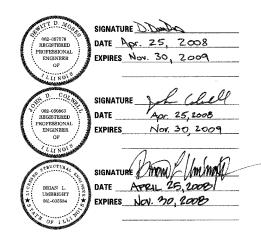
DESIGN NUMBER D-91-417-01



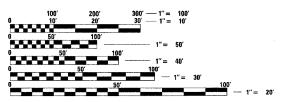
PROJECT LOCATED IN CITY OF CHICAGO

DESIGN DESIGNATION

WENTWORTH AVE: 8275 (20) URBAN COLLECTOR

ADT DESIGN POSTED (2020) SPEED SPEED

FRONTAGE ROAD:



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

BEFORE EXCAVATING CALL: (J.U.L.I.E.) JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

CONTRACT NO. 62996

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

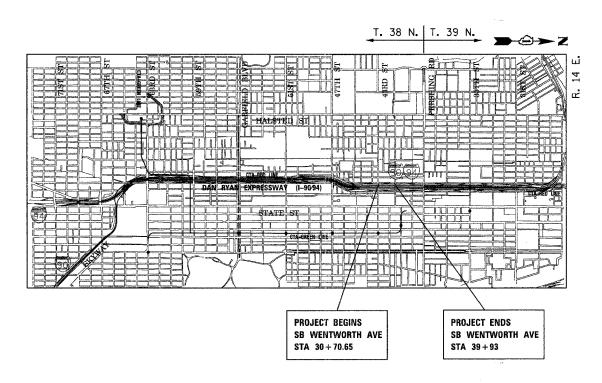
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY) SECTION 2122-921 PT 2-I-8

> **SOUTHBOUND KNEE WALLS** (43RD ST TO ROOT ST)

> > **COOK COUNTY**

C-91-254-05

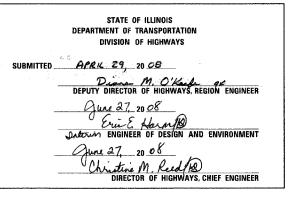


LOCATION MAP

GROSS LENGTH OF PROJECT = 922.35 FT (0.175 MILES) NET LENGTH OF PROJECT = 530.32 FT (0.100 MILES)

SECTION COUNTY





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BOWMAN, BARRETT & ASSOCIATES INC. 1 CONSULTING ENGINEERS Chicago, Illinois



F.A.I. SECTION	SECTION COUNTY		SHEET NO.		
94/90 *	COOK	25	2		
STA. TO STA.					
FED. ROAD DIST. NO.	ILLINOIS FED.	AID PROJECT			

62996

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH: CONTRACT 60A05 SB FENCE AND GATES FROM 47TH ST TO 31ST ST CONTRACT 62303 - RECONSTRUCTION OF SOUTHBOUND LOCAL LANES AND RAMPS
 - BETWEEN GARFIELD BOULEVARD AND 31ST ST CONTRACT 62583 - LIGHTING AND SURVEILLANCE 31ST ST TO 1-57 INTERCHANGE CONTRACT 62995 - SOUTHBOUND KNEE WALLS (47TH ST TO 43RD ST)
 - CONTRACT 62997 SOUTHBOUND KNEE WALLS (ROOT ST TO PERSHING ROAD)
- 2. CONTRACTOR SHALL MATCH ALL WORK COMPLETED IN CONTRACT 62303
- 3. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR MUST CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY IMPACT THE WORK UNDER THIS CONTRACT, ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE MUST BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION MUST BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF ANY AND ALL SURFACE AND UNDERGROUND UTILITIES, EVEN THOUGH THEY MAY NOT BE IDENTIFIED
- 4. THE CONTRACTOR MUST COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES OF THE CITY OF CHICAGO. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL THE CHICAGO UTILITY ALERT NETWORK (C.U.A.N.) AT (312) 744-7000 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE, CABLE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED). THE CONTRACTOR MUST CONTACT THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT, PERMIT SECTION AT (312) 747-7893 FOR WATER AND CITY SEWER LOCATIONS.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM IDOT.
- 6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS. THE CONTRACTOR MUST EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING
- 7. CHAIN LINK FENCE REMOVAL MUST BE CONSIDERED AS PART OF CLEARING.
- 8. IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED KNEE WALLS OR WHERE PROPOSED KNEE WALL TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
- 9. THE CONTRACTOR MUST TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- 10. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED. THE ENGINEER MUST BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR MUST PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AN AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF R.O.W. MARKERS MUST REMAIN UNDISTURBED.
- FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.

- 12. BARRICADES: THE CONTRACTOR MUST PROVIDE AND INSTALL TWO WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL. ALL TYPE III BARRICADES REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- 14. LOCATIONS OF ACCESS CONTROL FENCING AS SHOWN ON THE PLANS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO BETTER FIT FIELD CONDITIONS.
- 15. THE LOCATION OF VARIOUS ITEMS SUCH AS PAVEMENT, BARRIER WALLS, ELECTRICAL SYSTEMS AND DRAINAGE STRUCTURES BUILT IN CONTRACTS UNDER CONSTRUCTION DURING THE PREPARATION OF THESE PLANS IS BASED ON THE PUBLISHED CONTRACT PLAN DRAWINGS AVAILABLE DURING DESIGN. THE CONTRACTOR MUST FIELD VERIFY LIMITS, LOCATIONS AND ELEVATIONS OF THESE PREVIOUSLY CONSTRUCTED ITEMS.
- 16. CRUSHING PLANT AND CONCRETE PLANT LOCATIONS REQUIRE CITY OF CHICAGO APPROVAL.
- 17. THE CONTRACTOR IS ALERTED THAT THERE ARE EXISTING CTA UTILITY FACILITIES WITHIN, ADJACENT TO, AND CROSSING UNDER THE EXPRESSWAY FROM THE FRONTAGE ROADS TO THE CTA OPERATING AREA. THE EXACT LOCATION OF THESE FACILITIES IS NOT KNOWN. THE CONTRACTOR MUST CONTACT THE CTA AT 312-681-3860 FOR LOCATIONS OF THESE FACILITIES BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE CT OPERATING AREA, FOR ADDITIONAL INFORMATION REGARDING BURIED CONDUITS, CONTACT MR, RICK STRAUBEL, MANAGER TECH SUPPORT, AT 312-922-0508.
- 18. THE CONTRACTOR MUST USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED, ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- 19. THE CONTRACTOR MUST MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED. THE CONTRACTOR MUST PROVIDE AND MAINTAIN EMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR MUST PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME, THE CONTRACTOR MUST PROVIDE AND MAINTAIN A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY ONNECTIONS UNTIL INSTALLATION IS COMPLETE INCLUDING PAVEMENT. THIS WORK MUST NOT BE PAID FOR SEPERATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THIS CONTRACT.
- 20. 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.
- 21. ALL RELOCATION OF EXISTING SIGNS IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL CONFORM TO ARTICLE 7.25 OF THE STANDARD SPECIFICATIONS. EXISTING SIGNS TO BE RELOCATED IN PROPOSED CONCRETE MEDIAN SURFACE SHALL BE INSTALLED USING A SLEEVE OR BY CORING THE CONCRETE MEDIAN SURFACE. THE SLEEVE AND CORING OPERATIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER. EXISTING SIGNS TO BE RELOCATED NTO PROPOSED KNEE WALL FOOTINGS SHALL BE INSTALLED ACCORDING TO SECTIONS 728 AND 731 OF THE STANDARD PECIFICATIONS. LABOR AND MATERIALS FOR RELOCATION OF EXISTING SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE FLUTED KNEE WALL.
- 11. ALL ELEVATIONS IN THIS PLAN SET ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION 22. THE INTENT OF THE CONTRACT DOCUMENTS IS TO CONSTRUCT THE FLUTED KNEE WALL BEHIND THE EXISTING CURB AND GUTTER, ANY DAMAGE TO THE EXISTING CURB AND GUTTER SHALL BE REPAIRED TO THE ORIGINAL CONDITION OF THE CURB AND GUTTER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

GENERAL NOTES: CITY OF CHICAGO

- 1. IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS, PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR MUST IMMEDIATELY CONTACT THE DEPARTMENT OF WATER MANAGEMENT AT (312) 747-7892 OR (312) 747-7893.
- 13. SUPERSTRUCTURE RATING COARSE AGGREGATE MUST BE USED IN THE CONCRETE BARRIER WALL CONCRETE MIXTURE. 2, BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT AT 333 SOUTH STATE STREET, SUITE 410, CHICAGO, IL 60604. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION.
 - 3. IN LOCATIONS WHERE THE MAIN SEWERS, DRAINAGE STRUCTURES, PUBLIC, AND PRIVATE DRAIN CONNECTIONS ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS/HER OWN EXPENSE TO THE SATISFACTION OF THE DEPARTMENT OF WATER MANAGEMENT. THE SEWER FLOWS MUST BE MAINTAINED AT ALL TIMES.
 - 4. EXTREME CAUTION IS TO BE TAKEN TO ENSURE THAT NO FACILITY OWNED AND MAINTAINED BY THE DEPARTMENT OF WATER MANAGEMENT IS DAMAGED DURING CONSTRUCTION. IF ANY DAMAGE OCCURS TO ANY FACILITIES. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE COST OF REPAIRING OR REPLACING THEM.
 - 5. CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES MUST NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT.
 - THE CHICAGO TRANSIT AUTHORITY (CTA) HAS BUS OPERATIONS ALONG WENTWORTH AVENUE. THE CONTRACTOR MUST INFORM THE CTA REPRESENTATIVE MS. CHARLENE RIFFER (GENERAL MANAGER CONSTRUCTION) OF THE ON-GOING PROJECT SCHEDULE STARTING 28 DAYS BEFORE THE START OF CONSTRUCTION AT (312) 681-3851.

REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) SOUTHBOUND KNEE WALLS (43RD ST TO ROOT ST) GENERAL NOTES SCALE: NONE DRAWN BY: JDC

CHECKED BY: RS

DATE: 04/25/08

ROWMAN BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com

SUMMARY OF QUANTITIES

IRB	AN	
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				100% STATE
CODE NO.	ITEM	UNIT	QUANTITY	J000
20200100	EARTH EXCAVATION	CU YD	113	113
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	5	5
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	120	120
25000210	SEEDING, CLASS 2A	ACRE	0.003	0.00
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6	6
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	6	6
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6	6
25001800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.06	0.06
25100630	EROSION CONTROL BLANKET	SQ YD	315	315
44002300	CURB REMOVAL (PARTIAL)	FOOT	59	59
44004250	PAVED SHOULDER REMOVAL	SQ YD	87	87
50300225	CONCRETE STRUCTURES	CU YD	5.5	5.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	5.1	5.1
50300300	PROTECTIVE COAT	SQ YD	23	23
50300510	RUSTICATION FINISH	SQ FT	44	44
50800 1 05	REINFORCEMENT BARS, EPOXY COATED	POUND	1,050	1,050
60618324	CONCRETE MEDIAN SURFACE, 6. (SPECIAL)	SQ FT	187	187
66400550	CHAIN LINK FENCE, 4' (SPECIAL)	FOOT	494	494
67100100	MOBILIZATION	L SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	26	26
X0323973	SEDIMENT CONTROL, SILT FENCE	FOOT	560	560
X0323974	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	FOOT	140	140
X0324640	FLUTED KNEE WALL	FOOT	443	443
X2500322	SEEDING, CLASS 5A, (MODIFIED)	ACRE	0.06	0.06
X6065740	CONCRETE MEDIAN SURFACE, 5" (MODIFIED)	SQ FT	13	13
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0030020	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	11
		-		

F.A.I.	SECTIO	4.	COUN	TY	TOTAL	SHEET NO.
94/90	*		coo	K	25	3
STA.		TO	STA.			
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62996

INDEX OF SHEETS

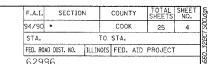
SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES AND PROJECT COMMITMENTS
3	SUMMARY OF QUANTITIES / INDEX / HIGHWAY STANDARDS
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5-9	ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS
10-12	EXISTING AND PROPOSED KNEE WALL PLANS
13-15	STRUCTURAL DETAILS
16	BD-51 DISTRICT 1, BENCHING DETAIL FOR EMBANKMENT WIDENING
17	TC-10 DISTRICT 1. TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS
18	TC-17 DISTRICT 1, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES
19	TC-18 DISTRICT 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
20	TC-22 DISTRICT 1, ARTERIAL ROAD INFORMATION SIGN
21-25	CROSS SECTIONS

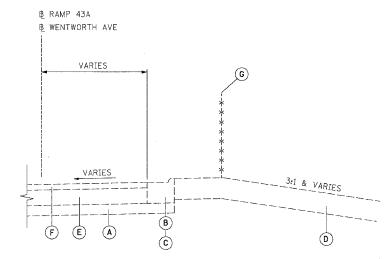
IDOT HIGHWAY STANDARDS

100	1 HIGHWAY STANDANDS
SHEET	DESCRIPTION
000001- 05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
664001 -01	CHAIN LINK FENCE
701601- 05	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701 -05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801 - 03	LANE CLOSURE, MULTILANE; 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, for speeds < 45 mph
701901	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006 -01	SIGN PANEL ERECTION DETAILS
728001	TELESCOPING STEEL SIGN SUPPORT
731001	BASE FOR TELESCOPING STEEL SIGN SUPPORT

			500-1
REVISIO	NS	TILIMOTS DEPARTMEN	T OF TRANSPORTATION
NAME	DATE	ILLINOIS DEL ANTMEN	II OI INANSFORTATION
		F.A.T. 94/90 (DAN	RYAN EXPRESSWAY
			S (43RD ST TO ROOT ST)
		SOUTHBOOND KNEE WALL	-5 (43KD 51 10 KOO1 51)
		CUMMARY OF	CHANTITICS
		SUMMART OF	QUANTITIES
		SCALE: NONE	00.4841.014.100
		SCALE: NUNE	DRAWN BY: JDC
		DATE: 04/25/08	CHECKED BY:
			* *

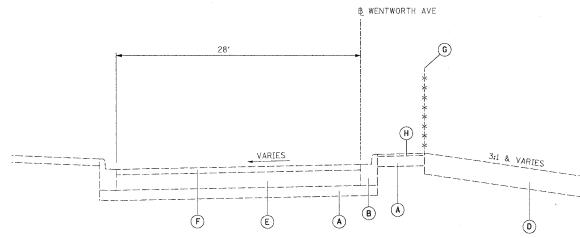
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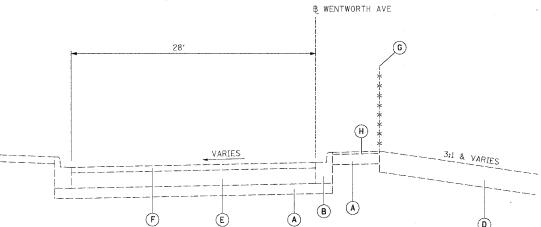


EXISTING TYPICAL SECTION

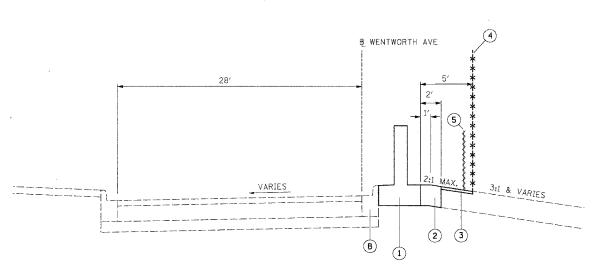
STA. 30+70.65 to 5046+93



EXISTING TYPICAL SECTION



STA. 37+68.16 to 39+93



PROPOSED TYPICAL SECTION

STA. 30+70.65 to 5047+29



STA. 37+87.41 to 39+83

- 1. THICKNESS OF EXISTING PAVEMENT AND GRANULAR MATERIAL ARE TAKEN FROM RECORD DRAWING PLANS.
- 2. TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.

