SCHAUMBURG, 705 RIDDLE,

GARY AVENUE

SPEED LIMIT = 35 MPH

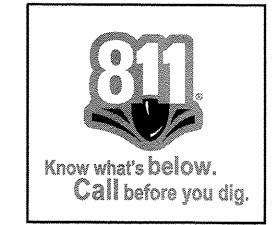
TRAFFIC = 15,100 ADT (2012)

DESIGN DESIGNATION: MAJOR COLLECTOR

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD

OFFICE

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 PROJECT MANAGER: JIM YURATOVAC CONTRACT NO. 61D51



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 2561 (GARY AVENUE) JEWELL ROAD TO HARRISON AVENUE FROM RESURFACING

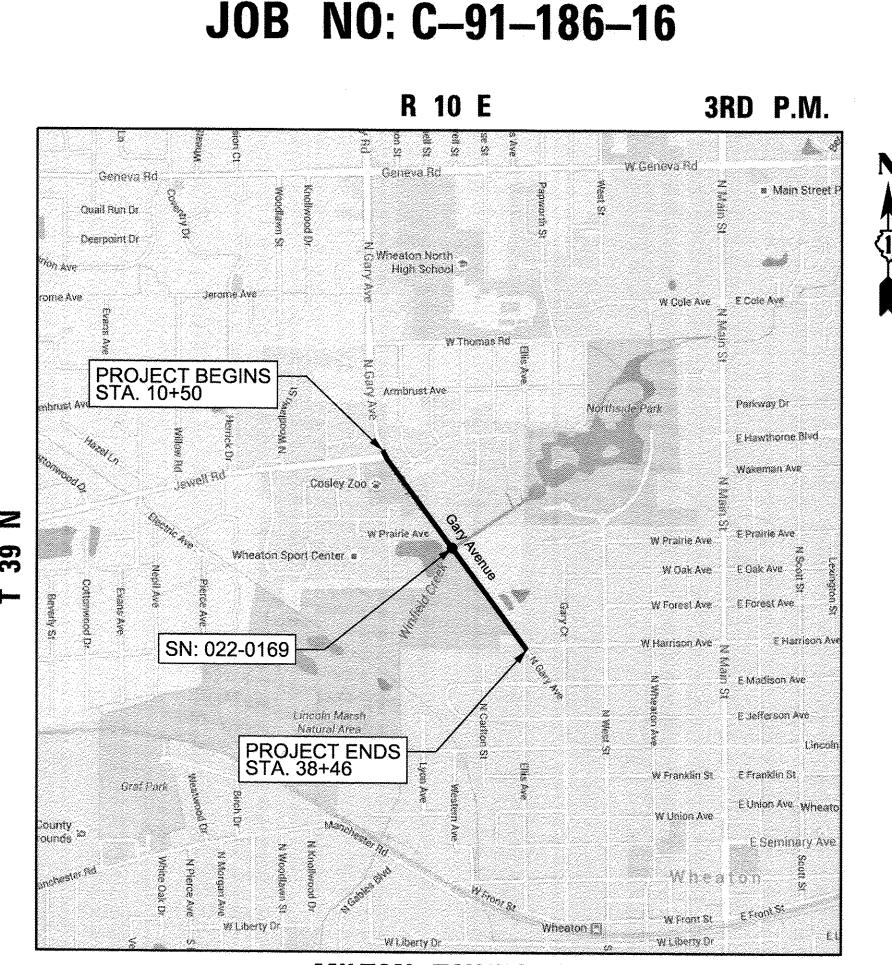
> **SECTION: 15-00111-00-RS** PROJECT: M-4003(652) CITY OF WHEATON **DUPAGE COUNTY**

R 10 E 3RD P.M. # Main Street W Cole Ave E Cole Ave PROJECT BEGINS STA. 10+50 Armbrust Ave E Hawmorne Blvd Cosley Zoo : W Prairie Ave. W Oak Ave E Forest Ave SN: 022-0169 W. Harrison Ave. E Idadison Ave E Jefferson Avc W Franklin St. E Seminary Av Wheatan W Front St

MILTON TOWNSHIP

LOCATION MAP

GARY AVE GROSS LENGTH = 2,796 FT. = 0.53 MILES GARY AVE NET LENGTH = 2,796 FT. = 0.53 MILES



EXPIRATION DATE 11-30-2017



15-00111-00-RS

DUPAGE

ILLINOIS CONTRACT NO. 61D51

PASSED DECEMBER 28 2016

FULT CHERROTHER HOLT DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW Decamber 28

L. Fath REGIONAL ENGINEER

CITY OF WHEATON, DIRECTOR OF ENGINEERING

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROFESSIONAL ENGINEER'S CERTIFICATION

HEREBY CERTIFY THAT THIS SUBMISSION WAS PREPARED UNDER MY PERSONAL DIRECTION. THIS TECHNICAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 8th DAY OF December , 2016

JAMES M. YURATOVAC ILLINOIS ŘEG. PROF. ENGINEER NO.062-060059

062-060059 LICENSED

GENERAL NOTES:

- 1. ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2016.
- 2. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- 3. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, THEIR AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- 4. THE CONTRACTOR SHALL COORDINATE PAVING OPERATIONS FOR BOTH HMA LEVEL BINDER AND SURFACE COURSES SO THAT THE LONGITUDINAL JOINS ARE CLOSED AND COMPACTED AT THE END OF EACH DAY, PAVING OPERATIONS SHALL BE SCHEDULED SO THAT ADJACENT LANES ARE PAVED IN THE SAME DIRECTION AS THE INITIAL LANE MINIMIZING THE TIME THE EDGE OF A PAVEMENT MAT IS ALLOWED TO COOL.
- 5. THE CONTRACTOR SHALL USE 2 CHANGEABLE MESSAGE SIGNS AT LOCATIONS TO BE DETERMINED BY THE ENGINEER FOR A PERIOD FROM ONE WEEK PRIOR TO THE START OF CONSTRUCTION TO THE CONCLUSION OF THE PROJECT.
- 6. THE CONTRACTOR SHALL ENSURE ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE FOR EMERGENCY OPERATIONS. THE LOCATIONS OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
- 7. THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF WATER.
- 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMPING SITES. HE/SHE SHALL PROVIDE A LIST OF THESE SITES TO THE ENGINEER FOR HIS/HER EXAMINATION AND GENERAL INFORMATION.
- 9. ALL EXCESS MATERIAL (BROKEN CONCRETE, ASPHALT, CULVERT PIPE, WASTE ROADWAY EXCAVATION, AND SURPLUS MATERIALS FROM UTILITY TRENCHES) SHALL BE WASTED OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.
- 10. ALL PROPERTY AND SURFACE STRUCTURES WITHIN THE RIGHT-OF-WAY SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS UNLESS THE ENGINEER DIRECTS REMOVAL FOR PURPOSES RELATED TO CONSTRUCTION UNDER THIS CONTRACT. ANY FENCES, POLES, FLAGSTONE, DECORATIVE STONE, SPECIAL LANDSCAPING, OR OTHER MAN MADE SURFACE IMPROVEMENT WHICH IS REMOVED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY HIM TO ITS ORIGINAL CONDITION AFTER THE CONSTRUCTION ACTIVITIES ARE COMPLETED.
- 11. ALL FRAMES, GRATES, LIDS, FIRE HYDRANTS, AND VALVE BOXES WHICH ARE REMOVED AND ARE TO BE ABANDONED SHALL REMAIN THE PROPERTY OF THE CITY OF WHEATON. ANY OF THESE ITEMS WHICH ARE DAMAGED BY THE CONTRACTOR DURING HANDLING SHALL BE REPLACED BY HIM AT HIS EXPENSE. UPON REMOVAL FROM THEIR WORKING LOCATIONS, THEY ARE TO BE STOCKPILED AT AN ON-SITE LOCATION DETERMINED BY THE ENGINEER WHERE THEY WILL BE PICKED UP BY CITY PERSONNEL AT THE CONCLUSION OF WORK ON THAT STREET.
- 12. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO ACCEPT ALL STORM WATER THAT WILL BE DELIVERED BY THESE DRAINS AND BASINS AND SHALL DISCHARGE THE SAME. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT AND TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF WATER WHICH IS RECEIVED FROM ALL TEMPORARY CONNECTIONS. THESE TEMPORARY FACILITIES SHALL BE MAINTAINED UNTIL ALL PERMANENT CONNECTIONS ARE COMPLETED.
- 13. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FOLLOWED WHEN EXISTING CURB AND GUTTER IS REMOVED AND EXISTING DRAINAGE STRUCTURES ARE TO REMAIN ACTIVE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE CONTRACT DOCUMENTS.
- 14. THE THICKNESS OF THE HMA SHOWN ON THE PLANS IS NOMINAL. DEVIATIONS MAY OCCUR IN THE FIELD DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE UPON WHICH THE HMA IS BEING PLACED.
- 15. THE LOCATIONS AND ELEVATIONS OF THE VARIOUS UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL EXERCISE CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR UTILITIES TO PREVENT DAMAGE. THE FAILURE OF A UTILITY COMPANY TO ACCURATELY LOCATE THEIR UTILITY DOES NOT FREE THE CONTRACTOR FROM RESPONSIBILITY. THE MAJOR CONCERN OF THE CITY OF WHEATON IS PUBLIC SAFETY.
- 16. THE CONTRACTOR SHALL COOPERATE WITH THE CITY IN ANY UNDERGROUND UTILITY CONSTRUCTION WHICH THE CITY MAY WANT TO PERFORM DURING THE CONTRACTOR'S OPERATIONS.
- 17. THE CONTRACTOR SHALL HAVE LINE AND/OR FORMS SET A MINIMUM OF FOUR WORKING HOURS PRIOR TO THE SCHEDULED ARRIVAL OF CONCRETE ON SITE FOR THE PLACEMENT OF CURB AND GUTTER, DRIVEWAYS, AND SIDEWALK TO ALLOW THE ENGINEER TIME TO CHECK LINE AND GRADE.
- 18. ALL RADII FOR PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE PLACED AT THE EXISTING DIMENSION UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS OR AS DIRECTED BY THE ENGINEER. ELEVATIONS SHOWN AT POINT ON THE CURB INDICATED FLOW LINE ELEVATIONS UNLESS NOTED OTHERWISE.
- 19. WHEN WATER SERVICE BOXES FALL WITHIN THE LIMITS OF CONCRETE FLATWORK, THE CONTRACTOR SHALL PROVIDE EITHER A SECTION OF 4" POLY VINYL CHLORIDE (PVC) PIPE OR 4" HIGH DESITY POLYETHYLENE (HDPE) PIPE TO SLEEVE THE BOX. THE SLEEVE SHALL EITHER BE REMOVED OR TRIMMED TO MATCH THE EXISTING CONCRETE GRADE LEVEL. THE FINAL RESULT SHALL BE A SMOOTH FINISHED "BOX-OUT" AROUND THE SERVICE BOX WHICH SHALL FACILITATE EASY REMOVAL OF THE CAP.
- 20. WHEN A SEWER STRUCTURE FALLS WITHIN THE LIMITS OF A CONCRETE DRIVEWAY, THE CONTRACTOR SHALL PLACE EXPANSION MATERIAL IN A BOX APPROXIMATELY EIGHTEEN (18") INCHES FROM THE CENTER OF THE LID FORMING A SQUARE "BOX-OUT" AROUND THE FRAME. THE RESULT SHALL BE A CONDITION THAT WILL ALLOW FOR THE REMOVAL OF THE SQUARE OF CONCRETE FROM THE DRIVEWAY FOR THE PURPOSE OF REPLACING THE FRAME WITHOUT DAMAGING THE REMAINDER OF THE DRIVEWAY PAVEMENT.
- 21. ALL CONSTRUCTION PERSONNEL SHALL BE REQUIRED TO WEAR A FLUORESCENT YELLOW / GREEN SAFETY VEST AT ALL TIMES WHILE ON THE CONSTRUCTION SITE.

- 22. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- 23. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD THE LOCATIONS OF ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 24. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 25. THE CONTRACTOR SHALL PROVIDE SAFE AND ORDERLY PASSAGE FOR TRAFFIC AND PEDESTRIANS WHERE CONSTRUCTION OPERATIONS IMPACT PUBLIC THOROUGHFARES AND ADJACENT PROPERTY. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 26. ALL SIDEWALK CURB RAMPS SHALL BE COMPLIANT WITH ALL APPLICABLE ADA STANDARDS AND INCLUDED DETAILS. INDIVIDUAL DESIGN DETAILS HAVE BEEN PROVIDED FOR ALL LOCATIONS WITH AN EXISTING SLOPE OVER 5%.
- 27. A NOMINAL QUANTITY HAS BEEN INCLUDED FOR THE FOLLOWING PAY ITEMS:
- EARTH EXCAVATION
- POROUS GRANULAR EMBANKMENT
- COMBINATION CURB AND GUTTER REMOVAL
- CLASS D PATCHES

- REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- SIDEWALK REMOVAL
- COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

GENERAL NOTES - SEWERS:

ALL FRAMES WITH CLOSED LIDS BEING FURNISHED FOR THIS PROJECT AS CONSTRUCTION, ADJUSTMENT, OR
RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, INLET, OR WATER VALVE VAULT SHALL HAVE CAST INTO THE LID ONE
OR MORE OF THE FOLLOWING WORDS:

ALL LIDS BEING USED FOR STORM SEWER MANHOLES SHALL BEAR THE WORD "STORM". ALL LIDS BEING USED FOR SANITARY MANHOLES SHALL BEAR THE WORD "SANITARY". ALL LIDS BEING USED FOR CITY'S WATER SYSTEM STRUCTURES SHALL BEAR THE WORD "WATER". THE INCLUSION OF THESE LIDS SHALL BE INCLUDED IN THE COST OF THE APPROPRIATE CONTRACT LINE ITEM. ALL CURB INLET FRAMES SHALL BE STAMPED WITH A "FISH" SYMBOL DIRECTLY ON THE CURB BACK.

2. IF AT ANY TIME DURING THE CONSTRUCTION OF THIS PROJECT LOOSE MATERIAL IS DEPOSITED INTO THE FLOW LINE OF A SEWER STRUCTURE IN SUCH A WAY AS TO RESTRICT OR OBSTRUCT THE NATURAL FLOW OF WATER IN THE STRUCTURE, THE MATERIAL SHALL BE REMOVED BEFORE THE CLOSE OF THE WORKING DAY DURING WHICH IT WAS DEPOSITED. AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES, AND BEFORE THE CITY ACCEPTS THE PROJECT, ALL SEWERS AND SEWER STRUCTURES THAT FALL WITHIN THE LIMITS OF THE PROJECT SHALL BE FREE OF CONSTRUCTION DEBRIS AND LOOSE MATERIAL.

