

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277B	COOK	66	1

D-91-249-99 CONTRACT NO. 62206

PROJECT LOCATED IN UNINCORPORATED COOK COUNTY AND HARVEY.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED IMPROVEMENT: CONSTRUCTION OF 3-TRACK STRUCTURE OVER US ROUTE 6 BETWEEN TWO EXISTING RAILROAD STRUCTURES EAST OF PARK AVENUE

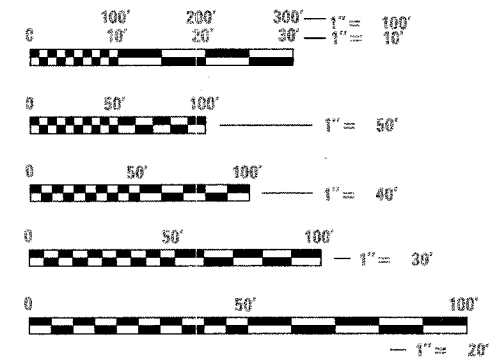
F.A.P. ROUTE 351 (U.S. ROUTE 6 - 159TH STREET)
EAST OF PARK AVE. UNDER THE CANADIAN NAT'L RR BRIDGE
BRIDGE CONSTRUCTION, RAILROAD ROADBED AND RAILROAD TRACK CONSTRUCTION, MAINTENANCE OF TRAFFIC AND ROADWAY REPAIR

DESIGN DESIGNATION
2050(20) ARTERIAL 12.61(PCC-20)

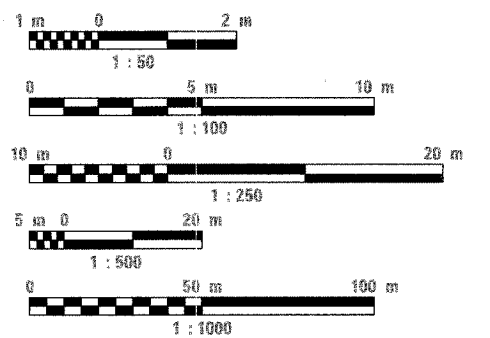
SECTION 3277B
PROJECT: F-0351(015)
COOK COUNTY
C-91-207-01
R 14 E

NOTE: WHEREVER IN THESE PLANS REFERENCE IS MADE TO SECTION '3277R' IT SHALL MEAN 3277B.

ENGLISH SCALES



METRIC RATIOS

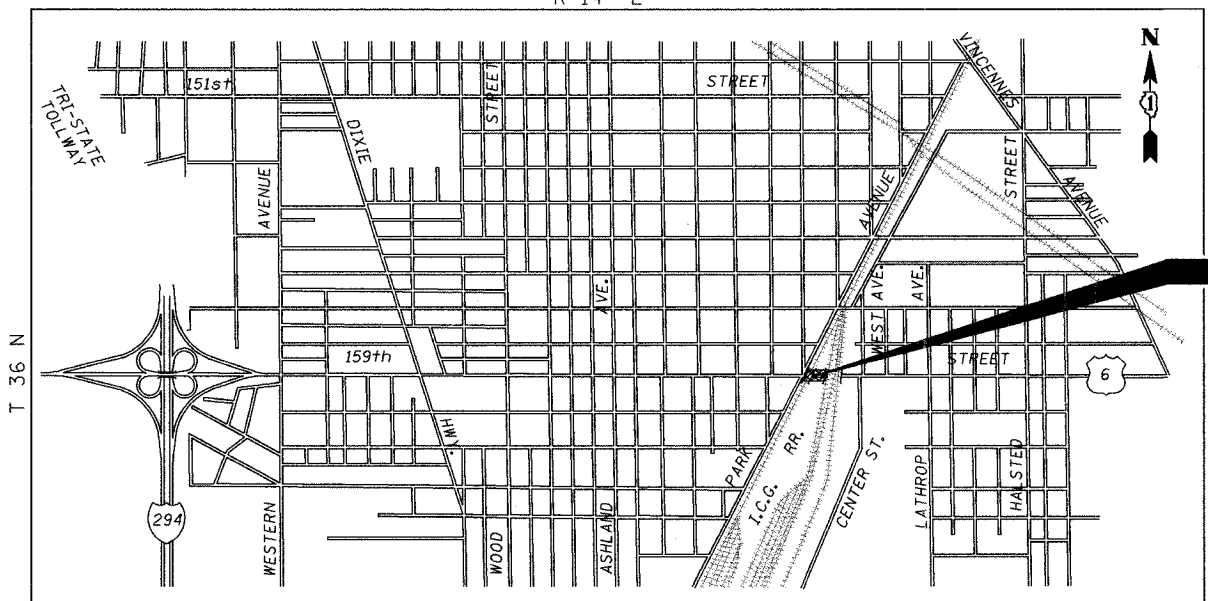


CONSULTANT PROJECT ENGINEER: KURT NAUS - (847) 705-4742

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

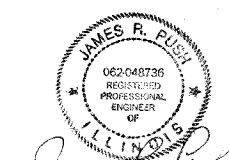
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 62206



GROSS LENGTH = 33.5 METERS (109.9-FEET)
NET LENGTH = 33.5 METERS (109.9-FEET)
LOCATION MAP THORNTON TOWNSHIP

NOTE: PROJECT LENGTH MEASURED FOR ALL WORK WITHIN ROADWAY R.O.W.



JAMES R. PUSH, PE
LICENSE NO. 062-048736
EXPIRES: 11/30/2007
DATE: 03-27-2006
SHEETS-ROADWAY: 1-13



DESIKACHARY V. KANDALLU, PE
LICENSE NO. 062-031975
EXPIRES: 11/30/2006
DATE: 03-27-2006
SHEETS-ELECTRICAL: 14-18

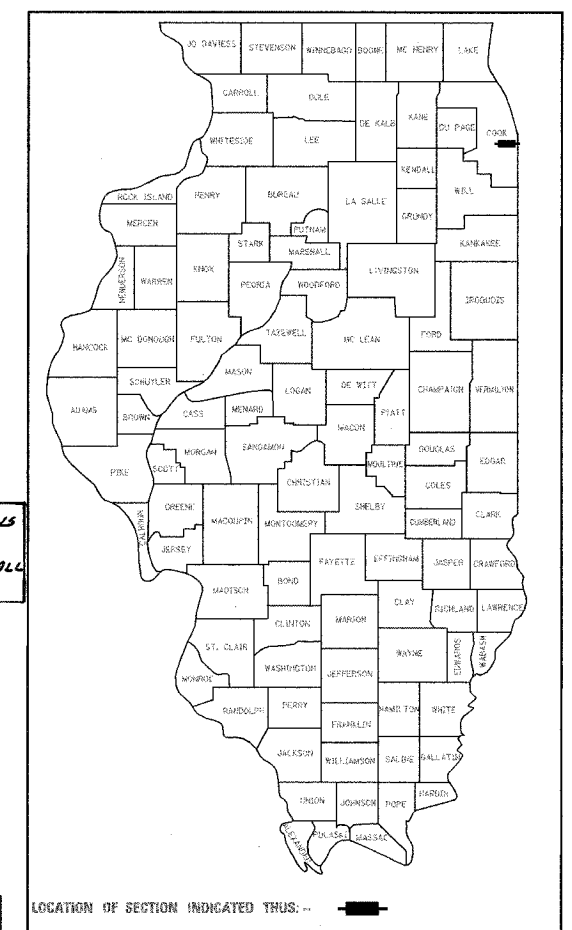


KEITH W. BUNTING, SE
LICENSE NO. 081-004777
EXPIRES: 11/30/2006
DATE: 03-27-2006
SHEETS-STRUCTURAL: 19-50



KEITH W. BUNTING, PE
LICENSE NO. 062-043789
EXPIRES: 11/30/2007
DATE: 03-27-2006
SHEETS-TRACK: 51-66

IMPROVEMENT
STRUCTURE NO.: 016-2754
U.S. ROUTE 6 (159th ST.) STA. 92+24.25 & CN RAILROAD STA. 500+00.00



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: March 31, 2006
Briane M. O'Keefe, PE
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 12, 2006
Mike Wine, PE
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2006
Milton R. Suss, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PLANS PREPARED BY:

URS 100 S. WACKER DR., SUITE 500
CHICAGO, ILLINOIS 60606
TEL. (312) 939-1000
FAX (312) 939-4198

DEI DELTA ENGINEERING, INC.
CONSULTING ENGINEERS, CHICAGO, ILLINOIS.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

80% FED. / 20% STATE CONTRACT NO. 62206

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	80% FED. / 20% STATE CONSTRUCTION TYPE CODE			
				RETAINING WALL & MINOR ROADWAY	RAILROAD BRIDGE OVER ROADWAY	RAILROAD TRACK & RAIL	ROADWAY LIGHTING **
				Y007	X631-5B	J000-5B	Y030-1E
20200100	EARTH EXCAVATION	CU YD	5842			5842	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	1113	299	814		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3870			3870	
25000210	SEEDING, CLASS 2A	ACRE	0.8			0.8	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72			72	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	72			72	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72			72	
25100630	EROSION CONTROL BLANKET	SQ YD	7740			7740	
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	100			100	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80			80	
28000300	TEMPORARY DITCH CHECKS	EACH	13			13	
28000400	PERIMETER EROSION BARRIER	FOOT	732	310		422	
28000500	INLET AND PIPE PROTECTION	EACH	1			1	
28000510	INLET FILTERS	EACH	2	2			
42001100	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	93	93			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2538	2538			
44000100	PAVEMENT REMOVAL	SQ YD	125	125			
44000300	CURB REMOVAL	FOOT	125	125			
44000600	SIDEWALK REMOVAL	SQ FT	2538	2538			
44003100	MEDIAN REMOVAL	SQ FT	125	125			
50102400	CONCRETE REMOVAL	CU YD	182.0		182.0		
50200100	STRUCTURE EXCAVATION	CU YD	1018	528	490		
50300225	CONCRETE STRUCTURES	CU YD	960.6	139.7	820.9		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	170.1		170.1		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1		
50800105	REINFORCEMENT BARS	POUND	18850		18850		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	193470	8800	184670		
51000305	PIPE HANDRAIL, SPECIAL	FOOT	208		208		
51500100	NAME PLATES	EACH	1		1		
54205059	PIPE CULVERTS, SPECIAL 24"	FOOT	62		62		
54213879	STEEL END SECTIONS 24"	EACH	2		2		
NP 55039700	STORM SEWERS TO BE CLEANED	FOOT	160	160			
58000110	MEMBRANE WATERPROOFING (SPECIAL)	SQ FT	5773		5773		
58700200	BRIDGE SEAT SEALER	SQ FT	634		634		

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	80% FED. / 20% STATE CONSTRUCTION TYPE CODE			
				RETAINING WALL & MINOR ROADWAY	RAILROAD BRIDGE OVER ROADWAY	RAILROAD TRACK & RAIL	ROADWAY LIGHTING **
				Y007	X631-5B	J000-5B	Y030-1E
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	361	139	222		
60100915	PIPE DRAINS 6"	FOOT	108	108			
60109582	PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	311	141	170		
60600605	CONCRETE CURB, TYPE B	FOOT	131	131			
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	150	150			
66400570	CHAIN LINK FENCE, 8' (SPECIAL)	FOOT	1248			1248	
66410300	CHAIN LINK FENCE REMOVAL	FOOT	1262			1262	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	357	178	179		
* 66900450	SPECIAL WASTE PLANS AND REPORT	L SUM	1	1			
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
67100100	MOBILIZATION	L SUM	1	1			
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1			
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	380	380			
• 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2			
• 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	112	112			
• 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	25	25			

• DENOTES SPECIALTY ITEM
 ** 100% CITY OF HARVEY
 NP - NON-PARTICIPATING

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 FROM I-294 TO IL RTE 1 SUMMARY OF QUANTITIES
NAME	DATE	
		DRAWN BY VAP CHECKED BY JRP DATE 03/27/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62206

80% FED./20% STATE

CONSTRUCTION TYPE CODE

RETAINING WALL & MINOR ROADWAY	RAILROAD BRIDGE OVER ROADWAY	RAILROAD TRACK & RAIL	ROADWAY LIGHTING **
Y007	X631-5B	J000-5B	Y030-1E

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	URBAN	RETAINING WALL & MINOR ROADWAY	RAILROAD BRIDGE OVER ROADWAY	RAILROAD TRACK & RAIL	ROADWAY LIGHTING **
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1					1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1					1
80700140	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	4					4
80800425	TEMPORARY WOOD POLE, 50 FT., CLASS 4, 15 FT. MAST ARM	EACH	1					1
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	230					230
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	149				149	
81100200	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., GALVANIZED STEEL	FOOT	40					40
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	350					350
81200150	CONDUIT EMBEDDED IN STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT	104			104		
81306100	JUNCTION BOX (SPECIAL)	EACH	4				4	
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	483				253	230
81700120	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 6	FOOT	50					50
81700125	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 4	FOOT	1800					1800
81702500	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4/C NO. 6	FOOT	293				293	
81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	70					70
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	1					1
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	1					1
89501510	RELOCATE EXISTING FLASHING BEACON	EACH	2		2			
X0320870	BRACED EXCAVATION	CU YD	678			678		
X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	8		8			
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12					12
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1720		1720			
X5121800	PERMANENT STEEL SHEET PILING	SQ FT	2280			2280		
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	24		24			
X8210302	PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LUMINAIRES	L SUM	1					1
Z0002400	BALLAST	TON	6099				6099	
Z0002600	BAR SPLICERS	EACH	375		49	326		

80% FED./20% STATE

CONSTRUCTION TYPE CODE

RETAINING WALL & MINOR ROADWAY	RAILROAD BRIDGE OVER ROADWAY	RAILROAD TRACK & RAIL	ROADWAY LIGHTING **
Y007	X631-5B	J000-5B	Y030-1E

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	URBAN	RETAINING WALL & MINOR ROADWAY	RAILROAD BRIDGE OVER ROADWAY	RAILROAD TRACK & RAIL	ROADWAY LIGHTING **
* Z0008236	DRILLED SHAFT IN SOIL 36"	FOOT	241.5			241.5		
* Z0008248	DRILLED SHAFT IN SOIL 48"	FOOT	89.5			89.5		
* Z0008254	DRILLED SHAFT IN SOIL 54"	FOOT	390.0			390.0		
* Z0008330	DRILLED SHAFT IN ROCK 30"	FOOT	42.0			42.0		
* Z0008342	DRILLED SHAFT IN ROCK 42"	FOOT	18.0			18.0		
* Z0008348	DRILLED SHAFT IN ROCK 48"	FOOT	72.0			72.0		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		.2	.5	.3	
NP Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4		4			
Δ Z0030020	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1		1			
Δ Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2		2			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1					1
Z0069800	SUB-BALLAST	TON	7573				7573	
X0325350	CONCRETE DECK REMOVAL	SQ FT	468			468		
X0325347	TEMPORARY BALLAST RETAINER (INSTALLED)	FOOT	66			66		
X0325348	TEMPORARY BALLAST RETAINER (INSTALLED AND REMOVED)	FOOT	104			104		
X0325349	TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY)	FOOT	100		100			
X0325346	RAILROAD TRACK	TR FT	5007				5007	
X0325355	RAILROAD TRACK, REMOVE	TR FT	3309				3309	
X0325354	RAILROAD TRACK SHIFT	EACH	4				4	
X0325351	LIGHTING SERVICE RELOCATION	L SUM	1					1
* XX004353	WATER MAIN RELOCATION	L SUM	1					1
X0325352	PIPE SUPPORT	EACH	11			11		
X0325353	ALIGNMENT GUIDE	EACH	2			2		
* X0325410	CONDUIT, 4" DIA., GALVANIZED STEEL	FOOT	104			104		
⊙ Z0076600	TRAINEES	HOUR	1000		1000			

- * DENOTES SPECIALTY ITEM
- ** 100% CITY OF HARVEY
- Δ SFTY-3N
- NP - NON-PARTICIPATING
- ⊙ - Y080

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
SUMMARY OF QUANTITIES

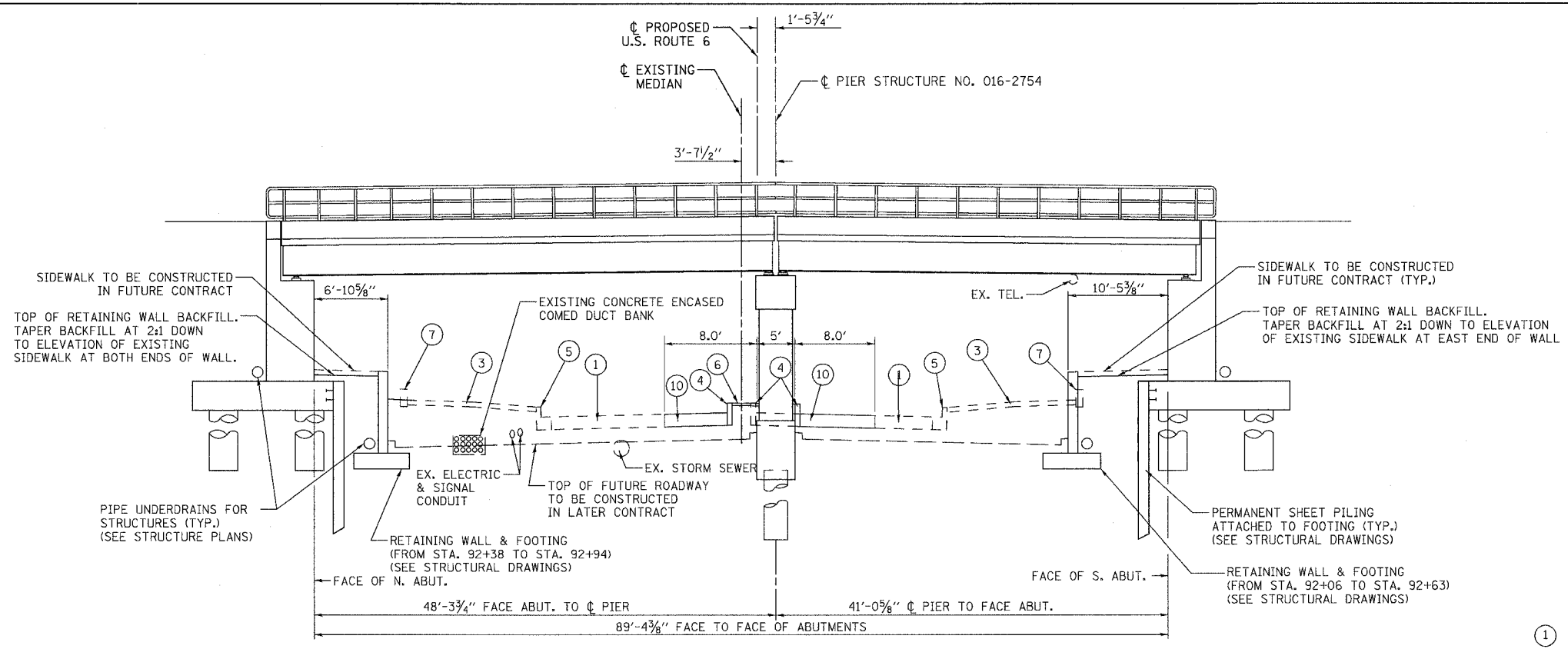
DRAWN BY VAP
CHECKED BY JRP

DATE 03/27/06

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62206



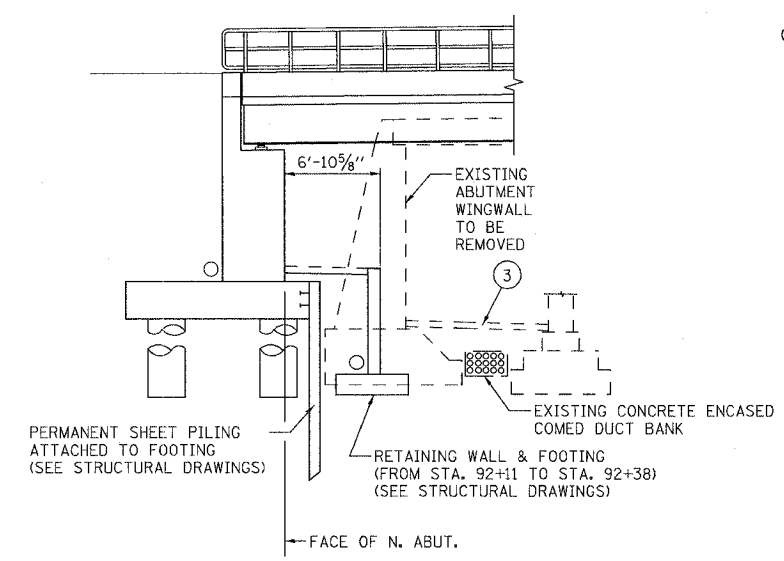
TYPICAL SECTION
US ROUTE 6
EAST OF EXISTING BRIDGE

LEGEND - EXISTING

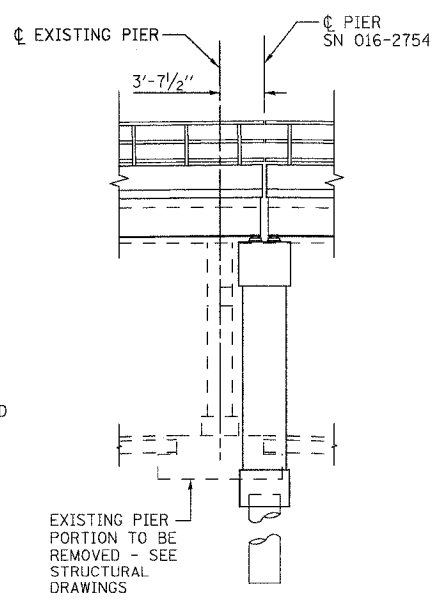
- ① EXIST. P.C.C. PAVEMENT, PORTIONS TO BE REMOVED AND REPLACED FOR PIER CONSTRUCTION *
- ③ EXIST. P.C.C. SIDEWALK TO BE REMOVED AND REPLACED *
- ④ EXIST. 6" CONCRETE CURB TO BE REMOVED AND REPLACED *
- ⑤ EXIST. COMB. CONC. C&G, TY. B-6.12 TO REMAIN
- ⑥ EXIST. CONC. MEDIAN SURFACE 4" TO BE REMOVED AND REPLACED *
- ⑦ EXIST. 3'-0" x 1'-0" RETAINING WALL TO BE REMOVED
- ⑩ HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10"

* SEE "ROADWAY CONSTRUCTION DETAILS" SHEET FOR LIMITS.

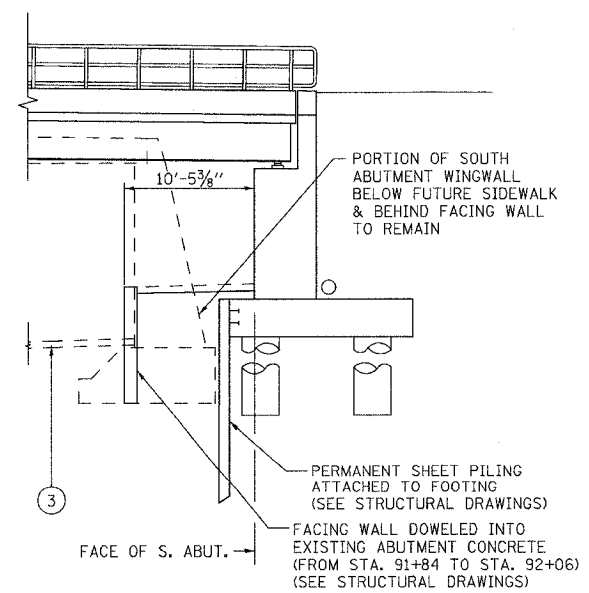
NOTE: ALL ROADWAY PAVEMENT REPLACEMENT SHALL BE MADE WITH:
- HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10"



PARTIAL SECTION ALONG
NORTH SIDE AT EXISTING BRIDGE
ABUTMENT WINGWALL



PARTIAL SECTION ALONG
MEDIAN AT EXISTING BRIDGE
CENTER PIER



PARTIAL SECTION ALONG
SOUTH SIDE AT EXISTING BRIDGE
ABUTMENT WINGWALL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
EXISTING & PROPOSED TYPICAL SECTIONS
US ROUTE 6 AT
STRUCTURE NO. 016-2754
DRAWN BY MAD
CHECKED BY JRP
DATE 03/27/06

BENCHMARKS

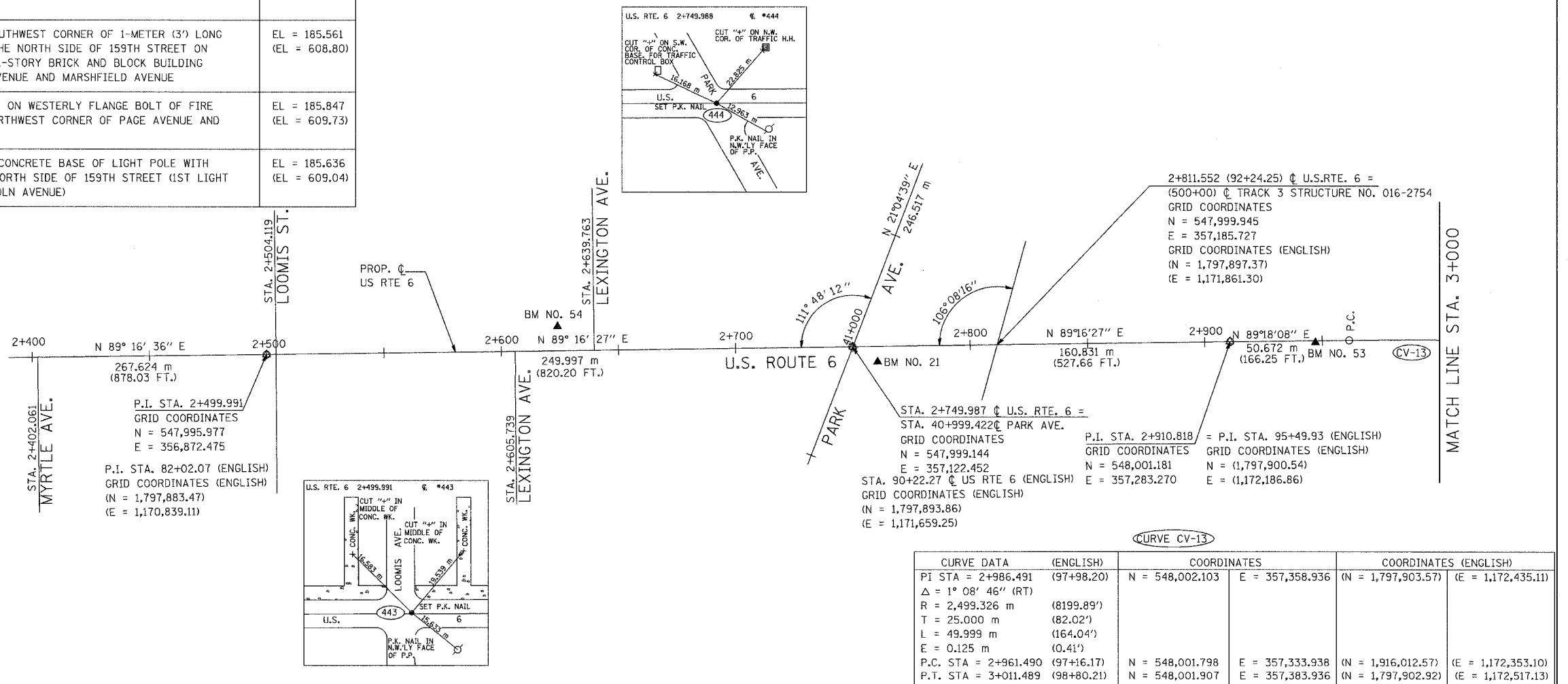
BM NO. 21	SET CROSS CUT ON WALK AT THE SOUTHEAST CORNER OF PARK AVENUE AND 159TH STREET	EL = 183.814 (EL = 603.06)
BM NO. 51	BOX CUT ON THE SOUTHWEST CORNER OF TRAFFIC HANDHOLE AT THE SOUTHEAST CORNER OF CAROL AVENUE AND 159TH STREET	EL = 184.317 (EL = 604.71)
BM NO. 52	CROSS CUT ON WESTERLY FLANGE BOLT ON FIRE HYDRANT AT THE NORTHWEST CORNER OF FINCH AVENUE AND 159TH STREET	EL = 184.897 (EL = 606.62)
BM NO. 53	BOX CUT ON THE SOUTHEASTERLY CORNER OF RAILROAD BRIDGE PIER IN THE C. OF 159TH STREET AT EAST FACE OF BRIDGE APPROX. 30-METERS (100') WEST OF CENTER AVE.	EL = 183.871 (EL = 603.25)
BM NO. 54	CHISELED CROSS ON WESTERLY BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF LEXINGTON AVENUE AND 159TH STREET	EL = 185.274 (EL = 607.85)
BM NO. 55	CHISELED BOX CUT ON SOUTH SIDE OF CONCRETE BASE FOR MAST ARM LIGHT POLE ON THE NORTH SIDE OF 159TH ST. ON EAST BACK OF CURB OF GAUGER AVENUE EXTENDED NORTH	EL = 185.441 (EL = 608.40)
BM NO. 56	CHISELED CROSS ON WESTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF ASHLAND AVENUE AND 159TH STREET	EL = 185.600 (EL = 608.92)
BM NO. 57	SET BOX CUT ON SOUTHWEST CORNER OF 1-METER (3') LONG GARAGE APRON ON THE NORTH SIDE OF 159TH STREET ON THE WEST FACE OF 1-STORY BRICK AND BLOCK BUILDING BETWEEN PAULINA AVENUE AND MARSHFIELD AVENUE	EL = 185.561 (EL = 608.80)
BM NO. 58	SET CHISELED CROSS ON WESTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF PAGE AVENUE AND 159TH STREET	EL = 185.847 (EL = 609.73)
BM NO. 59	SET CUT CROSS ON CONCRETE BASE OF LIGHT POLE WITH MAST ARM ON THE NORTH SIDE OF 159TH STREET (1ST LIGHT POLE WEST OF LINCOLN AVENUE)	EL = 185.636 (EL = 609.04)

BM NO. 60	BOX CUT ON SOUTHWEST CORNER OF CONCRETE BASE OF TRAFFIC SIGNAL LIGHT ON THE NORTHEAST CORNER OF DIXIE HIGHWAY AND 159TH STREET	EL = 185.715 (EL = 609.30)
BM NO. 62	CHISELED CROSS ON THE NORTHERLY BOLT OF FIRE HYDRANT ON THE NORTH SIDE OF 159TH STREET AND +/- CENTER LINE OF CLAREMONT AVENUE EXTENDED	EL = 186.295 (EL = 611.20)
BM NO. 63	CHISELED CROSS ON SOUTHWESTLY BOLT ON FLANGE OF 1ST FIRE HYDRANT NORTH OF 1ST ALLEY SOUTH OF 157TH STREET ON THE EAST SIDE OF WEST AVENUE	EL = 184.791 (EL = 606.27)
BM NO. 65	BOX CUT ON TOP OF 0.45 m (18") RCP FLARED END SECTION ON THE SOUTH SIDE OF ENTRANCE TO (ALIED-TUBE CONDUIT) GATE 2 ON THE EAST SIDE OF CENTER STREET	EL = 184.896 (EL = 606.61)

NOTE: DIMENSIONS AND ELEVATION IN BRACKETS "()" ARE IN ENGLISH UNITS OF MEASURE.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	6
STA. 2+390		TO STA. 3+000		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62206



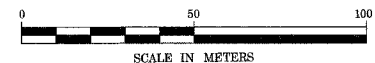
CURVE DATA (ENGLISH)	COORDINATES		COORDINATES (ENGLISH)	
PI STA = 2+986.491 (97+98.20)	N = 548,002.103	E = 357,358.936	(N = 1,797,903.57)	(E = 1,172,435.11)
$\Delta = 1^\circ 08' 46''$ (RT)				
R = 2,499.326 m (8199.89')				
T = 25.000 m (82.02')				
L = 49.999 m (164.04')				
E = 0.125 m (0.41')				
P.C. STA = 2+961.490 (97+16.17)	N = 548,001.798	E = 357,333.938	(N = 1,916,012.57)	(E = 1,172,353.10)
P.T. STA = 3+011.489 (98+80.21)	N = 548,001.907	E = 357,383.936	(N = 1,797,902.92)	(E = 1,172,517.13)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
 ALIGNMENT, TIES AND
 BENCHMARKS
 STA. 2+390 TO STA. 3+000

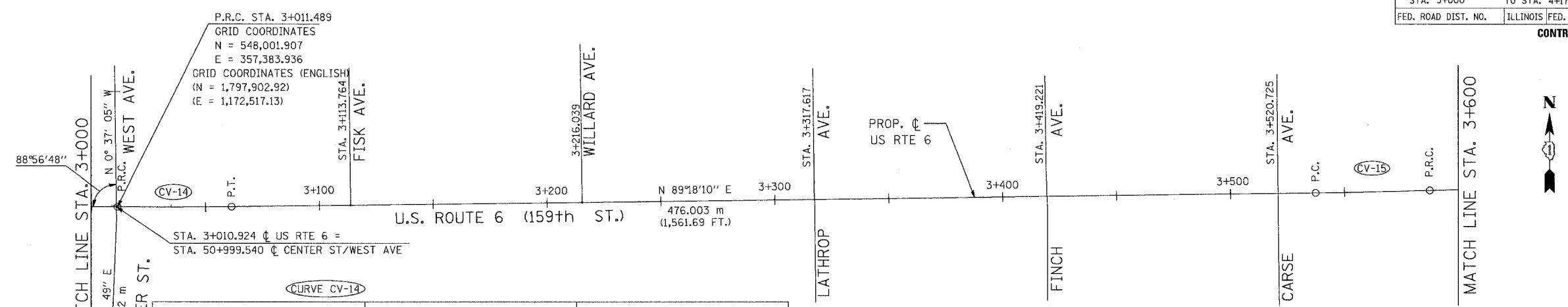
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DATE 03/27/06



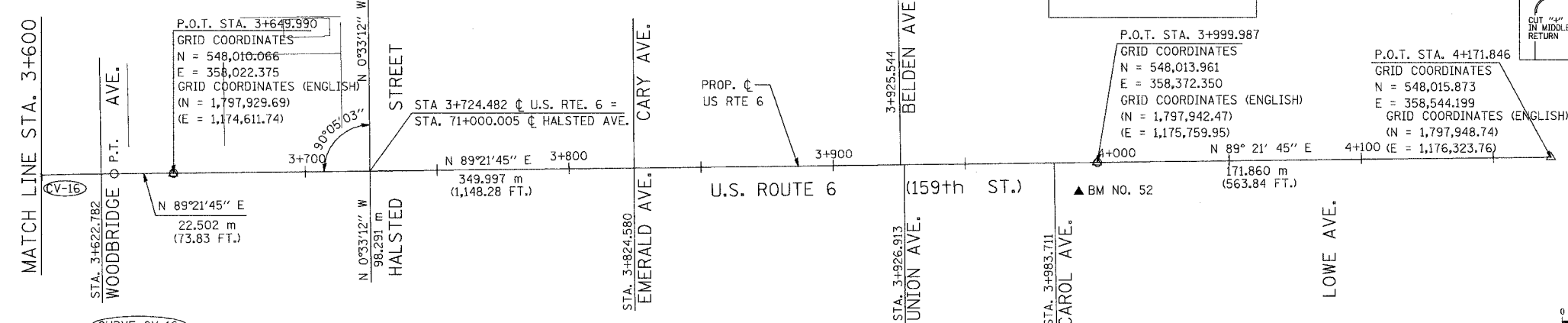
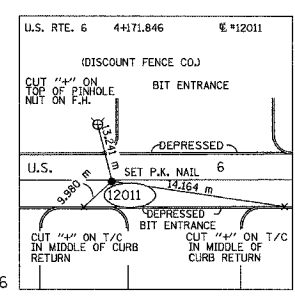
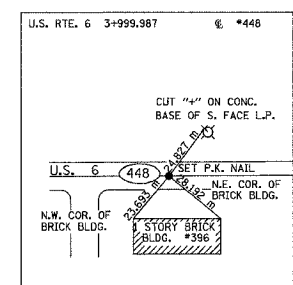
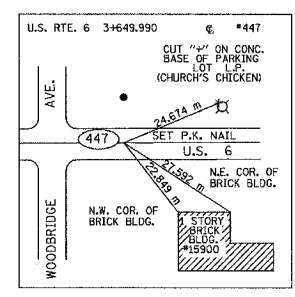
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	7
STA. 3+000		TO STA. 4+171.846		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62206

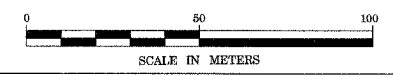


CURVE DATA (ENGLISH)		COORDINATES		COORDINATES (ENGLISH)	
PI STA = 3+036.489	99+62.23)	N = 548,001.712	E = 357,408.935	(N = 1,916,012.28)	(E = 1,172,599.15)
$\Delta = 1^\circ 08' 45''$ (LT)					
R = 2,499.907 m	(8201.79')				
T = 25.000 m	(82.02')				
L = 49.998 m	(164.04')				
E = 0.125 m	(0.41')				
P.C. STA = 3+011.489	(98+80.21)	N = 548,001.907	E = 357,383.936	(N = 1,916,012.92)	(E = 1,172,517.13)
P.T. STA = 3+061.487	(100+44.25)	N = 548,002.016	E = 357,433.933	(N = 1,916,013.28)	(E = 1,172,681.16)

CURVE DATA		COORDINATES		COORDINATES (ENGLISH)	
PI STA = 3+562.491		N = 548,008.113	E = 357,934.899	(N = 1,797,923.28)	(E = 1,174,324.75)
$\Delta = 1^\circ 11' 16''$ (LT)					
R = 2,411.904 m					
T = 25.000 m					
L = 49.999 m					
E = 0.130 m					
P.C. STA = 3+537.490		N = 548,007.809	E = 357,909.901	(N = 1,797,922.29)	(E = 1,174,242.73)
P.T. STA = 3+587.489		N = 548,008.935	E = 357,959.886	(N = 1,797,925.98)	(E = 1,174,406.73)



PROP. CURVE C-1000	COORDINATES		COORDINATES (ENGLISH)	
PI STA = 3+607.489	N = 548,009.593	E = 357,979.875	(N = 1,797,928.14)	(E = 1,174,472.31)
$\Delta = 1^\circ 14' 51''$ (RT)				
R = 1,837.125 m				
T = 20.000 m				
L = 39.998 m				
E = 0.109 m				
P.C. STA = 3+587.489	N = 548,008.935	E = 357,959.886	(N = 1,797,925.98)	(E = 1,174,406.73)
P.T. STA = 3+627.487	N = 548,009.816	E = 357,999.874	(N = 1,797,928.87)	(E = 1,174,537.92)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
 ALIGNMENT, TIES AND
 BENCHMARKS
 STA. 3+000 TO STA. 4+171.846

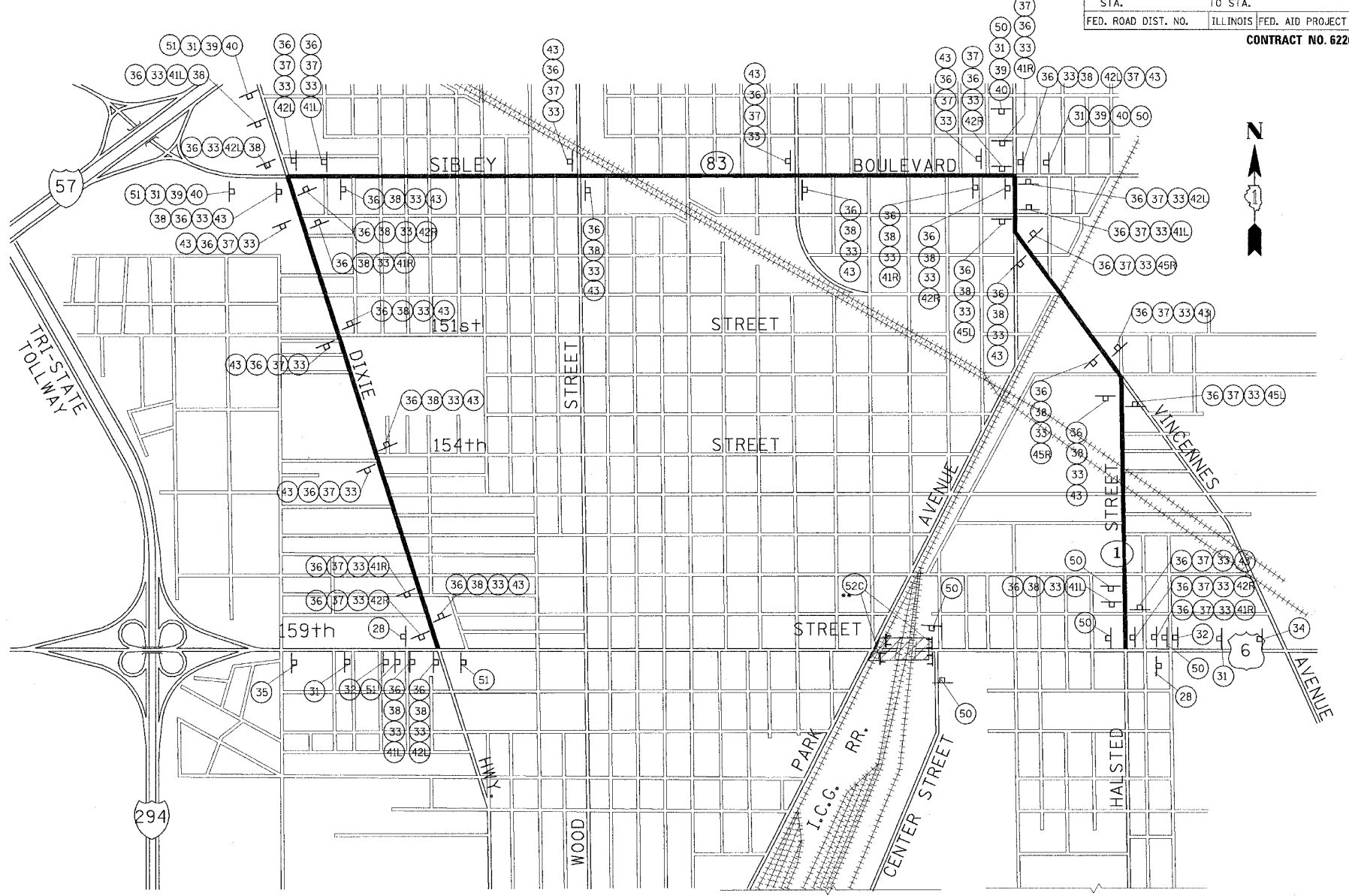
DATE 03/27/06

DRAWN BY VAP
 CHECKED BY JRP

NOTE: DIMENSIONS AND ELEVATION IN BRACKETS "()" ARE IN ENGLISH UNITS OF MEASURE.

SIGN LEGEND

END DETOUR 28 M4-6 24" x 12" (600mm x 300mm)	DETOUR 30L 30R M4-10 L OR M4-10 R 48" x 18" (1200mm x 450mm)	DETOUR AHEAD 31 W20-2 48" x 48" (1200mm x 1200mm)	DETOUR 500 FT 32 W20-2 48" x 48" (1200mm x 1200mm)
33 M1-4 24" x 24" (600mm x 600mm)	ROAD CLOSED TO WIDE LOADS 0.5 MILES AHEAD 34 60" x 30" (1500mm x 750mm)	ROAD CLOSED TO WIDE LOADS 0.5 MILES AHEAD 34C 60" x 30" (1500mm x 750mm)	
ROAD CLOSED TO WIDE LOADS 1.5 MILES AHEAD 35 60" x 30" (1500mm x 750mm)	ROAD CLOSED TO WIDE LOADS 1.5 MILES AHEAD 35C 60" x 30" (1500mm x 750mm)	WIDE LOAD DETOUR 36 60" x 12" (1500mm x 300mm)	DETOUR 36C 24" x 12" (600mm x 300mm)
WEST 37 M3-4 24" x 12" (600mm x 300mm)	EAST 38 M3-2 24" x 12" (600mm x 300mm)	U.S. 6 39 W17-1100 30" x 12" (750mm x 300mm)	
159th ST. 40 W17-1100 30" x 12" (750mm x 300mm)	41L 41R M5-1L OR M5-1R 21" x 15" (525mm x 375mm)	42L 42R M6-1L OR M6-1R 21" x 15" (525mm x 375mm)	
43 M6-3 21" x 15" (525mm x 375mm)	44L 44R M6-6L OR M6-6R 21" x 15" (525mm x 375mm)	45L 45R M5-2L OR M5-2R 21" x 15" (525mm x 375mm)	



DETOUR ROUTE, WITH SIGNAGE

159th STREET CLOSED TO WIDE LOADS WEST OF CENTER ST. 50 R11-3a 60" x 30" (1500mm x 750mm)	159th STREET CLOSED TO WIDE LOADS WEST OF CENTER ST. 50C R11-3a 60" x 30" (1500mm x 750mm)	159th STREET CLOSED TO WIDE LOADS EAST OF PARK AVE. 51 R11-3a 60" x 30" (1500mm x 750mm)	159th STREET CLOSED TO WIDE LOADS EAST OF PARK AVE. 51C R11-3a 60" x 30" (1500mm x 750mm)	ROAD CLOSED 52C R11-2 48" x 30" (1200mm x 750mm)

LEGEND

	TEMPORARY TRAFFIC ADVISORY SIGN
	SIGN LEGEND NUMBER (SEE SIGN LEGEND FOR SIGNS AND CORRESPONDING NUMBERS)
	CONSTRUCTION WORK ZONE
	APPROVED DETOUR ROUTE

NOTE:
ALL DETOUR SIGNS AND BARRICADES SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR".

* NOTE: SIGNS 34, 35, 36, 50 AND 51 SHALL BE REPLACED WITH SIGNS 34C, 35C, 36C, 50C AND 51C, RESPECTIVELY, DURING PERIODS OF PERMITTED ROAD CLOSURE OF U.S. ROUTE 6 (159TH STREET).

* NOTE: SIGNS 52C SHALL ONLY BE PLACED ON TYPE III BARRICADES DURING PERIODS OF PERMITTED ROAD CLOSURE OF U.S. ROUTE 6 (159TH STREET).

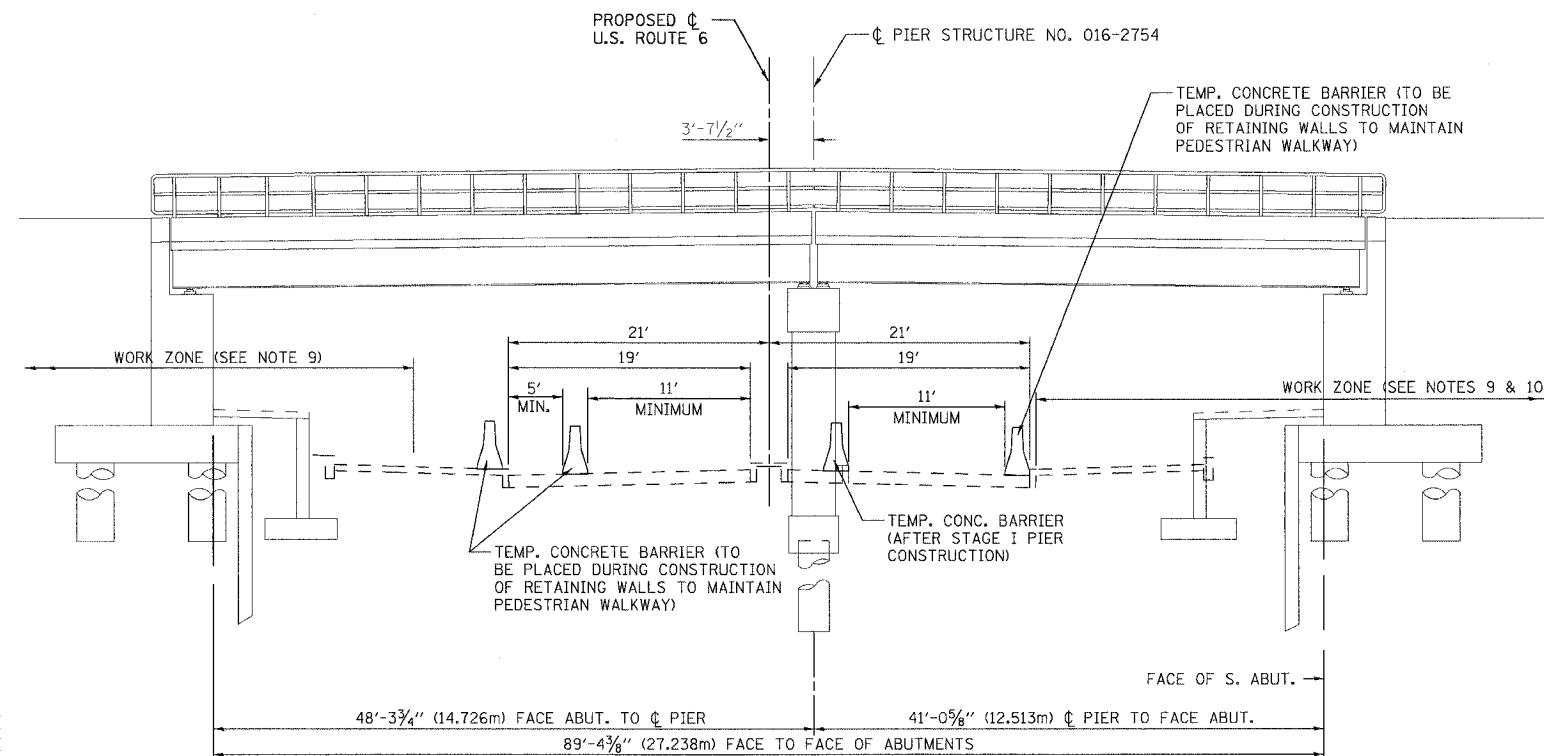
REVISIONS	
NAME	DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62206

GENERAL NOTES FOR TRAFFIC CONTROL

1. ALL THE TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED.
2. THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS FOR HIS CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CONTRACTOR-PROPOSED TRAFFIC CONTROL PLANS SHALL BE SUBMITTED FOR THE WRITTEN APPROVAL OF THE ENGINEER.
3. THE INTENT OF THIS PROJECT IS TO KEEP U.S. ROUTE 6 (159TH STREET) OPEN TO TRAFFIC. FOR THIS PURPOSE, A WIDE LOAD DETOUR SHALL BE IN PLACE FOR THE DURATION OF CONSTRUCTION ACTIVITIES FOR THIS PROJECT. TO FACILITATE CONSTRUCTION, THE CONTRACTOR WILL BE PERMITTED TO CLOSE U.S. ROUTE 6 (159TH STREET) BETWEEN PARK AVENUE AND CENTER STREET DURING TWO SEPARATE STAGES OF WORK FOR THE CONSTRUCTION OF THE CENTER PIER OF STRUCTURE 016-2754. THE SAME DETOUR ROUTE AS THE WIDE LOAD DETOUR SHALL BE USED FOR ALL TRAFFIC DURING THESE TWO CLOSURES.
 - A. DURING THE CENTER PIER CONSTRUCTION STAGE I, THE CONTRACTOR WILL BE PERMITTED TO CLOSE U.S. ROUTE 6 (159TH STREET) FOR A MAXIMUM PERIOD OF 32 CONSECUTIVE CALENDAR DAYS TO FINISH ALL WORK ASSOCIATED WITH STAGE I CONSTRUCTION. THE ROAD MUST BE REOPENED TO TRAFFIC ONCE THE STAGE I CENTER PIER WORK IS COMPLETED EVEN IF THE 32 DAY TIME PERIOD HAS NOT EXPIRED.
 - B. DURING THE CENTER PIER CONSTRUCTION STAGE II, THE CONTRACTOR WILL BE PERMITTED TO CLOSE U.S. ROUTE 6 (159TH STREET) FOR A MAXIMUM PERIOD OF 20 CONSECUTIVE CALENDAR DAYS TO FINISH ALL WORK ASSOCIATED WITH STAGE II CONSTRUCTION. THE ROAD MUST BE REOPENED TO TRAFFIC ONCE THE STAGE II CENTER PIER WORK IS COMPLETED EVEN IF THE 20 DAY TIME PERIOD HAS NOT EXPIRED.
4. IN ADDITION TO THE TWO PERIODS ALLOWED FOR COMPLETE CLOSURES, IF EITHER THROUGH LANE OF U.S. ROUTE 6 (159TH STREET) MUST BE CLOSED AT ANY TIME DUE TO CONSTRUCTION, IT MAY BE CLOSED FOR SHORT DURATIONS DURING NON-PEAK TRAFFIC HOURS, NOT TO EXCEED 15-MINUTES IN LENGTH. PEAK TRAFFIC HOURS ARE CONSIDERED TO BE MONDAY THROUGH FRIDAY (6:30 AM TO 9:00 AM) AND (3:30 PM TO 6:00 PM). THESE CLOSURES MUST BE APPROVED IN WRITING BY THE ENGINEER.
5. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.
6. REMOVE ANY EXISTING PAVEMENT MARKINGS AS REQUIRED IF IN CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL AND PROTECTION AS SHOWN ON THE PLANS.
7. TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 SHALL BE PLACED WHERE THE ACTIVE TRAVEL LANE IS ADJACENT TO A DROP-OFF OF 3-FOOT OR GREATER, AND AT LOCATIONS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS.
8. THE CONTRACTOR SHALL PROVIDE TWO CHANGEABLE MESSAGE SIGNS (ONE AT EACH END OF THE CONSTRUCTION ZONE ON U.S. ROUTE 6 (159TH STREET)) THAT WILL OPERATE THROUGHOUT THE DURATION OF THE PROJECT. ADVANCE NOTICE OF ANY SHIFT IN TRAFFIC PATTERNS OR ROAD CLOSURES MUST BE PROVIDED WITH THE CHANGEABLE MESSAGE SIGNS TWO (2) CALENDAR WEEKS PRIOR TO THE TRAFFIC PATTERN CHANGE.
9. ALL TRAFFIC CONTROL ITEMS FOR THIS PROJECT NOT HAVING A SPECIFIC PAY ITEM SHALL BE CONSIDERED AS INCLUDED WITHIN THE PAY ITEMS OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" AND "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR". THE FURNISHING, INSTALLATION, RELOCATION AND REMOVAL OF ALL TRAFFIC CONTROL SIGNS AND TRAFFIC CONTROL DEVICES SHOWN ON THESE STAGE CONSTRUCTION AND MAINTENANCE OF TRAFFIC PLANS AND THE APPLICABLE IDOT TRAFFIC CONTROL STANDARDS WILL BE INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" AND "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR". THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL SIGNS AS REQUIRED BY THE ENGINEER, THE COST OF WHICH WILL ALSO BE INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
 - "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" MEASURED AND PAID AS A LUMP SUM UNIT OF WORK SHALL INCLUDE ALL FURNISHING, INSTALLATION, MAINTENANCE, RELOCATION, AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE SPECIAL PROVISIONS, THE STANDARD SPECIFICATIONS AND THESE PLANS.
 - "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR" MEASURED AND PAID FOR AS EACH SHALL INCLUDE ALL SIGNING FOR TRAFFIC THAT IS ROUTED OVER THE DETOUR ROUTE. THIS ITEM WILL BE CONSIDERED AS A SINGLE UNIT OF EACH FOR THE ENTIRE DURATION OF THE CONTRACT.
10. SIDEWALK ALONG THE SOUTH SIDE U.S. ROUTE 6 (159TH STREET) MAY BE CLOSED BETWEEN PARK AVENUE AND CENTER STREET IN ACCORDANCE WITH ALL APPLICABLE DETAILS OF STANDARD 701801 "LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE", THE COST OF WHICH WILL ALSO BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION (SPECIAL)". A 5-FOOT MINIMUM CLEAR WIDTH SIDEWALK SHALL BE MAINTAINED ALONG THE NORTH SIDE OF U.S. ROUTE 6 (159TH STREET) AT ALL TIMES.