PROPOSED LEGEND

EXISTING LEGEND

GRANULAR MATERIAL, 6"

BITUMINOUS CONCRETE, 3" CHAIN LINK FENCE, 4'

BITUMINOUS MEDIAN SURFACE, 11/2"

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24

PORTLAND CEMENT CONCRETE PAVEMENT, 9"

- FLUTED KNEE WALL
- SEEDING, CLASS 4 (MODIFIED) / SEEDING, CLASS 5A (MODIFIED) / TOPSOIL FURNISH AND PLACE, 12" / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / SEEDING CLASS 5A (MODIFIED) / EROSION CONTROL BLANKET
 - CHAIN LINK FENCE, 4' (SPECIAL)
 - SEDIMENT CONTROL, SILT FENCE
 - (TO BE REMOVED AT PROJECT COMPLETION)

TYP-1

CHECKED BY: RS

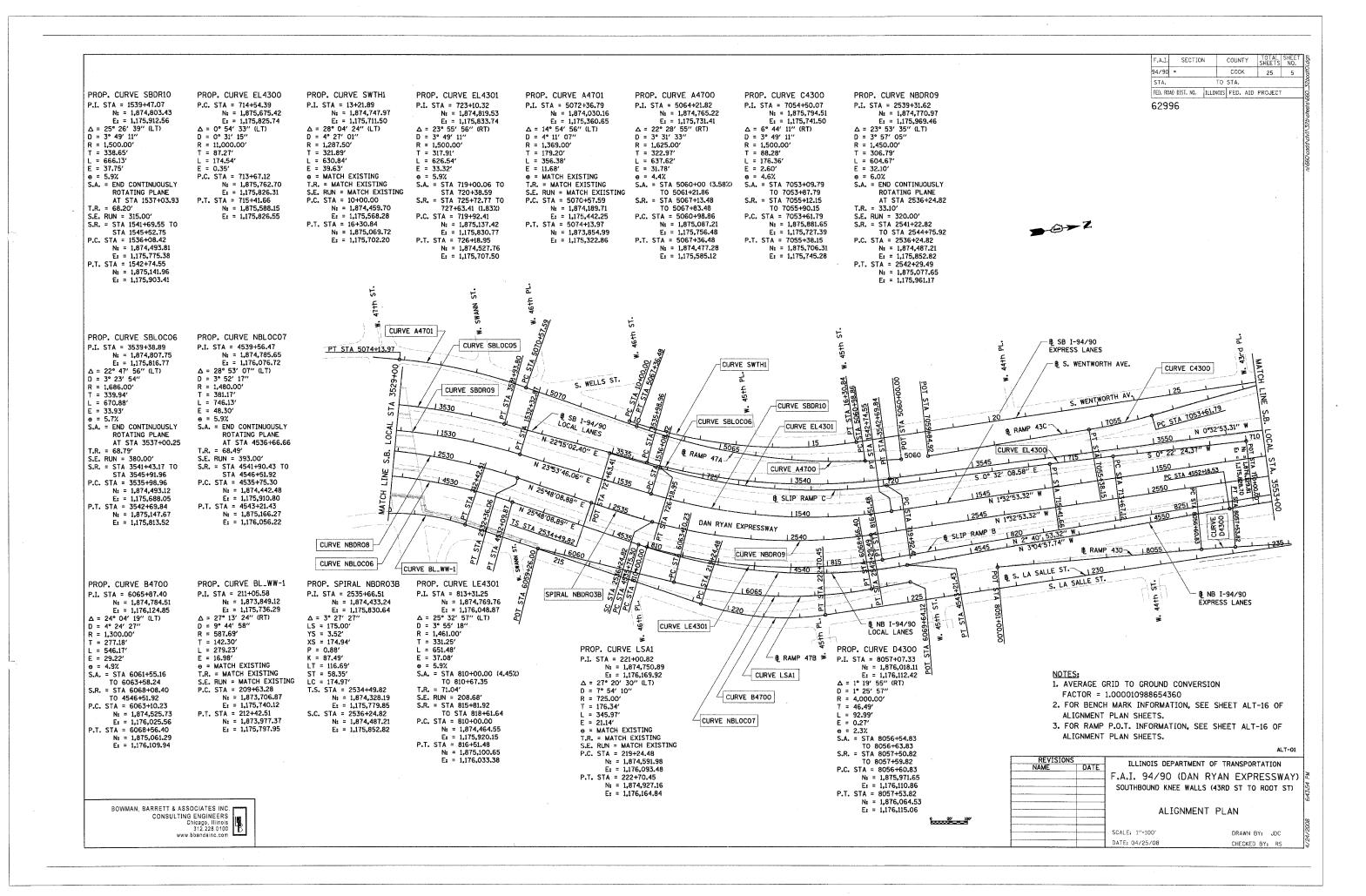
REVISIONS NAME	DATE	ILLINOIS DEPARTM	MENT OF TRANSPORTATION
NAVIC	DATE	F.A.I. 94/90 (DA	N RYAN EXPRESSWAY)
		SOUTHBOUND KNEE WA	ALLS (43RD ST TO ROOT ST)
		TYPICAL	SECTIONS
***************************************		SCALE: NTS	DRAWN BY: JDC

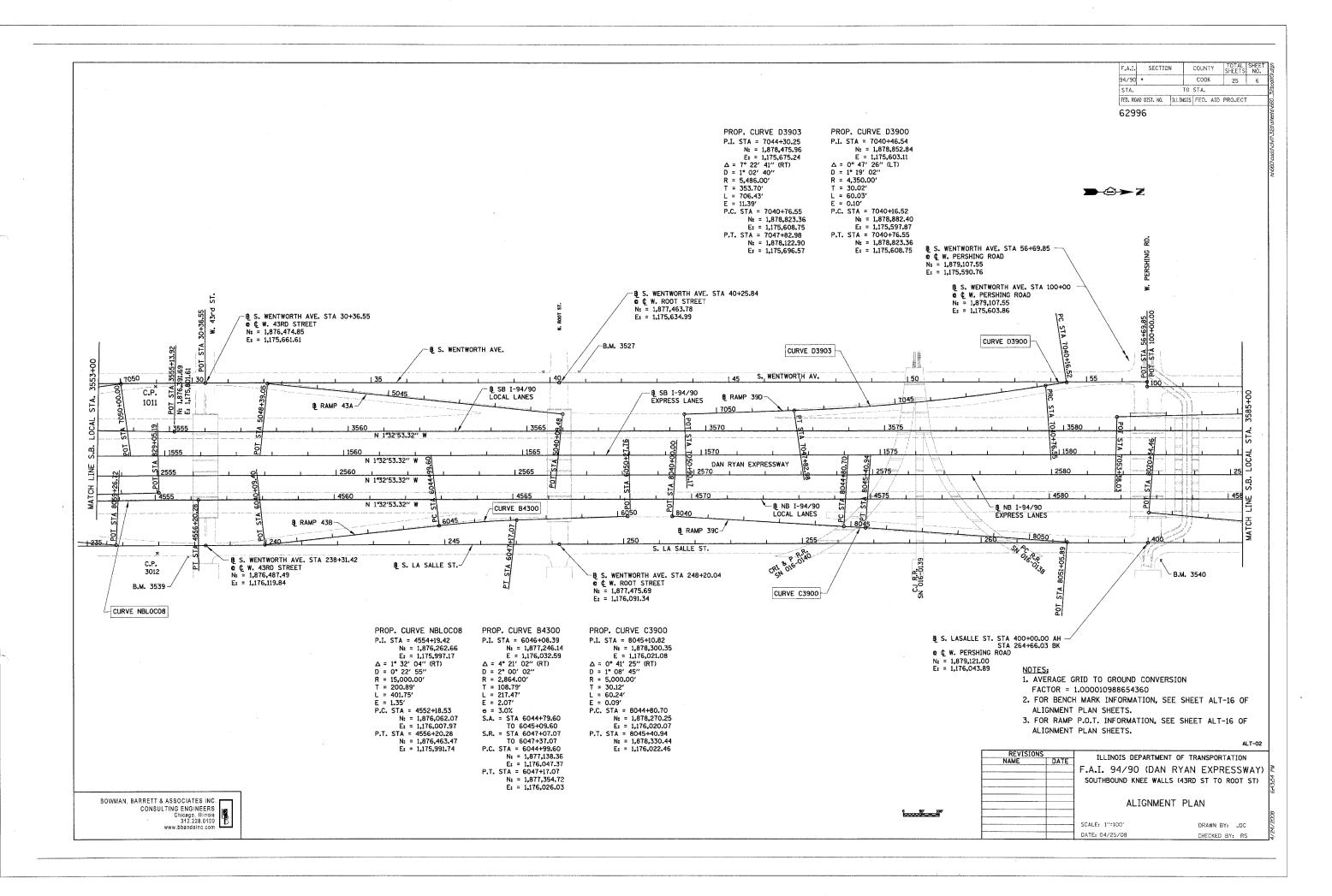
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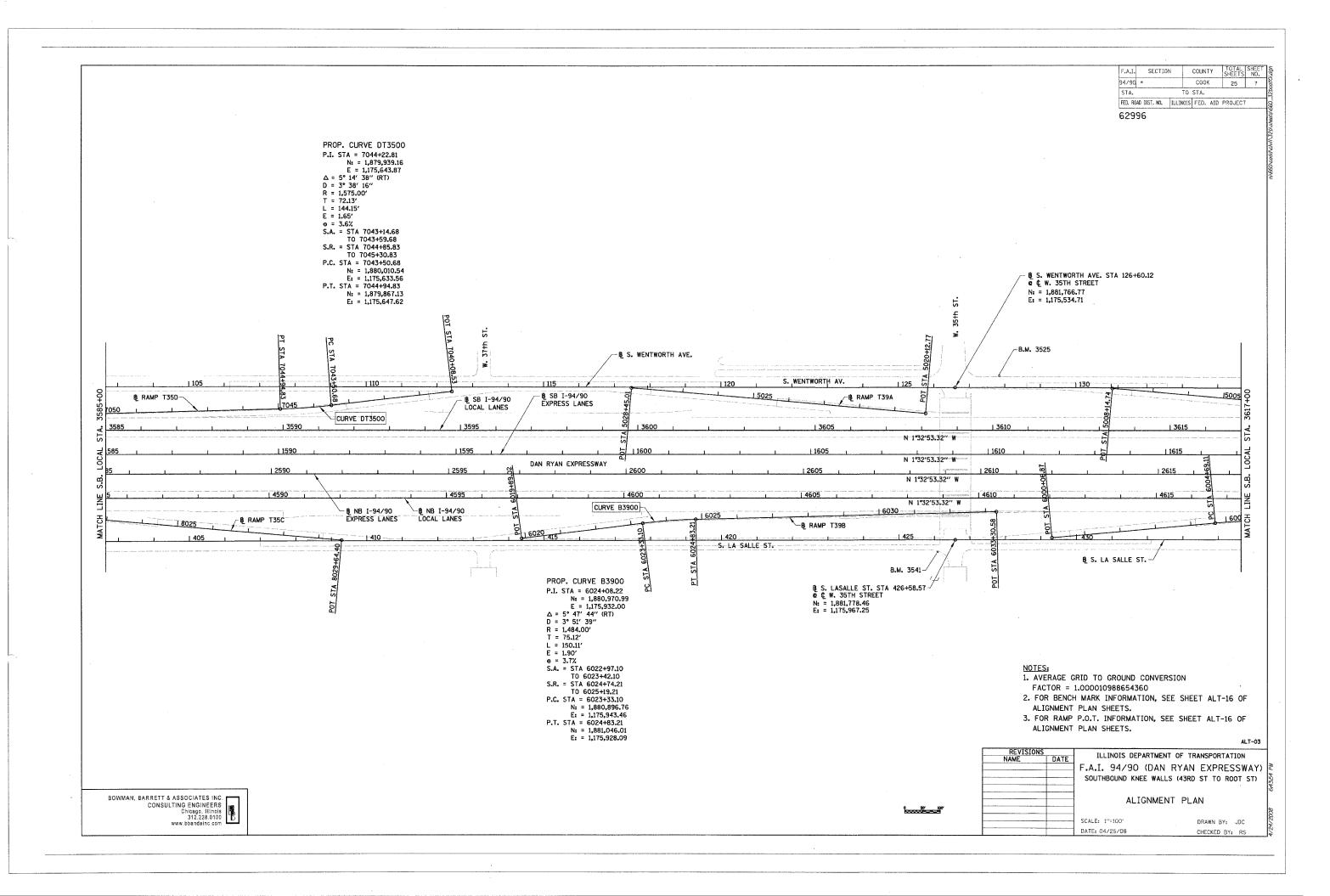
B RAMP 43A B WENTWORTH AVE

