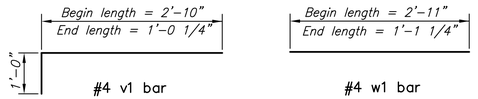
STATE	PROJECT NO.	YEAR	SHEET NO.	SHEETS
KANSAS	87 N–0351–01	2012	49	220



(v1 and w1 bar – cut 2 of each length at 3/4" increments)

BENDING DIAGRAM

All dimensions are out to out unless otherwise noted.

DESIGN DATA

Concrete: $f'c = 4{,}000$ psi
Reinforcing Steel: $f_y = 60{,}000$ psi
Structural Steel: $f_y = 36{,}000$ psi

BILL OF MATERIALS (ONE TRANSITION ONLY)

Bar Schedule △ See Bending Diagram

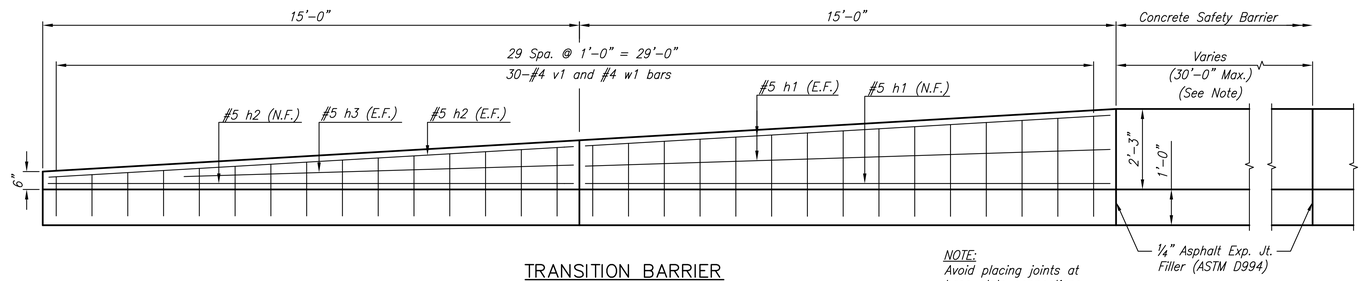
Bar	h1	h2	h3	v1	w1
No.	16	6	4	60	60
Size	#5	#5	#5	#4	#4
Length	14'–8"	14'–5"	10'–8"	△	△

GENERAL NOTES

1. Concrete Safety Barrier shall be paid for as L.F. of "Concrete Safety Barrier" and includes all work and materials required to construct the Barrier and Transition Barrier as shown on this sheet.
2. Transition Barrier shall be paid for as lineal feet of "Concrete Safety Barrier."
3. Formed joints shall be edged with 1/4" radius tool for length of joint.
4. Clearance from the face of concrete for all reinforcing steel, unless noted, shall be 2".
5. All casting to existing concrete, if cast previously, shall be brush blasted and power washed prior to casting concrete.
6. All existing concrete shall be water soaked for 2 hours prior to casting concrete.
7. All reinforcing steel shall meet requirements of "Reinforcing Steel (Epoxy Coated)(Grade 60)".
8. Standard reinforcing bar hooks in accordance with the latest ACI specifications shall be used throughout unless noted otherwise.
9. Concrete shall meet requirements of "Concrete (Grade 4.0)(AE)".

HANDRAIL, SPECIAL NOTES

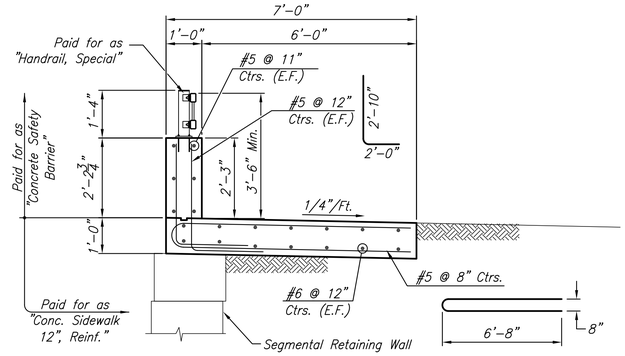
1. The rail members shall conform to ASTM Designation A36 or equivalent.
2. Rail shall be fabricated in lengths to include a minimum of two and a maximum of three panels. Posts shall be set vertical. Shims may be used between concrete and base plates of posts.
3. All parts of handrail shall be painted. The primer coat shall conform to the inorganic zinc system. Surface preparation shall be in accordance with that for structural steel. The finish coat shall be in accordance with water–borne acrylic finish coat.
4. The Contractor shall submit color chart for approval by the City. The color shall be "black (carboline C900)".
5. All materials, equipment and labor necessary for the installation of the handrail shall be subsidiary to the bid item.



