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CALIFORNIA COASTAL COMMISSION

SOUTH CENTRAL COAST AREA
19 SOUTH CALIFORNIA ST., SUITE 200
VENTURA, CA 93001
(805) 641-0142



RECORD PACKET COPY

Filed: 1/31/2000
49th Day: 3/20/2000
180th Day: 7/29/2000
Staff: M.H. Capelli
Staff Report: 2/22/2000
Hearing Date: 3/14-17/2000
Commission Action:

40

STAFF REPORT: CONSENT CALENDAR

APPLICATION NO.: 4-00-006

APPLICANT: Level 3 Communications, Inc.

PROJECT LOCATION: Along Union Pacific Railroad right-of-way between mile-post 288.10 and 299.20 within Vandenberg Air Force Base, Santa Barbara County

PROJECT DESCRIPTION: Installation of approximately 11 miles of fiber-optic cable along the Union Pacific Railroad right-of-way, within Vandenberg Air Force Base.

LOCAL APPROVALS RECEIVED: None

SUBSTANTIVE FILE DOCUMENTS: Application 4-00-006. Negative Declaration (IX); Biological Survey Report Level (3) Communications Fiber-optic Innerduct Systems, San Luis Obispo to Burbank Prepared by Parsons Brinkerhoff Newtwork Services and Chambers Group, Inc., October 1999.

SUMMARY AND STAFF RECOMMENDATION: Approval with special conditions regarding timing of construction to protect migratory bird resources, erosion control and revegetation of disturbed areas to protect aquatic habitats.

I. STAFF RECOMMENDATION

MOTION: *I move that the Commission approve Coastal Development Permit No. 4-00-006 pursuant to the staff recommendation.*

STAFF RECOMMENDATION OF APPROVAL:

Staff recommends a YES vote. Passage of this motion will result in approval of the permit as conditioned and adoption of the following resolution and findings. The motion passes only by affirmative vote of a majority of the Commissioners present.

RESOLUTION TO APPROVE THE PERMIT:

The Commission hereby approves a coastal development permit for the proposed development and adopts the findings set forth below on grounds that the development as conditioned will be in conformity with the policies of Chapter 3 of the Coastal Act and will not prejudice the ability of the local government having jurisdiction over the area to prepare a Local Coastal Program conforming to the provisions of Chapter 3. Approval of the permit complies with the California Environmental Quality Act because either 1) feasible mitigation measures and/or alternatives have been incorporated to substantially lessen any significant adverse effects of the development on the environment, or 2) there are no further feasible mitigation measures or alternatives that would substantially lessen any significant adverse impacts of the development on the environment.

II. Standard Conditions

1. **Notice of Receipt and Acknowledgment.** The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.
2. **Expiration.** If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.
3. **Compliance.** All development must occur in strict compliance with the proposal as set forth in the application for permit, subject to any special conditions set forth below. Any deviation from the approved plans must be reviewed and approved by the staff and may require Commission approval.
4. **Interpretation.** Any questions of intent or interpretation of any condition will be resolved by the Executive Director or the Commission.

5. Inspections. The Commission staff shall be allowed to inspect the site and the project during its development, subject to 24-hour advance notice.
6. Assignment. The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.
7. Terms and Conditions Run with the Land. These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.

III. Special Conditions

By acceptance of the permit conditions, the applicant agrees that:

1. All construction activity shall be prohibited during the period October 15 through April 15 to avoid the migratory bird and rainy season.
2. Prior to the issuance of a coastal development permit for this project the applicant shall submit for the review and approval of the executive director, an erosion control plan which describes how the sites disturbed by excavation and filling will be treated to prevent erosion of the site into adjacent aquatic habitats. This erosion control plan shall at a minimum include installation of sediment barriers around all stockpiles of excavated soils, and reseeded of graded, exposed or disturbed areas with a mix of native seed materials appropriate for coastal riparian habitats.
3. Prior to the issuance of a coastal development permit for this project the applicant shall submit for the review and approval of the executive director, a revegetation plan which describes how the sites disturbed by excavation and filling will be revegetated to replace all disturbed plant habitats. This revegetation plan shall at a minimum include replacement of all disturbed or destroyed native vegetation, and reseeded of graded, exposed or disturbed areas with a mix of native seed materials appropriate for coastal riparian habitats. The revegetated plan shall include monitoring of all revegetated areas for at five years after completion of the project, and specific provisions for revegetating areas that have not been successfully revegetated at the end of this period.

IV. Findings and Declarations

1. Background

The applicant is proposing the installation of approximately 215 miles of buried fiber-optics cable line from San Luis Obispo to Burbank, portions of which are located within the Coastal Zone. The purpose of the project is to provide a fiber-optics network for internet technology. The installation of the segment from San Luis Obispo to Burbank is

part of a larger plan to establish a data traffic line between facilities in San Francisco and Sacramento to facilities in Los Angeles and San Diego. An 11-mile portion of the San Luis Obispo to Burbank segment falls within the northern portion of Vandenberg Air Force Base and is subject to the Commission's retained original coastal permitting jurisdiction. (See Exhibits 1 through 3.)

2. Project Description

The project involves the installation of approximately 11 miles of fiber-optic line within the Union Pacific Railroad right-of-way. The fiber-optic cable will be installed on the inland side of the right-of-way by directional boring (with two exceptions involving trenching) to a depth of approximately five feet and a width of one foot. After the innerduct is buried, the fiber-optic cable will be pulled through the innerduct and splice at regularly spaced handholes. The handholes are round structures approximately 36 inches in diameter made of concrete and fiberglass, and will be buried approximately 6 to 24 inches below the surface or may be at grade. The handholes will be located approximately every 3,600 feet along the right-of way, so that there will be approximately 16 handholes in the 11 mile reach which is the subject of this permit. (See Exhibits 4 through 14.) Access to the cable route will be via existing roads. All staging areas will be within the Union Pacific Railroad right-of-way.

The project area includes one major water course (the Santa Ynez River) and several unnamed drainages. The crossing of the Santa Ynez River will be by directional boring. The boring operation will utilize a mobile boring rig and will be staged on one side of the river crossing. The directionally buried innerduct will be installed a minimum of 20 feet below the stream bed or wetland, with the surface entry and exit of the directional drill generally 125 feet back from the top of the channel bank. The disposal of any cutting generated by the directional boring will be outside of the coastal zone at an approved designated disposal site. (See Exhibit 4.) At two unnamed drainages (mile-posts 294.98 and 295.93) the proposal is to trench through the drainages if they are dry, or directionally bore under them if they are wet. Both the trenching and boring will occupy a space 1 to 2 feet in width.

Following installation of the innerduct all surface soils which have been disturbed will be restored and revegetated within two days. In the case of open trenching, selected compact filling will be placed in the trench prior to regrading and revegetation. In areas where there is potential for erosion due to topographical or hydrological conditions, site-specific measures will be implemented pursuant to a Stormwater Pollution Prevention Plan approved by the Regional Water Quality Control Board.

The proposed project is scheduled to be initiated in the Spring of 2000 and take approximately eight weeks to complete.

3. Coastal Act Issues

a. Environmentally Sensitive Habitats

PRC Section 30231 provides, in relevant part, that:

The biological productivity and the quality of coastal waters, streams, estuaries. . . appropriate to maintain optimum populations of marine organisms and for the protection of human health shall be maintained and, where feasible, restored through, among other means, minimizing adverse effects of wastewater discharge and . . . controlling runoff. . maintaining natural vegetation buffer areas that protect riparian habitats, and minimizing the alteration of natural streams.

PRC Section 30240 provides, in part, that:

- (a) Environmentally sensitive habitat areas shall be protected against any significant disruption of habitat values . . .
- (b) Development of areas adjacent environmentally sensitive habitat areas and parks and recreation areas shall be sited and designed to prevent impact which would significantly degrade those areas, and shall be compatible with the continuance of those habitat and recreation areas.

The proposed fiber-optic cable route passes through the northern portion of Vandenberg Airforce base within the Union Pacific Railroad right-of-way. This portion of the route is dominated by coastal dune habitat. Several bodies of standing water associated with wetland vegetation lie adjacent to the alignment throughout the northern portion of Vandenberg Air Force Base. A survey of the sensitive plant and animals within the vicinity of the project route has been performed, and the location of sensitive species identified within and adjacent to the project route.

In addition to the coastal dune habitat that dominates the project area, other notable habitats include the Santa Ynez River Estuary, and several unnamed drainages. Sensitive animal species found within the project area include the California red-legged frog, Western spadefoot toad, California tiger salamander, Tricolored blackbird, Southwest willow flycatcher, Western snowy plover, Tidewater goby, California least tern, and Southern steelhead trout. Sensitive plant species include the La graciosa thistle, Marsh sandwort, Gambles watercress, and Seaside bird's beak. Endemic to the region is the Burton Mesa chaparral plant community, which is located to the east of the Union Pacific Railroad right-of-way.

As noted above, the project is confined to the right-of-way of the Union Pacific Railroad route through the project area, with access to the cable route be via existing roads.

The project area includes one major water course (the Santa Ynez River) and several unnamed drainages. The crossing of the Santa Ynez River will be by directional boring. The directional boring process involves placement of a sleeve approximately 8 to 10 inches in diameter as a casing for the fiber-optic cables. The boring operation will utilize a mobile boring rig and will be staged on one side of the river crossing. The directionally buried innerduct will be installed a minimum of 20 feet below the stream bed or wetland, with the surface entry and exit of the directional drill generally 125 feet back from the top of the channel bank. The disposal of any cutting generated by the directional boring will be outside of the coastal zone at an approved designated disposal site. (See Exhibit 4.) The directional boring under the Santa Ynez River estuary will avoid any disturbance to the estuary and related sensitive species such as the Tidewater goby.

As noted the fiber-optic cable will also cross two unnamed drainages. One drainage at mile-post 294.98 is approximately 25 feet in width; the other at mile-post 295.93 is approximately 30 feet in width. At these two unnamed drainages, the proposal is to trench through the drainages if they are dry, or directionally bore under them if they are wet. The length of boring for the drainage at mile-post 294.98 would be approximately 654 feet; the length of boring for the drainage at mile-post 295.93 would be approximately 744 feet. Both the trenching and boring will occupy a space 1 to 2 feet in width. No sensitive species of plants or animals have been identified in these two areas during pre-project surveys; however, these areas would be monitoring by biological monitors during installation of the fiber-optic cable.

South of the Santa Ynez River before the fiber-optic cable route turns inland, the route runs parallel to Surf Beach that is a designated critical habitat for the federally listed Western Snowy plover. As noted above, the fiber-optic cable will be installed on the inland side of the Union Pacific Railroad right-of-way, and therefore would not intrude upon or adversely affect this habitat.

To address the potential encounter of species not previously identified in pre-project surveys, biological monitors will be onsite whenever construction activities occur through areas identified as sensitive habitats. A menu of specific avoidance measures has been identified when sensitive species are encountered. These include the following:

- Bore under sensitive habitat when practicable
- Implement erosion control measures during construction
- Remove cover vegetation as close to the time of construction as possible

- Confine construction equipment and associated activities to the construction corridor (approximately 20 feet wide)
- Re-establish streambank contours following construction and install permanent erosion control as needed
- Refueling of construction equipment greater than 100 feet from aquatic environments
- Maintain hazard material spill kits in proximity to aquatic crossings
- Implement a spill prevention and response plan
- Restore site topography concurrently with innerduct installation
- Remove all innerduct installation debris, construction spoils, materials, and litter
- Complete post-construction monitoring and supplemental revegetation where needed pursuant to the Site Reclamation and Revegetation Plan.

Following installation of the innerduct all surface soils that have been disturbed will be restored and revegetated within two days. In the case of open trenching, selected compact filling will be placed in the trench prior to regrading and revegetation. In areas where there is potential for erosion due to topographical or hydrological conditions, site-specific measures will be implemented pursuant to a Stormwater Pollution Prevention Plan approved by the Regional Water Quality Control Board.