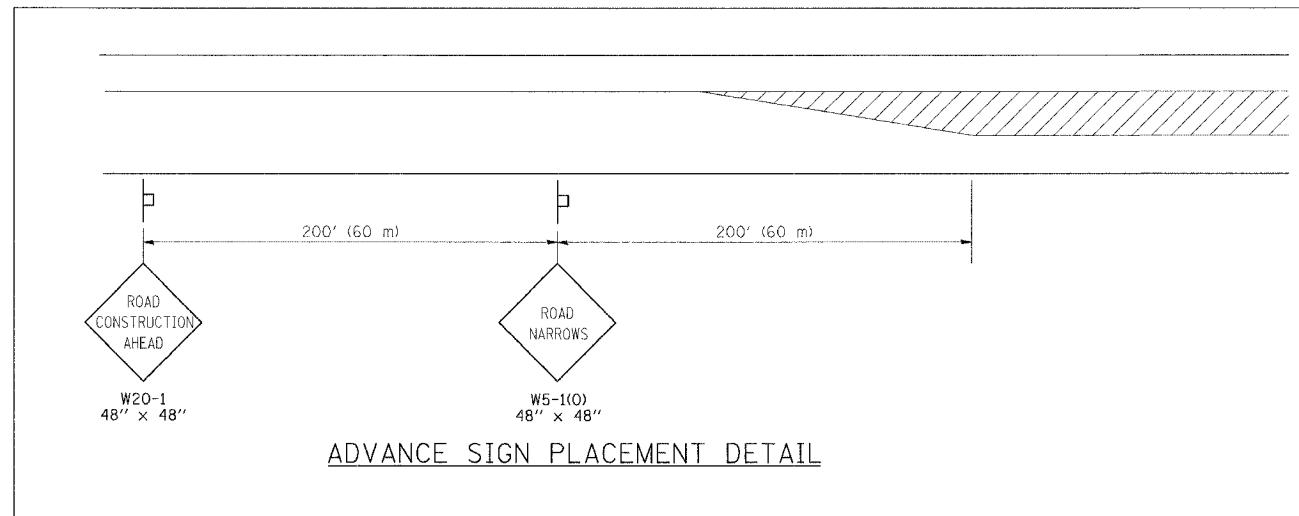


TYPICAL SECTION
MAINTENANCE OF TRAFFIC

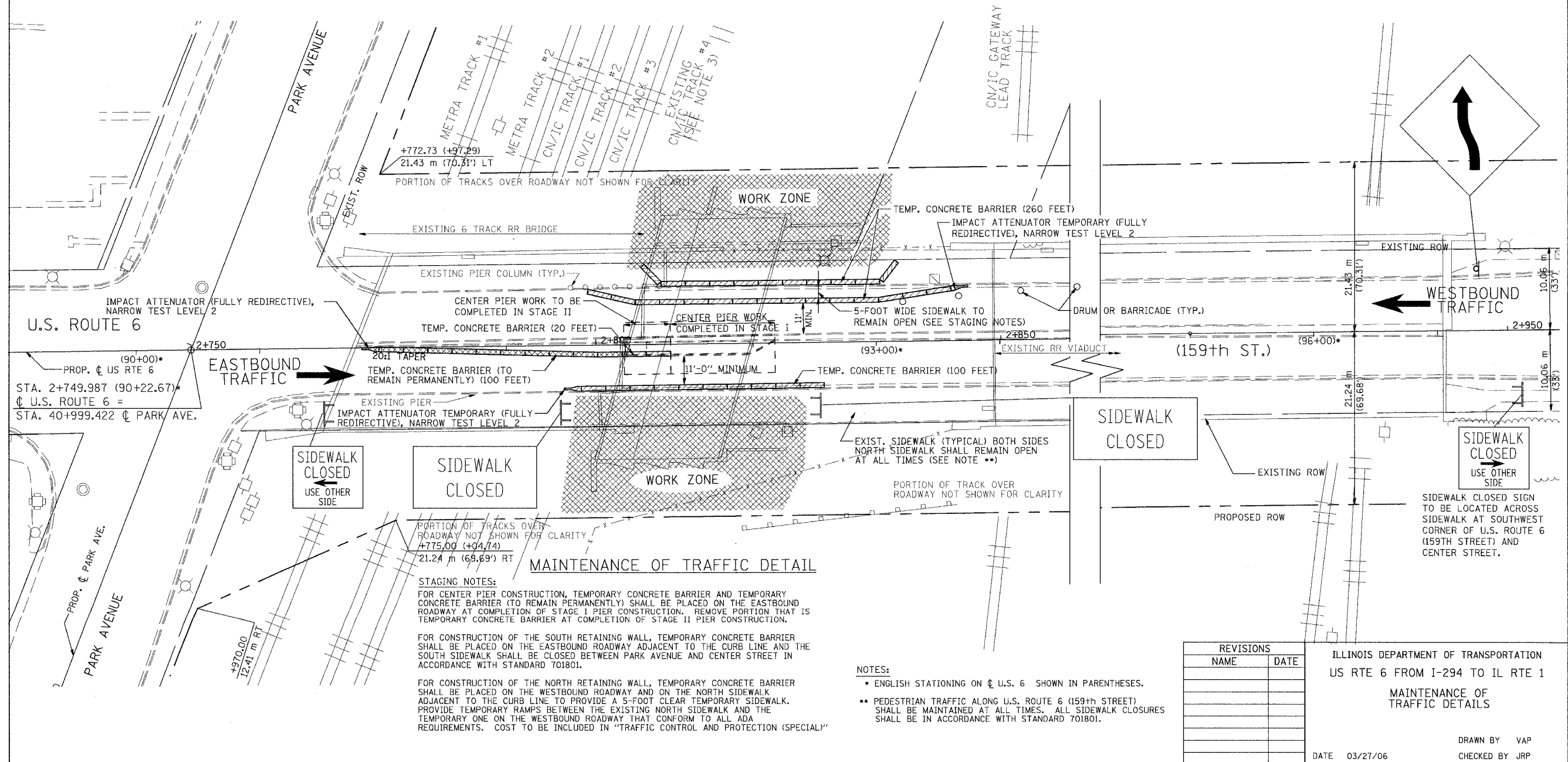
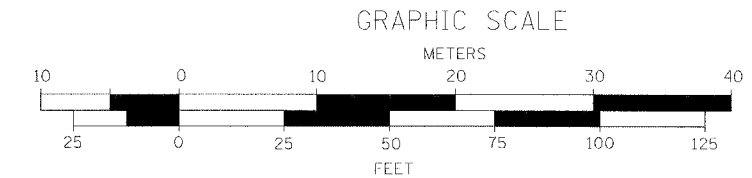
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 FROM I-294 TO IL RTE 1 MAINTENANCE OF TRAFFIC TYPICAL SECTION & GENERAL NOTES
NAME	DATE	
		DRAWN BY VAP CHECKED BY JRP DATE 03/27/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	10
STA. 2+750		TO STA. 2+900		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62206



ADVANCE SIGN PLACEMENT DETAIL



MAINTENANCE OF TRAFFIC DETAIL

STAGING NOTES:
 FOR CENTER PIER CONSTRUCTION, TEMPORARY CONCRETE BARRIER AND TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY) SHALL BE PLACED ON THE EASTBOUND ROADWAY AT COMPLETION OF STAGE I PIER CONSTRUCTION. REMOVE PORTION THAT IS TEMPORARY CONCRETE BARRIER AT COMPLETION OF STAGE II PIER CONSTRUCTION.
 FOR CONSTRUCTION OF THE SOUTH RETAINING WALL, TEMPORARY CONCRETE BARRIER SHALL BE PLACED ON THE EASTBOUND ROADWAY ADJACENT TO THE CURB LINE AND THE SOUTH SIDEWALK SHALL BE CLOSED BETWEEN PARK AVENUE AND CENTER STREET IN ACCORDANCE WITH STANDARD 701801.
 FOR CONSTRUCTION OF THE NORTH RETAINING WALL, TEMPORARY CONCRETE BARRIER SHALL BE PLACED ON THE WESTBOUND ROADWAY AND ON THE NORTH SIDEWALK ADJACENT TO THE CURB LINE TO PROVIDE A 5-FOOT CLEAR TEMPORARY SIDEWALK. PROVIDE TEMPORARY RAMPS BETWEEN THE EXISTING NORTH SIDEWALK AND THE TEMPORARY ONE ON THE WESTBOUND ROADWAY THAT CONFORM TO ALL ADA REQUIREMENTS. COST TO BE INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"

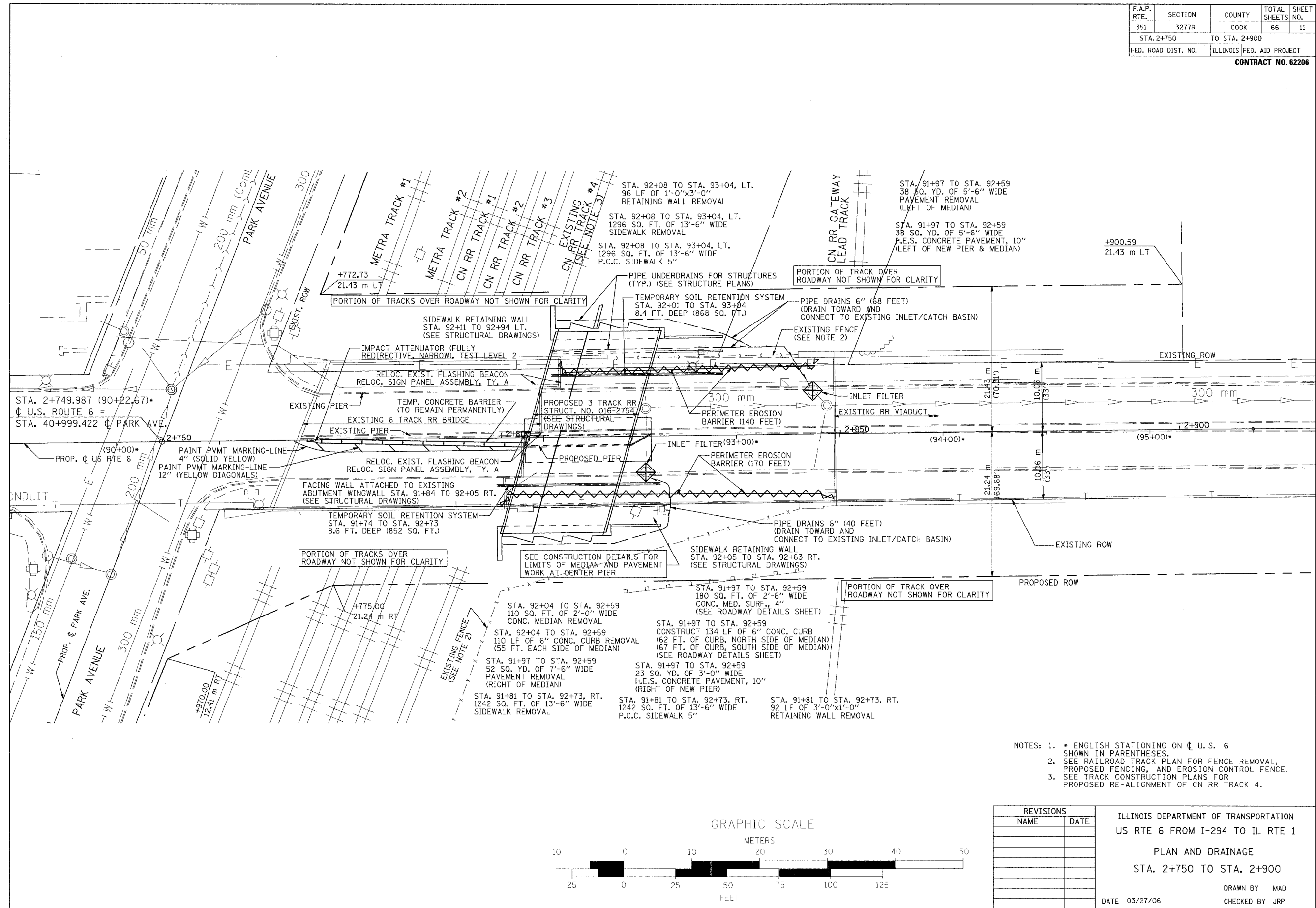
NOTES:
 • ENGLISH STATIONING ON U.S. 6 SHOWN IN PARENTHESES.
 • PEDESTRIAN TRAFFIC ALONG U.S. ROUTE 6 (159th STREET) SHALL BE MAINTAINED AT ALL TIMES. ALL SIDEWALK CLOSURES SHALL BE IN ACCORDANCE WITH STANDARD 701801.

REVISIONS	
NAME	DATE

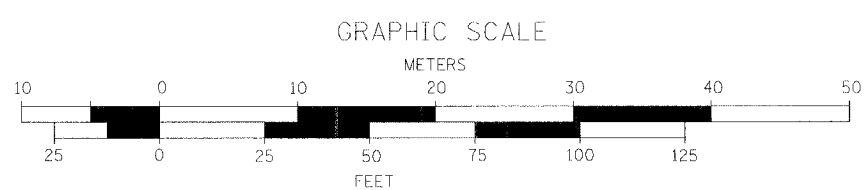
ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
 MAINTENANCE OF TRAFFIC DETAILS
 DATE 03/27/06
 DRAWN BY VAP
 CHECKED BY JRP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	11
STA. 2+750		TO STA. 2+900		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62206



- NOTES: 1. * ENGLISH STATIONING ON ϕ U.S. 6 SHOWN IN PARENTHESES.
2. SEE RAILROAD TRACK PLAN FOR FENCE REMOVAL, PROPOSED FENCING, AND EROSION CONTROL FENCE.
3. SEE TRACK CONSTRUCTION PLANS FOR PROPOSED RE-ALIGNMENT OF CN RR TRACK 4.



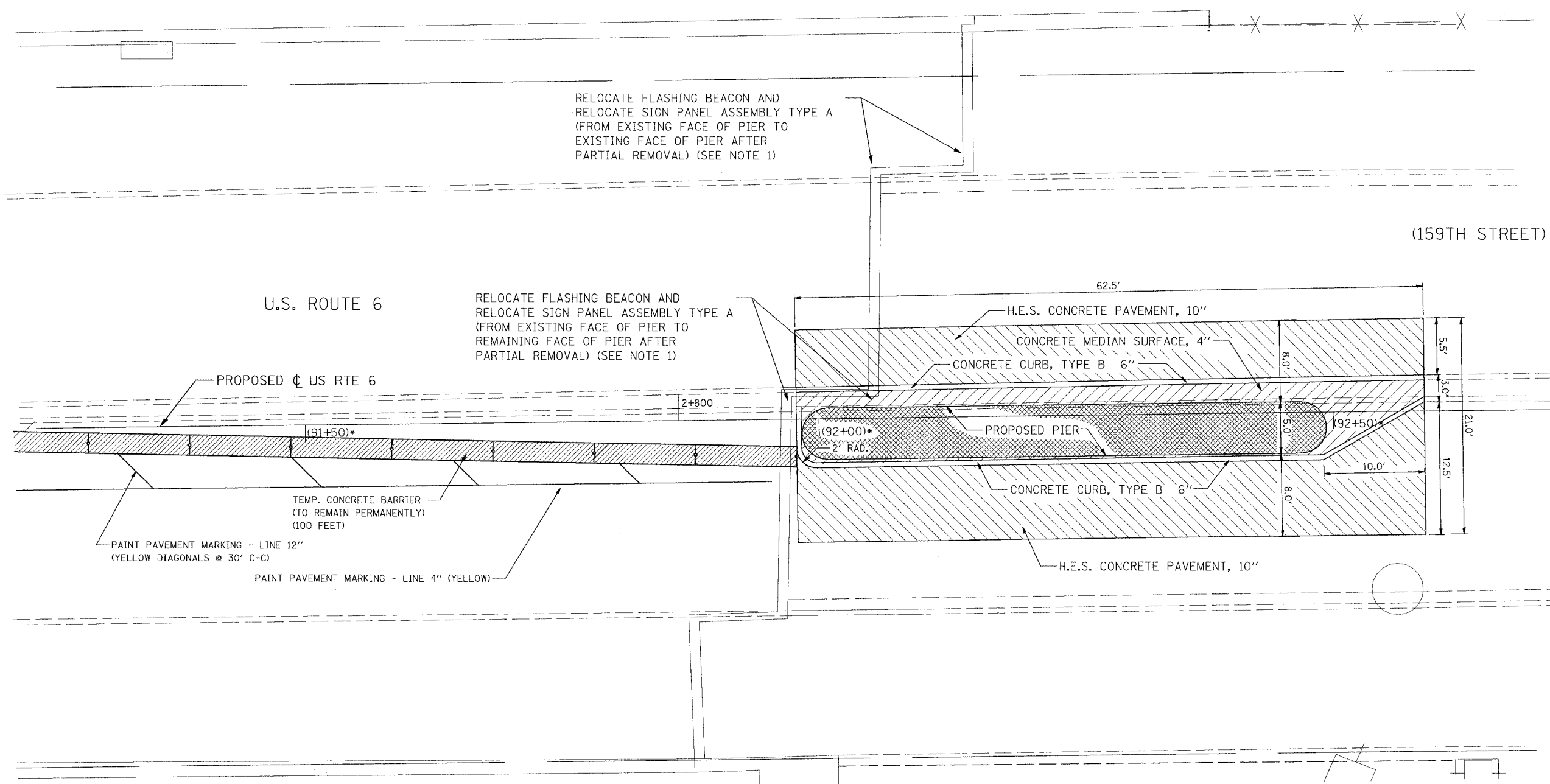
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
PLAN AND DRAINAGE
STA. 2+750 TO STA. 2+900

DRAWN BY MAD
CHECKED BY JRP
DATE 03/27/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62206



RELOCATE FLASHING BEACON AND RELOCATE SIGN PANEL ASSEMBLY TYPE A (FROM EXISTING FACE OF PIER TO EXISTING FACE OF PIER AFTER PARTIAL REMOVAL) (SEE NOTE 1)

RELOCATE FLASHING BEACON AND RELOCATE SIGN PANEL ASSEMBLY TYPE A (FROM EXISTING FACE OF PIER TO REMAINING FACE OF PIER AFTER PARTIAL REMOVAL) (SEE NOTE 1)

PAINT PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 30' C-C)
 PAINT PAVEMENT MARKING - LINE 4" (YELLOW)

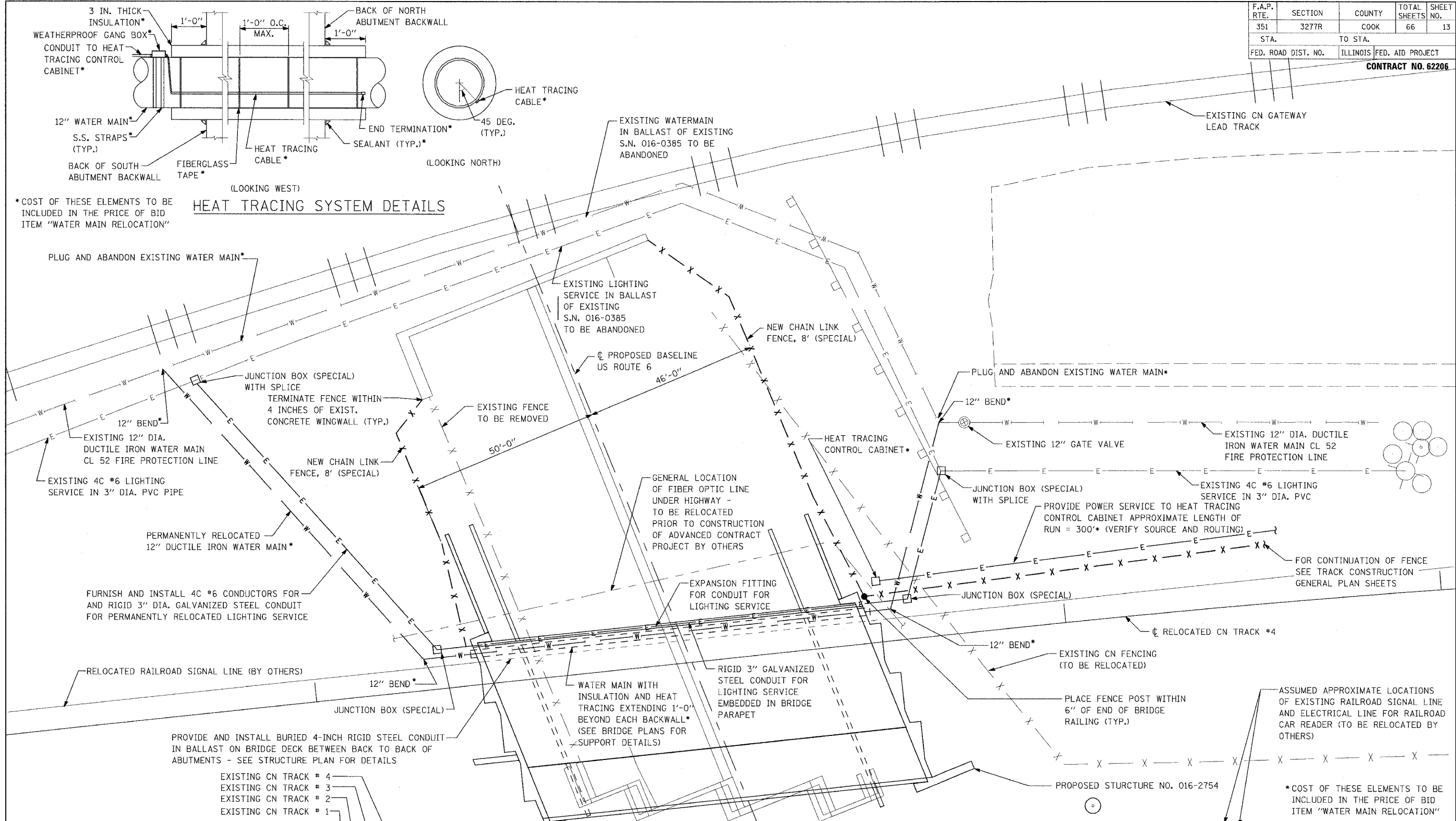
TEMP. CONCRETE BARRIER (TO REMAIN PERMANENTLY) (100 FEET)

NOTE 1: A MINIMUM OF ONE SIGN AND FLASHING BEACON MUST BE OPERATIONAL AND VISIBLE AT ALL TIMES TRAFFIC IS PRESENT ON WESTBOUND U.S. ROUTE 6 (159TH STREET)

REVISIONS	
NAME	DATE

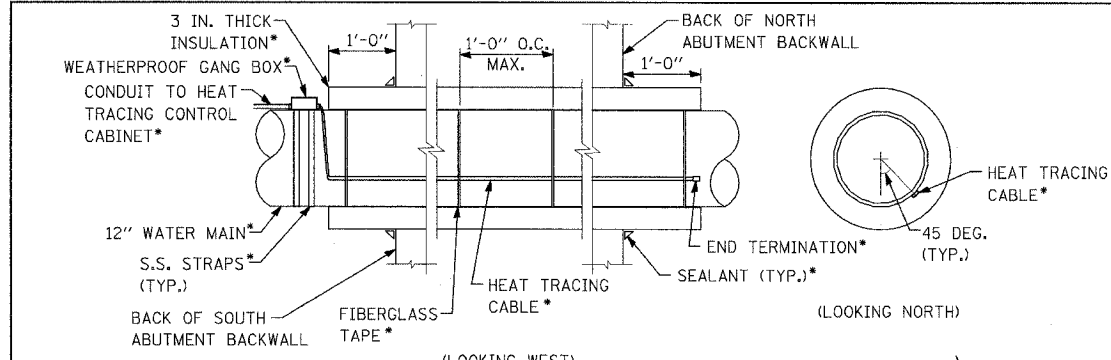
ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
 ROADWAY CONSTRUCTION DETAILS
 FOR CENTER PIER CONSTRUCTION
 DRAWN BY JRP
 CHECKED BY DEY
 DATE 03/27/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62206				

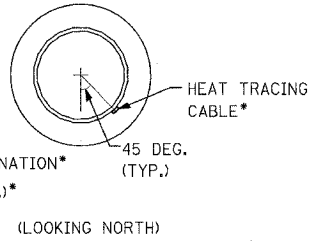


HEAT TRACING SYSTEM DETAILS

* COST OF THESE ELEMENTS TO BE INCLUDED IN THE PRICE OF BID ITEM "WATER MAIN RELOCATION"



(LOOKING WEST)



(LOOKING NORTH)

* COST OF THESE ELEMENTS TO BE INCLUDED IN THE PRICE OF BID ITEM "WATER MAIN RELOCATION"

REVISIONS	
NAME	DATE

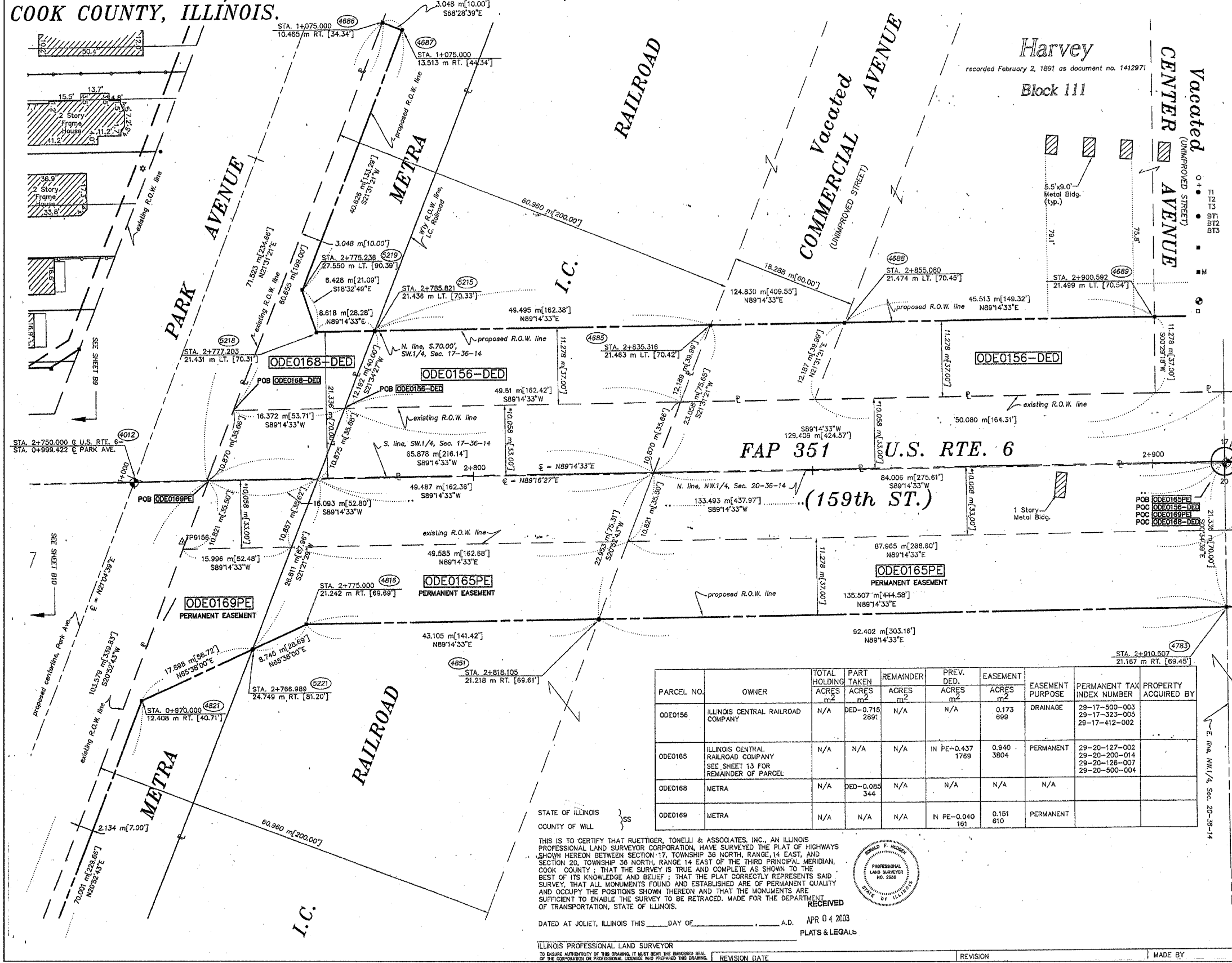
ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
 RAILROAD UTILITY
 RELOCATION PLAN

DATE 02/27/06

DRAWN BY MAD
 CHECKED BY DEY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	13A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
LEGEND			CONTRACT NO. 62206	

PART OF THE NW.1/4 OF SEC. 20 AND THE SW.1/4 OF SEC. 17, T.36N., R.14E., OF THE 3rd P.M., IN COOK COUNTY, ILLINOIS.



SECTION CORNER
 SECTION CORNER

QUARTER SECTION CORNER
 QUARTER SECTION CORNER

LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- REPLACED AFTER CONSTRUCTION
- THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

GRAPHIC SCALE
 (IN METERS)
 1 : 250

* DENOTES THE DISTANCE FROM THE RIGHT OF WAY LINE TO THE QUARTER SECTION LINE. CENTERLINE IS NOT COINCIDENT WITH QUARTER SECTION LINE AT LABEL POSITION.

SEE SHEETS 16-23 FOR COORDINATE DATA AND REFERENCE TIES.

RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/C.I.S. Consultants
 2174 OREGON STREET
 JOLIET, ILLINOIS 60435
 PH. (815) 744-8833 FAX (815) 744-8101
 2853 SOUTH WASHINGTON STREET SUITE 170
 SCHAUMBURG, ILLINOIS 60196
 PH. (815) 450-7700 FAX (815) 450-7741

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
ODE0156	ILLINOIS CENTRAL RAILROAD COMPANY	N/A	DED-0.715 2891	N/A	N/A	0.173 689	DRAINAGE	29-17-500-003 29-17-323-005 29-17-412-002	
ODE0185	ILLINOIS CENTRAL RAILROAD COMPANY SEE SHEET 13 FOR REMAINDER OF PARCEL	N/A	N/A	N/A	IN PE-0.437 1789	0.940 3804	PERMANENT	29-20-127-002 29-20-200-014 29-20-128-007 29-20-500-004	
ODE0168	METRA	N/A	DED-0.085 344	N/A	N/A	N/A	N/A		
ODE0169	METRA	N/A	N/A	N/A	IN PE-0.040 161	0.151 610	PERMANENT		

STATE OF ILLINOIS }
 COUNTY OF WILL } SS

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL LAND SURVEYOR CORPORATION, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 17, TOWNSHIP 36 NORTH, RANGE 14 EAST, AND SECTION 20, TOWNSHIP 36 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF ITS KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____ A.D. APR 04 2003

ILLINOIS PROFESSIONAL LAND SURVEYOR
 TO THE AUTHORITY OF THIS DRAWING, I HAVE SEEN THE ORIGINAL SURVEY AND THE COPIES THEREOF IN MY OFFICE AND I AM AWARE OF THE CONTENTS OF THIS DRAWING.
 RECEIVED
 PLATS & LEGALS



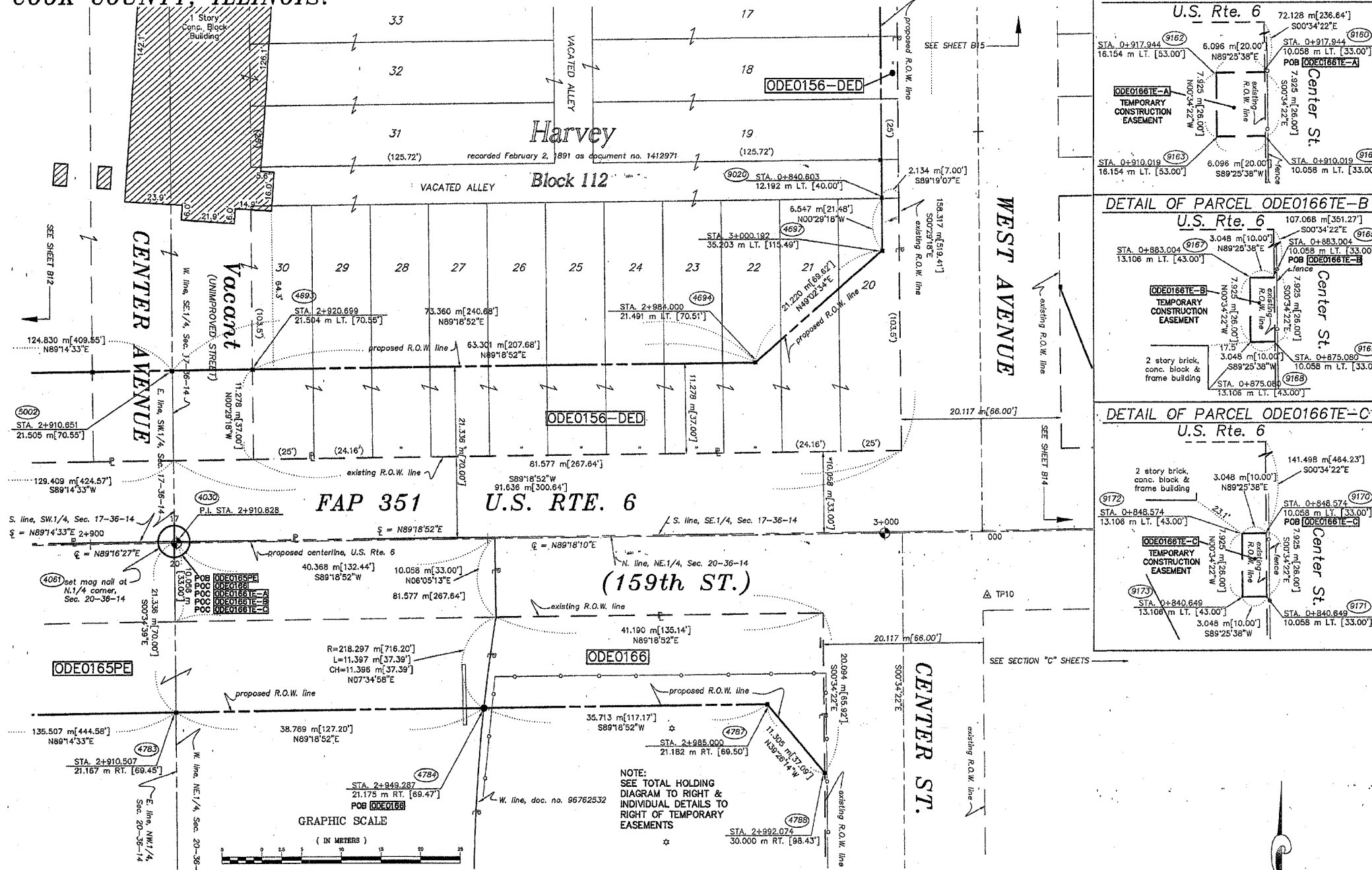
PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAP 351 U.S. RTE. 6 (159th ST.)

SECTION COOK COUNTY
 PROJECT JOB NO. R90-011-99
 STATION 2+750 TO STATION 2+910
 SCALE: 1:250 SHEET B12 OF B23

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

PART OF THE NE.1/4 OF SEC. 20 AND THE SW.1/4 OF SEC. 17, T.36N., R.14E., OF THE 3rd P.M., IN COOK COUNTY, ILLINOIS.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	327R	COOK	66	13B
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
LEGEND				
CONTRACT NO. 62206				



SECTION CORNER (Symbol: circle with crosshair)

QUARTER SECTION CORNER (Symbol: circle with crosshair)

SECTION LINE (Symbol: dashed line)

QUARTER SECTION LINE (Symbol: dashed line)

PLATTED LOT LINE (Symbol: solid line)

PROPERTY (DEED) LINE (Symbol: solid line)

APL (Symbol: solid line)

APPARENT PROPERTY LINE (Symbol: solid line)

CENTERLINE (Symbol: solid line)

EXISTING RIGHT OF WAY LINE (Symbol: solid line)

PROPOSED RIGHT OF WAY LINE (Symbol: dashed line)

PROPOSED EASEMENT (Symbol: dashed line)

MEASURED DIMENSION (Symbol: solid line)

COMPUTED DIMENSION (Symbol: solid line)

RECORD DATA (Symbol: solid line)

EXISTING BUILDING (Symbol: hatched area)

IRON PIPE OR ROD FOUND (Symbol: circle with crosshair)

CUT CROSS FOUND OR SET (Symbol: circle with crosshair)

THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

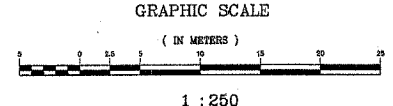
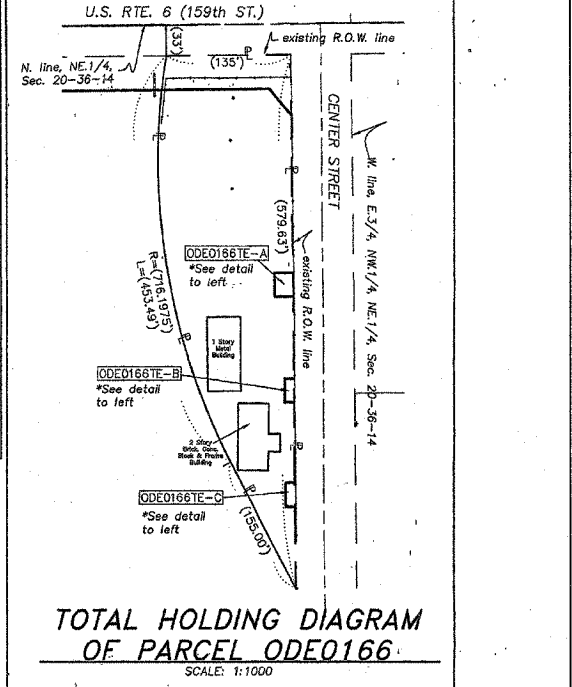
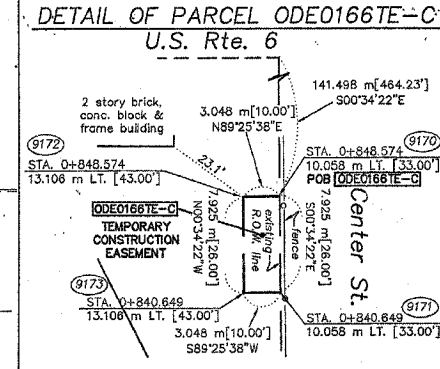
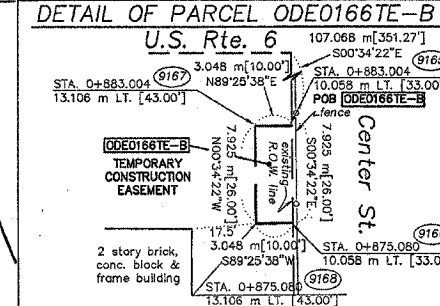
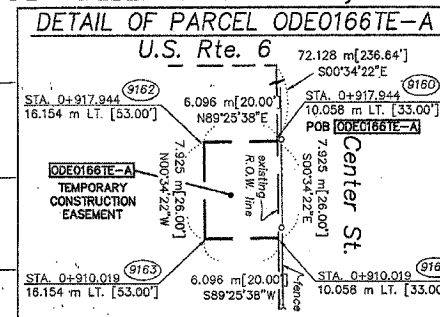
THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET.



NOTE:
SEE TOTAL HOLDING DIAGRAM TO RIGHT & INDIVIDUAL DETAILS TO RIGHT OF TEMPORARY EASEMENTS

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
ODE0165	ILLINOIS CENTRAL RAILROAD COMPANY	N/A	DED-0.715 2891	N/A	N/A	0.173	DRAINAGE	29-17-412-002 29-17-500-003 29-17-323-005	
ODE0165	ILLINOIS CENTRAL RAILROAD COMPANY SEE SHEET 12 FOR REMAINDER OF PARCEL	N/A	N/A	N/A	IN PE-0.437 1769	0.940 3804	PERMANENT	29-20-127-002 29-20-200-014 29-20-126-007 29-20-500-004	
ODE0166	THE CITY OF HARVEY	1.390 5824	0.125 505	1.265 5119	N/A	A-0.012 48 B-0.006 24 2605.F. C-0.006 24 2605.F.	DRAINAGE	29-20-200-017 29-20-200-008	

STATE OF ILLINOIS }
COUNTY OF WILL }

THIS IS TO CERTIFY THAT RUETIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL LAND SURVEYOR CORPORATION, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 17, TOWNSHIP 36 NORTH, RANGE 14 EAST, AND SECTION 20, TOWNSHIP 36 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF ITS KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR
TO FULFILL AUTHORITY OF THIS DRAWING, IT MUST BEAR THE ENDORSED SEAL OF THE CORPORATION OF PROFESSIONAL LICENSEES WHO PREPARED THIS DRAWING.

RECEIVED
APR 04 2003
PLATS & LEGALS

REVISION DATE _____ REVISION _____ MADE BY _____



SEE SHEETS 16-23 FOR COORDINATE DATA AND REFERENCE TIES.

RUETIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/C.I.S. Consultants
2724 BUCKLE STREET, SUITE 170, JOLIET, ILLINOIS 62450
PH: (815) 744-9000 FAX: (815) 744-0101

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 351 U.S. RTE. 6 (159th ST.)

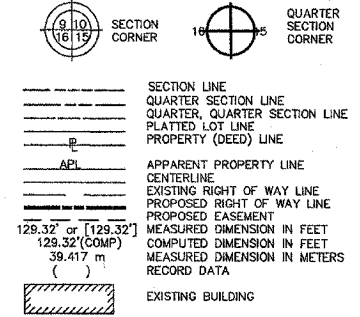
SECTION _____ COUNTY COOK COUNTY
PROJECT STATION 2+910 TO STATION 3+010
SCALE: 1:250 SHEET B13 OF B23

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	13C
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62206

LEGEND



- IRON PIPE OR ROD FOUND REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH
- T2 IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY
- T3 COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- B1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONU-
- B2 MENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE
- B3 FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SUR-
VEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY
MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION
DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8
INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY
MARKER POSITION, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEY-
ORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.



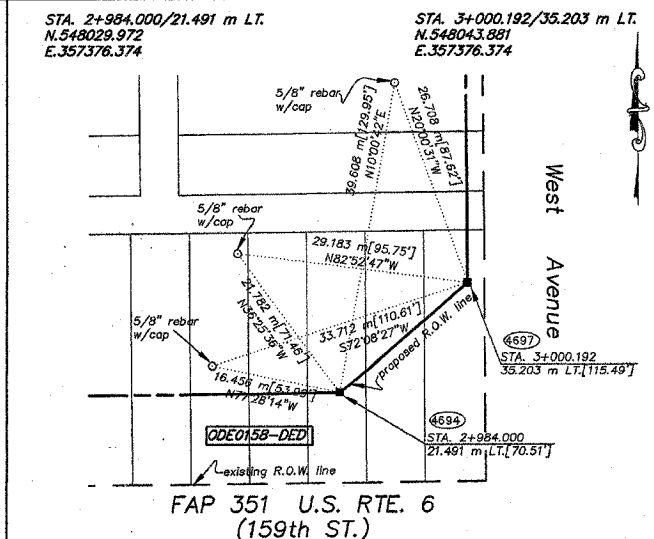
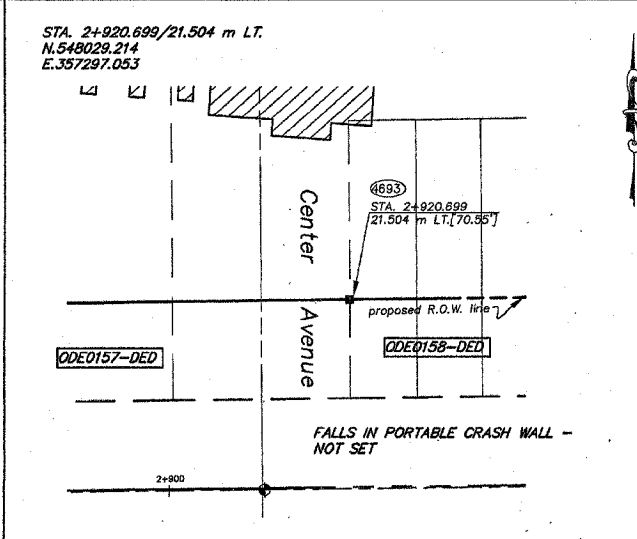
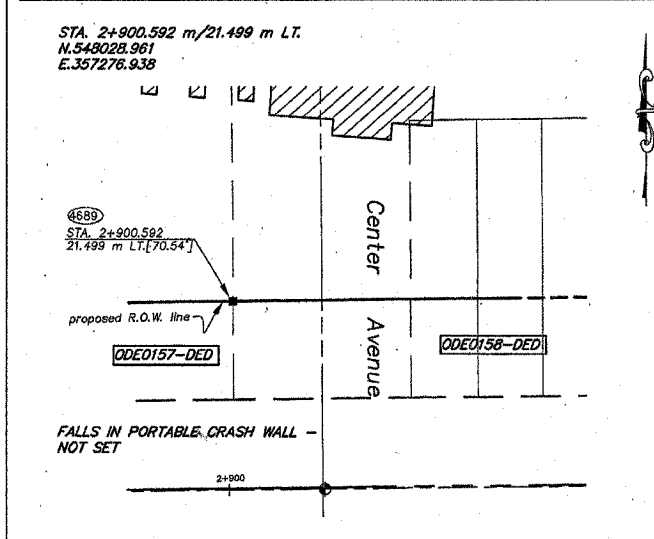
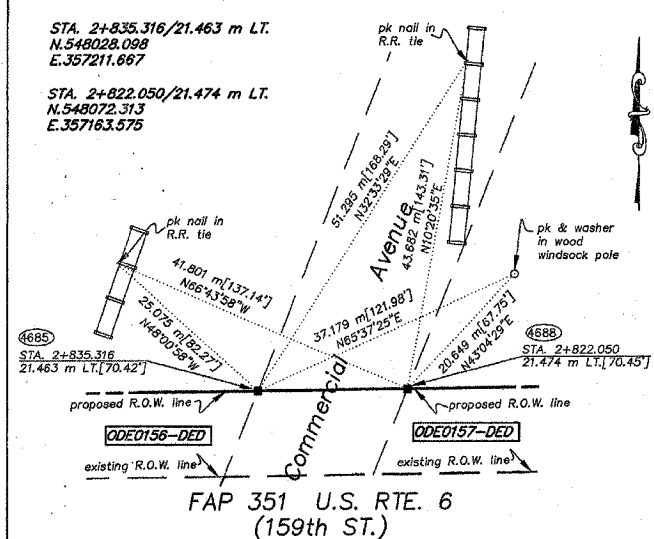
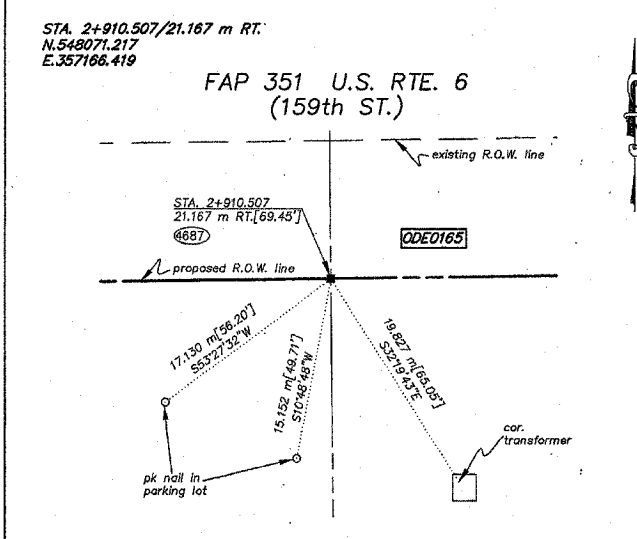
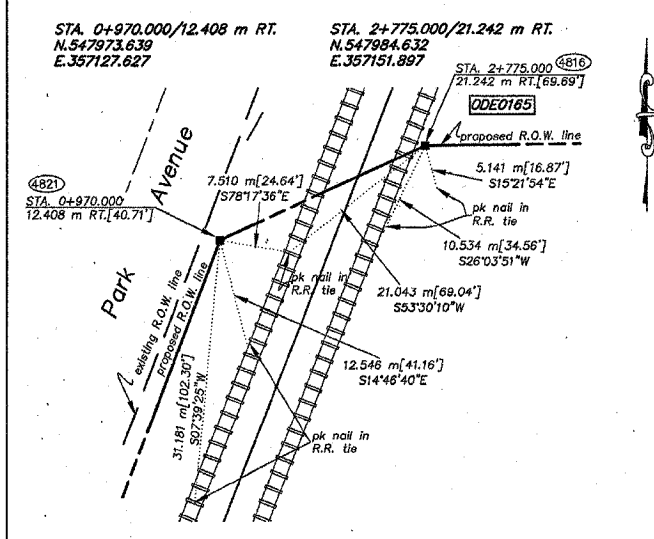
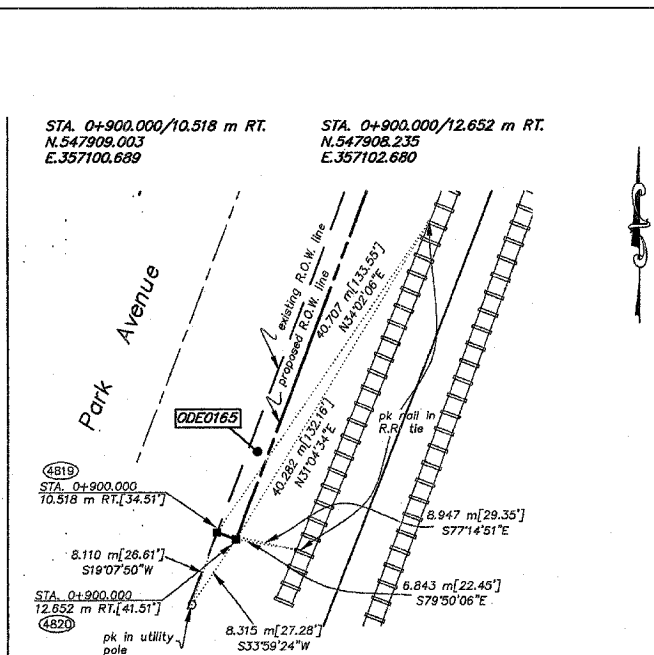
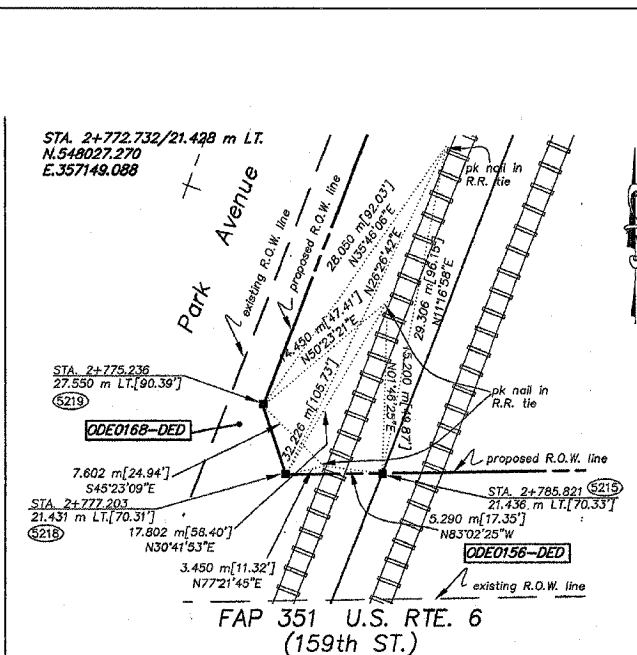
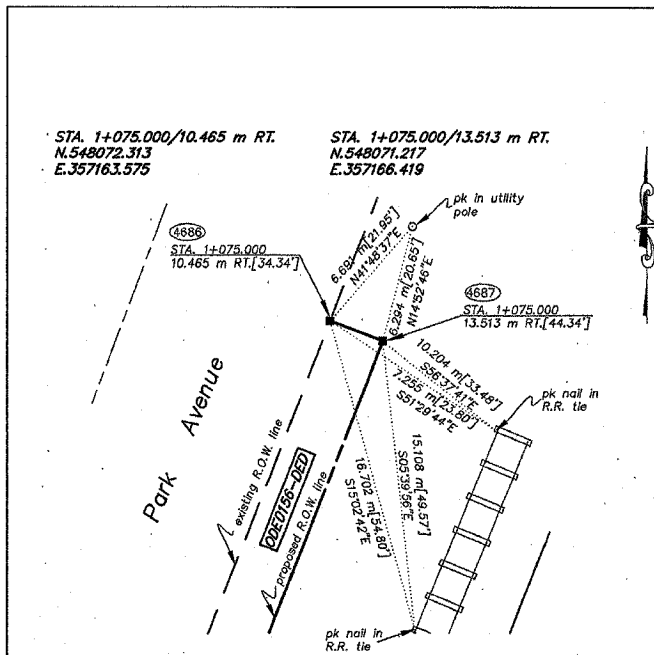
STATE OF ILLINOIS)
COUNTY OF WILL)
THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS
PROFESSIONAL LAND SURVEYOR CORPORATION, HAVE SURVEYED THE PLAT OF HIGHWAYS
SHOWN HEREON BETWEEN SECTION 20, TOWNSHIP 36 NORTH, RANGE 14 EAST, AND
SECTION 17, TOWNSHIP 36 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN,
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SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY
AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE
SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT
OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 5TH DAY OF DECEMBER, 2012 A.D.
RUETTIGER
ILLINOIS PROFESSIONAL LAND SURVEYOR
TO ENSURE AUTHENTICITY OF THIS DRAWING, IT MUST BEAR THE UNDOUBTED SEAL
OF THE CORPORATION OR PROFESSIONAL LICENSEE WHO PREPARED THIS DRAWING.

METRIC PROJECT COORDINATES ARE GROUND VALUES AND CAN
BE CONVERTED TO GRID VALUES BY MULTIPLYING THE PUBLISHED
GROUND COORDINATES BY 0.999988.
RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/L.I.S. Consultants
2274 OGDEN STREET SUITE 170 2605 SOUTH WASHINGTON STREET SUITE 170
JOLIET, ILLINOIS 62453 WAPORVILLE, ILLINOIS 62453
PH: (815) 744-4000 FAX: (815) 744-4001 PH: (815) 402-7746 FAX: (815) 402-7741

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 351 U.S. RTE. 6 (159th ST.)
SECTION COOK COUNTY
PROJECT JOB NO. R90-011-99
STATION TO STATION
SCALE: N/A SHEET B21 OF B23

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196



BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE
COORDINATE SYSTEM, EAST ZONE, NAD 83
SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.
SEE SHEETS 16-23 FOR COORDINATE DATA & REFERENCE
TIES.

REVISION DATE	REVISION	MADE BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62206

TEMPORARY LIGHTING NOTES

1. CONTRACTOR TO CONNECT PROPOSED AERIAL CABLE TO EXISTING LIGHTING CONTROLLER AND EXTEND TO PROPOSED TEMPORARY WOOD LIGHT POLE. INSTALL 15'-0" MAST ARM & 400W LUMINAIRE.
2. CONTRACTOR SHALL MAINTAIN POWER TO TEMPORARY LIGHT POLE UNTIL COMPLETION OF CONSTRUCTION.
3. CONTRACTOR SHALL REMOVE EXISTING LIGHT POLE MAST ARM AND LUMINAIRE AND DELIVER TO IDOT DISTRICT I STORAGE FACILITIES REMOVAL OF LIGHT POLE AND LUMINAIRE SHALL BE PAID FOR AS "REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE."
4. CONTRACTOR SHALL COORDINATE THE LOCATION OF TEMPORARY POLE SUCH THAT REMOVAL/RELOCATION OF THE TEMPORARY INSTALLATION IS NOT REQUIRED IN THE MIDST OF CONSTRUCTION ACTIVITIES.
5. WHEREVER NEW CABLES ARE TO BE INSTALLED TO MAINTAIN CONTINUITY OF POWER. THE CONTRACTOR SHALL MATCH THE NEW SIZE TO THE EXISTING. AERIAL CABLES SHALL BE INSULATED SUPPORTED OFF A STEEL MESSENGER WIRE AND PROPERLY STRUNG WITH THE ALLOWABLE SAG.
6. FOR THE DURATION OF THE PROJECT THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY AND EXISTING LIGHTING WITHIN THE PROJECT LIMITS AND ALSO THE EXISTING UNDERPASS AND SIDEWALK LIGHTS UNDER THE EAST BRIDGE ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
7. PLACEMENT OF THE TEMPORARY WOOD POLE IF NECESSARY, MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
8. SETBACKS FOR TEMPORARY POLE SHALL BE AS INDICATED ON THE PLAN.
9. THE CONTRACTOR SHALL VERIFY IN THE FIELD, THE DEPTH OF SOIL FROM GROUND SURFACE TO BEDROCK FOR WOOD POLE EMBEDMENT.
10. THE TEMPORARY LIGHTING UNIT SHALL REMAIN ACTIVE UNTIL THE MAIN CONTRACT CLOSES THE UNDERPASS FOR CONSTRUCTION.

DRAWING No. E-1

REVISIONS	
NAME	DATE

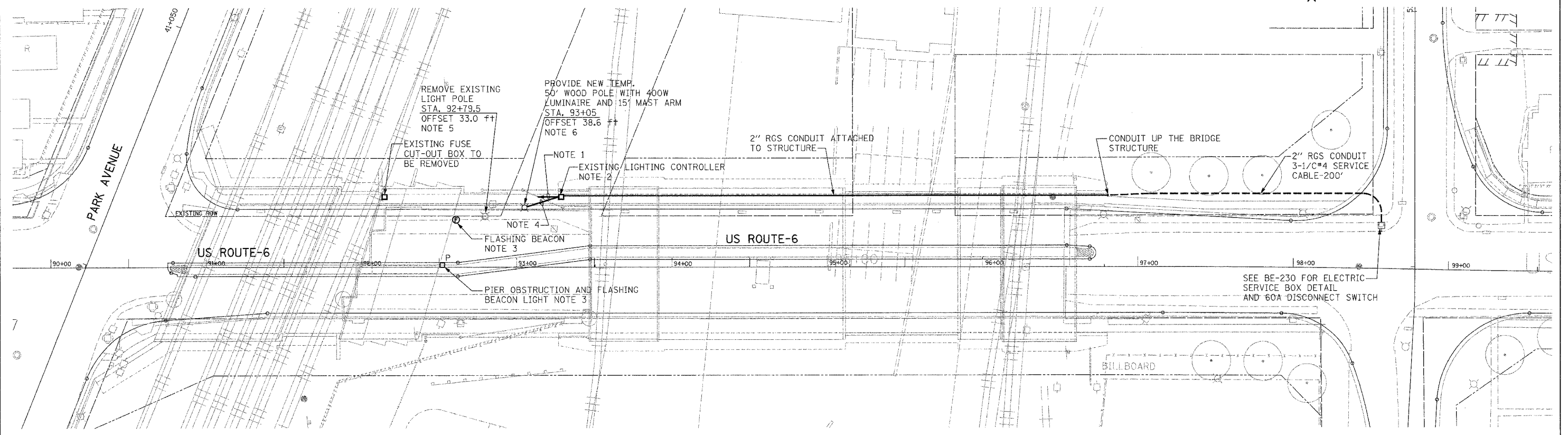
ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
TEMPORARY LIGHTING NOTES

 **DELTA ENGINEERING, INC.**
 CONSULTING ENGINEERS, CHICAGO ILLINOIS.

SCALE: NONE
 DATE: 03/27/06

DRAWN BY KK/IHS
 CHECKED BY CK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	15
STA.	TO STA.			
	ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 62206				



TEMPORARY LIGHTING AND NEW ComEd SERVICE PLAN

SCALE: 1"=30'-0"

NOTES:

1. REMOVE 114 L.F. OF EXISTING OVERHEAD AERIAL CABLE BETWEEN THE BRIDGES APPROX. 10 L.F. OF CONDUIT ATTACHED TO THE STRUCTURE TO THE CONTROLLER ON THE WEST BRIDGE AND THE CABLE IN CONDUIT. THESE WILL BE PAID FOR UNDER "PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LUMINAIRES".
2. EXISTING LIGHTING CONTROLLER IN SERVICE WITH THE NEW ComEd SERVICE AS SHOWN.
3. REMOVE PIER OBSTRUCTION LIGHT AND POWER SOURCE FOR THIS DEVICE. THIS WILL BE PAID FOR UNDER "PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LUMINAIRES".
4. INSTALL NEW TEMPORARY AERIAL CABLE (3-1/C#4 WITH MESSENGER WIRE) TO FEED THE TEMPORARY LIGHT POLE.
5. CONTRACTOR TO REMOVE EXISTING LIGHT POLE AND ENSURE THE EXISTING CIRCUIT CONTINUITY IS MAINTAINED AFTER THE POLE REMOVAL. ALSO SEE NOTE 3 ON DRAWING E-1. THIS WILL BE PAID FOR UNDER "REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE".
6. TEMPORARY WOOD LIGHT POLE BEHIND THE EXISTING FENCE. CONTRACTOR TO INSTALL ON THE POLE A 400W HIGH PRESSURE SODIUM LUMINAIRE ON A 15'-0" MAST ARM.
7. RELOCATE THE FLASHING BEACON AND REMOVE AND REINSTALL POWER SOURCE. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING FLASHING BEACON."

