

Diagram illustrating a vertical curve with a +1.67% grade and a -0.5% grade. The vertical curve length is 100 feet. The PVI is at station 13+50.00 with an elevation of 471.67 feet.

FINAL PLANS

NOTE

 Indicates location of burrows

[illegible]

am #2

NOTE:

NOTE: Any portion of the existing bridge that interferes with the new construction shall be removed to clear new construction. Payment for any removal required to clear new construction shall be considered to be completely covered in the unit bid price for Removal of Bridge (A481).

[illegible]

STATE ROAD FROM TAYLOR AVE. TO EAST GRAND BLVD.

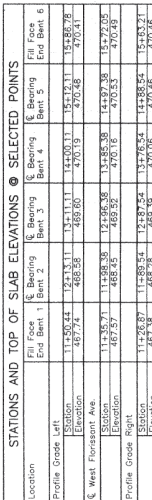
26

CITY OF ST. LOUIS

STD 706 35

STD.	611.60
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STD. 609.00
A5984



PLAN

iPAN (5-6)

PAN (4-5)

PAN (3-4)

PAN (2-3)

UN (1-2)

Temporary Shoring



90/067-1

Designed by: DLS Date: Dec. 1998
 Drawn by: JDG Date: Dec. 1998
 Checked by: JN Date: Dec. 1998

Horner & Shiffrin, Inc.
 Engineers/Architects/Planners
 5200 Oakland Avenue
 Oakland, CA 94612-4000
 Tel: 415/764-1100
 Fax: 415/764-1101

NOTE- THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

SHEET NO. 1 OF 61

FINAL PLANS

STATE	PROJ. NO.	SHEET NO.
MO. 6.1.3.10.5	1313	1313-10.5

6 15/16" Cir.
per Existing Plans

See 3" x 5" Rock Socket
through Existing Shaft.

3" Cir.

Existing Drilled Shaft

SECTION J-J

Notes:

Details for footings are shown on Sheet No. 15.

For details of Laminated Bearing Pads, See Sheet No. 36.

All reinforcing bars in the top of substructure beam caps shall be spaced to clear anchor bolt wells for bearings by at least 3/4".

For details of Anchor Bolt Wells, See Sheet No. 36.

Cross sections A-A, B-B, C-C, D-D, E-E and F-F are shown on Sheet No. 15.

* All concrete above top of drilled shafts shall be Class B1.

** Lapping of spiral reinforcement in this region is not permitted.

*** Removal of Existing Shaft to Elev. 435.94 shall be included in Removal of Existing Bridge (Lump Sum).

f_c = 4,000 psi concrete.

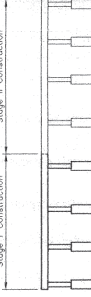
All concrete above top of drilled shafts shall be Class B1.

Lapping of spiral reinforcement in this region is not permitted.

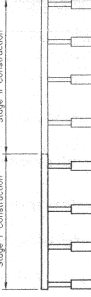
Removal of Existing Shaft to Elev. 435.94 shall be included in Removal of Existing Bridge (Lump Sum).