The project as proposed, including the provision of monitoring during construction and site specific and project wide mitigation measures will not adversely impact any environmentally sensitive habitats. However, to ensure that construction activities will not adversely affect or impact sensitive species, particularly migratory bird species, and to avoid the potential erosion and sedimentation of aquatic habitats, construction activities must be limited to avoid the period from October 15 through April 15. Special Condition #1 requires that all construction activity shall be prohibited during the period October 15 through April 15 to avoid the migratory bird period and the rainy season.

Additionally, the project has the potential to result in erosion and sedimentation of adjacent aquatic habitats as well as encourage the colonization of disturbed sites with non-native invasive plant species. To minimize this risk it is necessary to develop and implement a specific erosion control and revegetation plan for the disturbed sites within the project area covered by this permit.

Special Condition #2 requires that the applicant shall submit for the review and approval of the executive director, an erosion control plan which describes how the sites disturbed by excavation and filling will be treated to prevent erosion of the site into adjacent aquatic habitats. This erosion control plan shall at a minimum include installation of sediment barriers around all stockpiles of excavated soils, and reseeding of graded, exposed or disturbed areas with a mix of native seed materials appropriate for coastal riparian and dune habitats.

Special Condition #3 requires that the applicant shall submit for the review and approval of the executive director, a revegetation plan that describes how the sites disturbed by excavation and filling will be revegetated to replace all disturbed plant habitats. This revegetation plan shall at a minimum include replacement of all disturbed or destroy native vegetation species, and reseeding of graded, exposed or disturbed areas with a mix of native seed materials appropriate for coastal riparian and dune habitats; additionally, provisions for monitoring and revegetation of unsuccessful planting must be included in the revegetation plan.

The Commission finds that the proposed project, as conditioned, is consistent with and adequate to carry the provisions of PRC Sections 30231 and 30240.

b. Public Access/Recreation

PRC Section 30210 provides that:

In carrying out the requirement of Section 4 of Article X of the California Constitution, maximum access, which shall be conspicuously posted, and recreational opportunities shall be provided for all the people consistent with public safety needs and the need to protect public rights, rights of private property owners, and natural resource areas from overuse.

The proposed project consists of the installation of approximately 11 miles of fiber-optic cable along the Union Pacific Railroad right-of-way within the northern Portion of Vandenberg Air Force Base. Vandenberg Air Force Base is generally not accessible to the general public. There are two public access points in the vicinity which afford opportunities for access to the adjacent beaches: Surf County Park at the mouth of the Santa Ynez River, and Surf Beach access at the Union Pacific Railroad Station approximately 1 mile south of the mouth the Santa Ynez River. Additionally Vandenberg Air Force Base makes available organized tours for groups, and some limited public beach access north of the Santa Ynez River mouth consistent with the protection of sensitive resources such as the federally listed Western snowy plover. The proposed project itself does not affect any of these existing access opportunities.

The Commission finds that the proposed project, as conditioned, is consistent with and adequate to carry the provisions of PRC Sections 30210

4. CEQA

The proposed site lies within the County of Santa Barbara, but falls within the Commission's area of retained permit jurisdiction because it is located on lands which have not been included in the County's certified Local Coastal Program. The County's Local Coastal Program (Land Use Plan and Implementation Ordinances) was certified in 1982 and contains policies regarding the protection of environmentally sensitive habitats, recreational and visitor serving uses, public access, and the protection of scenic and visual qualities.

Section 13096 of the Commission's Code of Regulations requires the Commission approval of Coastal Development Permits to be supported by findings showing the permit, as conditioned, to be consistent with any applicable requirements of the California Environmental Quality Act (CEQA). Section 21080.5(d)(2)(A) of CEQA prohibits a proposed development from being approved if there are feasible alternatives or feasible mitigation measures available which would substantially lessen any significant adverse effect which the activity may have on the environment.

The proposed project has been conditioned in order to be found consistent with the resource protection and hazard policies of the Coastal Act. The mitigation measures incorporated into the project by the applicant and included as special conditions to the permit will minimize all adverse effects of the project, and there are no others measures available, which would substantially lessen any significant adverse effects, which the project may have on the environment.

Therefore, the Commission finds that the proposed project, as conditioned to mitigate the identified adverse effects, is the least environmentally damaging feasible alternative and can be found consistent with the requirements of the Coastal Act and with the CEQA.

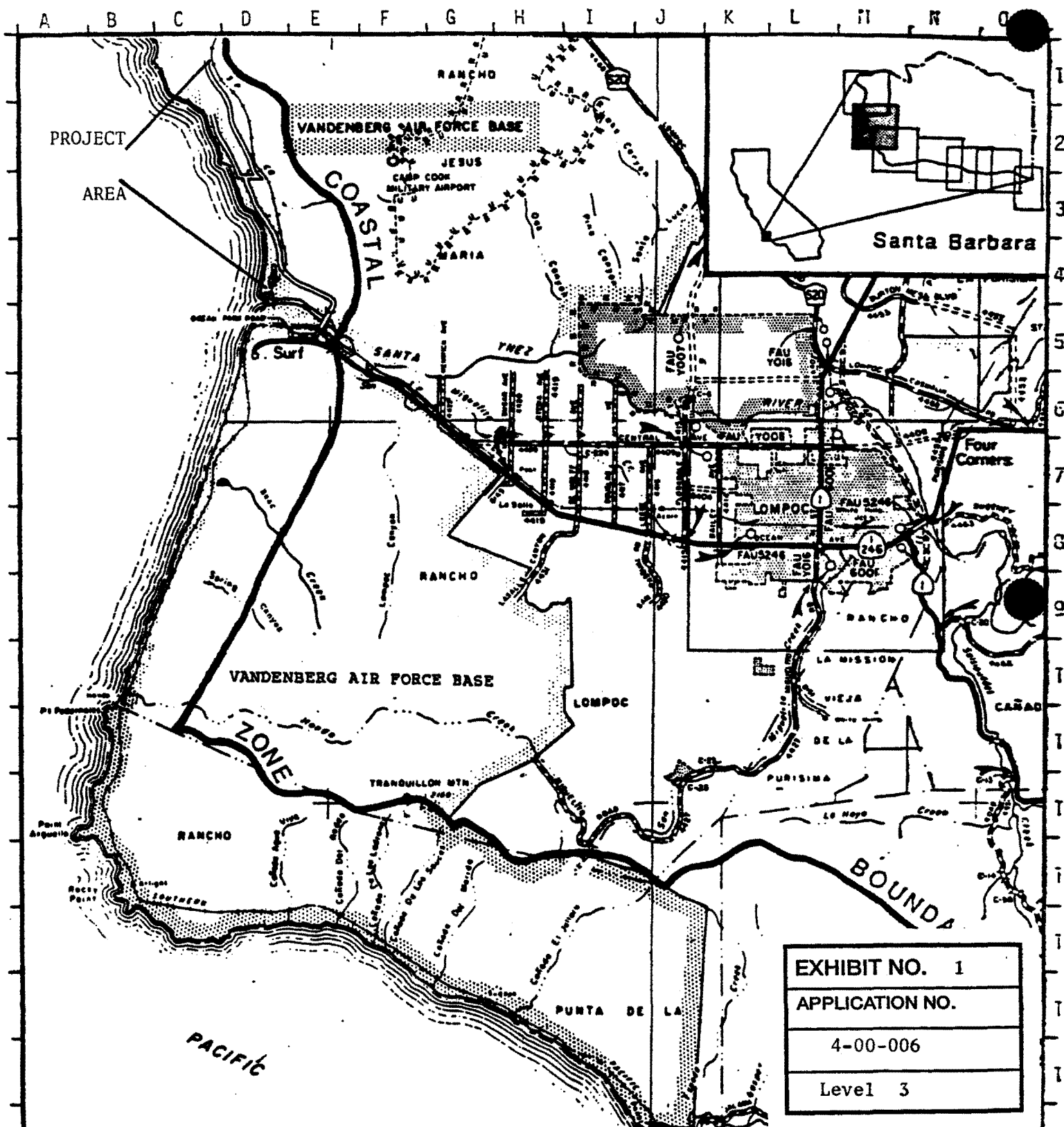
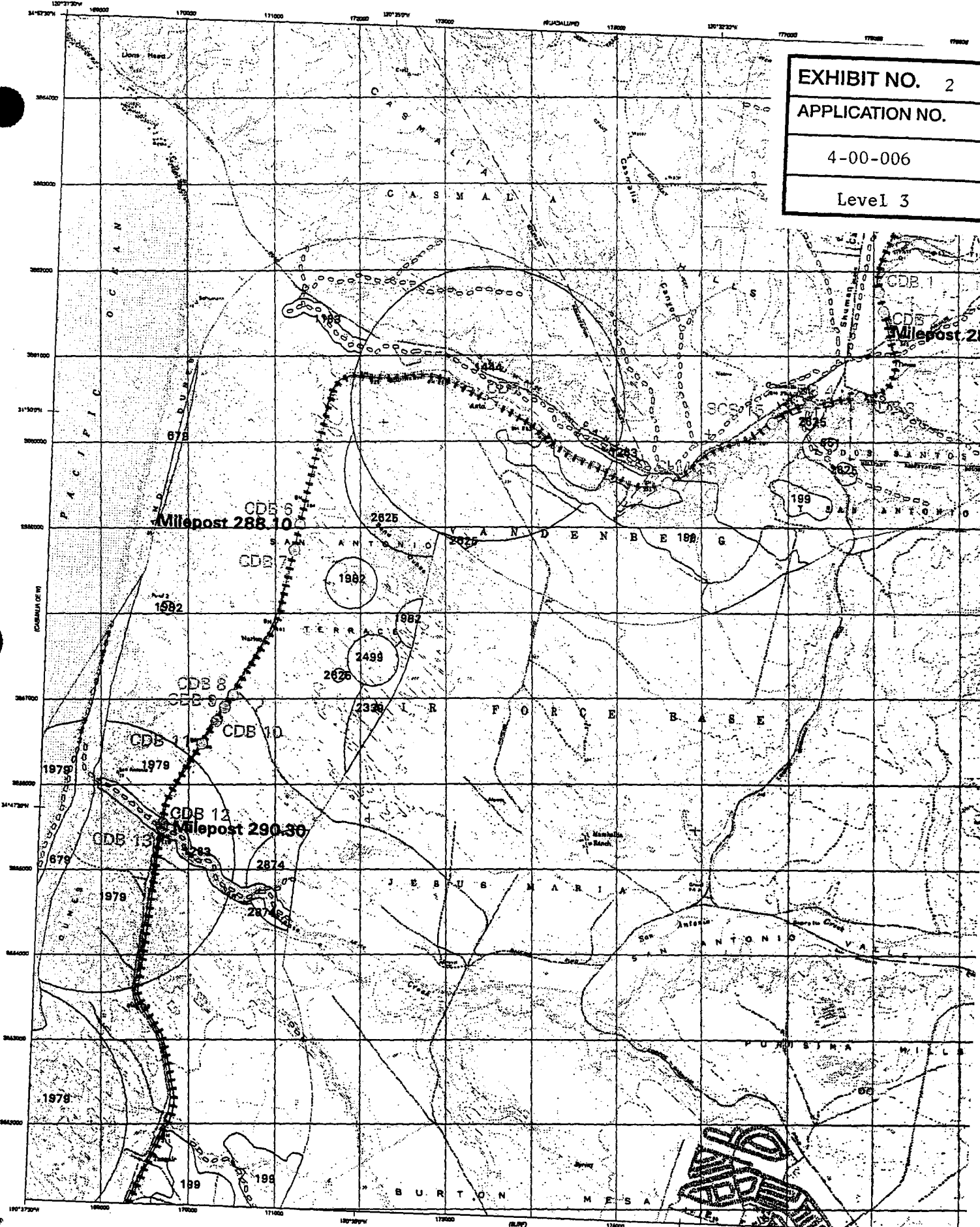
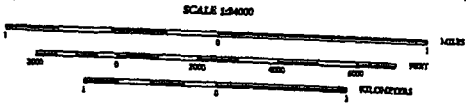


