STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

LOCATION 1: FAP 343: IL 68 (DUNDEE RD.)

OVER WHEELING DRAINAGE DITCH (SN 016-0525)
LOCATION 2: FAU 1453: 22ND STREET
OVER SALT CREEK (SN 022-0084)

SECTION 2005-005BR

PCC DECK BEAM REPLACEMENT
COOK AND DUPAGE COUNTIES
C-91-119-05

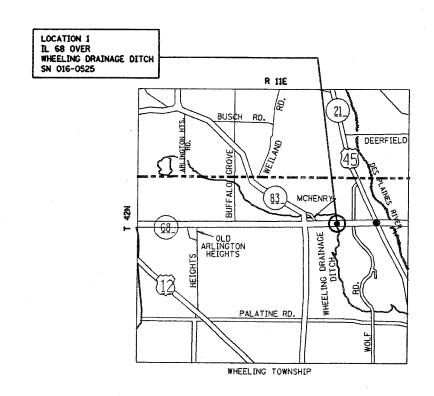
TRAFFIC DATA

LOCATION 1: ADT (2004) = 30400 SPEED LIMIT = 35 MPH

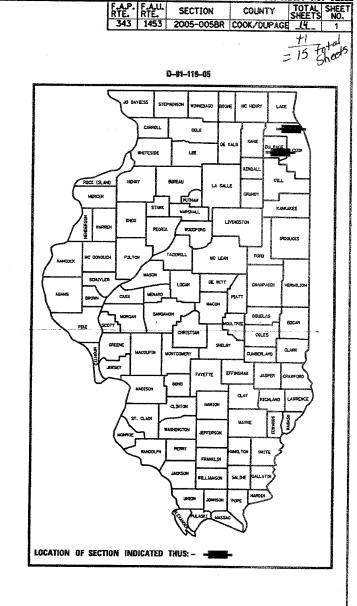
LOCATION 2 ADT (2001) = 32200 SPEED LIMIT = 25 MPH

IMPROVEMENTS LOCATED IN THE VILLAGES OF WHEELING AND OAK BROOK

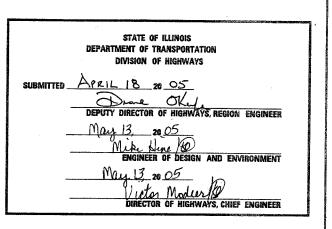
FOR INDEX OF SHEETS, SEE SHEET NO. 2







CONTRACT NO. 629



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 62912

	E 4 111		CONTRA	T NO.	8291
	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
343	1453	2005-00588	COOK/DUPAGE	14	74U.
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INDEX OF SHEETS

COVER PAGE

INDEX OF SHEETS, GENERAL NOTES, STATE STANDARDS

SUMMARY OF QUANTITIES

4.-6. STACING PLANS

7.-10. BRIDGE PLANS (LOC. 1: SN 016-0525)

11.-14. BRIDGE PLANS (LOC. 2: SN 022-0084)

14A. TRAFFIC CONTROL DETAIL

LIST OF STATE STANDARDS

701301-02

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601-04 701602-02

URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE 701801 - *0*3

LANE CLOSURE, MULTILANE, IW OR 2W CORSSWALK OR SIDEWALK CLOSURE 704001-02

TEMPORARY CONCRETE BARRIER 702001-05

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE USE	AC/PG	AIR VOIDS RAP %						
BIT. CONC. SURFACE COURSE, SUPERPAVE MIX "D", N50	PG 64-22	4.0% & 50 GYR.	15					

NOTE: THE UNIT WEIGHT USED FOR ALL BITUMINOUS SURFACE MIXTURES IS 112 LBS./SQ.YD./IN.

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (OR TOLLWAY) PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT (OR ISTHA).

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTORS RESPONIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRATOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL CONTACT MR. WALTER CZARNY AT (773) 685-8386 FOR WORK ON IL 68, AND MR. DON CHIARUGI AT (847) 741-9857 FOR WORK ON 22ND STREET, TWO (2) WEEKS PRIOR TO THE START OF THIS PROJECT SO THAT THE EXACT STATIONING OF NO PASSING ZONES AND OTHER PERMANENT PAVEMENT MARKINGS MAY BE ESTABLISHED.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECIEVED FROM BRIDGE INSPECTORS

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL FOR TYPICAL APPLICATION OF RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHOWN IN THE PLANS.

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

CONCRETE SUPERSTRUCTURES SHALL HAVE A SEVEN DAY MINIMUM CURE.

