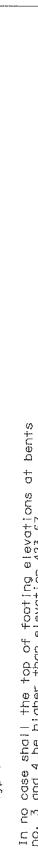


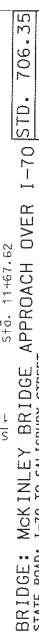
Sheet No.	
Proj. No.	J611376
CONTRACT I.D.	010119-604 1-70-5(282)

CONTRACT I.D. 010119-604
I-70-5(282)



In no case shall the top of footing elevations at bents no. 3 and 4 be higher than elevation 693.77.

DOI: 10.1002/for



STA. 982+63.00	STD. 609.00
PROJECT NO. 00-037	STD. 611.60

Sheet No. 2 of 32

1:\3757677\MS\1376\611376\A6238\611376_plan_...s02_D.dgn 09:47:07 AM 12/30/2005

8-M. #34
"0" open on fireplug at S.W. corner of Broadway
5' +/- S.E. of traffic signal control box "755" bk. pg. 64 Elev 457.02
"U" on stone curb on S.W. side of intersection of Salisbury and 11th St.

[illegible]

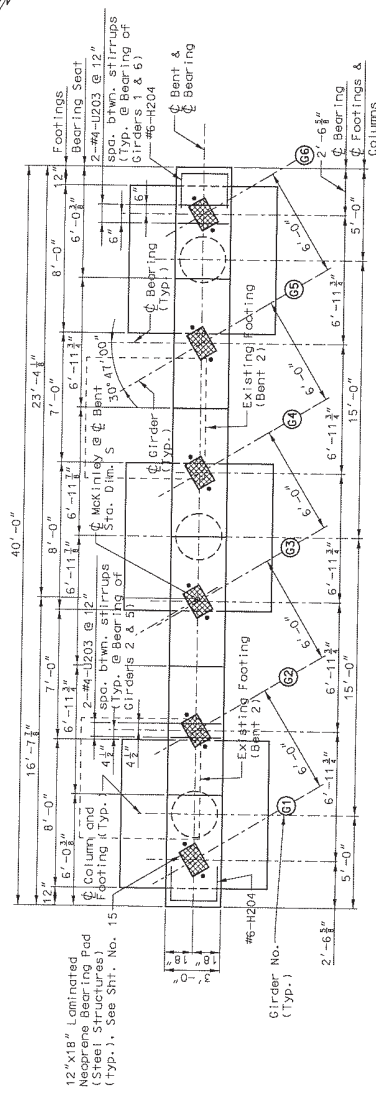
signed: KCK

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

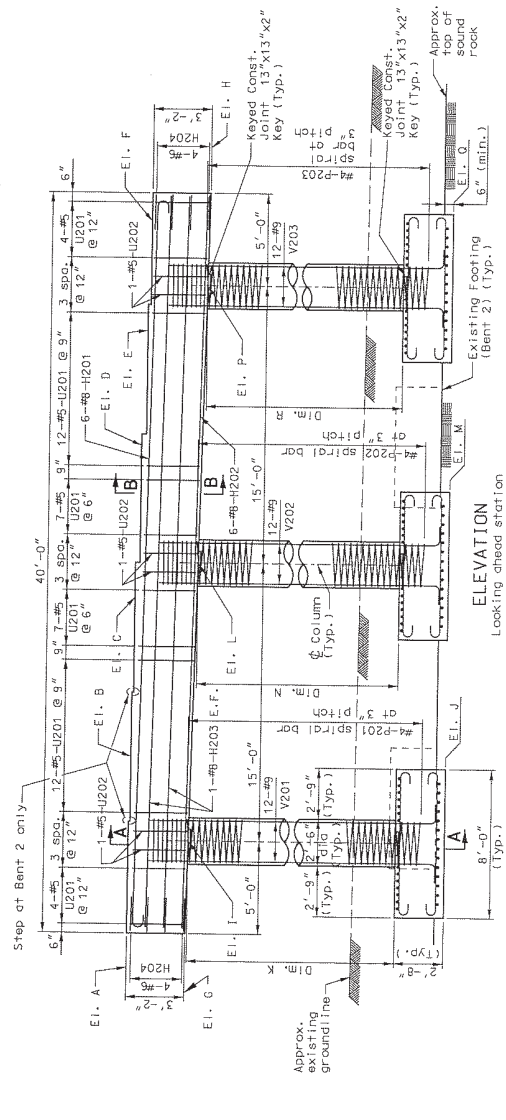
FINAL PLANS	State	Proj. No.	Sheet No.
MO	681376	1-70-5282	1-70-5282

NOTES:

Bar Callouts shown on this sheet are for Bent 2.
For Bents 3 thru 5 use series 300, 400, or 500.
For General Plan and Elevation, See Sheet No. 2.
For Column And Footing details, See Sheet No. 10.
All reinforcing bars in the top of substructure beam cap shall be spaced to clear anchor bolt wells by at least 1/2".
For details is and layout of Anchor Bolt Wells, See Sheet No. 10.
For Cross Sections A-A, and B-B, See Sheet No. 10.
All concrete shall be Class B with $f_c' = 3000$ psi.



