

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62414		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

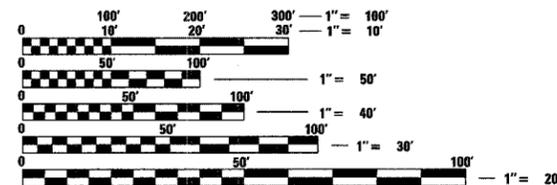
F.A.U. 2710 (DES PLAINES RIVER ROAD)
SECTION 3222 RS-1
FOSTER AVENUE TO 1ST AVENUE (IL 171)
RESURFACING (3P)
PROJECT: ACM-2710(009)
COOK COUNTY
C-91-116-02

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED
WITHIN THE VILLAGES OF SCHILLER PARK,
FRANKLIN PARK AND RIVER GROVE

TRAFFIC DATA

2005 ADT - 27,400
POSTED SPEED LIMIT - 40 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.

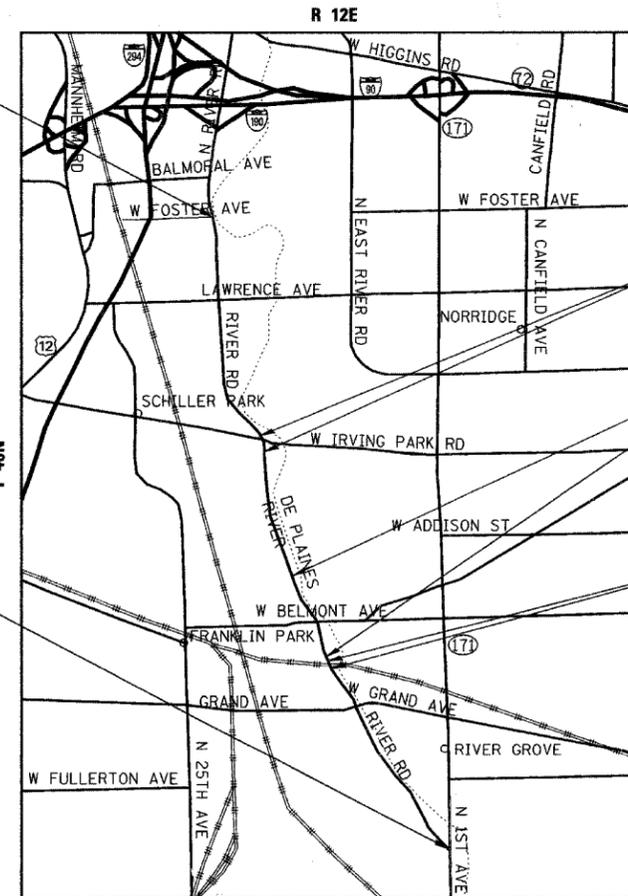
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 :: (773) 775-4009



END IMPROVEMENT
STA. 328 + 58.00

BEGIN IMPROVEMENT
STA. 105 + 60.00

STA. 254 + 21.70
OMISSION
STA. 248 + 58.60

STA. 198 + 26.00
OMISSION
STA. 178 + 20.00

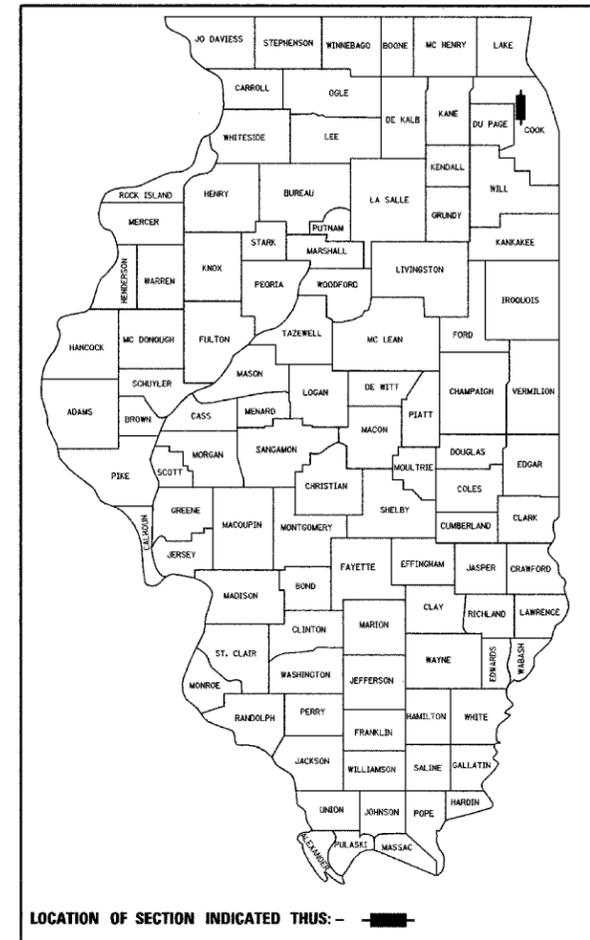
STA. 174 + 24.28
OMISSION
STA. 173 + 32.57

LEYDEN TOWNSHIP
LOCATION MAP

1" = 2500'

GROSS LENGTH OF PROJECT = 22,298 FT = 4.223 MI.
NET LENGTH OF PROJECT = 19,637 FT = 3.719 MI.

D-91-202-01



LOCATION OF SECTION INDICATED THIS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 1, 2008

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

May 9, 2008

Eric E. Harnick
SENIOR ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 2008

Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



DATE: 4/1/2008
SEAL EXPIRES: 11/30/2008

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 62414

DISTRICT 1 DESIGN PLAN PREPARATION ENGINEER: K. ENG (847)705-4247

INDEX OF SHEETS

SHEET NO DESCRIPTION

- 1 COVER SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
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- 14-20 DETECTOR LOOP REPLACEMENT PLANS
- 21 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
- 22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
- 23 CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
- 24 BUTT JOINT AND HMA TAPER DETAILS (BD-32)
- 25 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
- 26 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
- 27 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- 28 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
- 29 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
- 30 ARTERIAL ROAD INFORMATION SIGN (TC-22)
- 31 DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STATE STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 442201-03 CLASS C AND D PATCHES
- 604001-02 FRAME AND LIDS, TYPE 1
- 606001-03 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701606-05 URBAN LAND CLOSURE, MULTI LANE, 2W WITH MOUNTABLE MEDIAN
- 701701-05 URBAN LANE CLOSURE, MULTI LANE INTERSECTION
- 701901 TRAFFIC CONTROL DEVICES
- 780001-01 TYPICAL PAVEMENT MARKINGS

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 NOTIFICATIONS IS REQUIRED)
2. 10 FEET (3 METER) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB AND GUTTER AND MEDIANS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL.
6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
7. THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.004 TONS/SQ YD
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE	112 LBS/SQ YD/INCH
POLYMERIZED LEVELING BINDER (MACHINE METHOD)	105 LBS/SQ YD/INCH
8. THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISORS AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.
9. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS THE ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (773) 685-8386.
10. WHEN MILLED PAVEMENT IS OPEN IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2" (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1" (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3" (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 3:1 (H:V).
11. BUTT JOINTS WILL BE INSTALLED AT THE END OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
12. FOR PAVEMENT MARKING, REFER TO DISTRICT ONE TYPICAL MARKINGS FOR DETAILS SHOWN.
13. MATCH EXISTING PAVEMENT MARKINGS AT PROJECT AND OMISSION LIMITS.
14. A QUANTITY FOR LEVELING BINDER (HAND METHOD) HAS BEEN PROVIDED FOR USE AROUND HAND HOLES, PRIVATE UTILITY STRUCTURE FRAMES AND ANY OTHER STRUCTURE FRAMES THAT ARE NOT ABLE TO BE LOWERED UNDER THE ITEM "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)" AFTER GRINDING OF THE EXISITING PAVEMENT.

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CC Ciorba Group, Inc.
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 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = wlenoester	DESIGNED AL	REVISED -
PLOT SCALE = 1/8" = 1' IN.	DRAWN AL	REVISED -
PLOT DATE = 4/23/2008	CHECKED M.J.L.	REVISED -
	DATE 4/7/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

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

F.A.U. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 2
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62414	

(4-23-08)

Rev.

SUMMARY OF QUANTITIES				URBAN TOTAL QUANTITY 80% FED. 20% STATE	CONSTRUCTION TYPE CODE ROADWAY 1000-2A
CODE NO.	DESCRIPTION	UNIT			
20201006	GRADING AND SHAPING SHOULDERS	UNIT	100	100	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	100	100	
40600300	AGGREGATE (PRIME COAT)	TON	500	500	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	120	120	
40600535	LEVELING BINDER (HAND METHOD), N70	TON	10	10	
40600895	CONSTRUCTING TEST STRIP	EACH	2	2	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	680	680	
40600990	TEMPORARY RAMP	SQ YD	1,150	1,150	
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	2,630	2,630	
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	11,900	11,900	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	117,700	117,700	
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	600	600	
44002220	HOT-MIX ASPHALT SURFACE REMOVAL OVER PATCHES, 5"	SQ YD	9,110	9,110	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	2,670	2,670	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	2,160	2,160	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	3,090	3,090	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	410	410	
NP 55039700	STORM SEWERS TO BE CLEANED	FOOT	4,500	4,500	
60250200	CATCH BASIN TO BE ADJUSTED	EACH	5	5	
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	140	140	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	8,080	8,080	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,190	2,190	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	201,300	201,300	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	11,700	11,700	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1,890	1,890	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2,550	2,550	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	3,150	3,150	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	28,500	28,500	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	730	730	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	67,100	67,100	

SUMMARY OF QUANTITIES				URBAN TOTAL QUANTITY 80% FED. 20% STATE	CONSTRUCTION TYPE CODE ROADWAY 1000-2A
CODE NO.	DESCRIPTION	UNIT			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3,900	3,900	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	630	630	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	850	850	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1,050	1,050	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,800	1,800	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,710	1,710	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2,900	2,900	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	103	103	
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	4,780	4,780	
NP Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	140	140	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	

* 80074000 TRAINERS
 * DENOTES SPECIALTY ITEM
 NP= Non-Participating
 @ Y080

Hour 2000 2000

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CG
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USER NAME = mbelog	DESIGNED AL	REVISED -
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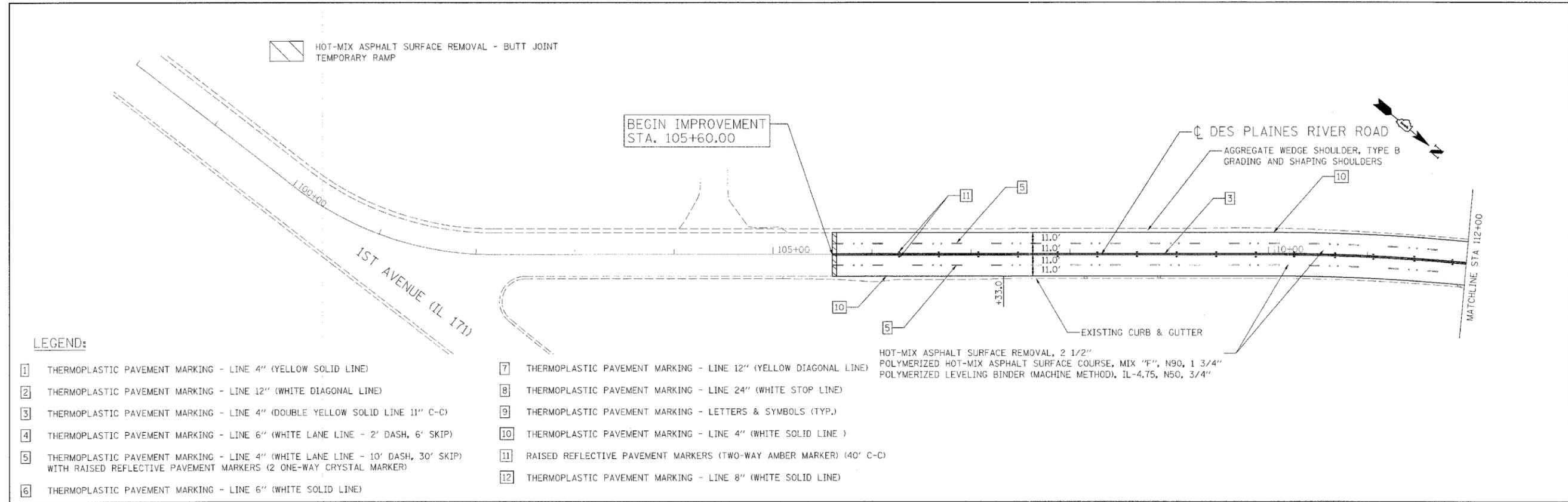
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
SUMMARY OF QUANTITIES

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

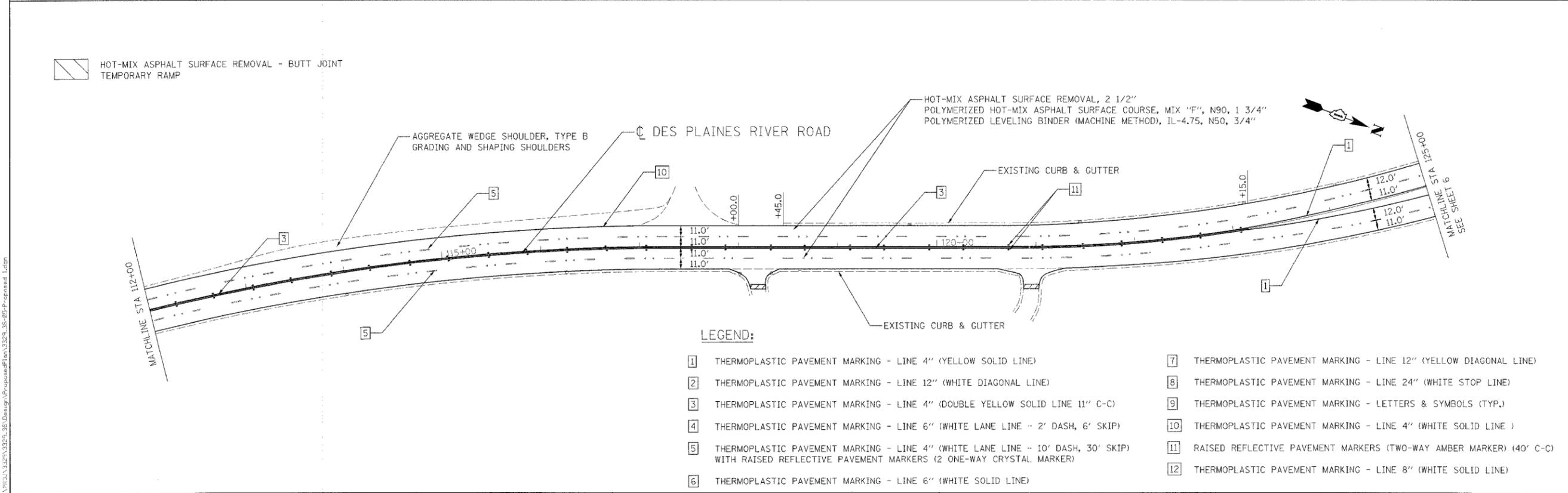
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	3
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62414	

Rev.