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ARTHENT OF TRANSPORTATION

INDEX OF SHEETS GENERAL NOTES REQUIREMENT CHART STATE STADARDS

CHECKED BY

62912

RTE.	RTE.	SECTION			COUNT	Υ	TOTAL SHEETS	SMEET MC.	
343	1453	2005-0058R				COOK/DU	PAGE	14	3
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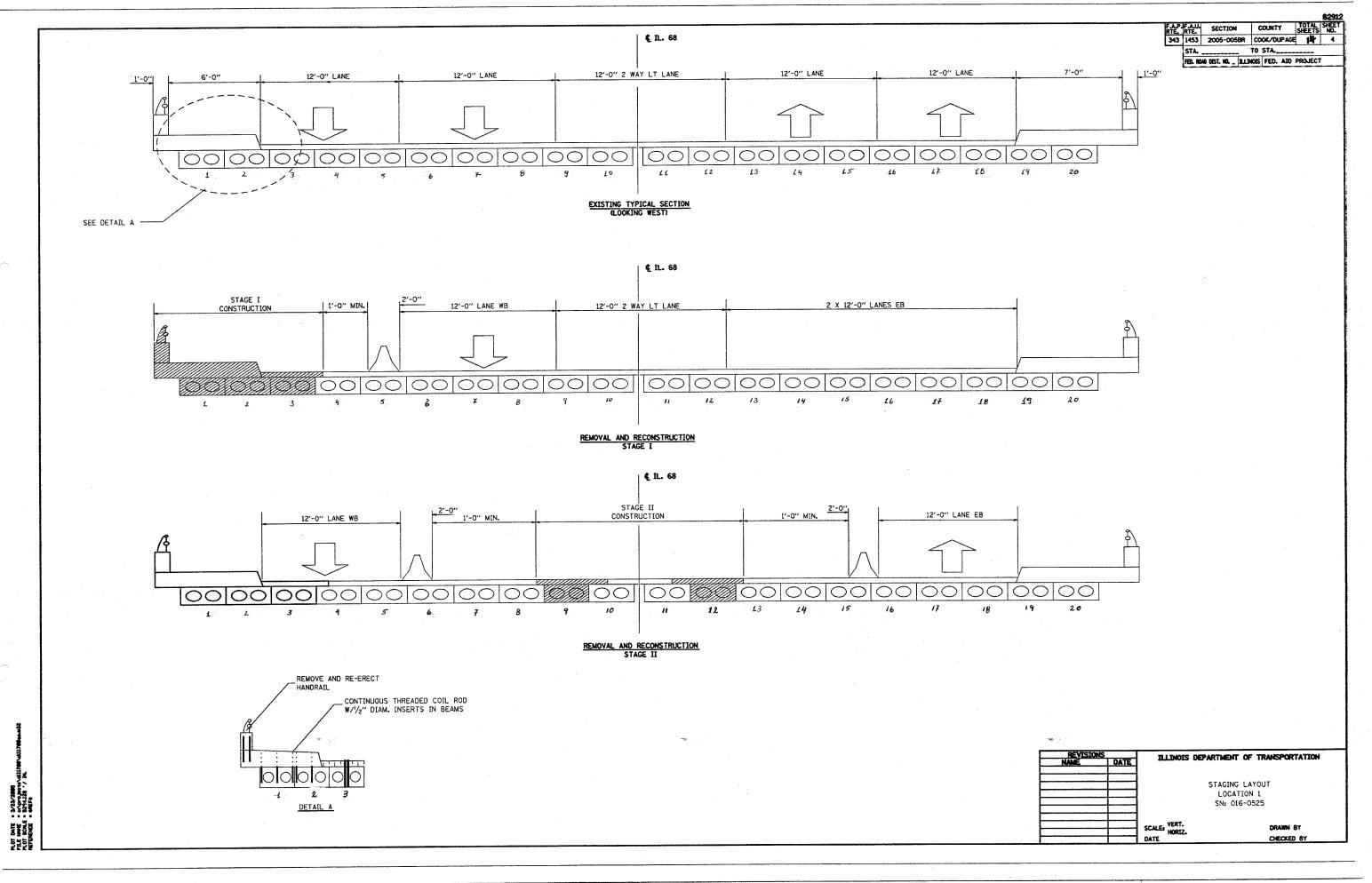
URBAN URBAN CONSTRUCTION TYPE CODE SFTY-2A X080-2A CONSTRUCTION TYPE CODE SFTY-2A X080-2A SUMMARY OF QUANTITIES SUMMARY OF QUANTITIES LOC. 1 LOC. 2 LOC. 1 LOC. 2 TOTAL TOTAL QUANTITIES ITEM UNIT COOK DUPAGE CODE NO CODE NO ITEM UNIT QUANTITIES COOK DUPAGE 016-0525 022-0084 016-0525 022-0084 IMPACT ATTENUATORS, TEMPORARY 44001000 BITUMINOUS CONCRETE SURFACE REMOVAL SQ YD 100 Z0030240 (NON-REDIRECTIVE), TEST LEVEL 2 50102400 CU YD CONCRETE REMOVAL 22.7 16.8 IMPACT ATTENUATORS, RELOCATE EACH 2 Z0030340 (NON-REDIRECTIVE), TEST LEVEL 2 CU YD 50300255 CONCRETE SUPERSTRUCTURE 32. 2 18. 7 50300300 PROTECTIVE COAT SQ YD 117.3 44. 7 72.6 PRECAST PRESTRESSED CONCRETE DECK BEAMS SQ FT 569 569 50400405 (21" DEPTH) 50400505 PRECAST PRESTRESSED CONCRETE DECK BEAMS SQ FT 2169 2169 (27" DEPTH) 50500405 FURNISHING AND ERECTING STRUCTURAL POUND 1260 1260 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 3560 1410 2150 50900905 REMOVING AND RE-ERECTING EXISTING FOOT 78 58100200 SQ YD 356.8 305 WATERPROOFING MEMBRANE SYSTEM 51. 8 58300100 PORTLAND CEMENT MORTAR FAIRING COURSE FOOT 1487 268 1219 ENGINEER'S FIELD OFFICE, TYPE A CAL MO 67000400 0. 5 MOSILIZATION L SUM 67100100 70102630 TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 L SUM 70102632 TRAFFIC CONTROL AND PROTECTION, 1 STANDARD 701602 70102640 TRAFFIC CONTROL AND PROTECTION, L SUM 0. 5 STANDARD 701801 70300520 PAVEMENT MARKING TAPE, FOOT 80 TYPE III 4" FOOT 70400100 TEMPORARY CONCRETE BARRIER 760 120 RELOCATE TEMPORARY CONCRETE BARRIER 760 70400200 FOOT 120 78000100 THERMOPLASTIC PAVEMENT MARKING 100 100 - LETTERS AND SYMBOLS 78000200 THERMOPLASTIC PAVEMENT MARKING FOOT 1640 200 1440 REMOVAL OF EXISTING PRECAST PRESTRESSED X0320047 SQ FT 2796 575 2221 CONCRETE DECK BEAMS X0322467 TEMPORARY INFORMATION SIGNING FOR LANE SQ FT CLOSURE SITUMINOUS CONCRETE SURFACE COURSE, TON X4066424 41.8 SUPERPAVE, MIX "D", N50 20001900 ASSESTOS BEARING PAD REMOVAL EACH 30 2 28

