GENERAL NOTES

STRUCTURAL REMOVAL

Deck and structural concrete shall be removed as required by Article 501.03 of Standard Specifications (Ref. 2.)

The Contractor shall take care not to damage reinforcement bars and PPC Beams which are to remain in place. Any damage to the reinforcement bars or PPC Beams to remain in place shall be repaired or replaced to the satisfaction of the Engineer at the Contractor's expense.

Tvina of loose bars will be required.

Reinforcing bars which have been cut or have lost 25 percent or more of their original cross sectional area shall be supplemented by new in kind reinforcement bars. New bars shall be lapped a minimum of 32 bar diameters to existing bars. An approved "squeeze type" mechanical bar splice capable of developing in tension at least 125 percent of the yield strength of the existing bar shall be used when it is not feasible to provide the minimum bar lap. Alternatively, in kind replacement bars shall be drilled and epoxy grouted into concrete within the closest vicinity of the existing bar to the satisfaction of the

Drilling and epoxy grouting of anchor rods, reinforcement bars, and bar splices shall be performed per Article 584 of Standard Specifications (Ref.2).

No welding of bars will be permitted.

Immediately after completion of the concrete removal and reinforcement repairs, the repair areas shall be cleaned of dust and debris. Once the initial cleaning is completed, the repair areas shall be thoroughly blast cleaned to a roughened appearance free from all foreign matter. Particular attention shall be given to removal of concrete

Any method of cleaning which does not consistently produce satisfactory results shall be discontinued and replaced by an acceptable method.

All debris, including water, resulting from the blast cleaning shall be confined and shall be immediately and thoroughly removed from all areas of accumulation. If concrete placement does not follow immediately after the final cleaning, the area shall be carefully protected by a well-anchored polyethylene sheeting.

Exposed reinforcement bars shall be free of dirt, detrimental scale, paint, oil, or other foreign substances which may reduce bond with the concrete. A tight non-scaling coating of rust is not considered objectionable. Loose, scaling rust shall be removed by rubbing with burlap, wire brushing, blast cleaning or other methods approved by the Engineer.

Protective Shielding shall be in place prior to performing any work on the Bridge Superstructure.

Contractor is responsible to obtain Tollway Permitting for all lane closures with regard to installing and removing of the Protective Shield. Cost incidental to Protective Shield.

CONSTRUCTION

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 bid for the

All construction joints shall be bonded.

Prior to pouring the new concrete for the deck, all loose rust, loose mill scale and all other loose, potentially detrimental foreign material shall be removed from the top surfaces of diaphraams and beams in contact with new concrete. The cost of this work will included in the pay item covering removal of the existing concrete.

Sliding plate bearing under Beam 2 on South Abutment shall be repositioned as required by the special provision "Bearing Repositioning".

All new structural steel shall be shop painted with an inorganic zinc rich primer per Article 1008.22 of Standard Specifications (Ref. 2.) except where noted.

The existing Aluminum Handrails shall be removed and delivered to the ISTHA Maintenance Yard M-5.

REINFORCEMENT BARS

All new reinforcement bars shall conform to the requirements of AASHTO M31 or M322, Grade 60.

Cover from the concrete to face of reinforcement bars shall be 2" unless otherwise shown.

Reinforcement bar bending dimensions are out to out.

Reinforcement bars designated "(E)" shall be epoxy coated.

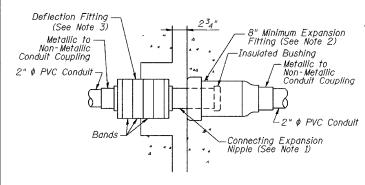
Reinforcement bar splices shall be in accordance with Bridge Manual (Ref.1).

REFERENCES

- 1. Bridge Manual, Illinois Department of Transportation, 2004.
- 2. Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, Adopted January 1, 2002.

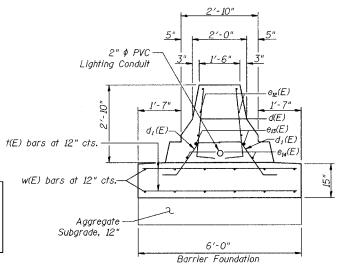
BILL OF MATERIAL

	Bar	No.	Size	Length	Shape		
***	d(E)	132	#5	3'-3"			
***	d1(E)	132	#5	2′-8"			
	e _{le} (E)	12	#4	29'-9"			
	e ₁₃ (E)	4	#8	29'-9"			
	e ₁₄ (E)	4	#5	29'-9"			
	†(E)	120	#5	5′-9"			
	w(E)	24	#5	29′-9"			
	Reinforcement Bares, Epoxy Coated Concrete Superstructure			Lbs.	2959		
				. Cu. Yd.	9.7		
	Concre: Structu	-		Cu. Yd.	16.7		

