STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** 

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**FAU 2887 (EAST END AVENUE) 26TH STREET (FAU 1633) TO LINCOLN HIGHWAY (FAP 353)** LOCAL AGENCY PAVEMENT PRESERVATION PROGRAM

STREET RESURFACING

**SECTION NO.: 09-00225-00-RS PROJECT NO.: ARA-9003(337)** JOB NO. C-91-653-09 **CITY of CHICAGO HEIGHTS** 

**COOK COUNTY** 

DESIGN DESIGNATION - FAU 2887 (EAST END AVENUE) ADT 5,215 (2030) - COLLECTOR PV=4,185 SU=325 MU=140 100% DESIGN TRAFFIC IN DESIGN LANE P=90% S=7% M=3% SSS=FAIR FAU 2887 (EAST END AVENUE) 2007 ADT -2030 ADT -POSTED SPEED LIMIT 30 mph DESIGN PERIOD -DESIGN SPEED LIMIT -STREET CLASSIFICATION 20 YEARS 30 mph CLASS II

INDEX OF SHEETS

IDOT DISTRICT 1 STANDARD DETAILS

**HIGHWAY STANDARDS** 

COVER SHEET, INDEX OF SHEETS, & STATE STANDARDS SUMMARY OF QUANTITIES, & GENERAL NOTES

CLASS C AND D PATCHES
MANHOLE — TYPE A
FRAME & LIDS — TYPE 1
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
OFF—RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
LANE CLOSURE, 2L, 2W MOVING OPERATIONS — DAY ONLY
LANE CLOSURE, MULTILANE, INTERNITENT OR MOVING OPER, FOR SPEEDS > 45 MPH
URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
URBAN LANE CLOSURE, MULTILANE, 2W CONTROL OF THE MOVING OPER,
THE CLOSURE, MULTILANE, WITH MOUNTABLE MEDIAN
URBAN LANE TO STANDARD MOUNTABLE MULTILANE, WITH MOUNTABLE MEDIAN
URBAN LANE CLOSURE, MULTILANE, WITH MOUNTABLE
URBAN LANE CLOSURE, MULTILANE, WITH MOUNTABLE
URBAN LANE CLOSURE, WITH MOUNTABLE
URBAN LANE CLOSURE, WITH MOUNTABLE
UR

PROFILE HORIZ. - 1"=50" PROFILE VERT. - 1"=5"

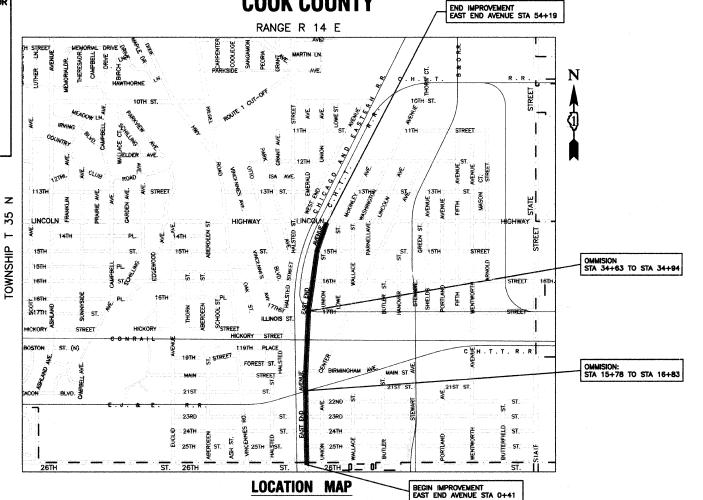
701701--06



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.

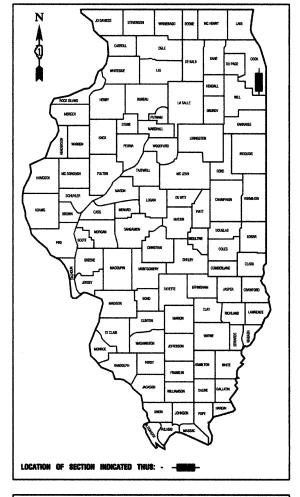
J. U. L. I. E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1 - 800 - 892 - 0123 or 811

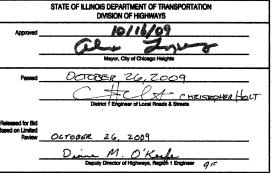
CONTRACT NO. 63314



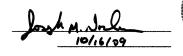
COUNTY STA. 0+41 TO STA. 54+19 PED. NOVO DIST. NO. | LLINOIS | PED. NO PROJECT ARA-9003(337)

**CONTRACT #63314** 





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06173\_01-COVR-01 - C02

ENGINEER D.O.T.

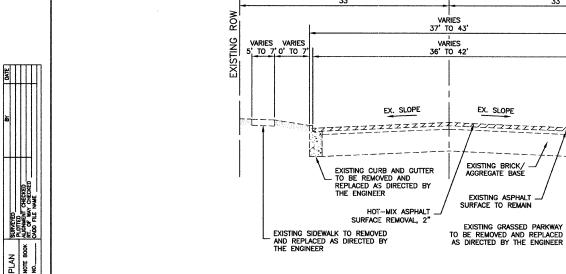
GROSS LENGTH=5378 FEET=1.02 MILES NET LENGTH=5.242 FEET=0.99 MILES

	SUMMARY OF QUANTITIES				MARKINGS		
I. CODE NO.	PAY ITEM	UNIT	QUAN	<u></u>	ONSTRUCTIO	<del></del>	<del></del>
		Otti	QOAN	1000	SFTY-1D	Y003	Y002-
20101700	SUPPLEMENTAL WATERING	UNIT	4			4	
20200100	EARTH EXCAVATION	CU YD	2	2			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	171			171	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2.5			2.5	ļ
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2.5		l	2.5	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2.5			2.5	
25200110	SODDING, SALT TOLERANT	SQ YD	171			171	
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	331	331			
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	308	308			
35800100	PREPARATION OF BASE	SQ YD	3805	3805			
35800200	AGGREGATE BASE REPAIR	TON	1256	1256			
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	85	85			
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4828	4828			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	203	203			
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	35	35			
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2026	2026			
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	113	113			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2975	2975	l		İ
42400800	DETECTABLE WARNINGS	SQ FT	280	280			
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"			i			l
	DRIVEWAY PAVEMENT REMOVAL	SQ YD	23134	23134			1
44000200	SIDEWALK REMOVAL	SQ YD	421	421			l
44000600		SQ FT	2856	2856			
44001700		FOOT	1075	1075			
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	10	10			
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	38	38			
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	25	25			
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	3732	3732			
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11	1			
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	80	80			
60500040	REMOVING MANHOLES	EACH	1	1			
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			
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	1904		1904		
72000100	SIGN PANEL - TYPE 1	SQ FT	9				
72900200	METAL POST - TYPE B	FOOT	12				
78000100	THERMOPLASTIC PAVEMENT MARKING — LETTERS AND SYMBOLS	SQ FT	1046	<u> </u>	1046	l	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	12423		12423		,
78000400	THERMOPLASTIC PAVEMENT MARKING — LINE 6"	FOOT	1787		1787		
78000500	THERMOPLASTIC PAVEMENT MARKING — LINE 8"		1				
	THERMOPLASTIC PAVEMENT MARKING — LINE 12"	FOOT	148		148		
78000600	THERMOPLASTIC PAVEMENT MARKING — LINE 24"	FOOT	406		406		
78000650 88600600	DETECTOR LOOP REPLACEMENT	FOOT	566		566		
88600600		FOOT	180	180			ļ
X0325805	BITUMINOUS SIDEWALK REMOVAL  BOLYMEDIZED LEVELING PINIDER (MACHINE METHOD)  11 _ 4 75 NEO	SQ FT	101	101			
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL—4.75, N50	TON	972	972			
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	42.5	42.5	I	1	I

