

GENERAL:

- A. THE CONTRACTOR SHALL COMPARE ALL THE CONTRACT DOCUMENTS WITH EACH OTHER AND REPORT IN WRITING TO THE ENGINEER, ALL INCONSISTENCIES AND OMISSIONS.
- B. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE ENGINEER, ALL INCONSISTENCIES AND OMISSIONS.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED FOR STABILITY OF STRUCTURAL MEMBERS AND SYSTEMS.
- E. THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRIER WALL PROTECTION DURING CONSTRUCTION.
- F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD.
- G. DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS, UNLESS SPECIFICALLY SHOWN OR NOTED.

FOUNDATION:

5....

- A. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT (ONE PAGE FACSIMILE TRANSMITTAL) DATED NOVEMBER 14, 2002.
- B. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATION FROM SURFACE WATER, GROUND WATER OR SEEPAGE.
- C. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEETING AND SHORING NECESSARY TO PRESERVE EXCAVATIONS AND EARTH BANKS.
- D. FOOTINGS AND BARRIER WALLS SHALL BEAR ON UNDISTURBED, IN-SITU FIRM SOILS. IF SOFT AND/OR LOOSE MATERIALS ARE ENCOUNTERED AT THE BOTTOM OF EXCAVATIONS, THEY SHALL BE OVER-EXCAVATED TO EXPOSE THE UNDER-LYING FIRM MATERIALS. ALL STRUCTURAL BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION.

CONCRETE:

- A. CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE ACI 318R-95.
- B. CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK CONCRETE AND SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS: a. BARRIER WALLS -4.000 PSI b. DRILLED SHAFTS-4.000 PSI c. LIGHT POLE FOUNDATION —
- C. CONCRETE DELIVERY TICKETS SHALL RECORD ALL FREE WATER IN THE MIX: AT BATCHING BY PLANT, FOR CONSISTENCY BY DRIVER AND ANY ADDITIONAL REQUEST BY CONTRACTOR IF PERMITTED BY THE MIX DESIGN.
- D. REINFORCING BARS, ANCHOR RODS, INSERTS AND OTHER ITEMS TO BE CAST IN THE CONCRETE SHALL BE SECURED IN POSITION PRIOR TO PLACEMENT OF CONCRETE.
- E. NON-SHRINK GROUTS SHALL BE PREMIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE AND NON-STANDING TYPES, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 4.000 PSI IN 3 DAYS AND 7.000 PSI IN 28 DAYS.
- F. CHAMFER ALL BARRIER WALL EDGES 1".

REINFORCING STEEL:

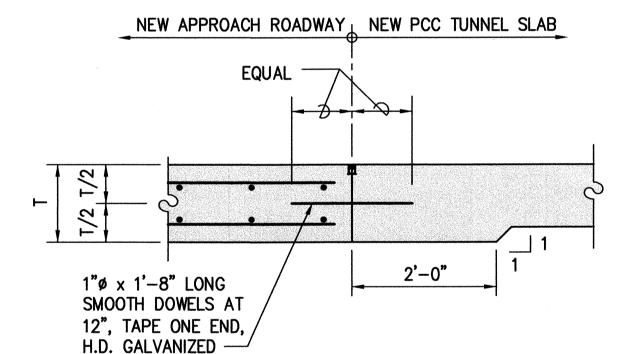
- A. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
- B. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
- a. FOOTINGS, SLABS, ETC. CAST AGAINST EARTH b. WALLS 1. FACES EXPOSED TO WEATHER —
- C. REINFORCING STEEL SHALL BE SPLICED WHERE INDICATED ON PLANS. PROVIDE LAP SPLICE LENGTH PER TYPICAL DETAILS AND SCHEDULE, UNLESS OTHERWISE NOTED.
- D. BAR BENDS AND HOOKS SHALL BE "STANDARD HOOKS" IN ACCORDANCE WITH ACI 318-95.

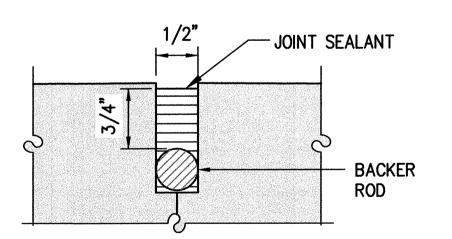
SOIL PROPERTIES:

a.	. ALLOWABLE BEARING CAPACITY	3000	psi
b.	. COEFFICIENT OF FRICTION ————————————————————————————————————	0.40	
C.	. PASSIVE PRESSURE	300 p	pcf

DESIGN CRITERIA:

a. CONCRETE BARRIERS - AASHTO TL-4

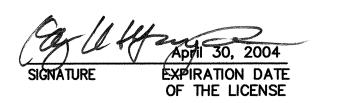








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DEPARTMENT OF TRANSPORTATION