PLAN



ELEVATION
Looking ahead station

BEAM CAP DIMENSIONS											
Beam Step Elevations											
Bent 2	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G	Dim. H	Dim. I	Dim. J	Dim. K
Bent 2	442.23	442.14	442.05	441.80	441.38	439.06	438.22	439.17	439.17	439.17	439.17
Bent 3	445.65	445.65	445.65	445.46	445.25	442.48	442.42	442.42	442.42	442.42	442.42
Bent 4	447.25	447.25	447.25	447.06	446.86	444.08	444.02	444.02	444.02	444.02	444.02
Bent 5	449.51	449.51	449.51	449.33	449.13	446.34	446.28	446.28	446.28	446.28	446.28

LEFT COLUMN DIMENSIONS	
Dim. I	Dim. J
Bent 2	439.04
Bent 3	442.42
Bent 4	446.28
Bent 5	449.51

CENTER COLUMN DIMENSIONS	
Dim. L	Dim. M
Bent 2	438.64
Bent 3	442.22
Bent 4	446.10
Bent 5	449.51

RIGHT COLUMN DIMENSIONS	
Dim. P	Dim. Q
Bent 2	438.32
Bent 3	442.50
Bent 4	446.10
Bent 5	449.51

SUBSTRUCTURE QUANTITY TABLE BENT 2, 3, 4, & 5				
Item	Quantity	Bent 2	Bent 3	Bent 4
Class 1 Excavation cu. yard	70	74.4	44	67.5
Class 1 Excavation in Rock cu. yard	20.5	3.2	5.5	4.7
Class B Concrete (Substructure) cu. yard	42.3	43.8	44.1	45.0
Reinforcing Steel (Bridges) pounds	7300	7750	7860	8180

FOR INFORMATION ONLY

McKINLEY BRIDGE APPROACH OVER I-70
INTERMEDIATE BENTS 2 THRU 5
PLAN AND ELEVATION

A6238

NOTE: DO NOT SCALE THIS DRAWING FOLLOW DIMENSIONS

Designed: GGG
Detailed: GGG
Checked: KCK

HORNER & SIEREN, INC.
1000 West 10th Street, Suite 100
St. Louis, Missouri 63102

Sheet No. 9 of 32

PROJECT: 6767651376\681376\A6238\681376.dgn 09:46:23 AM 12/30/2005

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

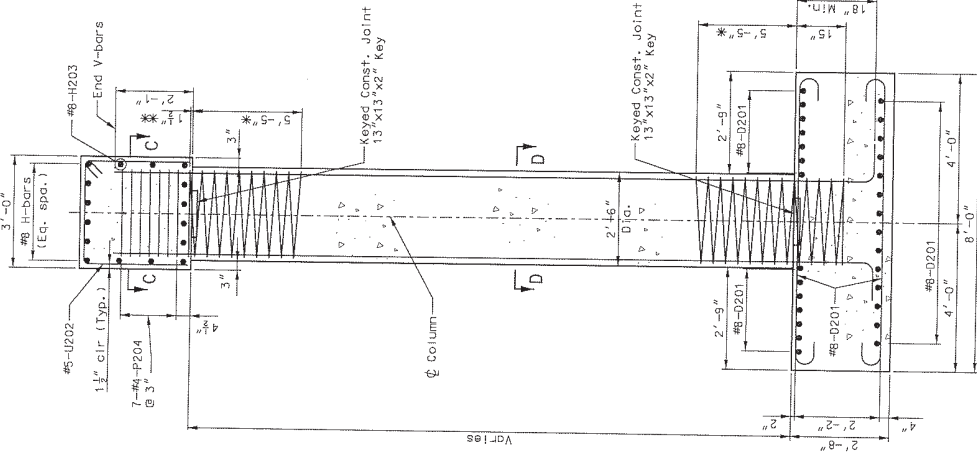
Project No.	State	Sheet No.
J61376	MO	
CONTRACT NO. 0019-604		
1-70-50282		

NOTES:

Bar callouts shown on this sheet are for Bent 2. For Bents 3 thru 5 use series 300, 400, or 500. For Plan and Elevation of Intermediate Bents, see Sheet No. 9.

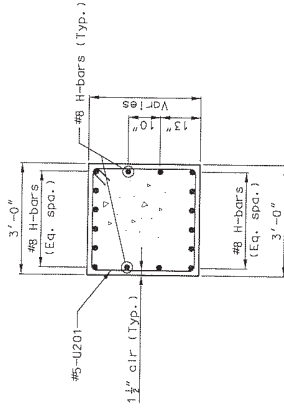
* - Lapping of spiral reinforcement in this region is not permitted.

