

04-26-2019 LETTING ITEM 112

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F. A. I. D. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	1
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT #61F67

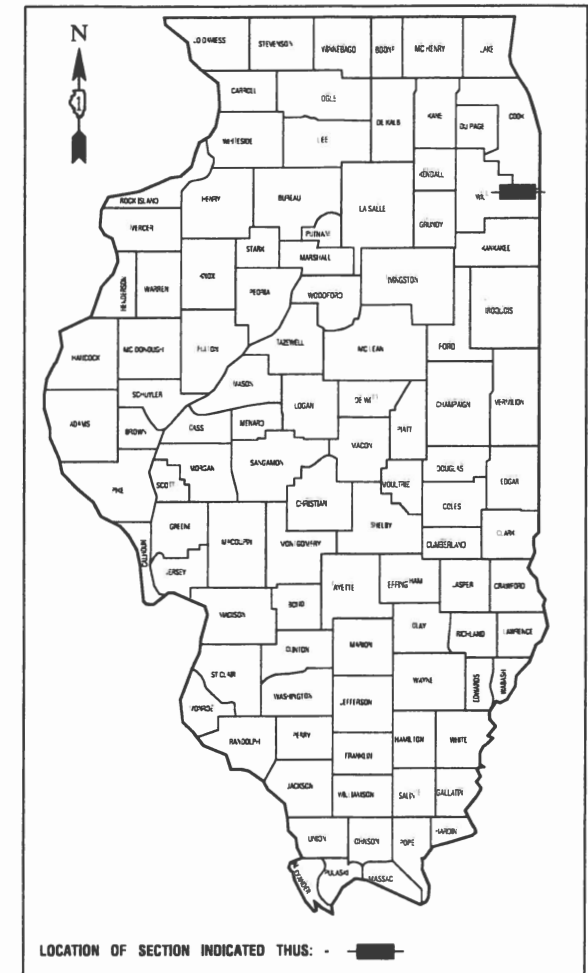
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

(FAU 1638) UNIVERSITY PARKWAY
STEGER-MONEE ROAD TO WESTERN AVENUE
ROADWAY RESURFACING
SECTION NO.: 18-00028-00-RS
PROJECT NO.: TTMA (819)
VILLAGE of UNIVERSITY PARK
WILL COUNTY
C-91-278-19

INDEX OF SHEETS
SEE SHEET NO. 2

HIGHWAY STANDARDS
SEE SHEET NO. 2

UNIVERSITY PARKWAY	
2018 ADT -	7,500
2040 ADT -	8,500
POSTED SPEED LIMIT -	35 mph
DESIGN PERIOD -	20 YEARS
DESIGN SPEED LIMIT -	35 mph
STREET CLASSIFICATION -	MINOR ARTERIAL



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved: JANUARY 14, 2019
[Signature]
President, Village of University Park

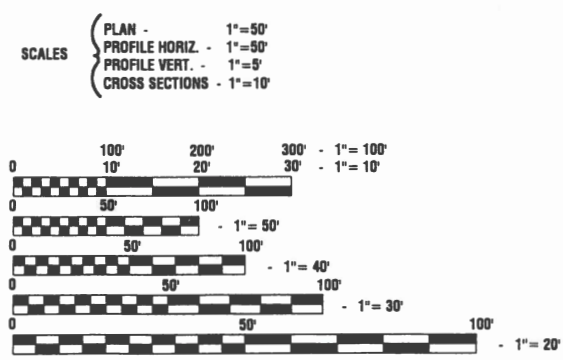
Passed: 2/13/19
[Signature]
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review: FEBRUARY 15, 2019
[Signature]
Regional Engineer

PRINTED BY THE AUTHORITY OF
THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE
DIRECT SUPERVISION OF:
[Signature]
12-27-18

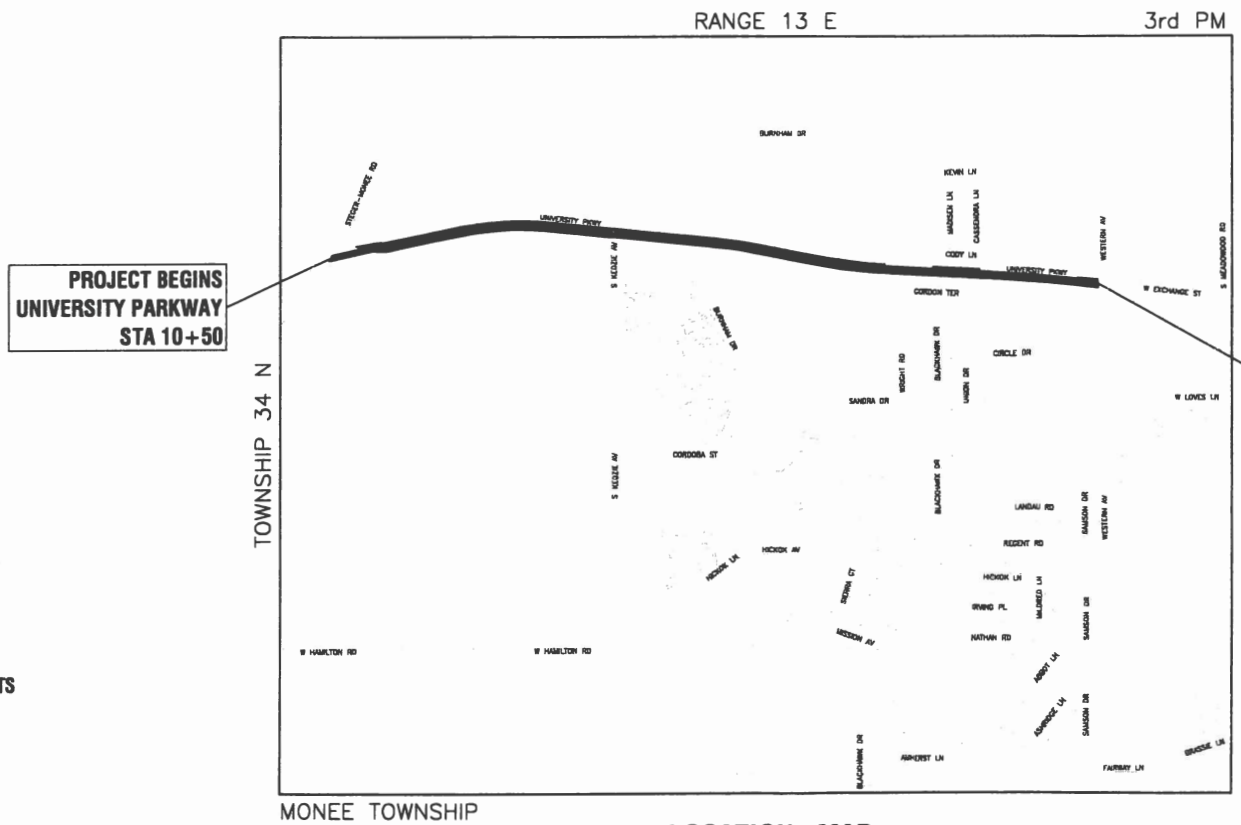
ROBERT R. ROBERTSON
021-05110
LICENSED
PROFESSIONAL
ENGINEER
STATE OF ILLINOIS
LICENSE 009961 11/30/19



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. 61F67



LOCATION MAP

- INDICATES PROPOSED IMPROVEMENT

GROSS LENGTH = 8,400 FEET = 1.59 MILES
NET LENGTH = 8,400 FEET = 1.59 MILES

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, SCHAMBURG, IL.
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

INDEX OF SHEETS

1. COVER SHEET
2. INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTIONS
- 5.-8. PROPOSED PLAN
- 9.-12. PAVEMENT MARKING PLAN
- 13.-22. IDOT DISTRICT 1 STANDARD DETAILS

HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 424001-11 PERPENDICULAR CURB RAMPS
- 424006-04 DIAGONAL CURB RAMPS FOR SIDEWALKS
- 424011-04 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 424021-05 DEPRESSED CORNERS FOR CURB RAMPS
- 424026-03 ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
- 424031-02 MEDIAN PEDESTRIAN CROSSINGS
- 442201-03 CLASS C AND D PATCHES
- 602001-02 CATCH BASIN, TYPE A
- 604001-04 FRAME AND LIDS TYPE 1
- 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD OPERATIONS, 2L, 2W, DAY ONLY
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

DISTRICT ONE DETAILS

- BD-08 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
- BD-22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
- BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- BD-32 BUTT JOINT AND HMA TAPER DETAILS
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLow RESISTANT)
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
- TS-07 DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

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, APRIL 1, 2016.
2. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
3. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS. THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
5. BEFORE STARTING ANY EXCAVATION THE CONTRACT SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 AND (312) 744-7000 AND THE VILLAGE OF UNIVERSITY PARK AT (708) 534-4823 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION REQUIRED).
6. THE CONTRACTOR WILL NOT BE ALLOWED TO SETUP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY OR RIGHT OF WAY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
7. SAW CUTTING OF PAVEMENTS, SIDEWALK, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING.
8. OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.
9. HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
10. QUANTITIES FOR PATCHING SHALL NOT EXCEED THOSE PROVIDED IN THE SUMMARY OF QUANTITIES UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE ENGINEER WILL VERIFY FINAL PATCH LOCATIONS IN THE FIELD, PRIOR TO REMOVAL.
11. THE THICKNESS OF HMA 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 HMA SURFACE IS PLACED.

UTILITY NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT, THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH ARTICLES 105.07 AND 107.20.
3. ALL UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.
5. THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES, VALVE VAULTS, FIRE HYDRANTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE VILLAGE FOR EMERGENCY OPERATIONS. THE LOCATIONS OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
6. ALL LOOSE MATERIAL DEPOSITED IN THE FLOWLINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS.
7. THE EXISTING FRAMES AND LIDS SHALL REMAIN AS PROPERTY OF THE VILLAGE. ALL OLD FRAMES AND LIDS NOT BEING REUSED SHALL BE REMOVED FROM PARKWAYS BY THE CONTRACTOR, DELIVERED TO AND STOCKPILED AT THE VILLAGE PUBLIC WORKS FACILITY WITHIN SEVEN (7) DAYS OF THEIR REMOVAL. THE PUBLIC WORKS FACILITY IS LOCATED AT 25345 S. WESTERN AVENUE, UNIVERSITY PARK, IL 60484.

MISCELLANEOUS

1. MATERIALS RESULTING FROM THE REMOVAL OF CONCRETE SURFACES, UTILITY STRUCTURE ADJUSTMENT, RESTORATION WORK, ETC. SHALL BE REMOVED AT THE END OF EACH DAY TO AN APPROVED SITE. IF THE CONTRACTOR DOES NOT REMOVE THESE MATERIALS AT THE REQUEST OF THE ENGINEER, THE VILLAGE OF UNIVERSITY PARK WILL HIRE A CONTRACTOR TO HAVE THE MATERIAL REMOVED.
2. THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, 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 OBTAIN WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS/HER YARD. WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACT PRIOR TO USE OF THE WATER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING AND CLEANING STREETS OF ANY DEBRIS AND MATERIAL THAT HAS ACCUMULATED AS A RESULT OF THE CONSTRUCTION ACTIVITY. A MECHANICAL SWEEPER, MECHANICALLY DRIVEN AIR AND HANDWORK WITH SHOVEL AND BROOM SHALL BE UTILIZED TO PROVIDE A CLEAN STREET FOR THE MOTORING PUBLIC. WITHIN 24 HOURS OF PLACING TACK COAT AND THE LAYING OF HMA, THE CONTRACTOR SHALL SWEEP THE PAVEMENT AND REMOVING STANDING WATER, EARTH, WEEDS, LEAVES, DIRT, CONSTRUCTION DEBRIS AND ALL LOOSE MATERIAL.
4. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE VILLAGE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO SIDEWALK REPLACEMENT AND/OR CURB AND GUTTER REPLACEMENT. AT LOCATIONS WHERE THE SIDEWALK OR CURB AND GUTTER IS SCHEDULED TO BE REMOVED, THE CONTRACTOR SHALL CONTACT THE BUSINESS/HOMEOWNER 24 HOURS PRIOR TO REMOVING THE CURB SIDEWALK. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES. THE CONTRACT SHALL NOT BE ALLOWED TO CLOSE A DRIVEWAY FOR MORE THAN 48 HOURS UNDER ANY CIRCUMSTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BARRICADES TO PREVENT TRAFFIC FROM USING THE DRIVEWAYS DURING THIS PERIOD.
5. WHEN REMOVING PAVEMENT, CURB AND GUTTER, SHOULDER, AND/OR AND OTHER STRUCTURES, THE USE OF ANY TYPE OF CONCRETE BREAKERS WHICH MIGHT DAMAGE UNDERGROUND PUBLIC OR PRIVATE UTILITIES AND BUILDING FOUNDATIONS WILL NOT BE PERMITTED.

SIGNING AND STRIPING

1. SEE IDOT STANDARD DETAIL 780001, DISTRICT ONE DETAIL TC-13 AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.

COMMITMENTS

NONE

FILE NAME = 15R0664-NOTE-01 - P01	USER NAME =	DESIGNED -- ERR	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UNIVERSITY PARKWAY ROADWAY RESURFACING			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- JCP	REVISED --		1638	18-00028-00-RS	WILL	22	2			
	PLOT SCALE =	DRAWN -- RG	REVISED --		INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES				CONTRACT NO. 61F67			
	PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --		SCALE: NONE	SHEET NO. 2	OF 22 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT

SUMMARY OF QUANTITIES				ROADWAY	SAFETY	TRAINEES	
S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE		
					0005	0021	0042
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	60	60		
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	21,975	21,975		
	40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1,850	1,850		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	663	663		
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2,775	2,775		
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	520	520		
	42400800	DETECTABLE WARNINGS	SQ FT	120	120		
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	33,012	33,012		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,241	1,241		
	44000600	SIDEWALK REMOVAL	SQ FT	520	520		
	44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	8	8		
	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	32	32		
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2		
	60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1		
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	15	15		
	60500050	REMOVING CATCH BASINS	EACH	2	2		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,241	1,241		
	67100100	MOBILIZATION	LSUM	1	1		
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1		1	
	70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	LSUM	1		1	
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1		1	
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1		1	
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	4,500		4,500	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,500		1,500	

* - INDICATES SPECIALTY ITEMS

SUMMARY OF QUANTITIES				ROADWAY	SAFETY	TRAINEES	
S.I.	CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE		
					0005	0021	0042
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	35		35	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	23,000		23,000	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	16,500		16,500	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	720		720	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	121		121	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	280		280	
*	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	210		210	
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	360		360	
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	5	5		
	XX006343	SEEDING (COMPLETE)	SQ YD	500	500		
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	120		120	
	Z0076600	TRAINEES	HOUR	500			500
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500

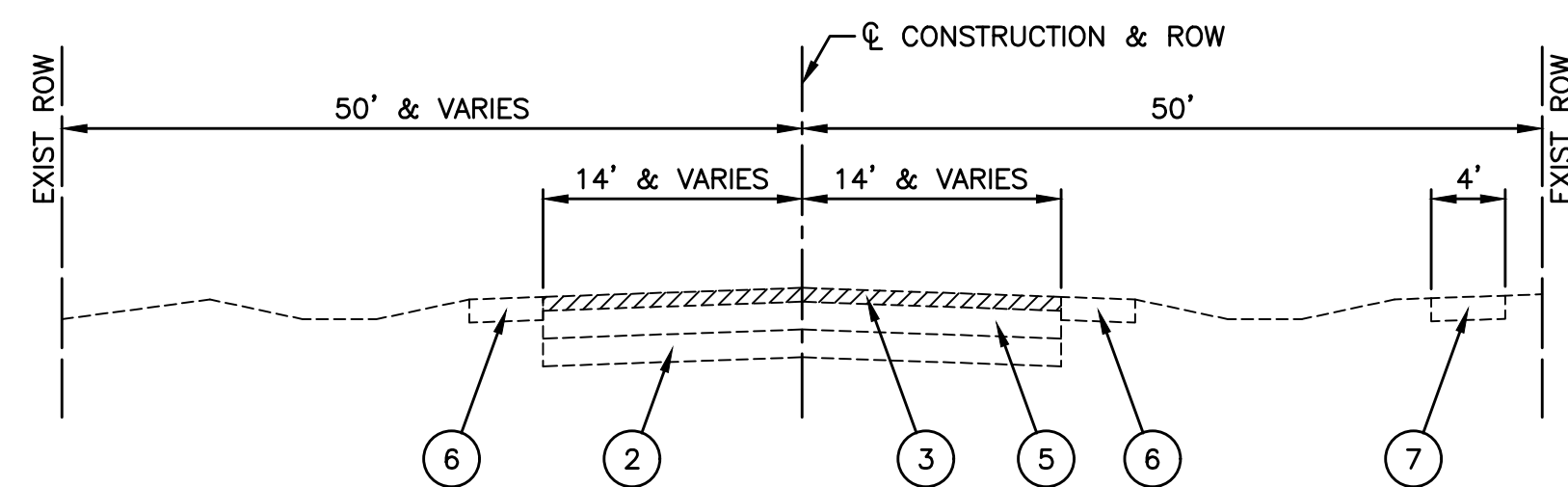
* - INDICATES SPECIALTY ITEMS

FILE NAME = 19R0854-QUAN-01 - 001

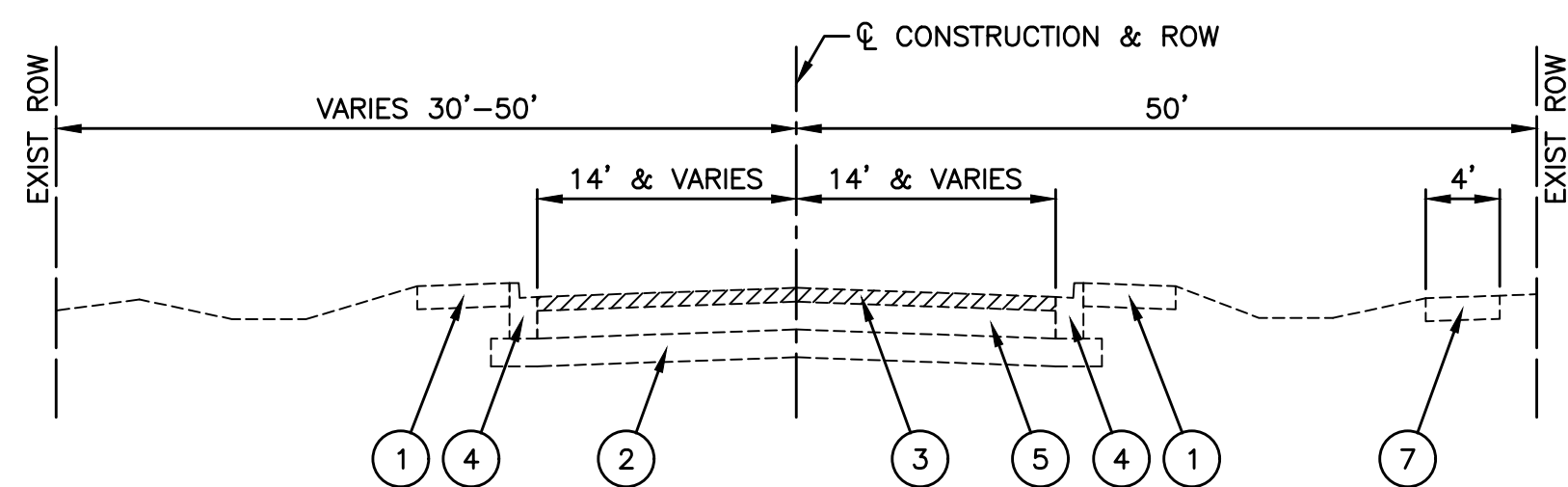
USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