DRAWING No. E-2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
**TEMPORARY LIGHTING AND
NEW ComEd SERVICE PLAN**

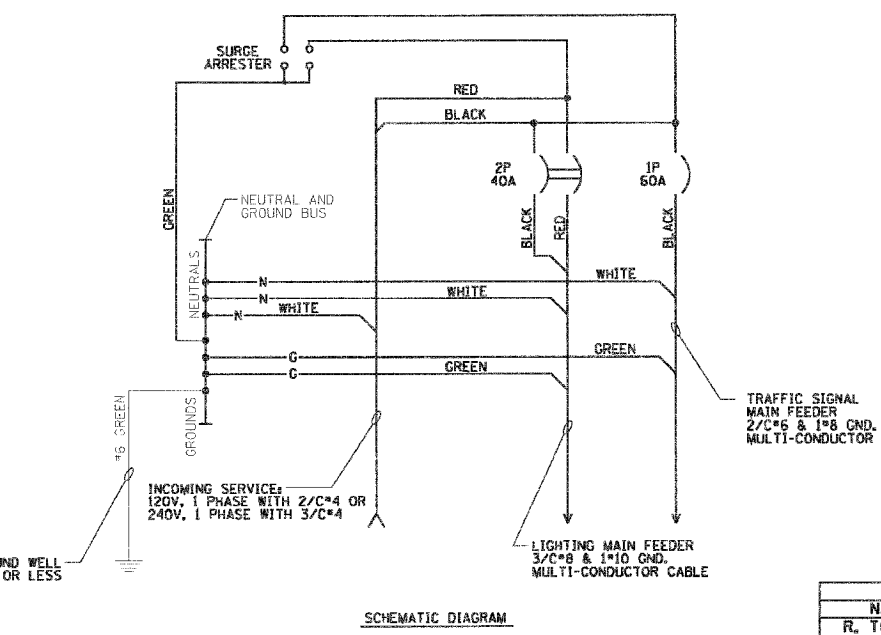
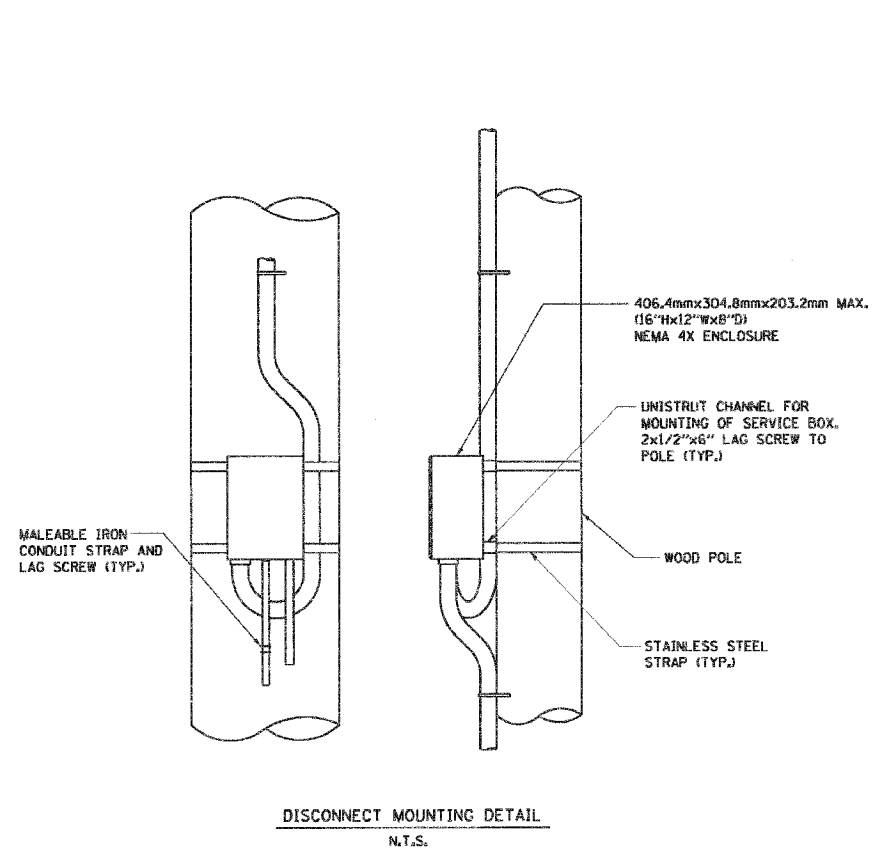
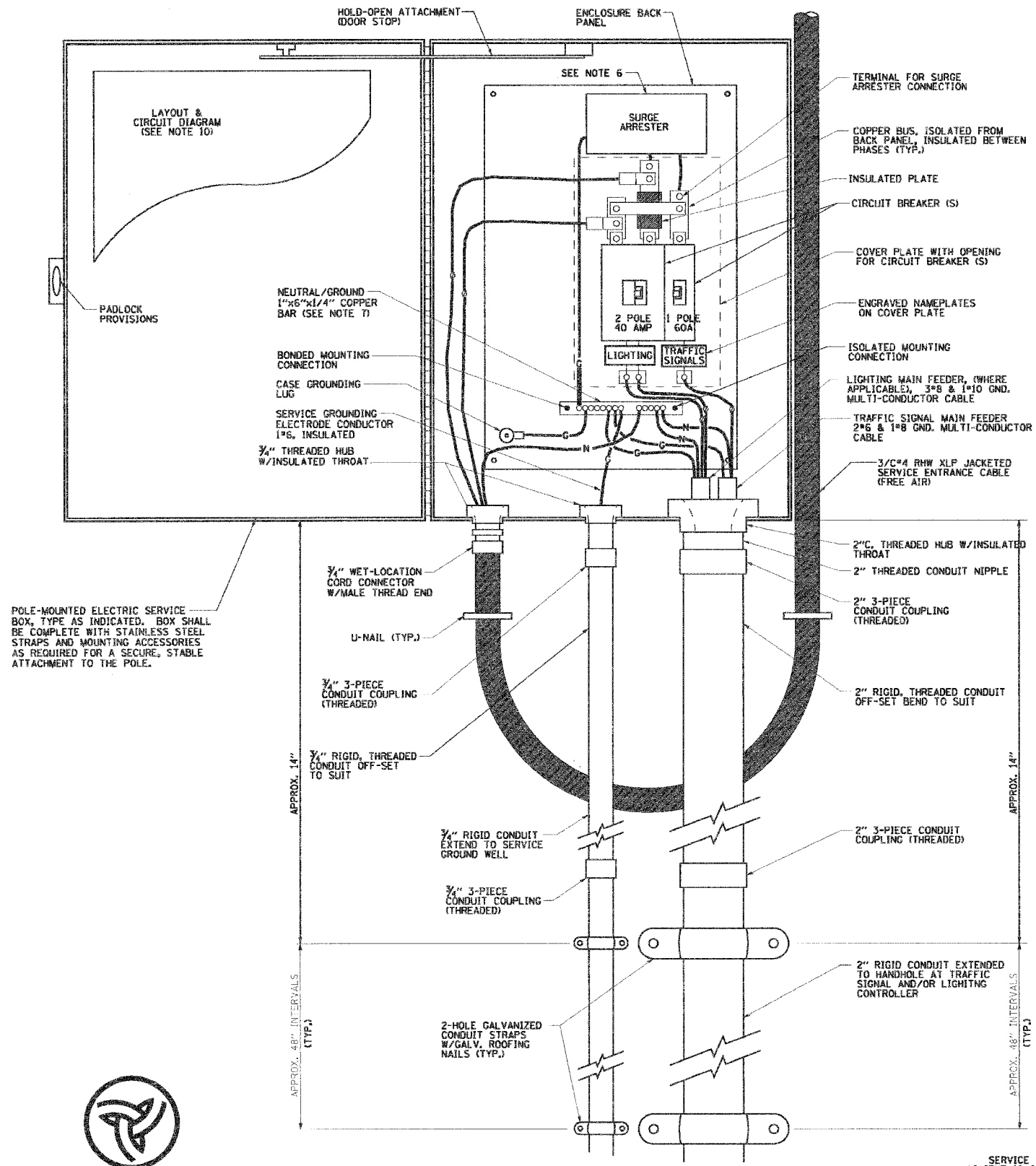
DEI DELTA ENGINEERING, INC.
CONSULTING ENGINEERS, CHICAGO, ILLINOIS.

SCALE: 1" = 30'-0"
DATE: 03/27/06

DRAWN BY: KK/IHS
CHECKED BY: CK

P. & S. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	66	16
STA.	TO STA.		FED. AID PROJECT	
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. G2206



- NOTES:**
- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
 - THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:
 TYPE A FULLY EQUIPPED FOR 240/120V. 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
 TYPE A1 FULLY EQUIPPED FOR 240/120V. 3W SERVICE, BLANK COVER IN LIEU OF LIGHTING MAIN BREAKER
 TYPE B EQUIPPED FOR 120V. SERVICE, COMPLETE WITH IP, 60A. TRAFFIC SIGNALS MAIN BREAKER
 TYPE B1 EQUIPPED FOR 120V. SERVICE, COMPLETE WITH IP, 40A. TRAFFIC SURVEILLANCE MAIN BREAKER
 - THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
 - THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" W X 16" H X 8" D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H120B556LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
 - CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 - THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.
 - BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
 - THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
 - THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
 - A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 - A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 - LUGS AND CONNECTORS SHALL BE RATED FOR 75° C CONDUCTOR.
 - THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

POLE-MOUNTED ELECTRIC SERVICE BOX, TYPE AS INDICATED, BOX SHALL BE COMPLETE WITH STAINLESS STEEL STRAPS AND MOUNTING ACCESSORIES AS REQUIRED FOR A SECURE, STABLE ATTACHMENT TO THE POLE.

6" DECAL ON FRONT COVER

POLE-MOUNTED ELECTRIC SERVICE ENTRANCE GENERAL LAYOUT DIAGRAM

DISCONNECT MOUNTING DETAIL N.T.S.

SCHEMATIC DIAGRAM

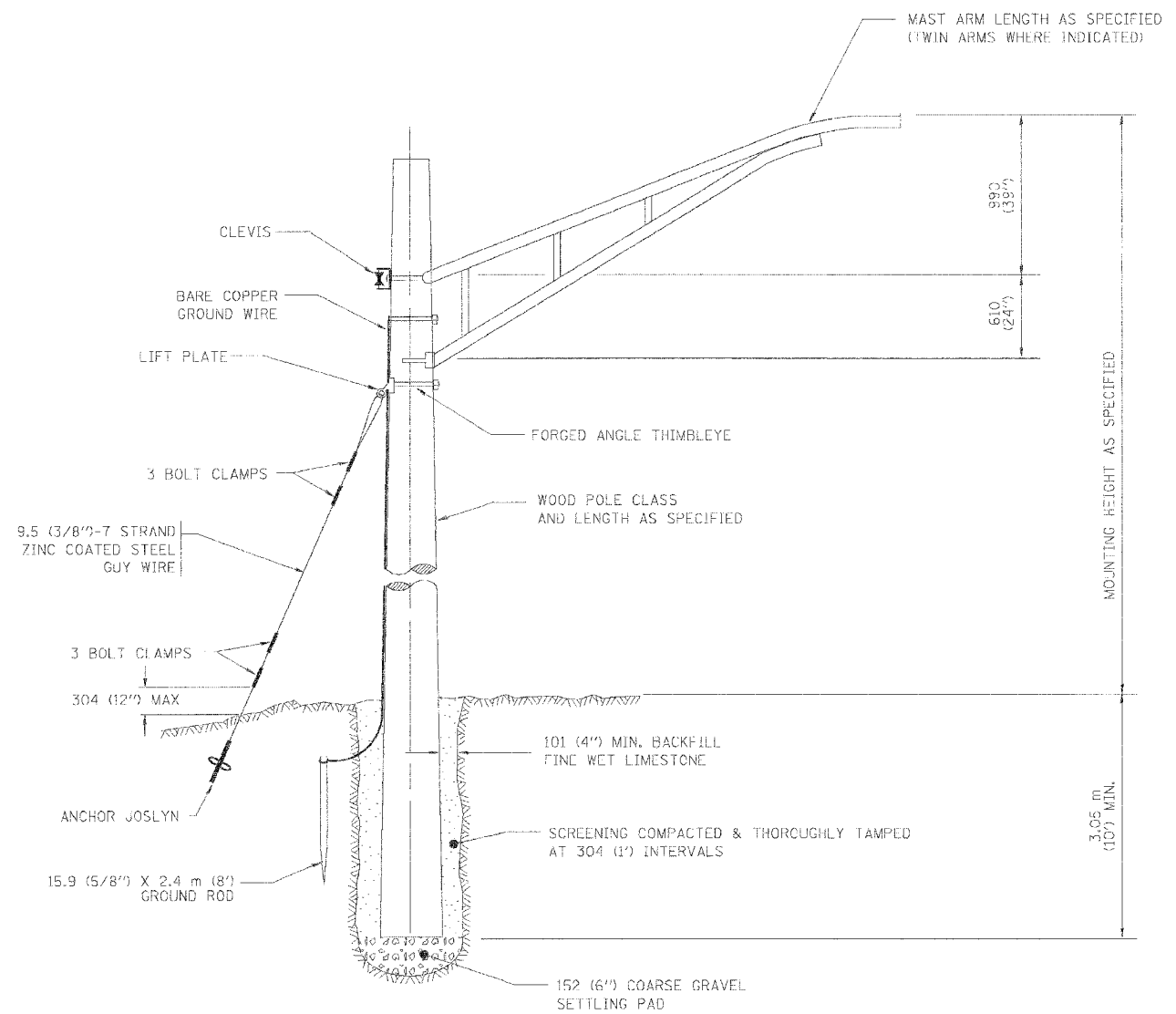
SERVICE GROUND WELL ACHIEVE 10 OHMS OR LESS

REVISIONS		
NAME	DATE	
R. TOMSONS	8-13-04	

ILLINOIS DEPARTMENT OF TRANSPORTATION

COMBINATION LIGHTING & TRAFFIC POLE MOUNTED ELECTRIC SERVICE BOX DETAIL

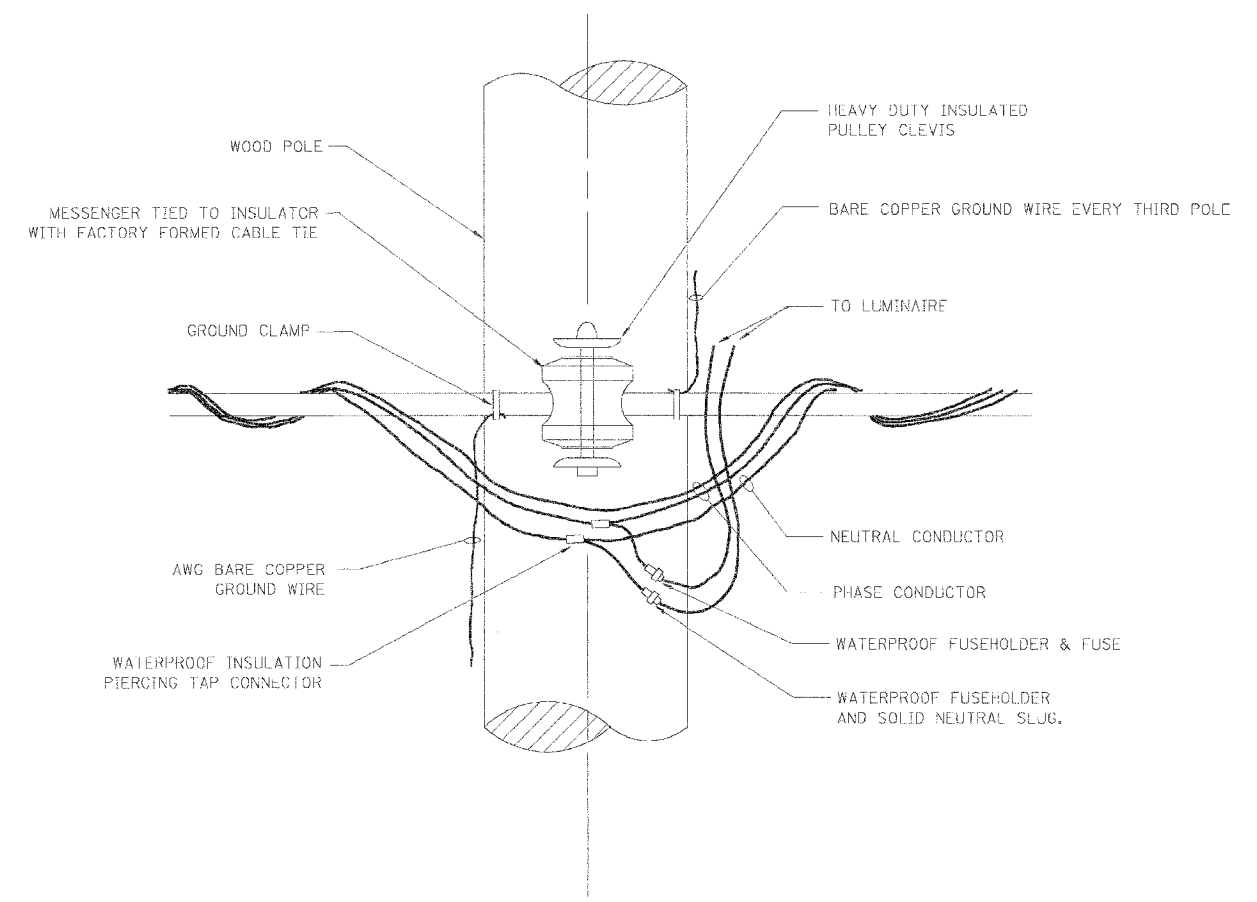
SCALE: NONE DRAWN BY: DATE 03/27/06 CHECKED BY: BE-230



TEMPORARY LIGHT POLE DETAIL

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS (INCHES) UNLESS OTHERWISE INDICATED



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

REVISIONS	
NAME	DATE

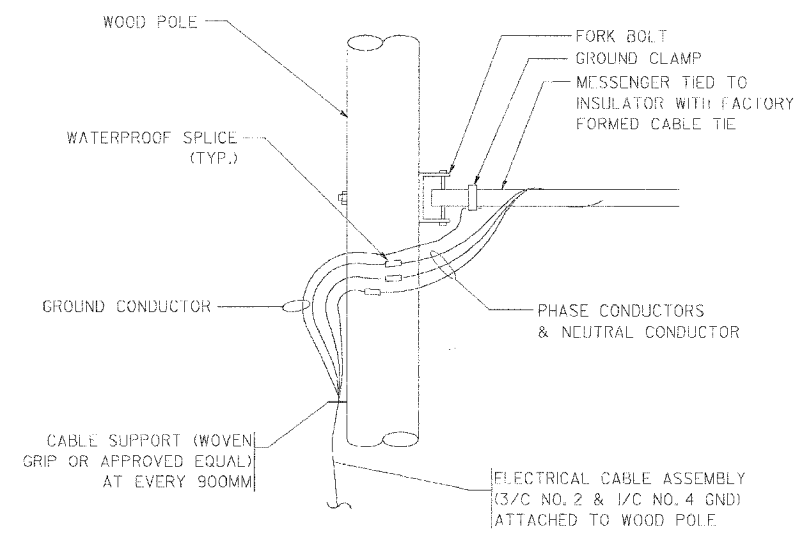
ILLINOIS DEPARTMENT OF TRANSPORTATION

**TEMPORARY LIGHT POLE
DETAILS**

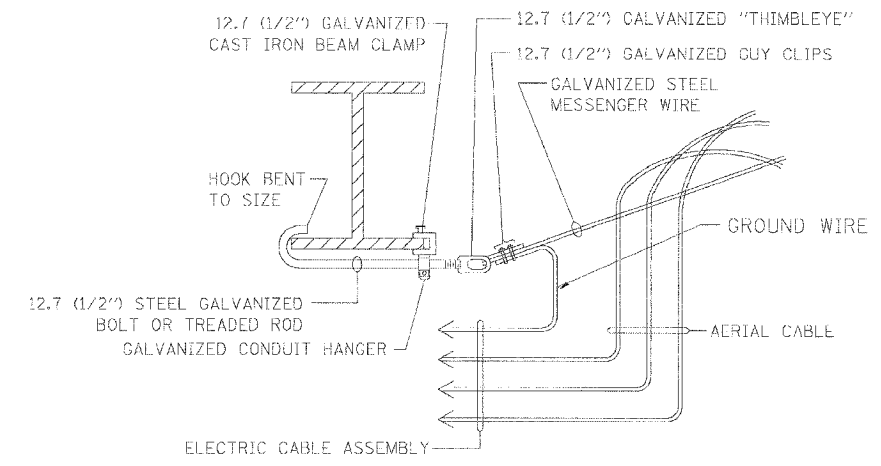
SCALE: NONE
DATE: 03/27/06

DRAWN BY
CHECKED BY

REVISION DATE: **BE-800**

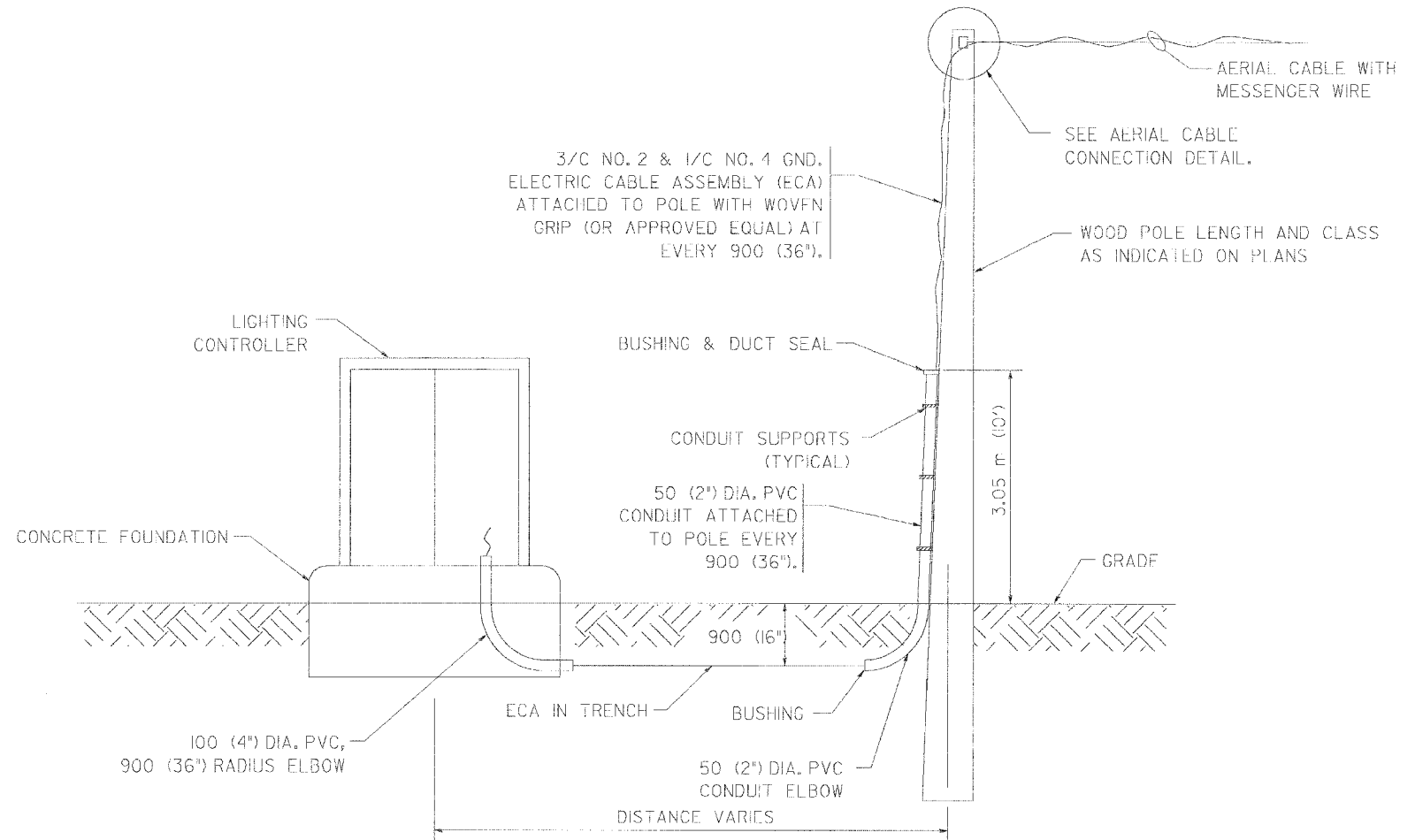


AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

- NOTES:**
1. ALL DIMENSIONS IN MILLIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center">TEMPORARY AERIAL CABLE INSTALLATION</p> <p>SCALE: <i>NONE</i> DRAWN BY</p> <p>DATE: 03/27/06 CHECKED BY</p>

BENCHMARK:
 "X" cut on the southeasterly corner of the R.R. bridge pier in the centerline of 159th Street at the east face of the bridge, approximately 98 feet west of Center Street Elevation 603.25

EXISTING STRUCTURE:
 None

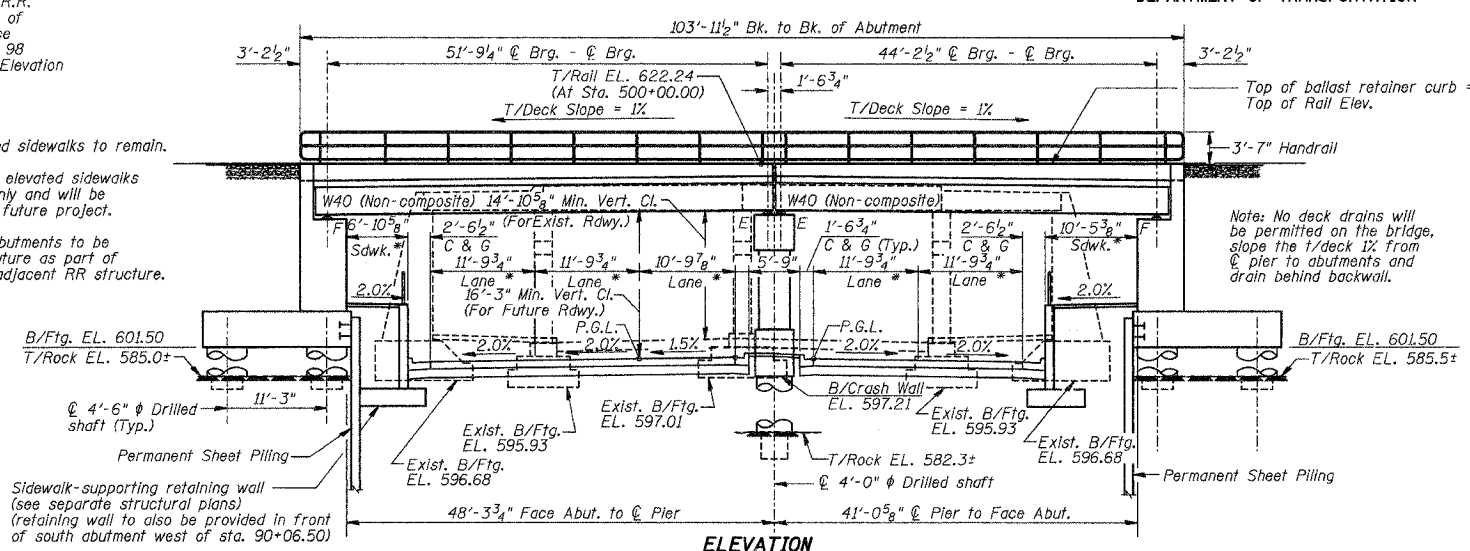
* Existing 2-lane roadway and sidewalks to remain.
 Future 5-lane roadway and elevated sidewalks are shown for reference only and will be constructed by others in a future project.
 Wingwalls at west end of abutments to be constructed by others in future as part of reconstruction of existing adjacent RR structure.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

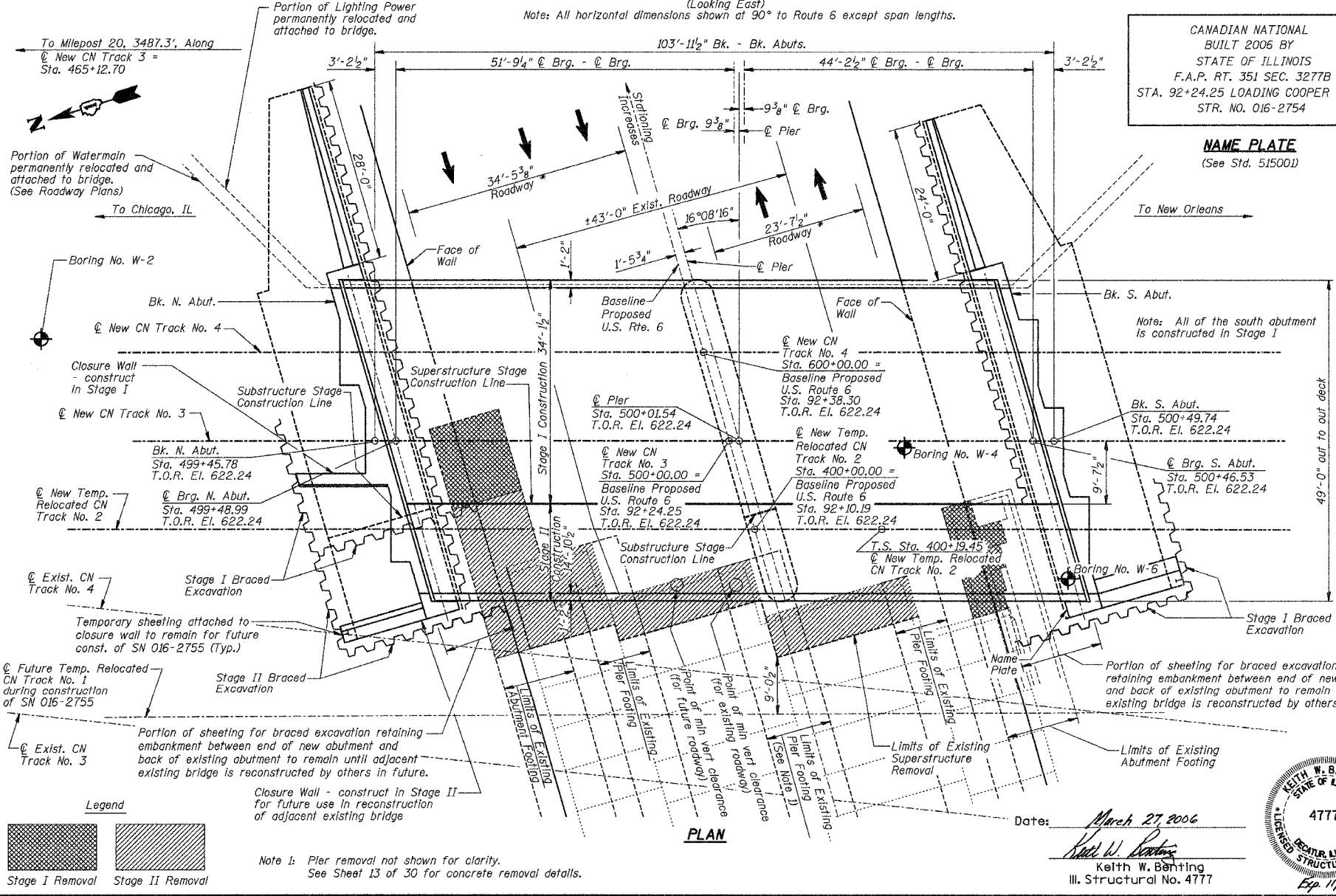
STAGING:

U.S. Rte. 6 to be closed to traffic during both Stage 1 and Stage 2 of Pier construction only. U.S. Rte 6 to remain open during all other construction of SN 016-2754.
 All 4 CN Tracks on existing bridge to remain open during construction.
 Track #4 to be permanently relocated onto new structure after completion of Stage I construction.
 Track #3 to be permanently relocated onto new structure after completion of Stage II construction.
 Track to be constructed on new structure after completion of Stage II construction for future temporary relocation of Track #2.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	19
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT - Contract No. 62206				

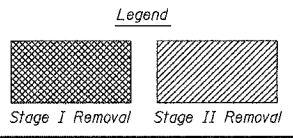


ELEVATION
 (Looking East)
 Note: All horizontal dimensions shown at 90° to Route 6 except span lengths.



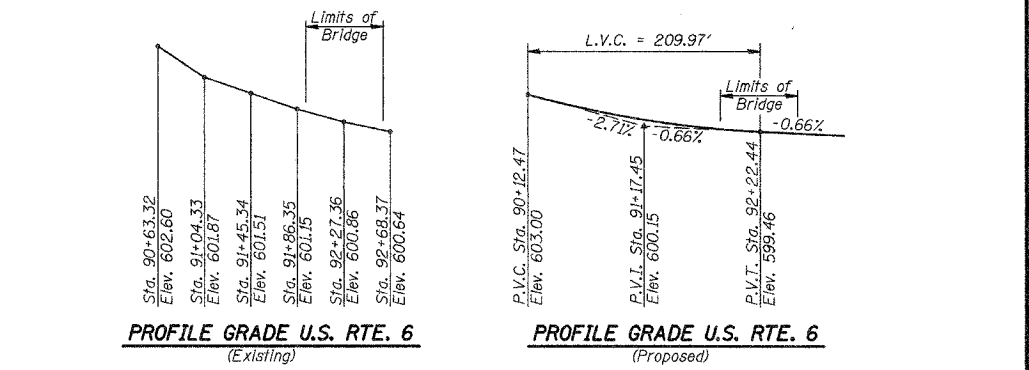
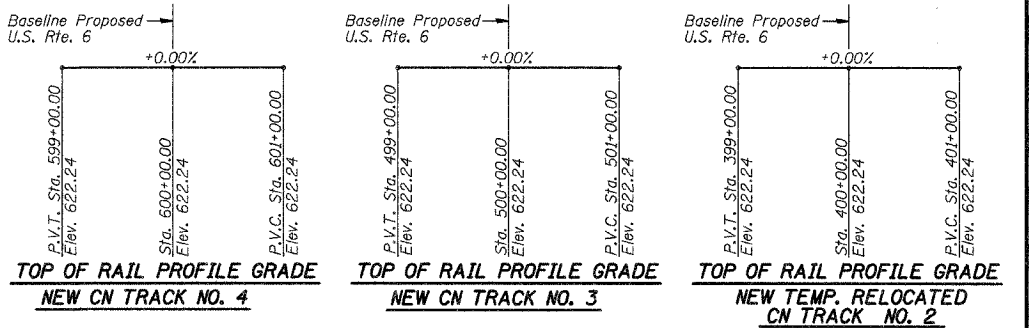
PLAN

Note 1: Pier removal not shown for clarity. See Sheet 13 of 30 for concrete removal details.



CANADIAN NATIONAL
 BUILT 2006 BY
 STATE OF ILLINOIS
 F.A.P. RT. 351 SEC. 3277B
 STA. 92+24.25 LOADING COOPER E-80
 STR. NO. 016-2754

NAME PLATE
 (See Std. 515001)



DESIGN SPECIFICATIONS
 American Railway Engineering & Maintenance-of-Way Association (AREMA) Manual for Railway Engineering, 2003.
 2003 AASHTO Standard Specifications for Highway Bridges.

DESIGN STRESSES
FIELD UNITS
 f'c = 3,500 p.s.i.
 fy = 60,000 p.s.i. (Reinforcement)
 fy = 50,000 p.s.i. (Struct.) (M270 Grade 50)
 fy = 36,000 p.s.i. (Struct.) (M270 Grade 36)

CN /IC RAILROAD
 CLASS: RAILROAD
 ADT: CN Tracks 3 & 4 = 18 Freight Trains Per Day (Combined)
 CN Track 2 = 8 Freight Trains & 2 Passenger Trains Per Day
 Design Speed: 50 mph

LOADING COOPER E-80
 Cooper E80 plus Impact for equipment with hammer blow.
 Service Load Design (CN R.R. Bridge) Allow for future addition of 12" ballast.

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = .039g
 Site Coefficient (S) = 1.0

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 Ralph E. Anderson (TSP)
 ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN AND ELEVATION			Sheet No.
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	1
Revisions	Drawn BKN		
	Checked DCS		
	Approved KWB		
Prepared By: URS	3040 N. University Ave., Suite 1 Decatur, IL.		of 30 URS Job No. 36430825



Date: March 27, 2006
 Keith W. Bunting
 Ill. Structural No. 4777

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	20
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract No. 62206

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 7/8"φ, open holes 5/8"φ, unless otherwise noted.

Calculated weight of M270 Gr. 36 (ASTM A709 Gr. 36) Structural Steel = 168,160 Pounds.

Calculated weight of M270 Gr. 50 (ASTM A709 Gr. 50) Structural Steel = 435,300 Pounds.

Field welding of construction accessories will not be permitted to beams or girders.

Anchor bolts shall be set before bolting diaphragms over supports.

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.

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

All Construction joints shall be banded.

The back face of closed abutments and their wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.

Bridge Seat Sealer shall be applied to the seat area of the abutments and pier.

Reinforcement bars designated (E) shall be epoxy coated.

The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. 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 finish coat for the exterior and bottom flange of the fascia beams shall be reddish brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures".

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.

The Contractor shall provide all calculations required for Braced Excavation. See Special Provision for Braced Excavation.

See Typical Sections sheet of roadway plans for Commonwealth Edison duct bank facility under north sidewalk immediately adjacent to location of proposed north abutment and sidewalk retaining wall.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	GENERAL PLAN AND ELEVATION
2	GENERAL NOTES & TOTAL BILL OF MATERIAL
3	STAGE CONSTRUCTION SEQUENCE
4	BRACED EXCAVATION DETAILS
5	SUBSTRUCTURE LAYOUT
6	SUPERSTRUCTURE
7	SUPERSTRUCTURE DETAILS
8	JOINT DETAILS
9	HANDRAIL DETAILS
10	FRAMING PLAN
11	BEAM DETAILS
12	BEARING DETAILS
13	CONCRETE REMOVAL DETAILS
14	CONCRETE DECK REMOVAL DETAILS
15-19	NORTH ABUTMENT DETAILS
20-24	SOUTH ABUTMENT DETAILS
25-26	PIER DETAILS
27	BAR SPLICER DETAILS
28	DRAINAGE & BACKFILL DETAILS
29-30	SOIL BORINGS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		814	814
Concrete Removal	Cu. Yd.		182.0	182.0
Concrete Deck Removal	Sq. Ft.		468	468
Structure Excavation	Cu. Yd.		490	490
Concrete Structures	Cu. Yd.		820.9	820.9
Concrete Superstructure	Cu. Yd.	170.1		170.1
Furnishing and Erecting Structural Steel	L. Sum	1		1
Reinforcement Bars	Pound		18,850	18,850
Reinforcement Bars, Epoxy Coated	Pound	24,660	160,010	184,670
Pipe Handrail, Special	Foot	208		208
Name Plates	Each		1	1
Membrane Waterproofing (Special)	Sq. Ft.	5773		5773
Bridge Seat Sealer	Sq. Ft.		634	634
Pipe Underdrains For Structures 6"	Foot		170	170
Non-Special Waste Disposal	Cu. Yd.		179	179
Geocomposite Wall Drain	Sq. Yd.		222	222
Braced Excavation	Cu. Yd.		678	678
Bar Splicers	Each	198	128	326
Drilled Shaft in Soil 36"	Foot		241.5	241.5
Drilled Shaft in Soil 48"	Foot		89.5	89.5
Drilled Shaft in Soil 54"	Foot		390.0	390.0
Drilled Shaft in Rock 30"	Foot		42.0	42.0
Drilled Shaft in Rock 42"	Foot		18.0	18.0
Drilled Shaft in Rock 48"	Foot		72.0	72.0
Permanent Steel Sheet Piling	Sq. Ft.		2280	2280
Temporary Ballast Retainer (Installed)	Foot	66		66
Temporary Ballast Retainer (Installed and Removed)	Foot	104		104
Pipe Support	Each	11		11
Alignment Guide	Each	2		2
Conduit Embedded in Structure, 3" Dia., Galvanized Steel	Foot	104		104
Conduit, 4" Dia., Galvanized Steel	Foot	104		104

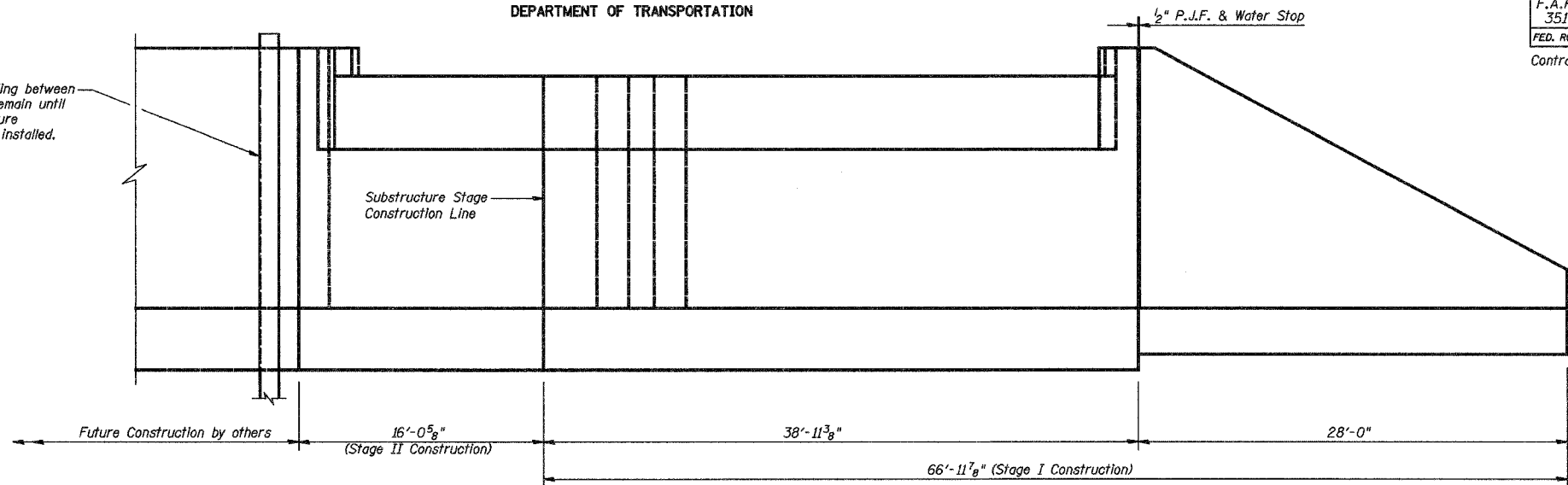
GENERAL NOTES & TOTAL BILL OF MATERIAL

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		2
	Checked DCS		
	Approved KWB		of 30
Prepared By:	URS 3040 N. University Ave., Suite 1 Decatur, IL.		

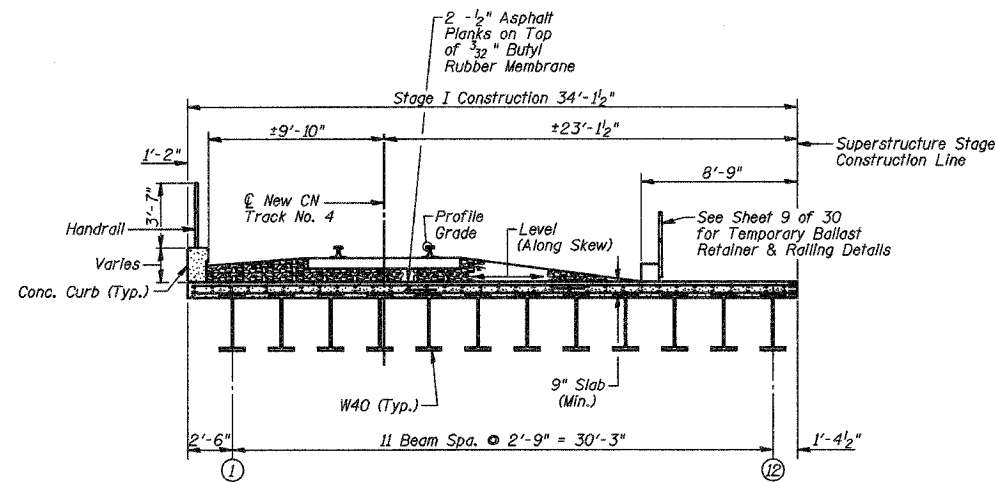
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	21
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				

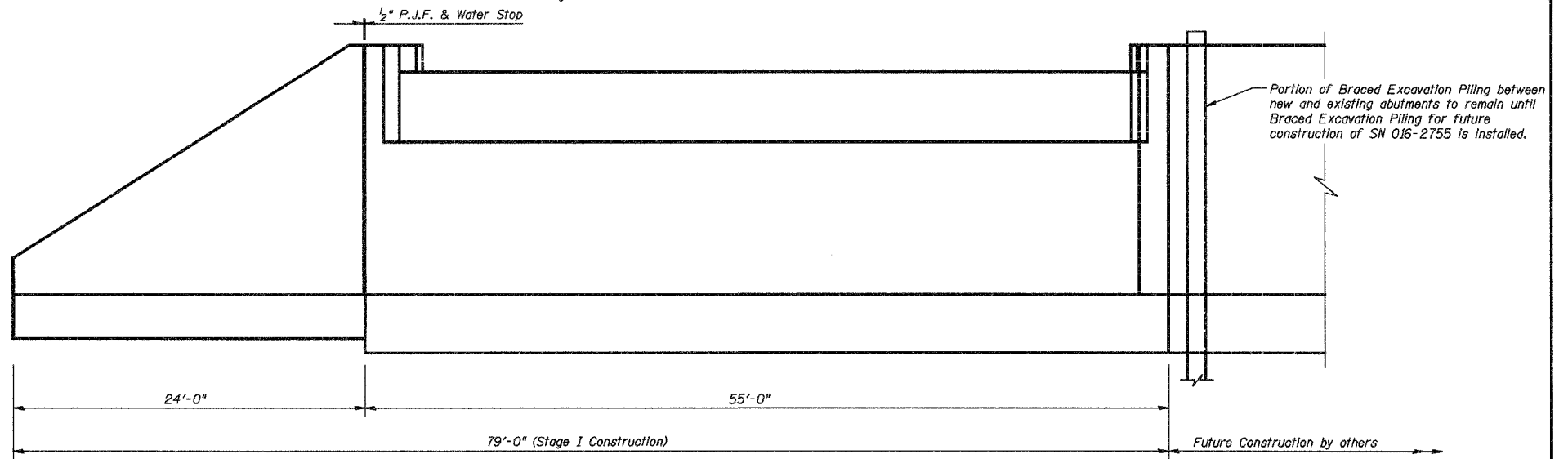
Portion of Braced Excavation Piling between new and existing abutments to remain until Braced Excavation Piling for future construction of SN 016-2755 is installed.



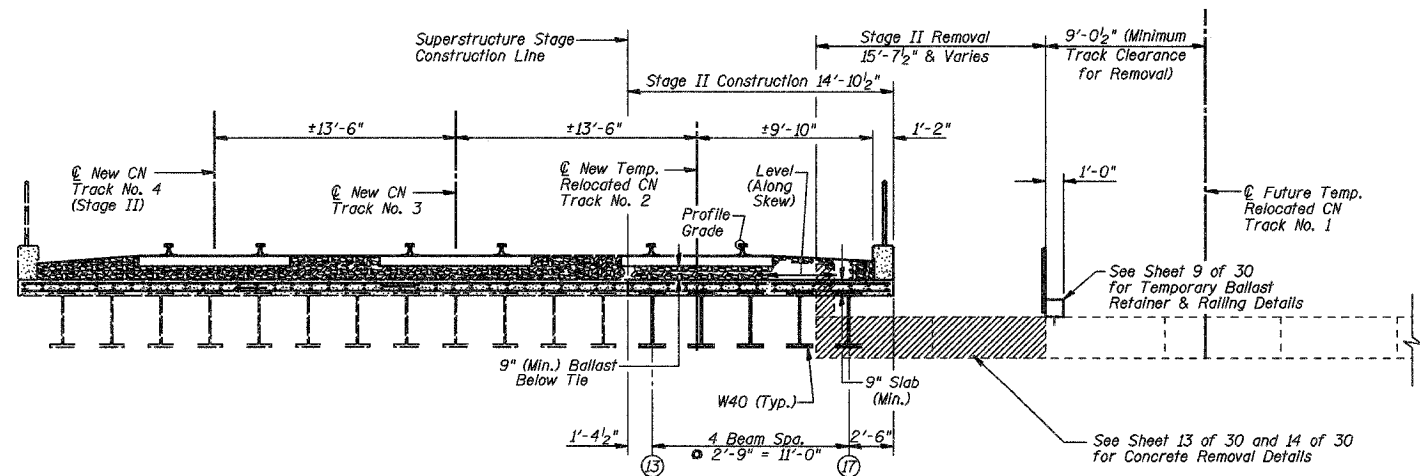
ELEVATION - NORTH ABUTMENT
(Looking North)



CROSS SECTION STAGE I
(Looking South)



ELEVATION - SOUTH ABUTMENT
(Looking South)

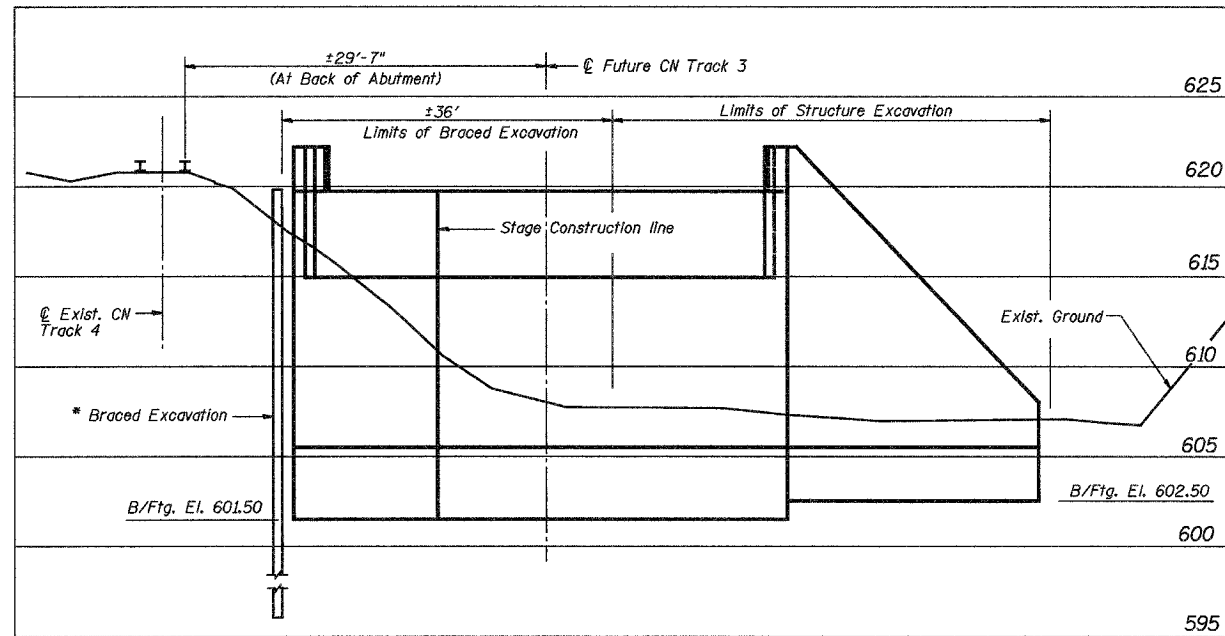


CROSS SECTION STAGE II
(Looking South)

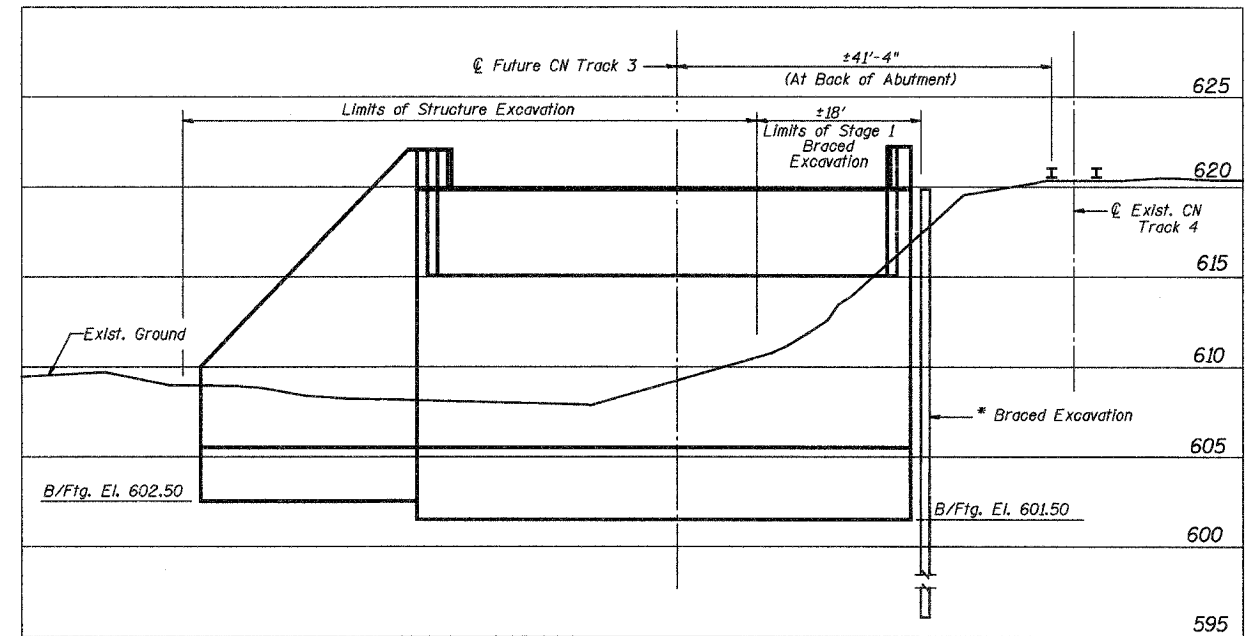
STAGE CONSTRUCTION SEQUENCE

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		3
	Checked DCS		of 30
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