LEGEND:

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|--|--|
| <ul style="list-style-type: none"> 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) 2 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE) 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C) 4 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER) 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) | <ul style="list-style-type: none"> 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.) 10 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE) 11 RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C) 12 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) |
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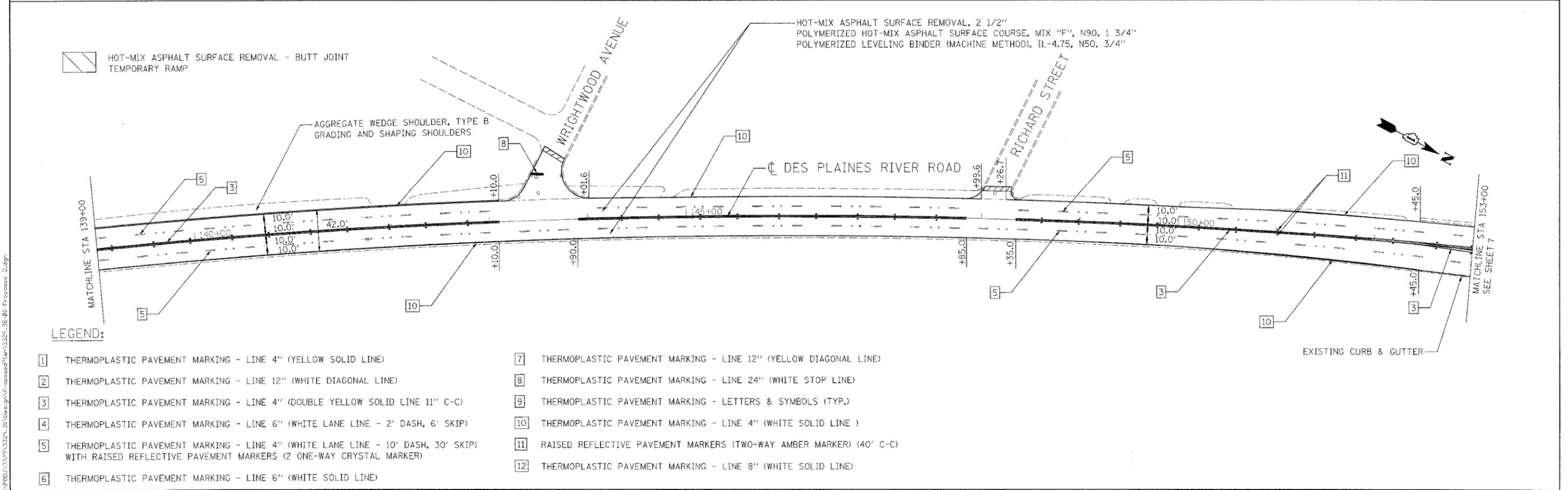
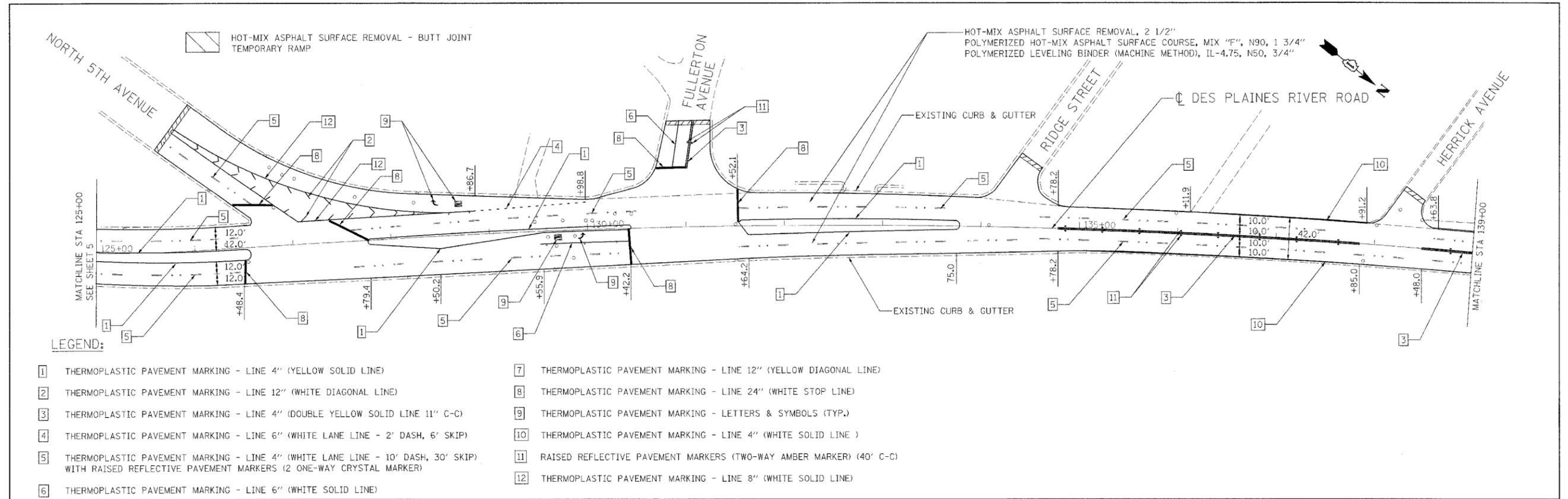
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DES PLAINES RIVER ROAD
 FOSTER AVENUE TO 1ST AVENUE (IL 171)
 PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

F.A.U. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62414	

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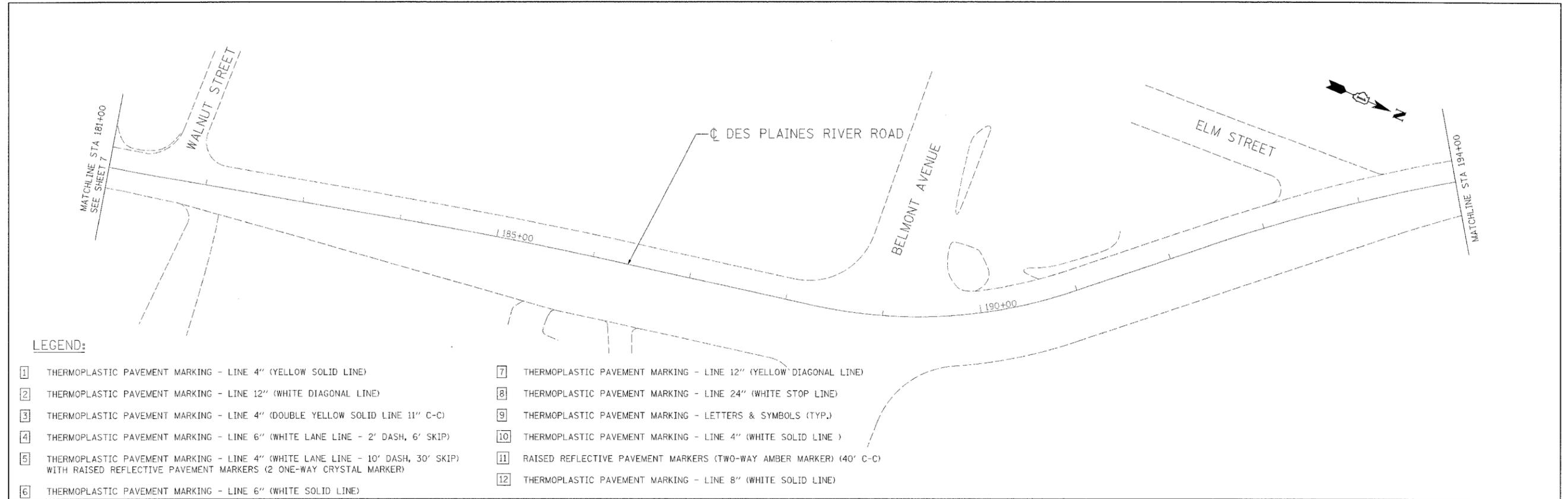
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
PROPOSED ROADWAY AND PAVEMENT MARKING PLAN

F.A.U. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 6
CONTRACT NO. 62414				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

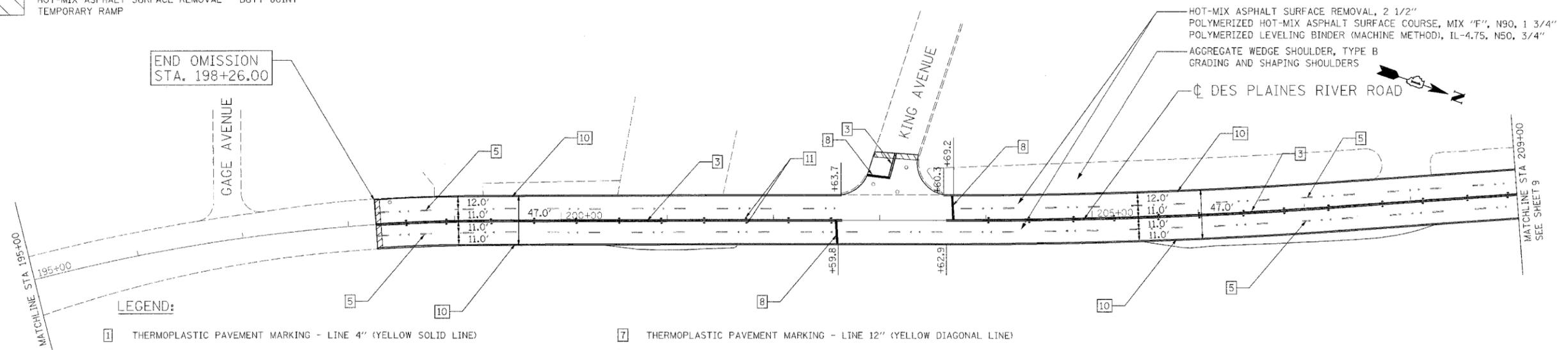
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LEGEND:

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| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) |
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| 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) | 12 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) |

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
 TEMPORARY RAMP



LEGEND:

- | | |
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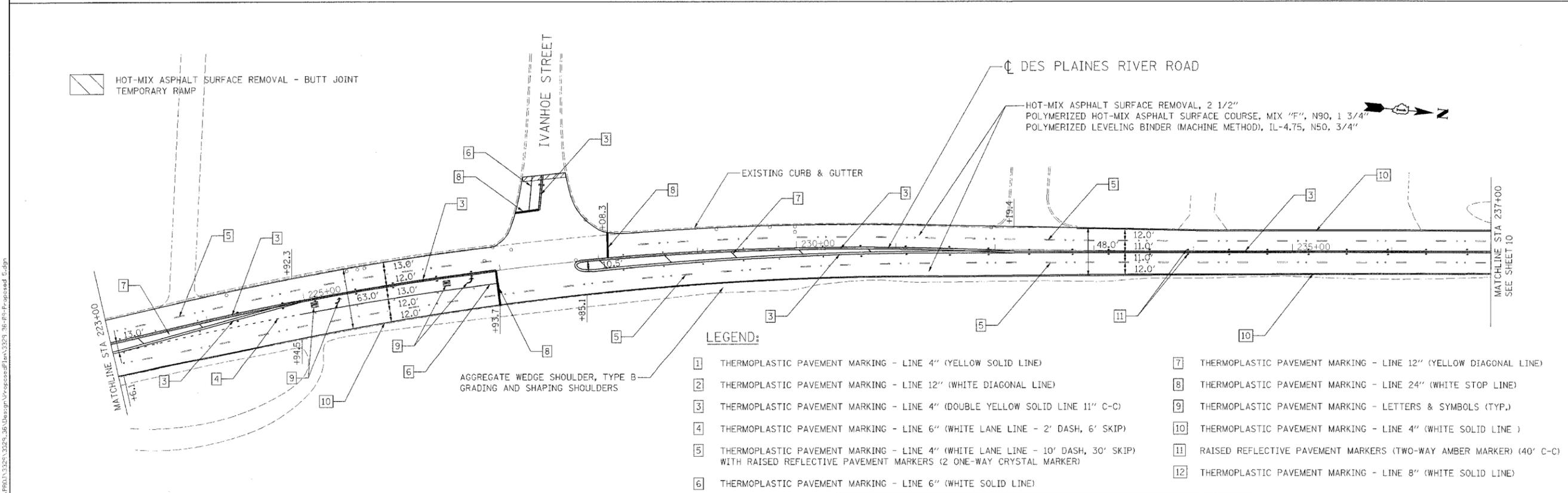
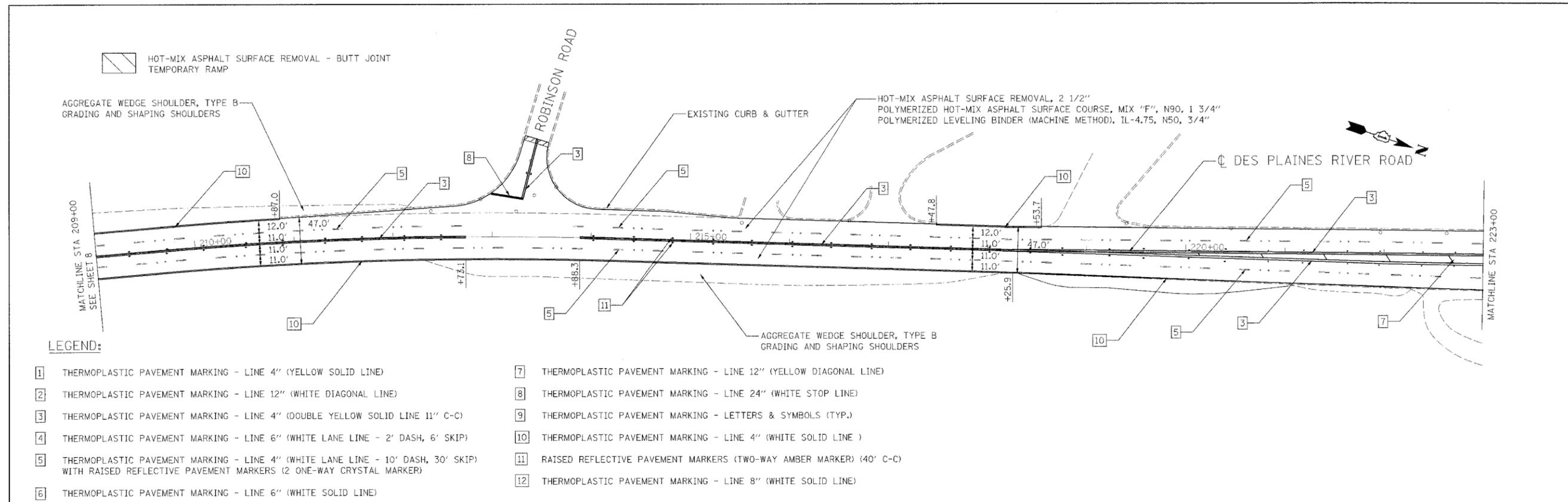
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USER NAME = mbelog	DESIGNED AL	REVISED -
PLOT SCALE = 50.0000' / 1"	DRAWN AL	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DES PLAINES RIVER ROAD
 FOSTER AVENUE TO 1ST AVENUE (IL 171)
 PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

F.A.U. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 8
CONTRACT NO. 62414				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



FULL NAME: N:\PROJ\3225\3225_36\Design\Proposed\Plan\3225_36-rfs-Proposed_6.dgn
 USER: rfb
 DATE: 4/7/2008

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USER NAME: rmbalog	DESIGNED: AL	REVISED: -
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	DATE: 4/7/2008	REVISED: -

