ENGINEER

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.U. 2711 / ILL 131

ILL 120 TO 0.2 MI. S. OF ILL 137

SECTION: D-RS-3

RESURFACING (MAINTENANCE)

LAKE COUNTY

C-91-539-08

IMPROVEMENT BEGINS STATION 173+73.51

R. 11 E. R. 12 E.

WAUKEGAN TOWNSHIP AND SHIELDS TOWNSHIP

LOCATION MAP

SCALE: NONE

IMPROVEMENT ENDS STATION 2+42 (SB) STATION 2+92 (NB)

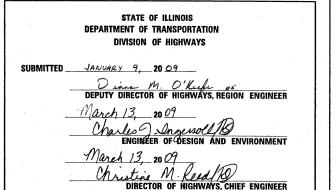
TRAFFIC DATA

2006 ADT = 22,700 SPEED LIMIT = 40 MPH

GROSS & NET LENGTH = 17.131.51 FEET = 3.24 MILES

D-91-539-08





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FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF NORTH CHICAGO

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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: SUNG H. BYUN PROJECT MANAGER: KEN ENG

CONTRACT NO. 60E93

INDEX OF SHEETS

SHEET NO	. DE	SCRIPTION
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1	7-23	DETECTOR LOOP REPLACEMENT PLANS
. 2	24	DRIVEWAY DETAILS - DISTANCE BETWEEN ROW AND CURB OR EDGE GREATER OR EQUAL TO 15' (4.5 METER)
2	25	DRIVEWAY DETAILS - DISTANCE BETWEEN ROW AND CURB OR EDGE FACE OF CURB GREATER THAN 15' (4.5 METER)
2	26	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
1 - 200 A	27	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
2	28	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
	29*	BUTT JOINT AND HMA TAPER DETAILS
	30	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
	31	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS SNOW-PLOW RESISTANT)
	32	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
	33	TRAFFIC CONTROL AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
	34	PAVEMENT MARKINGS, LETTERS AND SYMBOLS FOR TRAFFIC STAGING
	35	ARTERIAL ROAD INFORMATION SIGNING
	36	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
	37-40	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

← STATE STANDARDS

STANDARD NO. DESCRIPTION

000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

442201-03 CLASS C AND D PATCHES

604001-03 FRAME AND GRATE TYPE 23

604086-02 FRAME AND LIDS, TYPE 1

606001-04 CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER

701301-03 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS

701601-06 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN

701606-00 URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN

701701-00 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701901-0/ TRAFFIC CONTROL DEVICES

886001-01 DETECTOR LOOP INSTALLATION

886006-0/ TYPICAL LAYOUT FOR DETECTOR LOOPS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF RIVERSIDE.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

BUTT JOINT WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

10 FEET (3 METER) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB & GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO START OF CONSTRUCTION.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED IS 45 MPH. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED, WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

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	c:\pw_work\pwidot\byunsh\d0101576\sh_rdw	.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS, STATE STANDARDS	2711 D-RS-3	LAKE 40 2
		PLOT SCALE = 52.9397 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	AND GENERAL NOTES		CONTRACT NO. 60E93
-		PLOT DATE = 1/13/2009	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FE	D. AID PROJECT

F.A.U. RTE.	SE	CTION		COUNT	Υ	TOTAL SHEETS	SHEET NO.
2711	. D-	RS-3		LAKE		40	3
FED.	ROAD DIST	. NO. 1	Til	INOIS	HIG	HWAY PRO	DJECT

	SUMMARY OF QUANTITIES	· · · · · · · · · · · · · · · · · · ·	URBAN			CONSTRUC	TION TYPE	CODE	·		SUMMARY OF QUANTITIES		URBAN			CONSTRUC	TION TYPE	CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES 100% FED.	I 000		and the second s		E .		CODE NO	ITEM	UNIT	TOTAL QUANTITIES 100% FED.	I 000					
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	140	140						60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	22	22					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	150	150						60605000	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	2500	2500					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	52	52							TYPE B-6.24								
40600300	AGGREGATE (PRIME COAT)	TON	260	260						67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	The state of the s	1			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	50	50						67100100	MOBILIZATION	L SUM	1	1	1,				-
40600895	CONSTRUCTING TEST STRIP	EACH	2	2					, ·	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	380	380						70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1					
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	140	140						70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1 .					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	610	610	V .					70300100	SHORT-TERM PAVEMENT MARKING	FOOT	15000	15000					
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	35	35		. 1				70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	800	800					
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	13133	13133						70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	71000	71000					
42001300	PROTECTIVE COAT	SO YD	100	100						70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	4650	4650			:		
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	-130	130	-					70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	450	450					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	140	140						70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1250	1250		Mary Constitution of the C			
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/a"	SO YD	126290	126 290						70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1210	1210			·		
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	3810	3810						70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	5000	5000					
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	555	555					Υ	× 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	800	800					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2500	2500						78000200	THERMOPLASTIC PAVEMENT MARKING	FOOT	71000	71000					
14002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SO YD	3015	3015						79 10000200	- LINE 4"	1 001	1.000	1.7000					
44201765	CLASS D PATCHES, TYPE II. 10 INCH	SO YD	1705	1705						¥ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4650	4650				:	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	750	750						* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1250	1250					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	560	560						¥ 78000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	1210	1210					
60251730	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	2	2	•						- LINE 24"								
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	6	6						¥ 78000845	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 8 INCH	FOOT	450	450					
60300205	FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)	EACH	10	10					V	¥ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1500	1500					

* SPECIALTY ITEMS

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

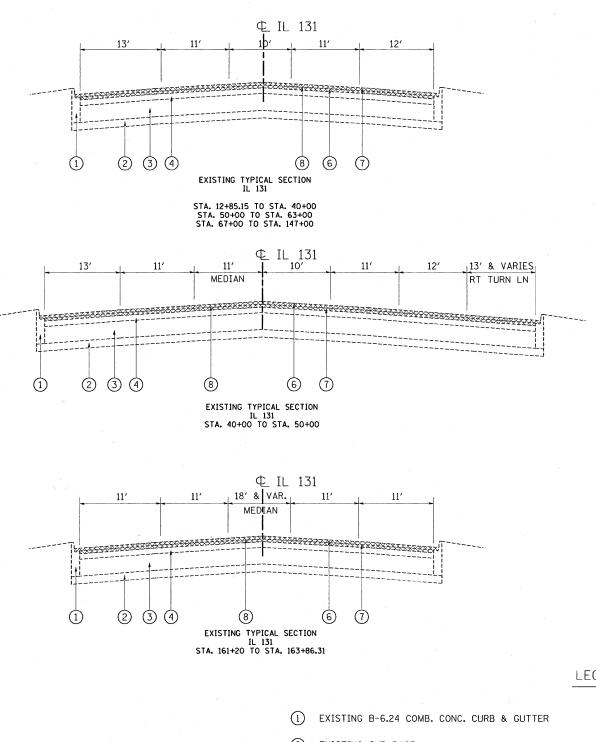
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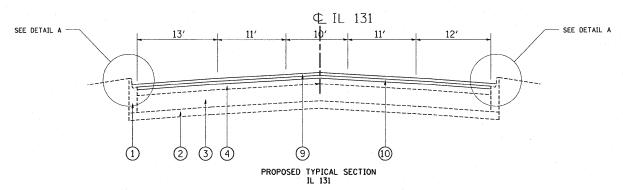
PLOT DATE: 1/13/2009

CONTRACT 60E93

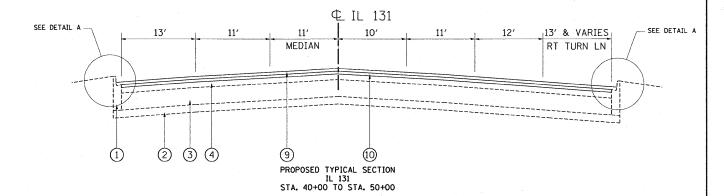
																F.A.U. RTE. 2711 FED. R	SECTION D-RS-3 OAD DIST, NO.		LAKE 4	TOTAL SHEE SHEETS NO 40 4 AY PROJECT
		SUMMARY OF QUANTITIES	<u> </u>		, (CONSTRUCT	ION TYPE	CODE		1 A MMI I P	RY OF QUA	NTITIES		<u>T</u>			CONSTRUCT	ION TYPE (CODE	
c	ODE NO	ITEM	URBAN TOTAL UNIT QUANTITIES 100% FED.		00				CODE NO	JOWNIA	ITEM		UNIT	TOTAL QUANTITIES	I 000					
78		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH 900	900						:										
* 88	600600	DETECTOR LOOP REPLACEMENT	F00T 4000	4000																
хо	322256	TEMPORARY INFORMATION SIGNING	SO FT 359.8	359	. 8															
хо		PORTLAND CEMENT CONCRETE SURFACE REMOVAL 2 1/2"	SO YD 1400	1400																
X4	021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH 7	7																
X4		POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON 5630	5630										-						
		DRAINAGE STRUCTURES TO BE CLEANED	EACH 20	20	. 1										1 2					
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- rk@pwidg		# - Specially Items												NAME		ATE	SUMMA	RY OF C	TRANSPORTATION TO THE PROPERTY OF THE PROPERTY	IES

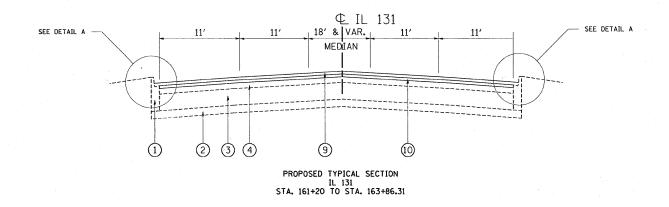
PLOT DATE: 1/13/2009





STA. 12+85.15 TO STA. 40+00 STA. 50+00 TO STA. 63+00 STA. 67+00 TO STA. 147+00



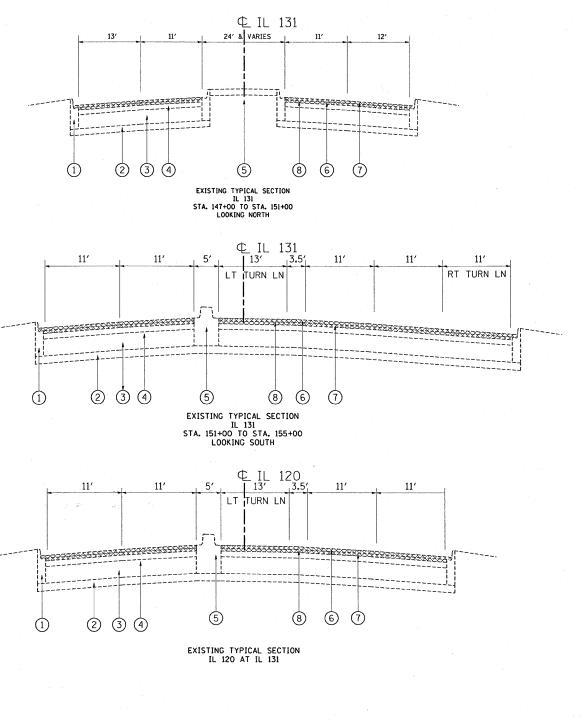


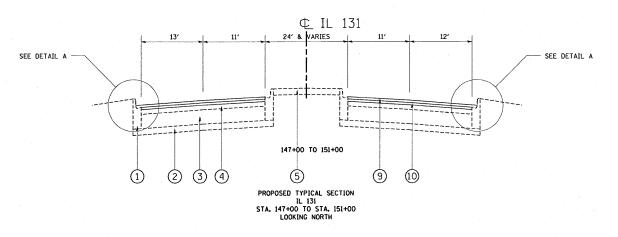
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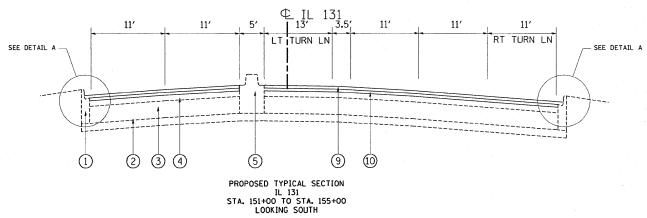
- 2 EXISTING SUB BASE
- 3) EXISTING PCC BASE COURSE, ±10"
- 4) EXISTING HMA BASE COURSE, ±4"
- (5) EXISTING CONCRETE BARRIER MEDIAN

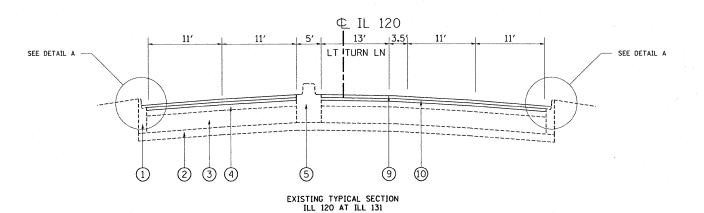
- (6) EXISTING HMA SURFACE COURSE, ±1-1/2"
- 7 EXISTING HMA BINDER COURSE, ±1"
- 8) PROPOSED HMA SURFACE REMOVAL, 2-1/2"
- 9) PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1-3/4"
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) COURSE, IL-4.75, N50, 3/4"

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·	PLOT DATE = 1/13/2009	DATE -	REVISED -	·	SCALE:	SHEET NO.	OF	SHE	ETS STA.	TO STA.	FED. ROAD D	IST. NO. I	LLINOIS FED. AID PR		







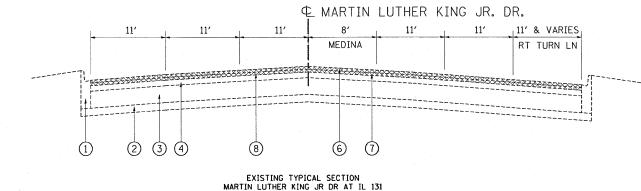


LEGEND

- 1) EXISTING B-6.24 COMB. CONC. CURB & GUTTER
- (2) EXISTING SUB BASE
- 3 EXISTING PCC BASE COURSE, ±10"
- 4 EXISTING HMA BASE COURSE, ±4"
- 5 EXISTING CONCRETE BARRIER MEDIAN

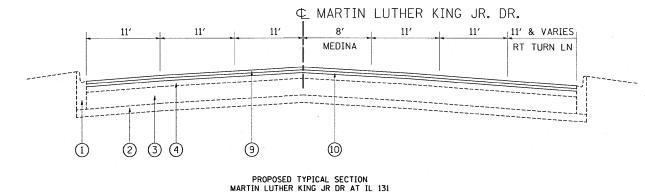
- 6 EXISTING HMA SURFACE COURSE, ±1-1/2"
- (7) EXISTING HMA BINDER COURSE, ±1"
- (8) PROPOSED HMA SURFACE REMOVAL, 2-1/2"
- (9) PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1-3/4"
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) COURSE, IL-4.75, N50, 3/4"

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	PLOT DATE = 1/13/2009	DATE -	REVISED ~		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST	. NO. ILLINOIS FED.	AID PROJECT



