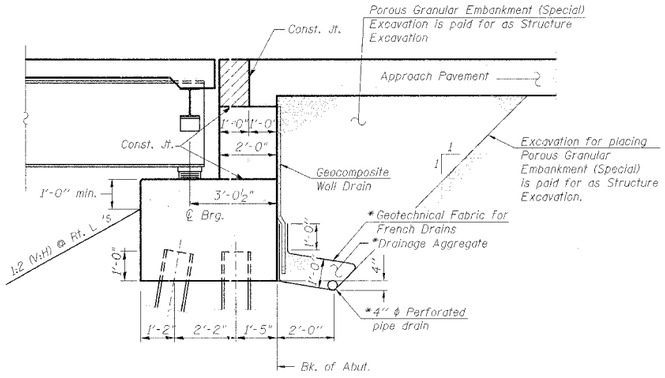
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2666	00-00254-01-BR	LAKE	70	25
STA. 98+50	TO STA. 107+57			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Sheet 2 of 35 Sheets
PROJECT NO. BHM-8003(213)
CONTRACT NO. 83875

GENERAL NOTES

1. Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$" dia., open holes $\frac{15}{16}$" dia., unless otherwise noted.
2. Calculated weight of Structural Steel = 246.260 lbs. (AASHTO M270 Grade 50)
3. Field welding of construction accessories will not be permitted to beams or girders.
4. Anchor bolts shall be set before bolting diaphragms over supports.
5. The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
6. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.
7. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
8. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
9. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
10. Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
11. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{2}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. (For Type I and Type II Elastomeric Bearings, two $\frac{1}{8}$" adjusting shims shall be provided for each bearing and placed as detailed).
12. The contractor shall drive one 12" concrete filled metal shell test pile in a permanent location at each abutment and at each pier (total of 4 test piles) as directed by the Engineer before ordering the remainder of piles.
13. The concrete for bridge floors finished according to Article 503.17 of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.
14. Bridge Seat Sealer shall be applied to the seat area of the abutments and piers.
15. All construction joints shall be bonded.
16. The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new structural steel except where noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final coat for exterior and bottom flange of the facia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See special provisions for "Cleaning and Painting New Metal Structures."



SECTION THRU PILE BENT ABUTMENT

(Horiz. dim. ℄ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

Note:
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

WATERWAY INFORMATION TABLE

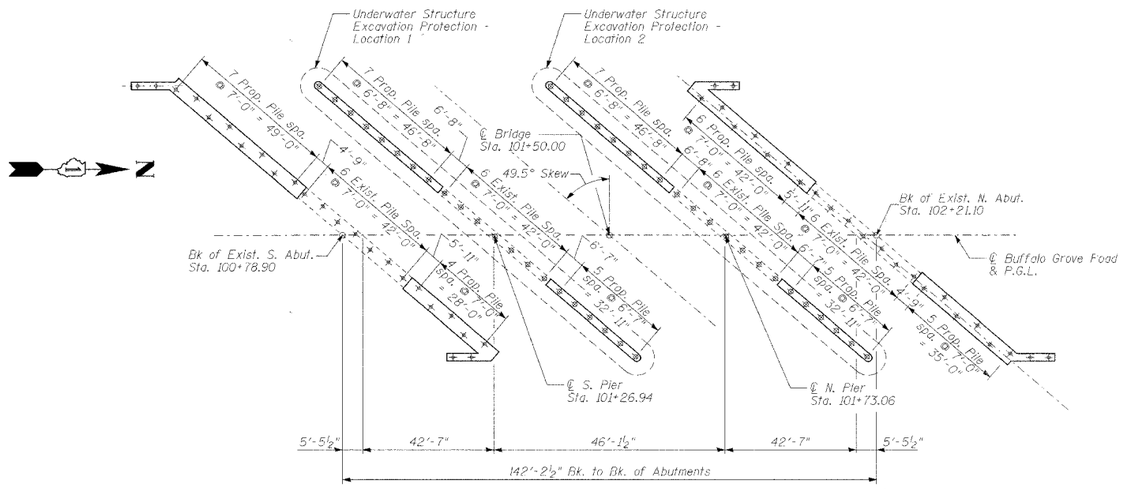
D.A. - 36.5 Sq. Mi. Low Grade Elev. = 671.73

