

#5 BARS (SEE ELEV. VIEW STD. 30.10 FOR SPACING)

1

(7) - #5 BARS (TOP & BOTTOM)

6"

51-INCH VERTICAL CONCRETE BARRIER TRANSITION

#5 BARS (SEE ELEV.

VIEW STD. 30.10 FOR SPACING)

(TOP & BOTTOM)

TOP OF SHOULDER

AGGREGATE, ASPHALT, OR CONCRETE F.F.

(6) - #4 BARS (F.F. & B.F.)

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SECTION B-B

TRANSITION REGION

▲ 12" SELECT CRUSHED MATERIAL MAY BE ELIMINATED IF IT IS DETERMINED BY THE ENGINEER THAT THE EXISTING MATERIAL IS COMPACTED, GRANULAR MATERIAL.

FOR COLUMNS WITH "DIA." OR "L" GREATER THAN 3'-0", INCREASE THIS VALUE SO THAT B.F. OF FOOTING EXTENDS 9" BEYOND B.F. OF COLUMN.

2"-6"

SHOULDER MATERIAL

CONCRETE FOOTING

.9

BASE AGGREGATE DENSE, 1¼"_____

▲ 12" DEPTH OF SELECT CRUSHED MATERIAL -



(ADHESIVE ANCHOR) * FOR RECTANGULAR COLUMN USE STRAIGHT BARS OF THIS LENGTH



BAR BENDING DIAGRAMS

BAR DIMENSIONS ARE OUT TO OUT OF BAR



F.F. = FRONT FACE B.F. = BACK FACE

DESIGNER NOTES

THE DETAILS SHOWN ON STANDARDS 13.10 AND 13.11 ARE FOR VEHICLE PROTECTION AND ARE USED WITH EXISTING STRUCTURES.

CONSIDER PROVIDING AN ADDITIONAL TRANSITION SECTION ADJACENT TO THE OTHER EXTERIOR PIER COLUMN FOR THE FOLLOWING CONDITIONS:

 TWO-LANE ROAD IS ADJACENT TO BARRIER AND THERE IS A CONCERN FOR TRAFFIC CROSS-OVER.

 FUTURE TRAFFIC CONTROL NEEDS MAY CAUSE THE DIRECTION OF TRAFFIC ADJACENT TO BARRIER TO BE REVERSED.

CONTACT THE REGIONAL OFFICE FOR VERIFICATION OF ANY OF THESE CONDITIONS.

THESE DETAILS MEET CRITERIA FOR TEST LEVELS TL-3/TL-4.

HAZARDS MAY EXIST IN THIS REGION THAT REQUIRE SHIELDING.

FOR VEHICLE PROTECTION, SEE FDM 11-35-1 TO DETERMINE WHEN BEAM GUARD OR CONCRETE BARRIER SHOULD BE PLACED BETWEEN THE TRAFFIC AND THE PIER, OR WHEN AN INTEGRAL BARRIER SHOULD BE USED.

51-INCH VERTICAL CONCRETE BARRIER AND TRANSITION

SEE STANDARD 13.10 FOR ADDITIONAL DETAILS



STANDARD 13.11