LEGEND

- (1) EXISTING B-6.24 COMB. CONC. CURB & GUTTER
- 2 EXISTING SUB BASE
- 3 EXISTING PCC BASE COURSE, ±10"
- 4 EXISTING HMA BASE COURSE, ±4"
- (5) EXISTING CONCRETE BARRIER MEDIAN
- 6 EXISTING HMA SURFACE COURSE, ±1-1/2"
- 7 EXISTING HMA BINDER COURSE, ±1"
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- (9) PROPOSED POYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1-3/4"
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) COURSE, IL-4.75, N50, 3/4"

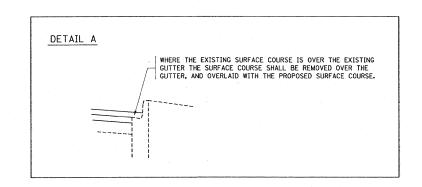


HOT-MIX ASPHALT MIXTURE REQUIREMENTS

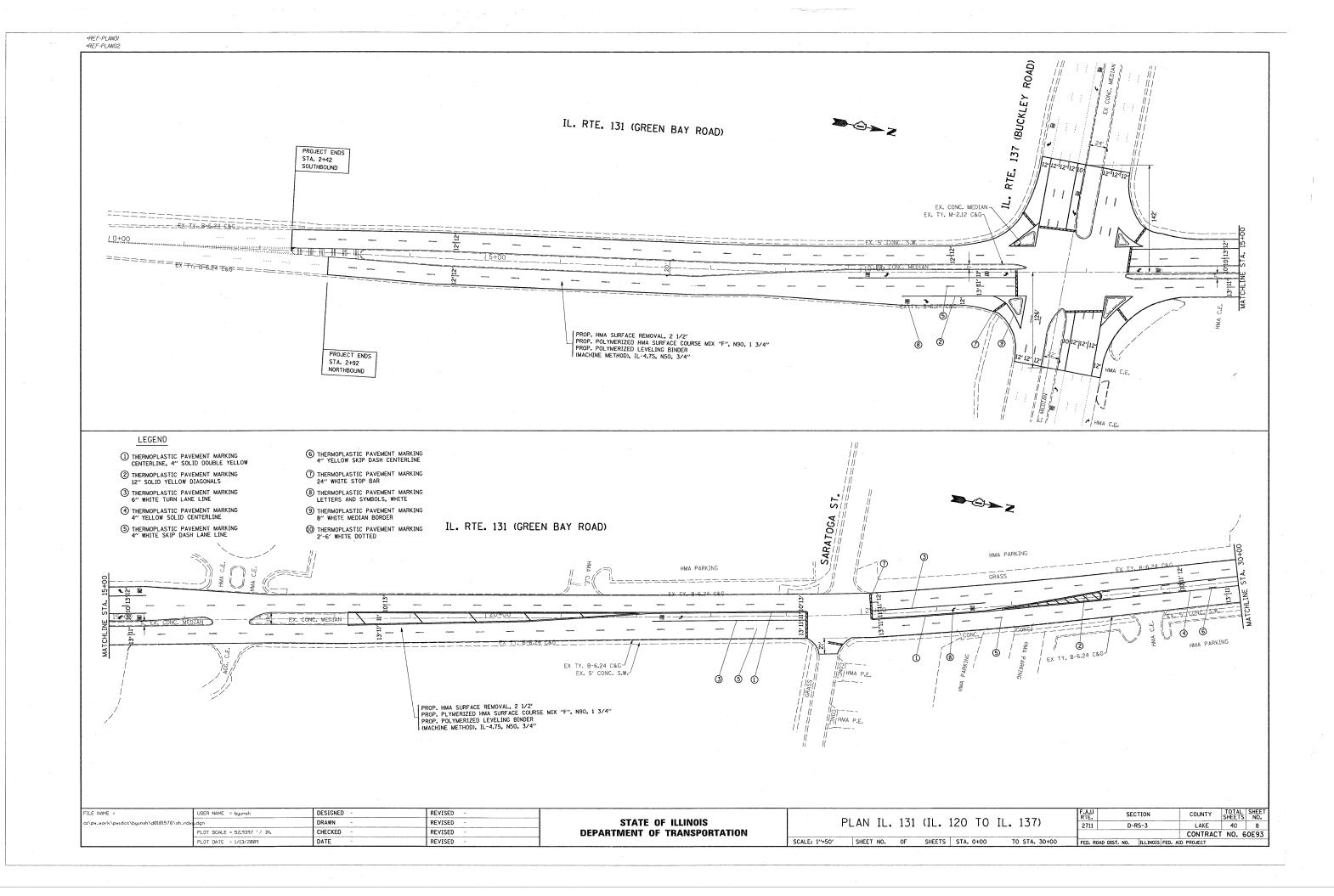
MIXTURE TYPE	AC TYPE	AIR VOIDS (%)
POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50	SBS/SBR 76-28/-22	4% № 50 GYR
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90	SBS/SBR PG 70-22	4% @ 90 GYR
BIT. REPLACEMENT OVER PATCHES, (HMA BINDER IL-19.0 MM)	PG 64-22 **	4% @ 70 GYR
CLASS D PATCHES, HMA BINDER IL-19 MM, 10"	PG 64-22 **	4% © 70 GYR
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	PG 64-22	4% @ 50 GYR
HOT-MIX ASPHALT BASE COURSE	PG 64-22/58-22	4% © 50 GYR

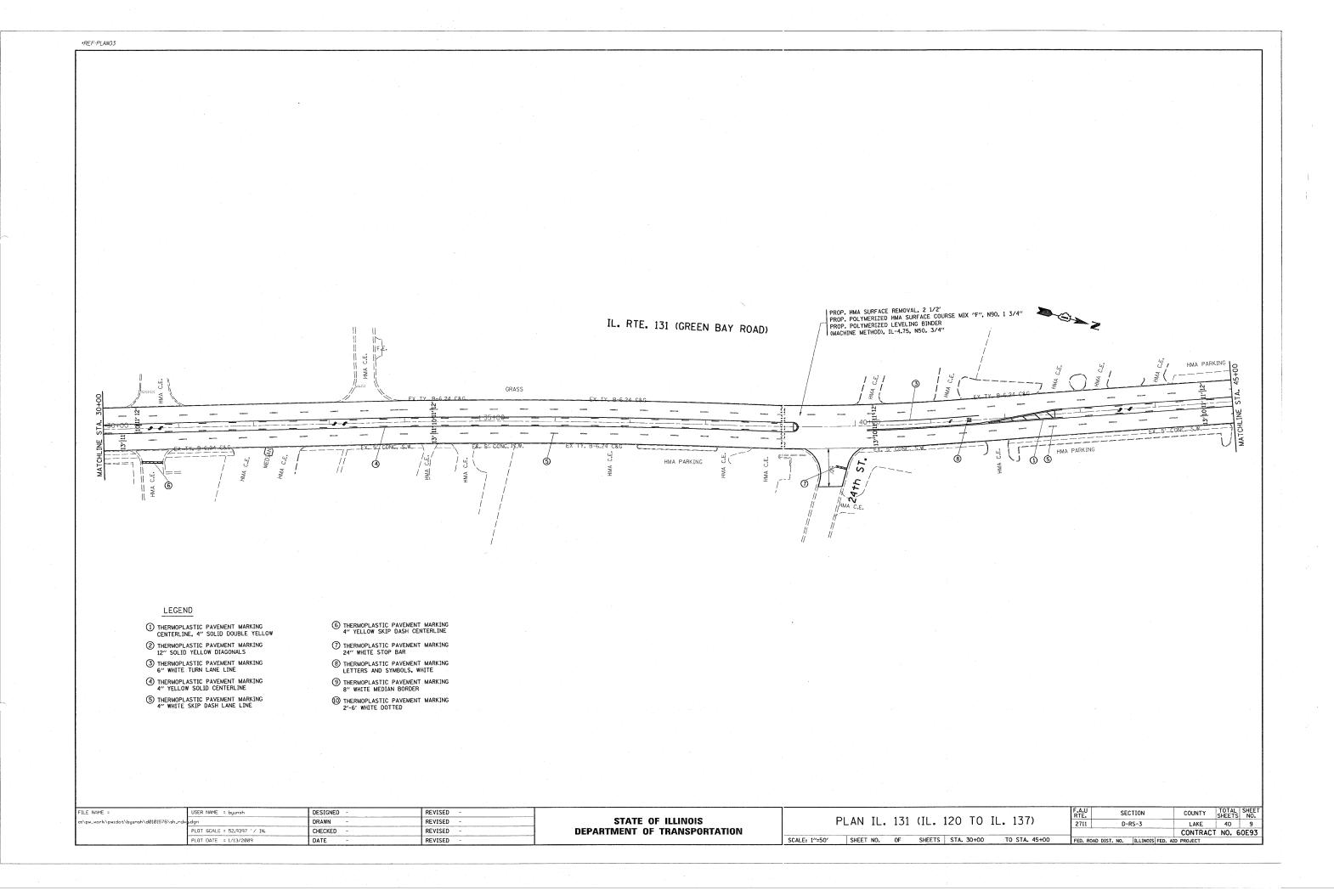
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES QUANTITIES IS 112 LBS/SQ YD/IN

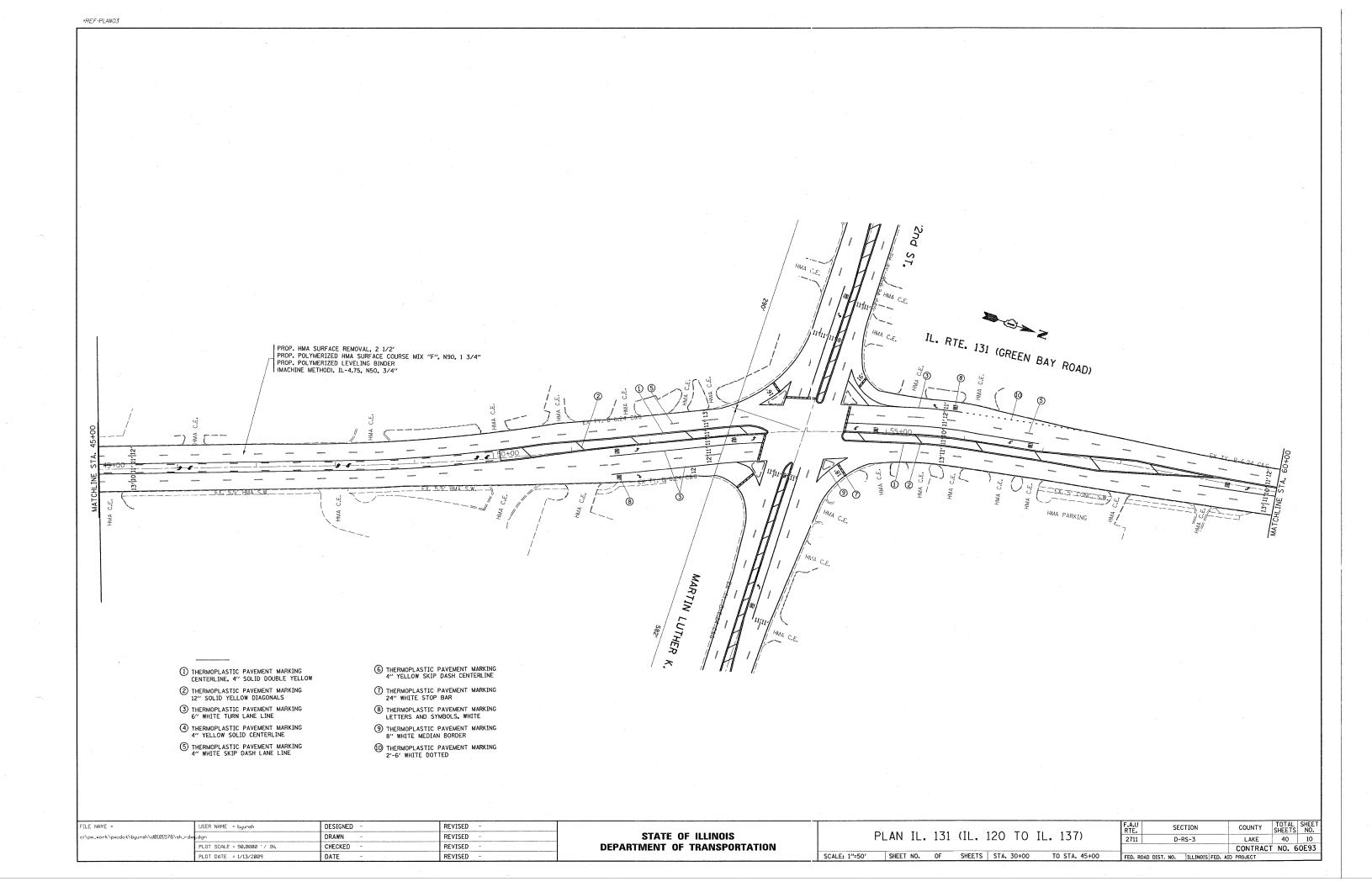
** WHEN RAP EXCEEDS 20 %, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

