

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1-9	COOK	59	1
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			D-91-235-05 62977	

INDEX OF SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DAN RYAN EXPRESSWAY:	ADT (2010)	DESIGN SPEED	POSTED SPEED
SB I-94 (DAN RYAN)	140,500	60 MPH	55 MPH
SB I-57	65,800	60 MPH	55 MPH
SB 95TH STREET EXIT RAMP	11,900	45 MPH	40 MPH
SB WENDELL AVENUE EXIT RAMP	4,800	45 MPH	40 MPH
NB I-57	58,000	60 MPH	55 MPH

MAJOR CROSS STREETS AND FRONTAGE ROADS:	ADT	POSTED SPEED
95TH STREET	23,800	30 MPH
S. LAFAYETTE STREET	6,800	30 MPH

DESCRIPTION OF PROJECT

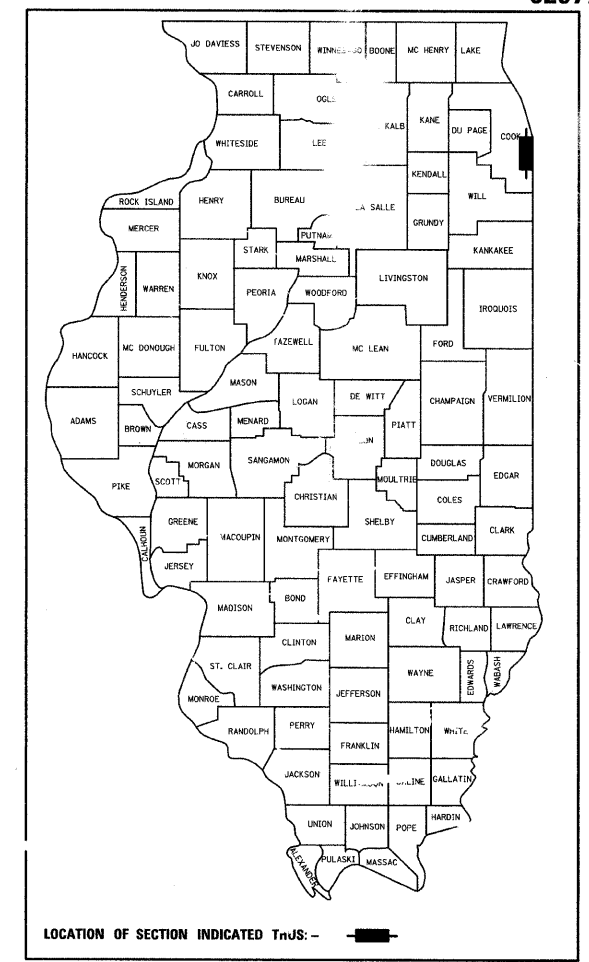
CONSTRUCTION OF FLUTED KNEE WALLS AND THREE HIGH MAST LIGHT TOWER SERVICE PADS WITH MINI RETAINING WALLS ALONG NB AND SB I-57.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 94 (DAN RYAN EXPRESSWAY)
SECTION (1516.1 I-9)
FLUTED KNEE WALL CONSTRUCTION ALONG LAFAYETTE AVENUE
FROM S. LASALLE STREET TO 95TH STREET
COOK COUNTY
C-91-235-05

~~PROJECT: EOP 091 3(115)063~~



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: JANUARY 8, 2009

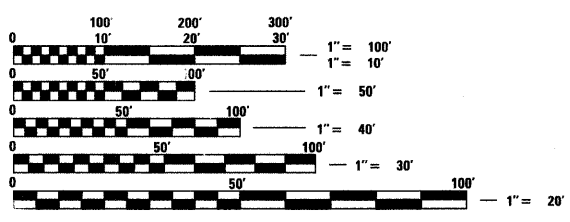
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 26, 2009
Charles G. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

June 26, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

CONTRACT 26A

PROJECT LOCATED IN THE CITY OF CHICAGO

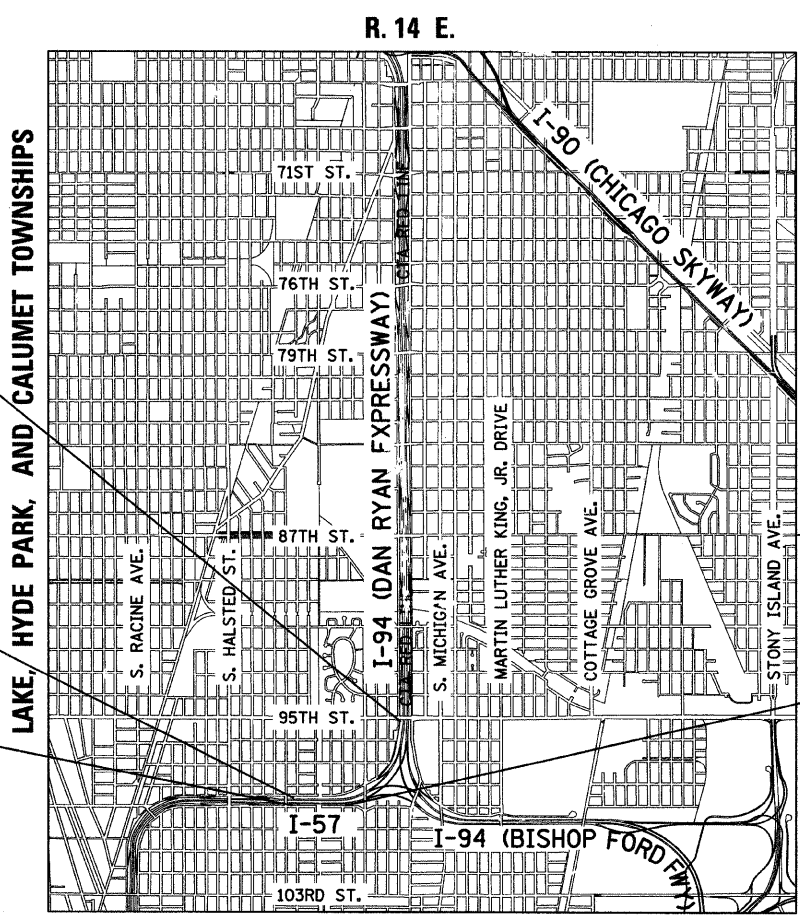


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES; REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED

DIGGER:
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

CTA CONTACT:
DAVID HEARD,
MANAGER, CONSTRUCTION
MANAGEMENT OVERSIGHT
(312) 681-3862

CONTRACT NO. 62977



F.A.I. 57 PROJECT LIMIT
STA. 154 + 09.94 (SB I-57)

F.A.I. 57 PROJECT LIMIT
STA. 117 + 38.11 (SB I-57)

F.A.I. 57 PROJECT LIMIT
STA. 218 + 95.72 (NB I-57)

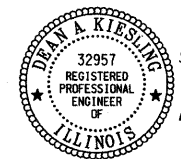
F.A.I. 57 PROJECT LIMIT
STA. 225 + 79.12 (NB I-57)

LOCATION MAP

0 1/2 MILE 1 MILE
MAP SCALE: 1" = 1/2 MILE

GROSS LENGTH OF PROJECT = 4355.2 FT. = 0.82 MI.
NET LENGTH OF PROJECT = 4355.2 FT. = 0.82 MI.

DISTR. LINE DESIGN / PROJECT MANAGER:
BRIAN KUTTAB (847) 705 - 4431



Signed *Dean A. Klesling*
Dean A. Klesling, P.E., Ill. Lic. No. 32957
Expires 11-30-2009.
Date 01-07-09

TYLIN INTERNATIONAL
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT: KNEE WALLS ALONG LAFAYETTE AVENUE
FROM S. LASALLE STREET TO 95TH STREET
COOK COUNTY/CITY OF CHICAGO

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	3
STA. 117+38.11 (SB I-57)		TO STA. 154+09.94 (SB I-57)		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62977

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	100% STATE SFTY-4A URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	78	78
20200100	EARTH EXCAVATION	CU YD	200	200
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	280	280
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	225	225
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	1368	1368
21101825	COMPOST FURNISH AND PLACE, 6"	SQ YD	1368	1368
25000210	SEEDING, CLASS 2A	ACRE	1.00	1.00
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	14	14
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	14	14
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	14	14
25001800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.25	0.25
25100630	EROSION CONTROL BLANKET	SQ YD	3453	3453
25200200	SUPPLEMENTAL WATERING	UNIT	198	198
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	53	53
28000510	INLET FILTERS	EACH	17	17
42001300	PROTECTIVE COAT	SQ YD	25	25
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	48	48
44004250	PAVED SHOULDER REMOVAL	SQ YD	288	288
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1
63200310	GUARDRAIL REMOVAL	FOOT	90	90
66410300	CHAIN LINK FENCE REMOVAL	FOOT	566	566
66410400	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	723	723
67100100	MOBILIZATION	L SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X0326143	FLUTED KNEE WALL (SPECIAL)	FOOT	30	30
X0326311	RELOCATE EXISTING SIGN PANEL (SPECIAL)	EACH	3	3

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	100% STATE SFTY-4A URBAN
X0321750	REMOVE TEMPORARY CONCRETE BARRIER, STATE OWNED	FOOT	80	80
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
X0322434	LIGHT TOWER, SERVICE PAD, SPECIAL	EACH	3	3
X0323973	SEDIMENT CONTROL, SILT FENCE	FOOT	222	222
X0324640	FLUTED KNEE WALL	FOOT	1654	1654
X0325132	SHAPING AND GRADING AT HIGH MAST LIGHT TOWER	SQ YD	64	64
X2500322	SEEDING, CLASS 5A, (MODIFIED)	ACRE	0.25	0.25
X6065740	CONCRETE MEDIAN SURFACE, 5" (MODIFIED)	SQ FT	130	130
XX104800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-V.12	FOOT	48.0	48.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

* SPECIALTY ITEM

TREE REMOVAL (6 TO 15 UNITS)

ALIGNMENT	LOCATION		TREE REMOV 6-15 (UNIT)
	STATION	OFFSET	
SB I-57	136+79	150.6' LT	6
SB I-57	137+08	147.9' LT	6
SB I-57	137+38	144.8' LT	7
SB I-57	137+58	142.3' LT	7
SB I-57	138+10	136.2' LT	8
SB I-57	138+22	133.3' LT	12
SB I-57	138+29	129.2' LT	12
SB I-57	138+40	134.2' LT	6
SB I-57	138+52	132.9' LT	6
SB I-57	149+76	128.2' LT	8
		TOTAL	78

EARTHWORK SCHEDULE

ALIGNMENT	LOCATION		EARTH EXCAVATION (CU YD)	REM. & DISP. UNSUITABLE (CU YD)
	STATION	TO STATION		
SB I-57	136+09.5	154+09.9	200.0	280.0
		TOTAL =	200.0	280.0

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REVISIONS	
NAME	DATE

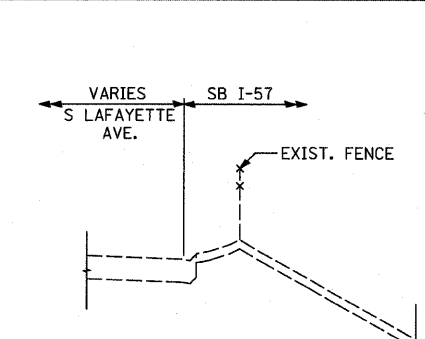
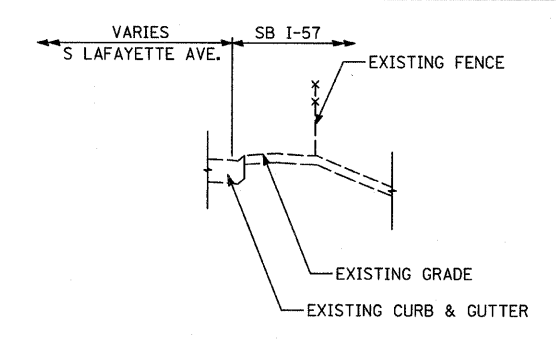
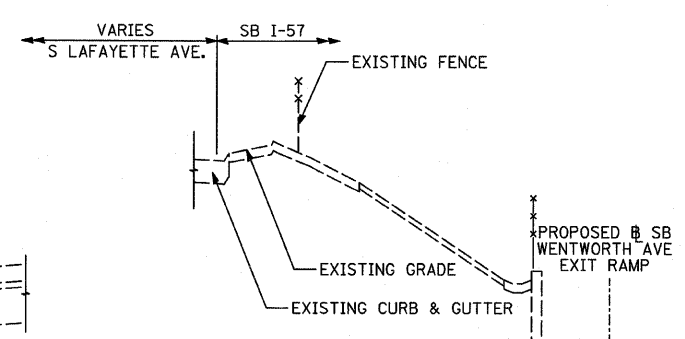
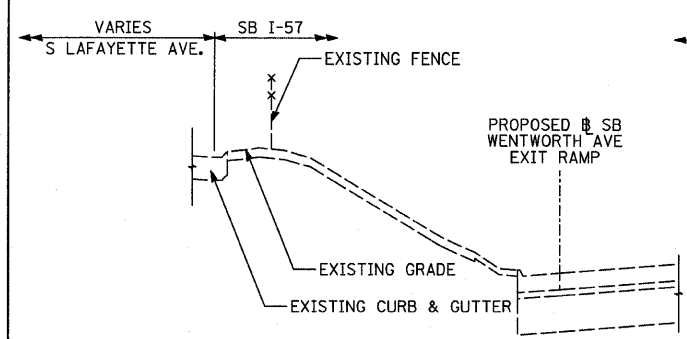
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
SUMMARY OF QUANTITIES AND
SCHEDULE OF QUANTITIES

SCALE: NONE
DATE: JANUARY 16, 2009
DRAWN BY: AMB,MAF
CHECKED BY: TGB,MI

1/15/2009 11:39:30 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	4
STA. 117+38.11 (SB I-57) TO STA. 218+95.72 (NB I-57)		STA. 154+09.94 (SB I-57) TO STA. 225+173.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62977

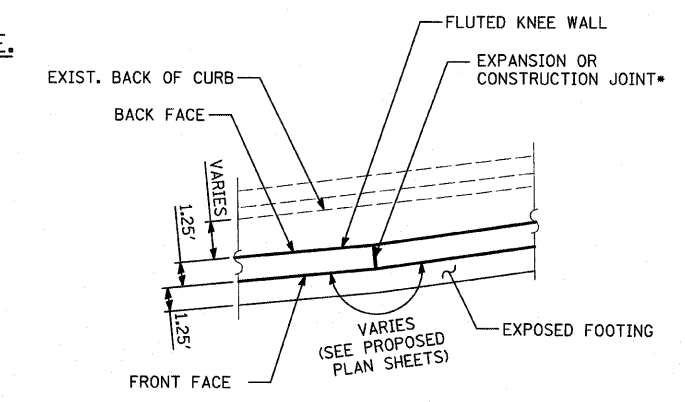
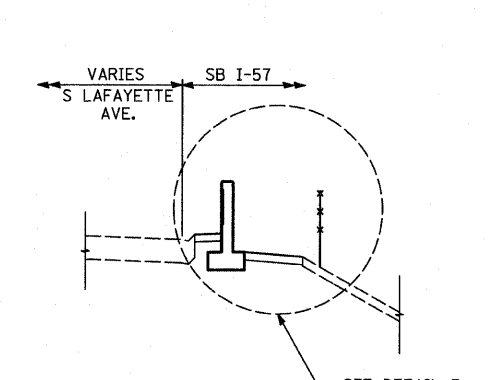
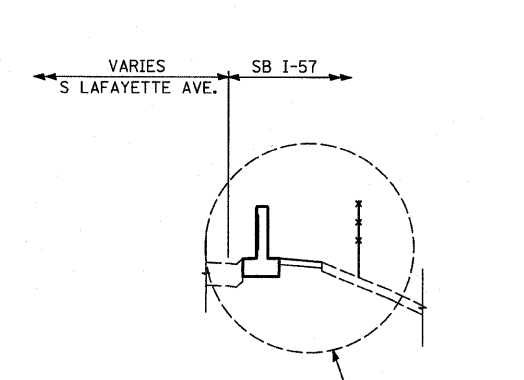
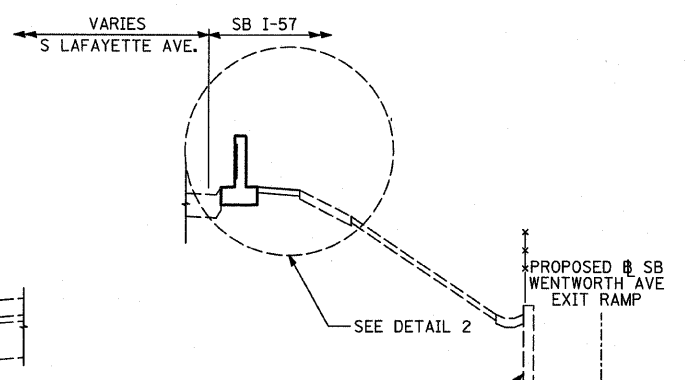
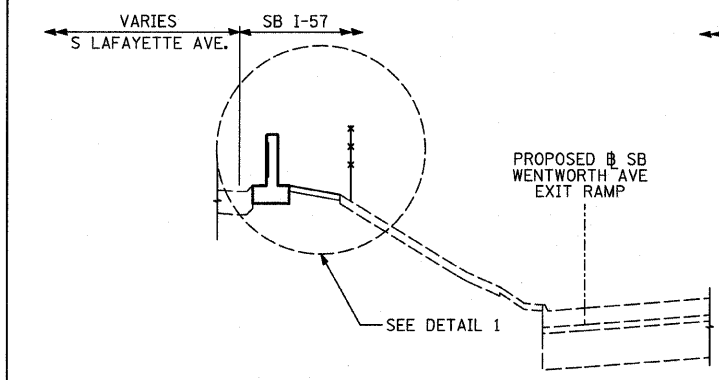


EXISTING SB LAFAYETTE AVE.

EXISTING SB LAFAYETTE AVE.

EXISTING SB LAFAYETTE AVE.

EXISTING SB LAFAYETTE AVE.



TYPICAL SECTION AT FLUTED KNEE WALL BEND

•1/2" PJF AT EXPANSION JOINTS

PROPOSED SB LAFAYETTE AVE.

STA. 136+09.5 TO STA. 139+64.3

PROPOSED SB LAFAYETTE AVE.

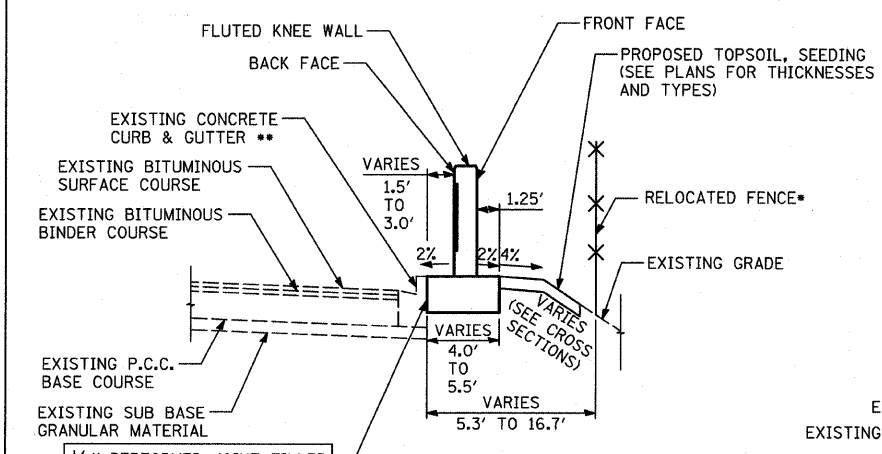
STA. 139+64.3 TO STA. 146+27.4

PROPOSED SB LAFAYETTE AVE.

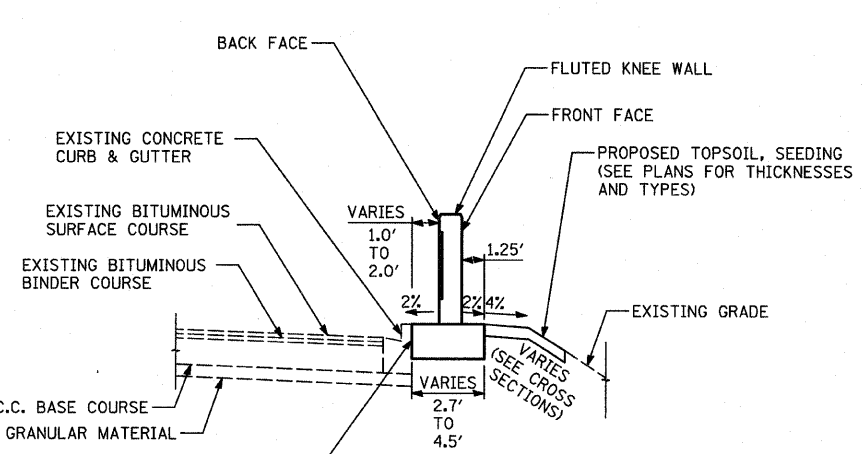
STA. 146+27.4 TO STA. 153+65.6

PROPOSED SB LAFAYETTE AVE.

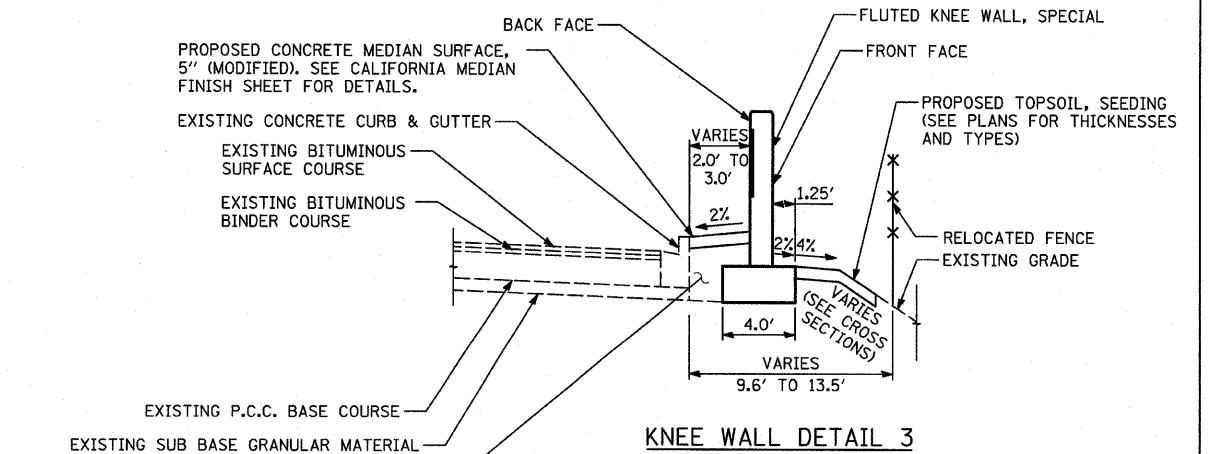
STA. 153+65.6 TO STA. 154+00.9



KNEE WALL DETAIL 1



KNEE WALL DETAIL 2



KNEE WALL DETAIL 3

CA-6 AGGREGATE FILL, COST INCLUDED WITH "CONCRETE MEDIAN SURFACE, 5" (MODIFIED)"

* STA. 136+09.5 to STA. 139+64.3
 STA. 146+27.4 to STA. 146+59.2
 STA. 148+00.0 to STA. 149+00.3
 STA. 151+49.9 to STA. 151+94.5
 STA. 153+49.6 to STA. 153+65.6

** PROPOSED CONCRETE CURB AND GUTTER
 STA. 151+49.9 TO STA. 151+94.5

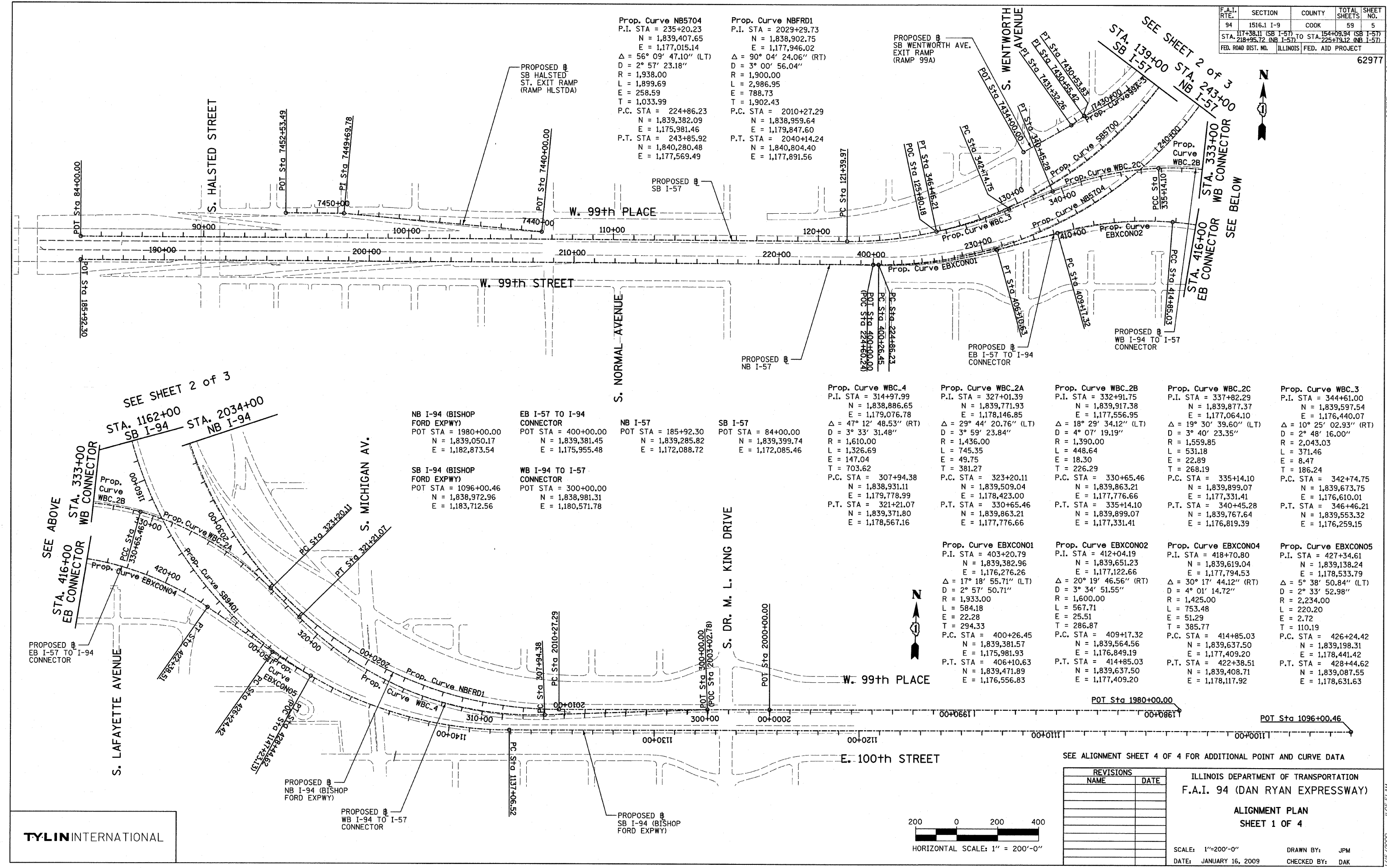
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 EXISTING AND PROPOSED TYPICAL SECTIONS
 SB LAFAYETTE AVE.
 SCALE: NONE
 DATE: JANUARY 16, 2009
 DRAWN BY: AMB, MAF
 CHECKED BY: TGB, MI

TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	5
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977



Prop. Curve NB5704
 P.I. STA = 235+20.23
 N = 1,839,407.65
 E = 1,177,015.14
 $\Delta = 56^\circ 09' 47.10''$ (LT)
 D = $2^\circ 57' 23.18''$
 R = 1,938.00
 L = 1,899.69
 E = 258.59
 T = 1,033.99
 P.C. STA = 224+86.23
 N = 1,839,382.09
 E = 1,175,981.46
 P.T. STA = 243+85.92
 N = 1,840,280.48
 E = 1,177,569.49

Prop. Curve NBFDR1
 P.I. STA = 2029+29.73
 N = 1,838,902.75
 E = 1,177,946.02
 $\Delta = 90^\circ 04' 24.06''$ (RT)
 D = $3^\circ 00' 56.04''$
 R = 1,900.00
 L = 2,986.95
 E = 788.73
 T = 1,902.43
 P.C. STA = 2010+27.29
 N = 1,838,959.64
 E = 1,179,847.60
 P.T. STA = 2040+14.24
 N = 1,840,804.40
 E = 1,177,891.56

NB I-94 (BISHOP FORD EXPWY)
 POT STA = 1980+00.00
 N = 1,839,050.17
 E = 1,182,873.54

EB I-57 TO I-94 CONNECTOR
 POT STA = 400+00.00
 N = 1,839,381.45
 E = 1,175,955.48

NB I-57
 POT STA = 185+92.30
 N = 1,839,285.82
 E = 1,172,088.72

SB I-57
 POT STA = 84+00.00
 N = 1,839,399.74
 E = 1,172,085.46

SB I-94 (BISHOP FORD EXPWY)
 POT STA = 1096+00.46
 N = 1,838,972.96
 E = 1,183,712.56

WB I-94 TO I-57 CONNECTOR
 POT STA = 300+00.00
 N = 1,838,981.31
 E = 1,180,571.78

Prop. Curve WBC.4
 P.I. STA = 314+97.99
 N = 1,838,886.65
 E = 1,179,076.78
 $\Delta = 47^\circ 12' 48.53''$ (RT)
 D = $3^\circ 33' 31.48''$
 R = 1,610.00
 L = 1,326.69
 E = 147.04
 T = 703.62
 P.C. STA = 307+94.38
 N = 1,838,931.11
 E = 1,179,778.99
 P.T. STA = 321+21.07
 N = 1,839,371.80
 E = 1,178,567.16

Prop. Curve WBC.2A
 P.I. STA = 327+01.39
 N = 1,839,771.93
 E = 1,178,146.85
 $\Delta = 29^\circ 44' 20.76''$ (LT)
 D = $3^\circ 59' 23.84''$
 R = 1,436.00
 L = 745.35
 E = 49.75
 T = 381.27
 P.C. STA = 323+20.11
 N = 1,839,509.04
 E = 1,178,423.00
 P.T. STA = 330+65.46
 N = 1,839,863.21
 E = 1,177,776.66

Prop. Curve WBC.2B
 P.I. STA = 332+91.75
 N = 1,839,917.38
 E = 1,177,556.95
 $\Delta = 18^\circ 29' 34.12''$ (LT)
 D = $4^\circ 07' 19.19''$
 R = 1,390.00
 L = 448.64
 E = 18.30
 T = 226.29
 P.C. STA = 330+65.46
 N = 1,839,863.21
 E = 1,177,776.66
 P.T. STA = 335+14.10
 N = 1,839,899.07
 E = 1,177,331.41

Prop. Curve WBC.2C
 P.I. STA = 337+82.29
 N = 1,839,877.37
 E = 1,177,064.10
 $\Delta = 19^\circ 30' 39.60''$ (LT)
 D = $3^\circ 40' 23.35''$
 R = 1,559.85
 L = 531.18
 E = 22.89
 T = 268.19
 P.C. STA = 335+14.10
 N = 1,839,899.07
 E = 1,177,331.41
 P.T. STA = 340+45.28
 N = 1,839,767.64
 E = 1,176,819.39

Prop. Curve WBC.3
 P.I. STA = 344+61.00
 N = 1,839,597.54
 E = 1,176,440.07
 $\Delta = 10^\circ 25' 02.93''$ (RT)
 D = $2^\circ 48' 16.00''$
 R = 2,043.03
 L = 371.46
 E = 8.47
 T = 186.24
 P.C. STA = 342+74.75
 N = 1,839,673.75
 E = 1,176,610.01
 P.T. STA = 346+46.21
 N = 1,839,553.32
 E = 1,176,259.15

Prop. Curve EBXC0N01
 P.I. STA = 403+20.79
 N = 1,839,651.23
 E = 1,176,276.26
 $\Delta = 17^\circ 18' 55.71''$ (LT)
 D = $2^\circ 57' 50.71''$
 R = 1,933.00
 L = 584.18
 E = 22.28
 T = 294.33
 P.C. STA = 400+26.45
 N = 1,839,381.57
 E = 1,175,981.93
 P.T. STA = 406+10.63
 N = 1,839,471.89
 E = 1,176,556.83

Prop. Curve EBXC0N02
 P.I. STA = 412+04.19
 N = 1,839,619.04
 E = 1,177,122.66
 $\Delta = 20^\circ 19' 46.56''$ (RT)
 D = $3^\circ 34' 51.55''$
 R = 1,600.00
 L = 753.48
 E = 25.51
 T = 286.87
 P.C. STA = 409+17.32
 N = 1,839,564.56
 E = 1,176,849.19
 P.T. STA = 414+85.03
 N = 1,839,637.50
 E = 1,177,409.20

Prop. Curve EBXC0N04
 P.I. STA = 418+70.80
 N = 1,839,619.04
 E = 1,177,794.53
 $\Delta = 30^\circ 17' 44.12''$ (RT)
 D = $4^\circ 01' 14.72''$
 R = 1,425.00
 L = 753.48
 E = 51.29
 T = 385.77
 P.C. STA = 414+85.03
 N = 1,839,637.50
 E = 1,177,409.20
 P.T. STA = 422+38.51
 N = 1,839,408.71
 E = 1,178,117.92

Prop. Curve EBXC0N05
 P.I. STA = 427+34.61
 N = 1,839,138.24
 E = 1,178,533.79
 $\Delta = 5^\circ 38' 50.84''$ (LT)
 D = $2^\circ 33' 52.98''$
 R = 2,234.00
 L = 220.20
 E = 2.72
 T = 110.19
 P.C. STA = 426+24.42
 N = 1,839,198.31
 E = 1,178,441.42
 P.T. STA = 428+44.62
 N = 1,839,087.55
 E = 1,178,631.63

SEE SHEET 2 of 3
 STA. 1162+00 SB I-94
 STA. 2034+00 NB I-94

SEE ABOVE
 STA. 333+00 WB CONNECTOR
 STA. 416+00 EB CONNECTOR

SEE SHEET 2 of 3
 STA. 139+00 SB I-57
 STA. 243+00 NB I-57
 STA. 333+00 WB CONNECTOR
 STA. 416+00 EB CONNECTOR
 SEE BELOW

SEE ALIGNMENT SHEET 4 OF 4 FOR ADDITIONAL POINT AND CURVE DATA

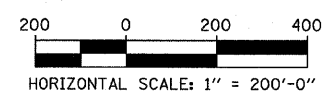
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)

ALIGNMENT PLAN
 SHEET 1 OF 4

SCALE: 1"=200'-0"
 DATE: JANUARY 16, 2009

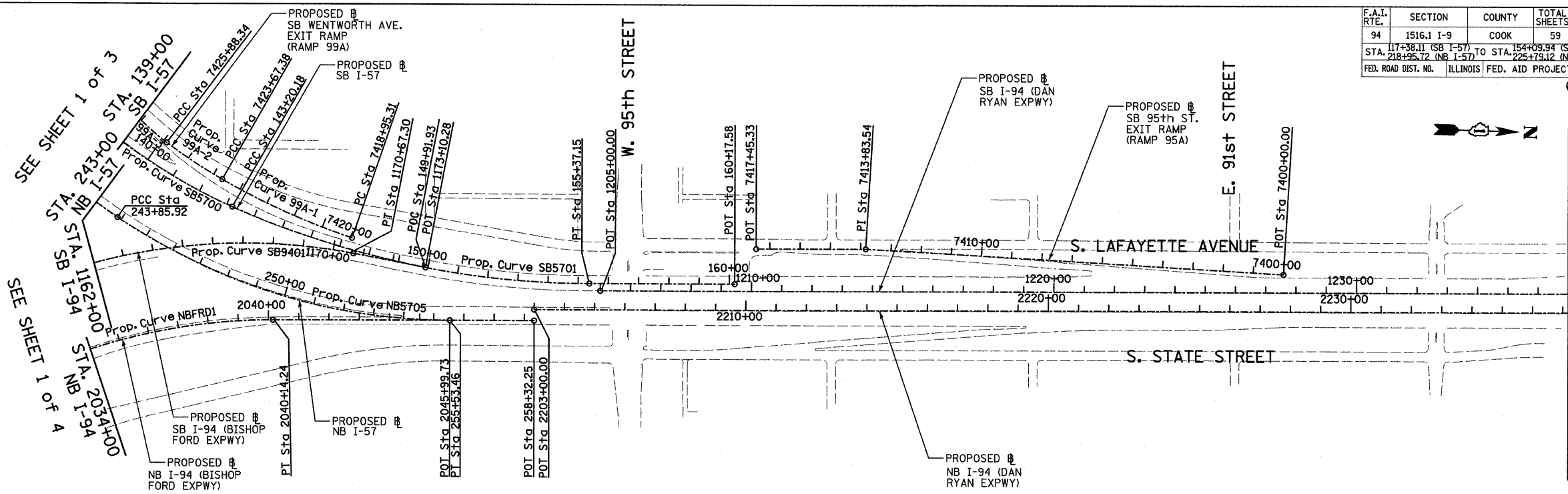
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 CHECKED BY: DAK



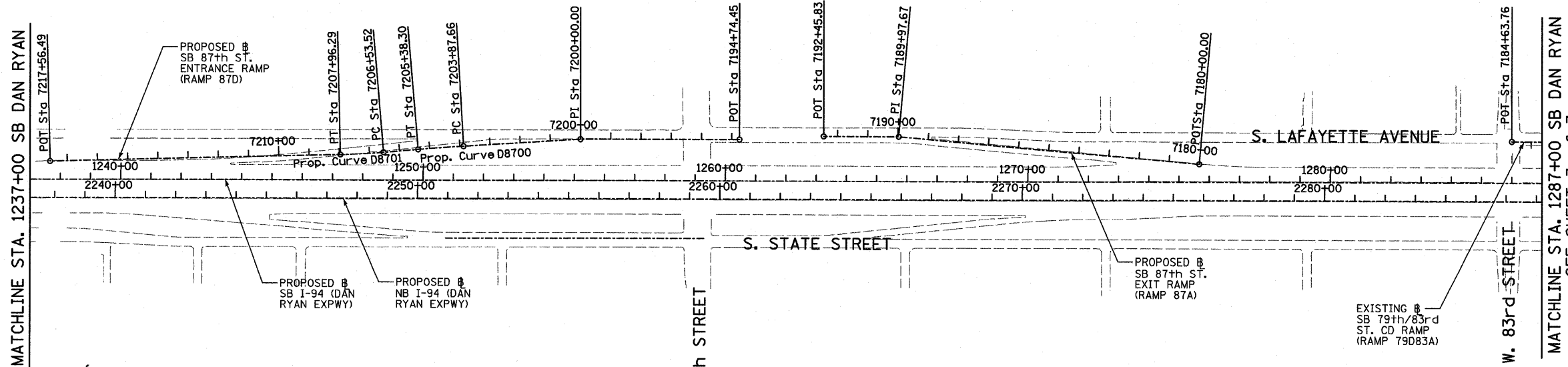
TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	6
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57) STA. 218+55.72 (NB I-57) TO STA. 225+79.12 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

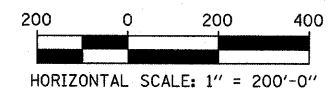
62977



Prop. Curve SB5700 P.I. STA = 133+70.06 N = 1,839,521.70 E = 1,177,054.03 $\Delta = 66^\circ 11' 55.15''$ (LT) D = $3^\circ 02' 10.83''$ R = 1,887.00 L = 2,180.21 E = 365.53 T = 1,230.09 P.C. STA = 121+39.97 N = 1,839,491.52 E = 1,175,824.31 P.T. STA = 143+20.18 N = 1,840,659.02 E = 1,177,522.68	Prop. Curve SB5701 P.I. STA = 149+37.75 N = 1,841,230.00 E = 1,177,757.97 $\Delta = 24^\circ 02' 07.49''$ (LT) D = $1^\circ 58' 30.13''$ R = 2,901.00 L = 1,216.96 E = 65.01 T = 617.56 P.C. STA = 143+20.18 N = 1,840,659.02 E = 1,177,522.68 P.T. STA = 155+37.15 N = 1,841,847.31 E = 1,177,740.29	Prop. Curve NB5705 P.I. STA = 249+87.51 N = 1,840,788.31 E = 1,177,892.02 $\Delta = 34^\circ 03' 37.98''$ (LT) D = $2^\circ 55' 02.28''$ R = 1,964.00 L = 1,167.54 E = 90.07 T = 601.59 P.C. STA = 243+85.92 N = 1,840,280.48 E = 1,177,569.49 P.T. STA = 255+53.46 N = 1,841,389.65 E = 1,177,874.80	Prop. Curve SB9401 P.I. STA = 1160+15.97 N = 1,838,783.95 E = 1,177,299.83 $\Delta = 100^\circ 48' 58.07''$ (RT) D = $2^\circ 59' 59.20''$ R = 1,910.00 L = 3,360.79 E = 1,086.95 T = 2,309.46 P.C. STA = 1137+06.52 N = 1,838,851.99 E = 1,179,608.28 P.T. STA = 1170+67.30 N = 1,841,064.16 E = 1,177,666.20	SB I-94 (DAN RYAN EXPWY) POT STA = 1205+00.00 N = 1,841,884.04 E = 1,177,763.25	SB I-57 POT STA = 160+17.58 N = 1,842,327.55 E = 1,177,726.54	SB I-94 (BISHOP FORD EXPWY) POT STA = 1173+10.28 N = 1,841,304.06 E = 1,177,704.74	NB I-57 POT STA = 258+32.25 N = 1,841,668.33 E = 1,177,866.82	NB I-94 (BISHOP FORD EXPWY) POT STA = 2045+99.73 N = 1,841,389.65 E = 1,177,874.80	NB I-94 (DAN RYAN EXPWY) POT STA = 2203+00.00 N = 1,841,667.31 E = 1,177,830.83
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TYLIN INTERNATIONAL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
ALIGNMENT PLAN
 SHEET 2 OF 4
 SCALE: 1"=200'
 DATE: JANUARY 16, 2009
 DRAWN BY: JPM
 CHECKED BY: DAK

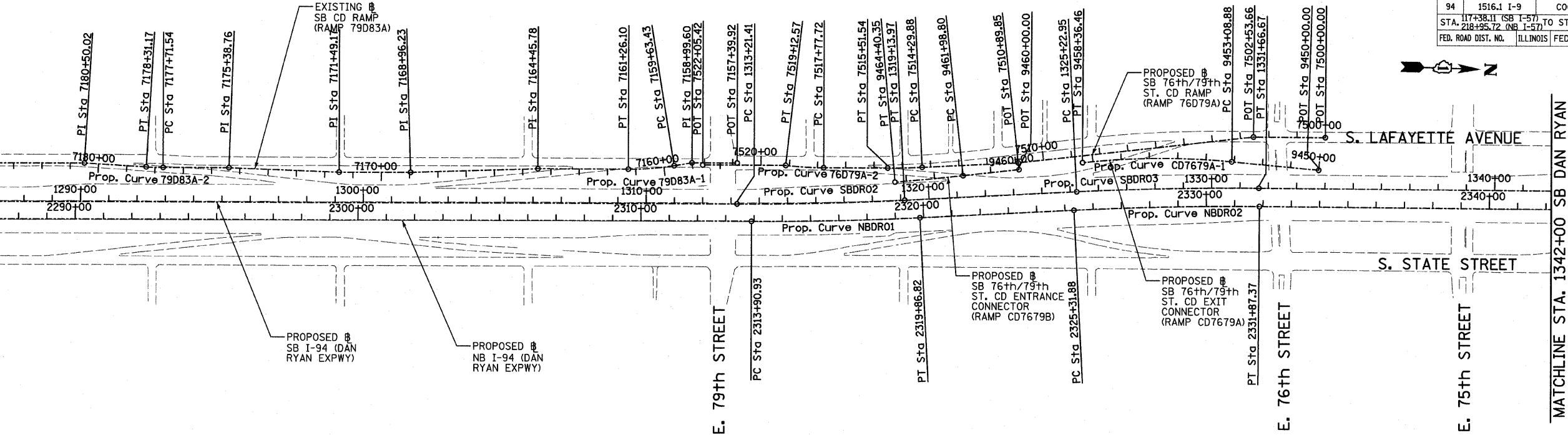
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F.A.I. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	7
117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 210+35.72 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977