#### **GENERAL NOTES**

- ROBINSON ENGINEERING SHALL BE NOTIFIED TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. CALL (708) 331-6700.
- 2. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I AND TYPE 2 BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE INSTALLED ON EACH BOTTOM RAIL.
- 3. THE REMOVAL OF ANY DRIVEWAYS, PAVEMENT, CURB, ETC. SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS REMOVAL ITEMS.
- 4. WHEN, IN THE CONSTRUCTION OPERATION, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH DAY BY THE CONTRACTOR AT HIS EXPENSE. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, COMMUNICATIONS, AND GAS UTILITIES. (48 HOUR NOTIFICATION REQUIRED.)
- 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- QUANTITIES INCLUDED IN THE PLANS HAVE BEEN PREPARED FROM FIELD NOTES. EXACT LOCATIONS FOR PATCHING SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 8. AREAS DISTURBED BY CONSTRUCTION SHALL BE KEPT TO A MINIMUM. ALL AREAS DISTURBED WHICH WERE NOT SCHEDULED FOR REPAIR OR REPLACEMENT SHALL BE RESTORED AT THE CONTRACTORS EXPENSE.
- 9. UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTORS USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF THE UTILITY INFORMATION.
- ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
- 11. ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE HUMBIS DEPARTMENT OF TRANSPORTATION.
- 12. THE NOMINAL THICKNESS OF HOT-MIX ASPHALT MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT SURFACE IS PLACED.
- 13. CONTRACTOR SHALL MILL EXISTING PAVEMENT PRIOR TO PATCHING.
- 14. THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS.
- 15. THE APPROXIMATE LOCATION OF KNOWN PUBLIC UTILITIES ARE SHOWN ON THE PLANS. HOWEVER, THE DEPARTMENT DOES NOT GUARANTEE ITS ACCURACY, PRIOR TO COMMENCING OPERATIONS ON THE PROJECT WHICH MAY IN ANY WAY CREATE THE POSSIBILITY OF INVOLVEMENT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE FIRM (OR COMMUNITY) INVOLVED. ADJUSTMENT OF ALL PUBLIC UTILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT WILL BE DONE BY THE RESPECTIVE OWNERS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCE CAUSED BY THESE ADJUSTMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATION BEFORE STARTING CONSTRUCTION OPERATIONS.
- 16. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 17. ALL HMA PAVING SHALL FOLLOW DESIGNATED DRIVING LANES AS SHOWN IN STRIPING DETAILS. NO LONGITUDINAL PAVING JOINT OR SEAMS ARE ALLOWED WITHIN THE DRIVING LANES. ALL LONGITUDINAL PAVING JOINTS OR SEAMS WILL BE BETWEEN THE DRIVING LANES.
- 18. CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE LATEST IDOT STANDARD SPECIFICATIONS ADOPTED, THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 19. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT NOT TO DAMAGE EXISTING TREES.
- 20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS THROUGHOUT THE CONSTRUCTION LIMITS AT ALL TIMES. IF DRIVEWAY ACCESS MUST BE RESTRICTED, THE CONTRACTOR SHALL NOTIFY THE RESIDENT IN WRITING 24 HOURS IN ADVANCE.
- 21. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

FILE NAME = 06173_01-QUAN-01 - P01	USER NAME =	DESIGNED — MPN	REVISED —		LOCAL AGENCY PAVEMENT PRESERVATION EAST END AVENUE SUMMARY OF QUANTITIES AND GENERAL NOTES		F.A.U.	SECTION	COUNTY	TOTAL SH	EET
	·	CHECKED JMN	REVISED —	STATE OF ILLINOIS			2887	09-00225-00-RS	соок	18	2
	PLOT SCALE = N/A	DRAWN PS, MJD	REVISED —	DEPARTMENT OF TRANSPORTATION					CONTRACT	NO 63314	<u></u>
	PLOT DATE = 10-16-09	CHECKED JMN	REVISED		SCALE: N/A	SHEET NO. 2 OF 18 SHEETS STA. N/A TO STA. N/A	FED. ROAD I				



# **EXISTING TYPICAL CROSS SECTION**

— € OF CONSTRUCTION

VARIES VARIES 0' TO 10'4' TO 7

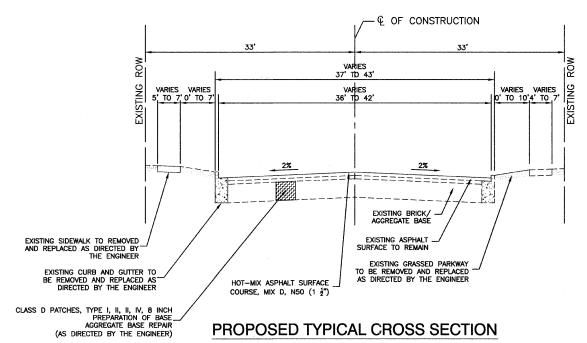
STA. 00+41 TO STA. 15+78 STA. 16+83 TO STA. 20+48 STA. 21+31 TO STA. 27+56 STA. 28+51 TO STA. 34+63 STA. 34+94 TO STA. 54+19

# Note: Contractor shall Mill before Patching.

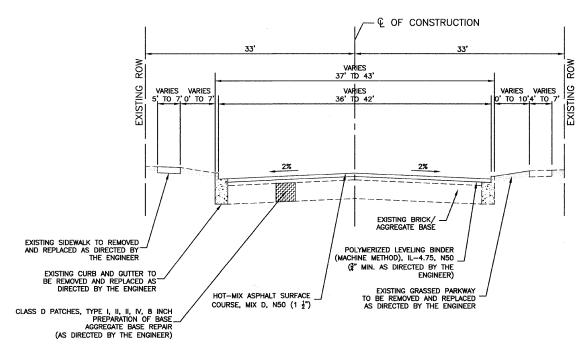
HOT MIX ASPHALT MIXTURE REQUIREMENT CHART	
	AIR VOIDS @
ITEM	Ndes
Roadway	
HMA Surface Course, Mix "D", N50 (IL 9.5 mm); 1 1/2"	4% @ 50 Gyr.
Polymerized Leveling Binder (Machine Method), IL-4.75, N50 (IL 9.5 mm); 3/4"	4% @ 50 Gyr.
Patching	
Class D Patches (HMA Binder IL-19.0 mm); 8"	4% @ 70 Gyr.
HMA Driveways	
HMA Surface Course, Mix "C", N50 (IL 9.5 mm); 2"	4% @ 50 Gyr.
HMA Base Course (HMA Binder IL-19.0 mm); PE-6", CE-8"	4% @ 50 Gyr.

The unit weight used to calculate all Hot-Mix Asphalt Surface Mixtures is 112 lbs/sq yd/in.
 The "AC Type" for Polymerized HMA Mixes shall be "SBS/SBR PG 70-22" and for

Non-Polymerized HMA the "AC Type" shall be "PG 64-22" unless modified by District One Special Provisions. For "Percent of RAP" see District One Special Provisions.



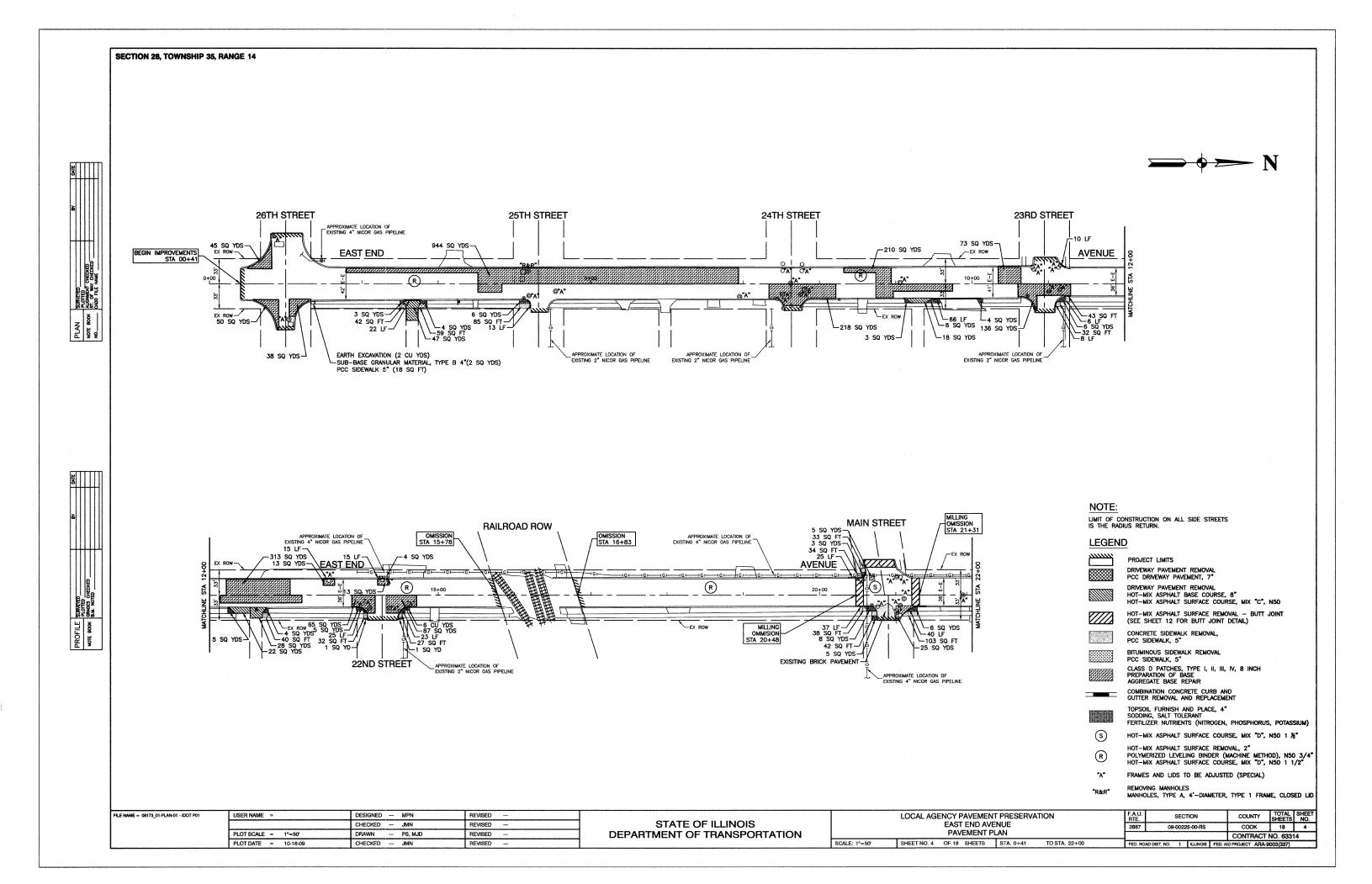
STA. 20+48 TO STA. 21+31 STA. 27+56 TO STA. 28+51