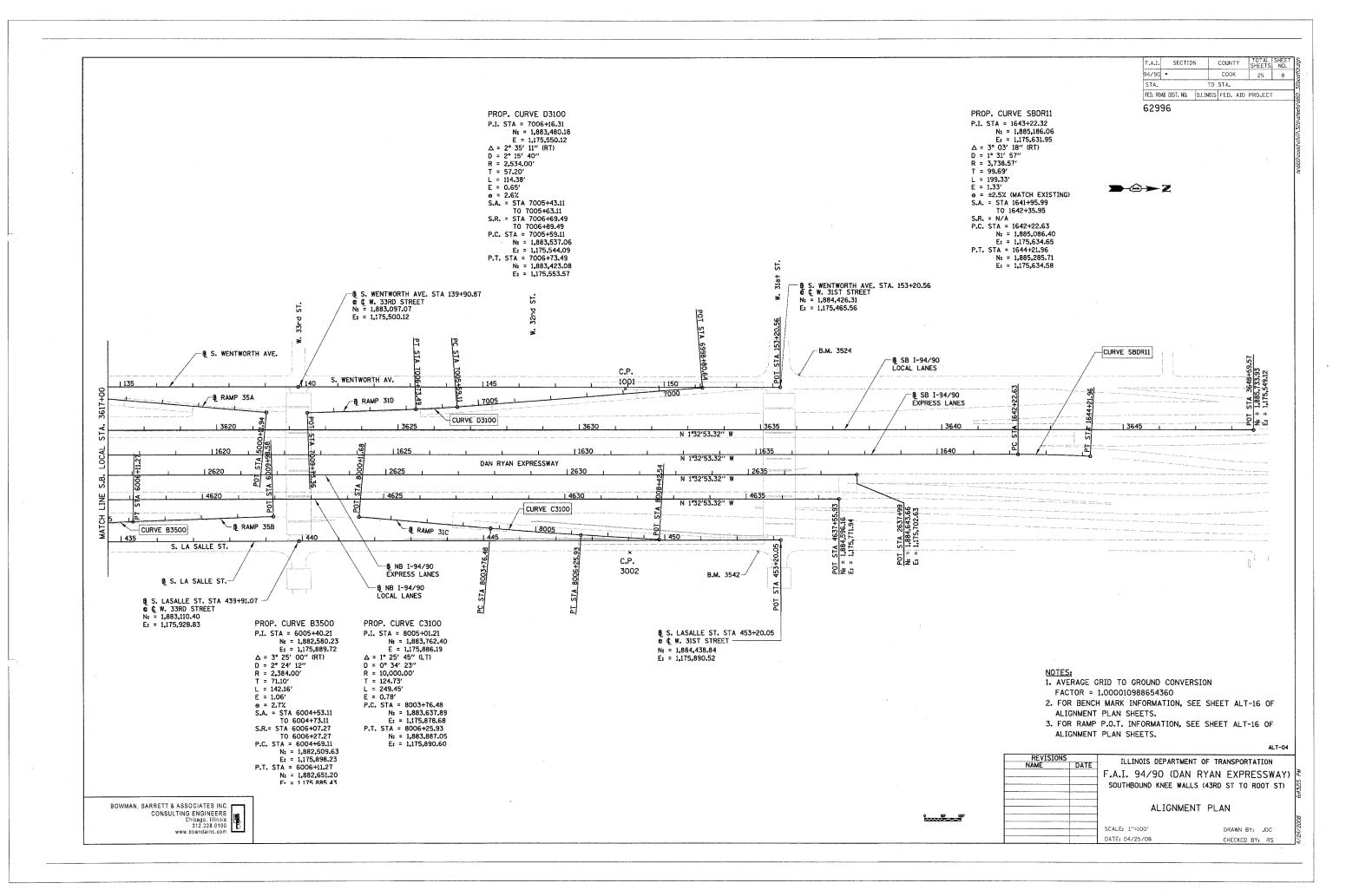
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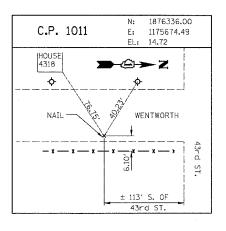
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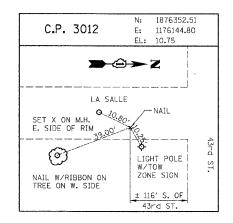


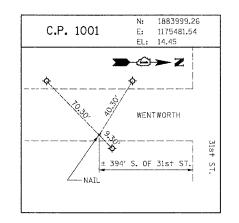


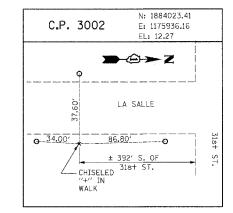












RAMP P.O.T. COORDINATE INFORMATION

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP 47A	5060+00.00	1,875,185.77	1,175,764.15
END	RAMP 47A	5074+13.97	1,873,854.99	1,175,322.86
BEGIN	RAMP 47B	6059+26.00	1,874,166.99	1,175,887.94
END	RAMP 47B	6069+64.12	1,875,168.85	1,176,104.15
BEGIN	RAMP 43C	7050+00.00	1,876,238.80	1,175,669.59
END	RAMP 43C	7059+84.92	1,875,259.95	1,175,764.44
BEGIN	RAMP 43D	8051+00.00	1,875,411.12	1,176,092.10
END	RAMP 43D	8059+26.72	1,876,237.16	1,176,124.86
BEGIN	RAMP 43A	5040+09.48	1,877,475.98	1,175,723.30
END	RAMP 43A	5048+39.05	1,876,648.91	1,175,658.90
BEGIN	RAMP 43B	6040+09.40	1,876,652.70	1,176,113.96
END	RAMP 43B	6050+27.76	1,877,664.85	1,176,007.29
BEGIN	RAMP 39D	7040+16.52	1,878,882.40	1,175,597.87
END	RAMP 39D	7050+90.17	1,877,816.27	1,175,715.09
BEGIN	RAMP 39C	8040+00.00	1,877,789.82	1,176,003.91
END	RAMP 39C	8051+05.89	1,878,894.81	1,176,048.24