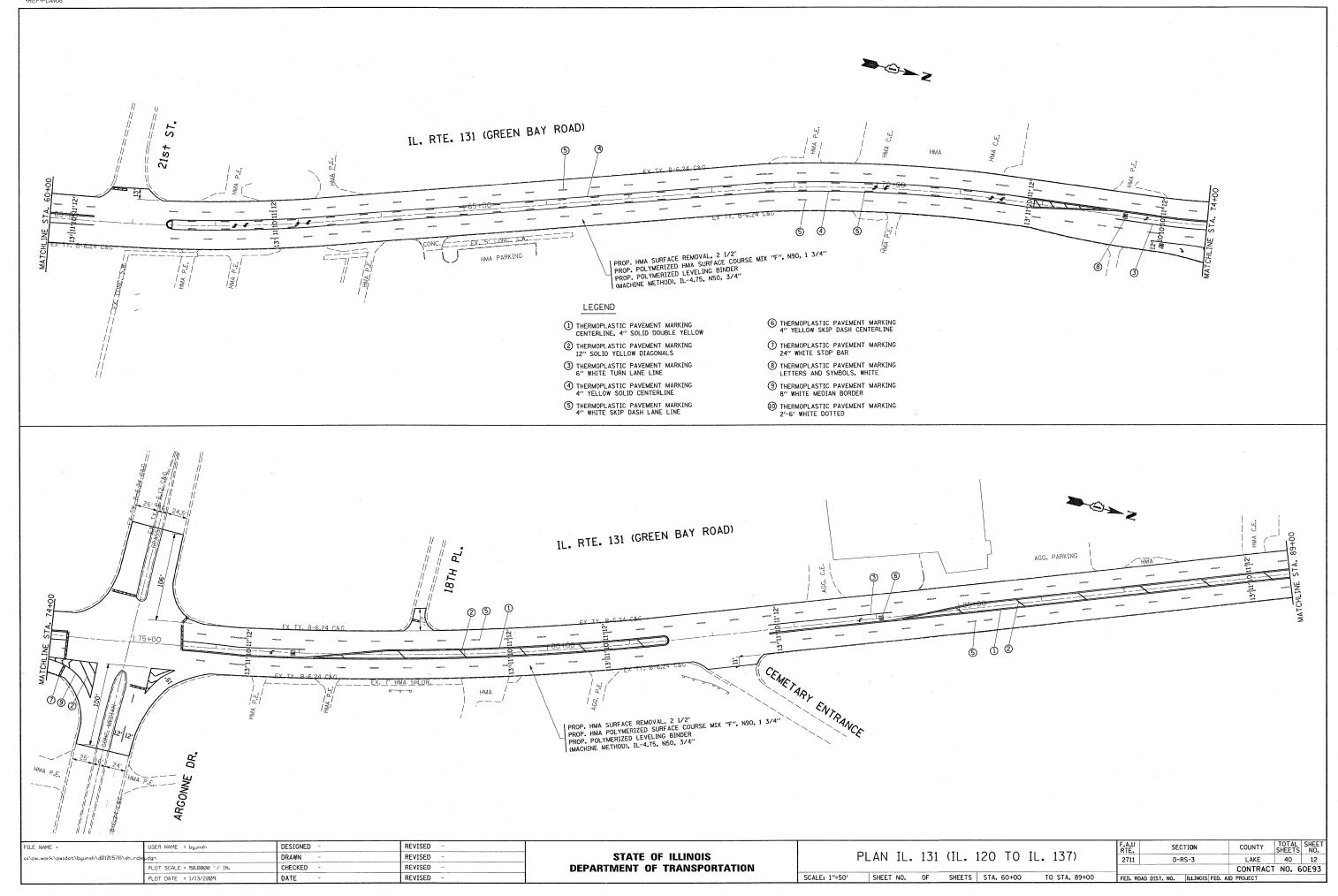


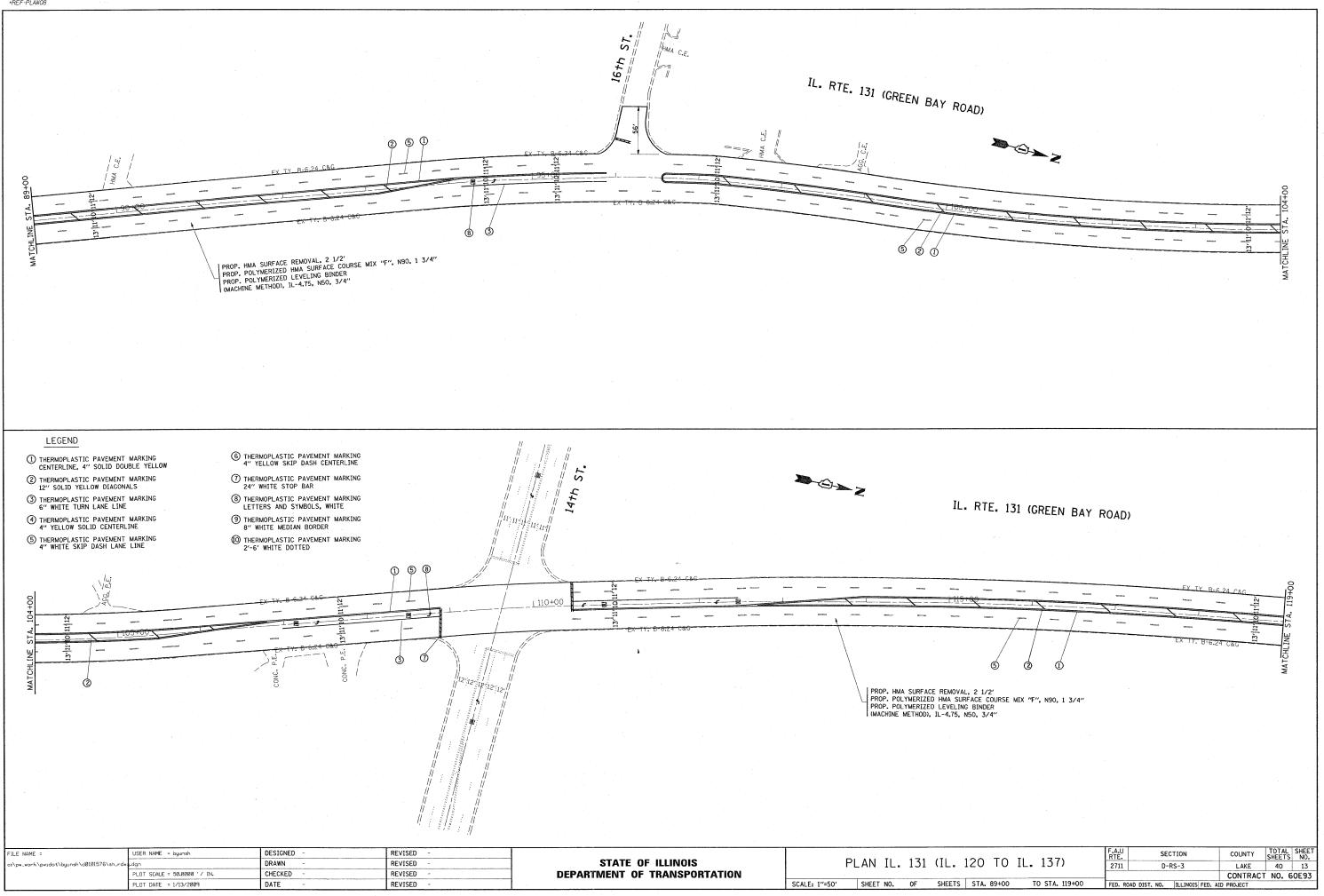
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			TVPI	CAL SE	CTIONS		2711	D-RS-3	LAKE	40	7
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SCALE:	SHEET	NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED. A	D PROJECT		

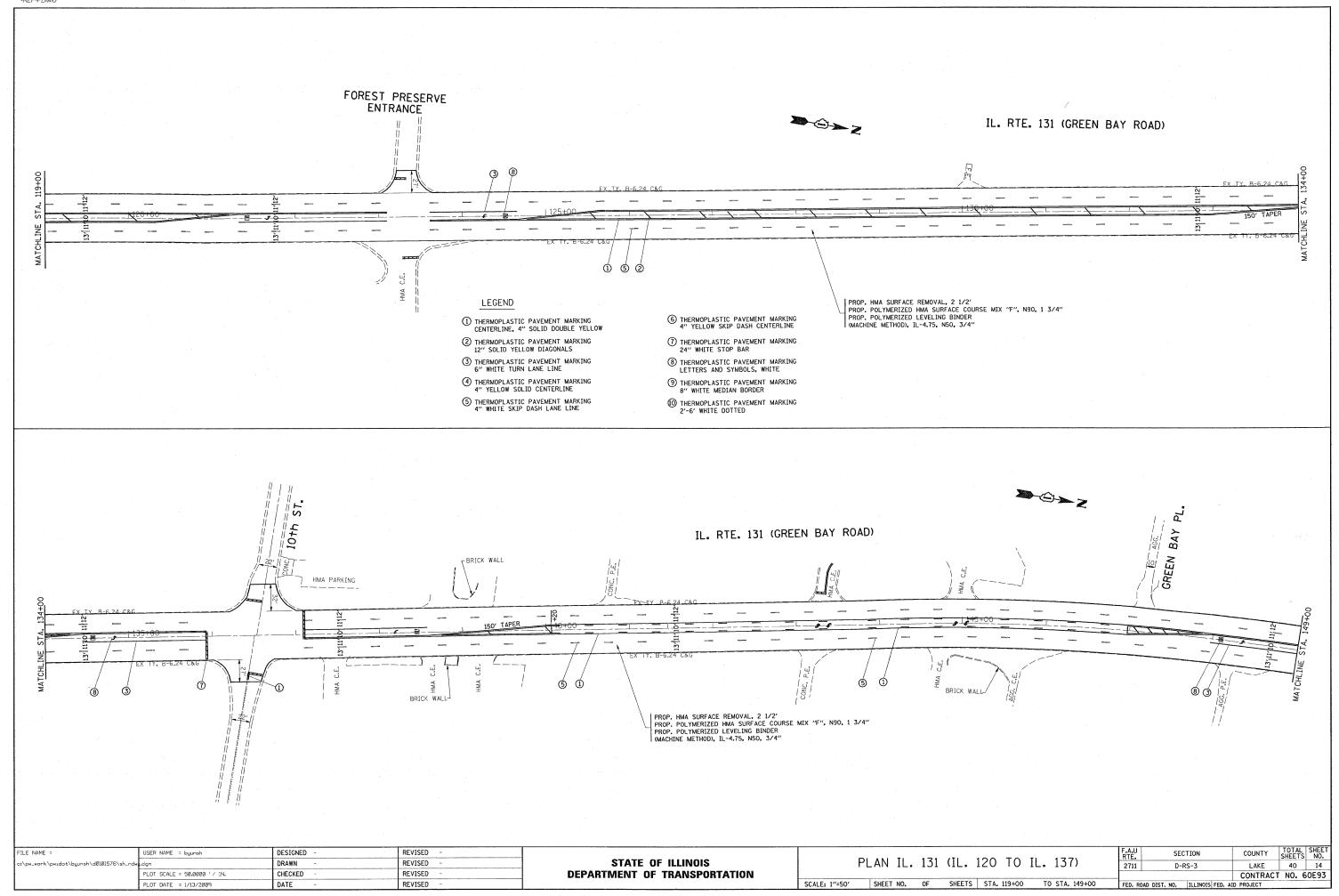












DEPARTMENT OF TRANSPORTATION

CHECKED

DATE

PLOT SCALE = 50.0000 '/ IN.

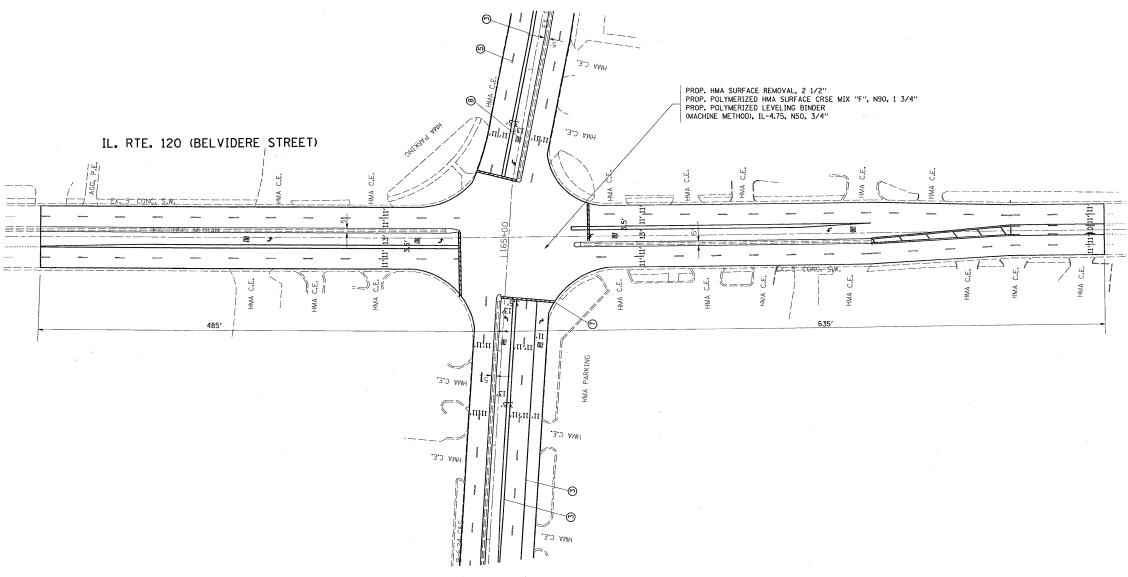
PLOT DATE = 1/13/2009

REVISED

REVISED

D-RS-3

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 149+00 TO STA. 173+73.51 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT



LEGEND

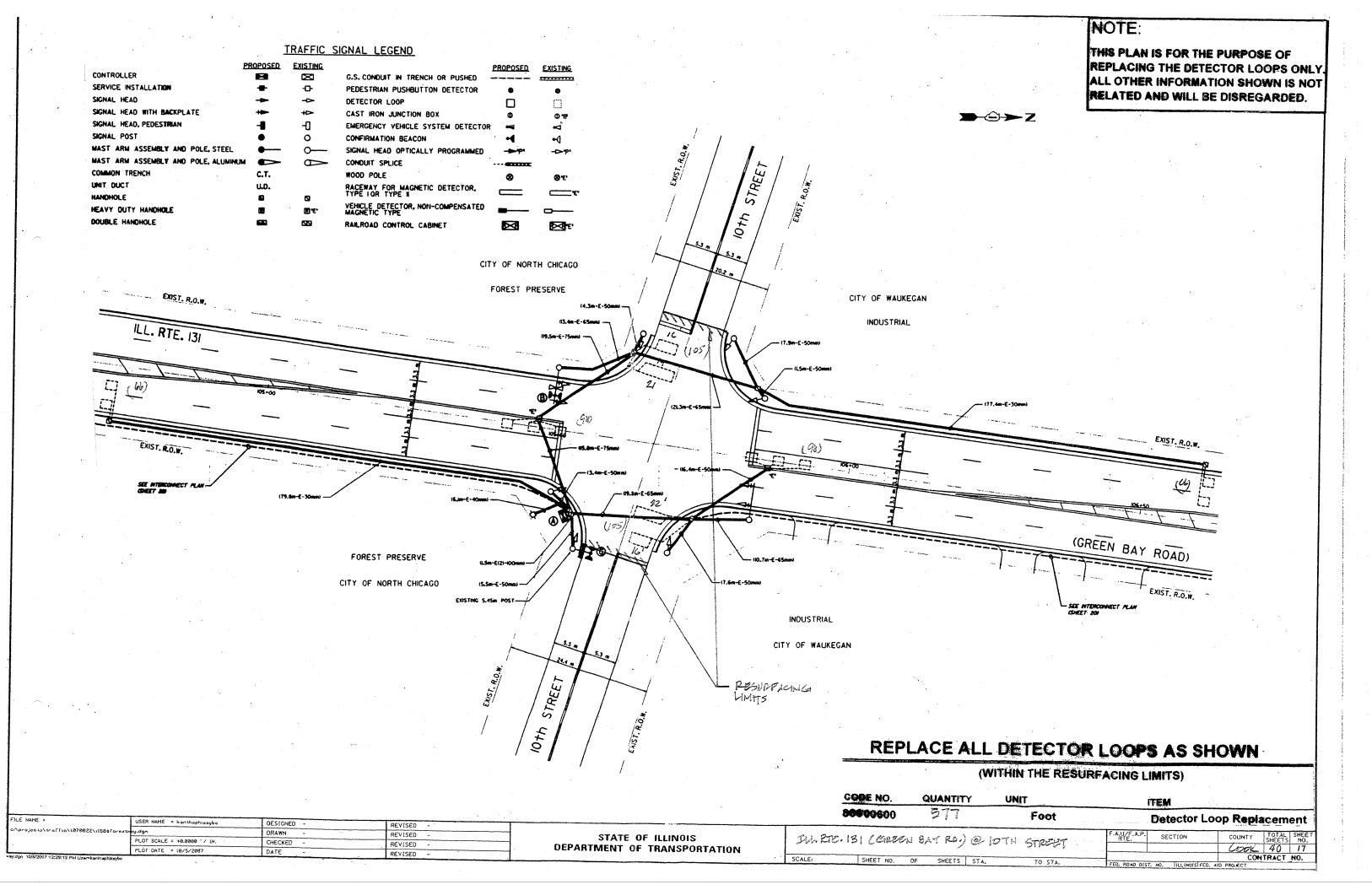
- 1 THERMOPLASTIC PAVEMENT MARKING CENTERLINE, 4" SOLID DOUBLE YELLOW
- ② THERMOPLASTIC PAVEMENT MARKING 12" SOLID YELLOW DIAGONALS
- 3 THERMOPLASTIC PAVEMENT MARKING 6" WHITE TURN LANE LINE
- THERMOPLASTIC PAVEMENT MARKING
 4" YELLOW SOLID CENTERLINE
- (5) THERMOPLASTIC PAVEMENT MARKING 4" WHITE SKIP DASH LANE LINE
- 6 THERMOPLASTIC PAVEMENT MARKING 4" YELLOW SKIP DASH CENTERLINE
- THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR
- 8 THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE
- THERMOPLASTIC PAVEMENT MARKING 8" WHITE MEDIAN BORDER
- (1) THERMOPLASTIC PAVEMENT MARKING 2'-6' WHITE DOTTED

