

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-Z-Y-RS-1	COOK	32	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 60F26	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:
SPEED LIMIT : 35 M.P.H.
2007 ADT = 44,600

IMPROVEMENT LOCATED IN THE VILLAGE OF MORTON GROVE AND THE VILLAGE OF NILES

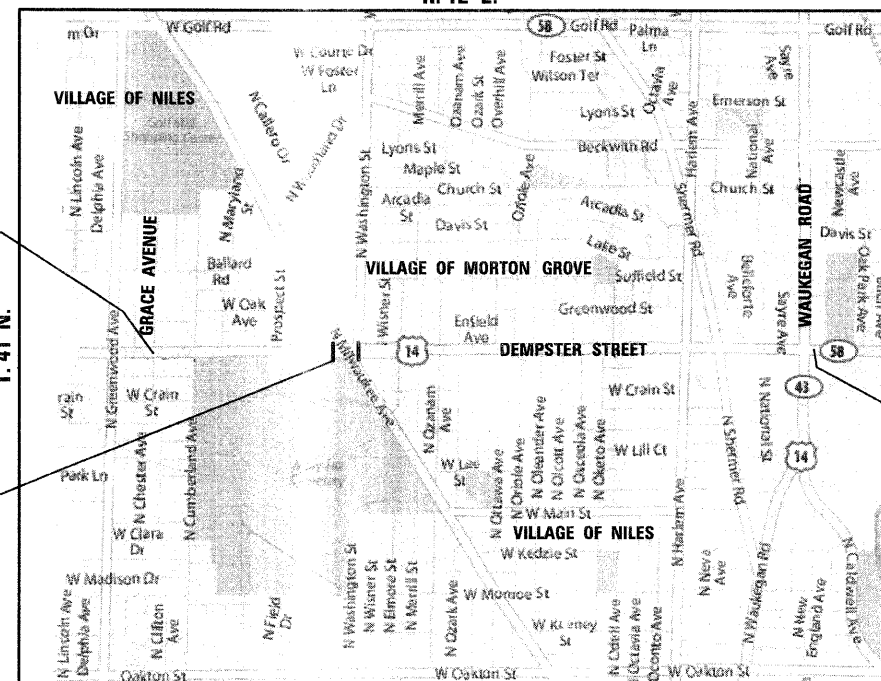
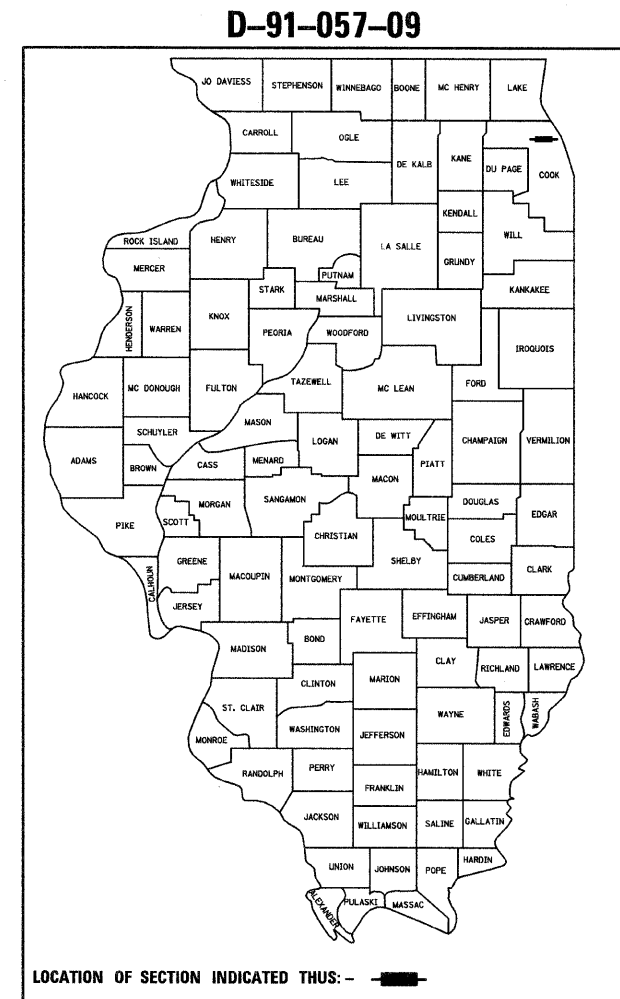
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

**FAU 1324 / US 14 (DEMPSTER STREET)
SECTION: 3228 D-Z-Y-RS-1
GRACE AVENUE TO ILL 43 (WAUKEGAN ROAD)
RESURFACING (3P)**

**COOK COUNTY
C-91-057-09**

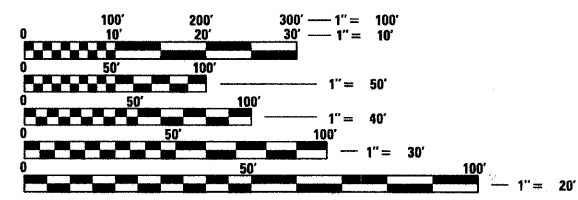
**MAINE TOWNSHIP
R. 12 E.**



**PROJECT BEGINS
STA. 101 + 93**

**OMISSION:
STA. 133 + 82.3 TO
STA. 134 + 81.7**

**PROJECT ENDS
STA. 209 + 14**



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 LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

GROSS LENGTH OF PROJECT = 10,721 FEET = 2.030 MILES
NET LENGTH OF PROJECT = 10,622 FEET = 2.012 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 30, 2009

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER
May 1, 2009

Charles J. Inglesse
ENGINEER OF DESIGN AND ENVIRONMENT
May 1, 2009

Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



Birinder S. Sachdeva
BIRINDER S. SACHDEVA, P.E.
EXPIRES: 11-30-2009

March 23, 2009
DATE

DISTRICT ONE - PLAN PREP ENGINEER: KEN ENG (847) 705-4247

CONTRACT NO. 60F26

CR & A
CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS - PLANNERS - SURVEYORS
211 W. WACKER DRIVE CHICAGO, IL. 60606
TELEPHONE: 312-372-2023

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

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LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
604001-03	FRAME AND LIDS, TYPE 1
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-04	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
780001-02	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 NOTIFICATION IS REQUIRED)
2. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND CONDITIONS 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 AND THE VILLAGE OF MORTON GROVE AND THE VILLAGE OF NILES.
4. 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.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
8. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
10. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
11. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS.
12. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
13. THE CONTRACTOR SHALL CONTACT MR. WALTER CZARNY, THE AREA TRAFFIC FIELD ENGINEER, AT (773) 685-8386 AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
14. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
15. MATCH EXISTING PAVEMENT MARKINGS AT THE PROJECT AND OMISSION LIMITS.
16. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
17. PAY ITEM 55039700 - STORM SEWERS TO BE CLEANED - SHALL ONLY BE UTILIZED TO CLEAN STORM SEWER LATERAL PIPES BETWEEN INLETS OR CATCH BASINS AND MAIN SEWERS.

FILE NAME = D168F26-shr-gennote.dgn
PLOT DATE = 3/31/2009



CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES
US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 101+93 TO STA. 209+14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-Z-Y-RS-1	COOK	32	2
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60F26	

SUMMARY OF QUANTITIES			URBAN 100% STATE	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000 URBAN
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	70	70
40600300	AGGREGATE (PRIME COAT)	TON	400	400
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	60	60
40600895	CONSTRUCTING TEST STRIP	EACH	2	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	880	880
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	9,841	9,841
42001300	PROTECTIVE COAT	SQ YD	214	214
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	20	20
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	393	393
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	1,068	1,068
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	99,353	99,353
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	20	20
44000600	SIDEWALK REMOVAL	SQ FT	393	393
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	453	453
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	100	100
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	1,800	1,800
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	240	240
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	1,260	1,260
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	30	30
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	100	100
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	40	40
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	30	30
55039700	STORM SEWERS TO BE CLEANED	FOOT	2,090	2,090
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	7	7
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	109	109
60404950	FRAMES AND GRATES, TYPE 24	EACH	2	2
60403700	LIDS, TYPE 1, OPEN LID	EACH	2	2
60403800	LIDS, TYPE 1, CLOSED LID	EACH	2	2
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	2	2

SUMMARY OF QUANTITIES			URBAN 100% STATE	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000 URBAN
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
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	51,000	51,000
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,586	1,586
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	34,000	34,000
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	9,400	9,400
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	2,950	2,950
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2,450	2,450
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1,041	1,041
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7,400	7,400
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,586	1,586
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	34,000	34,000
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	9,400	9,400
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	2,950	2,950
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,450	2,450
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1,041	1,041
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,325	1,325
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,046	1,046
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	4,326	4,326
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	4,173	4,173
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	190	190

* SPECIALTY ITEM

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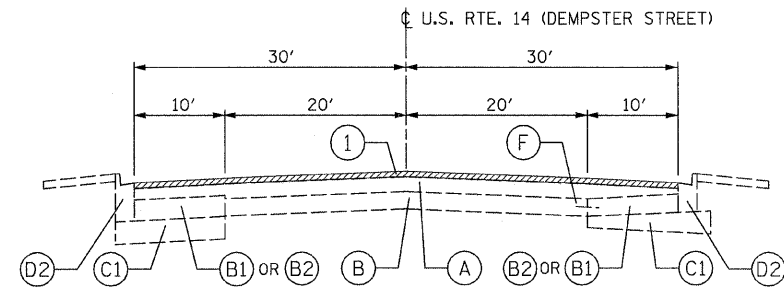
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CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED -	G.F.L.	REVISED -	
DRAWN -	B.K.	REVISED -	
CHECKED -	M.P.	REVISED -	
DATE -	MARCH 2009	REVISED -	

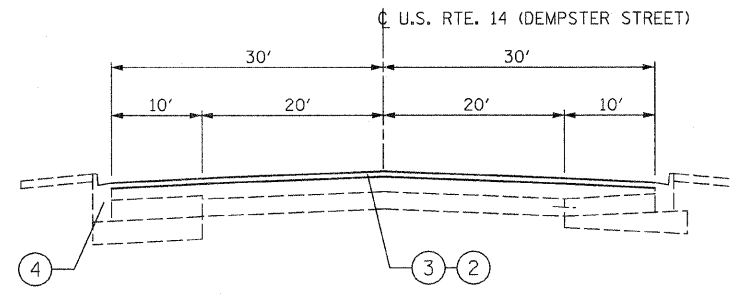
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 101+93 TO STA. 209+14

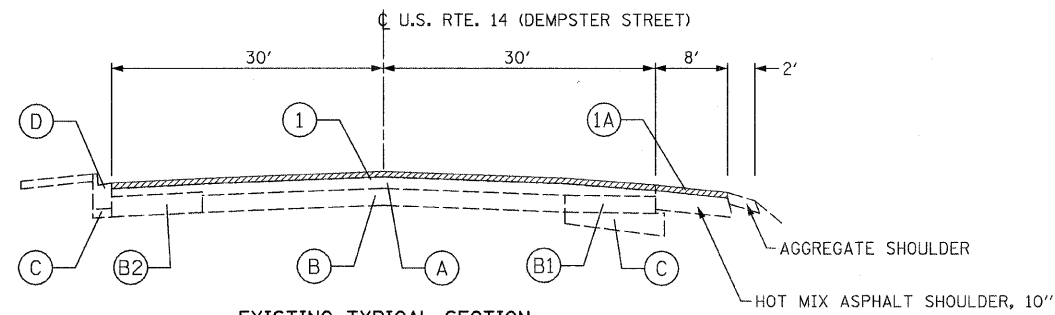
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-Z-Y-RS-1	COOK	32	3
CONTRACT NO. 60F26			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



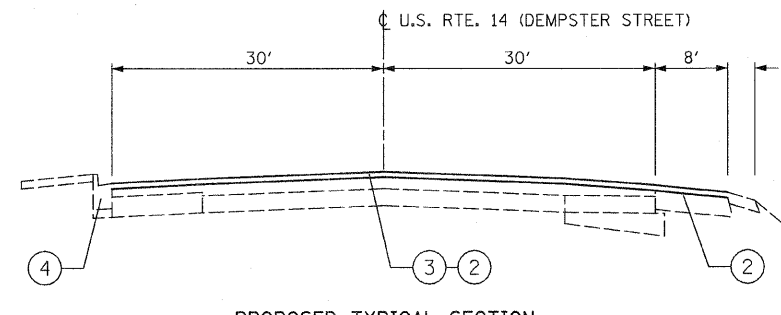
EXISTING TYPICAL SECTION
STA. 101+93 TO STA 109+89



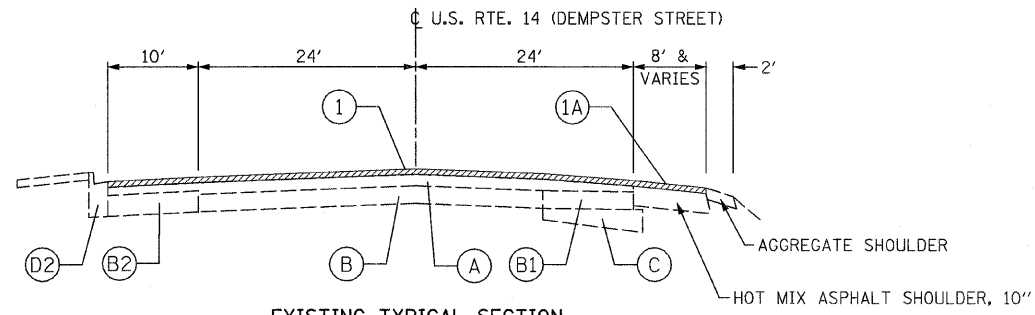
PROPOSED TYPICAL SECTION
STA. 101+93 TO STA 109+89



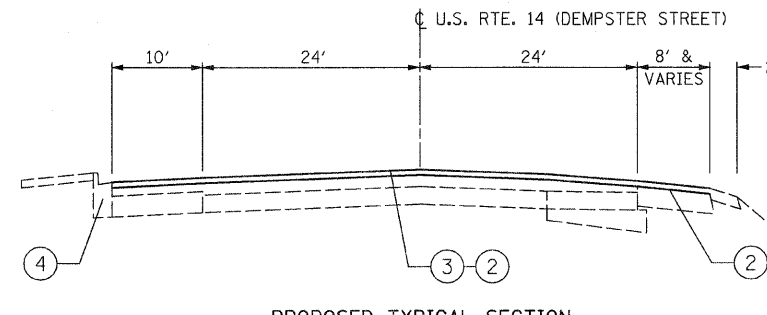
EXISTING TYPICAL SECTION
STA. 109+89 TO STA 113+65



PROPOSED TYPICAL SECTION
STA. 109+89 TO STA 113+65



EXISTING TYPICAL SECTION
STA. 113+65 TO STA 121+04



PROPOSED TYPICAL SECTION
STA. 113+65 TO STA 121+04

EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE, 5", 7" & VARIES
- (B) P.C. CONCRETE PAVEMENT, 9"
- (B1) P.C. CONCRETE BASE COURSE, 8' OR 9"
- (B2) HOT MIX ASPHALT BASE COURSE, 12"
- (B3) HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 15 1/2"
- (B4) HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 15 3/4"
- (B5) HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- (C) AGGREGATE SUBGRADE, 4", 6" AND VARIES
- (C1) AGGREGATE SUBGRADE, 12"
- (D) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (D1) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (D2) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- (E) CONCRETE MEDIAN, TYPE SB-6.06
- (E1) CONCRETE MEDIAN, TYPE SB-6.12
- (E2) CONCRETE MEDIAN, TYPE SM-2.12
- (F) TIE BAR

PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (1A) HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (4) COMB. CONC. CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATION AS DETERMINED BY THE ENGINEER)

NOTE:

THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

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PLOT DATE = 3/30/2009

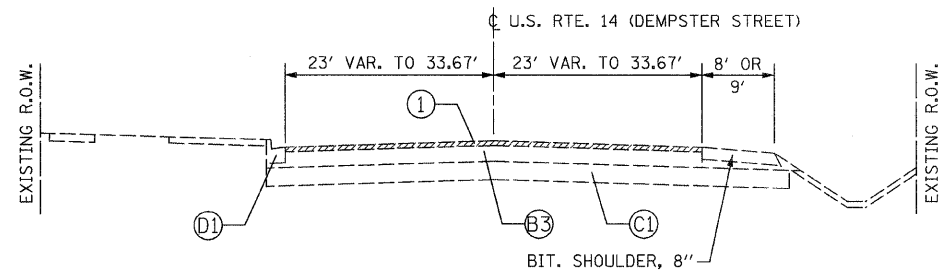
CHRISTIAN-ROGE & ASSOCIATES, INC.
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PHONE: (312)372-2023 FAX: (312)372-5274

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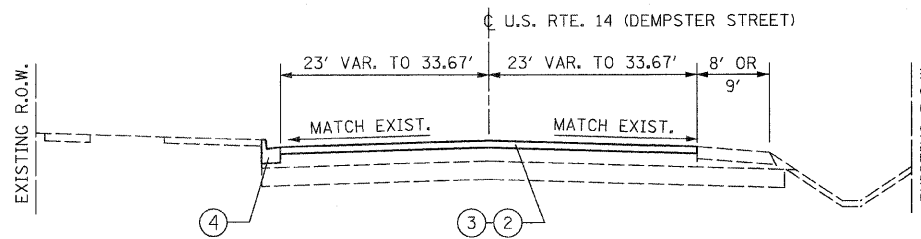
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)
SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. 101+93 TO STA. 121+04

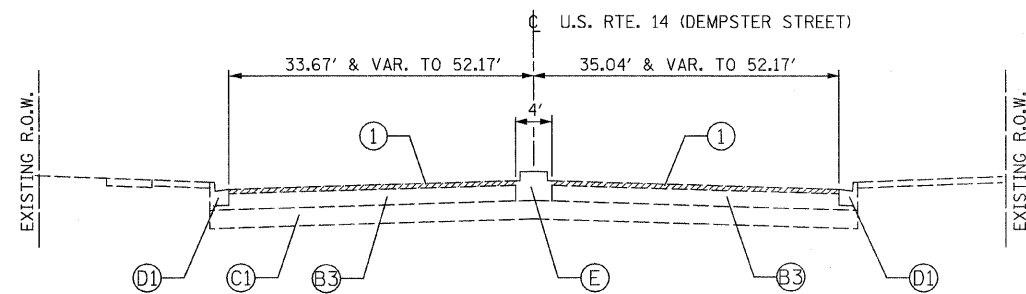
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-Z-Y-RS-1	COOK	32	4
CONTRACT NO. 60F26				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



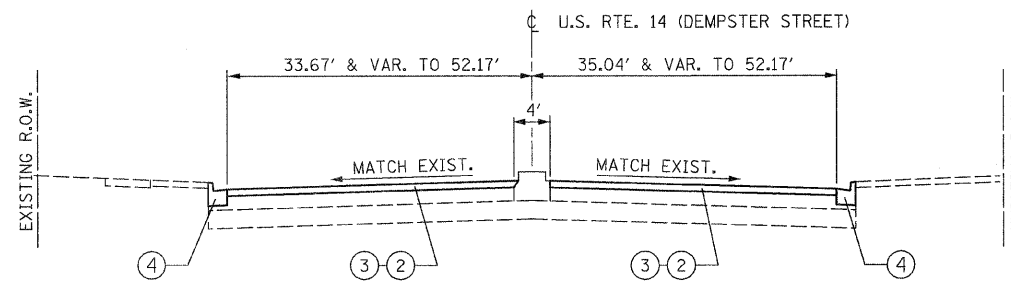
EXISTING TYPICAL SECTION
STA. 121+04 TO STA 123+21