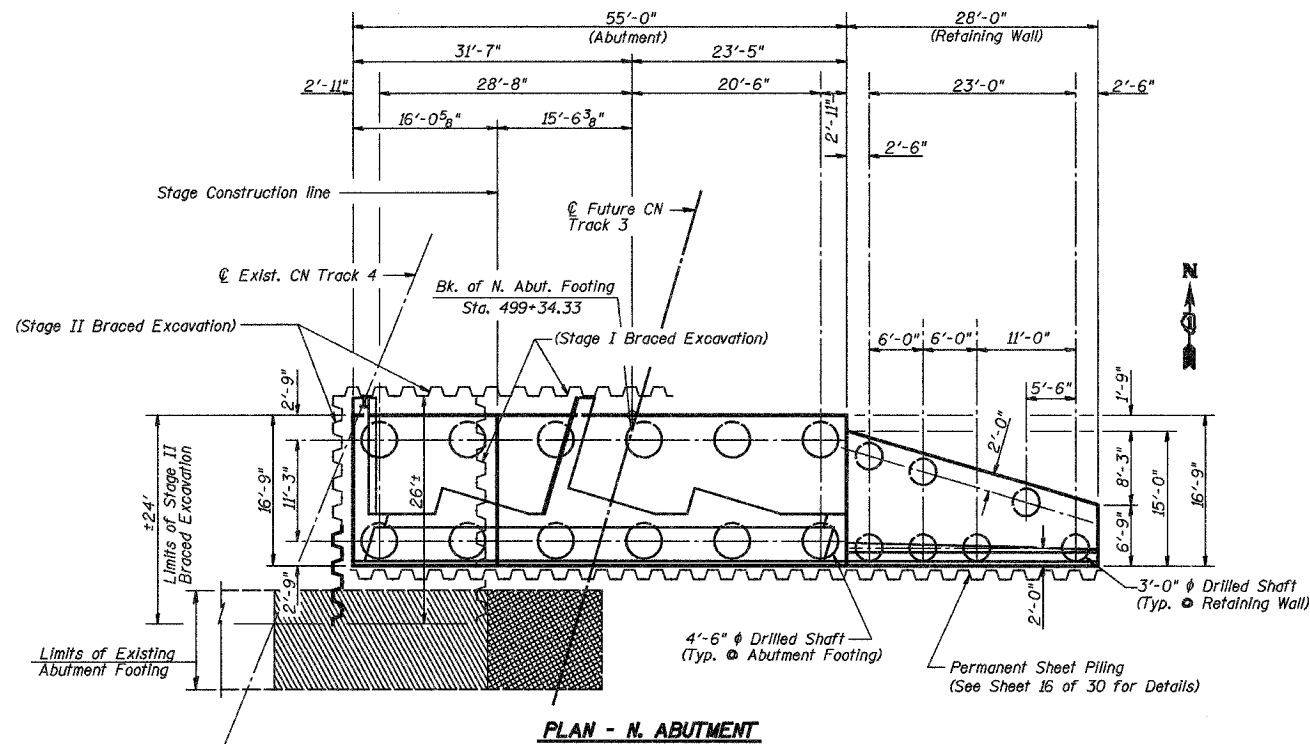
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	22
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



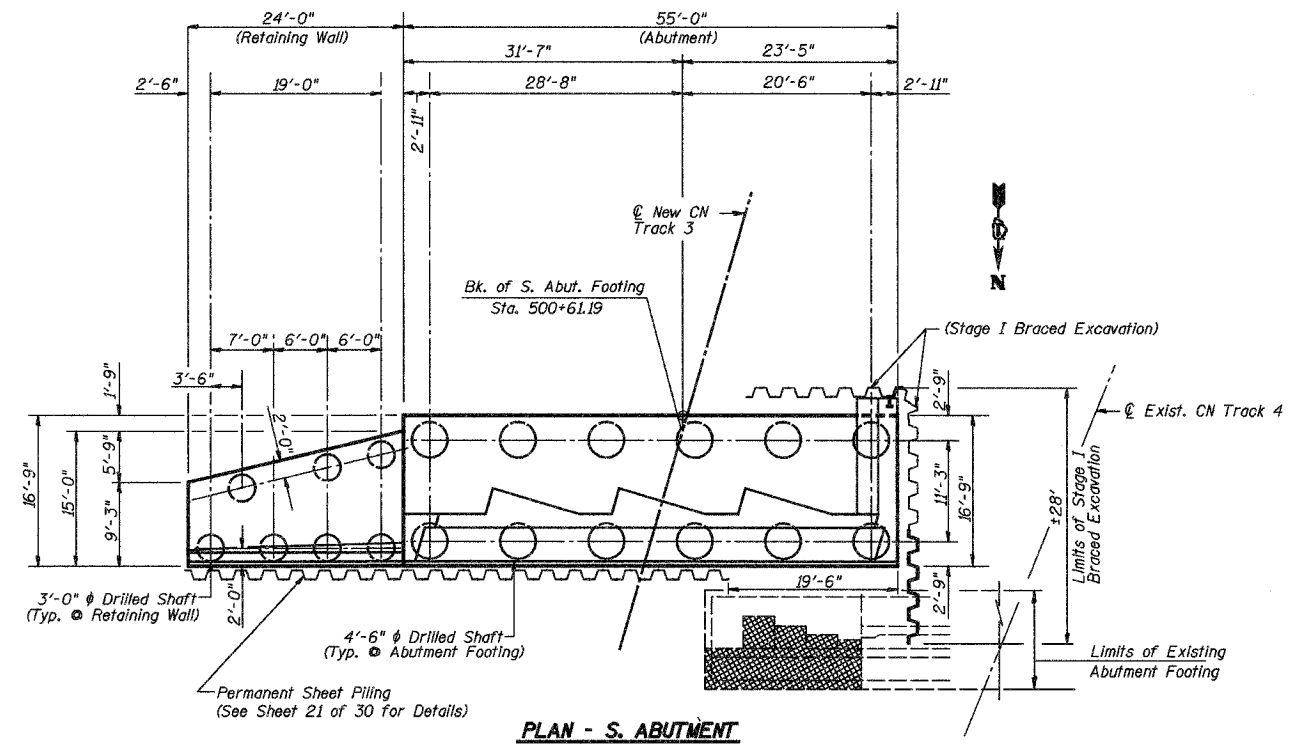
ELEVATION
(Looking North)





ELEVATION
(Looking South)



PLAN - N. ABUTMENT



PLAN - S. ABUTMENT

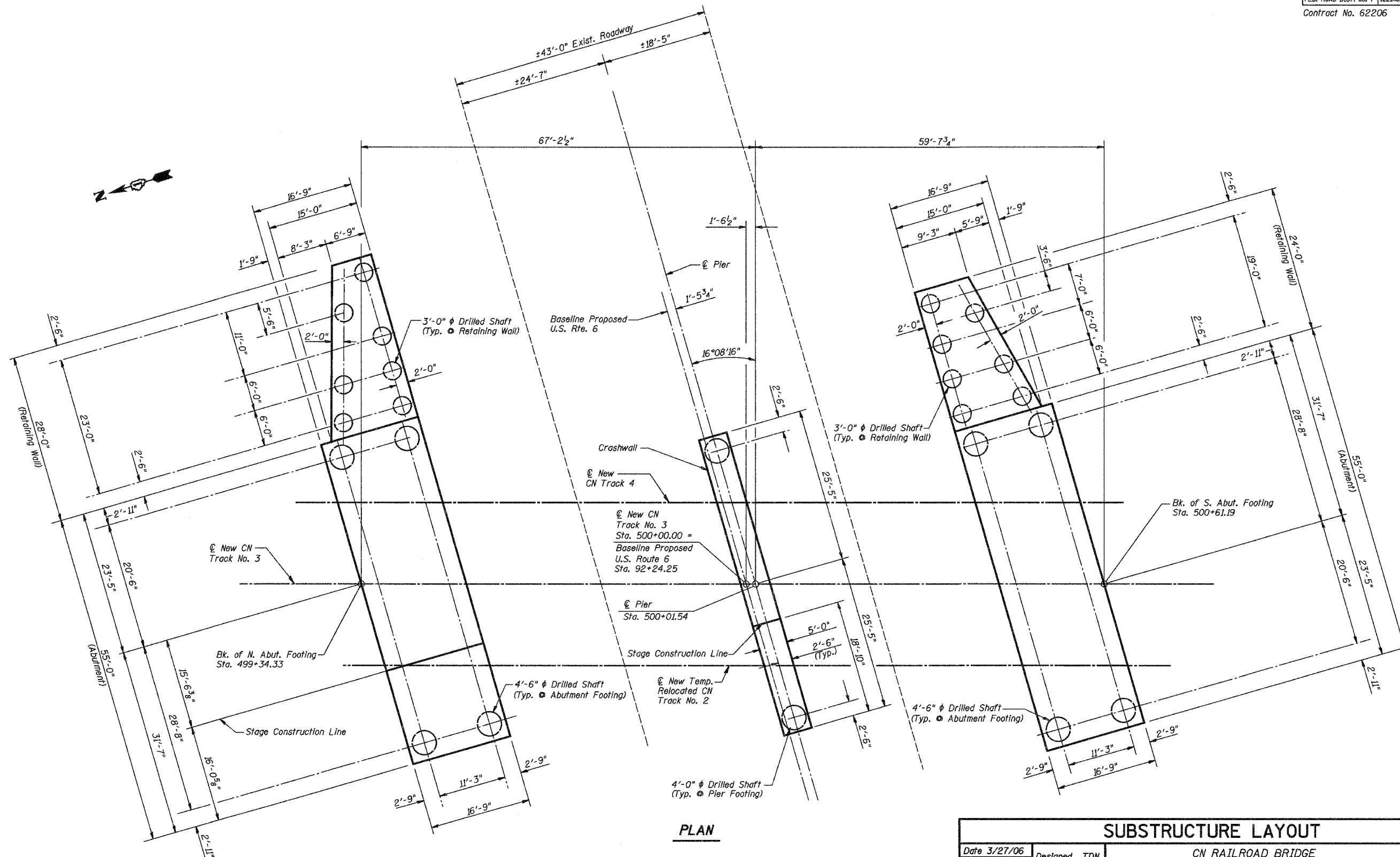
 Indicates Stage I Removal
 Indicates Stage II Removal

Note:
* Temporary and Permanent Sheet Piling at these locations for Braced Excavation shall be included in the cost of Braced Excavation. See Special Provisions.

BRACED EXCAVATION DETAILS			
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		4
	Checked DCS		of 30
	Approved KWB		URS Job No. 36430825
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	23
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



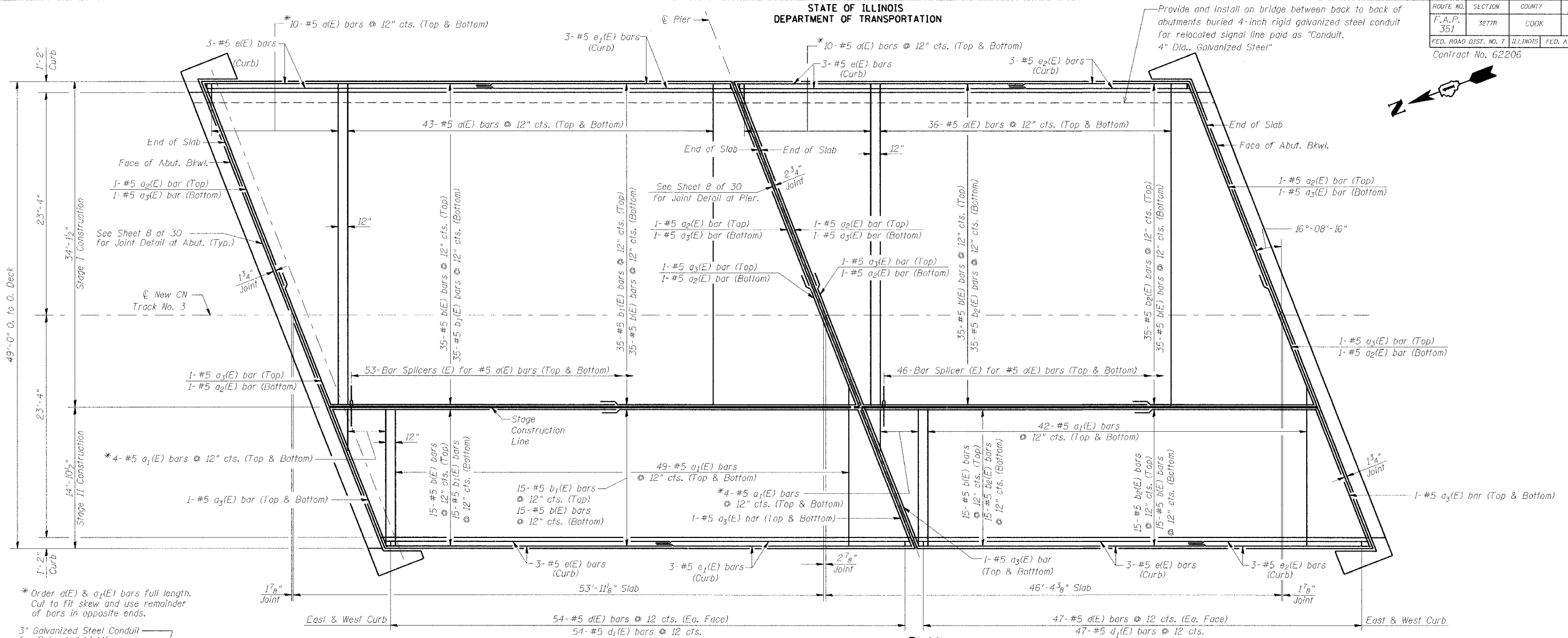
PLAN

SUBSTRUCTURE LAYOUT

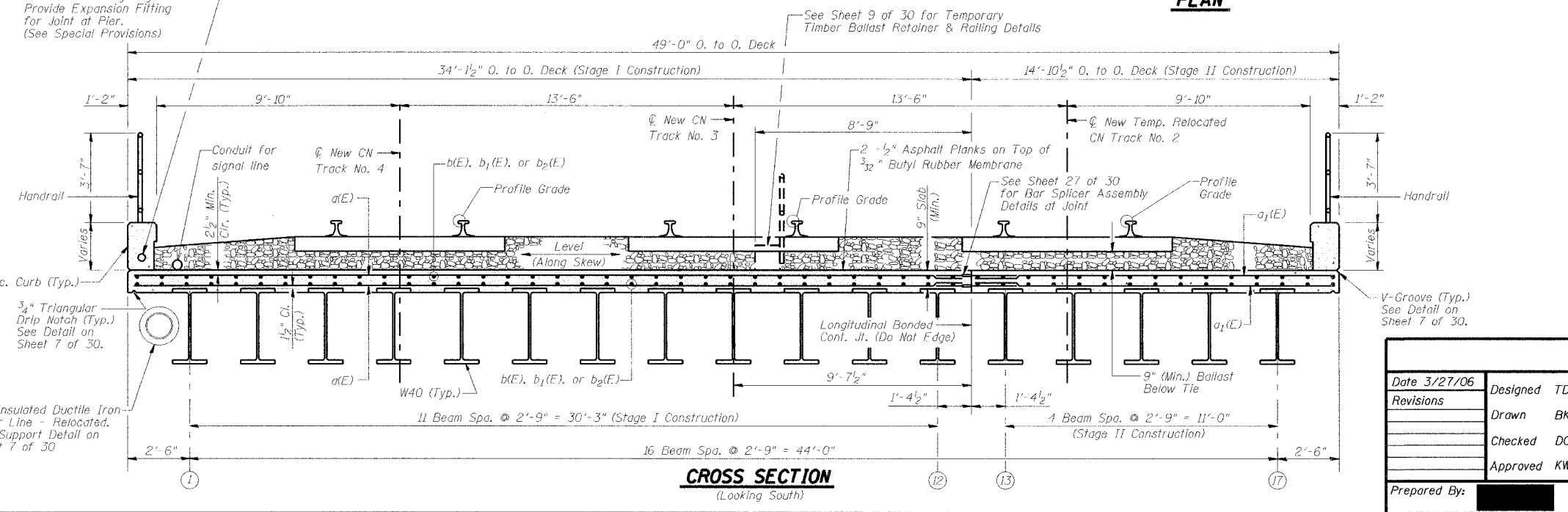
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		5
	Checked DCS		of 30
	Approved KWB		URS Job No.
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		36430825

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 351	SECTION 3277R	COUNTY COOK	TOTAL SHEETS 66	SHEET NO. 24
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
Contract No. 62206				



PLAN



CROSS SECTION
(Looking South)

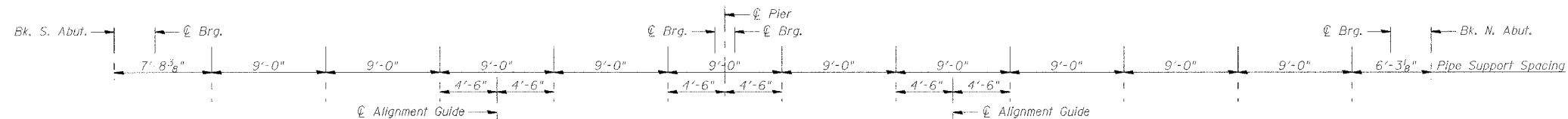
Min. Bar Lap
#5 = 1'-8"

Notes:
See Sheet 7 of 30 for Bill of Material.
See Sheet 9 of 30 for Temporary Ballast Retainer & Handrail Details.
See Sheet 27 of 30 for Bar Splicer Assembly Details.
Reinforcement bars designated (E) shall be epoxy coated.
Butyl Rubber Membrane shall be oriented to avoid splicing directly above the Stage Construction Deck Joint.

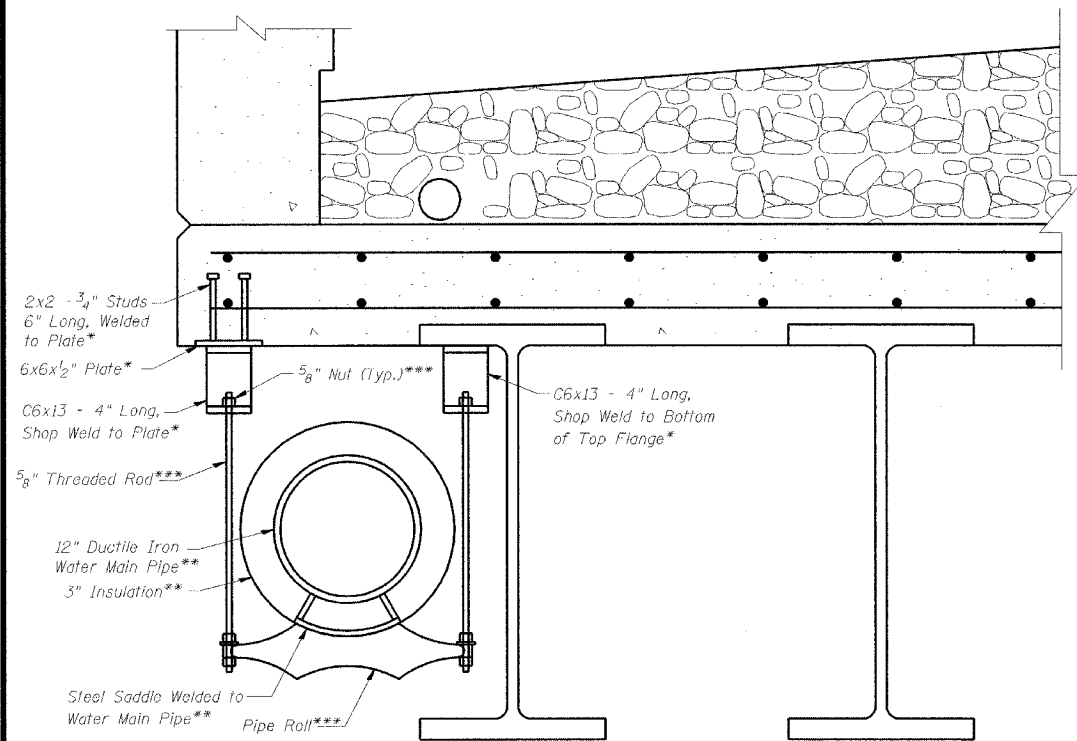
DATE 3/27/06		DESIGNED TDN		SUPERSTRUCTURE CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754		Sheet No.	
REVISIONS		DRAWN BKN				6 of 30	
		CHECKED DCS					
		APPROVED KWB					
PREPARED BY:		3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	25
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
Contract No. 62206				



WATER MAIN PIPE SUPPORT SPACING
(Looking West)



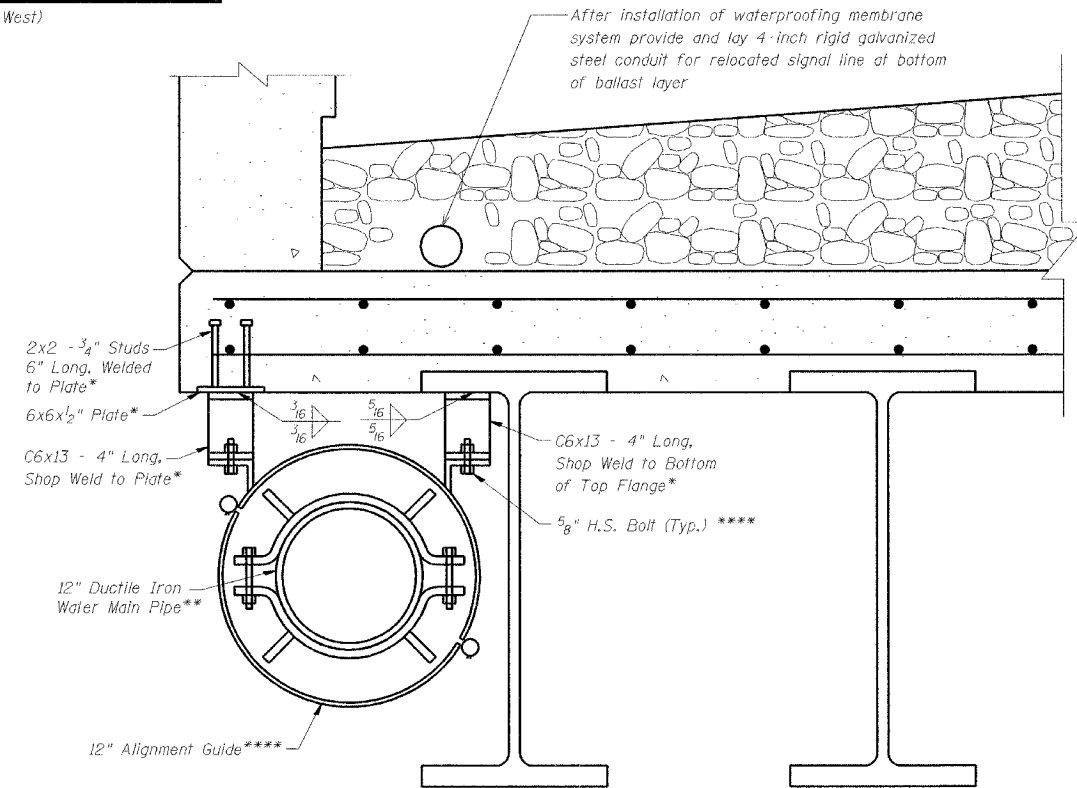
PIPE SUPPORT DETAIL

* Cost Of These Elements To Be Included In The Price Of Bid Item "Furnishing and Erecting Structural Steel"

** Cost Of These Elements To Be Included In The Price Of Bid Item "Water Main Relocation" (See Roadway Plans)

*** Cost Of These Elements To Be Included In The Price Of Bid Item "Pipe Support"

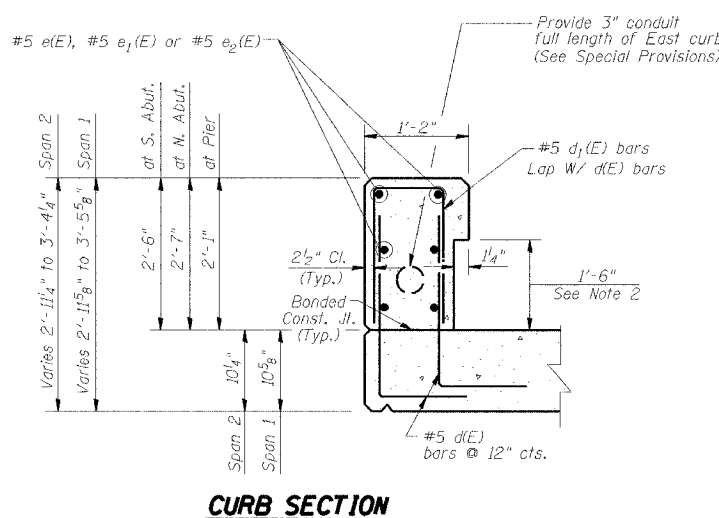
**** Cost Of These Elements To Be Included In The Price Of Bid Item "Alignment Guide"



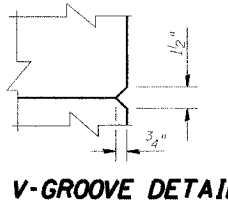
ALIGNMENT GUIDE DETAIL

SUPERSTRUCTURE BILL OF MATERIAL

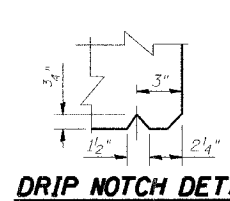
Bar	No.	Size	Length	Shape
a(E)	198	#5	33'-10"	—
a ₁ (E)	198	#5	14'-7"	—
a ₂ (E)	8	#5	21'-10"	—
a ₃ (E)	16	#5	15'-2"	—
b(E)	200	#5	30'-0"	—
b ₁ (E)	100	#5	25'-3"	—
b ₂ (E)	100	#5	17'-8"	—
d(E)	404	#5	3'-1"	⌋
d ₁ (E)	202	#5	4'-3"	⌋
e(E)	24	#5	30'-0"	—
e ₁ (E)	12	#5	25'-3"	—
e ₂ (E)	12	#5	17'-8"	—
Concrete Superstructure			Cu. Yd.	170.1
Reinforcement Bars, Epoxy Coated			Pound	24,660
Membrane Waterproofing (Special)			Sq. Ft.	5,773
Bar Splicers			Each	198
Pipe Support			Each	11
Alignment Guide			Each	2
Conduit Embedded in Structure, 3" Dia., Galvanized Steel			Foot	104
Conduit 4" Dia., Galvanized Steel			Foot	104



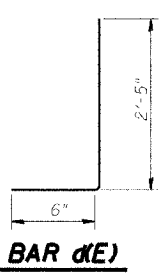
CURB SECTION



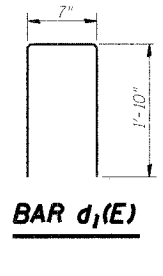
V-GROOVE DETAIL



DRIP NOTCH DETAIL



BAR d(E)



BAR d₁(E)

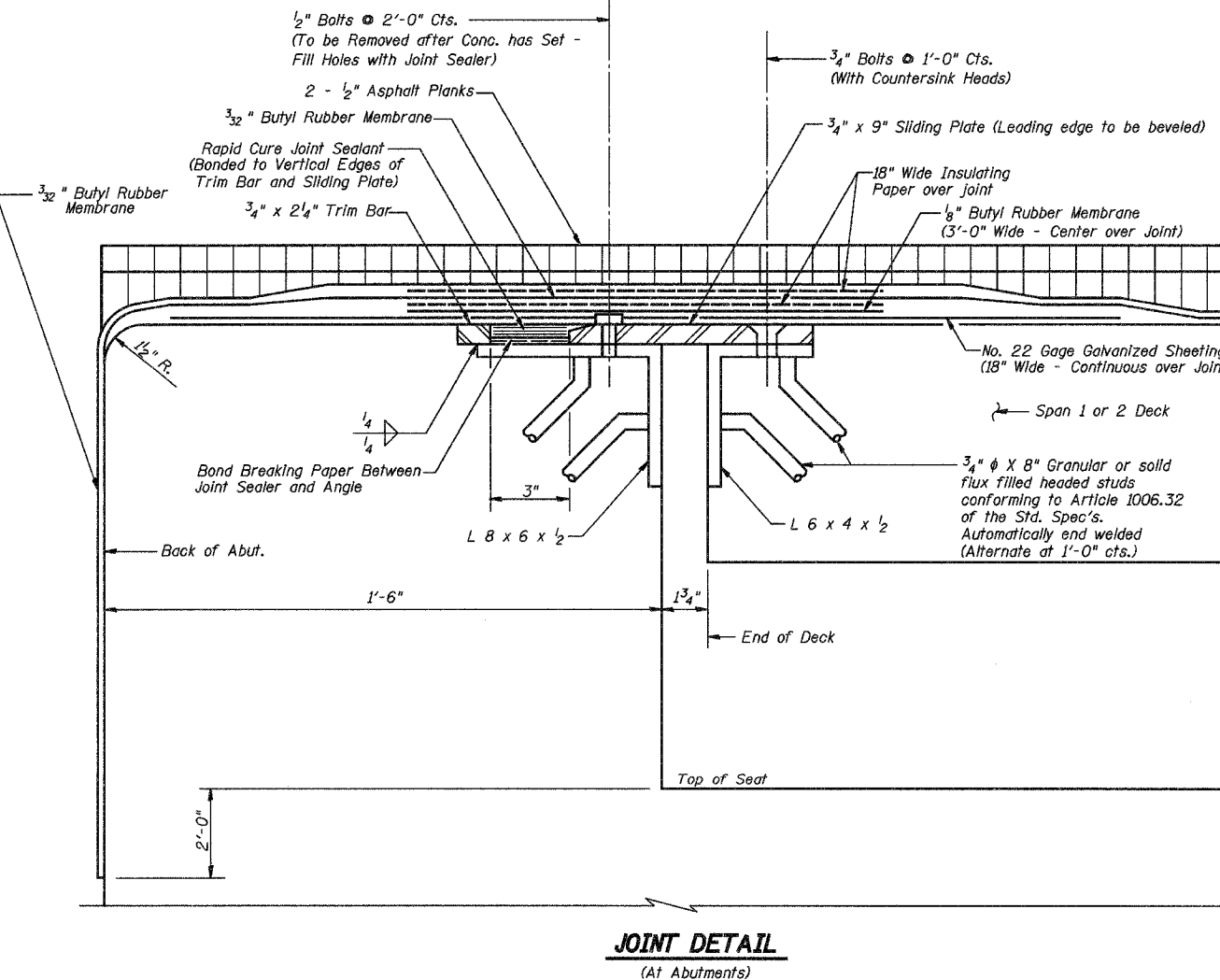
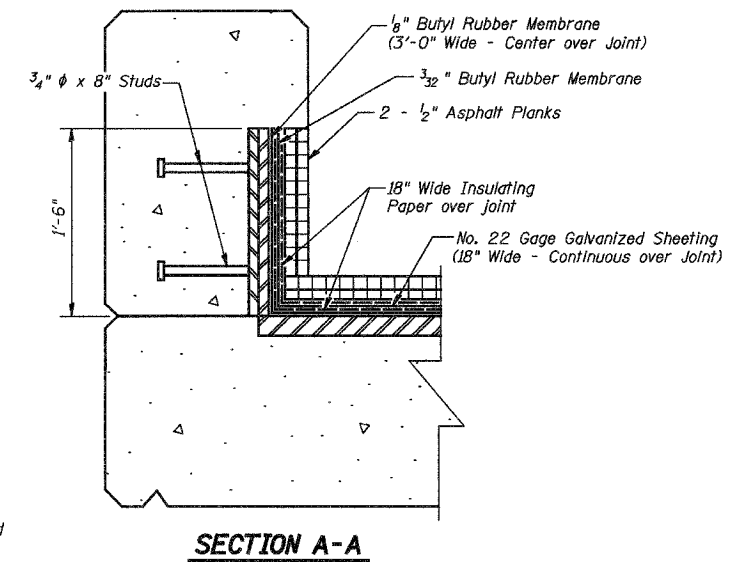
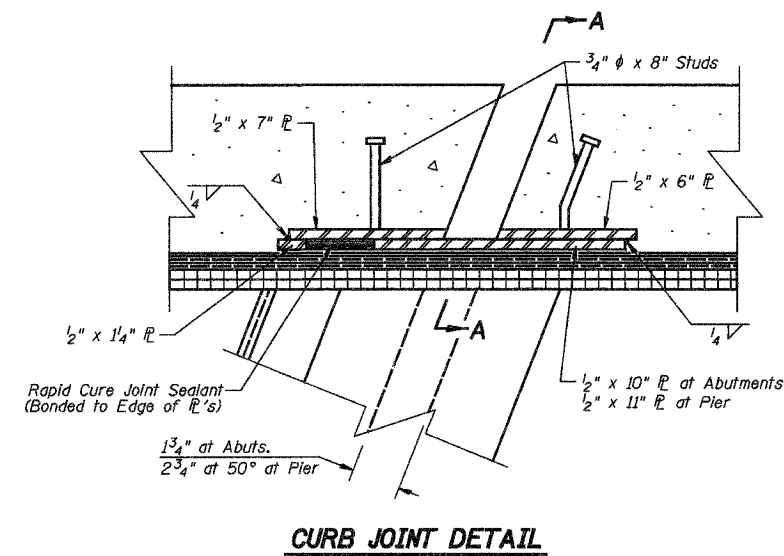
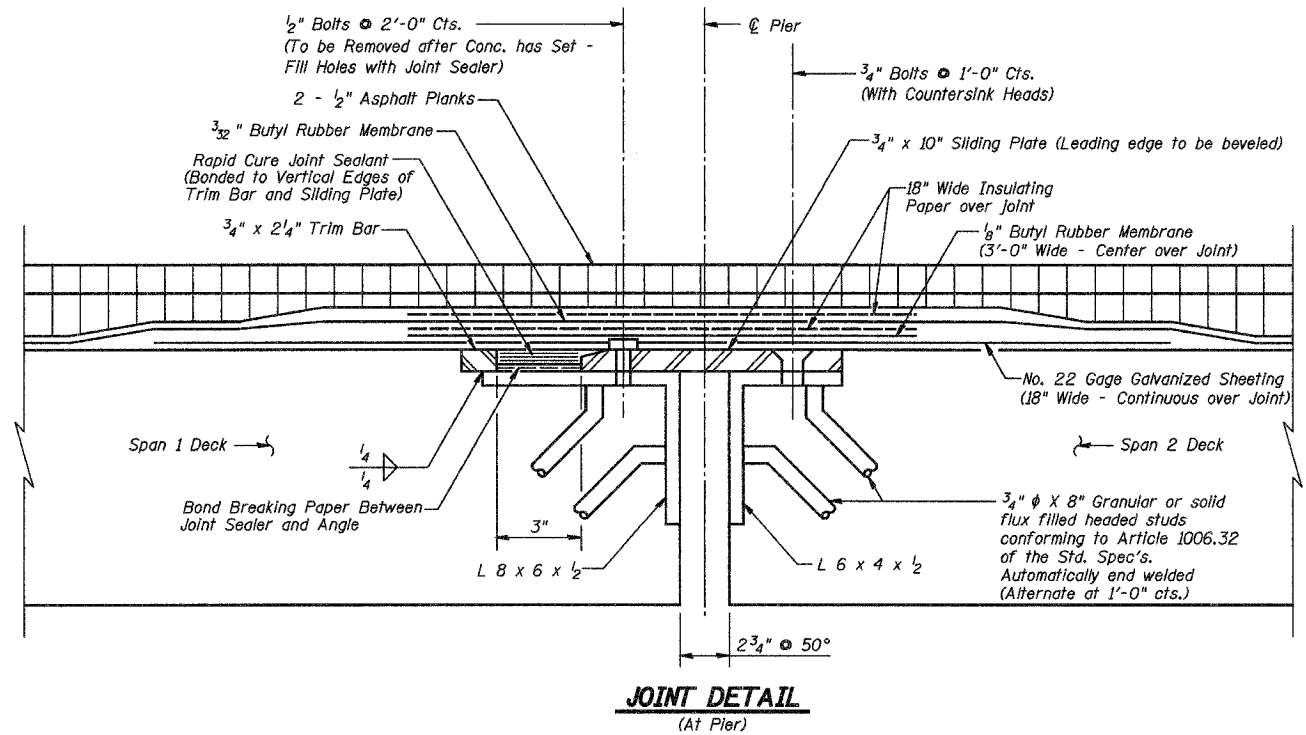
- Notes:
1. See Sheet 27 of 30 for Bar Splicer Details.
 2. Blockout for 3/32" Butyl Rubber Membrane and 2-1/2" Asphalt Planks.
 3. See Sheet 8 of 30 for Membrane Waterproofing Details at Joints.
 4. Reinforcement bars designated (E) shall be Epoxy Coated.
 5. All exposed edges shall have 3/4" chamfer, except as noted.

SUPERSTRUCTURE DETAILS

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No. 7 of 30
Revisions	Drawn BKN		
	Checked DCS		
	Approved KWB		
Prepared By: URS	3040 N. University Ave., Suite 1 Decatur, IL.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	26
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



Notes:

1. The Waterproofing material at the joints at the Abutments and Pier shall be applied in the following order:

1. Bond-Breaker Paper
2. Rapid Cure Joint Sealant
3. Galvanized Sheet
4. 1/8" Thick Butyl Rubber Membrane
5. Insulating Paper
6. The 3/32" Thick Butyl Rubber Membrane
7. Insulating Paper
8. Asphalt Plank
9. Map Coat of Hot Asphalt

Material shall be included in cost of Membrane Waterproofing (Special)

2. Plates, angles & studs included in cost of Furnishing & Erecting Structural Steel.

3. Steel Angles, Trim Bar, Studs and Sliding Plates shall be Hot Dip Galvanized after Fabrication per ASTM A123 (AASHTO M111). Countersunk Head Bolts shall be Galvanized per ASTM A153 (AASHTO M232).

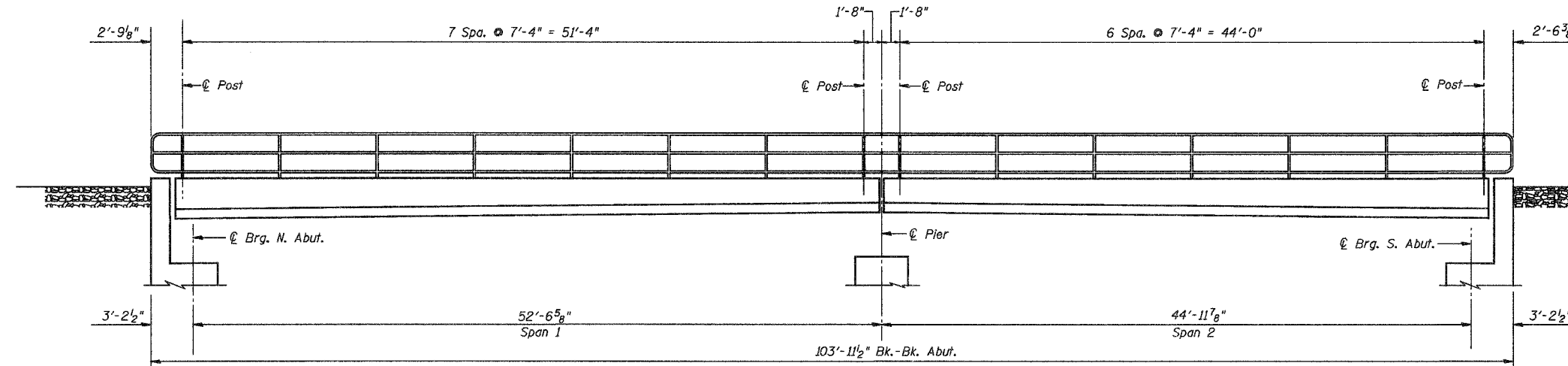
JOINT DETAILS

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn SRS		8
	Checked DCS		of 30
	Approved KWB		URS Job No.
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		36430825

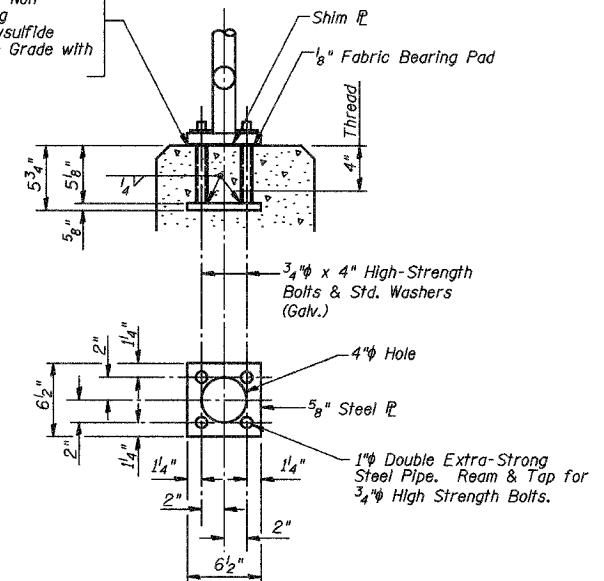
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	27
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT-		

Contract No. 62206



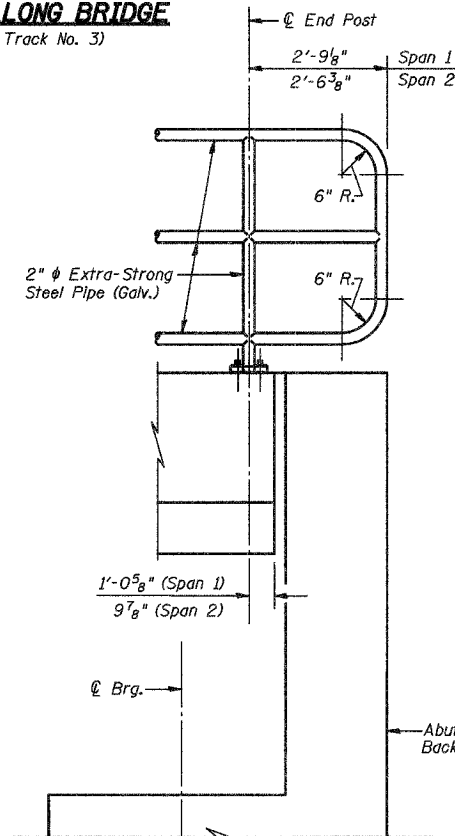
Base of Post Shall be Sealed with Two Component Non-Staining Gray Sealing Compounds with Polysulfide Liquid Polymers-Gun Grade with Primer.



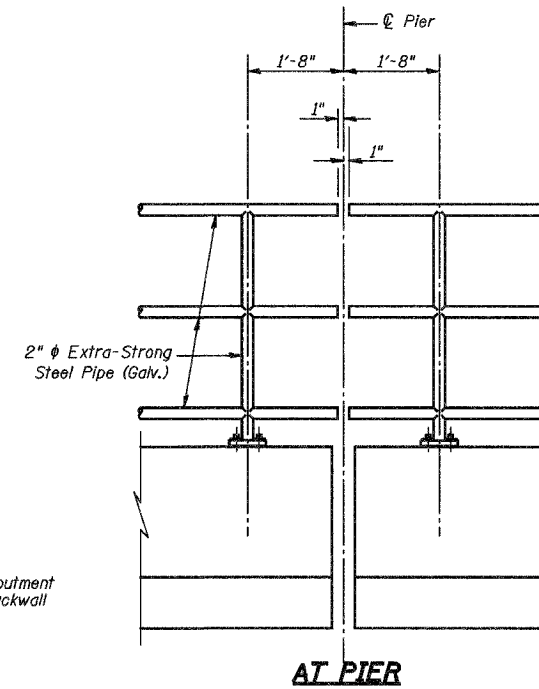
ANCHOR DEVICE

ELEVATION OF HANDRAIL ALONG BRIDGE

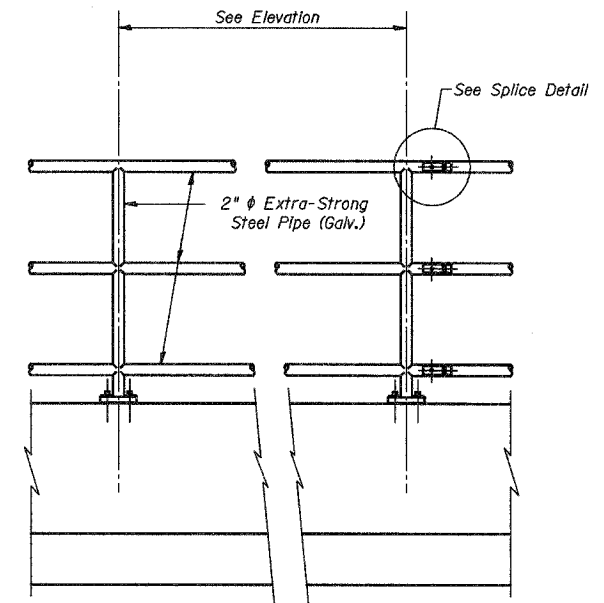
(All Dimensions are Along \bar{C} New CN Track No. 3)
(E. Side Shown)



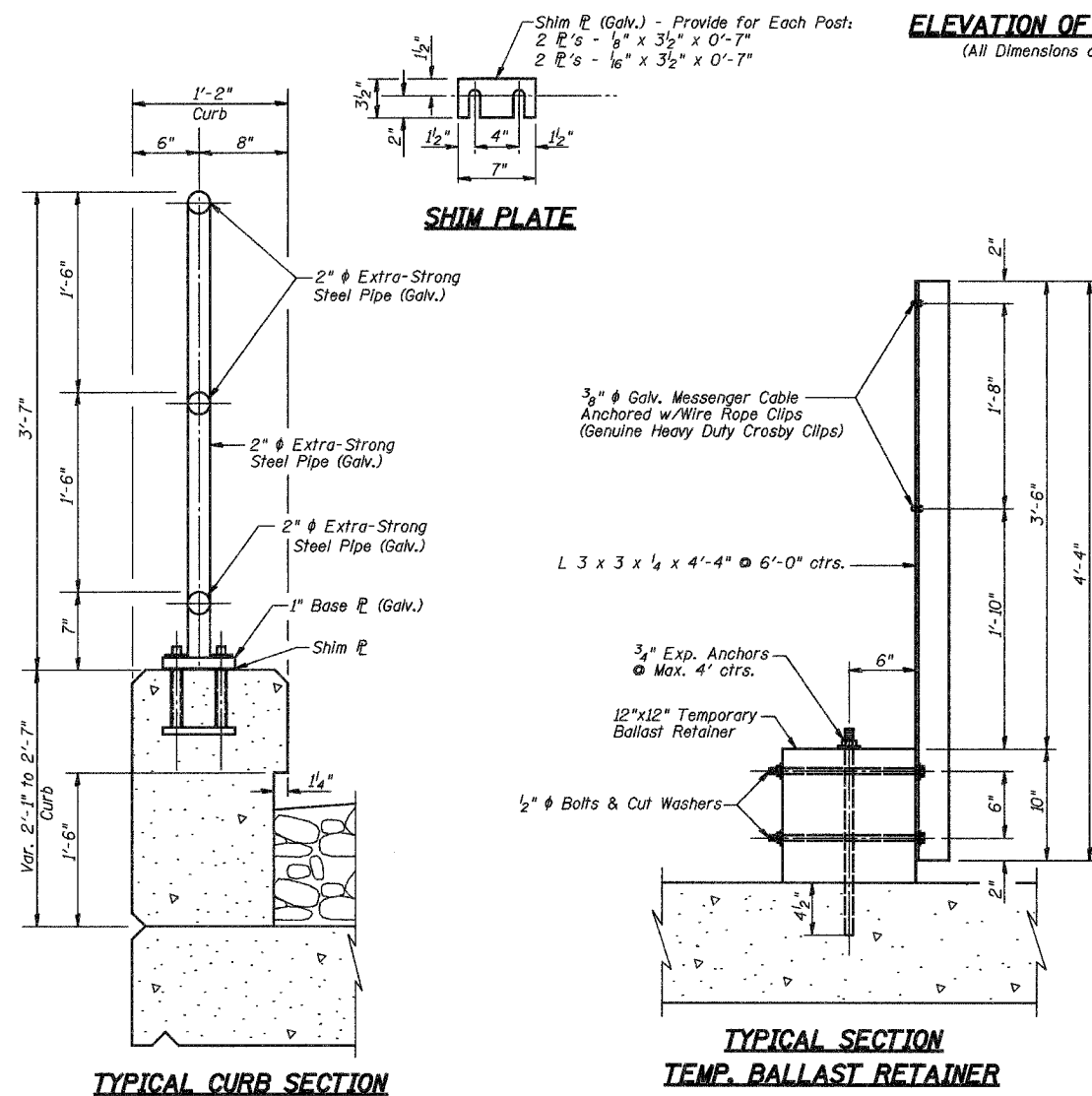
END POST



AT PIER

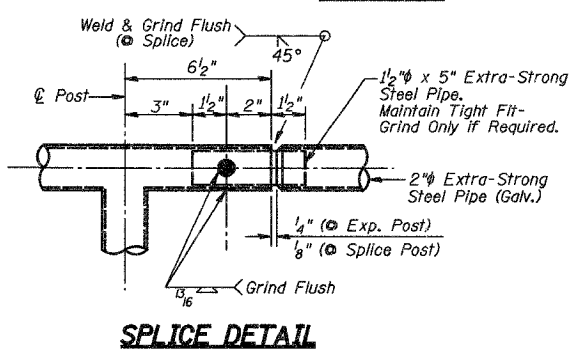


TYPICAL PANEL



TYPICAL CURB SECTION

TYPICAL SECTION TEMP. BALLAST RETAINER



SPLICE DETAIL

Note:
The Temporary Ballast Retainer & Safety Railing is to be removed at the completion of Stage II work.
All bolts, nuts & washers shall be galvanized according to AASHTO M 232
All post, pipe, pipe splices and base and shim plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized pipe shall not be painted.

BILL OF MATERIAL

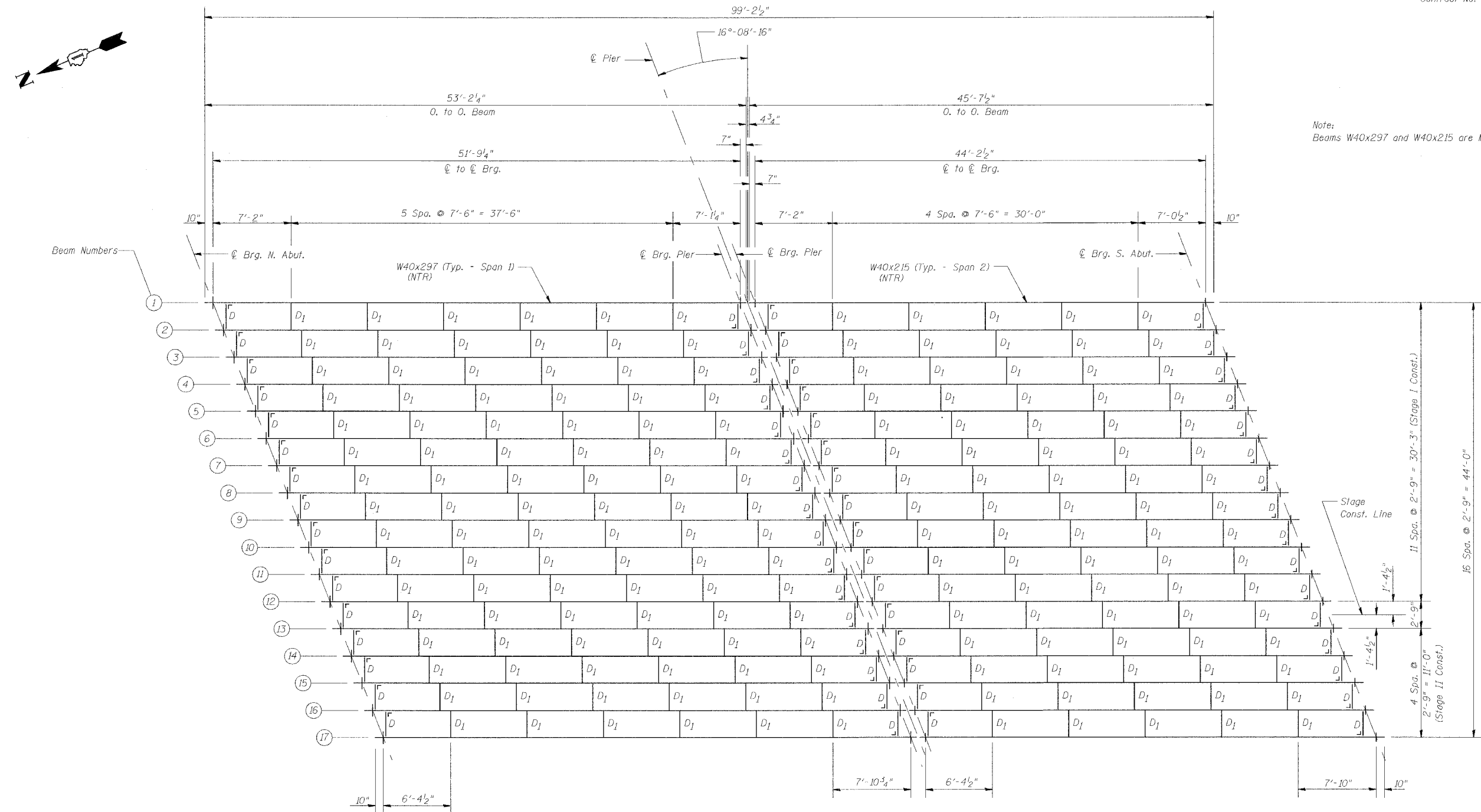
Item	Unit	Quantity
Pipe Handrail, Special	Foot	208
Temporary Ballast Retainer (Installed and Removed)	Foot	104

HANDRAIL DETAILS

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		9
	Checked DCS		of 30
	Approved KWB		URS Job No.
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		36430825

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	28
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



Note:
Beams W40x297 and W40x215 are M270 Gr. 50 (NTR).

FRAMING PLAN

FRAMING PLAN		Sheet No.
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754
Revisions	Drawn SRS	
	Checked KWB	
	Approved KWB	
Prepared By:	URS 3040 N. University Ave., Suite 1 Decatur, IL.	10 of 30
		URS Job No. 36430825

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	29
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				

INTERIOR BEAM MOMENT TABLE		
	0.5 Span 1	0.5 Span 2
I (in ⁴)	23200	16700
S (in ³)	1170	858
Q (k/ft.)	1.63	1.52
M _P (k)	547.62	372.38
M _L (k)	822.43	668.25
M _{Impact} (k)	539.01	446.69
M _{ecc} (k)	74.77	60.75
M _{Total} (k)	1983.83	1548.07
F _b (k.s.i.)	20.35	21.65
F _b (k.s.i.)	27.50	27.50
($\frac{1}{8}$ + I) Deflection (in.)	0.976	0.810
Allowable ($\frac{1}{8}$ + I) Deflection (in.)	0.971	0.829

I and S are the moment of inertia and section modulus of the steel section used in computing bending stress, f_b .

M_L is the live load moment due to the Cooper E80 loading or the Alternate loading.

M_{Impact} is the impact moment due to equipment with hammer blow.

M_{ecc} is the moment due to the eccentricity of the track relative to the beam group.

f_b is the total bending stress due to M_{Total} .