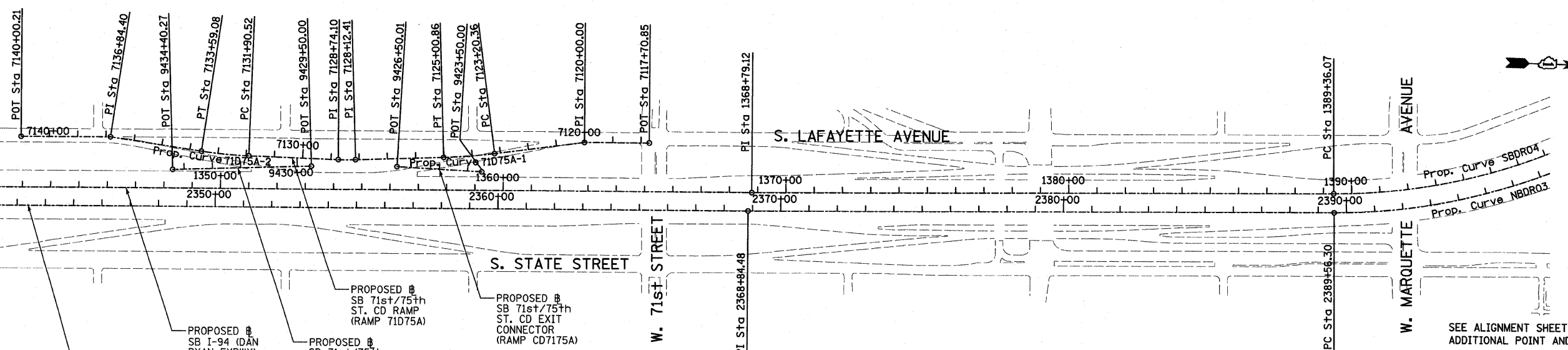
SEE SHEET 2 of 3

MATCHLINE STA. 1287+00 SB DAN RYAN

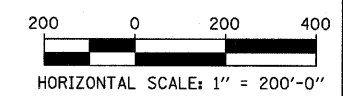


Prop. Curve NBDRO1 P.I. STA = 2316+88.94 N = 1,853,051.58 E = 1,177,504.84 $\Delta = 2^\circ 58' 38.60''$ (LT) D = $0^\circ 29' 58.77''$ R = 11,467.00 L = 595.89 E = 3.87 T = 298.01 P.C. STA = 2313+90.93 N = 1,852,753.69 E = 1,177,513.37 P.T. STA = 2319+86.82 N = 1,853,348.62 E = 1,177,480.85	Prop. Curve NBDRO2 P.I. STA = 2328+59.71 N = 1,854,218.69 E = 1,177,410.58 $\Delta = 3^\circ 16' 48.34''$ (RT) D = $0^\circ 30' 01.44''$ R = 11,450.00 L = 655.49 E = 4.69 T = 327.84 P.C. STA = 2325+31.88 N = 1,853,891.91 E = 1,177,436.97 P.T. STA = 2331+87.37 N = 1,854,546.43 E = 1,177,402.92	Prop. Curve NBDRO3 P.I. STA = 2398+53.58 N = 1,861,170.38 E = 1,177,231.19 $\Delta = 44^\circ 36' 17.12''$ (LT) D = $2^\circ 44' 29.13''$ R = 2,090.00 L = 1,627.06 E = 168.99 T = 857.27 P.C. STA = 2389+56.30 N = 1,860,313.48 E = 1,177,256.19 P.T. STA = 2405+83.37 N = 1,861,762.92 E = 1,176,611.65	Prop. Curve SBDRO2 P.I. STA = 1316+17.76 N = 1,852,997.25 E = 1,177,445.02 $\Delta = 2^\circ 58' 38.60''$ (LT) D = $0^\circ 30' 08.86''$ R = 11,403.00 L = 592.56 E = 3.85 T = 296.35 P.C. STA = 1313+21.41 N = 1,852,701.02 E = 1,177,453.50 P.T. STA = 1319+13.97 N = 1,853,292.63 E = 1,177,421.16	Prop. Curve SBDRO3 P.I. STA = 1328+44.90 N = 1,854,220.54 E = 1,177,346.22 $\Delta = 3^\circ 16' 11.04''$ (RT) D = $0^\circ 30' 28.59''$ R = 11,280.00 L = 643.72 E = 4.59 T = 321.95 P.C. STA = 1325+22.95 N = 1,853,899.63 E = 1,177,372.14 P.T. STA = 1331+66.67 N = 1,854,542.40 E = 1,177,338.64	Prop. Curve SBDRO4 P.I. STA = 1397+75.78 N = 1,861,149.16 E = 1,177,163.97 $\Delta = 44^\circ 32' 58.56''$ (LT) D = $2^\circ 47' 41.70''$ R = 2,050.00 L = 1,593.95 E = 165.31 T = 839.71 P.C. STA = 1389+36.07 N = 1,860,309.83 E = 1,177,189.29 P.T. STA = 1405+30.02 N = 1,861,729.54 E = 1,176,557.11	NB I-94 (DAN RYAN EXPRESSWAY) P.I. STA = 2368+84.48 N = 1,858,242.53 E = 1,177,316.62 SB I-94 (DAN RYAN EXPRESSWAY) P.I. STA = 1368+79.12 N = 1,858,253.81 E = 1,177,251.32
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MATCHLINE STA. 1342+00 SB DAN RYAN



TYLIN INTERNATIONAL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 ALIGNMENT PLAN
 SHEET 3 OF 4
 SCALE: 1"=200'
 DATE: JANUARY 16, 2009
 DRAWN BY: JPM
 CHECKED BY: DAK

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	8
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)		225+79.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62977

SB HALSTED ST.
EXIT RAMP
(RAMP HLSTDA)
POT STA = 7440+00.00
N = 1,839,490.94
E = 1,174,333.70
P.I. STA = 7449+69.78
N = 1,839,551.73
E = 1,173,365.83
POT STA = 7452+53.49
N = 1,839,544.76
E = 1,173,082.20

SB WENTWORTH AVE.
EXIT RAMP
(RAMP 99A)
POT STA = 7430+55.42
N = 1,840,141.17
E = 1,176,961.02
POT STA = 7431+32.26
N = 1,840,094.48
E = 1,176,899.99
POT STA = 7434+00.00
N = 1,839,955.89
E = 1,176,670.92

SB 95th ST. EXIT RAMP
(RAMP 95A)
POT STA = 7400+00.00
N = 1,844,139.73
E = 1,177,638.63
P.I. STA = 7413+83.54
N = 1,842,756.77
E = 1,177,598.60
POT STA = 7417+45.33
N = 1,842,395.13
E = 1,177,608.95

SB 87th ST. ENTRANCE RAMP
(RAMP 87D)
POT STA = 7194+74.45
N = 1,847,424.06
E = 1,177,468.58
P.I. STA = 7200+00.00
N = 1,846,898.74
E = 1,177,484.09
POT STA = 7217+56.49
N = 1,845,147.17
E = 1,177,609.78

SB 87th ST. EXIT RAMP
(RAMP 87A)
POT STA = 7180+00.00
N = 1,848,946.30
E = 1,177,501.00
P.I. STA = 7189+97.67
N = 1,847,950.35
E = 1,177,442.53
POT STA = 7192+45.83
N = 1,847,702.29
E = 1,177,449.63

Prop. Curve 99A-1
P.I. STA = 7421+32.05
N = 1,840,832.05
E = 1,177,544.75
 $\Delta = 10^\circ 49' 08.53''$ (RT)
D = 2° 17' 30.59"
R = 2,500.00
L = 472.07
E = 11.18
T = 236.74
P.C. STA = 7418+95.31
N = 1,841,058.12
E = 1,177,615.03
P.T. STA = 7423+67.38
N = 1,840,623.20
E = 1,177,433.29

Prop. Curve 99A-2
P.I. STA = 7424+78.02
N = 1,840,525.59
E = 1,177,381.20
 $\Delta = 7^\circ 26' 49.68''$ (RT)
D = 3° 22' 13.22"
R = 1,700.00
L = 220.96
E = 3.60
T = 110.64
P.C. STA = 7423+67.38
N = 1,840,623.20
E = 1,177,433.29
P.T. STA = 7425+88.34
N = 1,840,435.56
E = 1,177,316.90

Prop. Curve 99A-3
P.I. STA = 7428+26.42
N = 1,840,241.82
E = 1,177,178.53
 $\Delta = 29^\circ 38' 02.27''$ (RT)
D = 6° 21' 58.31"
R = 900.00
L = 465.49
E = 30.96
T = 238.08
P.C. STA = 7425+88.34
N = 1,840,435.56
E = 1,177,316.90
P.T. STA = 7430+53.83
N = 1,840,141.84
E = 1,176,962.46

Prop. Curve D8700
P.I. STA = 7204+62.99
N = 1,846,437.54
E = 1,177,524.69
 $\Delta = 1^\circ 30' 03.72''$ (LT)
D = 0° 59' 47.21"
R = 5,750.00
L = 150.64
E = 0.49
T = 75.32
P.C. STA = 7203+87.66
N = 1,846,512.58
E = 1,177,518.09
P.T. STA = 7205+38.30
N = 1,846,362.71
E = 1,177,533.26

Prop. Curve D8701
P.I. STA = 7207+24.93
N = 1,846,177.29
E = 1,177,554.49
 $\Delta = 3^\circ 27' 36.43''$ (RT)
D = 2° 25' 25.25"
R = 2,364.00
L = 142.76
E = 1.08
T = 71.40
P.C. STA = 7206+53.52
N = 1,846,248.23
E = 1,177,546.37
P.T. STA = 7207+96.29
N = 1,846,105.99
E = 1,177,558.32

Prop. Curve 79D83A-1
P.I. STA = 7160+44.94
N = 1,852,394.55
E = 1,177,340.32
 $\Delta = 9^\circ 19' 12.90''$ (RT)
D = 5° 43' 46.48"
R = 1,000.00
L = 162.67
E = 3.32
T = 81.51
P.C. STA = 7159+63.43
N = 1,852,474.58
E = 1,177,324.82
P.T. STA = 7161+26.10
N = 1,852,313.07
E = 1,177,342.65

Prop. Curve 79D83A-2
P.I. STA = 7178+01.36
N = 1,850,638.94
E = 1,177,390.59
 $\Delta = 3^\circ 24' 57.69''$ (RT)
D = 5° 43' 46.48"
R = 1,000.00
L = 59.62
E = 0.44
T = 29.82
P.C. STA = 7177+71.54
N = 1,850,668.74
E = 1,177,389.73
P.T. STA = 7178+31.17
N = 1,850,609.13
E = 1,177,389.66

SB C-D RAMP
(RAMP 79D83A)
POT STA = 7157+39.92
N = 1,852,696.86
E = 1,177,308.11
P.I. STA = 7158+99.60
N = 1,852,537.24
E = 1,177,312.68
P.I. STA = 7164+45.78
N = 1,851,993.52
E = 1,177,351.80
P.I. STA = 7168+96.23
N = 1,851,543.85
E = 1,177,378.34
P.I. STA = 7171+49.17
N = 1,851,291.02
E = 1,177,385.58
P.I. STA = 7175+38.76
N = 1,850,901.43
E = 1,177,383.07
P.I. STA = 7180+50.02
N = 1,850,390.38
E = 1,177,382.88
POT STA = 7184+63.76
N = 1,849,976.81
E = 1,177,394.72

SB 76th/79th ST.
CD RAMP
(RAMP 76D79A)
POT STA = 7500+00.00
N = 1,854,771.42
E = 1,177,153.21
P.I. STA = 7502+53.66
N = 1,854,517.84
E = 1,177,159.17
P.I. STA = 7510+89.85
N = 1,853,689.73
E = 1,177,275.17
POT STA = 7522+05.42
N = 1,852,575.71
E = 1,177,319.03

Prop. Curve 76D79A-1
P.I. STA = 7514+90.72
N = 1,853,290.06
E = 1,177,306.25
 $\Delta = 2^\circ 48' 22.72''$ (RT)
D = 2° 18' 23.74"
R = 2,484.00
L = 121.66
E = 0.75
T = 60.84
P.C. STA = 7514+29.88
N = 1,853,350.72
E = 1,177,301.54
P.T. STA = 7515+51.54
N = 1,853,229.24
E = 1,177,307.99

Prop. Curve 76D79A-2
P.I. STA = 7518+45.22
N = 1,852,935.69
E = 1,177,316.40
 $\Delta = 6^\circ 31' 33.29''$ (RT)
D = 4° 50' 21.01"
R = 1,184.00
L = 134.86
E = 1.92
T = 67.50
P.C. STA = 7517+77.72
N = 1,853,003.16
E = 1,177,314.47
P.T. STA = 7519+12.57
N = 1,852,868.44
E = 1,177,310.65

SB 76th/79th ST.
CD EXIT CONNECTOR
(CD7679A)
POT STA = 9450+00.00
N = 1,854,751.70
E = 1,177,267.37
Prop. Curve CD7679A-1
P.I. STA = 9455+73.58
N = 1,854,179.28
E = 1,177,230.83
 $\Delta = 11^\circ 37' 34.33''$ (LT)
D = 2° 12' 13.26"
R = 2,600.00
L = 527.58
E = 13.44
T = 264.70
P.C. STA = 9453+08.88
N = 1,854,443.44
E = 1,177,247.69
P.T. STA = 9458+36.46
N = 1,853,917.14
E = 1,177,267.55

SB 76th/79th ST.
CD ENTRANCE CONNECTOR
(CD7679B)
POT STA = 9460+00.00
N = 1,853,693.06
E = 1,177,298.94
Prop. Curve CD7679B-1
P.I. STA = 9463+19.58
N = 1,853,376.57
E = 1,177,343.27
 $\Delta = 1^\circ 13' 13.54''$ (RT)
D = 0° 30' 18.91"
R = 11,340.00
L = 241.55
E = 0.64
T = 120.78
P.C. STA = 9461+98.80
N = 1,853,496.18
E = 1,177,326.52
P.T. STA = 9464+40.35
N = 1,853,256.63
E = 1,177,357.48

SB 71st/75th ST.
CD RAMP
(RAMP 71D75A)
POT STA = 7117+70.85
N = 1,857,886.40
E = 1,177,086.26
P.I. STA = 7120+00.00
N = 1,857,657.31
E = 1,177,091.65
P.I. STA = 7128+12.41
N = 1,856,850.29
E = 1,177,177.64
P.I. STA = 7128+74.10
N = 1,856,788.62
E = 1,177,179.10
P.I. STA = 7136+84.40
N = 1,855,981.27
E = 1,177,124.75
POT STA = 7140+00.21
N = 1,855,665.56
E = 1,177,132.18

Prop. Curve 71D75A-1
P.I. STA = 7124+10.68
N = 1,857,251.52
E = 1,177,154.81
 $\Delta = 5^\circ 35' 23.99''$ (RT)
D = 3° 05' 49.45"
R = 1,850.00
L = 180.49
E = 2.20
T = 90.32
P.C. STA = 7123+20.36
N = 1,857,340.76
E = 1,177,140.92
P.T. STA = 7125+00.86
N = 1,857,161.34
E = 1,177,159.94

Prop. Curve 71D75A-2
P.I. STA = 7132+74.89
N = 1,856,387.85
E = 1,177,175.17
 $\Delta = 6^\circ 30' 28.18''$ (RT)
D = 3° 51' 39.25"
R = 1,484.00
L = 168.56
E = 2.40
T = 84.37
P.C. STA = 7131+90.52
N = 1,856,472.22
E = 1,177,176.00
P.T. STA = 7133+59.08
N = 1,856,304.13
E = 1,177,164.79

SB 71st/75th ST.
CD EXIT CONNECTOR
(RAMP CD7175A)
POT STA = 9423+50.00
N = 1,857,297.2866
E = 1,177,207.4713
POT STA = 9426+50.01
N = 1,856,997.4225
E = 1,177,198.1891
CD ENTRANCE CONNECTOR
(RAMP CD7175B)
POT STA = 9429+50.00
N = 1,856,694.2083
E = 1,177,205.3235
POT STA = 9434+40.27
N = 1,856,204.7281
E = 1,177,233.1786

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

ALIGNMENT PLAN
SHEET 4 OF 4

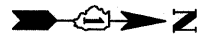
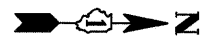
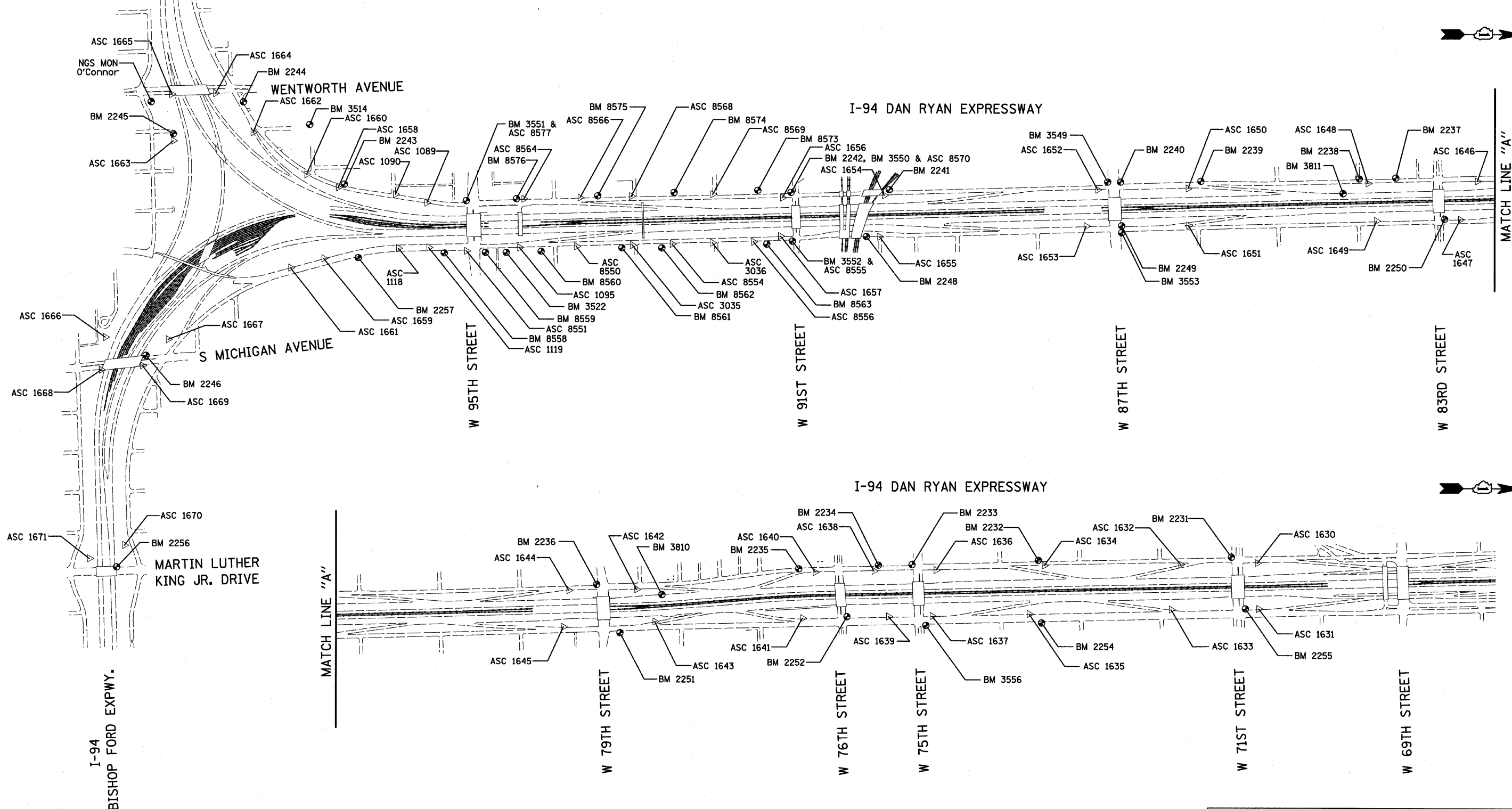
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DATE: JANUARY 16, 2009 CHECKED BY: JPM

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	9
STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977

I-57 EXPWY
SEE SHEET 2 OF 7
MATCH LINE "B"



REVISIONS	
NAME	DATE

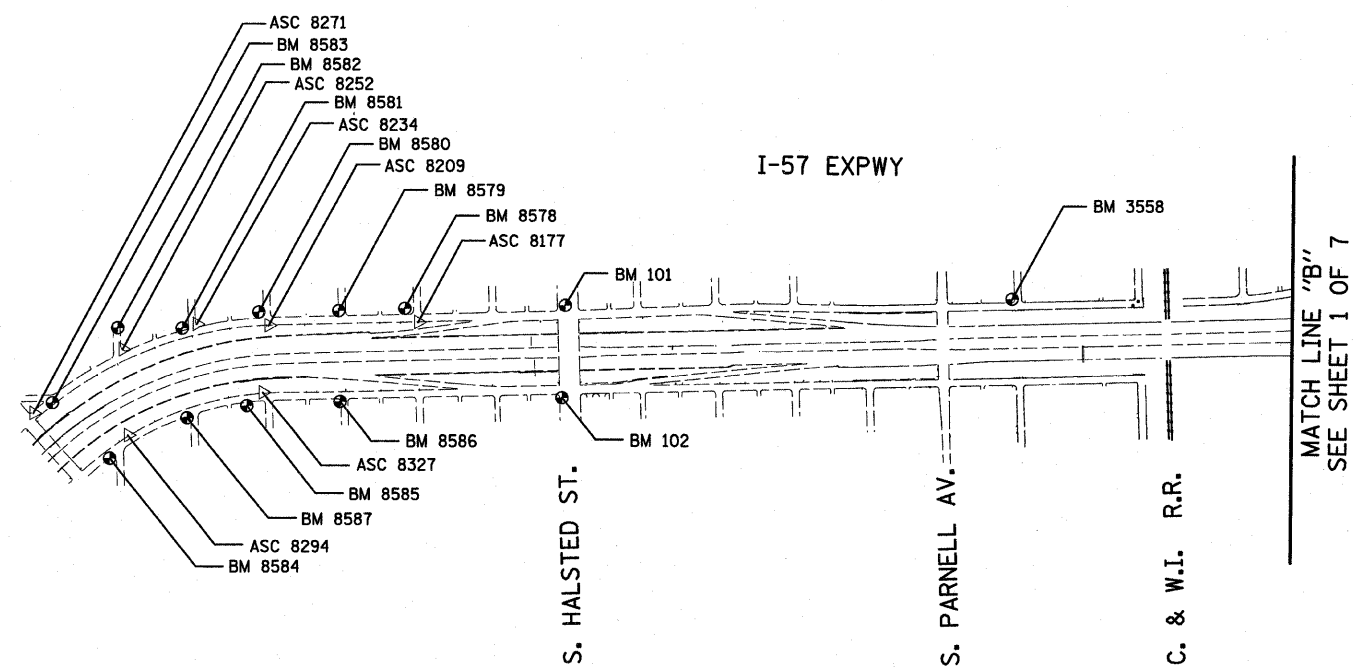
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
SURVEY TIES FOR CONTROL POINTS
SHEET 1 OF 7
SCALE: 1"=400'
DATE: JANUARY 16, 2009
DRAWN BY: GSP
CHECKED BY: MMW

American Surveying Consultants, P.C.
SURVEYING ENGINEERS AND LAND SURVEYORS
1827 PINE BLVD., SUITE 100, CHICAGO, ILL. 60614
TEL: 312-281-2211 FAX: 312-281-2212

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	10
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+95.72 (NB I-57)		TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62977



MATCH LINE "B"
SEE SHEET 1 OF 7

American Surveying Consultants, P.C.
1837 First St., Suite 200, IL 61101 825 N. Northman, Chicago, IL 60611
 312-284-2211 312-284-2211

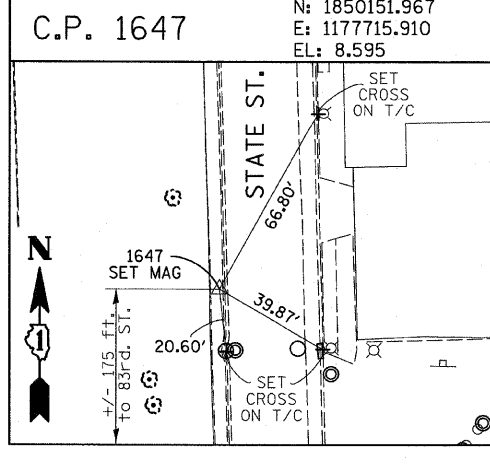
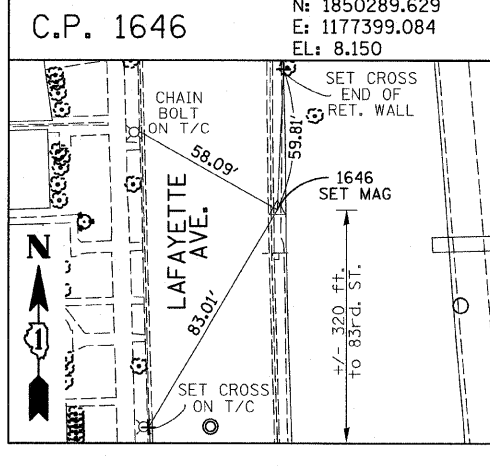
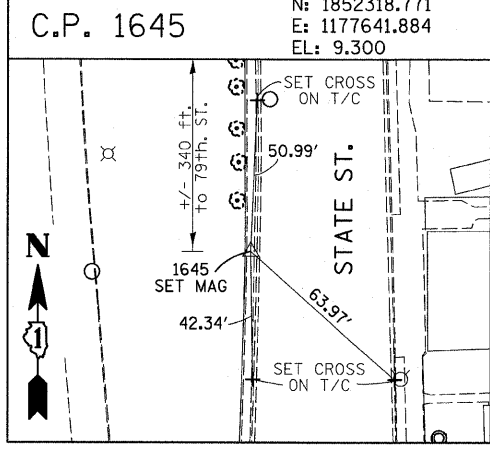
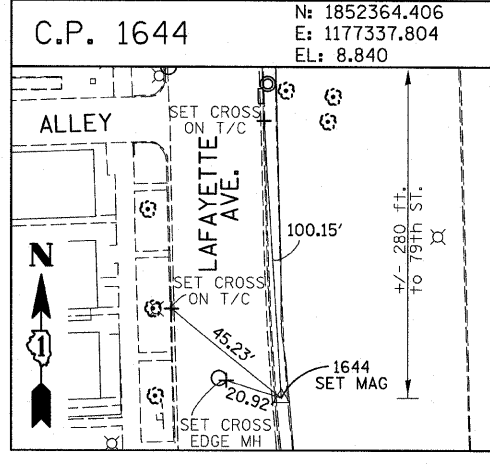
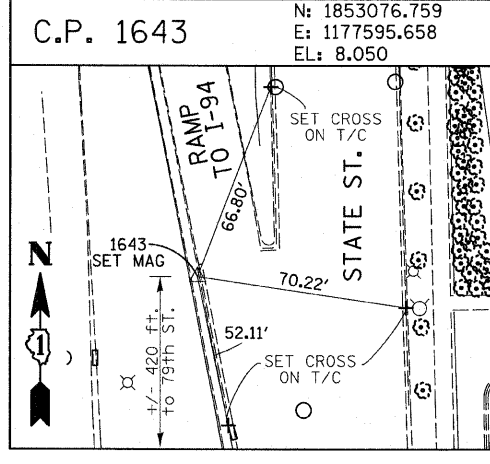
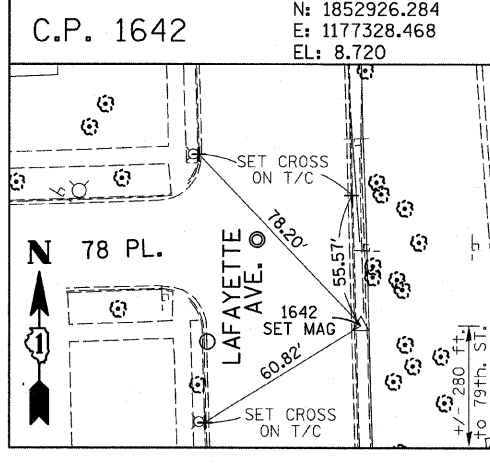
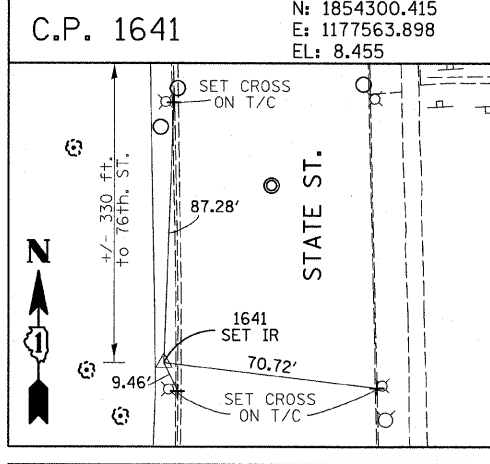
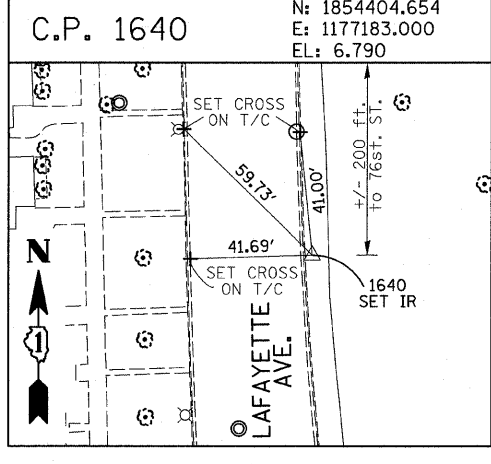
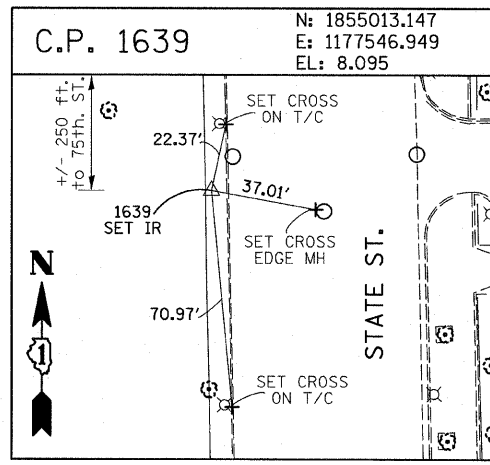
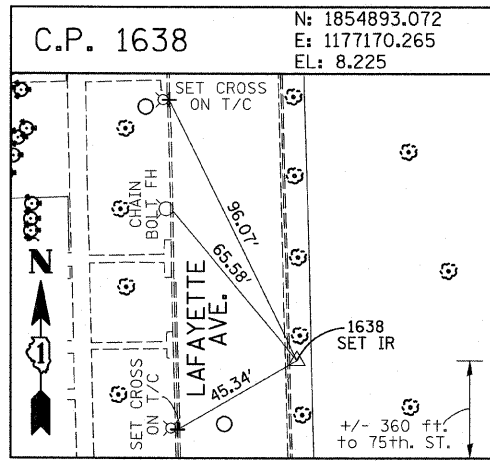
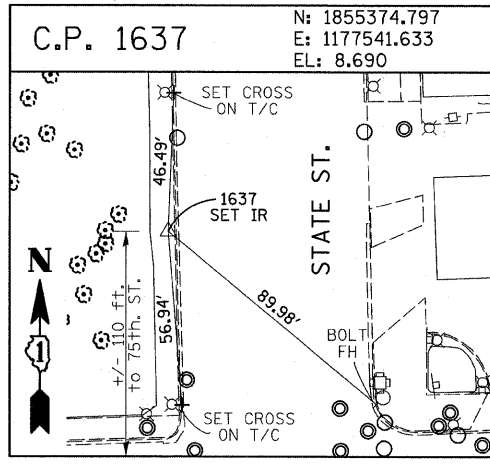
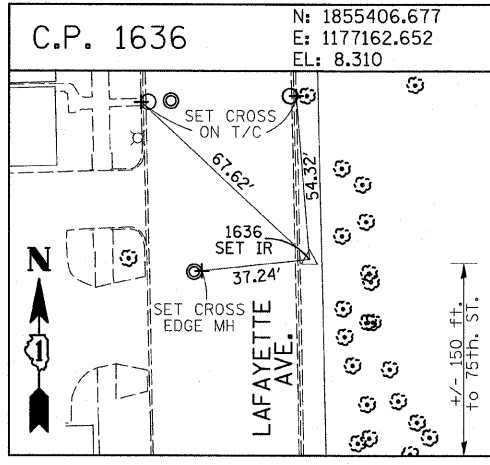
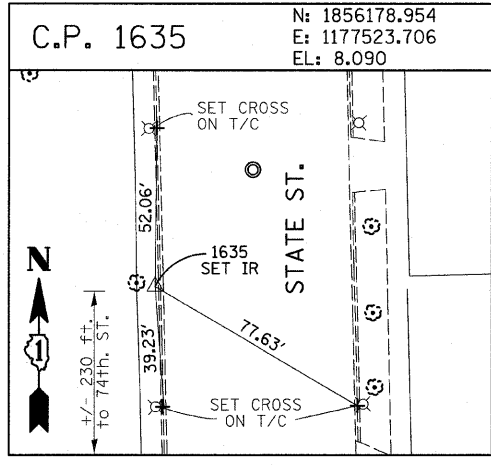
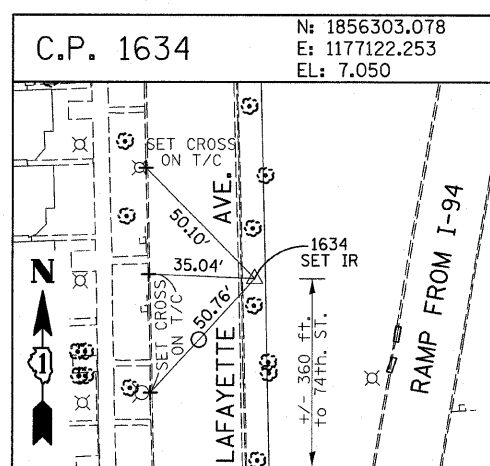
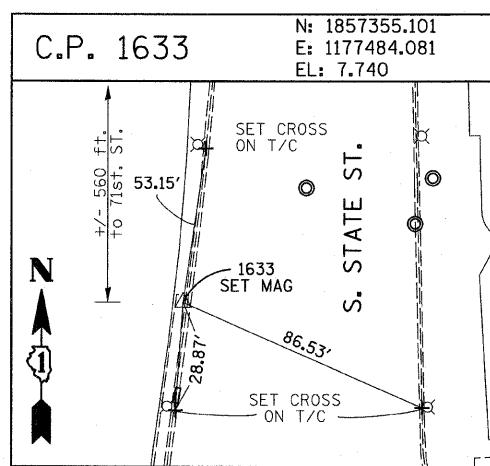
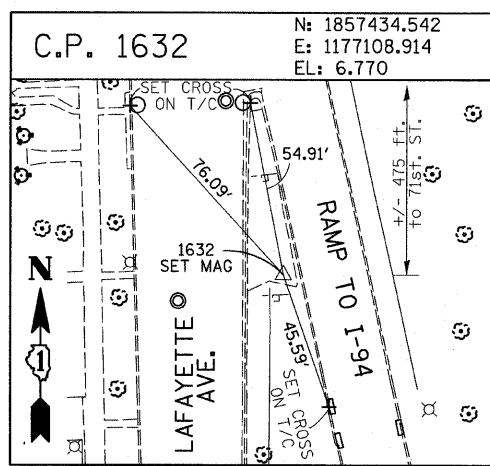
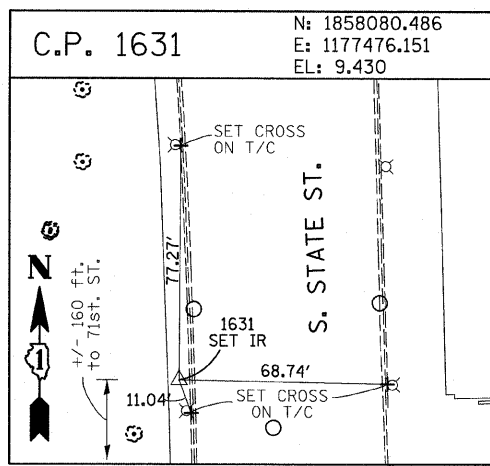
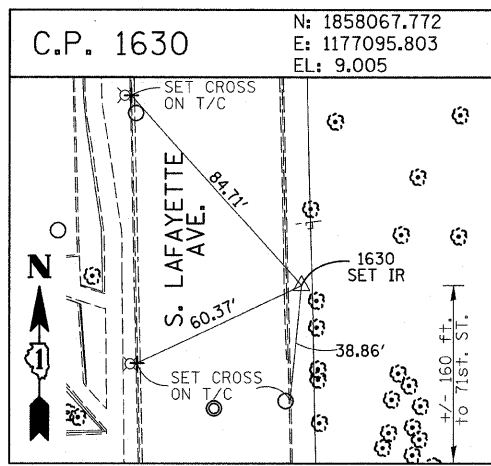
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 SURVEY TIES FOR CONTROL POINTS
 SHEET 2 OF 7
 SCALE: 1"=400'
 DATE: JANUARY 16, 2009
 DRAWN BY: GSP
 CHECKED BY: MMW

1/15/09 11:11:37 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	11
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 219+35.72 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977



American Surveying Consultants, P.C.
 1157 First National Bank Bldg., IL 61001 800 N. Northway, Springfield, IL 62761
 217-252-2221

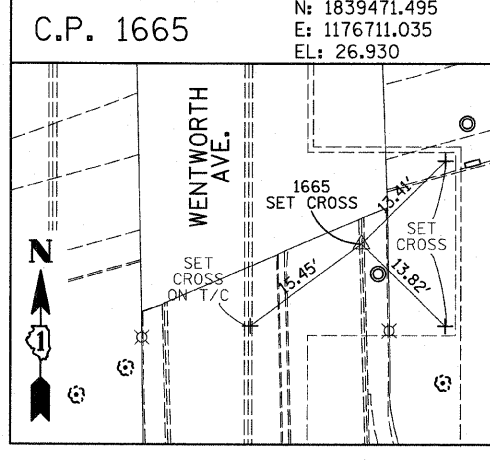
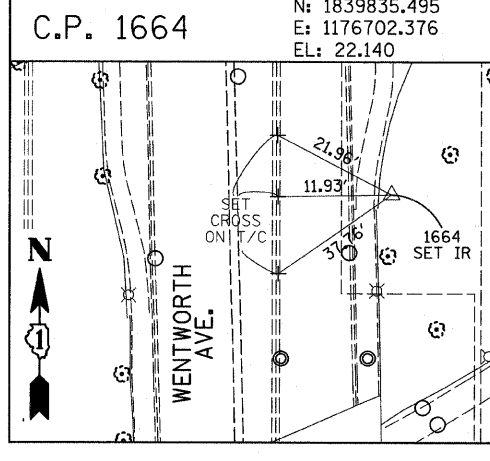
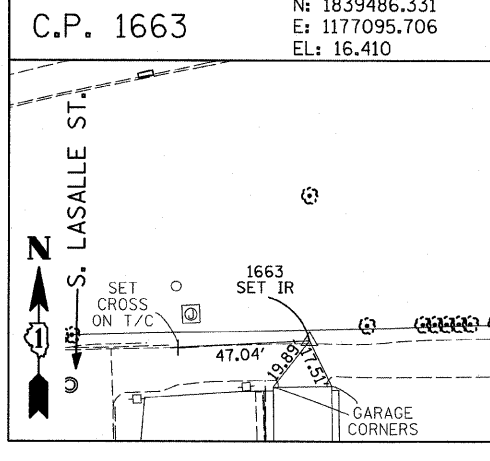
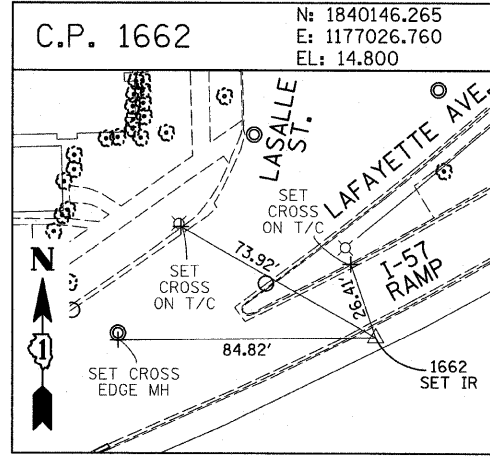
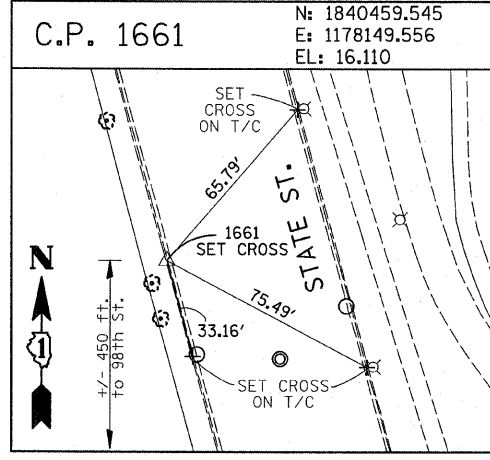
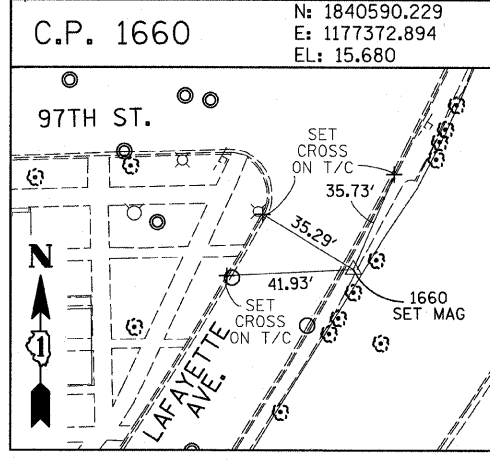
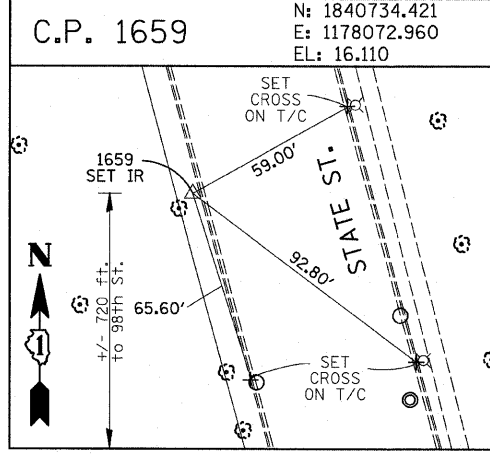
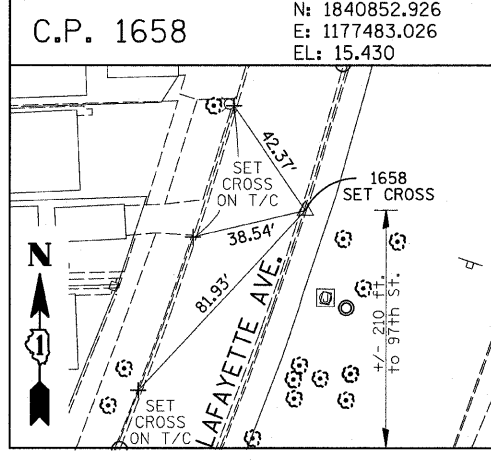
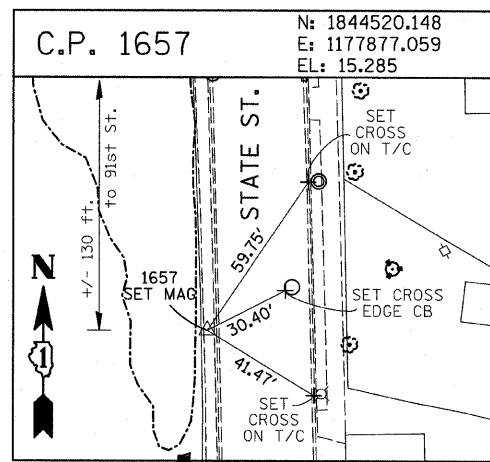
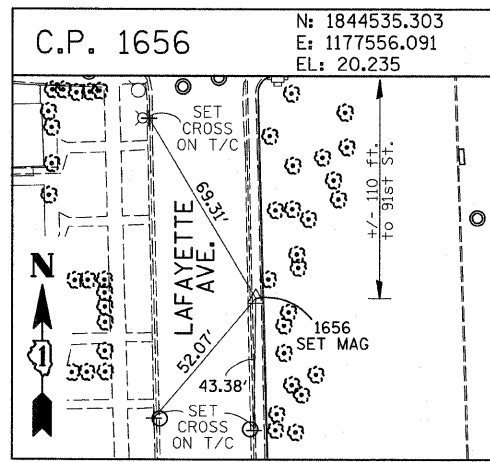
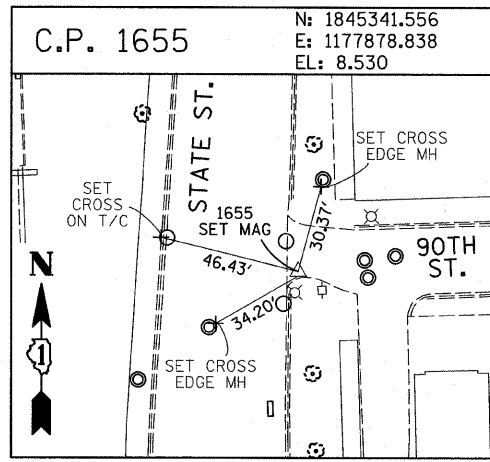
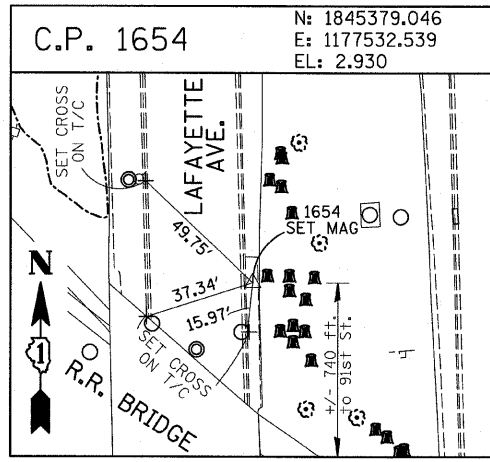
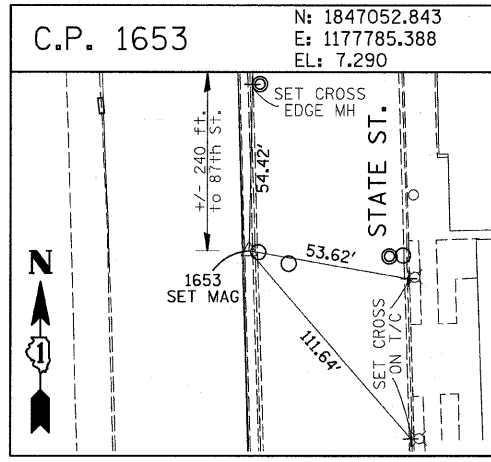
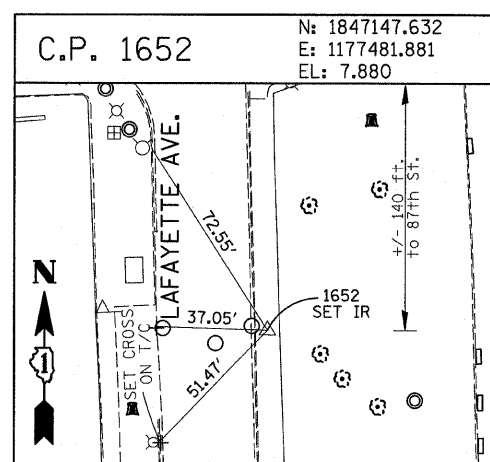
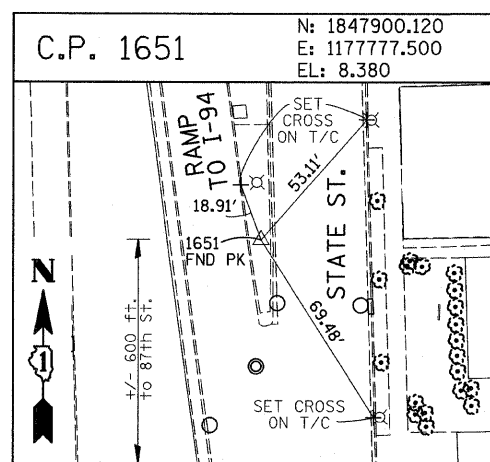
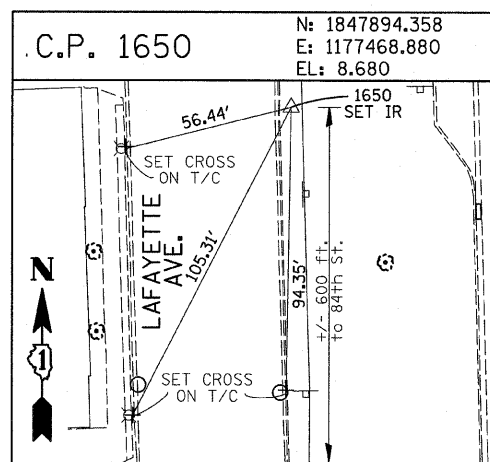
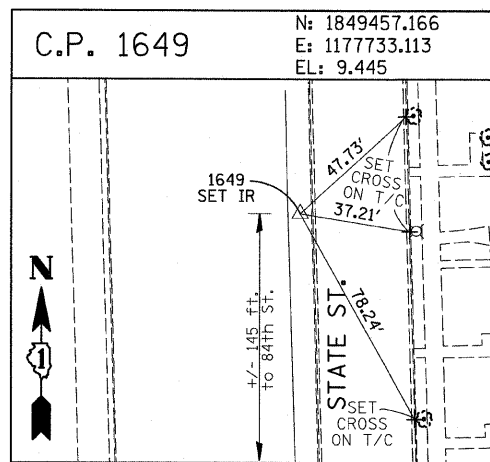
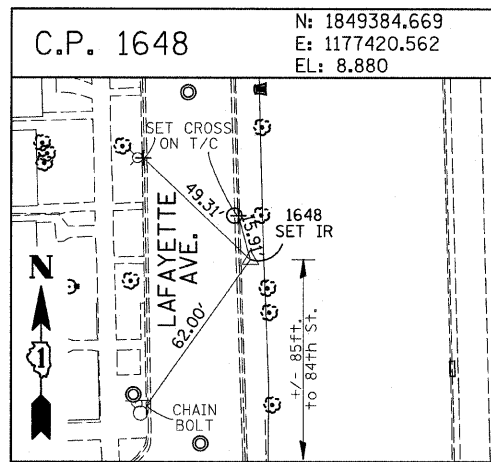
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 SURVEY TIES FOR CONTROL POINTS
 SHEET 3 OF 7
 SCALE: 1"=30'
 DATE: JANUARY 16, 2009
 DRAWN BY: GSP
 CHECKED BY: MMW

