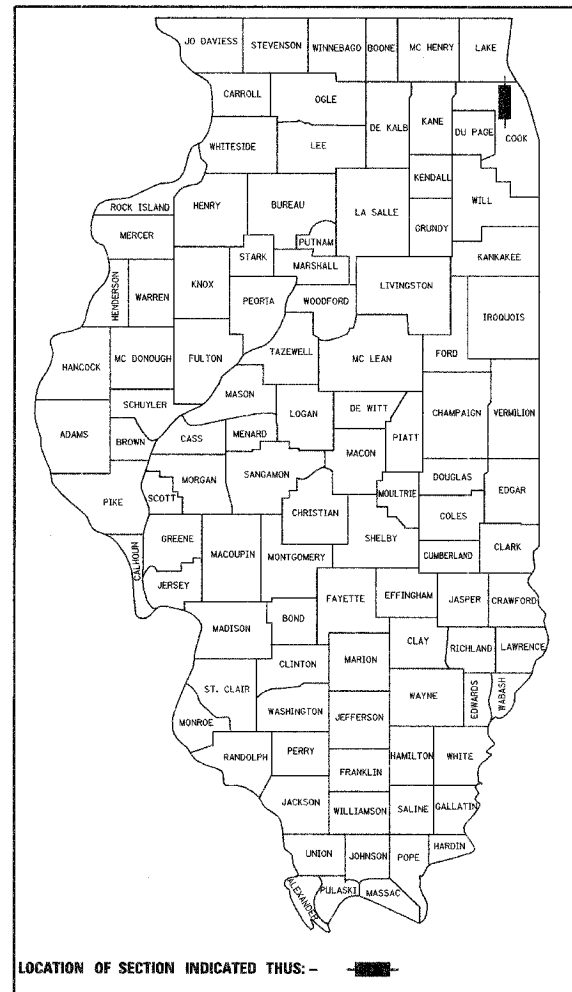


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	1
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63035	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR**

**PROPOSED FEDERAL-AID HIGHWAY**

**F.A.U. ROUTE 2791 (AUSTIN AVENUE)  
F.A.U. ROUTE 1332 (OAKTON STREET)  
TO F.A.U. ROUTE 1313 (BECKWITH ROAD)  
STREET RESURFACING  
SECTION 07-00101-00-RS  
PROJECT NO: M-8003(821)  
COOK COUNTY  
C-91-317-07**

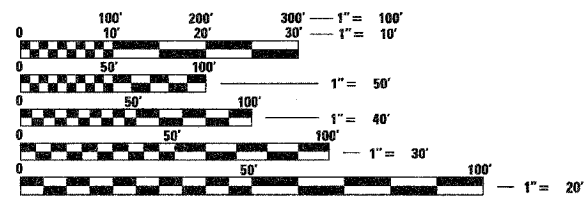


ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH (847) 705-4169  
CONSULTANT: CIORBA GROUP, INC. (773) 775-4009

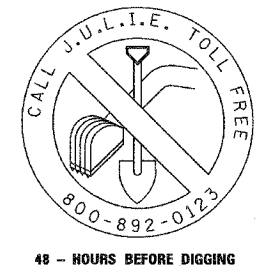
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
**DESIGN DESIGNATION**  
AUSTIN AVENUE  
FUNCTIONAL CLASSIFICATION: LOCAL COLLECTOR  
DESIGN SPEED = 25 MPH  
POSTED SPEED = 25 MPH

**TRAFFIC DATA**  
AUSTIN AVENUE  
EXISTING ADT = 9600 (2007)  
DESIGN ADT = 10100 (2016)

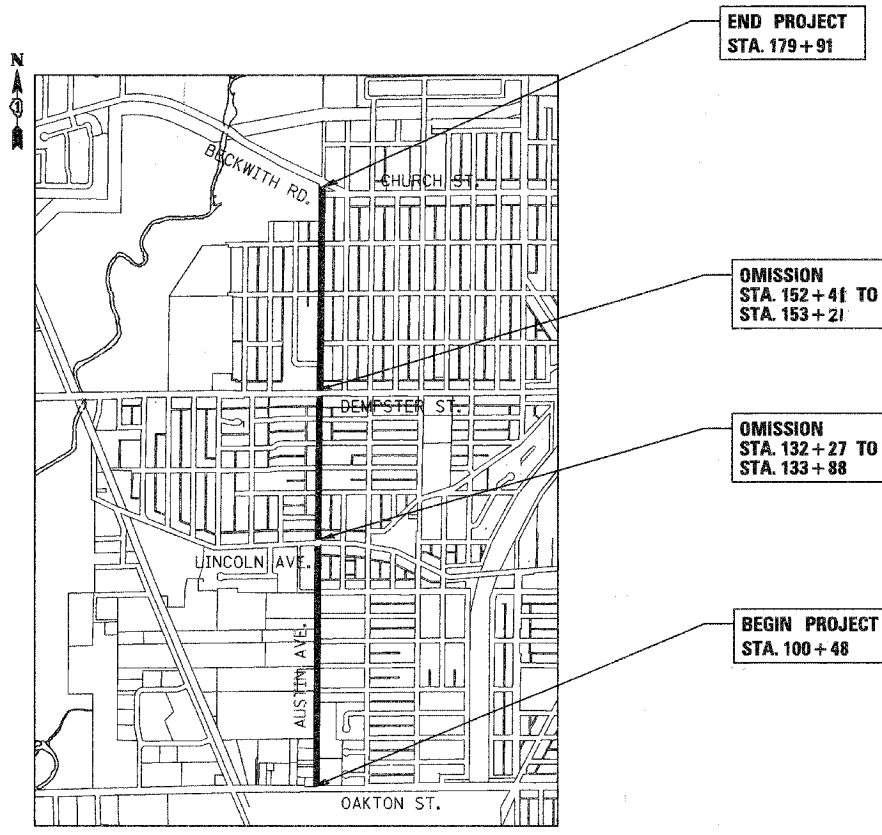
**PROJECT LOCATED IN THE VILLAGE OF MORTON GROVE**



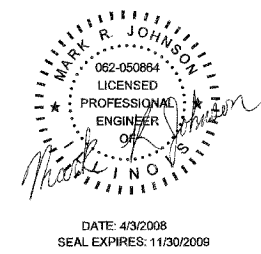
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



**CONTRACT NO : 63035**  
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123



**LOCATION MAP**  
T 41N, R 13E (MILES TOWNSHIP)  
GROSS LENGTH OF PROJECT = 7943 FT = 1.50 MI  
NET LENGTH OF PROJECT = 7702 FT = 1.46 MI



APPROVED *[Signature]*  
VILLAGE OF MORTON GROVE, VILLAGE ENGINEER  
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**  
PASSED *[Signature]* April 7, 2008  
DISTRICT 1 ENGINEER OF LOCAL ROAD & STREETS  
RELEASING FOR BID  
BASED ON LIMITED REVIEW  
APRIL 7, 2008  
*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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

**Ciorba Group, Inc.**  
DESIGN FIRM  
REGISTRATION NUMBER  
184-001016  
CONSULTING ENGINEERS  
SUITE 402, 5507 NORTH CUMBERLAND AVE  
CHICAGO, ILLINOIS 60656 ☎ (773) 775-4009  
PLANS PREPARED BY: CIORBA GROUP

GENERAL NOTES

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424001-05 CURB RAMP FOR SIDEWALKS

442201-03 CLASS C AND D PATCHES

602001 CATCH BASIN TYPE A

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604001-02 FRAME AND LIDS, TYPE I

604051-02 FRAME AND GRATE TYPE 11

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701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701501-04 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

701606-05 URBAN LANE CLOSURE MULTILANE, 2W, MOUNTABLE MEDIAN

701701-05 URBAN LANE CLOSURE MULTILANE INTERSECTION

701801-03 LANE CLOSURE MULTILANE 1W, 2W, CROSSWALK OR SIDEWALK CLOSURE

701901 TRAFFIC CONTROL DEVICES

780001-01 TYPICAL PAVEMENT MARKINGS

886001 DETECTOR LOOP INSTALLATIONS

886006 TYPICAL LAYOUTS FOR DETECTION LOOPS

A. GENERAL

1. EARTHWORK AND PAVING SPECIFICATIONS  
THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, AND ALL ADDENDA THERETO, SHALL GOVERN THE PAVING WORK UNDER THIS CONTRACT, EXCEPT AS MODIFIED BY THESE SPECIFICATIONS.
2. UNDERGROUND SPECIFICATIONS  
THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, SHALL GOVERN THE UNDERGROUND WORK UNDER THIS CONTRACT, EXCEPT AS MODIFIED BY THESE SPECIFICATIONS.
3. WORK  
WORK SHALL MEAN THE FURNISHING OF ALL LABOR, MATERIAL, EQUIPMENT AND OTHER INCIDENTALS NECESSARY OR CONVENIENT TO THE SUCCESSFUL COMPLETION OF THE IMPROVEMENTS DESIGNED BY THE ENGINEER AND SHOWN ON THIS SET OF PLANS. WORK SHALL ALSO INCLUDE CARRYING OUT OF ALL THE DUTIES AND OBLIGATIONS IMPOSED BY THE AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR FOR THE PROPER INSTALLATION AND ACCEPTANCE OF THE IMPROVEMENTS DESIGNED BY THE ENGINEER AND SHOWN ON THIS SET OF PLANS.
4. COMPLIANCE WITH LOCAL ORDINANCES  
ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE VILLAGE OF MORTON GROVE'S ORDINANCES AND STANDARDS.
5. EXISTING UTILITIES  
WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION AND ELEVATIONS OF UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER, AS TO LOCATION AND ELEVATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDERS. THE ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION AND ELEVATION OF UTILITY FACILITIES, NOR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT IS EACH CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE ACTUAL LOCATION AND ELEVATION OF ALL UTILITIES. EACH CONTRACTOR AND SUBCONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION AND ELEVATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.
6. SAFETY OF WORK  
EACH CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. EACH CONTRACTOR AND SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
  - A) ALL EMPLOYEES ON THE WORK AND OTHER PERSONS AND ORGANIZATIONS WHO MAY BE AFFECTED THEREBY;
  - B) ALL THE WORK AND MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHATEVER IN STORAGE ON OR OFF THE SITE.
  - C) OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES, UTILITIES AND UNDERGROUND FACILITIES NOT DESIGNATED FOR REMOVAL, RELOCATIONS OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.
  - D) EACH CONTRACTOR AND SUBCONTRACTOR SHALL DESIGNATE A RESPONSIBLE REPRESENTATIVE AT THE SITE WHOSE DUTY SHALL BE THE PREVENTION OF ACCIDENTS. THIS PERSON SHALL BE THE CONTRACTOR'S SUPERINTENDENT UNLESS OTHERWISE DESIGNATED IN WRITING BY THE CONTRACTOR TO OWNER.

B. PAVING

7. EXISTING ELEVATIONS AND LOCATIONS  
EVERY CONTRACTOR AND SUBCONTRACTOR SHALL VERIFY THE ELEVATIONS AND LOCATIONS OF ALL EXISTING INFORMATION AS SHOWN ON THE PLANS AND NOTIFY THE ENGINEER OF ALL DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORK.
8. NOTIFICATION  
THE VILLAGE OF MORTON GROVE'S ENGINEER SHALL BE NOTIFIED BY EVERY CONTRACTOR AND SUBCONTRACTOR AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
9. COMPLIANCE WITH LAWS AND REGULATIONS  
EVERY CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE SAFETY LAWS, REGULATIONS AND ORDINANCES; AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS AND WITH ALL PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. EACH CONTRACTOR AND SUBCONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION, DIRECTION AND CONDUCT OF THEIR EMPLOYEES, AGENTS, MATERIAL SUPPLIERS AND VENDORS.
10. PAVEMENT DISTURBED DURING CONSTRUCTION  
ANY EXISTING ROADWAY PAVEMENT OR SHOULDER DISTURBED DURING CONSTRUCTIONS SHALL BE RESTORED IN ACCORDANCE WITH I.D.O.T. AND VILLAGE OF MORTON GROVE STANDARDS.
11. FINAL FRAME ADJUSTMENTS  
THE PAVING CONTRACTOR SHALL MAKE ALL NECESSARY FINAL ADJUSTMENTS TO EXISTING AND PROPOSED FRAMES, GRATES, LIDS, AND STRUCTURES TO MEET FINAL FINISHED GRADES.
12. RECORD DRAWINGS  
EACH CONTRACTOR AND SUBCONTRACTOR SHALL MAINTAIN AND KEEP UP TO DATE A SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT. THE ENGINEER WILL TRANSFER THE INFORMATION TO THE ORIGINAL PLANS.
13. CONTRACTOR(S)  
FOR THE PURPOSE OF THESE SPECIFICATIONS, THE TERMS CONTRACTOR AND SUBCONTRACTOR SHALL MEAN ANY PERSON OR ENTITY THAT PROVIDES WORK FOR THE IMPROVEMENTS AS SHOWN ON THESE PLANS. THE ENGINEER, OWNER AND THE ARCHITECT ARE NOT CONSIDERED CONTRACTORS OR SUBCONTRACTORS.
 

ANY SIGN LOCATED IN THE PUBLIC RIGHT-OF-WAY WHICH INTERFERES WITH CONSTRUCTION OF THE PROPOSED ROADWAY WORK OR LIGHTING SYSTEM THAT IS INTENDED TO BE MAINTAINED SHALL BE RELOCATED. THIS WORK IS INCIDENTAL TO THIS PROJECT. ALL WORK INVOLVING SIGN REMOVAL SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:

EVERY SIGN RELOCATED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO TRAFFIC FOR WHICH IT WAS INTENDED. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF TEMPORARY SETTING. THIS WORK INCLUDES PROVIDING A SIGN POST FOR THE TEMPORARY LOCATION, SHOULD SUCH A POST BE NECESSARY

ALL SIGNS SHALL BE RE-ERECTED IN THE ORIGINAL LOCATION AS THE IMPROVEMENTS ARE COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SIGNS DAMAGED BY HIS/HER CONSTRUCTION ACTIVITIES AND WILL REPLACE THEM AT NO COST TO THE VILLAGE. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
14. GRASS AREAS WITHIN RIGHT-OF-WAY  
ALL GRASS AREAS WITHIN THE RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY PLACING A MINIMUM OF 4" TOPSOIL AND SALT TOLERANT SOD. 4" TOPSOIL AND SALT TOLERANT SOD ARE INCIDENTAL TO THE CONTRACT.


C. RESTORATION AND TREE PRESERVATION

1. ALL DISTURBED LAWN AREAS WITHIN THE PUBLIC RIGHT-OF-WAY/EASEMENTS WILL BE RESTORED WITH 4" OF TOPSOIL AND SALT TOLERANT SOD. 4" TOPSOIL AND SALT TOLERANT SOD ARE INCIDENTAL TO THE CONTRACT.
2. SODDING SHALL INCLUDE A MINIMUM OF 4 INCHES OF TOPSOIL AND SHALL BE DONE IN CONFORMANCE WITH SECTION 252 OF I.D.O.T. STANDARDS.
3. ALL PARKWAY TREES SHALL BE PRESERVED. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO SUCH TREES AND SHALL PROVIDE TEMPORARY FENCES AND OTHER MEASURES, AS NECESSARY, WITH ALL SUCH MEASURES CONSIDERED AS INCIDENTAL TO THE CONTRACT.

D. DIMENSIONS

1. ALL DIMENSIONS ARE FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.

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 <p><b>Ciorba Group, Inc.</b> CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014</p>	USER NAME =	DESIGNED - CLG	REVISED -	<p><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p><b>AUSTIN AVENUE</b> <b>INDEX OF SHEETS /GENERAL NOTES /STATE STANDARDS</b></p>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - MRJ	REVISED -		2791	07-00101-00-RS	COOK	29	2				
	PLOT DATE = 3/21/2008	DATE March 2008	REVISED -		CONTRACT NO. 63035				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY 1000-2A
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	50
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	20
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	7400
40600300	AGGREGATE (PRIME COAT)	TON	150
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	30
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	575
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3200
42001300	PROTECTIVE COAT	SQ YD	1500
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	90
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	110
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	8500
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	100
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	100
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	37000
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	200
44000600	SIDEWALK REMOVAL	SQ FT	8500
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1900
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	10
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	80
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	250
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	1050
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	4
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4
60250200	CATCH BASINS TO BE ADJUSTED	EACH	9
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1
60255500	MANHOLES TO BE ADJUSTED	EACH	2
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1
60260100	INLETS TO BE ADJUSTED	EACH	16
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	109
60500040	REMOVING MANHOLES	EACH	4

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY 1000-2A
60500050	REMOVING CATCH BASINS	EACH	1
60500060	REMOVING INLETS	EACH	3
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3200
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	540
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	182
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6500
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2200
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	700
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	450
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	280
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	300
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	15
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	50
* 81400115	HANDHOLE TO BE ADJUSTED	EACH	1
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1000
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1600
42400800	DETECTABLE WARNINGS	SQ FT	450
Δ Z0076600	TRAINEES	HR	500

\* SPECIALTY ITEM

Δ Y080

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CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
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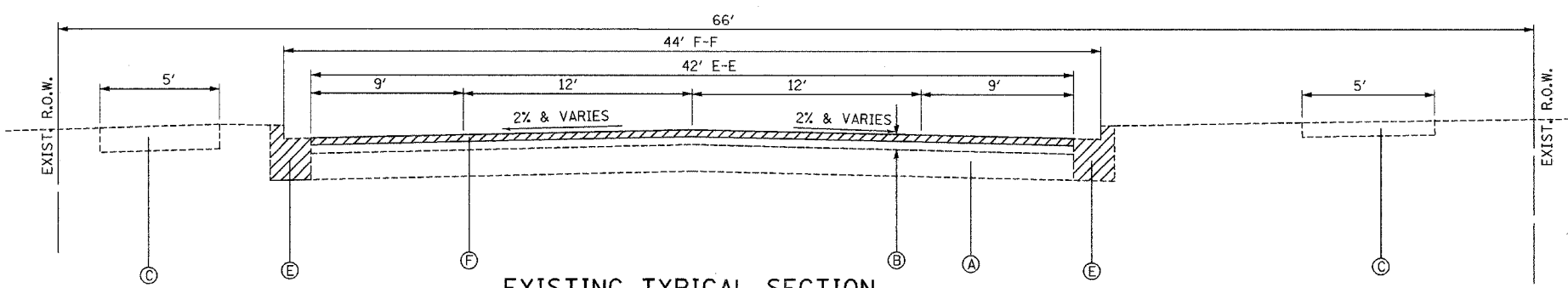
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

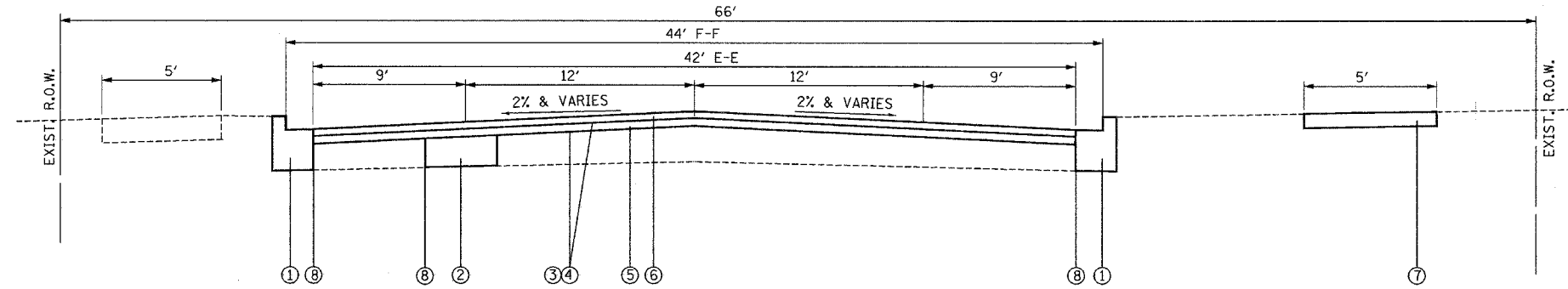
AUSTIN AVENUE SUMMARY OF QUANTITIES

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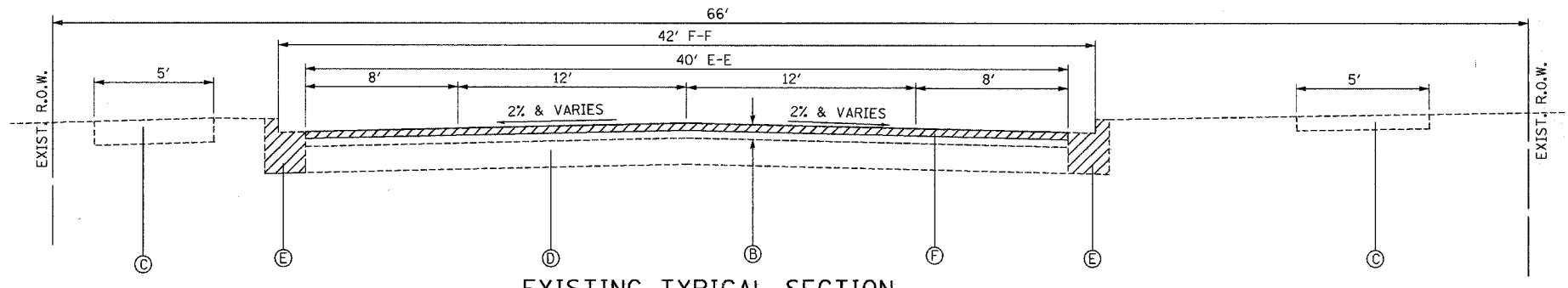
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CONTRACT NO. 63035				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