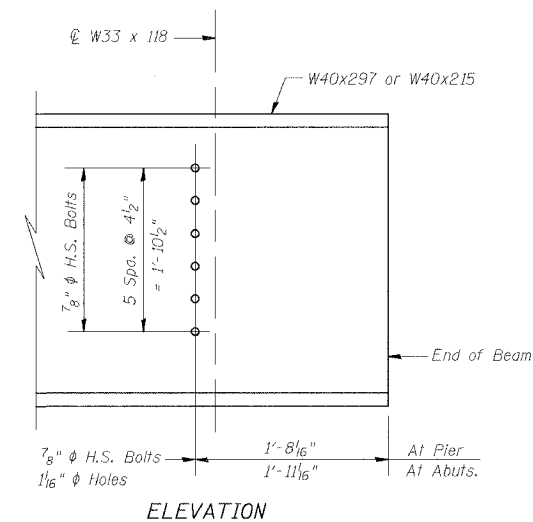
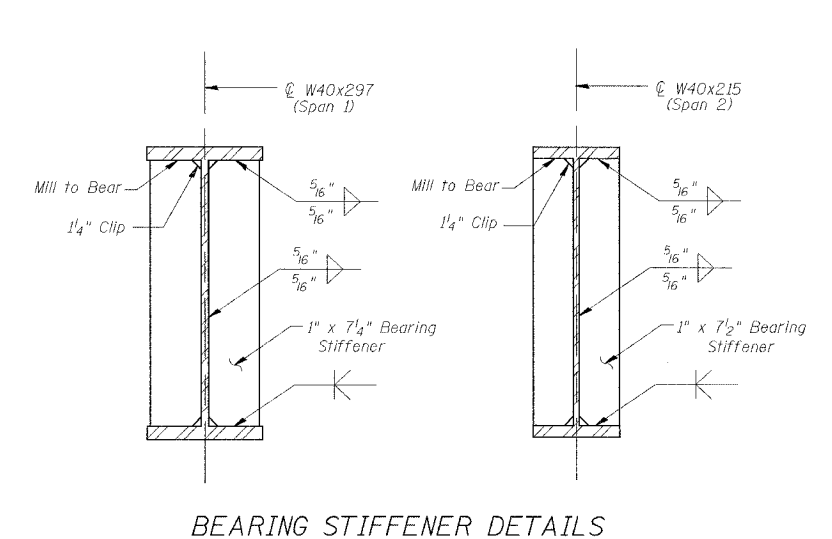
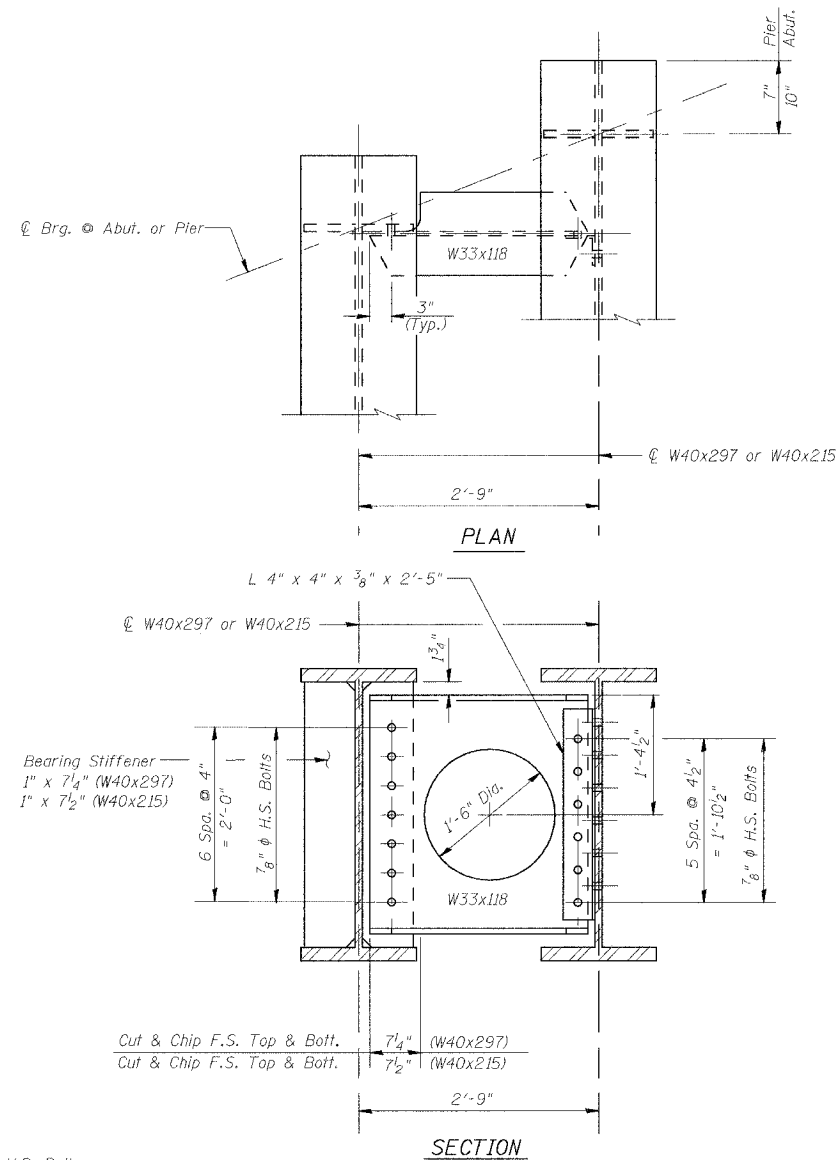
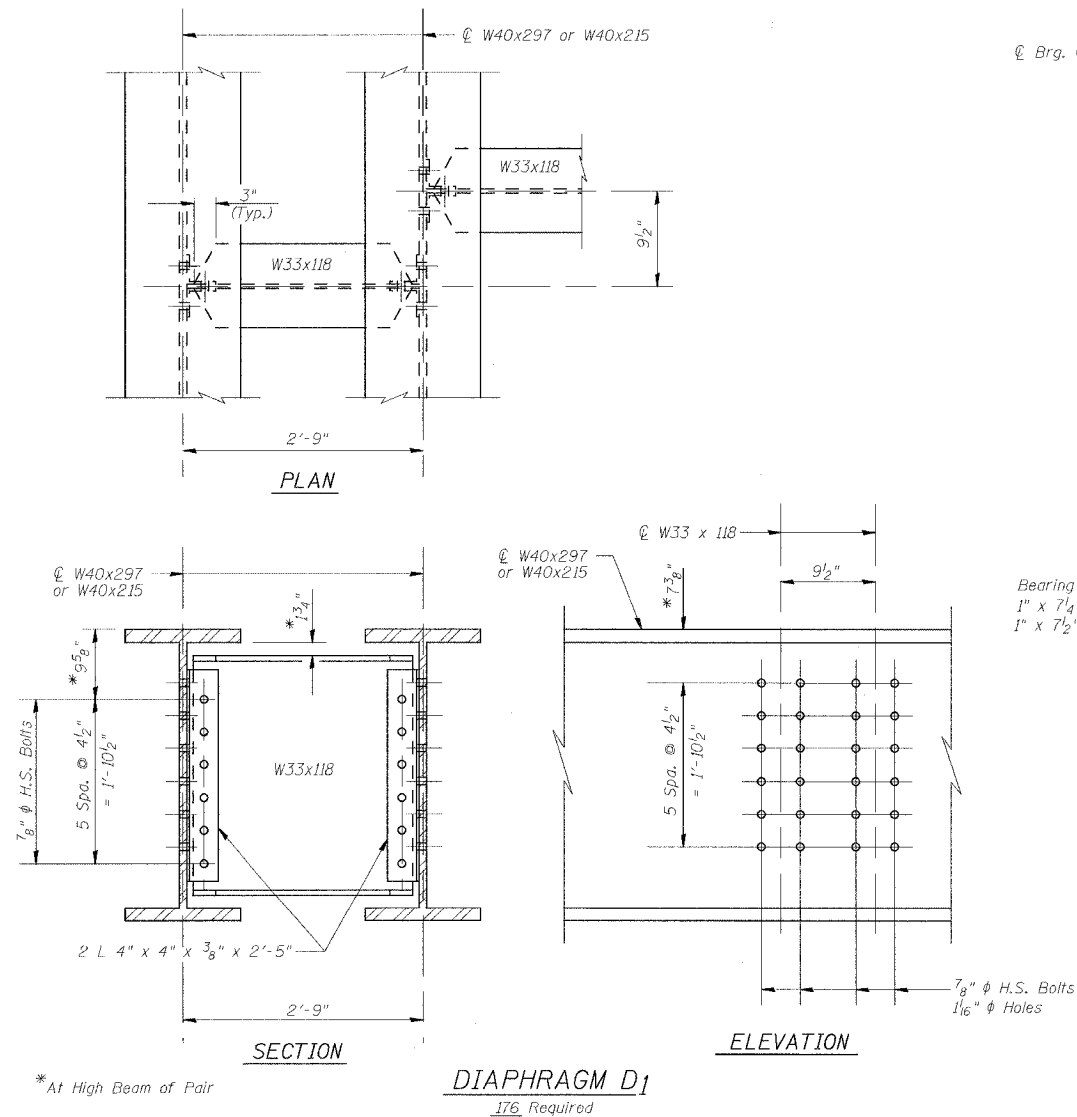
F_b is the maximum allowable bending stress computed according to AREMA.

REACTION TABLE		
	Span 1	Span 2
R _P (k)	42.31	33.69
R _L (k)	71.31	65.49
R _{Impact} (k)	46.73	43.78
R _{ecc} (k)	6.48	5.95
R _{Total} (k)	166.83	148.91

*TOP OF BEAM ELEVATIONS

Location	Beams 1 Thru 17
@ Brg. N. Abut.	618.90
@ N. Brg. Pier	619.42
@ S. Brg. Pier	619.42
@ Brg. S. Abut.	618.98

*For Fabrication only

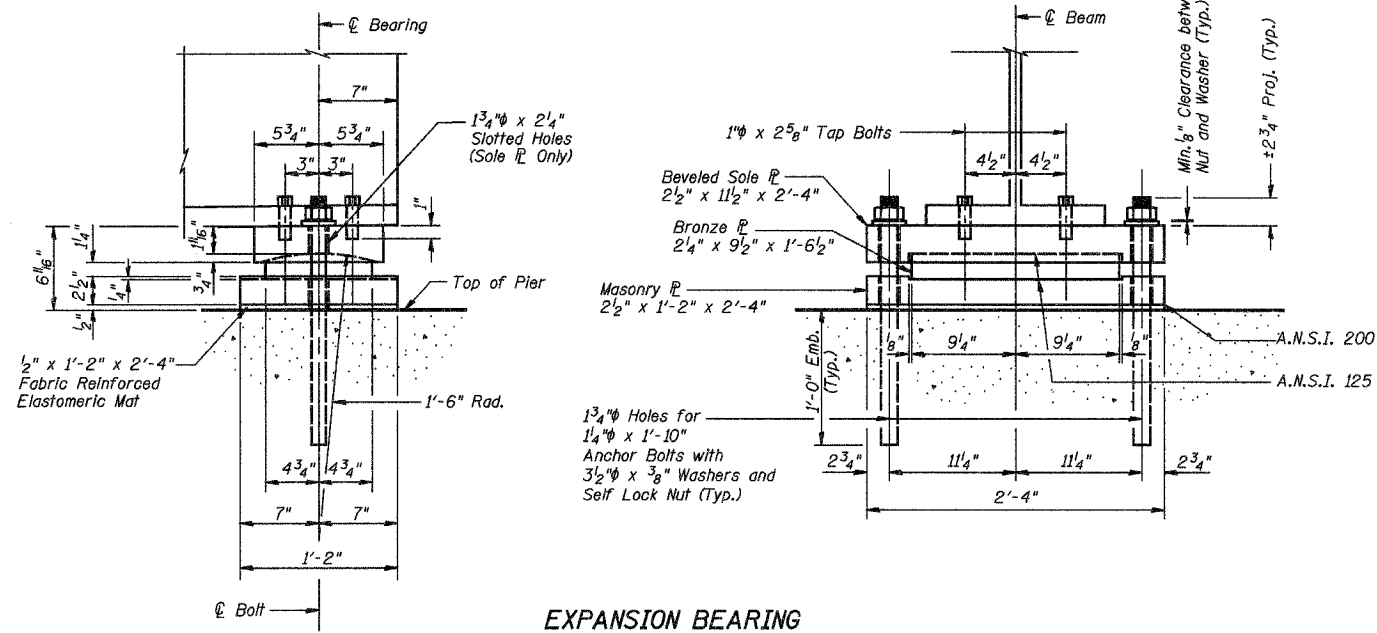


BEAM DETAILS			Sheet No.
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	11
Revisions	Drawn BKN		
	Checked DCS		
	Approved KWB		
Prepared By:	URS		
3040 N. University Ave., Suite 1 Decatur, IL.			of 30
			URS Job No. 36430825

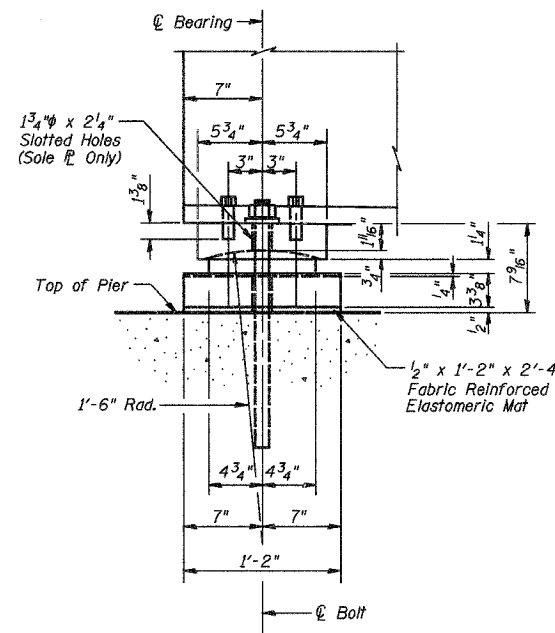
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	30
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

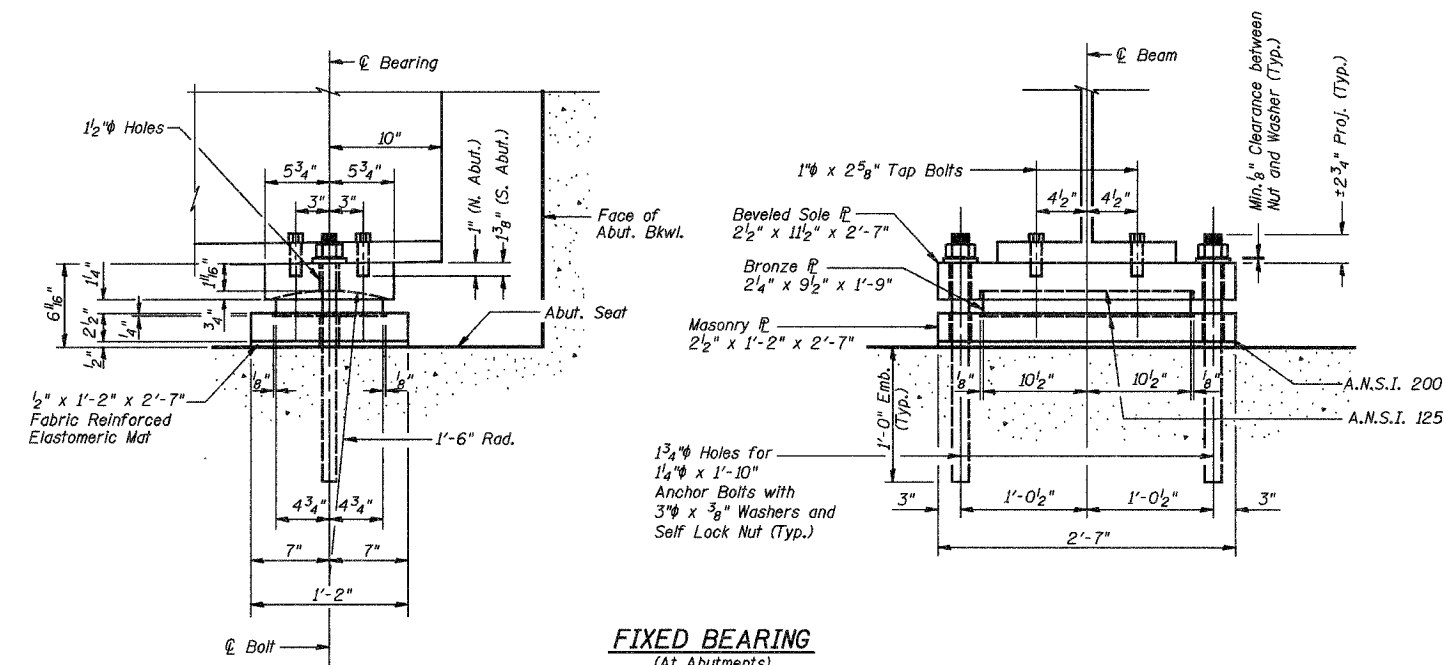
Contract No. 62206



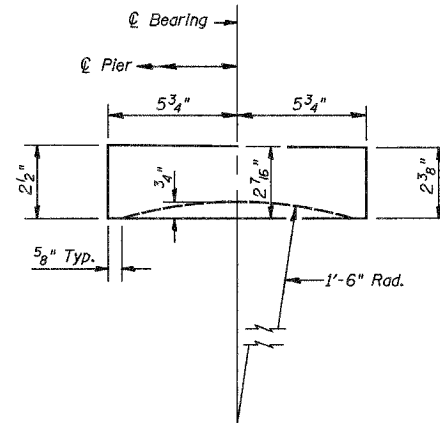
EXPANSION BEARING
(At Pier - Span 1)



EXPANSION BEARING
(At Pier - Span 2)



FIXED BEARING
(At Abutments)



BEVELED SOLE PLATE

BEARING NOTES

All material for Sole Plates and Masonry Plates shall conform to A.S.T.M. specification A36 Steel.

Bronze Bearing and Expansion Plates shall conform to A.S.T.M. B22, Alloy C91300 or C91100. Solid lubricant shall be in accordance with A.R.E.M.A. Chapter 19, Section 1.4.2.3. Cost included in Furnishing and Erecting Structural Steel.

All Structural Steel Bearing Plates shall be Flat Rolled Steel Plates with all surfaces smooth and free from warp and all edges smooth, straight and verticle.

All Plate cuts shall be Machine or Machine Flame Cuts.

Anchor Bolts shall be high-strength carbon steel conforming to the requirements of ASTM A193, Grade B7 and zinc plated (ASTM B633). Nuts shall meet the requirements of ASTM A563, Grade DH and washers shall meet the requirements of ASTM F436.

See Special Provisions for Fabric Reinforced Elastomeric Mat. Cost Included in Concrete Structures.

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming. Anchors shall not be disturbed until cure time has elapsed.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

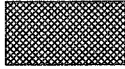

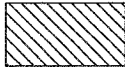
BEARING DETAILS

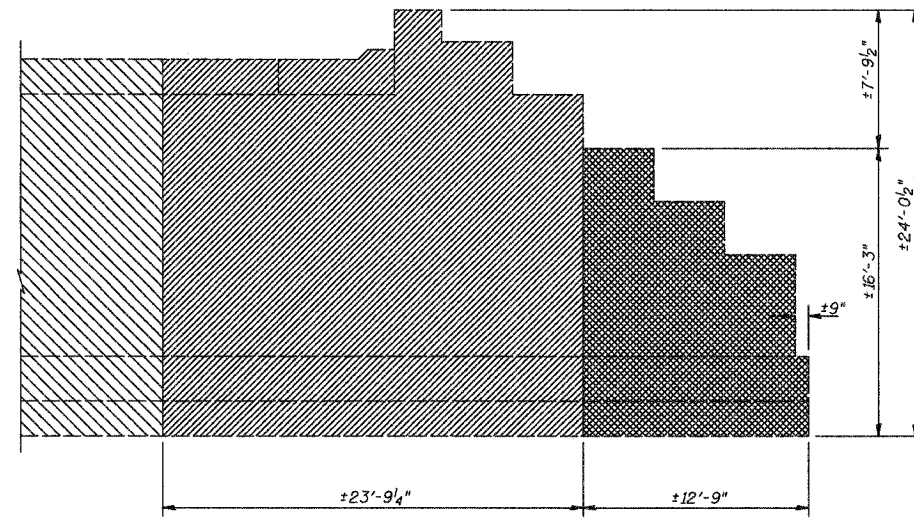
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		12
	Checked DCS		of 30
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

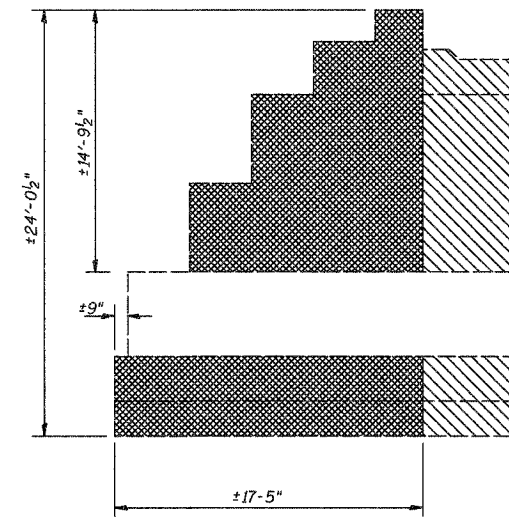
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				

LEGEND

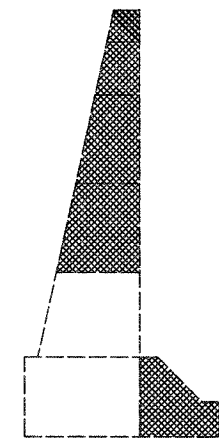
	Stage I Removal
	Stage II Removal
	Future Removal (By Others)



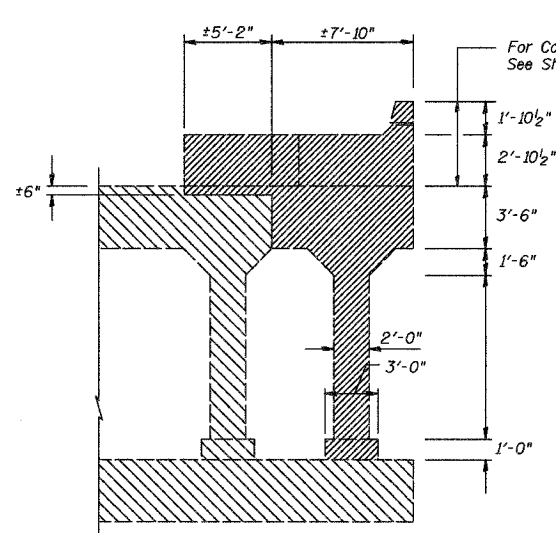
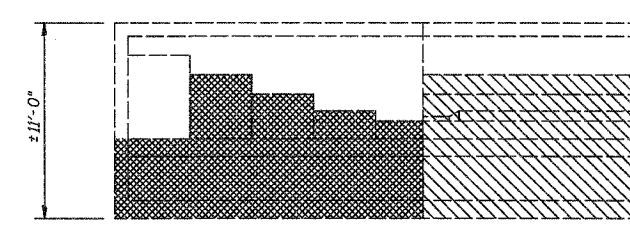
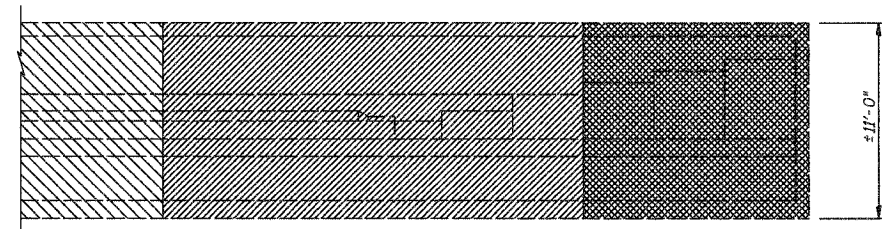
ELEVATION - NORTH ABUTMENT
(Looking North)



ELEVATION - SOUTH ABUTMENT
(Looking South)

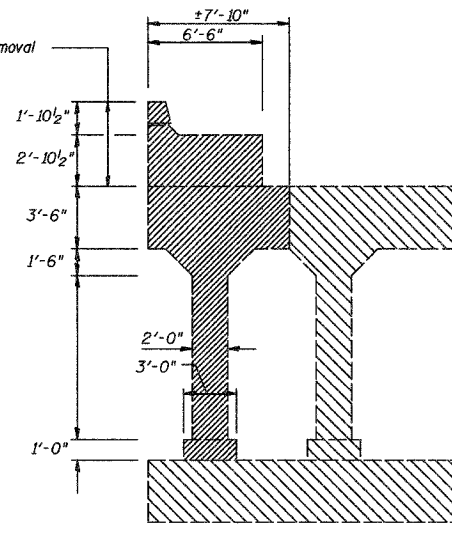


END VIEW - SOUTH ABUTMENT
(Looking West)



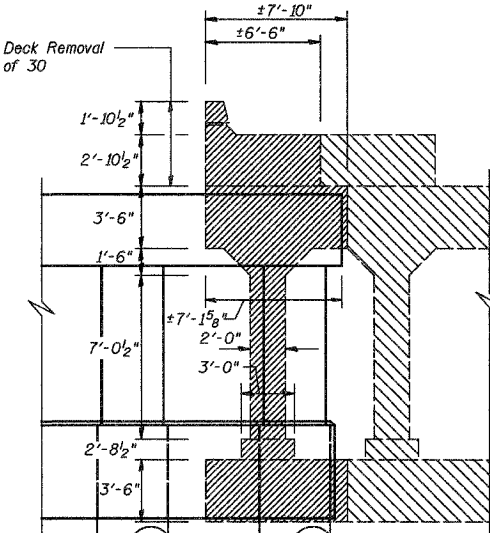
CONCRETE REMOVAL - NORTH PIER
(Looking North)

For Concrete Deck Removal
See Sheet 14 of 30



CONCRETE REMOVAL - SOUTH PIER
(Looking South)

For Concrete Deck Removal
See Sheet 14 of 30



CONCRETE REMOVAL - CENTER PIER
(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	182.0

Note:

Stage I and II Concrete Removal are included in this Contract.

Future Concrete Removal shall be completed by others in a later Contract.

See Typical Sections sheet of roadway plans for Commonwealth Edison duct bank facility under north sidewalk immediately adjacent to location of proposed north abutment and sidewalk retaining wall.

CONCRETE REMOVAL DETAILS

Date 3/27/06	Designed TDN
Revisions	Drawn BKN
	Checked DCS
	Approved KWB

CN RAILROAD BRIDGE
OVER U.S. 6 (159TH STREET)
F.A.P. RTE. 351 SECTION 3277R
COOK COUNTY
STATION 92+24.25
STRUCTURE NO. 016-2754

Sheet No.

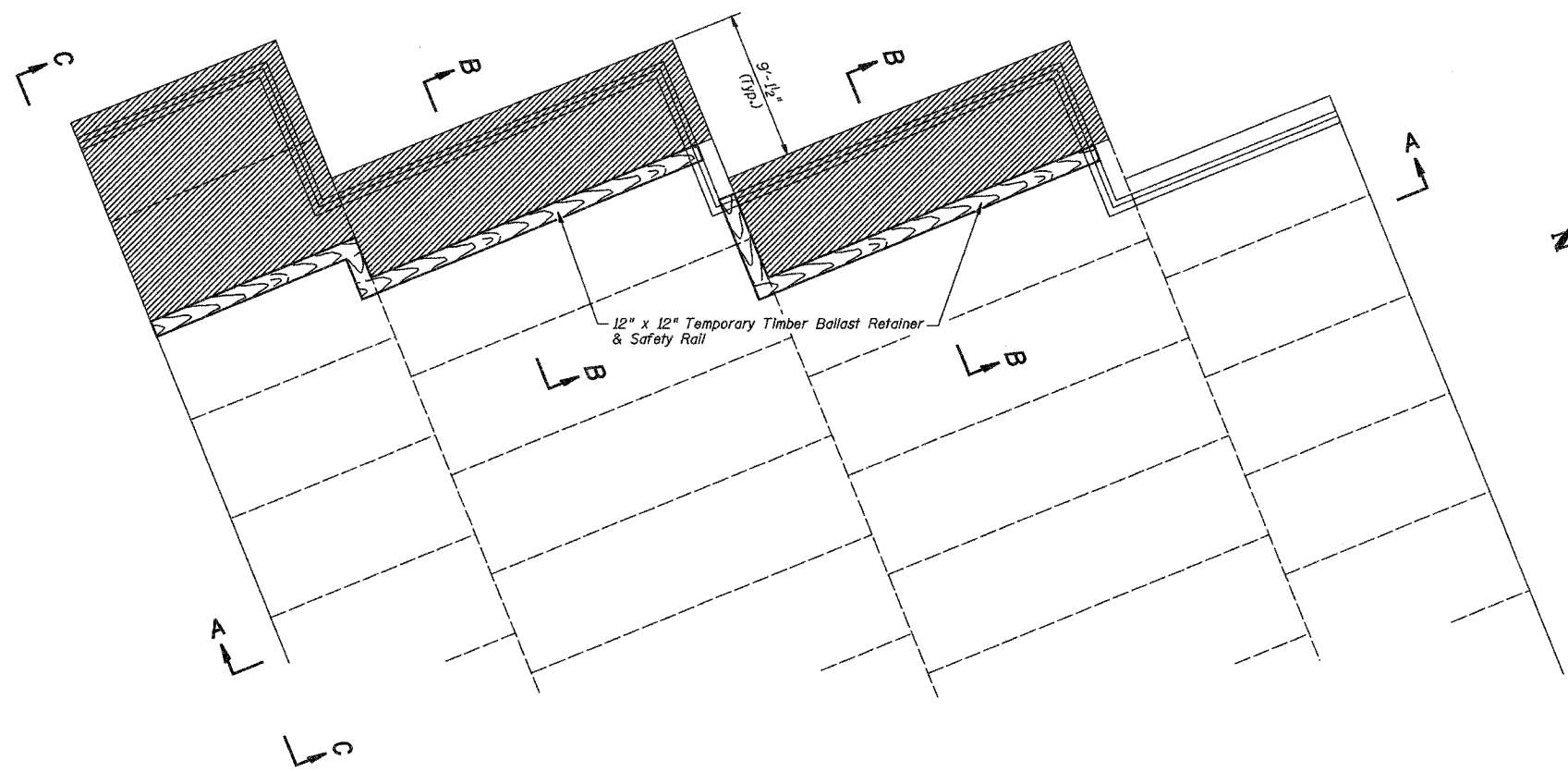
13

of 30

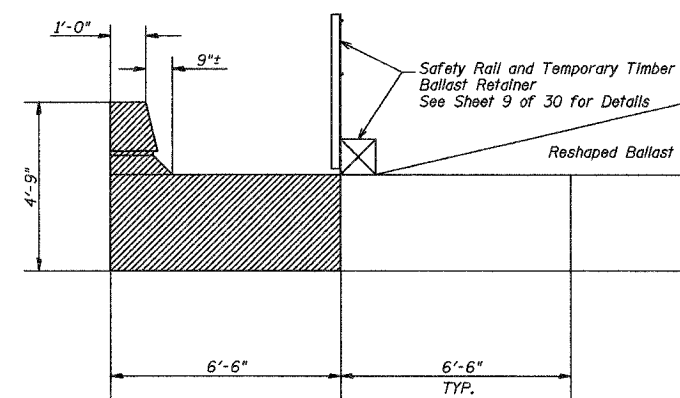
Prepared By: 3040 N. University Ave., Suite 1
Decatur, IL.

URS Job No.
36430825

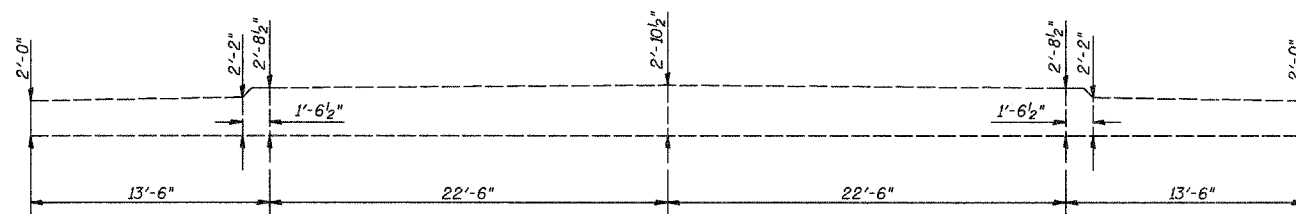
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	32
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



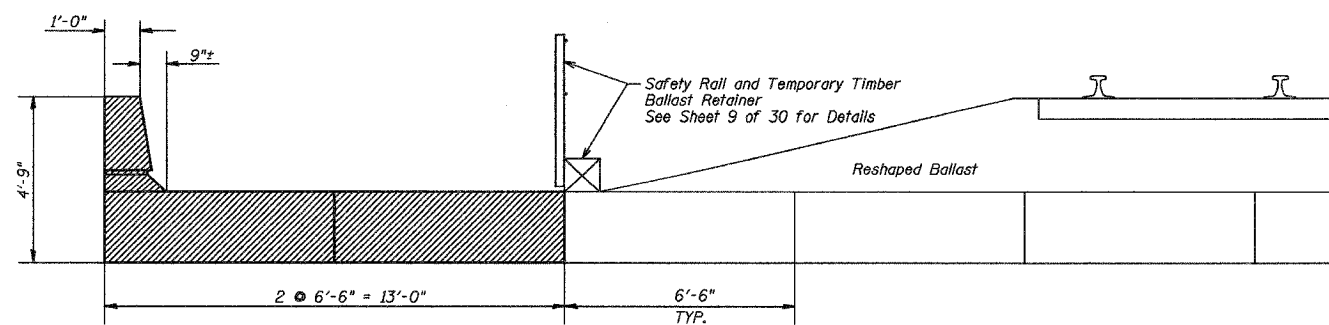
LEGEND



SECTION B-B



SECTION A-A



SECTION C-C

Note:

The Temporary Ballast Retainer & Safety Railing are to remain in place upon completion of the work.

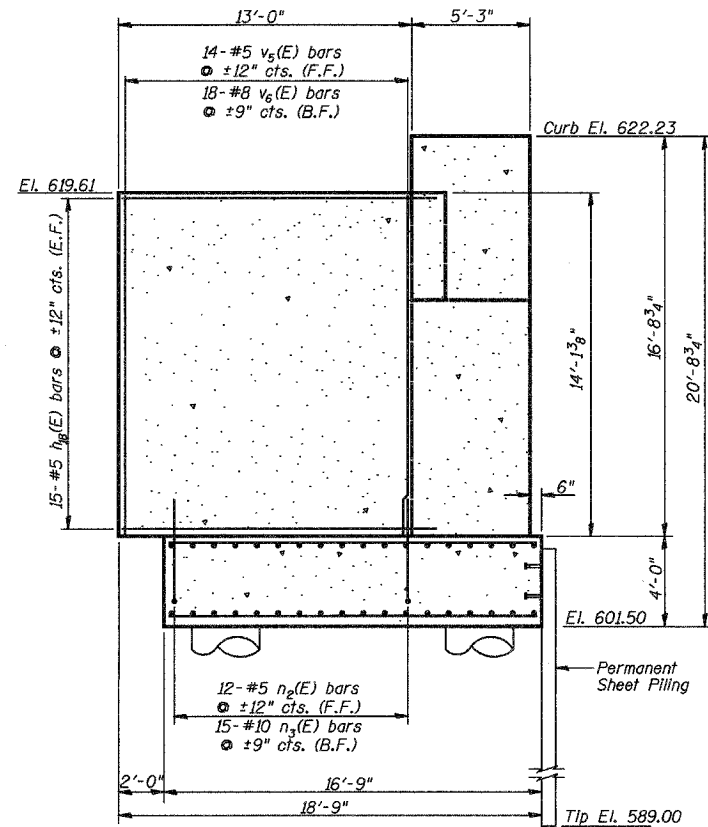
BILL OF MATERIAL

Item	Unit	Quantity
Temporary Ballast Retainer (Installed)	Foot	66
Concrete Deck Removal	Sq. Ft.	468

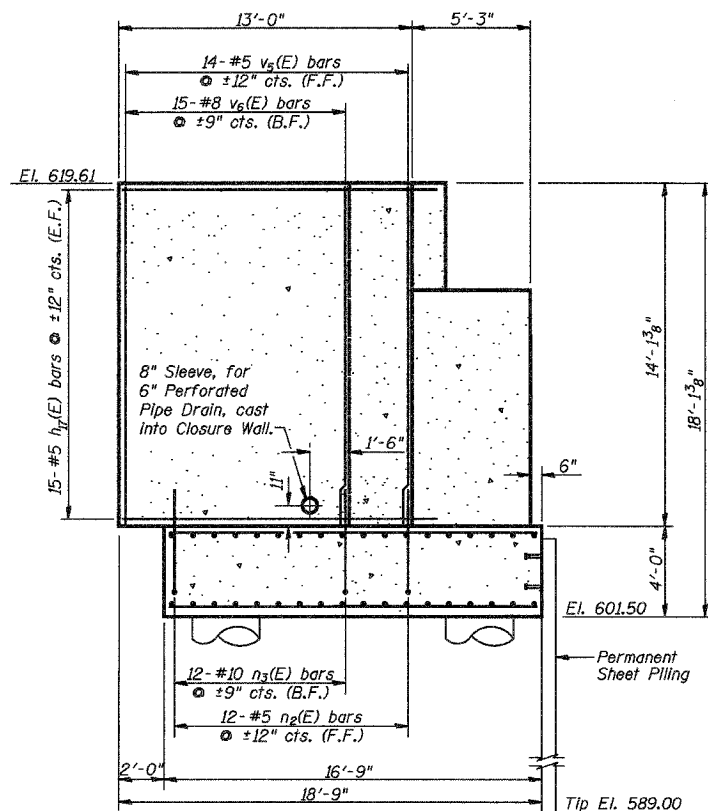
CONCRETE DECK REMOVAL DETAILS

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		14
	Checked DCS		of 30
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

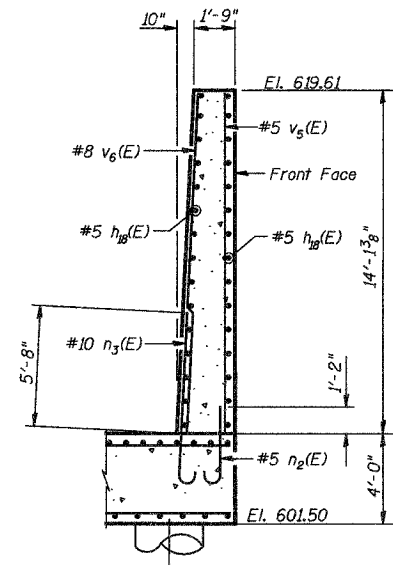
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F.A.P. 351	3277R	COOK	66	35
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



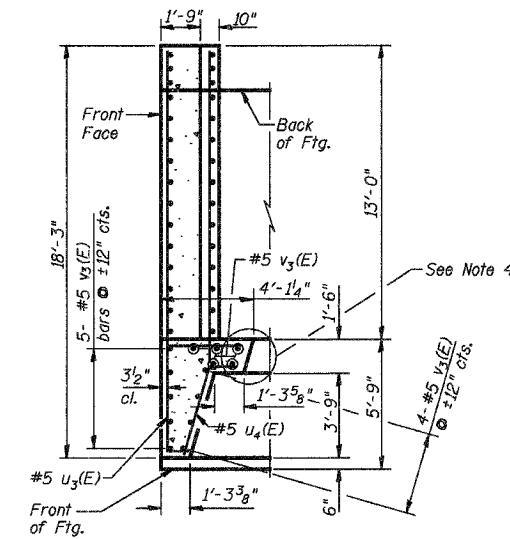
WEST CLOSURE WALL ELEVATION
(Looking East - Perpendicular to Abut.)



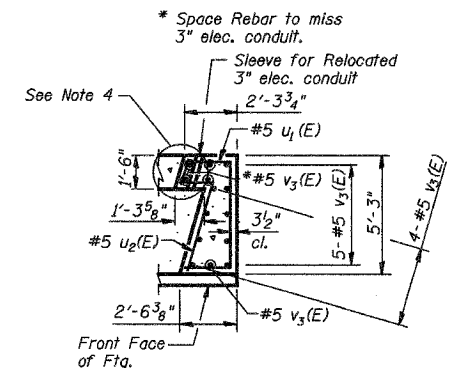
CENTER CLOSURE WALL ELEVATION
(Looking East - Perpendicular to Abut.)



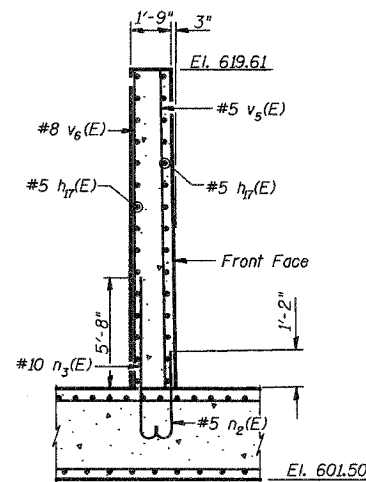
WEST CLOSURE WALL END VIEW
(Looking South)



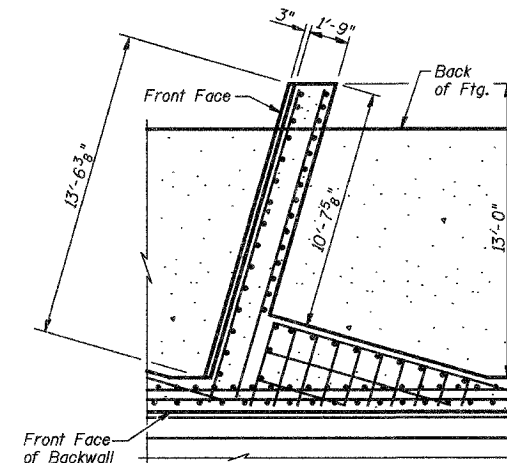
SECTION C-C



SECTION E-E



CENTER CLOSURE WALL END VIEW
(Looking South)



SECTION D-D

Notes:

1. Bars designated (E) shall be epoxy coated.
2. Space Reinforcement in Center Closure Wall to miss 8" Sleeve.
3. Cost of 8" sleeve and sleeve for relocated 3" electrical conduit are included with Concrete Structures.
4. See sheet 28 of 30 for 6" Perforated Pipe Drain Details.
5. Provide a 1 1/4" x 1'-6" Blockout in Curb for 3/32" Butyl Rubber Membrane and 2-1/2" Asphalt Planks. See Sheet 7 of 30 for typical Blockout in Curb & Sheet 8 of 30 for Membrane Waterproofing details at Joints.

NORTH ABUTMENT

Date 3/27/06	Designed TDN
Revisions	Drawn BKN
	Checked DCS
	Approved KWB

CN RAILROAD BRIDGE
OVER U.S. 6 (159TH STREET)
F.A.P. RTE. 351 SECTION 3277R
COOK COUNTY
STATION 92+24.25
STRUCTURE NO. 016-2754

Sheet No.

17

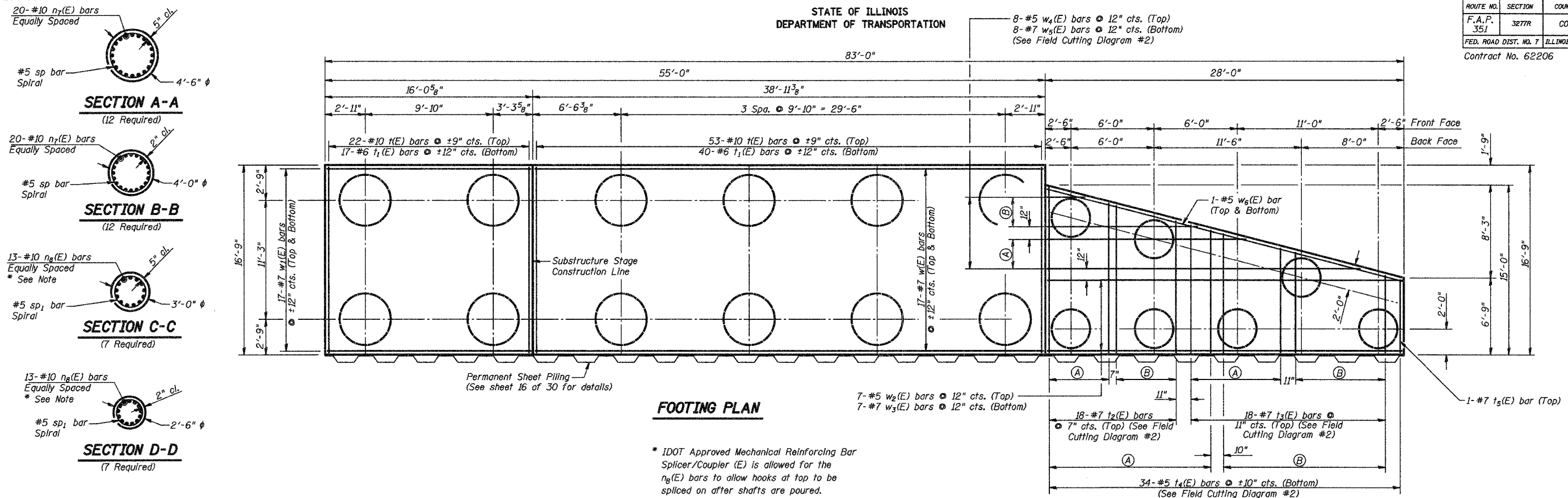
of 30

Prepared By: 3040 N. University Ave., Suite 1
Deatur, IL.

URS Job No.
36430825

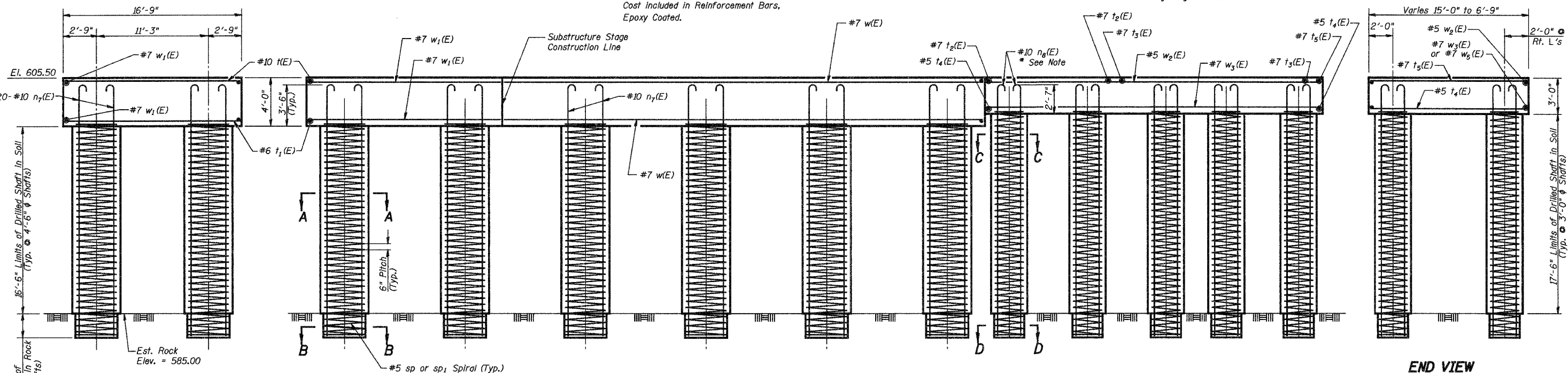
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	36
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



FOOTING PLAN

* IDOT Approved Mechanical Reinforcing Bar Splicer/Coupler (E) is allowed for the n6(E) bars to allow hooks at top to be spliced on after shafts are poured. Cost Included in Reinforcement Bars, Epoxy Coated.



END VIEW

ELEVATION

END VIEW

16'-6" Limits of Drilled Shaft in Soil (Typ. @ 4'-6" Shaft)

3'-0" Limits of Drilled Shaft in Rock (Typ. All Shafts)

17'-6" Limits of Drilled Shaft in Soil (Typ. @ 3'-0" Shaft)

#5 sp or sp1 Spiral (Typ.)
Each Shaft - Provide 1/2 extra turns top and bottom. Extend Spiral 2" into Footing. Provide min. 4-#4 bar spacers or equivalent.

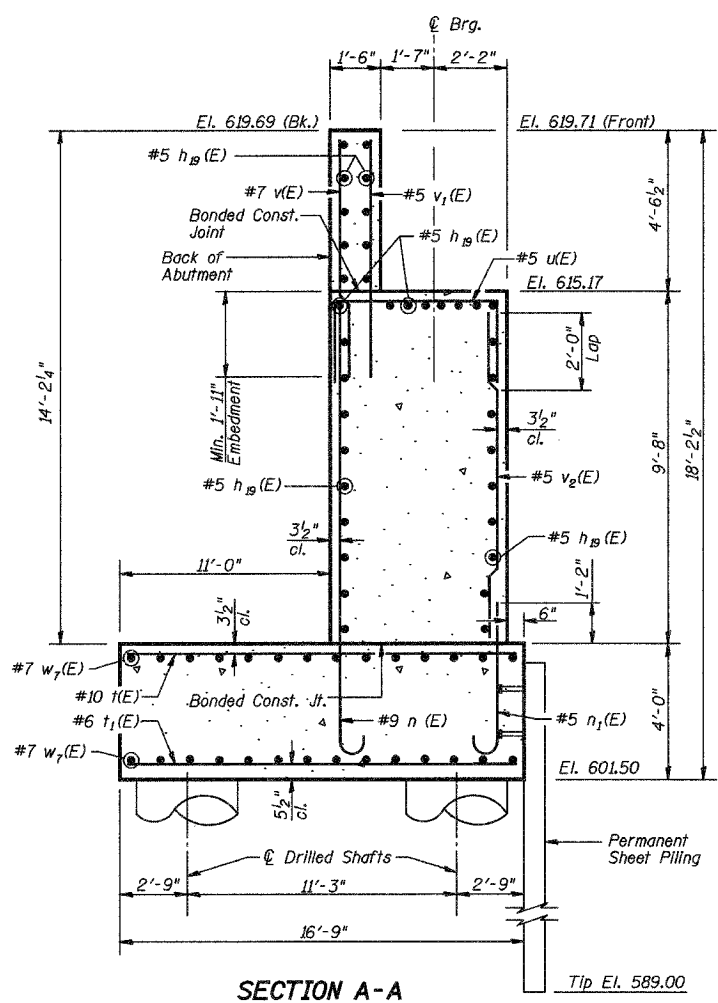
Notes:
For Field Cutting Diagram #1 and #2 See Sht. 19 of 30.
Drilled Shafts shall be drilled to Elevation 582.00.
Quantities and Detailing are for the estimated Elevations shown on the Plans. The actual conditions encountered in each Shaft may differ and the Drilled Shaft and Reinforcement Quantities shall be adjusted accordingly as directed by the Engineer and paid for at the corresponding Unit Bid Price.

Min. Lap Splice for Spiral = 2'-0"

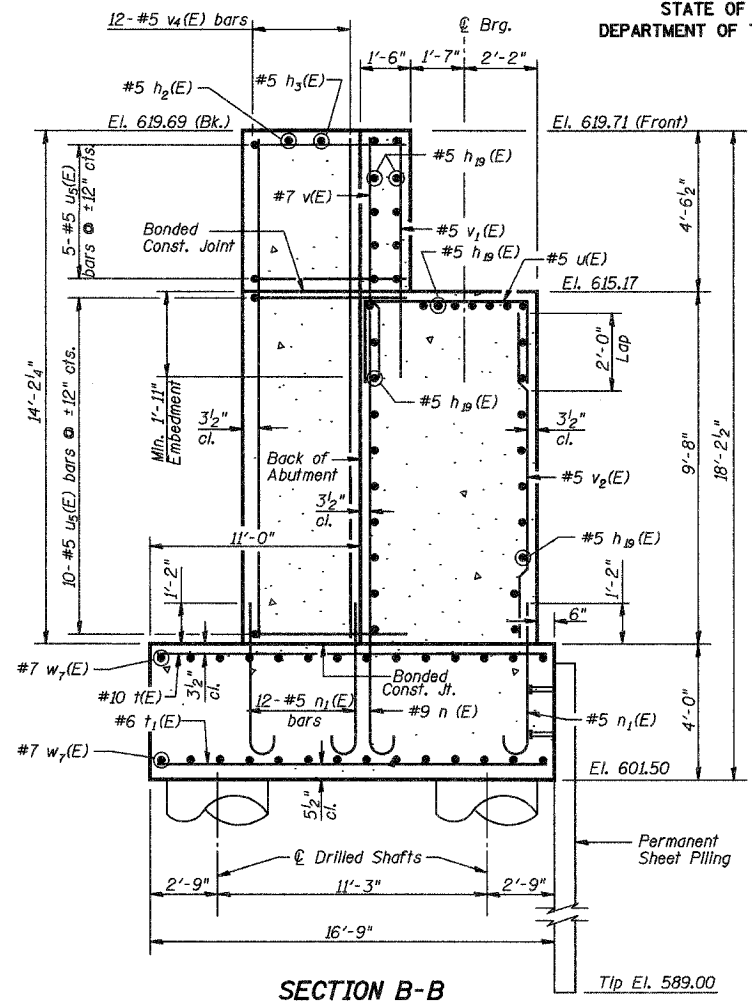
NORTH ABUTMENT - FOOTING & DRILLED SHAFTS			
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		18
	Checked DCS		of 30
	Approved KWB		URS Job No. 36430825
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

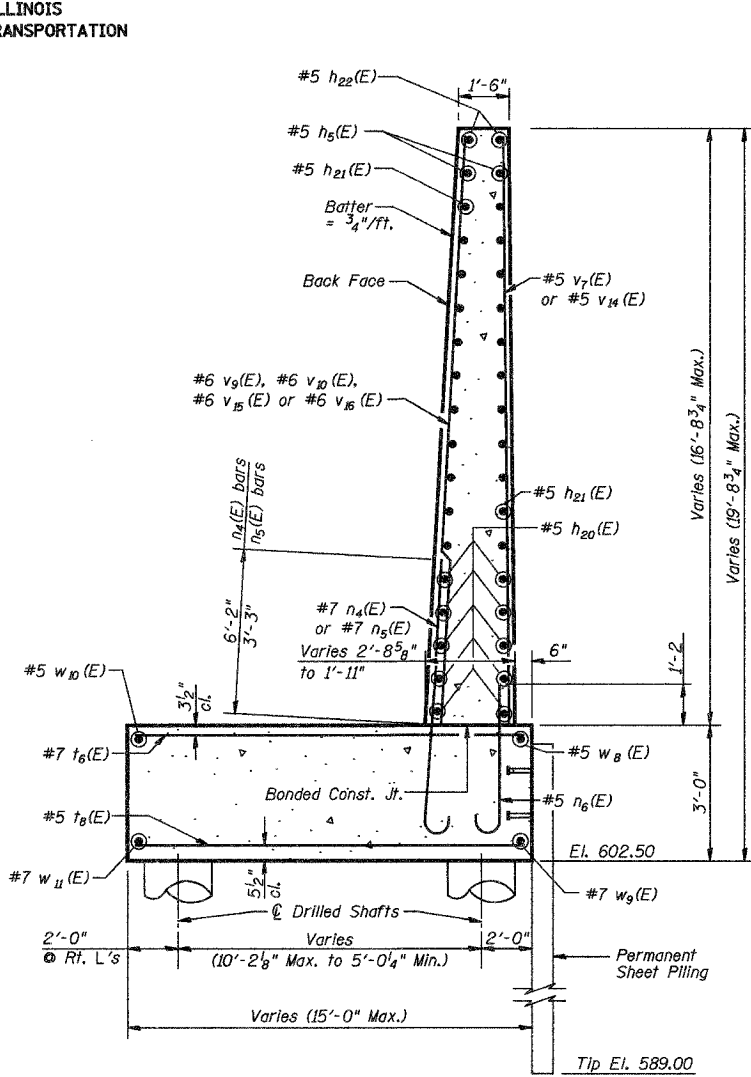
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F.A.P. 351	3277R	COOK	66	39
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



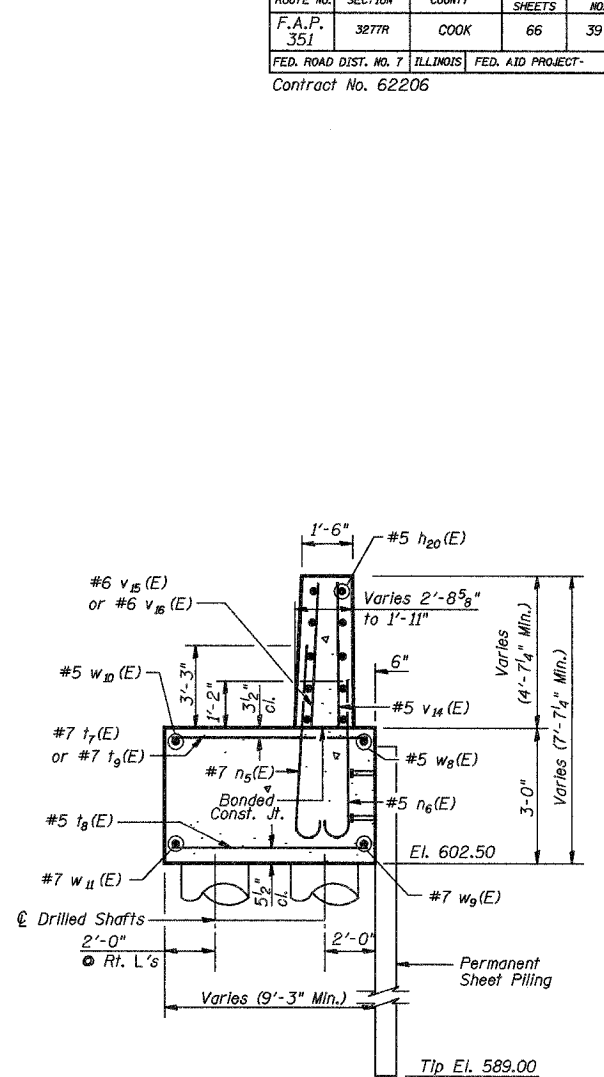
SECTION A-A



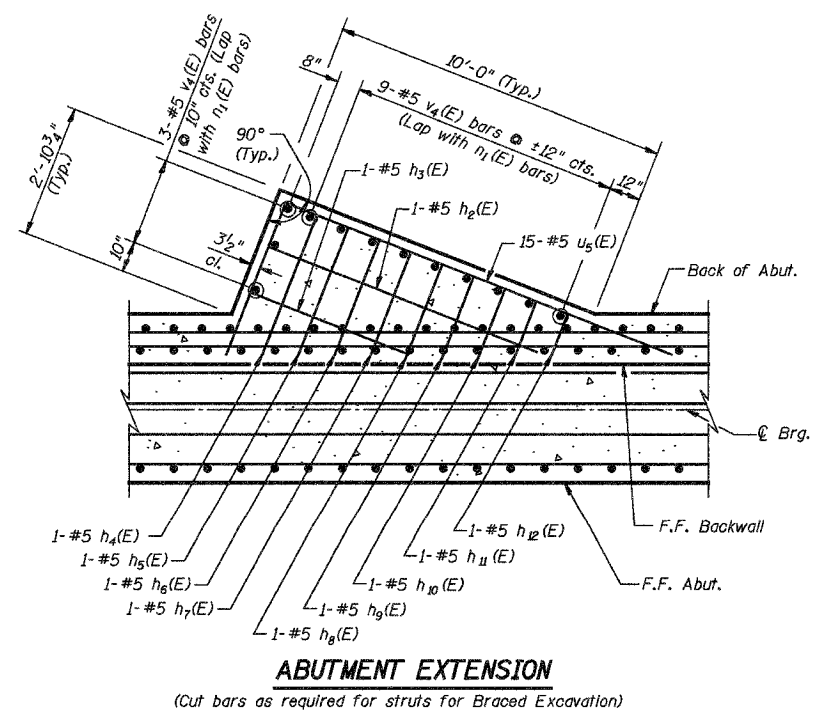
SECTION B-B



SECTION E-E

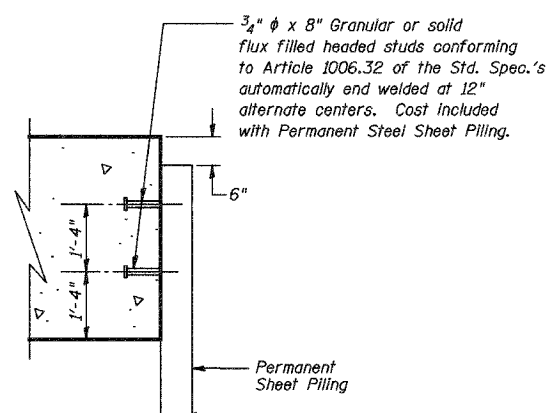


SECTION F-F



ABUTMENT EXTENSION

(Cut bars as required for struts for Braced Excavation)

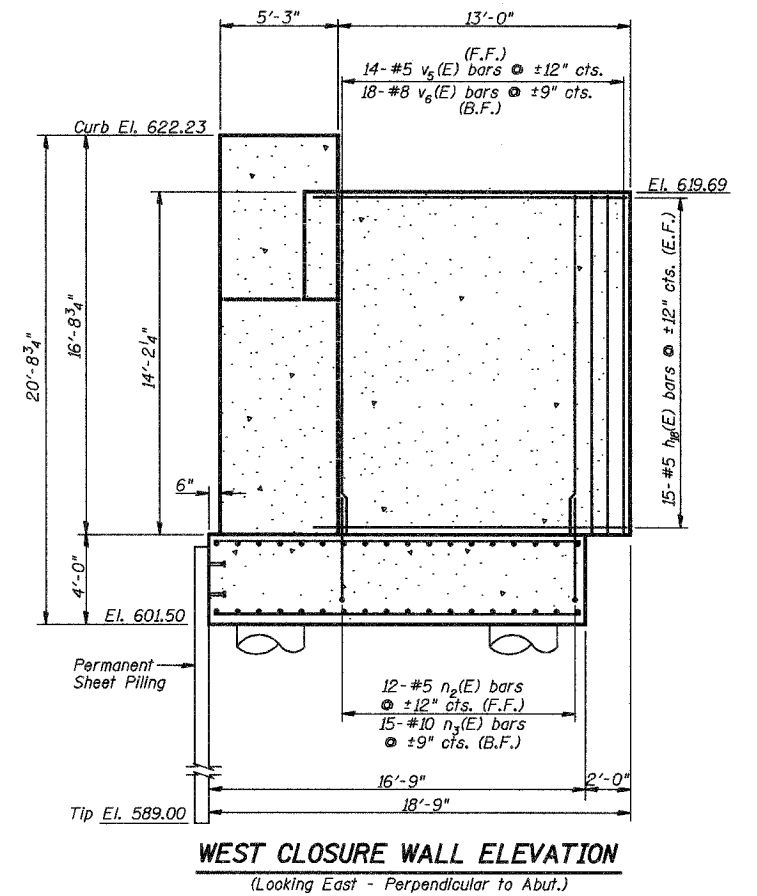
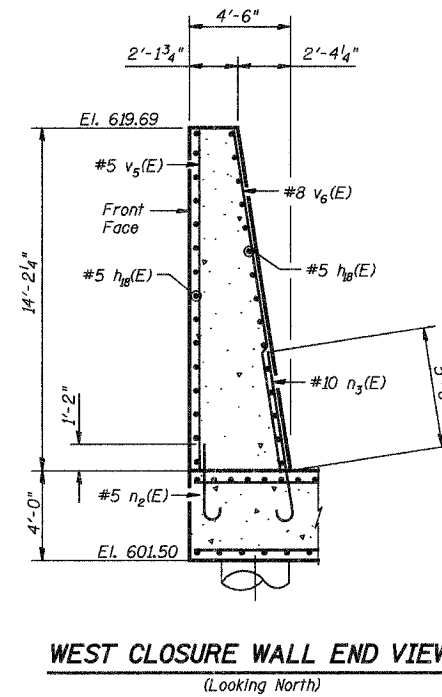
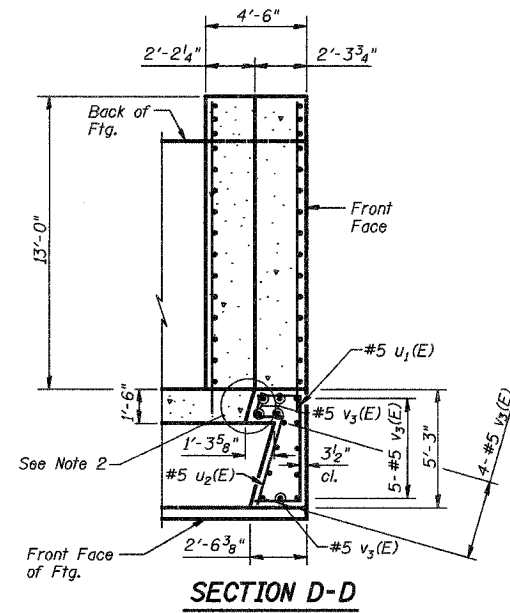
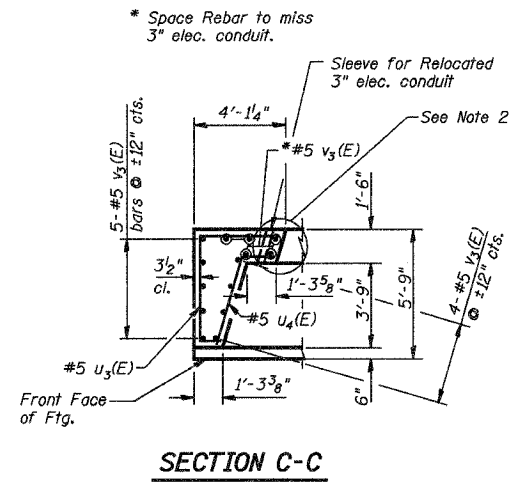


PERMANENT SHEET PILING ATTACHMENT TO FOOTING
Required Minimum Effective Section Modulus of Permanent Sheet Piling is 6.10 in.³/ft.

