1-18-13 LETTING ITEM 005

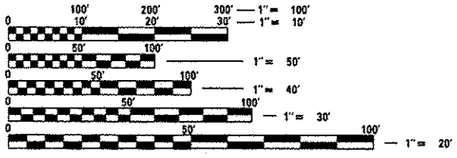
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE OF ROSEMONT AND THE CITY OF CHICAGO

TRAFFIC DATA

2010 ADT = 114,700

POSTED SPEED LIMIT = 55 MPH



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240
PROJECT MANAGER: KEN ENG (847) 705-4247

CONTRACT NO. 60T33

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

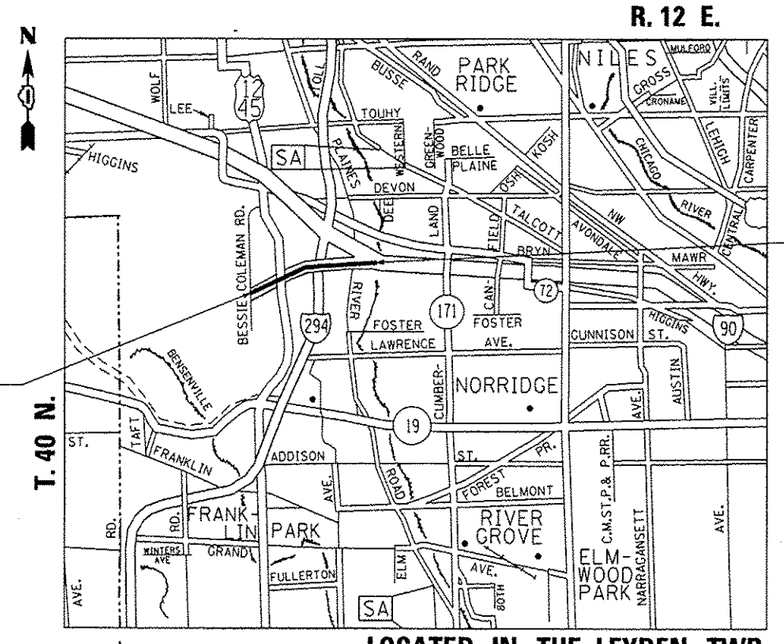
F.A.I. ROUTE 190 (INTERSTATE 190)
O'HARE AIRPORT TO I-90
SECTION (0101.6&0102.5)RS-2
RESURFACING
PROJECT: ACIM-190-1(001)000
COOK COUNTY
C-91-328-12

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5) RS-2	COOK	85*	1
	ILLINOIS	CONTRACT NO. 60T33		

*85+1=86

D-91-328-12

LOCATION OF SECTION INDICATED THUS: —



DU PAGE COUNTY | COOK COUNTY

PROJECT BEGINS STA. 42+22

PROJECT ENDS STA. 150+27

LOCATED IN THE LEYDEN TWP. & JEFFERSON TWP.

GROSS LENGTH = 10,805.0 FT. = 2.046 MILE
NET LENGTH = 10,805.0 FT. = 2.046 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 15 20 12
John Fortmann
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7 20 12
John D. Baranzelli P.E. /BL
acting ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 20 12
William B. Frey /BL
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
3-6	SUMMARY OF QUANTITIES
7-12	EXISTING AND PROPOSED TYPICAL SECTIONS
13-15	SUGGESTED SEQUENCE OF STAGING
16	GENERAL LOCATION PLAN
17-28	ROADWAY PLANS
29-31	SLOTTED DRAIN DETAILS
32-43	PAVEMENT MARKING PLANS
44-57	INDUCTOR LOOP REPLACEMENT PLANS
58-60	DETECTOR LOOP REPLACEMENT PLANS
61	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
62	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
63	BUTT JOINT AND HMA TAPER DETAILS
64	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
65	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE, SINGLE & MULTI-LANE WEAVE
66	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
67	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
68-69	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
70	DISTRICT 1 TYPICAL PAVEMENT MARKINGS
71	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
72	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
73	TRAFFIC CONTROL DETAIL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
74	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
75	ARTERIAL ROAD INFORMATION SIGN
76	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE
77	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
77A	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
78-85	INDUCTION LOOP DETAILS

STANDARD NO.	DESCRIPTION
000001-06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
420001-07	PAVEMENT JOINTS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHOULDER STRIPS / SHOULDER WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS.
604001-03	FRAMES AND LIDS, TYPE 1
642001-02	SHOULDER RUMBLE STRIPS
701400-06	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-07	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701426-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701446-04	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701901-03	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKING
886001-01	DETECTOR LOOP INSTALLATION

CITY OF CHICAGO NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION REQUIRED).
2. ALL CATCH BASINS IN THE CITY OF CHICAGO MUST MEET THE DEPARTMENT OF SEWERS' STANDARDS.
3. PERMITS FROM THE DEPARTMENT OF SEWERS ARE REQUIRED FOR ALL UNDERGROUND STORM, SANITARY OR COMBINED SEWER SYSTEM CONSTRUCTION, AND FOR RESURFACING WORK INVOLVING ADJUSTMENT OF SEWER STRUCTURES. THE DEPARTMENT OF SEWERS' PERMIT MUST BE OBTAINED BY A LICENSED SEWER DRAIN LAYER PRIOR TO START OF CONSTRUCTION.
4. BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED IN SUITE 410 - 333 SOUTH STATE STREET, CHICAGO, IL 60604. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACEMENT OF ANY BENCH MONUMENT IF DAMAGED OR DESTROYED DURING CONSTRUCTION.
5. OPEN LID DRAINAGE STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION OF THIS ROADWAY WITHOUT THE WRITTEN PERMISSION FROM THE CITY OF CHICAGO.
6. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY OF CHICAGO AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND LANE CLOSURES WITH MARCOS FERNANDEZ OF THE CHICAGO DEPARTMENT OF AVIATION (CDA) AT (773) 894-2085.

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF ROSEMONT AND THE CITY OF CHICAGO, AND THE ILLINOIS TOLLWAY AUTHORITY.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
4. PERMANENT PAVEMENT MARKINGS SHALL BE AS SPECIFIED IN THE PLANS AND SHOULD BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" AND THE "FREEWAY PAVEMENT MARKING" DETAILS.
5. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT PATCHING AND CURB LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
9. THE RESIDENT ENGINEER SHALL CONTACT THE EXPRESSWAY FIELD ENGINEER AT (847) 705-4153 A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
10. THE RESIDENT ENGINEER SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, MATTHEW DAEDA, AT (847) 705-4155 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
11. ALL EXISITING DETECTOR LOOPS NOT SPECIFIED IN THE PLANS THAT ARE REMOVED DUE TO MILLING OPERATIONS SHALL BE REPLACED AND PAID FOR AT THE CONTRACT UNIT PRICE.
12. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
13. SAW CUTTING OF PAVEMENTS SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
15. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
16. THE MAXIMUM GRADE DIFFERENTIAL PERTAINING TO THE MILLING AND PAVING OPERATIONS SHALL BE IN ACCORDANCE WITH ARTICLE 701.07 OF THE STANDARD SPECIFICATIONS.
17. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
18. ALL PERMANANT PAVEMENT MARKINGS APPLIED TO BRIDGE DECKS DESIGNATED IN THE PLANS SHALL CONSIST OF POLYUREA.
19. TEMPORARY HOT-MIX ASPHALT RAMPS SHALL BE CONSTRUCTED AROUND EACH EXPOSED DRAINAGE AND UTILITY STRUCTURE CASTING AS DETERMINED BY THE ENGINEER AND AS OUTLINED IN THE SPECIAL PROVISIONS. THE CONSTRUCTION OF THE TEMPORARY HOT-MIX ASPHALT RAMP AND REMOVAL SHALL BE PAID FOR IN ACCORDANCE TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	2
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 90% FED 10% STATE 0005					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	118	118					
40600300	AGGREGATE (PRIME COAT)	TON	588	588					
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	221	221					
	FLANGEWAYS								
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	1081	1081					
	METHOD), IL-4.75, N50								
40600895	CONSTRUCTING TEST STRIP	EACH	5	5					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	1442	1442					
	JOINT								
40600985	PORTLAND CEMENT CONCRETE SURFACE	SQ YD	189	189					
	REMOVAL - BUTT JOINT								
40601005	HOT-MIX ASPHALT REPLACEMENT OVER	TON	354	354					
	PATCHES								
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0,	TON	6211	6211					
	N70								
40603148	POLYMERIZED HOT-MIX ASPHALT BINDER	TON	9782	9782					
	COURSE, STONE MATRIX ASPHALT, N80								
40603153	POLYMERIZED HOT-MIX ASPHALT SURFACE	TON	9782	9782					
	COURSE, STONE MATRIX ASPHALT, N80								

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 90% FED 10% STATE 0005					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX	TON	6340	6340					
	"D", N70								
42001300	PROTECTIVE COAT	SQ YD	184	184					
44000100	PAVEMENT REMOVAL	SQ YD	299	299					
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1699	1699					
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	96992	96992					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	25103	25103					
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	47593	47593					
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	23963	23963					
44002220	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 5"	SQ YD	1263	1263					
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	811	811					
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	216	216					
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	71	71					
44213200	SAW CUTS	FOOT	759	759					
*	SPECIALTY ITEM								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-190 (O'HARE AIRPORT TO I-90)
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5) RS-2	COOK	85	3
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE 0005					
44300200	STRIP REFLECTIVE CRACK CONTROL	FOOT	1080	1080					
	TREATMENT								
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2683	2683					
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	3	3					
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3					
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4					
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	8	8					
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	4	4					
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	4	4					
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	24438	24438					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
67100100	MOBILIZATION	L SUM	1	1					
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	19	19					
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1					
70300510	PAVEMENT MARKING TAPE, TYPE III -	SQ FT	791	791					
	LETTERS AND SYMBOLS								

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE 0005					
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	41156	41156					
70300530	PAVEMENT MARKING TAPE, TYPE III 5"	FOOT	5863	5863					
70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	1232	1232					
70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	14360	14360					
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	336	336					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	47355	47355					
* 78000100	THERMOPLASTIC PAVEMENT MARKING -	SQ FT	791	791					
	LETTERS AND SYMBOLS								
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	41154	41154					
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1232	1232					
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	14940	14940					
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	6905	6905					
	* SPECIALTY ITEM								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-190 (O'HARE AIRPORT TO I-90)
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.68&0102.5) RS-2	COOK	85	4
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE 0005					
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	102	102					
*	78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	5863	5863					
*	78005120	EPOXY PAVEMENT MARKING - LINE 5"	FOOT	14516	14516					
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	4580	4580					
*	78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	832	832					
*	78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	1474	1474					
*	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	149	149					
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1124	1124					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1011	1011					
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	957	957					
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	921	921					

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE 0005					
*	X0322440	DIGITAL LOOP DETECTOR SENSOR UNIT (2 CHANNEL)	EACH	1	1					
*	X0322442	TONE EQUIPMENT - 3 FREQUENCY RECEIVER PROGRAMMABLE	EACH	1	1					
*	X0322443	TONE EQUIPMENT - 3 FREQUENCY TRANSMITTER PROGRAMMABLE	EACH	1	1					
*	X0322727	POLYETHYLENE DUCT 1 1/4"	FOOT	50	50					
	X2020110	GRADING AND SHAPING SHOULDERS	UNIT	224	224					
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	738	738					
△	X5537700	STORM SEWERS TO BE CLEANED 10"	FOOT	1600	1600					
△	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	2500	2500					
△	X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	1300	1300					
	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1					
	X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	5	5					
*		SPECIALTY ITEM △100% STATE								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-190 (O'HARE AIRPORT TO I-90)
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5) RS-2	COOK	85	5
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE 0005					
*	X8730245	ELECTRIC CABLE IN CONDUIT, NO. 18, 2	FOOT	7798	7798					
		PAIR TWISTED, SHIELDED								
*	X8850102	INDUCTION LOOP	FOOT	803	803					
	Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	550	550					
		REMOVAL AND REPLACEMENT								
△	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	50	50					
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103					
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					
	Z0065745	SLOTTED DRAIN 12" WITH 2 1/2" SLOT	FOOT	667	667					

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES						

* SPECIALTY ITEM
△ 100% STATE

FILE NAME:	USER NAME: rodriguezmo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-190 (O'HARE AIRPORT TO I-90) SUMMARY OF QUANTITIES	F.A.I. RTE. 190	SECTION (0101.6&0102.5) RS-2	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 6
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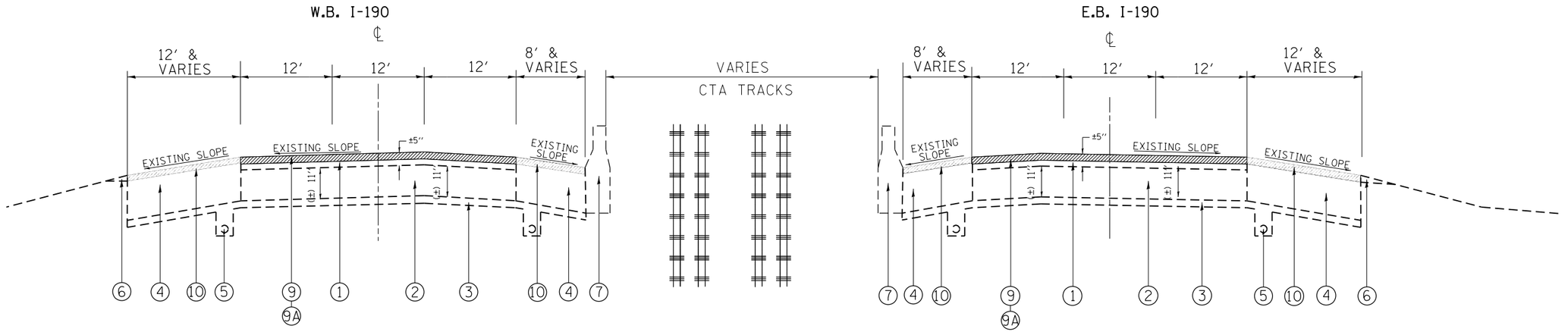
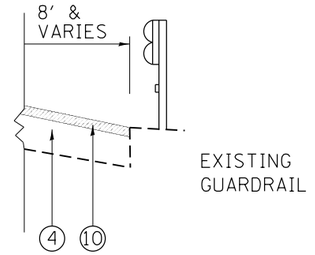
	PLOT DATE: 10/18/2012	CHECKED -	REVISED -			FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
		DATE -	REVISED -							



I-190
EXISTING TYPICAL CROSS SECTION
E.B. STA. 43+40 TO STA. 51+07
W.B. STA. 42+22 TO STA. 75+24
E.B. STA. 70+68 TO STA. 91+81

EXISTING TYPICAL CROSS SECTION



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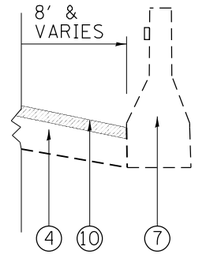

LEGEND

① EXISTING HOT-MIX ASPHALT SURF. CSE., ± 5″
② EXISTING C.R.C. PAVEMENT, 11″
③ EXISTING SUB-BASE GRAN. MATL., 6″
④ EXISTING HOT-MIX ASPHALT SHOULDER
⑤ EXISTING PIPE UNDERDRAIN
⑥ EXISTING AGGREGATE SHOULDER TYPE ″B″
⑦ EXISTING CONC BARRIER WALL SINGLE FACE
⑧ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4″ (RAMPS)
⑨ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2″ (MAINLINE) **
⑨A PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4″ (MAINLINE) **
⑩ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4″ (OUTSIDE & INSIDE MAINLINE SHOULDERS)
⑪ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2″
⑫ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2″
⑬ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 2 1/4″
⑭ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX. ″D″, N70, 1½″
⑮ PROPOSED SHOULDER RUMBLE STRIP, 16″
⑯ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE ″B″
⑰ PROPOSED GRADING AND SHAPING SHOULDER
⑱ PROPOSED POLYMERIZED LEVELING BINDER, IL-4.75, N50, 3/4″

*CONTRACTOR SHALL PATCH BEFORE MILLING
**SEE SUGGESTED SEQUENCE OF STAGING FOR PROPOSED MILLING THICKNESS.

* PFP APPLIES TO SMA SURFACE COURSE AND SMA BINDER ONLY.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS(%) @ N_{DES}
MAINLINE RESURFACING	
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80	3.5% @ 80 GYR.
POLYMERIZED HMA BINDER COURSE, STONE MATRIX ASPHALT, N80	3.5% @ 80 GYR.
RAMPS RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX ″D″, N70 (IL 9.5 mm)	4% @ 70 GYR.
POLY. LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 GYR.
OUTSIDE & INSIDE SHOULDER RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX ″D″, N70 (IL 9.5 mm)	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, N70 (IL-19.0 mm)	4% @ 70 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-25 mm)	4% @ 105 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.

NOTES: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQYD/IN.
THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE ″SBS/SBR PG 76 -22″ AND FOR NON-POLYMERIZED HMA THE ″AC TYPE″ SHALL BE ″PG 64 -22″ UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISIONS.
FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

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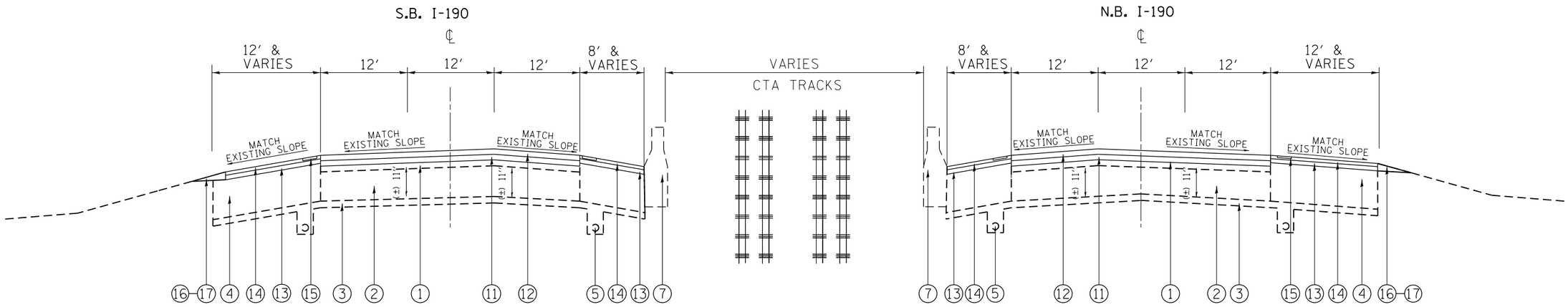
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

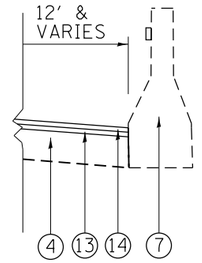
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	7
		CONTRACT NO. 60T33		
	ILLINOIS	FED. AID PROJECT		



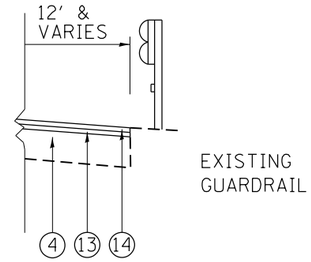
I-190
PROPOSED TYPICAL CROSS SECTION

E.B. STA. 43+40 TO STA. 51+07
W.B. STA. 42+22 TO STA. 75+24
E.B. STA. 70+68 TO STA. 91+81

PROPOSED TYPICAL CROSS SECTION



PROPOSED TYPICAL CROSS SECTION



LEGEND

(1) EXISTING HOT-MIX ASPHALT SURF. CSE., ± 5″
(2) EXISTING C.R.C. PAVEMENT, 11″
(3) EXISTING SUB-BASE GRAN. MATL., 6″
(4) EXISTING HOT-MIX ASPHALT SHOULDER
(5) EXISTING PIPE UNDERDRAIN
(6) EXISTING AGGREGATE SHOULDER TYPE ″B″
(7) EXISTING CONC BARRIER WALL SINGLE FACE
(8) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4″ (RAMPS)
(9) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2″ (MAINLINE) **
(9A) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4″ (MAINLINE) **
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(12) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2″
(13) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 2 1/4″
(14) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX. ″D″, N70, 1½″
(15) PROPOSED SHOULDER RUMBLE STRIP, 16″
(16) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE ″B″
(17) PROPOSED GRADING AND SHAPING SHOULDER
(18) PROPOSED POLYMERIZED LEVELING BINDER, IL-4.75, N50, 3/4″

*CONTRACTOR SHALL PATCH BEFORE MILLING
**SEE SUGGESTED SEQUENCE OF STAGING FOR PROPOSED MILLING THICKNESS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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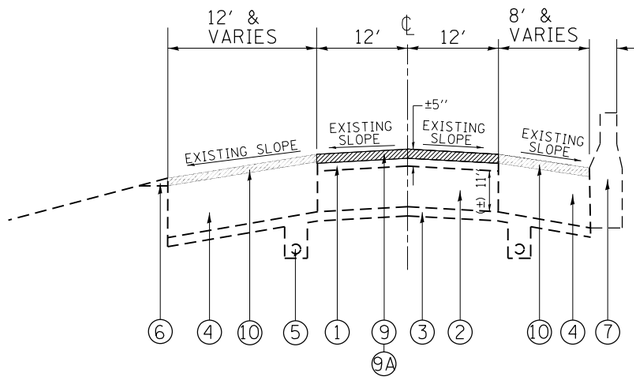
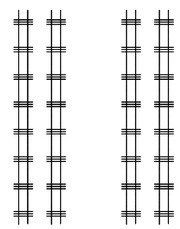
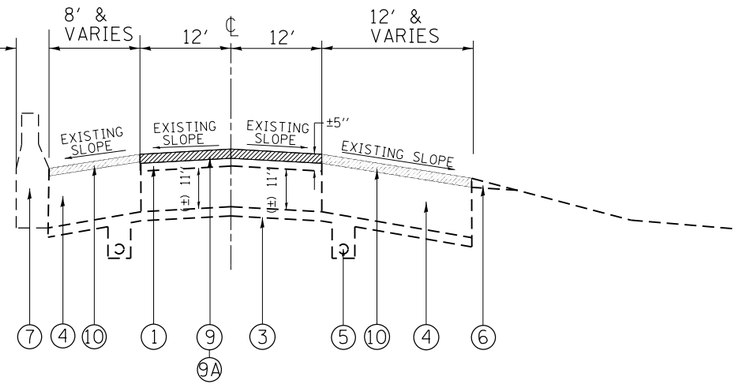
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

W.B. I-190





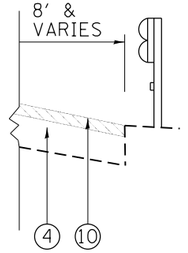
E.B. I-190



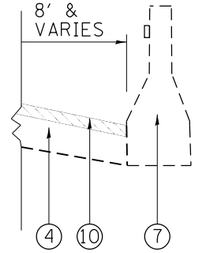
I-190
EXISTING TYPICAL CROSS SECTION

E.B. STA. 51+07 TO STA. 70+68
W.B. STA. 75+24 TO STA. 142+56
E.B. STA. 91+81 TO STA. 143+48

EXISTING TYPICAL CROSS SECTION



EXISTING TYPICAL CROSS SECTION



LEGEND

(1) EXISTING HOT-MIX ASPHALT SURF. CSE., ± 5"
(2) EXISTING C.R.C. PAVEMENT, 11"
(3) EXISTING SUB-BASE GRAN. MATL., 6"
(4) EXISTING HOT-MIX ASPHALT SHOULDER
(5) EXISTING PIPE UNDERDRAIN
(6) EXISTING AGGREGATE SHOULDER TYPE "B"
(7) EXISTING CONC BARRIER WALL SINGLE FACE
(8) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (RAMPS)
(9) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2" (MAINLINE) **
(9A) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4" (MAINLINE) **
(10) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (OUTSIDE & INSIDE MAINLINE SHOULDERS)
(11) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
(12) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
(13) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 2 1/4"
(14) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX. "D", N70, 1½"
(15) PROPOSED SHOULDER RUMBLE STRIP, 16"
(16) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE "B"
(17) PROPOSED GRADING AND SHAPING SHOULDER
(18) PROPOSED POLYMERIZED LEVELING BINDER, IL-4.75, N50, 3/4"

*CONTRACTOR SHALL PATCH BEFORE MILLING
**SEE SUGGESTED SEQUENCE OF STAGING FOR PROPOSED MILLING THICKNESS.

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	PLOT DATE = 10/18/2012	DATE -	REVISED -

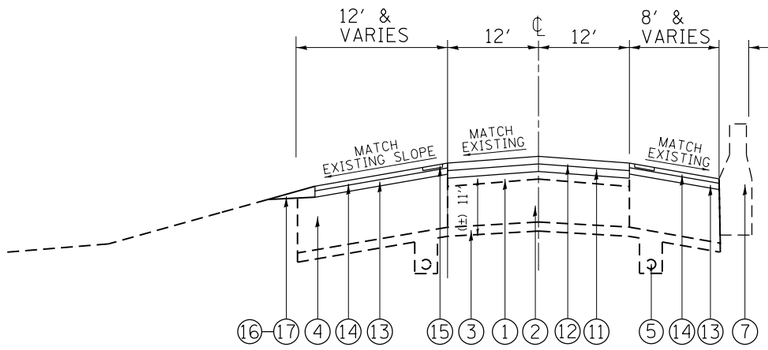
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

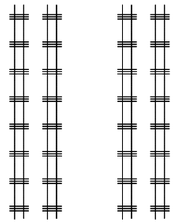
EXISTING AND PROPOSED TYPICAL SECTIONS
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

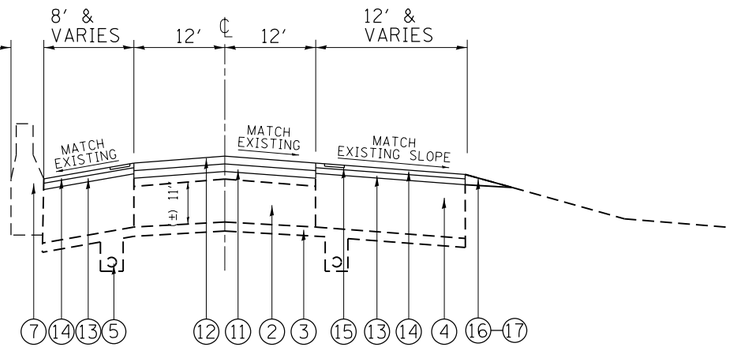
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	9
		CONTRACT NO. 60T33		
	ILLINOIS	FED. AID PROJECT		

S.B. I-190





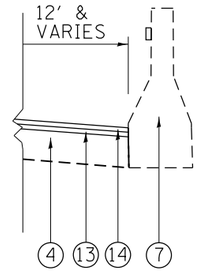
N.B. I-190



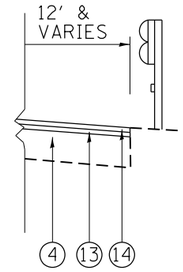
I-190
PROPOSED TYPICAL CROSS SECTION

E.B. STA. 51+07 TO STA. 70+68
W.B. STA. 75+24 TO STA. 142+56
E.B. STA. 91+81 TO STA. 143+48

PROPOSED TYPICAL CROSS SECTION



PROPOSED TYPICAL CROSS SECTION



EXISTING GUARDRAIL

LEGEND

(1) EXISTING HOT-MIX ASPHALT SURF. CSE., ± 5″
(2) EXISTING C.R.C. PAVEMENT, 11″
(3) EXISTING SUB-BASE GRAN. MATL., 6″
(4) EXISTING HOT-MIX ASPHALT SHOULDER
(5) EXISTING PIPE UNDERDRAIN
(6) EXISTING AGGREGATE SHOULDER TYPE ″B″
(7) EXISTING CONC BARRIER WALL SINGLE FACE
(8) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4″ (RAMPS)
(9) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2″ (MAINLINE) **
(9A) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4″ (MAINLINE) **
(10) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4″ (OUTSIDE & INSIDE MAINLINE SHOULDERS)
(11) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2″
(12) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2″
(13) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 2 1/4″
(14) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX. ″D″, N70, 1½″
(15) PROPOSED SHOULDER RUMBLE STRIP, 16″
(16) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE ″B″
(17) PROPOSED GRADING AND SHAPING SHOULDER
(18) PROPOSED POLYMERIZED LEVELING BINDER, IL-4.75, N50, 3/4″

*CONTRACTOR SHALL PATCH BEFORE MILLING
**SEE SUGGESTED SEQUENCE OF STAGING FOR PROPOSED MILLING THICKNESS.

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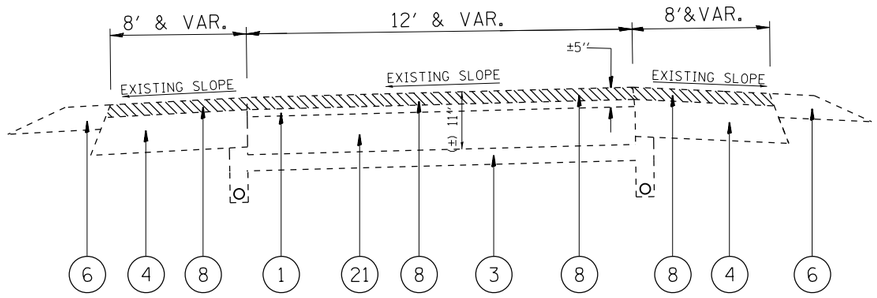
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

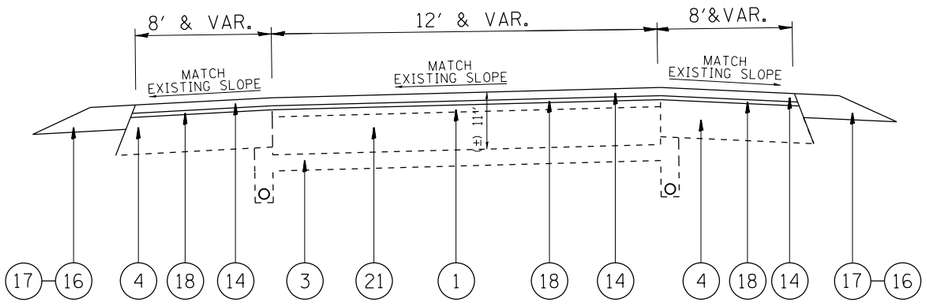
EXISTING AND PROPOSED TYPICAL SECTIONS
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	10
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION FOR RAMPS



PROPOSED TYPICAL SECTION FOR RAMPS

LEGEND

(1) EXISTING HOT-MIX ASPHALT SURF. CSE., ± 5''
(2) EXISTING C.R.C. PAVEMENT, 11''
(3) EXISTING SUB-BASE GRAN. MATL., 6''
(4) EXISTING HOT-MIX ASPHALT SHOULDER
(5) EXISTING PIPE UNDERDRAIN
(6) EXISTING AGGREGATE SHOULDER TYPE ''B''
(7) EXISTING CONC BARRIER WALL SINGLE FACE
(8) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4'' (RAMPS)
(9) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2'' (MAINLINE) **
(9A) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4'' (MAINLINE) **
(10) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4'' (OUTSIDE & INSIDE MAINLINE SHOULDERS)
(11) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2''
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(13) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 2 1/4''
(14) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX. ''D'', N70, 1½''
(15) PROPOSED SHOULDER RUMBLE STRIP
(16) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE ''B''
(17) PROPOSED GRADING AND SHAPING SHOULDER
(18) PROPOSED POLYMERIZED LEVELING BINDER, IL-4.75, N50, 3/4''
(19) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2''
(20) STRIP REFLECTIVE CRACK CONTROL TREATMENT
(21) EXISTING P.C.C. PAVEMENT, 12''
(22) EXISTING HOT-MIX ASPHALT PAVEMENT, 12''

*CONTRACTOR SHALL PATCH BEFORE MILLING

**SEE SUGGESTED SEQUENCE OF STAGING FOR PROPOSED MILLING THICKNESS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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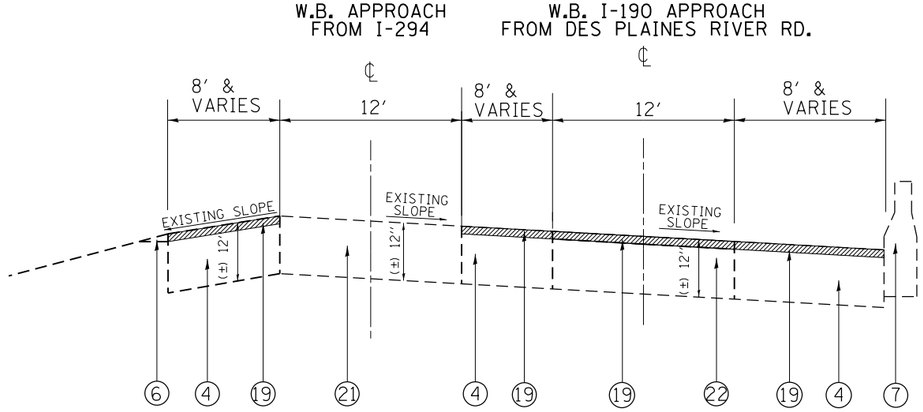
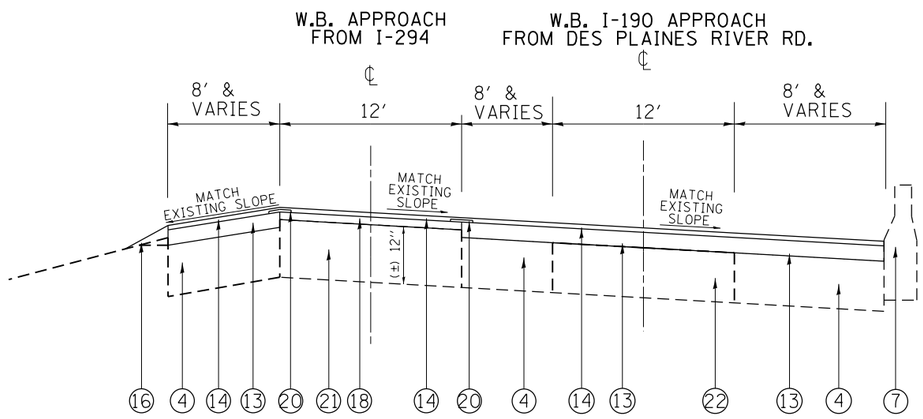
		CONTRACT NO. 60T33		
		ILLINOIS FED. AID PROJECT		



DES PLAINES RIVER RD. RAMP 2
EXISTING TYPICAL CROSS SECTION
STA. 3+00 TO STA. 6+56



DES PLAINES RIVER RD. RAMP 2
PROPOSED TYPICAL CROSS SECTION
STA. 3+00 TO STA. 6+56

LEGEND

(1) EXISTING HOT-MIX ASPHALT SURF. CSE., ± 5″
(2) EXISTING C.R.C. PAVEMENT, 11″
(3) EXISTING SUB-BASE GRAN. MATL., 6″
(4) EXISTING HOT-MIX ASPHALT SHOULDER
(5) EXISTING PIPE UNDERDRAIN
(6) EXISTING AGGREGATE SHOULDER TYPE ″B″
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(14) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX. ″D″, N70, 1½″
(15) PROPOSED SHOULDER RUMBLE STRIP
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(17) PROPOSED GRADING AND SHAPING SHOULDER
(18) PROPOSED POLYMERIZED LEVELING BINDER, IL-4.75, N50, 3/4″
(19) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2″
(20) STRIP REFLECTIVE CRACK CONTROL TREATMENT
(21) EXISTING P.C.C. PAVEMENT, 12″
(22) EXISTING HOT-MIX ASPHALT PAVEMENT, 12″

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
I-190 (O'HARE AIRPORT TO I-90)

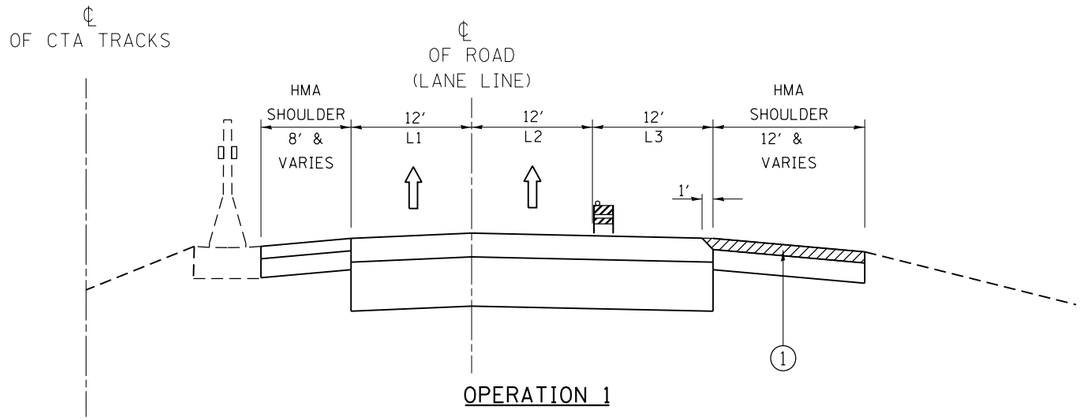
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	12
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

NOTE:

PATCHING WORK TO BE DONE BEFORE MILLING

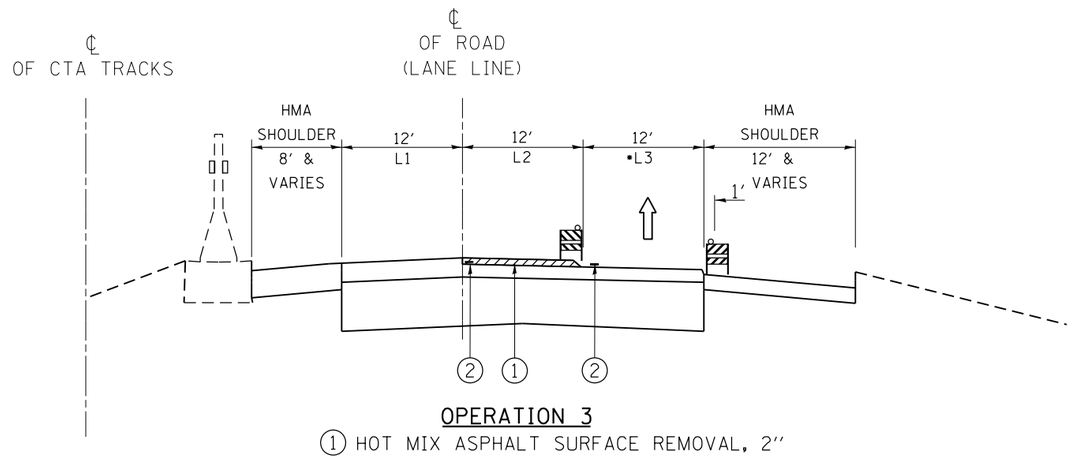
I-190 (EAST BOUND) & (WEST BOUND)



OPERATION 1

① HOT MIX ASPHALT SURFACE REMOVAL, 3 3/4''

I-190 (EAST BOUND) & (WEST BOUND)



OPERATION 3

① HOT MIX ASPHALT SURFACE REMOVAL, 2''

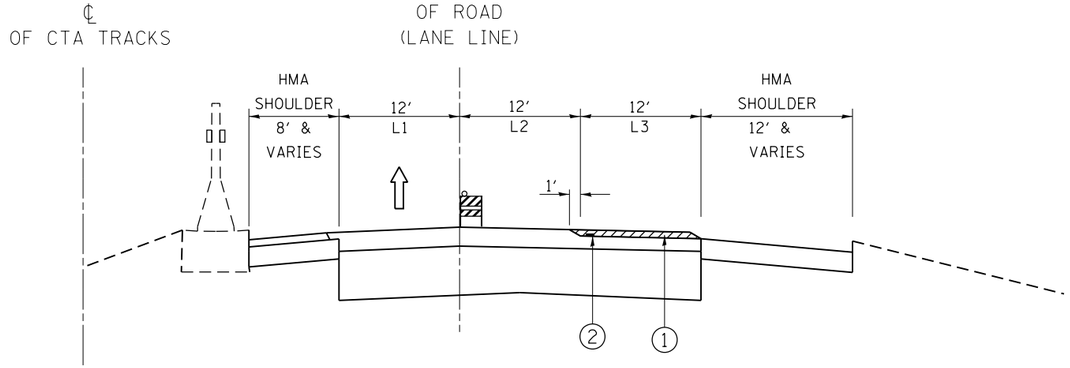
② EPOXY PAVEMENT MARKING, 5''
LANE LINE (SKIP-DASH)

* OMIT LANE 3 WHEN IN A 2 LANE SECTION

NOTE:

1. BARRICADES/DRUMS TO BE PLACED ON THE SHOULDER WITHIN 2' OF THE EDGE OF THE PAVEMENT DURING NON-WORKING HOURS

I-190 (EAST BOUND) & (WEST BOUND)

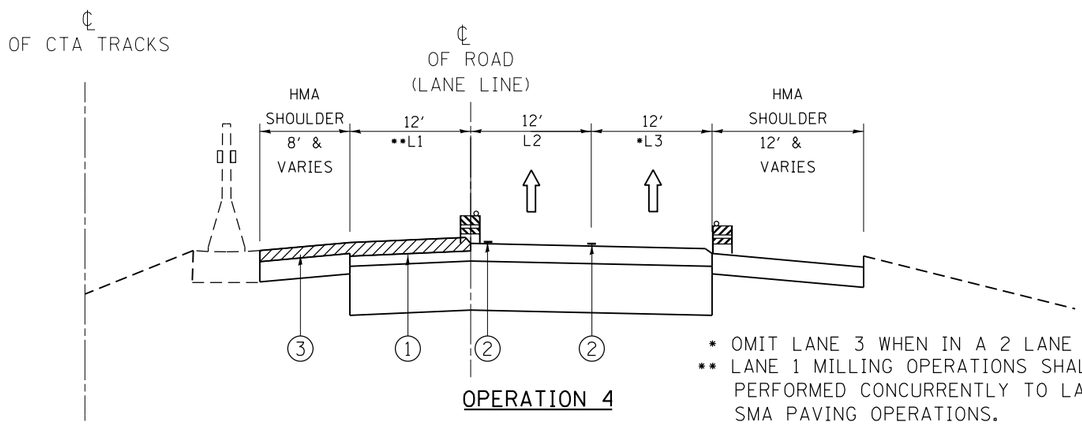


OPERATION 2

① HOT MIX ASPHALT SURFACE REMOVAL, 2''

② EPOXY PAVEMENT MARKING, 5''
LANE LINE (SKIP-DASH)

I-190 (EAST BOUND) & (WEST BOUND)



OPERATION 4

① HOT MIX ASPHALT SURFACE REMOVAL, 4''

② EPOXY PAVEMENT MARKING, 5''
LANE LINE (SKIP-DASH)

③ HOT MIX ASPHALT SURFACE REMOVAL, 3 3/4''

* OMIT LANE 3 WHEN IN A 2 LANE SECTION

** LANE 1 MILLING OPERATIONS SHALL BE PERFORMED CONCURRENTLY TO LANE 1 SMA PAVING OPERATIONS.

NOTE:

1. BARRICADES/DRUMS TO BE PLACED ON THE SHOULDER WITHIN 2' OF THE EDGE OF THE PAVEMENT DURING NON-WORKING HOURS

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	PLOT DATE = 10/18/2012	DATE -	REVISED -

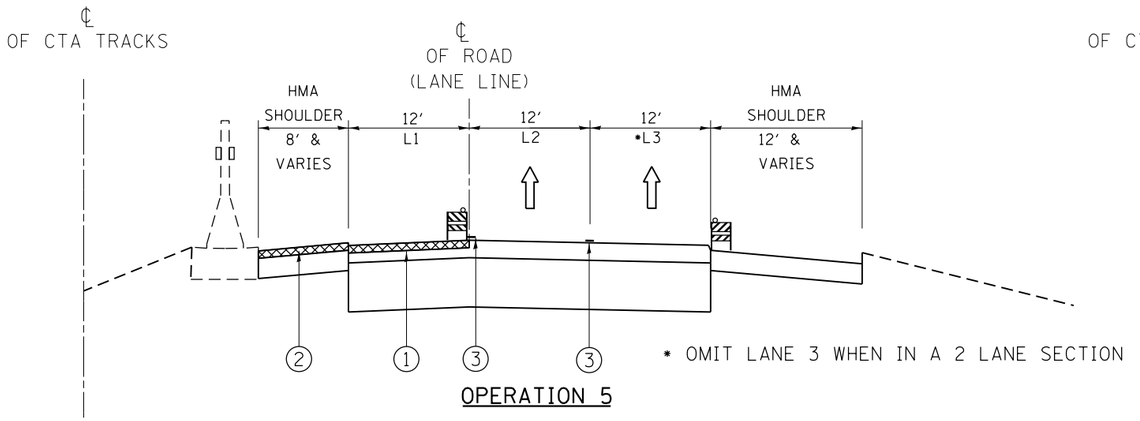
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED SEQUENCE OF STAGING
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	13
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

I-190 (EAST BOUND) & (WEST BOUND)



* OMIT LANE 3 WHEN IN A 2 LANE SECTION

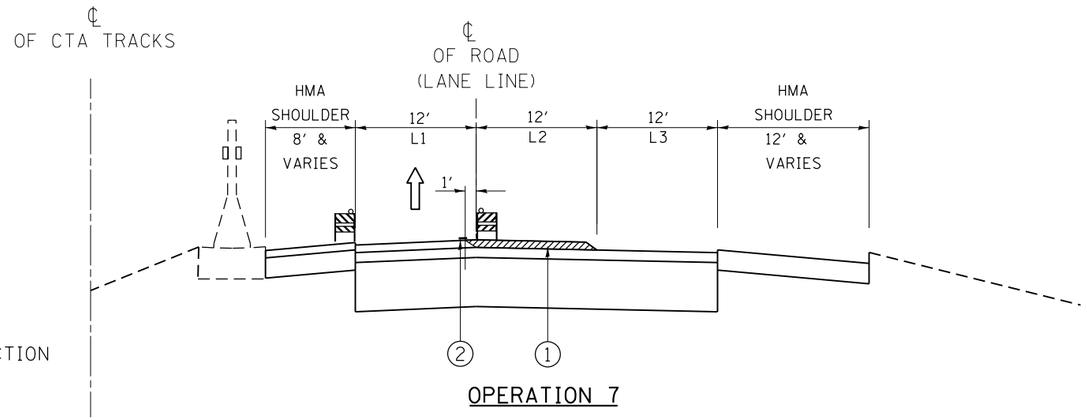
OPERATION 5

① PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2″

② PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 2 1/4″

③ EPOXY PAVEMENT MARKING, 5″ LANE LINE (SKIP-DASH)

I-190 (EAST BOUND) & (WEST BOUND)



OPERATION 7

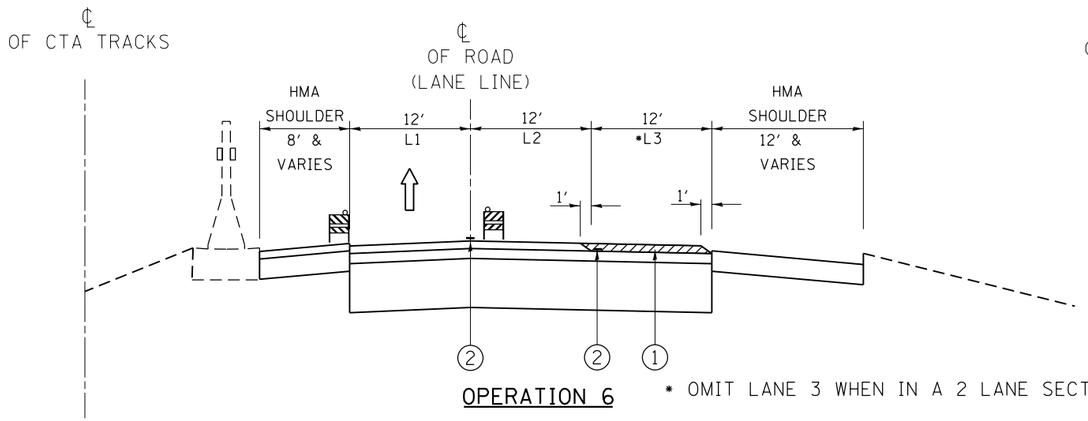
① HOT MIX ASPHALT SURFACE REMOVAL, 2″

② EPOXY PAVEMENT MARKING, 5″ LANE LINE (SKIP-DASH)