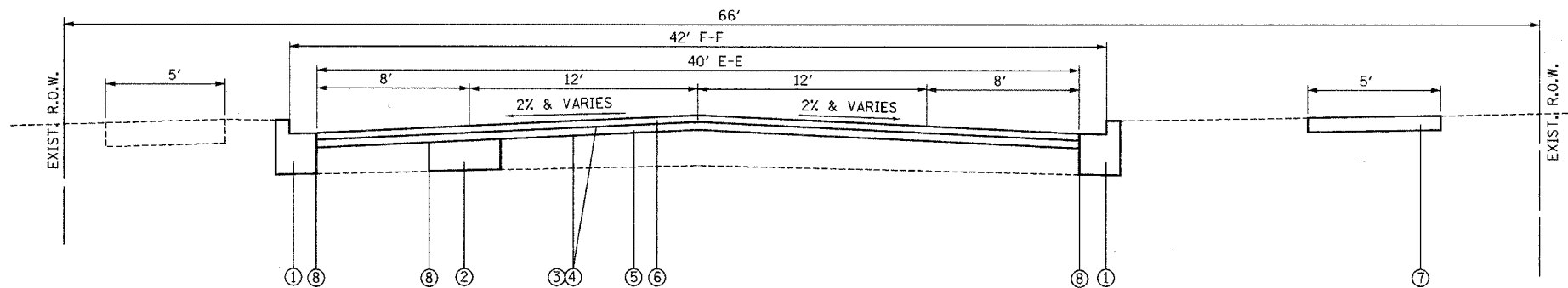
EXISTING TYPICAL SECTION  
OAKTON STREET TO LINCOLN AVENUE  
STA. 100+48 TO STA. 132+27



PROPOSED TYPICAL SECTION  
OAKTON STREET TO LINCOLN AVENUE  
STA. 100+48 TO STA. 132+27



EXISTING TYPICAL SECTION  
LINCOLN AVENUE TO CHURCH STREET  
STA. 133+88 TO STA. 152+46  
STA. 153+55 TO STA. 179+91



PROPOSED TYPICAL SECTION  
LINCOLN AVENUE TO CHURCH STREET  
STA. 133+88 TO STA. 152+46  
STA. 153+55 TO STA. 179+91

- EXISTING CONDITIONS**
- Ⓐ EXISTING POZZOLANIC BASE - 7 1/2" TO 11"
  - Ⓑ HOT-MIX ASPHALT PAVEMENT - 3" TO 5"
  - Ⓒ PCC SIDEWALK (REMOVAL AS DIRECTED BY THE ENGINEER)
  - Ⓓ EXISTING PCC BASE- 7 3/4" TO 8 1/2"
  - Ⓔ COMBINATION CONCRETE CURB & GUTTER (REMOVAL AS DIRECTED BY THE ENGINEER)
  - Ⓕ HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"

- PROPOSED IMPROVEMENTS**
- ① COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)
  - ② CLASS D PATCHES, 10"
  - ③ BITUMINOUS MATERIALS (PRIME COAT)
  - ④ AGGREGATE (PRIME COAT)
  - ⑤ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (3/4")
  - ⑥ HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (1 1/2")
  - ⑦ PORTLAND CEMENT SIDEWALK 5" (AS DIRECTED BY THE ENGINEER)  
6" DEPTH AT RESIDENTIAL DRIVEWAYS  
8" DEPTH AT COMMERCIAL DRIVEWAYS AND ALLEYS
  - ⑧ FULL DEPTH SAWCUT (INCIDENTAL)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (1.5")	PG 64-22	4% @ 70 GYR
CLASS D PATCHES, 10" TYPE I TO IV (HMA BINDER IL-19.0)	PG 64-22*	4% @ 70 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES QUANTITIES IS 112 LBS/SQ YD/IN. USE 105 LBS/SQ YD/IN IF USING POLYMERIZED LEVELING BINDER.  
\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

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

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PLOT SCALE =	DRAWN - CLG	REVISED -
PLOT DATE = 4/7/2008	CHECKED - MRJ	REVISED -
	DATE March 2008	REVISED -

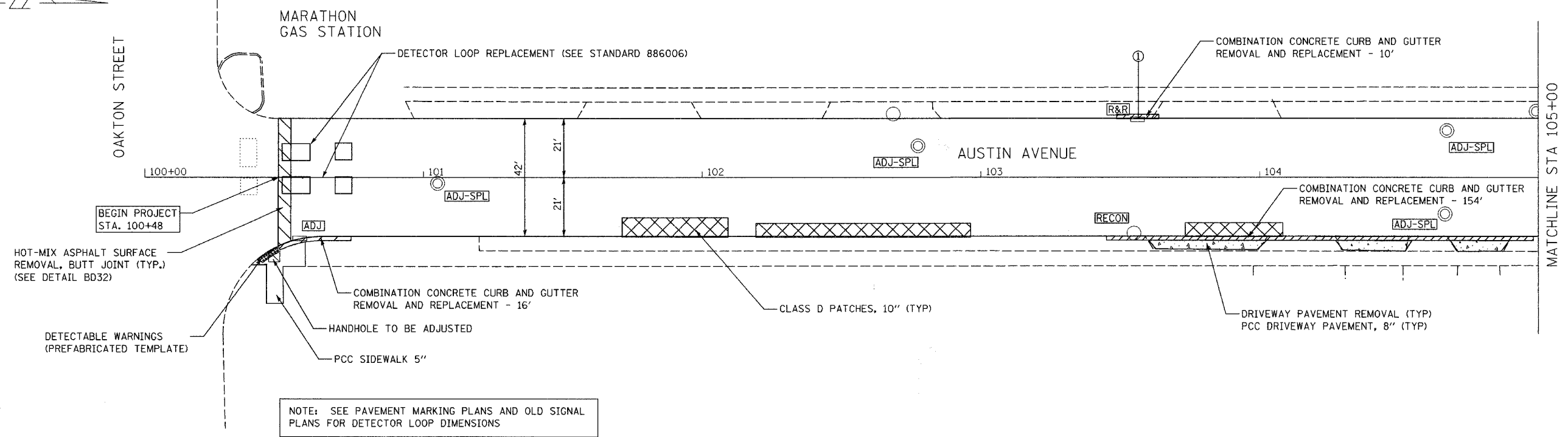
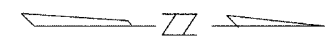
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE TYPICAL SECTIONS**

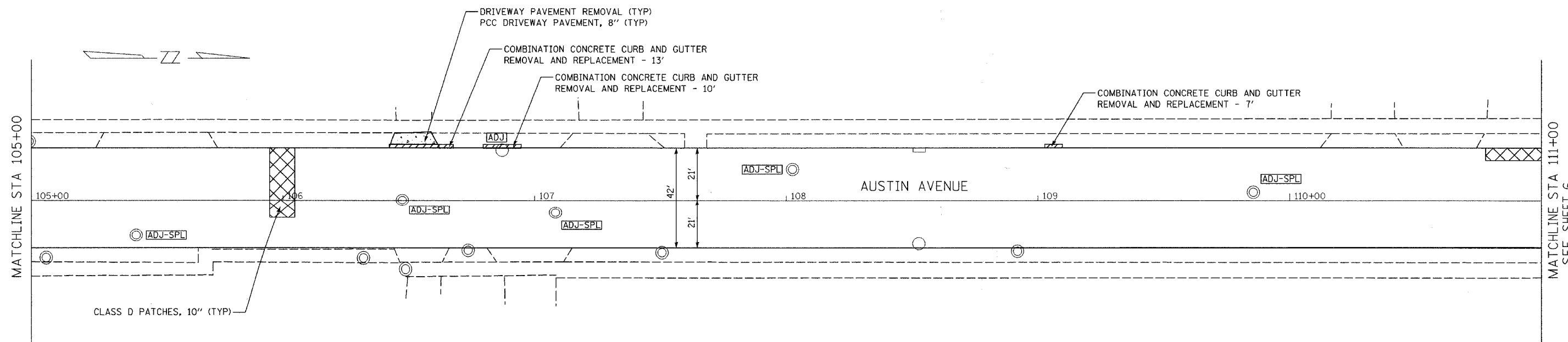
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2791	07-00101-00-RS	COOK	29	4
CONTRACT NO. 63035				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

① STA 103+55 20' LT  
CATCH BASIN, TY. A, 4' DIA.  
TY.1 FRAME, OPEN LID



NOTE: SEE PAVEMENT MARKING PLANS AND OLD SIGNAL PLANS FOR DETECTOR LOOP DIMENSIONS



**LEGEND:**  
 [ADJ] STRUCTURE TO BE ADJUSTED  
 [ADJ-SPL] FRAME AND LIDS TO BE ADJUSTED, SPECIAL  
 [RECON] STRUCTURE TO BE RECONSTRUCTED  
 [R&R] STRUCTURE REMOVAL AND REPLACEMENT

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 Chicago, Illinois 60656  
 Tel. 773.775.4009 Fax 773.775.4014

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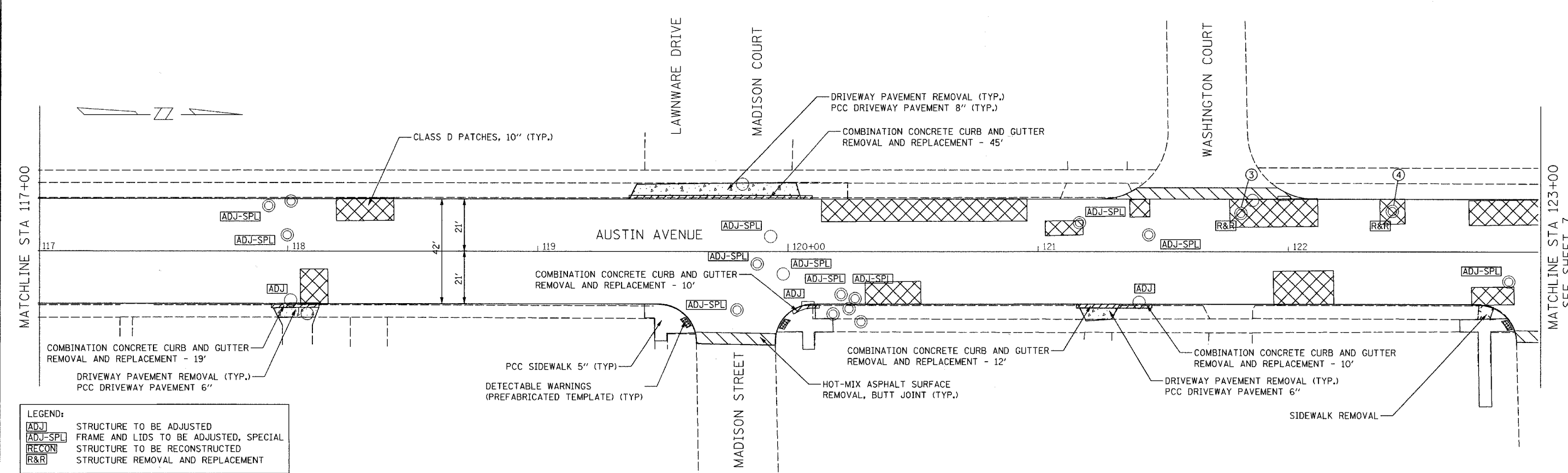
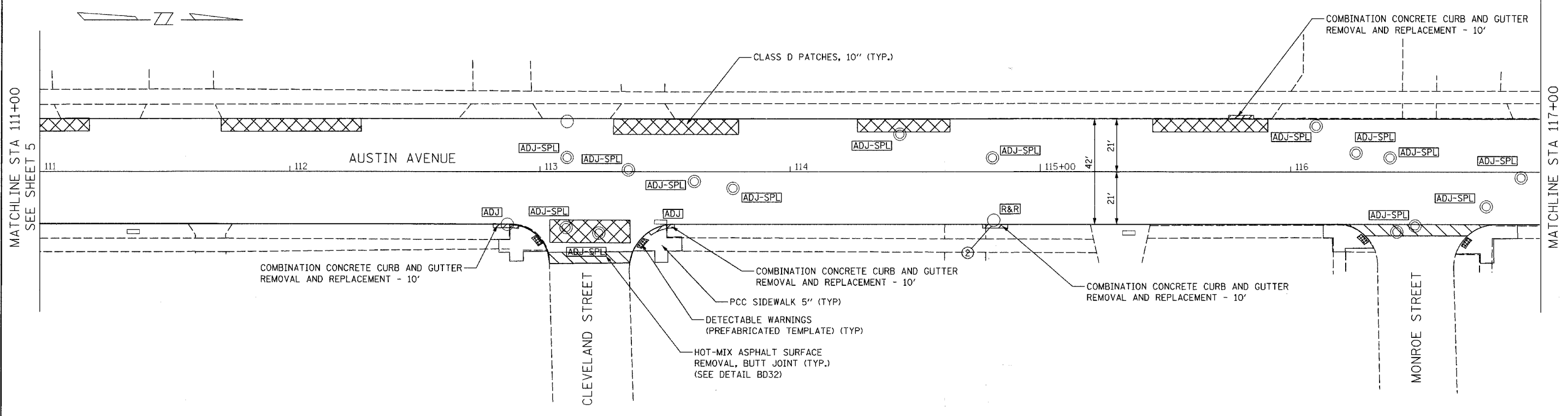
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE PROPOSED PLAN**

SCALE: 1"=20'    SHEET NO.    OF    SHEETS    STA. 100+00 TO STA. 111+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	5
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

- ② STA 114+82 20' RT CATCH BASIN TY. A, 4' DIA. TYPE 1 FRAME, OPEN LID
- ③ STA 121+83 13' LT MANHOLE TY. A, 4' DIA. TYPE 1 FRAME, CLOSED LID
- ④ STA 122+44 16' LT MANHOLE TY. A, 4' DIA. TYPE 1 FRAME, CLOSED LID



**LEGEND:**  
 [ADJ] STRUCTURE TO BE ADJUSTED  
 [ADJ-SPL] FRAME AND LIDS TO BE ADJUSTED, SPECIAL  
 [RECON] STRUCTURE TO BE RECONSTRUCTED  
 [R&R] STRUCTURE REMOVAL AND REPLACEMENT

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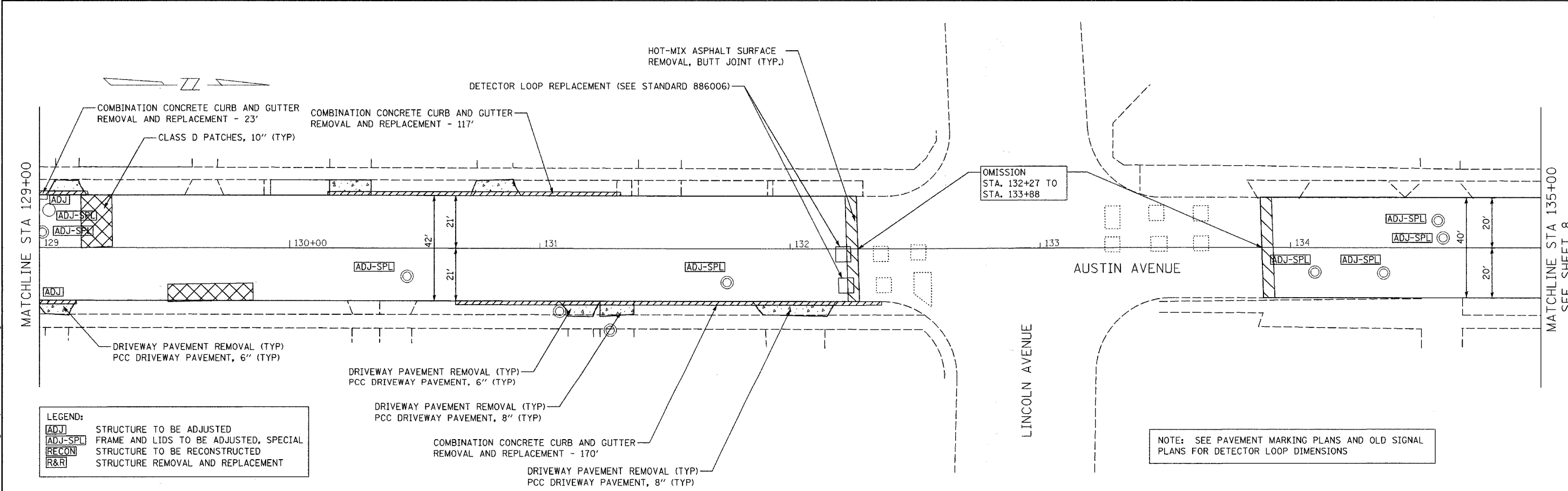
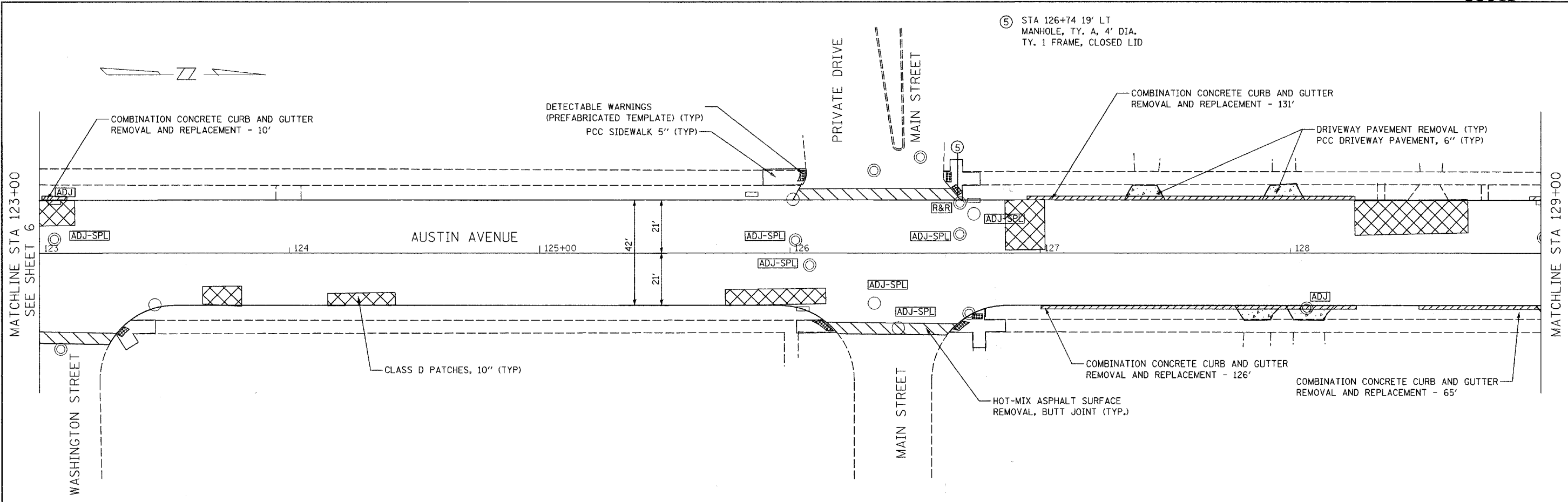
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DRAWN - EPS	REVISED -	
CHECKED - MRJ	REVISED -	
DATE March 2008	REVISED -	
PLOT DATE = 3/21/2008		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE PROPOSED PLAN**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 111+00 TO STA. 123+00