Note:
Bars designated (E) shall be epoxy coated.

SOUTH ABUTMENT - DETAILS			
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		21
	Checked DCS		of 30
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	40
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		
Contract No. 62206				



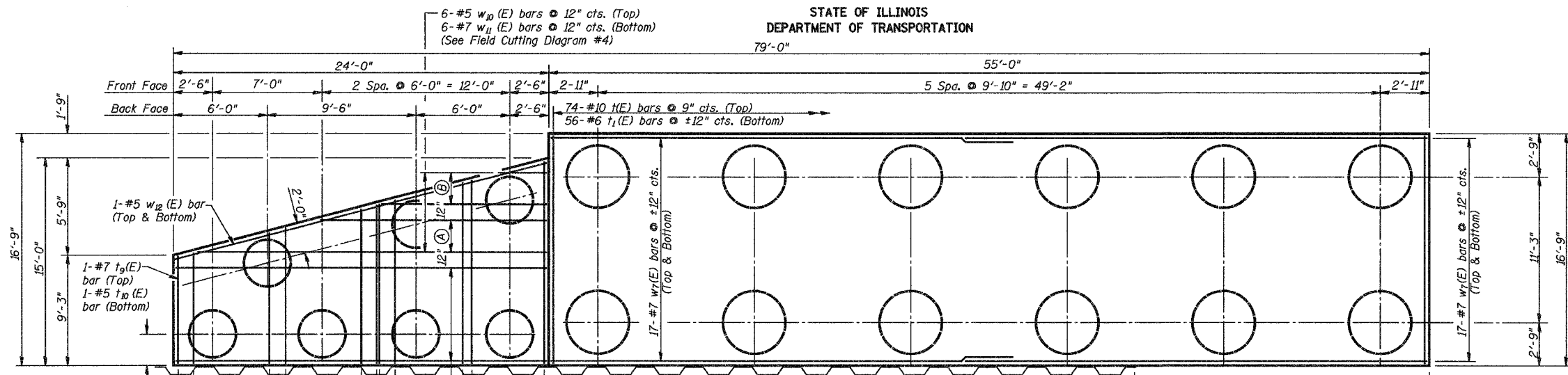
- Notes:
1. Bars designated (E) shall be epoxy coated.
 2. Provide a 1 1/4" x 1'-6" Blockout in Curb for 3/32" Butyl Rubber Membrane and 2-1/2" Asphalt Planks. See Sheet 7 of 30 for typical Blockout in Curb & Sheet 8 of 30 for Membrane Waterproofing details at Joints.

SOUTH ABUTMENT - DETAILS			
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		22
	Checked DCS		of 30
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

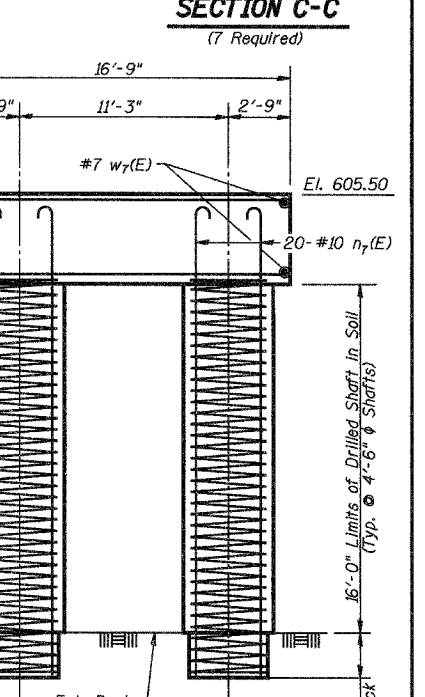
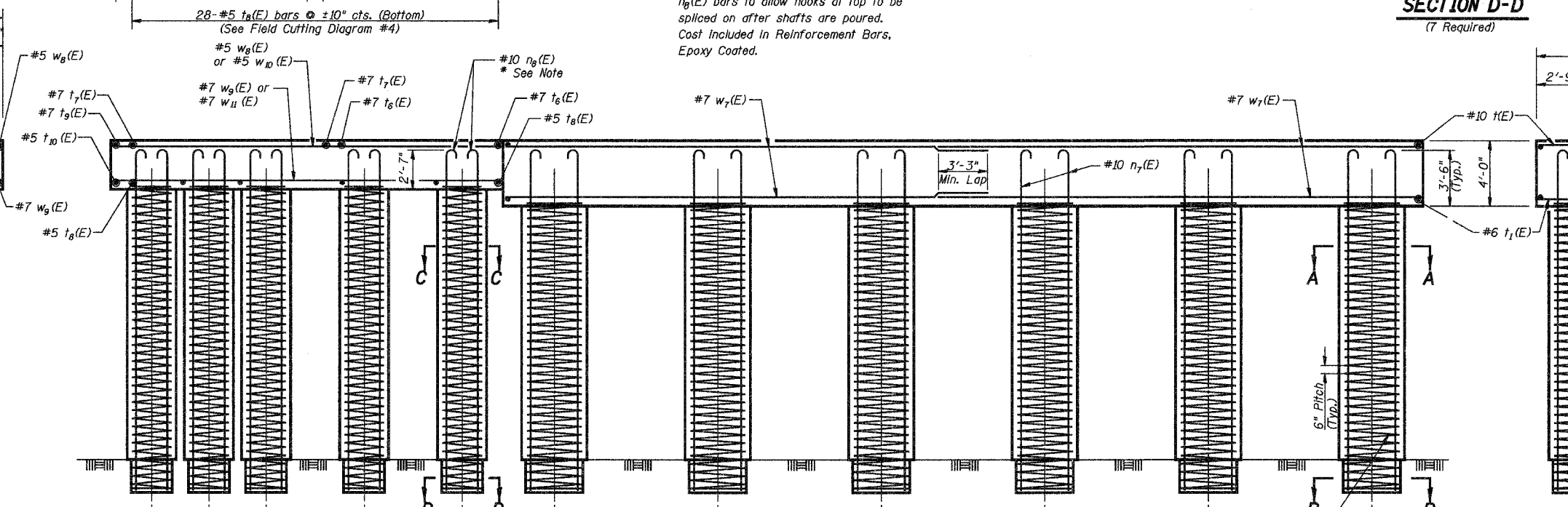
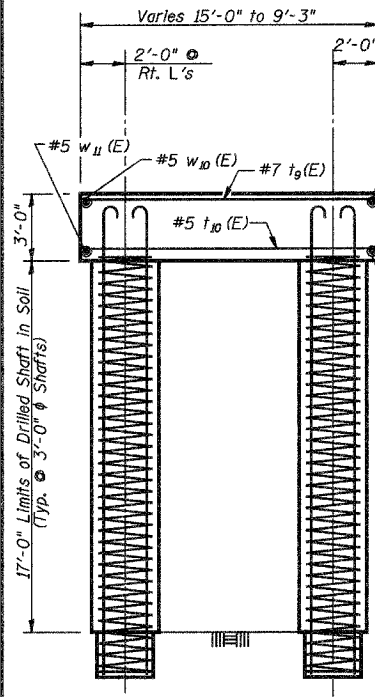
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	41

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-
Contract No. 62206



* IDOT Approved Mechanical Reinforcing Bar Splicer/Coupler (E) is allowed for the n8(E) bars to allow hooks at top to be spliced on after shafts are poured. Cost Included in Reinforcement Bars, Epoxy Coated.



#5 sp2 or sp3 Spiral (Typ.)
Each Shaft - Provide 1/2 extra turns top and bottom. Extend Spiral 2" into Footing. Provide min. 4-#4 bar spacers or equivalent.

Notes:
For Field Cutting Diagram #3 and #4 See Sht. 24 of 30.
Drilled Shafts shall be drilled to Elevation 582.50. Quantities and Detailing are for the estimated Elevations shown on the Plans. The actual conditions encountered in each Shaft may differ and the Drilled Shaft and Reinforcement Quantities shall be adjusted accordingly as directed by the Engineer and paid for at the corresponding Unit Bid Price.

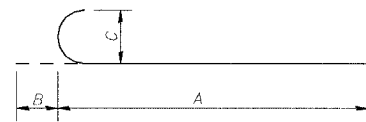
Min. Lap Splice for Spiral = 2'-0"

SOUTH ABUTMENT - FOOTING & DRILLED SHAFTS			
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		23
	Checked DCS		of 30
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 DeKalb, IL.		URS Job No. 36430825

BILL OF MATERIAL - SOUTH ABUTMENT

Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape
$h_2(E)$	3	#5	9'-7"		$v_1(E)$	50	#7	6'-5"	
$h_3(E)$	3	#5	6'-9"		$v_2(E)$	56	#5	6'-5"	
$h_4(E)$	3	#5	3'-6"		$v_3(E)$	28	#5	9'-2"	
$h_5(E)$	5	#5	3'-3"		$v_4(E)$	36	#5	13'-10"	
$h_6(E)$	3	#5	2'-11"		$v_5(E)$	14	#5	13'-11"	
$h_7(E)$	3	#5	2'-8"		$v_6(E)$	18	#8	13'-11"	
$h_8(E)$	3	#5	2'-4"		$v_7(E)$	2	#5	16'-4"	
$h_9(E)$	3	#5	2'-1"		$v_8(E)$	2	#6	16'-4"	
$h_{10}(E)$	3	#5	1'-9"		$v_{10}(E)$	12	#6	26'-7"	
$h_{11}(E)$	3	#5	1'-6"						
$h_{12}(E)$	3	#5	1'-2"						
$h_{13}(E)$	30	#5	13'-9"						
$h_{14}(E)$	72	#5	28'-3"		$v_{14}(E)$	12	#5	20'-8"	
$h_{20}(E)$	10	#5	23'-8"		$v_{15}(E)$	5	#6	14'-9"	
$h_{21}(E)$	10	#5	27'-9"		$v_{16}(E)$	1	#6	4'-6"	
$h_{22}(E)$	2	#5	26'-6"		$v_{17}(E)$	1	#5	4'-6"	
$n(E)$	110	#9	13'-9"		$w_7(E)$	68	#7	29'-0"	
$n_1(E)$	92	#5	5'-1"		$w_8(E)$	9	#5	23'-7"	
$n_2(E)$	12	#5	5'-1"		$w_9(E)$	9	#7	23'-7"	
$n_3(E)$	15	#10	10'-5"		$w_{10}(E)$	3	#5	26'-5"	
$n_4(E)$	26	#7	9'-5"		$w_{11}(E)$	3	#7	26'-5"	
$n_5(E)$	11	#7	6'-6"		$w_{12}(E)$	2	#5	24'-4"	
$n_6(E)$	27	#5	4'-2"						
$n_7(E)$	240	#10	24'-5"						
$n_8(E)$	91	#10	24'-6"						
sp_2	12	#5	19'-2"	WWWWW					
sp_3	7	#5	20'-2"	WWWWW					
HE	74	#10	16'-5"		Porous Granular Embankment, Special Structure Excavation		Cu. Yd.	407	
$t_1(E)$	56	#6	16'-5"		Concrete Structures		Cu. Yd.	354.3	
$t_6(E)$	9	#7	26'-8"		Reinforcement Bars		Lbs.	7,960	
$t_7(E)$	7	#7	21'-0"		Reinforcement Bars, Epoxy Coated		Lbs.	63,880	
$t_8(E)$	14	#5	23'-8"		Bridge Seat Sealer		Sq. Ft.	192	
$t_9(E)$	1	#7	8'-10"		Pipe Underdrains For Structures 6"		Foot	83	
$t_{10}(E)$	1	#5	8'-10"		Geocomposite Wall Drain		Sq. Yd.	109	
$u(E)$	104	#5	8'-8"		Braced Excavation		Cu. Yd.	248	
$u_1(E)$	3	#5	8'-4"		Drilled Shaft in Soil 54"		Foot	192.0	
$u_2(E)$	3	#5	5'-11"		Drilled Shaft in Soil 36"		Foot	119.0	
$u_3(E)$	3	#5	8'-11"		Drilled Shaft in Rock 48"		Foot	36.0	
$u_4(E)$	3	#5	5'-11"		Drilled Shaft in Rock 30"		Foot	21.0	
$u_5(E)$	45	#5	16'-9"		Permanent Steel Sheet Piling		Sq. Ft.	952	

(See Note 4)



BARS $n(E)$, $n_1(E)$, $n_2(E)$, $n_3(E)$ & $n_4(E)$ thru $n_8(E)$

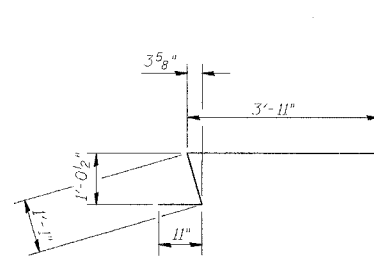
Bar	A	B	C
$n(E)$	12'-6"	1'-3"	11'-4"
$n_1(E)$	4'-6"	7"	5"
$n_2(E)$	4'-6"	7"	5"
$n_3(E)$	9'-0"	1'-5"	1'-1 1/4"
$n_4(E)$	8'-7"	10"	7"
$n_5(E)$	5'-8"	10"	7"
$n_6(E)$	3'-7"	7"	5"
$n_7(E)$	23'-0"	1'-5"	1'-1 1/4"
$n_8(E)$	23'-1"	1'-5"	1'-1 1/4"

(See Note 4)

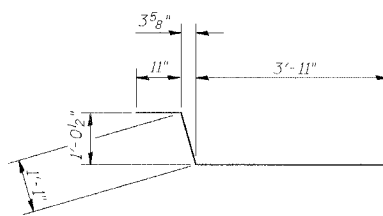


BARS $u(E)$, $u_1(E)$ & $u_3(E)$

Bar	A	B	C
$u(E)$	2'-0"	4'-8"	2'-0"
$u_1(E)$	1'-8"	4'-8"	2'-0"
$u_3(E)$	10"	4'-8"	3'-5"



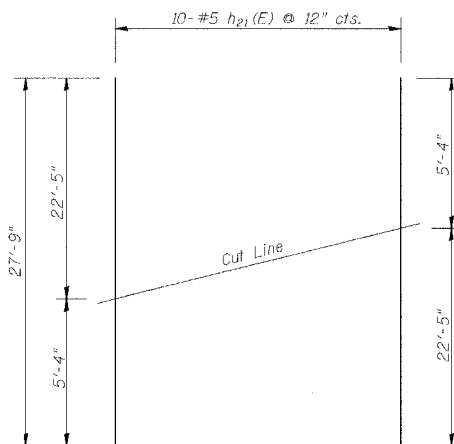
BAR $u_2(E)$



BAR $u_4(E)$

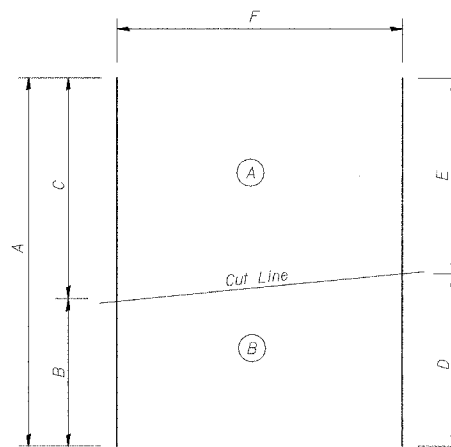


BAR $u_5(E)$



FIELD CUTTING DIAGRAM #3

Order bars full length. Cut bars in field as shown. Use top half in F.F. and bottom half in B.F. for $h_{21}(E)$ bars.



FIELD CUTTING DIAGRAM #4

Order bars full length. Cut bars in field as shown. Place patterns (A) & (B) side by side as shown on sheet 23 of 30 for h (E) bars, sheet 20 of 30 for v (E) bars and sheet 23 of 30 for w (E) bars.

Bar	A	B	C	D	E	F
$t_6(E)$	26'-8"	12'-2"	14'-6"	13'-3"	13'-5"	9-#7 bars @ 7" cts.
$t_7(E)$	21'-0"	9'-1"	11'-11"	10'-5"	10'-7"	7-#7 bars @ 11" cts.
$t_8(E)$	23'-8"	9'-1"	14'-7"	11'-9"	11'-11"	14-#5 bars @ 10" cts.
$v_{10}(E)$	26'-7"	10'-3"	16'-4"	13'-2"	13'-5"	12-#6 bars @ 6" cts.
$v_{15}(E)$	20'-8"	4'-8"	16'-0"	10'-0"	10'-8"	12-#5 bars @ 11" cts.
$v_{16}(E)$	14'-9"	5'-0"	9'-9"	7'-2"	7'-7"	5-#6 bars @ 12" cts.
$w_{10}(E)$	26'-5"	2'-9"	23'-8"	11'-1"	15'-4"	3-#5 bars @ 12" cts.
$w_{11}(E)$	26'-5"	2'-9"	23'-8"	11'-1"	15'-4"	3-#7 bars @ 12" cts.

Notes:

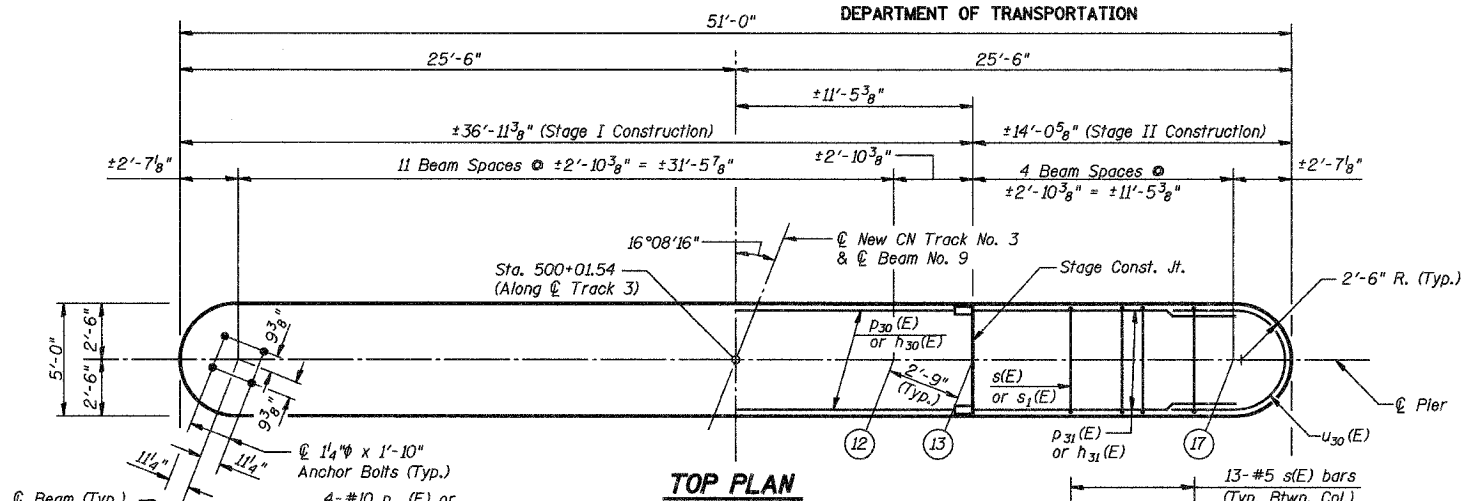
- Place backfill behind sidewalk retaining wall prior to backfilling behind abutment and abutment retaining wall.
- Bars designated (E) shall be epoxy coated.
- Length of Spiral given is Height of Spiral. Weight includes Weight of Spacers for Spiral.
- IDOT Approved Mechanical Reinforcing Bar Splice/Coupler (E) is allowed for the $n_8(E)$ bars to allow hooks at top to be spliced on after shafts are poured. Cost included in Reinforcement Bars, Epoxy Coated.

SOUTH ABUTMENT - DETAILS

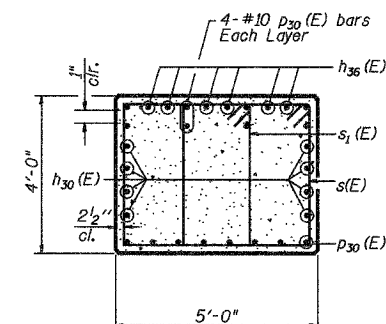
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		24
	Checked DCS		of 30
	Approved KWB		
Prepared By:	URS	3040 N. University Ave., Suite 1 Decatur, IL.	URS Job No. 36430825

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

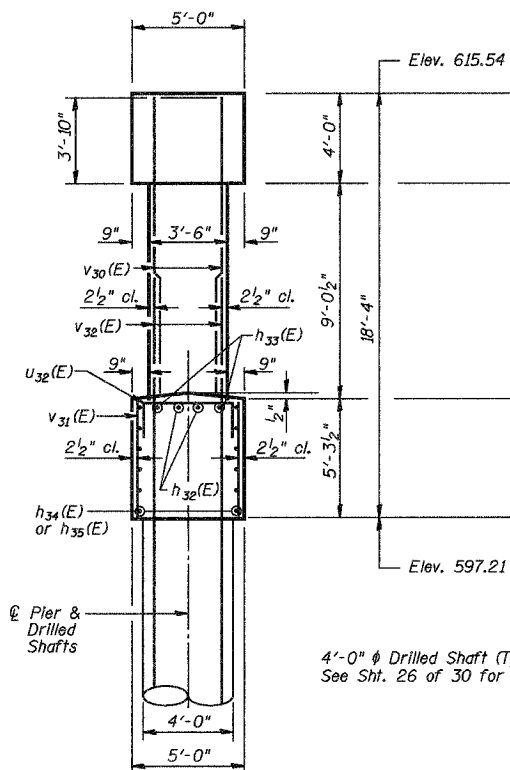
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				



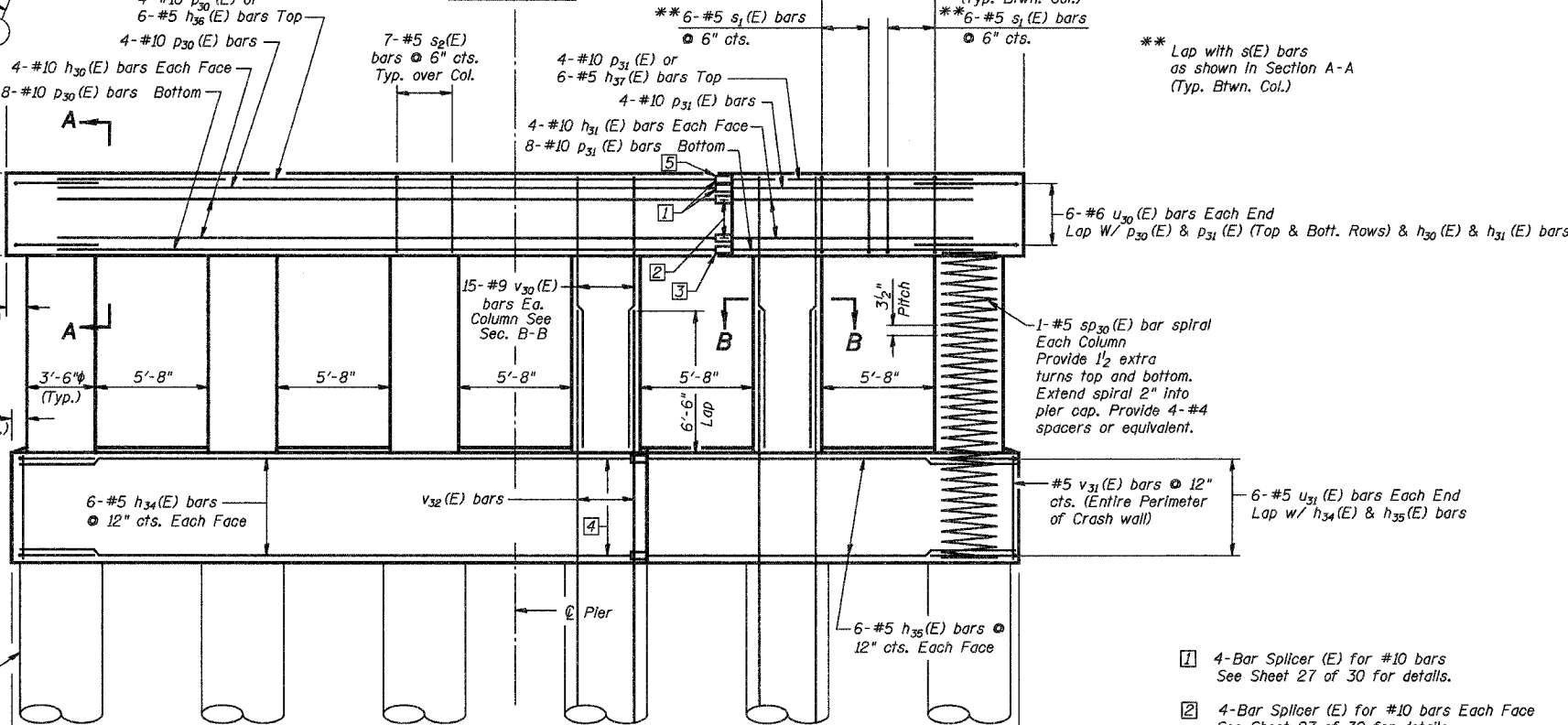
TOP PLAN



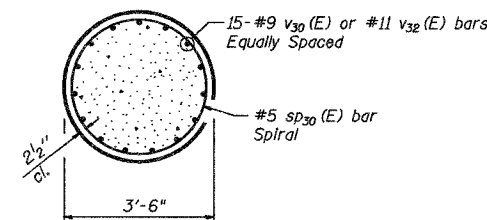
SEC. A-A



END VIEW



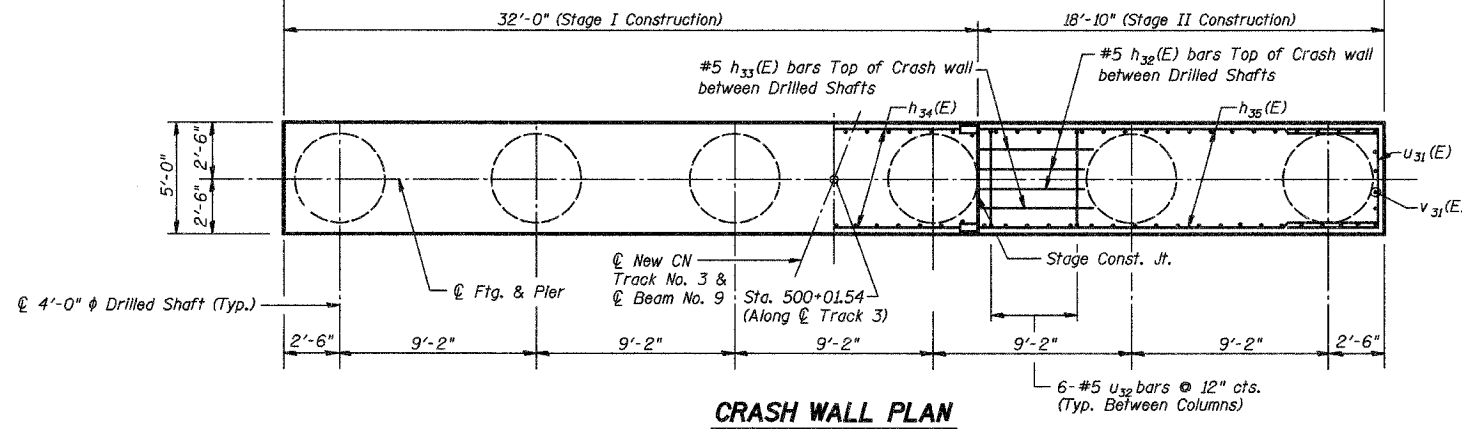
ELEVATION



SEC. B-B

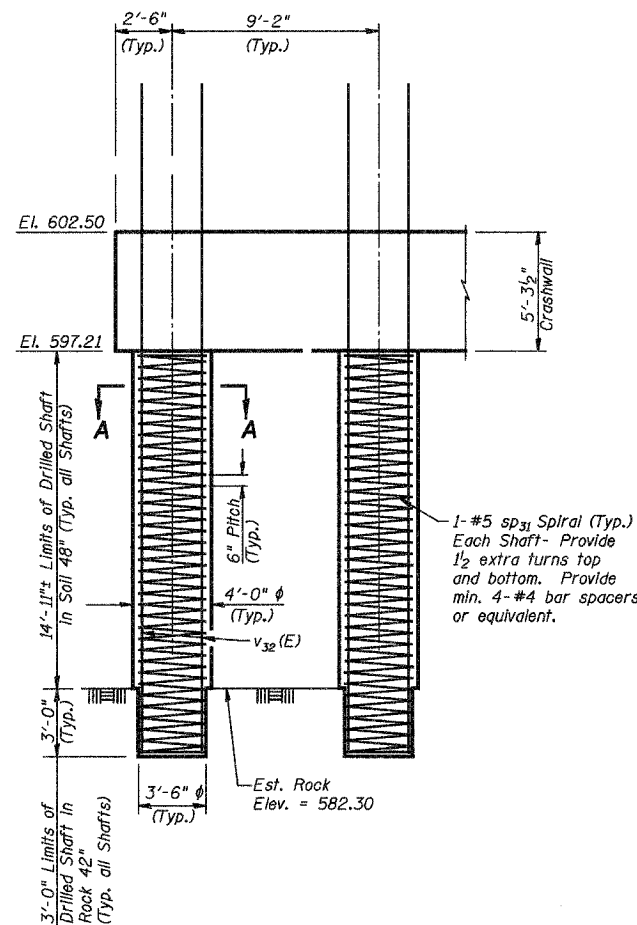
- 1 4-Bar Splicer (E) for #10 bars See Sheet 27 of 30 for details.
- 2 4-Bar Splicer (E) for #10 bars Each Face See Sheet 27 of 30 for details.
- 3 8-Bar Splicer (E) for #10 bars See Sheet 27 of 30 for details.
- 4 6-Bar Splicer (E) for #5 bars Each Face See Sheet 27 of 30 for details.
- 5 6-Bar Splicer (E) for #5 bars See Sheet 27 of 30 for details.

Notes:
Reinforcement Bars designated (E) shall be epoxy coated.
For Bill of Materials and additional details see sheet 26 of 30.
Space reinforcement in seat to miss anchor bolts.

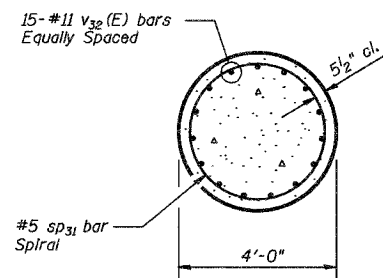


CRASH WALL PLAN

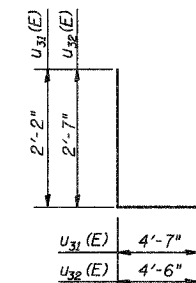
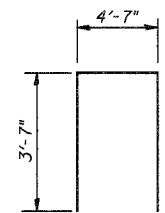
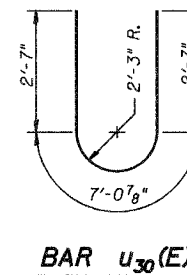
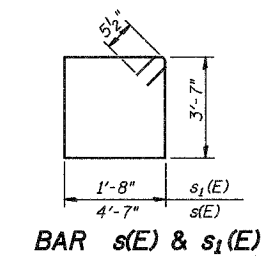
PIER		CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Date 3/27/06	Designed DCS		
Revisions	Drawn BKN	of 30	
	Checked TDN	URS Job No.	
	Approved KWB	36430825	
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		



DRILLED SHAFT DETAIL



SECTION A-A



**PIER
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h ₃₀ (E)	8	#10	34'-3"	—
h ₃₁ (E)	8	#10	11'-5"	—
h ₃₂ (E)	10	#5	4'-8"	—
h ₃₃ (E)	10	#5	5'-0"	—
h ₃₄ (E)	12	#5	31'-9"	—
h ₃₅ (E)	12	#5	18'-7"	—
h ₃₆ (E)	6	#5	34'-3"	—
h ₃₇ (E)	6	#5	11'-5"	—
D ₃₀ (E)	16	#10	34'-3"	—
D ₃₁ (E)	16	#10	11'-5"	—
s(E)	65	#5	17'-3"	□
s ₁ (E)	60	#5	11'-5"	□
s ₂ (E)	42	#5	11'-9"	□
sp ₃₀ (E)	6	#5	14'-4"	▩
sp ₃₁	6	#5	17'-11"	▩
u ₃₀ (E)	12	#6	12'-3"	U
u ₃₁ (E)	12	#5	8'-11"	U
u ₃₂ (E)	30	#5	9'-8"	U
v ₃₀ (E)	90	#9	12'-10"	—
v ₃₁ (E)	110	#5	4'-10"	—
v ₃₂ (E)	90	#11	29'-4"	—
Bar Splicer	Each		42	
Structure Excavation	Cu. Yd.		63.8	
Concrete Structures	Cu. Yd.		106.4	
Reinforcement Bars	Pound		2,740	
Reinforcement Bars, Epoxy Coated	Pound		30,440	
Bridge Seat Sealer	Sq. Ft.		250	
Drilled Shaft in Soil 48"	Foot		89.5	
Drilled Shaft in Rock 42"	Foot		18.0	

Notes:

Reinforcement Bars designated (E) shall be epoxy coated.
Length of Spiral given is height of Spiral.
Weight includes weight of spacers for Spiral.

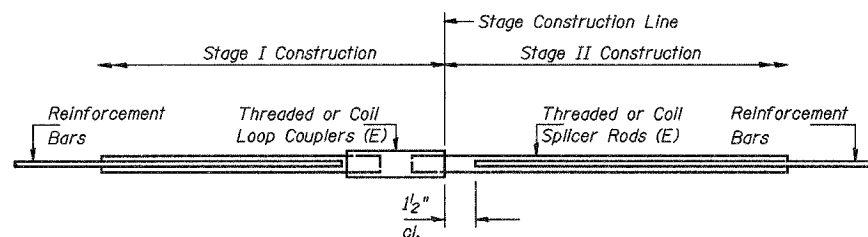
Drilled Shafts shall be drilled to Elevation 579.30.
Quantities and Detailing are for the estimated Elevations shown on the Plans.
The actual conditions encountered in each Shaft may differ and the Drilled Shaft and Reinforcement Quantities shall be adjusted accordingly as directed by the Engineer and paid for at the corresponding Unit Bid Price.

PIER			Sheet No.
Date 3/27/06	Designed DCS	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	26 of 30
Revisions	Drawn BKN		
	Checked TDN		
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

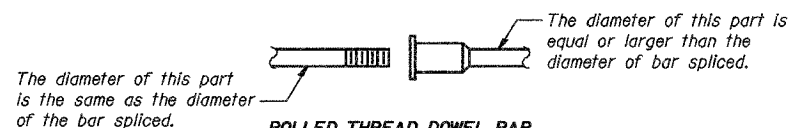
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	45
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract No. 62206



BAR SPLICER ASSEMBLY DETAIL

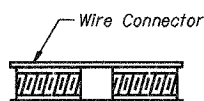
Bar Size	No. Assemblies Required	Location
#5	198	Deck
#5	52	North Abutment
#5	18	Pier
#5	28	Sidewalk Retaining Wall
#7	34	North Abutment
#7	4	Sidewalk Retaining Wall
#10	24	Pier



ROLLED THREAD DOWEL BAR



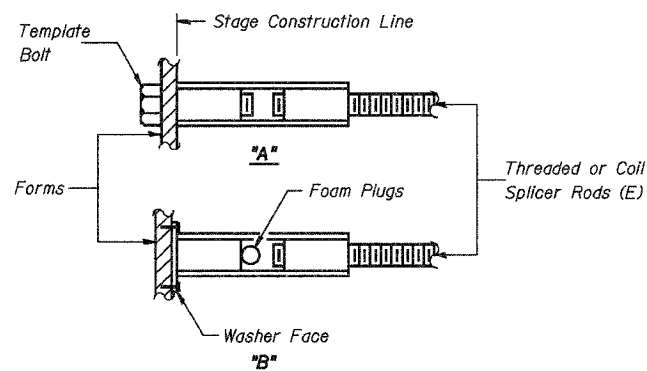
**** ONE PIECE**



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.

"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_f$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_f$

Where f_y = Yield strength of lapped reinforcement bars in ksi.

$f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A_f = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES

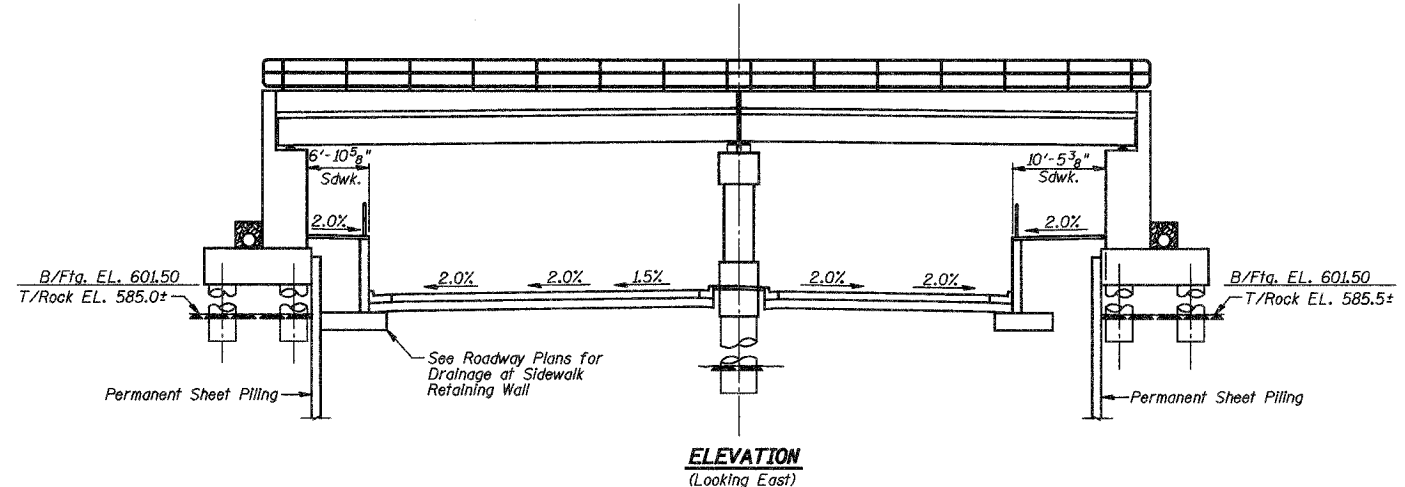
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#5	2'-0"	23.0	9.2
#7	3'-5"	45.1	18.0
#10	7'-3"	95.0	38.0

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for BAR SPLICERS.

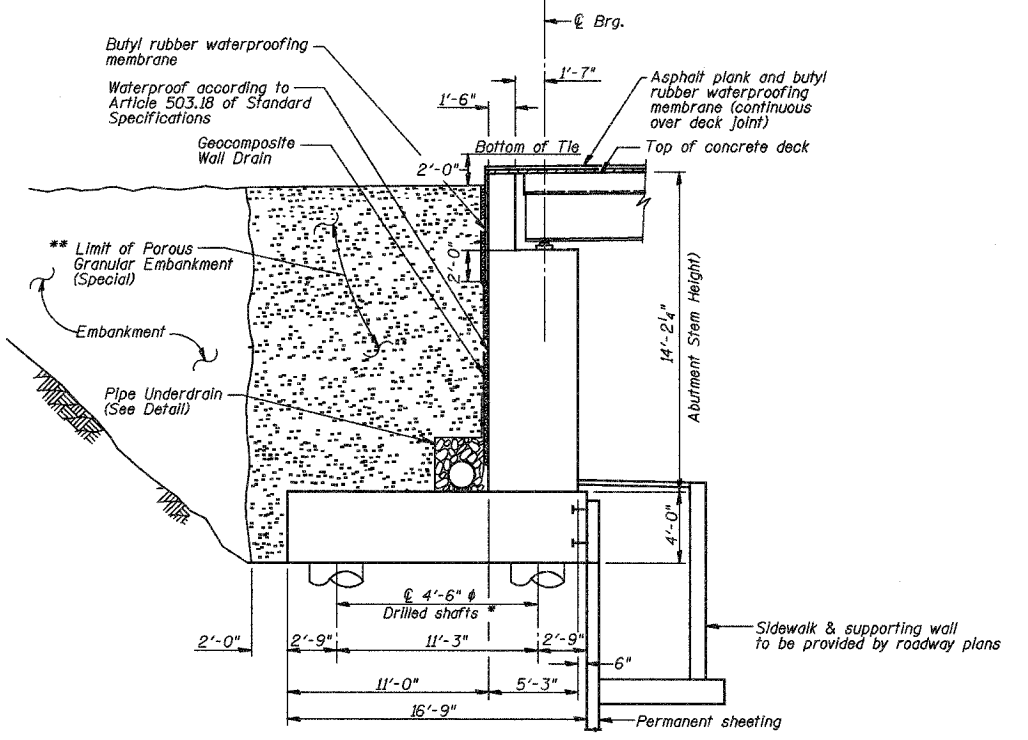
BAR SPLICER ASSEMBLY DETAILS

Date 3/27/06	Designed DCS	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		27
	Checked TDN		
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 Deerfield, IL.		
		URS Job No. 36430825	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	46
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT -		
Contract No. 62206				

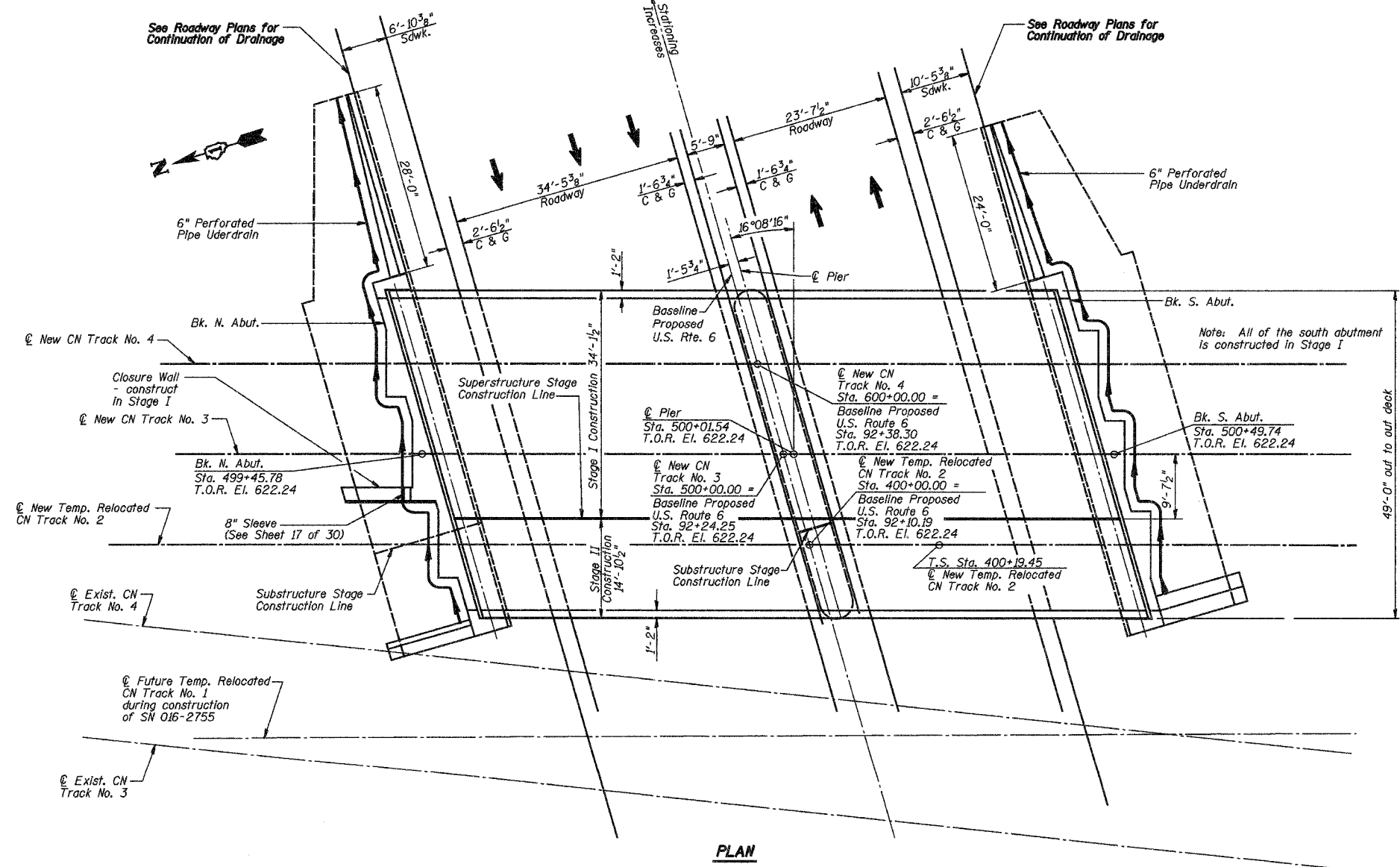


ELEVATION
(Looking East)

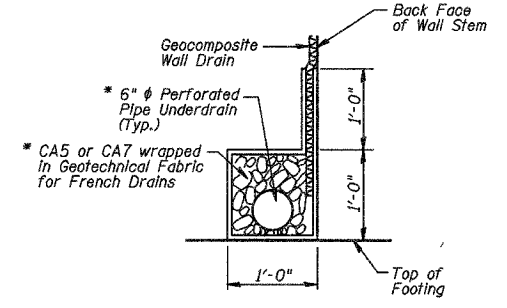


SECTION THRU ABUTMENT
(At Right Angles)

- * Included in cost of Pipe Underdrains for Structures 6"
- ** Excavation for placing Porous Granular Embankment (Special) is included in cost of Braced Excavation



PLAN



PIPE UNDERDRAIN DETAIL

Notes:
See Abutment Bill of Material on Sheets 19 of 30 and 24 of 30 for Quantities of Porous Granular Embankment (Special), Pipe Underdrain For Structures, 6" and Geocomposite Wall Drain.

DRAINAGE & BACKFILL DETAILS			
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		28
	Checked DCS		of 30
	Approved KWB		
Prepared By:	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	47
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				

BORING NO. W-2

Everest Engineering Company
STRUCTURE BORING LOG

Page 1 of 1
Date 6/20/01

ROUTE U.S. 6 DESCRIPTION U.S. ROUTE 6 FROM I-294 TO ILLINOIS ROUTE 1

SECT. _____ STRUCT. NO. 018-2755 DRILLED BY PATRICK DRILLING

COUNTY COOK LOCATION NE CORNER, BEHIND N. ABUT. S. 17, TWP. 36 N, RNG. 12 E

Boring No. W-2 Station 92+68.37 Offset 105.000 LT Surface Elev. 618.00 ft

Surface Water Elev. N/A
Groundwater Elev. 604.5
when drilling
at Completion 588.0
after 589.0 Hrs.

DEPTH (ft)	DESCRIPTION	TESTS	VALUES
0-4	MISCELLANEOUS FILL: crushed aggregate, sand, topsoil, coal, sand, slag and cinders	Qu	21
4-7	Medium Stiff to Stiff, Brown, Gray, and Black CLAY LOAM traces - sand, gravel, slag, and glass	W, S	2.2, 11
7-13			50.5*
13-14			24
14-19			1.3, 13
19-20			505.5*
20-25	FILL Medium Dense, Brown SAND		
25-30			
30-32	Stiff, Brown, Gray and Black SILTY CLAY traces - sand, gravel and topsoil		
32-36			
36-40	FILL Stiff, Gray SILTY CLAY traces - sand and gravel		
40-43			
43-45			
45-48	Hard, Gray SILTY CLAY LOAM traces - sand and gravel		
48-50			
50-52	Very Dense to Extremely Dense, Gray SILTY LOAM traces - sand and gravel		
52-55			
55-58			
58-60			
60-62			
62-65			
65-68			
68-70			
70-72			
72-75			
75-78			
78-80			
80-82			
82-85			
85-88			
88-90			
90-92			
92-95			
95-98			
98-100			

SPT (N) = Sum of last two blow values in sample. (Qu) B = Bulge S = Shear P = Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

BORING NO. W-6

Everest Engineering Company
STRUCTURE BORING LOG

Page 1 of 1
Date 6/22/01

ROUTE U.S. 6 DESCRIPTION U.S. ROUTE 6 FROM I-294 TO ILLINOIS ROUTE 1

SECT. _____ STRUCT. NO. 018-2755 DRILLED BY PATRICK DRILLING

COUNTY COOK LOCATION SE CORNER, BEHIND S. ABUT. S. 17, TWP. 36 N, RNG. 12 E

Boring No. W-6 Station 91+89.63 Offset 44.000 RT Surface Elev. 619.00 ft

Surface Water Elev. N/A
Groundwater Elev. _____
when drilling
at Completion _____
after _____ Hrs.