LIST OF ABBREVIATIONS								
СВ	CATCH BASIN	SF	SQUARE FEET					
C&G	&G CURB & GUTTER		SQUARE YARDS					
DIA.	IA. DIAMETER		TYPE 1 FRAME, CLOSED LID					
FR	FRAME	T1FOL	TYPE 1 FRAME, OPEN LID					
HMA	HOT-MIX ASPHALT	WM	WATER MAIN					
INV.	INVERT	ADJ	TO BE ADJUSTED					
LF	LINEAL FEET	STM	STORM					
МН	MANHOLE	SAN	SANITARY					
P.C.C.	PORTLAND CEMENT CONCRETE	WQ	WATER QUALITY					

INDEX OF SHEETS

- TITLE SHEET
- 2 GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5-6 GARY AVENUE TYPICAL SECTIONS
- 7-9 GARY AVENUE PLAN SHEETS
- 10-12 GARY AVENUE PAVEMENT MARKING PLAN
- 13–14 WHEATON CONSTRUCTION DETAILS
- 15-23 DISTRICT 1 DETAILS (SHEET 21 NOT INCLUDED)

SCALE:

SHEET

LEGEND	EXISTING	PROPOSED
MAIL BOX	M	
HANDHOLE		S
EVERGREEN TREE	IN THE REAL PROPERTY.	
DECIDUOUS TREE	(i)	
BUSH	0	
PAVEMENT BUTT JOINT		
POWER POLE	-O-	
TELEPHONE BOX	T	
B-BOX	0	•
FIRE HYDRANT	Q	*
VALVE	⊗	•
VALVE VAULT	⊗	②
ABANDON VALVE VAULT		•
WATER MAIN)
MANHOLE	0	0
ABANDON MANHOLE		Ø
CATCH BASIN	0	•
INLET		
STORM SEWER LINE		
SANITARY SEWER LINE		
GAS MAIN	} G }	
INDICATES STORM MANHOLE		<u> 69</u>
INDICATES SANITARY MANHOLE		33)
INDICATES STORM SEWER STRUCTURE		3
INDICATES VALVE TO BE ADJUSTED		(A-VB)
INDICATES TYPICAL CROSS SECTION LOCA	TION	1

DISTRICT 1 HIGHWAY STANDARDS

BD-22	PAVEM	ENT PATO	HING FOR	HMA SU	JRFACED	PAVE	MENT

BD-32 BUTT JOINT AND HMA TAPER DETAILS

TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND

TC-11 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW

RESISTANT)
TC-13 TYPICAL PAVEMENT MARKINGS

TC-16 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

TS-05 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

TS-07 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

IDOT STATE STANDARDS

00001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

424001-09 PERPENDICULAR CURB RAMPS FOR SIDEWALKS

424006-02 DIAGONAL CURB RAMPS FOR SIDEWALKS

424011-03 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-03 MID-BLOCK CURB RAMPS FOR SIDEWALKS

424021-03 DEPRESSED CORNER FOR SIDEWALKS

424026-01 ENTRANCE / ALLEY PEDESTRIAN CROSSINGS

442201-03 CLASS C AND D PATCHES

606001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

606301-04 PC CONCRETE ISLANDS AND MEDIANS

701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE

701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE 701901-06 TRAFFIC CONTROL DEVICES

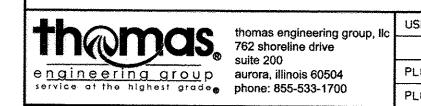
780001-05 TYPICAL PAVEMENT MARKINGS

781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

SUMMARY OF QUANTITIES

			TOTAL QTY.
CODE NO.	ITEM	LIAUT	CONSTR. CODE
NO.		UNIT	0005
20200100	EARTH EXCAVATION	CUYD	18
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20
20700220	POROUS GRANULAR EMBANKMENT	CUYD	20
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	165
25200110	SODDING, SALT TOLERANT	SQ YD	165
28000510	INLET FILTERS	EACH	12
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7740
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	15.9
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQYD	89
40600990	TEMPORARY RAMP	SQ YD	65
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1589
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	963
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	1321
42400800	DETECTABLE WARNINGS	SQ FT	100
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	116

CODE NO.	ITEM	UNIT	TOTAL QTY. CONSTR. CODE 0005
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQYD	11352
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	215
44000600	SIDEWALK REMOVAL	SQFT	1469
44201725	CLASS D PATCHES, TYPE I, 7 INCH	SQ YD	57
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SQ YD	115
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQYD	172
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	229
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	126
60251500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	2
60255500	MANHOLES TO BE ADJUSTED	EACH	14
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	78
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	136
67100100	MOBILIZATION	LSUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1



SER NAME = DonN	DESIGNED -	REVISED
	DRAWN -	REVISED -
LOT SCALE = 2.0000 '/ in.	CHECKED -	REVISED -
LOT DATE = 1/19/2017	DATE -	REVISED -

SCALE: N.T.S.

OHARAADY OF OHABITITIES	F.A.U. SECTION COUNTY TOTAL SHEE SHEETS NO.	
SUMMARY OF QUANTITIES	2561 15-00111-00-RS DUPAGE 23 3	
	CONTRACT NO. 61D51	
SHEET 1 OF 2 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QTY. CONSTR. CODE 0005
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1
	70106800	CHANGEABLE MESSAGE SIGN	CALMO	A
	7010000	CHANGEABLE WESSAGE SIGN	CAL MO	4
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	927
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	306
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQFT	218
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6338
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	413
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	330
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	151
*	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	72
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	528
*	89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
*	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	72
	Z0019600	DUST CONTROL WATERING	UNIT	10
	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1

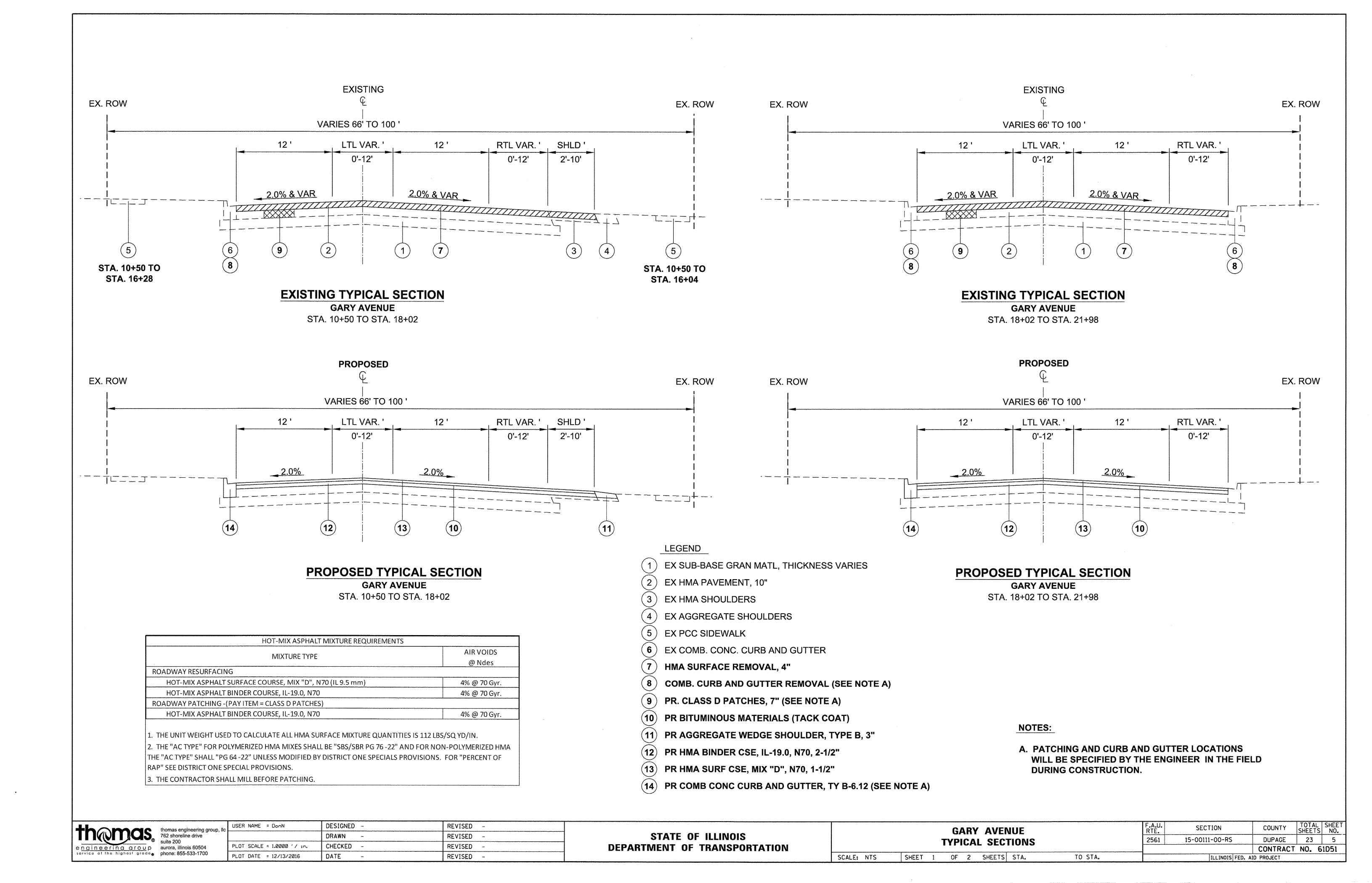
* INDICATES SPECIALTY ITEM

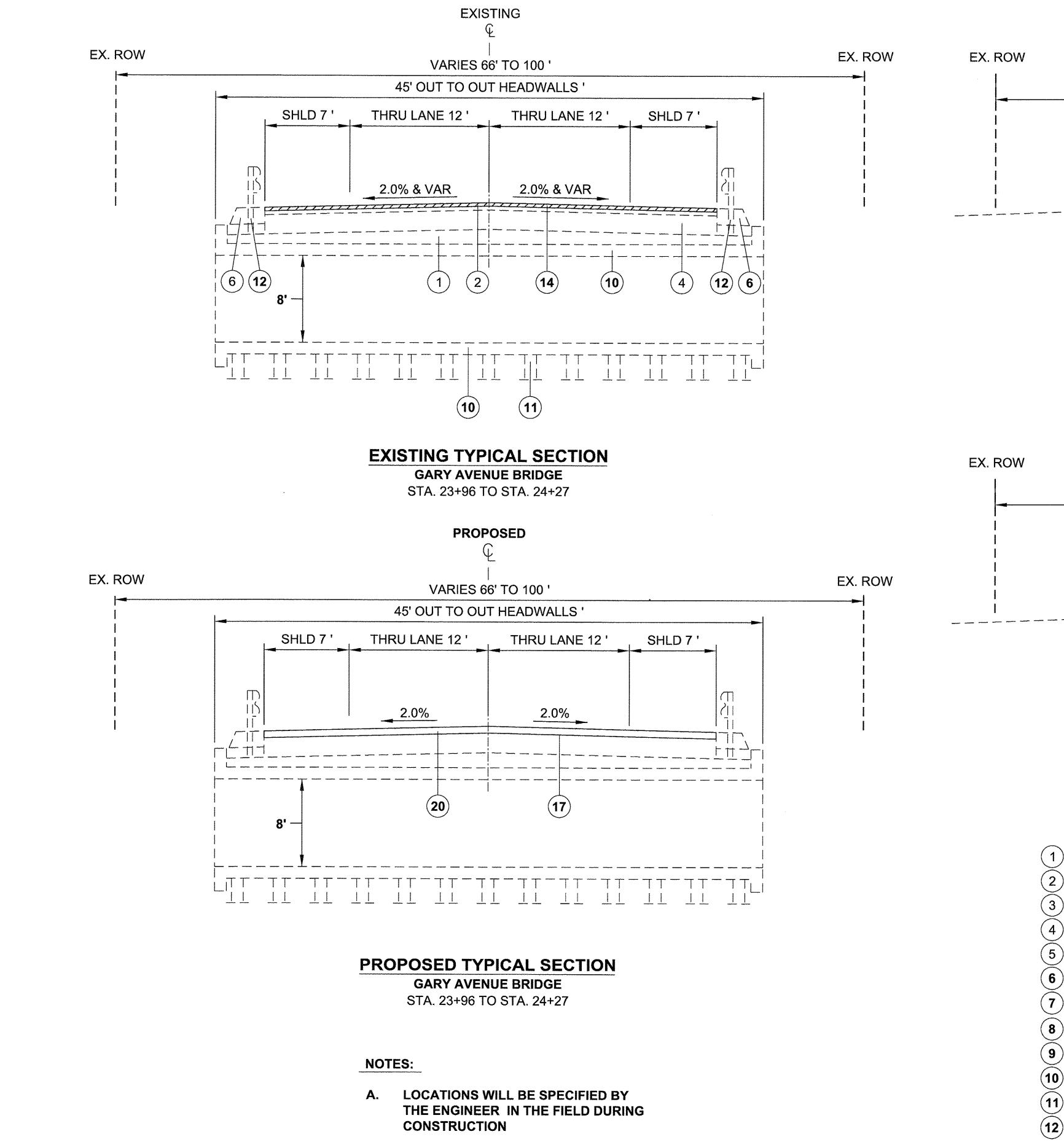
th@mas.	thomas engineering group, Ilc 762 shoreline drive suite 200	U:
engineering group	aurora, illinois 60504	PI
service at the highest grade	phone: 855-533-1700	Р

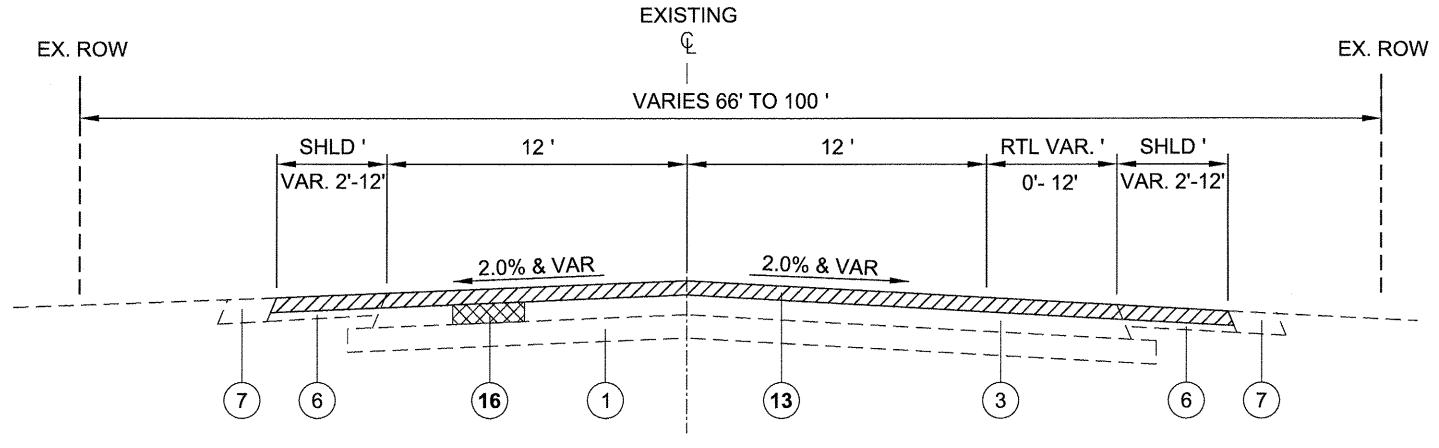
USER NAME = DonN	DESIGNED -	REVISED 12/28/2016
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 '/ in.	CHECKED -	REVISED -
PLOT DATE = 1/19/2017	DATE -	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

CULABAGADY OF CHANTITIES						F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS		
SUMMARY OF QUANTITIES					2561	15-00111-00-RS	DUPAGE	23	4		
									CONTRACT	NO.	51D51
SCALE: N.T.S.	SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.						ILLINOIS FED.	AID PROJECT			







EXISTING TYPICAL SECTION

GARY AVENUE STA. 21+98 TO STA. 23+96 STA. 24+27 TO STA. 38+46

EX. ROW

VARIES 66' TO 100 '

SHLD ' 12 ' 12 ' RTL VAR. ' SHLD ' VAR. 2'-12'

VAR. 2'-12'

2.0%

2.0%

18

PROPOSED TYPICAL SECTION

GARY AVENUE

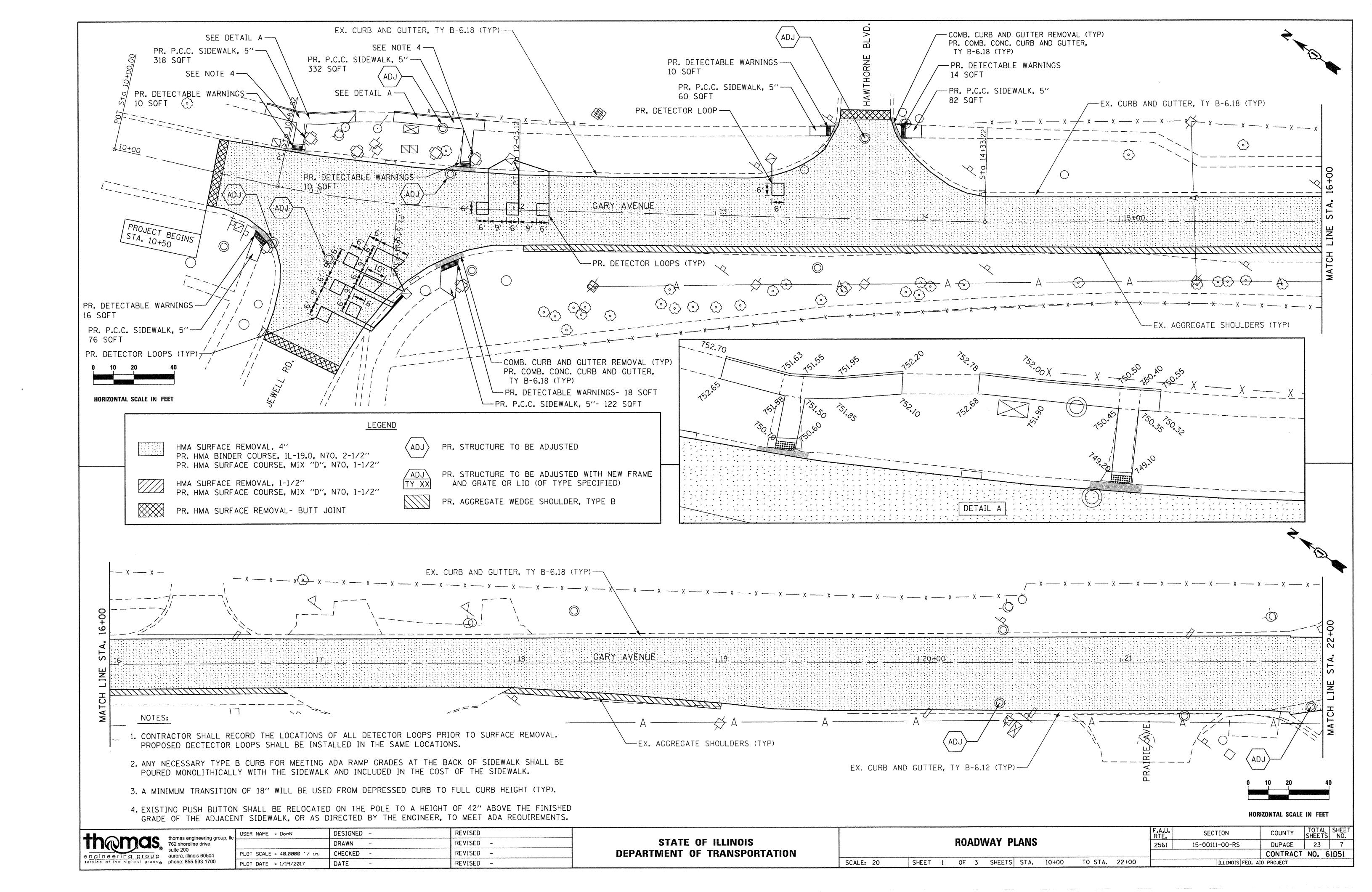
STA. 21+98 TO STA. 23+96 STA. 24+27 TO STA. 38+46