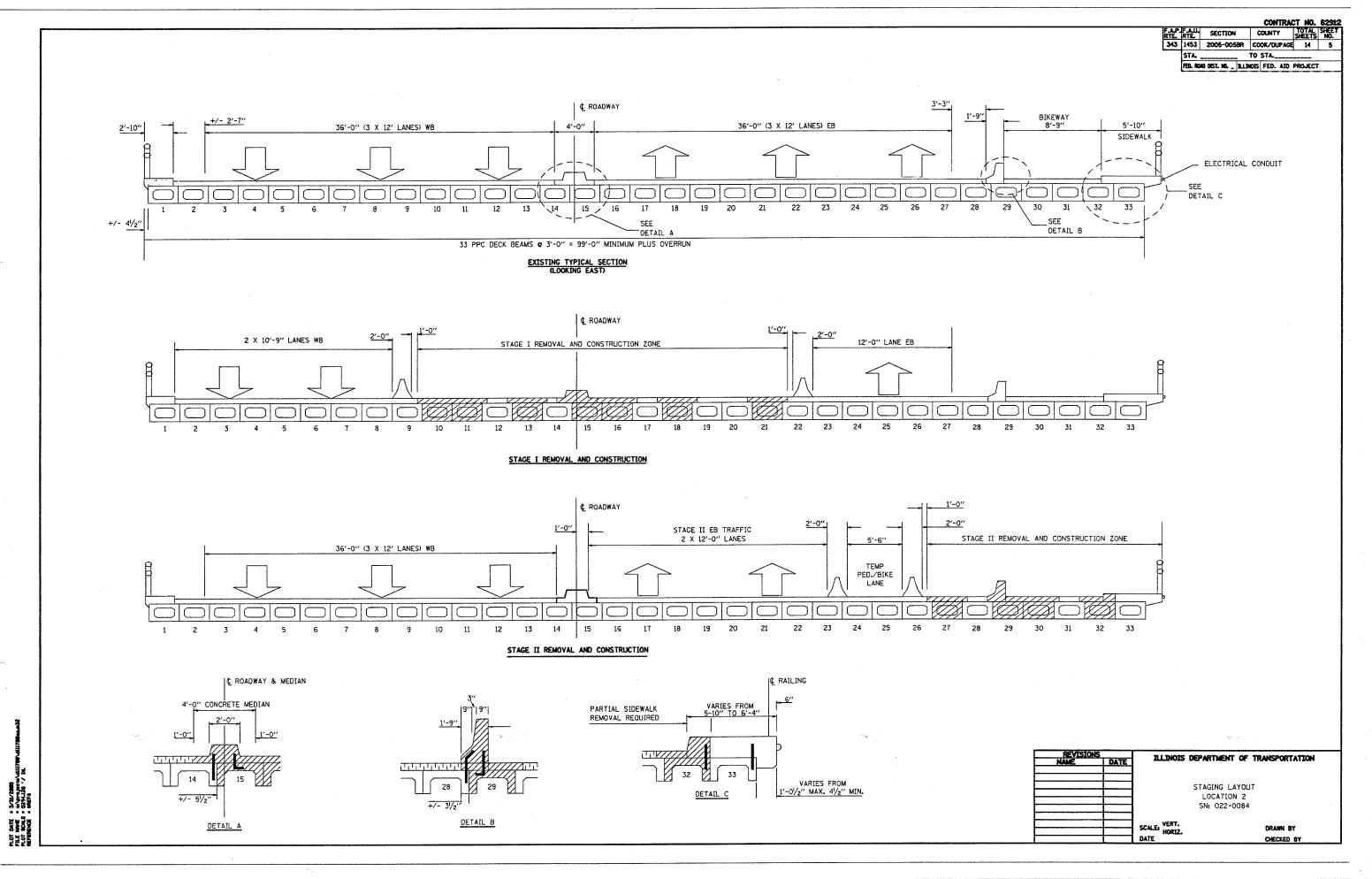
> △ SFTY-3N * SPECIALTY ITEMS

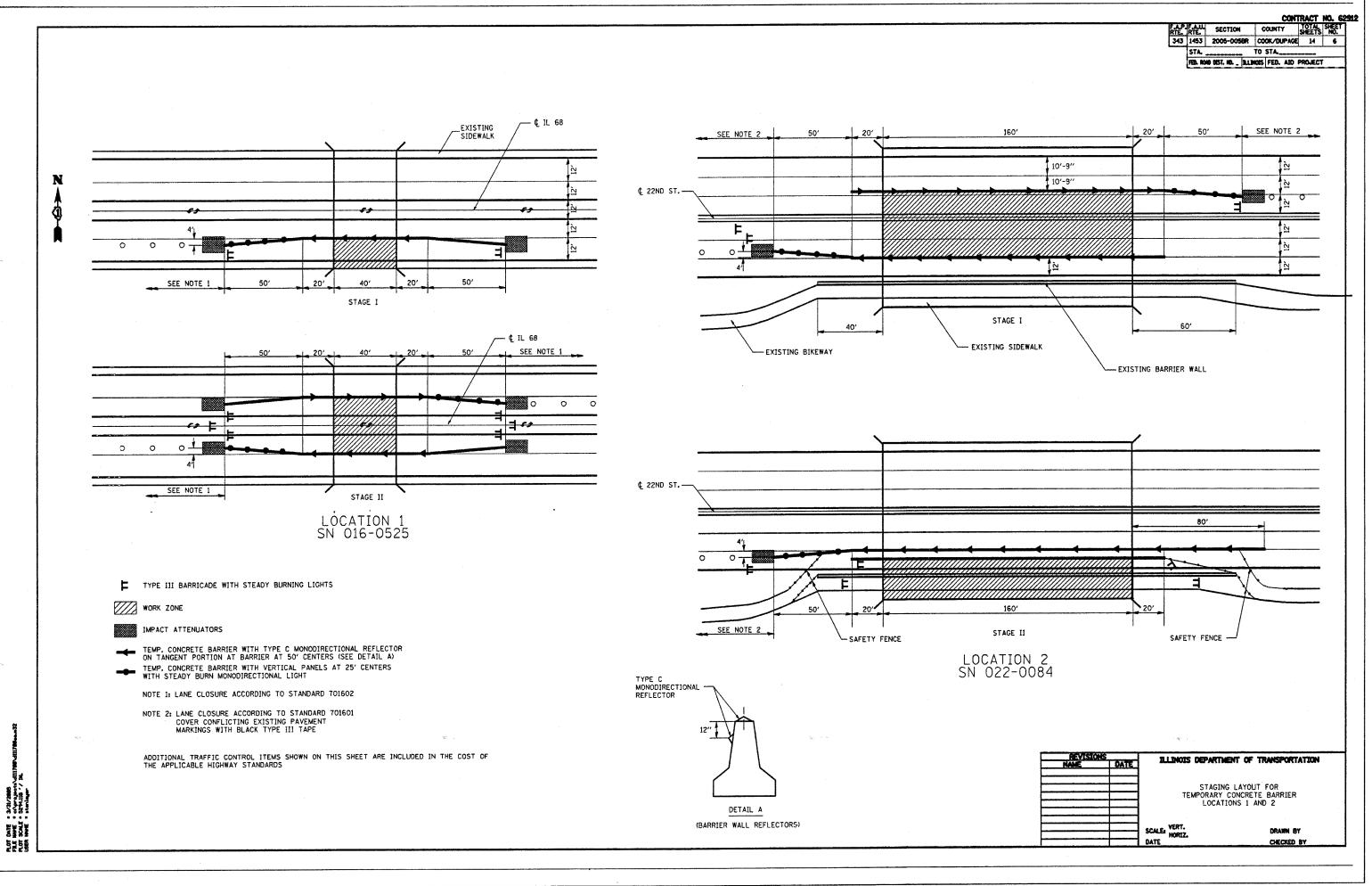
REVISIONS II.