** - The top of spiral shall extend $1\frac{1}{2}$ " above the column connection into the beam cap.

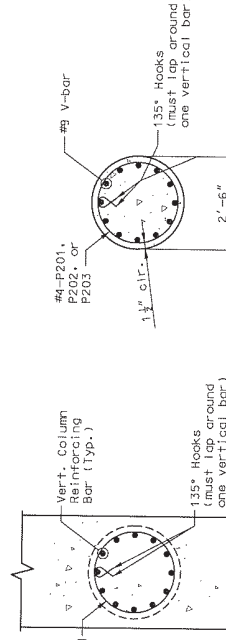


SECTION A-A

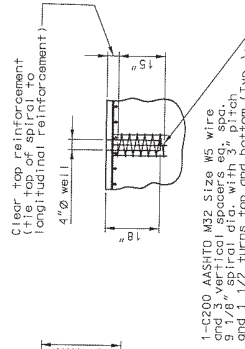
SECTION B-B



SECTION D-D



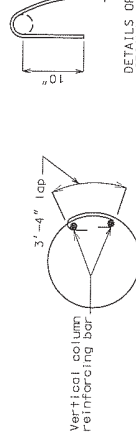
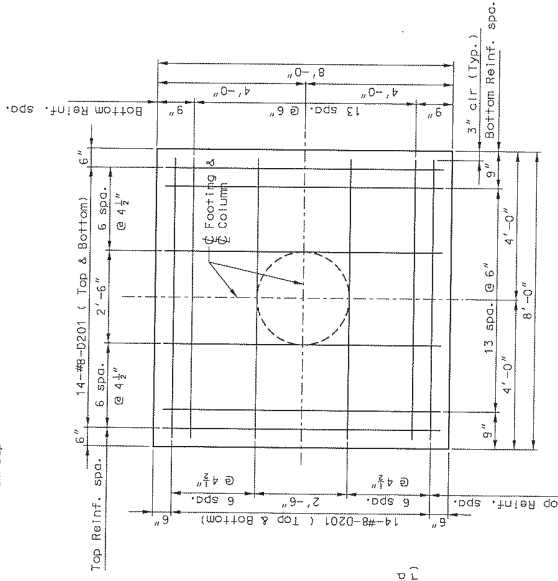
SECTION C-C
DETAIL OF SEISMIC STIRRUP BAR



DETAIL OF ANCHOR BOLT WELLS

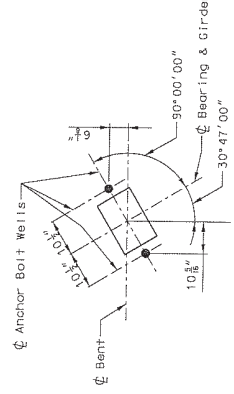
Note: Shift reinforcing as needed to clear anchor bolt well by $1\frac{1}{2}$ " (min.)

FOOTING PLAN



ANCHOR SPLICES IN SPIRAL AROUND VERTICAL BAR (USE FOR INTERMEDIATE SPLICES OF SPIRALS)

ANCHOR BOLT LOCATION PLAN



FOR INFORMATION ONLY

McKINLEY BRIDGE APPROACH OVER I-70
INTERMEDIATE BENTS 2 THRU 5
DETAILS

A6238

CITY OF ST. LOUIS, MO

Sheet No. 10 of 32

NOTE: DO NOT SCALE THIS DRAWING FOLLOW DIMENSIONS

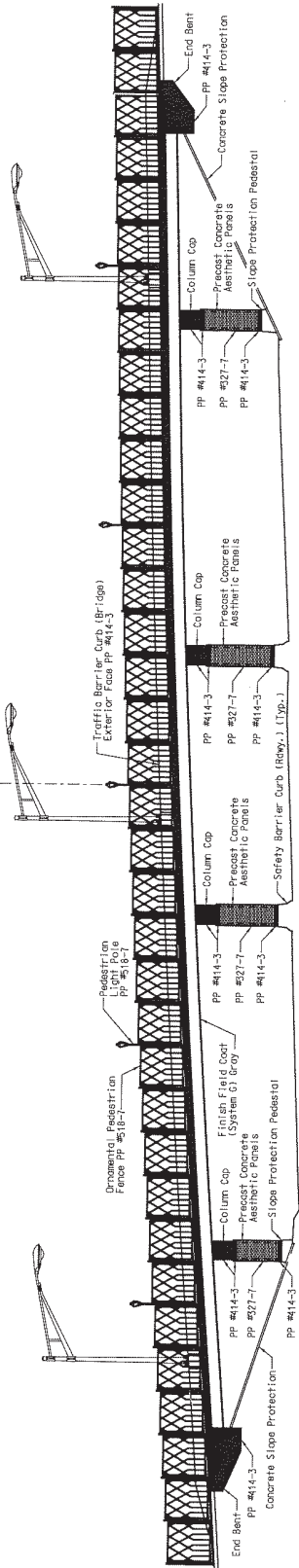
Designed: GGG
Detailed: GGG
Checked: KKK