Flood	Freq. (Year)	Q (Cfs)	Opening (Sq.Ft.) Exist.	Opening (Sq.Ft.) Prop.	Headwater Elev. Exist.	Headwater Elev. Prop.	Tailwater Elev. Exist.	Tailwater Elev. Prop.	Head Ft. Exist.	Head Ft. Prop.
-	-	-	-	-	-	-	-	-	-	-
Design	30	2191	595	595	665.5	665.5	665.4	665.3	0.1	0.2
Base	100	2995	663	663	666.5	666.6	666.4	666.4	0.2	0.2
Overtopping	-	-	-	-	-	-	-	-	-	-
Max. Calc.	100	2995	663	663	666.5	666.6	666.4	666.4	0.2	0.2

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Porous Granualr Embankment	Cu. Yd.		397	397
*	Protective Coat	Sq. Yd.	1576		1576
	Removal of Existing Superstructures	Each	1		1
	Concrete Removal	Cu. Yd.		22.3	22.3
	Slope Wall Removal	Sq. Yd.		401	401
	Structure Excavation	Cu. Yd.		417	417
	Floor Drains	Each	8		8
	Neoprene Expansion Joint, 2"	Foot	283		283
	Concrete Structures	Cu. Yd.		270.4	270.4
	Concrete Superstructure	Cu. Yd.	494.7		494.7
	Bridge Deck Grooving	Sq. Yd.	741		741
	Elastomeric Bearing Assembly, Type I	Each	32		32
	Elastomeric Bearing Assembly, Type II	Each	16		16
*	Formed Concrete Repair (depth equal to or less than 5")	Sq. Ft.		44	44
	Furnishing and Erecting Structural Steel	L.Sum	1		1
	Stud Sheer Connectors	Each	6496		6496
	Reinforcement Bars, Epoxy Coated	Pound	91,920	30,810	122,730
	Pedestrian Railing	Foot	167	195	362
	Slope Wall, 6"	Sq. Yd.		957	957
	Furnishing Metal Pile Shells, 12"	Foot		3060	3060
	Driving and Filling Shells	Foot		3060	3060
	Test Pile Metal Shells	Each		4	4
	Name Plates	Each	1		1
	Bridge Seat Sealer	Sq. Ft.		1454	1454
	Epoxy Crack Sealing	Foot		104	104
*	Slope Wall Crack Sealing	Foot		120	120
*	Underwater Structure Excavation Protection - Location 1	Each		1	1
*	Underwater Structure Excavation Protection - Location 2	Each		1	1
*	Furnishing and Setting Brick Pavers	Sq. Ft.	2550		2550
*	Mechanically Stabilized Earth Retaining Walls	Sq. Ft.	6315		6315
	Bar Splicers	Each	390	252	642
*	Bicycle Railing	Foot	167	254	421
*	Parapet Railing	Foot	274		274

* Denotes Special Provision Item.



FOOTING LAYOUT PLAN

REVISIONS	
NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

LAKE COUNTY DIVISION OF TRANSPORTATION

NOTES AND BILL OF MATERIAL

BUFFALO GROVE ROAD
AT INDIAN CREEK BRIDGE
SECTION 00-00254-01-BR STATION 101+50.00
LAKE COUNTY STRUCTURE NO. 049-3043
SCALE: NONE DRAWN BY: TBW
DATE: 7/21/06 CHECKED BY: ATI, WK

PLAN | SURVEYED | DATE | BY
NOTE BOOK | ALIGNMENT CHECKED | DATE | BY
NO. | RT. OF WAY CHECKED | DATE | BY
AND TIES SHOWN

PROFILE | SURVEYED | DATE | BY
NOTE BOOK | PLANS CHECKED | DATE | BY
NO. | ELEV. NOTED | DATE | BY
AND TIES SHOWN | QUANTITIES CHKD | DATE | BY

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