FOR INFORMATION ONLY

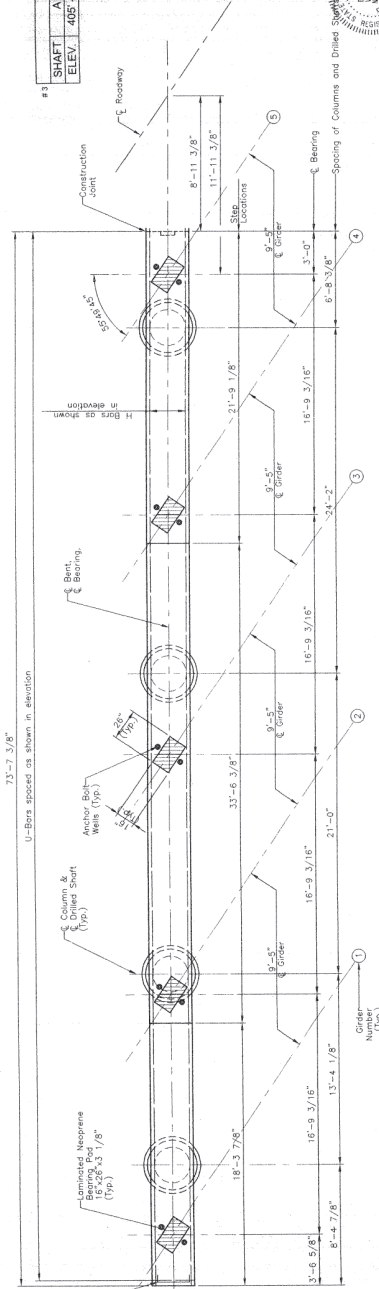
Slope I Construction



Slope II Construction



#3	B.O.H. ELEVATIONS								
	SHAFT	A	B	C	D	E	F	G	H
	ELEV	405'-1"	406'-2"	405'-2"	404'-0"	405'-8"	404'-0"	408'-9"	409'-10"



STAGE I ELEVATION OF BENT NO. 3

STAGE I PLAN OF BENT NO. 3

Designed by: ERM Date: Dec. 1998
 Drawn by: J20 Date: Dec. 1998
 Checked by: DLS Date: Dec. 1998

Horner & Shifrin, Inc.
 Engineers/Architects/Planners
 801 West Main Street
 St. Louis, Missouri 63101



Final Plans
 The undersigned hereby certifies that the above described project was prepared by him or her or under his or her direct supervision and that he or she is a duly licensed Professional Engineer in the State of Missouri.
 Date: 12/23/98
 Signature: [Signature]
 Title: Professional Engineer

