

**GENERAL NOTES:**

- 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 ON THE PLANS.
- 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 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.
- 10 FOOT TRANSITION LENGTHS MUST BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS MUST BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM IDOT.
- 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 COMMERCIAL AND RESIDENTIAL AREAS.
- ON STATE STANDARD 483001, SUBBASE GRANULAR MATERIAL, TYPE B, 24" MUST BE USED AS THE IMPROVED SUBGRADE. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE UNDER THE SHOULDER MUST BE INCLUDED IN THE COST PER SQ YARD OF "SUB-BASE GRANULAR MATERIAL, TYPE B, 24"."
- USE NO. 6 EPOXY-COATED TIE BARS CONFORMING TO ARTICLE 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL SAWED JOINT AS SHOWN ON IDOT STANDARD 420001 AND FOR TYING THE CURB AND GUTTER SECTIONS TO THE MAINLINE SHOULDERS AND PAVEMENT AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPARATELY. TIE BARS USED FOR LONGITUDINAL CONSTRUCTION JOINTS MUST BE INCLUDED IN THE COST OF CONT REINFORCED PCC PAVEMENT, 14". TIE BARS USED WITH CURB AND GUTTER MUST BE INCLUDED IN THE COST OF THE COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
- USE NO. 8 EPOXY-COATED TIE BARS IN LIEU OF NO. 6 BARS, CONFORMING TO ARTICLE 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINT AS SHOWN ON IDOT STANDARD 420001 AND FOR TYING SHOULDER SECTIONS TO THE MAINLINE PAVEMENT AND FOR TYING PCC CONCRETE WIDENING TO EXISTING CONCRETE PAVEMENT AND FOR TYING RAMP PAVEMENT TO EXISTING FRONTAGE ROAD CONCRETE BASE COURSE, AS SHOWN ON THE PLANS. TIE BARS USED FOR LONGITUDINAL CONSTRUCTION JOINTS MUST BE INCLUDED IN THE COST OF CONT REINFORCED PCC PAVEMENT, 14". TIE BARS USED WITH THE SHOULDERS MUST BE INCLUDED IN THE COST OF PCC SHOULDERS, 14". ALL OTHER TIE BARS MUST BE INCLUDED IN THE COST OF PCC BASE COURSE, 9".
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE MUST NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 3:1 (H:V).
- CHAIN LINK FENCE REMOVAL MUST BE CONSIDERED AS PART OF CLEARING.
- THE VARIATION IN WIDTH OF THE COMBINATION CONCRETE CURB AND GUTTER AS SHOWN ON THE PLANS MUST BE INCLUDED IN THE COST OF COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
- COMBINATION CURB AND GUTTER REMOVAL WILL BE MEASURED PER LINEAL FOOT. THE REMOVAL OF THE EXISTING BITUMINOUS OVERLAY OF THE GUTTER WILL NOT BE MEASURED FOR PAYMENT BUT IS INCLUDED IN THE CONTRACT UNIT PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.
- IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED FENCING OR WHERE PROPOSED FENCING TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
- THE CONTRACTOR MUST TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- 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.
- ALL ELEVATIONS IN THIS PLAN SET ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.

- 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.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE IDOT DISTRICT 1 "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE UNIT WEIGHT USED FOR ALL BITUMINOUS SURFACE MIXTURES IS 112 LB/SQ YD/IN.
- THE QUANTITY FOR BITUMINOUS MATERIALS (PRIME COAT) WAS DETERMINED USING AN APPLICATION RATE OF 0.0004 TONS/SQ YD.
- THE QUANTITY FOR AGGREGATE (PRIME COAT) WAS DETERMINED USING AN APPLICATION RATE OF 0.002 TONS/SQ YD.
- SUPERSTRUCTURE RATING COARSE AGGREGATE MUST BE USED IN THE CONCRETE BARRIER WALL CONCRETE MIXTURE.
- LOCATIONS OF ACCESS CONTROL FENCING AS SHOWN ON THE PLANS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO BETTER FIT FIELD CONDITIONS.
- THE LOCATION OF VARIOUS ITEMS SUCH AS PAVEMENT, BARRIER WALLS, 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.
- CRUSHING PLANT AND CONCRETE PLANT LOCATIONS REQUIRE CITY OF CHICAGO APPROVAL.
- TEMPORARY CONCRETE BARRIER - THE BARRIER UNIT AT EACH END OF THE INSTALLATIONS MUST BE SECURED TO THE PAVEMENT OR SHOULDER USING THREE ANCHORING PINS FOR F SHAPE OR THREE DOWEL BARS FOR NEW JERSEY SHAPE.
- HAMMER DRIVING OF PILES WILL NOT BE ALLOWED. ALL PILES MUST BE VIBRATED INTO PLACE.
- THE CONCRETE MEDIAN SURFACE, 6" (SPECIAL) AT GUARDRAIL LOCATIONS MUST USE THE INTEGRAL RED CONCRETE WITHOUT THE BRICK PATTERN FINISH.
- 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 CTA OPERATING AREA.
- 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.
- 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 TEMPORARY 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 CONNECTIONS UNTIL INSTALLATION IS COMPLETE INCLUDING PAVEMENT. THIS WORK MUST NOT BE PAID FOR SEPARATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THIS CONTRACT.

32. ALL REFERENCES IN THE PLANS TO STABILIZED SUB-BASE 4" OR STABILIZED SUB-BASE 6" SHALL BE INTERPRETED TO MEAN STABILIZED SUB-BASE 4-1/2"

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62303 • (2021-922 PT2 ETC 2324.6-1P) R-11

**GENERAL NOTES: CITY OF CHICAGO**

(CITY OF CHICAGO NOTES APPLY ONLY TO WORK ON THE WELLS STREET/WENTWORTH AVENUE FRONTAGE ROAD.)

- ALL CATCH BASINS IN THE CITY OF CHICAGO MUST MEET THE DEPARTMENT OF WATER MANAGEMENT STANDARDS.
- SEWER SIZES 21" DIAMETER OR SMALLER MUST BE EXTRA STRENGTH VITRIFIED CLAY PIPE C-700 OR DUCTILE IRON PIPE WITH PUSH-ON OR MECHANICAL JOINTS. SEWER SIZES 24" DIAMETER OR LARGER MUST BE REINFORCED CONCRETE PIPE TYPE C-76, CLASS III, WALL "B" WITH "O-RING" JOINTS.
- A PERMIT FROM THE DEPARTMENT OF WATER MANAGEMENT IS REQUIRED IN ADVANCE FOR ANY UNDERGROUND SEWER WORK INCLUDING ADJUSTMENT OF STRUCTURES, REMOVAL/REPLACEMENT OF FRAMES AND LIDS, TELEVISION SURVEYS, CLEANING, LINING, AND INSPECTIONS. THE DEPARTMENT OF WATER MANAGEMENT PERMIT MUST BE OBTAINED BY A LICENSED SEWER DRAIN LAYER PRIOR TO START OF CONSTRUCTION. THE LICENSED SEWER CONTRACTOR/SUBCONTRACTOR MUST SUBMIT TWO SETS OF PLANS APPROVED BY THE DEPARTMENT OF WATER MANAGEMENT FOR THE ISSUE OF THE SEWER PERMIT TO 333 SOUTH STATE STREET, SUITE 410, CHICAGO, IL 60604. INSPECTION WILL BE PROVIDED BY THE DEPARTMENT OF WATER MANAGEMENT.
- IF THE SEWER PIPE COVER IS REDUCED TO LESS THAN 3 FEET, CONCRETE ENCASEMENT OF THE SEWER OR REPLACEMENT OF THE SEWER WITH CLASS 52 DUCTILE IRON PIPE WILL BE REQUIRED. THIS WORK WILL BE PAID FOR AS COMBINED SEWERS OR STORM SEWERS (WATER MAIN REQUIREMENTS) FOR THE DIAMETER SPECIFIED.
- 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.
- 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.
- 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.
- 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.
- CLOSED LIDS MUST BE PLACED ON ALL MANHOLES EXCEPT AT INTERSECTIONS. PERFORATED LIDS MUST BE PLACED ON ALL CATCH BASINS.
- ALL BROKEN, CRACKED, WORN OR OTHERWISE DAMAGED OR BICYCLE UNSAFE FRAMES AND GRATES OR LIDS ON SEWER STRUCTURES MUST BE REPLACED WITH NEW DEPARTMENT OF WATER MANAGEMENT STANDARD FRAMES AND GRATES OR LIDS. OLD FRAMES AND GRATES OR LIDS MUST BE DELIVERED TO THE DEPARTMENT OF WATER MANAGEMENT AT 39TH STREET AND ASHLAND AVENUE.
- 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.
- CURB AND GUTTER CONSTRUCTION MUST PROVIDE A MINIMUM CURB HEIGHT OF 3".
- PAVEMENT REPLACEMENT AROUND FRAMES AND GRATES OR LIDS WHERE DRAINAGE, WATER MAIN OR ELECTRICAL STRUCTURES ARE ADJUSTED OR RECONSTRUCTED, MUST BE WITH CLASS SI CONCRETE.
- THE CHICAGO TRANSIT AUTHORITY (CTA) HAS BUS OPERATIONS ALONG WENTWORTH AVENUE/WELLS STREET. THE CONTRACTOR MUST INFORM THE CTA REPRESENTATIVE MARVIN A. WATSON (GENERAL MANAGER CONSTRUCTION) OF THE ON-GOING PROJECT SCHEDULE STARTING 28 DAYS BEFORE THE START OF CONSTRUCTION AT (312) 733-7000 EXTENSION 7008.
- ALL SEWER CONNECTIONS WITH PIPES 21" DIAMETER AND SMALLER MUST BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. PRECAST "TEE" AND "WYE" PIPE CONNECTIONS FOR PROPOSED SEWER WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST FOR THE SEWERS. FOR PROPOSED SEWER PIPES LARGER THAN 21" DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER MUST BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. FOR EXISTING SEWERS LARGER THAN 21". CONNECTIONS MUST BE CORE DRILLED.

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REVISIONS	
NAME	DATE
ADDENDUM 1	7/28/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**GENERAL NOTES**

SCALE: NONE  
DATE: 06/09/06

DRAWN BY: JDC  
CHECKED BY: RS

133447 7/28/2006

SUMMARY OF QUANTITIES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

CODE NUMBER	ITEM DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	90% FEDERAL / 10% STATE								
				ROADWAY IDOT J000	ROADWAY CDDT J000	RETAINING WALLS 5ND16-W170 Y007	39TH-47TH Y007	MWRD CULVERT X025-2A	SIGNING Y002-1C	SAFETY SFY-3N	LIGHTING Y030-1E	SURVEILLANCE Y032-1F
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	764	764								
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	774	774								
20101000	TEMPORARY FENCE	FOOT	35	35								
20200100	EARTH EXCAVATION	CU YD	99,934	99,934								
20200410	EARTH EXCAVATION (SPECIAL)	CU YD	546	546								
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10,782	10,782								
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	441			194	247					
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	1,500	1,500								
20800150	TRENCH BACKFILL	CU YD	3234	3234								
20900110	POROUS GRANULAR BACKFILL	CU YD	844	844								
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	123,252	123,252								
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	29,672	29,672								
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	34,170	34,170								
21101825	COMPOST FURNISH AND PLACE, 6"	SQ YD	34,170	34,170								
25000210	SEEDING, CLASS 2A	ACRE	10.0	10.0								
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1,187	1,187								
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1,185	1,185								
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1,185	1,185								
25000750	MOWING	ACRE	13.8	13.8								
25001800	SEEDING, CLASS 4 (MODIFIED)	ACRE	3.2	3.2								
25100630	EROSION CONTROL BLANKET	SQ YD	63,842	63,842								
25200200	SUPPLEMENTAL WATERING	UNIT	1,534	1,534								
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30,484	30,484								
28000510	INLET FILTERS	EACH	408	408								
31101810	SUB-BASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	80,225	80,225								
31101860	SUB-BASE GRANULAR MATERIAL, TYPE B 24"	SQ YD	44,027	44,027								
<del>31200100</del>	<del>STABILIZED SUB-BASE</del>	<del>SQ YD</del>	<del>0,300</del>	<del>0,300</del>								
35300410	PORTLAND CEMENT CONCRETE BASE COURSE 9 1/2"	SQ YD	2,333	2,333								
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	211	211								

NP = NON-PARTICIPATING  
 \* - SPECIALTY ITEM

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SUMMARY OF QUANTITIES

SCALE: 1"=N.T.S.  
 DATE: 06/09/06

DRAWN BY: RGR  
 CHECKED BY: DDM

Rev. 8-21-06 Rev.

500-01

12:46:35 PM  
 6/29/2006

SUMMARY OF QUANTITIES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

CODE NUMBER	ITEM DESCRIPTION	UNIT	URBAN		90% FEDERAL / 10% STATE						
			TOTAL QUANTITY	ROADWAY	ROADWAY	RETAINING WALLS	MWRD	SIGNING	SAFETY	LIGHTING	SURVEILLANCE
			IDOT J000	CDOT J000	SN016-W778 Y007	39TH-47TH Y007	CULVERT X028-2A	Y002-1C	SFTY-3N	Y030-1E	Y032-1F
40600300	AGGREGATE (PRIME COAT)	TON	239	239							
42000521	PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)	SQ YD	6,013	6,013							
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	400				400				
42001300	PROTECTIVE COAT	SQ YD	131,685	131,685							
42100380	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14"	SQ YD	80,229	80,229							
44000008	BITUMINOUS SURFACE REMOVAL 2 1/2"	SQ YD	2,759	2,759							
44000009	BITUMINOUS SURFACE REMOVAL 3"	SQ YD	1,134	1,134							
44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	38				38				
44000100	PAVEMENT REMOVAL	SQ YD	111,028	111,028							
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	32,686	32,686							
44000700	APPROACH SLAB REMOVAL	SQ YD	164				164				
44001980	CONCRETE BARRIER REMOVAL	FOOT	431	431							
44003100	MEDIAN REMOVAL	SQ FT	14,841	14,841							
44004250	PAVED SHOULDER REMOVAL	SQ YD	4581	4581							
48300600	PORTLAND CEMENT CONCRETE SHOULDERS 11"	SQ YD	394	394							
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1					
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1					
50102400	CONCRETE REMOVAL	CU YD	90		44	46					
50200100	STRUCTURE EXCAVATION	CU YD	778		188	309	4			277	
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	157	157							
50300225	CONCRETE STRUCTURES	CU YD	595.5	29.5	335.2	201.6				29.2	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	379.3		133.2	147.6	88.9		9.6		
50300260	BRIDGE DECK GROOVING	SQ YD	142				142				
50300300	PROTECTIVE COAT	SQ YD	2736		1339	793	253		36	315	
50300510	RUSTICATION FINISH	SQ FT	12,911		9125	3278				508	
50500505	STUD SHEAR CONNECTORS	EACH	2802		2,074	728					
50700209	UNTREATED TIMBER LAGGING	SQ FT	9404		6569	2835					
50700215	FURNISHING SOLDIER PILES (W SECTION)	FOOT	5849		3,536	2313					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	143,840	5120	63,020	56,760	15,780		1130	2030	

\* - SPECIALTY ITEM

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
  
SUMMARY OF QUANTITIES  
  
SCALE: 1"=N.T.S  
DATE: 06/09/06  
DRAWN BY: RGR  
CHECKED BY: DDM

Rev. 8-22-06 Rev.

SOQ-02  
15/09/2006

SUMMARY OF QUANTITIES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

CODE NUMBER	ITEM DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	90% FEDERAL / 10% STATE									
				ROADWAY IDOT J000	ROADWAY CDOT J000	RETAINING WALLS 51014-W978 Y007	39TH-47TH Y007	MWRD CULVERT X02B-2A	SIGNING Y002-1C	SAFETY SFTY-3N	LIGHTING Y030-1E	SURVEILLANCE Y032-1F	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	8850	8850									
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	181	181									
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	81	81									
55100300	STORM SEWER REMOVAL 8"	FOOT	46	46									
55100400	STORM SEWER REMOVAL 10"	FOOT	3,286	3,286									
55100500	STORM SEWER REMOVAL 12"	FOOT	2,805	2,805									
55100700	STORM SEWER REMOVAL 15"	FOOT	834	834									
55100900	STORM SEWER REMOVAL 18"	FOOT	443	443									
55101200	STORM SEWER REMOVAL 24"	FOOT	56	56									
58600100	SAND BACKFILL	CU YD	870	870									
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	747			512	235						
60107700	PIPE UNDERDRAINS 6"	FOOT	21,372	21,372									
60108000	PIPE UNDERDRAINS 12"	FOOT	1,361	1,361									
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	920	920									
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	1772			772	1000						
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	14	14									
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	14	14									
60201310	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 20 FRAME AND GRATE	EACH	175	175									
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	11	11									
60208210	CATCH BASINS, TYPE C, TYPE 20 FRAME AND GRATE	EACH	10	10									
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7	7									
60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	4	4									
60251710	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 20 FRAME AND GRATE	EACH	7	7									
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	23	23									
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2									
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	57	57									
60500040	REMOVING MANHOLES	EACH	13	13									
60500050	REMOVING CATCH BASINS	EACH	129	129									
60500060	REMOVING INLETS	EACH	91	91									

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SUMMARY OF QUANTITIES

SCALE: 1"=N.T.S  
DATE: 06/09/06

DRAWN BY: RGR  
CHECKED BY: DOM

Rev. B-22-06

Rev.

S00-03

155504 PW 6/29/2006

SUMMARY OF QUANTITIES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

CODE NUMBER	ITEM DESCRIPTION	UNIT	URBAN		90% FEDERAL / 10% STATE							
			TOTAL QUANTITY	ROADWAY IDOT J000	ROADWAY CDOT J000	RETAINING WALLS 51000-W978 Y007	RETAINING WALLS 39TH-47TH Y007	MWRD CULVERT X020-2A	SIGNING Y002-1C	SAFETY SFTY-3N	LIGHTING Y030-1E	SURVEILLANCE Y032-1F
60500105	FILLING MANHOLES	EACH	2	2								
60500205	FILLING CATCH BASINS	EACH	47	47								
60602800	CONCRETE GUTTER, TYPE B	FOOT	3,445	3,445								
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,801	1,801								
60608521	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24	FOOT	1,186	1,186								
60618324	CONCRETE MEDIAN SURFACE, 6 INCH (SPECIAL)	SQ FT	18,805	18,805								
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	013							013		
<del>63100046</del>	<del>TRAFFIC BARRIER TERMINAL, TYPE 2</del>	<del>EACH</del>	<del>1</del>									
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1								
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4								
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	5	5								
63200310	GUARDRAIL REMOVAL	FOOT	1,749	1,749								
63700805	CONCRETE BARRIER TRANSITION	FOOT	1132	1132								
64200105	SHOULDER RUMBLE STRIP	FOOT	60,655	60,655								
66400550	CHAIN LINK FENCE, 4' (SPECIAL)	FOOT	1334	1334								
67100100	MOBILIZATION	L SUM	1	1								
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	28,250	25,160	3,090							
70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	580	364	216							
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	79,867	68,907	10,960							
70300530	PAVEMENT MARKING TAPE, TYPE III 5"	FOOT	14,613	10,612	4,001							
70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	35,530	31,571	3,959							
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	4,303	4,126	177							
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	63,998	46,249	17,749							
70400100	TEMPORARY CONCRETE BARRIER	FOOT	8,420	8,420								
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	31,830	27,330	4,500							
72000100	SIGN PANEL-TYPE 1	SQ FT	179	0					179			
72000200	SIGN PANEL-TYPE 2	SQ FT	280	0					280			
72000300	SIGN PANEL - TYPE 3	SQ FT	7,098						7,098			
72400200	REMOVE SIGN PANEL ASSEMBLY-TYPE B	EACH	12						12			

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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SUMMARY OF QUANTITIES

SCALE: 1"=N.T.S  
DATE: 06/09/06

DRAWN BY: RGR  
CHECKED BY: DDM

S00-04

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SUMMARY OF QUANTITIES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	90% FEDERAL / 10% STATE							
				ROADWAY IDOT J000	ROADWAY CDOT J000	RETAINING WALLS 39TH-47TH Y007	MWRD CULVERT X020-24	SIGNING Y002-1C	SAFETY SFTY-3N	LIGHTING Y030-1E	SURVEILLANCE Y032-1F
72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	2033					2033			
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	652					652			
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	96					96			
72900200	METAL POST - TYPE B	FOOT	160					160			
73000100	WOOD SIGN SUPPORT	FOOT	874					874			
73000105	WOOD SIGN SUPPORT, SPECIAL	FOOT	17								17
73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	10					10			
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	282					282			
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	339					339			
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	133					133			
73302190	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (24" X 7'-0")	FOOT	26					26			
73304000	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	104					104			
73305000	OVERHEAD SIGN STRUCTURE WALKWAY	FOOT	553					553			
73400100	CONCRETE FOUNDATIONS	CU YD	1					1			
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	143					143			
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1					1			
73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	1					1			
73700100	REMOVE GROUND-MOUNTED SIGN SUPPORT	EACH	18					18			
73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	18					18			
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	5					5			
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS & SYMBOLS	SQ FT	182	182							
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	56,684	56,684							
78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	22,034	22,034							
78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	26,869	26,869							
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	5,739	5,739							
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	59	59							
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2,193	2,193							
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4	4							
78200100	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	1,775	1,593	182						

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SUMMARY OF QUANTITIES

SCALE: 1"=N.T.S.  
DATE: 06/09/06

DRAWN BY: RGR  
CHECKED BY: DDM

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6/9/2006

SUMMARY OF QUANTITIES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

CODE NUMBER	ITEM DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	90% FEDERAL / 10% STATE							
				ROADWAY IDOT J000	ROADWAY CDOT J000	RETAINING WALLS 39TH-47TH Y007	MWRD CULVERT X020-2A	SIGNING Y002-1C	SAFETY SFTY-3N	LIGHTING Y030-1E	SURVEILLANCE Y032-1F
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	21							21	
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	261	261							
* 78201000	TERMINAL MARKER, DIRECT APPLIED	EACH	8							8	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	32,609	17,947	14,662						
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	2,652								2,652
* 81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	389							99	290
* 81016600	CONDUIT IN TRENCH, 2" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	168								168
* 81016700	CONDUIT IN TRENCH, 2 1/2" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	6								6
* 81017000	CONDUIT IN TRENCH, 4" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	374								374
* 81023750	CONDUIT ENCASED, CONCRETE, 3" DIA., PVC	FOOT	449								449
* 81200120	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	65								65
* 81400200	HEAVY-DUTY HANDHOLE	EACH	11								11
* 81400205	HEAVY-DUTY HANDHOLE (SPECIAL)	EACH	6								6
<del>81400205</del>	<del>HEAVY-DUTY HANDHOLE (SPECIAL)</del>	<del>EACH</del>	<del>1</del>								<del>1</del>
* 81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3,979							297	3,682
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	9								9
* 87900200	DRILL EXISTING HANDHOLE	EACH	1								1
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5								5
* C2000124	SHRUB, AESCULUS PARVIFLORA (BOTTLEBRUSH BUCKEYE), 2' HEIGHT, BALLED AND BURLAPPED	EACH	176	176							
* C2C05818	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 18" WIDTH, CONTAINER	EACH	63	63							
* E20200G1	VINE-PARTHENOCISSUS QUINQUEFOLIA (VIRGINIA CREEPER), 1-GALLON POT	EACH	743	743							
* E20220G1	VINE-PARTHENOCISSUS TRICUSPIDATA (BOSTON IVY), 1-GALLON POT	EACH	891	891							
* K0030400	PERENNIAL PLANTS, DAYLILIES	UNIT	18	18							
X0320333	ROADWAY CLEANING (SPECIAL)	EACH	19	19							
X0321720	WATER MAIN REMOVAL	FOOT	143	143							
* X0321905	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	395	395							
X0322400	PILE EXTRACTION	EACH	2								2
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	2,794	2,490	304						
* X0322859	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	29	29							

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SUMMARY OF QUANTITIES

SCALE: 1"=N.T.S.  
DATE: 06/09/06

DRAWN BY: RGR  
CHECKED BY: DDM

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SOQ-06

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SUMMARY OF QUANTITIES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84/90		CODK	588	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

CODE NUMBER	ITEM DESCRIPTION	UNIT	90% FEDERAL / 10% STATE											
			URBAN TOTAL QUANTITY	ROADWAY IDOT J000	ROADWAY CDDT J000	BETAINING WALLS 39TH-47TH Y007	MWRD CULVERT X028-2A	SIGNING Y002-1C	SAFETY SFTY-3N	LIGHTING Y030-1E	SURVEILLANCE Y032-1F			
X6065740	CONCRETE MEDIAN SURFACE, 5" (MODIFIED)	SQ FT	8561	8561										
X6370910	CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT	FOOT	6,048	6,048										
X6370930	CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT	FOOT	11,015	11,015										
X6370935	CONCRETE BARRIER, SINGLE FACE, 32" (MODIFIED)	FOOT	360	360										
X6640050	CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)	FOOT	1,645			1,000	645							
X6640500	CHAIN LINK GATE ASSEMBLY (SPECIAL)	EACH	1			1								
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	13	13										
X6700600	ENGINEER'S FIELD LABORATORY (SPECIAL)	CAL MO	13	13										
X7011008	TRAFFIC CONTROL AND PROTECTION FOR ALTERNATE ROUTE SIGNING	CAL MO	13	13										
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1										
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	390	390										
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	204	204										
X8100045	CONDUIT ENCASED, REINFORCED CONCRETE, 1-3" DIA., CNC	FOOT	325								145	180		
<del>XX001857</del>	<del>STABILIZED SUB-BASE 6"</del>	<del>SQ YD</del>	<del>119,400</del>	<del>119,400</del>										
XX002957	REMOVE AND RE-ERECT EXISTING SIGN	EACH	14						14					
XX003988	TEMPORARY CONCRETE BARRIER REMOVAL	FOOT	13,613	13,613										
XX004201	PAVEMENT REINFORCEMENT 14"	SQ YD	80,229	80,229										
Z0002600	BAR SPLICERS	EACH	102				102							
* Z0008244	DRILLED SHAFT IN SOIL 44"	FOOT	56			26	30							
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1										
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	15	15										
* Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	3							3				
* Z0030070	IMPACT ATTENUATOR (SEVERE USE, NARROW), TEST LEVEL 3	EACH	5							5				
* Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	14							14				
* Z0030275	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW), TEST LEVEL 2	EACH	1							1				
* Z0030280	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW), TEST LEVEL 3	EACH	2							2				
* Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	7							7				
* Z0030360	IMPACT ATTENUATORS, RELOCATE (SEVERE USE), TEST LEVEL 3	EACH	1							1				
Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	7,672	7,672										

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
  
SUMMARY OF QUANTITIES  
  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: RGR  
CHECKED BY: DDM

SOQ-08

6/29/2006

SUMMARY OF QUANTITIES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

CODE NUMBER	ITEM DESCRIPTION	UNIT	90% FEDERAL / 10% STATE											
			URBAN TOTAL QUANTITY	ROADWAY IDOT J000	ROADWAY CDOT J000	RETAINING WALLS 39TH-47TH Y007	MWRD CULVERT X028-2A	SIGNING Y002-1C	SAFETY SFTY-3N	LIGHTING Y030-1E	SURVEILLANCE Y032-1F			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1										
Z0076600	TRAINEES	HOUR	2000	2000										
X0325502	MEDIAN BARRIER GATE SYSTEM	EACH	2	2										
X0325515	LUG SYSTEM COMPLETE 41'	EACH	1	1										
X0325514	LUG SYSTEM COMPLETE 49'	EACH	1	1										
<del>X0325517</del>	<del>CONDUIT ENCASED IN STRUCTURE, 1-1/4" DIA., GALVANIZED STEEL</del>	<del>FOOT</del>	<del>46</del>	<del>46</del>										
X0325085	TEMPORARY PAVEMENT (INTERSTATE)	SQ YD	2,863	2,341						522				
X0325505	CONDUIT ENCASED, REINFORCED CONCRETE, 1-2" DIA., CNC	FOOT	397										397	
X0325506	CONDUIT ENCASED, REINFORCED CONCRETE, 2-2" DIA., CNC	FOOT	115										115	
X0325510	VIDEO TAPING OF PIPE UNDERDRAINS	FOOT	9,387	9,387										
X0325509	TEMPORARY PAVEMENT (VARIABLE DEPTH)	SQ YD	481	481										
X0325516	CLEANING PIPE UNDERDRAINS	FOOT	4,694	4,694										
X6013700	PIPE UNDERDRAIN REMOVAL, SPECIAL	FOOT	3,602	3,602										
X0325498	DUCTILE IRON PIPE	FOOT	423	423										
Z0018100	DRAINAGE STRUCTURES TO BE ADJUSTED, SPECIAL	EACH	21	21										
X0325567	STABILIZED SUB-BASE 4 1/2"	SQ YD	123,252	123,252										
60404910	FRAMES AND GRATES, TYPE 20	EACH	10	10										
XX004210	DUCTILE IRON PIPE STORM SEWERS, 12"	FOOT	50	50										
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6"	SQ FT	91		91									
XX005742	DETECTABLE WARNING TILES	SQ FT	26		26									
X8100042	CONDUIT ENCASED, CONCRETE, 3" DIA., PVC	FOOT	354										354	
X0325500	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, TYPE J	EACH	1										1	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20,000	20,000										
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1										
66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2										

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	F.A.I. 94/90 (DAN RYAN EXPRESSWAY)	
		GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)	
		SUMMARY OF QUANTITIES	
		SCALE: 1"=N.T.S.	DRAWN BY: RGR
		DATE: 06/09/06	CHECKED BY: DDM

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 6/9/2006

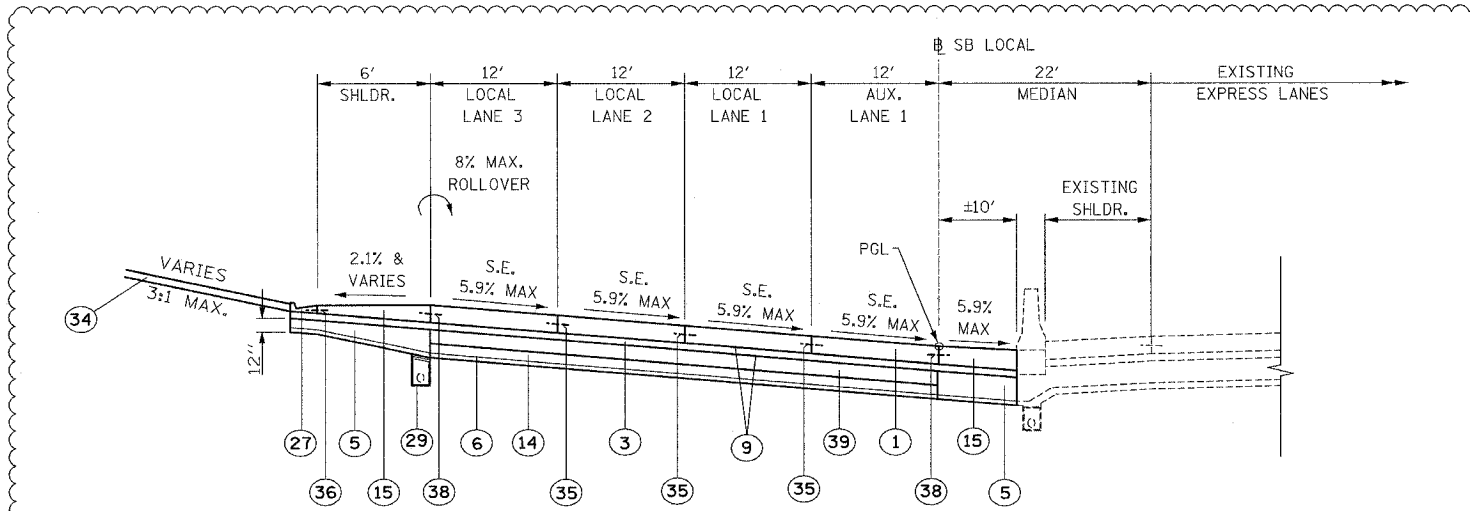




F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	22
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

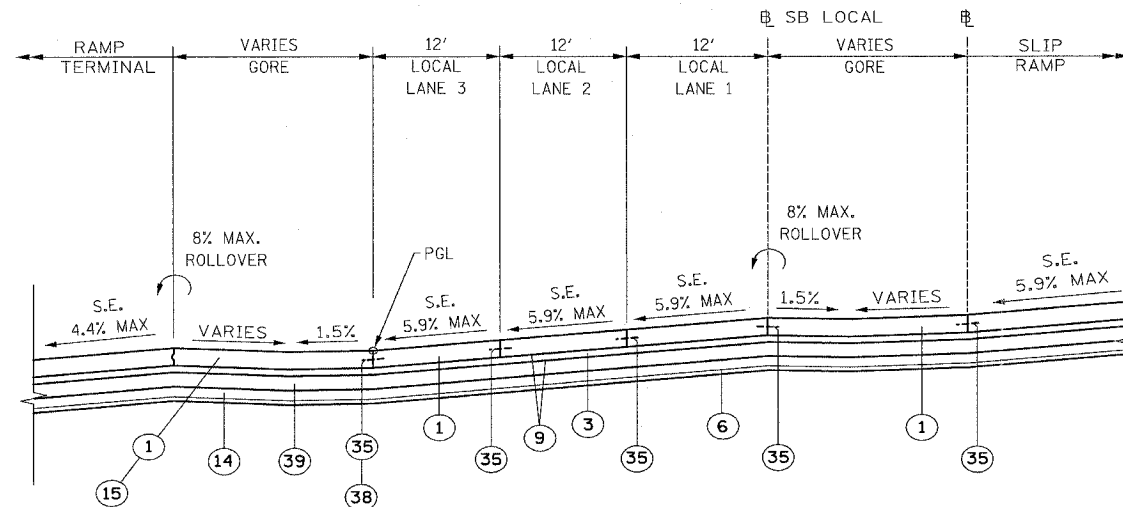
**PROPOSED LEGEND**

- ① CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14" AND PAVEMENT REINFORCEMENT 14"
- ② NOT USED
- ③ STABILIZED SUB-BASE 4 1/2"
- ④ SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- ⑤ SUB-BASE GRANULAR MATERIAL, TYPE B 24"
- ⑥ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑦ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D" N70, 1 1/2"
- ⑧ POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 1"
- ⑨ BITUMINOUS MATERIALS (PRIME COAT)
- ⑩ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑪ PORTLAND CEMENT CONCRETE BASE COURSE 9 1/2"
- ⑫ PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- ⑬ PORTLAND CEMENT CONCRETE SHOULDERS 11"
- ⑭ EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL
- ⑮ PORTLAND CEMENT CONCRETE SHOULDERS 14" & VAR.
- ⑯ CONCRETE GUTTER, TYPE B
- ⑰ CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
- ⑱ CONCRETE MEDIAN SURFACE, 6" (SPECIAL)
- ⑲ CONCRETE MEDIAN SURFACE, 6"
- ⑳ CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT
- ㉑ CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT
- ㉒ CHAIN LINK FENCE, 4' (SPECIAL)
- ㉓ BARRIER BASE
- ㉔ BARRIER WALL MARKERS, TYPE C (80' C-C)
- ㉕ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ㉖ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24
- ㉗ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- ㉘ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.48 (MODIFIED)
- ㉙ PIPE UNDERDRAINS 6"
- ㉚ RETAINING WALL
- ㉛ MODIFIED EXISTING RETAINING WALL
- ㉜ SAND BACKFILL
- ㉝ GUARDRAIL
- ㉞ TOPSOIL FURNISH AND PLACE SEEDING (SEE LANDSCAPING PLANS FOR DETAILS)
- ㉟ LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF C.R.P.C.C. PAVEMENT 14")
- ㊱ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB AND GUTTER TYPE)
- ㊲ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF P.C.C. BASE COURSE 9')
- ㊳ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE P.C.C. SHOULDER TYPE)
- ㊴ SUB-BASE GRANULAR MATERIAL, TYPE B 12"



**PROPOSED LOCAL LANES**

STA. 3529+00 TO 3530+92.51 - SUPERELEVATION = 5.7%  
(SUPERELEVATION TRANSITION SECTION FROM STA. 3530+92.51 TO 3537+00.25 IS SIMILAR)



**PROPOSED LOCAL LANES**

STA. 3537+00.25 TO STA. 3541+43.17 - SUPERELEVATION = 5.7%  
(SUPERELEVATION TRANSITION SECTION FROM STA. 3541+43.17 TO STA. 3545+91.96 IS SIMILAR)

- NOTES:
- SEE ROADWAY DETAILS FOR VARIABLE HEIGHT OF THE DOUBLE FACE BARRIER WALL AND FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER AND FOR THE LIMITS OF CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE DOUBLE FACE BARRIER WALL.
  - SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED IN THE PROPOSED AND EXISTING SHOULDERS OF THE LOCAL AND EXPRESS LANES ACCORDING TO IDOT STANDARD 642001.
  - TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE ROADWAY PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.

4. THE SLOPE OF THE STABILIZED SUB-BASE 4 1/2" UNDER THE SHOULDERS AND CURB AND GUTTER SHALL MATCH THE SLOPE OF THE ADJACENT PAVEMENT IN THE NORMAL CROWNED AREAS.

\*\* SEE PLAN SHEETS FOR DETAILS

**MAINLINE:**

STRUCTURAL DESIGN TRAFFIC:	YEAR 2020	
PV= 125,272	SU= 10,930	MU= 31,949
ROAD/STREET CLASSIFICATION:	CLASS 1	
P= 8%	S= 37%	M= 37%
TRAFFIC FACTOR:	ACTUAL TF= 264.46	AC TYPE= N/A
	MINIMUM TF= 12.39	
AC GRADE:	BINDER:= -	SURFACE:= -
SUBGRADE SUPPORT RATING:		
SSR= 2.00		

REVISIONS	
NAME	DATE
ADDENDUM 1	7/28/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**PROPOSED TYPICAL SECTIONS**

SCALE: NTS  
DATE: 06/09/06  
DRAWN BY: JDC  
CHECKED BY: RS

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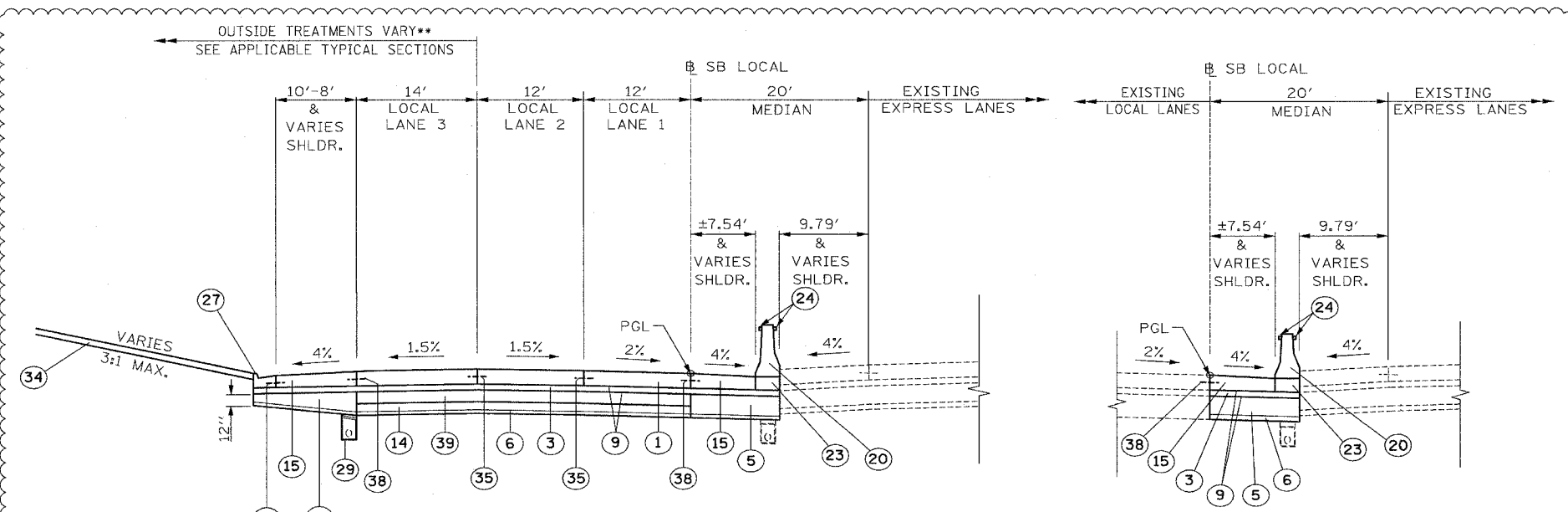
PRTYP-3

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			

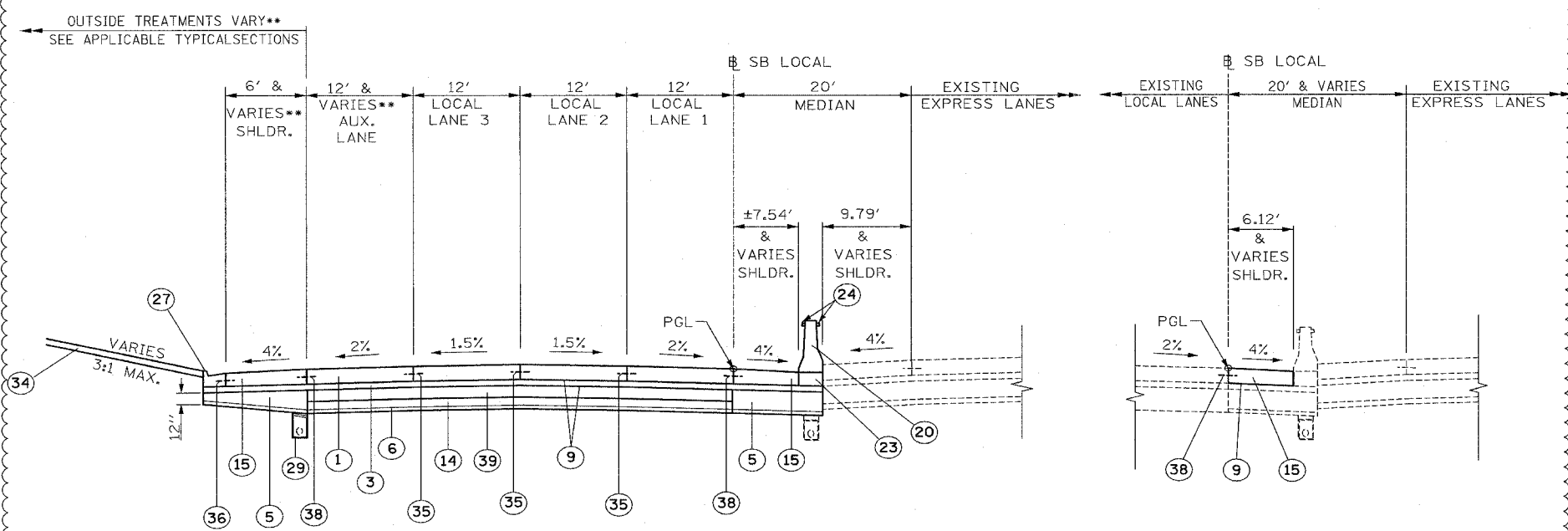
**PROPOSED LEGEND**

- 1 CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14" AND PAVEMENT REINFORCEMENT 14"
- 2 NOT USED
- 3 STABILIZED SUB-BASE 4 1/2"
- 4 SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- 5 SUB-BASE GRANULAR MATERIAL, TYPE B 24"
- 6 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 7 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D" N70, 1 1/2"
- 8 POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 1"
- 9 BITUMINOUS MATERIALS (PRIME COAT)
- 10 STRIP REFLECTIVE CRACK CONTROL TREATMENT
- 11 PORTLAND CEMENT CONCRETE BASE COURSE 9 1/2"
- 12 PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- 13 PORTLAND CEMENT CONCRETE SHOULDERS 11"
- 14 EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL
- 15 PORTLAND CEMENT CONCRETE SHOULDERS 14" & VAR.
- 16 CONCRETE GUTTER, TYPE B
- 17 CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
- 18 CONCRETE MEDIAN SURFACE, 6" (SPECIAL)
- 19 CONCRETE MEDIAN SURFACE, 6"
- 20 CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT
- 21 CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT
- 22 CHAIN LINK FENCE, 4' (SPECIAL)
- 23 BARRIER BASE
- 24 BARRIER WALL MARKERS, TYPE C (80' C-C)
- 25 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 26 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24
- 27 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- 28 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.48 (MODIFIED)
- 29 PIPE UNDERDRAINS 6"
- 30 RETAINING WALL
- 31 MODIFIED EXISTING RETAINING WALL
- 32 SAND BACKFILL
- 33 GUARDRAIL
- 34 TOPSOIL FURNISH AND PLACE SEEDING (SEE LANDSCAPING PLANS FOR DETAILS)
- 35 LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF C.R.P.C.C. PAVEMENT 14")
- 36 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB AND GUTTER TYPE)
- 37 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF P.C.C. BASE COURSE 9")
- 38 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE P.C.C. SHOULDER TYPE)
- 39 SUB-BASE GRANULAR MATERIAL, TYPE B 12"



**PROPOSED LOCAL LANES**  
STA. 3545+91.96 TO 3629+96

**PROPOSED SHOULDER**  
STA. 3629+96 TO 3635+14



**PROPOSED LOCAL LANES WITH AUXILIARY LANE**  
STA. 3530+93 TO 3543+83  
STA. 3556+15 TO 3569+40  
STA. 3597+50 TO 3622+50  
(SUPER ELEVATED SECTIONS ARE SIMILAR)

**PROPOSED SHOULDER**  
STA. 3635+88 TO 3643+65

**NOTES:**

1. SEE ROADWAY DETAILS FOR VARIABLE HEIGHT OF THE DOUBLE FACE BARRIER WALL AND FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER AND FOR THE LIMITS OF CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE DOUBLE FACE BARRIER WALL.
2. SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED IN THE PROPOSED AND EXISTING SHOULDERS OF THE LOCAL AND EXPRESS LANES ACCORDING TO IDOT STANDARD 642001.
3. TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE ROADWAY PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.
4. THE SLOPE OF THE STABILIZED SUB-BASE 4 1/2" UNDER THE SHOULDERS AND CURB AND GUTTER SHALL MATCH THE SLOPE OF THE ADJACENT PAVEMENT IN THE NORMAL CROWNED AREAS.

•• SEE PLAN SHEETS FOR DETAILS

**MAINLINE:**

STRUCTURAL DESIGN TRAFFIC:	YEAR 2020
PV= 125,272	SU= 10,930
MU= 31,949	
ROAD/STREET CLASSIFICATION:	CLASS 1
P= 8%	S= 37%
M= 37%	
TRAFFIC FACTOR:	ACTUAL TF= 264.46
	AC TYPE= N/A
	MINIMUM TF= 12.39
AC GRADE:	BINDER:= -
SUBGRADE SUPPORT RATING:	SURFACE:= -
SSR= 2.00	

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REVISIONS	
NAME	DATE
ADDENDUM 1	7/28/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**PROPOSED TYPICAL SECTIONS**

SCALE: NTS  
DATE: 06/09/06

DRAWN BY: JDC  
CHECKED BY: RS

PRTYP-4

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

**PROPOSED LEGEND**

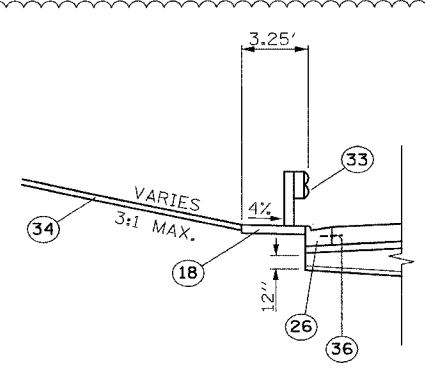
- 1 CONTINUOUSLY REINFORCED PORTLAND CEMENT PAVEMENT 14" AND PAVEMENT REINFORCEMENT 14"
- 2 NOT USED
- 3 STABILIZED SUB-BASE 4 1/2"
- 4 SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- 5 SUB-BASE GRANULAR MATERIAL, TYPE B 24"
- 6 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 7 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D" N70, 1 1/2"
- 8 POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 1"
- 9 BITUMINOUS MATERIALS (PRIME COAT)
- 10 STRIP REFLECTIVE CRACK CONTROL TREATMENT
- 11 PORTLAND CEMENT CONCRETE BASE COURSE 9 1/2"
- 12 PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- 13 PORTLAND CEMENT CONCRETE SHOULDERS 11"
- 14 EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL
- 15 PORTLAND CEMENT CONCRETE SHOULDERS 14" (& VAR)
- 16 CONCRETE GUTTER, TYPE B
- 17 CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
- 18 CONCRETE MEDIAN SURFACE, 6" (SPECIAL)
- 19 CONCRETE MEDIAN SURFACE, 6"
- 20 CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT
- 21 CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT
- 22 CHAIN LINK FENCE, 4' (SPECIAL)
- 23 BARRIER BASE
- 24 BARRIER WALL MARKERS, TYPE C (80' C-C)
- 25 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 26 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24
- 27 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- 28 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.48 (MODIFIED)
- 29 PIPE UNDERDRAINS 6"
- 30 RETAINING WALL
- 31 MODIFIED EXISTING RETAINING WALL
- 32 SAND BACKFILL
- 33 GUARDRAIL
- 34 TOPSOIL FURNISH AND PLACE SEEDING (SEE LANDSCAPING PLANS FOR DETAILS)
- 35 LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF C.R.P.C.C. PAVEMENT 14")
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- 38 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE P.C.C. SHOULDER TYPE)
- 39 SUB-BASE GRANULAR MATERIAL, TYPE B 12"

PRTYP-5

REVISIONS		DATE
NAME		
ADDENDUM 1		7/28/06

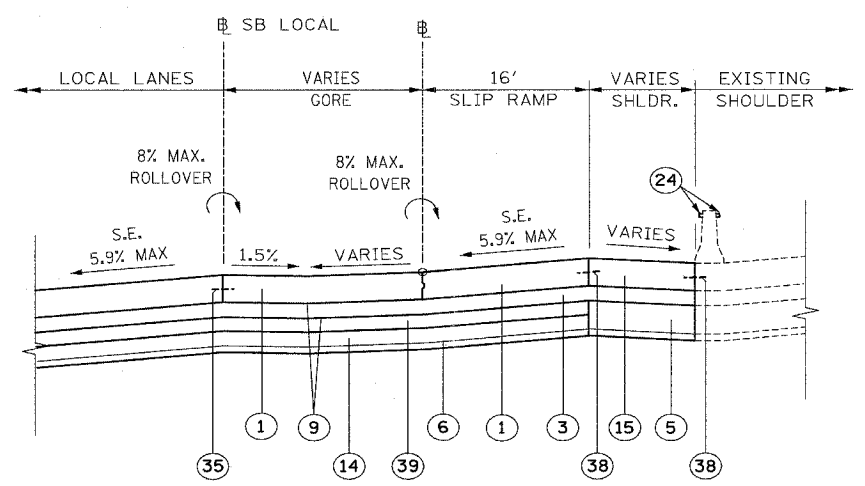
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**F.A.I. 94/90 (DAN RYAN EXPRESSWAY)**  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**PROPOSED TYPICAL SECTIONS**  
 SCALE: NTS  
 DATE: 06/09/06  
 DRAWN BY: JDC  
 CHECKED BY: RS



**PROPOSED GUARDRAIL**

- STA. 3529+14.17 TO 3531+47.10
- STA. 3556+35.88 TO 3559+23.74
- STA. 3566+23.18 TO 3568+62.98
- STA. 3576+22.01 TO 3578+36.60
- STA. 3583+69.87 TO 3585+72.20

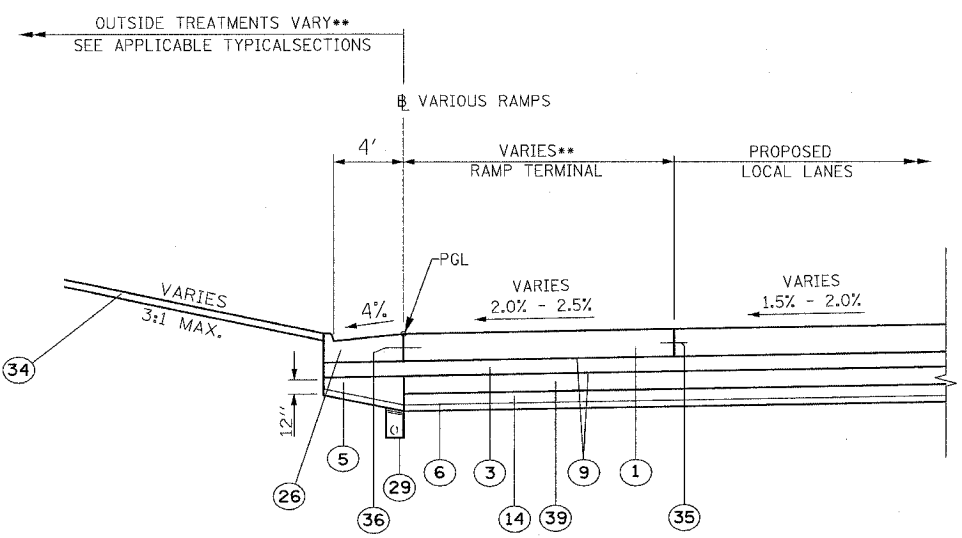


**PROPOSED SLIP RAMP**

STA. 721+23 TO 725+72.77 - SUPERELEVATION = 5.9%  
 (SUPERELEVATION TRANSITION SECTION FROM STA. 725+72.77 TO 727+63.41 IS SIMILAR)

MAINLINE:

STRUCTURAL DESIGN TRAFFIC:	YEAR 2020
PV= 125,272	SU= 10,930 MU= 31,949
ROAD/STREET CLASSIFICATION:	CLASS 1
P= 8%	S= 37% M= 37%
TRAFFIC FACTOR:	ACTUAL TF= 264.46 AC TYPE= N/A
	MINIMUM TF= 12.39
AC GRADE:	BINDER:= - SURFACE:= -
SUBGRADE SUPPORT RATING:	SSR= 2.00



**CRC LOCAL LANE RAMP TERMINAL**

RAMP	STATION
47A	5060+00 TO 5062+66.19
43C	7057+45.05 TO 7059+84.92
43A	5040+09.48 TO 5041+61.85
39D	7048+50.27 TO 7050+90.17
T35D	7046+58.03 TO 7053+38.03
T39A	5020+23.52 TO 5022+06.41
35A	5000+11.36 TO 5001+93.91
31D	7007+33.48 TO 7009+73.36

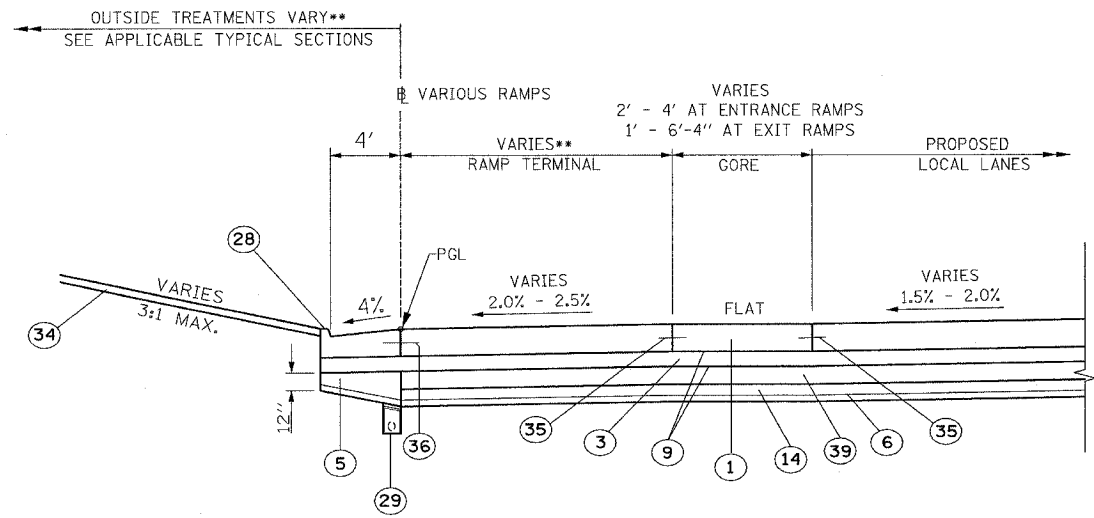
- NOTES:
- SEE ROADWAY DETAILS FOR VARIABLE HEIGHT OF THE DOUBLE FACE BARRIER WALL AND FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER AND FOR THE LIMITS OF CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE DOUBLE FACE BARRIER WALL.
  - SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED IN THE PROPOSED AND EXISTING SHOULDERS OF THE LOCAL AND EXPRESS LANES ACCORDING TO IDOT STANDARD 642001.
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  - THE SLOPE OF THE STABILIZED SUB-BASE 4 1/2" UNDER THE SHOULDERS AND CURB AND GUTTER SHALL MATCH THE SLOPE OF THE ADJACENT PAVEMENT IN THE NORMAL CROWNED AREAS.
- \*\* SEE PLAN SHEETS FOR DETAILS

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			

**PROPOSED LEGEND**

- 1 CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14" AND PAVEMENT REINFORCEMENT 14"
- 2 NOT USED
- 3 STABILIZED SUB-BASE 4 1/2"
- 4 SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- 5 SUB-BASE GRANULAR MATERIAL, TYPE B 24"
- 6 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 7 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D" N70, 1 1/2"
- 8 POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 1"
- 9 BITUMINOUS MATERIALS (PRIME COAT)
- 10 STRIP REFLECTIVE CRACK CONTROL TREATMENT
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- 26 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24
- 27 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
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- 36 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB AND GUTTER TYPE)
- 37 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF P.C.C. BASE COURSE 9")
- 38 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE P.C.C. SHOULDER TYPE)
- 39 SUB-BASE GRANULAR MATERIAL, TYPE B 12"

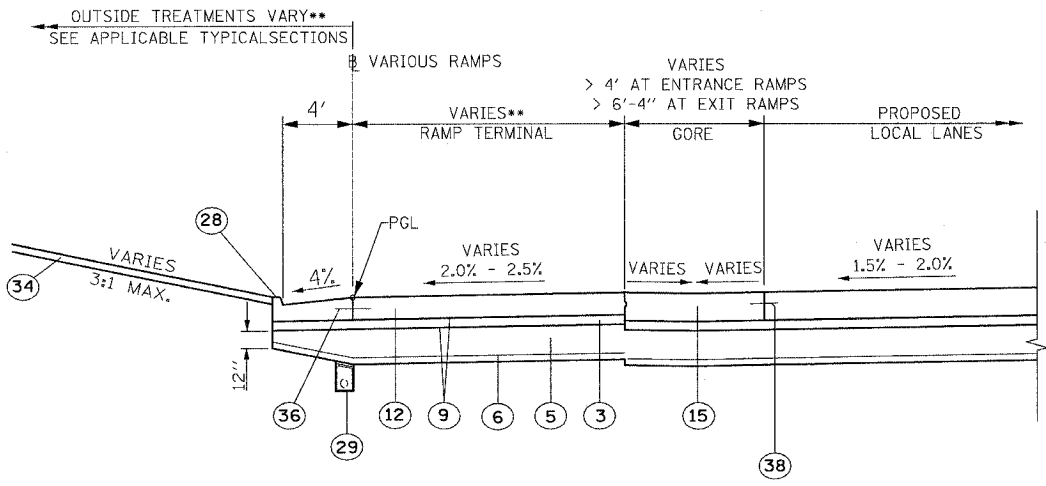


**CRC PORTION OF LOCAL LANE RAMP GORE**

RAMP	STATION
47A	5062+66.19 TO 5063+71.65
43C	7056+85.05 TO 7057+45.05
43A	5041+61.85 TO 5042+12.85
39D	7047+90.65 TO 7048+50.27
T35D	7045+78.30 TO 7046+58.03
T39A	5022+06.41 TO 5022+67.53
35A	5001+93.91 TO 5002+54.93
31D	7006+73.62 TO 7007+33.48

**MAINLINE:**

STRUCTURAL DESIGN TRAFFIC:	YEAR 2020
PV= 125,272	SU= 10,930 MU= 31,949
ROAD/STREET CLASSIFICATION:	CLASS 1
P= 8%	S= 37% M= 37%
TRAFFIC FACTOR:	ACTUAL TF= 264.46 AC TYPE= N/A
	MINIMUM TF= 12.39
AC GRADE:	BINDER= - SURFACE= -
SUBGRADE SUPPORT RATING:	SSR= 2.00



**JOINTED PORTION OF LOCAL LANE RAMP GORE**

RAMP	STATION
47A	5063+71.65 TO 5065+59.83
43C	7054+55.21 TO 7056+85.05
43A	5042+12.85 TO 5043+00.73
39D	7045+66.83 TO 7047+90.65
T35D	7043+58.07 TO 7045+78.30
T39A	5022+67.53 TO 5023+73.67
35A	5002+54.93 TO 5003+60.75
31D	7004+91.72 TO 7006+73.62

**RAMPS:**

STRUCTURAL DESIGN TRAFFIC:	YEAR 2020
PV= 16,758	SU= 532 MU= 1,710
ROAD/STREET CLASSIFICATION:	CLASS 1
P= 100%	S= 100% M= 100%
TRAFFIC FACTOR:	ACTUAL TF= 38.10 AC TYPE= N/A
	MINIMUM TF= 16.75
AC GRADE:	BINDER= - SURFACE= -
SUBGRADE SUPPORT RATING:	SSR= 2.00

- NOTES:**
- SEE ROADWAY DETAILS FOR VARIABLE HEIGHT OF THE DOUBLE FACE BARRIER WALL AND FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER AND FOR THE LIMITS OF CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE DOUBLE FACE BARRIER WALL.
  - SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED IN THE PROPOSED AND EXISTING SHOULDERS OF THE LOCAL AND EXPRESS LANES ACCORDING TO IDOT STANDARD 642001.
  - TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE ROADWAY PLANS AS THEY ARE A REPRESENTATION OF THE PLANS, THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.
  - THE SLOPE OF THE STABILIZED SUB-BASE 4 1/2" UNDER THE SHOULDERS AND CURB AND GUTTER SHALL MATCH THE SLOPE OF THE ADJACENT PAVEMENT IN THE NORMAL CROWNED AREAS.

•• SEE PLAN SHEETS FOR DETAILS

BOWMAN, BARRETT & ASSOCIATES INC.  
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REVISIONS	
NAME	DATE
ADDENDUM 1	7/28/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**PROPOSED TYPICAL SECTIONS**

SCALE: NTS  
DATE: 06/09/06

DRAWN BY: JDC  
CHECKED BY: RS

PRTYP-6

NO. 960 CADD/CA/IN/NS/SHEET 5/660 190/300.dgn

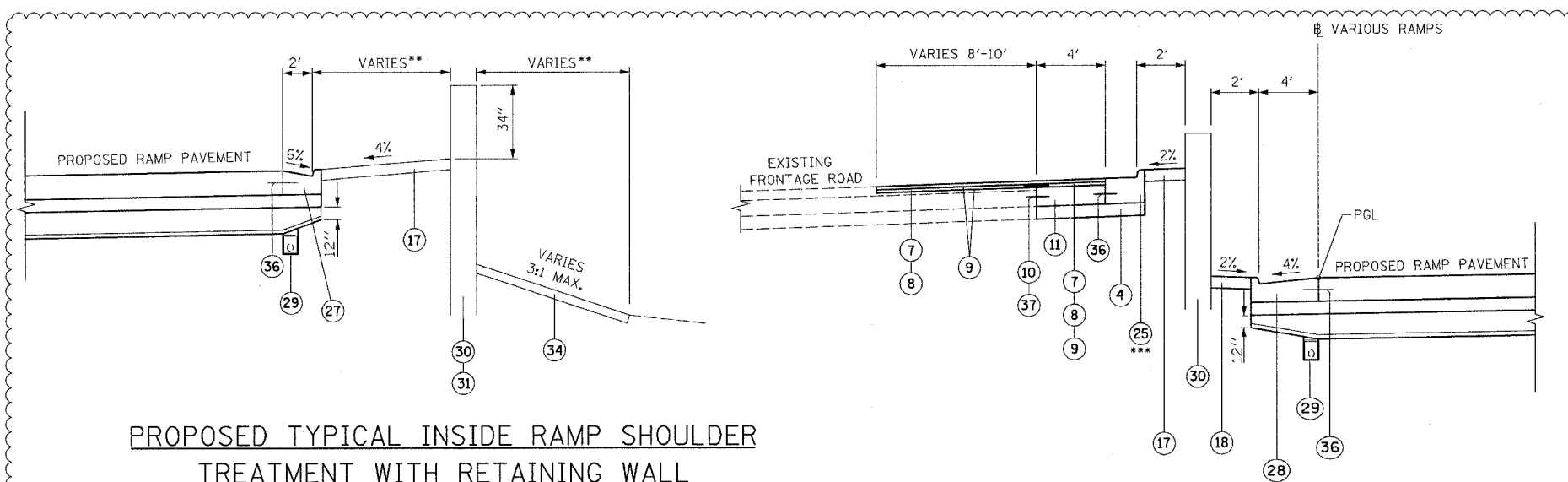
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	26
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	(2021-922 PT2 ETC 2324.6-1P) R-11			

**PROPOSED LEGEND**

- 1 CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14" AND PAVEMENT REINFORCEMENT 14"
- 2 NOT USED
- 3 STABILIZED SUB-BASE 4 1/2"
- 4 SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- 5 SUB-BASE GRANULAR MATERIAL, TYPE B 24"
- 6 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 7 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D" N70, 1 1/2"
- 8 POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 1"
- 9 BITUMINOUS MATERIALS (PRIME COAT)
- 10 STRIP REFLECTIVE CRACK CONTROL TREATMENT
- 11 PORTLAND CEMENT CONCRETE BASE COURSE 9 1/2"
- 12 PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- 13 PORTLAND CEMENT CONCRETE SHOULDERS 11"
- 14 EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL
- 15 PORTLAND CEMENT CONCRETE SHOULDERS 14" & VAR.
- 16 CONCRETE GUTTER, TYPE B
- 17 CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
- 18 CONCRETE MEDIAN SURFACE, 6" (SPECIAL)
- 19 CONCRETE MEDIAN SURFACE, 6"
- 20 CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT
- 21 CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT
- 22 CHAIN LINK FENCE, 4' (SPECIAL)
- 23 BARRIER BASE
- 24 BARRIER WALL MARKERS, TYPE C (80' C-C)
- 25 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 26 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24
- 27 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- 28 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.48 (MODIFIED)
- 29 PIPE UNDERDRAINS 6"
- 30 RETAINING WALL
- 31 MODIFIED EXISTING RETAINING WALL
- 32 SAND BACKFILL
- 33 GUARDRAIL
- 34 TOPSOIL FURNISH AND PLACE SEEDING (SEE LANDSCAPING PLANS FOR DETAILS)
- 35 LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF C.R.P.C.C. PAVEMENT 14")
- 36 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB AND GUTTER TYPE)
- 37 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF P.C.C. BASE COURSE 9")
- 38 LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE P.C.C. SHOULDER TYPE)
- 39 SUB-BASE GRANULAR MATERIAL, TYPE B 12"

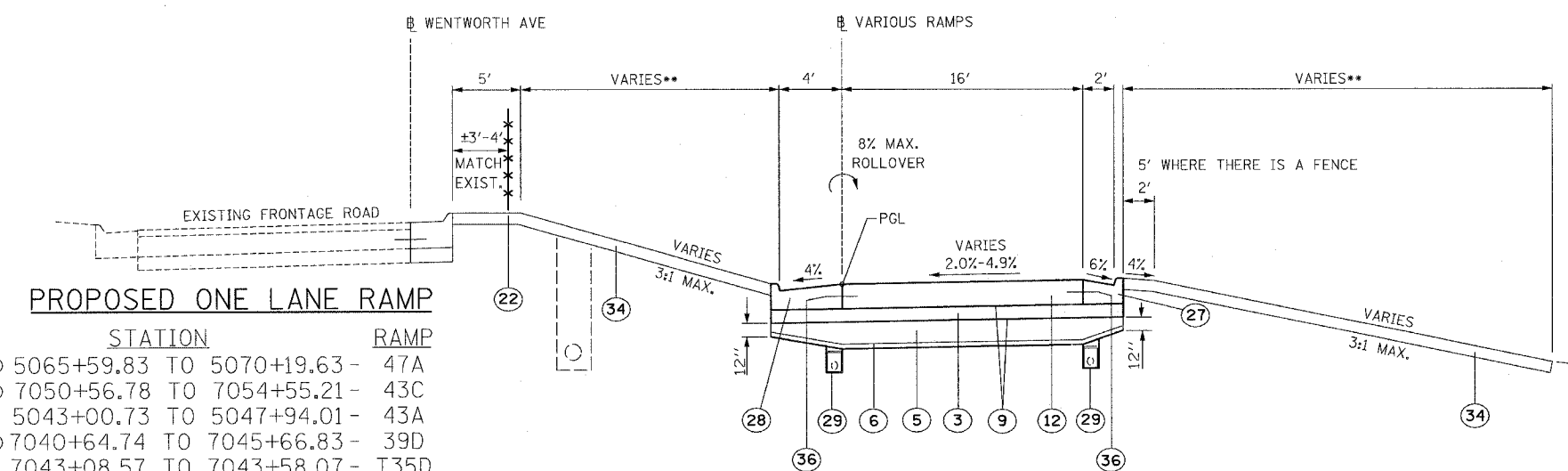


**PROPOSED TYPICAL INSIDE RAMP SHOULDER TREATMENT WITH RETAINING WALL**

STATION	RAMP
5066+13.30 TO 5070+72.56	47A
54+79.84 TO 7044+17	39D

**PROPOSED TYPICAL OUTSIDE RAMP SHOULDER TREATMENT WITH RETAINING WALL**

STATION	RAMP
5065+29.90 TO 5069+92	47A



**PROPOSED ONE LANE RAMP**

STATION	RAMP
⊗ 5065+59.83 TO 5070+19.63	47A
⊙ 7050+56.78 TO 7054+55.21	43C
5043+00.73 TO 5047+94.01	43A
⊙ 7040+64.74 TO 7045+66.83	39D
7043+08.57 TO 7043+58.07	T35D
⊙ 5023+73.67 TO 5024+32.53	T39A
⊙ 5003+60.75 TO 5004+04.93	35A
⊙ 7004+63.75 TO 7004+91.72	31D

(INVERT RAMP 47A 24" GUTTER FLAG 2% ONTO RAMP PAVEMENT FROM STA 5070+30 TO THE FRONTAGE ROAD CURB AND GUTTER)  
 (INVERT RAMP 39D 24" GUTTER FLAG 2% ONTO RAMP PAVEMENT FROM STA 5054+49 TO THE FRONTAGE ROAD CURB AND GUTTER)

⊗ SEE "PROPOSED TYPICAL INSIDE RAMP SHOULDER TREATMENT WITH RETAINING WALL" FOR LEFT SIDE TREATMENT.  
 ⊙ SEE "EARTH RETAINING RAMP BARRIER WALL" FOR RIGHT SIDE TREATMENT.  
 ⊚ SEE "PROPOSED TYPICAL OUTSIDE RAMP SHOULDER TREATMENT WITH RETAINING WALL" FOR RIGHT SIDE TREATMENT

**RAMPS:**

STRUCTURAL DESIGN TRAFFIC:	YEAR 2020
PV= 16,758	SU= 532
ROAD/STREET CLASSIFICATION:	CLASS 1
P= 100%	S= 100%
TRAFFIC FACTOR:	ACTUAL TF= 38.10
	MINIMUM TF= 16.75
AC GRADE:	BINDER:= -
SUBGRADE SUPPORT RATING:	SSR= 2.00

- NOTES:  
SEE ROADWAY DETAILS FOR VARIABLE HEIGHT OF THE DOUBLE FACE BARRIER WALL AND FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER AND FOR THE LIMITS OF CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE DOUBLE FACE BARRIER WALL.
- SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED IN THE PROPOSED AND EXISTING SHOULDERS OF THE LOCAL AND EXPRESS LANES ACCORDING TO IDOT STANDARD 642001.
- TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE ROADWAY PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.
- THE SLOPE OF THE STABILIZED SUB-BASE 4 1/2" UNDER THE SHOULDERS AND CURB AND GUTTER SHALL MATCH THE SLOPE OF THE ADJACENT PAVEMENT IN THE NORMAL CROWNED AREAS.  
 \*\* SEE PLAN SHEETS FOR DETAILS  
 \*\*\* SLOPE PROPOSED FRONTAGE ROAD GUTTER TO MATCH EXISTING SLOPES OF GUTTERS THAT ARE BEING REPLACED (INCLUDED IN THE COST OF CURB AND GUTTER)

REVISIONS	
NAME	DATE
ADDENDUM 1	7/28/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**PROPOSED TYPICAL SECTIONS**

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PRTYP-7

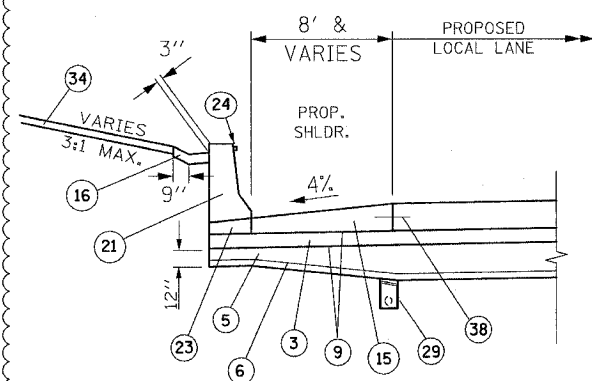
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		

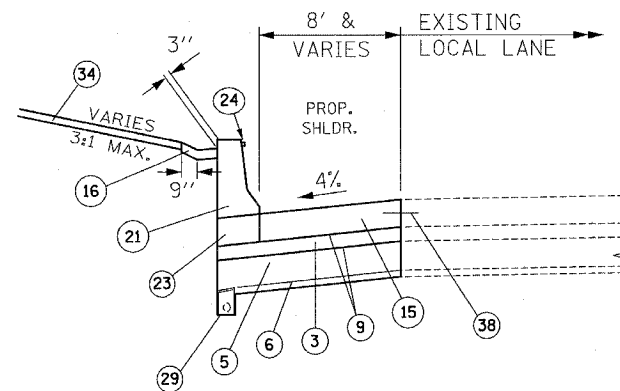
**PROPOSED LEGEND**

- ① CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14" AND PAVEMENT REINFORCEMENT 14"
- ② NOT USED
- ③ STABILIZED SUB-BASE 4 1/2"
- ④ SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- ⑤ SUB-BASE GRANULAR MATERIAL, TYPE B 24"
- ⑥ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑦ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D" N70, 1 1/2"
- ⑧ POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 1"
- ⑨ BITUMINOUS MATERIALS (PRIME COAT)
- ⑩ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑪ PORTLAND CEMENT CONCRETE BASE COURSE 9 1/2"
- ⑫ PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- ⑬ PORTLAND CEMENT CONCRETE SHOULDERS 11"
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- ⑮ PORTLAND CEMENT CONCRETE SHOULDERS 14" & VAR.
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- ⑰ CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
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- ⑳ CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT
- ㉑ CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT
- ㉒ CHAIN LINK FENCE, 4' (SPECIAL)
- ㉓ BARRIER BASE
- ㉔ BARRIER WALL MARKERS, TYPE C (80' C-C)
- ㉕ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
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- ㉙ PIPE UNDERDRAINS 6"
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- ㊴ SUB-BASE GRANULAR MATERIAL, TYPE B 12"