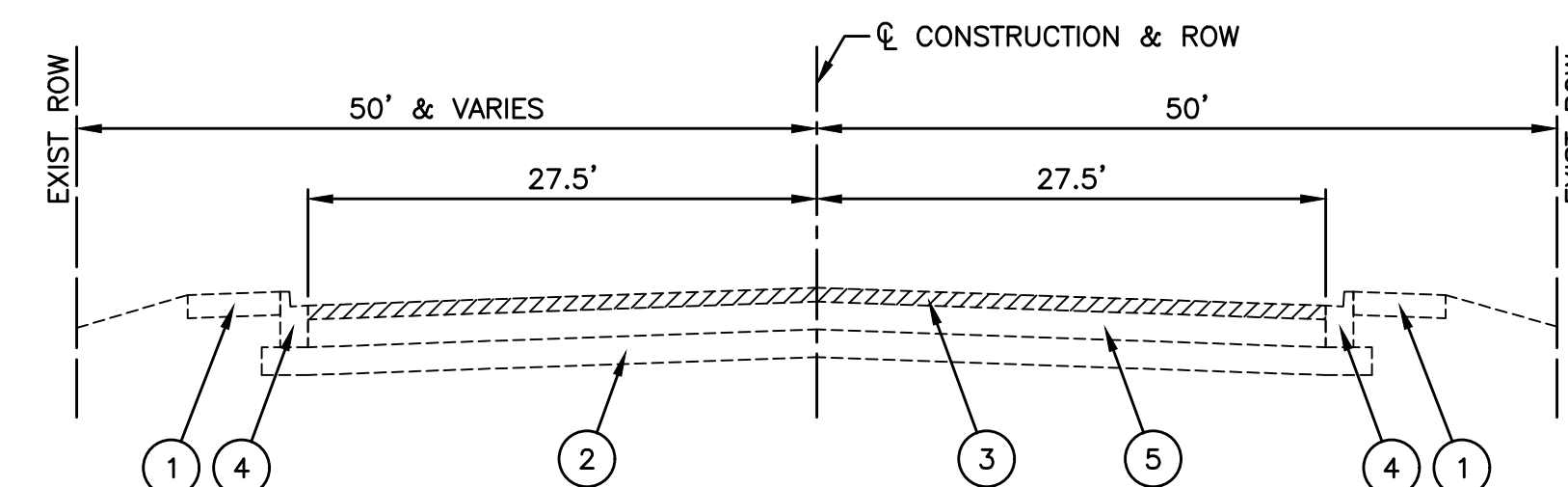
UNIVERSITY PARKWAY ROADWAY RESURFACING SUMMARY OF QUANTITIES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE		1698	18-00028-00-RS	WILL	22	3
SHEET NO. 3 OF 22 SHEETS		CONTRACT NO. 61F67		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



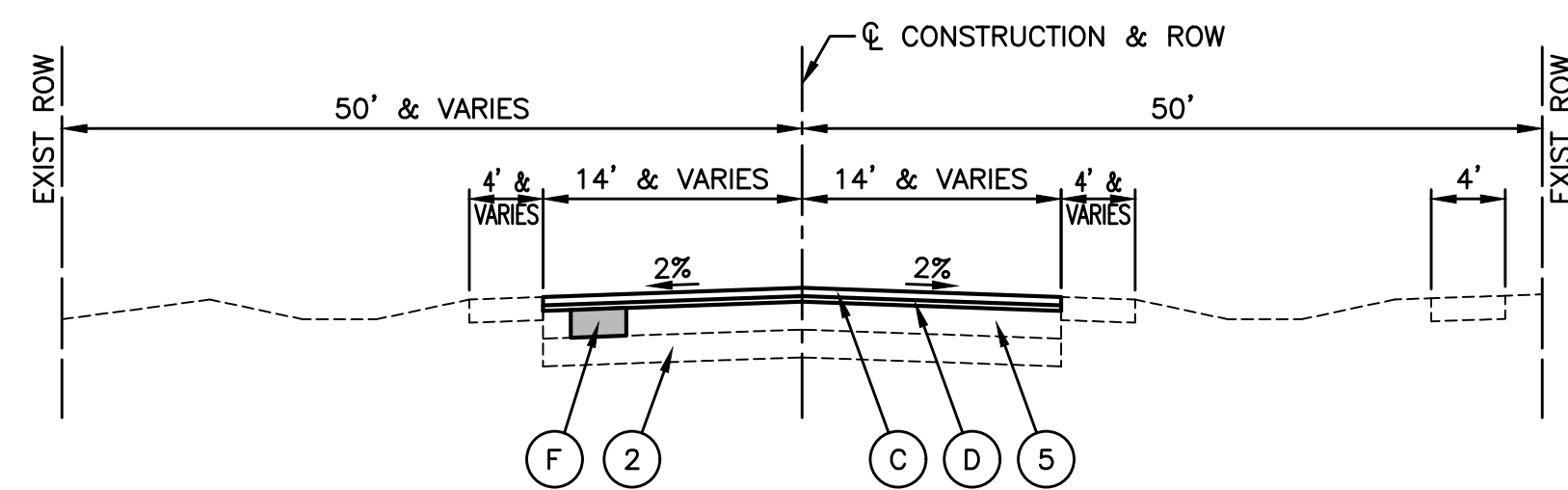
EXISTING TYPICAL SECTION
UNIVERSITY PARKWAY
STA 10+50 TO STA 49+30



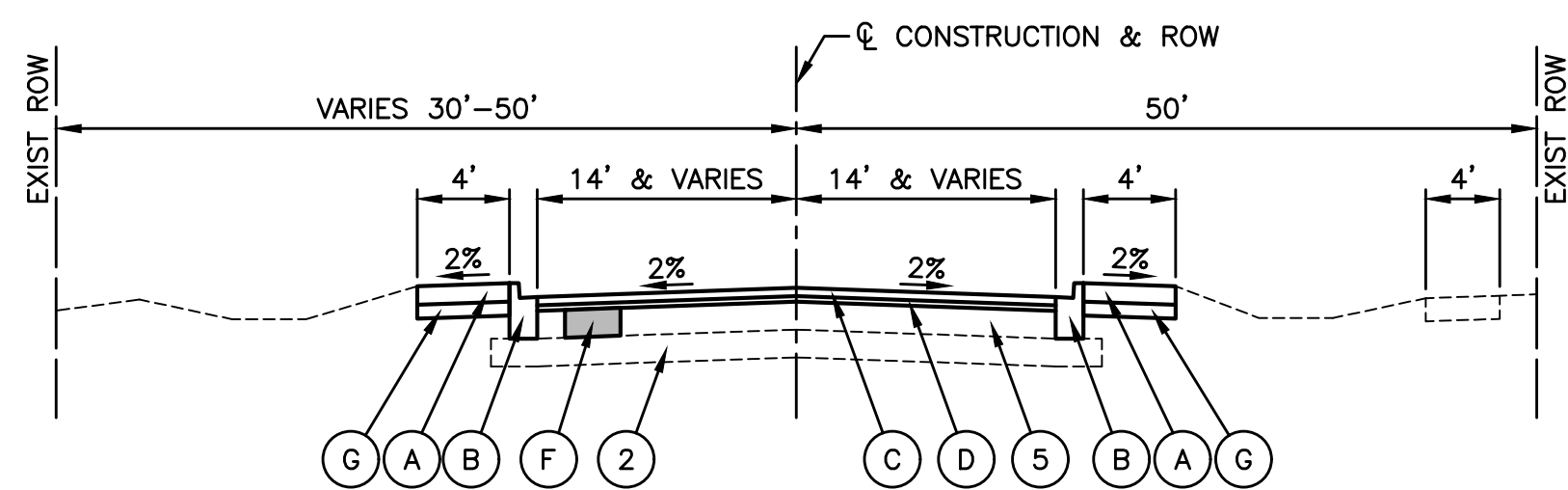
EXISTING TYPICAL SECTION
UNIVERSITY PARKWAY
STA 49+30 TO STA 91+82



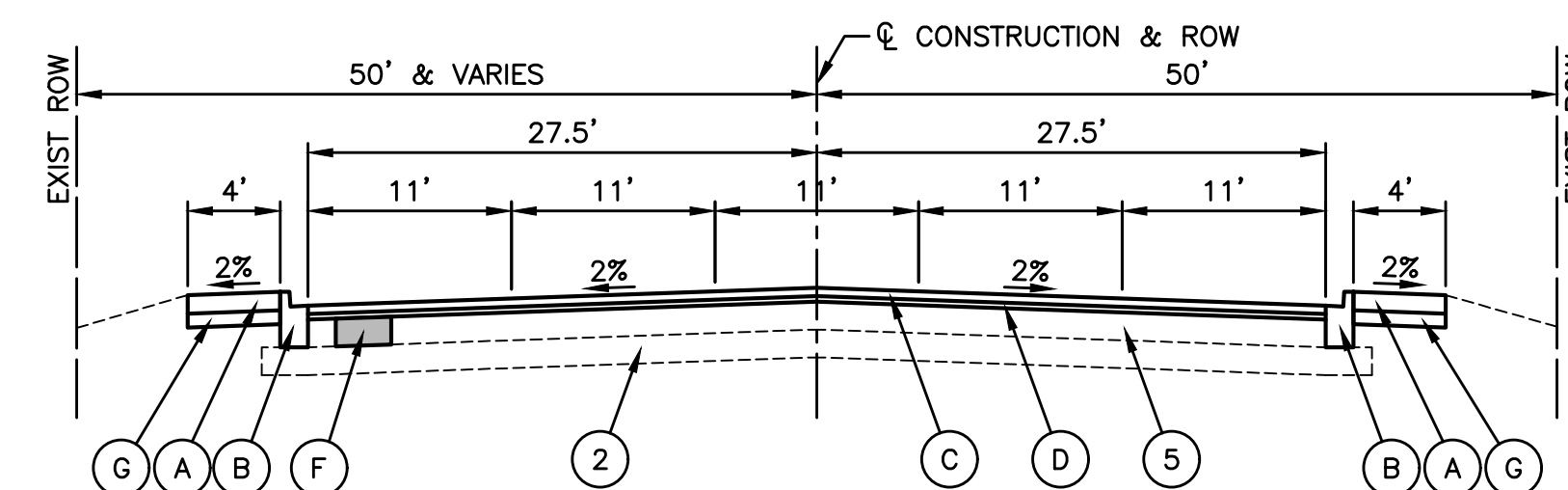
EXISTING TYPICAL SECTION
UNIVERSITY PARKWAY
STA 91+82 TO STA 94+50



PROPOSED TYPICAL SECTION
UNIVERSITY PARKWAY
STA 10+50 TO STA 49+30



PROPOSED TYPICAL SECTION
UNIVERSITY PARKWAY
STA 49+30 TO STA 91+82



PROPOSED TYPICAL SECTION
UNIVERSITY PARKWAY
STA 91+82 TO STA 94+50

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
RESURFACING	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50(IL-9.5mm); 1.5"	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"	3.5% @ 50 Gyr.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19.0 MM): 8" (IN 2 LIFTS)	4% @ 70 Gyr.

NOTE:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
2. FOR USE OF RECYCLED MATERIALS, SEE SPECIAL PROVISIONS.
3. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PC 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE PG 64-22 UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

EXISTING LEGEND

- ① EXISTING PCC SIDEWALK
- ② EXISTING SUBBASE GRANULAR MATERIAL
- ③ HMA SURFACE REMOVAL, 2 1/4"
- ④ EXISTING COMBINATION CURB AND GUTTER REMOVAL (AS SHOWN ON THE PLANS AND AS DIRECTED BY ENGINEER) SHALL INCLUDE REMOVAL OF MATERIAL NECESSARY TO INSTALL PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ⑤ EXISTING HMA PAVEMENT
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING BIKE PATH

PROPOSED LEGEND

- Ⓐ PCC SIDEWALK, 5" (AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER)
- Ⓑ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (AS SHOWN ON THE PLANS AND AS DIRECTED BY ENGINEER)
- Ⓒ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
- Ⓓ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- Ⓔ SEEDING COMPLETE (WITH MAXIMUM PAY WIDTH OF 2 FEET FROM EDGE OF DISTURBANCE)
- Ⓕ CLASS D PATCH, 8" (TYPE III) (AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER)
- Ⓖ SUBBASE GRANULAR MATERIAL, TYPE B, 4"

NOTE

PAVEMENT PATCHING WILL BE PERFORMED AFTER MILLING.

FILE NAME = 15R0654-TYPX-01 - P01

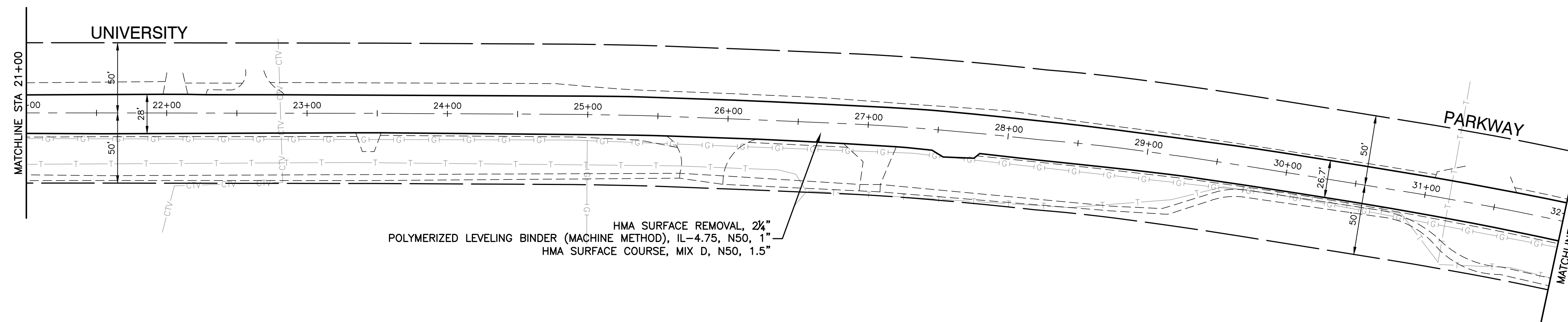
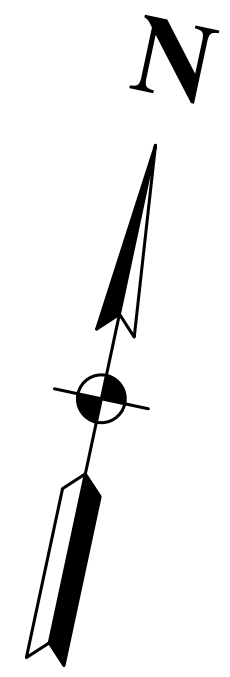
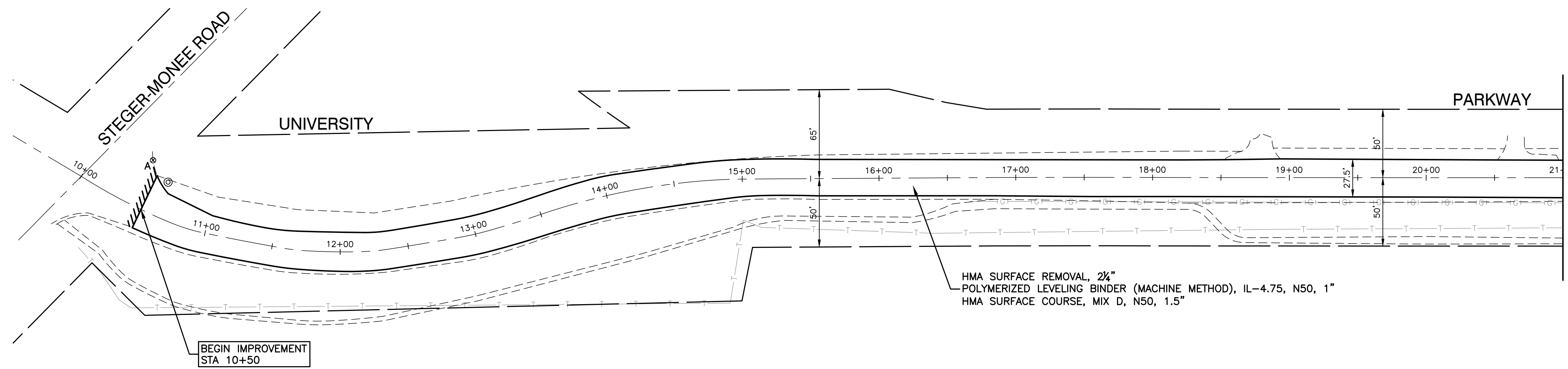
USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNIVERSITY PARKWAY
ROADWAY RESURFACING
TYPICAL CROSS SECTIONS

SCALE: NONE SHEET NO. 4 OF 22 SHEETS STA. TO STA.










F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	4
CONTRACT NO. 61F67				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES

1. CLASS D PATCHES, 8" (TYPE III) AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
2. REMOVAL AND DISPOSAL OF THE MATERIALS UNDER THE PROPOSED CURB AND GUTTER OR SIDEWALK IN ORDER TO INSTALL THE PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4" SHALL BE CONSIDERED INCLUDED IN THE COST OF EITHER ITEM.

