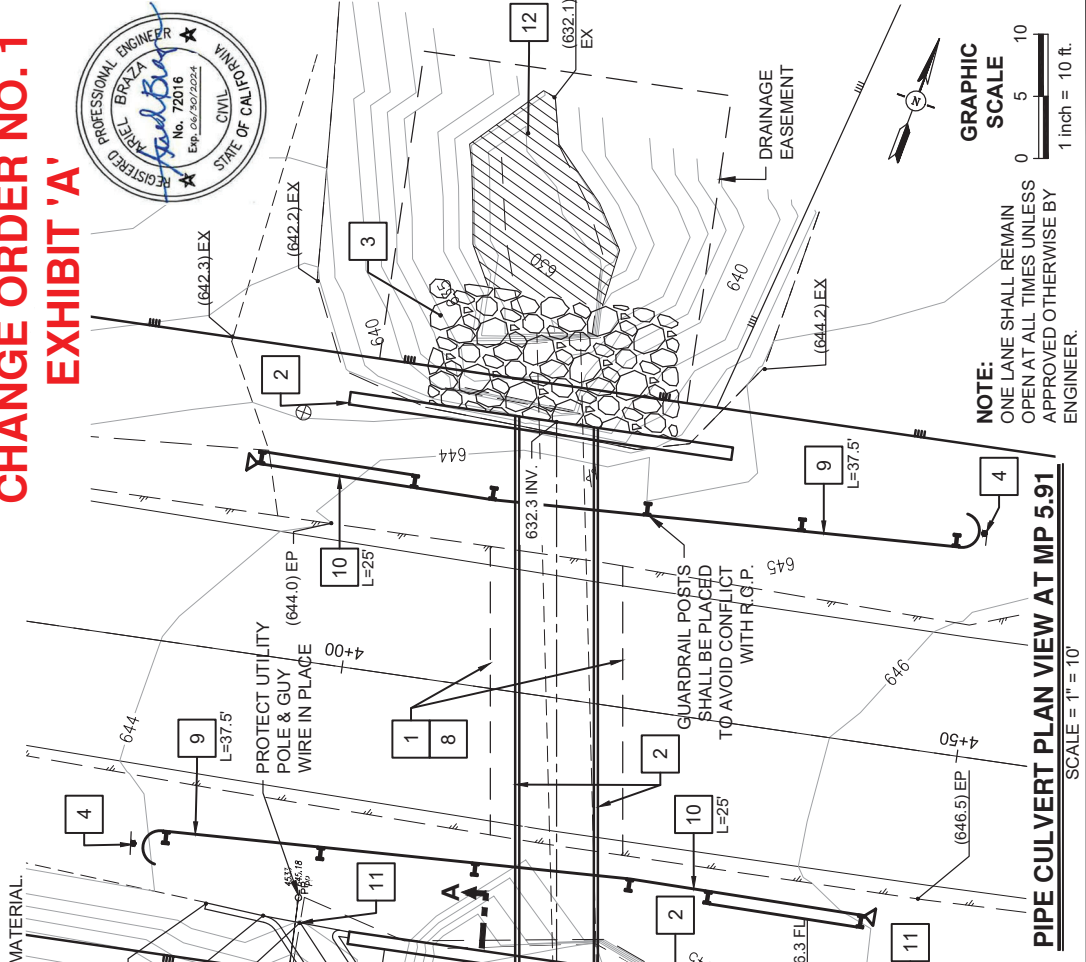


CONSTRUCTION NOTES:

- 1 SAWCUT AND REMOVE EXISTING PAVEMENT, HEADWALLS, CULVERTS, GUARDRAIL, POSTS AND EXCESS MATERIAL.
- 2 INSTALL CLASS II 72" R.C.P. CULVERT AND HEADWALL. CONSTRUCT PIPE CULVERT HEADWALL PER CALTRANS STD. PLAN RSP D90. H=PER PLAN. SEE CULVERT PLAN HEREON. SEE CULVERT PROFILE AND DETAILS SHOWN ON SHEET 4B FOR MORE INFORMATION.
- 3 CONSTRUCT 1-TON RIP-RAP WITH SYNTHETIC FILTER FABRIC, 20' L x 10' W x 4.25' D (DOWNSTREAM) AND 4' W x 4.25' D (ADJACENT TO BOLLARD FOOTING UPSTREAM).
- 4 PLACE OBJECT MARKER TYPE L-1(CA) WITH MILEPOST MARKING PER OBJECT MARKER DETAIL SHOWN ON SHEET 4D.
- 5 INSTALL CONCRETE BOLLARDS AND BOLLARD FOOTING PER DEBRIS BARRIER DETAIL SHOWN ON SHEET 4C. CONTRACTOR SHALL FORM BOLLARD CONCRETE FOOTING WITH 90% OF MAXIMUM DENSITY COMPACTION UNDER FOOTING & BACKFILL. BOLLARDS SHALL BE 10 FOOT LONG, WITH 7 FOOT ABOVE THE TOP OF CONCRETE FOOTING. 6" DIAMETER, SCHEDULE 40 STEEL PIPE, SET 5'-0" O.C. BOLLARDS SHALL BE PLACED IN TWO STAGGERED ROWS 2'-0" O.C. A PART. BOLLARDS SHALL BE FILLED SOLID WITH CONCRETE. OUTSIDE OF BOLLARDS SHALL BE KEPT CLEAN.
- 7 CONSTRUCT 10" THICK REINFORCED CONCRETE APRON AT R.C.P. INLET. SEE SECTIONS A-A AND B-B ON SHEET 4C (646.0) EX FOR MORE DETAILS. APRON MAY BE FORMED OR SHOTCRETE, PER SPECIFICATIONS.
- 8 FOR CULVERT TRENCH BACKFILL SEE TRENCHING DETAILS SHOWN ON SHEET 4D.
- 9 INSTALL FLARED TERMINAL SYSTEM END TREATMENT TYPE SRT-350 PER CALTRANS STD. PLAN RSP A77P1, TYPE 11B WITH STEEL POSTS PER STD. PLAN A77N2. INSTALL GUARDRAIL BUTTERFLY REFLECTORS @ 12.5 FEET INTERVALS.
- 10 INSTALL IN-LINE TERMINAL SYSTEM END TREATMENT TYPE SKT-350 PER CALTRANS STD. PLAN RSP A77P1, TYPE 11A WITH STEEL POSTS PER STD. PLAN A77N2. INSTALL GUARDRAIL BUTTERFLY REFLECTORS @ 12.5 FEET INTERVALS.
- 11 INSTALL 2' WIDE CONCRETE SWALE PER DETAIL SHOWN ON SHEET 4D.
- 12 PLACE ±2' DEPTH OF NATIVE SOIL COMPACT TO 90% COMPACTION. MAINTAIN POSITIVE FLOW DOWNSTREAM.

CHANGE ORDER NO. 1
EXHIBIT 'A'



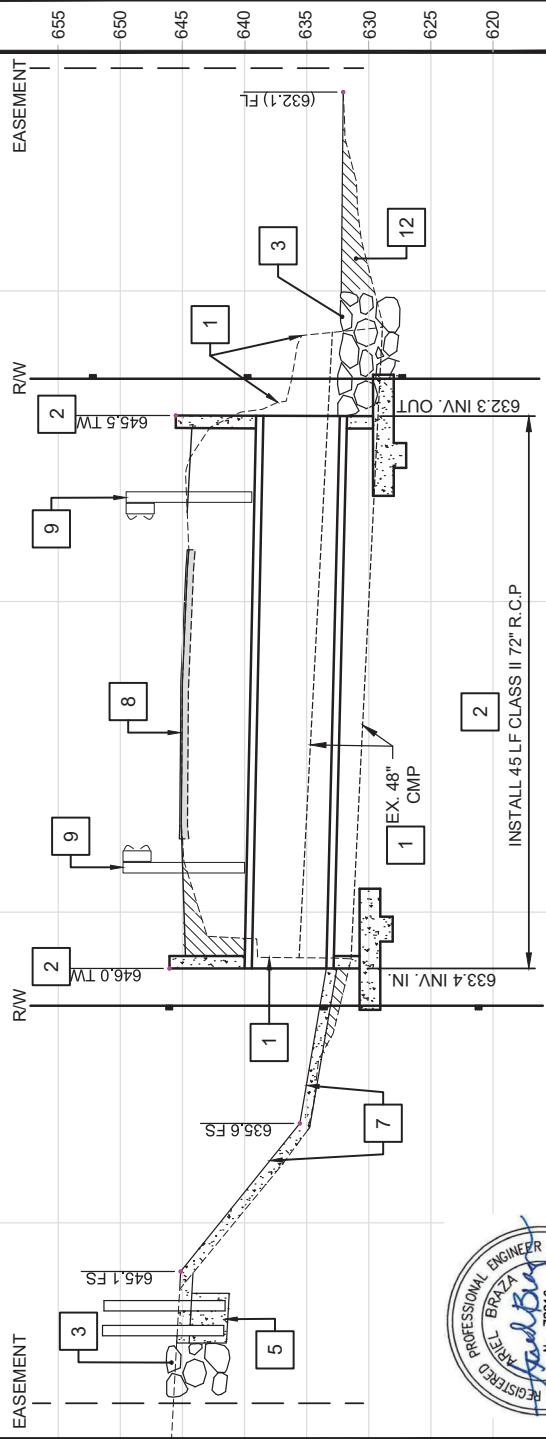
NOTE:
ONE LANE SHALL REMAIN
OPEN AT ALL TIMES UNLESS
APPROVED OTHERWISE BY
ENGINEER.