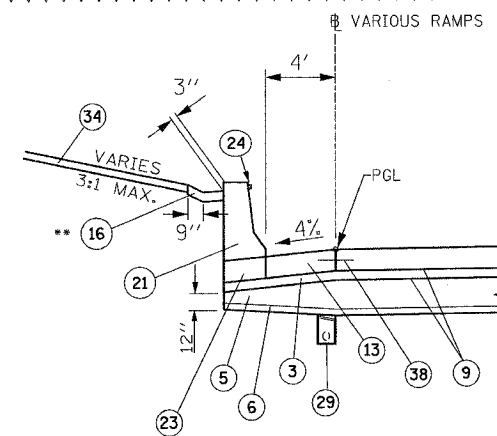
**EARTH RETAINING LOCAL LANE BARRIER WALL**

STA. 3551+50 TO 3555+50  
 STA. 3605+57 TO 3608+44  
 STA. 3609+47 TO 3616+89  
 STA. 3618+95 TO 3621+84  
 STA. 3622+70 TO 3625+49  
 STA. 3628+02 TO 3629+96



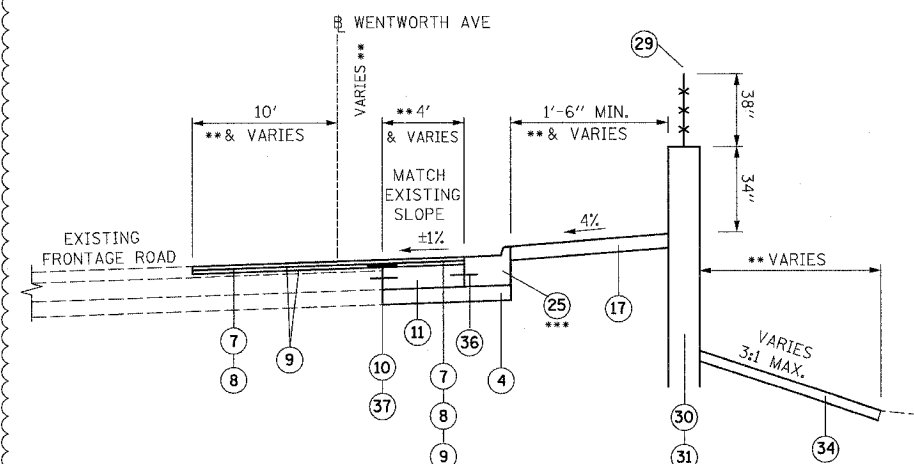
**EARTH RETAINING LOCAL LANE BARRIER WALL ADJACENT TO EXISTING PAVEMENT**

STA. 3629+96 TO 3635+14



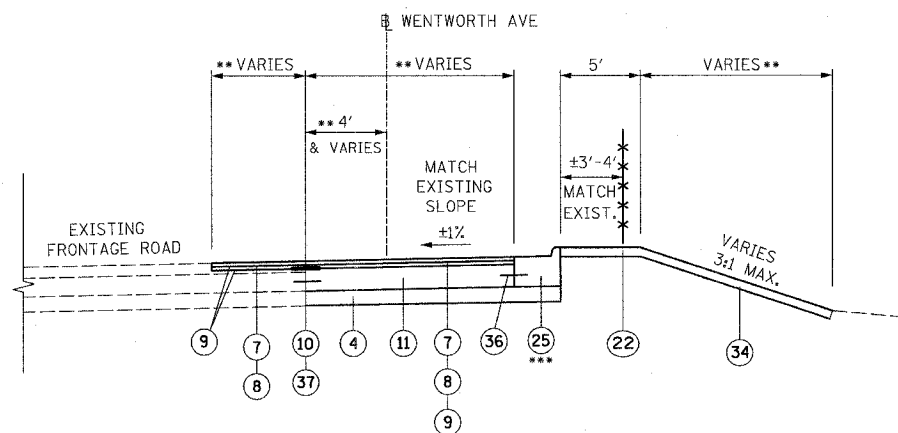
**EARTH RETAINING RAMP BARRIER WALL**

RAMP STATION  
 43C - 7050+84.05 TO 7053+65.86  
 T39A - 5022+67.53 TO 5024+32.53  
 35A - 5002+54.93 TO 5004+04.93  
 31D - 7004+63.75 TO 7006+73.62



**RECONSTRUCTION WITH RETAINING WALL**

STA. 5065+29.90 TO 17+95.20  
 STA. 33+18.14 TO 37+68.14



**PROPOSED FRONTAGE ROAD PARTIAL RECONSTRUCTION**

STA. 5070+19.63 TO 5071+93  
 STA. 26+99.07 TO 27+44.09  
 STA. 32+55.42 TO 33+18.14  
 STA. 53+66.73 TO 53+97.30

**NOTES:**

- 1. SEE ROADWAY DETAILS FOR VARIABLE HEIGHT OF THE DOUBLE FACE BARRIER WALL AND FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER AND FOR THE LIMITS OF CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE DOUBLE FACE BARRIER WALL.
  - 2. SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED IN THE PROPOSED AND EXISTING SHOULDERS OF THE LOCAL AND EXPRESS LANES ACCORDING TO IDOT STANDARD 642001.
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BOWMAN, BARRETT & ASSOCIATES INC.  
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REVISIONS	
NAME	DATE
ADDENDUM 1	7/28/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
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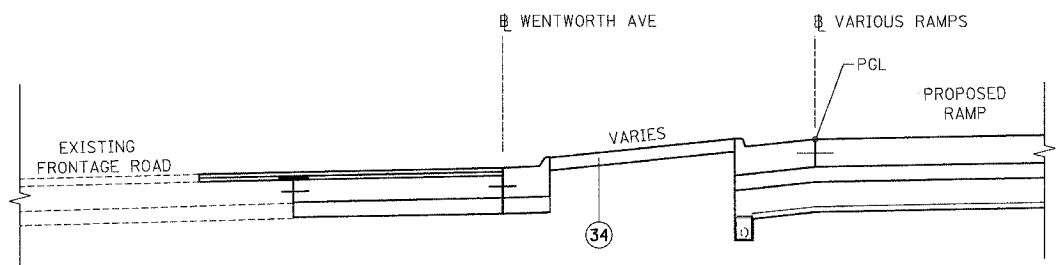
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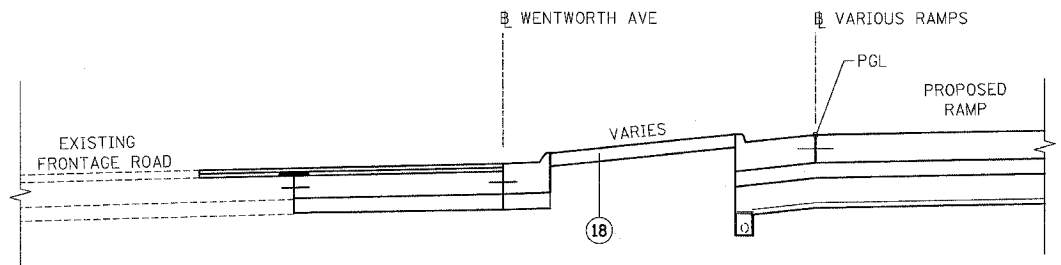
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62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

**PROPOSED LEGEND**

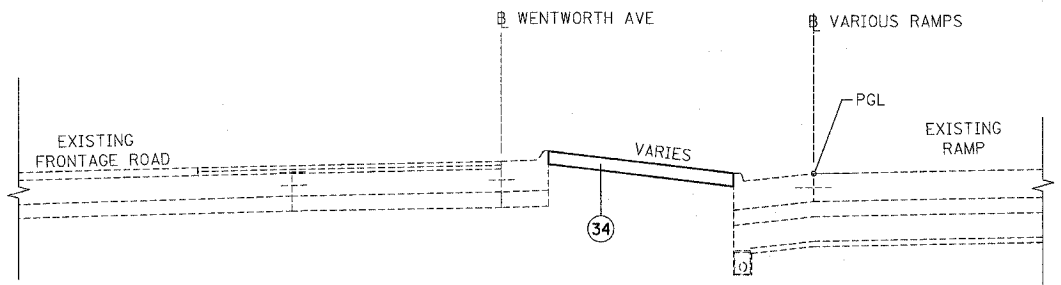
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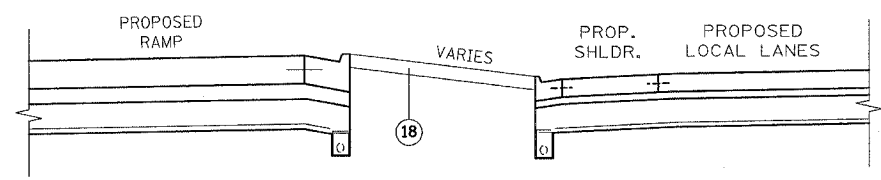
**PROPOSED UPPER RAMP GROUND TREATMENT**  
RAMPS: 43C, 39D



**PROPOSED UPPER RAMP GROUND TREATMENT**  
RAMPS: 43A



**PROPOSED UPPER RAMP GROUND TREATMENT**  
RAMPS: T35D, T39A, 35A, 31D



**PROPOSED LOWER RAMP GROUND TREATMENT**

STATION	RAMP
(PAVED ATTENUATOR PAD)	- 47A
7053+75.16 TO 7054+50.54	- 43C
5043+15.19 TO 5043+02.73	- 43A
7044+85.05 TO 7045+64.71	- 39D
7043+29.85 TO 7043+55.03	- T35D
5023+75.91 TO 5023+90.86	- T39A
(PAVED ATTENUATOR PAD)	- 35A
7004+64.38 TO 7004+89.50	- 31D

**NOTES:**

1. SEE ROADWAY DETAILS FOR VARIABLE HEIGHT OF THE DOUBLE FACE BARRIER WALL AND FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER AND FOR THE LIMITS OF CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE DOUBLE FACE BARRIER WALL.
2. SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED IN THE PROPOSED AND EXISTING SHOULDERS OF THE LOCAL AND EXPRESS LANES ACCORDING TO IDOT STANDARD 642001.
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\*\* SEE PLAN SHEETS FOR DETAILS

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SCALE: NTS  
DATE: 06/09/06

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PRTYP-10

13650 FM 7/28/2006

### ROADWAY REMOVAL SCHEDULE

STATION	TO	STATION	BITUMINOUS SURFACE REMOVAL 2-1/2"	PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	CONCRETE BARRIER REMOVAL	MEDIAN REMOVAL	PAVED SHOULDER REMOVAL	GUARDRAIL REMOVAL	TEMPORARY CONCRETE BARRIER REMOVAL	LUG SYSTEM REMOVAL	IMPACT ATTENUATOR REMOVAL
			SQ YD	SQ YD	FOOT	FOOT	SQ FT	SQ YD	FOOT	FOOT	EACH	EACH
3475+50.00	TO	3479+00.00	0	1,665	350	64	0	100	156	242	0	0
3479+00.00	TO	3491+00.00	0	6,952	1,200	71	0	0	0	1,122	0	1
3491+00.00	TO	3503+00.00	0	6,243	1,198	27	0	5	0	1,077	0	0
3503+00.00	TO	3515+00.00	0	7,904	1,203	0	0	0	0	1,199	0	0
3515+00.00	TO	3526+00.00	0	8,048	1,119	0	0	212	0	562	0	2
3526+00.00	TO	3529+00.00	0	1,925	615	0	0	296	0	230	0	0
3529+00.00	TO	3541+00.00	1036	10847	4426	0	5277.6	587	132	89	0	0
3541+00.00	TO	3533+00.00	325	9344	2618	49	1734.5	732	201	945	0	0
3533+00.00	TO	3565+00.00	1109	10246	2693	31	3815.3	175	157	1285	0	0
3565+00.00	TO	3577+00.00	0	8906	3694	23	1969.8	689	235	1370	0	0
3577+00.00	TO	3589+00.00	289	8411	3213	69	2043.9	109	307	1193	2	0
3589+00.00	TO	3601+00.00	0	8309	3025	27	0	699	107	1163	0	0
3601+00.00	TO	3613+00.00	0	8428	2629	41	0	539	229	1018	0	0
3613+00.00	TO	3625+00.00	0	8538	3099	29	0	365	225	1105	0	0
3625+00.00	TO	3637+00.00	0	4793	1604	0	0	73	0	1013	0	0
3637+00.00	TO	3638+05.00	0	469	0	0	0	0	0	0	0	0
TOTALS			2,759	111,028	32,686	431	14,841	4,581	1,749	13,613	2	3

### CURB AND GUTTER SCHEDULE

STATION	TO	STATION	CONCRETE GUTTER, TYPE B	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12	COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.24	COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.48 (MODIFIED)	COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.12	COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.24
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
3475+50.00	TO	3479+00.00	0	0	0	0	0	0
3479+00.00	TO	3491+00.00	0	0	0	285	0	0
3491+00.00	TO	3503+00.00	0	0	0	127	0	928
3503+00.00	TO	3515+00.00	0	0	0	995	0	24
3515+00.00	TO	3526+00.00	0	0	0	113	0	629
3526+00.00	TO	3529+00.00	0	0	0	0	0	225
3529+00.00	TO	3541+00.00	0	887	239	533	283	1365
3541+00.00	TO	3533+00.00	372	300	0	894	0	627
3533+00.00	TO	3565+00.00	266	583	288	684	0	1192
3565+00.00	TO	3577+00.00	0	0	320	524	0	843
3577+00.00	TO	3589+00.00	0	31	339	592	0	843
3589+00.00	TO	3601+00.00	0	0	0	278	0	1016
3601+00.00	TO	3613+00.00	828	0	0	0	0	410
3613+00.00	TO	3625+00.00	1038	0	0	0	0	139
3625+00.00	TO	3637+00.00	943	0	0	0	0	75
3637+00.00	TO	3638+05.00	0	0	0	0	0	0
TOTALS			3,445	1,801	1,186	5,025	283	8,317

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REVISIONS	
NAME	DATE
REVISED SHEET	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

### ROADWAY SCHEDULES

SCALE: NTS  
DATE: 06/09/06

DRAWN BY: RA  
CHECKED BY: RS

SCH-01

6/5/06 4 PM





**SAFETY SCHEDULE**

STATION	TO	STATION	SAFETY SCHEDULE												
			STEEL PLATE BEAM GUARDRAIL, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	CONCRETE BARRIER TRANSITION	GUARD RAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKER, DIRECT APPLIED	BARRIER BASE	CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT	CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT	CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT (MODIFIED)	IMPACT ATTENUATOR (SEVERE USE, NARROW), TEST LEVEL 3
3475+50.00	TO	3479+00.00	0	0	0	0	60	0	10	0	482	168	254	0	0
3479+00.00	TO	3491+00.00	0	0	0	0	54	0	29	0	1,138	0	1,084	0	1
3491+00.00	TO	3503+00.00	0	0	0	0	94	0	28	0	1,096	0	1,002	0	0
3503+00.00	TO	3515+00.00	0	0	0	0	71	0	30	0	2,175	1,950	154	0	0
3515+00.00	TO	3526+00.00	0	0	0	0	82	0	11	0	625	399	144	0	1
3526+00.00	TO	3529+00.00	0	0	0	0	15	0	6	0	230	0	215	0	0
3529+00.00	TO	3541+00.00	125	0	1	1	0	4	2	1	85	0	85	0	1
3541+00.00	TO	3533+00.00	0	0	0	0	65	5	8	1	1,610	432	1,114	0	1
3533+00.00	TO	3565+00.00	175	0	1	1	77	3	18	1	1,467	250	1,065	74	0
3565+00.00	TO	3577+00.00	125	1	1	1	173	5	12	1	1,095	0	849	74	0
3577+00.00	TO	3589+00.00	188	0	1	2	137	2	14	2	1,067	15	828	87	0
3589+00.00	TO	3601+00.00	0	0	0	0	32	0	15	0	1,190	0	1,158	0	0
3601+00.00	TO	3613+00.00	0	0	0	0	122	0	25	0	2,020	803	1,022	74	0
3613+00.00	TO	3625+00.00	0	0	0	0	120	0	28	1	2,293	1,074	1,043	57	1
3625+00.00	TO	3637+00.00	0	0	0	0	30	2	25	1	1,985	957	998	0	0
3637+00.00	TO	3638+05.00	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS			612.5	1	4	5	1,132	21	261	8	18,558	6,048	11,015	366	5

**EARTHWORK SCHEDULE**

STATION TO STATION	EARTHWORK SCHEDULE												
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EARTH EXCAVATION (SPECIAL)	TOTAL EARTH EXCAVATION ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE(+) OR SHORTAGE(-)	EXCAVATE EXISTING GRANULAR MATERIAL	PLACE EXISTING GRANULAR MATERIAL	EXISTING GRANULAR MATERIAL BALANCE WASTE (+) OR SHORTAGE(-)	CU	YD	CU	YD
3475+50.00	3476+00.00	1	250	0	213	6	-207	12	71	-59			
3476+00.00	3477+00.00	4	518	0	441	17	-424	23	141	-118			
3477+00.00	3478+00.00	6	513	0	437	6	-431	23	141	-118			
3478+00.00	3479+00.00	12	516	0	439	0	-439	23	141	-118			
3479+00.00	3480+00.00	15	524	0	446	0	-446	23	141	-118			
3480+00.00	3481+00.00	15	507	0	431	0	-431	23	141	-118			
3481+00.00	3482+00.00	13	472	0	402	0	-402	23	141	-118			
3482+00.00	3483+00.00	15	461	0	392	0	-392	23	141	-118			
3483+00.00	3484+00.00	19	481	0	409	0	-409	23	141	-118			
3484+00.00	3485+00.00	19	476	0	405	0	-405	23	141	-118			
3485+00.00	3486+00.00	17	444	0	378	0	-378	23	141	-118			
3486+00.00	3487+00.00	8	548	0	466	0	-466	27	195	-168			
3487+00.00	3488+00.00	2	676	0	575	0	-575	32	245	-213			
3488+00.00	3489+00.00	8	672	0	572	0	-572	32	234	-202			
3489+00.00	3490+00.00	13	628	0	534	0	-534	32	217	-185			
3490+00.00	3491+00.00	19	543	0	462	8	-454	32	197	-165			
3491+00.00	3492+00.00	28	467	2	399	28	-371	32	176	-144			
3492+00.00	3493+00.00	38	474	2	405	21	-384	32	158	-126			
3493+00.00	3494+00.00	45	535	0	455	0	-455	32	145	-113			
3494+00.00	3495+00.00	52	601	0	511	0	-511	27	141	-114			
3495+00.00	3496+00.00	58	677	0	576	0	-576	23	141	-118			
3496+00.00	3497+00.00	60	724	0	616	0	-616	23	141	-118			
3497+00.00	3498+00.00	60	779	0	663	0	-663	23	141	-118			
3498+00.00	3499+00.00	56	844	0	718	0	-718	23	141	-118			
3499+00.00	3500+00.00	52	844	0	718	0	-718	23	141	-118			
3500+00.00	3501+00.00	49	818	0	696	0	-696	23	141	-118			
3501+00.00	3502+00.00	23	690	0	587	0	-587	23	141	-118			
3502+00.00	3503+00.00	6	557	0	474	0	-474	23	141	-118			
3503+00.00	3504+00.00	13	535	0	455	0	-455	23	141	-118			
3504+00.00	3505+00.00	21	542	0	461	0	-461	23	141	-118			
3505+00.00	3506+00.00	39	579	0	493	10	-483	23	145	-122			
3506+00.00	3507+00.00	58	633	0	539	26	-513	23	152	-129			
3507+00.00	3508+00.00	71	739	0	629	41	-588	23	160	-137			
3508+00.00	3509+00.00	82	846	0	720	49	-671	23	167	-144			
3509+00.00	3510+00.00	91	890	0	757	49	-708	23	175	-152			
3510+00.00	3511+00.00	100	942	0	801	49	-752	23	182	-159			
3511+00.00	3512+00.00	108	939	0	799	47	-752	23	189	-166			
3512+00.00	3513+00.00	108	831	0	707	45	-662	23	197	-174			
3513+00.00	3514+00.00	99	666	0	567	38	-529	23	204	-181			
3514+00.00	3515+00.00	86	594	0	505	21	-484	23	212	-189			
3515+00.00	3516+00.00	73	721	0	613	10	-603	28	254	-226			
3516+00.00	3517+00.00	34	632	0	538	4	-534	35	241	-206			
3517+00.00	3518+00.00	0	445	0	379	0	-379	35	182	-147			
3518+00.00	3519+00.00	0	422	0	359	0	-359	34	167	-133			
3519+00.00	3520+00.00	0	396	0	337	2	-335	34	154	-120			
3520+00.00	3521+00.00	6	524	0	446	23	-423	34	173	-139			
3521+00.00	3522+00.00	19	666	0	567	32	-535	34	191	-157			
3522+00.00	3523+00.00	36	631	0	537	28	-509	40	186	-146			
3523+00.00	3524+00.00	52	684	0	582	17	-565	48	186	-138			
3524+00.00	3525+00.00	69	851	0	724	0	-724	49	186	-137			
3525+00.00	3526+00.00	89	990	0	842	17	-825	49	186	-137			
3526+00.00	3527+00.00	113	1,046	8	896	91	-805	49	186	-137			
3527+00.00	3528+00.00	128	1,168	8	1,000	75	-925	49	186	-137			
3528+00.00	3529+00.00	65	1,040	0	884	0	-884	48	186	-138			

STATION	TO	STATION	PROTECTIVE COAT SQ YD
3475+50.00	TO	3479+00.00	2,228
3479+00.00	TO	3491+00.00	8,605
3491+00.00	TO	3503+00.00	7,888
3503+00.00	TO	3515+00.00	10,859
3515+00.00	TO	3526+00.00	8,870
3526+00.00	TO	3529+00.00	2,537
3529+00.00	TO	3541+00.00	13,619
3541+00.00	TO	3533+00.00	9,879
3533+00.00	TO	3565+00.00	10,833
3565+00.00	TO	3577+00.00	11,017
3577+00.00	TO	3589+00.00	10,304
3589+00.00	TO	3601+00.00	9,081
3601+00.00	TO	3613+00.00	9,639
3613+00.00	TO	3625+00.00	10,295
3625+00.00	TO	3637+00.00	5,605
3637+00.00	TO	3638+05.00	427
TOTALS			131,885

CONTINUED NEXT SHEET

SCH-05

REVISIONS	
NAME	DATE
REVISED SHEET	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**F.A.I. 94/90 (DAN RYAN EXPRESSWAY)**  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
**ROADWAY SCHEDULES**  
 SCALE: NTS  
 DATE: 06/09/06  
 DRAWN BY: RA  
 CHECKED BY: RS

BOWMAN, BARRETT & ASSOCIATES INC.  
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\* THE SHRINKAGE FACTOR USED TO CALCULATE EARTHWORK QUANTITIES IS 15%.  
 FACTOR IS FOR BOTH 'EARTH EXCAVATION' AND 'EARTH EXCAVATION (SPECIAL)' QUANTITIES.

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EARTHWORK SCHEDULE

STATION TO STATION		REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EARTH EXCAVATION (SPECIAL)	TOTAL EARTH EXCAVATION ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE(+) OR SHORTAGE(-)	EXCAVATE EXISTING GRANULAR MATERIAL	PLACE EXISTING GRANULAR MATERIAL	EXISTING GRANULAR MATERIAL BALANCE WASTE (+) OR SHORTAGE(-)	
CU	YD	CU	YD	CU	YD	CU	YD	CU	YD	CU	YD
3529+00.00	3530+00.00	71	909	0	773	15	+758	67	186	-119	
3530+00.00	3531+00.00	121	1,030	0	876	4	+872	65	186	-121	
3531+00.00	3532+00.00	112	873	0	743	2	+741	65	186	-121	
3532+00.00	3533+00.00	102	1,041	0	885	8	+877	69	199	-130	
3533+00.00	3534+00.00	99	1,537	0	1,307	8	+1,299	73	219	-146	
3534+00.00	3535+00.00	97	2,065	0	1,756	4	+1,752	76	234	-158	
3535+00.00	3536+00.00	95	2,532	0	2,153	4	+2,149	80	239	-159	
3536+00.00	3537+00.00	86	2,743	0	2,332	4	+2,328	82	238	-156	
3537+00.00	3538+00.00	78	2,172	0	2,157	4	+2,153	99	238	-139	
3538+00.00	3539+00.00	75	2,547	0	2,165	2	+2,163	113	238	-125	
3539+00.00	3540+00.00	69	1,948	0	1,656	0	+1,656	110	238	-128	
3540+00.00	3541+00.00	65	1,299	0	1,105	12	+1,093	89	234	-145	
3541+00.00	3542+00.00	60	922	13	795	100	+695	69	219	-150	
3542+00.00	3543+00.00	54	767	28	676	302	+374	63	199	-136	
3543+00.00	3544+00.00	62	679	38	610	421	+189	60	184	-124	
3544+00.00	3545+00.00	82	672	39	605	291	+314	62	184	-122	
3545+00.00	3546+00.00	100	687	17	599	95	+504	63	200	-137	
3546+00.00	3547+00.00	112	719	0	612	12	+600	65	176	-111	
3547+00.00	3548+00.00	115	880	0	748	0	+748	69	141	-72	
3548+00.00	3549+00.00	115	1,237	0	1,052	0	+1,052	73	141	-68	
3549+00.00	3550+00.00	115	1,533	0	1,304	0	+1,304	62	141	-79	
3550+00.00	3551+00.00	117	1,748	0	1,486	0	+1,486	49	141	-92	
3551+00.00	3552+00.00	119	1,664	0	1,415	13	+1,402	49	141	-92	
3552+00.00	3553+00.00	119	1,336	0	1,136	17	+1,119	50	141	-91	
3553+00.00	3554+00.00	126	1,063	0	904	36	+868	52	141	-89	
3554+00.00	3555+00.00	141	908	0	772	71	+701	52	141	-89	
3555+00.00	3556+00.00	75	766	0	652	39	+613	49	141	-92	
3556+00.00	3557+00.00	73	771	0	656	2	+654	50	145	-95	
3557+00.00	3558+00.00	134	957	0	814	4	+810	56	152	-96	
3558+00.00	3559+00.00	121	1,191	0	1,013	4	+1,009	56	160	-104	
3559+00.00	3560+00.00	119	1,413	0	1,202	2	+1,200	58	167	-109	
3560+00.00	3561+00.00	119	1,526	0	1,298	0	+1,298	60	175	-115	
3561+00.00	3562+00.00	119	1,679	0	1,428	0	+1,428	62	178	-116	
3562+00.00	3563+00.00	121	1,565	0	1,331	0	+1,331	63	178	-115	
3563+00.00	3564+00.00	119	1,124	0	956	26	+930	71	178	-107	
3564+00.00	3565+00.00	125	885	0	753	26	+727	73	178	-105	
3565+00.00	3566+00.00	67	826	0	703	0	+703	65	200	-135	
3566+00.00	3567+00.00	71	873	0	743	2	+741	65	200	-135	
3567+00.00	3568+00.00	141	1,032	0	878	4	+874	67	178	-111	
3568+00.00	3569+00.00	141	1,052	0	895	2	+893	67	178	-111	
3569+00.00	3570+00.00	139	1,021	0	868	0	+868	67	178	-111	
3570+00.00	3571+00.00	136	904	0	769	13	+756	67	188	-121	
3571+00.00	3572+00.00	139	793	0	675	52	+623	67	200	-133	
3572+00.00	3573+00.00	143	769	0	654	84	+570	69	173	-104	
3573+00.00	3574+00.00	141	816	0	694	62	+632	73	141	-68	
3574+00.00	3575+00.00	134	961	0	817	19	+798	65	141	-76	
3575+00.00	3576+00.00	108	1,041	0	885	2	+883	54	141	-87	
3576+00.00	3577+00.00	106	952	0	810	2	+808	54	141	-87	
3577+00.00	3578+00.00	121	759	0	646	49	+597	56	141	-85	
3578+00.00	3579+00.00	121	670	0	570	86	+484	56	141	-85	
3579+00.00	3580+00.00	125	667	0	567	80	+487	56	141	-85	
3580+00.00	3581+00.00	138	680	0	578	58	+520	56	141	-85	
3581+00.00	3582+00.00	75	472	0	402	17	+385	143	145	-82	
3582+00.00	3583+00.00	0	246	0	210	0	+210	234	154	80	

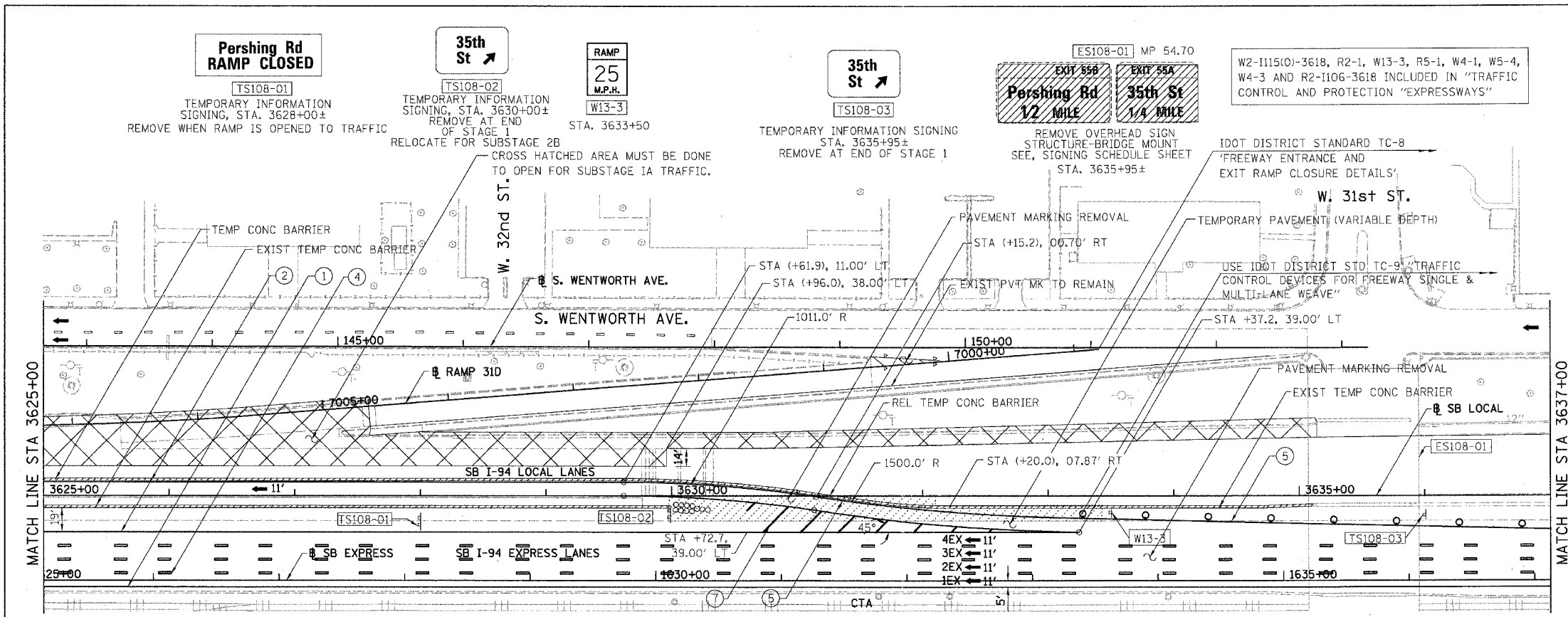
EARTHWORK SCHEDULE

STATION TO STATION		REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EARTH EXCAVATION (SPECIAL)	TOTAL EARTH EXCAVATION ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE(+) OR SHORTAGE(-)	EXCAVATE EXISTING GRANULAR MATERIAL	PLACE EXISTING GRANULAR MATERIAL	EXISTING GRANULAR MATERIAL BALANCE WASTE (+) OR SHORTAGE(-)	
CU	YD	CU	YD	CU	YD	CU	YD	CU	YD	CU	YD
3583+00.00	3584+00.00	50	358	0	305	0	+305	252	163	89	
3584+00.00	3585+00.00	104	453	0	386	0	+386	273	171	102	
3585+00.00	3586+00.00	73	368	0	313	2	+311	284	180	104	
3586+00.00	3587+00.00	43	97	0	83	4	+79	476	191	285	
3587+00.00	3588+00.00	47	0	0	0	10	+10	676	200	476	
3588+00.00	3589+00.00	41	0	0	0	10	+10	702	210	492	
3589+00.00	3590+00.00	36	0	0	0	4	+4	728	219	509	
3590+00.00	3591+00.00	17	0	0	0	2	+2	773	234	539	
3591+00.00	3592+00.00	10	0	0	0	6	+6	689	193	496	
3592+00.00	3593+00.00	21	0	0	0	13	+13	575	141	434	
3593+00.00	3594+00.00	25	0	0	0	19	+19	575	141	434	
3594+00.00	3595+00.00	23	0	0	0	80	+80	550	141	409	
3595+00.00	3596+00.00	17	16	0	14	128	+114	499	141	358	
3596+00.00	3597+00.00	15	65	0	56	117	+61	452	141	311	
3597+00.00	3598+00.00	15	121	0	103	117	+14	402	147	255	
3598+00.00	3599+00.00	17	174	0	148	117	+31	352	156	196	
3599+00.00	3600+00.00	21	217	0	185	113	+72	321	163	158	
3600+00.00	3601+00.00	32	280	0	238	132	+106	289	171	118	
3601+00.00	3602+00.00	41	387	0	329	76	+253	260	176	84	
3602+00.00	3603+00.00	45	465	0	396	0	+396	239	178	61	
3603+00.00	3604+00.00	41	474	0	403	0	+403	223	178	45	
3604+00.00	3605+00.00	49	511	0	435	25	+410	282	178	104	
3605+00.00	3606+00.00	71	404	0	344	84	+260	380	178	202	
3606+00.00	3607+00.00	88	253	0	216	130	+86	373	178	195	
3607+00.00	3608+00.00	93	194	0	165	138	+27	373	178	195	
3608+00.00	3609+00.00	45	187	0	159	67	+92	365	178	187	
3609+00.00	3610+00.00	63	369	0	314	19	+295	350	178	172	
3610+00.00	3611+00.00	121	224	0	191	19	+172	569	178	391	
3611+00.00	3612+00.00	112	35	0	30	0	+30	773	178	595	
3612+00.00	3613+00.00	100	108	0	92	0	+92	789	178	611	
3613+00.00	3614+00.00	86	117	0	100	0	+100	756	178	578	
3614+00.00	3615+00.00	71	168	0	143	0	+143	675	178	497	
3615+00.00	3616+00.00	58	219	0	187	2	+185	563	178	385	
3616+00.00	3617+00.00	26	273	0	233	2	+231	476	178	298	
3617+00.00	3618+00.00	26	285	17	257	45	+212	562	178	384	
3618+00.00	3619+00.00	62	248	39	244	99	+145	678	178	500	
3619+00.00	3620+00.00	71	218	50	228	230	+2	671	178	493	
3620+00.00	3621+00.00	78	315	62	321	315	+6	556	178	378	
3621+00.00	3622+00.00	43	468	34	427	139	+288	375	178	197	
3622+00.00	3623+00.00	54	551	0	469	21	+448	312	178	134	
3623+00.00	3624+00.00	108	547	0	465	60	+405	391	178	213	
3624+00.00	3625+00.00	100	439	34	403	150	+253	454	178	276	
3625+00.00	3626+00.00	91	239	34	233	128	+105	604	160	444	
3626+00.00	3627+00.00	86	0	0	0	50	+50	863	141	722	
3627+00.00	3628+00.00	41	0	0	0	34	+34	782	141	641	
3628+00.00	3629+00.00	10	0	0	0	23	+23	525	141	384	
3629+00.00	3630+00.00	26	39	0	34	49	+15	271	141	130	
3630+00.00	3631+00.00	39	63	21	72	89	+17	49	71	-22	
3631+00.00	3632+00.00	52	111	32	122	102	+20	15	0	15	
3632+00.00	3633+00.00	65	148	23	146	73	+73	15	0	15	
3633+00.00	3634+00.00	76	160	28	160	84	+76	15	0	15	
3634+00.00	3635+00.00	86	185	17	172	56	+116	15	0	15	
<b>TOTAL</b>		<b>10,782</b>	<b>108,266</b>	<b>546</b>	<b>92,567</b>	<b>6,003</b>	<b>86,564</b>	<b>28,818</b>	<b>26,713</b>	<b>2,105</b>	

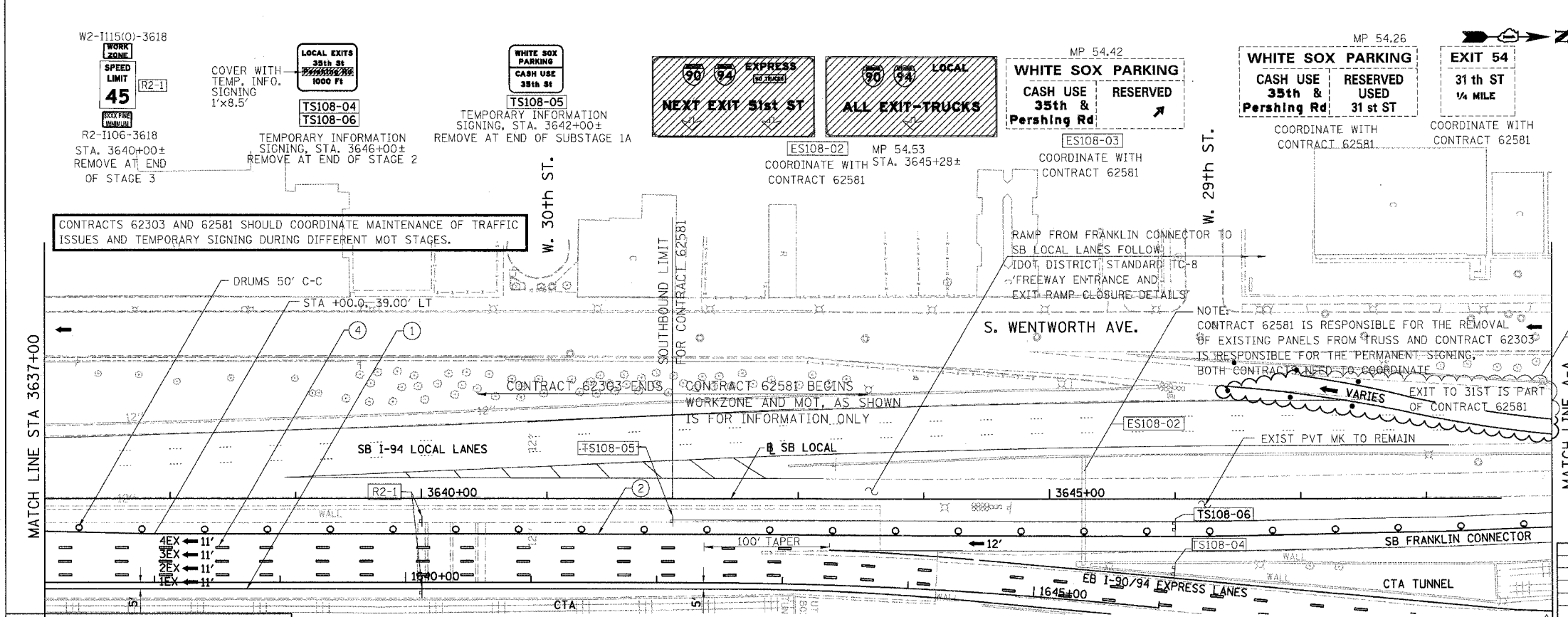
NOTES

- AVAILABLE QUANTITIES FOR 'EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL' ARE ESTIMATED BASED ON EXISTING MATERIAL THICKNESSES OBTAINED FROM AS-BUILT DRAWINGS, AS SHOWN ON THE TYPICAL SECTIONS. IT WAS ASSUMED THAT 3" OF THE EXISTING SUBBASE GRANULAR MATERIAL THICKNESS WILL NOT MEET THE REQUIREMENTS OF THE SPECIAL PROVISION FOR 'EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL', AND THIS REDUCTION IN AVAILABLE VOLUME IS REFLECTED IN THE PLAN QUANTITIES.
- END AREAS SHOWN IN

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	91
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		



- LEGEND:**
- 1 → LANE NUMBER AND DIRECTION OF TRAFFIC
  - ▨ WORK AREA
  - ▨ TEMPORARY PAVEMENT
  - ∞ IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
  - DRUM OR BARRICADE TYPE II WITH STEADY BURNING LIGHT
  - ▬ BARRICADE TYPE III
  - ▬ TEMPORARY CONCRETE BARRIER
  - ① LINE 4" (YELLOW EDGE)
  - ② LINE 4" (WHITE EDGE)
  - ③ LINE 4" (SKIP DASH, 6' SKIP - 2' DASH, WHITE)
  - ④ LINE 5" (SKIP DASH, 30' SKIP - 10' DASH, WHITE)
  - ⑤ LINE 8" (WHITE GORE LINE)
  - ⑥ LINE 8" (SKIP DASH, 12' SKIP - 3' DASH, WHITE)
  - ⑦ LINE 12" (DIAGONAL, 30' C-C, WHITE)
  - ⑧ LETTERS AND SYMBOLS
  - ES-XXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
  - GS-XXX-XX EXISTING POST MOUNTED SIGNS
  - TS-XXX-XX TEMPORARY SIGNS
- +XX.XX STATION PROVIDED FROM THE ± SB I-90/94 EXPRESS LANES  
 (+XX.XX) STATION PROVIDED FROM THE ± SB I-90/94 LOCAL LANES



REVISIONS	NAME	DATE
ADDENDUM 2		8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
 STAGE I

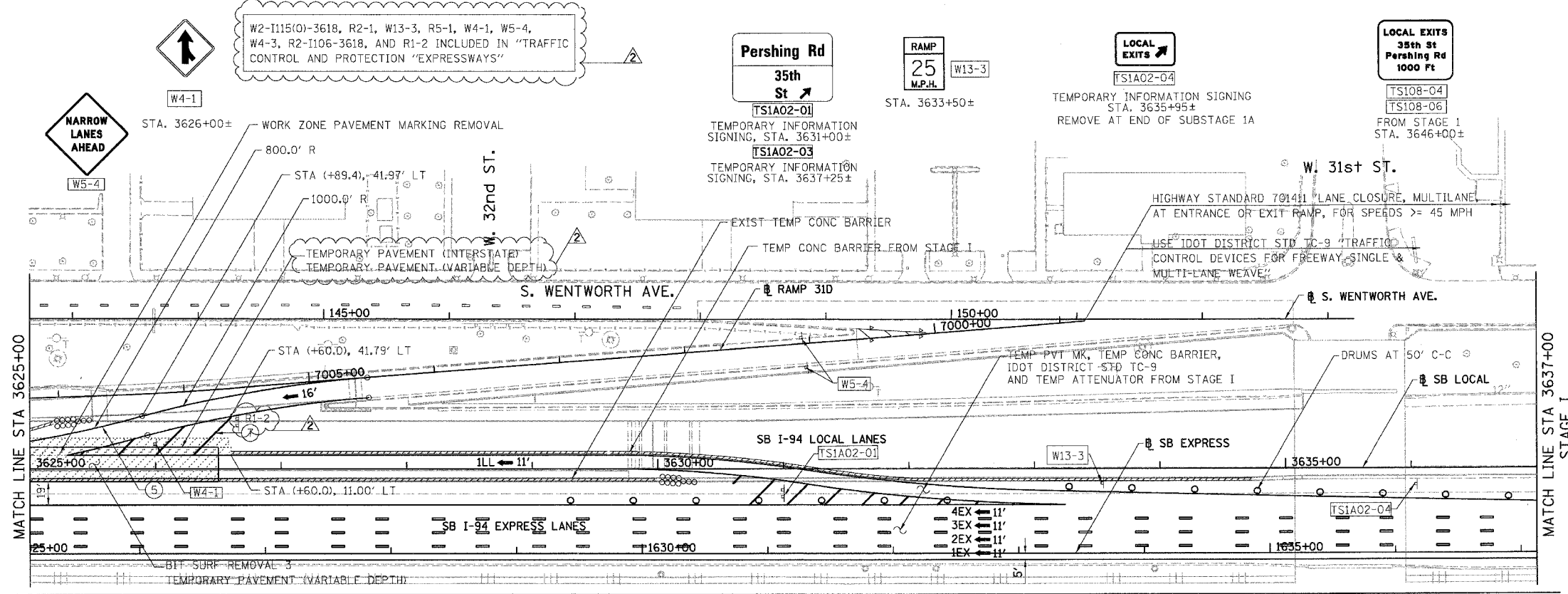
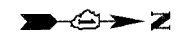
SCALE: 1"=50'  
 DATE: 06/09/06  
 DRAWN BY: RA  
 CHECKED BY: RS

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 CONSULTING ENGINEERS  
 Chicago, Illinois  
 312.228.0100  
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SB I-94/90 EXPRESS LANES TEMPORARY PAVEMENT MARKINGS INSTALLED IN STAGE I TO REMAIN TO END OF STAGE 3, UNLESS OTHERWISE SPECIFIED IN SUBSTAGE IA.

11/20/06 12:58:31 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEET NO.
94/90	*	COOK	588 94
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
62303		(2021-922 PT2 ETC 2324.6-1P) R-11	



- LEGEND:**
- 1 → LANE NUMBER AND DIRECTION OF TRAFFIC
  - ▨ WORK AREA
  - ▨ TEMPORARY PAVEMENT
  - ∞ IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
  - DRUM OR BARRICADE TYPE II WITH STEADY BURNING LIGHT
  - ⊥ BARRICADE TYPE III
  - ▬ TEMPORARY CONCRETE BARRIER
  - ① LINE 4" (YELLOW EDGE)
  - ② LINE 4" (WHITE EDGE)
  - ③ LINE 4" (SKIP DASH, 6' SKIP - 2' DASH, WHITE)
  - ④ LINE 5" (SKIP DASH, 30' SKIP - 10' DASH, WHITE)
  - ⑤ LINE 8" (WHITE GORE LINE)
  - ⑥ LINE 8" (SKIP DASH, 12' SKIP - 3' DASH, WHITE)
  - ⑦ LINE 12" (DIAGONAL, 30' C-C, WHITE)
  - ⑧ LETTERS AND SYMBOLS
  - ES-XXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
  - GS-XXX-XX EXISTING POST MOUNTED SIGNS
  - TS-XXX-XX TEMPORARY SIGNS
- +XX.XX STATION PROVIDED FROM THE ± SB I-90/94 EXPRESS LANES  
 (XX.XX) STATION PROVIDED FROM THE ± SB I-90/94 LOCAL LANES

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SB I-94/90 EXPRESS LANES TEMPORARY PAVEMENT MARKINGS WERE INSTALLED IN STAGE I, UNLESS OTHERWISE SPECIFIED IN SUBSTAGE IA.  
 CROSS OVER RAMPS TEMPORARY PAVEMENT MARKINGS INSTALLED IN STAGE I TO REMAIN TO NEXT STAGE, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

0 50' 100'

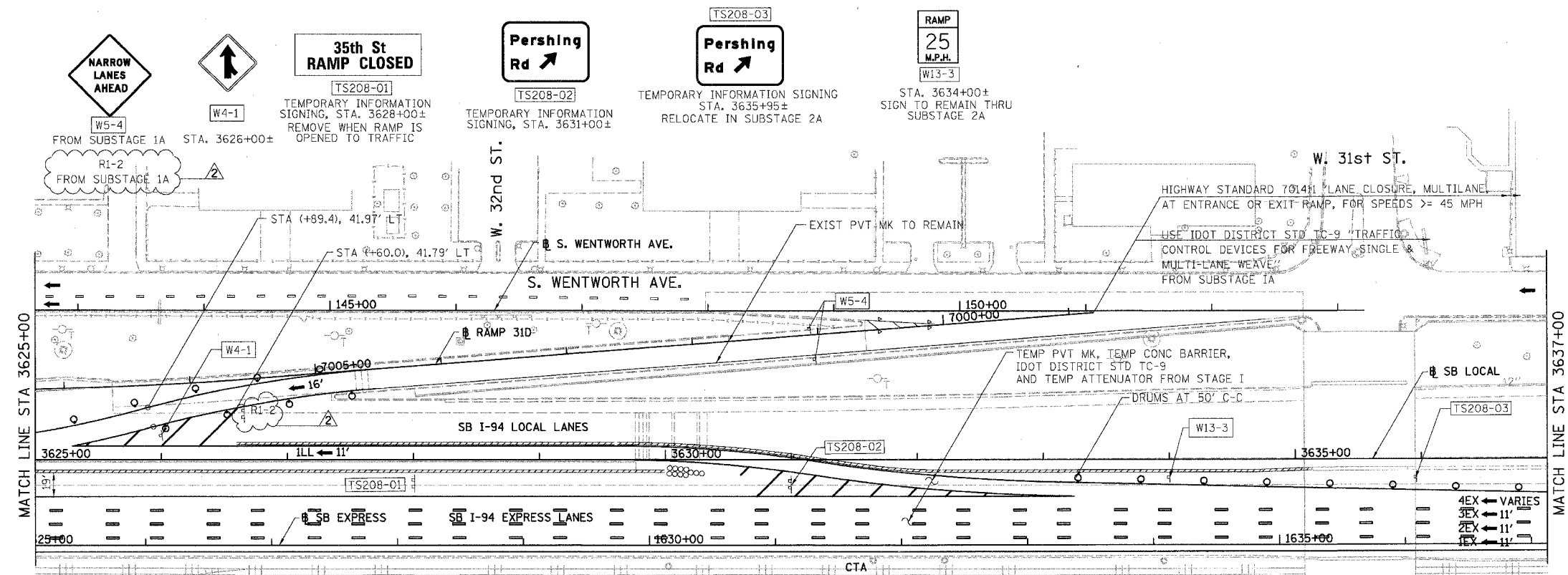
MOT-IA02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 SUGGESTED STAGES OF CONSTRUCTION  
 AND TRAFFIC CONTROL  
 SUBSTAGE IA

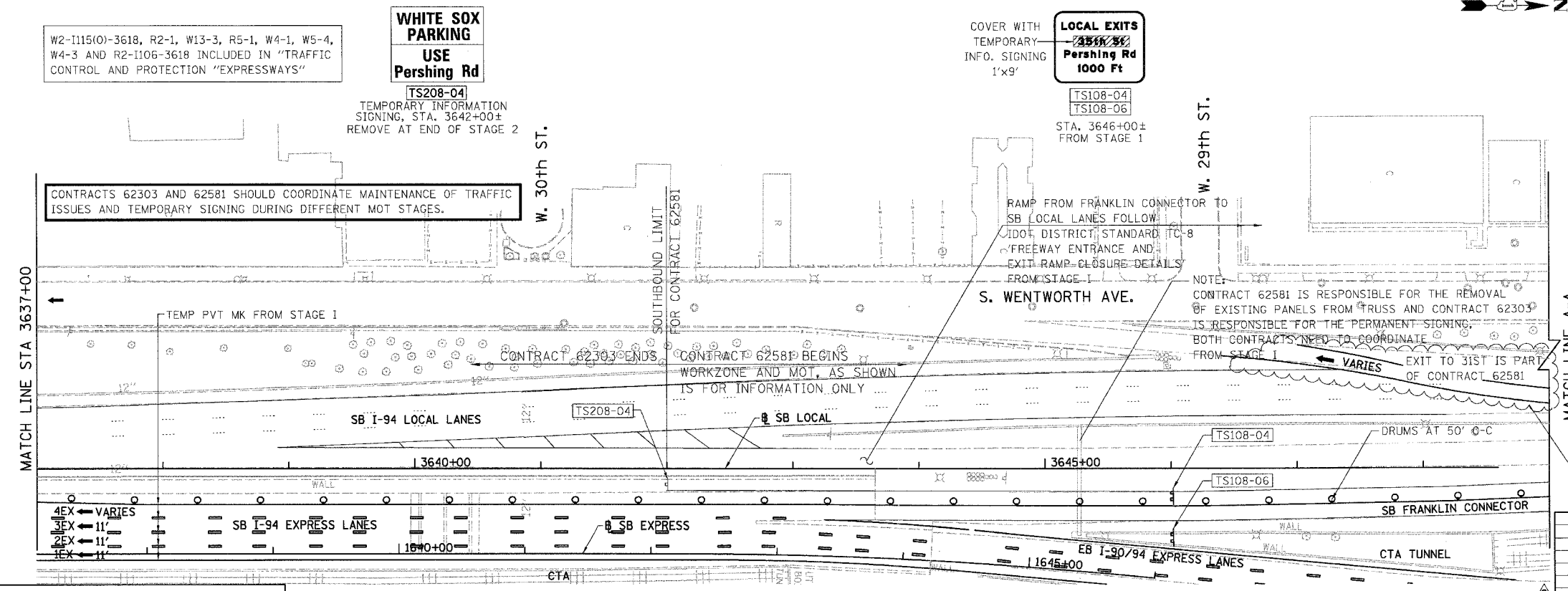
SCALE: 1"=50'  
 DATE: 06/09/06

DRAWN BY: RA  
 CHECKED BY: RS

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	102
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	* (2021-922 PT2 ETC 2324.6-1P) R-11			



- LEGEND:**
- 1 → LANE NUMBER AND DIRECTION OF TRAFFIC
  - ▨ WORK AREA
  - ▨ TEMPORARY PAVEMENT
  - ⊘ IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
  - ⊘ DRUM OR BARRICADE TYPE II WITH STEADY BURNING LIGHT
  - ⊘ BARRICADE TYPE III
  - ▨ TEMPORARY CONCRETE BARRIER
  - ① LINE 4" (YELLOW EDGE)
  - ② LINE 4" (WHITE EDGE)
  - ③ LINE 4" (SKIP DASH, 6' SKIP - 2' DASH, WHITE)
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  - ⑥ LINE 8" (SKIP DASH, 12' SKIP - 3' DASH, WHITE)
  - ⑦ LINE 12" (DIAGONAL, 30' C-C, WHITE)
  - ⑧ LETTERS AND SYMBOLS
  - ES-XXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
  - GS-XXX-XX EXISTING POST MOUNTED SIGNS
  - TS-XXX-XX TEMPORARY SIGNS
  - +XX.XX STATION PROVIDED FROM THE ± SB I-90/94 EXPRESS LANES
  - (+XX.XX) STATION PROVIDED FROM THE ± SB I-90/94 LOCAL LANES



REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
 STAGE 2  
 SCALE: 1"=50'  
 DATE: 06/09/06  
 DRAWN BY: RA  
 CHECKED BY: RS

BOWMAN, BARRETT & ASSOCIATES INC.  
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SB I-94/90 EXPRESS LANES TEMPORARY PAVEMENT MARKINGS WERE INSTALLED IN STAGE I AND SUBSTAGE IA, UNLESS OTHERWISE SPECIFIED IN STAGE 2. CROSS OVER RAMPS TEMPORARY PAVEMENT MARKINGS INSTALLED IN PREVIOUS STAGE TO REMAIN TO NEXT STAGE, UNLESS OTHERWISE SPECIFIED.

15660 VARIOUS DRAWINGS SHEETS 5880 - 9/07/02.dgn  
 156402 PW  
 9/4/2006



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	134
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1PR-11)			

**DRAINAGE & UTILITIES NOTES:**

- 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 ON THE PLANS.
- 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 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.
- 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 TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, INLETS, 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 CONNECTIONS UNTIL INSTALLATION IS COMPLETE, INCLUDING PAVEMENT. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- WHEN, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN DRAINAGE STRUCTURES AND THE FLOW OF WATER IS OBSTRUCTED, IT MUST BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES (NEW AND EXISTING) MUST BE FREE OF ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- THE CONTRACTOR MUST PROTECT THE EXISTING MAIN DRAIN DROP MANHOLES FROM THE ENTRY OF ANY LOOSE MATERIAL AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- THE CONTRACTOR MUST PROTECT NEW DRAINAGE STRUCTURES FROM THE ENTRY OF ERODED SOILS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- THE LOCATION OF DRAINAGE STRUCTURES AND PIPES CONSTRUCTED UNDER PREVIOUS CONTRACTS IS BASED ON CONTRACT PLAN DRAWINGS AVAILABLE DURING DESIGN. THE CONTRACTOR MUST FIELD VERIFY LIMITS, LOCATIONS, AND ELEVATIONS OF PREVIOUS CONSTRUCTION.
- STORM SEWER PLUGS MUST BE INCLUDED IN THE COST OF THE ASSOCIATED PIPE REMOVAL ITEMS AND WILL NOT BE PAID SEPARATELY.
- 'PIPE UNDERDRAINS 6" (SPECIAL)' WILL BE USED TO CONNECT TO DRAINAGE STRUCTURES. CONNECTION ELEVATIONS MUST BE DETERMINED BY THE CONTRACTOR BASED ON A MINIMUM LATERAL CONNECTING SLOPE OF 1%.
- THE CONTRACTOR MUST ENSURE POSITIVE DRAINAGE TO ALL INLETS, CATCHBASINS, AND OPEN MANHOLES.
- GRATES MUST BE INSTALLED WITH THE VANES ORIENTED AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL TEMPORARY OR PERMANENT CONNECTIONS OF SEWERS AND UNDERDRAINS TO PROPOSED AND EXISTING DRAINAGE STRUCTURES, INCLUDING ANY NEW HOLES REQUIRED IN THE DRAINAGE STRUCTURE, MUST BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED STORM SEWER OR PIPE UNDERDRAIN ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- STATION AND OFFSET VALUES GIVEN FOR EXISTING STRUCTURES REPRESENT THE APPROXIMATE CENTER OF THE EXISTING CASTING.
- DRAINAGE REMOVALS IN THE VICINITY OF THE CTA ARE SHOWN BASED ON RECORD DRAWINGS AND SURVEY WHERE AVAILABLE. ALL EXISTING ACTIVE DRAINAGE CONNECTIONS FROM THE CTA MUST BE MAINTAINED. ALL ACTIVE DRAINAGE CONNECTIONS FROM THE CTA DISCOVERED DURING CONSTRUCTION MUST BE MAINTAINED AS DIRECTED BY THE ENGINEER. MAINTENANCE OF ANY ACTIVE DRAINAGE CONNECTIONS FROM THE CTA THAT ARE DISCOVERED DURING CONSTRUCTION WILL NOT BE PAID SEPARATELY, BUT MUST BE INCLUDED IN THE COST OF THE ASSOCIATED DRAINAGE REMOVAL ITEMS.
- STATION AND OFFSET VALUES GIVEN FOR PROPOSED DRAINAGE STRUCTURES REPRESENT THE CENTER OF THE CASTING.
- EXISTING LATERAL SEWERS WITHIN THE DAN RYAN PROJECT LIMITS (FRONTAGE ROAD AND MAINLINE) THAT ARE TO REMAIN IN PLACE, MUST BE CLEANED OF SILT OR ANY OTHER DEBRIS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AS 'CLEANING STORM SEWERS'.

- ALL PROPOSED LATERAL STORM SEWERS MUST BE INSTALLED AT A MINIMUM SLOPE OF 1% UNLESS OTHERWISE INDICATED. CONNECTIONS TO EXISTING SEWERS OR STRUCTURES MUST BE INCLUDED WITH THE ASSOCIATED STORM SEWER PAY ITEM. FRONTAGE ROAD STORM SEWER LATERALS WILL VARY BASED ON EXISTING SEWER INVERTS AND UTILITY CONFLICTS.
- ALL SEWERS TO BE ABANDONNED MUST BE FILLED WITH GROUT SLURRY AND PLUGGED AT THE UPSTREAM END.
- TOP OF FRAME ELEVATIONS ON DRAINAGE STRUCTURES MUST BE MODIFIED TO MEET FINISHED SHOULDER AND CURB AND GUTTER FLOWLINE ELEVATIONS AS DIRECTED BY THE ENGINEER.
- FOR CLARITY, PIPE UNDERDRAINS IN THE PLAN VIEW ARE NOT NECESSARILY DRAWN IN THEIR EXACT INSTALLATION LOCATIONS. SEE TYPICAL SECTIONS AND DRAINAGE DETAILS FOR EXACT LOCATIONS OF PIPE UNDERDRAINS.
- FOR IDOT ITEMS, THE CONTRACTOR MUST USE FLAT SLAB TOPS IN LIEU OF CONICALLY TAPERED TOPS FOR MANHOLES AND CATCHBASINS WHEREVER NECESSARY TO AVOID CONFLICTS WITH EXISTING UTILITIES. FLAT SLAB TOPS WILL NOT BE MEASURED FOR PAYMENT, BUT MUST BE INCLUDED IN THE UNIT COST OF THE ASSOCIATED DRAINAGE STRUCTURES.
- IF FIELD CONDITIONS REQUIRE COMED ASSISTANCE (MANHOLE FRAME/COVER ADJUSTMENTS), CONTACT COMED PROJECT ENGINEER, DON RIES, 773-838-2905, SIX WEEKS PRIOR TO START OF WORK IN THE RELATED AREA.
- IF FIELD CONDITIONS REQUIRE AT&T ASSISTANCE (MANHOLE FRAME/COVER ADJUSTMENTS), CONTACT AT&T, STAN PLODZIEN, 708-396-7608, 48 HOURS NOTIFICATION REQUIRED.
- EXISTING PIPE UNDERDRAIN LOCATED BETWEEN THE EXPRESS LANES AND THE LOCAL LANES IS TO REMAIN IN SERVICE AND MUST BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO THIS EXISTING UNDERDRAIN MUST BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- PROPOSED PIPE UNDERDRAIN POSITIONS SHOWN ON THE DRAINAGE PLANS ARE APPROXIMATE. SEE TYPICAL SECTIONS FOR ACTUAL PROPOSED UNDERDRAIN POSITIONS.

**DRAINAGE & UTILITIES LEGEND:**

	EXISTING	PROPOSED
STORM SEWER		
PIPE UNDERDRAIN		
WATER MAIN		
GAS MAIN		
SANITARY SEWER		
CABLE TELEVISION		
FIBER OPTIC		
TELEPHONE		
ELECTRIC		
IDOT ELECTRICAL CONDUIT		
UTILITY REMOVAL		
ABANDONNED UTILITY		
MAIN DRAIN SEWER		
INLET		
CATCH BASIN		
MANHOLE		
SURFACE DRAINAGE STRUCTURE (SEE SCHEDULE FOR TYPE)		
PGL CREST POINT		
PGL SAG POINT		
DRAINAGE STRUCTURE NUMBER**		
STRUCTURE TO BE CLEANED		
STRUCTURE TO BE FILLED		
STRUCTURE TO BE REMOVED		
STRUCTURE TO BE RECONSTRUCTED		
STRUCTURE TO BE ADJUSTED		
FRAMES AND GRATES TO BE ADJUSTED		
STRUCTURE TO BE ADJUSTED, SPECIAL		
HIGH MAST LIGHT TOWER LOCATION - SEE HIGH MAST TOWER SCHEDULE FOR DETAILS		

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- SEE ELECTRICAL INFRASTRUCTURE SHEETS, AND CONTRACTS 62583 AND 62733 FOR ADDITIONAL INFORMATION
- DRAINAGE STRUCTURE NUMBERING CONVENTION:  
'CC' = DAN RYAN CONTRACT NUMBER (EX. STR. ONLY)  
(14 = IDOT CONTRACT 62300)  
(15 = IDOT CONTRACT 62302)  
'SS' = SHEET NUMBER IN DRAINAGE & UTILITY SEQUENCE  
'XX' = STRUCTURE NUMBER ON SHEET

REVISIONS	
NAME	DATE
REVISED	6/21/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
**DRAINAGE SCHEDULES**  
**DRAINAGE NOTES & LEGEND**  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: JAM  
CHECKED BY: DDM

DN-01  
12/17/07 PW  
01/14/2008

EXISTING DRAINAGE STRUCTURES

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	143
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	* (2021-922 PT2 ETC 2324.6-1PR-11			

STATION	OFFSET	REMOVING			TO BE ADJUSTED				TO BE RECONSTRUCTED	FILLING		STR. TO BE CLEANED
		MANHOLES	CATCH BASINS	INLETS	CB NEW TIF OL	MH NEW TIF CL	FRAMES AND GRATES	DRN. STR. SPECIAL	MH NEW TIF CL	MANHOLES	CATCH BASINS	
3625+68.6	37.0' LT			1								
3626+02.7	63.3' LT			1								
3626+12.3	6.5' RT						1					
3626+32.3	0.6' RT		1									
3626+32.3	6.5' RT						1					
3627+36.0	50.0' LT			1								
3627+96.4	47.2' LT		1									
3628+66.9	116.0' LT											1
3630+65.1	48.6' LT		1									
3630+71.6	4.4' RT						1	△				
3632+20.1	50.9' LT		1									
3632+28.0	4.2' RT						1	△				
3633+20.1	53.9' LT		1									
3633+66.9	117.9' LT											1
3633+77.7	4.3' RT						1					
3634+50.1	4.8' RT						1					
3635+27.9	5.2' RT						1	△				
3636+14.3	4.3' RT						1					
3636+32.8	2.3' RT					1		△				
3637+17.9	116.7' LT											1
3637+26.3	2.7' RT					1		△				
3637+37.4	4.3' RT						1					
3538+41.6	3.6' RT					1		△				
3638+79.8	4.4' RT						1					
3640+41.7	4.0' RT					1		△				
3640+94.1	1.3' RT					1						
3641+04.1	3.9' RT						1					
3642+28.0	2.1' RT					1		△				
3643+01.7	0.5' LT					1						
3643+21.8	3.8' RT					1						
TOTALS		13	129	91	4	23	64	21	2	2	47	15

• WITH NEW TYPE 20 F&G △

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REVISIONS	
NAME	DATE
REVISED	6/22/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE SCHEDULES  
EXISTING DRAINAGE STRUCTURES  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: OC  
CHECKED BY: DDM

DS-09  
3/4/2006 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	145
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		2021-922 PT2 ETC 2324.6-1P1R-11		

SCHEDULE OF DRAINAGE STRUCTURES

STR. NUMBER	STATION	OFFSET	RIM ELEV.	CATCH BASIN					MANHOLE	INVERT ELEVATIONS	TEMP. SOIL RET. SYS.	ROCK EXCAVATION
				TA 4 DIA	TA 4 DIA	TA 4 DIA	TA 4 DIA	TC	TA 4 DIA			
				T1F OL	T8G	T20F&G	T24F&G	T20F&G	T1F CL			
24-01	3530+33.00	45.0' LT	0.81			1				-6.83SE,		
24-02	3531+68.00	46.6' LT	1.41			1				-5.5SE,		
24-03	3532+96.00	49.4' LT	1.44			1				-4.36SE,		
24-04	3532+66.30	92.6' LT	15.33			1				10.11NW,		
24-05	3532+67.54	109.5' LT	15.07			1				6.43NE, 9.93SE,		
25-01	3534+36.00	52.6' LT	1.14			1				-7.61SE,		
25-02	3534+32.10	97.5' LT	9.92			1				2.48NE, 4.78SW,		
25-03	3634+96.00	53.9' LT	0.96			1				-9.54SE, -4.19NW, -9.44SW,		
25-04	3534+98.15	92.7' LT	6.96			1				-3.22SE, 1.78SW,		
25-05	3535+65.00	55.0' LT	0.85	△		1				-7.34SE,		
25-06	3536+87.04	3.8' RT	3.39	1						-5.5SE, -5.4NW,		
25-07	3536+87.00	55.0' LT	0.48			1				-4.81SE,		
25-08	3537+16.51	63.3' LT	1.63			1				-4.1NW,		
25-09	3537+17.54	83.2' LT	0.86			1				-4.4NE, -4.3SE,		
25-10	3537+54.22	81.5' LT	0.65			1				-4.85NE, -4.75SW,		
25-11	3537+71.19	80.7' LT	0.62	△		1				-5.11NE, -5.01SW,		
25-12	3537+91.53	5.5' RT	4.07	1						-7.34SE, -7.24NW,		
25-13	3537+91.59	53.1' LT	1.38	1						-6.83SE, -5.66NW, -6.73NE,		
25-14	3537+92.96	79.6' LT	0.66			1				-5.4SE, -5.3SW, -4.9NE,		
25-15	3538+06.56	79.0' LT	0.73			1				-4.75SW, -4.65NE,		
25-16	3538+37.92	77.5' LT	0.93			1				-4.35SW, -4.25NE,		
25-17	3538+53.59	76.7' LT	1.04			1				-4.1SW,		
25-18	3538+99.36	51.5' LT	2.14	1						-4.52E, -4.42W,		
25-19	3538+95.34	74.7' LT	1.33			1				-4.19E, -4.09NE,		
25-20	3534+47.00	58.0' LT	2.78					1		-7.84N, -8.72NE, -6.68SW,		
25-21	3537+60.00	53.0' LT	1.17	△				1		-6.56S,		
26-01	3539+14.52	7.2' RT	4.87	1						-6.03SE, -5.13W,		
26-02	3539+73.48	71.0' LT	1.86			1				-3.34SW,		
26-03	3540+46.25	67.4' LT	2.37			1				-2.91SE, -2.81NE,		
26-04	3541+55.10	62.1' LT	3.36			1				-1.76SW,		
26-05	3542+51.26	56.9' LT	4.62			1				-0.55NE,		
26-06	3543+00.07	52.8' LT	5.18			1				-1.13SE, -1.03SW,		
26-07	3543+99.39	51.6' LT	5.84			1				0.72N,		
26-08	3540+22.19	48.5' LT	3.03					1		-5.7S, -5.7E,		
27-01	3544+39.37	52.9' LT	5.97			1				0.22N, 0.32S,		
27-02	3544+70.35	53.9' LT	6.04			1				-0.19E, -0.09S, 0.31N,		
27-03	3545+01.33	55.0' LT	6.08			1				0.62S, 0.72N,		
27-04	3545+24.32	55.7' LT	6.11			1				0.95S,		
27-05	3546+40.26	59.6' LT	5.65			1				-1.72E, -1.62N,		
27-06	3547+42.20	63.0' LT	4.58	△		1		△		-1.11S, -1.01,		
27-07	3547+42.78	41.0' LT	5.09	1						-0.9E,		
27-08	3548+24.16	65.7' LT	2.88			1				-6.05EN, -4.36NW, -5.07E, -5.45NE,		
27-09	3548+76.99	68.3' LT	3.23		△	1	△			-3.91S, -3.81N,		
28-09	3549+17.50	71.5' LT	1.87	1						-3.41S, -3.31N,		
28-01	3549+31.69	72.8' LT	3.36			1				-3.17S, -1.77NE, -2.77NW,		

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REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE SCHEDULES  
PROPOSED STRUCTURES  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: JAM  
CHECKED BY: DDM

DS-11

W:\660\94090\DWG\145\145.DWG 8/14/2006 5:27:01 PM



SCHEDULE OF DRAINAGE STRUCTURES

STR. NUMBER	STATION	OFFSET	RIM ELEV.	CATCH BASIN					MANHOLE	INVERT ELEVATIONS	TEMP. SOIL RET. SYS.	ROCK EXCAVATION
				TA 4 DIA	TA 4 DIA	TA 4 DIA	TA 4 DIA	TC	TA 4 DIA			
				T1F OL	T8G	T20F&G	T24F&G	T20F&G	T1F CL			
28-02	3549+28.58	52.5' LT	4.14			1				-1.56SW,		
28-03	3549+60.00	47.0' LT	1.65			1				-3.71N,		
28-04	3549+87.00	47.0' LT	1.21			1				-4.08E, -3.98S,		
28-05	3550+25.71	85.3' LT	5.04			1				-1.81SE, -0.11S,		
28-06	3551+41.00	47.0' LT	-1.29			1				-7.55E,		
28-07	3552+59.00	45.0' LT	-3.12			1				-8.6N,		
28-08	3553+59.00	45.0' LT	-4.37			1				-9.7E, -9.6S, -9.6NW,		
28-10	3550+01.39	85.7' LT	4.56		1					0.13N,		
28-11	3553+66.50	49.0' LT	-2.59		1					-9.52SE,		
29-01	3554+62.00	45.0' LT	-4.94			1				-10.24N,		
29-02	3554+91.45	45.0' LT	-4.97	1						-10.63E, -10.53S, -10.53N, -10.13NW,		
29-03	3555+28.00	46.3' LT	-4.92			1				-10.17S,		
29-04	3556+45.00	47.0' LT	-4.24			1				-10.66E,		
29-05	3557+92.00	48.5' LT	-2.52			1				-7.73E,		
29-06	3554+99.00	49.0' LT	-3.13		1					-10.04SW,		
30-01	3559+92.00	52.5' LT	-0.79			1				-6E,		
30-02	3561+62.13	98.0' LT	2.18			1				-4.84NE,		
30-03	3562+77.00	55.0' LT	-0.97			1				-6.88E, -6.78NW,		
30-04	3562+94.30	64.0' LT	-0.64			1				-6.59SE, -6.49NW,		
30-05	3562+96.39	83.9' LT	-1.02			1				-6.29SE, -6.19SW,		
30-06	3563+95.00	51.1' LT	-1.77	1						-7.05NW,		
30-07	3563+97.83	73.2' LT	-2.14			1				-7.37NE, -7.27SE,		
30-08	3561+75.33	106.9' LT	5.02				1			-6N, -6SE,		
31-01	3564+82.37	64.4' LT	-3.10			1				-9.62E, -8.22SW,		1.75
31-02	3566+62.00	59.5' LT	-5.19			1				-10.29E,		3.22
31-03	3567+35.00	59.5' LT	-5.45			1				-10.61N,		3.89
31-04	3567+50.20	59.5' LT	-5.46			1				-10.86E, -10.76S, -10.76N,		4.08
31-05	3567+65.00	59.5' LT	-5.45			1				-10.61S,		3.89
31-06	3568+08.00	59.5' LT	-5.34			1				-10.47E,		4.04
32-01	3570+02.14	59.5' LT	-3.12			1				-8.36E, -8.26N,		2.64
32-02	3571+00.19	59.5' LT	-1.43			1				-7.31S,		
32-03	3572+15.23	60.2' LT	0.16			1				-7.31E, -6.01N,		
32-04	3573+10.13	63.7' LT	0.85			1				-5.06S, -4.96N,		
33-01	3574+09.93	69.1' LT	1.20			1				-3.96S,		
33-02	3574+66.77	73.0' LT	1.72			1				-4.99E, -3.49NW, -4.98W,		
33-03	3574+71.23	53.2' LT	2.14			1				-5.26E, -5.16W,		
33-04	3574+70.00	47.0' LT	1.32			1				-5.42E, -5.32W,		
33-05	3575+29.53	77.9' LT	2.90			1				-2.89SE,		
33-06	3577+15.00	47.0' LT	-0.68			1				-5.93E, -5.83W,		
33-07	3577+26.37	98.3' LT	10.72			1				-5.58E,		
34-01	3579+58.00	47.0' LT	-4.90			1				-10.2E,		
34-02	3581+02.00	47.0' LT	-6.10			1				-11.45E,		
34-03	3581+32.00	47.0' LT	-6.16			1				-11.78E, -11.68N,		
34-04	3581+47.50	47.0' LT	-6.17	1						-11.53S, -11.43N,		
34-05	3581+62.00	47.0' LT	-6.14			1				-11.28S,		

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REVISED	6/22/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE SCHEDULES  
PROPOSED STRUCTURES  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: JAM  
CHECKED BY: DDM

DS-12  
16:38:53 PM  
5/4/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	147
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1PR-11		