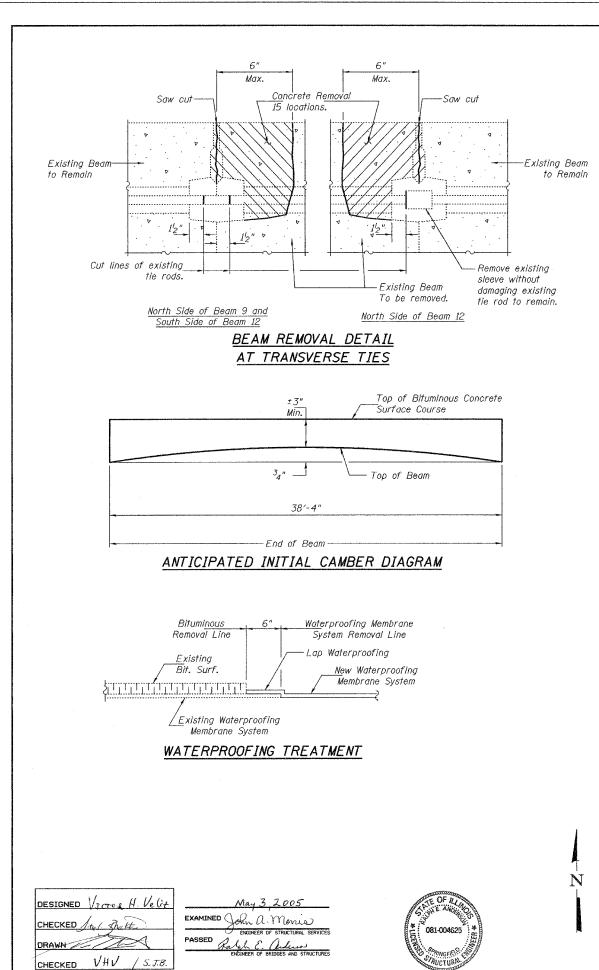
SUMMARY OF QUANTITIES

PLOT DATE: 4/15/2005



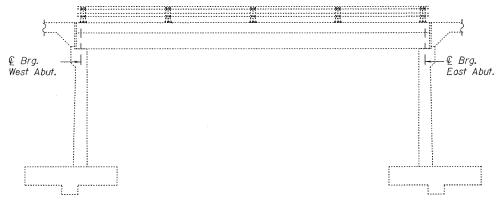




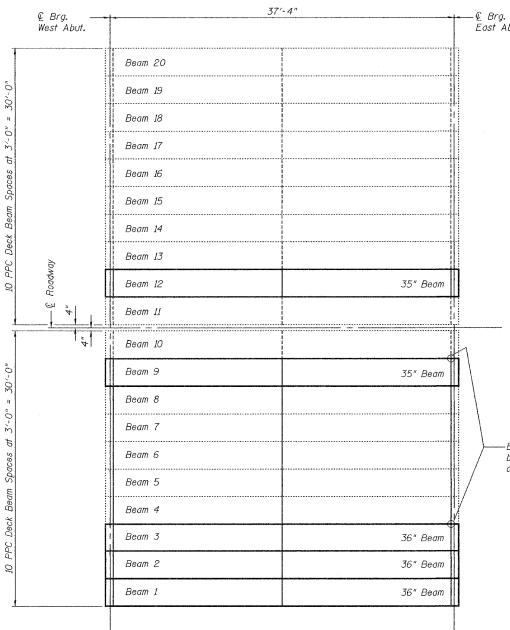


Expires: November 30, 2006

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



ELEVATION



SHEET NO. SHEET NO. 17 Cook 14 PED. ROAD DEST. NO. 7 ILLINGIS PED. AID PROJECT-

4 SHEETS

Contract Number: 62912

GENERAL NOTES

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 work.

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 P.P.C. Deck Beams".

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

The top surface of the beams shall be finished in accordance with Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of \(\frac{1}{a} \)".

Temporary concrete barrier shall only be anchored into the overlay and not the PPC Deck Beams.

Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bituminous Concrete Surface Removal	Sq. Yd.	10.6
Waterproofing Membrane System	Sq. Yd.	51.8
Removal of Existing PPC Deck Beams	Sq. Ft.	575
Bituminous Concrete Surface Course, Superpave, Mix "D", N 50	Tons	7.5
PC Mortar Fairing Course	Foot	268
PPC Deck Beams (21" Depth)	Sq. Ft.	569
Concrete Superstructure	Cu. Yd.	13.5
Protective Coat	Sq. Yd.	44.7
Concrete Removal	Cu. Yd.	5.9
Reinforcement Bars, Epoxy Coated	Pound	1410
Asbestos Bearing Pad Removal	Each	2
Removing and Re-Erecting Existing Railing	Foot	78

-Existing tie rods to be cut (Typ.) See detail on this sheet.