NOTE:

1. BARRICADES/DRUMS TO BE PLACED ON THE SHOULDER WITHIN 2′ OF THE EDGE OF THE PAVEMENT DURING NON-WORKING HOURS

I-190 (EAST BOUND) & (WEST BOUND)



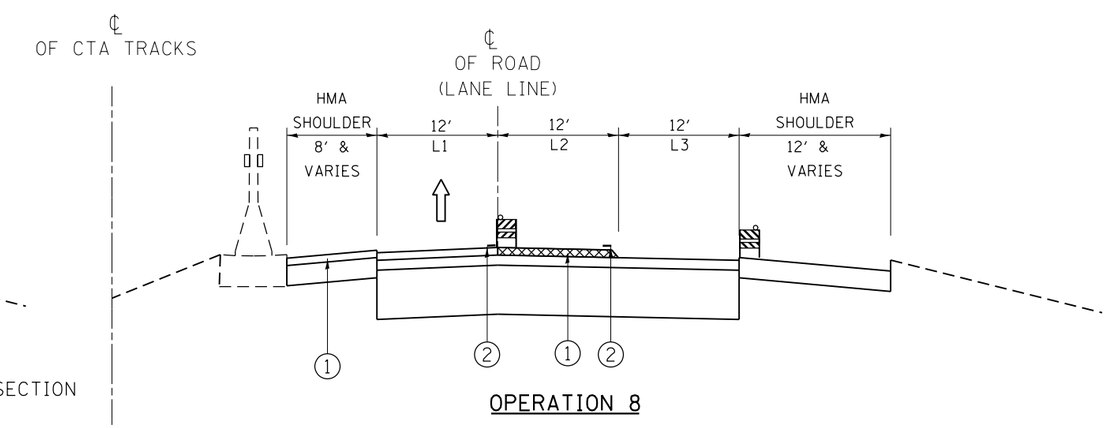
OPERATION 6

* OMIT LANE 3 WHEN IN A 2 LANE SECTION

① HOT MIX ASPHALT SURFACE REMOVAL, 2″

② EPOXY PAVEMENT MARKING, 5″ LANE LINE (SKIP-DASH)

I-190 (EAST BOUND) & (WEST BOUND)



OPERATION 8

① PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 2 1/4″

② EPOXY PAVEMENT MARKING, 5″ LANE LINE (SKIP-DASH)

NOTE:

1. BARRICADES/DRUMS TO BE PLACED ON THE SHOULDER WITHIN 2′ OF THE EDGE OF THE PAVEMENT DURING NON-WORKING HOURS

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	PLOT DATE = 10/18/2012	DATE -	REVISED -

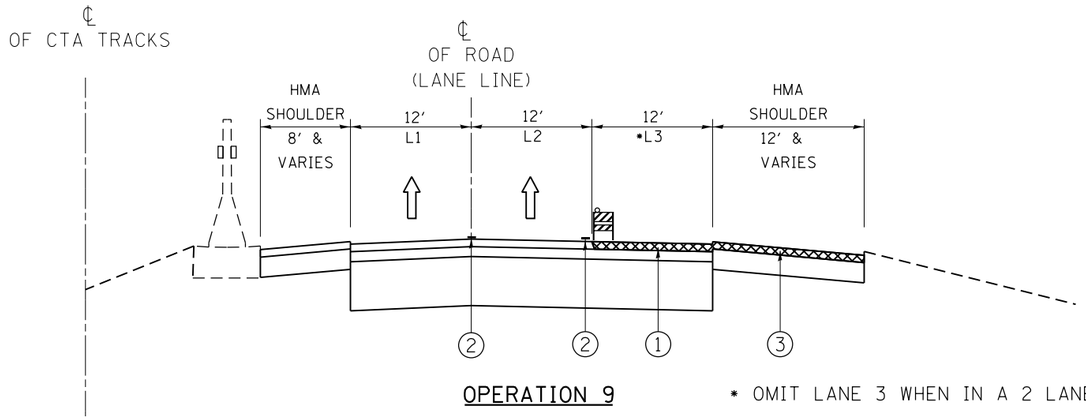
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED SEQUENCE OF STAGING
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-1	COOK	85	14
		CONTRACT NO. 60T33		
	ILLINOIS	FED. AID PROJECT		

I-190 (EAST BOUND) & (WEST BOUND)



OPERATION 9

* OMIT LANE 3 WHEN IN A 2 LANE SECTION

① PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2''

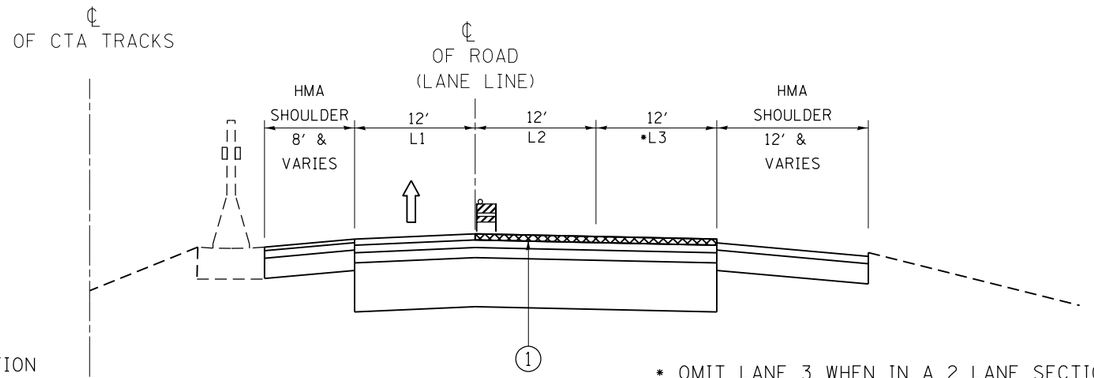
② EPOXY PAVEMENT MARKING, 5'' LANE LINE (SKIP-DASH)

③ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 2 1/4''

NOTE:

1. BARRICADES/DRUMS TO BE PLACED ON THE SHOULDER WITHIN 2' OF THE EDGE OF THE PAVEMENT DURING NON-WORKING HOURS

I-190 (EAST BOUND) & (WEST BOUND)

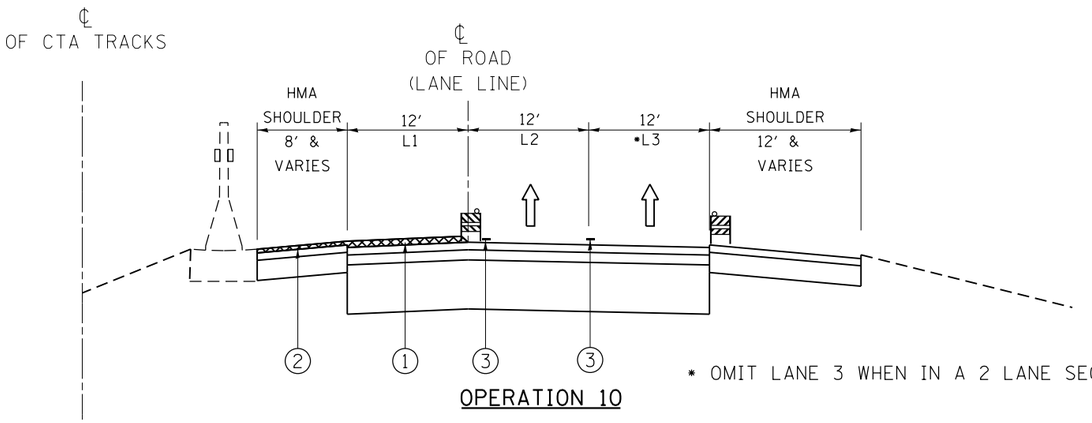


OPERATION 11

* OMIT LANE 3 WHEN IN A 2 LANE SECTION

① PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2''

I-190 (EAST BOUND) & (WEST BOUND)



OPERATION 10

* OMIT LANE 3 WHEN IN A 2 LANE SECTION

① PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2''

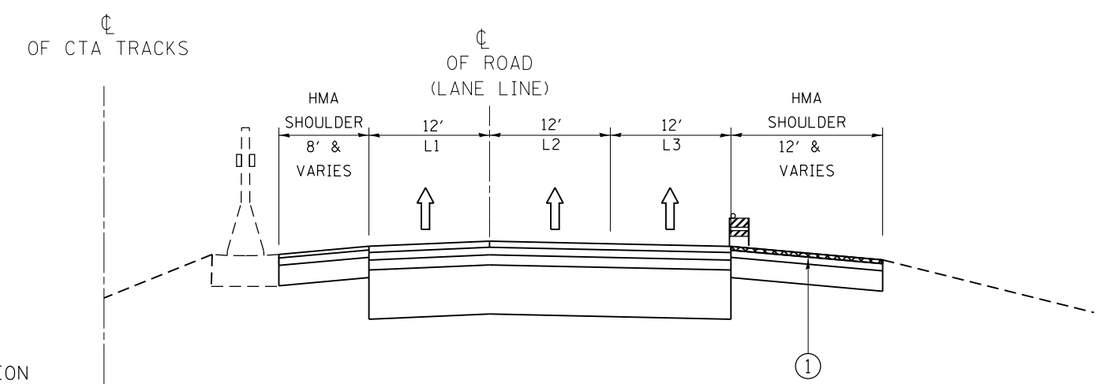
② PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX. ''D'', N70, 1 1/2 ''

③ EPOXY PAVEMENT MARKING, 5'' LANE LINE (SKIP-DASH)

NOTE:

1. BARRICADES/DRUMS TO BE PLACED ON THE SHOULDER WITHIN 2' OF THE EDGE OF THE PAVEMENT DURING NON-WORKING HOURS

I-190 (EAST BOUND) & (WEST BOUND)



OPERATION 12

① PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX. ''D'', N70, 1½''

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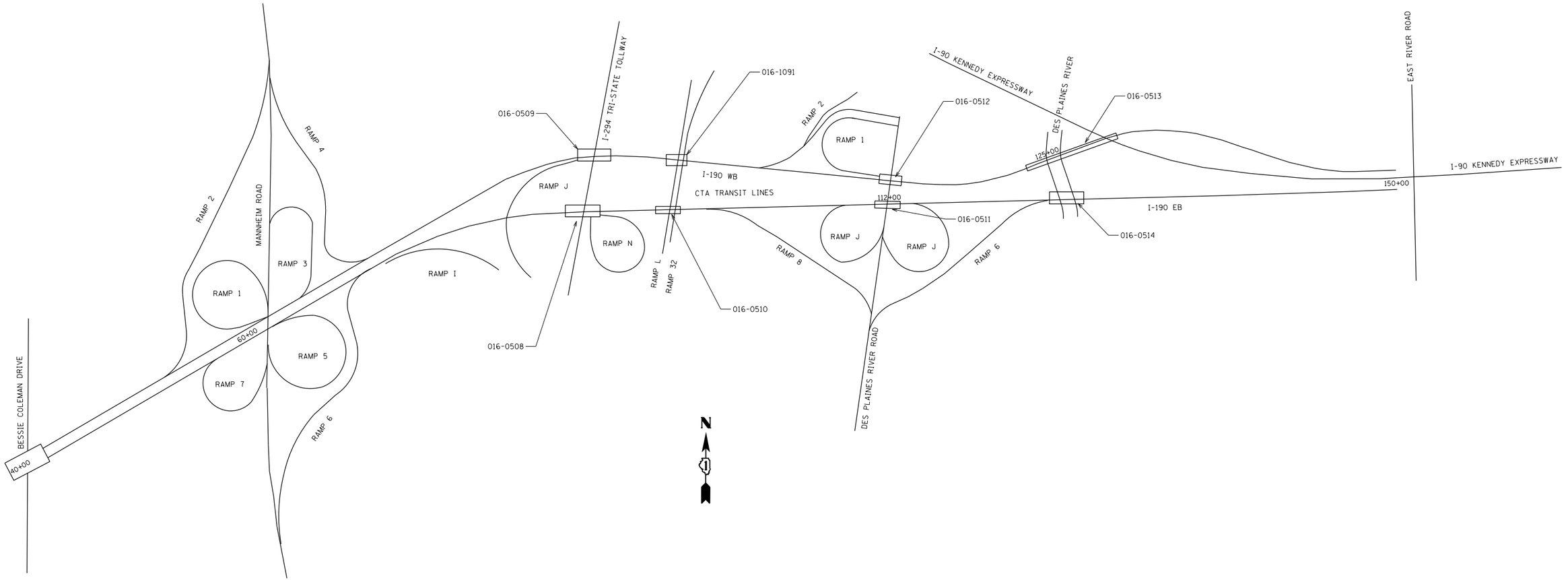
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED SEQUENCE OF STAGING
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-1	COOK	85	15
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



LOCATION PLAN PROVIDED FOR REFERENCE ONLY.

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	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

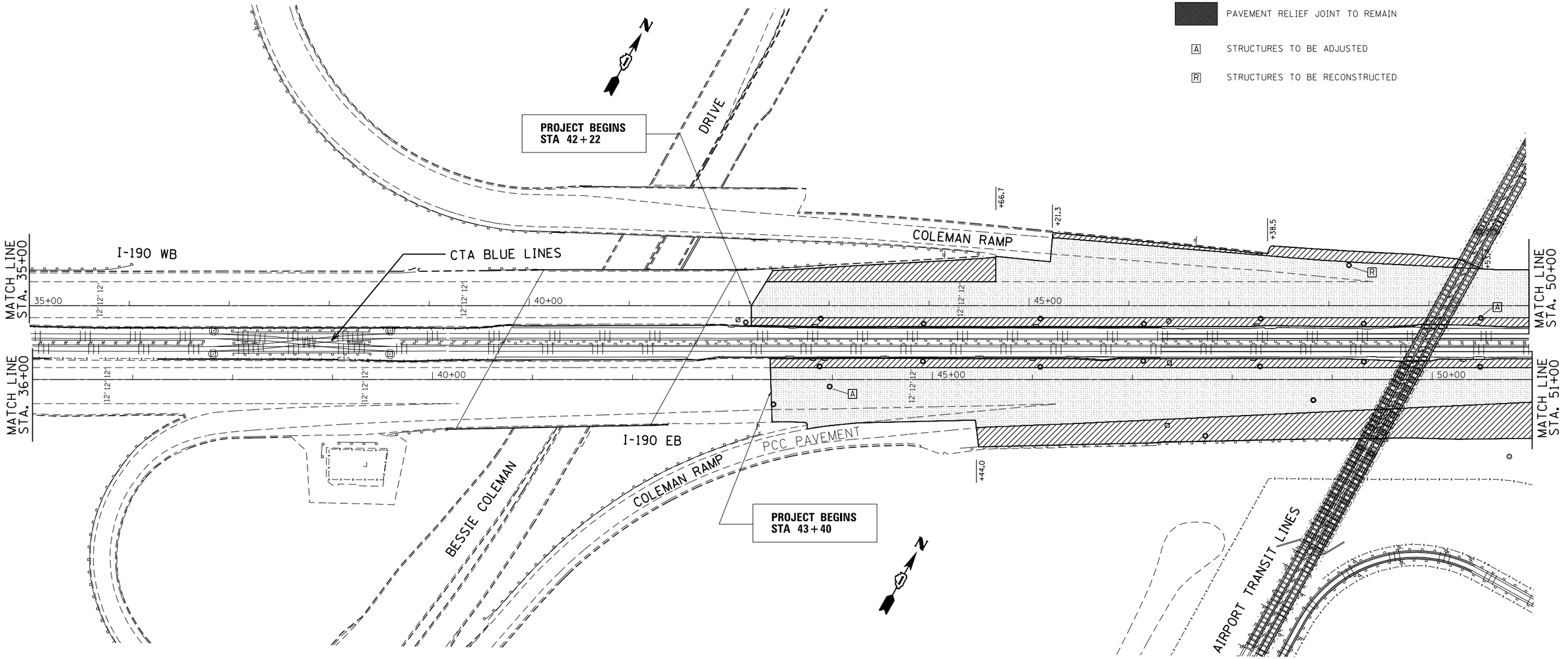
GENERAL LOCATION PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5) RS-2	COOK	85	16
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

LEGEND

- PROP. HMA MAINLINE SURFACE REMOVAL, 4"
  PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
  PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"
- PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
  PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
  PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"
- PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
  PROP. HMA SURFACE COURSE,, MIX. "D" N70, 1 1/2"
  PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"
- PAVEMENT RELIEF JOINT TO REMAIN
- [A] STRUCTURES TO BE ADJUSTED
- [R] STRUCTURES TO BE RECONSTRUCTED



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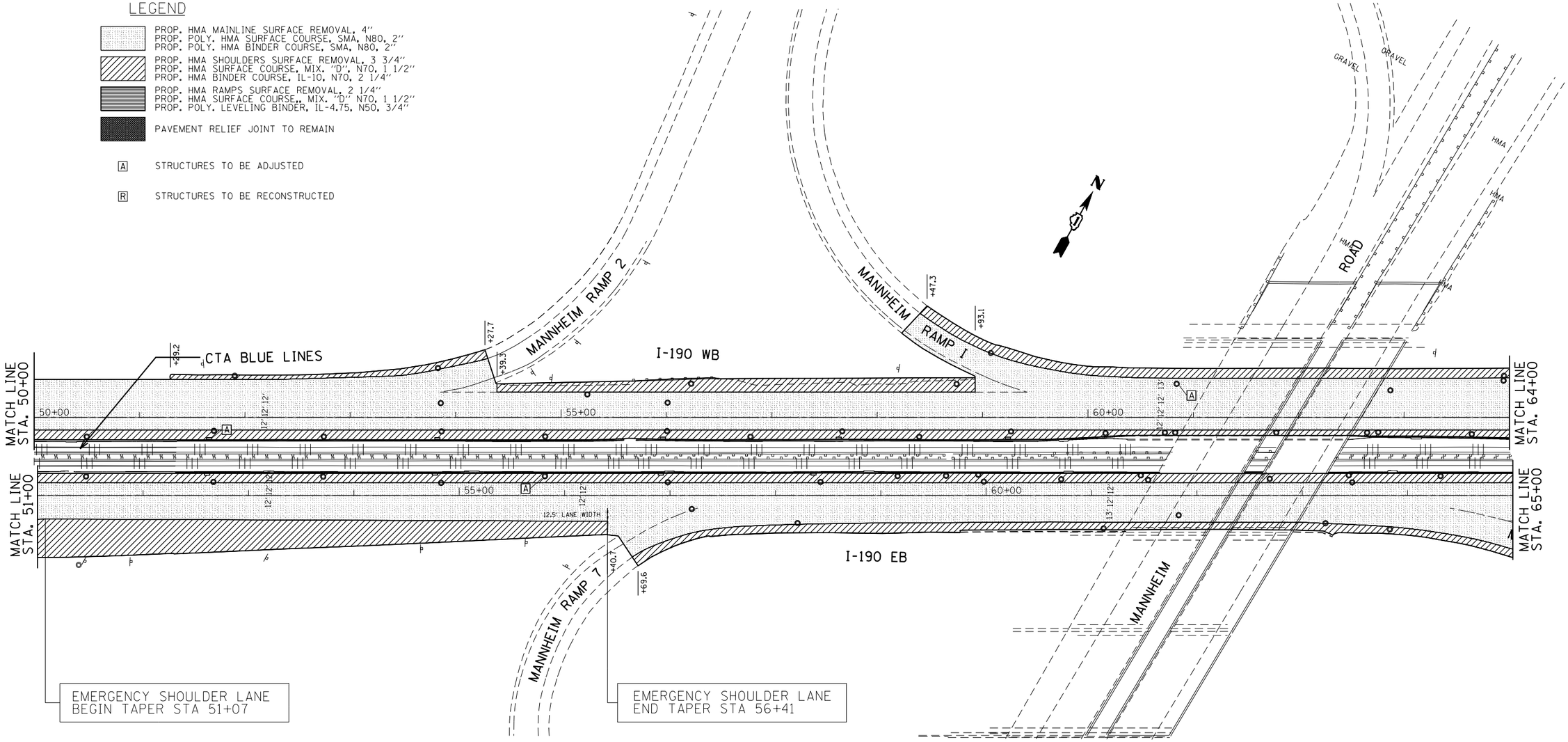
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)
SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	17
		CONTRACT NO. 60T33		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PROP. HMA MAINLINE SURFACE REMOVAL, 4"
  PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
  PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"
- PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
  PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
  PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"
- PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
  PROP. HMA SURFACE COURSE,, MIX. "D" N70, 1 1/2"
  PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"
- PAVEMENT RELIEF JOINT TO REMAIN
- [A] STRUCTURES TO BE ADJUSTED
- [R] STRUCTURES TO BE RECONSTRUCTED



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	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

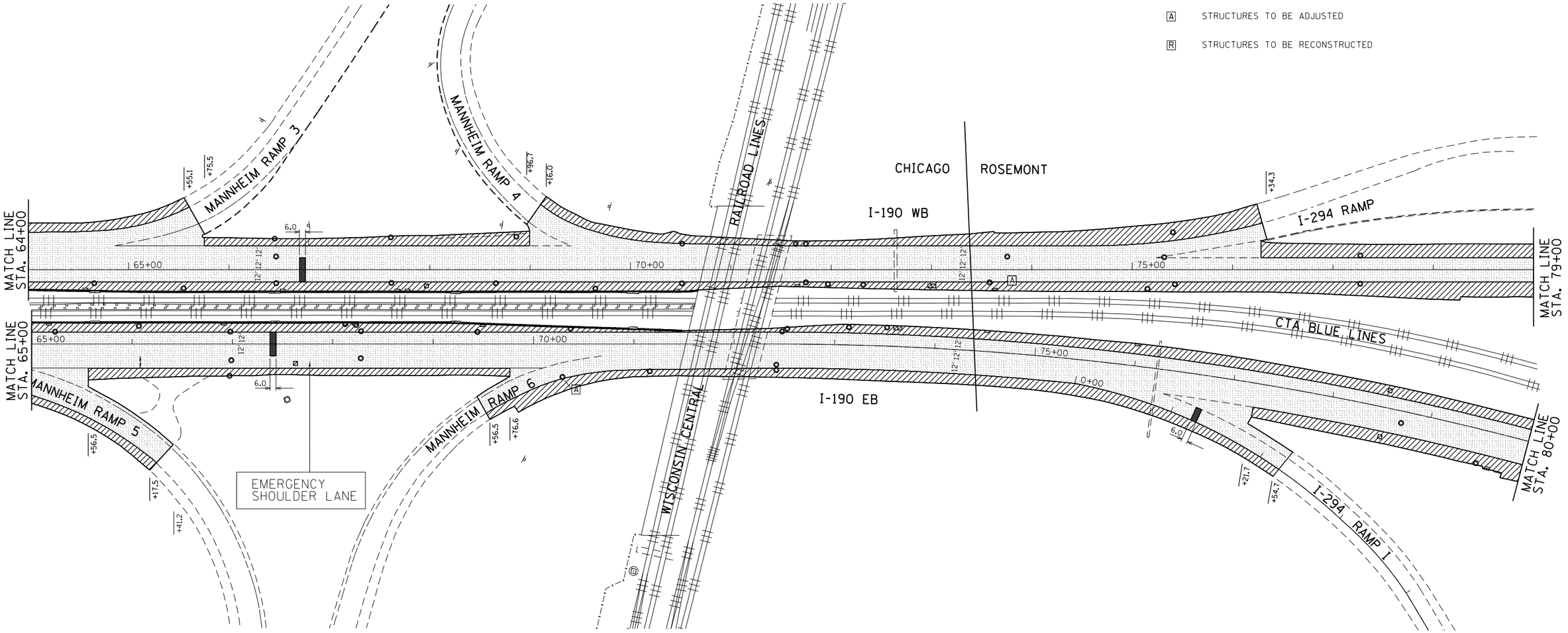
ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	18
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

LEGEND

- PROP. HMA MAINLINE SURFACE REMOVAL, 4"
  PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
  PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"
- PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
  PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
  PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"
- PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
  PROP. HMA SURFACE COURSE,, MIX. "D" N70, 1 1/2"
  PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"
- PAVEMENT RELIEF JOINT TO REMAIN
- [A] STRUCTURES TO BE ADJUSTED
- [R] STRUCTURES TO BE RECONSTRUCTED



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

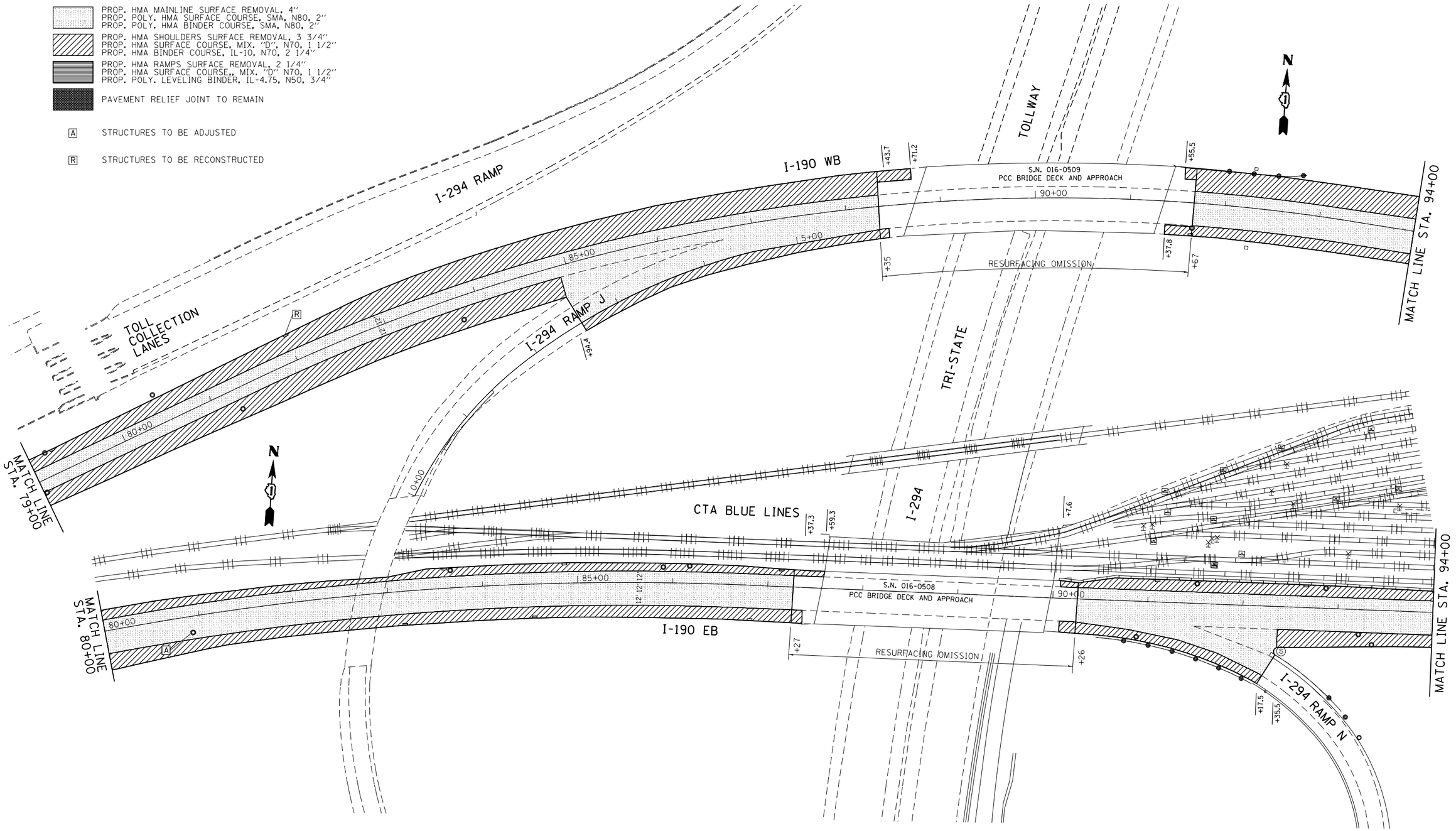
ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	19
		CONTRACT NO. 60T33		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PROP. HMA MAINLINE SURFACE REMOVAL, 4"
  PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
  PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"
- PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
  PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
  PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"
- PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
  PROP. HMA SURFACE COURSE,, MIX. "D" N70, 1 1/2"
  PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"
- PAVEMENT RELIEF JOINT TO REMAIN
- [A] STRUCTURES TO BE ADJUSTED
- [R] STRUCTURES TO BE RECONSTRUCTED



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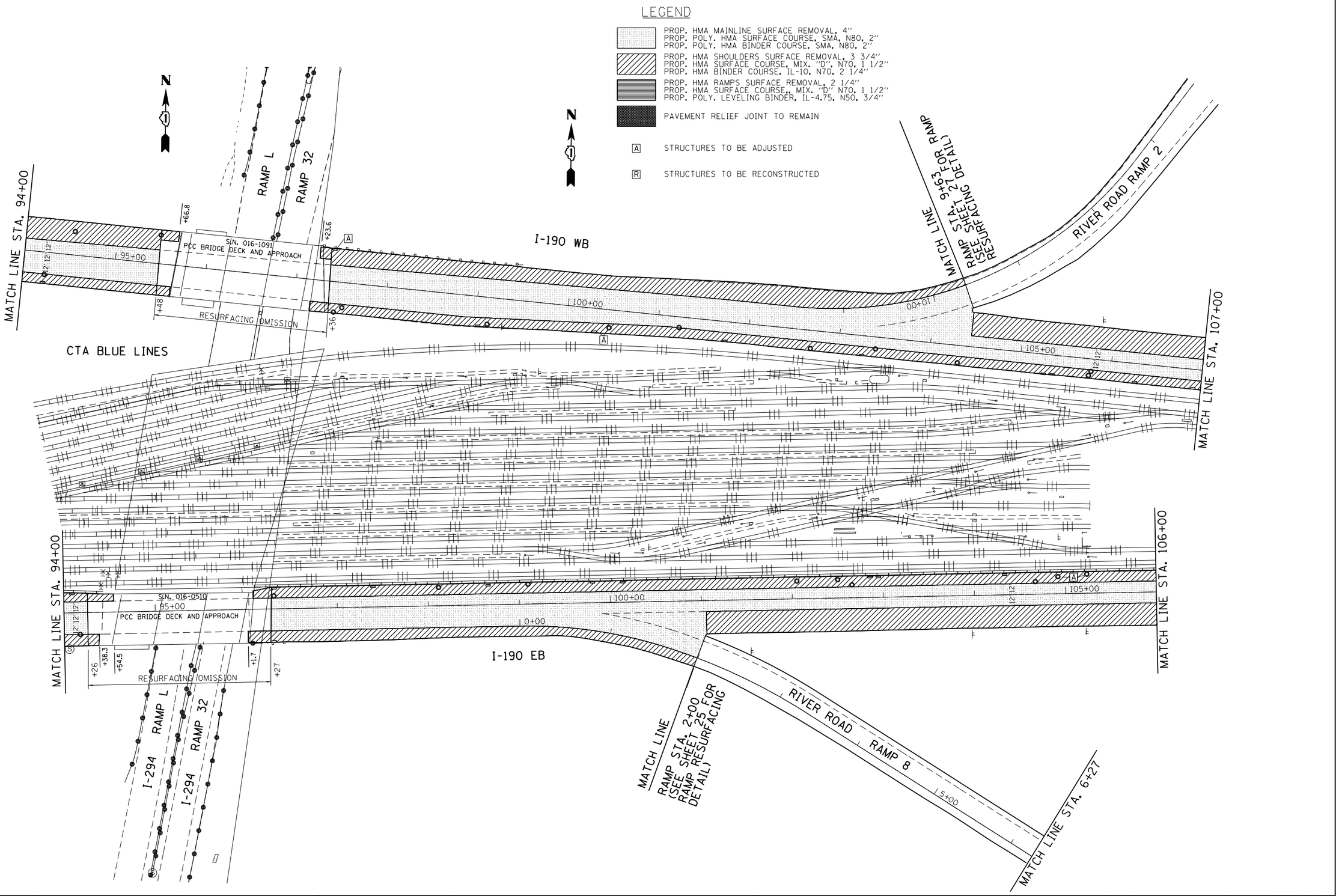
		DRAWN -	REVISED -			190	(0101.6 & 0102.5)RS-2	COOK	85	20
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 60T33		
	PLOT DATE = 10/18/2012	DATE -	REVISED -		SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



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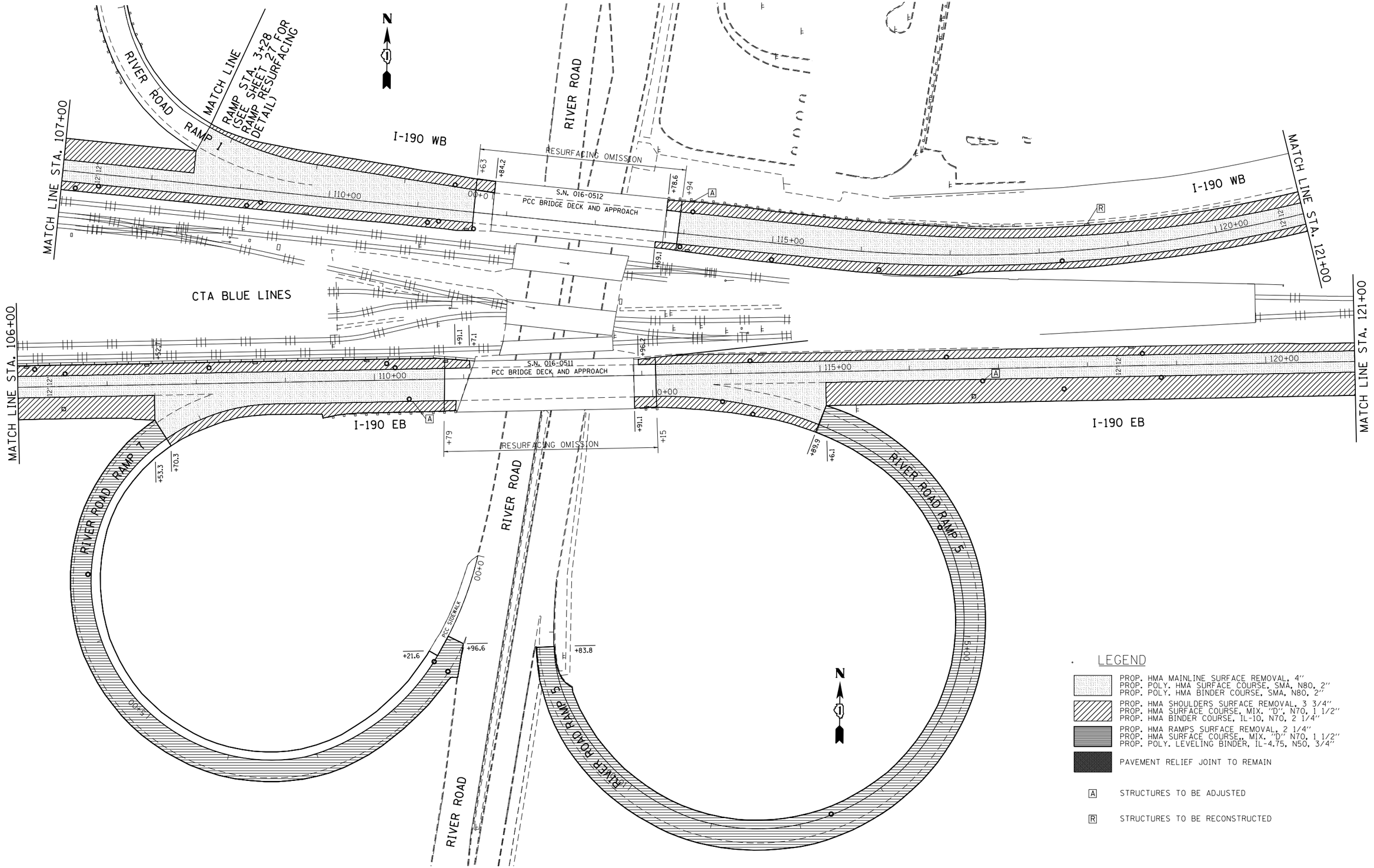
	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	21
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



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	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	22
		CONTRACT NO. 60T33		
		ILLINOIS	FED. AID PROJECT	

LEGEND

PROP. HMA MAINLINE SURFACE REMOVAL, 4"
PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"

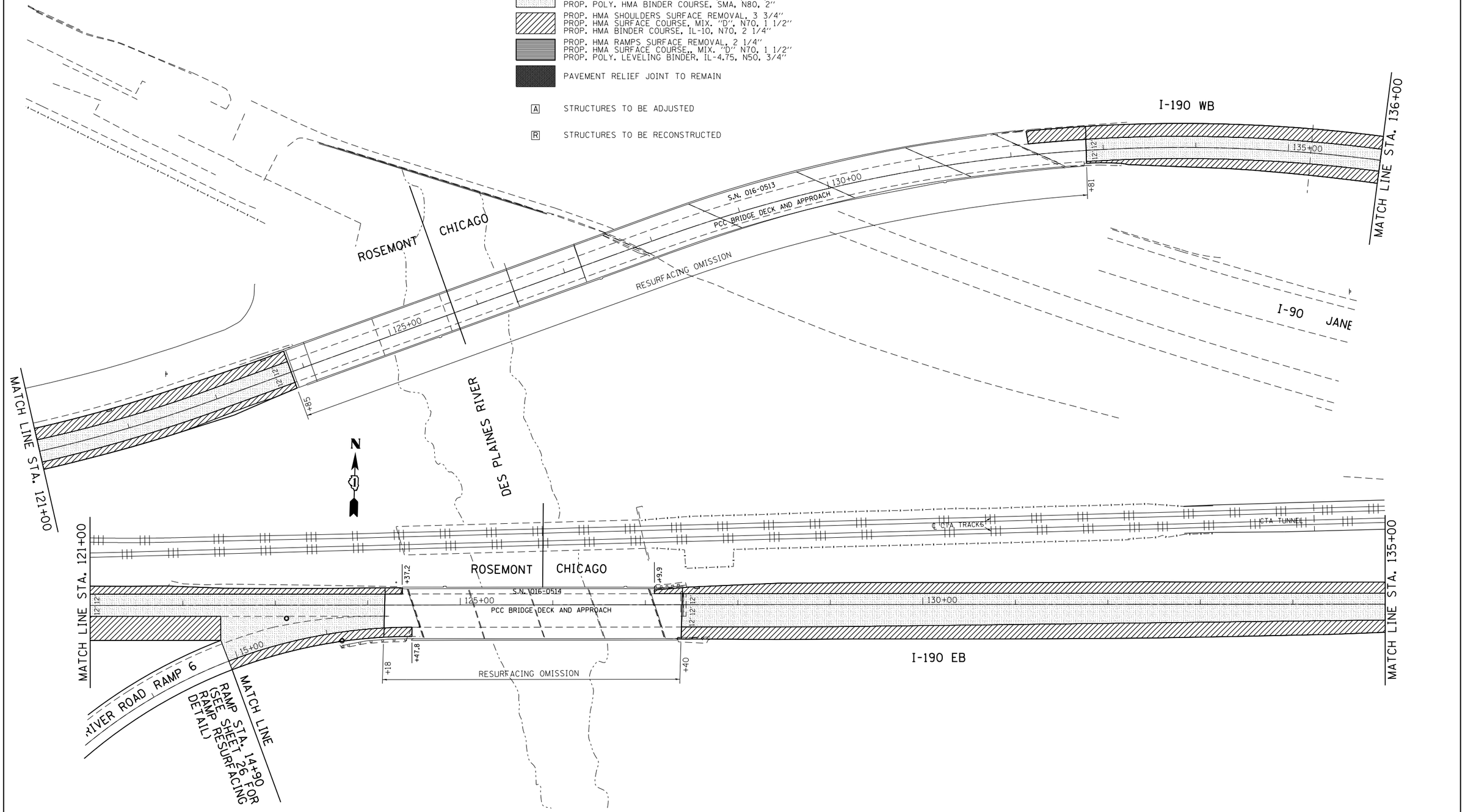
PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"

PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE,, MIX. "D" N70, 1 1/2"
PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"

PAVEMENT RELIEF JOINT TO REMAIN

[A] STRUCTURES TO BE ADJUSTED

[R] STRUCTURES TO BE RECONSTRUCTED



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	23
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

LEGEND

PROP. HMA MAINLINE SURFACE REMOVAL, 4"
PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"

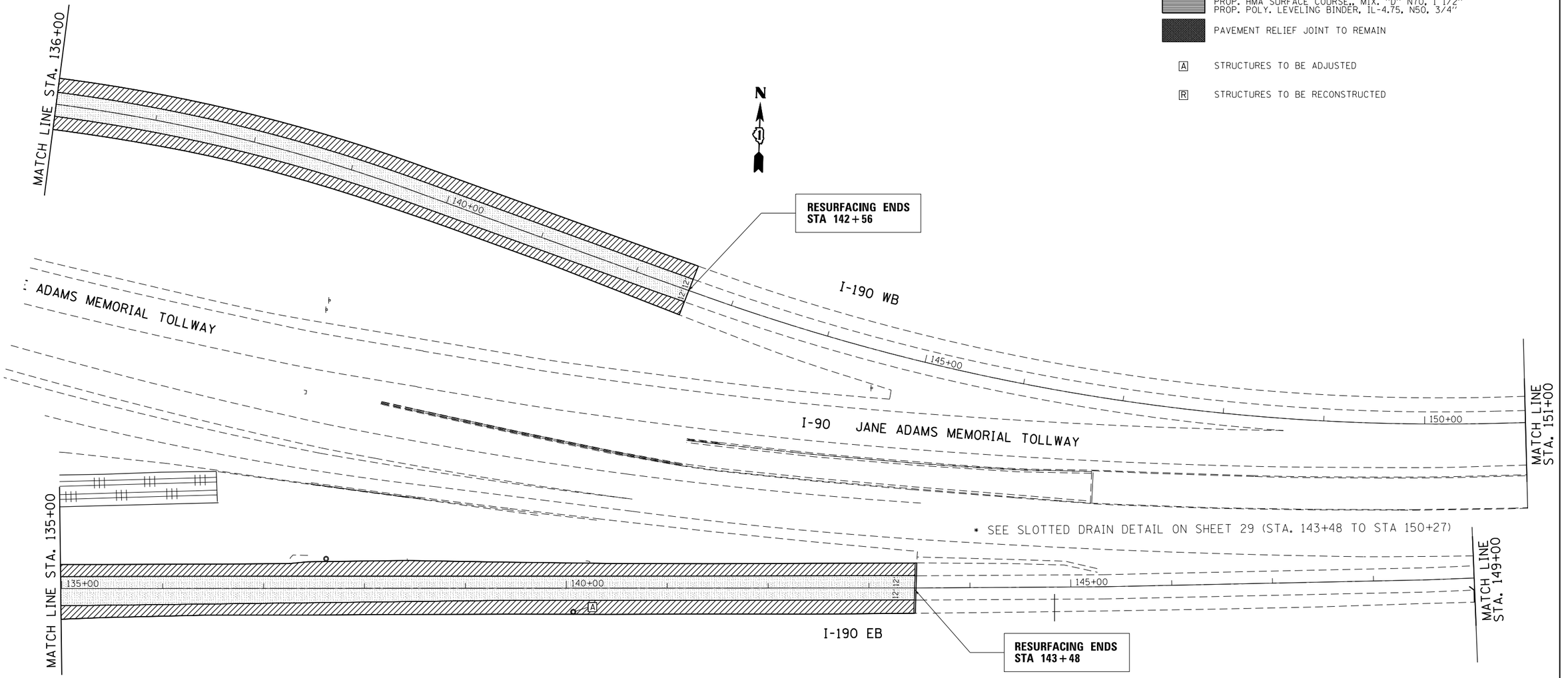
PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"

PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE, MIX. "D" N70, 1 1/2"
PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"

PAVEMENT RELIEF JOINT TO REMAIN

[A] STRUCTURES TO BE ADJUSTED

[R] STRUCTURES TO BE RECONSTRUCTED



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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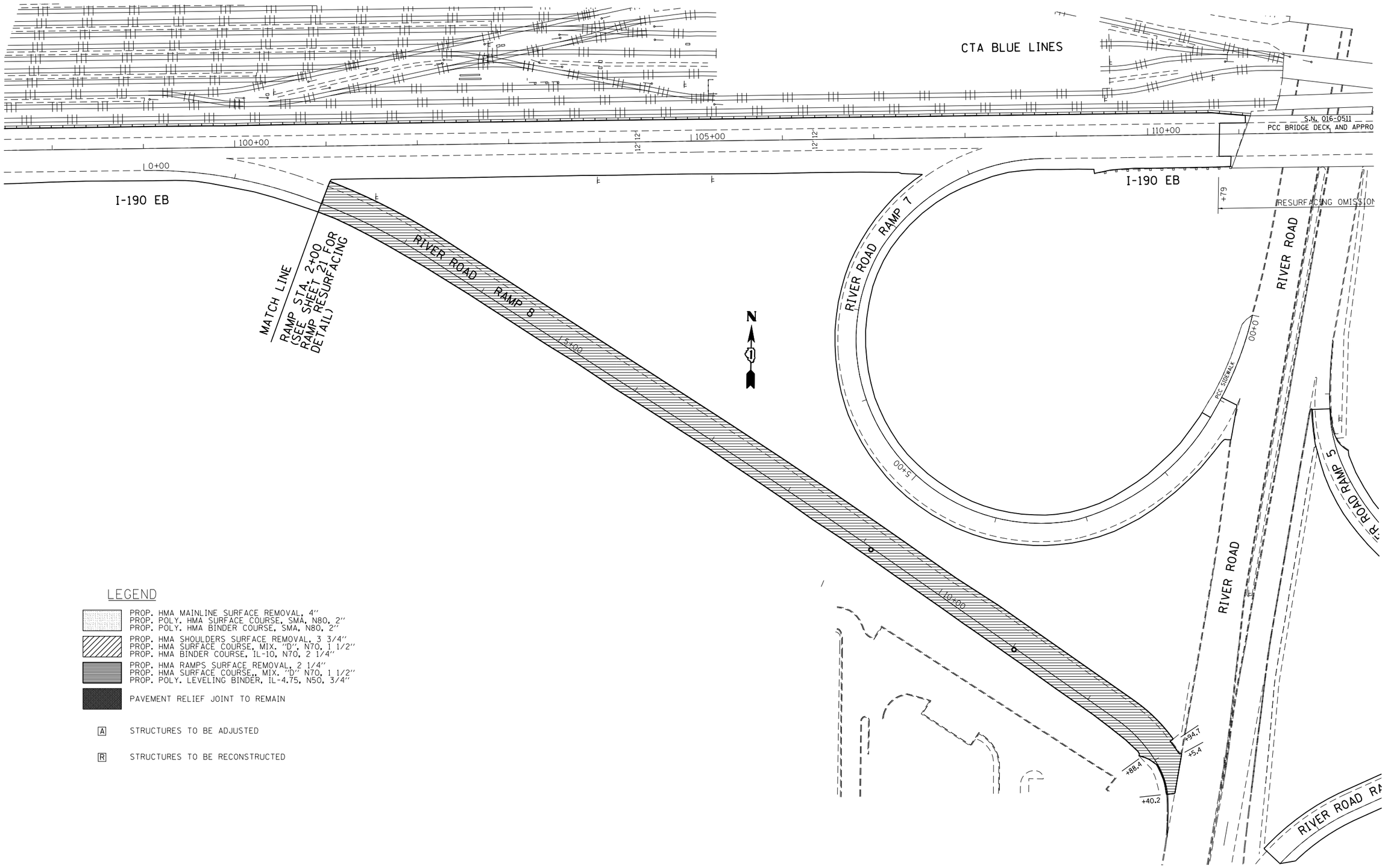
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