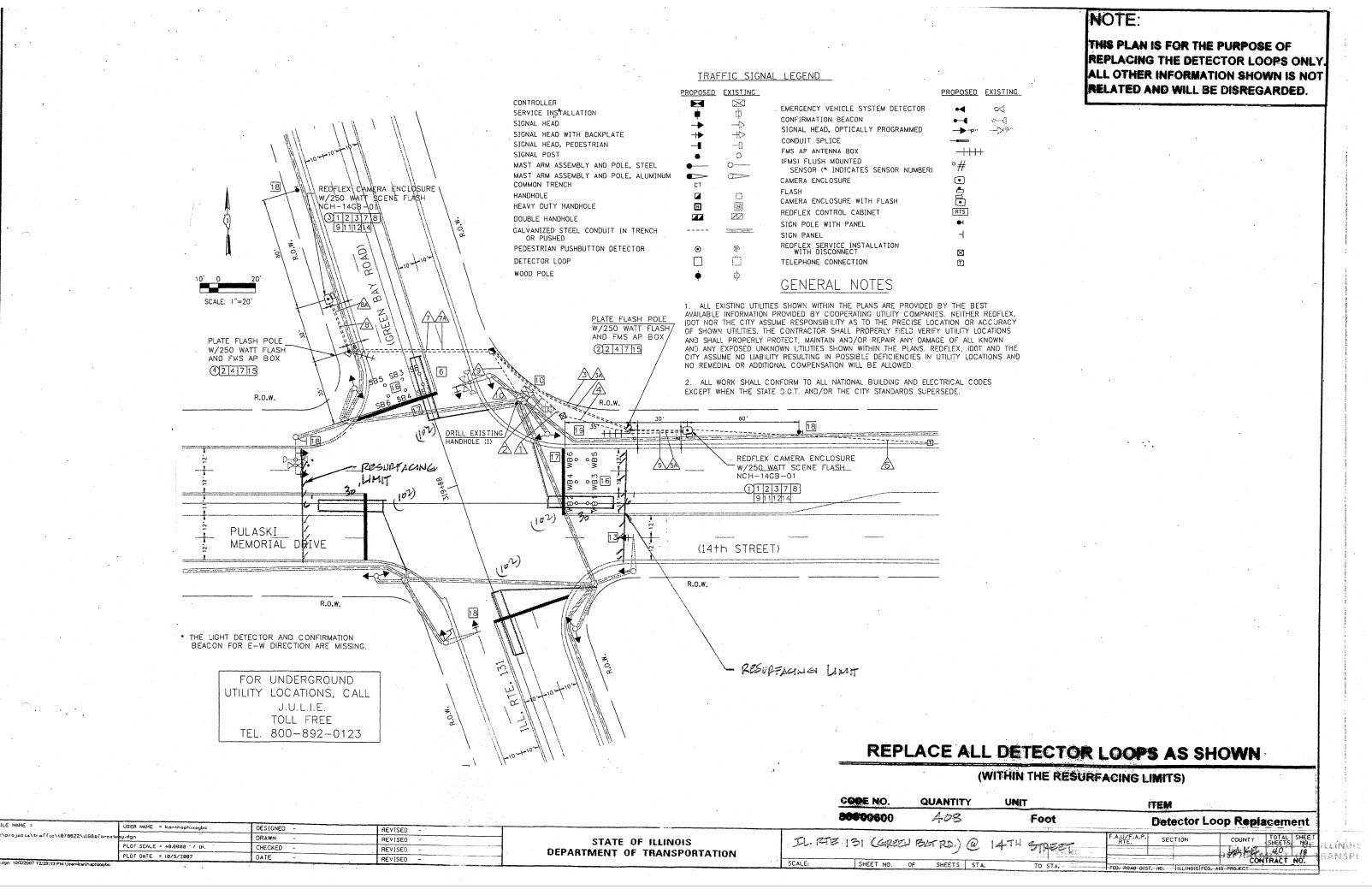
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	PLOT DATE = 1/13/2009	DATE -	REVISED -

STATI	E 01	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

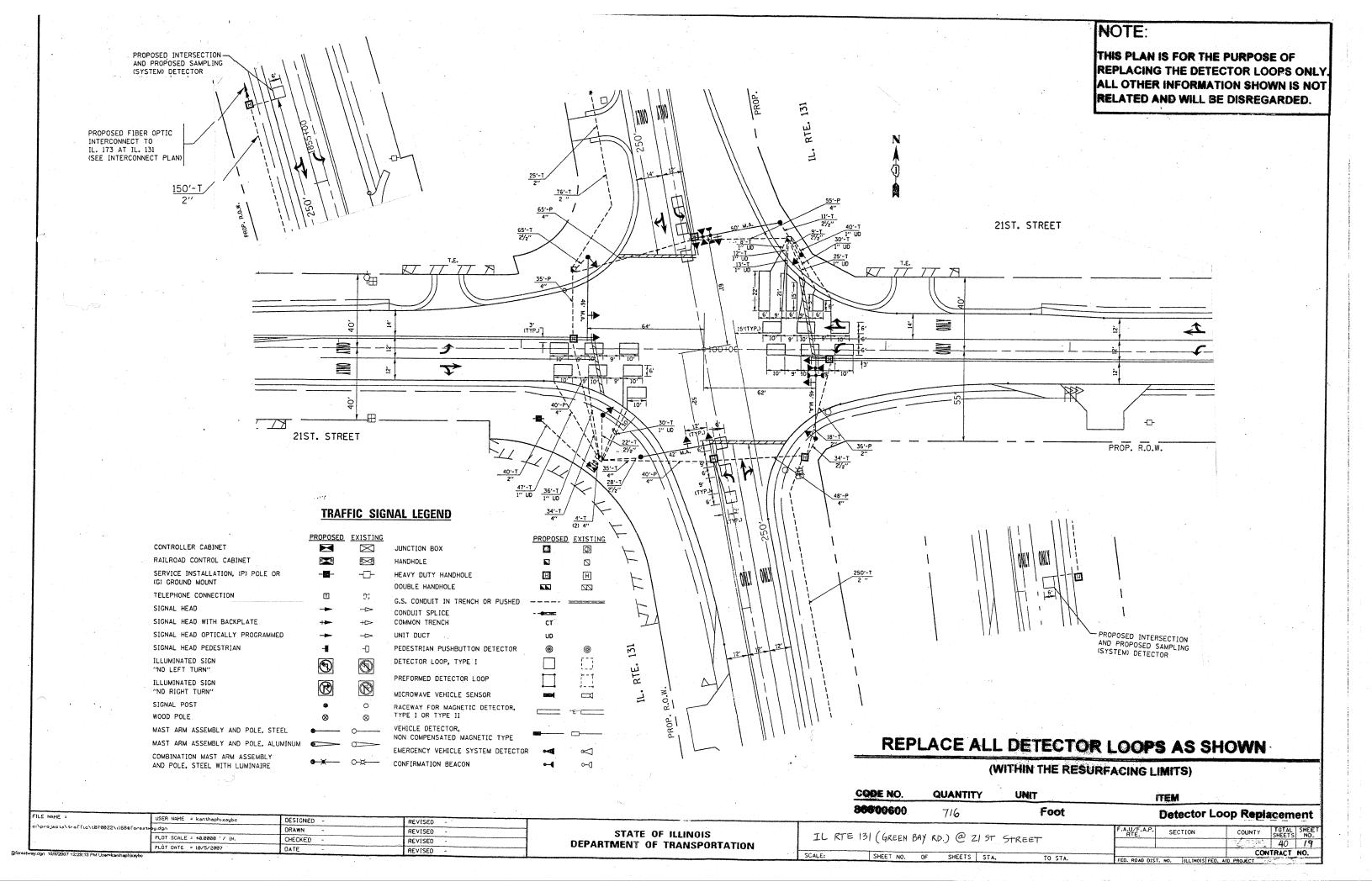
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SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.		TO	STA.

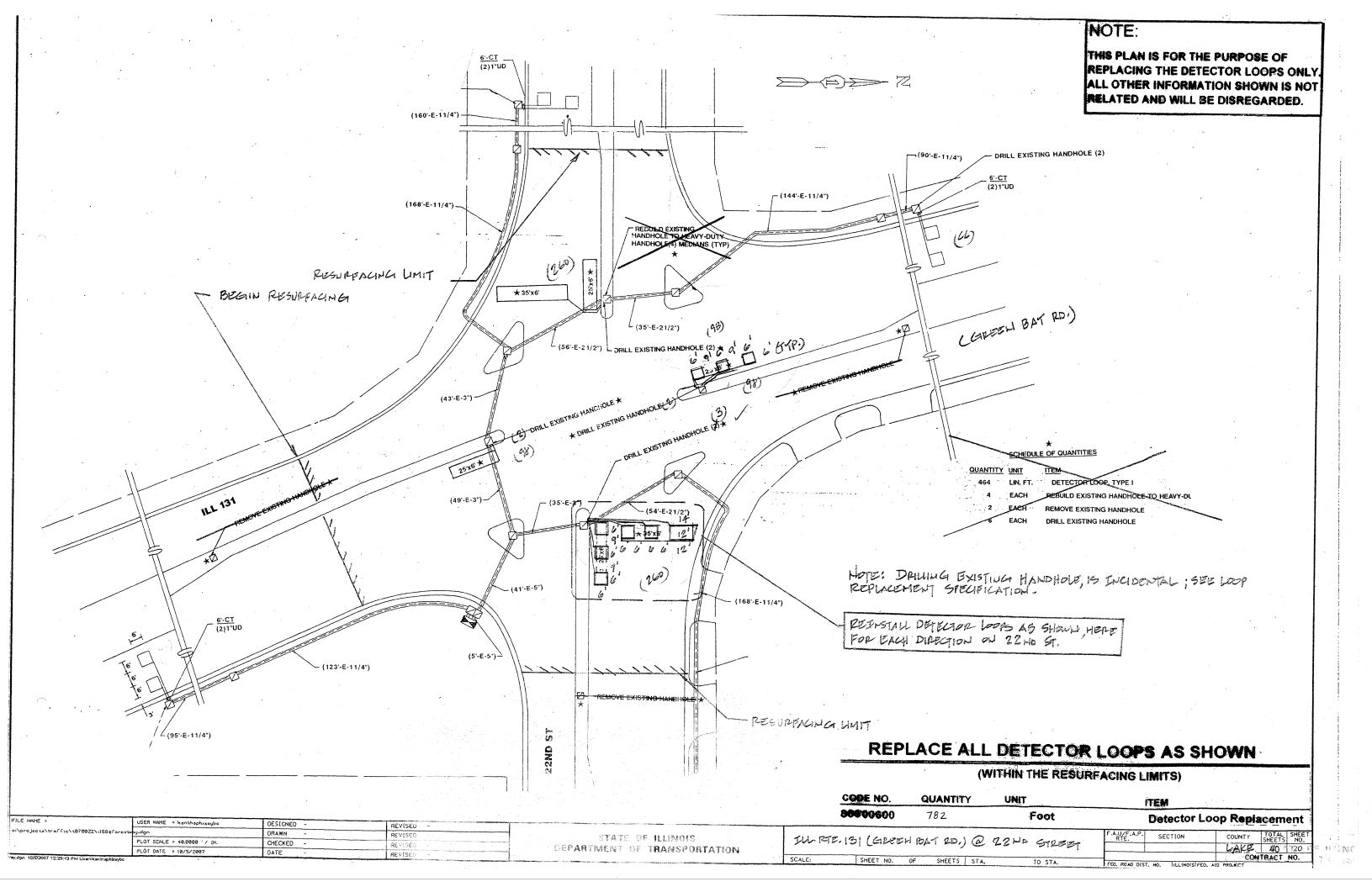
	 	CONTRA	CT NO. 6	OE93
		CONTRA	CT NO. 6	50E93
2711	D-RS-3	LAKE	40	16
RIE.	 		SHEETS	NO.
F.A.U	SECTION	COUNTY	TOTAL	SHEET





FILE NAME :