1/15/2009 11:40 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	12
STA. 218+35.72 (NB I-57) TO STA. 225+73.12 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977



American Surveying Consultants, P.C.
 1037 Plank Rd., Ste. 201, Joliet, IL 61701
 815-725-1100

REVISIONS	
NAME	DATE

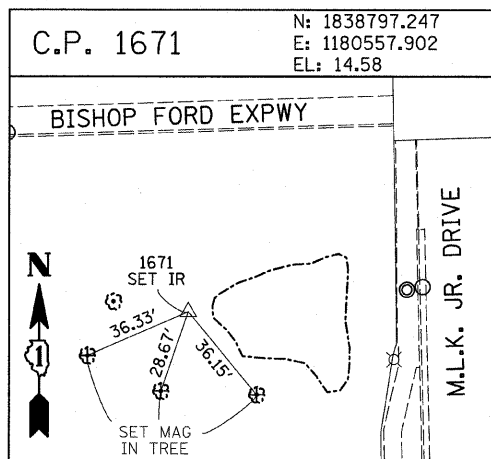
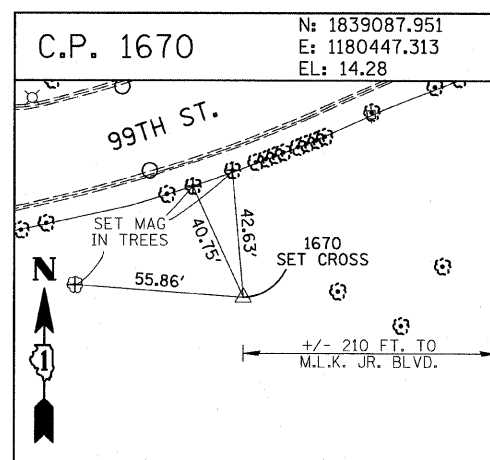
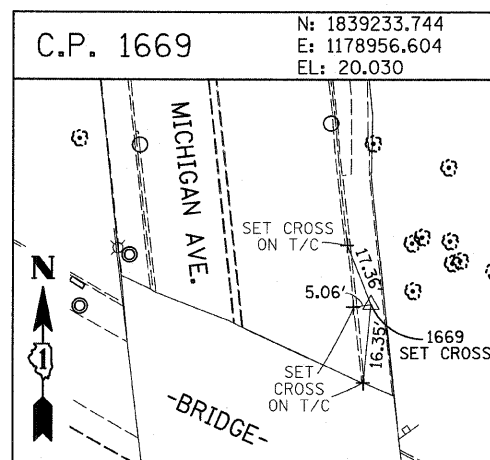
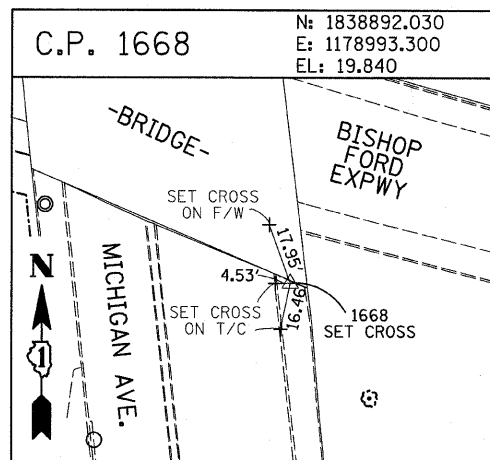
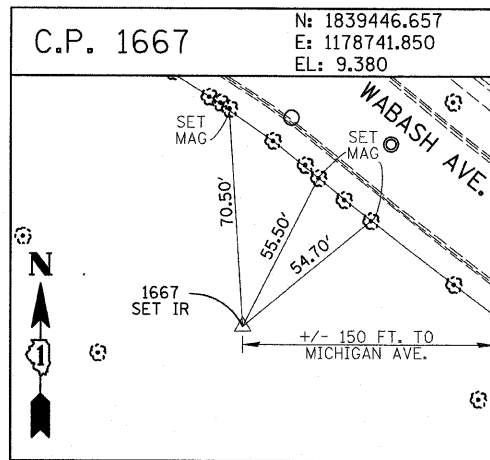
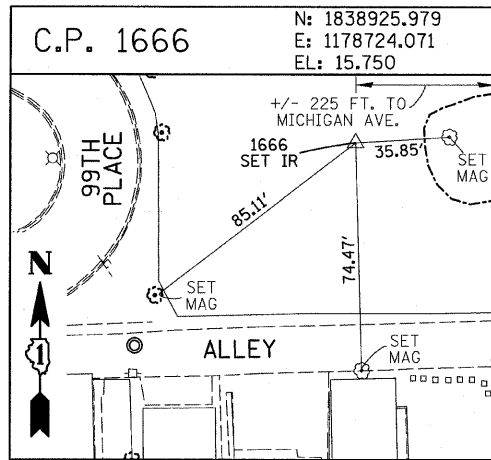
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 SURVEY TIES FOR CONTROL POINTS
 SHEET 4 OF 7

SCALE: 1"=30'
 DATE: JANUARY 16, 2009
 DRAWN BY: GSP
 CHECKED BY: MMW

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	13
117+38.11 (SB I-57)		TO STA. 154+03.94 (SB I-57)		
STA. 218+95.72 (NB I-57)		TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977



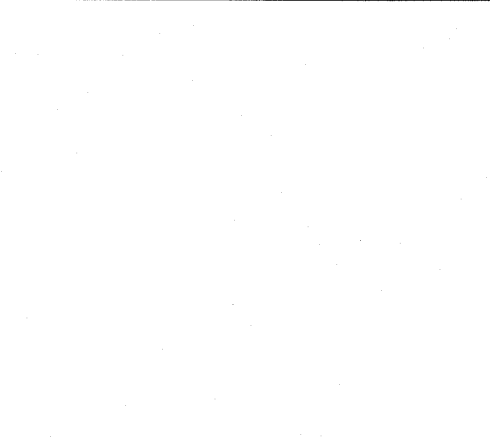
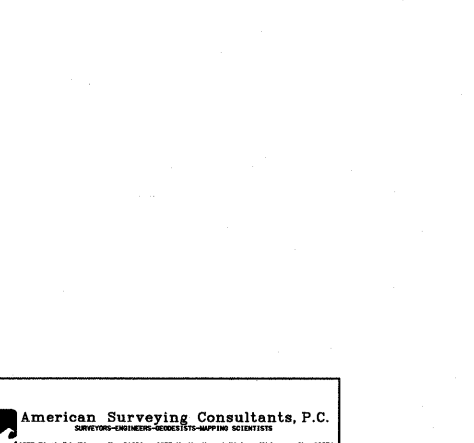
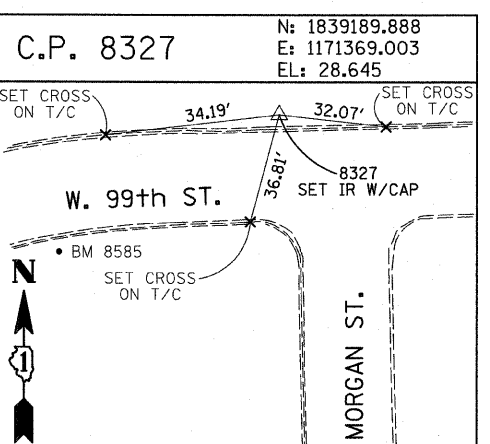
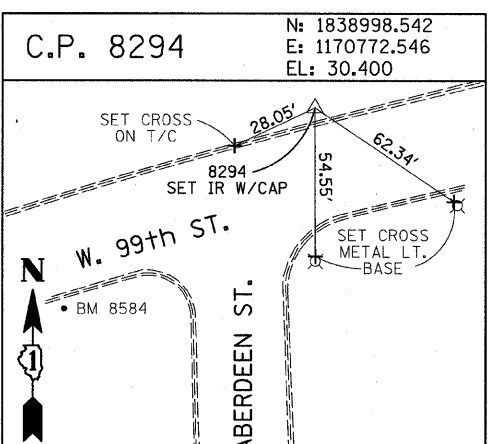
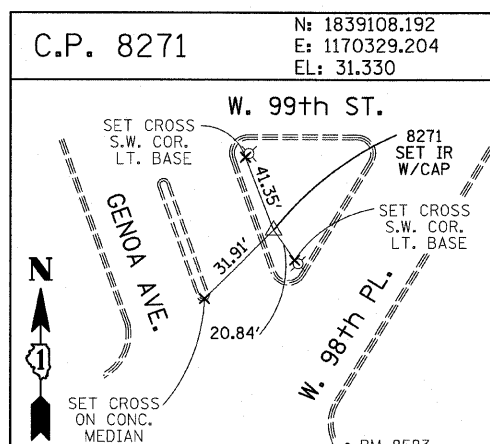
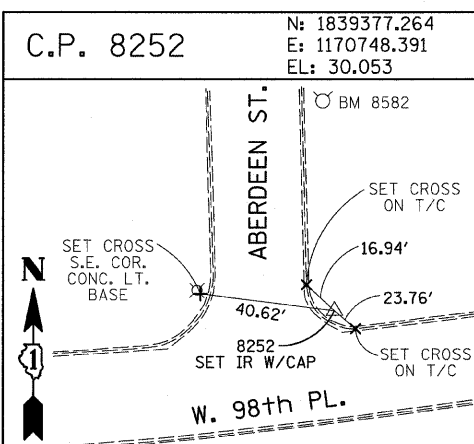
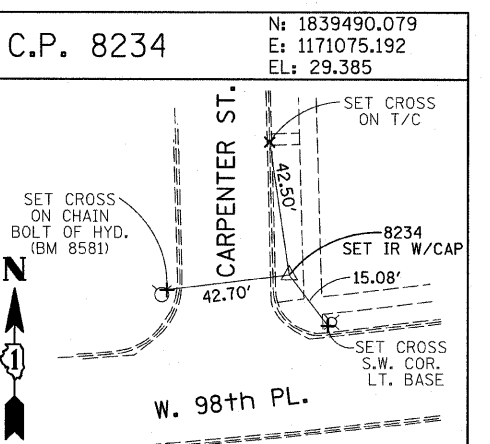
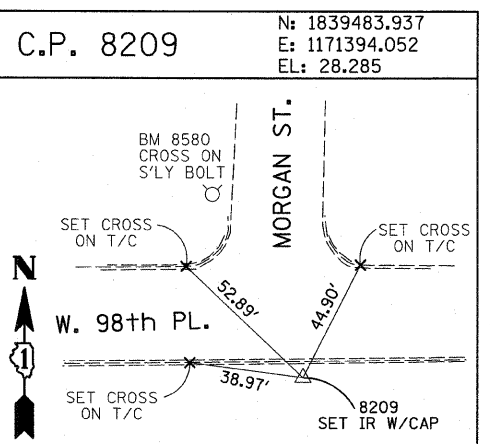
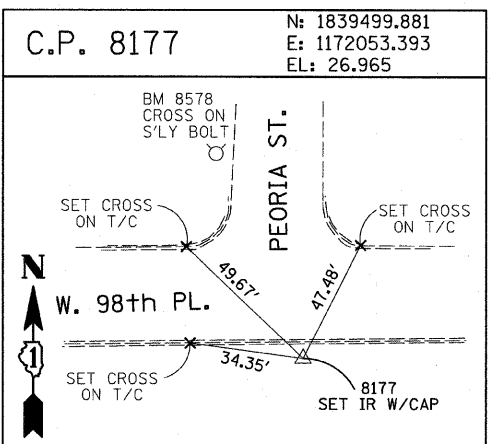
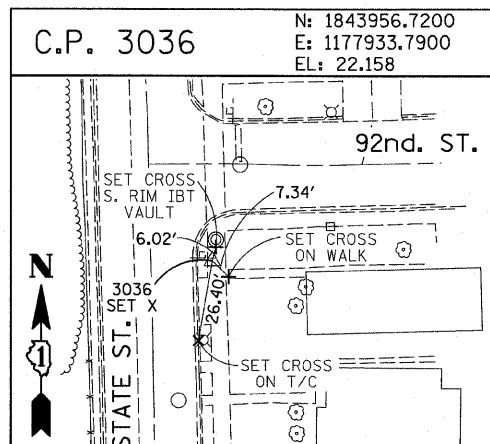
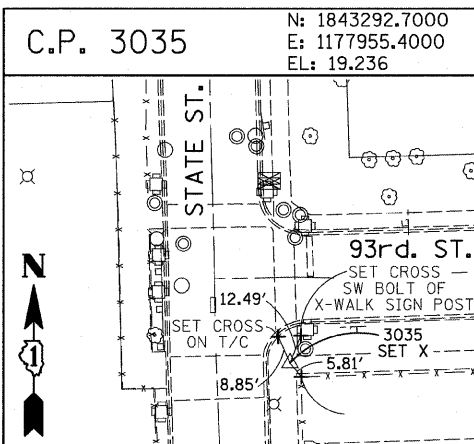
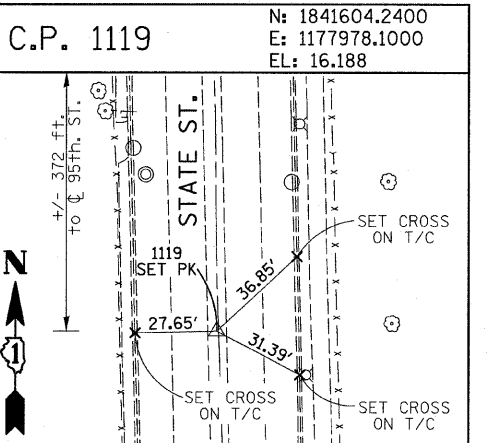
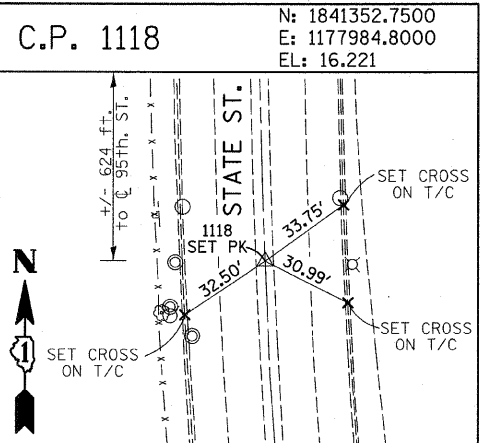
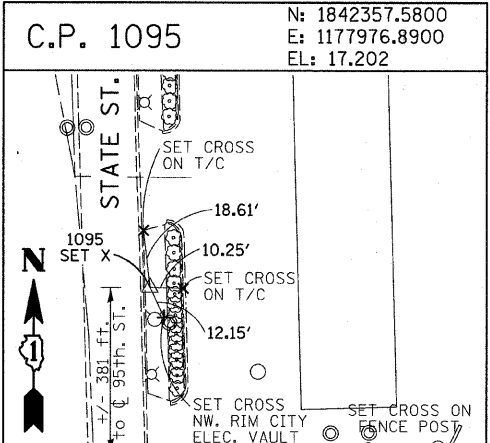
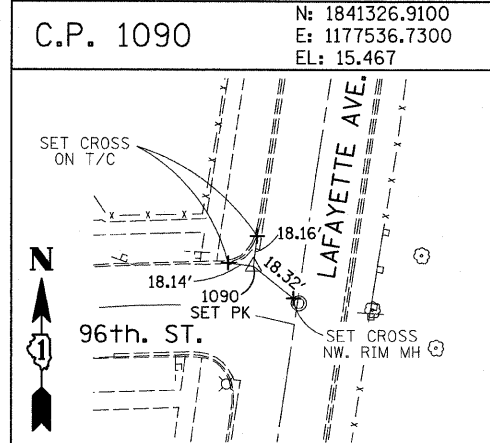
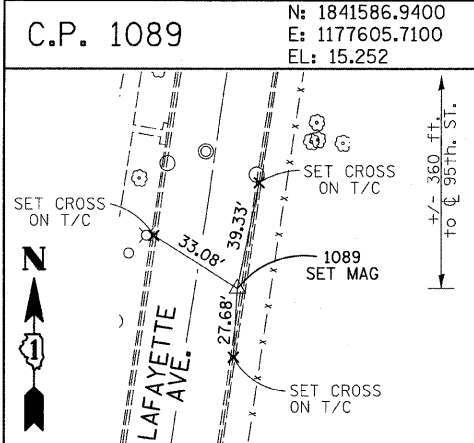
PROJECT BENCHMARKS

- BM 2231 ELEVATION= 10.24 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE SOUTHWEST CORNER OF 71ST STREET AND LAFAYETTE AVENUE.
- BM 2232 ELEVATION= 8.46 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT SOUTH OF 73RD STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 330 FEET SOUTH OF 73RD STREET.
- BM 2233 ELEVATION= 9.90 FEET
SET CROSS ON NORTHWEST BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF 75TH STREET AND LAFAYETTE AVENUE.
- BM 2234 ELEVATION= 9.56 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT SOUTH OF 75TH STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 320 FEET SOUTH OF 75TH STREET.
- BM 2235 ELEVATION= 7.50 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT SOUTH OF 76TH STREET ON THE WEST SIDE OF LAFAYETTE. APPROXIMATELY 330 FEET SOUTH OF 76TH STREET.
- BM 2236 ELEVATION= 10.41 FEET
SET CROSS ON WEST BOLT OF FIRE HYDRANT ON THE SOUTHWEST CORNER OF 79TH STREET AND LAFAYETTE AVENUE.
- BM 2237 ELEVATION= 9.20 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT NORTH OF 83RD STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 350 FEET NORTH OF 83RD STREET.
- BM 2238 ELEVATION= 10.04 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT OF THE NORTHWEST CORNER OF 4TH STREET AND LAFAYETTE AVENUE.
- BM 2239 ELEVATION= 9.59 FEET
SET CROSS ON CHAIN BOLT OF SECOND FIRE HYDRANT NORTH OF 87TH STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 720 FEET NORTH OF 87TH STREET.
- BM 2240 ELEVATION= 9.49 FEET
SET CROSS ON THE NORTHWEST BOLT OF FIRE HYDRANT ON THE SOUTHWEST CORNER OF 78TH STREET AND LAFAYETTE AVENUE.
- BM 2241 ELEVATION= 3.63 FEET
SET SQUARE CUT ON TOP OF CURB NEXT TO LIGHT POLE ON THE NORTHWEST CORNER OF LAFAYETTE AVENUE AND RAILROAD BRIDGE. APPROXIMATELY 770 FEET NORTH OF 91ST STREET.
- BM 2242 ELEVATION= 22.82 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE SOUTHWEST CORNER OF 91ST STREET AND LAFAYETTE AVENUE.
- BM 2243 ELEVATION= 15.68 FEET
SET SQUARE CUT ON THE TOP OF CURB NEXT TO THIRD LIGHT POLE NORTH OF 97TH STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 260 FEET NORTH OF 97TH STREET.
- BM 2244 ELEVATION= 15.94 FEET
SET SQUARE CUT ON TOP OF CURB NEXT TO LIGHT POLE ON THE NORTH SIDE OF 98TH STREET. APPROXIMATELY 120 FEET EAST OF WENTWORTH AVENUE.
- BM 2245 ELEVATION= 16.35 FEET
SET SQUARE CUT ON THE EAST END OF CURB AT THE NORTHEAST CORNER OF FIRST ALLEY NORTH OF 99TH STREET. APPROXIMATELY 35 FEET EAST OF LASALLE STREET.
- BM 2246 ELEVATION= 20.00 FEET
SET SQUARE CUT WITH CROSS ON TOP OF ABUTMENT WALL ON THE NORTHWEST CORNER OF STATE STREET BRIDGE OVER THE BISHOP FORD EXPRESSWAY. APPROXIMATELY 20 FEET NORTH OF THE NORTH EDGE OF THE BRIDGE.
- BM 2248 ELEVATION= 9.77 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT NORTH OF RAILROAD BRIDGE ON THE EAST SIDE OF STATE STREET. APPROXIMATELY 110 FEET SOUTH OF 90TH STREET.
- BM 2249 ELEVATION= 9.67 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF 87TH AND STATE STREET.
- BM 2250 ELEVATION= 10.03 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF 83RD ST. AND STATE STREET.
- BM 2251 ELEVATION= 10.95 FEET
FOUND CROSS ON EAST BOLT OF FIRE HYDRANT ON THE EAST SIDE OF STATE STREET. APPROXIMATELY 135 FEET NORTH OF 79TH STREET.
- BM 2252 ELEVATION= 10.02 FEET
SET CROSS ON WEST BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF STATE STREET AND 76TH STREET.
- BM 2254 ELEVATION= 9.17 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT SOUTH OF 73RD STREET ON THE EAST SIDE OF STATE STREET. APPROXIMATELY 330 FEET SOUTH OF 73RD STREET.
- BM 2255 ELEVATION= 11.25 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF 71ST STREET AND STATE STREET.
- BM 2256 ELEVATION= 16.36 FEET
SET SQUARE CUT ON TOP OF ABUTMENT WALL ON THE NORTHWEST CORNER OF MARTIN LUTHER KING DRIVE BRIDGE OVER THE BISHOP FORD EXPRESSWAY. APPROXIMATELY 1 FOOT NORTH OF THE NORTH END OF THE BRIDGE.
- BM 2257 ELEVATION= 18.25 FEET
SET CROSS ON NORTHEAST BOLT OF LIGHT POLE BASE ON THE EAST SIDE OF STATE STREET. APPROXIMATELY 970 FEET SOUTH OF 95TH STREET.
- BM 2258 ELEVATION= 10.53 FEET
SET CROSS ON NORTHWEST BOLT OF LIGHT BASE ON NORTHWEST CORNER OF 71ST STREET AND LAFAYETTE AVENUE.

REVISIONS	
NAME	DATE

1/15/2009 10:35:58 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	14
117+38.11 (SB I-57) TO STA. 218+95.72 (NB I-57)		154+08.94 (SB I-57) TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		62977



American Surveying Consultants, P.C.
 1837 Pinckney St., Chicago, IL 60611
 312-467-1100

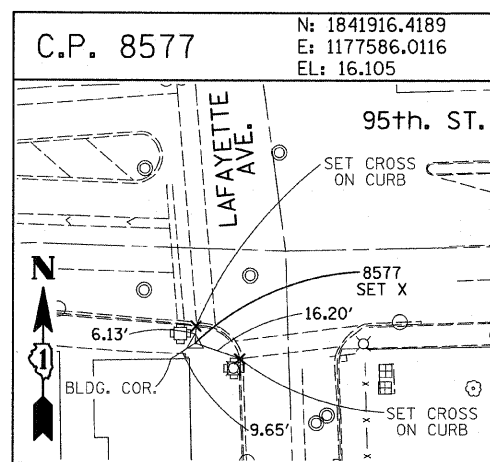
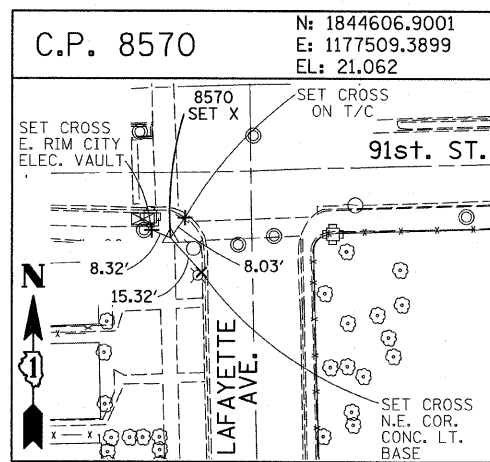
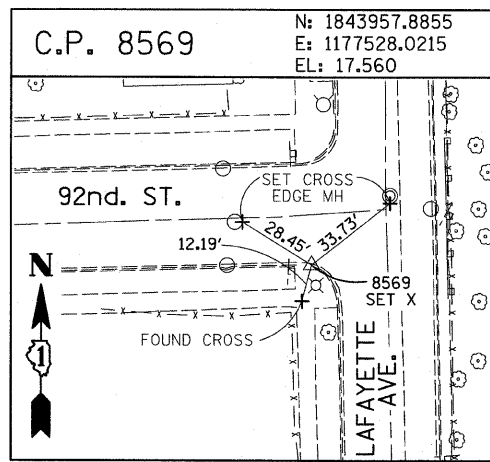
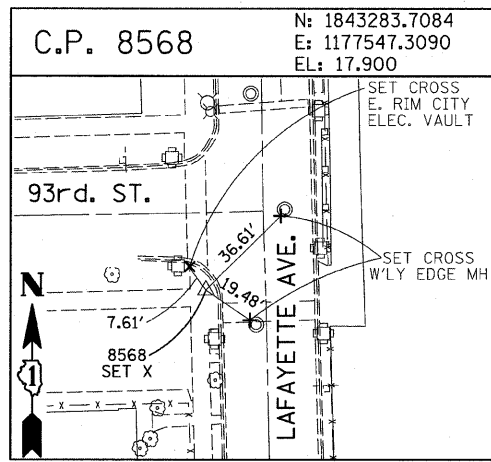
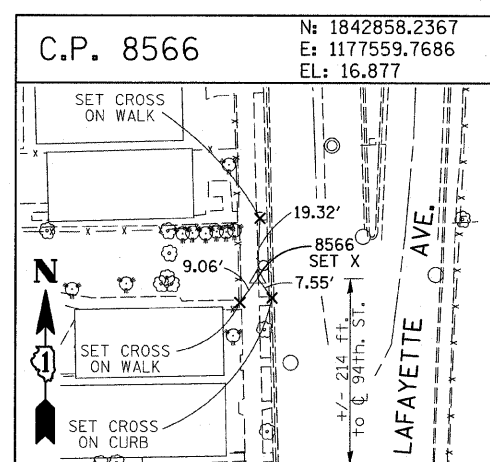
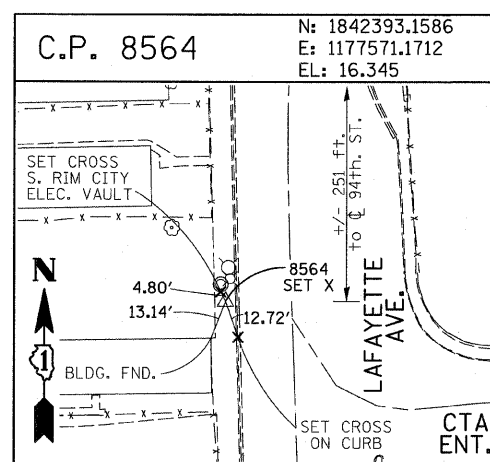
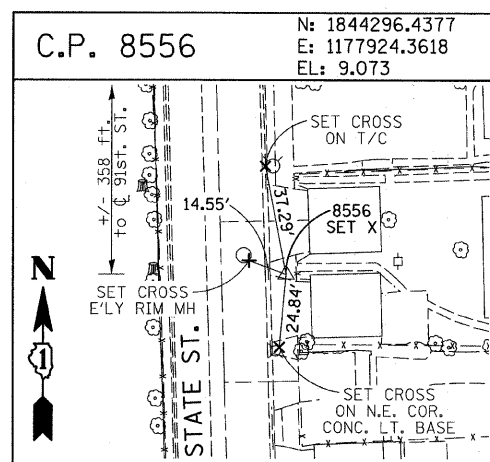
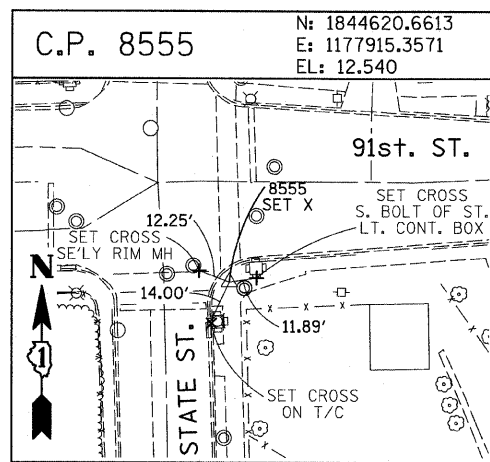
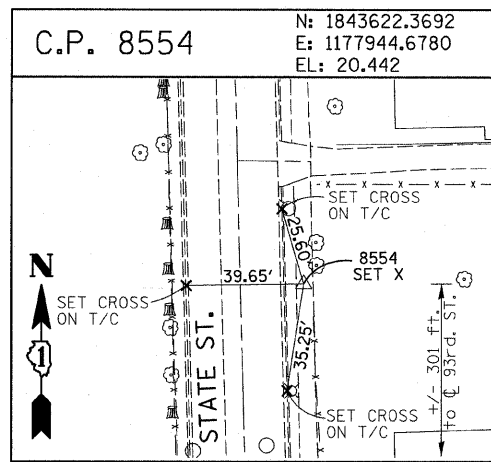
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 SURVEY TIES FOR CONTROL POINTS
 SHEET 6 OF 7
 SCALE: 1"=30'
 DATE: JANUARY 16, 2009
 DRAWN BY: GSP
 CHECKED BY: MMW

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	15
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+55.72 (NB I-57) TO STA. 225+79.12 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977



PROJECT BENCHMARKS

- BM 101 ELEVATION= 24.89 FEET
SET SQUARE CUT ON SOUTHERLY CURB OF WEST 98TH PLACE, APPROXIMATELY 70 FEET EAST OF THE CENTERLINE OF GREEN STREET.
- BM 102 ELEVATION= 27.36 FEET
SET CROSS ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHWEST CORNER OF WEST 99TH STREET AND GREEN STREET.
- BM 8558 ELEVATION= 17.73 FEET
SET SQUARE CUT ON SOUTHEAST CORNER OF FOURTH LIGHT BASE SOUTH OF 95TH STREET, ON THE EAST SIDE OF STATE STREET.
- BM 8559 ELEVATION= 17.10 FEET
SET SQUARE CUT ON SOUTHWEST CORNER OF CONCRETE SIGN BASE AT THE NORTHWEST CORNER OF THE MOBIL GAS STATION PROPERTY AT THE NORTHEAST CORNER OF 95TH STREET AND STATE STREET.
- BM 8560 ELEVATION= 17.50 FEET
SET SQUARE CUT ON SOUTHEAST CORNER OF CONCRETE BUS SLAB ON THE EAST SIDE OF STATE STREET, APPROXIMATELY 50 FEET SOUTH OF THE CENTERLINE OF 94TH STREET.
- BM 8561 ELEVATION= 19.77 FEET
SET CROSS ON SOUTHEASTERLY FLANGE BOLT OF FIRST FIRE HYDRANT SOUTH OF 93RD STREET, ON THE EAST SIDE OF STATE STREET.
- BM 8562 ELEVATION= 22.29 FEET
SET CROSS ON SOUTHEASTERLY FLANGE BOLT OF FIRST FIRE HYDRANT NORTH OF 93RD STREET, ON THE EAST SIDE OF STATE STREET.
- BM 8563 ELEVATION= 20.47 FEET
SET CROSS ON SOUTHEASTERLY FLANGE BOLT OF FIRST FIRE HYDRANT SOUTH OF 91ST STREET, ON THE EAST SIDE OF STATE STREET.
- BM 8573 ELEVATION= 19.89 FEET
SET SQUARE CUT ON EAST SIDE OF SIDEWALK OPPOSITE TO THE SECOND FIRE HYDRANT SOUTH OF 91ST STREET, ON THE WEST SIDE OF LAFAYETTE AVENUE.
- BM 8574 ELEVATION= 18.90 FEET
SET CROSS ON THE WESTERLY FLANGE BOLT OF FIRE HYDRANT APPROXIMATELY AT 9224 S. LAFAYETTE AVENUE, ON THE WEST SIDE OF LAFAYETTE AVENUE.
- BM 8575 ELEVATION= 17.77 FEET
SET CROSS ON THE WESTERLY FLANGE BOLT OF FIRE HYDRANT APPROXIMATELY AT 9326 S. LAFAYETTE AVENUE, ON THE WEST SIDE OF LAFAYETTE AVENUE.

- BM 8576 ELEVATION= 17.43 FEET
SET CROSS ON THE WESTERLY FLANGE BOLT OF FIRE HYDRANT AT THE VACANT LOT BETWEEN 9416 AND 9422 S. LAFAYETTE AVENUE, ON THE WEST SIDE OF LAFAYETTE AVENUE.
- BM 8578 ELEVATION= 27.92 FEET
SET CROSS ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF WEST 98TH PLACE AND PEORIA STREET.
- BM 8579 ELEVATION= 28.59 FEET
SET CROSS ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF WEST 98TH PLACE AND SANGAMON STREET.
- BM 8580 ELEVATION= 29.24 FEET
SET CROSS ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF WEST 98TH PLACE AND MORGAN STREET.
- BM 8581 ELEVATION= 30.82 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF CARPENTER STREET AND WEST 98TH PLACE.
- BM 8582 ELEVATION= 30.69 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT NORTH OF WEST 98TH PLACE, ON THE EAST SIDE OF ABERDEEN STREET.
- BM 8583 ELEVATION= 33.14 FEET
SET SQUARE CUT ON CONCRETE BRIDGE WALL AT THE SOUTHEASTERLY CORNER OF GENOA AVENUE AND 99TH STREET.
- BM 8584 ELEVATION= 32.36 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT WEST OF ABERDEEN STREET, ON THE SOUTHERLY SIDE OF 99TH STREET.
- BM 8585 ELEVATION= 30.28 FEET
SET CROSS ON SOUTHERLY FLANGE BOLT OF FIRST FIRE HYDRANT WEST OF MORGAN STREET, ON THE SOUTH SIDE OF 99TH STREET.
- BM 8586 ELEVATION= 28.75 FEET
SET CROSS ON NORTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHWEST CORNER OF 99TH STREET AND SANGAMON STREET.
- BM 8587 ELEVATION= 31.19 FEET
SET CROSS ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHWEST CORNER OF 99TH STREET AND CARPENTER STREET.