LEGEND

- PROP. HMA MAINLINE SURFACE REMOVAL, 4"
  PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
  PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"
- PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
  PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
  PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"
- PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
  PROP. HMA SURFACE COURSE,, MIX. "D" N70, 1 1/2"
  PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"
- PAVEMENT RELIEF JOINT TO REMAIN

[A] STRUCTURES TO BE ADJUSTED

[R] STRUCTURES TO BE RECONSTRUCTED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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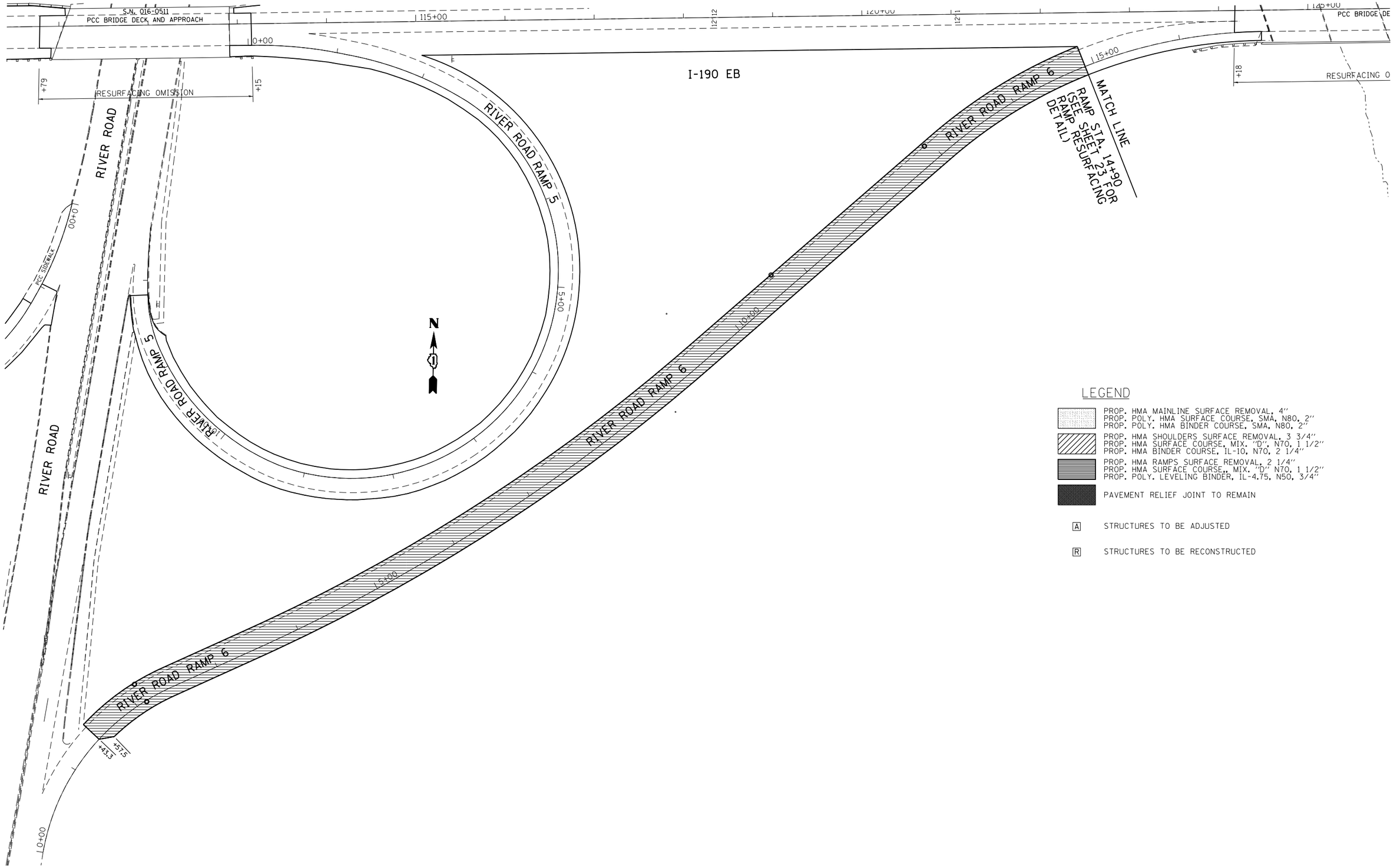
	ILLINOIS FED. AID PROJECT			



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	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

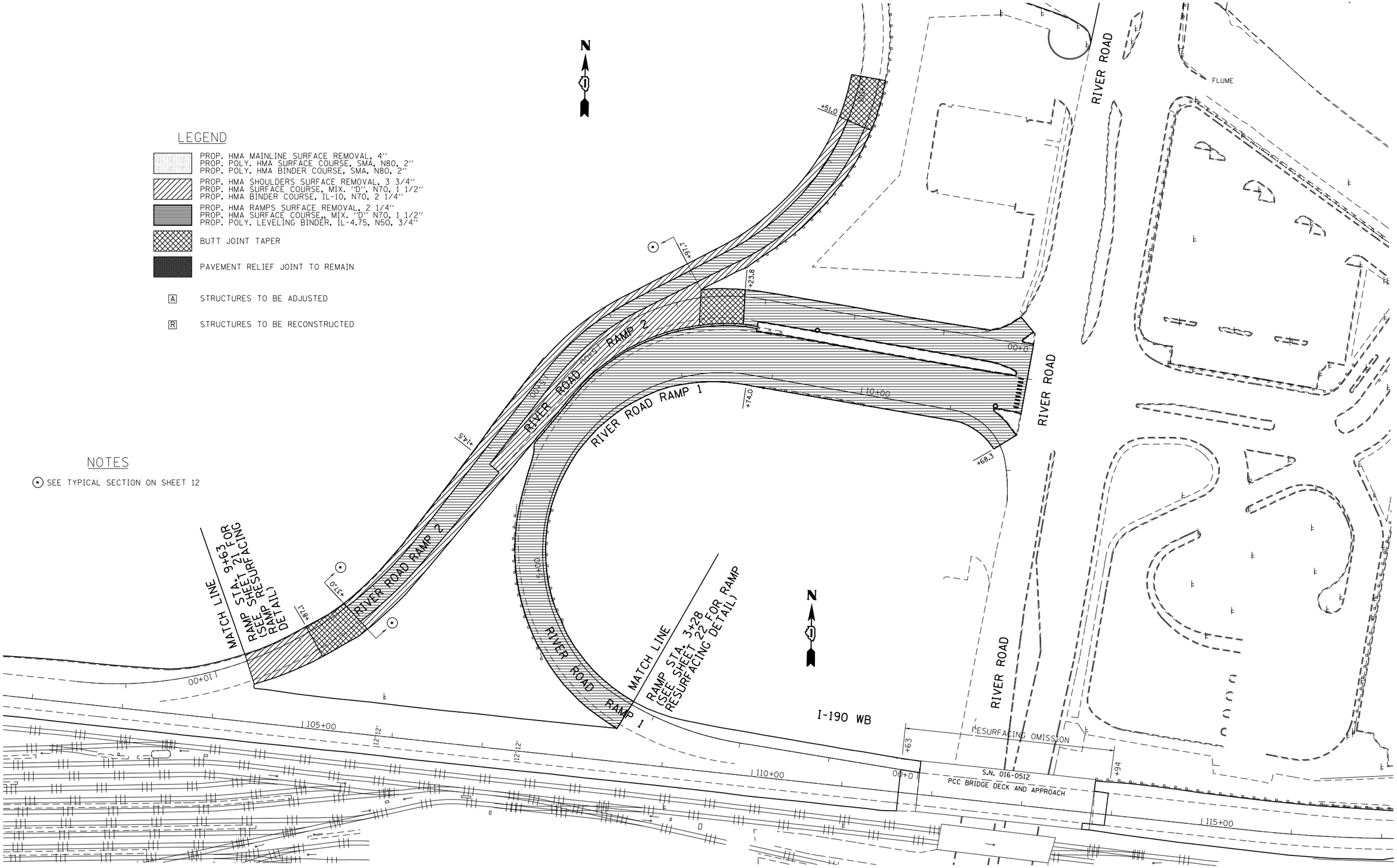
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	26
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

LEGEND

- PROP. HMA MAINLINE SURFACE REMOVAL, 4"
  PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
  PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"
- PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
  PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
  PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"
- PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
  PROP. HMA SURFACE COURSE,, MIX. "D" N70, 1 1/2"
  PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"
- BUTT JOINT TAPER
- PAVEMENT RELIEF JOINT TO REMAIN
- [A] STRUCTURES TO BE ADJUSTED
- [R] STRUCTURES TO BE RECONSTRUCTED

NOTES

⊙ SEE TYPICAL SECTION ON SHEET 12



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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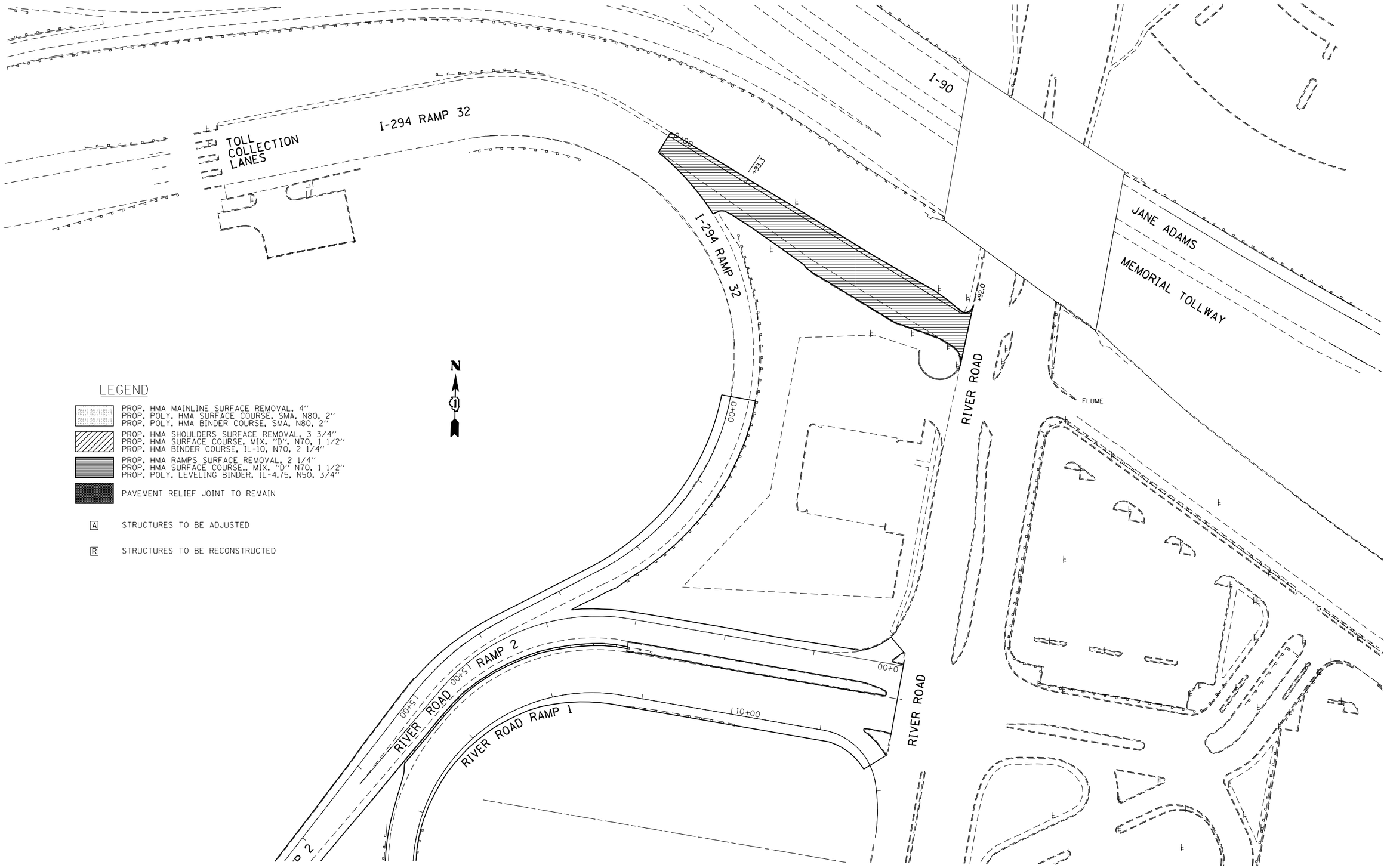
		CONTRACT NO. 60T33		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- PROP. HMA MAINLINE SURFACE REMOVAL, 4"
  PROP. POLY. HMA SURFACE COURSE, SMA, N80, 2"
  PROP. POLY. HMA BINDER COURSE, SMA, N80, 2"
- PROP. HMA SHOULDERS SURFACE REMOVAL, 3 3/4"
  PROP. HMA SURFACE COURSE, MIX. "D", N70, 1 1/2"
  PROP. HMA BINDER COURSE, IL-10, N70, 2 1/4"
- PROP. HMA RAMPS SURFACE REMOVAL, 2 1/4"
  PROP. HMA SURFACE COURSE,, MIX. "D" N70, 1 1/2"
  PROP. POLY. LEVELING BINDER, IL-4.75, N50, 3/4"
- PAVEMENT RELIEF JOINT TO REMAIN
- [A] STRUCTURES TO BE ADJUSTED
- [R] STRUCTURES TO BE RECONSTRUCTED

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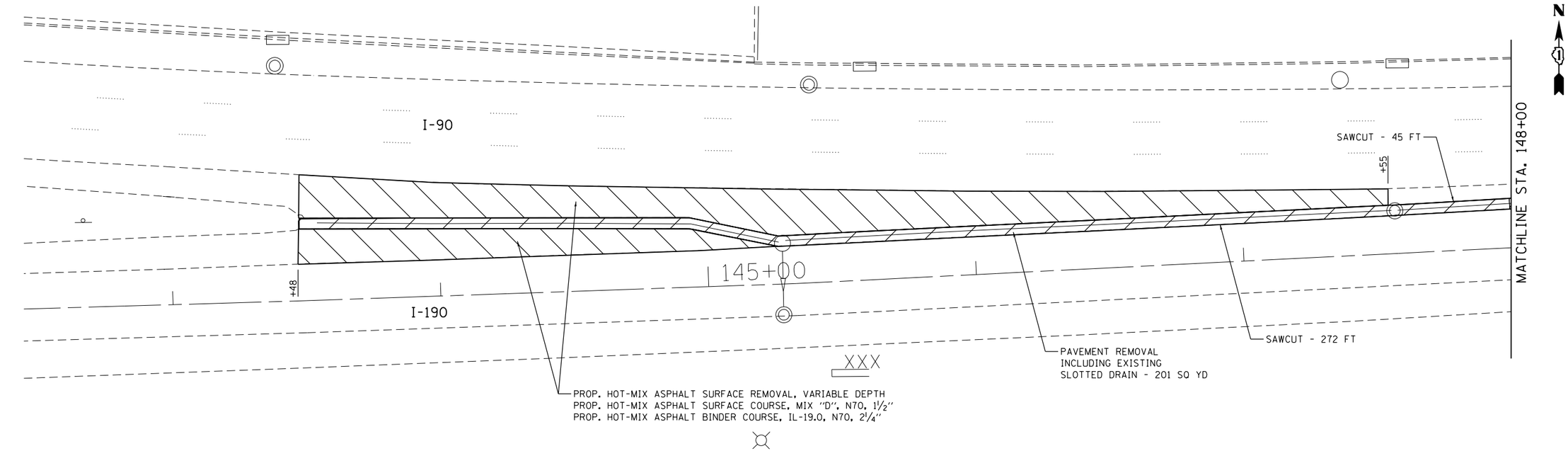
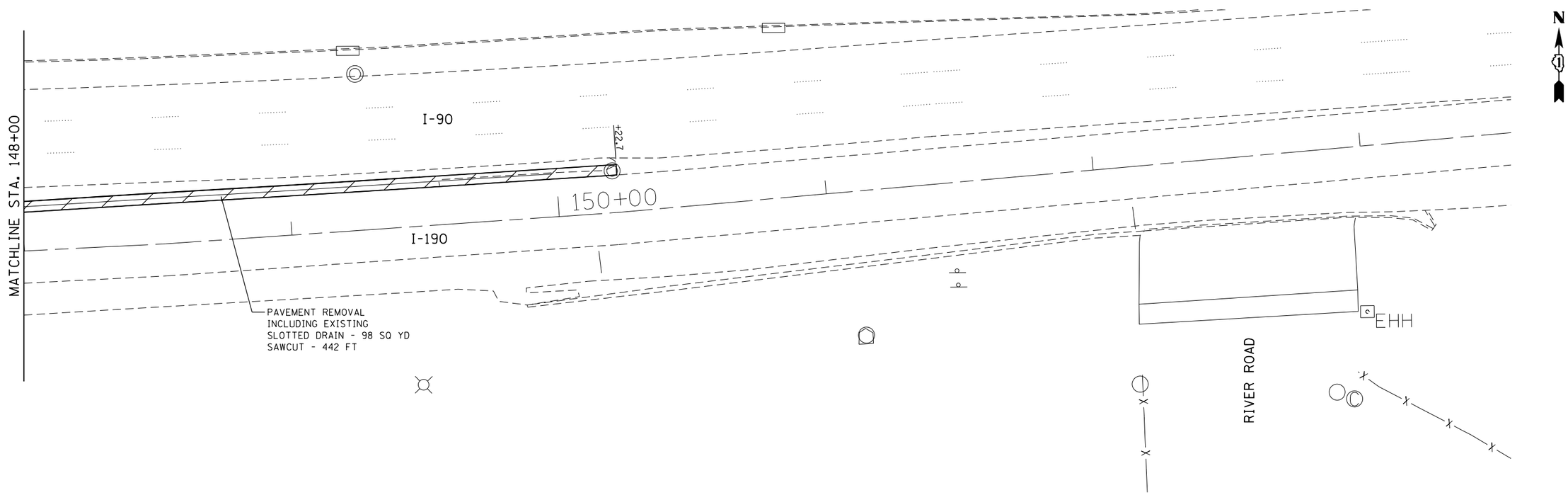
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	28
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			





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GRAEF 8501 W. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112

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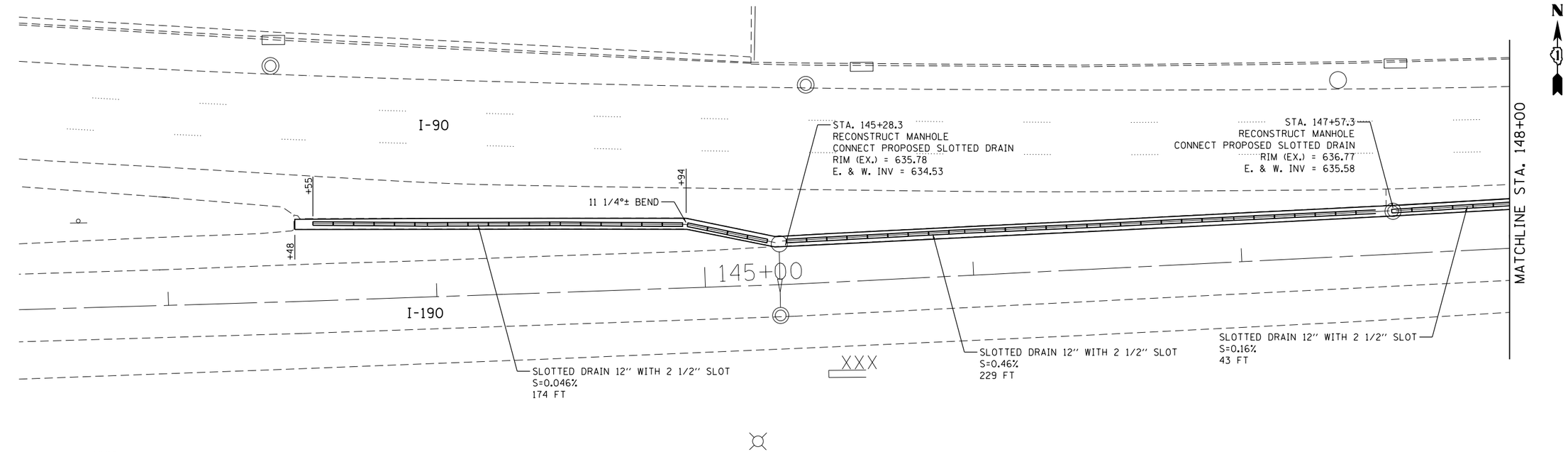
PLOT DATE = 10/15/2012	DATE - 09/21/2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

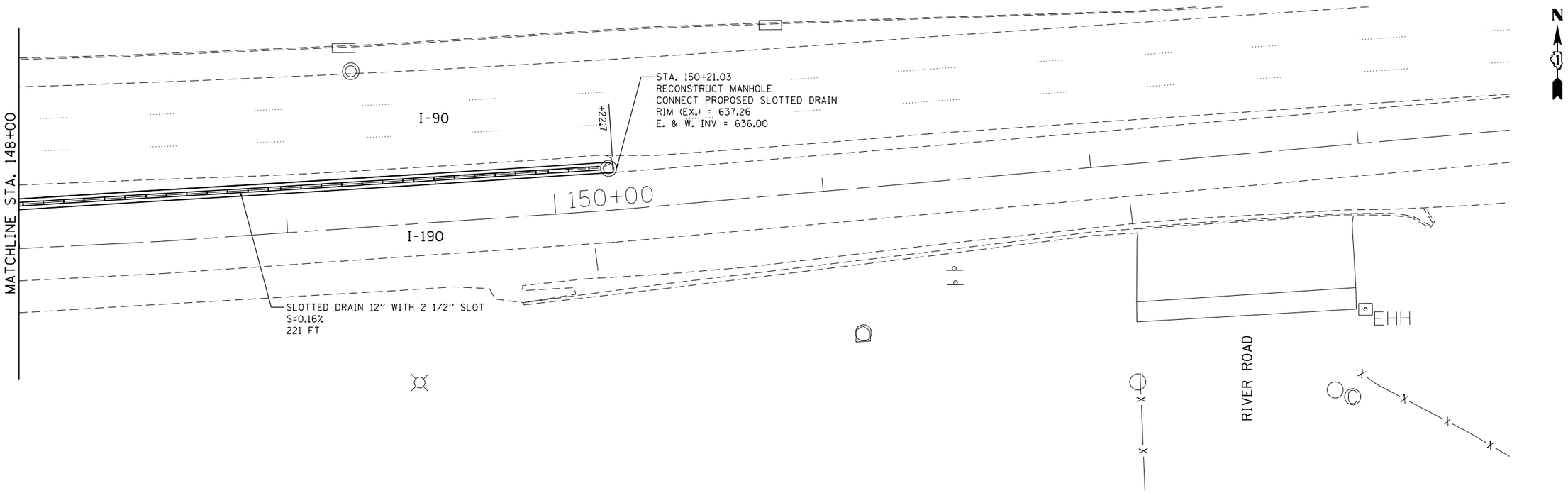
I-190 (O'HARE AIRPORT TO I-90)
ROADWAY PLANS

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	29
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



NOTE:
SEE SLOTTED DRAIN DETAILS
FOR PAVEMENT DETAILS



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GRAEF 8501 W. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112

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PLOT DATE = 9/21/2012	DATE - 09/21/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-190 (O'HARE AIRPORT TO I-90)
PROPOSED SLOTTED DRAIN PLAN

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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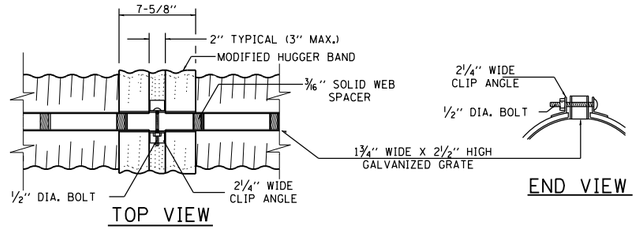
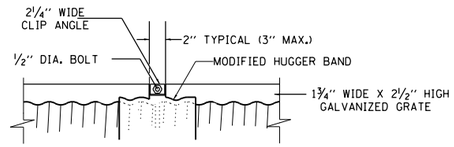
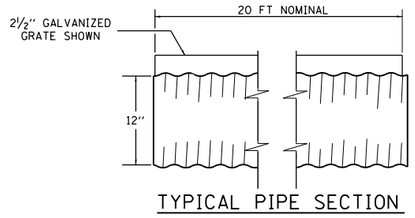
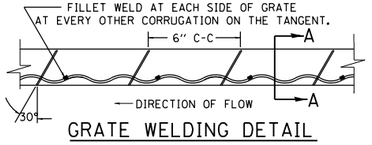
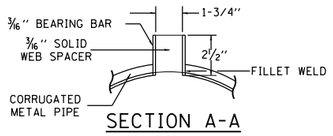
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

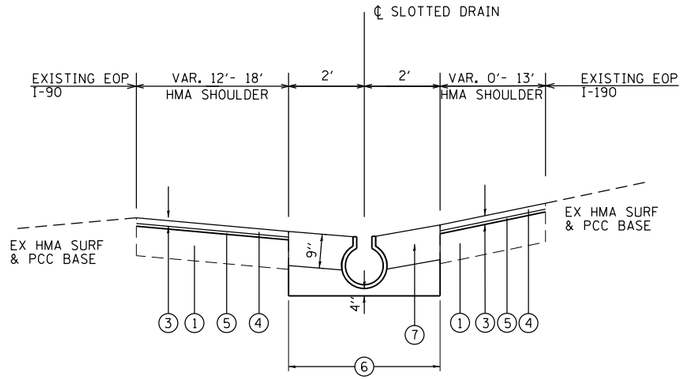




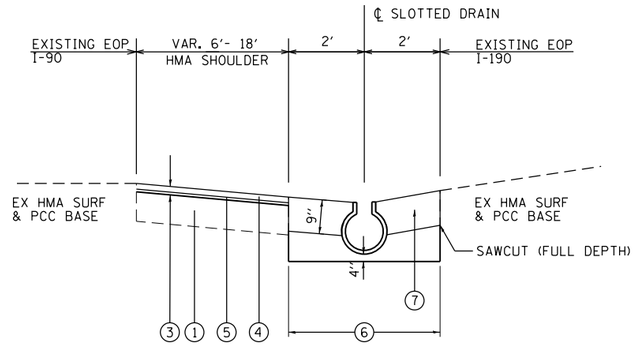




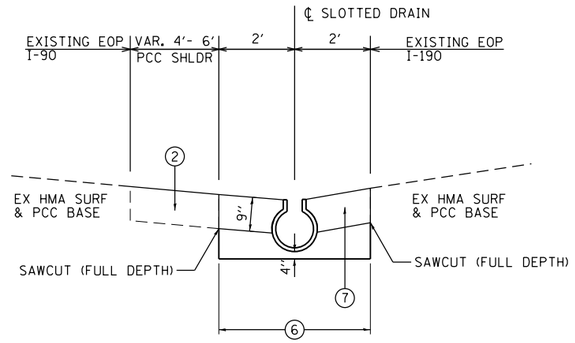




STA. 143+55 TO 145+28.3



STA. 145+28.3 TO 147+57.3



STA. 147+57.3 TO 150+21.0

LEGEND

1. EXISTING HMA SHOULDER
2. EXISTING PCC SHOULDER
3. PROP. HOT-MIX ASHAPLT SURFACE REMOVAL, VARIABLE DEPTH
4. PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
5. PROP. HMA BINDER COURSE, IL 19.0, N70, 2 1/4"
6. 12" SLOTTED DRAIN INCLUDING A 4" AGGREGATE BASE COURSE MATERIAL TYPE B
7. 9" PCC GUTTER

NOTES

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THE SLOTTED DRAIN SHALL BE CORRUGATED PIPE CULVERT WITH INTEGRAL SLOTTED DRAINS. BEFORE PLACING THE CONCRETE ADJACENT TO THE PIPE, THE SLOT SHALL BE COVERED BY EITHER THIN, FLAT METAL SHEETING OR BY A BOARD NOTCHED TO FIT OVER THE GRATE BARS. THIS COVERING MUST FIT CLOSELY IN THE SLOT TO PREVENT ENTRY OF CONCRETE INTO THE PIPE.

PAVING OVER THE SLOTTED DRAIN WILL THEN BE ONE CONTINUOUS OPERATION OVER THE PROTECTED DRAIN. THE PROTECTION FOR THE DRAIN SLOT SHALL THEN BE REMOVED. THE PIPE SHALL DRAIN INTO THE SIDE OF THE INLET.

THE OPENING WHERE THE SLOT IS REMOVED SHALL BE COVERED TO PREVENT CONCRETE FROM ENTERING THE PIPE.

THE CORRUGATED STEEL PIPE USED IN THE SLOTTED DRAIN SHALL MEET THE REQUIREMENTS OF AASHTO M-36/ASTM A 760. THE CMP SHALL BE GALVANIZED OR ALUMINIZED STEEL TYPE 2. STEEL GRATING SHALL MEET THE GALVANIZING REQUIREMENTS OF AASHTO M-111. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN PIPE, AND SHALL INCLUDE ELBOWS.

USE APPROVED END CAP TO PREVENT CONCRETE ENTRY INTO THE PIPE DURING GUTTER CONSTRUCTION ON THE UPSTREAM END OF PIPE.

DIMENSIONS ARE SUBJECT TO THE FOLLOWING MANUFACTURING TOLERANCES:

1. VERTICAL BOW ±3/8"
2. HORIZONTAL BOW ±5/8"
3. TWIST ± 1/2"

THE REMOVAL OF THE EXISTING SLOTTED DRAIN SHALL BE INCLUDED IN THE COST OF THE PAVEMENT REMOVAL

THE 4" AGGREGATE BASE COURSE MATERIAL TYPE B AND 9" PCC GUTTER ARE INCLUDED IN THE COST OF THE SLOTTED DRAIN.

ALL TRAFFIC CONTROL DEVICES AND ADVANCED SIGNING FOR THE PROPOSED SLOTTED DRAIN WORK SHALL BE PLACED ACCORDING TO STATE HIGHWAY STANDARDS 701400 AND 701401.

ALL SLOTTED DRAIN WORK SHALL BE PERFORMED DURING NIGHTTIME HOURS AS OUTLINED IN THE SPECIAL PROVISIONS. DURING DAYTIME HOURS, ALL OPEN HOLES SHALL BE COVERED WITH A STEEL PLATE AND THE GORE AREA SHALL BE BARRICADED. BOTH STEEL PLATES AND BARRICADES SHALL BE INSTALLED PER THE SATISFACTION OF THE ENGINEER. THE COST OF THE STEEL PLATE AND ALL TRAFFIC CONTROL DEVICES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY).

PROPOSED SLOTTED DRAIN GRADES

STATION	I-190 EOP EXISTING	I-190 EDGE SD		SLOTTED DRAIN		I-90 EDGE SD		I-90 EOP EXISTING	NOTES
		EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED		
143+48.0	636.11	635.96				636.01		636.26	BEGIN CONCRETE
143+55.0	636.08	635.92	635.94	635.86	635.88	635.98	635.99	636.27	BEGIN SLOTTED DRAIN
144+00.0	635.89	635.90	635.86	635.71	635.86	635.79	635.92	636.32	
144+50.0	635.92	635.77	635.85	635.76	635.84	635.88	635.92	636.39	
144+94.0	636.05	635.84	635.87	635.73	635.82	635.93	635.92	636.48	11 1/4 DEGREE BAND
145+00.0	636.06	635.84	635.87	635.74	635.81	635.92	635.90	636.49	
145+28.3	636.11	635.98	635.98	635.76	635.80	635.89	635.87	636.49	RECONSTRUCT MANHOLE
145+50.0		636.15		636.04	635.90	636.09	635.98	636.65	
146+00.0		636.29		636.33	636.12	636.35	636.21	636.76	
146+50.0		636.54		636.55	636.35	636.51	636.42	636.81	
147+00.0		636.66		636.64	636.57	636.69	636.62	636.85	
147+50.0		636.87		636.79	636.80	636.83	636.84	636.98	
147+57.3		636.89		636.81	636.83	636.85		637.00	RECONSTRUCT MANHOLE
148+00.0		637.04		636.89	636.90	636.93		637.04	
148+50.0		637.12		637.07	636.98	637.07		637.06	
149+00.0		637.22		637.22	637.06	637.21		637.20	
149+50.0		637.33		637.32	637.14	637.32		637.31	
150+00.0		637.41		637.24	637.22	637.25		637.27	
150+21.0				637.26					RECONSTRUCT MANHOLE

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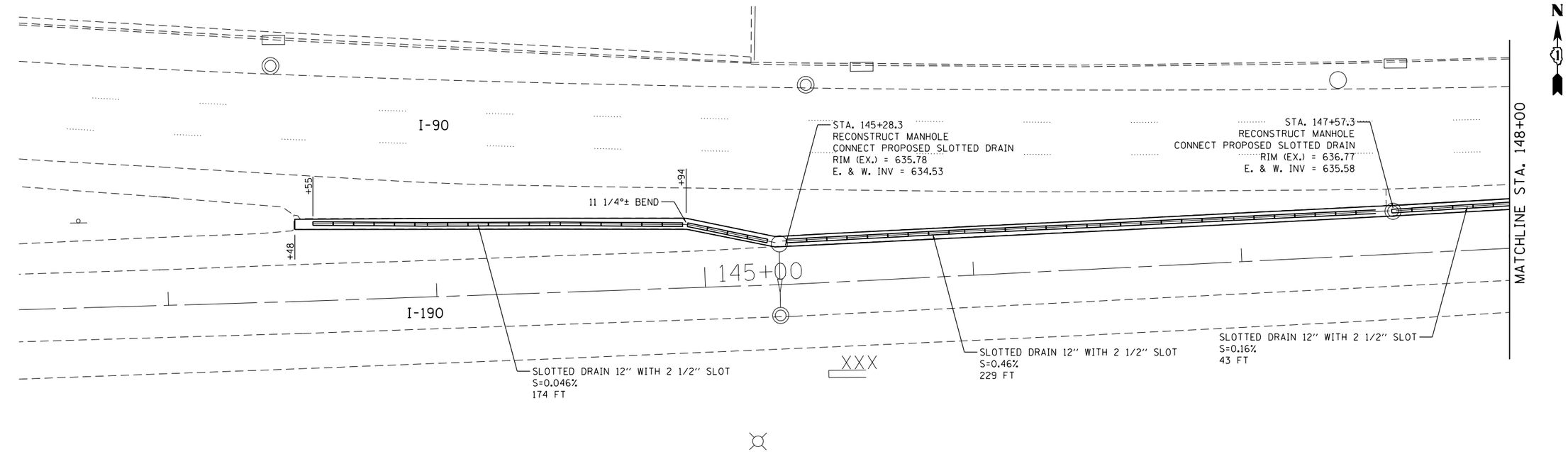
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

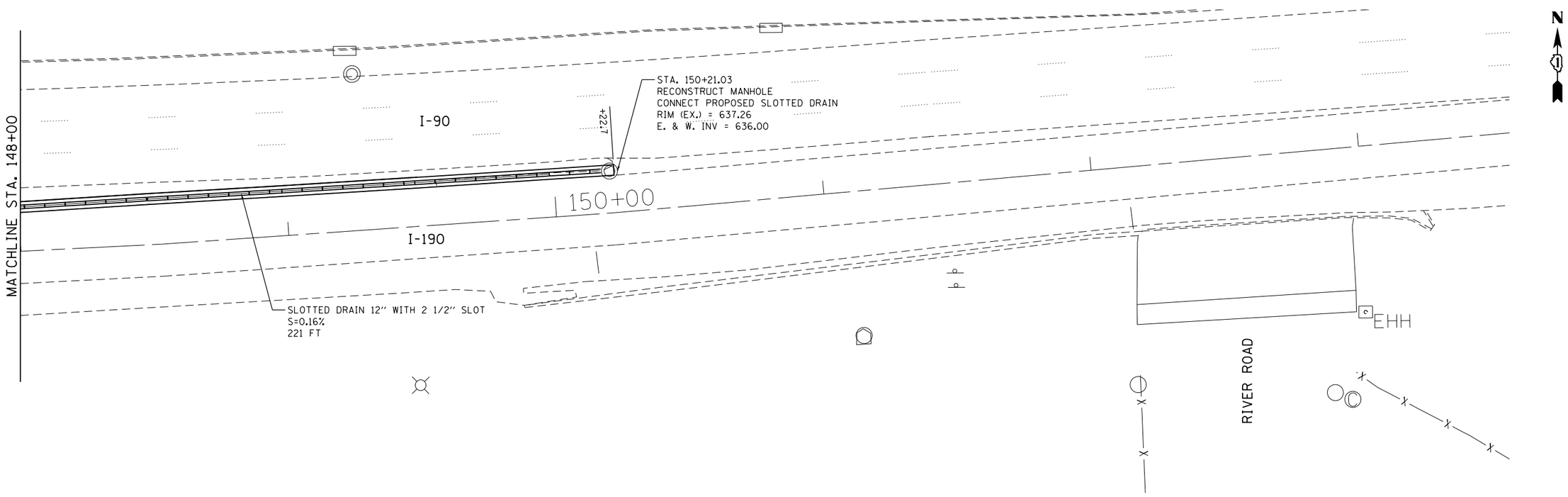
I-190 (O'HARE AIRPORT TO I-90)
SLOTTED DRAIN DETAILS

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	31
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



NOTE:
SEE SLOTTED DRAIN DETAILS
FOR PAVEMENT DETAILS



GRĒEF 8501 W. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112

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PLOT DATE = 9/21/2012	DATE - 09/21/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-190 (O'HARE AIRPORT TO I-90)
PROPOSED SLOTTED DRAIN PLAN

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	86	30
		CONTRACT NO. 60T33		
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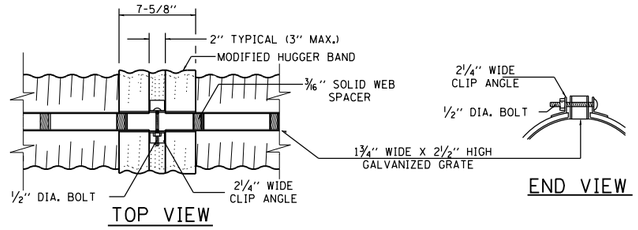
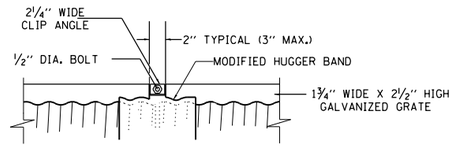
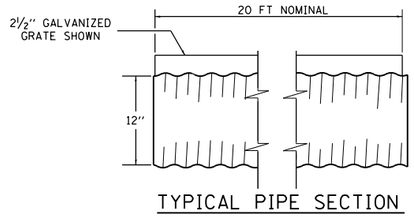
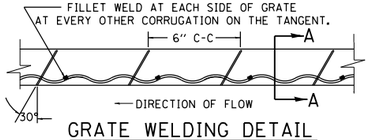
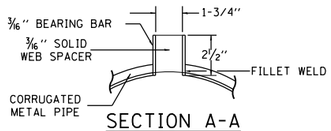
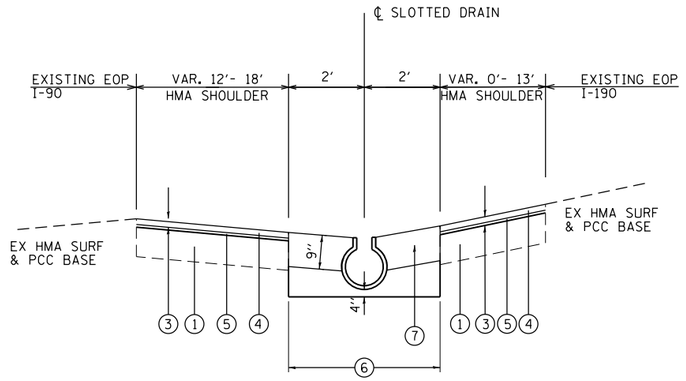




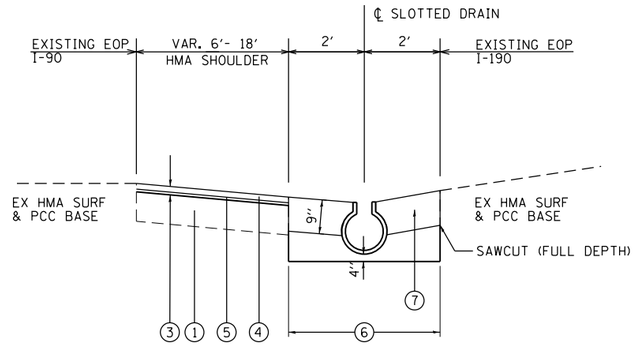




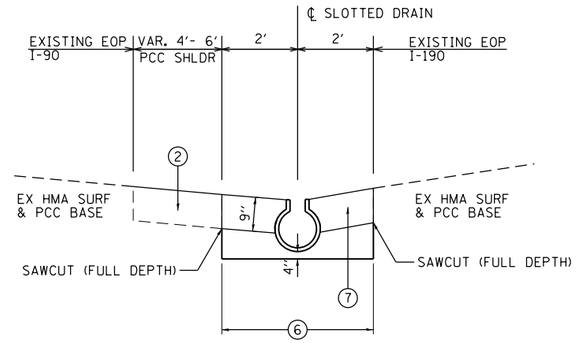




STA. 143+55 TO 145+28.3



STA. 145+28.3 TO 147+57.3



STA. 147+57.3 TO 150+21.0

LEGEND

1. EXISTING HMA SHOULDER
2. EXISTING PCC SHOULDER
3. PROP. HOT-MIX ASHAPLT SURFACE REMOVAL, VARIABLE DEPTH
4. PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
5. PROP. HMA BINDER COURSE, IL 19.0, N70, 2 1/4"
6. 12" SLOTTED DRAIN INCLUDING A 4" AGGREGATE BASE COURSE MATERIAL TYPE B
7. 9" PCC GUTTER

NOTES

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THE SLOTTED DRAIN SHALL BE CORRUGATED PIPE CULVERT WITH INTEGRAL SLOTTED DRAINS. BEFORE PLACING THE CONCRETE ADJACENT TO THE PIPE, THE SLOT SHALL BE COVERED BY EITHER THIN, FLAT METAL SHEETING OR BY A BOARD NOTCHED TO FIT OVER THE GRATE BARS. THIS COVERING MUST FIT CLOSELY IN THE SLOT TO PREVENT ENTRY OF CONCRETE INTO THE PIPE.

PAVING OVER THE SLOTTED DRAIN WILL THEN BE ONE CONTINUOUS OPERATION OVER THE PROTECTED DRAIN. THE PROTECTION FOR THE DRAIN SLOT SHALL THEN BE REMOVED. THE PIPE SHALL DRAIN INTO THE SIDE OF THE INLET.

THE OPENING WHERE THE SLOT IS REMOVED SHALL BE COVERED TO PREVENT CONCRETE FROM ENTERING THE PIPE.

THE CORRUGATED STEEL PIPE USED IN THE SLOTTED DRAIN SHALL MEET THE REQUIREMENTS OF AASHTO M-36/ASTM A 760. THE CMP SHALL BE GALVANIZED OR ALUMINIZED STEEL TYPE 2. STEEL GRATING SHALL MEET THE GALVANIZING REQUIREMENTS OF AASHTO M-111. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN PIPE, AND SHALL INCLUDE ELBOWS.

USE APPROVED END CAP TO PREVENT CONCRETE ENTRY INTO THE PIPE DURING GUTTER CONSTRUCTION ON THE UPSTREAM END OF PIPE.

DIMENSIONS ARE SUBJECT TO THE FOLLOWING MANUFACTURING TOLERANCES:

1. VERTICAL BOW ±3/8"
2. HORIZONTAL BOW ±5/8"
3. TWIST ± 1/2"

THE REMOVAL OF THE EXISTING SLOTTED DRAIN SHALL BE INCLUDED IN THE COST OF THE PAVEMENT REMOVAL

THE 4" AGGREGATE BASE COURSE MATERIAL TYPE B AND 9" PCC GUTTER ARE INCLUDED IN THE COST OF THE SLOTTED DRAIN.

ALL TRAFFIC CONTROL DEVICES AND ADVANCED SIGNING FOR THE PROPOSED SLOTTED DRAIN WORK SHALL BE PLACED ACCORDING TO STATE HIGHWAY STANDARDS 701400 AND 701401.

ALL SLOTTED DRAIN WORK SHALL BE PERFORMED DURING NIGHTTIME HOURS AS OUTLINED IN THE SPECIAL PROVISIONS. DURING DAYTIME HOURS, ALL OPEN HOLES SHALL BE COVERED WITH A STEEL PLATE AND THE GORE AREA SHALL BE BARRICADED. BOTH STEEL PLATES AND BARRICADES SHALL BE INSTALLED PER THE SATISFACTION OF THE ENGINEER. THE COST OF THE STEEL PLATE AND ALL TRAFFIC CONTROL DEVICES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY).