# PROPOSED TYPICAL CROSS SECTION

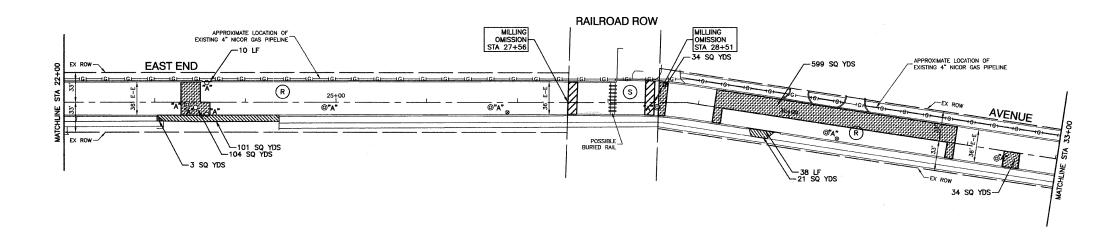
STA. 00+41 TO STA. 15+78 STA. 16+83 TO STA. 20+48 STA. 21+31 TO STA. 27+56 STA. 28+51 TO STA. 34+63 STA. 34+94 TO STA. 54+19

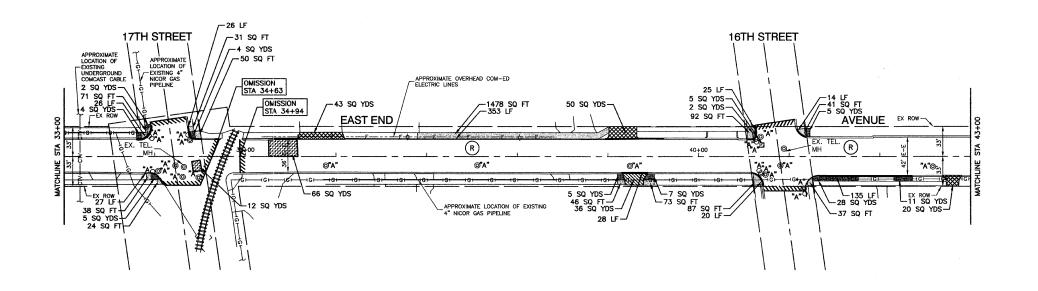
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		CHECKED JMN	REVISED —	STATE OF ILLINOIS			2887	09-00225-00-RS	соок	18 3	٦.
	PLOT SCALE = N/A	DRAWN PS, MJD	REVISED	DEPARTMENT OF TRANSPORTATION				~~~~	CONTRACT	NO. 63314	┪
	PLOT DATE = 10-16-09	CHECKED — JMN	REVISED —				FED. ROAD DIS	ST. NO. 1 ILLINOIS FED. A	ID PROJECT ARA-9	J003(337)	7



SECTION 28, TOWNSHIP 35, RANGE 14 SECTION 21, TOWNSHIP 35, RANGE 14







# NOTE:

LIMIT OF CONSTRUCTION ON ALL SIDE STREETS IS THE RADIUS RETURN.

# LEGEND

PROJECT LIMITS

DRIVEWAY PAVEMENT REMOVAL PCC DRIVEWAY PAVEMENT, 7\*

DRIVEWAY PAVEMENT REMOVAL HOT-MIX ASPHALT BASE COURSE, 8" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (SEE SHEET 12 FOR BUTT JOINT DETAIL)

CONCRETE SIDEWALK REMOVAL, PCC SIDEWALK, 5"

BITUMINOUS SIDEWALK REMOVAL PCC SIDEWALK, 5"

CLASS D PATCHES, TYPE I, II, III, IV, 8 INCH PREPARATION OF BASE AGGREGATE BASE REPAIR

COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

TOPSOIL FURNISH AND PLACE, 4° SODDING, SALT TOLERANT FERTILIZER NUTRIENTS (NITROGEN, PHOSPHORUS, POTASSIUM)

) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 ½"

R

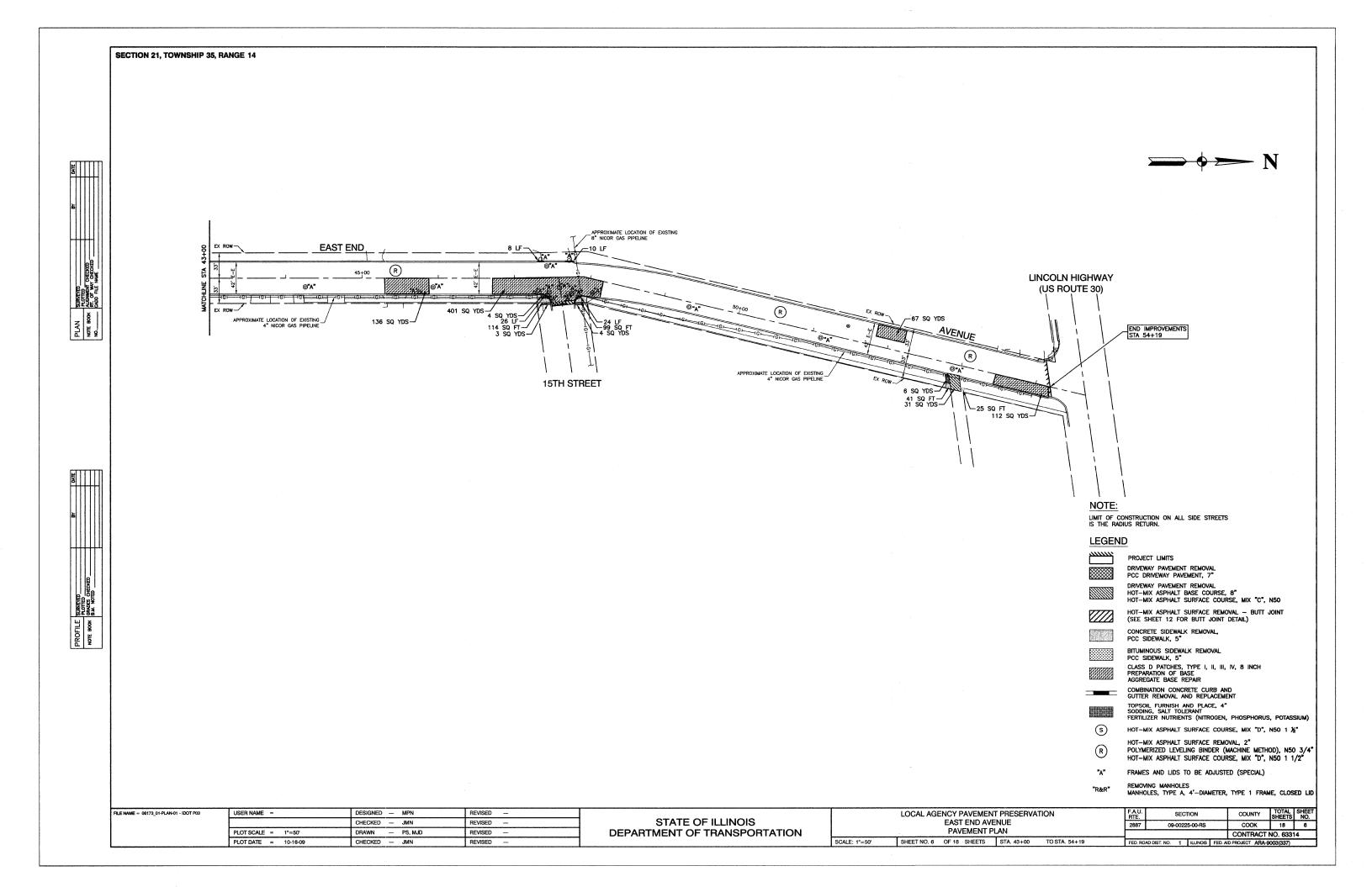
HOT-MIX ASPHALT SURFACE REMOVAL, 2"
POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50 3/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"