12/23/98

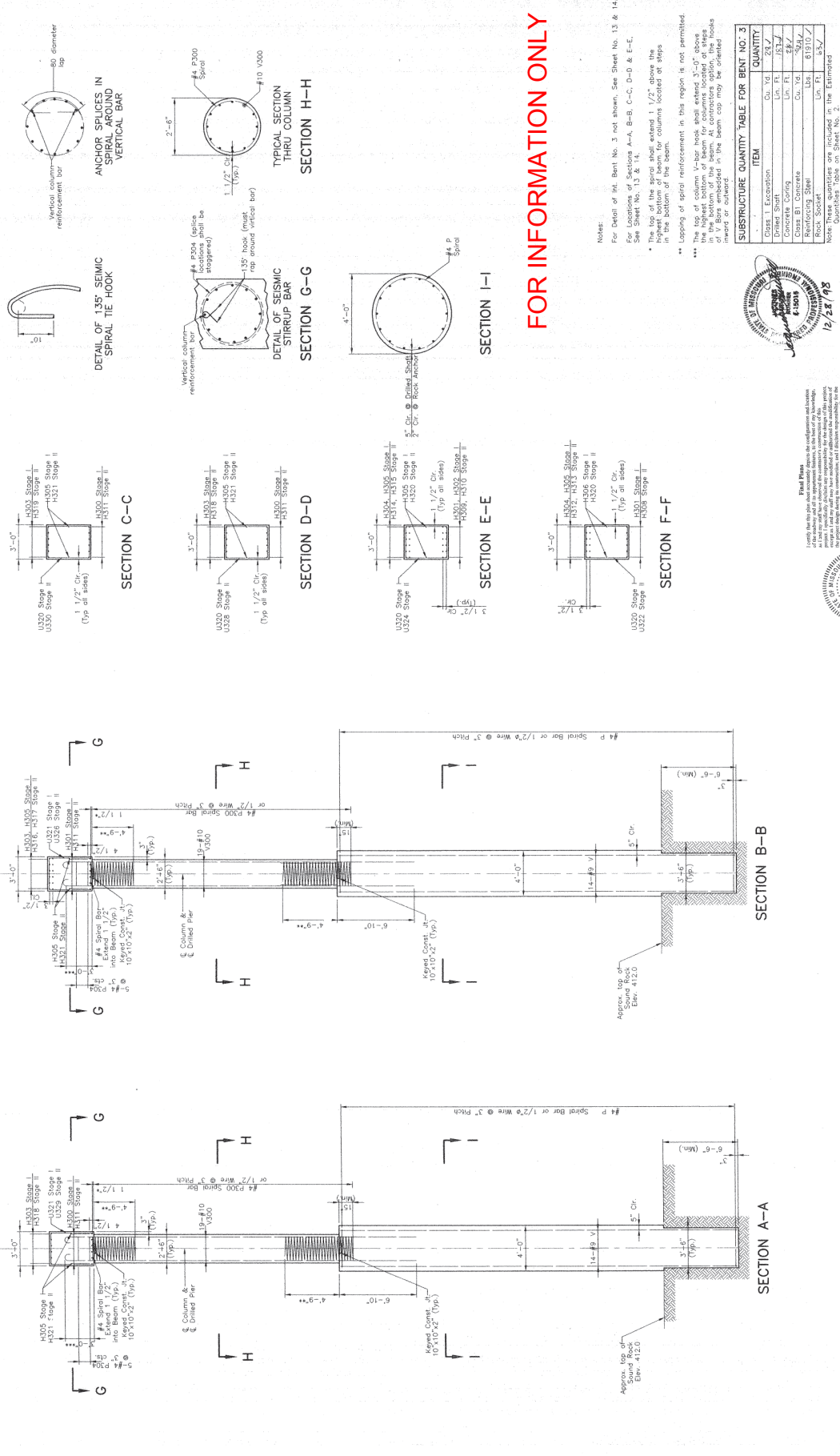
CITY OF ST. LOUIS

A5984

SHEET NO. 13 OF 81

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

FINAL PLANS



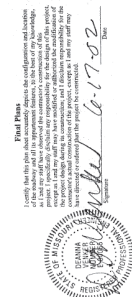
FOR INFORMATION ONLY

Notes:
For Detail of 1st Bent No. 3 not shown, See Sheet No. 13 & 14.
See Sheet No. 13 & 14 for details of sections A-A, B-B, C-C, D-D & E-E.
See Sheet No. 13 & 14 for details of sections F-F, G-G, H-H & I-I.
The top of the spiral shall extend 1 1/2' above the highest bottom of beam for columns located at steps in the bottom of the beam.
** Lapping of spiral reinforcement in this region is not permitted.
*** The top of column V-bar hook shall extend 3'-0" above the highest bottom of beam for columns located at steps in the bottom of the beam. At contractors option, the hooks in all the beams may be lapped in the beam cap may be omitted in the bottom of the beam.
Note: These quantities are included in the Estimated Quantities Table on Sheet No. 2.

SUBSTRUCTURE QUANTITY TABLE FOR BENT NO. 3

ITEM	QUANTITY	UNIT
Concrete	1,131.0	Cu. Yd.
Reinforcing Steel	1,131.0	Lbs.
Formwork	1,131.0	Sq. Yd.
Cast-in-place Concrete	1,131.0	Cu. Yd.
Cast-in-place Reinforcing Steel	1,131.0	Lbs.
Cast-in-place Formwork	1,131.0	Sq. Yd.

BENT #3 DETAILS
CITY OF ST. LOUIS
AS984



DESIGNED BY: Horner & Shiffrin, Inc.
CHECKED BY: JDC
DATE: Dec. 1998
DATE: Dec. 1998
DATE: Dec. 1998