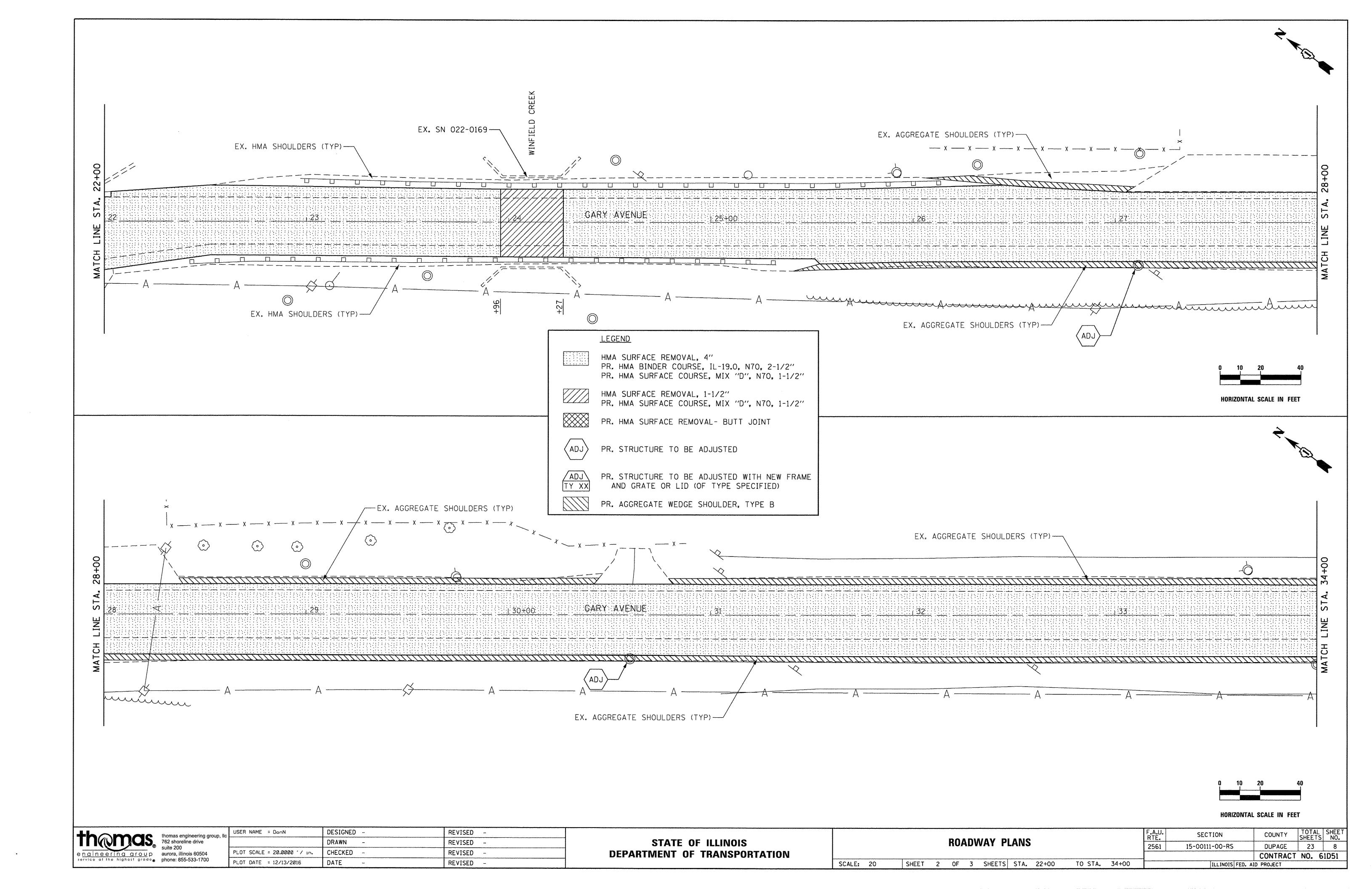
LEGEND

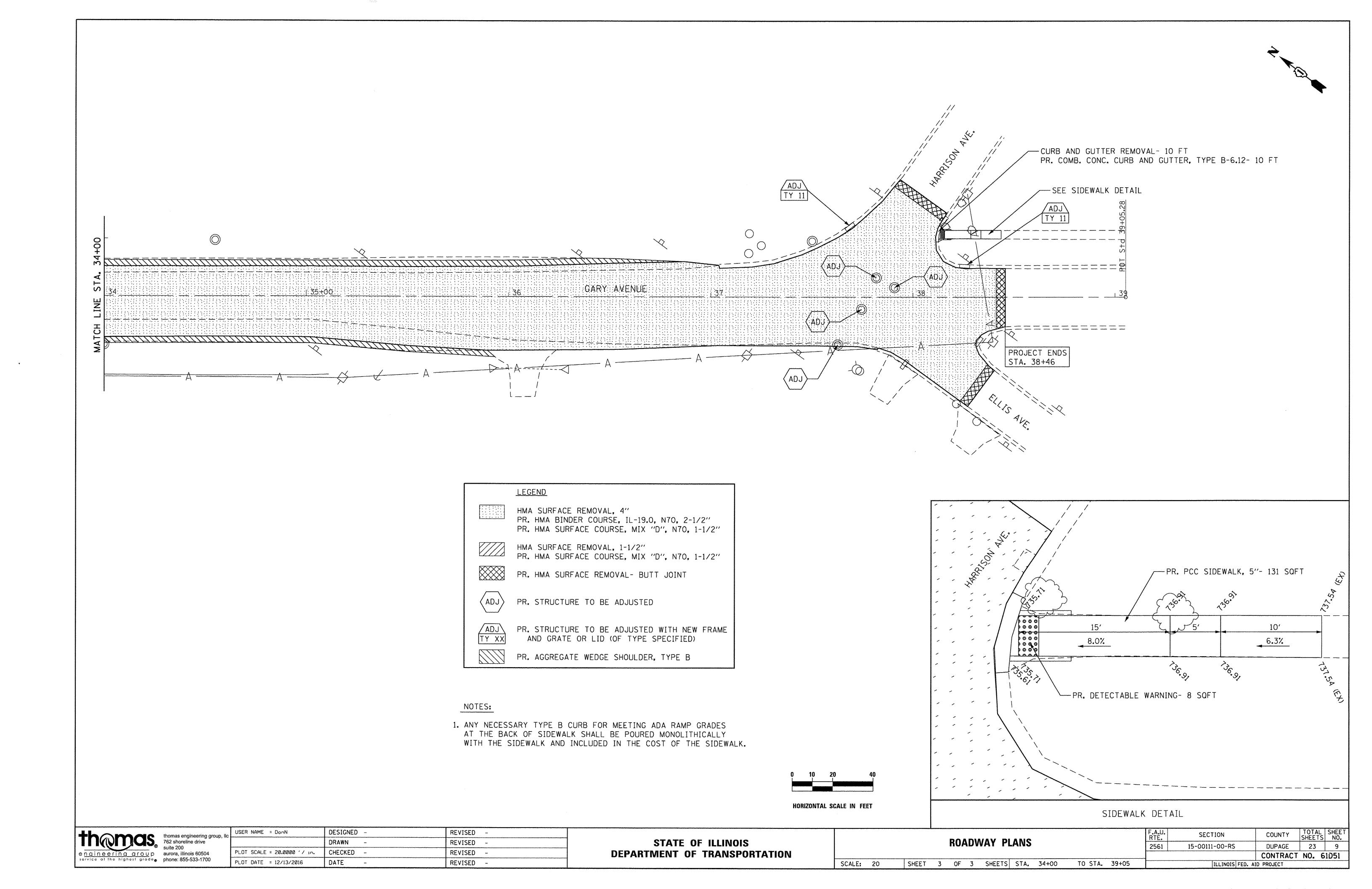
- (1) EX SUB-BASE GRAN MATL, THICKNESS VARIES
- 2 EX HMA PAVEMENT, 3"
- (3) EX HMA PAVEMENT, 10"
- (4) EX PCC PAVEMENT, 9"
- (5) EX HMA SURFACE COURSE
- 6 EX HMA SHOULDERS
- 7) EX AGGREGATE SHOULDER
- 8 EX PCC SIDEWALK
- (9) EX COMB. CONC. CURB AND GUTTER
- (10) EX BOX CULVERT
- (11) EX METAL SHEET PILING
- (12) EX GUARDRAIL

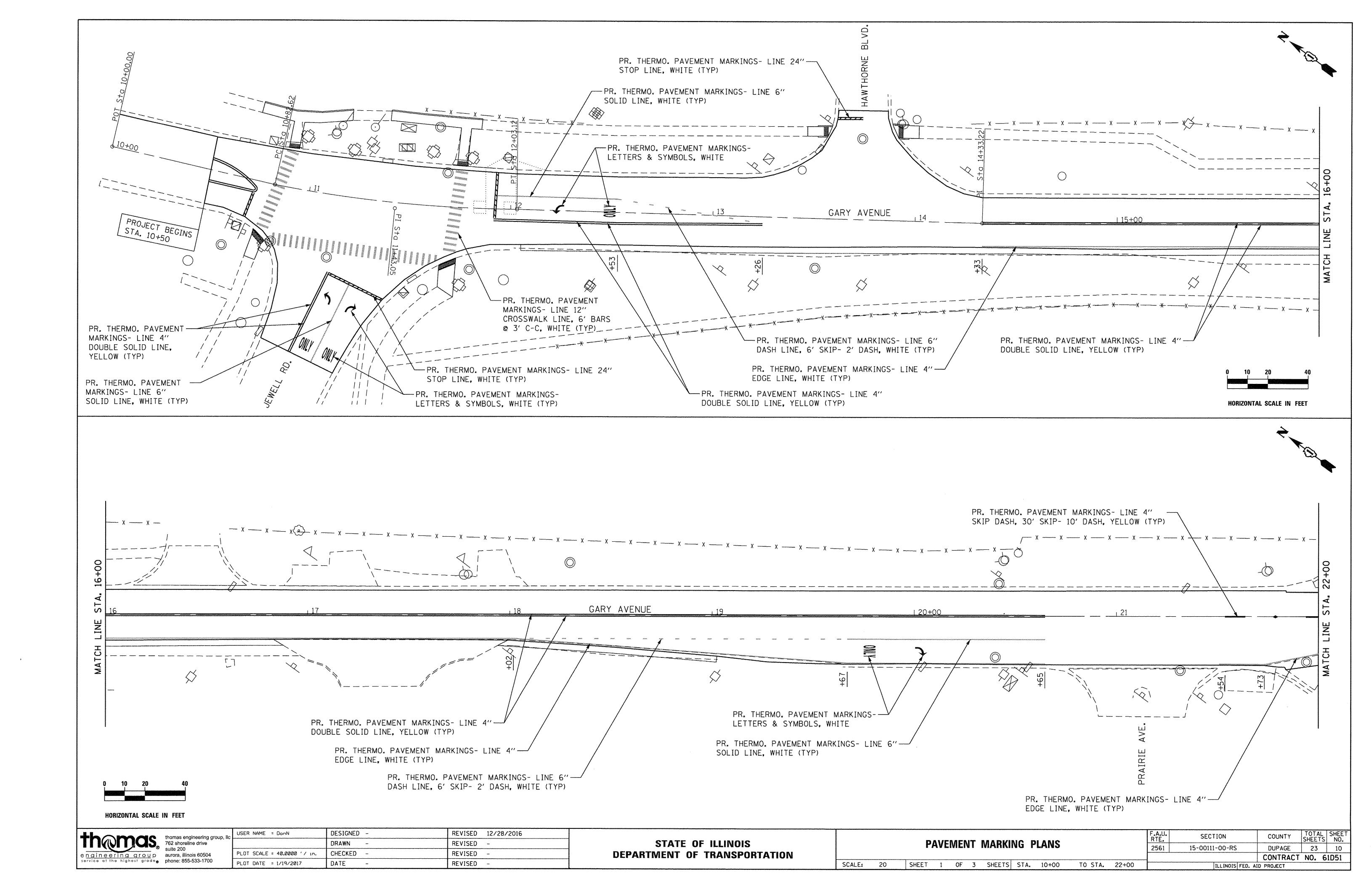
- (13) PR HMA SURFACE REMOVAL, 4"
- (14) PR HMA SURFACE REMOVAL, 1.5"
- PR. COMB. CURB AND GUTTER REMOVAL (SEE NOTE A)
- (16) PR. CLASS D PATCHES, 7" (SEE NOTE A)
- (17) PR BITUMINOUS MATERIALS (TACK COAT)
- (18) PR AGGREGATE WEDGE SHOULDER, TYPE B, 3"
- 9) PR HMA BINDER CSE, IL-19.0, N70, 2-1/2"
- (20) PR HMA SURF CSE, MIX "D", N70, 1-1/2"
- 1) PR COMB CONC CURB AND GUTTER, TY B-6.12 (SEE NOTE A)