F.A. RTE. 2791	SECTION 07-00101-00-RS	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 6
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND:**

ADJ	STRUCTURE TO BE ADJUSTED
ADJ-SPL	FRAME AND LIDS TO BE ADJUSTED, SPECIAL
RECON	STRUCTURE TO BE RECONSTRUCTED
R&R	STRUCTURE REMOVAL AND REPLACEMENT

NOTE: SEE PAVEMENT MARKING PLANS AND OLD SIGNAL PLANS FOR DETECTOR LOOP DIMENSIONS

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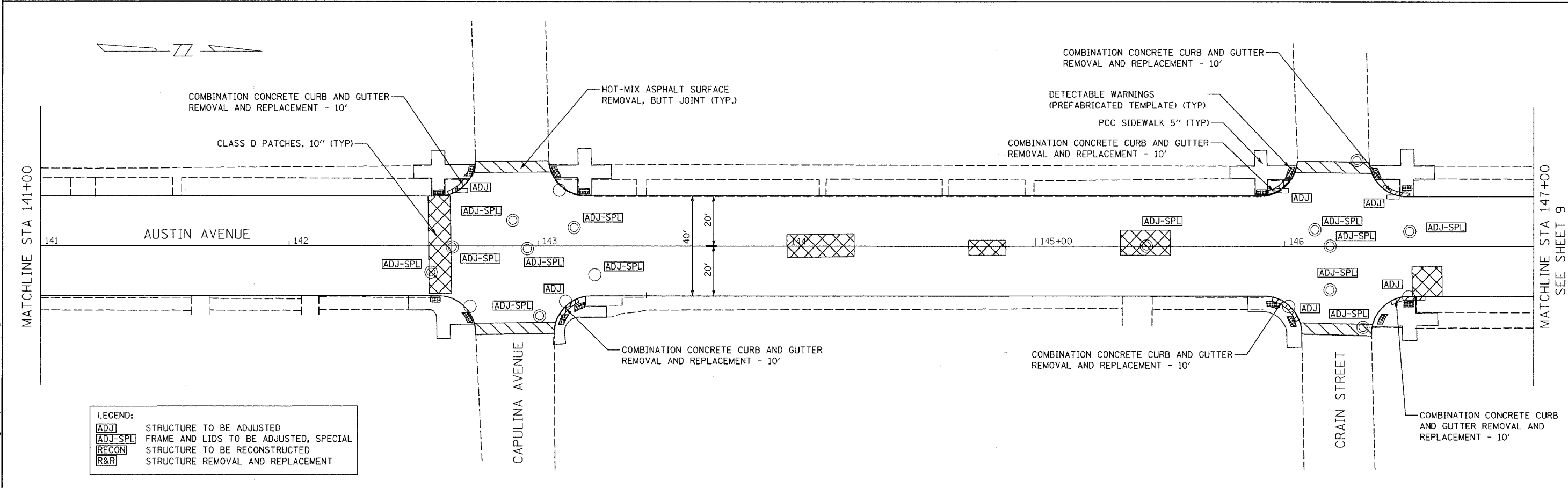
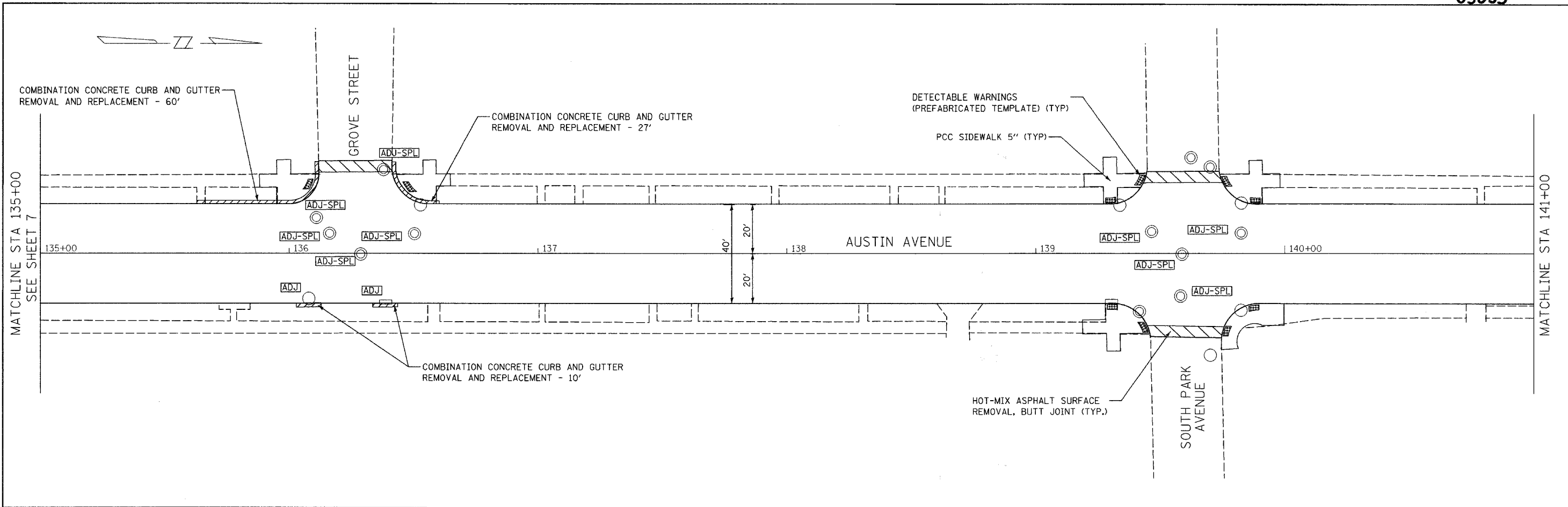
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PLOT DATE = 3/21/2008	CHECKED - MRJ	REVISED -
	DATE March 2008	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE PROPOSED PLAN**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 123+00 TO STA. 135+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	7
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND:**  
 [ADJ] STRUCTURE TO BE ADJUSTED  
 [ADJ-SPL] FRAME AND LIDS TO BE ADJUSTED, SPECIAL  
 [RECON] STRUCTURE TO BE RECONSTRUCTED  
 [R&R] STRUCTURE REMOVAL AND REPLACEMENT

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PLOT DATE = 3/21/2008	CHECKED - MRJ	REVISED -
	DATE March 2008	REVISED -

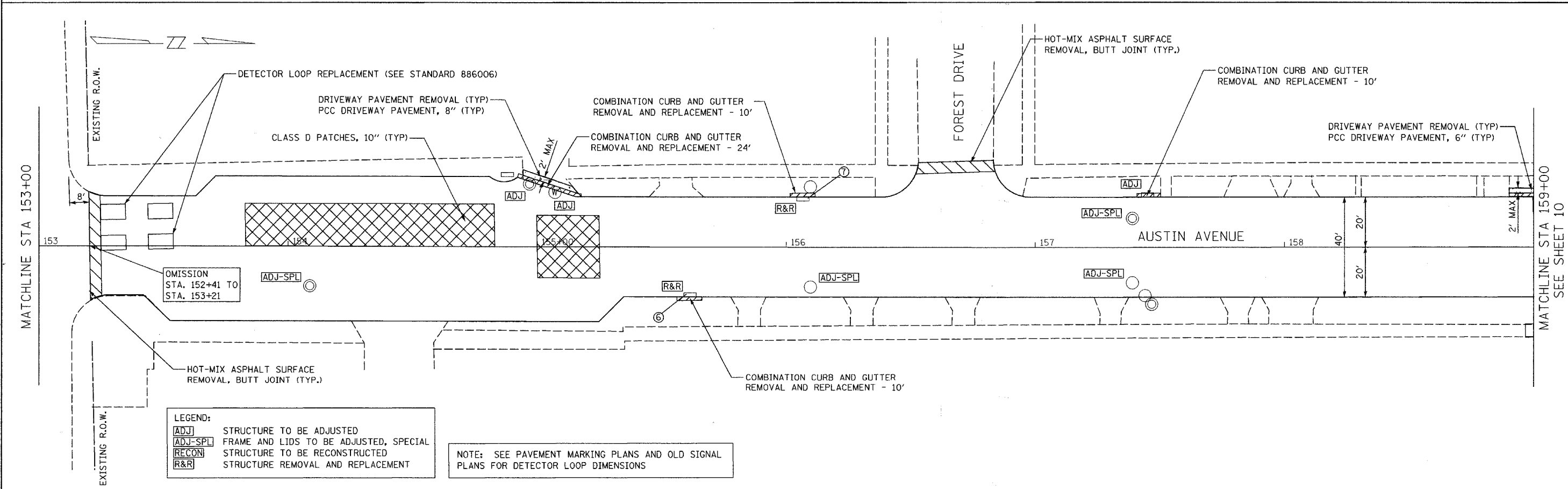
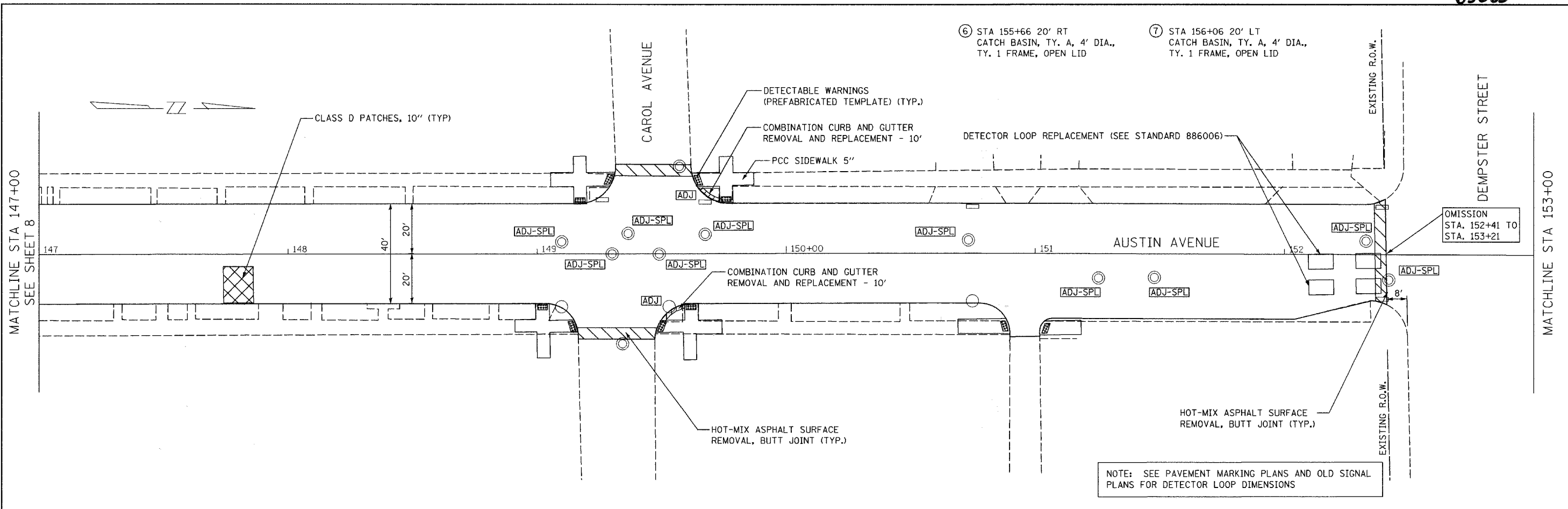
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVE PROPOSED PLAN**

SCALE: 1"=20'      SHEET NO. OF SHEETS      STA. 135+00 TO STA. 147+00

F.A. RTE. 2791	SECTION 07-00101-00-RS	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 8
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**LEGEND:**  
**ADJ** STRUCTURE TO BE ADJUSTED  
**ADJ-SPL** FRAME AND LIDS TO BE ADJUSTED, SPECIAL  
**RECON** STRUCTURE TO BE RECONSTRUCTED  
**R&R** STRUCTURE REMOVAL AND REPLACEMENT

NOTE: SEE PAVEMENT MARKING PLANS AND OLD SIGNAL PLANS FOR DETECTOR LOOP DIMENSIONS

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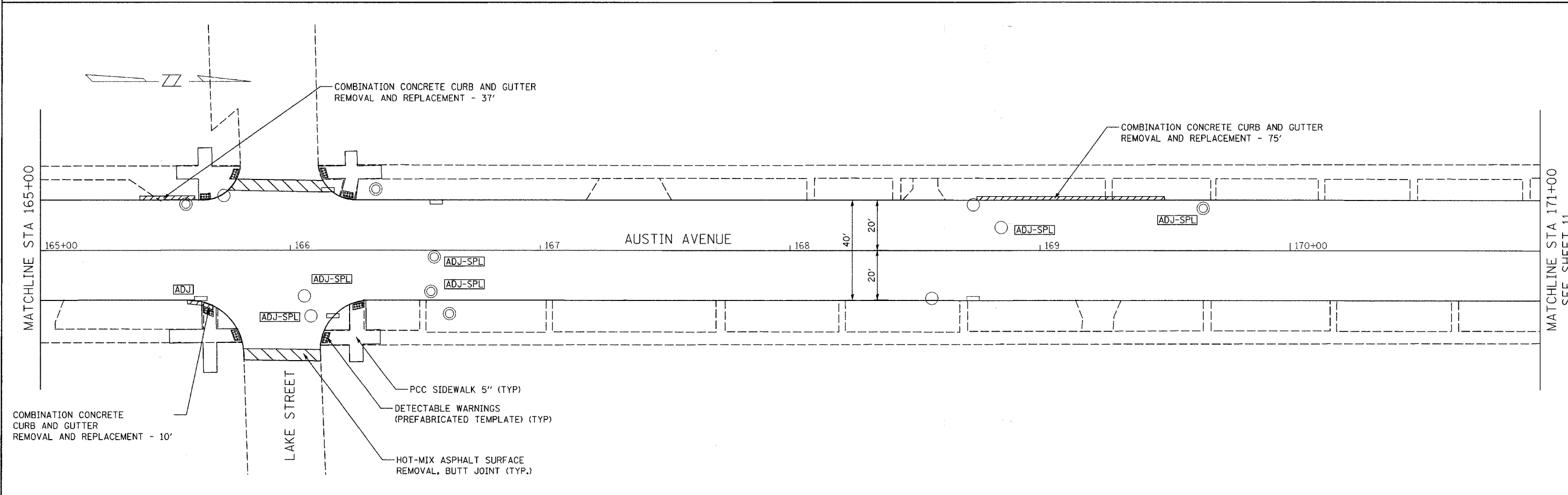
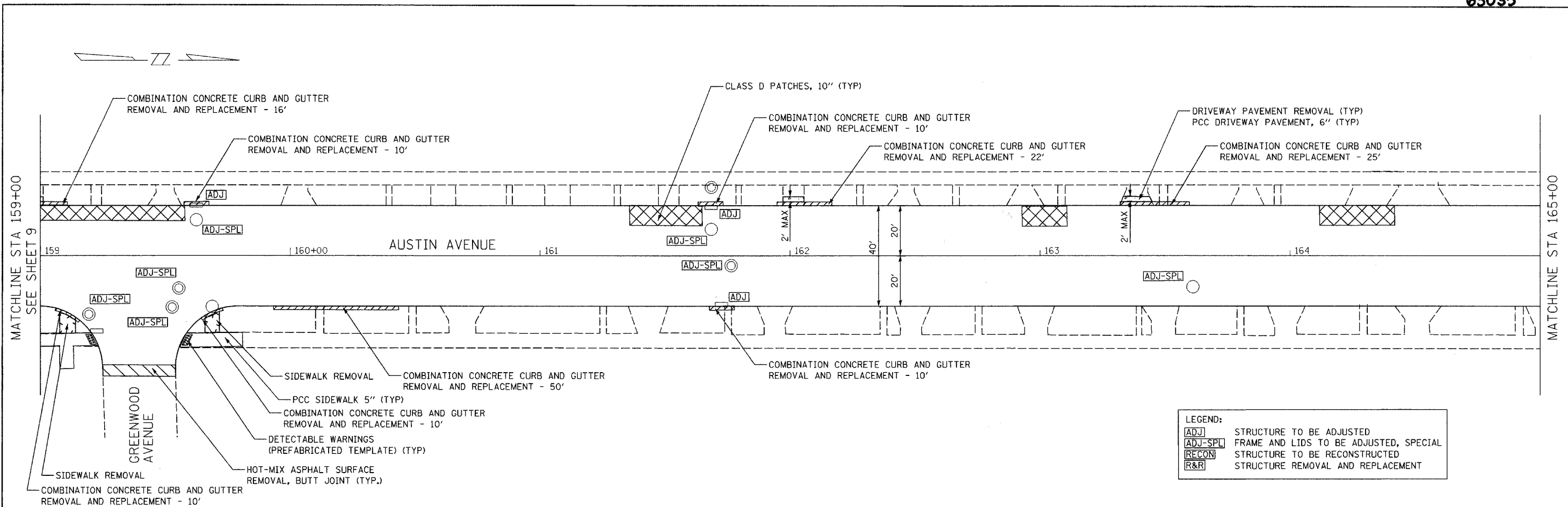
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	DATE March 2008	REVISED -

**STATE OF ILLINOIS  
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<b>AUSTIN AVENUE PROPOSED PLAN</b>	
SCALE: 1"=20'	SHEET NO. OF SHEETS STA. 147+00 TO STA. 159+00