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

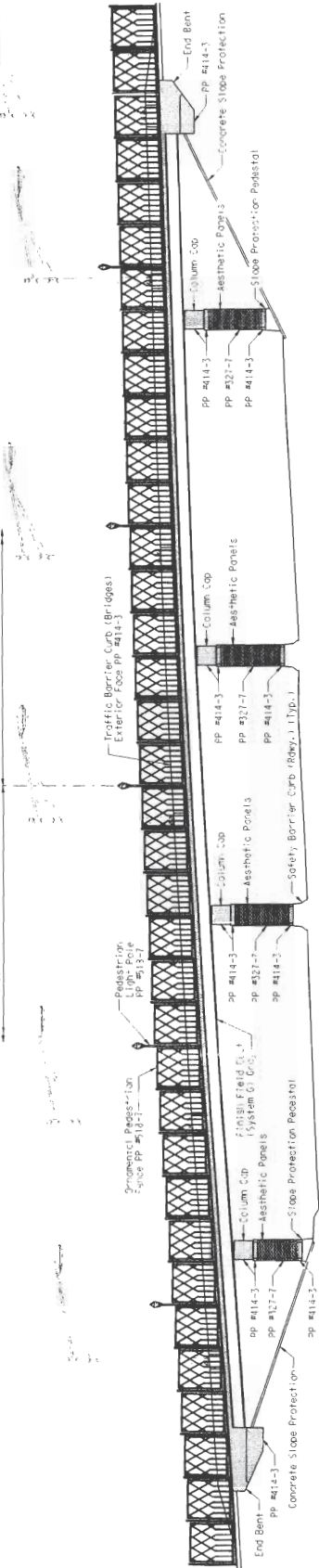
DESIGNED BY: Horner & Shiffrin, Inc.
CHECKED BY: JDC
DATE: Dec. 1998
DATE: Dec. 1998
DATE: Dec. 1998

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

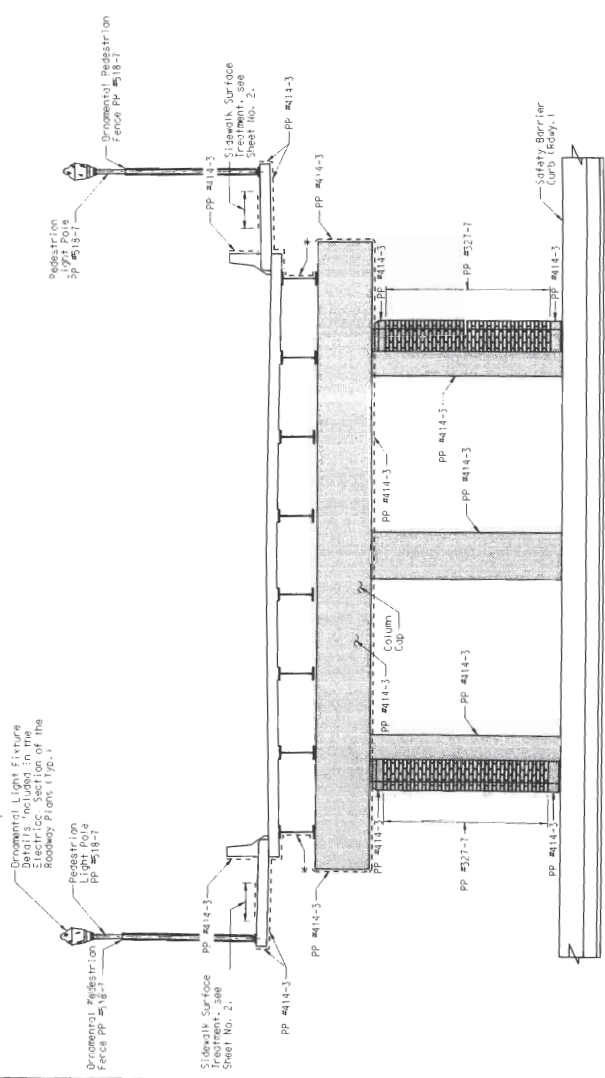
JIF 38.22' - 38' - 18" - 12' - 10.22' Continuous Composite Plate Girder Spans and Add Aesthetic Enhancements

State	Proj. No.	Sheet
MO		806
SEC. 34	TWP. 46N	R0E. 7E

Ornamental Pedestrian Fence - Panel 1, 1", Ornamental Pedestrian Fence - Panel 2, 1", see Sheet No. 4.



