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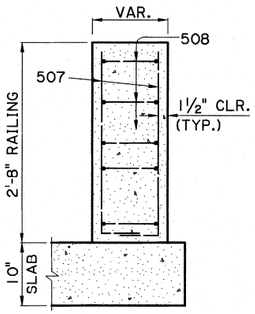
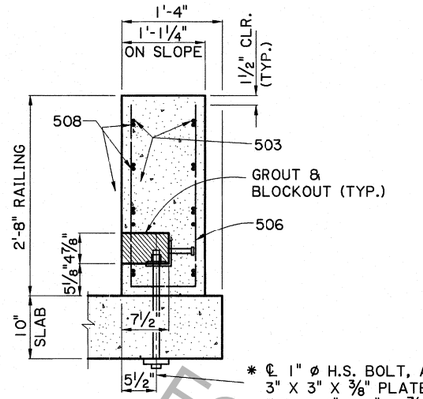
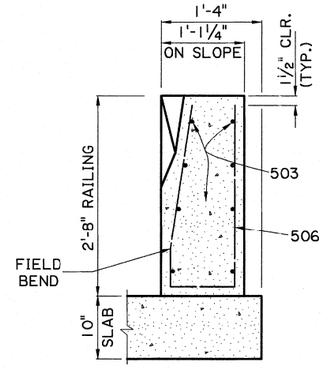


TAPER

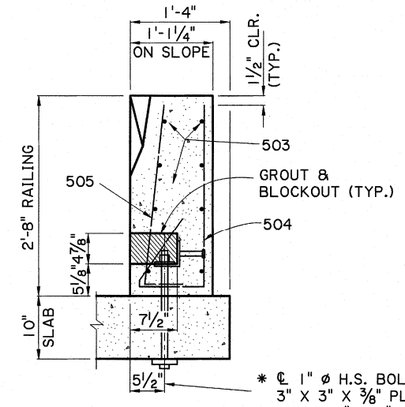


100% TRANSITION

* ℄ 1" ø H.S. BOLT, AND 3" X 3" X ⅜" PLATE WASHER TOP & 4" X 4" X ⅞" PLATE WASHER BOTTOM, AND ONE HEAVY HEX NUT (TYP.).

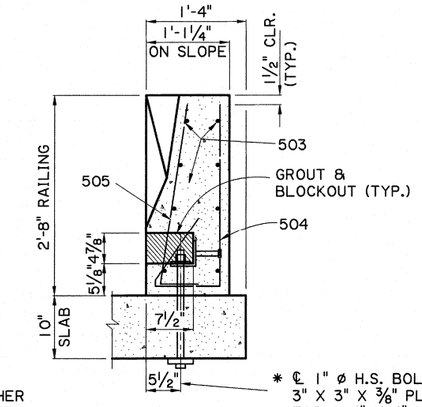


50% TRANSITION



50% TRANSITION

* ℄ 1" ø H.S. BOLT, AND 3" X 3" X ⅜" PLATE WASHER TOP & 4" X 4" X ⅞" PLATE WASHER BOTTOM, AND ONE HEAVY HEX NUT (TYP.).



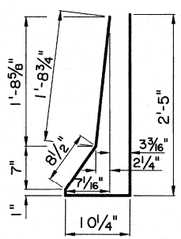
BEGIN TRANSITION

* ℄ 1" ø H.S. BOLT, AND 3" X 3" X ⅜" PLATE WASHER TOP & 4" X 4" X ⅞" PLATE WASHER BOTTOM, AND ONE HEAVY HEX NUT (TYP.).

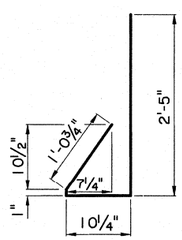
BARRIER RAILING TRANSITION SECTIONS

SCALE: 1" = 1'-0"

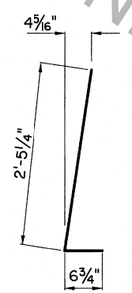
* 1" ø THREADED STUD OF EQUAL STRENGTH, WITH 2 NUTS & 2 WASHERS, MAY BE USED IN LIEU OF H.S. BOLTS.



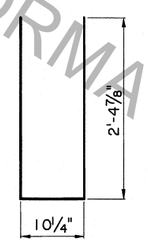
501
(2½" ø PIN)



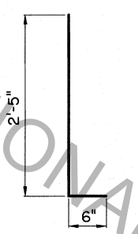
504
(2½" ø PIN)



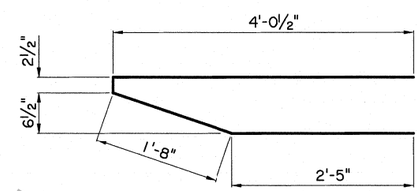
505
(2½" ø PIN)



506
(2½" ø PIN)



507
(2½" ø PIN)



508
(2½" ø PIN)

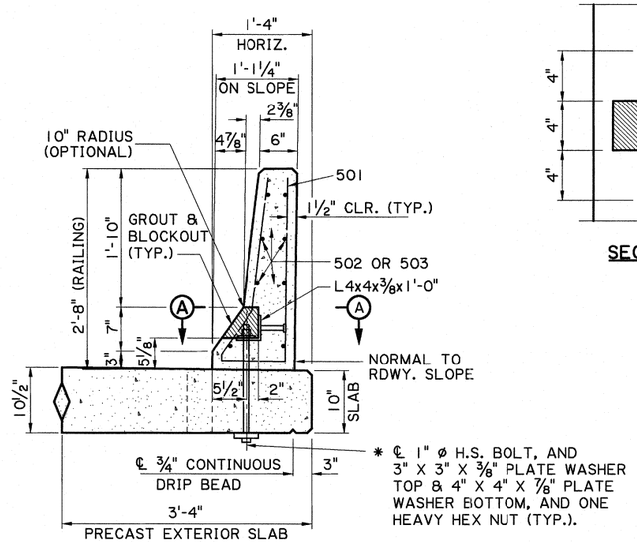
NOTES:

1) ALL BARRIER RAIL SURFACES ARE TO RECEIVE A CLASS 2A SPECIAL SURFACE FINISH.

