(217) 782 6990 0597 NEGANGARD ST (217) 785 (T ENGINEER: JOH

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 745 (IL 104) SECTION (108BR)I-1

PIKE COUNTY BEAM REPLACEMENT C-96-013-08

23 Peray o POP 491 27 R4VV R3W

PROJECT LENGTH = 120 FT = 0.02 MILES

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STANDARDS

000001-05 001001--01

001006

 \circ

630007-07

631031--06

701006-02

701901

BLR21--7

BLR22-5

BROWER CREEK SN 075-0029 STA 1721 + 25 **EXISTING SINGLE** SPAN 54'-3" BK TO **BK - REPLACE PPC** DECK BEAM Nos. 3,4,5,6,7 & 11



ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

CONTRACT NO. 72B57

SECTION 745 (108BR)I-1 PIKE ILLINOIS CONTRACT NO. 72857 FED. ROAD DIST. NO.

D-96-013-08



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION Eric E. Harm PO Christine M. Reed D

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

- 1 ALL ELEVATIONS SHOWN IN THE PLANS ARE U.S.G.S. MEAN SEA LEVEL DATUM.
- 2 ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERRUPTED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN IN THE PLANS.
- 3 EXISTING PAVEMENT DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS, AND NOT OTHER WISE NECESSARY TO REPLACE, SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION IF THE ENGINEER DECIDES TO HAVE THE CONTRACTOR RESET THE MONUMENT, THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.
- 6 NO PASSING ZONES SHALL BE FIELD VERIFIED BY DIST. 6 SIGN SHOP, (217) 785-0288, 14 DAYS PRIOR TO FINAL PAVEMENT MARKINGS.
- PRIOR TO ROAD CLOSURE, THE R.E. SHALL VIDEOTAPE THE LOCAL ROAD NETWORK FOR DETERMINATION OF DAMAGES DUE TO THE DETOURED TRAFFIC. THIS SHALL BE USED TO DETERMINE NECESSARY REPAIRS TO RETURN THE LOCAL ROADS TO THEIR ORIGINAL CONDITION AS DETERMINED BY THE ENGINEER. ESTIMATED QUANTITIES FOR REPAIRS TO LOCAL ROADS ARE INCLUDED IN THE PLANS.

COMMITMENTS

- THE FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.
- ALL WORK IN THIS CONTRACT SHALL BE COMPLETED BEFORE AUGUST 20, 2008 AND WITHIN 30 CONSECUTIVE CALENDAR DAYS FROM THE FIRST DAY OF ALLOWED ROAD CLOSURE.

