

SPECIFICATIONS
FOR
OROLEVE DITCH PIPE REPLACEMENT PROJECT

PREPARED FOR
NORTH YUBA WATER DISTRICT
P.O. BOX 299
BROWNSVILLE, CA 95919
MARCH, 2020

FOR USE IN CONNECTION WITH
STANDARD SPECIFICATIONS AND STANDARD PLANS DATED 2015 OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION,
REVISED STANDARD SPECIFICATIONS DATED 04-22-2016 ARE INCORPORATED IN PART WITH THESE SPECIAL PROVISIONS,
GENERAL PREVAILING WAGE RATES AND LABOR SURCHARGE, AND EQUIPMENT RENTAL RATES IN EFFECT ON THE DATE THE
PROJECT WORK IS ACCOMPLISHED.

BID OPENING: March XX, 2019, 11:00 AM (PST)

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BID ITEM SECTION REFERENCE

SECTION REFERENCE	ITEM NO.	ITEM DESCRIPTION	UNIT OF MEASURE
9	1	Mobilization	LS
5	2	Construction Survey	LS
13	3	Water Pollution Control Program	LS
17	4	Clearing, Grubbing and Demolition	LS
21	5	Erosion Control	LS
70	6	Open Channel to Pipe Transition (Quickcrete)	EA
70	7	Construct Pipe Outlet	EA
15	8	Modify Existing Wood Flume	EA
70	9	Install Pipe Access Port with Frame and Cover	EA
70	10	Open Channel to Pipe Transition (Shotcrete)	EA
64	11	HDPE Pipe – 36" dia	LF
64	12	HDPE Pipe Fitting	EA
51	13	Install Pipe Strap and Anchor Block – 36" dia	EA
70	14	Construct Sheet Flow Drainage	EA

SPECIAL PROVISIONS

Section 10 GENERAL

The bidder's attention is directed to Section 10 "General" of the Standard Specifications, and these Special Provisions.

Add to section 10-1.06:

Advanced Notification

Add to section 10-1.06A:

Advanced Notification of Agencies

The Contractor shall notify all agencies which may be affected by the construction. Notification shall be in writing and at least 72 hours prior to construction. The notice shall include the project limits, starting date, scheduled date of completion, Contractor contact person and Contractor telephone number.

Add to section 10-1.06B:

Advanced Notification to Residents

The Contractor shall assist North Yuba Water District (NYWD) in notifying all residents, businesses, and tenants that may be affected by or are in the immediate vicinity of the construction at least 72 hours prior to construction. Notification shall be in writing and include a brief description of the project work, starting date, planned date of completion, Contractor contact person and Contractor phone number. Notice shall be hand carried by Contractor Representative. Should a change in the project work schedule occur after the residents and/or businesses have been notified the Contractor shall notify the residents and/or businesses of the change in schedule within 24 hours of the originally scheduled starting date.

END OF SECTION

Section 13 WATER POLLUTION CONTROL

The bidder's attention is directed to Section 13 "Water Pollution Control" of the Standard Specifications and these Special Provisions.

Add to section 13-1.01A:

Schedule all soil disturbing activities such as but not limited to clearing and grubbing, berm excavation, and embankment construction, to occur from April 1, 2020 to June 30, 2020. Deviation from this schedule may void applicability of the Erosivity Waiver and require the Contractor to perform corrective measures to be compliant with the Permit.

THIS JOB IS RISK LEVEL FOR THE PROJECT IS 2.

THE ESTIMATED DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 1.2 ACRES

Discharges of storm water from the project must comply with most current NPDES General Permit for "Storm Water Discharges Associated with Construction and Land Disturbance Activities" (Order No. 2009-009-DWQ, NPDES No. CAS000002, as amended by 2010-0014-DWQ).

Add to section 13-1.01B:

active and inactive areas: (1) Active areas have soil disturbing work activities occurring at least once within 14 days, and (2) Inactive areas are areas that have not been disturbed for at least 15 days.

BMPs: Best Management Practices are water pollution control practices.

construction phase: Construction phases are (1) Highway Construction including work activities for building roads and structures, (2) Plant Establishment including maintenance on vegetation installed for final stabilization, and (3) Suspension where work activities are suspended, and areas are inactive.

CSMP: Construction Site Monitoring Program.

NAL: Numeric Action Level

NEL: Numeric Effluent Limit

NPDES: National Pollutant Discharge Elimination System

NOI: Notice of Intent

normal working hours: The hours you normally work on this project

Preparation Manual: The Department's "Storm Water Pollution Prevention Plan and Water Pollution Control Program Preparation Manual."

QSD: Qualified SWPPP Developer

QSP: Qualified SWPPP Practitioner

REAP: Rain Event Action Plan.

RWQCB: Regional Water Quality Control Board.