F.A. RTE. 2791	SECTION 07-00101-00-RS	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 9
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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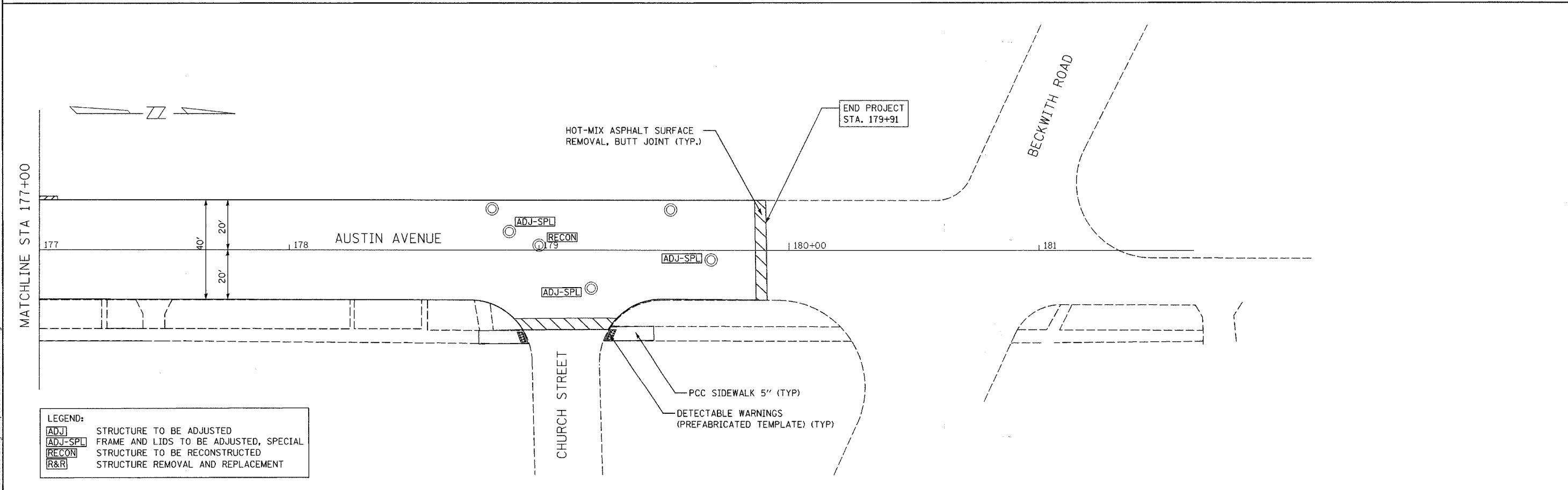
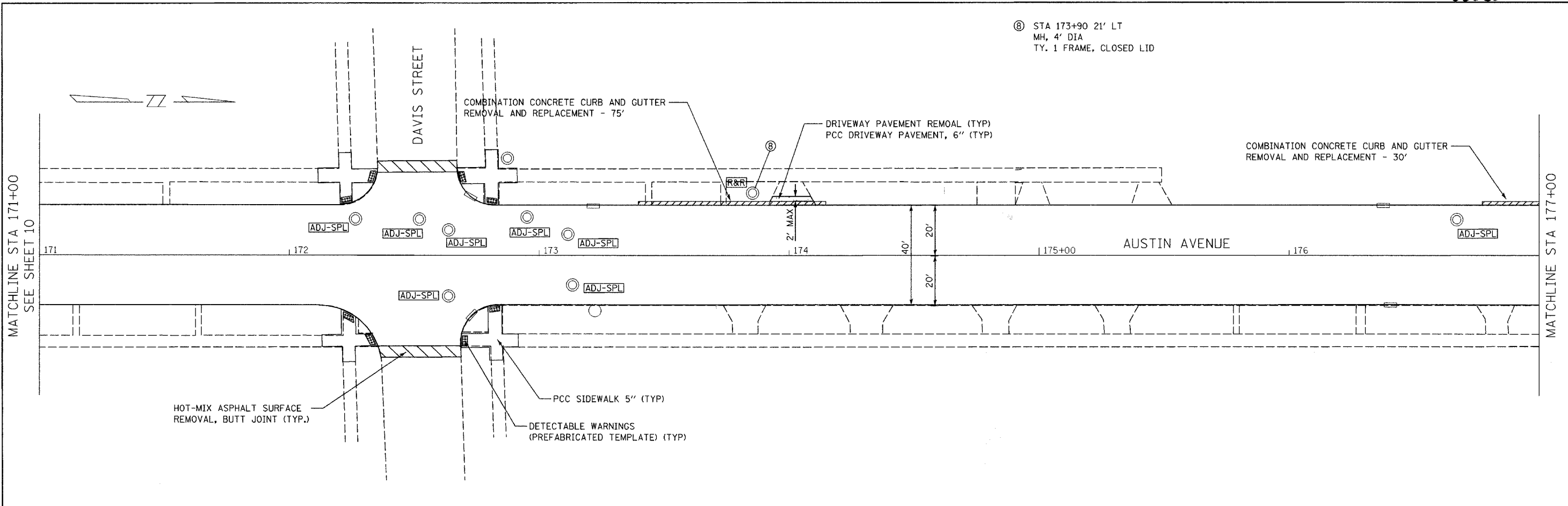
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PLOT DATE = 3/21/2008	CHECKED - MRJ	REVISED -
	DATE March 2008	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>AUSTIN AVENUE PROPOSED PLAN</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. 159+00 TO STA. 171+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	10
CONTRACT NO. 63035			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	



**LEGEND:**

ADJ	STRUCTURE TO BE ADJUSTED
ADJ-SPL	FRAME AND LIDS TO BE ADJUSTED, SPECIAL
RECON	STRUCTURE TO BE RECONSTRUCTED
R&R	STRUCTURE REMOVAL AND REPLACEMENT

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	DATE March 2008	REVISED -

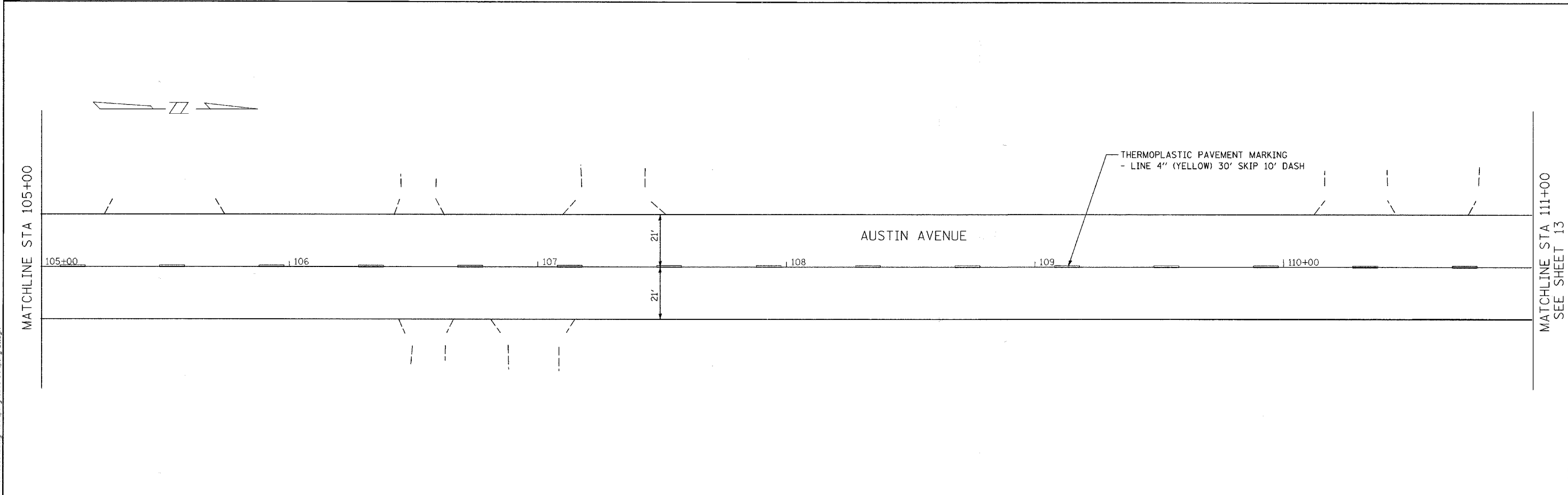
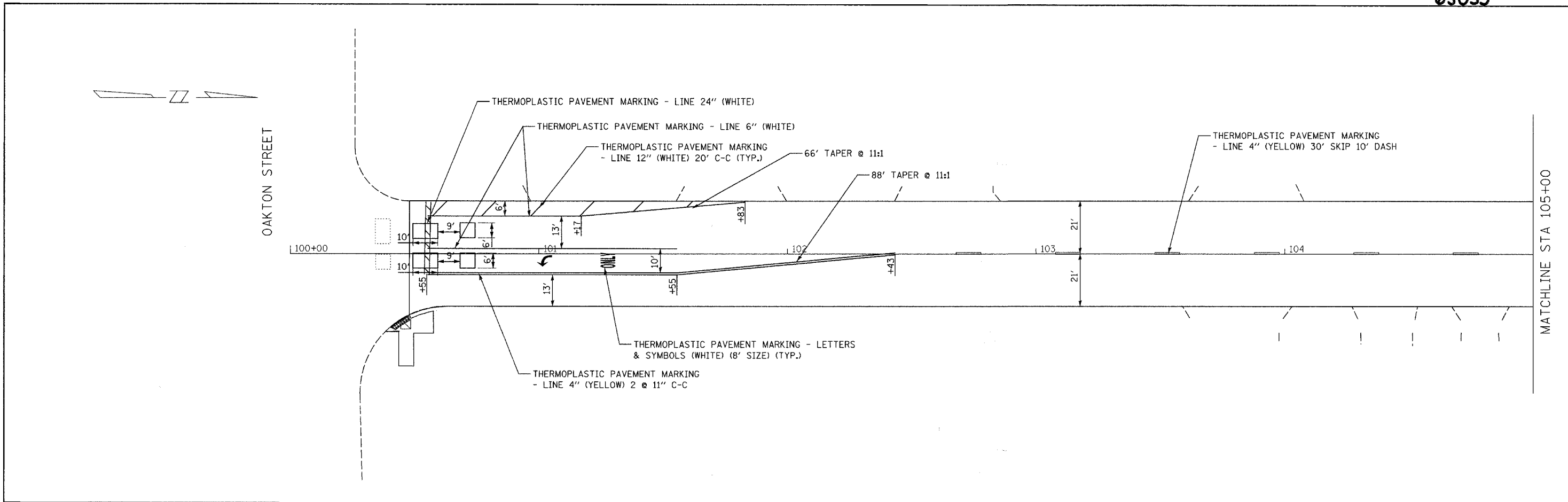
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE PROPOSED PLAN**

SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. 171+00 TO STA. 181+61.96
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F.A. RTE. 2791	SECTION 07-00101-00-RS	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 11
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

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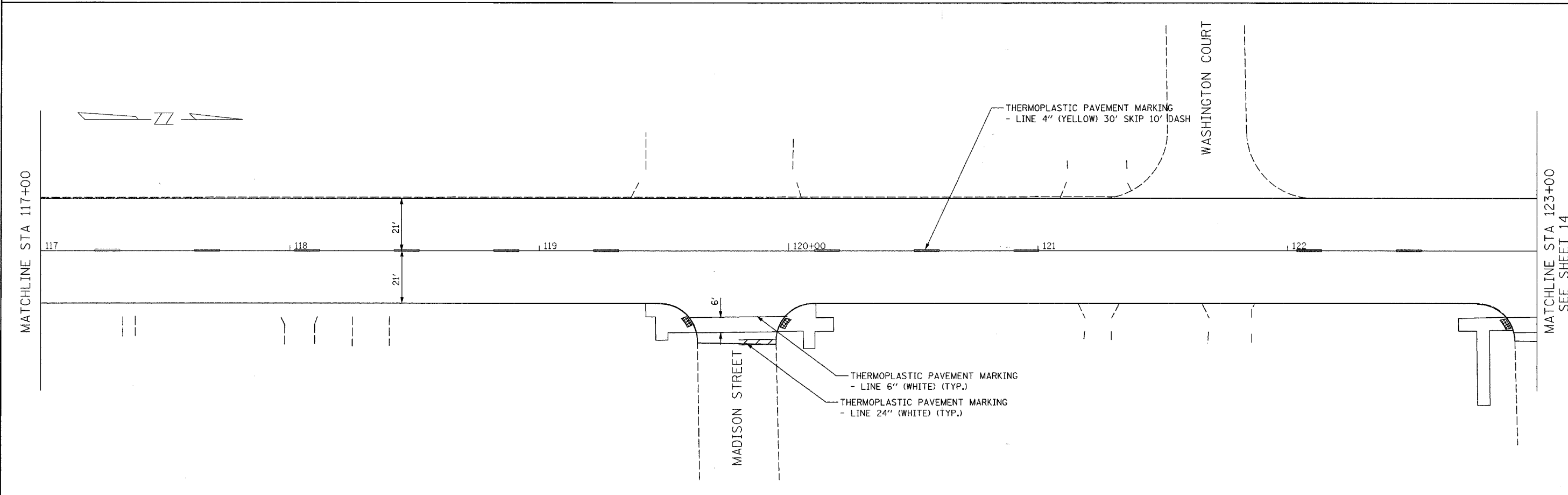
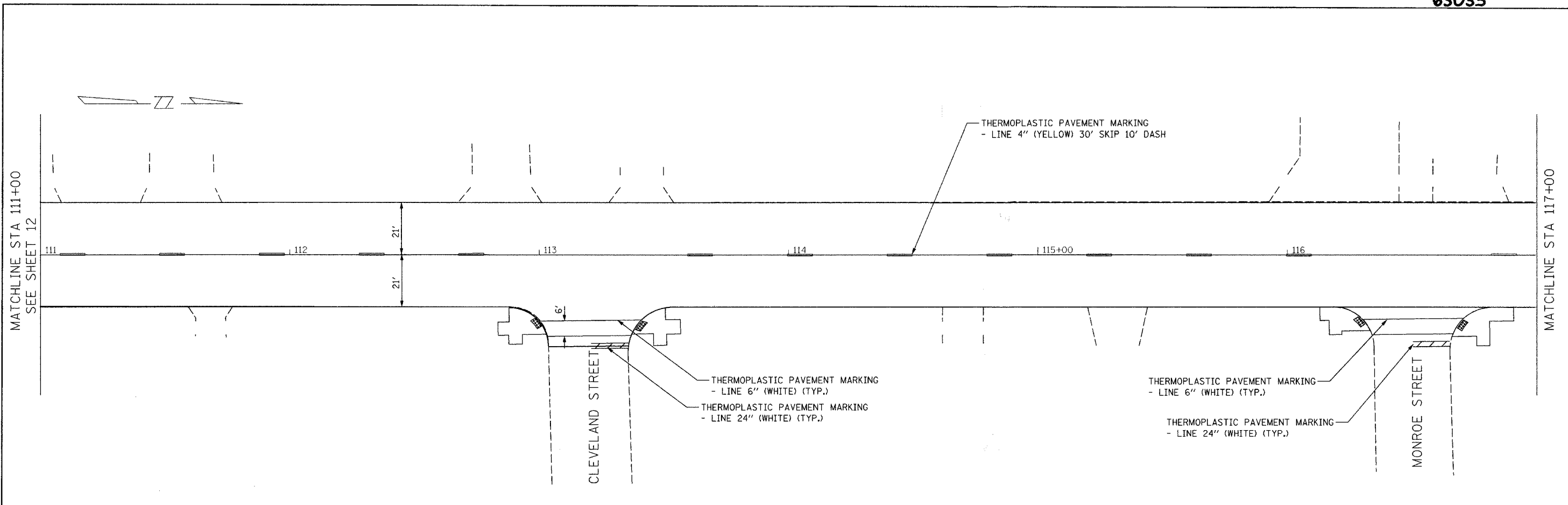
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PLOT DATE = 3/21/2008	DATE March 2008	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE PAVEMENT MARKING PLANS**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 100+00 TO STA. 111+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	12
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63035	



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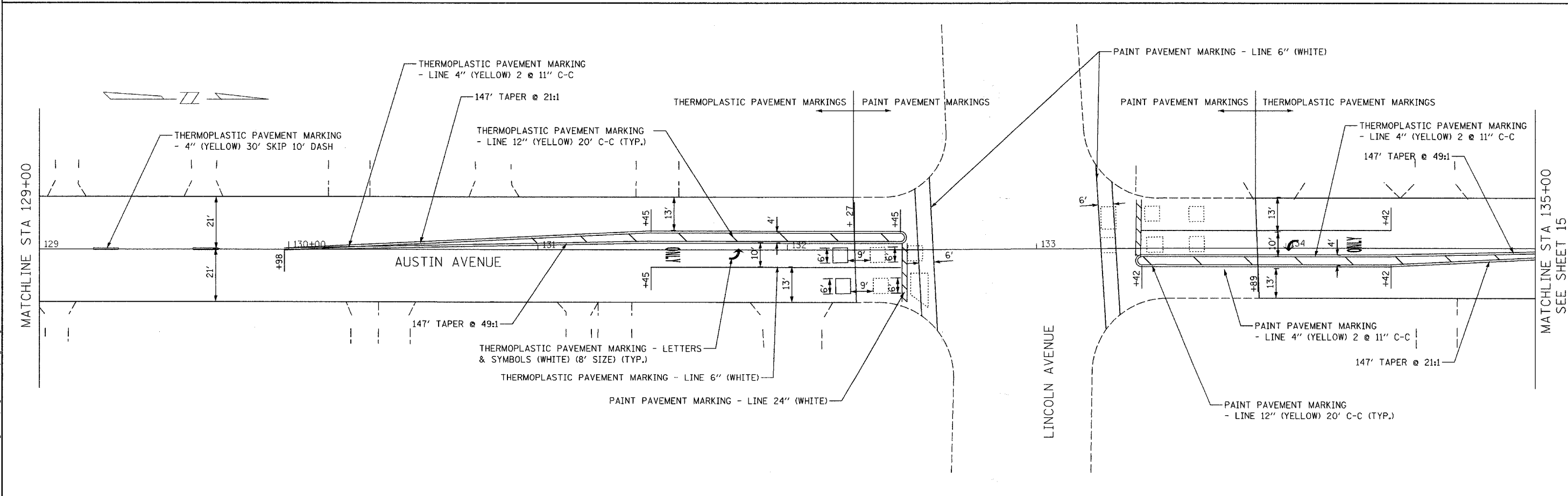
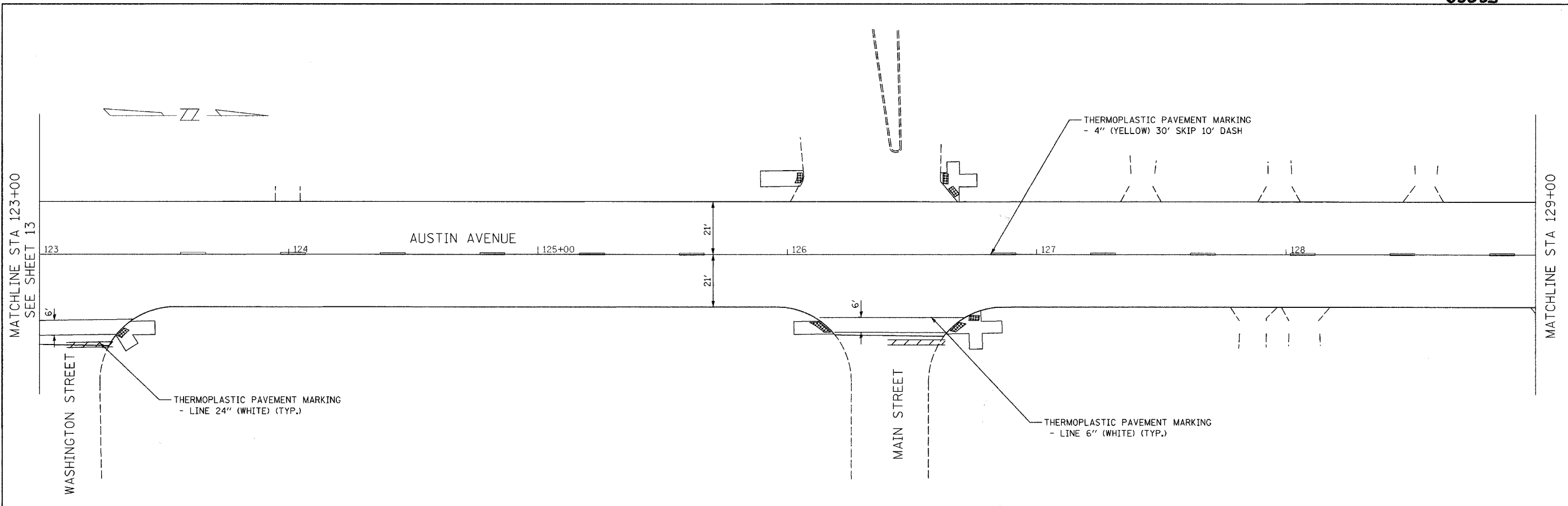
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PLOT DATE = 3/21/2008	CHECKED - MRJ	REVISED -
	DATE March 2008	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE PAVEMENT MARKING PLANS**

SCALE: 1"=20'      SHEET NO. OF SHEETS      STA. 111+00 TO STA. 123+00

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	13
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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	DATE March 2008	REVISED -