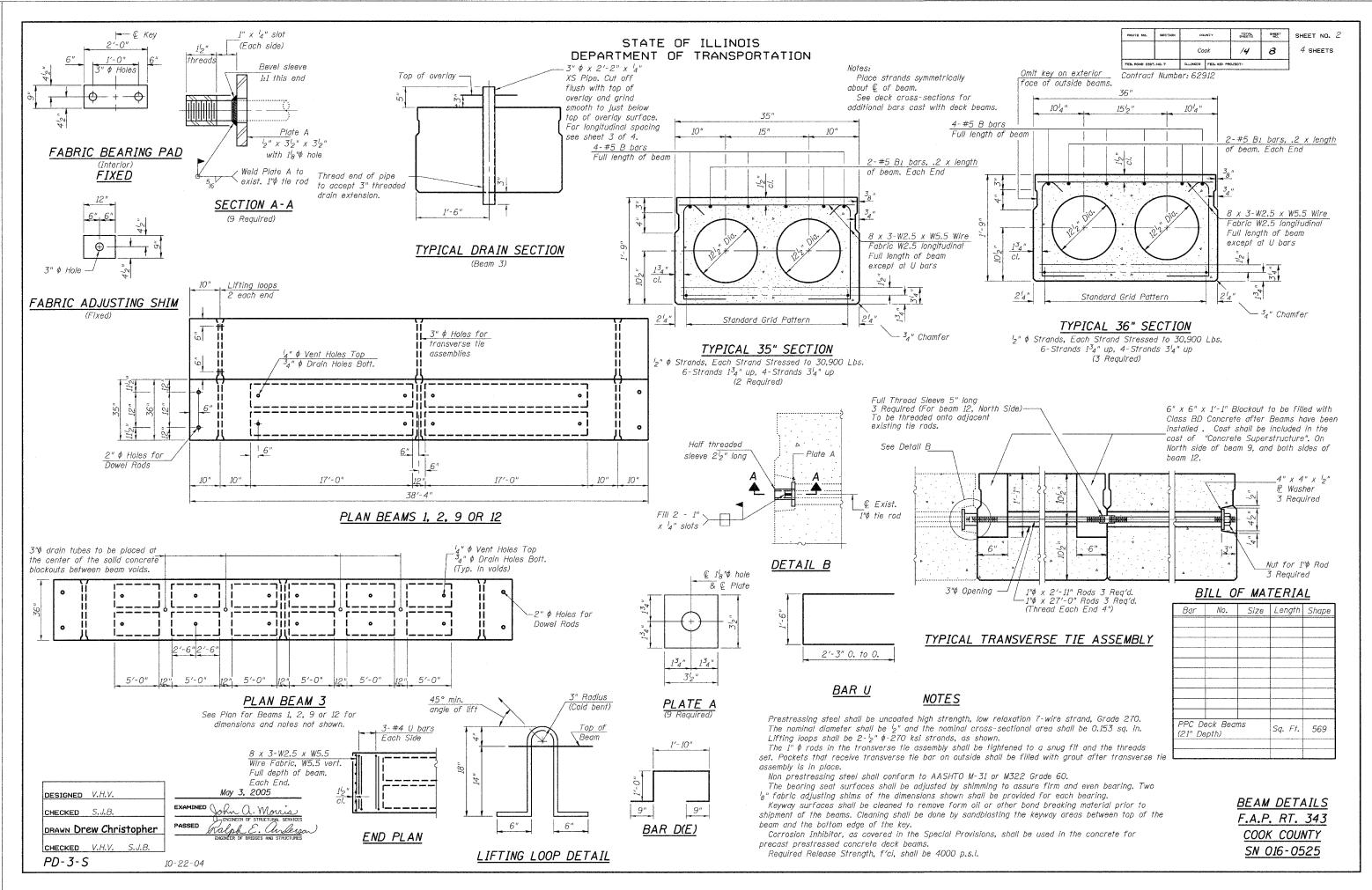
DESIGN STRESSES PRESTRESS UNITS

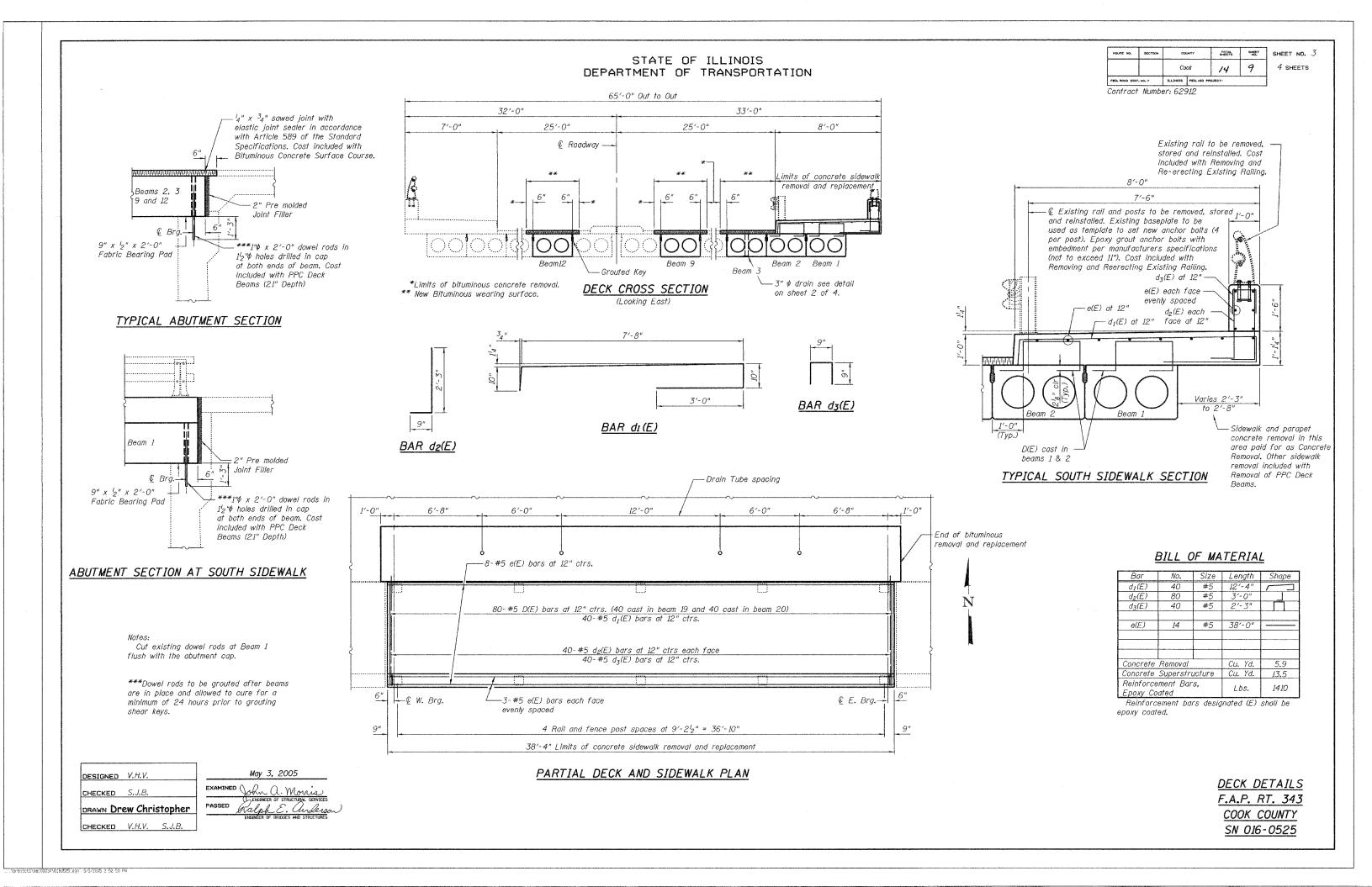
f'c = 5000 psi f'ci = 4000 psi f's = 270000 psi $\binom{l_2}{l}$ fow lax strands) f'si = 201960 psi $\binom{l_2}{l}$ fow lax strands)