ELEVATION



* Finish Field Coat (System G) Tray, Exterior Grinders Only

Note: See attached information only sheets for correct number of columns, stringers, etc.

TYPICAL SECTION THRU BRIDGE
13 Column Bent Shown for Illustration Purposes Only

3/20/2002
2002
2002

HNTB

Note: This drawing is not to scale; follow dimensions.

FOR INFORMATION ONLY

Item	Substr.	Substr.	Total
Aesthetic Panels	600	600	600
Aesthetic Concrete Stain	22.01	22.01	22.01
Ornamental Pedestrian Fence	932	932	932
Sidewalk Surface Treatment	1,950	1,950	1,950
Conduit System on Structure	1	1	1
Finish Field Coat (System G) Gray	5,600	5,600	5,600
Graffiti Protection System	1	1	1

AESTHETIC COLOR CHART

Item	Finish	Painting Points (or Equal 110%)	Painting Points (or Equal 110%)	Painting Points (or Equal 110%)
Bent System	Columns	X	X	X
Structural Elements	End Bents	X	X	X
Traffic Barrier Curb (Bridges)	Exterior Beams	X	X	X
Aesthetic Panels	Top & Bottom Columns	X	X	X
Ornamental Pedestrian Fence	Brick Pattern	X	X	X
Pedestrian Light Poles				

BRIDGE WEST FLORISSANT AVENUE OVER I-70

STATE ROAD FROM KINGSHIGHWAY BLVD TO EAST GRAND BLVD



PROJECT NO.
JOB. NO. J611581

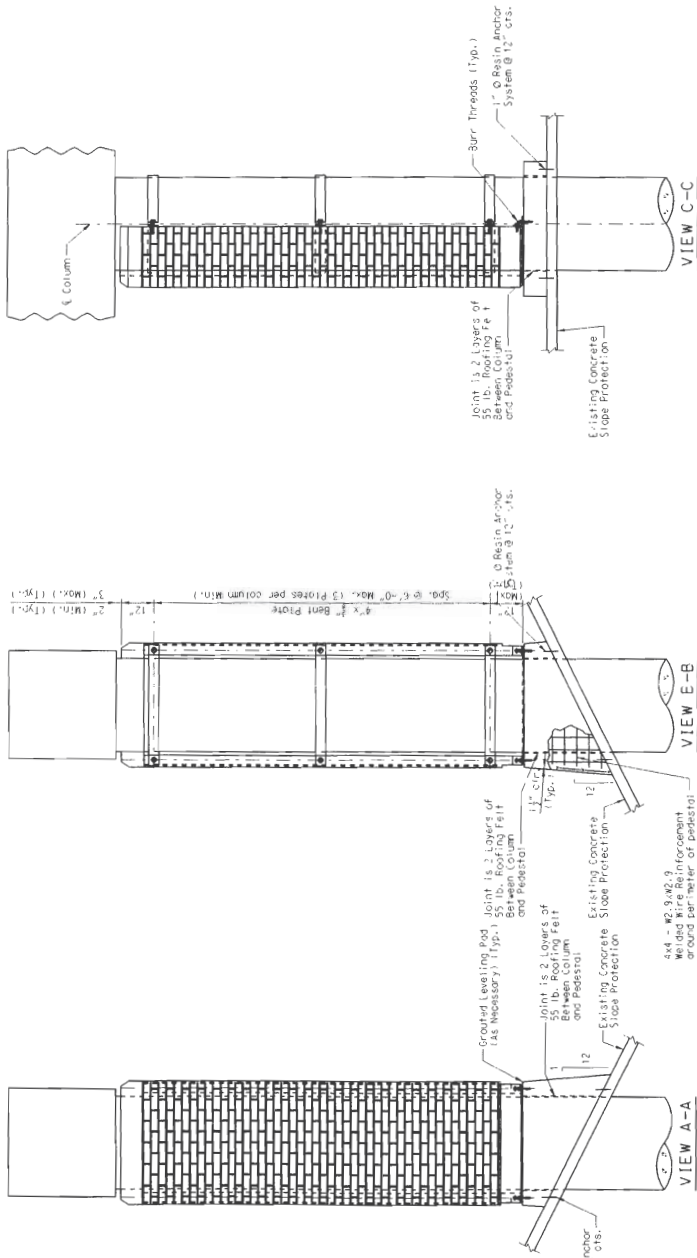
STA. 854-05.09
RFE. 1-70 (EBL & WBL)

