

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1832	SBR-2	WASHINGTON	97	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				CONSTRUCTION			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	SN 095-0077		SN 095-0078	
				I000-2A FED 80% STATE 20%	X071-2A FED 80% STATE 20%	I000-2A FED 80% STATE 20%	X080-2A FED 80% STATE 20%
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	2	1		1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1		1	
70106700	TEMPORARY RUMBLE STRIP	EACH	12	6		6	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	9	4.5		4.5	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10286	5276		5010	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3520	1820		1700	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	154	60		94	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3737	1879		1858	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1840		910		930
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1680		910		770
* 72000100	SIGN PANEL - TYPE 1	SQ FT	20	10		10	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	48	24		24	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5825	2694		3131	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	38			38	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	279		279		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	31	15		16	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2		2		
78200200	BIDIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	4		2		2
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	18	9		9	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	4		4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1939	990		949	
X0321100	GEOTEXTILE RETAINING WALL	SQ FT	171.9			171.9	
X0323330	PRECAST CONCRETE SUBSTRUCTURE	L SUM	1			1	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	808.4		364.3		444.1
X7200200	WIDE LOAD SIGNING	L SUM	1	0.5		0.5	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4		2		2
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3		2		1
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	3		2		1
X0325916	THREE-SIDED PRECAST CONCRETE STRUCTURE 28' X 9'	FOOT	37.25				37.25
* E0007600	TRAINEES	HOURL	500	500			

PLOT DATE = 11/30/2007
 FILE NAME = c:\pro\pca\ad9185\plan\plan185a.dgn
 PLOT SCALE = 50.0000 / 1"
 REFERENCE = #REF#

© Y080 * SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
F.A.S. 1832	5BR-2	WASHINGTON	97	72	12 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT-		

Contract #76949

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
The option of using a precast footing is not allowed.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
After the keyways have been grouted and cured, the joints on the three sides of the structure shall be externally sealed using 13" wide external sealing bands conforming to Article 1057.01. Cost included with Three-Sided Precast Concrete Structures.

The footing design is based on the following maximum reactions applied at the top of the footing:

Vertical 15.4 k/ft
Horizontal 6.3 k/ft

The contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete footing design with calculations, details, signed and sealed by an Illinois Licensed Structural Engineer shall be submitted for review and approval.

All construction joints shall be bonded.
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

Dimensions for the Three-Sided Precast are for a Con Span section. Hy-Span, REDI-SPAN Bridge System and BEBO-Arch System are also acceptable, but dimensions may vary.

It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Concrete Structures".

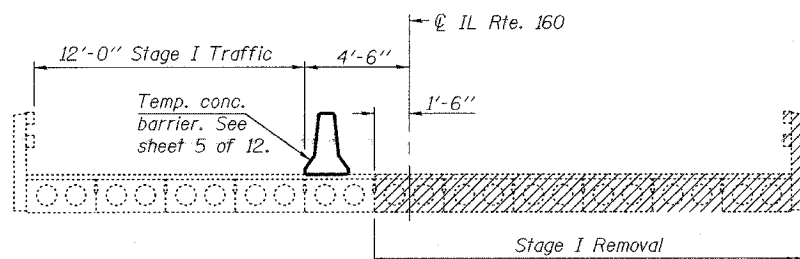
Structural Seal does not include design of Precast elements.
For backfilling and embankment, see Standard Specifications.
All exposed edges shall be chamfered 3/4".
Allowable Bearing Pressure for Footing = 4 ksf.

TOTAL BILL OF MATERIAL

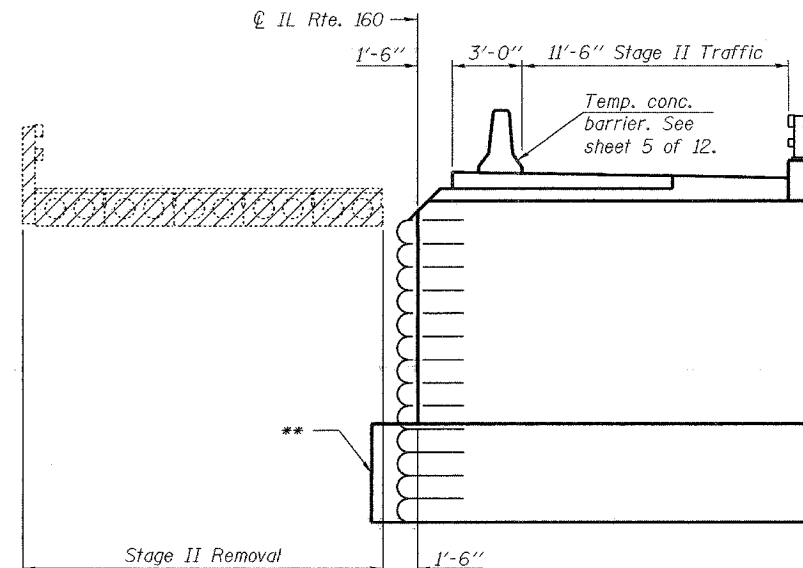
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 2	Each			1
Name Plates	Each	1		1
Stone Riprap, Class A5	Sq. Yd.			340
Filter Fabric	Sq. Yd.			340
Concrete Structures	Cu. Yd.		145.0	145.0
Reinforcement Bars, Epoxy Coated	Pound		6590	6590
Bar Splicers	Each		28	28
Structure Excavation	Cu. Yd.		365	365
Three Sided Precast Concrete Structure, 28' x 9'	Foot	37.25		37.25
Temporary Soil Retention System	Sq. Ft.			444.1
Steel Rail, Type 2399	Foot	64		64
Geotextile Retaining Wall	Sq. Ft.			1763
Precast Concrete Substructure	L. Sum		1	1
Concrete Sealer	Sq. Ft.	144		144