SAP: Sampling and Analysis Plan

SSC: Suspended Sediment Concentration

SWRCB: State Water Resources Control Board

SWPPP: Storm Water Pollution Prevention Plan

WDID: Waste Discharge Identification Number

WPC: Water Pollution Control

WPC Manager: Water Pollution Control Manager. The WPC Manager implements water pollution control work described in the SWPPP and oversees revisions and amendments to the SWPPP.

Replace section 13-3.04 with the following:

The contract price paid for the water pollution control program shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved with the water pollution control program including maintaining, conducting daily inspections and removal of, when

completed, the BMPs as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer. All fines due to improper installation of the BMP will be at the Contractors expense.

END OF SECTION

Section 14 ENVIRONMENTAL STEWARDSHIP

The bidder's attention is directed to Section 14 "Environmental Stewardship" of the Standard Specifications and these Special Provisions.

Add to section 14-9.04:

Payment

A fee may be required to obtain a fugitive dust permit. Full compensation for conforming to the provisions in the Section and the requirements of the permit, including the cost of the permit, shall be considered as included in the contract prices paid for the various items of work and no additional compensation will be allowed therefor.

END OF SECTION

Section 15 EXISTING FACILITIES

The bidder's attention is directed to Section 15 "Existing Facilities" of the Standard Specifications and these Special Provisions.

Add to section 15-1.01:

Section includes specifications for modifying the existing facilities below as shown on the plans, specified by the Director and/or Engineer:

1. Wood Flume

Replace section 15-1.04 with the following:

The contract price paid for modifying existing wood flume includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in modifying wood flume as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer.

Payment for handling, removal, and hauling of foreign material shall be included in the payment for other items of work.

END OF SECTION

Section 17 CLEARING, GRUBBING AND DEMOLITION

The bidder's attention is directed to Section 17-2, "Clearing and Grubbing" of the Standard Specifications and these Special Provisions.

Add to section 17-2.01:

In addition, the following existing facilities, as described below and as shown on the contract plans, shall be removed and disposed of by the Contractor:

- i. Existing CMP culverts
- ii. Existing 36" HDPE pipe
- iii. Existing Concrete turn outs
- iv. Existing Slide Gates and Concrete Headwall
- v. Existing Shotcrete Channel Liner
- vi. Existing Trees and Tree Stumps

Do not sell or give away materials from improvements to the general public at the job site. You may sell materials to duly licensed contractors and material vendors provided that you remove the materials from the job site.

Add to section 17-2.03A:

Clear and grub before performing work covered in Section 15.

Replace section 17-2.04 with the following:

The contract price paid for clearing, grubbing and demolition shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in clearing and grubbing including the placement of temporary construction fencing and the removal of all listed items above, as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer.

END OF SECTION

Section 19 EARTHWORK

The bidder's attention is directed to Section 19, "Earthwork" of the Standard Specifications and these Special Provisions.

19-4 BERM EXCAVATION

19-4.01 GENERAL

Section 19-10 includes specification for performing earthwork activities and excavation of the top portion of the existing berm, as shown on the plans.

Berm excavation includes:

1. Remove and dispose of on-site, all excess organic debris and ditch sediment to competent original subgrade
2. Excavation of the top portion of the existing berm to provide minimum 6' wide maintenance access.
3. Placing the excavated material in its final position
4. Removing surcharge material

19-4.02 CONSTRUCTION

Any excavated materials placed in its final position shall be compacted to comply with section 19-5.

19-4.03 PAYMENT

No separate measurement for berm excavation will be made. Payment for all work shall be included in the payment for the other items in these specifications

Section 20 EROSION CONTROL

The bidder's attention is directed to Section 21, "Erosion Control" of the Standard Specifications and these Special Provisions.

Replace section 21-2.04 with the following:

The contract price paid for erosion control shall include full compensation for furnishing all labor materials, tools, equipment and incidentals for doing all work involved in hydroseeding, and as specified in 2015 Standard Specifications and these Special Provisions, and as directed by the Engineer.

END OF SECTION

Section 26 AGGREGATE BASES

The bidder's attention is directed to Section 26, "Aggregate Bases" of the Standard Specifications and these Special Provisions.

Replace the last paragraph in section 26-1.02A with the following:

Aggregate base shall be Class 2, ¾ inch maximum gradation.

Replace section 21-2.04 with the following:

No separate measurement for installing Aggregate Base will be made. Payment for all work shall be included in the payment for the other items in these specifications

END OF SECTION

Section 51 CONCRETE STRUCTURES

The bidder's attention is directed to Section 51, "Concrete Structures" of the Standard Specifications and these Special Provisions.

Add to the end of the numbered list in the second paragraph of section 51-7.01A:

1. Pipe anchor block and strap

Add to section 51-7.02A:

Materials

Pipe anchor blocks shall be the dimensions as shown on the plans and manufactured by Jensen precast or approved equal.