EXHIBIT NO. 2
 APPLICATION NO.
 4-00-006
 Level 3



KEY

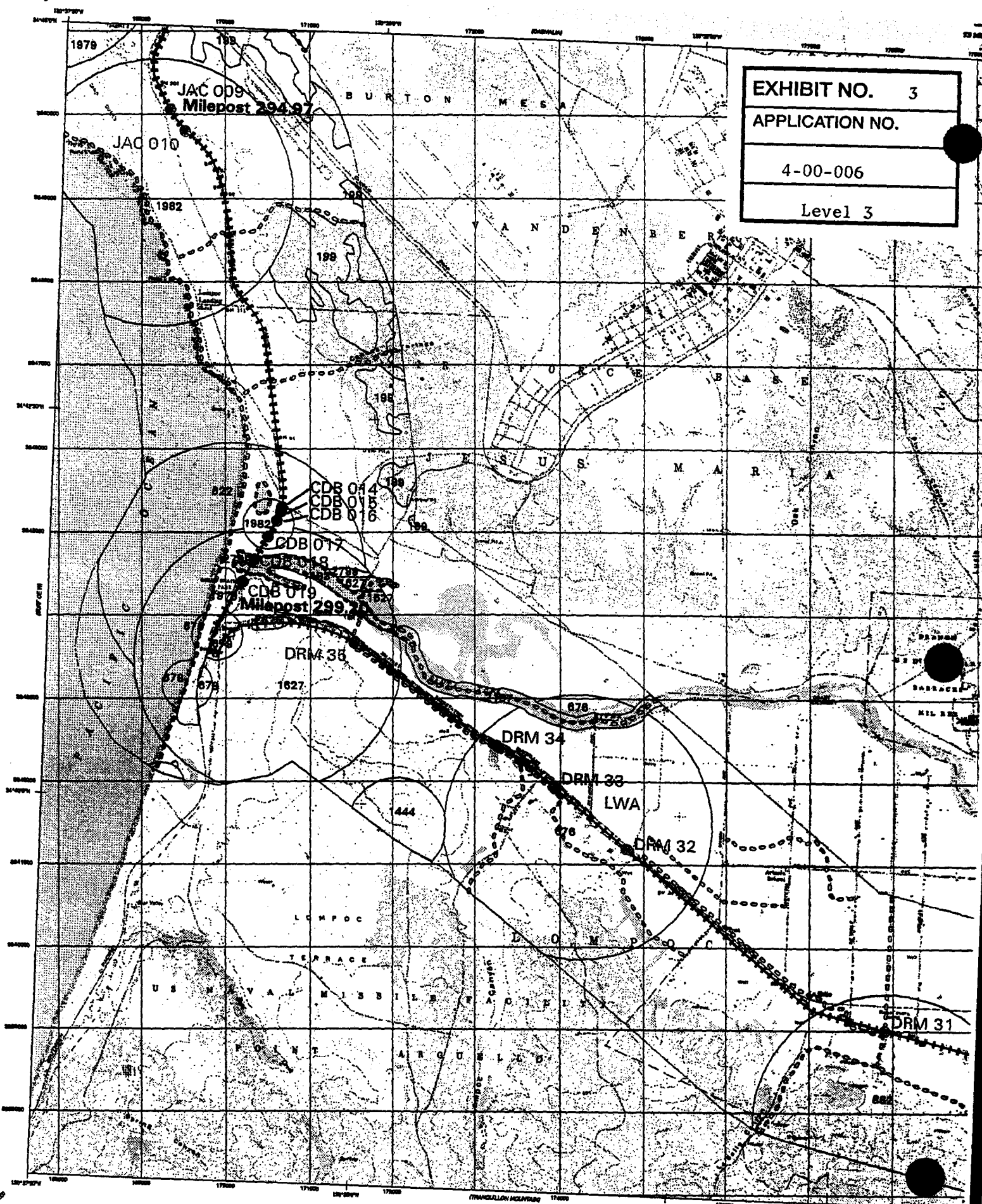
- Route
- Species Habitat
- Buffer - 1 mile from route



- LEGEND**
- 199 *Arctostaphylos rudis*
 - 651 *Chorizanthe rectiflora*
 - 678 *Cirsium rithophium*
 - 1183 *Eucyclogobius newberryi*
 - 1263 *Gasterosteus aculeatus williamsoni*
 - 1444 *Horkelia cuneata ssp sericea*
 - 1979 *Monardella crassa*
 - 1982 *Monardella frutescens*

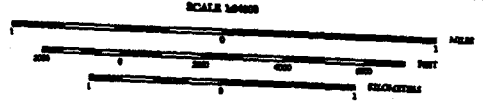
CASM

EXHIBIT NO. 3
 APPLICATION NO.
 4-00-006
 Level 3



KEY

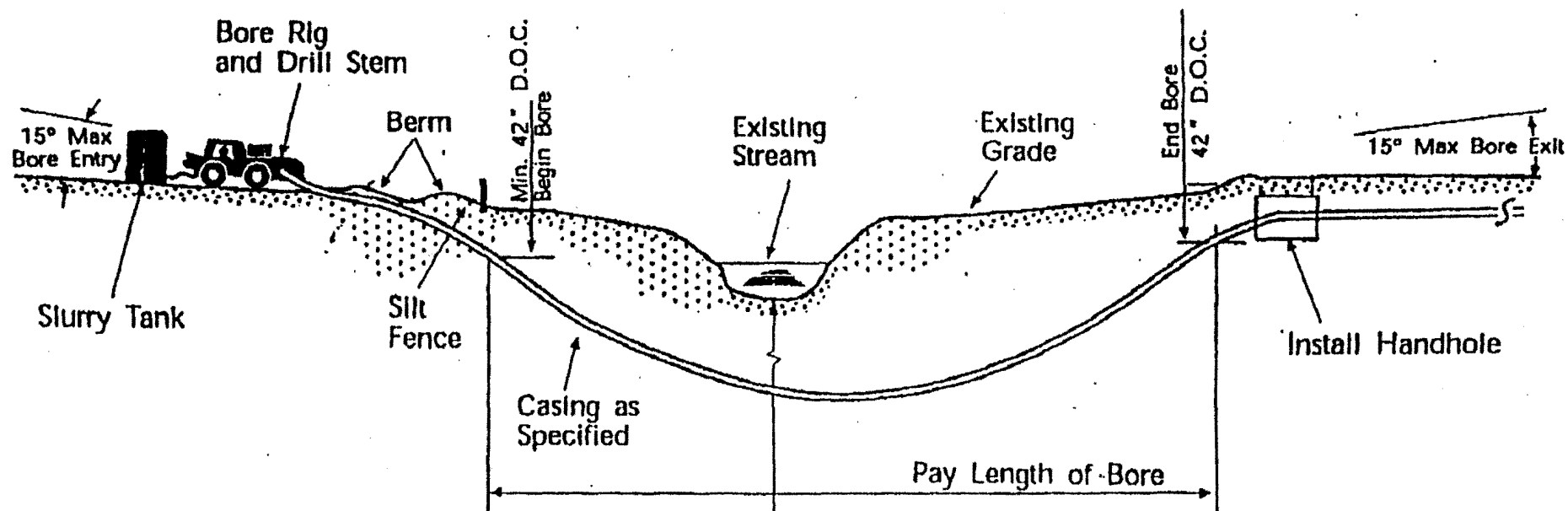
- Routes
- Species Habitat
- Buffer - 1 mile from route



LEGEND

- 198 *Arctostaphylos hudi*
- 622 *Chenopodium alexandrinum niveus* (hosting)
- 676 *Cirsium loncholepis*
- 679 *Cirsium rithophyllum*
- 882 *Delphinium parryi* ssp. *blockmanii*
- 1444 *Horkelia cuneata* ssp. *sericea*
- 1627 *Lasthenia glabrata* ssp. *couletii*

Map Design Derived from
 United States Geological Survey
 7.5 Minute Series Maps



20' Below Stream Bed of Navigable Waters When Using Bentonite Fluid
 48" Below Stream Bed or Wetland

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| EXHIBIT NO. | 4 |
| APPLICATION NO. | 4-00-006 |
| Level | 3 |

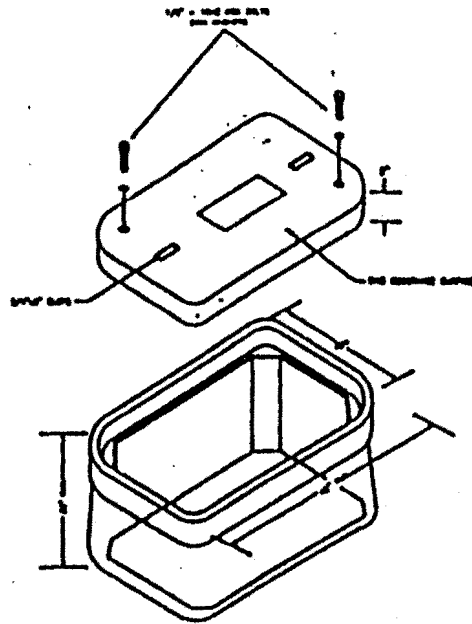
FIGURE 14

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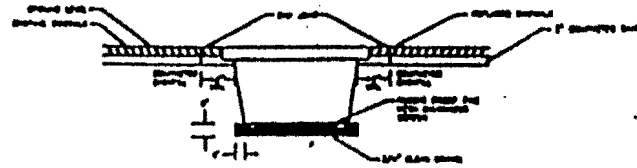
CALIFORNIA
 COASTAL COMMISSION
 SOUTH CENTRAL COAST DISTRICT

HANDHOLE DETAIL

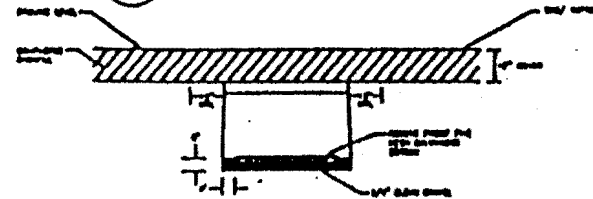


A STANDARD ASSIST/SPLICE HANDHOLE
 0007 30" x 48" x 30"
 NOT TO SCALE

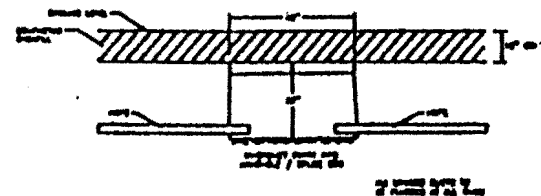
1. 1" OF BRICK SHALL BE PLACED UNDER ENCLOSURE DURING INSTALLATION TO ASSIST IN DRAINAGE.
2. ALL FILL AROUND ENCLOSURE SHALL BE COMPACTED IN 4" LIFTS.
3. CONSTRUCTION AREA SHALL BE RESTORED TO ORIGINAL BETTER CONDITION.
4. HANDHOLE RESTORATION SHALL BE PERMITTED TO ALLOW NO DRAINAGE FROM 11" AND NO LESS THAN 8" BELOW FINISH GRADE.