SCHEDULE OF DRAINAGE STRUCTURES

STR. NUMBER	STATION	OFFSET	RIM ELEV.	CATCH BASIN					MANHOLE	INVERT ELEVATIONS	TEMP. SOIL RET. SYS.	ROCK EXCAVATION
				TA 4 DIA T1F OL	TA 4 DIA T8G	TA 4 DIA T20F&G	TA 4 DIA T24F&G	TC T20F&G	TA 4 DIA T1F CL			
34-06	3582+91.18	47.4' LT	-5.37			1				-10.78E,		
34-07	3583+95.19	48.1' LT	-3.90			1				-9.27E, -9.17N,		
35-01	3584+10.19	48.5' LT	-3.63			1				-9.02E,		
35-02	3585+80.14	52.8' LT	0.00			1				-5.29E,		
35-03	3587+80.07	57.8' LT	4.14			1				-1.22E,		
36-01	3589+77.01	62.7' LT	7.13			1				1.79E,		
36-02	3591+33.63	52.8' LT	9.23			1				3.24NE, 3.34W,		
36-03	3591+31.36	72.7' LT	8.85			1				3.54NE,		
36-04	3591+45.00	47.0' LT	9.56			1				3.02E, 3.12SW, -6.62NW,		
36-05	3592+87.00	47.0' LT	10.76			1				5.63E,		
37-01	3594+05.00	47.0' LT	11.38			1				6.25E,		
37-02	3597+36.00	47.0' LT	11.32			1				6.17E,		
37-03	3598+36.00	47.0' LT	10.77			1				5.65E,		
38-01	3599+86.00	49.7' LT	9.48			1				4.3E,		
38-02	3601+65.00	53.3' LT	7.18			1				2.04E,		
38-03	3603+58.18	55.0' LT	3.87			1				-1.34E, 1.11SW,		
39-01	3604+45.58	83.0' LT	2.42			1				-4.22NE, -3.42SE,		
39-02	3604+43.84	63.1' LT	2.80			1				-3.22NW, -3.12E,		
39-03	3604+45.00	55.0' LT	2.10	△		1				-3.04W,		
39-04	3605+54.97	51.0' LT	0.28	1						-5.18NW,		
39-05	3605+65.13	72.6' LT	-0.21			1				-5.82E, -5.42SW, -5.42SE, -5.72NE,		
39-06	3605+80.07	71.3' LT	-0.43			1				-5.57SW, -5.47NW,		
39-07	3606+39.85	66.1' LT	-1.14			1				-6.57NE,		
39-08	3606+97.63	61.0' LT	-1.57			1				-7.25E, -7.15SW, -7.15NE,		
39-09	3607+27.51	58.4' LT	-1.72			1				-6.85SW,		
39-10	3607+67.36	54.9' LT	-1.83			1				-7.15NE,		
39-11	3608+00.23	52.0' LT	-1.87			1				-7.58E, -7.48SW, -7.48NE,		
39-12	3608+30.60	49.4' LT	-1.83			1				-7.18SW, -7.08NE, -7.08NW,		
39-13	3608+45.00	48.9' LT	-1.80			1				-6.94SW,		
39-14	3605+87.89	74.6' LT	1.31		1					-5.38SE,		
39-15	3608+38.00	52.7' LT	0.03		1					-7SE,		
40-01	3609+47.00	48.2' LT	-1.41			1				-7.08E, -6.98N, -6.68NW,		
40-02	3609+81.00	48.2' LT	-1.14			1				-6.64S, -6.54N,		
40-03	3610+15.00	49.0' LT	-0.86			1				-6.2S, -6.1N,		
40-04	3610+30.00	49.5' LT	-0.74			1				-5.95S,		
40-05	3610+93.00	52.0' LT	-0.24			1				-8.5N,		
40-06	3611+30.00	53.4' LT	0.06			1				-8.87E, -8.87S, -5.17N,		
40-07	3611+72.00	55.0' LT	0.38			1				-4.75S, -4.65NW,		
40-08	3613+57.00	55.0' LT	1.96			1				-4.17E,		
40-09	3609+54.50	52.2' LT	0.35		1					-6.59,		
40-10	3611+79.50	59.0' LT	2.30		1					-4.57SE,		
41-01	3616+90.00	56.7' LT	1.53			1				-6.61E, -6.51N, -3.61S,		
41-02	3617+84.00	55.0' LT	0.67			1				-5.57S, -5.47W,		
41-03	3617+83.80	63.0' LT	1.46			1				-5.39E, -5.29NW,		
41-04	3617+85.54	82.9' LT	1.08			1				-5.09N,		

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NAME	DATE
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ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE SCHEDULES  
PROPOSED STRUCTURES  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: JAM  
CHECKED BY: DDM

DS-13

8/14/2006 12:46:02 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	148
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P1R-11)		

SCHEDULE OF DRAINAGE STRUCTURES

STR. NUMBER	STATION	OFFSET	RIM ELEV.	CATCH BASIN					MANHOLE	INVERT ELEVATIONS	TEMP. SOIL RET. SYS.	ROCK EXCAVATION
				TA 4 DIA TIF OL	TA 4 DIA T8G	TA 4 DIA T20F&G	TA 4 DIA T24F&G	TC T20F&G	TA 4 DIA TIF CL			
41-05	3618+30.00	52.6' LT	0.37			1				-4.87N,		
41-06	3618+92.00	50.6' LT	-0.28	1						-5.59W, -5.49S,		
41-07	3618+94.13	73.4' LT	-0.69			1				-5.92NE, -5.82E,		
41-08	3616+37.00	59.0' LT	3.80		1					-3.08N,		
42-01	3619+29.99	70.2' LT	-1.09			1				-7.18E, -6.28SW, -3.54S, -6.28NW,		
42-02	3619+44.93	68.9' LT	-1.25			1				-6.43SW,		
42-03	3620+48.53	59.8' LT	-2.26			1				-7.41E,		
42-04	3621+47.00	60.5' LT	-3.55			1				-8.69E, -8.59NW,		
42-05	3622+65.00	62.0' LT	-4.14			1				-9.28N,		
42-06	3622+80.00	61.6' LT	-4.11			1				-10.93E, -9.43S, -9.33N, -9.23SW,		
42-07	3622+94.69	61.1' LT	-4.06			1				-9.18S,		
42-08	3623+91.81	59.0' LT	-3.38			1				-8.73E, -8.63N, -6.65W,		
42-09	3619+37.81	73.5' LT	0.67		1					-6.2SE,		
42-10	3621+77.00	65.6' LT	-2.10		1					-8.28SE,		
42-11	3622+72.51	65.9' LT	-2.29		1					-9.14NE,		
43-01	3624+06.82	59.0' LT	-3.23			1				-8.48S, -8.38,		
43-02	3625+22.85	60.1' LT	-1.97			1				-7.22N, -7.12SE,		
43-03	3626+17.68	64.2' LT	-1.11			1				-8.21N,		
43-04	3626+32.63	65.1' LT	-0.97			1				-8.46E, -8.36S, -6.46N,		
43-05	3627+36.29	73.1' LT	0.45			1				-5.42S, -5.32E,		
43-06	3627+37.85	53.2' LT	0.83			1				-5.12W, -5.02E,		
43-07	3627+37.00	47.0' LT	0.46			1				-4.96W, -4.86N,		
43-08	3627+96.39	47.0' LT	0.89			1				-4.27S, -3.96W,		
43-09	3625+30.21	64.4' LT	-0.06		1					-7.04SE,		
44-01	3630+65.23	47.0' LT	-0.58			1				-4E,		
44-02	3632+20.09	50.9' LT	-1.81			1				-5.37E,		
44-03	3633+73.95	55.1' LT	-3.18			1				-6.62E, -6.62NW,		
44-04	3633+81.50	59.2' LT	-1.42		1					-6.53N, -6.43SE,		
44-05	3635+09.00	62.3' LT	-2.58		1					-6.62S,		
TOTALS				14	14	175	11	10	7		13712	61.7

14

175

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NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE SCHEDULES  
PROPOSED STRUCTURES  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: JAM  
CHECKED BY: DDM

DS-14

8/14/2006 5:30:05 PM W:\660\road\94\90\94\90\SHEET 15 660\_15.DWG

SCHEDULE OF STORM SEWERS

FROM STR. NO.	TO STR. NO.	LENGTH (FEET)	DIAMETER (INCHES)	SLOPE (%)	SS CL A 2, 12	SS CL A 2, 15	SS CL A 2, 18	SS WMQP 12	TRENCH BACKFILL (CU. YD.)	ROCK EXCAVATION
24-01	15-29-03	63.8	12	1.00%	63.8				13.4	
24-02	15-29-07	64.5	12	1.00%	64.5				10.7	
24-03	15-29-11	68.9	12	1.00%	68.9				8.1	
25-01	15-29-14	68.4	12	1.00%	68.4				57.9	
25-03	15-29-17	79.3	12	0.50%	79.3				87.1	
25-04	25-03	35.9	12	2.50%	35.9				11.7	
25-02	25-04	66.0	12	1.00%	66.0				12.8	
24-05	25-02	161.0	12	1.00%	161.0				41.3	
24-04	24-05	13.8	12	1.00%	13.8				1.0	
25-05	15-29-21	72.3	18	1.00%			72.3		62.9	
25-06	15-30-03	27.2	12	1.00%	27.2				21.1	
25-07	25-06	55.8	12	1.00%	55.8				14.9	
25-12	15-30-06	19.6	12	1.00%	19.6				20.9	
25-13	25-12	54.6	12	0.70%	54.6				46.2	
25-14	25-13	23.0	12	1.00%	23.0				4.8	
25-11	25-14	14.8	12	1.00%	14.8				2.0	
25-10	25-11	12.2	12	1.00%	12.2				1.3	
25-09	25-10	30.9	12	1.00%	30.9				2.8	
25-08	25-09	18.0	12	1.00%	18.0				1.8	
25-15	25-14	11.0	12	1.00%	11.0				1.1	
25-16	25-15	25.9	12	1.00%	25.9				2.3	
25-17	25-16	11.0	12	1.00%	11.0				0.7	
26-01	15-30-09	30.9	12	1.00%	30.9				33.8	
25-18	26-01	56.6	12	1.00%	56.6				22.6	
25-19	25-18	20.5	12	1.00%	20.5				3.2	
26-02	25-19	70.9	12	1.00%	70.9				6.5	
26-03	15-30-12	72.1	12	1.00%	72.1				21.7	
26-04	26-03	100.8	12	1.00%	100.8				7.7	
26-06	15-31-03	61.5	15	1.00%		61.5			21.8	
26-05	26-06	44.4	12	1.00%	44.4				5.7	
27-02	15-31-06	58.4	12	1.00%	58.4				14.6	
27-01	27-02	27.0	12	1.00%	27.0				4.1	
26-07	27-01	36.0	12	1.00%	36.0				3.5	
27-03	27-02	27.0	12	1.00%	27.0				3.1	
27-04	27-03	19.0	12	1.00%	19.0				1.5	
27-05	15-31-10	64.2	12	1.00%	64.2				21.6	
27-06	27-05	98.0	12	0.50%	98.0				20.9	
27-08	15-32-03	70.6	12	1.00%	70.6				58.5	
27-07	27-06	18.0	12	0.50%	18.0				2.4	
27-09	27-08	40.9	12	1.00%	40.9				11.5	
28-09	27-09	36.6	12	1.00%	36.6				6.4	
28-01	28-09	10.3	12	1.00%	10.3				1.3	
28-02	28-01	18.0	12	1.00%	18.0				1.7	
28-05	28-01	90.8	12	1.00%	90.8				19.5	
28-10	28-05	20.3	12	1.00%	20.3				0.7	

SCHEDULE OF STORM SEWERS

FROM STR. NO.	TO STR. NO.	LENGTH (FEET)	DIAMETER (INCHES)	SLOPE (%)	SS CL A 2, 12	SS CL A 2, 15	SS CL A 2, 18	SS WMQP 12	TRENCH BACKFILL (CU. YD.)	ROCK EXCAVATION
28-04	15-32-07	51.2	12	1.00%	51.2				5.7	
28-03	28-04	23.0	12	1.00%	23.0				1.9	
28-06	15-32-11	51.2	12	1.00%	51.2				5.5	
28-08	15-32-15	51.5	12	1.00%	51.5				5.7	
28-07	28-08	96.0	12	1.00%	96.0				9.4	
28-11	28-08	4.5	12	1.00%	4.5				0.5	
29-02	15-33-09	49.3	12	1.00%	49.3				7.0	
29-01	29-02	25.0	12	1.00%	25.0				2.5	
29-03	29-02	31.8	12	1.00%	31.8				3.1	
29-06	29-02	4.5	12	1.00%	4.5				0.2	
29-04	15-33-13	50.3	12	1.00%	50.3				1.3	
29-05	15-33-17	53.1	12	1.00%	53.1				5.5	
30-01	15-34-03	57.1	12	1.00%	57.1				6.3	
30-03	15-34-07	59.5	12	1.00%	59.5				11.0	
30-04	30-03	15.5	12	1.00%	15.5				2.1	
30-05	30-04	18.0	12	1.00%	18.0				2.0	
30-02	30-05	131.0	12	1.00%	131.0				22.8	
31-01	15-34-11	68.9	12	1.00%	68.9				17.8	10.58
30-07	31-01	81.0	12	1.00%	81.0				6.4	
30-06	30-07	19.3	12	1.00%	19.3				1.5	
31-02	15-35-03	63.2	12	0.50%	63.2				6.6	15.01
31-04	15-35-13	64.1	12	1.00%	64.1				9.6	19.26
31-03	31-04	11.0	12	1.00%	11.0				0.8	7.07
31-05	31-04	11.0	12	1.00%	11.0				0.8	7.07
31-06	15-35-15	64.7	12	1.00%	64.7				1.5	19.31
32-01	15-35-21	64.1	12	1.00%	64.1				8.1	13.39
32-02	32-01	91.2	12	1.00%	91.2				10.3	
32-03	15-36-03	64.7	12	1.00%	64.7				22.6	
32-04	32-03	91.0	12	1.00%	91.0				15.3	
33-01	32-04	95.9	12	1.00%	95.9				10.6	
33-04	15-36-08	51.8	12	0.80%	51.8				13.1	
33-03	33-04	2.4	12	1.00%	2.4				0.2	
33-02	33-03	18.2	12	0.80%	18.2				4.5	
33-05	33-02	56.0	12	1.00%	56.0				6.2	
33-06	15-36-12	51.6	12	1.00%	51.6				5.4	
33-07	33-06	49.5	12	VAR.					3.7	
34-01	15-37-01	51.5	12	1.00%	51.5				5.8	
34-02	15-37-07	51.5	12	1.00%	51.5				6.0	
34-03	15-37-13	51.8	15	1.00%			51.8		7.0	
34-04	34-03	11.5	12	1.00%	11.5				1.1	
34-05	34-04	10.5	12	1.00%	10.5				0.7	
34-06	15-37-21	50.4	12	1.00%	50.4				6.1	
34-07	15-38-01	52.7	12	1.00%	52.7				6.1	
35-01	34-07	11.0	12	1.00%	11.0				0.9	
35-02	15-38-08	57.3	12	1.00%	57.3				6.5	

• 49.5'-12" DUCTILE IRON PIPE STORM SEWER

REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 DRAINAGE SCHEDULES  
 PROPOSED STORM SEWER PIPES  
 SCALE: 1"=N.T.S.  
 DATE: 06/09/06  
 DRAWN BY: JAM  
 CHECKED BY: DDM

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

SCHEDULE OF STORM SEWERS

FROM STR. NO.	TO STR. NO.	LENGTH (FEET)	DIAMETER (INCHES)	SLOPE (%)	SS CL A 2, 12	SS CL A 2, 15	SS CL A 2, 18	SS WMQP 12	TRENCH BACKFILL (CU. YD.)	ROCK EXCAVATION
35-03	15-38-12	62.3	12	1.00%	62.3				8.1	
36-01	15-38-16	67.2	12	1.00%	67.2				9.8	
36-04	15-39-03	51.5	12	1.00%	51.5				12.3	
36-02	36-04	8.8	12	1.00%	8.8				1.3	
EX CB	36-04	61.5	12	1.00%	61.5				5.7	
36-03	36-02	18.0	12	1.00%	18.0				2.0	
36-05	15-39-07	51.5	12	1.00%	51.5				4.9	
37-01	15-39-11	51.5	12	1.00%	51.5				4.9	
37-02	15-40-03	51.5	12	1.00%	51.5				5.0	
37-03	15-40-07	51.5	12	1.00%	51.5				4.8	
38-01	15-40-11	54.3	12	1.00%	54.3				5.5	
38-02	15-40-15	57.8	12	1.00%	57.8				6.0	
38-03	15-41-03	60.1	12	1.00%	60.1				6.3	
39-05	15-41-07	77.1	12	1.00%	77.1				13.2	
39-01	39-05	116.0	12	1.00%	116.0				18.1	
39-02	39-01	18.0	12	1.00%	18.0				2.6	
39-03	39-02	4.2	12	1.00%	4.2				0.3	
39-04	39-05	20.9	12	1.00%	20.9				1.9	
39-06	39-05	11.0	12	1.00%	11.0				0.9	
39-14	39-06	4.5	12	1.00%	4.5				0.4	
39-08	15-41-09	63.5	12	1.00%	63.5				10.5	
39-07	39-08	54.0	12	1.00%	54.0				6.0	
39-09	39-08	26.0	12	1.00%	26.0				2.4	
39-11	15-42-06	56.6	12	1.00%	56.6				8.9	
39-10	39-11	29.0	12	1.00%	29.0				3.0	
39-12	39-11	26.5	12	1.00%	26.5				2.8	
39-15	39-12	4.1	12	1.00%	4.1				0.4	
39-13	39-12	10.4	12	1.00%	10.4				0.7	
40-01	15-42-09	51.3	12	1.00%	51.3				7.5	
40-02	40-01	30.0	12	1.00%	30.0				3.3	
40-09	40-01	4.5	12	1.00%	4.5				0.5	
40-03	40-02	30.0	12	1.00%	30.0				2.8	
40-04	40-03	11.0	12	1.00%	11.0				0.8	
40-06	15-42-13	57.9	12	1.00%	57.9				44.1	
40-05	40-06	33.2	12	1.00%	33.2				13.8	
40-07	40-06	38.0	12	1.00%	38.0				2.9	
40-10	40-07	4.5	12	1.00%	4.5				0.2	
40-08	15-42-17	59.5	12	1.00%	59.5				0.2	
41-01	15-43-03	62.5	12	1.50%	62.5				7.7	
41-02	41-01	90.0	12	1.00%	90.0				25.3	
41-03	41-02	4.0	12	1.00%	4.0				0.5	
41-04	41-03	18.0	12	1.00%	18.0				3.5	
41-08	41-01	49.0	12	1.00%	49.0				7.9	
42-01	15-43-07	74.8	12	1.00%	74.8				16.4	
41-07	42-01	32.0	12	1.00%	32.0				2.5	

SCHEDULE OF STORM SEWERS

FROM STR. NO.	TO STR. NO.	LENGTH (FEET)	DIAMETER (INCHES)	SLOPE (%)	SS CL A 2, 12	SS CL A 2, 15	SS CL A 2, 18	SS WMQP 12	TRENCH BACKFILL (CU. YD.)	ROCK EXCAVATION
42-09	42-01	4.5	12	1.00%	4.5				0.5	
41-06	41-07	19.9	12	1.00%	19.9				1.5	
41-05	41-06	58.2	12	1.00%	58.2				4.8	
42-02	42-01	11.0	12	1.00%	11.0				0.9	
42-03	15-44-01	64.7	12	1.00%	64.7				7.2	
42-04	15-44-07	65.1	12	1.00%	65.1				7.9	
42-10	42-04	26.5	12	1.00%	26.5				3.1	
42-06	15-44-17	64.2	15	1.00%		64.2			19.5	
42-05	42-06	11.0	12	1.00%	11.0				0.8	
42-07	42-06	10.7	12	1.00%	10.7				0.7	
42-11	42-06	4.6	12	1.00%	4.6				0.5	
42-08	15-44-23	63.5	12	1.00%	63.5				8.5	
43-01	42-08	11.0	12	1.00%	11.0				0.8	
43-04	15-45-05	69.7	12	1.00%	69.7				25.3	
43-03	43-04	11.0	12	1.00%	11.0				2.8	
43-02	43-01	112.0	12	1.00%	112.0				9.1	
43-09	43-02	4.5	12	1.00%	4.5				0.5	
43-05	43-04	100.0	12	1.00%	100.0				13.1	
43-06	43-05	18.0	12	1.00%	18.0				2.5	
43-07	43-06	2.2	12	1.00%	2.2				0.1	
43-08	43-07	55.4	12	1.00%	55.4				4.7	
44-04	44-03	4.6	12	1.00%	4.6				0.0	
44-05	44-04	123.5	12	0.44%	123.5				1.5	
TOTALS					8850	182	81	395	1961.5	95.2

SCHEDULE OF DUCTILE IRON PIPE\*

STATION TO STATION	OFFSET	CONNECTING STRUCTURE	DUCTILE IRON PIPE (FT)	
3529+13.8	3530+33.0	LT	24-01	130.5
3581+93.2	3581+67.3	RT	15-37-15	33.2
3582+79.0	3582+92.4	RT	15-37-21	21.6
3608+56.3	3608+45.0	LT	39-13	19.4
3609+32.3	3609+47.0	LT	40-01	22.9
3621+97.5	3621+77.0	LT	42-10	28.5
3622+54.5	3622+65.0	LT	42-05	18.9
3635+12.8	3635+09.0	LT	44-05	12.2
TOTAL			288	

\*NOTE: FOR PROPOSED DUCTILE IRON PIPE LOCATIONS SOUTH OF 47TH STREET SEE DRAINAGE PLAN SHEETS.

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	151
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1PR-11)				

BOWMAN, BARRETT & ASSOCIATES INC.  
CONSULTING ENGINEERS  
Chicago, Illinois  
312.228.0100  
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REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE SCHEDULES  
PROPOSED STORM SEWER PIPES  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: JAM  
CHECKED BY: DDM

DS-17

8/14/2006 5:26:59 PM \\P:\600\6000\6000\94\90\90\SHEET 151.DWG

SCHEDULE OF PIPE UNDERDRAINS 6"

STATION TO STATION	OFFSET	PIPE UNDERDRAINS 6" (FT)	CONNECTING STRUCTURE	PIPE UNDERDRAINS 6" SPECIAL (FT)
3530+30.2	3529+00.0	LT	130.2	JOB LIMIT
3531+65.2	3530+35.0	LT	130.2	24-01
3532+93.2	3531+70.0	LT	123.2	24-02
5070+12.2	5065+72.0	LT	440.2	25-08
5070+14.0	5068+50.0	RT	164.0	25-02
3533+06.9	3532+98.0	LT	8.9	24-03
5068+49.0	5067+84.0	RT	65.0	25-04
3534+93.2	3534+38.0	LT	55.2	25-01
3533+15.5	3534+38.0	LT	122.5	25-01
5067+83.0	5065+70.0	RT	213.0	25-09
3535+62.2	3534+98.0	LT	64.2	25-03
3536+84.2	3535+67.0	LT	117.2	25-05
3537+21.8	3536+89.0	LT	32.8	25-07
5065+69.0	5065+35.0	RT	34.0	25-10
5065+34.0	5065+18.8	RT	15.2	25-11
5064+99.0	5065+18.8	RT	19.8	25-11
5064+86.0	5064+98.0	RT	12.0	25-14
5064+56.0	5064+85.0	RT	29.0	25-15
5064+41.0	5064+55.0	RT	14.0	25-16
5064+01.0	5064+40.0	RT	39.0	25-17
5063+26.0	5064+00.0	RT	74.0	25-19
5062+56.0	5063+25.0	RT	69.0	26-02
5061+51.0	5062+55.0	RT	104.0	26-03
5060+58.0	5061+50.0	RT	92.0	26-04
5060+09.6	5060+57.0	RT	47.4	26-05
3543+46.7	3542+98.1	LT	48.6	26-06
3543+47.7	3543+97.4	LT	49.7	26-07
7059+69.0	7059+28.0	RT	41.0	27-01
7059+29.0	7058+97.0	RT	32.0	27-02
7058+98.0	7058+66.0	RT	32.0	27-03
7058+67.0	7058+43.0	RT	24.0	27-04
7057+41.8	7058+43.0	RT	101.2	27-04
7057+35.8	7057+27.0	RT	8.8	27-05
7057+26.0	7056+25.0	RT	101.0	27-06
7056+24.0	7055+35.0	RT	89.0	27-08
7055+34.0	7054+90.0	RT	44.0	27-09
7054+89.0	7054+73.9	RT	15.1	28-09
7054+36.0	7054+73.9	RT	37.9	28-09
3549+34.4	3549+58.0	LT	23.6	28-03
3549+62.8	3549+85.0	LT	22.2	28-04
3549+89.8	3551+39.0	LT	149.2	28-06
3552+02.5	3551+39.0	LT	63.5	28-06
7053+41.0	7054+35.0	RT	94.0	28-01
7050+60.0	7053+40.0	RT	280.0	28-05
7050+44.0	7054+42.1	LT	398.1	28-02
3552+06.5	3552+57.0	LT	50.5	28-07
3552+61.8	3553+57.0	LT	95.2	28-08
3553+61.8	3554+60.0	LT	98.2	29-01
3554+64.8	3554+89.5	LT	24.6	29-02
3555+25.2	3554+93.5	LT	31.7	29-02

SCHEDULE OF PIPE UNDERDRAINS 6"

STATION TO STATION	OFFSET	PIPE UNDERDRAINS 6" (FT)	CONNECTING STRUCTURE	PIPE UNDERDRAINS 6" SPECIAL (FT)
3556+42.2	3555+30.0	LT	112.2	29-03
3557+89.2	3556+47.0	LT	142.2	29-04
3559+89.2	3557+94.0	LT	195.2	29-05
5047+88.1	5044+50.0	RT	338.1	30-02
5047+88.1	5043+17.0	LT	471.1	30-04
5044+49.0	5043+15.0	RT	134.0	30-05
3561+22.4	3559+94.0	LT	128.4	30-01
3561+23.4	3562+79.0	LT	155.6	30-03
3563+03.6	3562+75.0	LT	28.6	30-03
5043+14.0	5042+13.0	RT	101.0	30-07
5042+12.0	5041+28.0	RT	84.0	31-01
5040+73.0	5041+28.0	RT	55.0	31-01
3565+43.7	3566+60.0	LT	116.3	31-02
3566+64.8	3567+35.0	LT	70.2	31-03
3567+39.8	3567+48.2	LT	8.4	31-04
3567+64.2	3567+52.2	LT	12.0	31-04
3568+05.2	3567+69.0	LT	36.2	31-05
3569+99.5	3568+10.0	LT	189.5	31-06
7049+31.0	7050+28.0	RT	97.0	32-01
7048+16.0	7049+30.0	RT	114.0	32-02
7047+21.0	7048+15.0	RT	94.0	32-03
7046+21.0	7047+20.0	RT	99.0	32-04
7045+64.0	7046+20.0	RT	56.0	33-01
7040+16.5	7045+58.0	LT	541.5	33-03
3574+72.8	3577+13.0	LT	240.2	33-06
7045+01.0	7045+63.0	RT	62.0	33-02
3577+17.8	3579+56.0	LT	238.2	34-01
7043+03.0	7045+00.0	RT	197.0	33-05
7040+67.8	7043+02.0	RT	234.2	33-07
3579+60.8	3581+00.0	LT	139.2	34-02
3581+04.8	3581+30.0	LT	25.2	34-03
3581+34.8	3581+45.5	LT	10.7	34-04
3581+59.2	3581+49.5	LT	9.7	34-04
7051+97.0	7053+21.0	RT	124.0	34-05
7050+78.0	7050+92.0	RT	14.0	34-07
7049+08.0	7050+77.0	RT	169.0	35-01
7047+08.0	7049+07.0	RT	199.0	35-02
7045+11.0	7047+07.0	RT	196.0	35-03
7043+56.0	7045+10.0	RT	154.0	36-01
7043+13.6	7043+53.0	LT	39.4	36-02
7043+13.6	7043+55.0	RT	41.4	36-03
3592+84.2	3591+47.0	LT	137.2	36-04
3591+35.3	3591+47.0	LT	11.7	36-04
3594+02.2	3592+89.0	LT	113.2	36-05
3595+62.4	3594+07.0	LT	155.4	26-01
3595+63.4	3597+34.0	LT	170.6	26-02
3597+38.8	3598+34.0	LT	95.2	26-03
3598+38.8	3599+84.0	LT	145.2	38-01
3599+88.8	3601+63.0	LT	174.2	38-02
3601+67.8	3603+56.2	LT	188.3	38-03

SCHEDULE OF PIPE UNDERDRAINS 6"

STATION TO STATION	OFFSET	PIPE UNDERDRAINS 6" (FT)	CONNECTING STRUCTURE	PIPE UNDERDRAINS 6" SPECIAL (FT)
3603+61.0	3604+43.0	LT	82.0	39-03
5023+79.0	5022+60.0	RT	119.0	39-05
5024+27.5	5023+80.0	RT	47.5	39-01
5024+27.5	5023+82.0	LT	45.5	39-02
5022+59.0	5022+45.0	RT	14.0	39-06
5022+44.0	5021+85.0	RT	59.0	39-07
5021+84.0	5021+27.0	RT	57.0	39-08
5021+26.0	5020+97.0	RT	29.0	39-09
5020+96.0	5020+57.0	RT	39.0	39-10
5020+56.0	5020+24.0	RT	32.0	39-11
3608+03.1	3608+28.6	LT	25.5	39-13
3608+42.2	3608+32.6	LT	9.6	39-13
3609+44.2	3608+47.0	LT	97.2	39-15
3609+78.2	3609+49.0	LT	29.2	40-01
3610+12.2	3609+83.0	LT	29.2	40-02
3610+27.2	3610+17.0	LT	10.2	40-03
3610+90.2	3610+32.0	LT	58.2	40-04
3611+27.2	3610+95.0	LT	32.2	40-05
3611+69.2	3611+32.0	LT	37.2	40-06
3613+54.2	3611+74.0	LT	180.2	40-07
3614+96.3	3613+59.0	LT	137.3	40-08
3614+97.3	3616+90.0	LT	192.7	41-01
3616+94.8	3617+82.0	LT	87.2	41-02
5003+99.9	5003+67.0	LT	32.9	41-03
5003+99.9	5003+65.0	RT	34.9	41-04
5003+64.0	5002+56.0	RT	108.0	41-07
5002+55.0	5002+20.0	RT	35.0	42-01
5002+19.0	5002+05.0	RT	14.0	42-02
5002+04.0	5001+01.0	RT	103.0	42-03
3620+51.4	3621+45.0	LT	93.6	42-04
3621+49.8	3622+63.0	LT	113.2	42-05
7009+56.7	7009+42.7	RT	14.0	42-06
7009+29.0	7009+42.7	RT	13.7	42-06
7008+32.0	7009+28.0	RT	96.0	42-07
7008+17.0	7008+31.0	RT	14.0	42-08
7007+01.0	7008+16.0	RT	115.0	43-01
7006+06.0	7007+00.0	RT	94.0	43-02
7005+91.0	7006+05.0	RT	14.0	43-03
7004+87.0	7005+90.0	RT	103.0	43-04
7004+68.8	7004+86.0	RT	17.3	43-05
3627+93.6	3627+39.0	LT	54.6	43-07
3628+77.4	3627+98.4	LT	79.0	43-08
3628+78.4	3630+63.2	LT	184.8	33-01
3630+68.1	3632+18.1	LT	150.0	33-02
3632+22.9	3633+72.0	LT	149.0	33-03
3633+76.8	3635+14.2	LT	137.4	JOB LIMIT
3546+22.0	3544+72.3	RT	147.7	
3546+20.9	3546+22.1	RT/LT	67.2	
3546+35.9	3546+37.1	RT/LT	67.5	

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	153
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		• (2021-922 PT2 ETC 2324.6-1P1R-11)		

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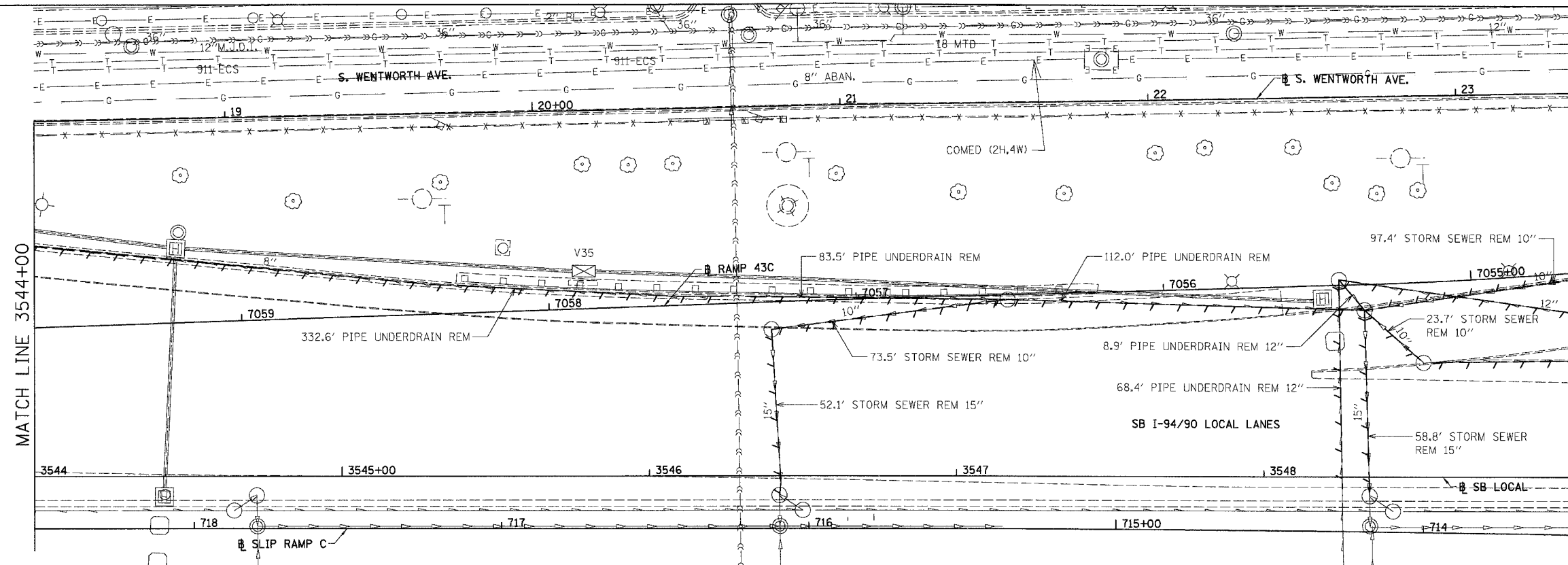
REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE SCHEDULES  
PROPOSED PIPE UNDERDRAIN  
SCALE: 1"=N.T.S.  
DATE: 06/09/06  
DRAWN BY: JAM  
CHECKED BY: DDM

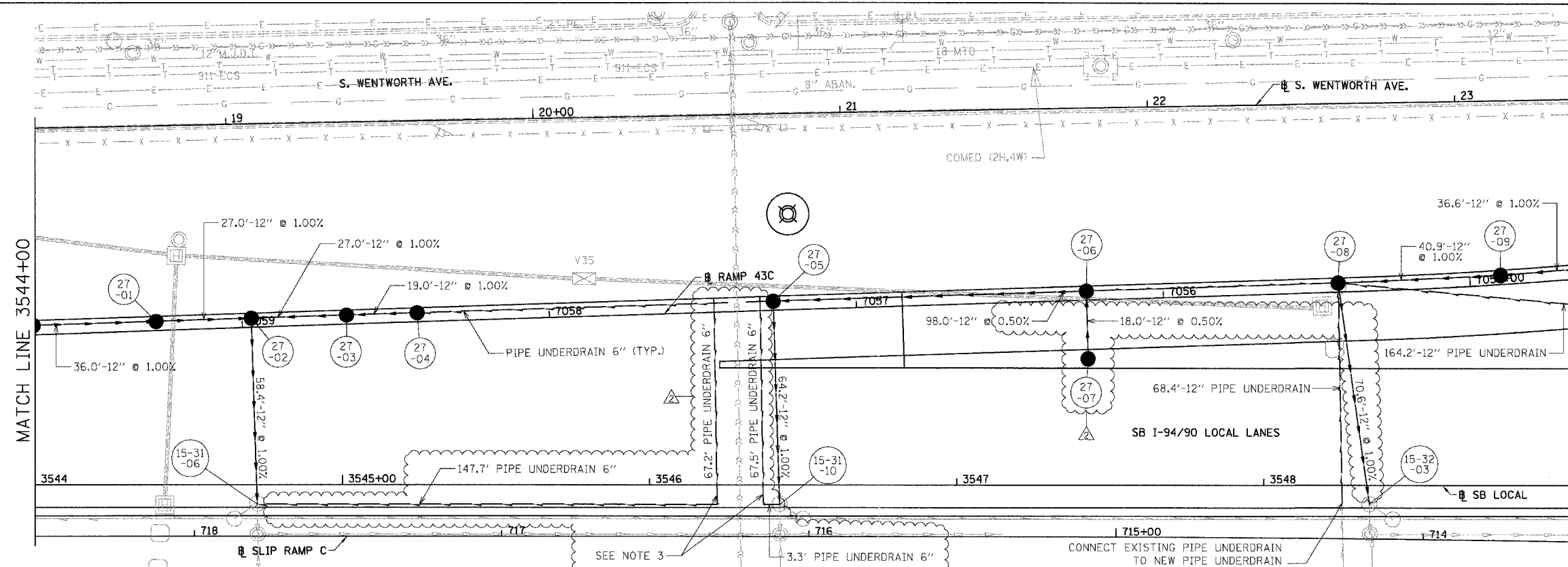
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	170
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-IPR-11)		



EXISTING CONDITIONS AND REMOVAL  
PROPOSED IMPROVEMENTS



- NOTES:
- SEE DRAINAGE SCHEDULES FOR STRUCTURE, PIPE AND UNDERDRAIN INFORMATION.
  - THE LOCATION OF DRAINAGE STRUCTURES AND PIPES CONSTRUCTED IN PREVIOUS CONTRACTS IS BASED OFF OF CONTRACT PLAN DRAWINGS, THE CONTRACTOR MUST VERIFY LIMITS OF PREVIOUS CONSTRUCTION IN THE FIELD.
  - INSTALL PIPE UNDERDRAIN AT INVERT NEAR THE BOTTOM OF EXISTING 60" COMBINED SEWER AS DIRECTED BY THE ENGINEER.



REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE AND UTILITY PLANS

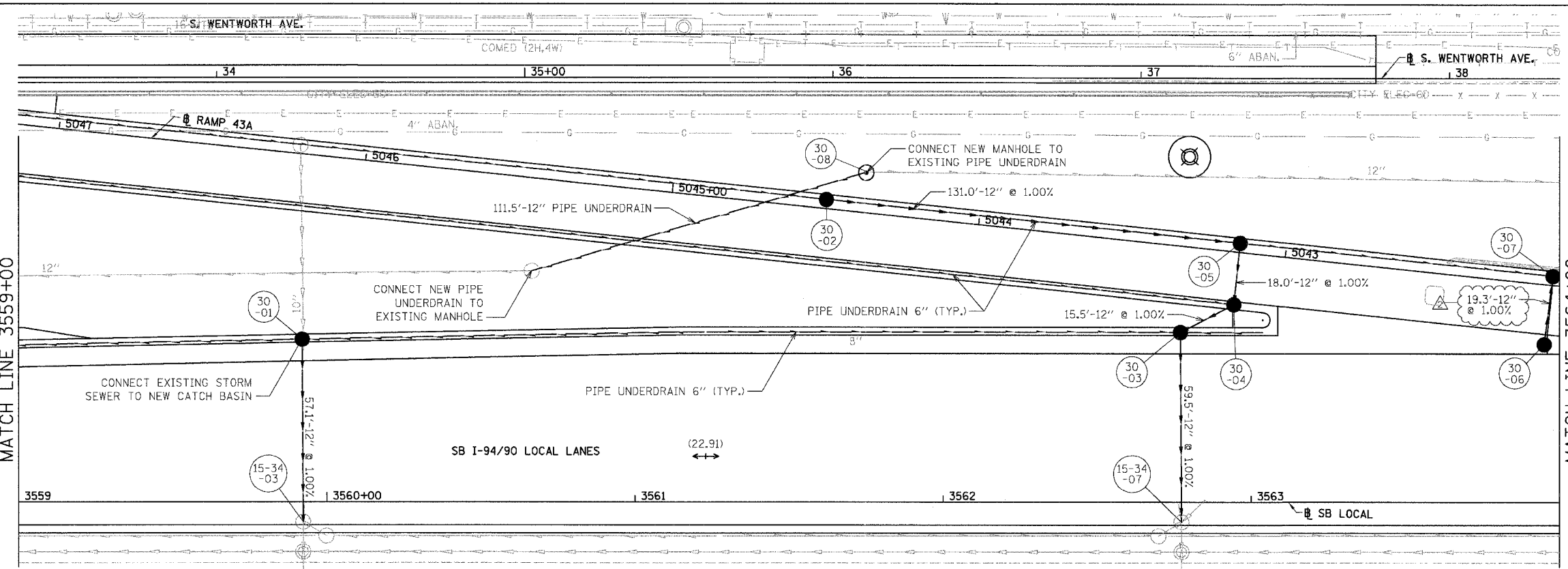
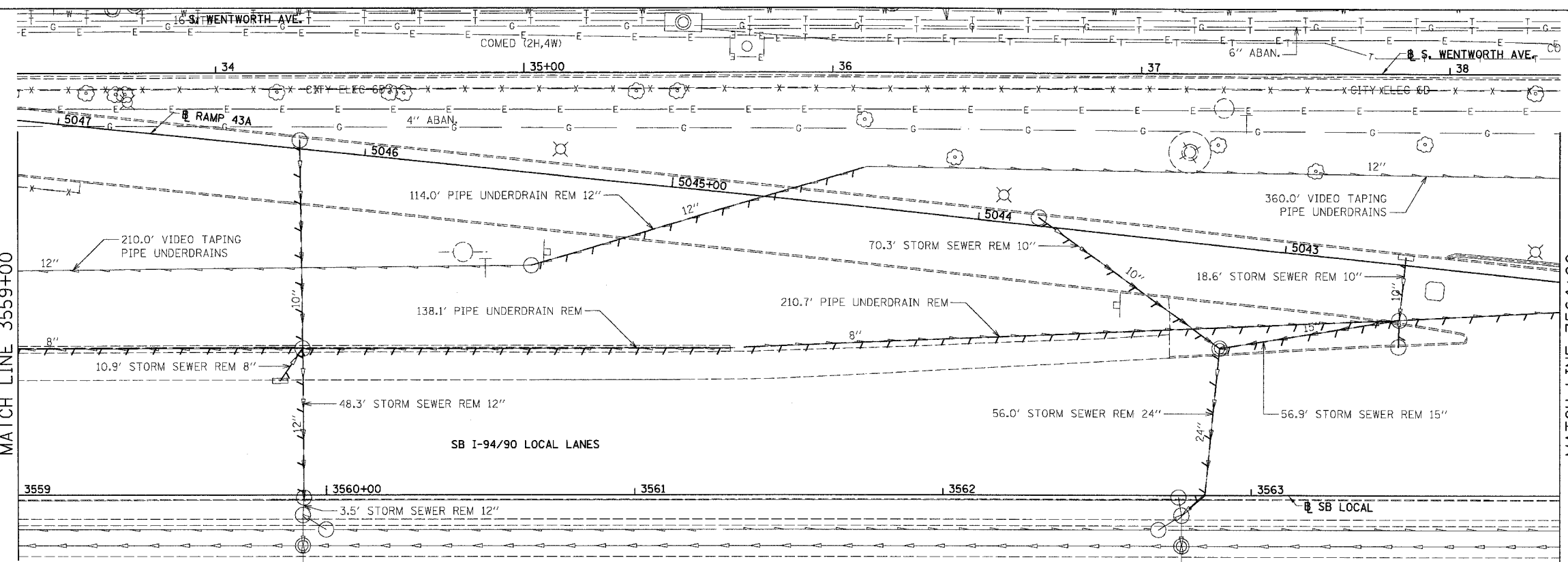
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DATE: 06/09/06

DRAWN BY: JAM  
CHECKED BY: DDM

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	173
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	(2021-922 PT2 ETC 2324.6-1PIR-11)			

EXISTING CONDITIONS AND REMOVAL  
PROPOSED IMPROVEMENTS

- NOTES:
- SEE DRAINAGE SCHEDULES FOR STRUCTURE, PIPE AND UNDERDRAIN INFORMATION.
  - THE LOCATION OF DRAINAGE STRUCTURES AND PIPES CONSTRUCTED IN PREVIOUS CONTRACTS IS BASED OFF OF CONTRACT PLAN DRAWINGS, THE CONTRACTOR MUST VERIFY LIMITS OF PREVIOUS CONSTRUCTION IN THE FIELD.



REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
DRAINAGE AND UTILITY PLANS  
SCALE: 1"=20'  
DATE: 06/09/06  
DRAWN BY: JAM  
CHECKED BY: DDM

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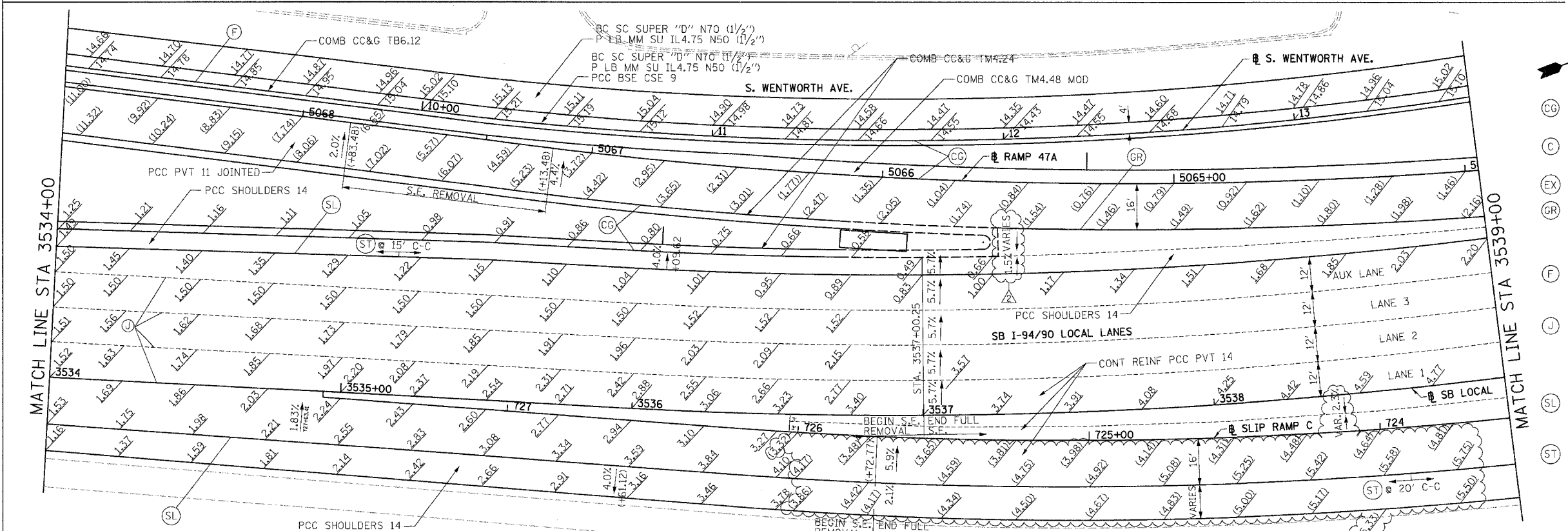
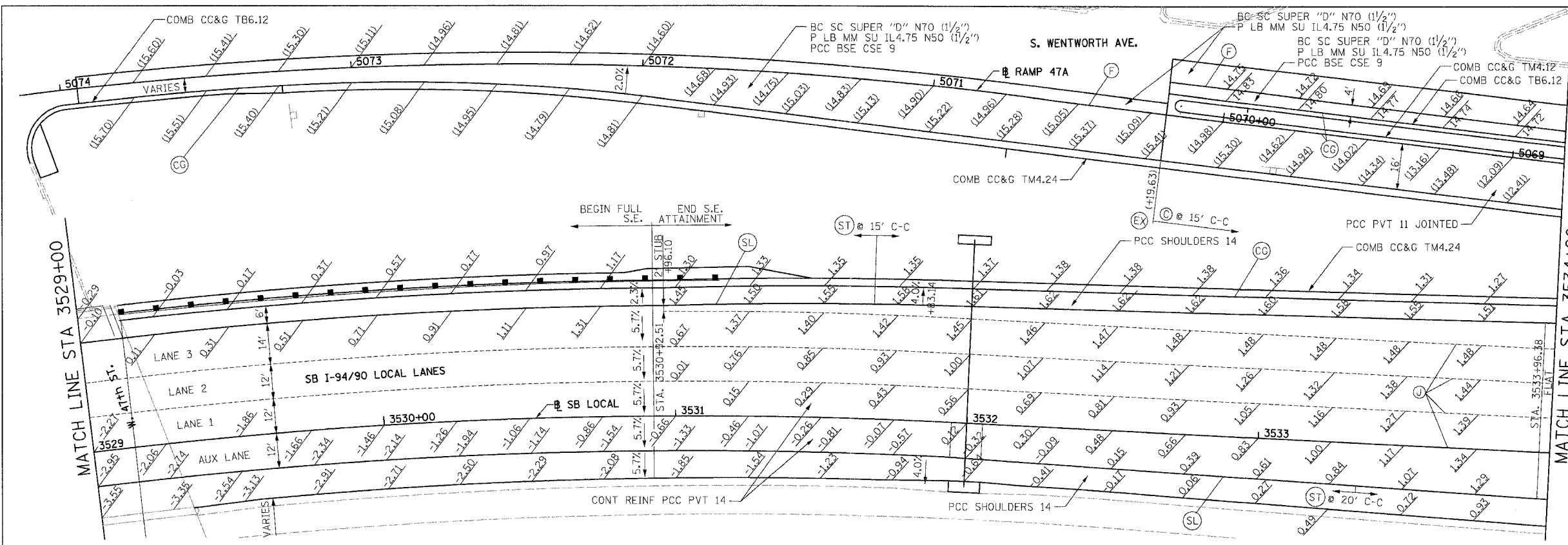


F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	216
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		*(201-922 PT2 ETC 2324.6-1P) R-11		

SWALE ELEVATIONS		
STA	OFFSET	ELEVATION
3537+27	54.0 LT	-0.92
+50	54.1 LT	1.08
+75	54.2 LT	1.25
3538+00	53.9 LT	1.42
+25	53.6 LT	1.60
+50	53.1 LT	1.77
+75	52.5 LT	1.96

SLIP RAMP SWALE ELEVATIONS		
STA	OFFSET	ELEVATION
3536+75	3.4 RT	3.32
3537+00	3.9 RT	3.48
+25	4.4 RT	3.64
+50	4.8 RT	3.80
+75	5.3 RT	3.96
3538+00	5.7 RT	4.12
+25	6.0 RT	4.28
+50	6.4 RT	4.44
+75	6.7 RT	4.62

FOR PARTIAL WIDTH FRONTAGE ROAD IMPROVEMENTS, EITHER MATCH TRANSVERSE JOINT SPACING OF EXISTING PAVEMENT WITH NEWLY INSTALLED TRANSVERSE JOINTS OR PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT 15'-0" INTERVALS. PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT THE GREATER OF THESE TWO INTERVALS. SEE DETAIL SHEETS RDT-18A AND RDT-18B FOR PCC BASE COURSE JOINT DETAILS. (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 9')



- NOTES:
- \*\*\* ELEVATION STATIONED OFF OF NB I-94/90 LOCAL LANES OR LA SALLE ST.
  - (\*\*\*) ELEVATION STATIONED OFF OF RAMP ALIGNMENT
  - SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION
  - SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  - PAVEMENT ELEVATIONS ALONG EDGE OF PAVEMENTS, EDGE OF SHOULDERS, GORES, RAMPS AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL ELEVATIONS, REFER TO THE PROFILES AND TYPICAL SECTIONS.
  - SEE ROADWAY DETAIL RDT-8 FOR THE TYING OF THE MEDIAN BARRIER BASE TO THE PCC SHOULDER.

- LEGEND:
- (CG) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 606001 WITH DRILLED & GROUTED 24" LONG TIE BARS
  - (C) SAWED TRANSVERSE JOINT PER STANDARD 420001 WITH HOT POUR SEAL
  - (EX) TRANSVERSE EXPANSION JOINT PER STANDARD 420001
  - (GR) NO BARS, KEYED LONGITUDINAL CONSTRUCTION JOINT WITH ALL KEYS FACING ONE DIRECTION ALONG INSIDE EDGE OF RAMP PAVEMENT AND SURROUNDING SHOULDER GORE
  - (F) LONGITUDINAL CONSTRUCTION JOINT WITH DRILLED & GROUTED #8 DEFORMED EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - (J) LONGITUDINAL SAWED JOINT PER STANDARD 420001
  - (J) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 420001 EXCEPT FOR DRILLED & GROUTED 24" LONG #8 TIE BARS. SEAL PER ASTM D 3405
  - (SL) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 483001 EXCEPT FOR DRILLED & GROUTED 30" LONG #8 TIE BARS
  - (ST) SAWED TRANSVERSE SHOULDER CONTRACTION JOINT PER STANDARD 483001 (MATCH RAMP PAVEMENT JOINTS IN GORE AREAS)
    - SPACED 15' C-C ALONG OUTSIDE SHOULDER
    - SPACED 20' C-C AT ALL OTHER LOCATIONS

REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
**PAVEMENT JOINTING AND ELEVATION PLANS**  
 SCALE: 1"=20'  
 DATE: 06/09/06  
 DRAWN BY: JDC  
 CHECKED BY: RS

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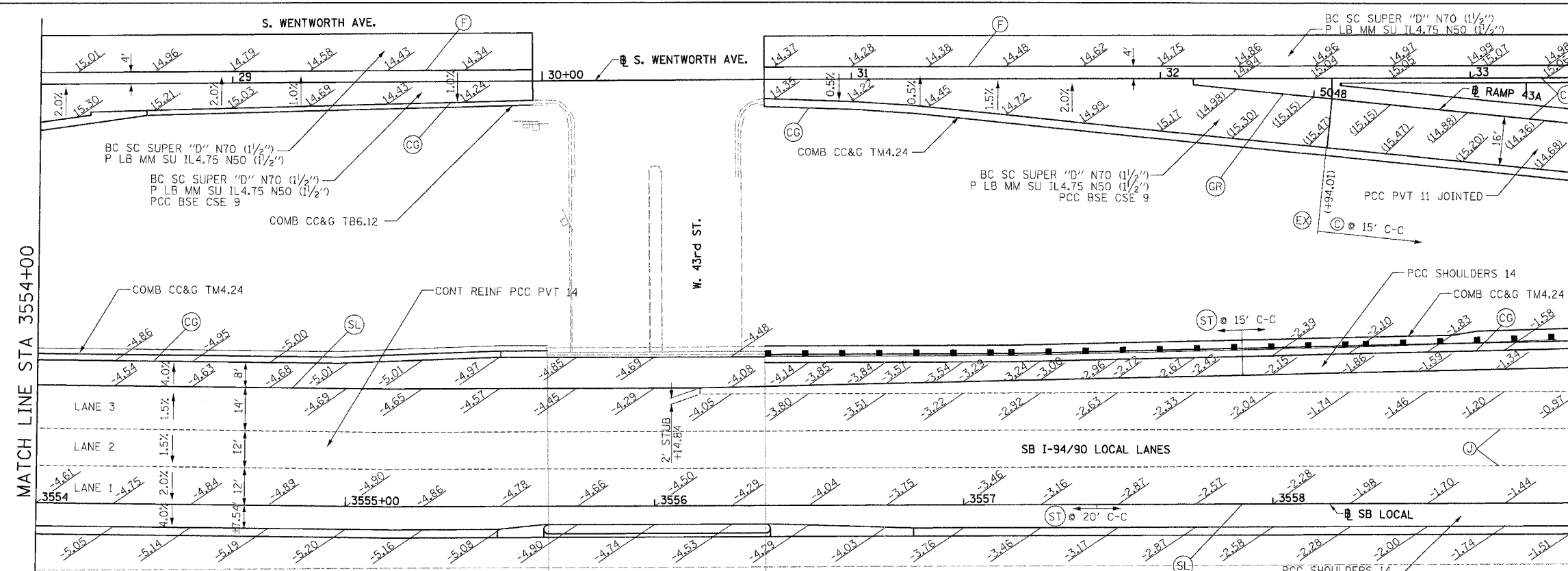
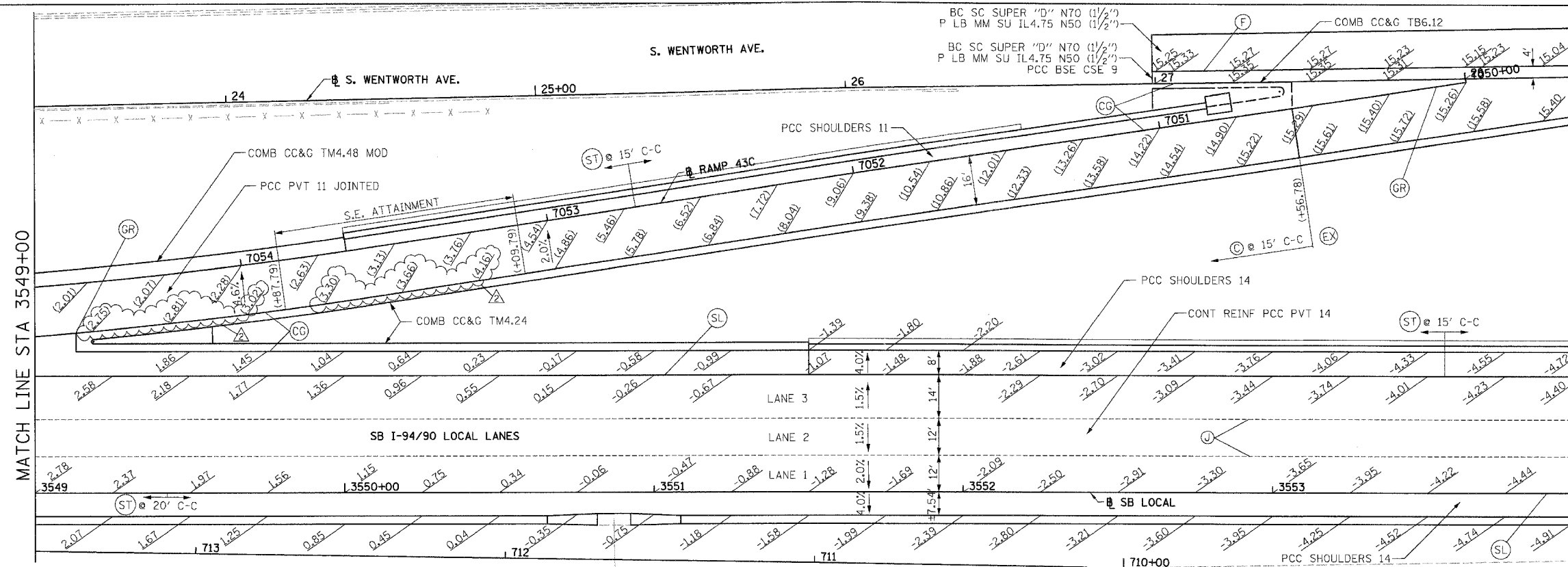
1/20/07 PJM 8/4/2006



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	218
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

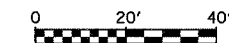
LEGEND:

- (CG) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 606001 WITH DRILLED & GROUTED 24" LONG TIE BARS
- (C) SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
- (EX) TRANSVERSE EXPANSION JOINT PER STANDARD 420001
- (GR) NO BARS, KEYED LONGITUDINAL CONSTRUCTION JOINT WITH ALL KEYS FACING ONE DIRECTION ALONG INSIDE EDGE OF RAMP PAVEMENT AND SURROUNDING SHOULDER GORE
- (F) LONGITUDINAL CONSTRUCTION JOINT WITH DRILLED & GROUTED #8 DEFORMED EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
- (J) LONGITUDINAL SAWED JOINT PER STANDARD 420001
- (SL) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 420001 EXCEPT FOR DRILLED & GROUTED 24" LONG #8 TIE BARS, SEAL PER ASTM D 3405
- (SL) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 483001 EXCEPT FOR DRILLED & GROUTED 30" LONG #8 TIE BARS
- (ST) SAWED TRANSVERSE SHOULDER CONTRACTION JOINT PER STANDARD 483001 (MATCH RAMP PAVEMENT JOINTS IN GORE AREAS)
  - SPACED 15' C-C ALONG OUTSIDE SHOULDER
  - SPACED 20' C-C AT ALL OTHER LOCATIONS



- NOTES:
1. (\*\*\*) ELEVATION STATIONED OFF OF NB I-94/90 LOCAL LANES OR LA SALLE ST.
  2. (\*\*\*) ELEVATION STATIONED OFF OF RAMP ALIGNMENT
  3. SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION
  4. SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  5. PAVEMENT ELEVATIONS ALONG EDGE OF PAVEMENTS, EDGE OF SHOULDERS, GORES, RAMPS AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL ELEVATIONS, REFER TO THE PROFILES AND TYPICAL SECTIONS
  6. SEE ROADWAY DETAIL RDT-8 FOR THE TYING OF THE MEDIAN BARRIER BASE TO THE PCC SHOULDER
  7. TRANSITION FROM 4% SHOULDER SLOPE TO THE GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

FOR PARTIAL WIDTH FRONTAGE ROAD IMPROVEMENTS, EITHER MATCH TRANSVERSE JOINT SPACING OF EXISTING PAVEMENT WITH NEWLY INSTALLED TRANSVERSE JOINTS OR PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT 15'-0" INTERVALS. PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT THE GREATER OF THESE TWO INTERVALS. SEE DETAIL SHEETS RDT-18A AND RDT-18B FOR PCC BASE COURSE JOINT DETAILS. (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 9")



REVISIONS	NAME	DATE
REVISED		6/23/06
ADDENDUM 2		8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 PAVEMENT JOINTING  
 AND ELEVATION PLANS  
 SCALE: 1"=20'  
 DATE: 06/09/06  
 DRAWN BY: JDC  
 CHECKED BY: RS

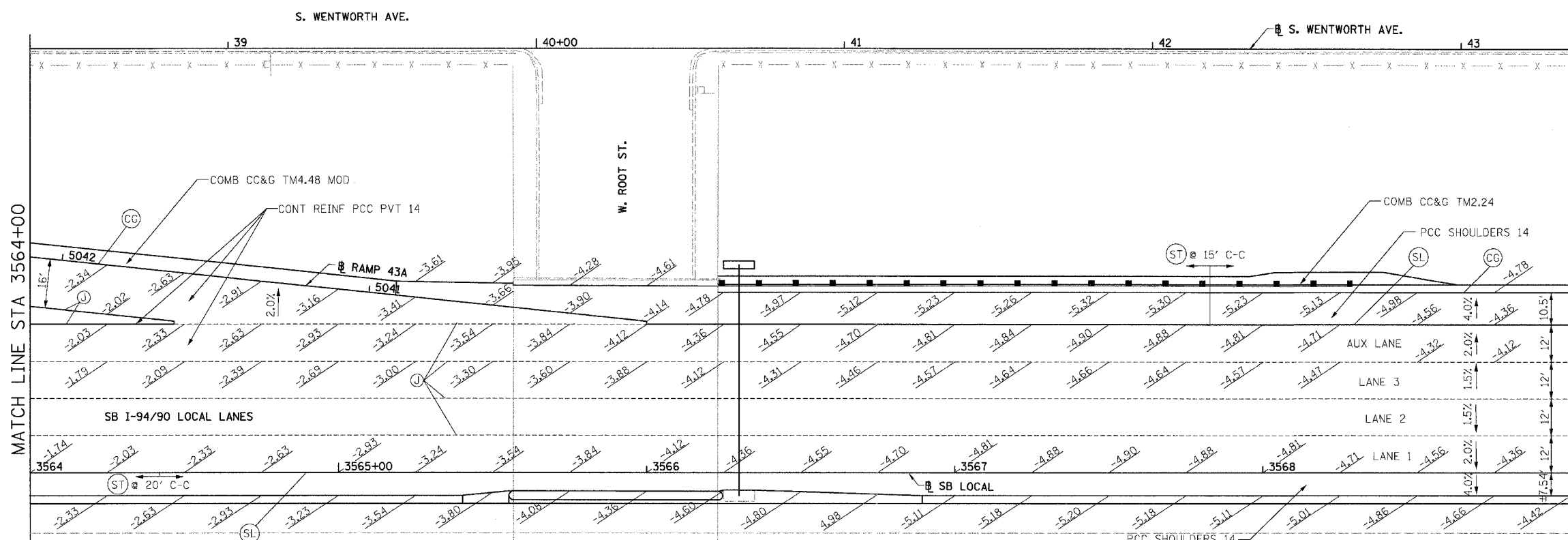
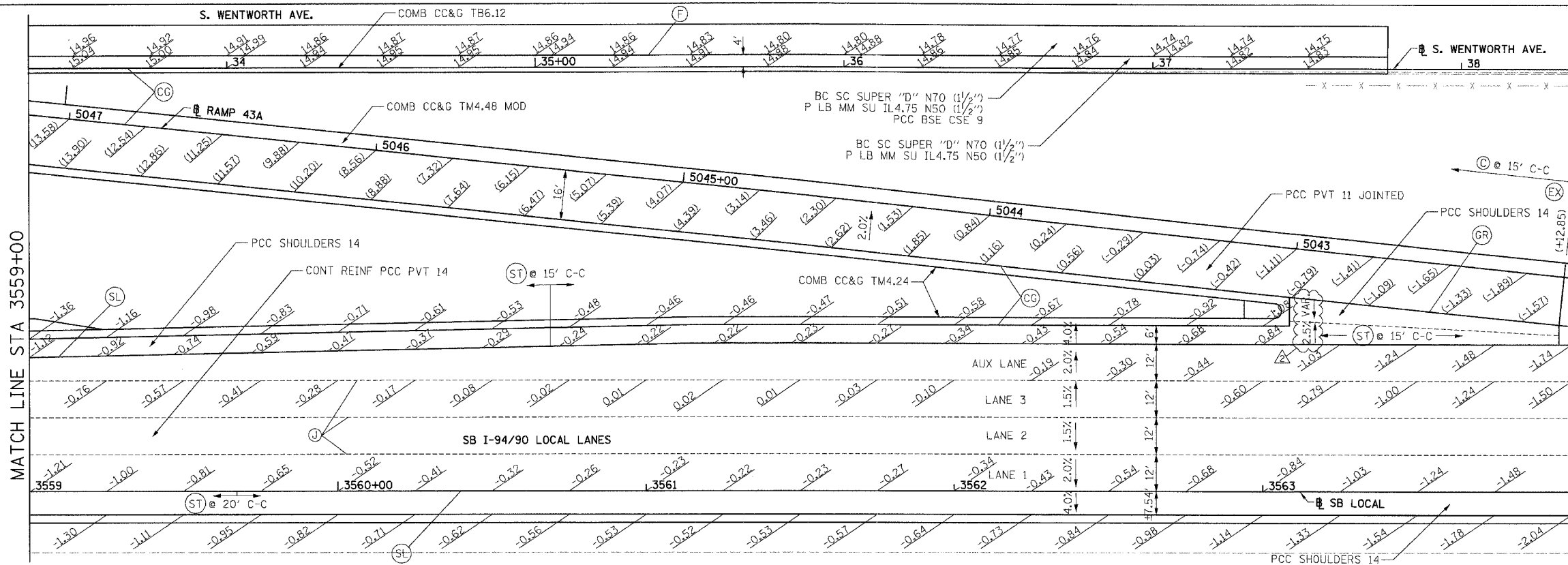
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	219
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

LEGEND:

- (CC) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 606001 WITH DRILLED & GROUTED 24" LONG TIE BARS
- (C) SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
- (EX) TRANSVERSE EXPANSION JOINT PER STANDARD 420001
- (GR) NO BARS, KEYED LONGITUDINAL CONSTRUCTION JOINT WITH ALL KEYS FACING ONE DIRECTION ALONG INSIDE EDGE OF RAMP PAVEMENT AND SURROUNDING SHOULDER GORE
- (F) LONGITUDINAL CONSTRUCTION JOINT WITH DRILLED & GROUTED #8 DEFORMED EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
- (J) LONGITUDINAL SAWED JOINT PER STANDARD 420001
- (J) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 420001 EXCEPT FOR DRILLED & GROUTED 24" LONG #8 TIE BARS. SEAL PER ASTM D 3405
- (SL) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 483001 EXCEPT FOR DRILLED & GROUTED 30" LONG #8 TIE BARS
- (ST) SAWED TRANSVERSE SHOULDER CONTRACTION JOINT PER STANDARD 483001 (MATCH RAMP PAVEMENT JOINTS IN GORE AREAS)
  - SPACED 15' C-C ALONG OUTSIDE SHOULDER
  - SPACED 20' C-C AT ALL OTHER LOCATIONS



SWALE ELEVATIONS		
STA	OFFSET	ELEVATION
3563+09	55.7 LT	-1.10
+25	54.8 LT	-1.20
+50	53.5 LT	-1.38
+75	52.2 LT	-1.58
3563+96	51.1 LT	-1.78

FOR PARTIAL WIDTH FRONTAGE ROAD IMPROVEMENTS, EITHER MATCH TRANSVERSE JOINT SPACING OF EXISTING PAVEMENT WITH NEWLY INSTALLED TRANSVERSE JOINTS OR PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT 15'-0" INTERVALS. PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT THE GREATER OF THESE TWO INTERVALS. SEE DETAIL SHEETS RDT-18A AND RDT-18B FOR PCC BASE COURSE JOINT DETAILS. (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 9")

NOTES:

1. (\*\*\*) ELEVATION STATIONED OFF OF NB I-94/90 LOCAL LANES OR LA SALLE ST.
2. (\*\*\*) ELEVATION STATIONED OFF OF RAMP ALIGNMENT
3. SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION
4. SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
5. PAVEMENT ELEVATIONS ALONG EDGE OF PAVEMENTS, EDGE OF SHOULDERS, GORES, RAMPS AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS. FOR ALL ELEVATIONS, REFER TO THE PROFILES AND TYPICAL SECTIONS
6. SEE ROADWAY DETAIL RDT-8 FOR THE TYING OF THE MEDIAN BARRIER BASE TO THE PCC SHOULDER
7. TRANSITION FROM 4% SHOULDER SLOPE TO THE GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

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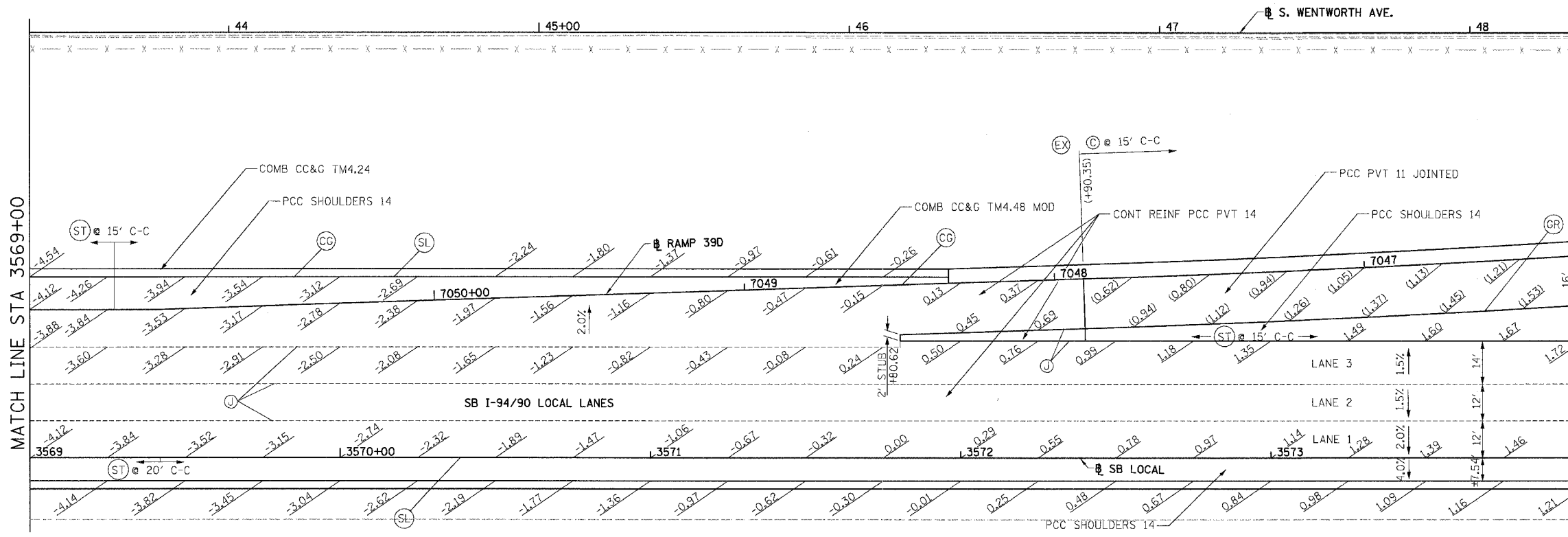
REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
**PAVEMENT JOINTING AND ELEVATION PLANS**  
SCALE: 1"=20'  
DATE: 06/09/06  
DRAWN BY: JDC  
CHECKED BY: RS

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S. WENTWORTH AVE.



