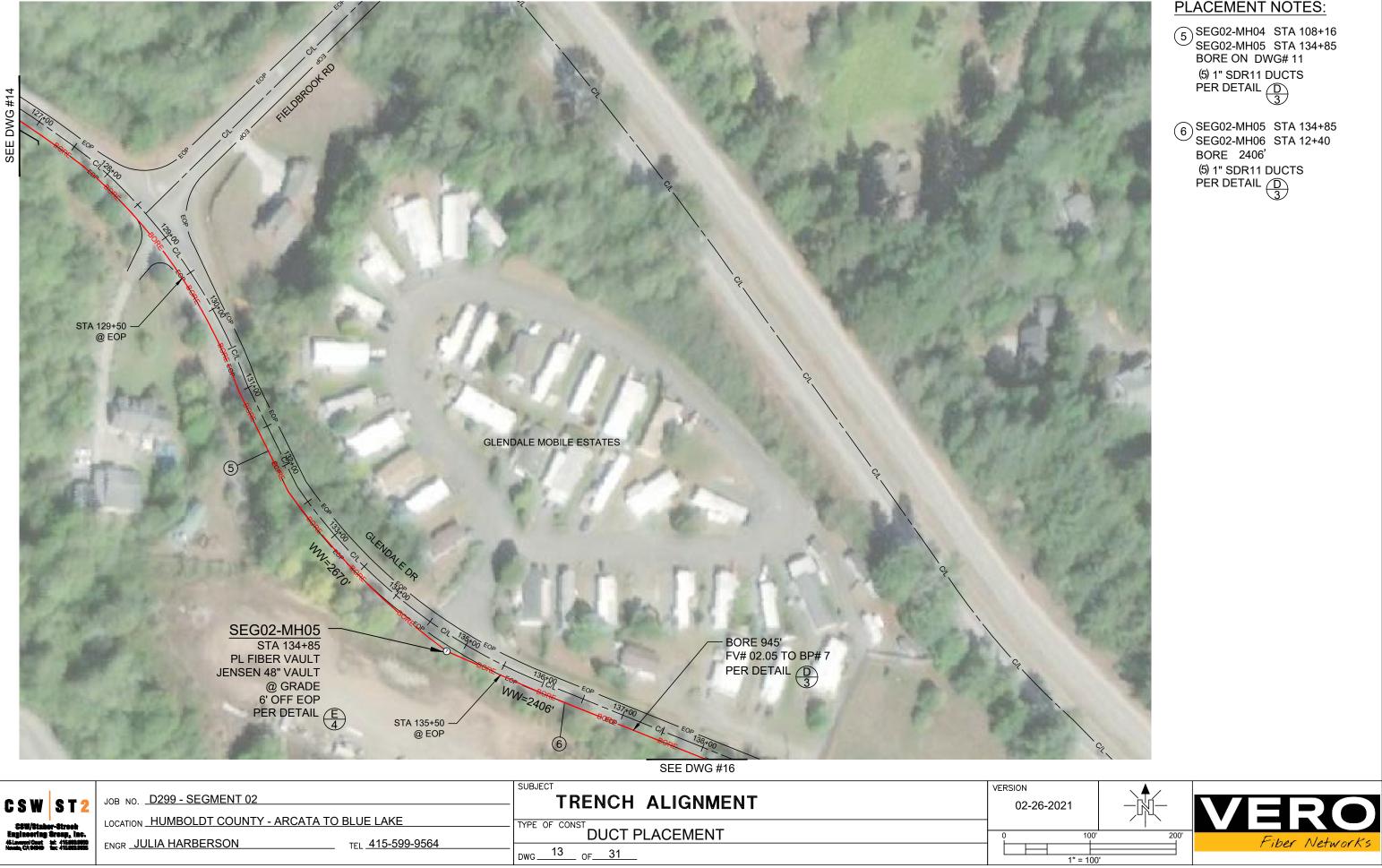
CSW ST2	JOB NO. <u>D299 - SEGMENT 1</u>		VERSION 02-26
CSW/Staker-Streek Englesering Group, Inc. (4Lawrin Gaut at: 415/05/00 Nouda, CA 9009 for 415/05/005	LOCATION ARCATA, CA ENGR JULIA HARBERSON TEL 415-599-9564	TYPE OF CONST DUCT PLACEMENT DWG160F16	



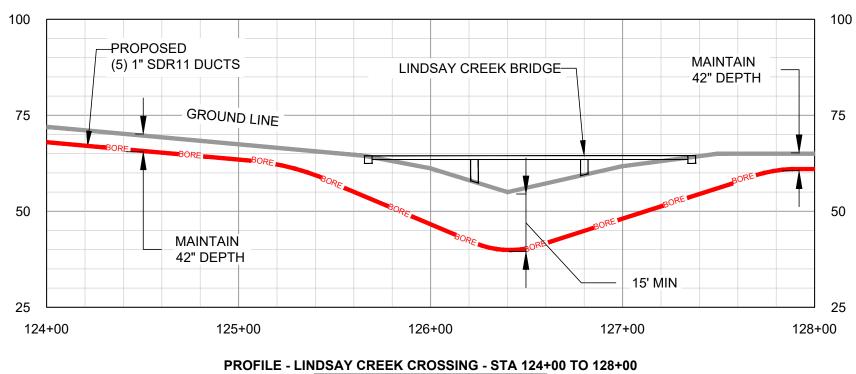


1" = 100'

		SUBJECT	VERSION
CSW ST2	JOB NO. <u>D299 - SEGMENT 02</u>	TRENCH ALIGNMENT	02-26
CSW/Staker-Streek Engineering Group, Inc.	LOCATION HUMBOLDT COUNTY - ARCATA TO BLUE LAKE		0
46 Lawrent Court at 415,005,000 Novela, CA 94949 Tex: 415,005,0055	ENGR _ JULIA HARBERSON TEL _ 415-599-9564	$\frac{12}{DWG} = \frac{12}{0F} = \frac{31}{31}$	



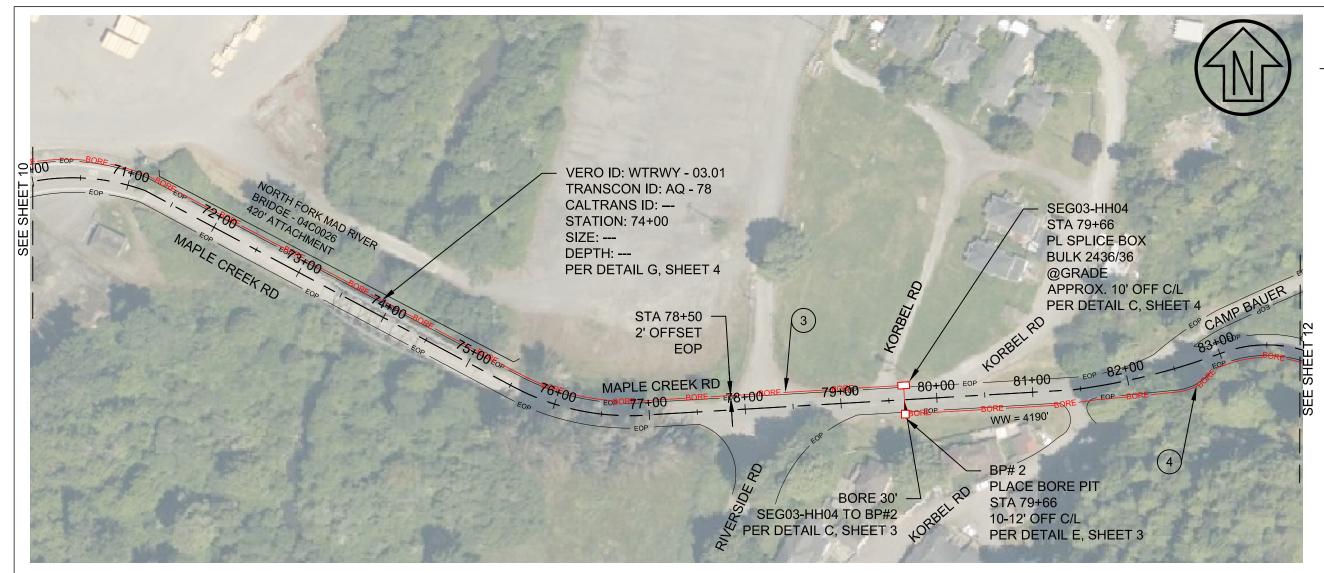
### PLACEMENT NOTES:

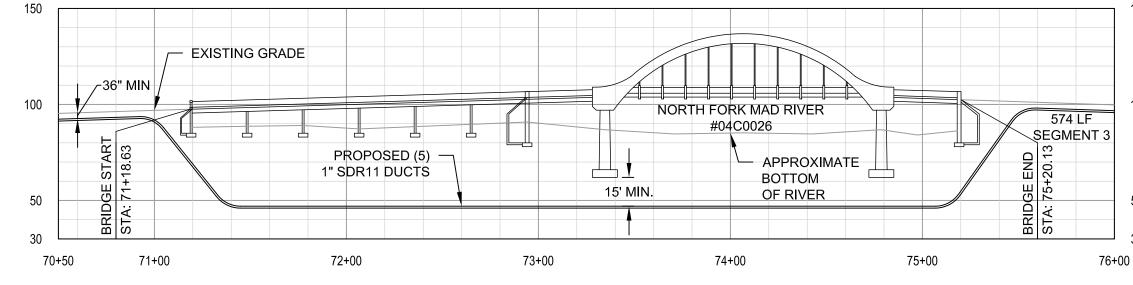


SCALE: HOR. 1" = 50' VERT. 1" = 25'

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CSW/Stabor-Streek	LOCATION HUMBOLDT COUNTY - ARCATA TO BLUE LAKE	TYPE OF CONST	
Engineering Group, Inc. (6) second Court at 415,003,000 Novel, CASIDIO fac 415,003,005	ENGR _ JULIA HARBERSON	DUCT PLACEMENT	
		DWG <u>31</u> OF <u>31</u>	1







### NORTH FORK MAD RIVER

SCALE: HOR. 1" = 50' VERT. 1" = 50'

CSW ST2	JOB NO. <u>D299 - SEGMENT 03</u>	- TRENCH ALIGNMENT	VERSION 02-19-3
CSW/Stabor-Streeh Engineering Group, Inc. 45 Lewroni Court at: 415.883.9835 Novato, CA 94949 fac: 415.883.9835	LOCATION   HUMBOLDT COUNTY - HWY 299 TO KOREBLE ON TO BLUE LAKE     ENGR   JULIA HARBERSON     TEL   415-599-9564	TYPE OF CONST DUCT PLACEMENT 	

### **PLACEMENT NOTES:**

(3)SEG03-HH03 STA 63+35

SEG03-HH04 STA 79+66

BORE ON SHEET 10

(5) 1" SDR11 DUCTS

PER DETAIL C, SHEET 3

(4)SEG03-HH04 STA 79+66

SEG03-HH05 STA 121+36

BORE 4190'

(5) 1" SDR11 DUCTS

PER DETAIL C, SHEET 3

150

100

50

30





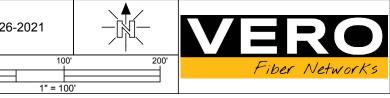
SEE DWG #11

	JOB NO. D299 - SEGMENT 6 - SABER TOOTH RD	SUBJECT TRENCH ALIGNMENT	VERSION
69W 914	LOCATION HUMBOLDT COUNTY - SABER TOOTH RD	TYPE OF CONST	02-26-
Engineering Group, Inc.	ENGR _ JULIA HARBERSON TEL _ 415-599-9564	DUCT PLACEMENT	

### PLACEMENT NOTES:

 3 SEG06-HH03 STA 80+05 SEG06-HH04 STA 118+50 BORE ON DWG# 9
(5) 1" SDR11 DUCTS MIN 42" COVER PER DETAIL D 3

 (4) SEG06-HH04 STA 118+50 SEG06-HH05 STA 164+28 BORE 4579'
(5) 1" SDR11 DUCTS MIN 42" COVER PER DETAIL D 3

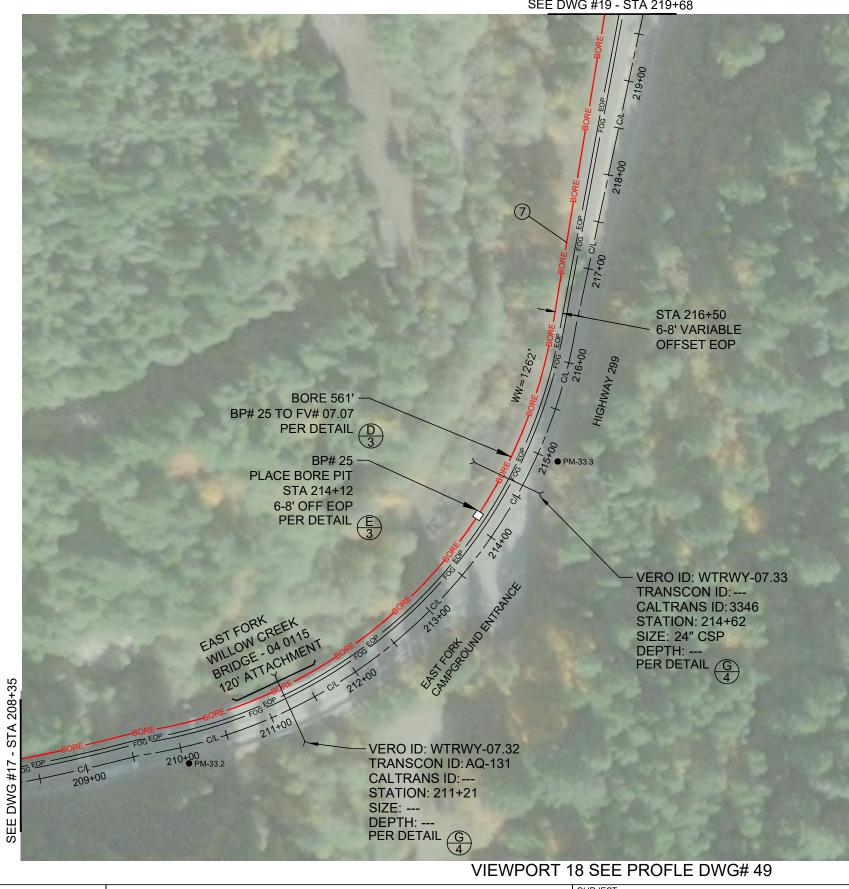


122 36" DEPTH 120 120 120 1175 118+00 119+00 120+01 120+01 120+01 120+01 121+00 121+00 121+00 121+00 121+00 121+00 121+00 122+00 ECRET HOR: 1" = 50' VERT. 1" = 25'		CREEK CROSSING		ROPE	BORE
1200 1200 1175 1175 1175 118+00 119+00 120+00 120+00 121+00		DEPTH		DUNDLINE BORE	
1175 1175 1175 118+00 119+00 119+00 119+00 120+00 121+00 121+00 121+00 121+00 121+00 121+00 121+00 122+00 120+	1200				
1150   119+00   120+00   121+00   122+00     PROFILE VIEW - 12 - STA 118+00 TO 122+00	1175			PROPOSED (5) 1" SDR11 DUCTS -	
118+00 119+00 120+00 121+00 122- <b>PROFILE VIEW - 12 - STA 118+00 TO 122+00</b>	1150		15' MIN		
PROFILE VIEW - 12 - STA 118+00 TO 122+00 SCALE: HOR. 1" = 50' VERT. 1" = 25'		119+00	120+00	121+00	122-
		PROFILE	VIEW - 12 - STA 118+ SCALE: HOR. 1" = 50' VERT. 1"	<b>00 TO 122+00</b> = 25'	

-		SUBJECT	VERSION
CSW ST2	JOB NO. D299 - SEGMENT 6 - SABER TOOTH RD	TRENCH ALIGNMENT	02-26-
	LOCATION HUMBOLDT COUNTY - SABER TOOTH RD	TYPE OF CONST	
Engineering Group, Inc. 46 Januari Court at 415 00 5000 Nound, CA 5000 Tec 415 00 5005	ENGR _ JULIA HARBERSON TEL_415-599-9564	DUCT PLACEMENT	
Inning Alfaisis BC 4100030000		DWG 23 OF 23	