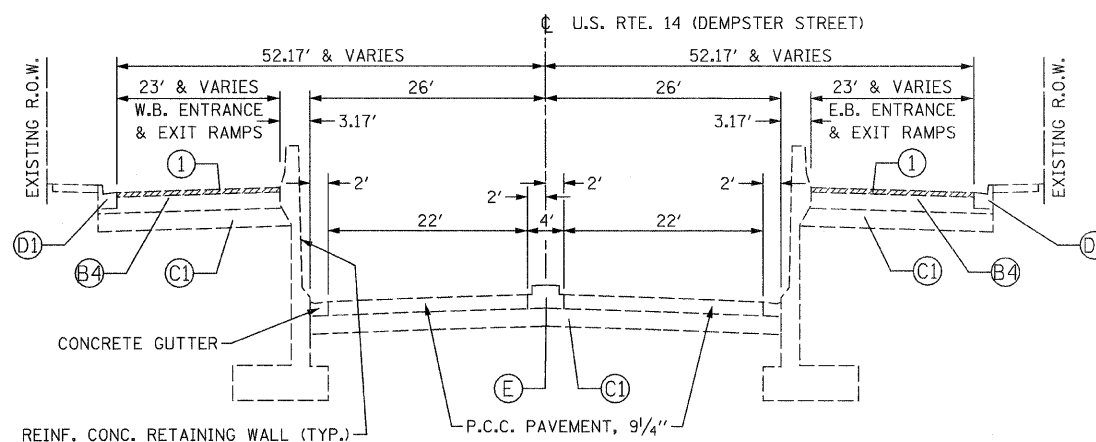
PROPOSED TYPICAL SECTION
STA. 121+04 TO STA 123+21



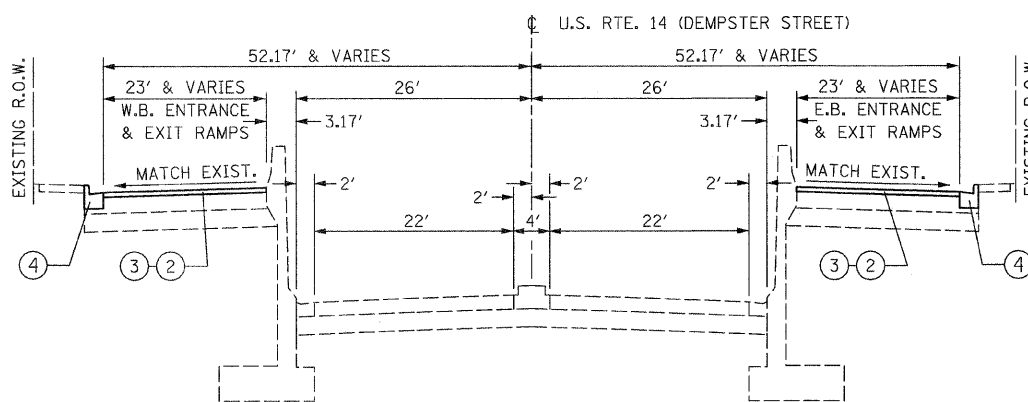
EXISTING TYPICAL SECTION
STA. 123+21 TO STA. 127+22
STA. 141+00 TO STA. 143+55.7



PROPOSED TYPICAL SECTION
STA. 123+21 TO STA. 127+22
STA. 141+00 TO STA. 143+55.7



EXISTING TYPICAL SECTION
STA. 127+00 TO STA 141+00



PROPOSED TYPICAL SECTION
STA. 127+22 TO STA. 141+00
OMISSION STA. 133+82.3 TO STA. 134+81.7

EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE, 5", 7" & VARIES
- (B) P.C. CONCRETE PAVEMENT, 9"
- (B1) P.C. CONCRETE BASE COURSE, 8' OR 9"
- (B2) HOT MIX ASPHALT BASE COURSE, 12"
- (B3) HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 15 1/2"
- (B4) HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 15 3/4"
- (B5) HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- (C) AGGREGATE SUBGRADE, 4", 6" AND VARIES
- (C1) AGGREGATE SUBGRADE, 12"
- (D) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (D1) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (D2) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- (E) CONCRETE MEDIAN, TYPE SB-6.06
- (E1) CONCRETE MEDIAN, TYPE SB-6.12
- (E2) CONCRETE MEDIAN, TYPE SM-2.12
- (F) TIE BAR

PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (1A) HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (4) COMB. CONC. CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATION AS DETERMINED BY THE ENGINEER)

NOTE:

THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

ROADWAY NAME	HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
	MIXTURE TYPE	AC TYPE	AIR VOIDS
U.S. RTE. 14 (DEMPSTER STREET)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm)	SBS/SBR PG 70-22	4% @ 90 GYR
	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 GYR
	CLASS D PATCHES (HMA BINDER, IL-19mm)	* PG 64-22	4% @ 70 GYR.

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.
THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

FILE NAME = D160F26-sht-tp1001.dgn
PLOT DATE = 3/30/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - C.F.L.
DRAWN - B.K.
CHECKED - M.P.
DATE - MARCH 2009

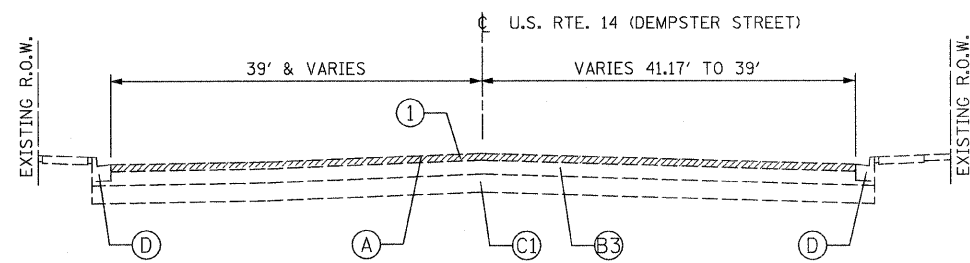
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

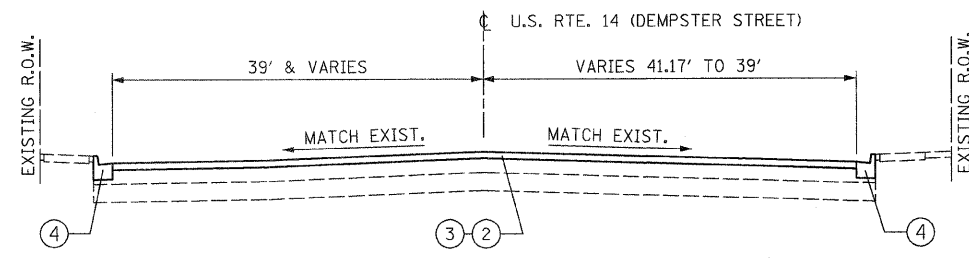
TYPICAL SECTIONS
US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. 121+04 TO STA. 143+55.7

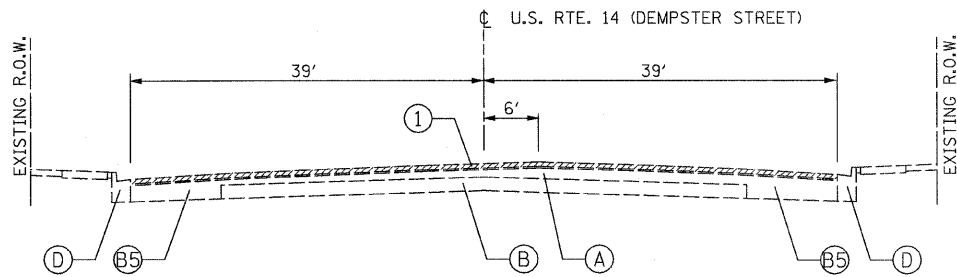
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-2-Y-RS-1	COOK	32	5
CONTRACT NO. 60F26				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



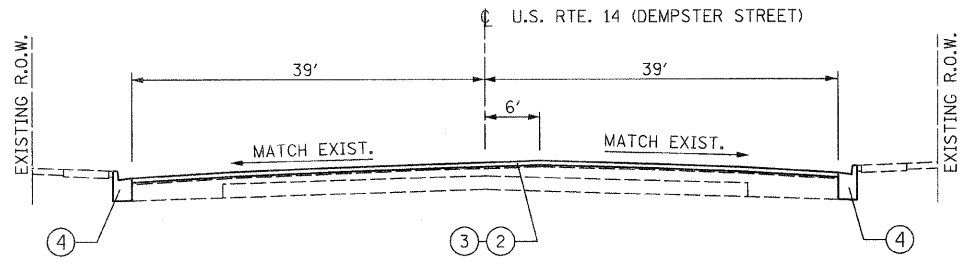
EXISTING TYPICAL SECTION
STA. 143+55.7 TO STA 146+10



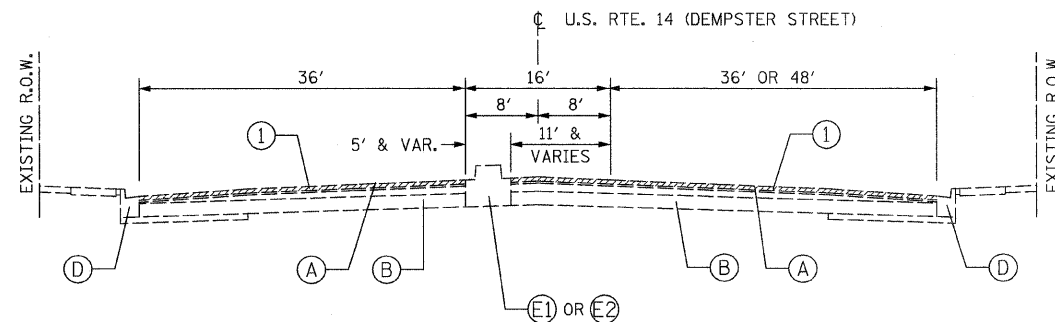
PROPOSED TYPICAL SECTION
STA. 143+55.7 TO STA 146+10



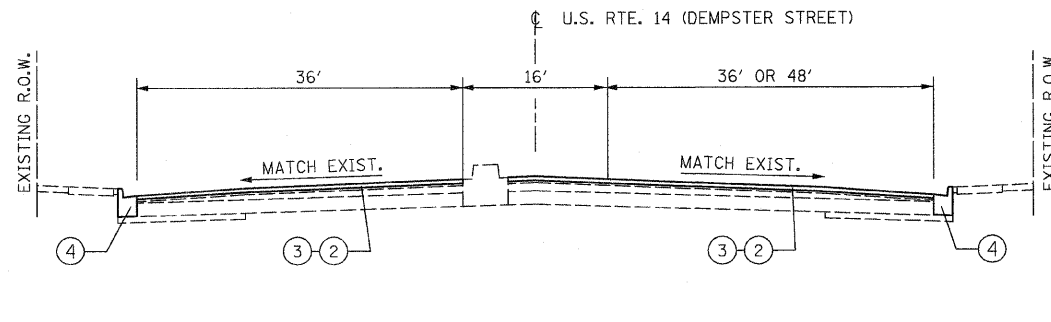
EXISTING TYPICAL SECTION
STA. 146+10 TO STA 176+33



PROPOSED TYPICAL SECTION
STA. 146+10 TO STA 176+33



EXISTING TYPICAL SECTION
STA. 176+25 TO STA. 209+14



PROPOSED TYPICAL SECTION
STA. 176+25 TO STA. 209+14

EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE, 5", 7" & VARIES
- (B) P.C. CONCRETE PAVEMENT, 9"
- (B1) P.C. CONCRETE BASE COURSE, 8' OR 9"
- (B2) HOT MIX ASPHALT BASE COURSE, 12"
- (B3) HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 15 1/2"
- (B4) HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 15 3/4"
- (B5) HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- (C) AGGREGATE SUBGRADE, 4", 6" AND VARIES
- (C1) AGGREGATE SUBGRADE, 12"
- (D) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (D1) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (D2) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- (E) CONCRETE MEDIAN, TYPE SB-6.06
- (E1) CONCRETE MEDIAN, TYPE SB-6.12
- (E2) CONCRETE MEDIAN, TYPE SM-2.12
- (F) TIE BAR

PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (1A) HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (4) COMB. CONC. CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATION AS DETERMINED BY THE ENGINEER)

NOTE:

THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

FILE NAME = D160F26-ah-typ001.dgn
PLOT DATE = 3/30/2009



DESIGNED - G.F.L.
DRAWN - B.K.
CHECKED - M.P.
DATE - MARCH 2009

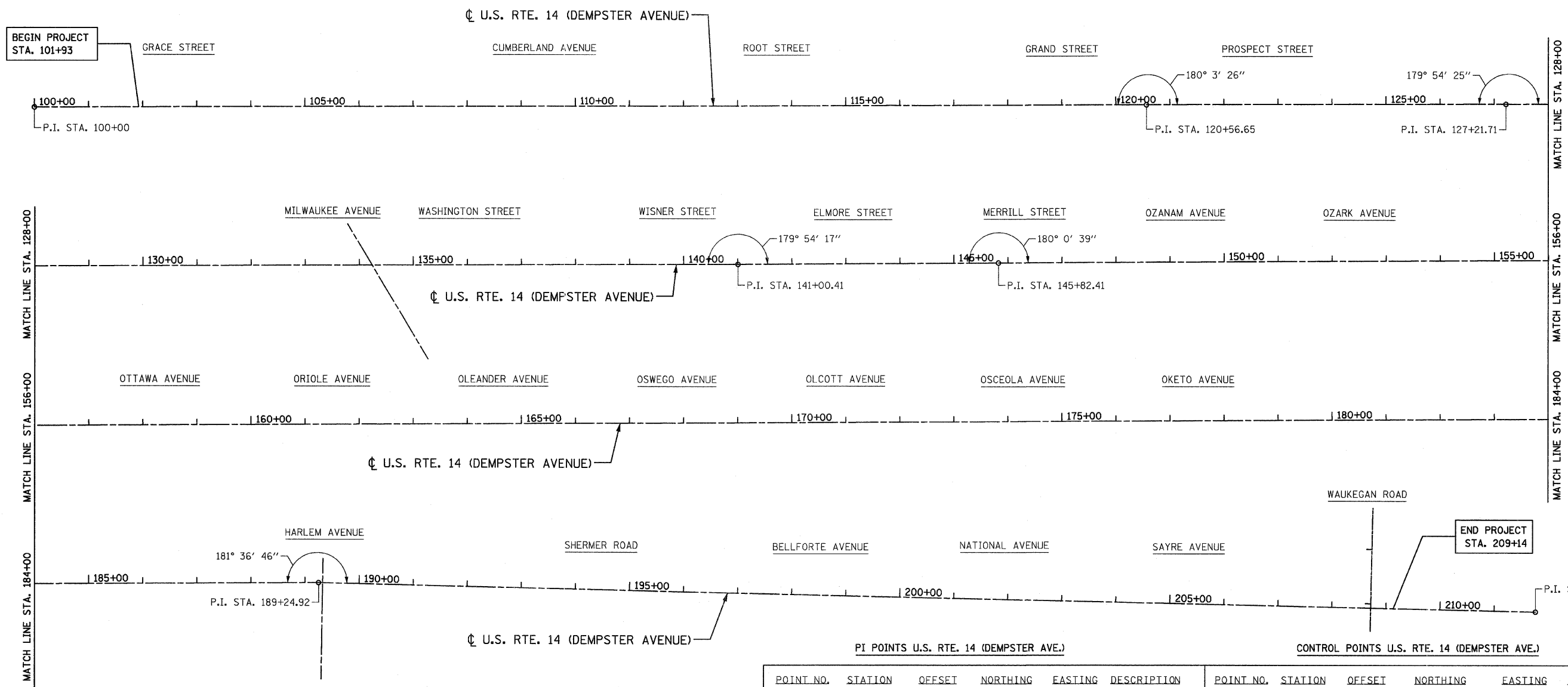
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)

SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. 143+55.7 TO STA. 215+14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-Z-Y-RS-1	COOK	32	6
				CONTRACT NO. 60F26
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PI POINTS U.S. RTE. 14 (DEMPSTER AVE.)

CONTROL POINTS U.S. RTE. 14 (DEMPSTER AVE.)