- BM 3514 ELEVATION= 17.56 FEET
SET CROSS ON CHAIN BOLT OF HYDRANT AT SOUTHWEST INTERSECTION OF LASALLE ST. AND 97TH ST.
- BM 3522 ELEVATION= 18.06 FEET
SET CROSS ON SOUTH SOUTHEAST FLANGE BOLT OF HYDRANT ± HALFWAY BETWEEN NORTH AND SOUTH ENTRANCE TO CITGO, EAST SIDE OF STATE ST. AND NORTH OF 95TH ST.
- BM 3549 ELEVATION= 9.49 FEET
SET CROSS WESTERLY FLANGE BOLT OF HYDRANT AT SOUTHWEST INTERSECTION OF 87TH ST. AND LAFAYETTE AVE.
- BM 3550 ELEVATION= 22.88 FEET
SET CROSS WESTERLY FLANGE BOLT OF HYDRANT AT SOUTHWEST INTERSECTION OF 91ST ST. AND LAFAYETTE AVE.
- BM 3551 ELEVATION= 17.50 FEET
SET CROSS NORTHERLY FLANGE BOLT OF HYDRANT AT SOUTHWEST INTERSECTION OF 95TH ST. AND LAFAYETTE AVE.
- BM 3552 ELEVATION= 14.81 FEET
SET CROSS NORTHEAST BOLT OF TRAFFIC SIGNAL/LIGHT BASE AT SOUTHEAST INTERSECTION OF 91ST ST. AND STATE ST.
- BM 3553 ELEVATION= 8.47 FEET
SET CROSS NORTHWEST BOLT OF TRAFFIC SIGNAL/LIGHT BASE AT NORTHEAST INTERSECTION OF 87TH ST. AND STATE ST.
- BM 3556 ELEVATION= 9.06 FEET
SET CROSS EASTERLY FLANGE BOLT OF HYDRANT AT NORTHEAST CORNER OF 75TH ST. AND STATE ST.
- BM 3558 ELEVATION= 18.15 FEET
SET CROSS SOUTHWESTERLY FLANGE BOLT OF HYDRANT AT NORTHWEST INTERSECTION OF NORMAL ST. AND 98TH PLACE.
- BM 3810 ELEVATION= 0.29 FEET
CUT SQUARE ON SOUTHERLY CORNER OF METAL BASE FOR OVERHEAD SIGN, ON THE WESTERLY SIDE OF SOUTHBOUND DAN RYAN, OPPOSITE OF WEST 77TH PLACE, APPROXIMATELY 1000 FEET NORTH OF 79TH STREET BRIDGE.
- BM 3811 ELEVATION= 1.95 FEET
CUT SQUARE ON SOUTHEASTERLY CORNER OF METAL BASE FOR OVERHEAD SIGN, ON THE WESTERLY SIDE OF SOUTHBOUND DAN RYAN APPROXIMATELY 840 FEET SOUTHERLY OF 83RD STREET.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

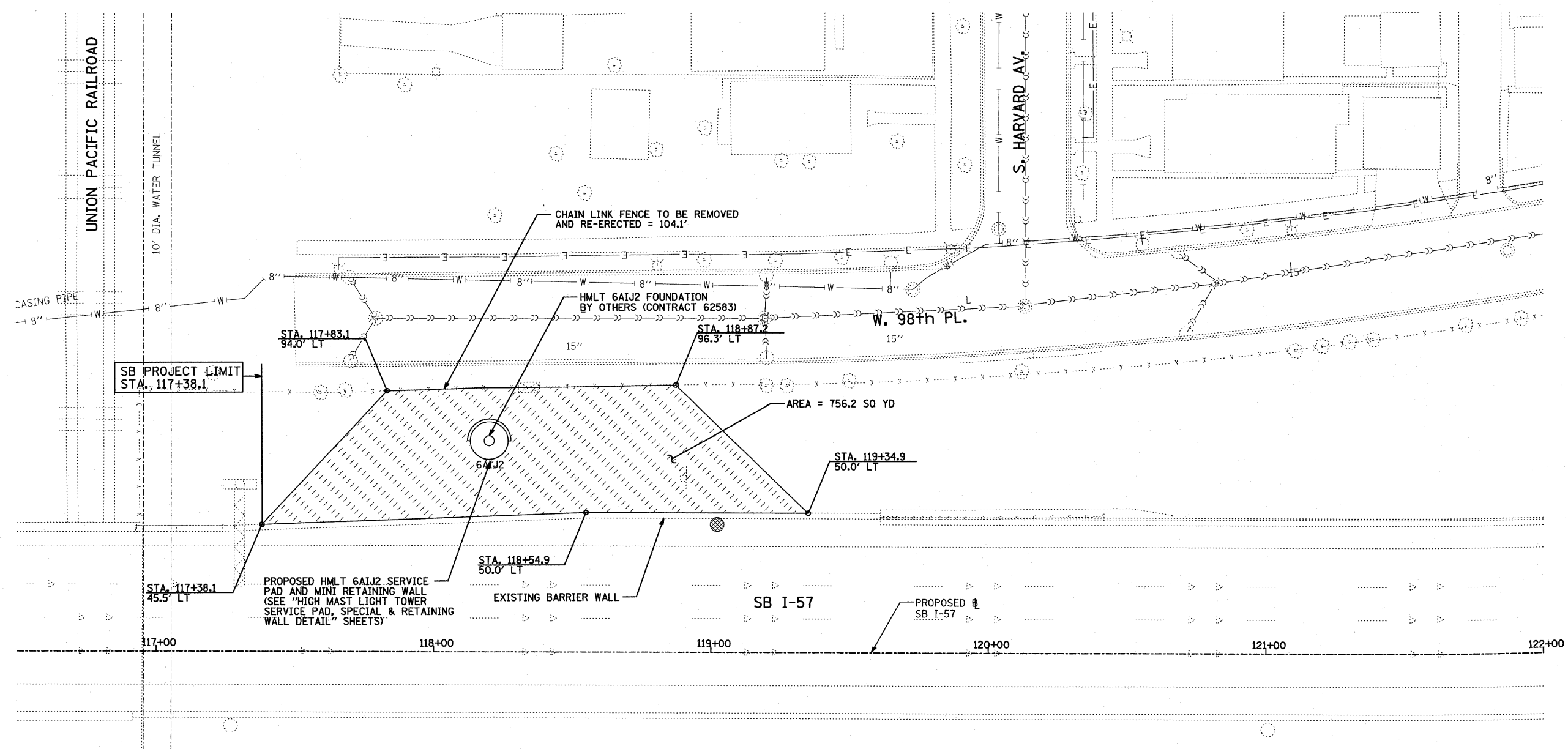
SURVEY TIES FOR CONTROL POINTS
SHEET 7 OF 7

SCALE: 1"=30'
DATE: JANUARY 16, 2009

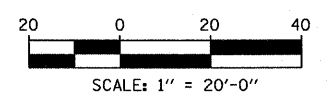
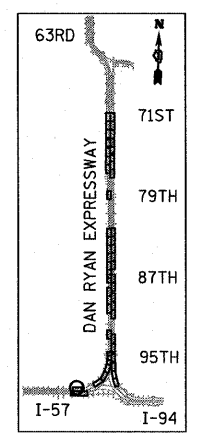
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CHECKED BY: MMW

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	16
STA. 117+38.1 (SB I-57) TO STA. 154+09.94 (SB I-57)		STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62977



- LEGEND:**
- TEMPORARY EROSION CONTROL SEEDING
 - SEDIMENT CONTROL, SILT FENCE
 - INLET FILTER



REVISIONS	
NAME	DATE

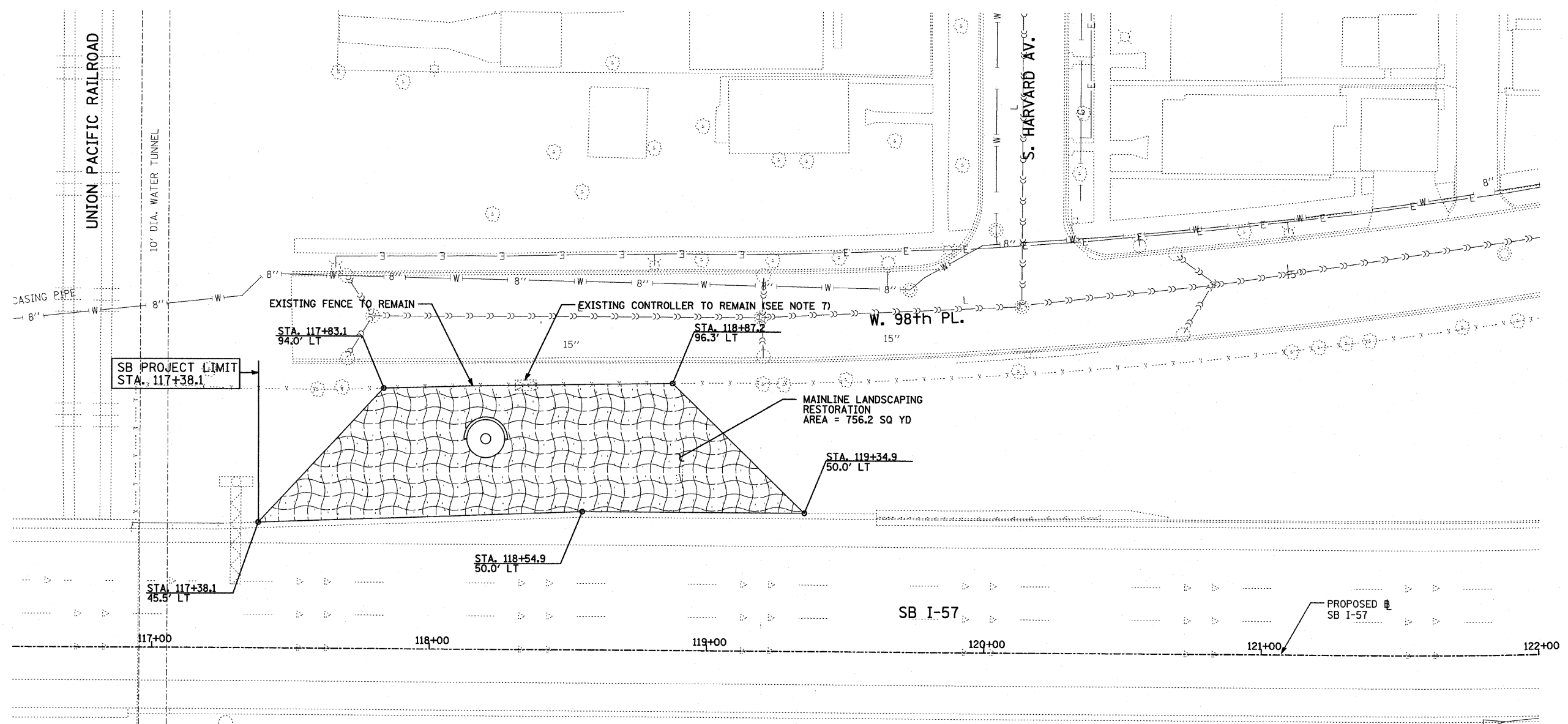
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 PROPOSED PLAN
 EROSION CONTROL PLAN
 HMLT 6AIJ2
 SB I-57
 STA. 116+50.00 TO STA. 122+00.00
 SCALE: 1"=20'
 DATE: JANUARY 16, 2009
 DRAWN BY: AMB
 CHECKED BY: TGB, MI

TYLIN INTERNATIONAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	17
117+38.11 (SB I-57) TO STA. 154+03.94 (SB I-57)				
STA. 218+95.72 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				


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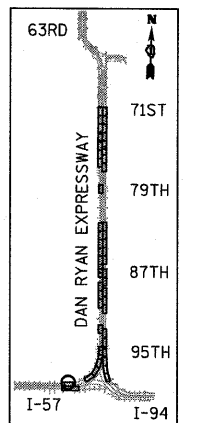


LANDSCAPING GENERAL PLAN NOTES:

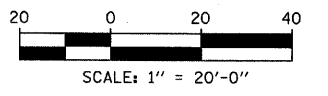
1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
2. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE.
3. AREAS TO BE SEEDED BETWEEN NOVEMBER 1 AND APRIL 1 SHALL REQUIRE DORMANT SEEDING, WHICH SHALL BE INCLUDED IN THE COST OF SEEDING CLASS 2A.
4. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASSES 4, 4A (MODIFIED), 5, AND 5(A) MODIFIED SHALL BE FROM APRIL 15 TO JUNE 30 AND FROM OCTOBER 15 TO DECEMBER 1. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
6. LAYOUT OF LANDSCAPED AREAS WILL REQUIRE APPROVAL OF THE ENGINEER PRIOR TO TOPSOIL PLACEMENT, SEEDING, AND PLANTING.
7. THE CONTRACTOR SHALL PROTECT AND USE CAUTION DURING CONSTRUCTION OPERATIONS AROUND ALL EXISTING UTILITY FACILITIES.

LEGEND:

-  EROSION CONTROL BLANKET, SEEDING, CLASS 2A
- ADDITIONAL QUANTITIES FOR TOPSOIL FURNISH AND PLACE 12" AND COMPOST FURNISH AND PLACE, 6" HAVE BEEN PROVIDED FOR THE AREA AROUND THE HMLT SERVICE PAD. A RADIUS OF 20 FT FROM THE EDGE OF THE SERVICE PAD WAS USED TO CALCULATE THIS ADDITIONAL QUANTITY.



LOCATION MAP



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
LANDSCAPING PLAN
HMLT 6AIJ2
SB I-57
STA. 116+50.00 TO STA. 122+00.00

SCALE: 1"=20'
DATE: JANUARY 16, 2009

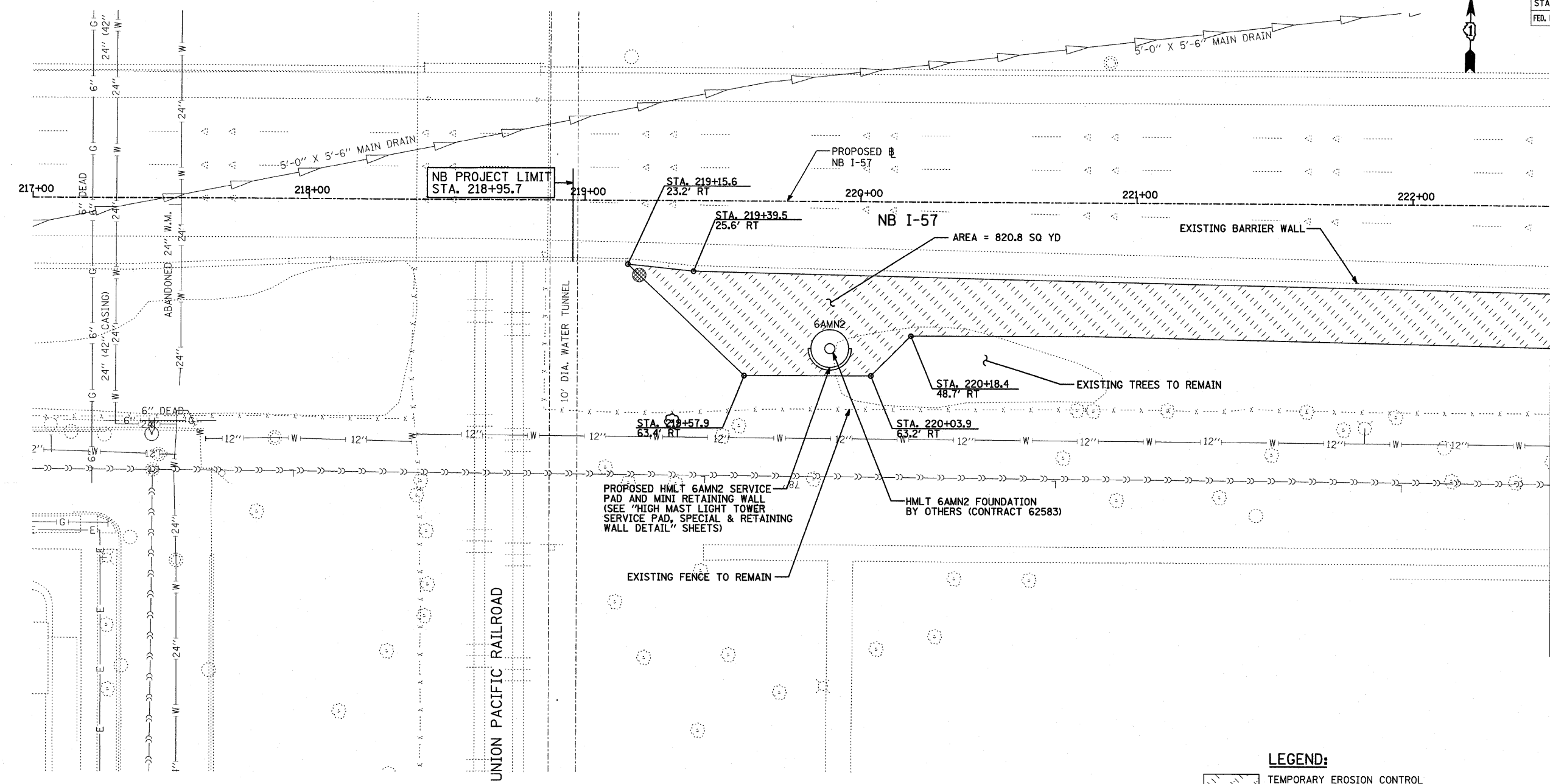
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CHECKED BY: TGB, MI

TYLIN INTERNATIONAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	18
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

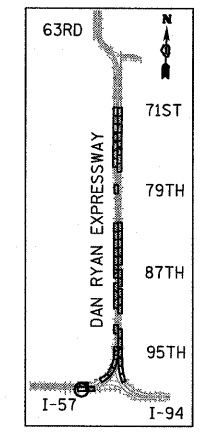
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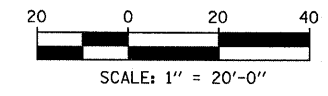
MATCHLINE STA. 222+50.00

UNION PACIFIC RAILROAD

- LEGEND:**
- TEMPORARY EROSION CONTROL SEEDING
 - SEDIMENT CONTROL, SILT FENCE
 - INLET FILTER



LOCATION MAP



REVISIONS	
NAME	DATE

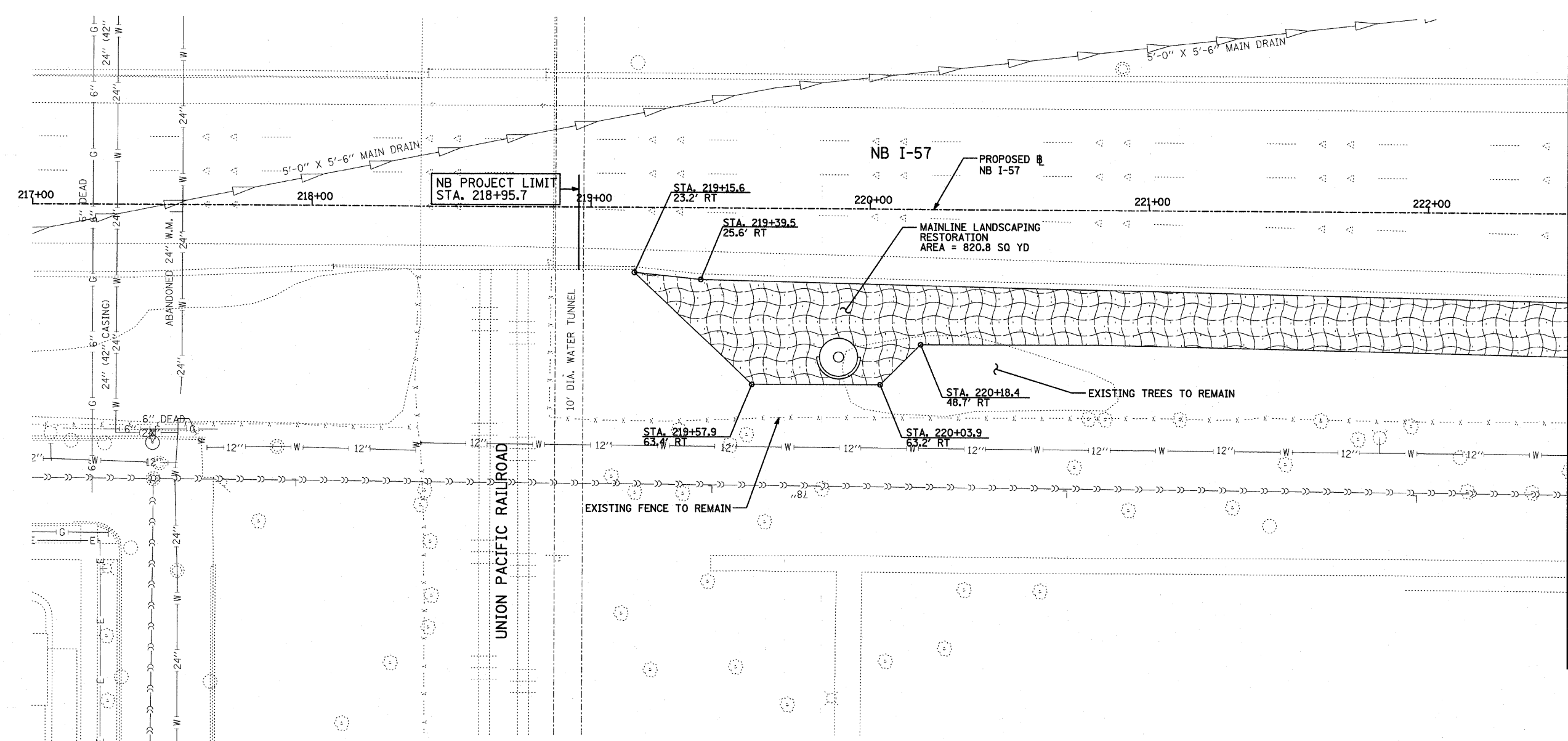
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
PROPOSED PLAN
EROSION CONTROL PLAN
 HMLT 6AMN2
 NB I-57
 STA. 217+00.00 TO STA. 222+50.00
 SCALE: 1"=20'
 DATE: JANUARY 16, 2009
 DRAWN BY: AMB
 CHECKED BY: TGB, MI

TYLIN INTERNATIONAL

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F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94 1516.1 I-9	COOK	59	19
STA. 217+38.11 (SB I-57) TO STA. 225+09.94 (SB I-57)			
STA. 218+95.72 (NB I-57)			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

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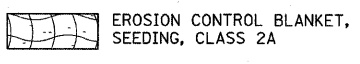


MATCHLINE STA. 222+50.00

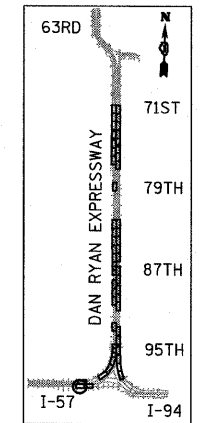
LANDSCAPING GENERAL PLAN NOTES:

1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
2. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE.
3. AREAS TO BE SEEDD BETWEEN NOVEMBER 1 AND APRIL 1 SHALL REQUIRE DORMANT SEEDING, WHICH SHALL BE INCLUDED IN THE COST OF SEEDING CLASS 2A.
4. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASSES 4, 4A (MODIFIED), 5, AND 5(A) MODIFIED SHALL BE FROM APRIL 15 TO JUNE 30 AND FROM OCTOBER 15 TO DECEMBER 1. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
6. LAYOUT OF LANDSCAPED AREAS WILL REQUIRE APPROVAL OF THE ENGINEER PRIOR TO TOPSOIL PLACEMENT, SEEDING, AND PLANTING.
7. THE CONTRACTOR SHALL PROTECT AND USE CAUTION DURING CONSTRUCTION OPERATIONS AROUND ALL EXISTING UTILITY FACILITIES.

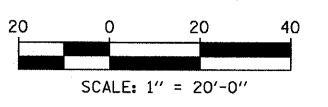
LEGEND:



* ADDITIONAL QUANTITIES FOR TOPSOIL FURNISH AND PLACE 12" AND COMPOST FURNISH AND PLACE, 6" HAVE BEEN PROVIDED FOR THE AREA AROUND THE HMLT SERVICE PAD. A RADIUS OF 20 FT FROM THE EDGE OF THE SERVICE PAD WAS USED TO CALCULATE THIS ADDITIONAL QUANTITY.



LOCATION MAP



SCALE: 1" = 20'-0"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
LANDSCAPING PLAN
 HMLT 6AMN2
 NB I-57
 STA. 217+00.00 TO STA. 222+50.00

SCALE: 1"=20'
 DATE: JANUARY 16, 2009

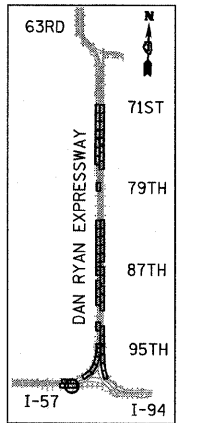
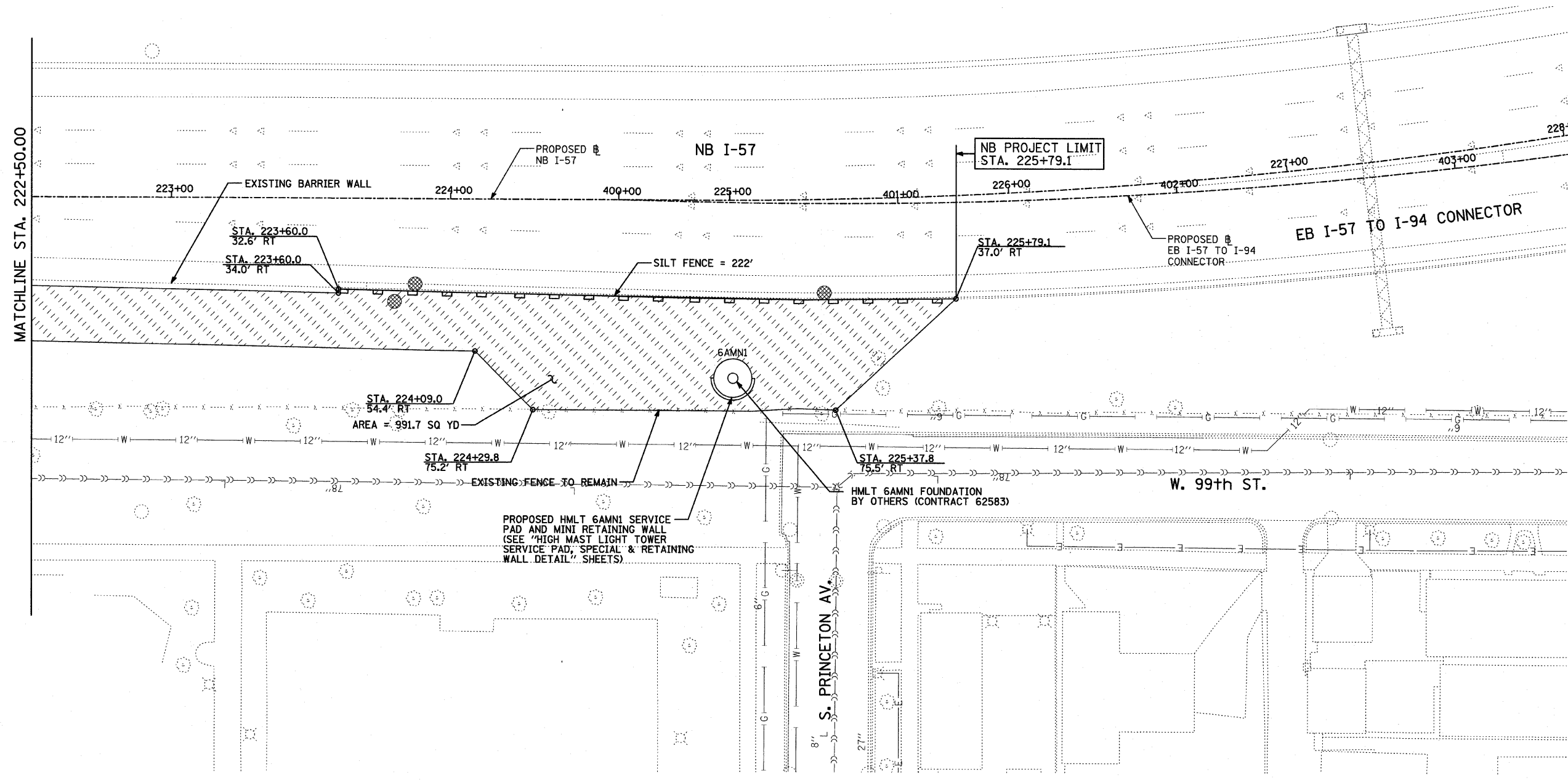
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TYLIN INTERNATIONAL

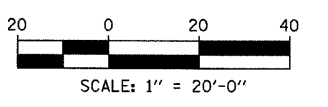
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	20
STA. 117+38.11 (SB I-57) TO STA. 225+79.12 (NB I-57)		154+09.94 (SB I-57) TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62977



LOCATION MAP



- LEGEND:**
- TEMPORARY EROSION CONTROL SEEDING
 - SEDIMENT CONTROL, SILT FENCE
 - INLET FILTER

REVISIONS	
NAME	DATE

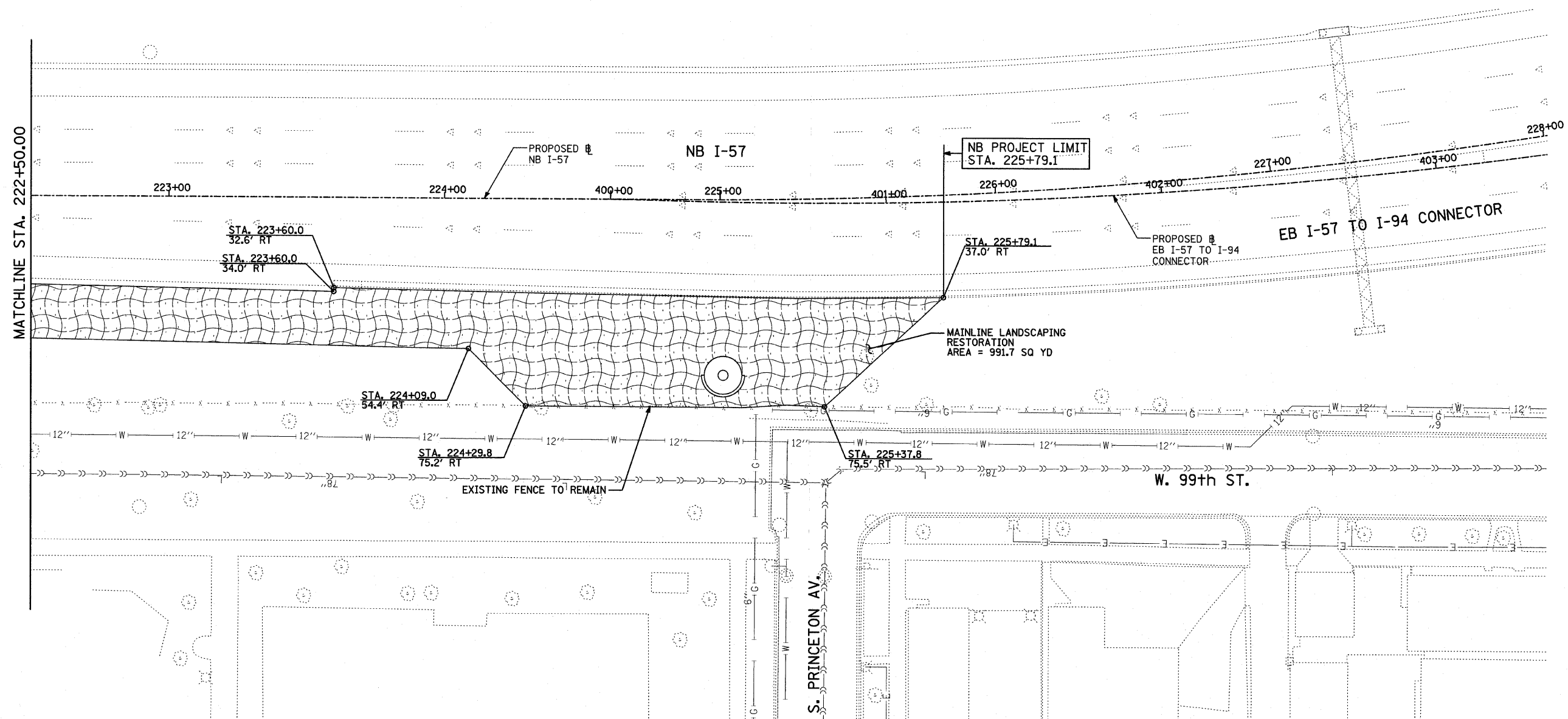
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 PROPOSED PLAN
 EROSION CONTROL PLAN
 HMLT 6AMN1
 NB I-57
 STA. 222+50.00 TO STA. 228+00.00
 SCALE: 1"=20'
 DATE: JANUARY 16, 2009
 DRAWN BY: AMB
 CHECKED BY: TGB, MI

TYLIN INTERNATIONAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	21
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)				
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT

62977

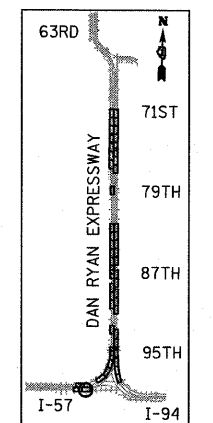


LANDSCAPING GENERAL PLAN NOTES:

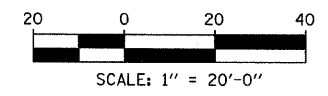
1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
2. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE.
3. AREAS TO BE SEEDDED BETWEEN NOVEMBER 1 AND APRIL 1 SHALL REQUIRE DORMANT SEEDING, WHICH SHALL BE INCLUDED IN THE COST OF SEEDING CLASS 2A.
4. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASSES 4, 4A (MODIFIED), 5, AND 5(A) MODIFIED SHALL BE FROM APRIL 15 TO JUNE 30 AND FROM OCTOBER 15 TO DECEMBER 1. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
6. LAYOUT OF LANDSCAPED AREAS WILL REQUIRE APPROVAL OF THE ENGINEER PRIOR TO TOPSOIL PLACEMENT, SEEDING, AND PLANTING.
7. THE CONTRACTOR SHALL PROTECT AND USE CAUTION DURING CONSTRUCTION OPERATIONS AROUND ALL EXISTING UTILITY FACILITIES.

LEGEND:

- EROSION CONTROL BLANKET, SEEDING, CLASS 2A
- ADDITIONAL QUANTITIES FOR TOPSOIL FURNISH AND PLACE 12" AND COMPOST FURNISH AND PLACE, 6" HAVE BEEN PROVIDED FOR THE AREA AROUND THE HMLT SERVICE PAD. A RADIUS OF 20 FT FROM THE EDGE OF THE SERVICE PAD WAS USED TO CALCULATE THIS ADDITIONAL QUANTITY.



LOCATION MAP



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
LANDSCAPING PLAN
HMLT 6AMN1
NB I-57
STA. 222+50.00 TO STA. 228+00.00

SCALE: 1"=20'
DATE: JANUARY 16, 2009

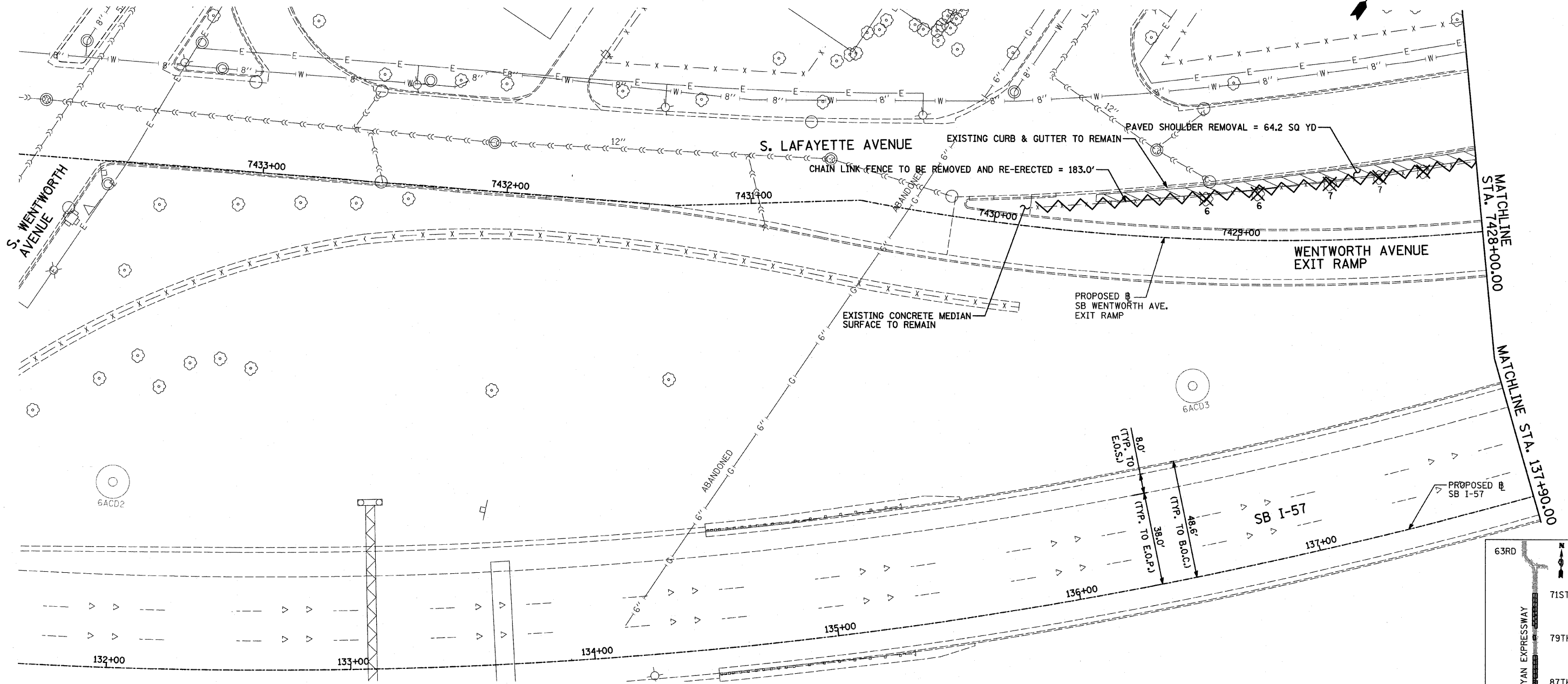
DRAWN BY: AMB
CHECKED BY: TGB, MI

TYLIN INTERNATIONAL

1/15/2009 10:45:28 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	22
117+36.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

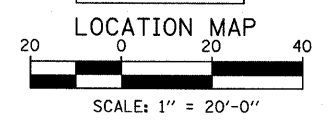
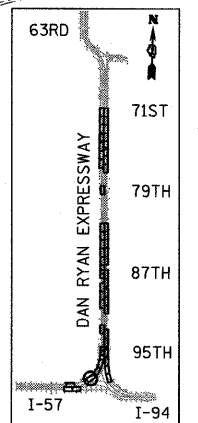
62977



LEGEND:

	PAVED SHOULDER REMOVAL
	CHAIN LINK FENCE REMOVAL
	CONCRETE BARRIER/GUARDRAIL REMOVAL
	TREE REMOVAL (UNITS) (NO UNIT SHOWN = <6)

NOTE:
 SIGNS SHALL BE RELOCATED AT A MINIMUM OF 3 FEET FROM THE FRONT FACE OF THE PROPOSED KNEE WALL. EXACT PLACEMENT SHALL BE DETERMINED BY THE ENGINEER. PAID FOR AS "RELOCATE EXISTING SIGN PANEL, SPECIAL".



TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
REMOVAL PLAN
 SB I-57
 STA. 131+63.00 TO STA. 137+90.00

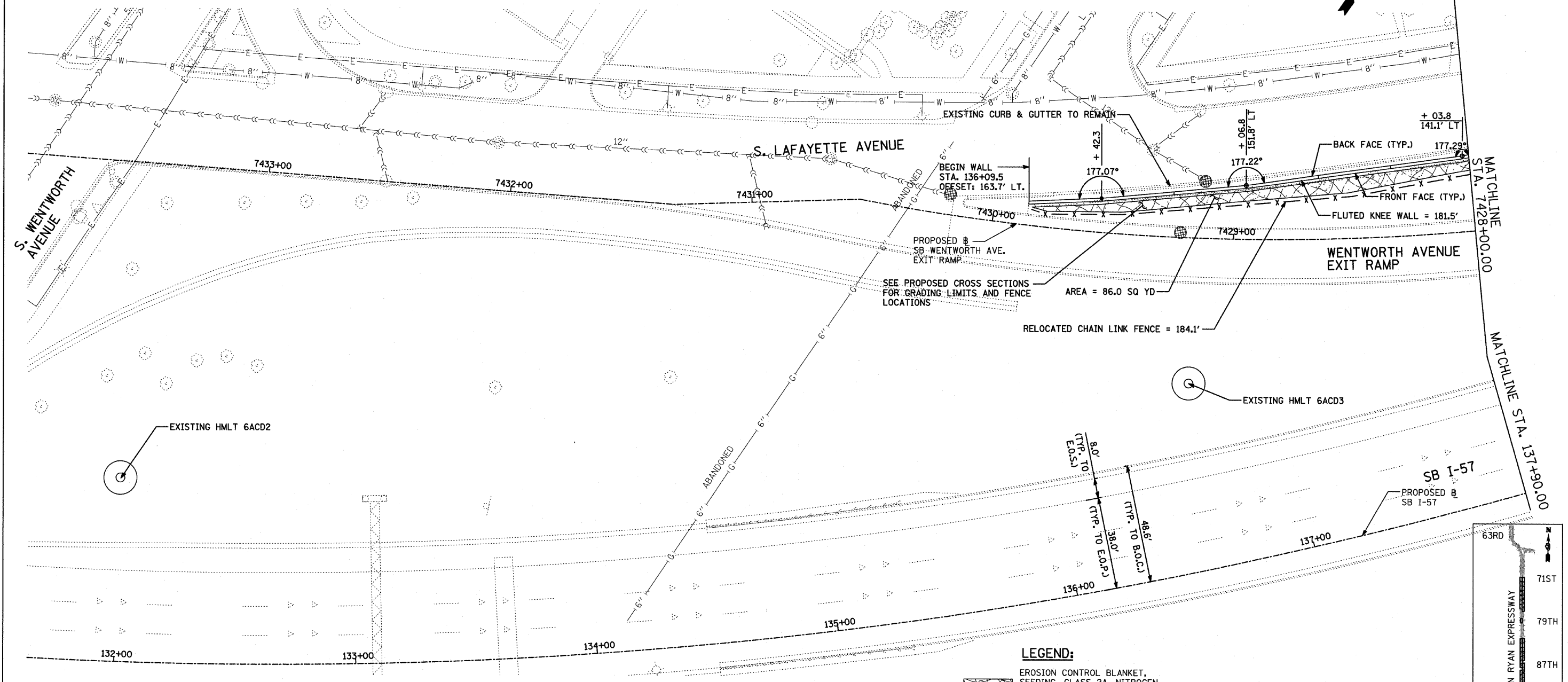
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 DATE: JANUARY 16, 2009

DRAWN BY: AMB, MAF
 CHECKED BY: TGB, MI

7/15/2009 10:56:02 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	23
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)		STA. 218+35.72 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62977

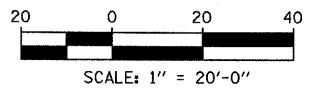
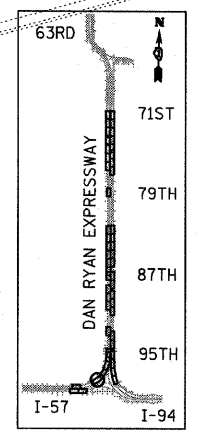


NOTES:

1. STATION OFFSET CALLOUTS ALONG THE LENGTH OF EITHER FLUTED KNEE WALL OR FLUTED KNEE WALL, SPECIAL ARE TAKEN FROM THE BACK FACE SIDE AT PROPOSED EXPANSION JOINT LOCATIONS.
2. THE CONTRACTOR SHALL PROTECT AND USE CAUTION DURING CONSTRUCTION OPERATIONS AROUND ALL EXISTING UTILITY FACILITIES.

LEGEND:

- EROSION CONTROL BLANKET, SEEDING, CLASS 2A, NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 4"
- EROSION CONTROL BLANKET, SEEDING, CLASS 5A (MODIFIED), NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6"
- EROSION CONTROL BLANKET, SEEDING, CLASS 4 (MODIFIED), NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6"
- INLET FILTER
- CONSTRUCTION JOINT AT FLUTED KNEE WALL BEND
- EXPANSION JOINT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
PROPOSED PLAN
SB I-57
STA. 131+63.00 TO STA. 137+90.00

SCALE: 1"=20'
DATE: JANUARY 16, 2009

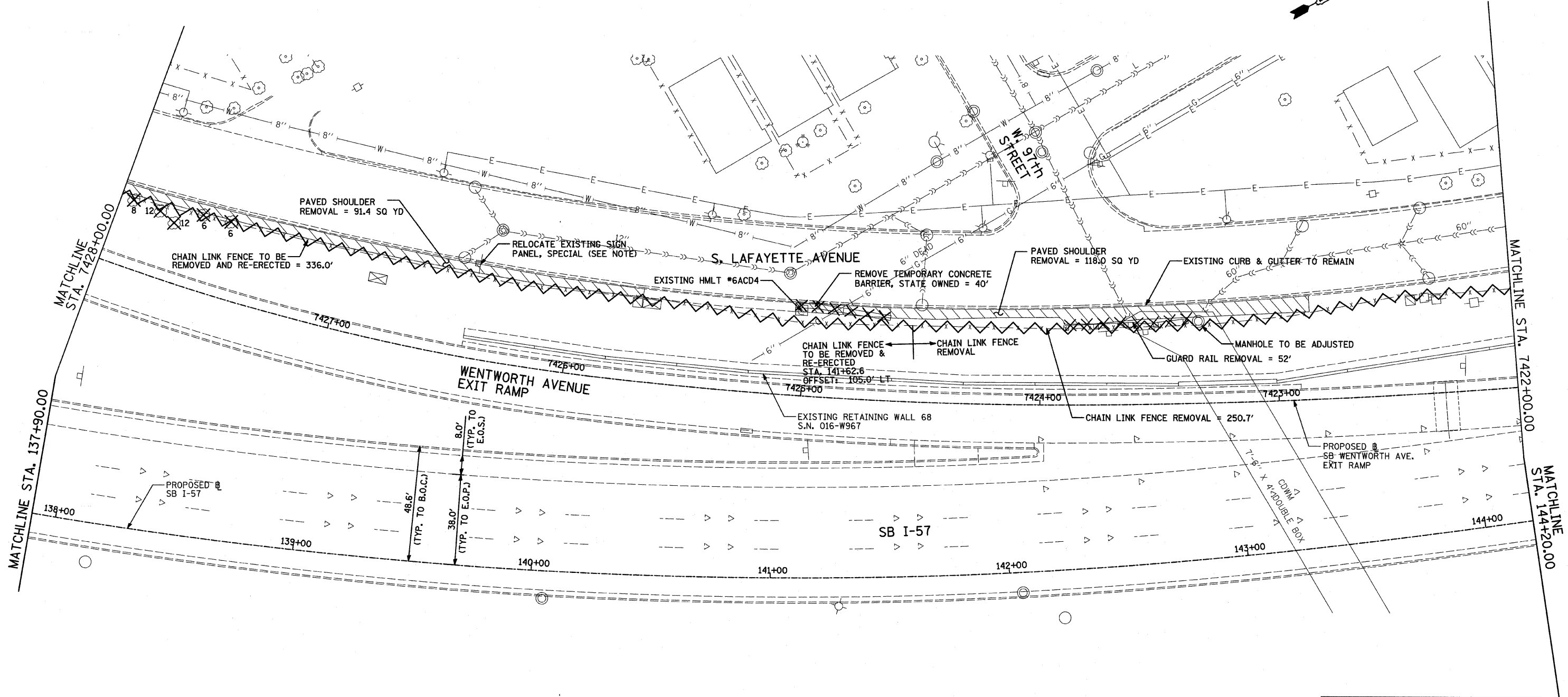
DRAWN BY: AMB, MAF
CHECKED BY: TGB, MI

TYLIN INTERNATIONAL

7/15/2009 10:15:09 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	24
STA. 117+38.11 (SB I-57) TO STA. 154+03.94 (SB I-57)				
STA. 210+35.72 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977

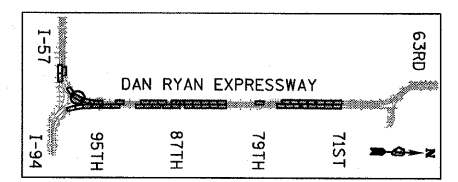
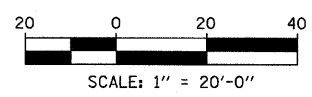


LEGEND:

- PAVED SHOULDER REMOVAL
- CHAIN LINK FENCE REMOVAL
- CONCRETE BARRIER/ GUARDRAIL REMOVAL
- TREE REMOVAL (UNITS) (NO UNIT SHOWN = <6)

NOTE:

SIGNS SHALL BE RELOCATED AT A MINIMUM OF 3 FEET FROM THE FRONT FACE OF THE PROPOSED KNEE WALL. EXACT PLACEMENT SHALL BE DETERMINED BY THE ENGINEER. PAID FOR AS "RELOCATE EXISTING SIGN PANEL, SPECIAL".