SEE DWG #19 - STA 219+68

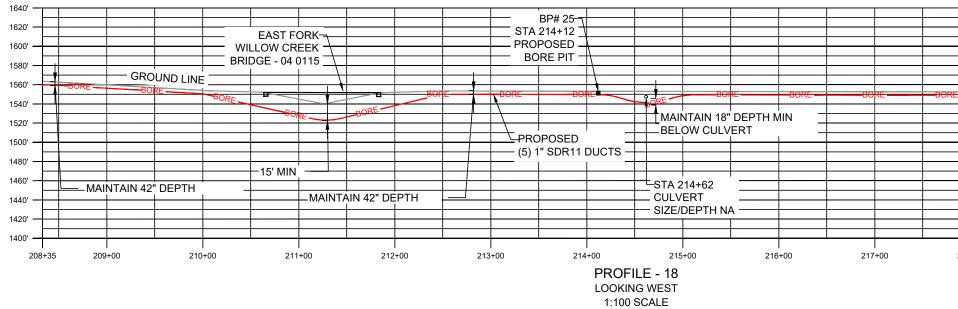


		SUBJECT	VERSION
CSW ST2	JOB NO. <u>D299 - SEGMENT 7</u>	TRENCH ALIGNMENT	02-26-2
AAM\Armidi Arimali	LOCATION HWY 299-COUNTY RTE 7K100 TO WILLOW CREEK	TYPE OF CONST	
Engineering Group, Inc. (6Lawroni Court tot: 415,003,000 Noval, CA 90910 tot: 415,003,0005	ENGR_JULIA HARBERSON	DUCT PLACEMENT	
		DWG18OF62	

### PLACEMENT NOTES:

7 SEG07-MH06 STA 206+90 SEG07-MH07 STA 219+82 BORE ON DWG# 17 (5) 1" SDR11 DUCTS (5) 1" SURTERES MIN 42" COVER PER DETAIL D 3



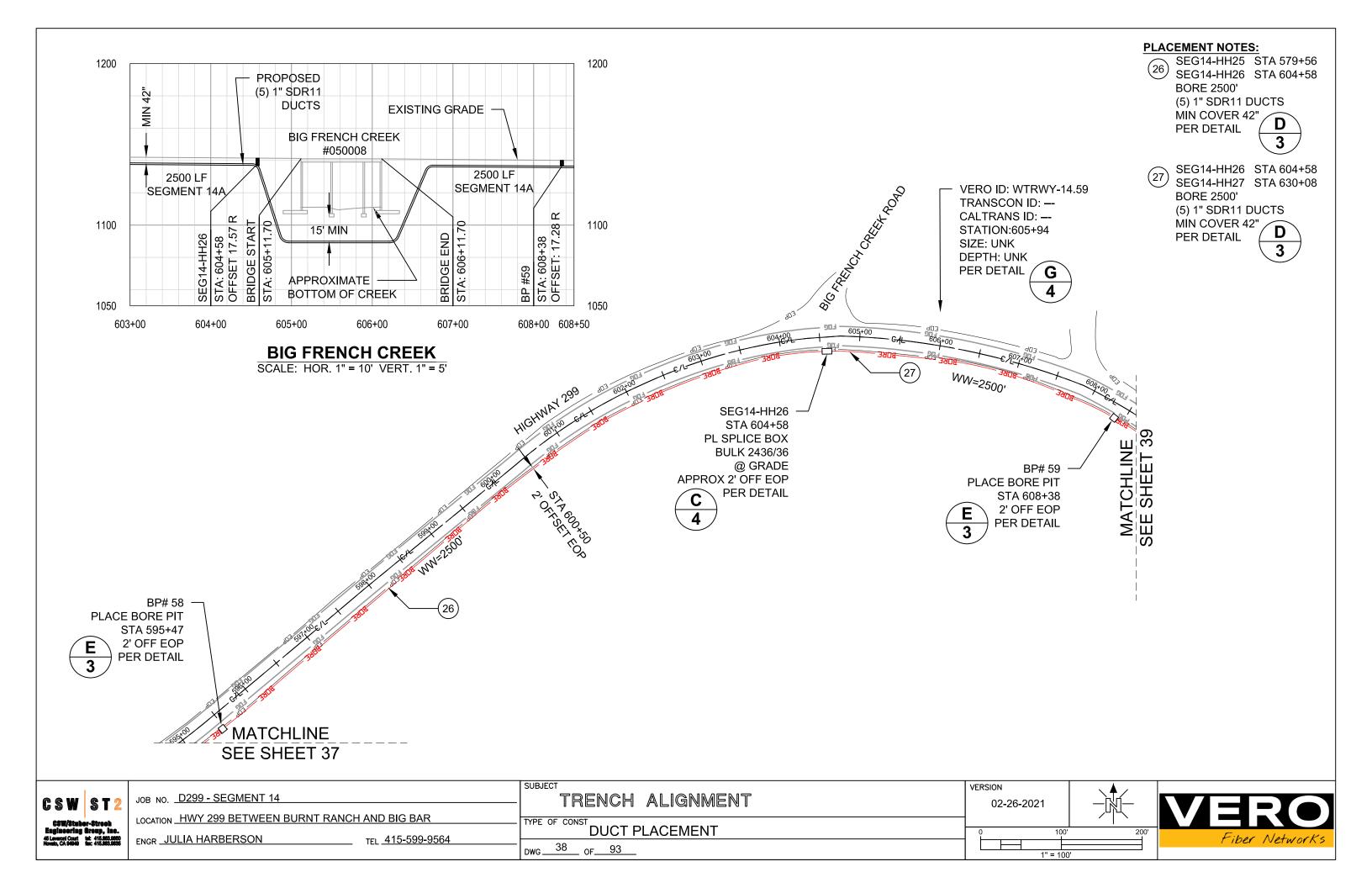


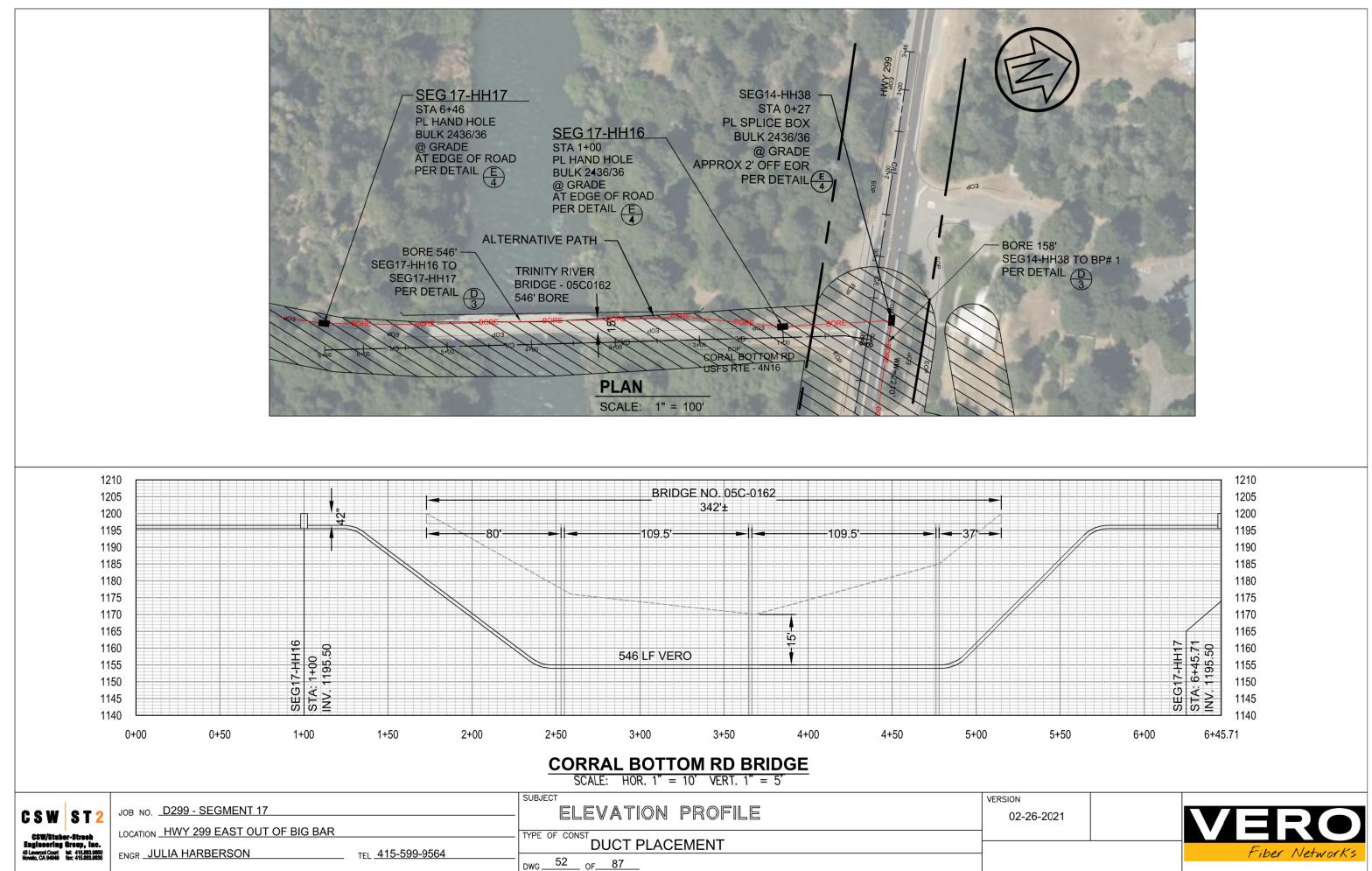
			SUBJECT	VERSION
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		LOCATION HWY 299-COUNTY RTE 7K100 TO WILLOW CREEK	TYPE OF CONST	
	Engineering Group, inc. 46 Javenni Court - Ist: 416.000.0000 Novala, CA-9090 - Inc. 416.003.0005	ENGR JULIA HARBERSON TEL 415-599-9564	DUCT PLACEMENT	-
			DWG <u>49</u> OF <u>62</u>	