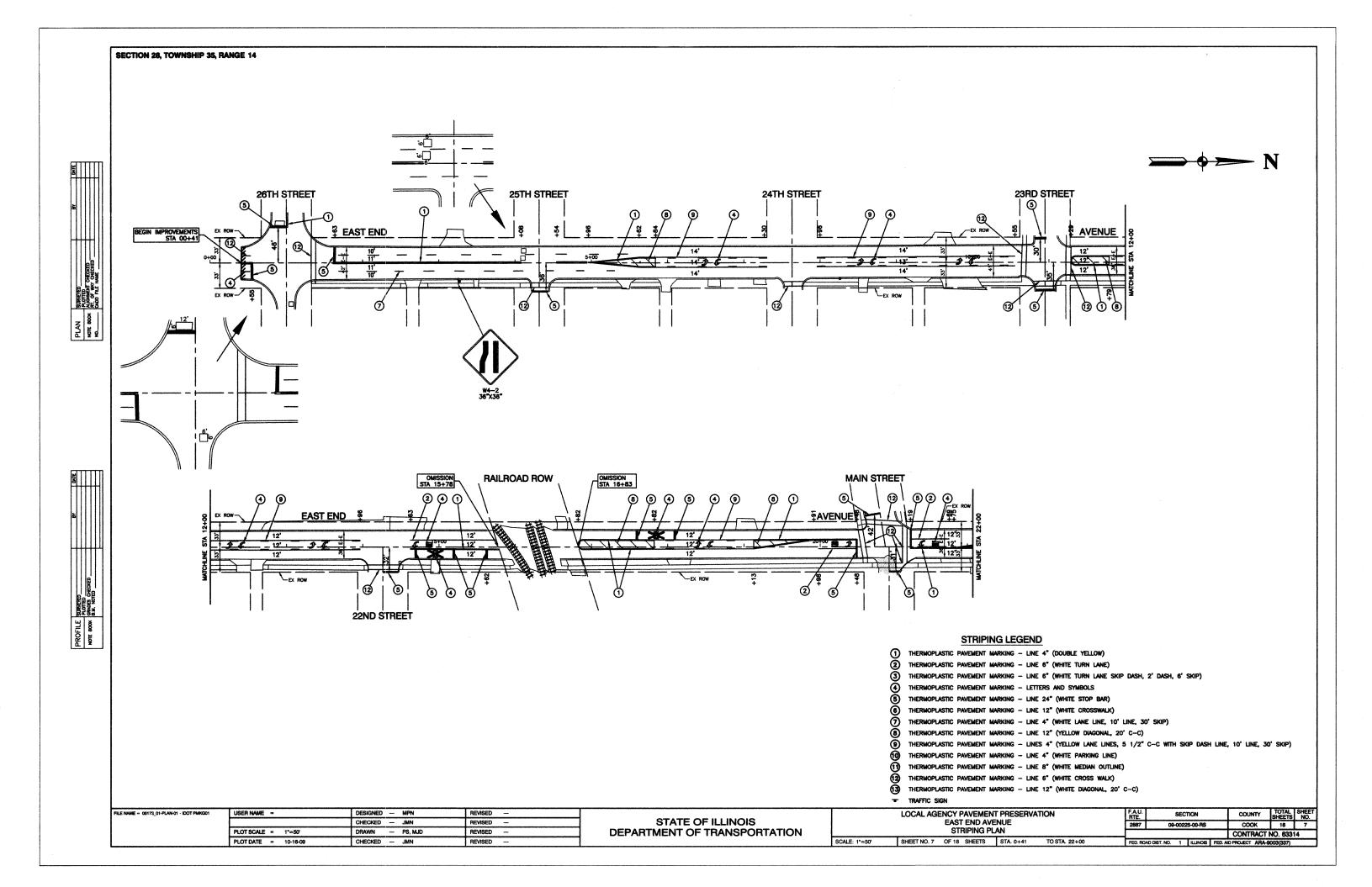
"A" FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

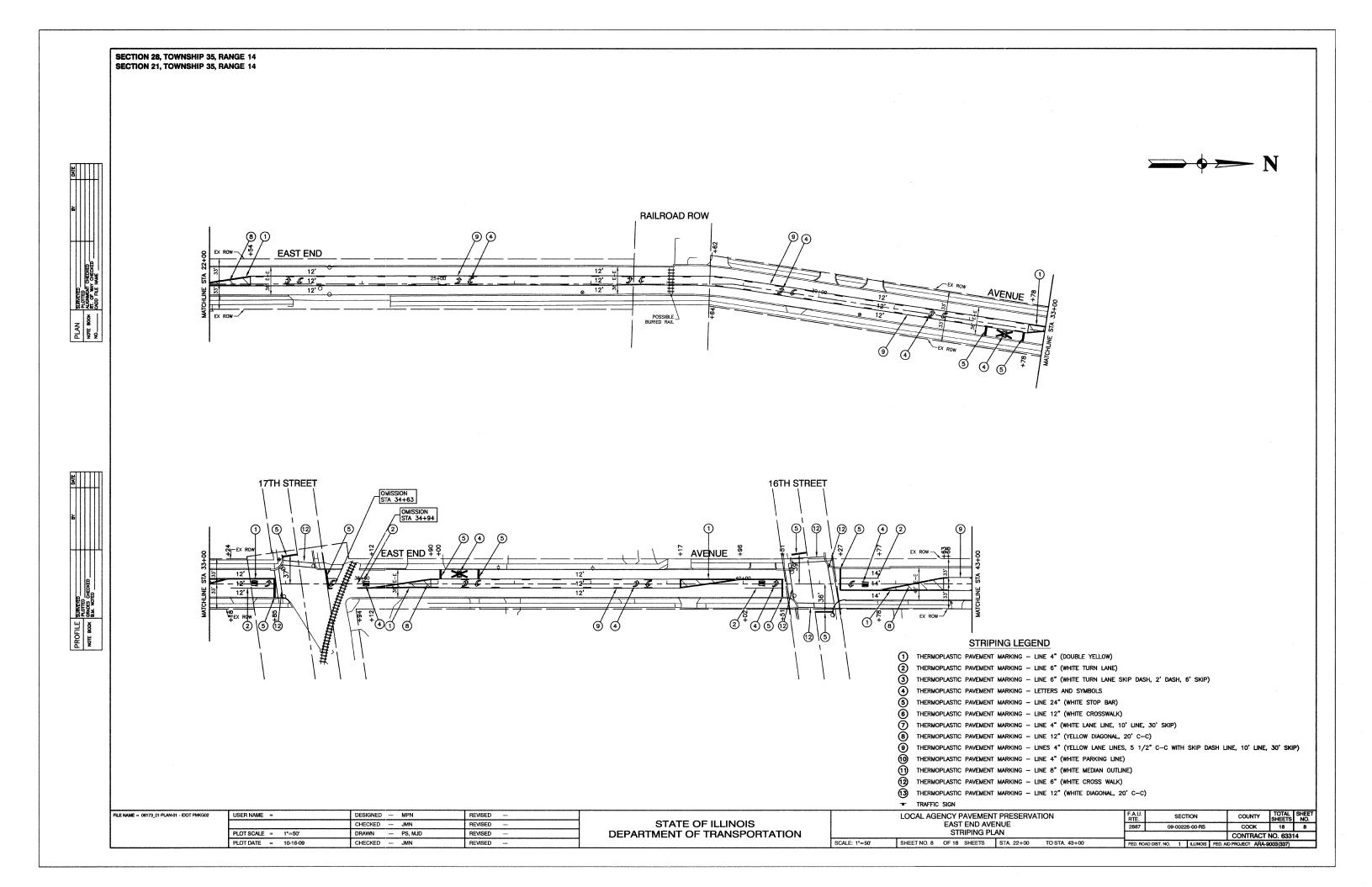
A FRANCIS AND LIDS TO BE ADDOSTED (SPECIAL

