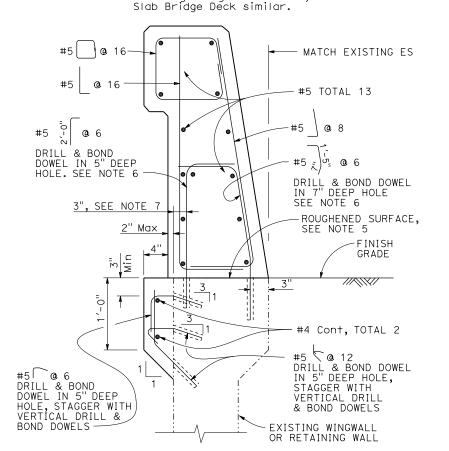


NOTE: Overhang Bridge Deck shown,



TYPE 836A(MOD)/842A(MOD), OPTION 1 NO SCALE

DESIGN NOTES:

AASHTO LRFD Bridge Design Specifications, DESIGN:

8th Edition with California Amendments

54 kip maximum traffic impact distributed over "Lt" = 3.5 feet at the top of the barrier, which results in the following values for "Lc" CT:

at the deck overhang:

Interior Segment** Near Joint Segment ***

TYPE 836 15.0 Feet TYPE 842

6.7 Feet 6.9 Feet

Load Combinations and "Lc" given for barrier attachments to existing bridge overhang only.

** Typical Segment at least "Lc" away from End Segment, *** Near Joint Segment within "Lc" from deck joint.

Load Combinations: Extreme II Q=1.00DC+1.00CT

Where:

Force Effects

Dead Load of Structure Components

Vehicular Collision Force Vehicular Dynamic Load Allowance

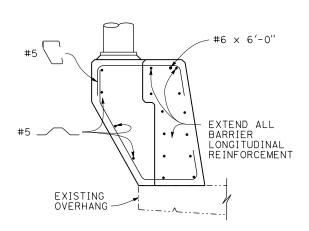
0 16 MATCH EXISTING ES #5 TOTAL 12 \o_i @ 6 DRILL & BOND DOWEL IN 7" DEEP HOLE SEE NOTE 6 ROUGHENED SURFACE, 3¾" Min SEE NOTE 5 GRADE ± Z Z Z Z Z //\\\ +4 Cont, TOTAL 2 #5 @ 12 DRILL & BOND DOWEL IN 5" DEEP HOLE, #5 @ 6 DRILL & BOND DOWEL IN 5" DEEP STAGGER WITH VERTICAL DRILL & BOND DOWELS HOLE, STAGGER WITH VERTÍCAL DRILL & EXISTING WINGWALL BOND DOWELS OR RETAINING WALL

TYPE 836A(MOD)/842A(MOD), OPTION 2 NO SCALE

POST MILES SHEET TOTAL PROJECT No. Dist COUNTY REGISTERED CIVIL ENGINEER DATE PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS CIVIL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET. THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN

NOTES:

- 1. Avoid existing reinforcement when drilling.
- 2. For details not shown, see RSP B11-79, RSP B11-80, RSP B11-81 & RSP B11-82. Dimensions may vary with roadway cross slope and with certain thicknesses of surfacing. See ROADWAY PLANS.
- 3. Clearance to reinforcing steel in barrier shall be 2", except as noted. Longitudinal reinforcement shall stop at all expansion joints.
- 4. For typical metal railing connection details not shown, see STANDARD PLANS A77U1 and A77U2.
- 5. Roughen existing bridge deck surface before casting new concrete against existing concrete.
- 6. Corbel shall be placed and cured before barrier drill and bond installation.
- 7. 3" may be increased to maintain 2" cover.
- 8. Type 836B/842B cannot be retrofitted onto the existing trench footings for Type 732B/736B/742B unless the footing was constructed per July 15, 2016 Revised Standard Plans or later. Type 836B/842B must be minimum length 40ft.
- 9. Concrete Barrier Type 842(MOD) shown in each detail, Concrete Barrier Type 836(MOD) details



NOTE: Not all reinforcement shown for clarity.

PEDESTAL ELEVATION NO SCALE

NOTE TO DESIGNER: (remove this note before printing) See user guide for more information

BRIDGE STANDARD DETAILS					STATE OF	DIWIGION OF	BRIDGE No.			Y	
xs16-045	October 2021 Details have been	of the Bridge Standard en prepared_under the			CALIFORNIA	DIVISION OF	XX-XXXX			^	
FILE NO.	responsible chard	responsible chargé of the Technical Owner, a registered civil engineer in the State of California			DEPARTMENT OF TRANSPORTA	_{ION} ENGINEERING SERVICE	Y.X	CONCRET	E BARRIER T	YPE 836/842	RETROFIT
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/ bridgemanuals/bridge-standard-detail-sheets/index.html			DATE PLOTTED => 9-SEP-2021 FILE => 202109-xs16-045.dgn	TIME PLOTTED => 09:05 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: XXXX PROJECT NUMBER & PHASE: XXXXXXXXX		ROUTE: XXX/XXX T No.: XX-XXXXX4	DISREGARD PRINTS BEARING EARLIER REVISION DATES _	REVISION DAT 10-21-19 2-11-21 9-8-2	