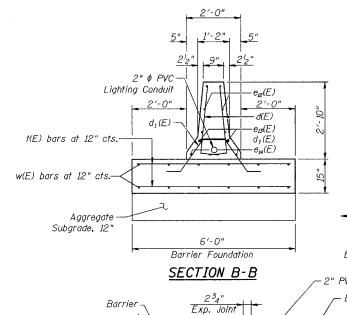


DETAIL "A" CONDUIT EXPANSION/DEFLECTION COUPLING

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



SECTION A-A

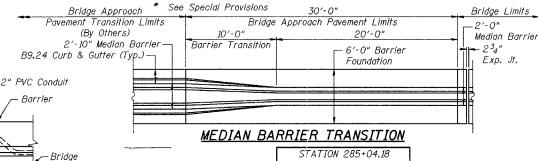


ROUTE NO. TOTAL SHEETS SHEET NO. 2585 30 11 FED. ROAD DIST. NO. 7 ILLENOIS FED. AID PROJECT

SHEET NO. S-2 S-21 SHEETS

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL		
	Concrete Superstructure	Cu. Yd.	365.0		365.0		
	Protective Coat	Sq. Yd.	2917	13	2930		
	Bridge Deck Grooving	Sq. Yd.	1682		1682		
Δ*	Concrete Bridge Deck Scarification, $({}^{l}_{4}")$	Sg. Yd.	861.3		861.3		
	Bituminous Concrete Surface Removal	Sq. Yd.	(861)		(861)		
	Reinforcement Bars, Epoxy Coated	Pound	70870	3940	74810		
	Bridge Deck Latex Concrete Overlay, (2½")	Sq. Yd.	861.3		861.3		
	Name Plates	Each	1		1		
	Concrete Structures	Cu. Yd.		24.0	24.0		
	Epoxy Crack Sealing	Foot	13		13		
	Protective Shield	Sq. Yd.	1257		1257		
	Bar Splicers	Each		<i>152</i>	152		
	Preformed Joint Seal, 2 ¹ 2"	Foot	170.0		170.0		
	Bridge Rail Removal	Foot	251		251		
	Removal Of Existing Concrete Deck	Each	1		1		
*	Bearing Repositioning	Each		1	1		
	Form Conc. Rep. =< 5"	Sq. Ft.	17.5		17.5		
	Form Conc. Rep. > 5"	Sq. Ft.		11.4	11.4		
Δ	Concrete Removal	Cu. Yd.	(53.0)	37.3	90.3		
	Deck Slab Repair (Full Depth), Type II	Sq. Yd.	49		49		
	Deck Slab Repair (Partial Depth)	Sq. Yd.	<i>1</i> 51		151		
	Drainage Scuppers, DS-33	Each		2	2		
*	Pedestrian Railing Special	Foot	251		251		
*	Junction Box, Special	Each	4		4		
	Bridge Approach Pavement	Sq. Yd.	482		482		
	Temporary Concrete Barrier	Foot	460		460		
*	Aggregate Subgrade, 12"	Sq. Yd.		40	40		
*	Approach Slab Removal	Sq. Yd.	413		413		
\triangle	(Bifuminous Maferials (Prime Coat)	Gállón	20		20		
Δ	Bituminous Concrete Binder Course, Mix. B, Typ. 2	Ton	<i>17</i>	<u></u>	III)		
Bridge Approach * See Special Provisions 30'-0" Bridge Limit							



REBUILT 2005 BY VILLAGE OF SCHAUMBURG STATE OF ILLINOIS

> LOADING HS20 STR. NO. 016-0676

NAME PLATE See Std. 515001

GENERAL NOTES AND BILL OF MATERIALS MEACHAM ROAD OVER NORTHWEST TOLLWAY F.A.U. ROUTE 2585 SECTION 05-00068-02-BR

COOK COUNTY

STA. 285 + 04.18

STRUCTURE NO. 016-0676



DESIGNED: SCHELBIAN/AYARGICOGLU DRAWN: SCHELBIAN/AYARGICOGLU

CHECKED: RALEE

Notes For Conduit Expansion/Deflection Coupling:

2" PVC Conduit

Stainless Steel Junction Box Embedded in Barriers, (16" x 12" x 6" Typical

Bridge Approach

(By Others)

Transition Limits

Barrier Foundation

1. Provide required length of connecting Expansion Nipple. See Sheets S-11 & S-12 for the expansion joint characteristics.

ЬB

ELEVATION VIEW

Bridge Approach Pavement Limits

2. The Barrel of the fitting shall be fully embedded in the concrete of one side of the Expansion Joint.

JUNCTION BOX, EMBEDDED IN BARRIERS

Barrier Transition

ĻΑ

3. A cavity opening, if required, shall be 3" larger dia. and a max. depth of half of the Deflection Sleeve length. The Deflection Fitting shall be centered in the opening and embedded in the concrete only up to the Deflection Fitting center.

Deck

20'-0"

-- 2'-10" Median Barrier

└─15" Barrier Foundation

A Concrete Median Removal Added 5-27-05

Bridge Limits _