PROPOSED SLOTTED DRAIN GRADES

STATION	I-190 EOP EXISTING	I-190 EDGE SD		SLOTTED DRAIN		I-90 EDGE SD		I-90 EOP EXISTING	NOTES
		EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED		
143+48.0	636.11	635.96				636.01		636.26	BEGIN CONCRETE
143+55.0	636.08	635.92	635.94	635.86	635.88	635.98	635.99	636.27	BEGIN SLOTTED DRAIN
144+00.0	635.89	635.90	635.86	635.71	635.86	635.79	635.92	636.32	
144+50.0	635.92	635.77	635.85	635.76	635.84	635.88	635.92	636.39	
144+94.0	636.05	635.84	635.87	635.73	635.82	635.93	635.92	636.48	11 1/4 DEGREE BAND
145+00.0	636.06	635.84	635.87	635.74	635.81	635.92	635.90	636.49	
145+28.3	636.11	635.98	635.98	635.76	635.80	635.89	635.87	636.49	RECONSTRUCT MANHOLE
145+50.0		636.15		636.04	635.90	636.09	635.98	636.65	
146+00.0		636.29		636.33	636.12	636.35	636.21	636.76	
146+50.0		636.54		636.55	636.35	636.51	636.42	636.81	
147+00.0		636.66		636.64	636.57	636.69	636.62	636.85	
147+50.0		636.87		636.79	636.80	636.83	636.84	636.98	
147+57.3		636.89		636.81	636.83	636.85		637.00	RECONSTRUCT MANHOLE
148+00.0		637.04		636.89	636.90	636.93		637.04	
148+50.0		637.12		637.07	636.98	637.07		637.06	
149+00.0		637.22		637.22	637.06	637.21		637.20	
149+50.0		637.33		637.32	637.14	637.32		637.31	
150+00.0		637.41		637.24	637.22	637.25		637.27	
150+21.0				637.26					RECONSTRUCT MANHOLE

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GRAEF 8501 W. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

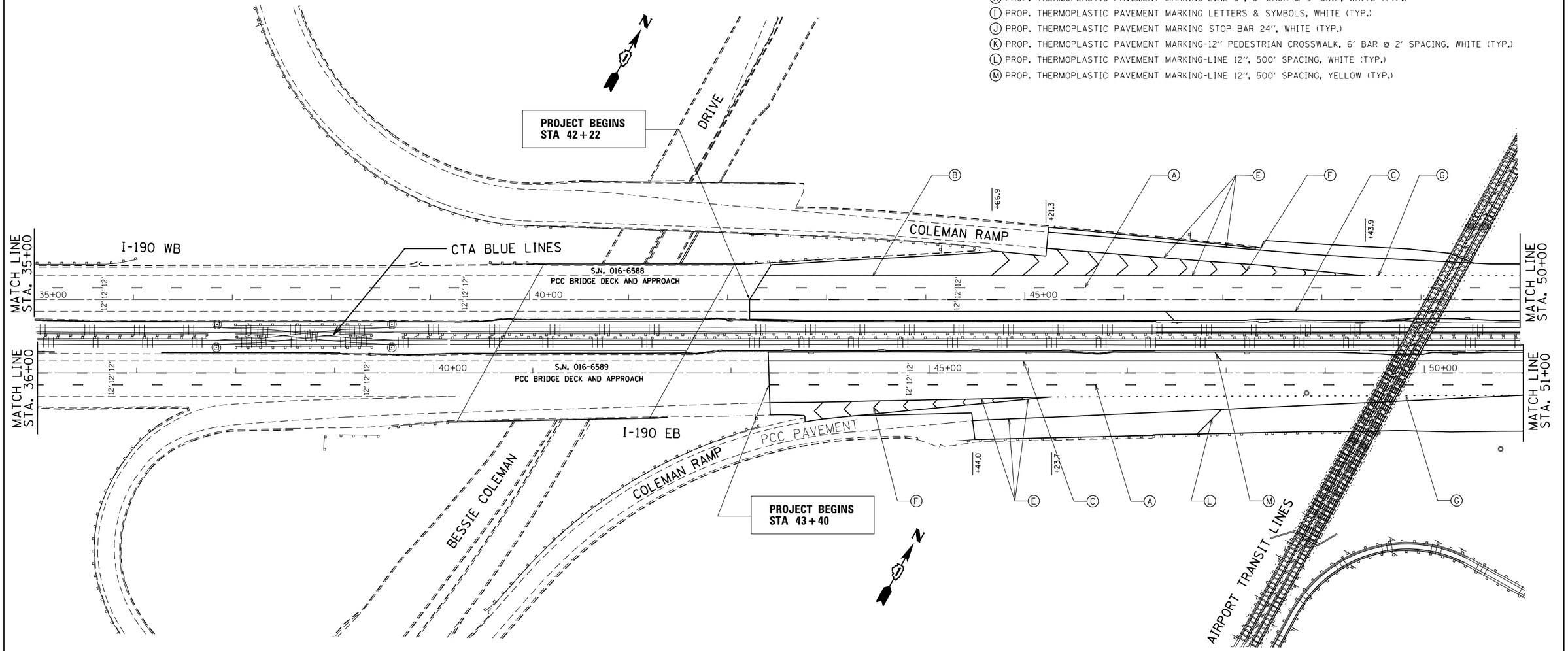
I-190 (O'HARE AIRPORT TO I-90)
SLOTTED DRAIN DETAILS

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	86	31
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)



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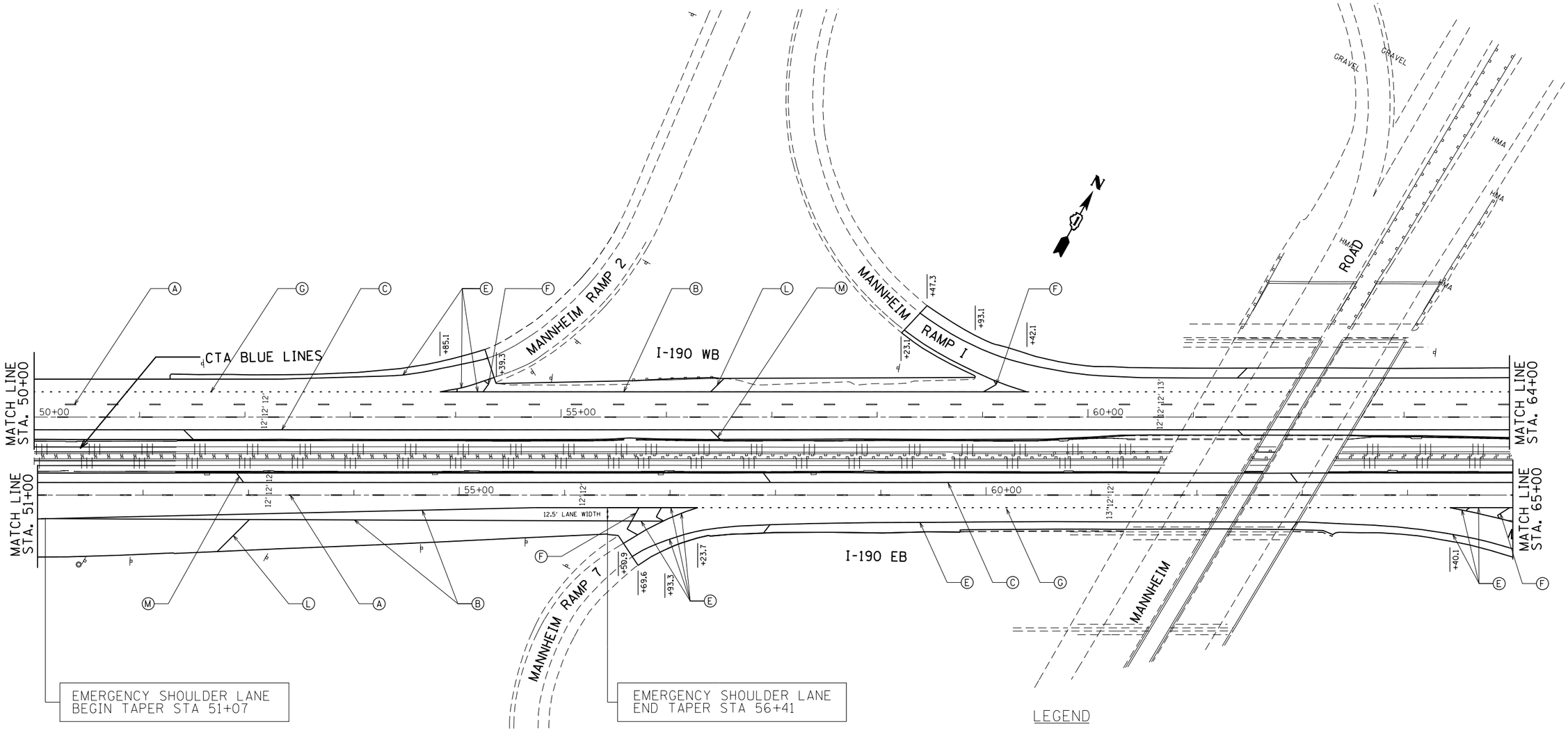
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	32
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)

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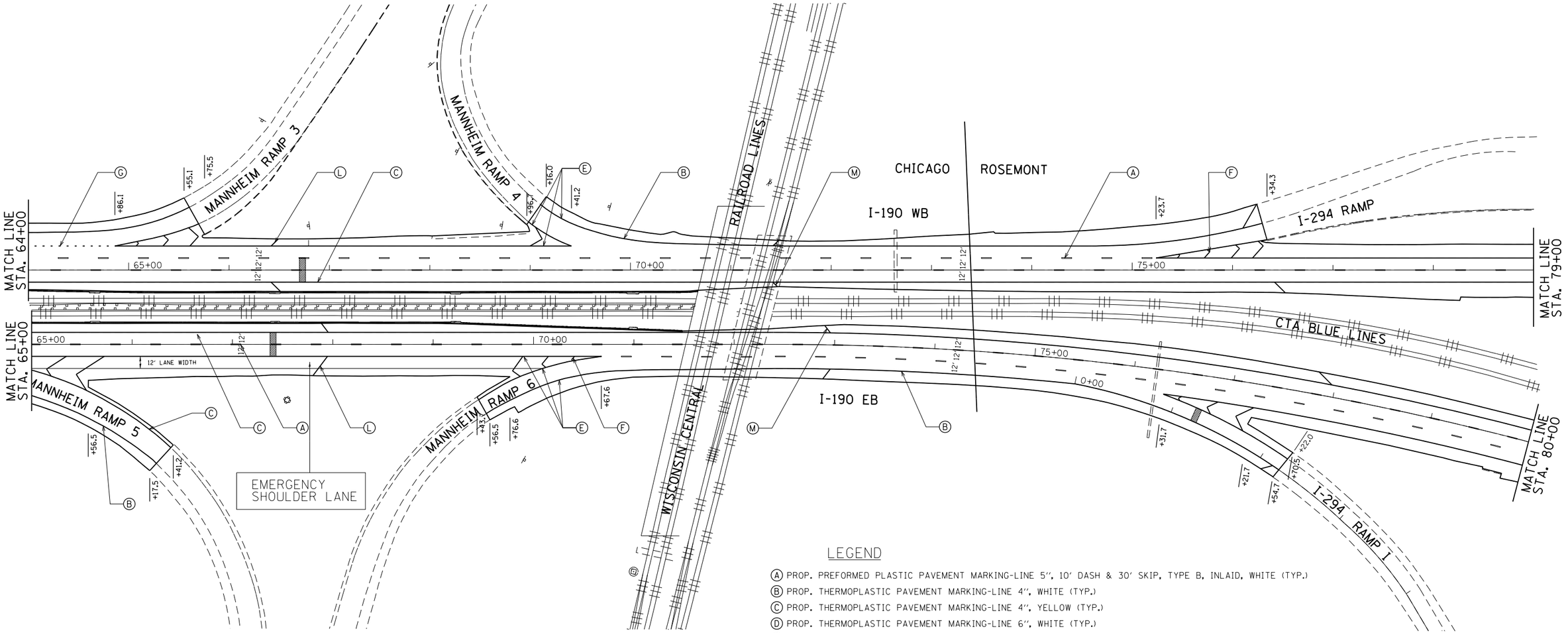
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	33
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



PAVEMENT RELIEF JOINT TO REMAIN

LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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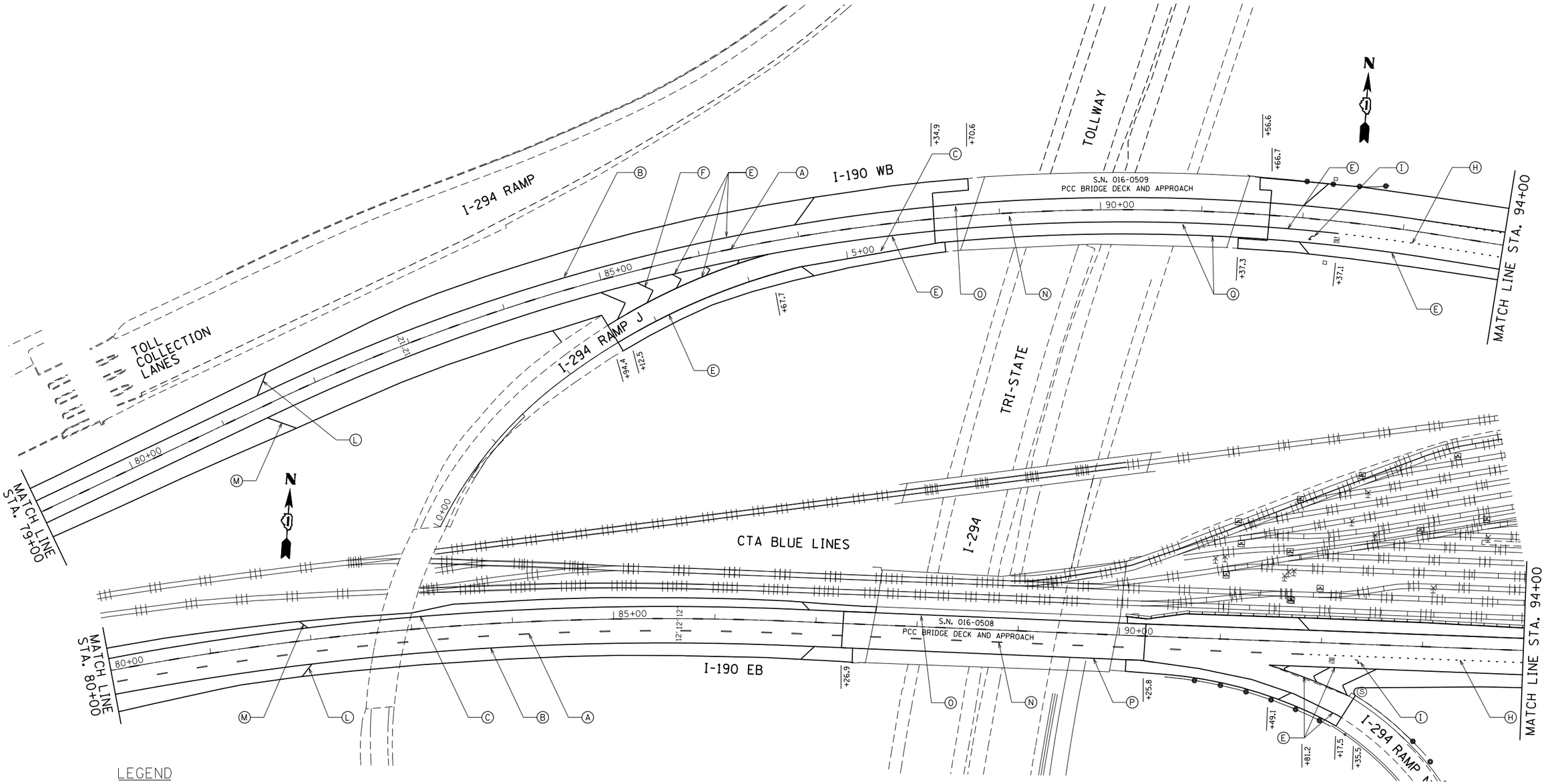
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
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- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)
- (N) PROP. POLYUREA PAVEMENT MARKING-LINE 5", 30' SPACING, WHITE (TYP.)
- (O) PROP. POLYUREA PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (P) PROP. POLYUREA PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (Q) PROP. POLYUREA PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (R) PROP. POLYUREA PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (S) PROP. POLYUREA PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (T) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (U) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	35
		CONTRACT NO. 60T33		
		ILLINOIS FED. AID PROJECT		

LEGEND

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- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
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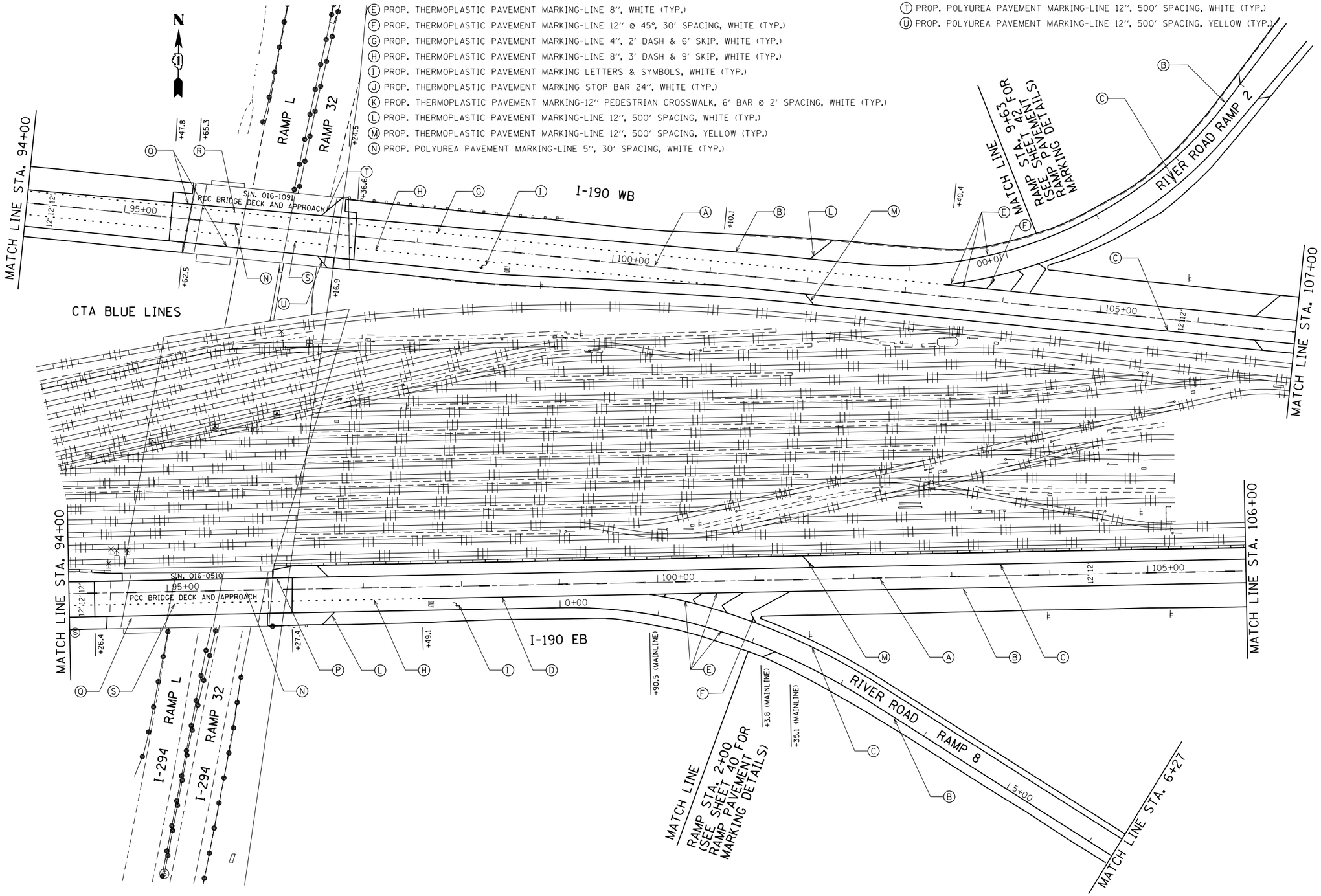
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)
- (N) PROP. POLYUREA PAVEMENT MARKING-LINE 5", 30' SPACING, WHITE (TYP.)
- (O) PROP. POLYUREA PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (P) PROP. POLYUREA PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (Q) PROP. POLYUREA PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (R) PROP. POLYUREA PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (S) PROP. POLYUREA PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (T) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (U) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)



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	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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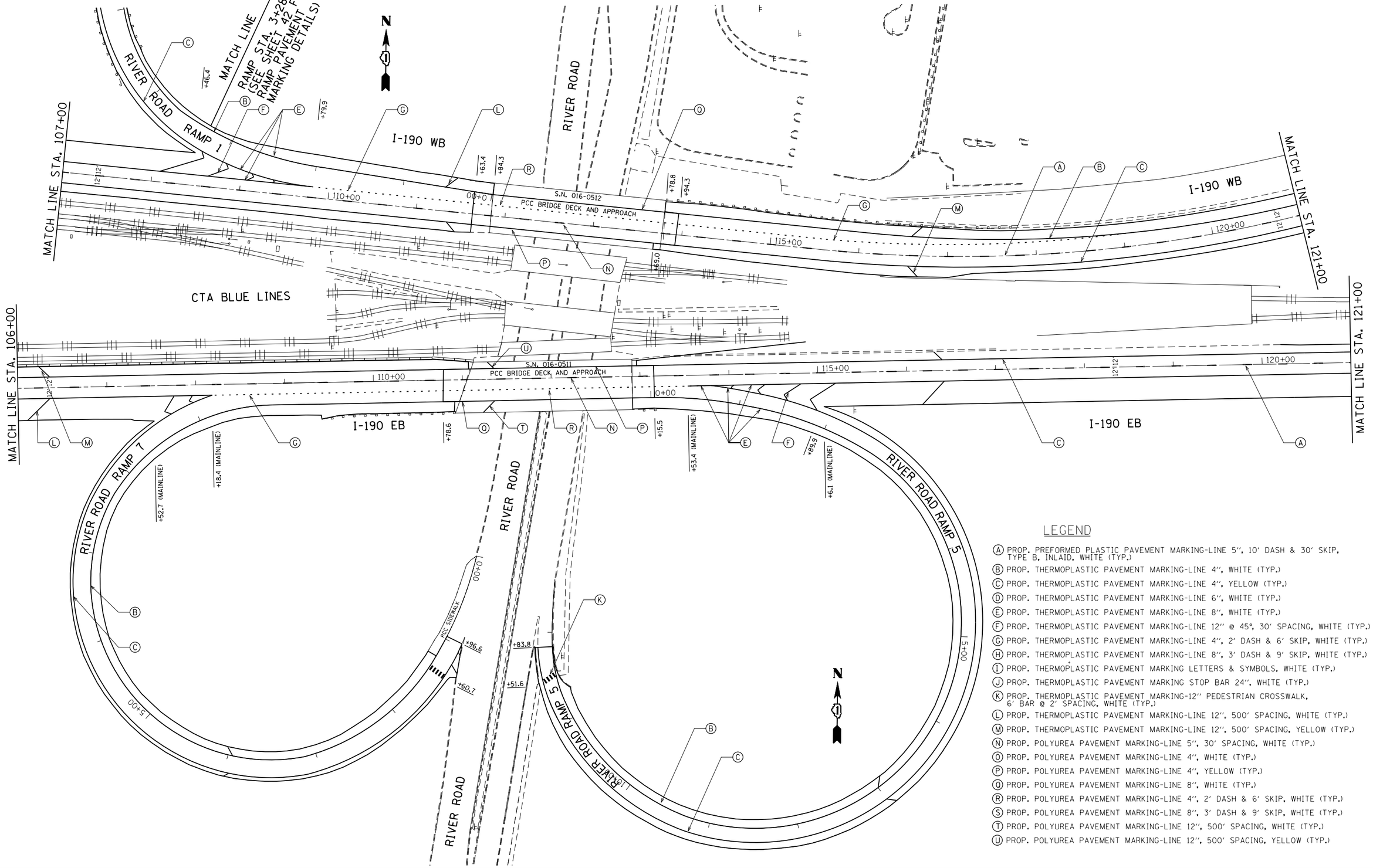
		CONTRACT NO. 60T33		
	ILLINOIS	FED. AID PROJECT		



LEGEND

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- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)
- (N) PROP. POLYUREA PAVEMENT MARKING-LINE 5", 30' SPACING, WHITE (TYP.)
- (O) PROP. POLYUREA PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (P) PROP. POLYUREA PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (Q) PROP. POLYUREA PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (R) PROP. POLYUREA PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (S) PROP. POLYUREA PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (T) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (U) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)

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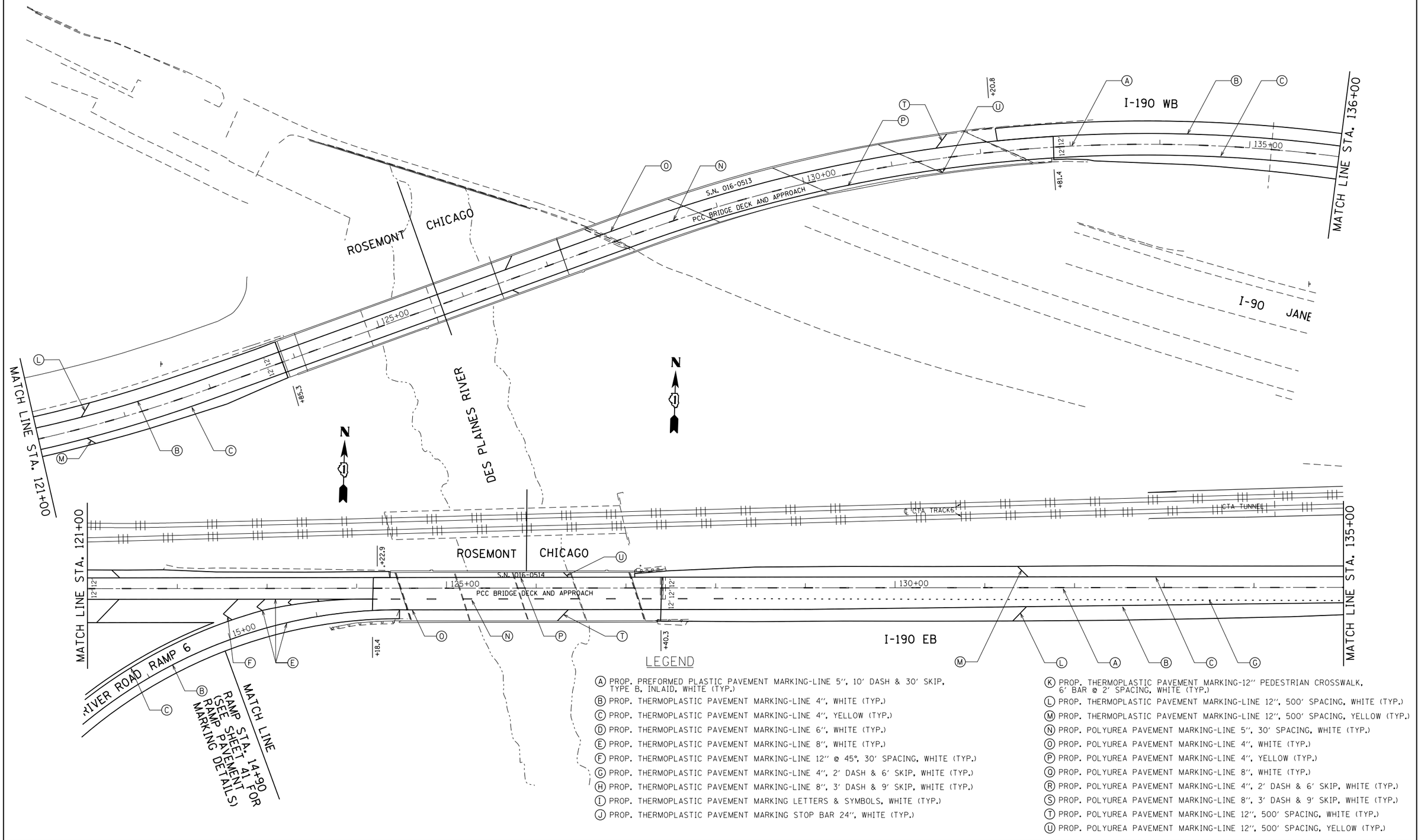
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	37
		CONTRACT NO. 60T33		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)
- (N) PROP. POLYUREA PAVEMENT MARKING-LINE 5", 30' SPACING, WHITE (TYP.)
- (O) PROP. POLYUREA PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (P) PROP. POLYUREA PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (Q) PROP. POLYUREA PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (R) PROP. POLYUREA PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (S) PROP. POLYUREA PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (T) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (U) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

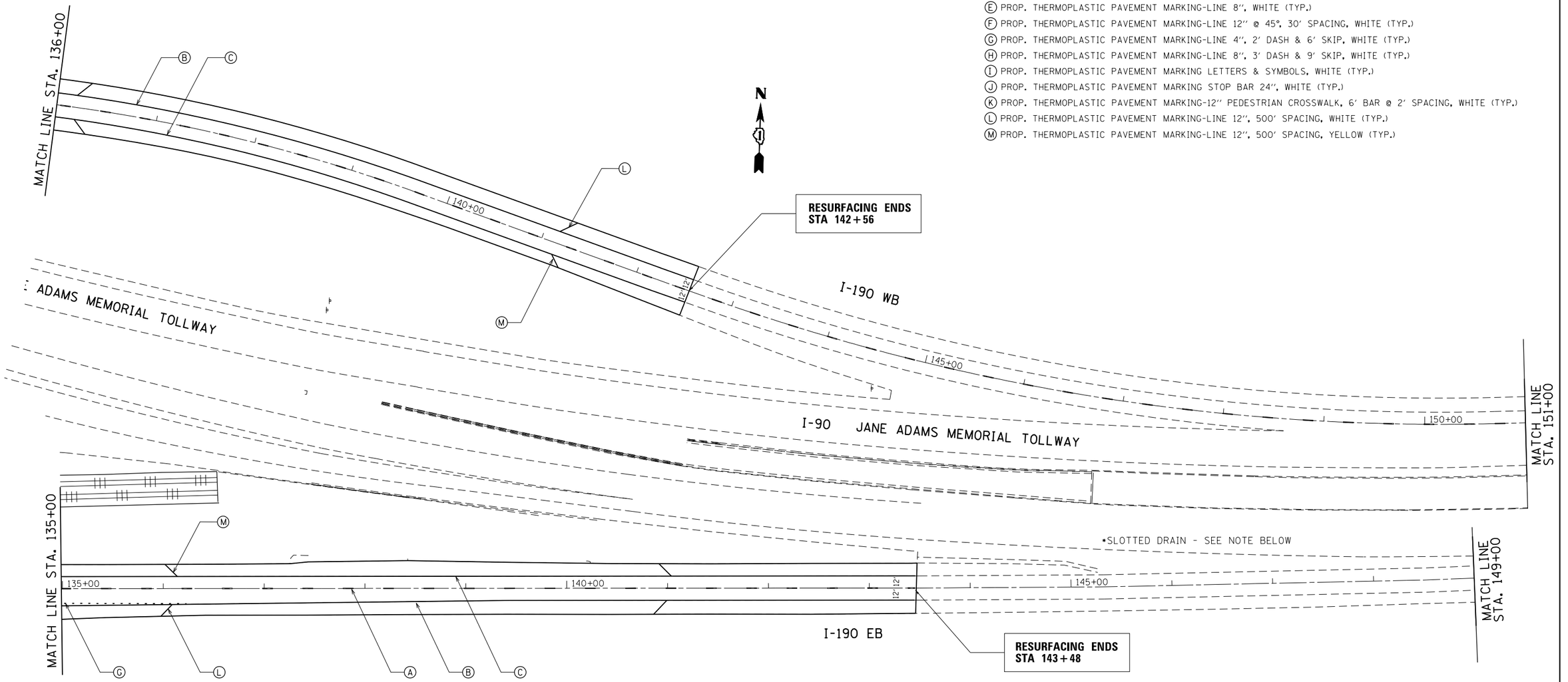
PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	38
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)



* GORE PAVEMENT MARKINGS AT THE SLOTTED DRAIN SHALL FOLLOW STATE STANDARD TYPICALS.

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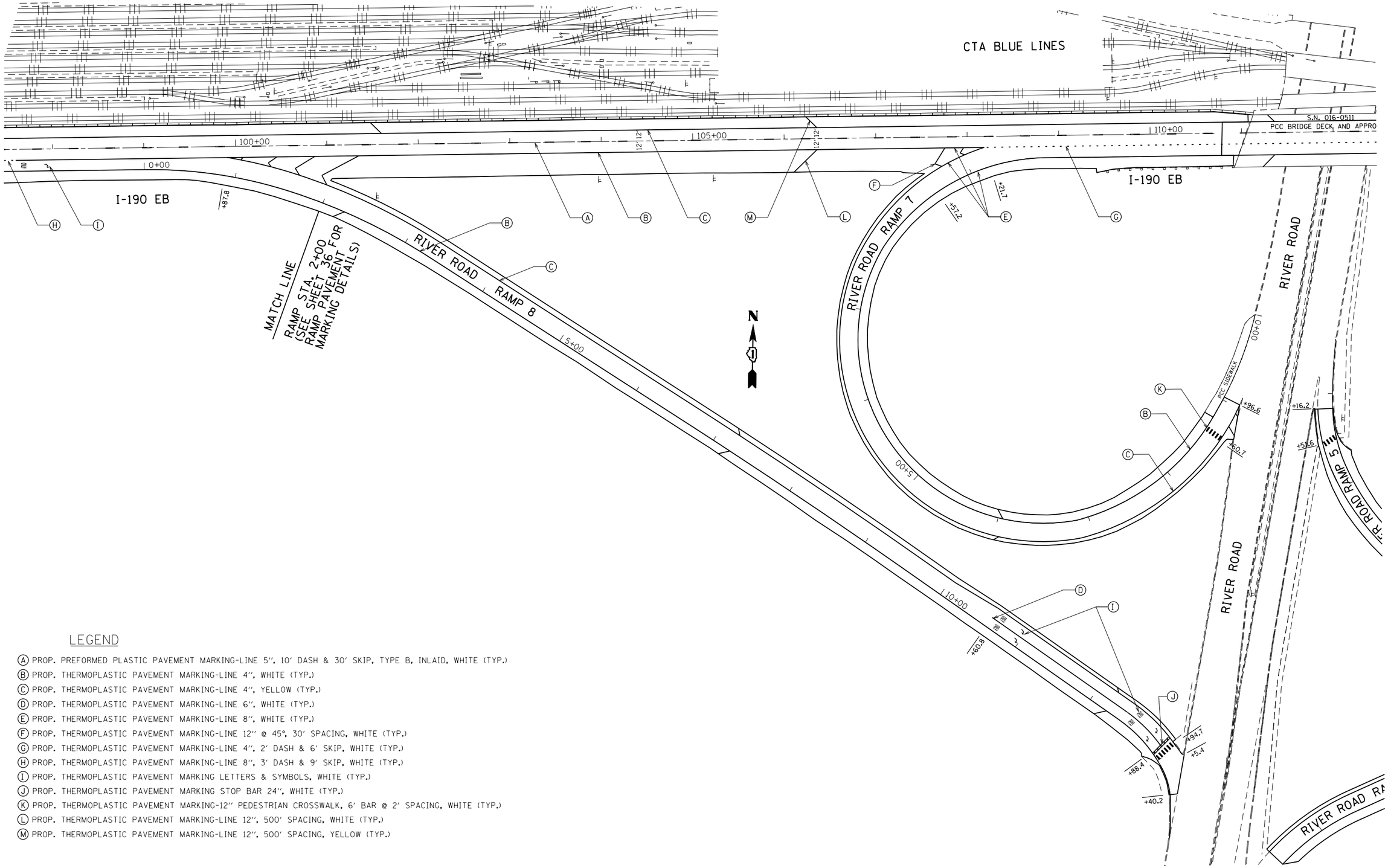
	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	39
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)

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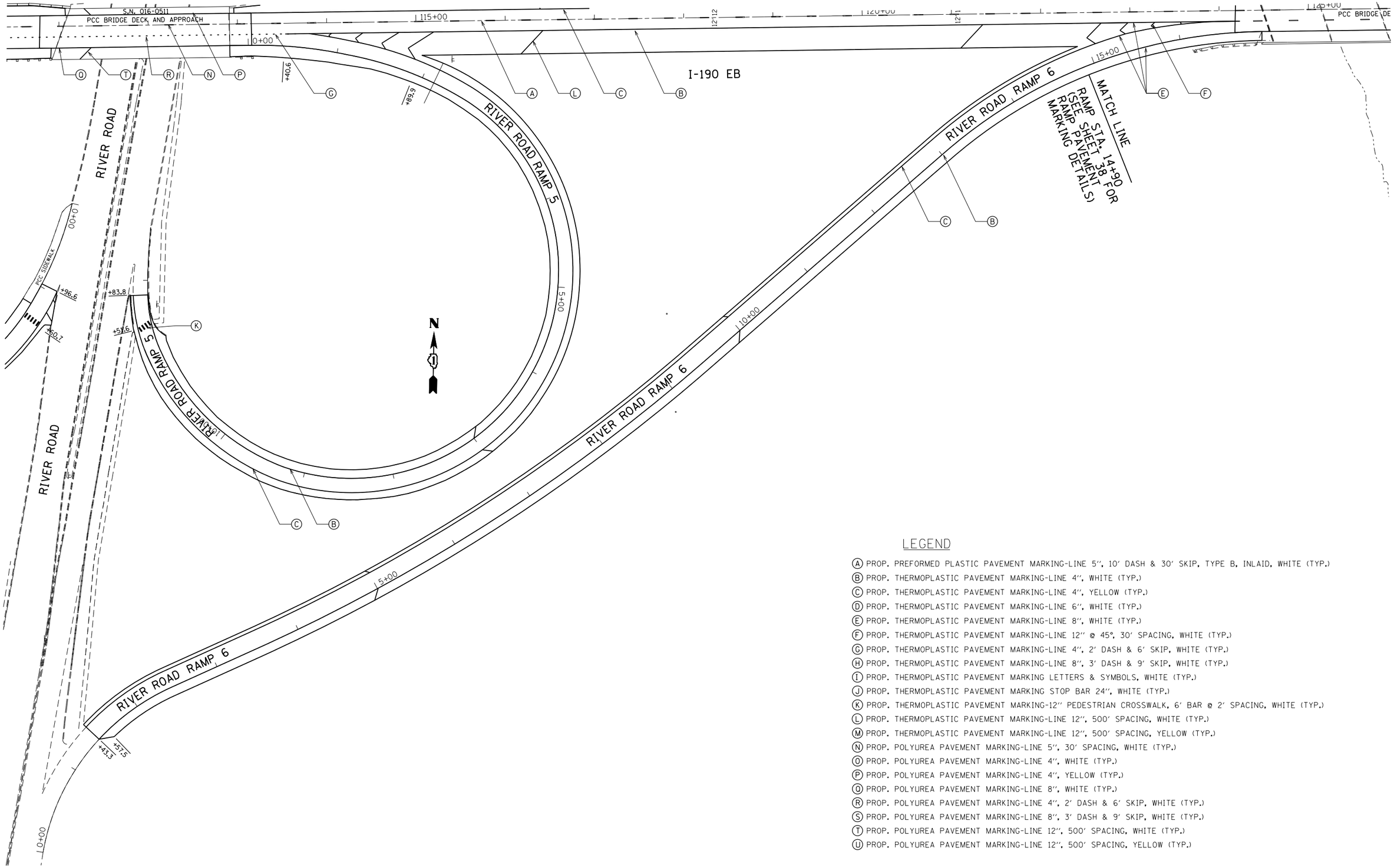
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	40
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)
- (N) PROP. POLYUREA PAVEMENT MARKING-LINE 5", 30' SPACING, WHITE (TYP.)
- (O) PROP. POLYUREA PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (P) PROP. POLYUREA PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (Q) PROP. POLYUREA PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (R) PROP. POLYUREA PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (S) PROP. POLYUREA PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (T) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (U) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)

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	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

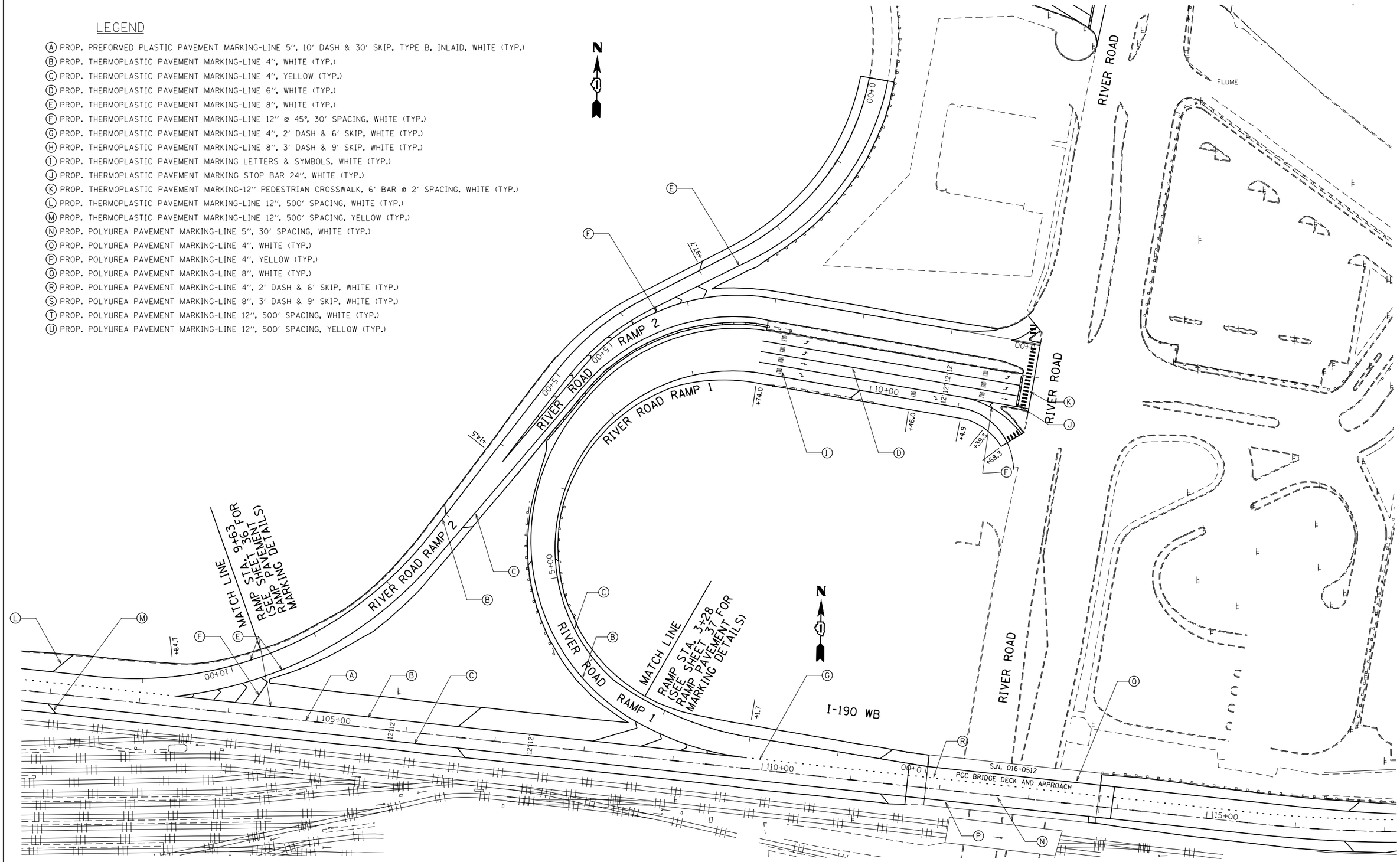
PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	41
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)
- (N) PROP. POLYUREA PAVEMENT MARKING-LINE 5", 30' SPACING, WHITE (TYP.)
- (O) PROP. POLYUREA PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (P) PROP. POLYUREA PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (Q) PROP. POLYUREA PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (R) PROP. POLYUREA PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (S) PROP. POLYUREA PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (T) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (U) PROP. POLYUREA PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)



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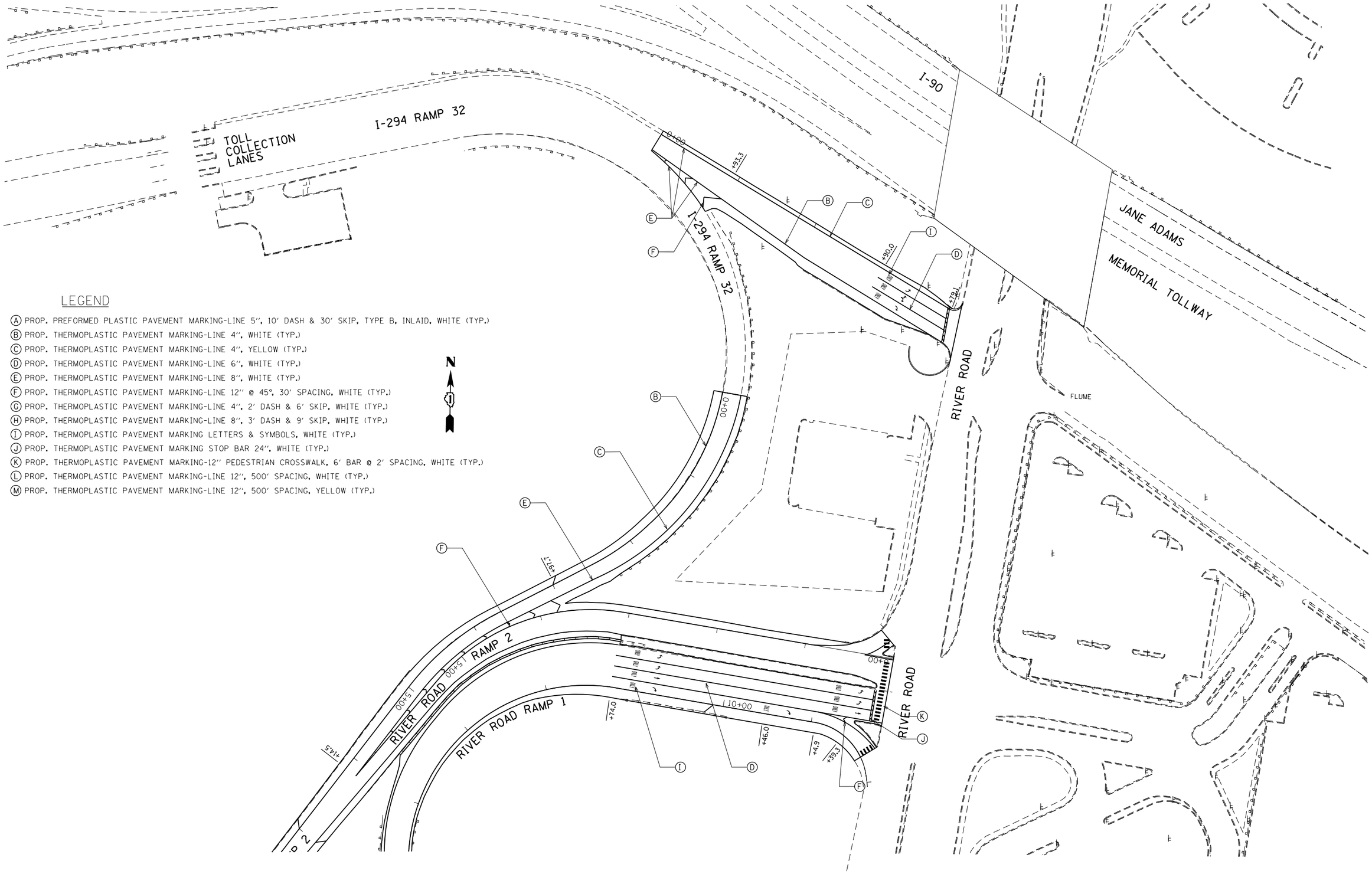
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -			190	(0101.6 & 0102.5)RS-2	COOK	85	42
	PLOT DATE = 10/18/2012	CHECKED -	REVISED -						CONTRACT NO. 60T33	
		DATE -	REVISED -		SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



LEGEND

- (A) PROP. PREFORMED PLASTIC PAVEMENT MARKING-LINE 5", 10' DASH & 30' SKIP, TYPE B, INLAID, WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", WHITE (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 45°, 30' SPACING, WHITE (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 2' DASH & 6' SKIP, WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", 3' DASH & 9' SKIP, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING STOP BAR 24", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT MARKING-12" PEDESTRIAN CROSSWALK, 6' BAR @ 2' SPACING, WHITE (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, WHITE (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", 500' SPACING, YELLOW (TYP.)