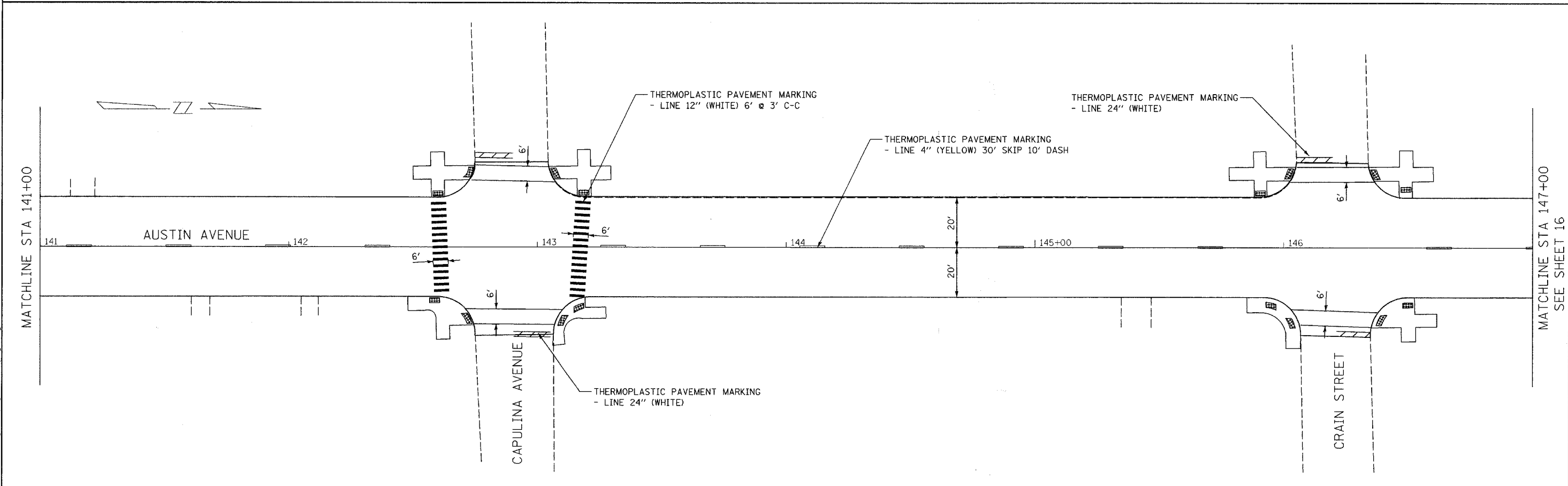
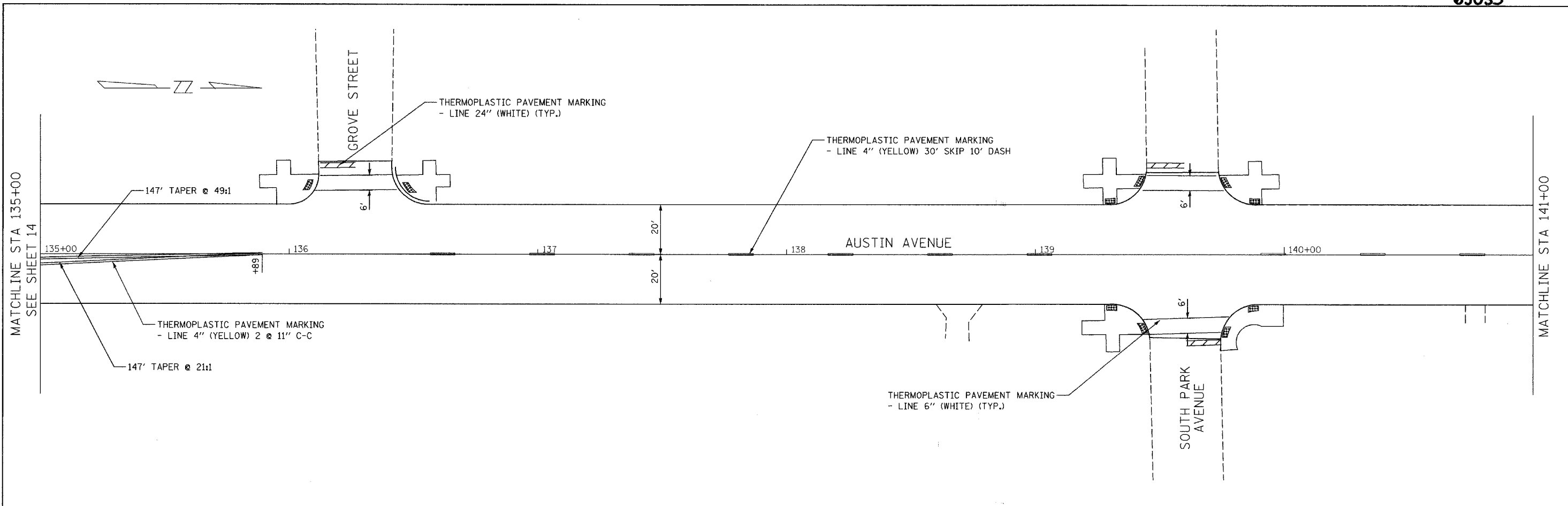
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE PAVEMENT MARKING PLANS**

SCALE: 1"=20'

SHEET NO.	OF SHEETS	STA. 123+00 TO STA. 135+00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	14
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63035				



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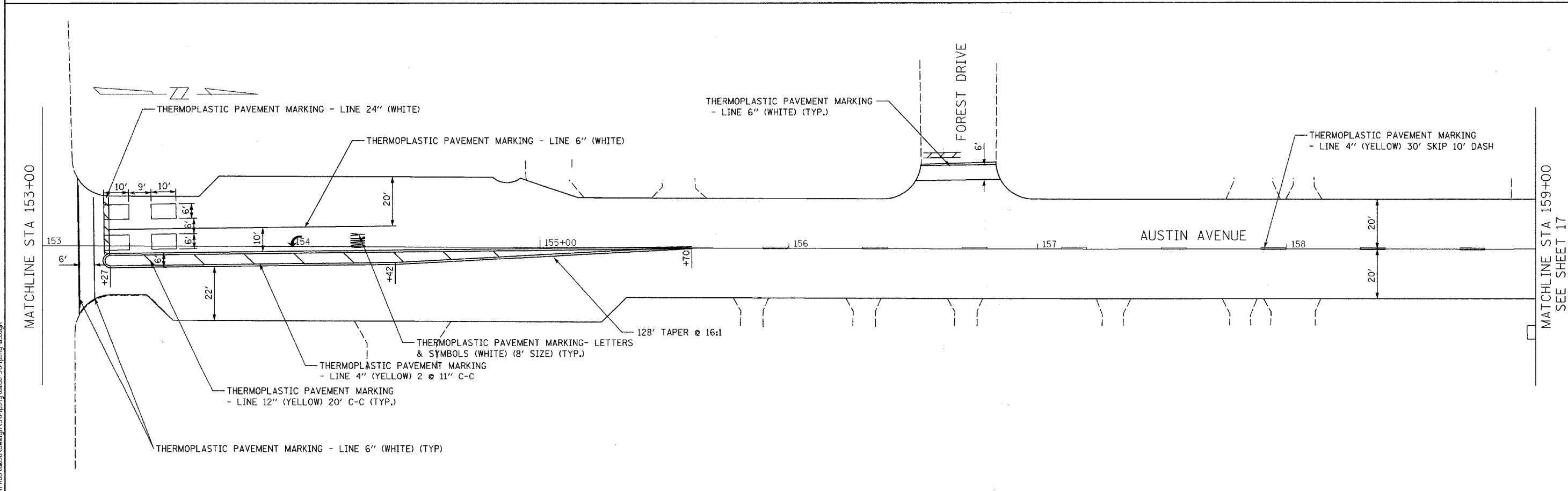
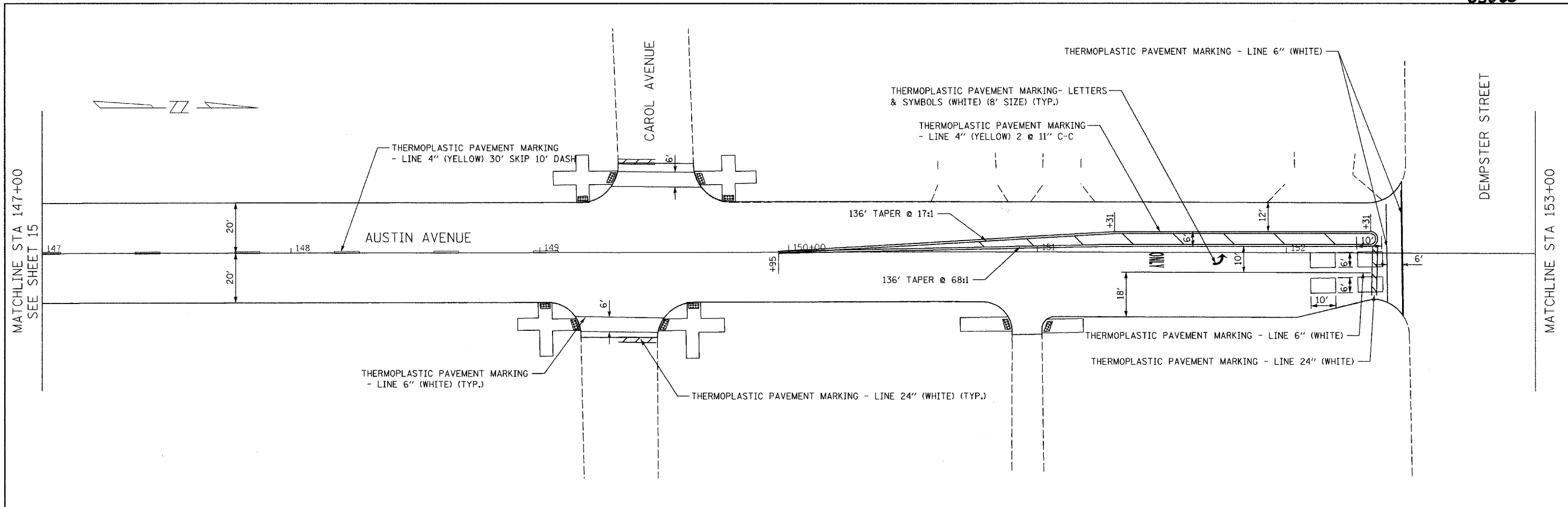
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PLOT SCALE =	DRAWN - EPS	REVISED -
PLOT DATE = 3/21/2008	CHECKED - MRJ	REVISED -
	DATE March 2008	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>AUSTIN AVE PAVEMENT MARKING PLANS</b>		
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. 135+00 TO STA. 147+00

F.A. RTE. 2791	SECTION 07-00101-00-RS	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 15
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



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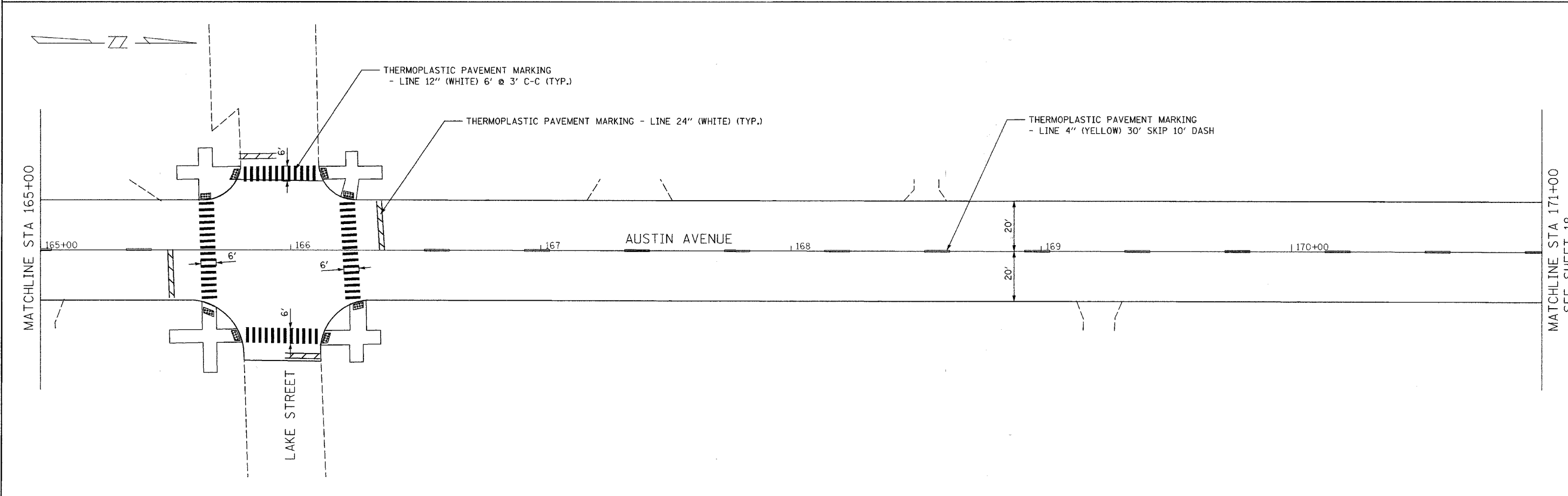
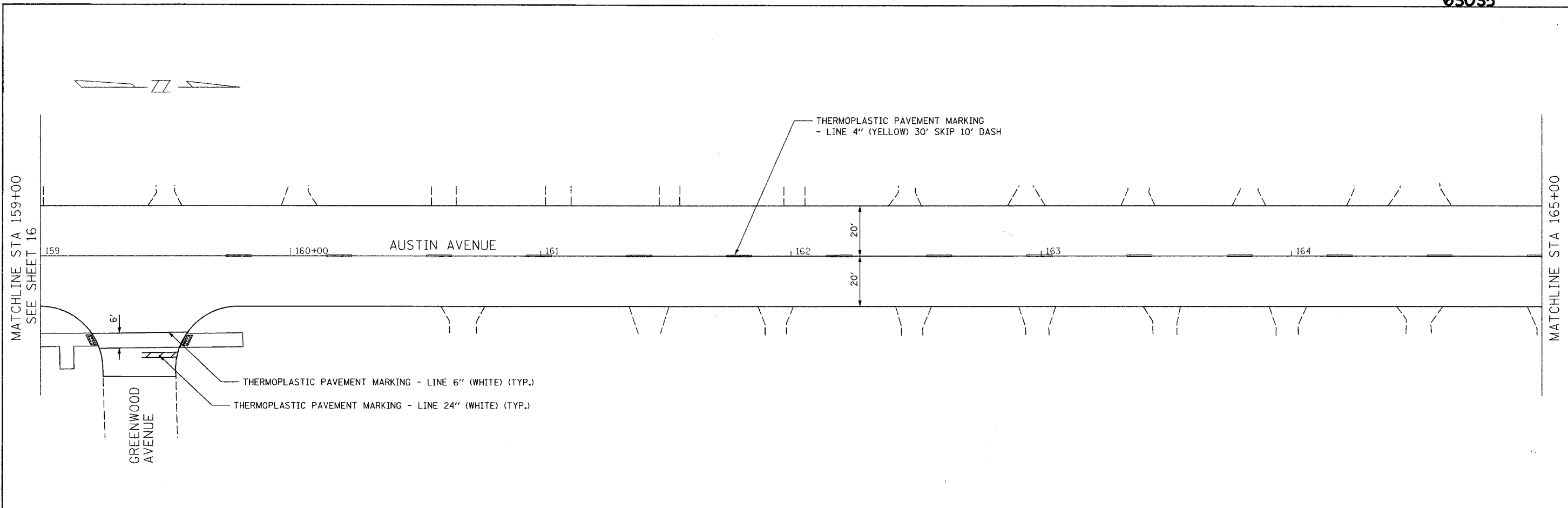
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	DATE March 2008	REVISED -

**STATE OF ILLINOIS  
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<b>AUSTIN AVENUE PAVEMENT MARKING PLANS</b>			
SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. 147+00 TO STA. 159+00

F.A. RTE. 2791	SECTION 07-00101-00-RS	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 16
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





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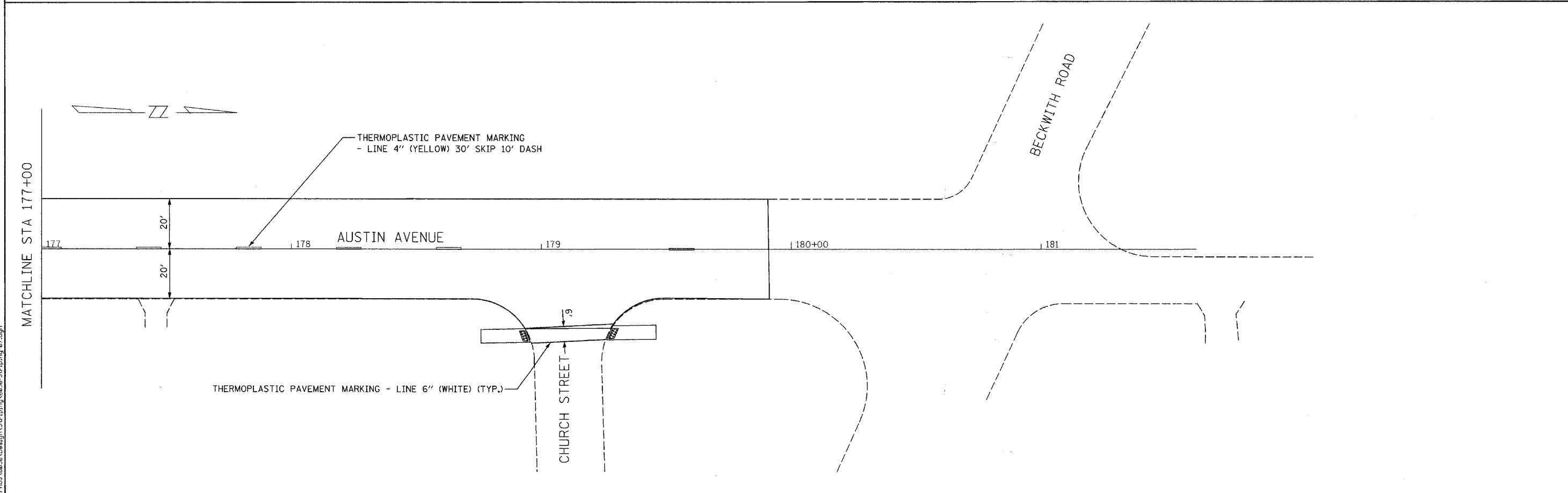
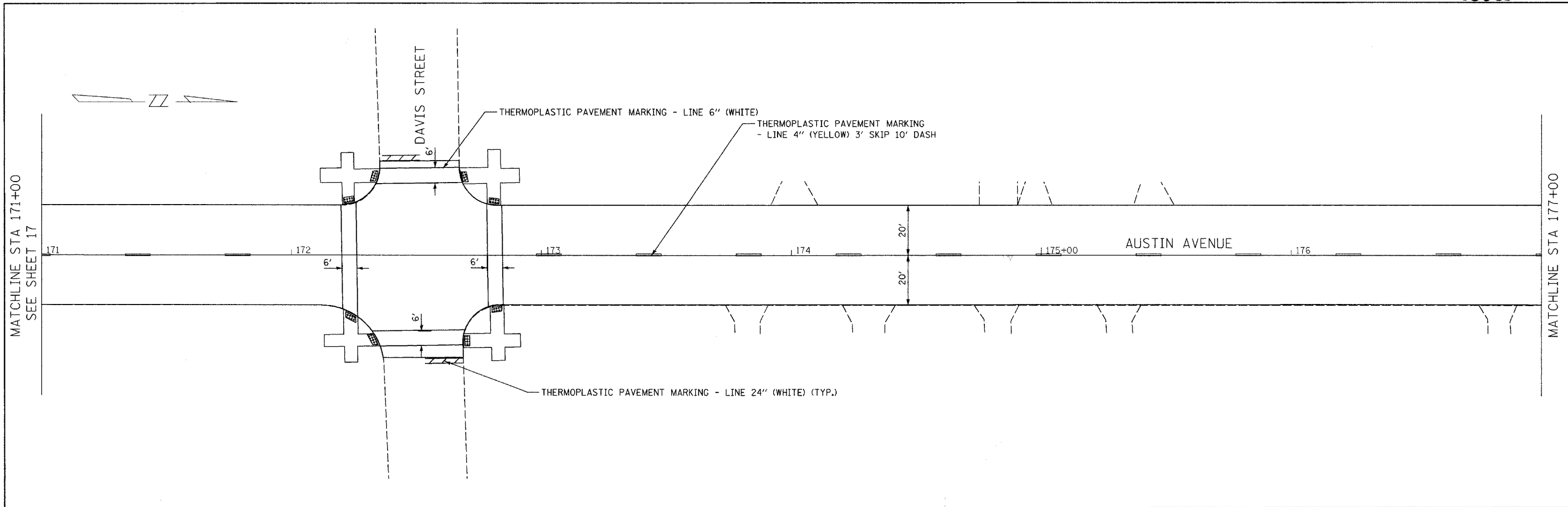
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PLOT DATE = 3/21/2008	CHECKED - MRJ	REVISED -
	DATE March 2008	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>AUSTIN AVENUE PAVEMENT MARKING PLANS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. 159+00 TO STA. 171+00