PIPE CULVERT PLAN VIEW AT MP 5.91
SCALE = 1" = 10'

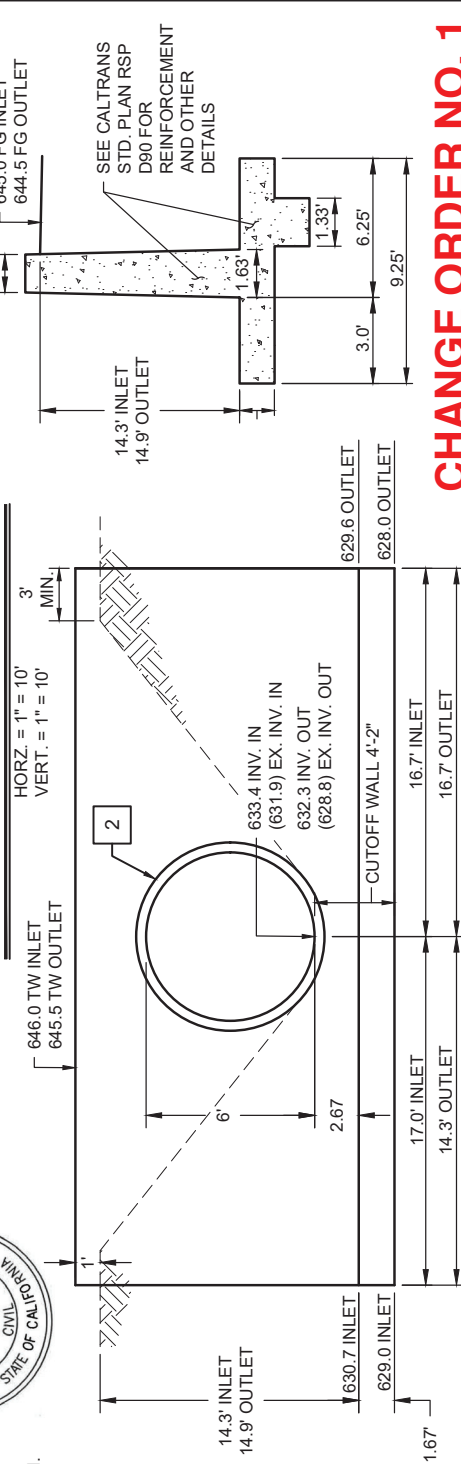
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|----------|-------|------------------------|-----------|---------|--|-------------|---------|
| DESIGNED | AB/JP | COUNTY OF VENTURA | SPEC. NO. | RD23-02 | PAVEMENT RESURFACING | SHEET | 4A |
| DRAWN | JH | PUBLIC WORKS AGENCY | PROJ. NO. | 50631 | GUIBERSON ROAD, RIVERSIDE AVENUE, SESPE STREET | OF | 4 |
| CHECKED | CH | ROADS & TRANSPORTATION | | | GUIBERSON ROAD CULVERT REPLACEMENT AT MP 5.97 | DRAWING NO. | 116505A |
| APPROVED | | | | | | | |

CONSTRUCTION NOTES:

- 1 SAWCUT AND REMOVE EXISTING PAVEMENT, HEADWALLS, CULVERTS, GUARDRAIL, POSTS AND EXCESS MATERIAL.
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- 3 CONSTRUCT 1-TON RIP-RAP WITH SYNTHETIC FILTER FABRIC, 20' L X 10' W X 4.25' D (DOWNSTREAM) AND 4' W X 4.25' D (ADJACENT TO BOLLARD FOOTING UPSTREAM).
- 5 INSTALL CONCRETE BOLLARDS AND BOLLARD FOOTING PER DEBRIS BARRIER DETAIL SHOWN ON SHEET 4C. CONTRACTOR SHALL FORM BOLLARD CONCRETE FOOTING WITH 90% OF MAXIMUM DENSITY COMPACTION UNDER FOOTING & BACKFILL. BOLLARDS SHALL BE 10 FOOT LONG, WITH 7 FOOT ABOVE THE TOP OF CONCRETE FOOTING. 6" DIAMETER, SCHEDULE 40 STEEL PIPE, SET 5'-0" O.C. BOLLARDS SHALL BE PLACED IN TWO STAGGERED ROWS 2'-0" O.C. A PART. BOLLARDS SHALL BE FILLED SOLID WITH CONCRETE. OUTSIDE OF BOLLARDS SHALL BE KEPT CLEAN.
- 7 CONSTRUCT 10" THICK REINFORCED CONCRETE APRON AT R.C.P. INLET. SEE SECTIONS A-A AND B-B ON SHEET 4C FOR MORE DETAILS. APRON MAY BE FORMED OR SHOTCRETE, PER SPECIFICATIONS.
- 8 FOR CULVERT TRENCH BACKFILL SEE TRENCHING DETAILS SHOWN ON SHEET 4D.
- 9 INSTALL FLARED TERMINAL SYSTEM END TREATMENT TYPE SRT-350 PER CALTRANS STD. PLAN RSP A77P1, TYPE 11B WITH STEEL POSTS PER STD. PLAN A77N2. INSTALL GUARDRAIL BUTTERFLY REFLECTORS @ 12.5 FEET INTERVALS.
- 12 PLACE ±2' DEPTH OF NATIVE SOIL COMPACT TO 90% COMPACTION. MAINTAIN POSITIVE FLOW DOWNSTREAM



PIPE CULVERT PROFILE AT MP 5.91



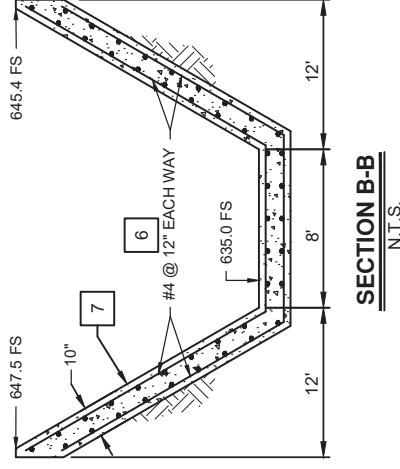
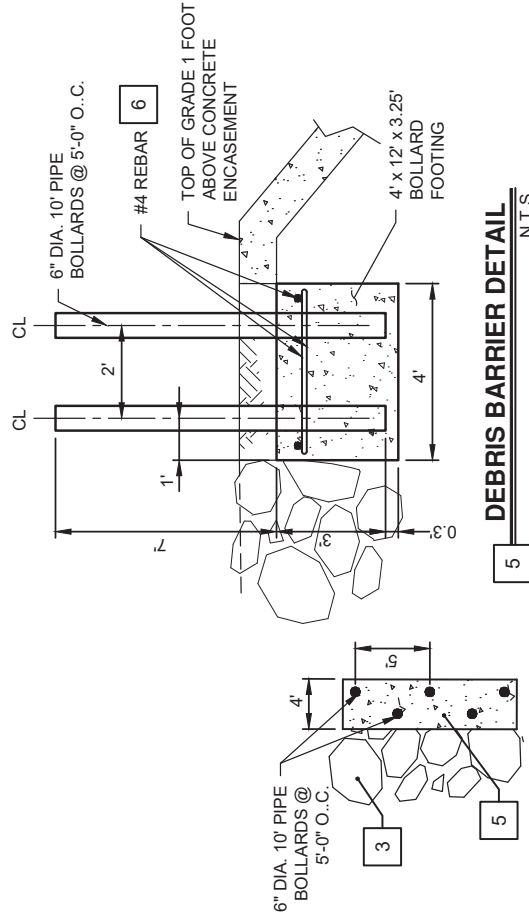
CHANGE ORDER NO. 1
EXHIBIT 'A'

PIPE CULVERT HEADWALL DETAIL

N.T.S.