MATCH LINE STA 3569+00

MATCH LINE STA 3574+00

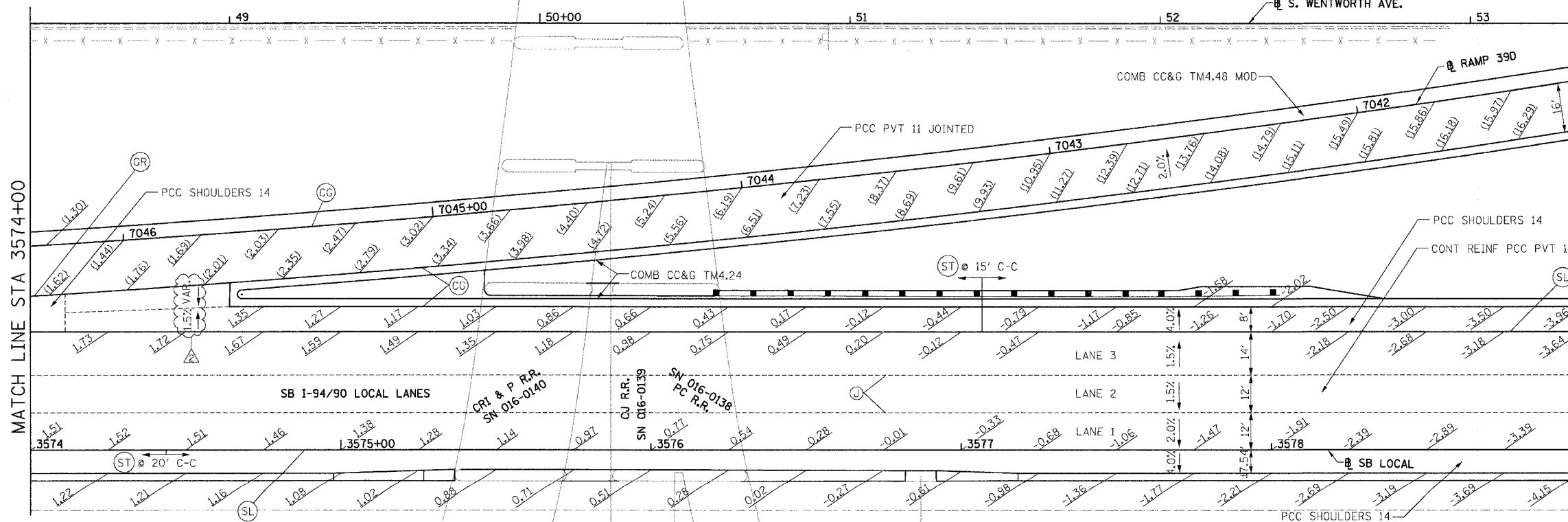
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	220
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62303 • (2021-922 PT2 ETC 2324.6-1P) R-11

LEGEND:

- (CG) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 606001 WITH DRILLED & GROUTED 24" LONG TIE BARS
- (C) SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
- (EX) TRANSVERSE EXPANSION JOINT PER STANDARD 420001
- (GR) NO BARS, KEYED LONGITUDINAL CONSTRUCTION JOINT WITH ALL KEYS FACING ONE DIRECTION ALONG INSIDE EDGE OF RAMP PAVEMENT AND SURROUNDING SHOULDER GORE
- (F) LONGITUDINAL CONSTRUCTION JOINT WITH DRILLED & GROUTED #8 DEFORMED EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
- (J) LONGITUDINAL SAWED JOINT PER STANDARD 420001.
- (SL) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 420001 EXCEPT FOR DRILLED & GROUTED 24" LONG #8 TIE BARS. SEAL PER ASTM D 3405
- (SL) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 483001 EXCEPT FOR DRILLED & GROUTED 30" LONG #8 TIE BARS
- (ST) SAWED TRANSVERSE SHOULDER CONTRACTION JOINT PER STANDARD 483001 (MATCH RAMP PAVEMENT JOINTS IN GORE AREAS)
  - SPACED 15' C-C ALONG OUTSIDE SHOULDER
  - SPACED 20' C-C AT ALL OTHER LOCATIONS

S. WENTWORTH AVE.



MATCH LINE STA 3574+00

MATCH LINE STA 3579+00

SWALE ELEVATIONS		
STA	OFFSET	ELEVATION
3574+11	44.1 LT	1.64
425	44.6 LT	1.63
+50	45.5 LT	1.61
+64	46.0 LT	1.57

FOR PARTIAL WIDTH FRONTAGE ROAD IMPROVEMENTS, EITHER MATCH TRANSVERSE JOINT SPACING OF EXISTING PAVEMENT WITH NEWLY INSTALLED TRANSVERSE JOINTS OR PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT 15'-0" INTERVALS. PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT THE GREATER OF THESE TWO INTERVALS. SEE DETAIL SHEETS RDT-18A AND RDT-18B FOR PCC BASE COURSE JOINT DETAILS. (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 9")

NOTES:

1. (\*\*\*) ELEVATION STATIONED OFF OF NB I-94/90 LOCAL LANES OR LA SALLE ST.
2. (\*\*\*) ELEVATION STATIONED OFF OF RAMP ALIGNMENT
3. SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION
4. SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
5. PAVEMENT ELEVATIONS ALONG EDGE OF PAVEMENTS, EDGE OF SHOULDERS, GORES, RAMPS AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL ELEVATIONS, REFER TO THE PROFILES AND TYPICAL SECTIONS
6. SEE ROADWAY DETAIL RDT-8 FOR THE TYING OF THE MEDIAN BARRIER BASE TO THE PCC SHOULDER
7. TRANSITION FROM 4% SHOULDER SLOPE TO THE GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

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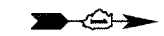
REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
PAVEMENT JOINTING  
AND ELEVATION PLANS  
SCALE: 1"=20'  
DATE: 06/09/06  
DRAWN BY: JDC  
CHECKED BY: RS

1/28/2006 8/14/2006

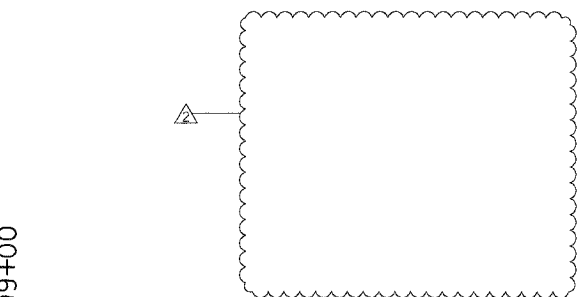
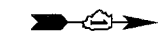
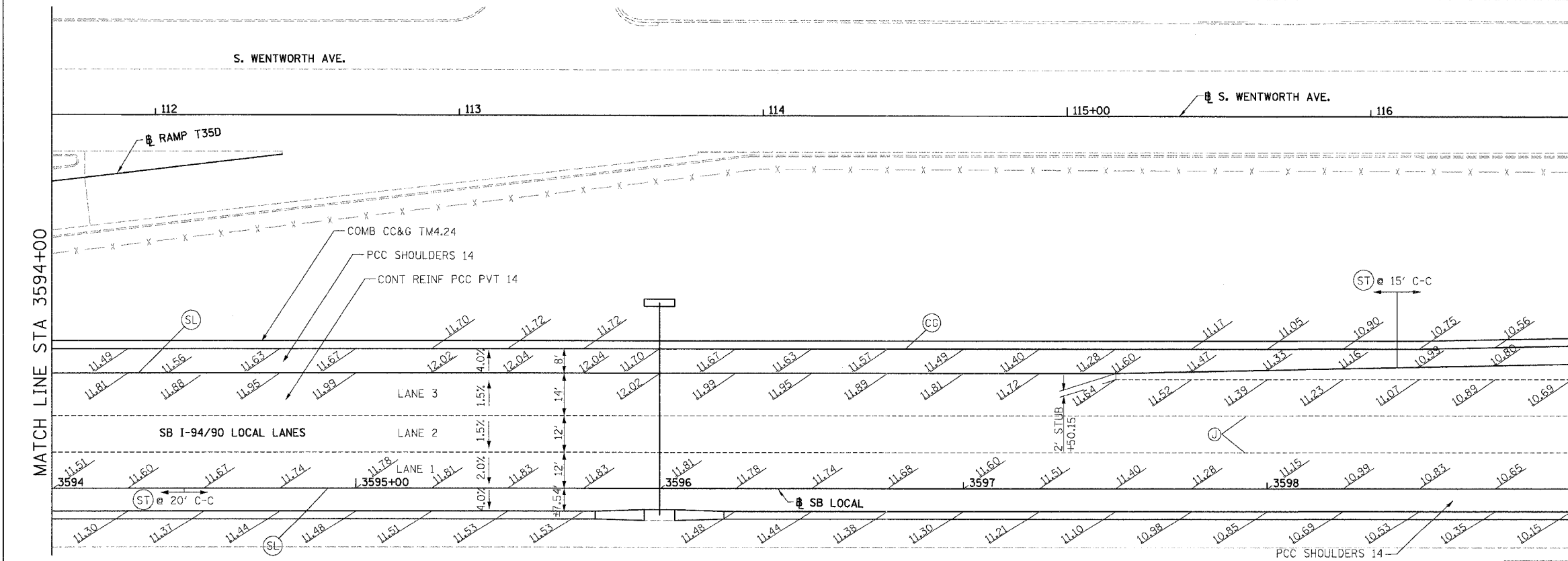
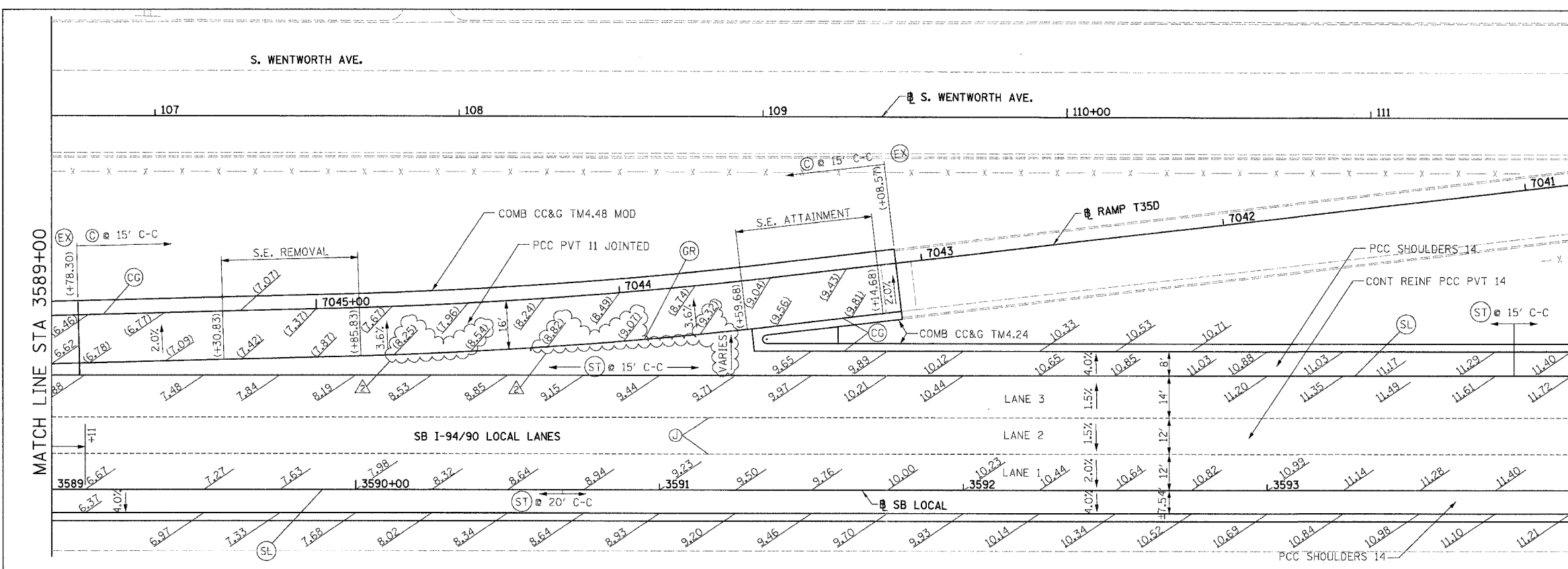
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	222
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62303 • (2021-922 PT2 ETC 2324.6-1P) R-11

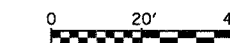


LEGEND:

- (CG) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 606001 WITH DRILLED & GROUTED 24" LONG TIE BARS
- (C) SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
- (EX) TRANSVERSE EXPANSION JOINT PER STANDARD 420001
- (GR) NO BARS, KEYED LONGITUDINAL CONSTRUCTION JOINT WITH ALL KEYS FACING ONE DIRECTION ALONG INSIDE EDGE OF RAMP PAVEMENT AND SURROUNDING SHOULDER GORE
- (F) LONGITUDINAL CONSTRUCTION JOINT WITH DRILLED & GROUTED #8 DEFORMED EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
- (J) LONGITUDINAL SAWED JOINT PER STANDARD 420001
- (L) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 420001 EXCEPT FOR DRILLED & GROUTED 24" LONG #8 TIE BARS. SEAL PER ASTM D 3405
- (SL) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 483001 EXCEPT FOR DRILLED & GROUTED 30" LONG #8 TIE BARS
- (ST) SAWED TRANSVERSE SHOULDER CONTRACTION JOINT PER STANDARD 483001 (MATCH RAMP PAVEMENT JOINTS IN GORE AREAS)
  - SPACED 15' C-C ALONG OUTSIDE SHOULDER
  - SPACED 20' C-C AT ALL OTHER LOCATIONS



FOR PARTIAL WIDTH FRONTAGE ROAD IMPROVEMENTS, EITHER MATCH TRANSVERSE JOINT SPACING OF EXISTING PAVEMENT WITH NEWLY INSTALLED TRANSVERSE JOINTS OR PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT 15'-0" INTERVALS. PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT THE GREATER OF THESE TWO INTERVALS. SEE DETAIL SHEETS RDT-18A AND RDT-18B FOR PCC BASE COURSE JOINT DETAILS. (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 9")



JE-13

NOTES:

1. (\*\*\*) ELEVATION STATIONED OFF OF NB I-94/90 LOCAL LANES OR LA SALLE ST.
2. (\*\*\*) ELEVATION STATIONED OFF OF RAMP ALIGNMENT
3. SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION
4. SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
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6. SEE ROADWAY DETAIL RDT-8 FOR THE TYING OF THE MEDIAN BARRIER BASE TO THE PCC SHOULDER
7. TRANSITION FROM 4% SHOULDER SLOPE TO THE GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

**BOWMAN, BARRETT & ASSOCIATES INC.**  
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REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

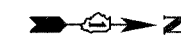
**PAVEMENT JOINTING AND ELEVATION PLANS**

SCALE: 1"=20'  
 DATE: 06/09/06

DRAWN BY: JDC  
 CHECKED BY: RS

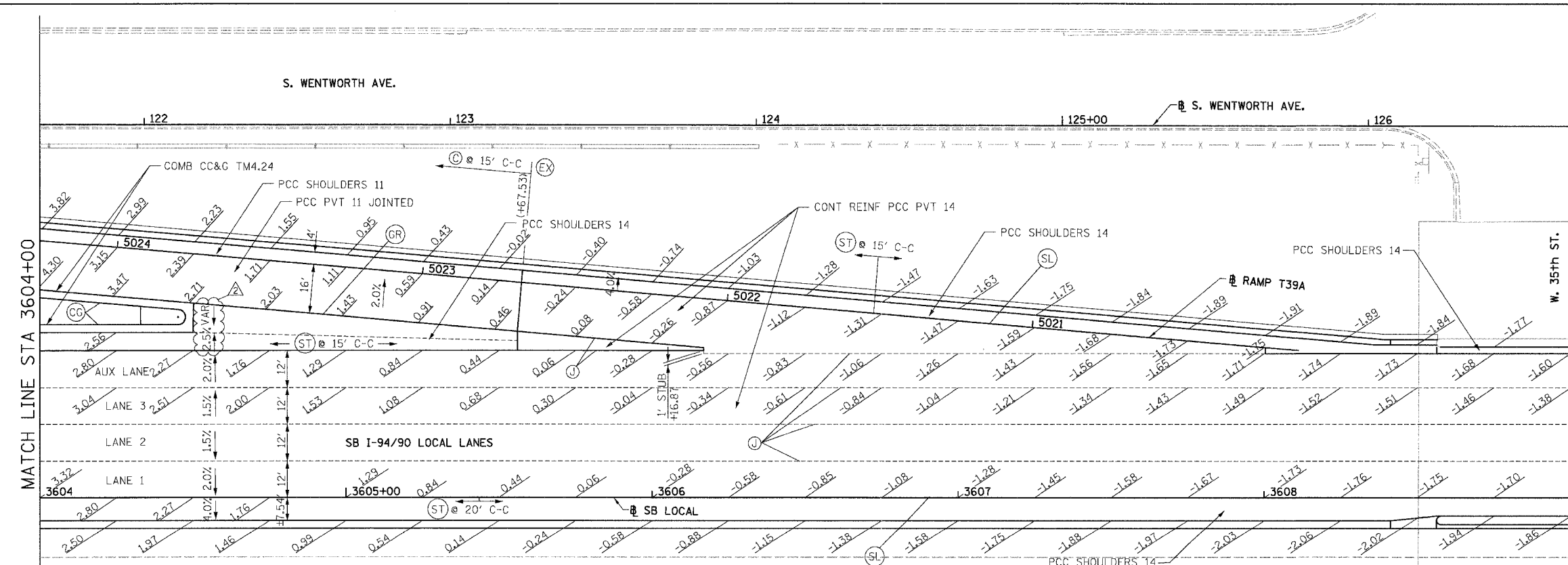
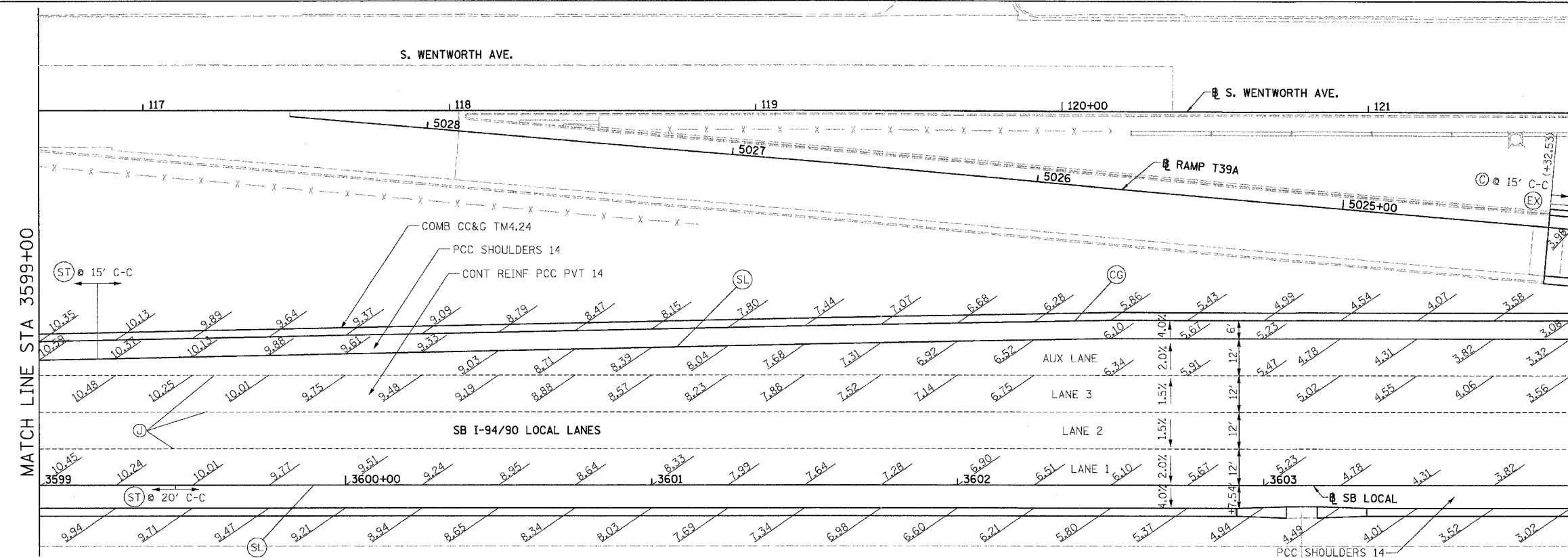
11/22/06 08/14/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	223
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



LEGEND:

- (CG) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 606001 WITH DRILLED & GROUTED 24" LONG TIE BARS
- (C) SAWED TRANSVERSE CONSTRUCTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
- (EX) TRANSVERSE EXPANSION JOINT PER STANDARD 420001
- (GR) NO BARS, KEYED LONGITUDINAL CONSTRUCTION JOINT WITH ALL KEYS FACING ONE DIRECTION ALONG INSIDE EDGE OF RAMP PAVEMENT AND SURROUNDING SHOULDER GORE
- (F) LONGITUDINAL CONSTRUCTION JOINT WITH DRILLED & GROUTED #8 DEFORMED EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
- (J) LONGITUDINAL SAWED JOINT PER STANDARD 420001
- (L) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 420001 EXCEPT FOR DRILLED & GROUTED 24" LONG #8 TIE BARS. SEAL PER ASTM D 3405
- (SL) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 483001 EXCEPT FOR DRILLED & GROUTED 30" LONG #8 TIE BARS
- (ST) SAWED TRANSVERSE SHOULDER CONTRACTION JOINT PER STANDARD 483001 (MATCH RAMP PAVEMENT JOINTS IN GORE AREAS)
  - SPACED 15' C-C ALONG OUTSIDE SHOULDER
  - SPACED 20' C-C AT ALL OTHER LOCATIONS



SWALE ELEVATIONS		
STA	OFFSET	ELEVATION
3604+50	54.0 LT	2.12
+75	53.3 LT	1.63
3605+00	52.6 LT	1.18
+25	51.8 LT	0.74
+50	51.1 LT	0.36
+75	50.9 LT	0.27

FOR PARTIAL WIDTH FRONTAGE ROAD IMPROVEMENTS, EITHER MATCH TRANSVERSE JOINT SPACING OF EXISTING PAVEMENT WITH NEWLY INSTALLED TRANSVERSE JOINTS OR PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT 15'-0" INTERVALS. PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT THE GREATER OF THESE TWO INTERVALS. SEE DETAIL SHEETS RDT-18A AND RDT-18B FOR PCC BASE COURSE JOINT DETAILS. (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 9")

NOTES:

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6. SEE ROADWAY DETAIL RDT-8 FOR THE TYING OF THE MEDIAN BARRIER BASE TO THE PCC SHOULDER
7. TRANSITION FROM 4% SHOULDER SLOPE TO THE GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

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REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

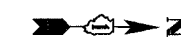
PAVEMENT JOINTING  
AND ELEVATION PLANS

SCALE: 1"=20'  
DATE: 06/09/06

DRAWN BY: JDC  
CHECKED BY: RS

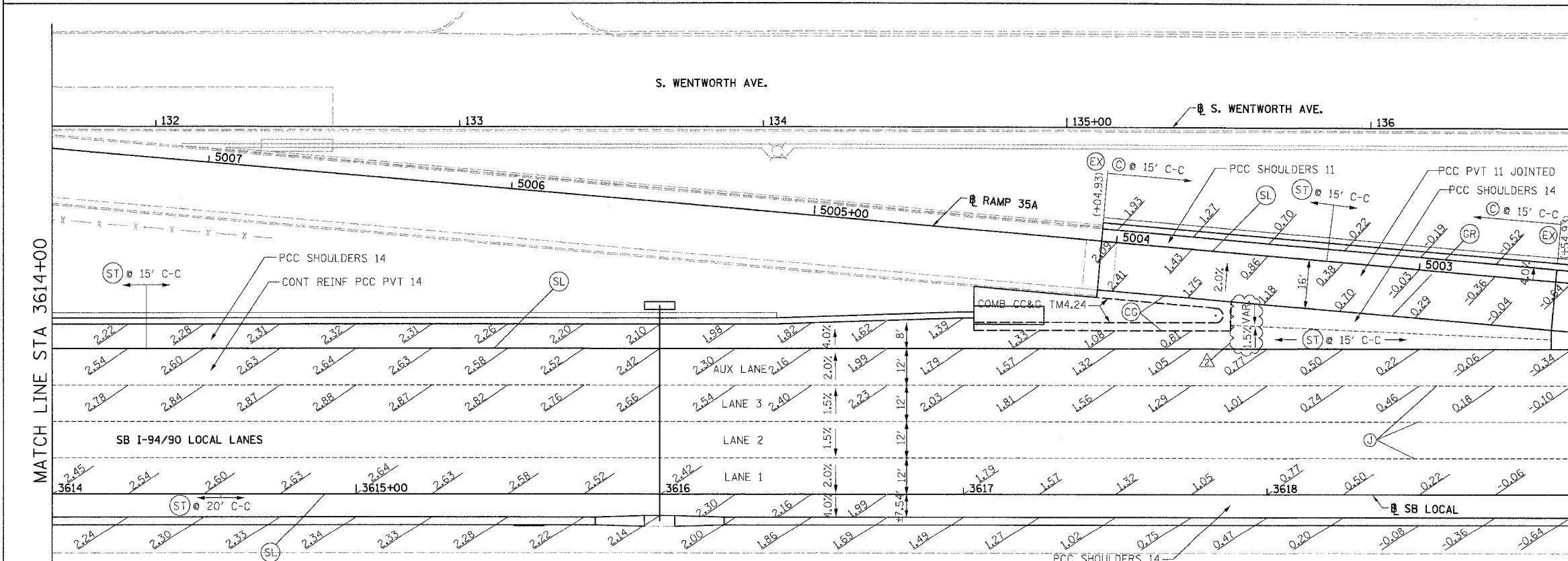
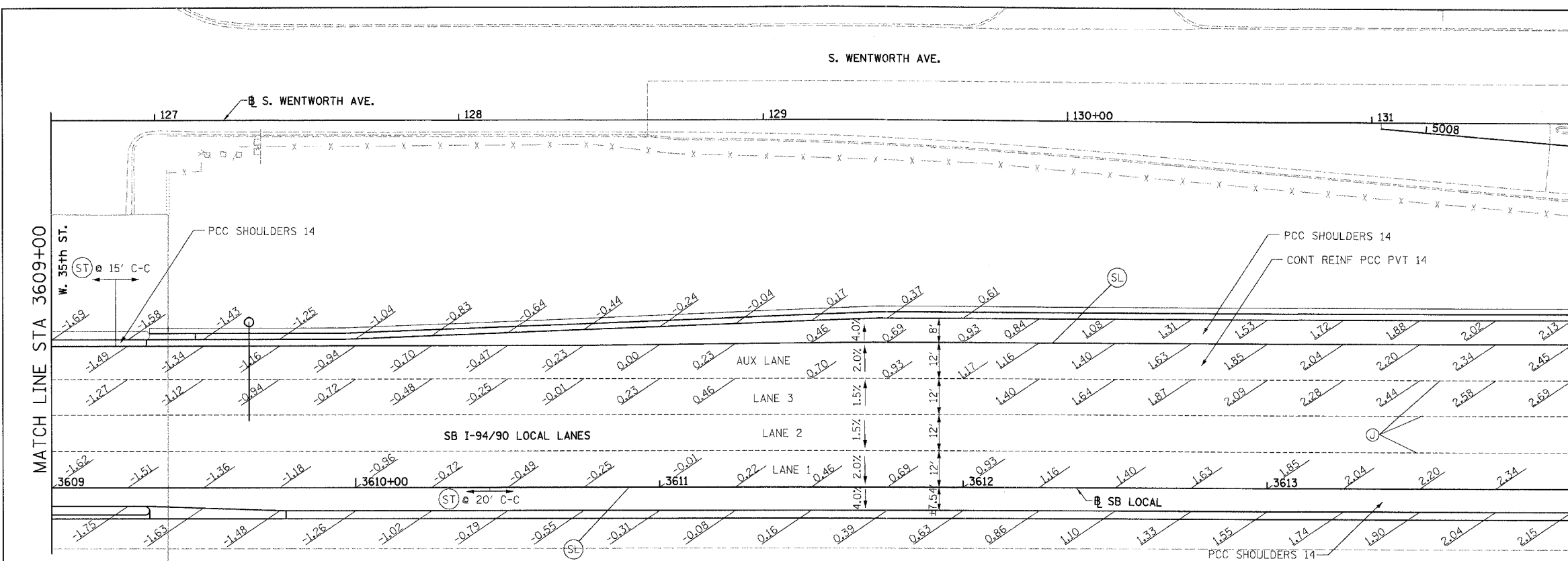
12/27/02 PM 8/4/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	224
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	(2021-922 PT2 ETC 2324.6-1P) R-11			



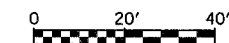
LEGEND:

- (CC) LONGITUDINAL CONSTRUCTION JOINT PER STANDARD 606001 WITH DRILLED & GROUTED 24" LONG TIE BARS
- (C) SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
- (EX) TRANSVERSE EXPANSION JOINT PER STANDARD 420001
- (GR) NO BARS, KEYED LONGITUDINAL CONSTRUCTION JOINT WITH ALL KEYS FACING ONE DIRECTION ALONG INSIDE EDGE OF RAMP PAVEMENT AND SURROUNDING SHOULDER GORE
- (F) LONGITUDINAL CONSTRUCTION JOINT WITH DRILLED & GROUTED #8 DEFORMED EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
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  - SPACED 15' C-C ALONG OUTSIDE SHOULDER
  - SPACED 20' C-C AT ALL OTHER LOCATIONS



SWALE ELEVATIONS		
STA.	OFFSET	ELEVATION
3617+88	54.0 LT	0.82
3618+00	53.6 LT	0.69
+25	52.8 LT	0.43
+50	51.9 LT	0.16
+75	51.1 LT	-0.11
3619+00	50.5 LT	-0.30

FOR PARTIAL WIDTH FRONTAGE ROAD IMPROVEMENTS, EITHER MATCH TRANSVERSE JOINT SPACING OF EXISTING PAVEMENT WITH NEWLY INSTALLED TRANSVERSE JOINTS OR PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT 15'-0" INTERVALS. PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT THE GREATER OF THESE TWO INTERVALS. SEE DETAIL SHEETS RDT-18A AND RDT-18B FOR PCC BASE COURSE JOINT DETAILS. (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 9")



NOTES:

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6. SEE ROADWAY DETAIL RDT-8 FOR THE TYING OF THE MEDIAN BARRIER BASE TO THE PCC SHOULDER
7. TRANSITION FROM 4% SHOULDER SLOPE TO THE GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

BOWMAN, BARRETT & ASSOCIATES INC.  
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Chicago, Illinois  
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REVISIONS	
NAME	DATE
REVISED	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
PAVEMENT JOINTING  
AND ELEVATION PLANS  
SCALE: 1"=20'  
DATE: 06/09/06  
DRAWN BY: JDC  
CHECKED BY: RS

8/14/2006 12:28:00 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	225
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62303 • (2021-922 PT2 ETC 2324.6-1P) R-11

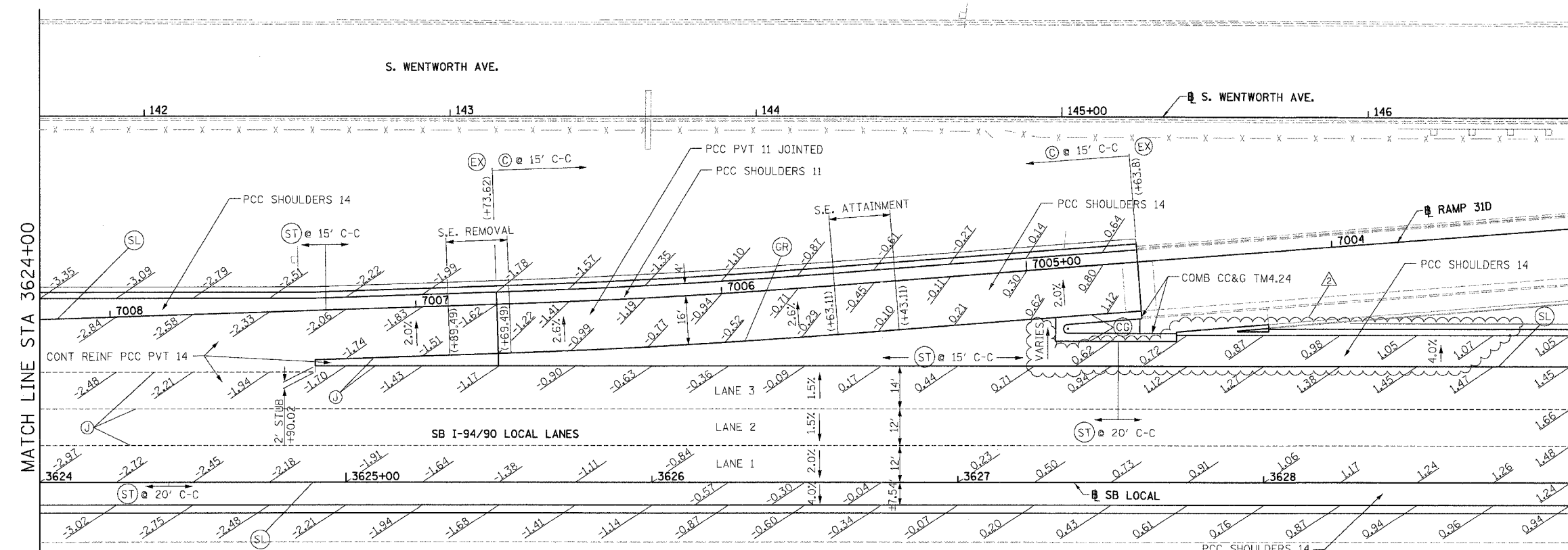
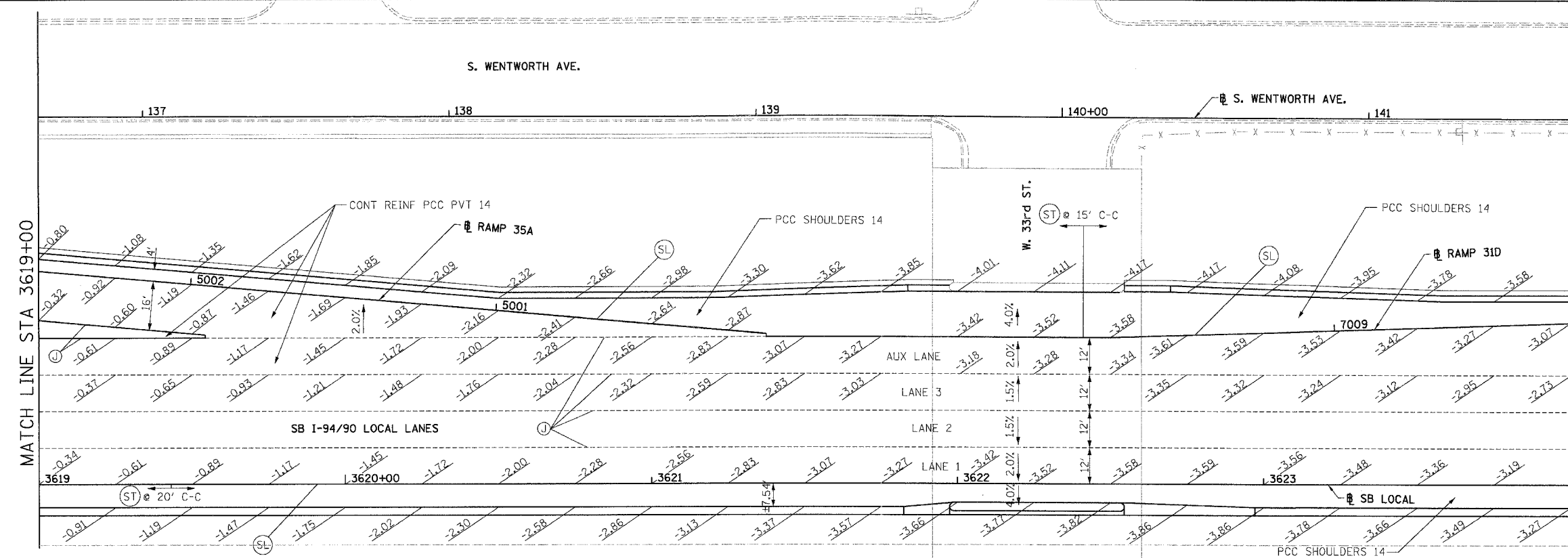


LEGEND:

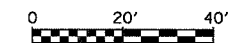
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  - SPACED 15' C-C ALONG OUTSIDE SHOULDER
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MATCH LINE STA 3624+00

MATCH LINE STA 3629+00



FOR PARTIAL WIDTH FRONTAGE ROAD IMPROVEMENTS, EITHER MATCH TRANSVERSE JOINT SPACING OF EXISTING PAVEMENT WITH NEWLY INSTALLED TRANSVERSE JOINTS OR PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT 15'-0" INTERVALS. PLACE NEWLY INSTALLED TRANSVERSE JOINTS AT THE GREATER OF THESE TWO INTERVALS. SEE DETAIL SHEETS RDT-18A AND RDT-18B FOR PCC BASE COURSE JOINT DETAILS. (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 9")



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REVISIONS	
NAME	DATE
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ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**PAVEMENT JOINTING  
AND ELEVATION PLANS**

SCALE: 1"=20'  
DATE: 06/09/06

DRAWN BY: JDC  
CHECKED BY: RS

11-660-0001(11)NS/SHEETS/660-00-00-00.dgn



SHEET	SIGN CALLOUT	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	SIGN PANEL TYPE 3	REMOVE SIGN PANEL ASSEMBLY - TYPE B	REMOVE SIGN PANEL - TYPE 3	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	TELESCOPING STEEL SIGN SUPPORT	METAL POST - TYPE B	BASE FOR TELESCOPING STEEL SIGN SUPPORT	WOOD SIGN SUPPORT	OVERHEAD SIGN STRUCTURE-SPAN, TYPE I-A (4'-0" X 4'-6")	OVERHEAD SIGN STRUCTURE-SPAN, TYPE II-A (4'-6" X 5'-3")	OVERHEAD SIGN STRUCTURE-SPAN, TYPE III-A (5'-0" X 7'-0")	OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE III-C-A (24'-0" X 7'-0")	OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	OVERHEAD SIGN STRUCTURE WALKWAY	CONCRETE FOUNDATIONS	DRILLED SHAFT CONCRETE FOUNDATIONS	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	REMOVE OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	REMOVE GROUND-MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION-GROUND MOUNT	REMOVE CONCRETE FOUNDATION-OVERHEAD	REMOVE AND RE-ERECT EXISTING SIGN
		SQ FT	SQ FT	SQ FT	EACH	SQ FT	POUND	FOOT	FOOT	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD	CU YD	EACH	EACH	EACH	EACH	EACH	EACH
SG-05	R5-1	18									28														
SG-05	W4-2		16								16														
SG-05	R5-1a	12									26														
SG-05	ES05-02				1																				
SG-05	PS05-01			45							36														
SG-05	ES05-07										16														1
SG-05	W13-3		12								15														1
SG-05	ES05-08										32														1
SG-05	PS05-02			402								75					52		6.2					1	
SG-05	ES05-11					99																2	2		
SG-05	ES05-03																								
SG-05	PS05-03	4						8		1															
SG-05	R2-1		12								15														
SG-05	W4-3		16																						
SG-05	ES05-04					107.5																	2	2	
SG-05	ES05-09																								
SG-05	ES05-10					110.5																			
SG-06	ES06-04																								1
SG-06	PS06-1																76.6		10.7						
SG-06	ES06-03										32														1
SG-06	W4-1		16																						
SG-06	W13-3		12								15														
SG-06	ES06-01					107.5																	2	2	
SG-06	PS06-03	4						8		1															
SG-06	PS06-02			187								70					42		5.8						
SG-06	ES06-02					107.5																	2	2	
SG-07	R5-1	18									28														
SG-07	R5-1a	12									28														
SG-07	W4-2		16								36														
SG-07	PS07-01			45																					
SG-07	ES07-02				1																				
SG-07	ES07-07										32														1
SG-07	W13-3		12								15														
SG-07	ES07-08										32														1
SG-07	PS07-02			156.75											26		20.5		7				2	2	
SG-07	ES07-03					150																			1
SG-07	ES07-11																								
SG-07	R5-1	18									28														
SG-07	ES07-04					107.5																			
SG-07	PS07-03			379.5								71					52		6.2				2	2	
SG-07	R5-1a	12									26														
SG-07	PS07-04			45							36														
SG-07	ES07-05				1																				
SG-07	ES07-09										32														1
SG-07	W13-3		12								15														
SG-07	PS07-06	4						8		1															
SG-07	PS07-05			216.75													52.5								
SG-07	ES07-06																								
SG-07	ES07-10										32														1
SG-07	ES08-03										15														1
SG-08	W4-3		16								16														1
SG-08	ES08-04										15														
SG-08	ES08-01																								
SG-08	PS08-01			221													51.25								
SG-08	PS08-02			483																					
SG-09	ES09-01					483																			
SG-09	PS09-01			483																					
SG-09	PS09-02			520																					
SG-10	PS10-01			520																					
SG-10	PS10-02			483																					
SG-12	PS12-01			460																					
TOTALS		179	280	7,098	12	2,033	652	96		10	874	282	339	133	26	104	553	1.4	143	1	1	18	18	5	14

•• REQUIRES 1.52 CU YD, ROCK EXCAVATION QUANTITY INCLUDED IN CIVIL SCHEDULES

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

REVISIONS	
NAME	DATE
REVISED SHEET	6/23/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SIGNING SCHEDULE

SCALE: NTS  
DATE: 06/09/06

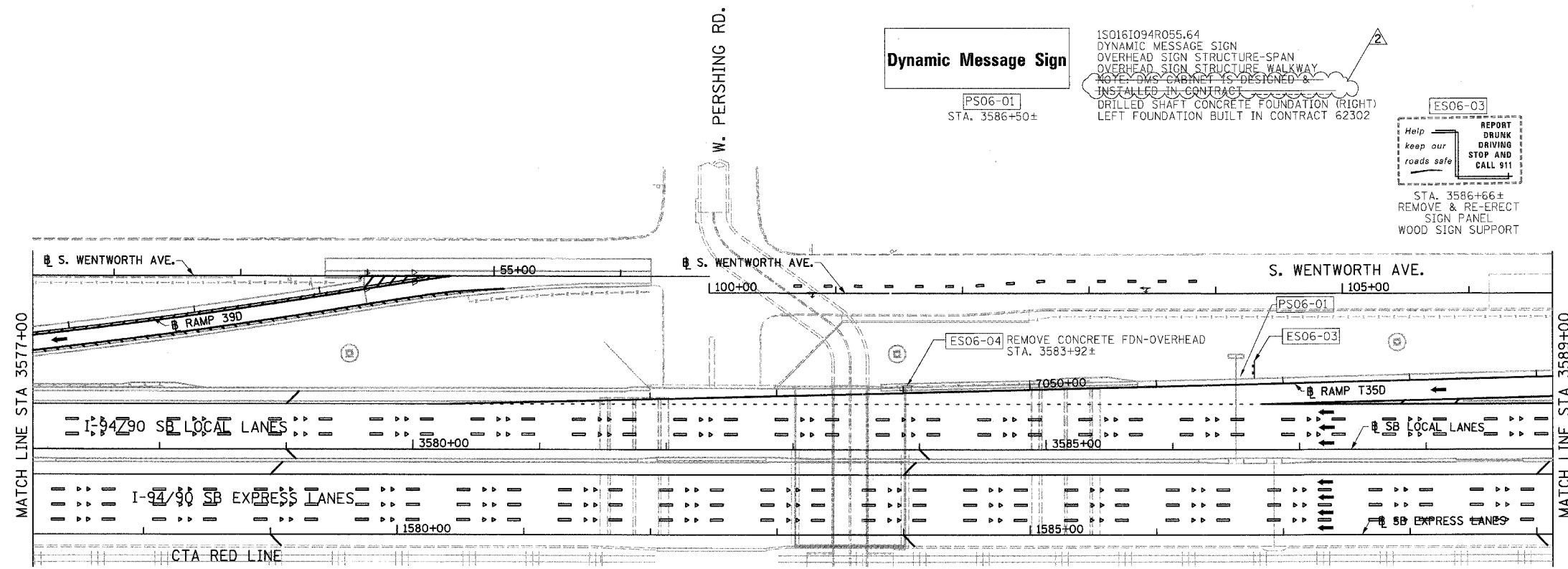
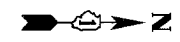
DRAWN BY: RA  
CHECKED BY: RS

12/03/08 PM 8/16/2006





F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	243
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P)	R-11	

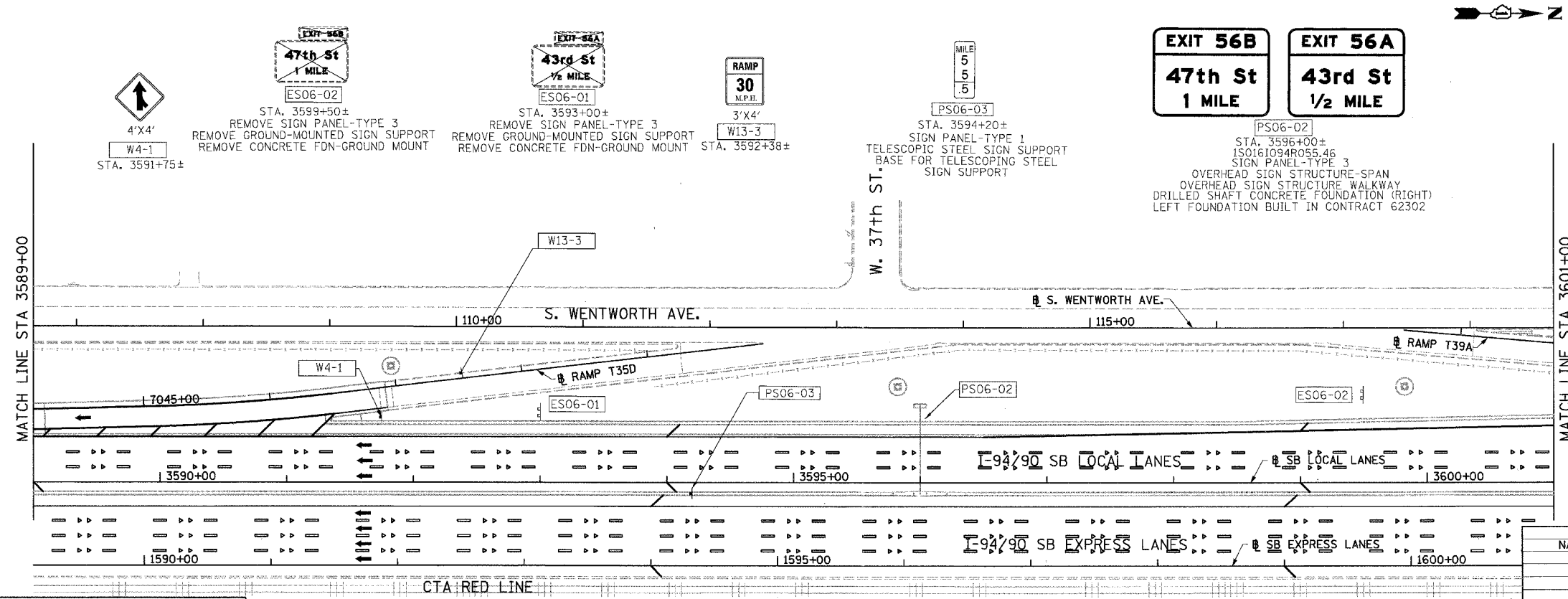


**Dynamic Message Sign**  
 PS06-01  
 STA. 3586+50±

150161094R055.64  
 DYNAMIC MESSAGE SIGN  
 OVERHEAD SIGN STRUCTURE-SPAN  
 OVERHEAD SIGN STRUCTURE WALKWAY  
 NOTE: DMS CABINET IS DESIGNED &  
 INSTALLED IN CONTRACT  
 DRILLED SHAFT CONCRETE FOUNDATION (RIGHT)  
 LEFT FOUNDATION BUILT IN CONTRACT 62302

ES06-03  
 STA. 3586+66±  
 REMOVE & RE-ERECT  
 SIGN PANEL  
 WOOD SIGN SUPPORT

ES06-04  
 REMOVE CONCRETE FDN-OVERHEAD  
 STA. 3583+92±



4'x4'  
 W4-1  
 STA. 3591+75±

EXIT 56B  
 47th St  
 1/2 MILE  
 ES06-02  
 STA. 3599+50±  
 REMOVE SIGN PANEL-TYPE 3  
 REMOVE GROUND-MOUNTED SIGN SUPPORT  
 REMOVE CONCRETE FDN-GROUND MOUNT

EXIT 56A  
 43rd St  
 1/2 MILE  
 ES06-01  
 STA. 3593+00±  
 REMOVE SIGN PANEL-TYPE 3  
 REMOVE GROUND-MOUNTED SIGN SUPPORT  
 REMOVE CONCRETE FDN-GROUND MOUNT

RAMP  
 30  
 M.P.E.  
 3'x4'  
 W13-3  
 STA. 3592+38±

PS06-03  
 STA. 3594+20±  
 SIGN PANEL-TYPE 1  
 TELESCOPIC STEEL SIGN SUPPORT  
 BASE FOR TELESCOPING STEEL  
 SIGN SUPPORT

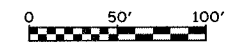
EXIT 56B  
 47th St  
 1 MILE

EXIT 56A  
 43rd St  
 1/2 MILE

PS06-02  
 STA. 3596+00±  
 150161094R055.46  
 SIGN PANEL-TYPE 3  
 OVERHEAD SIGN STRUCTURE-SPAN  
 OVERHEAD SIGN STRUCTURE WALKWAY  
 DRILLED SHAFT CONCRETE FOUNDATION (RIGHT)  
 LEFT FOUNDATION BUILT IN CONTRACT 62302

- LEGEND:
- ESXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
  - GSXX-XX EXISTING POST MOUNTED SIGNS
  - PSXX-XX PROPOSED SIGNS

- NOTES:
1. FOR DETAILS OF THE DYNAMIC MESSAGE SIGN TRUSS SEE OVERHEAD SIGN STRUCTURE DETAIL SHEETS.
  2. THE DYNAMIC MESSAGE SIGN WILL BE PROCURED BY IDOT CONTRACT 62947.
  3. THE DYNAMIC MESSAGE SIGN WILL BE SUPPLIED BY IDOT CONTRACT 62583.
  4. THE DYNAMIC MESSAGE SIGN SHALL BE FASTENED TO THE SIGN TRUSS BY THE CONTRACT 62303 CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THE ERECTION OF THE SIGN TRUSS WITH CONTRACT 62583



REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

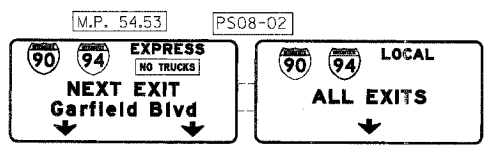
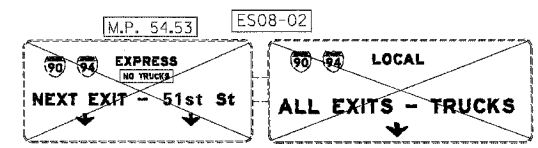
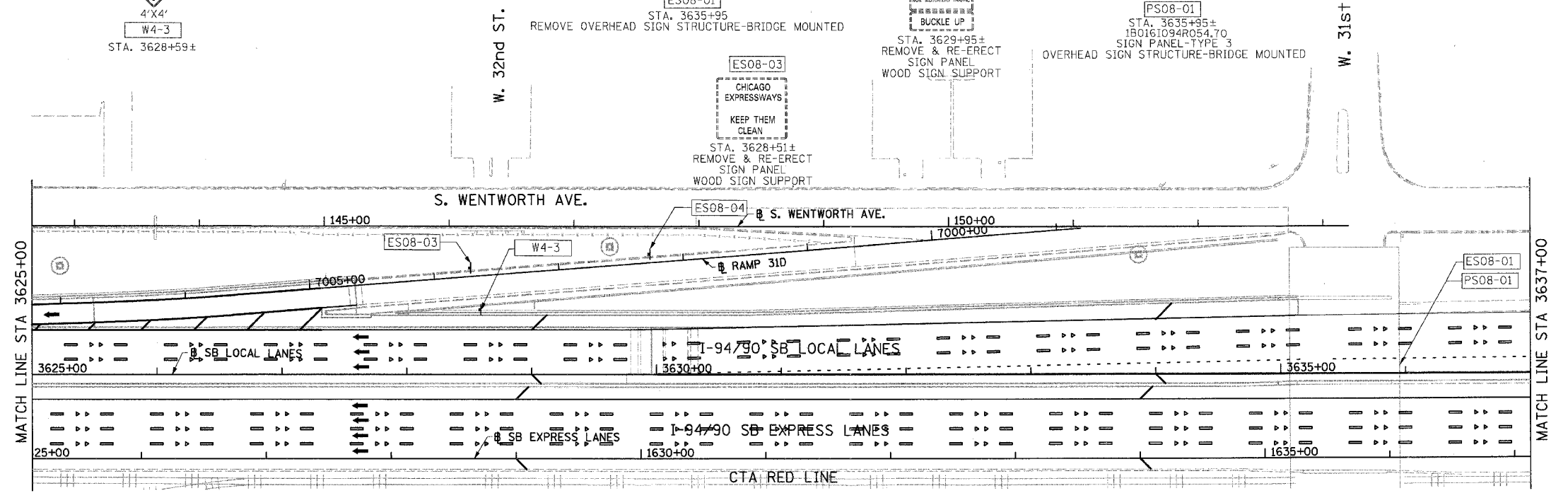
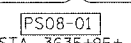
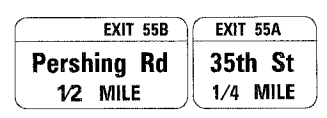
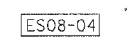
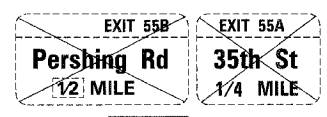
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 PROPOSED SIGNING PLANS

SCALE: 1"=50'  
 DATE: 06/09/06  
 DRAWN BY: RV  
 CHECKED BY: MSA

**K&E** KAM ENGINEERING, INC.  
 CONSULTING ENGINEERS  
 7074 Davis Road, Suite 205  
 Elgin, Illinois 60123-1369

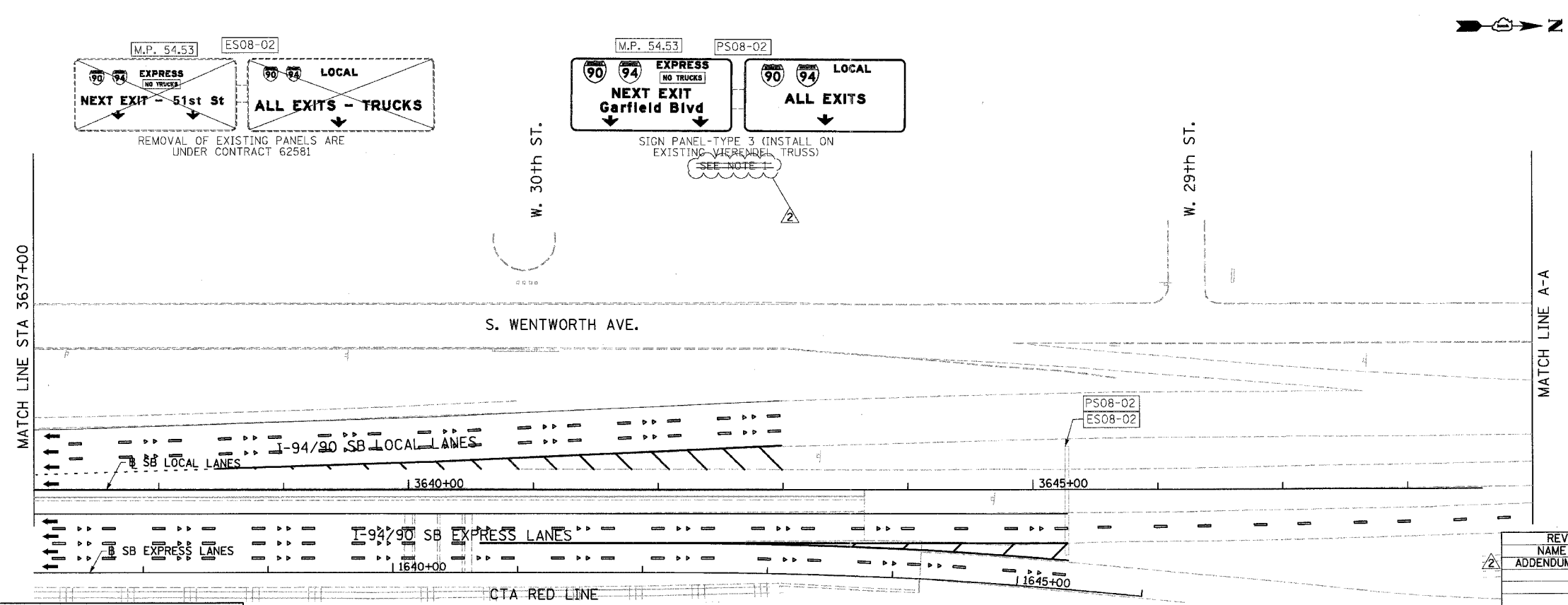
150161094R055.46 SHEET 243 OF 588  
 8/14/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	245
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



LEGEND:

ESXX-XX	EXISTING OVERHEAD OR CANTILEVER SIGNS
GSXX-XX	EXISTING POST MOUNTED SIGNS
PSXX-XX	PROPOSED SIGNS



**K&E** KAM ENGINEERING, INC.  
CONSULTING ENGINEERS  
707A Davis Road, Suite 205  
Eglin, Illinois 60123-1369

REVISIONS	NAME	DATE
ADDENDUM 2		8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
PROPOSED SIGNING PLANS

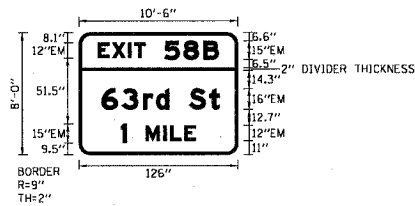
SCALE: 1"=50'  
DATE: 06/09/06

DRAWN BY: RV  
CHECKED BY: MSA

No. 15600 used on this sheet. SHEET 3 OF 3 (SHEET 3 OF 3)

3/24/2006

SIGN DETAIL



SIGN NUMBER	1S0161094R057.4 LT
WIDTH x HEIGHT	10'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

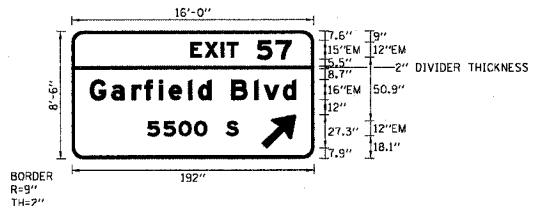
SYMBOL	X	Y	WID	HT

DIMENSIONS ARE IN INCHES, TENTHS

LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)											LENGTH SERIES, SIZE	
E	X	I	T	S	B	B						
15.2	26.5	39.3	44.1	67.9	83	98.9					95.7	EM12,EM15
6	3	r	d	S	+						93.6	EM16/12
18	34.1	51	61.2	71.4	87.4	103.5						
1	M	I	L	E							59.1	EM15,EM12
33.5	52.9	67	72.5	83.7								

SIGN DETAIL



SIGN NUMBER	1S0161094R057.4 RT
WIDTH x HEIGHT	16'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

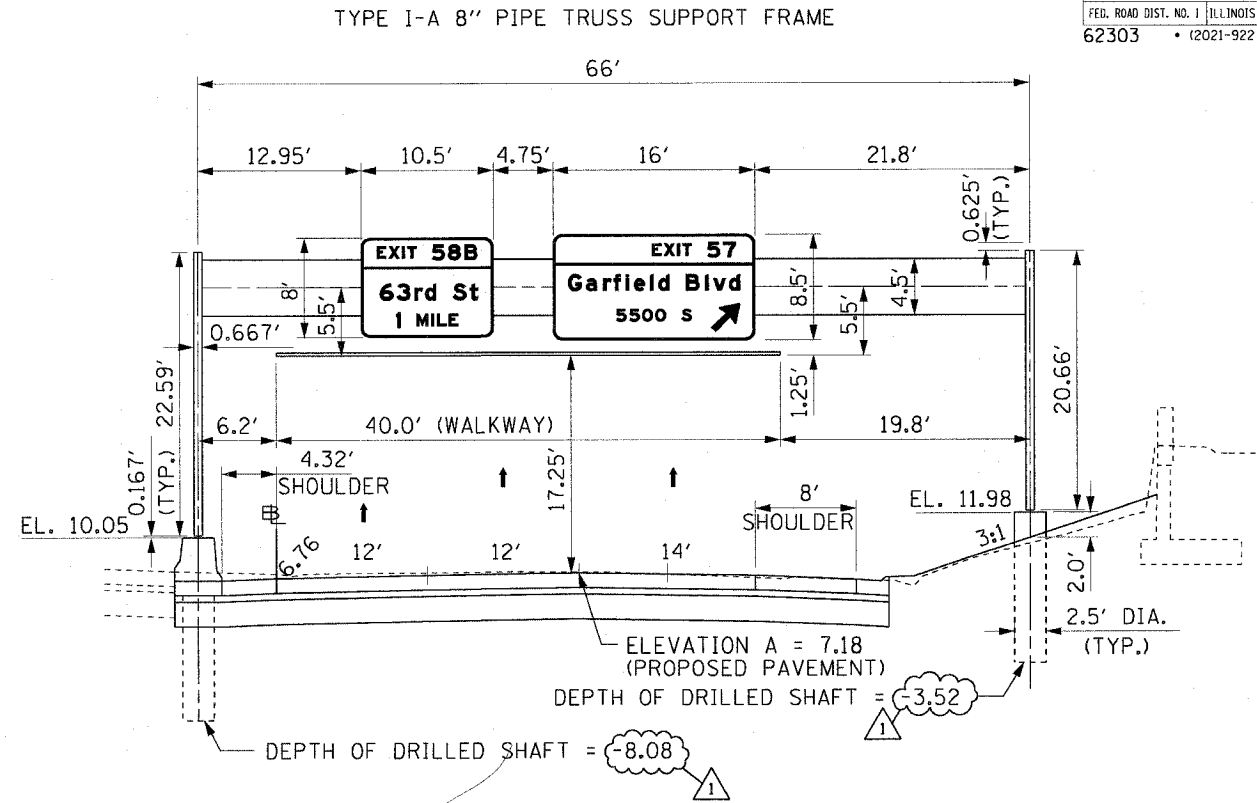
SYMBOL	X	Y	WID	HT
ARMED	150.4	7.9	22.3	35.1

DIMENSIONS ARE IN INCHES, TENTHS

LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)											LENGTH SERIES, SIZE	
E	X	I	T	S	7							
94.2	105.5	118.3	123.1	146.9	162						79.8	EM12,EM15
14.3	31.3	47.6	57.7	69	77	92.3	100.2	110.4	126.4	144.9	152.4	167.5
5	5	0	0	S							72	EM12
60	72.7	84.7	97.1	110.2	122.2							

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	252
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



1S0161094R057.4  
MOUNTING DETAIL  
PROPOSED OVERHEAD SIGN STRUCTURE  
STA 3493+30.00 S.B. 1-90/94  
LOOKING SOUTH

NOTES:

1. PROPOSED PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY.
2. REFER TO ELECTRICAL INFRASTRUCTURE PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT EMBEDDED IN THE OVERHEAD SIGN FOUNDATIONS.

CTE | AECOM

REVISIONS	
NAME	DATE
Addendum 1	7/27/06

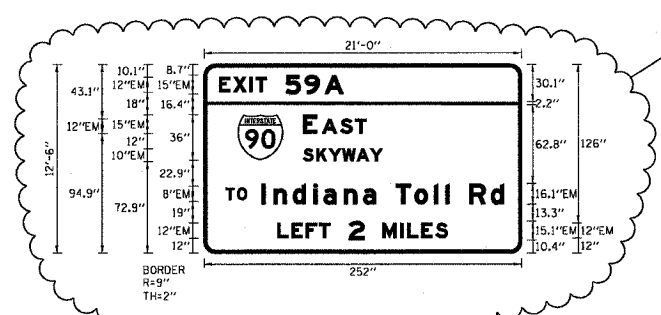
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
  
SIGN PANEL AND PLACEMENT DETAILS  
PROPOSED OVERHEAD SIGN STRUCTURES  
STA. 3493+30.00  
  
SCALE: NONE DRAWN BY: JSS  
DATE: June 9, 2006 CHECKED BY: MJP

SGN-2

17/27/2006 162940 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	253
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	(2021-922 PT2 ETC 2324.6-1P) R-11			

SIGN DETAIL



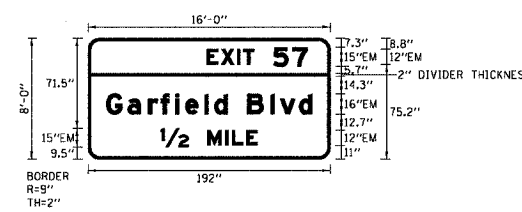
SIGN NUMBER	ISO161094R057.1 LT
WIDTH x HEIGHT	21'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
MI.1	26.7	73.9	36	36

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)										LENGTH SERIES, SIZE				
E	X	I	T	S	9	A				98.7	EM12,EM15			
12	23.3	36.1	41	64.7	79.8	95.7								
E	A	S	T							50.3	EM15,EM12			
78.6	93.6	108.1	120.2											
S	K	Y	W	A	Y					58.5	EM10			
78.6	89.3	98.9	109.7	121	131.8									
T	O									21.3	EM8			
20.5	28.0													
I	n	d	I	a	n	a	T	o	l	192.2	EM16.1/12.1			
45.7	55.3	70.5	86.8	94.8	111.1	126.3	136.4	152.4	167.2					
										182.6	191.8	194.8	210.7	227.7
L	E	F	T	2	M	I	L	E	S	135.4	EM12,EM15.1			
58.1	69.4	80.7	91.2	114.9	141.6	155.8	161.2	172.5	183.8					

SIGN DETAIL

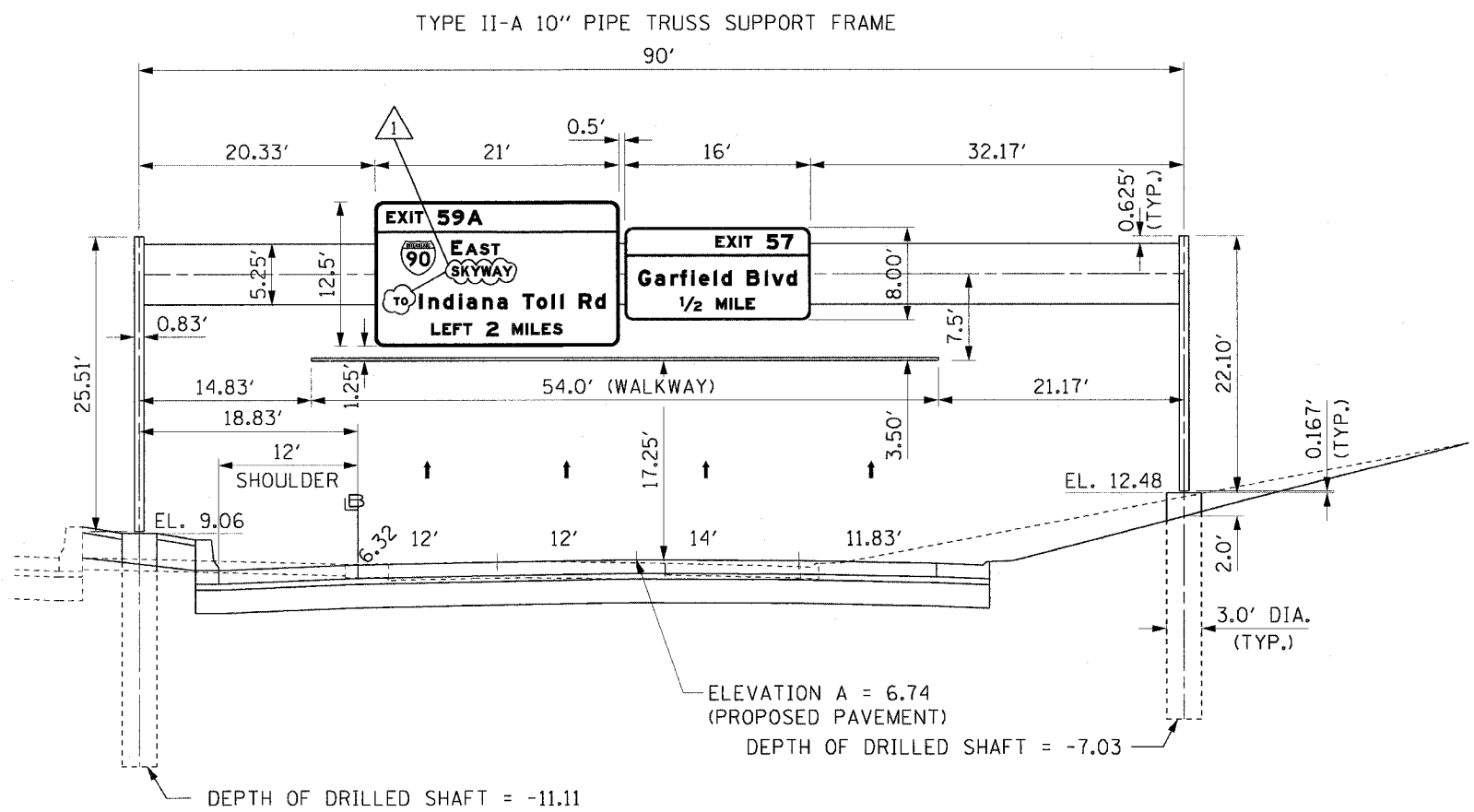


SIGN NUMBER	ISO161094R057.1 RT
WIDTH x HEIGHT	16'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)										LENGTH SERIES, SIZE		
E	X	I	T	S	7					79.8	EM12,EM15	
94.2	105.5	118.3	123.1	146.9	162							
G	o	r	f	i	e	i	d	B	i	163.4	EM16/12	
14.3	31.3	47.6	57.7	69	77	92.3	100.2	110.4	126.4			
										144.9	152.4	167.5
1/2	M	I	L	E						76.6	EM15,EM12	
57.7	94.7	108.8	114.2	125.5								



1SO161094R057.1  
MOUNTING DETAIL  
PROPOSED OVERHEAD SIGN STRUCTURE  
STA 3511+00.00 S.B. I-90/94  
LOOKING SOUTH

NOTES:

1. PROPOSED PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY.
2. REFER TO ELECTRICAL INFRASTRUCTURE PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT EMBEDDED IN THE OVERHEAD SIGN FOUNDATIONS.

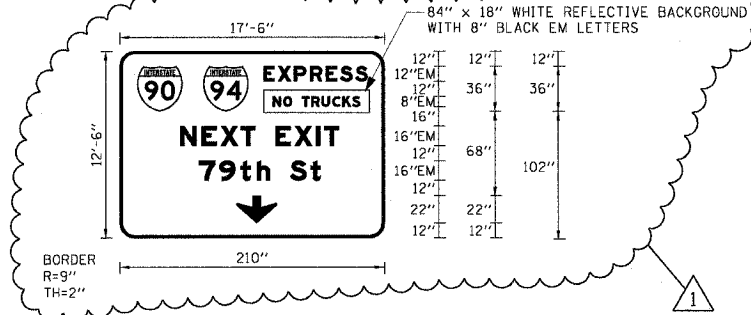
CTE | AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)	
ADDENDUM 1	7/27/06	GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)	
		SIGN PANEL AND PLACEMENT DETAILS	
		PROPOSED OVERHEAD SIGN STRUCTURES	
		STA. 3511+00.00	
		SCALE: NONE	DRAWN BY: JSS
		DATE: June 9, 2006	CHECKED BY: MJP

SGN-3

7/28/2006 8:28:23 AM

**SIGN DETAIL**



SIGN NUMBER	1S0161094R056.8 LT
WIDTH x HEIGHT	17'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

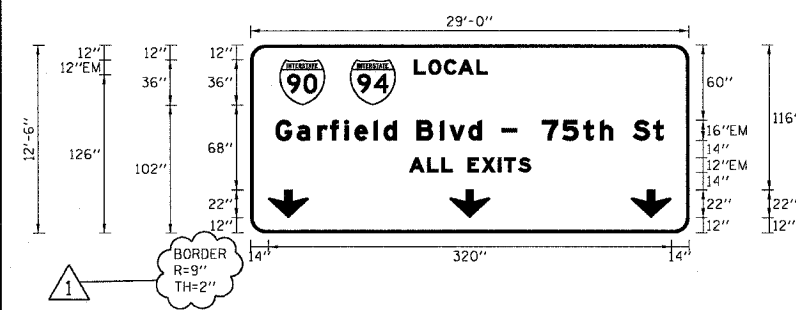
SYMBOL	X	Y	WID	HT
MI.1	13.8	102	36	36
MI.1	66.2	102	36	36
ARDOWN	92.6	12	32	22

DIMENSIONS ARE IN INCHES.TENTHS

LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)										LENGTH SERIES, SIZE	
E	X	P	R	E	S	S				82.5	EM12
114.2	125.5	138.3	150.9	163.6	174.9	186.9					
N	E	X	T	E	X	I	T			126	EM16
48.1	64.9	80	96	107.7	123.7	138.8	155.9	162.4			
7	9	t	h	S	t					96.5	EM16/12
62.8	78.9	95.8	108.9	119.1	135.2	151.3					

**SIGN DETAIL**



SIGN NUMBER	1S0161094R056.8 RT
WIDTH x HEIGHT	29'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

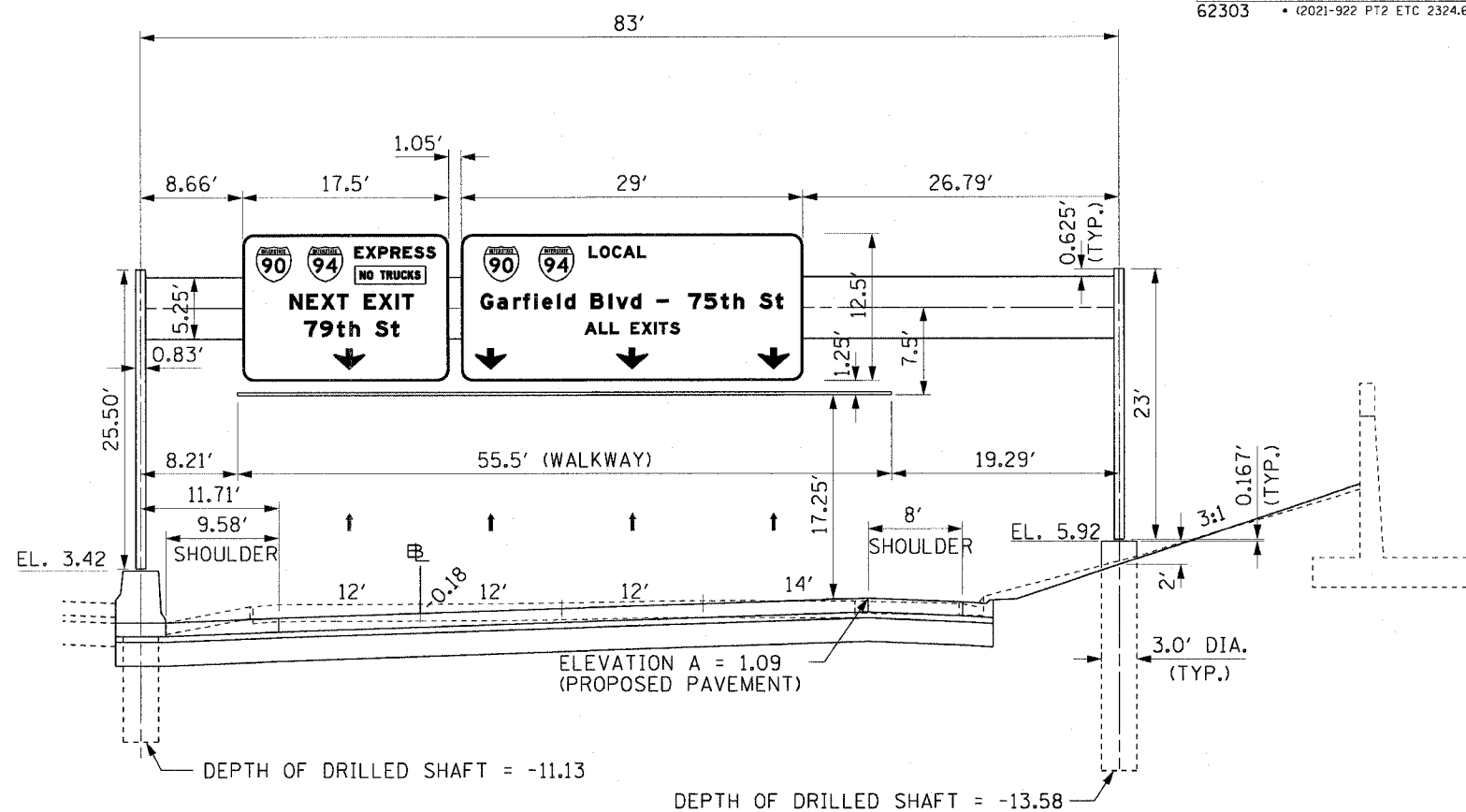
SYMBOL	X	Y	WID	HT
MI.1	23.1	102	36	36
MI.1	79.1	102	36	36
ARDOWN	14	12	32	22
ARDOWN	158	12	32	22
ARDOWN	302	12	32	22

DIMENSIONS ARE IN INCHES.TENTHS

LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)										LENGTH SERIES, SIZE									
L	O	C	A	L						58.2	EM12								
130.1	141.4	153.8	165	179.5															
G	a	r	f	i	e	l	d	B	l	v	d	(CONTINUED NEXT LINE)							
19.9	36.9	53.2	63.3	74.8	82.6	97.9	105.8	116.1	132	150.5	158	173.1	183.3						
									7	5	t	h	S	t	(CONTINUED FROM PREVIOUS)				
									199.3	211.3	231.5	247.6	264.5	277.5	287.8	303.8	319.9	308	EM16/12
A	L	L	E	X	I	T	S											96.6	EM12
125.9	140.4	151.6	160.5	172.5	183.7	196.6	201.4	212.7											

**TYPE II-A 10" PIPE TRUSS SUPPORT FRAME**



1S0161094R056.8  
MOUNTING DETAIL  
PROPOSED OVERHEAD SIGN STRUCTURE  
STA 3524+00.00 S.B. I-90/94  
LOOKING SOUTH

**NOTES:**

1. PROPOSED PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY.
2. REFER TO ELECTRICAL INFRASTRUCTURE PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT EMBEDDED IN THE OVERHEAD SIGN FOUNDATIONS.