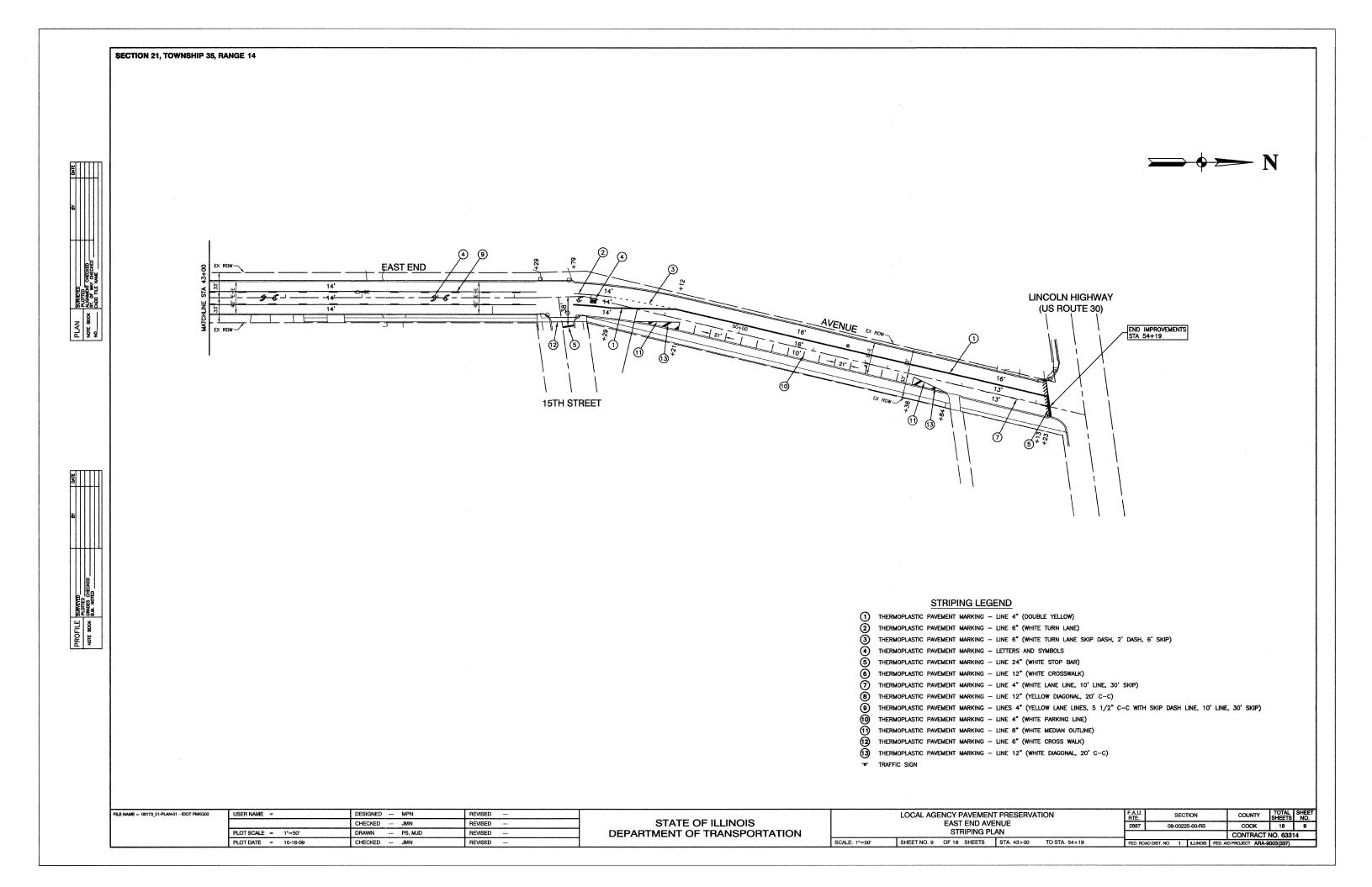
"R&R" REMOVING MANHOLES MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID

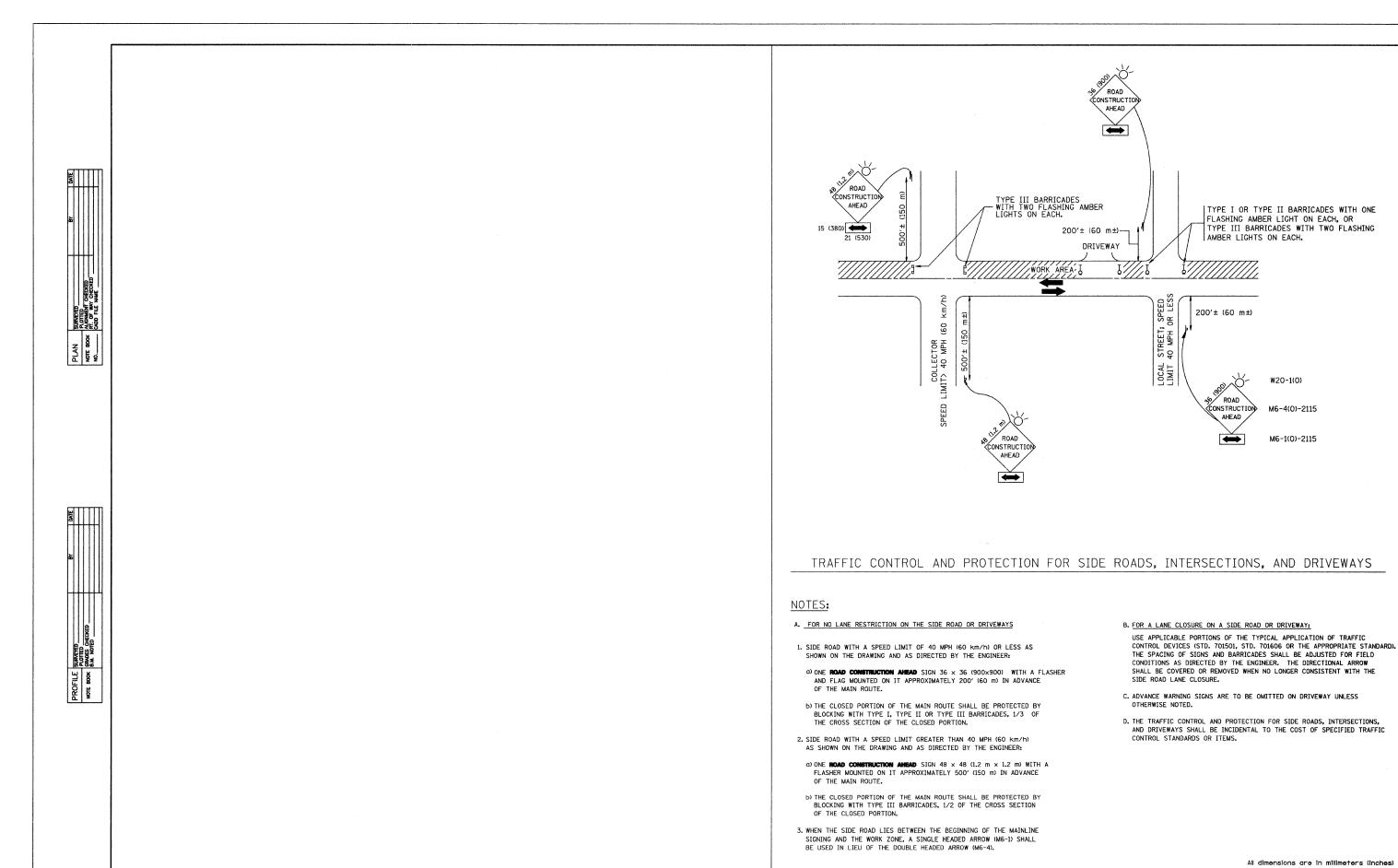
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		CHECKED JMN	REVISED —	STATE OF ILLINOIS			2887	09-00225-00-RS	COOK	18	5
	PLOT SCALE = 1"=50"	DRAWN PS, MJD	REVISED	DEPARTMENT OF TRANSPORTATION					CONTRACT	T NO. 633	4
	PLOT DATE = 10-16-09	CHECKED JMN	REVISED		SCALE: 1"=50'	SHEET NO. 5 OF 18 SHEETS STA. 22+00 TO STA. 43+00	FED. ROAD	DIST. NO. 1 ILLINOIS FEI	D. AID PROJECT ARA		











FILE NAME = 06173\_01-DTLS-01 - TC-10

USER NAME = gaglianobt

PLOT SCALE = 50.000 '/ IN.