DEPTH (ft)	DESCRIPTION	TESTS	VALUES
0-3	MISCELLANEOUS FILL: Medium Dense, Black, Sand, Gravel, Slag, and Cinders	Qu	15
3-7		W, S	4.36, 18
7-16			50.5*
16-21	FILL Loose, Brown SANDY LOAM traces - gravel, pieces of wood		
21-23			21
23-28			23
28-30			47
30-32			
32-33			
33-34			
34-35			
35-36			
36-37			
37-38			
38-40			
40-42	FILL Black SILTY CLAY		
42-44			
44-45	Stiff to Very Stiff, Brown and Gray, SILTY CLAY traces - sand and gravel		
45-46			
46-47			
47-48			
48-49			
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98-99			
99-100			

SPT (N) = Sum of last two blow values in sample. (Qu) B = Bulge S = Shear P = Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

SOIL BORINGS		
Date 3/27/06	Designed	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754
Revisions	Drawn REZ	
	Checked	
	Approved	
Prepared By:	URS 3040 N. University Ave., Suite 1 Decatur, IL.	
		Sheet No. 29 of 30 URS Job No. 36430825

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	48
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
Contract No. 62206				

BORING NO. W-4

Everest Engineering Company
STRUCTURE BORING LOG

Page 1 of 2
Date 9/29/01

ROUTE U.S. 6 DESCRIPTION U.S. ROUTE 6 FROM I-294 TO ILLINOIS ROUTE 1
SECT. _____ STRUCT. NO. 016-2755 DRILLED BY PATRICK DRILLING
COUNTY COOK LOCATION S. SIDEWALK EAST OF BRIDGE S. 17 TWP. 36 N. R. 12 E

Boring No. W-4 Core Type NX Surface Water Elev. NA
Station 92+15.88 Core Diameter 2 in Groundwater Elev. _____
Offset 25.00R RT Core Length 20 ft when drilling _____
Surface Elev. 602.00 ft after _____ Hrs. _____

DEPTH (ft)	TEST	QUANTITY	W (%)
4	B	4.53	14
11	B		
12			
4	S	3.13	11
13			
17			
4	P	3.25	10
17			
25			
6	P	4.5	11
18			
24			
14	S	2.62	13
37			
35			
17	S	2.62	12
50.5'			
35			
20			
503.5'			
502'			
14			
20			
582.00			

ASPHALT
Very Stiff to Hard, Brown and Gray SILTY CLAY traces - sand and gravel

Very Stiff to Hard, Gray SILTY CLAY LOAM traces - sand and gravel

Extremely Dense, Gray SILTY LOAM traces - sand and gravel

FOR ROCK CORES SEE PAGE 2

SPT: (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

BORING NO. W-4

Everest Engineering Company
STRUCTURE ROCK CORING LOG

Page 2 of 2
Date 9/29/01

ROUTE U.S. 6 DESCRIPTION U.S. ROUTE 6 FROM I-294 TO ILLINOIS ROUTE 1
SECT. _____ STRUCT. NO. 016-2755 DRILLED BY PATRICK DRILLING
COUNTY COOK

Boring No. W-4 Core Type NX Core Diameter 2 in
Station 92+15.88 Core Length 20 ft
Offset 25.00R RT

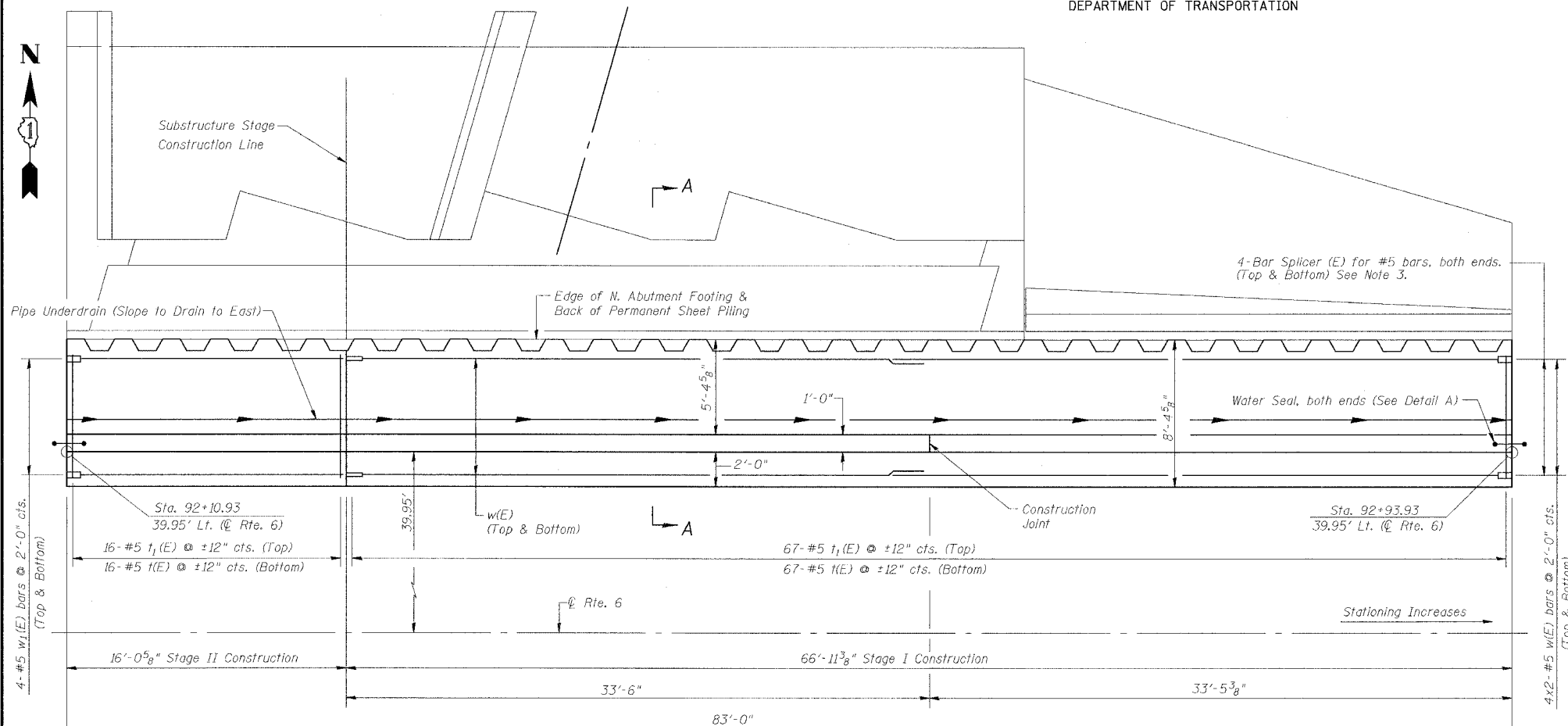
Surface Elev. 602.00 ft

Top Elev. (ft)	Coring Notes and Rock Description	Core Run (ft)	R (%)	R (%)	CORE (ft)	COMP. (lb)
582.00	DOLOMITE (RACINE FORMATION): Gray, massive, hard, fine grained, thick bedded, moderately fractured	1	95	94	3	1275.7
-24.0						1421.7
-30.0		2	100	98	3	
-35.0		3	100	100	3.5	
-40.0	END OF BORING					

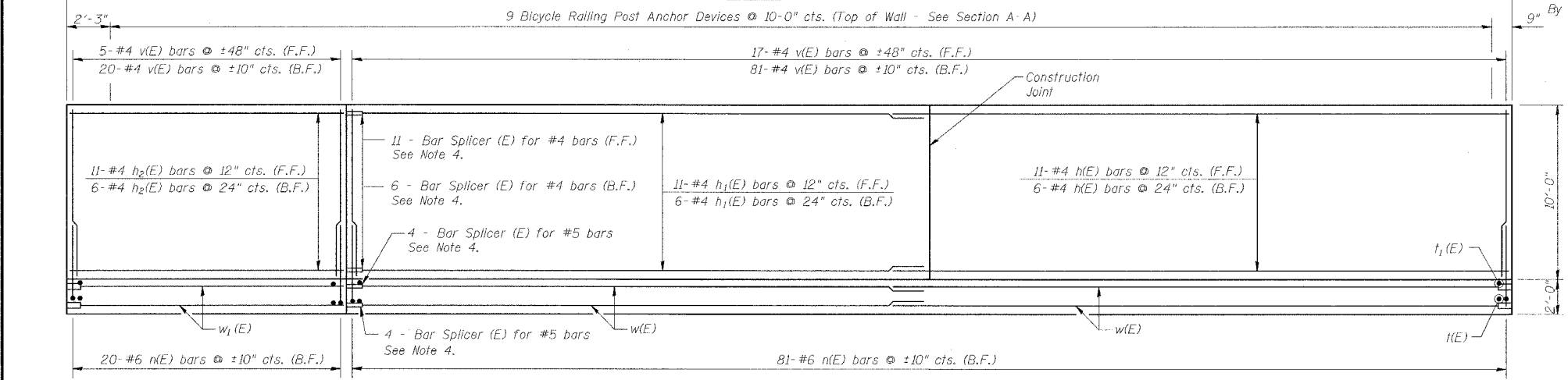
Color pictures of the cores _____ YES _____
Cores will be stored for examination until _____ DECEMBER, 2001.

SOIL BORINGS			Sheet No.
Date 3/27/06	Designed	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	30
Revisions	Drawn REZ		
	Checked		
	Approved		
Prepared By: URS	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	49
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		
Contract No. 62206				



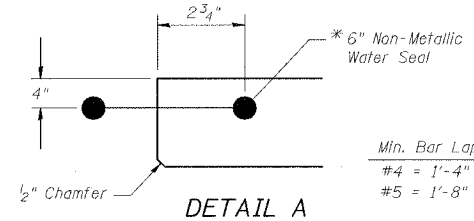
PLAN



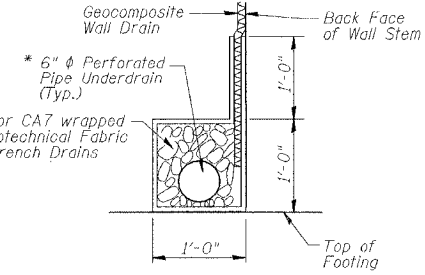
ELEVATION

* Contractor to provide protective cover for Water Seal subject to the approval of the engineer.

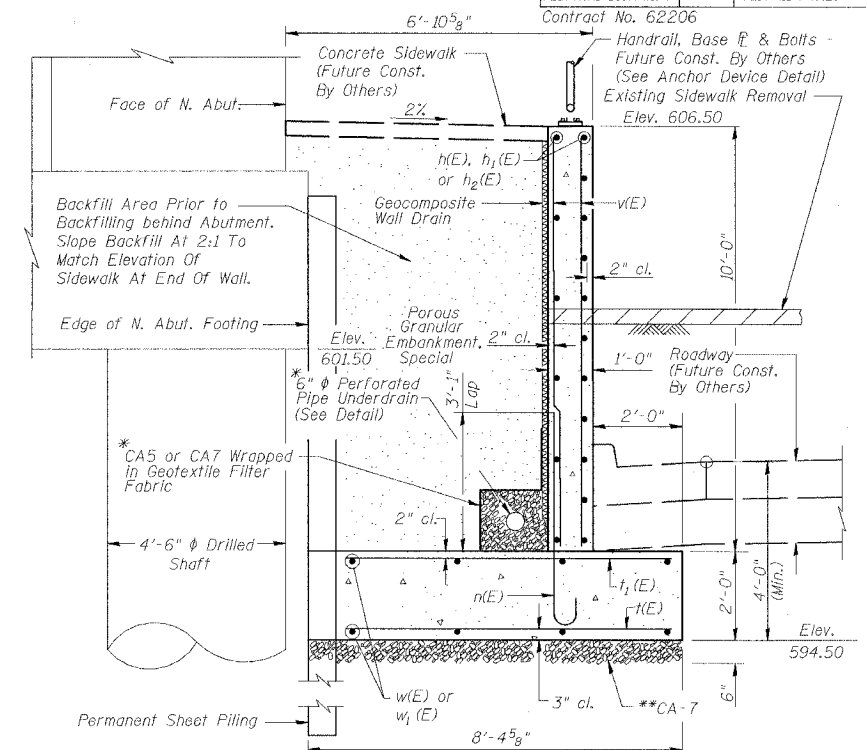
- Notes:
1. Bars indicated thus 4x2-#5 etc., indicates 4 lines of bars with 2 lengths per line.
 2. Reinforcement bars designated (E) shall be epoxy coated.
 3. The unused half of the bar splicers shall be bundled together and clearly labeled with structure number, size and location within the structure (for example: SN 016-2754 #5 bar splicers for sidewalk retaining wall footing). They shall be given to I.D.O.T. for storage and use on future contracts. The open end of the casted bar shall be plugged with an insert subject to the approval of the engineer. Cost is included with Bar Splicers.
 4. See Str.No. 016-2754 Plan Sheet 27 of 30 for details.
 5. See Typical Sections sheet of roadway plans for Commonwealth Edison duct bank facility under north sidewalk immediately adjacent to location of proposed north abutment and sidewalk retaining wall.



DETAIL A



PIPE UNDERDRAIN DETAIL

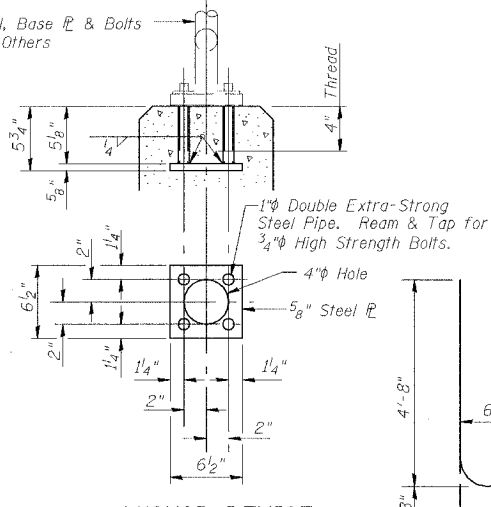


* The Geotextile Filter Fabric and the Perforated Pipe Underdrain shall not be paid for separately as indicated by Art. 601.08 of Section 601 of "Standard Specifications for Road and Bridge Construction", but shall be included for payment with the item Pipe Underdrains For Structures 6"

** The cost of CA-7 bedding under the retaining wall footing shall be included in the cost of Porous Granular Embankment, Special

**SECTION A-A
BILL OF MATERIAL
NORTH
SIDEWALK RETAINING WALL**

Bar	No.	Size	Length	Shape
n(E)	17	#4	34'-8"	
h1(E)	17	#4	33'-3"	
h2(E)	17	#4	15'-9"	
v(E)	101	#6	5'-4"	
h(E)	83	#5	7'-0"	
i1(E)	83	#7	7'-0"	
v1(E)	123	#4	9'-10"	
w(E)	16	#5	34'-2"	
w1(E)	8	#5	15'-8"	
Porous Granular Embankment, Special			Cu. Yd.	149
Structure Excavation			Cu. Yd.	311
Concrete Structures			Cu. Yd.	79.2
Reinforcement Bars, Epoxy Coated			Pound	5070
Geocomposite Wall Drain			Sq. Yd.	82
Pipe Underdrains For Structures 6"			Foot	83
Non-Special Waste Disposal			Cu. Yd.	157
Bar Splicers			Each	41



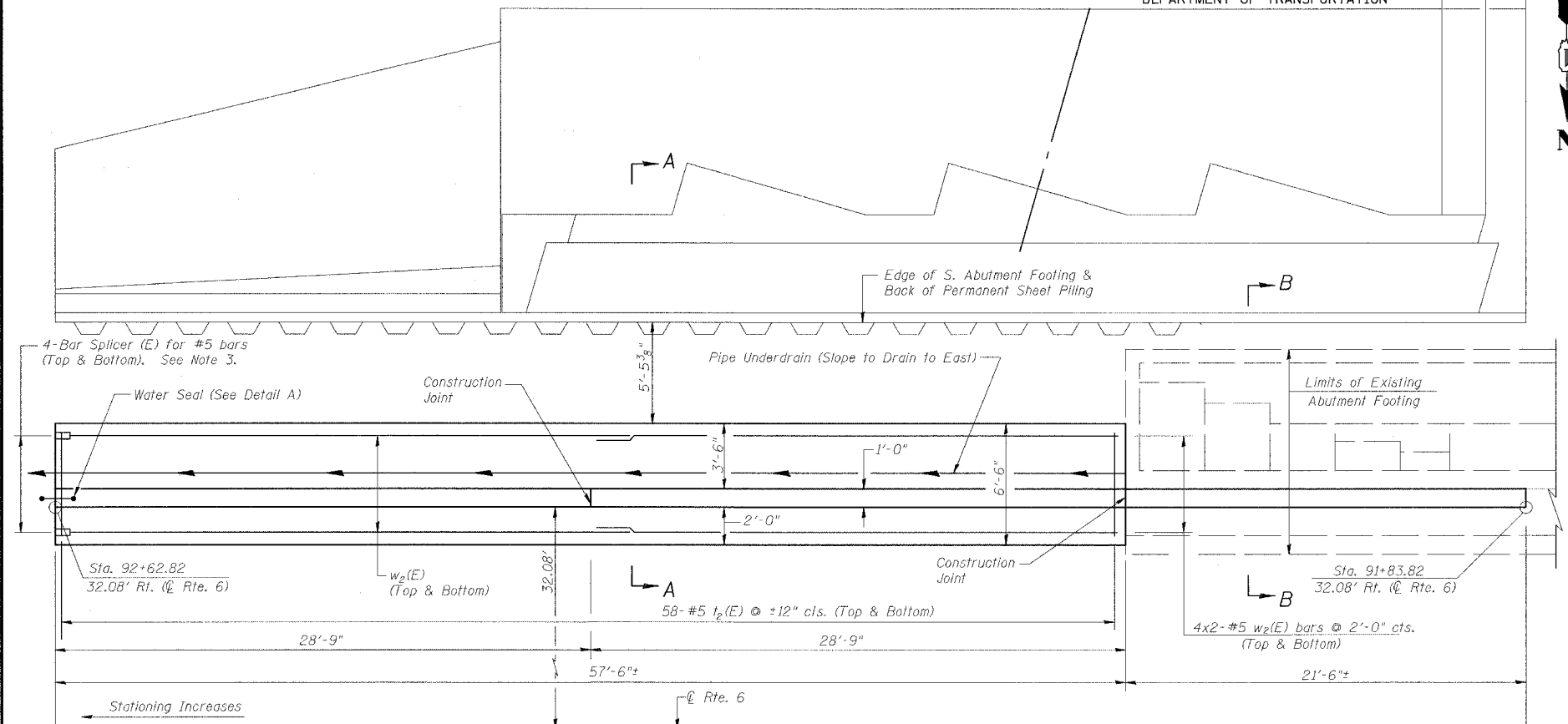
ANCHOR DEVICE

Cost of Anchor Device shall be included in the cost of Concrete Structures. Remainder of Handrail to be included in future contract.

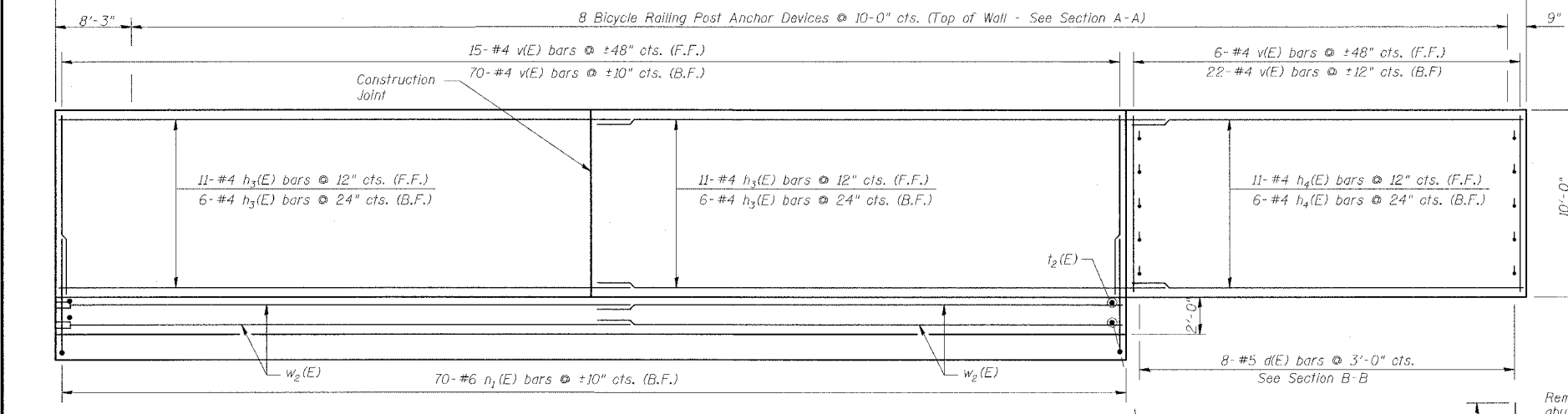
NORTH SIDEWALK RETAINING WALL

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		1
	Checked DCS		of 2
	Approved KWB		
Prepared By: URS	3040 N. University Ave., Suite 1 Decatur, IL.		URS Job No. 36430825

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	50
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT- Contract No. 62206		



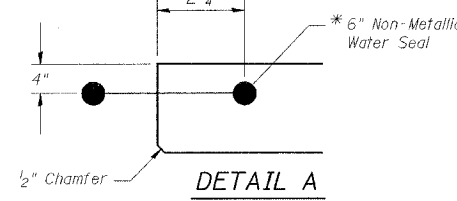
PLAN



ELEVATION

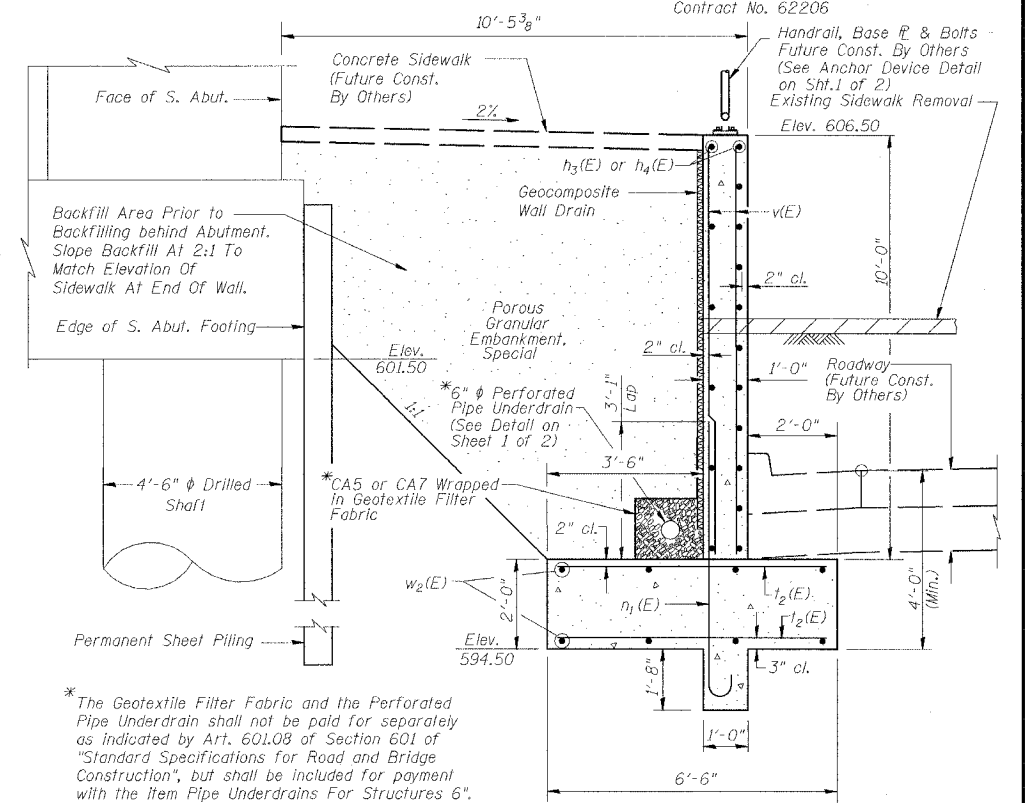
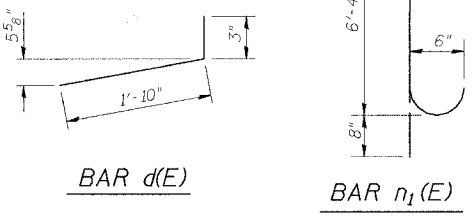
* Contractor to provide protective cover for Water Seal subject to the approval of the engineer.

- Notes:
1. Bars indicated thus 4x2-#5 etc., indicates 4 lines of bars with 2 lengths per line.
 2. Reinforcement bars designated (E) shall be epoxy coated.
 3. The unused half of the bar splicers shall be bundled together and clearly labeled with structure number, size and location within the structure (for example: SN 016-2754 #5 bar splicers for sidewalk retaining wall footing). They shall be given to I.D.O.T. for storage and use on future contracts. The open end of the casted bar shall be plugged with an insert subject to the approval of the engineer. Cost is included with Bar Splicers.



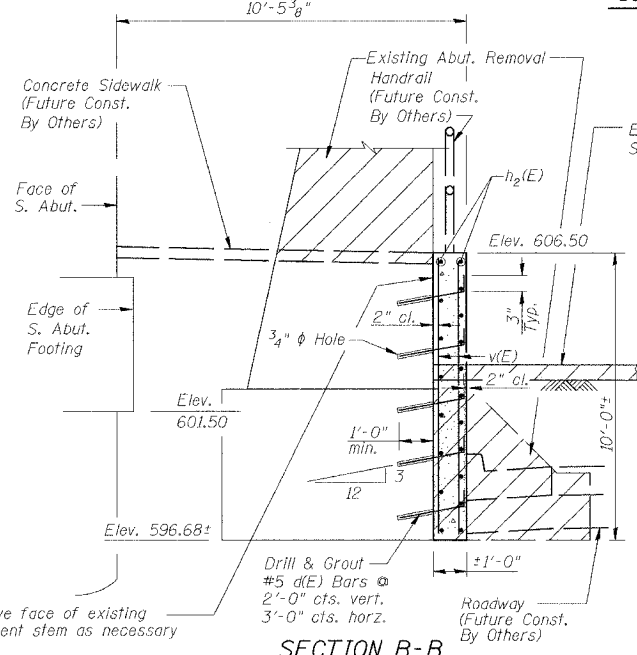
DETAIL A

Min. Bar Lap
#4 = 1'-4"
#5 = 1'-8"



SECTION A-A

* The Geotextile Filter Fabric and the Perforated Pipe Underdrain shall not be paid for separately as indicated by Art. 601.08 of Section 601 of "Standard Specifications for Road and Bridge Construction", but shall be included for payment with the item Pipe Underdrains For Structures 6".



SECTION B-B

BILL OF MATERIAL SOUTH SIDEWALK RETAINING WALL

Bar	No.	Size	Length	Shape
d(E)	40	#5	2'-1"	┌
h3(E)	34	#4	29'-11"	—
h4(E)	17	#4	21'-2"	—
n1(E)	70	#6	7'-0"	┌
t2(E)	116	#5	6'-2"	—
v(E)	113	#4	9'-10"	—
w2(E)	16	#5	29'-5"	—
Porous Granular Embankment, Special		Cu. Yd.	150	
Structure Excavation		Cu. Yd.	217	
Concrete Structures		Cu. Yd.	60.5	
Reinforcement Bars, Epoxy Coated		Pound	3730	
Geocomposite Wall Drain		Sq. Yd.	57	
Pipe Underdrains For Structures 6"		Foot	58	
Bar Splicers		Each	8	

SOUTH SIDEWALK RETAINING WALL

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		2
	Checked DCS		
	Approved KWB		
Prepared By: URS	3040 N. University Ave., Suite 1 Decatur, IL.		of 2
			URS Job No. 36430825

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	51
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ALIGNMENT	FED. AID PROJECT		

CONTRACT NO. 62206

SCHEDULE OF QUANTITIES (TRACK CONSTRUCTION)			
CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	5842
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3870
25000210	SEEDING, CLASS 2A	ACRE	0.8
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	72
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72
25100115	EROSION CONTROL BLANKET	SQ YD	7740
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	100
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80
28000300	TEMPORARY DITCH CHECKS	EACH	13
28000400	PERIMETER EROSION BARRIER	FOOT	422
28000500	INLET AND PIPE PROTECTION	EACH	1
54205069	PIPE CULVERTS, SPECIAL 24"	FOOT	62
54213879	STEEL END SECTIONS 24"	EACH	2
66400570	CHAIN LINK FENCE, 8' (SPECIAL)	FOOT	1248
66410300	CHAIN LINK FENCE REMOVAL	FOOT	1262
70002400	BALLAST	TON	6099
70069800	SUBBALLAST	TON	7573
	RAILROAD TRACK	TRACK FT	5007
	RAILROAD TRACK, REMOVE	TRACK FT	3309
	RAILROAD TRACK SHIFT	EACH	4

EARTHWORK SUMMARY

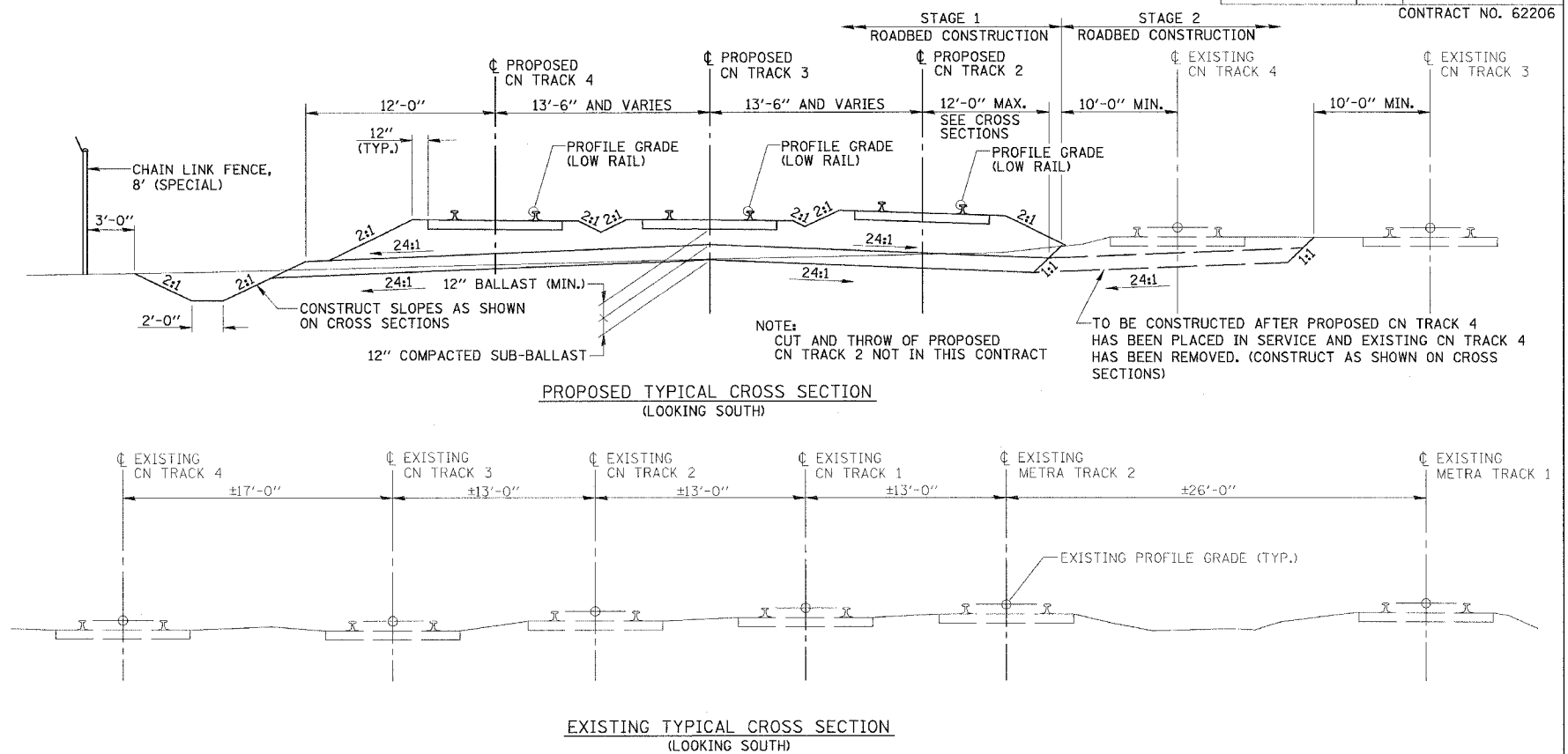
(FOR TRACK CONSTRUCTION ONLY)
 EARTH EXCAVATION (STAGE 1) = 4065 CU. YDS.
 EARTH EXCAVATION (STAGE 2) = 1781 CU. YDS.
 TOTAL = 5842 CU. YDS.

FOR INFORMATION ONLY, NOT A PAY ITEM

EARTH EXCAVATION ADJUSTED FOR SHRINKAGE =
 (5842) (75% SHRINKAGE) = 4382 CU. YDS.
 EMBANKMENT = 1314 CU. YDS.
 WASTE = 4382 - 1314 = 3068 CU. YDS.

GENERAL NOTES

- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL BALLAST, RAIL, TIES, AND OTHER TRACK MATERIALS.
- UTILITIES**
 THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE ENGINEER, CONTRACTOR OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- PROJECT LAYOUT AND STAKING**
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING AND LAYING OUT THE PROJECT FROM THE CONTROL POINTS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL EXERCISE CARE IN PRESERVING THE CONTROL POINTS DURING CONSTRUCTION OR UNTIL HE ESTABLISHES OTHER CONTROL POINTS FOR HIS USE DURING CONSTRUCTION. THE COST OF LAYOUT AND STAKING FOR TRACK WORK IS PAID FOR AS PART OF THE PAY ITEM "CONSTRUCTION LAYOUT". REFER TO RECURRING SPECIAL PROVISION "CONSTRUCTION LAYOUT STAKES".
- THE CONTRACTOR SHALL PROTECT ALL RAILROAD SIGNALS, SIGNAL CABLE AND OTHER PROPERTY.
- LIMITS OF GRADING AND SUBBALLAST WITHIN CONTROL LIMITS SHALL BE TOE OF EXISTING BALLAST UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- EARTH EXCAVATION SHALL INCLUDE ANY EXISTING CONCRETE, BITUMINOUS SURFACE OR OTHER FOREIGN MATERIAL.
- AREA TO BE SEEDED SHALL INCLUDE ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS LESS ROADWAY.
- CHAIN LINK SECURITY FENCE. THE 8-FOOT CHAIN LINK FENCING SHALL BE IN PLACE PRIOR TO REMOVAL OF EXISTING FENCE THAT LIES WITHIN THE CONSTRUCTION LIMITS.



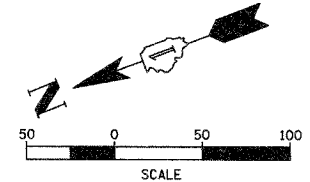
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R
 TRACK CONSTRUCTION
 SUMMARY OF QUANTITIES /
 GENERAL NOTES / TYPICAL SECTIONS
 SHT. 1 OF 15
 DATE 3/27/06

DRAWN BY REZ
 CHECKED BY RMS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	52
STA. 493+11.33		TO STA. 503+00.00		
FED. ROAD DIST. NO. 7		ALABAMA		

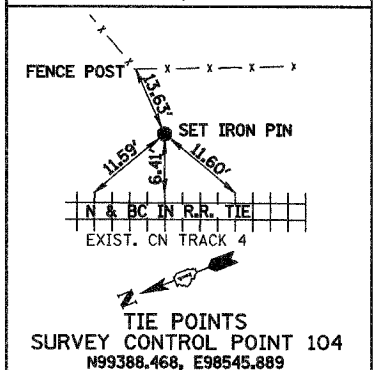
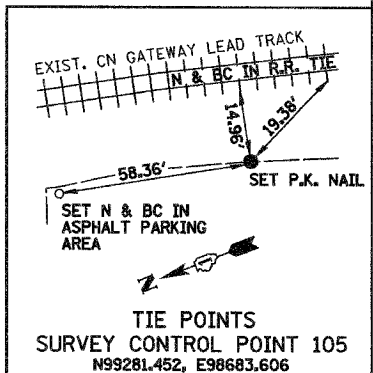
CONTRACT NO. 62206



LEGEND

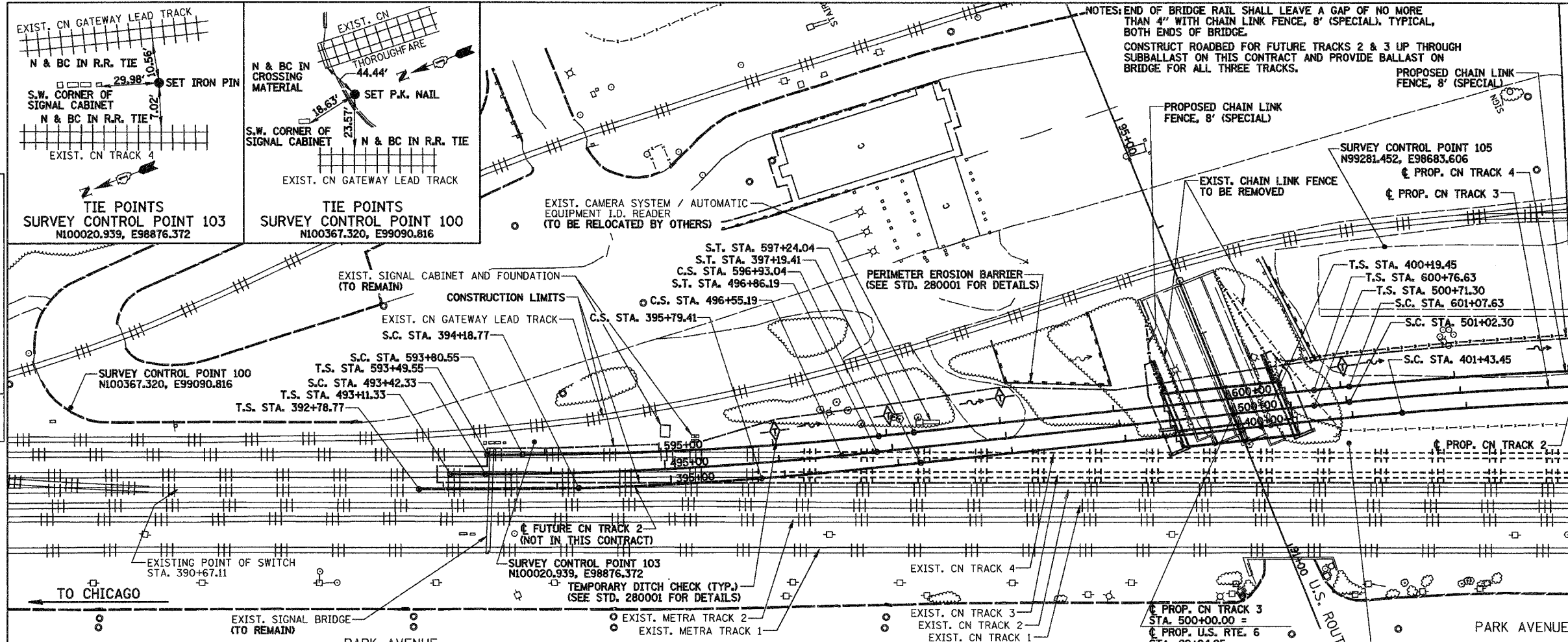
- ☉ PROPOSED TRACK
- ☉ FUTURE TRACK BY OTHERS
- EXISTING TRACK TO BE REMOVED (SEE STAGING PLAN)
- ||| EXISTING TRACK
- PROPOSED CHAIN LINK FENCE, 8' (SPECIAL)
- PERIMETER EROSION BARRIER
- ◇ TEMPORARY DITCH CHECK
- ~ DITCH FLOW ARROW

TO CHAMPAIGN



MATCHLINE STA. 503+00.00 (☉ PROPOSED CN TRACK 3)

NOTES: END OF BRIDGE RAIL SHALL LEAVE A GAP OF NO MORE THAN 4" WITH CHAIN LINK FENCE, 8' (SPECIAL), TYPICAL, BOTH ENDS OF BRIDGE.
CONSTRUCT ROADBED FOR FUTURE TRACKS 2 & 3 UP THROUGH SUBBALLAST ON THIS CONTRACT AND PROVIDE BALLAST ON BRIDGE FOR ALL THREE TRACKS.



DATE _____

BY _____

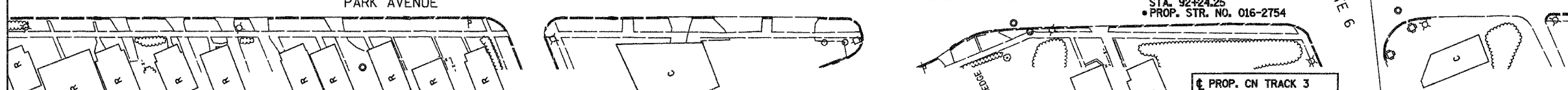
REVISIONS

NO. _____

DATE _____

BY _____

DESCRIPTION _____



- SEEDING, CLASS 2A**
(AREA WITHIN TRACK CONSTRUCTION LIMITS EXCLUDING AREA OCCUPIED BY SUBBALLAST)
STA. 493+00 TO STA. 503+00 = 0.3 ACRES
- NITROGEN FERTILIZER NUTRIENT**
STA. 493+00 TO STA. 503+00 = 27 POUNDS
- PHOSPHORUS FERTILIZER NUTRIENT**
STA. 493+00 TO STA. 503+00 = 27 POUNDS
- POTASSIUM FERTILIZER NUTRIENT**
STA. 493+00 TO STA. 503+00 = 27 POUNDS
- EROSION CONTROL BLANKET**
STA. 493+00 TO STA. 503+00 = 4840 SQ YD
(USE ON ALL SEEDED AREAS)
- TEMPORARY EROSION CONTROL SEEDING**
STA. 493+00 TO STA. 503+00 = 30 POUNDS
- EARTH EXCAVATION FOR EROSION CONTROL**
STA. 493+00 TO STA. 503+00 = 38 CU. YDS.
- PERIMETER EROSION BARRIER**
STA. 493+00 TO STA. 503+00 = 200 FOOT
(CONSTRUCT AS SHOWN, LAYOUT MAY VARY AT THE DIRECTION OF THE ENGINEER.)
- TEMPORARY DITCH CHECK**
STA. 496+00, LT. = 1 EACH
STA. 497+00, LT. = 1 EACH
STA. 498+00, LT. = 1 EACH
STA. 501+00, LT. = 1 EACH
STA. 502+00, RT. = 1 EACH
TOTAL = 5 EACH
- CHAIN LINK FENCE, 8' (SPECIAL)**
(SEE GENERAL NOTES, SHT. 1 OF 15)
STA. 499+32, 90' LT. TO STA. 499+40, 25' LT. = 67 FOOT
STA. 499+96, 126' LT. TO STA. 503+00, 45' LT. = 380 FOOT
TOTAL = 447 FOOT
- CHAIN LINK FENCE REMOVAL**
STA. 499+34, 90' LT. TO STA. 499+65, 10' RT. = 105 FOOT
STA. 500+11, 106' LT. TO STA. 503+00, 33' RT. = 358 FOOT
TOTAL = 463 FOOT

CURVE DATA - PROPOSED CN TRACK 2

CURVE 1	CURVE 2
P.I. STA. 394+99.11 N99932.98, E98787.48 Δ = 3° 12' 46" (LT) D = 2° 00' 00" T = 80.34' R = 2,864.93' L = 160.64' E = 1.13' S.E. = 2 1/4" S.L. = 140.00' T.S. STA. 392+78.77 N100129.79, E98886.53 S.C. STA. 394+18.77 N100005.12, E98822.85 C.S. STA. 395+79.41 N99858.97, E98756.20 S.T. STA. 397+19.41 N99729.15, E98703.81	P.I. STA. 404+25.80 N99074.24, E98439.13 Δ = 9° 51' 27" (RT) D = 1° 45' 00" T = 282.35' R = 3,274.17' L = 563.29' E = 12.15' S.E. = 2" S.L. = 124.00' T.S. STA. 400+19.45 N99450.00, E98593.80 S.C. STA. 401+43.45 N99334.93, E98547.61 C.S. STA. 407+06.74 N98835.98, E98287.62 S.T. STA. 408+30.74 N98732.20, E98219.77

CURVE DATA - PROPOSED CN TRACK 3

CURVE 1	CURVE 2
P.I. STA. 494+98.88 N99932.94, E98799.48 Δ = 5° 28' 30" (LT) D = 1° 45' 00" T = 156.56' R = 3,274.17' L = 312.86' E = 3.74' S.E. = 1/2" S.L. = 31.00' T.S. STA. 493+11.33 N100099.63, E98885.46 S.C. STA. 493+42.33 N100072.11, E98871.18 C.S. STA. 496+55.19 N99787.56, E98741.39 S.T. STA. 496+86.19 N99758.74, E98729.98	P.I. STA. 504+31.56 N99065.87, E98455.20 Δ = 11° 29' 06" (RT) D = 1° 45' 00" T = 329.26' R = 3,274.17' L = 656.28' E = 16.51' S.E. = 1/2" S.L. = 31.00' T.S. STA. 500+71.30 N99400.45, E98588.78 S.C. STA. 501+02.30 N99371.62, E98577.37 C.S. STA. 507+58.58 N98790.57, E98274.59 S.T. STA. 507+89.58 N98764.70, E98257.51

CURVE DATA - PROPOSED CN TRACK 4

CURVE 1	CURVE 2
P.I. STA. 595+36.92 N99896.24, E98799.53 Δ = 5° 28' 07" (LT) D = 1° 45' 00" T = 156.37' R = 3,274.17' L = 312.49' E = 3.73' S.E. = 1/2" S.L. = 31.00' T.S. STA. 593+49.55 N100062.77, E98885.40 S.C. STA. 593+80.55 N100035.25, E98871.12 C.S. STA. 596+93.04 N99751.03, E98741.51 S.T. STA. 597+24.04 N99722.21, E98730.10	P.I. STA. 604+36.89 N99059.60, E98467.24 Δ = 11° 29' 06" (RT) D = 1° 45' 00" T = 329.26' R = 3,274.17' L = 656.29' E = 16.51' S.E. = 1/2" S.L. = 31.00' T.S. STA. 600+76.63 N99394.18, E98600.82 S.C. STA. 601+07.63 N99365.35, E98589.41 C.S. STA. 607+63.91 N98784.29, E98286.63 S.T. STA. 607+94.91 N98758.42, E98269.55

BENCHMARK:

SET "X" CUT ON WALK AT THE SOUTHEASTERLY CORNER OF THE R.R. BRIDGE PIER IN THE CENTERLINE OF 159TH STREET AT THE EAST FACE OF THE BRIDGE, APPROXIMATELY 98 FEET WEST OF CENTER AVE. ELEV. 603.25

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CN RAILROAD OVER
U.S. 6 (159TH STREET)
F.A.P. RTE. 351 SECTION 3277R

**TRACK CONSTRUCTION
GENERAL PLAN**

SHT. 2 OF 15
DATE 3/27/06

DRAWN BY REZ
CHECKED BY RMS

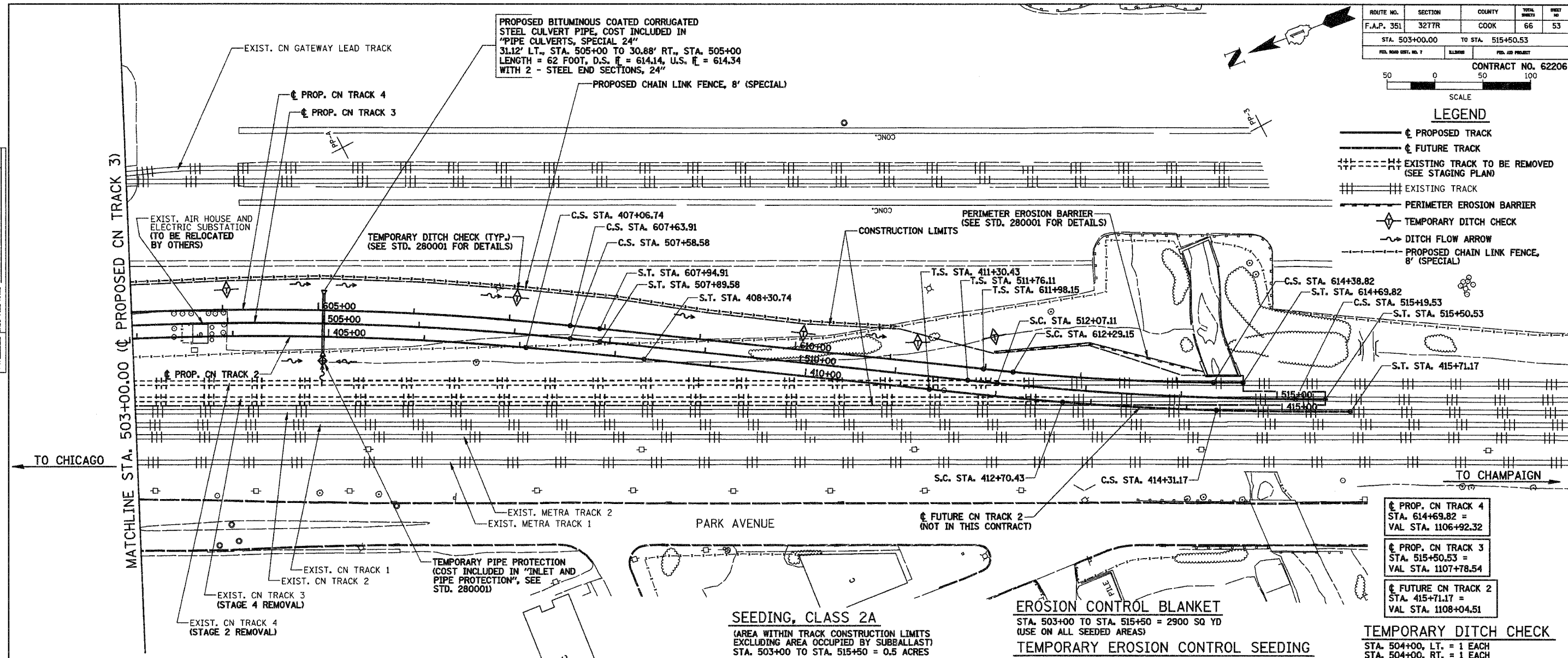
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	53
STA. 503+00.00		TO STA. 515+50.53		
F.L. 3000 DIST. NO. 7		BLANK		F.L. 3000 PROJECT

CONTRACT NO. 62206
 SCALE
 0 50 100

LEGEND

- PROPOSED TRACK
- FUTURE TRACK
- EXISTING TRACK TO BE REMOVED (SEE STAGING PLAN)
- EXISTING TRACK
- - - PERIMETER EROSION BARRIER
- ◇ TEMPORARY DITCH CHECK
- DITCH FLOW ARROW
- - - PROPOSED CHAIN LINK FENCE, 8' (SPECIAL)

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
CHECKED	
DATE	
FILE NAME	



PROP. CN TRACK 4 STA. 614+69.82 = VAL STA. 1106+92.32
PROP. CN TRACK 3 STA. 515+50.53 = VAL STA. 1107+78.54
FUTURE CN TRACK 2 STA. 415+71.17 = VAL STA. 1108+04.51

TEMPORARY DITCH CHECK

STA. 504+00, LT. = 1 EACH
 STA. 504+00, RT. = 1 EACH
 STA. 506+00, RT. = 1 EACH
 STA. 507+00, LT. = 1 EACH
 STA. 507+50, RT. = 1 EACH
 STA. 510+00, LT. = 1 EACH
 STA. 511+20, LT. = 1 EACH
 STA. 512+00, LT. = 1 EACH
 TOTAL = 8 EACH

SEEDING, CLASS 2A

(AREA WITHIN TRACK CONSTRUCTION LIMITS EXCLUDING AREA OCCUPIED BY SUBBALLAST)
 STA. 503+00 TO STA. 515+50 = 0.5 ACRES

NITROGEN FERTILIZER NUTRIENT

STA. 503+00 TO STA. 515+50 = 45 POUNDS

PHOSPHORUS FERTILIZER NUTRIENT

STA. 503+00 TO STA. 515+50 = 45 POUNDS

POTASSIUM FERTILIZER NUTRIENT

STA. 503+00 TO STA. 515+50 = 45 POUNDS

EROSION CONTROL BLANKET

STA. 503+00 TO STA. 515+50 = 2900 SQ YD
 (USE ON ALL SEEDED AREAS)

TEMPORARY EROSION CONTROL SEEDING

STA. 503+00 TO STA. 515+50 = 50 POUNDS

EARTH EXCAVATION FOR EROSION CONTROL

STA. 503+00 TO STA. 515+50 = 62 CU. YDS.

PERIMETER EROSION BARRIER

STA. 503+00 TO STA. 515+50 = 222 FOOT
 (CONSTRUCT AS SHOWN, LAYOUT MAY VARY AT THE DIRECTION OF THE ENGINEER.)

INLET AND PIPE PROTECTION

STA. 505+00, 33' RT. = 1 EACH

BENCHMARK:
 SET "X" CUT ON WALK AT THE SOUTHEASTERLY CORNER OF THE R.R. BRIDGE PIER IN THE CENTERLINE OF 159TH STREET AT THE EAST FACE OF THE BRIDGE, APPROXIMATELY 98 FEET WEST OF CENTER AVE.
 ELEV. 603.25

CURVE DATA - PROPOSED CN TRACK 2

CURVE 2	CURVE 3
P.I. STA. 404+25.80	P.I. STA. 413+50.82
N99074.24, E98439.13	N98297.00, E97935.04
$\Delta = 9^\circ 51' 27''$ (RT)	$\Delta = 3^\circ 12' 53''$ (LT)
D = 1° 45' 00"	D = 2° 00' 00"
T = 282.35'	T = 80.40'
R = 3,274.17'	R = 2,864.93'
L = 563.29'	L = 160.74'
E = 12.15'	E = 1.13'
S.E. = 2"	S.E. = 2/4"
S.L. = 124.00'	S.L. = 140.00'
T.S. STA. 400+19.45	T.S. STA. 411+30.43
N99450.00, E98593.80	N98482.40, E98054.20
S.C. STA. 401+43.45	S.C. STA. 412+70.43
N99334.93, E98547.61	N98365.08, E97977.81
C.S. STA. 407+06.74	C.S. STA. 414+31.17
N98835.98, E98287.62	N98226.64, E97896.16
S.T. STA. 408+30.74	S.T. STA. 415+71.17
N98732.20, E98219.77	N98103.01, E97830.46

CURVE DATA - PROPOSED CN TRACK 3

CURVE 2	CURVE 3
P.I. STA. 504+31.56	P.I. STA. 513+63.44
N99065.87, E98455.20	N98285.93, E97941.12
$\Delta = 11^\circ 29' 06''$ (RT)	$\Delta = 5^\circ 28' 02''$ (LT)
D = 1° 45' 00"	D = 1° 45' 00"
T = 329.26'	T = 156.33'
R = 3,274.17'	R = 3,274.17'
L = 656.28'	L = 312.42'
E = 16.51'	E = 3.73'
S.E. = 1/2"	S.E. = 1/2"
S.L. = 31.00'	S.L. = 31.00'
T.S. STA. 500+71.30	T.S. STA. 511+76.11
N99400.45, E98588.78	N98442.52, E98043.96
S.C. STA. 501+02.30	S.C. STA. 512+07.11
N99371.62, E98577.37	N98416.65, 98026.88
C.S. STA. 507+58.58	C.S. STA. 515+19.53
N98790.57, E98274.59	N98147.64, E97868.22
S.T. STA. 507+89.58	S.T. STA. 515+50.53
N98764.70, E98257.51	N98120.17, E97853.85

CURVE DATA - PROPOSED CN TRACK 4

CURVE 2	CURVE 3
P.I. STA. 604+36.89	P.I. STA. 613+34.06
N99059.60, E98467.24	N98308.60, E97972.33
$\Delta = 11^\circ 29' 06''$ (RT)	$\Delta = 5^\circ 14' 30''$ (LT)
D = 1° 45' 00"	D = 2° 30' 00"
T = 329.26'	T = 104.91'
R = 3,274.17'	R = 2,292.01'
L = 656.29'	L = 209.66'
E = 16.51'	E = 2.40'
S.E. = 1/2"	S.E. = 1/2"
S.L. = 31.00'	S.L. = 31.00'
T.S. STA. 600+76.63	T.S. STA. 611+98.15
N99394.18, E98600.82	N98422.31, E98046.77
S.C. STA. 601+07.63	S.C. STA. 612+29.15
N99365.35, E98589.41	N98396.44, E98029.70
C.S. STA. 607+63.91	C.S. STA. 614+38.82
N98784.29, E98286.63	N98215.88, E97923.23
S.T. STA. 607+94.91	S.T. STA. 614+69.82
N98758.42, E98269.55	N98188.42, E97908.84

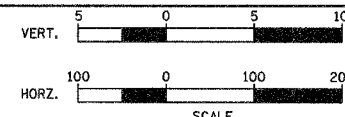
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R

TRACK CONSTRUCTION
 GENERAL PLAN

SHT. 3 OF 15
 DATE 3/27/06

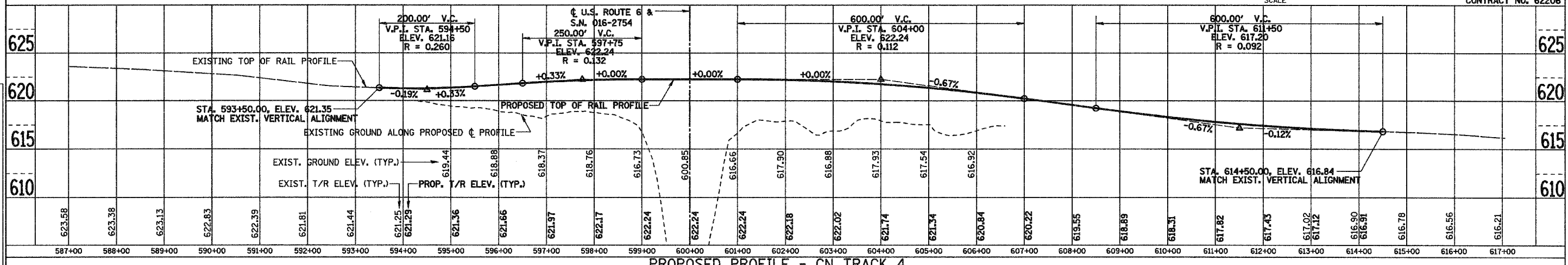
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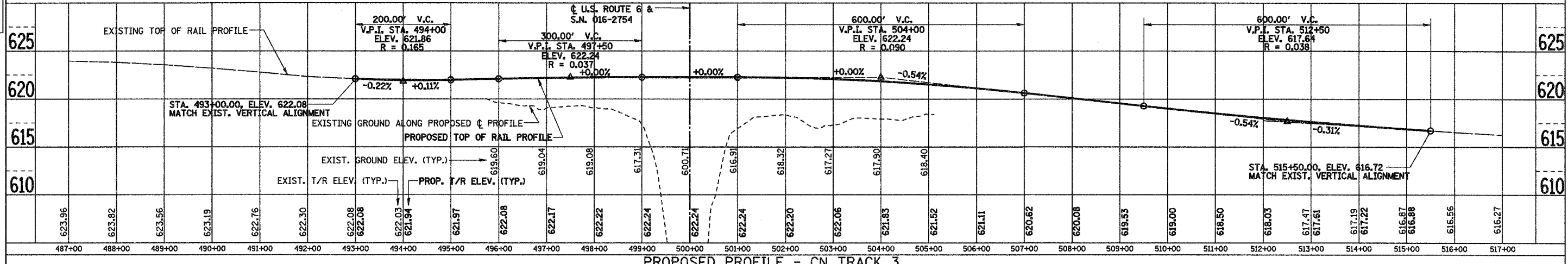
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	54
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62206

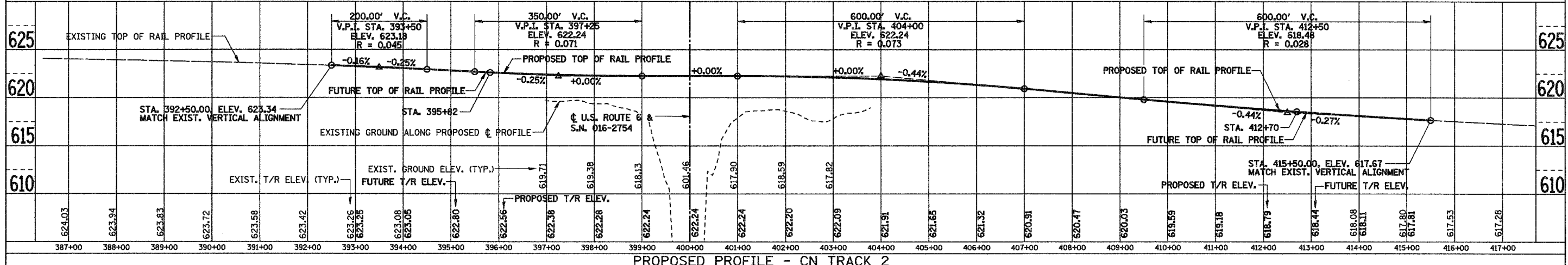
DATE _____
 BY _____
 SUPERVISOR _____
 CHECKED _____
 PLAN _____
 NOTE BOOK _____
 NO. _____



PROPOSED PROFILE - CN TRACK 4



PROPOSED PROFILE - CN TRACK 3



PROPOSED PROFILE - CN TRACK 2

REVISIONS	
NAME	DATE

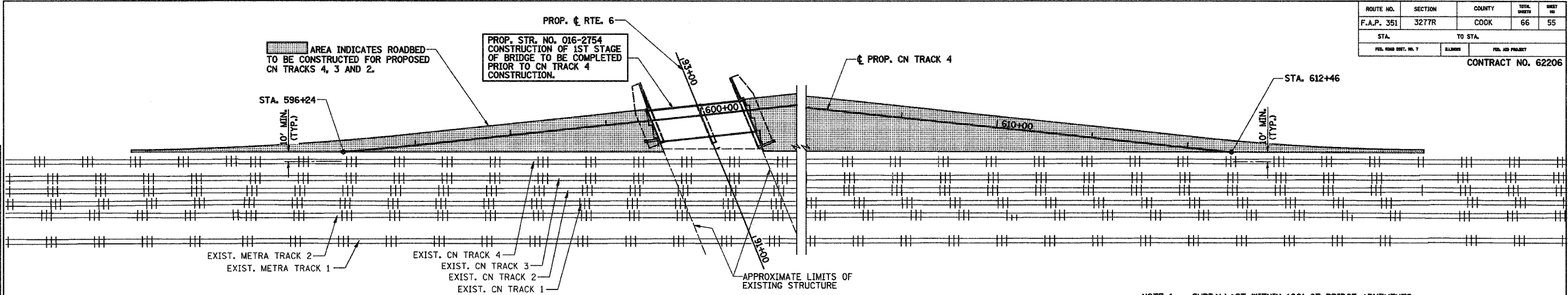
ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R
 TRACK CONSTRUCTION
 TRACK PROFILES
 SHT. 4 OF 15
 DATE 3/27/06
 DRAWN BY REZ
 CHECKED BY RMS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	55
STA. TO STA.		TO STA.		
FEL ROAD DIST. NO. 7		BLK/CRS.	FEL. JOB PROJECT	

CONTRACT NO. 62206

DATE	BY	CHECKED	DATE

PLAN	NO.
DATE	BY
CHECKED	DATE
DATE	BY
CHECKED	DATE



STAGE 1 TRACK CONSTRUCTION

RAILROAD TRACK

PROP. CN TRACK 4 - STA. 596+24 TO STA. 612+46 = 1622 TRACK FT.