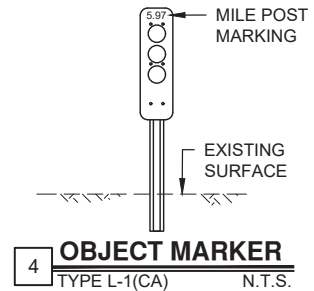
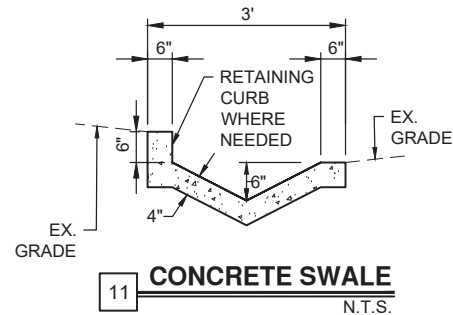
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|----------|-------|------------------------|-----------|---------|--|-------------|---------|
| DESIGNED | AB/JP | COUNTY OF VENTURA | SPEC. NO. | RD23-02 | PAVEMENT RESURFACING | SHEET | 4B |
| DRAWN | JH | PUBLIC WORKS AGENCY | PROJ. NO. | 50631 | GUIBERSON ROAD, RIVERSIDE AVENUE, SESPE STREET | OF | 4 |
| CHECKED | CH | ROADS & TRANSPORTATION | | | GUIBERSON ROAD CULVERT REPLACEMENT AT MP 5.97 | DRAWING NO. | 116505B |
| APPROVED | | | | | | | |

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|---|---|
| 2 | INSTALL CLASS II 72" R.C.P CULVERT AND HEADWALL. CONSTRUCT PIPE CULVERT HEADWALL PER CALTRANS STD. PLAN RSP D90. H=PER PLAN. SEE CULVERT PLAN ON SHEET 4A. SEE CULVERT PROFILE AND DETAILS SHOWN ON SHEET 4B FOR MORE INFORMATION. |
| 3 | CONSTRUCT 1-TON RIP-RAP WITH SYNTHETIC FILTER FABRIC. 20' L X 10' W X 4.25' D (DOWNSTREAM) AND 4' W X 4.25' D (ADJACENT TO BOLLARD FOOTING UPSTREAM). |
| 5 | INSTALL CONCRETE BOLLARDS AND BOLLARD FOOTING PER DEBRIS BARRIER DETAIL SHOWN HEREON. CONTRACTOR SHALL FORM BOLLARD CONCRETE FOOTING WITH 90% OF MAXIMUM DENSITY COMPACTION UNDER FOOTING & BACKFILL. BOLLARDS SHALL BE 10 FOOT LONG, WITH 7 FOOT ABOVE THE TOP OF CONCRETE FOOTING, 6" DIAMETER, SCHEDULE 40 STEEL PIPE, SET 5'-0" O.C. BOLLARDS SHALL BE PLACED IN TWO STAGGERED ROWS 2'-0" O.C. A PART, BOLLARDS SHALL BE FILLED SOLID WITH CONCRETE. OUTSIDE OF BOLLARDS SHALL BE KEPT CLEAN. |
| 6 | #4 REBAR SHALL HAVE 2" CONCRETE COVER. |
| 7 | CONSTRUCT 10" THICK REINFORCED CONCRETE APRON AT R.C.P. INLET. SEE SECTIONS A-A AND B-B HEREON. APRON MAY BE FORMED OR SHOTCRETE. PER SPECIFICATIONS. |



**CHANGE ORDER NO. 1
EXHIBIT 'A'**

| | | | | |
|----------------|--------------|---|---|-------------------------------|
| DESIGNED _____ | AB/JJP _____ | COUNTY OF VENTURA PUBLIC WORKS AGENCY ROADS & TRANSPORTATION | SPEC. NO. RD23-02 | SHEET 4C |
| DRAWN _____ | JH _____ | | | |
| CHECKED _____ | CH _____ | | | |
| APPROVED _____ | _____ | | | |
| | | PAVEMENT RESURFACING | GUIBERSON ROAD, RIVERSIDE AVENUE, SESPE STREET | OF 4 |
| | | | GUIBERSON ROAD CULVERT REPLACEMENT AT MP 5.97 | DRAWING NO. 116505C |



11 | INSTALL 2' WIDE CONCRETE SWALE PER DETAIL SHOWN HEREON.