PLOT DATE = 1/4/2008

DESIGNED - LHA

CHECKED - 06-89

CHECKED -

DRAWN

REVISED - J. OBERLE 10-18-95

REVISED - A. HOUSEH 03-06-96

REVISED - A. HOUSEH 10-15-96

REVISED -T. RAMMACHER 01-06-00

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

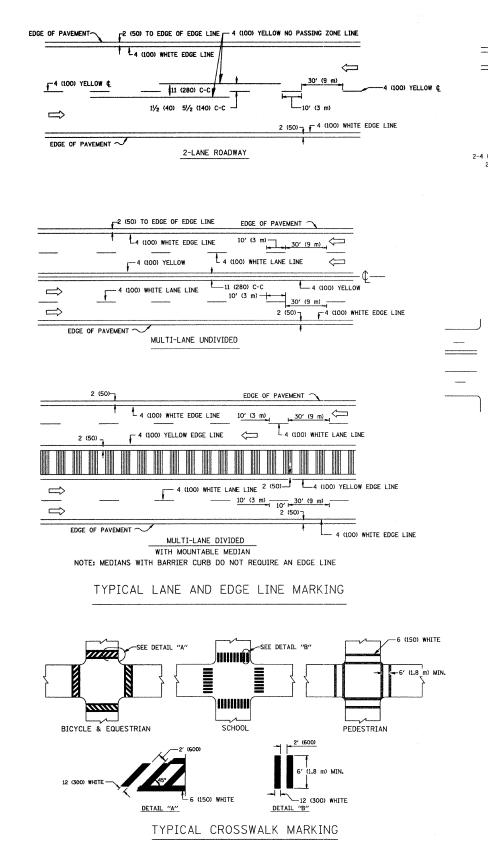
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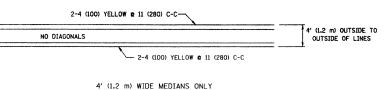
M6-4(0)-2115

M6-1(0)-2115

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR COOK 18 10 2887 09-00225-00-RS SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS TC-10 CONTRACT NO. 63314 SHEET NO. 10 OF 18 SHEETS STA. N/A TO STA. N/A FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003(337)





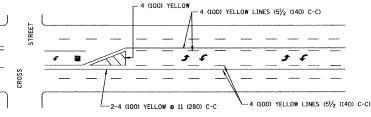
2-4 (100) e 11 (280) C-C
2-4 (100) e 11 (280) C-C

MEDIAN LENGTH

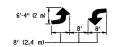
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING
CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED
DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

#### MEDIANS OVER 4' (1.2 m) WIDE

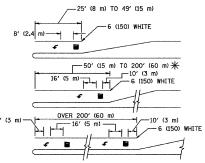


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

# TYPICAL PAINTED MEDIAN MARKING

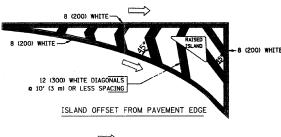


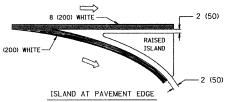
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>)  $\P$  AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\*\* 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 <b>0</b> 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) <b>a</b> 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))

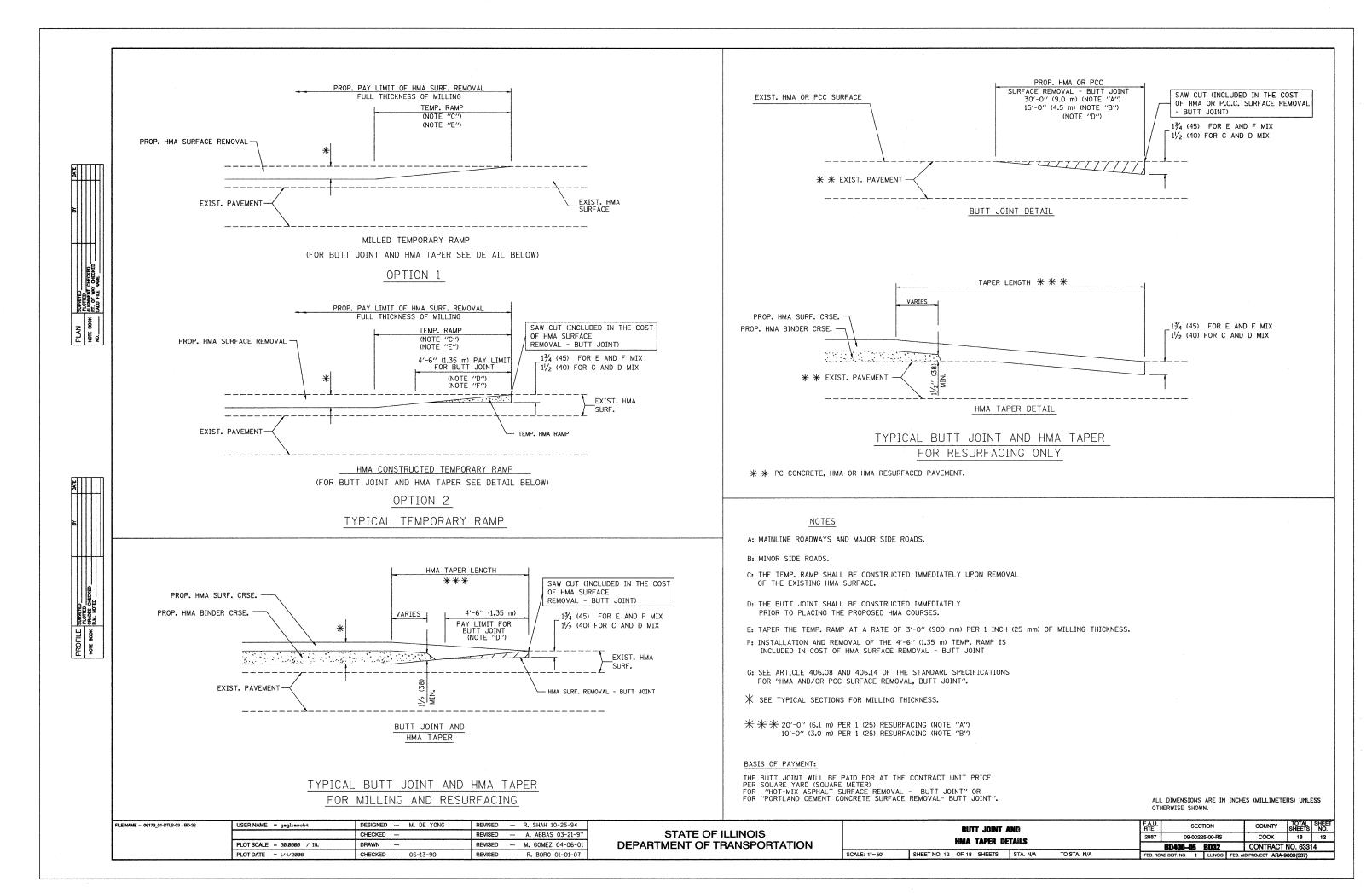
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

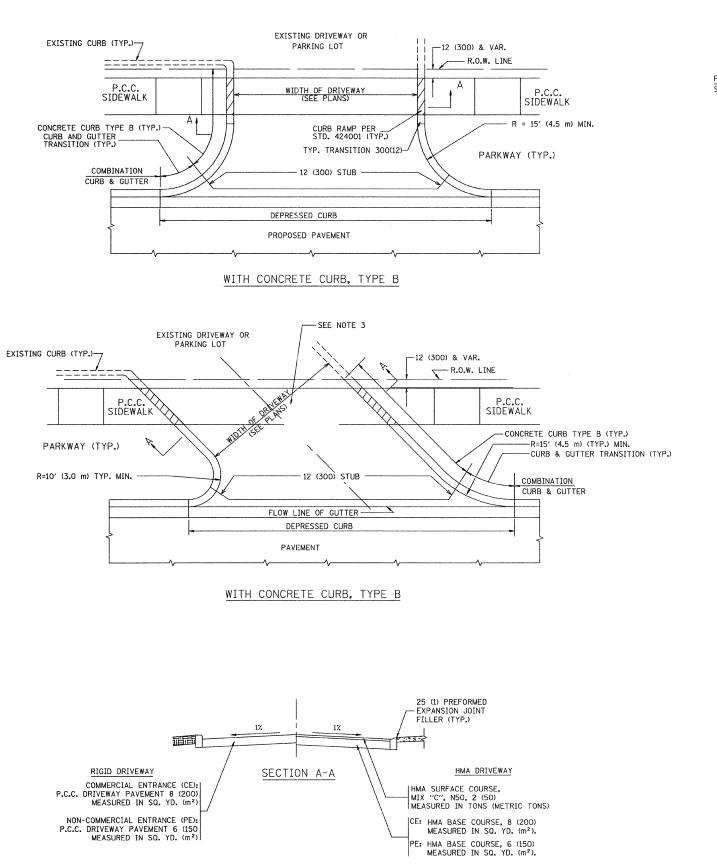
All dimensions are in inches (millimeters) unless otherwise shown.