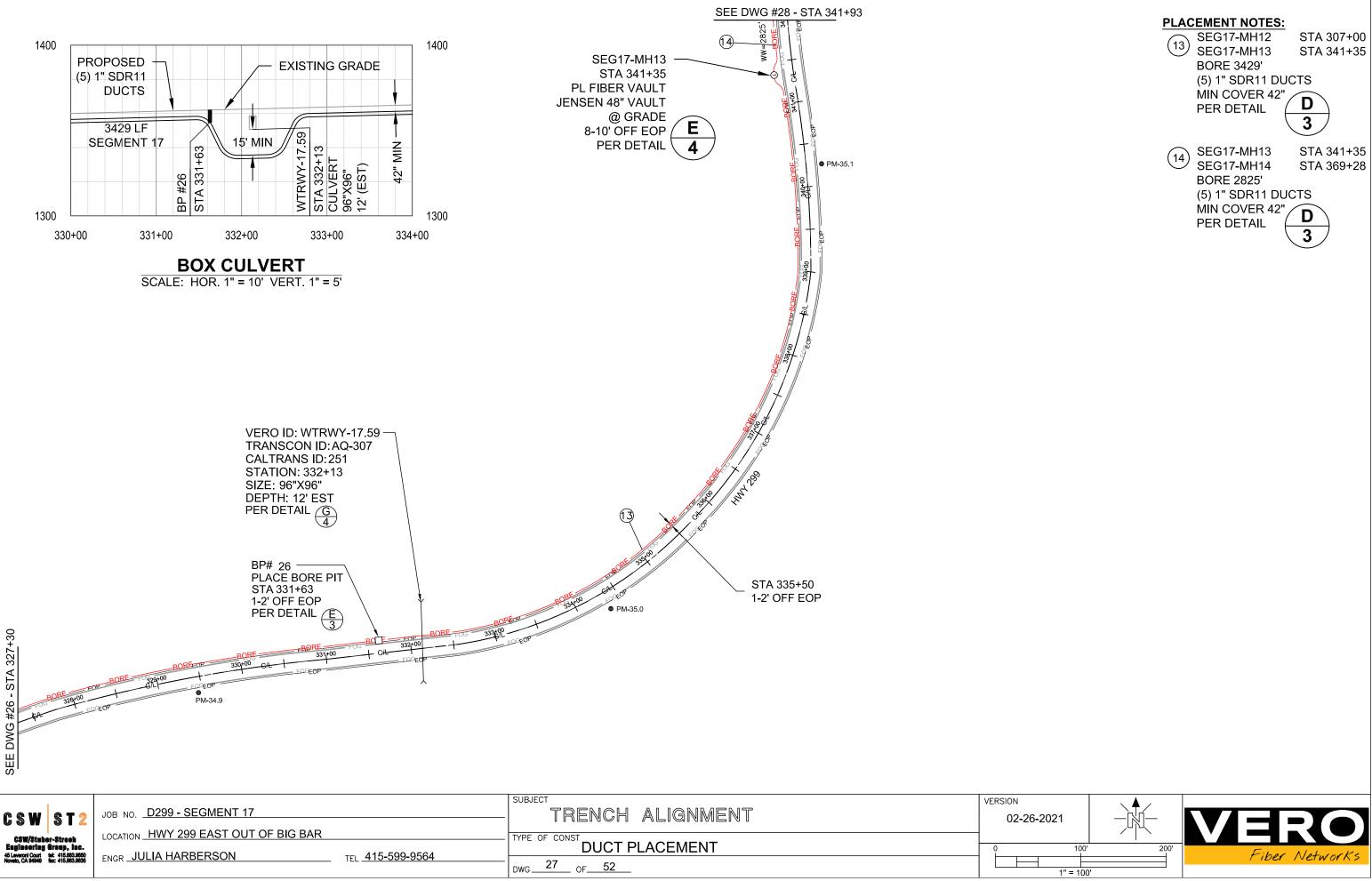
	<u>BC</u>	RE	BORE -		
218+00		219	219+00		