POINT NO.	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	POINT NO.	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
A21	100+00.00	0	9951.8817	9761.1713	PI	1	102+39	-47.31	10000.0000	10000.0000	X-CUT
A22	120+56.65	0	9958.8236	11817.8086	PI	2	109+06	-45.06	10000.0000	10667.4600	X-CUT
A23	127+21.71	0	9960.4038	12482.8638	PI	3	113+83	34.09	9922.4600	11144.2800	PK NAIL
A24	141+00.41	0	9965.9194	13861.5596	PI	4	110+28	-52.96	10008.3100	10789.3200	GPS
A25	145+82.41	0	9968.6484	14343.5536	PI	5	119+00	28.97	9929.3200	11661.1700	PK NAIL
A26	189+24.92	0	9992.4223	18685.9938	PI	6	122+65	36.25	9923.0700	12026.6900	PK NAIL
A27	211+76.19	0	9941.3860	20936.6839	PI	7	133+46	-56.07	10018.9700	13107.0300	X-CUT
						8	136+28	57.50	9906.5300	13389.5000	X-CUT
						9	140+20	-56.80	10022.3900	13780.4900	X-CUT
						10	142+40	45.18	9921.5300	14001.1200	X-CUT
						11	145+71	45.54	9923.0400	14332.5900	X-CUT
						12	149+55	-45.84	10016.5300	14716.2500	X-CUT
						13	153+00	46.94	9925.6400	15061.0500	X-CUT
						14	162+28	46.34	9931.3200	15989.1600	X-CUT
						15	167+48	-45.64	10026.1500	16508.9400	X-CUT
						16	173+05	44.45	9939.1000	17065.9200	X-CUT
						17	176+30	48.88	9936.4500	17391.2300	X-CUT
						18	182+88	50.45	9938.4800	18048.8800	X-CUT
						19	188+59	-63.25	10055.3100	18619.7500	X-CUT
						20	194+61	59.57	9920.7100	19220.5000	X-CUT
						21	202+23	-50.23	10013.2200	19984.4100	X-CUT
						22	204+99	-50.90	10007.6200	20261.0600	X-CUT
						23	208+22	-50.28	9999.6800	20584.1800	X-CUT

FILE NAME = D160F26-ah-ATB.dgn
PLOT DATE = 3/30/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

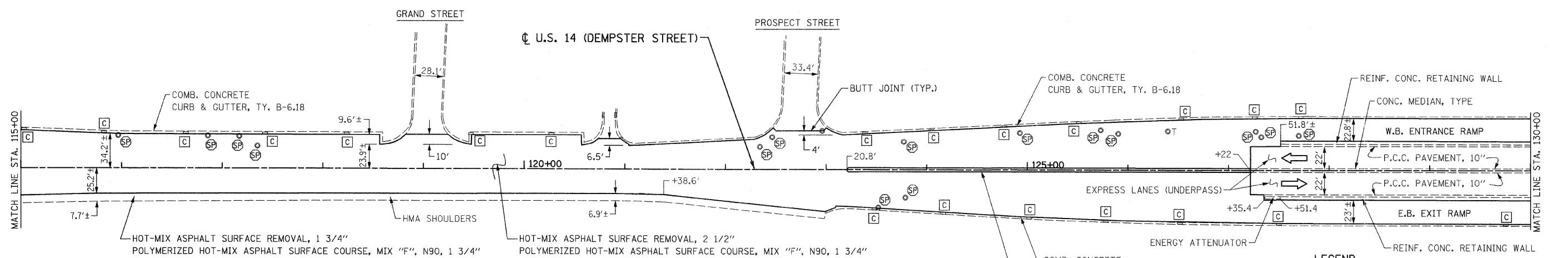
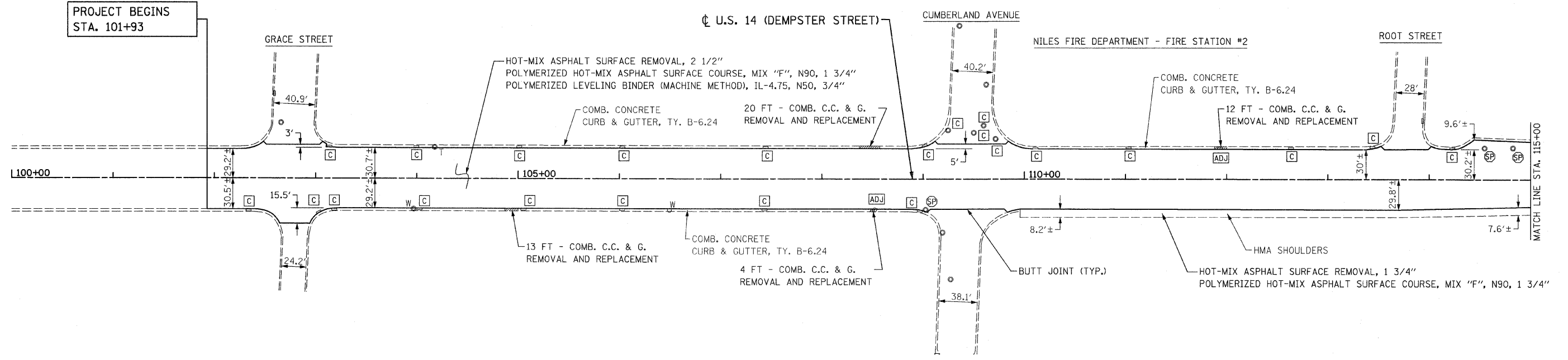
DESIGNED - K.R.K.	REVISED -
DRAWN - K.R.K.	REVISED -
CHECKED - G.F.L.	REVISED -
DATE - MARCH 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN
US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)

SCALE: 1" = 100' SHEET NO. 1 OF 1 SHEETS STA. 101+93 TO STA. 209+14

F.A.U. RTE. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 7
CONTRACT NO. 60F26				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS (ADJUSTMENTS PERFORMED BY OTHERS)
 - ⊕ FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - DRAINAGE STRUCTURES TO BE CLEANED
 - ADJ FRAMES AND LIDS TO BE ADJUSTED

FILE NAME = D160F26-shr-plan01.dgn
 PLOT DATE = 3/30/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

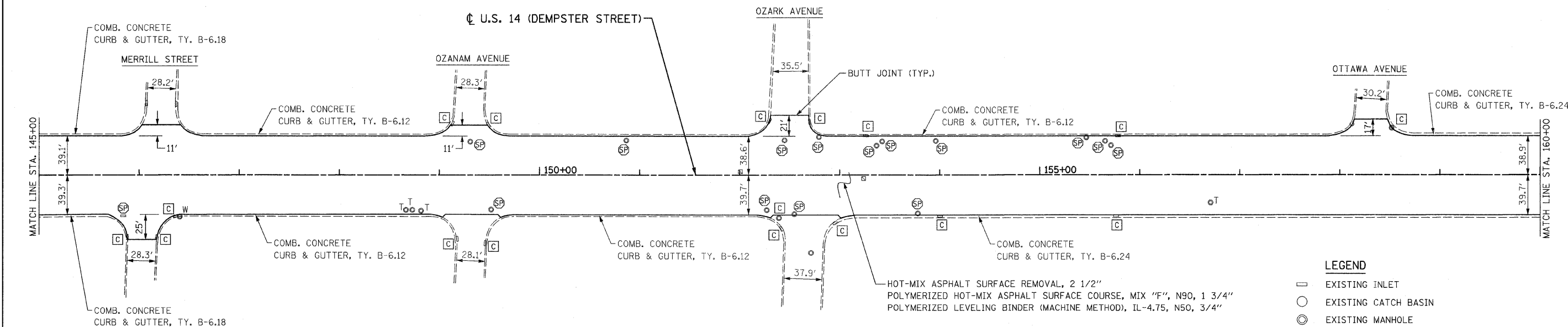
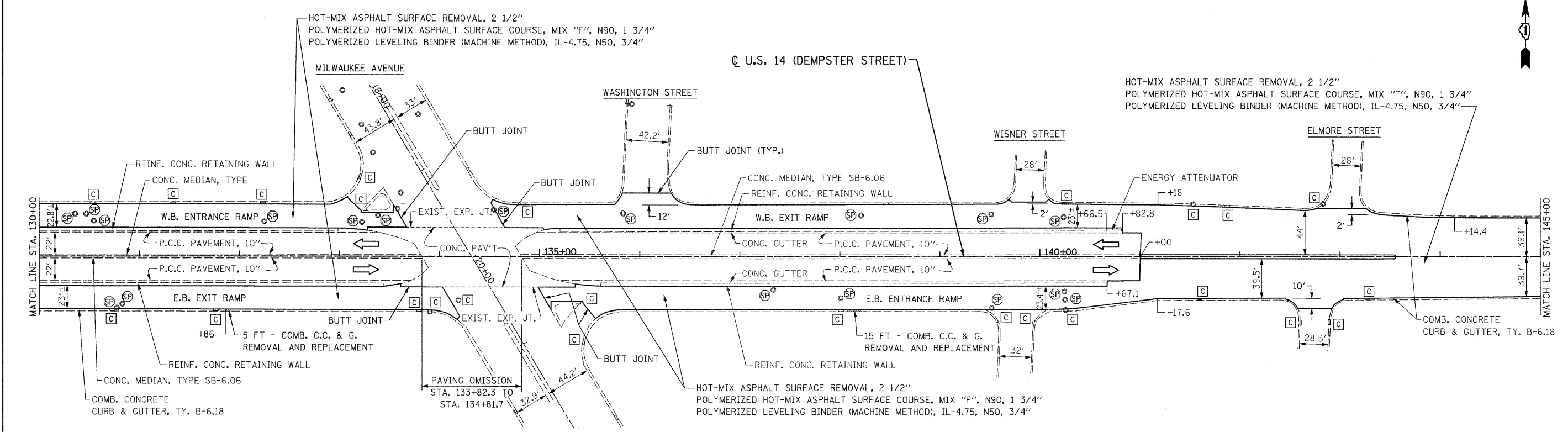
DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)**

SCALE: 1" = 50' SHEET NO. 1 OF 4 SHEETS STA. 101+93 TO STA. 130+00

F.A.U. RTE. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 8
CONTRACT NO. 60F26				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



- LEGEND**
- ◻ EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS (ADJUSTMENTS PERFORMED BY OTHERS)
 - ⊕ FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - ⊔ DRAINAGE STRUCTURES TO BE CLEANED
 - ADJ FRAMES AND LIDS TO BE ADJUSTED

FILE NAME = D:\60F26-sht-plan02.dgn
 PLOT DATE = 3/30/2009

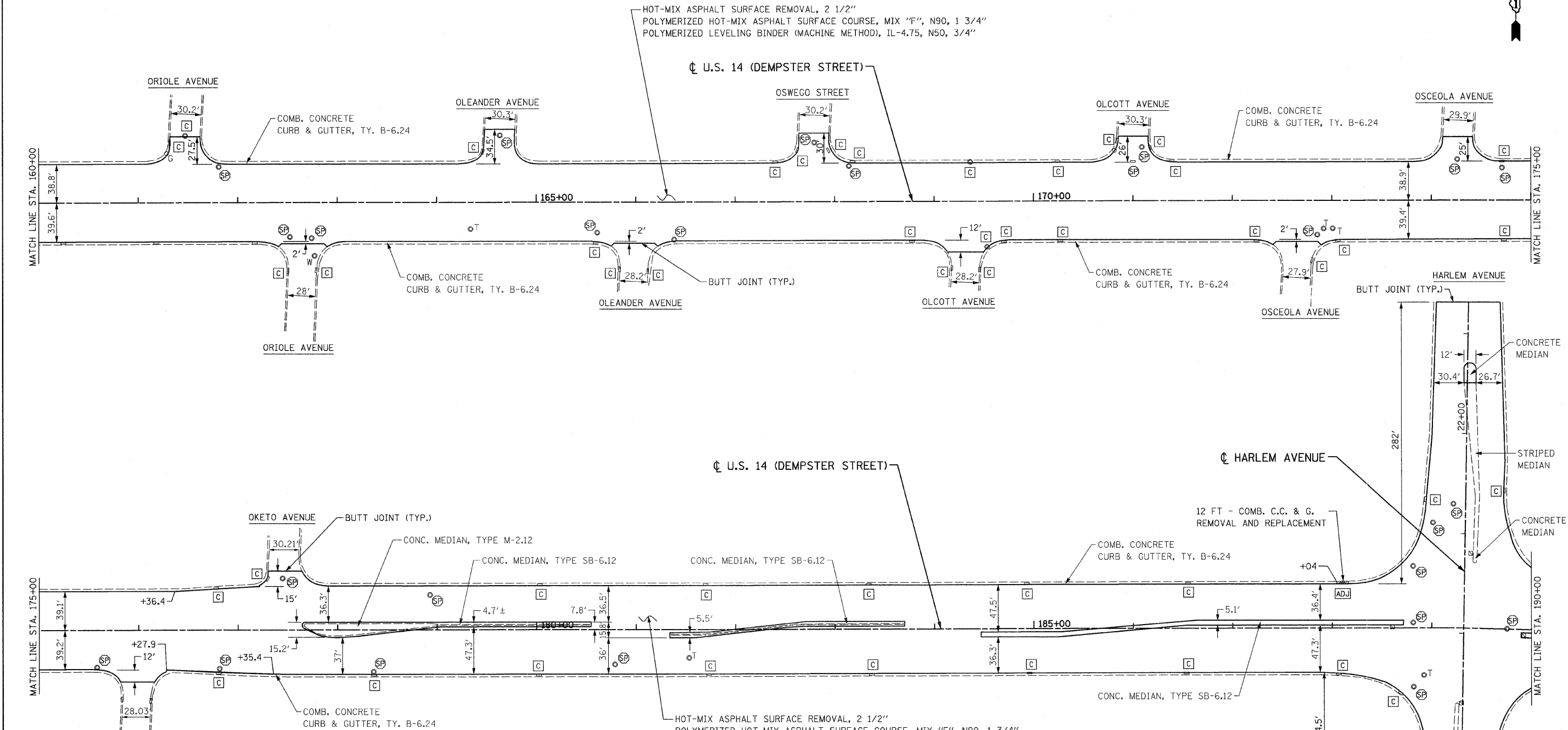
CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)
 SCALE: 1" = 50' SHEET NO. 2 OF 4 SHEETS STA. 130+00 TO STA. 160+00

F.A.U. RTE. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 9
CONTRACT NO. 60F26				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - ⊕ FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - DRAINAGE STRUCTURES TO BE CLEANED
 - ADJ FRAMES AND LIDS TO BE ADJUSTED

FILE NAME = D160F26-sht-plan03.dgn
 PLOT DATE = 3/30/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

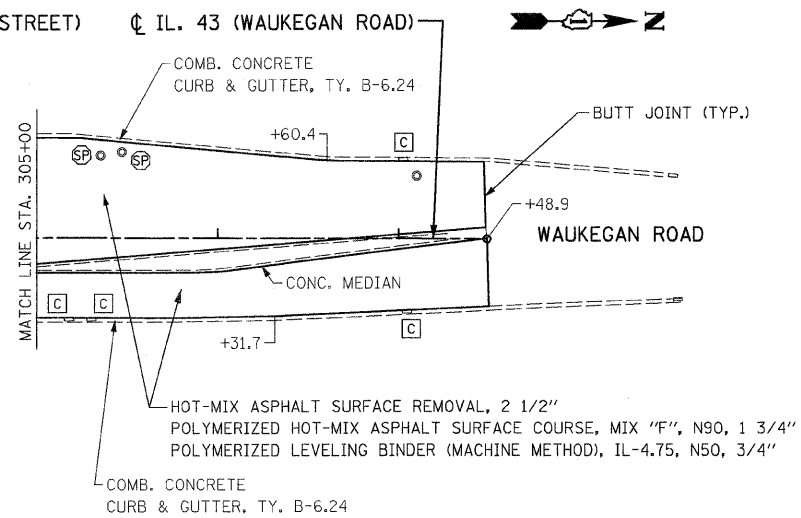
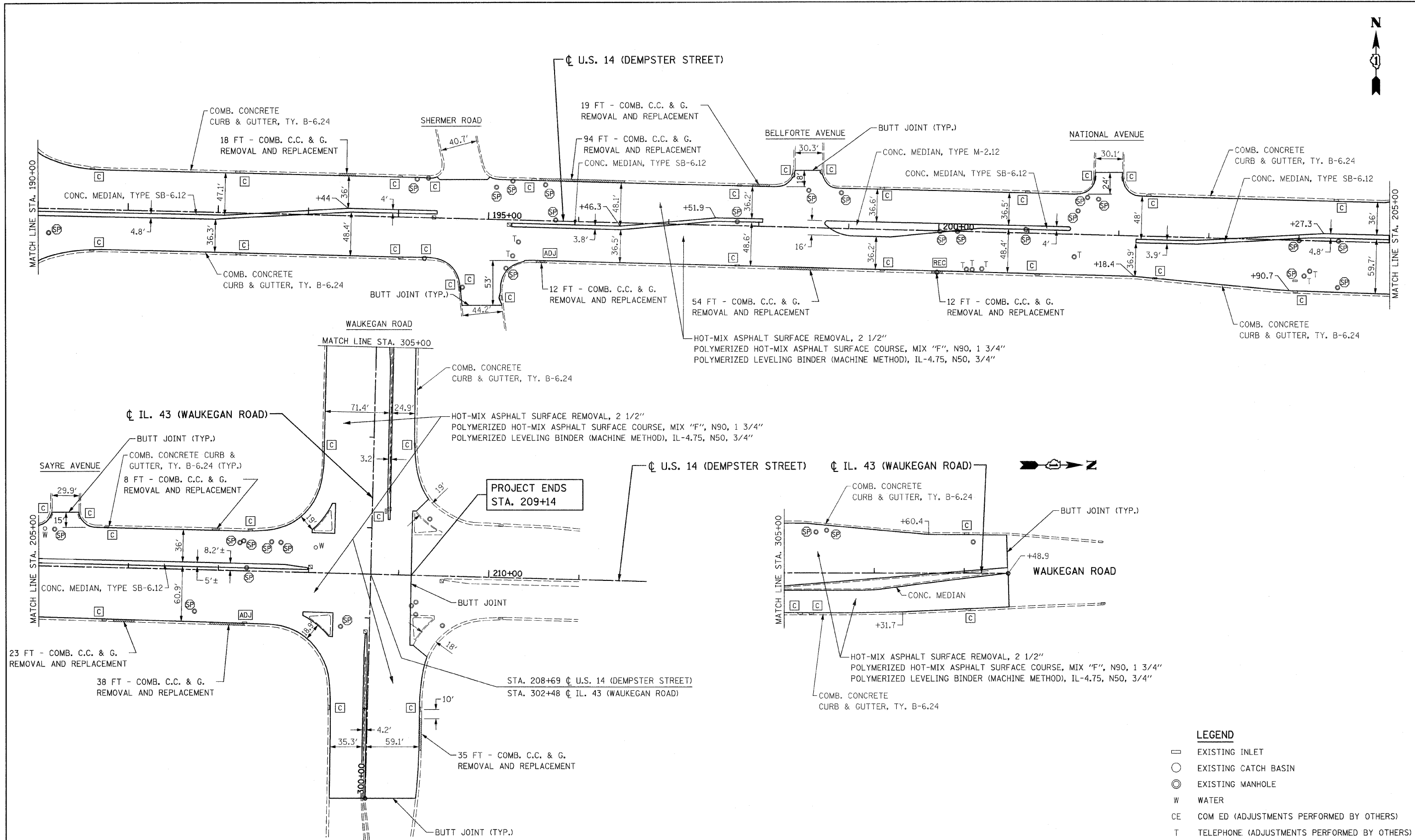
DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)**

SCALE: 1" = 50' SHEET NO. 3 OF 4 SHEETS STA. 160+00 TO STA. 190+00

F.A.U. RTE. 1324	SECTION 3228 D-2-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 10
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F26	



- LEGEND**
- ◻ EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS (ADJUSTMENTS PERFORMED BY OTHERS)
 - SP FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - C DRAINAGE STRUCTURES TO BE CLEANED
 - ADJ FRAMES AND LIDS TO BE ADJUSTED

FILE NAME = D160F26-ah-Plan04.dgn
 PLOT DATE = 3/30/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