CHANGE ORDER NO. 1
EXHIBIT 'A'

SHEET 4D
OF 4
DRAWING NO.
116505D

**SPECIAL PROVISIONS FOR CONTRACT CHANGE ORDER NO. 1
CULVERT REPLACEMENT AT GUIBERON RD. MP 5.97****1000 GENERAL REQUIREMENTS****1000-1 DESCRIPTION OF WORK**

Work under this Contract Change Order (CCO) No. 1 consists of replacement of reinforced concrete pipe on Guiberson Road MP 5.97. This work includes public access and notice, traffic control and construction signing, removal of existing structures, structure excavation and backfill, bracing and shoring, 72" reinforced concrete pipe, headwall with straight wingwalls (upstream and downstream), reinforced concrete apron, debris barrier, 2-sack cement slurry, 1-ton rip rap apron (upstream and downstream), 8" thick AC pavement repair, and appurtenant work.

All work shall be performed in accordance with the Plans, the Standard Specifications and these Special Provisions.

1000-2 REFERENCE SPECIFICATIONS & STANDARD PLANS

All Provisions of the existing contract specifications shall apply to this Contract Change Order unless modified herein.

1000-3 WATER POLLUTION CONTROL

This item shall consist of preventing, controlling, and abating discharges of pollutants from the construction site, and shall be performed in accordance with the Standard Specifications and these Special Provisions. The Contractor shall adhere to the approved Storm Water Pollution Control Plan (SWPCP) for the project that covered pollution control measures and best management practices in general for all locations.

1000-3.1 CONSTRUCTION METHODS

All work for Water Pollution Control proposed by the Contractor shall be approved by the Engineer. All work shall be performed in accordance with 7-8 of the Standard Specifications.

If the Contractor determines that discharge of ground water to surface water will be necessary to complete the work, the Contractor shall obtain a Waste Discharge Permit under General National Pollution Discharge Elimination System Permit No. CAG994004 from the California Regional Water Quality Board, Los Angeles Region.

The Contractor will be given an extension of time to obtain the Water Discharge Permit based on a written request to the Engineer in accordance with 6-6.4 of the Standard Specifications.

1000-4 REMOVAL OF EXISTING STRUCTURES

This work consists of the removal of existing 48" RCP culvert, downstream headwalls, AC pavement, and other unwanted materials as specified in these Special Provisions and as shown on the Plans or as directed by the Engineer.

1000-5 STRUCTURE EXCAVATION & BACKFILL

This work consists of unclassified excavation, structure excavation and backfill for the 72" RCP culvert and headwall with wingwalls construction as shown on the Plans and in accordance with the requirements of 300-2, "Unclassified Excavation", 300-3 "Structure Excavation and Backfill" of the Standard Specifications for Public Works Construction (SSPWC) and these Special Provisions.

Unclassified Excavation shall consist of all excavation including roadways. Material that is unsuitable for its planned use shall be excavated and disposed of as directed by the Engineer. Excavation slopes shall be finished in conformance with the lines and grades shown on the Plans. All debris and loose material shall be removed.

Structure Excavation shall consist of the removal of material for the construction of foundations for culverts, headwalls and wingwalls and other excavation shown on the Plans.

Structure backfill shall consist of placing and compacting backfill material around structures to the lines designated on the Plans. Structure backfill shall not be placed until the structure has been inspected by the Engineer and approved for backfilling.

The final exposed surface shall be scarified to a depth of 4 inches, moisture conditioned to within 2 percent of optimum moisture, and recompact to a relative compaction of at least 90 percent (i.e. 90 percent of the maximum dry density determined by ASTM 01557).

Each layer of earth backfill shall be compacted by mechanical means acceptable to the Engineer. Unless otherwise specified, each of earth backfill shall be compacted to a relative compaction of at least 90 percent. Soft or yielding materials shall be removed and replaced with properly compacted fill materials.

Slopes shall be finished in conformance with the lines and grades shown on the Plans or as directed by the Engineer.

1000-6 BRACING & SHORING

This item pertains to shoring and bracing to construct the 72" reinforced concrete pipe culvert, head walls and wing walls that are needed in trenches over 5 feet in depth, as shown on the Plans. Pursuant to the provisions of California Labor Code Section 6707, each bid submitted in response to this Invitation to Bid shall contain, as a bid item, adequate sheeting, shoring, and bracing, or equivalent method for protection of life and limb in trenches and open excavation, which shall conform to applicable safety orders.

1000-7 CEMENT SLURRY FOR PIPE BACKFILL

This work consists of cement and sand slurry to side fill the haunch area of the pipe in trench as shown on Plans and shall be performed in accordance with the Standard Specifications, State of California Department of Transportation Standard Specifications (SSS) Section 19 and these Special Provisions.

Cement slurry shall be placed in the trench against undisturbed soil and shall be placed in a manner that will prevent floating or shifting of the pipe. Trenches shall be backfilled with a 2-sack cement slurry from the top of the bedding up to the springline or horizontal centerline of the pipe. 2-sack cement slurry shall consist of 188 pounds (2 bags) of cement for each cubic yard of sand.

Contractor is cautioned to avoid floating the pipe when cement slurry is placed under the haunches of the pipe.

1000-8 REINFORCED CONCRETE PIPE CULVERT

This item shall consist of construction of 45 LF of 72" Reinforced Concrete Pipe Culvert including trench preparation and all related joints and connection to the upstream and downstream walls, and other appurtenances as shown on the Plans and shall conform to provisions in Section 207-2, "Reinforced Concrete Pipe" and Section 306, "Open Trench Conduit Construction" of the SSPWC and these Special Provisions

1000-8.1 CONSTRUCTION MATERIALS

72" Reinforced Concrete Pipe (RCP), Class II as shown on the Plans.

1000-8.2 CONSTRUCTION METHODS

Reinforced Concrete Pipe culvert installations shall comply with special bedding and backfill requirements as shown on the Plans, Standard Plan A62G, and these Special Provisions.

1000-8.3 TRENCHING & BEDDING

The RCP culvert sections may be placed in a shored trench or open cut. All trenches shall have a combination of slopes conforming to CAL/OSHA requirements. Trench bottoms shall be prepared immediately preceding the installation of the RCP culvert.

The minimum thickness of bedding or base material is 6-inches. The bedding, comprised of medium granular material, should be constructed to provide uniform support for the full length and width of each section. This may be accomplished by placing on top of the base material, a 2-inch minimum thickness leveling course consisting of fine granular material graded as required.

1000-8.4 REINFORCED CONCRETE PIPE LAYING

RCP culvert shall be laid to the lines and grades as shown on the plan. RCP culvert shall not be placed in water or when the trench or weather is unsuitable for such work. Grades and alignment shall be established in the trench by conventional survey techniques, or by use of a laser. A laser or string line shall be established in the trench along the centerline of the proposed RCP culvert, said line being used to determine the horizontal and vertical location of each joint of RCP culvert.

1000-9 HEADWALL WITH STRAIGHT WINGWALLS

Construction of Headwall with Straight Wingwalls shall conform to the provisions in Section 51, "Concrete Structures," Section 52, "Reinforcement" and other applicable subsections of the SSS, SSPWC, and these Special Provisions.

The existing soil material directly below the headwall and wingwall footings shall be over-excavated and re-compacted to provide a firm, uniform bearing layer.

1000-10 DEBRIS BARRIER

This work shall consist of construction of a Debris Barrier, constructed of an array of steel pipe bollards and embedded in a concrete foundation as shown on the Plans and shall be performed in accordance with the Standard Specifications and these Special Provisions.

1000-10.1 MATERIAL

Debris Barrier shall be 6" diameter schedule 40 steel pipe bollards. Concrete shall be 3250 psi with rebar reinforcement.

1000-11 REINFORCED CONCRETE APRON

This work shall consist of furnishing, forming or shotcrete, placing, finishing and curing Portland cement concrete and furnishing and placing steel reinforcement as required to construct the Reinforced Concrete Apron as shown on the Plans and shall be performed in accordance with the Standard Specifications and these Special Provisions.

1000-11.1 MATERIAL

Concrete shall be Class 560-C-3250 with a minimum thickness of 10 inches. Steel bars for concrete reinforcement shall be carbon steel deformed bars.

1000-12 RIP RAP APRON

Rip Rap Apron shall consist of 1-ton rock rip rap with filter fabric on both upstream and downstream; Rip Rap Apron at MP 5.97 shall consist of, ½-ton rock rip rap with filter fabric and shall conform to the provisions in Section 200-1.6, "Stone for Riprap" of the Standard Specifications, as shown on the Plans, and these Special Provisions. Filter blanket shall consist of synthetic filter fabric per Section 213-5, "Geotextiles and Geogrids" of the Standard Specifications.

1000-12.1 ROCK RIP RAP SIZE

1-Ton Rock Riprap

No more than 10% of the rock will have a diameter greater than 36 inches;
No more than 50% of the rock will have a diameter less than 30 inches;
No more than 10% of the rock will have a diameter less than 24 inches.

1000-12.2 RIP RAP APRON DIMENSION

- A. 1-Ton Rip Rap (upstream)
= 4.25' thick x 4' wide x length adjacent to bollard footing
- B. 1-Ton Rip Rap (downstream)
= 4.25' thick x 20' wide x 10' long

1000-13 CONCRETE SWALE

This section includes minor concrete work for construction of concrete swales as shown on the plans.

1000-13.1 CONSTRUCTION METHODS

Concrete swale shall comply to Section 51-7, "Minor Structures and other applicable subsections of the SSS, 302-6 of the SSPWC, and these Special Provisions. All material beneath the concrete shall be compacted to 95% relative density.

1000-13.2 MATERIALS

Minor Concrete shall be PCC (Portland Cement Concrete) as shown on the Plans. Concrete shall be Class 520-C-2500.

1000-14 AC PAVEMENT REPAIR

This section covers AC pavement that will be constructed as shown on the Plans, marked in the field, and as specified in these Special Provisions.

The material below the proposed paving surface shall be graded and compacted to receive 8" thick of asphalt concrete pavement directly over it. The sub-grade preparation shall be per SSPWC 301-1. The sub-grade material shall be compacted to 95 percent relative compaction. Preparation of areas and placing of materials shall be in accordance with 300-4 of the SSPWC and these Special Provisions.

Backfill materials shall be spread evenly, with loose lifts no thicker than 8 inches, and shall be thoroughly blade mixed during spreading to provide relative uniformity of material within each layer. Soft or yielding materials shall be removed and replaced with properly compacted fill materials.

Asphalt concrete shall be placed in two equal lifts and compacted, as specified in 302-5.5 and 302-5.6 of the Standard Specifications, prior to placing the next layer.

1000-14.1 JOINING EXISTING PAVEMENT

Where new asphalt concrete pavement is placed against existing pavement, the pavement shall be saw cut in a manner that will not result in ragged and loose edges of the existing pavement. Tack coat shall be applied to exposed edges of the existing pavement per 302-5.4 of the Standard Specifications.

1000-14.2 MATERIAL

Asphalt concrete used in AC Pavement Repair shall be B-PG64-10.

1000-14.3 DISPOSAL SITE

All material designated for removal and disposal shall be lawfully disposed at a site in accordance with local ordinances and all applicable laws.

1000-15 REMOVAL OF EXISTING & INSTALLATION OF NEW GUARDRAIL

This work consists of removal of existing guardrail and installation of new guardrail on Guiberson Road at MP 5.97, and shall be in accordance with the Plans, these Special Provisions, and the Standard Specifications.

1000-15.1 REMOVAL & DISPOSAL OF EXISTING GUARDRAIL

The Contractor shall stage removals, with proposed improvements, to maximize guardrail protection to traveling public.

The Contractor shall dismantle and remove railing, remove end treatments, notched blocks, detach steel posts from bridge and or road surface, and excavate wood posts (when in-ground). All removed guardrail components shall become the property of the Contractor and shall be disposed of in a manner and location satisfactory to the Engineer.

1000-15.2 INSTALLATION OF NEW GUARDRAIL

New guardrail and all associated components shall be furnished & installed in conformance with Section 83-2, "Railings," of the SSS, SSP, Caltrans Traffic Manual, Chapter 7, "Traffic Safety Systems," all of the items detailed as shown on the Plans, as marked on the field, and these Special Provisions.

MIDWEST GUARDRAIL SYSTEM

MGS with steel post & notched wood block shall be used per Caltrans Standard Plan A77N2.

TERMINAL SYSTEM END TREATMENT

Flared Terminal System shall be SRT-31 System by Trinity Industries, Inc., or a County approved equal and shall include items as shown on the Plans.

In-Line Terminal System shall be SKT-SP-MGS manufactured by Road Systems, Inc., and shall include items as shown on the Plans.

Terminal systems shall be installed in conformance with the manufacturer's installation instructions.

Surplus excavated material remaining, after the terminal system has been installed, shall be disposed of in a uniform manner along the adjacent roadway where designated by the Engineer.

BUTTERFLY GUARDRAIL PROTECTOR

Butterfly Guardrail Reflector shall be placed at every 12.5 feet intervals and mounted Bolt-On style reflectors behind post bolts with the reflector's prongs pointed towards oncoming traffic. Bolt must be tightened securely over two prongs of the reflector deep into slot provided. Reflector overall height shall be 2-3/4".

1000-16 MEASUREMENT & PAYMENT

Payment for construction and all work under this Contract Change Order No. 1 shall be made at the lump sum price agreed upon by the Contractor and the County. Such payment shall be considered full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work.