REVISIONS	
NAME	DATE
ADDENDUM 1	7/27/06

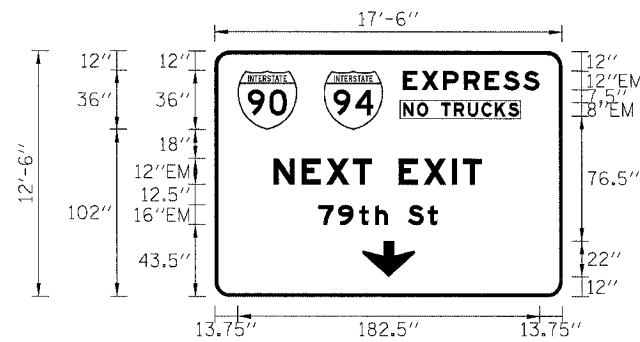
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SIGN PANEL AND PLACEMENT DETAILS  
PROPOSED OVERHEAD SIGN STRUCTURES  
STA. 3524+00.00

SCALE: NONE DRAWN BY: JSS  
DATE: June 9, 2006 CHECKED BY: MJP

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	255
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		*(2021-922 PT2 ETC 2324.6-IP1R-11		

**SIGN DETAIL**  
1:100



SIGN NUMBER	IS016I094R056.67 LT
WIDTH x HGHT.	17'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

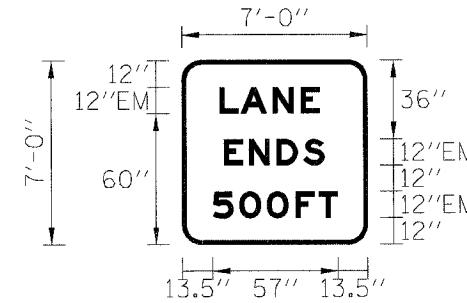
SYMBOL	X	Y	WID	HT
M1_1	13.7	102	36	36
M1_1	65.7	102	36	36
ARDOWN	89	12	32	22

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESSIZE
E	X	P	R	E	S	S					EM12
113.7	125	137.8	150.5	163.1	174.4	186.5				82.5	
N	O		T	R	U	C	K	S			EM8
113.8	122.2	128.8	136.8	144.4	152.8	161.2	169.3	177.4		70.2	
N	E	X	T		E	X	I	T			EM12
85.4	52.3	67.4	83.4	95.1	111.1	126.1	143.2	149.7		126	
7	9	t	h		S	t					EM16/12
62.3	74.3	87	96.8	104.5	116.5	128.6				72.4	

**SIGN DETAIL**  
1:100



SIGN NUMBER	IS016I094R056.47CN
WIDTH x HGHT.	7'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

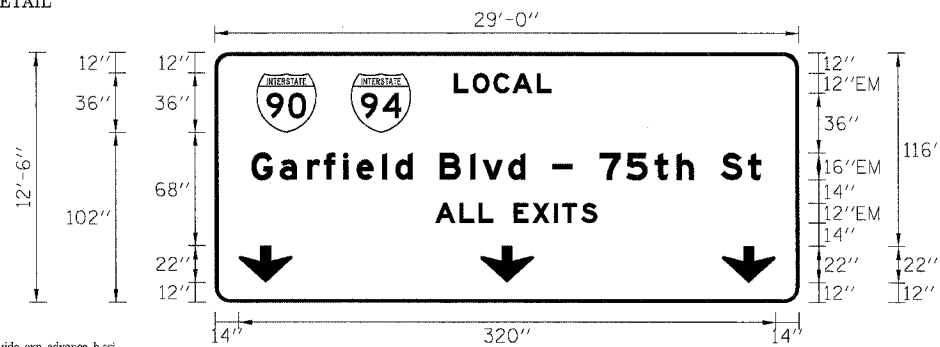
SYMBOL	X	Y	WID	HT

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESSIZE
L	A	N	E								EM12
17	26.6	41.1	53.7							45.6	
E	N	D	S								EM12
18.9	30.2	42.8	54.8							45.8	
5	0	0	F	T							EM12
13.7	25.8	38.2	51.3	61.7						56.8	

**SIGN DETAIL**  
1:100



SIGN NUMBER	IS016I094R056.67 RT
WIDTH x HGHT.	29'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

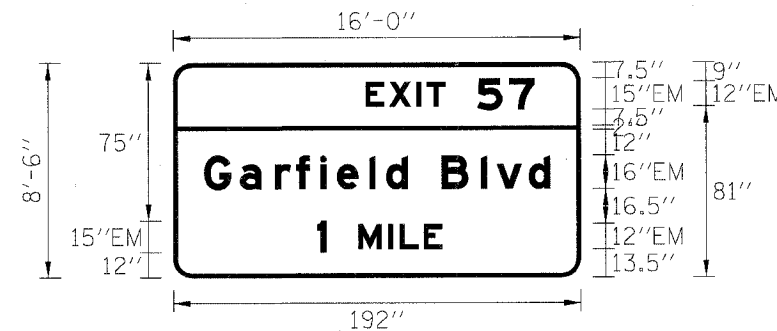
SYMBOL	X	Y	WID	HT
M1_1	24.6	102	36	36
M1_1	81	102	36	36
ARDOWN	14	12	32	22
ARDOWN	168	12	32	22
ARDOWN	302	12	32	22

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESSIZE													
L	O	C	A	L							EM12													
142.4	153.6	166.1	177.3	191.8						58.2														
G	a	r	f	i	e	l	B	l	v	d	-	7	6	t	h	S	t		EM16/12					
21.5	38.6	54.9	64.9	76.3	84.3	99.0	117.7	133.7	152.2	159.7	174.7	185	201	213	229	245	262	275	268.3	301.3	317.4	308.9		
A	L	L		E	X	I	S																	EM12
131.2	145.7	167	166.8	177.8	189.1	201.9	206.3	218															96.6	

**SIGN DETAIL**  
1:100



SIGN NUMBER	IS016I094R056.47 CN
WIDTH x HGHT.	16'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESSIZE			
E	X	I	T	5	7						EM12,EM15			
90.6	101.9	114.7	119.6	143.3	158.4					79.8				
G	a	r	f	i	e	l	B	l	v	d		EM16/12		
14.3	31.3	47.6	57.7	69	77.1	92.3	100.2	110.5	126.5	144.9	152.4	167.5	163.4	
1	M	I	L	E										EM15,EM12
67.7	87.1	101.2	106.7	118									59.1	

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

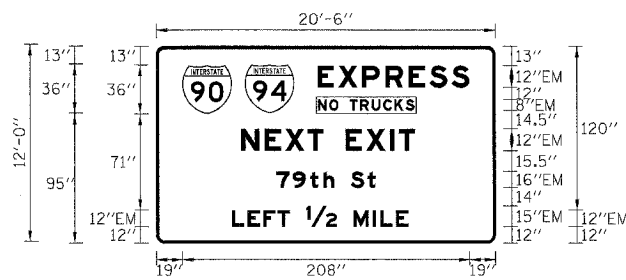
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
SIGN PANEL DETAILS

SCALE: 1"=50'  
DATE: 06/09/06  
DRAWN BY: RV  
CHECKED BY: AS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	256
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
62303		*(2021-922 PT2 ETC 2324.6-1P1R-11		

**SIGN DETAIL**

1:100



SIGN NUMBER	IS0161094R056.47 LT
WIDTH x HGHT.	20'-6" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	19	95	36	36
M1_1	64.2	95	36	36

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

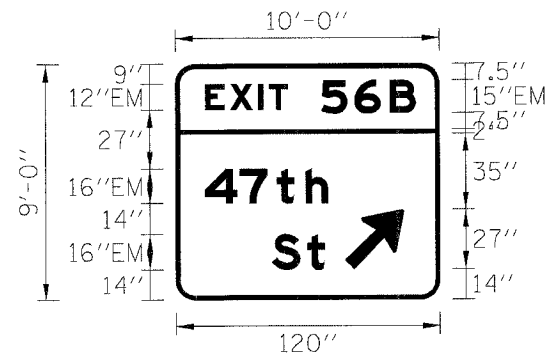
Letter locations are panel edge to lower left corner

**LETTER POSITIONS (X)**

LETTER POSITIONS (X)										LENGTH	SERIESIZE
E	X	P	R	E	S	S					EM12
117.1	132.2	149.3	166.1	183	198	214.1				110.1	
N	O		T	R	U	C	K	S			EM8
117.1	125.6	132.2	140.2	147.7	156.1	164.6	172.6	180.8		70.2	
N	E	X	T		E	X	I	T			EM12
61.6	78.4	93.5	109.5	121.2	137.2	152.3	169.4	175.8		126	
7	9	t	h		S	t					EM1612
86.6	98.7	111.4	121.2	128.8	140.8	152.9				72.4	
L	E	F	T	I	M	I	L	E			EM12/EM15
54.7	66	77.3	87.8	108.5	142.5	152.1	166.6	179.2		145.6	

**SIGN DETAIL**

1:100



SIGN NUMBER	IS0161094R056.47 RT
WIDTH x HGHT.	10'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT
ARMED	76.8	14	22.3	35.1

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

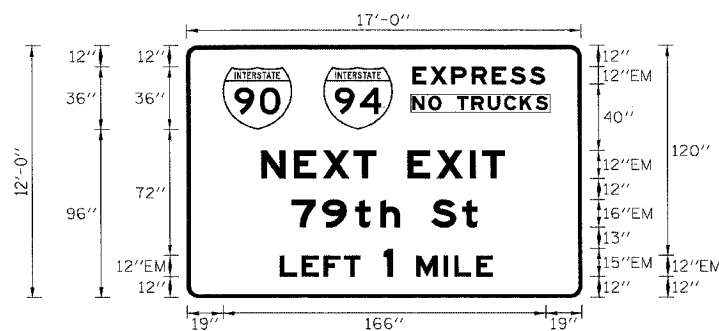
Letter locations are panel edge to lower left corner

**LETTER POSITIONS (X)**

LETTER POSITIONS (X)										LENGTH	SERIESIZE
E	X	I	T	5	6	B					EM12,EM15
13.5	24.8	37.6	42.4	66.3	81.4	97.4				96	
4	7	t	h								EM1612
13.1	28.9	45.9	58.9	69.2						57.2	
S	t										EM1612
48.5	59.6									24.2	

**SIGN DETAIL**

1:100



SIGN NUMBER	IS0161094R056.02 LT
WIDTH x HGHT.	17'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	19	96	36	36
M1_1	70.6	96	36	36

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

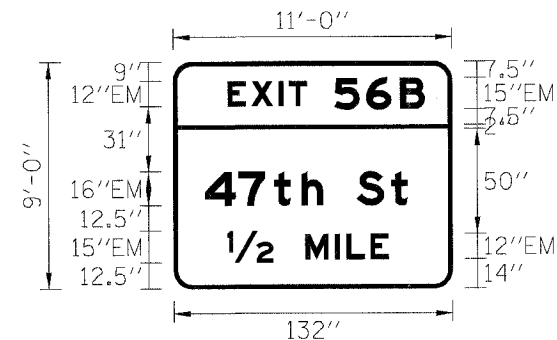
Letter locations are panel edge to lower left corner

**LETTER POSITIONS (X)**

LETTER POSITIONS (X)										LENGTH	SERIESIZE
E	X	P	R	E	S	S					EM12
116.6	126	136.7	147.2	157.8	167.2	177.2				68.8	
N	O		T	R	U	C	K	S			EM8
116.6	125.1	131.7	139.7	147.2	155.6	164.1	172.1	180.2		70.2	
N	E	X	T		E	X	I	T			EM12
38.3	55.2	70.3	86.3	98	114	129.1	146.1	152.6		126	
7	9	t	h		S	t					EM1612
53.8	69.9	86.8	99.9	110.1	126.1	142.3				96.5	
L	E	F	T	I	M	I	L	E			EM12,EM15
47.9	59.2	70.5	80.9	101.7	118.5	132.6	138	149.3		110.2	

**SIGN DETAIL**

1:100



SIGN NUMBER	IS0161094R056.02 CN
WIDTH x HGHT.	11'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

**LETTER POSITIONS (X)**

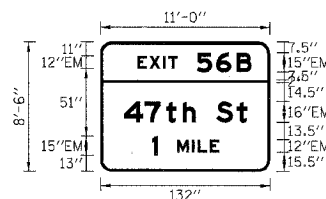
LETTER POSITIONS (X)										LENGTH	SERIESIZE
E	X	I	T	5	6	B					EM12,EM15
25.7	36.9	49.8	54.6	76.3	91.4	107.3				93.6	
4	7	t	h		S	t					EM1612
14.7	30.5	47.4	60.5	70.8	86.7	102.9				96.3	
12	M	I	L	E							EM15,EM12
25.2	62.2	76.3	81.7	93						76.6	

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

SGN-06

8/14/2006 4:03:34 PM

**SIGN DETAIL**  
1:75



Dimensions are in inches tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	1S0161094R055.46 LT
WIDTH x HGHT.	11'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT

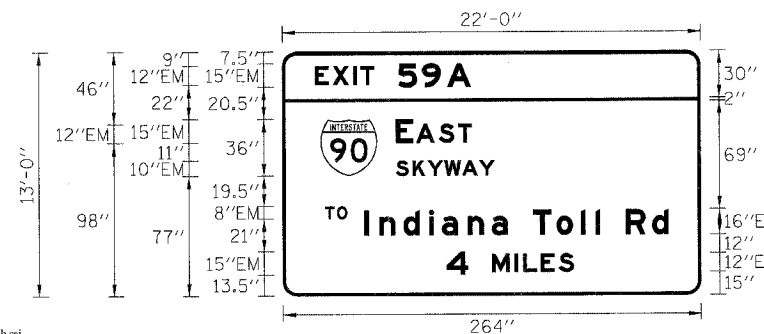
LETTER POSITIONS (X)							LENGTH	SERIES/SIZE
E	X	I	T	5	6	B		EM12,EM15
28.6	38	48.7	52.7	75.1	90.2	106	89.4	
4	7	t	h		S	t		EM16/12
18.2	34	51	64	74.3	90.3	106.4	96.3	
1	M	I	L	E				EM15,EM12
40.1	59.5	71.3	75.8	85.2			52.5	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	257
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62303	*(2021-922 PT2 ETC 2324.6-1P)R-11			

SIGN NUMBER	1S0161094R055.46 LT
WIDTH x HGHT.	22'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
MI_1	23.9	77	36	35

**SIGN DETAIL**  
1:100

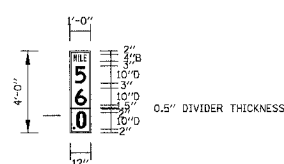


Panel Style: guide\_exp\_advance\_base  
Dimensions are in inches tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE
E	X	I	T	5	9	A								EM12,EM15
20.4	31.7	44.5	49.4	73.2	88.3	104.1								88.7
E	A	S	T											EM15,EM12
71.4	84.3	98.7	110.3											48.2
S	K	Y	W	A	Y									EM10
71.4	82	91.5	102.1	113.3	124									62.5
T	O													EM15
26.6	34.1													14.2
I	n	d	i	a	n	a	T	o	l	i	R	d		EM16/12
61.2	60.8	76.1	92.4	100.4	116.7	131.9	142	158	172.8	188.2	197.4	200.3	216.3	192.2
4	M	I	L	E	S									EM15,EM12
103.2	132	146.1	151.5	162.8	174.1									80.7

**SIGN DETAIL**  
1:100



Panel Style: guide\_exp\_advance\_base  
Dimensions are in inches tenths

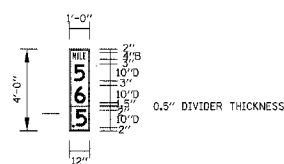
Letter locations are panel edge to lower left corner

SIGN NUMBER	PS84-02
WIDTH x HGHT.	11'-0" x 8'-6"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Banner
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)							LENGTH	SERIES/SIZE
M	I	L	E					B4
21	48	6	81				7.5	
5							8.8	D10
2.8							8.8	
5							8.8	D10
2.8							8.8	
1.5							1.5	D10
5							8.8	D10
2.8							8.8	

**SIGN DETAIL**  
1:100



Panel Style: guide\_exp\_advance\_base  
Dimensions are in inches tenths

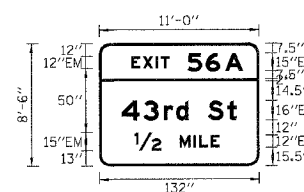
Letter locations are panel edge to lower left corner

SIGN NUMBER	PS84-02
WIDTH x HGHT.	11'-0" x 8'-6"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Banner
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)							LENGTH	SERIES/SIZE
M	I	L	E					B4
21	48	6	81				7.5	
4							8.8	D10
2.8							8.8	
5							8.8	D10
2.8							8.8	
1.5							1.5	D10
5							8.8	D10
2.8							8.8	

**SIGN DETAIL**  
1:75



Dimensions are in inches tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	1S0161094R055.46 RT
WIDTH x HGHT.	11'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)							LENGTH	SERIES/SIZE
E	X	I	T	5	6	A		EM12,EM15
26.5	35.9	46.6	50.6	73	88	103.9	92.4	
4	3	r	d		S	t		EM16/12
18.2	36.2	53.2	63.3	73.6	89.6	105.7	95.6	
12	M	I	L	E				EM15,EM12
29	66	77.8	82.3	91.7			70	

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

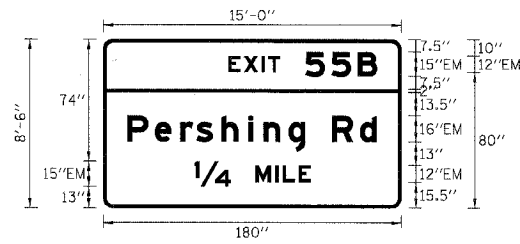
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
SIGN PANEL DETAILS

SCALE: 1"=50'  
DATE: 06/09/06  
DRAWN BY: RV  
CHECKED BY: AS

4/12/06 8/17/2006



**SIGN DETAIL**  
1:100



SIGN NUMBER	1B0161094R054.97 LT
WIDTH x HGHT.	15'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

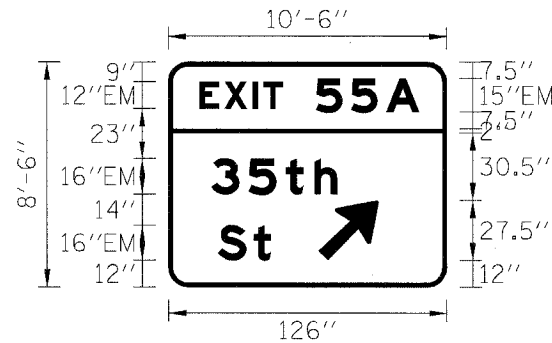
SYMBOL	X	Y	WID	HT

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIESSIZE	
E	X	I	T	5	5	B									EM12,EM15
75.5	84.9	95.6	99.6	122	137.8	153.6									90.2
P	e	r	s	h	i	n	g		R	d					EM1612
14.4	31	46.2	56.1	71.1	87.4	96.7	111.8	122	138	155					150.8
1/4	M	I	L	E											EM15,EM12
54.8	91.9	103.8	108.4	117.9											70.5

**SIGN DETAIL**  
1:100



SIGN NUMBER	1B0161094R054.97 RT
WIDTH x HGHT.	10'-6" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

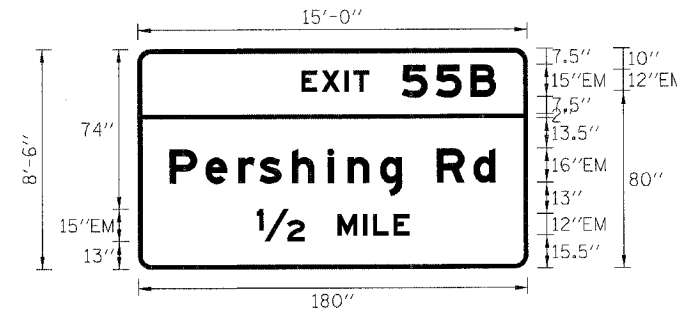
SYMBOL	X	Y	WID	HT
ARMED	67.9	12	22.3	35.1

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIESSIZE	
E	X	I	T	5	5	A									EM12,EM15
14	25.3	38.1	43	66.8	82.7	98.7									99.7
3	5	t	h			S	t								EM1612
19.3	36.2	53.1	66.2			89.3	105.5								57.1
S	t														EM1612
22.2	38.4														24.2

**SIGN DETAIL**  
1:100



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COCK	588	258
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	*I2021-922	PT2 ETC	2324.6-1P1R-11	

SIGN NUMBER	1B0161094R054.70 LT
WIDTH x HGHT.	15'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

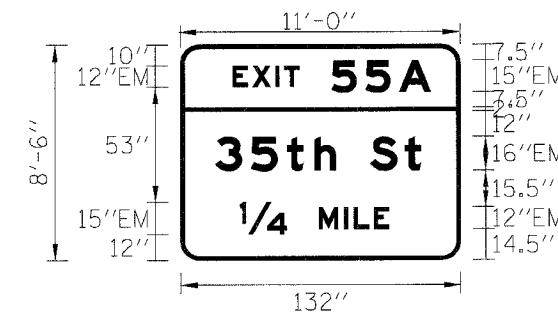
SYMBOL	X	Y	WID	HT

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIESSIZE	
E	X	I	T	5	5	B									EM12,EM15
75.5	84.9	95.6	99.6	122	137.8	153.6									90.2
P	e	r	s	h	i	n	g		R	d					EM1612
14.4	31	46.2	56.1	71.1	87.4	96.7	111.8	122	138	155					150.8
1/2	M	I	L	E											EM15,EM12
54.8	91.9	103.8	108.4	117.9											70.5

**SIGN DETAIL**  
1:100



SIGN NUMBER	1B0161094R054.70 RT
WIDTH x HGHT.	11'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIESSIZE	
E	X	I	T	5	5	A									EM12,EM15
24.4	33.9	44.7	48.8	71.2	87.1	103.1									93.8
3	5	t	h			S	t								EM1612
16.2	33.1	50	63.1	73.3	89.3	105.5									97.3
1/4	M	I	L	E											EM15,EM12
27.9	65.1	76.9	81.5	91											70.5

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

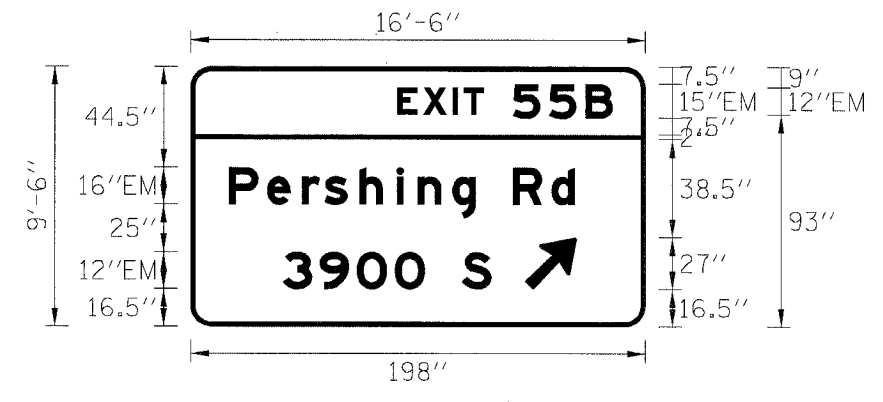
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
SIGN PANEL DETAILS

SCALE: 1"=50'  
DATE: 06/09/06  
DRAWN BY: RV  
CHECKED BY: AS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	259
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11

**SIGN DETAIL**  
1:100



SIGN NUMBER	1C016I094R055.02
WIDTH x HGHT.	16'-6" x 9'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

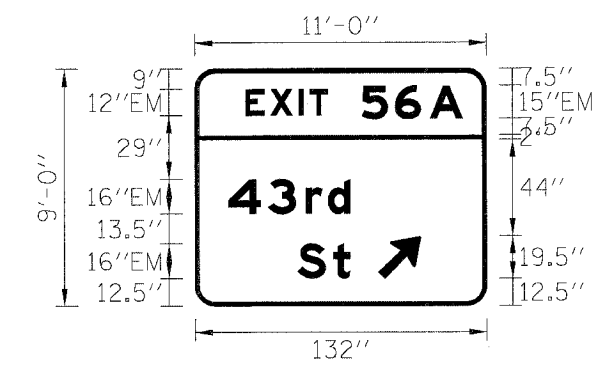
SYMBOL	X	Y	WID	HT
ARMED	145.5	16.5	22.3	35.1

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIESSIZE
E	X	I	T	5	5	B						EM12,EM15
89.9	101.2	114	118.9	140.3	156.1	171.9					94	
P	e	r	s	h	i	n	g	R	d			EM1612
16.5	33.1	48.4	58.2	73.3	89.6	98.8	114	124.2	140.2	157.1	150.8	
3	9	0	0		S							EM12
40.1	56.1	72.2	88.8	102	118						91	

**SIGN DETAIL**  
1:100



SIGN NUMBER	1S016I094R056.02 RT
WIDTH x HGHT.	11'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

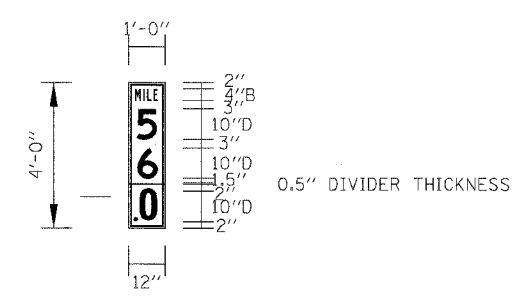
SYMBOL	X	Y	WID	HT
ARMED	82.8	12.5	22.3	35.1

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIESSIZE
E	X	I	T	5	6	A						EM12,EM15
22.8	34	46.9	51.7	75.5	90.6	106.5					98.7	
4	3	r	d									EM1612
15	33	50	60.1								55.4	
S	t											EM1612
46.2	62.3										24.2	

**SIGN DETAIL**  
1:100



SIGN NUMBER	PS05-02
WIDTH x HGHT.	1'-0" x 4'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Barrier
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

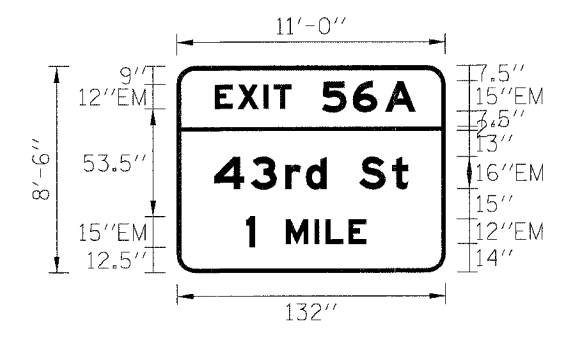
SYMBOL	X	Y	WID	HT

Panel Style:guide\_exp\_distance.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIESSIZE
M	I	L	E									B4
2.1	4.8	6	8.1								7.5	
5												D10
2.6											6.8	
6												D10
2.9											6.8	
												D10
1.6											1.5	
0												D10
3.5											6.8	

**SIGN DETAIL**  
1:100



SIGN NUMBER	1S016I094R055.0 RT
WIDTH x HGHT.	11'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIESSIZE
E	X	I	T	5	6	A						EM12,EM15.1
18.6	29.9	42.7	47.5	71.3	86.5	102.5					99	
4	3	r	d		S	t						EM1612
18.2	36.3	53.2	63.4	73.6	89.6	105.7					95.6	
1	M	I	L	E								EM15.1,EM12
34	53.5	67.6	73	84.3							59.1	

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
SIGN PANEL DETAILS

SCALE: NONE  
DATE: 06/09/06  
DRAWN BY: RV  
CHECKED BY: AS

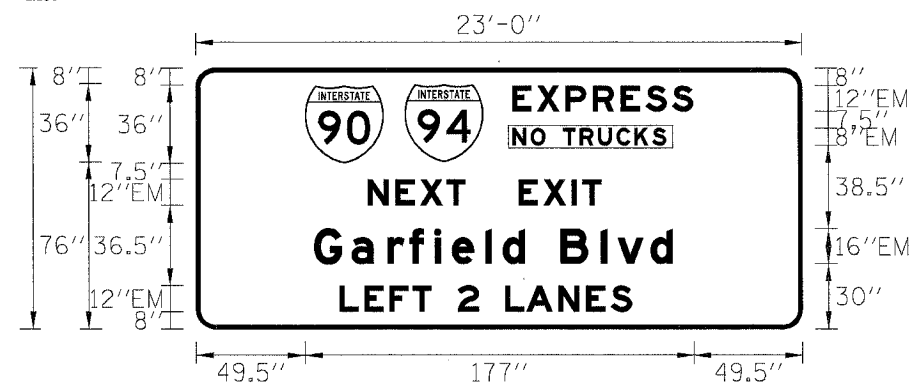
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	260
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

\* 62303 (2021-922 PT2 ETC 2324.6-IP) R-11

SIGN NUMBER	MP53.07 RT
WIDTH x HGHT.	23'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	50	67.5	36	36
M1_1	95.4	67.5	36	36

**SIGN DETAIL**  
1:100



SIGN NUMBER	MP53.07 LT
WIDTH x HGHT.	23'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

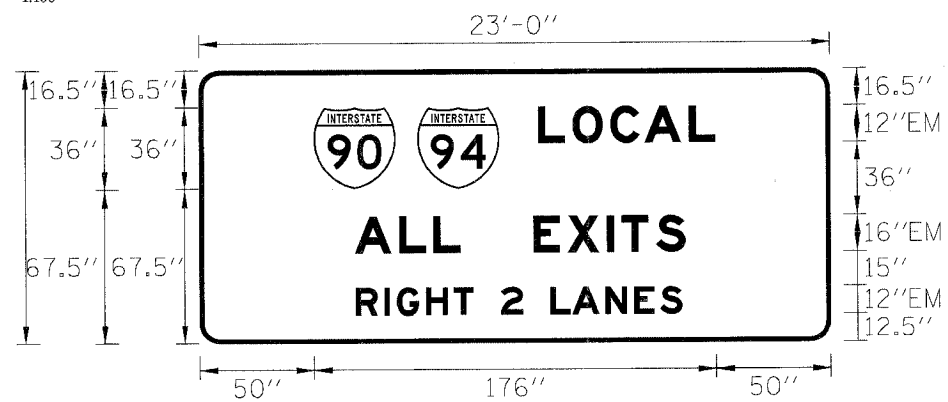
SYMBOL	X	Y	WID	HT
M1_1	49.5	76	36	36
M1_1	94.9	76	36	36

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESIZE			
E	X	P	R	E	S	S					EM12			
144	155.2	168.1	180.7	193.4	204.6	216.7				82.5				
N	O	T	R	U	C	K	S				EM8			
144	152.4	159	167	174.6	183	191.4	199.5	207.6		70.2				
N	E	X	T		E	X	I	T			EM12			
78	90.7	102	114	122.8	134.8	146.8	158.1	170.9	175.7	106.5				
G	a	r	f	i	e	l	d	B	l	v	d		EM16/12	
53.5	70.6	86.9	97	108.3	116.3	131.6	139.5	149.7	165.7	184.2	191.7	206.7	163.4	
L	E	F	T		2		L	A	N	E	S			EM12/15/12
65.2	76.5	87.7	98.2	107	119	128.6	140.6	150.2	164.7	177.3	188.6		133.2	

**SIGN DETAIL**  
1:100

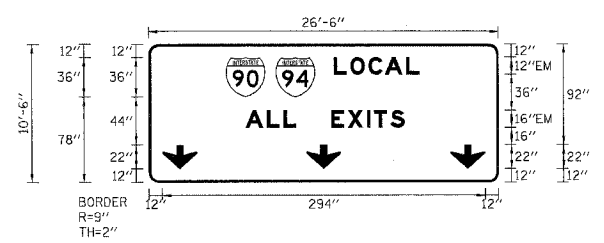


Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESIZE			
L	O	C	A	L							EM12			
148.3	163.4	180	194.9	214.2						77.6				
A	L	L		E	X	I	T	S			EM16			
68	87.3	102.3	114	130	146	161.1	178.2	184.6	199.7	144.8				
R	I	G	H	T		2		L	A	N	E	S		EM12/15/12
68.2	80.8	86.2	98.9	111	119.8	131.7	141.3	153.3	163	177.5	190.1	201.4	143	

**SIGN DETAIL**  
1:100



SIGN NUMBER	MP53.97
WIDTH x HGHT.	26'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

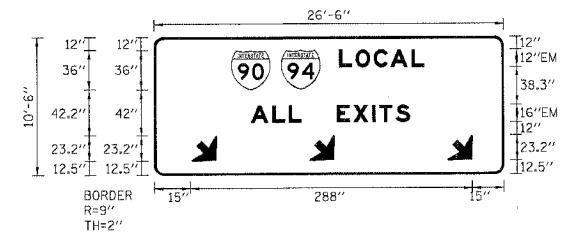
SYMBOL	X	Y	WID	HT
M1_1	70	78	36	36
M1_1	115.4	78	36	36
ARROW	12	12	32	22
ARROW	156	12	32	22
ARROW	300	12	32	22

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESIZE
L	O	C	A	L							EM12
168.3	183.4	199.9	214.9	234.2						77.6	
A	L	L		E	X	I	T	S			EM16
87.9	107.2	122.3	134	150	166	181.1	198.2	204.6	219.7	144.8	

**SIGN DETAIL**  
1:100



SIGN NUMBER	MP54.13
WIDTH x HGHT.	26'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	70	78	36	36
M1_1	115.4	78	36	36
ARROW	15	12.5	32	22
ARROW	159	12.5	32	22
ARROW	303	12.6	32	22

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESIZE
L	O	C	A	L							EM12
168.3	183.4	199.9	214.9	234.2						77.6	
A	L	L		E	X	I	T	S			EM16
87.9	107.2	122.3	134	150	166	181.1	198.1	204.6	219.6	144.8	

NOTE:  
ALL EXISTING SIGN PANELS ON VIERENDEL TRUSSES SHALL BE REPLACED WITH NEW SIGN PANELS. THE SIZE OF THE PROPOSED SIGN PANELS ARE BASED ON THE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY THE SIZES OF THE EXISTING SIGN PANELSPRIOR TO SIGN FABRICATION.

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
SIGN PANEL DETAILS

SCALE: NONE  
DATE: 06/09/06  
DRAWN BY: RV  
CHECKED BY: AS



8/4/2006 4:24:34 PM

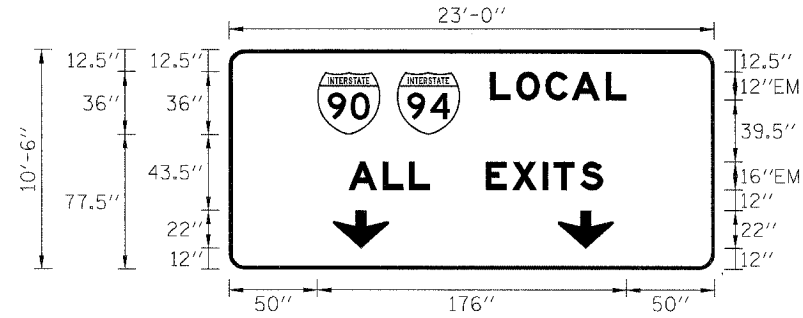
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	261
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 62303 (2021-922 PT2 ETC 2324.6-IP) R-11				

SIGN NUMBER	MP54.53
WIDTH x HGHT.	23'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	50	75	36	36
M1_1	95.4	75	36	36
ARNDOWN	123.5	12	32	22

**SIGN DETAIL**  
1:100

NOTE:  
ALL EXISTING SIGN PANELS ON VIERENDEL TRUSSES SHALL BE REPLACED WITH NEW SIGN PANELS. THE SIZE OF THE PROPOSED SIGN PANELS ARE BASED ON THE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY THE SIZES OF THE EXISTING SIGN PANELSPRIOR TO SIGN FABRICATION.



SIGN NUMBER	MP54.25 and MP53.61
WIDTH x HGHT.	23'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	50	77.5	36	36
M1_1	95.4	77.5	36	36
ARNDOWN	52	12	32	22
ARNDOWN	196	12	32	22

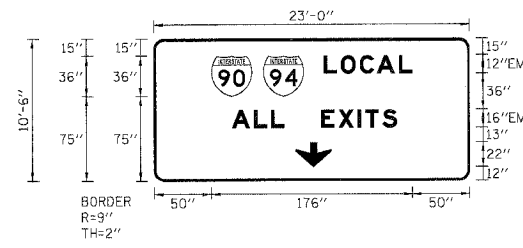
Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESSIZE
L	O	C	A	L						77.6	EM12
148.4	163.4	180	194.9	214.2							EM16
A	L	L			E	X	I	T	S		
67.9	87.3	102.3	114	130	146	161.1	178.2	194.7	199.7	144.8	

**SIGN DETAIL**  
1:100

NOTE:  
ALL EXISTING SIGN PANELS ON VIERENDEL TRUSSES SHALL BE REPLACED WITH NEW SIGN PANELS. THE SIZE OF THE PROPOSED SIGN PANELS ARE BASED ON THE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY THE SIZES OF THE EXISTING SIGN PANELSPRIOR TO SIGN FABRICATION.



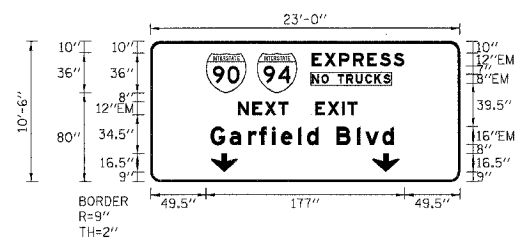
Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESSIZE
L	O	C	A	L						77.6	EM12
148.4	163.4	180	194.9	214.3							EM16
A	L	L			E	X	I	T	S		
68	87.3	102.3	114.1	130.1	146.1	161.1	178.2	184.7	199.7	144.8	

**SIGN DETAIL**  
1:100

NOTE:  
ALL EXISTING SIGN PANELS ON VIERENDEL TRUSSES SHALL BE REPLACED WITH NEW SIGN PANELS. THE SIZE OF THE PROPOSED SIGN PANELS ARE BASED ON THE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY THE SIZES OF THE EXISTING SIGN PANELSPRIOR TO SIGN FABRICATION.



SIGN NUMBER	MP54.13,54.25,54.53,53.97,53.61
WIDTH x HGHT.	23'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

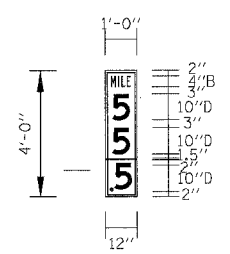
SYMBOL	X	Y	WID	HT
M1_1	49.5	80	36	36
M1_1	95	80	36	36
ARNDOWN	53.7	9	24	16.5
ARNDOWN	198	9	24	16.5

Panel Style:guide\_exp\_advance\_b.ssi  
Dimensions are inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESSIZE			
E	X	P	R	E	S	S				82.5	EM12			
144	155.2	168.1	180.7	193.4	204.6	216.7					EM8			
N	O		T	R	U	C	K	S		70.2				
144	152.4	159	167	174.6	183	191.4	199.5	207.6						
N	E	X	T		E	X	I	T		106.5	EM12			
78	90.7	102	114	122.8	134.8	146.8	158.1	170.9	175.7					
G	a	r	f	i	e	l	d	B	l	v	d	163.4	EM16/12	
53.6	70.6	86.9	97	108.3	116.3	131.6	139.5	149.7	165.7	184.2	191.7	206.7		

**SIGN DETAIL**  
1:100



Panel Style:guide\_exp\_distance.ssi  
Dimensions are inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)					LENGTH	SERIESSIZE
M	I	L	E		7.6	B4
2.1	4.8	6	8.1			D10
5					6.8	D10
2.6						D10
5					6.8	D10
2.9						D10
1.6					1.5	D10
5						D10
8.5					6.8	

SIGN NUMBER	P806-05
WIDTH x HGHT.	1'-0" x 4'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Barrier
BACKGROUND	TYPE: Reflective COLOR: Green
LEGENDBORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

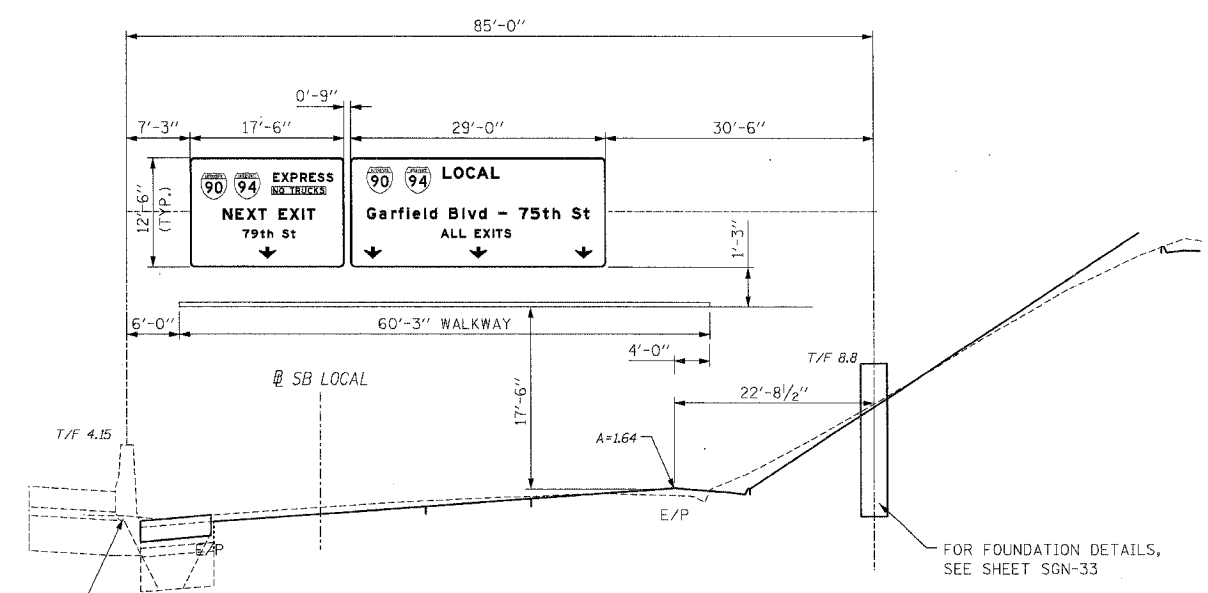
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
SIGN PANEL DETAILS

SCALE: NONE  
DATE: 06/09/06  
DRAWN BY: RV  
CHECKED BY: AS



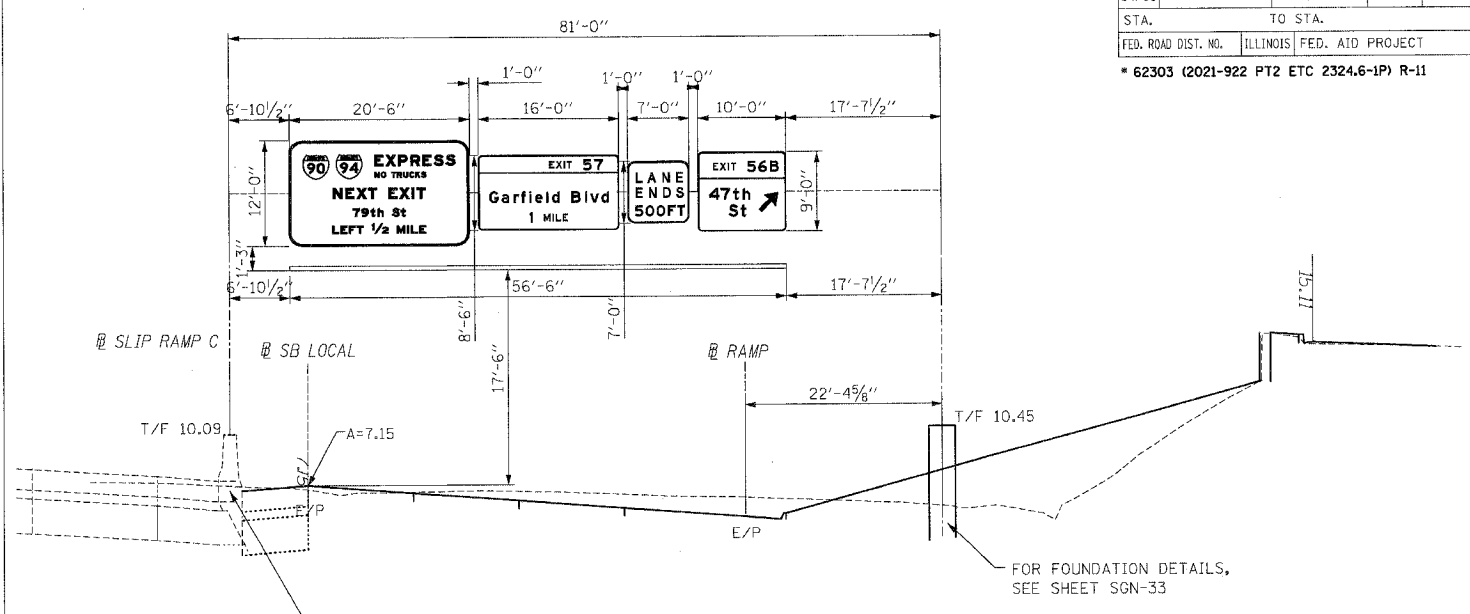
R:\62303\9094\DRAWING\KAM\ADDENDUM\_PAS5190051\A2-281

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	262
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11				



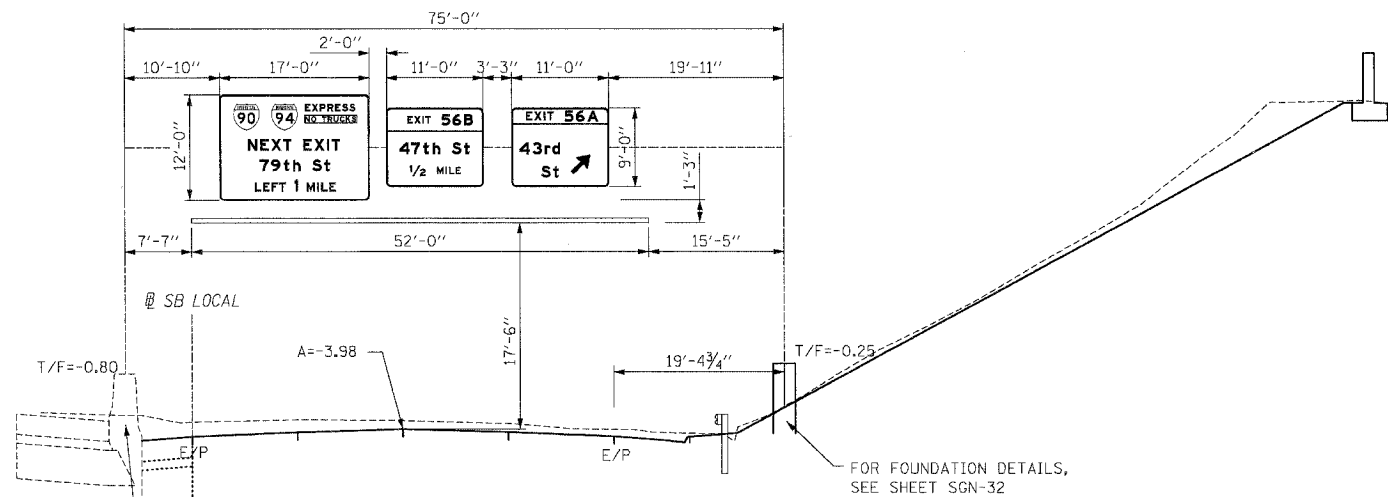
USE EXISTING FOUNDATION BUILT IN CONTRACT 62302

LOCAL LANES SOUTH BOUND  
ISO161094R056.67  
STA. 3532+00±



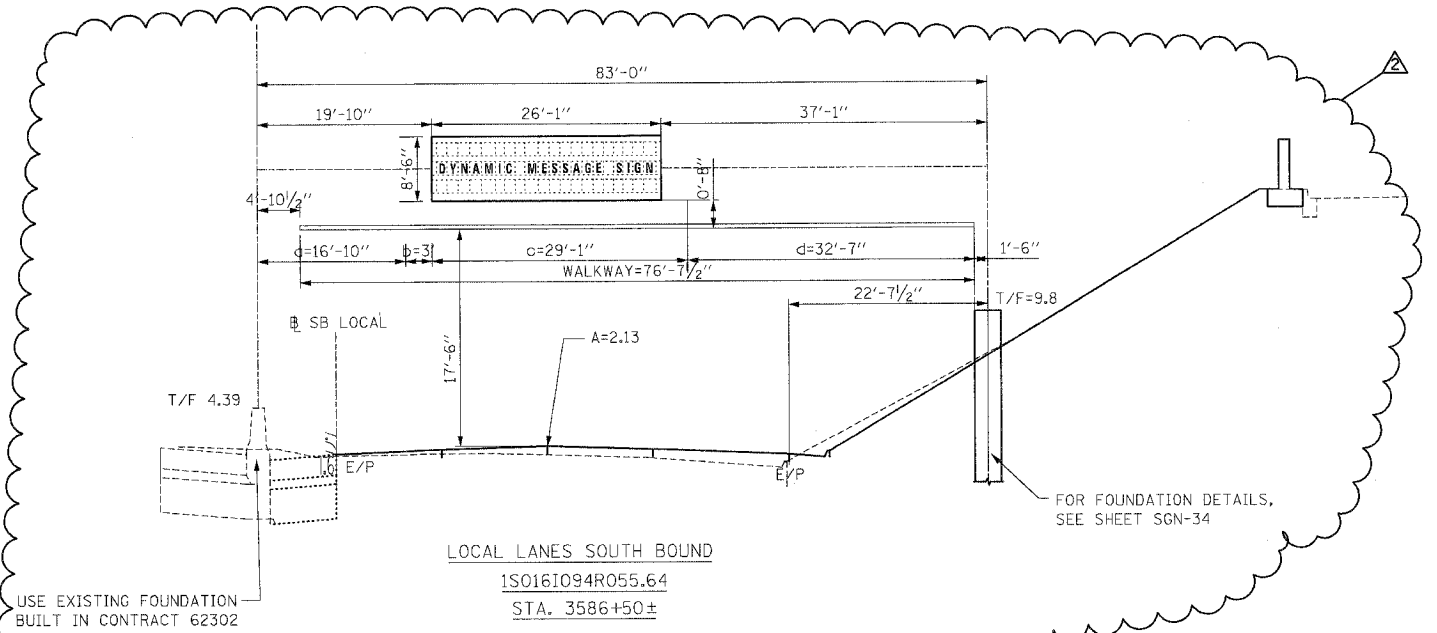
USE EXISTING FOUNDATION BUILT IN CONTRACT 62302

LOCAL LANES SOUTH BOUND  
ISO161094R056.47  
STA. 3543+00±



USE EXISTING FOUNDATION BUILT IN CONTRACT 62302

LOCAL LANES SOUTH BOUND  
ISO161094R056.02  
STA. 3566+30±



USE EXISTING FOUNDATION BUILT IN CONTRACT 62302

LOCAL LANES SOUTH BOUND  
ISO161094R055.64  
STA. 3586+50±

- NOTES:**
1. PROPOSED PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY.
  2. REFER TO ELECTRICAL INFRASTRUCTURE PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT EMBEDDED IN THE OVERHEAD SIGN FOUNDATIONS.
  3. THE DYNAMIC MESSAGE SIGN SHALL BE FASTENED TO THE SIGN TRUSS BY THE CONTRACT 62303 CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THE ERECTION OF THE SIGN TRUSS WITH CONTRACT 62583.
  4. THE FABRICATOR SHALL COORDINATE WITH THE MANUFACTURER OF THE DYNAMIC MESSAGE SIGN (DMS) TO DETERMINE THE ACTUAL SIZE, WEIGHT AND MOUNTING DETAILS OF THE DMS BEFORE ORDERING OR FABRICATING ANY MATERIALS FOR THE TRUSS OR WALKWAY/SIGN SUPPORTS.

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST (SB LOCAL LANES)  
SIGN PLACEMENT DETAILS

SCALE: NONE  
DATE: 06/09/06

DRAWN BY: RV  
CHECKED BY: MSA

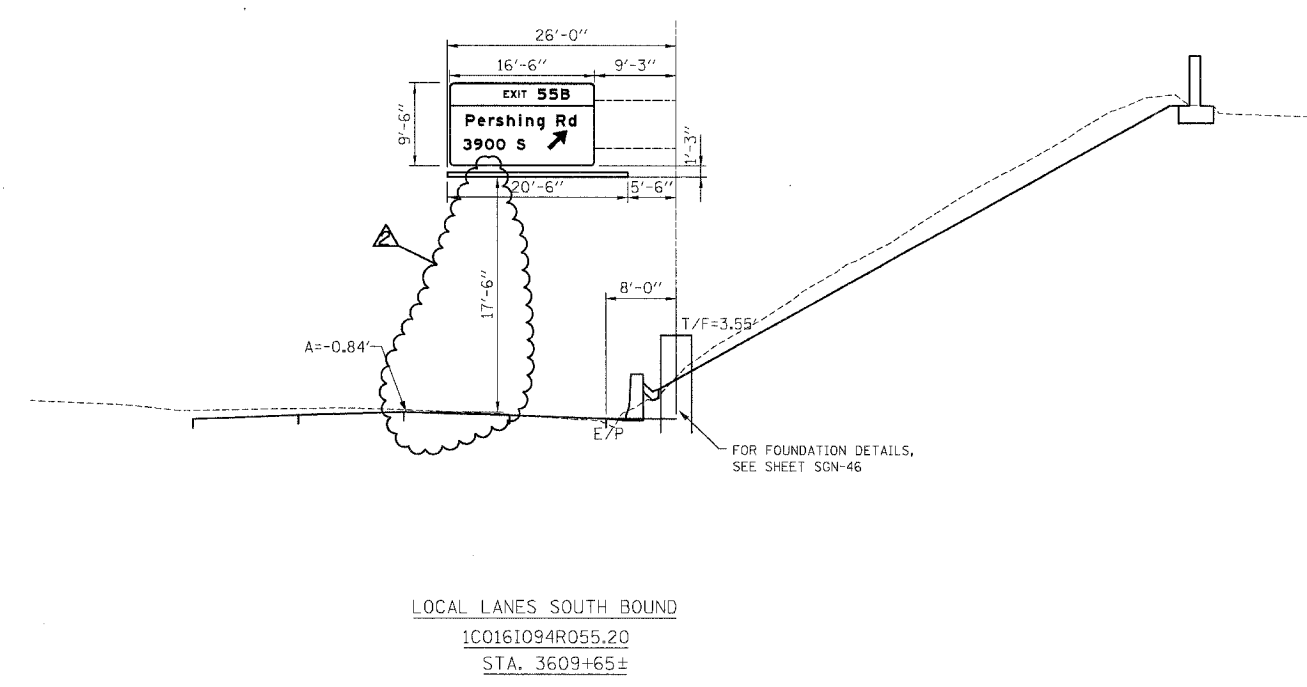
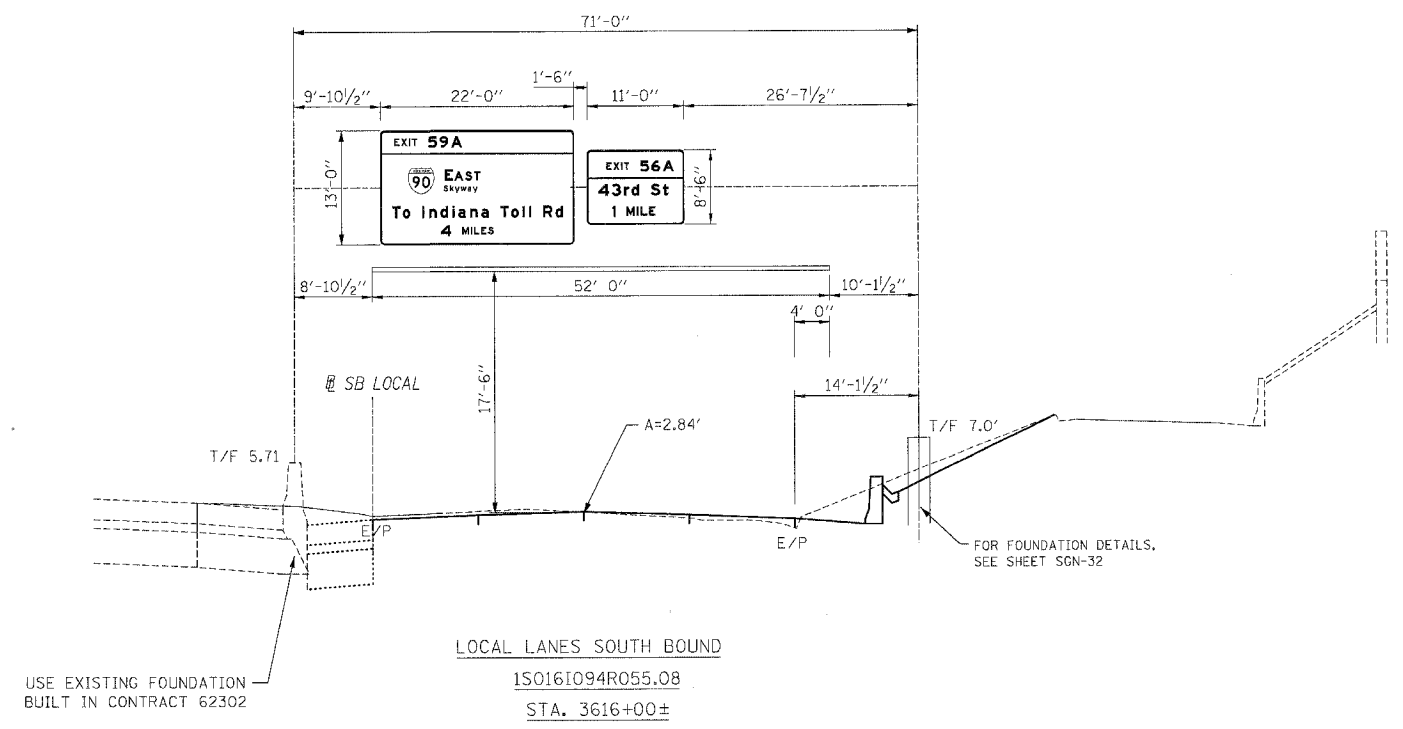
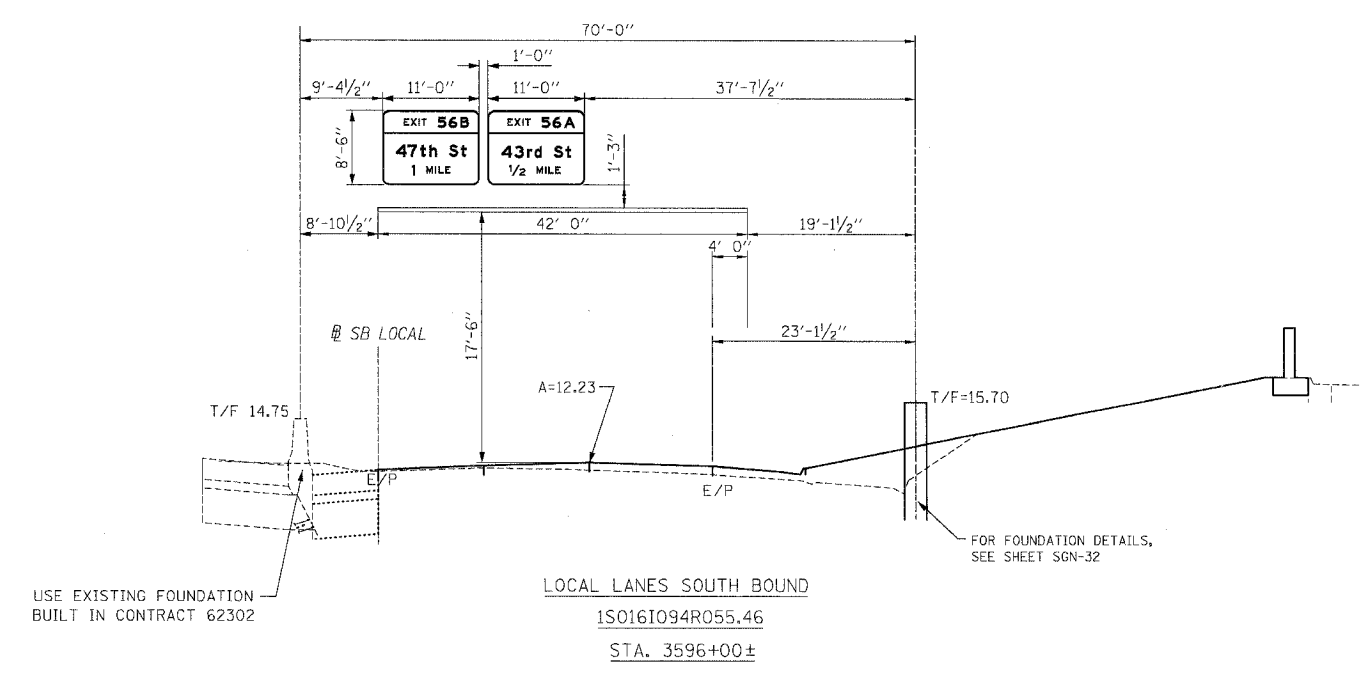
SGN-12



4/57/06

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	263
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11



**KAM ENGINEERING, INC.**  
CONSULTING ENGINEERS  
707A Davis Road, Suite 205  
Evanston, Illinois 60231-3369

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
SIGN PLACEMENT DETAILS

SCALE: NONE  
DATE: 06/09/06

DRAWN BY: MD  
CHECKED BY: MSA

SGN-13

8/4/2006 4:51:45 PM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET
94/90	*	COOK	588	265
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11				

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. \*AASHTO Specifications\*

CONSTRUCTION: Current \*at time of letting\* Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. \*Standard Specifications\*

LOADING: 90 M.P.H. WIND VELOCITY.

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:  
Field Units  
F<sub>c</sub> = 3,500 p.s.i.  
F<sub>y</sub> = 60,000 p.s.i. \*reinforcement\*

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes \*Steel and Aluminum\* and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch \*CVN\* energy of 15 lb.-ft. at 40\* F. \*Zone 2\* before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 \*ASTM A325\*, or approved alternate, and must have matching lock nuts. Threaded studs for splices \*if Members interfere\* must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 \*\* \*2\*d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity \*ROCAP\*\* testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

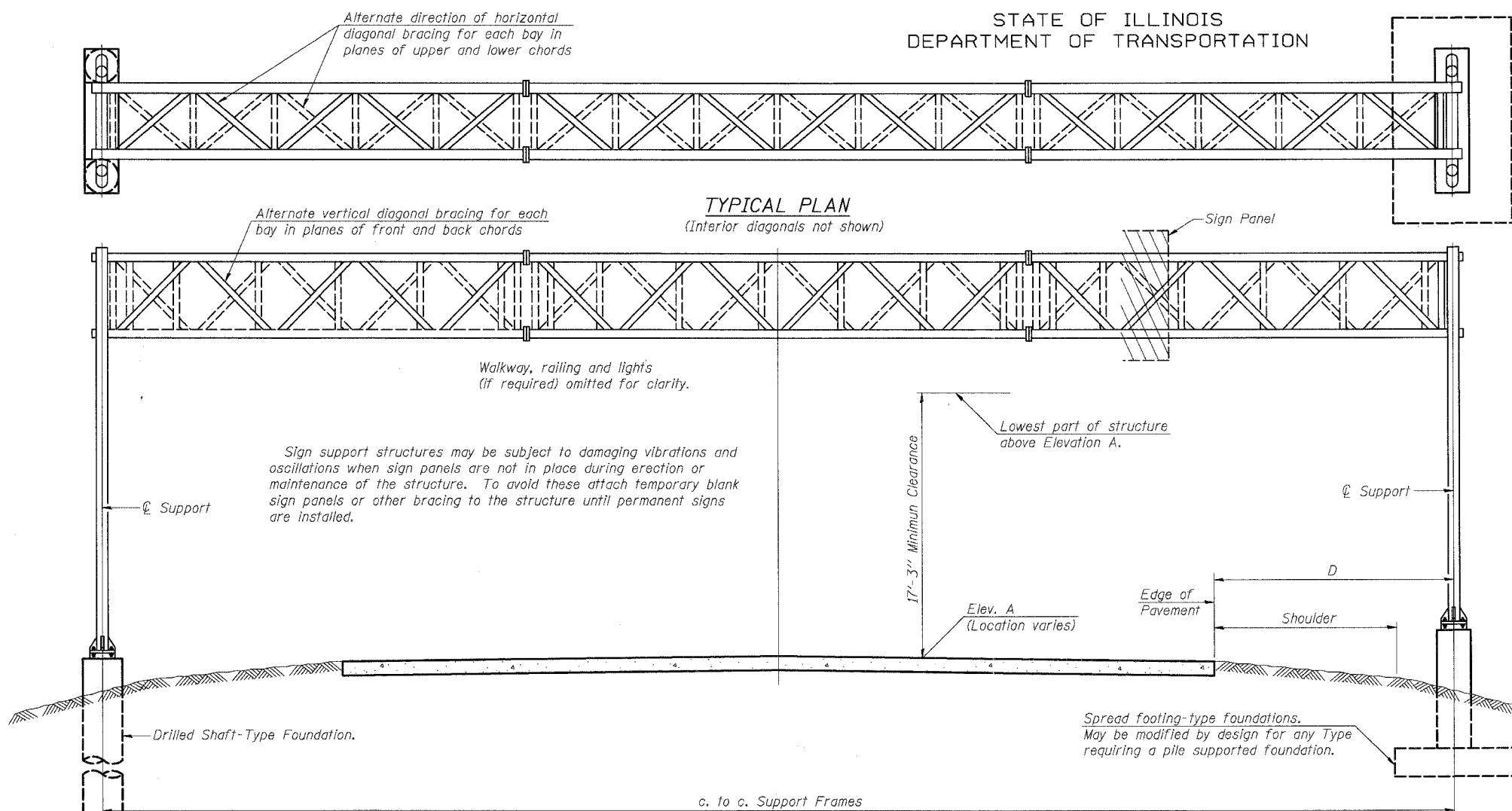
ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch \*CVN\* energy of 15 lb.-ft. at 40\* F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated \*E\* shall be epoxy coated in accordance with the Standard Specifications.

SGN-15

\* If M270 Gr. 50W \*M222\* steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

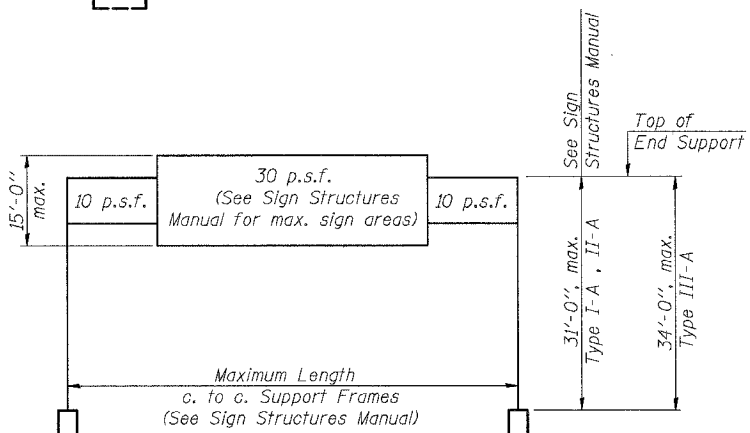


TYPICAL ELEVATION  
(Looking at Face of Signs\*\*)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
ISO161094R057.1	3511+00.00	II-A	90'	6.74'	18.83'L/21.34'R	12.5'	390.5 SF
ISO161094R057.4	3493+30.00	I-A	66'	6.6'	6.28'L/21.72'R	8.5'	220.0 SF
ISO161094R056.8	3524+00.00	II-A	83'	1.09'	11.71'L/21.29'R	12.5'	581.3 SF
ISO161094R057.8	3475+92.44	III-A	49.5'	-0.29'	5.18'L/6.32'R	8.5'	221.7 SF
ISO161094R056.67	3532+00	II-A	85.00'	1.64'	22.71'	12.5'	581.3 SF
ISO161094R056.47	3543+00	II-A	81.00'	7.15'	22.39'	12.0'	521 SF
ISO161094R056.02	3566+30	I-A	75.00'	-3.98'	19.40'	12.0'	402 SF
ISO161094R055.64	3586+50	III-A	83.00'	2.13'	22.63'	8.5'	222 SF
ISO161094R055.46	3596+00	I-A	70.00'	12.23'	23.13'	8.5'	187 SF
ISO161094R055.08	3616+00	I-A	71.00'	2.84'	14.13'	13.0'	379.5 SF

\*\*Looking upstation for structures with signs both sides.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

DESIGNED	AC
CHECKED	AS
DRAWN	RV
CHECKED	MSA

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-1 1-7-05

NUMBER	REVISION	DATE
Δ	ADDENDUM 2	8/04/06

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE TYPE I-A (4'-0" x 4'-6")	Foot	282.0
OVERHEAD SIGN STRUCTURE TYPE II-A (4'-6" x 5'-3")	Foot	339.0
OVERHEAD SIGN STRUCTURE TYPE III-A (5'-0" x 7'-0")	Foot	132.5
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	553.4
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	143.3

OVERHEAD SIGN STRUCTURES  
GENERAL PLAN & ELEVATION  
ALUMINUM TRUSS & STEEL SUPPORTS

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
OVERHEAD SIGN STRUCTURES  
(SPAN)

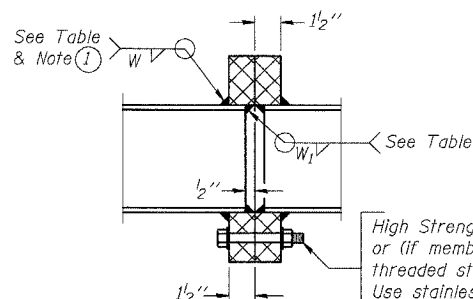
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	267

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT -  
\* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11

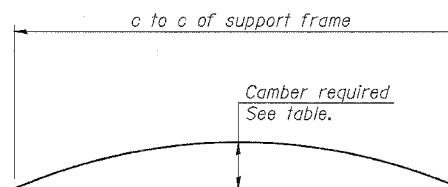
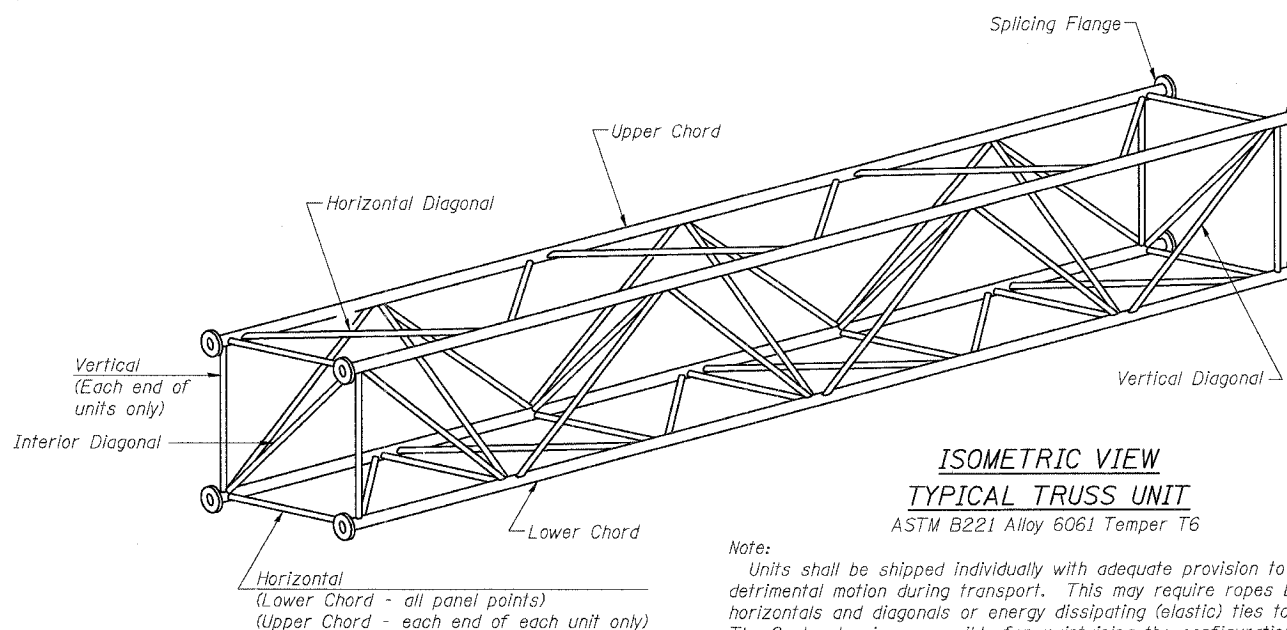
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit			Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange						
			No. Panels per Unit	Unit Lgth.(L <sub>e</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.		Wall	No./Splice	Diag.	Weld Sizes W	W <sub>1</sub>	A	B
ISO161094R057.1	3511+00.00	II-A	5	28'-11 1/2"	5'-5"	1	6	33'-9"	5'-5"	6"	5/16"	3"	5/16"	2.5"	6	7/8"	3/8"	1/4"	10 1/4"	13 3/4"
ISO161094R057.4	3493+30.00	I-A	7	33'-9 3/4"	4'-6 3/4"	0	--	--	--	4 1/2"	1/4"	2 1/4"	1/4"	1.6"	6	3/4"	1/4"	3/16"	8 1/4"	11 1/4"
ISO161094R056.8	3524+00.00	II-A	5	26'-9 1/4"	4'-11 3/4"	1	6	31'-1 1/2"	4'-11 3/4"	5 1/2"	5/16"	3"	5/16"	2.1"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
ISO161094R057.8	3475+92.44	III-A	5	25'-7 1/2"	4'-9"	0	--	--	--	7"	5/16"	3 1/4"	5/16"	1.0"	6	1"	7/16"	5/16"	11 1/2"	15"
ISO161094R056.67	3532+00	II-A	5	27'-4 3/4"	5'-1 1/4"	1	6	31'-10 1/2"	5'-1 1/4"	5 1/2"	5/16"	3"	5/16"	2.25"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
ISO161094R056.47	3543+00	II-A	5	26'-1 3/4"	4'-10 1/4"	1	6	30'-4 1/2"	4'-10 1/4"	5 1/2"	5/16"	3"	5/16"	2.00"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
ISO161094R056.02	3566+30	I-A	8	38'-2 1/2"	4'-6 1/2"	--	--	--	--	5"	1/4"	2 1/2"	1/4"	1.80"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
ISO161094R055.64	3586+50	III-A	5	26'-9 1/4"	4'-11 3/4"	1	6	31'-1 1/2"	4'-11 3/4"	7"	5/16"	3 1/4"	5/16"	1.80"	6	1"	7/16"	5/16"	11 1/2"	15"
ISO161094R055.46	3596+00	I-A	7	35'-8 1/2"	4'-10"	--	--	--	--	5"	1/4"	2 1/2"	1/4"	1.75"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
ISO161094R055.08	3616+00	I-A	7	36'-3 1/2"	4'-11"	--	--	--	--	5"	5/16"	2 1/2"	5/16"	1.80"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"



SECTION B-B

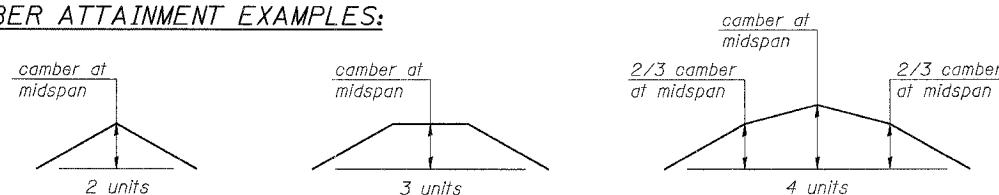
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



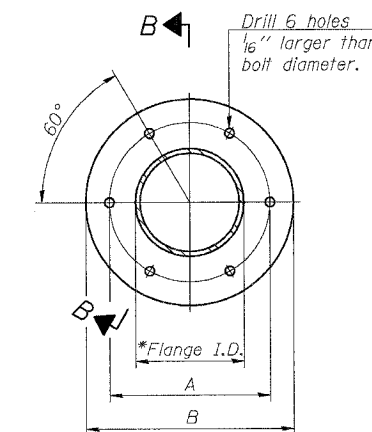
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

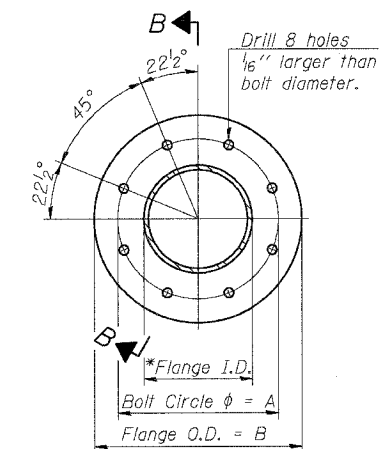
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6  
or ASTM B209, Alloy 6061-T651

\*To fit O.D. of Chord with maximum gap of 1/16".