HORNER & SHIFRIN, INC.
ENGINEERS & ARCHITECTS
ST. LOUIS, MISSOURI

J:\13757677\NUS\1376\181376\A6238\B01376_bentdet_110.dgn 08:45:31 AM 12/30/2005

FINAL PLANS
JOB NO. J611376
CONTRACT I.D. 010119-604

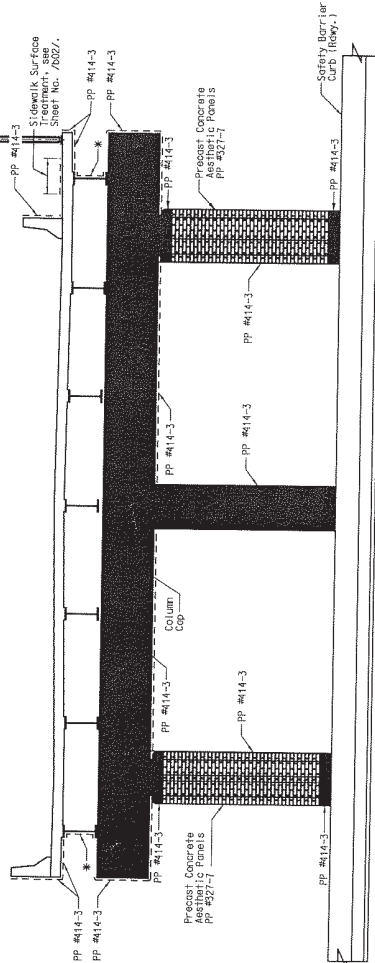
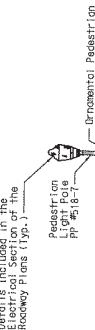
Ornamental Pedestrian Fence - Panel "A",
see Sheet No. 7004/.



TYPICAL BRIDGE ELEVATION

(3) Span Bridge Shown for Illustration Purposes Only)

Ornamental Light Fixture
Details Included in the
Illustration of the
Rococo Plans (Typ. 1)



* Finish Field Coat (System G) Gray, Exterior Orders Only

TYPICAL SECTION THRU BRIDGE

(3) Column Bent Shown for Illustration Purposes Only)



Checked JUN 2003
Detailed JUN 2003

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

Sheet No. 01 of 09

CITY OF ST. LOUIS

A6238

FINAL QUANTITIES

Line	Substr.	Superstr.	Total
Line #031, Intermediate Field Coat (System G) Gray	sq. foot		12,100
Line #032, Finish Field Coat (System G) Gray	sq. foot		3,600
Line #060, Aesthetic Concrete Face Panels	sq. foot		738
Line #061, Masonry Aesthetic Concrete Siding	sq. foot		6,770
Line #062, Misc. Ornamental Pedestrian Fencing	lin. foot		337
Line #063, Misc. Masonry Sillwork Surface Treatment	sq. foot		745
Line #064, Conduit System on Structure	linear yard		0
Line #065, Graffiti Protection System	lin. foot		1
Line #125, Conduit System on Structure	lin. foot		1

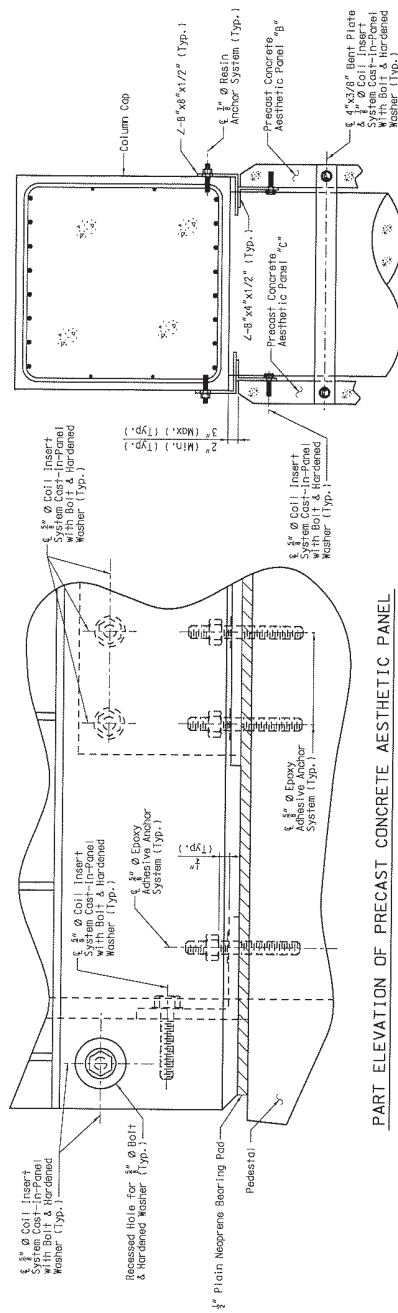
AESTHETIC COLOR CHART

Bent System	Pittsburg Points Color #414-3 or Equiv. (Tan)	Finished Field Coat (System G) Gray	Pittsburg Points Color #027-7 (Burled Redwood)	Pittsburg Points Color #018-7 (Black Maple)
Column Cap	X			
Columns	X			
End Bents	X			
Exterior Beams		X		
Traffic Barrier Curb (Bridges)	X			
Precast Concrete Aesthetic Panels	X			
Top & Bottom Collars			X	
Brick Pattern				X
Ornamental Pedestrian Fence				X
Pedestrian Light Poles				X