INDEX OF SHEETS

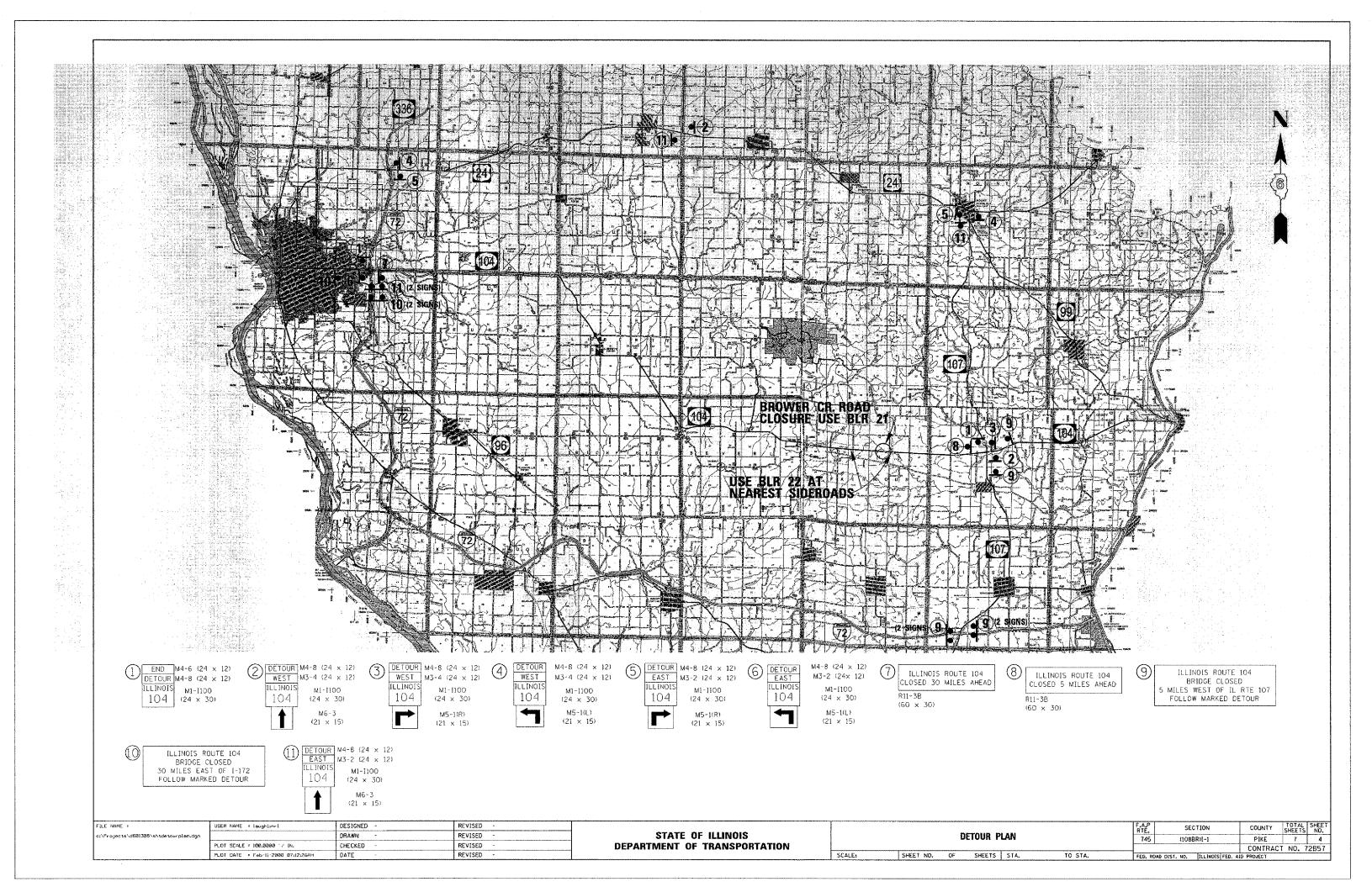
1	COVER SHEET
2	GENERAL NOTES & COMMITMENTS
3	SUMMARY OF QUANTITIES
4	DETOUR PLAN
5 - 7	STRUCTURE PLANS

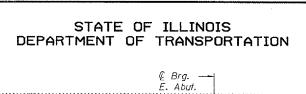
DICTRICT OIL
DISTRICT SIX
EXAMINED February 5 2008
OPERATIONS ENGINEER
EXAMINED FEES 20 68
PROGRAM IMPLEMENTATION ENGINEER
EXAMINED 728 20 08
PROGRAM DEVELOPMENT ENGINEER

FILE NAME =	USER NAME = mwajejsi	DESIGNED	REVISED			F.A.P	SECTION	COUNTY	TOTAL SHEET
c:\projects\d601308\shtgennotes.dgn		DRAWN	REVISED -	STATE OF ILLINOIS	GENERAL NOTES AND COMMITMENTS	745 (1	108BR)I-1	PIKE	7 2
	PLOT SCALE = 100.0000 '/ IN.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	T NO. 72857
	PLOT DATE = Feb-08-2008 01:58:46PM	DATE -	REVISED		SCALE: SHEET NO OF SHEETS STA TO STA.	FED. ROAD DIST. NO	ILLINOIS FED. All) PROJECT	

		SUMMARY OF QUANTITIES		TOTAL
			UNITS	QUANTITY
				X081-2A 100%. STATE
	PAY CODE NUMBER	PAY ITEM DESCRIPTION		
Ì	<i>50300300</i> 50301200	PROTECTIVE COAT CONCRETE WEARING SURFACE	50 YD S0 YD	117.60 117.60
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SO FT	959.00
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2960.00
	50900905	REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	54.00
	67100100	MOBILIZATION	L SUM	1.00
	70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1.00
	70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1.00
	70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1.00
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2.00
*	78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	170.00
	X0301424	SILICONE JOINT SEALER	FOOT	28.00
	X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	959.00
-	X0320887	POLYMER CONCRETE	CU FT	1.00
	X0321781	MECHANICAL SPLICE	EACH	187.00
	X5030275	CONCRETE WEARING SURFACE REMOVAL	SQ YD	10.40
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	6

						*SPECIALTY	ITEMS				Re	٧.
FILE NAME =	USER NAME = laughlinel	DESIGNED -	REVISED -					F.A.P RTE	SECTION	COUNTY	TOTAL	SHEET
SUMMARY OF QUANTITIES		DRAWN -	REVISED -	STATE OF ILLINOIS		SUMMARY OF QUANTITIES		745	(IOSBR)I-1	PIKE	7	3
	PLOT SCALE = 100.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					110001111	CONTRA	CT NO. 7	2857
	PLOT DATE = Feb-11-2008 07:12:14AM	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD	OIST. NO. ILLINOIS FED.			