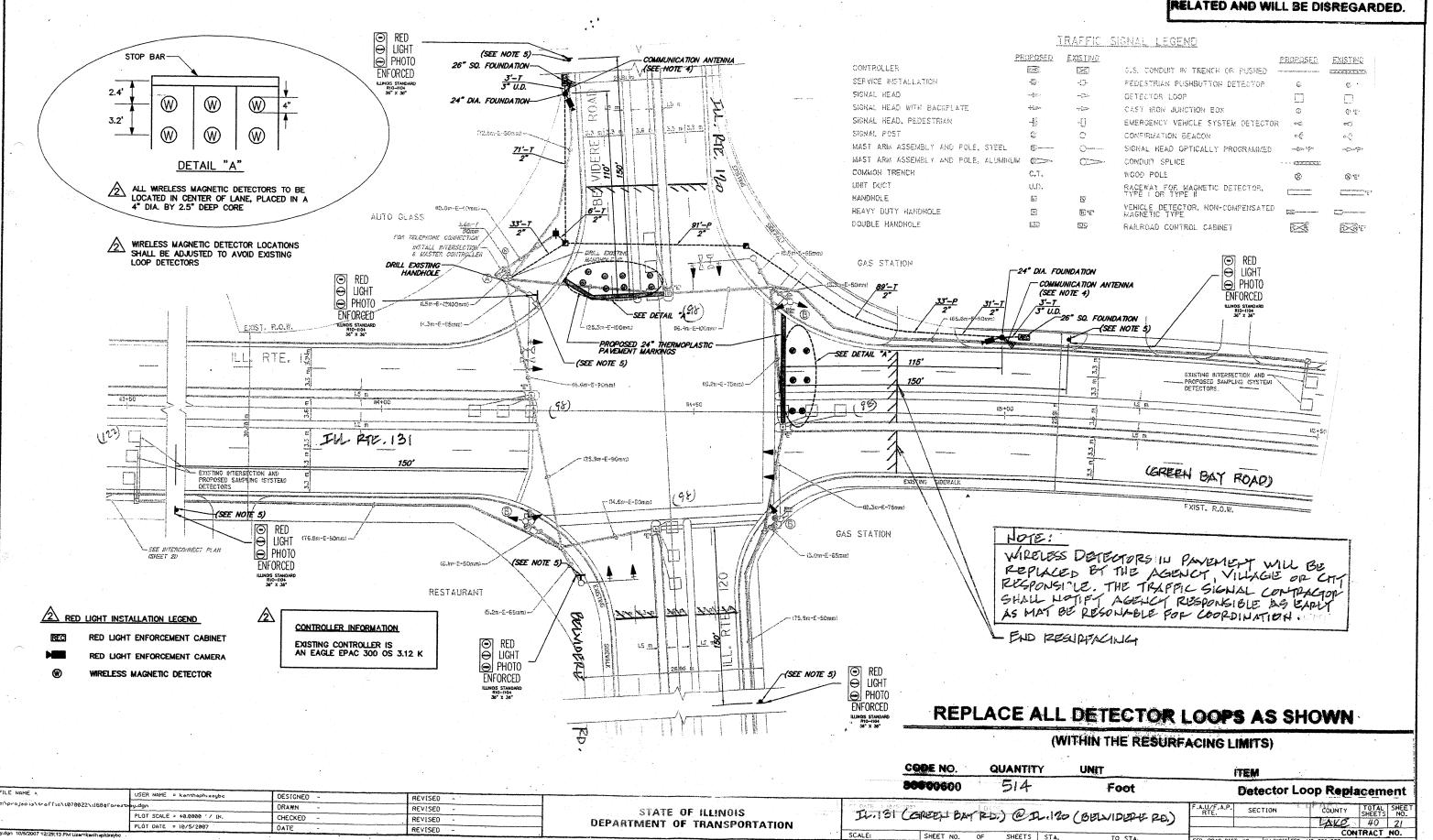


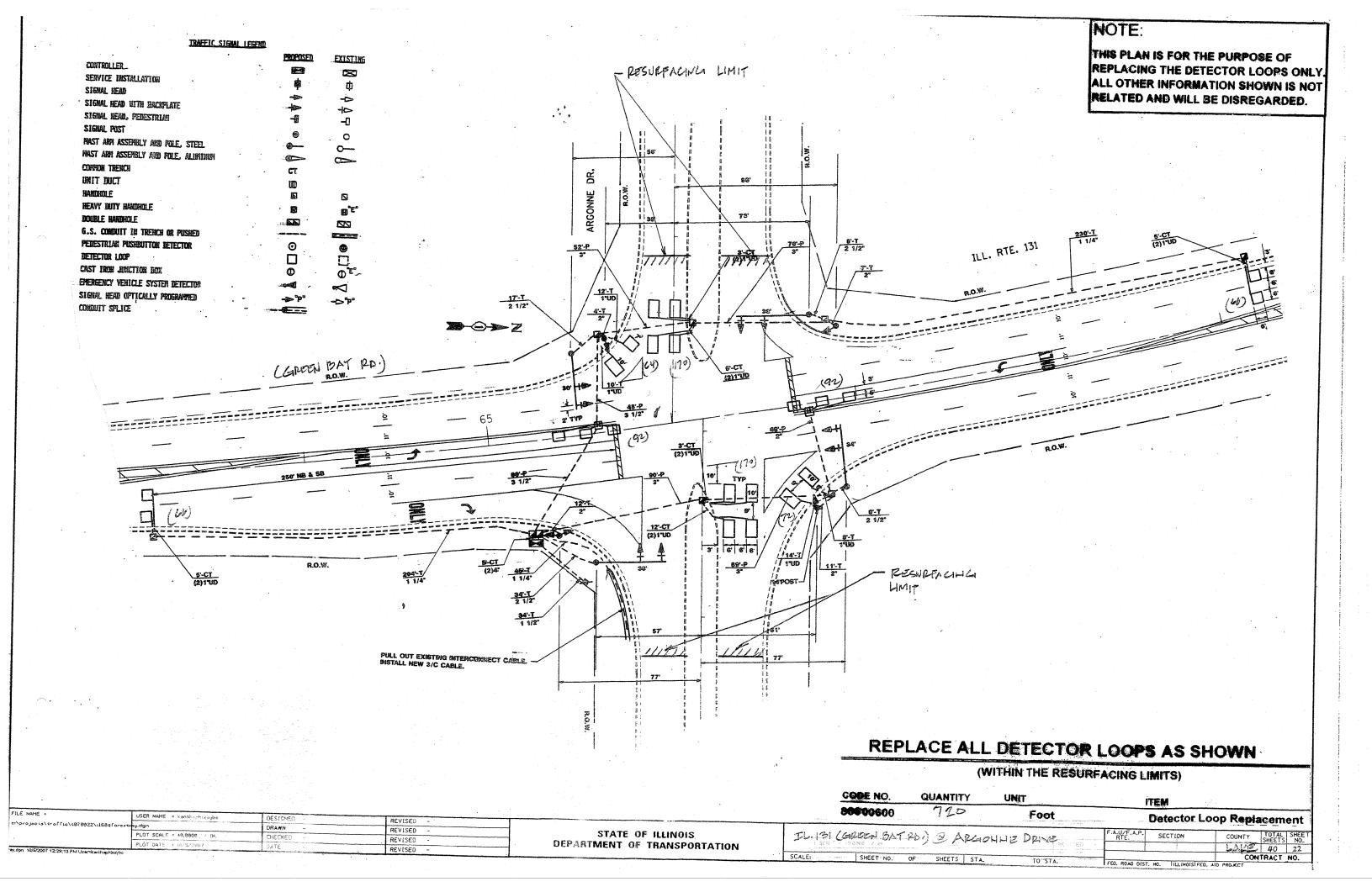


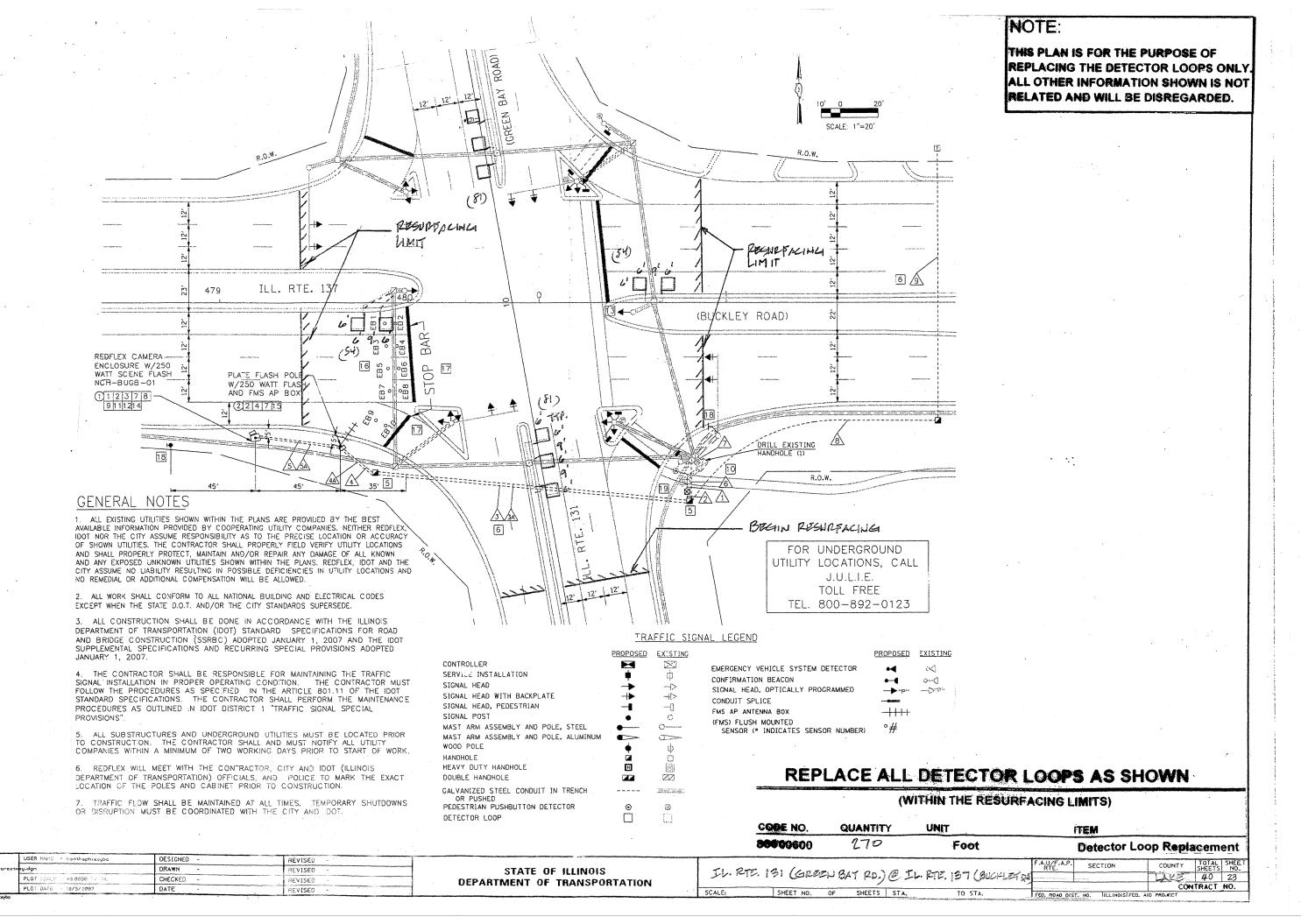
NORTH

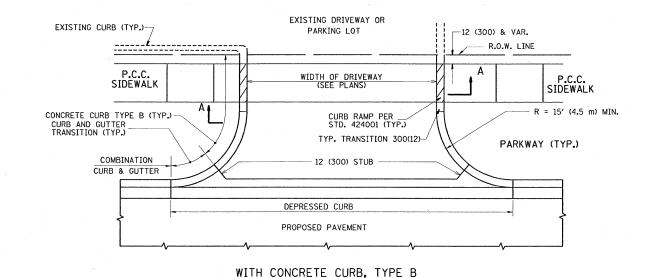
NOTE:

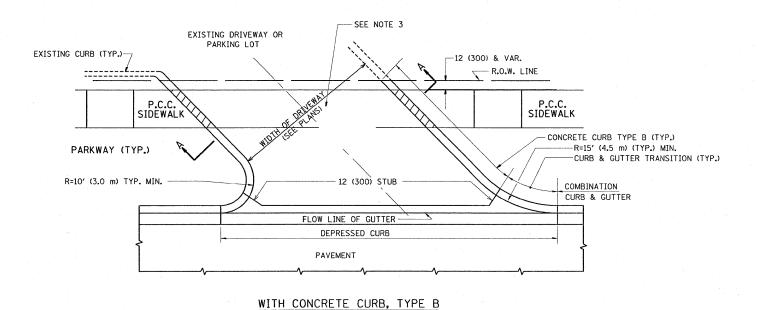
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

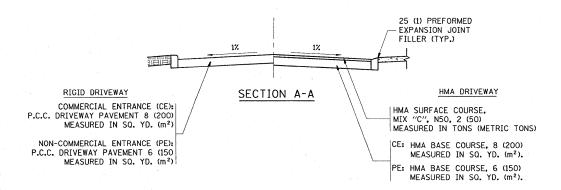


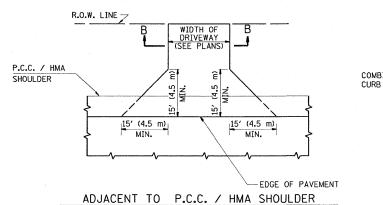


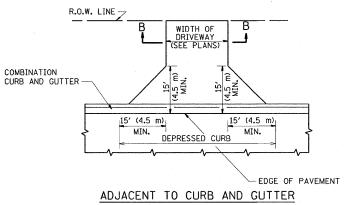


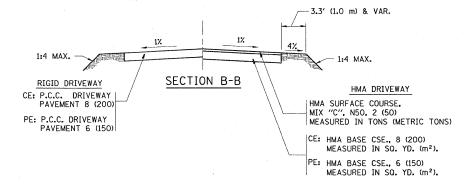












RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

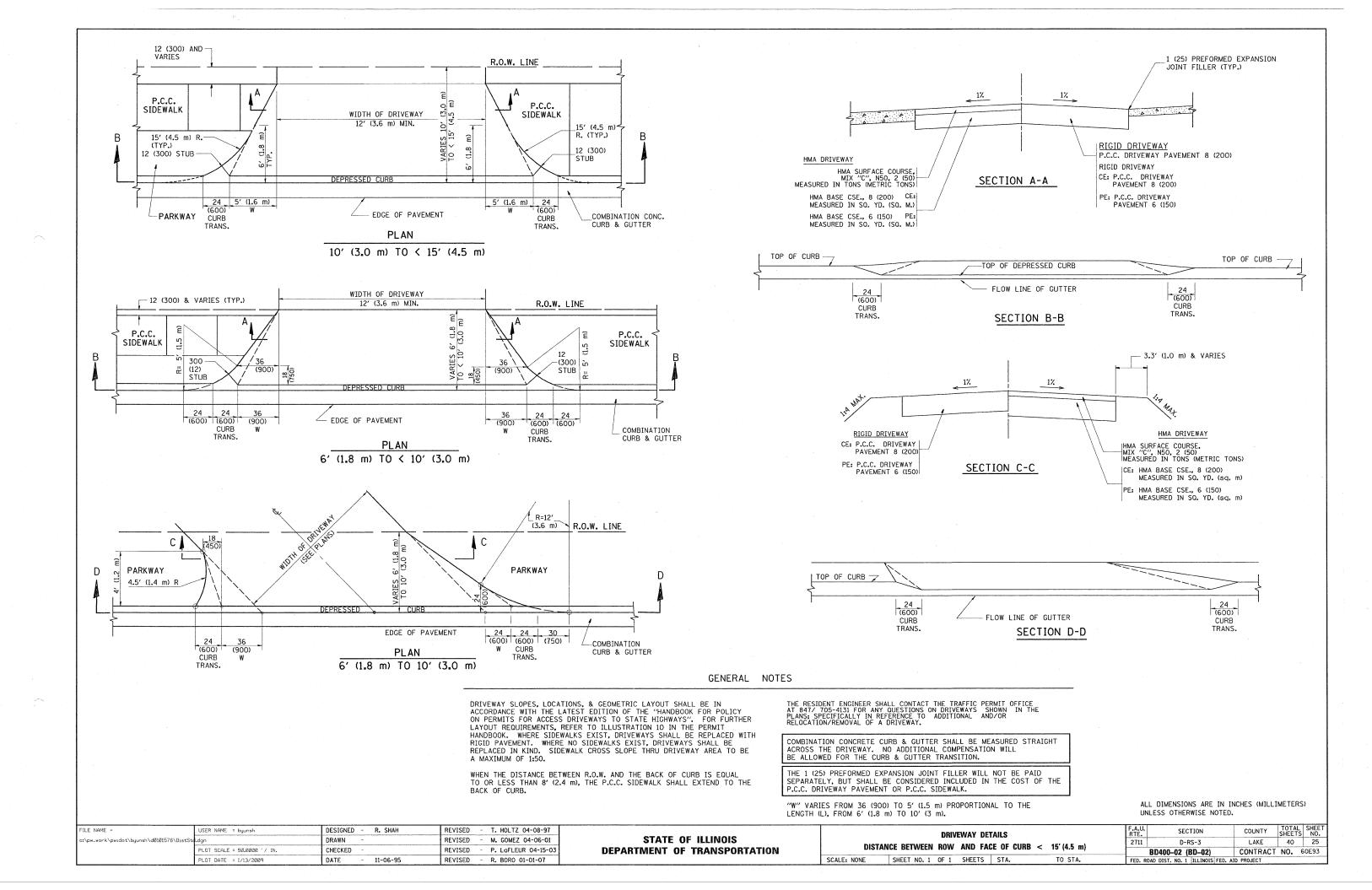
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