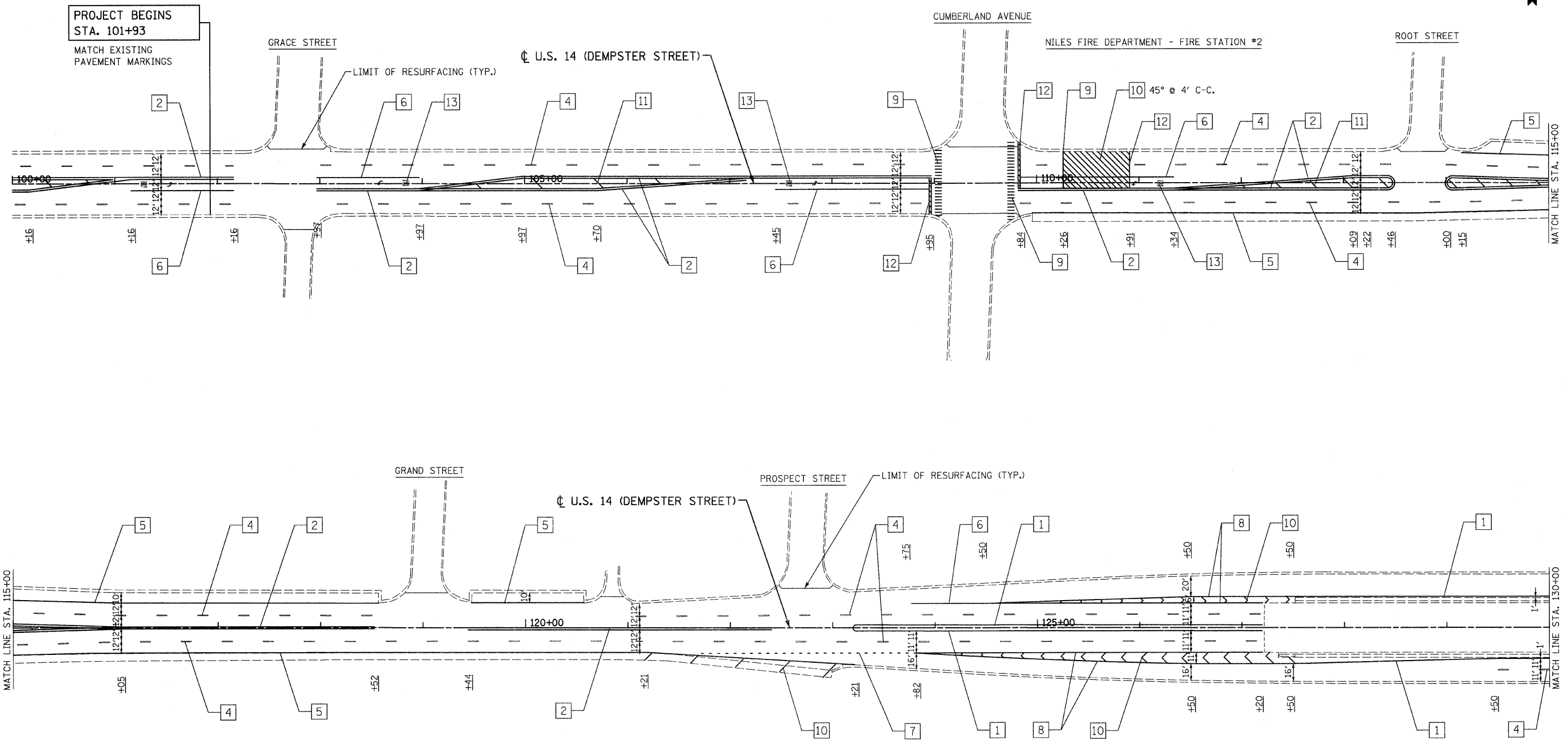
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DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)**

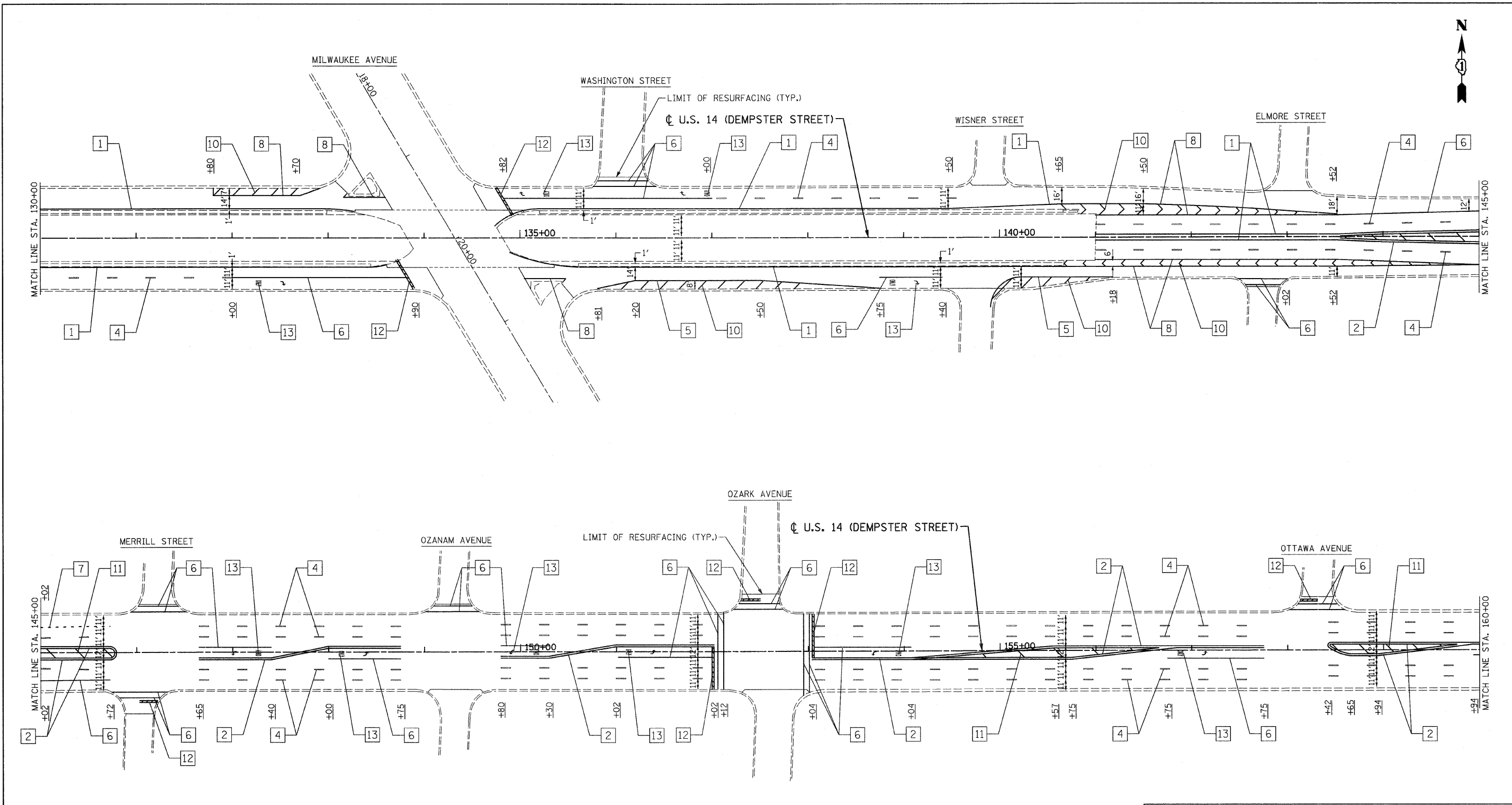
SCALE: 1" = 50' SHEET NO. 4 OF 4 SHEETS STA. 190+00 TO STA. 209+14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-2-Y-RS-1	COOK	32	11
CONTRACT NO. 60F26				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



<p>LEGEND</p> <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)</p> <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)</p>	<p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)</p> <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)</p>	<p>9 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)</p> <p>10 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)</p> <p>11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)</p> <p>12 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)</p> <p>13 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)</p>
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FILE NAME = D:\60F26-shr\pm01.dgn PLOT DATE = 3/30/2009	 CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	DESIGNED - G.F.L. DRAWN - B.K. CHECKED - M.P. DATE - MARCH 2009	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)	F.A.J. R.T.E. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 12	CONTRACT NO. 60F26
SCALE: 1" = 50' SHEET NO. 1 OF 4 SHEETS STA. 101+93 TO STA. 130+00						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



NOTES:

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28

<p>LEGEND</p> <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)</p> <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)</p>	<p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)</p> <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)</p>	<p>9 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)</p> <p>10 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)</p> <p>11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)</p> <p>12 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)</p> <p>13 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)</p>
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FILE NAME = D160F26-sh1-pm02.dgn
 PLOT DATE = 3/30/2009



CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
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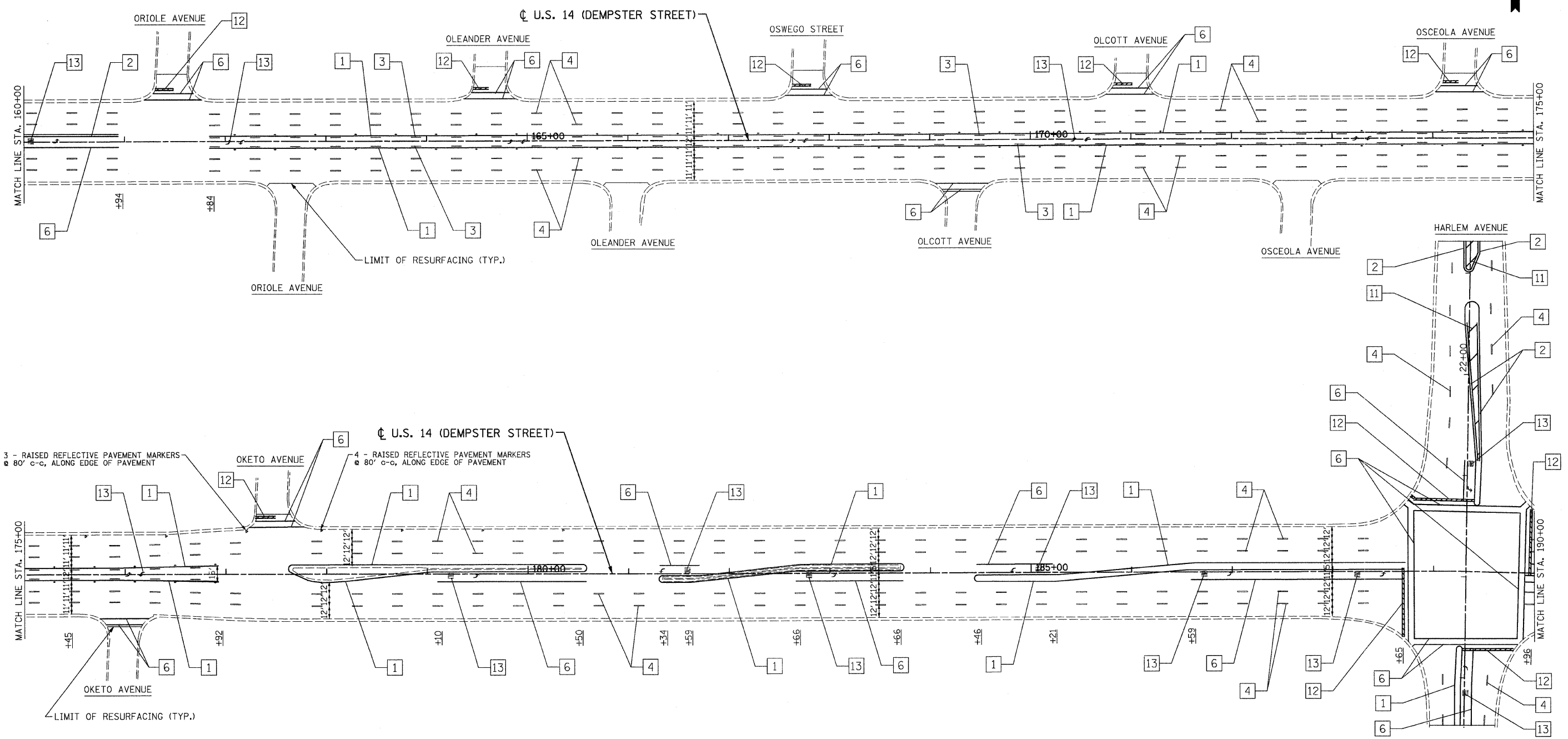
DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)

SCALE: 1" = 50' SHEET NO. 2 OF 4 SHEETS STA. 130+00 TO STA. 160+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-2-Y-RS-1	COOK	32	13
				CONTRACT NO. 60F26
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3 - RAISED REFLECTIVE PAVEMENT MARKERS
 @ 80' C-C, ALONG EDGE OF PAVEMENT

4 - RAISED REFLECTIVE PAVEMENT MARKERS
 @ 80' C-C, ALONG EDGE OF PAVEMENT

NOTES:

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28

LEGEND		PAVEMENT MARKING	
1	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)	5	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)
2	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)	6	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
3	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)	7	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)
4	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)	8	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)
		9	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)
		10	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
		11	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)
		12	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
		13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)

FILE NAME = D160F26-sht-pm03.dgn
 PLOT DATE = 3/30/2009



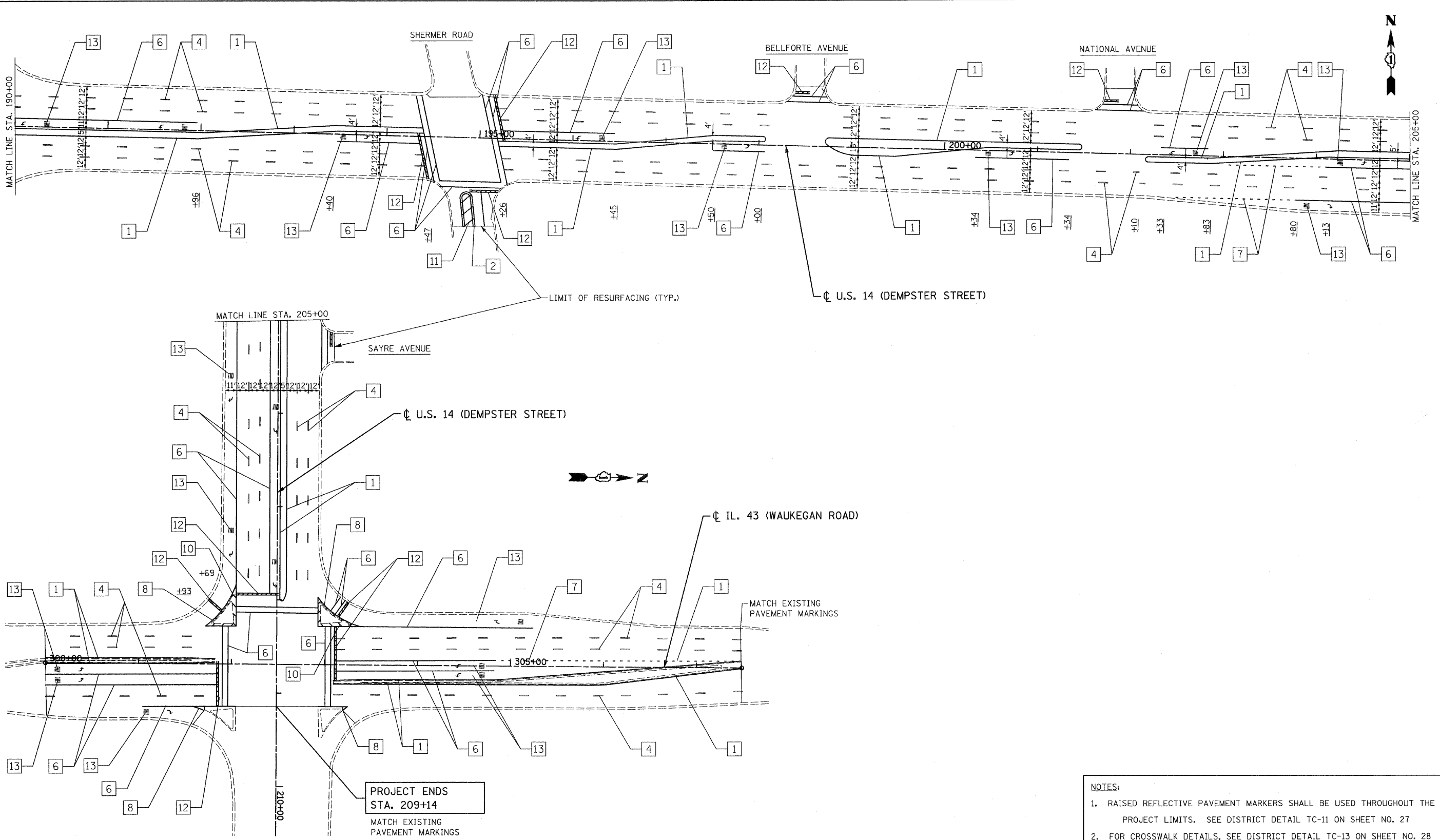
DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING
 US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)**

SCALE: 1" = 50' SHEET NO. 3 OF 4 SHEETS STA. 160+00 TO STA. 190+00

F.A.I. R.T.E. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 14
CONTRACT NO. 60F26				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



NOTES:

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28

LEGEND					
1	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)	5	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)	9	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)
2	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)	6	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)	10	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
3	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)	7	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)	11	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)
4	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)	8	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)	12	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
				13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)

FILE NAME = D:\60F26-ahf-pm04.dgn
 PLOT DATE = 3/30/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

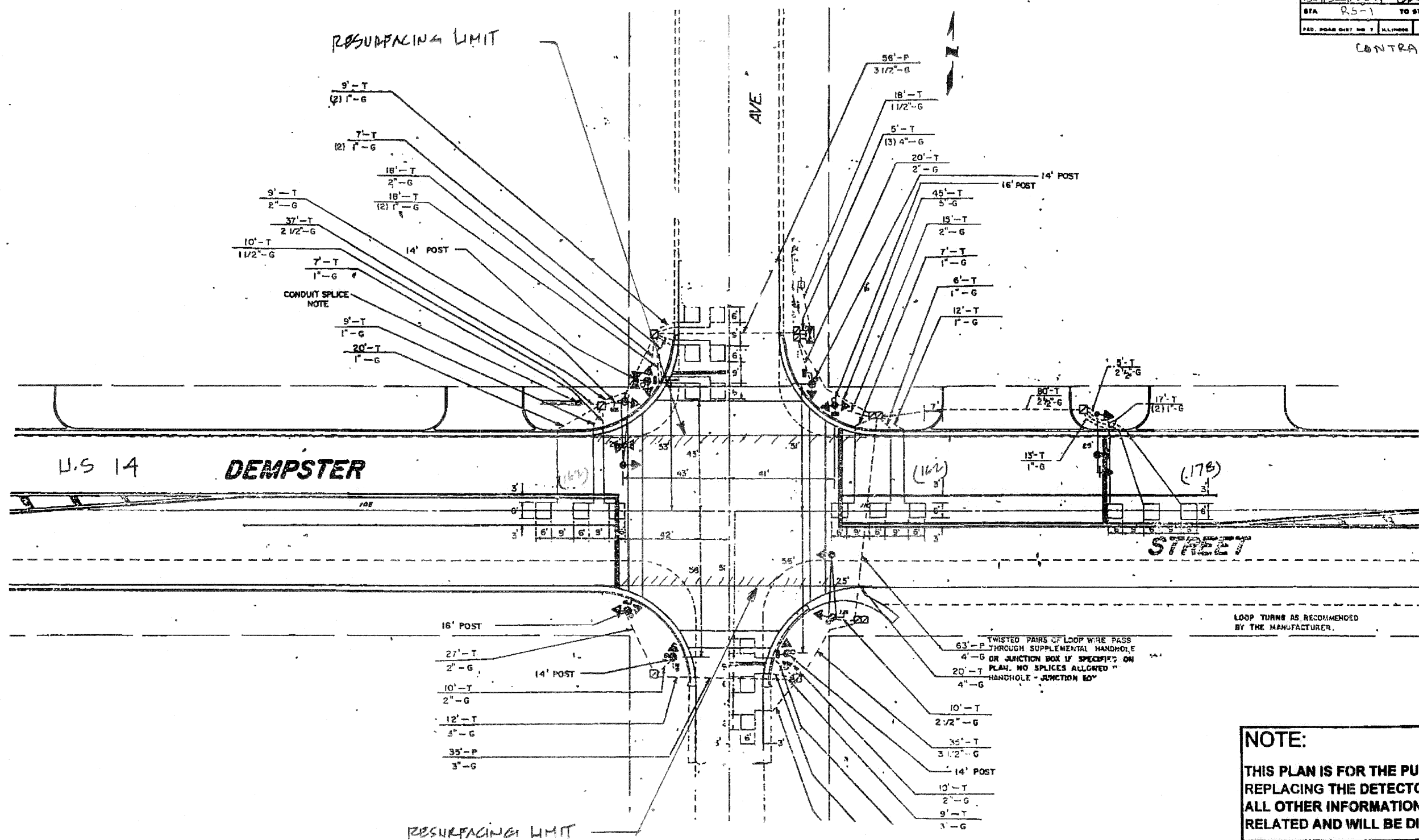
**PAVEMENT MARKING PLAN
 US 14 (DEMPSTER STREET) GRACE AVE. TO ILL 43 (WAUKEGAN RD.)**

SCALE: 1" = 50' SHEET NO. 4 OF 4 SHEETS STA. 190+00 TO STA. 209+14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-Z-Y-RS-1	COOK	32	15
CONTRACT NO. 60F26				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

T. & E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-2-V	COOK	32	16
STA. R5-1		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT # 60F26



TWISTED PAIRS OF LOOP WIRE PASS THROUGH SUPPLEMENTAL HANDHOLE OR JUNCTION BOX IF SPECIFIED ON PLAN. NO SPLICES ALLOWED IN HANDHOLE - JUNCTION BOX

LOOP TURNS AS RECOMMENDED BY THE MANUFACTURER.