2) ALL SURFACES OF THE BLOCKOUTS EXCEPT THE BOTTOM MAY BE TAPERED AND ALL CORNERS MAY BE ROUNDED TO A RADIUS TO ALLOW FOR EASY REMOVAL OF PLUGS OR FORMS. AFTER PLACING AND TIGHTENING THE ANCHOR BOLTS, THE BLOCKOUTS SHALL BE FILLED WITH AN APPROVED NON-SHRINK GROUT FROM QPL 47 AND TROWELED TO THE REQUIRED FINISH AND TO THE SATISFACTION OF THE ENGINEER.

3) AFTER BARRIER IS PLACED AND ALIGNED, ALL GAPS UNDER BARRIER AND TOP OF SLAB SHALL BE FILLED WITH NON-SHRINK GROUT FROM QPL 47 AND ALLOWED TO SET PRIOR TO TIGHTENING OF BOLTS. IT IS IMPORTANT TO FILL ALL VOIDS AND GAPS UNDER THE BARRIER TO ENSURE EVEN BEARING ON DECK WHEN THE ANCHOR BOLTS ARE LOADED.

4) ALL 1" ø BOLTS SHALL BE HIGH STRENGTH A325 OR APPROVED EQUAL. BOLT, NUT & WASHER TO BE GALVANIZED AS PER ASTM A-153. BOLTS SHALL BE TENSIONED TO 36 KIPS, OR APPROXIMATELY 540 FOOT-LB. OF TORQUE (LUBRICATED CONNECTION).



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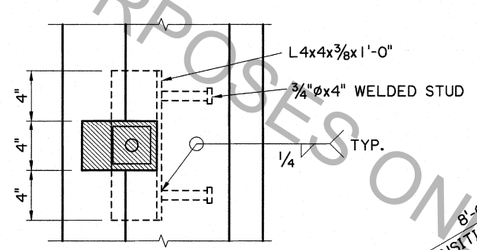
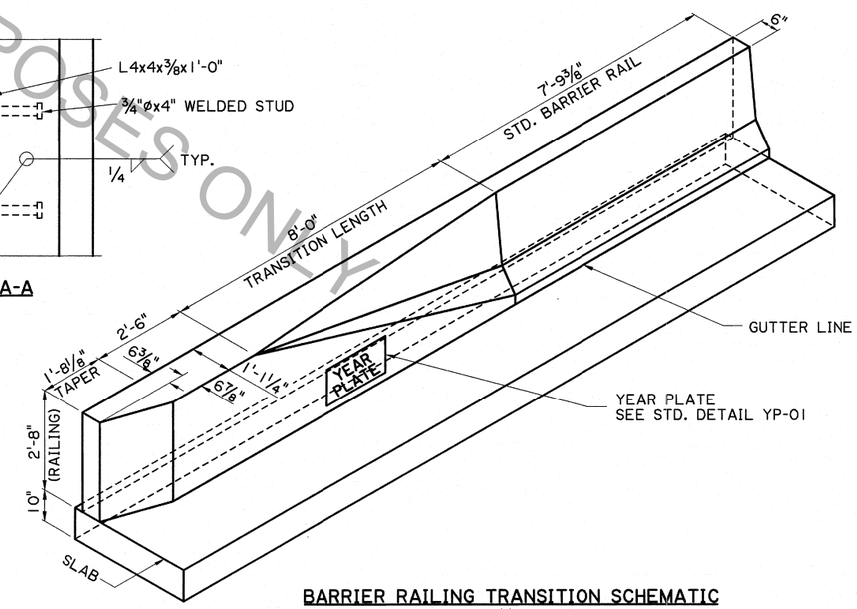
SECTION A-A
SCALE: 1" = 1'-0"



SECTION A-A



BARRIER RAILING TRANSITION SCHEMATIC
SCALE: ½" = 1'-0"

FOR INFORMATIONAL PURPOSES ONLY

STATE OF LOUISIANA
JENAN NAKHLEH
REG. No. 18692
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
Jenan Nakhleh 3/29/2013

DESIGNED B. DELATTE	CHECKED J. NAKHLEH	DETAILED D. HYMEL	CHECKED J. NAKHLEH
REVIEWED 3/06/2013	SERIES # 11 OF 13		

SHEET NUMBER | PARISH | CONTROL SECTION | STATE PROJECT

NO. | DATE | REVISION OR CHANGE ORDER DESCRIPTION | BY

ALTERNATE SPAN (3 OF 4)
20'-0" PRECAST CONC. BARRIER
24'-0" CLEAR ROADWAY
45° CROSSING TWO WAY TANGENT

STANDARD DETAIL PSS-45-24-20SL

BRIDGE & STRUCTURAL DESIGN

IP_PWP:d0220949\SS4524altspan3.dgn