1 INSTALLATION IN SIDEWALK AREA
 0007 NOT TO SCALE



2 INSTALLATION IN UNPAVED AREA
 0007 NOT TO SCALE



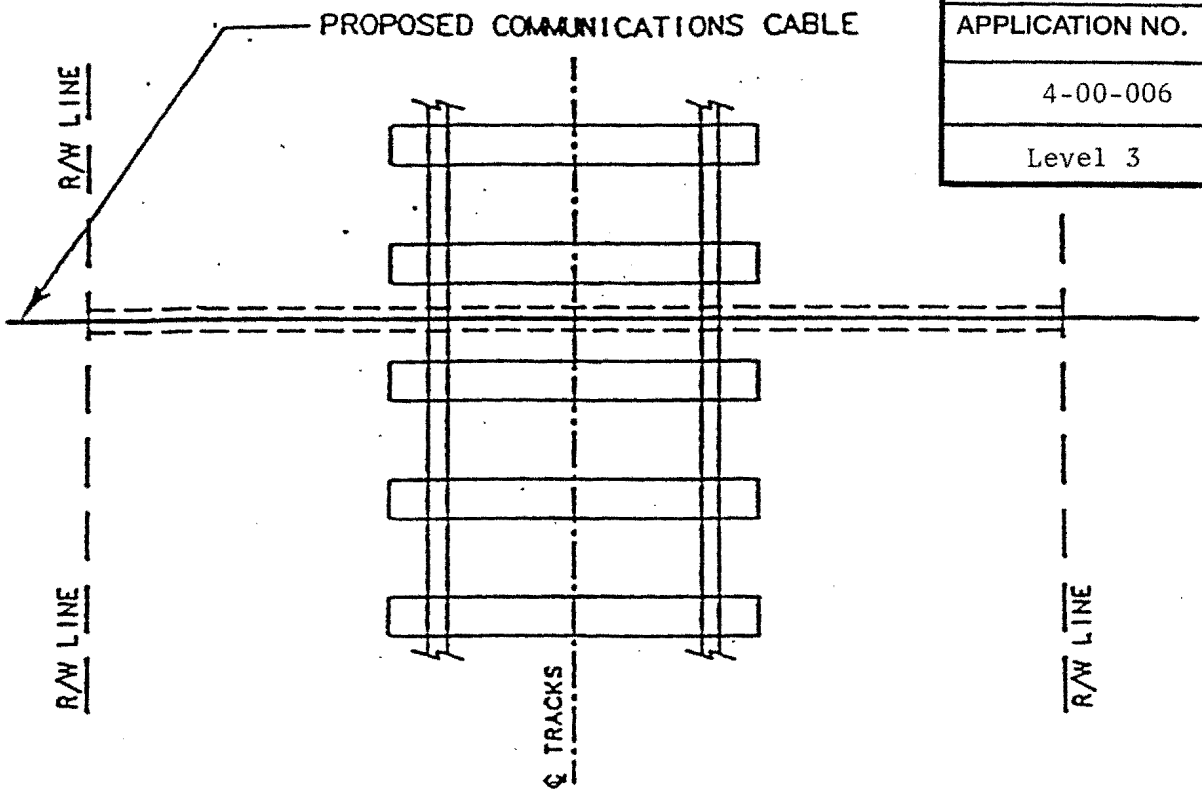
3 STANDARD ENCLOSURE
 0007 NOT TO SCALE

ANGLE OF ENTRY NOT TO EXCEED 1.5' RISE IN 6"

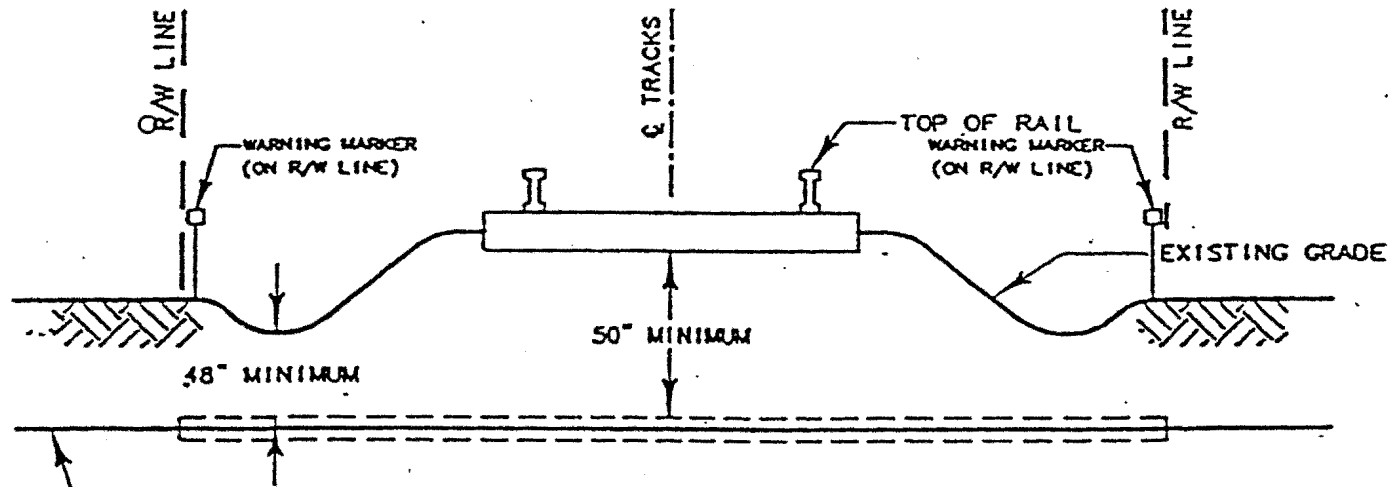
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| EXHIBIT NO. 5 |
| APPLICATION NO. |
| 4-00-006 |
| Level 3 |

FIGURE 15

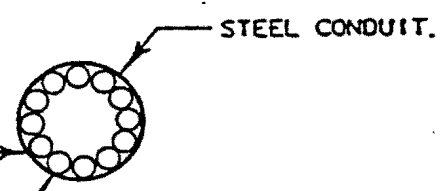
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| EXHIBIT NO. 6 |
| APPLICATION NO. |
| 4-00-006 |
| Level 3 |



PLAN



PROFILE



12 x 1" O.D.A. COMMUNICATIONS CABLE

1-1/4" HDPE

HDPE - HIGH DENSITY POLYETHYLENE

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FIGURE 16

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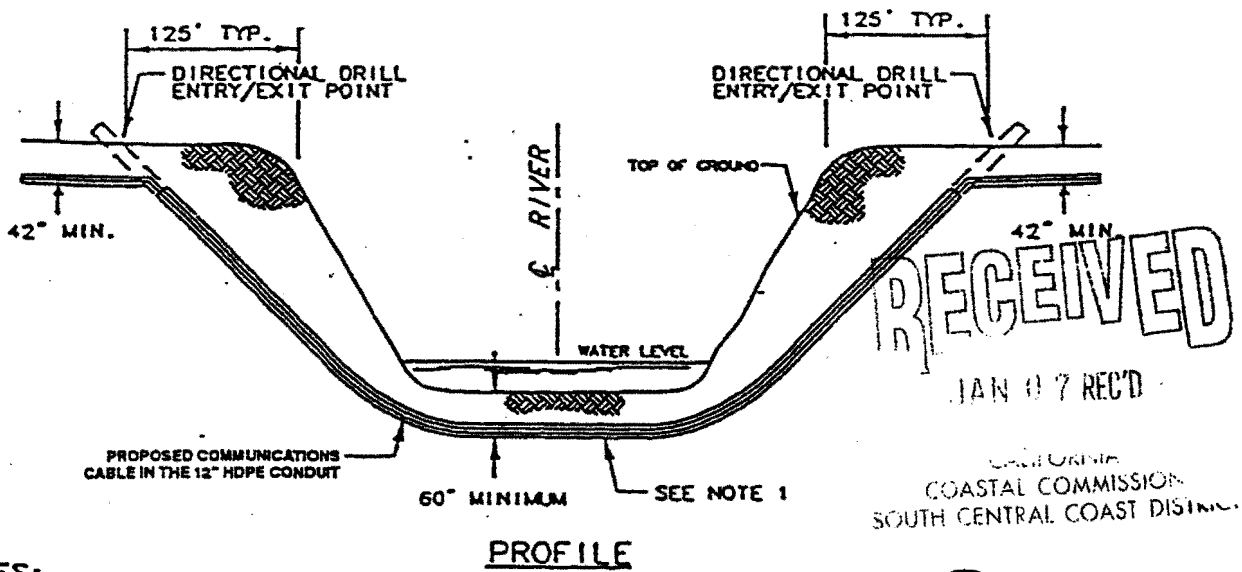
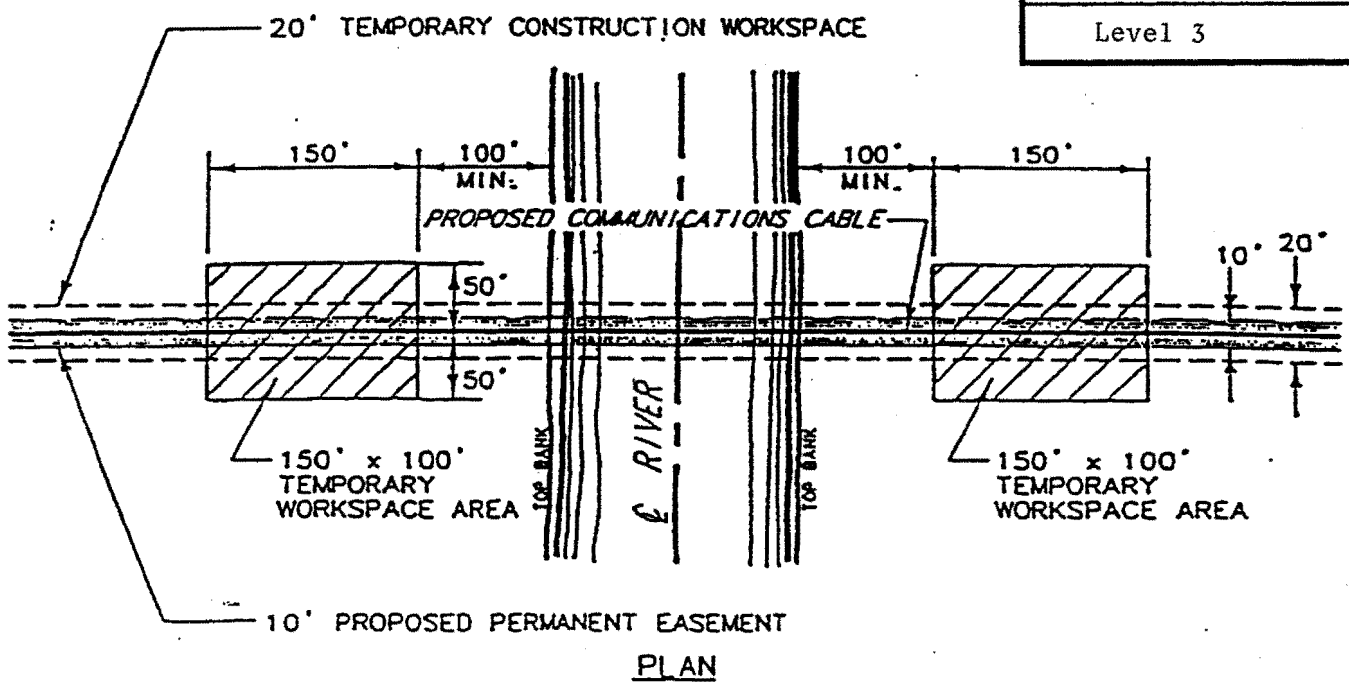


CALIFORNIA COASTAL COMMISSION SOUTH CENTRAL COAST DISTRICT

| | |
|------------------------------------|-------------------------------|
| Level (3) COMMUNICATIONS | PREPARED BY Chambers Group |
| TYPICAL RAILROAD BORE | |

TYPICAL MAJOR RIVER CROSSING

| | |
|-----------------|----------|
| EXHIBIT NO. | 7 |
| APPLICATION NO. | 4-00-006 |
| | Level 3 |



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 SOUTH CENTRAL COAST DISTRICT

NOTES:

1. IF REQUIRED, PROPOSED STEEL CONDUIT IN THE DIRECTIONAL DRILL ALONG WITH THE PRIMARY HDPE EMPLOYING THE COMMUNICATIONS CABLE AND A SPARE HDPE.
2. CONTRACTOR TO ADHERE TO COMPANY HORIZONTAL DRILLING SPECIFICATIONS.
3. TYPICAL DIRECTIONAL DRILL FOR RIVERS GREATER THAN 100 FEET, NAVIGABLE RIVERS, SCENIC RIVERS, OR OTHER DESIGNATED STREAMS.
4. PROPOSED STEEL CONDUIT WITH (12) 1-1/4" HIGH DENSITY POLYETHYLENE AND COMMUNICATIONS CABLE INSIDE.