LOCATION MAP

TYLIN INTERNATIONAL

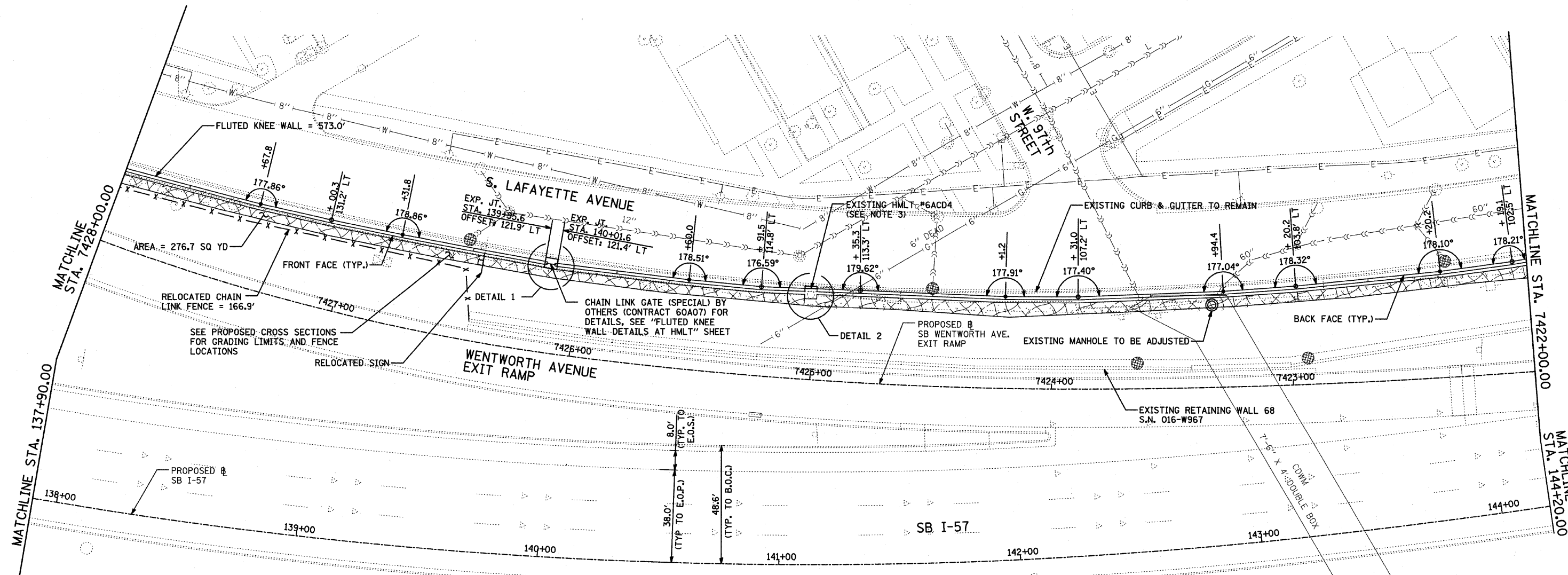
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
REMOVAL PLAN
SB I-57
STA. 137+90.00 TO 144+20.00

SCALE: 1"=20'
DATE: JANUARY 16, 2009

DRAWN BY: AMB, MAF
CHECKED BY: TGB, MI

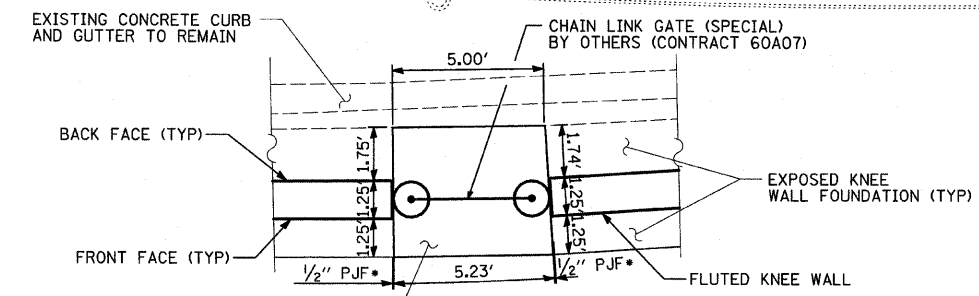
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LEGEND:

- EROSION CONTROL BLANKET, SEEDING, CLASS 2A, NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 4"
- EROSION CONTROL BLANKET, SEEDING, CLASS 2A, NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6"
- EROSION CONTROL BLANKET, SEEDING, CLASS 4 (MODIFIED), SEEDING, CLASS 5A (MODIFIED), TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6"
- INLET FILTER

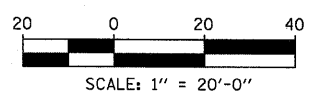
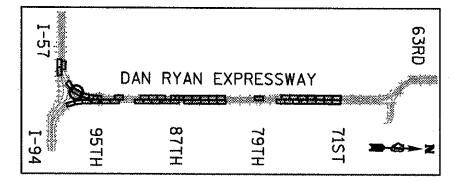
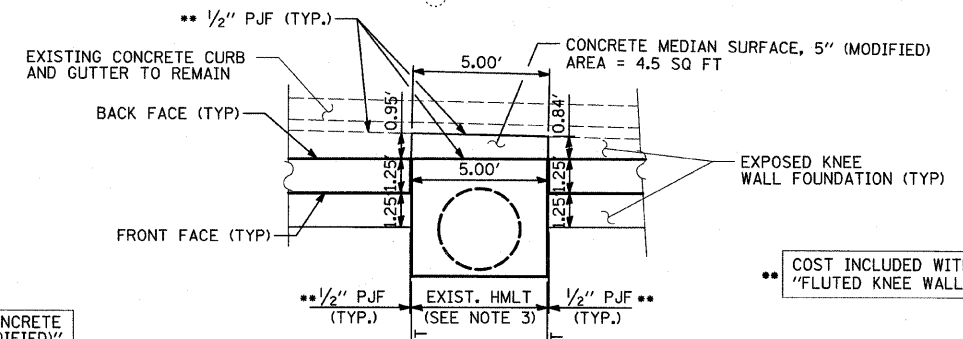
- CONSTRUCTION JOINT AT FLUTED KNEE WALL BEND
- EXPANSION JOINT



NOTES:

- STATION OFFSET CALLOUTS ALONG THE LENGTH OF EITHER FLUTED KNEE WALL OR FLUTED KNEE WALL, SPECIAL ARE TAKEN FROM THE BACK FACE SIDE AT PROPOSED EXPANSION JOINT LOCATIONS.
- THE CONTRACTOR SHALL PROTECT AND USE CAUTION DURING CONSTRUCTION OPERATIONS AROUND ALL EXISTING UTILITY FACILITIES.
- FOR DETAILS, SEE "FLUTED KNEE WALL AT HMLT" SHEET.

• COST INCLUDED WITH "CONCRETE MEDIAN SURFACE, 5" (MODIFIED)".



REVISIONS	
NAME	DATE

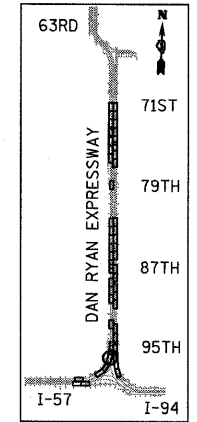
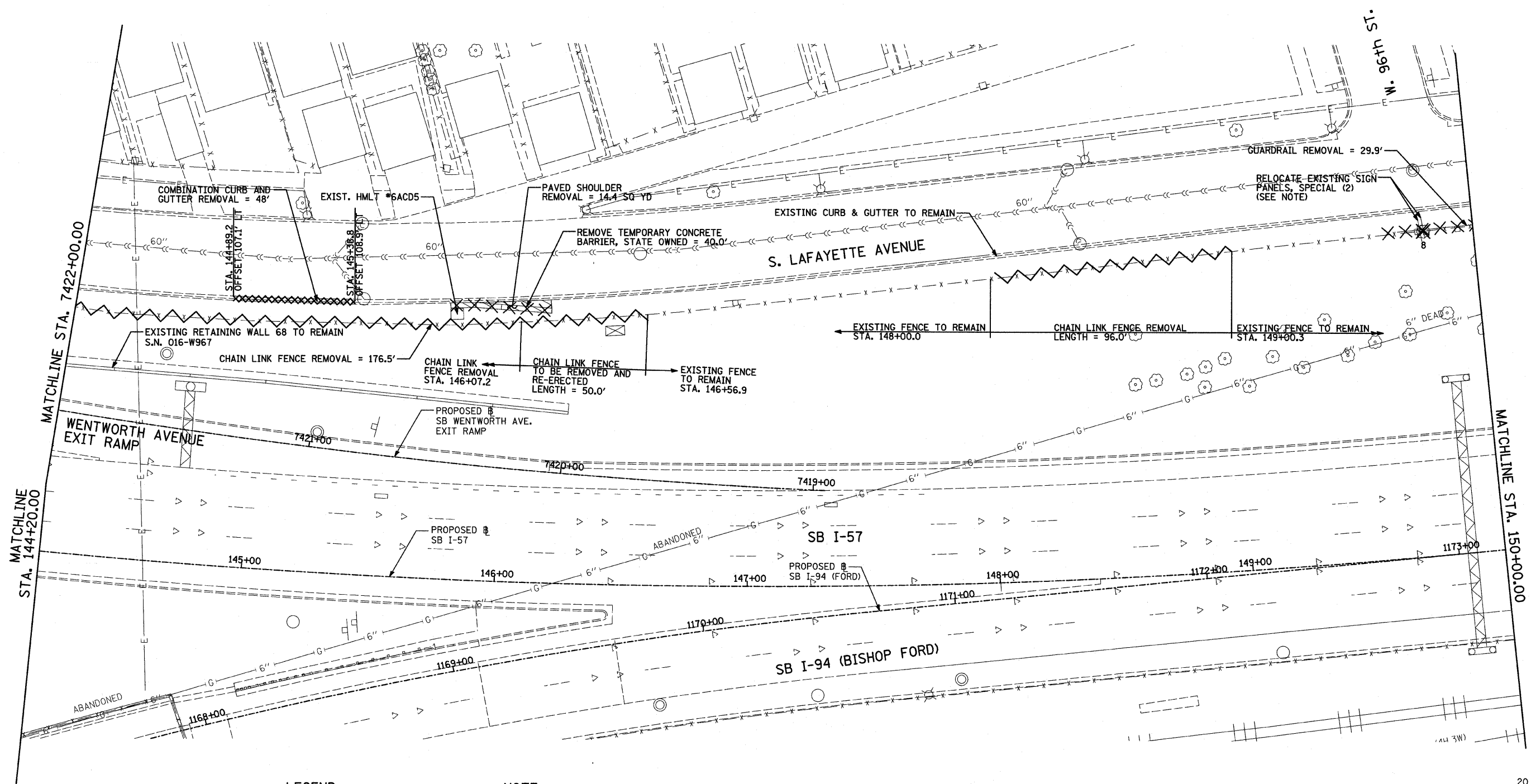
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
PROPOSED PLAN
 SB I-57
 STA. 137+90.00 TO 144+20.00

SCALE: 1"=20'
 DATE: JANUARY 16, 2009

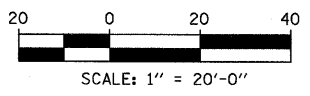
DRAWN BY: AMB, MAF
 CHECKED BY: TGB, MI

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	26
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+35.72 (NB I-57) TO STA. 225+73.12 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

62977



LOCATION MAP



LEGEND:

- PAVED SHOULDER REMOVAL
- CHAIN LINK FENCE REMOVAL
- CONCRETE BARRIER/GUARDRAIL REMOVAL
- TREE REMOVAL (UNITS) (NO UNIT SHOWN = <6)
- CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

NOTE:

SIGNS SHALL BE RELOCATED AT A MINIMUM OF 3 FEET FROM THE FRONT FACE OF THE PROPOSED KNEE WALL. EXACT PLACEMENT SHALL BE DETERMINED BY THE ENGINEER. PAID FOR AS "RELOCATE EXISTING SIGN PANEL, SPECIAL".

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
REMOVAL PLAN
SB I-57
STA. 144+20.00 TO 150+00.00

SCALE: 1"=20'
DATE: JANUARY 16, 2009

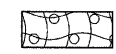





DRAWN BY: AMB, MAF
CHECKED BY: TGB, MI

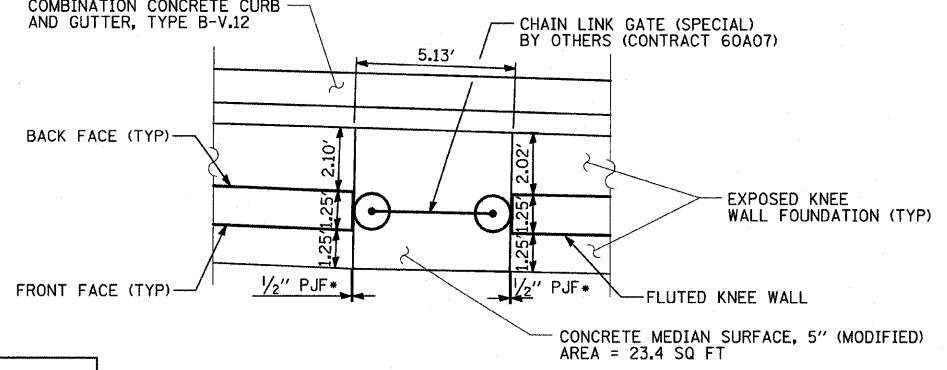
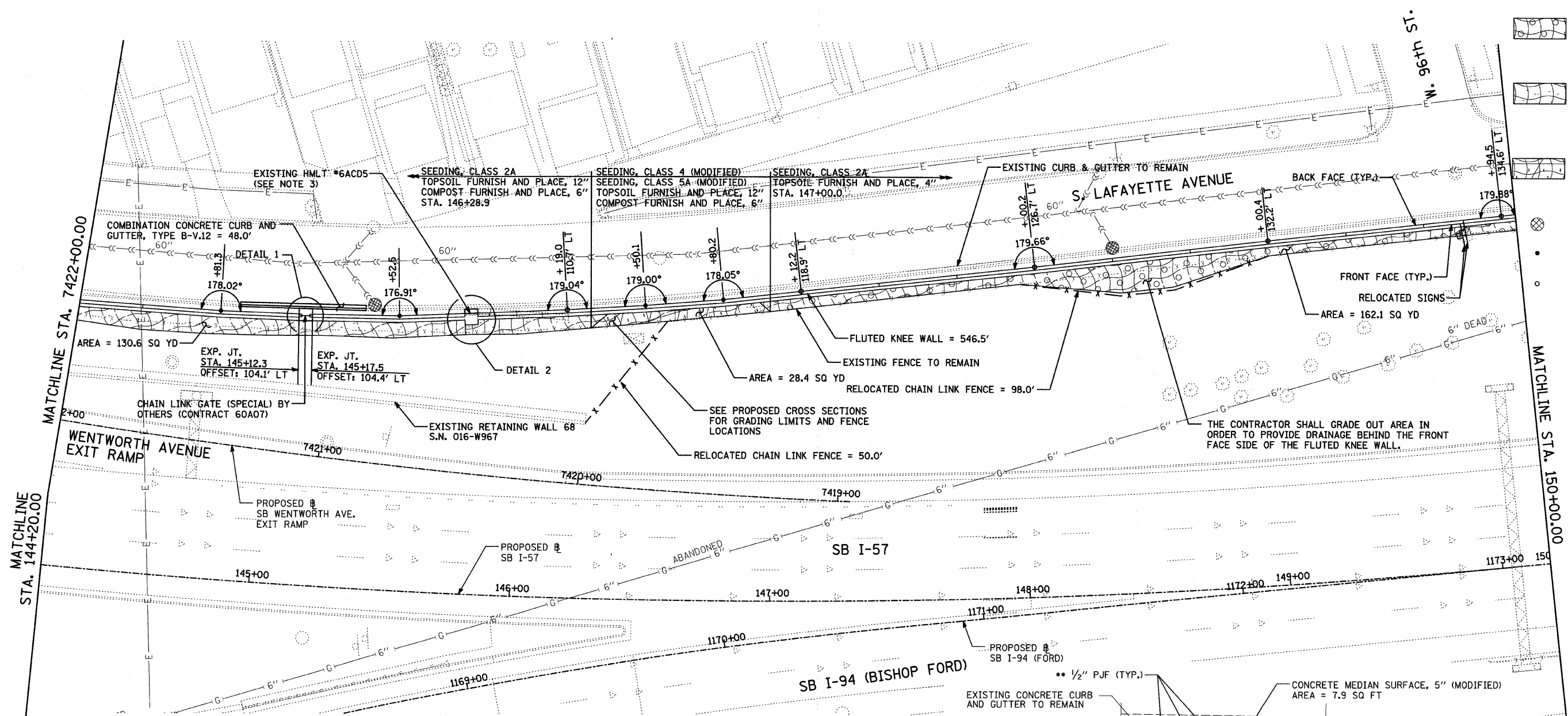
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	27
117+38.11 (SB I-57) TO STA. 154+00.94 (SB I-57)		STA. 218+96.72 (NB I-57) TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62977

LEGEND:

-  EROSION CONTROL BLANKET, SEEDING, CLASS 2A, NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 4"
-  EROSION CONTROL BLANKET, SEEDING, CLASS 2A, NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6"
-  EROSION CONTROL BLANKET, SEEDING, CLASS 4 (MODIFIED), TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6"
-  INLET FILTER
-  CONSTRUCTION JOINT AT FLUTED KNEE WALL BEND
-  EXPANSION JOINT



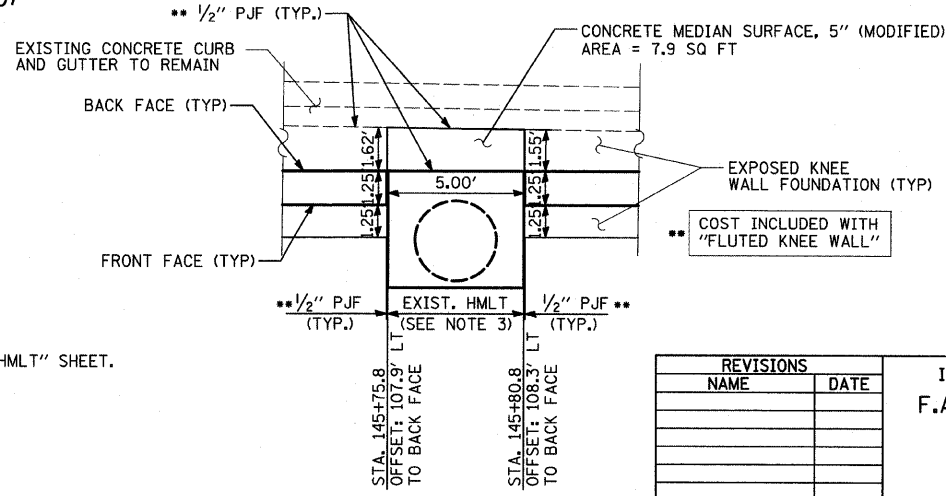
DETAIL 1

-THE ANGLE BETWEEN SECTIONS OF THE FLUTED KNEE WALL ADJACENT TO THE GATE IS 178.63°

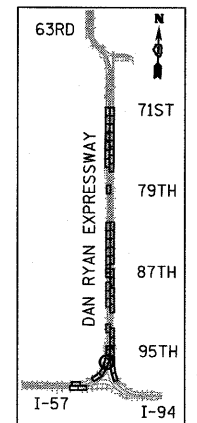
* COST INCLUDED WITH "CONCRETE MEDIAN SURFACE, 5" (MODIFIED)".

NOTES:

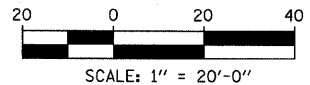
1. STATION OFFSET CALLOUTS ALONG THE LENGTH OF EITHER FLUTED KNEE WALL OR FLUTED KNEE WALL, SPECIAL ARE TAKEN FROM THE BACK FACE SIDE AT PROPOSED EXPANSION JOINT LOCATIONS.
2. THE CONTRACTOR SHALL PROTECT AND USE CAUTION DURING CONSTRUCTION OPERATIONS AROUND ALL EXISTING UTILITY FACILITIES.
3. FOR DETAILS, SEE "FLUTED KNEE WALL AT HMLT" SHEET.



DETAIL 2



LOCATION MAP



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
PROPOSED PLAN
SB I-57
STA. 144+20.00 TO 150+00.00

SCALE: 1"=20'
DATE: JANUARY 16, 2009

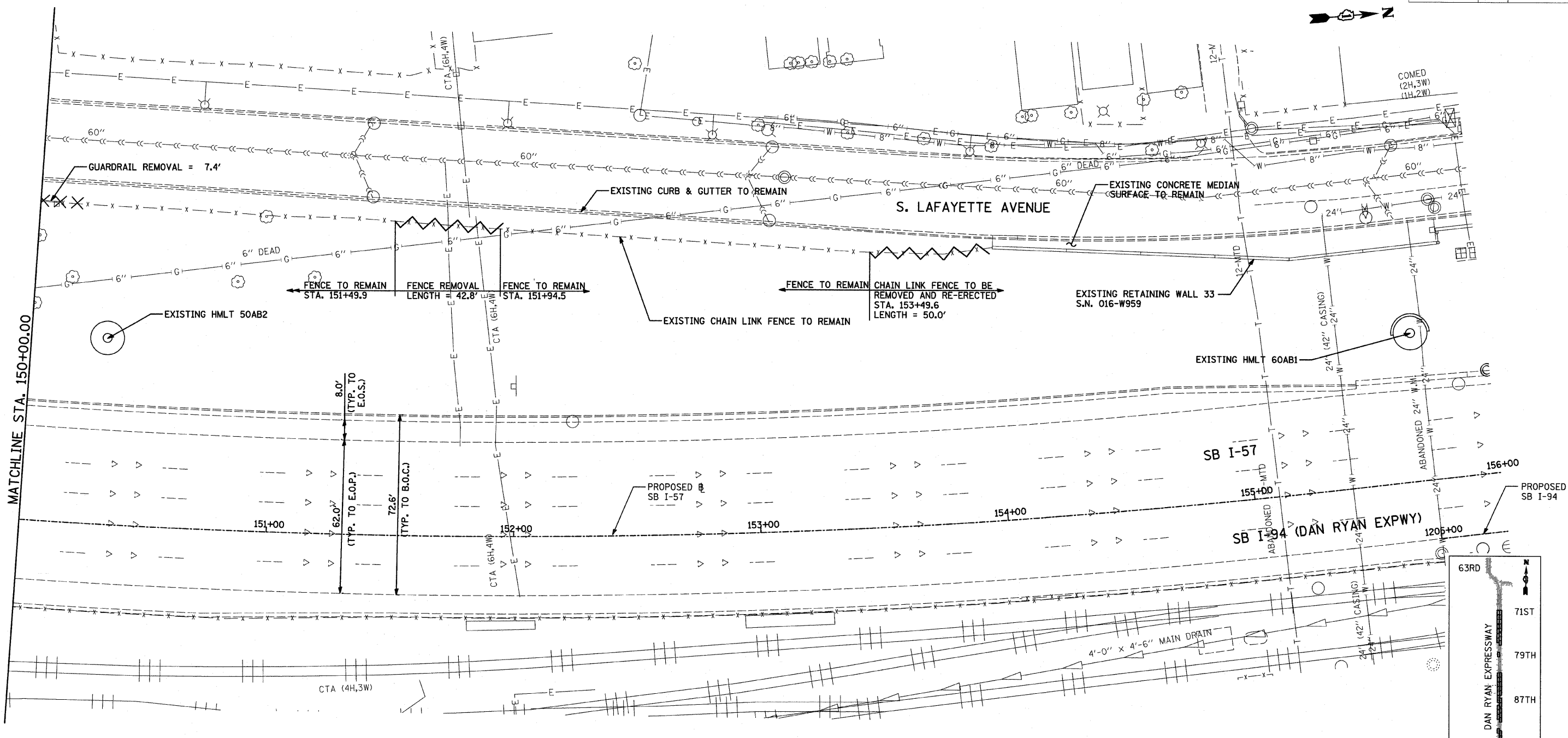
DRAWN BY: AMB, MAF
CHECKED BY: TGB, MI

TYLIN INTERNATIONAL

1/15/2009 10:45:34 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	28
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+95.72 (NB I-57)				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

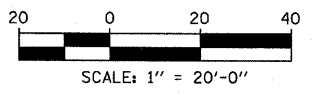
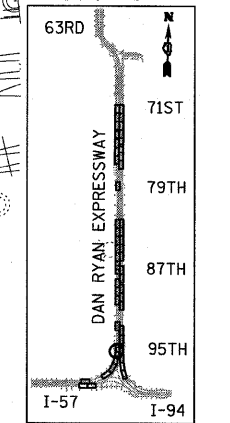
62977



LEGEND:

	PAVED SHOULDER REMOVAL
	CHAIN LINK FENCE REMOVAL
	CONCRETE BARRIER/GUARDRAIL REMOVAL
	TREE REMOVAL (UNITS) (NO UNIT SHOWN = <6)

NOTE:
 SIGNS SHALL BE RELOCATED AT A MINIMUM OF 3 FEET FROM THE FRONT FACE OF THE PROPOSED KNEE WALL. EXACT PLACEMENT SHALL BE DETERMINED BY THE ENGINEER. PAID FOR AS "RELOCATE EXISTING SIGN PANEL, SPECIAL".



REVISIONS

NAME	DATE

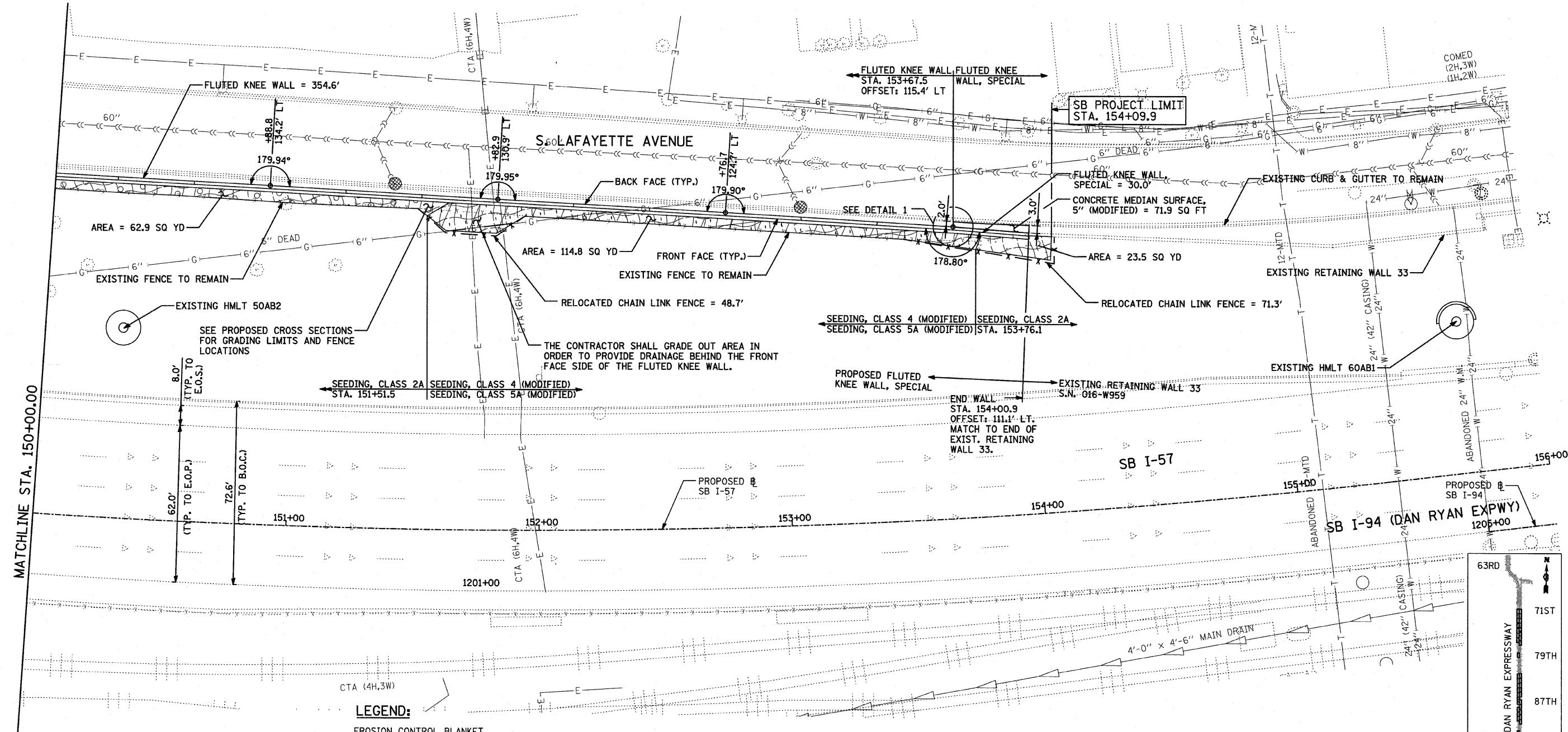
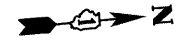
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 REMOVAL PLAN
 SB I-57
 STA. 150+00.00 TO 156+00.00

SCALE: 1"=20'
 DATE: JANUARY 16, 2009

DRAWN BY: AMB, MAF
 CHECKED BY: TGB, MI

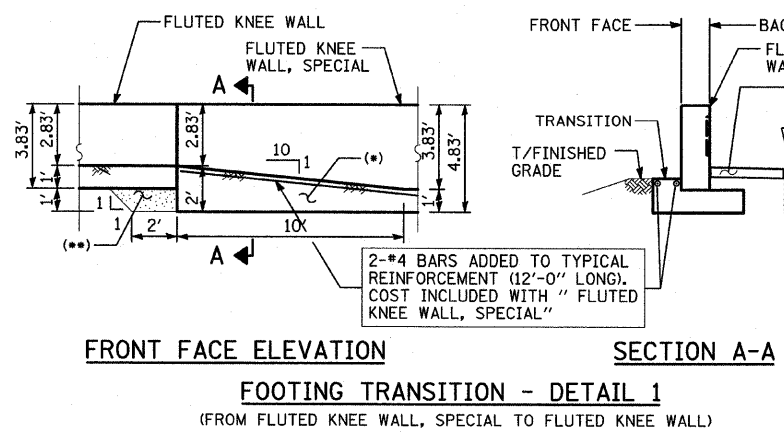
TYLIN INTERNATIONAL

1/15/2009 10:51:05 AM



- NOTES:**
- STATION OFFSET CALLOUTS ALONG THE LENGTH OF EITHER FLUTED KNEE WALL OR FLUTED KNEE WALL, SPECIAL ARE TAKEN FROM THE BACK FACE SIDE AT PROPOSED EXPANSION JOINT LOCATIONS.
 - THE CONTRACTOR SHALL PROTECT AND USE CAUTION DURING CONSTRUCTION OPERATIONS AROUND ALL EXISTING UTILITY FACILITIES.

- LEGEND:**
- EROSION CONTROL BLANKET, SEEDING, CLASS 2A, NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 4"
 - EROSION CONTROL BLANKET, SEEDING, CLASS 2A, NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS, TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6"
 - EROSION CONTROL BLANKET, SEEDING, CLASS 4 (MODIFIED), SEEDING, CLASS 5A (MODIFIED), TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6"
 - INLET FILTER
 - CONSTRUCTION JOINT AT FLUTED KNEE WALL BEND
 - EXPANSION JOINT



- ADDITIONAL CONCRETE AT FOOTING TRANSITION. COST INCLUDED WITH "FLUTED KNEE WALL, SPECIAL"
- CA-6 AGGREGATE FILL. COST INCLUDED WITH "FLUTED KNEE WALL"

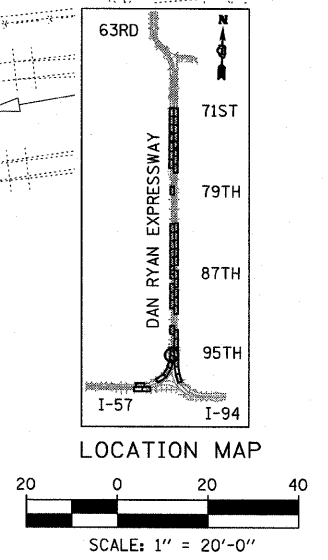
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
PROPOSED PLAN
SB I-57
STA. 150+00.00 TO 156+00.00

SCALE: 1"=20'
 DATE: JANUARY 16, 2009

DRAWN BY: AMB, MAF
 CHECKED BY: TGB, MI

TYLIN INTERNATIONAL



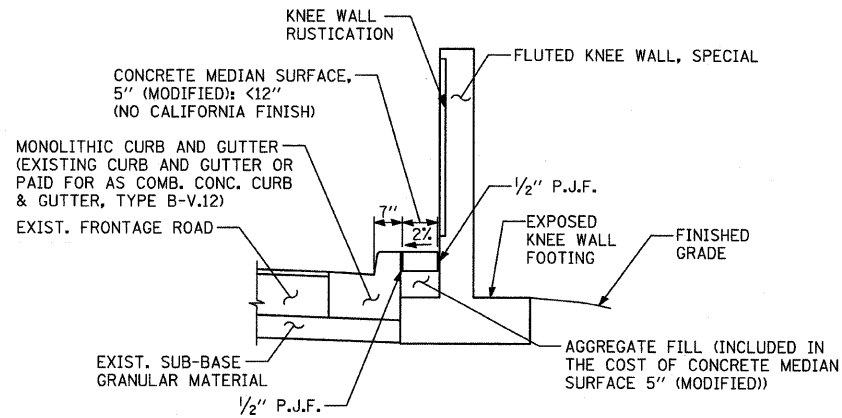
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	30
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+25.72 (NB I-57)				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62977	

NOTE:
THIS OPTION SHALL BE USED WHEN THE CARRIAGE WALK AREA MEASURES LESS THAN 12" IN WIDTH

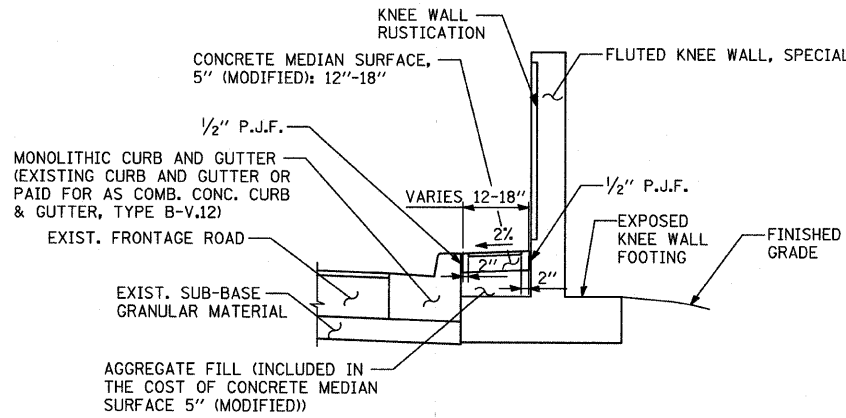
NOTE:
THIS OPTION SHALL BE USED WHEN THE CARRIAGE WALK AREA MEASURES 12" TO 18" IN WIDTH

NOTE:
THIS OPTION SHALL BE USED WHEN THE CARRIAGE WALK AREA MEASURES 18" OR GREATER IN WIDTH

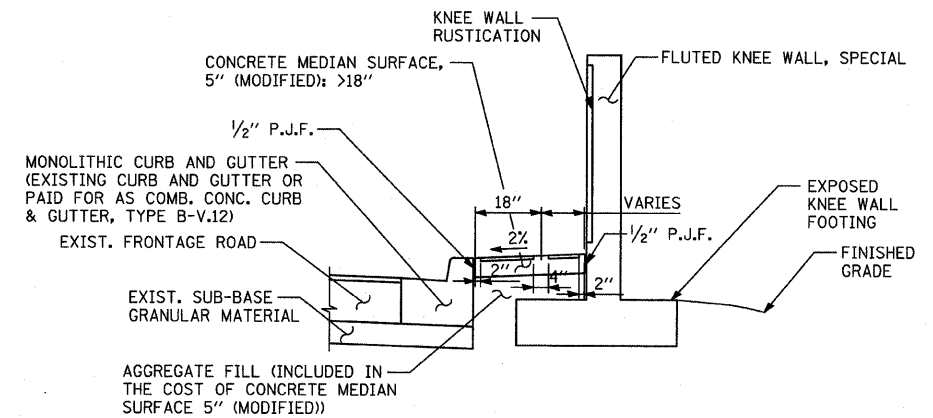
VARIES PANEL:
• IF THE WIDTH IS $\geq 4"$ THEN APPLY BROOM FINISH FLUSH TO THE KNEE WALL WITH 4" CALIFORNIA JOINT
• IF THE WIDTH IS $< 4"$ THEN SURFACE TO BE HARD TROWELLED (SEE DETAIL A)



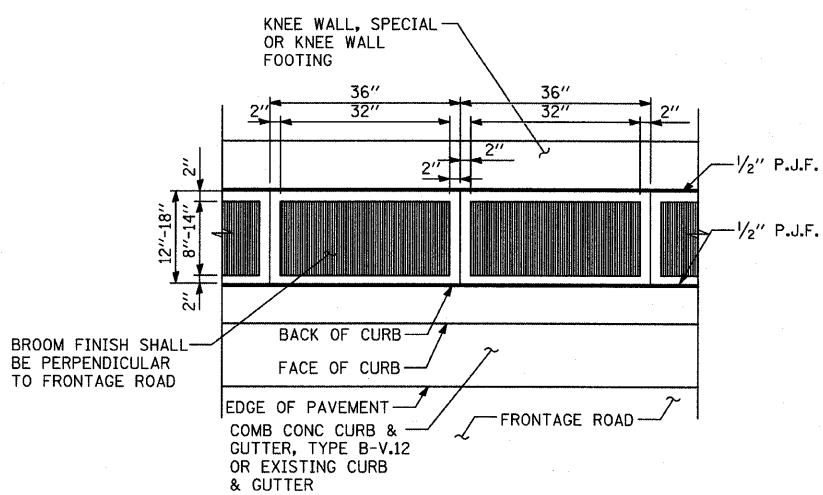
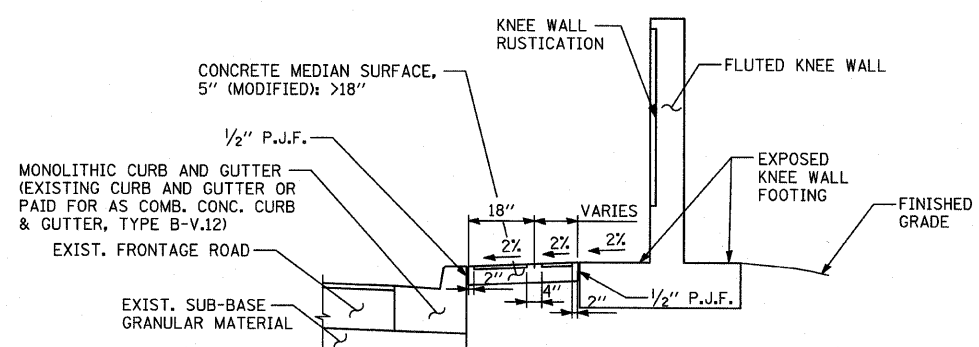
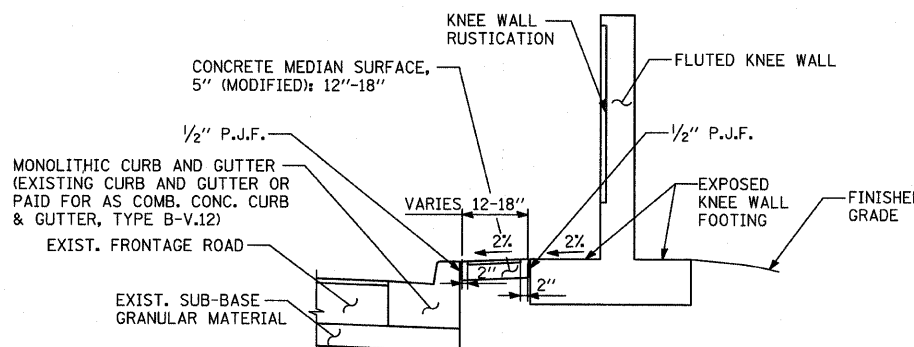
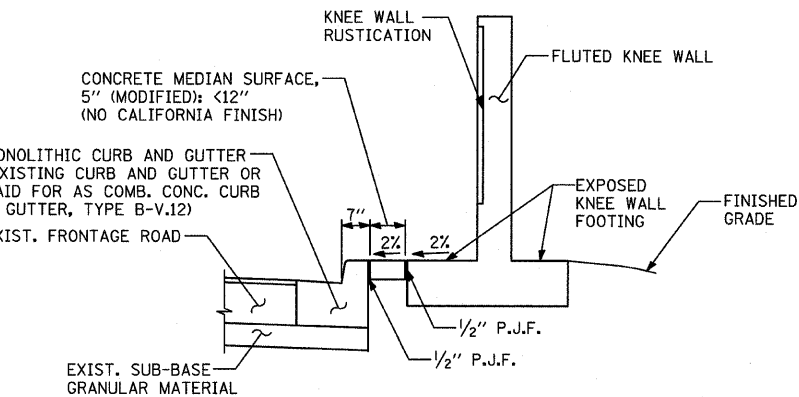
CONCRETE MEDIAN SURFACE, 5" (MODIFIED) "A"
AREA <12" WIDE



CONCRETE MEDIAN SURFACE, 5" (MODIFIED) "B"
AREA 12"-18" WIDE

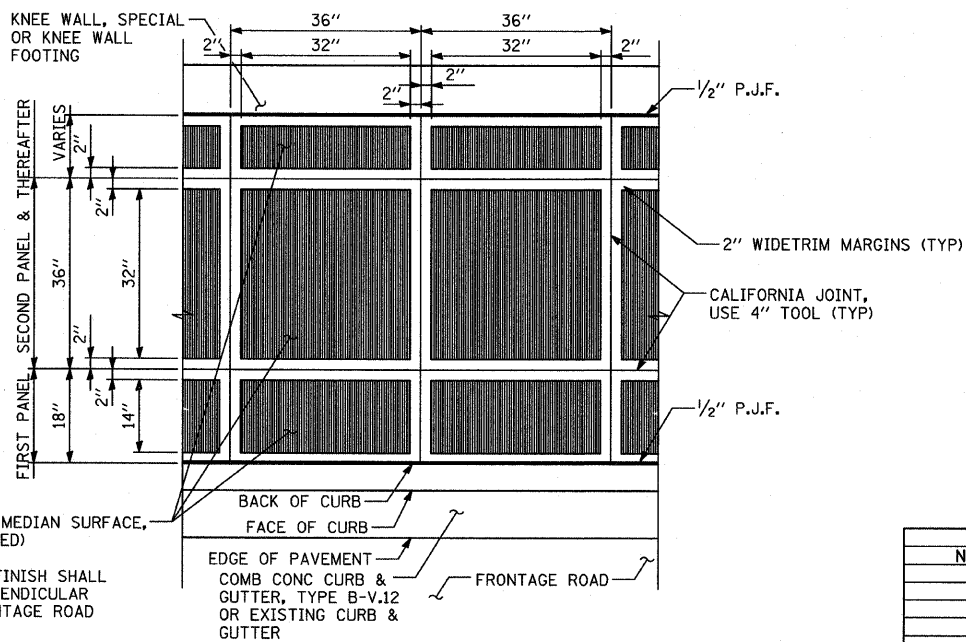


CONCRETE MEDIAN SURFACE, 5" (MODIFIED) "C"
AREA >18" WIDE



DETAIL "B": COORDINATE WITH CONC. MED. SURFACE, 5" (MODIFIED) "B"
CALIFORNIA FINISH

VARIES PANEL:
• IF THE WIDTH IS $\geq 4"$ THEN APPLY BROOM FINISH FLUSH TO THE KNEE WALL FACE WITH 4" CALIFORNIA JOINT
• IF THE WIDTH IS $< 4"$ THEN SURFACE TO BE HARD TROWELLED



DETAIL "A": COORDINATE WITH CONC. MED. SURFACE, 5" (MODIFIED) "C"
CALIFORNIA FINISH

NOTE:
NOT ALL ITEMS SHOWN ON THIS SHEET ARE PROPOSED. SEE PLANS FOR PROPOSED ITEMS.