NUMBER	REVISION	DATE
Δ	ADDENDUM 2	8/04/06

DESIGNED	AC	20
CHECKED	AS	EXAMINED
DRAWN	RV	ENGINEER OF STRUCTURAL SERVICES
CHECKED	MSA	PASSED
		ENGINEER OF BRIDGES AND STRUCTURES

OS4-A-2

1-7-05

SGN-17

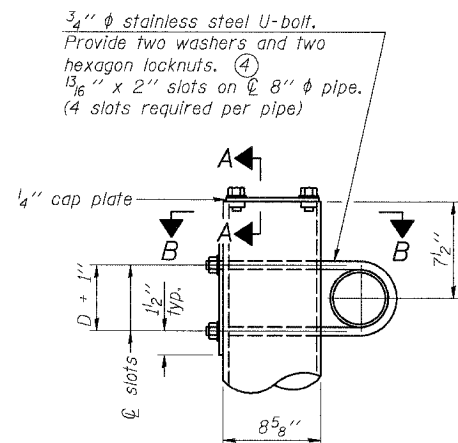
OVERHEAD SIGN STRUCTURES  
ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A and III-A  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
OVERHEAD SIGN STRUCTURES  
(SPAN)



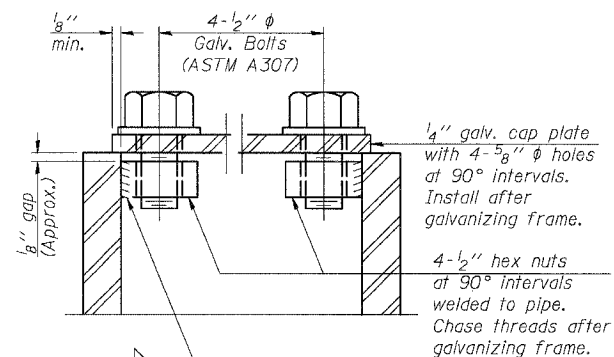
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	269
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

\* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11

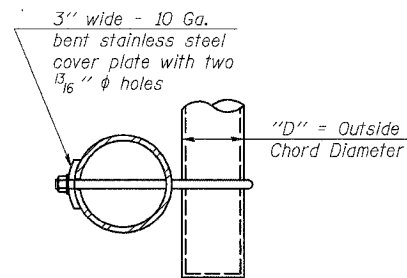


DETAIL A

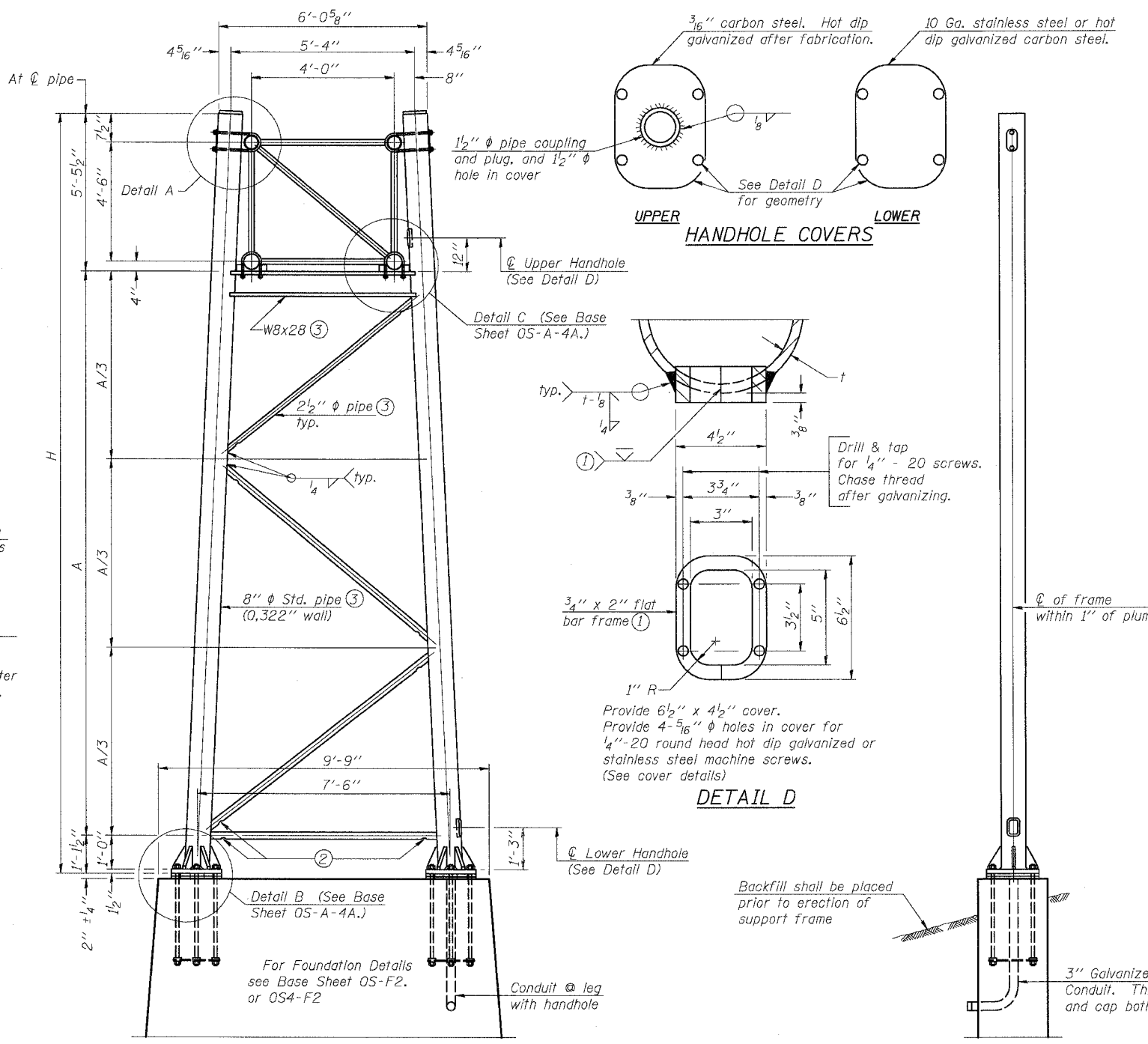


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

8" φ PIPE TRUSS SUPPORT FRAME

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.

Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate \*rolling direction vertical\*. All cut faces to be ground to ANSI Roughness of 500 min or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		H	A
		Left	Right		
ISO161094R057.4	3493+30	X		22.59'	16.01'
ISO161094R057.4	3493+30		X	20.66'	14.08'
ISO161094R056.02	3566+30	X		24'-3 3/8"	17'-8 3/8"
ISO161094R056.02	3566+30		X	23'-8 3/4"	17'-1 3/4"
ISO161094R055.46	3596+00	X		23'-2 1/4"	16'-7 1/4"
ISO161094R055.46	3596+00		X	22'-2 3/4"	15'-7 1/4"
ISO161094R055.08	3616+00	X		25'-1 1/8"	18'-6 1/8"
ISO161094R055.08	3616+00		X	23'-9 5/8"	17'-2 5/8"

DESIGNED	AC	20
CHECKED	AS	EXAMINED
DRAWN	RV	PASSED
CHECKED	MSA	

OS-A-4

1-7-05

NUMBER	REVISION	DATE
▲	ADDENDUM 2	8/04/06

SGN-19

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME for TYPE I-A ALUMINUM TRUSS

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
OVERHEAD SIGN STRUCTURES  
(SPAN)

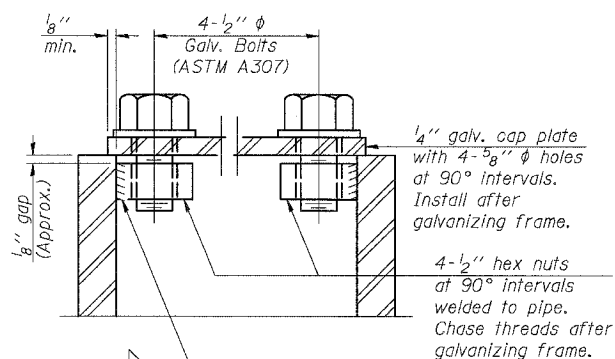
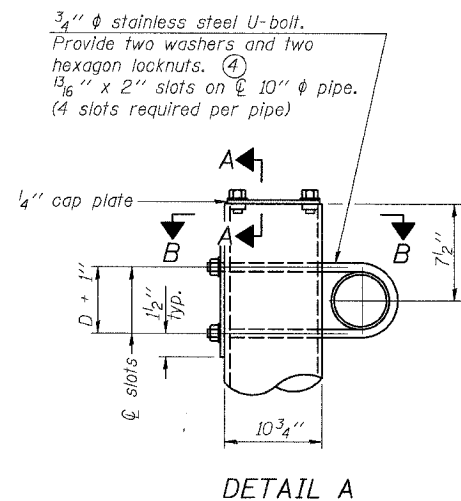
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
94/90	*	COOK	588	271
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT -		

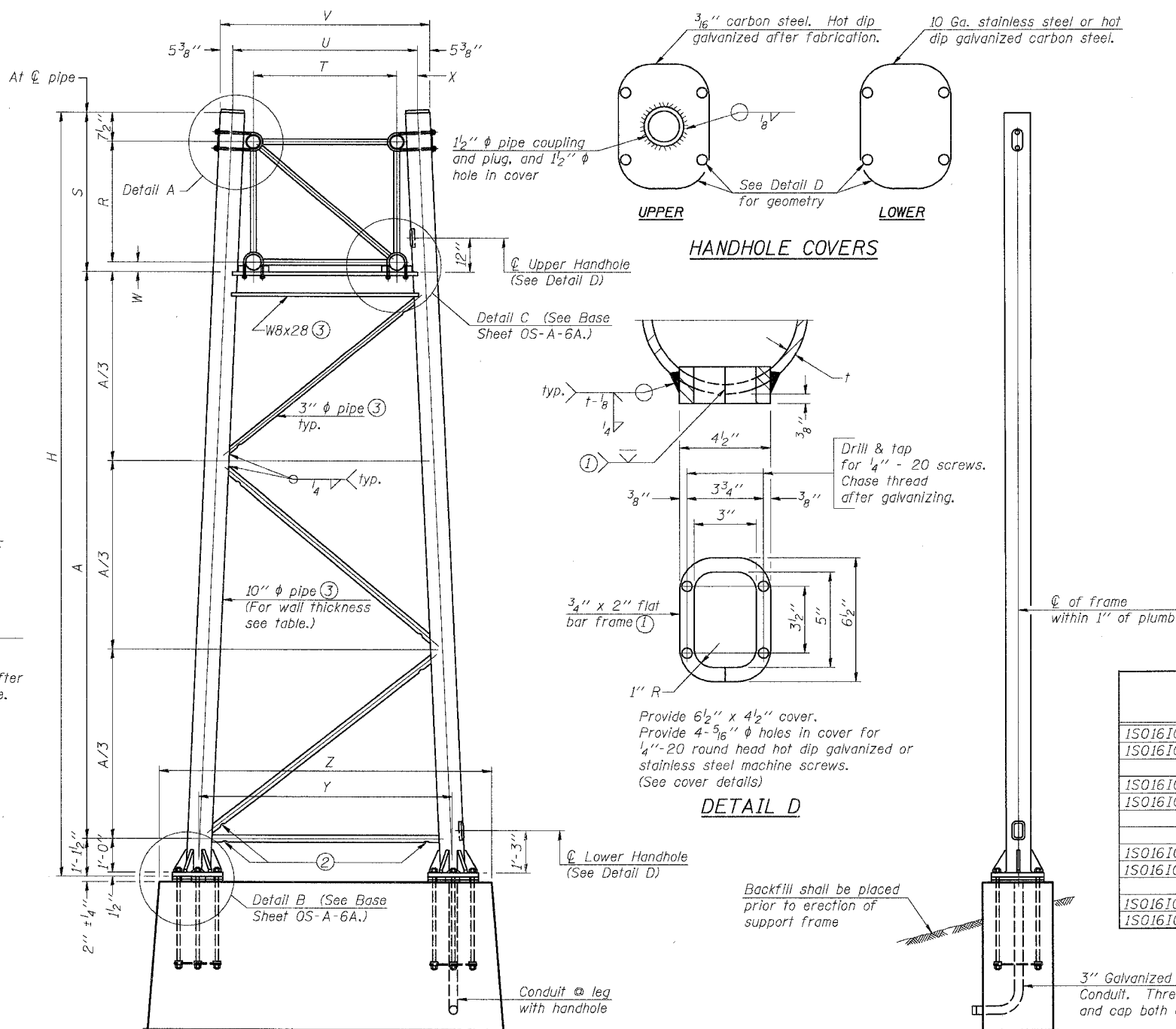
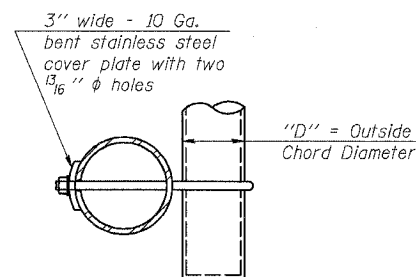
\* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 2" plate \*rolling direction vertical\*. All cut faces to be ground to ANSI Roughness of 500 min or less.
- Galvanizing vent holes of adequate size shall be provided on underside of each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.



As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

END ELEVATION

10"  $\phi$  PIPE TRUSS SUPPORT FRAME

Structure Number	Station	Support Left	Support Right	Truss Type	Pipe Wall Thickness	H	A
ISO161094R057.1	3511+00	X		II-A	0.365 (Std)	25.51'	18.12'
ISO161094R057.1	3511+00		X	II-A	0.365 (Std)	22.10'	14.71'
ISO161094R056.8	3524+00	X		II-A	0.365 (Std)	25.50'	18.11'
ISO161094R056.8	3524+00		X	II-A	0.365 (Std)	23.00'	15.61'
ISO161094R056.67	3532+00	X		II-A	0.365 (Std)	25'-6 5/8"	18'-2 1/4"
ISO161094R056.67	3532+00		X	II-A	0.365 (Std)	20'-11 3/16"	13'-6 7/16"
ISO161094R056.47	3543+00	X		II-A	0.365 (Std)	24'-10 5/16"	17'-6 1/16"
ISO161094R056.47	3543+00		X	II-A	0.365 (Std)	24'-6 1/2"	17'-1 3/4"

DESIGNED	AC
CHECKED	AS
DRAWN	RV
CHECKED	MSA

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-6

1-7-05

NUMBER	REVISION	DATE
ADDENDUM 2		8/04/06

Truss Type	Dimensions								
	R	S	T	U	V	W	X	Y	Z
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"	10'-9"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"	10'-9"

SGN-21

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME for ALUMINUM TRUSS

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

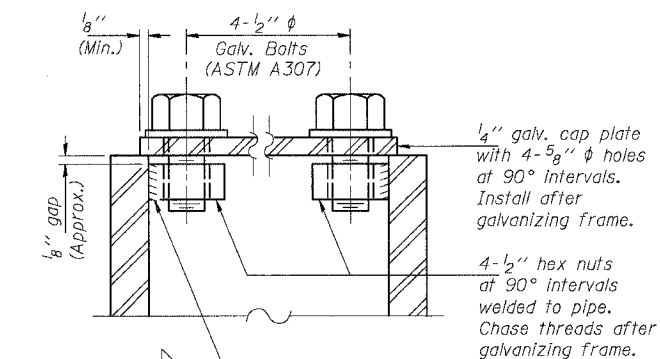
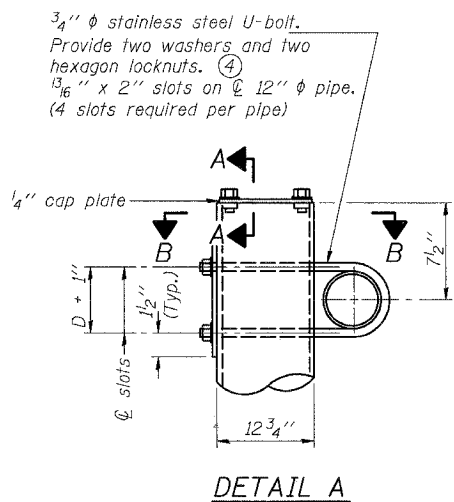
OVERHEAD SIGN STRUCTURES  
(SPAN)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

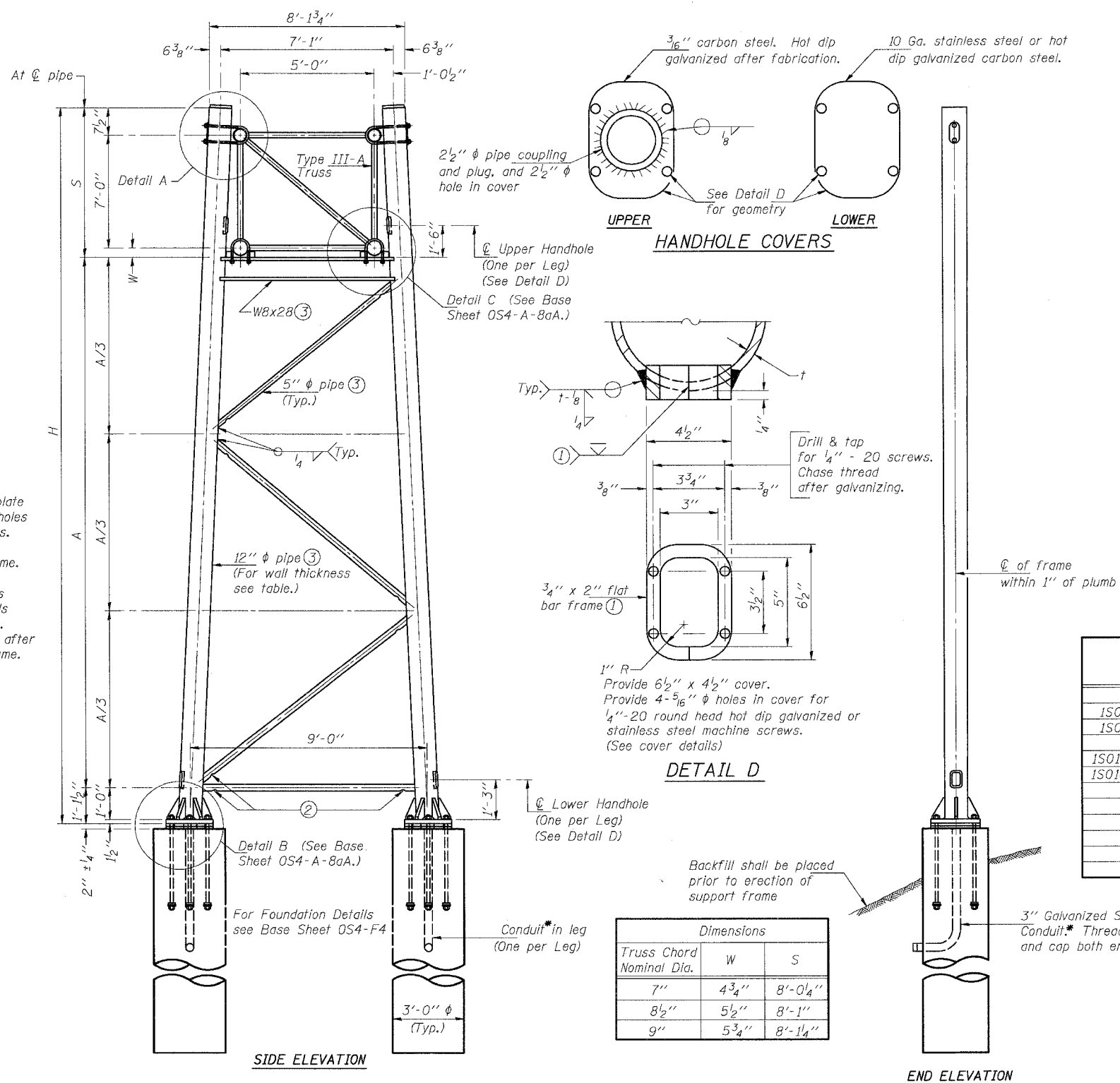
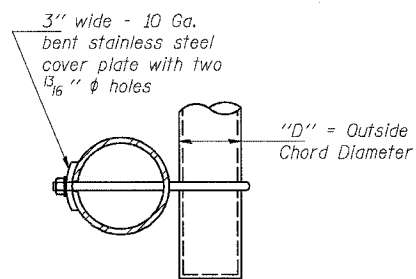
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
94/90	*	COOK	588	273

60VER19

\* 62303 (2021-922 FT2 ETC 2324.6-1P) R-11



As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		Pipe Wall Thickness	H	A
		Left	Right			
ISO161094R057.8	3475+92.44	X		0.33	24'-0"	14'-10 5/16"
ISO161094R057.8	3475+92.44		X	0.33	23'-8 3/4"	14'-6 1/16"
ISO161094R055.64	3586+50	X		0.33	24'-8 3/8"	15'-6 7/16"
ISO161094R055.64	3586+50		X	0.33	19'-3 7/16"	10'-1 5/8"

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

TRUSS SUPPORT DETAILS  
(12"  $\phi$  Pipe-Type III-A Truss)

\* COORDINATE WITH CONTRACT 62583 FOR LOCATION, TYPE, AND ORIENTATION OF CONDUIT.

DESIGNED	AC	20
CHECKED	AS	EXAMINED
DRAWN	RV	PASSED
CHECKED	MSA	

NUMBER	REVISION	DATE
▲	ADDENDUM 2	8/04/06

MODIFIED BY CTE ENGINEERS, INC FROM OS4-A-8a

1-7-05

SGN-23

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME for TYPE III-A ALUMINUM TRUSS

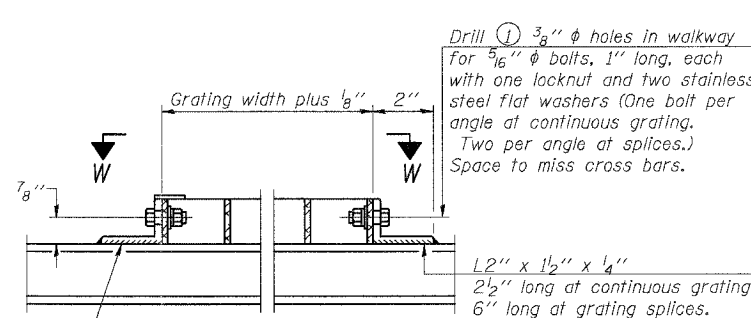
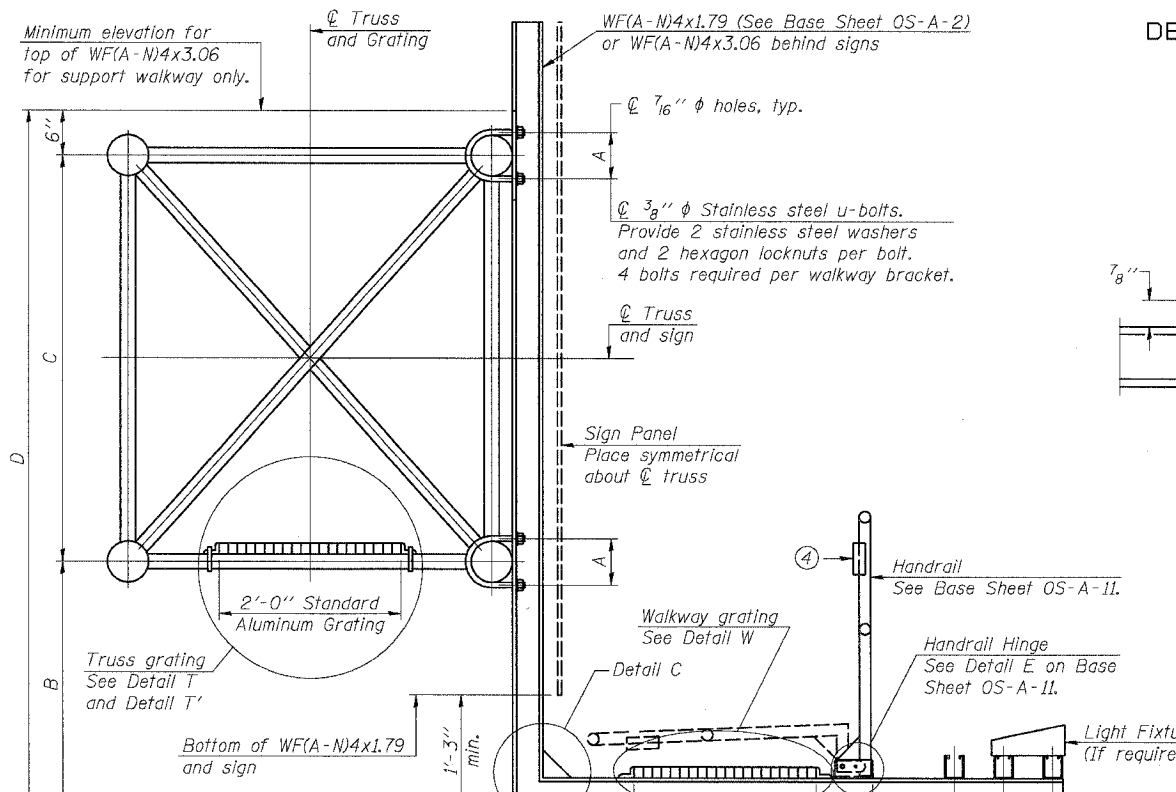
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

OVERHEAD SIGN STRUCTURES  
(SPAN)

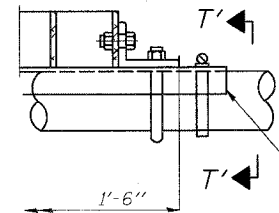
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	PROJECT	SHEET
94/90	*	COOK	588	276

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT-  
\* 62303 (2021-922 PT2 ETC 2324.6-IP) R-11

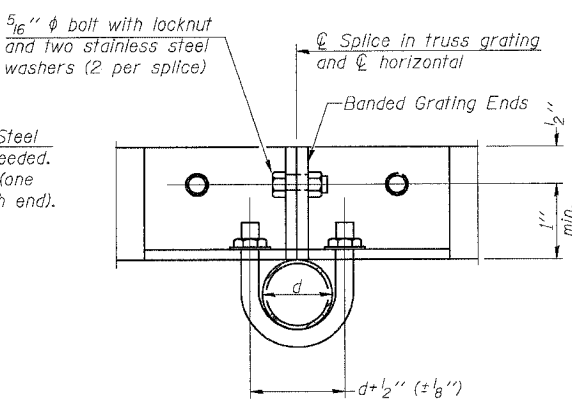


DETAIL W  
(Walkway grating)

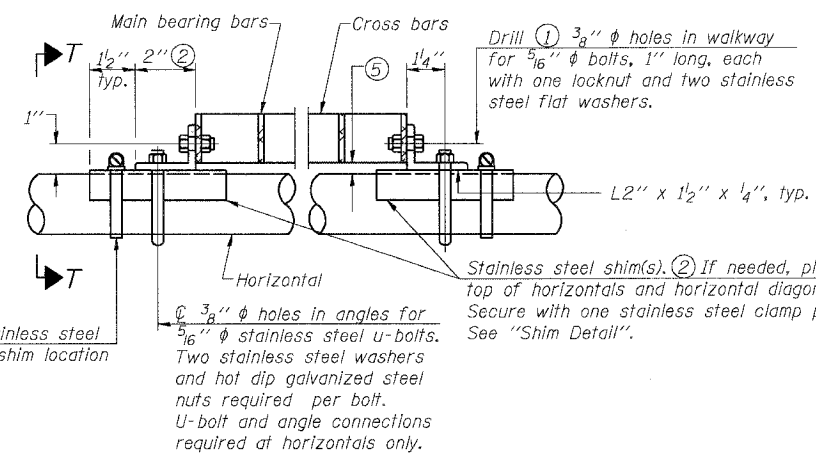


DETAIL T'

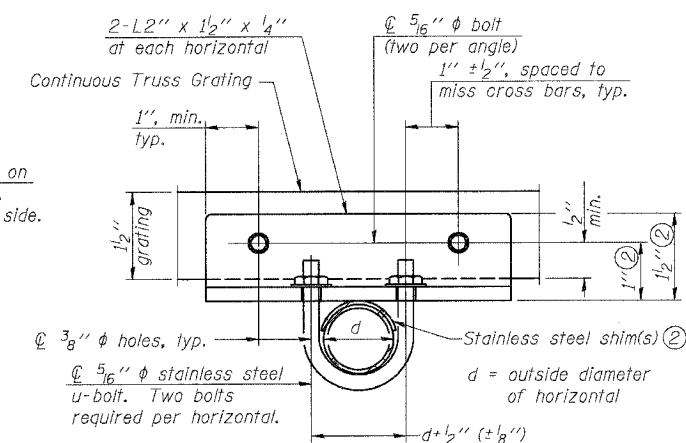
(Truss grating splice)  
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



SECTION T'-T'



DETAIL T  
(Continuous Truss grating)



SECTION T-T

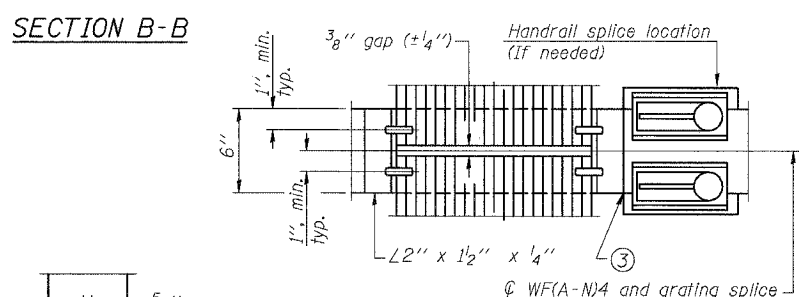
SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/8" centers and conform to ASTM B221 Alloy 6061-T6.  
Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

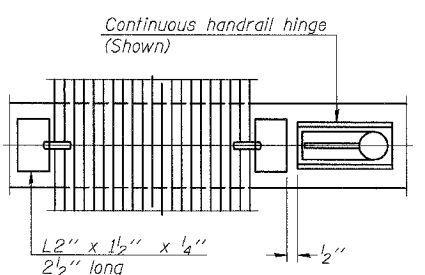
OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:  
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/8" centers.  
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

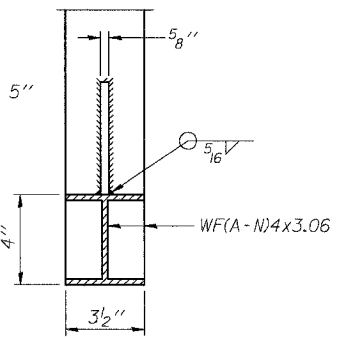
Structure Number	Station	A	B	C	D
ISO161094R057.1	3511+00	6 1/2"	4'-10 1/2"	5'-3"	10'-7 1/2"
ISO161094R057.4	3493+30	5"	3'-3"	4'-6"	8'-3"
ISO161094R056.8	3524+00	6"	4'-10 1/2"	5'-3"	10'-7 1/2"
ISO161094R056.67	3532+00	6"	4'-10 1/2"	5'-3"	10'-7 1/2"
ISO161094R056.47	3543+00	6"	4'-7 1/2"	5'-3"	10'-4 1/2"
ISO161094R056.02	3566+30	5 1/2"	5'-0"	4'-6"	10'-0"
ISO161094R055.46	3596+00	5 1/2"	3'-3"	4'-6"	8'-3"
ISO161094R055.08	3616+00	5 1/2"	5'-6"	4'-6"	10'-6"



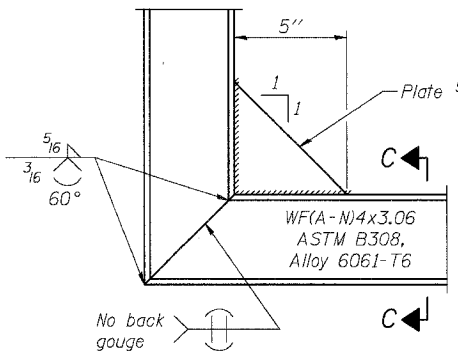
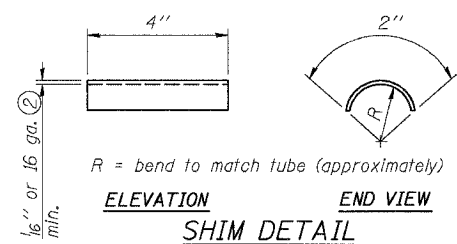
(AT WALKWAY GRATING SPLICE)



SECTION W-W  
(CONTINUOUS WALKWAY GRATING)



SECTION C-C



DESIGNED	AC
CHECKED	AS
DRAWN	RV
CHECKED	MSA

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE
ADDENDUM 2		8/04/06

OS-A-10

1-7-05

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF\*A-N\*4 and 1/4" extension bars. \*See Base Sheet OS-A-11.\*
- 1/2" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.

SGN-26

OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS

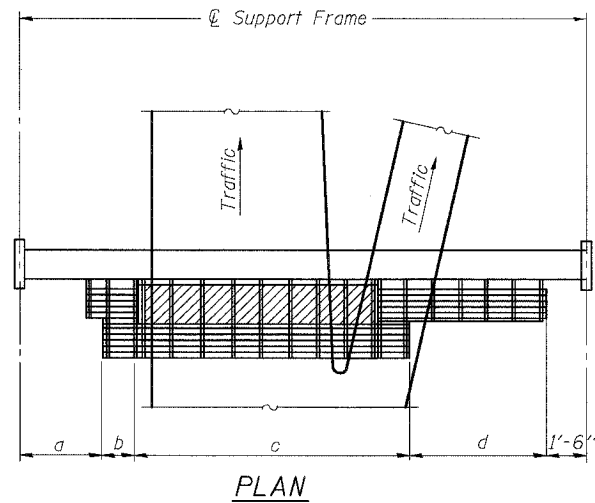
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

OVERHEAD SIGN STRUCTURES  
(SPAN)

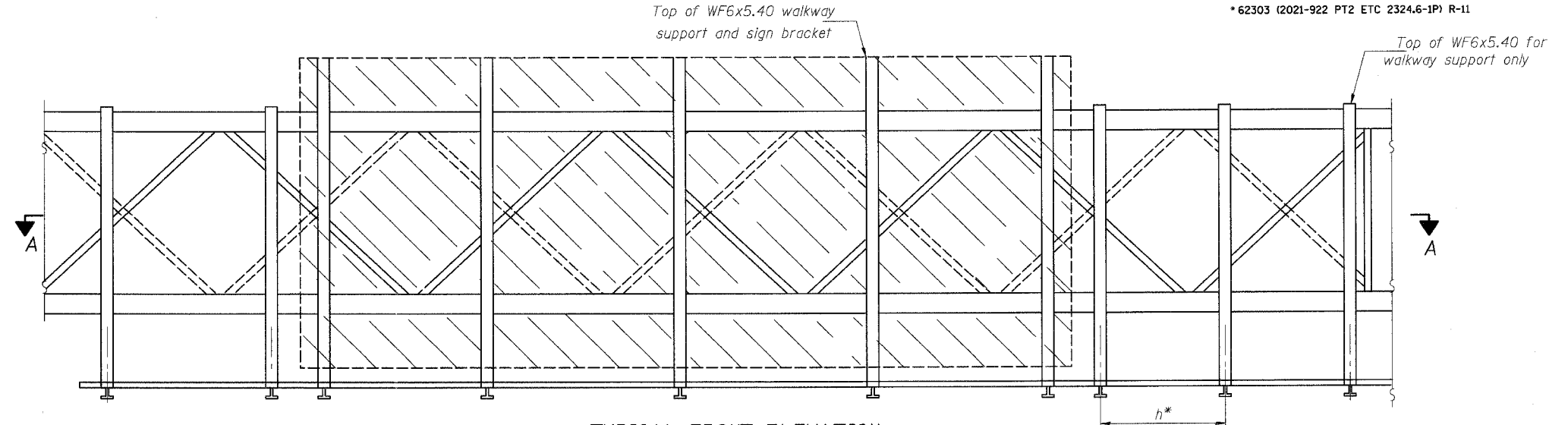
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. ---
S. S. I. #	*	COOK	588	278	---
F. A. 90/94					---
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

\*62303 (2021-922 PT2 ETC 2324.6-1P) R-11



**PLAN**  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath truss varies)



**TYPICAL FRONT ELEVATION**

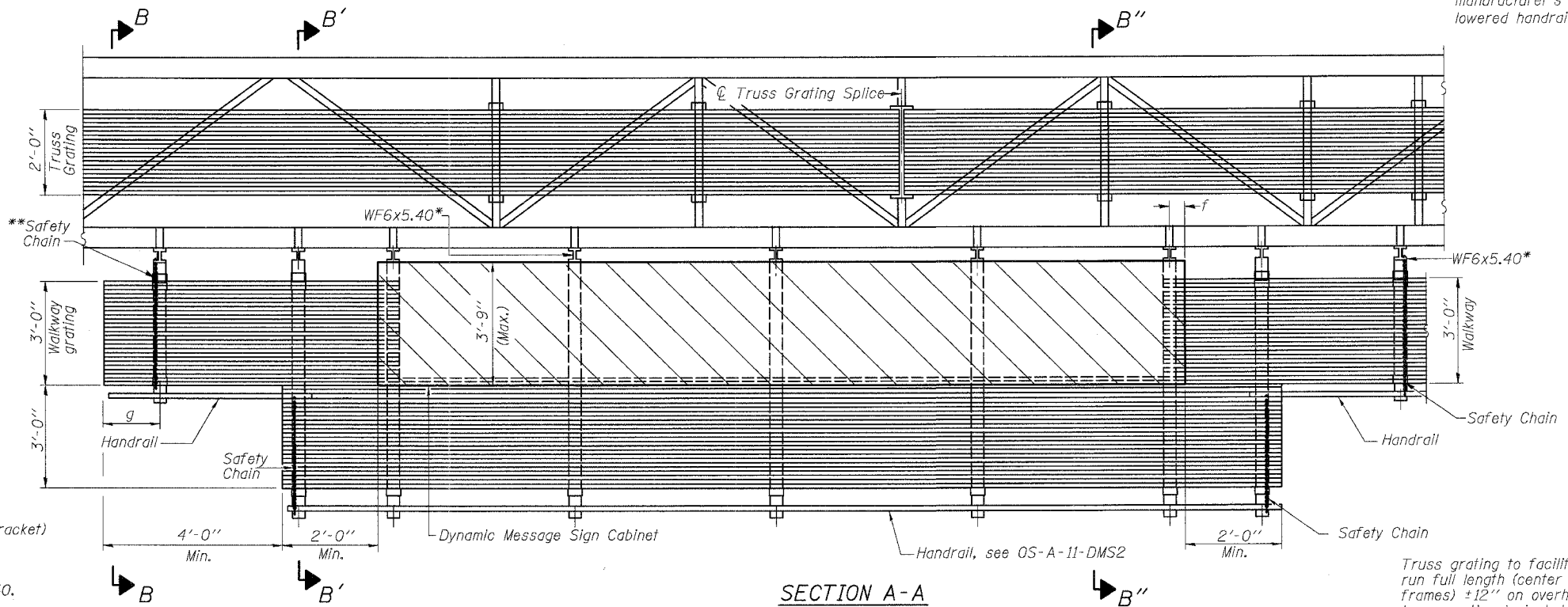
With handrail omitted for clarity.  
For Section B-B, see Base Sheet OS-A-10-DMS2  
For Section B'-B', and B''-B'', see Base Sheet OS-A-10a-DMS2

Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices, lowered handrail and DMS cabinet.

**BRACKET TABLE**

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
8'-0"	14'-0"	2
14'-0"	20'-0"	3
20'-0"	26'-0"	4
26'-0"	32'-0"	5
		6

Walkway and Truss Grating width dimensions are nominal and may vary  $\pm 1/2$ " based on available standard widths.



**SECTION A-A**

Notes: \*Space WF6x5.40 brackets for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to  $\phi$  of nearest bracket)

g = 12" maximum, 4" minimum (End of walkway grating to  $\phi$  of nearest support bracket)

h = 6'-0" maximum ( $\phi$  to  $\phi$  or walkway support brackets, WF6x5.40)

Maximum DMS weight = 4000LBS

3'-9" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.

\*\*If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11-DMS2

For Section B-B and Grating Splice Details see Base Sheet OS-A-10-DMS2.

For Handrail Splice Details see Base Sheet OS-A-11-DMS2.

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

Truss grating to facilitate inspection shall run full length (center to center of support frames)  $\pm 12$ " on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure"  
SGN-28

**OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS  
FOR DMS**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)

GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

**OVERHEAD SIGN STRUCTURES  
(SPAN)**

DESIGNED	AC
CHECKED	AS
DRAWN	RV
CHECKED	MSA

EXAMINED	19
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE
▲	ADDENDUM 2	8/04/06

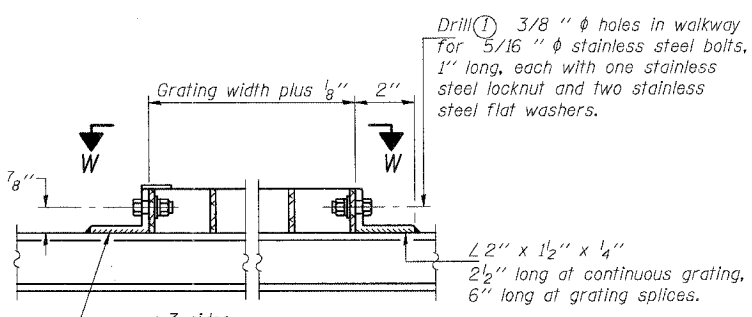
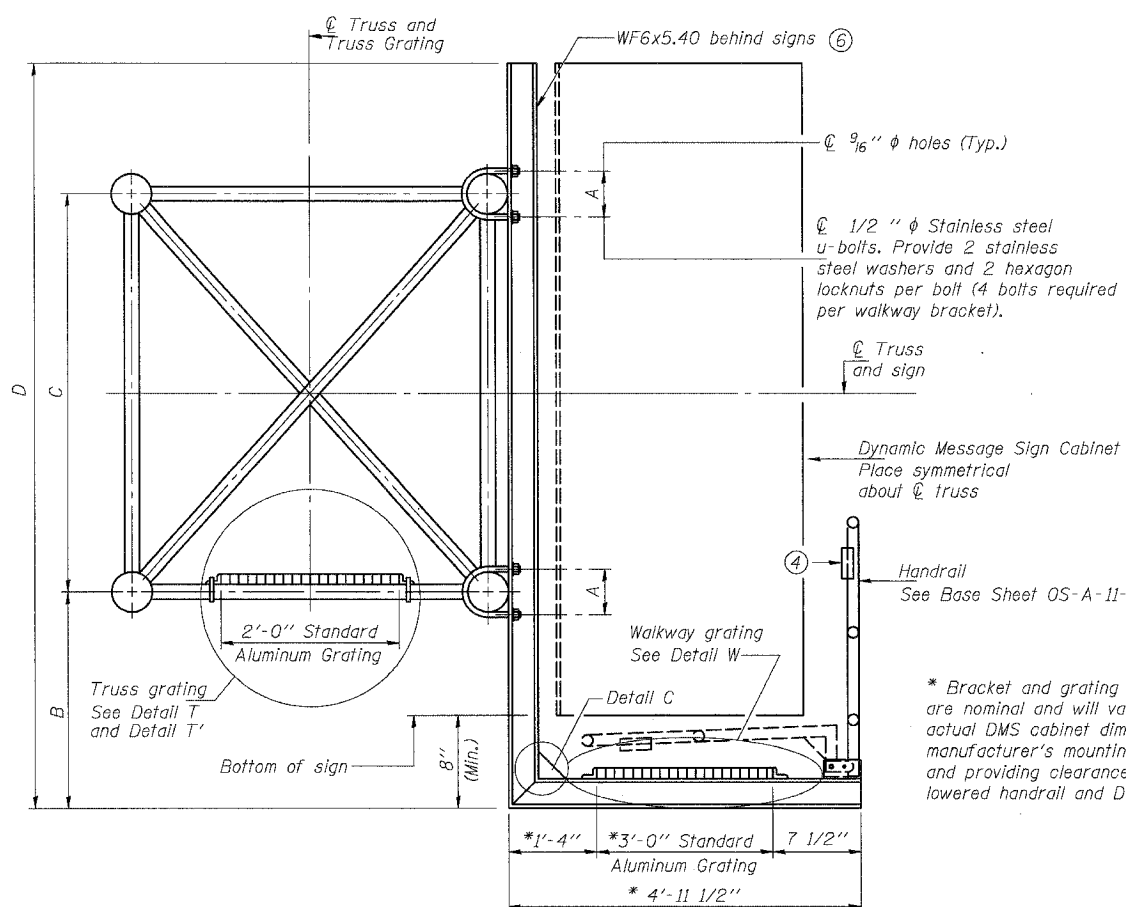
Structure Number	Station	a	b	c	d	Walkway Grating and Handrail Lengths
ISO161094R055.64	3586+50	16'-10"	3'-0"	29'-1"	32'-7"	76'-7 1/2"
ISO161094R057.8	3475+92.44	4'-0"	4'-0"	30'-1"	8'-5 1/16"	44'-0"

OS-A-9-DMS2 1/7/2005

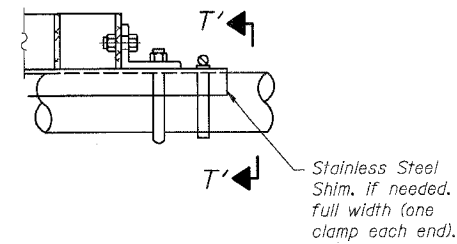
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	LETS	SHEET NO.	SHEET NO.
F.A. 90/94		COOK	588	279	

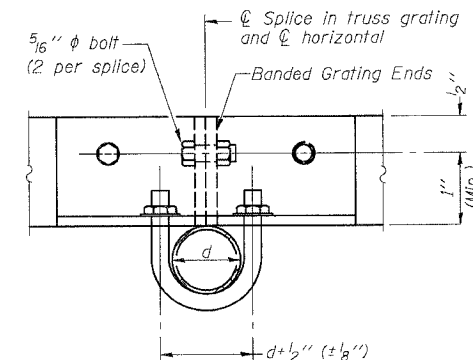
• 62303 (2021-922 PT2 ETC 2324.6-IP) R-11



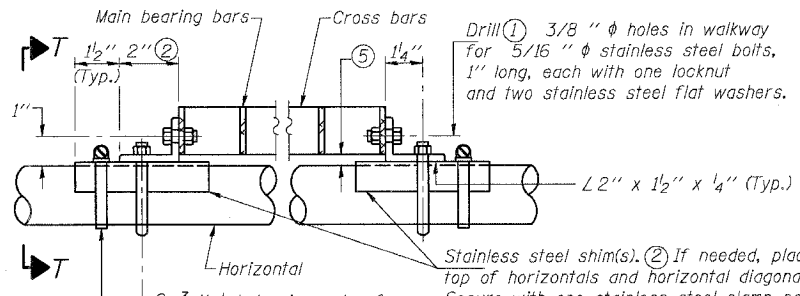
**DETAIL W**  
(Walkway grating)



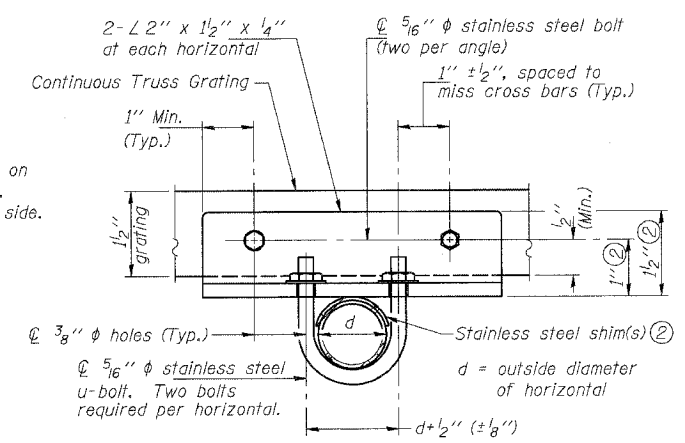
**DETAIL T'**  
(Truss grating splice)  
Details not shown same as Detail T.  
Alternate materials may be used subject to the Engineer's review and approval.



**SECTION T'-T'**



**DETAIL T**  
(Continuous Truss grating)



**SECTION T-T**

\* Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices, and providing clearance between the lowered handrail and DMS cabinet.

**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.  
Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "4" sections for main bearing bars shall meet the following requirements:  
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	B	C	D
ISO161094R055.64	3586+50	7 1/2"	1'-5"	7'-0"	9'-2"
ISO161094R057.8	3475+92.44	7 1/2"	1'-5"	7'-0"	9'-2"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF6 and 1/4" extension bars. (See Base Sheet OS-A-11-DMS2.)
- 5/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2" max. to align walkway, allow for camber, etc.
- Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.

SGN-29

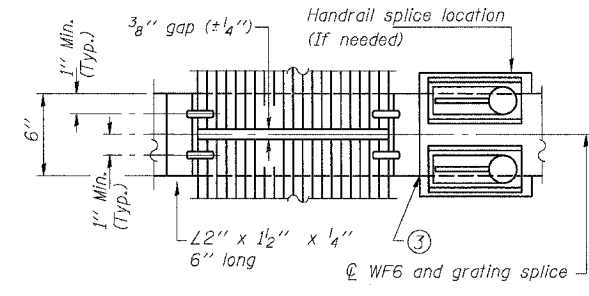
**OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS  
FOR DMS**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)

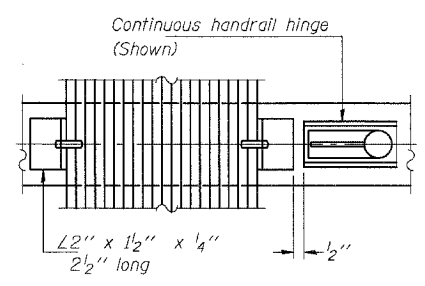
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

**OVERHEAD SIGN STRUCTURES  
(SPAN)**

**SECTION B-B**

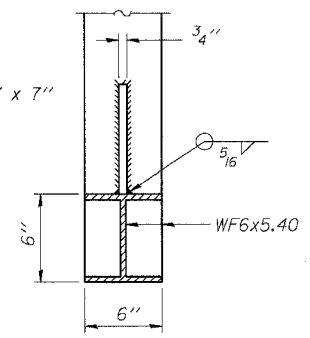


**(AT WALKWAY GRATING SPLICE)**

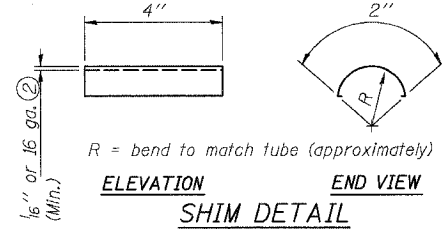
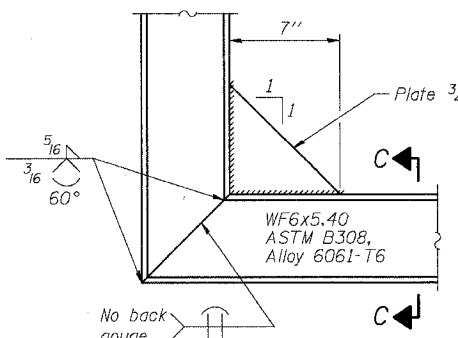


**(CONTINUOUS WALKWAY GRATING)  
SECTION W-W**

**SECTION C-C**



**DETAIL C**



**SHIM DETAIL**

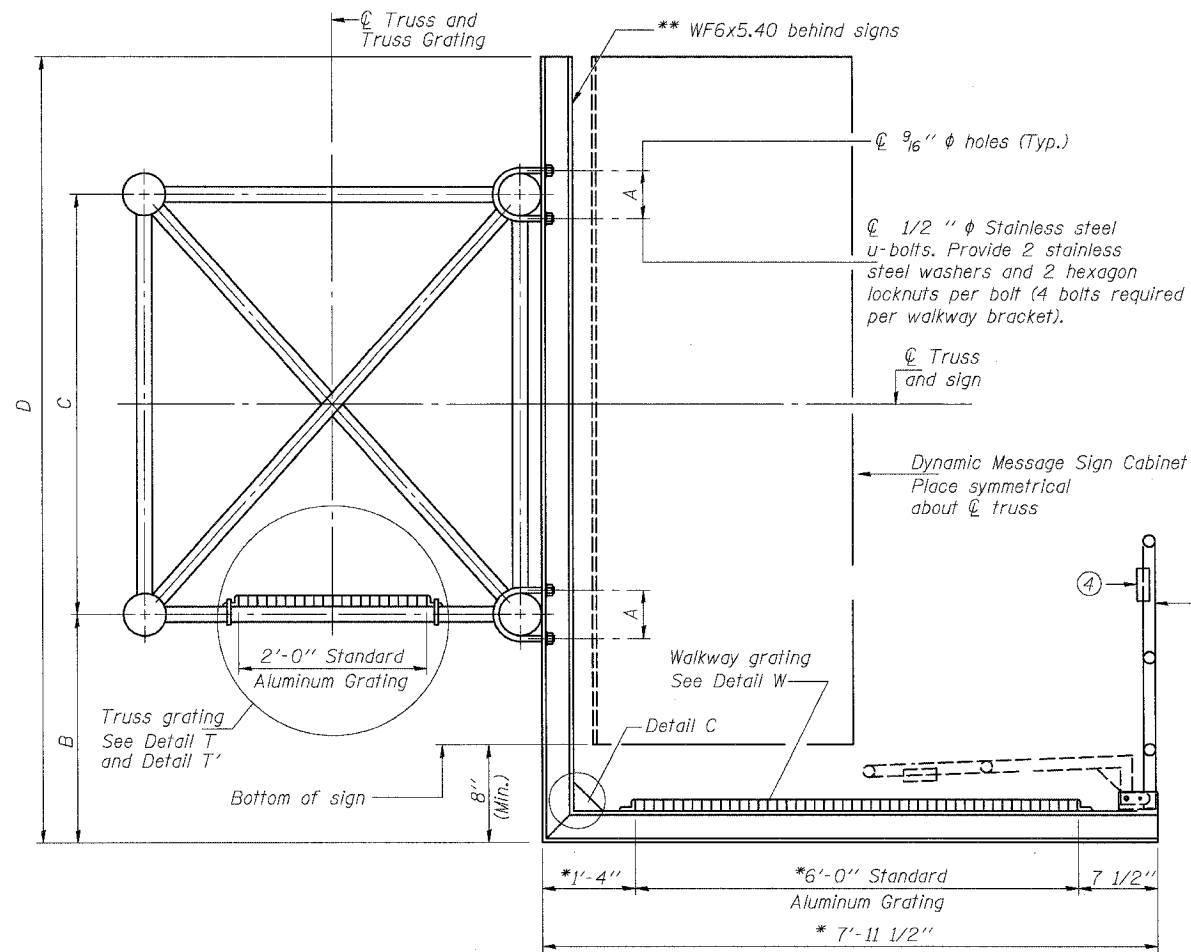
DESIGNED	AC
CHECKED	AS
DRAWN	RV
CHECKED	MSA

NUMBER	REVISION	DATE
19		
20	ADDENDUM 2	8/04/06

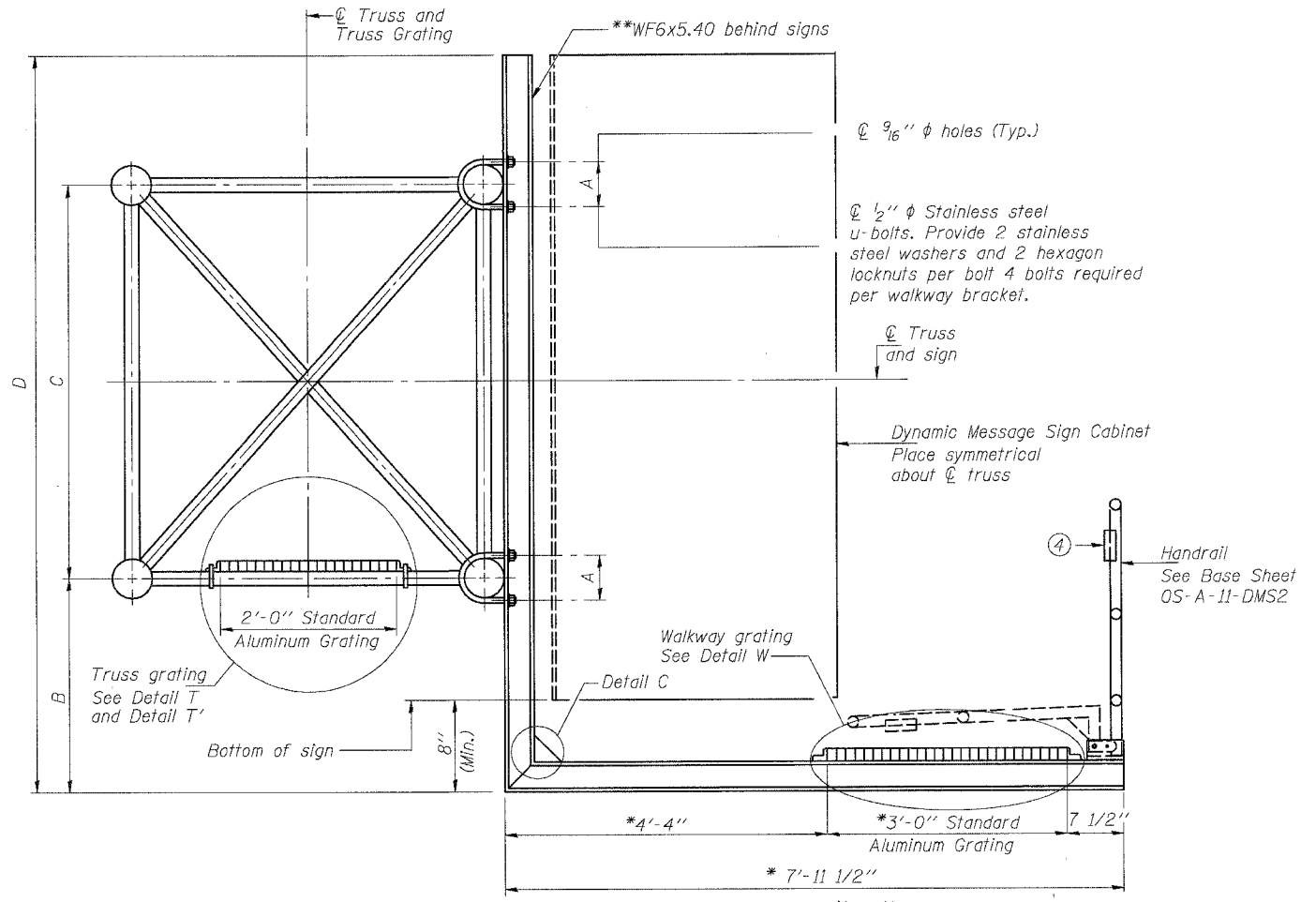
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. ---
S. I. #	*	COOK	588	280	--- SHEETS
P.A. 99/94					

\* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11



SECTION B'-B'



SECTION B''-B''

\* Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices, and providing clearance between the lowered handrail and DMS cabinet.

\*\* Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.

Note:  
For dimensions "A" to "D" and remaining details, see sheet OS-A-10-DMS2

DESIGNED	AC	19
CHECKED	AS	EXAMINED
DRAWN	RV	PASSED
CHECKED	MSA	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE
△	ADDENDUM 2	8/04/06

SGN-30

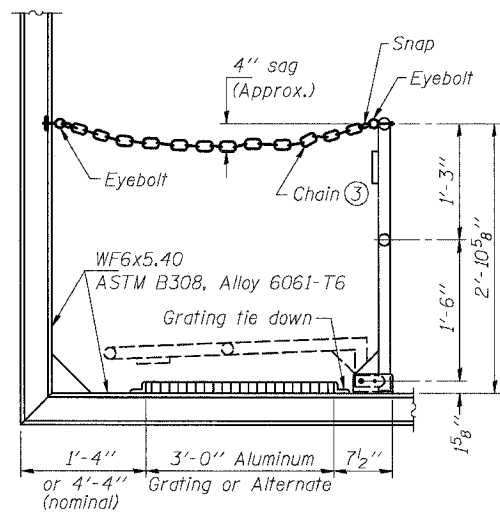
**OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS  
FOR DMS**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
**OVERHEAD SIGN STRUCTURES  
(SPAN)**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATE SHEETS	SHEET NO.	SHEET NO. ---
S.B.I. #					--- SHEETS
90/94		COOK	588	281	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

\*62303 (2021-922 PT2 ETC 2324.6-1P) R-11

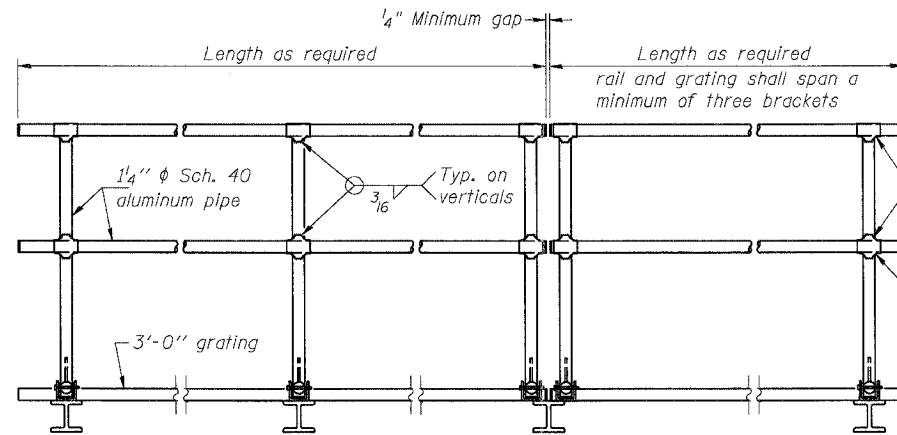


**SIDE ELEVATION**

(Showing safety chain w/o sign)

**HANDRAIL DETAILS**

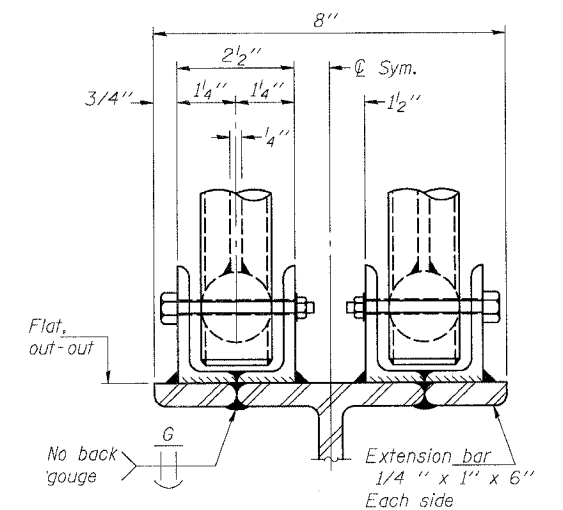
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



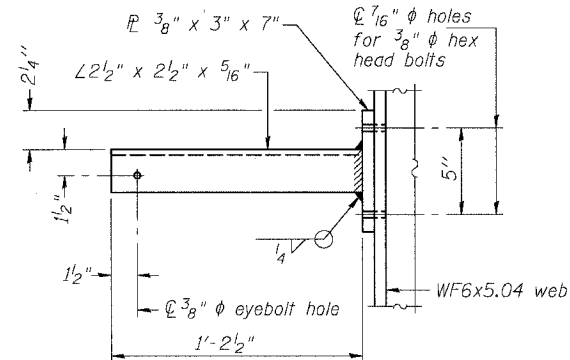
**FRONT ELEVATION**

② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" φ hole in fitting for 3/8" φ bolt. Field drill 7/16" φ hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" φ holes on top rail at ends only.)

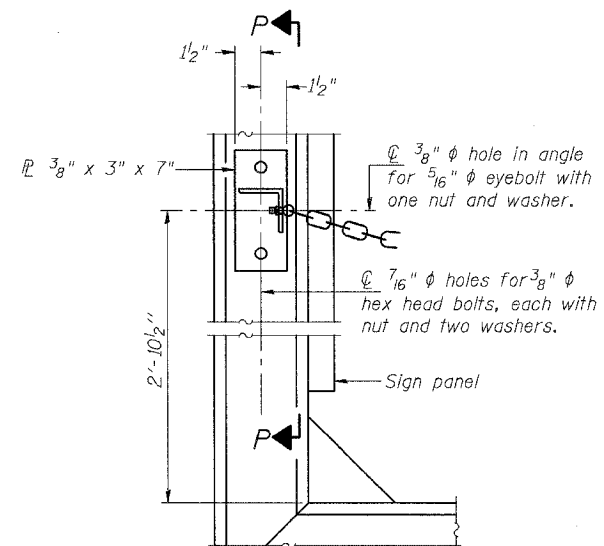
① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)



**ELEVATION AT HANDRAIL JOINT** ④

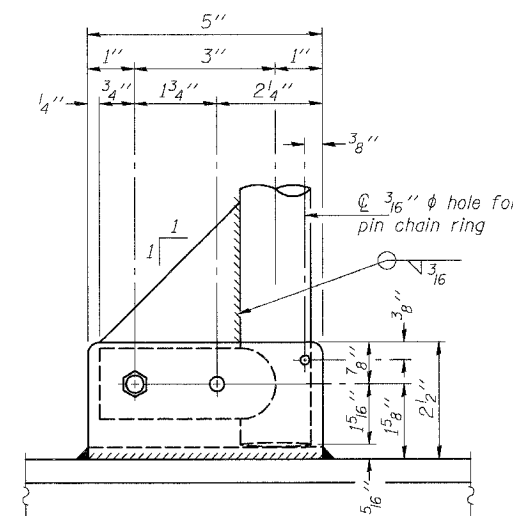


**SECTION P-P**

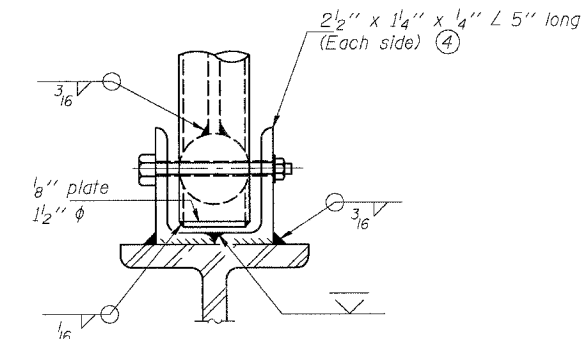


**ALTERNATE SAFETY CHAIN ATTACHMENT**

(With Sign Present)  
Items not shown same as "Side Elevation" of "Handrail Details"

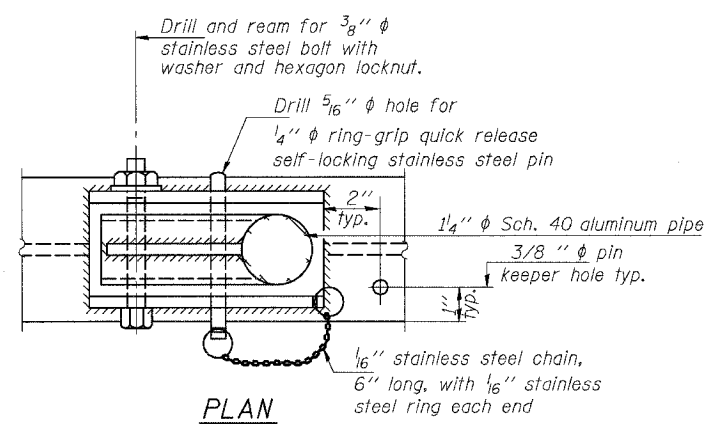


**SIDE ELEVATION**

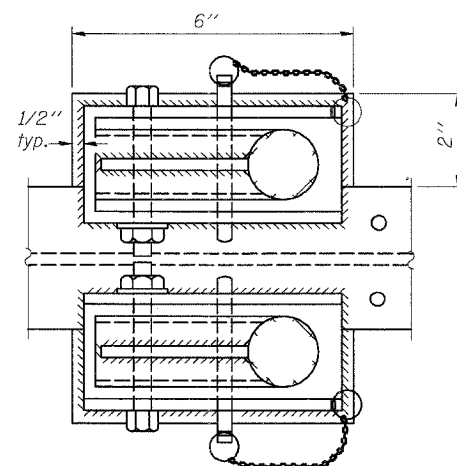


**FRONT ELEVATION**

See "ELEVATION" at right for dimensions.

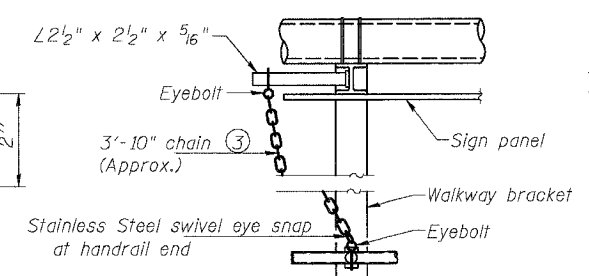


**PLAN  
DETAIL E HANDRAIL HINGE**



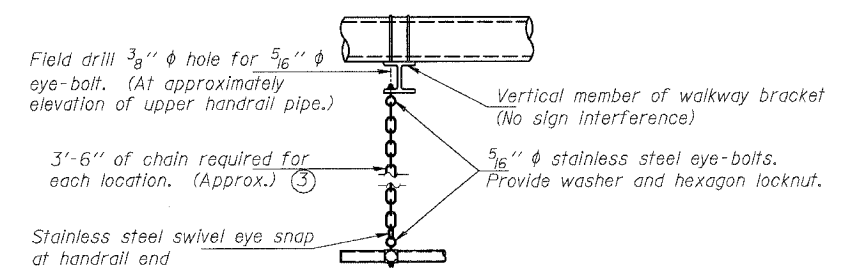
**PLAN AT HANDRAIL JOINT**

Details not shown same as "PLAN"



**ALTERNATE SAFETY CHAIN ATTACHMENT**

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)



**SAFETY CHAIN**

One required for each end of each walkway.

DESIGNED	AC
CHECKED	AS
DRAWN	RV
CHECKED	MSA

EXAMINED	19	ENGINEER OF BRIDGE DESIGN
PASSED		ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE
▲	ADDENDUM 2	8/04/06

SGN-31

**OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM HANDRAIL DETAILS  
FOR DMS**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)

GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

**OVERHEAD SIGN STRUCTURES  
(SPAN)**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

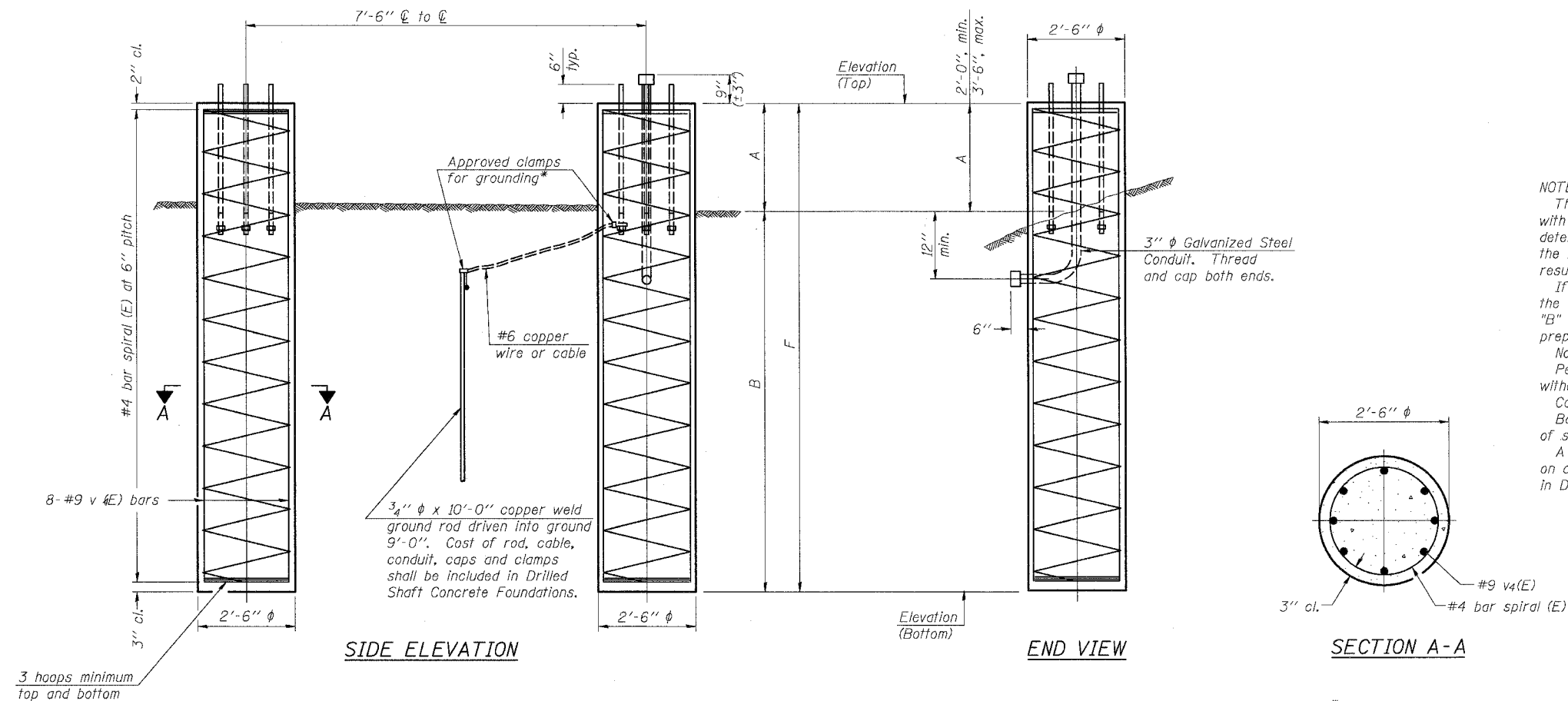
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
94/90	#	COOK	588	282	- SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		
* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11					

For anchor rod size and placement, see Support Frame Detail Sheet.