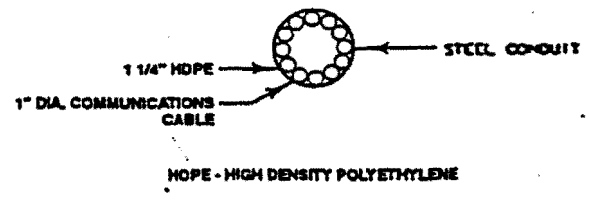
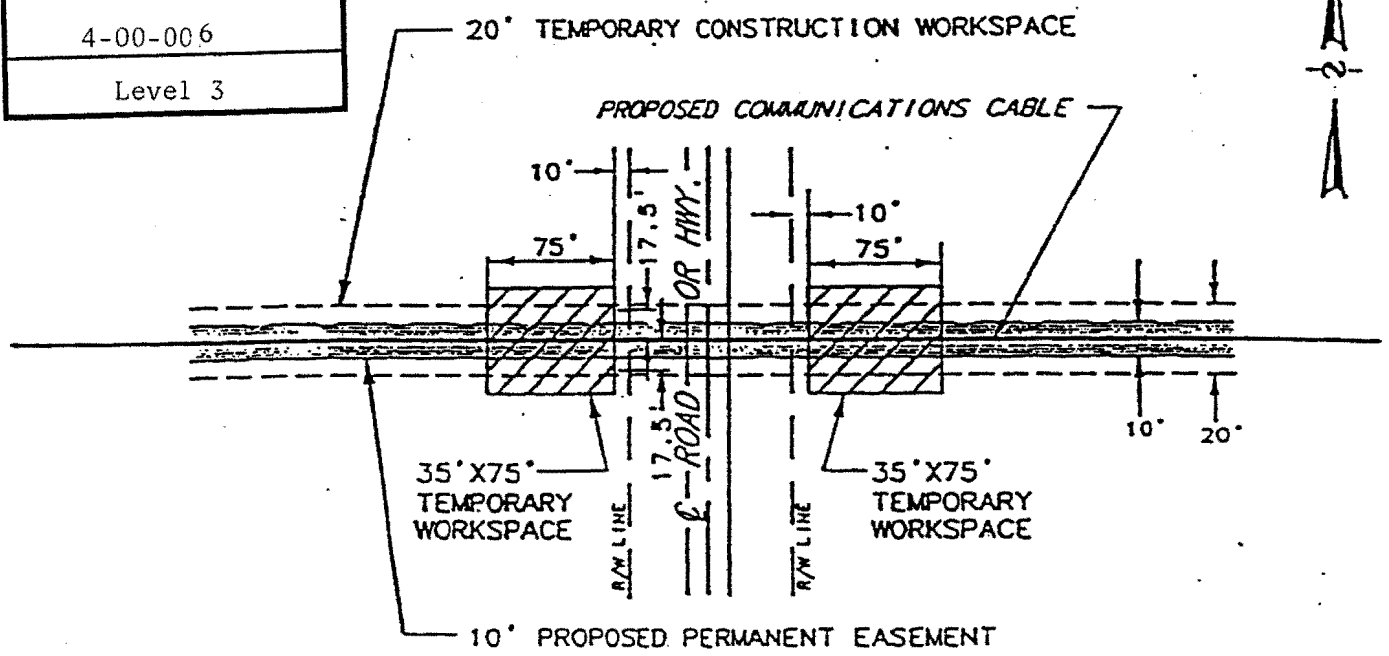


FIGURE 17

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| EXHIBIT NO. 8 |
| APPLICATION NO. |
| 4-00-006 |
| Level 3 |

TYPICAL ROAD CROSSING

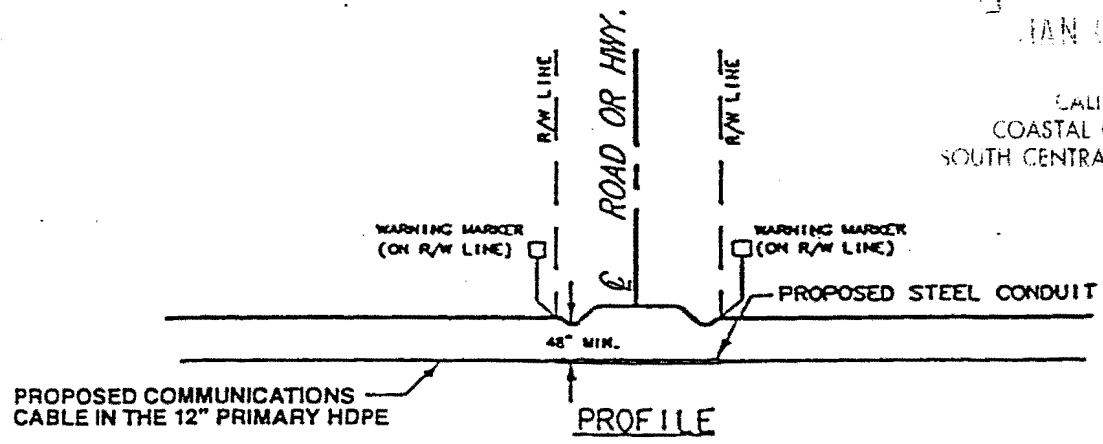


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CALIFORNIA COASTAL COMMISSION SOUTH CENTRAL COAST DISTRICT



PROFILE

NOTES:

- 1. PROPOSED STEEL CONDUIT WITH (12) 1-1/4" HIGH DENSITY POLYETHYLENE AND COMMUNICATIONS CABLE INSIDE.

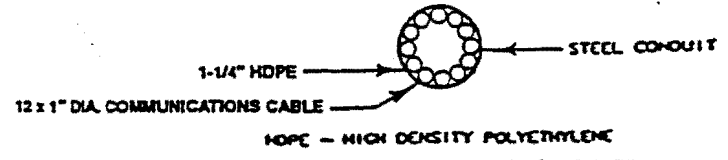
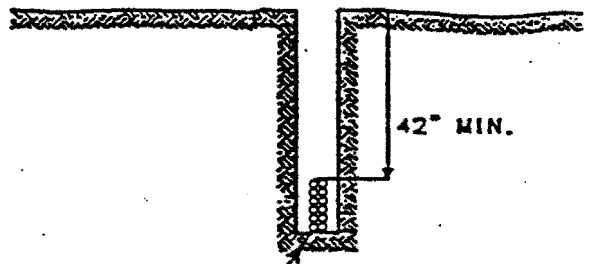


FIGURE 18

TYPICAL WETLANDS INSTALLATION

| |
|-----------------|
| EXHIBIT NO. 9 |
| APPLICATION NO. |
| 4-00-006 |
| Level 3 |



12 - 1 1/4" PRIMARY INNERDUCT IN WHICH THE 1" COMMUNICATIONS CABLE WILL BE EMPLOYED

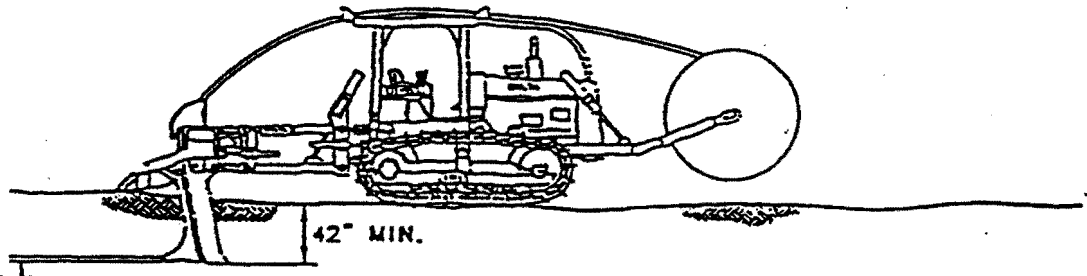
DETAIL "A"

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CALIFORNIA COASTAL COMMISSION SOUTH CENTRAL COAST DISTRICT

DIRECTION OF FLOW

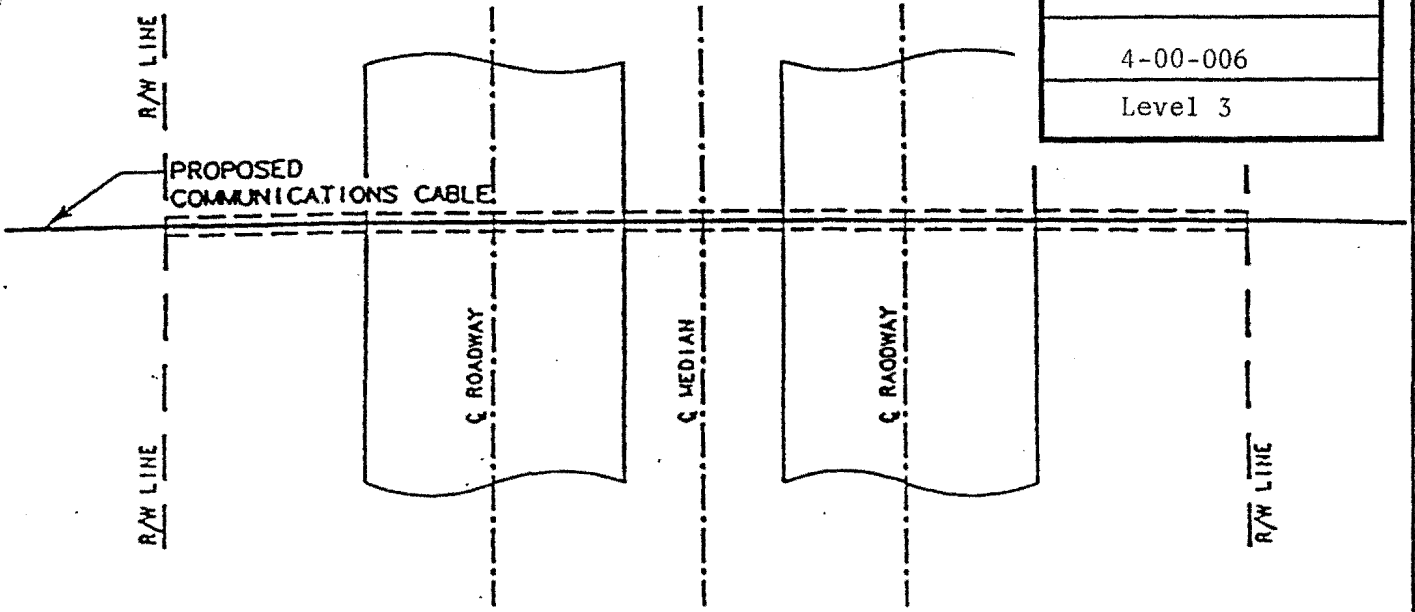


SEE DETAIL "A"

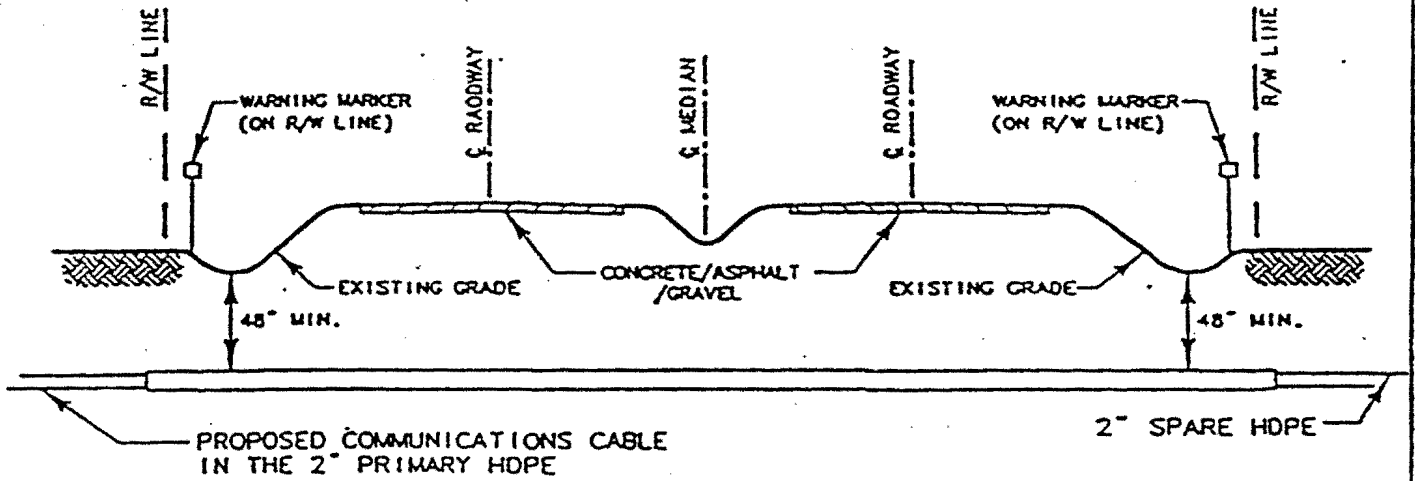
TRACK MOUNT INNERDUCT PLOW

FIGURE 19

| |
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| EXHIBIT NO. 10 |
| APPLICATION NO. |
| 4-00-006 |
| Level 3 |