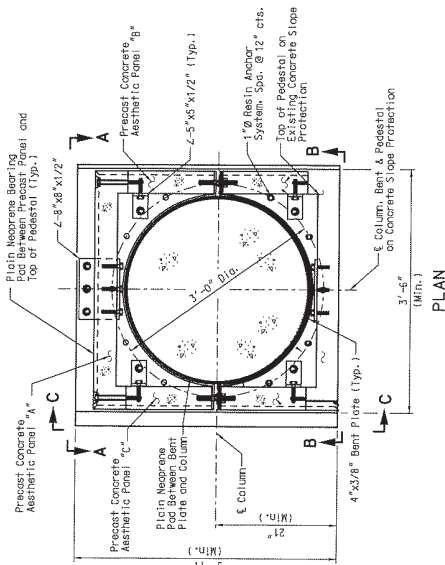
FOR INFORMATION ONLY

QUANTITIES & AESTHETIC COLOR SCHEME

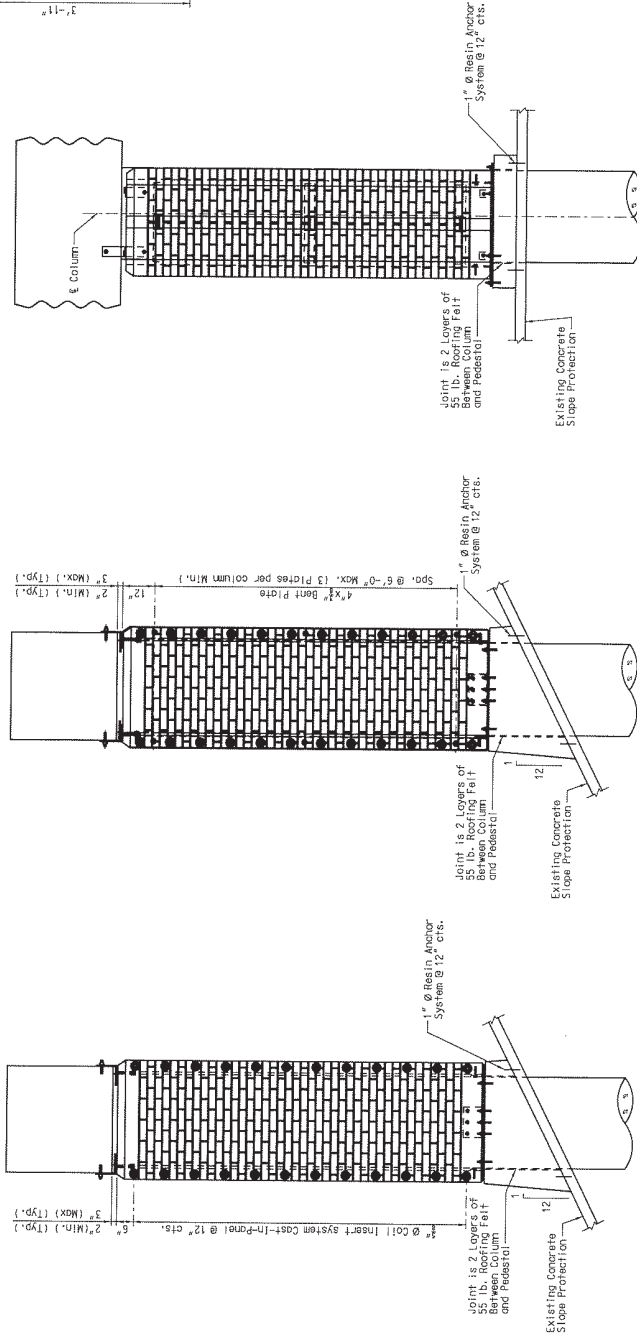
DETAIL OF RESIN ANCHOR SYSTEM IN EXISTING CONCRETE SLOPE PROTECTION



PART ELEVATION OF PRECAST CONCRETE AESTHETIC PANEL
NEAR PEDESTAL



PART ELEVATION NEAR COLUMN CAP



Notes:

- All concrete used in the pedestal on existing concrete slope protection shall be Class B.
- All fabricated structural steel shall be ASTM A109 Grade A36 except for the pedestal. The fabricated structural steel shall be galvanized in accordance with ASTM A123.
- All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with ASTM A153.
- The material required for the fabricated structural steel shall meet the requirements of Section 105.3 of the Missouri Standard Specifications.
- The pedestal and the slope protection shall be constructed in accordance with the details and the specifications listed in the special provisions. The $\frac{1}{2}$ " and $\frac{3}{4}$ " galvanized steel reinforcement shall be used for the resin anchor systems shall be ASTM A36 and galvanized in accordance with ASTM A153.
- Plain rebar bearing rods shall be 60 diameter neoprene pipes. Neoprene pad shall be bonded to the top of the pedestal to the 4"x12" bearing rods.
- Payment for furnishing and installing the pedestal on existing concrete slope protection shall include the pedestal, resin anchor systems, epoxy coated units bars and plain galvanized structural steel. The pedestal shall be constructed in accordance with the details of Fabricated Structural Steel and the details of Precast Concrete Asbestos Panels.

Sheet No. 709/87

FOR INFORMATION ONLY

PRECAST CONCRETE AESTHETIC PANELS ON CONCRETE SLOPE PROTECTION

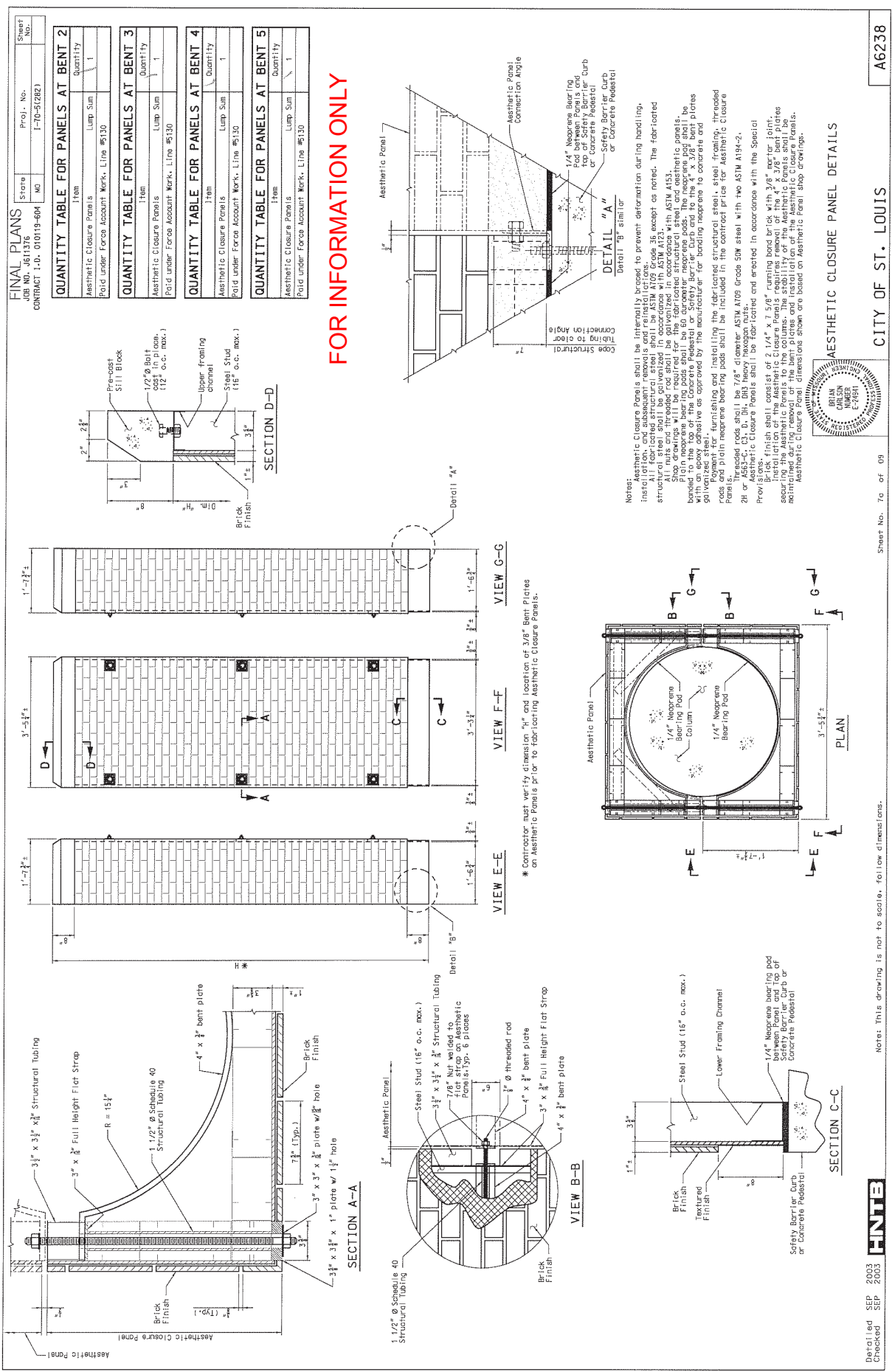
Note: This drawing is not to scale, follow dimensions.