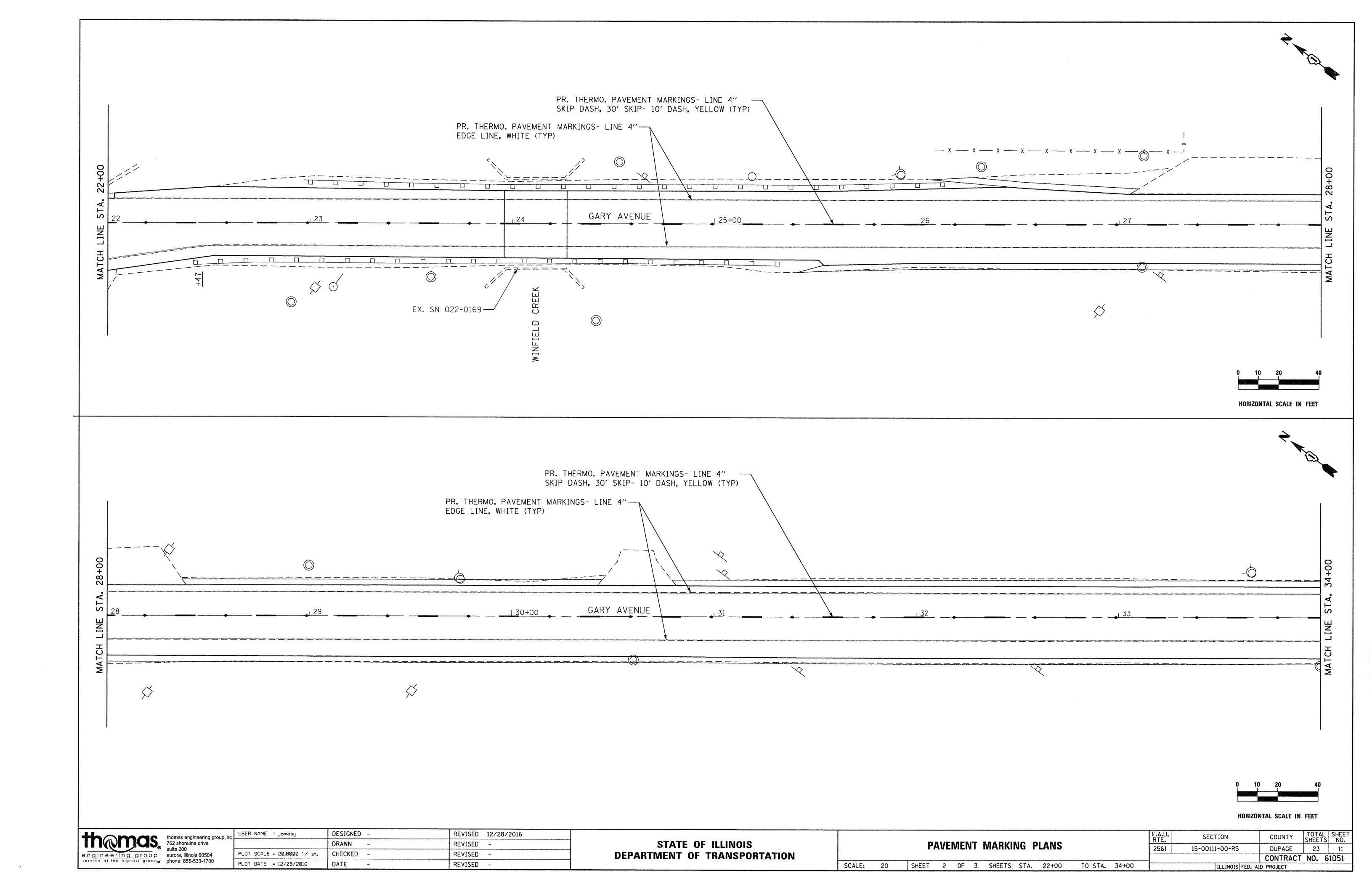
USER NAME = DonN DESIGNED REVISED SECTION COUNTY thomas engineering group, llo 762 shoreline drive **GARY AVENUE** STATE OF ILLINOIS DRAWN REVISED 23 6 2561 DUPAGE 15-00111-00-RS TYPICAL SECTIONS REVISED PLOT SCALE = 1.0000 ' / in. CHECKED -**DEPARTMENT OF TRANSPORTATION** engineering group aurora, illinois 60504 CONTRACT NO. 61D51 prvice at the highest grade phone: 855-533-1700 PLOT DATE = 12/13/2016 DATE REVISED SHEET 2 OF 2 SHEETS STA. SCALE: NTS TO STA. ILLINOIS FED. AID PROJECT

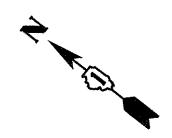


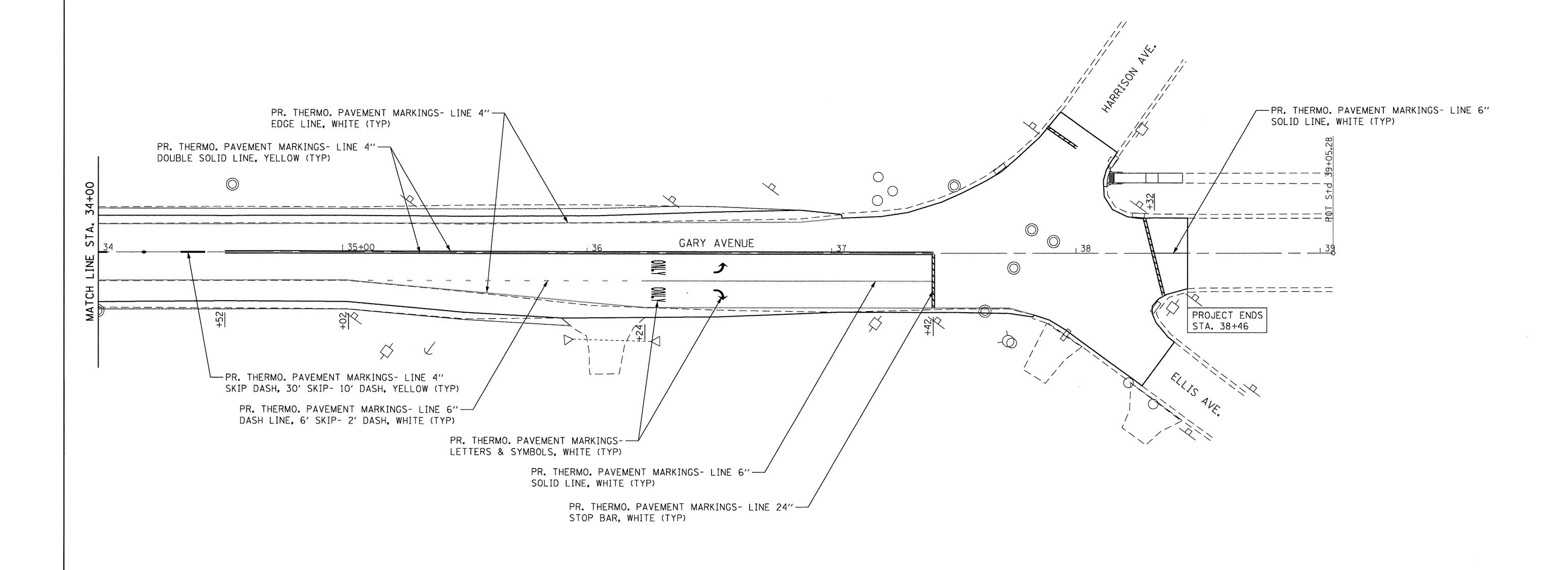


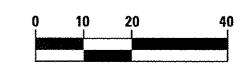












HORIZONTAL SC	ALE IN FEET
---------------	-------------

I	thomas	thomas engineering group, Ilc 762 shoreline drive suite 200 aurora, illinois 60504	USER NAME = DonN	DESIGNED -	REVISED -
	th@mas			DRAWN -	REVISED -
	e <u>ngineering grou</u> p		PLOT SCALE = 20.0000 '/ in.	CHECKED -	REVISED -
	service at the highest grado	phone: 855-533-1700	PLOT DATE = 12/13/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

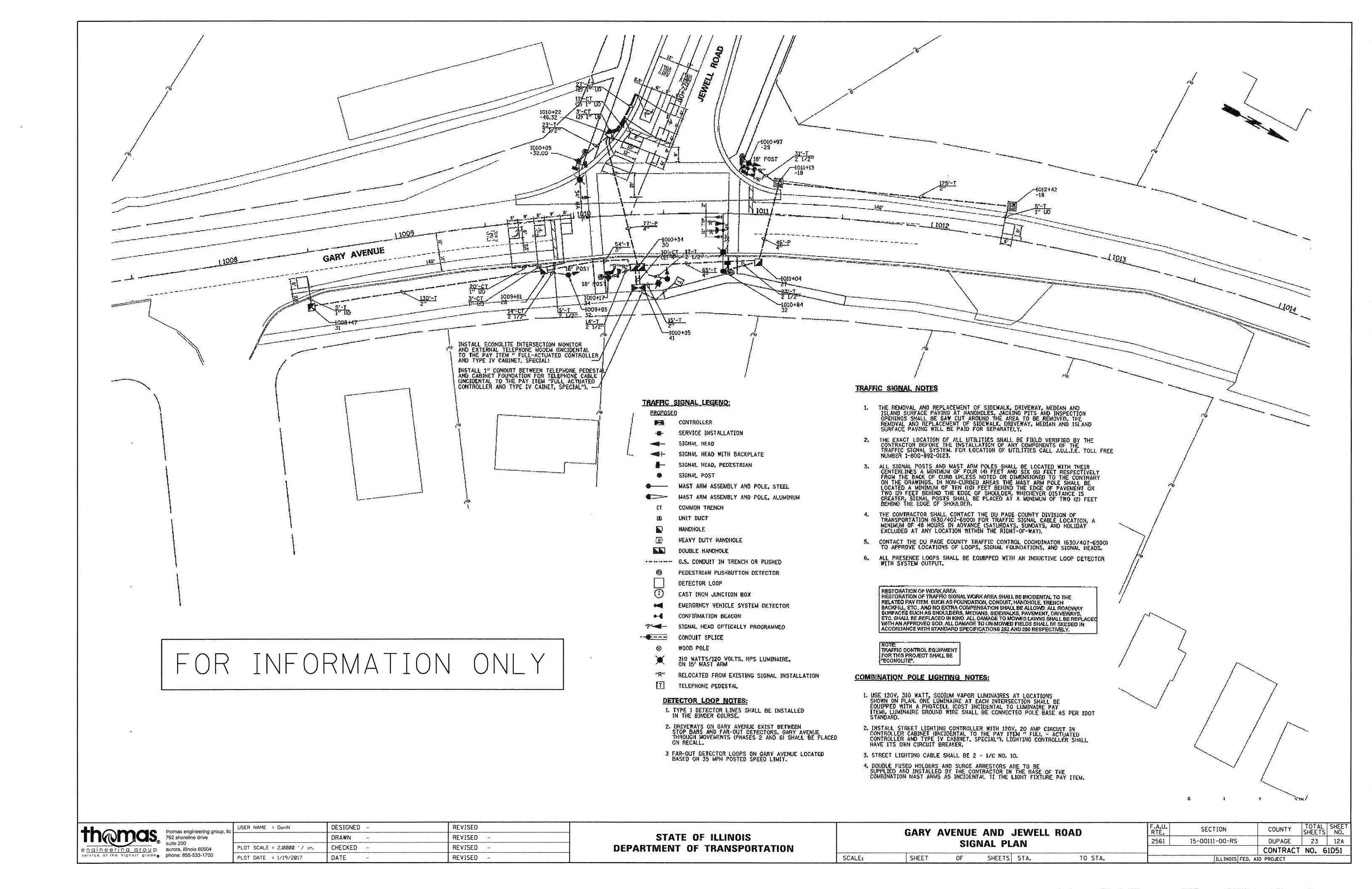
		-			1 ··	**************************************	NO B	A A A A			F.A.U. RTE.	S
		P	AVE	:IVIEN	I I	MARKII	NG P	LANS			2561	15-0
SCALE:	20	SHEET	3	OF	3	SHEETS	STA.	34+00	TO STA.	39+05		

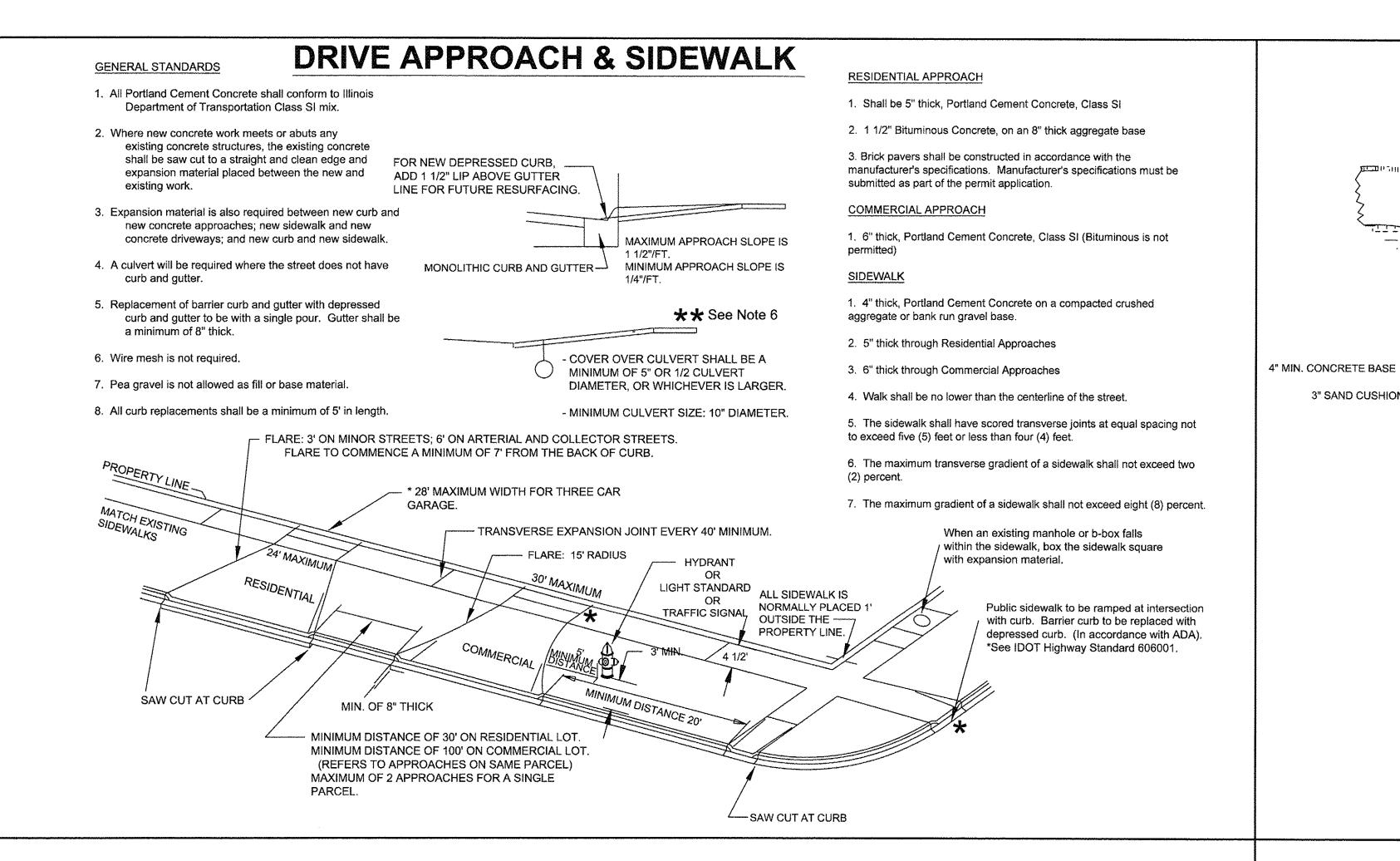
SECTION COUNTY TOTAL SHEET NO.

15-00111-00-RS DUPAGE 23 12

CONTRACT NO. 61D51

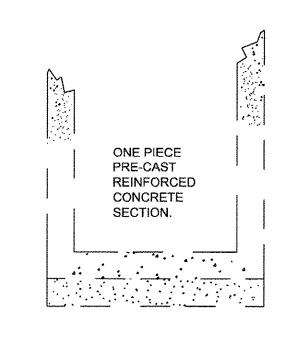
| ILLINOIS | FED. AID PROJECT





TRANSITION CURB AT INLET OR C.B.

- 1. A MAXIMUM ADJUSTMENT OF 8" USING 2 (TWO) RUBBER RINGS IS ALLOWED. A MINIMUM OF 1 (ONE) RUBBER RING SHOULD BE INSTALLED BETWEEN THE FRAME AND STRUCTURE
- 2. BRICKS ARE NOT PERMITTED FOR ADJUSTMENTS.
- (A)////// BUTYL MASTIC 3. FOR ROLLED AND/OR BARRIER CURB USE NEENAH R-3010 OR EJIW 7045Z FRAME, 7040M1 GRATE AND 7050T1 CURB BACK OR US FOUNDRY 5132.
 - 4. ALL JOINTS BETWEEN BARREL SECTION, RISER, AND CASTING SHALL BE SEALED WITH FLEXIBLE BUTYL MASTIC MATERIAL 2-1/4" WIDE AND 3/8" THICK OR ENGINEER APPROVED SUBSTITUTE. MORTAR IS NOT ALLOWED.
 - 5. THE GRATE SHALL BE A BICYCLE SAFETY GRATE.
 - 12" MIN. 6. REFERENCE: STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, MAY 1996, SECTION 33.
 - 7. ANY SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER
 - 8. 2' INSIDE DIAMETER TO BE USED AT END OF PIPE RUN ONLY. IN ALL INSTANCES WHERE 2 OR MORE PIPES ENTER OR EXIT C.B., 4' INSIDE DIAMETER STRUCTURE MUST BE USED.
 - 9. MINIMUM PIPE DIAMETER IS 12" ON 2' STRUCTURE.
 - 10. ANY NEW FRAME BACKS MUST HAVE STAMPED FISH SYMBOL PER NPDES REQUIREMENTS.