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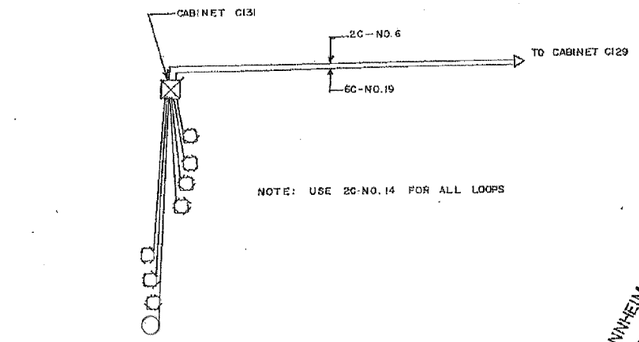
	PLOT DATE = 10/19/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
I-190 (O'HARE AIRPORT TO I-90)

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	43
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

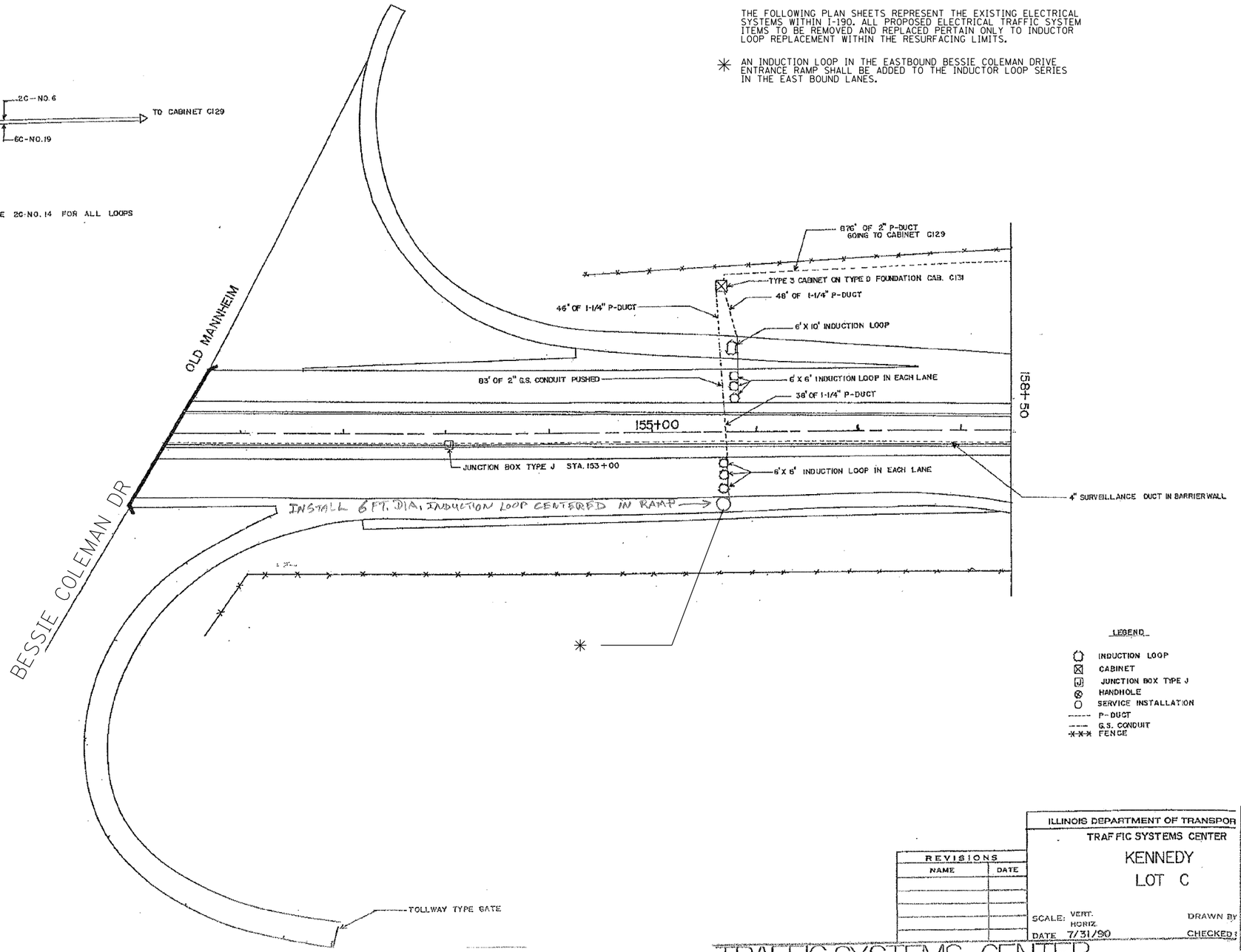


WIRING DIAGRAM

NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

✳ AN INDUCTION LOOP IN THE EASTBOUND BESSIE COLEMAN DRIVE ENTRANCE RAMP SHALL BE ADDED TO THE INDUCTOR LOOP SERIES IN THE EAST BOUND LANES.



LEGEND

- INDUCTION LOOP
- CABINET
- JUNCTION BOX TYPE J
- HANDHOLE
- SERVICE INSTALLATION
- P-DUCT
- G.S. CONDUIT
- FENCE

ILLINOIS DEPARTMENT OF TRANSPOR
TRAFFIC SYSTEMS CENTER

KENNEDY
LOT C

REVISIONS	
NAME	DATE

SCALE: VERT.
HORIZ.
DRAWN BY
DATE 7/31/90
CHECKED

TRAFFIC SYSTEMS CENTER

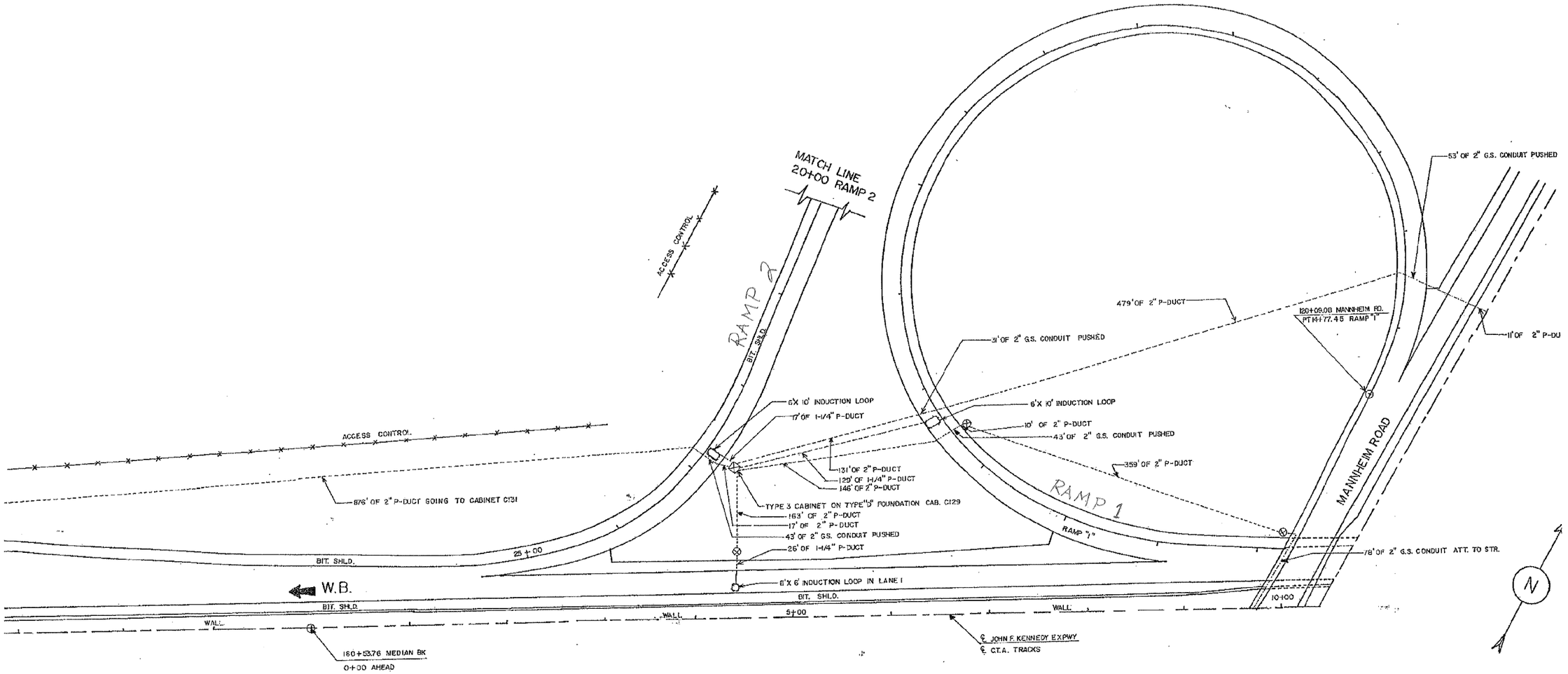
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/19/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	44
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



LEGEND

- INDUCTION LOOP
- CABINET
- JUNCTION BOX TYPE J
- HANDHOLE
- SERVICE INSTALLATION
- P-DUCT
- G.S. CONDUIT
- FENCE

NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPOR
TRAFFIC SYSTEMS CENTER
KENNEDY
MANNHEIM
NORTHWEST QUADRAN

SCALE: VERT.
HORIZ.
DRAWN BY
DATE 7/27/90
CHECKED

TRAFFIC SYSTEMS CENTER

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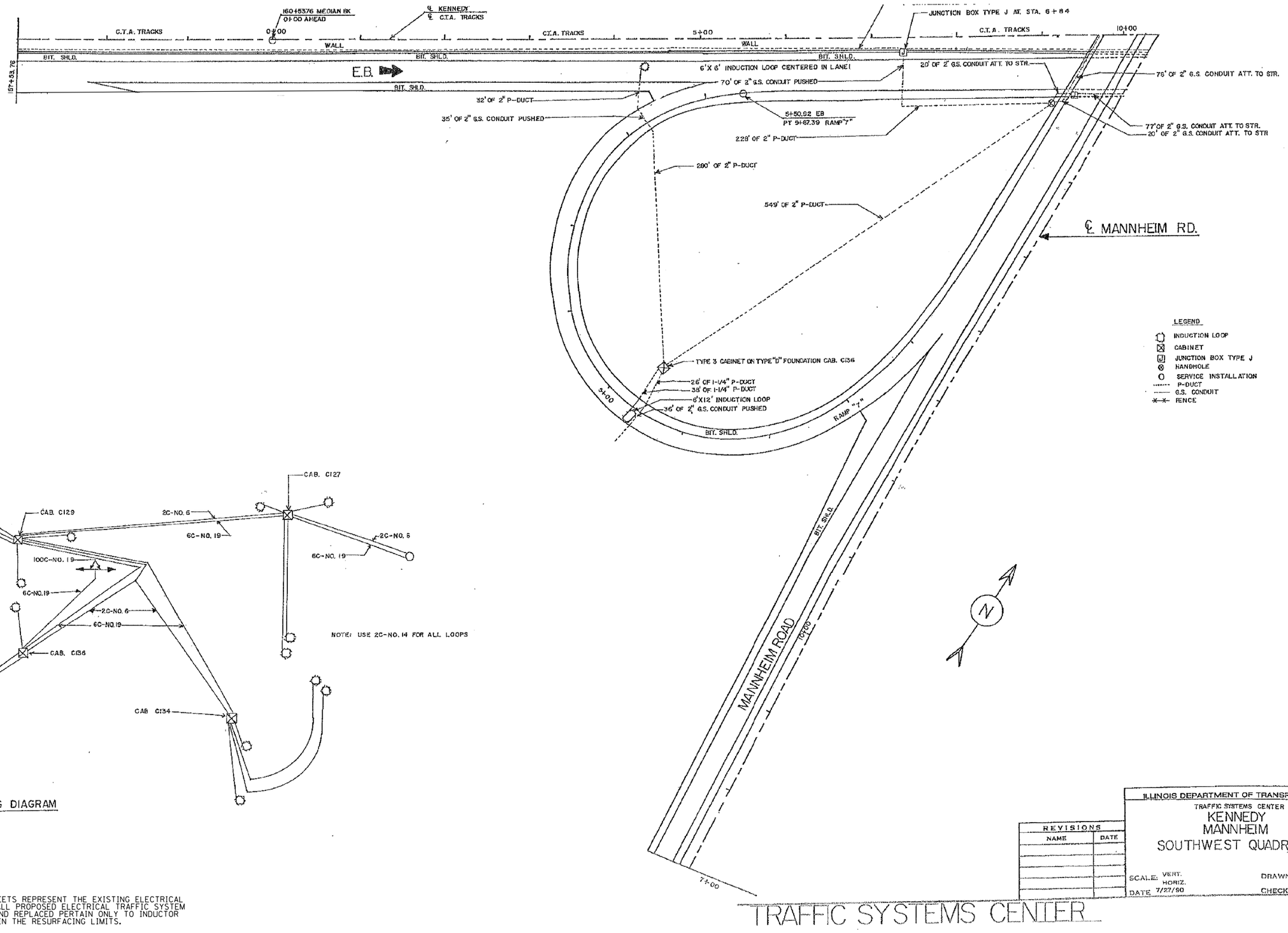
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I–190 (O'HARE AIRPORT TO I–90)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	45
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



WIRING DIAGRAM

NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORT
TRAFFIC SYSTEMS CENTER
KENNEDY
MANNHEIM
SOUTHWEST QUADRAN

SCALE: VERT. HORIZ.
DATE 7/27/90
DRAWN BY
CHECKED B

TRAFFIC SYSTEMS CENTER

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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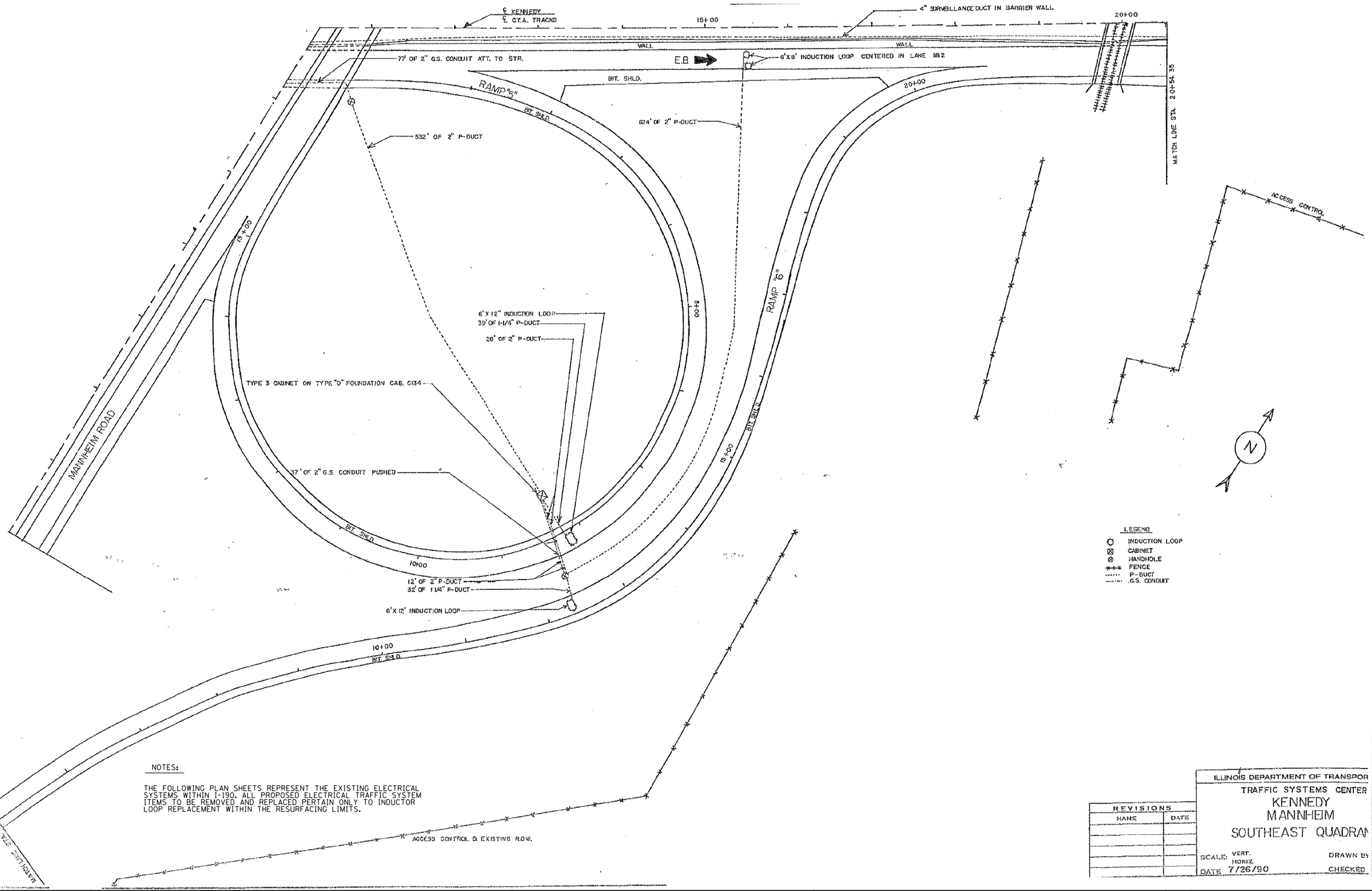
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	46
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPOR
TRAFFIC SYSTEMS CENTER
KENNEDY
MANNHEIM
SOUTHEAST QUADRAN
SCALE: VERT.
HORIZ.
DRAWN BY
DATE 7/26/90
CHECKED

FILE NAME =	USER NAME = rodriguezma	DESIGNED -	REVISED -
c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

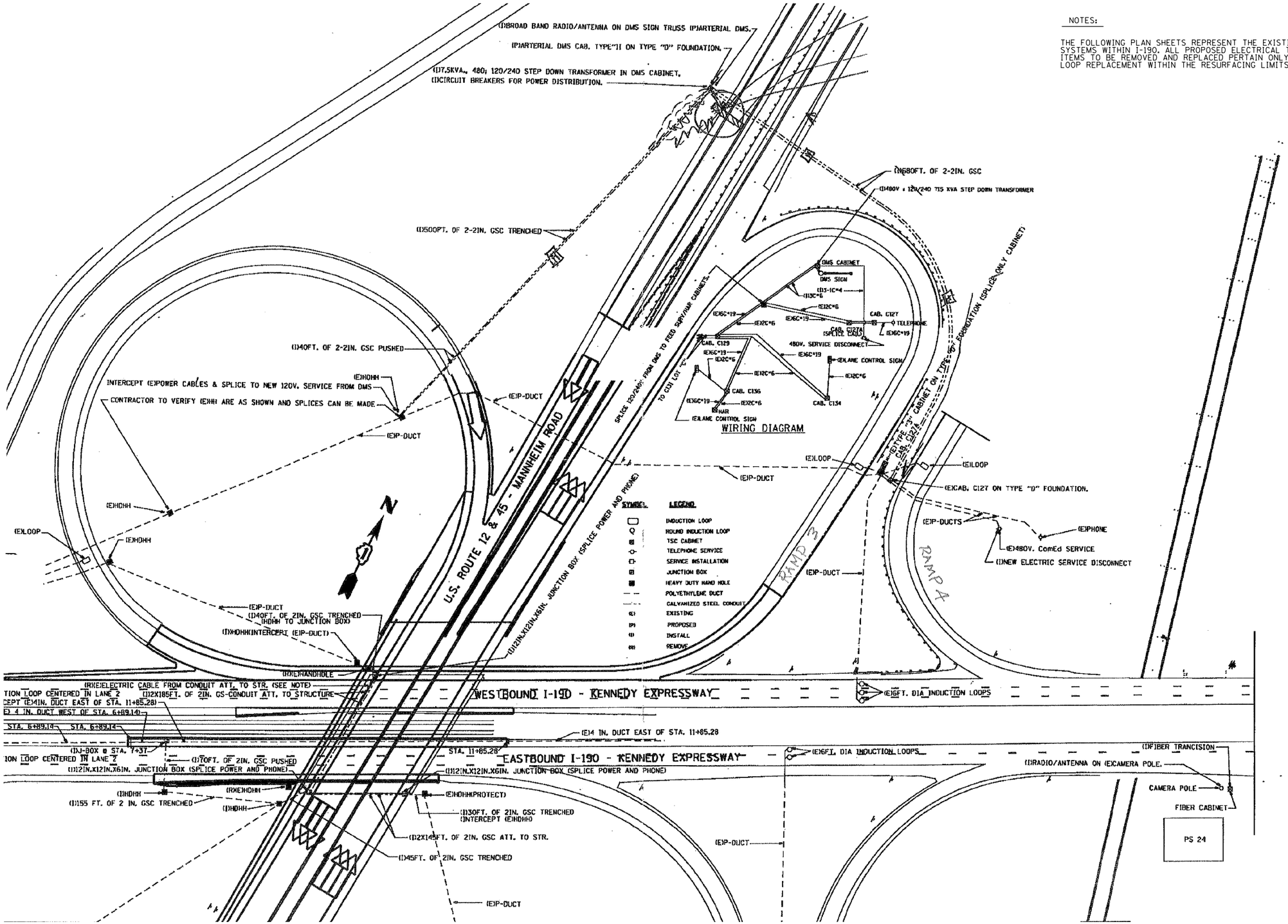
DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

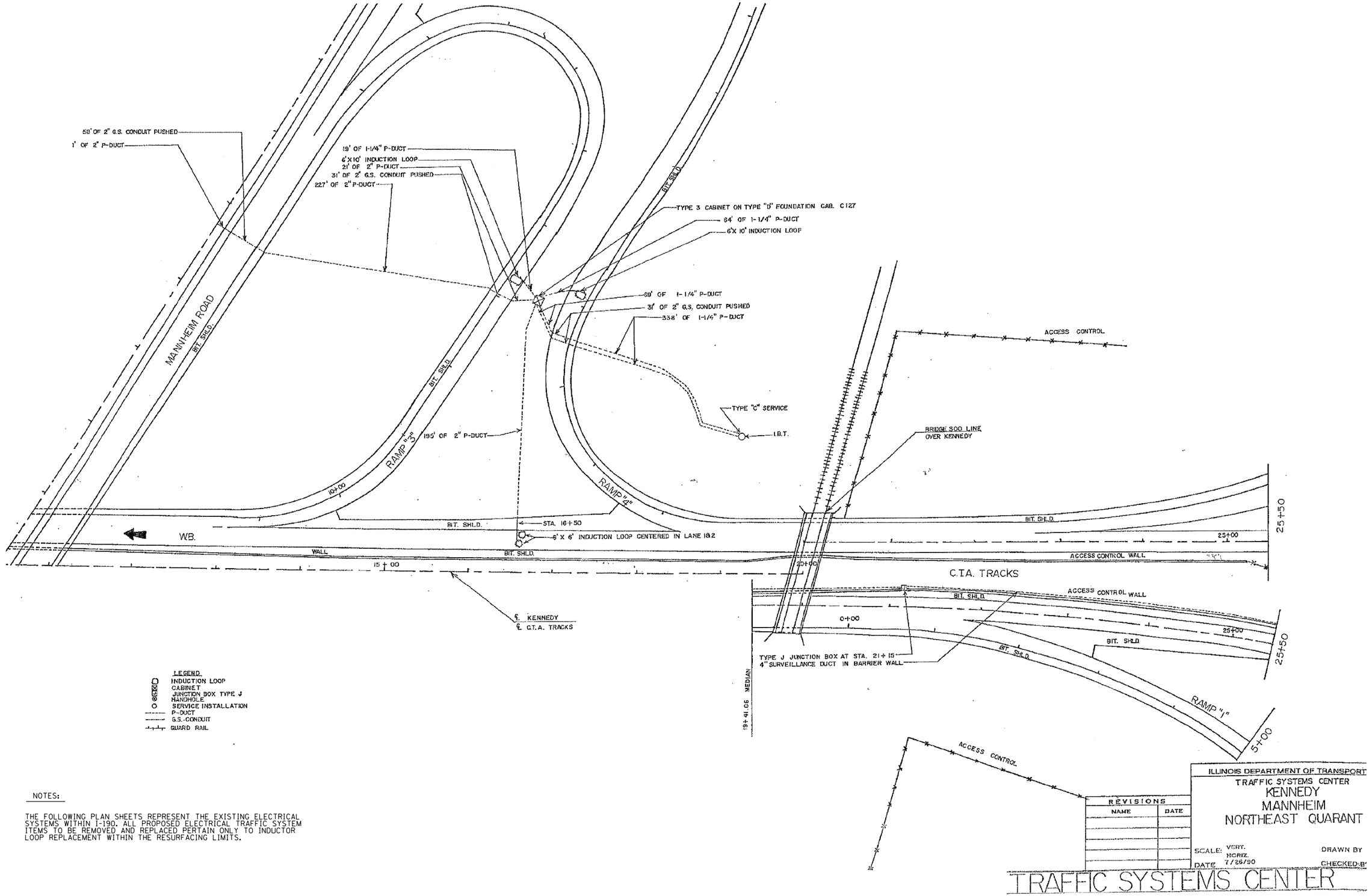
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	47
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.



FILE NAME =	USER NAME = rodriguezma	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE – INDUCTOR LOOP REPLACEMENT I-190 (O'HARE AIRPORT TO I-90)	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn		DRAWN -	REVISED -			190	(0101.6 & 0102.5)RS-2	COOK	85	48
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 60T33		
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORT
TRAFFIC SYSTEMS CENTER
KENNEDY
MANNHEIM
NORTHEAST QUARANT

SCALE: VERT.
HORIZ.
DATE 7/26/90
DRAWN BY
CHECKED BY

TRAFFIC SYSTEMS CENTER

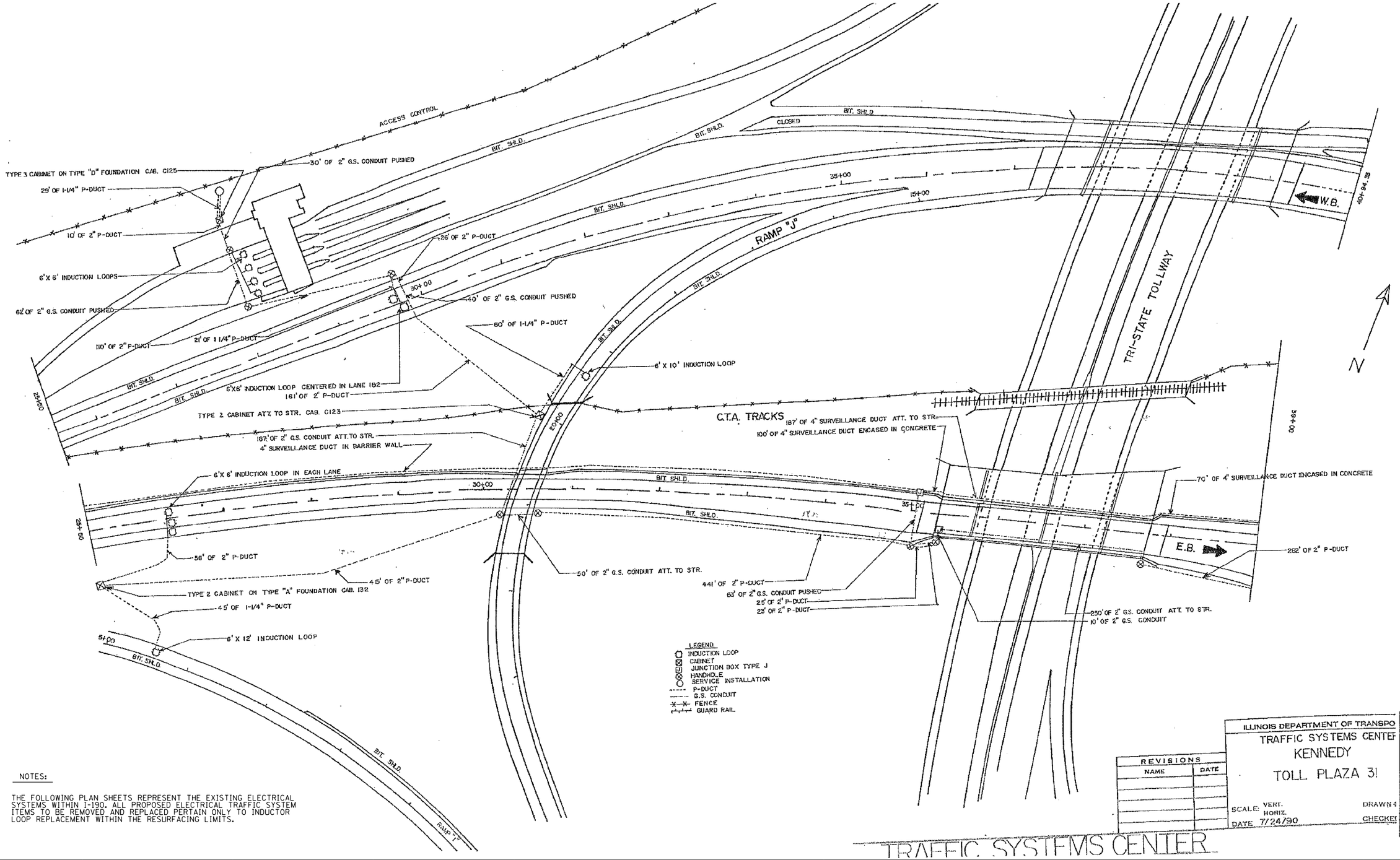
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	49
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPO
TRAFFIC SYSTEMS CENTER
KENNEDY
TOLL PLAZA 31

SCALE: VERT.
HORIZ.
DRAWN
DATE 7/24/90
CHECKED

TRAFFIC SYSTEMS CENTER

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
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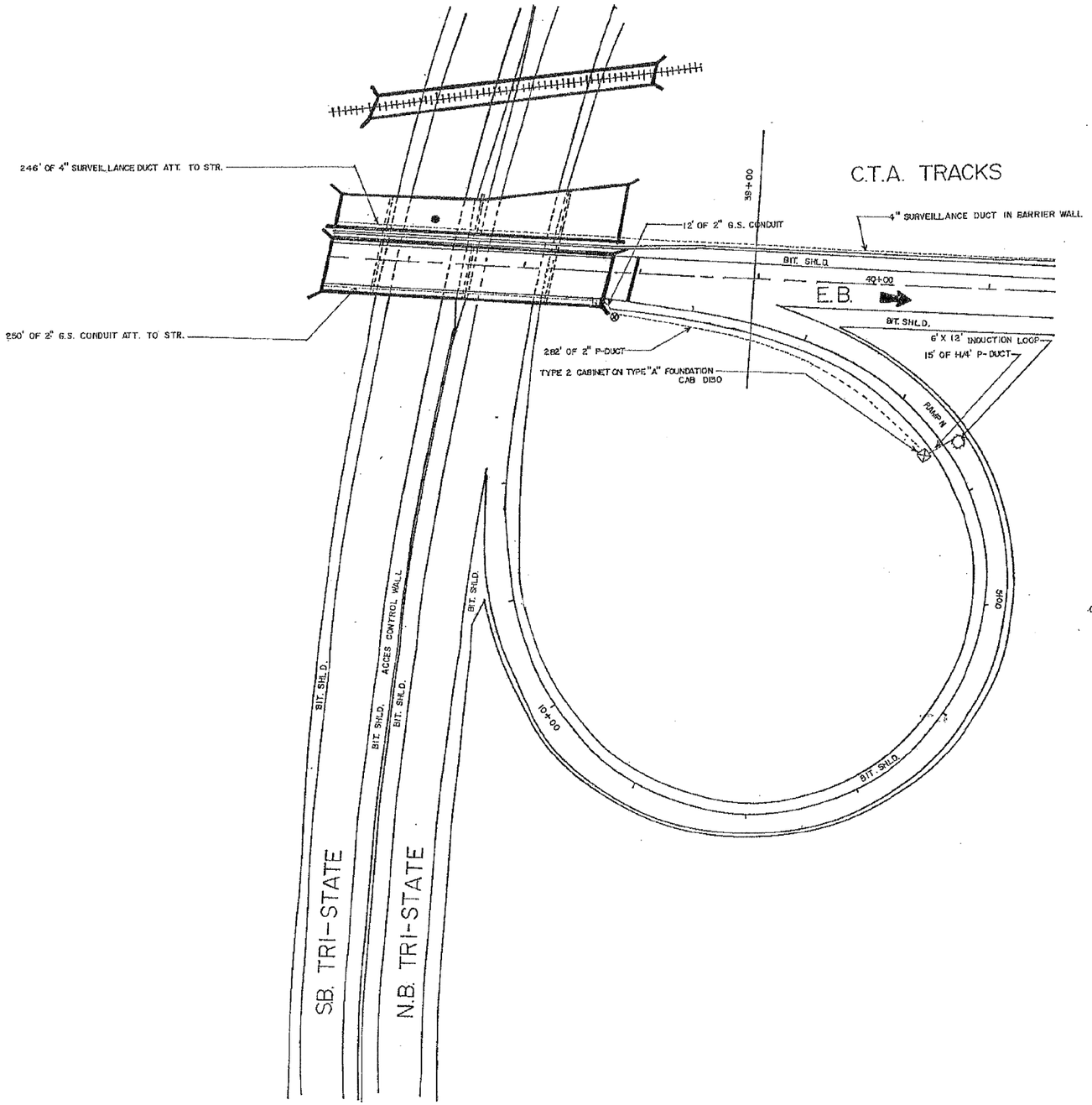
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

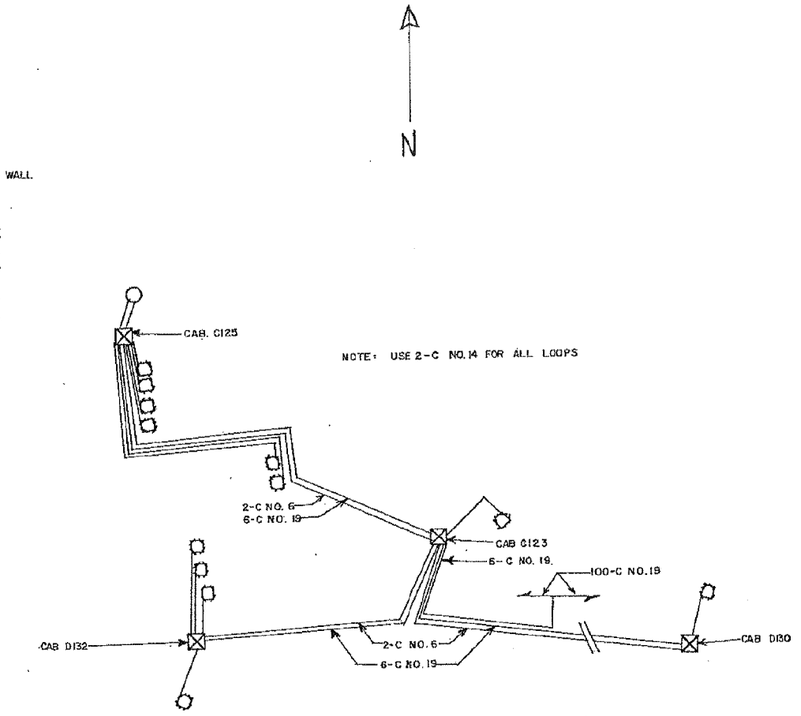
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	50
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			





WIRING DIAGRAM

LEGEND
- INDUCTION LOOP
- CABINET
- JUNCTION BOX TYPE "J"
- HANDHOLE
- SERVICE INSTALLATION
- P-DUCT
- G.S. CONDUIT
- FENCE
- LIGHT STANDARD

NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORT
TRAFFIC SYSTEMS CENTE
E.B. KENNEDY
TRI-STATE TOLLW
SCALE: VERT. HORIZ.
DRAWN BY
DATE 7/18/90
CHECKED E

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

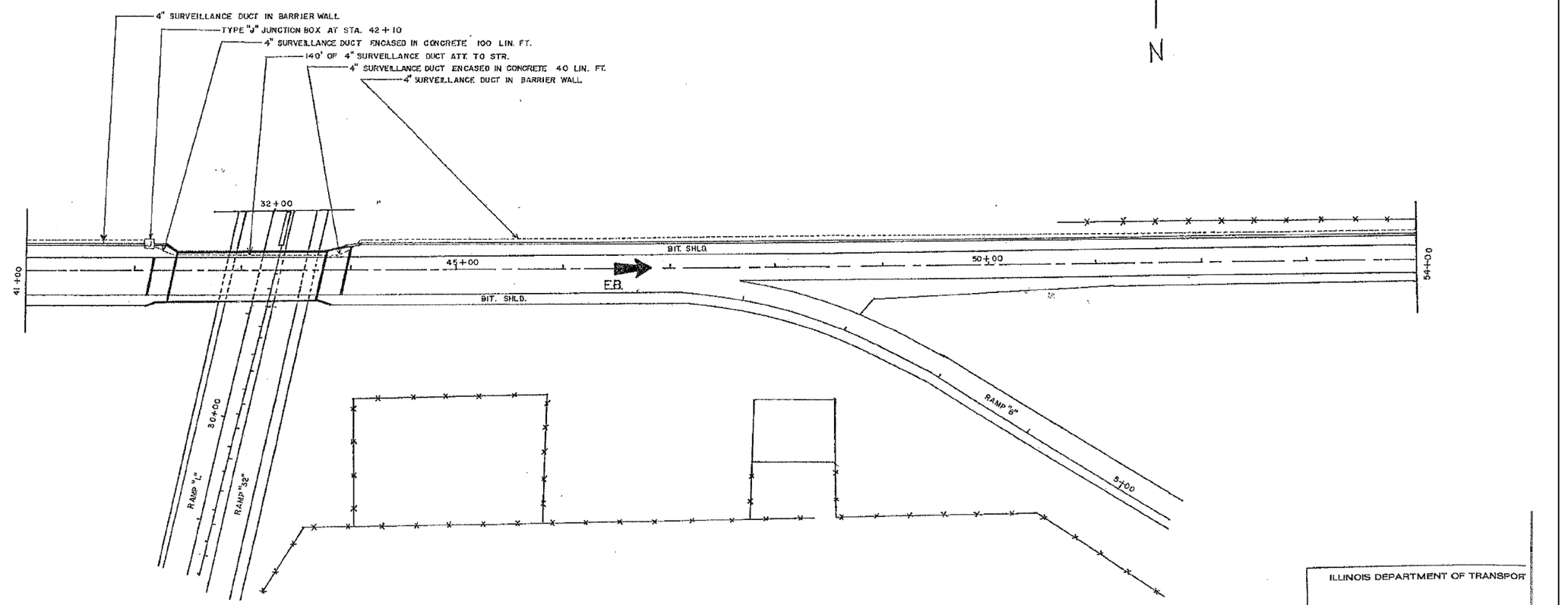
DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	51
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

LEGEND
- INDUCTION LOOP
- CABINET
- JUNCTION BOX TYPE J
- P-DUCT
- G.S. CONDUIT
- HANDHOLE

N



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPOR

SCALE: VERT. HORIZ. DRAWN BY

DATE: 7/17/90 CHECKED

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
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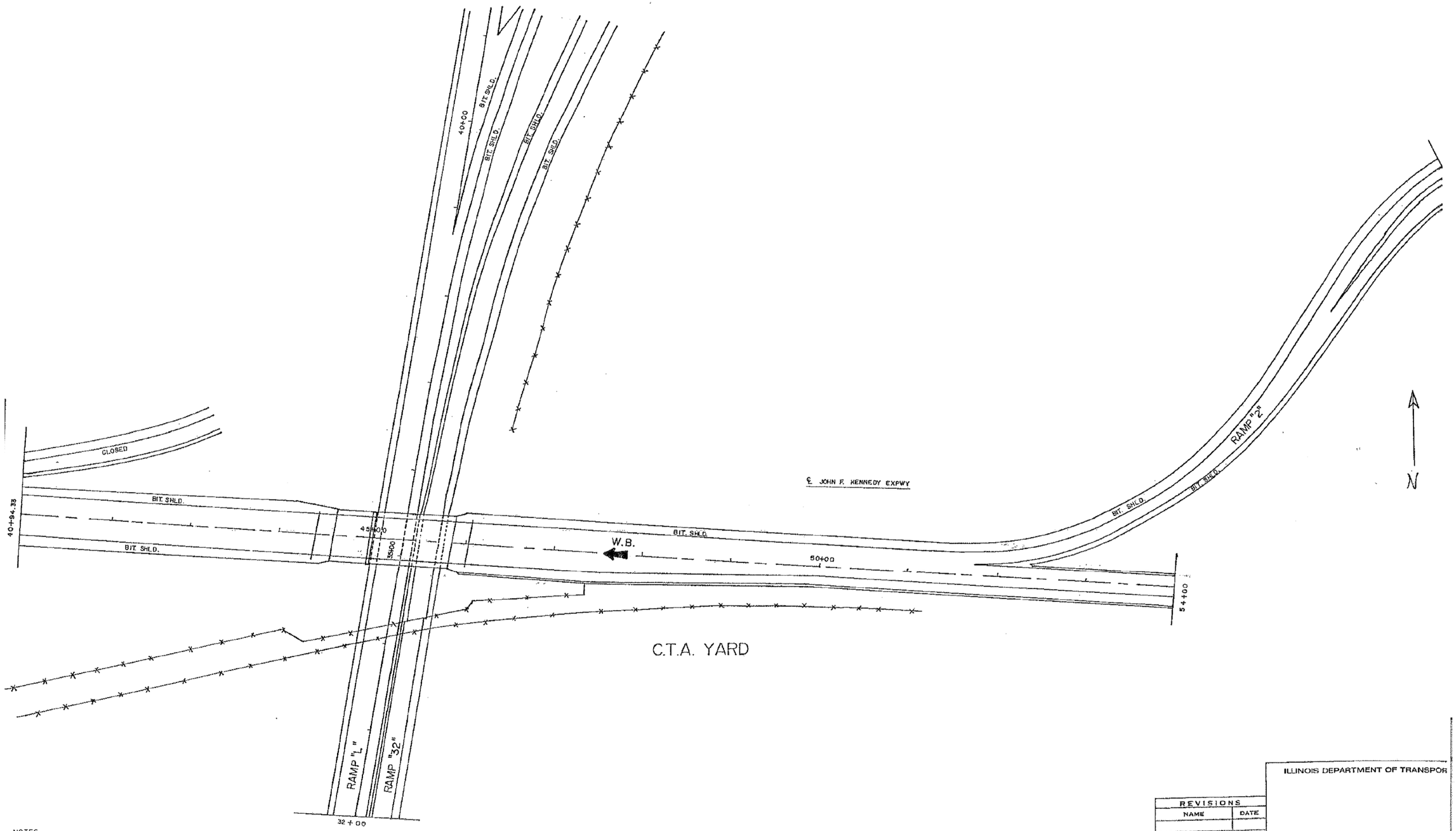
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	52
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

ILLINOIS DEPARTMENT OF TRANSPOR

REVISIONS	
NAME	DATE

SCALE: VERT.
HORIZ.
DATE 7/17/90
DRAWN BY
CHECKED

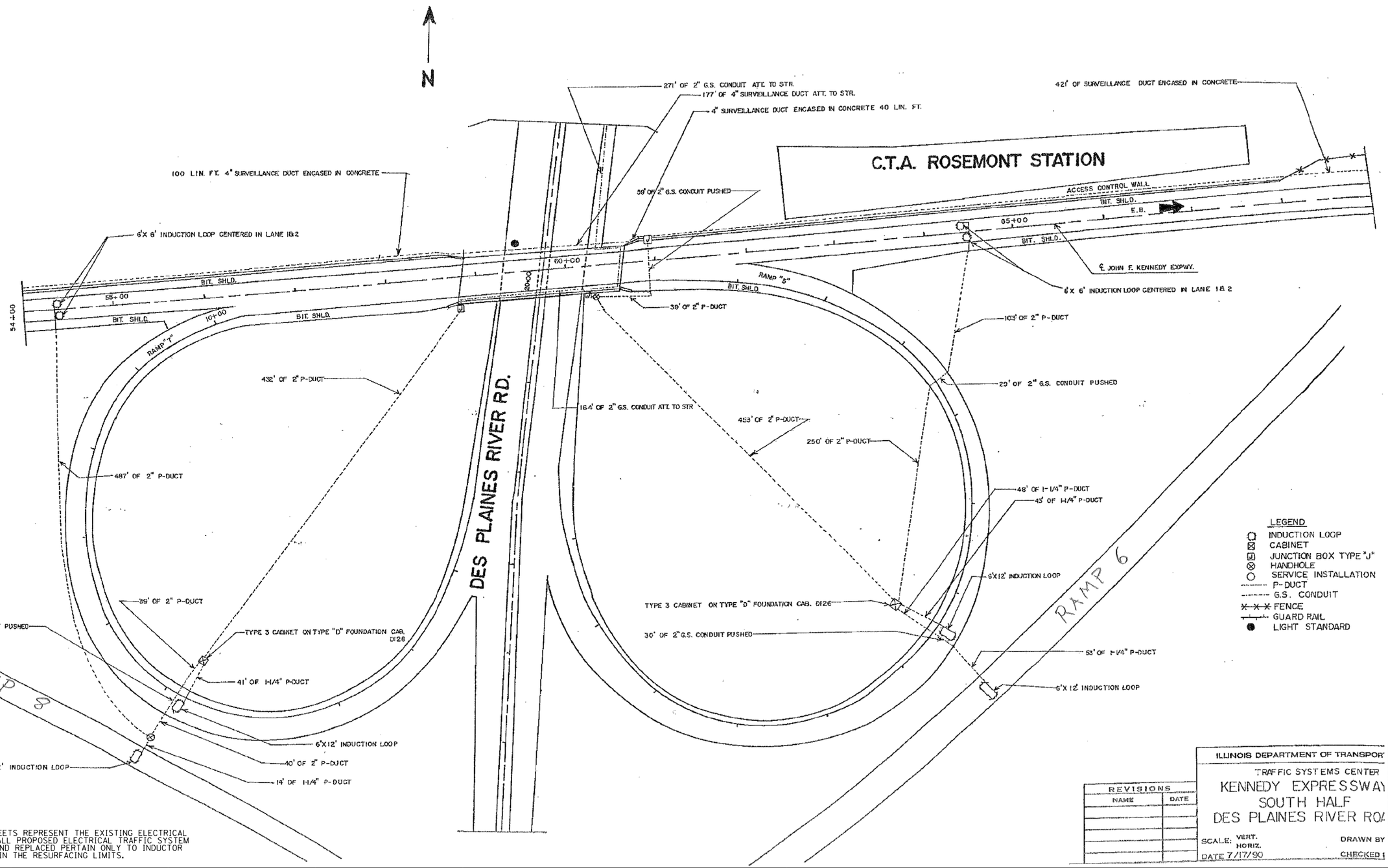
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	53
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPOR
TRAFFIC SYSTEMS CENTER
KENNEDY EXPRESSWAY
SOUTH HALF
DES PLAINES RIVER RO
SCALE: VERT.
HORIZ.
DRAWN BY
DATE 7/17/90
CHECKED

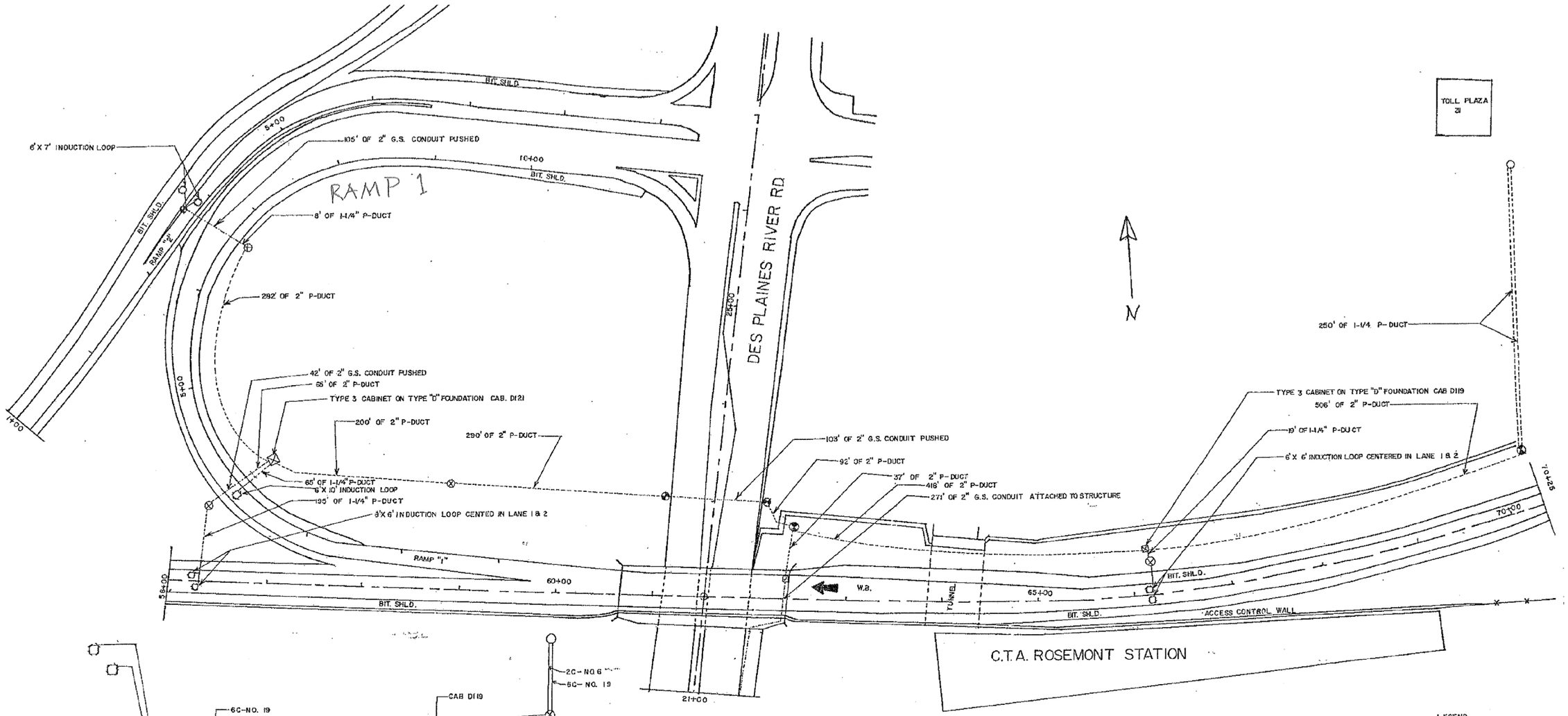
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	54
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