\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

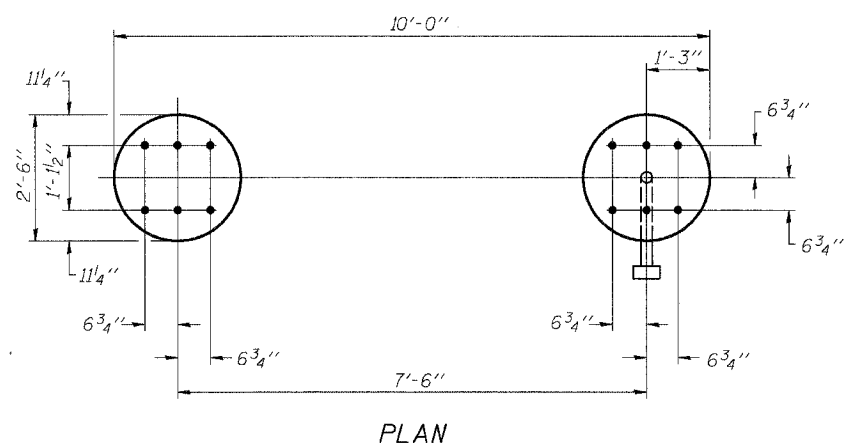
BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
#4 (E)	16	#9	F less 5"	
#4 bar spiral (E) - see Side Elevation				



NOTES:  
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.  
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.  
No sonotubes or decomposable forms shall be used below the lower conduit entrance.  
Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.  
Concrete shall be placed monolithically, without construction joints.  
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.  
A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

\* Foundation built in Contract 62302



Structure Number	Station	Left Foundation *					Right Foundation			Class SI Concrete (Cu. Yds.)		
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A		B	F
ISO161094R057.4	3493+30	---	---	---	---	---	11.98'	-3.52'	2.0'	13.5'	15.5'	5.6
ISO161094R056.02	3566+30	---	---	---	---	---	-0.25'	-17.25'	2.50'	14.50'	17.00'	6.2
ISO161094R055.46	3596+00	---	---	---	---	---	15.70'	-0.30'	2.50'	13.50'	16.00'	5.8
ISO161094R055.08	3616+00	---	---	---	---	---	7.00'	-10.00'	2.50'	14.50'	17.00'	6.2

SGN-32

DESIGNED	AC
CHECKED	AS
DRAWN	RV
CHECKED	MSA

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE
▲	ADDENDUM 2	8/04/06

DETAILS FOR 8"  $\phi$  SUPPORT FRAME  
TYPE I-A TRUSS

OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
OVERHEAD SIGN STRUCTURES  
(SPAN)

OS4-F2

1-7-05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

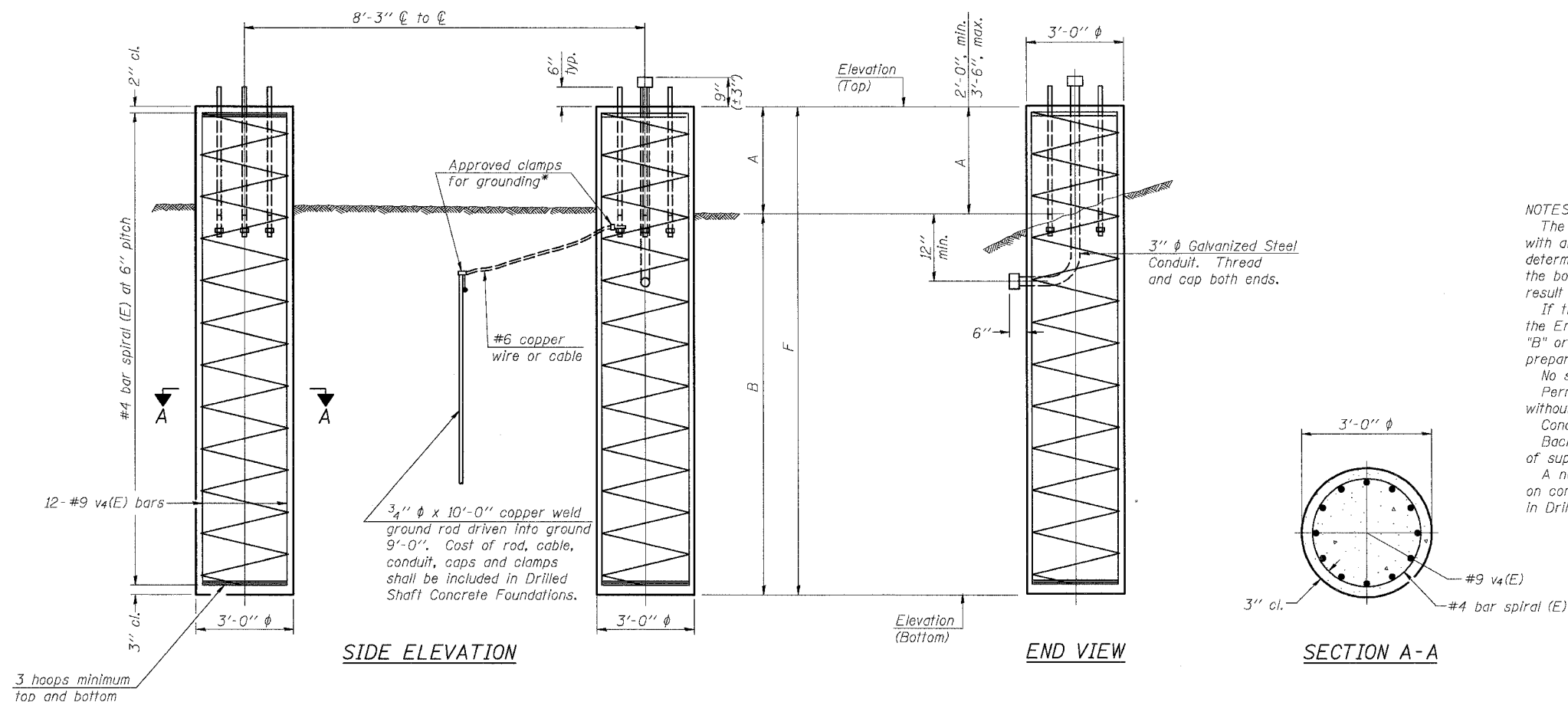
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
94/90	*	COOK	588	283	- SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		
* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11					

For anchor rod size and placement, see Support Frame Detail Sheet.

\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				



NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

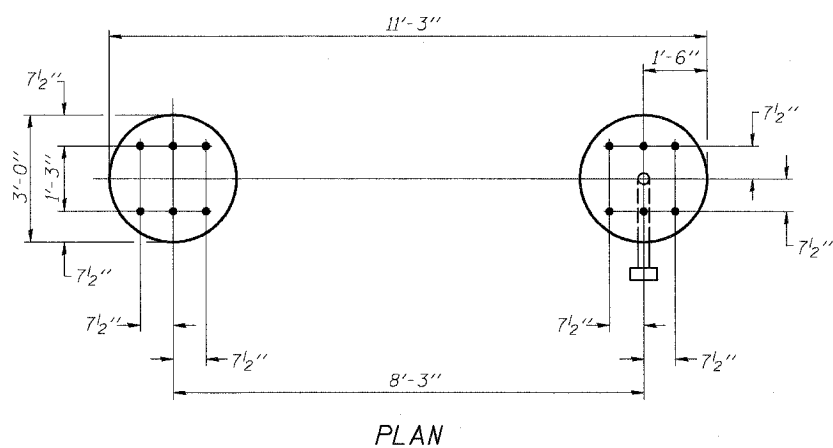
No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cast included in Drilled Shaft Concrete Foundation.

\* Foundation built in Contract 62302



Structure Number	Station	Elevation Top	Elevation Bottom	Left Foundation *			Right Foundation			Class SI Concrete (Cu. Yds.)		
				A	B	F	Elevation Top	Elevation Bottom	A		B	F
ISO161094R057.1	3511+00	9.06'	-11.11'	2.67'	17.5'	20.17'	12.48'	-7.03'	2.00'	17.5'	19.5'	20.8
ISO161094R056.8	3524+00	---	---	---	---	---	5.92'	-13.58'	2.00'	17.5'	19.50'	10.2
ISO161094R056.67	3532+00	---	---	---	---	---	8.80'	-11.20'	2.50'	17.50'	20.00'	10.5
ISO161094R056.47	3543+00	---	---	---	---	---	10.45'	-9.55'	2.50'	17.50'	20.00'	10.5

SGN-33

DESIGNED	AC
CHECKED	AS
DRAWN	RV
CHECKED	MSA

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE
ADDENDUM 2		8/04/06

DETAILS FOR 10"  $\phi$  SUPPORT FRAME  
TYPE I-A or II-A TRUSS

OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)  
OVERHEAD SIGN STRUCTURES  
(SPAN)

OS4-F3

1-7-05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	284
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	

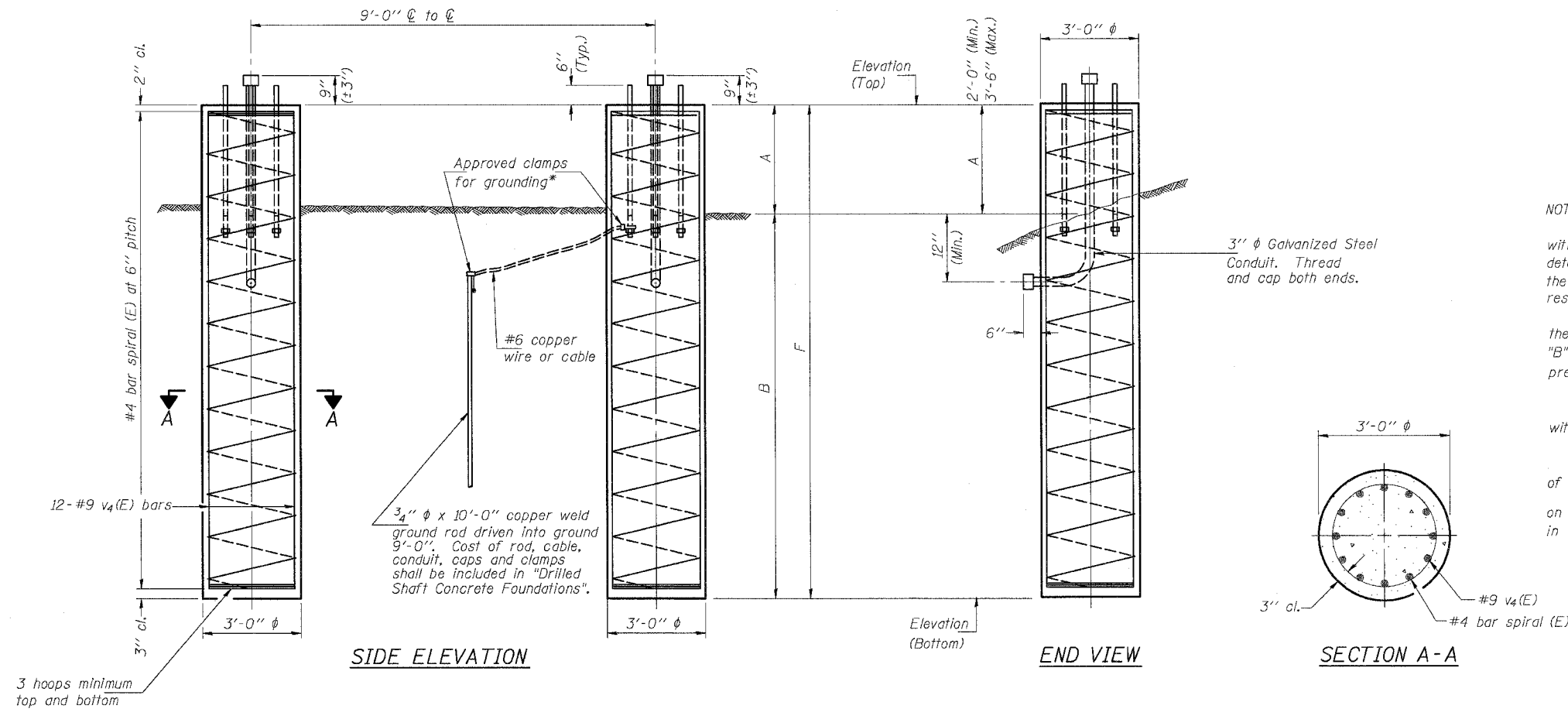
#OVER30

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	
#4 bar spiral (E) - see "SIDE ELEVATION"				

For anchor rod size and placement, see Support Frame Detail Sheet.

\*Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.



NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Structure Number	Station	Left Foundation			Right Foundation			Class SI Concrete (Cu. Yds.)				
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F
ISO16I094R057.8	3475+92.44	---	---	---	---	---	2.11'	-19.77'	3.88'	18.00'	21.88'	11.5
ISO16I094R055.64	3586+50	---	---	---	---	---	9.80'	-10.70'	2.50'	18.00'	20.50'	10.7

SGN-34

OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

OVERHEAD SIGN STRUCTURES  
(SPAN)

DESIGNED	AC	20
CHECKED	AS	EXAMINED
DRAWN	RV	PASSED
CHECKED	MSA	

NUMBER	REVISION	DATE
ADDENDUM 2		8/04/06

DETAILS FOR 12"  $\phi$  SUPPORT FRAME  
TYPE III-A TRUSS

MODIFIED BY CTE ENGINEERS, INC. FROM OS4-F4 1/7/05

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
F.A.I. RTE. 90/94		COOK	588	285
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

\* 62303 (2021-922 PT2 ETC 2324.6-IP) R-11

**NOTES:**

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

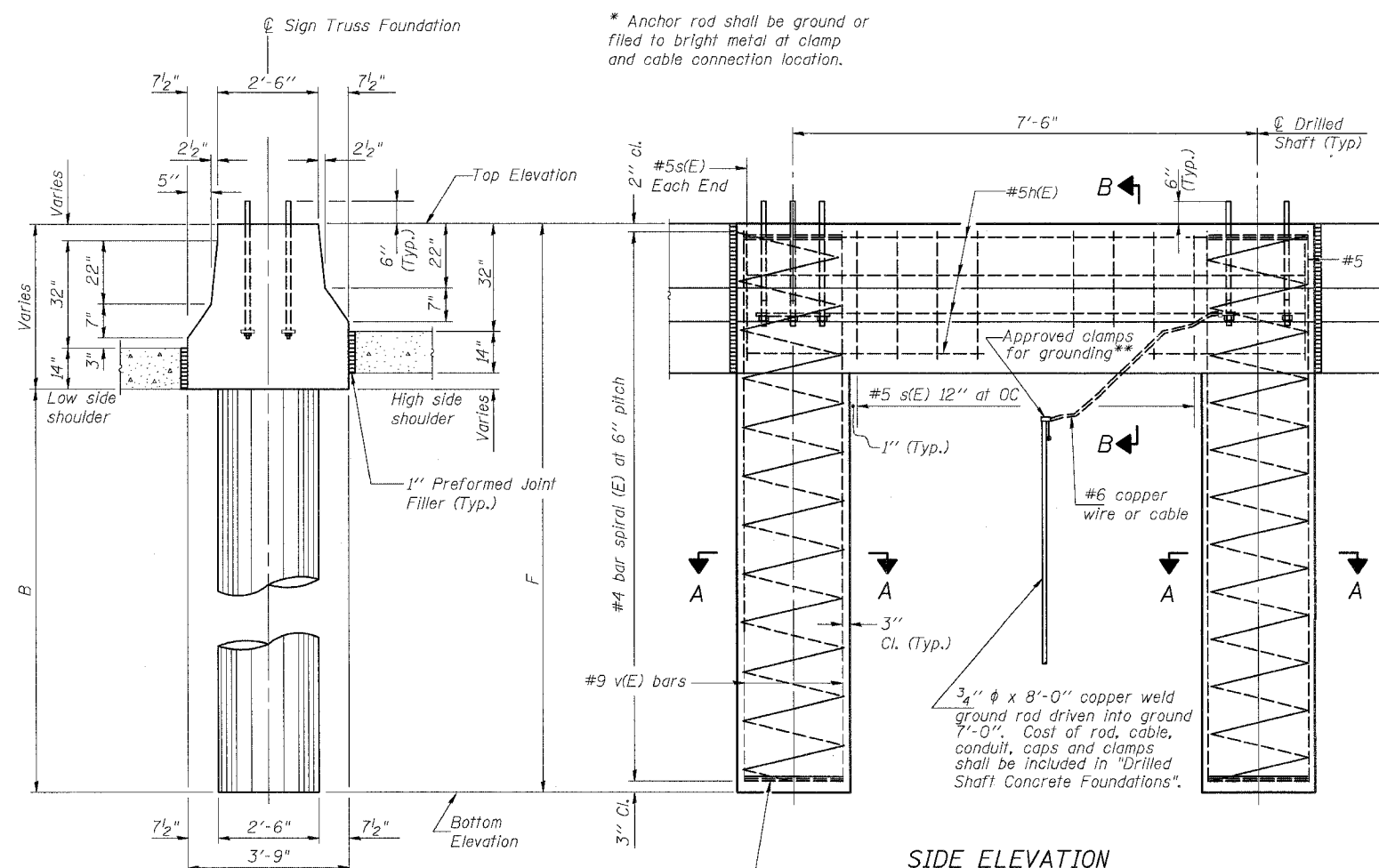
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Face of median support foundation shall match dimensions of permanent barrier wall F shape.

**BAR LIST - EACH FOUNDATION**

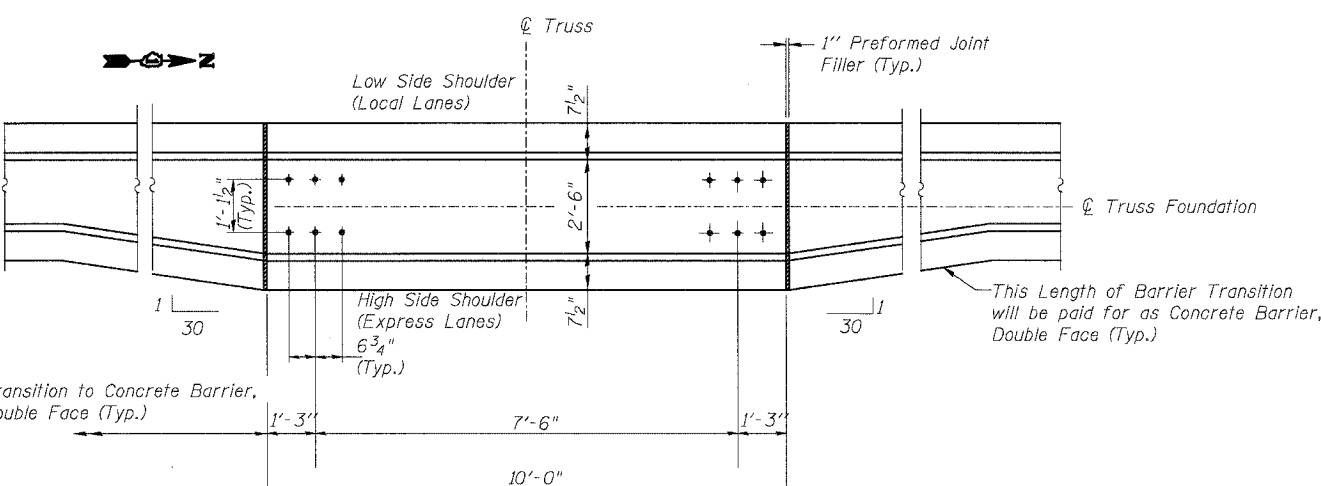
Bar	Number	Size	Length	Shape
h(E)	10	#5	9'-8"	—
s(E)	9	#5	Varies	□
v(E)	24	#9	F less 0'-5"	—
#4(E) bar spiral - see Side Elevation				



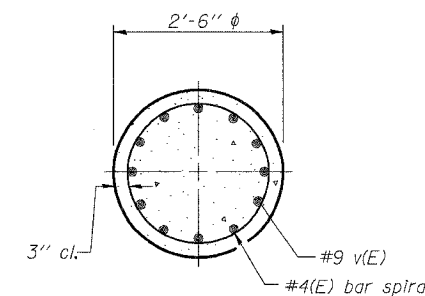
**SIDE ELEVATION**

Concrete Foundation poured monolithically with no construction joint.

**SOUTH END VIEW**



**PLAN**



**SECTION A-A**

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
ISO16I094R057.4	3493+30.00	10.05'	-8.08'	13.5'	18.13'	----	----	----	----	10.4

MODIFIED BY CTE ENGINEERS, INC. FROM OS4-MED

SGN-35

**OVERHEAD SIGN STRUCTURES  
MEDIAN SUPPORT FOUNDATION DETAILS**

REVISIONS	
NAME	DATE
ADDENDUM 2	8/04/06

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
PROPOSED IMPROVEMENT  
GARFIELD BLVD TO 31ST STREET  
DOUBLE FACE MEDIAN SUPPORT FOUNDATION

6:33:28 PM 8/7/2006

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	588	287
FED. ROAD DIST. NO. 1		ALLIANCE	FED. AID PROJ. EST.	
		(1818, ETC. 2324.6-1P1 R-11)		62303

NOTES:  
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

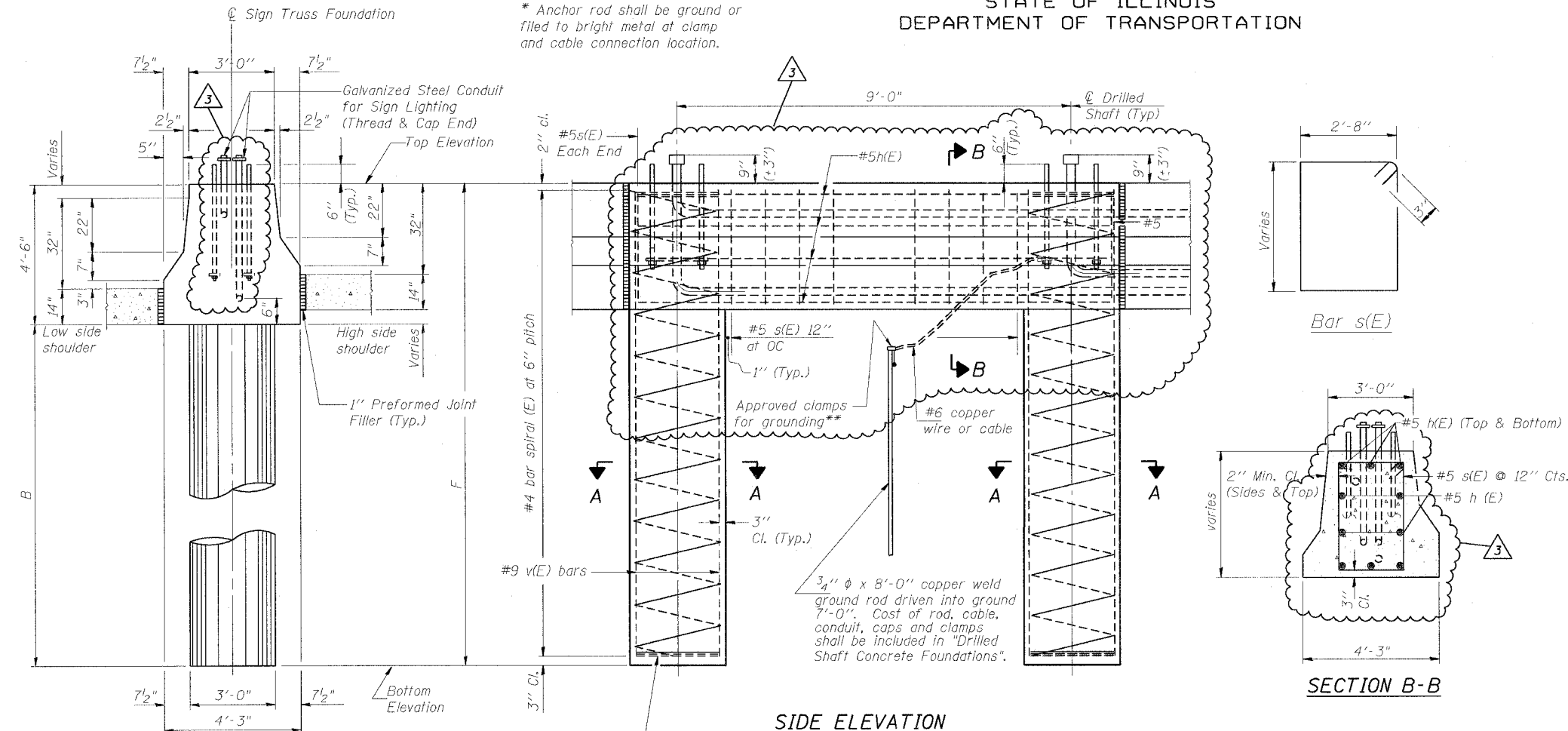
No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Face of median support foundation shall match dimensions of permanent barrier wall F shape.

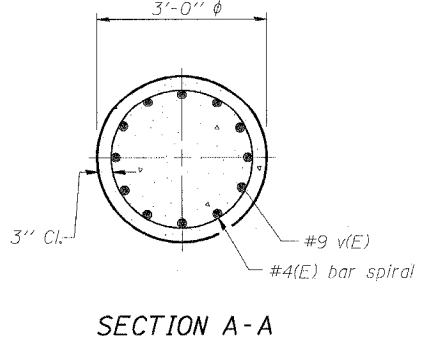
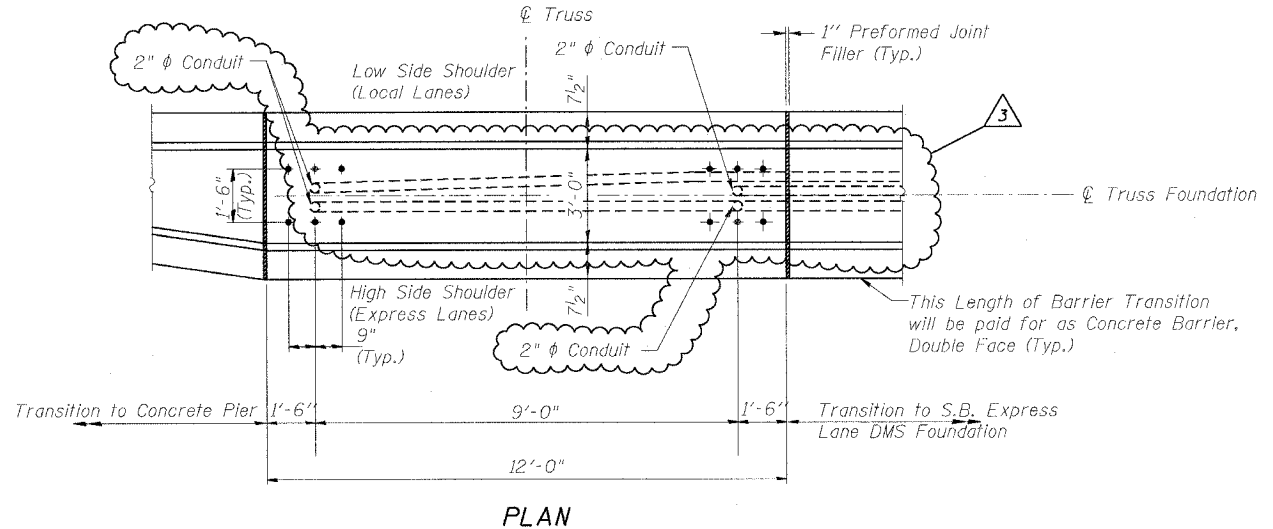


BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	10	#5	11'-8"	
s(E)	9	#5	Varies	□
v(E)	24	#9	F less 0'-5"	
#4(E) bar spiral - see Side Elevation				

LEFT FOUNDATION USES SINGLE FACE MEDIAN SUPPORT FOUNDATION

Structure Number	Station	Left Foundation				Right Foundation				Class SJ Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
ISO161094R057.8	3475+92.44	1.83'	-20.00'	18.0'	21.83'	----	----	----	----	15.8



DESIGNED - JSS	20
CHECKED - MJP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - MJP	ENGINEER OF BRIDGES AND STRUCTURES

SGN-35

### OVERHEAD SIGN STRUCTURES MEDIAN SUPPORT FOUNDATION DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
PROPOSED IMPROVEMENT

#### DOUBLE FACE MEDIAN SUPPORT FOUNDATION

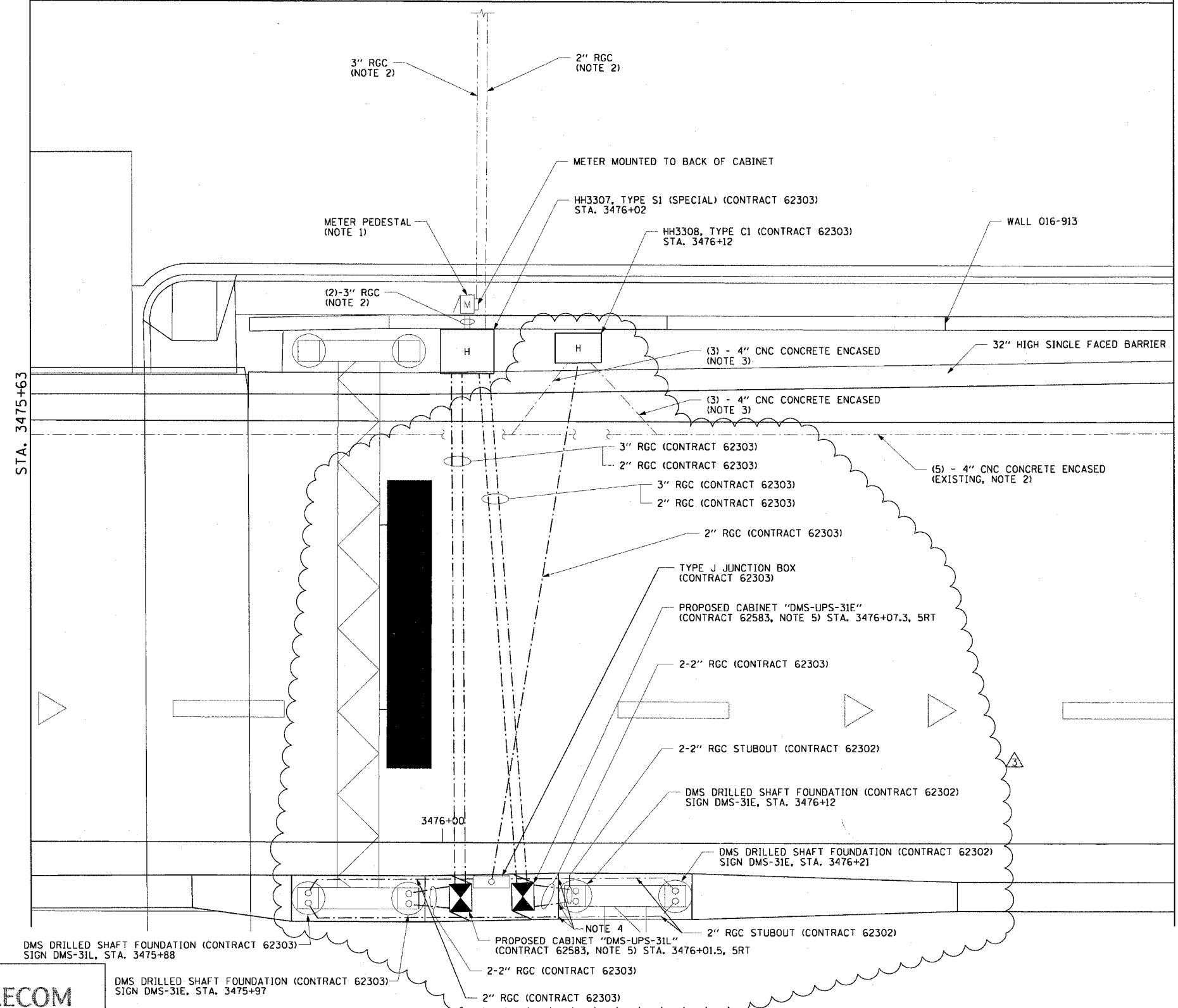
REVISIONS		
NAME	DATE	
Addendum 3	8/11/06	

MODIFIED BY CTE ENGINEERS, INC. FROM OS4-MED

F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	COOK	588	343
STA. 561+18 TO STA. 562+20			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
62303 * (2021-922 PT2 ETC 2324.6-1P) R-11			

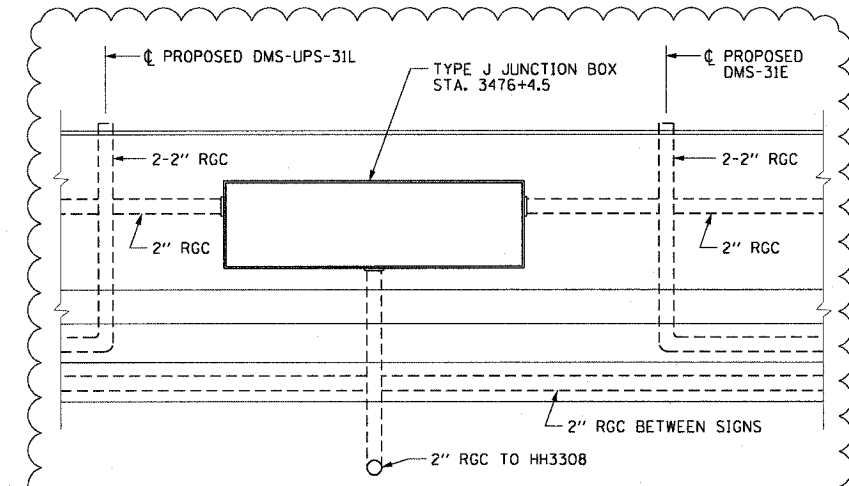
WELLS STREET

562+00

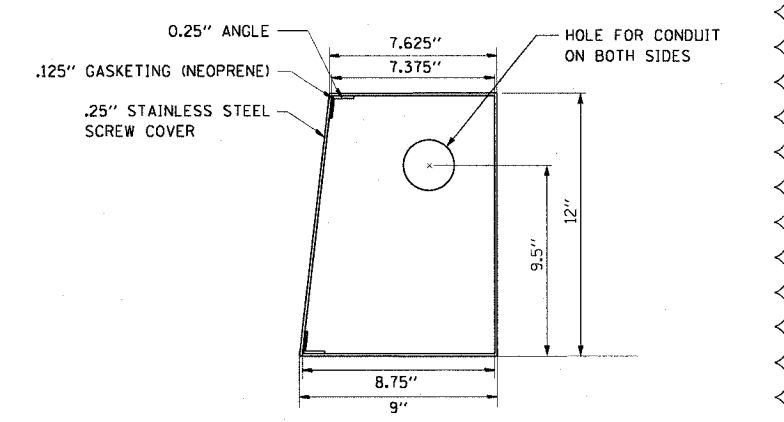


NOTES:

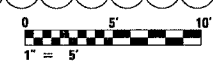
- METER PEDESTAL INSTALLED IN CONTRACT 62583.
- RIGID GALVANIZED CONDUITS INSTALLED IN CONTRACT 62586.
- CNC CONCRETE ENCASED DUCTBANK INSTALLED IN CONTRACT 62586.
- CONNECT PROPOSED CONDUITS TO CONDUIT STUB-OUTS PROVIDED IN DMS SUPPORT FOUNDATION INSTALLED IN CONTRACT 62302.
- COORDINATE EXACT STUB-UP LOCATION FOR CONDUITS FOR DMS CABINETS WITH CONTRACT 62583.
- PROVIDE FOUR 24" LONG, 3/4" DIAMETER ANCHOR RODS FOR EACH DMS CABINET. COORDINATE LOCATION WITH CONTRACT 62583.



1 BARRIER WALL DUCT DETAIL ELEVATION  
NOT TO SCALE



2 SPECIAL JUNCTION BOX TYPE "J" - SIDE VIEW



REVISIONS	
NAME	DATE
ADDENDUM 3	8-11-06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

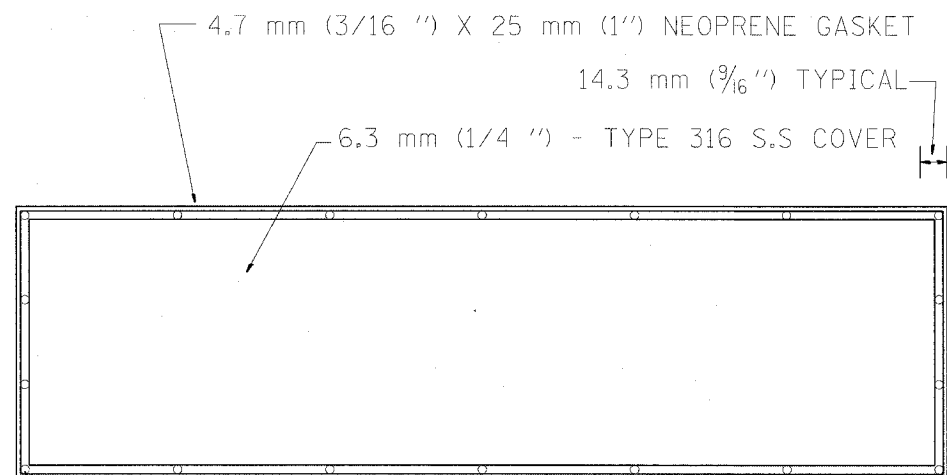
55TH STREET DETAIL SKETCH

SCALE: 1"=5'  
DATE: June 9, 2006  
DRAWN BY: BMW  
CHECKED BY: BMW

CTE | AECOM

08/10/2006 09:28:08 AM

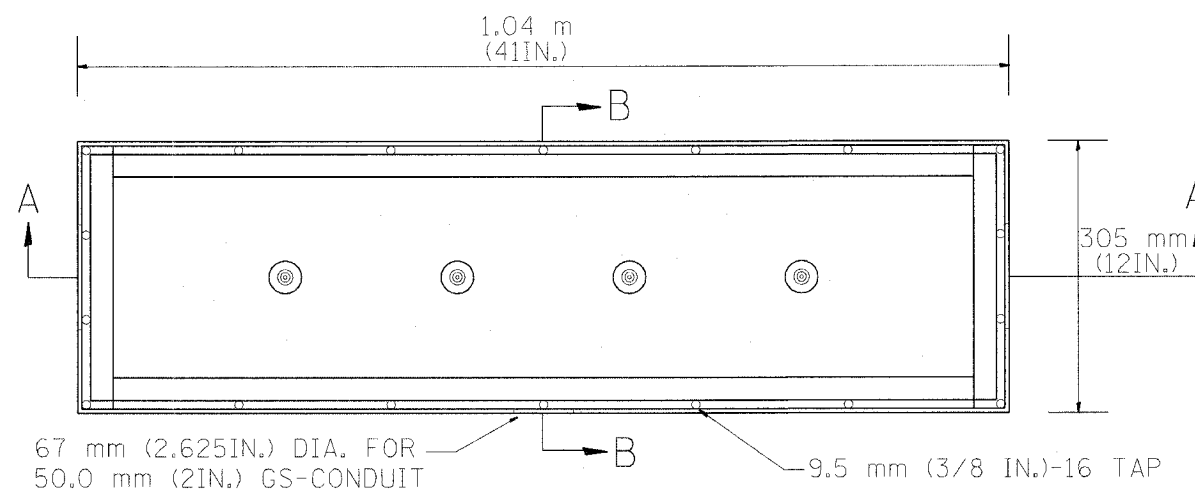
F.A.I. RITE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	588	343A
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			



DRILL AND COUNTERSINK TOP OF COVER FOR  
9.5 mm (3/8 inch) 16 X 19 mm (3/4 inch)  
FLAT HEAD STAINLESS STEEL SLOTTED SCREWS

BACK VIEW

STAINLESS STEEL COVER WITH NEOPRENE GASKET



TOP VIEW

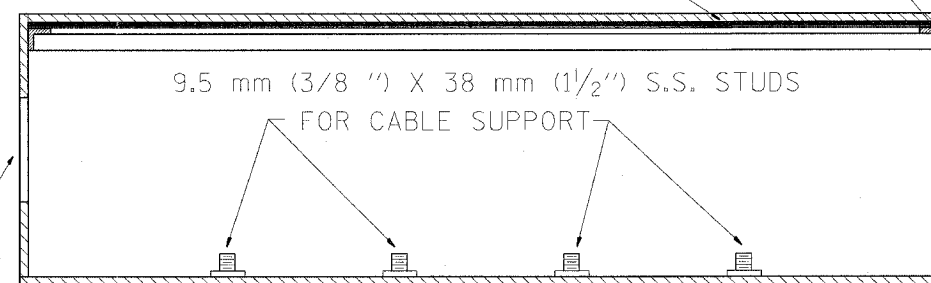
STAINLESS STEEL JUNCTION BOX TYPE "J"



SIDE VIEW

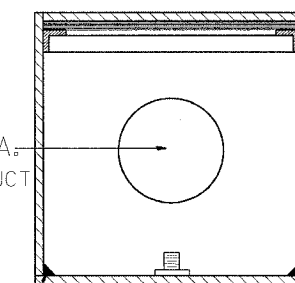
STAINLESS STEEL COVER

25 mm (1 inch) X 25 mm (1 inch) X 63 mm (1/4 inch) S.S. ANGLE  
CONTINUOUSLY WELDED AND LEAKPROOF  
NEOPRENE GASKET



SIDE VIEW SECTION A-A

305 mm (12 IN.)



SIDE VIEW SECTION B-B

NOTE:

JUNCTION BOX TO BE CONSTRUCTED OF  
6.3 mm (1/4 IN.) TYPE 316 STAINLESS STEEL  
ALL WELDS SHALL BE CONTINUOUS AND LEAKPROOF  
ALL COVERS SHALL BE UNIVERSAL IN FIT.

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 4.57 m (15ft.) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J" AND FOR A SMOOTH TRANSITION OF 100 mm (4IN.) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

CTE | AECOM

REVISIONS	
NAME	DATE
ADDENDUM 3	8-11-06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
CONCRETE  
BARRIER WALL JUNCTION BOX  
TYPE "J"

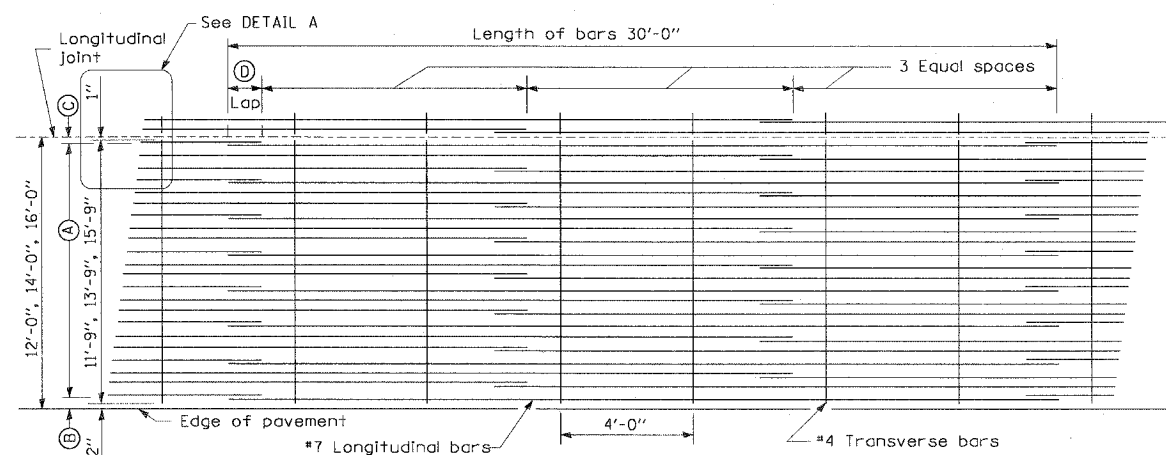
SCALE: NOT TO SCALE  
DATE: August 11, 2006

DRAWN BY: HAR  
CHECKED BY: JPC

EI-110A

08/09/2006 03:04:35 PM

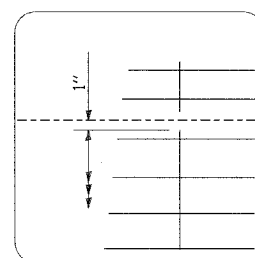
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	361
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	(2021-922 PT2 ETC 2324.6-1P) R-11			



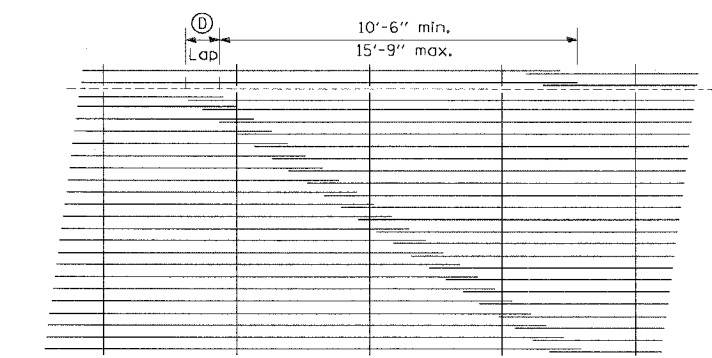
LAP DETAIL I

Pavement Width	Bar Size	Pavement Thickness	(A) (Approx. Spacing)	(B)	(C)	(D)
12 feet	#7	14"	23 spaces (24 bars) @ 6"	3 1/2"	3"	26"
14 feet	#7	14"	27 spaces (28 bars) @ 6"	3 1/2"	3"	26"
16 feet	#7	14"	31 spaces (32 bars) @ 6"	3 1/2"	3"	26"

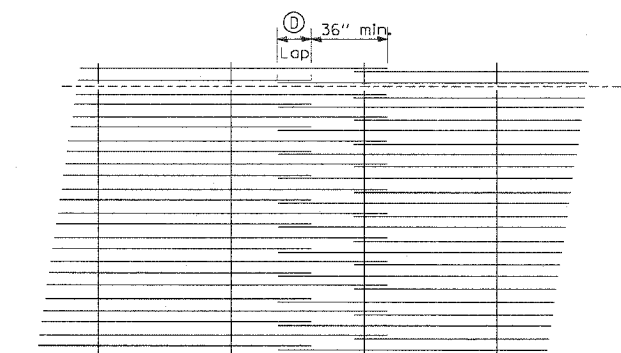
1



DETAIL A



LAP DETAIL II



LAP DETAIL III

NOTES:

1. THE PAVEMENT REINFORCEMENT SHALL BE 4.5" FROM THE TOP OF PAVEMENT.
2. EXCEPT AS NOTED OR SHOWN, THE DIMENSIONS AND NOTES SPECIFIED FOR LAP DETAIL I ARE TYPICAL FOR LAP DETAIL II AND III.
3. THE (D) DIMENSION AND THE DISTANCE FROM THE END OF THE TRANSVERSE BAR TO THE EDGE OF PAVEMENT MAY BE INCREASED BY 1" FOR SLIP FORM PAVING.

CTE | AECOM

REVISIONS	
NAME	DATE
ADDENDUM 1	7/27/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 ROADWAY DETAILS  
 EXTENDED LANE REINFORCEMENT FOR  
 CONTINUOUSLY REINFORCED PCC PAVEMENT

SCALE: NONE  
 DATE: June 9, 2006  
 DRAWN BY: NJH  
 CHECKED BY: RMG

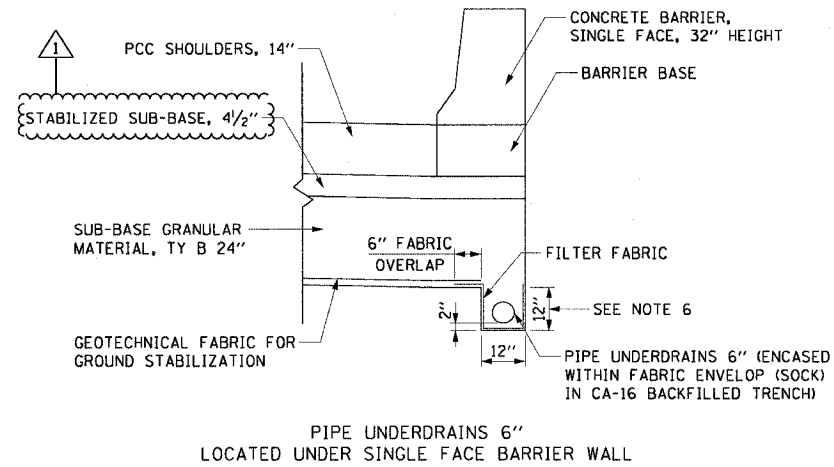
RDT-10

8:30:18 AM 7/29/2006

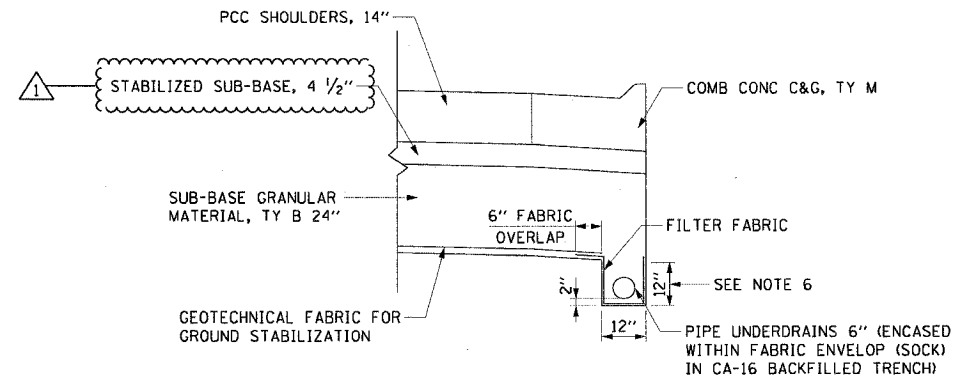


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	378
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

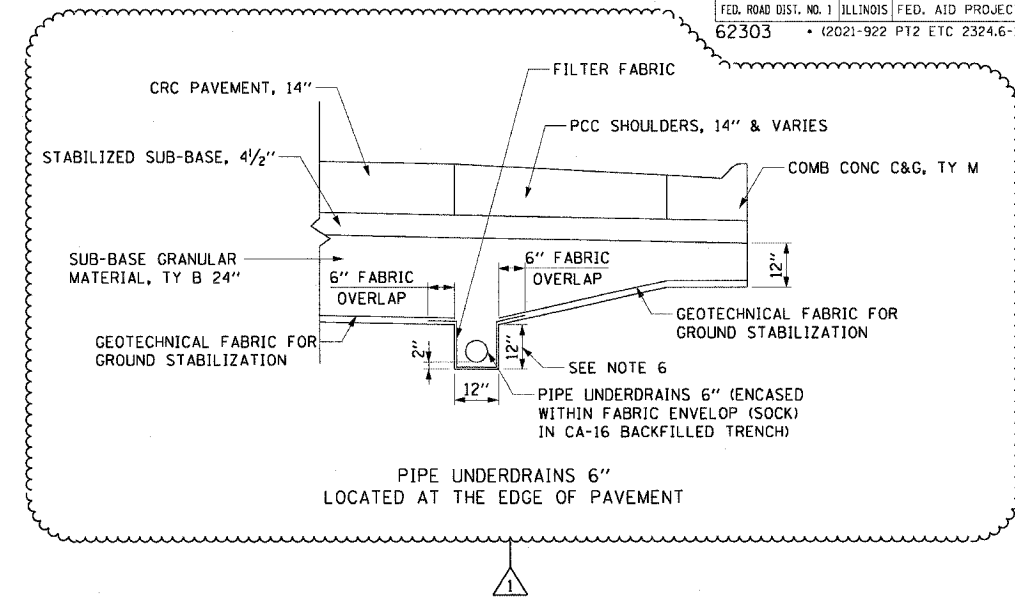
PIPER UNDERDRAINS 6"  
N.T.S.



PIPE UNDERDRAINS 6"  
LOCATED UNDER SINGLE FACE BARRIER WALL



PIPE UNDERDRAINS 6"  
LOCATED UNDER COMB CONC C&G

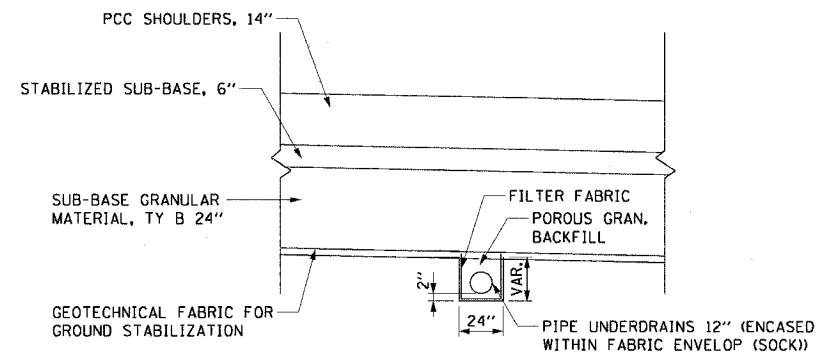


PIPE UNDERDRAINS 6"  
LOCATED AT THE EDGE OF PAVEMENT

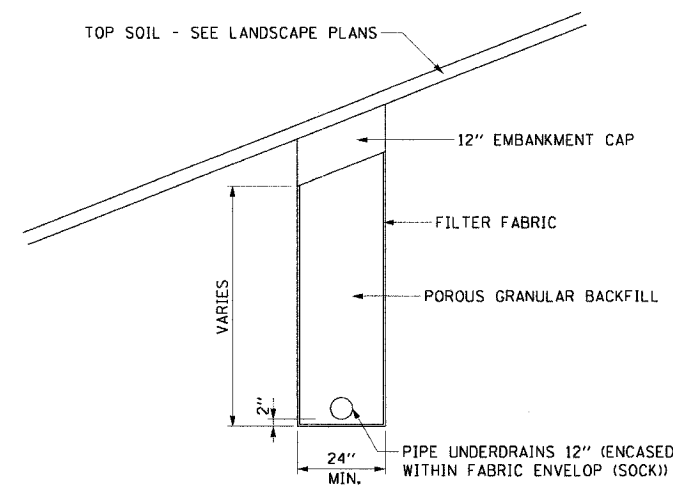
NOTES:

1. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PLACED SUCH THAT IT EXTENDS TO THE EDGE OF THE TRENCH AND OVERLAPS THE FILTER FABRIC BY A MINIMUM OF 6". AT NO TIME SHALL THE GEOTECHNICAL FABRIC FOR GROUND STABILIZATION BE OVER OR COVER THE UNDERDRAIN TRENCH.
2. NO CONSTRUCTION TRAFFIC SHALL BE ALLOWED ON THE TRENCH UNTIL A MINIMUM OF 12" OF COMPACTED SUB-BASE IS PROVIDED.
3. THE PIPE UNDERDRAIN TRENCH SHALL BE LINED WITH FILTER FABRIC ON THE BOTTOM AND SIDES OF THE TRENCH. THE TOP OF THE TRENCH MUST NOT BE COVERED WITH ANY FABRIC.
4. FILTER FABRIC, FABRIC ENVELOPE, AND CA-16 AGGREGATE ARE INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".
5. CONTRACTOR SHALL FLUSH PIPE UNDERDRAIN WITH WATER TO INSURE UNDERDRAIN IS FUNCTIONING PROPERLY PRIOR TO THE PLACEMENT OF STABILIZED SUB-BASE. PRIOR TO COMMENCING THIS WORK, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH HIS APPROACH AND METHODS FOR COMPLETING THIS WORK, FOR THE ENGINEER'S REVIEW AND APPROVAL. THE COST OF FLUSHING THE PIPE IS INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".
6. WHERE PIPE UNDERDRAIN CONFLICTS WITH EXISTING UTILITY CROSSINGS, DEPTH WILL VARY AS NEEDED TO ACHIEVE FLOW DIRECTIONS SHOWN ON DRAINAGE PLANS. MINIMUM DEPTH OF PIPE UNDERDRAIN IS 12" BELOW SUBGRADE. COST OF ADDITIONAL PIPE UNDERDRAIN DEPTH SHALL BE INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".
7. SEE ROADWAY DETAIL SHEETS RDT21A & RDT21B FOR PIPE UNDERDRAIN DETAILS AT CROSS STREET BRIDGES.

PIPER UNDERDRAINS 12"  
N.T.S.



PIPE UNDERDRAINS 12"  
LOCATED UNDER PROPOSED PAVEMENT



PIPE UNDERDRAINS 12"  
LOCATED OUTSIDE PROPOSED PAVEMENT

NOTES:

1. THE PIPE UNDERDRAIN TRENCH SHALL BE LINED WITH FILTER FABRIC ON THE BOTTOM AND SIDES OF THE TRENCH.
2. FILTER FABRIC AND FABRIC ENVELOPE ARE INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 12".

CTE | AECOM

REVISIONS	
NAME	DATE
ADDENDUM 1	7/27/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

DRAINAGE DETAILS  
PIPE UNDERDRAINS

SCALE: NONE  
DATE: June 9, 2006

DRAWN BY: RMG  
CHECKED BY: XXX

F:\940468\Civil\B-Cntrs\18 & 19\StrCntr\19\Roadway Details\DT15002A.dwg 11/20/04 PM

Benchmark: BM No. 3528  
 1/4" Cut on Northwesterly bolt of Fire Hydrant at the Northwest corner of 45th St. and Wentworth Ave. El. 16.20  
 All elevations are based on the Chicago City Datum (C.C.D.)

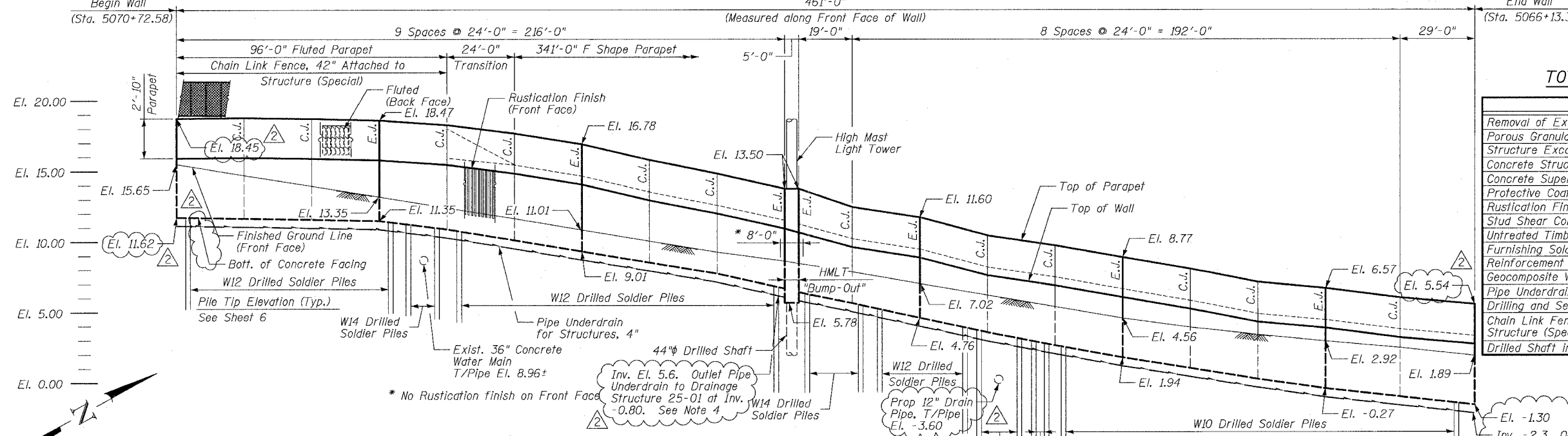
Salvage: None

**DESIGN SPECIFICATIONS**  
 2002 AASHTO

**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 36,000$  psi (M270 Gr 36) Soldier Piles  
 461'-0"

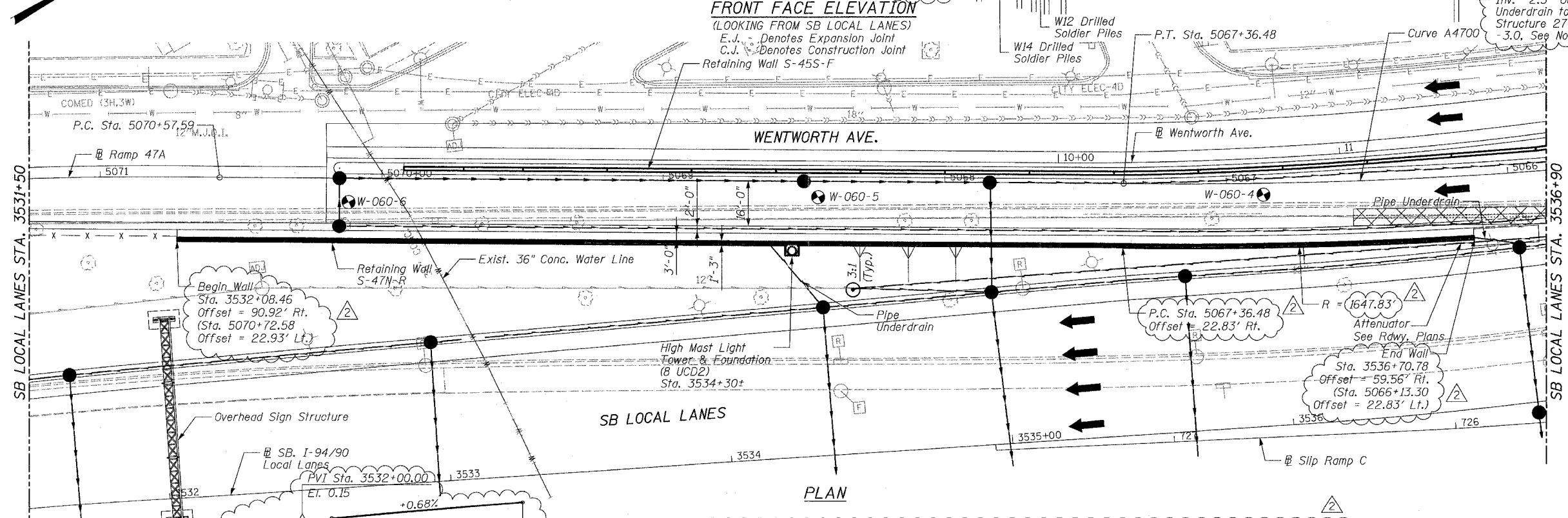
**LOADING**  
 2002 AASHTO

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	397
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 *2021-922 PT2 ETC 2324.6-1P) R-11				



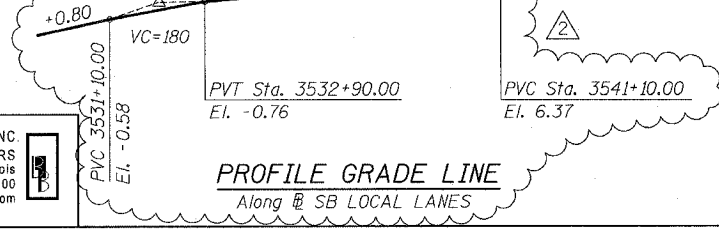
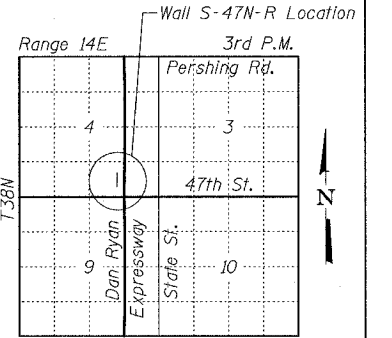
**TOTAL BILL OF MATERIAL**

Item	Unit	Quantity
Removal of Existing Structures No. 1	Each	2
Porous Granular Embankment (Special)	Cu. Yd.	138
Structure Excavation	Cu. Yd.	110
Concrete Structures	Cu. Yd.	81.8
Concrete Superstructure	Cu. Yd.	46.7
Protective Coat	Sq. Yd.	277
Rustication Finish	Sq. Ft.	1,413
Stud Shear Connectors	Each	368
Untreated Timber Lagging	Sq. Ft.	1,472
Furnishing Soldier Piles (W Section)	Foot	1,059
Reinforcement Bars, Epoxy Coated	Pound	22,740
Geocomposite Wall Drain	Sq. Yd.	23
Pipe Underdrains for Structures 4"	Foot	495
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	2,620
Chain Link Fence, 42" Attached to Structure (Special)	Foot	95
Drilled Shaft in Soil, 44"	Foot	30



**LEGEND**

- Soil Boring Location
- High Mast Lighting (Wall Mounted)
- Removal of Exist. Structures
- Proposed Underdrain
- Proposed Storm Sewer



- Notes:**
- Offsets given to Front Face of Wall. Station and offsets in parentheses are along Frontage Road or ramp.
  - Wall to be built along straight chords between construction joints.
  - Min. Facing in contact with soldier pile shall be 3'-0".
  - Coordinate pipe underdrain outlet with Drainage Contractor. Outlets shall slope at 1% min. See Drainage Plans. Cost included with Pipe Underdrains for Structures, 4".

**REVISIONS**

NAME	DATE
REVISOR	06/20/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**RETAINING WALL S-47N-R**  
**GENERAL PLAN AND ELEVATION**

SCALE: NTS  
 DATE: JUNE 9, 2006  
 DRAWN BY: LAM  
 CHECKED BY: BLU

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

8/7/2006 65205 AM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	399
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62303	*(2021-922 PT2 ETC 2324.6-1P) R-11			

**NOTES:**

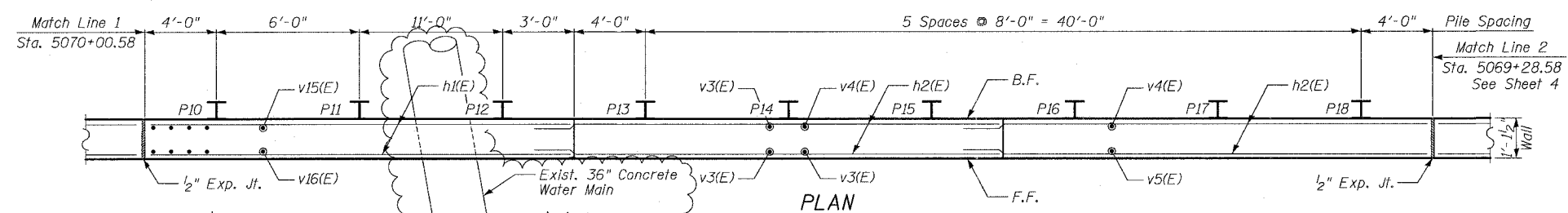
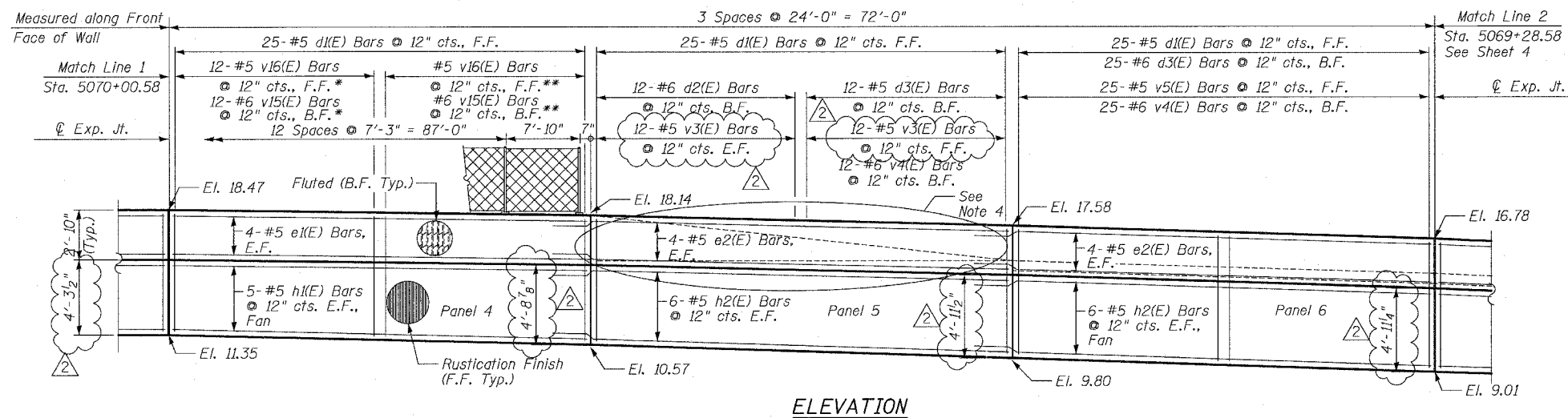
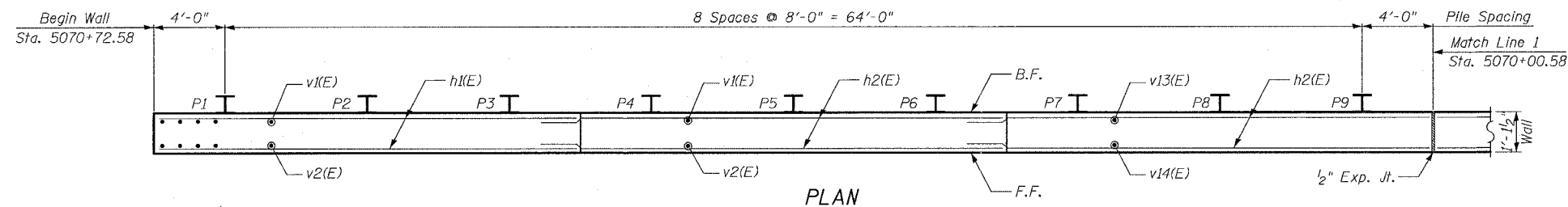
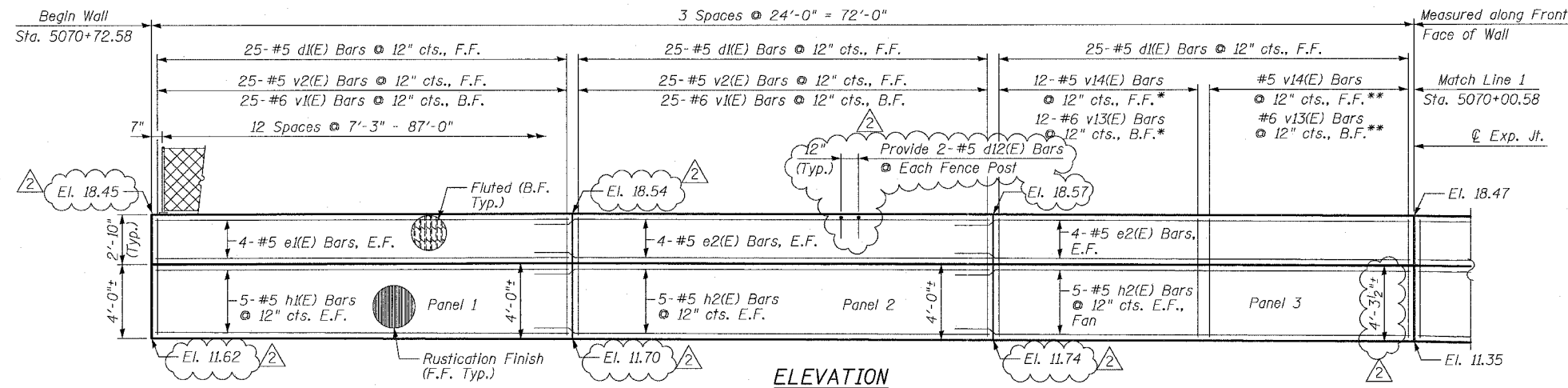
1. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
2. See Sheet 9 for reinforcing bar clearances.
3. Stations given are @ Ramp 47A.
4. See Sheet 9 for parapet reinforcing transition detail.