Detailed	JUN 2003	HNTB
Checked	JUN 2003	

Sheet No. 06 of 09

CITY OF ST. LOUIS

A6238



FINAL PLANS

JOB NO. 0611376	Store	Proj. No.	Sheet No.
CONTRACT 1-D, 10119-604	MO	1-70-52821	

QUANTITY TABLE FOR PANELS AT BENT 2

Item	Quantity
Aesthetic Closure Panels	1
Paid Under Force Account Work, Line #5130	

QUANTITY TABLE FOR PANELS AT BENT 3

Item	Quantity
Aesthetic Closure Panels	1
Paid Under Force Account Work, Line #5130	

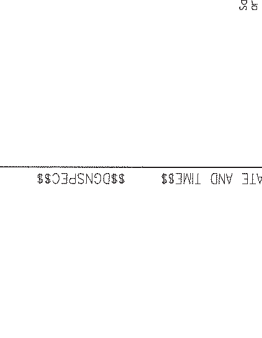
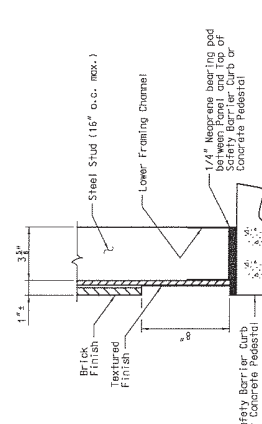
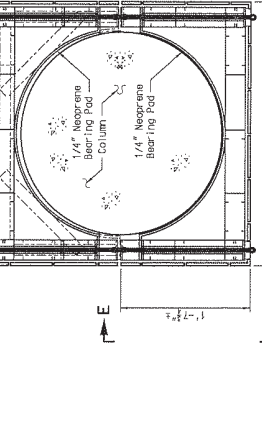
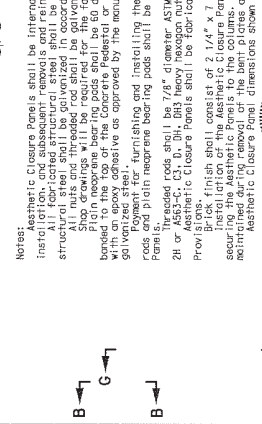
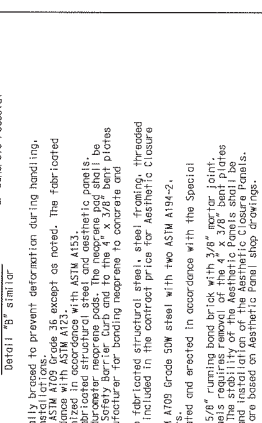
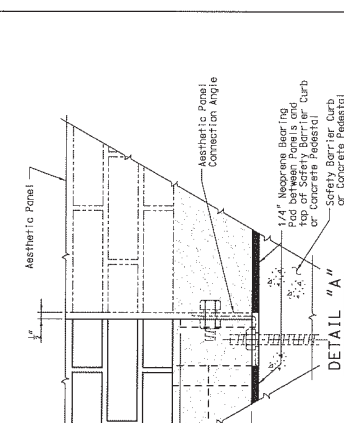
QUANTITY TABLE FOR PANELS AT BENT 4

Item	Quantity
Aesthetic Closure Panels	1
Paid Under Force Account Work, Line #5130	

QUANTITY TABLE FOR PANELS AT BENT 5

Item	Quantity
Aesthetic Closure Panels	1
Paid Under Force Account Work, Line #5130	

FOR INFORMATION ONLY



NOTES:

Aesthetic Closure Panels shall be internally braced to prevent deformation during handling, installation and erection. All fabricated structural steel shall be in accordance with ASTM A109 Grade 36, except as noted. The fabricated structural steel shall be galvanized in accordance with ASTM A1029. All nuts and threaded rods shall be in accordance with ASTM A193. Shop drawings will be required for the fabricated structural steel and aesthetic panels. The neoprene pad shall be bonded to the top of the Concrete Pedestal or Safety Barrier Curb. Payment for furnishing and installing the fabricated structural steel, steel framing, threaded rods and plate neoprene bearing pads shall be included in the contract price for Aesthetic Closure Panels. Threaded rods shall be 7/8" diameter ASTM A193 Grade 50W steel with two ASTM A194-2, 2H or A563-C, C3, D, 3H, 8H, 8H heavy hexagon nuts. Aesthetic Closure Panels shall be fabricated and erected in accordance with the Special Provisions. Brick finish shall consist of 2 1/4" x 7 5/8" running bond brick with 3/8" mortar joint. The aesthetic closure panels shall be secured to the columns. The stability of the Aesthetic Closure Panels shall be maintained during removal of the bent plates and installation of the Aesthetic Closure Panels. Aesthetic Closure Panels shall be fabricated and erected in accordance with the Special Provisions.