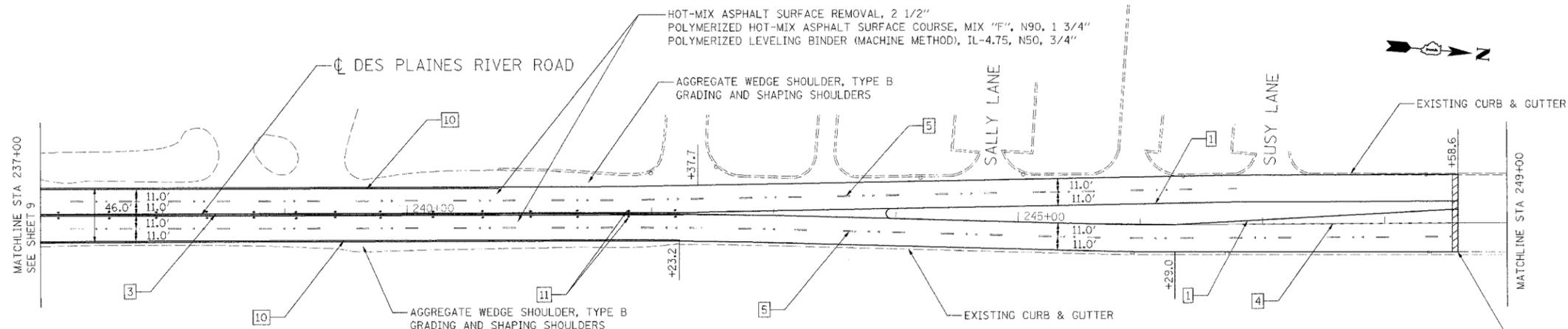
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
PROPOSED ROADWAY AND PAVEMENT MARKING PLAN

F.A.J. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
2710	3222 RS-1	COOK	31	9
FED. ROAD DIST. NO. - ILLINOIS			FED. AID PROJECT	

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

 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
TEMPORARY RAMP

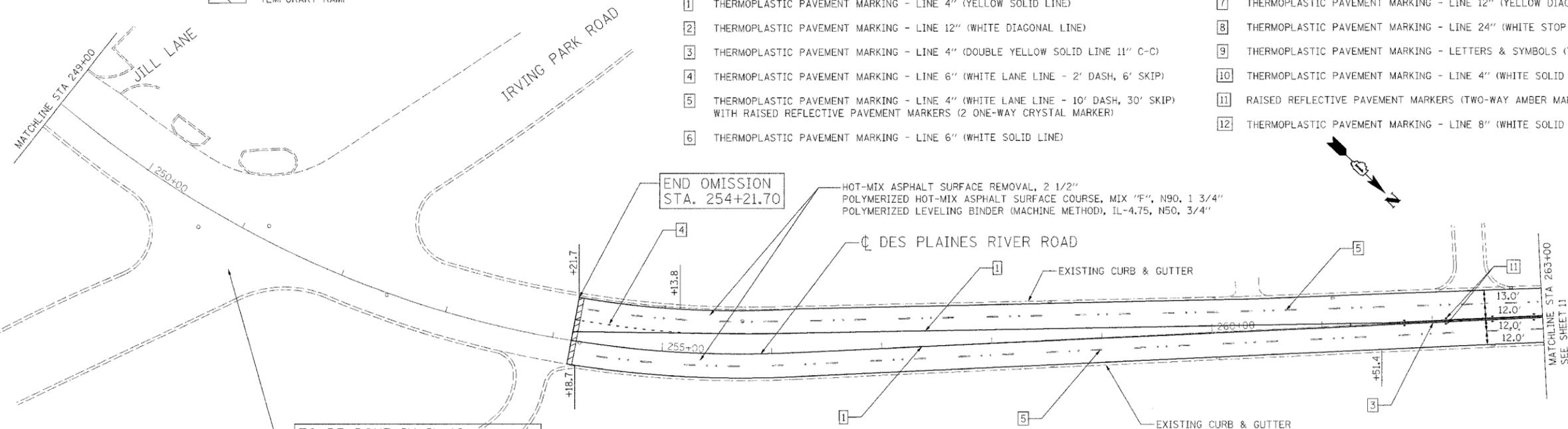


LEGEND:

- | | |
|--|--|
| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) |
| 2 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE) | 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) |
| 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C) | 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.) |
| 4 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | 10 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE) |
| 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER) | 11 RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C) |
| 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) | 12 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) |

BEGIN OMISSION
STA. 248+58.60

 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
TEMPORARY RAMP



LEGEND:

- | | |
|--|--|
| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) |
| 2 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE) | 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) |
| 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C) | 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.) |
| 4 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | 10 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE) |
| 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER) | 11 RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C) |
| 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) | 12 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) |

END OMISSION
STA. 254+21.70

TO BE DONE IN IL-19
RESURFACING CONTRACT 60C52

FILE NAME = N:\PROJ\1129\1129\3201_30\Design\Proposed\Plan\1129_30-19-P-Proposed_6.dgn



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5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

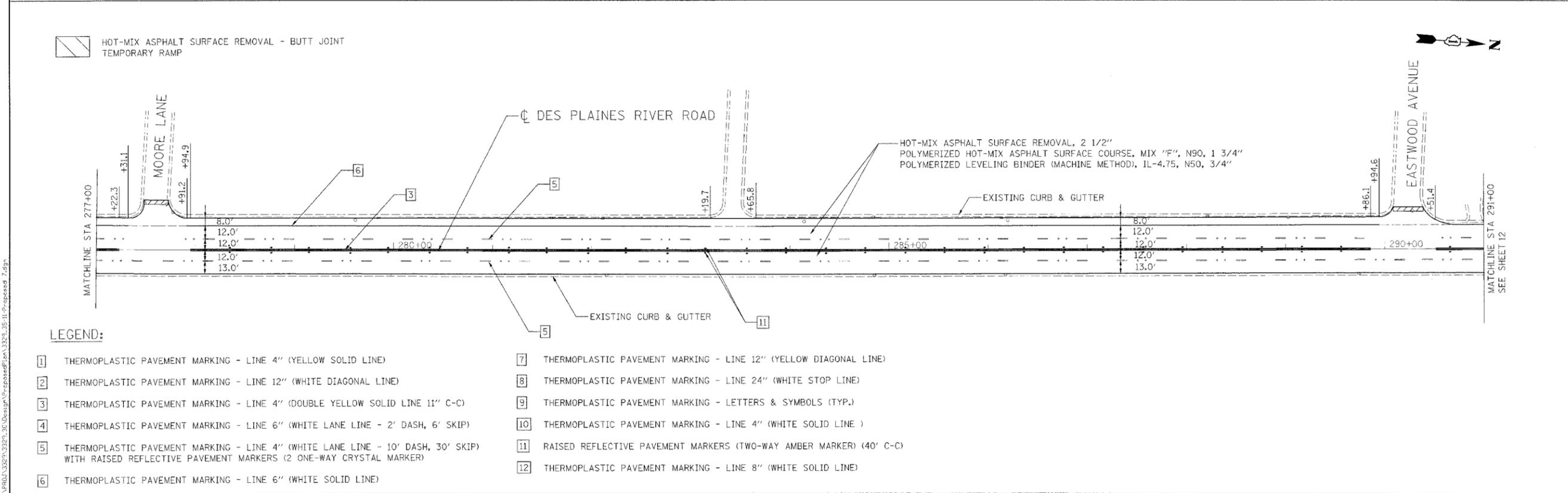
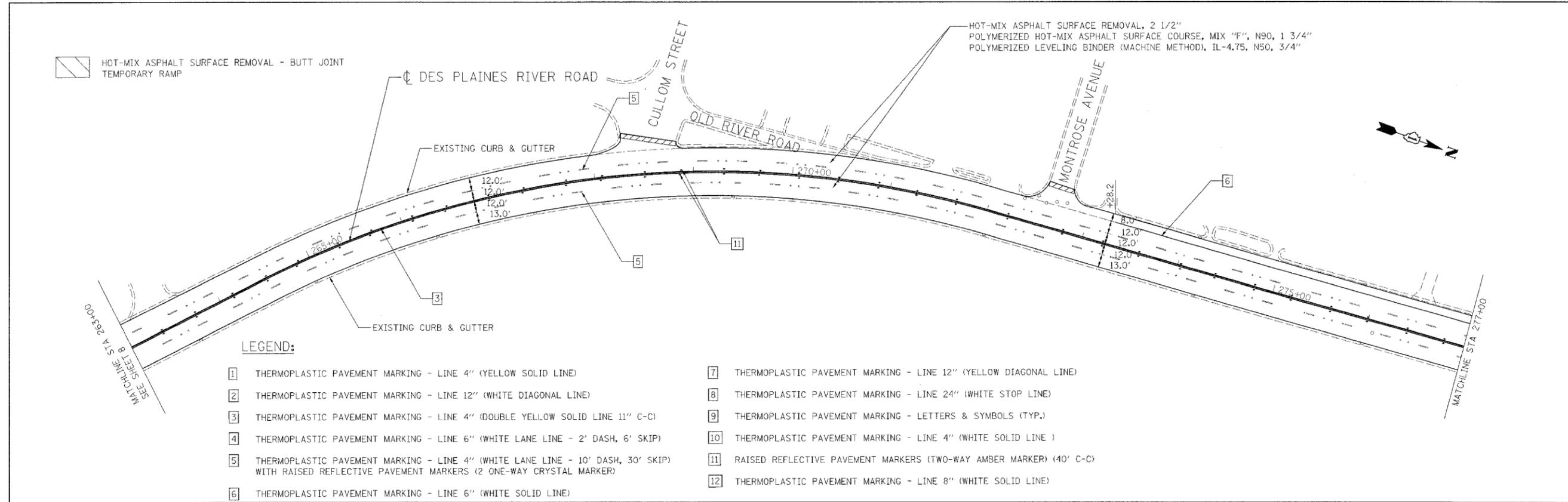
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CHECKED MJL	REVISED -
DATE 4/7/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

F.A.U. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 10
CONTRACT NO. 62414				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

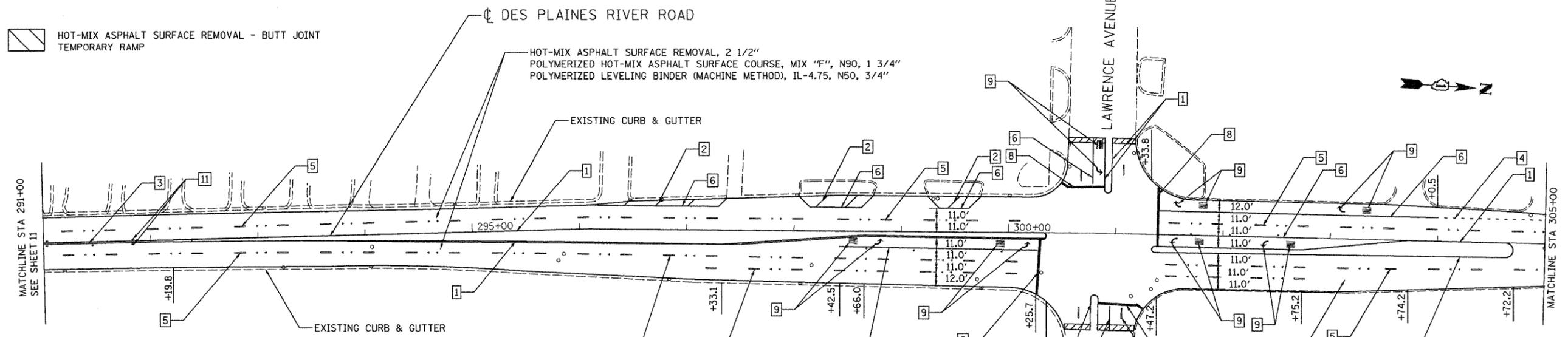
**DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

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

F.A.J. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 11
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62414	

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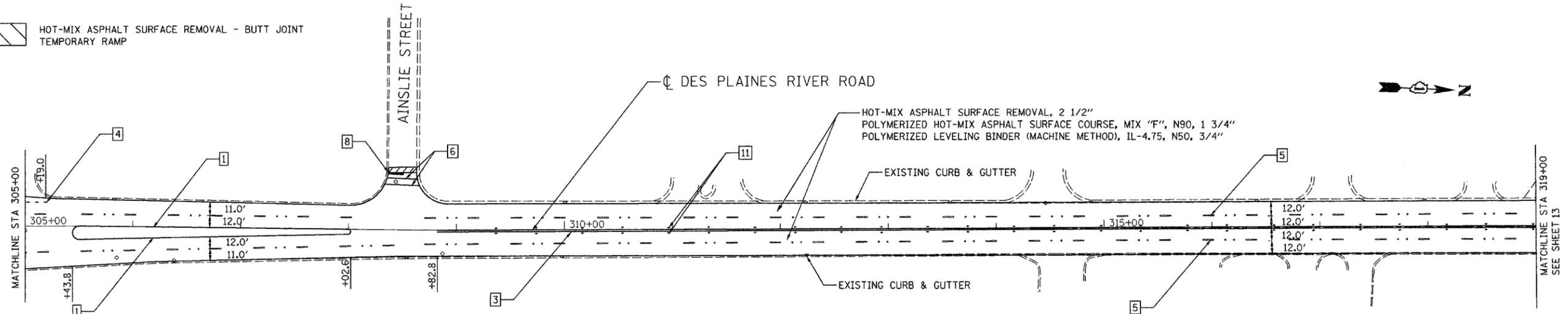
 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
TEMPORARY RAMP



LEGEND:

- | | |
|--|--|
| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) |
| 2 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE) | 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) |
| 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C) | 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.) |
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| 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) | 12 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) |

 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
TEMPORARY RAMP



LEGEND:

- | | |
|--|--|
| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) |
| 2 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE) | 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) |
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| 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) | 12 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) |

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Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
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USER NAME = wlancoaster	DESIGNED AL	REVISED -
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	DATE 4/7/2008	REVISED -

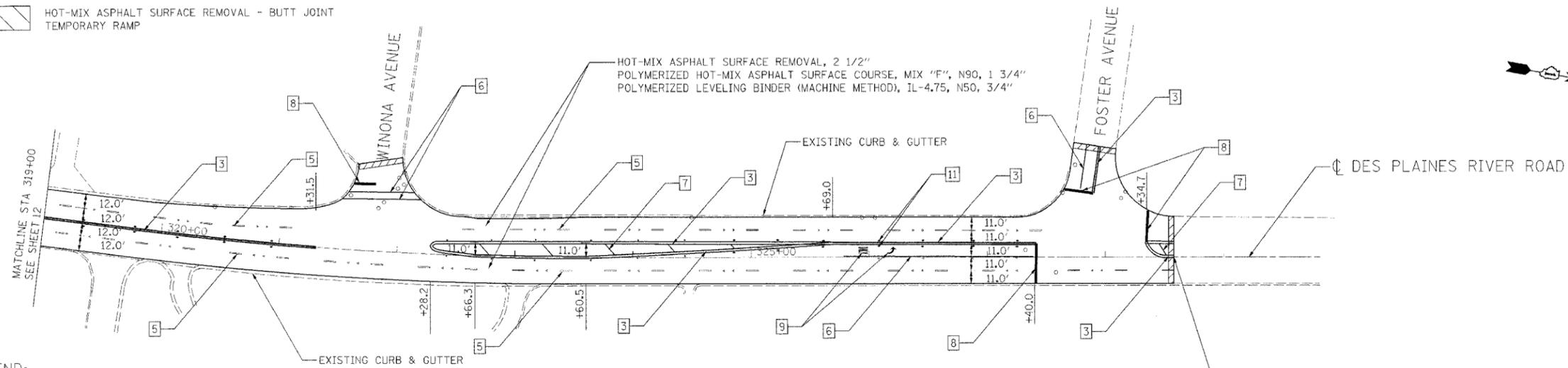
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

F.A.U. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 12
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62414	

(4-23-08)