F.F. - denotes Front Face  
 B.F. - denotes Back Face  
 E.F. - denotes Each Face

**MIN BAR LAP**

#5 - 2'-2"  
 #6 - 2'-7"

\* Order bars full length and cut as indicated in cutting diagram. Bend after cutting as required.  
 \*\* Remaining Bars from Cutting Diagram



SHEET 3 OF 15

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-47N-R  
 WALL DETAILS 1

SCALE: NTS  
 DATE: JUNE 9, 2006

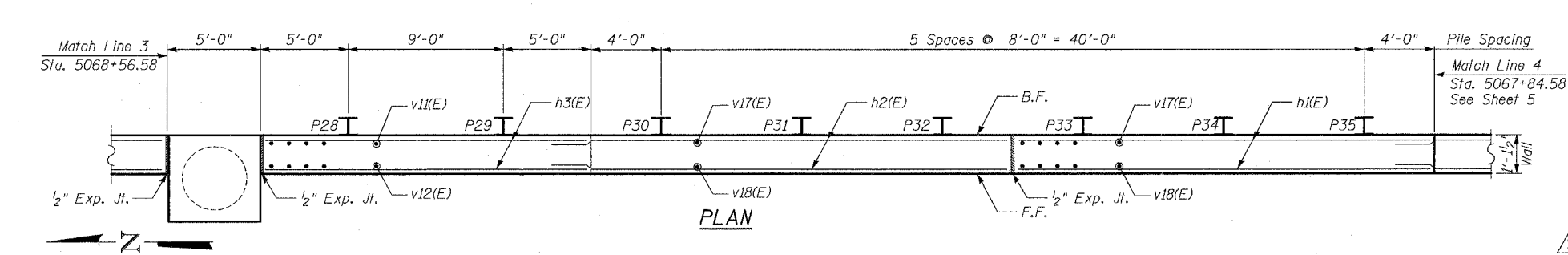
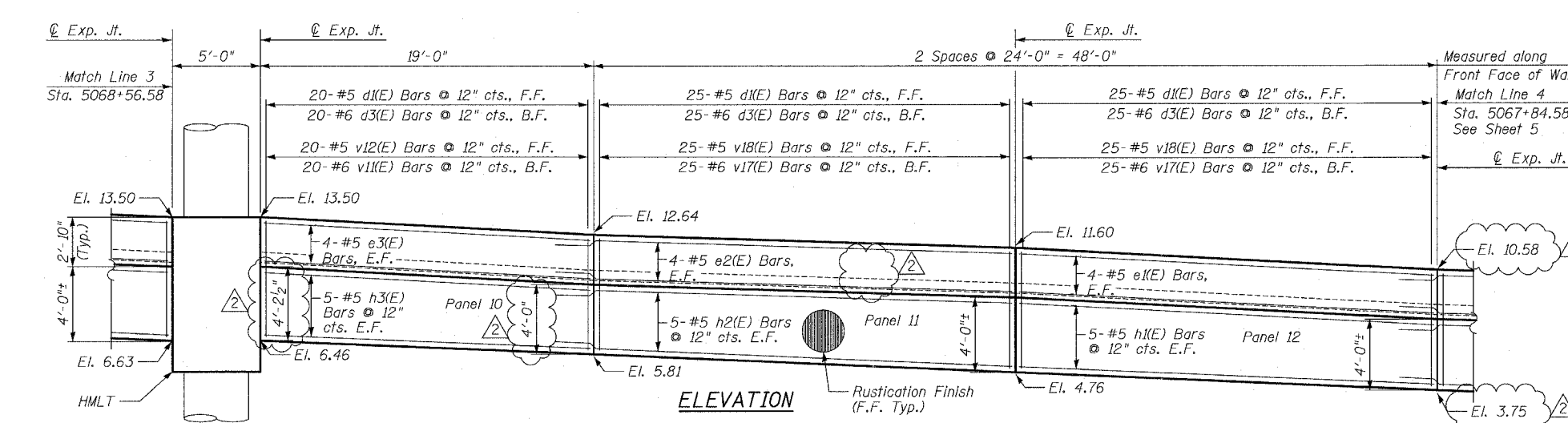
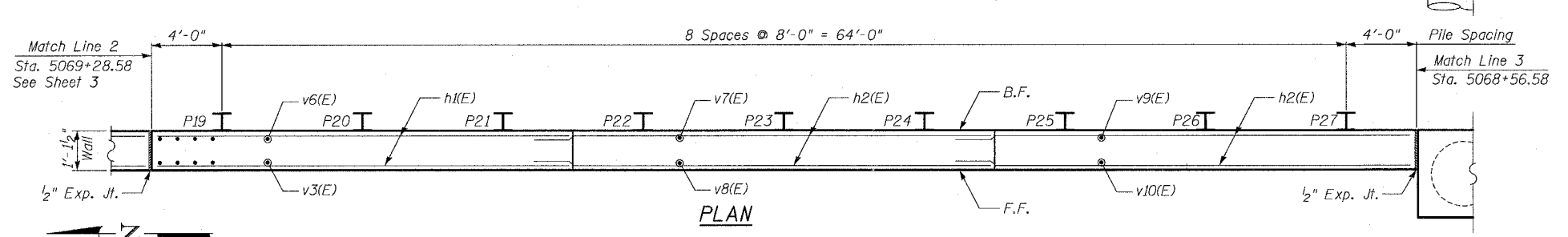
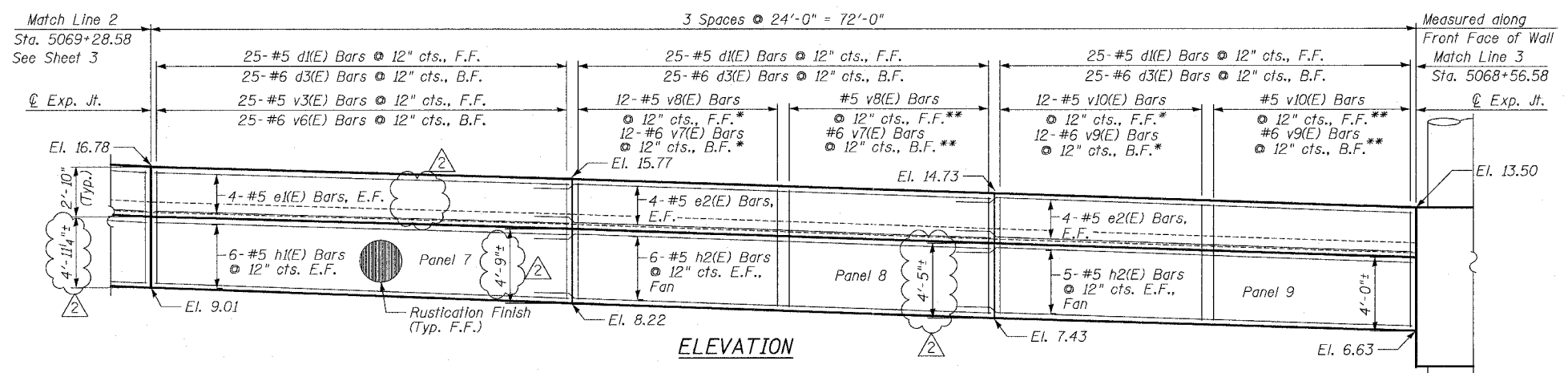
DRAWN BY: MTR  
 CHECKED BY: BLU

REVISIONS	
NAME	DATE
REVISOR	6/21/06
ADDENDUM 2	8/04/06

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8/4/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	400
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	*2021-922 PT2 ETC	2324.6-1P1	R-11	



- NOTES:**
1. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
  2. See Sheet 9 for reinforcing bar clearances.
  3. Stations given are @ Ramp 47A.
  4. See Sheets 7A and 7B for High Mast Light Tower Details.
- F.F. - denotes Front Face  
B.F. - denotes Back Face  
E.F. - denotes Each Face

**MIN BAR LAP**

#5 - 2'-2"  
#6 - 2'-7"

\* Order bars full length and cut as indicated in cutting diagram. Bend after cutting as required.  
\*\* Remaining Bars from Cutting Diagram

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REVISIONS	
NAME	DATE
REVISED	6/21/06
ADDENDUM 2	8/04/06

SHEET 4 OF 15

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-47N-R  
WALL DETAILS 2

SCALE: NTS  
DATE: JUNE 9, 2006

DRAWN BY: MTR  
CHECKED BY: BLU

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84/90		COOK	588	401
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
62303 *I2021-922 PT2 ETC 2324.6-1P) R-11				

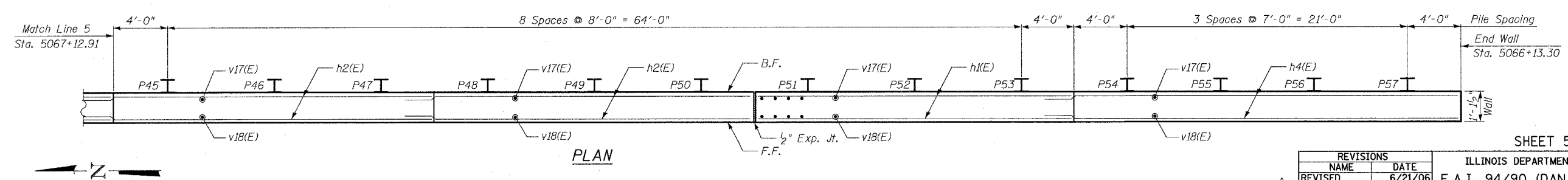
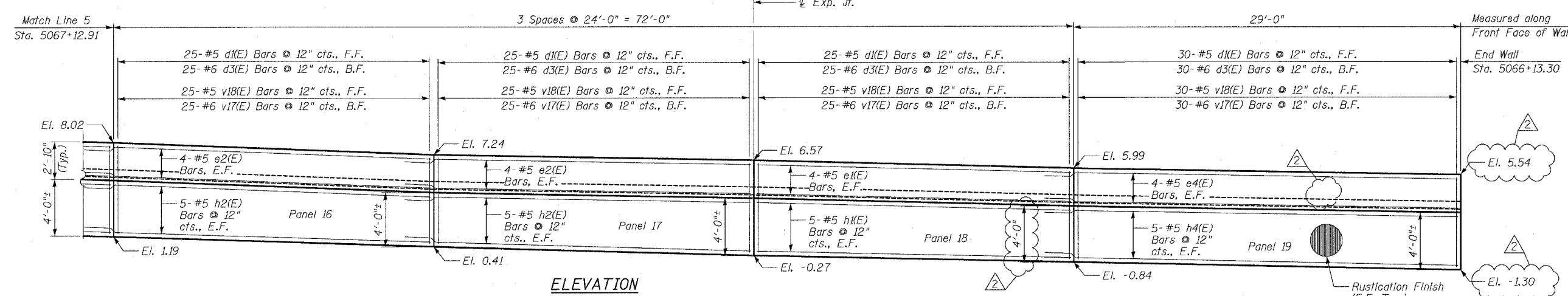
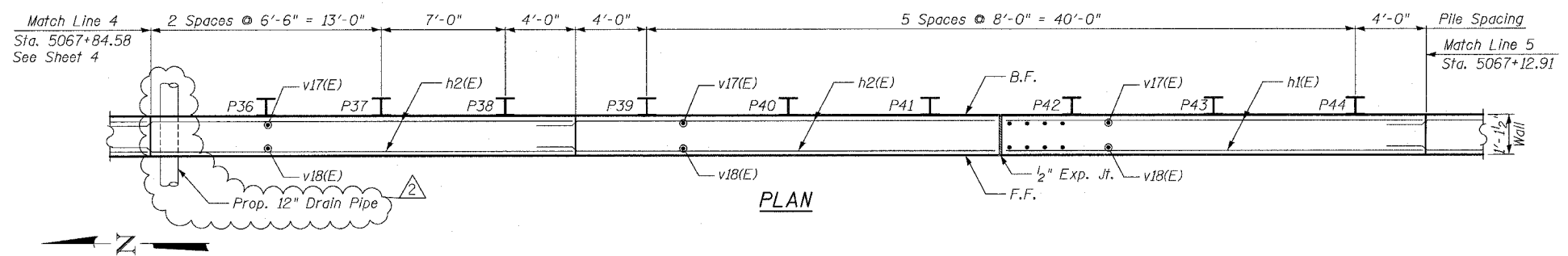
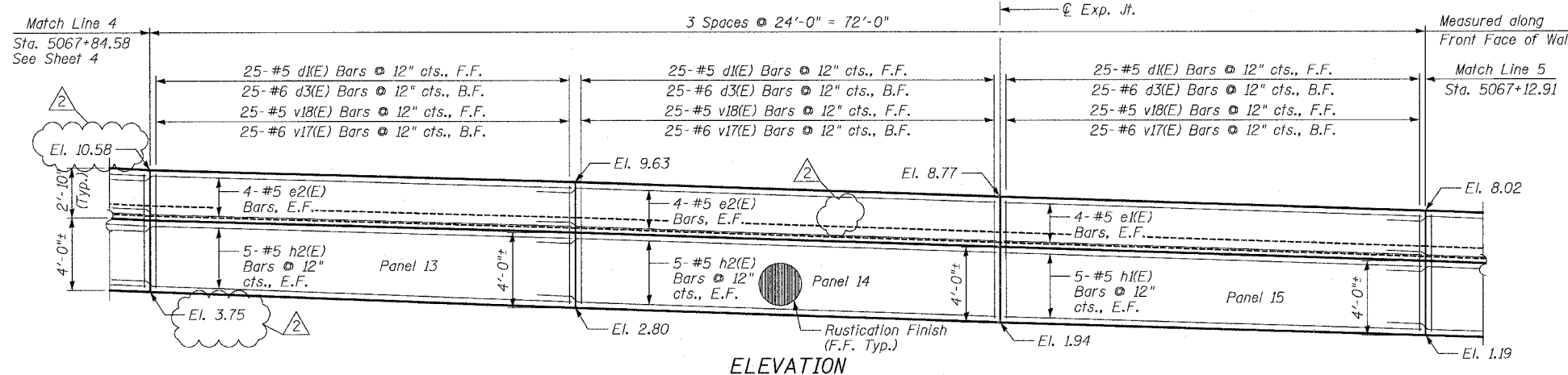
**NOTES:**

1. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
2. See Sheet 9 for reinforcing bar clearances.
3. Stations given are @ Ramp 47A.

F.F. - denotes Front Face  
 B.F. - denotes Back Face  
 E.F. - denotes Each Face

**MIN BAR LAP**

- #5 - 2'-2"
- #6 - 2'-7"



SHEET 5 OF 15

REVISIONS	
NAME	DATE
REVISOR	6/21/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-47N-R  
 WALL DETAILS 3

SCALE: NTS  
 DATE: JUNE 9, 2006  
 DRAWN BY: LAM  
 CHECKED BY: BLU

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

I:\62303\94\90\DWG\RET\_WALLS\62303-401.dwg  
 6/21/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	402
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		*(2021-922 PT2 ETC 2324.6-1P) R-11		

**PILE LAYOUT**

Pile	Offset* (Ft.)	Top of Wall El.	Top of Pile Elevation	Bot. of Facing Elevation	Section	Pile Tip Elevation	Pile Length (Ft.)
P-1	21.08	15.88	14.88	11.88	W12x40	-3.56	18.44
P-2	21.08	15.86	14.86	11.86	W12x40	-3.56	18.42
P-3	21.08	15.84	14.84	11.84	W12x40	-3.56	18.39
P-4	21.08	15.81	14.81	11.81	W12x40	-4.32	19.13
P-5	21.08	15.79	14.79	11.79	W12x40	-4.32	19.11
P-6	21.08	15.76	14.76	11.77	W12x40	-4.32	19.08
P-7	21.08	15.73	14.73	11.72	W12x40	-5.09	19.82
P-8	21.08	15.70	14.70	11.70	W12x40	-5.09	19.79
P-9	21.08	15.66	14.66	11.67	W12x40	-5.09	19.75
P-10	21.08	15.64	14.64	11.49	W12x40	-5.87	20.50
P-11	21.01	15.64	14.64	11.35	W14x43	-7.61	22.24
P-12	21.01	15.64	14.64	11.20	W14x43	-7.61	22.24
P-13	21.08	15.22	14.22	10.86	W12x40	-6.64	20.86
P-14	21.08	15.03	14.03	10.67	W12x40	-6.64	20.67
P-15	21.08	14.84	13.84	10.47	W12x40	-6.64	20.48
P-16	21.08	14.61	13.61	10.08	W12x40	-7.43	21.04
P-17	21.08	14.35	13.35	9.88	W12x40	-7.43	20.78
P-18	21.08	14.08	13.08	9.69	W12x40	-7.43	20.51
P-19	21.08	13.78	12.78	9.29	W12x40	-9.34	22.12
P-20	21.08	13.45	12.45	9.10	W12x40	-9.34	21.78
P-21	21.08	13.11	12.11	8.90	W12x40	-9.34	21.44
P-22	21.08	12.77	11.77	8.50	W12x40	-10.13	21.90
P-23	21.08	12.42	11.42	8.30	W12x40	-10.13	21.55
P-24	21.08	12.07	11.07	8.10	W12x40	-10.13	21.20
P-25	21.08	11.72	10.72	7.63	W12x40	-10.93	21.65
P-26	21.08	11.37	10.37	7.37	W12x40	-10.93	21.30
P-27	21.08	11.03	10.03	7.11	W12x40	-10.93	20.95
P-28	21.01	10.42	9.42	6.33	W14x43	-12.27	21.69
P-29	21.01	10.03	9.03	6.07	W14x43	-12.27	21.30
P-30	21.01	9.63	8.63	5.55	W14x43	-13.08	21.72
P-31	21.08	9.29	8.29	5.29	W12x40	-12.54	20.83
P-32	21.08	8.94	7.94	5.02	W12x40	-12.54	20.48
P-33	21.08	8.59	7.59	4.50	W12x40	-13.35	20.94
P-34	21.08	8.24	7.24	4.24	W12x40	-13.35	20.59
P-35	21.01	7.89	6.89	3.98	W14x48	-13.89	20.79
P-36	21.01	7.47	6.47	3.49	W14x48	-15.46	21.93
P-37	21.08	7.22	6.22	3.26	W12x40	-14.17	20.39
P-38	21.08	6.95	5.95	3.03	W12x40	-14.17	20.13
P-39	21.17	6.66	5.66	2.59	W10x33	-9.44	15.09
P-40	21.17	6.37	5.37	2.37	W10x33	-9.44	14.81
P-41	21.17	6.08	5.08	2.16	W10x33	-9.44	14.52
P-42	21.17	5.82	4.82	1.75	W10x33	-10.10	14.91
P-43	21.17	5.56	4.56	1.56	W10x33	-10.10	14.66
P-44	21.17	5.31	4.31	1.38	W10x33	-10.10	14.41
P-45	21.17	5.06	4.06	0.99	W10x33	-10.63	14.69
P-46	21.17	4.80	3.80	0.80	W10x33	-10.63	14.43
P-47	21.17	4.54	3.54	0.60	W10x33	-10.63	14.17
P-48	21.17	4.30	3.30	0.24	W10x33	-11.08	14.38
P-49	21.17	4.07	3.07	0.07	W10x33	-11.08	14.15
P-50	21.17	3.85	2.85	-0.10	W10x33	-11.08	13.93
P-51	21.17	3.64	2.64	-0.41	W10x33	-11.55	14.19
P-52	21.17	3.45	2.45	-0.55	W10x33	-11.55	13.99
P-53	21.17	3.25	2.25	-0.70	W10x33	-11.55	13.80
P-54	21.17	3.08	2.08	-0.96	W10x33	-12.11	14.19
P-55	21.17	2.94	1.94	-1.07	W10x33	-12.11	14.06
P-56	21.17	2.81	1.81	-1.18	W10x33	-12.11	13.92
P-57	21.17	2.67	1.67	-1.29	W10x33	-12.11	13.79

\*Offset from @ Ramp 47A

**BILL OF MATERIAL**

Item	Unit	Quantity
Furnishing Soldier Piles (W Sections)	Foot	1,059
Drill/Set Soldier Piles (In Soil)	Cu. Ft.	4,169

**NOTES**

1. All piles have drilled shaft dia = 2'-0".

SHEET 6 OF 15

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**RETAINING WALL S-47N-R  
PILE LAYOUT**

SCALE: NTS  
DATE: JUNE 9, 2006  
DRAWN BY: MTR  
CHECKED BY: BLU

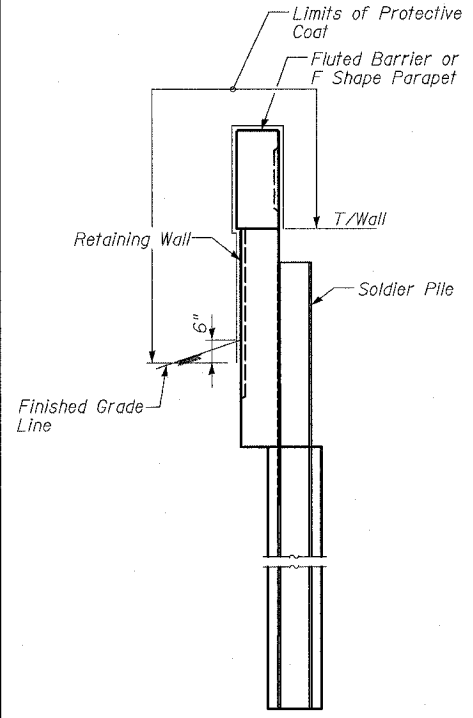
REVISIONS	
NAME	DATE
REVISED	06/15/06
ADDENDUM 2	8/04/06

BOWMAN, BARRETT & ASSOCIATES INC.  
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INSECO/COOK/CH/IND/94/90 RET WALL/660.05/FPLS/FIN/06/09

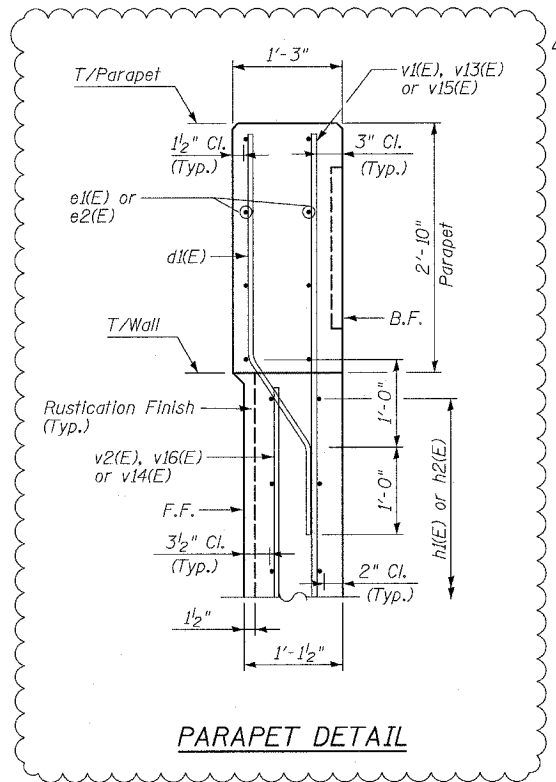
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d1(E)	475	#5	4'-7"	—
d2(E)	12	#6	5'-5"	—
d3(E)	362	#6	3'-0"	—
d12(E)	28	#5	2'-4"	—
e1(E)	48	#5	23'-8"	—
e2(E)	88	#5	26'-2"	—
e3(E)	8	#5	18'-8"	—
e4(E)	8	#5	31'-2"	—
h1(E)	62	#5	23'-8"	—
h2(E)	116	#5	26'-2"	—
h3(E)	10	#5	18'-8"	—
h4(E)	10	#5	31'-2"	—
v1(E)	50	#6	6'-6"	—
v2(E)	50	#5	3'-8"	—
v3(E)	61	#5	4'-6"	—
v4(E)	37	#6	6'-5"	—
v5(E)	25	#5	2'-7"	—
v6(E)	25	#6	6'-4"	—
v7(E)	12	#6	12'-2"	—
v8(E)	12	#5	8'-6"	—
v9(E)	12	#6	11'-5"	—
v10(E)	12	#5	7'-9"	—
v11(E)	20	#6	5'-6"	—
v12(E)	20	#5	3'-9"	—
v13(E)	12	#6	13'-3"	—
v14(E)	12	#5	7'-7"	—
v15(E)	12	#6	14'-0"	—
v16(E)	12	#5	8'-4"	—
v17(E)	230	#6	5'-6"	—
v18(E)	230	#5	3'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	19,320
Concrete Structures			Cu. Yd.	77.5
Concrete Superstructure			Cu. Yd.	44.8
Chain Link Fence, 42" Attached to Structure (Special)			Foot	95
Rustication Finish			Sq. Ft.	1,413
Protective Coat			Sq. Yd.	277

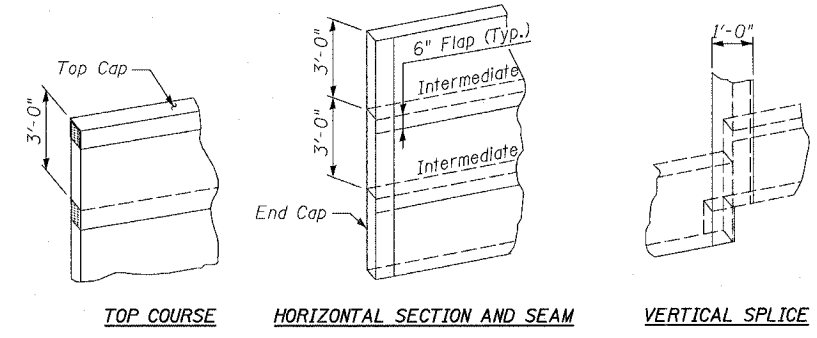


**DETAIL OF LIMITS OF PROTECTIVE COAT**

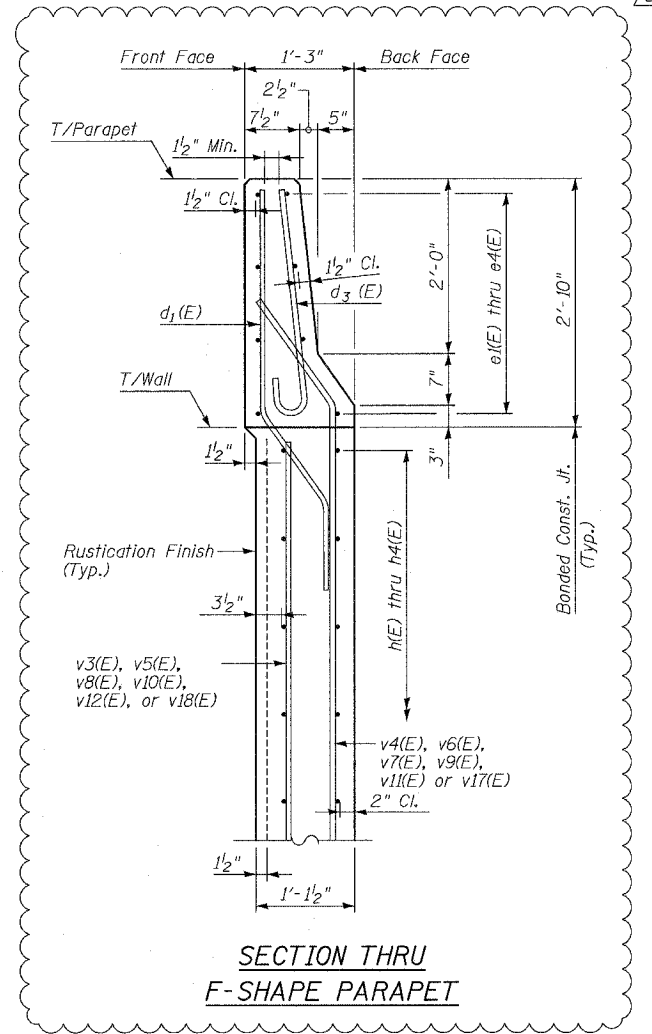
Apply Protective Coat to Front Face only when less than 25'-0" to Ramp E.O.P.



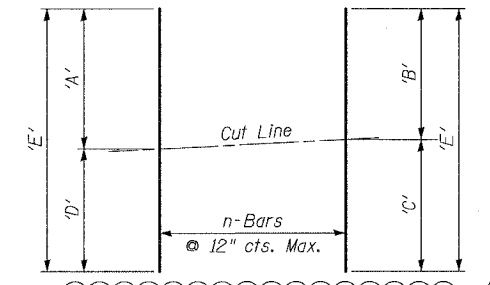
**PARAPET DETAIL**



**GEOCOMPOSITE WALL DRAIN DETAILS**



**SECTION THRU F-SHAPE PARAPET**

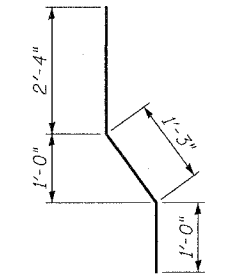


**\* BAR CUTTING DIAGRAM**

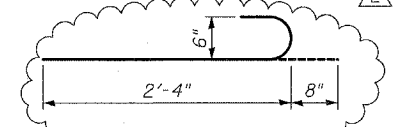
\* Order bars v3(E) thru v8(E) and v14(E) thru v18(E) full length, cut as shown and use remainder where indicated. Bend bars after cutting as required.

**TABLE OF DIMENSIONS**

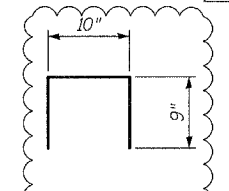
Bar	'A'	'B'	'C'	'D'	'E'	n
v7(E)	6'-3"	6'-1"	6'-1"	5'-11"	12'-2"	12
v8(E)	4'-5"	4'-3"	4'-3"	4'-1"	8'-6"	12
v9(E)	5'-11"	5'-9"	5'-8"	5'-6"	11'-5"	12
v10(E)	4'-1"	3'-11"	3'-10"	3'-8"	7'-9"	12
v13(E)	6'-9"	6'-8"	6'-7"	6'-6"	13'-3"	12
v14(E)	3'-11"	3'-10"	3'-9"	3'-8"	7'-7"	12
v15(E)	7'-3"	7'-0"	7'-0"	6'-9"	14'-0"	12
v16(E)	4'-5"	4'-2"	4'-2"	3'-11"	8'-4"	12



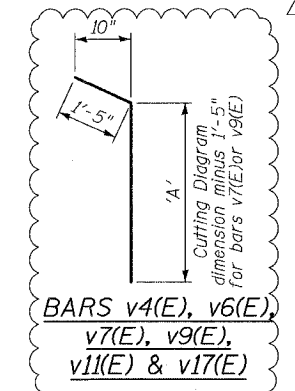
**BAR d1(E)**



**BAR d3(E)**



**BAR d12(E)**



**BARS v4(E), v6(E), v7(E), v9(E), v11(E) & v17(E)**

Bar	'A'
v4(E)	5'-0"
v6(E)	4'-11"
v11(E)	4'-3"
v17(E)	4'-1"

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ADDENDUM	8/04/06	

SHEET 7 OF 15  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
**RETAINING WALL S-47N-R**  
BILL OF MATERIAL  
SCALE: NTS  
DATE: JUNE 9, 2006  
DRAWN BY: LAM  
CHECKED BY: BLU

8/7/2006 9:54 AM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	403A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	*(2021-922 PT2 ETC 2324.6-1P) R-11			

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
s1(E)	30	#5	3'-11"	□
s2(E)	6	#5	3'-10"	□
s3(E)	6	#5	19'-2"	□
s4(E)	1	#5	18'-2"	□
s5(E)	1	#5	18'-0"	□
s6(E)	1	#5	17'-8"	□
**sp1(E)	1	#4	7'-4"	W
**sp2(E)	1	#4	30'-10"	W
v19(E)	12	#10	7'-4"	—
v20(E)	12	#10	35'-2"	—
v21(E)	14	#6	7'-4"	—
v22(E)	6	#6	6'-5"	—
v23(E)	6	#6	4'-8"	—
Reinforcement Bars, Epoxy Coated *		Pound	3,420	
Concrete Structures		Cu. Yd.	4.3	
Concrete Superstructure		Cu. Yd.	1.9	
Drilled Shaft in Soil, 44"		Foot	30	

Reinforced Bars designated (E) shall be epoxy coated.  
 \* Weight includes 4-#4 spacer bars  
 \*\* Length indicates height of spiral

**MIN BAR LAP**

#4	1'-8"
#5	2'-2"
#6	2'-7"
#10	5'-10"

**Notes:**

- The design loads are based on AASHTO Standard Specifications of Structural Supports for Highway Signs, Luminaires and Traffic Signals-2001.
- Drilled Shafts shall be installed according to IDOT Special Provisions for "Drilled Shafts".
- In constructing the drilled shafts, the Contractor may encounter pavements, fill, foundations, abandoned utilities, boulders and other obstructions. See Special Provisions for "Drilled Shaft in Soil, 44".
- If field conditions dictate a shorter shaft length than shown, the Contractor shall cut the reinforcement bars to their required length. If the shaft length is longer than indicated, the Contractor shall extend the reinforcement by providing additional reinforcement of equal size and lapping with the minimum lap length shown.
- At all locations where reinforcement bar laps are not in direct contact, the Contractor shall provide sufficient spacing between the vertical bars equal to the size of the largest concrete aggregate plus 1/2 inch.
- Minimum Spiral Lap = 1 1/2 turns
- Costs of P.J.F., nails and waterseal shall be included with "Concrete Structures".
- Conduit for HMLT not shown for clarity. See Sheet 7B for location, layout, number and size of conduit.
- Cost of anchor rod assembly, conduit, wires and grounding requirements are included with "Concrete Structures" or "Drilled Shaft in Soil, 44" as appropriate.
- The Contractor shall pay particular attention to construction tolerances in ensuring proper placement of reinforcement bars, anchor rods and gate hardware. The Contractor shall coordinate with Contract 62733, the HMLT manufacturer and installer, as required, to ensure proper placement and orientation of anchor rods and HMLT. Orientation of HMLT must be coordinated with gate and handhole clearances.

SHEET 7A OF 15

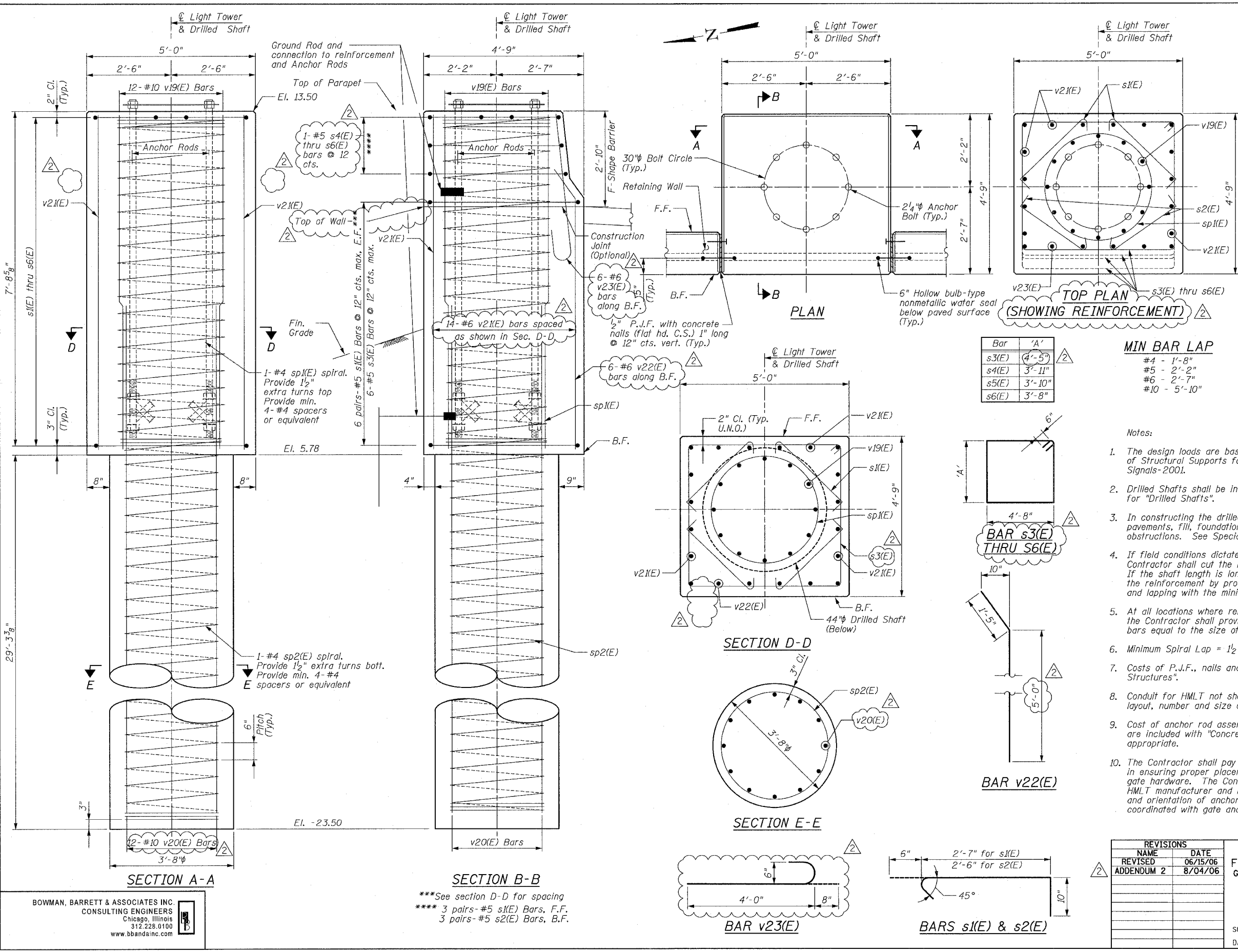
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**RETAINING WALL S-47N-R  
 LIGHT TOWER FOUNDATION DETAILS**

SCALE: NTS  
 DATE: JUNE 9, 2006  
 DRAWN BY: LAM  
 CHECKED BY: BLU

**REVISIONS**

NAME	DATE
REVISOR	06/15/06
ADDENDUM 2	8/04/06

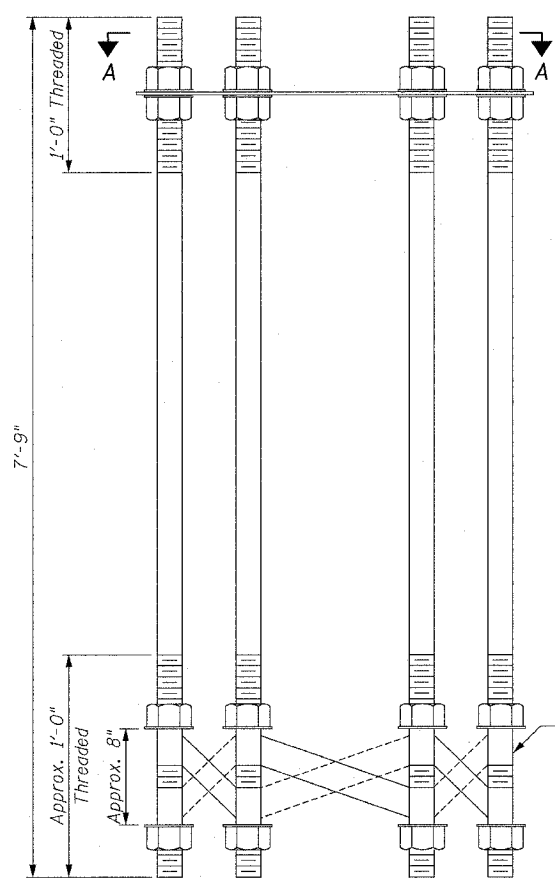


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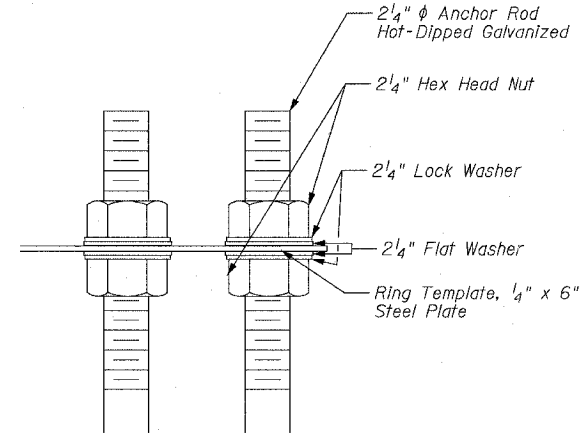
\*\*\*See section D-D for spacing  
 \*\*\*\* 3 pairs-#5 s1(E) Bars, F.F.  
 3 pairs-#5 s2(E) Bars, B.F.



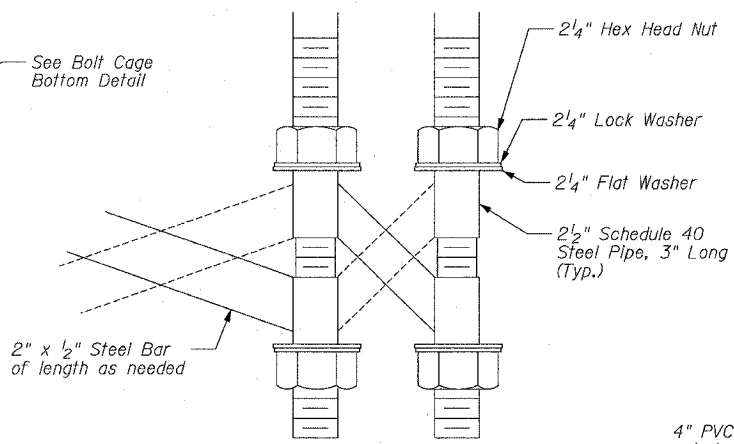
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94/90	*	COOK	588	403B
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
62303		*(2021-922 PT2 ETC 2324.6-1P) R-11		



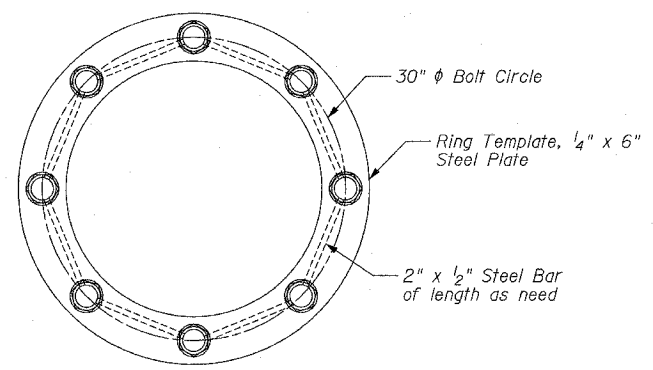
**ANCHOR BOLT CAGE**



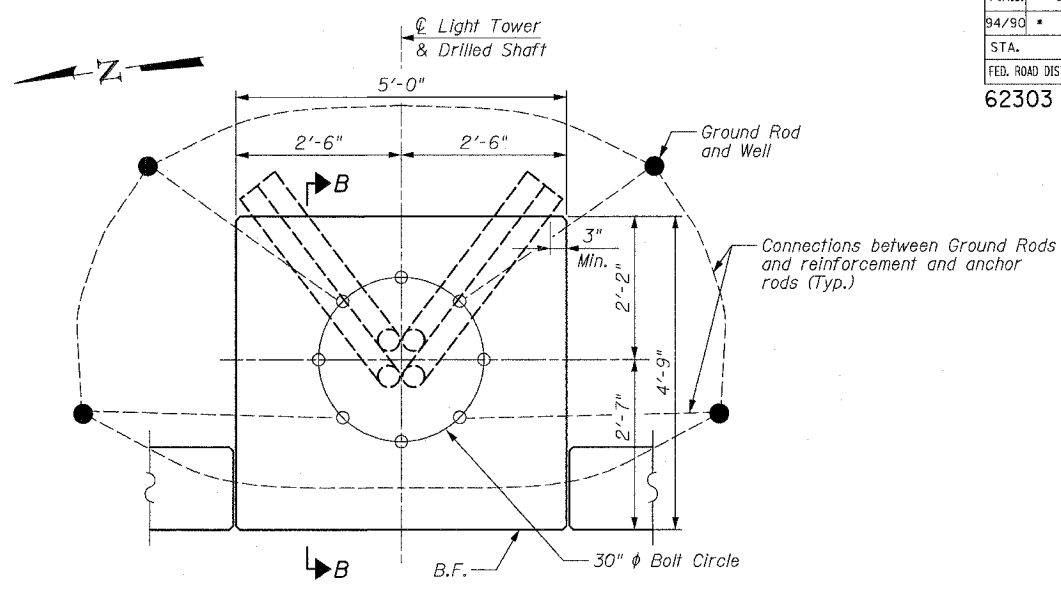
**BOLT CAGE TOP**



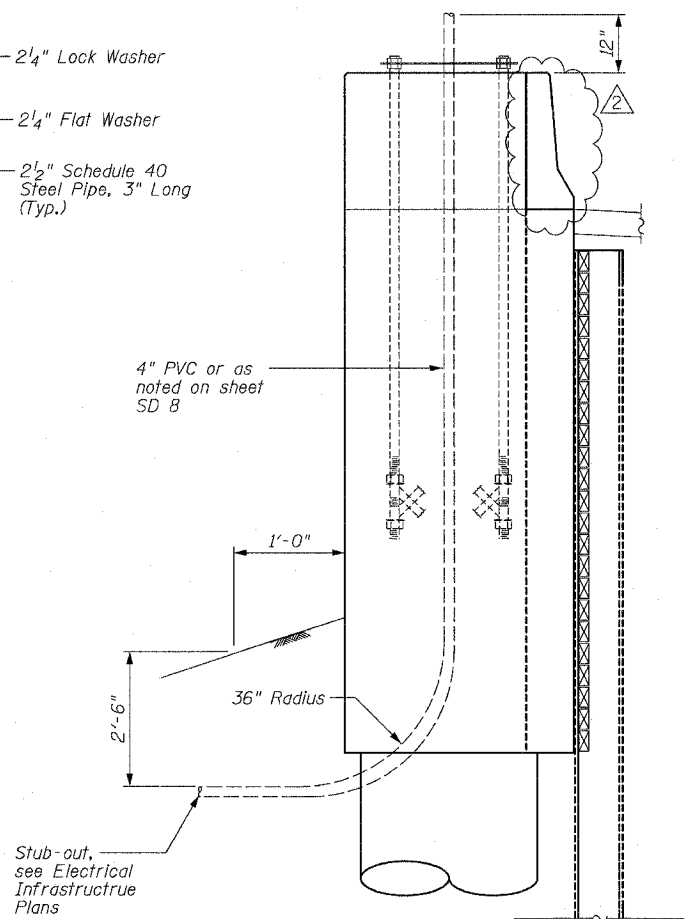
**BOLT CAGE BOTTOM**



**SECTION A-A**



**PLAN - CONDUIT PLACEMENT**  
See Note 10



**SECTION B-B**

- Notes:
- Anchor Rods shall be straight and shall be according to AASHTO M 314 or ASTM F1554, Grade 105 and galvanized according to Article 1006.09.
  - Nuts shall be AASHTO M 291, Class S and washers shall be AASHTO M 293. All nuts and washers shall be hot-dipped galvanized in accordance with AASHTO M 232.
  - Steel Bar and Pipe shall be galvanized in accordance with AASHTO M 111.
  - Anchor Rod information shall be submitted for approval and shall be fully coordinated with tower manufacturer's requirements.
  - The Anchor Rods shall be vertical. No adjustment shall be allowed after the foundation is placed.
  - The gap between the foundation and the base plate shall be enclosed with a stainless steel screen fastened with a stainless steel band. Cost included with "Light Tower" in Contract 62583.
  - The Light Tower shall not be erected until after the concrete has been cured according to Article 1020.13.
  - Two Anchor Rods opposite each other shall have the Anchor Rod threads peened after nuts are installed.
  - See BE500 & BE501 for additional details not shown here. Light Towers and Base R by others.
  - Grounding requirements shall be as shown on IDOT standard BE501. Location of ground rods and grounding attachments to reinforcement bars and anchor rods shall be as directed by Engineer. Epoxy coating must be removed from bars prior to exothermic welding. Repair coating after welding in accordance with Article 508.05 of the Standard Specs.

SHEET 7B OF 15

REVISIONS	
NAME	DATE
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ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

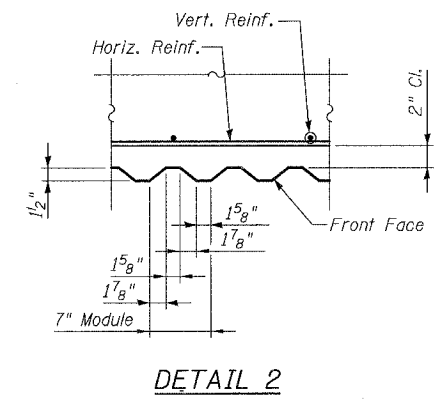
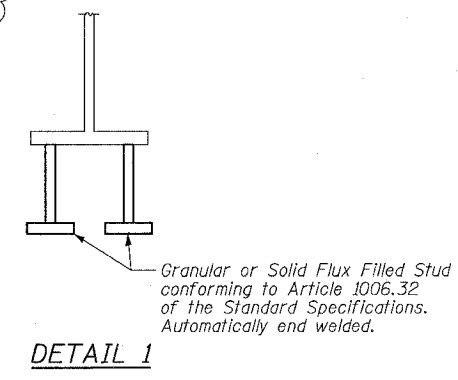
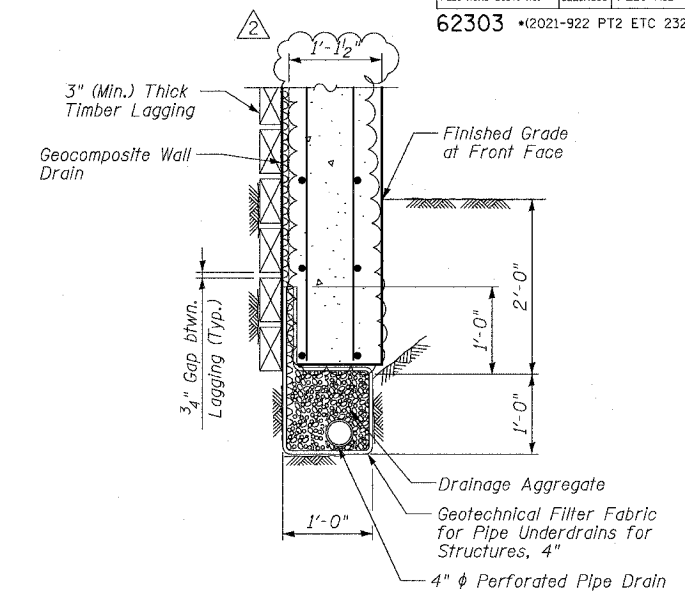
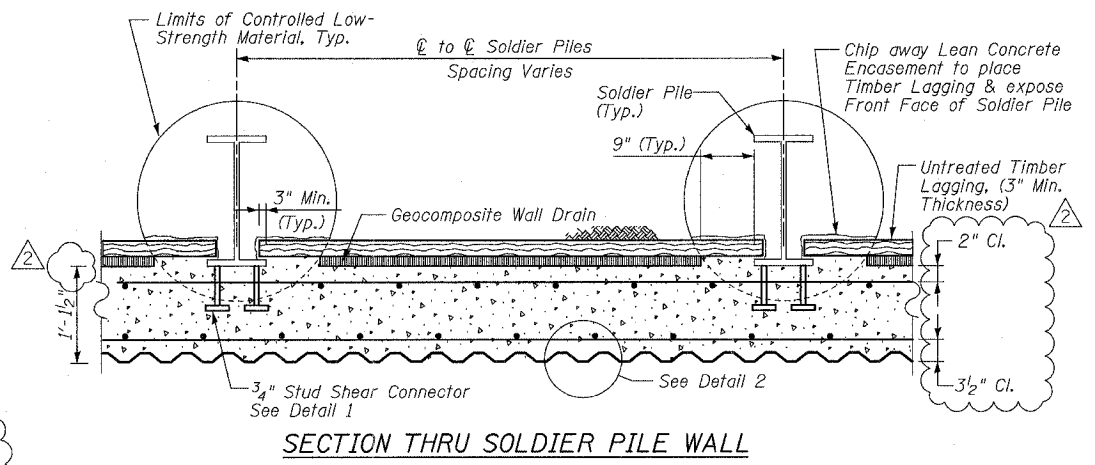
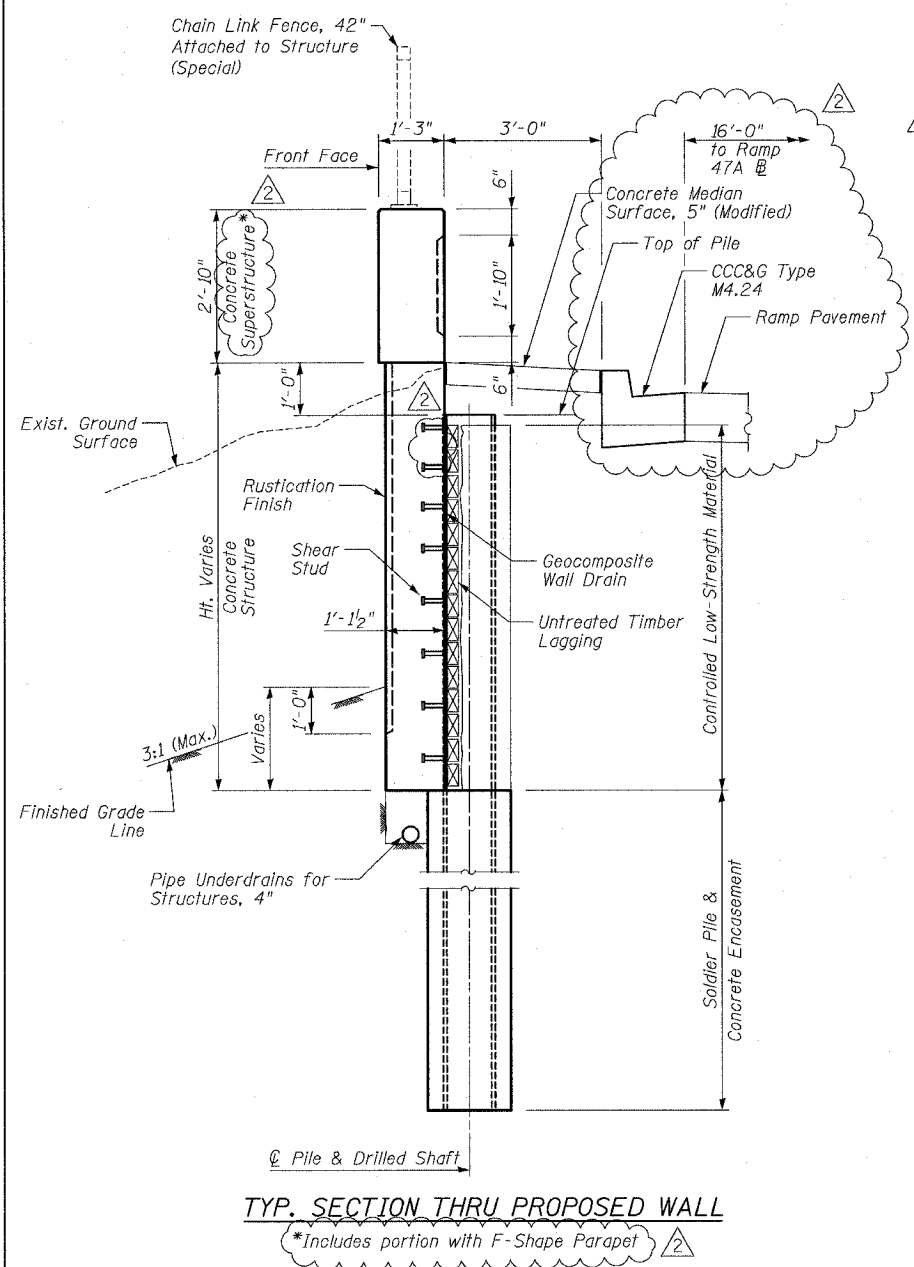
RETAINING WALL S-47N-R  
LIGHT TOWER DETAILS

SCALE: NTS  
DATE: JUNE 9, 2006  
DRAWN BY: MTR  
CHECKED BY: BLU

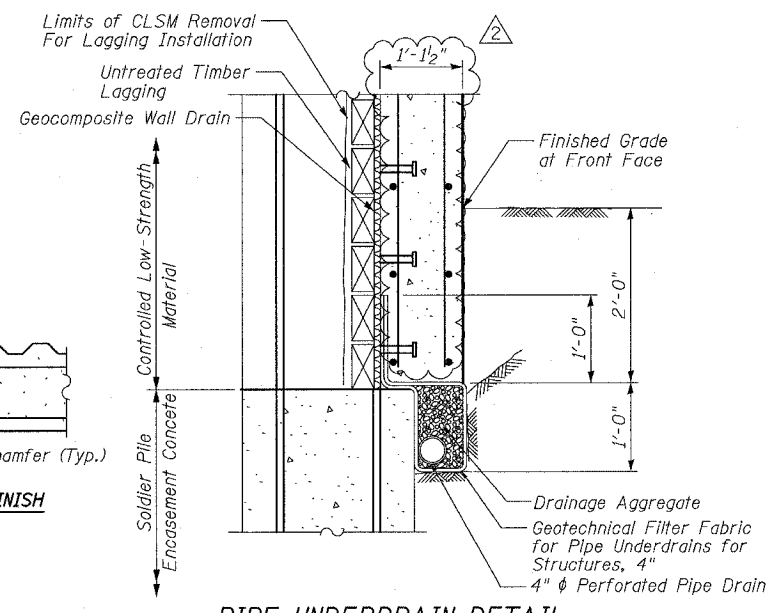
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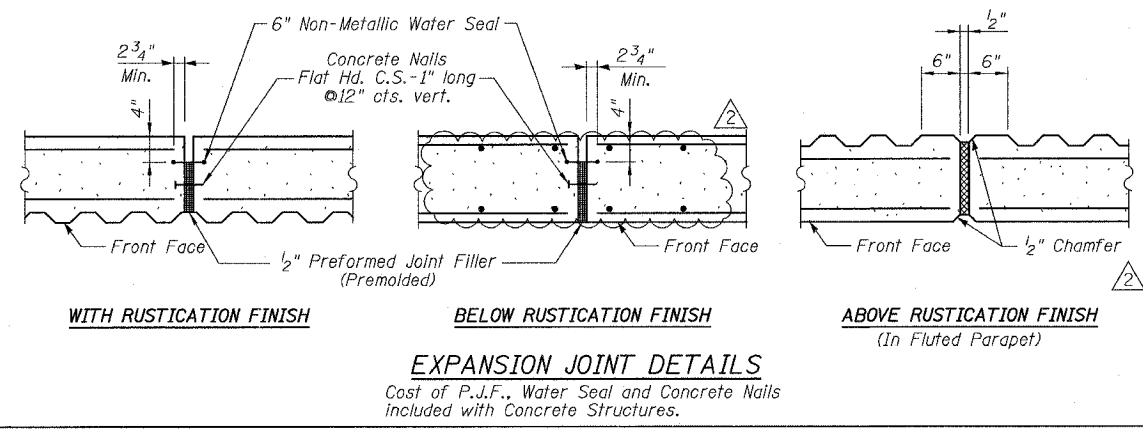
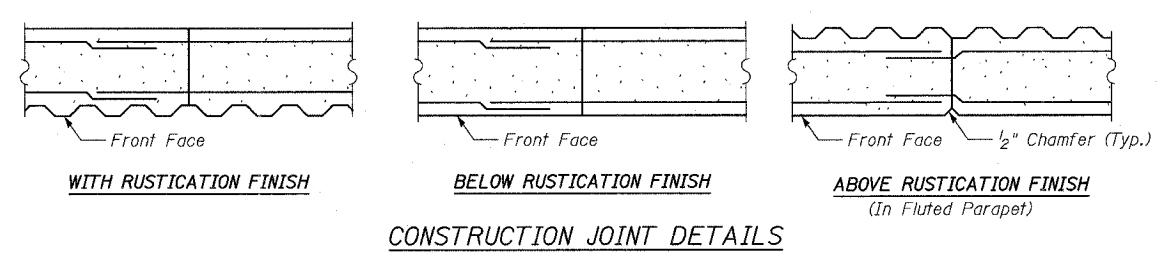
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	404
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES



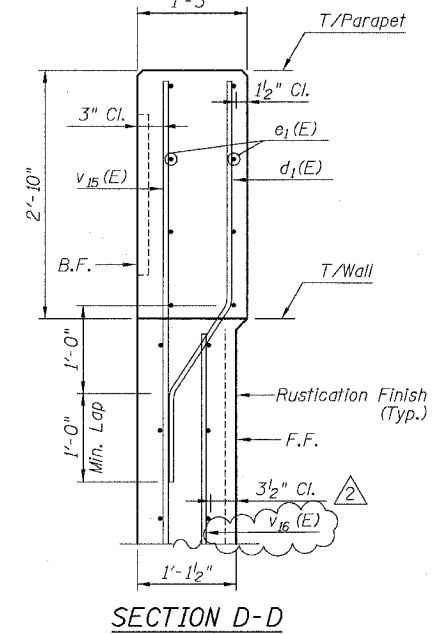
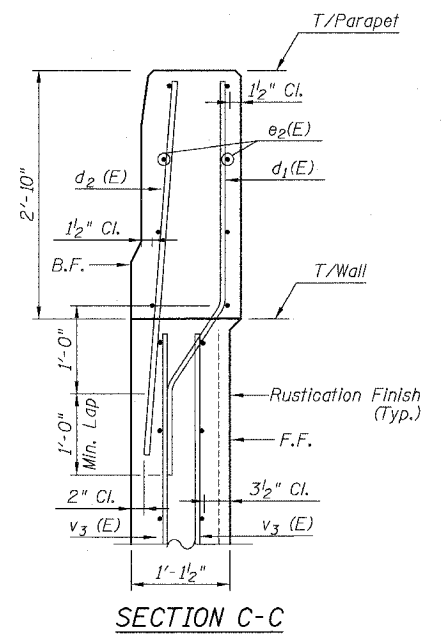
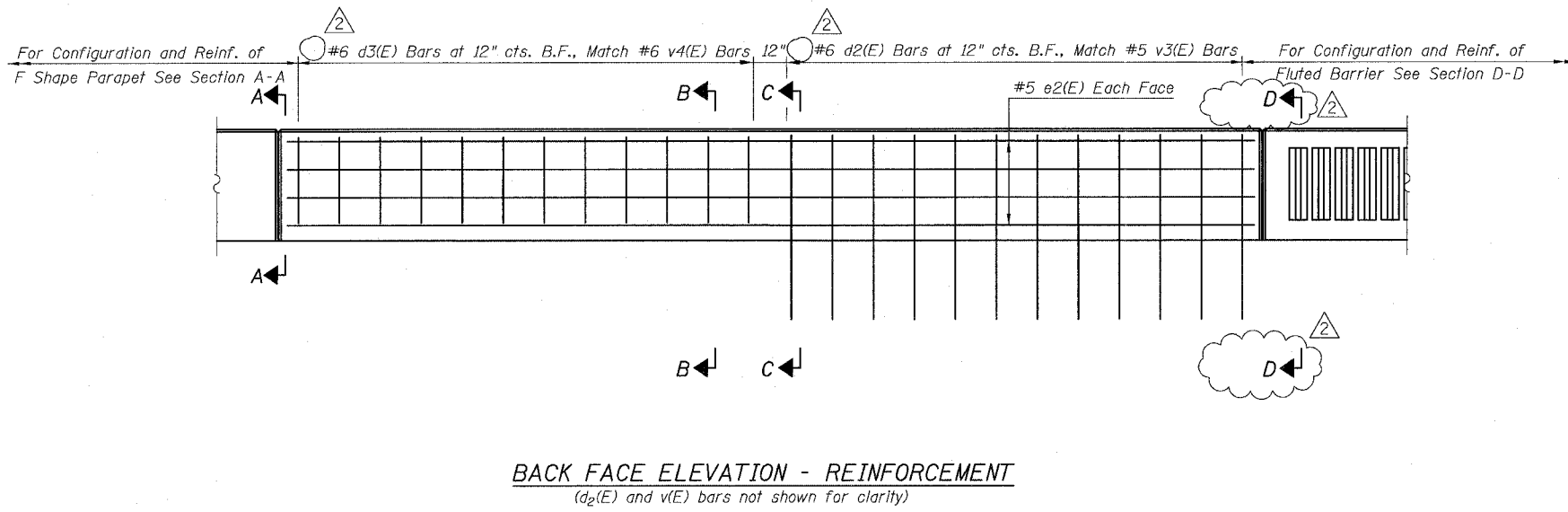
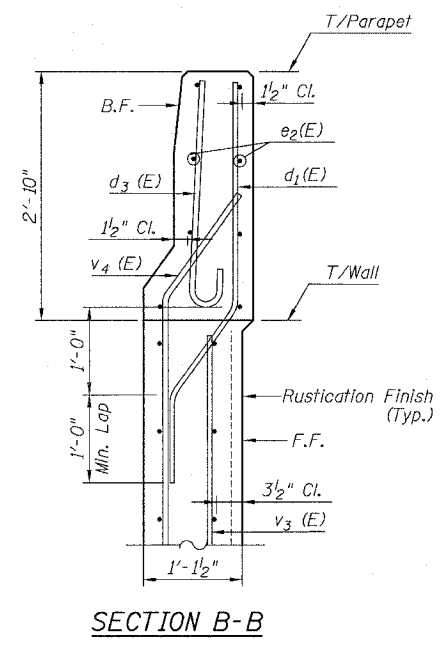
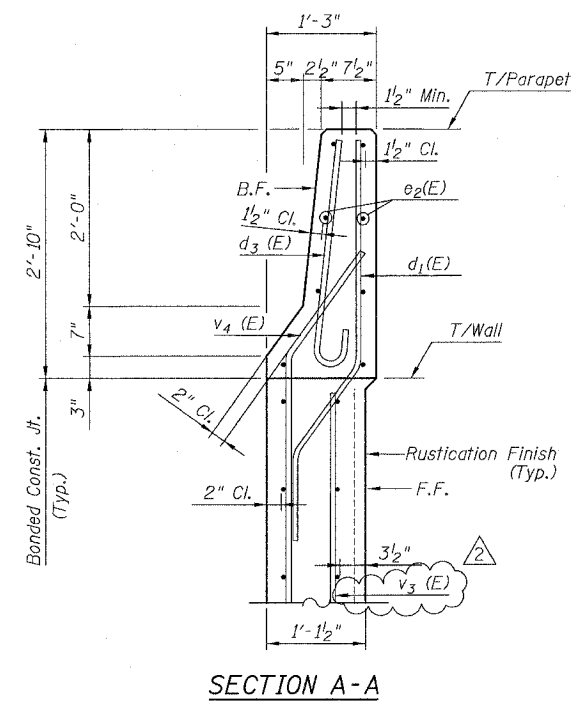
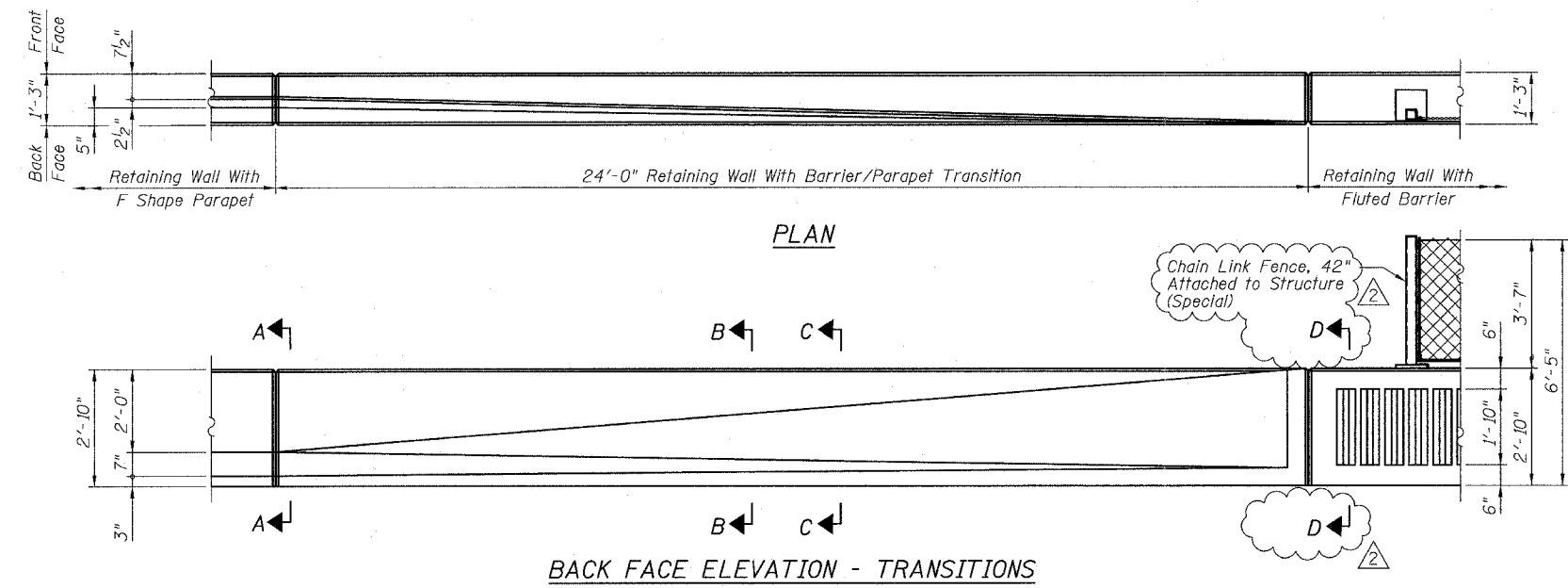
PIPE UNDERDRAIN DETAIL AT SOLDIER PILES



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ADDENDUM 2	8/04/06

SHEET 8 OF 15  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
RETAINING WALL S-47N-R  
MISCELLANEOUS DETAILS  
SCALE: NTS  
DATE: JUNE 9, 2006  
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**NOTES:**  
1. For Bill of Bars & Bar Bend Details, See Sheet 7.

REVISIONS	
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REVISED	6/22/06
ADDENDUM 2	8/04/06

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	413
STA.		TO STA.		
62303		*2021-922 PT2 ETC 2324.6-1P1 R-11		

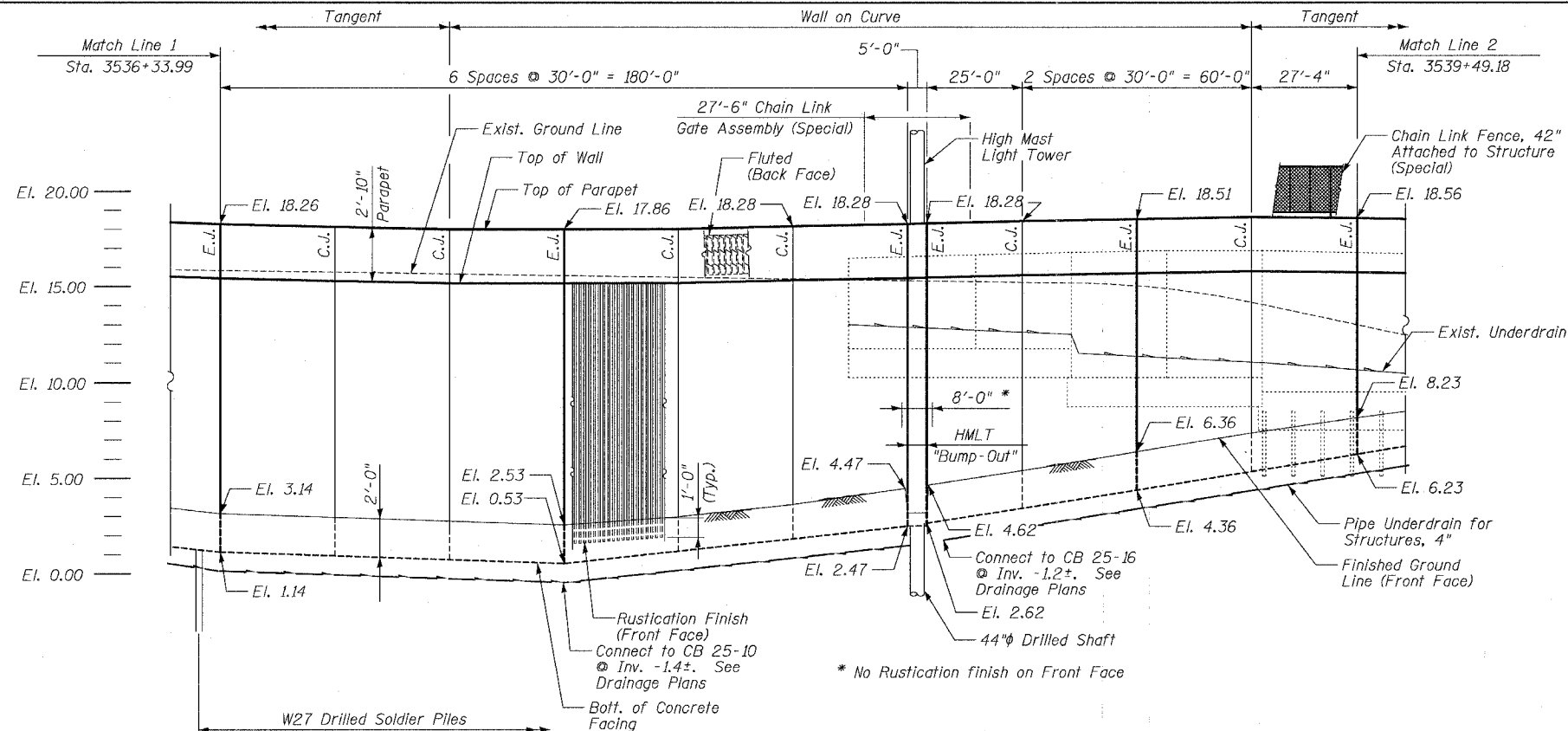
**E.O.P. ELEVATIONS**

Along Wentworth Ave. at Retaining Wall

Station	Elevation
5070+00	14.85
5069+50	14.76
5069+00	14.71
5068+50	14.79
5068+00	14.95
10+00	15.10
10+50	15.17
11+00	14.98
11+50	14.67
12+00	14.42
12+50	14.67
13+00	14.83
13+50	15.07
14+00	15.13
14+50	14.87
15+00	14.72
15+50	14.69
16+00	14.76
16+50	14.86
17+00	14.94
17+50	15.03
18+00	15.03

**TOTAL BILL OF MATERIAL**

Item	Unit	Quantity
Porous Granular Embankment (Special)	Cu. Yd.	194
Removal of Existing Structures No. 2	Each	2
Concrete Removal	Cu. Yd.	44
Structure Excavation	Cu. Yd.	188
Concrete Structures	Cu. Yd.	335.2
Concrete Superstructure	Cu. Yd.	133.2
Protective Coat	Sq. Yd.	1,339
Rustication Finish	Sq. Ft.	9,125
Stud Shear Connectors	Each	2,074
Untreated Timber Lagging	Sq. Ft.	6,569
Furnishing Soldier Piles (W Section)	Foot	3,536
Reinforcement Bars, Epoxy Coated	Pound	63,020
Geocomposite Wall Drain	Sq. Yd.	2,512
Pipe Underdrains for Structures 4"	Foot	772
Temporary Soil Retention System	Sq. Ft.	546
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	24,136
Chain Link Fence, 42" Attached to Structure (Special)	Foot	1,000
Chain Link Gate Assembly (Special)	Each	1
Drilled Shaft in Soil, 44"	Foot	26
Pile Extraction	Each	2



**GENERAL NOTES:**

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work. All Construction joints shall be bonded.

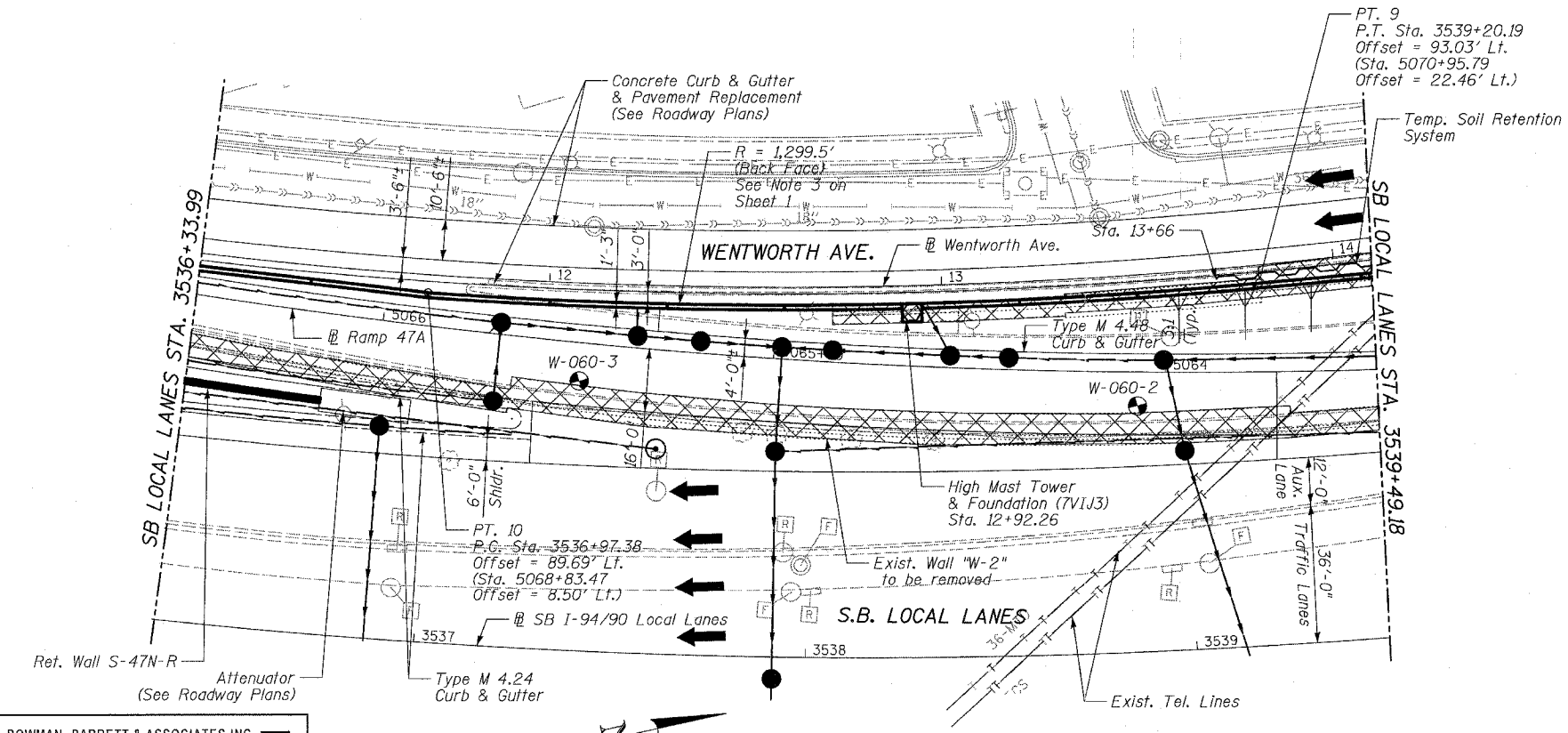
The Contractor is responsible for the design and performance of the lagging using no less than a 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress  $f_b$  of 1000 psi.

All exposed concrete edges shall be chamfered  $\frac{3}{4}$ " except as noted.

Protective Coat shall be applied to the top and back face of parapet and to the exposed front face in areas where the wall is within 25 feet of edge of pavement.

**LEGEND**

- Soil Boring Location
- Proposed Drainage Structure
- Proposed Underdrain
- Proposed Storm Sewer
- Removal of Exist. Structures



SHEET 2 OF 24

REVISIONS	
NAME	DATE
REVISOR	6/14/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)  
 COOK COUNTY  
 STA. 3532+90.57 TO STA. 3543+57.42  
 RETAINING WALL S-45S-F  
 GENERAL PLAN & ELEVATION 2  
 S.N. 016-W978

SCALE: NTS  
 DATE: JUNE 9, 2006  
 DRAWN BY: MTR  
 CHECKED BY: BLU

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