CITY OF ST. LOUIS

Sheet No. 8 of 8

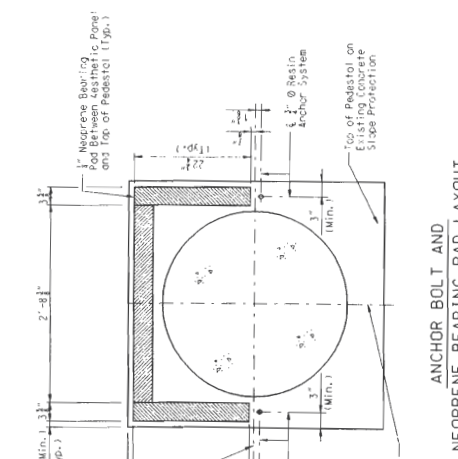
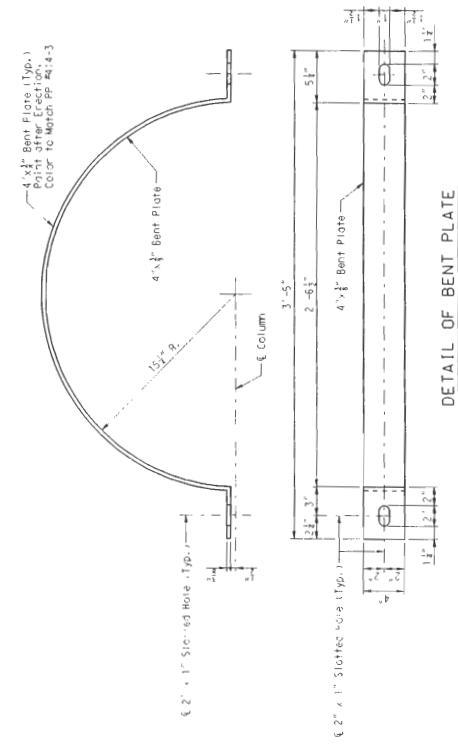
DATE: 03/19/02

A59841



**DETAIL OF RESIN ANCHOR SYSTEM
 IN EXISTING CONCRETE SLOPE PROTECTION**

Notes:
 All concrete used in the pedestal on existing concrete slope protection shall be Class B.
 The fabricated structural steel shall be galvanized in accordance with ASTM A153.
 All bolts, structural washers, 10/8 washers and nuts shall be galvanized in accordance with ASTM A153.
 The material used for the 1" resin anchor system shall meet the requirements of Section 100.3 of the Missouri Standard Specifications for Road and Bridge Construction.
 The material used for the 1" resin anchor system shall be galvanized in accordance with one of the approved systems listed in the special provisions. The 1" threaded rod used in the resin anchor system shall be ASTM A36 and galvanized in accordance with one of the approved systems listed in the special provisions.
 The resin bearing pads shall be 60 diameter neoprene pads. The neoprene pad shall be bonded to the top of the pedestal and to the 4" bent plate with a 1" resin anchor system. The bearing neoprene pad for bonding neoprene to concrete and galvanized steel.
 Payment for furnishing and installing the pedestal on existing concrete slope protection shall include the cost of the pedestal, the resin bearing pads, the resin anchor system, the bent plate, and the 1" resin anchor system.
 The resin bearing pads shall be included in the contract unit price for Aesthetic Panels.
 Aesthetic panels shall be fabricated and erected in accordance with the Special Provisions.
 Aesthetic panels shall be fabricated and erected in accordance with the Special Provisions.



FOR INFORMATION ONLY



**AESTHETIC PANELS
 ON CONCRETE SLOPE PROTECTION**