 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
TEMPORARY RAMP



LEGEND:

- | | |
|---|---|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)</p> <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER)</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)</p> | <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)</p> <p>10 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)</p> <p>11 RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C)</p> <p>12 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)</p> |
|---|---|

END IMPROVEMENT
STA. 328+58.00

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5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

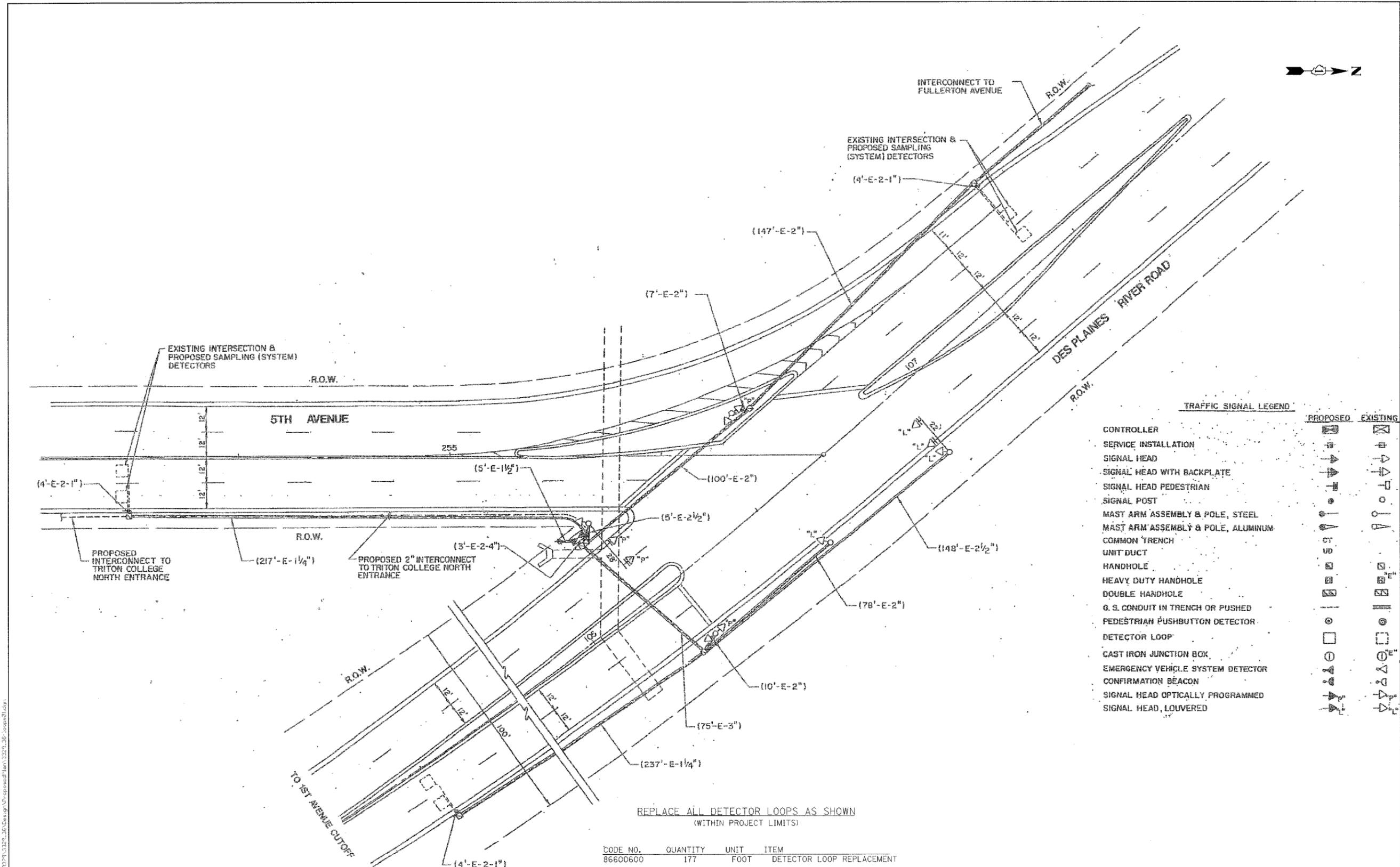
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	13
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62414	



TRAFFIC SIGNAL LEGEND		PROPOSED	EXISTING
CONTROLLER		☐	☐
SERVICE INSTALLATION		☐	☐
SIGNAL HEAD		☐	☐
SIGNAL HEAD WITH BACKPLATE		☐	☐
SIGNAL HEAD PEDESTRIAN		☐	☐
SIGNAL POST		☐	☐
MAST ARM ASSEMBLY & POLE, STEEL		☐	☐
MAST ARM ASSEMBLY & POLE, ALUMINUM		☐	☐
COMMON TRENCH		☐	☐
UNIT DUCT		☐	☐
HANDHOLE		☐	☐
HEAVY DUTY HANDHOLE		☐	☐
DOUBLE HANDHOLE		☐	☐
G. S. CONDUIT IN TRENCH OR PUSHED		☐	☐
PEDESTRIAN PUSHBUTTON DETECTOR		☐	☐
DETECTOR LOOP		☐	☐
CAST IRON JUNCTION BOX		☐	☐
EMERGENCY VEHICLE SYSTEM DETECTOR		☐	☐
CONFIRMATION BEACON		☐	☐
SIGNAL HEAD OPTICALLY PROGRAMMED		☐	☐
SIGNAL HEAD, LOUVERED		☐	☐

CODE NO.	QUANTITY	UNIT	ITEM
86600600	177	FOOT	DETECTOR LOOP REPLACEMENT

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Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
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 Tel. 773.775.4009 Fax 773.775.4014

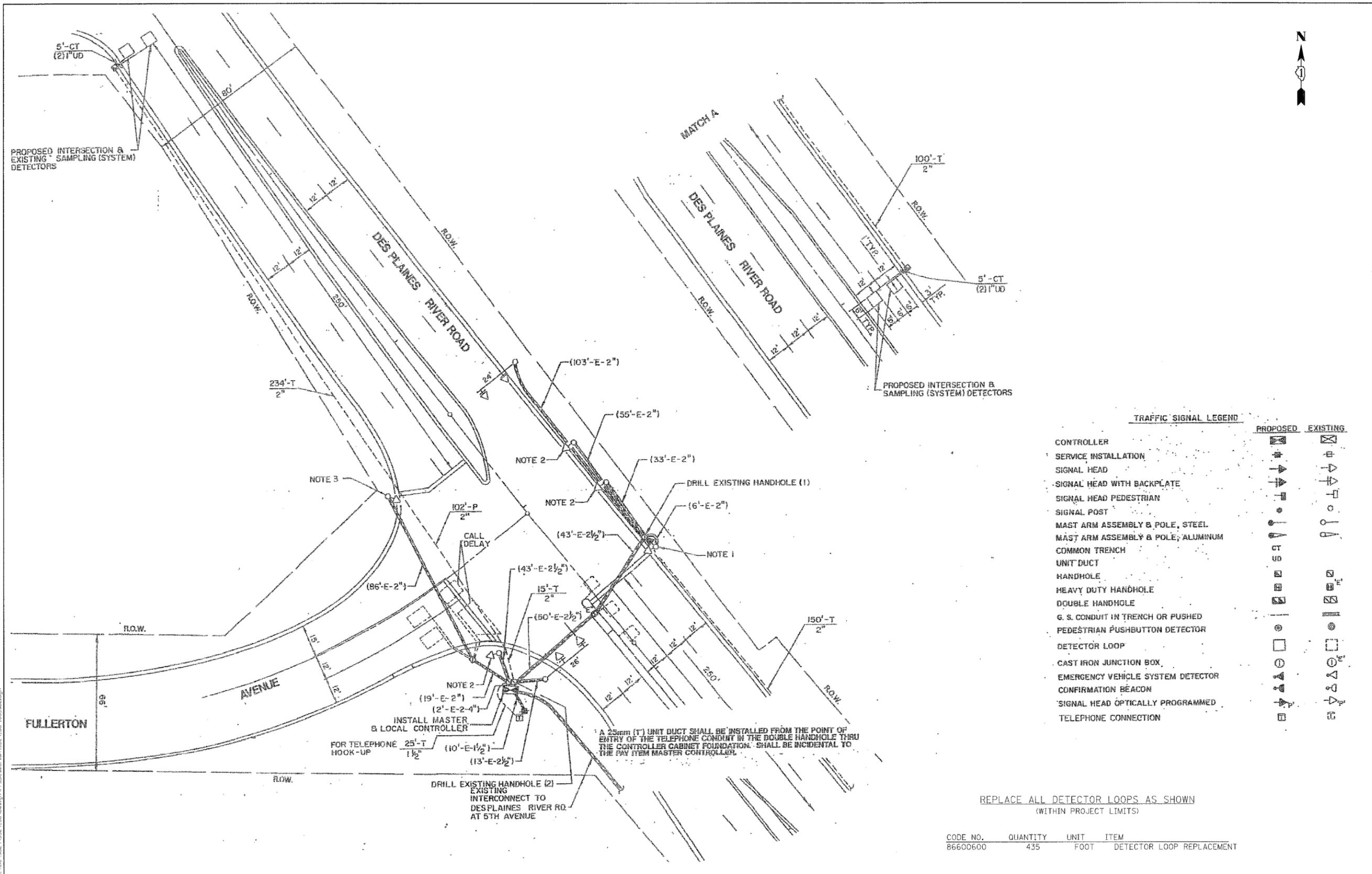
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	DATE 4/7/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
DETECTOR LOOP REPLACEMENT

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 14
CONTRACT NO. 62414				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY & POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY & POLE, ALUMINUM	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G. S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]

REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN PROJECT LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	435	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: I:\PROJ\3229\3229_36_Design\Facade\1\3229_36_1000002.dgn

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USER NAME	DESIGNED	REVISIONS
AL	AL	-
MJL	MJL	-
DATE	DATE	REVISIONS
4/5/2008	4/7/2008	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
DETECTOR LOOP REPLACEMENT**

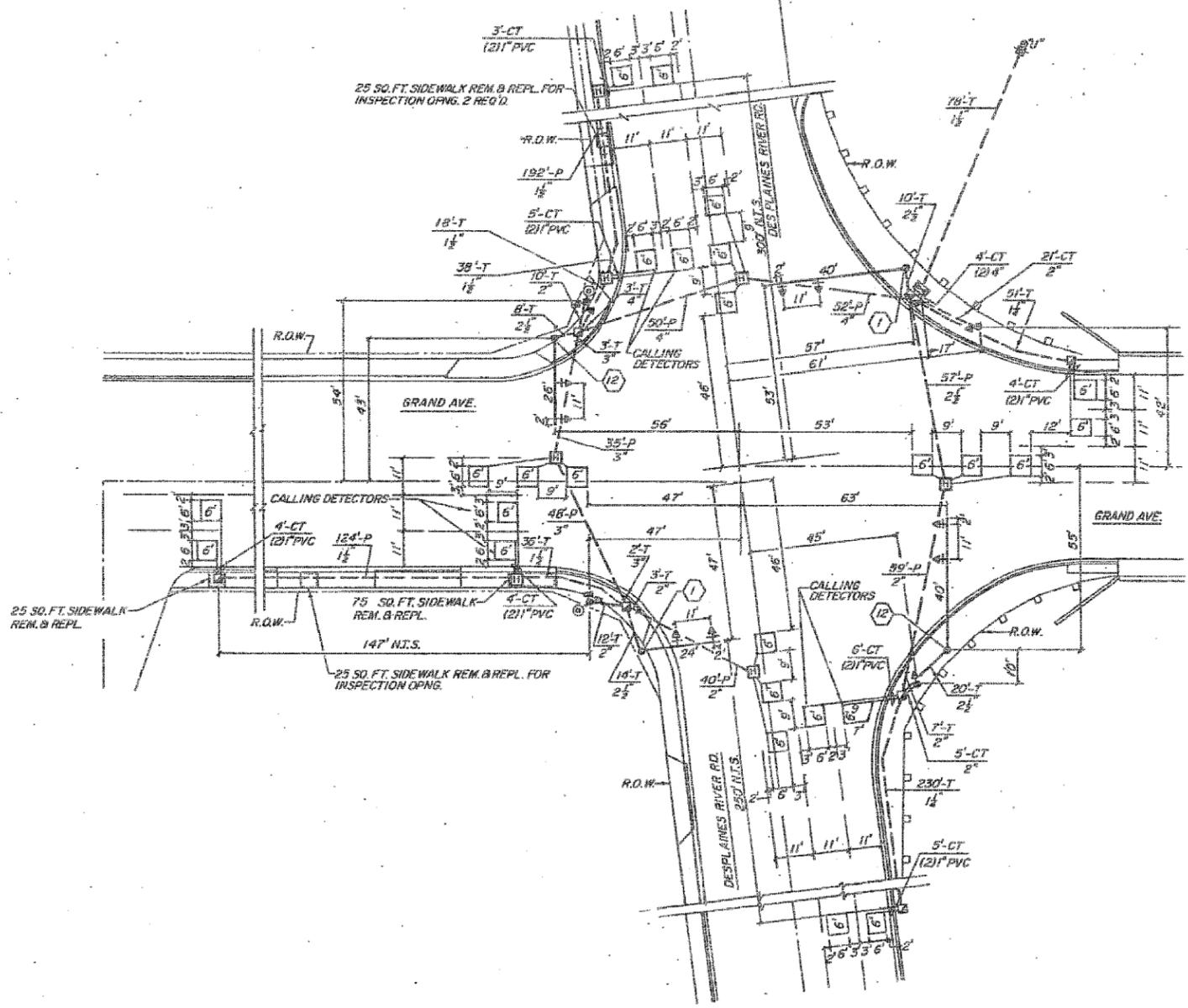
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	15

CONTRACT NO. 62414
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT



- TRAFFIC SIGNAL LEGEND**
- SERVICE INSTALLATION
 - CONTROLLER
 - DOUBLE HANDHOLE
 - HANDHOLE
 - HEAVY-DUTY HANDHOLE
 - SIGNAL HEAD
 - SIGNAL HEAD WITH BACKPLATE
 - MAST ARM ASSEMBLY AND POLE, STEEL
 - SIGNAL POST
 - DETECTOR LOOP
 - G.S. CONDUIT IN TRENCH OR PUSHED
 - COMMON TRENCH
 - UTILITY CO. POLE
 - R.O.W.
 - PVC
 - SIGN PANEL LOCATION
 - N.T.S.
 - PEDESTRIAN PUSHBUTTON
 - PEDESTRIAN SIGNAL HEAD



REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN PROJECT LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	881	FOOT	DETECTOR LOOP REPLACEMENT

FULL NAME: N:\V\02\3322\3329_36\Design\ProposedPlan\3323_36\cepa03.dgn

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 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014

USER NAME: mbelog	DESIGNED: AL	REVISED: -
PLOT SCALE: 1:8000 1/4" IN.	DRAWN: AL	REVISED: -
PLOT DATE: 4/5/2008	CHECKED: M.J.L.	REVISED: -
	DATE: 4/7/2008	REVISED: -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