LEGEND

-  CONCRETE SIDEWALK REMOVAL AND REPLACEMENT
PCC SIDEWALK, 5", SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
-  CLASS D PATCH, 8"
-  COMBINATION CONCRETE CURB AND GUTTER
REMOVAL AND REPLACEMENT
-  BUTT JOINTS
-  DETECTABLE WARNINGS
-  "A" FRAME AND LIDS TO BE ADJUSTED
-  "R&R" CB TO BE REMOVED AND REPLACED
-  VALVE BOXES TO BE ADJUSTED
-  DETECTOR LOOP REPLACEMENT

FILE NAME = 15R0654-PLAN-01 - P01

USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --

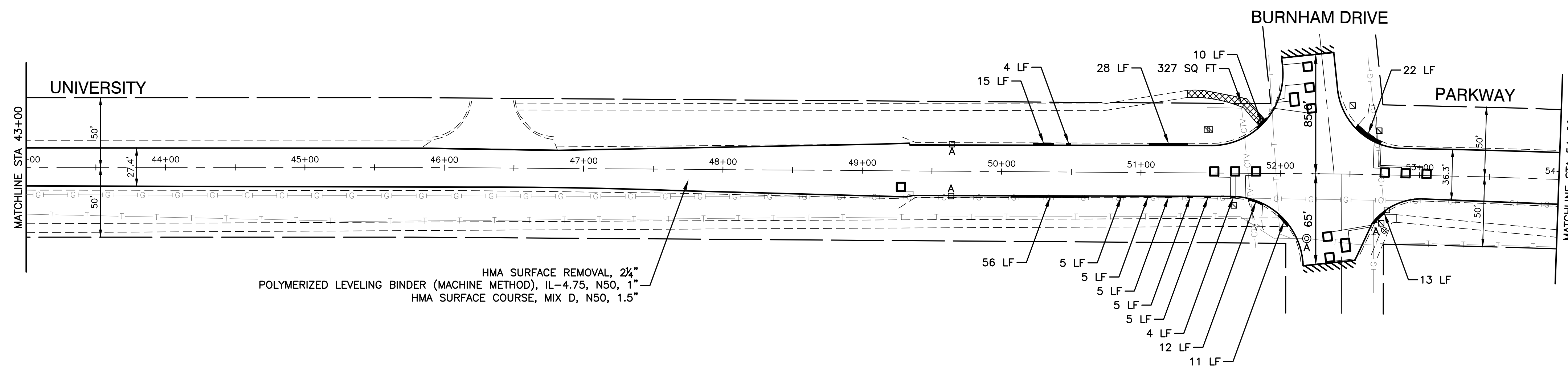
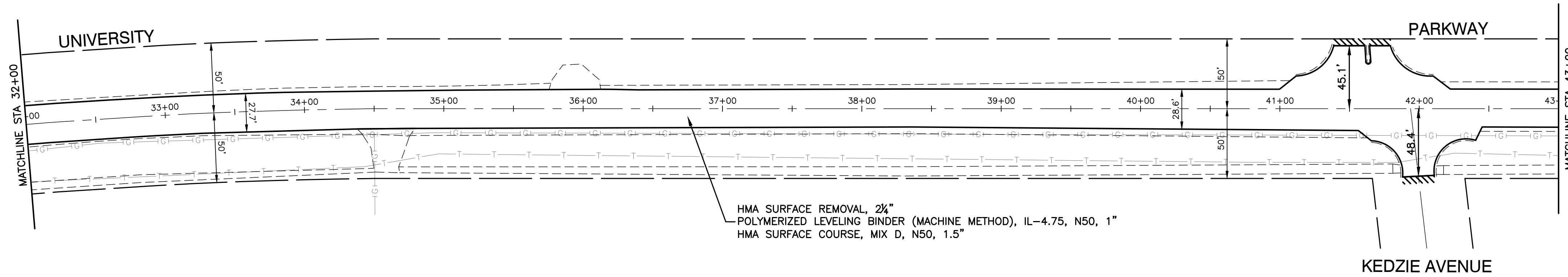
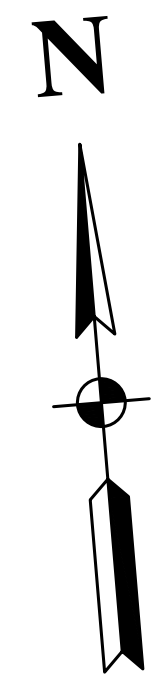
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50'

SHEET NO. 5 OF 22 SHEETS STA. TO STA.

UNIVERSITY PARKWAY
ROADWAY RESURFACING
PROPOSED PLAN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	5
CONTRACT NO. 61F67				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES**
1. CLASS D PATCHES, 8" (TYPE III) AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
 2. REMOVAL AND DISPOSAL OF THE MATERIALS UNDER THE PROPOSED CURB AND GUTTER OR SIDEWALK IN ORDER TO INSTALL THE PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4" SHALL BE CONSIDERED INCLUDED IN THE COST OF EITHER ITEM.

- LEGEND**
- CONCRETE SIDEWALK REMOVAL AND REPLACEMENT
PCC SIDEWALK, 5", SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
 - CLASS D PATCH, 8"
 - COMBINATION CONCRETE CURB AND GUTTER
REMOVAL AND REPLACEMENT
 - BUTT JOINTS
 - DETECTABLE WARNINGS
 - "A" FRAME AND LIDS TO BE ADJUSTED
 - "R&R" CB TO BE REMOVED AND REPLACED
 - VALVE BOXES TO BE ADJUSTED
 - DETECTOR LOOP REPLACEMENT

FILE NAME = 15R0654-PLAN-01 - P02

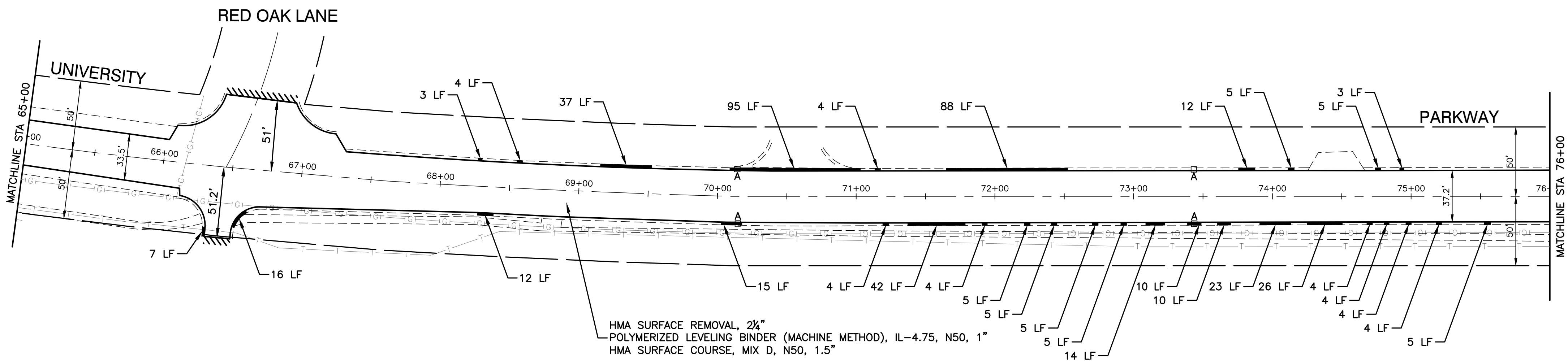
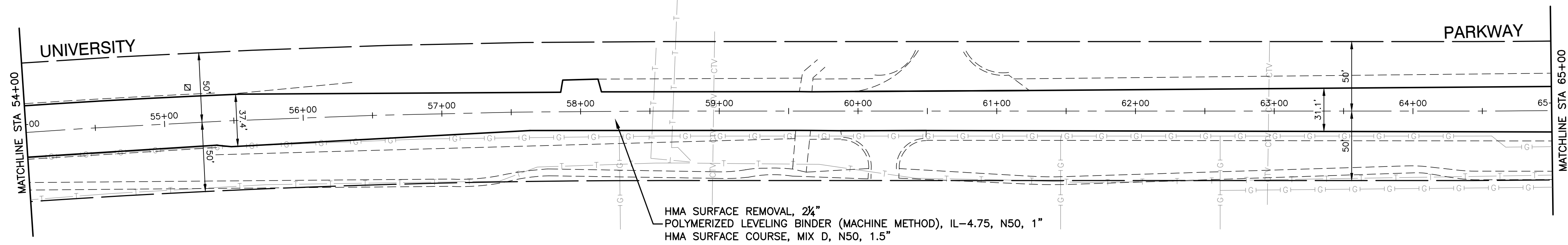
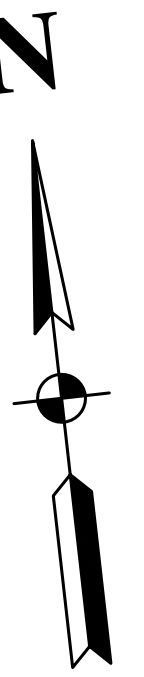
USER NAME =	DESIGNED — ERR	REVISED —
	CHECKED — JCP	REVISED —
PLOT SCALE =	DRAWN — RG	REVISED —
PLOT DATE = 12-27-18	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNIVERSITY PARKWAY
ROADWAY RESURFACING
PROPOSED PLAN

SCALE: 1"=50' SHEET NO. 6 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	6
CONTRACT NO. 61F67				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES**
1. CLASS D PATCHES, 8" (TYPE III) AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
 2. REMOVAL AND DISPOSAL OF THE MATERIALS UNDER THE PROPOSED CURB AND GUTTER OR SIDEWALK IN ORDER TO INSTALL THE PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4" SHALL BE CONSIDERED INCLUDED IN THE COST OF EITHER ITEM.

- LEGEND**
- CONCRETE SIDEWALK REMOVAL AND REPLACEMENT
PCC SIDEWALK, 5", SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
 - CLASS D PATCH, 8"
 - COMBINATION CONCRETE CURB AND GUTTER
REMOVAL AND REPLACEMENT
 - BUTT JOINTS
 - DETECTABLE WARNINGS
 - "A" FRAME AND LIDS TO BE ADJUSTED
 - "R&R" CB TO BE REMOVED AND REPLACED
 - VALVE BOXES TO BE ADJUSTED
 - DETECTOR LOOP REPLACEMENT

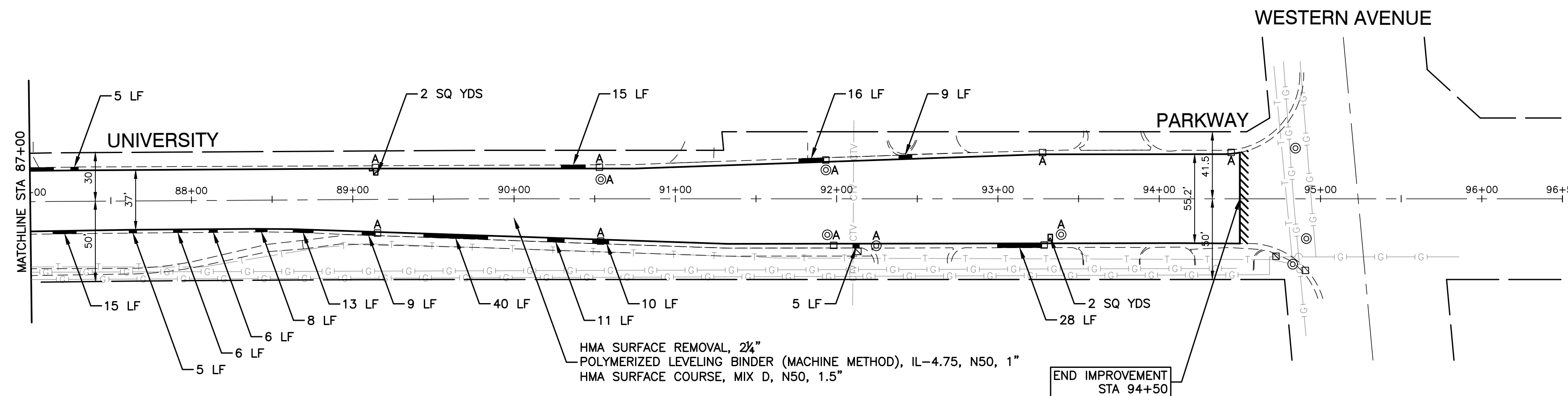
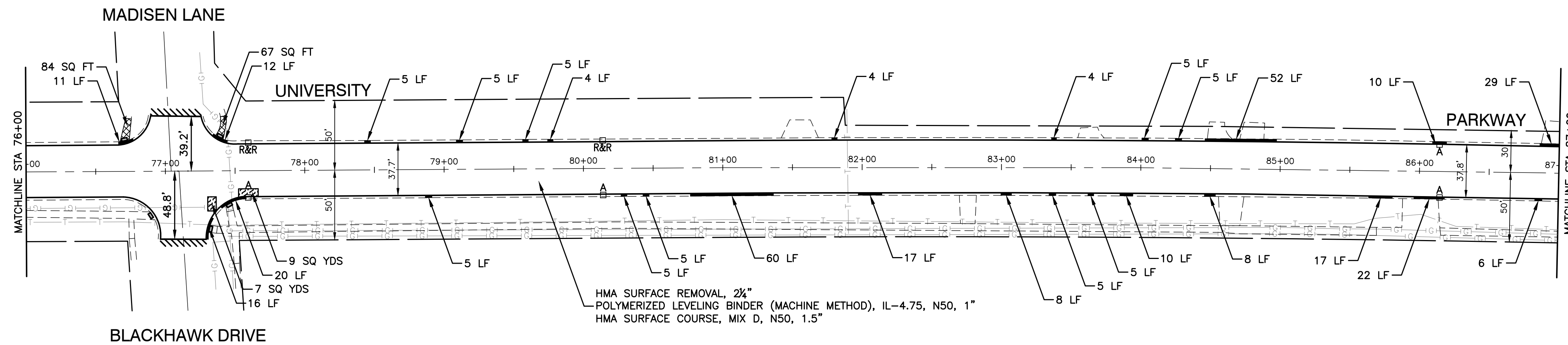
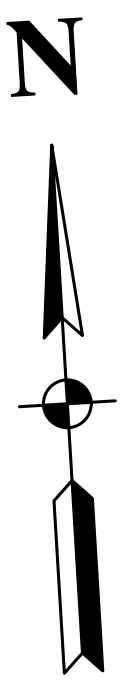
FILE NAME = 15R0654-PLAN-01 - P03	USER NAME =	DESIGNED — ERR	REVISED —
		CHECKED — JCP	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 12-27-18	CHECKED — AG	REVISED —

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**UNIVERSITY PARKWAY
ROADWAY RESURFACING
PROPOSED PLAN**

SCALE: 1"=50' SHEET NO. 7 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	7
CONTRACT NO. 61F67				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES

1. CLASS D PATCHES, 8" (TYPE III) AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
2. REMOVAL AND DISPOSAL OF THE MATERIALS UNDER THE PROPOSED CURB AND GUTTER OR SIDEWALK IN ORDER TO INSTALL THE PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4" SHALL BE CONSIDERED INCLUDED IN THE COST OF EITHER ITEM.

LEGEND

- CONCRETE SIDEWALK REMOVAL AND REPLACEMENT
PCC SIDEWALK, 5", SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- CLASS D PATCH, 8"
- COMBINATION CONCRETE CURB AND GUTTER
REMOVAL AND REPLACEMENT
- BUTT JOINTS
- DETECTABLE WARNINGS
- "A" FRAME AND LIDS TO BE ADJUSTED
- "R&R" CB TO BE REMOVED AND REPLACED
- VALVE BOXES TO BE ADJUSTED
- DETECTOR LOOP REPLACEMENT

FILE NAME = 15R0654-PLAN-01 - P04

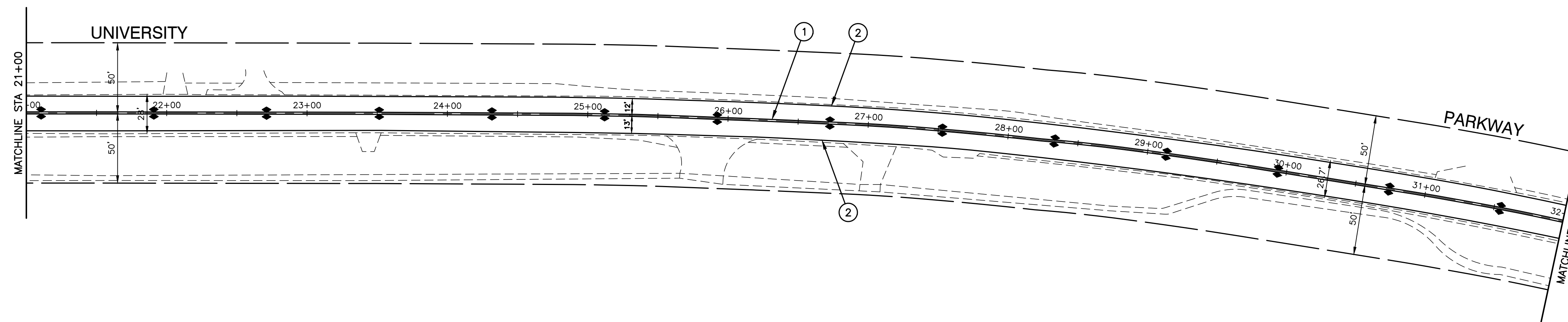
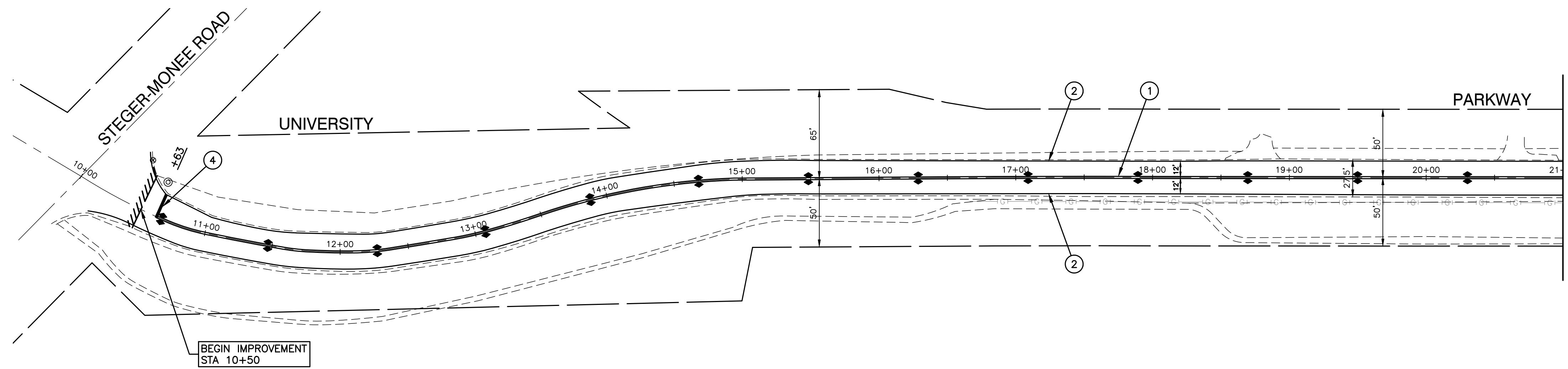
USER NAME =	DESIGNED — ERR	REVISED —
	CHECKED — JCP	REVISED —
PLOT SCALE =	DRAWN — RG	REVISED —
PLOT DATE = 12-27-18	CHECKED — AG	REVISED —

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**UNIVERSITY PARKWAY
ROADWAY RESURFACING
PROPOSED PLAN**

SCALE: 1"=50' SHEET NO. 8 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	8
CONTRACT NO. 61F67				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

- ① 4" THERMOPLASTIC DOUBLE YELLOW LINE (11" C/C)
- ② 6" THERMOPLASTIC WHITE LINE
- ③ 6" THERMOPLASTIC WHITE CROSSWALK LIKE (6' APART)
- ④ 24" THERMOPLASTIC WHITE STOP BAR
- ⑤ THERMOPLASTIC WHITE LETTERS AND SYMBOLS - FULL SIZE
- ⑥ 12" THERMOPLASTIC WHITE SOLIDS @ 3' SP. C-C
- ⑦ 4" THERMOPLASTIC WHITE SKIP DASH (10' LINE, 30' SPACE)
- ⑧ 12" THERMOPLASTIC WHITE LINE (3' C-C) (SCHOOL TYPE CROSSING)
- ⑨ 12" THERMOPLASTIC YELLOW DIAGONAL LINE (20' C-C)
- ⑩ 4" THERMOPLASTIC YELLOW LINE W/ 4" YELLOW SKIP DASH
- ◆ TWO-WAY AMBER MARKER
80' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY AMBER MARKER
80' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY CRYSTAL MARKER
80' C/C UNLESS OTHERWISE INDICATED

NOTE:

SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.