ILE NAME = 06173_01-DTLS-02 - TC-13	USER NAME = drivakoagn	DESIGNED	 EVERS	REVISED	-T. RAMMACHER	10-27-94
		DRAWN	 	REVISED	-c. JUCIUS	09-09-09
	PLOT SCALE = 50.000 '/ IN.	CHECKED		REVISED	_	
	PLOT DATE = 9/9/2009	DATE	 03-19-90	REVISED	_	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

· ·					
DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEE SHEETS NO.	
TYPICAL PAVEMENT MARKINGS	2887	09-00225-00-RS	COOK	18	11
HITIOAL FATEMENT MARRINGS		TC-13	CONTRACT	NO. 633	14
SCALE: SHEET NO. 11 OF 18 SHEETS STA. N/A TO STA. N/A	FED. RO	AD DIST, NO. 1 ILLINOIS FED. A	ID PROJECT ARA-9	003(337)	





FILE NAME = 06173 01-DTLS-04 - BD-01

USER NAME = bauerdl

PLOT SCALE = 49,9999 '/ IN.

PLOT DATE = 6/12/2008

DESIGNED - R. SHAH

CHECKED -- 11-04-95

CHECKED

DRAWN

REVISED - M. GOMEZ 04-06-01

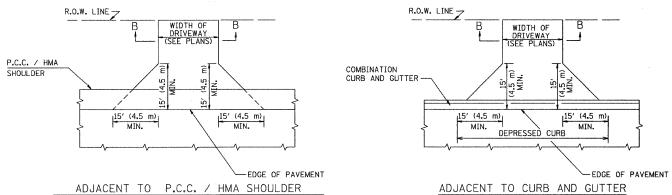
REVISED - P. LaFLUER 04-15-03

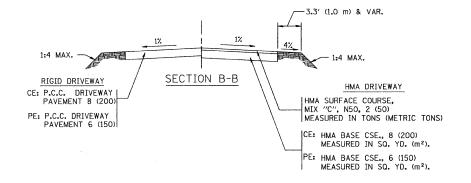
REVISED — R. BORO 01-01-07

REVISED — R. BORO 06-11-08

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 





### RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "C", N5O, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m<sup>2</sup>).

### GENERAL NOTES:

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

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

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

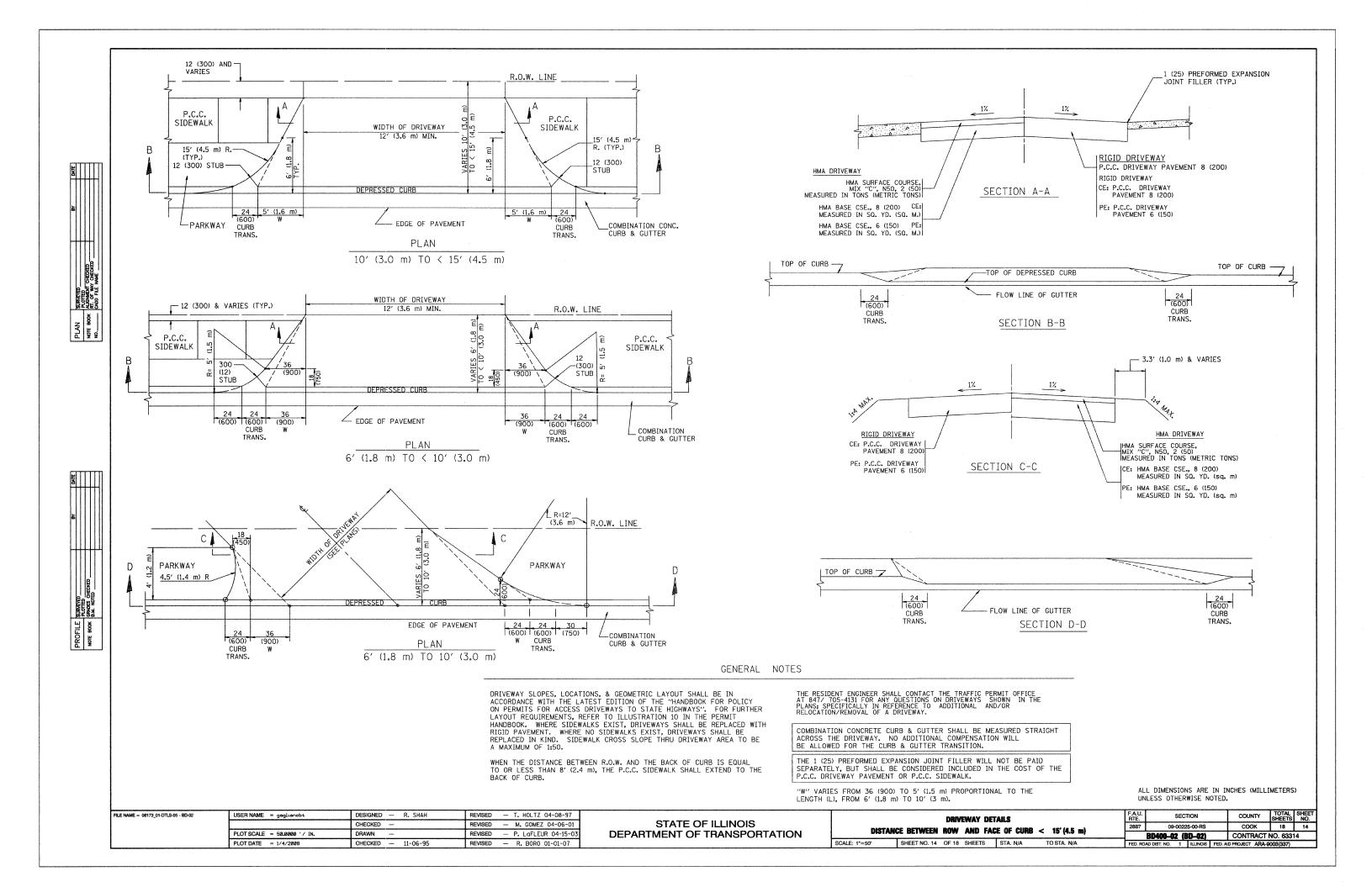
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

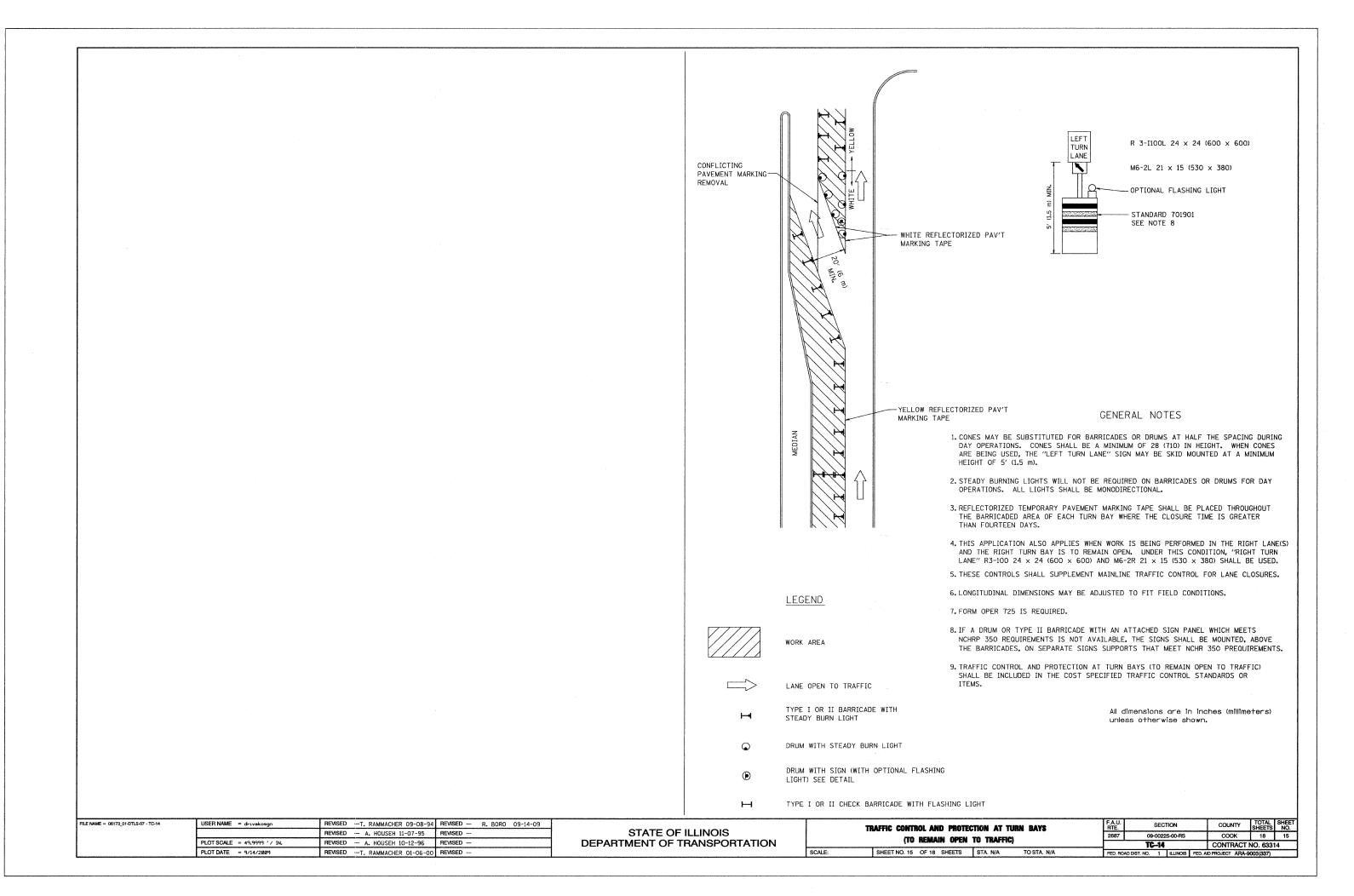
1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