LEGEND

- INDUCTION LOOP
- CABINET
- JUNCTION BOX TYPE "J"
- HANDHOLE
- SERVICE INSTALLATION
- PULL POINT
- P-DUCT
- G.S. CONDUIT
- FENCE
- GUARD RAIL
- LIGHT STANDARD
- HEAVY DUTY HANDHOLE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORT
TRAFFIC SYSTEMS CENTER
KENNEDY EXPRESSWAY
NORTH HALF
DES PLAINES RIVEP

SCALE: VERT.
HORIZ.
DATE 7/13/90

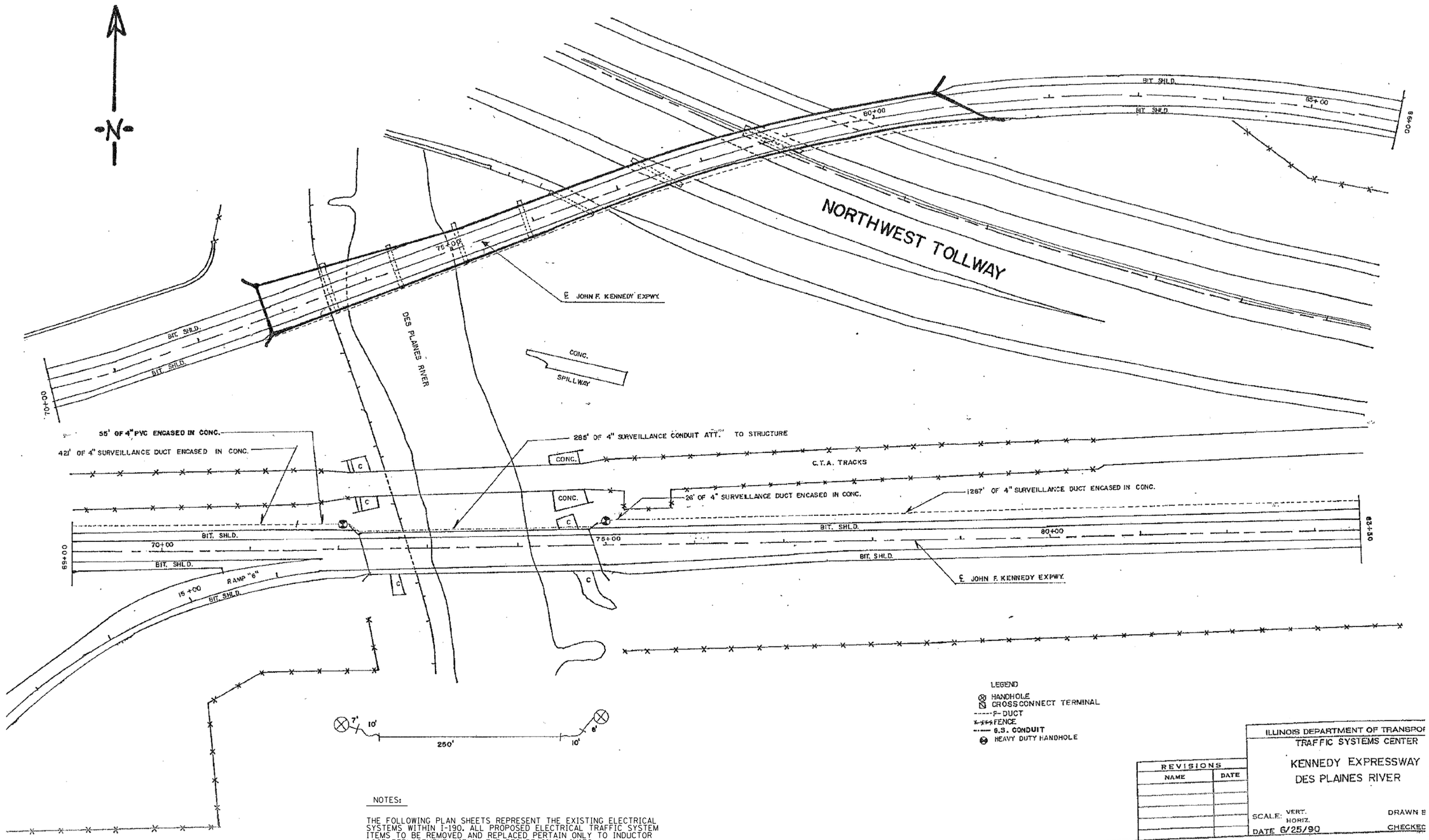
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	55
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



LEGEND

- HANDHOLE
- CROSSCONNECT TERMINAL
- P- DUCT
- FENCE
- S.S. CONDUIT
- HEAVY DUTY HANDHOLE

NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPOR
TRAFFIC SYSTEMS CENTER

KENNEDY EXPRESSWAY
DES PLAINES RIVER

SCALE: VERT.
HORIZ.
DRAWN B
DATE 6/25/90
CHECKED

TRAFFIC SYSTEMS CENTER

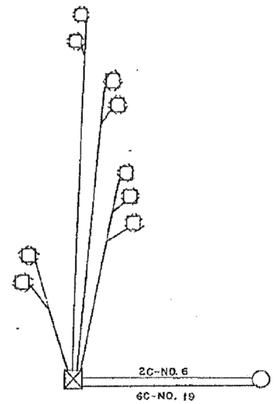
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	56
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



NOTE: USE 2C-NO.14 FOR ALL LOOPS

LEGEND

- INDUCTION LOOP
- CABINET
- JUNCTION BOX
- HANDHOLE
- SERVICE INSTALLATION
- PULL POINT
- DUCT
- CONDUIT
- FENCE
- GUARD RAIL
- LIGHT STANDARD

NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO INDUCTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPOR
TRAFFIC SYSTEMS CENTER
KENNEDY EXPRESSWAY
NORTHWEST TOLLWAY

SCALE: VERT.
HORIZ.
DRAWN BY
DATE 6/21/90
CHECKED

TRAFFIC SYSTEMS CENTER

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – INDUCTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5)RS-2	COOK	85	57
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

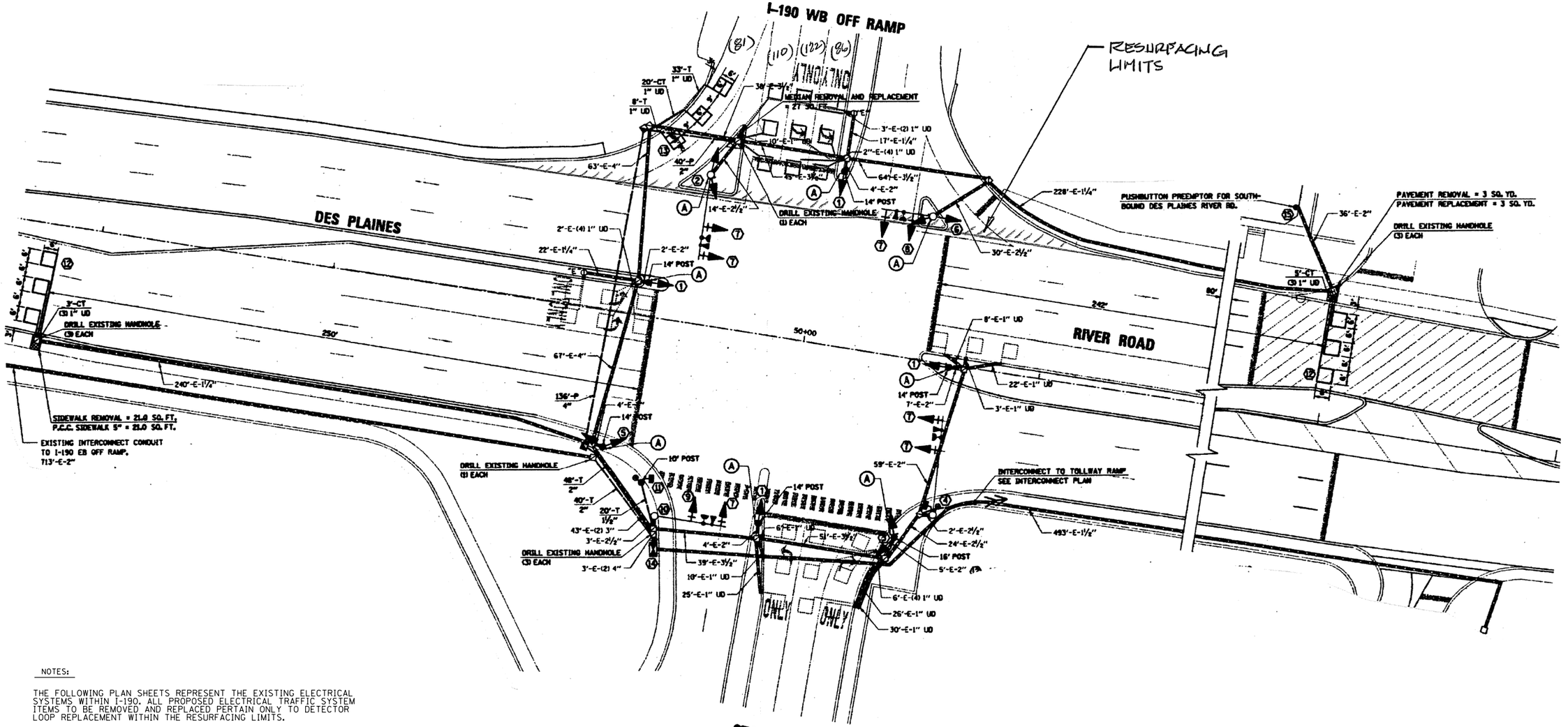
WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "**TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS**". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "**INSPECTION OF CONSTRUCTION**" AND "**DETECTOR LOOP REPLACEMENT**" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS **SHALL NOT BE PAID.** WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

N

10 0 10 20 30 40 50
SCALE IN FEET
1" = 20'

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	-----	———
DETECTOR LOOP	□	
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO DETECTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
88600600	399	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – DETECTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

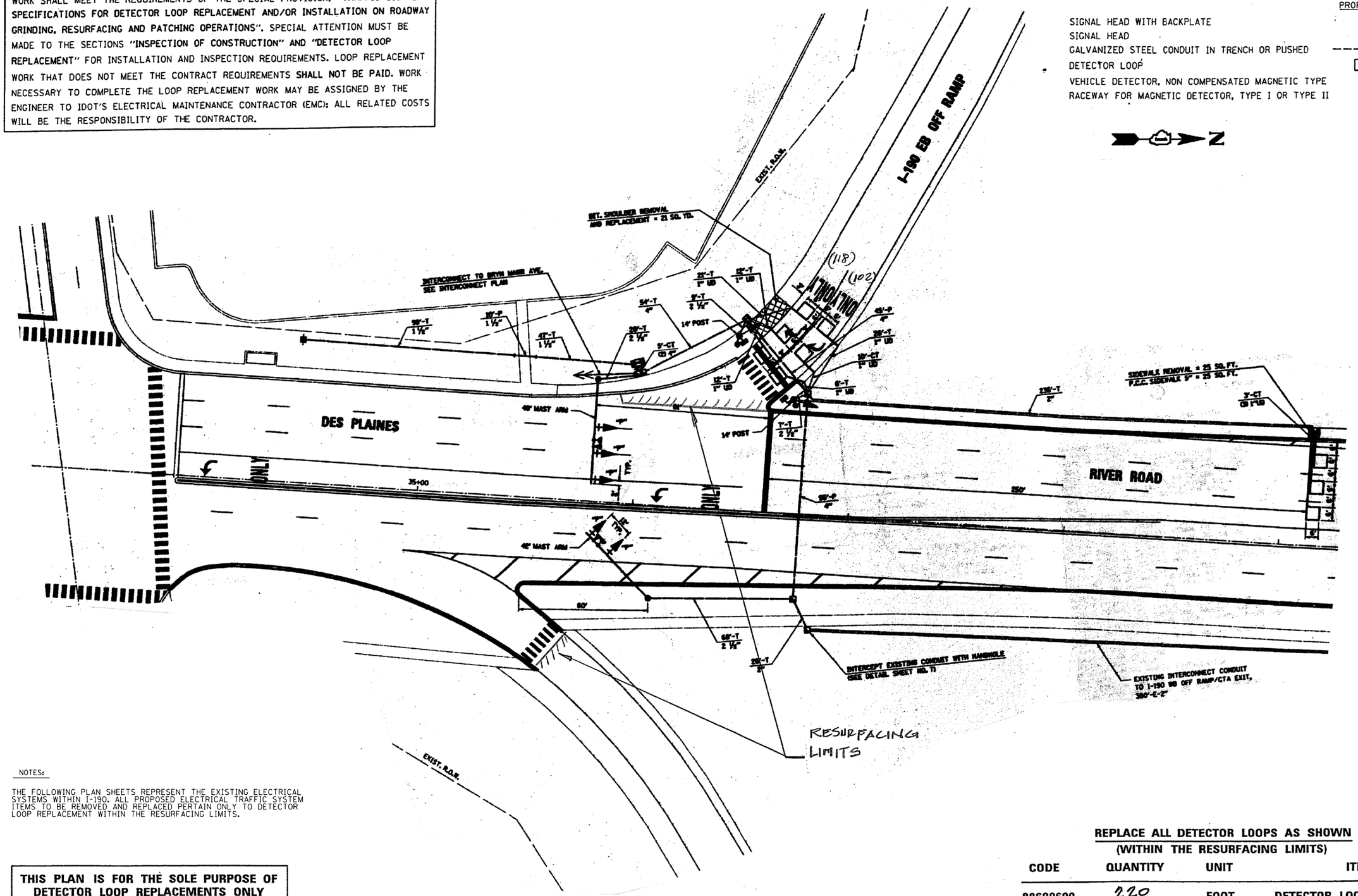
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5) RS-2	COOK	85	58
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, **"TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS"**. SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS **"INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT"** FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS **SHALL NOT BE PAID.** WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	------	———
DETECTOR LOOP	□	
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"

N



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO DETECTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
88600600	220	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\D132812-DetectorLoop.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – DETECTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

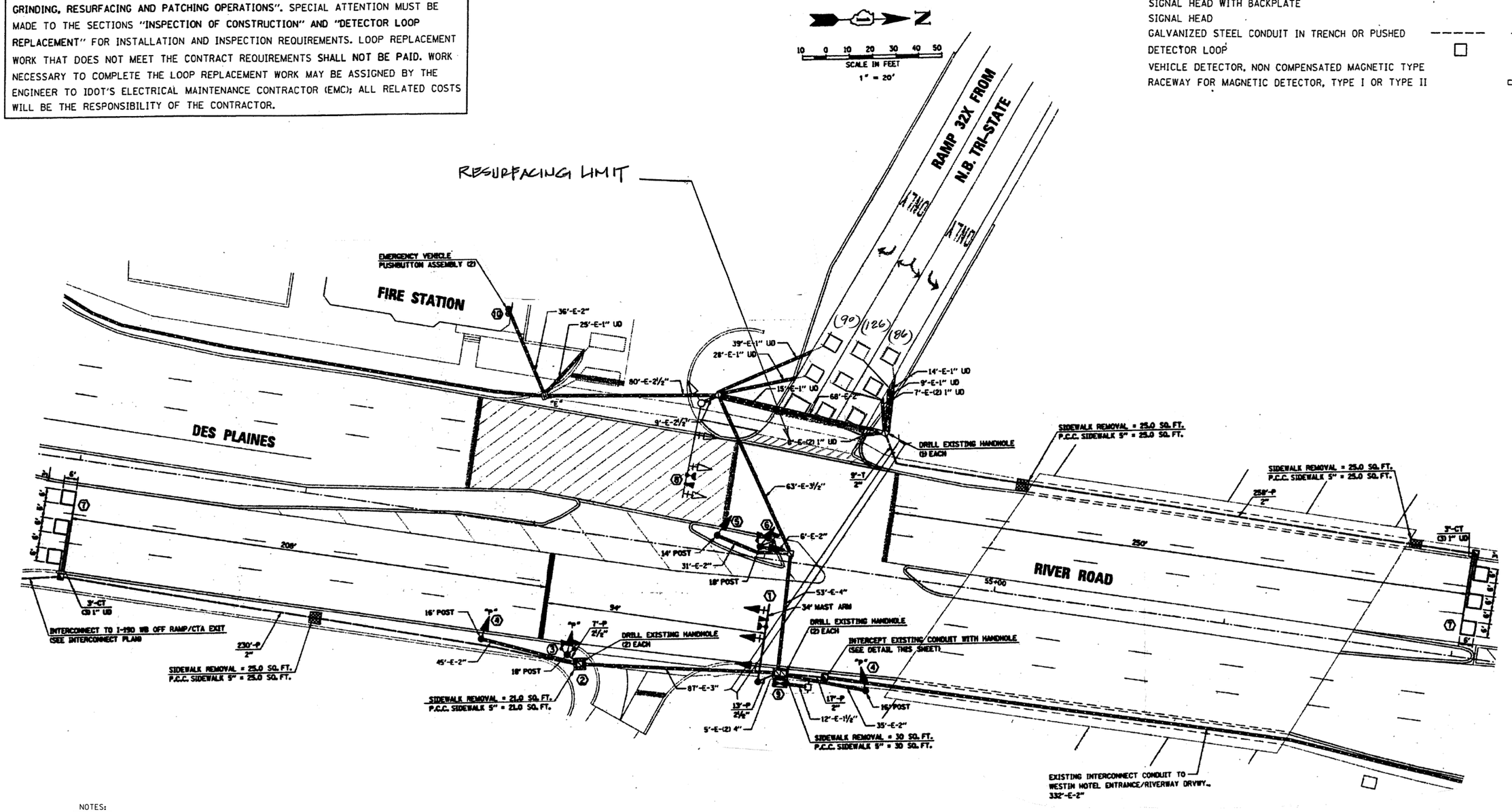
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5) RS-2	COOK	85	59
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "**TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS**". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "**INSPECTION OF CONSTRUCTION**" AND "**DETECTOR LOOP REPLACEMENT**" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS **SHALL NOT BE PAID.** WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"



NOTES:

THE FOLLOWING PLAN SHEETS REPRESENT THE EXISTING ELECTRICAL SYSTEMS WITHIN I-190. ALL PROPOSED ELECTRICAL TRAFFIC SYSTEM ITEMS TO BE REMOVED AND REPLACED PERTAIN ONLY TO DETECTOR LOOP REPLACEMENT WITHIN THE RESURFACING LIMITS.

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
88600600	302	FOOT	DETECTOR LOOP, REPLACEMENT

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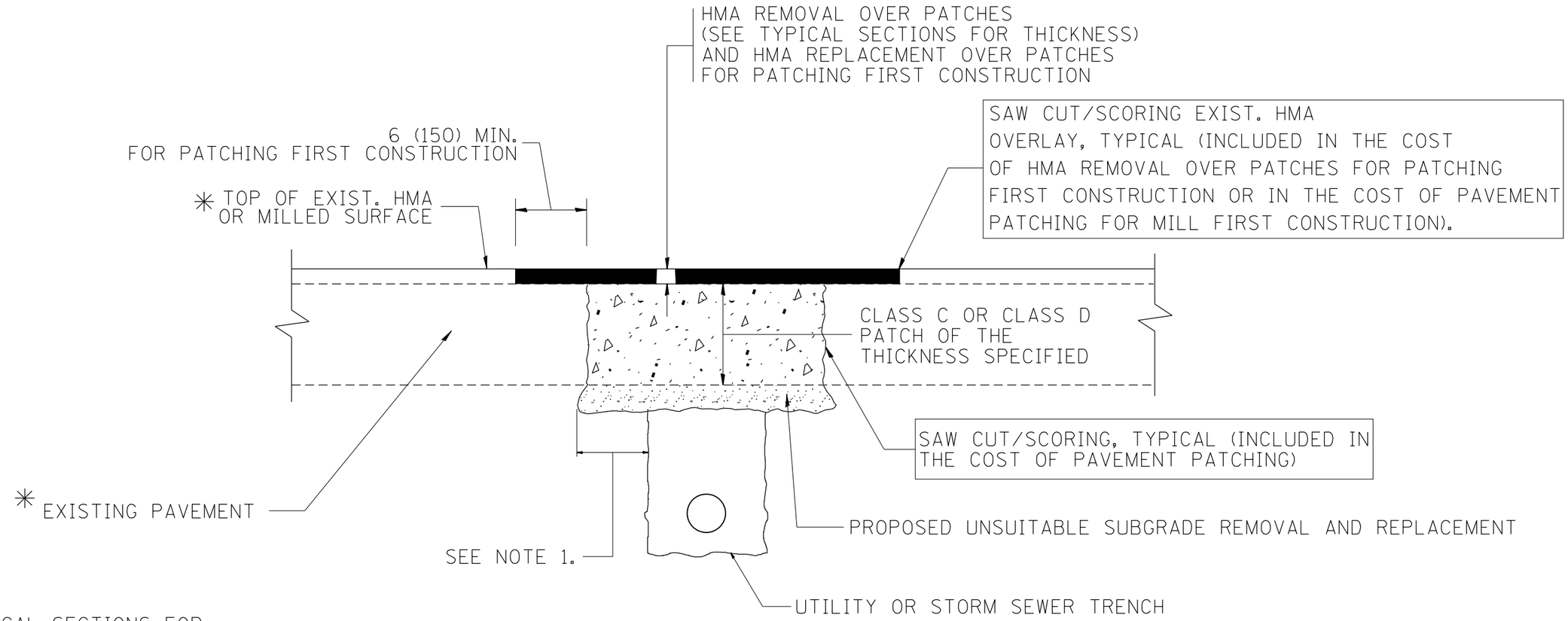
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – DETECTOR LOOP REPLACEMENT
I-190 (O'HARE AIRPORT TO I-90)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6 & 0102.5) RS-2	COOK	85	60
		CONTRACT NO. 60T33		
	ILLINOIS FED. AID PROJECT			



✳ SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

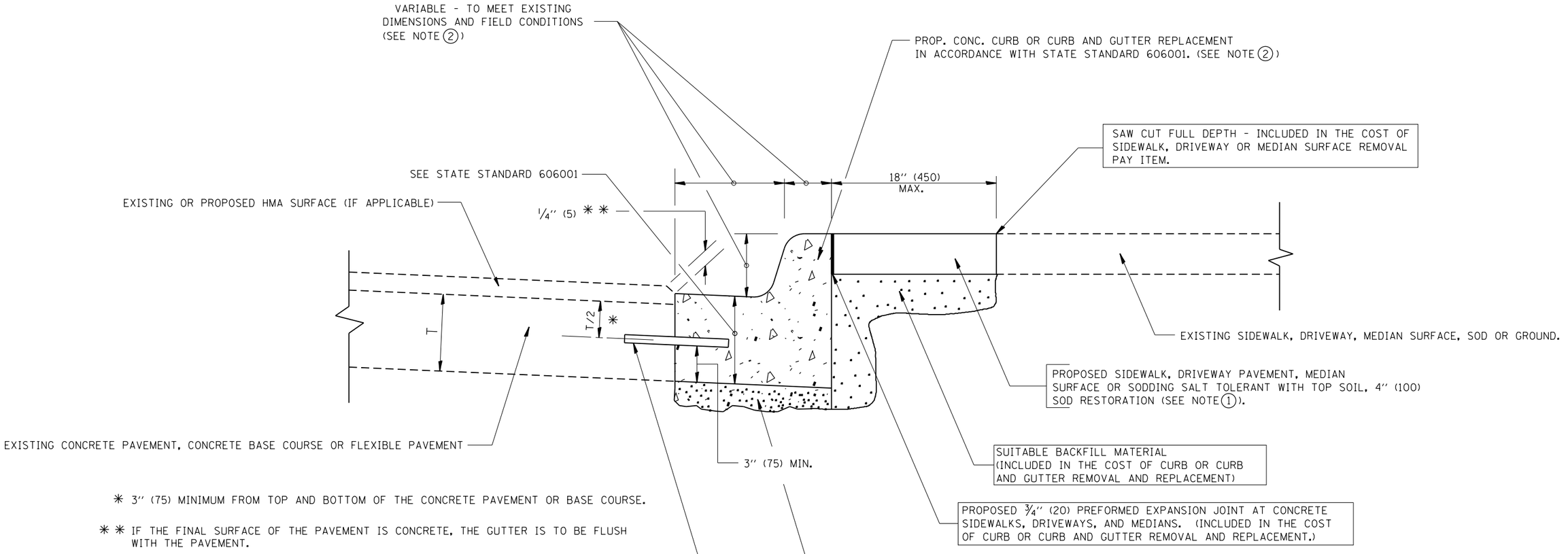
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07
	PLOT DATE = 10/18/2012	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	61
	BD400-04 (BD-22)	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

* * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

(2) FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

(3) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

(4) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

(5) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(6) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

(7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

(8) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

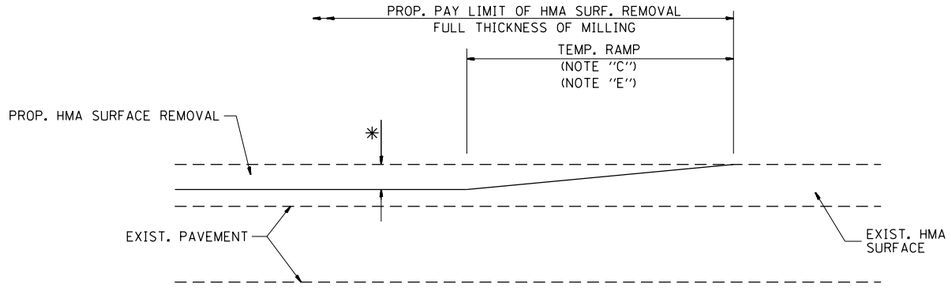
BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

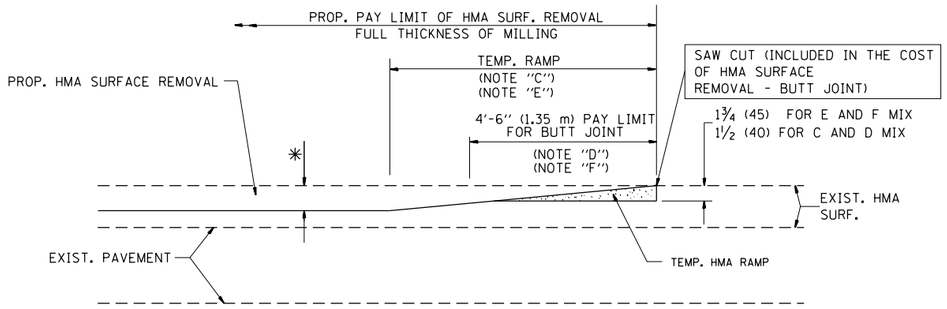
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED - A. ABBAS 03-21-97			190	(0101.6&0102.5)RS-2	COOK	85	62
	PLOT DATE = 10/18/2012	CHECKED -	REVISED - M. GOMEZ 01-22-01			BD600-06 (BD-24)		CONTRACT NO. 60T33		
		DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

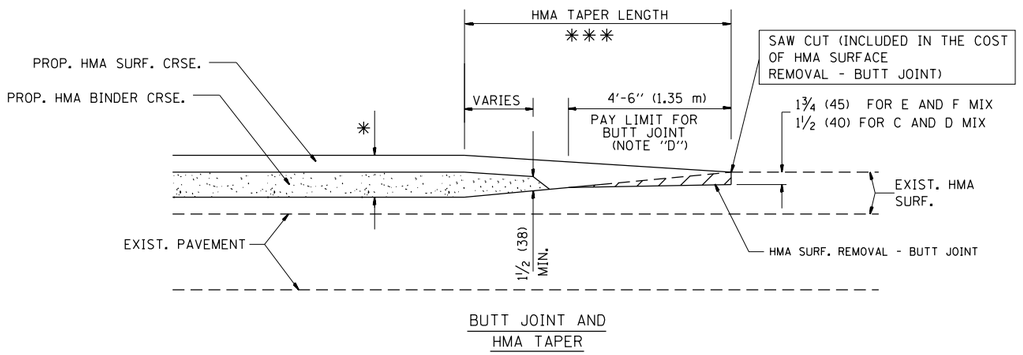


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

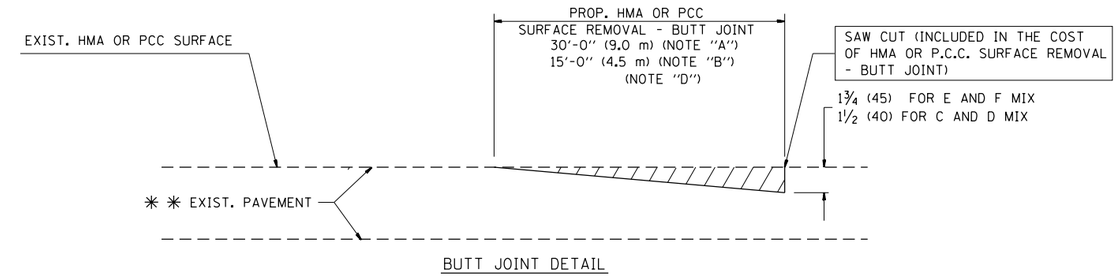
OPTION 2

TYPICAL TEMPORARY RAMP

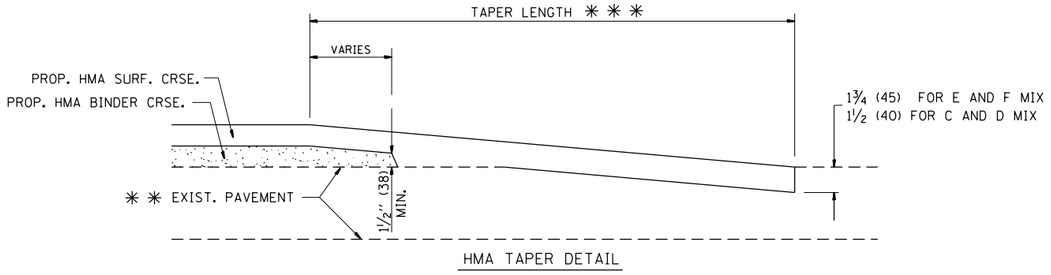


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

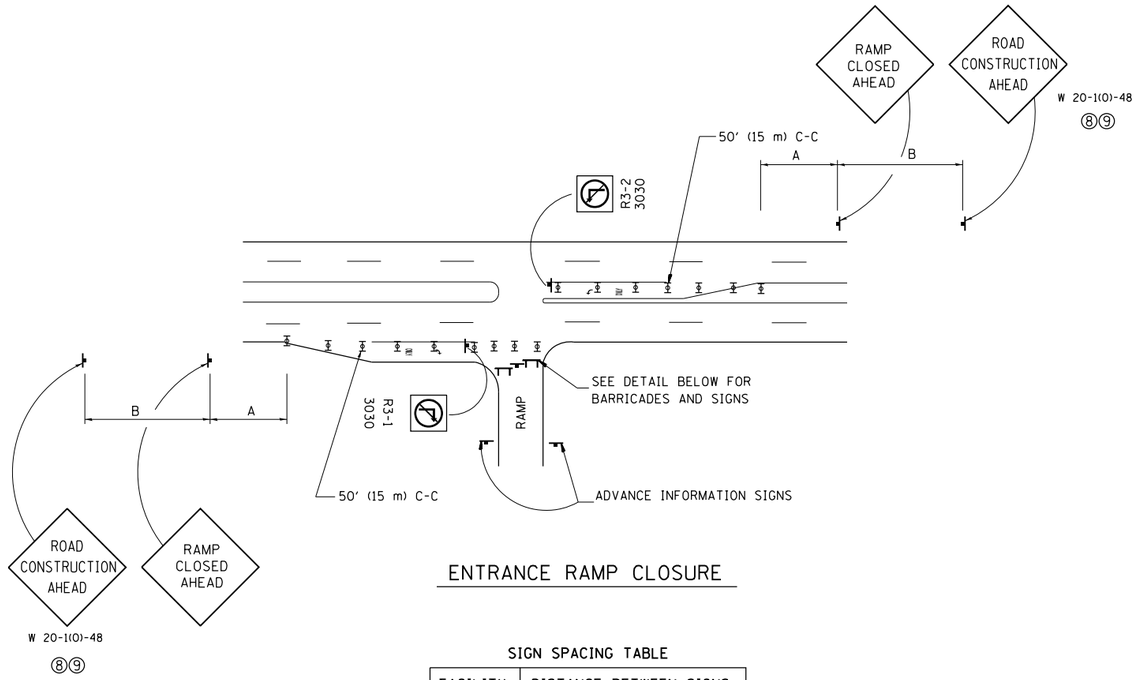
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 10/18/2012	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	63
	BD400-05 BD32	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

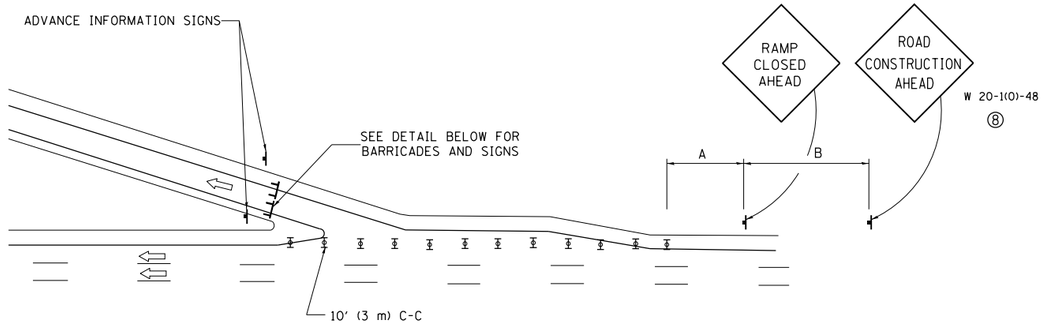


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS A	DISTANCE BETWEEN SIGNS B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

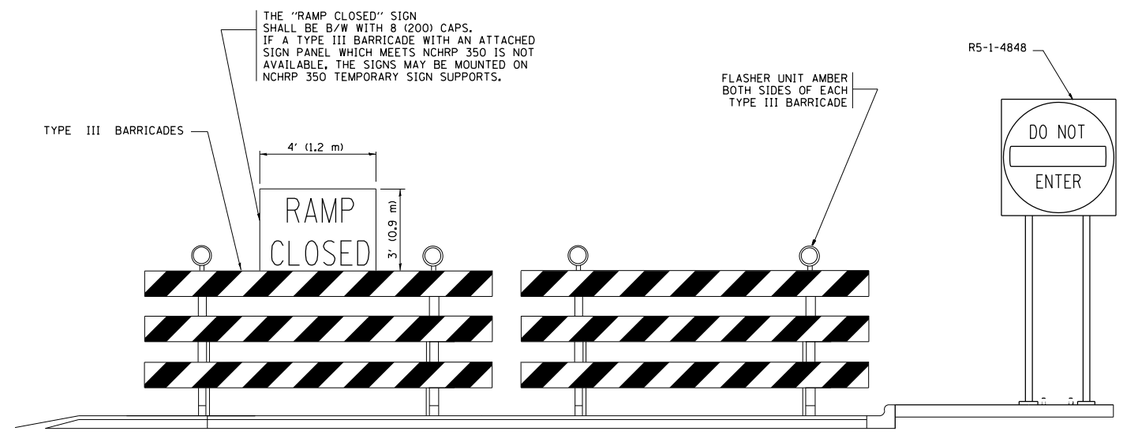


EXIT RAMP CLOSURE

SYMBOLS

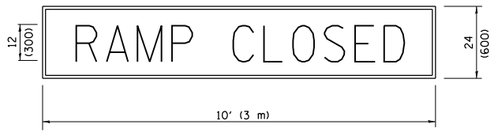
TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT

TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN

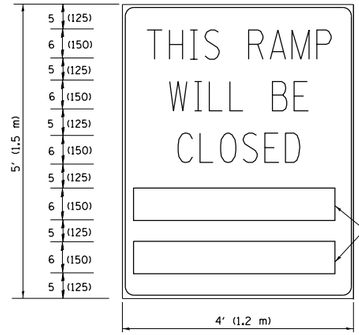


BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND

½ (12) BORDER

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY- FOUR 24 HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR 24 HOURS IN LENGTH.
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

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		DRAWN -	REVISED - JAF 02-06
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - SPB 01-07
	PLOT DATE = 10/18/2012	DATE - 02-83	REVISED - SPB 12-09

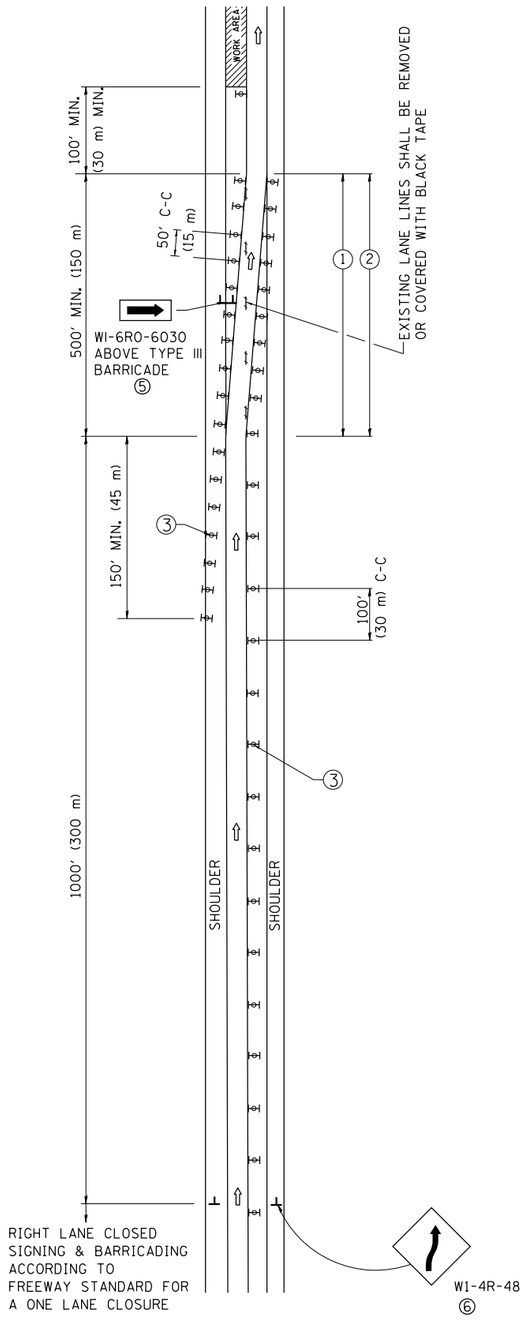
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS

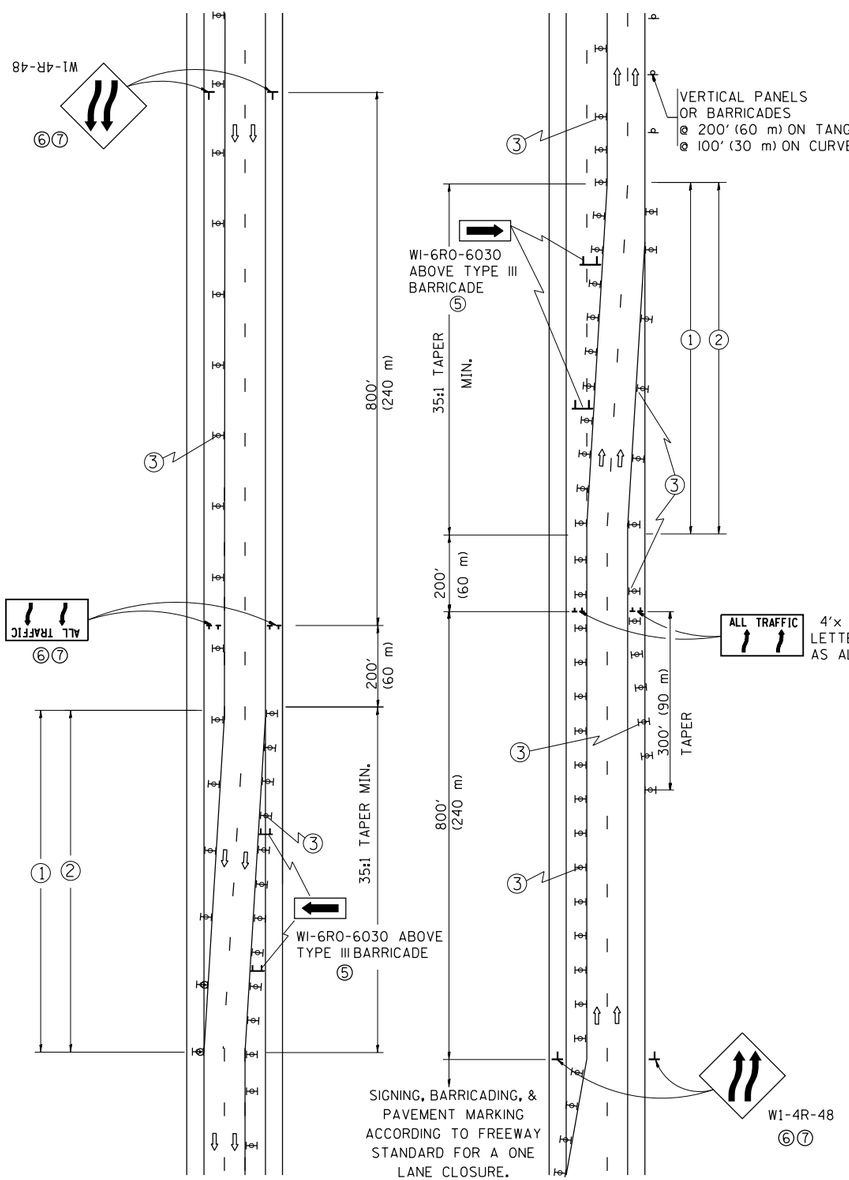
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	64
	TC-08	**CONTRACT NO. 60T33**		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.

⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

DIRECTION OF TRAFFIC

WORK AREA

SIGN ON PORTABLE OR PERMANENT SUPPORT

TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

W24-1-48 ⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

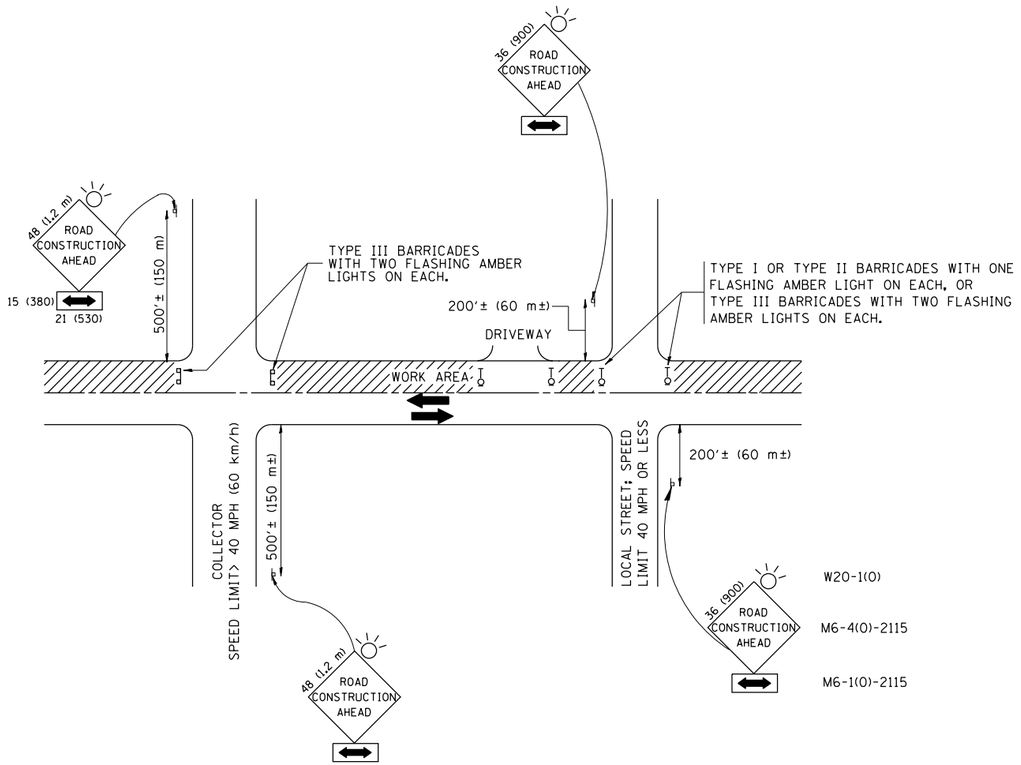
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED - DWS	REVISED - JAF 01-03
		DRAWN -	REVISED - JAF 02-06
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - SPB 01-07
	PLOT DATE = 10/18/2012	DATE - 02-87	REVISED - SPB 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	65
	TC-09	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

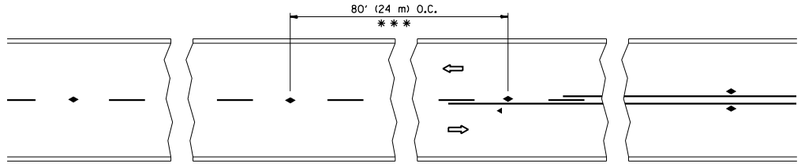
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 10/18/2012	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

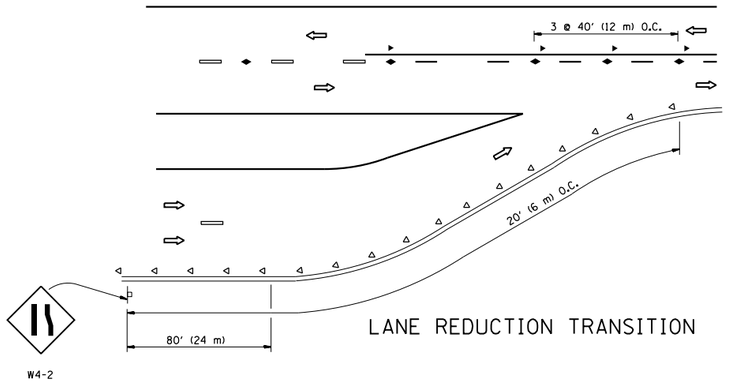
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	66
	TC-10	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

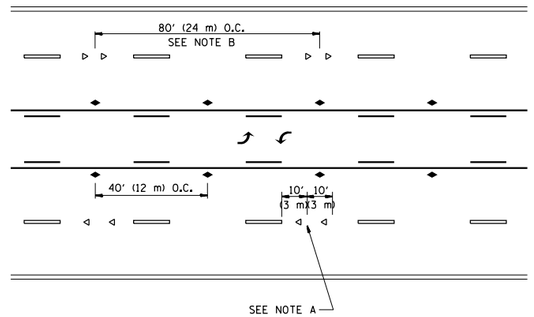


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

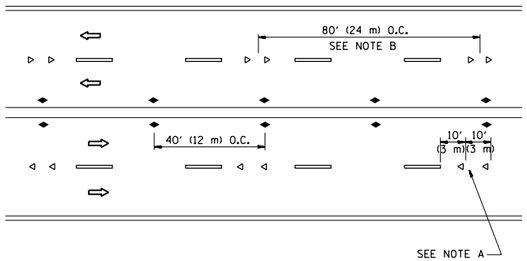
TWO-LANE/TWO-WAY



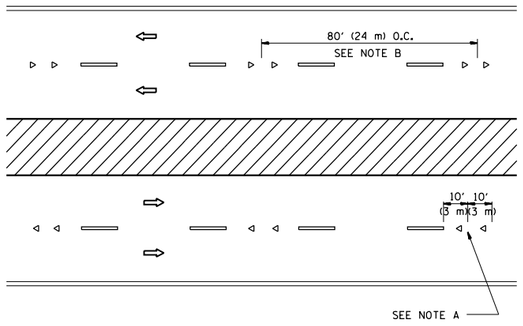
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

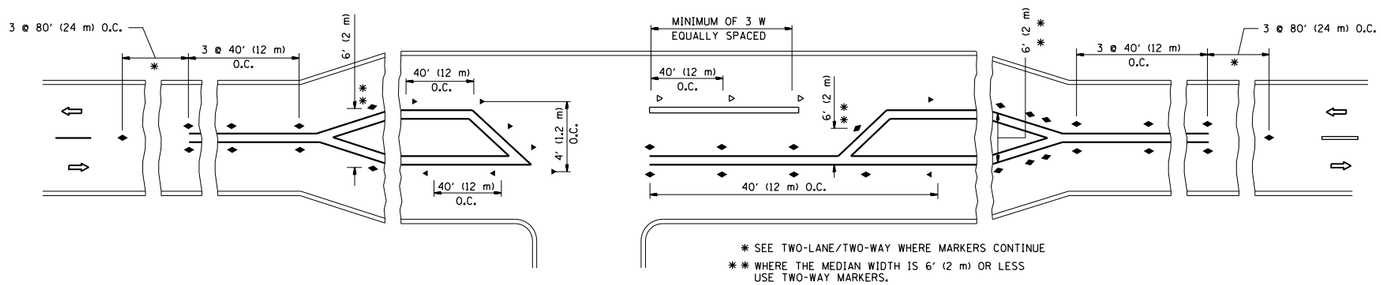
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



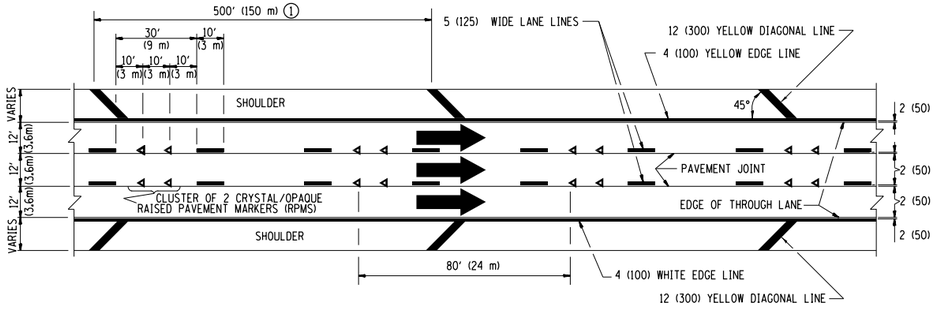
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

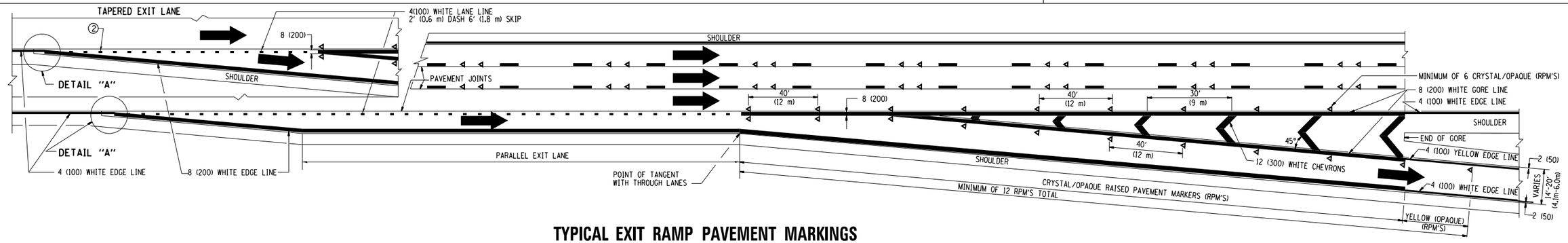
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED - T. RAMMACHER 03-12-99				190	(0101.6&0102.5)RS-2	COOK	85	67
	PLOT DATE = 10/18/2012	CHECKED -	REVISED - T. RAMMACHER 01-06-00					TC-11		CONTRACT NO. 60T33	
		DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



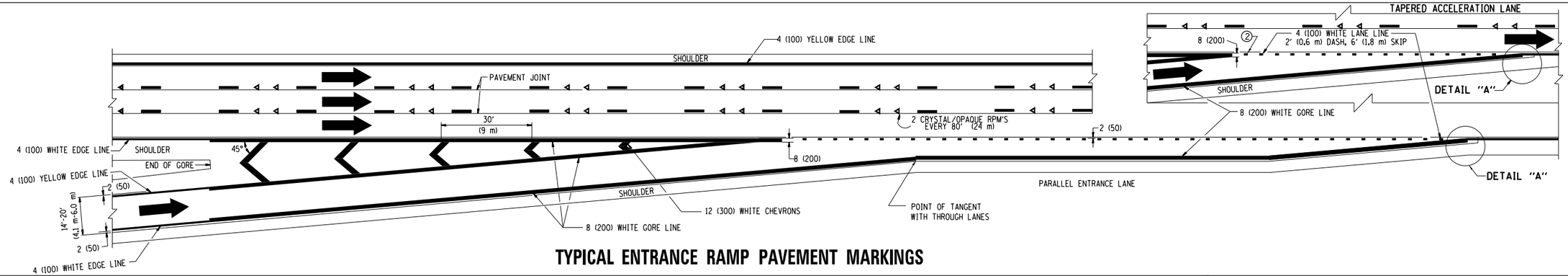
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

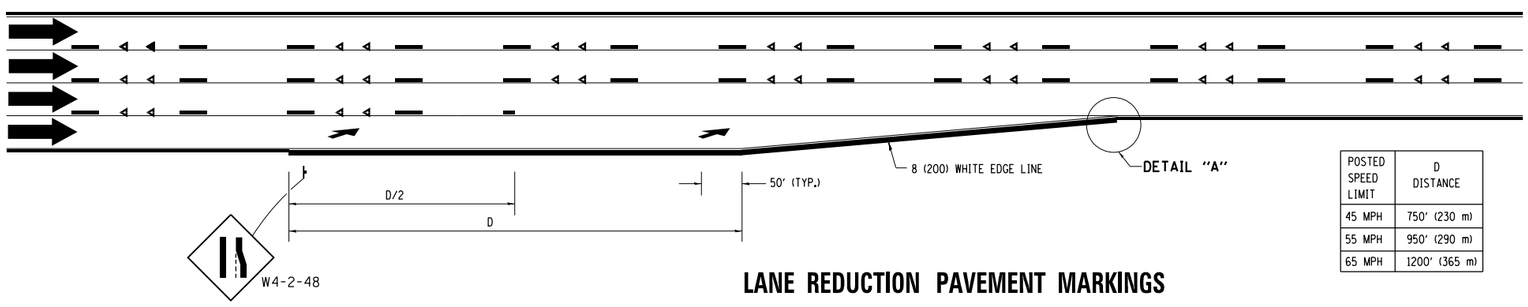
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

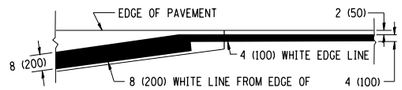


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

LANE REDUCTION PAVEMENT MARKINGS



DETAIL "A"

NOTES:

① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.

② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

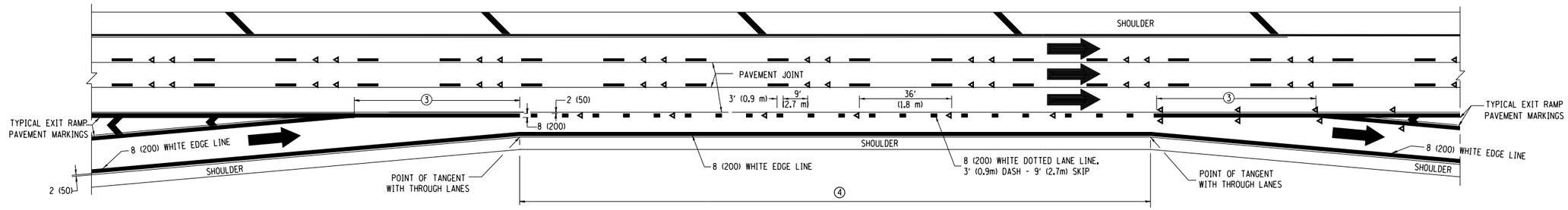
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 10/18/2012	DATE - 01-90	REVISED - S.P.B. 01-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

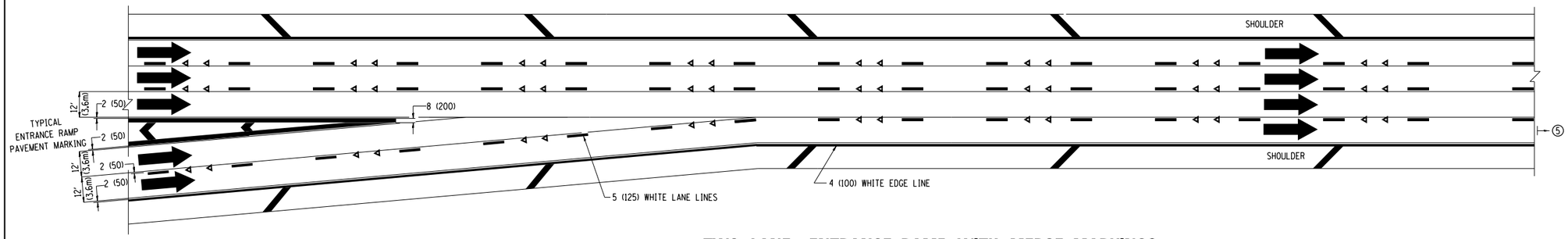
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

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

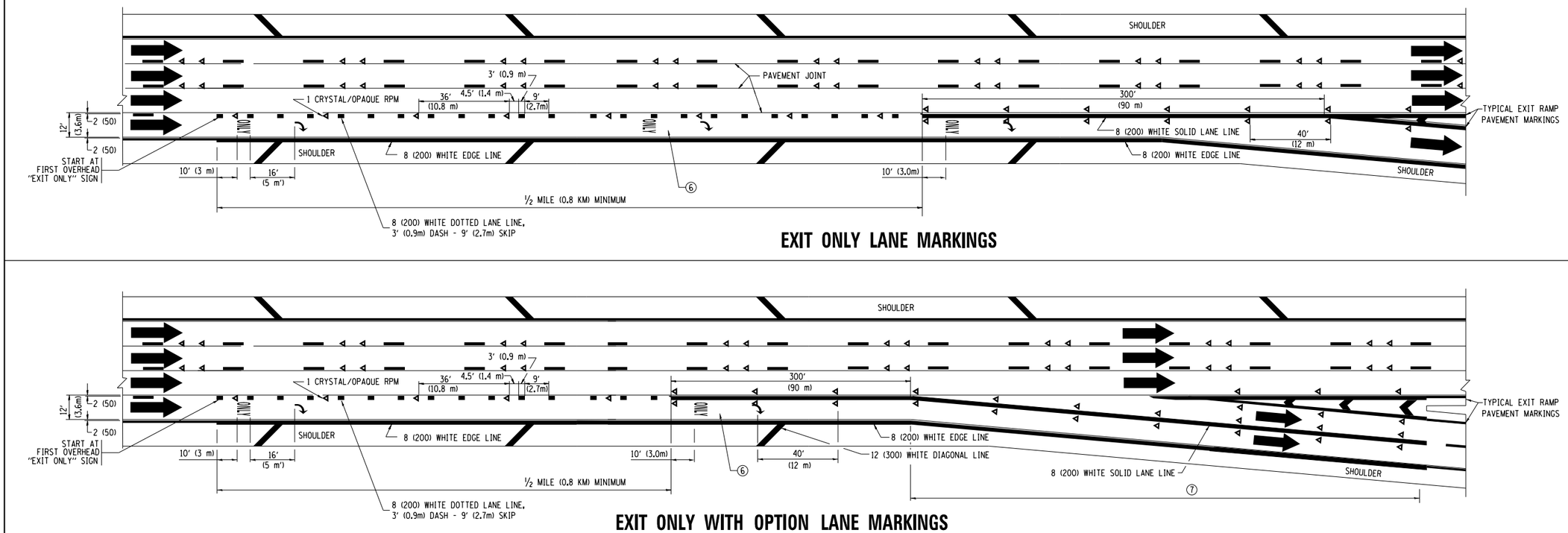
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	68
	TC-12	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS

EXIT ONLY WITH OPTION LANE MARKINGS

NOTES

③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).

④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.

⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.

⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.

⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

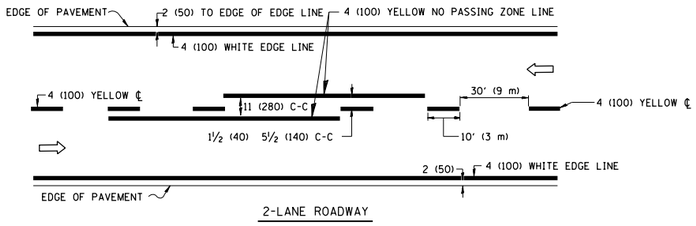
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 10/18/2012	DATE - 01-90	REVISED - S.P.B. 01-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

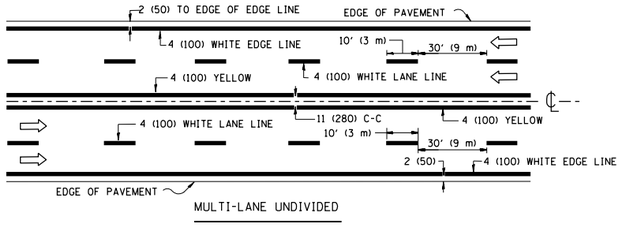
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

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

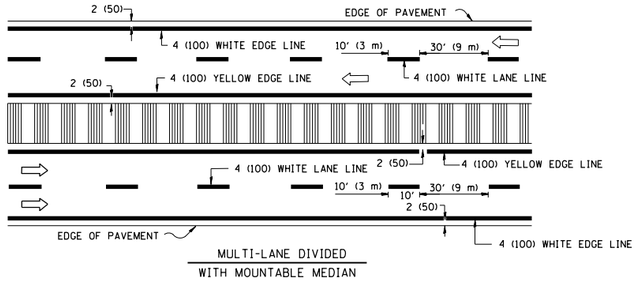
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	69
	TC-12	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



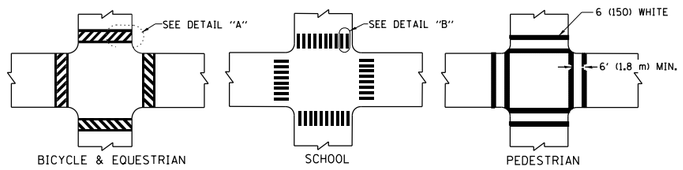
MULTI-LANE UNDIVIDED



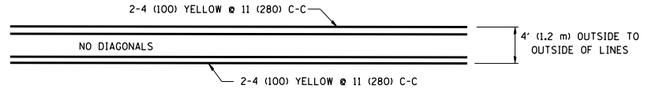
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

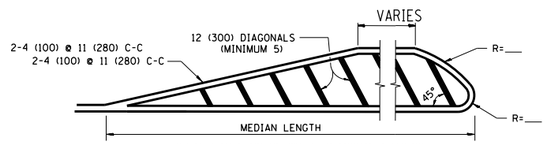
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



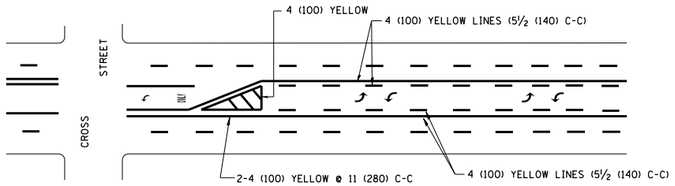
4' (1.2 m) WIDE MEDIANS ONLY



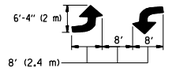
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

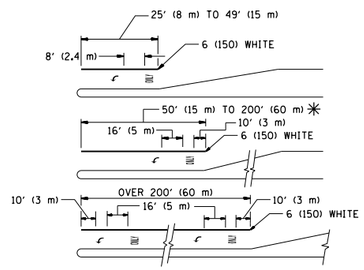


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

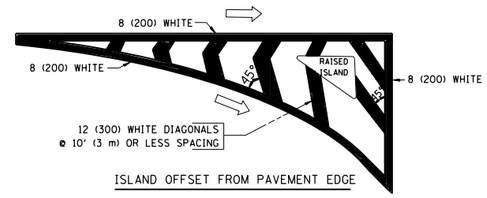


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

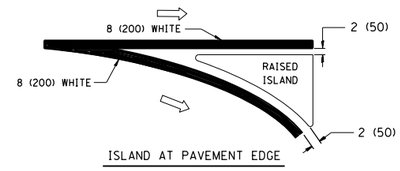
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

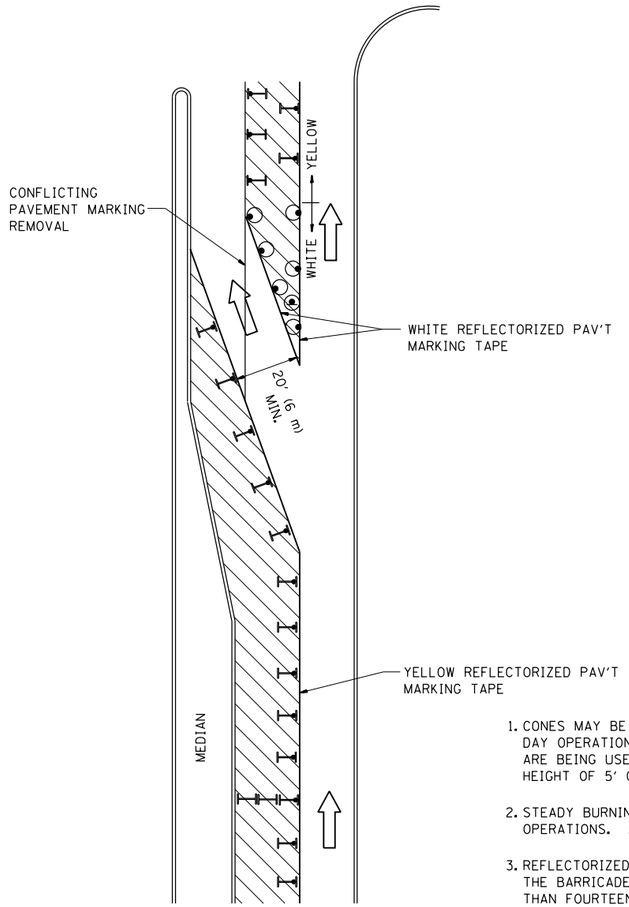
TYPICAL ISLAND MARKING

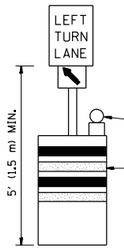
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ⌀ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ⌀ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⌀ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⌀ 6 (150) 12 (300) ⌀ 45° 12 (300) ⌀ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⌀ 4 (100) WITH 12 (300) DIAGONALS ⌀ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⌀ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "R" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) ⌀ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DISTRICT ONE** **TYPICAL PAVEMENT MARKINGS**		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -C. JUCIUS 09-09-09				190	(0101.6&0102.5)RS-2	COOK	85	70
	PLOT DATE = 10/18/2012	CHECKED -	REVISED -					TC-13		CONTRACT NO. 60T33	
		DATE - 03-19-90	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	





R 3-I100L 24 x 24 (600 x 600)

M6-2L 21 x 15 (530 x 380)

OPTIONAL FLASHING LIGHT

STANDARD 701901
SEE NOTE 8

GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

WORK AREA

LANE OPEN TO TRAFFIC

TYPE I OR II BARRICADE WITH STEADY BURN LIGHT

DRUM WITH STEADY BURN LIGHT

DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL

TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

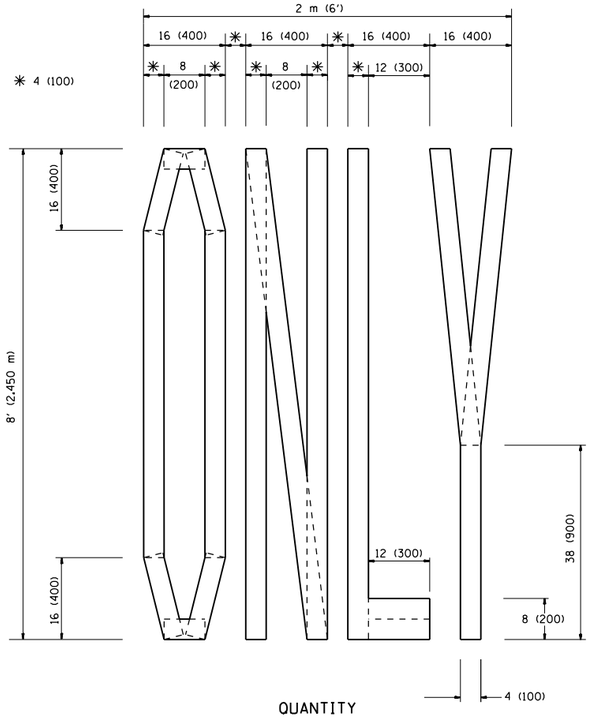
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	PLOT SCALE = 100.0000 ' / in.	REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT DATE = 10/18/2012	REVISED -T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

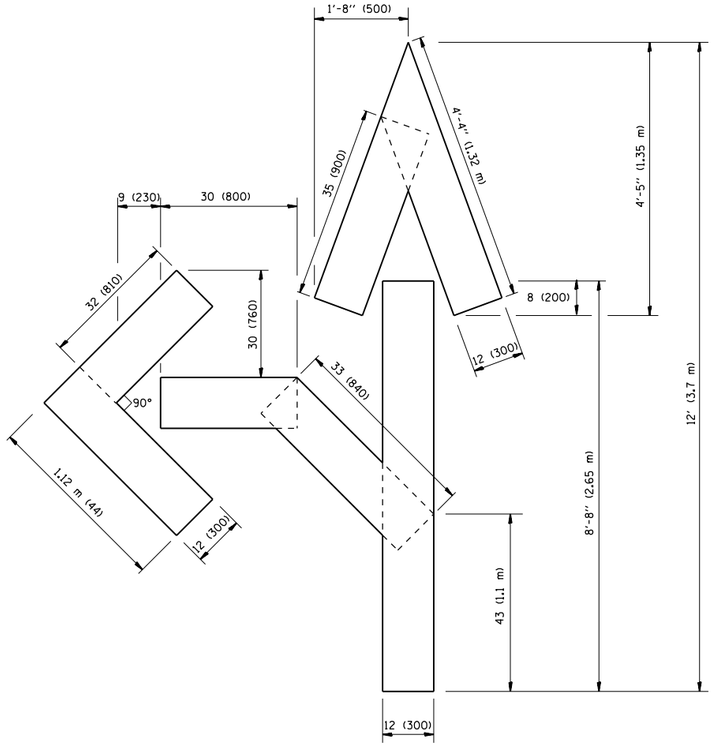
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

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

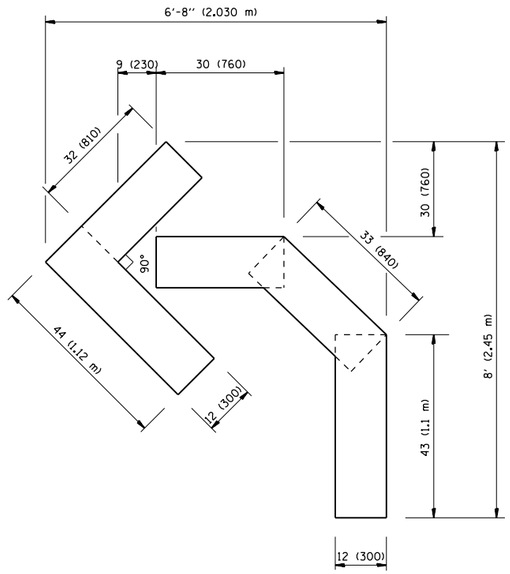
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	71
	TC-14	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 10/18/2012	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

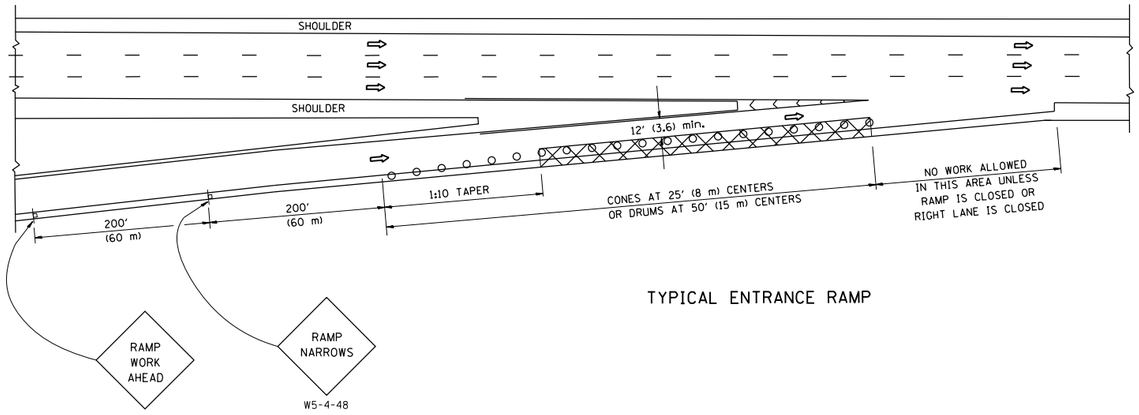
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

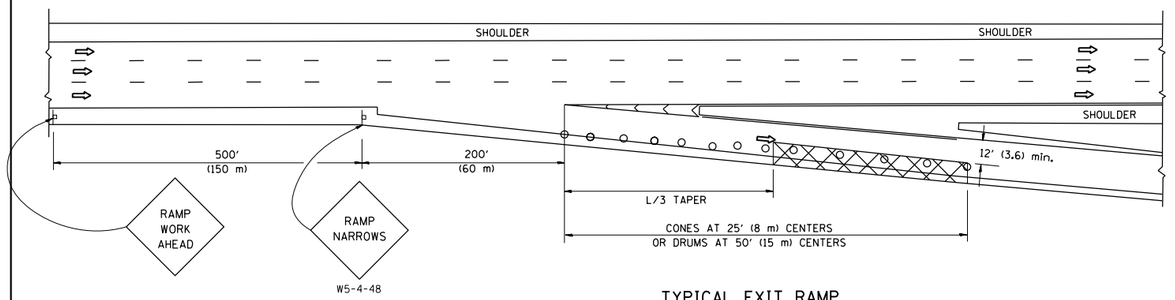
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	72
	TC-16	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

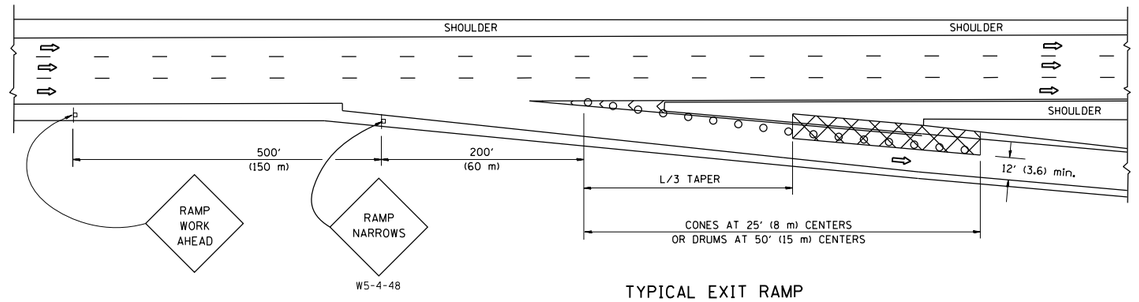
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

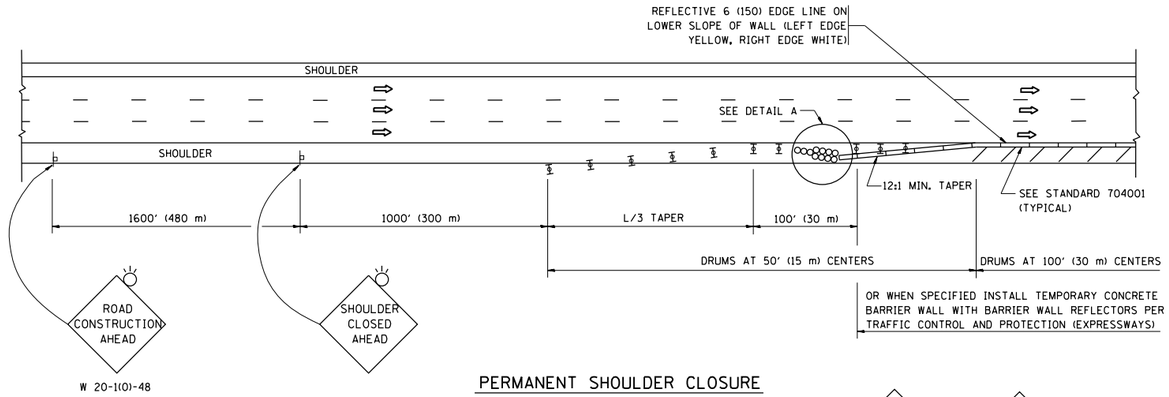


TYPICAL EXIT RAMP

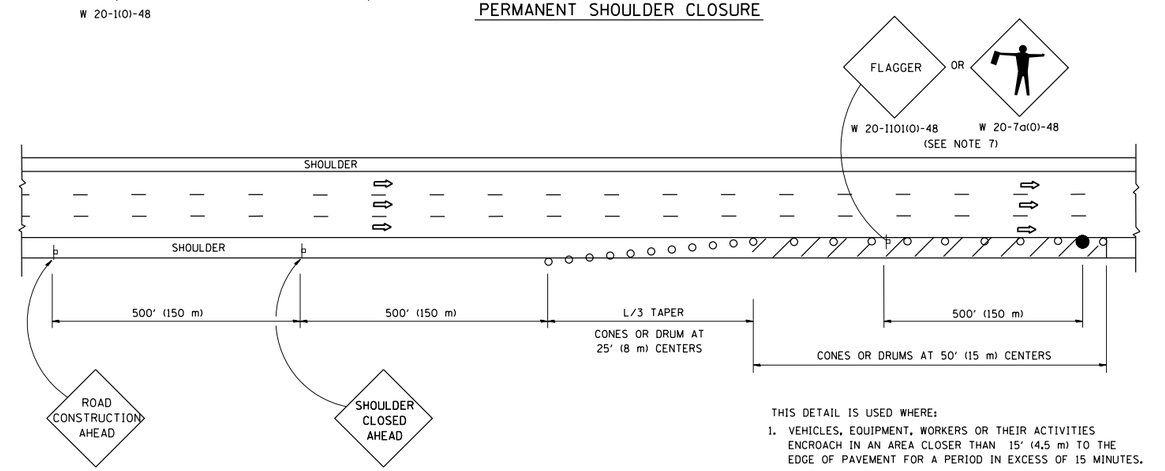


TYPICAL EXIT RAMP

SHOULDER CLOSURE DETAILS



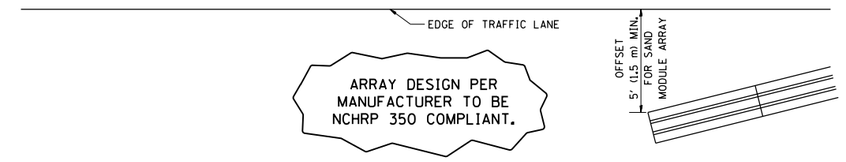
PERMANENT SHOULDER CLOSURE



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



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

SYMBOLS

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

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

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

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED - 04-03
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 10/18/2012	DATE - 11-96	REVISED - S.P.B. 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

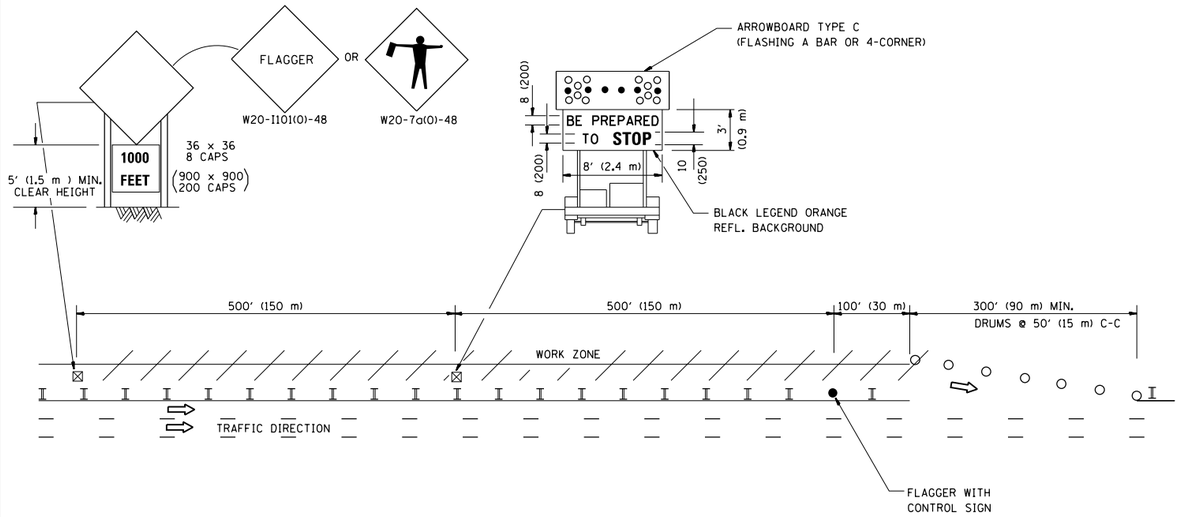
TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

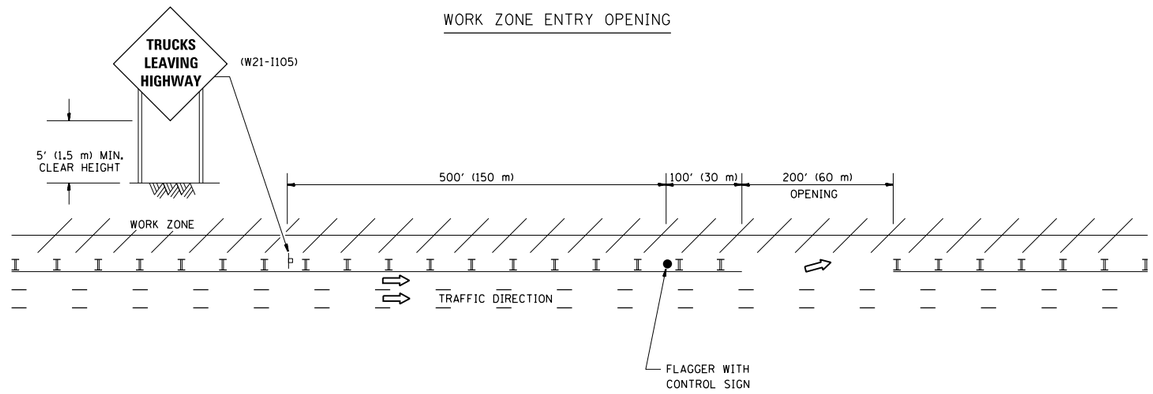
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	73
	TC-17	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

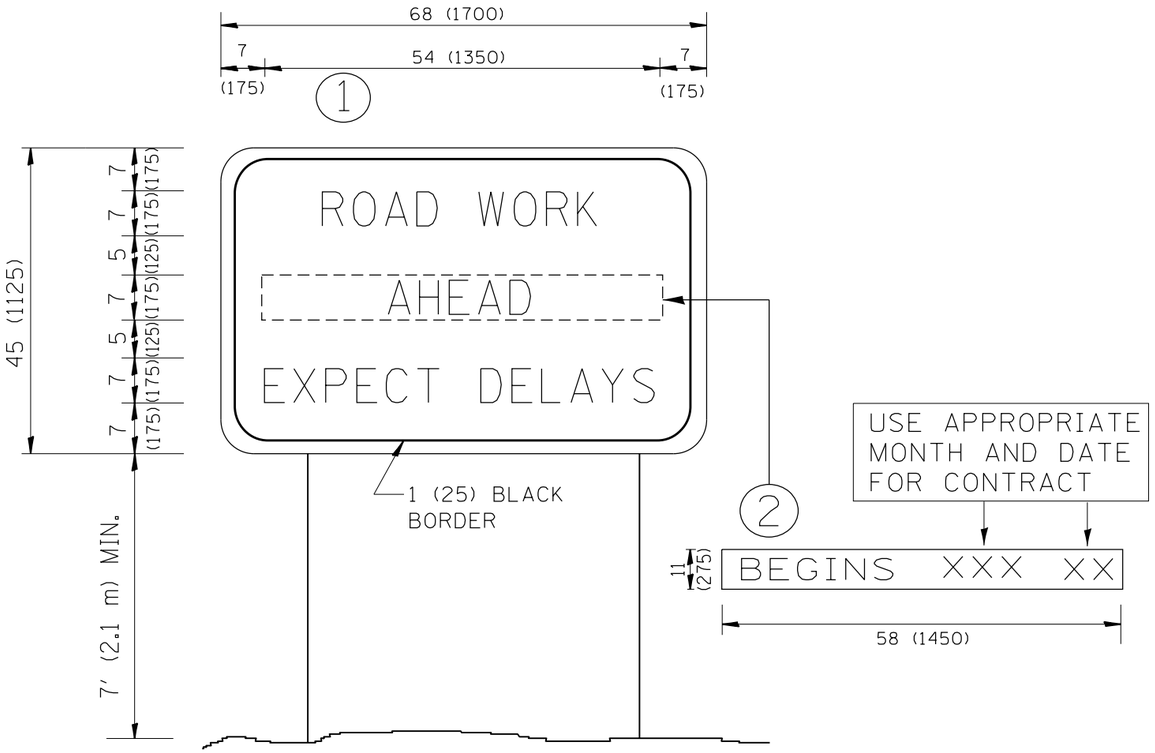
FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED - J.A.F. 04-03
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 10/18/2012	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	74
	TC-18	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE ''ROAD CONSTRUCTION AHEAD'' SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR ''TEMPORARY INFORMATION SIGNING'' FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 10/18/2012	DATE -	REVISED - C. JUCIUS 01-31-07

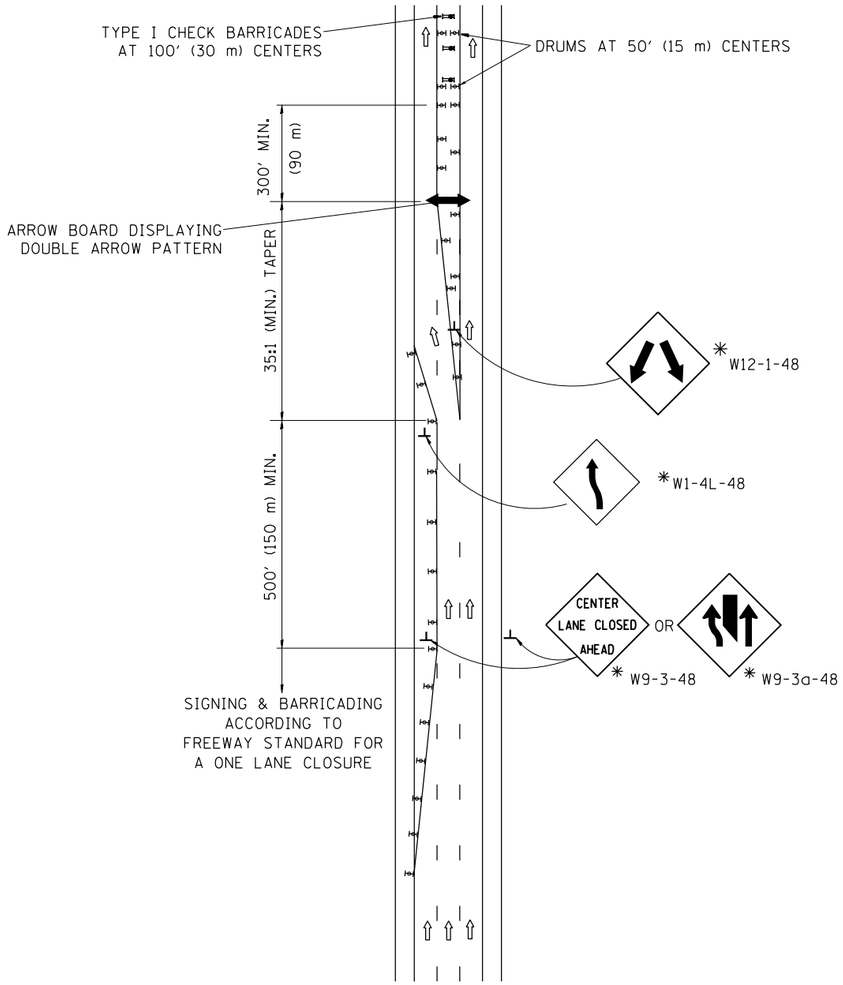
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

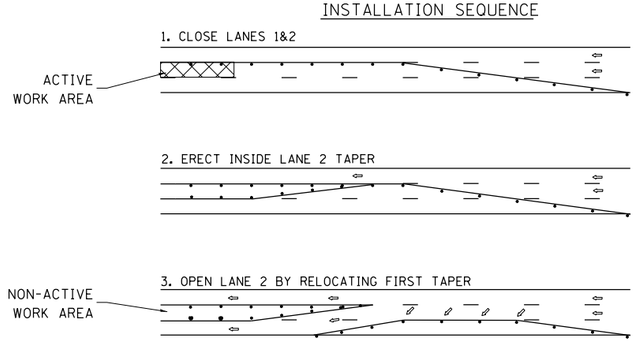
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	75
	TC-22	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CENTER LANE CLOSURE



INSTALLATION SEQUENCE



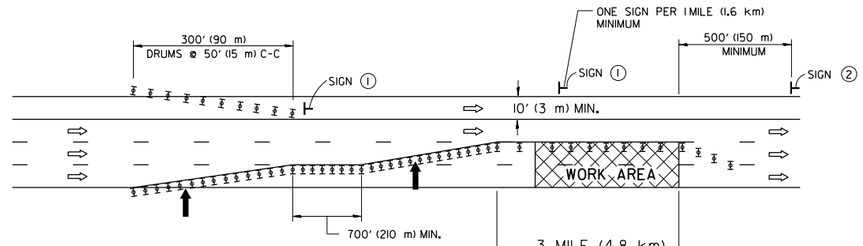
4. REMOVE CLOSURE IN REVERSE ORDER

NOTES

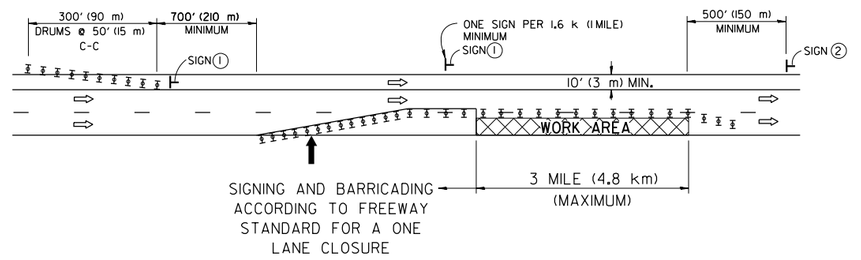
1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

SHOULDER LANE

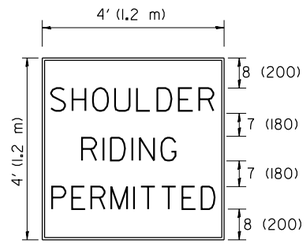
NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.