FILE NAME = 15R0654-PLAN-01 - PVMK01

USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --

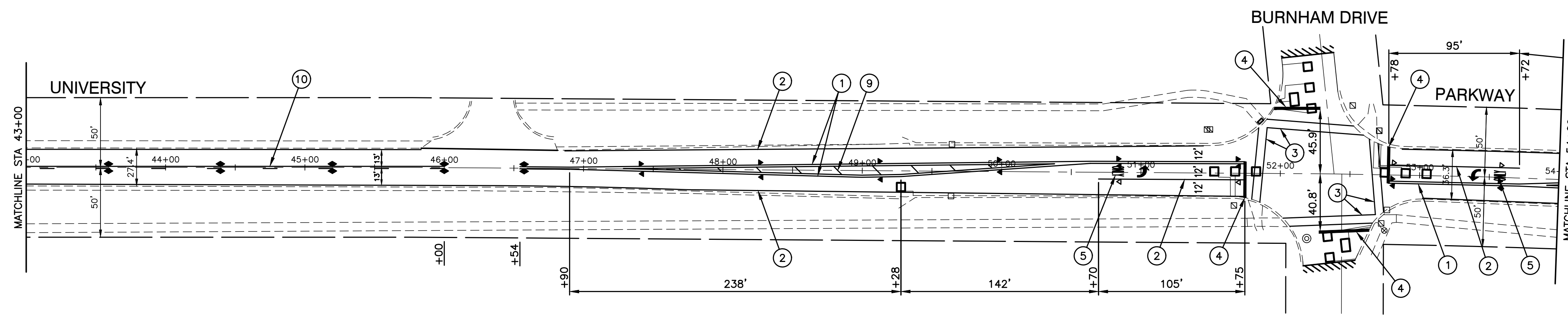
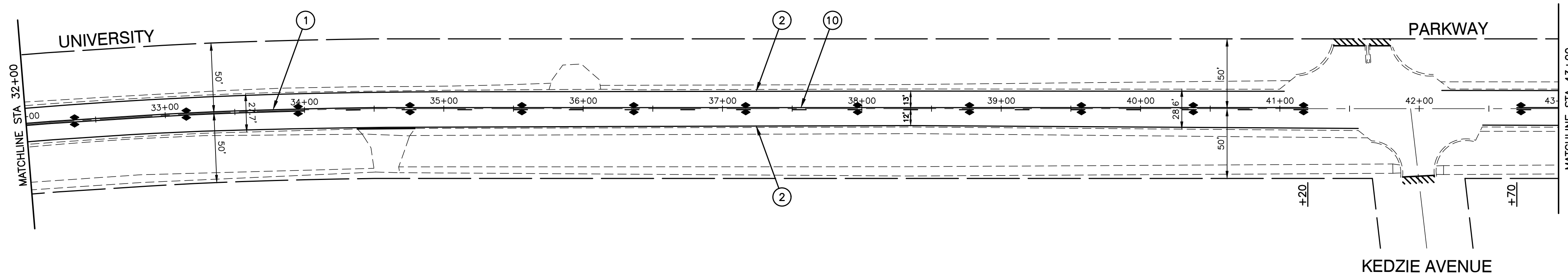
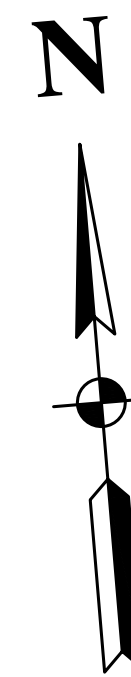
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50'

SHEET NO. 9 OF 22 SHEETS STA. TO STA.

UNIVERSITY PARKWAY
ROADWAY RESURFACING
PAVEMENT MARKING PLAN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F67	



LEGEND

- ① 4" THERMOPLASTIC DOUBLE YELLOW LINE (11" C/C)
- ② 6" THERMOPLASTIC WHITE LINE
- ③ 6" THERMOPLASTIC WHITE CROSSWALK LIKE (6' APART)
- ④ 24" THERMOPLASTIC WHITE STOP BAR
- ⑤ THERMOPLASTIC WHITE LETTERS AND SYMBOLS - FULL SIZE
- ⑥ 12" THERMOPLASTIC WHITE SOLIDS @ 3' SP. C-C
- ⑦ 4" THERMOPLASTIC WHITE SKIP DASH (10' LINE, 30' SPACE)
- ⑧ 12" THERMOPLASTIC WHITE LINE (3' C-C) (SCHOOL TYPE CROSSING)
- ⑨ 12" THERMOPLASTIC YELLOW DIAGONAL LINE (20' C-C)
- ⑩ 4" THERMOPLASTIC YELLOW LINE W/ 4" YELLOW SKIP DASH
- ◆ TWO-WAY AMBER MARKER
80' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY AMBER MARKER
80' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY CRYSTAL MARKER
80' C/C UNLESS OTHERWISE INDICATED

NOTE:

SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.

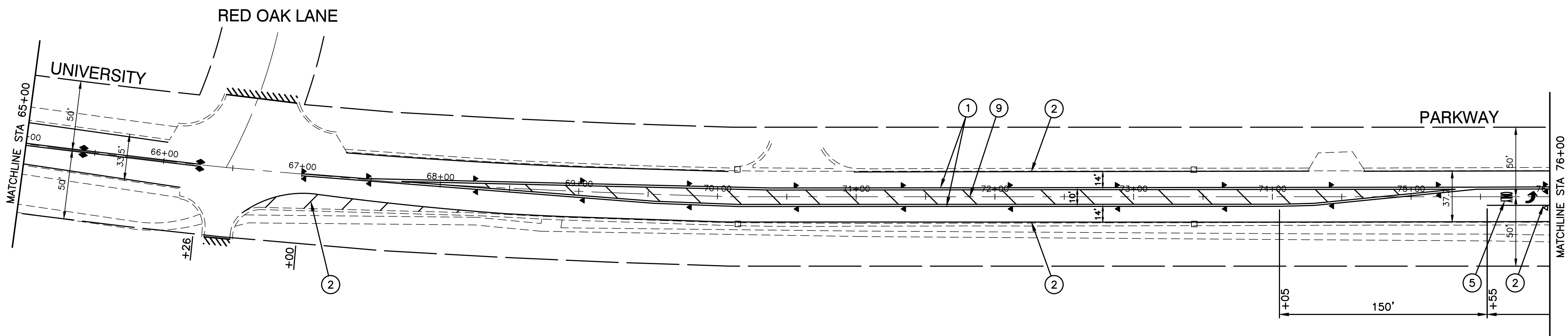
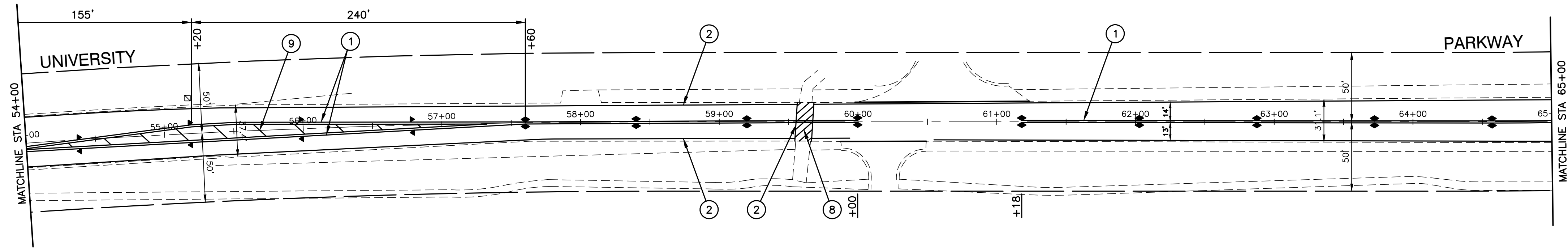
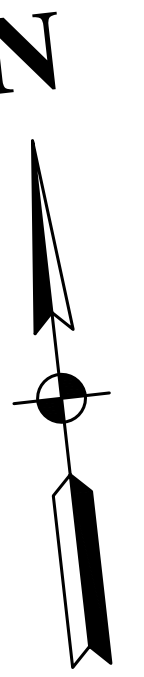
FILE NAME = 15R0654-PLAN-01 - PVMK02

USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

UNIVERSITY PARKWAY ROADWAY RESURFACING PAVEMENT MARKING PLAN			
SCALE: 1"=50'	SHEET NO. 10 OF 22 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	10
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F67	



LEGEND

- ① 4" THERMOPLASTIC DOUBLE YELLOW LINE (11" C/C)
- ② 6" THERMOPLASTIC WHITE LINE
- ③ 6" THERMOPLASTIC WHITE CROSSWALK LIKE (6' APART)
- ④ 24" THERMOPLASTIC WHITE STOP BAR
- ⑤ THERMOPLASTIC WHITE LETTERS AND SYMBOLS - FULL SIZE
- ⑥ 12" THERMOPLASTIC WHITE SOLIDS @ 3' SP. C-C
- ⑦ 4" THERMOPLASTIC WHITE SKIP DASH (10' LINE, 30' SPACE)
- ⑧ 12" THERMOPLASTIC WHITE LINE (3' C-C) (SCHOOL TYPE CROSSING)
- ⑨ 12" THERMOPLASTIC YELLOW DIAGONAL LINE (20' C-C)
- ⑩ 4" THERMOPLASTIC YELLOW LINE W/ 4" YELLOW SKIP DASH
- ◆ TWO-WAY AMBER MARKER
80' C/C UNLESS OTHERWISE INDICATED
- ◀ ONE-WAY AMBER MARKER
80' C/C UNLESS OTHERWISE INDICATED
- ◀ ONE-WAY CRYSTAL MARKER
80' C/C UNLESS OTHERWISE INDICATED

NOTE:

SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.

FILE NAME = 15R0654-PLAN-01 - PVMK03

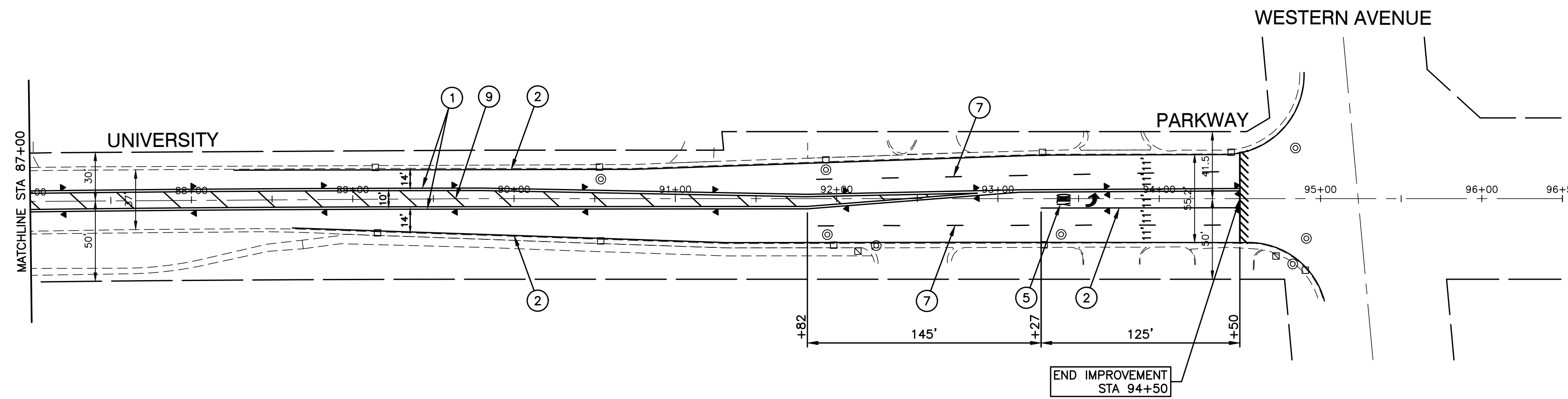
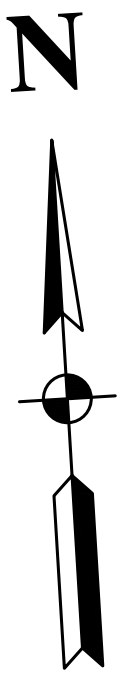
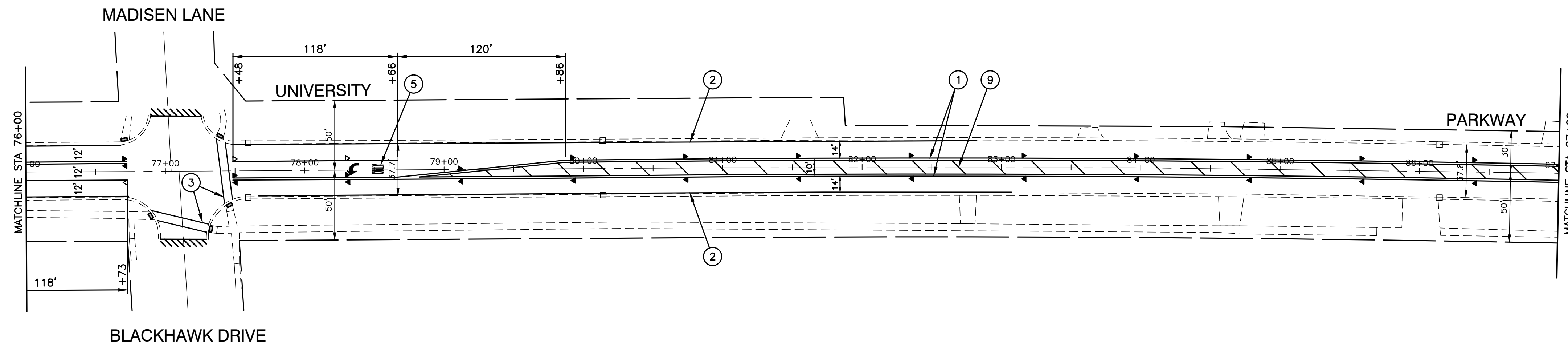
USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNIVERSITY PARKWAY
ROADWAY RESURFACING
PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET NO. 11 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F67	



LEGEND

- ① 4" THERMOPLASTIC DOUBLE YELLOW LINE (11" C/C)
- ② 6" THERMOPLASTIC WHITE LINE
- ③ 6" THERMOPLASTIC WHITE CROSSWALK LIKE (6' APART)
- ④ 24" THERMOPLASTIC WHITE STOP BAR
- ⑤ THERMOPLASTIC WHITE LETTERS AND SYMBOLS - FULL SIZE
- ⑥ 12" THERMOPLASTIC WHITE SOLIDS @ 3' SP. C-C
- ⑦ 4" THERMOPLASTIC WHITE SKIP DASH (10' LINE, 30' SPACE)
- ⑧ 12" THERMOPLASTIC WHITE LINE (3' C-C) (SCHOOL TYPE CROSSING)
- ⑨ 12" THERMOPLASTIC YELLOW DIAGONAL LINE (20' C-C)
- ⑩ 4" THERMOPLASTIC YELLOW LINE W/ 4" YELLOW SKIP DASH
- ◆ TWO-WAY AMBER MARKER
80' C/C UNLESS OTHERWISE INDICATED
- ◀ ONE-WAY AMBER MARKER
80' C/C UNLESS OTHERWISE INDICATED
- ◀ ONE-WAY CRYSTAL MARKER
80' C/C UNLESS OTHERWISE INDICATED

NOTE:

SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.

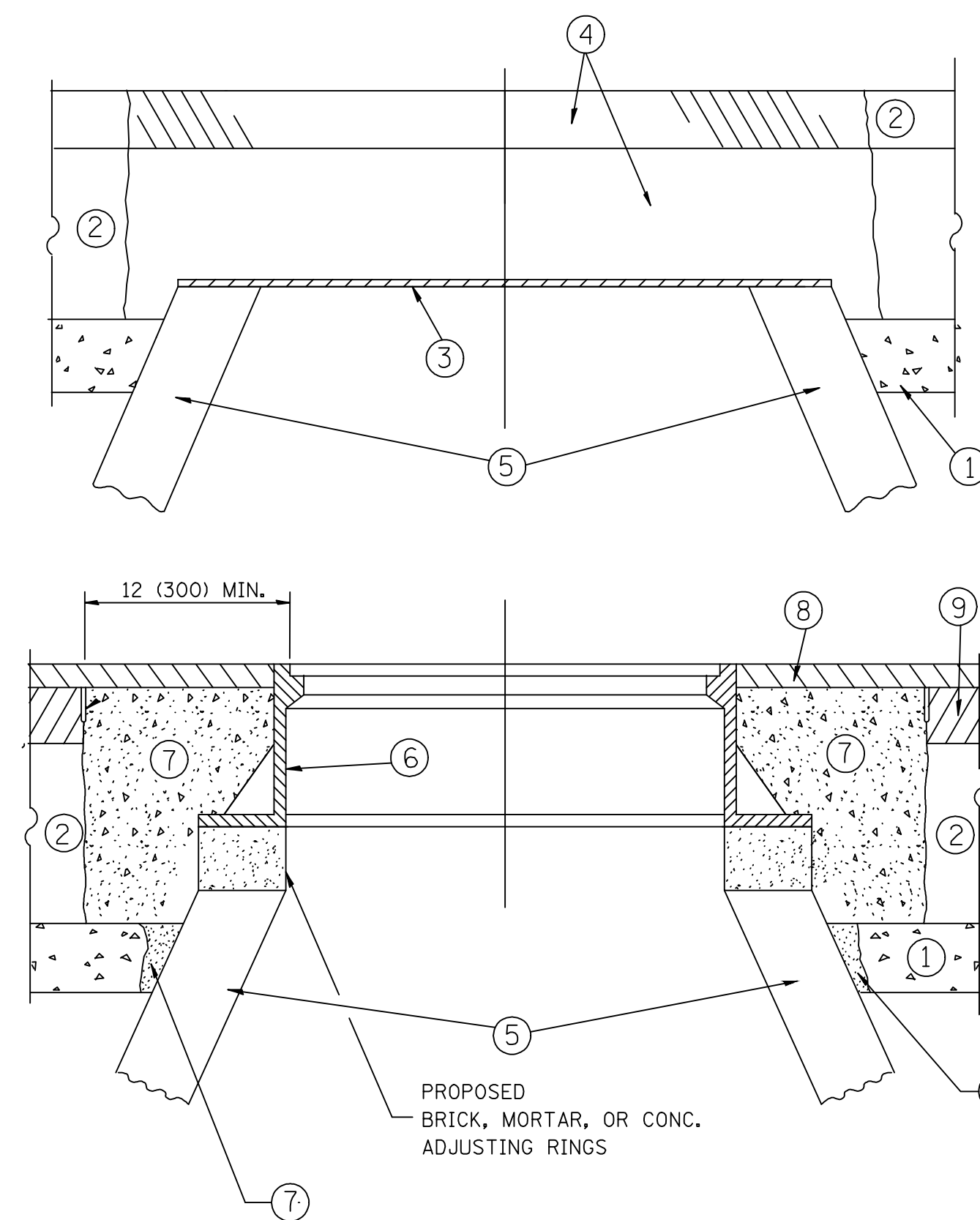
FILE NAME = 15R0654-PLAN-01 - PVMK04

USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNIVERSITY PARKWAY ROADWAY RESURFACING PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET NO. 12 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	12
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F67	



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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.