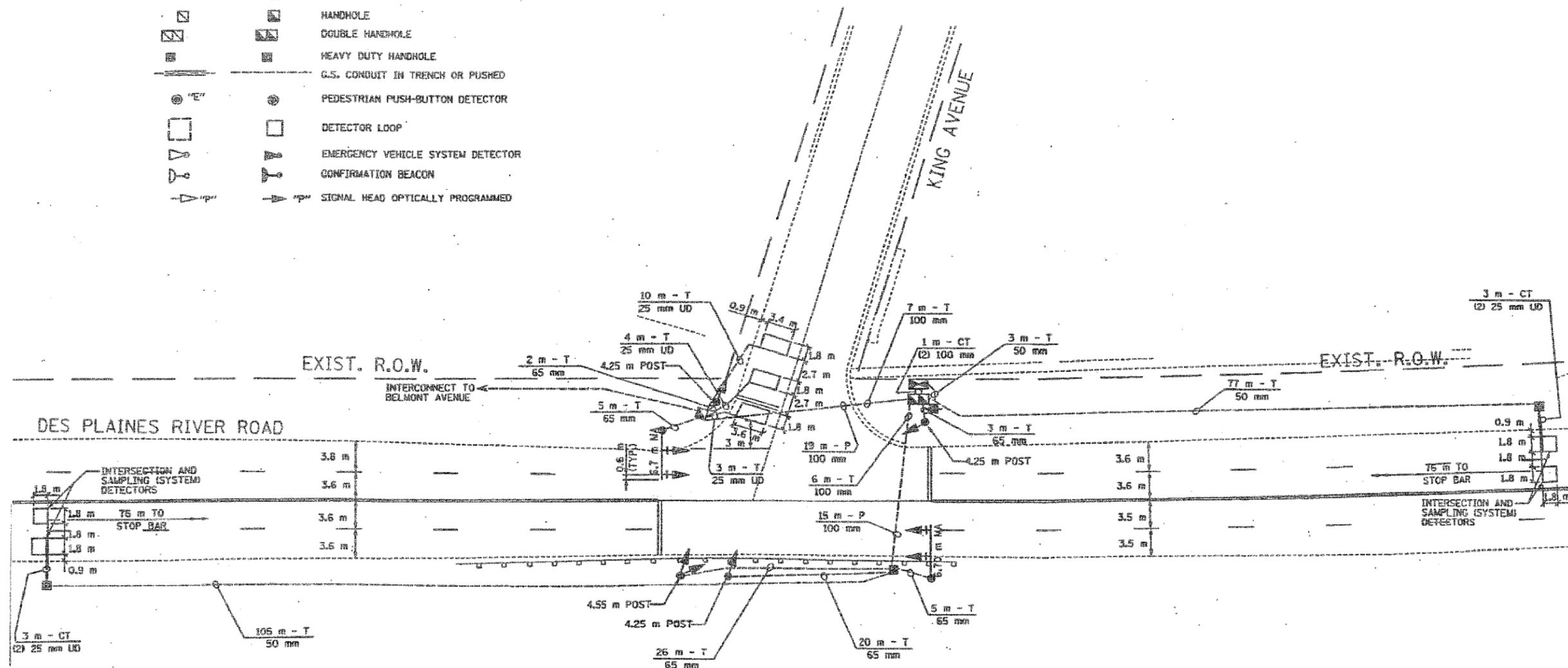
**DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
DETECTOR LOOP REPLACEMENT**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2710	SECTION 3222 RS-1	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62414	

TRAFFIC SIGNAL LEGEND

EXIST.	PROP.	
		CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, ALUMINUM
	CT	COMMON TRENCH
	UD	UNIT DUCT
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		PEDESTRIAN PUSH-BUTTON DETECTOR
		DETECTOR LOOP
		EMERGENCY VEHICLE SYSTEM DETECTOR
		CONFIRMATION BEACON
		SIGNAL HEAD OPTICALLY PROGRAMMED



REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN PROJECT LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	306	FOOT	DETECTOR LOOP REPLACEMENT

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Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME	DESIGNED	REVISIONS
mabalog	AL	-
	DRAWN	AL
	CHECKED	MJL
	DATE	4/7/2008

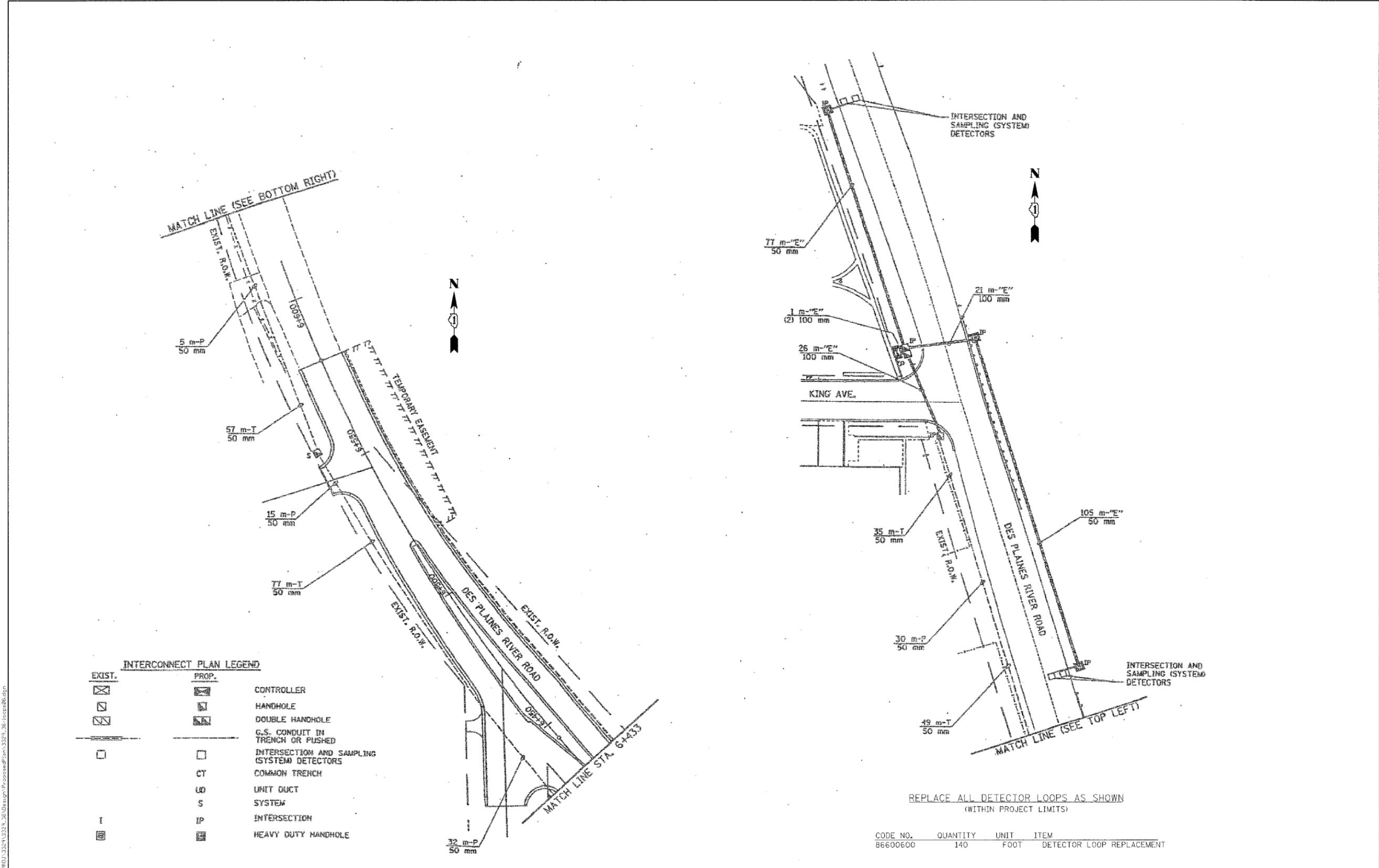
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
DETECTOR LOOP REPLACEMENT**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	17

CONTRACT NO. 62414
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

FILE NAME: \\N:\PROJ\3224\3224_35\Design\ProposedPlan\3224_35-1\propa06.dgn



INTERCONNECT PLAN LEGEND

EXIST.	PROP.	
		CONTROLLER
		HANDHOLE
		DOUBLE HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		INTERSECTION AND SAMPLING (SYSTEM) DETECTORS
		COMMON TRENCH
		UNIT DUCT
		SYSTEM
		INTERSECTION
		HEAVY DUTY HANDHOLE

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN PROJECT LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	140	FOOT	DETECTOR LOOP REPLACEMENT

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 8907 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME	DESIGNED	REVISIONS
mbvlog	AL	-
	DRAWN	AL
	CHECKED	M.J.L.
	DATE	4/7/2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
DETECTOR LOOP REPLACEMENT

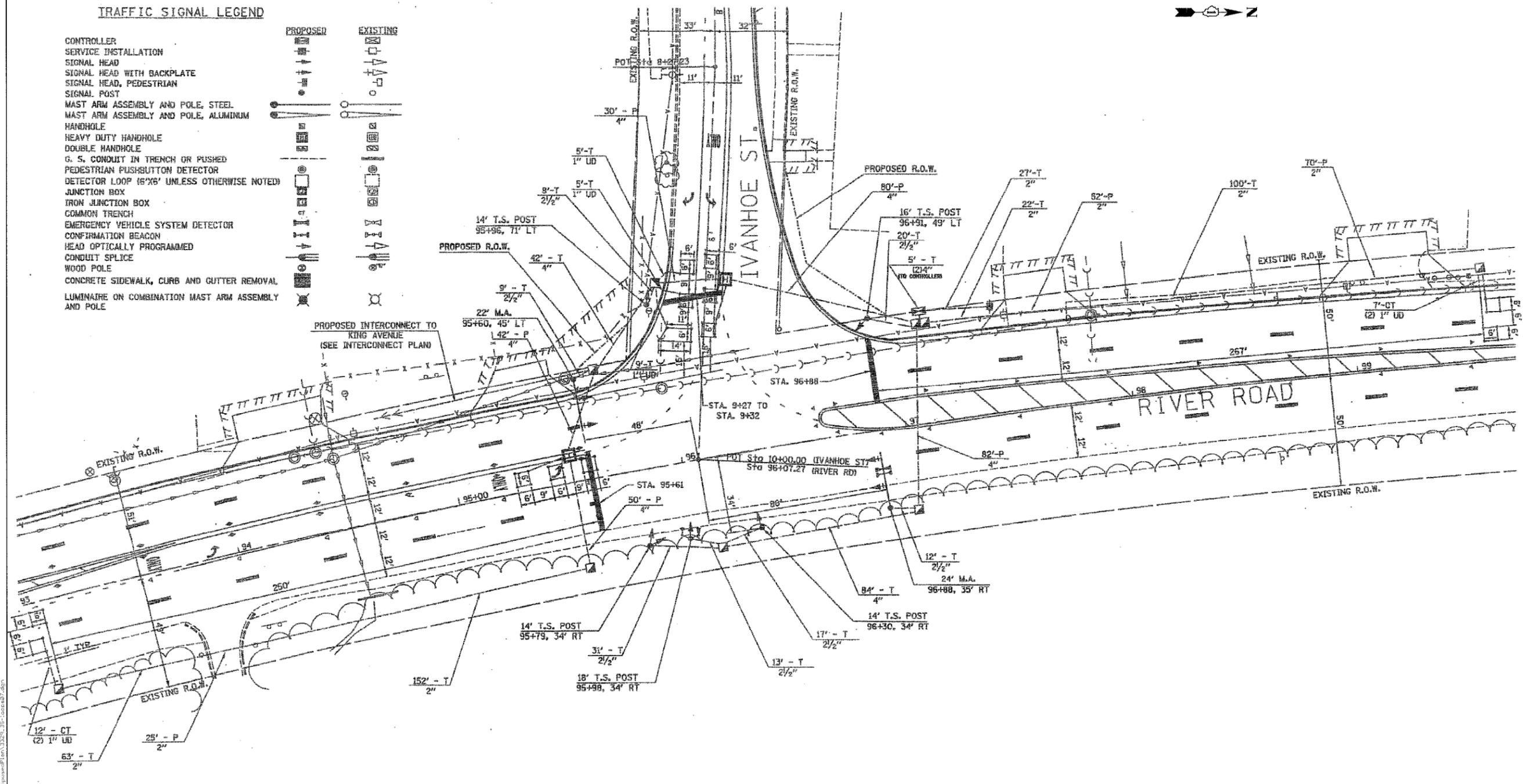
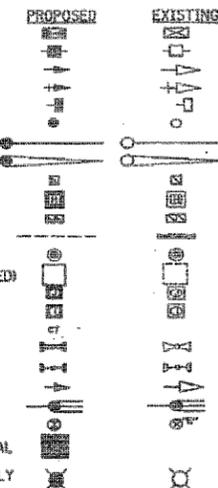
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	18

CONTRACT NO. 62414

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G. S. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP 16'x6' UNLESS OTHERWISE NOTED
- JUNCTION BOX
- IRON JUNCTION BOX
- COMMON TRENCH
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONFIRMATION BEACON
- HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- CONCRETE SIDEWALK, CURB AND GUTTER REMOVAL
- LUMINAIRE ON COMBINATION MAST ARM ASSEMBLY AND POLE



REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN PROJECT LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	482	FOOT	DETECTOR LOOP REPLACEMENT

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60666
Tel. 773.775.4008 Fax 773.775.4014

USER NAME = mbalog	DESIGNED AL	REVISED -
PLOT SCALE = 1/8" = 1' / IN.	DRAWN AL	REVISED -
PLOT DATE = 4/5/2008	CHECKED MJL	REVISED -
DATE 4/7/2008	REVISED -	REVISED -

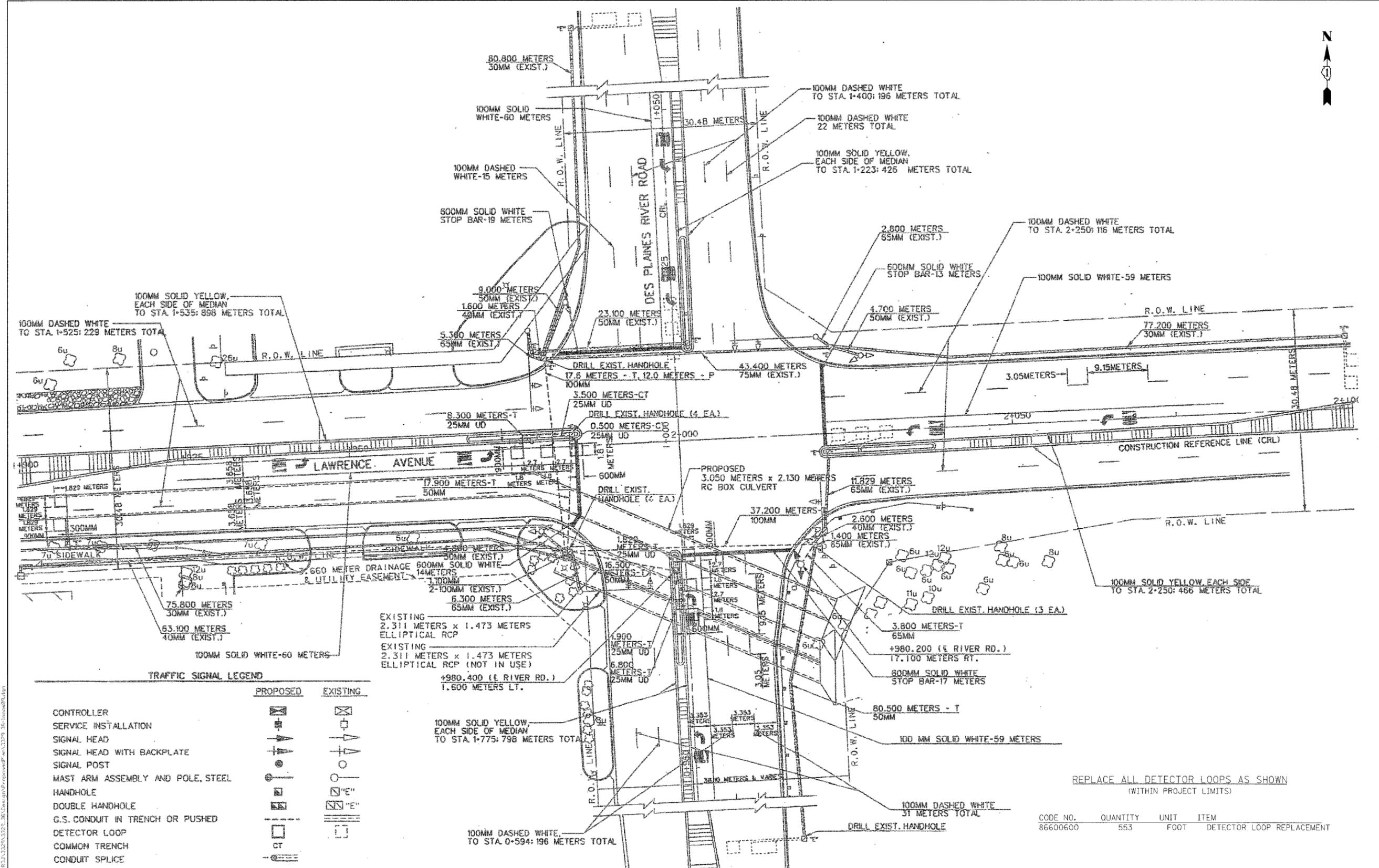
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
DETECTOR LOOP REPLACEMENT