BICYCLE SAFETY GRATE

···· 2.0' ·····

CONCRETE STRUCTURE

ONE PIECE 3"

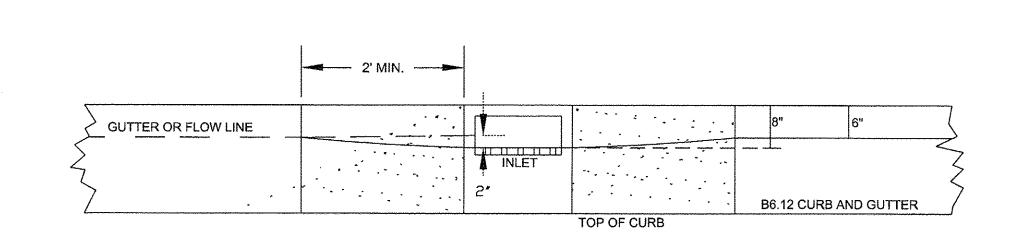
3" SAND CUSHION

MINIMUM PRECAST

BACK OF CURB

MUST BE BOLTED

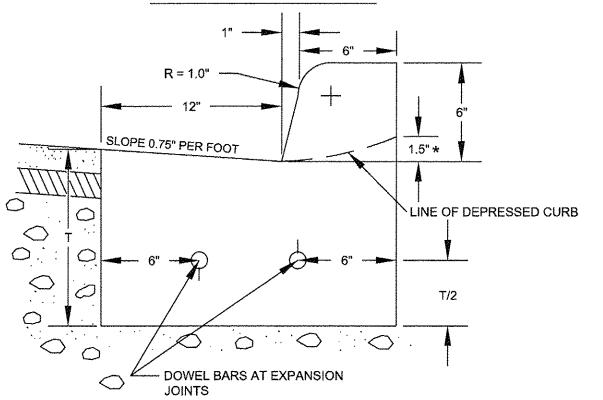
2' MIN.



BARRIER CURB AND GUTTER

- T = THICKNESS OF PAVEMENT * = ½" AT ADA RAMP LOCATIONS
- 1. TWO NO.6 STEEL DOWEL BARS WITH CAPS TO BE USED AT ALL EXPANSION JOINTS
- 2. CONSTRUCTION JOINTS AT 25 ft. INTERVALS.
- 3. THREE 3/8" RE-BARS AT ALL TRENCH CROSSINGS. BARS TO EXTEND TWO FEET BEYOND EDGE OF TRENCH AND HAVE A MINIMUM LENGTH OF 10 FT.
- 4. THE BASE COURSE WILL BE OF A DEPTH SUFFICIENT TO BRING THE CURB AND GUTTER TO THE PROPOSED GRADE.
- 5. THE BASE COURSE LOCATED UNDER THE CURB AND GUTTER WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
- 6. THE HEIGHT OF DEPRESSED CURB ADJACENT TO ADA RAMP LOCATIONS SHALL BE 1/2".
- 7. SEE STANDARD 606001-06.

TYPE B 6.12



SLOPE 0.75" PER FOOT 1.5" * LINE OF DEPRESSED CURB 0 2 \Diamond 0. $\overline{}$ \cdot \bigcirc - DOWEL BARS AT EXPANSION JOINTS

TYPE M 3.12

engineering group aurora, illinois 60504 ervice at the highest grade phone: 855-533-1700

	PLOT DATE = 1/19/2017	DATE -	REVISED -
	PLOT SCALE = 2.0000 '/ in.	CHECKED -	REVISED -
		DRAWN -	REVISED -
С	USER NAME = DonN	DESIGNED -	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

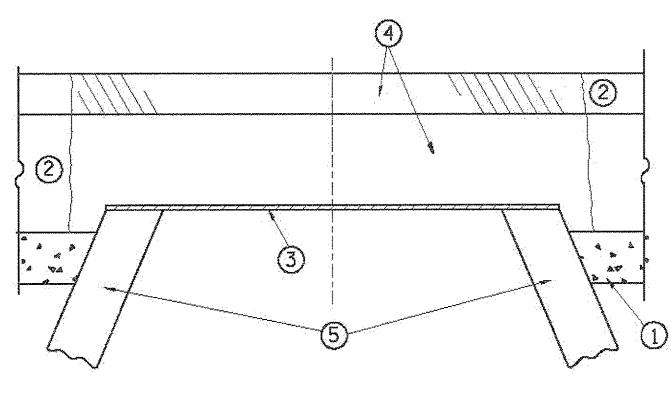
WHE	ATON	CONSTRUCTION	DETAILS	

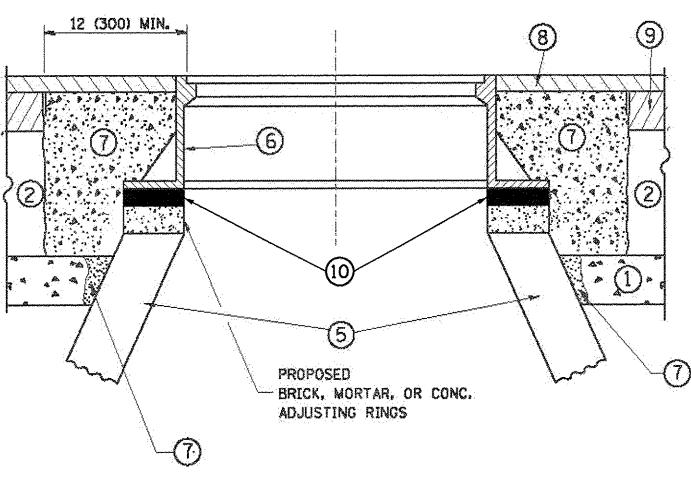
TO STA.

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA.

	ILLINOIS FED. A	VID PROJECT		
		CONTRACT	NO. 6	1D51
2561	15-00111-00-RS	DUPAGE	23	13
.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

FRAMES AND LIDS ADJUSTMENT WITH MILLING





- 1 SUB-BASE GRANULAR MATERIAL
- (2) EXISTING PAVEMENT
- (3) 36" DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 5 EXISTING STRUCTURE
- (6) FRAME AND LID (SEE NOTES)
- (7) CLASS PP-1 CONCRETE
- 8 PROPOSED HMA SURFACE COURSE
- 9 PROPOSED HMA BINDER COURSE
- PROPOSED ADJUSTMENT RISER RING
 RUBBER (WHEATON)
 PRECAST CONCRETE (DUPAGE)

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12" 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" DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2" THICK HMA SURFACE

STAGE 2 (AFTER PAVEMENT MILLING)

MIX APPROVED BY THE ENGINEER.

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE

ELEVATION. A MINIMUM OF ONE RUBBER ADJUSTMENT RISER RING SHALL BE USED.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

• UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

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:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR AS "STRUCTURE TO BE ADJUSTED," OF THE TYPE OF STRUCTURE SPECIFIED.

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

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.

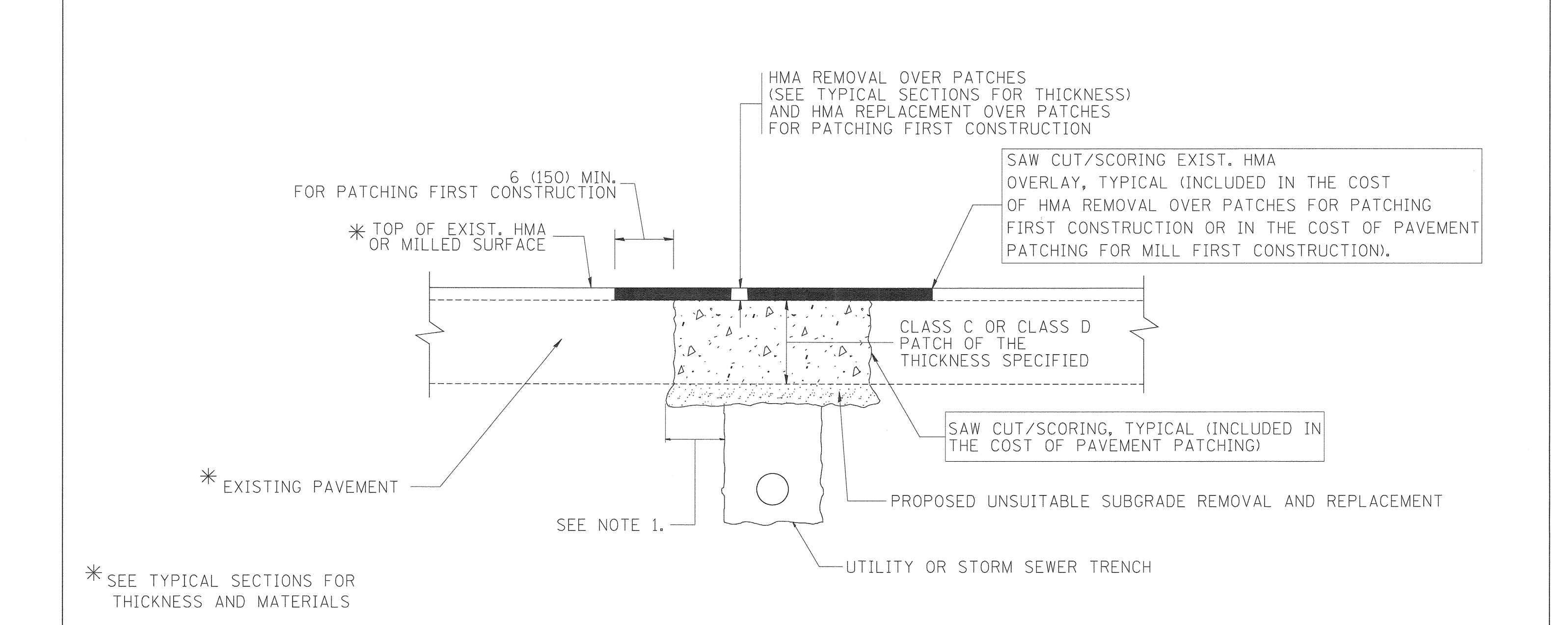
IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

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 WILLNOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

thomas engineering groves thomas engineering groves thomas engineering groves thomas engineering groves and the highest grades thomas engineering groves and the highest grades thomas engineering groves and the groves and thomas engineering groves and thomas engineering groves and the groves

	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
WHEATON CONSTRUCTION DETAILS	2561	15-00111-00-RS	DUPAGE	23	14
			CONTRAC	T NO. 6	1D51
SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		



NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

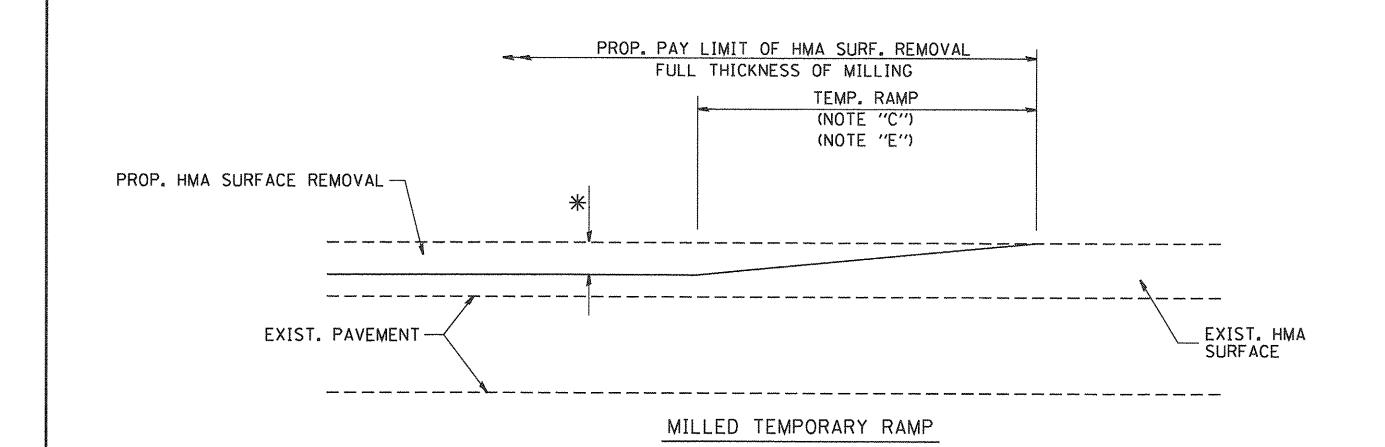
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST $4/_2$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

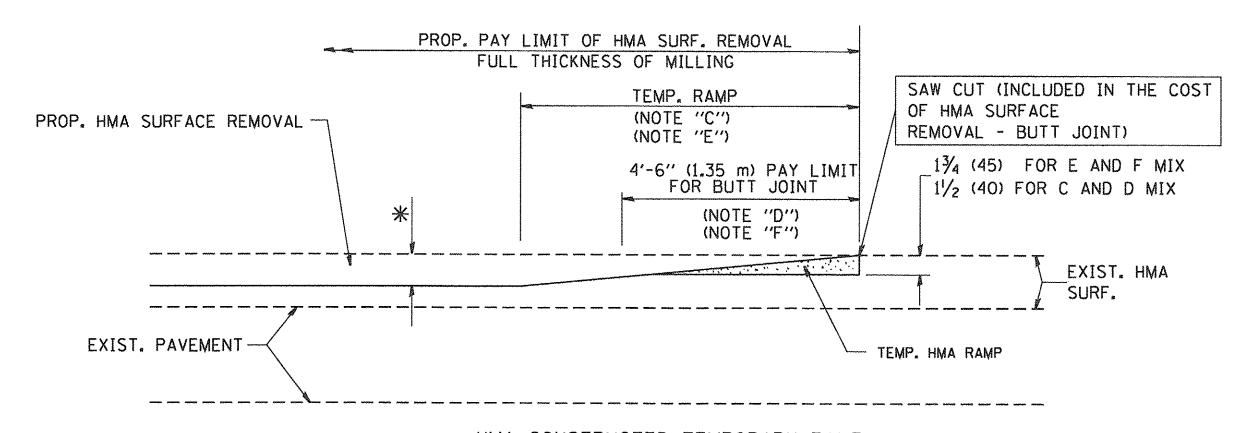
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED -	A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.U,	SECTION	COUNTY	OTAL SHEET
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED -	R. BORO 01-01-07	STATE OF ILLINOIS		2561	15-00111-00-RS	DUPAGE	23 15
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	2301	BD400-04 (BD-22)		NO. 61D51
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED -	K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED.	ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT	



OPTION 1

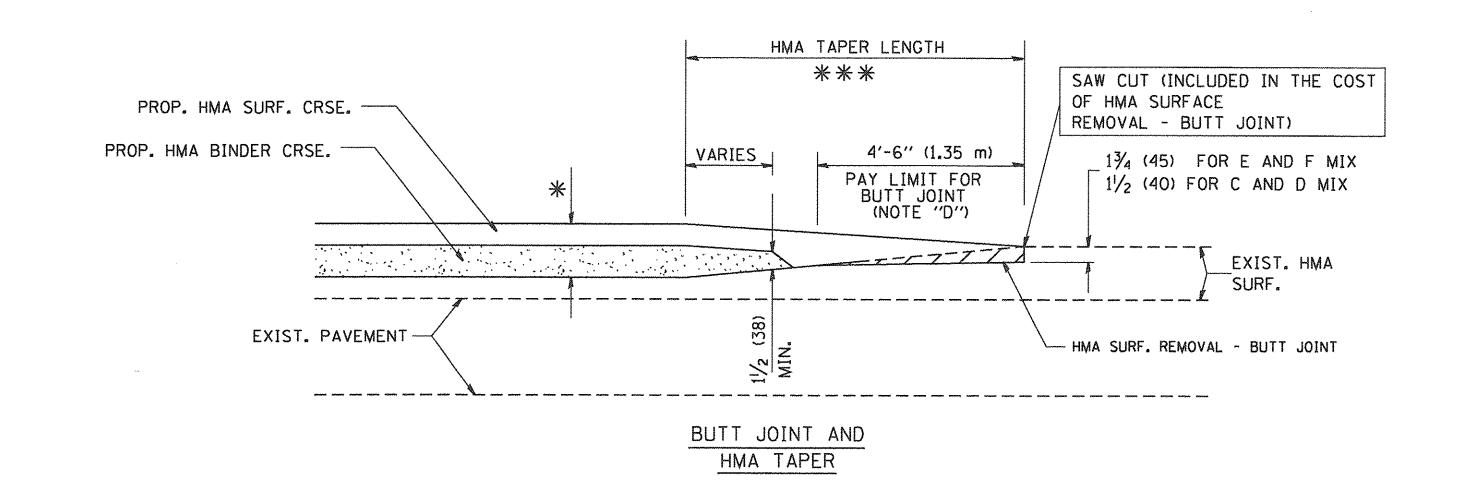
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)