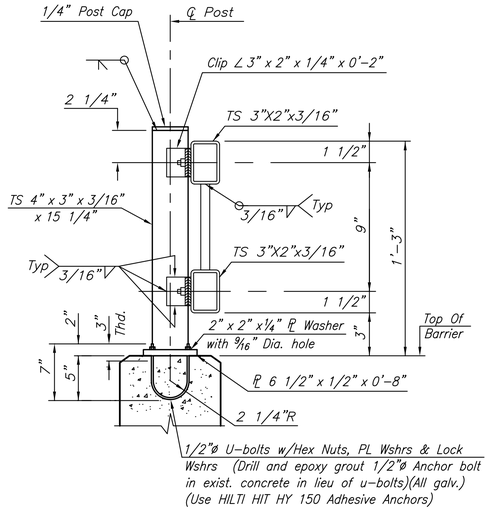
TRANSITION BARRIER

(Typ. at each end)

NOTE:
Avoid placing joints at base plate connections

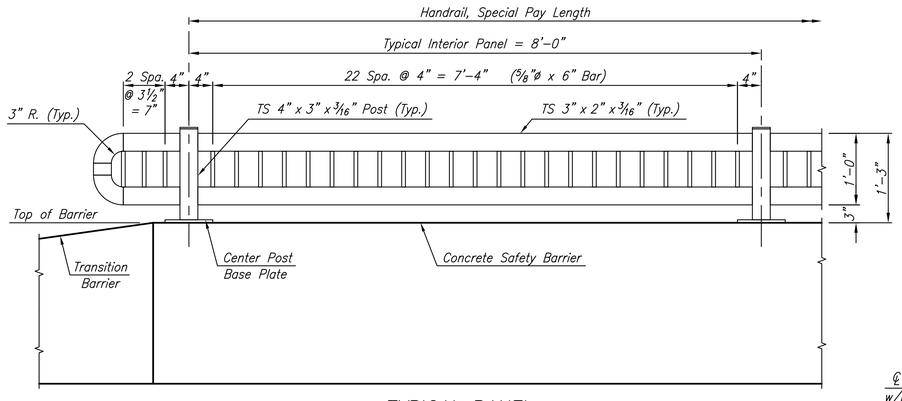


MOMENT SLAB DETAIL

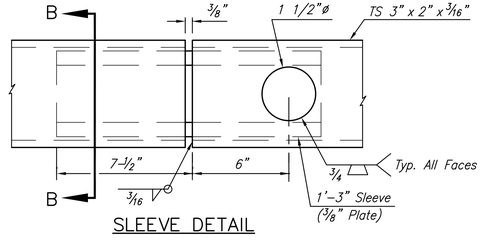


TYPICAL RAIL SECTION

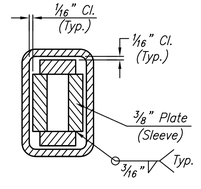
NO SCALE



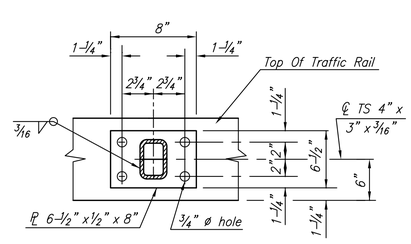
TYPICAL PANEL



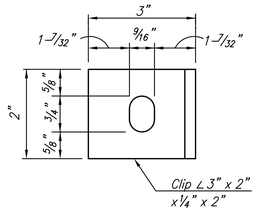
SLEEVE DETAIL



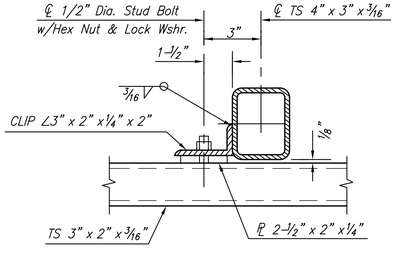
SECTION B–B



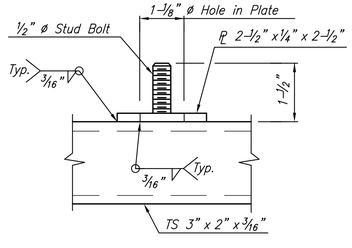
BASE PLATE DETAIL



CLIP DETAIL



RAIL CONNECTION DETAIL



STUD BOLT DETAIL

MKEC ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600

CENTRAL AVENUE IMPROVEMENTS FROM 135TH ST. W. TO 119TH ST. W.

TRAFFIC RAIL AND MOMENT SLAB DETAILS

SHEET TITLE

472–84017

PROJECT NUMBER

JRA — DESIGN BY
WNJ — DRAWN BY
JRA — CHECKED BY

ISSUED: November 9, 2012

REVISED

SHEET NO. 49 of 220

J:\Civil\04238\dwg\Details\04238 Moment Slab.dwg

PLOTTED: Wednesday, November 14, 2012 @ 01:56PM