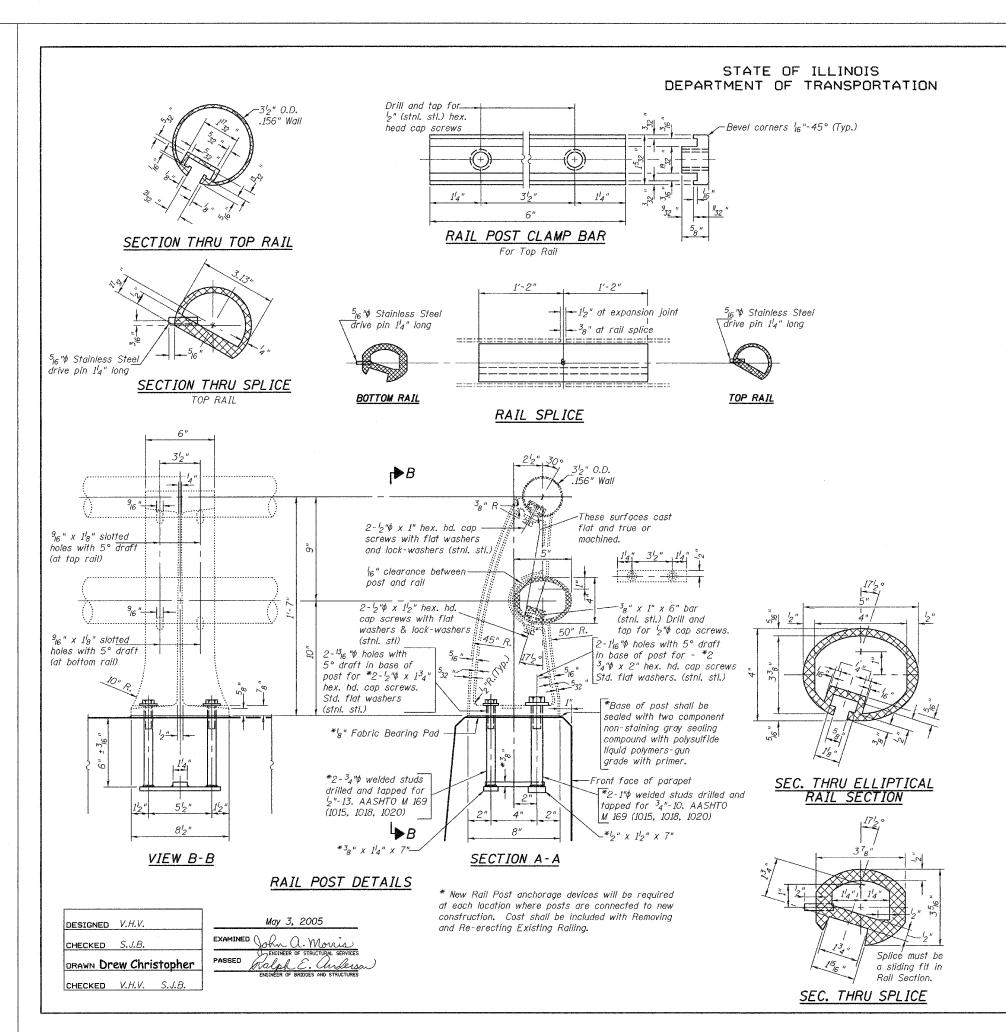
> PLAN AND ELEVATION F.A.P. RT. 343 COOK COUNTY SN 016-0525

PLAN

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SHEET NO. 4
4 SHEETS

Contract Number: 62912

Notes:

All Posts shall be normal to parapet.

All joints in rail shall be spliced per detail.

Provide $1^{-1}8$ " and $2^{-1}16$ " Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.

This work shall be paid for at the contract unit price per foot for Removing and Re-erecting Existing Railing.

Horizontal rail element & rail posts shown are for information only.

F.A.P. RT. 343
COOK COUNTY

SN 016-0525

GENERAL NOTES

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 work.

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 P.P.C. Deck Beams".

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

The top surface of the beams shall be finished in accordance with Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of l_4 ".

Temporary concrete barrier shall only be anchored into the overlay and not the PPC Deck Beams,

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural

Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

For stage construction details see Roadway Plans.

TOTAL BILL OF MATERIAL

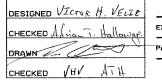
ITEM	UNIT	QUANTITY
Bituminous Concrete Surface Removal	Sq. Yd.	100
Waterproofing Membrane System	Sq. Yd.	305
Removal of Existing PPC Deck Beams	Sq. Ft.	2221
Bituminous Concrete Surface Course, Superpave Mix "D", N 50	Tons	34.3
PC Mortar Fairing Course	Foot	1219
PPC Deck Beams (27" Depth)	Sq. Ft.	2169
Concrete Removal	Cu. Yd.	16.8
Concrete Superstructure	Cu. Yd.	18.7
Protective Coat	Sq. Yd.	72.6
Furnishing and Erecting Structural Steel	Pound	1260
Asbestos Bearing Pad Removal	Each	28
Reinforcement Bars, Epoxy Coated	Pound	2150

DESIGN STRESSES PRESTRESS UNITS

(New Construction) f'c=5000 psi f'ci=4000 psi f's=270,000 (${}^{l}_{2}$ " ϕ low relaxation strands) f'si=201,960 (${}^{1}_{2}$ " ϕ low relaxation strands)

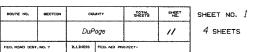


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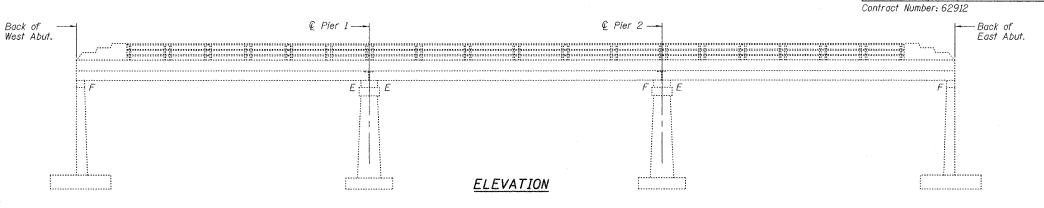


May 3, 2005 EXAMINED John a. Morris ENGINEER OF STRUCTURAL SERVICES Ralph E. anderson PASSED