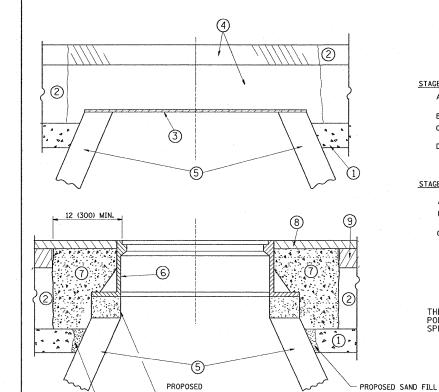
SCALE: N

FILE NAME =	USER NAME = byumsh	DESIGNED	-	R. SHAH	REVISED	_	М.	GOMEZ 04-06-01
c:\pw_work\pwidot\byunsh\dØ101576\DistSto	.dgn	DRAWN	-		 REVISED	-	Ρ.	LaFLUER 04-15-03
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	~		REVISED	-	R.	BORO 01-01-07
	PLOT DATE = 1/13/2009	DATE	-	11-04-95	REVISED	-	R.	BORO 06-11-08

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
AND FACE OF CURB & EDGE OF SHOULDER > = 15'(4.5 m)	2711	D-RS-3	LAKE	40	24
AND FACE OF CORD & EDGE OF SHOULDER > = 15 (4.5 III)		BD0156-07 (BD-01)	CONTRACT	NO.	60E93
NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		





BRICK, MORTAR, OR CONC. ADJUSTING RINGS

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 IN ACCORDANCE WITH ARTICLE 103.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

PROPOSED

SAND FILL

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAYEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM $1^{1}\!\!/_{2}$ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 3 36 (900) DIAMETER METAL PLATE
- 8 PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX 5 EXISTING STRUCTURE
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

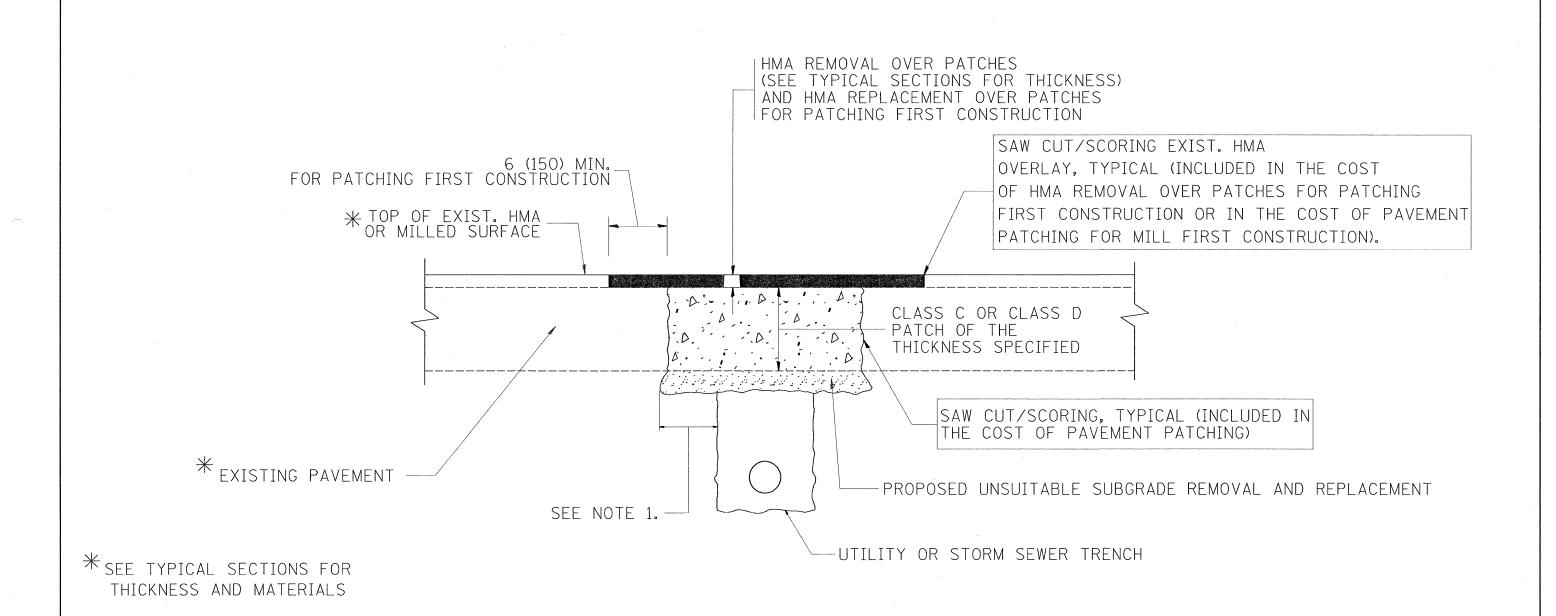
THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

FILE NAME =	USER NAME = byunsh	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95		DET	TAILS FOR	F.A.U.	SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\byunsh\d010	Ø1576\DistStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS				D-RS-3	LAKE	40	26
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04	DEPARTMENT OF TRANSPORTATION	FRAMES AND LIDS A	ADJUSTMENT WITH MILLING		BD600-03 (BD-8)	CONTRACT	NO. 6	DE93
·	PLOT DATE = 1/13/2009	DATE - 10-25-94	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1	SHEETS STA. TO STA.	FED. I	ROAD DIST. NO. 1 ILLINOIS FED.			



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".

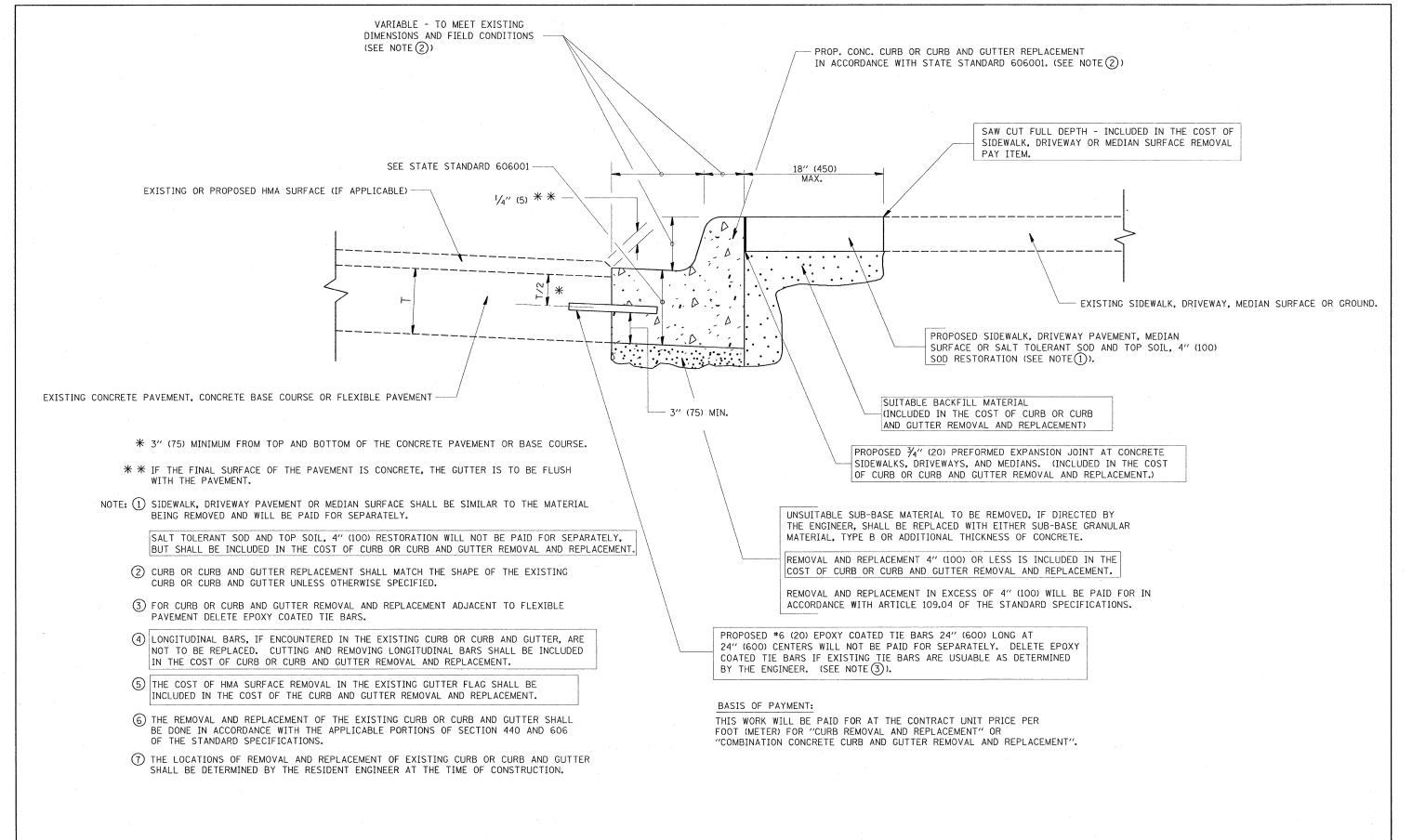
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 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)

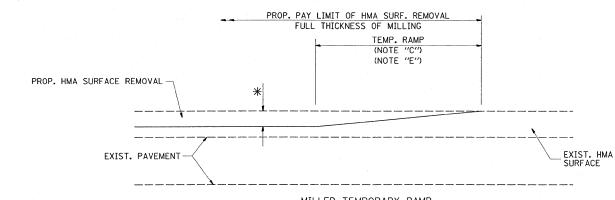
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

FILE NAME =	USER NAME = byunsh	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27		PAVEMENT PATCHING FOR	F.A.U. SECTION	COUNTY TOTAL SI
c:\pw_work\pwidot\byunsh\d0101576\Dist	dgn	DRAWN -	REVISED - R. BORO 01-01-0		UNAA CUIDFACED DAVEMENT	2711 D-RS-3	LAKE 40
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 60E
	PLOT DATE = 1/13/2009	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		. AID PROJECT



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

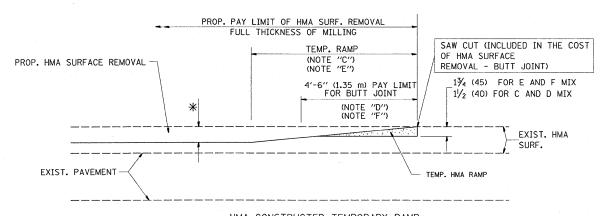
FILE NAME =	USER NAME = byunsh	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	F.A.U. SECTION	COUNTY TOTAL SHEET NO.
c:\pw_work\pwidot\byunsh\dØ101576\DistStd	.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS	REMOVAL AND REPLACEMENT	2711 D-RS-3	LAKE 40 28
	PLOT SCALE = 50.00000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		BD600-06 (BD-24)	CONTRACT NO. 60E93
	PLOT DATE = 1/13/2009	DATE - 03-11-94	REVISED - R. BORO 01-01-07		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

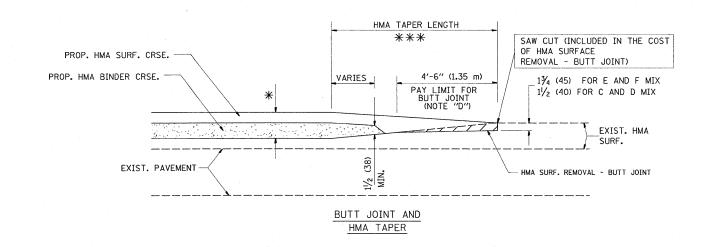


HMA CONSTRUCTED TEMPORARY RAMP

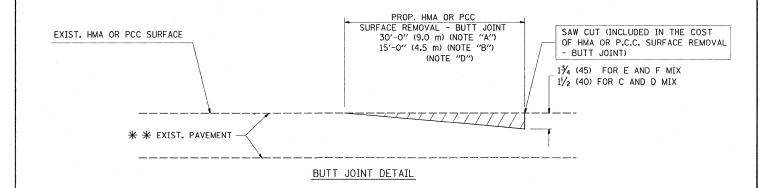
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

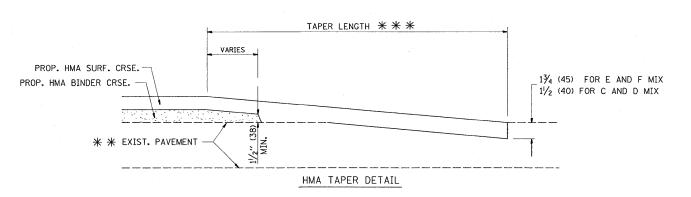
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

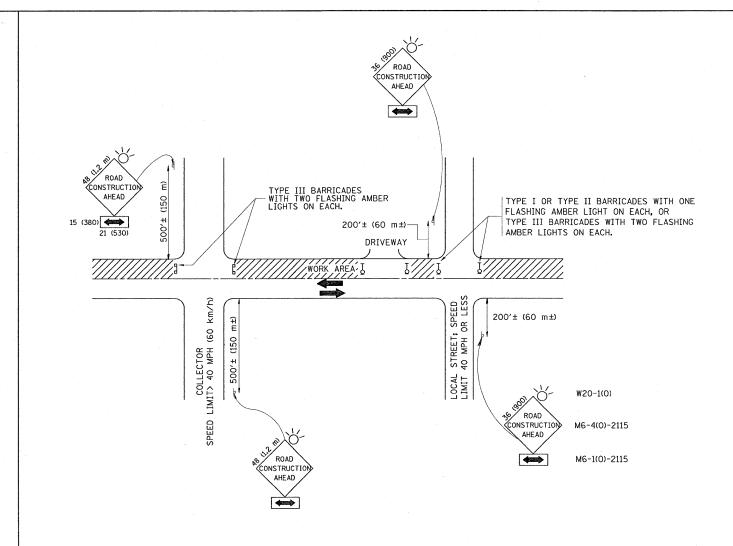
NOTES

- 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".

				f			
FILE NAME =	USER NAME = byunsh	DESIGNED - M. DE YONG	REVISED ~ R. SHAH 10-25-94		BUTT JOINT AND	F.A.U. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\byunsh\dØl01576\DistSto	.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS		2711 D-RS-3	LAKE 40 29
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01	DEPARTMENT OF TRANSPORTATION	HMA TAPER DETAILS	BD400-05 BD32	CONTRACT NO. 60E93
	PLOT DATE = 1/13/2009	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	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:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 36×36 (900 \times 900) 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:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

SCALE: NONE

- 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

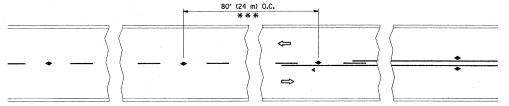
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL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

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

FILE NAME =	USER NAME = byumsh	DESIGNED -	LHA	REVISED	- J. OBERLE 10-18-95
c:\pw_work\pwidot\byunsh\d0101576\DistSto	l.dgn	DRAWN -		REVISED	- A. HOUSEH 03-06-96
· ·	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	-	REVISED	- A. HOUSEH 10-15-96
	PLOT DATE = 1/13/2009	DATE -	06-89	REVISED	-T. RAMMACHER 01-06-00

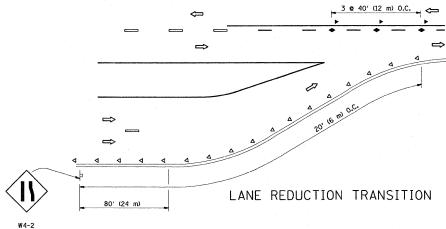
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

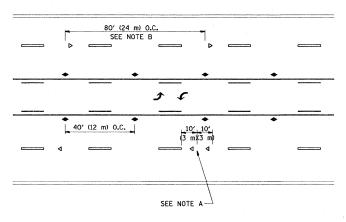
TR	AFFI	C	CON	TR	OL AND	PROTEC	TION	FOR			
SIDE	ROA	D	S, IN	TEF	SECTION	IS, AND	DRIV	EWAYS			
 SHEET	NO.	1	OF	1	SHEETS	STA.			то	STA.	