SUBBALLAST

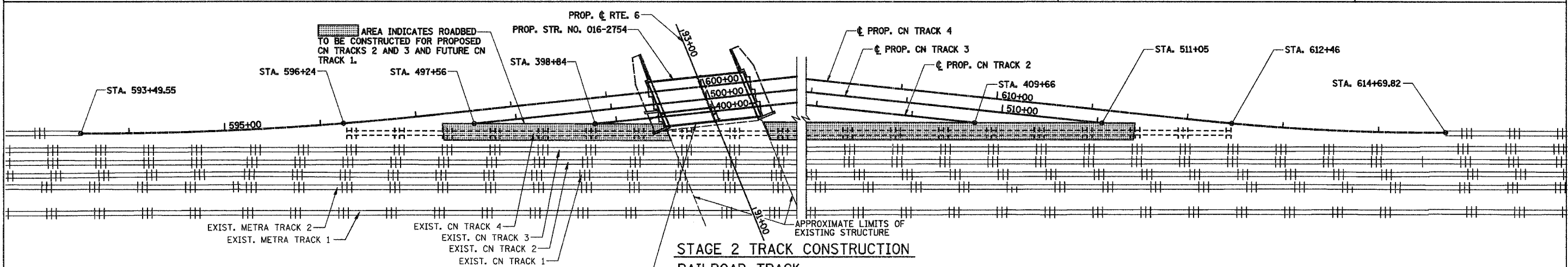
(SUBBALLAST FOR ENTIRE ROADWAY)
PROPOSED CN TRACK 3 - STA. 495+00 TO STA. 514+00 = 5851 TONS
(BRIDGE OMISSION STA. 499+44.21 TO STA. 500+51.48) (NOTE 1)

BALLAST

PROP. CN TRACK 4 - STA. 596+24 TO STA. 612+46 = 3362 TONS
PROP. CN TRACK 3 - STA. 497+56 TO STA. 511+05 = 2258 TONS
TOTAL = 5620 TONS

LEGEND

- NEW TRACK CONSTRUCTION
- NEW TRACK COMPLETED IN PREVIOUS STAGE
- EXISTING TRACK TO BE REALIGNED
- FUTURE TRACK BY OTHERS
- EXISTING TRACK TO BE REMOVED AS SHOWN
- EXISTING TRACK



STAGE 2 TRACK CONSTRUCTION

RAILROAD TRACK

PROP. CN TRACK 3 - STA. 497+56 TO STA. 511+05 = 1349 TRACK FT.
PROP. CN TRACK 2 - STA. 398+84 TO STA. 409+66 = 1082 TRACK FT.
TOTAL = 2431 TRACK FT.

RAILROAD TRACK SHIFT

REALIGN EXISTING CN TRACK 4 (CUT AND THROW BY OTHERS)
STA. 593+49.55 TO STA. 596+24 = 1 EACH
STA. 612+46 TO STA. 614+69.82 = 1 EACH
TOTAL = 2 EACH

RAILROAD TRACK, REMOVE

EXISTING CN TRACK 4 TO BE REMOVED AS SHOWN
TOTAL = 1613 TRACK FEET

SUBBALLAST

PROPOSED CN TRACK 3 - STA. 497+22 TO STA. 511+40 = 1722 TONS
(BRIDGE OMISSION STA. 499+44.21 TO STA. 500+51.48) (NOTE 1)

BALLAST

(BALLAST ON BRIDGE FOR FUTURE CN TRACK 2 AFTER 2ND STAGE OF BRIDGE HAS BEEN COMPLETED)
TOTAL = 147 TONS

PROP. STR. NO. 016-2754
CONSTRUCTION OF 2ND STAGE OF BRIDGE TO BE COMPLETED PRIOR TO CN TRACK 3 AND 2 CONSTRUCTION.

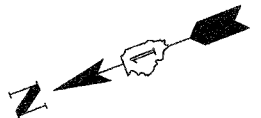
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CN RAILROAD OVER
U.S. 6 (159TH STREET)
F.A.P. RTE. 351 SECTION 3277R

**TRACK CONSTRUCTION
STAGING PLAN**

SHT. 5 OF 15
DATE 3/27/06

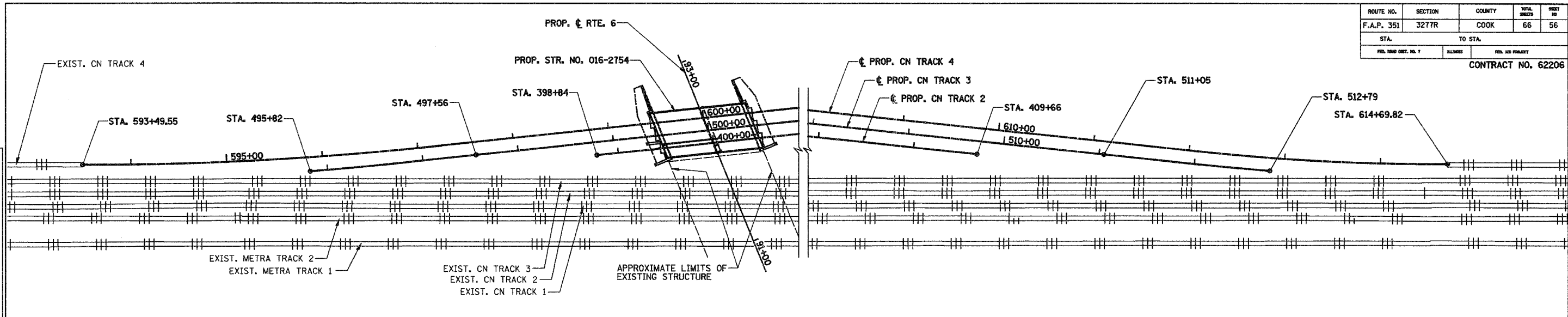
DRAWN BY REZ
CHECKED BY RMS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	56
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62206

DATE _____
 BY _____
 SURVEYED _____
 ALIGNED _____
 CHECKED _____
 RT. OF WAY CHECKED _____
 FOUND FILE NAME _____
 PLAN _____
 NOTE BOOK _____
 NO. _____



STAGE 3 TRACK CONSTRUCTION

RAILROAD TRACK

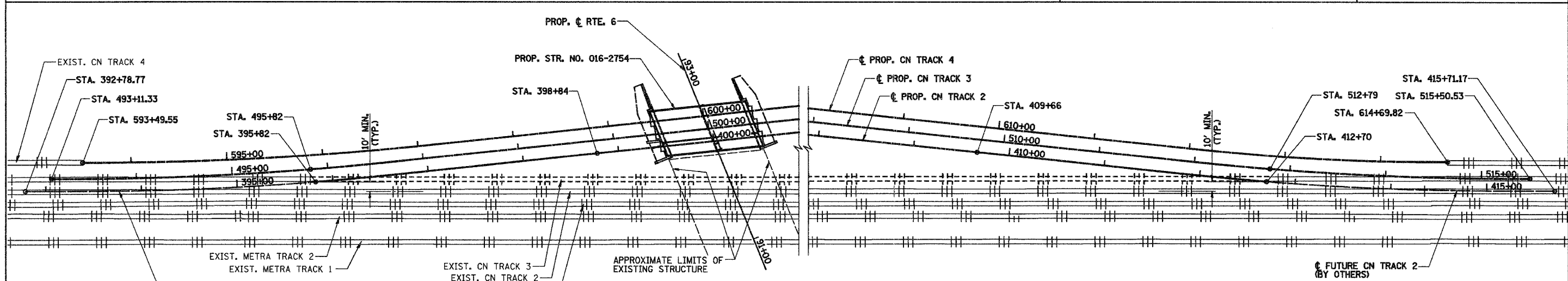
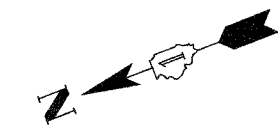
PROP. CN TRACK 3 - STA. 495+82 TO STA. 497+56 = 174 TRACK FT.
 PROP. CN TRACK 3 - STA. 511+05 TO STA. 512+79 = 174 TRACK FT.
 TOTAL = 348 TRACK FT.

BALLAST

PROP. CN TRACK 3 - STA. 495+82 TO STA. 497+56 = 166 TONS
 STA. 596+24 TO STA. 612+46 = 166 TONS
 TOTAL = 332 TONS

LEGEND

- NEW TRACK CONSTRUCTION
- NEW TRACK COMPLETED IN PREVIOUS STAGE
- EXISTING TRACK TO BE REALIGNED
- FUTURE TRACK BY OTHERS
- EXISTING TRACK TO BE REMOVED AS SHOWN
- ||| EXISTING TRACK



STAGE 4 TRACK CONSTRUCTION

RAILROAD TRACK SHIFT

REALIGN EXISTING CN TRACK 3 (CUT AND THROW BY OTHERS)
 STA. 493+49.55 TO STA. 495+82 = 1 EACH
 STA. 512+79 TO STA. 515+50.53 = 1 EACH
 TOTAL = 2 EACH

RAILROAD TRACK, REMOVE

EXISTING CN TRACK 3 TO BE REMOVED AS SHOWN
 TOTAL = 1696 TRACK FEET

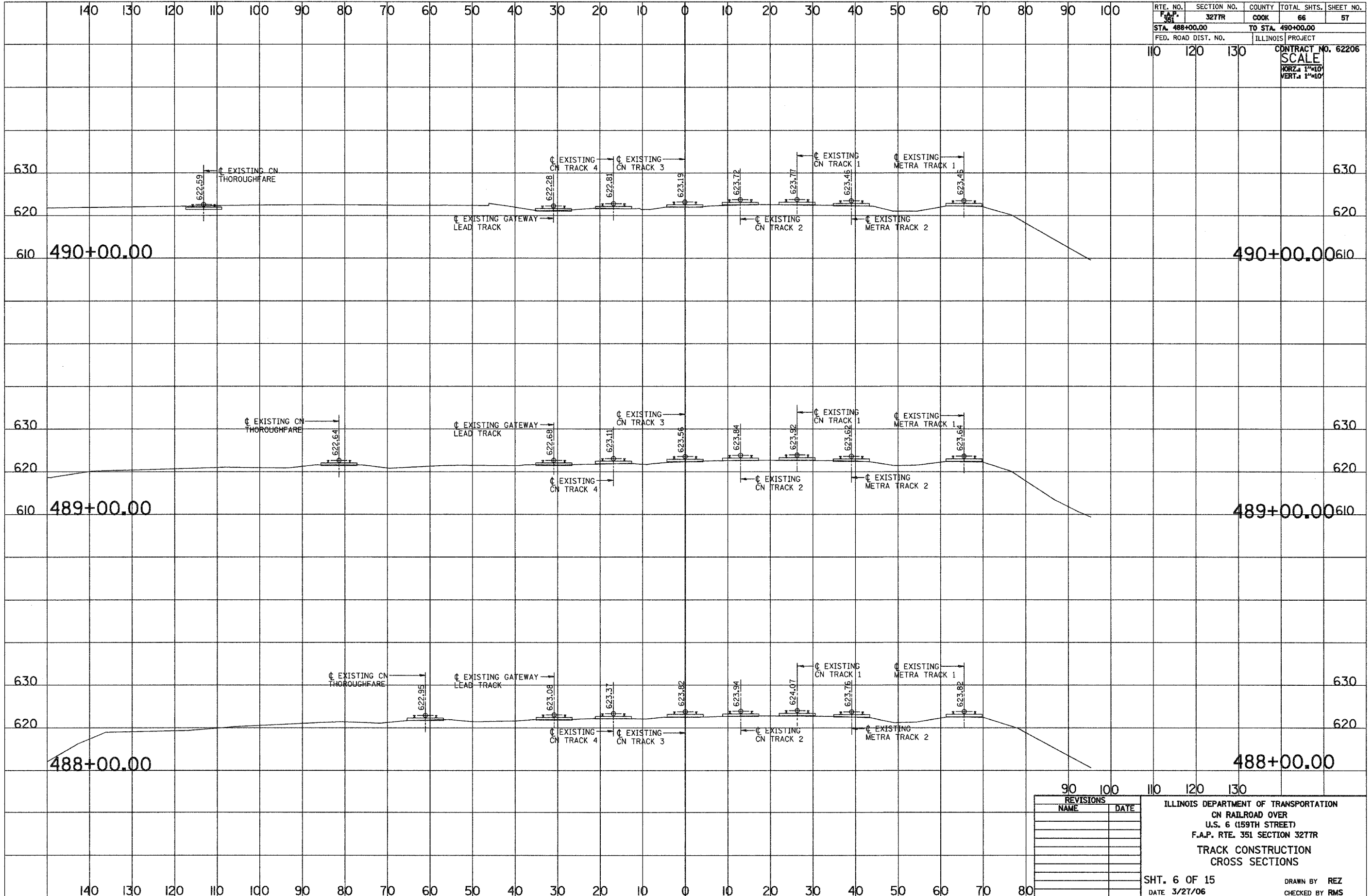
RAILROAD TRACK

(AFTER REMOVAL OF, AND CUT AND THROW OF CN TRACK 3)
 PROP. CN TRACK 2 - STA. 395+82 TO STA. 398+84 = 302 TRACK FT.
 PROP. CN TRACK 2 - STA. 409+66 TO STA. 412+70 = 304 TRACK FT.
 TOTAL = 606 TRACK FT.

REVISIONS	
NAME	DATE
REZ	1/17/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R
TRACK CONSTRUCTION STAGING PLAN
 SHT. 5A OF 15
 DATE 3/27/06
 DRAWN BY REZ
 CHECKED BY RMS





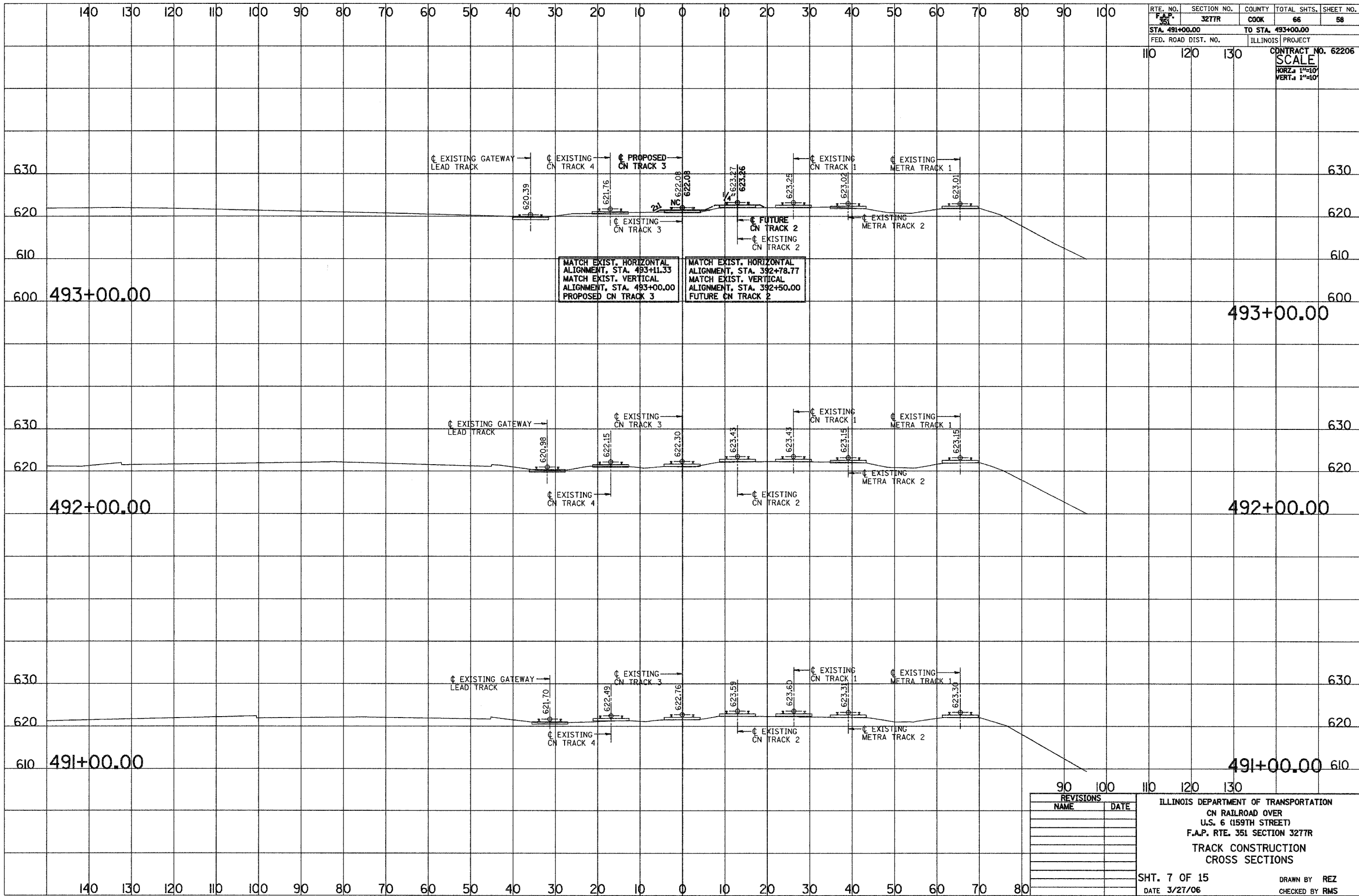
RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	327TR	COOK	66	57
STA. 488+00.00		TO STA. 490+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
		CONTRACT NO. 62206		
SCALE				
HORIZ. 1"=10'				
VERT. 1"=10'				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 327TR
 TRACK CONSTRUCTION
 CROSS SECTIONS

SHT. 6 OF 15
 DATE 3/27/06

DRAWN BY REZ
 CHECKED BY RMS



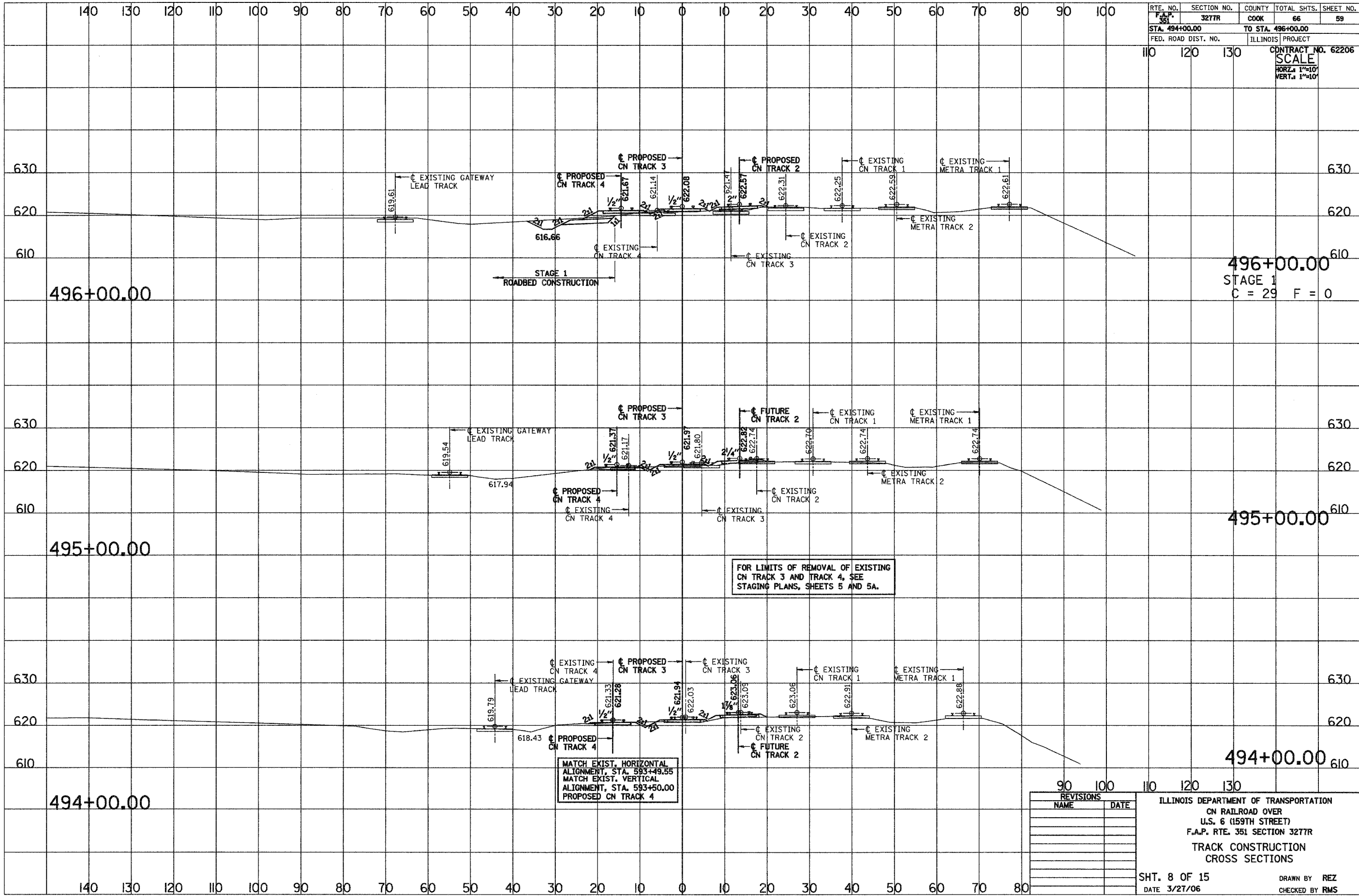
RTE. NO. F.A.P. 351	SECTION NO. 3277R	COUNTY COOK	TOTAL SHTS. 66	SHEET NO. 58
STA. 491+00.00		TO STA. 493+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
		CONTRACT NO. 62206		

SCALE
HORIZ. 1"=10'
VERT. 1"=10'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R
 TRACK CONSTRUCTION
 CROSS SECTIONS

SHT. 7 OF 15
 DATE 3/27/06
 DRAWN BY REZ
 CHECKED BY RMS

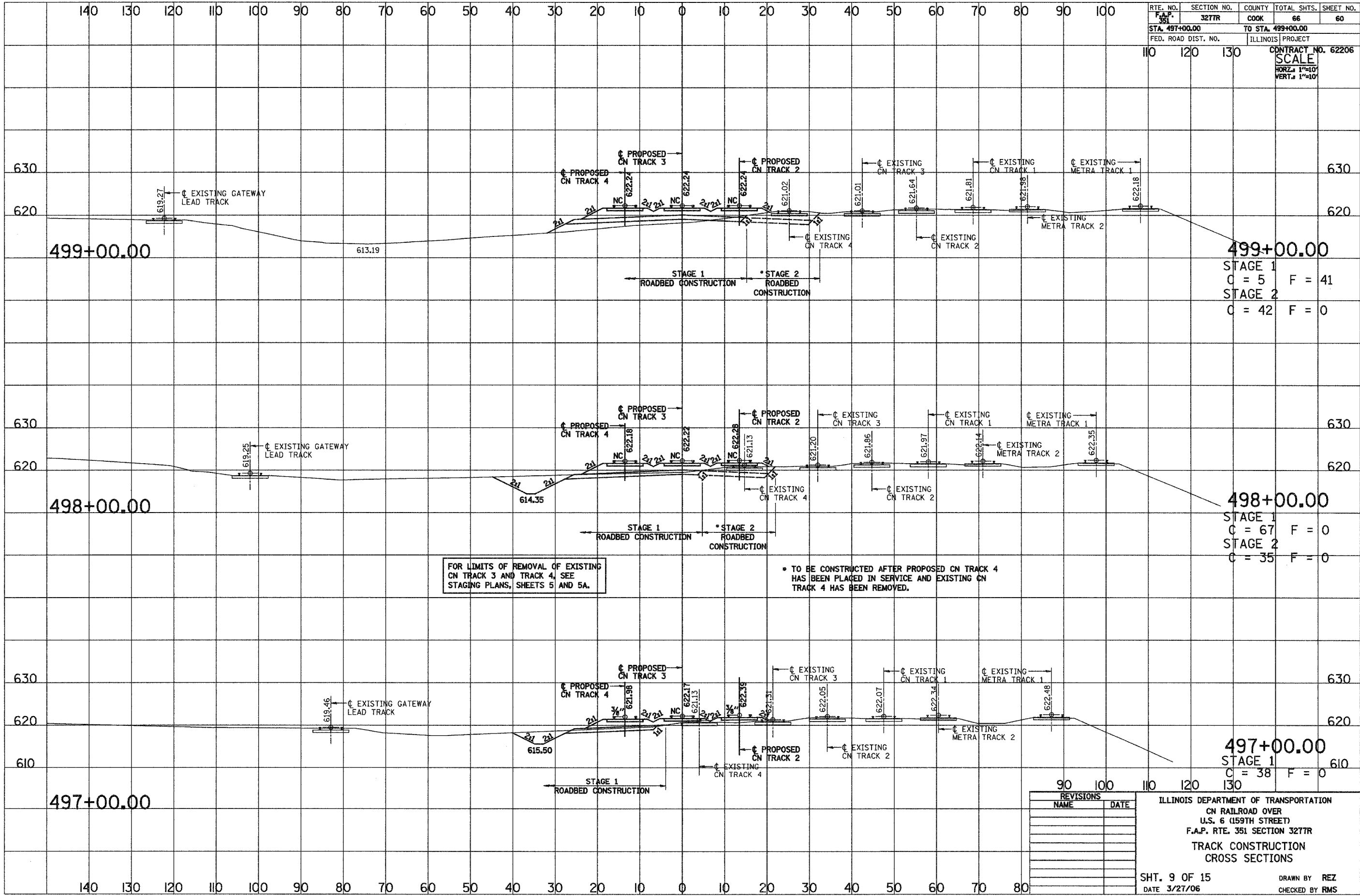


RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	3277R	COOK	66	59
STA. 494+00.00		TO STA. 496+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
		CONTRACT NO. 62206		
		SCALE		
		HORZ. 1"=10'		
		VERT. 1"=10'		

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R
 TRACK CONSTRUCTION
 CROSS SECTIONS

SHT. 8 OF 15
 DATE 3/27/06
 DRAWN BY REZ
 CHECKED BY RMS



RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	3277R	COOK	66	60
STA. 497+00.00		TO STA. 499+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
CONTRACT NO. 62206				SCALE
				HORZ. 1"=10'
				VERT. 1"=10'

STAGE 1
C = 5 F = 41

STAGE 2
C = 42 F = 0

STAGE 1
C = 67 F = 0

STAGE 2
C = 35 F = 0

STAGE 1
C = 38 F = 0

FOR LIMITS OF REMOVAL OF EXISTING CN TRACK 3 AND TRACK 4, SEE STAGING PLANS, SHEETS 5 AND 5A.

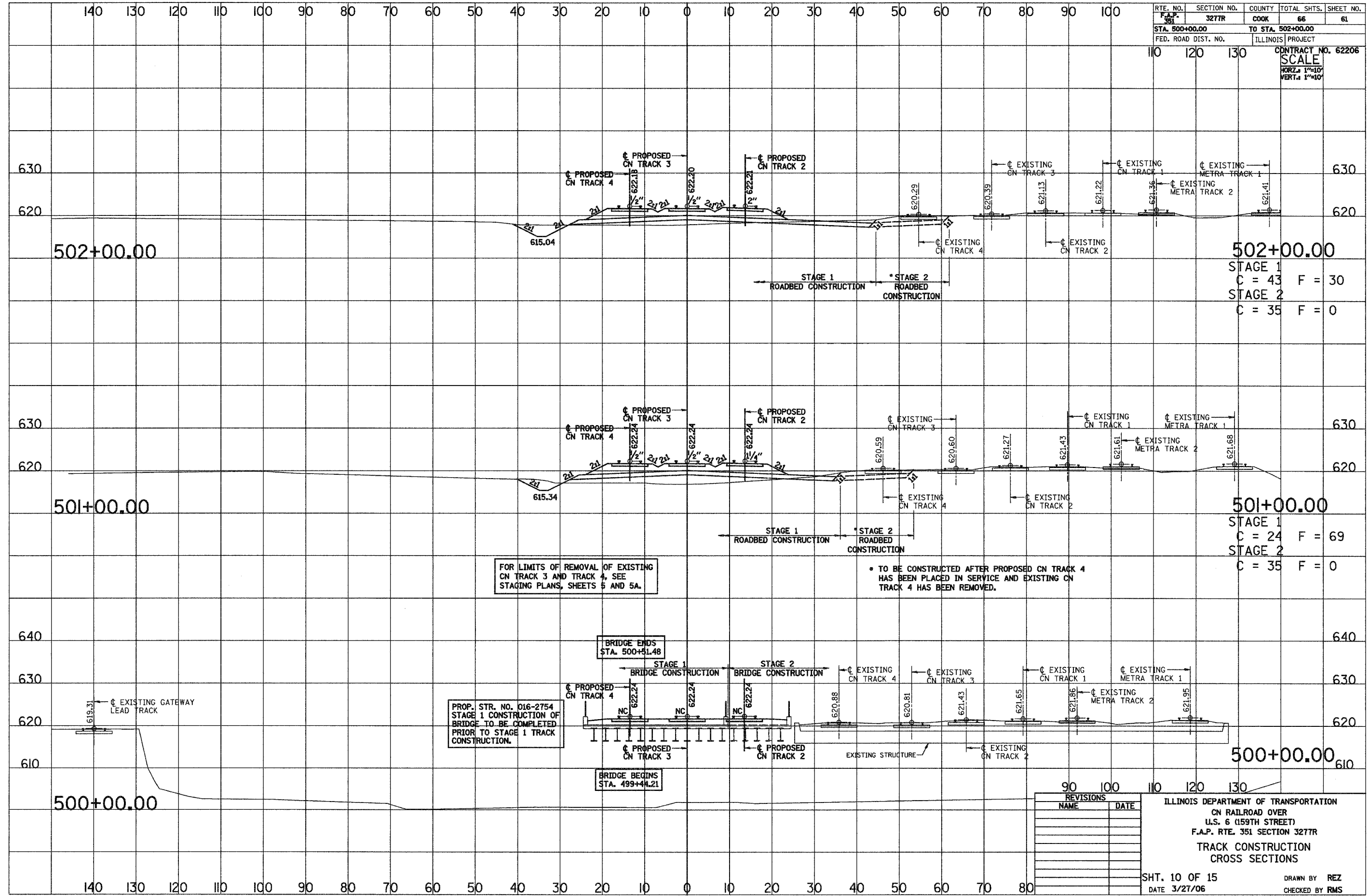
* TO BE CONSTRUCTED AFTER PROPOSED CN TRACK 4 HAS BEEN PLACED IN SERVICE AND EXISTING CN TRACK 4 HAS BEEN REMOVED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CN RAILROAD OVER
U.S. 6 (159TH STREET)
F.A.P. RTE. 351 SECTION 3277R
TRACK CONSTRUCTION
CROSS SECTIONS

SHT. 9 OF 15
DATE 3/27/06

DRAWN BY REZ
CHECKED BY RMS



RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	327TR	COOK	66	61
STA. 500+00.00		TO STA. 502+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
		CONTRACT NO. 62206		
		SCALE		
		HORIZ. 1"=10'		
		VERT. 1"=10'		

FOR LIMITS OF REMOVAL OF EXISTING CN TRACK 3 AND TRACK 4, SEE STAGING PLANS, SHEETS 5 AND 5A.

• TO BE CONSTRUCTED AFTER PROPOSED CN TRACK 4 HAS BEEN PLACED IN SERVICE AND EXISTING CN TRACK 4 HAS BEEN REMOVED.

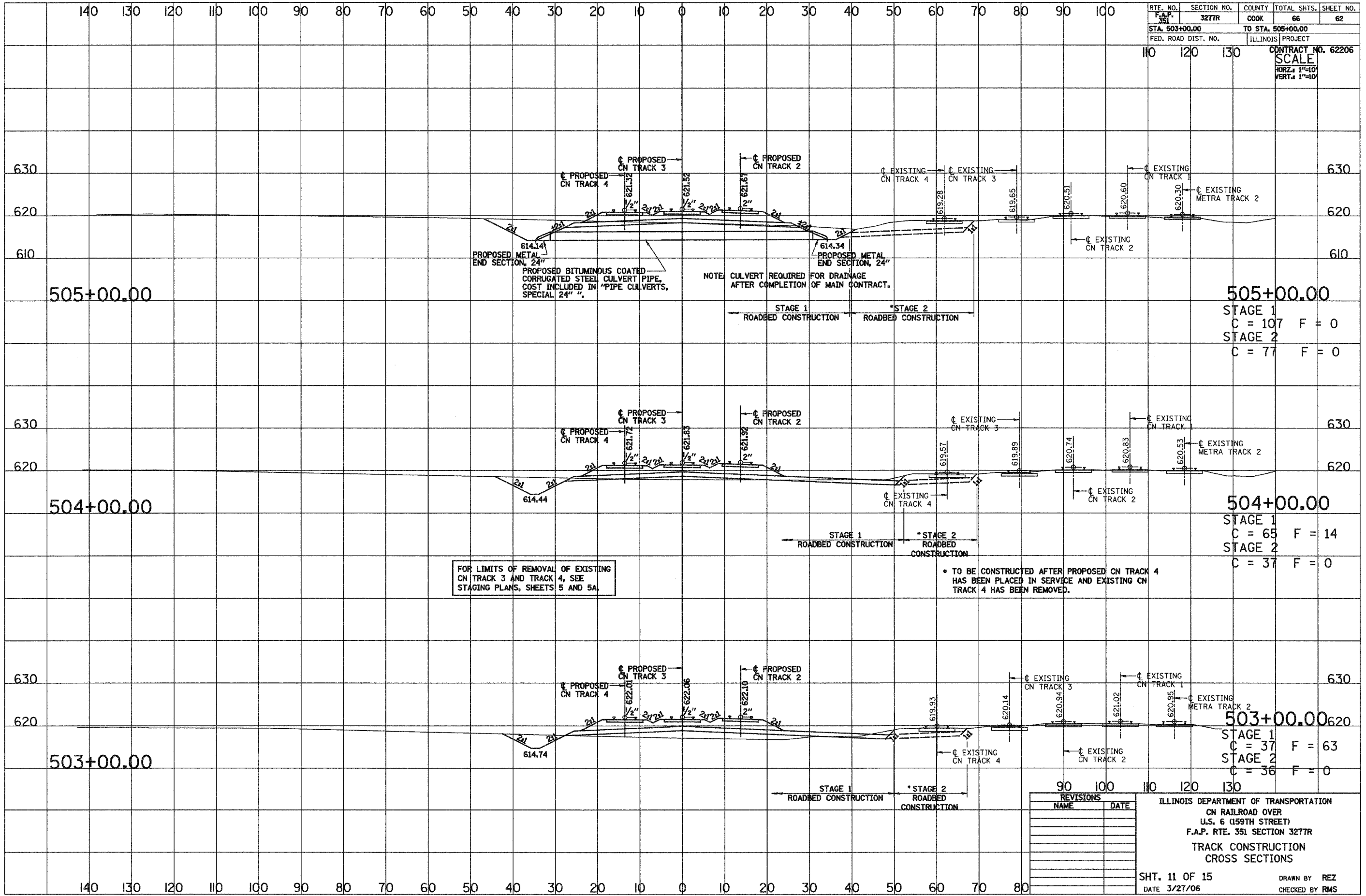
PROP. STR. NO. D16-2754
STAGE 1 CONSTRUCTION OF BRIDGE TO BE COMPLETED PRIOR TO STAGE 1 TRACK CONSTRUCTION.

BRIDGE ENDS STA. 500+51.48

BRIDGE BEGINS STA. 499+44.21

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CN RAILROAD OVER
U.S. 6 (159TH STREET)
F.A.P. RTE. 351 SECTION 327TR
TRACK CONSTRUCTION
CROSS SECTIONS
SHT. 10 OF 15
DATE 3/27/06
DRAWN BY REZ
CHECKED BY RMS



RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	3277R	COOK	66	62
STA. 503+00.00		TO STA. 505+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
CONTRACT NO. 62206				SCALE
				HORIZ. 1"=10'
				VERT. 1"=10'

505+00.00

505+00.00

STAGE 1
C = 107 F = 0
STAGE 2
C = 77 F = 0

504+00.00

504+00.00

STAGE 1
C = 65 F = 14
STAGE 2
C = 37 F = 0

503+00.00

503+00.00

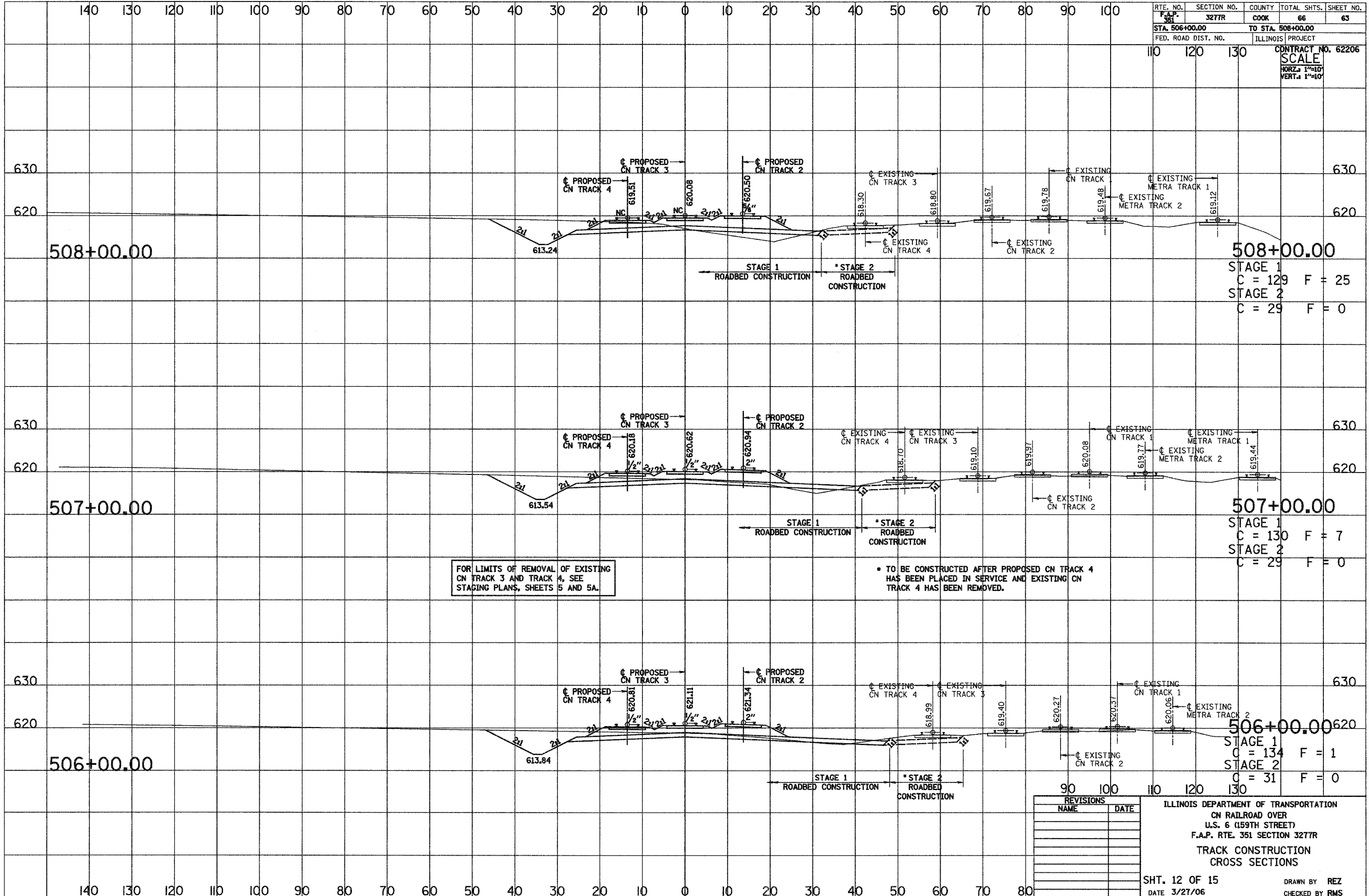
STAGE 1
C = 37 F = 63
STAGE 2
C = 36 F = 0

FOR LIMITS OF REMOVAL OF EXISTING CN TRACK 3 AND TRACK 4, SEE STAGING PLANS, SHEETS 5 AND 5A.

* TO BE CONSTRUCTED AFTER PROPOSED CN TRACK 4 HAS BEEN PLACED IN SERVICE AND EXISTING CN TRACK 4 HAS BEEN REMOVED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CN RAILROAD OVER
U.S. 6 (159TH STREET)
F.A.P. RTE. 351 SECTION 3277R
TRACK CONSTRUCTION
CROSS SECTIONS
SHT. 11 OF 15
DATE 3/27/06
DRAWN BY REZ
CHECKED BY RMS



RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	3277R	COOK	66	63
STA. 506+00.00		TO STA. 508+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
		CONTRACT NO. 62206		
		SCALE		
		HORIZ. 1"=10'		
		VERT. 1"=40'		

508+00.00

508+00.00

STAGE 1
C = 129 F = 25
STAGE 2
C = 29 F = 0

507+00.00

507+00.00

STAGE 1
C = 130 F = 7
STAGE 2
C = 29 F = 0

FOR LIMITS OF REMOVAL OF EXISTING CN TRACK 3 AND TRACK 4, SEE STAGING PLANS, SHEETS 5 AND 5A.

• TO BE CONSTRUCTED AFTER PROPOSED CN TRACK 4 HAS BEEN PLACED IN SERVICE AND EXISTING CN TRACK 4 HAS BEEN REMOVED.

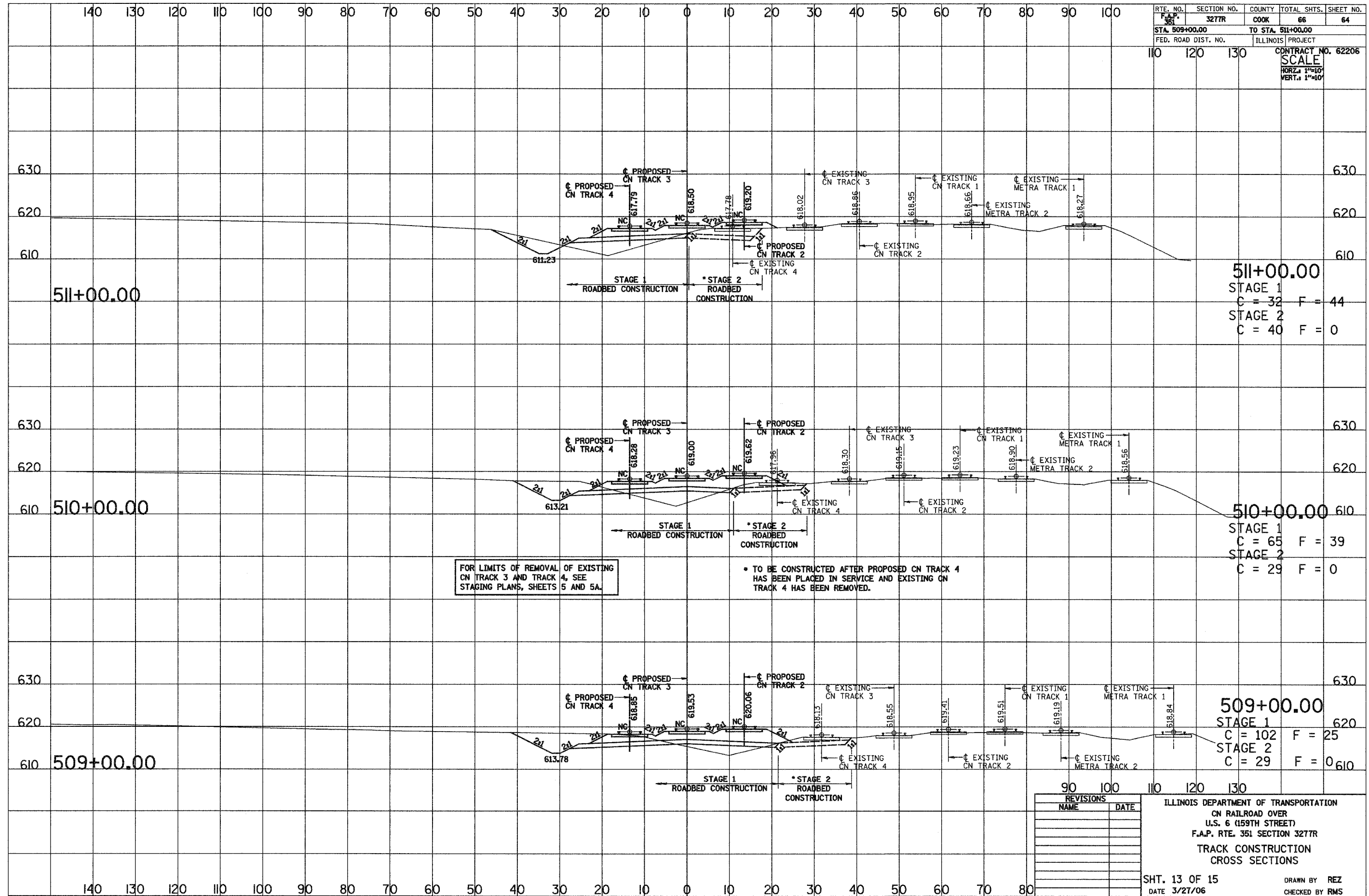
506+00.00

506+00.00

STAGE 1
C = 134 F = 1
STAGE 2
C = 31 F = 0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CN RAILROAD OVER
U.S. 6 (159TH STREET)
F.A.P. RTE. 351 SECTION 3277R
TRACK CONSTRUCTION
CROSS SECTIONS
SHT. 12 OF 15
DATE 3/27/06
DRAWN BY REZ
CHECKED BY RMS



RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	3277R	COOK	66	64
STA. 509+00.00		TO STA. 511+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
		CONTRACT NO. 62206		
SCALE				
HORIZ. 1"=10'				
VERT. 1"=10'				

511+00.00

511+00.00
 STAGE 1
 C = 32 F = 44
 STAGE 2
 C = 40 F = 0

510+00.00

510+00.00
 STAGE 1
 C = 65 F = 39
 STAGE 2
 C = 29 F = 0

FOR LIMITS OF REMOVAL OF EXISTING CN TRACK 3 AND TRACK 4, SEE STAGING PLANS, SHEETS 5 AND 5A.

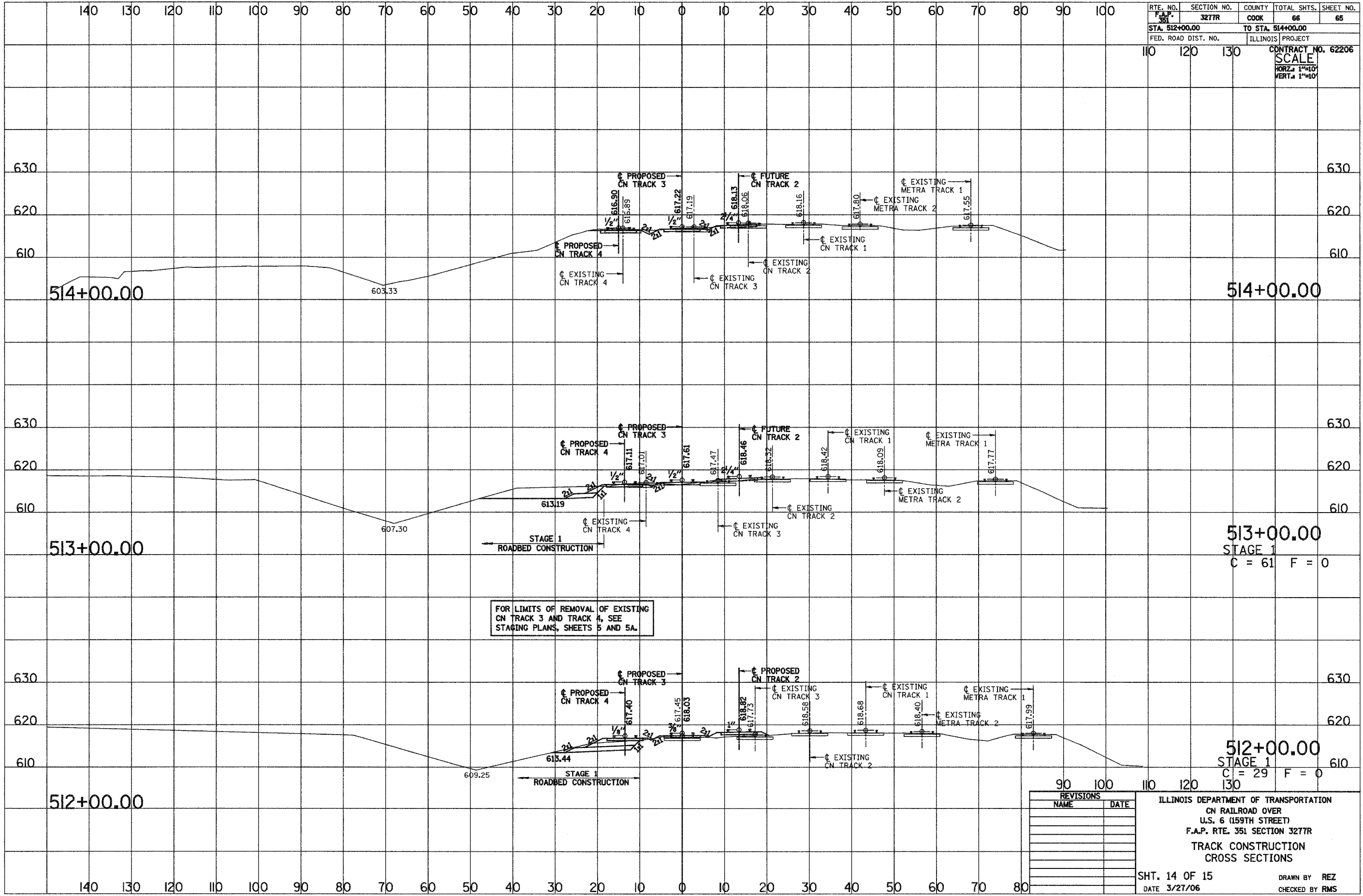
* TO BE CONSTRUCTED AFTER PROPOSED CN TRACK 4 HAS BEEN PLACED IN SERVICE AND EXISTING CN TRACK 4 HAS BEEN REMOVED.

509+00.00

509+00.00
 STAGE 1
 C = 102 F = 25
 STAGE 2
 C = 29 F = 0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R
 TRACK CONSTRUCTION
 CROSS SECTIONS
 SHT. 13 OF 15
 DATE 3/27/06
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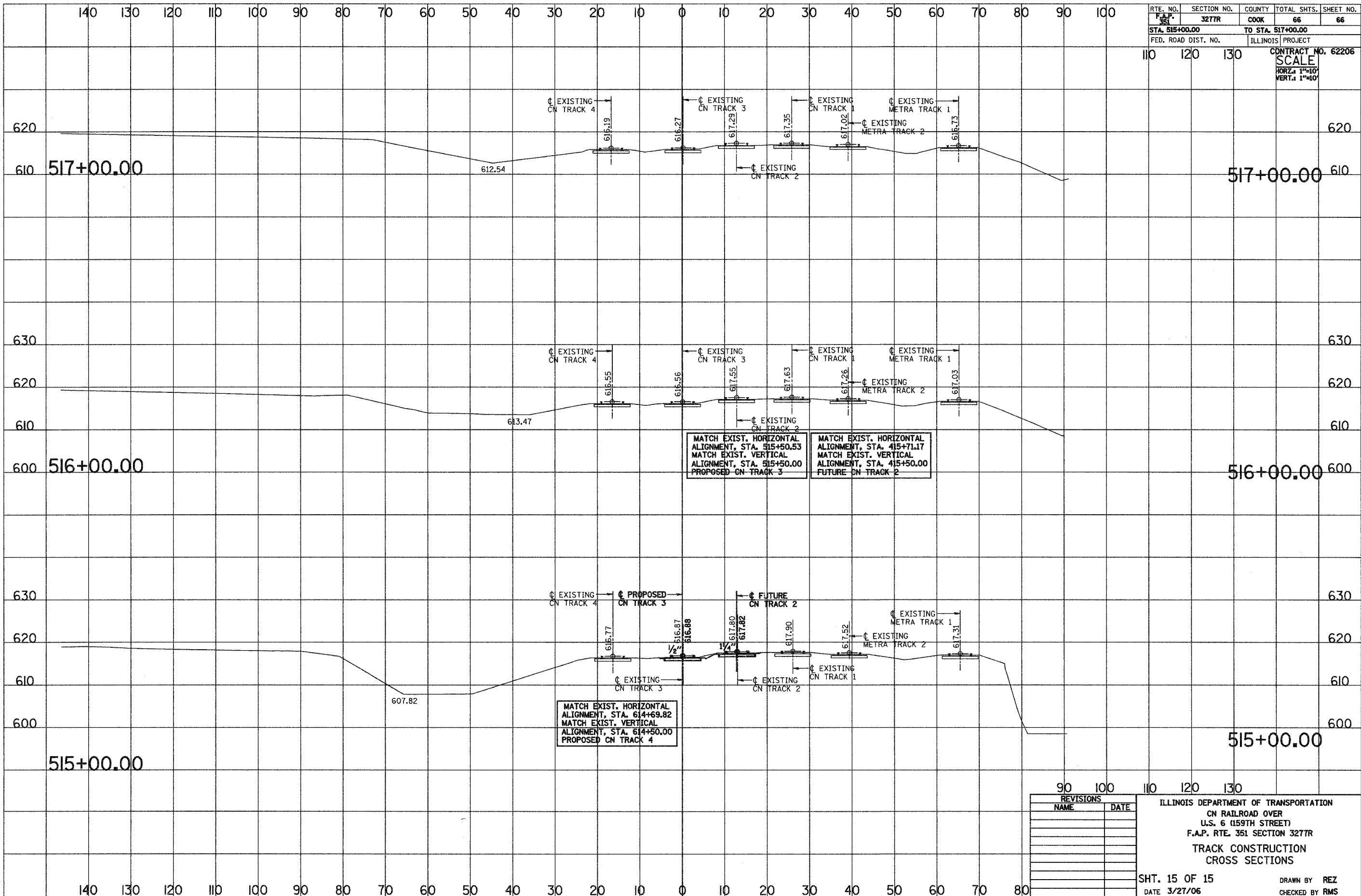
RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	3277R	COOK	66	65
STA. 512+00.00		TO STA. 514+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
				CONTRACT NO. 62206
				SCALE
				HORIZ. 1"=10'
				VERT. 1"=10'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R
 TRACK CONSTRUCTION
 CROSS SECTIONS

SHT. 14 OF 15
 DATE 3/27/06

DRAWN BY REZ
 CHECKED BY RMS



RTE. NO.	SECTION NO.	COUNTY	TOTAL SHTS.	SHEET NO.
F.A.P. 351	3277R	COOK	66	66
STA. 515+00.00		TO STA. 517+00.00		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		
		CONTRACT NO. 62206		
SCALE				
HORIZ. 1"=10'				
VERT. 1"=10'				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CN RAILROAD OVER
 U.S. 6 (159TH STREET)
 F.A.P. RTE. 351 SECTION 3277R
 TRACK CONSTRUCTION
 CROSS SECTIONS

SHT. 15 OF 15
 DATE 3/27/06

DRAWN BY REZ
 CHECKED BY RMS