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

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

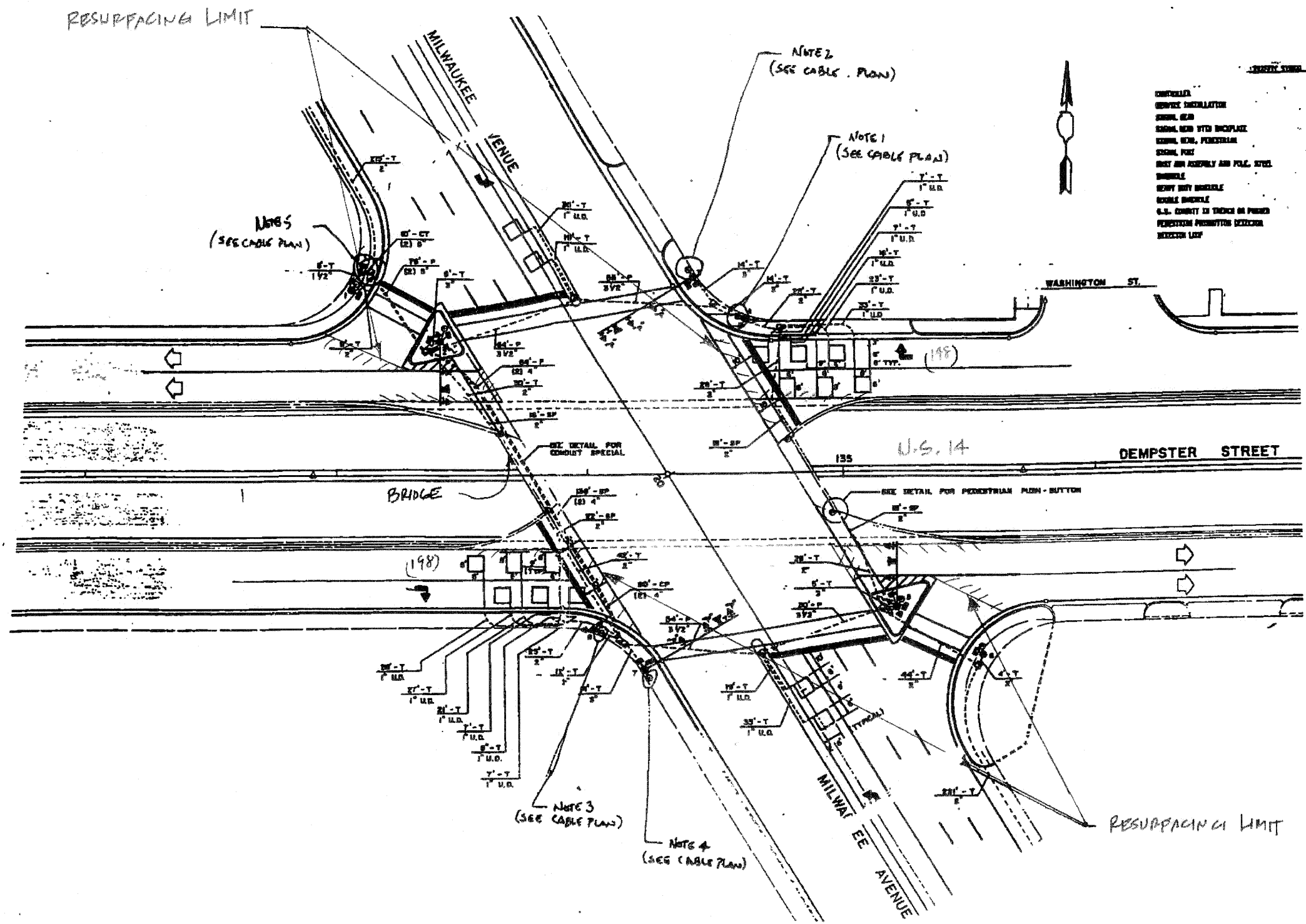
CODE NO.	QUANTITY	UNIT	ITEM
86600600	502	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
U.S. 14 (DEMPSTER) @ CUMBERLAND AVE
SCALE: NONE
DATE: Nov. 2008
DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132.4 322.8 D-Z	COOK	32	17
STA -Y-RS-1 TO STA			
FED. ROAD DIST. NO. 7	ILLINOIS	PER AID PROJECT	

CONTRACT NO. 60F26



- LEGEND**
- CONTROLLER
 - SERVICE INDICATOR
 - SIGNAL HEAD
 - SIGNAL HEAD WITH SIGNPLATE
 - SIGNAL HEAD, PEDESTRIAN
 - SIGNAL POST
 - HEAVY IRON ASSEMBLY AND POLE, STEEL
 - BRICKPILE
 - HEAVY IRON BRICKPILE
 - SCREW BRICKPILE
 - U.S. COUNTY 22 TRUCK OR PULVER
 - PEDESTRIAN PROTECTIVE BARRIER
 - DETECTABLE LOOP

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

CODE NO.	QUANTITY	UNIT	ITEM
80600600	396	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT

U.S. 14 (DEMPSTER) @ ILL. 21 (MILWAU. AV)

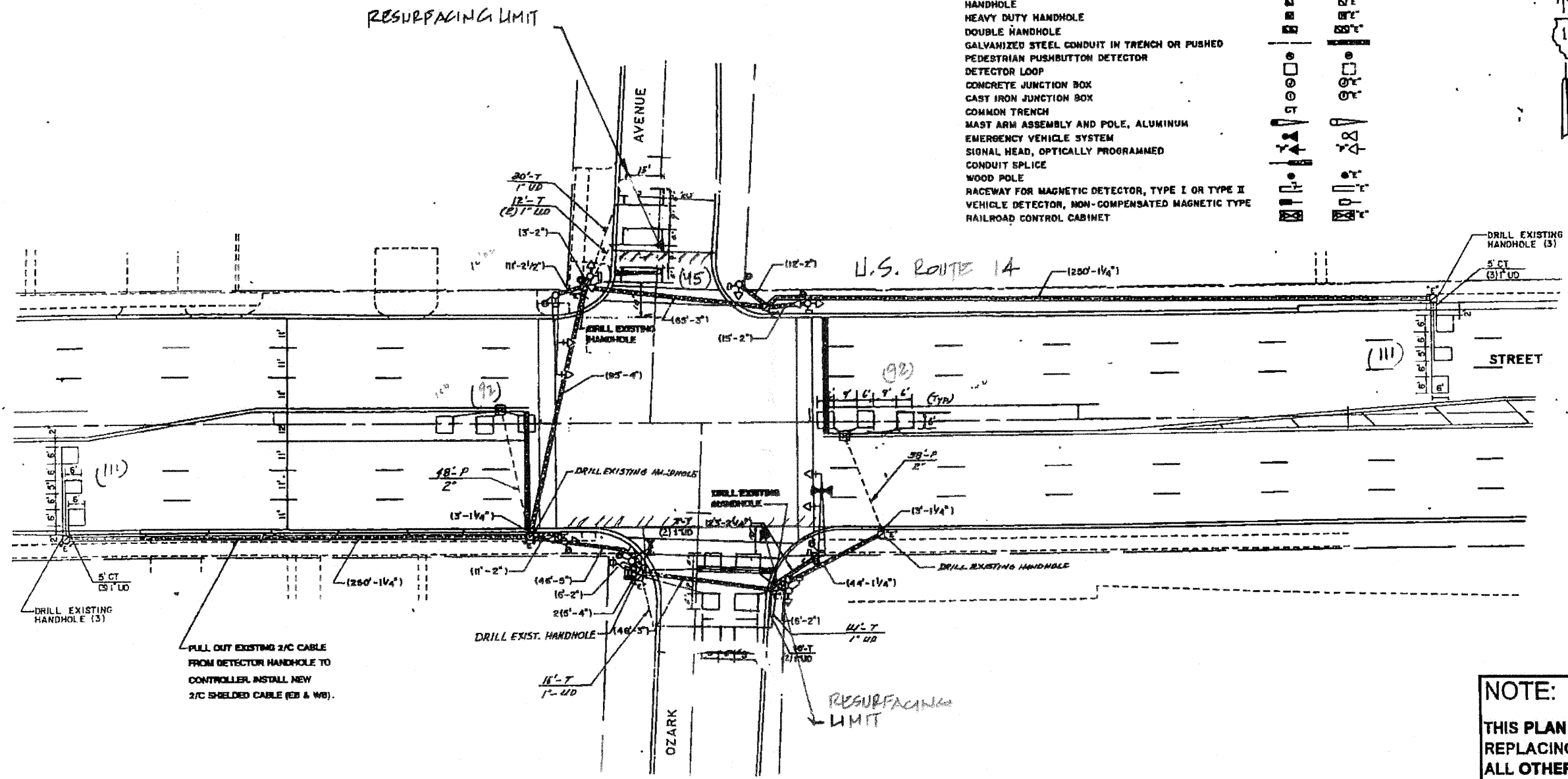
SCALE: NONE
DATE: Nov. 2008
DRAWN BY: JFE
DESIGNED BY: JFE
CHECKED BY: DAD

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324 3228 D-2	COOK	32	18
STA Y-RS-1 TO STA			

CONTRACT NO. 60F26

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD AND POST	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CONCRETE JUNCTION BOX	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM	[Symbol]	[Symbol]
SIGNAL HEAD, OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]



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

REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

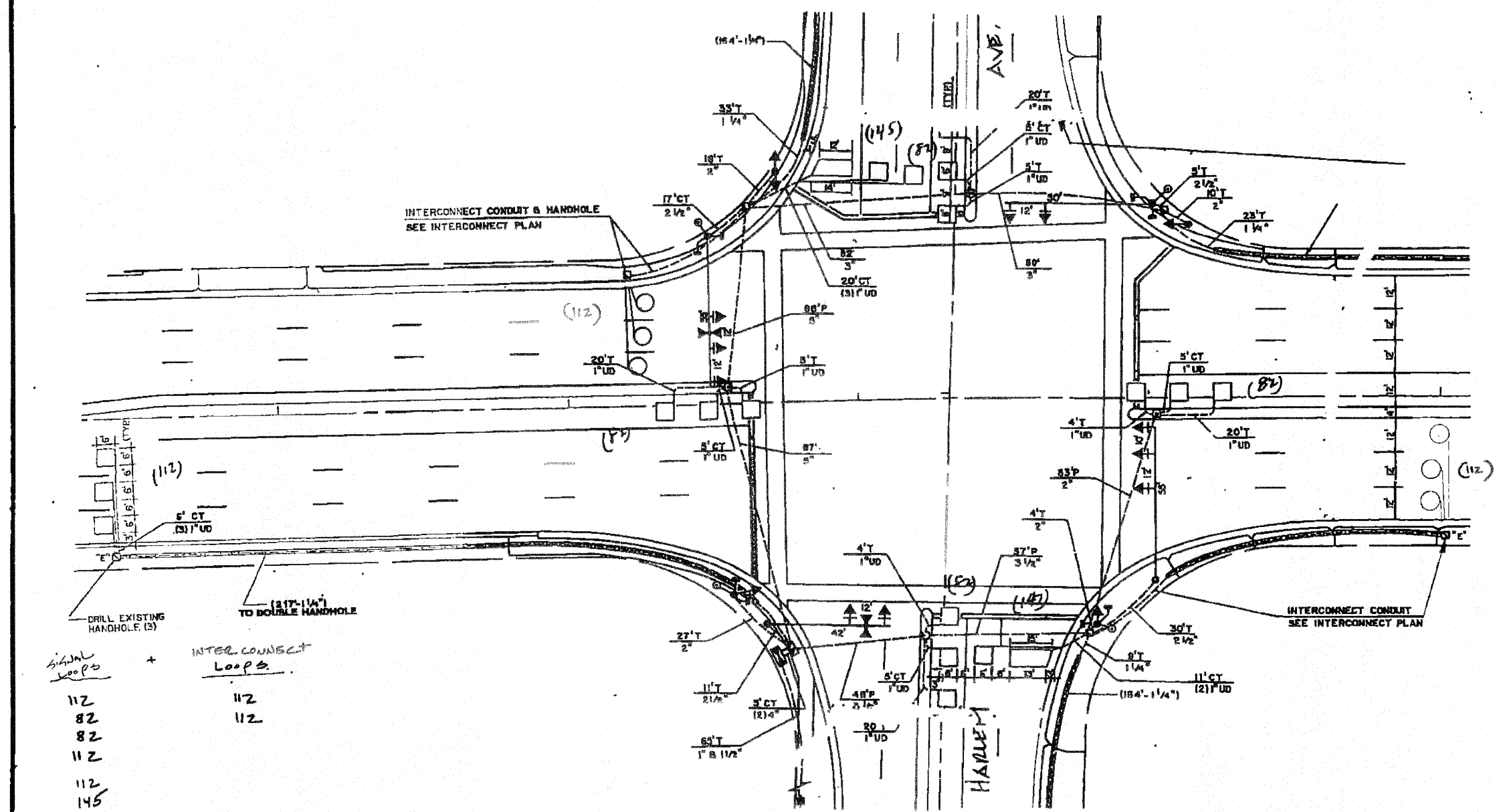
CODE NO.	QUANTITY	UNIT	ITEM
80600600	451	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 U.S. 14 (DEMPSTER) @ OZARK AV.
 SCALE: NONE
 DATE: NOV. 2008
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAB

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324 3228 D-2	COOK	32	19
STA Y-RS-1	TO STA		
FED. ROAD DIST. NO. 7	ILLINOIS	PROJ. AND SHEET	

CONTRACT NO. 60F26



SIGNAL Loops	+	INTERCONNECT Loops	=	
112		112		
82		112		
82				
112				
112				
145				
82				
82				
147				
66				
1,022	+	224	=	1,246

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

CODE NO.	QUANTITY	UNIT	ITEM
80600800	1,246	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT

U.S. 14 (DEMPSTER) @ HARLEM AV.

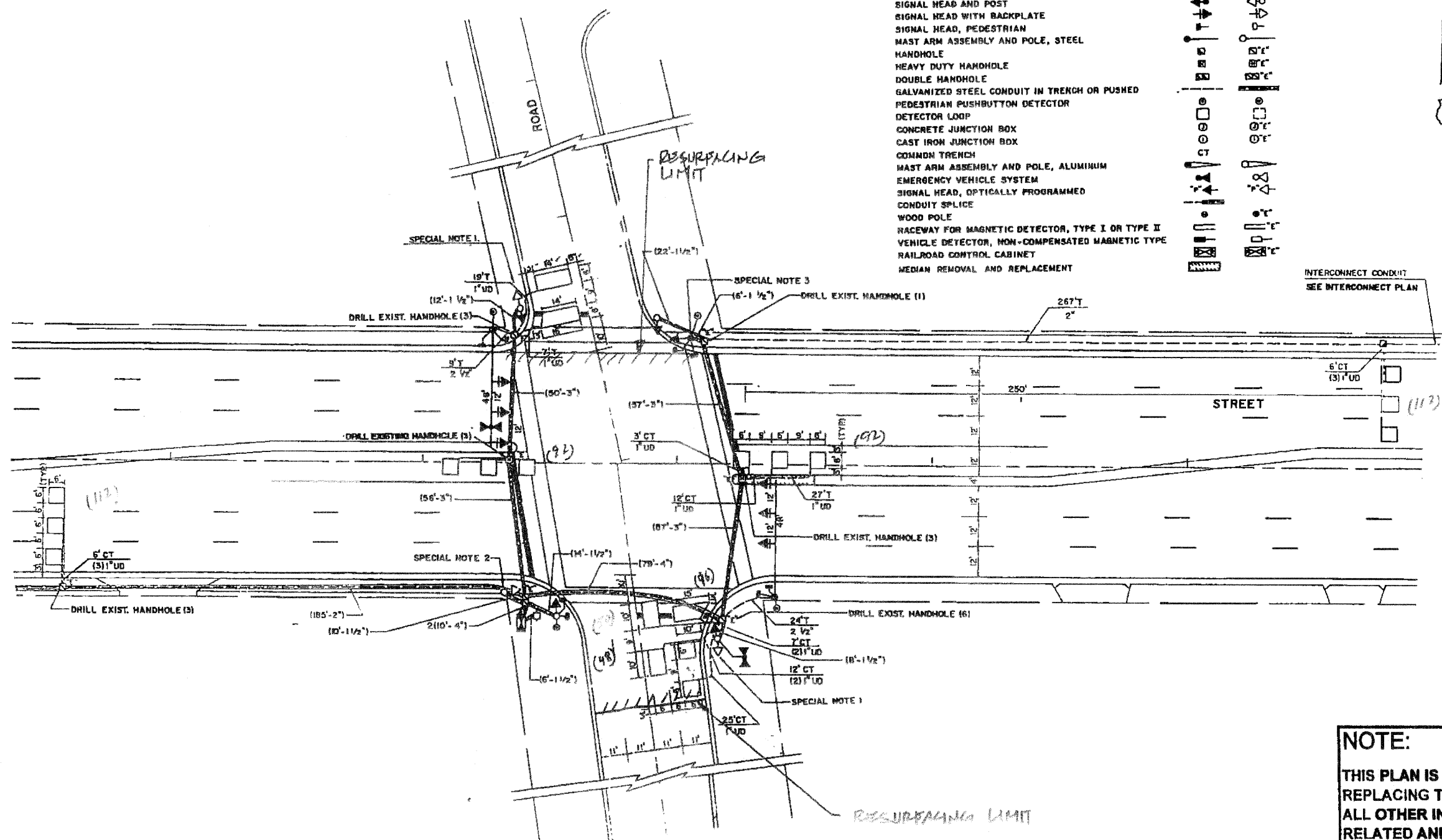
SCALE: NONE
DATE: Nov 1, 2008
DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-2	COOK	32	20
STA. 7-85-1	TO STA.			
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 60F26

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD AND POST		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CONCRETE JUNCTION BOX		
CAST IRON JUNCTION BOX		
COMMON TRENCH		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
EMERGENCY VEHICLE SYSTEM		
SIGNAL HEAD, OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
MEDIAN REMOVAL AND REPLACEMENT		



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

CODE NO.	QUANTITY	UNIT	ITEM
86600800	602	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

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

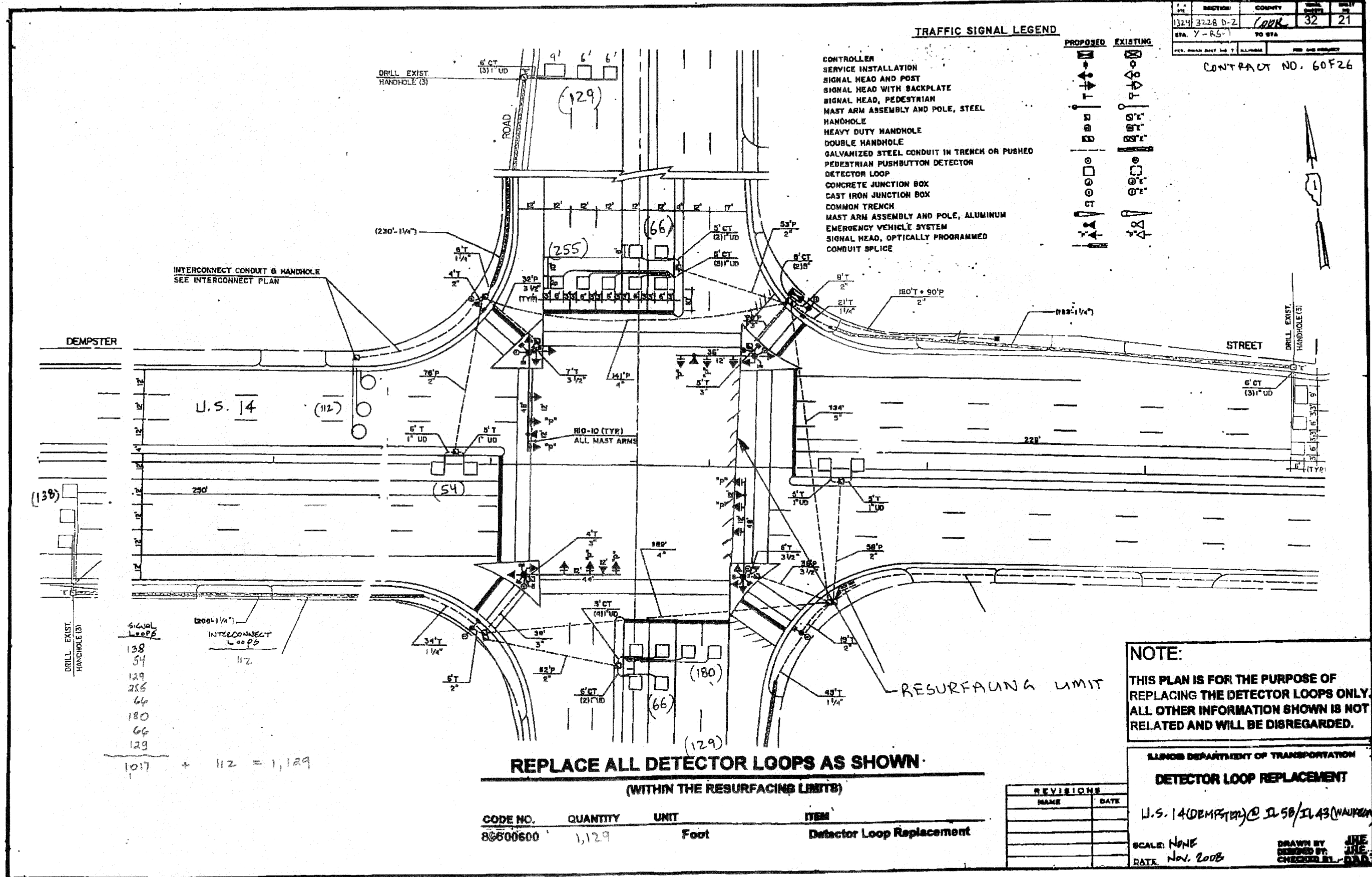
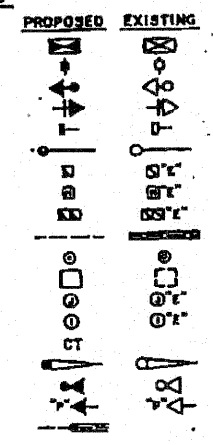
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
U.S. 14 (DEMPSTER) @ SHERMAN RD.
SCALE: NONE
DATE: Nov. 2008
DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
1324	3228 D-2	COOK	32	21
STA. 7+85.1		TO STA.		
PER. ROAD DIST. 1/2 T. ALLIANCE		FOR THE PROJECT		

CONTRACT NO. 60F26

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD AND POST
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- MAST ARM ASSEMBLY AND POLE, STEEL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- COMMON TRENCH
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- EMERGENCY VEHICLE SYSTEM
- SIGNAL HEAD, OPTICALLY PROGRAMMED
- CONDUIT SPLICE



SIGNAL Loops	
138	
54	
129	
286	
66	
180	
66	
129	
<hr/>	
1017	+ 112 = 1,129

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

CODE NO.	QUANTITY	UNIT	ITEM
80600600	1,129	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

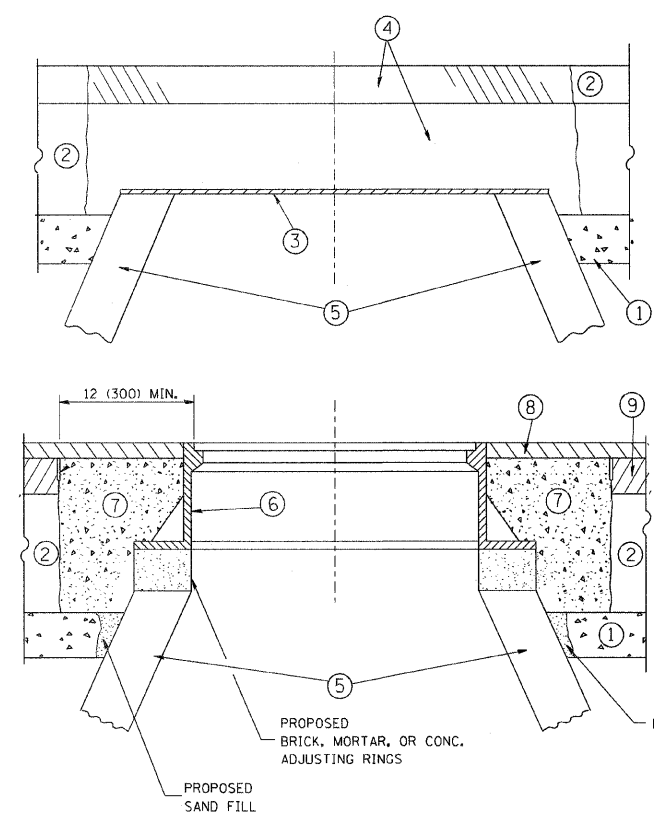
NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT

U.S. 14 (DEMPSTER) @ IL 58 / IL 43 (NAUKEON)

SCALE: NONE
DATE: Nov. 2008

DRAWN BY: JHE
CHECKED BY: JHE
DATE: 11/11/08



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 1/2 (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:

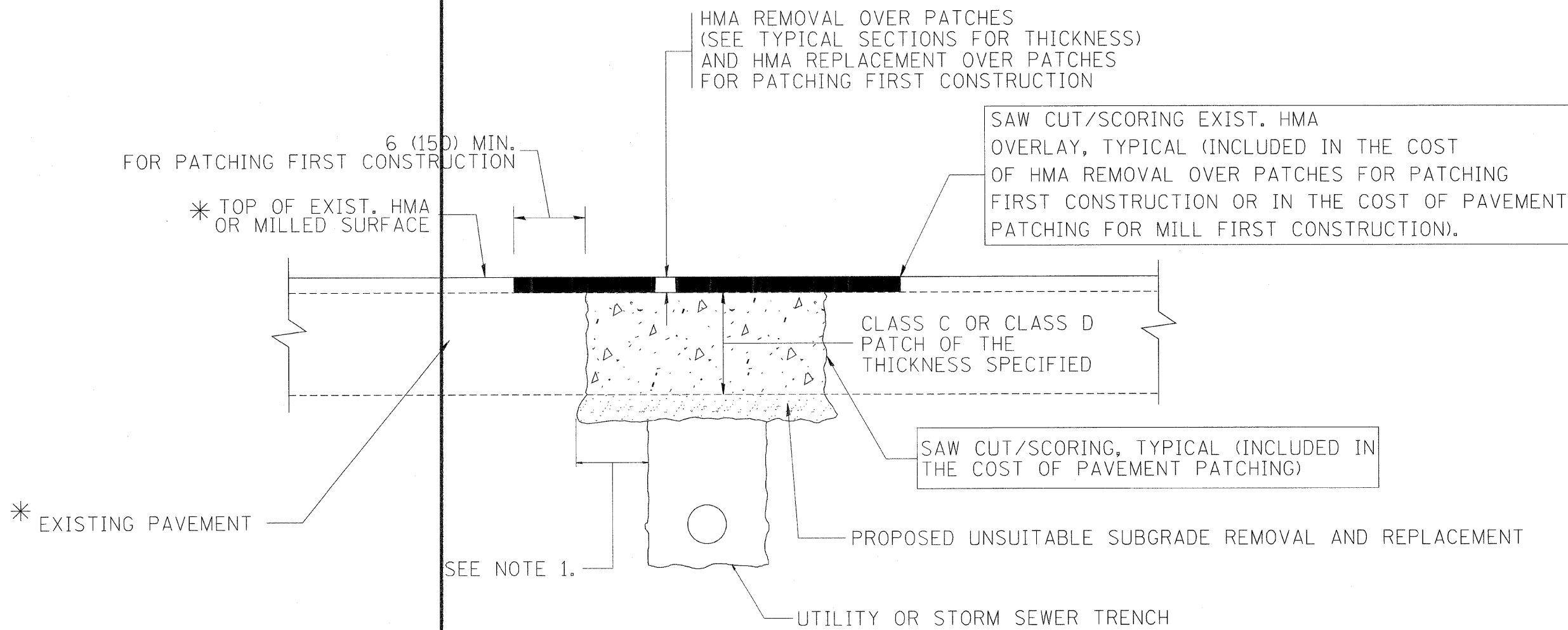
THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

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

FILE NAME = W:\diststd\22x34\bd98.dgn	USER NAME = gagliardi	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			F.A.U. RTE. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 22
	PLOT SCALE = 50.0000 "/ IN.	CHECKED -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 104+00 TO STA. 210+00	BD600-03 (BD-8)		CONTRACT NO. 60F26		
	PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. WIEDEMAN 05-14-04		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
			REVISED - R. BORO 01-01-07									



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

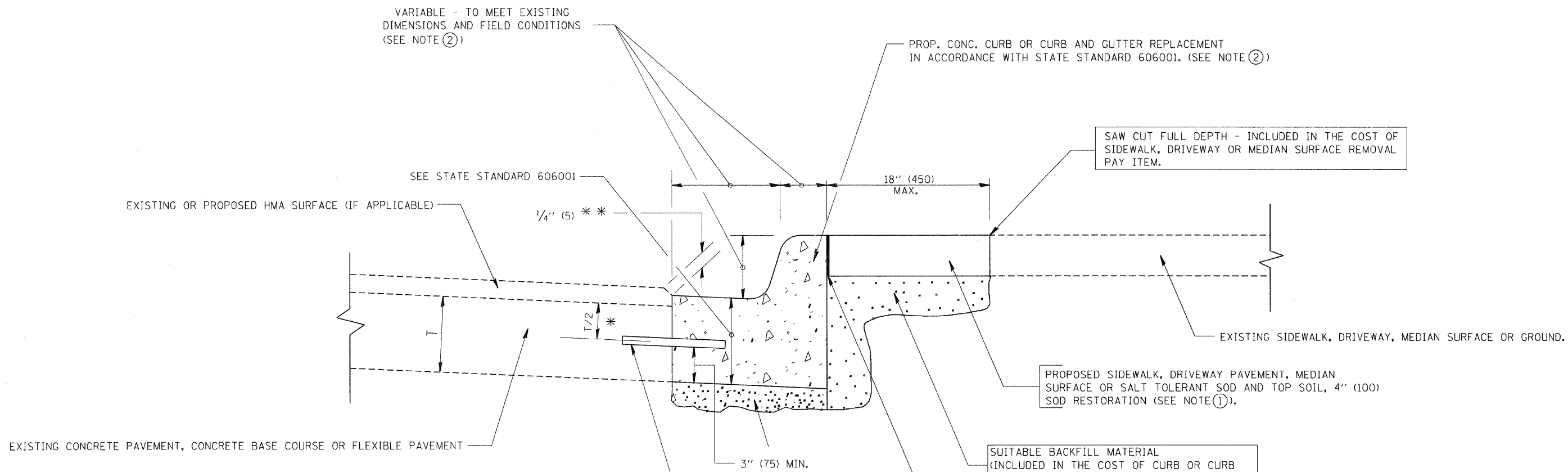
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			FAU 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 23
	PLOT SCALE = 50,000' / IN.	CHECKED -	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		
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - R. BORO 09-04-07		BD400-04 (BD-22) CONTRACT NO. 60F26							
			REVISED - K. ENG 10-27-08									



* 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.

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.

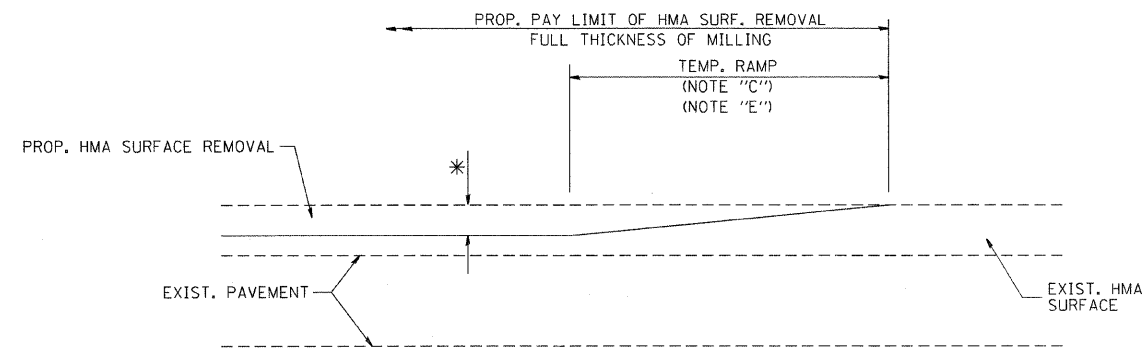
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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".

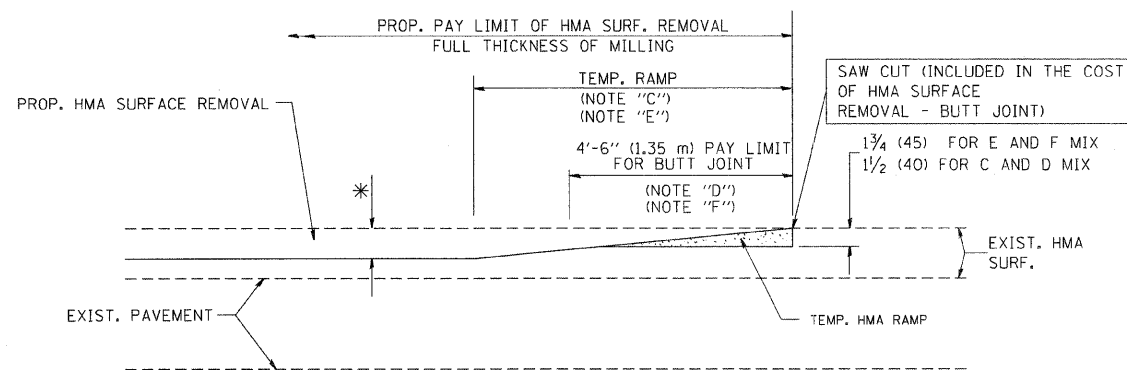
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME = W:\diststd\22x34\bd24.dgn	USER NAME = gaglianobt	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. FILE: 1324	SECTION: 3228 D-Z-Y-RS-1	COUNTY: COOK	TOTAL SHEETS: 32	SHEET NO.: 24
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01			BD600-06 (BD-24)		CONTRACT NO. 60F26		
	PLOT DATE = 1/4/2008	DATE - 03-11-94	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS		STA. 104+00		TO STA. 210+00

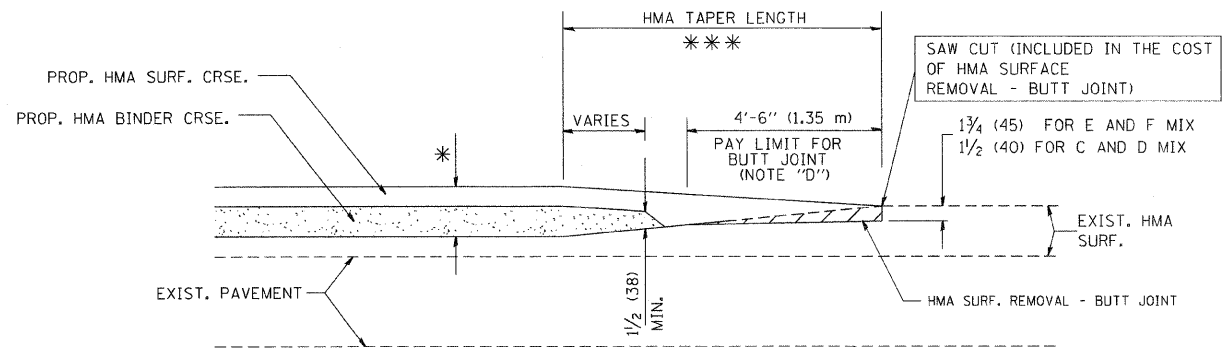


OPTION 1

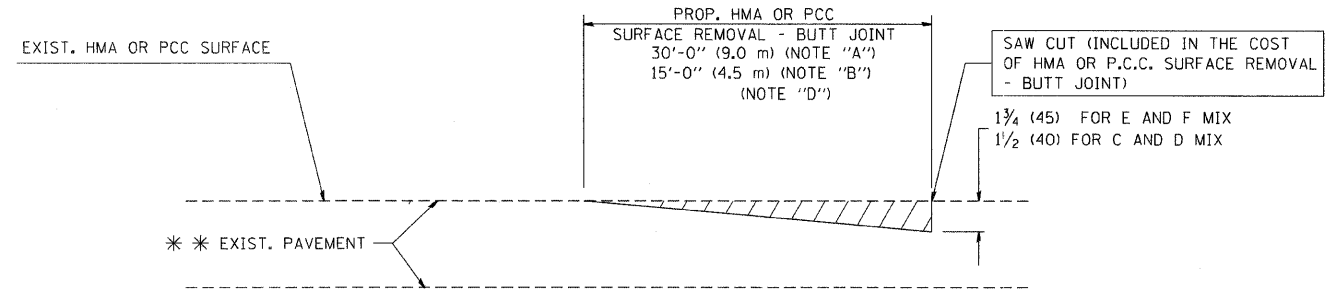


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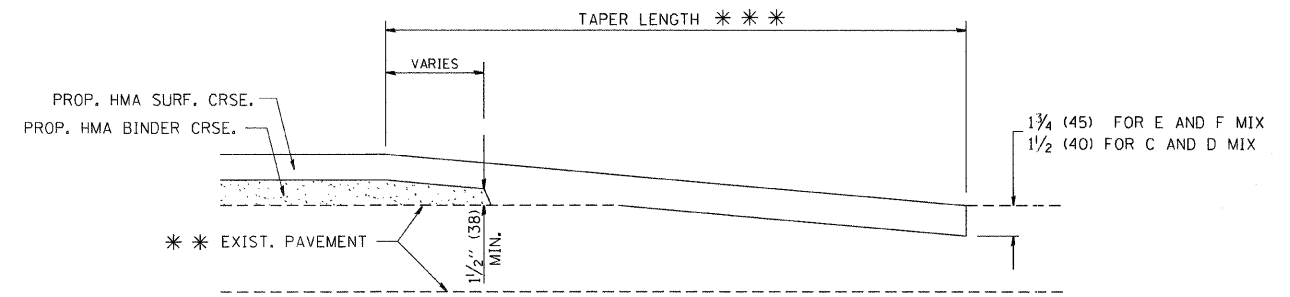
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

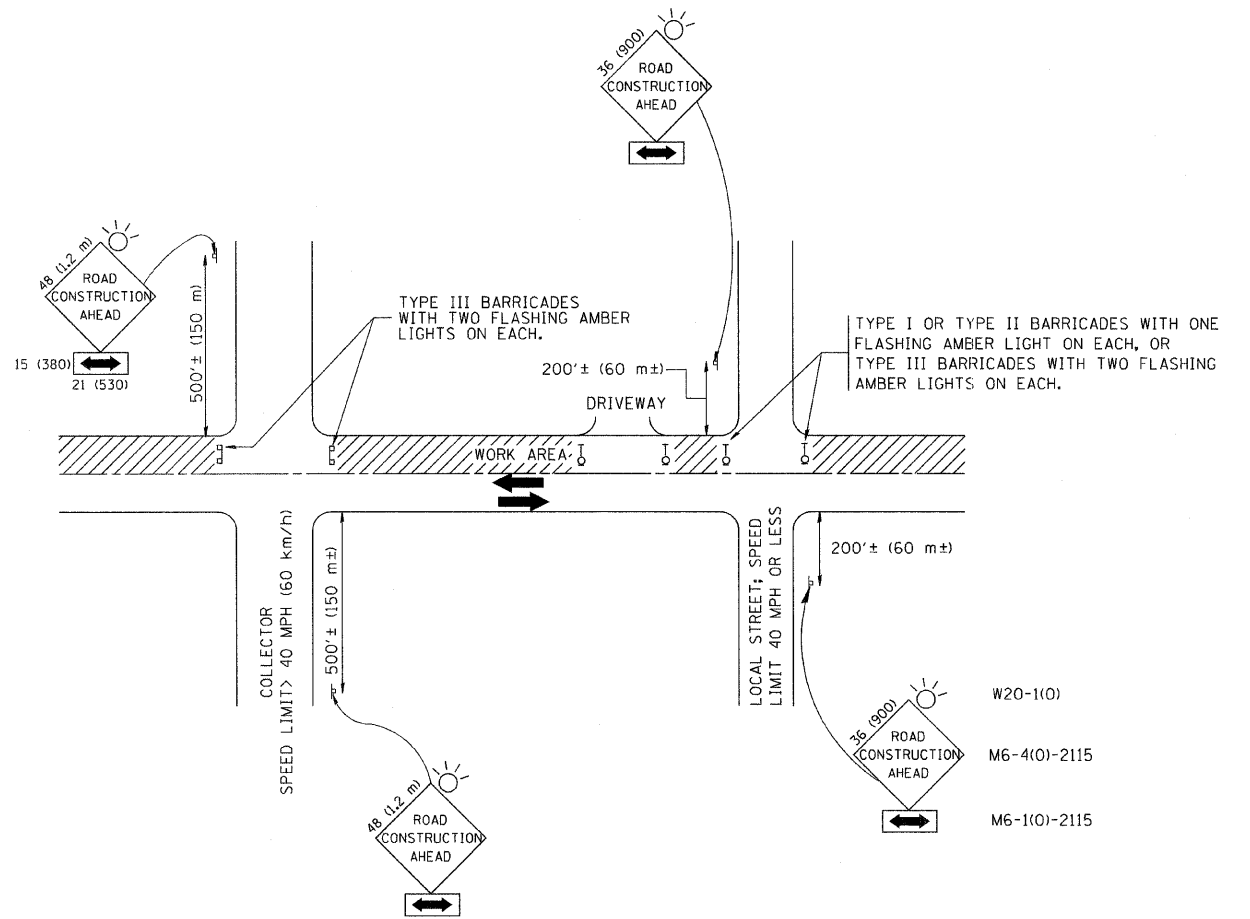
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS		FAU. RTE. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 25	
PLOT SCALE = 500.0000 1/16 IN.	CHECKED - M. GOMEZ 04-06-01	DATE 06-13-90	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 104+00 TO STA. 210+00	BD400-05 BD32		CONTRACT NO. 60F26		
PLOT DATE = 1/4/2008	DATE 06-13-90	REVISED - R. BORO 01-01-07			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 70150), 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.

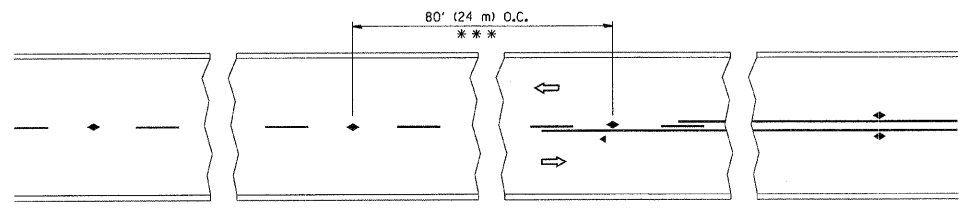
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W:\diststd\22x34\1c18.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

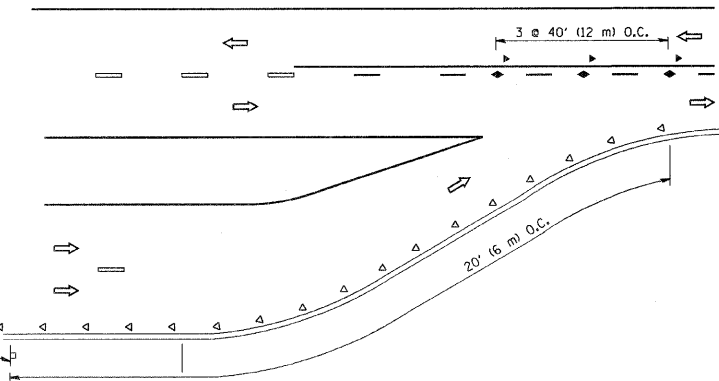
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 104+00 TO STA. 210+00

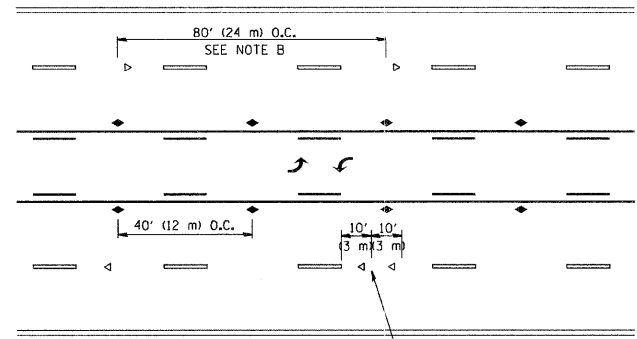
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1324	3228 D-Z-Y-RS-1	COOK	32	26
TC-10		CONTRACT NO. 60F26		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



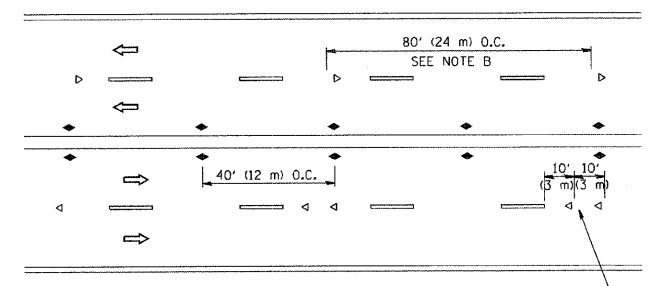
TWO-LANE/TWO-WAY



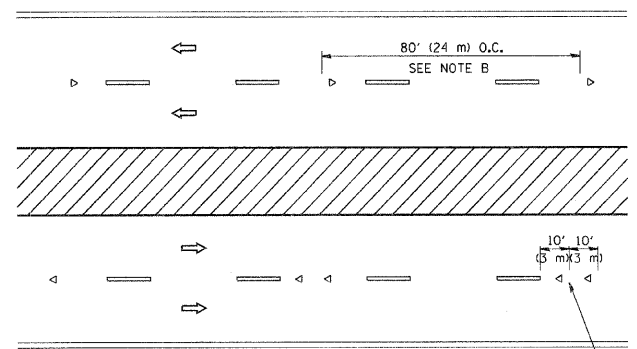
LANE REDUCTION TRANSITION



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

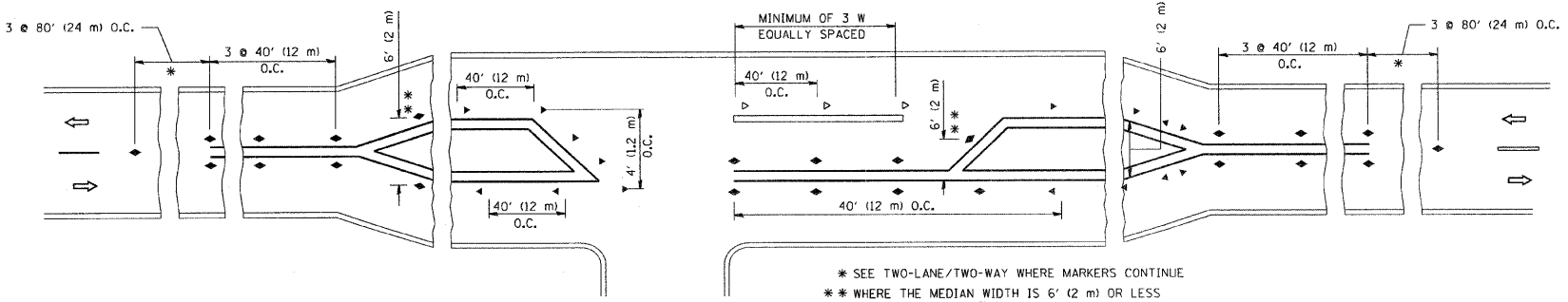
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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

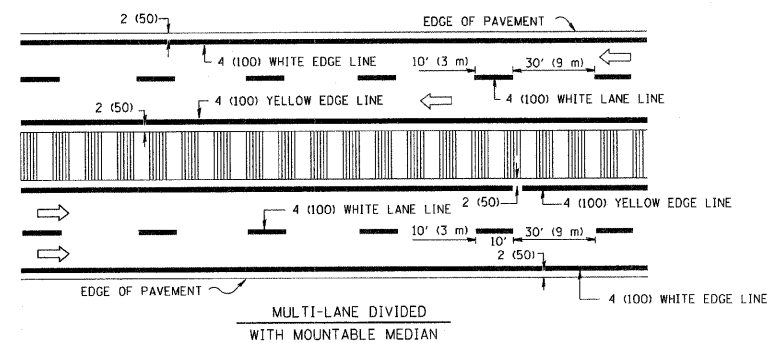
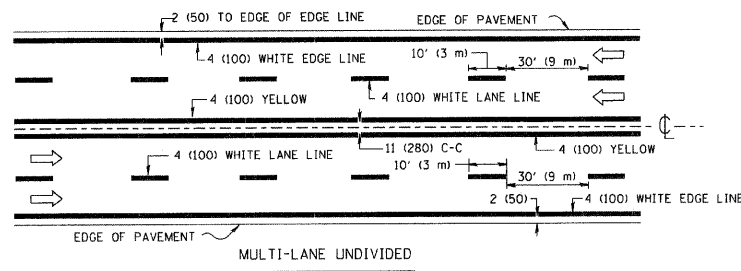
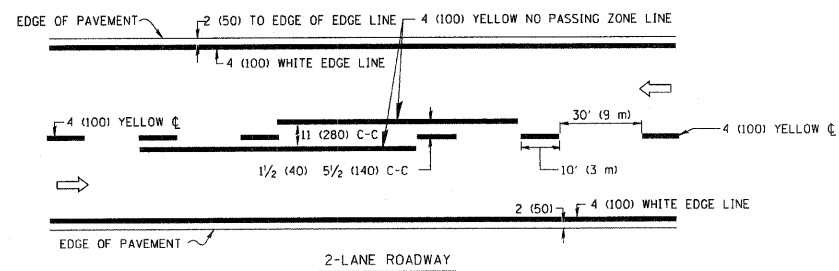
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD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



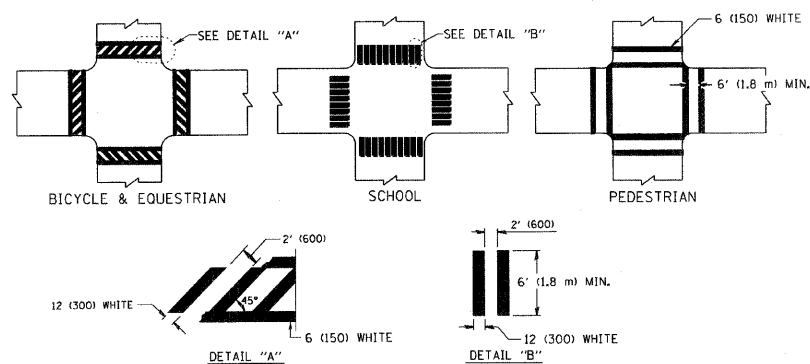
LEFT TURN

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

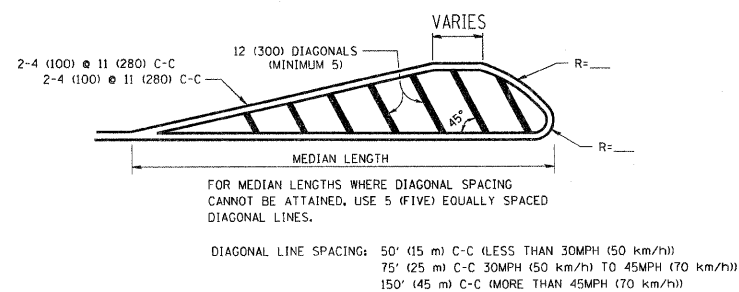
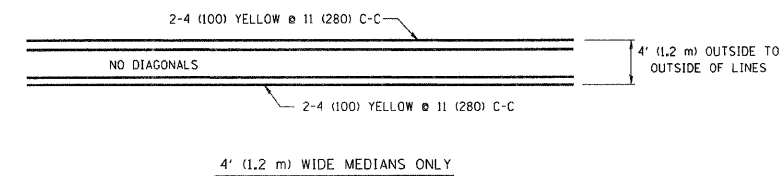
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T, RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 104+00 TO STA. 210+00	1324	3228 D-Z-Y-RS-1	COOK	32	27
PLOT DATE = 1/4/2008	DATE -	REVISED - T, RAMMACHER 01-06-00	REVISED -				TC-11		CONTRACT NO. 60F26			
							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



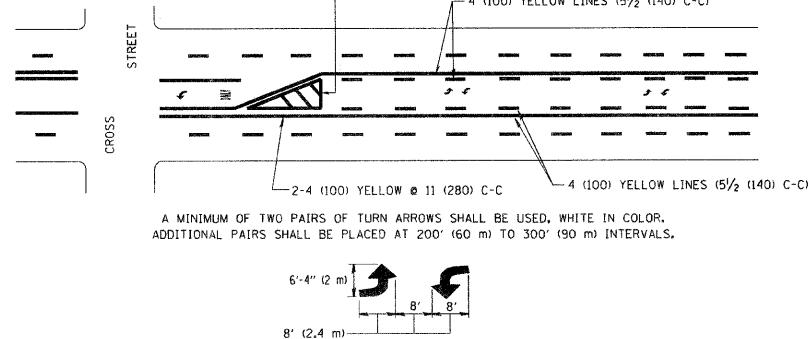
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE
TYPICAL LANE AND EDGE LINE MARKING



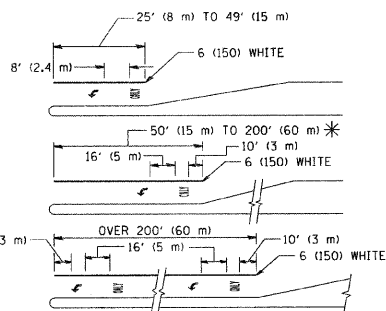
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE

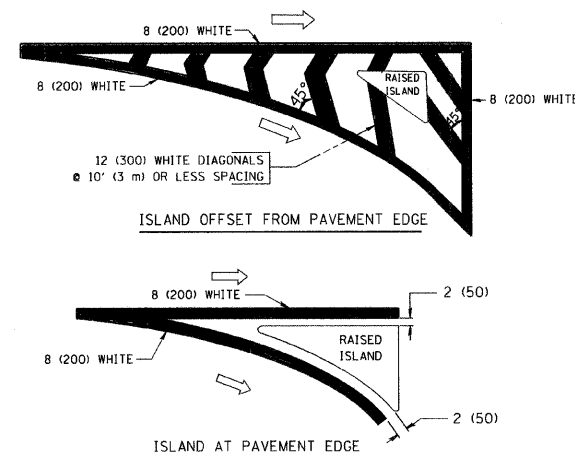


TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * 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 TURN LANE MARKING

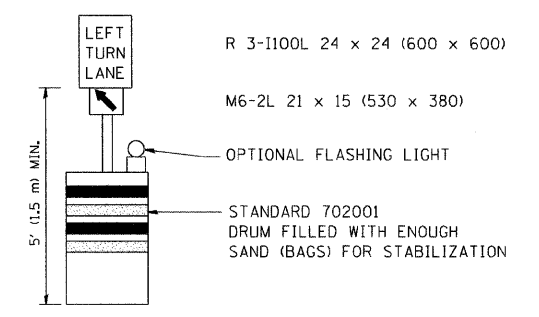
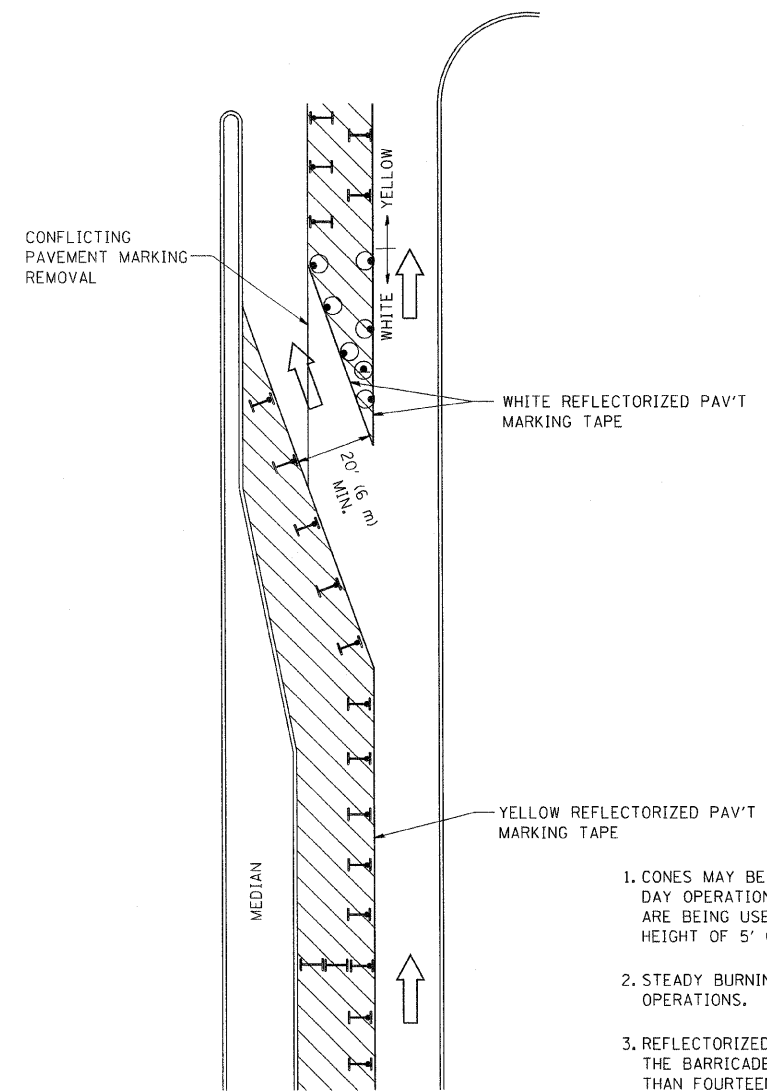


TYPICAL ISLAND MARKING

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) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) 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 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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



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.