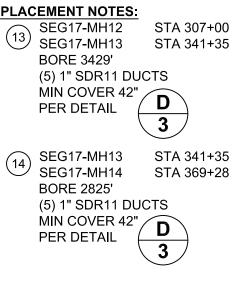


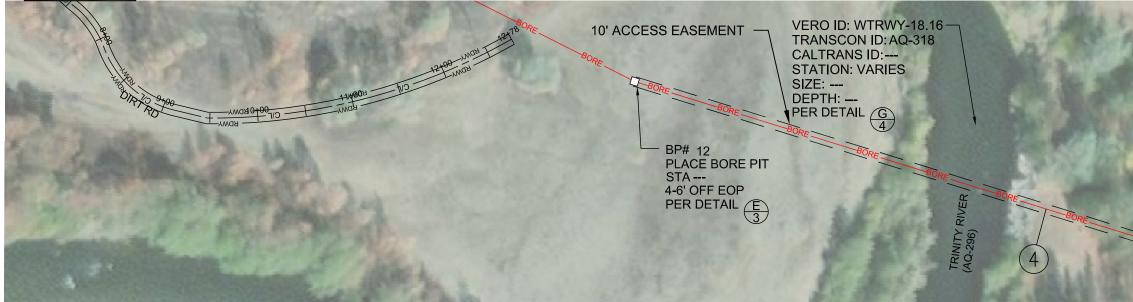
# **SEGMENT 14A**

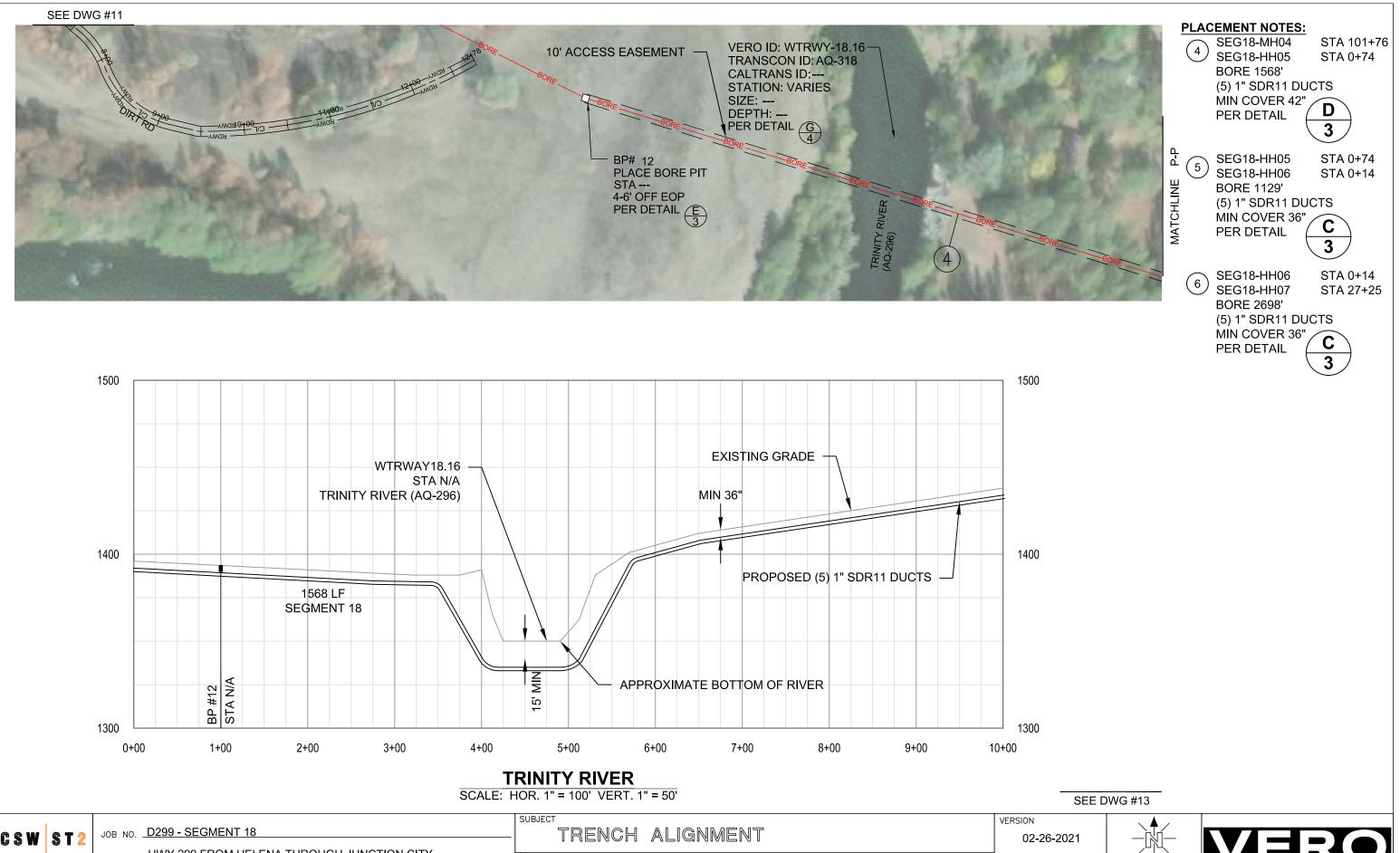












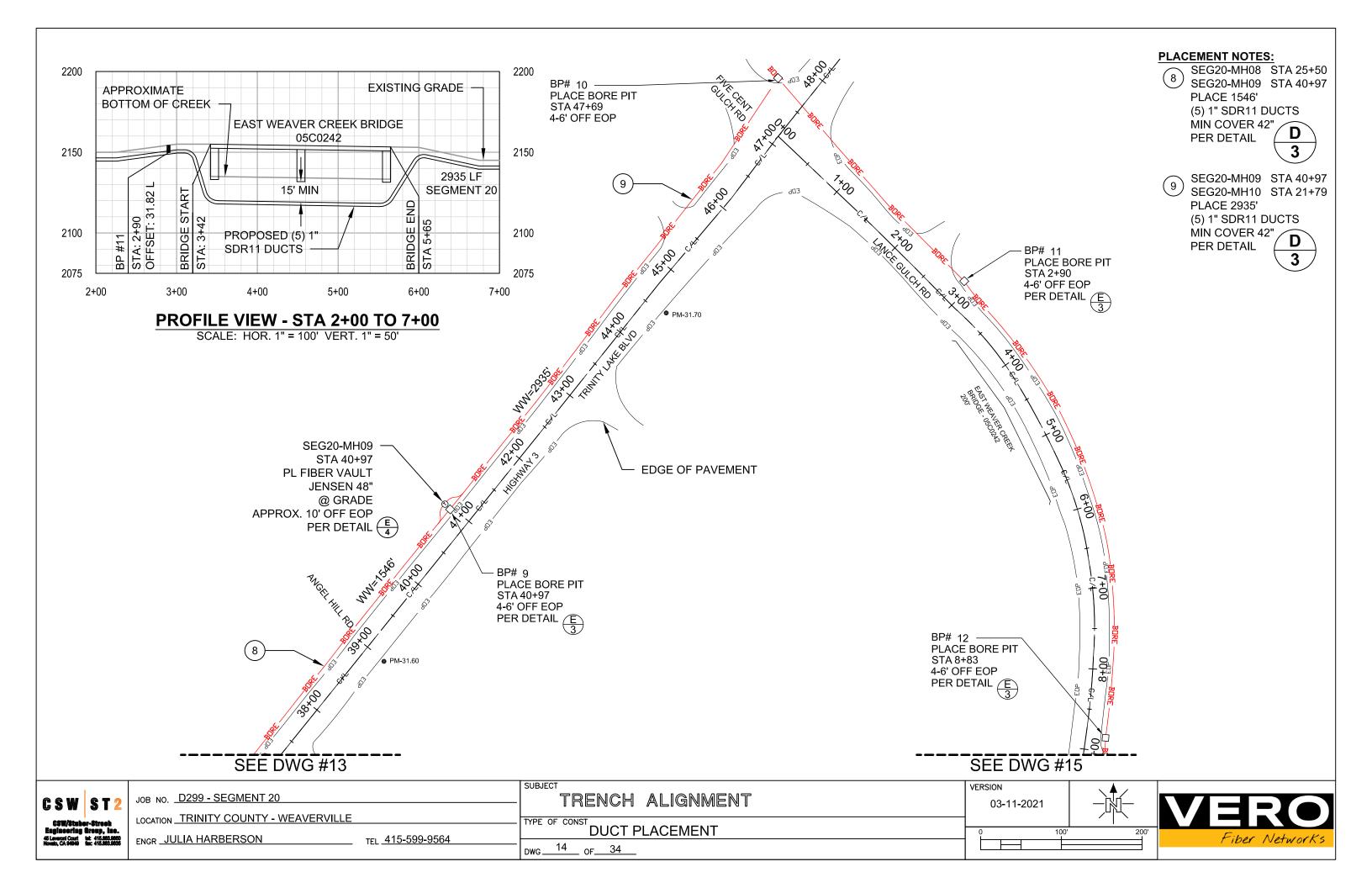
100'

1" = 100'

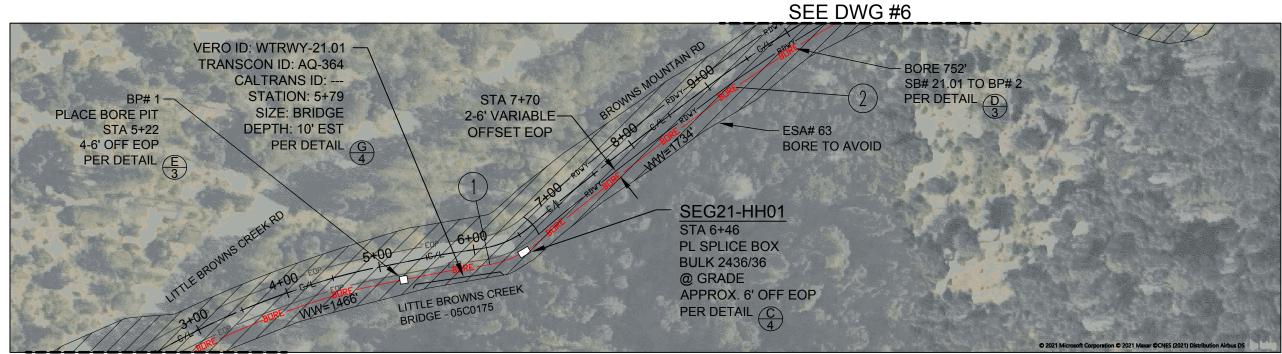
200'

