

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145 & 146) RS-7	COOK	28	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 60103	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PROPOSED**  
**HIGHWAY PLANS**

**F.A.U. 2857 (ASHLAND AVENUE /WOOD STREET)**  
**SECTION (145 & 146) RS-7**  
**IL 83 (SIBLEY BOULEVARD) TO 123RD STREET**  
**RESURFACING (3P)**

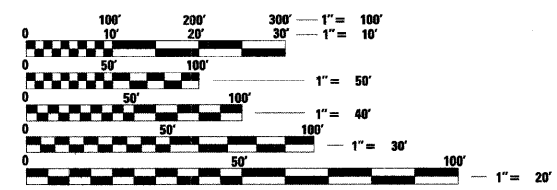
**COOK COUNTY**  
**C-91-843-09**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THESE IMPROVEMENTS ARE LOCATED  
 WITHIN THE VILLAGES OF CALUMET PARK,  
 RIVERDALE AND DIXMOOR

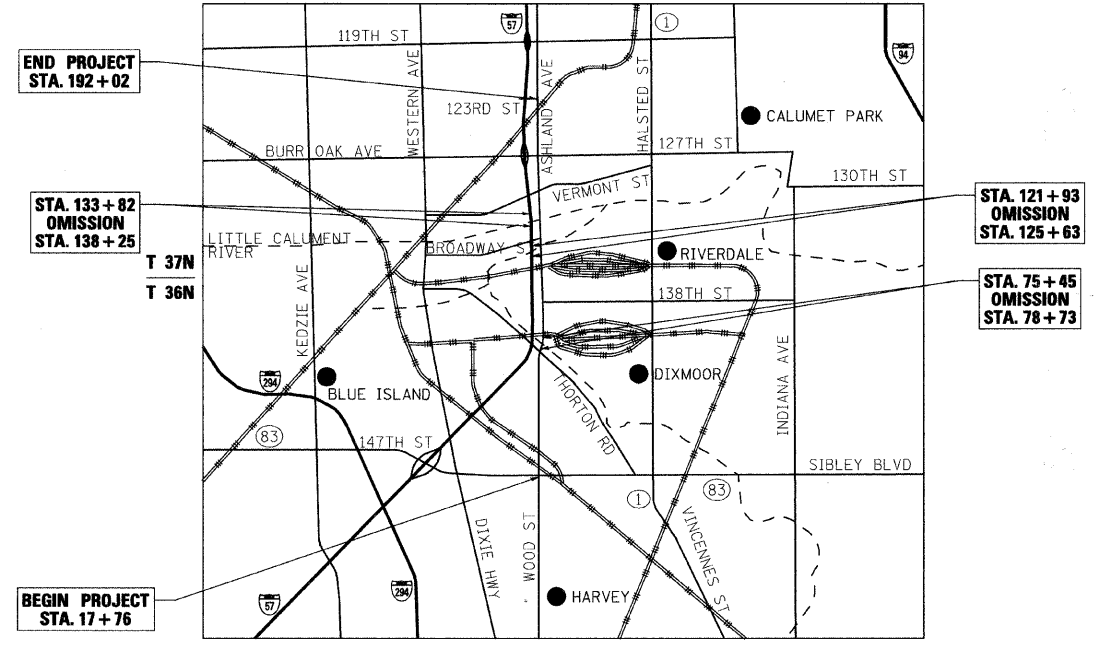
**TRAFFIC DATA**

2006 ADT - 13,200  
 POSTED SPEED LIMIT - 35 MPH



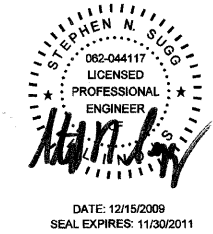
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
 ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
 CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
 ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**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

**THORTON AND CALUMET TOWNSHIP**  
**LOCATION MAP**  
**1" = 4,000'**  
 GROSS LENGTH OF PROJECT = 17,426 FT = 3.30 MI.  
 NET LENGTH OF PROJECT = 16,285 FT = 3.08 MI.



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
 SUBMITTED DECEMBER 9, 2009  
Devin M. O'Keefe  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
January 29, 2010  
Scott E. Stitt, P.E.  
 ACCESS ENGINEER OF DESIGN AND ENVIRONMENT  
January 29, 2010  
Christine M. Reed  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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**OF THE STATE OF ILLINOIS**

**CONTRACT NO. 60103**

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
5-11	PROPOSED ROADWAY AND PAVEMENT MARKING PLAN
12-16	DETECTOR LOOP REPLACEMENT PLANS
17	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
18	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
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20	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
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26	ARTERIAL ROAD INFORMATION SIGN (TC-22)
27	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS (TC-23)
28	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
602401-01	MANHOLE TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-03	FRAME AND LIDS, TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-06	URBAN LANE CLOSURE, MULTI LANE, 2W WITH MOUNTABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTI LANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W, 2W, CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES

- 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)
- 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.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 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.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:  

BITUMINOUS MATERIALS (PRIME COAT)	0.0004 TONS/SQ YD
HOT-MIX ASPHALT SURFACE COURSE	112 LBS/SQ YD/INCH
POLYMERIZED LEVELING BINDER (MACHINE METHOD)	110 LBS/SQ YD/INCH
- THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISORS AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.
- TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800.
- WHEN MILLED PAVEMENT 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).
- 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.
- FOR PAVEMENT MARKING, REFER TO DISTRICT ONE TYPICAL MARKINGS FOR DETAILS SHOWN.
- MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS AND OMISSIONS.
- ALL PATCHES OPENED ON A PARTICULAR DAY MUST BE FILLED THAT DAY TO THE TOP OF THE EXISTING PAVEMENT SURFACE.

14. IDOT TRAFFIC SIGNAL AND SYSTEM DETECTION LOOPS ARE PRESENT AT 147TH STREET, THORNTON ROAD, 138TH STREET, BROADWAY STREET, VERMONT STREET AND 127TH STREET. THE CONTRACTOR MUST NOTIFY THE IDOT AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER AT (847) 705-4139 AND THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO BEGINNING WORK, AT WHICH TIME ARRANGEMENTS WILL BE MADE TO ADJUST THE TRAFFIC CONTROLLER TIMING TO COMPENSATE FOR THE ABSENCE OF DETECTION. REPLACEMENT OF LOOPS DOES NOT REQUIRE MAINTENANCE TRANSFER, BUT DOES REQUIRE NOTIFICATION OF WORK AND INSPECTION. COORDINATION WITH THE DISTRICT SHALL BE INCLUDED WITH DETECTOR LOOP REPLACEMENT.

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE /WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145 & 146) RS-7	COOK	28	2
CONTRACT NO. 60103				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				URBAN 100% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 1000-2A
CODE NO.	DESCRIPTION	UNIT			
20201006	GRADING AND SHAPING SHOULDERS	UNIT	100	100	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	95	95	
25200110	SODDING, SALT TOLERANT	SQ YD	95	95	
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	15	15	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	10	10	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	74	74	
40600300	AGGREGATE (PRIME COAT)	TON	370	370	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	140	140	
40600535	LEVELING BINDER (HAND METHOD), N70	TON	20	20	
40600895	CONSTRUCTING TEST STRIP	EACH	4	4	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,248	1,248	
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	225	225	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2	2	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	7,770	7,770	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	500	500	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	92,400	92,400	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	15	15	
44000600	SIDEWALK REMOVAL	SQ FT	500	500	
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	570	570	
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	1,600	1,600	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	1,130	1,130	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	210	210	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	50	50	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	270	270	
55039700	STORM SEWERS TO BE CLEANED	FOOT	2,500	2,500	
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	5	5	
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	140	140	
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	10	10	

\* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES				URBAN 100% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 1000-2A
CODE NO.	DESCRIPTION	UNIT			
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	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	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	19,330	19,330	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	3,600	3,600	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	139,700	139,700	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	6,600	6,600	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1,200	1,200	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2,400	2,400	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	3,750	3,750	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	21,400	21,400	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,200	1,200	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	68,400	68,400	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,200	2,200	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	400	400	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	800	800	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1,250	1,250	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,650	1,650	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,320	1,320	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2,500	2,500	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51	51	
<del>40600826</del>	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	3,820	3,820	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	160	160	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	

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**Ciorba Group, Inc.**  
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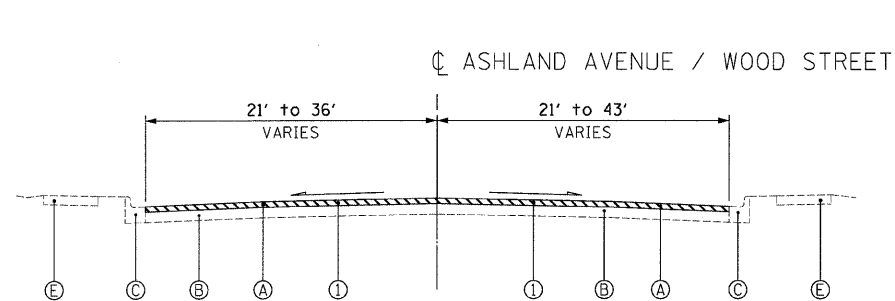
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

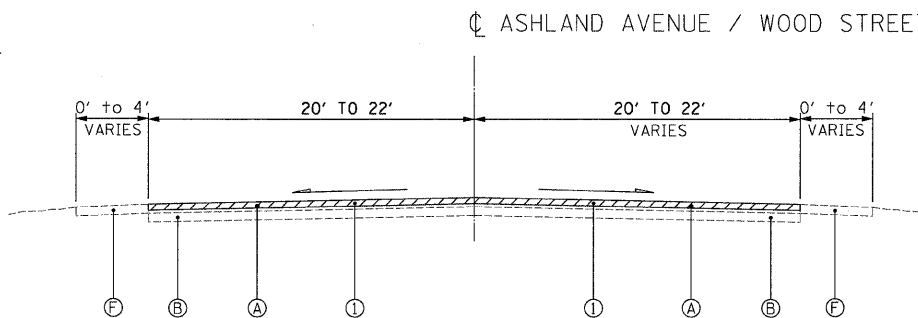
SCALE: SHEET NO. OF SHEETS STA. TO STA.

ASHLAND AVENUE /WOOD STREET  
IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
SUMMARY OF QUANTITIES

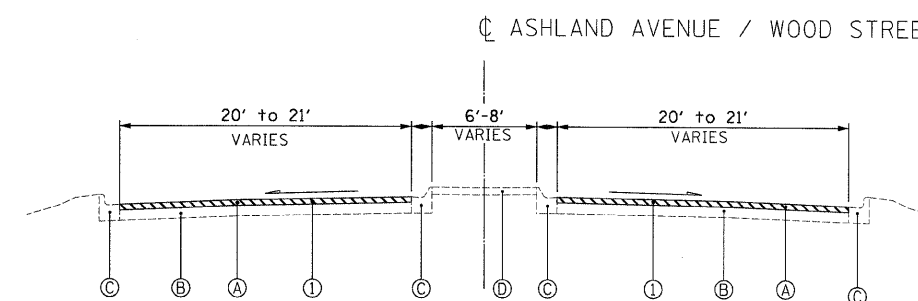
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2857	(145 & 146) RS-7	COOK	28	3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60103	



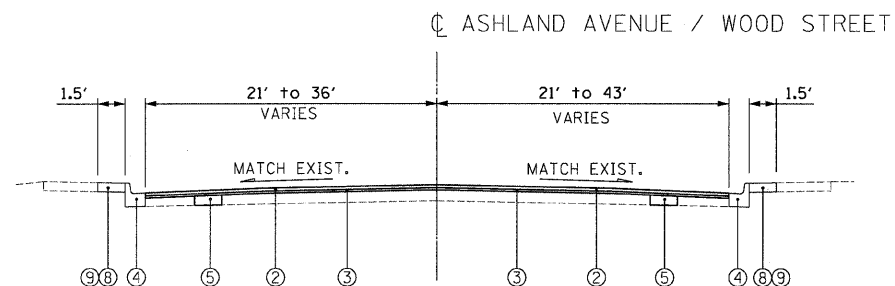
**EXISTING TYPICAL SECTION**  
 STA. 17+76 TO STA. 20+58  
 STA. 21+23 TO STA. 27+47  
 STA. 28+08 TO STA. 28+81  
 STA. 85+77 TO STA. 121+93  
 STA. 125+63 TO STA. 127+53  
 STA. 138+25 TO STA. 185+69  
 STA. 187+48 TO STA. 192+02



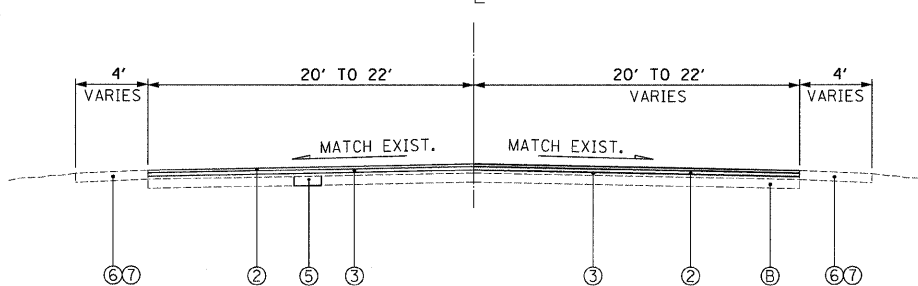
**EXISTING TYPICAL SECTION**  
 STA. 28+81 TO STA. 75+45  
 STA. 127+53 TO STA. 133+82



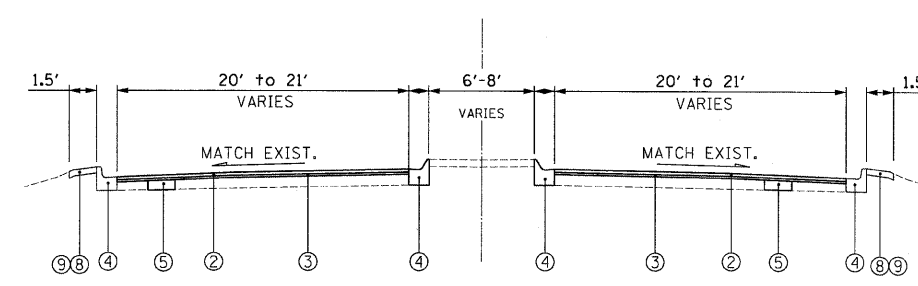
**EXISTING TYPICAL SECTION**  
 STA. 78+73 TO STA. 85+77  
 STA. 185+69 TO STA. 186+35  
 STA. 186+86 TO STA. 187+48



**PROPOSED TYPICAL SECTION**  
 STA. 17+76 TO STA. 20+58  
 STA. 21+23 TO STA. 27+47  
 STA. 28+08 TO STA. 28+81  
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**PROPOSED TYPICAL SECTION**  
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 STA. 185+69 TO STA. 186+35  
 STA. 186+86 TO STA. 187+48

THE CONTRACTOR SHALL PATCH BEFORE MILLING

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART**

OPERATIONS	MIXTURE TYPE	AIR VOIDS @ Ndes
ROADWAY RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"	4% @ 70 GYR
	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% @ 50 GYR
INCIDENTAL USE	LEVELING BINDER (HAND METHOD), N70 (IL-9.5MM)	4% @ 70 GYR
PAVEMENT PATCHING	CLASS D PATCHES, 10" (HMA BINDER IL-19 MM)	4% @ 70 GYR
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 MM)	4% @ 70 GYR
DRIVES BEHIND CURB	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5MM) 2" THICKNESS	4% @ 50 GYR
	HOT-MIX ASPHALT BASE COURSE, 8" (HMA BINDER IL-19 MM)	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

FOR "AC TYPE" AND "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS

**EXISTING CONDITIONS:**

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE, 3" AND VARIES
- (B) PORTLAND CEMENT CONCRETE BASE COURSE, 10" +/-
- (C) COMBINATION CONCRETE CURB AND GUTTER
- (D) RAISED CONCRETE MEDIAN
- (E) PCC SIDEWALK
- (F) AGGREGATE SHOULDER 6" AND VARIES

**PROPOSED IMPROVEMENTS:**

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (4) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY ENGINEER)
- (5) CLASS D PATCHES, 10" (DETERMINED BY ENGINEER IN FIELD)
- (6) AGGREGATE WEDGE SHOULDER, TYPE B
- (7) GRADING AND SHAPING SHOULDERS
- (8) TOPSOIL FURNISH AND PLACE, 4"
- (9) SODDING, SALT TOLERANT

A QUANTITY FOR LEVELING BINDER (HAND METHOD) HAS BEEN PROVIDED FOR USE AT PRIVATE ENTRANCES, 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 EXISTING PAVEMENT.