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	19
CONTRACT NO. 62414				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FILE NAME = N:\PROJECTS\3222\3222_18\Drawings\Proposed\Plan\3222_RS-1_Sheet19.dwg



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
COMMON TRENCH		
CONDUIT SPLICE		

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN PROJECT LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	553	FOOT	DETECTOR LOOP REPLACEMENT

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = rmbellog	DESIGNED AL	REVISED -
PLOT SCALE = 1:10000 1/4" = 30'	DRAWN AL	REVISED -
PLOT DATE = 4/5/2008	CHECKED MJL	REVISED -
	DATE 4/7/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

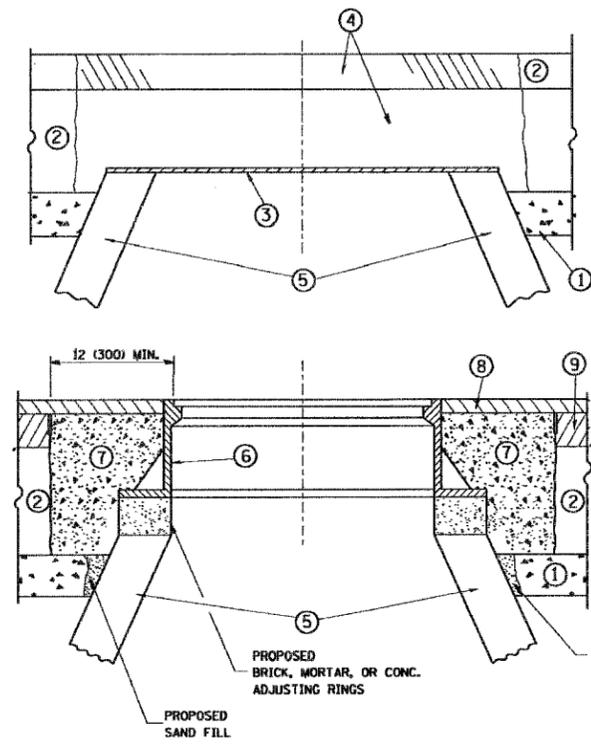
DES PLAINES RIVER ROAD
FOSTER AVENUE TO 1ST AVENUE (IL 171)
DETECTOR LOOP REPLACEMENT

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	20

CONTRACT NO. 62414
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	21
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



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
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

NOTES

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 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT 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.

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

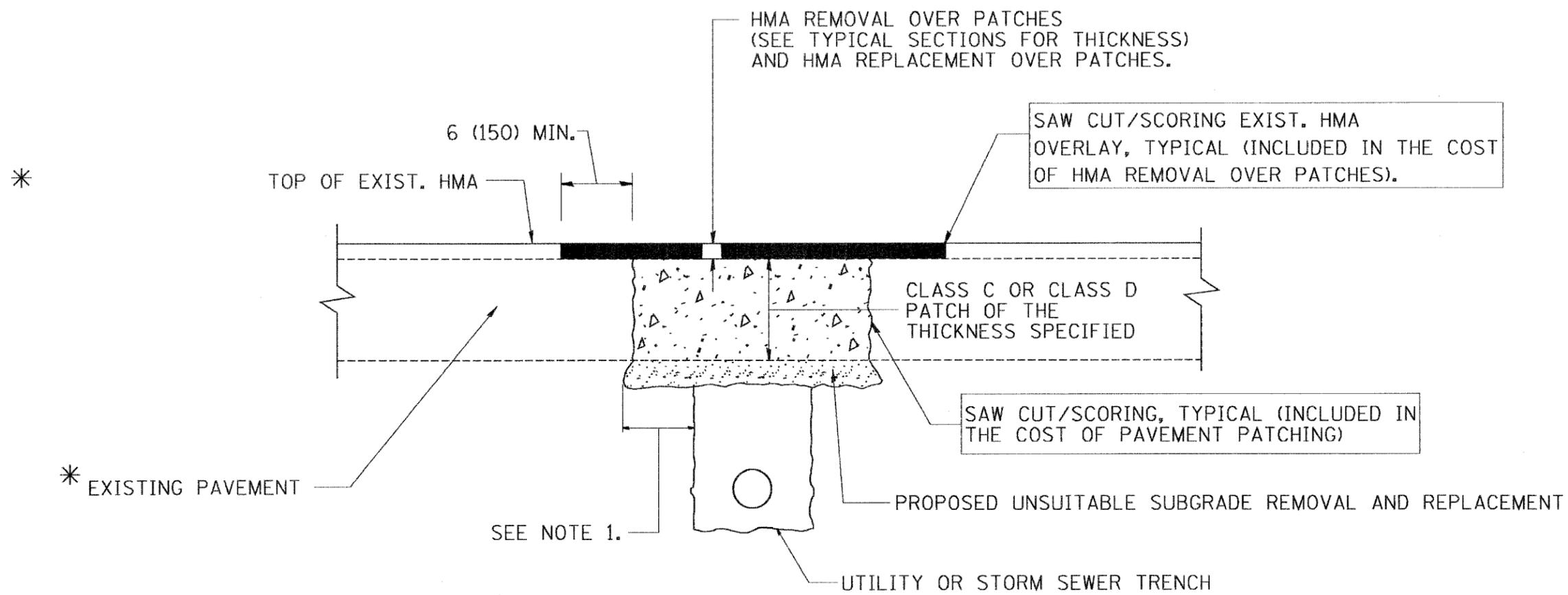
SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD600-03 (BD-8)

PLDT DATE * 3/4/2007
FILE NAME * K:\data\as\1\bd600.dgn
USER NAME * bborro

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	22
STA.		TO STA.		
FED. ROAD DIST. NO. 1		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

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/99
R. SHAH	04/24/99
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07
R. BORO	09/04/07

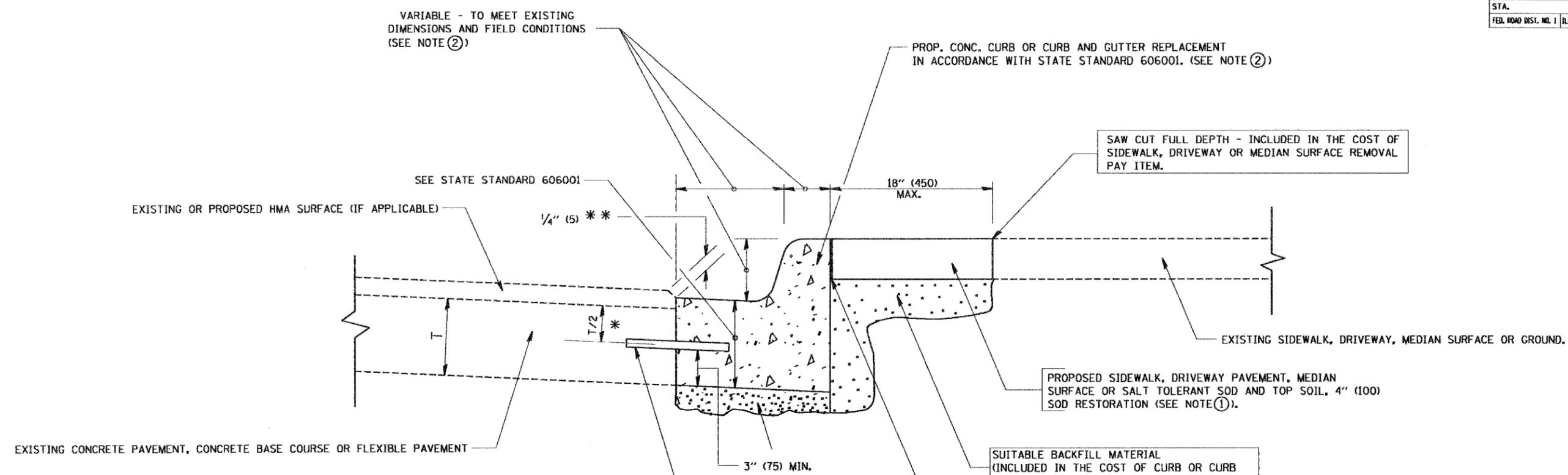
ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: VERT. NONE
 HORIZ. NONE

DRAWN BY
 CHECKED BY
 BD400-04 (BD-22)

PLOT DATE: 9/4/2007
 PLOT SCALE: 80000 / IN
 USER NAME: bboard

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	23
STA.		TO STA.		
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.
- SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
 - ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
 - ④ 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.
 - ⑤ 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.
 - ⑥ 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.
 - ⑦ 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.

- SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)
- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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".

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

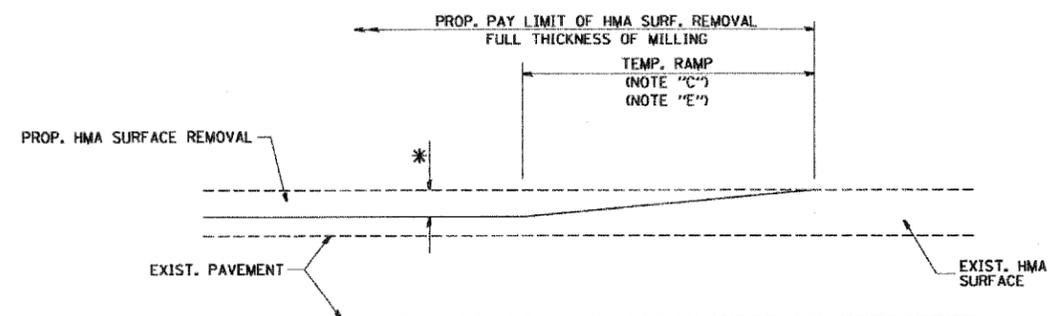
REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE
 HORIZ. NONE
 DRAWN BY
 CHECKED BY
 BD600-06 (BD-24)

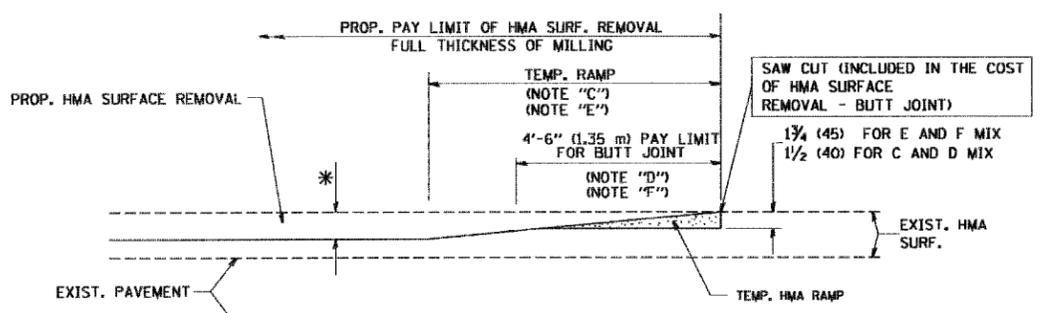
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 USER NAME: jshah01

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	24
STA.		TO STA.		
FEL. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



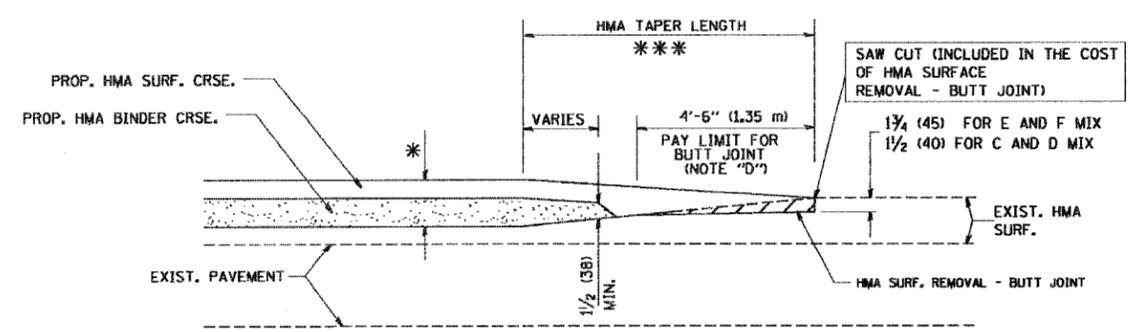
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1



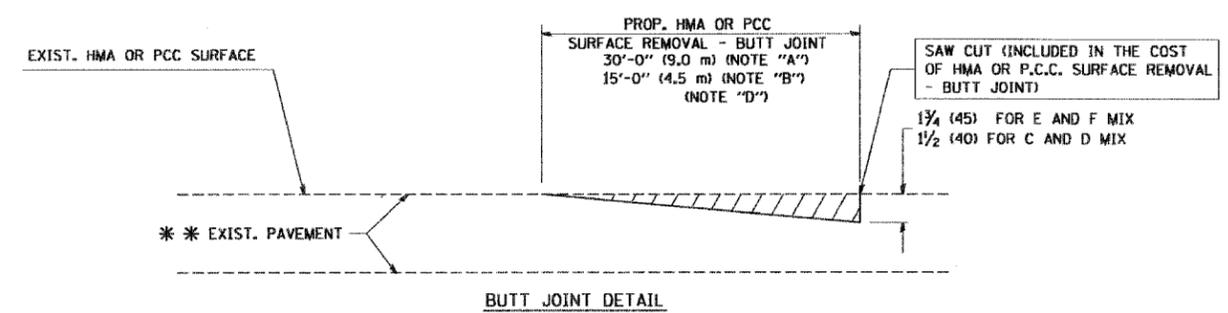
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP

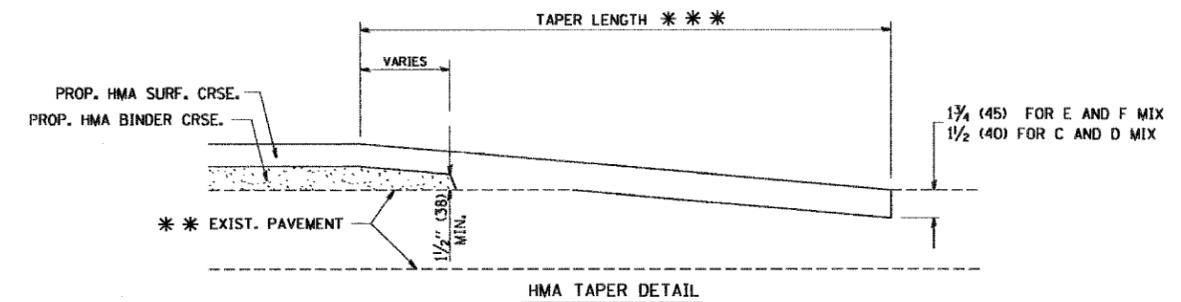


BUTT JOINT AND HMA TAPER

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")

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

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

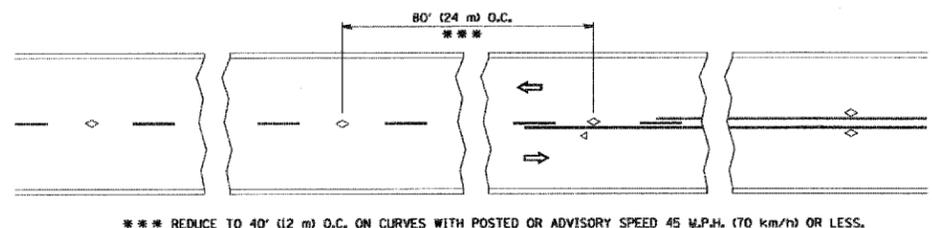
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HORIZ.