Pipe Strap shall be 2" wide galvanized strap complying to Section 75 of the Standard Specifications

Nuts and bolts shall be galvanized measuring 3/8" dia x 8" long

Add to section 51-7.02B:

Payment

The contract unit price paid for installing pipe strap and anchor block shall include full compensation for furnishing all labor, materials, tools, and equipment, and incidentals and for doing all the work involved in furnishing and installing pipe anchor block, complete in place, including strap, bolt, washer, excavation, backfill, and compaction, as shown on the plans, as specified in the 2015 Standard Specifications and these Special Provisions, and as directed by the Engineer.

END OF SECTION

Section 64 PLASTIC PIPE

The bidder's attention is directed to Section 64, "Plastic Pipe" of the Standard Provisions and these Special Provisions.

Replace the second paragraph of section 64-2.01A with the following

HDPE Plastic Pipe, 36" dia. - Installing plastic pipe includes excavation of the top portions of the existing berm, base preparation, connection of new pipe to new facilities or existing facilities, reinforcement, and other connecting devices.

Replace the first paragraph of section 64-2.02A with the following

Plastic pipe shall be HDPE ADS N-12 pipe with smooth interior wall.

Delete the first paragraph and accompanying table of section 64-2.02B

Replace section 64-2.04 with the following:

The contract price paid for HDPE Pipe shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in installing pipe, complete in place, including excavation of the top portion of the existing berm and backfill, as shown on the plans, as specified in the 2015 Standard Specifications and these Special Provisions, and as directed by the Engineer.

The contract price paid for HDPE Pipe Fittings shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in installing pipe fittings, complete in place, including excavation and backfill, as shown on the plans, as specified in the 2015 Standard Specifications and these Special Provisions, and as directed by the Engineer.

END SECTION

Section 70 MISCELLANEOUS DRAINAGE FACILITIES

The bidder's attention is directed to Section 70 "Miscellaneous Drainage Facilities" of the Standard Specifications and these Special Provisions.

70-8 SHEET FLOW DRAINAGE

70-8.01 GENERAL

Section 70-8 includes specifications for constructing Sheet Flow Drainage as shown in the plans.

Sheet flow drainage includes:

1. Downstream ditch flow barrier
2. Excavated Catch Basin
3. Rock Facing and Geotextile Fabric

70-8.02 MATERIALS

4" interlocking articulating concrete block system installed per manufacturer's recommendation or approved equal.

70-8.03 CONSTRUCTION

Construction and installation Sheet Flow Drainage shall in accordance to the plans.

Downstream ditch barrier shall be constructed with materials excavated from the top of the existing berm and must comply to the plans.

70-8.04 PAYMENT

The contract price paid for constructing Sheet Flow Drainage shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in constructing Sheet Flow Drainage, complete in place, including but not limited to excavation and backfill, pipe culvert installation and rock facing, as shown on the plans, as specified in the 2015 Standard Specifications and these Special Provisions, and as directed by the Engineer.

70-9 PIPE ACCESS PORT WITH FRAME AND COVER

70-9.01 GENERAL

Section 70-9 includes specifications for fabricating and installing pipe access port with frame and cover, as shown on the plans and/or as directed by the engineer.

70-9.02 MATERIALS

HDPE Pipe tee fitting must comply with Section 64 of these Special Provisions.

Concrete frame must comply with Section 90-2 of the 2015 Standard Specifications.

Cover shall be diamond plate or approved equal

70-9.02 CONSTRUCTION

Concrete frame shall be cast in place with fabricated diamond plate cover as shown on the plans or approved equal.

70-9.03 PAYMENT

The contract price paid for fabrication and installing pipe access port with frame and cover shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in fabricating and installing pipe access port, complete in place, including but not limited to excavation and backfill, pipe culvert, frame and cover, as shown on the plans, as specified in the 2015 Standard Specifications and these Special Provisions, and as directed by the Engineer.

70-10 OPEN CHANNEL TO PIPE TRANSITION**70-10.01 GENERAL**

Section 70-9 includes specifications for constructing an open channel to pipe transition and pipe outlet, as shown on the plans, as specified in the 2015 Standard Specifications and these Special Provisions, and as directed by the Engineer.

70-10.02 MATERIALS

Mitered end section shall be HDPE Pipe complying to Section 64 of these Special Provisions.

Shotcrete must comply to Section 53 of the Standard Specifications

Quickrete Bags shall be 80 lbs bags

70-10.02 CONSTRUCTION

Mitered end section shall be HDPE pipe field cut to a dimension shown on the plans.

70-10.03 PAYMENT

The contract price paid for constructing open channel to pipe transition shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in constructing open channel to pipe transition, complete in place, including but not limited to excavation and backfill, shotcrete headwall, quickcrete headwall and mitered end section, as shown on the plans, as specified in the 2015 Standard Specifications and these Special Provisions, and as directed by the Engineer.

END SECTION