F.A.R.T.E. 2791	SECTION 07-00101-00-RS	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 17
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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PLOT DATE = 3/21/2008	CHECKED - MRJ	REVISED -
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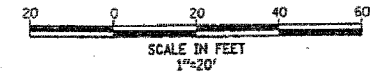
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE PAVEMENT MARKING PLANS**

SCALE: 1"=20'      SHEET NO.    OF    SHEETS    STA.    171+00    TO    STA.    181+61.96

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	18
CONTRACT NO. 63035				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

F.A.U. R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

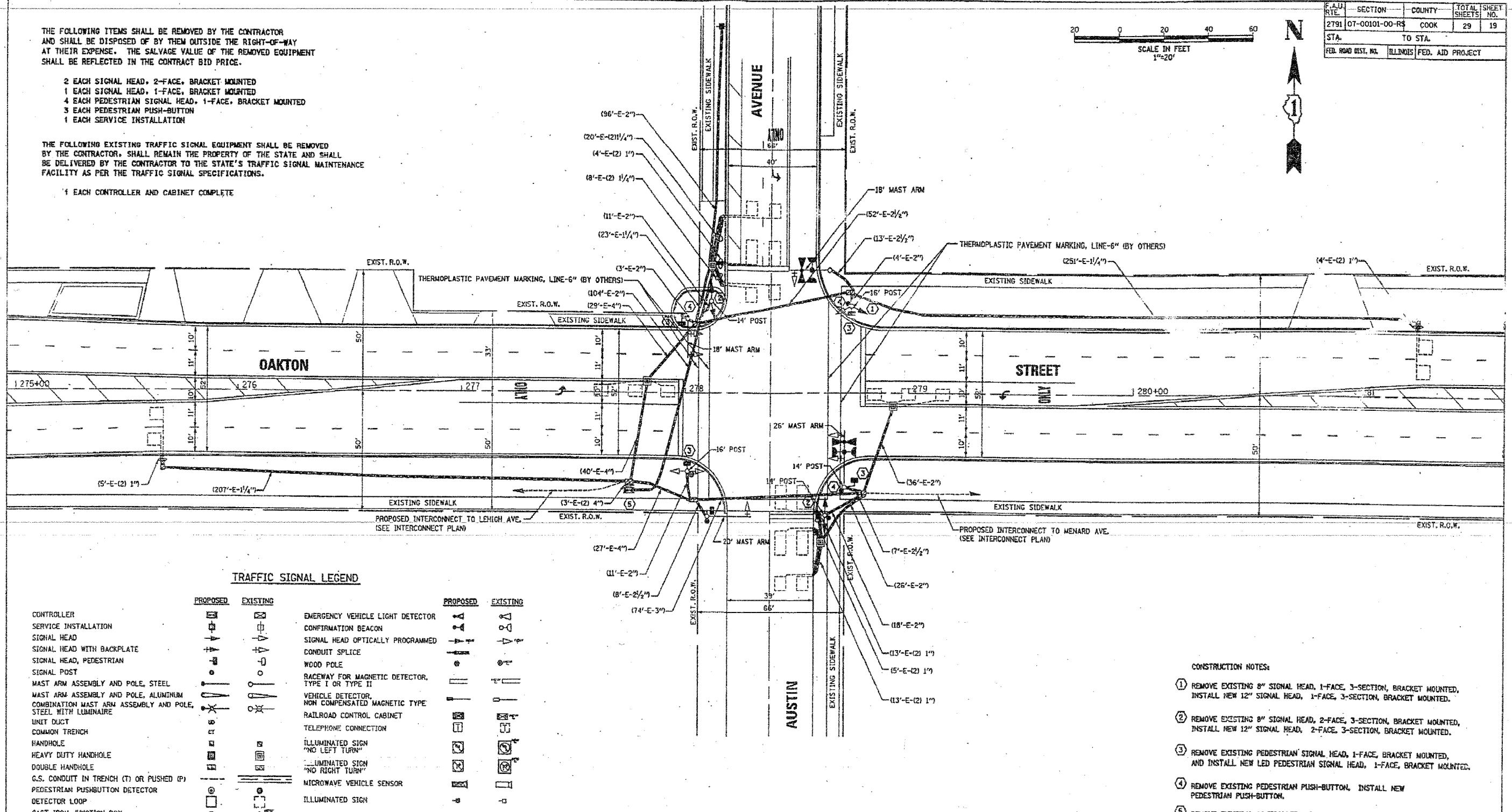


THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH SIGNAL HEAD, 2-FACE, BRACKET MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- 3 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET COMPLETE



**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER			EMERGENCY VEHICLE LIGHT DETECTOR		
SERVICE INSTALLATION			CONFIRMATION BEACON		
SIGNAL HEAD			SIGNAL HEAD OPTICALLY PROGRAMMED		
SIGNAL HEAD WITH BACKPLATE			CONDUIT SPLICE		
SIGNAL HEAD, PEDESTRIAN			WOOD POLE		
SIGNAL POST			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
MAST ARM ASSEMBLY AND POLE, STEEL			VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			RAILROAD CONTROL CABINET		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE			TELEPHONE CONNECTION		
UNIT DUCT			ILLUMINATED SIGN "NO LEFT TURN"		
COMMON TRENCH			ILLUMINATED SIGN "NO RIGHT TURN"		
HANDHOLE			MICROWAVE VEHICLE SENSOR		
HEAVY DUTY HANDHOLE			ILLUMINATED SIGN		
DOUBLE HANDHOLE					
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)					
PEDESTRIAN PUSHBUTTON DETECTOR					
DETECTOR LOOP					
CAST IRON JUNCTION BOX					

**CONSTRUCTION NOTES:**

- 1 REMOVE EXISTING 8" SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED, INSTALL NEW 12" SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED.
- 2 REMOVE EXISTING 8" SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED, INSTALL NEW 12" SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED.
- 3 REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED, AND INSTALL NEW LED PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED.
- 4 REMOVE EXISTING PEDESTRIAN PUSH-BUTTON, INSTALL NEW PEDESTRIAN PUSH-BUTTON.
- 5 REMOVE EXISTING CONTROLLER AND CABINET, INSTALL NEW CONTROLLER AND TYPE IV CABINET, RE-USE EXISTING FOUNDATION.
- 6 THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

FOR INFORMATION ONLY

**SETON ENGINEERING**  
CIVIL SERVICE CORPORATION  
 CIVIL ENGINEERS  
 19 S. BOWWELL STREET  
 PALATKA, ILLINOIS 60067  
 VOICES 847-716-7200 FAX 847-716-7239  
SETON PROJECT # 200401-000-001

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL  
 MODIFICATION AND  
 REMOVAL PLAN**  
 OAKTON STREET AT AUSTIN AVENUE  
 MORTON GROVE, ILLINOIS  
 SCALE: 1"=20'  
 DATE 09-20-2004  
 DRAWN BY BR  
 DESIGNED BY VO  
 CHECKED BY TJM

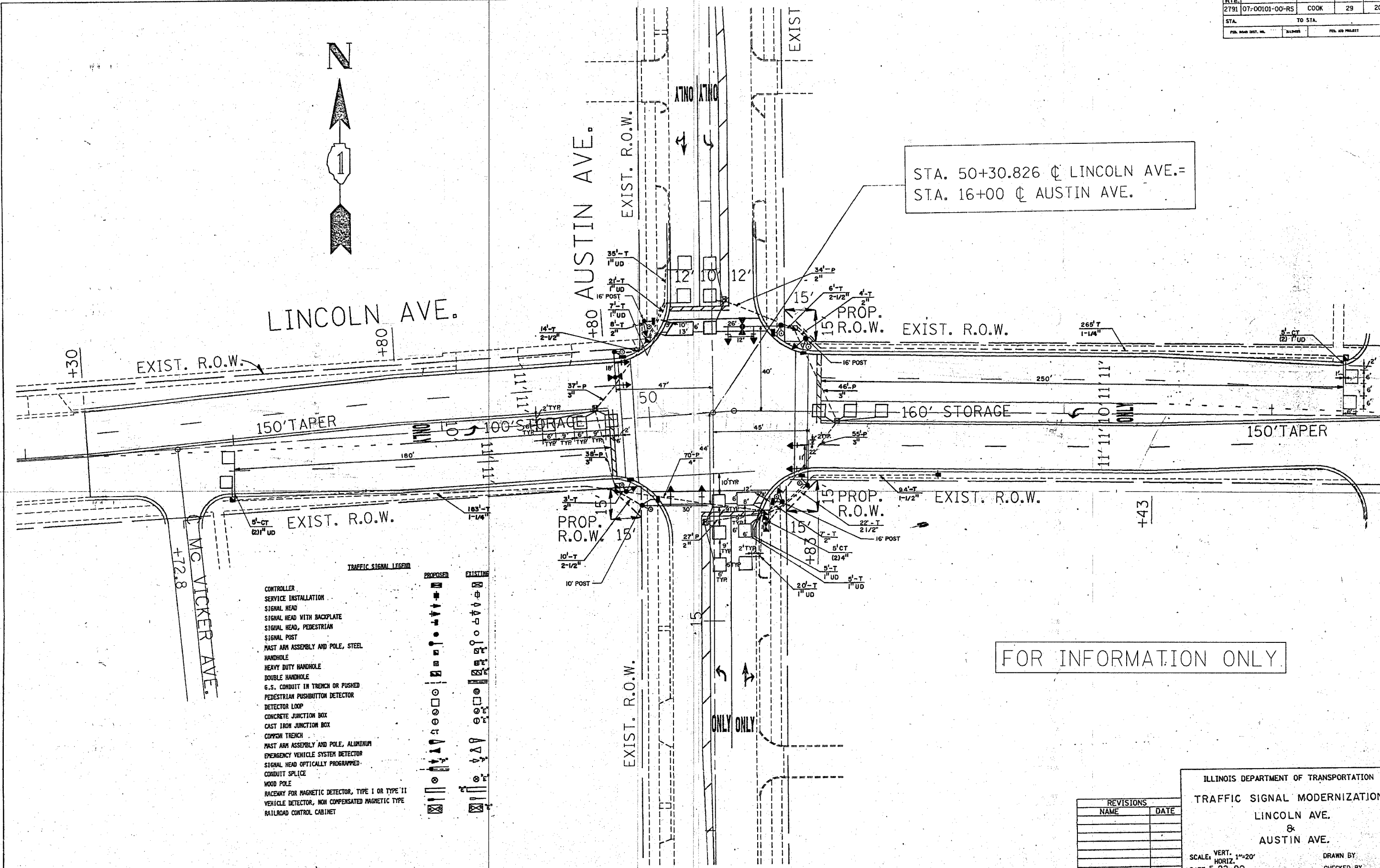
FALL R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	20
STA.		TO STA.		
FED. ROAD DIST. NO.		BALANCE		FED. AID PROJECT



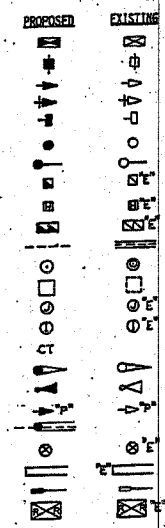
LINCOLN AVE.

+80 AUSTIN AVE.

STA. 50+30.826 @ LINCOLN AVE. =  
STA. 16+00 @ AUSTIN AVE.



- TRAFFIC SIGNAL LEGEND**
- CONTROLLER
  - SERVICE INSTALLATION
  - SIGNAL HEAD
  - SIGNAL HEAD WITH BACKPLATE
  - SIGNAL HEAD, PEDESTRIAN
  - SIGNAL POST
  - MAST ARM ASSEMBLY AND POLE, STEEL
  - HANDHOLE
  - HEAVY DUTY HANDHOLE
  - DOUBLE HANDHOLE
  - G.S. 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 DETECTOR
  - 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



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL MODERNIZATION**  
 LINCOLN AVE.  
 &  
 AUSTIN AVE.

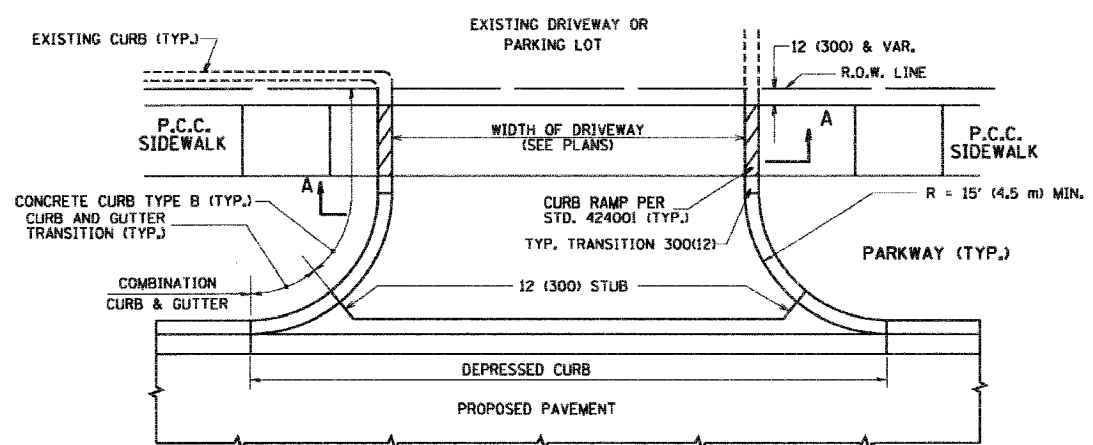
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 HORIZ. 1"=20'  
 DATE 5-22-90

DRAWN BY  
 CHECKED BY

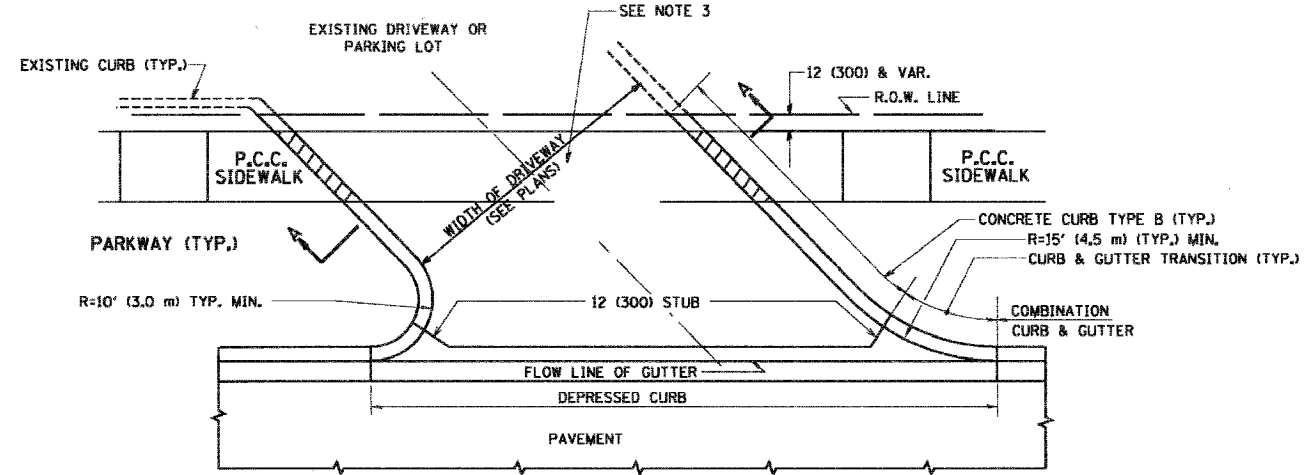
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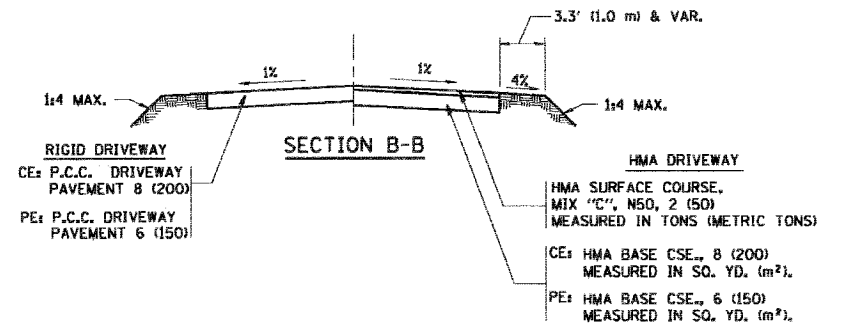
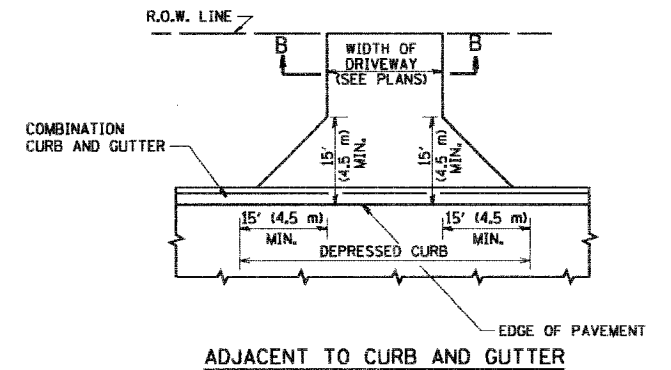
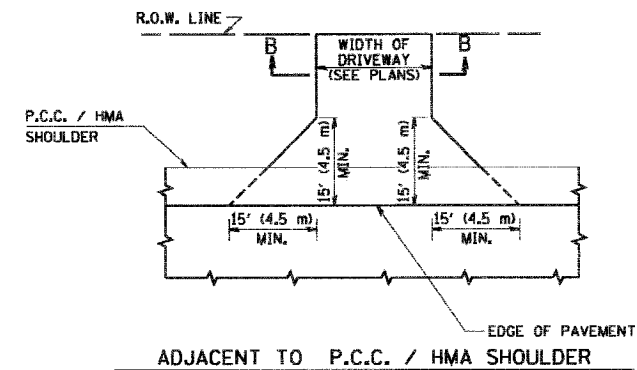
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	22
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)  
HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)  
AGGREGATE BASE CSE., TYPE A 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

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

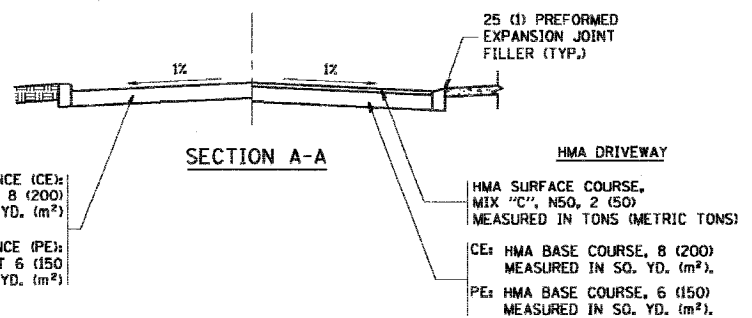
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