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CHECKED BY

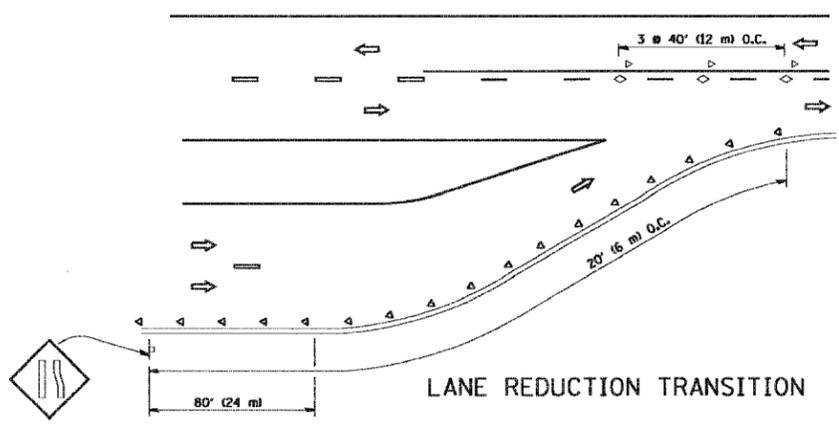
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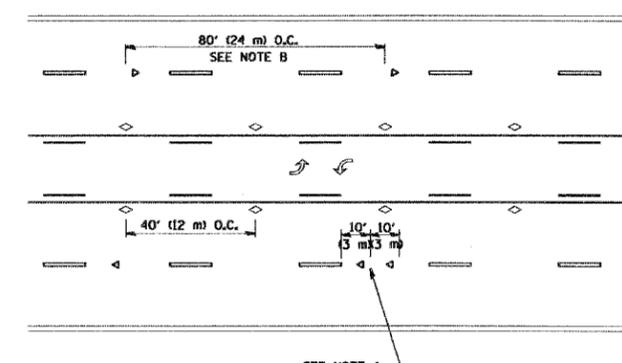
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



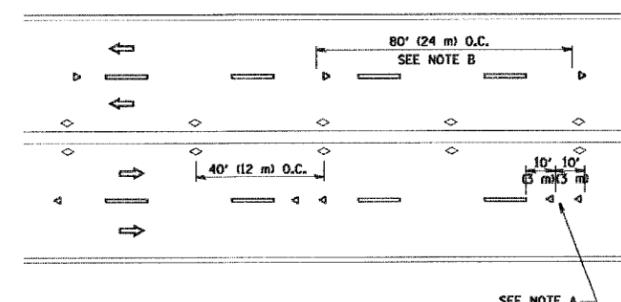
TWO-LANE/TWO-WAY



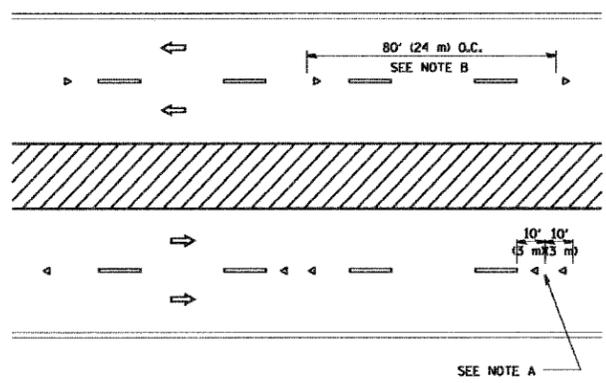
LANE REDUCTION TRANSITION



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

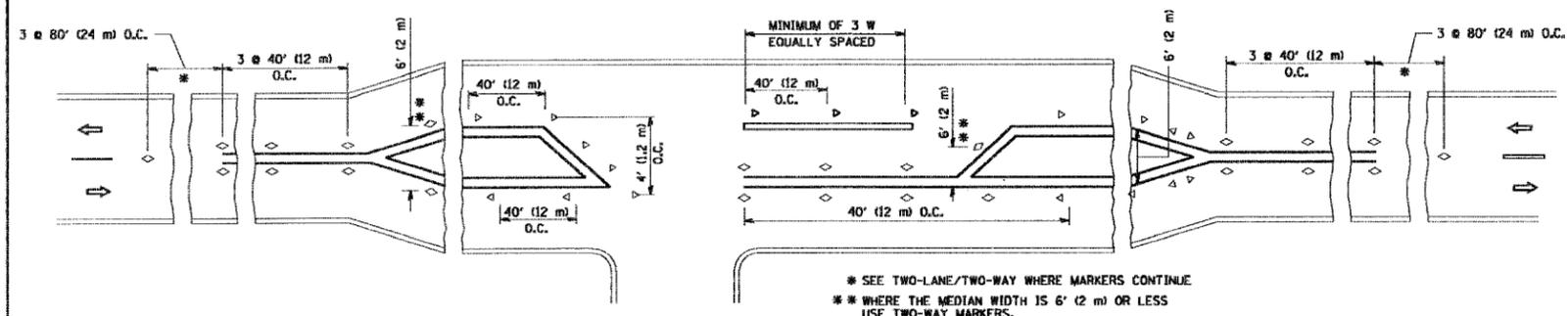
- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◇ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- 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.

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

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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE

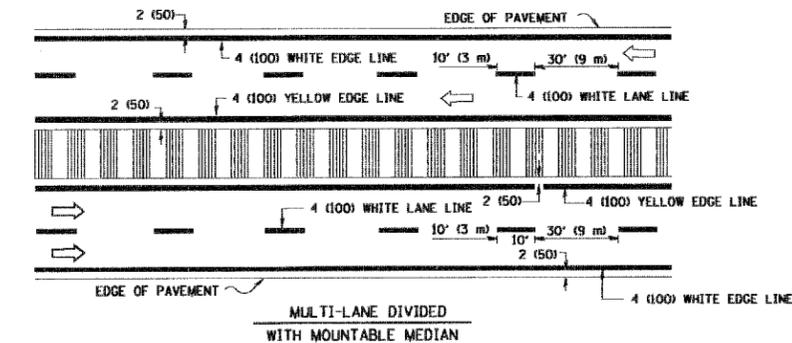
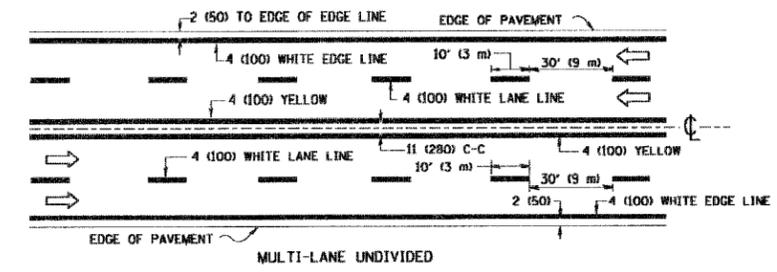
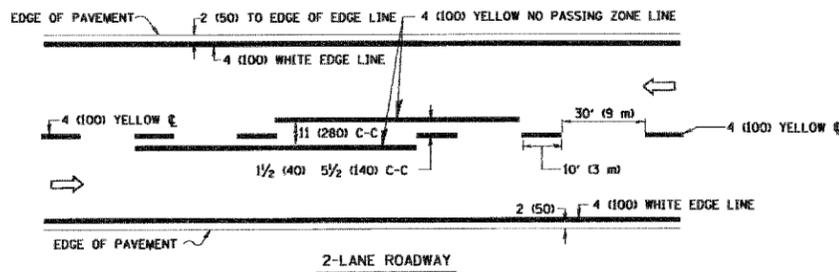
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CHECKED BY

TC-11

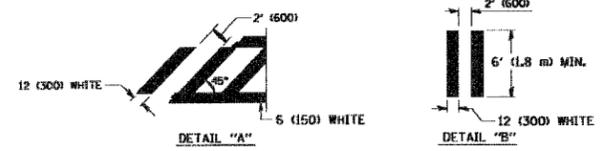
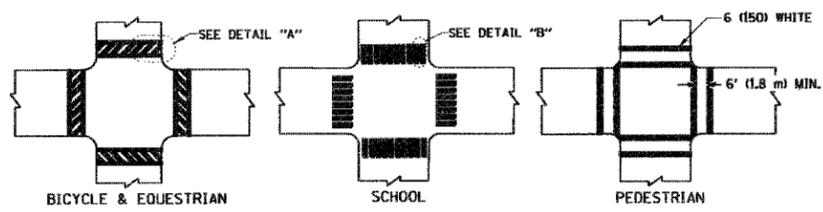
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 PLOT NAME = ROADWAY.MXD
 USER NAME = bwardi

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

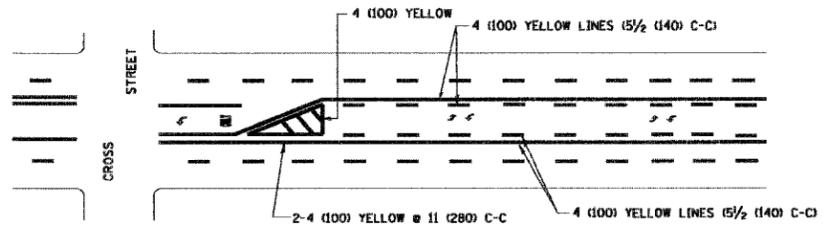
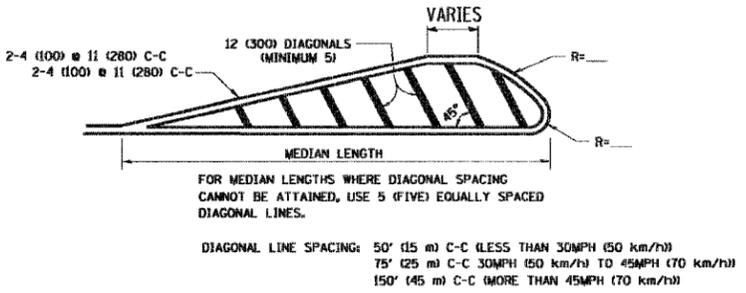
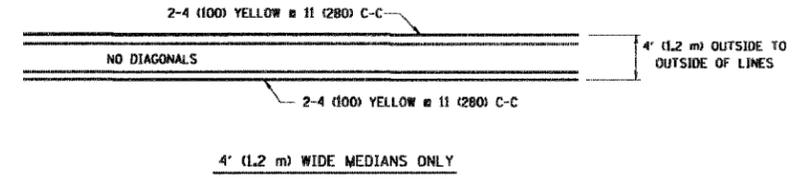


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

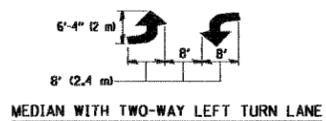
TYPICAL LANE AND EDGE LINE MARKING



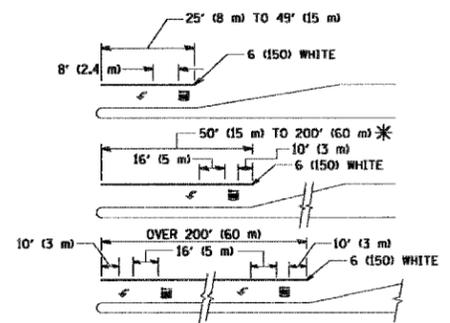
TYPICAL CROSSWALK MARKING



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.



TYPICAL TURN LANE MARKING

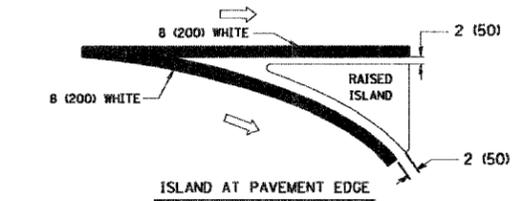
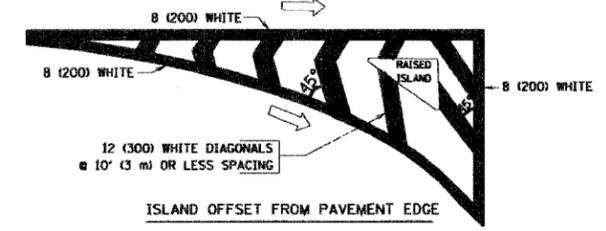


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

* 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

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	5 1/2 (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; 5 1/2 (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) 2 (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.
CORE 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" 15' (4.5 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' (23 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 78000L

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

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

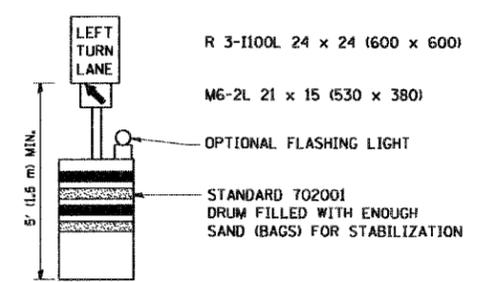
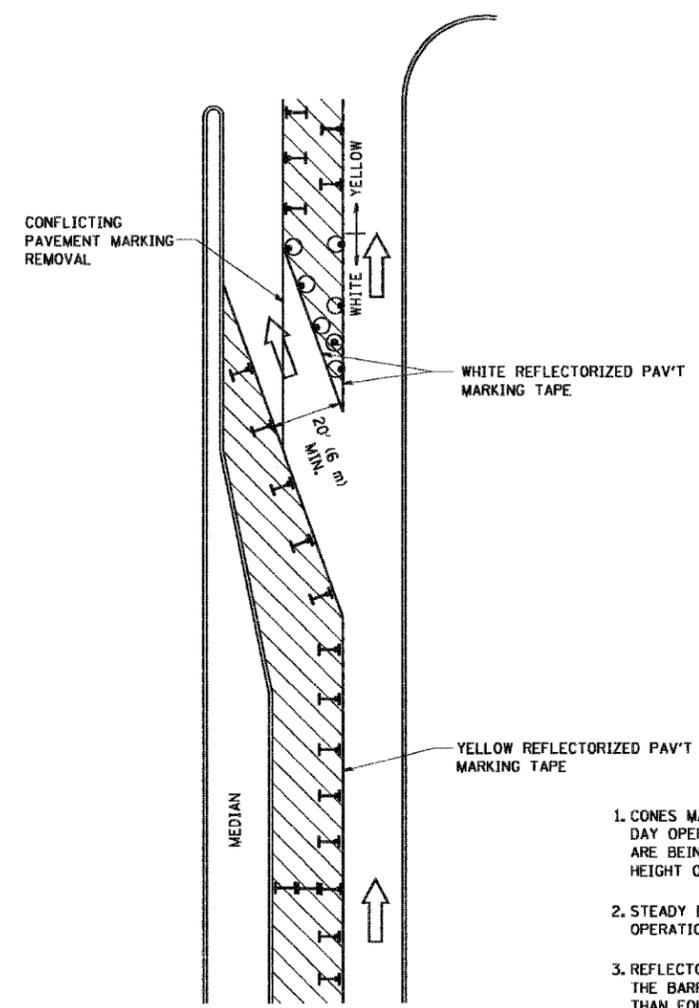
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CAD0
CHECKED BY

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USER NAME = bch001

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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 BT 725 IS REQUIRED.
8. 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.