CONC BARRIER DETAILS

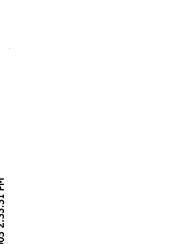
LIKELIKE HIGHWAY

Wilson Tunnel Improvements Leak and Crack Remediation

F. A. Project No. STP-063-1(22)

Scale: As Shown

SHEET No. S-1 OF 5



Date: April 24, 2003

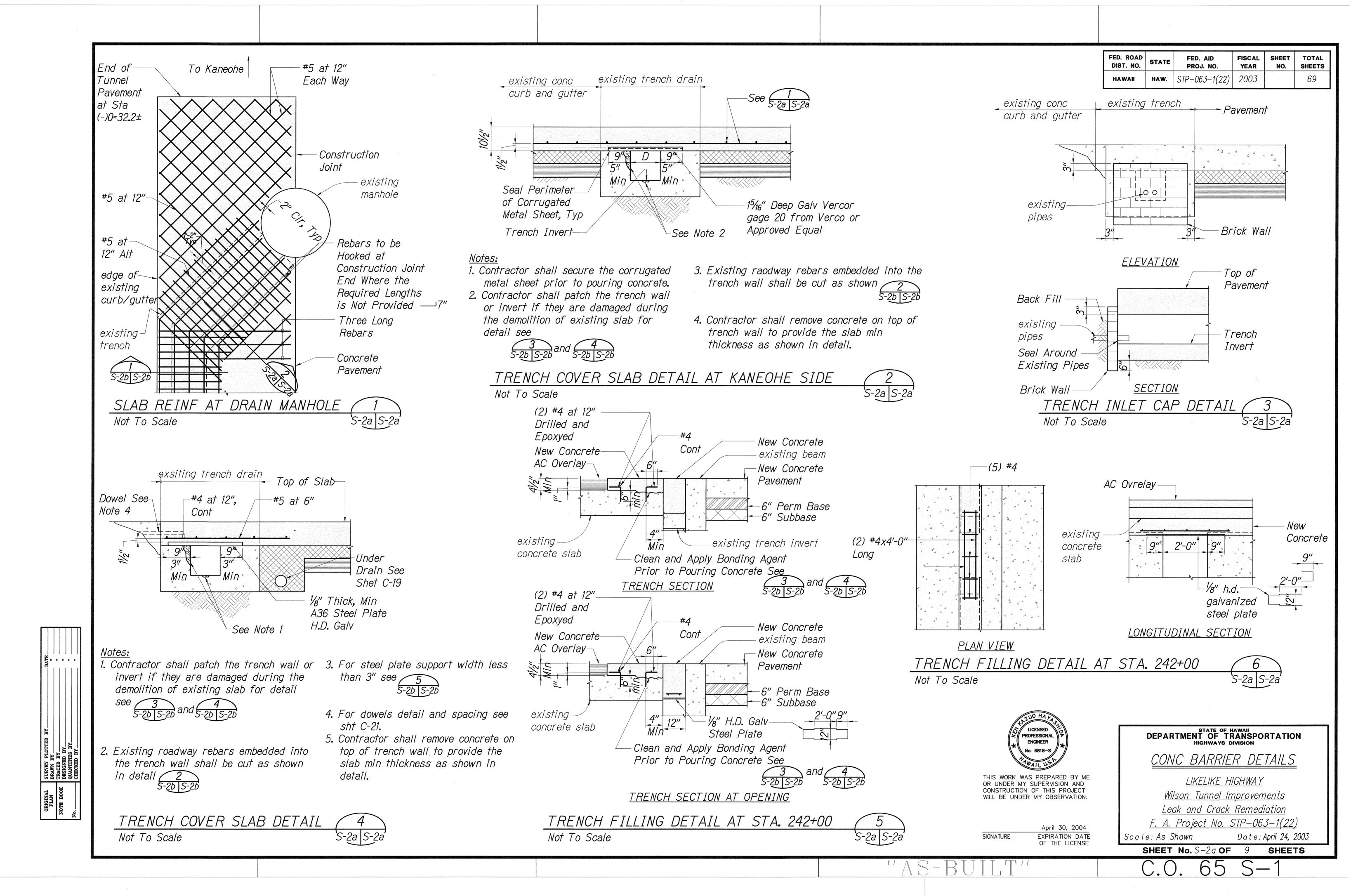
SHEETS

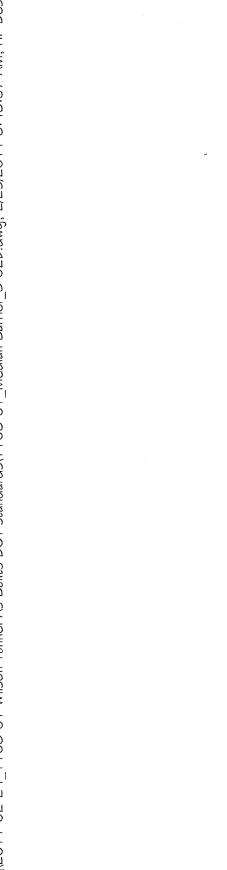
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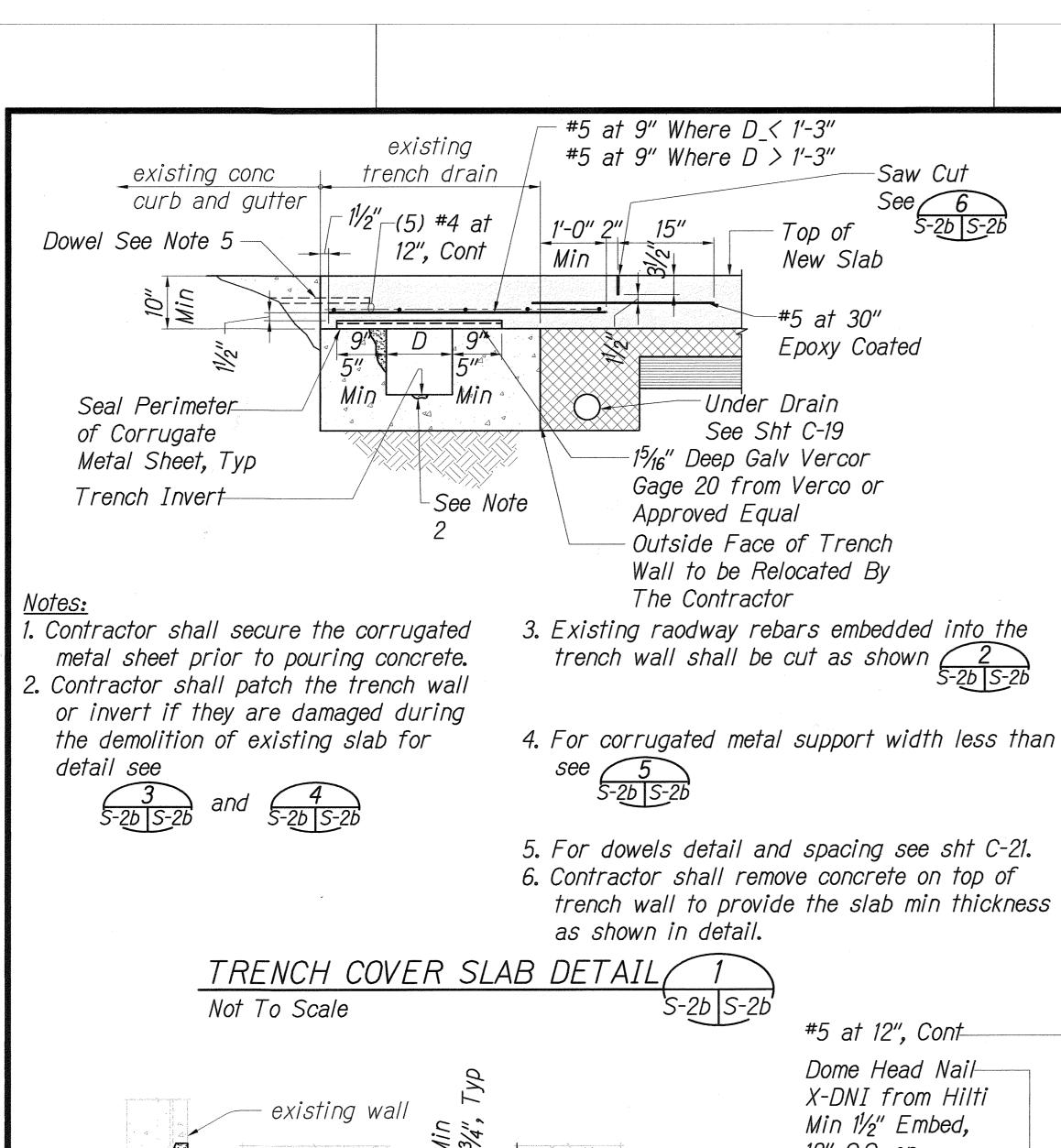
65

SHEETS

69







PLAN SECTION B

1/2" Deep Sawcut

Feathered Edges

1. clean and prepare concrete according to the surface

2. Clean any exposed reinforcement by sand-blasting or with a

4. Apply corrosion inhibiting bonding agent to all surface to be

5. Apply polymer modified patching mortar as recommended by

manufacturer to repair areas to original finish lines, or until

S-2b S-2b

a minimum of 11/2" of cover over reinforcing steel is obtained.

3. Substrate shall be saturated surface dry (SSD) with no

wire brush, removing all corosion, oil, dirt corosion, dirt and

All Around, No

ELEVATION

Type II Spall Repair Notes:

all other bond-inhibiting agents.

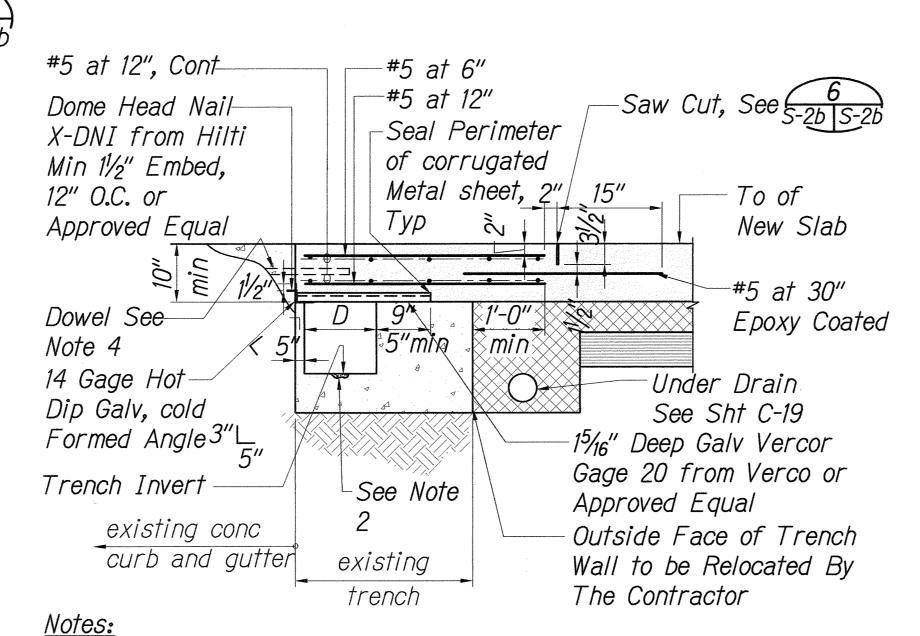
patched, including reinforcing steel.

PATCHING DETAIL TYPE II

preparation notes.

standing water.

Not To Scale



EXISTING REBAR CUTTING DETAIL Not To Scale

existing-

Concrete-

1. Cut off existing rebar flush with wall surface.

2. Clean cavity of all loose concrete, dust, and all

3. Apply rust inhibitor coating over the exposed

rebars before placing corrugated metall sheet

4. Rust inhibitor coating shall be a coat of rust-cleum

system rust-o-thane coating. Contractor may use

equal rust inhibitor coating upon the the approval

9369 epoxy primer and a coat of rust-cleum 9400

other bond inhibiting material.

Member

concrete slab.

of the engineer.

rebar

Cut/Existing

Remove

See Note

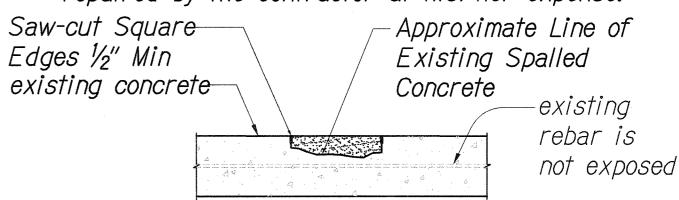
Rebar

3, Тур

FED. ROAD FED. AID PROJ. NO. TOTAL FISCAL SHEET YEAR SHEETS **HAW.** | STP-063-1(22) | 2003 69

Surface Preparation Notes for Spall Repairs:

- 1. Deteriorated concrete shall be removed down to sound substrate, or to the specified depth as noted in the spall repair details. Sawcut all edges ½" min, no feathering of patching material is allowed. Avoid cutting any reinforcing steel when sawcutting, the exposed concrete shall be roughened to a $\frac{1}{8}$ " min amplitude and shall be cleaned and free of laitance, dust, and other bond inhibiting materials.
- 2. A means of collecting spoils from the chipping of concrete shall be instituted to avoid any debris or construction materials from falling into the drainage system. If the contractor elects to use hydro-scarification equipment, he/she shall be responsible for collecting and properly disposing of the runoff water generated. Run off water will not be allowed to enter into the drainage system, or to constitute a hazard to adjacent drainage areas nor be allowed to erode existing
- 3. All reinforcing steel damaged due to the contractor's operations shall be repaired by the contractor at his/her expense.



- 1. Clean and prepare concrete according to the surface perparation notes.
- 2. Substrate shall be saturated dry (SSD) with no standing water.
- 3. Apply corrosion inhibiting bonding agent to all surfaces to be patched. 4. Apply polymer modified patching mortar as recommended by manufacturer to repair areas to original finish lines, or until a minimum of 11/2" of cover over reinforcing steel is obtained.

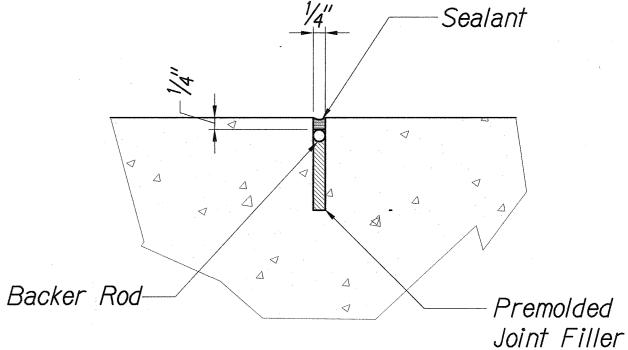




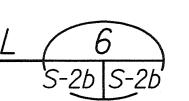
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SAW CUTTING DETAIL Not To Scale



LICENSED PROFESSIONAL ENGINEER

April 30, 2004 EXPIRATION DATE OF THE LICENSE

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONC BARRIER DETAILS

LIKELIKE HIGHWAY Wilson Tunnel Improvements

Leak and Crack Remediation F. A. Project No. STP-063-1(22)

Date: April 24, 2003 Scale: As Shown

SHEET No. S-2b OF SHEETS 65

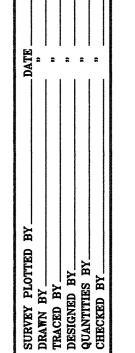
1. Contractor shall secure the corrugated metal sheet prior to pouring concrete. 2. Contractor shall patch the trench wall