REVISIONS	
NAME	DATE

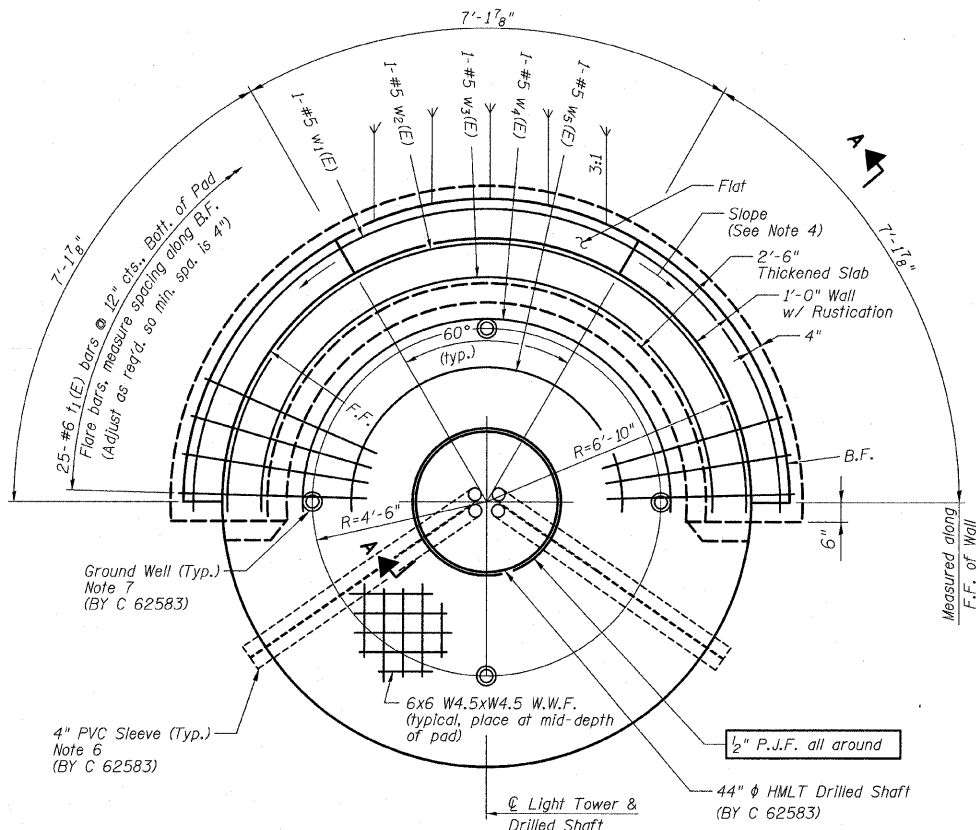
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
CONCRETE MEDIAN SURFACE, 5" (MODIFIED) WITH CALIFORNIA FINISH DETAIL

SCALE: NONE
DATE: JANUARY 16, 2009
DRAWN BY: MPG
CHECKED BY: JPM

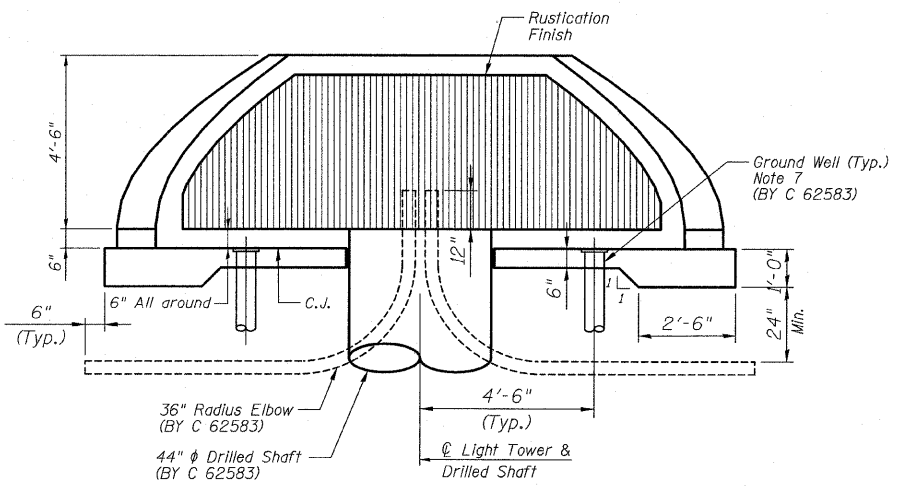
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	31
STA. 117+38.11 (SB I-57) TO STA. 154+08.94 (SB I-57)			STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

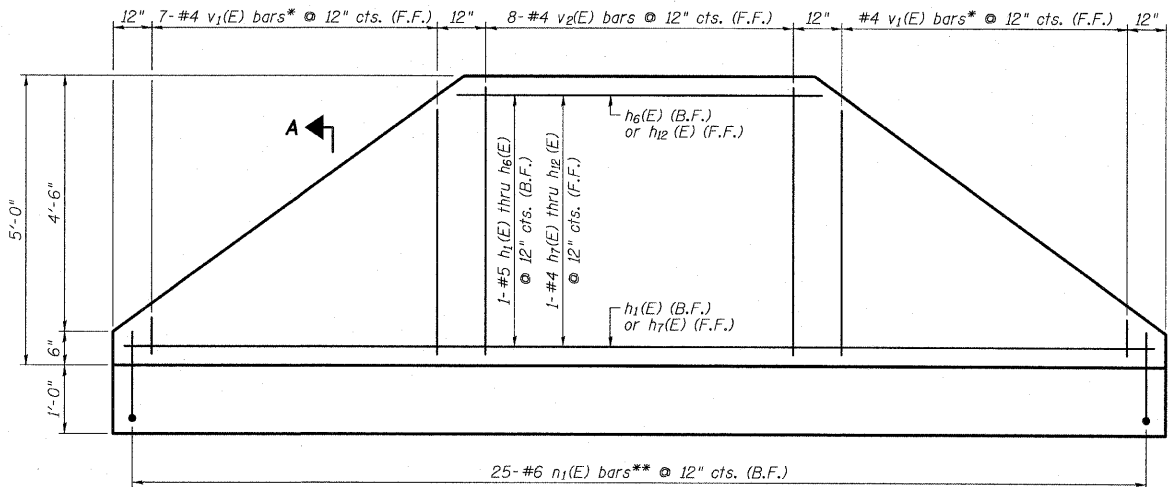
62977



PLAN VIEW
Place Bars w₁(E) thru w₅(E) @ 12" cts., Bott. of Pad



ELEVATION VIEW
(HMLT not shown for clarity)



5'-0" RETAINING WALL ELEVATION (PROJECTED)
(Looking at F.F.)

- NOTES**
1. F.F. and B.F. denote Front Face and Back Face, respectively.
 2. HMLT denotes High Mast Light Tower.
 3. Refer to HMLT Service Pad, Special & Retaining Wall Details 2 for Bar Bending Diagrams, Bill of Material, Bar Sections and Details.
 4. T/Wall slope is constant along the arc of any given radius.
 5. Place horizontal tails of n₁(E) bars radially.
 6. PVC sleeves must be extended 6 inches by Contract 62583 beyond the edge of the concrete pad.
 7. Ground wells 4'-6" as measured from centerline of the HMLT to centerline of the well to be installed by Contract 62583. Adjust service pad reinforcement to miss wells. Any necessary vertical adjustments will be performed by the contractor who installed the ground wells at the specific location.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
**HIGH MAST LIGHT TOWER SERVICE PAD,
 SPECIAL & RETAINING WALL DETAILS 1**

S.N. DESIGNED BY: MAF
 SCALE: N.T.S. DRAWN BY: MAF
 DATE: JANUARY 16, 2009 CHECKED BY: MI

TYLIN INTERNATIONAL

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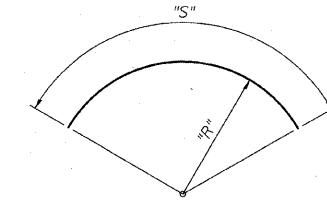
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	32
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)		STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62977

BILL OF MATERIAL

Light Tower Service Pad, Special with 5'-0" Wall (Note 4)

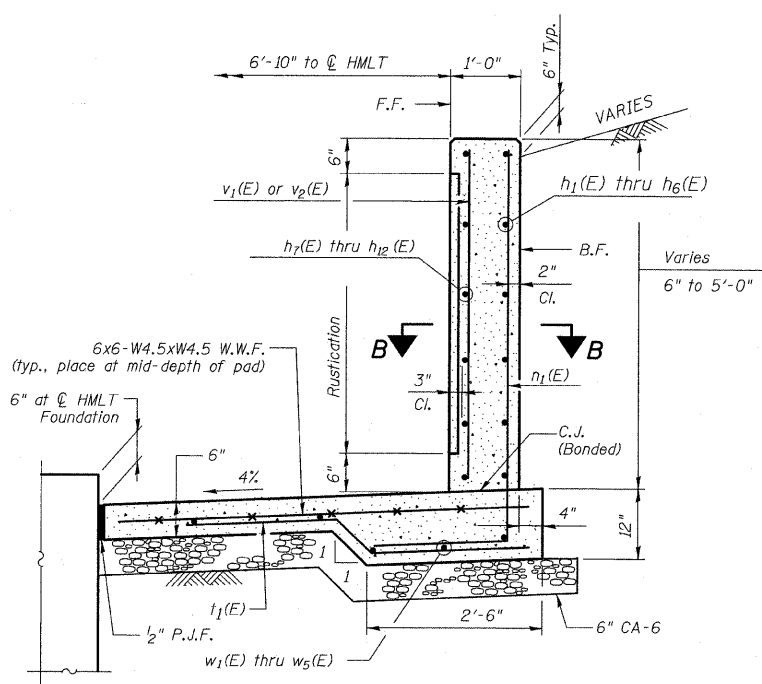
Bar	No.	Size	Length	Shape
h ₁ (E)	1	#5	23'-6"	⤴
h ₂ (E)	1	#5	20'-10"	⤴
h ₃ (E)	1	#5	17'-8"	⤴
h ₄ (E)	1	#5	14'-6"	⤴
h ₅ (E)	1	#5	11'-4"	⤴
h ₆ (E)	1	#5	8'-2"	⤴
h ₇ (E)	1	#4	22'-1"	⤴
h ₈ (E)	1	#4	19'-7"	⤴
h ₉ (E)	1	#4	16'-7"	⤴
h ₁₀ (E)	1	#4	13'-7"	⤴
h ₁₁ (E)	1	#4	10'-8"	⤴
h ₁₂ (E)	1	#4	7'-8"	⤴
n ₁ (E)	25	#6	7'-4"	⤴
t ₁ (E)	25	#6	5'-1"	⤴
v ₁ (E)	7	#4	5'-0"	⤴
v ₂ (E)	8	#4	4'-8"	⤴
w ₁ (E)	1	#5	24'-4"	⤴
w ₂ (E)	1	#5	21'-7"	⤴
w ₃ (E)	1	#5	18'-10"	⤴
w ₄ (E)	1	#5	15'-5"	⤴
w ₅ (E)	1	#5	11'-6"	⤴



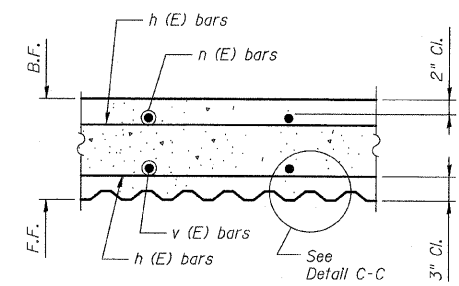
Bar	"R"	"S"
h ₁ (E)	7'-7"	23'-6"
h ₂ (E)	7'-7"	20'-10"
h ₃ (E)	7'-7"	17'-8"
h ₄ (E)	7'-7"	14'-6"
h ₅ (E)	7'-7"	11'-4"
h ₆ (E)	7'-7"	8'-2"
h ₇ (E)	7'-1 1/2"	22'-1"
h ₈ (E)	7'-1 1/2"	19'-7"
h ₉ (E)	7'-1 1/2"	16'-7"
h ₁₀ (E)	7'-1 1/2"	13'-7"
h ₁₁ (E)	7'-1 1/2"	10'-8"
h ₁₂ (E)	7'-1 1/2"	7'-8"
w ₁ (E)	7'-7"	24'-4"
w ₂ (E)	6'-8"	21'-7"
w ₃ (E)	5'-10"	18'-10"
w ₄ (E)	4'-9"	15'-5"
w ₅ (E)	3'-6"	11'-6"

Note: "R" and "S" measured along bar ϕ

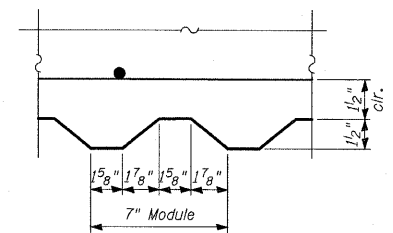
BARS w₁(E) thru w₅(E) & h₁(E) thru h₁₂(E)



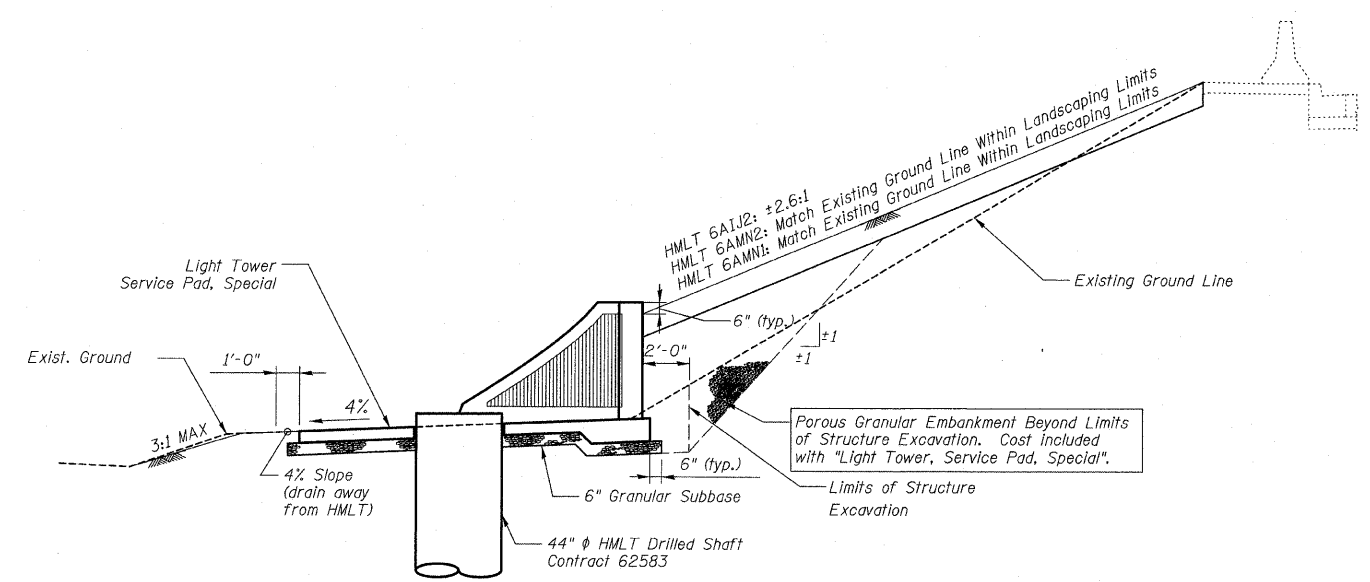
SECTION A-A



SECTION B-B

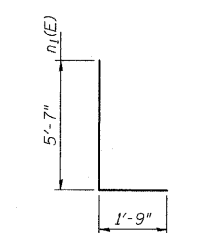


DETAIL C-C

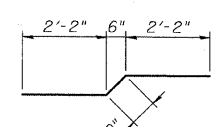


SECTION THRU EMBANKMENT

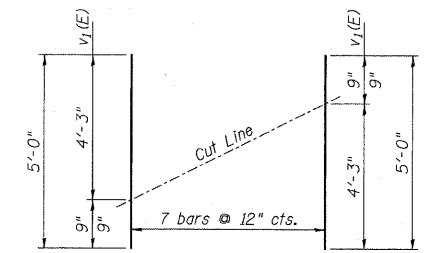
(At Typ. Tower Location)
HMLT not shown for clarity



BARS n₁(E)



BAR t₁(E)



Order v₁(E) bars full length and cut to fit as shown. Use remainder of bars as indicated on plans.

*** CUTTING DIAGRAM**

Bars v₁(E)

NOTES

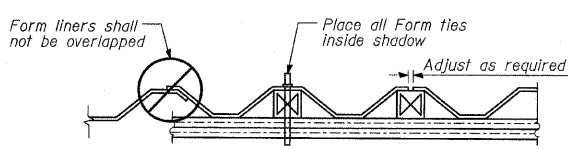
1. F.F. and B.F. denote Front Face and Back Face, respectively.
2. HMLT denotes High Mast Light Tower.
3. See IDOT Standard Drawing BE501 for additional High Mast Light Tower foundation and ground well details.
4. Reinforcement Bars designated (E) shall be epoxy coated.
5. Refer to High Mast Light Tower Service Pad, Special & Retaining Wall Details 1 for location and orientation of conduit sleeves and grounding wells.
6. Contractor shall maintain integrity of Frontage Roads as may be required in excavating for HMLT service pad walls.
7. Provide Protective Coat to top, front face, exposed portion of back face, and ends of walls, and top and edges of pad.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Light Tower, Service Pad, Special	Each	3

BILL OF MATERIAL
(Per HMLT)

Item	Unit	Total
Welded Wire Fabric	Sq. Yd.	18
Structure Excavation	Cu. Yd.	11
Concrete Structures	Cu. Yd.	7.2
Reinforcement Bars, Epoxy Coated	Pound	775
Rustication Finish	Sq. Ft.	55
Protective Coat	Sq. Yd.	29
Sub-Base Granular Material, Type B 6"	Sq. Yd.	22
Porous Granular Embankment	Cu. Yd.	48



SUGGESTED FORMWORK DETAIL

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
HIGH MAST LIGHT TOWER SERVICE PAD,
SPECIAL & RETAINING WALL DETAILS 2

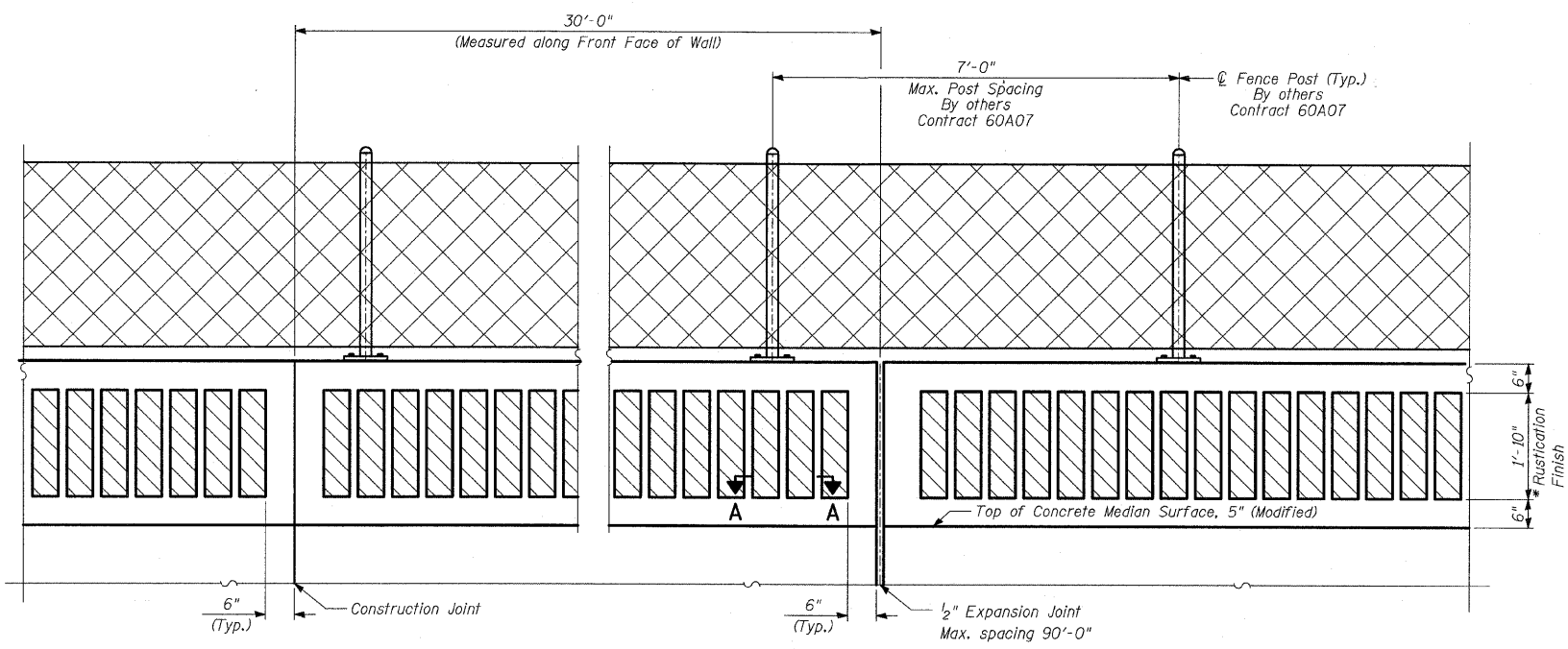
DESIGNED BY: MAF
DRAWN BY: MAF, TB
CHECKED BY: MI

SCALE: N.T.S.
DATE: JANUARY 16, 2009

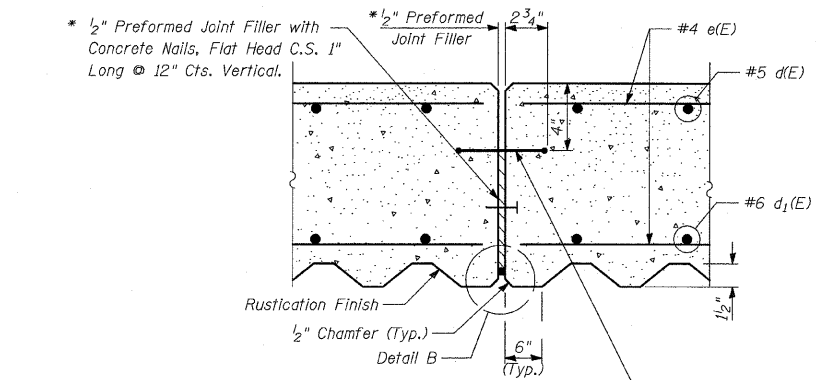
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	34
117+36.11 (SB I-57) TO STA. 154+00.94 (SB I-57)		STA. 218+95.72 (NB I-57) TO STA. 225+19.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

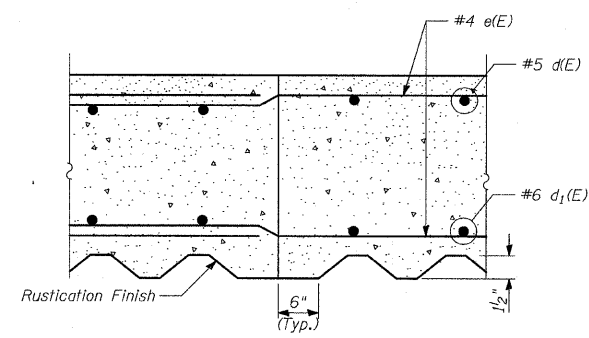
62977



BACK FACE ELEVATION - FLUTED KNEE WALL, SPECIAL AND CHAIN LINK FENCE



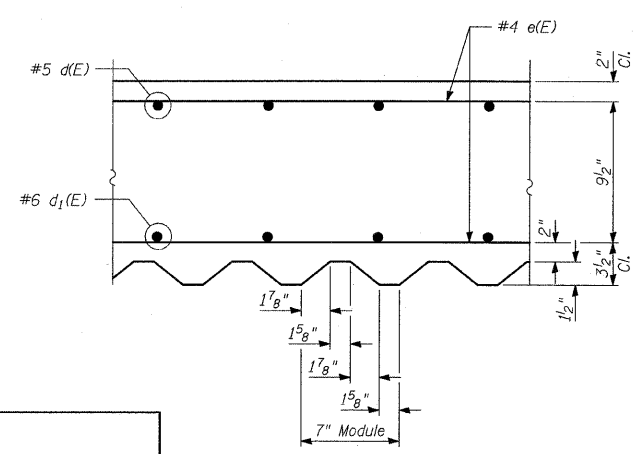
EXPANSION JOINT DETAILS



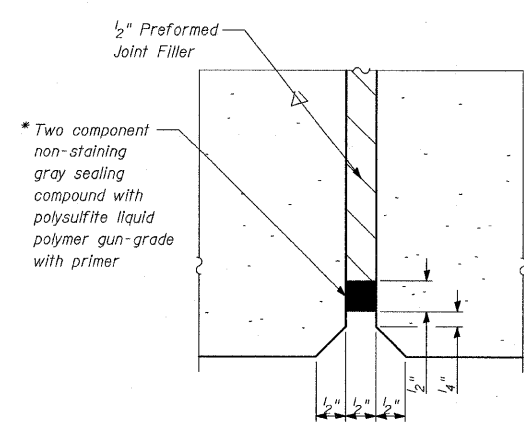
CONSTRUCTION JOINT DETAILS

LAP SPLICES

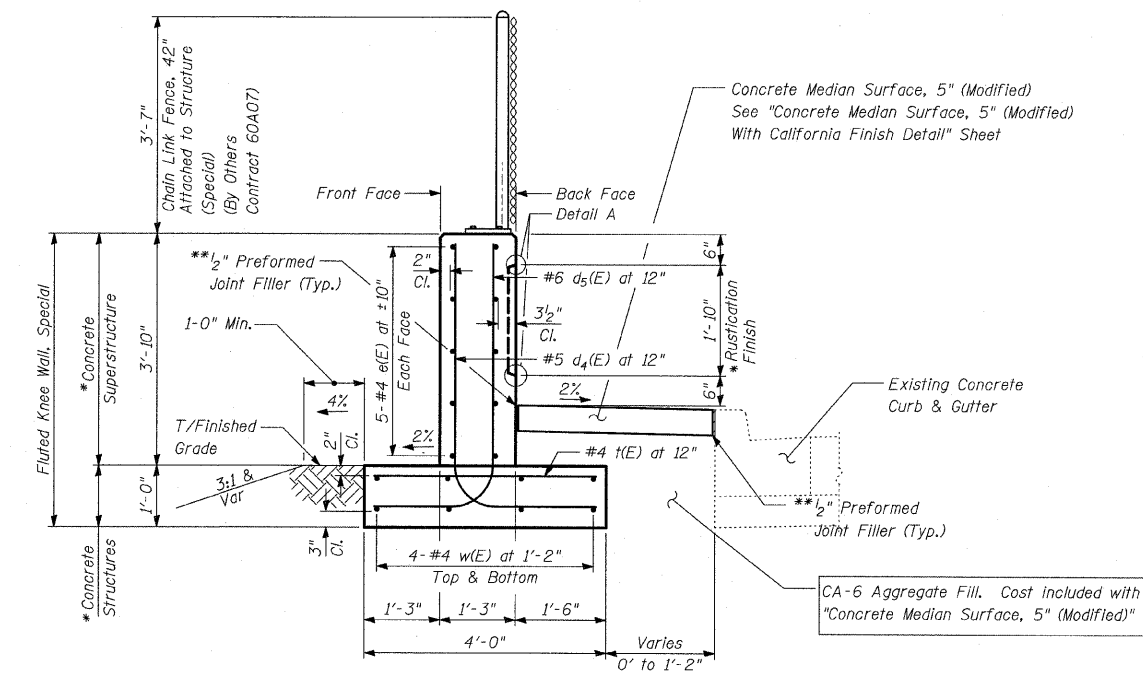
Bar	Lap
#4	1'-8"
#5	2'-2"
#6	2'-7"



SECTION A-A



DETAIL B



TYPICAL SECTION FLUTED KNEE WALL, SPECIAL

Sta. 153+65.6 to Sta. 154+00.9

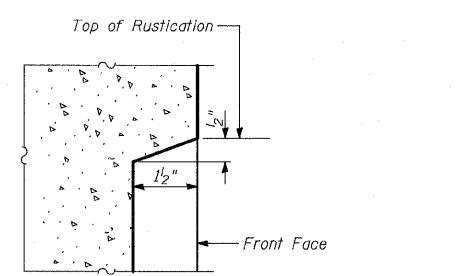
BILL OF MATERIAL

QUANTITIES PER FOOT OF FLUTED KNEE WALL, SPECIAL		
ITEM	UNIT	TOTAL
Concrete Structures	CU YD	0.15
Concrete Superstructure	CU YD	0.18
Protective Coat	SQ YD	1.01
Rustication Finish	SQ FT	1.84
Reinforcement Bars, Epoxy Coated	POUND	31.8

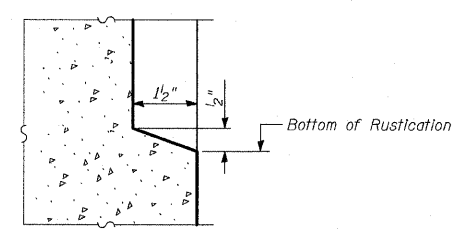
NOTES:

1. For notes, see "Fluted Knee Wall Standard Details" sheet.

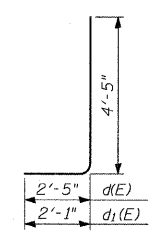
- * Cost included with "Fluted Knee Wall Special"
- ** Cost included with "Concrete Median Surface, 5" (Modified)"



DETAIL A



BARS d4(E) & d5(E)



REVISIONS	
NAME	DATE

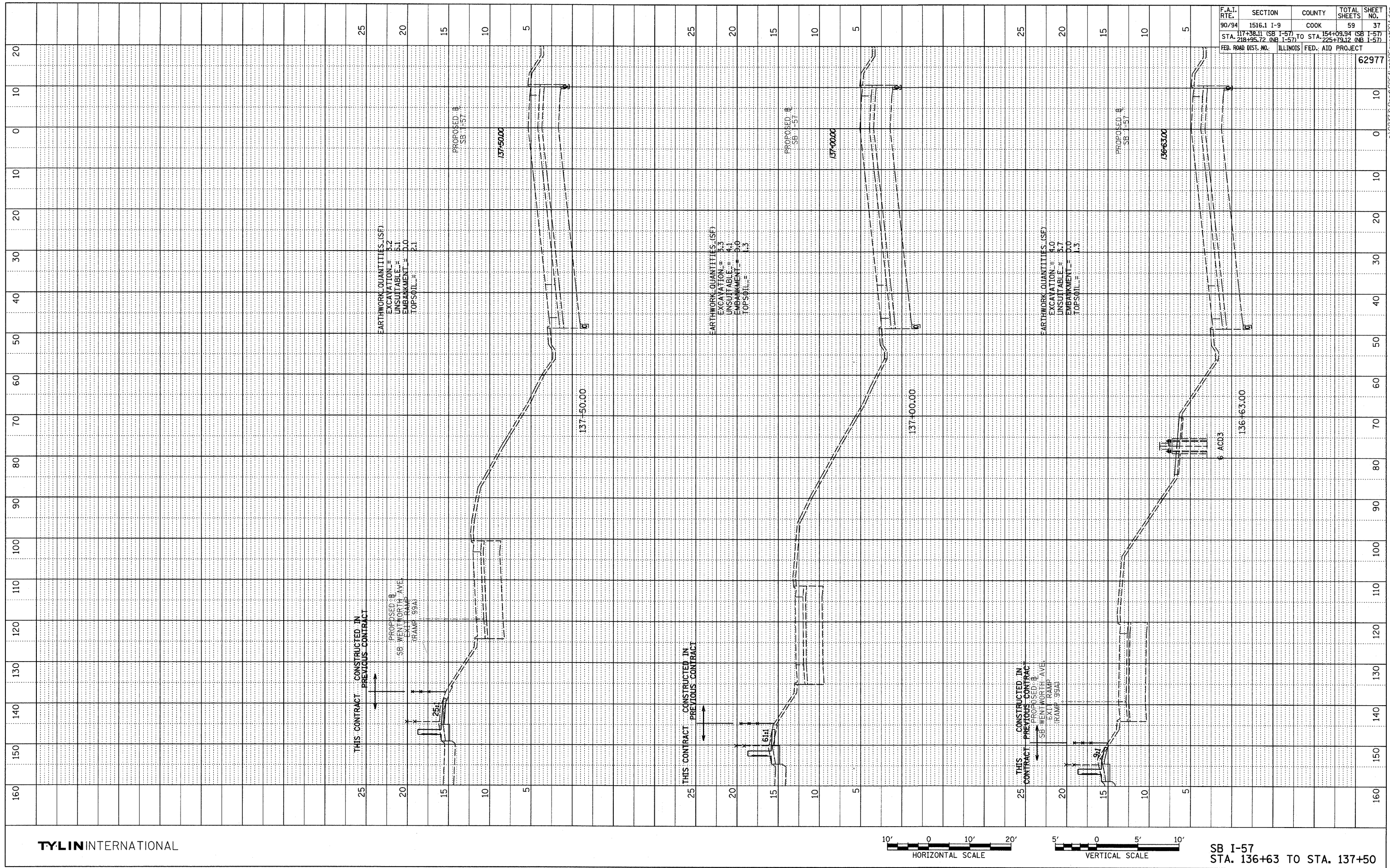
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
FLUTED KNEE WALL ALONG LAFAYETTE AVE
N. WENTWORTH TO S. 95TH ST.
FLUTED KNEE WALL, SPECIAL
STANDARD DETAILS

S.N. DESIGNED BY: MAF
SCALE: N.T.S. DRAWN BY: MAF
DATE: JANUARY 16, 2009 CHECKED BY: MAF

TYLIN INTERNATIONAL

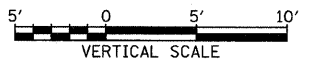
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PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	NO.		
	STRUCTURE	NOTATION	CHNO



F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	37
STA. 117+38.11 (SB I-57) TO STA. 154+08.94 (SB I-57)				
STA. 218+95.72 (NB I-57)				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
				62977

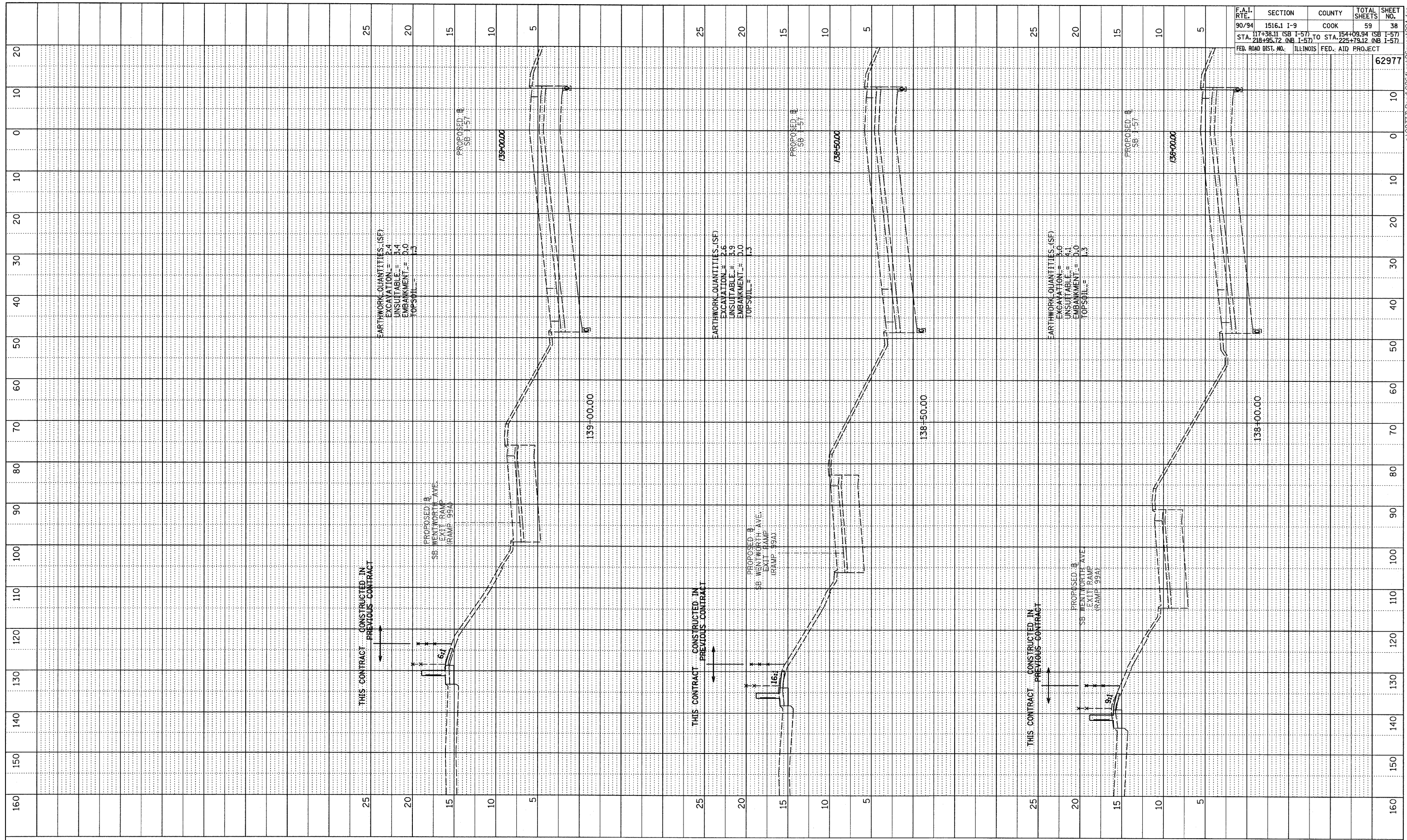
TYLIN INTERNATIONAL



SB I-57
STA. 136+63 TO STA. 137+50

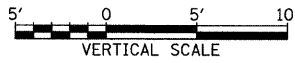
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PROFILE	SURVEYED	DATE
NOTE BOOK	PLotted	
NO.	BY	
	STRUCTURE NOTATIONS CHFD	



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	38
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)		TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
				62977

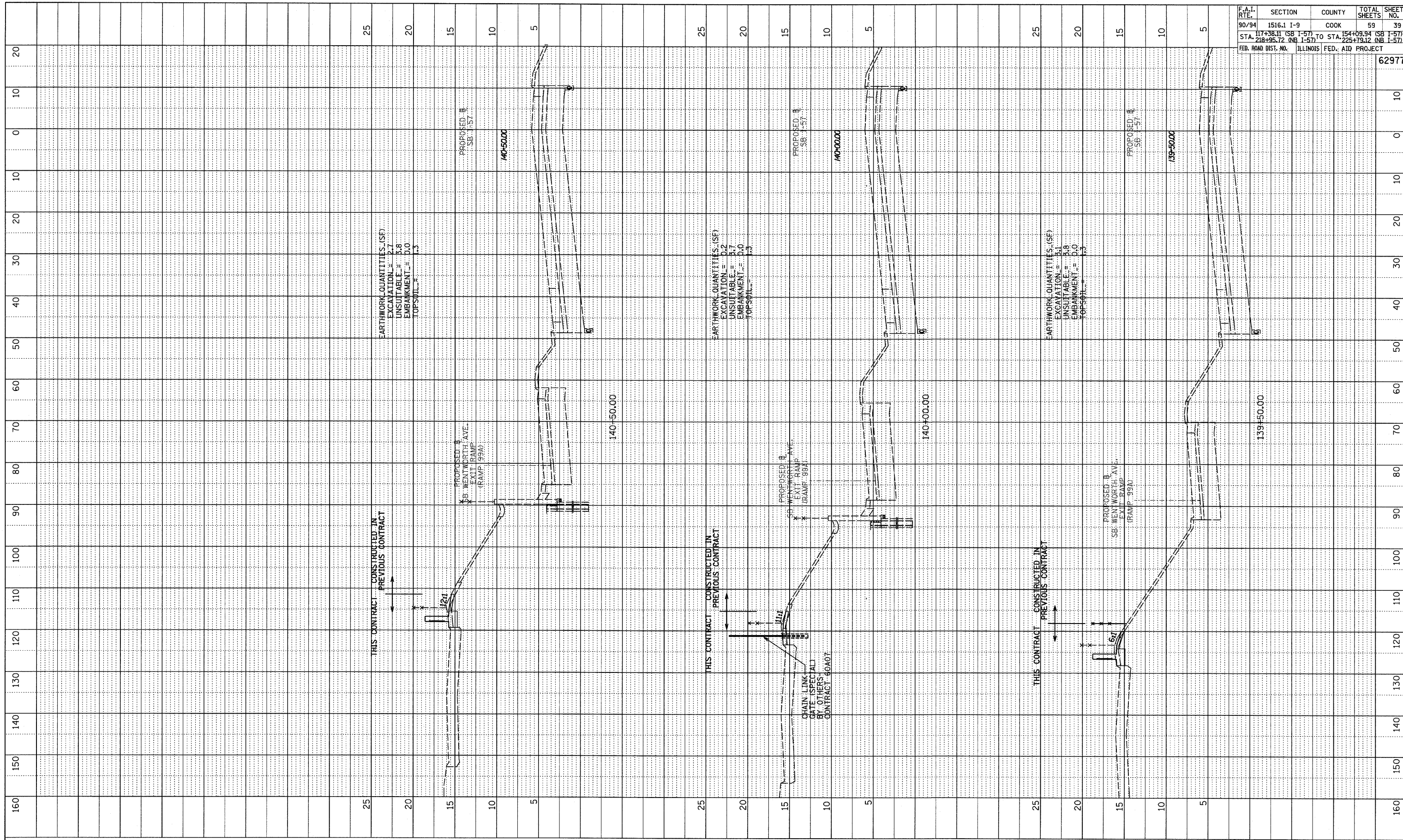
TYLIN INTERNATIONAL



SB I-57
STA. 138+00 TO STA. 139+00

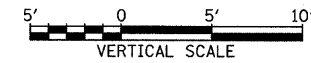
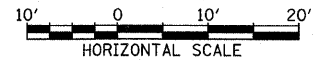
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PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	REVISIONS	
	STRUCTURE NOTATIONS	



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	39
STA. 174+38.11 (SB I-57)	TO STA. 154+09.94 (SB I-57)			
STA. 218+95.72 (NB I-57)	TO STA. 225+79.12 (NB I-57)			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		62977	

TYLIN INTERNATIONAL

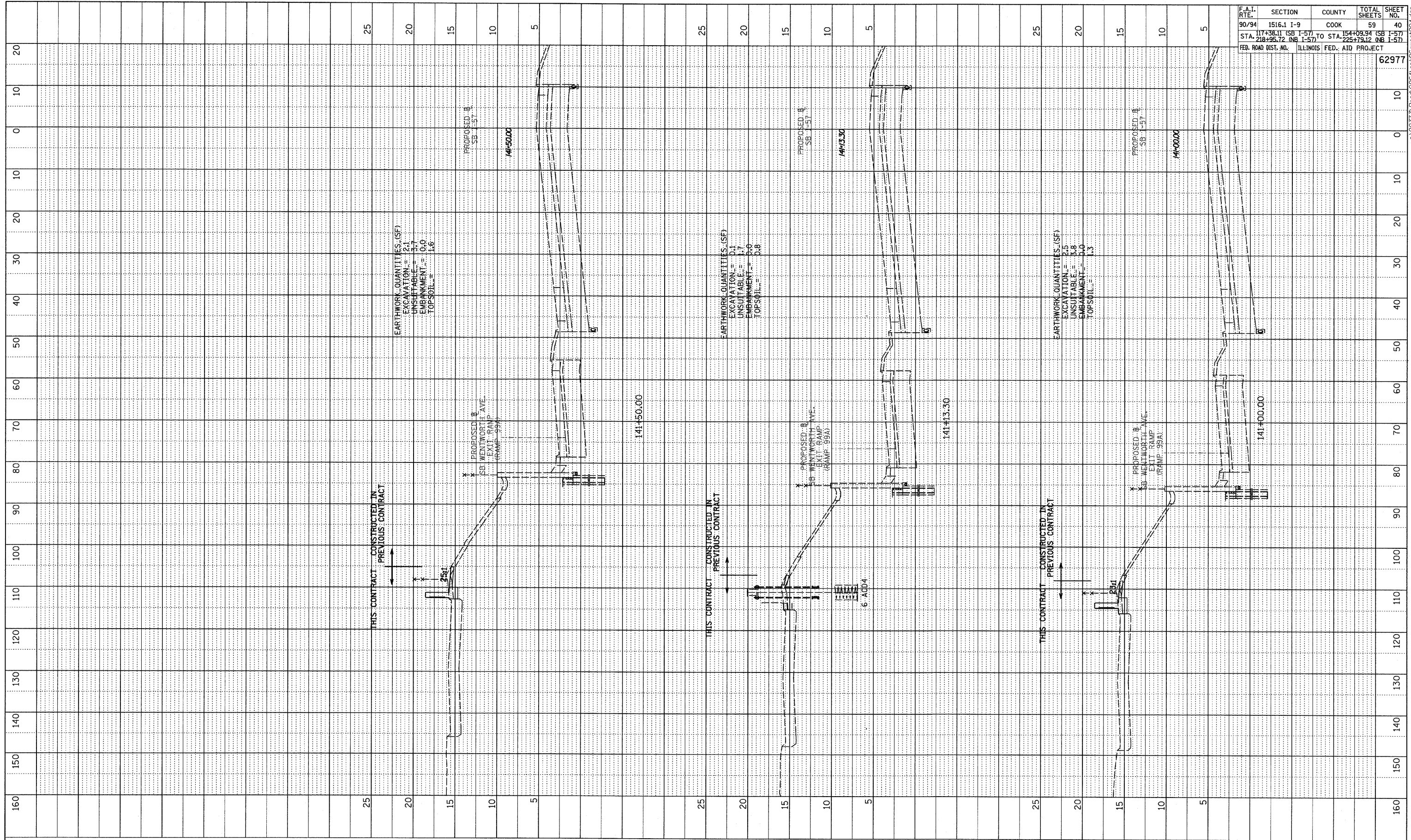


SB I-57
STA. 139+50 TO STA. 140+50

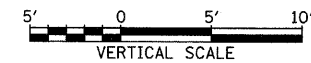
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	PLOTTED	BY
	REVISIONS	
	NO. _____	DATE _____
	DESCRIPTION	
	STRUCTURE NOTATIONS CHRD	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	40
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	STA. 218+95.72 (NB I-57)		TO STA. 225+79.12 (NB I-57)	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			62977	