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

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

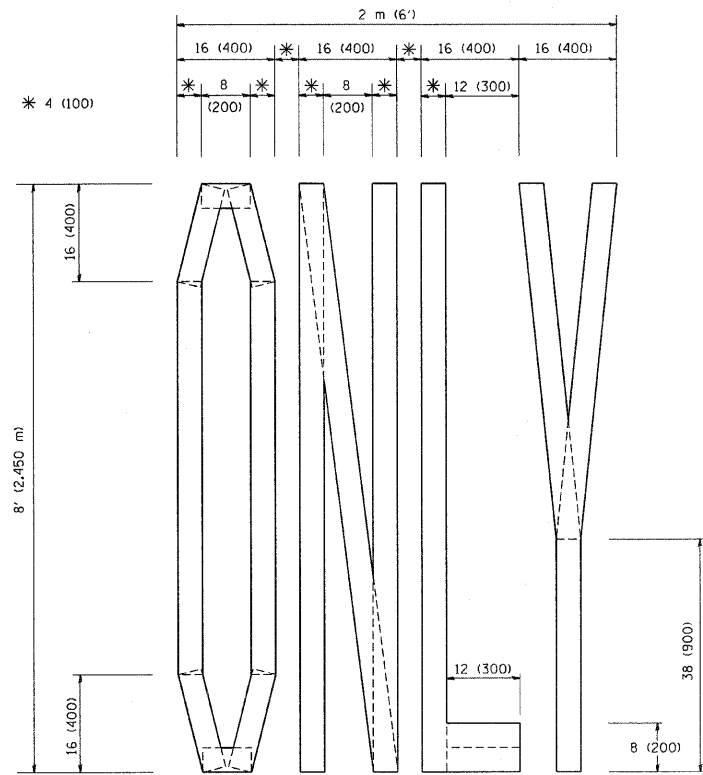
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		DRAWN -	REVISED - A. HOUSEH 11-07-95
	PLOT SCALE = 50.0000 / / IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 1/4/2008	DATE -	REVISED -T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

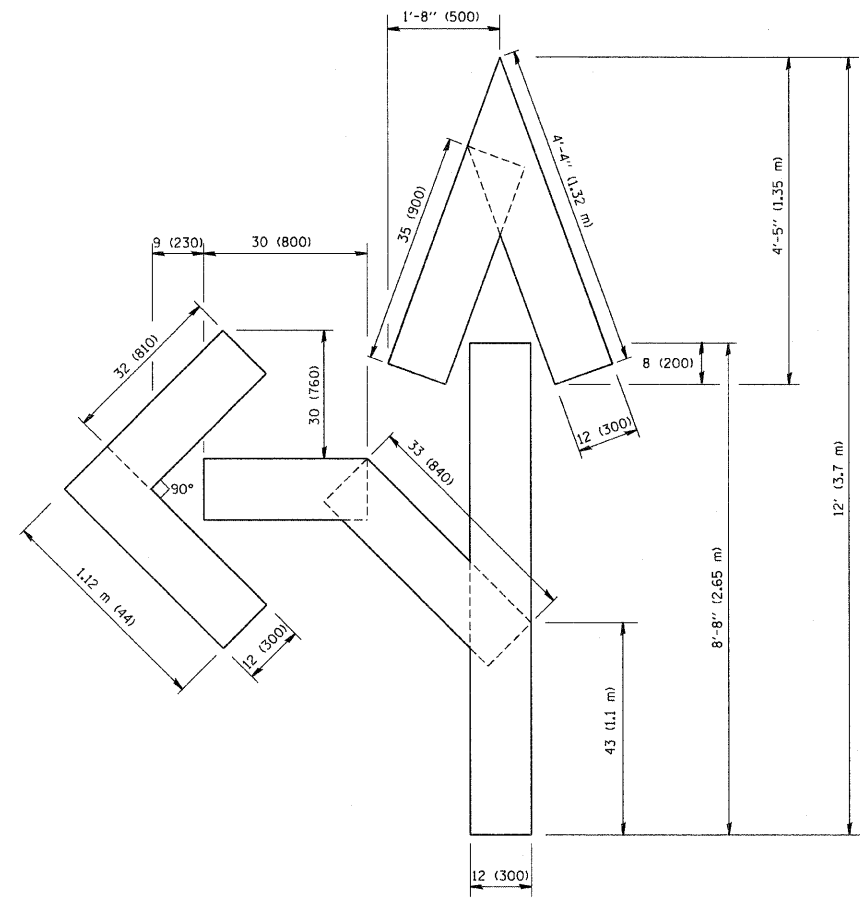
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 104+00 TO STA. 210+00

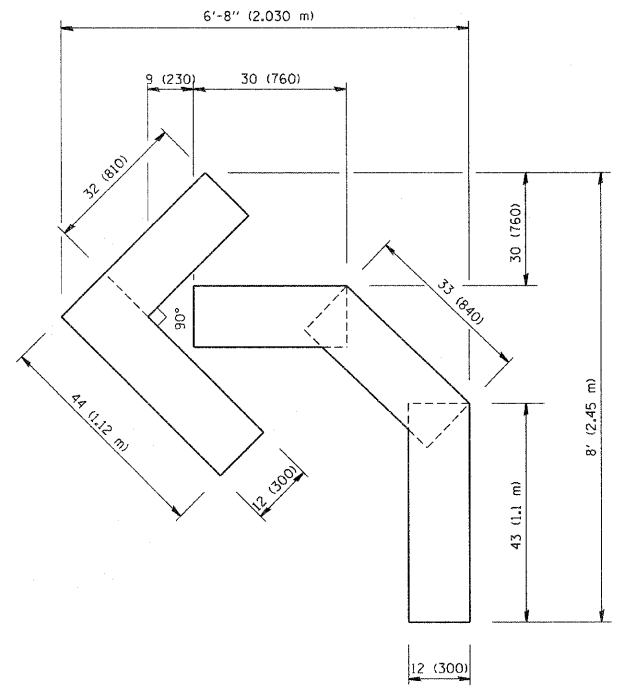
F.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-Z-Y-RS-1	COOK	32	29
TC-14			CONTRACT NO. 60F26	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



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



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

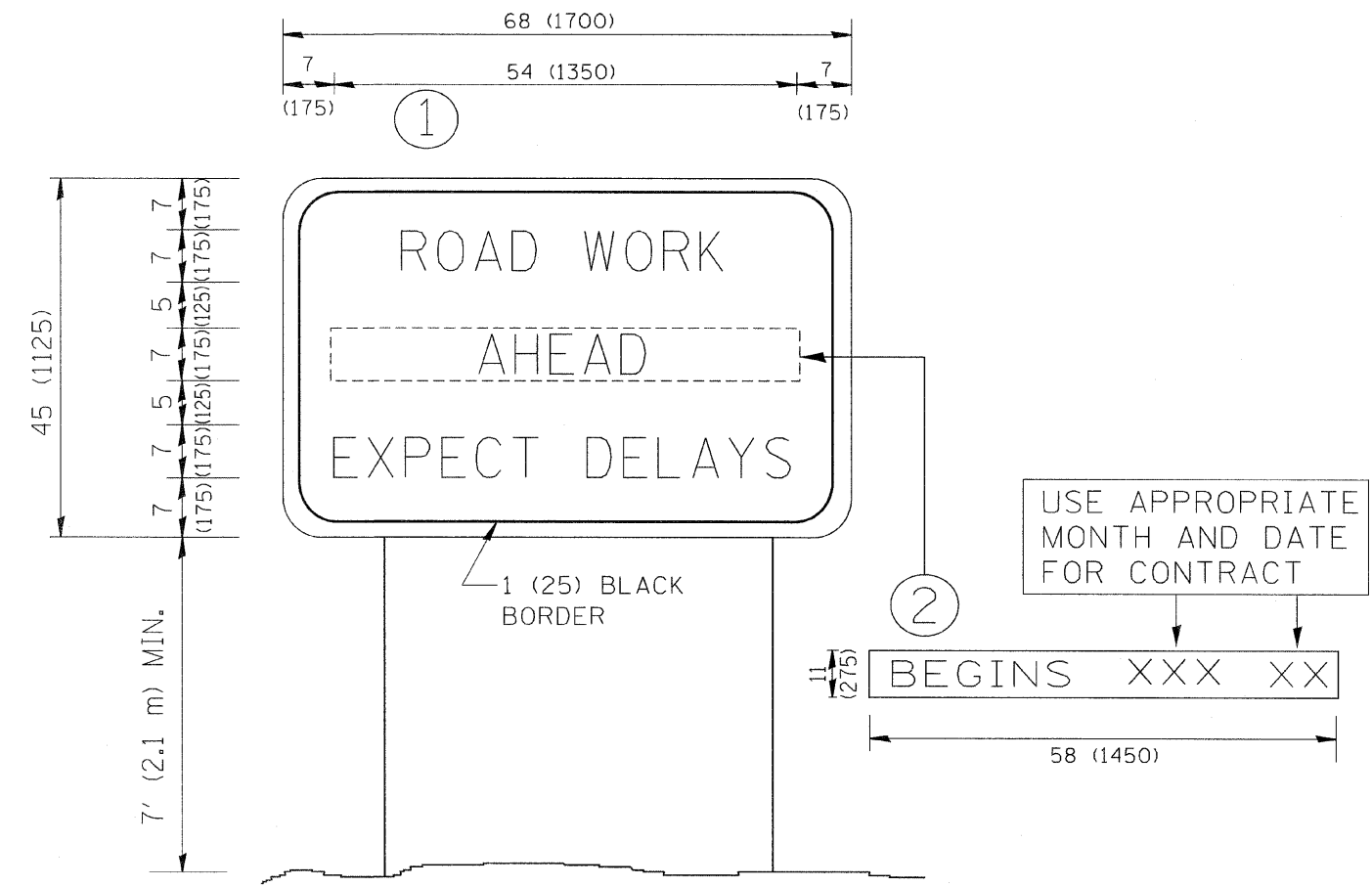
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = gajlanobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
W:\distatd\22x34\to16.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97
		CHECKED -	REVISED -T. RAMMACHER 03-02-98
		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 104+00	TO STA. 210+00

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1324	3228 D-Z-Y-RS-1	COOK	32	30
TC-16			CONTRACT NO. 60F26	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = gegltonobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

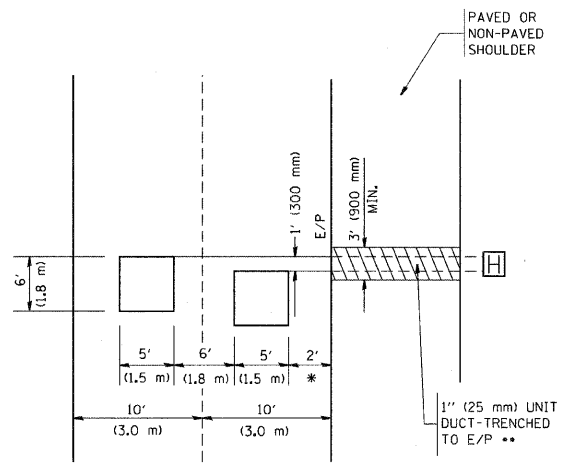
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 104+00	TO STA. 210+00

F.A.U. RTE. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 31
TC-22			CONTRACT NO. 60F26	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

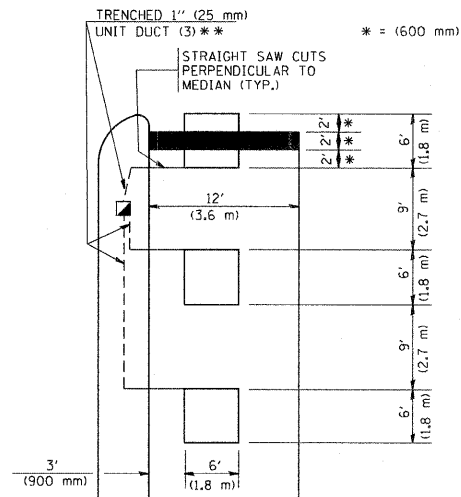


* = (600 mm)

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

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

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

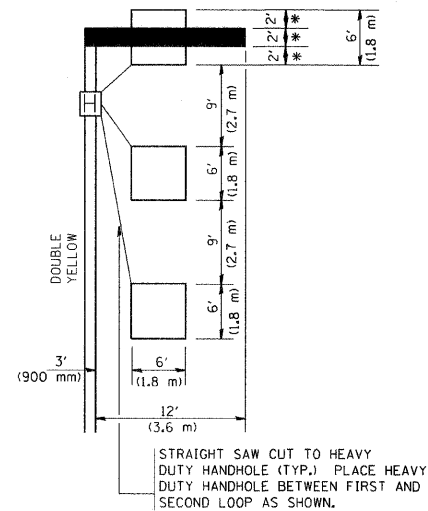


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

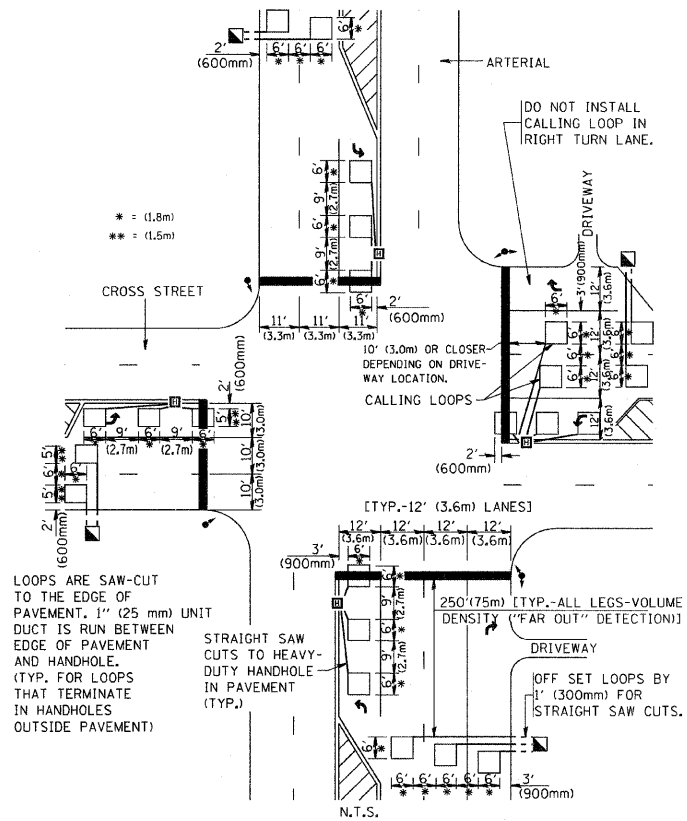
**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

* = (600 mm)



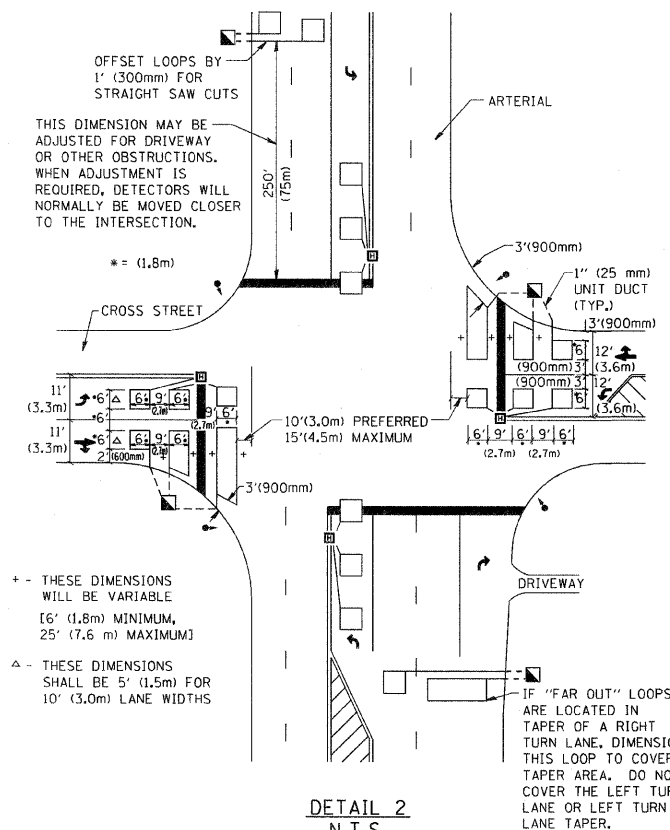
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

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

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 DIMENSIONS 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.

FILE NAME = W:\diststd\22x34\ts07.dgn	USER NAME = geglionob	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING		FAU. 1324	SECTION 3228 D-Z-Y-RS-1	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 32
PLOT SCALE = 50.0000" / IN.	CHECKED - R.K.F.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 104+00	TO STA. 210+00	TS-07		CONTRACT NO. 60F26
PLOT DATE = 1/4/2008	DATE -	CHECKED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						