STAGE CONSTRUCTION DETAILS
F.A.S. RTE. 1832 - SEC. 5BR-2
WASHINGTON COUNTY
STATION 1511+01.00
STRUCTURE NO. 095-0078

Rev. 2-19-08

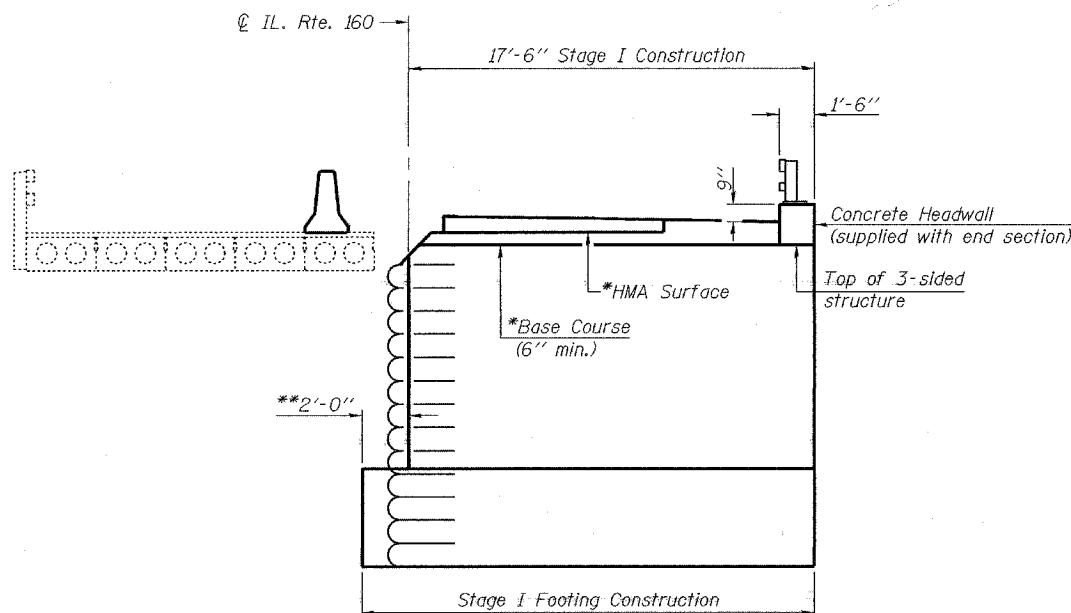


STAGE I REMOVAL



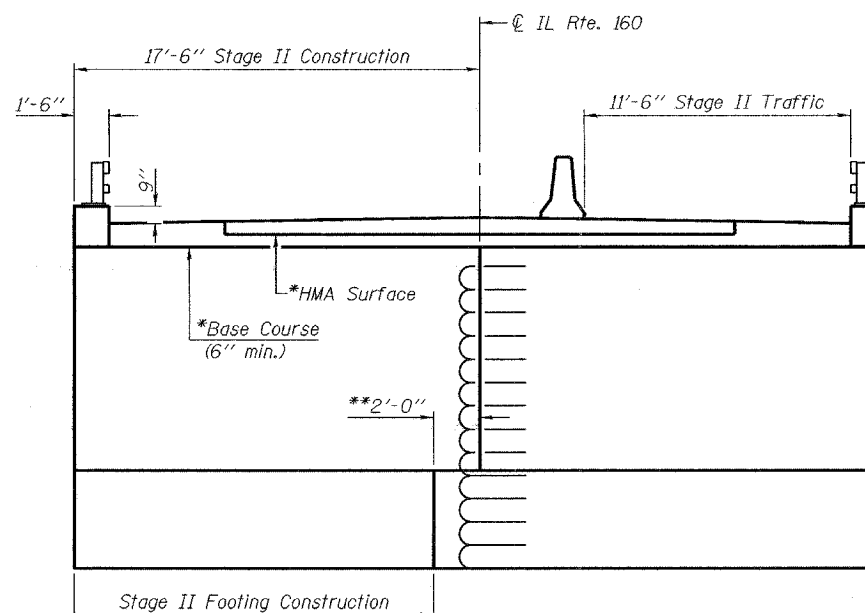
STAGE II REMOVAL

(Looking East at New West footing at Rt. L to Footing)



STAGE I CONSTRUCTION

(Looking East at New West footing at Rt. L to Footing)



STAGE II CONSTRUCTION

(Looking East at New West footing at Rt. L to Footing)

*For quantities of HMA Surface and Base Course, see Roadway Plans.
**Stage I west footing to be constructed 2'-0" @ Rt. L to CL IL Rte. 160 into Stage II Construction.

Note: For quantity of Temporary Concrete Barrier, see Roadway Plans.

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	Gregory D. Farmer
CHECKED	NRB/GRA

EXAMINED	January 28 2008
PASSED	Thomas J. Demagalaki Ralph E. Anderson