DESIGN STRESSES

FIELD UNITS

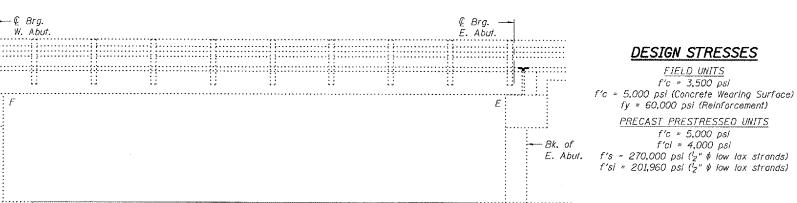
f'c = 3,500 psi

fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi

f'ci = 4,000 psi



745 Pike Contract Number: 72B57

TOTAL SHEET SHEET NO. 1 3 SHEETS

GENERAL NOTES

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures.

If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge. a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new or existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams.

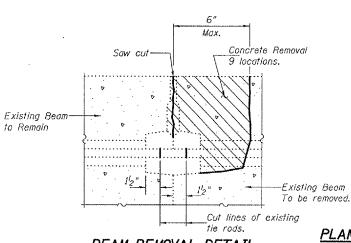
The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

The deck surface shall have its final finish tined according to Article 420.09(e)(I) of the Standard Specifications. Cost included with Concrete Wearing Surface.

Work to be done under road closure.

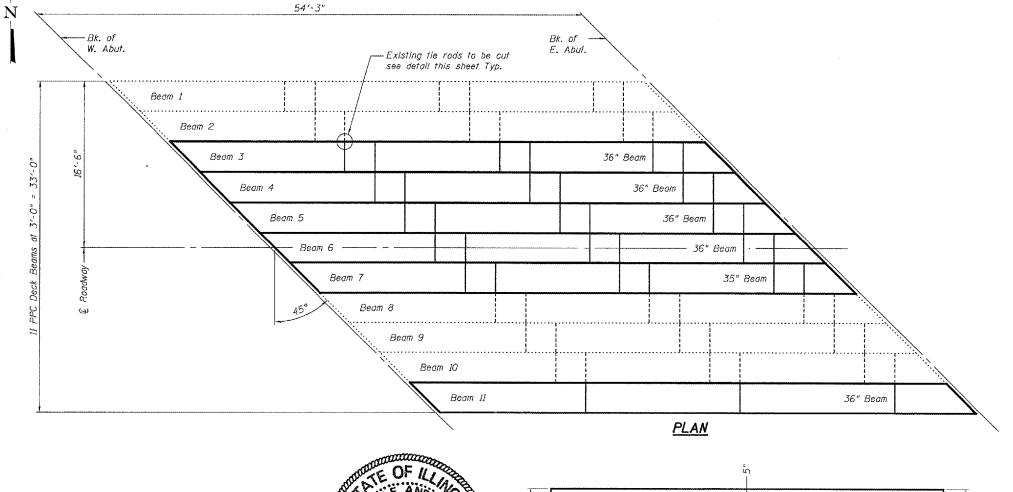
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	959
PPC Deck Beams (27" Depth)	Sq. Ft.	955
Concrete Wearing Surface	Sq. Yd.	117.6
Concrete Wearing Surface Removal	Sq. Yd.	10.4
Reinforcement Bars, Epoxy Coated	Pound	1,840
Removing and Re-erecting Existing Railing	Foot	5 4
Silicone Joint Sealer	Foot	28
Mechanical Splice	Each	207
Polymer Concrete	Cu. Ft.	1.0
Asbestos Bearing Pad Removal	Each	6
Protective Coat	Sq. Yd.	117.6