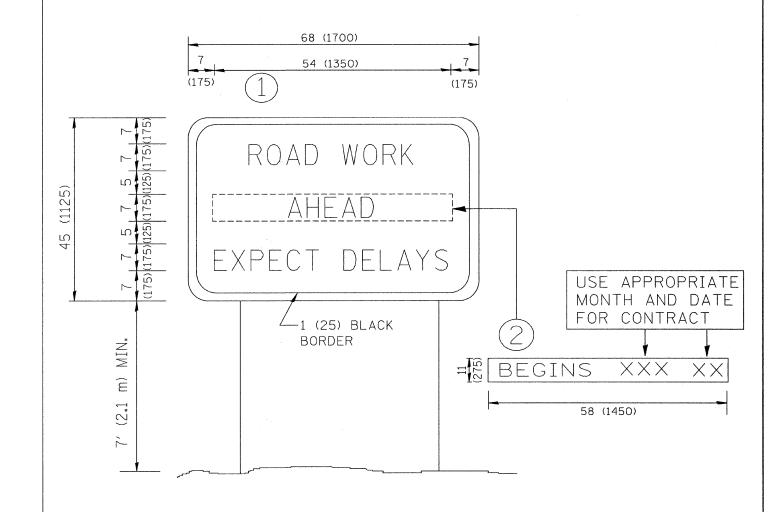
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

SCALE: 1"=50'

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.	F.A.U. RTE.	SECTIO	N	COUNTY	TOTAL SHEETS	SHEET NO.
AND FACE OF CURB & EDGE OF SHOULDER > = 15'(4.5 m)	2887	09-00225-0	10-RS	COOK	18	13
AMD FACE OF CORD & EDGE OF SHOULDEN >= 13 (4.3 HI)		BD0156-07 (BD	) <del>-</del> 01)	CONTRACT	NO. 6331	4
SHEET NO. 13 OF 18 SHEETS STA. N/A TO STA. N/A				D PROJECT ARA-9	9003(337)	







# NOTES:

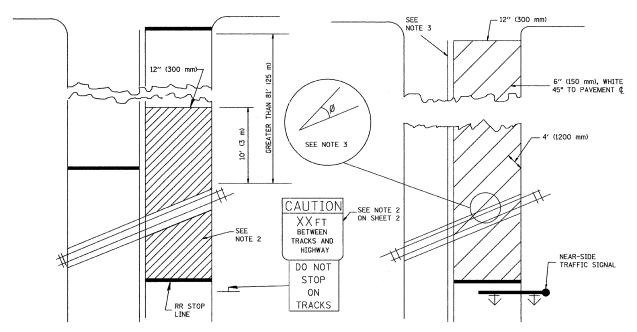
- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START 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 = 06173_01-DTLS-06 - TC-22	USER NAME = gaglianobt	DESIGNED —	REVISED — R. MIRS 09-15-97			ARTERIAL ROA	n	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
		CHECKED —	REVISED R. MIRS 12-11-97	STATE OF ILLINOIS				2887	09-00225-00-RS	соок	18	16
	PLOT SCALE = 50.000 ' / IN.	DRAWN —	REVISED —T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION	Nau		TC-22	CONTRACT	CT NO. 6331	
	PLOT DATE = 1/4/2008	CHECKED	REVISED — C. JUCIUS 01-31-07		SCALE:	SHEET NO. 16 OF 18 SHEETS	STA. TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT ARA	(A-9003(337)	

# WITH INTERSECTION TRAFFIC SIGNALS

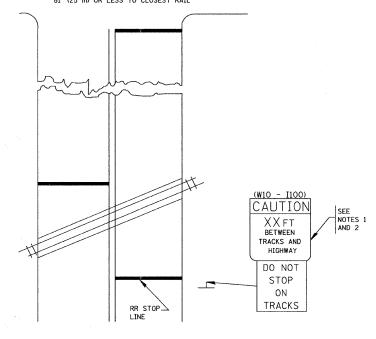
### WITH NEAR-SIDE TRAFFIC SIGNALS



### NOTES:

- 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 STRIFES AND THE TRACK (Ø) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

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



### NOTE

SCALE:

- 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 OF THE NEAR SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

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

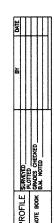
	FILE NAME = 06173_01-DTLS-08 - TC-23	USER NAME = gaglianobt	DESIGNED	REVISED 01-01-07
-			CHECKED	REVISED
		PLOT SCALE = 50.000 '/ IN.	DRAWN	REVISED
į		PLOT DATE = 1/4/2008	CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

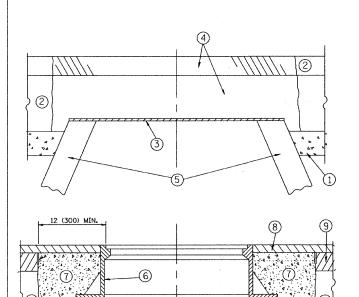
TYPICA				D PAVEMENT	MARKING	F.A.U. RTE. 2887	
	SHEET NO. 17	OF 18	SHEETS	STA.	TO STA.	FED. RO.	AD DIST

F.A.U. RTE.					COUNTY		TOTAL SHEETS	
2887	09-00225-00-RS			COOK		18	17	
 TC-23				CONTRACT NO. 63314				
FED. ROAD DIST. NO. 1 ILLINOIS				FED. AID PROJECT ARA-9003(337)				





12



PROPOSED

PROPOSED

SAND FILL

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 PAYEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

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

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

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

BRICK, MORTAR, OR CONC. ADJUSTING RINGS

### 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 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

### STAGE 2 (AFTER PAVEMENT MILLING)

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

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

### LEGEN

1 SUB-BASE GRANULAR MATERIAL

- PROPOSED SAND FILL

6 FRAME AND LID (SEE NOTES)

CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE

2 EXISTING PAVEMENT

5 EXISTING STRUCTURE

- E) EMBILIO PAREMENT
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
  - ONE AND
- 8 PROPOSED HMA SURFACE COURSE
- PROPOSED HMA BINDER COURSE

### LOCATION OF STRUCTURES:

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

COUNTY TOTAL SHEET NO.
COOK 18 18 USER NAME = gaglianobt DESIGNED - R. SHAH REVISED — R. SHAH 03-10-95 FILE NAME = 06173\_01-DTLS-09 - BD-8 SECTION **DETAILS FOR** STATE OF ILLINOIS CHECKED -REVISED - A. ABBAS 03-21-97 09-00225-00-RS FRAMES AND LIDS ADJUSTMENT WITH MILLING DRAWN REVISED - R. WIEDEMAN 05-14-04 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 63314 BD600-03 (BD-8) SHEET NO. 18 OF 18 SHEETS STA. N/A TO STA. N/A PLOT DATE = 1/4/2008 CHECKED - 10-25-94 REVISED - R. BORO 01-01-07

4 4 4