Fiber Network

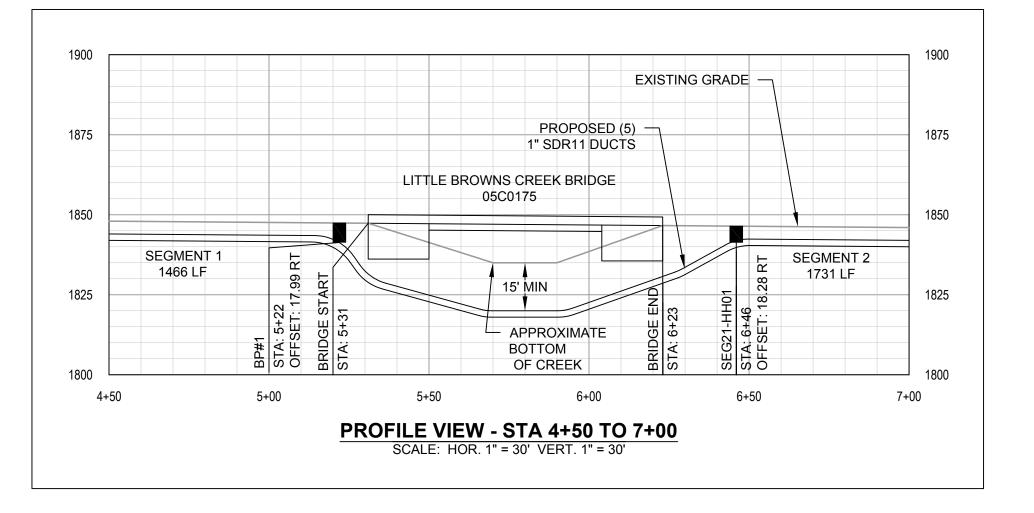
	JOB NO	IRENGA ALIGNMENI	02-26-2
	LOCATION HWY 299 FROM HELENA THROUGH JUNCTION CITY	TYPE OF CONST	
Engineering Group, Inc.	ENGR _ JULIA HARBERSON TEL_415-599-9564	DUCT PLACEMENT	0
45 Leveroni Court tel: 415.883.9850 Noveto, CA 94949 fex: 415.883.9835	ENGR JULIA HARDERSON TEL 415-599-9304	DWG <u>12</u> OF <u>59</u>	



# **SEGMENT 20**







		SUBJECT	VERSI
CSW ST2	JOB NO D299 - SEGMENT 21	LITTLE BROWNS CREEK BRIDGE PROFILE	
			`
CSW/Stuber-Streeh	LOCATION TRINITY COUNTY - LEWISTON TO TRINITY/SHASTA COUNTY LINE		
Engineering Group, Inc. 45 Leveroni Court tel: 415.883.9850	ENGR _ JULIA HARBERSON	DUCT PLACEMENT	<u>_</u>
45 Leveroni Court tel: 415.883.9850 Novato, CA 94949 fax: 415.883.9835	ENGR _ JOLIA HARDERSON 1EL _ 413-333-3304		

## PLACEMENT NOTES:

(1) SEG20-MH16 STA 0+43

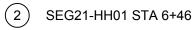
SEG21-HH01 STA 6+46

BORE 1466'

(5) 1" SDR11 DUCTS

MIN 42" COVER

PER DETAIL D, SHEET 3



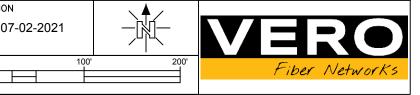
SEG21-HH02 STA 23+65

BORE 1734'

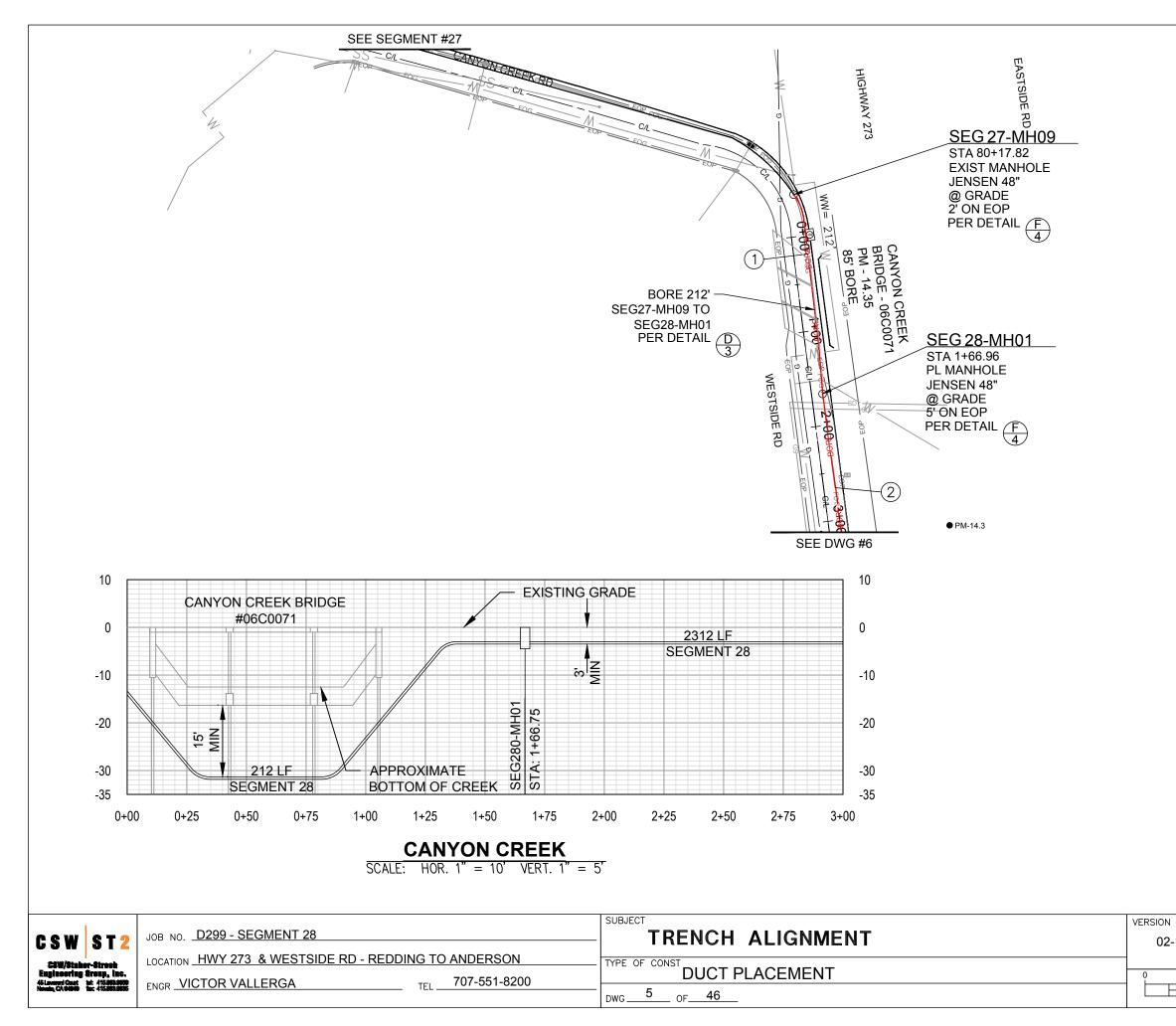
(5) 1" SDR11 DUCTS

MIN 42" COVER

PER DETAIL D, SHEET 3

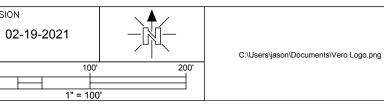


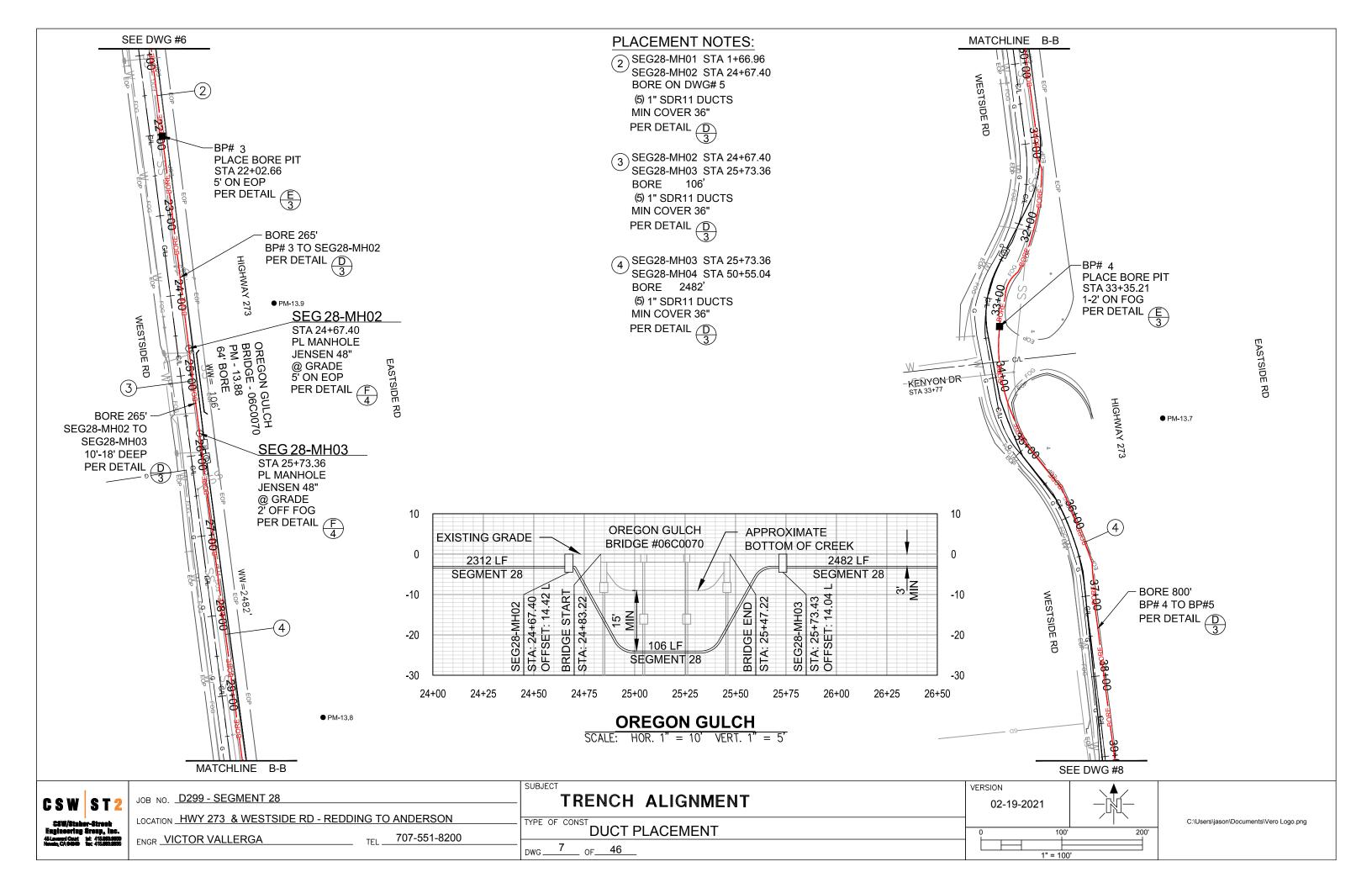
# **SEGMENT 28**

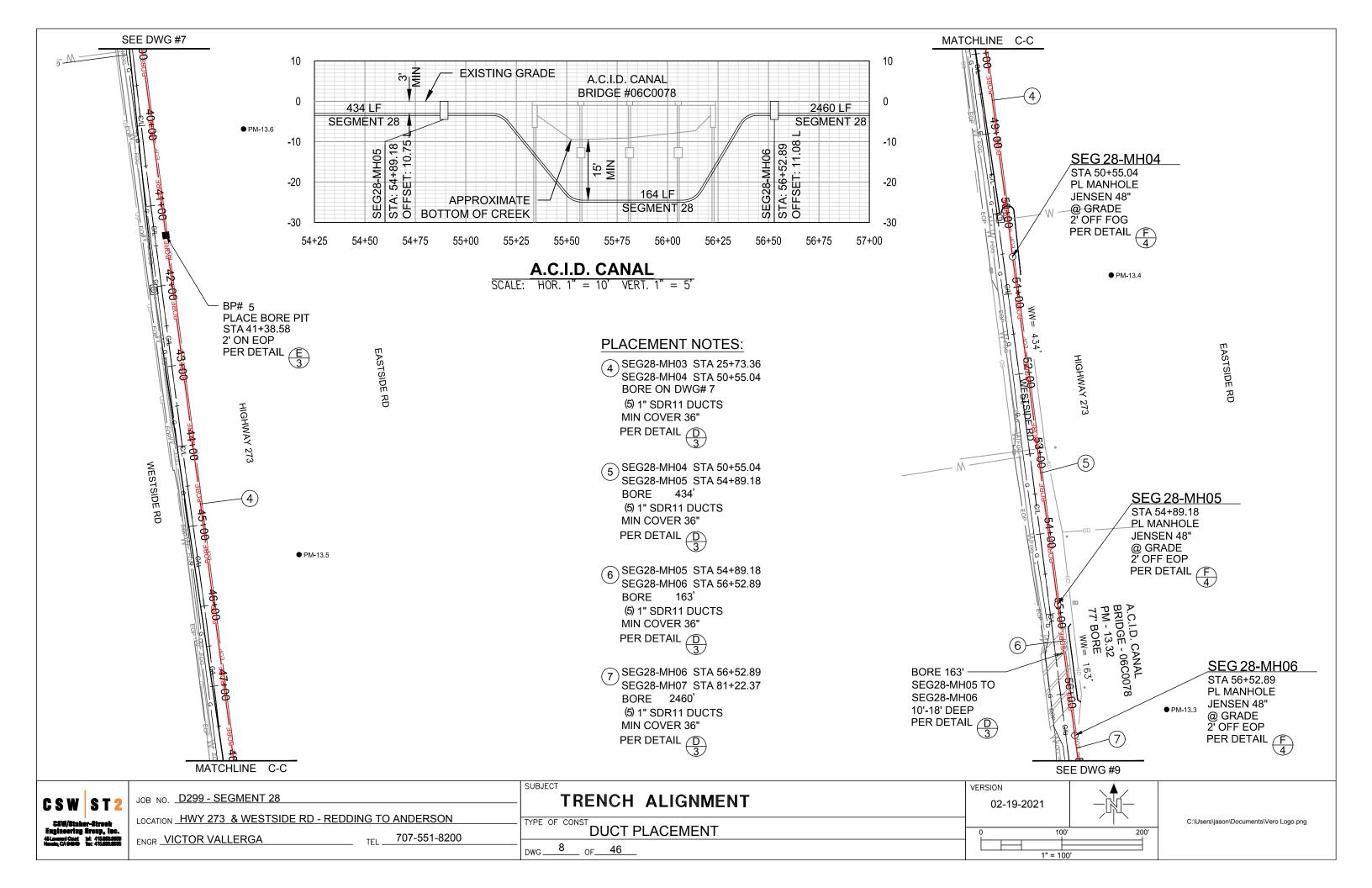


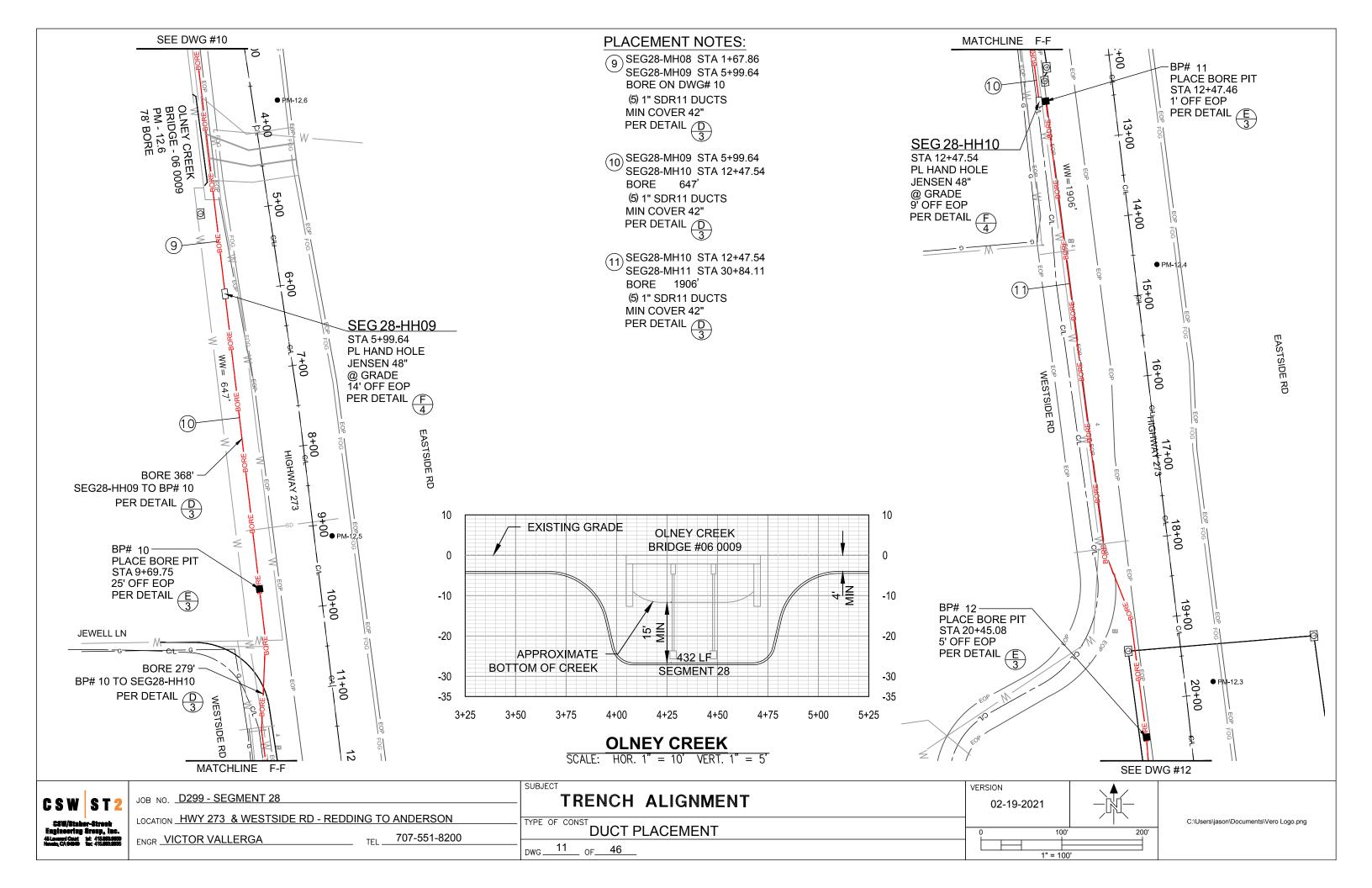
PLACEMENT NOTES: ① SEG27-MH09 STA 80+17.82 SEG28-MH01 STA 1+66.96 BORE 212' (5) 1" SDR11 DUCTS MIN COVER 36" PER DETAIL ① 3

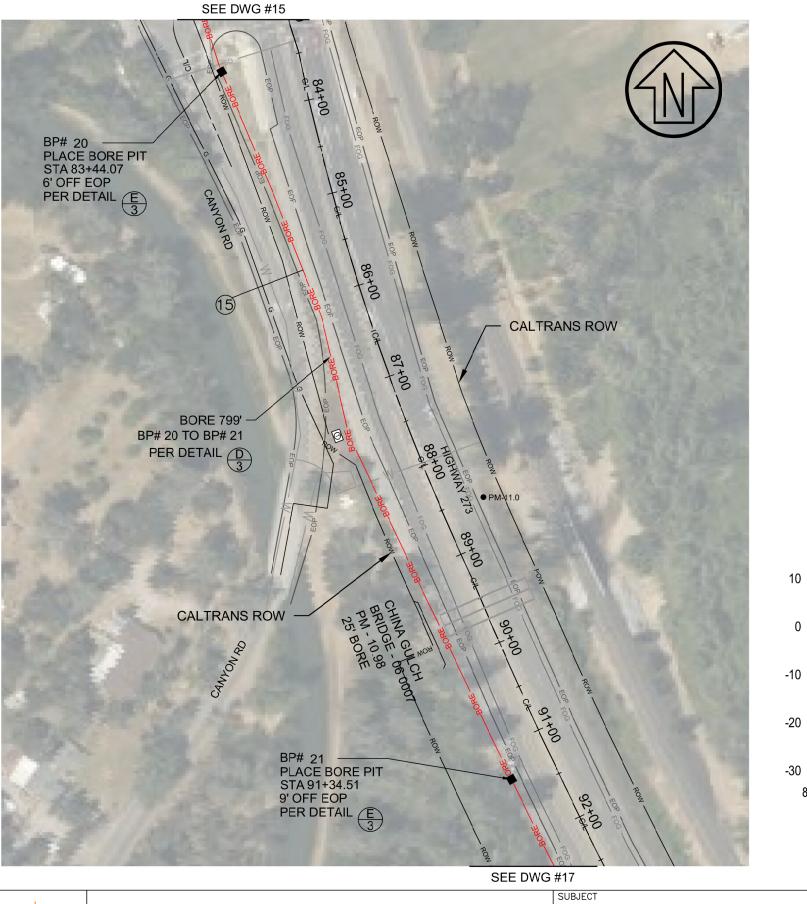
 2 SEG28-MH01 STA 1+66.96 SEG28-MH02 STA 24+67.40 BORE 2312'
(5) 1" SDR11 DUCTS MIN COVER 36" PER DETAIL D 3

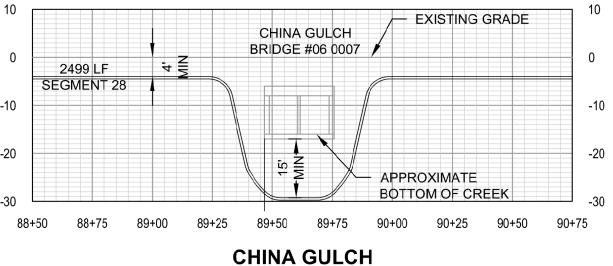






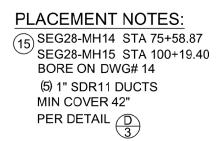


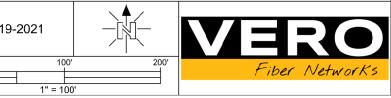




SCALE: HOR. 1" = 10' VERT. 1" = 5'

		SUBJECT	VERSION
CSW ST2	JOB NO	TRENCH ALIGNMENT	02-19-2
CSW/Stuber-Streeh Engineering Group, Inc.	LOCATION HWY 273 & WESTSIDE RD - REDDING TO ANDERSON		- - -