REVISIONS	
NAME	DATE
T. RAMMACHER	05/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

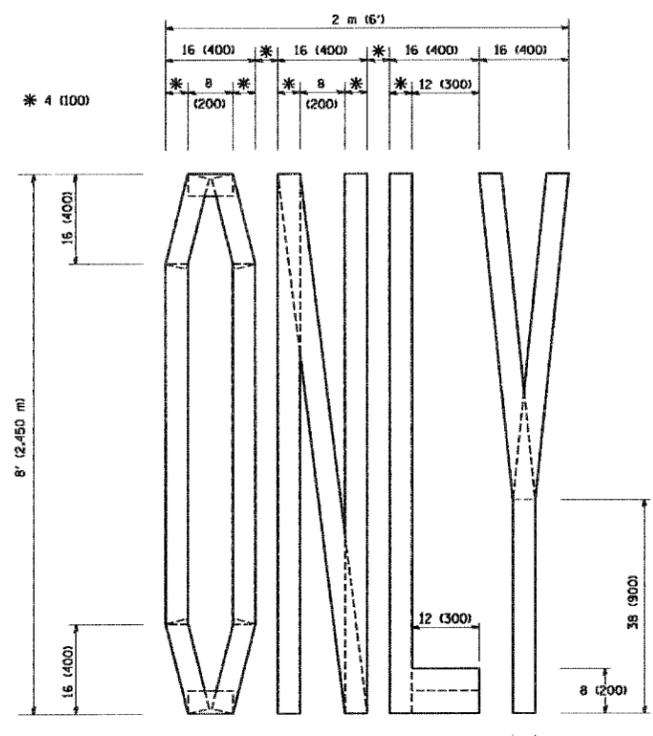
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE

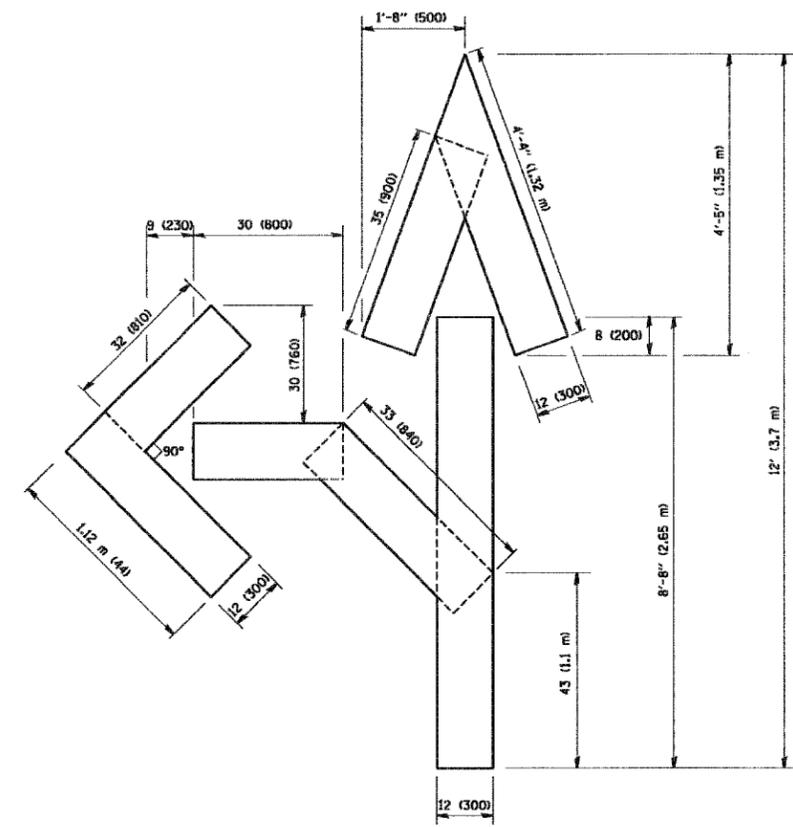
DRAWN BY
 CHECKED BY LHA

PLOT DATE = 2/6/2007
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 USER NAME = lha
 USER MAKE =

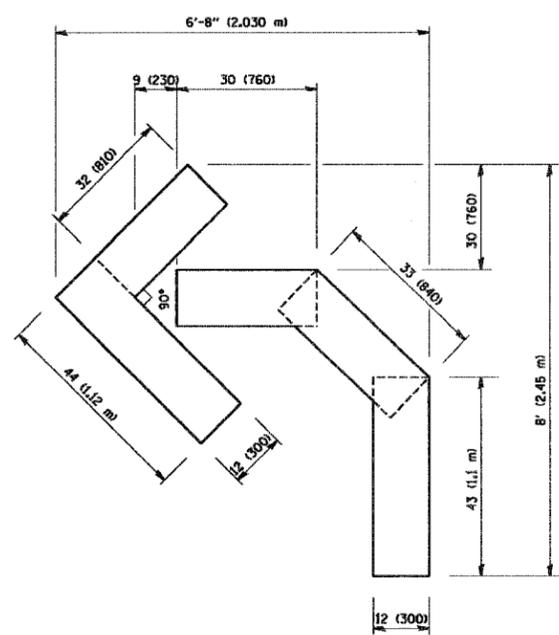
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8FAP	3222 RS-1	COOK	31	29
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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)

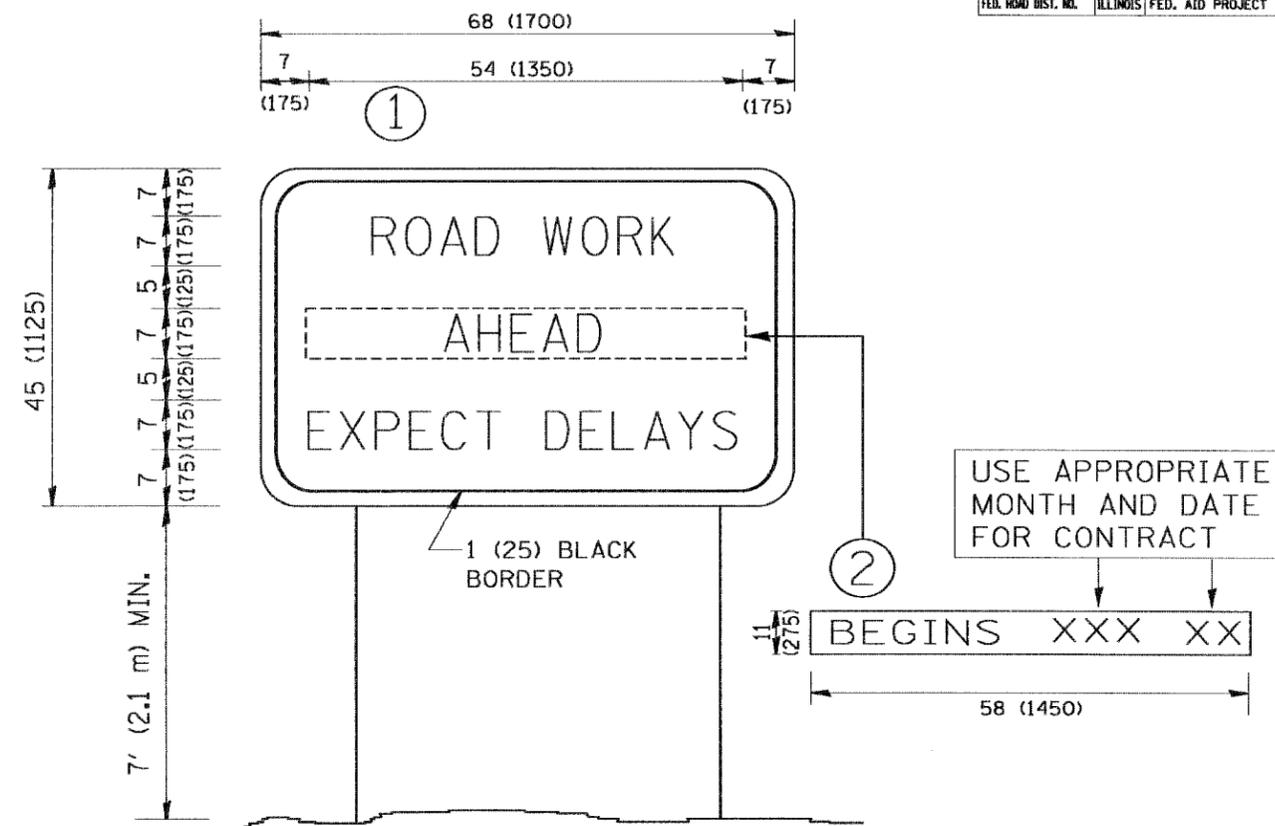
All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**
 SCALE: NONE
 DRAWN BY CADD
 CHECKED BY
 TC-16

PLOT DATE = 3/7/2007
 FILE NAME = K:\asireza\1\0616.dgn
 USER NAME = asireza

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	30
STA.		TO STA.		
FED. ROAD DIST. NO.	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.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION
**ARTERIAL ROAD
 INFORMATION SIGN**

SCALE: NONE

DRAWN BY DESIGN

CHECKED BY

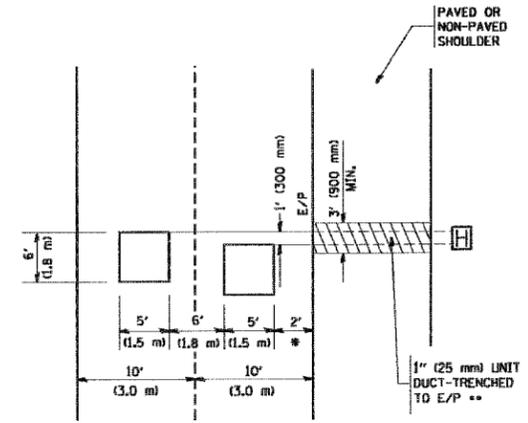
TC22

PLOT DATE = 2/6/2007
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = bkwarc01

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2710	3222 RS-1	COOK	31	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

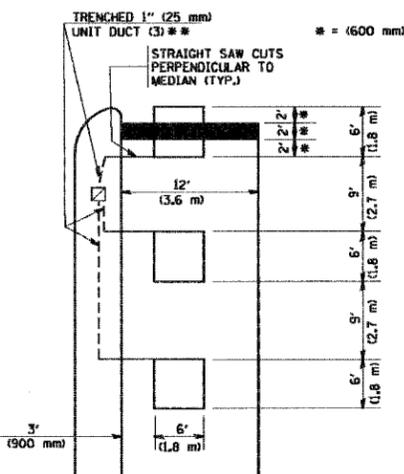
PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



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

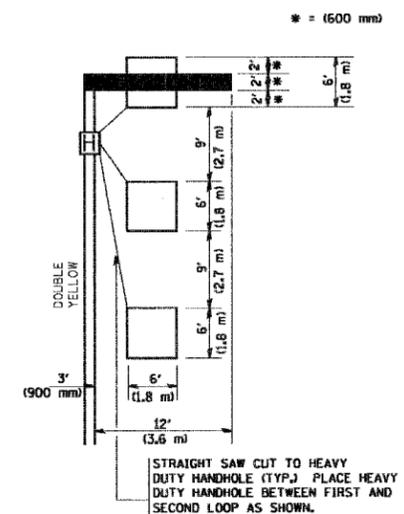
**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

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)**



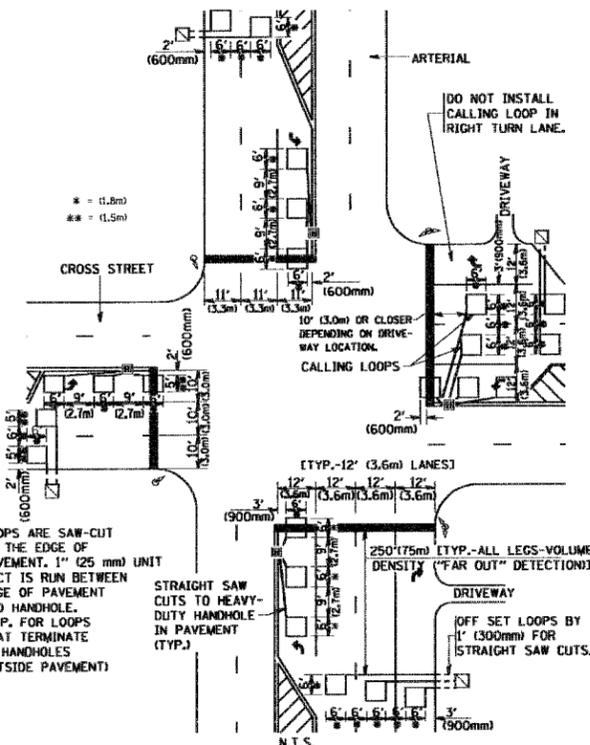
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

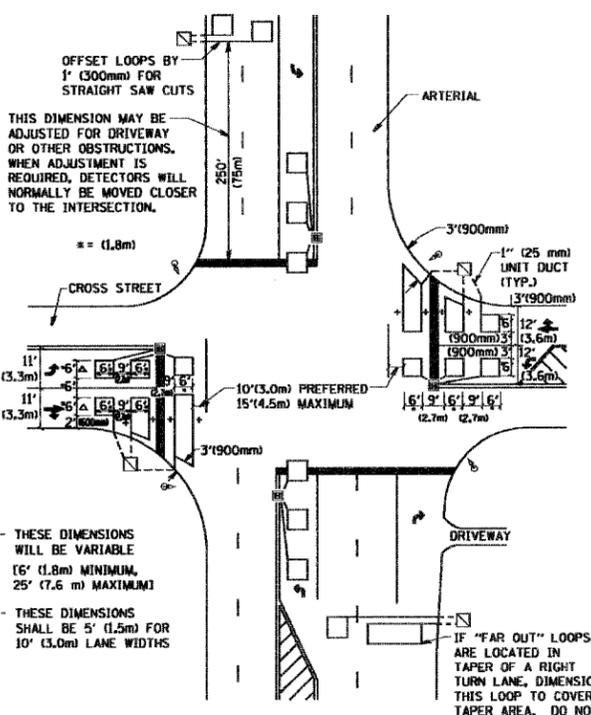
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. 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.

**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.

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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS
FOR ROADWAY RESURFACING
DESIGNED BY
DRAWN BY CADDD
CHECKED BY R.K.J.
TS07

DATE = 3/7/2007
 NAME = K.V. Srinivasan
 PLOT SCALE = 0.500000 / 1.000000
 USER NAME = bharadwaj