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

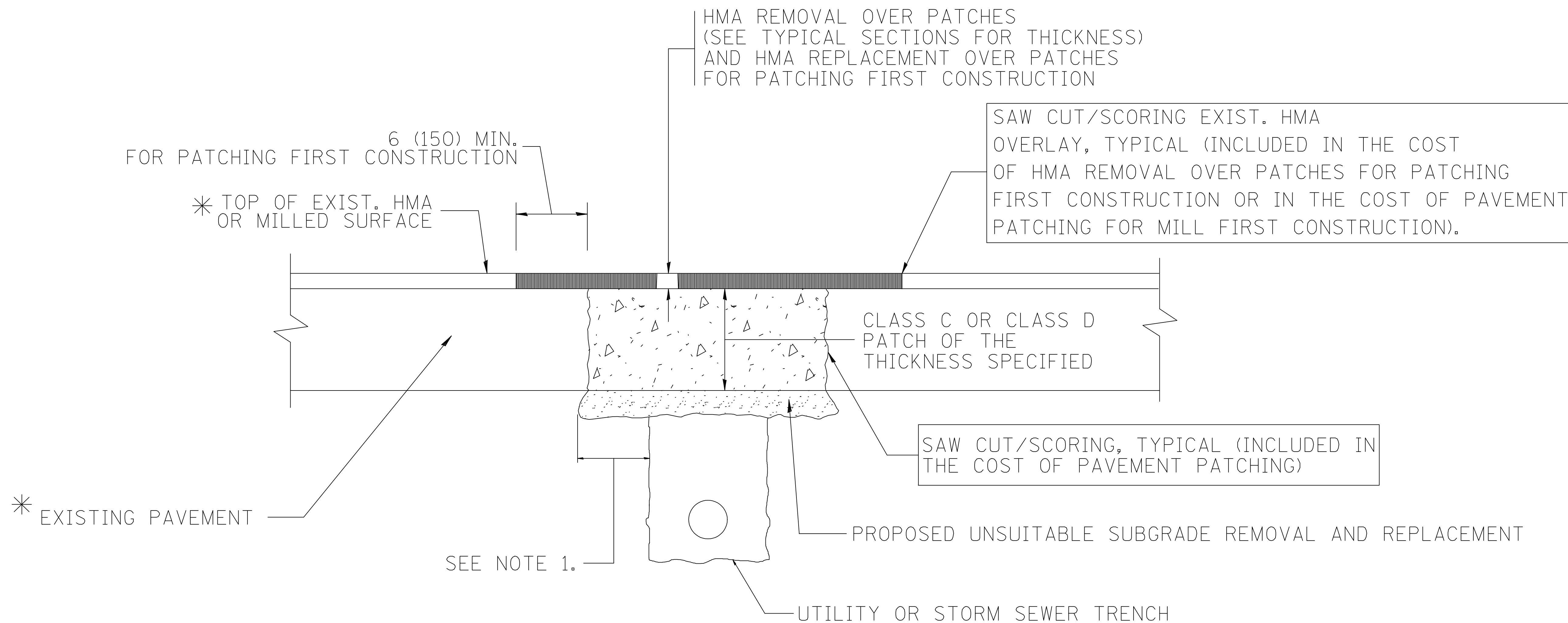
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = 15R0654-DTLS-01 - BD-08	USER NAME =	DESIGNED — ERR	REVISED —
		CHECKED — JCP	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 12-27-18	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR	
FRAMES AND LIDS ADJUSTMENT WITH MILLING	
SCALE:	SHEET NO. 13 OF 22 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	13
BD600-03 (BD-8)			CONTRACT NO. 61F67	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = 15R0654-DTLS-01 - BD-22

USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-27-18	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

SCALE: SHEET NO. 14 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	14
BD400-04 (BD-22)			CONTRACT NO. 61F67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

18" (450) MAX.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

T/2 *

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

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

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

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

SEEDING, SALT TOLERANT AND TOPSOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SEEDING IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

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

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

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

BASIS OF PAYMENT:

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME = 15R0654-DTLS-01 - BD-24

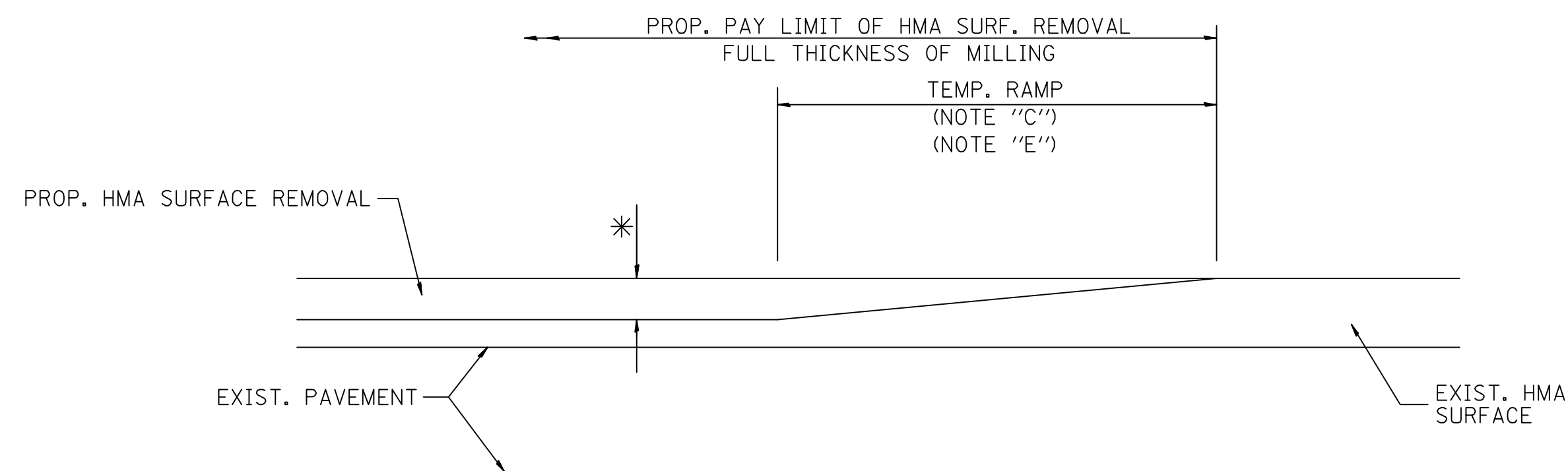
USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-27-18	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

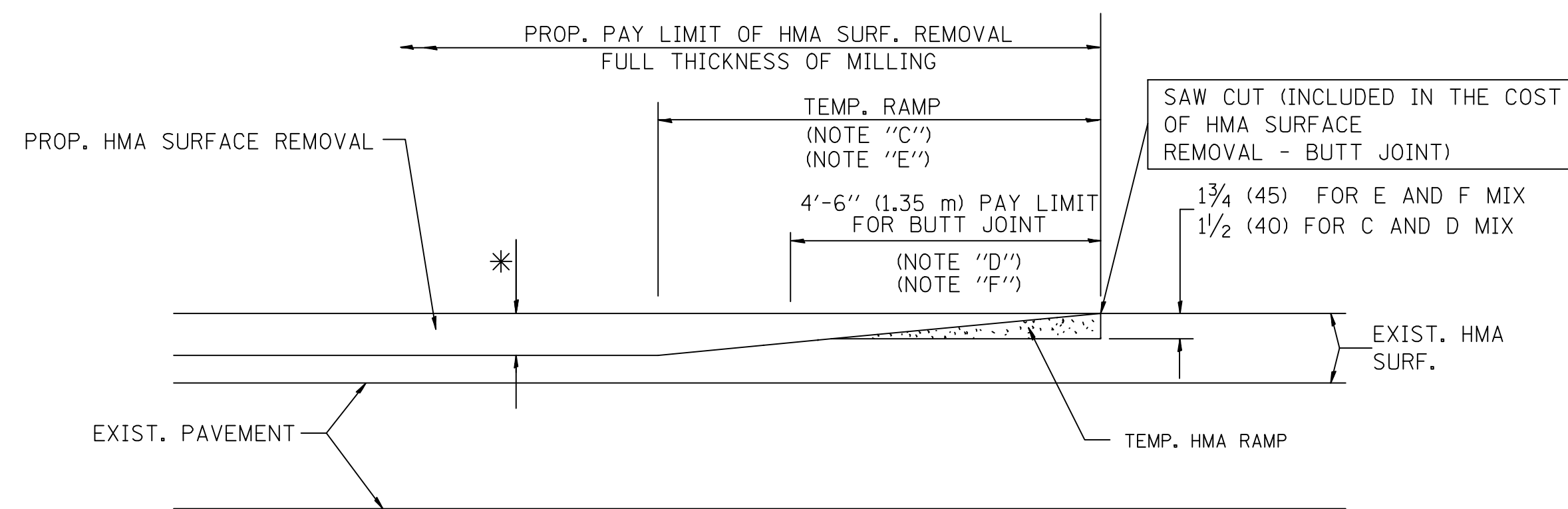
SCALE: SHEET NO. 15 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	15
BD600-06 (BD-24)			CONTRACT NO. 61F67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

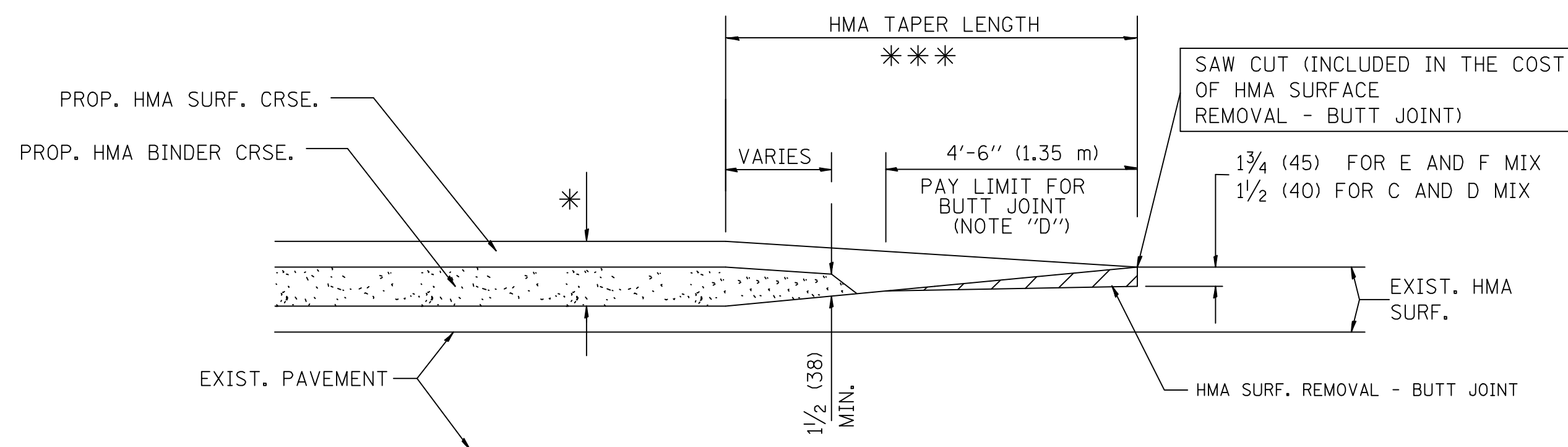
OPTION 1



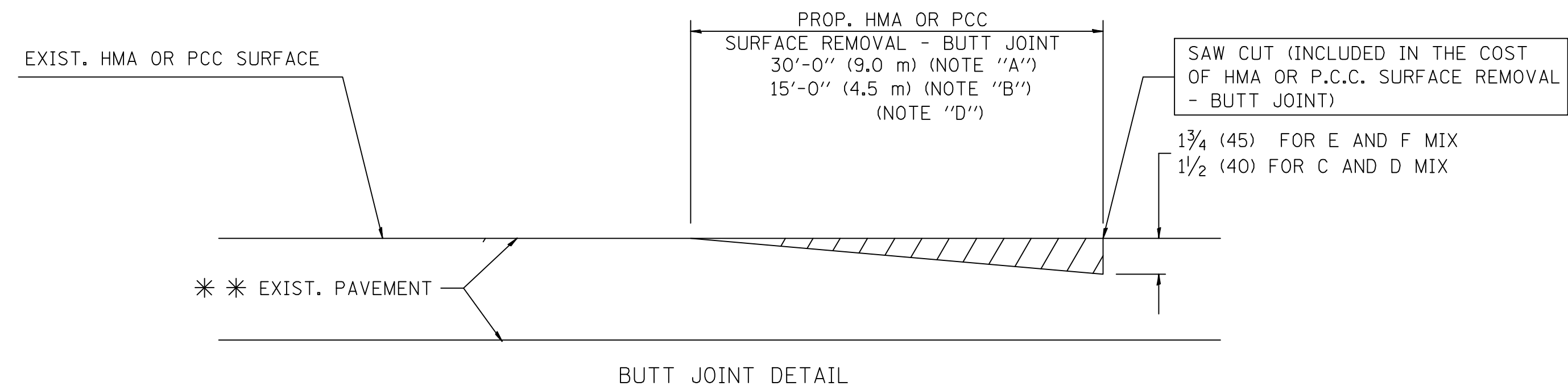
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

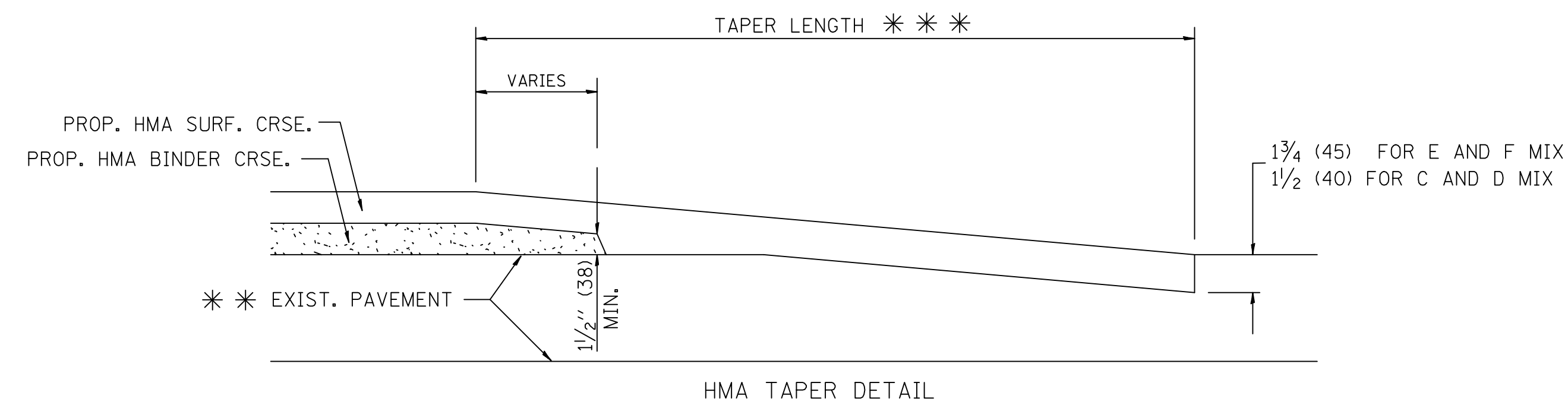
TYPICAL TEMPORARY RAMP



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



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

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

NOTES

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

BASIS OF PAYMENT:

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

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

FILE NAME = 15R0654-DTLS-01 - BD-32

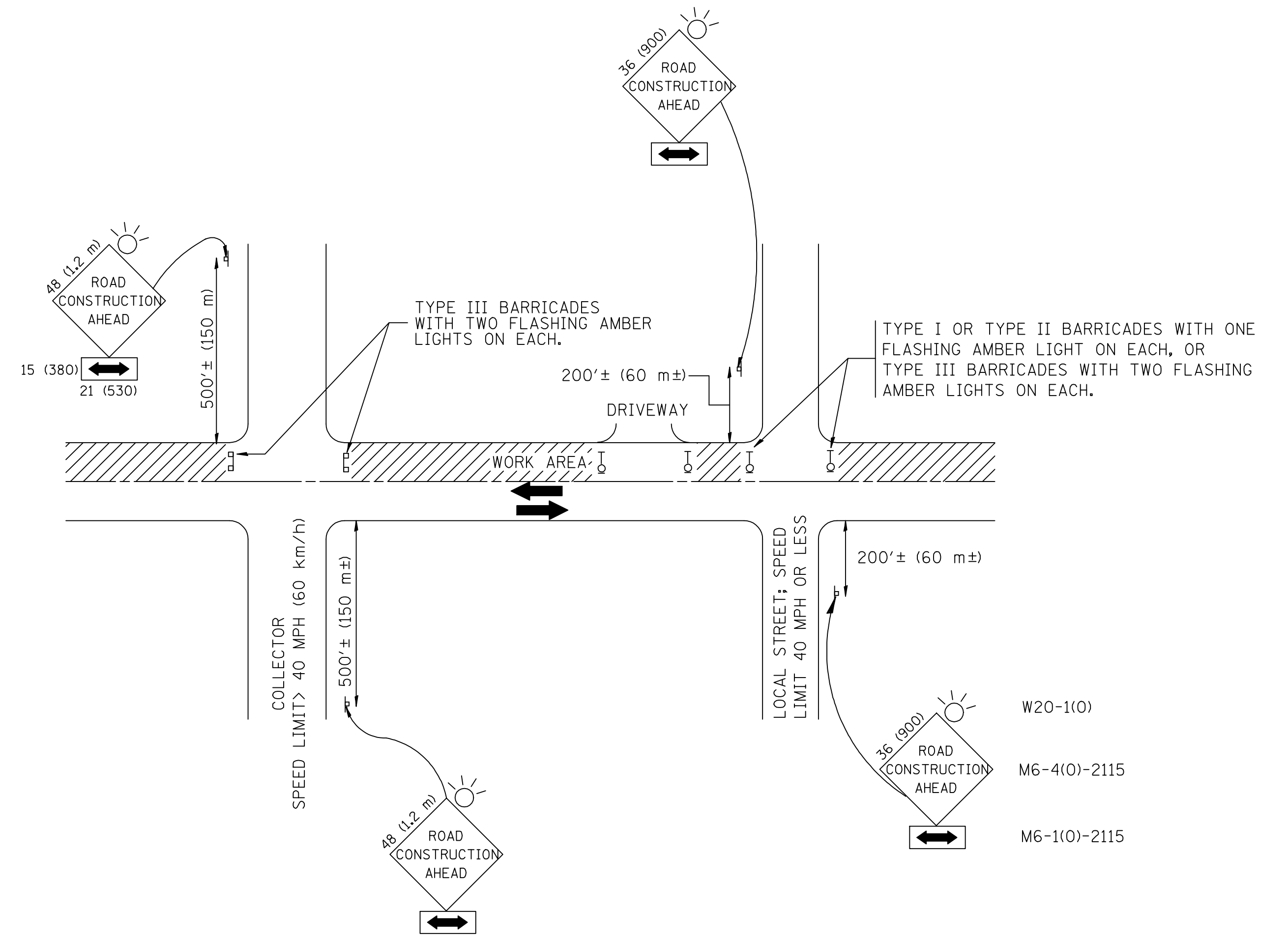
USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-27-18	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: SHEET NO. 16 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	16
BD400-05 BD32		CONTRACT NO. 61F67		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

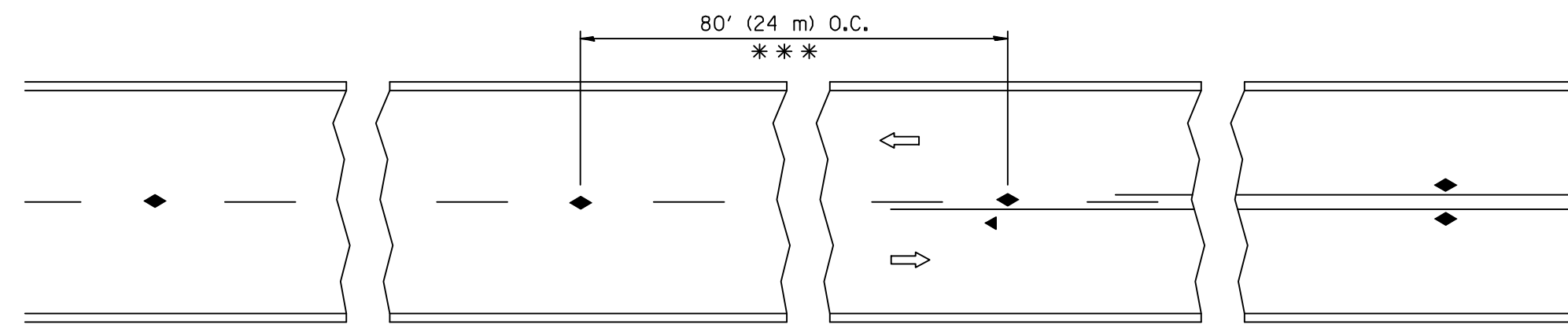
FILE NAME = 15R0854-DTLS-01 - TC-10	USER NAME =	DESIGNED — ERR	REVISED —
		CHECKED — JCP	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 12-27-18	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

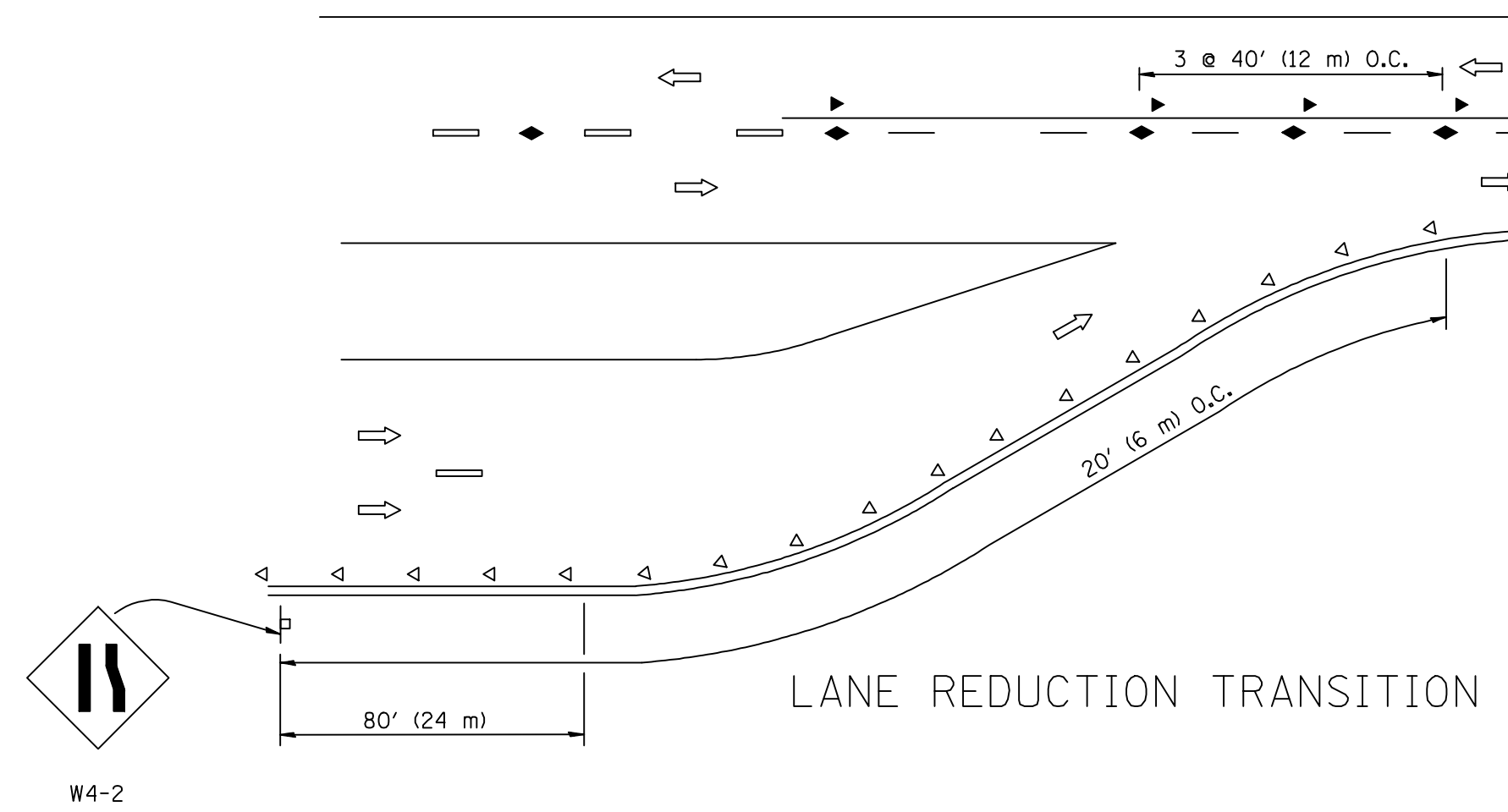
SCALE: SHEET NO. 17 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	17
TC-10			CONTRACT NO. 61F67	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

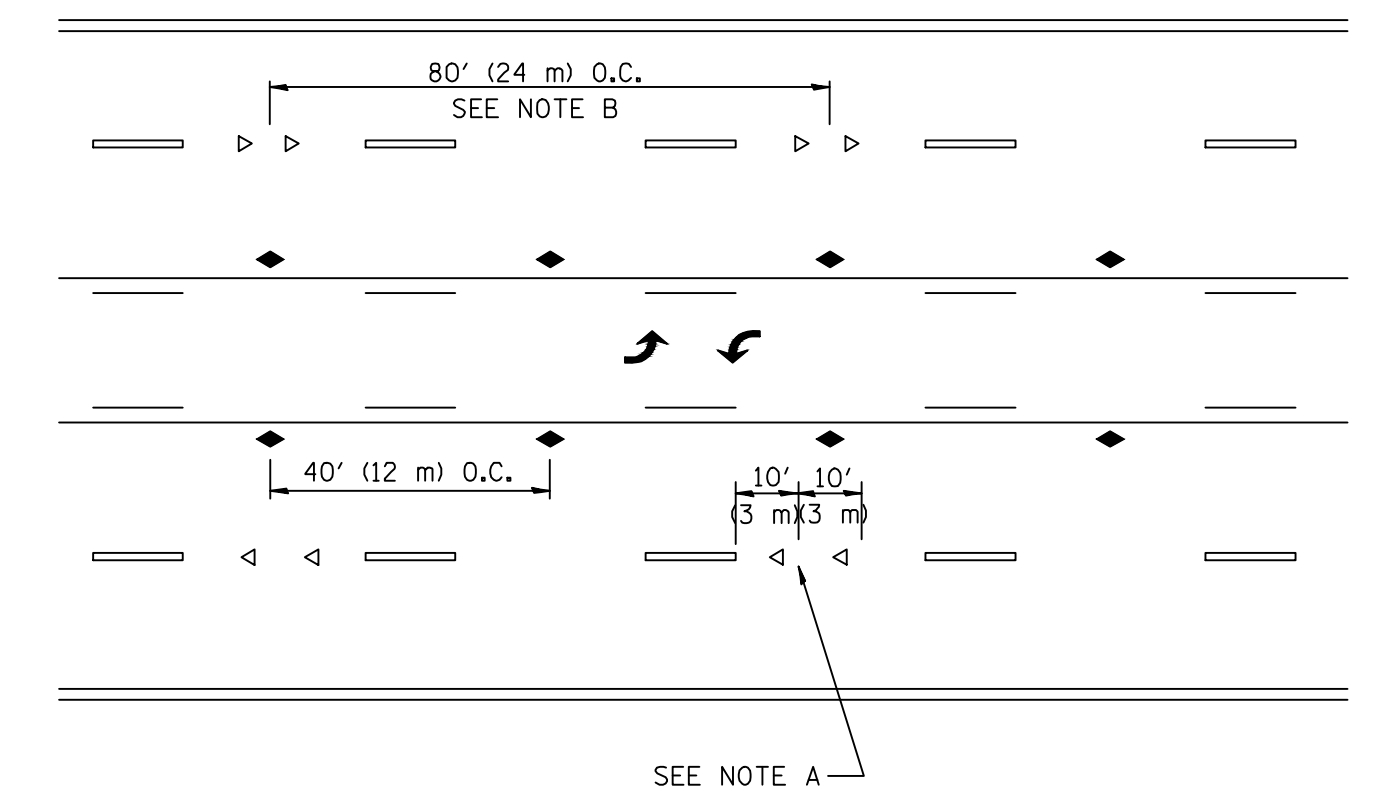


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

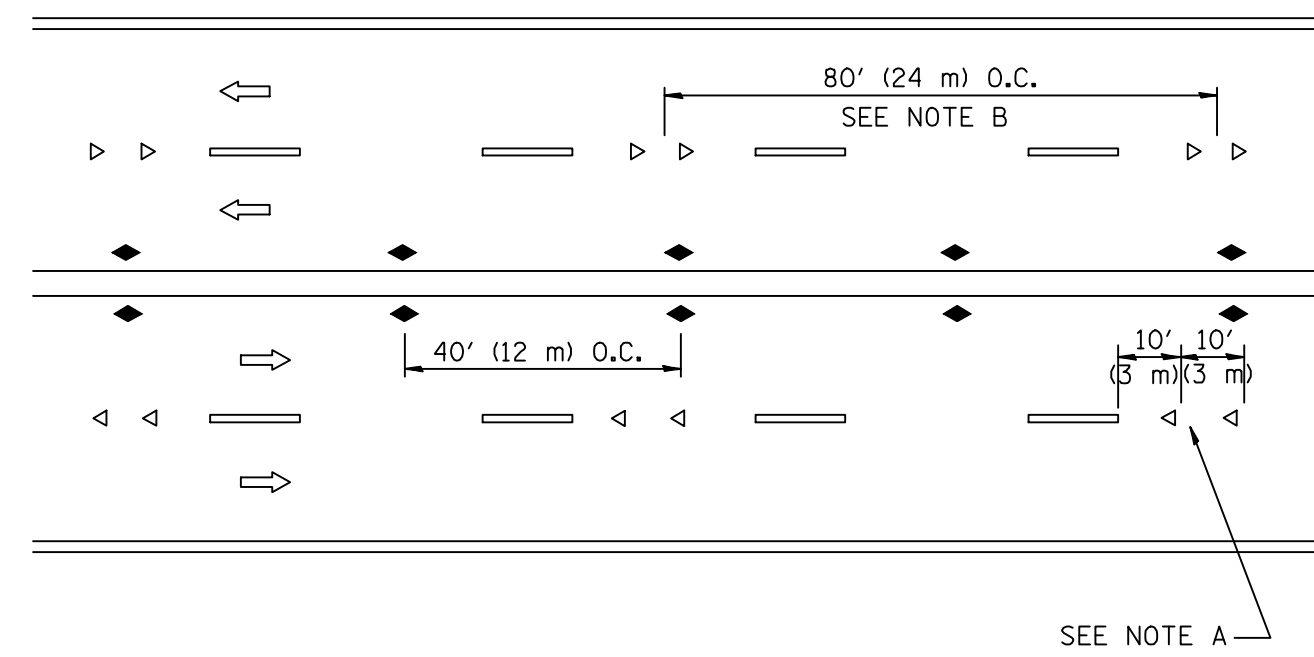
TWO-LANE/TWO-WAY



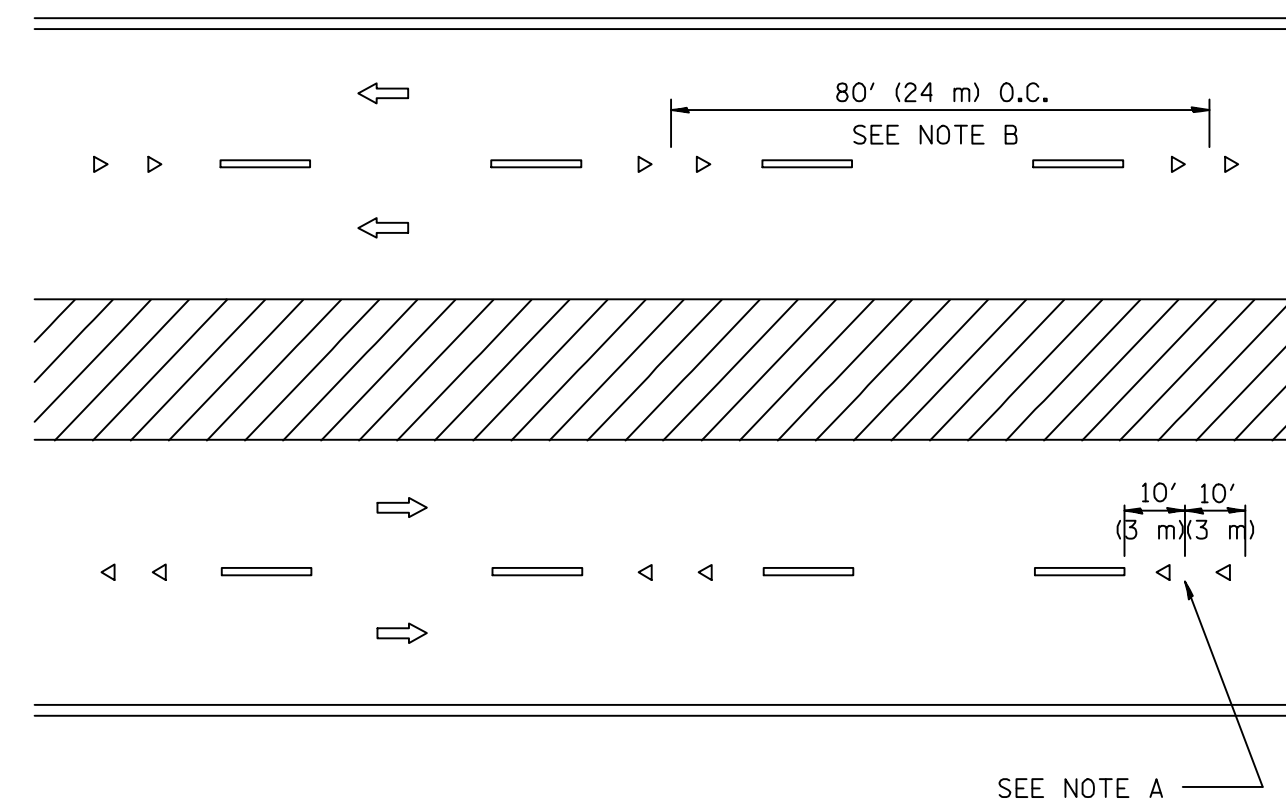
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

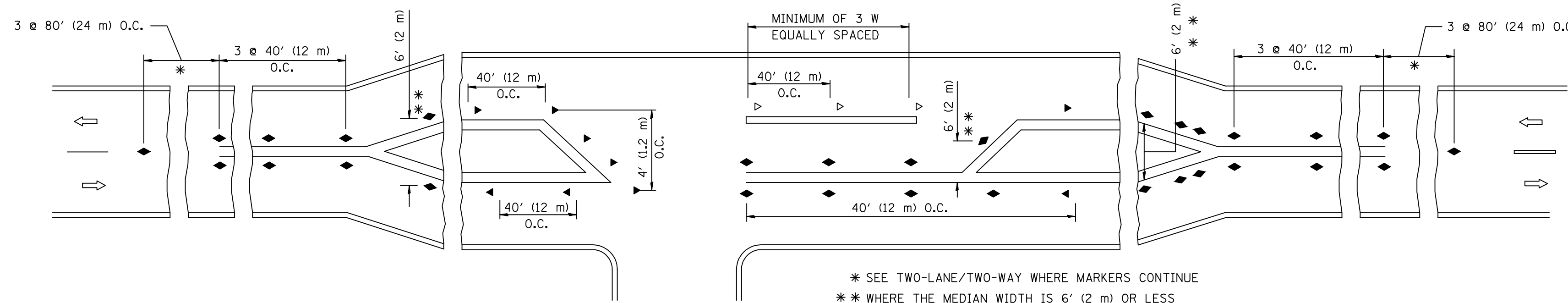
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- 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.

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

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

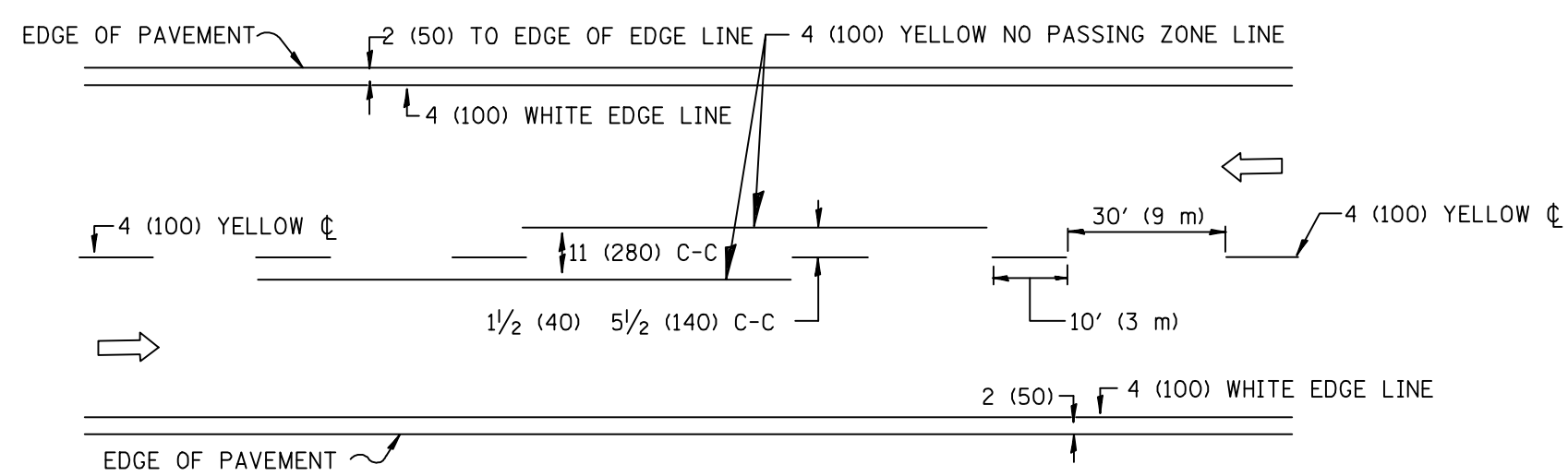
FILE NAME = 15R0654-DTLS-01 - TC-11

USER NAME =	DESIGNED — ERR	REVISED —
	CHECKED — JCP	REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 12-27-18	CHECKED — ACAD	REVISED —

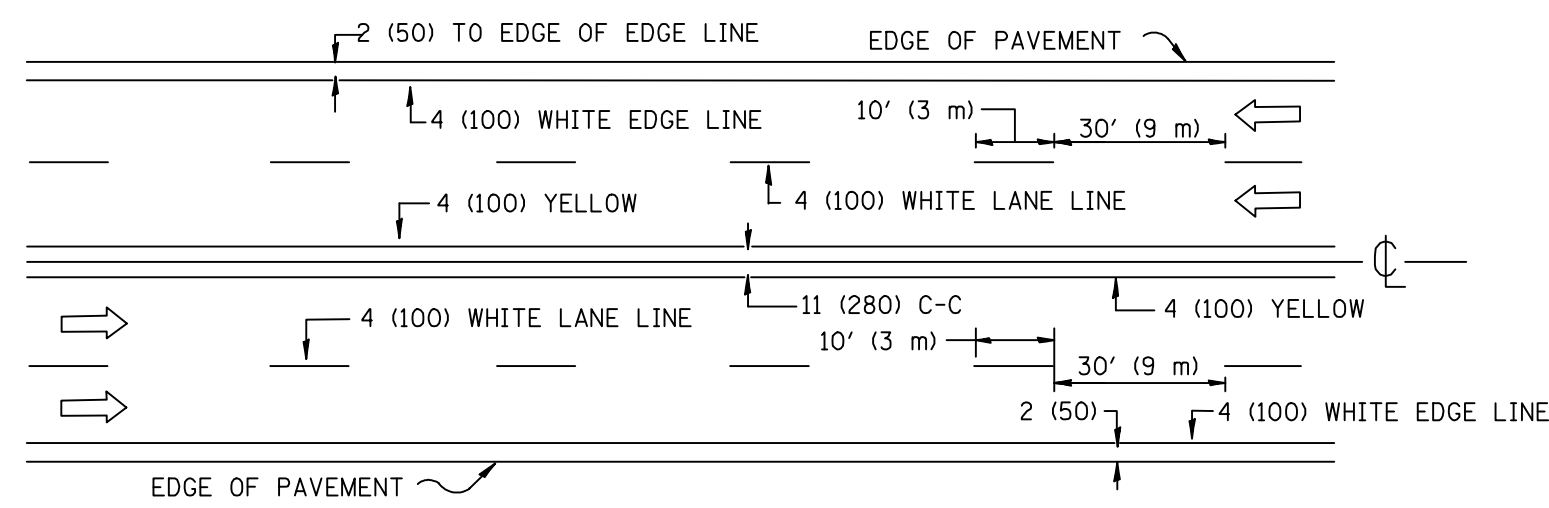
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS	
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	
SCALE:	SHEET NO. 18 OF 22 SHEETS
STA.	TO STA.

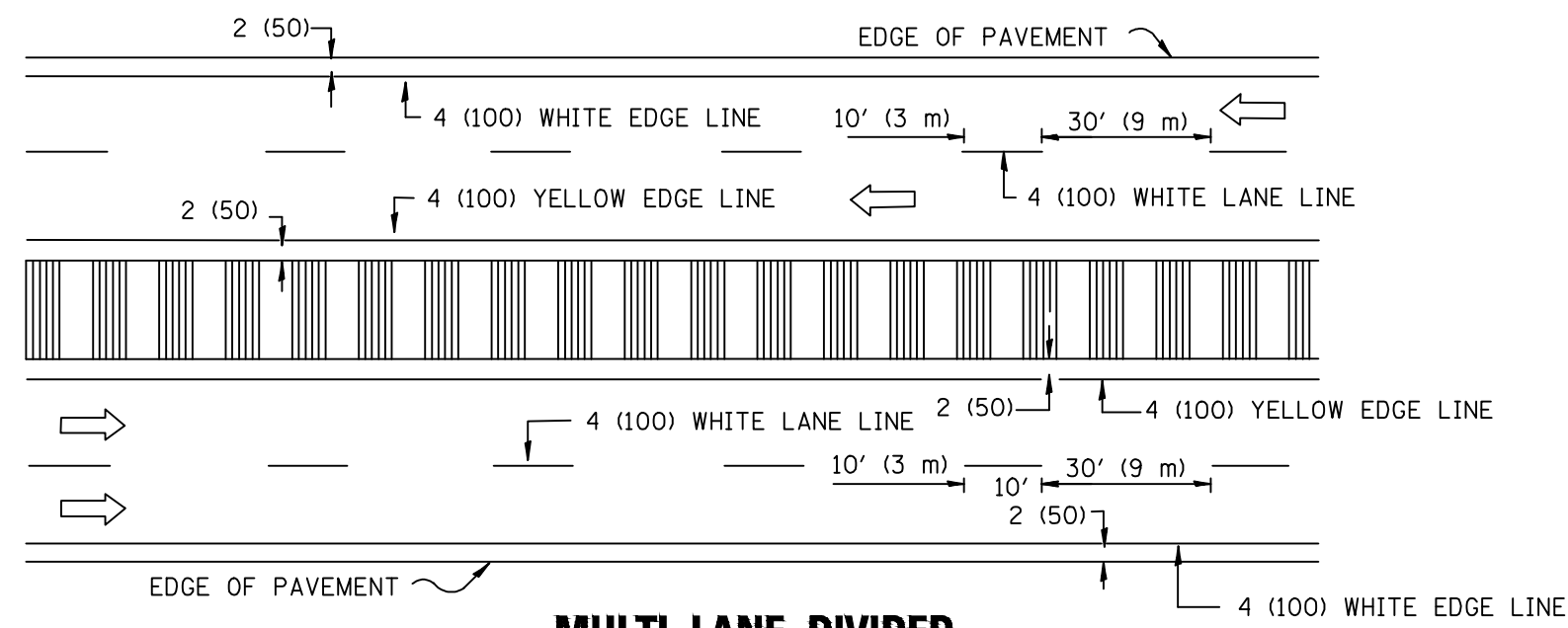
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	18
TC-11		CONTRACT NO. 61F67		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



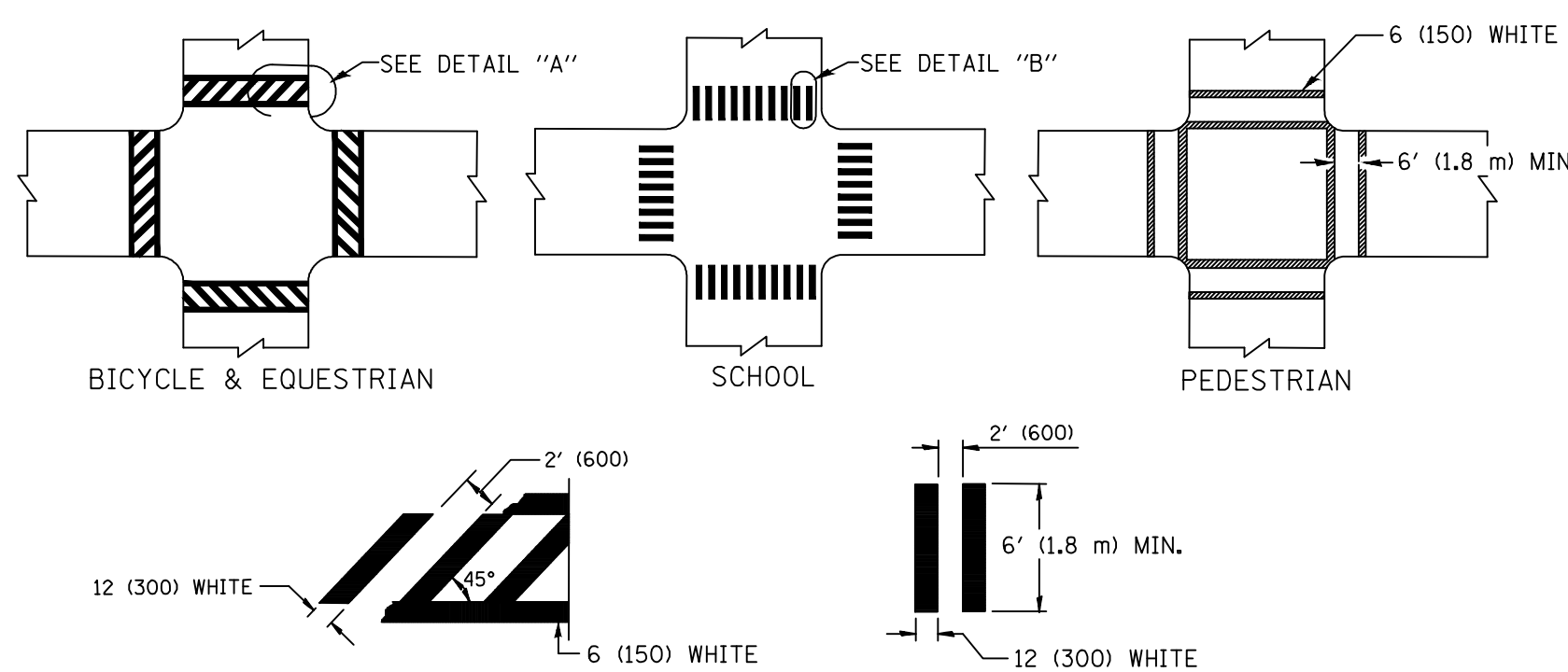
2-LANE ROADWAY



MULTI-LANE UNDIVIDED



TYPICAL LANE AND EDGE LINE MARKING

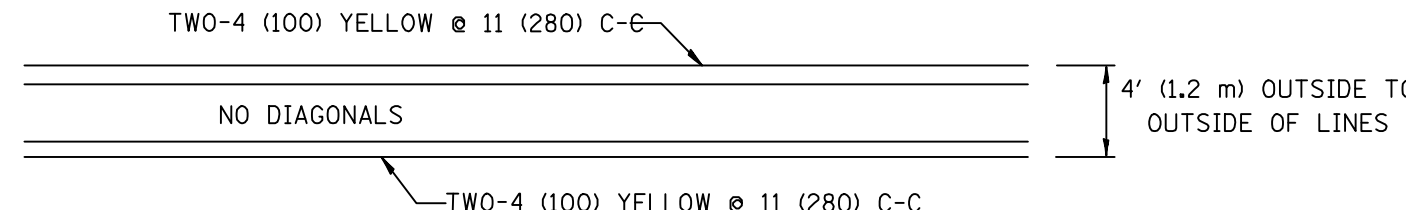


DETAIL "A"

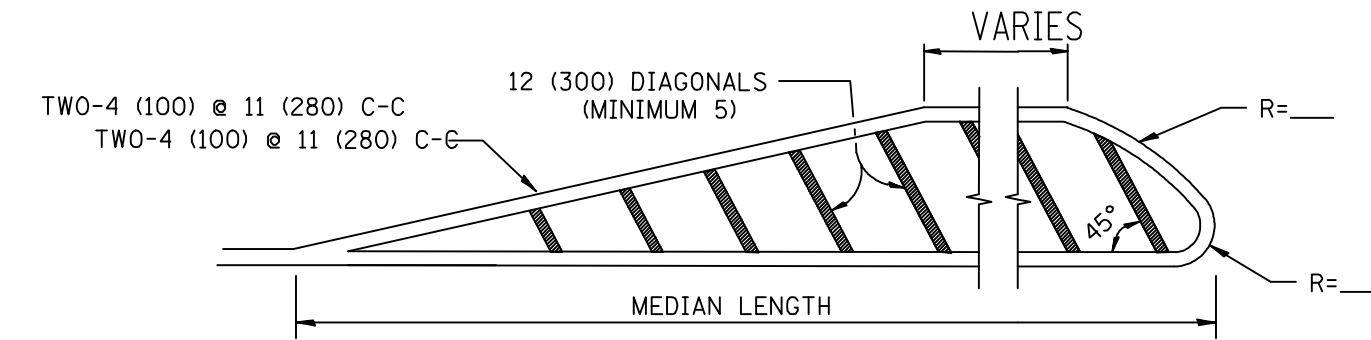
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



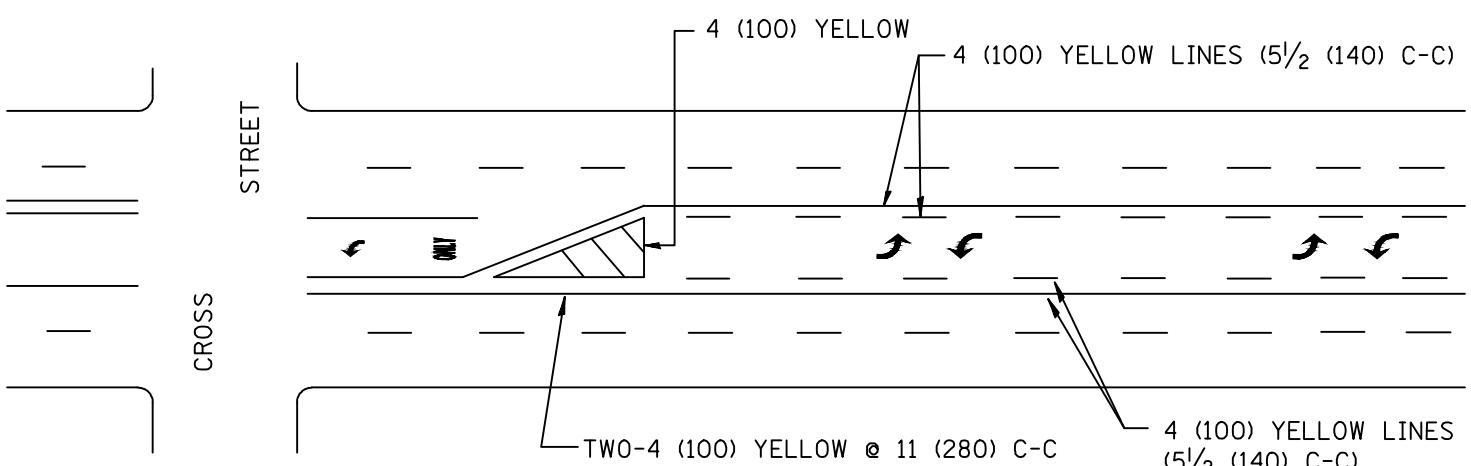
4' (1.2 m) WIDE MEDIANS ONLY



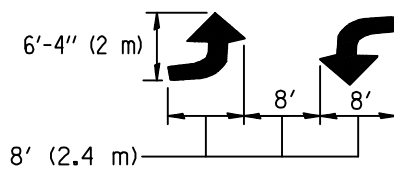
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

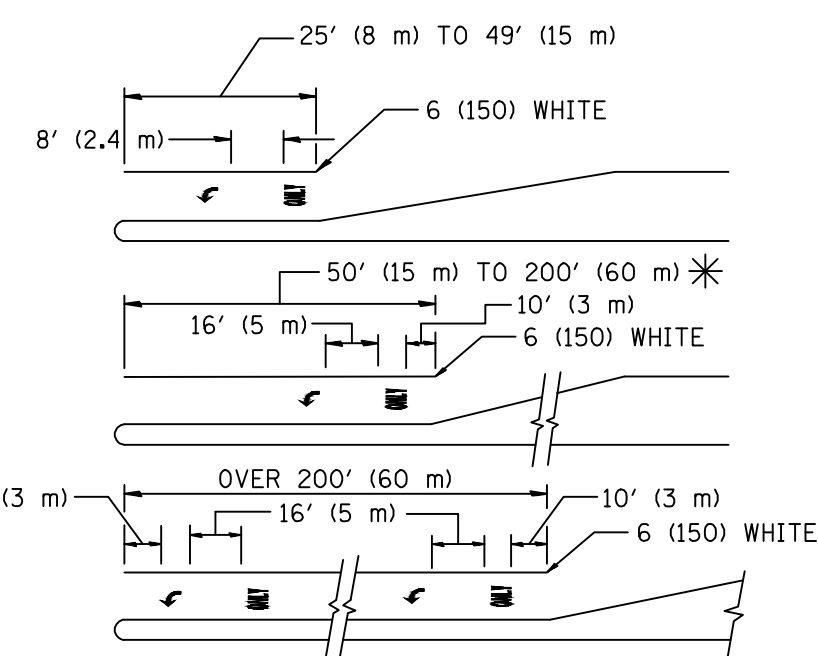


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

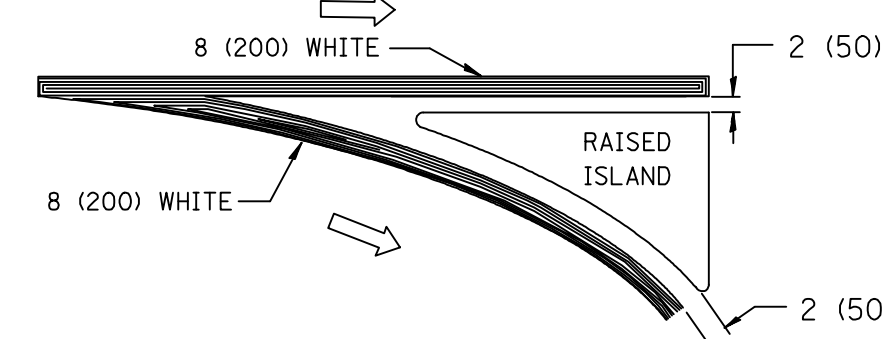
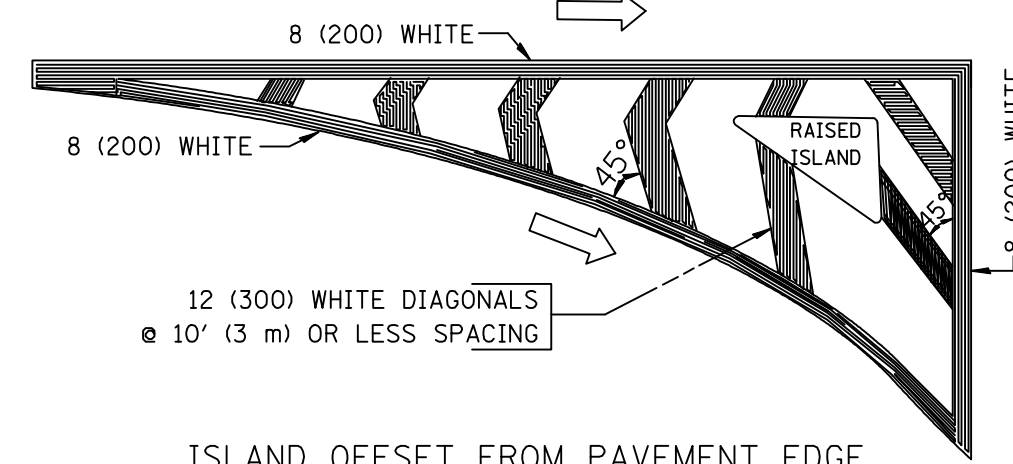