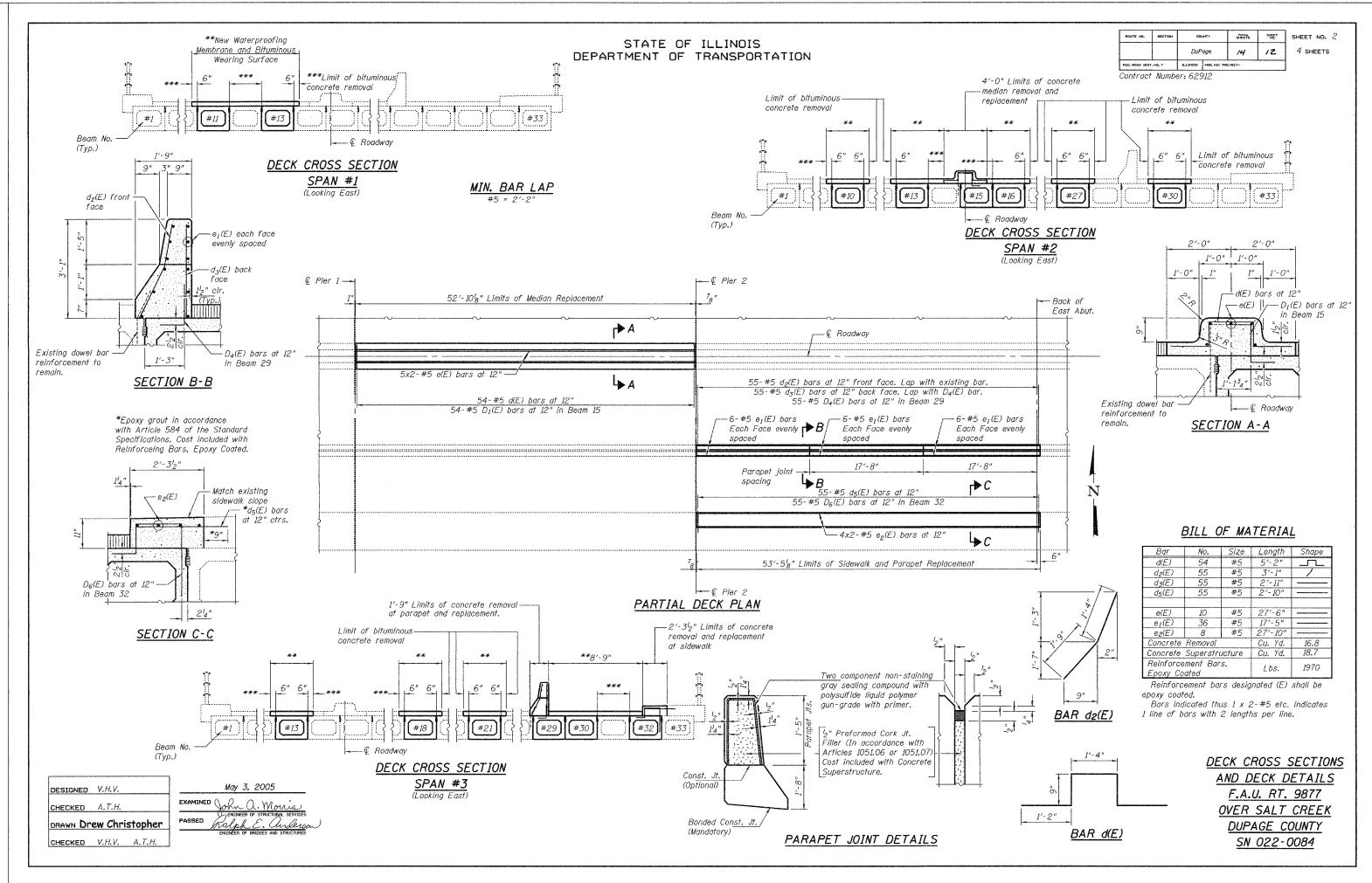
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