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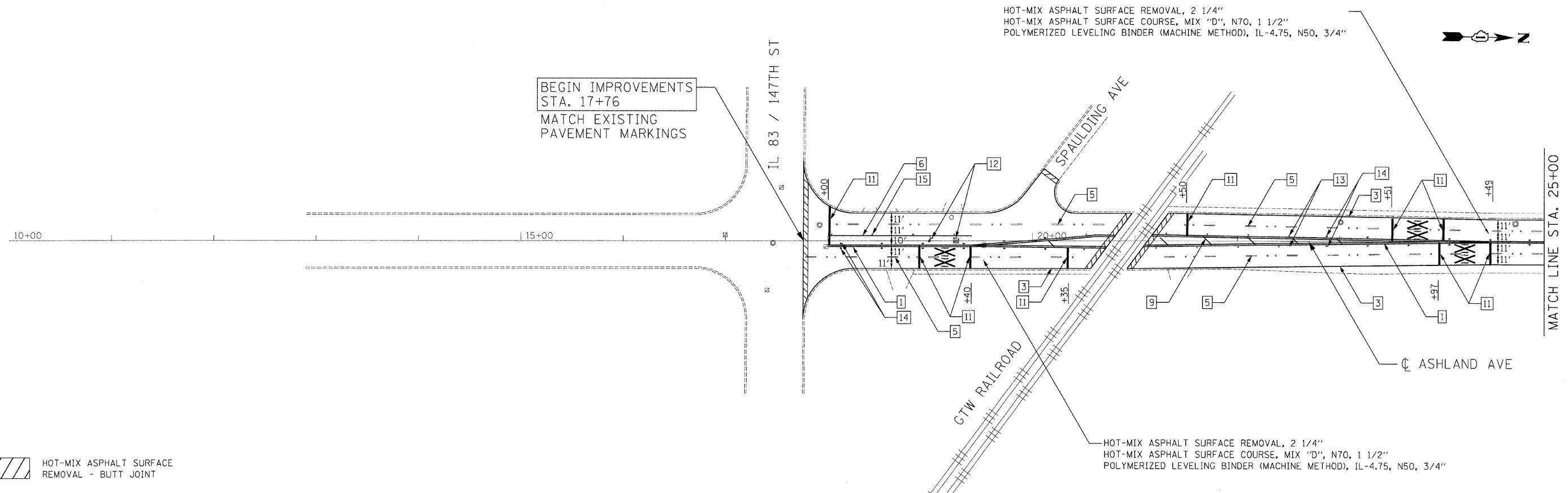
**Ciorba Group, Inc.**  
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PLOT SCALE = 5.0000' / IN.	DRAWN - DKD	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 TYPICAL SECTIONS**  
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

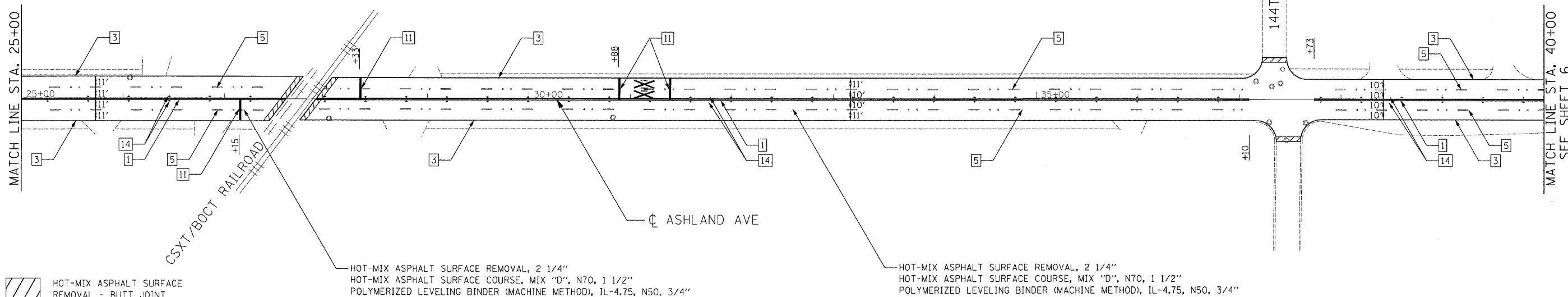
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2857	(145 & 146) RS-7	COOK	28	4
CONTRACT NO. 60103				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

**LEGEND:**

- |   |   |
|---|---|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)</p> <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' 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) (80' C-C)</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" (YELLOW DIAGONAL LINE)</p> <p>10 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)</p> <p>11 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)</p> <p>12 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)</p> <p>13 RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER MARKER) (40' C-C)</p> <p>14 RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C)</p> <p>15 RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL MARKER) (40' C-C)</p> |
|---|---|



HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"  
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"  
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"  
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"  
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

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**Ciorba Group, Inc.**  
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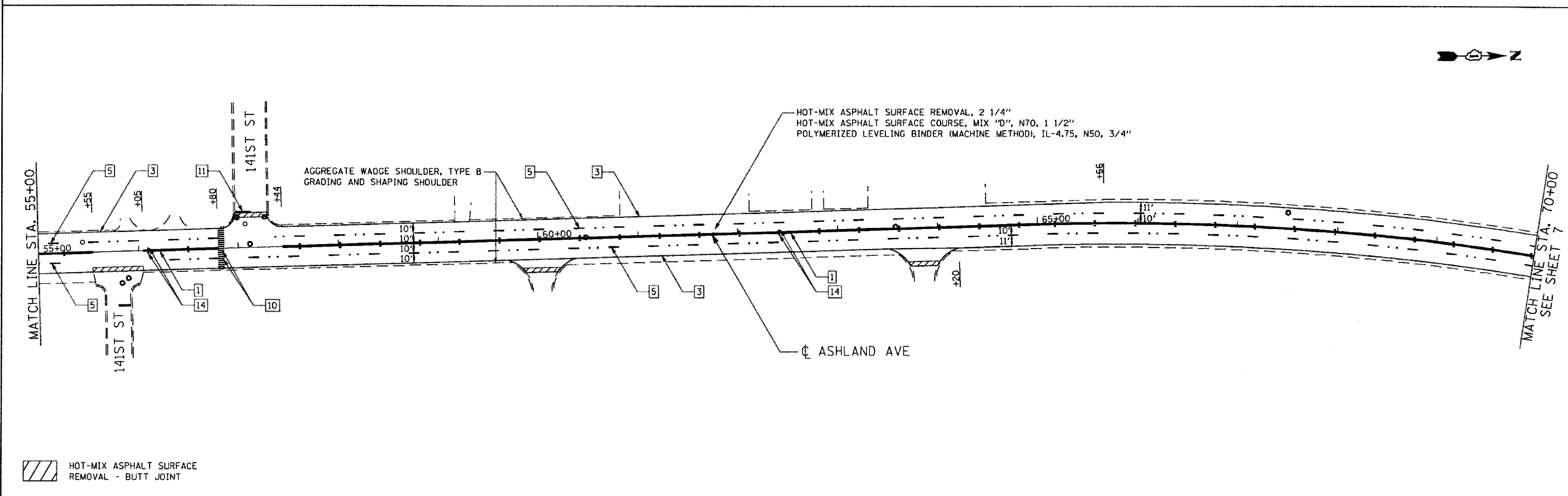
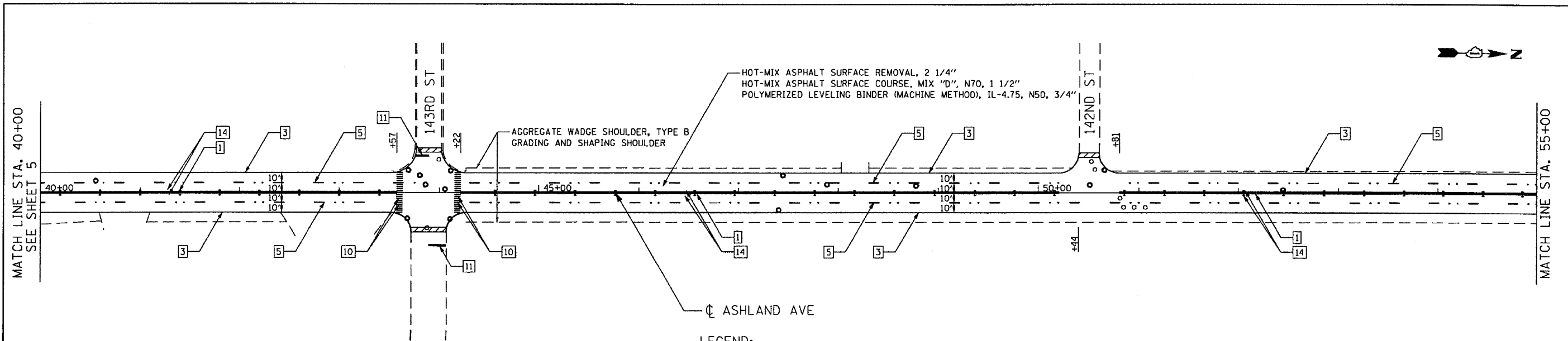
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET NO. 5 OF 28 SHEETS STA. 17+76 TO STA. 40+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145 & 146) RS-7	COOK	28	5
CONTRACT NO. 60103				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FILE NAME: c:\projects\33861\33861\_33\dwg\pavement\plan\33861\_33-pav02.dwg

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

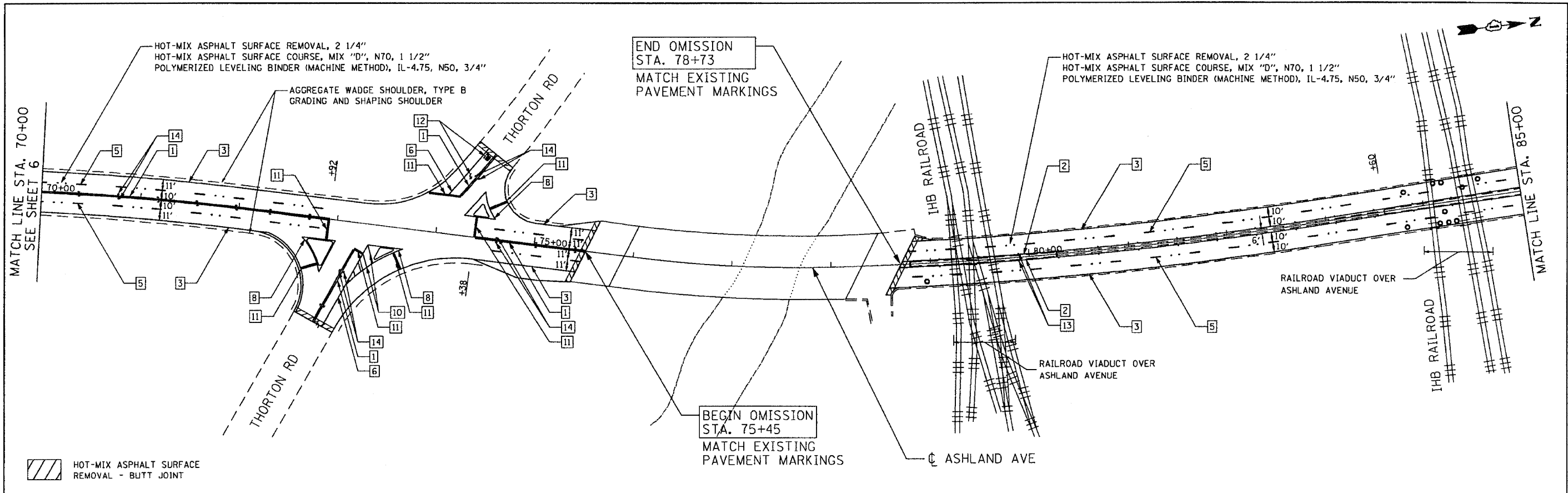
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PLDT DATE: 12/7/2009	DATE: 12/11/2009	REVISED: -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET**  
**IL 83 (SIBLEY BOULEVARD) TO 123RD ST**  
**PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

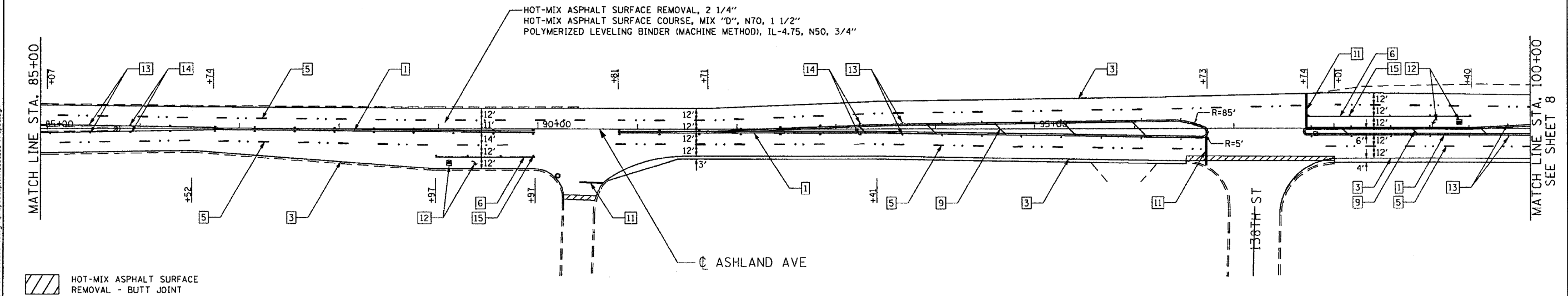
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	1145 & 146) RS-7	COOK	28	6
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 60103



**LEGEND:**

- |   |  |    |   |
|---|--|----|---|
| 1 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)  | 8  | THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)           |
| 2 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)   | 9  | THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)      |
| 3 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)   | 10 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)          |
| 4 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)  | 11 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)           |
| 5 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER) (80' C-C) | 12 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)           |
| 6 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)  | 13 | RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER MARKER) (40' C-C)   |
| 7 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)  | 14 | RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C)   |
|   |  | 15 | RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL MARKER) (40' C-C) |



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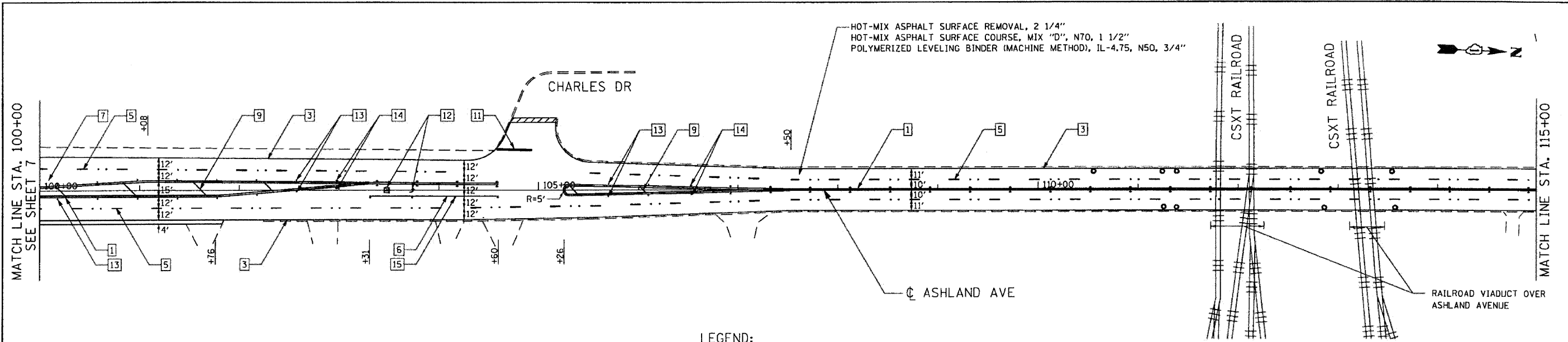
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET NO. 7 OF 28 SHEETS STA. 70+00 TO STA. 100+00

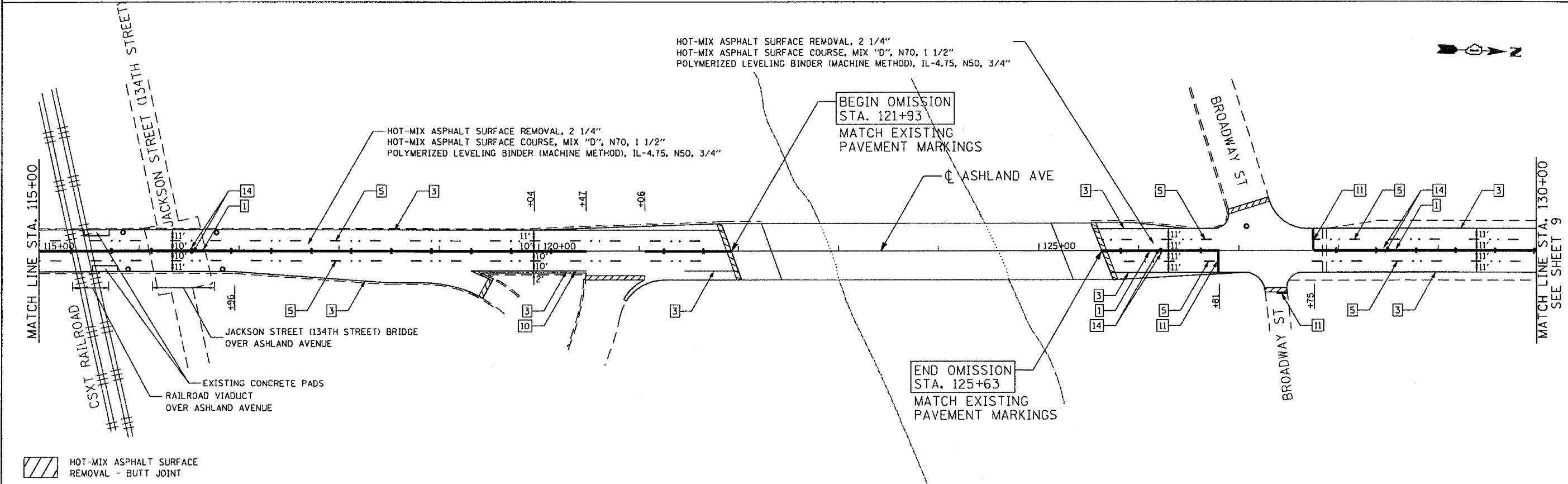
F.A.U. RTE. 2857	SECTION (145 & 146) RS-7	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 7
CONTRACT NO. 60103			ILLINOIS FED. AID PROJECT	



**LEGEND:**

- |   |  |    |   |
|---|--|----|---|
| 1 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)  | 8  | THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)           |
| 2 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)   | 9  | THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)      |
| 3 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)   | 10 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)          |
| 4 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)  | 11 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)           |
| 5 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER) (80' C-C) | 12 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)           |
| 6 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)  | 13 | RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER MARKER) (40' C-C)   |
| 7 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)  | 14 | RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C)   |
|   |  | 15 | RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL MARKER) (40' C-C) |

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

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USER NAME = wlenoester	DESIGNED - DKD	REVISED -
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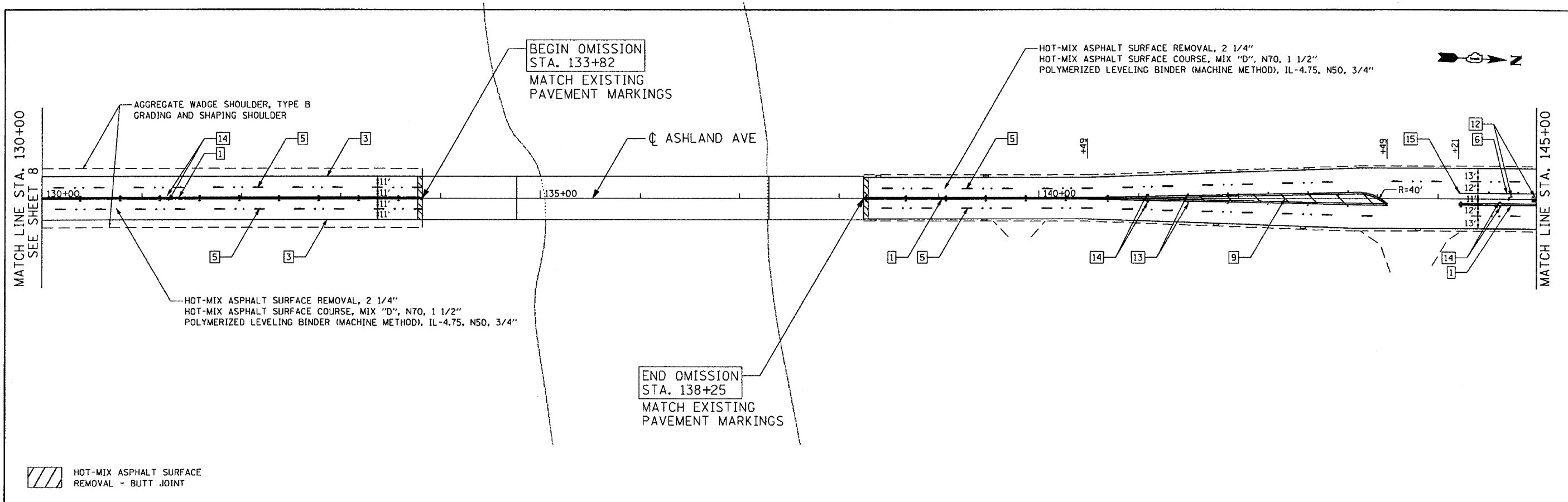
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET NO. 8 OF 28 SHEETS STA. 100+00 TO STA. 130+00

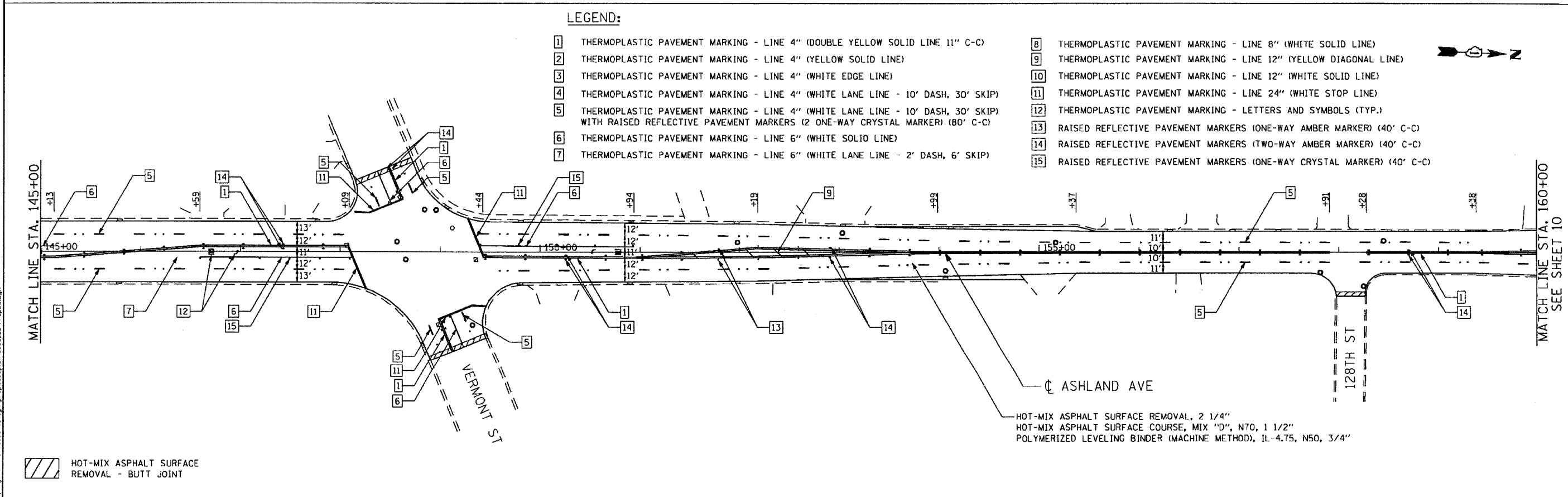
F.A.U. RTE. 2857	SECTION (145 & 146) RS-7	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 8
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60103	





**LEGEND:**

- |   |  |    |   |
|---|--|----|---|
| 1 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)  | 8  | THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)           |
| 2 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)   | 9  | THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)      |
| 3 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)   | 10 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)          |
| 4 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)  | 11 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)           |
| 5 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER) (80' C-C) | 12 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)           |
| 6 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)  | 13 | RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER MARKER) (40' C-C)   |
| 7 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)  | 14 | RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C)   |
|   |  | 15 | RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL MARKER) (40' C-C) |



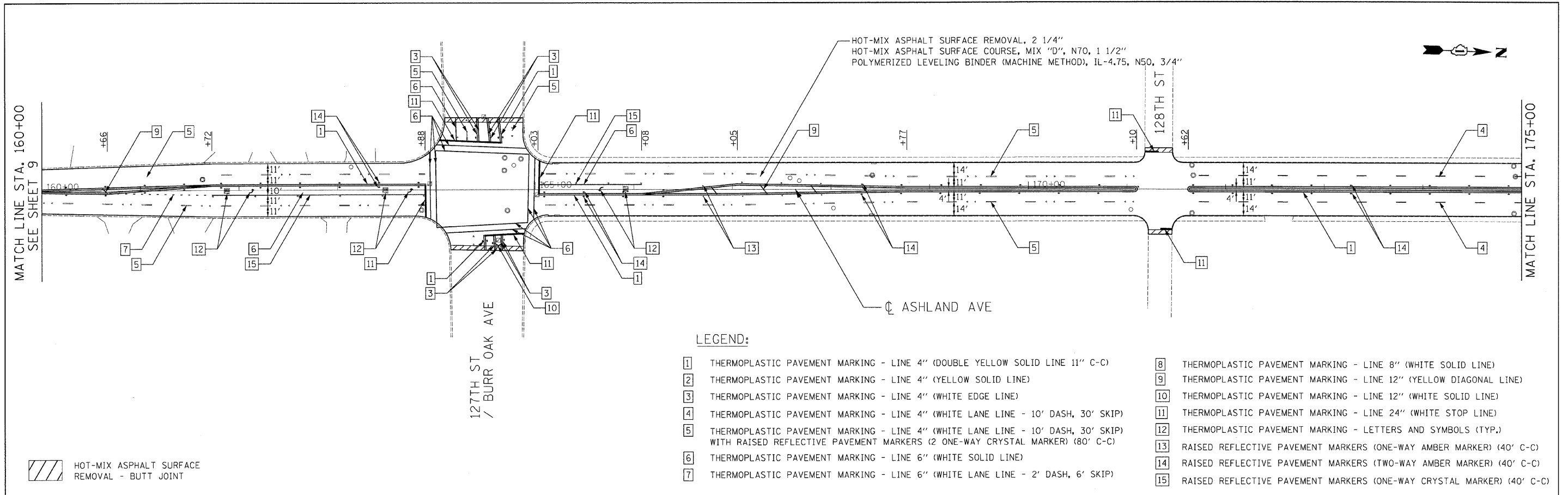
**Ciorba Group, Inc.**  
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	DATE - 12/11/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**  
 SCALE: 1"=50' SHEET NO. 9 OF 28 SHEETS STA. 130+00 TO STA. 160+00

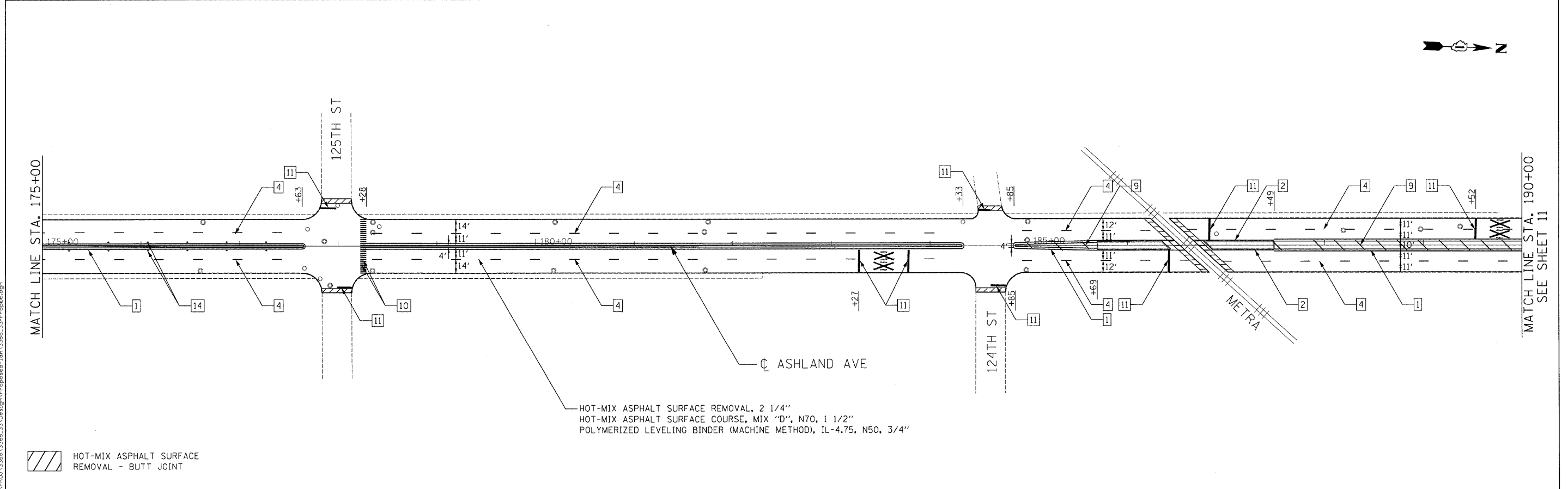
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CONTRACT NO. 60103			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



**LEGEND:**

- |   |  |    |   |
|---|--|----|---|
| 1 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)  | 8  | THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)           |
| 2 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)   | 9  | THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)      |
| 3 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)   | 10 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)          |
| 4 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)  | 11 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)           |
| 5 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER) (80' C-C) | 12 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)           |
| 6 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)  | 13 | RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER MARKER) (40' C-C)   |
| 7 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)  | 14 | RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C)   |
|   |  | 15 | RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL MARKER) (40' C-C) |

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"  
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"  
 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

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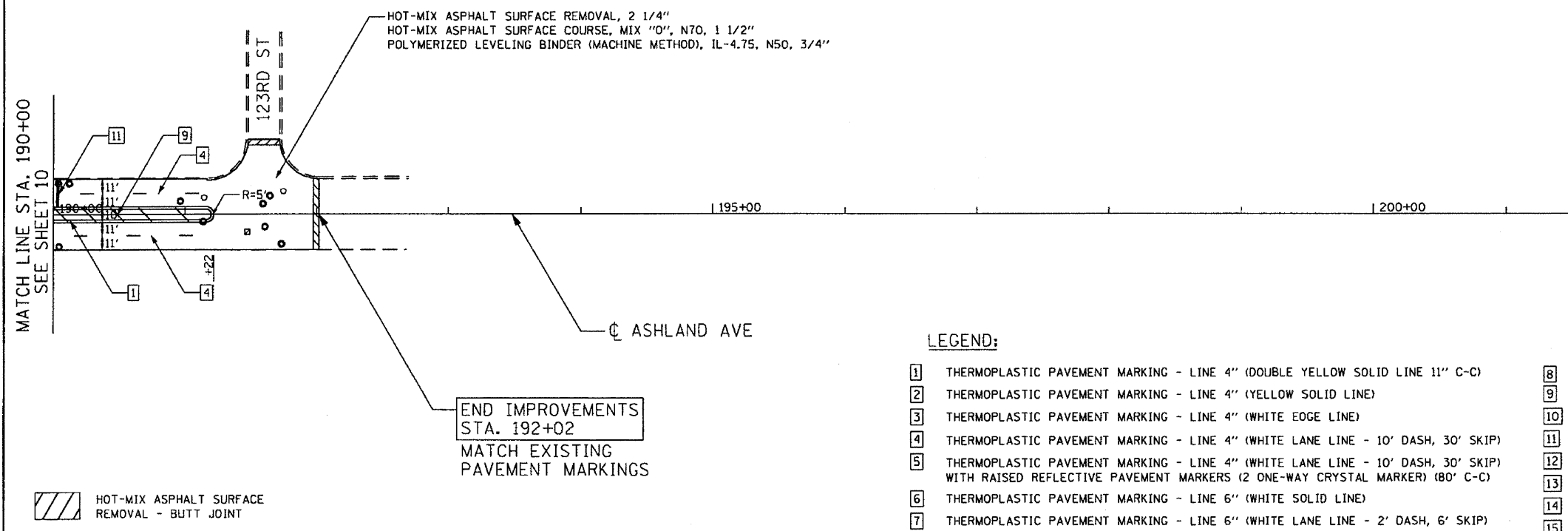
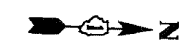
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET**  
**IL 83 (SIBLEY BOULEVARD) TO 123RD ST**  
**PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET NO. 10 OF 28 SHEETS STA. 160+00 TO STA. 190+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145 & 146) RS-7	COOK	28	10
CONTRACT NO. 60103				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND:**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)</li> <li>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)</li> <li>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)</li> <li>4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)</li> <li>5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) WITH RAISED REFLECTIVE PAVEMENT MARKERS (2 ONE-WAY CRYSTAL MARKER) (80' C-C)</li> <li>6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)</li> <li>7 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)</li> </ul> | <ul style="list-style-type: none"> <li>8 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)</li> <li>9 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)</li> <li>10 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)</li> <li>11 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)</li> <li>12 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)</li> <li>13 RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER MARKER) (40' C-C)</li> <li>14 RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER) (40' C-C)</li> <li>15 RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL MARKER) (40' C-C)</li> </ul> |
|--|--|

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

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**CG** Ciorba Group, Inc.  
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PLOT DATE = 12/7/2009	DATE - 12/11/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 PROPOSED ROADWAY AND PAVEMENT MARKING PLAN**

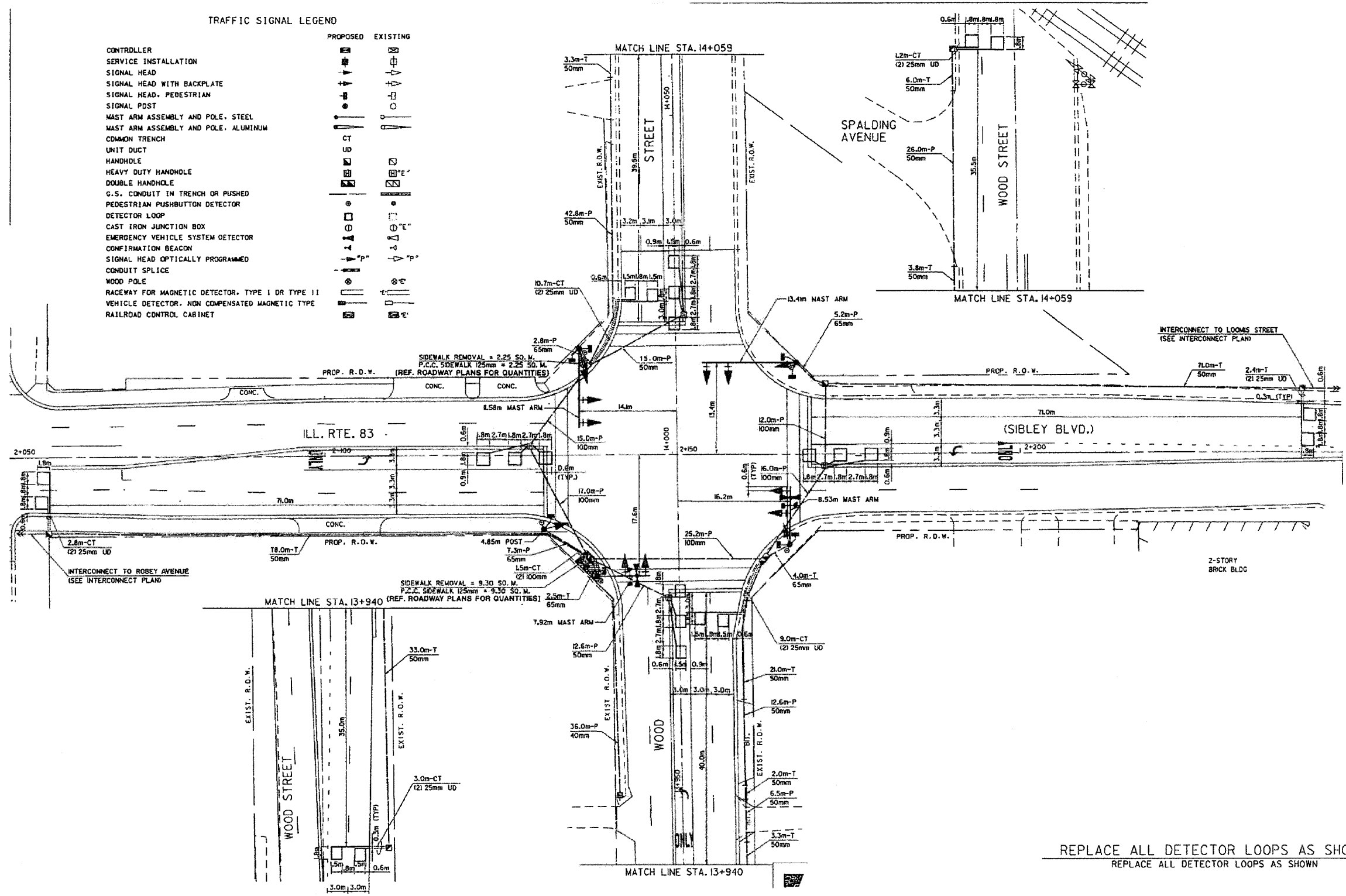
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145 & 146) RS-7	COOK	28	11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60103	



**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING
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		
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		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		



REPLACE ALL DETECTOR LOOPS AS SHOWN  
 REPLACE ALL DETECTOR LOOPS AS SHOWN

CODE NO.	QUANTITY	UNIT	ITEM
86600600	163	FOOT	DETECTOR LOOP REPLACEMENT

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 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60658  
 Tel. 773.775.4000 Fax 773.775.4014

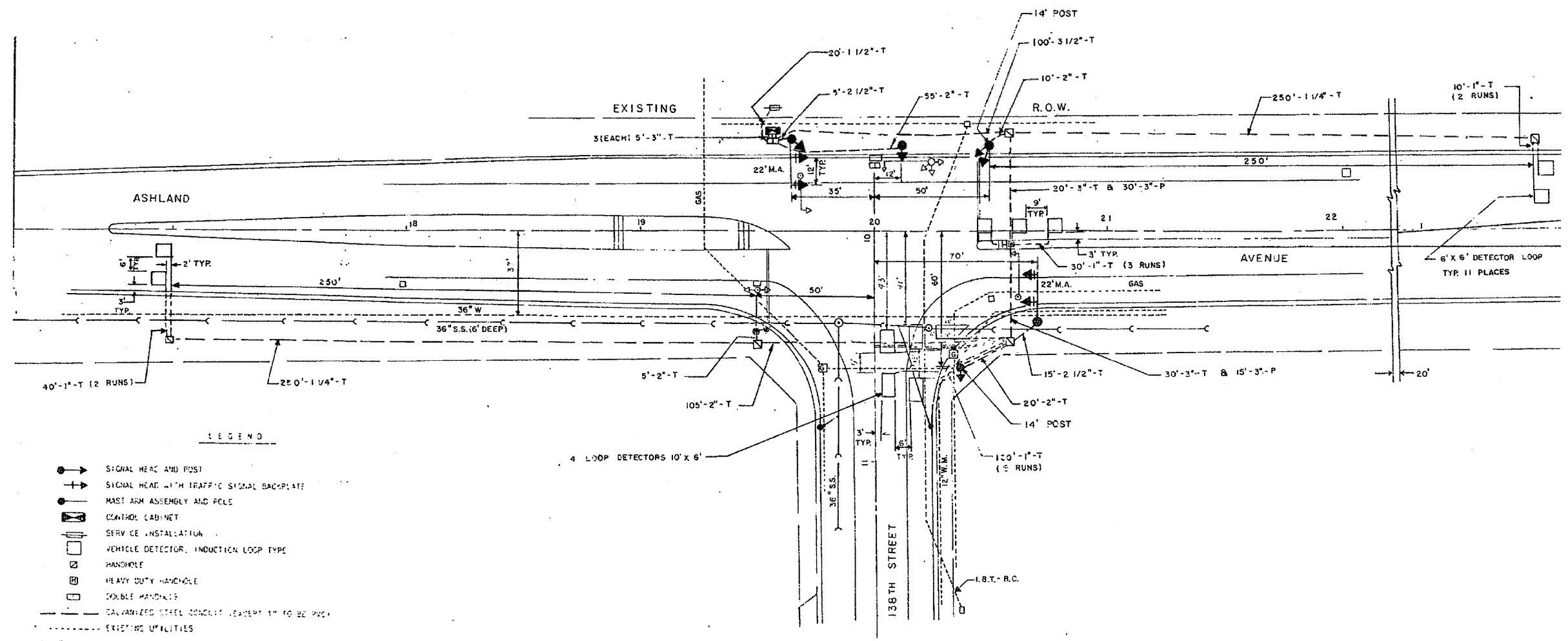
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	DATE - 12/11/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 DETECTOR LOOP REPLACEMENT PLAN**

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

F.A.U. RTE. 2857	SECTION 1145 & 146) RS-7	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 12
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60103	



- LEGEND**
- SIGNAL HEAD AND POST
  - SIGNAL HEAD WITH TRAFFIC SIGNAL BACKPLATE
  - MAST ARM ASSEMBLY AND POLE
  - CONTROL CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR, INDUCTION LOOP TYPE
  - HANDHOLE
  - HEAVY DUTY HANDHOLE
  - DOUBLE HANDHOLE
  - GALVANIZED STEEL CONDUIT, LENGTH 10' TO BE PUSHED
  - EXISTING UTILITIES
  - 10'-2\"/> TYP. → TRENCH
  - SIDE OF CONDUIT
  - LENGTH OF CONDUIT
  - 10'-2\"/> TYP. → PUSHED

REPLACE ALL DETECTOR LOOPS AS SHOWN  
 REPLACE ALL DETECTOR LOOPS AS SHOWN

CODE NO.	QUANTITY	UNIT	ITEM
86600600	368	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: \\p01\proj\3386\3386\_33\dwg\sig\3386\_33\_1.dwg; User: rj; Date: 12/11/2009 10:18:48 am

**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60656  
 Tel. 773.776.4009 Fax 773.776.4014

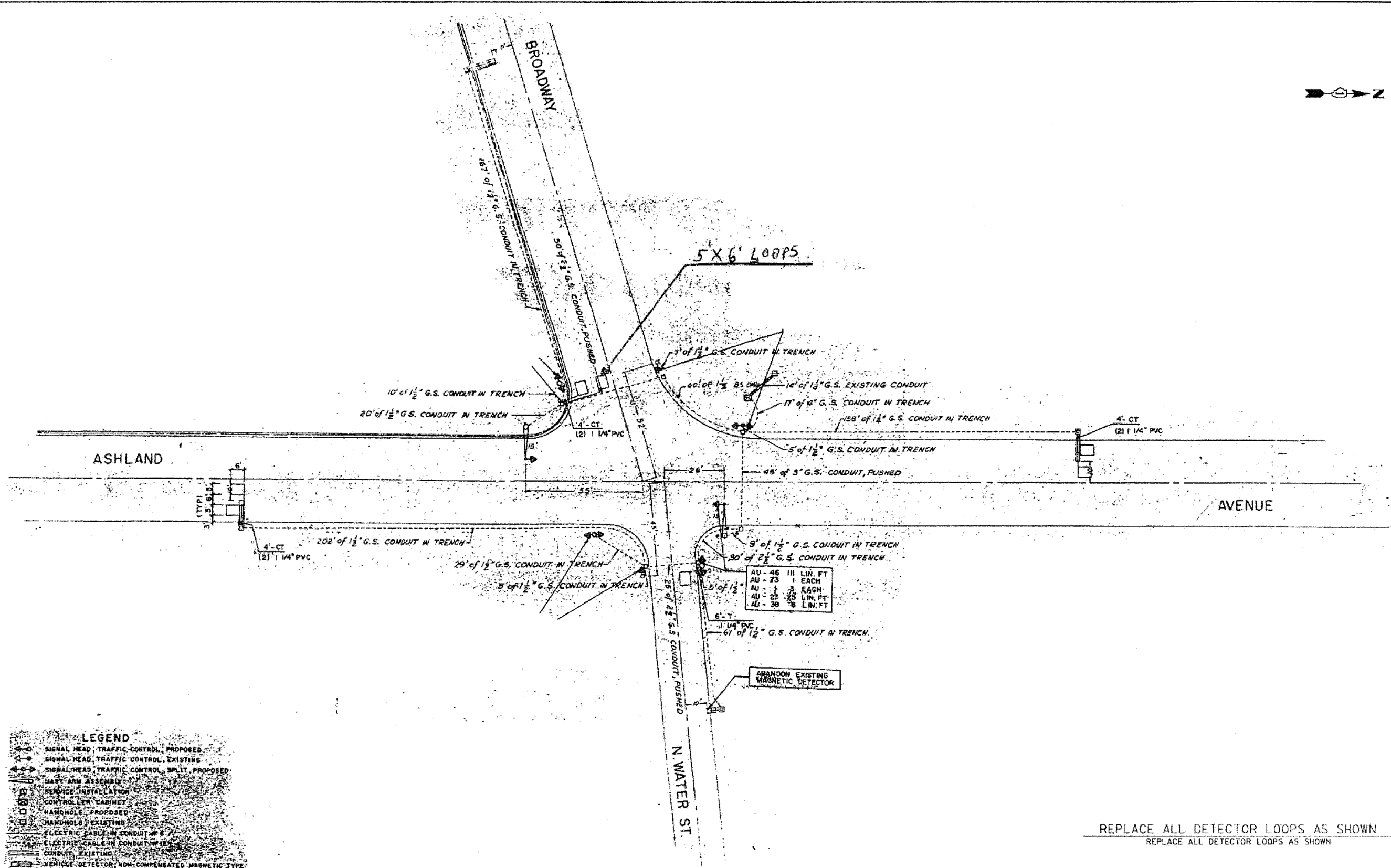
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PLOT DATE = 12/7/2009	DATE = 12/11/2009	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET**  
**IL 83 (SIBLEY BOULEVARD) TO 123RD ST**  
**DETECTOR LOOP REPLACEMENT PLAN**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	1145 & 1461 RS-7	COOK	28	13
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60103	



**LEGEND**

- ▲ SIGNAL HEAD, TRAFFIC CONTROL, PROPOSED
- ◀▶ SIGNAL HEAD, TRAFFIC CONTROL, EXISTING
- ◀▶ SIGNAL HEAD, TRAFFIC CONTROL, SPLIT, PROPOSED
- ⊥ MAST ARM ASSEMBLY
- ⊥ SERVICE INSTALLATION
- ⊥ CONTROL CABINET
- ⊥ HANDHOLE, PROPOSED
- ⊥ HANDHOLE, EXISTING
- ⊥ ELECTRIC CABLE IN CONDUIT, NEW
- ⊥ ELECTRIC CABLE IN CONDUIT, WIE
- ⊥ CONDUIT, EXISTING
- ⊥ VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE

REPLACE ALL DETECTOR LOOPS AS SHOWN  
 REPLACE ALL DETECTOR LOOPS AS SHOWN

CODE NO.	QUANTITY	UNIT	ITEM
86600600	214	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: m:\proj\30500\30500.dwg; 31/12/2009 10:58:31; user: RJB; B-roadway.dwg

**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60655  
 Tel: 773.776.4009 Fax 773.776.4014

USER NAME = wlcaster	DESIGNED - RJR	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN - RJR	REVISED -
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	DATE - 12/11/2009	REVISED -

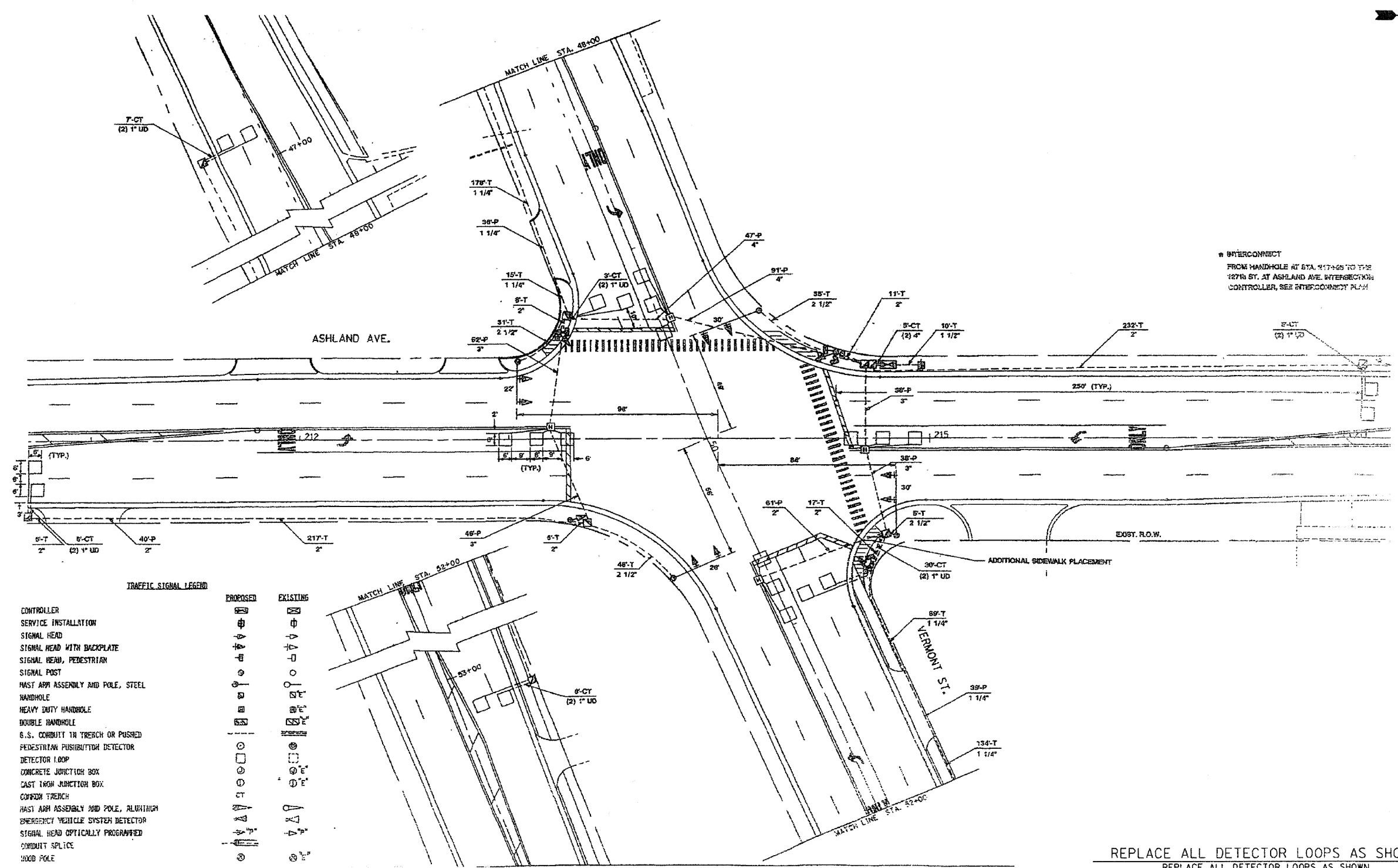
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET**  
**IL 83 (SIBLEY BOULEVARD) TO 123RD ST**  
**DETECTOR LOOP REPLACEMENT PLAN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145 & 146) RS-7	COOK	28	14

CONTRACT NO. 60103  
 FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT



\* INTERCONNECT  
 FROM HANDHOLE AT STA. 117+25 TO THE  
 127th ST. AT ASHLAND AVE. INTERSECTION;  
 CONTROLLER, SEE INTERCONNECT PLAN

**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]
HAST ARM ASSEMBLY AND POLE, STEEL	[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]
CONCRETE JUNCTION BOX	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
CONDUIT TRENCH	[Symbol]	[Symbol]
HAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]

REPLACE ALL DETECTOR LOOPS AS SHOWN  
 REPLACE ALL DETECTOR LOOPS AS SHOWN

CODE NO.	QUANTITY	UNIT	ITEM
86600600	667	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: s:\projects\2008\2008\_23\design\Signal\2008\_23\200808\_Vermont.dwg

**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60655  
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = wloester	DESIGNED - RJR	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 12/7/2009	CHECKED - SNS	REVISED -
	DATE - 12/11/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 DETECTOR LOOP REPLACEMENT PLAN**

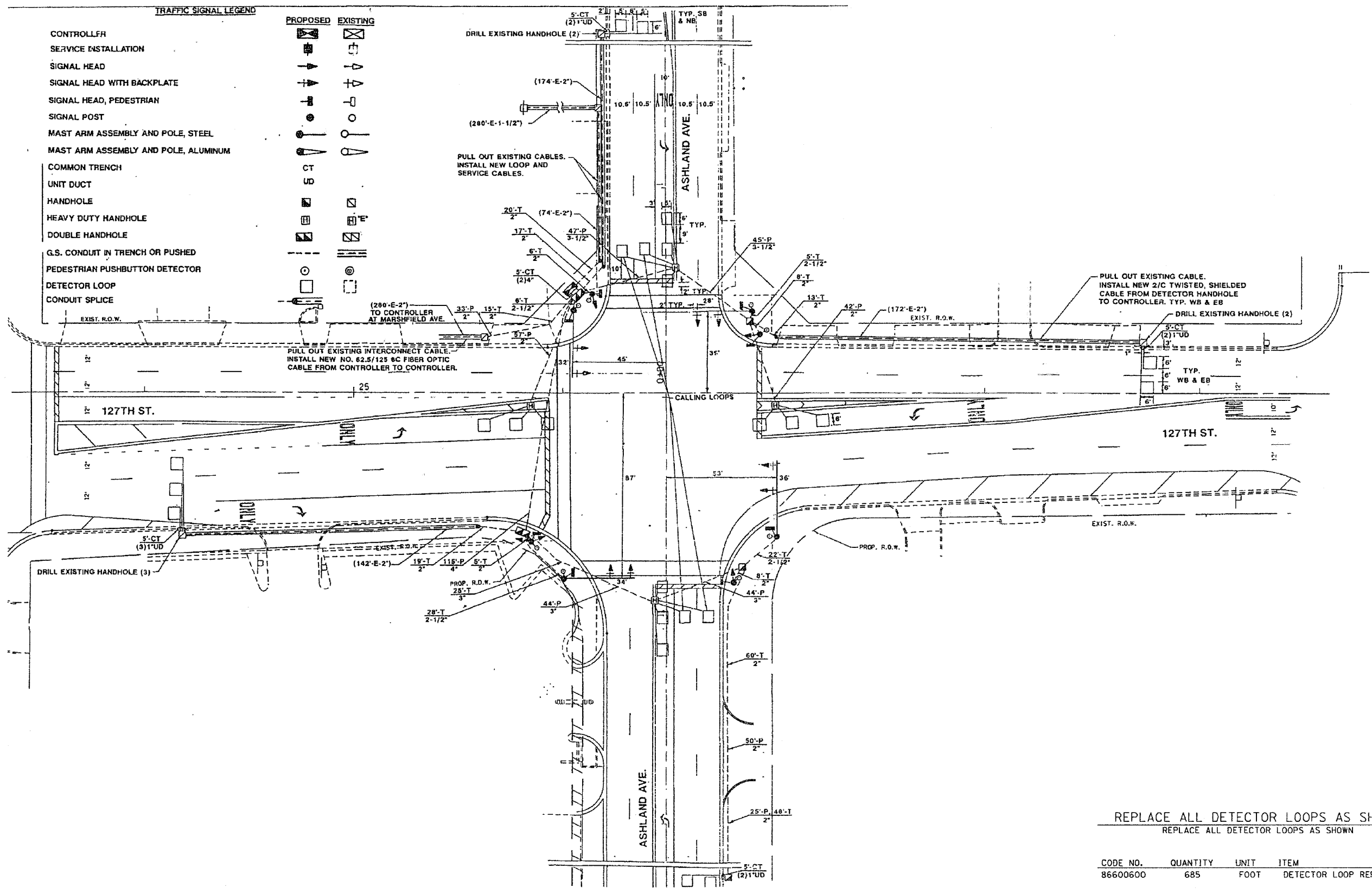
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	1145 & 146) RS-7	COOK	28	15

CONTRACT NO. 60103  
 FED. ROAD DIST. NO. 1 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 AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMMON TRENCH	CT	[Symbol]
UNIT DUCT	UD	[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]
CONDUIT SPLICE	[Symbol]	[Symbol]



REPLACE ALL DETECTOR LOOPS AS SHOWN  
 REPLACE ALL DETECTOR LOOPS AS SHOWN

CODE NO.	QUANTITY	UNIT	ITEM
86600600	685	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: c:\projects\127th\127th.dwg

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

USER NAME = wloncester	DESIGNED - RJR	REVISED -
PLOT SCALE = 50,0000' / 1" = 1'	DRAWN - RJR	REVISED -
PLOT DATE = 12/7/2009	CHECKED - SNS	REVISED -
	DATE - 12/11/2009	REVISED -

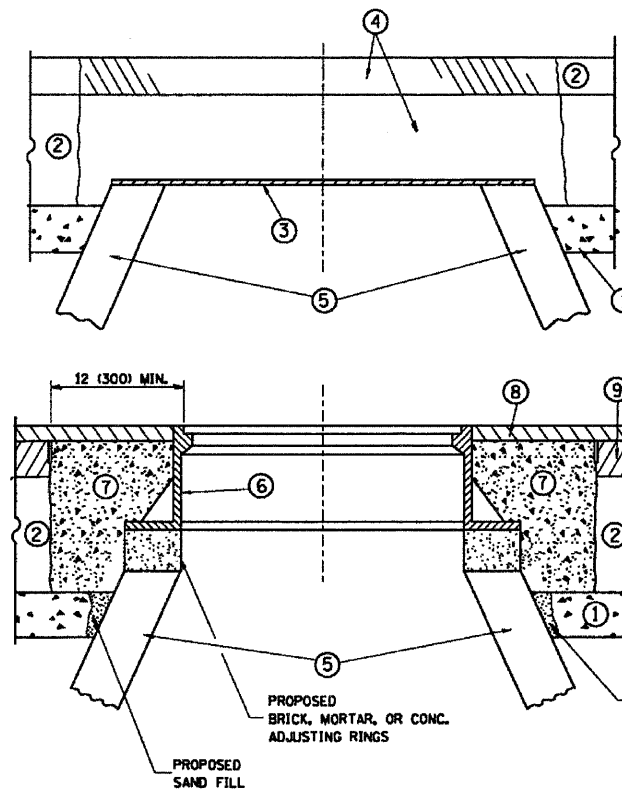
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVENUE / WOOD STREET  
 IL 83 (SIBLEY BOULEVARD) TO 123RD ST  
 DETECTOR LOOP REPLACEMENT PLAN**

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

F.A.U. RTE. 2857	SECTION 145 & 1461 RS-7	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 16
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60103	





**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 1/4 (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

**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.

**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.

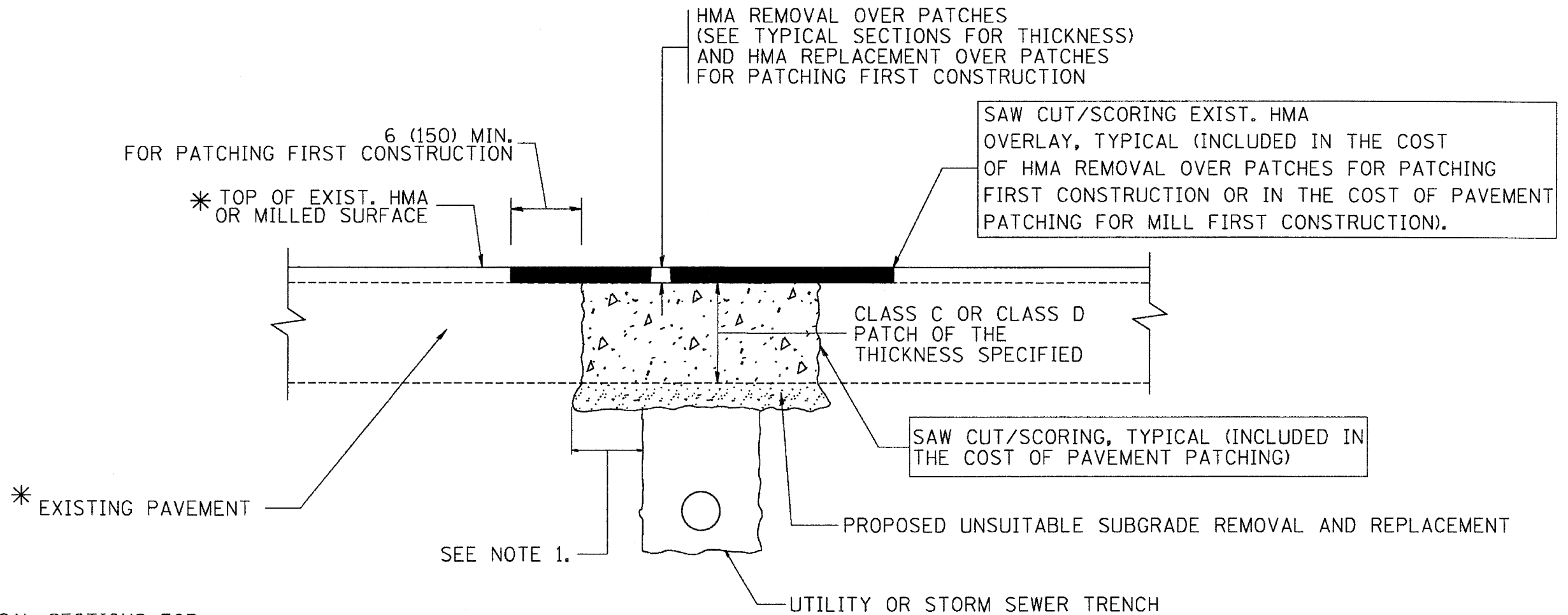
THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

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.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\distratd\22x34\bd08.dgn	USER NAME = gogliobob	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>			F.A.U. RTE. 2857	SECTION (145 & 146) RS-7	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 17
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	CONTRACT NO. 60103		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
	PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. WIEDEMAN 05-14-04									
			REVISED - R. BORD 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)**

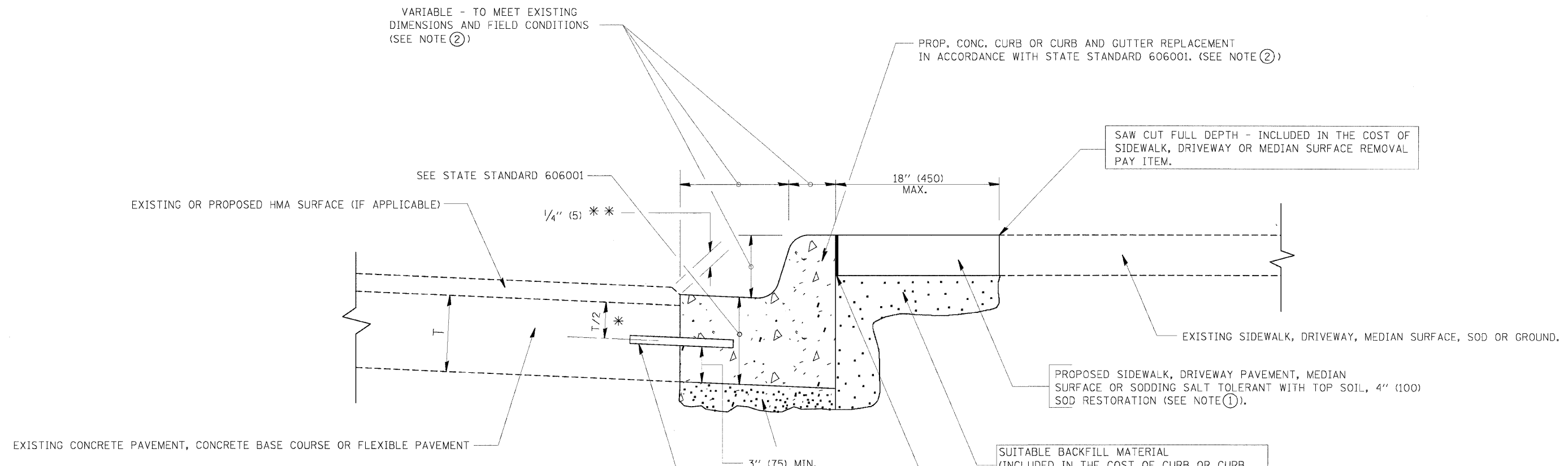
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

**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\distatd22x34\bd22.dgn	USER NAME = bwardl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.J. RTE. 2857	SECTION (145 & 146) RS-T	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 18
	PLOT SCALE = 58.888' / 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	CONTRACT NO. 60103
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - R. BORO 09-04-07									
			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.  
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

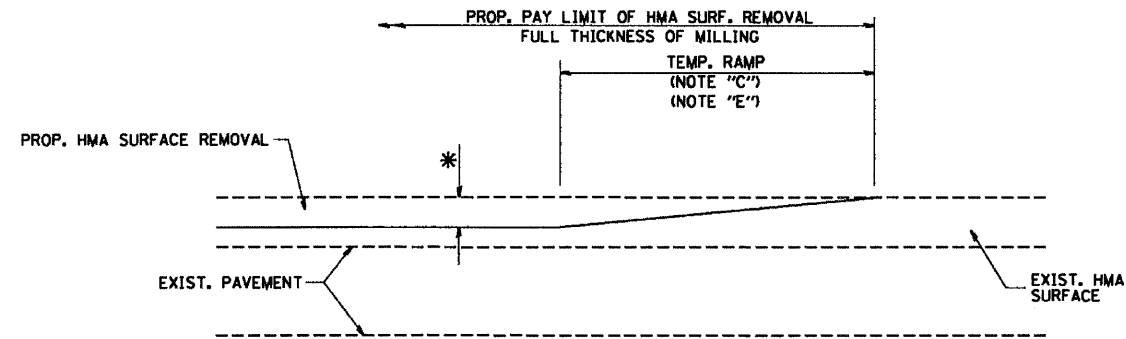
- SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)
- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL 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".

## CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

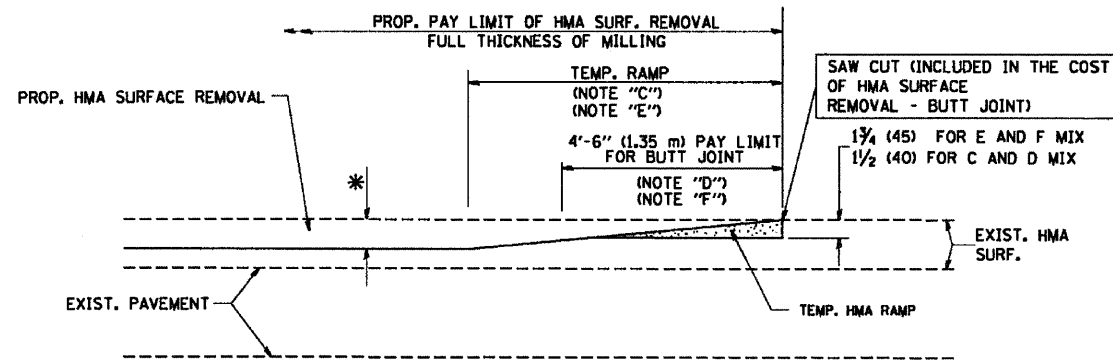
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
es:\pw_work\pwidot\drivakosgn\d0108315\bd24.dgn	DRAWN -	REVISOR - A. ABBAS 03-21-97	2857			(145 & 146) RS-7	COOK	28	19			
PLOT SCALE = 50,000 / IN.	CHECKED -	REVISOR - M. GOMEZ 01-22-01	<b>BD600-06 (BD-24)</b>			CONTRACT NO. 60103						
PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISOR - R. BORO 12-15-09	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
						SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		



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

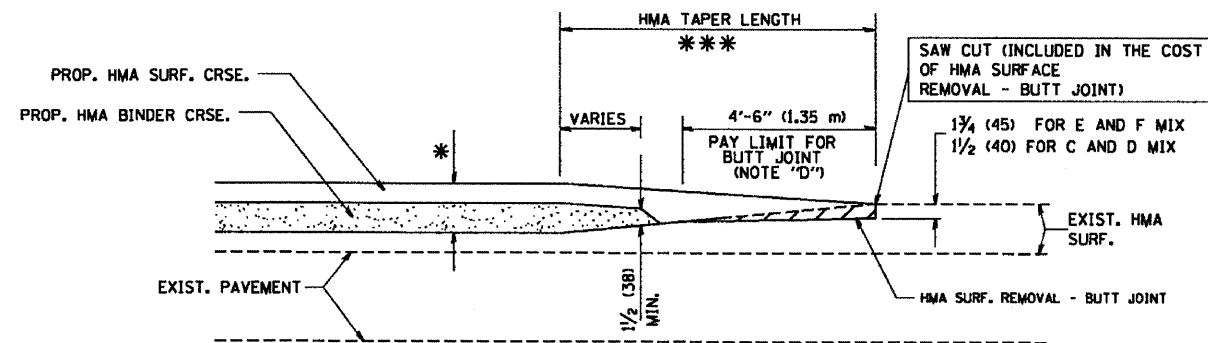
**OPTION 1**



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

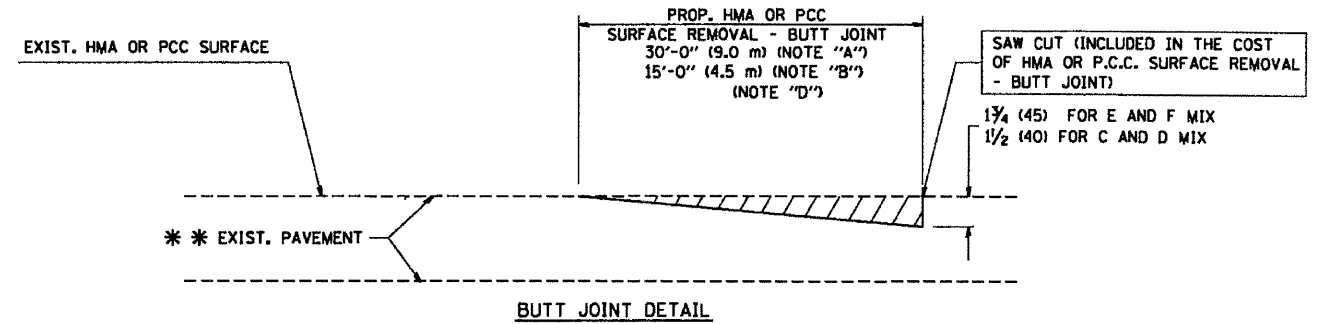
**OPTION 2**

**TYPICAL TEMPORARY RAMP**

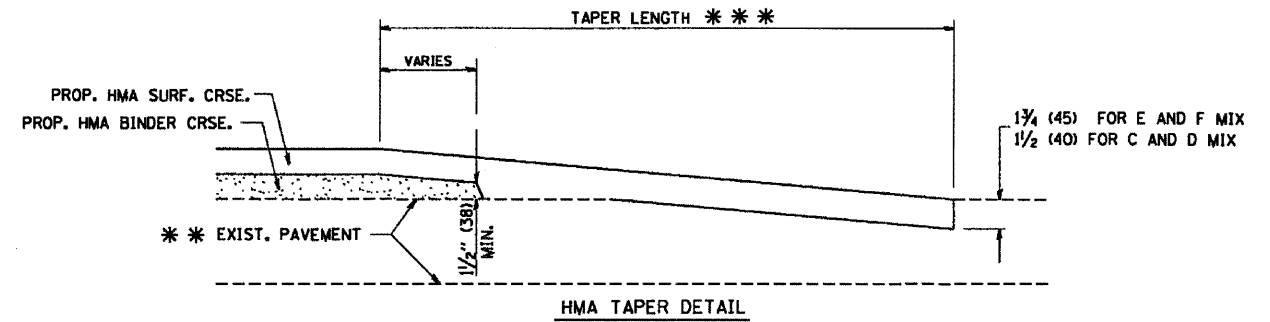


BUTT JOINT AND  
HMA TAPER

**TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY**

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

**NOTES**

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

**BASIS OF PAYMENT:**

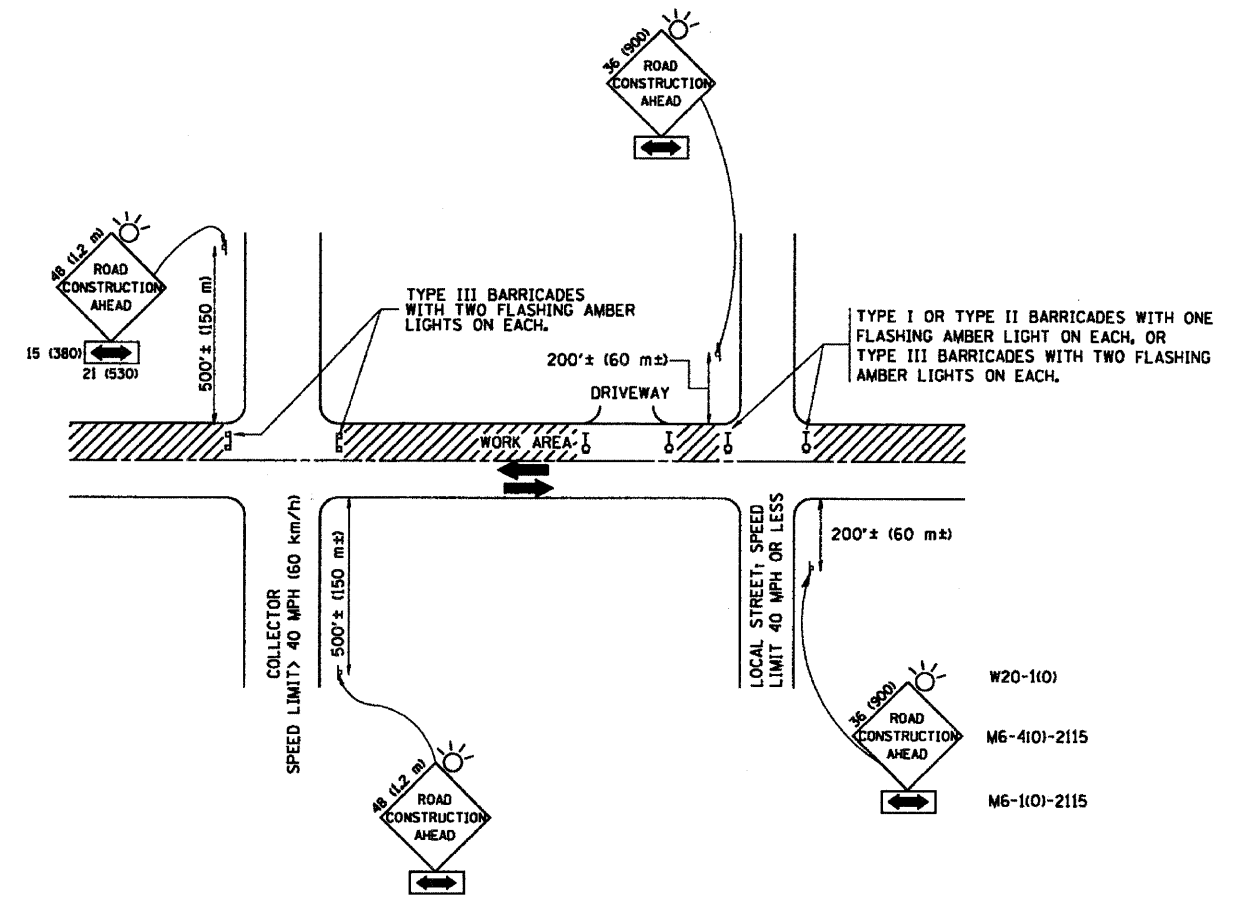
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

FILE NAME = M:\chisatad\22x34\bd32.dgn	USER NAME = geglienobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLOT SCALE = 58.9988 / IN.	DRAWN -	CHECKED -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - M. GOMEZ 04-06-01	REVISED - R. BORD 01-01-01

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	
F.A.U. RTE. 2851	SECTION (145 & 146) RS-7	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 20	
8D400-05 BD32			CONTRACT NO. 60103		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



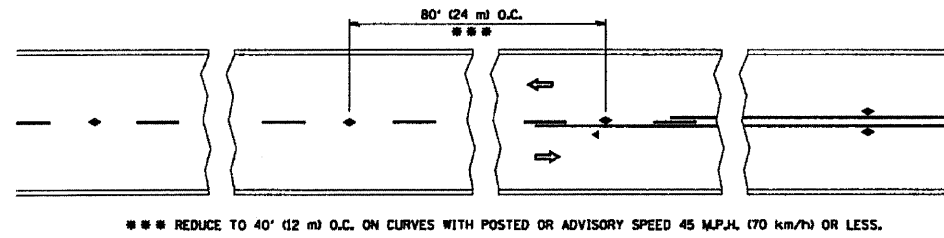
**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

**NOTES:**

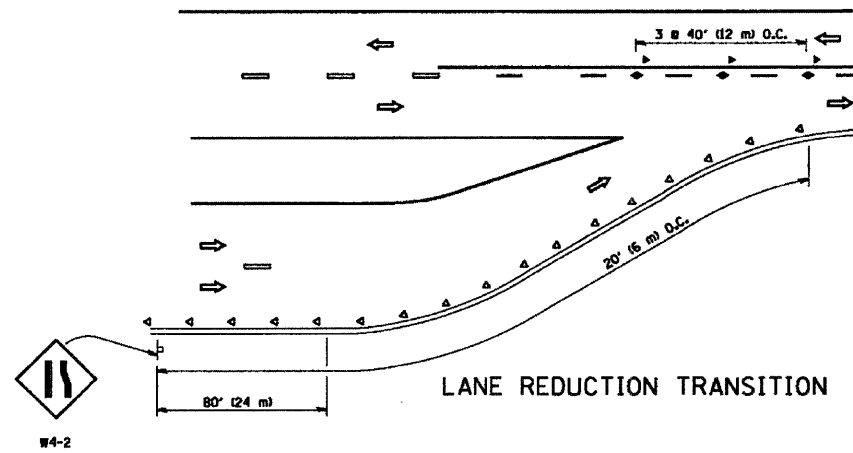
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - 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.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - 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.
    - 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.
  - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

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

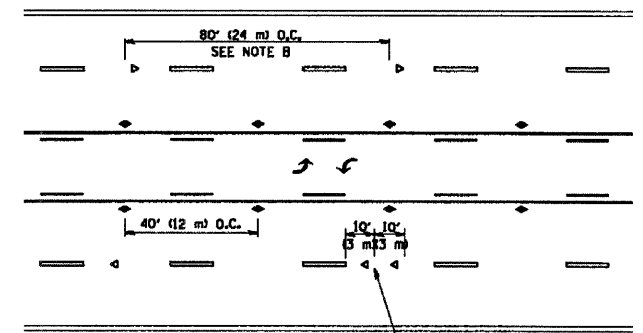
FILE NAME = M:\distrata\22x34\1c18.dgn	USER NAME = geglienobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS</b>	F.A.U. RTE. 2857	SECTION (145 & 146) RS-7	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 21		
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 03-06-96			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-10 CONTRACT NO. 60103		
	PLOT DATE = 1/1/2000	DATE = 06-89	REVISED - T. RAMMACHER 01-06-00			FED. ROAD DIST. NO. ( ILLINOIS) FED. AID PROJECT						



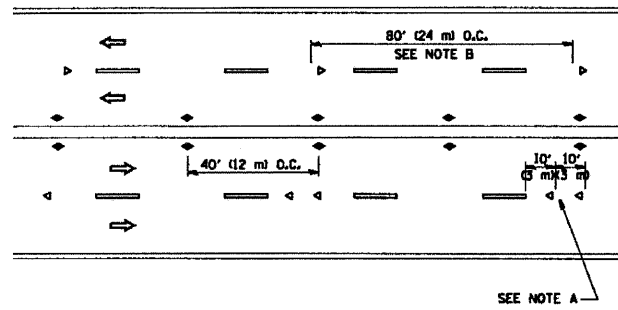
TWO-LANE/TWO-WAY



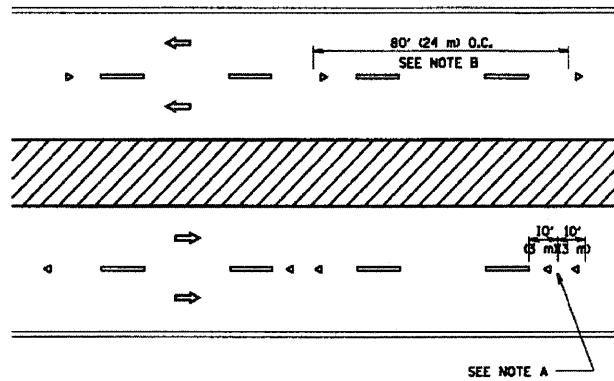
LANE REDUCTION TRANSITION



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 (60 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

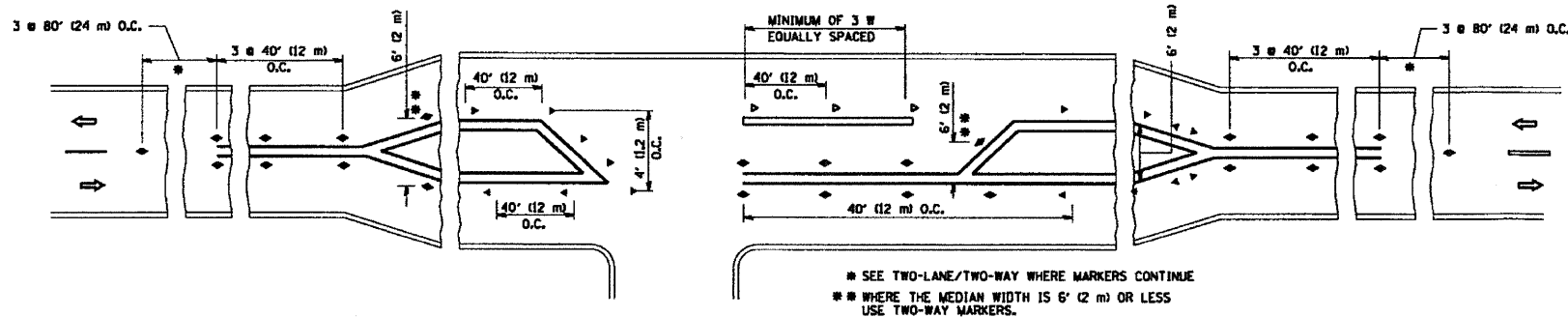
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

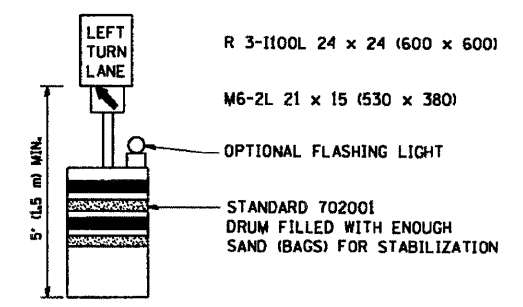
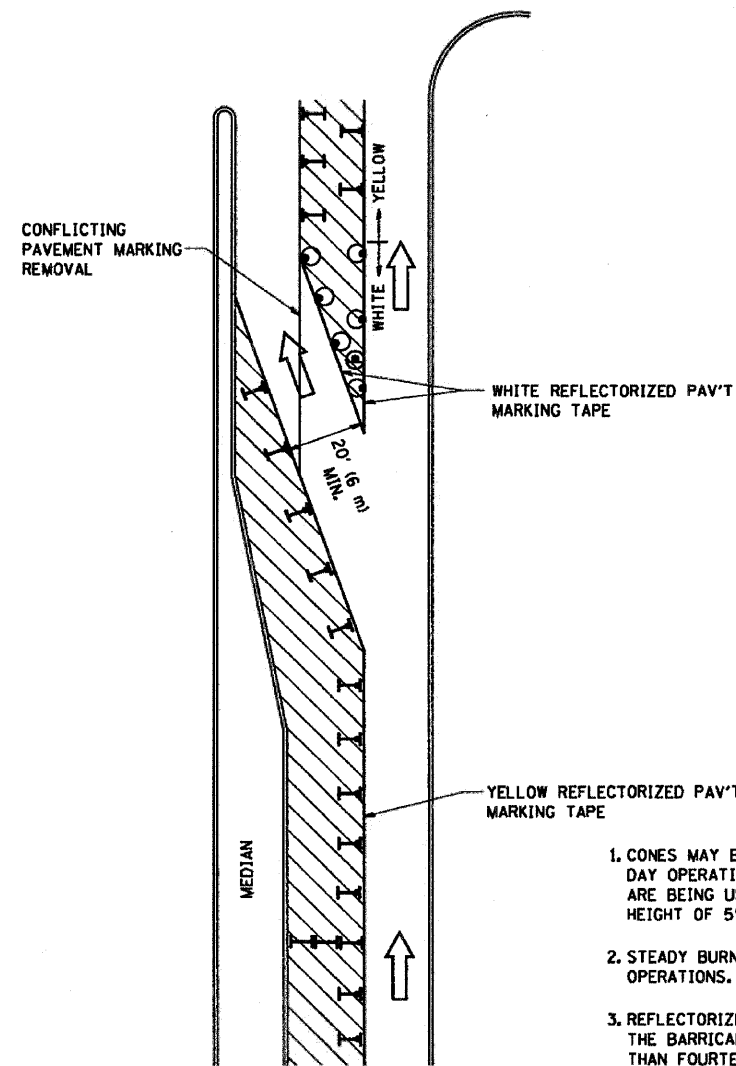


LEFT TURN

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

FILE NAME = W:\data\22x34\1\1.dgn	USER NAME = geglienob1	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000 / 1" =	DRAWN -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	2857	045 & 146) RS-7	COOK	28	22
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 01-06-00					TC-11		CONTRACT NO. 60103		
		DATE -	REVISED -					FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



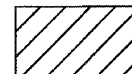







**GENERAL NOTES**

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.

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

**LEGEND**

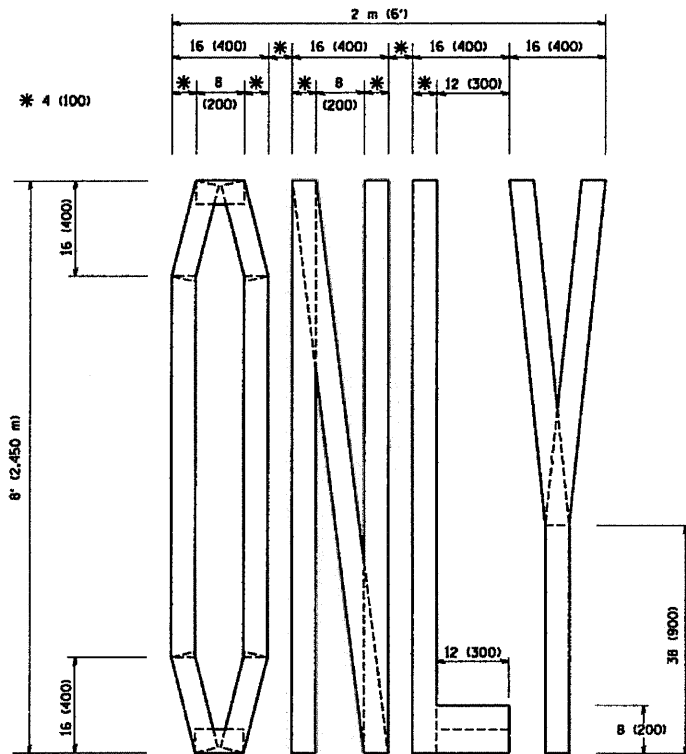
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = goglianobt	DESIGNED -	REVISED -T. RAMMACHER 09-08-94
W:\data\22x34\141.dgn		DRAWN -	REVISED - A. HOUSEH 11-07-95
		CHECKED -	REVISED - A. HOUSEH 10-12-96
		DATE -	REVISED -T. RAMMACHER 01-06-00

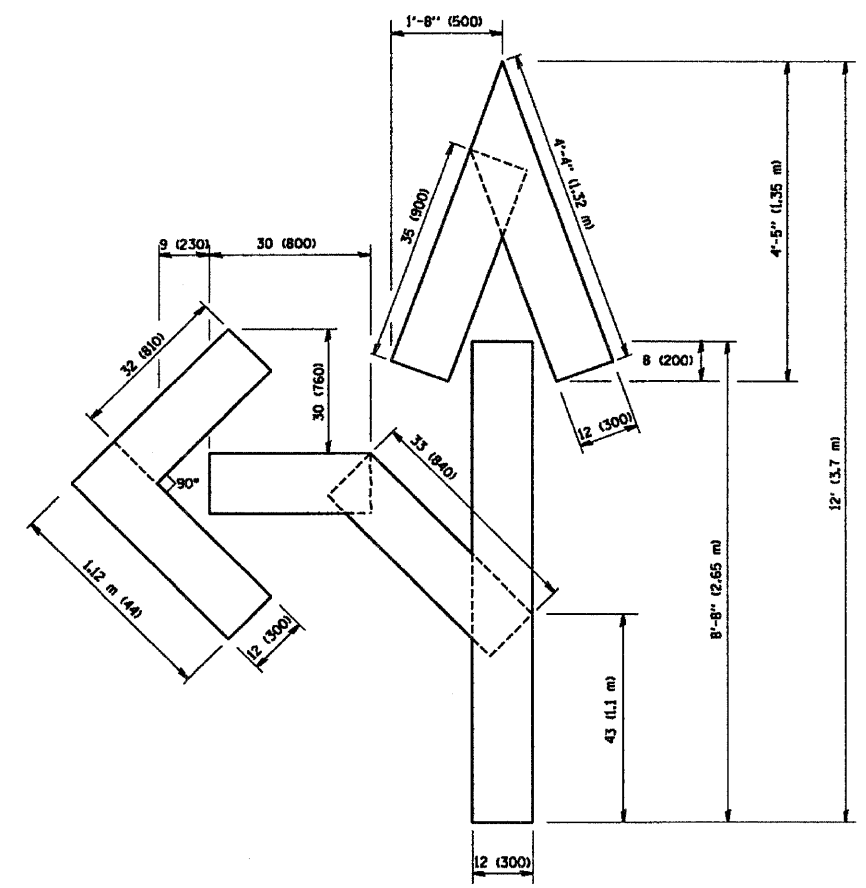
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2857	145 & 146/ RS-7	COOK	28	24
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

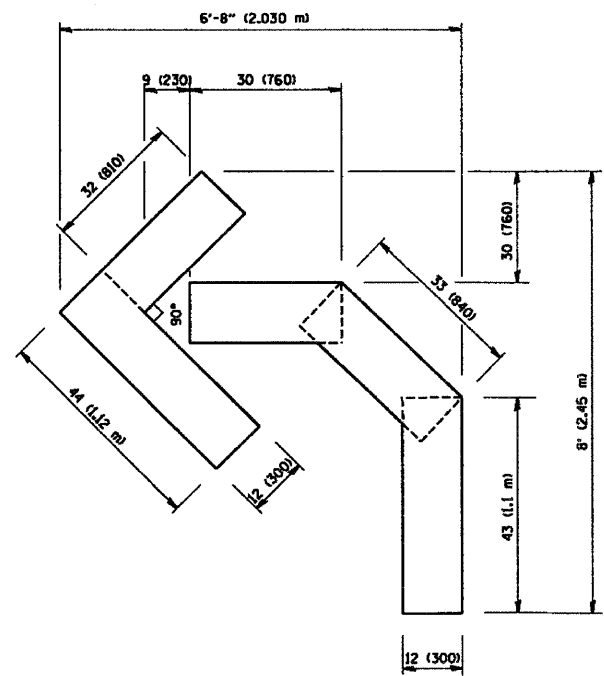




QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



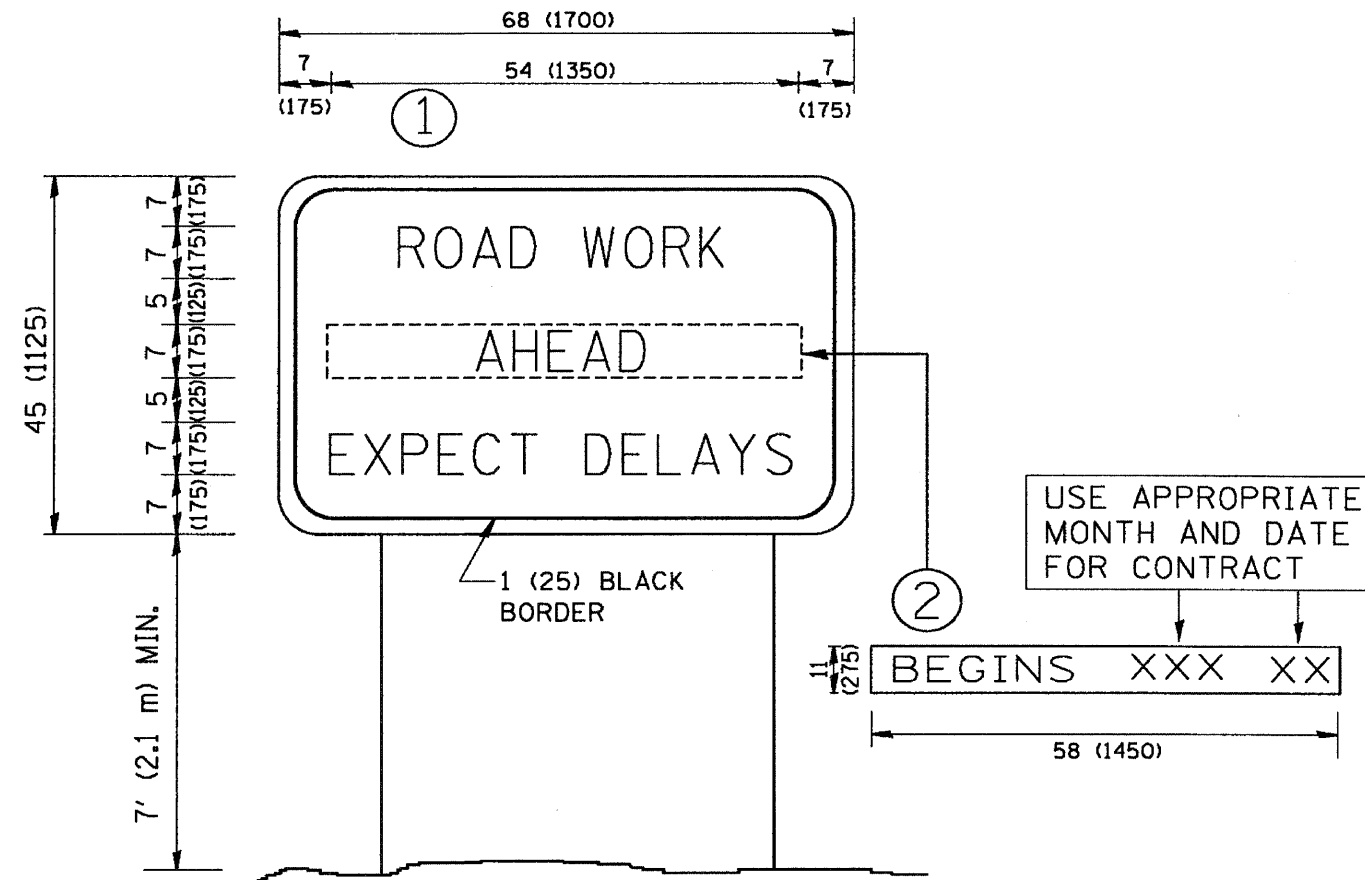
QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



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 = W:\data\d22x34\tbl6.dgn	USER NAME = geglionobt	DESIGNED -	REVISED - T. RAMMACHER 06-05-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
	PLOT SCALE = 5/8" = 1' IN.	CHECKED -	REVISED - T. RAMMACHER 11-04-97					2857	1145 & 146) RS-7	COOK	28 25
	PLOT DATE = 1/4/2008	DATE = 09-18-94	REVISED - E. GOMEZ 08-28-00		REVISED - T. RAMMACHER 03-02-98	TC-16			CONTRACT NO. 60103		
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



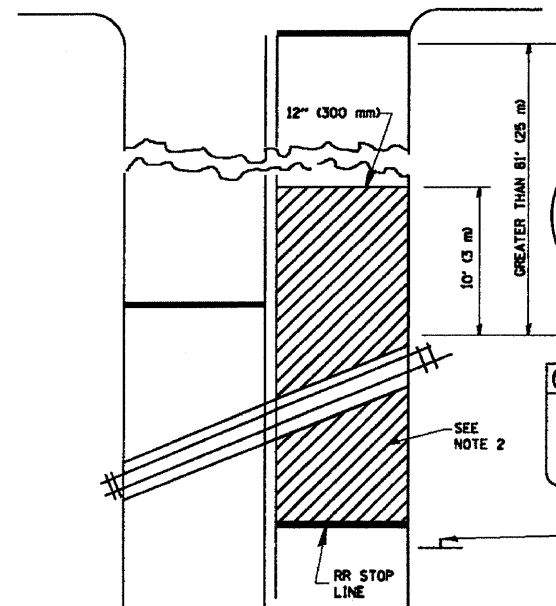
**NOTES:**

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.

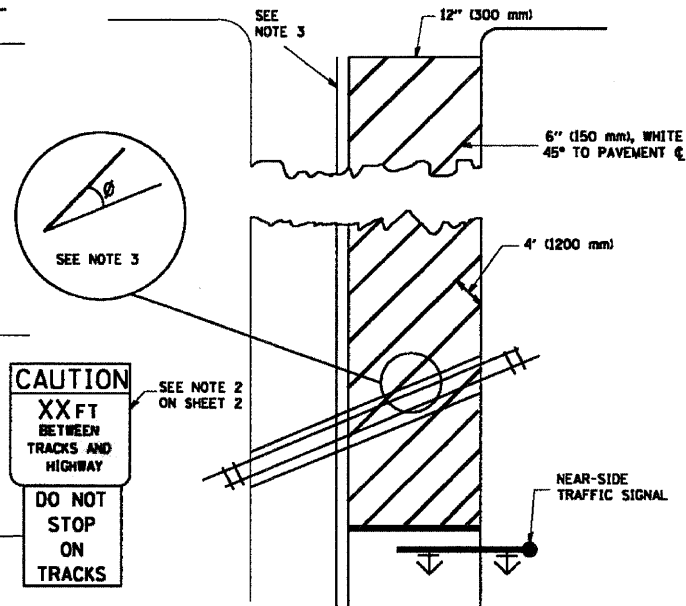
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\drstata\22x34\to22.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>		F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEET NO.		
	PLOT SCALE = 5/8" = 1' IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2857	145 & 1461 RS-7	COOK	28 26
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99						<b>TC-22</b>		CONTRACT NO.	60103
		DATE -	REVISED - C. JUCIUS 01-31-07						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

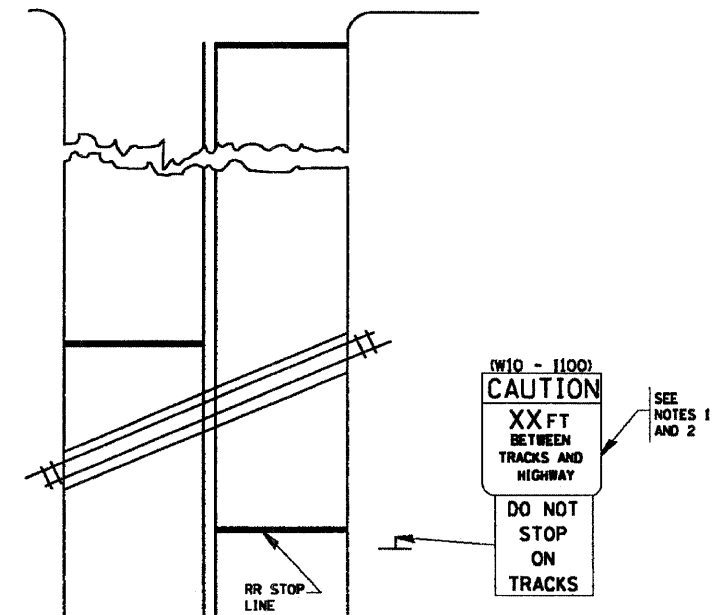
WITH INTERSECTION TRAFFIC SIGNALS



WITH NEAR-SIDE TRAFFIC SIGNALS



WITH NONSIGNALIZED INTERSECTION  
81' (25 m) OR LESS TO CLOSEST RAIL



- NOTES:
1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
  2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
  3. WHERE THE ANGLE BETWEEN THE DIAGONAL STRIPES AND THE TRACK (Ø) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

- NOTE :
1. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
  2. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6-FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

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

FILE NAME = W:\distatd\22434\tc23.dgn	USER NAME = gglienobt	DESIGNED - DRAWN -	REVISED - REVISED -	01-01-07	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS</b>			F.A.I.L. RTE. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 5/8" = 1' IN.	CHECKED -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2857	(145 & 146) RS-7	COOK	28	27
	PLOT DATE = 1/11/2008	DATE -	REVISED -							TC-23		CONTRACT NO. 60103		
										FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