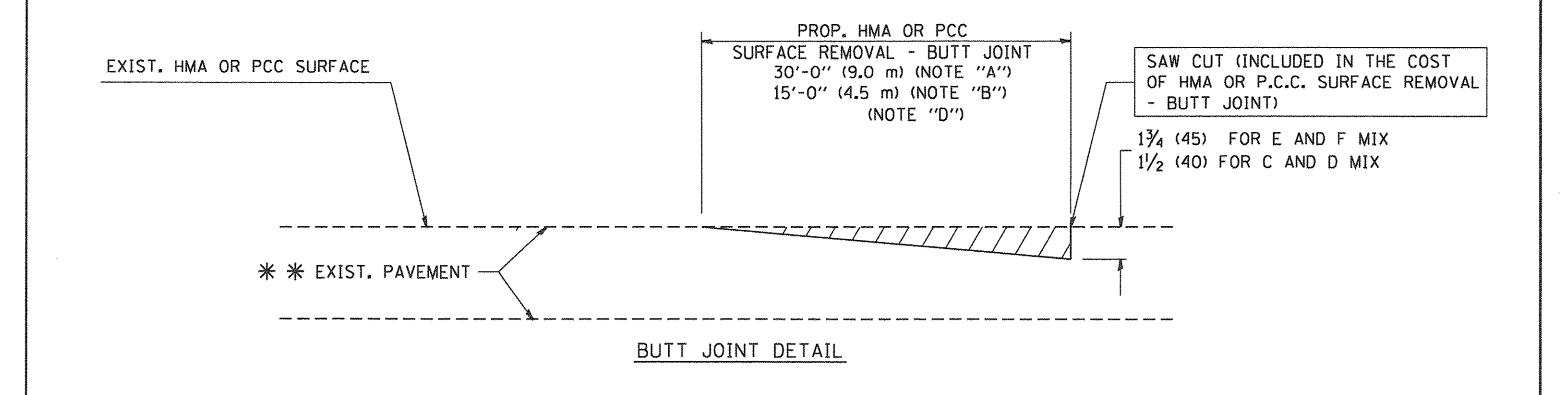
HMA CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

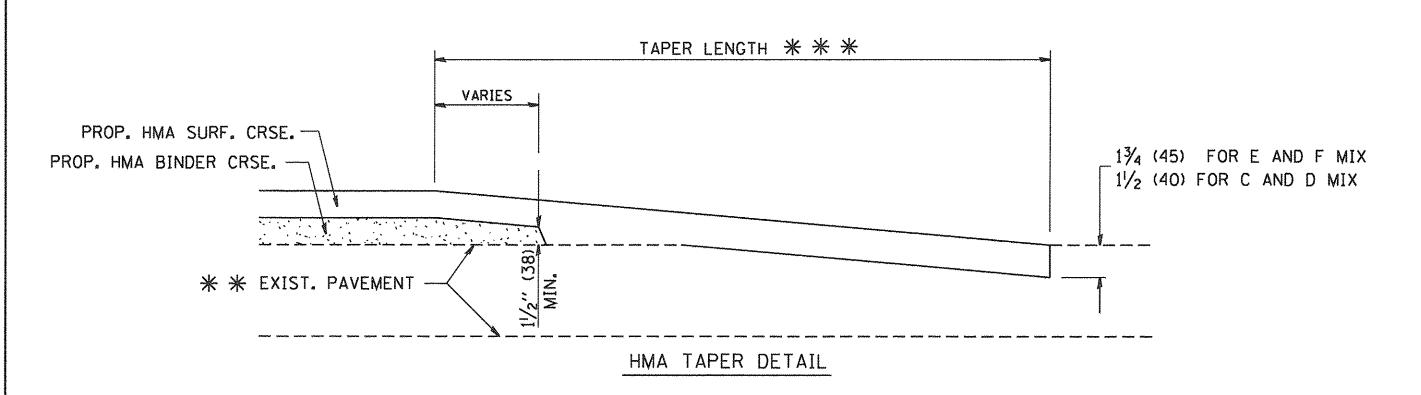
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

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

BASIS OF PAYMENT:

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

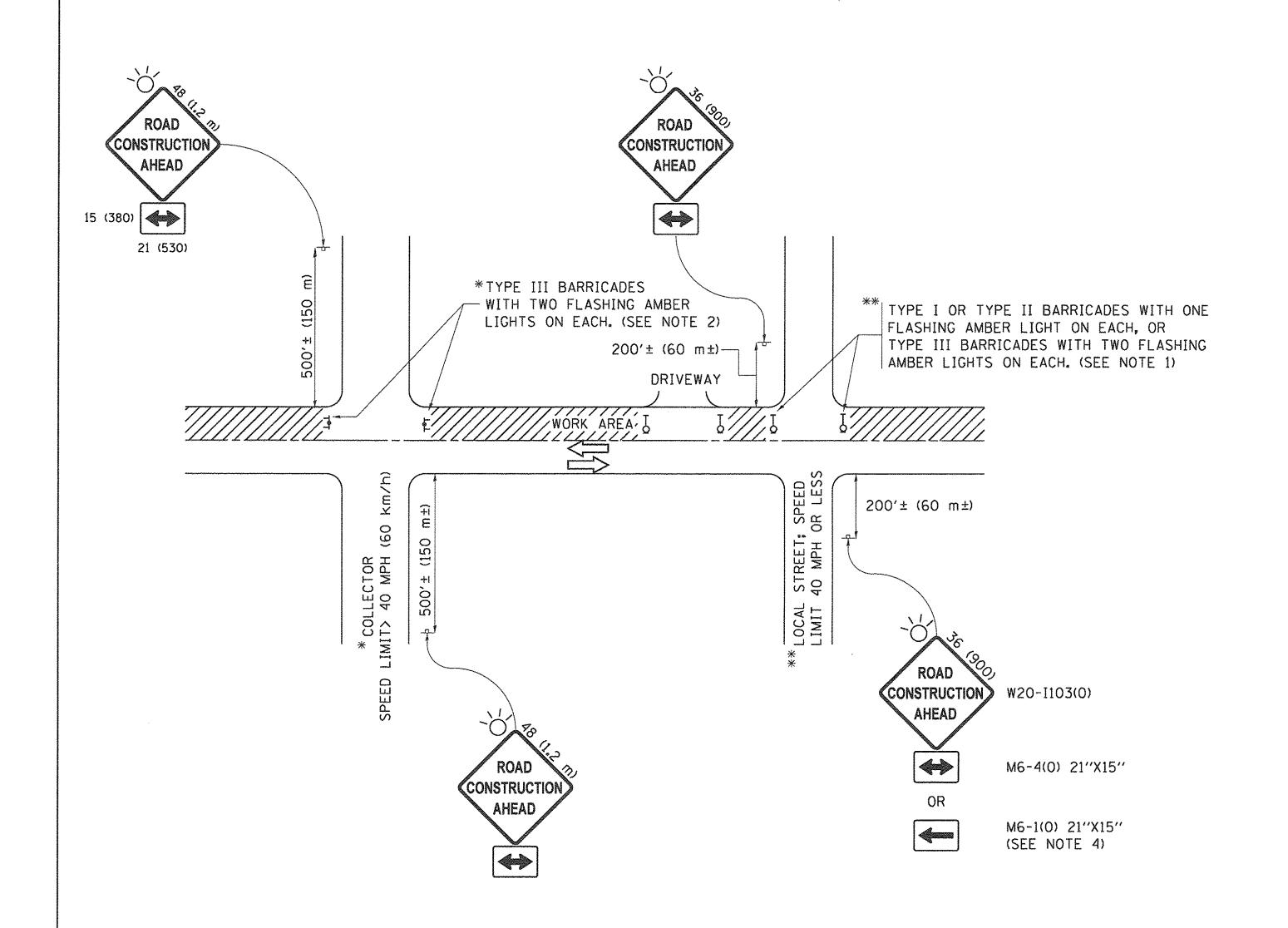
SCALE: NONE

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	
W:\diststd\22x34\bd32.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01	DEPARTMENT OF TRANSPO
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07	

PORTATION

BUTT JOINT AND		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HMA TAPER DETAILS		2561	15-00111-00-RS	DUPAGE	23	16
men in the second of the secon			BD400-05 BD32	CONTRACT	NO. 61	D51
SHEET NO. 1 OF 1 SHEETS STA	ATZ OT	EED DO	D DIST NO 1 ILLINOIS FED A	IN DONIECT	······································	



NOTES:

- 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:
 - d) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER 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:
 - 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 4. 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).

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

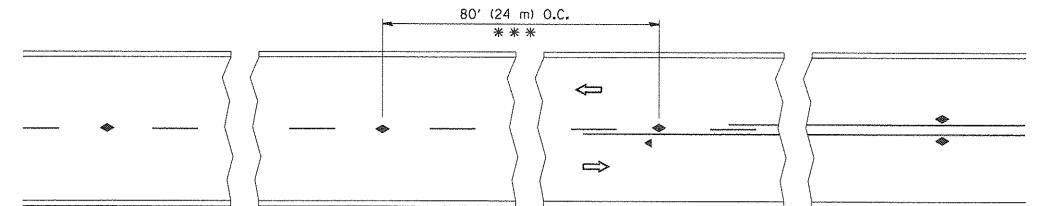
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\ILØ84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	puments\IDOT Offices\District 1\Projects\Dist	S tORAWM \CADData\CADsheets\tc10.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE ≈ 50.000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

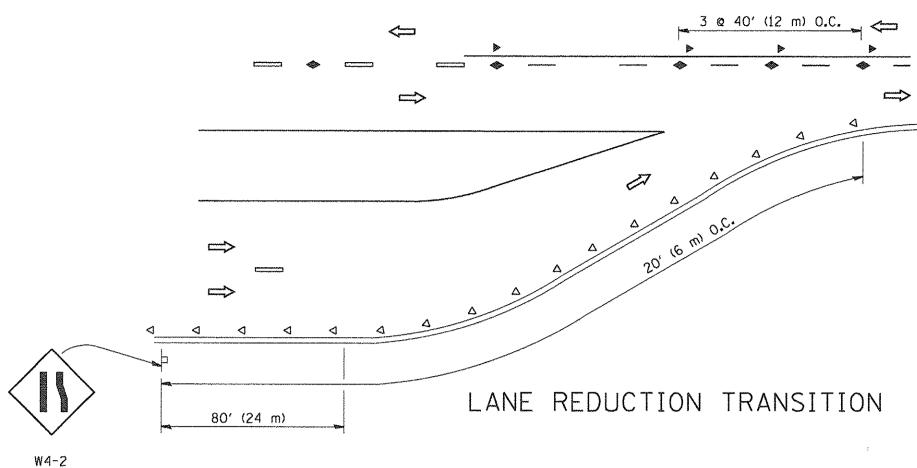
_		TRAFFIC C	ONTROL A	ND PROTECTIO	N FOR	F./ RT
Total State of Control		SIDE ROADS,	INTERSEC	TIONS, AND DR	IIVEWAYS	25
-	SCALE: NONE	SHEET 1	OF 1 S	SHEETS STA.	TO STA,	

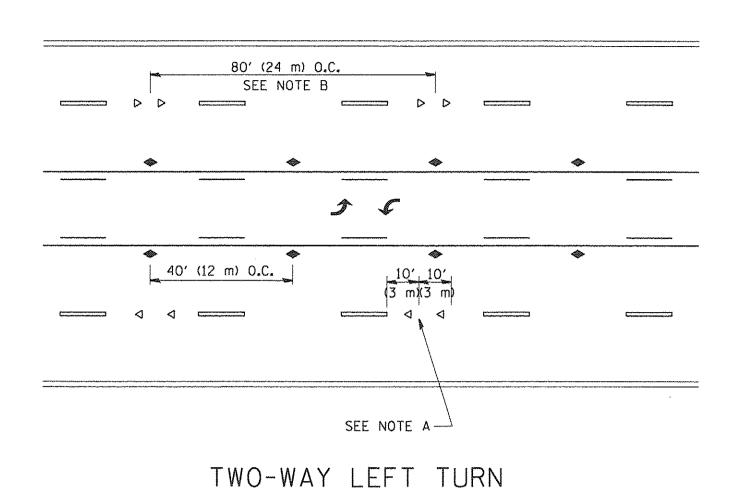
		ILL INOIS FED. A	VID PROJECT		
-		TC-10	CONTRACT	NO. 6	31D51
	2561	15-00111-00-RS	DUPAGE	23	17
	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.



* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY





80' (24 m) 0.C.

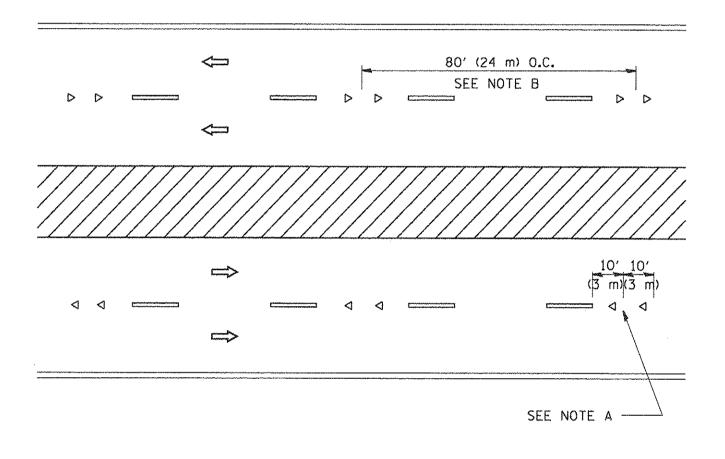
SEE NOTE B

40' (12 m) 0.C.

3 m) (3 m)

SEE NOTE A

MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

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

DESIGN NOTES

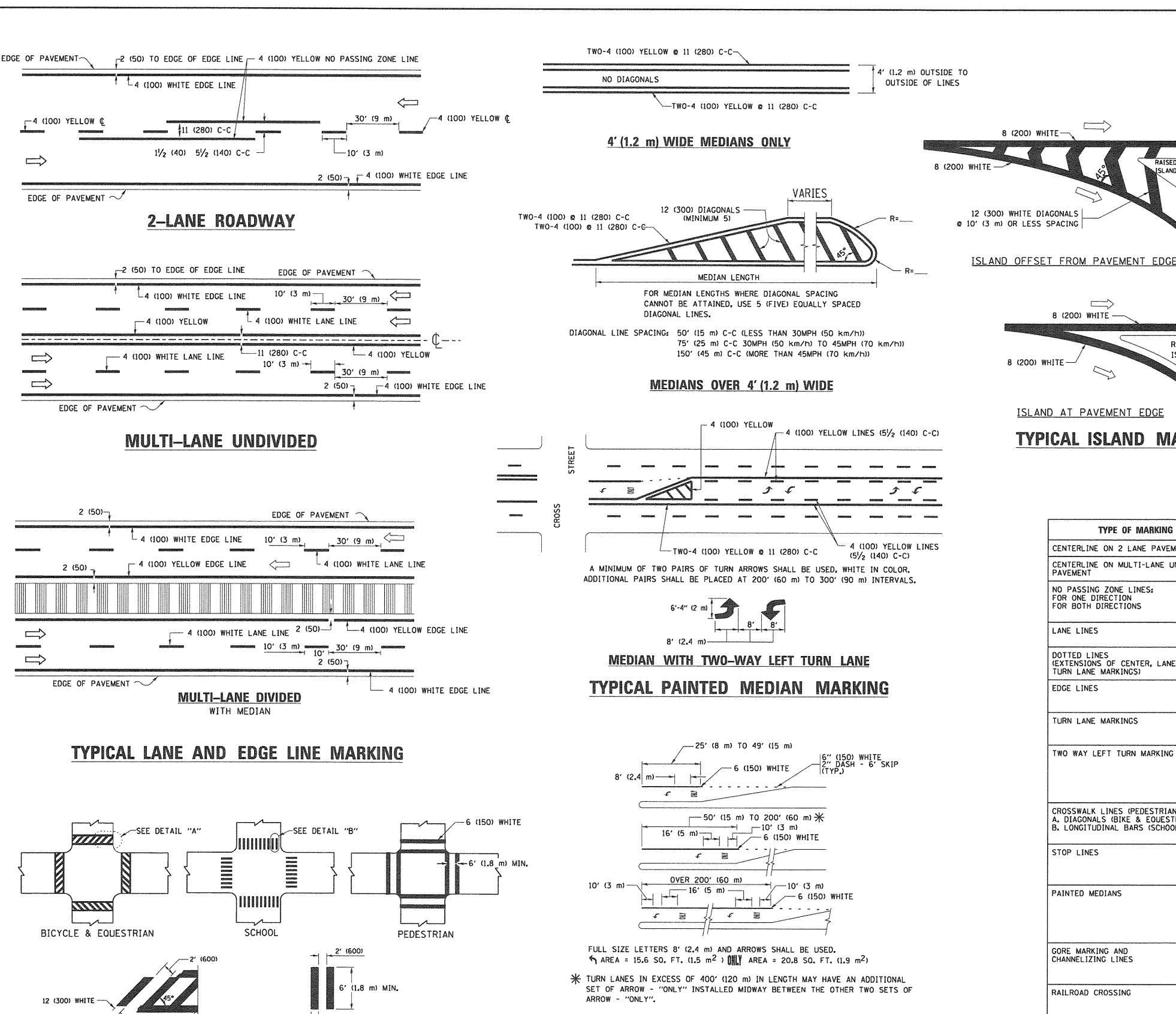
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.