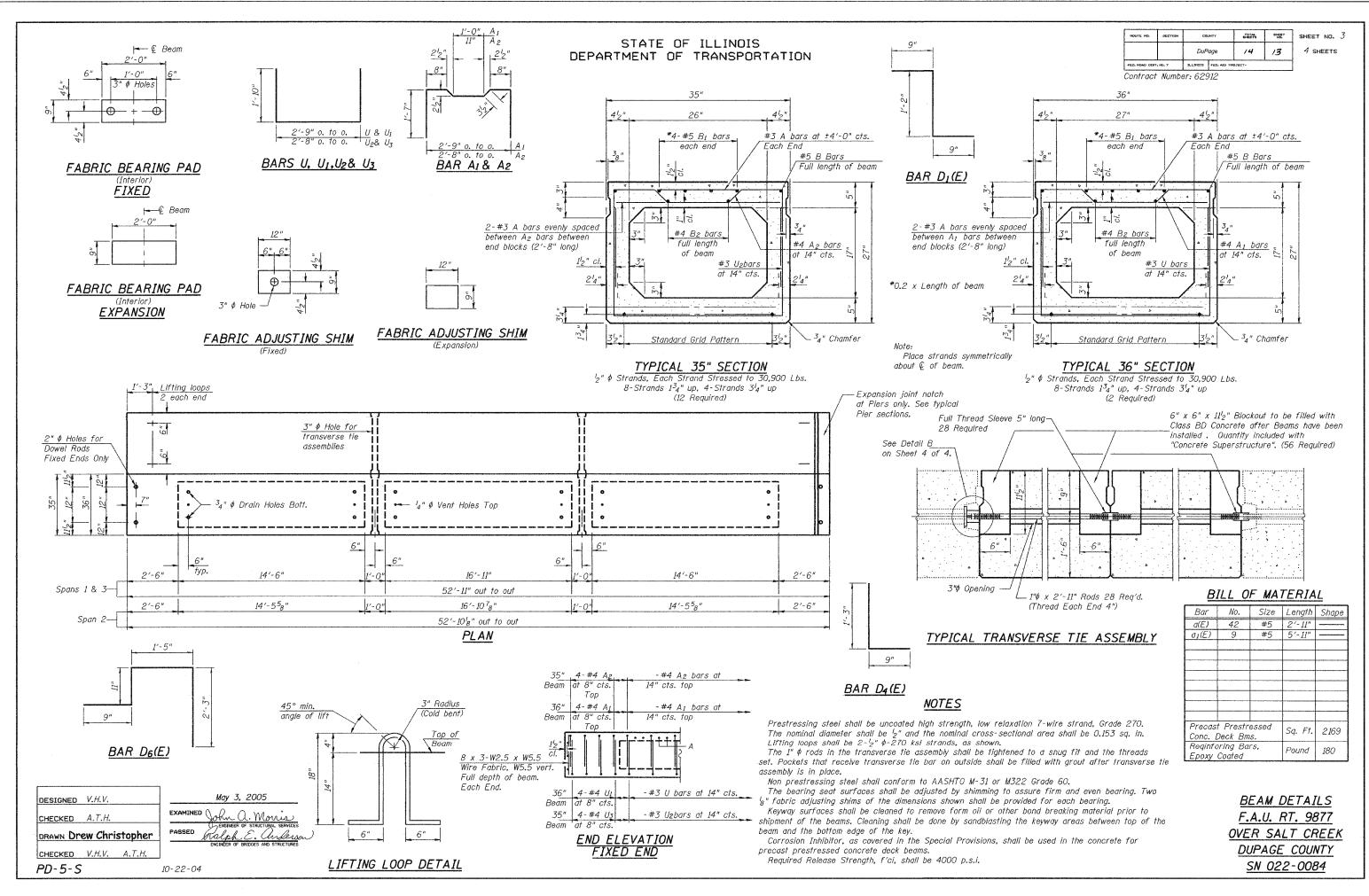


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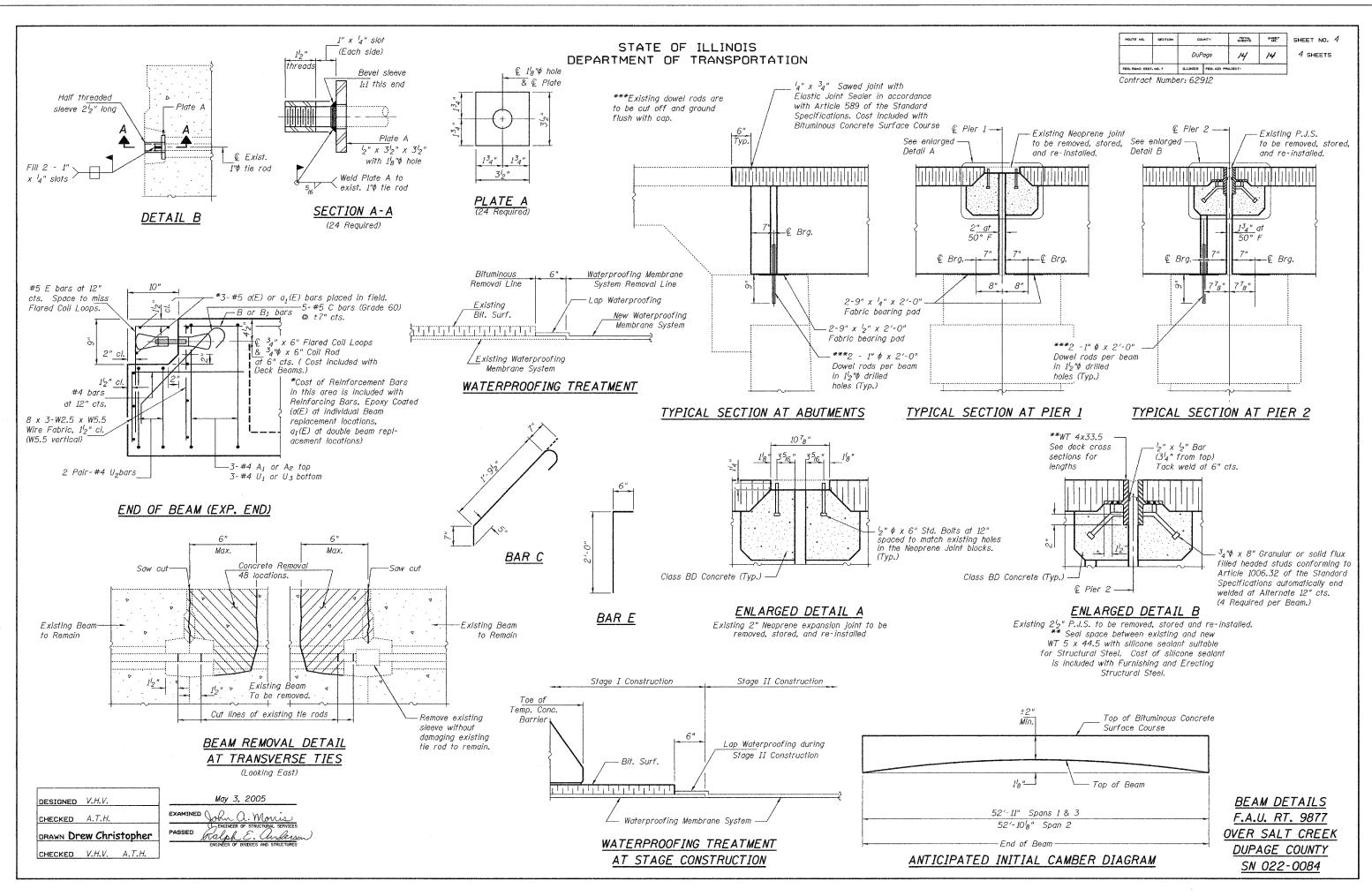


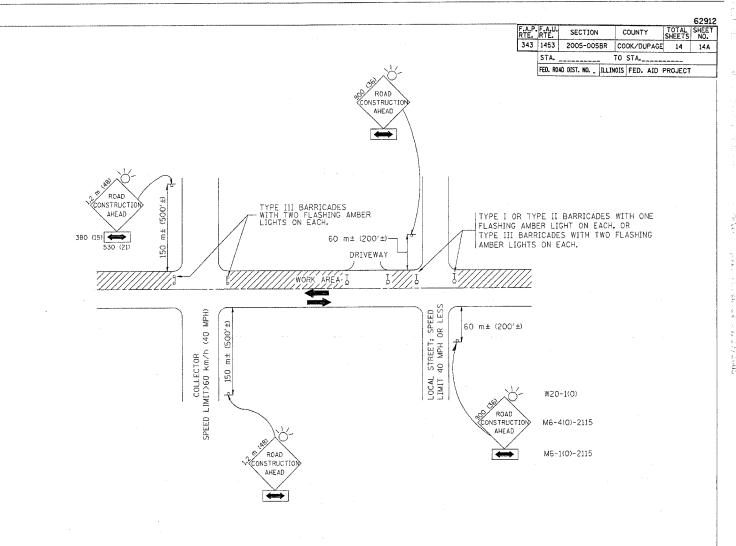
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1 1	Beam 1							N N
	Beam 2							6 PPC Deck Beam spa at 3'-0" = 18'-0' (1962 Construction)
	Beam 3				;		·····	zk E
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	Beam 6							961) 196 136
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	Beam 15				35" Beam			"
at 3	; Beam 16				36" Beam			3,-(
200		Existing tie rods to					;	at
k Beams Roadway	: Beam 18	be cut (Typ.) See details					35" Beam 🚶	Ses
A 3	: Beam 19	on sheet 4 of 4.						Spa
33 PPC Deck	Beam 20						,	Веат
	Beam 21						35" Beam :	
	. Beam 22							Deck
	. Beam 23							7 2
	. Beam 24					Cut existing WT section flush with existing beam		4
	Beam 25		<u>_</u>			prior to beam removal		27
	. Beam 26					// Typical for beam removal		•
	: Beam 27		· · · · · · · · · · · · · · · · · · ·		35" Beam	locations at Pier 2.		
	. Beam 28							
	; Beam 29						35" Beam ;	
	. Beam 30				35" Beam		36" Beam]	
	. Beam 31						,	PLAN AND ELEV
	Beam 32						35" Beam 🚶	F.A.U. RT. 98
<u> </u>	: Beam 33							OVER SALT CR
				PLAN				DUPAGE COUN





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TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- of one road construction ahead sign 900x900 (36x36) With a Flasher and flag mounted on it approximately 60 m (200°) in advance of the main route.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

REVISIO	NS	THE INDIC DEPARTM	ENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DELANTM	ENT OF TRANSFORTATION
LHA	6/89	TRAFFIC CONTR	ROL AND PROTECTION
T. RAMMACHER	09/08/94	THAT IC CONTI	OL AND INOTECTION
J. OBERLE	10/18/95		FOR
A. HOUSEH	03/06/96	CIDE DOADS I	NITEDOCEOTIONS AND
A. HOUSEH	10/15/96	SIDE RUADS, I	INTERSECTIONS, AND
T. RAMMACHER 01/06/00		DRIVEWAYS	
		SCALE: VERT.	DRAWN BY
		DATE 10/18/2002	CHECKED BY

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REVISION DATE: 01/06/00