ASTHETIC CLOSURE PANEL DETAILS

CITY OF ST. LOUIS

A6238

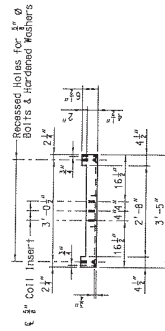
Sheet No. 70 of 09

Note: This drawing is not to scale. Follow dimensions.

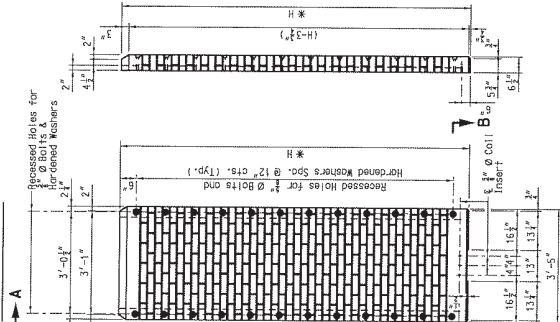
HNTB

Detailed SEP 2003
Checked SEP 2003

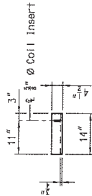
USER: \$USER\$38
PLOTED: \$DATE AND TIME\$
\$SDGN\$PEC\$3



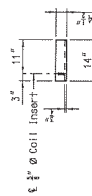
SECTION A-A



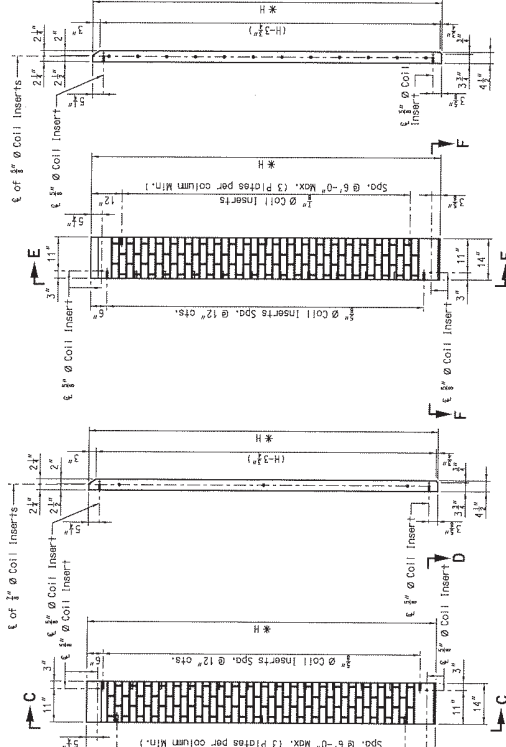
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

FINAL PLANS
JOB NO. J611376
CONTRACT I.D. 00119-604

Store	Proj. No.	Sheet No.
MD	1-70-51282	

QUANTITY TABLE FOR PANELS AT BENT 2

Item	sq. foot	Quantity
Precast Concrete Aesthetic Panels		132.46

Note: These quantities are included in the Estimated Quantities table on Sheet No. /001/.

QUANTITY TABLE FOR PANELS AT BENT 3

Item	sq. foot	Quantity
Precast Concrete Aesthetic Panels		193.92

Note: These quantities are included in the Estimated Quantities table on Sheet No. /001/.

QUANTITY TABLE FOR PANELS AT BENT 4

Item	sq. foot	Quantity
Precast Concrete Aesthetic Panels		194.19

Note: These quantities are included in the Estimated Quantities table on Sheet No. /001/.

QUANTITY TABLE FOR PANELS AT BENT 5

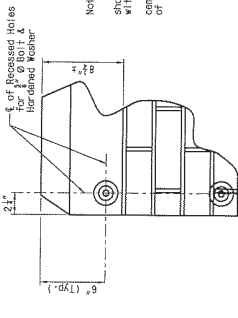
Item	sq. foot	Quantity
Precast Concrete Aesthetic Panels		241.55

Note: These quantities are included in the Estimated Quantities table on Sheet No. /001/.

PLAN OF PRECAST PANEL "A" VIEW A-A PLAN OF PRECAST PANEL "B" VIEW B-B PLAN OF PRECAST PANEL "C" VIEW C-C PLAN OF PRECAST PANEL "D" VIEW D-D PLAN OF PRECAST PANEL "E" VIEW E-E

* Contractor must verify dimension "H" prior to ordering Precast Concrete Aesthetic Panels

Note: Brick pattern formed into the precast panel shall consist of 2 1/2" x 7 1/2" running bond brick. Rebar shall be filled with a non-shrink cementitious grout and finished flush with the surface of the precast panel prior to applying Aesthetic Stain.



PART PLAN OF PRECAST CONCRETE AESTHETIC PANEL (Top of panel shown, bottom similar)

FOR INFORMATION ONLY

PRECAST CONCRETE AESTHETIC PANEL DETAILS