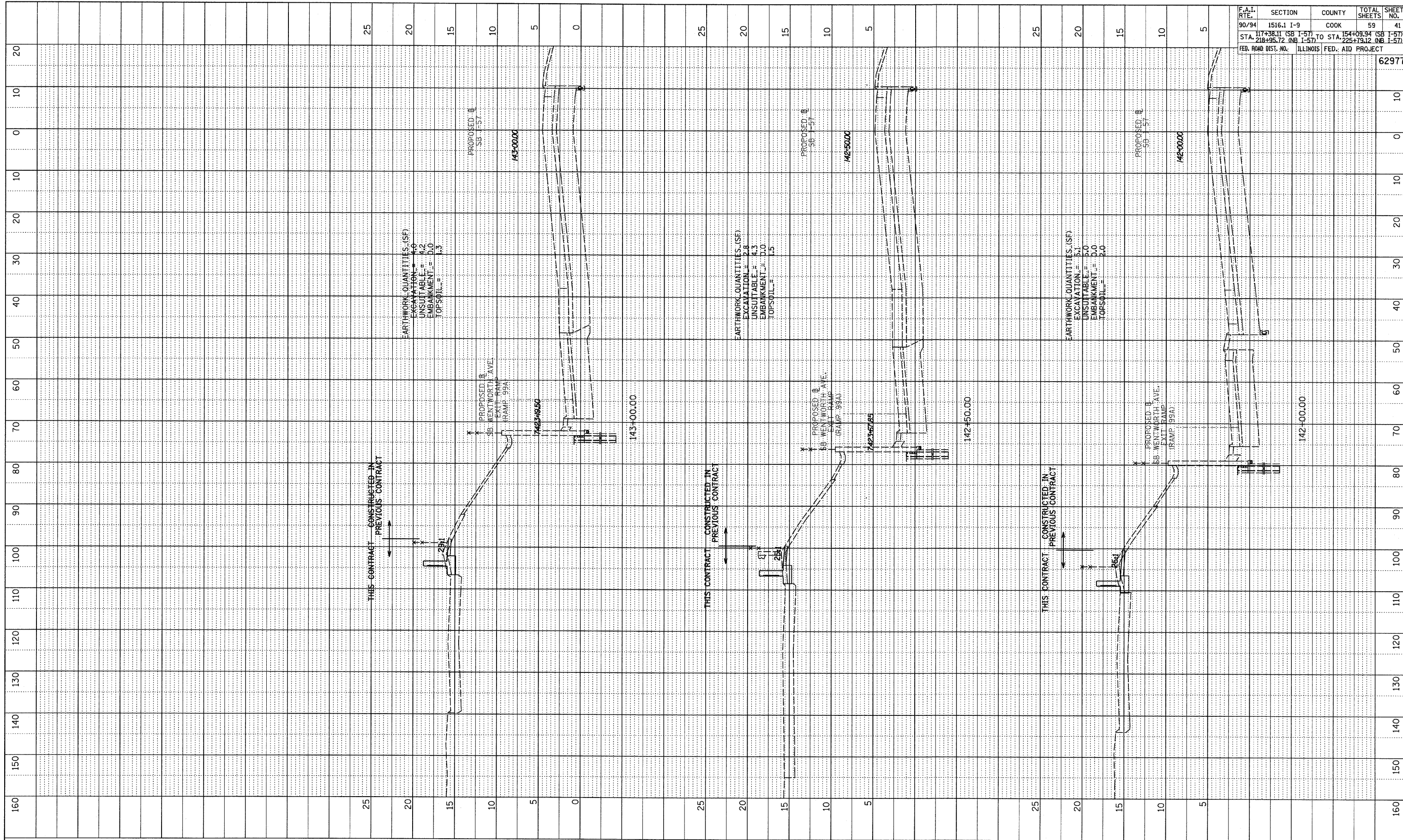
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SB I-57
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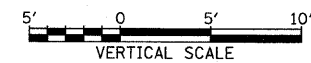
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PROFILE	SUPERVISED	DATE
NOTE BOOK	PLotted	BY
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	DATE	
	BY	
	DATE	



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	41
STA. 117+38.11 (SB I-57)	TO STA. 154+09.94 (SB I-57)			
STA. 218+95.72 (NB I-57)	TO STA. 225+79.12 (NB I-57)			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
				62977

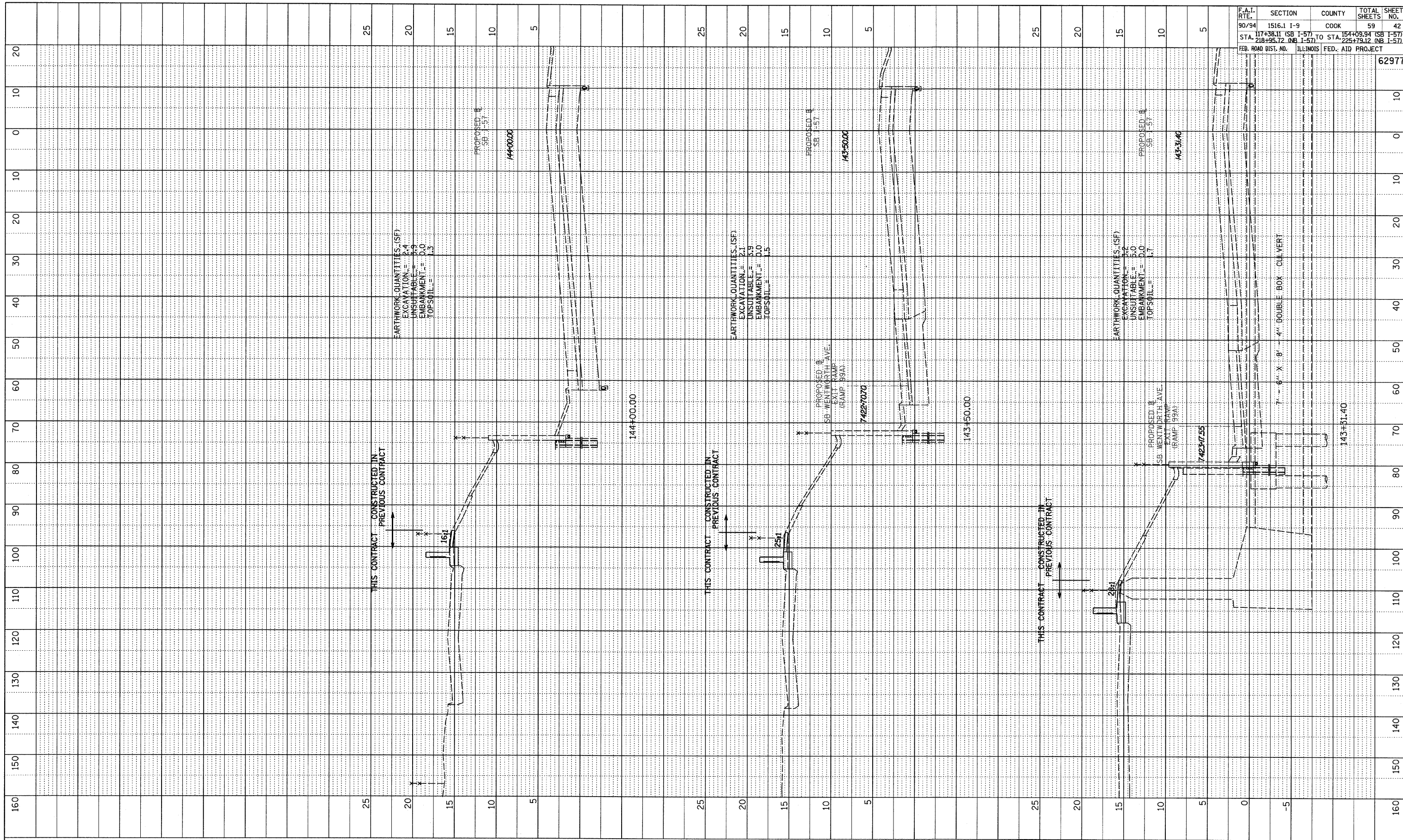
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SB I-57
STA. 142+00 TO STA. 143+00

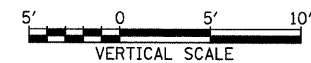
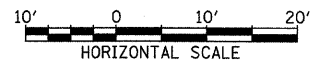
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PROFILE SURVEYED BY DATE
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 NOTE BOOK DRAWN BY
 NO. STRUCTURE NOTATION CHRD



F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	42
STA. 117+38.11 (SB I-57) TO STA. 154+38.94 (SB I-57)				
STA. 218+55.72 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				62977

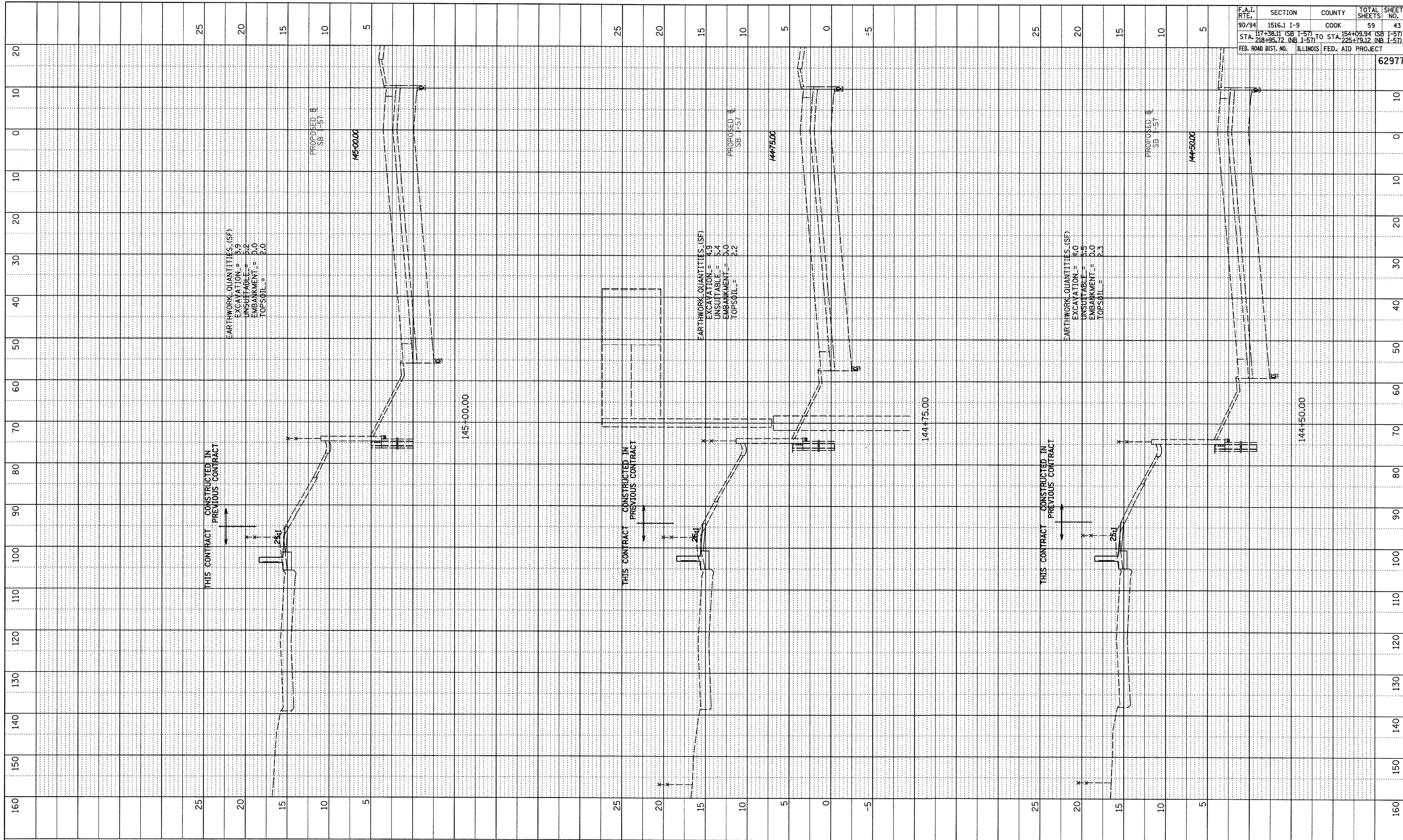
TYLIN INTERNATIONAL



SB I-57
 STA. 143+31.40 TO STA. 144+00

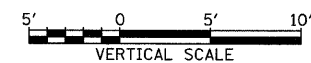
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PROFILE NO.	DATE
SURVEYED BY	
PLOTTED BY	
NOTE BOOK NO.	
STRUCTURE NOTATION CHD	



F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	43
STA. 144+50.00 (SB I-57) TO STA. 145+00.00 (SB I-57)		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		62977		

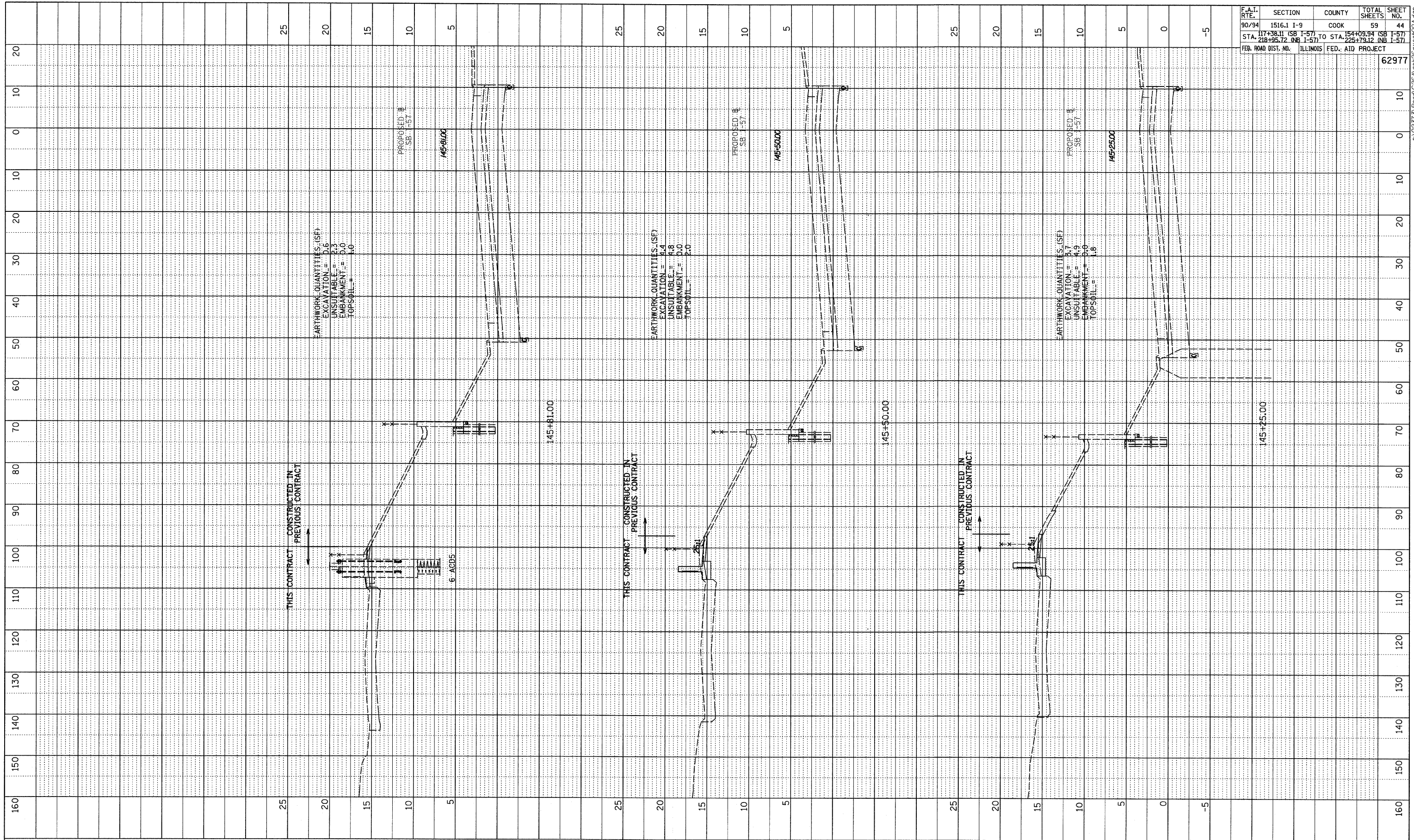
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SB I-57
STA. 144+50 TO STA. 145+00

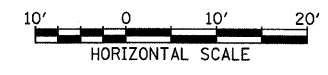
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PROFILE SUBMITTED BY DATE
 PLOTTED BY
 NOTE BOOK NO. _____
 STRUCTURE NOTATION CHRD



F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	44
STA. 117+38.11 (SB I-57)		TO STA. 154+09.94 (SB I-57)		
STA. 218+95.72 (NB I-57)		TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
				62977

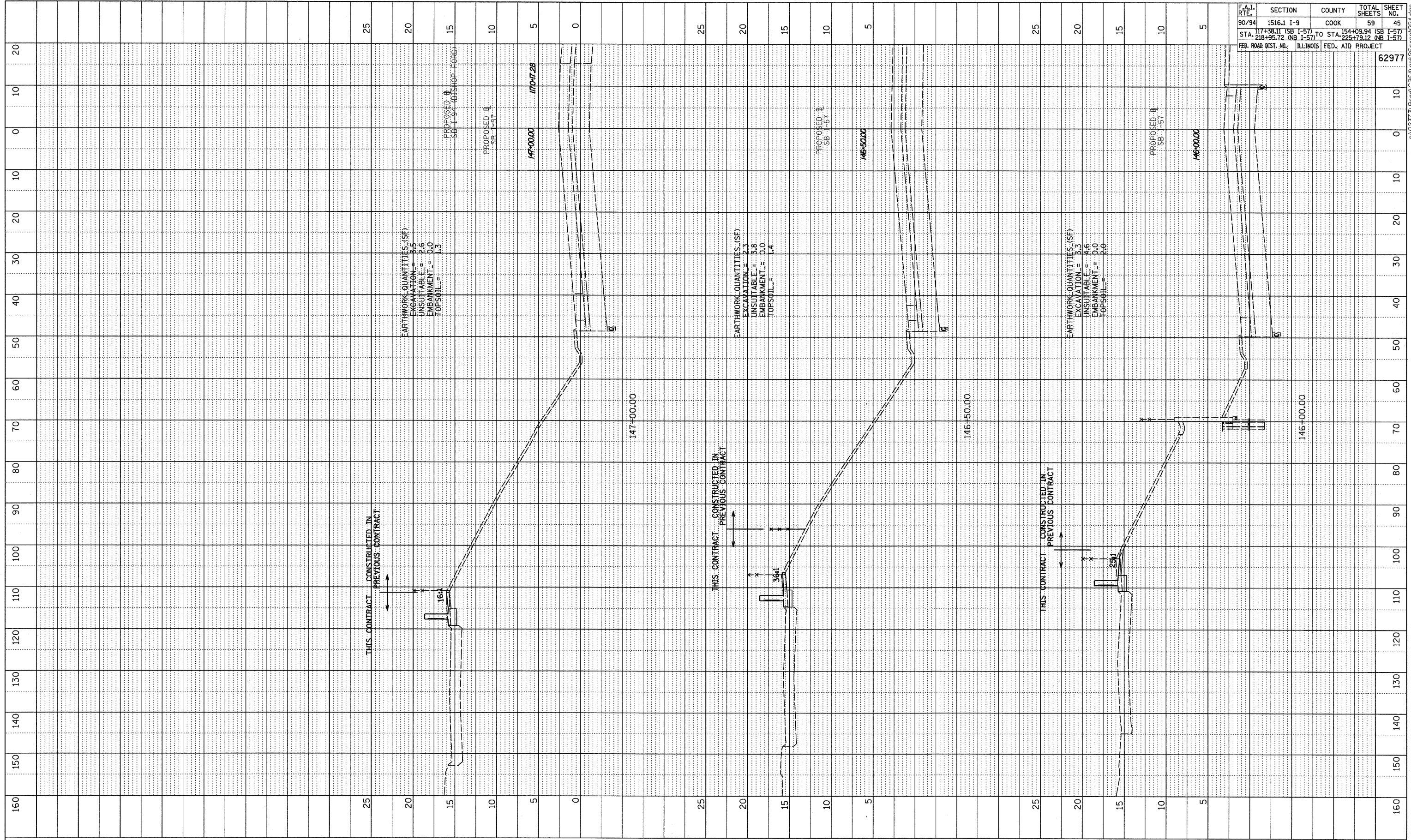
TYLIN INTERNATIONAL



SB I-57
 STA. 145+25 TO STA. 145+81

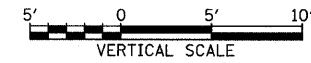
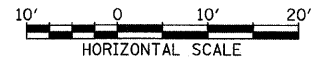
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PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. _____	STRUCTURE NOTATION CHRD	



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	45
STA. 174+38.11 (SB I-57)		TO STA. 154+09.94 (SB I-57)		
STA. 218+95.72 (NB I-57)		TO STA. 225+79.12 (NB I-57)		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			62977

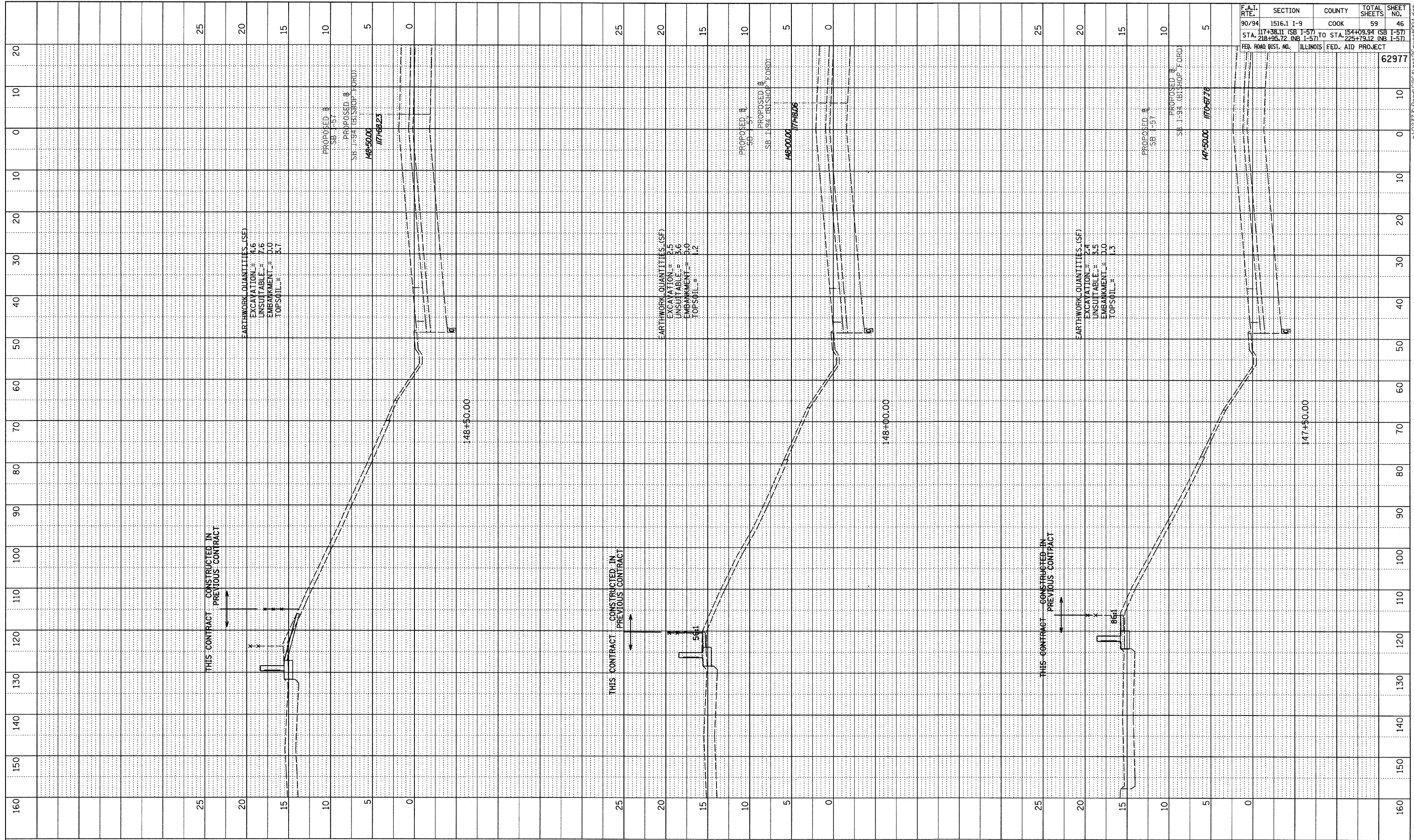
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SB I-57
STA. 146+00 TO STA. 147+00

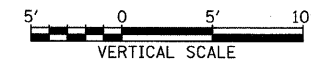
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PROFILE SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK NO.		
STRUCTURE NOTATION CHFD		



F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	46
STA. 218+55.72	TO STA. 225+79.12			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
62977				

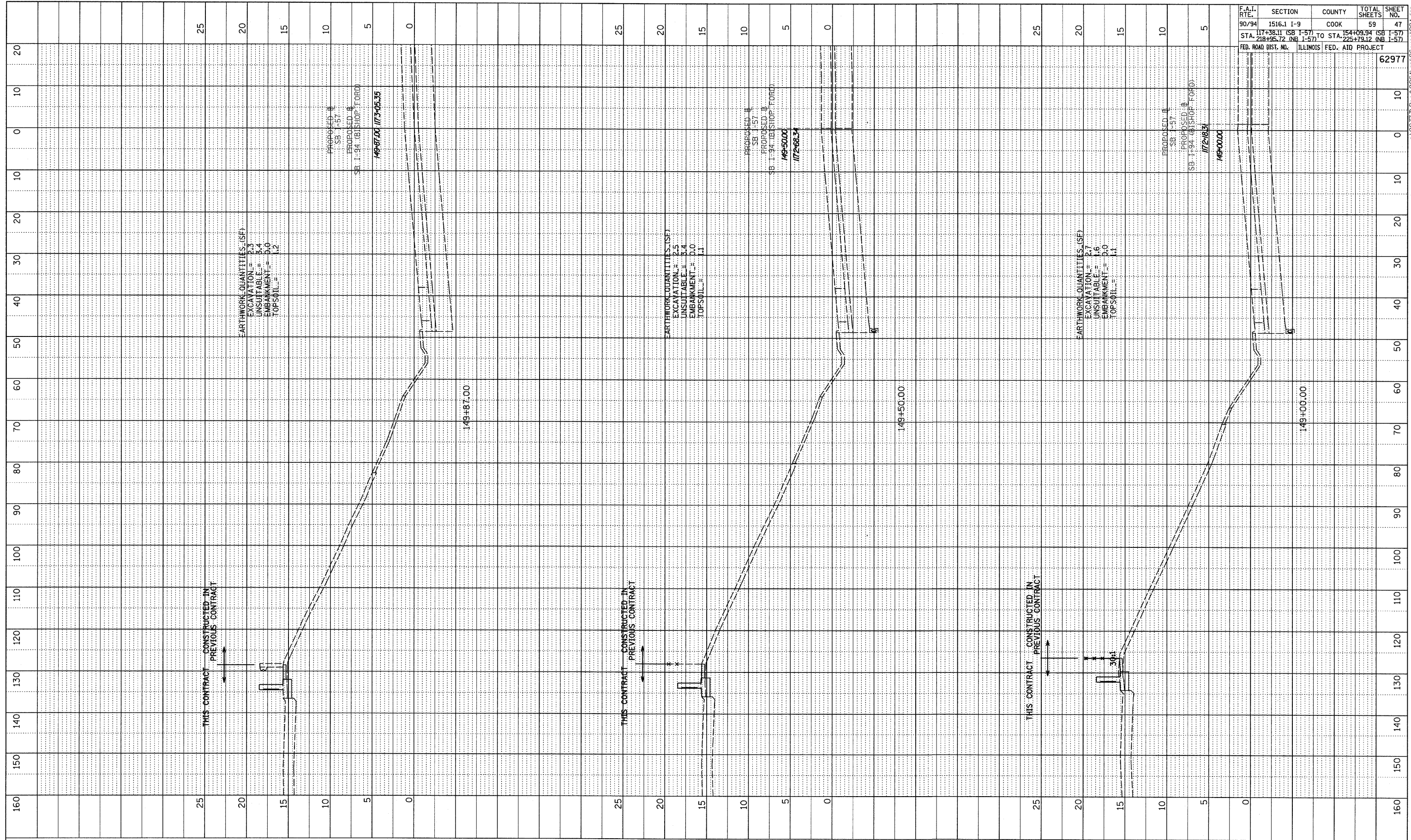
TYLIN INTERNATIONAL



SB I-57
STA. 147+50 TO STA. 148+50

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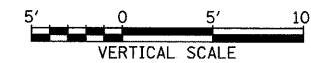
PROFILE	REVISIONS	DATE
NOTE BOOK	BY	
NO.	BY	
	DATE	



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	47
STA. 117+38.11 (SB I-57)	TO STA. 154+08.94 (SB I-57)			
STA. 218+95.72 (NB I-57)	TO STA. 225+79.12 (NB I-57)			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

62977

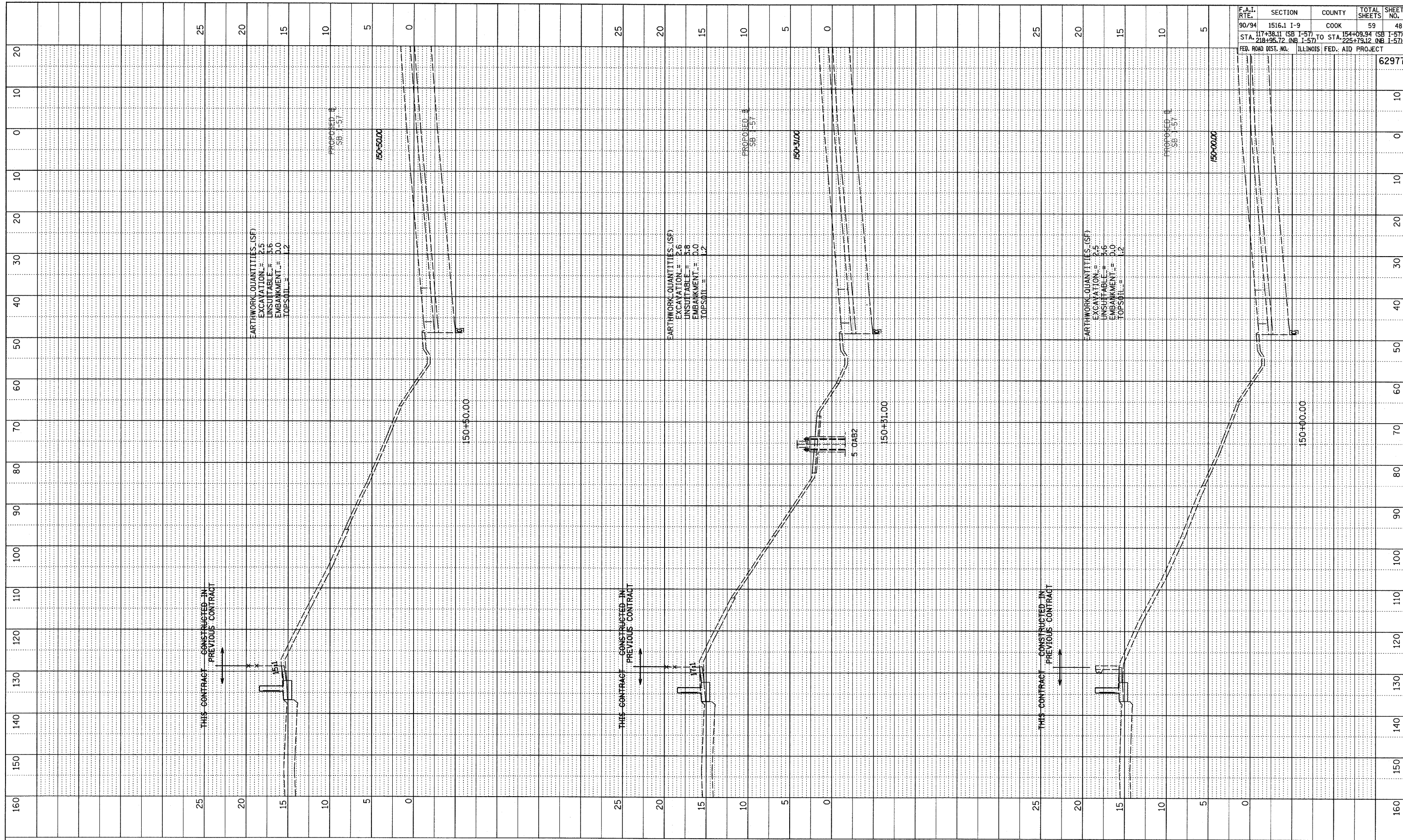
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SB I-57
STA. 149+00 TO STA. 149+87

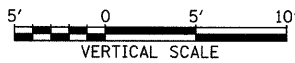
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PROFILE	SUPERVED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE CHECKED	
	BY	
	STRUCTURE NOTATION CHRG	



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	48
STA. 117+38.11 (SB I-57)	TO STA. 154+08.94 (SB I-57)			
STA. 218+95.72 (NB I-57)	TO STA. 225+79.12 (NB I-57)			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
				62977

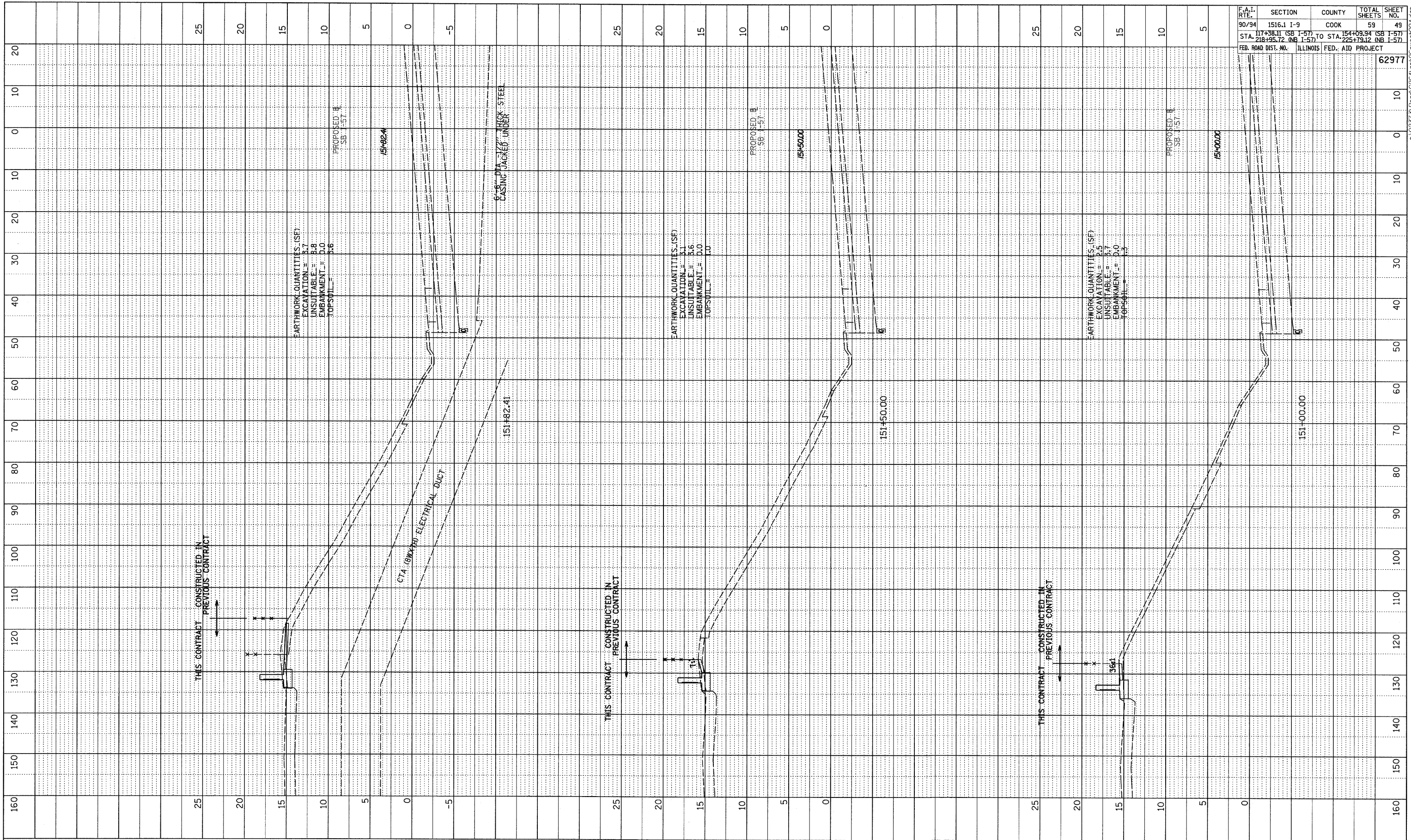
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SB I-57
STA. 150+00 TO STA. 150+50

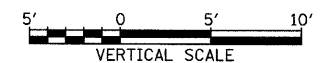
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PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	FLOTTED		
	REVISED		
	BY		
	NO. _____	STRUCTURE NOTATION	CHNO



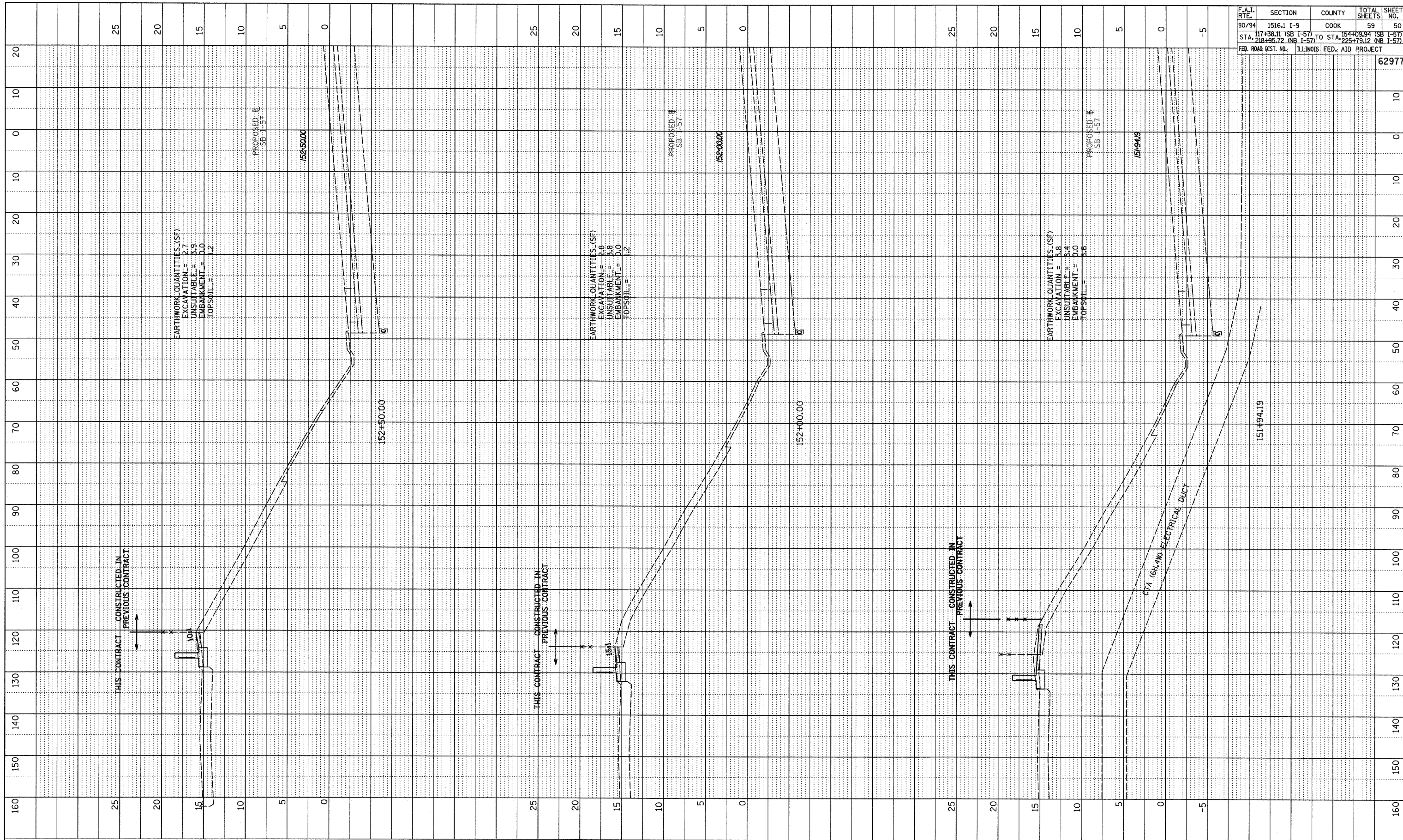
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	49
STA. 117+38.11 (SB I-57) TO STA. 154+08.94 (SB I-57)				
STA. 218+85.72 (WB I-57)				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			62977	

TYLIN INTERNATIONAL



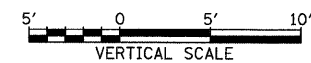
SB I-57
STA. 151+00 TO STA. 151+82.41

PROFILE SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK		
NO.		
STRUCTURE NOTATIONS DIVD		



F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	50
STA. 117+38.11 (SB I-57)		TO STA. 154+09.94 (SB I-57)		
STA. 218+95.72 (NB I-57)		TO STA. 225+19.12 (NB I-57)		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62977				

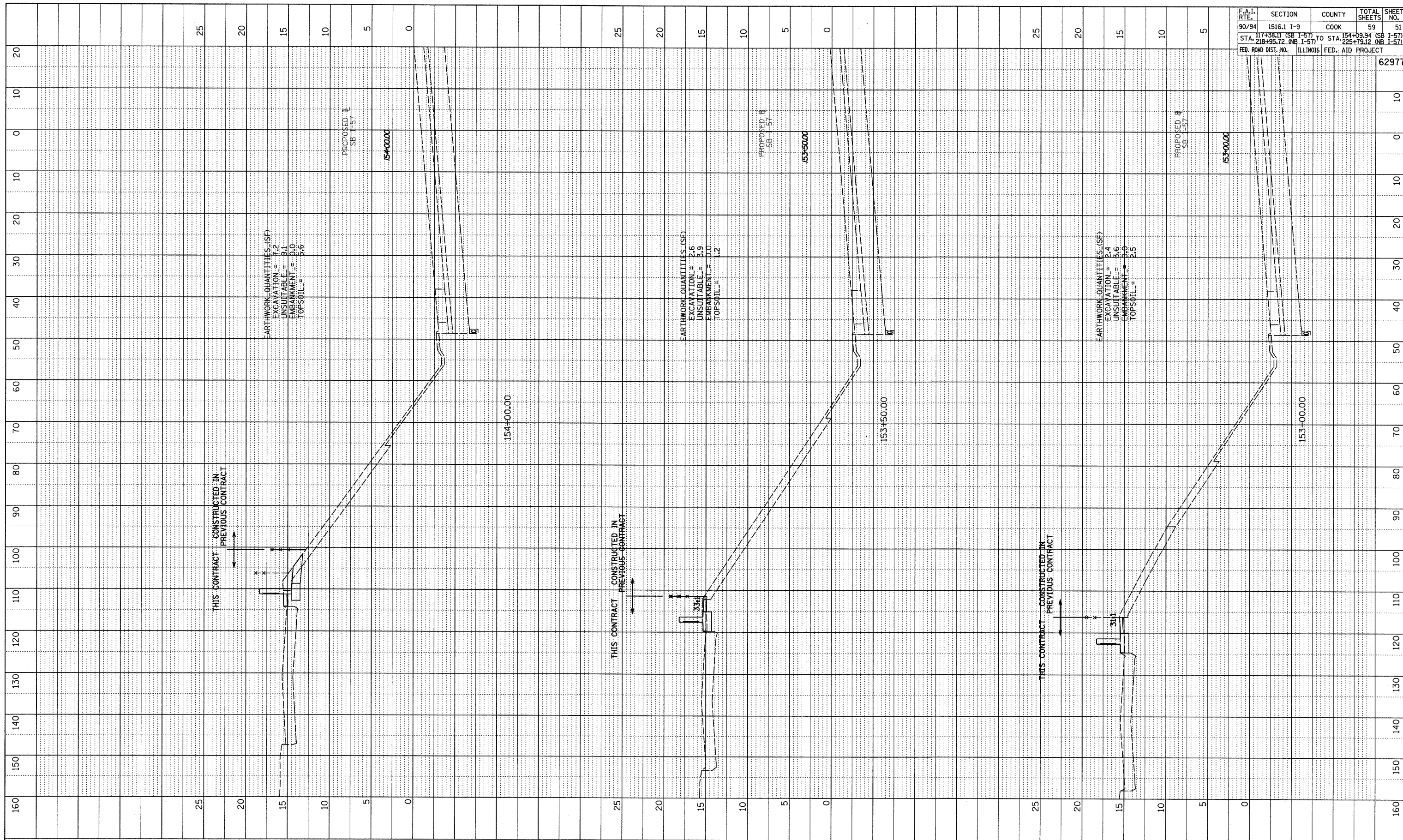
TYLIN INTERNATIONAL



SB I-57
STA. 151+94.19 TO STA. 152+50

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PROFILE	REVIEWED	DATE
NO.	BY	



EARTHWORK QUANTITIES (SF)
 EXCAVATION = 7.2
 UNSUITABLE = 8.1
 EMBANKMENT = 0.0
 TOPSOIL = 9.6

EARTHWORK QUANTITIES (SF)
 EXCAVATION = 2.6
 UNSUITABLE = 5.9
 EMBANKMENT = 0.0
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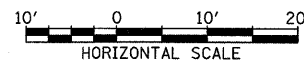
THIS CONTRACT CONSTRUCTED IN PREVIOUS CONTRACT

THIS CONTRACT CONSTRUCTED IN PREVIOUS CONTRACT

THIS CONTRACT CONSTRUCTED IN PREVIOUS CONTRACT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	51
STA. 117+38.11 (SB I-57)		TO STA. 154+09.94 (SB I-57)		
STA. 216+25.72 (NB I-57)		TO STA. 225+19.12 (NB I-57)		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62977	

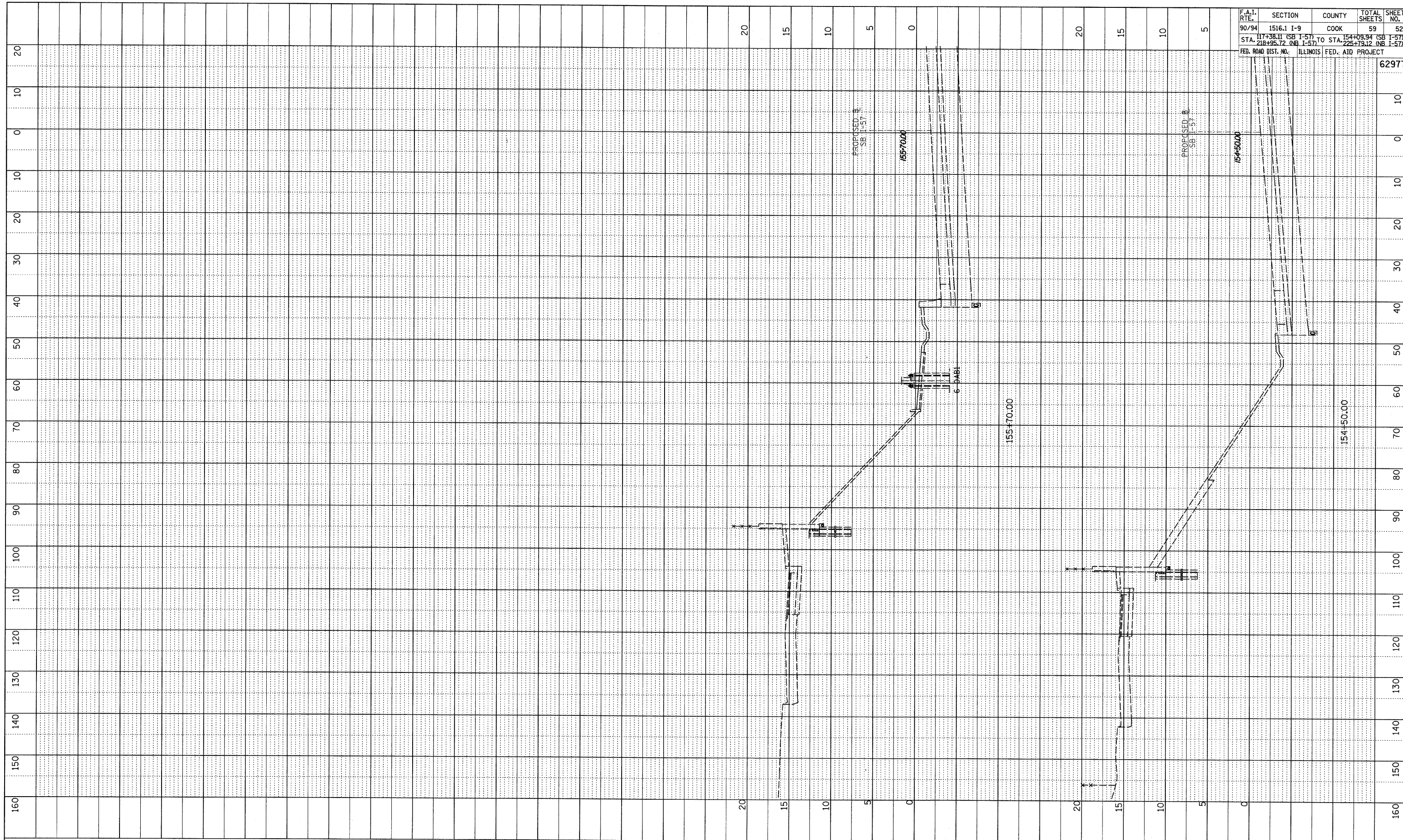
TYLIN INTERNATIONAL



SB I-57
 STA. 153+00 TO STA. 154+00

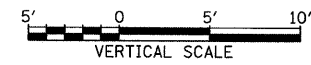
PA-02-37-3\Froad\C26A\gpk26a\ss199\A.dgn

PROFILE	BY	DATE
NO.		
NOTE BOOK		
NO.		
STRUCTURE		
NOTATION		



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	52
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		62977		

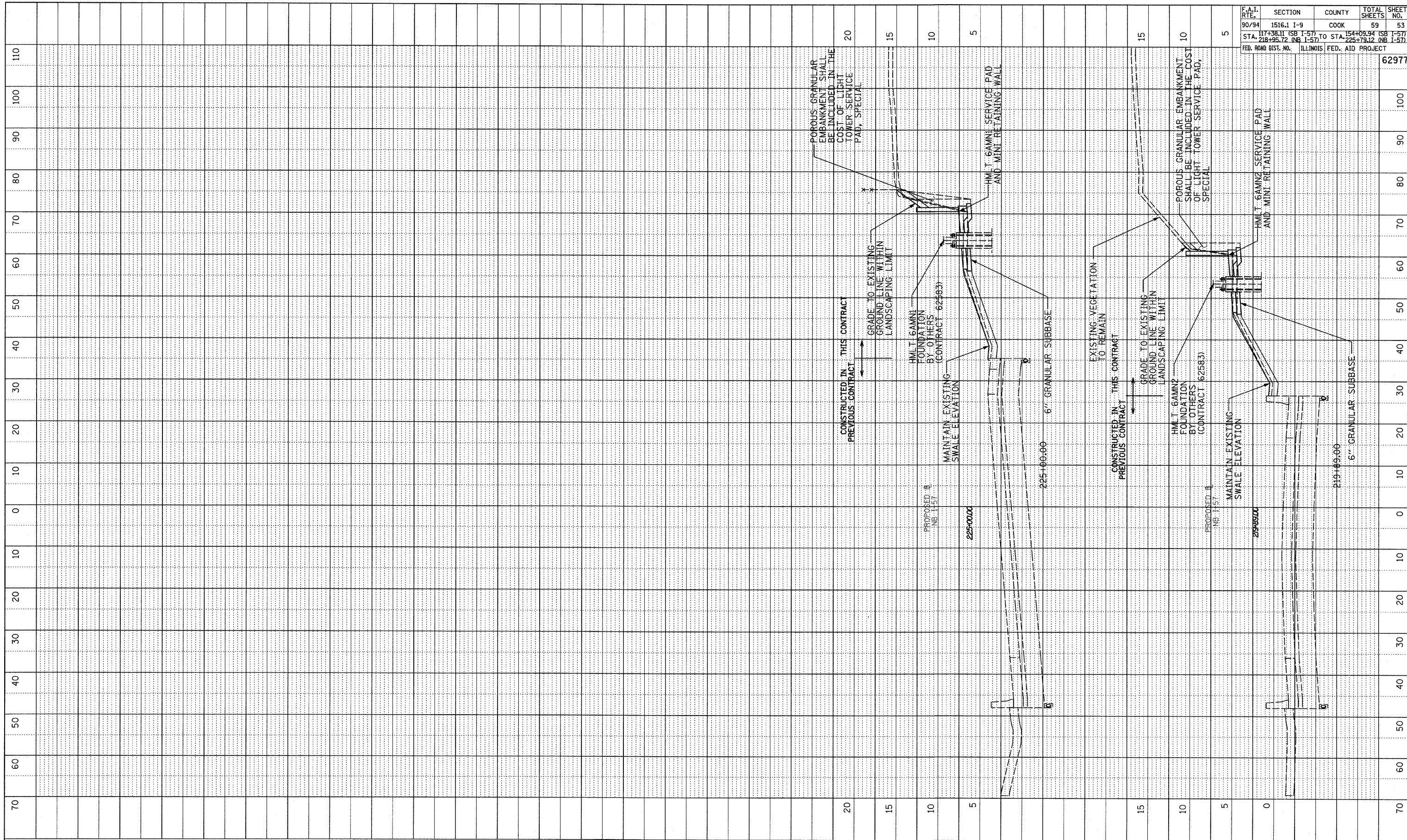
TYLIN INTERNATIONAL



SB I-57
STA. 154+50 TO STA. 155+70

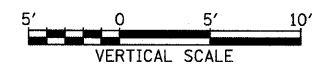
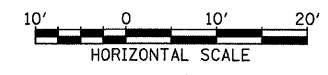
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PROFILE REVIEWED BY DATE
 PLOTTED BY
 NOTE BOOK NO. DATE
 STRUCTURE NOTATIONS CHRD



F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1516.1 I-9	COOK	59	53
STA. 117+38.11 (SB I-57) TO STA. 154+09.94 (SB I-57)				
STA. 218+95.72 (NB I-57) TO STA. 225+79.12 (NB I-57)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				62977

TYLIN INTERNATIONAL



NB I-57
 STA. 219+89 & STA. 225+00

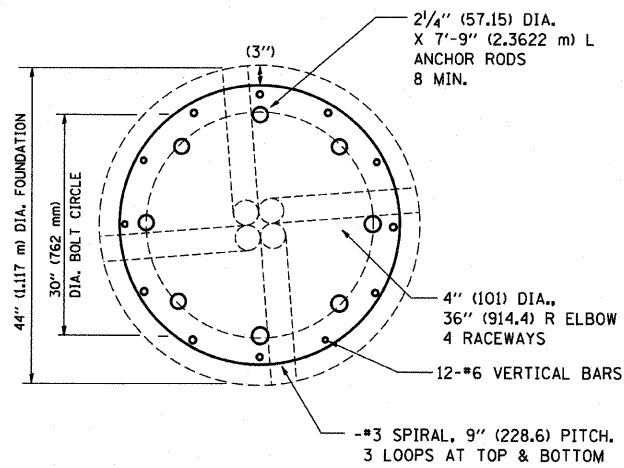
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LIGHT TOWER FOUNDATION DEPTH "D"

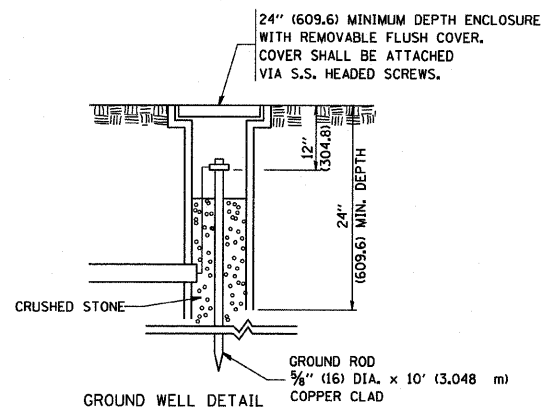
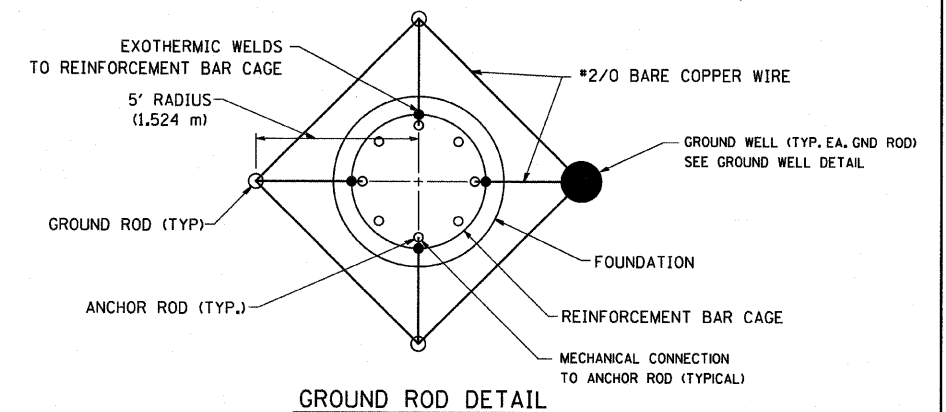
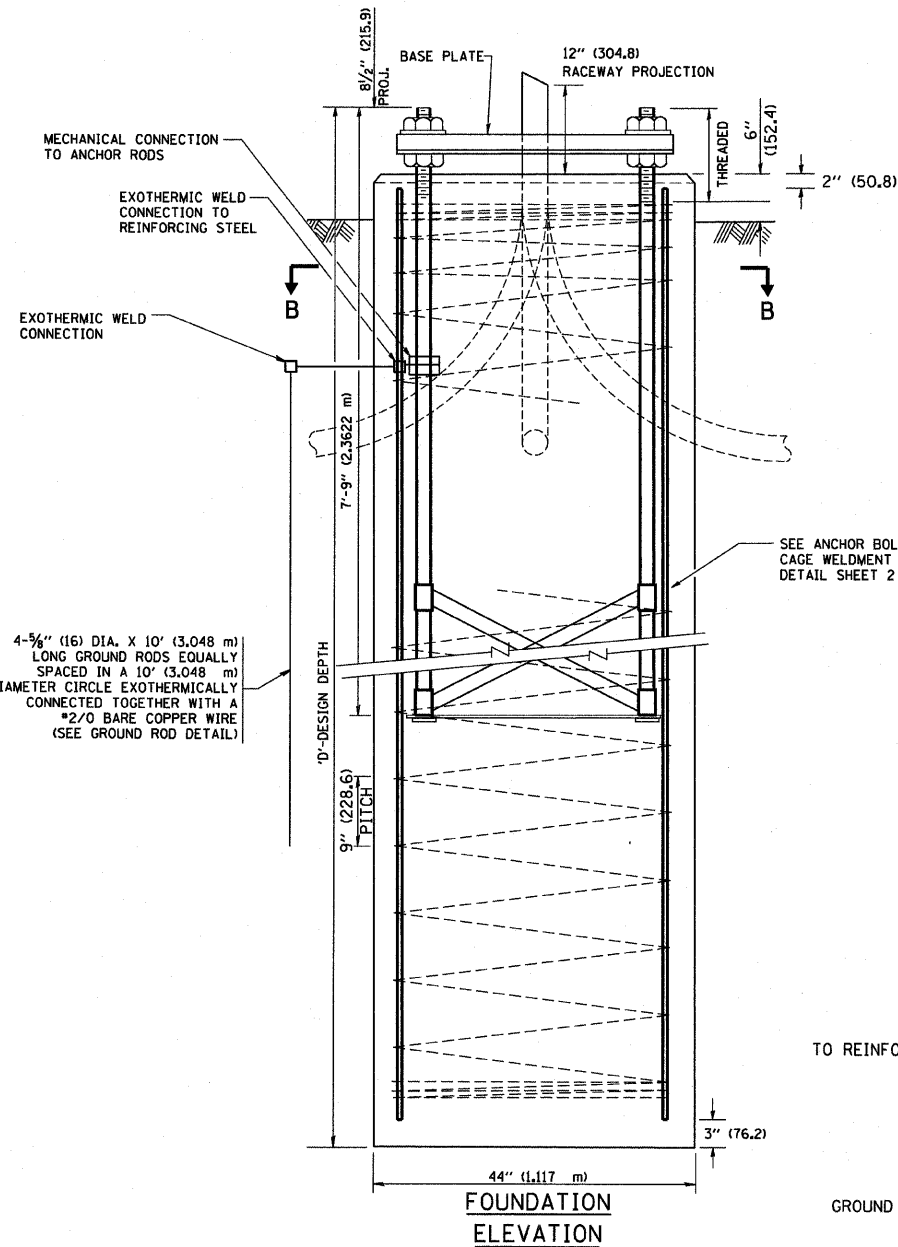
MOUNTING HEIGHT	SOIL CONDITIONS					
	SOFT CLAY Qu = 0.375 TON/SQ. FT	MEDIUM CLAY Qu = 0.75 TON/SQ. FT	STIFF CLAY Qu = 1.50 TON/SQ. FT	LOOSE SAND φ = 34°	MEDIUM SAND φ = 37.5°	DENSE SAND φ = 40°
90 FT (27 m)	29 FT (8.779 m)	20 FT (6.035 m)	15 FT (4.389 m)	15 FT (4.389 m)	13 FT (3.840 m)	12 FT (3.429 m)
100 FT (30 m)	32 FT (9.754 m)	22 FT (6.706 m)	16 FT (4.877 m)	16 FT (4.877 m)	14 FT (4.267 m)	13 FT (3.81 m)
110 FT (33 m)	35 FT (10.719 m)	24 FT (7.317 m)	18 FT (5.365 m)	18 FT (5.365 m)	15 FT (4.694 m)	14 FT (4.191 m)
120 FT (36 m)	38 FT (11.705 m)	26 FT (8.046 m)	19 FT (5.652 m)	19 FT (5.652 m)	17 FT (5.120 m)	16 FT (4.572 m)

DESIGN NOTES

- (1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- (2) THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- (3) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- (4) THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- (5) SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- (6) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- (7) ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725(GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- (8) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- (9) REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- (10) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.



4-5/8" (16) DIA. X 10' (3,048 m) LONG GROUND RODS EQUALLY SPACED IN A 10' (3,048 m) DIAMETER CIRCLE EXOTHERMICALLY CONNECTED TOGETHER WITH A #2/0 BARE COPPER WIRE (SEE GROUND ROD DETAIL)



FOR INFORMATION ONLY

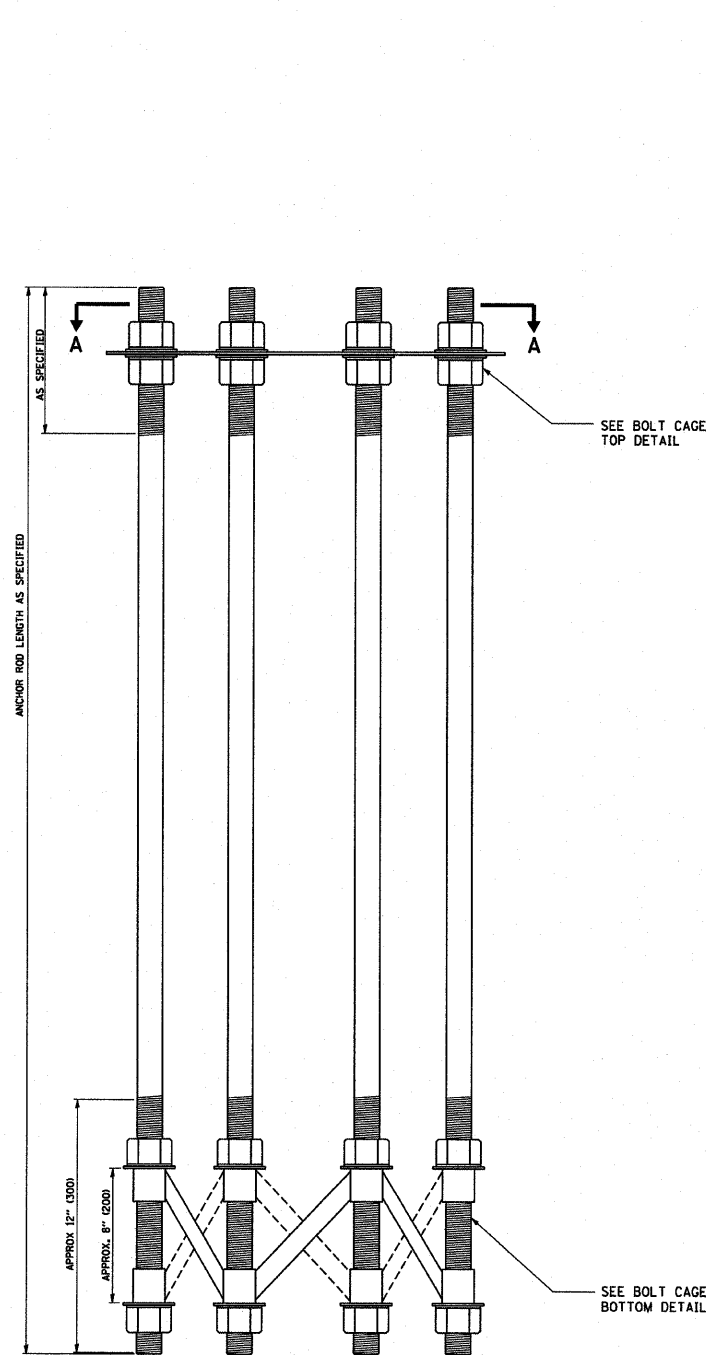
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PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

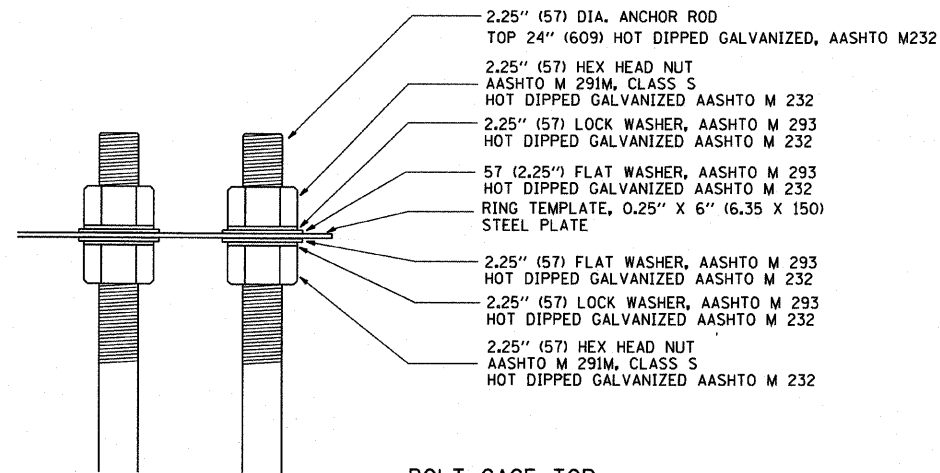
**HIGH MAST LIGHT TOWER
90 FT TO 120 FT (27 m TO 36 m) FOUNDATION DETAIL**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

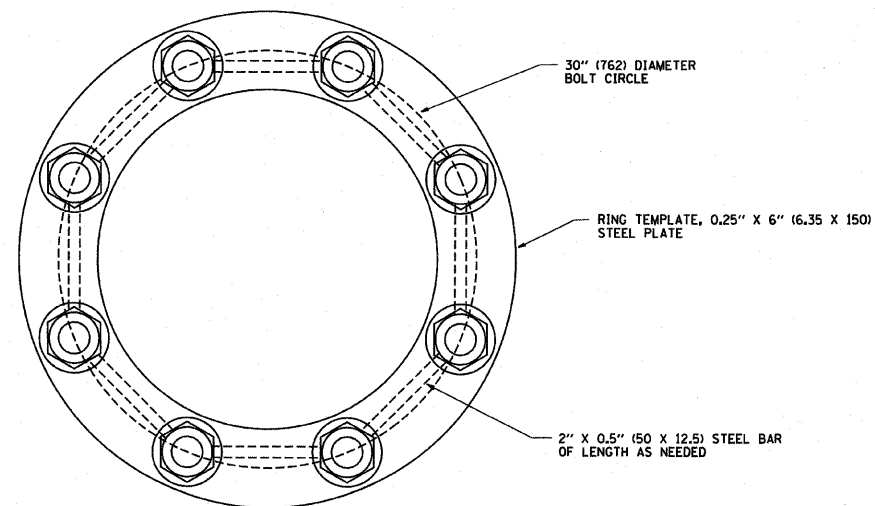
F.A. RTE. 94	SECTION ISL 1 I-9	COUNTY Cook	TOTAL SHEETS 59	SHEET NO. 51
BE-501			CONTRACT NO. 62977	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



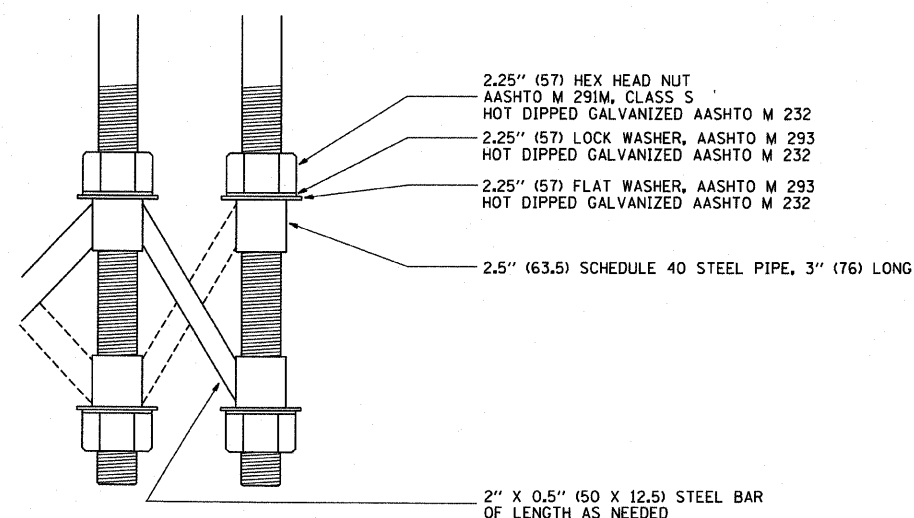
ANCHOR BOLT CAGE



BOLT CAGE TOP



SECTION A-A



BOLT CAGE BOTTOM

NOTES

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS.

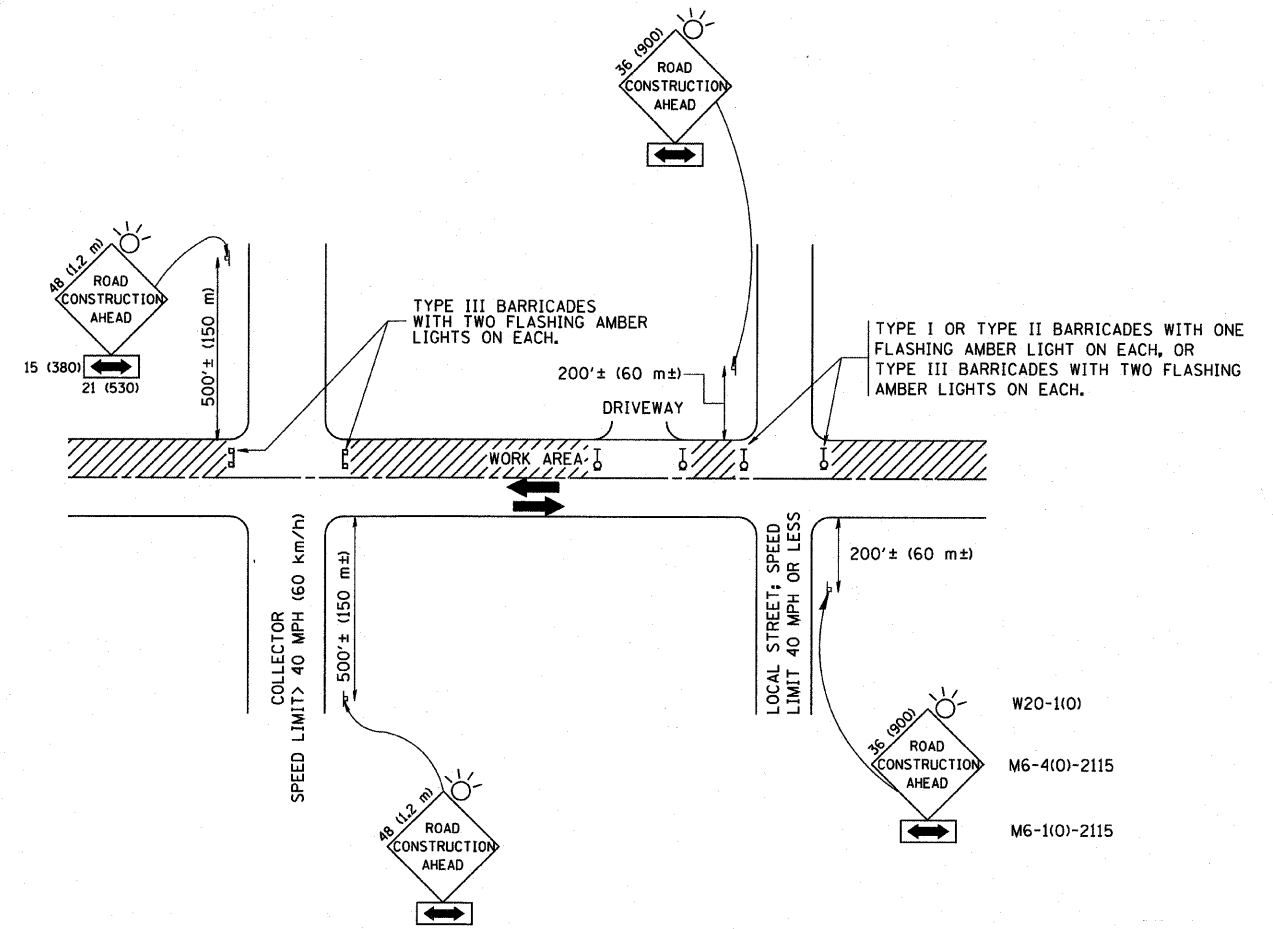
FOR INFORMATION ONLY

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	PLOT DATE = 1/4/2008	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HIGH MAST LIGHT TOWER			
90 FT TO 120 FT (27 m TO 36 m) FOUNDATION DETAIL			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516-1-9	COOK	59	55
BE-501			CONTRACT NO. 62977	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

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

All dimensions are in millimeters (inches) unless otherwise shown.

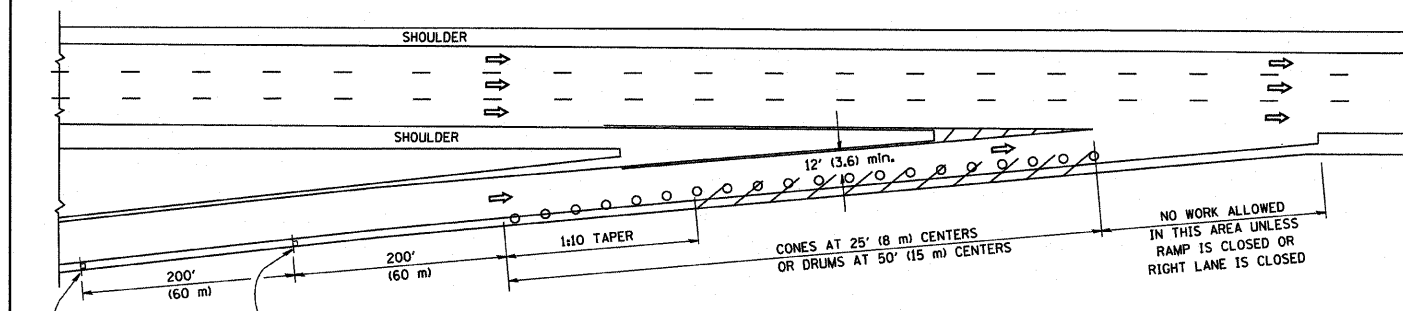
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

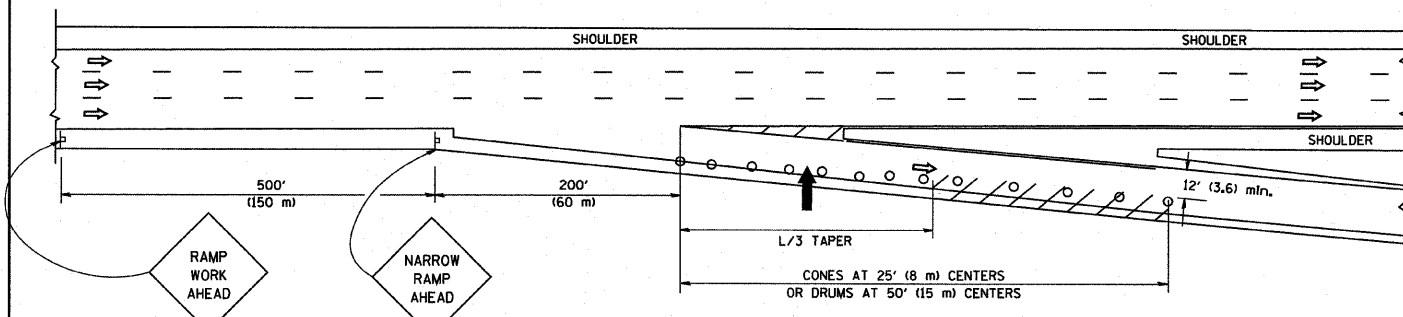
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	15161 J-9	Cook	59	56
TC-10			CONTRACT NO. 62977	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

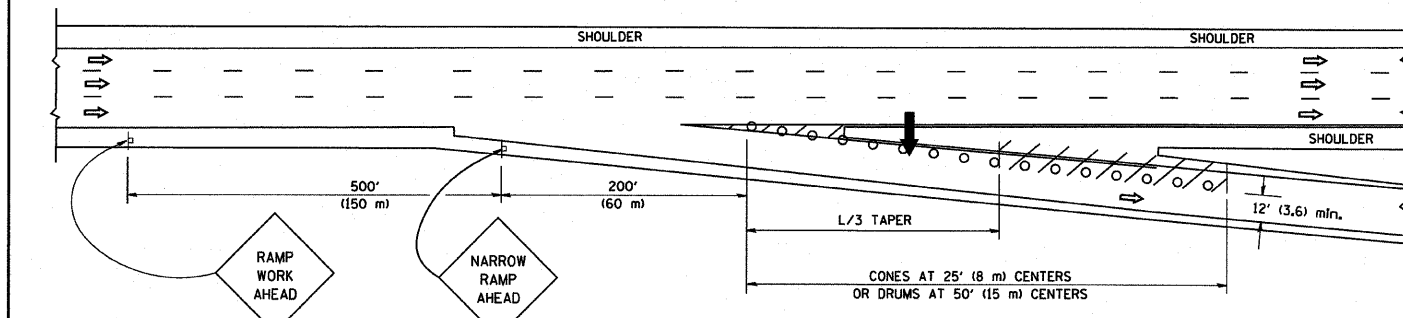
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

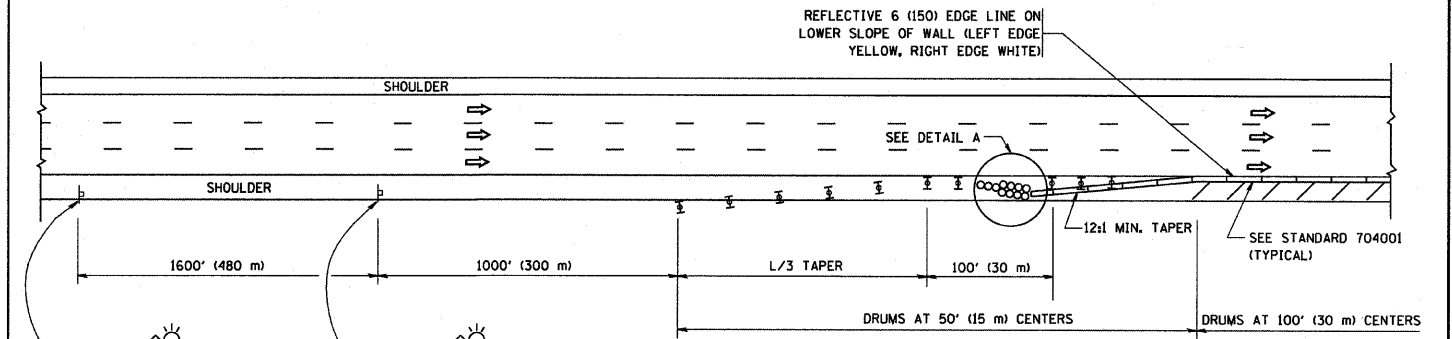
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

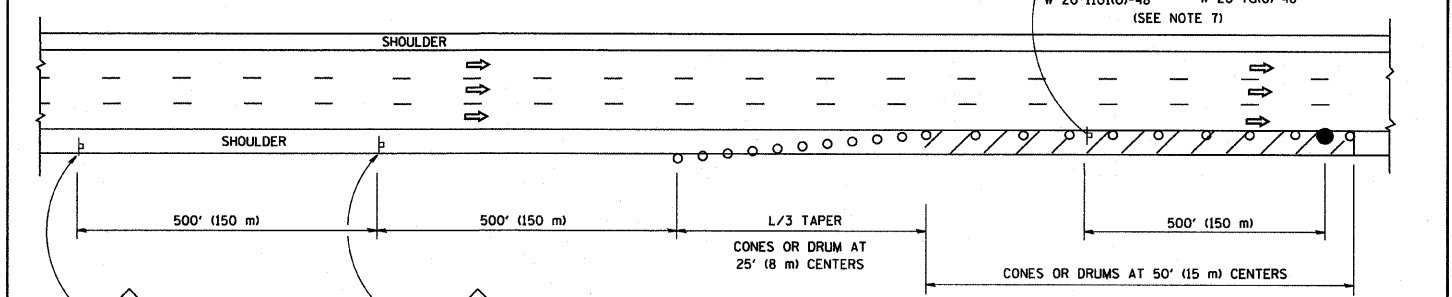
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC: $L=0.65(W)(S)$ ENGLISH: $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

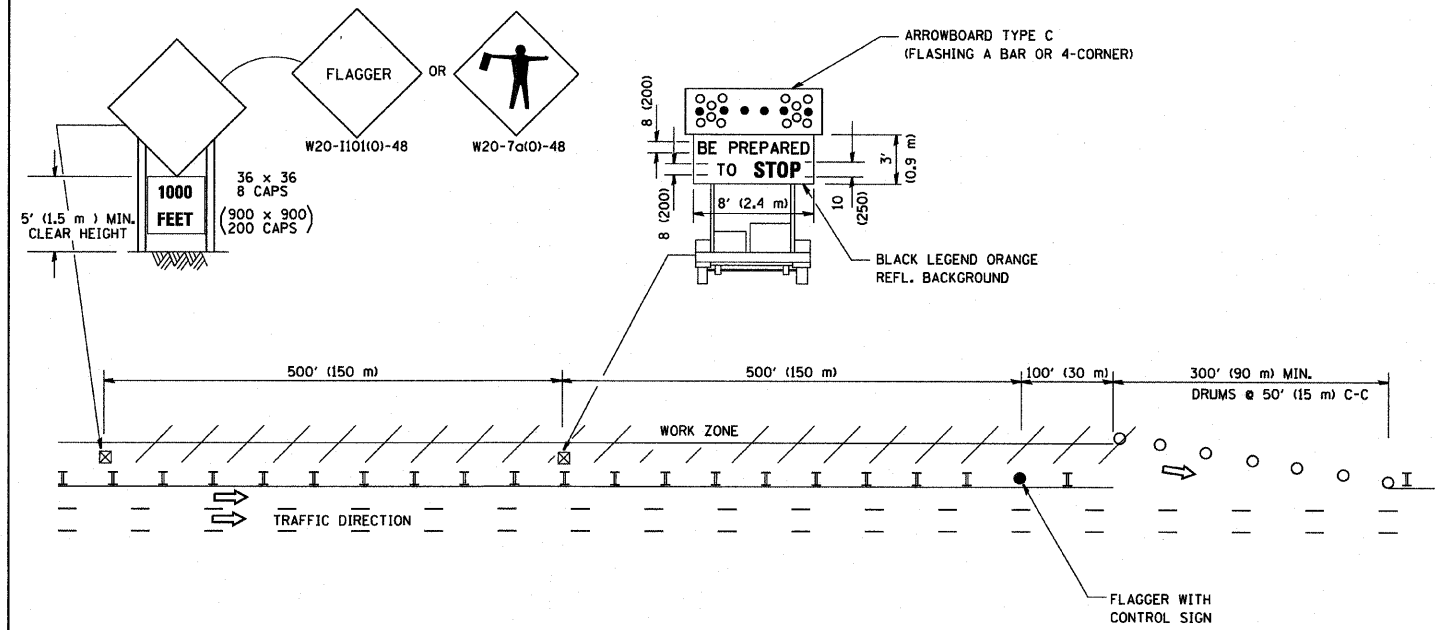
DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

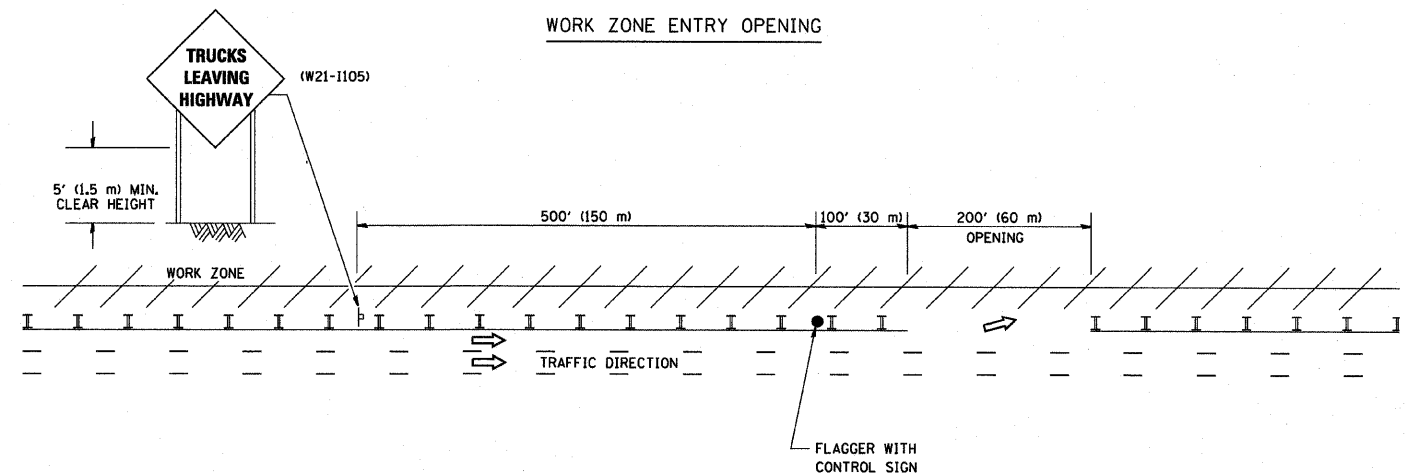
FILE NAME = W:\diststd\22x34\col7.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - J.A.F. 12-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A. RTE. 94	SECTION 1516.1 I-9	COUNTY Cook	TOTAL SHEETS 59	SHEET NO. 57
PLOT SCALE = 50.0000' / IN.	DRAWN - D.W.S.	CHECKED -	REVISED - 04-03		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 62977	
PLOT DATE = 1/4/2008	DATE = 11-96		REVISED - J.A.F. 12-06							
			REVISED - S.P.B. 01-07							

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\distsd\22x34\16.dgn	USER NAME = gaglienobt	DESIGNED -	REVISED - D.W.S. 08-98
		DRAWN -	REVISED - J.A.F. 04-03
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - J.A.F. 02-06
	PLOT DATE = 1/4/2008	DATE -	REVISED - S.P.B. 01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1516.1 I-9	COOK	59	58
TC-18			CONTRACT NO. 62977	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