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

LEFT TURN

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

FILE NAME =	USER NAME = leyse	DESIGNED -	REVISED -T. RAMMACHER 09-19-94			Typias amelastiasa	F.A.U. SECTION	COUNTY TOTAL SHEET SHEET NO.
c:\pw_work\pwidot\leysa\d0108315\tci1.dgn		DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS		TYPICAL APPLICATIONS	2561 15-00111-00-RS	DUPAGE 23 18
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED	REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	TC_11	CONTRACT NO 61D51
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FE	ED. AID PROJECT



CENTERLINE ON 2 LANE PAVEMENT 4 (100) SKIP-DASH CENTERLINE ON MULTI-LANE UNDIVIDED 2 @ 4 (100) SOLID NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS 2 @ 4 (100) SOLID 4 (100) 5 (125) ON FREEWAYS SKIP-DASH SKIP-DASH LANE LINES DOTTED LINES (EXTENSIONS OF CENTER, LANE OR SAME AS LINE BEING EXTENDED SKIP-DASH TURN LANE MARKINGS) EDGE LINES 4 (100) 6 (150) LINE: FULL SIZE LETTERS & TURN LANE MARKINGS SOLID SYMBOLS (8' (2.4m)) SKIP-DASH AND SOLID TWO WAY LEFT TURN MARKING 2 @ 4 (100) EACH DIRECTION IN PAIRS 8' (2.4m) LEFT ARROW CROSSWALK LINES (PEDESTRIAN) 2 @ 6 (150) A. DIAGONALS (BIKE & EQUESTRIAN) 12 (300) @ 45° SOLID B. LONGITUDINAL BARS (SCHOOL) 12 (300) @ 90° STOP LINES 24 (600) SOLID PAINTED MEDIANS 2 @ 4 (100) WITH SOLID 12 (300) DIAGONALS NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS GORE MARKING AND 8 (200) WITH 12 (300) SOLID CHANNELIZING LINES DIAGONALS @ 45° RAILROAD CROSSING 24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m LETTERS: 16 (400) LINE FOR "X" TYPICAL LEFT (OR RIGHT) TURN LANE SHOULDER DIAGONALS (REQUIRED FOR 12 (300) @ 45° SOLID SHOULDERS > 8') U TURN ARROW SOLID SEE DETAIL TYPICAL TURN LANE MARKING 2 ARROW COMBINATION SEE DETAIL SOLID LEFT AND U TURN

8 (200) WHITE-

8 (200) WHITE -

8 (200) WHITE -

ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING

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

SCALE: NONE

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

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))

75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h))

FILE NAME =	USER NAME = footemj	DESIGNED – EVERS	REVISED	-	C. JUCIUS 09-09-09
pw:\\ILØ84EBIDINTEG.:lll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	St ORAWM \CADData\CADsheets\tc13.dgn	REVISED	-	C. JUCIUS 07-01-13
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED	_	C. JUCIUS 12-21-15
Default	PLOT DATE = 4/13/2016	DATE - 03-19-90	REVISED		C. JUCIUS 04-12-16

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

12 (300) WHITE

DETAIL "B"

6 (150) WHITE

DETAIL "A"

THE ROAD WHICH IT CROSSES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DISTRICT ONE TYPICAL PAVEMENT MARKINGS						SECTION	COUNTY	SHEET NO.	
							15-00111-00-RS	DUPAGE	23	19
							TC-13	CONTRACT	T NO. 61D51	
	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

6'-4" (1930)

36 40 (910) (1020)

12 (300)

64 (1620)

COMBINATION

LEFT AND U-TURN

5'-4" (1620)

√ 32 R (810)

U-TURN

YELLOW

YELLOW

YELLOW YELLOW

WHITE WHITE

YELLOW-LEFT WHITE-RIGHT

WHITE

YELLOW

WHITE

WHITE

WHITE

WHITE

YELLOW:

WHITE:

WHITE

WHITE

WHITE

WHITE - RIGHT

YELLOW - LEFT

TWO WAY TRAFFIC

ONE WAY TRAFFIC

WHITE

COLOR

40 (1020)

PATTERN

___ 2 (50)

WIDTH OF LINE

D(FT)

345

425

500

580

665

750

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR

SPACING / REMARKS

GREATER OR WHEN SPECIFIED IN PLANS.

10' (3 m) LINE WITH 30' (9 m) SPACE

11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN

10' (3 m) LINE WITH 30' (9 m) SPACE

SEE TYPICAL TURN LANE MARKING DETAIL

10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE

SEE TYPICAL CROSSWALK MARKING DETAILS.

POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE

11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.

30' (9 m) C-C (OVER 45MPH (70 km/h))

50' (15 m) C-C (LESS THAN 30MPH (50 km/h))

150' (45 m) C-C (OVER 45MPH (70 km/h))

SEE STATE STANDARD 780001

"X"=54.0 SQ. FT. (5.0 m²)

16.3 SF

30.4 SF

AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH

SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL

NOT LESS THAN 6' (1.8 m) APART 2' (600) APART

PLACE 4' (1,2 m) IN ADVANCE OF AND

PARALLEL TO CROSSWALK, IF PRESENT.

OTHERWISE, PLACE AT DESIRED STOPPING

2' (600) APART

OUTLINE MEDIANS IN YELLOW

51/2 (140) C-C FROM SKIP-DASH CENTERLINE

11 (280) C-C

SAME AS LINE BEING 2' (600) LINE WITH 6' (1.8 m) SPACE EXTENDED

SPEED LIMIT

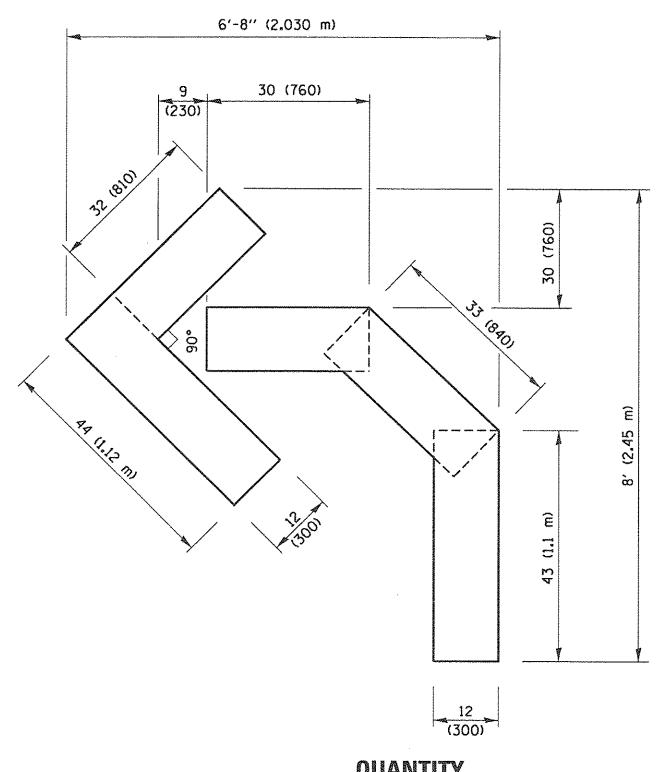
30

35

40

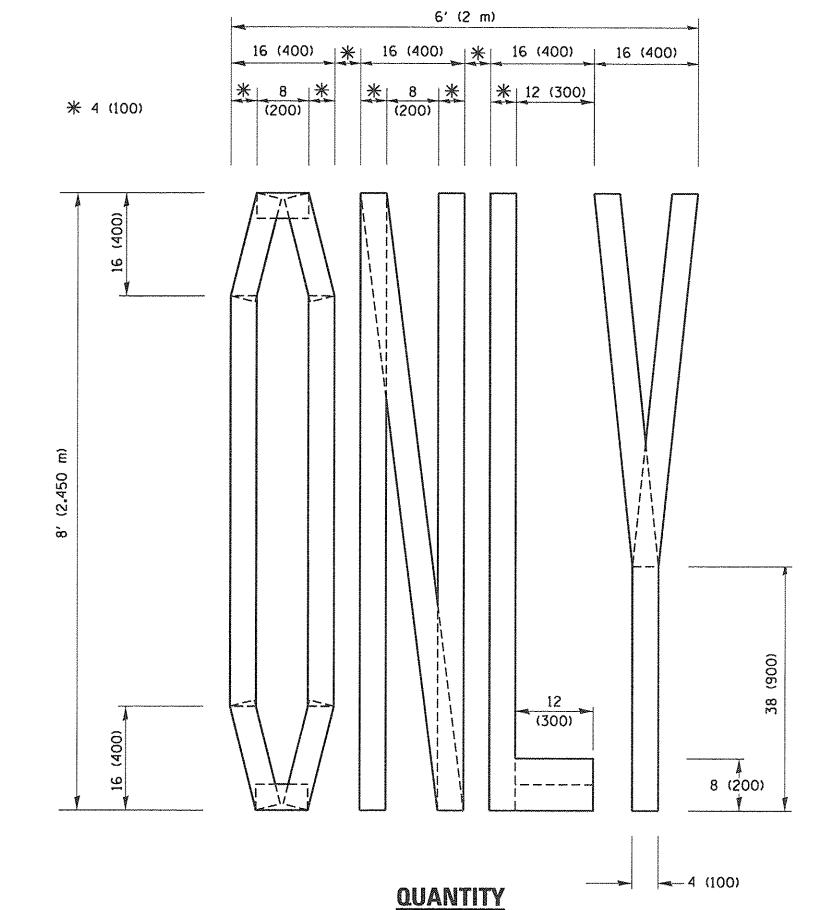
50

55

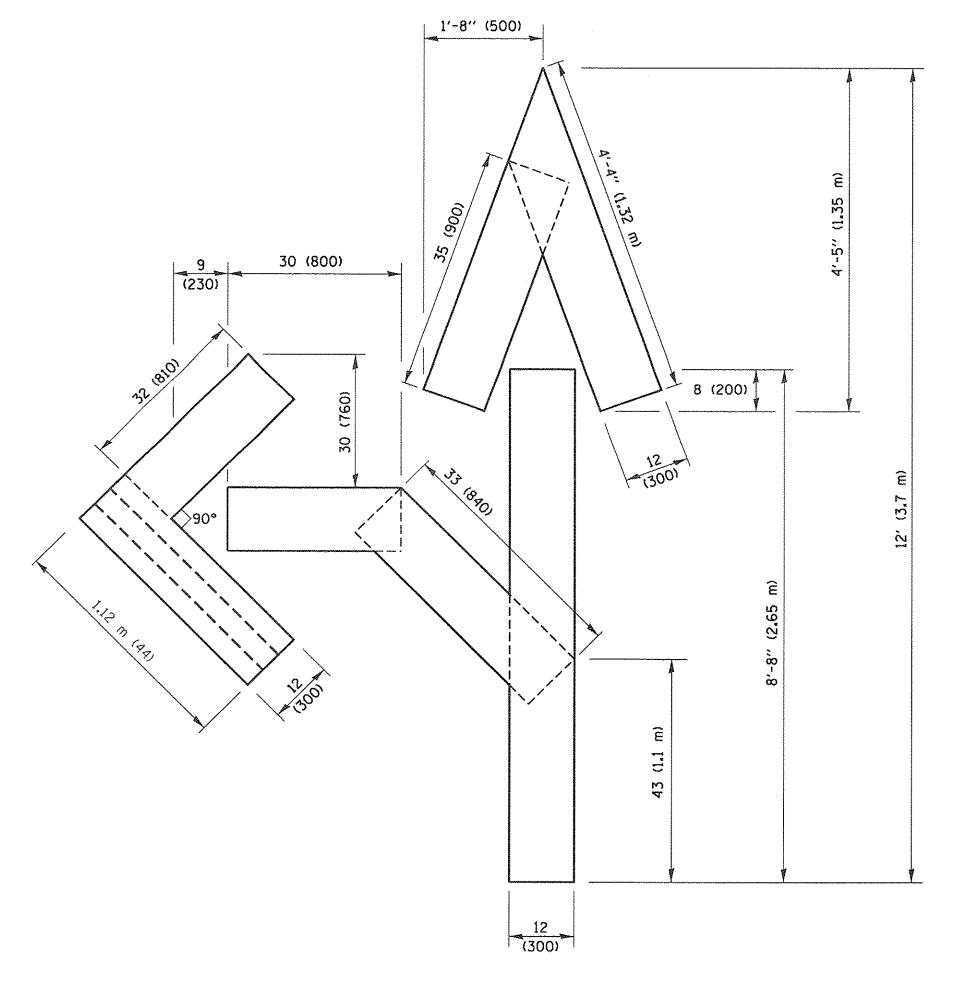


<u>QUANTITY</u>

4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)



4 (100) LINE = 64.1 ft. (19.5 m) 21.4 sq. ft. (1.99 sq. m)

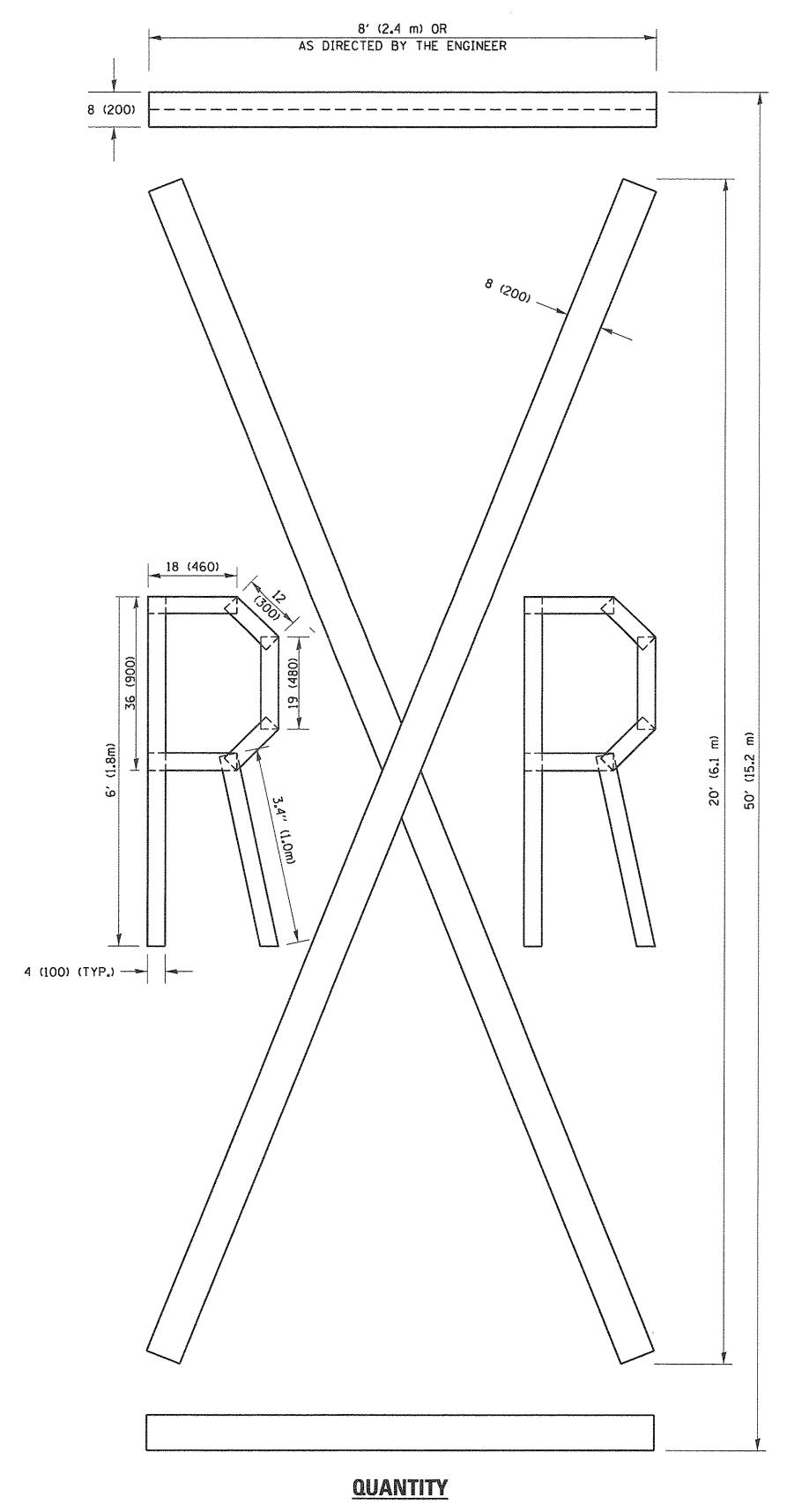


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m) 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

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

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED	-T. RAMMACHER 03-02-98
pw:\\ILØ84EBIDINTEG.:1ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	S GRAWM \CADData\CADsheets\tc16.dgn	REVISED	-E. GOMEZ 08-28-00
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED	-E. GOMEZ 08-28-00
	PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED	- A. SCHUETZE 09-15-16
			According to the second	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SHORT	TERM	P/	WE	ME	NT	MARKING	LETTERS	AND	SYMBOLS	
 SCALE: NONE		SHEET	NO.	1	OF	1	SHEETS	STA.		TO STA.	