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

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

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



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

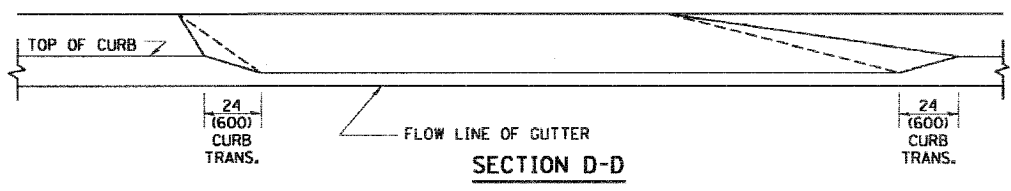
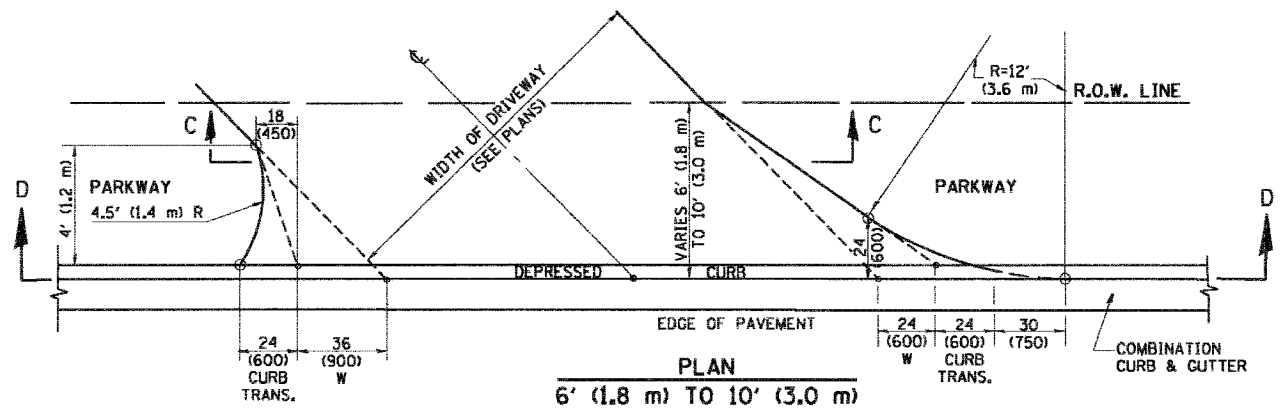
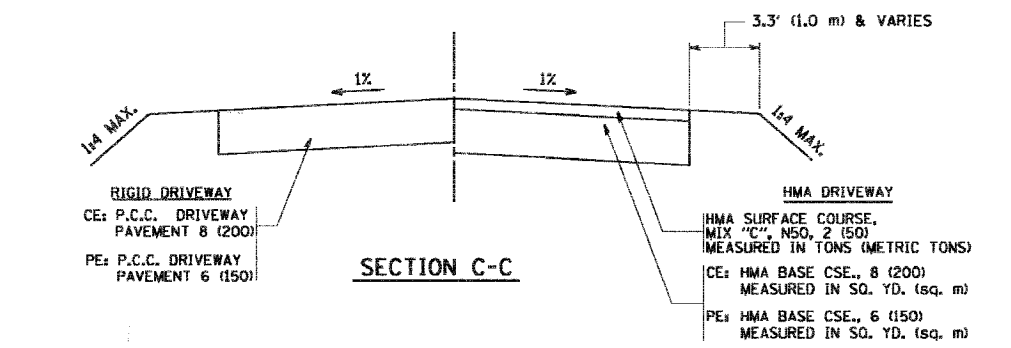
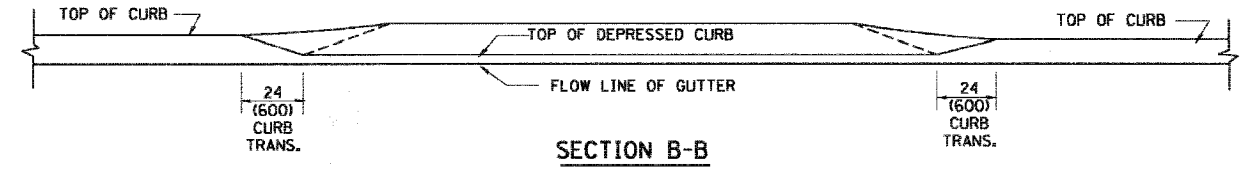
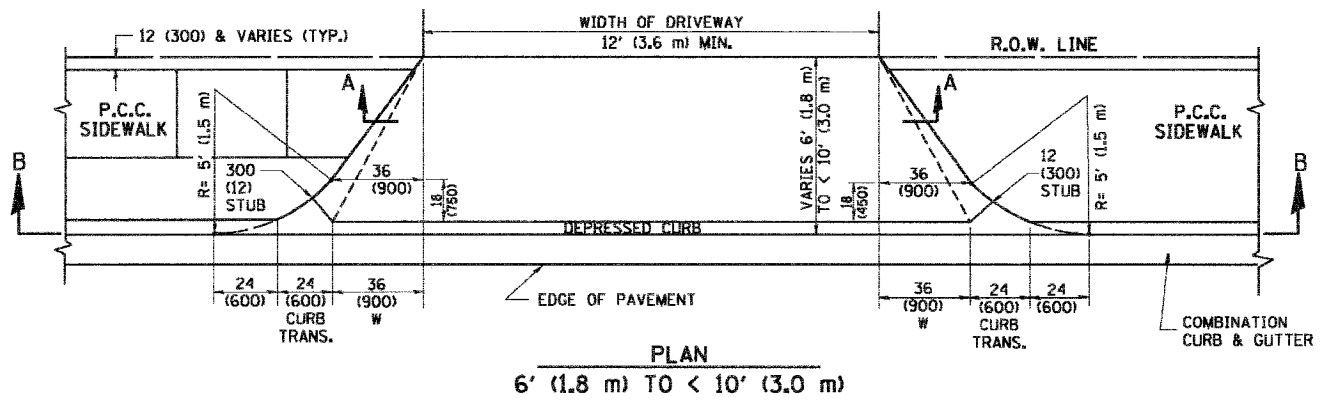
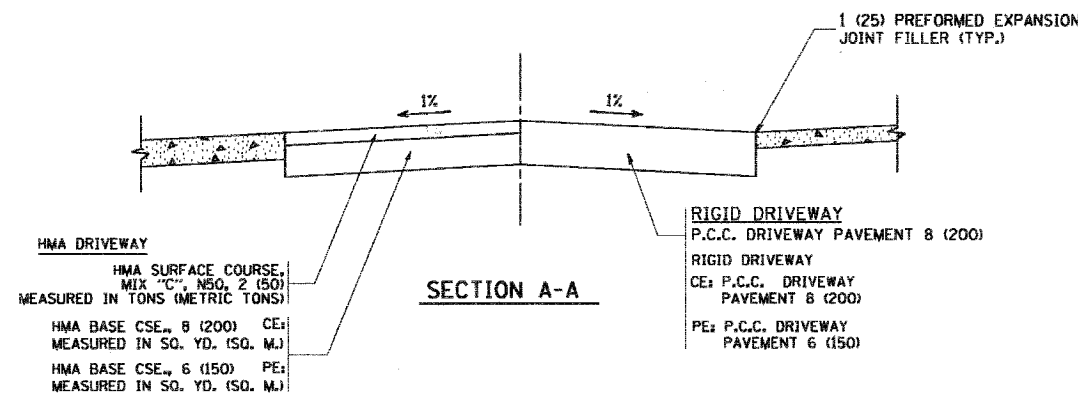
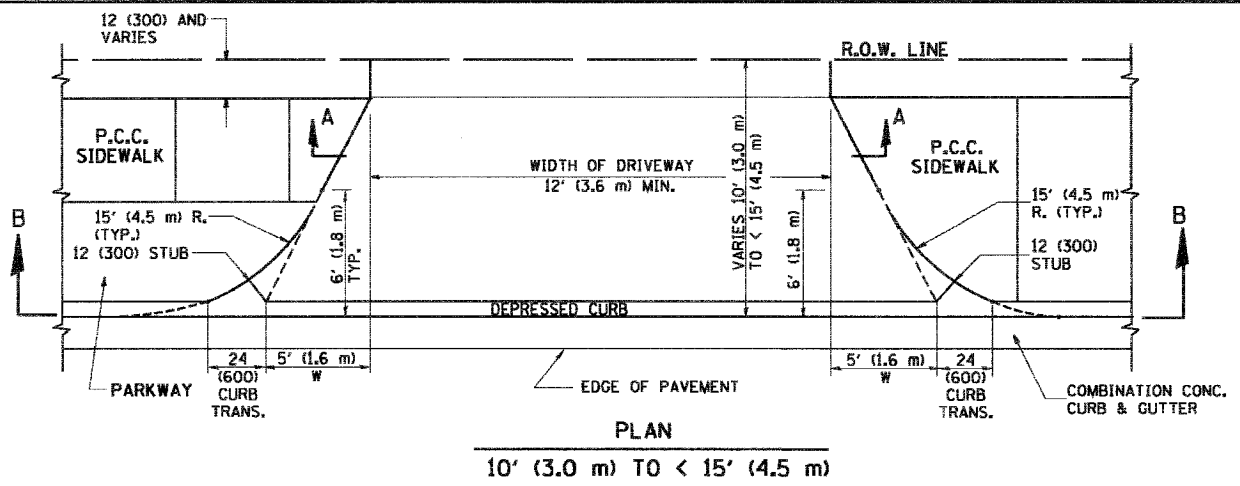
REVISIONS	
NAME	DATE
R. SHAH	11-04-95
J. POLLASTRINI	08-12-96
J. POLLASTRINI	12-14-96
A. ABBAS	03-21-97
T. HOLTZ	04-08-97
M. GOMEZ	04-06-01
P. LOFLEUR	04-15-03
R. BORO	01-01-07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DRIVEWAY DETAILS  
DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

SCALE: VERT. NONE  
HORIZ. DRAWN BY  
CHECKED BY

PLOT DATE = 4/11/2007  
FILE NAME = c:\p\mesa\11111111\11111111.dgn  
PLOT SCALE = 41/11111 / IN.  
USER NAME = drveloan

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	23
STA.	TO STA.			
FEB. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



**GENERAL NOTES**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

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

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

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

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

REVISIONS	
NAME	DATE
R. SHAH	11/06/95
J. POLLASTRINI	08/12/96
J. POLLASTRINI	12/14/96
A. ABBAS	03/21/97
T. HOLTZ	04/08/97
M. GOMEZ	04/06/03
P. LOFLEUR	04/15/03
R. BORO	01/01/07

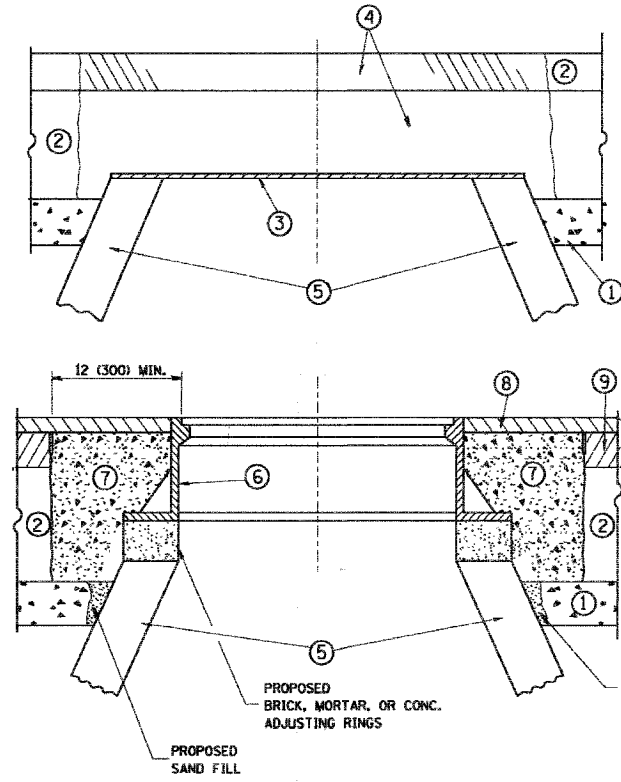
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DRIVEWAY DETAILS**  
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

SCALE: VERT. NONE  
HORIZ. DRAWN BY  
CHECKED BY

PLOT DATE = 3/15/2007  
FILE NAME = K:\projects\2007\200703\20070301\20070301.dwg  
PLOT SCALE = 0.80000000  
USER NAME = baward



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	24
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (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 S1 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 S1 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

REVISIONS	
NAME	DATE
R. SHAH	10/26/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABRAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

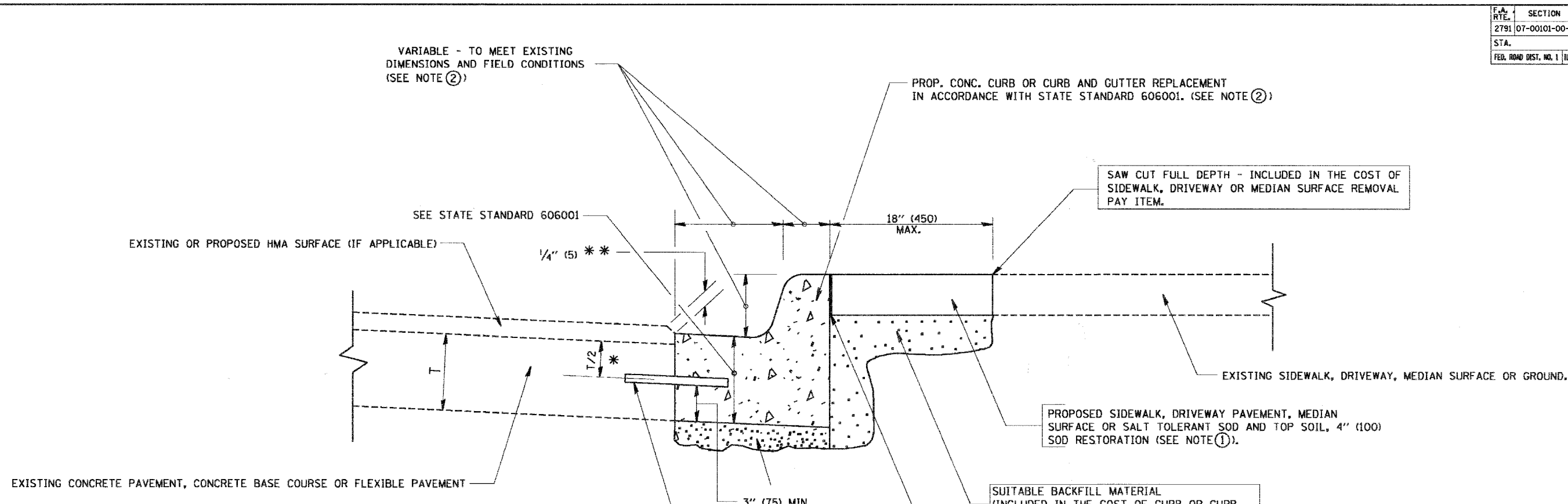
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: VERT. NONE  
 HORIZ. NONE  
 DRAWN BY  
 CHECKED BY  
 BD600-03 (BD-8)

PLOT DATE = 3/6/2007  
 FILE NAME = K:\distriv\bd600.dgn  
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 USER NAME = bshah



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	25
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

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

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

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

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

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

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

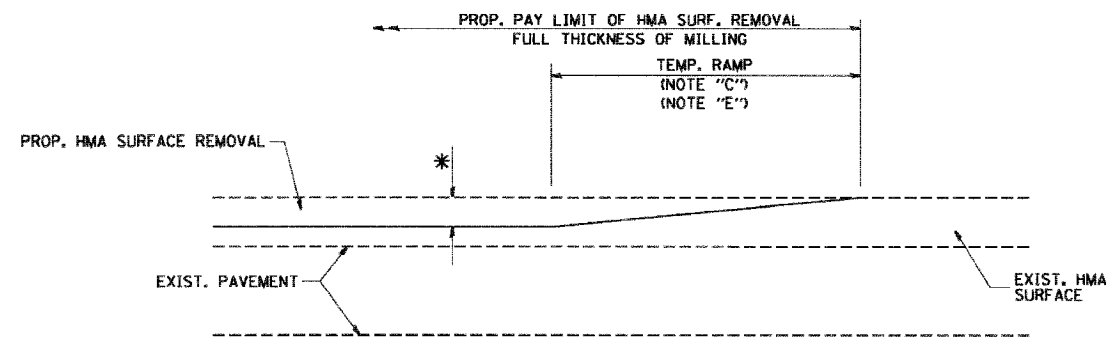
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT**

SCALE: VERT. NONE  
HORIZ.  
DRAWN BY  
CHECKED BY  
SD600-06 (80-24)

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

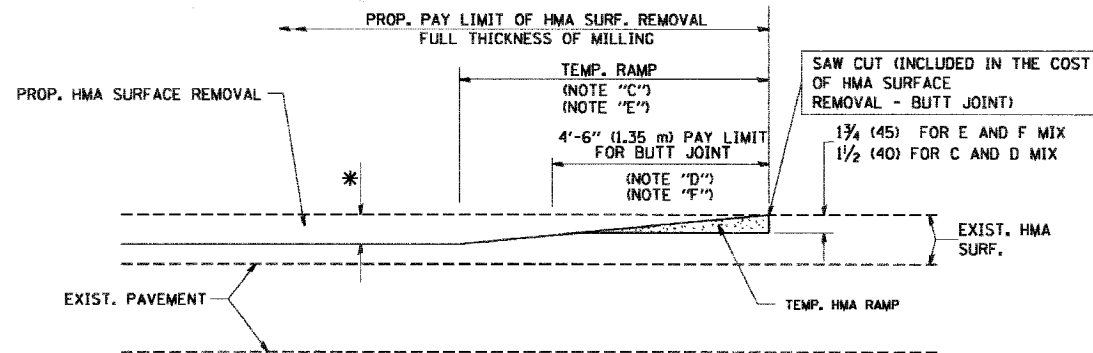
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USER NAME: bward

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	26
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



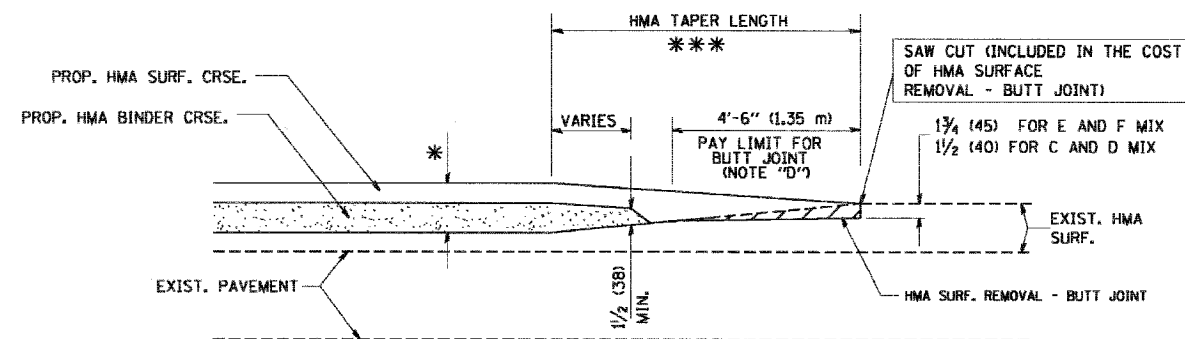
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**



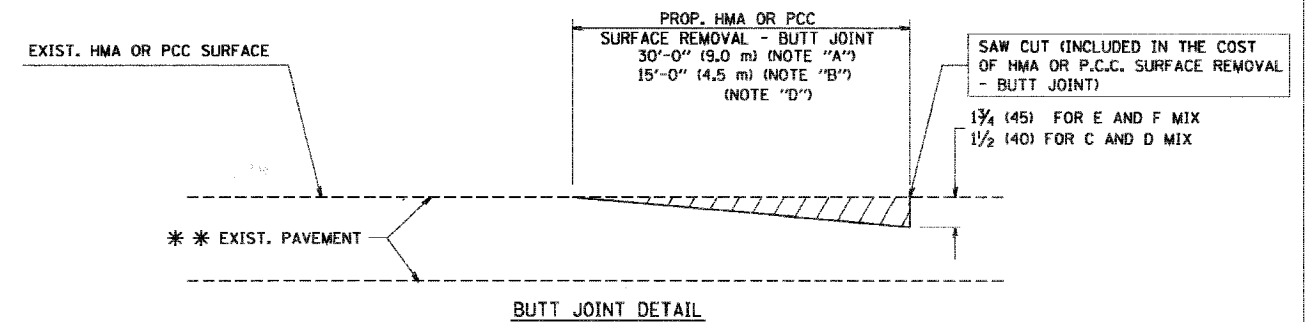
HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**  
**TYPICAL TEMPORARY RAMP**