45 Leveroni Court tel: 415.883.9850 Novato, CA 94949 fax: 415.883.9835	ENGR VICTOR VALLERGA TEL 707-551-8200	DWG0F94	





### **APPENDIX B**

## **CONTACT INFORMAION FOR CONTRACTORS**

Crossing ID	Company/Organization	Name/Title	Telephone Number
<u> </u>			

# **APPENDIX C**

## **INSPECTION FORMS**

### PROJECT NAME: \_\_\_\_\_

#### DIALY INSPECTION LOG

DATE	TIME	INSPECTION LOCATION	NOTES	INSPECTOR NME
	7 AM			
	8			
	9			
	10			
	11			
	12 PM			
	1			
	2			
	3			
	4			
	5			
	6			
	7 pm			
	7 AM			
	8			
	9			
	10			
	11			
	12 PM			
	1			
	2			
	3			
	4			
	5			
	6			
	7 pm			

#### **RELEASE INSPECTION AND DOCUMENTATION FORM**

Name and Title: \_\_\_\_\_

Date: \_\_\_\_\_

Location of Release:\_\_\_\_\_

\_\_\_\_\_

Approximate amount of boring actives completed (feet):

Nature of Release:

How release occurred:

Description of sensitive area:

Corrective Action taken:

Attach photograph here