F.A.U. SECTION COUNTY TOTAL SHEET NO. 2561 15-00111-00-RS DUPAGE 23 20

CONTRACT NO. 61D51

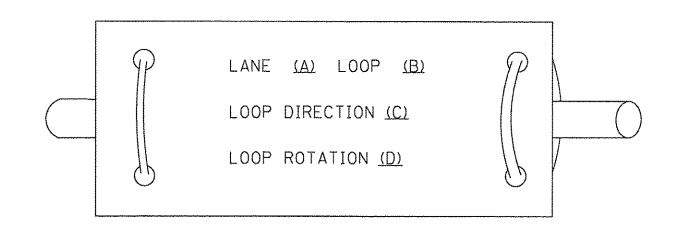
TC-16

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

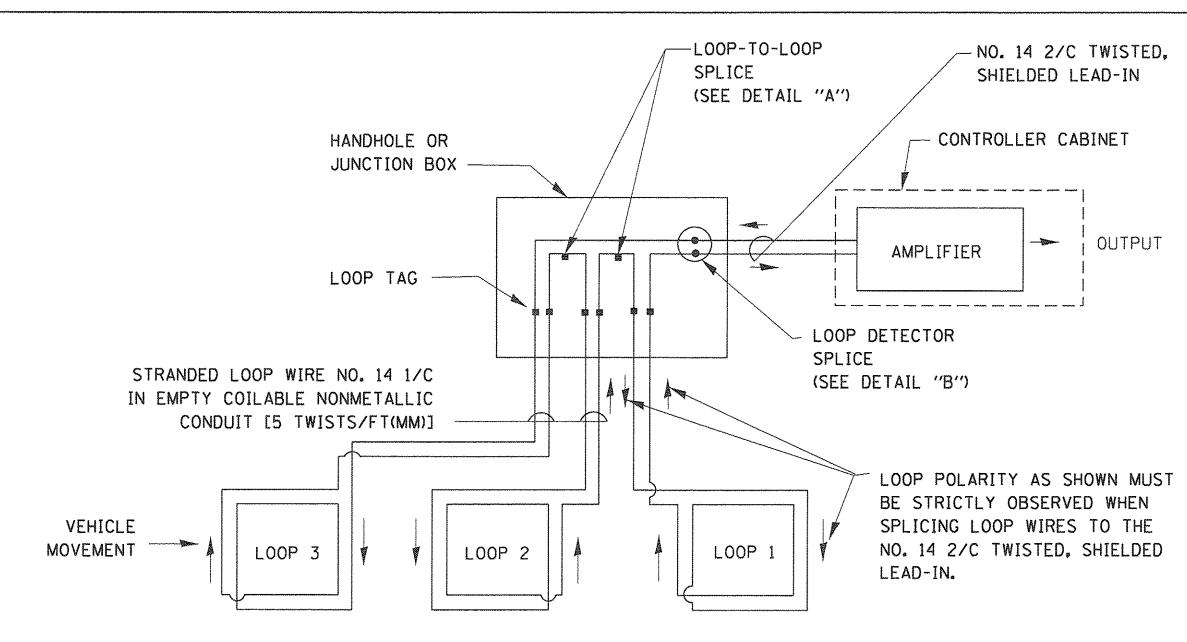
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLF. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET. AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION, LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

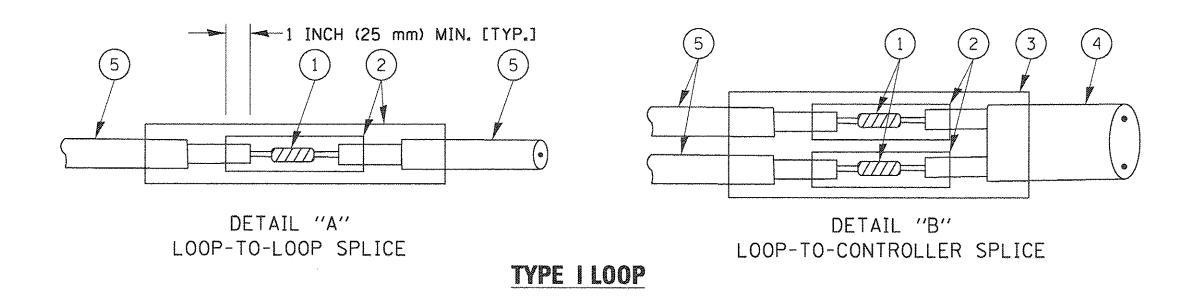


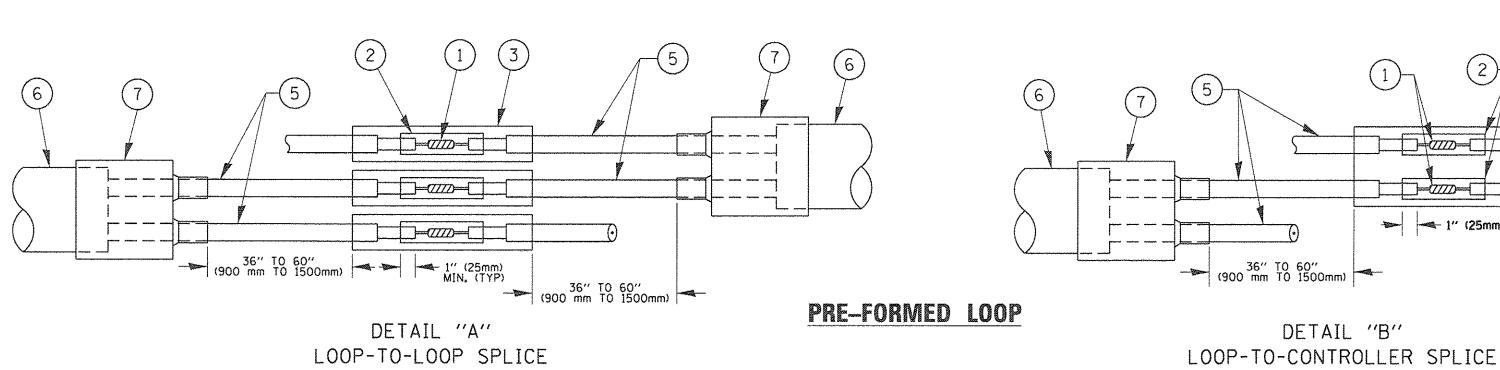
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

1" (25mm) MIN, (TYP)

COUNTY TOTAL SHEET NO.

DUPAGE 23 22

CONTRACT NO. 61D51

FILE NAME =	USER NAME = footemj	DESIGNED -	DAD	REVISED - DAG 1-1-14
c:\pw_work\pwidot\footemj\d0108315\ts05.	dgn	DRAWN -	BCK	REVISED -
	PLOT SCALE = 50.0000 '/ 10.	CHECKED -	DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE -	10-28-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

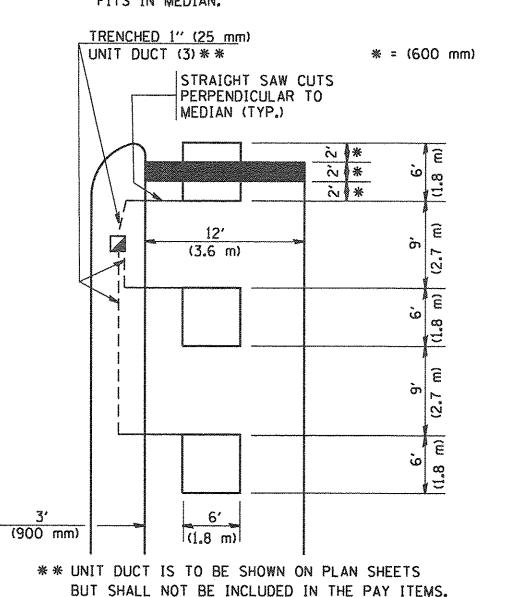
DISTRICT ONE						SECTION			COUNT	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS					2561	15-0011	1-00-RS		DUPAC	
 SIMMUMAND INMITTED SIGNAL DESIGN DETAILS						TS05	•	-	CONTRA	
SHEET NO. 2	OF 7	SHEETS STA.	i	TO STA.	FED. ROA	D DIST. NO. 1	ILLINOIS F	ED. AIL) PROJECT	

LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER (1.5 m) (1.8 m) (1.5 m) * 1" (25 mm) UNIT DUCT-TRENCHED (3.0 m)(3.0 m)TO E/P ** * = (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.



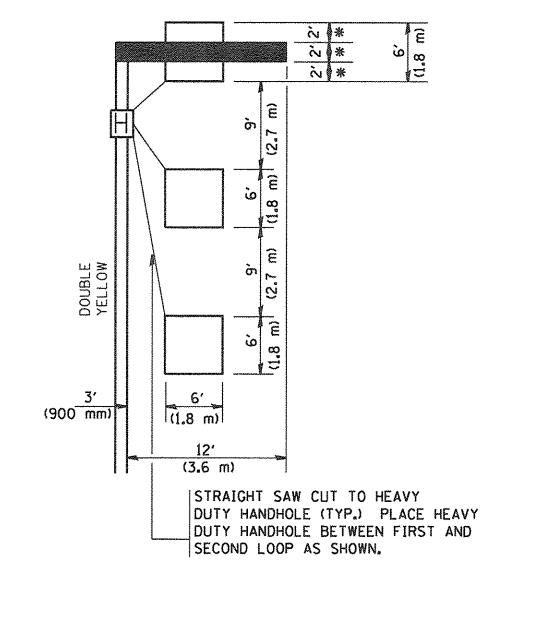
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)

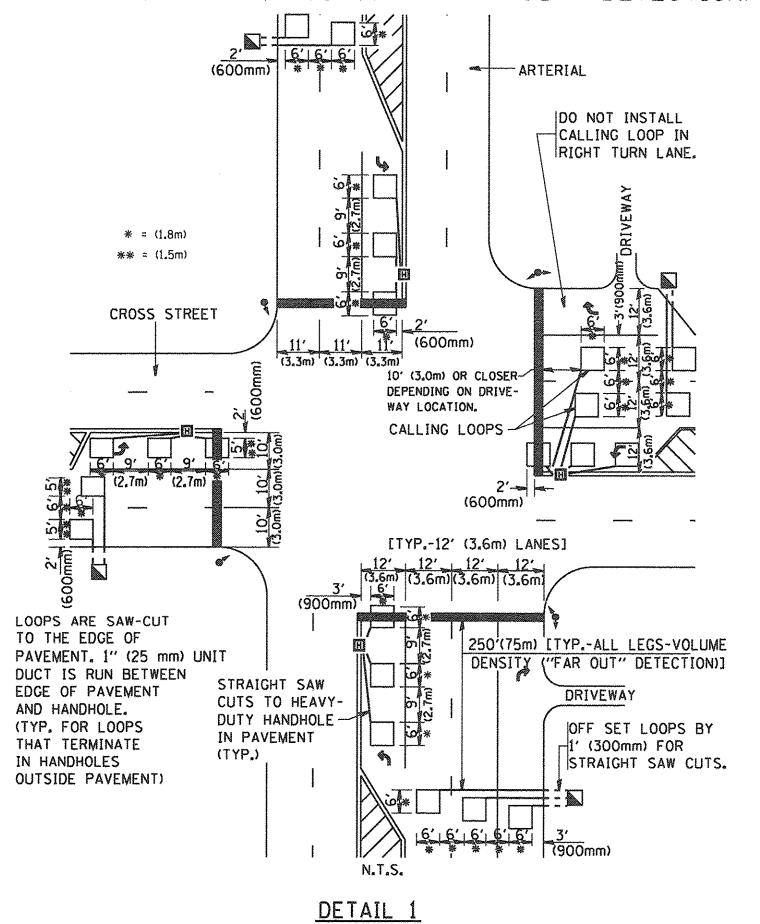


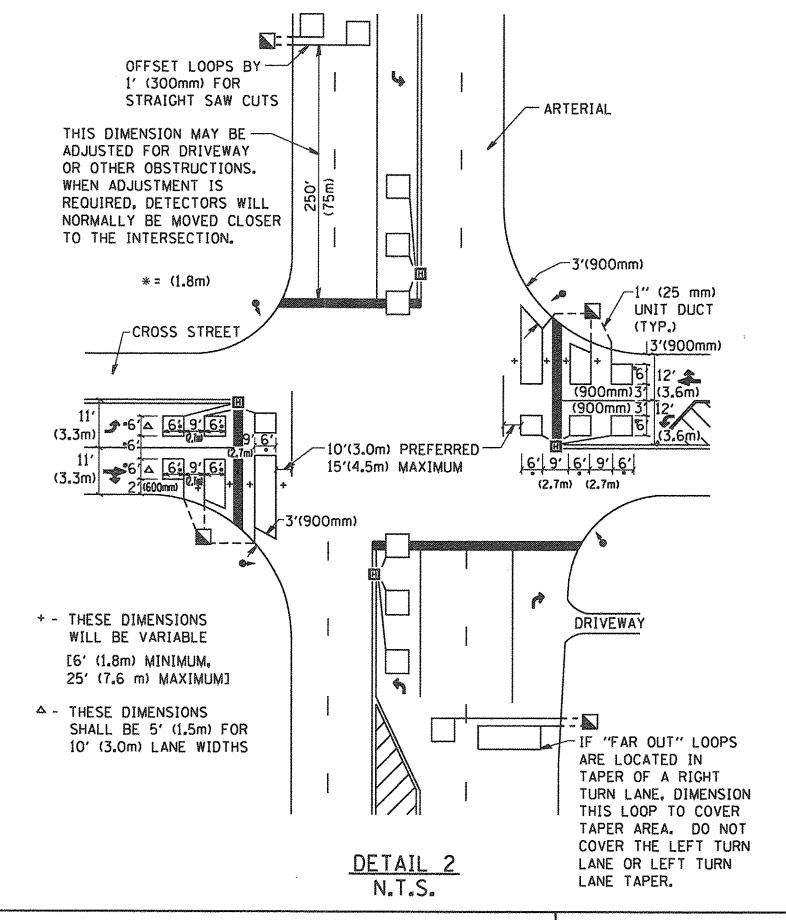
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE

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

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





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 SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> 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 DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE
DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT
TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN
ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO
NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND
10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF
PAVEMENT EXTENDED.

NOTE:

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

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

ILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -	
:\diststd\22x34\ts07.dgn		DRAWN -	REVISED -	
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - R.K.F.	REVISED -	
	PLOT DATE = 1/4/2008	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION

DETAILS FOR ROADWAY RESURFACING

SHEET NO. 1 OF 1 SHEETS STA. TO STA.