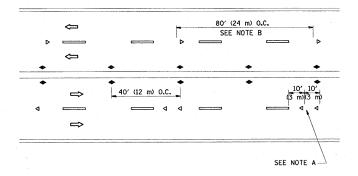
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

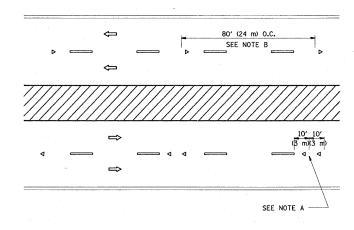




TWO-WAY LEFT TURN



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.

LANE MARKER NOTES

- 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.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

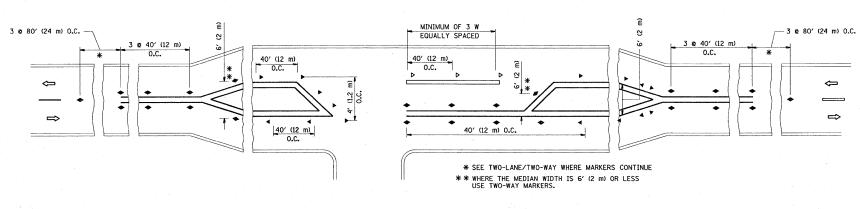
---- YELLOW STRIPE

WHITE STRIPE

- ◆ ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

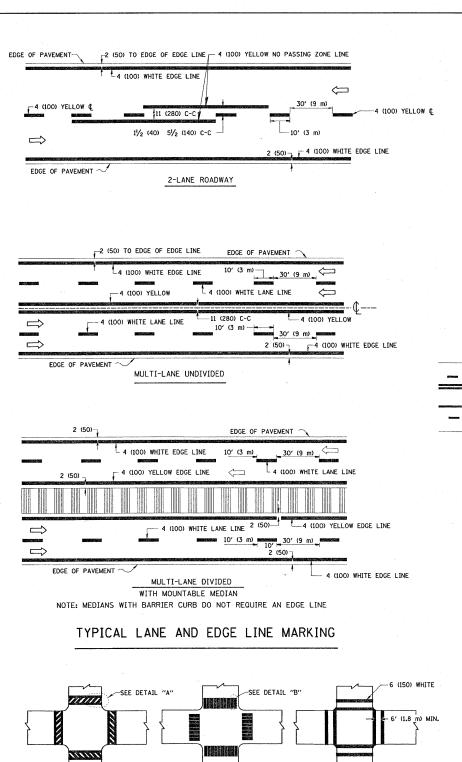
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS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

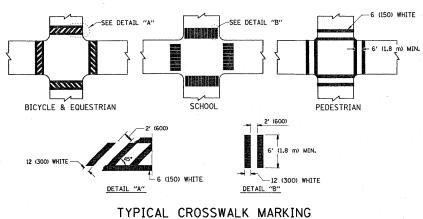


LEFT TURN

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

FILE NAME =	USER NAME = byunsh	DESIGNED -	REVISED - T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS	F.A.U. SECTI	ON COUNTY TOTAL SHEET NO.
c:\pw_work\pwidot\byunsh\dØ101576\DistStd	.dgn	DRAWN -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	2711 D-RS-	-3 LAKE 40 31
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEINENT WARRENS (SNUVV-PLUVV RESISTANT)	TC-11	CONTRACT NO. 60E93
	PLOT DATE = 1/13/2009	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 IL	LLINOIS FED. AID PROJECT





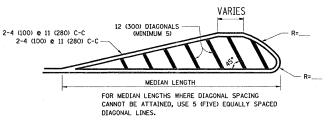
2-4 (100) YELLOW @ 11 (280) C-C

NO DIAGONALS

4' (1.2 m) OUTSIDE TO OUTSIDE OF LINES

2-4 (100) YELLOW @ 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

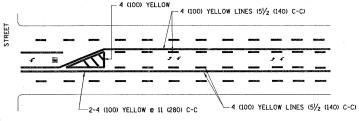


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))

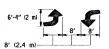
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))

150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

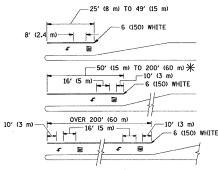


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

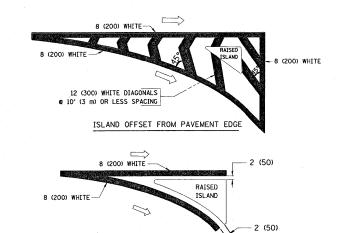


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) ML_I^V AREA = 20.8 SQ. FT. (1.9 m²)

* 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



TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

	·			
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 UNDIVEDED 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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
'	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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; "RR" 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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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 (0VER 45MPH (70 km/h))

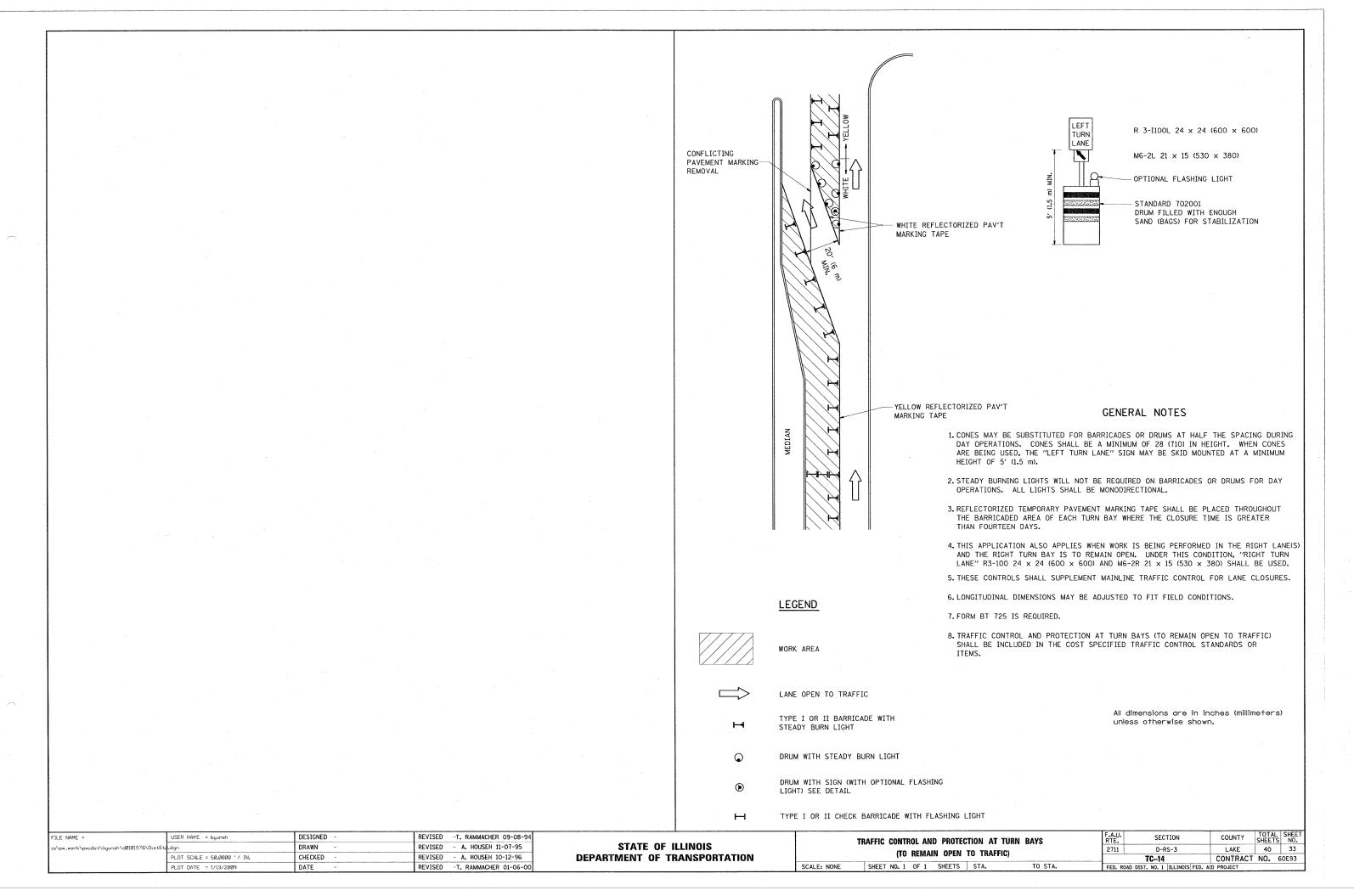
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

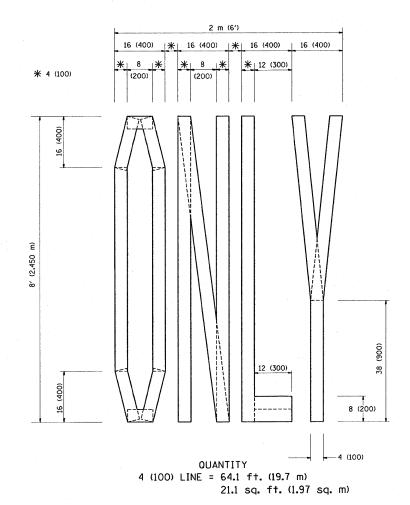
All dimensions are in inches (millimeters) unless otherwise shown.

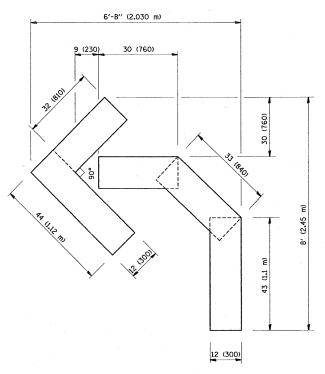
FILE NAME =	USER NAME = byunsh	DESIGNED	-	EVERS	REVISED	-T.	RAMMACHER 10-27-94
o:\pw_work\pwidot\byunsh\dØ101576\DistSto	ldgn	DRAWN	-		REVISED	~A.	HOUSEH 10-09-96
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-		REVISED	- A.	HOUSEH 10-17-96
	PLOT DATE = 1/13/2009	DATE	-	03-19-90	REVISED	- T.	RAMMACHER 01-06-00
							

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

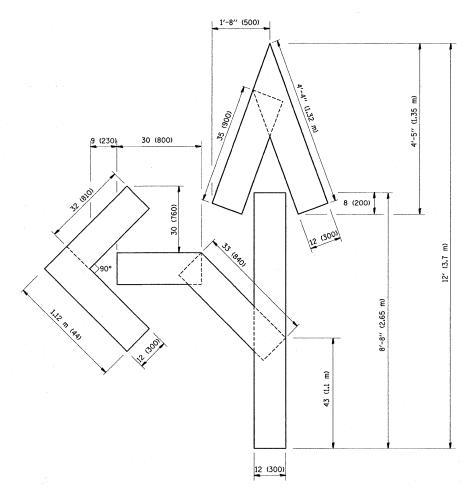
DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS	2711	D-RS-3	LAKE	40	32
I I FICAL FAVLUILIVI MAIININGS		TC-13	CONTRACT	NO.	50E93
CALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	OAD DIST, NO. 1 ILLINOIS FED. A	ID PROJECT		







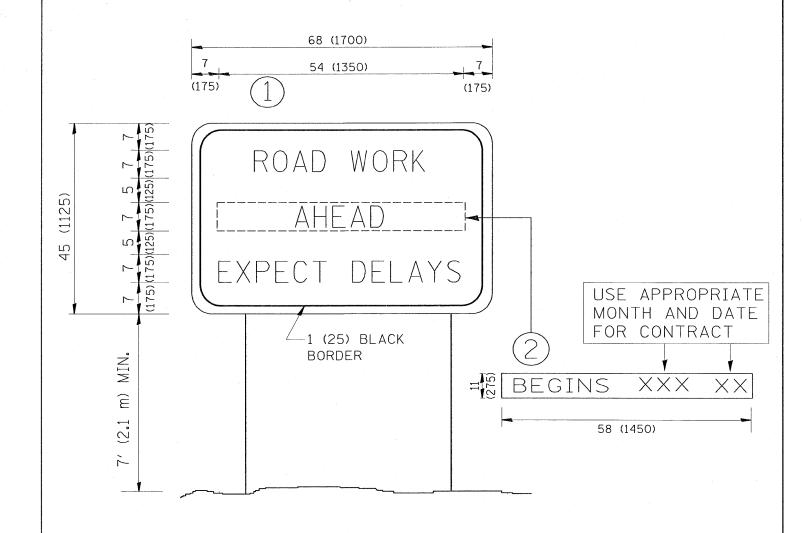
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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

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

FILE NAME =	USER NAME = byunsh	DESIGNED -	REVISED -T. RAMMACHER 06-05-96		PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.U. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\byunsh\dØ101576\DistStc	dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS		2711 D-RS-3	LAKE 40 34
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION	FOR TRAFFIC STAGING	TC-16	CONTRACT NO. 60E93
	PLOT DATE = 1/13/2009	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

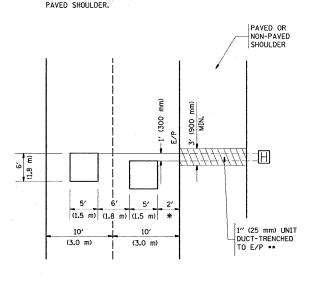


NOTES:

- 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.