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP T35D	7040+08.53	1.880.349.18	1,175,584.62
END	RAMP T35D	7053+38.03	1,879,025.07	1,175,691.43
BEGIN	RAMP T35C	8020+34,46	1.879.121.15	1,175,958,93
END	RAMP T35C	8029+64.40	1,880,049.40	1,176,014.92
BEGIN	RAMP T39A	5020+12.77	1,881,685,70	1.175.610.45
END	RAMP T39A	5028+45.01	1,880,854.96	1,175,560.34
BEGIN	RAMP T39B	6019+89.02	1,880,556.70	1,175,995.95
END	RAMP T39B	6033+30.58	1,881,892.23	1,175,884.04
BEGIN	RAMP 35A	5000+11.94	1,883,011.02	1,175,573,65
END	RAMP 35A	5008+14.74	1,882,209.69	1,175,525.14
BEGIN	RAMP 35B	6000+06.87	1,882,050.72	1,175,953.56
END	RAMP 35B	6009+98.58	1,883,037.81	1,175,862.08
BEGIN	RAMP 31D	6998+80.64	1,884,211.76	1,175,472.66
END	RAMP 31D	7009+73.36	1,883,123.75	1,175,571.65
BEGIN	RAMP 31C	8000+11.68	1,883,273.75	1,175,856.72
END	RAMP 31C	8008+42.54	1,884,103.52	1,175,898.24

BENCH MARK NO. 3524 ELEV. 15.17

DESCRIPTION:

CROSS CUT ON NORTH FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 31st ST. AND WENTWORTH AVE.

BENCH MARK NO. 3525 ELEV. 16.93

DESCRIPTION: CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER. OF 35th ST. AND WENTWORTH AVE.

BENCH MARK NO. 3526 ELEV. 17.37

DESCRIPTION: CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE WENTWORTH GARDEN OFFICE ALONG THE WEST SIDE OF WENTWORTH AVE.

BENCH MARK NO. 3527 ELEV. 15.63

DESCRIPTION:

CROSS CUT ON NORTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF ROOT ST. AND WENTWORTH AVE.

BENCH MARK NO. 3539 ELEV. 13.10

DESCRIPTION:

CROSS CUT ON EASTERLY BOLT OF LIGHT POLE BASE AT THE SOUTHEAST CORNER OF 43rd ST. AND LA SALLE ST.

BENCH MARK NO. 3540 ELEV. 12.33

DESCRIPTION:

SOLARE CUT ON THE SOUTHWEST CORNER OF THE TRAFFIC CONTROL BOX AT THE NORTHEAST CORNER OF 39th ST. AND LA SALLE ST.

BENCH MARK NO. 3541 ELEV. 14.78

DESCRIPTION: CROSS CUT ON THE SOUTHWEST BOLT OF LIGHT POLE BASE AT THE SOUTH EAST CORNER OF 35th ST. AND LA SALLE ST.

BENCH MARK NO. 3542 ELEV. 13,57

DESCRIPTION:

CROSS CUT ON THE EASTERLY FLANGE BOLT OF THE FIRE HYDRANT AT THE INTERSECTION OF 31st ST. AND LA SALLE ST.

SCALE: 1"=100" DATE: 04/25/08

DRAWN BY: JDC CHECKED BY: RS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100

ALT-05 ILLINOIS DEPARTMENT OF TRANSPORTATION DATE F.A.I. 94/90 (DAN RYAN EXPRESSWAY) ₹ SOUTHBOUND KNEE WALLS (43RD ST TO ROOT ST) ALIGNMENT PLAN

SECTION

TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

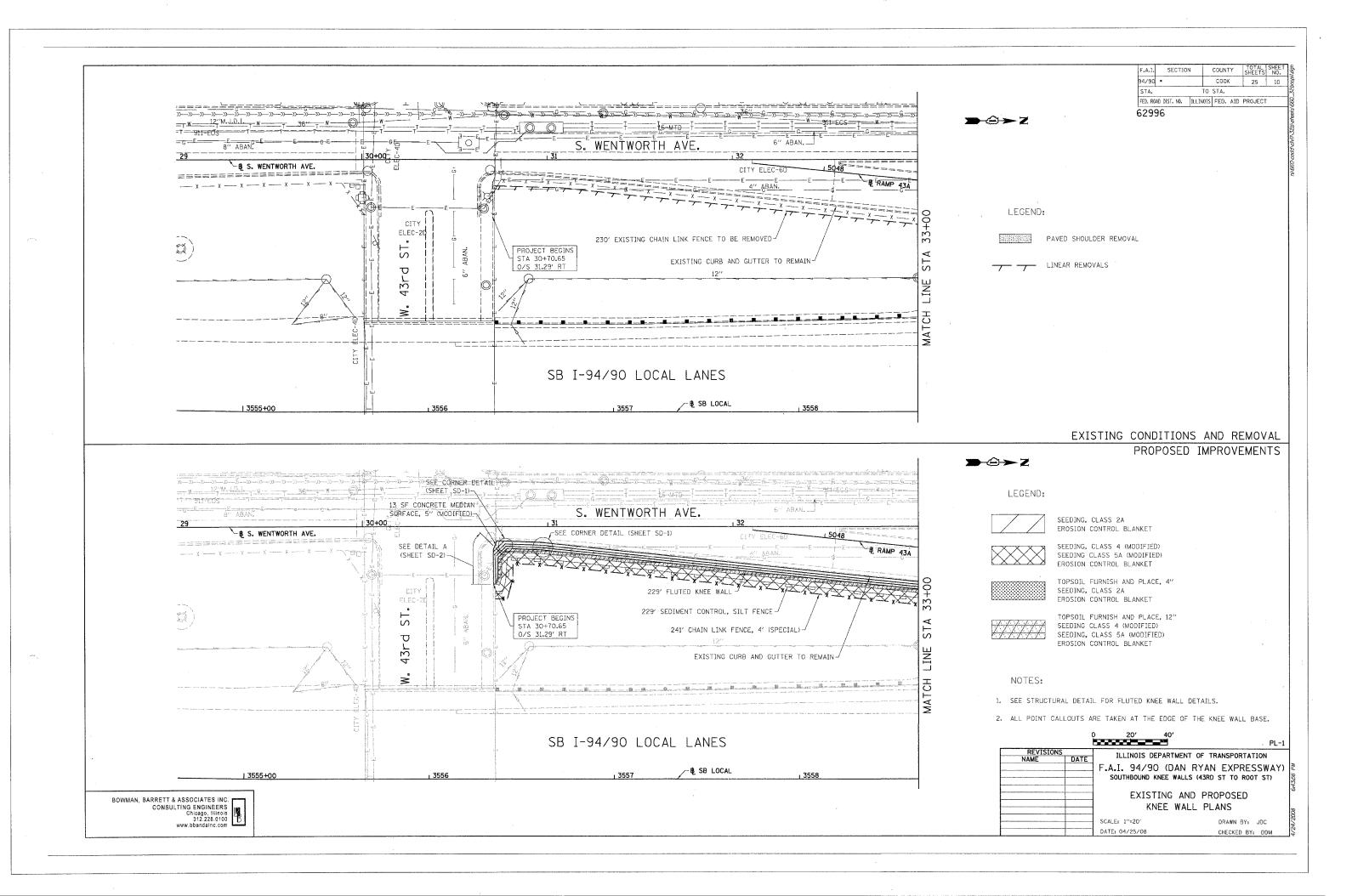
F.A.I. 94/90 •

STA.

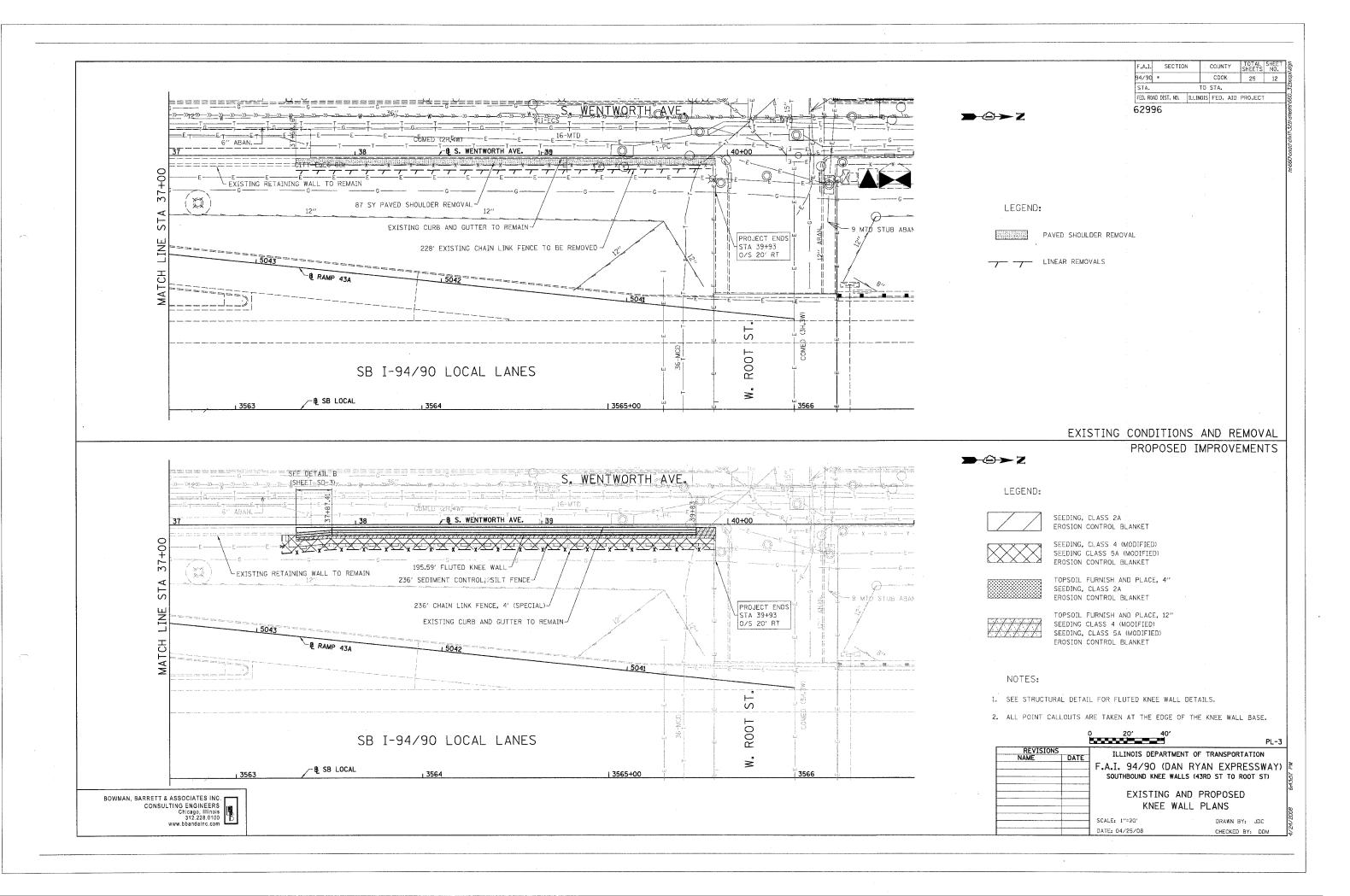
62996

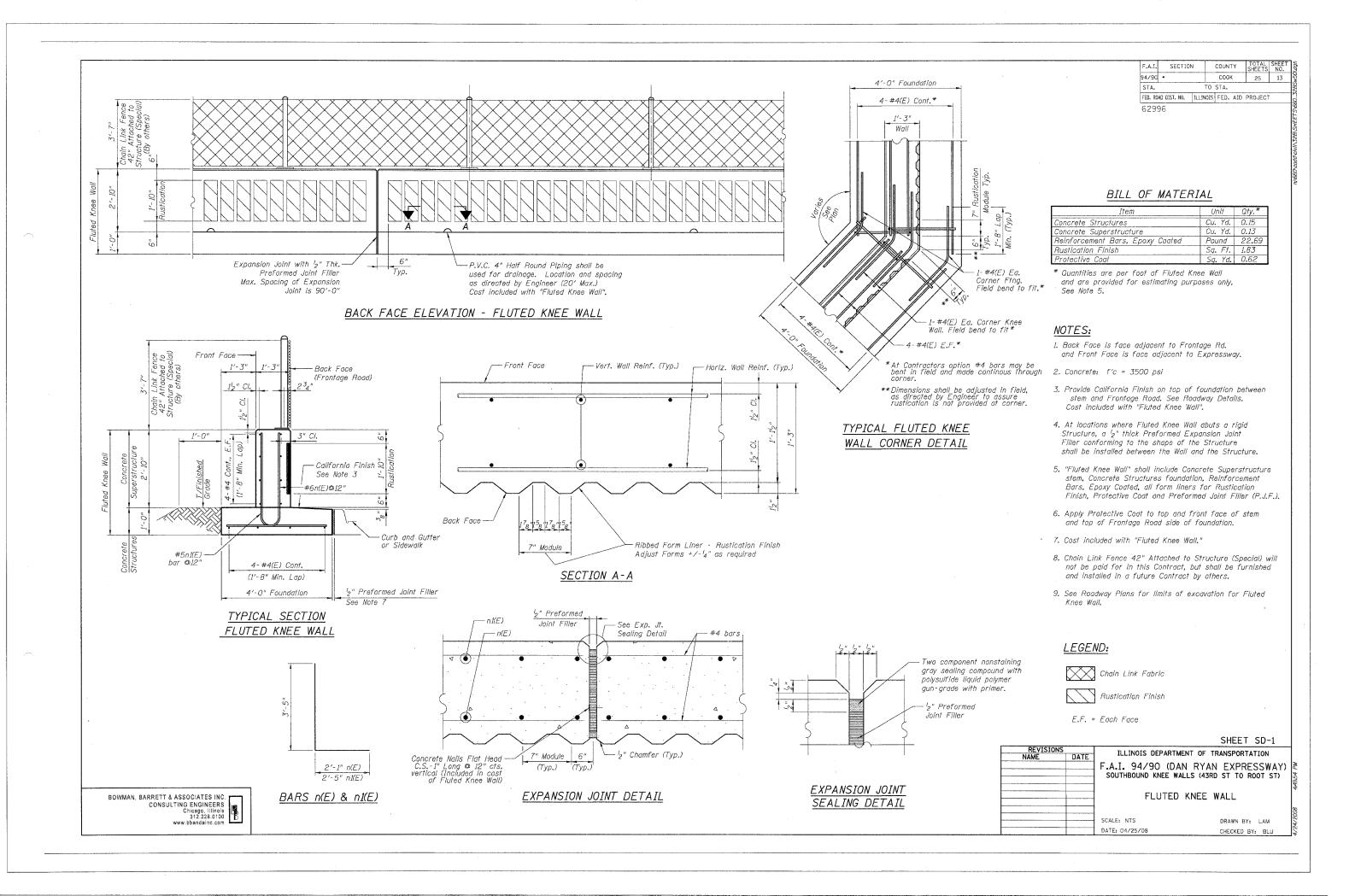
COUNTY TOTAL SHEET NO.

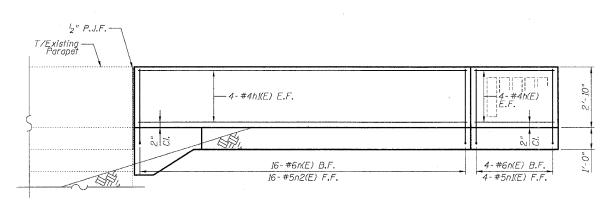
COOK 25 9



 $\Rightarrow \hat{\omega} \rightarrow Z$ 94/90 • COOK STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 62996 S. WENTWORTH AVE. COMED (2H,4W) R. S. WENTWORTH AVE. LEGEND: _EXISTING RETAINING WALL TO REMAIN PAVED SHOULDER REMOVAL _____ LINEAR REMOVALS 15046 - 59' CURB REMOVAL (PARTIAL) Ø 19' EXISTING CHAIN LINK FENCE TO BE REMOVED SB I-94/90 LOCAL LANES /- BL SB LOCAL 1 3560+00 13562 **→ ② → Z** EXISTING CONDITIONS AND REMOVAL PROPOSED IMPROVEMENTS $\rightarrow \bigcirc \rightarrow Z$ LEGEND: S. WENTWORTH AVE. /- BE S. WENTWORTH AVE. EXISTING RETAINING WALL TO REMAIN SEEDING, CLASS 2A EROSION CONTROL BLANKET -187 SF CONC MED SURFACE, 6" (SPECIAL) SEEDING, CLASS 4 (MODIFIED) 15047 SEEDING CLASS 5A (MODIFIED) EROSION CONTROL BLANKET TOPSOIL FURNISH AND PLACE, $4^{\prime\prime}$ SEEDING, CLASS 2A FEXISTING CURB AND GUTTER TO REMAIN EROSION CONTROL BLANKET TOPSOIL FURNISH AND PLACE, 12" SEEDING CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET └83' SEDIMENT CONTROL, SILT FENCE NOTES: -IMPACT ATTENUATOR (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 1. SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS. 2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE. 17' CHAIN LINK FENCE, 4' (SPECIAL) 0 20′ 40 SB I-94/90 LOCAL LANES PL-2 18' FLUTED KNEE WALL ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) ∕ B SB LOCAL 3560+00 3559 SOUTHBOUND KNEE WALLS (43RD ST TO ROOT ST) EXISTING AND PROPOSED BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS
Chicago, illinois
312.228.0100
www.bbandainc.com KNEE WALL PLANS SCALE: 1"=20" DRAWN BY: JDC DATE: 04/25/08 CHECKED BY: DDM

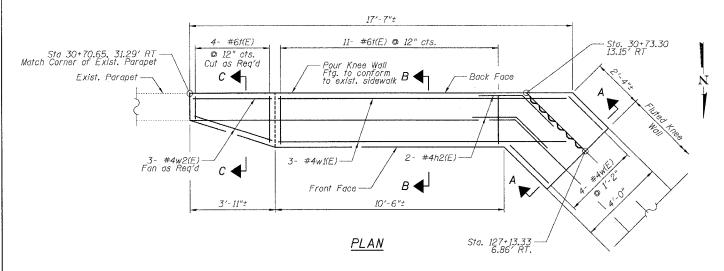


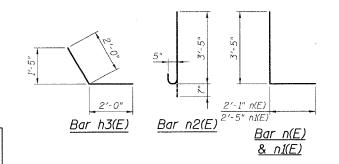




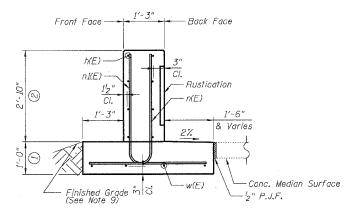
UNFOLDED FRONT FACE ELEVATION

W. 43rd St.

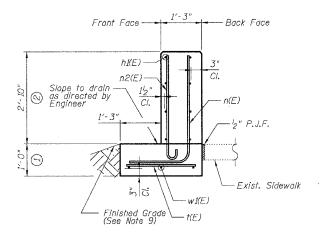




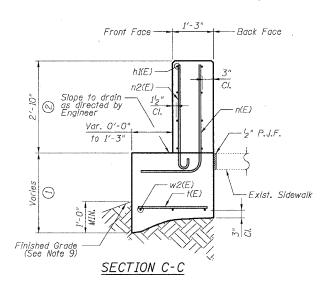
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CONSULTING ENGINEERS
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SECTION A-A



SECTION B-B



	_					
FED. ROAL	D DIST. NO.	ILLINOIS	FED.	AID	PROJECT	
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94/90	•		COO	<	25	14
F.A.I.	SECTION	1	COUN.	ΓY	SHEETS	SHE

62996

DETAIL A REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#4	3′-6"	
h1(E)	8	#4	15'-1"	
h2(E)	2	#4	4'-0"	
n(E)	20	#6	5′-6"	L
n1(E)	4	#5	5′-10"	L
n2(E)	16	#5	4'-0"	c
t(E)	15	#6	2'-2"	
w(E)	4	#4	2'-0"	
w1(E)	3	#4	13'-2"	
w2(E)	3	#4	3′-6"	
	Item		Unit	Qty.
Concrete Structures			Cu. Yd.	2.1
Concrete Superstructure			Cu. Yd.	2.5
Reinforcement Bars, Epoxy Coated			Pound	450
Rustic	Rustication Finish			8
Protec	ctive Co	at	Sq. Yd.	9

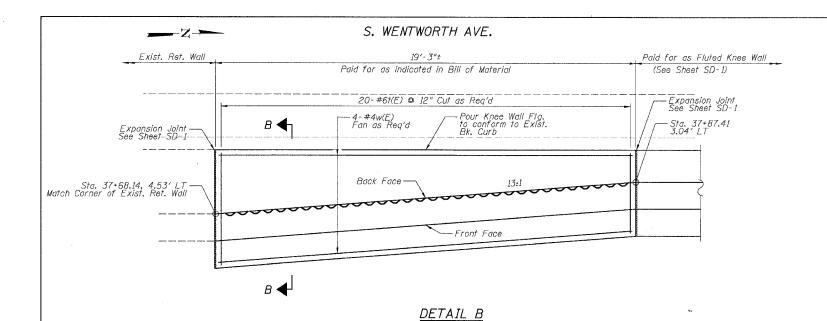
NOTES:

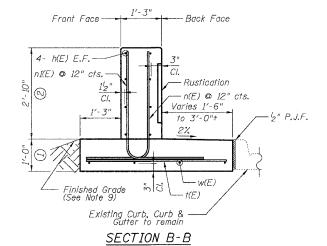
- 1. All stations and offsets measured from S. Wentworth Ave. 2.
- Back Face is face adjacent to Frontage Rd. and Front Face is face adjacent to Expressway,
- 3. Concrete: f'c = 3500 psi
- 4. Provide California Finish on top of foundation between stem and Frontage Road. See Roadway Details.
- 5. At locations where Fluted Knee Wall abuts a rigid Structure, a b" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Fluted Knee Wall and the Structure.
- 6. Apply Protective Coat to top and back face of stem and top of Frontage Road side of foundation.
- 7. For Fluted Knee Wall standard details, see Sheet SD-1
- 8. B.F. = Back Face (Frontage Road Side) F.F. = Front Face (Expressway Side) E.F. = Each Face
- 9. Shape finished grade as required to match existing conditions.
- 10. P.J.F. included in cost of concrete structures.

SHEET SD-2

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	1
NAME	DATE	ILLINOIS DEFARIMENT OF TRANSPORTATION	
		F.A.I. 94/90 (DAN RYAN EXPRESSWAY)	ď.
		SOUTHBOUND KNEE WALLS (43RD ST TO ROOT ST)	28
		TO THE TIMES COME ST TO HOUT ST	Q.
			4
		DETAIL A	i
		J	ı

SCALE: NTS DATE: 04/25/08 DRAWN BY: TL CHECKED BY: BLU





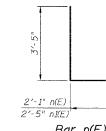
F.A.I. SECTIO	N	COUNTY	TOTAL SHEETS	SHEET NO.
94/90 •		COOK	25	15
STA.	TO	STA.		
FED. ROAD DIST, NO.	ILLINOIS	FED. AID	PROJECT	

DETAIL B REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	8	#4	18'-10"	
	n(E)	20	#6	5′-6"	L.
	nI(E)	20	#5	5′-10"	L
	†(E)	20	#6	5′-2"	
	w(E)	4	#4	18'-10"	
		Item		Unit	Qty.
1	Concrete Structures			Cu. Yd.	3.4
2	Concrete Superstructure			Cu. Yd.	2.6
	Reinforcement Bars, Epoxy Coated			Pound	600
	Rustic	ation F	inish	Sq. Ft.	36
	Protec	tive Co	at	Sq. Yd.	14

NOTES:

- 1. All stations and offsets measured from S. Wentworth Ave. B.
- Back Face is face adjacent to Frontage Rd. and Front Face is face adjacent to Expressway,
- 3. Concrete: f'c = 3500 psi
- 4. Provide California Finish on top of foundation between stem and Frontage Road, See Roadway Details.
- 5. At locations where Fluted Knee Wall abuts a rigid Structure, a '2" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Fluted Knee Wall and the Structure.
- 6. Apply Protective Coat to top and back face of stem and top of Frontage Road side of foundation.
 - For Fluted Knee Wall standard details,
- 8. B.F. = Back Face (Frontage Road Side) F.F. = Front Face (Expressway Side) E.F. = Each Face
- 9. Shape finished grade as required to match existing conditions.
- 10. P.J.F. included in cost of concrete structures.