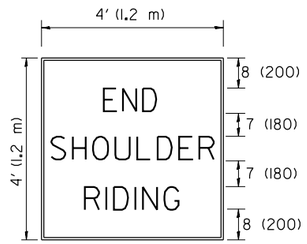


SIGNING AND BARRICADING ACCORDING TO FREEWAY STANDARD FOR A TWO LANE CLOSURE



SIGNING AND BARRICADING ACCORDING TO FREEWAY STANDARD FOR A ONE LANE CLOSURE





6 (150) SERIES "C" LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
1 (25) BORDER

SYMBOLS

- DIRECTION OF TRAFFIC
- ARROWBOARD
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT *
- TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME = c:\pw_work\pwidot\rodriguezma\d0299718\DistStd.dgn	USER NAME = rodriguezma	DESIGNED -	REVISED - J.A.F. 04-03
		DRAWN -	REVISED - S.P.B. 01-07
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09
	PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
CENTER LANE CLOSURE SHOULDER LANE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	76
	TC-25	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

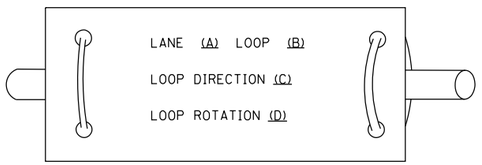
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

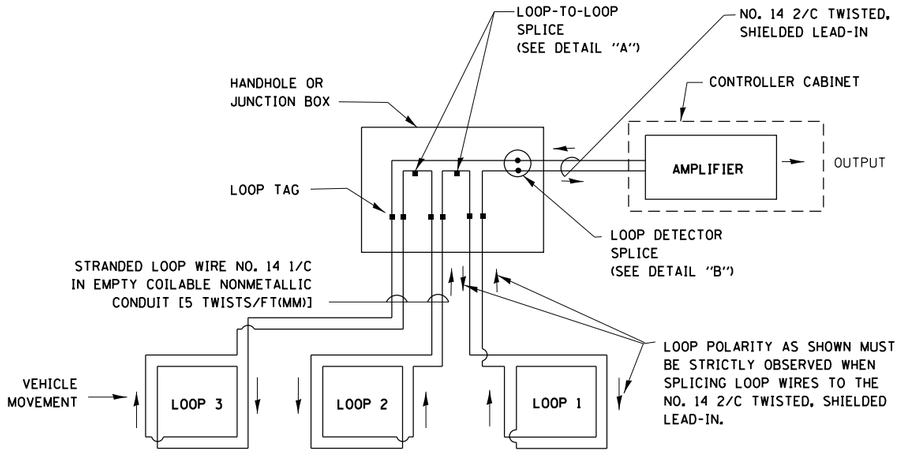


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

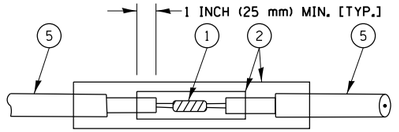
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

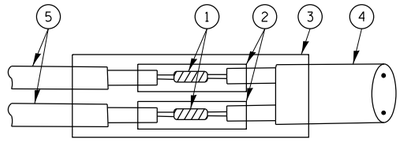


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

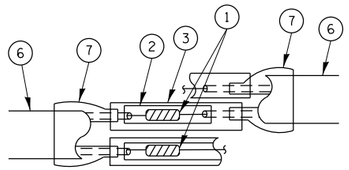


DETAIL "A"
LOOP-TO-LOOP SPLICE



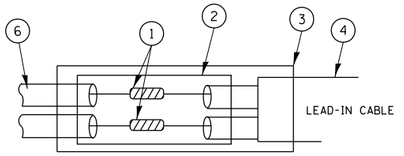
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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	PLOT DATE = 10/18/2012	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

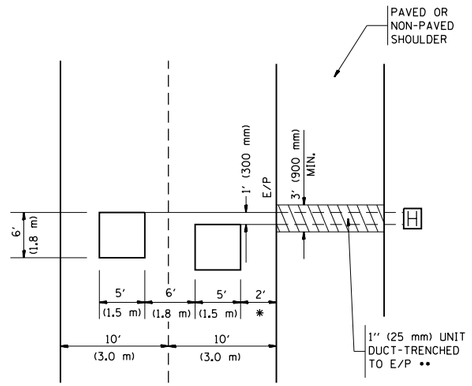
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	77
	TS-05	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

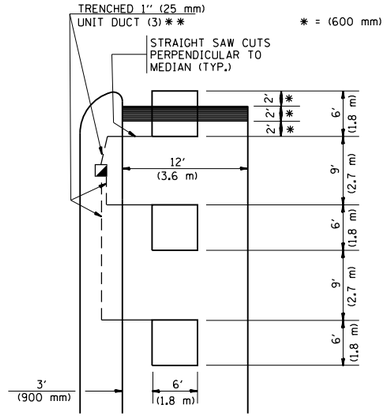


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

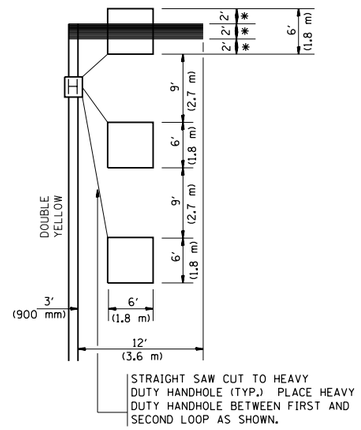


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

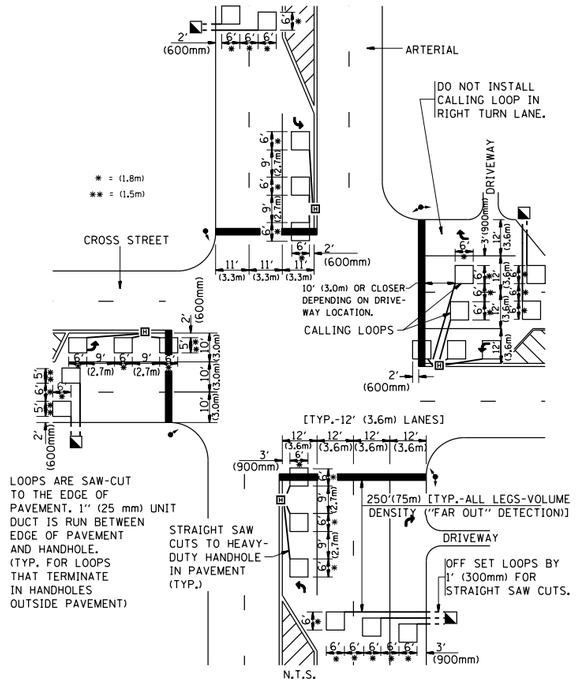
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)



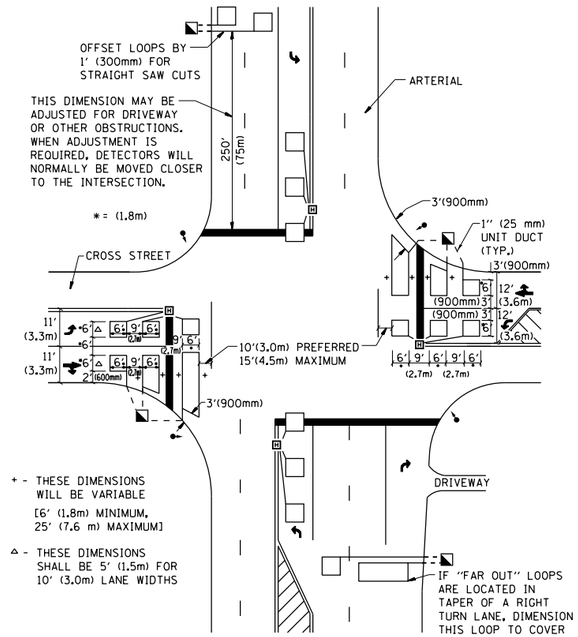
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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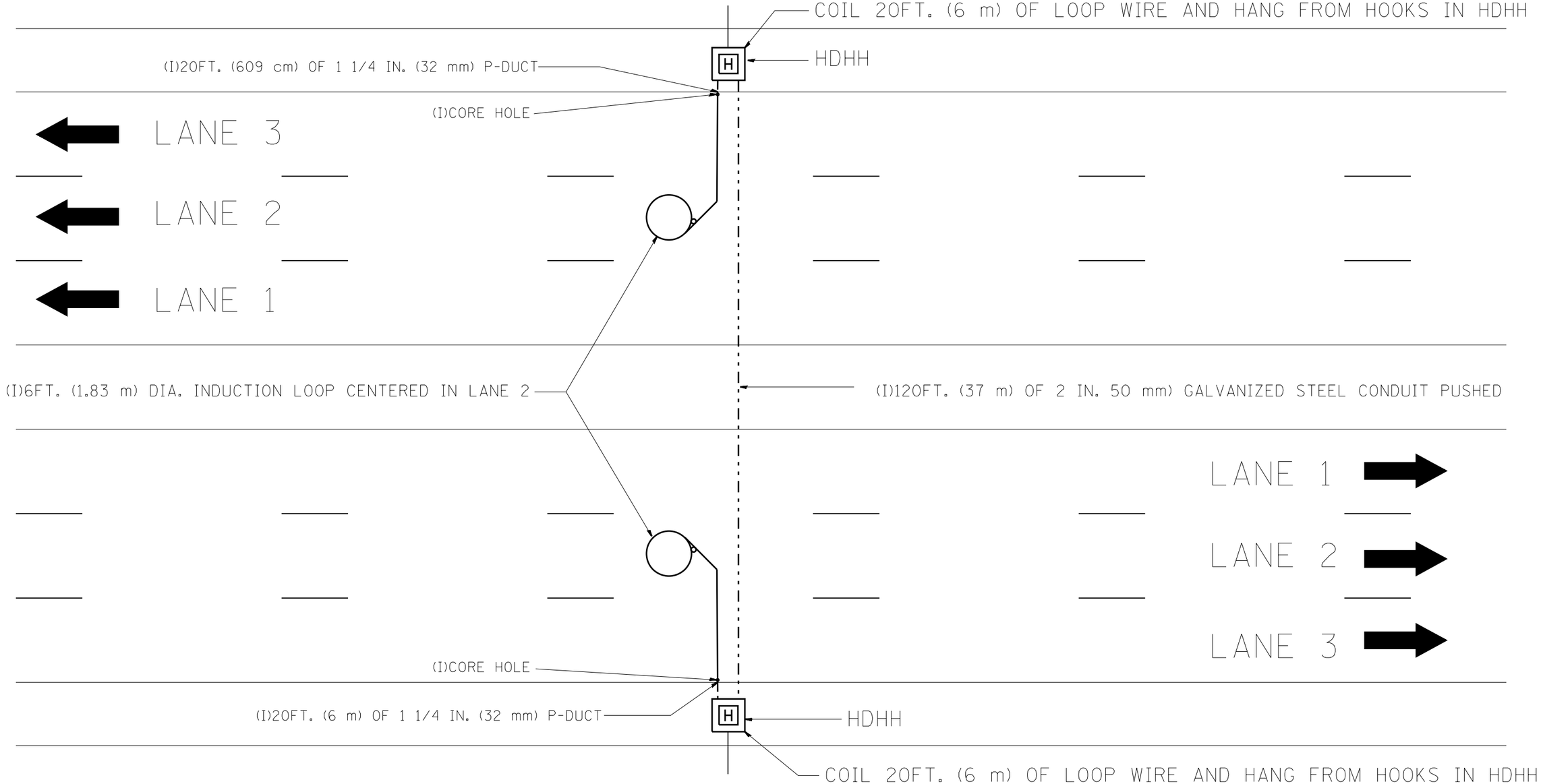
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	77A
	TS-07	CONTRACT NO. 60T33		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURE FOR PAYMENT.

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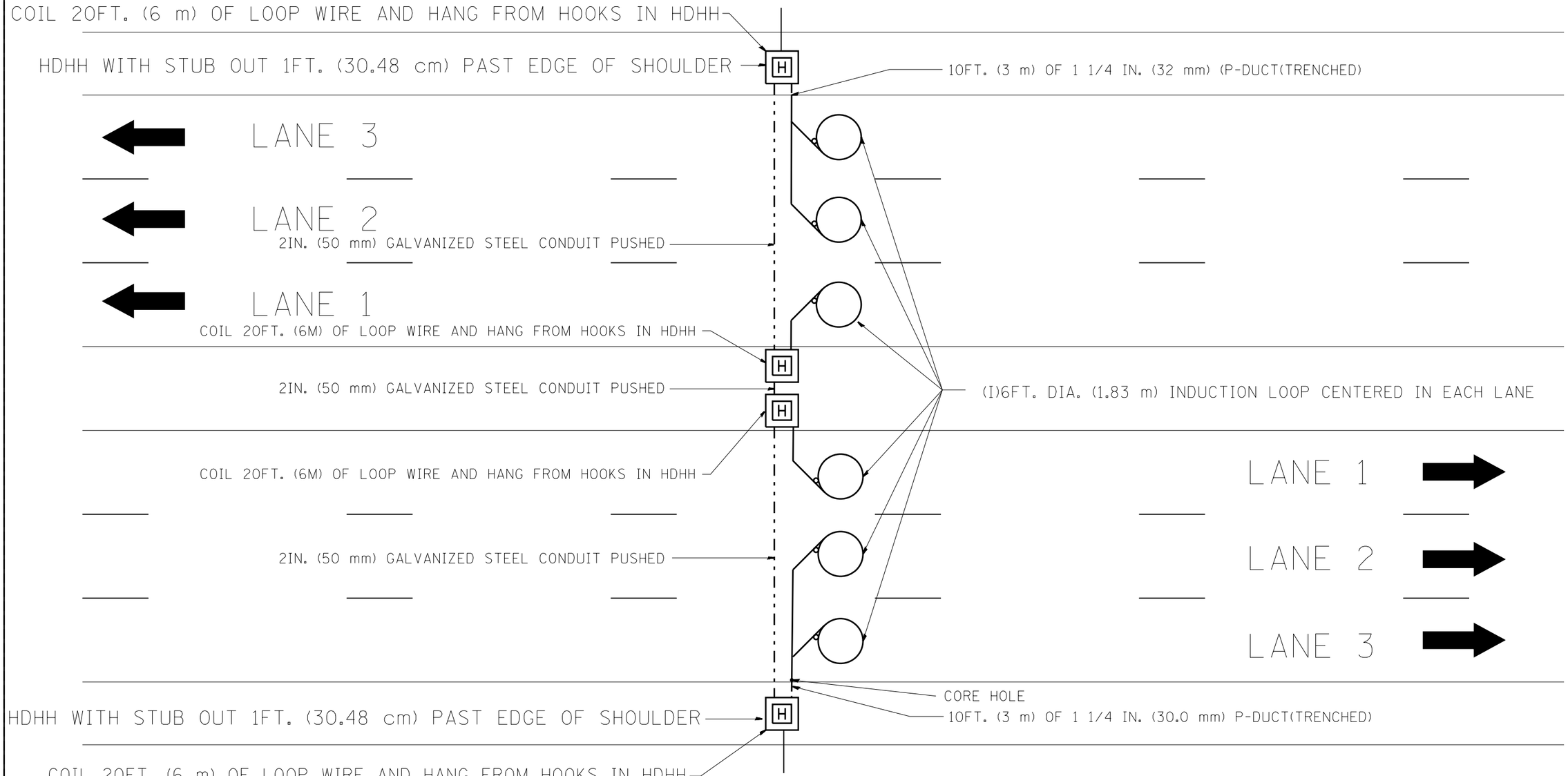
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

ONE LANE COUNT STATION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	78
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#31)



NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURED FOR PAYMENT.

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	PLOT DATE = 5/17/2012	DATE - 12-02-2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

3 LANE COUNT STATION
(DIFFERENT DIRECTIONS)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	79
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#32A)

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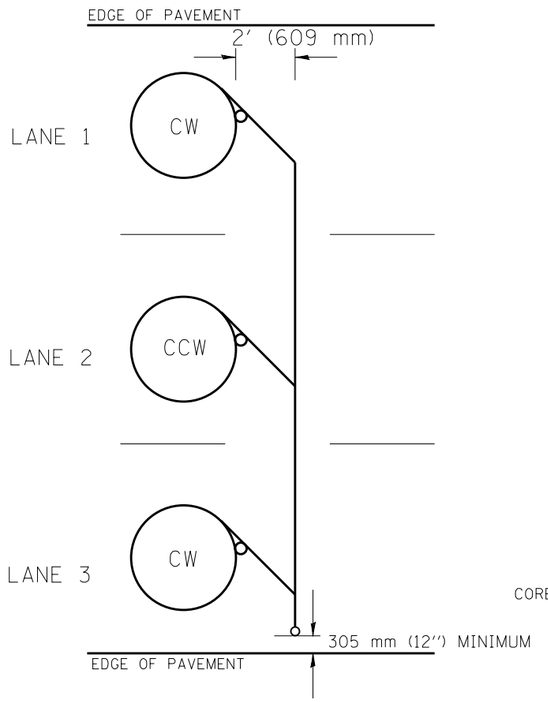
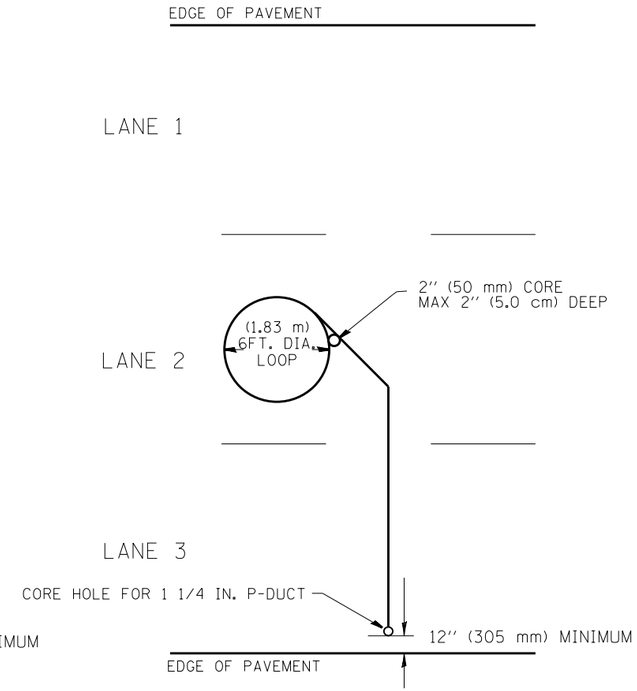


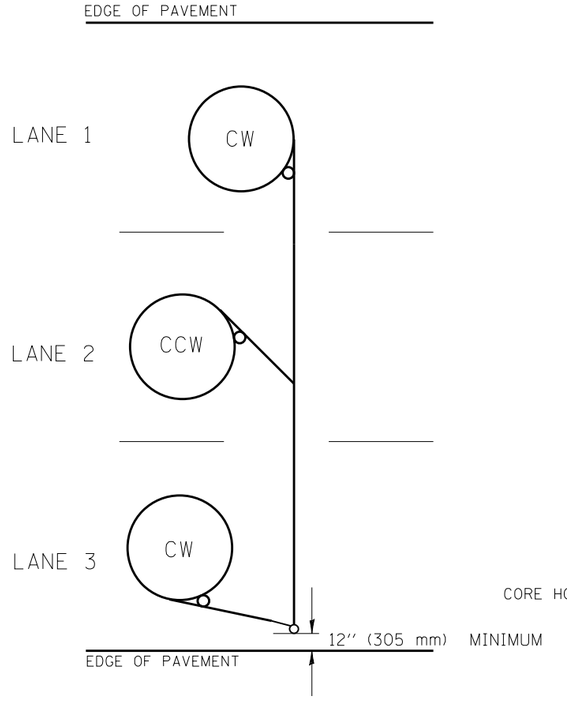
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL

LAYOUT FOR MULTIPLE LANE ROADWAY



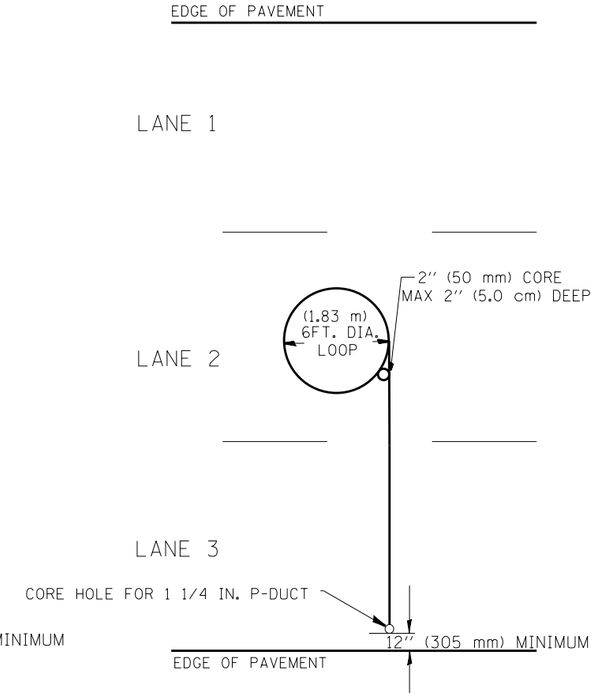
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP

LAYOUT FOR LANE 2



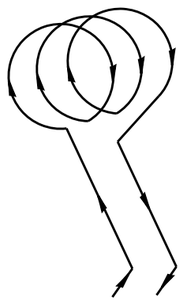
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL

LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP

LAYOUT FOR LANE 2



WIRING DETAILS

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

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	PLOT DATE = 5/18/2012	DATE - 6-22-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

EXISTING ROUND LOOP INSTALLATION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	80
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#1)

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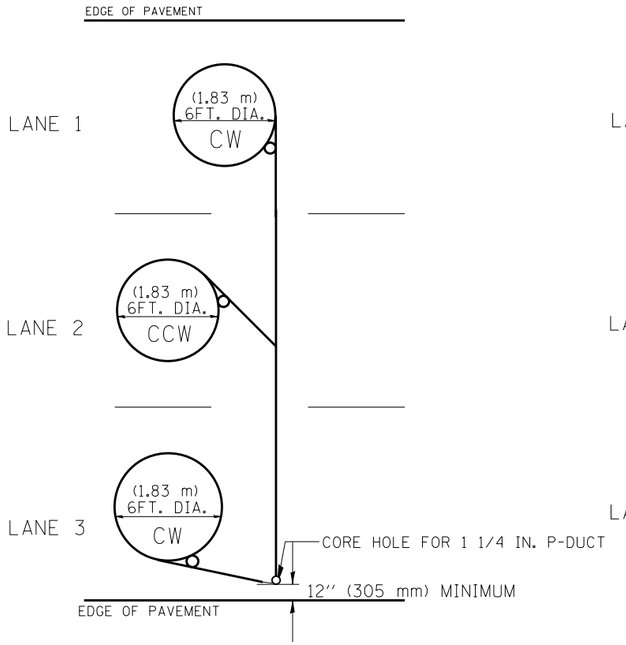
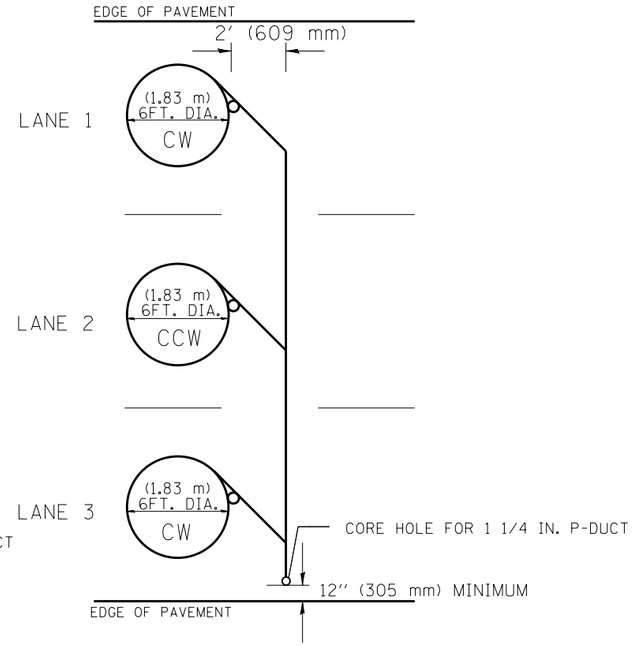


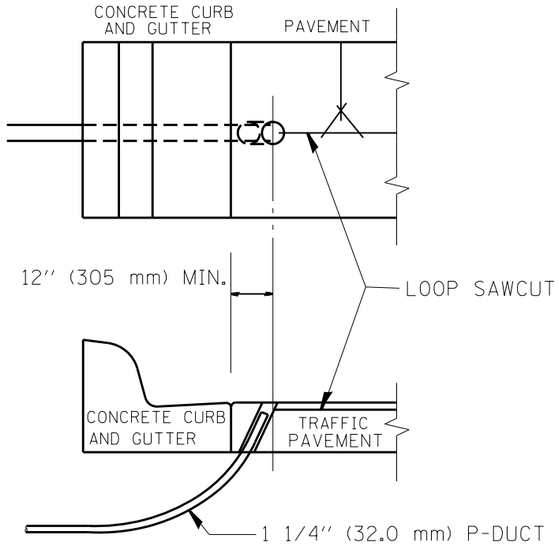
TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL

LAYOUT FOR MULTIPLE LANE ROADWAY



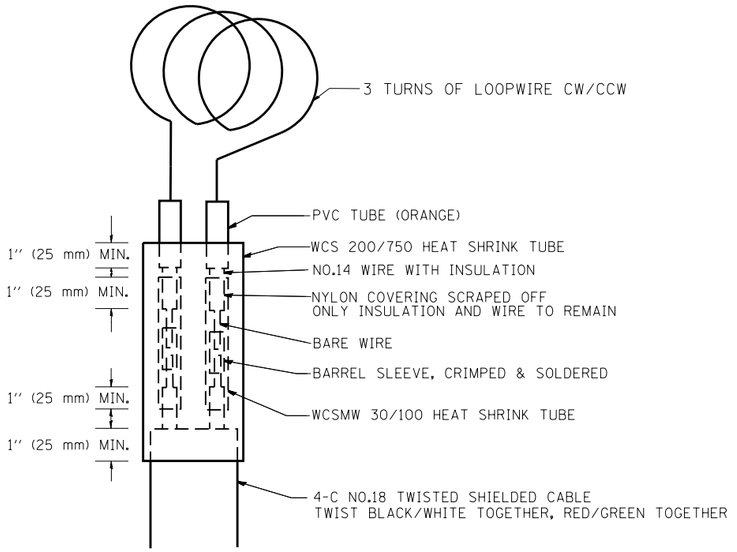
TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL

LAYOUT FOR MULTIPLE LANE ROADWAY



CURB AND GUTTER LOOP LEAD-IN

TRANSITION DETAIL



LOOP SPLICING REQUIREMENTS

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

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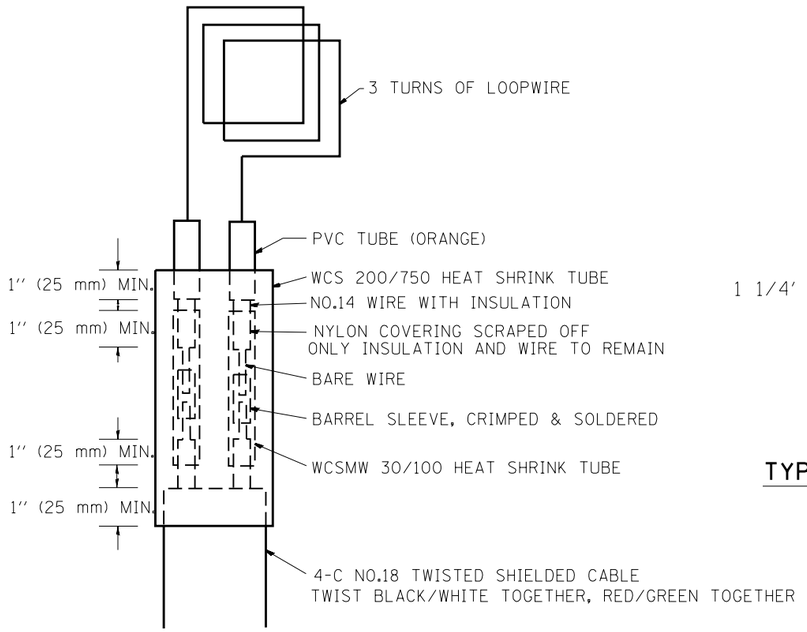
	PLOT DATE = 5/18/2012	DATE - 6-22-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

EXISTING ROUND INDUCTION LOOP TYPICALS

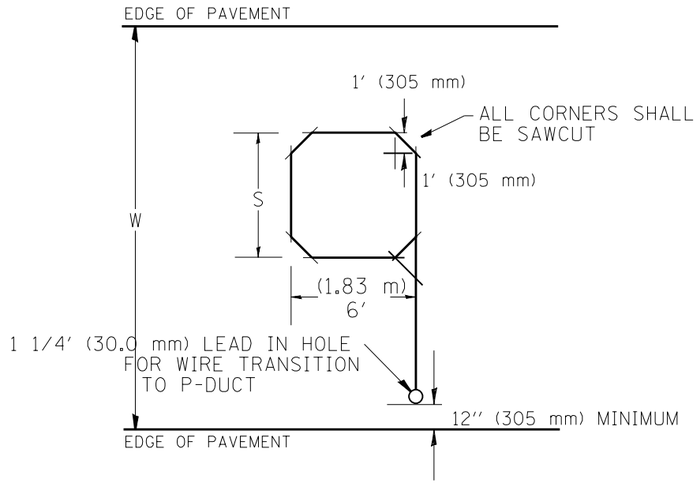
SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	81
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

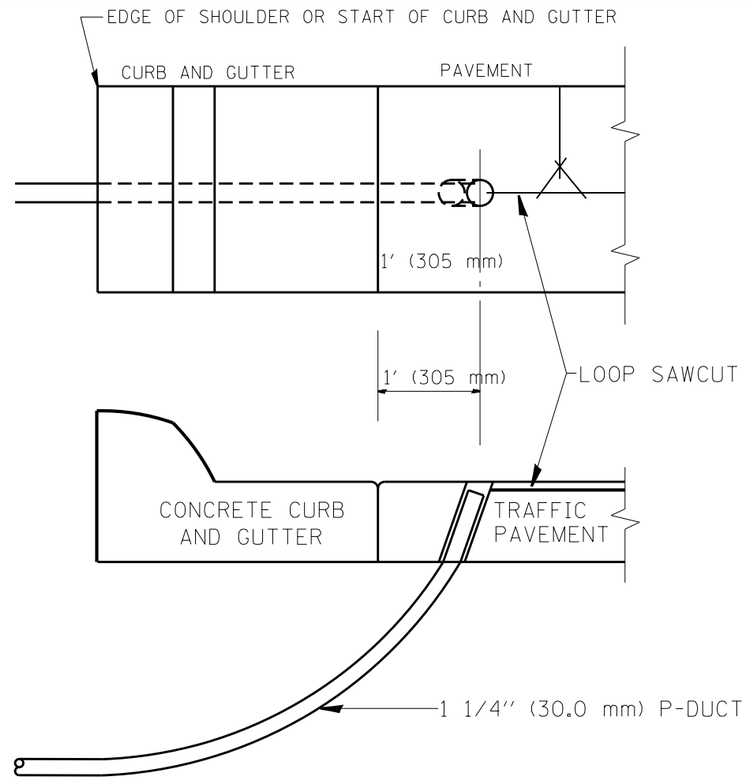


MINIMUM 1'' (25 mm) HEAT SHRINK TUBING OVERLAP
ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

LOOP SPLICING REQUIREMENTS



TYPICAL ''S'' FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMPS



CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL

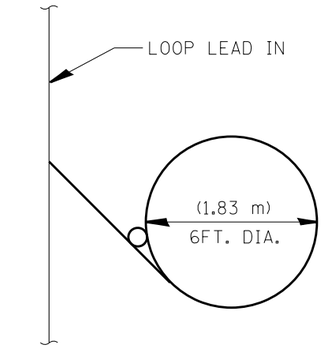
TABLE 1	
WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13. (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)

NOTES

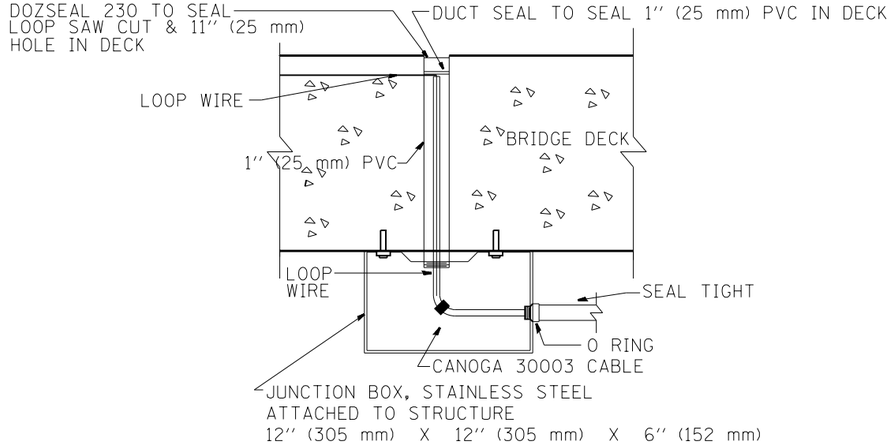
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

FILE NAME = c:\pw_work\pwidot\mezag\d0287541\TSCTYP.dgn	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	RECTANGULAR INDUCTION LOOP TYPICAL
	PLOT SCALE = 100.0000 '/ in.	DRAWN - G.M.	REVISED - 11/95		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 5/17/2012	CHECKED - R.L.	REVISED - 05/96		
		DATE - 6-22-94	REVISED - 10/96		

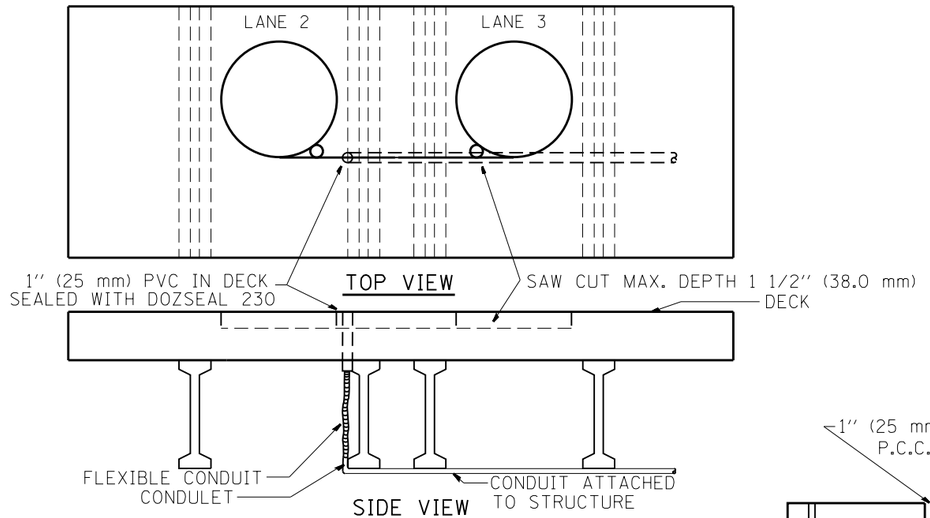
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	82
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



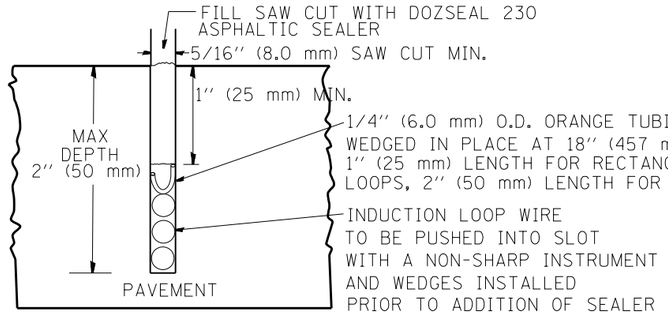
TYPICAL LOOP SAWCUT LAYOUT



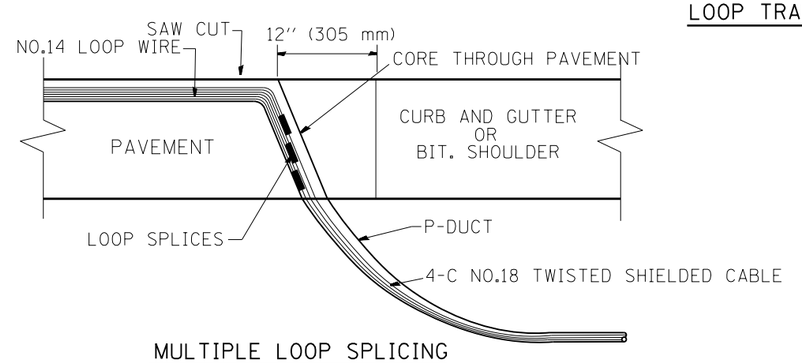
LOOP JUNCTION BOX UNDER BRIDGE DECK



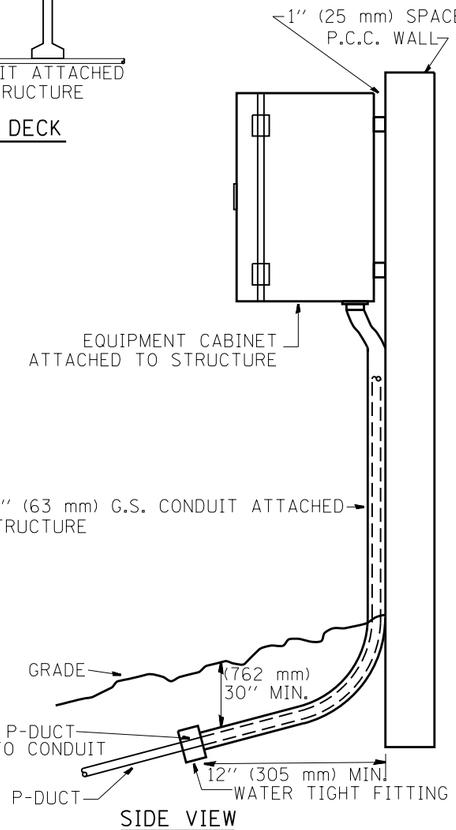
LOOP TRANSITION IN BRIDGE DECK



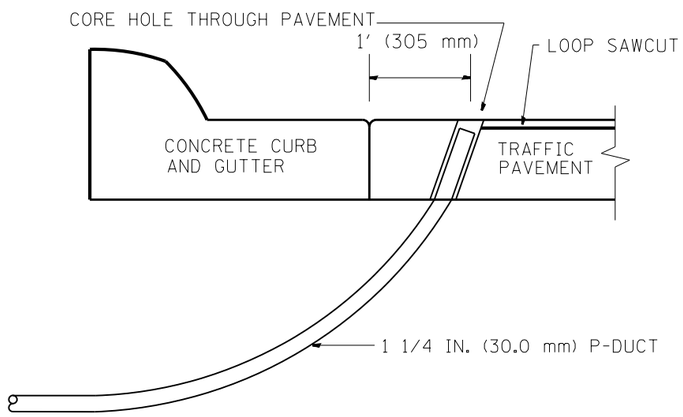
LOOP CROSS SECTION IN PAVEMENT



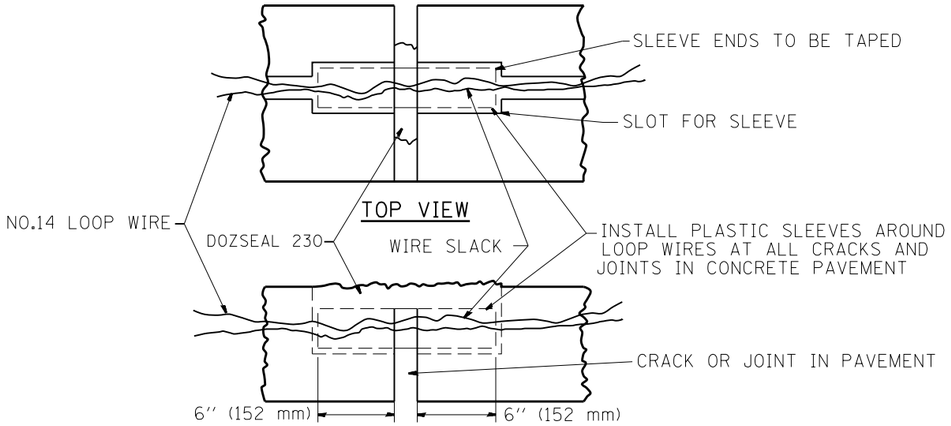
MULTIPLE LOOP SPLICING



POLYETHYLENE DUCT/GS. CONDUIT TRANSITION

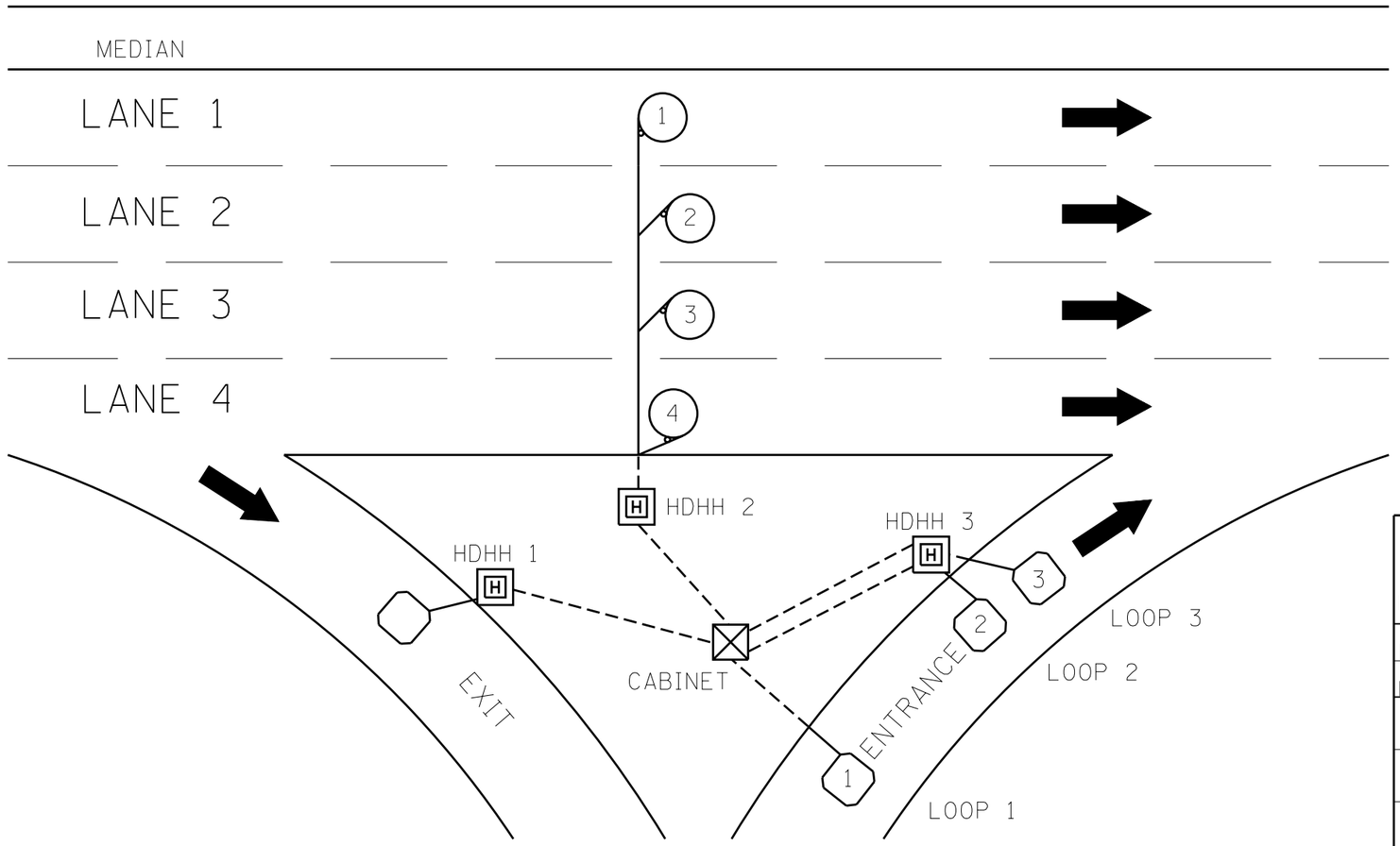


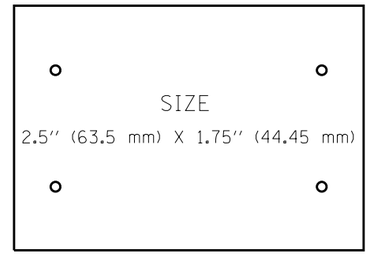
SIDE SECTION LOOP LEAD-IN
TRANSITION DETAIL



SIDE SECTION
PAVEMENT CRACK TRANSVERSE SLEEVE

FILE NAME = c:\pw_work\pwidot\mezag\d0287541\TSCTYP.dgn	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	LOOP, CONDUIT & DUCT INSTALLATION DETAILS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - G.M.	REVISED - 03/95			190	(0101.6&0102.5)RS-2	COOK	85	83
	PLOT SCALE = 100.0000 ' / in.	CHECKED - R.L.	REVISED - 11/95					CONTRACT NO. 60T33		
	PLOT DATE = 5/17/2012	DATE - 06/22/94	REVISED - 10/96		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





SUGGESTED TAG
PANDUIT
#MP25OW175-C
OR EQUIVALENT

HDHH 1 EXAMPLE

IB-EB EXIT
CCW IN/
TO CABINET #____

HDHH 2 EXAMPLE

IB (OB) LANE #__
CCW /OUT
TO CABINET #____

HDHH 3 EXAMPLE

IB-EB ENT.
LOOP #2
CW IN/

NOTE:
EACH LOOP WIRE SHALL BE TAGGED AS ''IN'' OR ''OUT'' AND ''CW'' OR ''CCW''. SHIELDED CABLE WILL BE TAGGED IN EACH HANDHOLE AND CABINET TO MATCH THE CABLE LOG.

LOOP ANALYZER

LOCATION_____ DATE_____

LOOP LOCATION LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

FILE NAME = c:\pw_work\pwidot\mezag\d0287541\TSCTYP.dgn	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94
		DRAWN - G.M.	REVISED - 10/96
	PLOT SCALE = 100.0000 '/ in.	CHECKED - R.L.	REVISED -
	PLOT DATE = 5/17/2012	DATE - 6-27-94	REVISED -

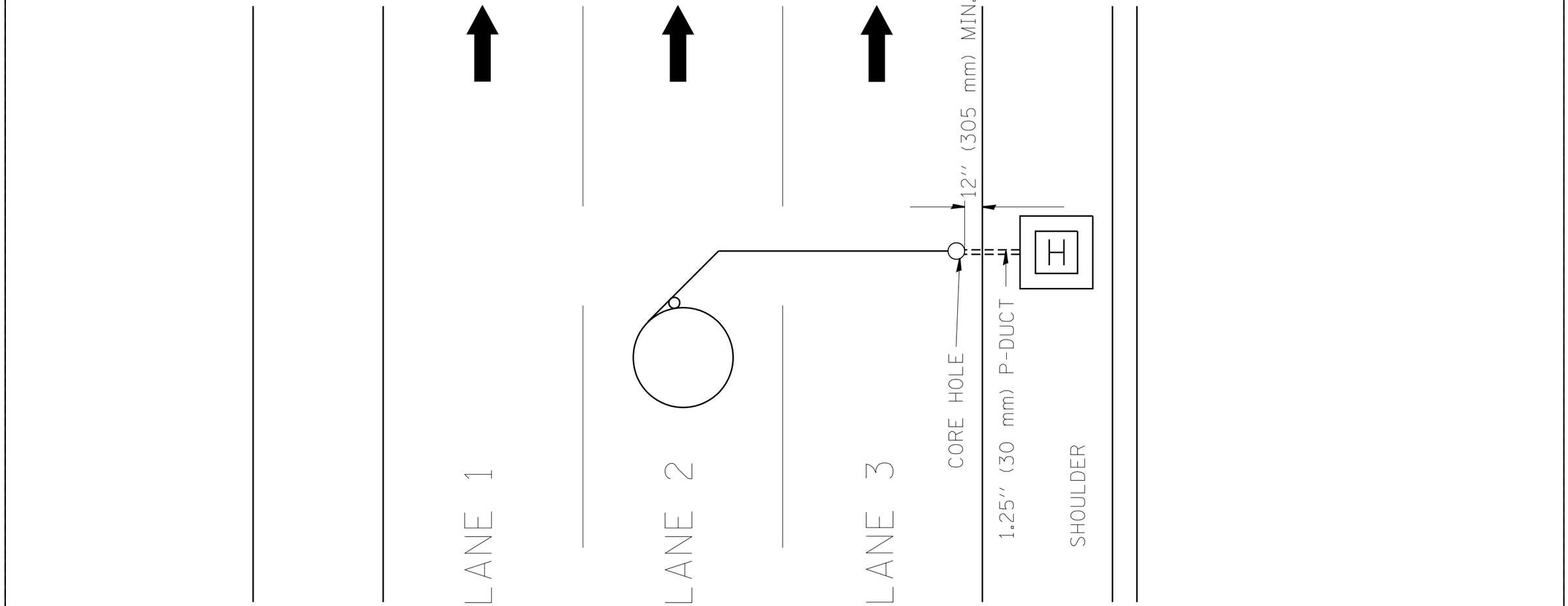
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

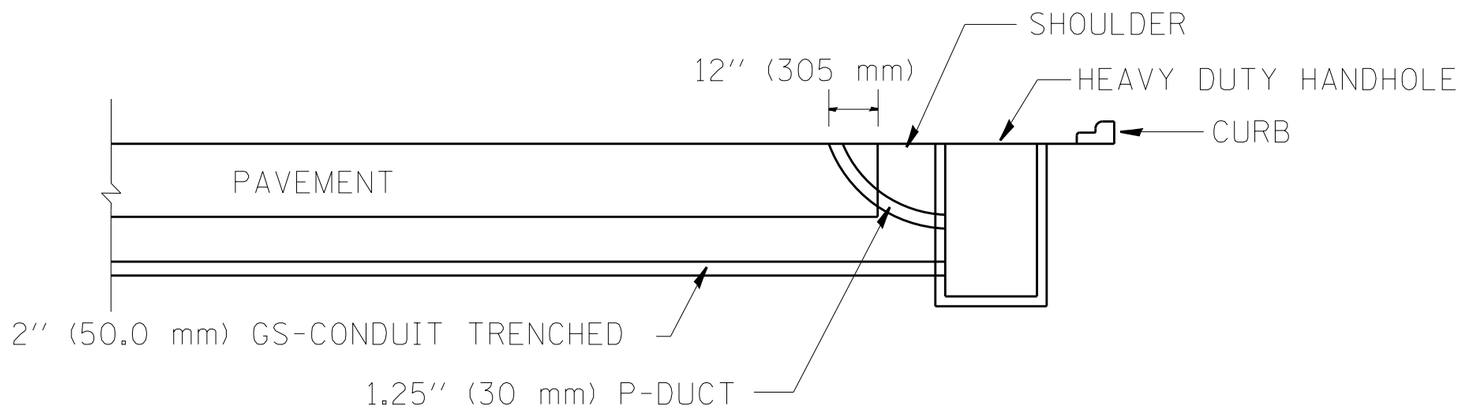
LOOP STATUS REPORT

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	84
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#7)





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		DRAWN - C.M.	REVISED - T.C.
	PLOT SCALE = 100.0000 ' / in.	CHECKED - R.L.	REVISED -
	PLOT DATE = 5/17/2012	DATE - 11/7/95	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

DIVE HOLE DUCT SYSTEM

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	(0101.6&0102.5)RS-2	COOK	85	85
		CONTRACT NO. 60T33		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#8)