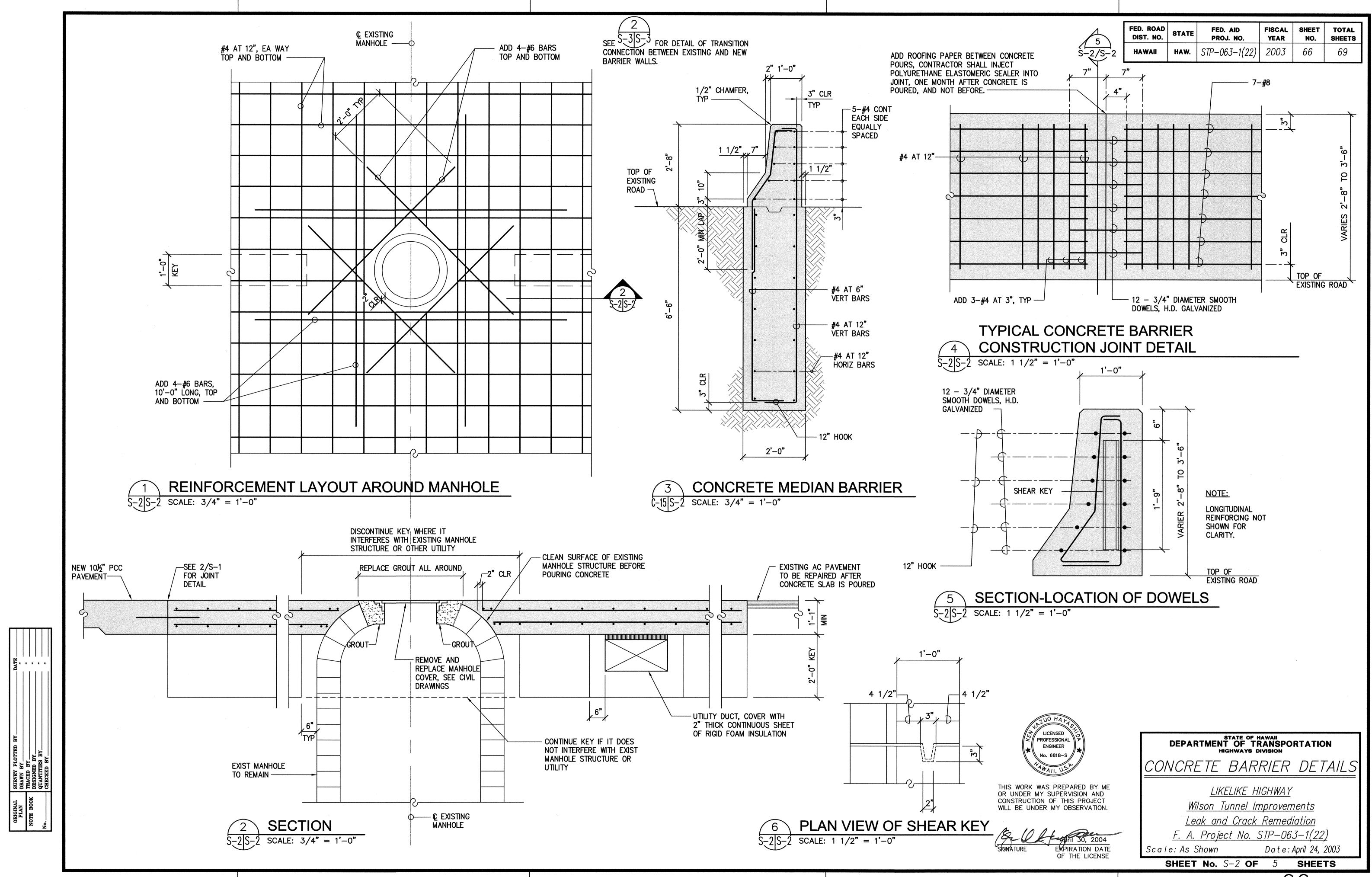
or invert if they are damaged during the demolition of existing slab for detail see

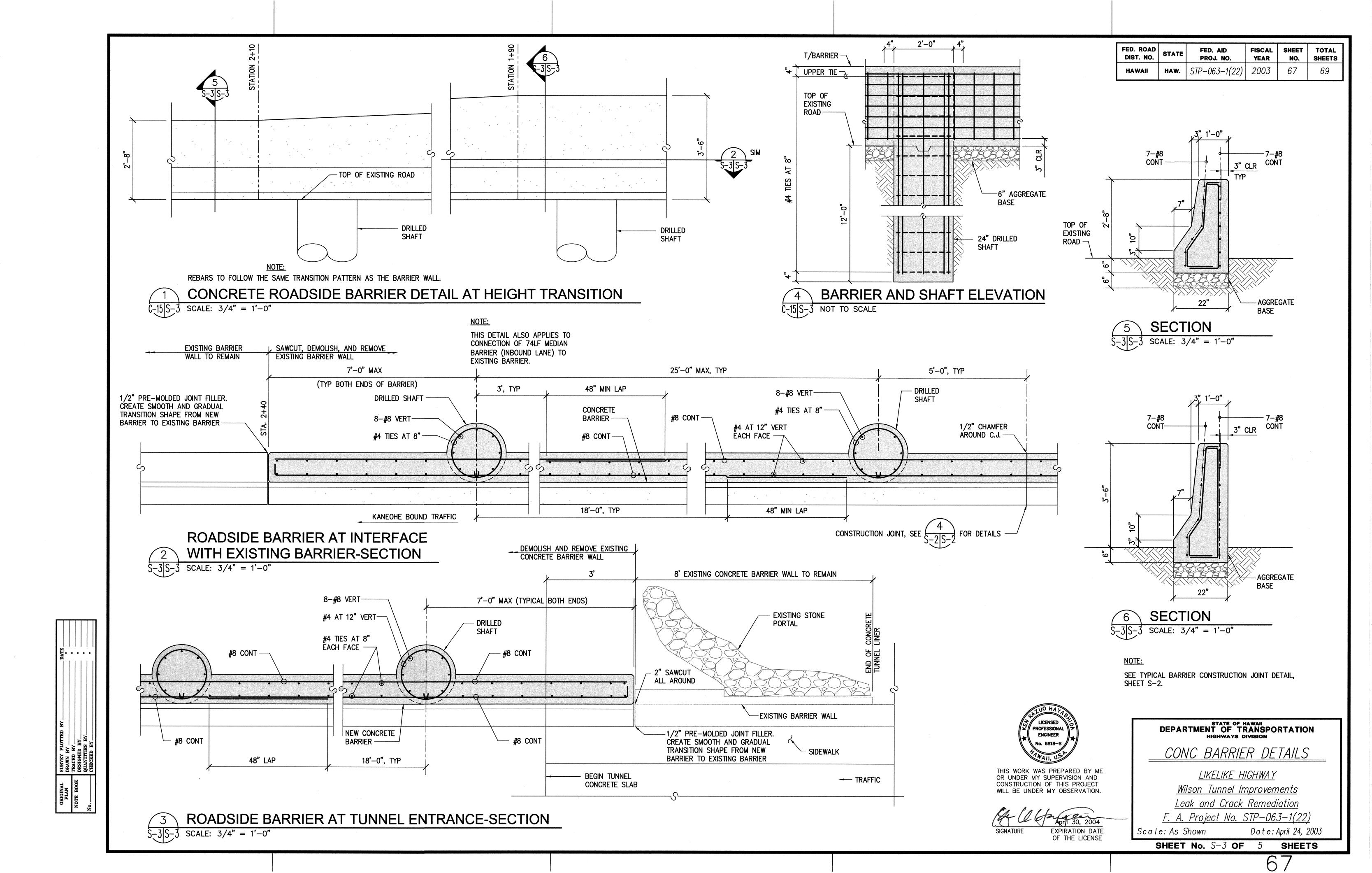
3. Existing randway rebars embedded into the trench wall shall be cut as shown 2 S-2b S-2b

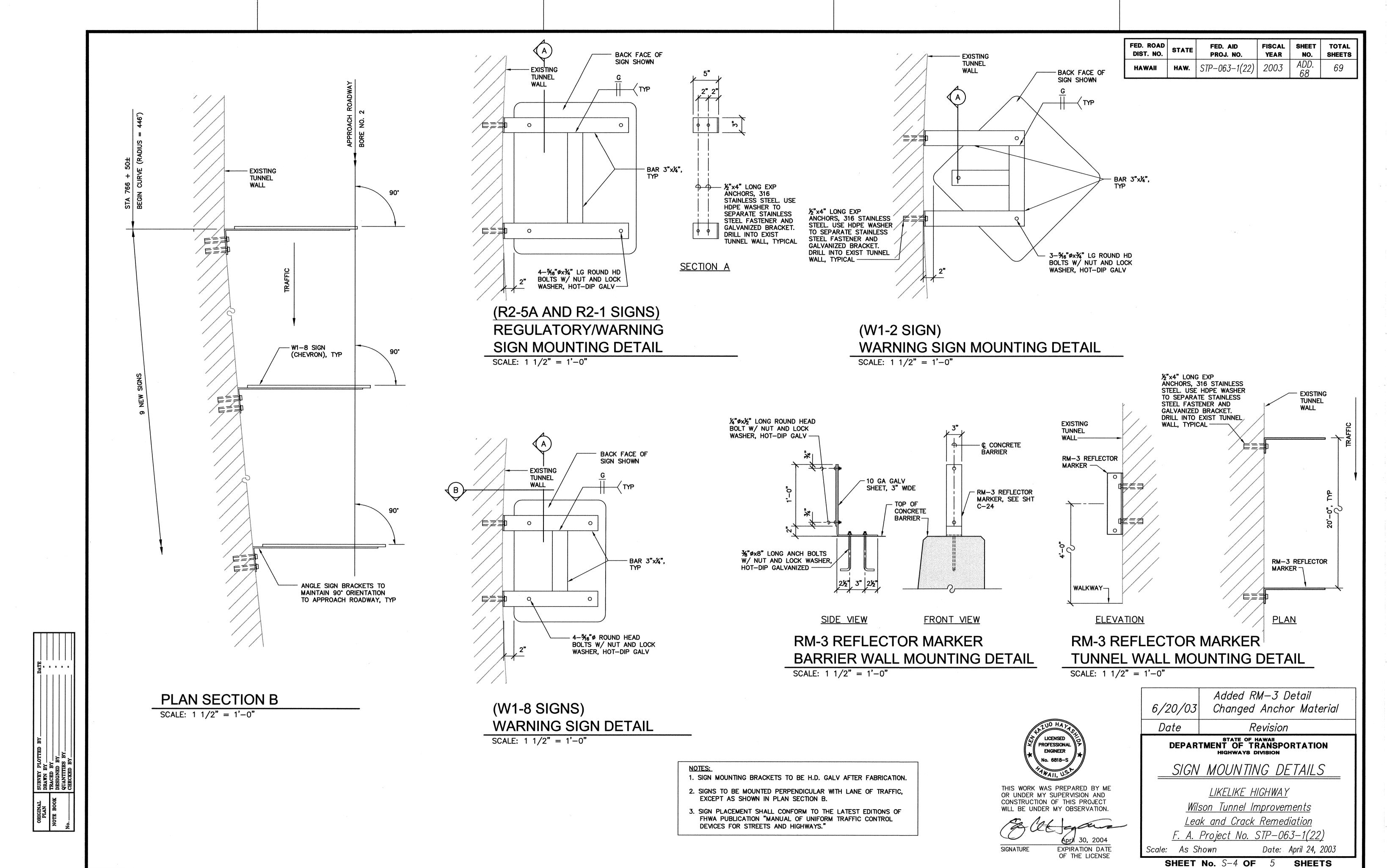
4. For dowels detail and spacing see sht C-21. 5. Contractor shall remove concrete on top of trench wall to provide the slab min thickness as shown in detail.

TRENCH COVER SLAB DETAIL 5 Not To Scale

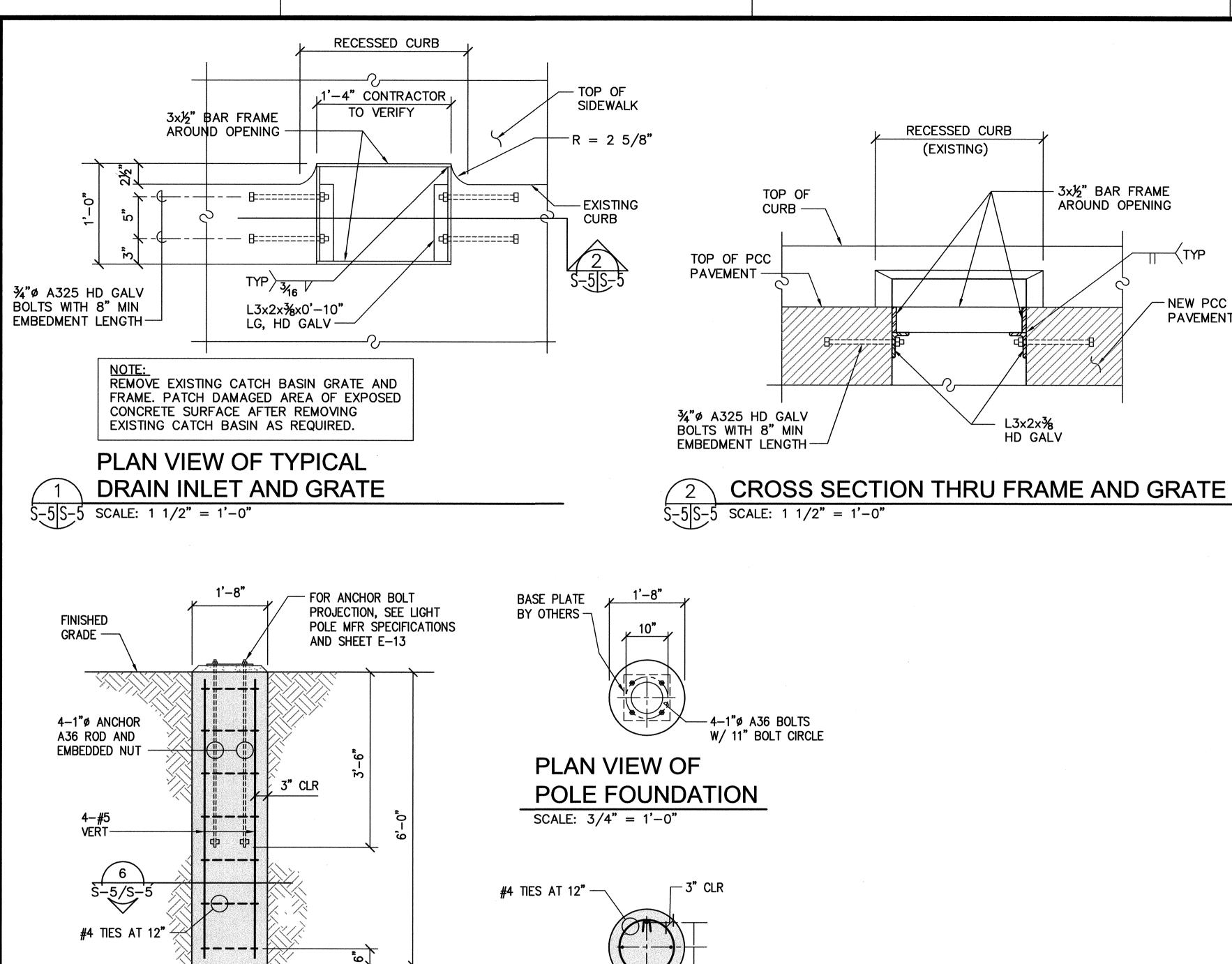






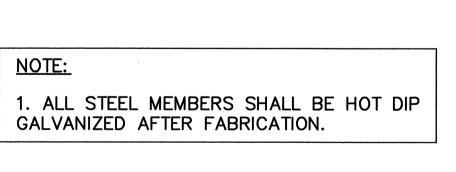


DD. 68



SECTION

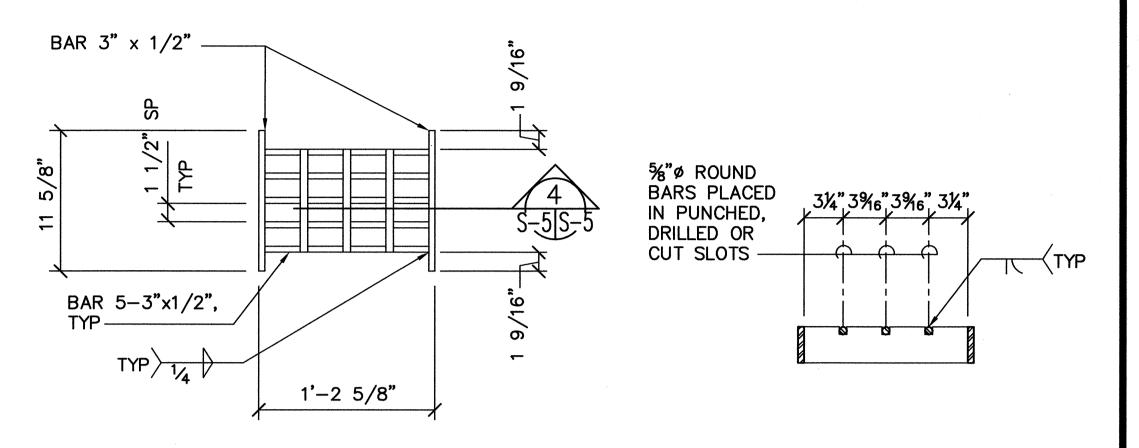
S-5 S-5 SCALE: 3/4" = 1'-0"

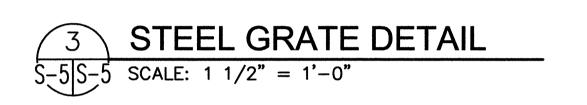


- NEW PCC

PAVEMENT

FED. ROAD FED. AID FISCAL SHEET TOTAL DIST. NO. PROJ. NO. YEAR SHEETS ADD. 69 HAW. STP-063-1(22) 2003 HAWAII







April 30, 2004

EXPIRATION DATE

OF THE LICENSE SIGNATURE

6/20/03 Modified Details 1 and 2 Date Revision

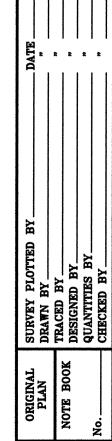
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

LIKELIKE HIGHWAY

<u>Wilson Tunnel Improvements</u> Leak and Crack Remediation

F. A. Project No. STP-063-1(22) Date: June 20, 2003 Scale: As Shown



ELEVATION

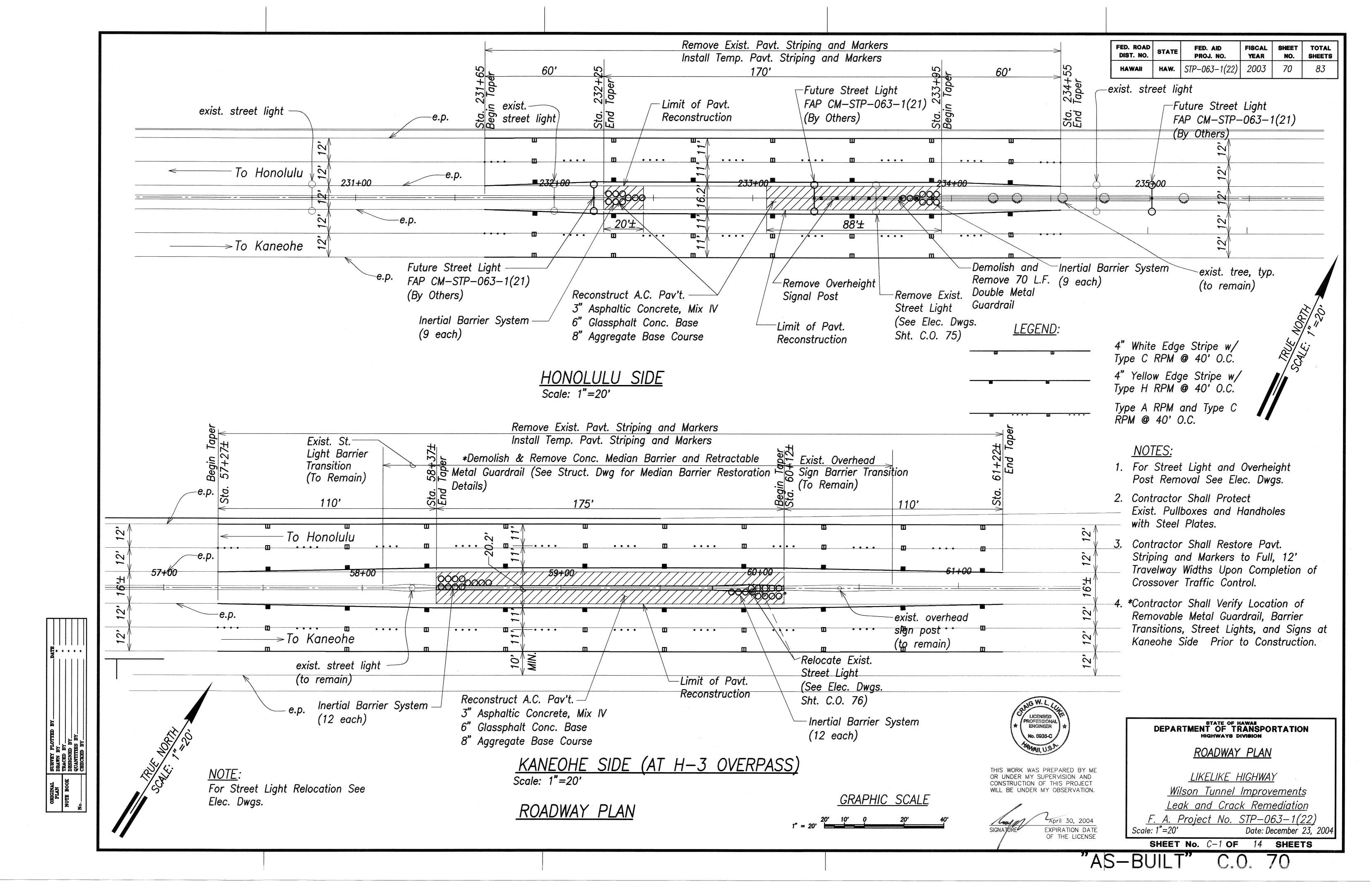
S-5 SCALE: 3/4" = 1'-0"

LIGHT POLE FOUNDATION

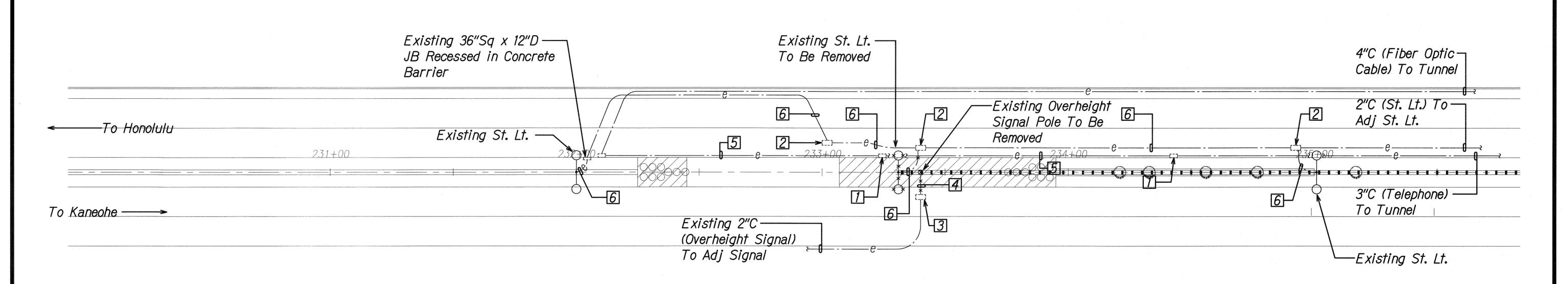
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SHEET No. S-5 OF 5

SHEETS 69



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-063-1(22)	2003	75	83



NOTES:

- 1. Dashed Line Symbol Denotes "Existing Item". Solid Line Symbol Denotes "New Item".
- 2. "X" Thru Item Denotes "Existing Item To Be Removed".
- 3. Contractor Shall Provide Temporary Street Lighting Until Installation of the New Street Light Poles Is Complete. New Street Light Poles to be Installed By Others.
- 4. [7] Existing 18" x 36" Telephone Pullbox.
 - Existing 2' x 4' St. Lt. Pullbox.
 - Existing 2' x 4' Overheight Signal Pullbox.
 - Existing 2"C (Overheight Signal).
 - Existing 3"C (Telephone).
 - Existing 2"C (St. Lt.).



ROADWAY ELECTRICAL PLAN - HONOLULU SIDE SCALE: 1"-20"



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April 30, 2006 EXPIRATION DATE OF THE LICENSE

HONOLULU SIDE LIKELIKE HIGHWAY Wilson Tunnel Improvements Leak and Crack Remediation F. A. Project No. STP-063-1(22) Date: Dec 23, 2004

LEGEND FOR

AS-BUILT POSTINGS

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ELECTRICAL ROADWAY PLAN -

posting

DEPARTMENT OF TRANSPORTATION

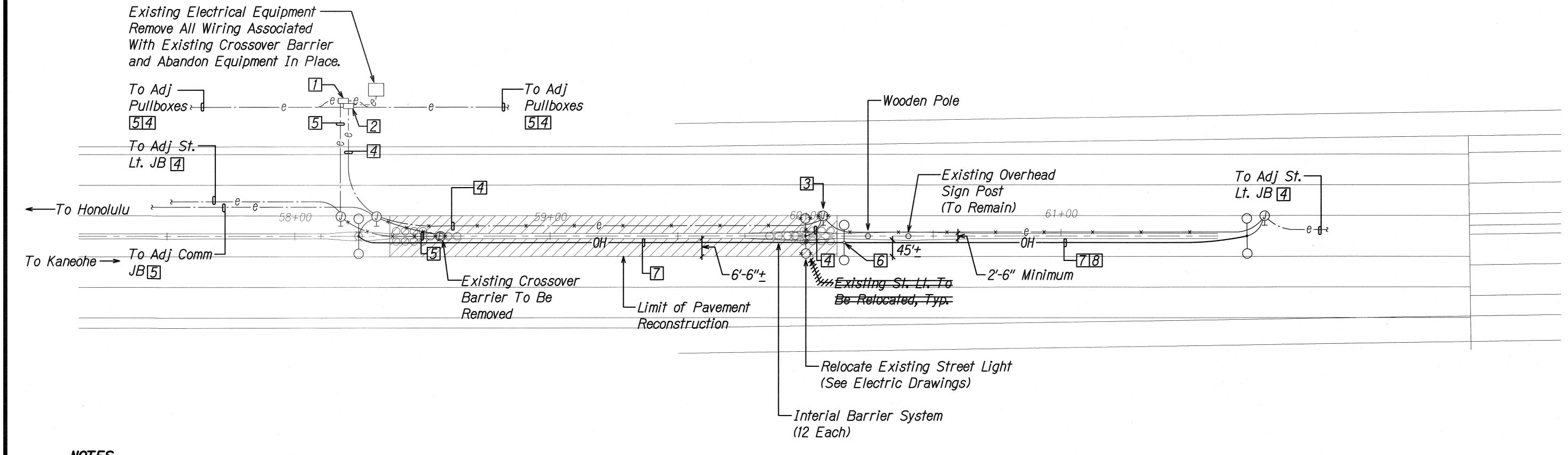
Scale: 1"=20' SHEET No. *E-1* OF 14 SHEETS

C.O. 75

SCALE: GRAPHIC SCALE

"AS-BUILT"

6					nicasyss	
	FED. ROAD	FED. ROAD STATE	FED. AID	FISCAL	SHEET	TOTAL
	DIST. NO.	SIAIE	PROJ. NO.	YEAR	NO.	SHEETS
	HAWAII	HAW.	STP-063-1(22)	2003	76	83



- NOTES:
- 1. All Items Shown Are Existing Unless Otherwise Noted.
- 2. "X" Thru Item Denotes "Existing Item To Be Removed".
- 3. Contractor Shall Provide Temporary Street Lighting Until Installation of the New Street Light Poles Is Complete.
- Existing 18" x 36" Telephone Pullbox.
 - Existing 2' x 4' St. Lt. Pullbox.
 - Existing JB Recessed In Concrete Barrier.
 - Existing St. Lt. Conduit.
 - Existing Comm Conduit.

- 6 New Temporary Wood Light Pole. See Detail A/E-5.
- 7 New Temporary Overhead St. Lt Conductors.
- Secure Temporary Conductors to Overhead Sign Post As Required to Maintain a Minimum Height of 18' Above Grade. Provide Messenger Wire to Minimize Conductor Sag.

ROADWAY ELECTRICAL DEMOLITION PLAN - KANEOHE SIDE (AT H-3 OVERPASS)
SCALE: 1"-20"



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GRAPHIC SCALE

SCALE:

April 30, 2006 EXPIRATION DATE OF THE LICENSE

LEGEND FOR AS-BUILT POSTINGS

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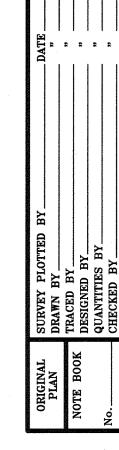
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DEPARTMENT OF TRANSPORTATION ROADWAY ELECTRICAL DEMOLITION PLAN - KANEOHE SIDE LIKELIKE HIGHWAY

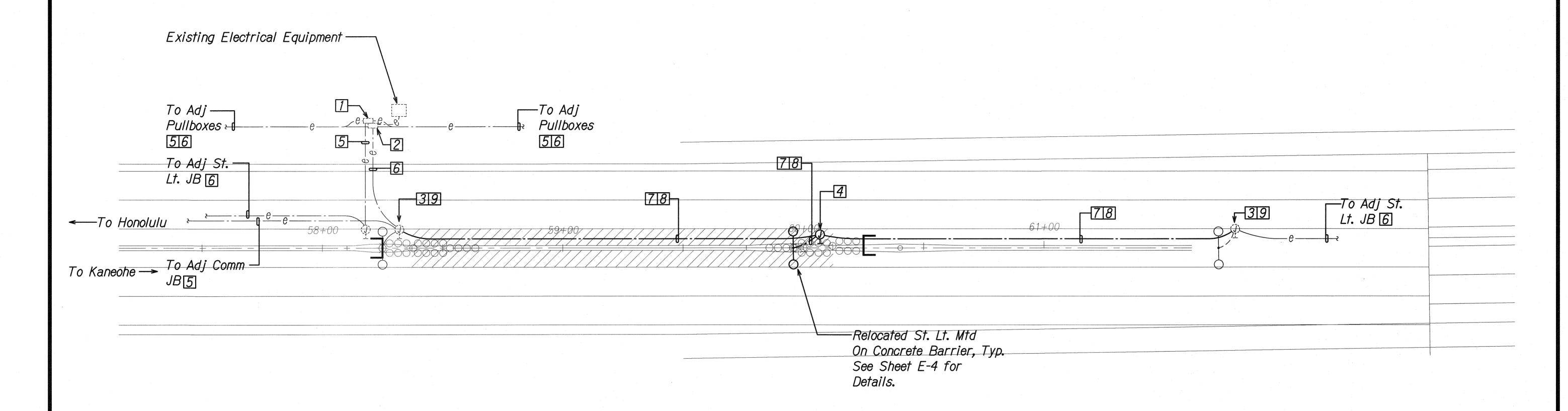
Wilson Tunnel Improvements Leak and Crack Remediation F. A. Project No. STP-063-1(22)

Date: Dec 23, 2004 Scale: 1"=20' SHEET No. **E-2** OF **14** SHEETS

"AS-BUILT"



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	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	STP-063-1(22)	2003	77	83



NOTES:

H.

ORIGINAL SURVEY PLOTTED BY
PLAN DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
CHECKED BY

- 1. Dashed Line Symbol Denotes "Existing Item". Solid Line Symbol Denotes "New Item".
- 2. [7] Existing 18" x 36" Telephone Pullbox.
 - Existing 2' x 4' St. Lt. Pullbox.
 - 3 Existing JB Recessed In Concrete Barrier.
 - [4] New 12"Sq x 6"D JB, SS, Weatherproof & Gasketed, Recessed In Concrete Barrier.

- 5 Existing Comm Conduit.
- 6 Existing St. Lt. Conduit.
- [7] New 2"C W/ St. Lt. Conductors. Conductors Shall Be Sized to Match Existing Conductors.
- Sawcut & Patch Existing A/C Pavement to Install Conduit. See Detail B/E-5 for Duct Section Detail.
- ☐ Chip ★ Patch Existing Concrete Barrier to Install New Conduit Into Existing Recessed JB. Contractor Shall Take Necessary Precautions to Ensure That the Existing Structural Rebars Within Concrete Barrier Are Not Damaged During Construction.



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April 30, 2006 EXPIRATION DATE OF THE LICENSE DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY ELECTRICAL PLAN -

AS-BUILT POSTINGS

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Roadway Text for as-built

posting

as-built deletion

KANEOHE SIDE LIKELIKE HIGHWAY

Wilson Tunnel Improvements Leak and Crack Remediation F. A. Project No. STP-063-1(22)

Scale: 1"=20'

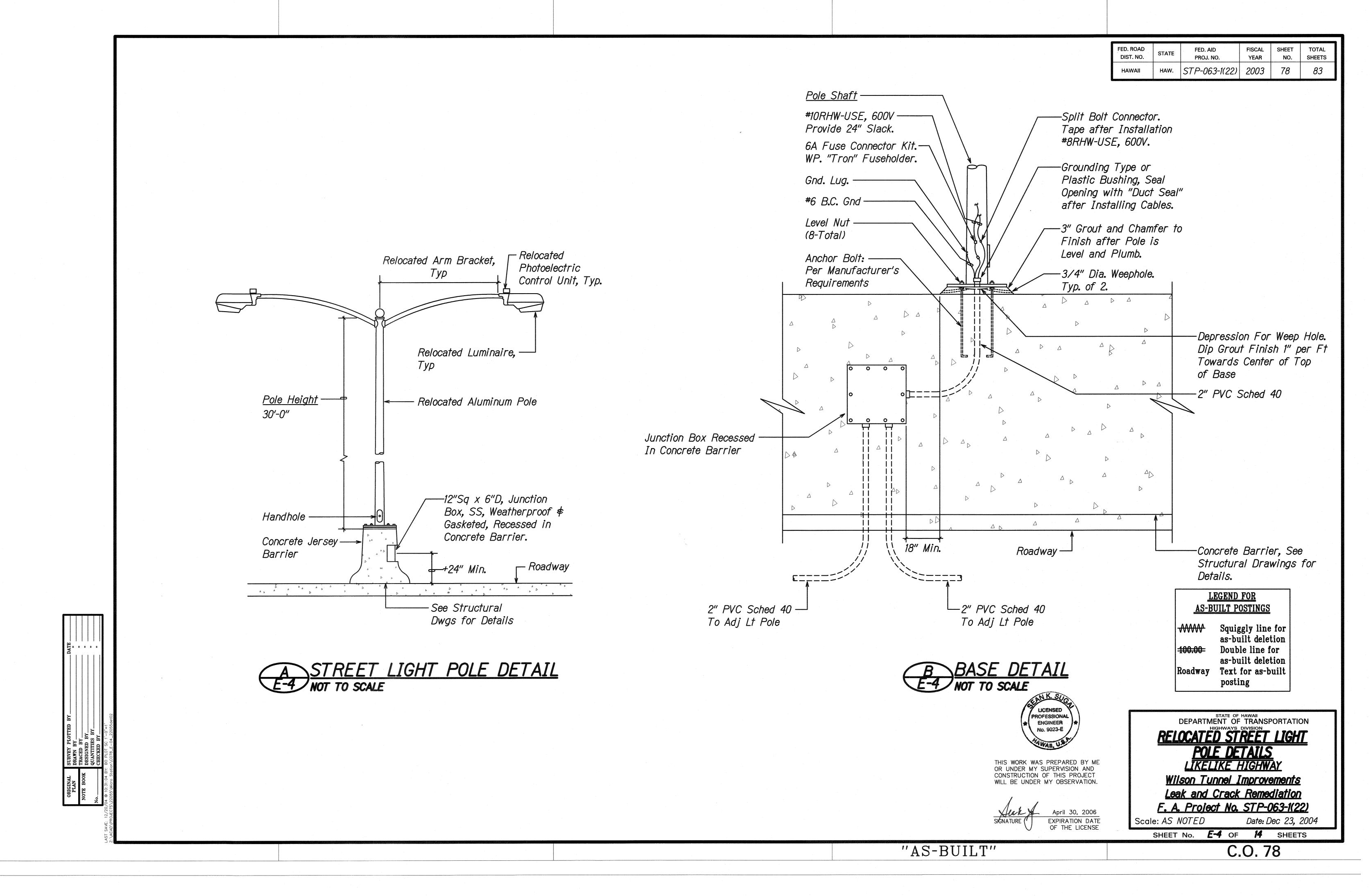
Date: Dec 23, 2004 SHEET No. *E-3* OF 14 SHEETS

SCALE:

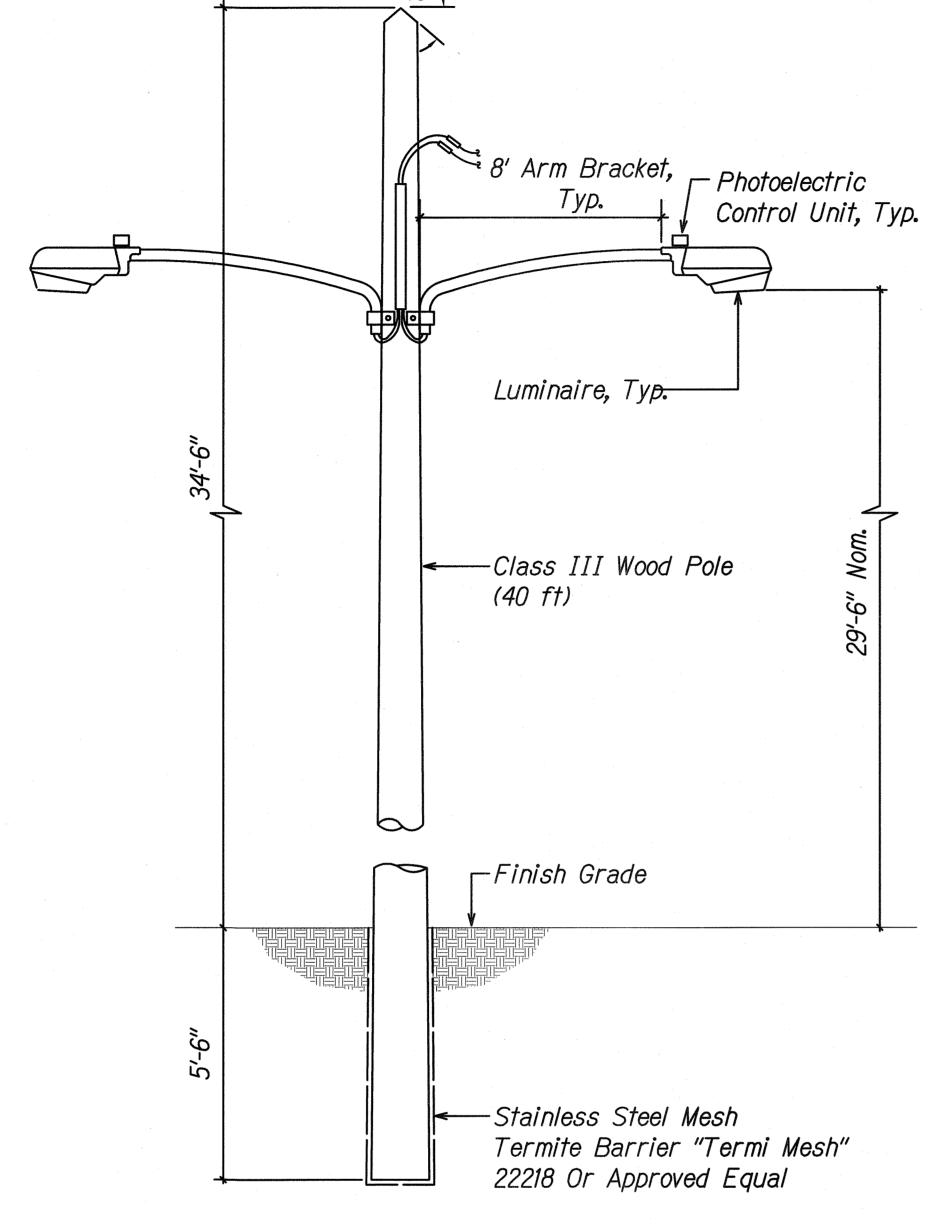
* ROADWAY ELECTRICAL PLAN - KANEOHE SIDE (AT H-3 OVERPASS)
SCALE: 19-20

"AS-BUILT"

GRAPHIC SCALE



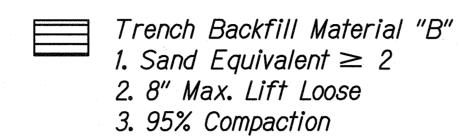
FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	STP-063-1(22)	2003	79	83



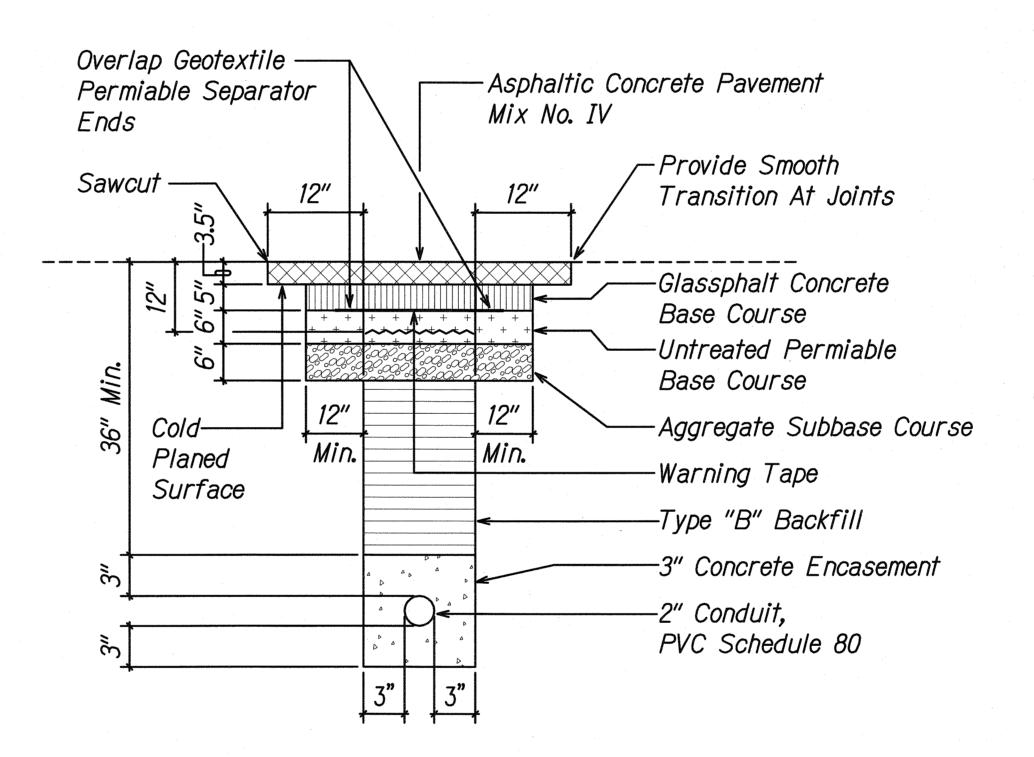
NOTES:

- 1. Minimum Top Circumference Is 23" Minimum Circumference At 6'-0" From Butt Is 37".
- 2. Pole Shall Be Treated With Pentachlorophenol Using The "Celon" Process, By A Licensed Termite Treatment Company.
- 3. Termite Treat The Bottom Of The Hole And Backfill Material With Aqueous Chemical Solution Consisting Of 0.5% Aldrin Or 0.5% Dursban. Minimum <u>5 Gallons Of The Solution Shall Be Used</u> For Each Hole. Application Shall Be Performed By Contractor Licensed For This Type Of Work. Treatment Shall Be Done As The Hole Is Being Backfilled.

TEMPORARY STREET LIGHT POLE DETAIL E-5 NOT TO SCALE



Concrete - 3" Encasement, 2500 PSI Compressive Strength @ 28 Days.



NOTES:

- 1. Tack Coat Existing Asphalt Bound Material Faces Prior To Filling Excavation With Asphalt Bound Material.
- 2. When Ground Water Is Encountered In Trenches. Backfill With Gravel Conforming To ASTM C-33, Size 67 Material Until One Foot Above Waterlevel. Encapsulate The Size 67 And Sides Of The Trench And Overlaps At The Top Of The Material For The Width Of The Trench. Complete Backfilling The Trench Per Detail.
- 3. Smoothness of Paved Surfaces: The Distance From The Paved Surface To The Testing Edge Of A Ten-Foot Straight Edge Between Two Points Of Contact Shall Not Exceed 3/16".
- 4. Base Course \$ Sub-Base Course Per 1994 State Standard Specifications For Highway Construction.
- 5. Sawcutting & Repairing Of Exst A.C. Pavement Shall Not Be Paid For Separately, But considered Incidental to the Various Contract Items.
- 6. The Metal Detectable Reel Warning Tape Shall Be A Minimum Of 5 Mils Thick And 4" Wide With A Continuous Metallic Backing And Corrosion Resistant 1 + Mil Thick Foil Core. The Message On The Tape Shall Read, "Caution-State Highway Lighting Cables Buried Below", Utility 2" Series "C" Black Lettering. The Message Shall Be Repeated With A 36" Spacing. Message Shall Be Repeated With A 36" Spacing. Warning Tape For Signal Corps Conduits Shall Be Per Signal Corps Standards.

STREET LIGHT DUCT SECTION DETAIL E-5 NOT TO SCALE



CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.



AS-BUILT POSTINGS Squiggly line for as-built deletion

LEGEND FOR

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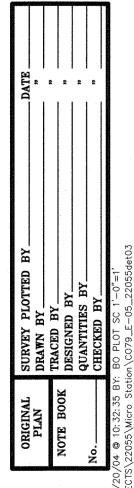
DEPARTMENT OF TRANSPORTATION