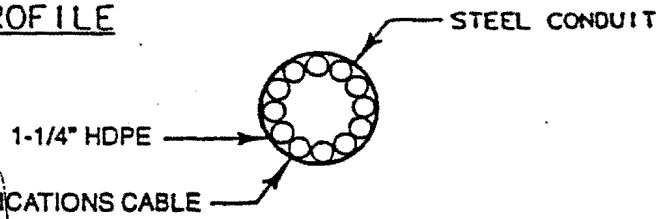


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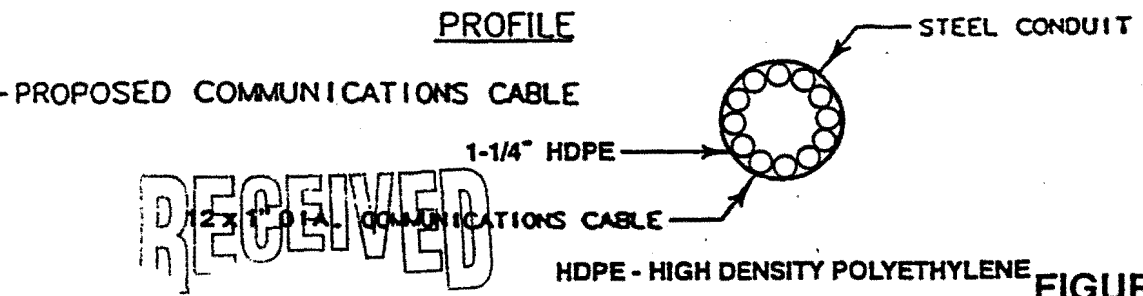
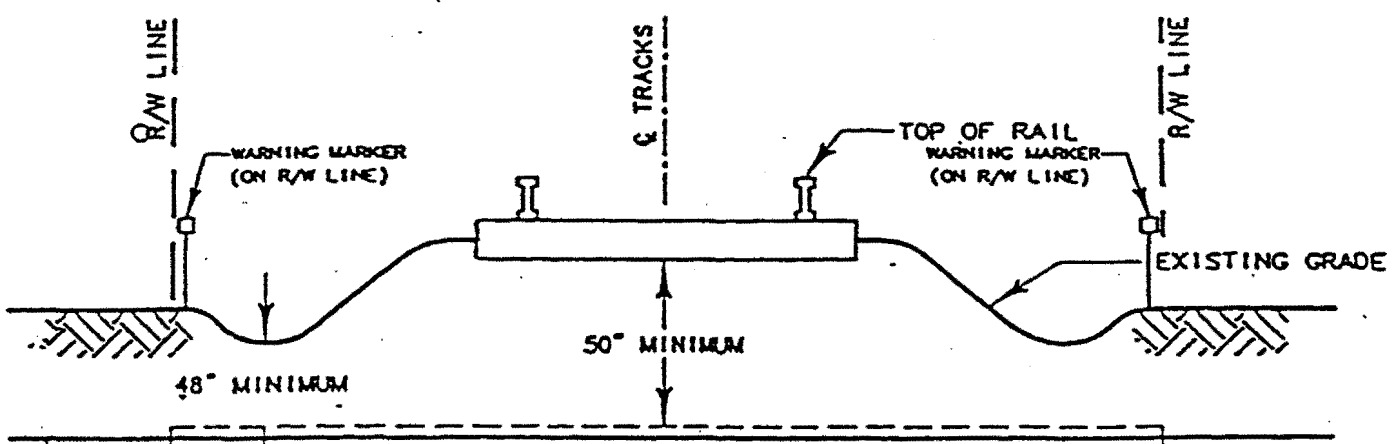
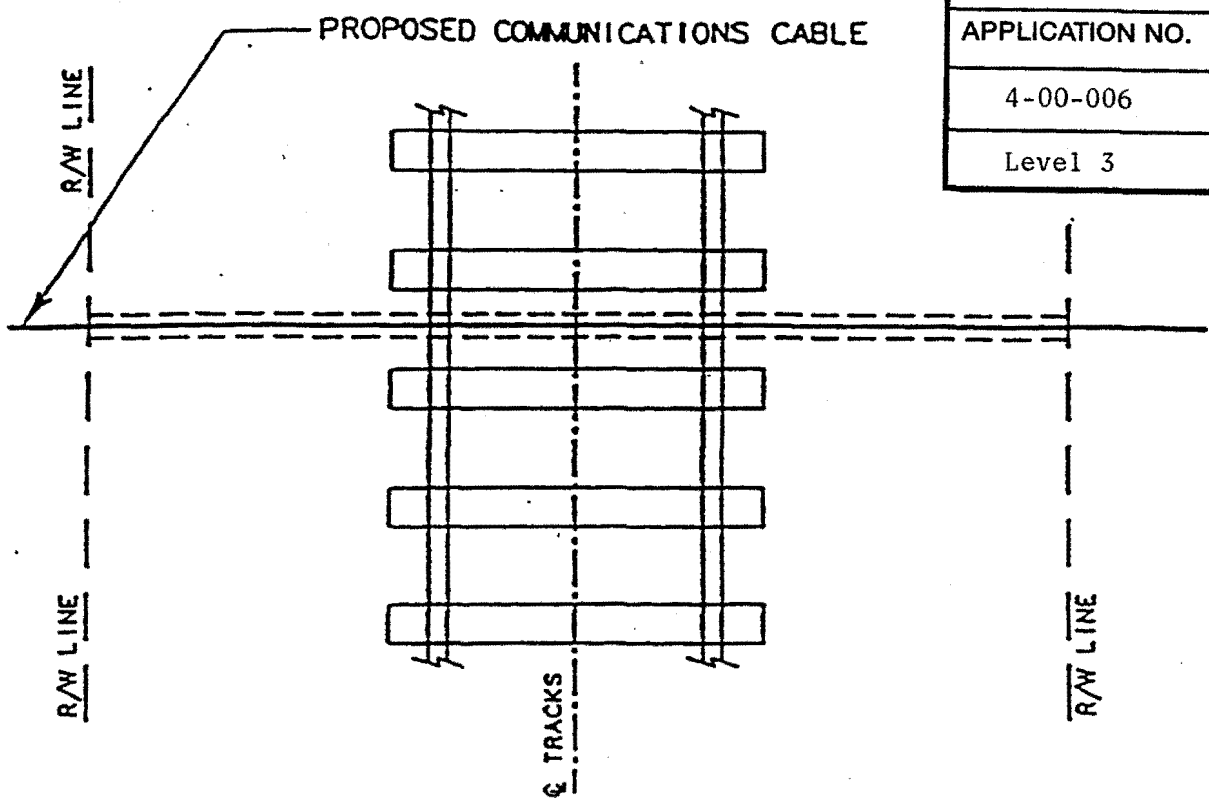


HDPE - HIGH DENSITY POLYETHYLENE

FIGURE 20

CALIFORNIA
 COASTAL COMMISSION
 SOUTH CENTRAL COAST DISTRICT

| |
|-----------------|
| EXHIBIT NO. 11 |
| APPLICATION NO. |
| 4-00-006 |
| Level 3 |

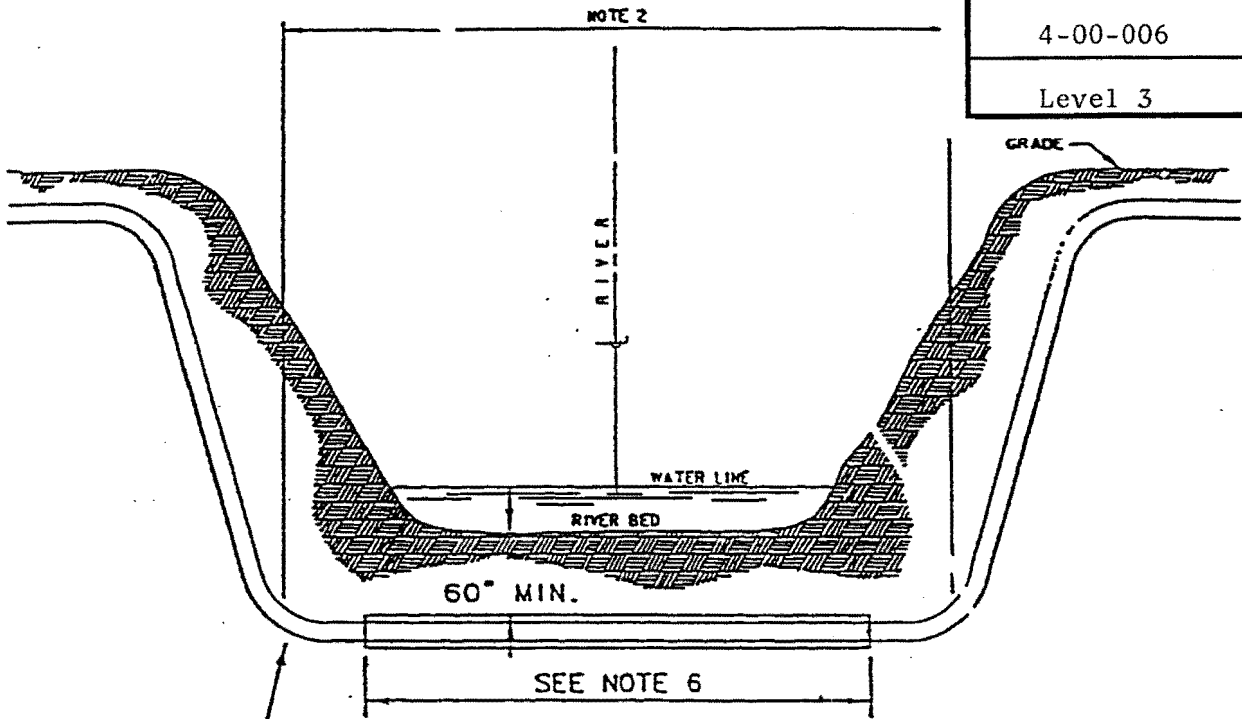


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FIGURE 21

TYPICAL OPEN CUT RIVER/STREAM CROSSING

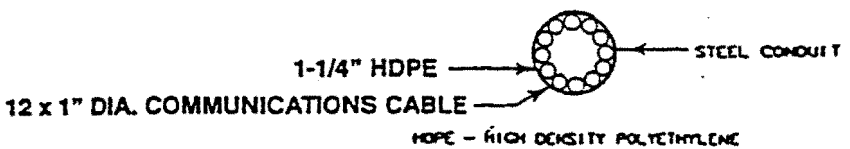
| | |
|-----------------|----------|
| EXHIBIT NO. | 12 |
| APPLICATION NO. | |
| | 4-00-006 |
| | Level 3 |



PROPOSED COMMUNICATIONS CABLE IN THE 2" PRIMARY HDPE AND 2" SPARE HDPE (SEE DETAIL)

NOTES

1. FIBER OPTIC CABLE SHALL BE LAID LEVEL UNDER CHANNEL AS SHOWN OR AS DIRECTED BY ENGINEER.
2. EXCAVATION SHALL BE DONE IN SUCH A MANNER AS TO MINIMIZE THE CREATION OF ADDITIONAL SUSPENDED SOLIDS. EXCAVATED MATERIAL FROM THE WATERWAYS (INCLUDING ADJACENT WETLAND AREAS) WILL BE STORED IN AN UPLAND SITE. IN A CONTAINED DISPOSAL AREA MATERIAL SHALL BE PROTECTED FROM WEATHER AND ANY EROSION BACK INTO WATERWAY SHALL BE PREVENTED.
3. EXCESS MATERIAL WILL BE DISPOSED OF IN AN UPLAND SITE.
4. INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE PERMITS.
5. BANKS, AS WELL AS BOTTOM CONTOURS, SHALL BE RESTORED TO ORIGINAL CONDITION AS NEAR AS PRACTICABLE.
6. IF REQUIRED, STEEL CASING PIPE OR SPLIT STEEL PIPE SHALL BE INSTALLED AND SHALL EXTEND BEYOND EDGES OF WATER.