Ī	FILE NAME =	USER NAME = byunsh	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
- 1	c:\pw_work\pwidot\byunsh\d0101576\DistSto	.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				2711	D-RS-3	LAKE	40	35
- 1		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN			TC-22	CONTRACT	Γ NO. /	0E93
- 1		PLOT DATE = 1/13/2009	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIS	T. NO. 1 ILLINOIS FED. A	D PROJECT		

LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3 1900 mm) X WIDTH OF



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

JSER NAME = buunsh

PLOT SCALE = 50.00000 '/ IN.

PLOT DATE = 1/13/2009

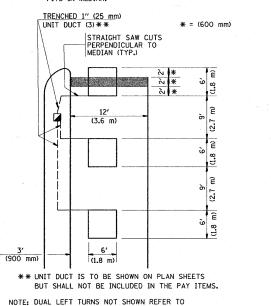
* = (600 mm)

FILE NAME =

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

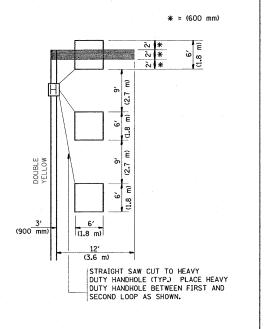
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

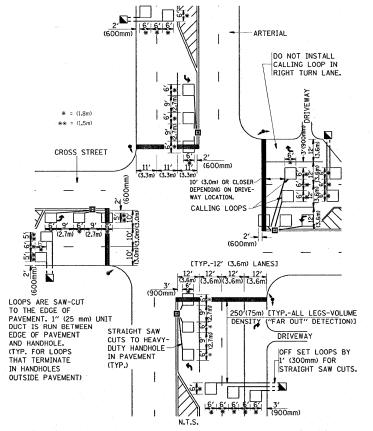


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMEN

SCALE: NONE

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

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



DETAIL 1

N.T.S.

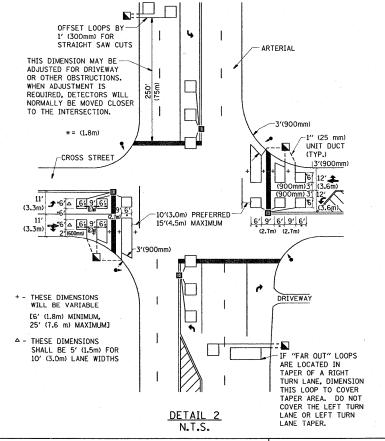
DESIGNED

CHECKED

R.K.F.

DRAWN

DATE



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 <u>ALL</u> 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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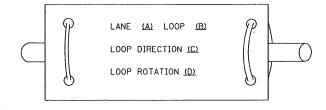
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DIS	TRIC	T	1 –	DET	ECTOR L	OOP INSTALLATIO	N	
DETAILS FOR ROADWAY RESURFACING									
	SHEET	NO.	1	OF	1	SHEETS	STA.	TO	STA.

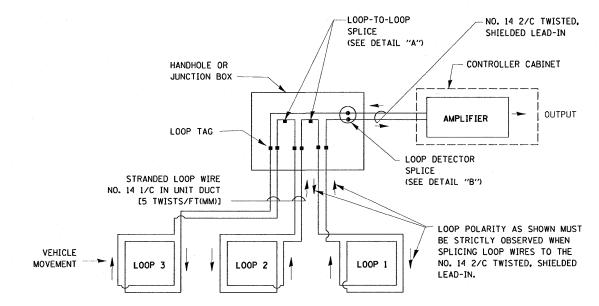
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT 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

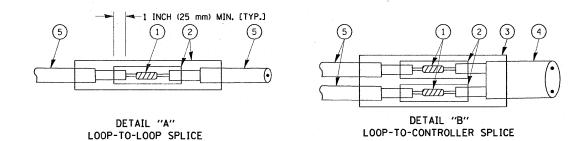


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



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.

SCALE: NONE

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

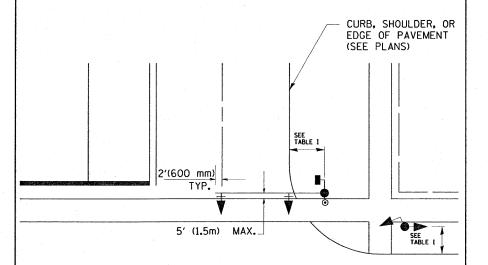
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	PLOT DATE = 1/13/2009	DATE	-	05-30-00	REVISED	-

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

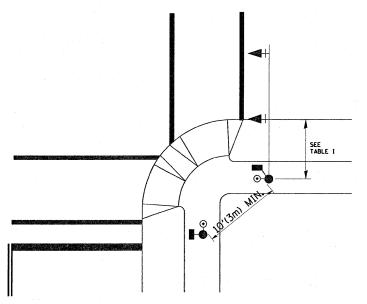
								ı
DISTRICT ONE					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				2711	D-RS-3	LAKE	40	37
STANDARD TRAFFIC SIGNAL DESIGN DETAILS					TS-05	CONTRACT	NO. 6	60E93
Ε	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m)
 ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

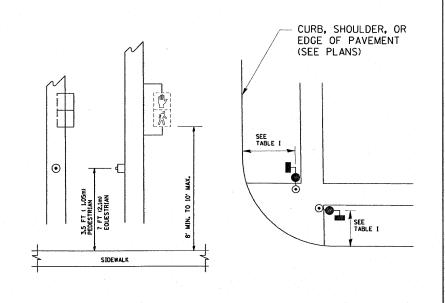


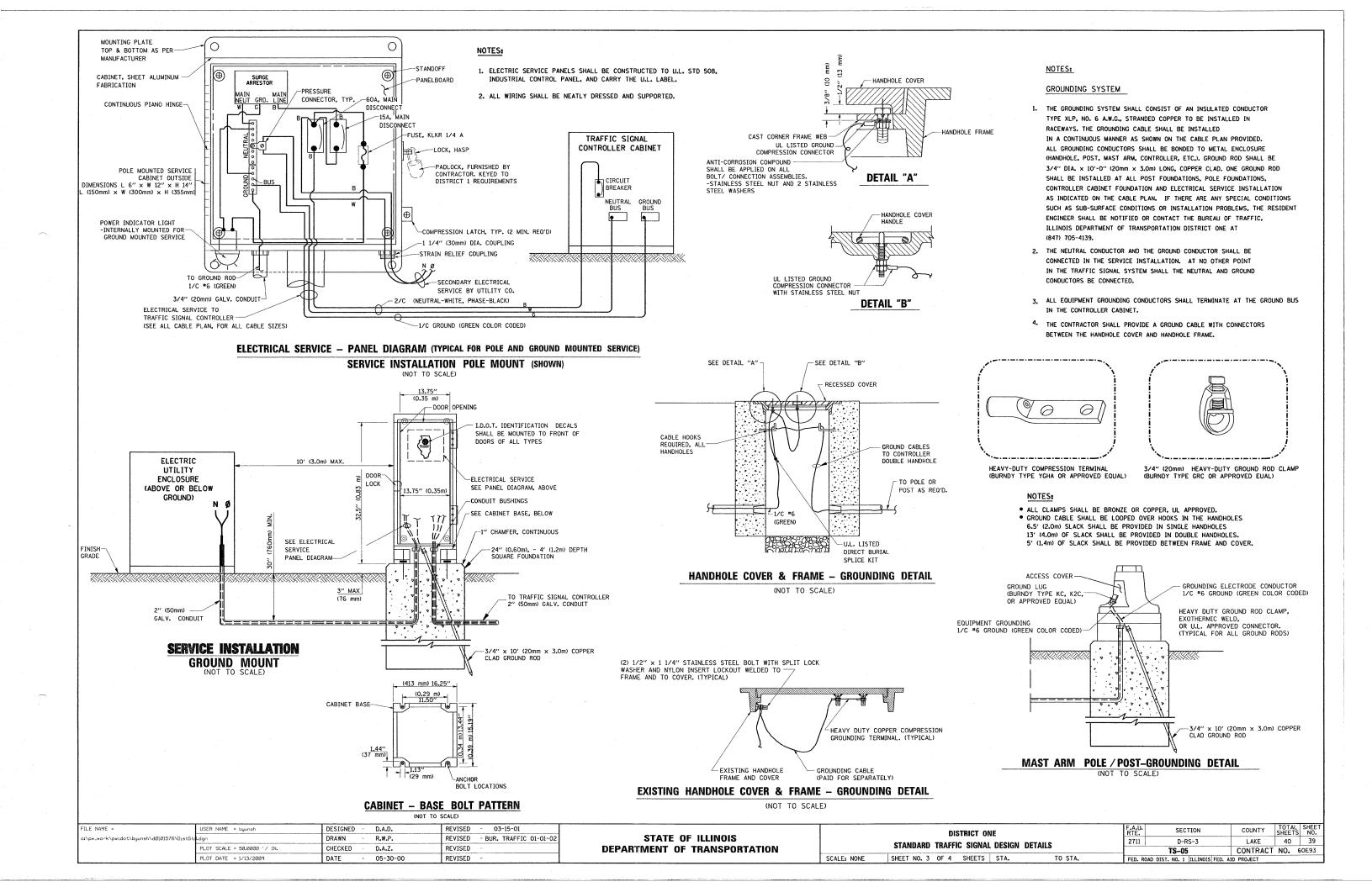
TABLE I

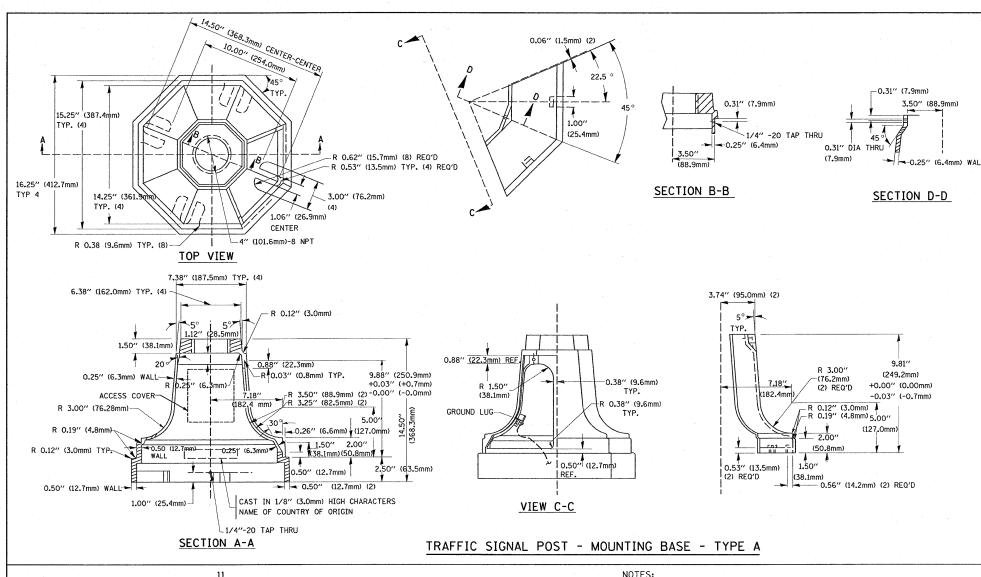
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)				
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)				
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)				
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)				
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1				

FILE NAME =	USER NAME = byumsh	DESIGNED	-	D.A.D.	REVISED	- BUR. TRAFFIC 01-0	1-02
c:\pw_work\pwidot\byunsh\dØ101576\DistSta	l.dgn	DRAWN	-	R.W.P.	REVISED	-	
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-	D.A.Z.	REVISED	-	
	PLOT DATE = 1/13/2009	DATE	-		REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DISTRICT ONE							
	STANDARD	TRAFFIC SIGNAL DESIGN	DETAILS					
SCALE: NONE	SHEET NO. 2	OF 4 SHEETS STA.	TO ST					





OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
LAMP HOLDER AND COVER
OUTLET BOX COVER
RUBBER COVER GASKET

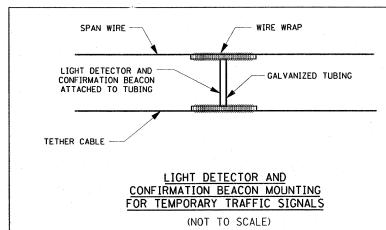
DETECTOR UNIT
POST CAP [18 FT. (5.4 m) POST MIN.]

REDUCING BUSHING

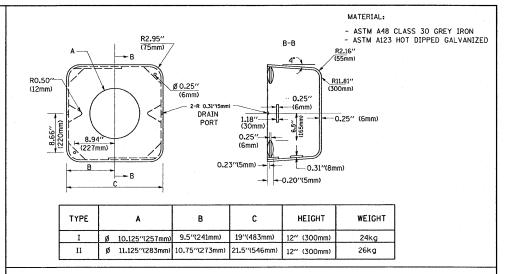
4"(19 mm) CLOSE NIPPL 14"(19 mm) LOCKNUT 14"(19 mm) HOLE PLUG SADDLE BRACKET - GALV PAR 38 LAMP

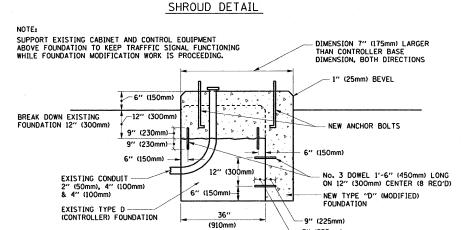
8-3-93

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A $\frac{1}{2}$ 4"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

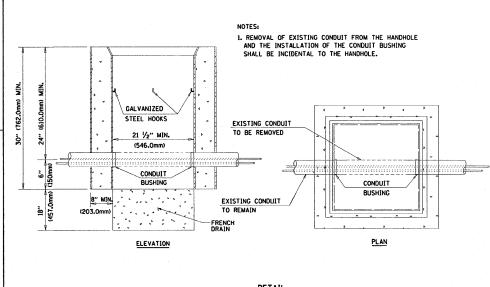


SCALE: NONE





MODIFY EXISTING TYPE "D" FOUNDATION (NOT TO SCALE)



HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = byonsh	DESIGNED		D.A.D.	REVISED	- BUR.TRAFFIC 03-15-01
c:\pw_work\pwidot\byunsh\d0101576\DistSt	Ldgn	DRAWN	-	R.W.P.	REVISED	- BUR.TRAFFIC 11-12-01
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-	D.A.Z.	REVISED	- BUR.TRAFFIC 01-01-02
	PLOT DATE = 1/13/2009	DATE	-	05-30-00	REVISED	-

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

POST CAP MOUNT

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE Standard traffic signal design details						F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						2711	D-RS-3	LAKE	40	40
						TS-05		CONTRACT	NO. 6	S0E93
SHEET	NO. 4	OF 4	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT		