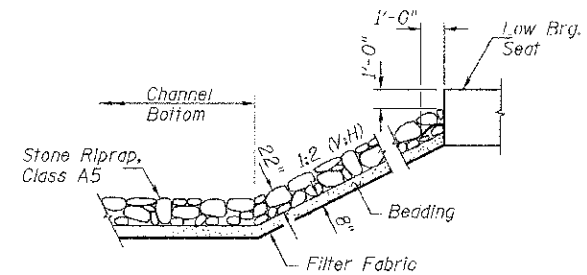
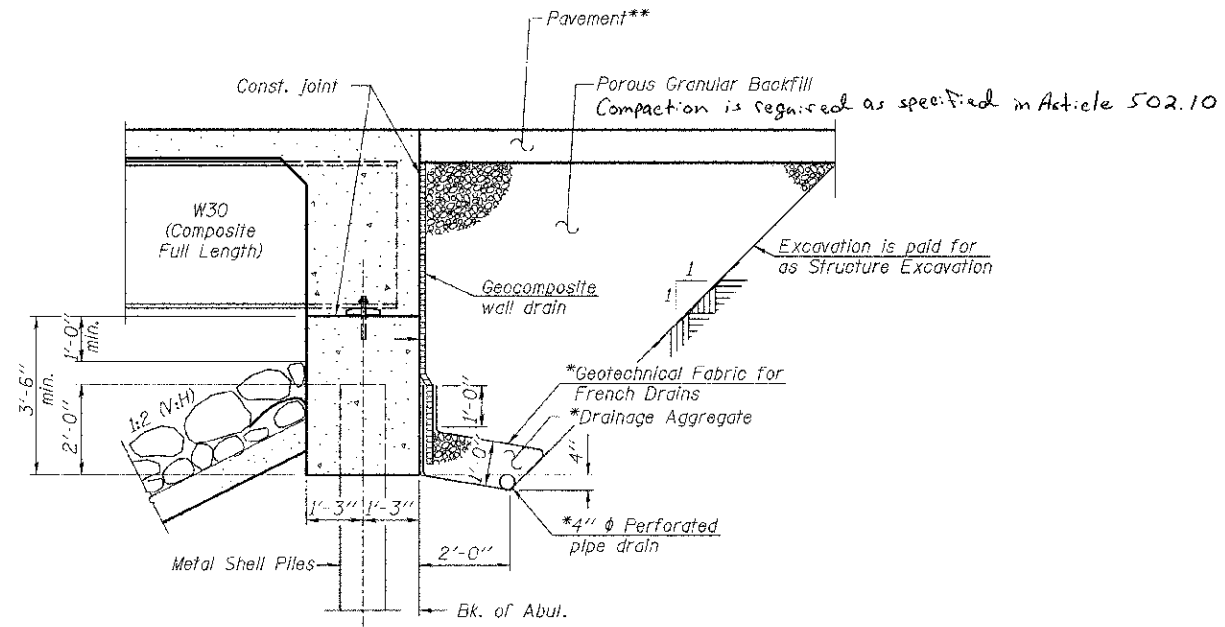
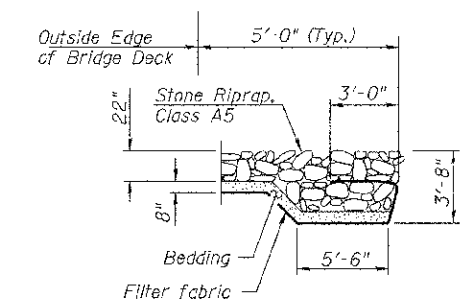


** Pavement Structure over Porous Granular Backfill/
Structure Excavation Area shall consist of 10" HMA
consisting of 2" Surface and 8" Binder.



STONE RIPRAP DETAIL



SECTION A-A

*Included in the cost of Pipe Underdrains for Structures.
Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110.)

SECTION THRU INTEGRAL ABUTMENTS

GENERAL NOTES

All structural steel shall be AASHTO M 270 Grade 50W.
Calculated weight of Structural Steel = 44,710 lbs, Grade 50W.
Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts 3/4 in. ϕ , holes 15/16 in. ϕ , unless otherwise noted.
No field welding is permitted except as specified in the contract documents.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
Reinforcement bars designated (E) shall be epoxy coated.
Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
Protective coat shall be applied to the top and sides of the deck.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
① Removal of Existing Structures	EACH	—	—	1
Structure Excavation	CU YD	—	150	150
Channel Excavation	CU YD	—	530	530
Concrete Superstructure	CU YD	71.9	—	71.9
Concrete Structures	CU YD	—	25.4	25.4
Furnishing Metal Shell Piles 12"x0.250"	FOOT	—	360	360
Driving Piles	FOOT	—	360	360
Test Pile Metal Shells	EACH	—	1	1
Concrete Encasement	CU YD	—	4.6	4.6
Furnishing and Erecting Structural Steel	L SUM	1	—	1
Anchor Bolts, 1"	EACH	—	20	20
Reinforcement Bars, Epoxy Coated	POUND	15,750	3,480	19,230
Stone Riprap, Class A5	TON	—	425	425
Filter Fabric	SQ YD	—	365	365
Steel Bridge Rail, Type SM (Special)	FOOT	134	—	134
Protective Coat	SQ YD	245	—	245
Bridge Deck Grooving	SQ YD	209	—	209
Stud Shear Connectors	EACH	885	—	885
Name Plates	EACH	—	1	1
① Porous Granular Backfill	CU YD	—	100	100
① Pipe Underdrains For Structures 4"	FOOT	—	119	119
Geocomposite Wall Drain	SQ YD	—	57	57
Pile Shoes	EACH	—	10	10

① See Special Provisions

GENERAL NOTES & BILL OF MATERIAL
COUNTY HIGHWAY 9 OVER
LOUIS CREEK TRIBUTARY
SEC. 08-00130-02-BR
IROQUOIS COUNTY
STATION 214+96.00

SHEET NO. 2 15 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	334	08-00130-02-BR	IROQUOIS	27	8
SN 038-3014			CONTRACT NO. 87524		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0344(113)		