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FIGURE 22

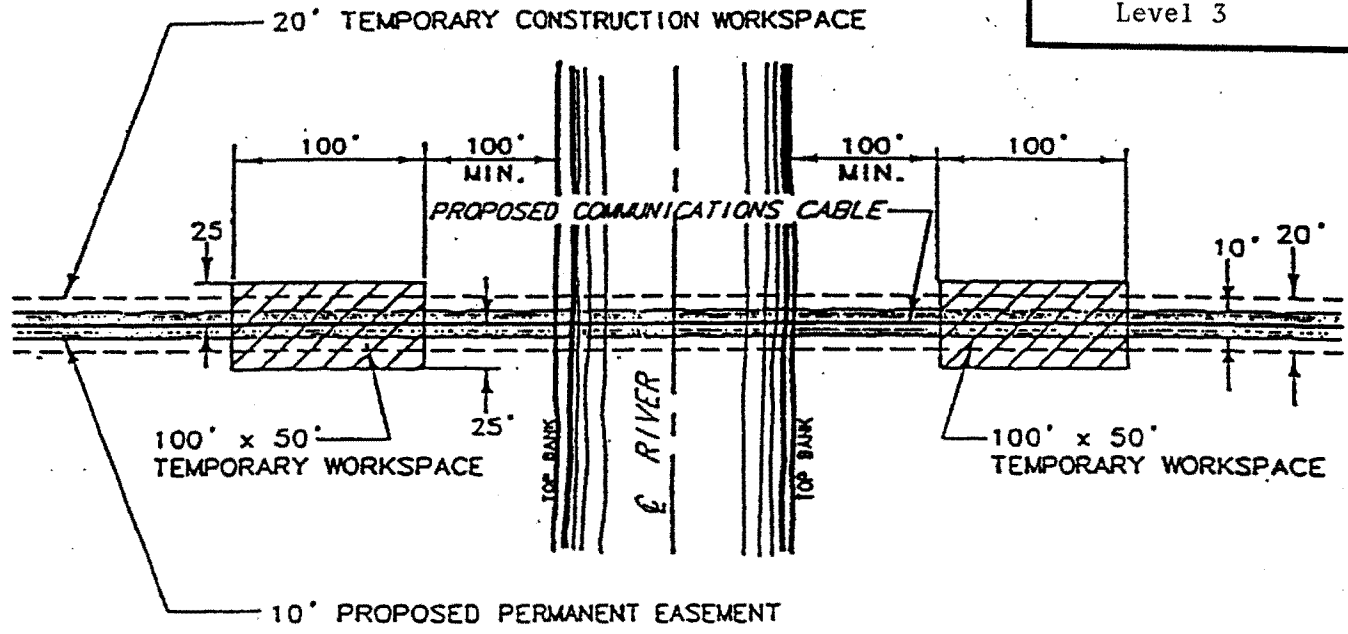


CALIFORNIA
COASTAL COMMISSION
SOUTH CENTRAL COAST DISTRICT

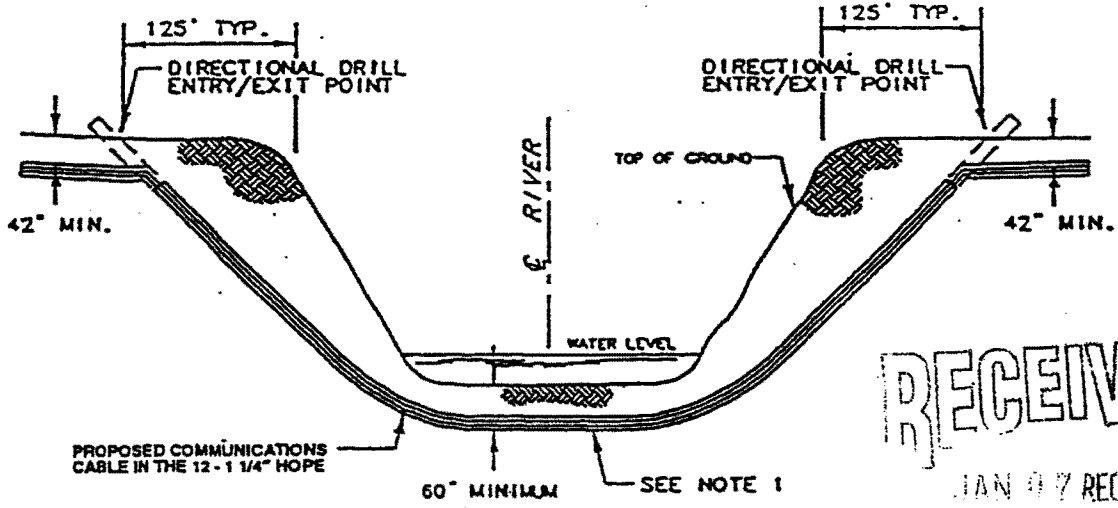
| | |
|--|--------------------------------------|
| Level (3) COMMUNICATIONS | PREPARED BY Chambers Group |
| TYPICAL OPEN CUT RIVER/ STREAM CROSSING | |

TYPICAL MINOR RIVER CROSS

| |
|-----------------|
| EXHIBIT NO. 13 |
| APPLICATION NO. |
| 4-00-006 |
| Level 3 |



PLAN



PROFILE

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CALIFORNIA
 COASTAL COMMISSION
 SOUTH CENTRAL COAST DISTRICT

NOTES:

1. THE DIRECTIONAL DRILL WILL CONTAIN 12 - 1 1/4" HDPE CONDUIT THAT WILL EMPLOY THE COMMUNICATIONS CABLE.
2. CONTRACTOR TO ADHERE TO COMPANY HORIZONTAL DRILLING SPECIFICATIONS.
3. TYPICAL DIRECTIONAL DRILL FOR RIVERS GREATER THAN 100 FEET, NAVIGABLE RIVERS, SCENIC RIVERS, OR OTHER DESIGNATED STREAMS.

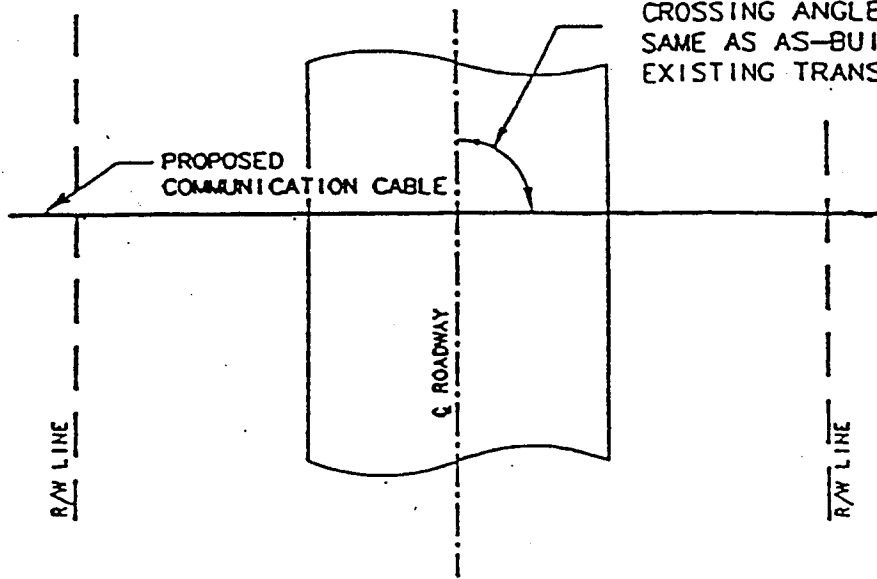


HDPE - HIGH DENSITY POLYETHYLENE

FIGURE 23

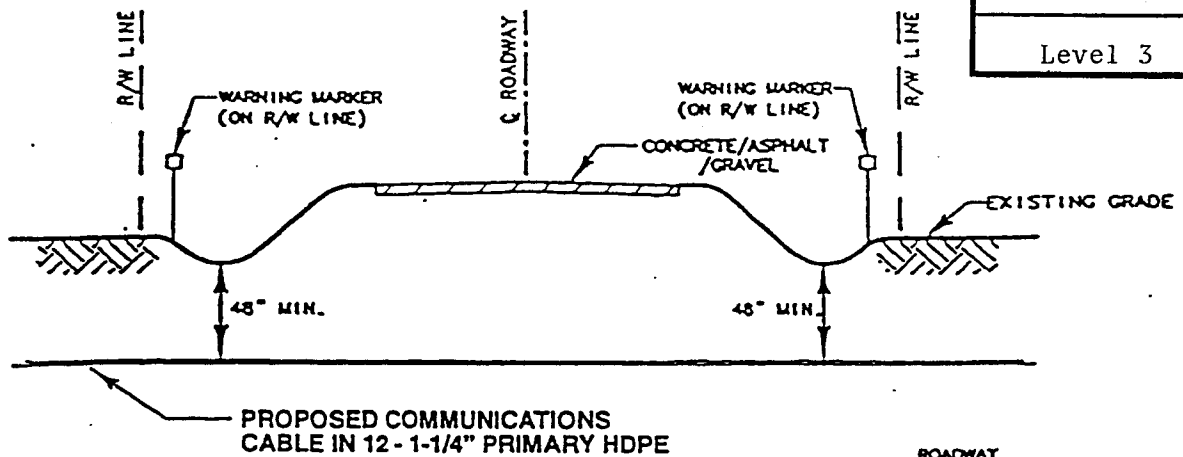
TYPICAL OPEN-CUT ROAD CROSSING

CROSSING ANGLE WILL BE SAME AS AS-BUILT ANGLE OF EXISTING TRANSCO PIPELINES.

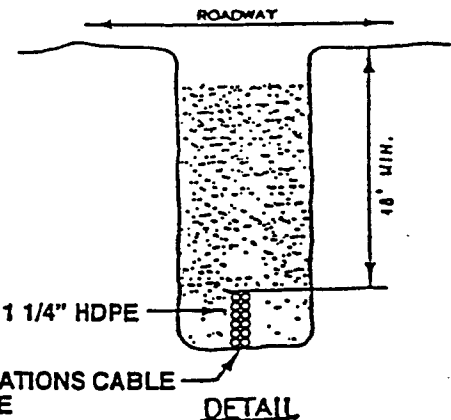


PLAN

| | |
|-----------------|----------|
| EXHIBIT NO. | 14 |
| APPLICATION NO. | |
| | 4-30-006 |
| | Level 3 |



PROFILE



DETAIL

HOPE - HIGH DENSITY POLYETHYLENE

NOTE:

1. INSTALL HOPE'S WITH A 48" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON DRAWINGS AND FOR PERMIT.
2. IF OPEN CUT, THE COMPACTION & PATCHING SPECIFICATIONS FROM THE PERMITTING AUTHORITY SHALL BE FOLLOWED.