SCALE: NTS

DATE: 04/25/08

<u>Bar n(E)</u> <u>& n1(E)</u>

CHEET CD. 7

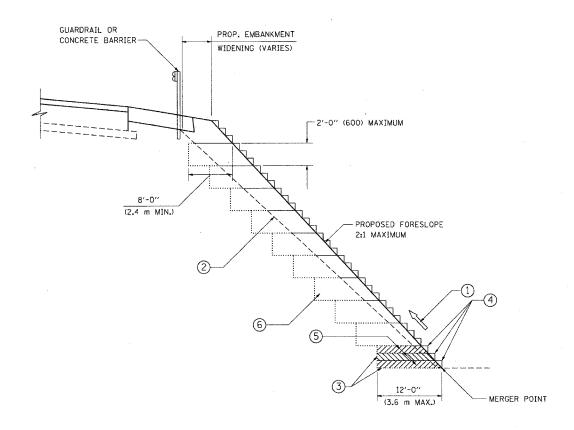
DRAWN BY: TL

CHECKED BY: BLU

		SHEET SD-3	
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	٦
NAME E)ATE	TEETHOLO DE ARTIMENT OF TRANSPORTATION	
		F.A.I. 94/90 (DAN RYAN EXPRESSWAY)	ā
		SOUTHBOUND KNEE WALLS (43RD ST TO ROOT ST)	09.0
			4
		DETAILS B	
			-1
			8

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

F.A. SECTION 94/90 STA. COOK 25 16 TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



TYPICAL BENCHING DETAIL FOR EMBANKMENT

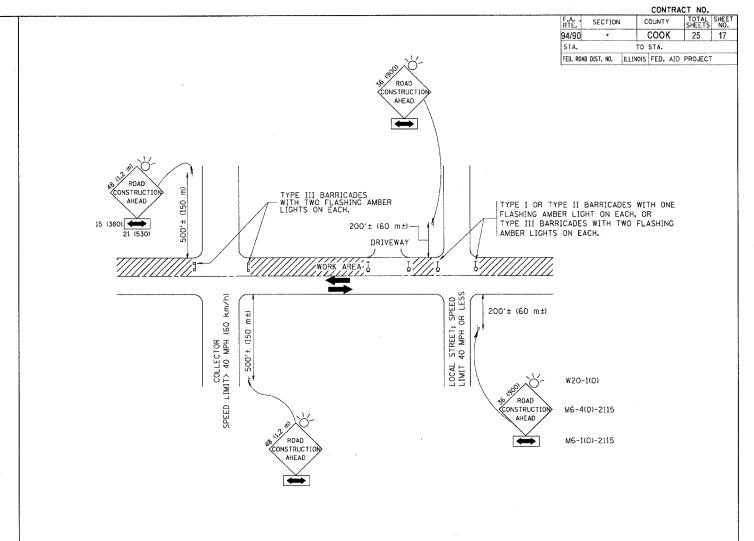
NOTES:

- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- 3 BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- 4 TRIM TO FINAL SLOPE.
- (5) EQUAL 8-INCH (200) LIFTS OF EMBANAMENT COUNTRY WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE
- 6 EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

ILLINOIS DEPARTMENT OF TRANSPORTATION BENCHING DETAIL FOR EMBANKMENT WIDENING SCALE: VERT, NONE

DRAWN BY: CADD CHECKED BY: S.E.B BD-51



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:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE
- 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:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE 111 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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.

KE A1210N2			
NAME	DATE		
LHA	6/89		
T. RAMMACHER	09/08/94		
J. OBERLE	10/18/95		
A. HOUSEH	03/06/96		
A. HOUSEH	10/15/96		
T. RAMMACHER	01/06/00		

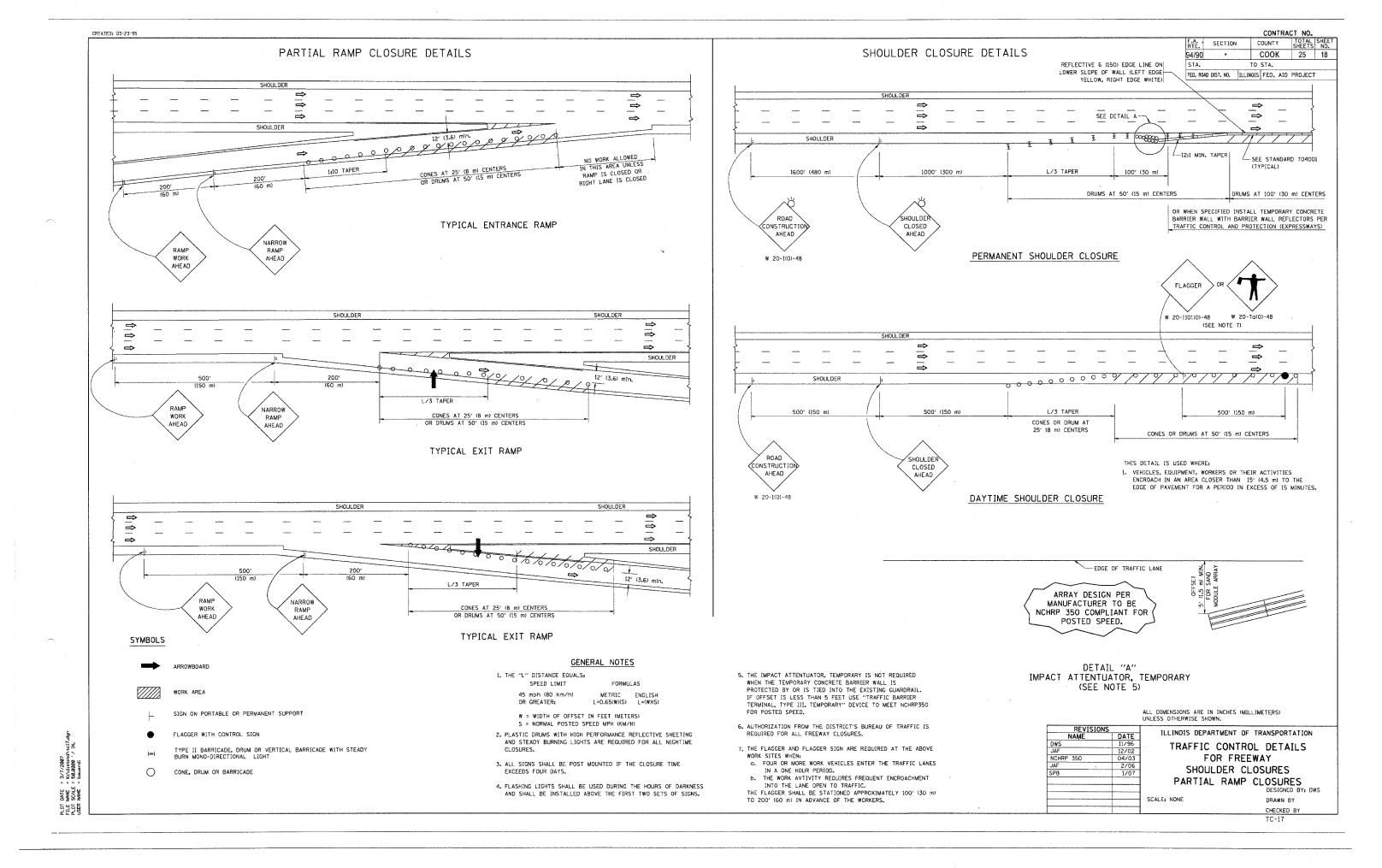
ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE

DRAWN BY CHECKED BY

TC-10

DATE NAME SCALE NAME



CONTRACT NO. SECTION COUNTY TOTAL SHE 94/90 STA. COOK 25 19 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT WORK ZONE EXIT OPENING - ARROWBOARD TYPE C (FLASHING A BAR OR 4-CORNER) FLAGGER BE PREPARED W20-I101(0)-48 W20-7g(0)-48 1000 8' (2.4 m) 5' (1.5 m) MIN. CLEAR HEIGHT FEET - BLACK LEGEND ORANGE REFL. BACKGROUND 500' (150 m) 300' (90 m) MIN. 500' (150 m) DRUMS @ 50' (15 m) C-C \Rightarrow FLAGGER WITH WORK ZONE ENTRY OPENING TRUCKS **LEAVING** (W21-I105) 500' (150 m) [100' (30 m)] 200' (60 m) OPENING 亩 TRAFFIC DIRECTION - FLAGGER WITH CONTROL SIGN NOTES: 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. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN 4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists ILLINOIS DEPARTMENT OF TRANSPORTATION SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS SCALE: NONE DRAWN BY CADD TC-18