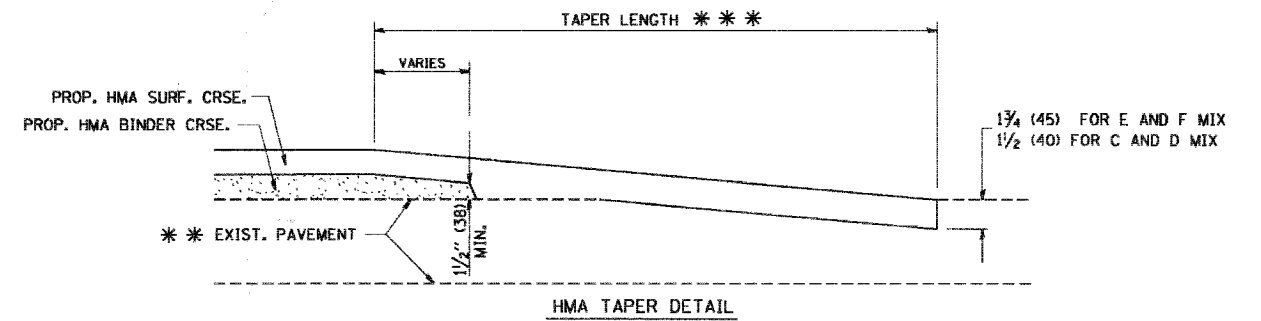


BUTT JOINT AND  
HMA TAPER

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



BUTT JOINT DETAIL



HMA TAPER DETAIL

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

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

**NOTES**

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

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

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

**BASIS OF PAYMENT:**

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

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/08
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

**BUTT JOINT AND HMA TAPER DETAILS**

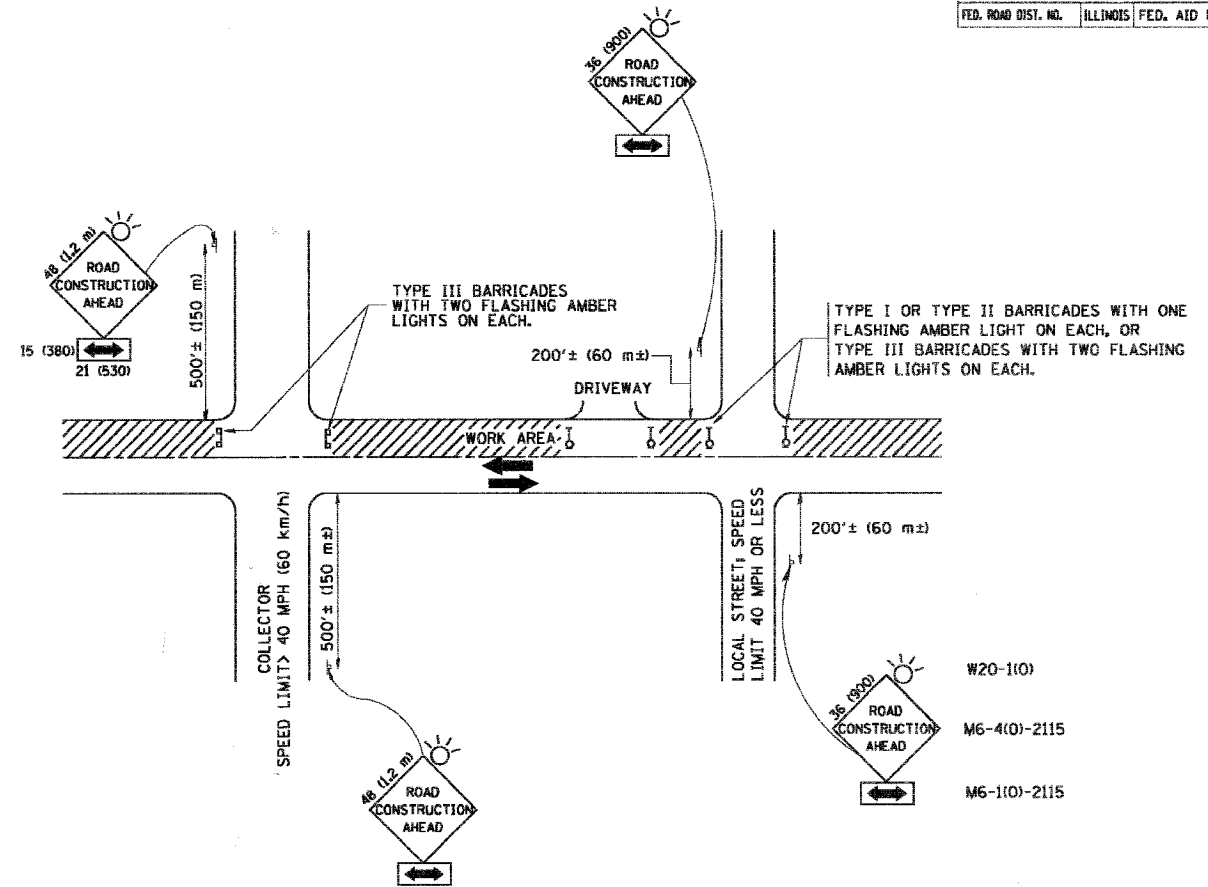
SCALE: VERT. NONE  
HORIZ.

DRAWN BY

CHECKED BY

BD400-05 (VI=BD32)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	07-00101-00-RS	COOK	29	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



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

NOTES:

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

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

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

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

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

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

REVISIONS	
NAME	DATE
L.H.A.	6/789
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

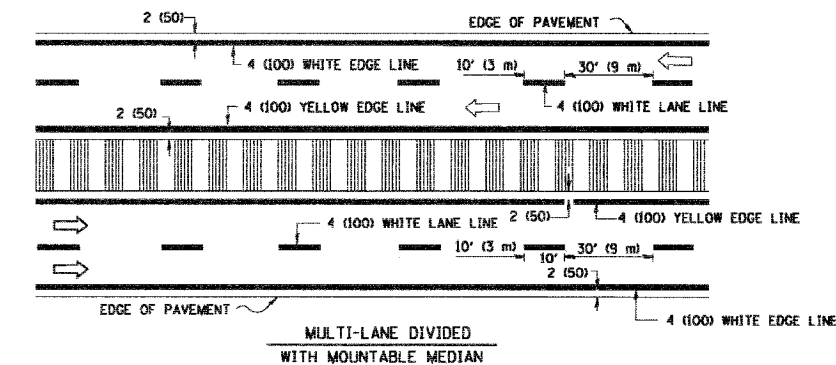
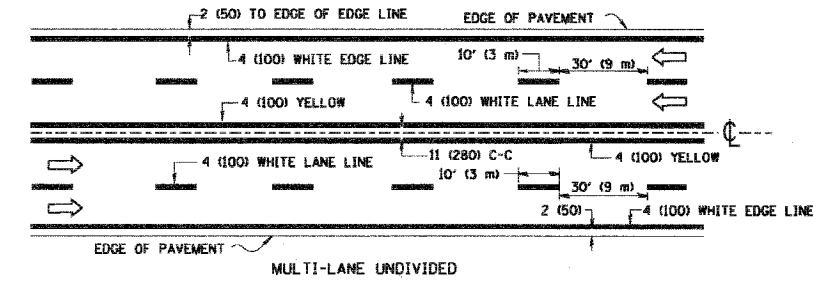
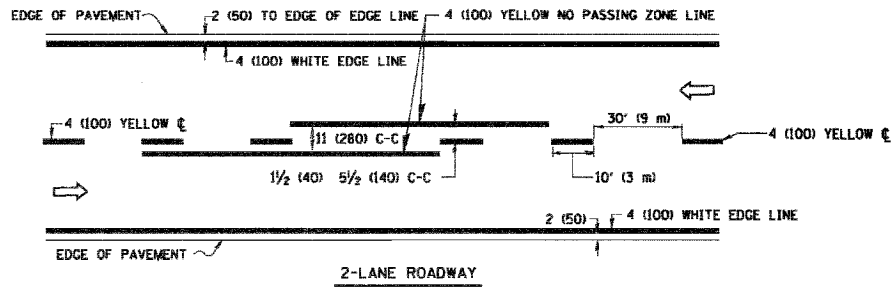
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL AND PROTECTION  
 FOR  
 SIDE ROADS, INTERSECTIONS, AND  
 DRIVEWAYS

SCALE: NONE

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 CHECKED BY  
 TC-10

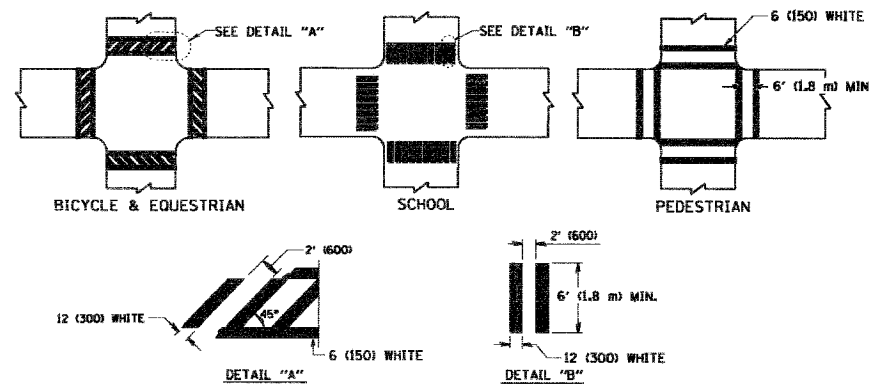
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

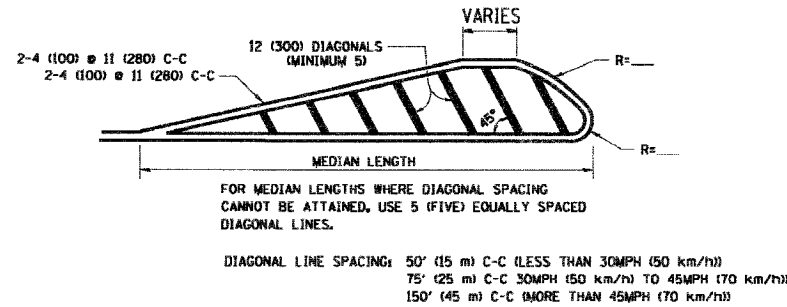
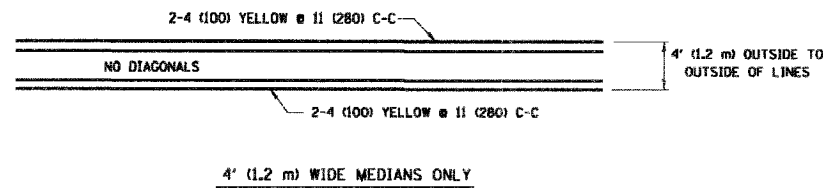


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

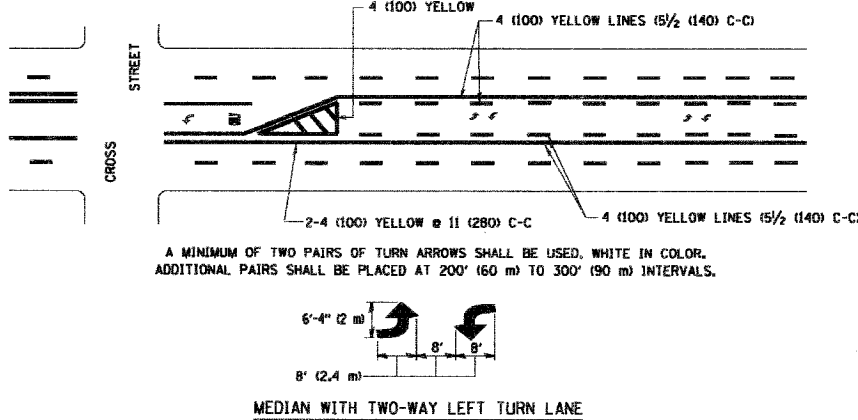
TYPICAL LANE AND EDGE LINE MARKING



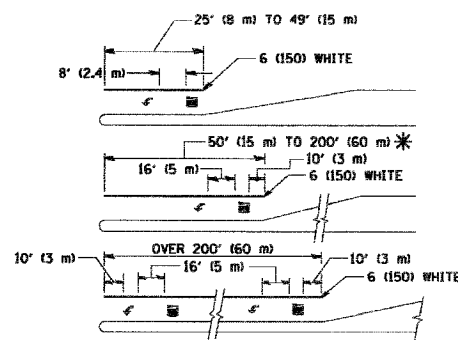
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE



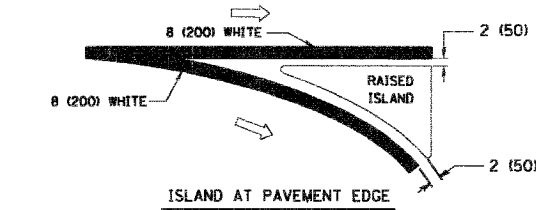
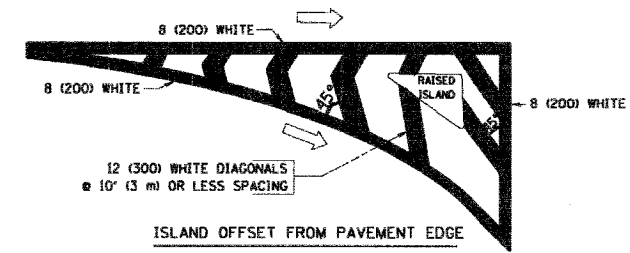
TYPICAL PAINTED MEDIAN MARKING



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 LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT ONE  
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CAD0

CHECKED BY

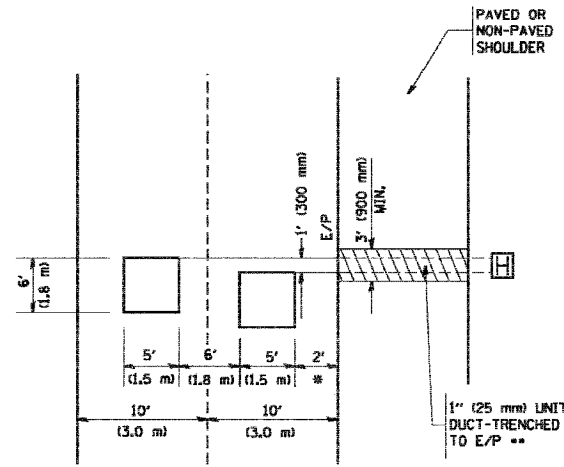
TC-13

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 USER NAME = baward

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
279107-00101-00-RS		COOK	29	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**LOOPS NEXT TO SHOULDERS**

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

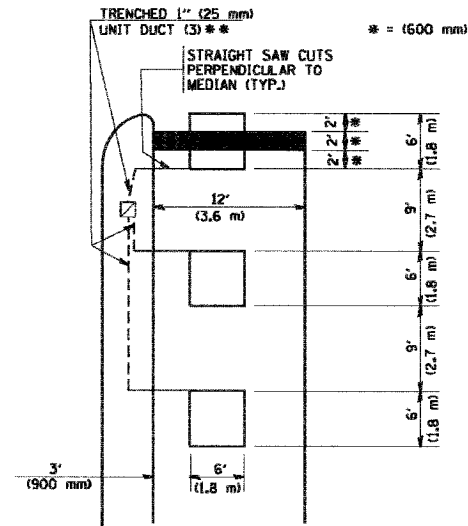


\* = (600 mm)

\*\* 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)**

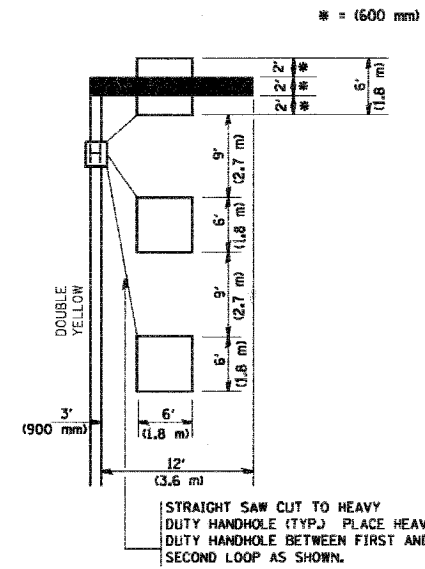
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



\*\* 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)**



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

**NOTES:**

**VEHICLES LOOP DETECTORS**

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

**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:**

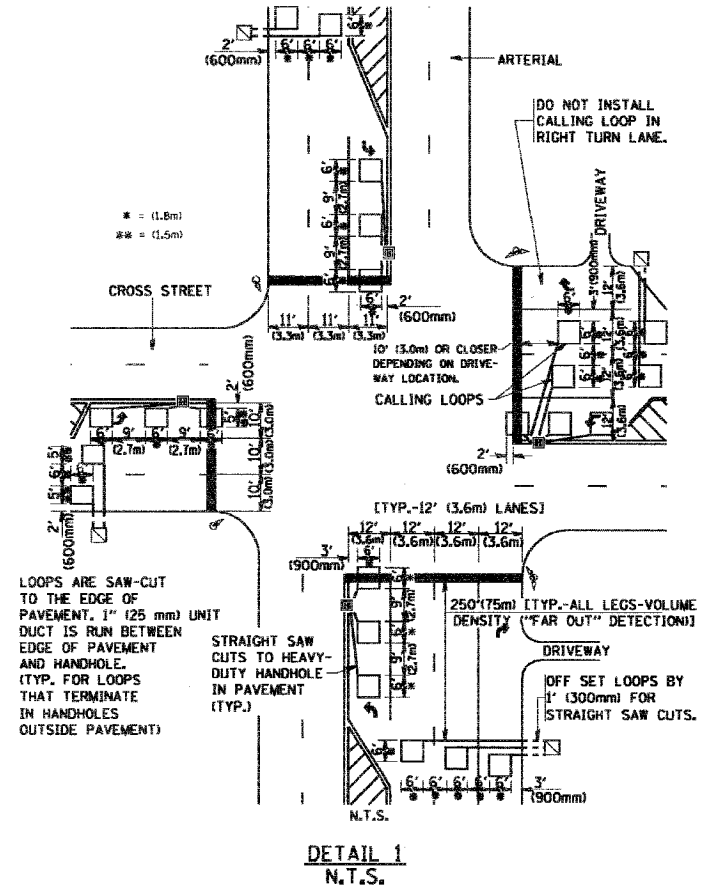
ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

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.

REVISIONS	
NAME	DATE

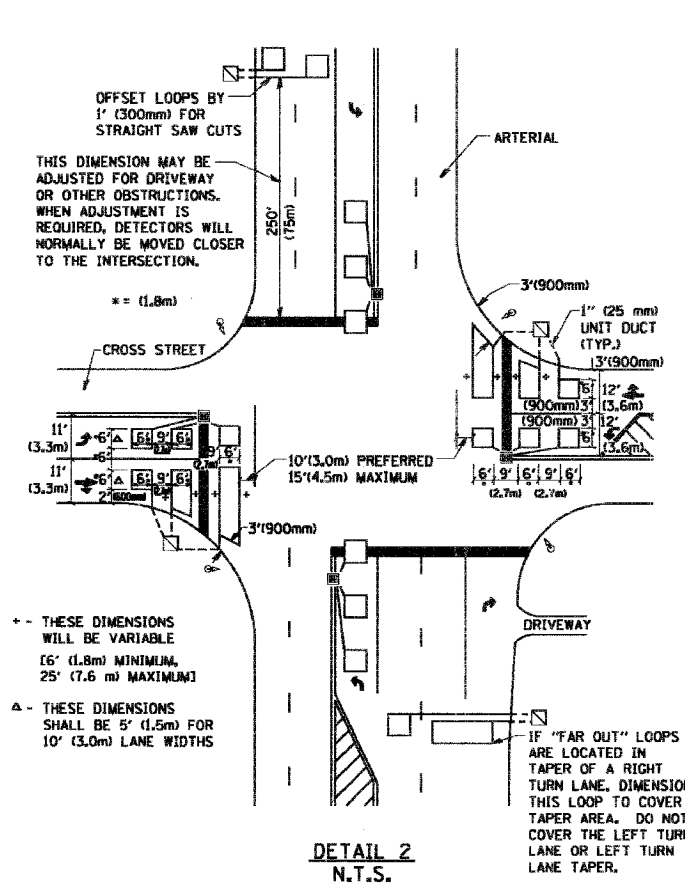
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 1  
DETECTOR LOOP  
INSTALLATION DETAILS  
FOR ROADWAY RESURFACING  
DESIGNED BY  
DRAWN BY CADD  
CHECKED BY R.K.F.  
TS07

**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.

--- THESE DIMENSIONS WILL BE VARIABLE (6' (1.8 m) MINIMUM, 25' (7.6 m) MAXIMUM)

--- THESE DIMENSIONS SHALL BE 5' (1.5 m) FOR 10' (3.0 m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.