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1" DIA. COMMUNICATIONS CABLE IN 1 1/4" HDPE

FIGURE 24

| |
|-----------------|
| EXHIBIT NO. 15 |
| APPLICATION NO. |
| 4-00-006 |
| Level 3 |

**Appendix A-1
Potential Locations for Threatened
and Endangered Plant and Animal Species (Continued)**

| San Luis Obispo to Gaviota | | | | |
|----------------------------|---------------|----------------------|--|--------------------------------|
| Site Number | Milepost | Site Name | Sensitive Species | Environmental Protection Codes |
| Pismo Clarkia | 258.07-258.60 | Pismo Clarkia | PC | P.1, P.2 |
| CBD 022 | 258.60 | Willow Tree | WILLOW | GM.3, P.1, P.2, P.3 |
| Pismo Clarkia | 258.60-259.15 | Pismo Clarkia | PC | P.1, P.2 |
| CDB 023 | 259.15 | Parallel Wetland | CRLF, CTS | W.1, W.2, AR.1 |
| CDB 024 | 259.20 | Parallel Wetland | CRLF, CTS | W.1, W.2, AR.1 |
| PDV 002 | 259.40 | Villa Creek | CRLF, CTS, SWPT, SST, TG | W.1, W.2, AR.1, F.1 |
| PDV 003 | 259.80 | Parallel drainage | CRLF, CTS, LGT | W.1, W.2, AR.1 |
| Pismo Clarkia | 259.80-260.20 | Pismo Clarkia | PC | P.1, P.2 |
| PDV 004 | 260.20 | Unnamed drainage | CRLF, CTS, LGT | W.1, W.2, AR.1 |
| Pismo Clarkia | 260.20-263.00 | Pismo Clarkia | PC | P.1, P.2 |
| PDV 005 | 263.00 | Arroyo Grande River | SWPT, SST, TG, LGT, MS, GW | W.1, W.2, AR.1, F.1 |
| Pismo Clarkia | 263.00-268.60 | Pismo Clarkia | PC | P.1, P.2 |
| CLM 021 | 268.60 | Estradella Creek | CRLF, CTS, WST | W.1, W.2, AR.1 |
| CLM 023 | 271.80 | Santa Maria River | CRLF, CTS, SWPT, SST, TG, WST, WSP, CLT, LGT, MS, GW | W.1, W.2, AR.1, F.1, B.1 |
| CLM 024 | 272.00 | Unnamed drainage | CRLF, CTS, LGT | W.1, W.2, AR.1 |
| CLM 025 | 272.70 | Unnamed drainage | CRLF, CTS, LGT | W.1, W.2, AR.1 |
| SCS 001 | 274.10 | Unnamed drainage | CRLF, CTS, LGT | W.1, W.2, AR.1 |
| SCS 002 | 274.50 | Parallel Wetland | CRLF, CTS, LGT | W.1, W.2, AR.1 |
| SCS 003 | 274.60 | Parallel Wetland | CRLF, CTS, LGT | W.1, W.2, AR.1 |
| SCS 004 | 274.70 | Solomon Canyon Creek | CRLF, CTS, WST, LGT | W.1, W.2, AR.1 |
| SCS 006 | 276.05 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| SCS 007 | 276.50 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| SCS 008 | 276.60 | Unnamed drainage | CTS, LGT | W.1, W.2, AR.1 |
| SCS 009 | 277.00 | Unnamed drainage | CTS, LGT | W.1, W.2, AR.1 |
| SCS 010 | 277.20 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| CDB 028 | 279.60 | Oak Trees | OAKS | G.3, P.1, P.2, P.3 |
| CDB 030 | 280.00 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| CDB 031 | 280.30 | Oak Trees | OAKS | G.3, P.1, P.2, P.3 |
| CDB 032 | 280.35 | Unnamed drainage | CTS, WST | W.1, W.2, AR.1 |
| Seaside bird's beak | 280.45-282.35 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 001 | 282.35 | Unnamed drainage | CTS, WST, LGT | W.1, W.2, AR.1 |
| Seaside bird's beak | 282.35-282.50 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 002 | 282.50 | Unnamed drainage | CTS, WST, LGT | W.1, W.2, AR.1 |
| Seaside bird's beak | 282.50-283.30 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 003 | 283.30 | Unnamed drainage | CTS, WST, UTS, LGT | W.1, W.2, AR.1, F.1 |
| Seaside bird's beak | 283.30-283.67 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 004 | 283.67 | Unnamed drainage | CTS, LGT | W.1, W.2, AR.1 |
| Seaside bird's beak | 283.67-283.90 | Seaside bird's beak | SBB, LGT | P.1, P.2 |
| SCS 015 | 283.90 | Unnamed drainage | CTS, LGT | W.1, W.2, AR.1 |
| Seaside bird's beak | 283.90-288.10 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 006 | 288.10 | Parallel wetland | CRLF, WST, CTS, TB, LGT, MS, GW | W.1, W.2, AR.1, B.1 |

**Appendix A-1
Potential Locations for Threatened
and Endangered Plant and Animal Species (Continued)**

| San Luis Obispo to Gaviota | | | | |
|-------------------------------------|---------------|-------------------------------------|----------------------------------|--------------------------------|
| Site Number | Milepost | Site Name | Sensitive Species | Environmental Protection Codes |
| Seaside bird's beak | 288.10-288.30 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 007 | 288.30 | Parallel wetland | CRLF, WST, CTS, TB, LGT, MS, GW | W.1, W.2, AR.1, B.1 |
| CDB 008 | 289.45 | Parallel wetland | CRLF, WST, CTS, TB, LGT, MS, GW | W.1, W.2, AR.1, B.1 |
| CDB 009 | 289.55 | Parallel wetland | CRLF, WST, CTS, TB, LGT, MS, GW | W.1, W.2, AR.1, B.1 |
| CDB 010 | 289.70 | Parallel wetland | CRLF, WST, CTS, TB, LGT, MS, GW | W.1, W.2, AR.1, B.1 |
| CDB 011 | 289.95 | Parallel wetland | CRLF, WST, CTS, LGT, MS, GW | W.1, W.2, AR.1 |
| CDB 012 | 290.30 | Parallel wetland | WST, TB, LGT, MS, GW | W.1, W.2, AR.1, B.1 |
| CDB 013 | 291.35 | San Antonio River | SWWT, SWPT, TG, UTS, LGT, MS, GW | W.1, W.2, AR.1, F.1, B.1 |
| Seaside bird's beak and Beach layia | 295.00-297.80 | Beach layia and Seaside bird's beak | BL, SBB | P.1, P.2 |
| CDB 014 | 297.84 | Parallel wetland | CTS, LGT | W.1, W.2, AR.1 |
| Seaside bird's beak | 297.84-297.91 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 015 | 297.91 | Parallel wetland | CTS, LGT | W.1, W.2, AR.1 |
| Seaside bird's beak | 297.91-297.99 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 016 | 297.99 | Parallel wetland | CTS, LGT | W.1, W.2, AR.1 |
| Seaside bird's beak | 297.99-298.00 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 017 | 298.00 | Parallel wetland | CTS, LGT | W.1, W.2, AR.1 |
| Seaside bird's beak | 298.00-298.70 | Seaside bird's beak | SBB | P.1, P.2 |
| CDB 018 | 298.70 | Santa Ynez River | SWWF, WSP, TG, CLT, SST, LGT | W.1, W.2, AR.1, F.1, B.1 |
| CDB 019 | 299.20 | Parallel Wetland | CTS, LGT | W.1, W.2, AR.1 |
| DRM 035 | 1.30 | Unnamed drainage | SWWF, CTS, CRLF, LGT | W.1, W.2, AR.1, B.1 |
| DRM 034 | 2.59 | Parallel wetland | SWWF, SWPT, CTS, CRLF, LGT | W.1, W.2, AR.1, B.1 |
| DRM 033 | 3.14 | Unnamed drainage | SWWF, CTS, CRLF, LGT | W.1, W.2, AR.1, B.1 |
| DRM 032 | 3.82 | Unnamed drainage | SWWF, CTS, CRLF, LGT | W.1, W.2, AR.1, B.1 |
| DRM 031 | 6.30 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| DRM 030 | 2.25 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| LRF 039 | 15.65 | Salispuedes Creek | CRLF, WST, CTS, SWPT, SST, LGT | W.1, W.2, AR.1, F.1 |
| LRF 031 | 13.34 | El Jaro Creek | CRLF, CTS, SWPT, LGT | W.1, W.2, AR.1 |
| LRF 028 | 12.55 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| LRF 027 | 12.50 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| LRF 023 | 12.35 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| LRF 022 | 12.25 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| LRF 018 | 11.85 | Unnamed drainage | CRLF, CTS | W.1, W.2, AR.1 |
| LRF 017 | 11.70 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| LRF 014 | 11.50 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| LRF 013 | 11.40 | El Jaro Creek | CRLF, CTS, SWPT, LGT | W.1, W.2, AR.1 |
| DRM 028 | 8.40 | El Jaro Creek | CTS, CRLF, SWPT, LGT | W.1, W.2, AR.1 |
| DRM 027 | 8.20 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| DRM 026 | 8.00 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| DRM 025 | 7.91 | Unnamed drainage | CTS | W.1, W.2, AR.1 |
| DRM 024 | 7.84 | Unnamed drainage | CTS | W.1, W.2, AR.1 |

The following is a table identifying the jurisdictional features and sensitive species locations within the project area:

| SITE NUMBER | MILEPOST | SITE NAME | SENSITIVE SPECIES | CONSTRUCTION TECHNIQUE |
|---------------------|--------------------|---------------------|--|------------------------|
| CDB 006 | 288.05 – 288.13 | Parallel Wetland | California red-legged frog (CRLF), Western spadefoot toad (WST), California tiger salamander (CTS), Tricolored blackbird (TB), La graciosa thistle (LGT), Marsh sandwort (MS), Gambel's water cress (GW) | Bore |
| Seaside bird's beak | 288.10-288.30 | Seaside bird's beak | Seaside bird's-beak (SBB) | Bore |
| CDB 007 | 288.42 – 288.48 | Parallel wetland | CRLF,WST,CTS,TB, LGT,MS,GW | Bore |
| CDB 008 | 288.29 – 289.50 | Parallel wetland | CRLF,WST,CTS,TB, LGT,MS,GW | Bore |
| CDB 009 | 289.55 – 289.63 | Parallel wetland | CRLF,WST,CTS,TB, LGT,MS,GW | Bore |
| CDB 010 | 289.63 – 289.87 | Parallel wetland | CRLF,WST,CTS,TB, LGT,MS,GW | Bore |
| CDB 011 | 289.95 | Parallel wetland | CRLF,WST,CTS,LGT,MS,GW | Bore |
| CDB 012 | 290.18 – 290.29 | Parallel wetland | WST,TB,LGT,MS,GW | Bore |
| CDB 013 | 291.35 | San Antonio River | SWWT,SWPT,TG,UTS,LGT, MS,GW | Bore |

| SITE NUMBER | MILEPOST | SITE NAME | SENSITIVE SPECIES | CONSTRUCTION TECHNIQUE |
|-------------------------------------|--------------------|-------------------------------------|--|----------------------------|
| JAC 009 | 294.98 – 295.10 | Unnamed Drainage | | All Construct ¹ |
| JAC 010 | 295.93 – 296.08 | Unnamed Drainage | | All Construct ¹ |
| Seaside bird's beak and Beach layia | 295.00-297.80 | Beach layia and Seaside bird's beak | Beach layia (BL), SBB | Bore |
| CDB 014 | 297.65 – 297.75 | Parallel wetland | CTS, LGT | Bore |
| Seaside bird's beak | 297.84-297.91 | Seaside bird's beak | SBB | Bore |
| CDB 015 | 297.86 – 297.89 | Parallel wetland | CTS,LGT | Bore |
| Seaside bird's beak | 297.91-297.99 | Seaside bird's beak | SBB | Bore |
| CDB 016 | 297.97 – 298.00 | Parallel wetland | CTS,LGT | Bore |
| Seaside bird's beak | 297.99-298.00 | Seaside bird's beak | SBB | Bore |
| CDB 017 | 298.00 – 298.03 | Parallel wetland | CTS,LGT | Bore |
| Seaside bird's beak | 298.00-298.70 | Seaside bird's beak | SBB | Bore |
| CDB 018 | 298.35 – 298.77 | Santa Ynez River | Southwestern willow flycatcher (SWWF), Western snowy plover (WSP), Tidewater goby (TG), California least tern (CLT), Southern steelhead trout (SST), LGT | Bore |
| CDB 019 | 299.20 – 299.30 | Parallel Wetland | CTS,LGT | Bore |

1. Any of the construction methods discussed below can be utilized to install the fiber-optic cable.