BEAM REMOVAL DETAIL AT TRANSVERSE TIES

PLAN AND ELEVATION F.A.P. RT. 745 IL 104 PIKE COUNTY SN 075-0029



ELEVATION

DESIGNED Advicen T. Hellows UHU CHECKED ATH

February 26, 2008

Bk. of

W. Abut.

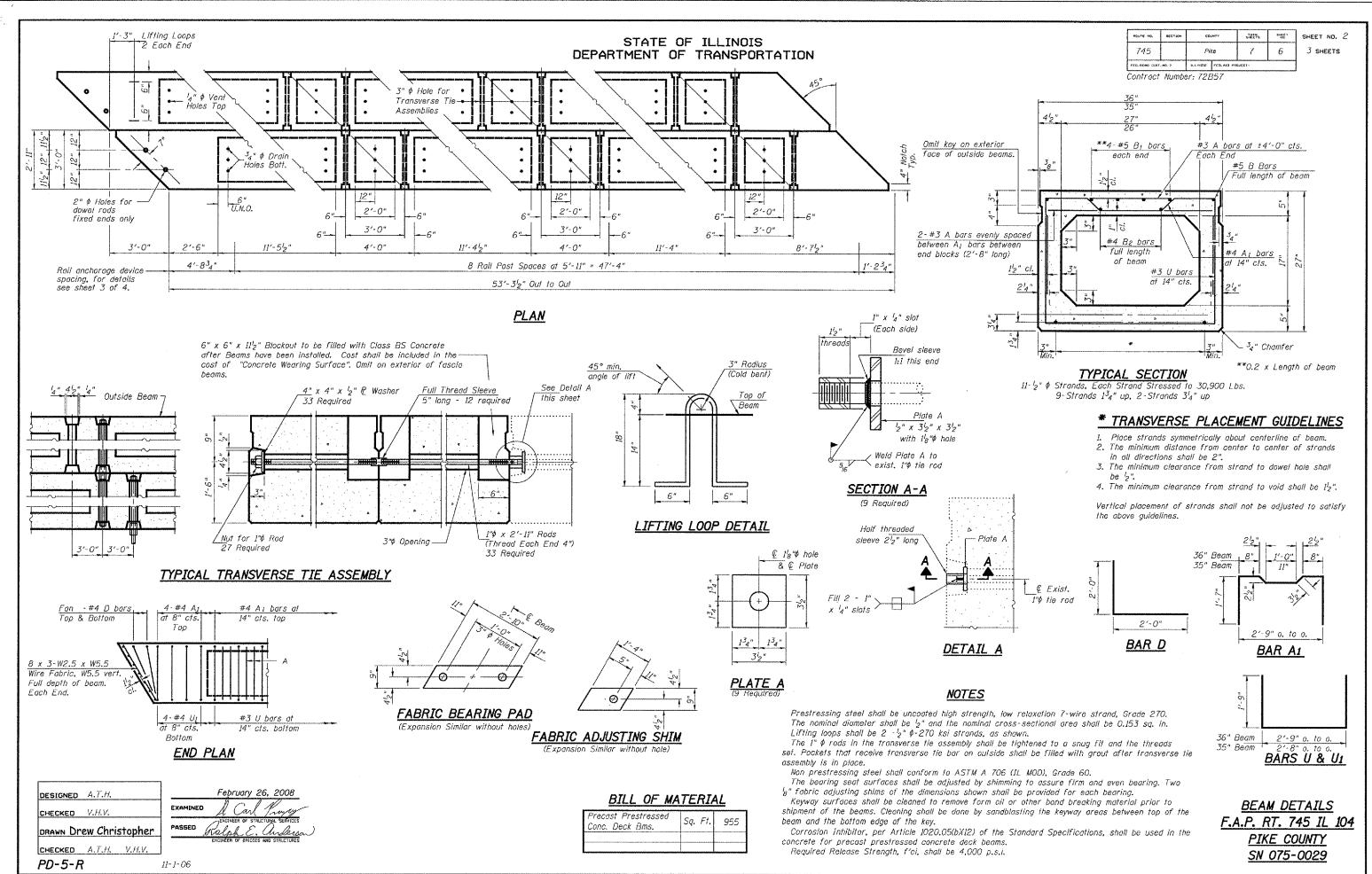
081-004625 STRUCTURAL

Expires: November 30, 2008

€ Span-Top of Beam End of Beam

CONCRETE WEARING SURFACE PROFILE

SLT-96-001-07



SLT-96-001-07