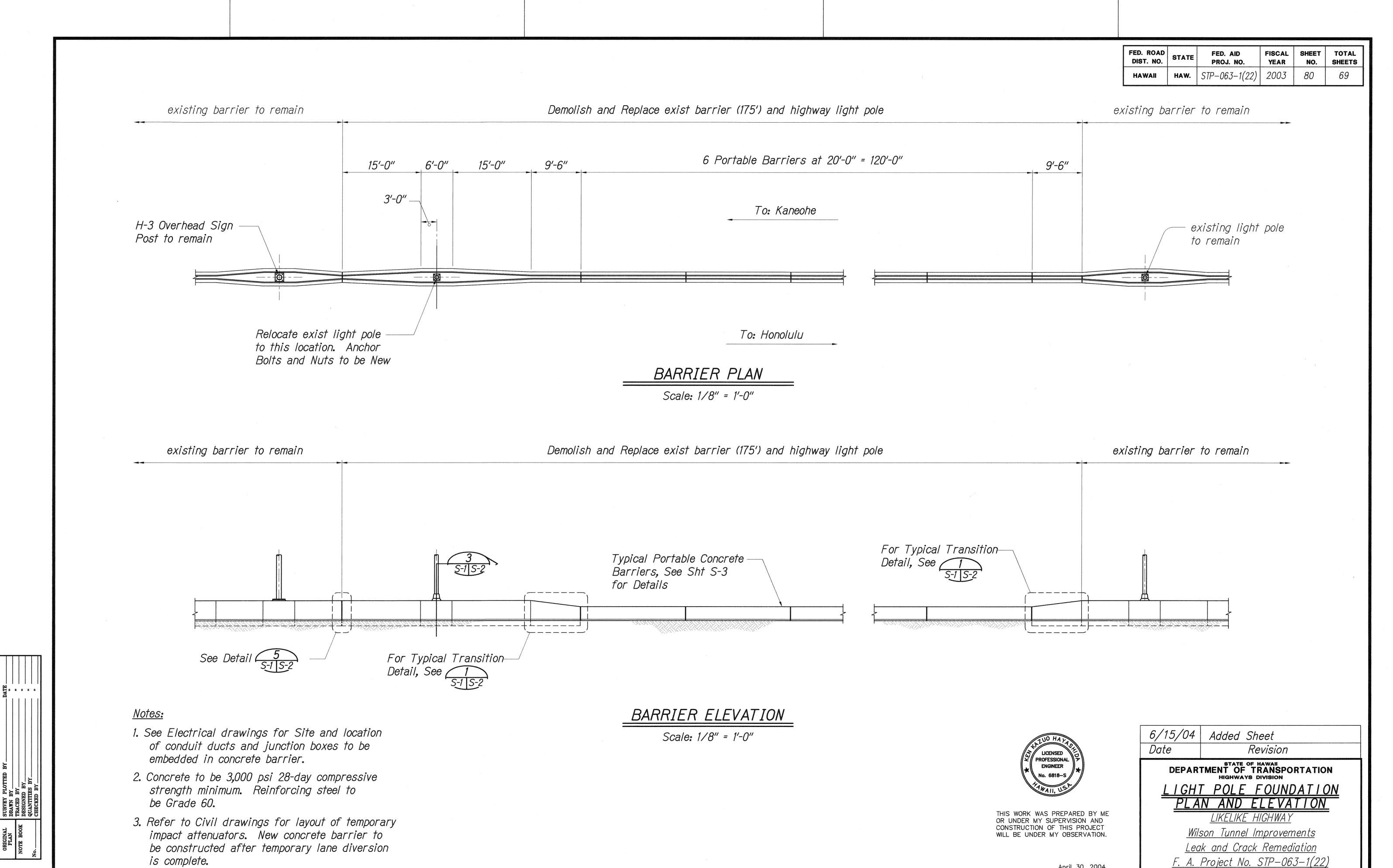
TEMPORARY STREET LIGHT POLE DETAIL

LIKELIKE HIGHWAY Wilson Tunnel Improvements Leak and Crack Remediation

Scale: AS NOTED SHEET No. **E-5** OF 14 SHEETS

F. A. Project No. STP-063-1(22) Date: Dec 23, 2004





April 30, 2004

EXPIRATION DATE OF THE LICENSE

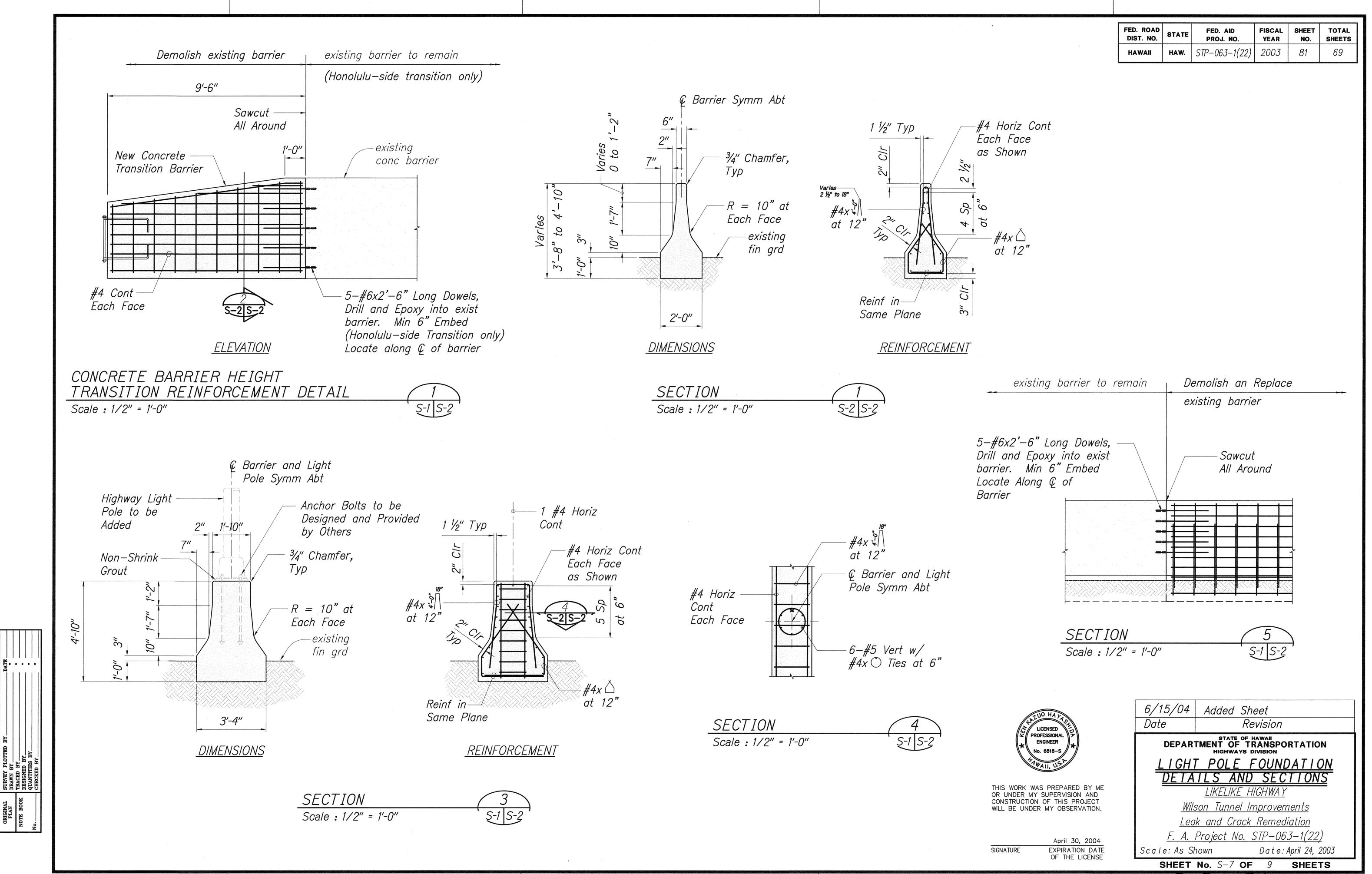
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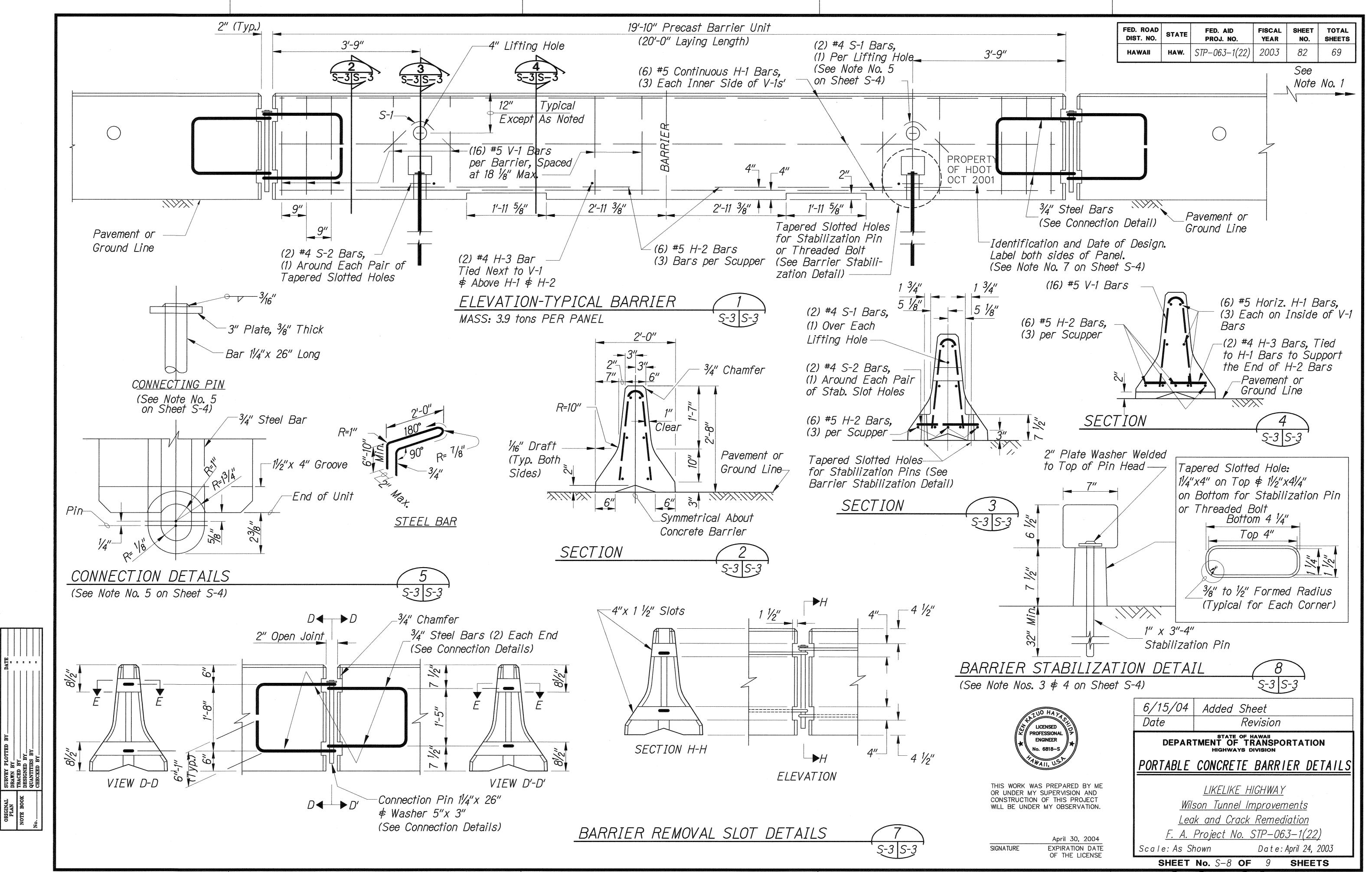
Scale: As Shown

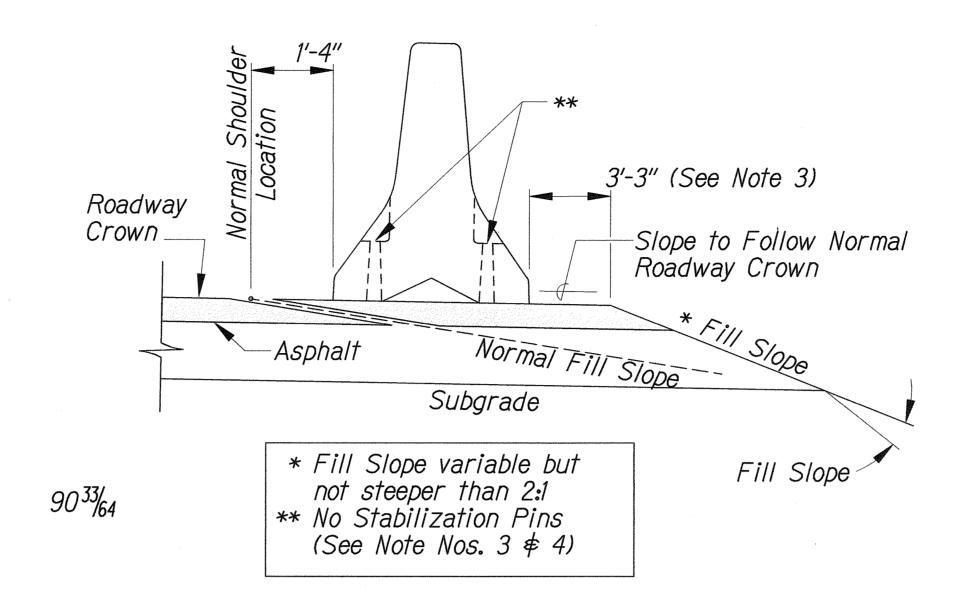
SHEET No. S-6 OF 9

Date: April 24, 2003

SHEETS







STANDARD INSTALLATION (See Note No. 1)

TABLE B

MAXIMUM TAPERS

FOR CONCRETE BARRIER

DESIGN SPEED

(mph)

70

60

55

50

45

40

35

30

TAPER

INSIDE BEYOND SHY LINE SHY LINE

28:1

26:1

21:1

17:1

15:1

13:1

20:1

16:1

14:1

12:1

11:1

8:1

TABLE A					
SHY LINE OFFSETS *					
DESIGN SPEED (mph)	SHY LINE OFFSETS				
70	10.0'				
65	9.0'				
60	8.5'				
55	7.0′				
50	<i>6.5′</i>				
45	6.0'				
40	<i>5.0′</i>				
35	<i>4.5′</i>				
30	<i>3.5′</i>				
25 2.0'					

* Note: Minimum shy line offset for tangent sections shall be 2'-0".

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	STP-063-1(22)	2003	83	69

NOTES:

- 1. For end treatment, layout, crash cushions and where needed see Project Plans or Special Provisions.
- 2. Barriers must be pinned together and cannot exceed the Table of Maximum Tapers.
- 3. The concrete barrier "Standard Installation" design allows for 3'-3" of outward lateral movement if the barrier is struck. Barrier installations that require less than the 3'-3" of outward lateral movement should have stabilization pins.
- 4. ASTM A-36 steel shall be used for the connection pin, connection loops and stabilization pins. A one piece pin with a 3" rounded top may be used in place of the detailed connection pin if the one piece pin meets ASTM A-36 requirements.
- 5. A 4" white PVC sleeve may be used to form the lifting hole and if used the sleeve is to be left in place.
- 6. Concrete shall be Class A and reinforcing shall be Grade 60.
- 7. Identification and date of design will be as follows:

 PROPERTY

 OF HDOT

OCT 2001
Text letters and numbers shall be shown as on
Standard Plan Sht. No. B-01. "PROPERTY OF HDOT"
may be changed depending upon ownership. All
Portable Concrete Barriers made for HDOT will be
subject to rejection, if "PROPERTY OF HDOT" is not
imprinted. The Contractor shall bear the cost of the
rejected Portable Concrete Barriers.

LICENSED PROFESSIONAL ENGINEER
No. 6818-S

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

April 30, 2004
SIGNATURE EXPIRATION DATE
OF THE LICENSE

6/15/04 Added Sheet
Date Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PORTABLE CONCRETE BARRIER

LIKELIKE HIGHWAY

Wilson Tunnel Improvements

Leak and Crack Remediation

F. A. Project No. STP-063-1(22)

Scale: As Shown Date: April 24, 2003

SHEET No. S-9 OF 9 SHEETS

"AS-RITTI"