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
* AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

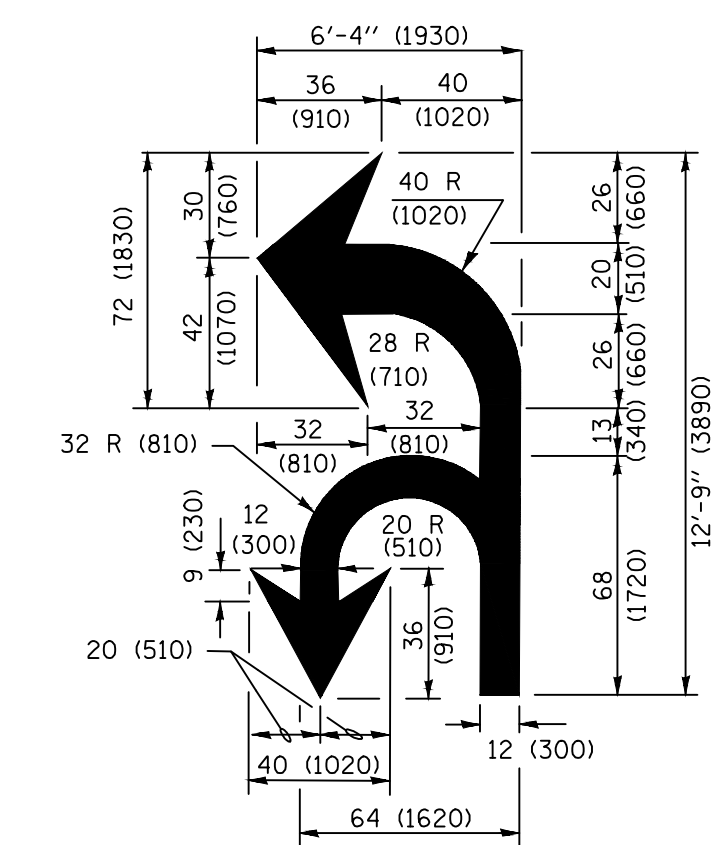
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

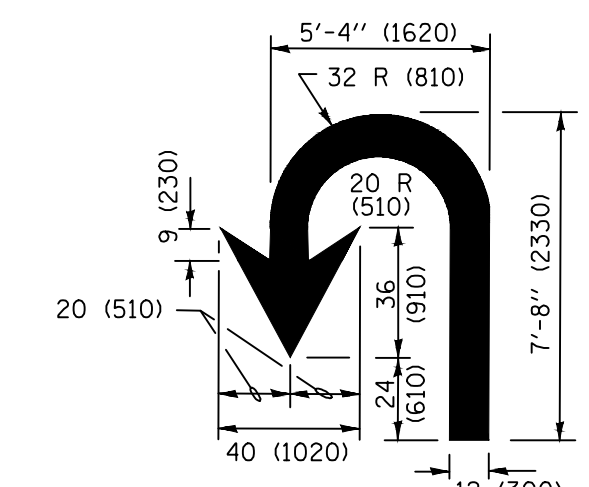
TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES; FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

FILE NAME = 15R0654-DTLS-01 - TC-13

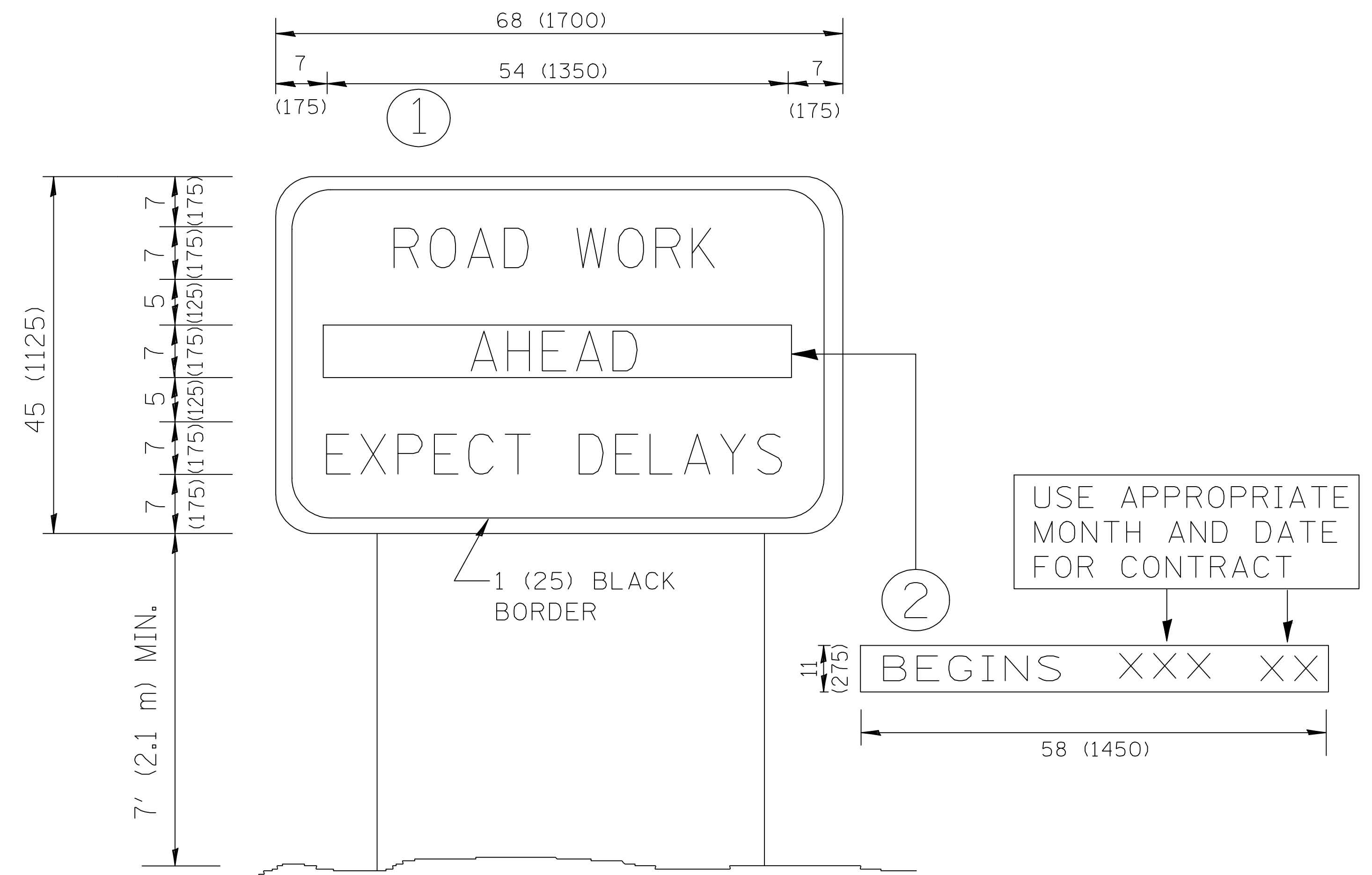
USER NAME =	DESIGNED -- ERR	REVISED --
CHECKED -- JCP	REVISED --	
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-27-18	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: SHEET NO. 19 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	19
TC-13		CONTRACT NO. 61F67		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

FILE NAME = 15R0654-DTLS-01 - TC-22

USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-27-18	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

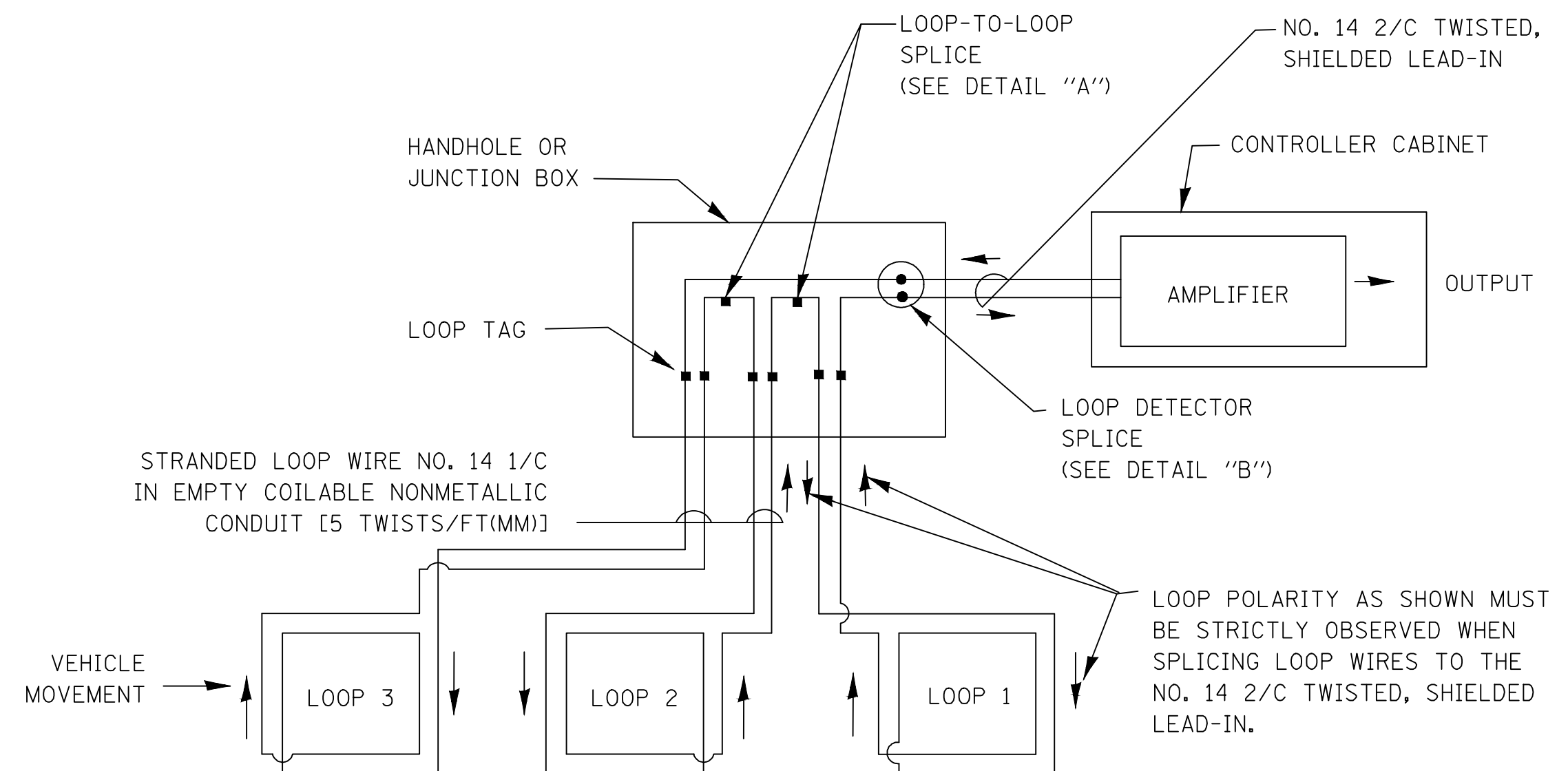
ARTERIAL ROAD
INFORMATION SIGN

SCALE: SHEET NO. 20 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	20
TC-22			CONTRACT NO. 61F67	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

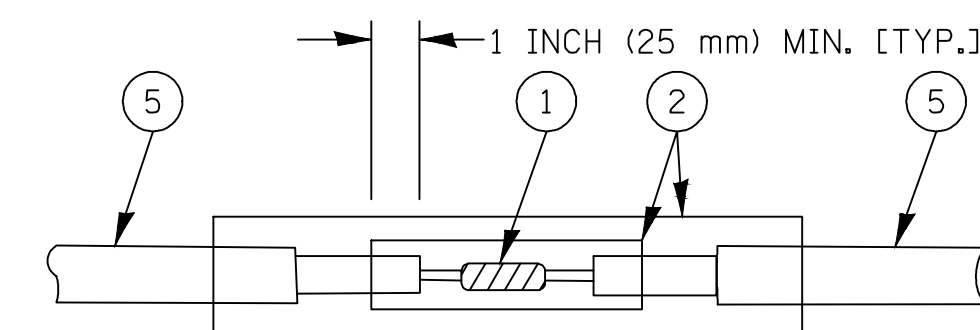
LOOP DETECTOR NOTES

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 HANDHOLE. 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.

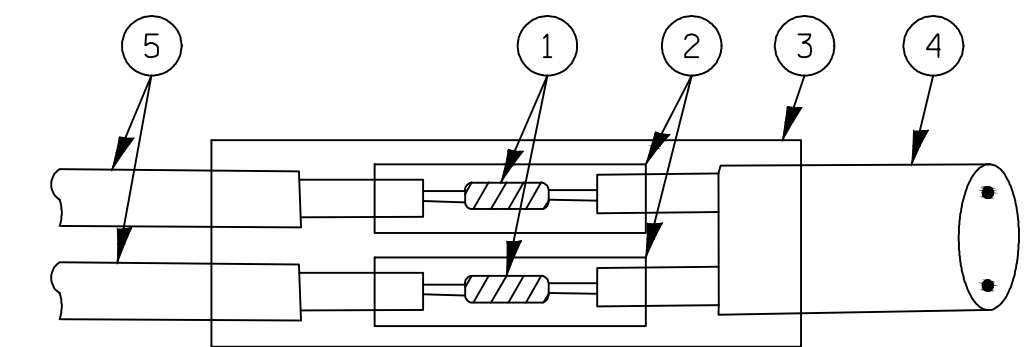


DETECTOR LOOP WIRING SCHEMATIC

- 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.

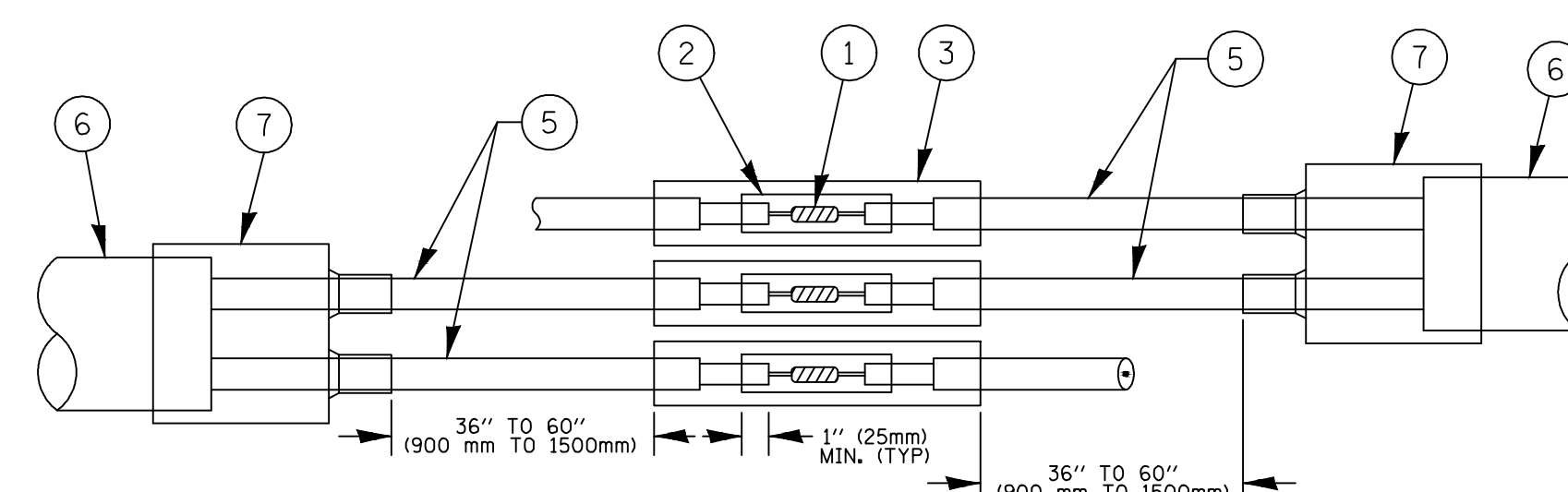


DETAIL "A"
LOOP-TO-LOOP SPLICE

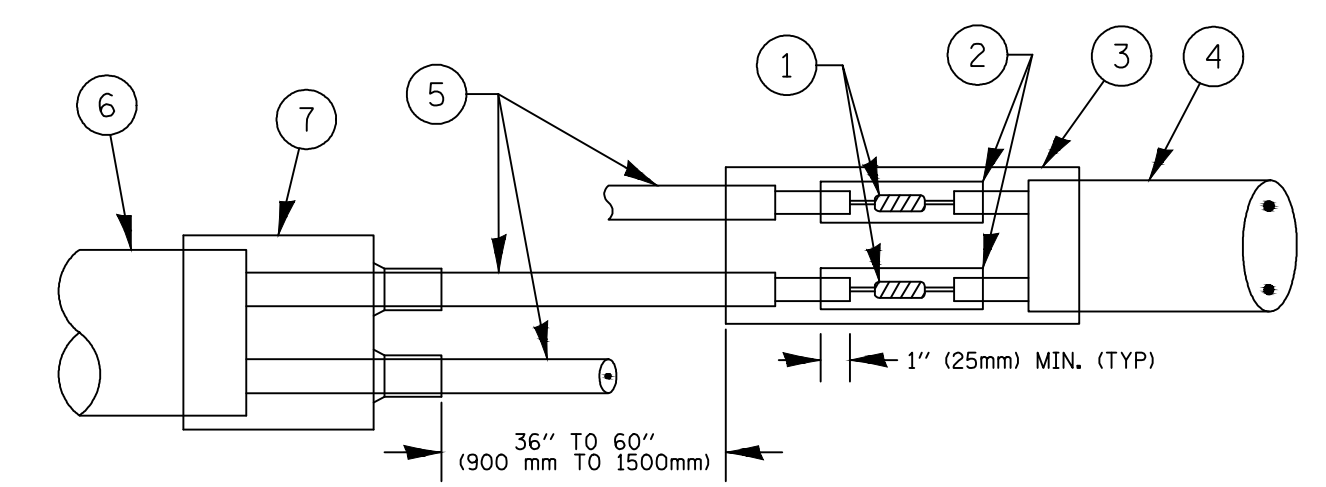


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

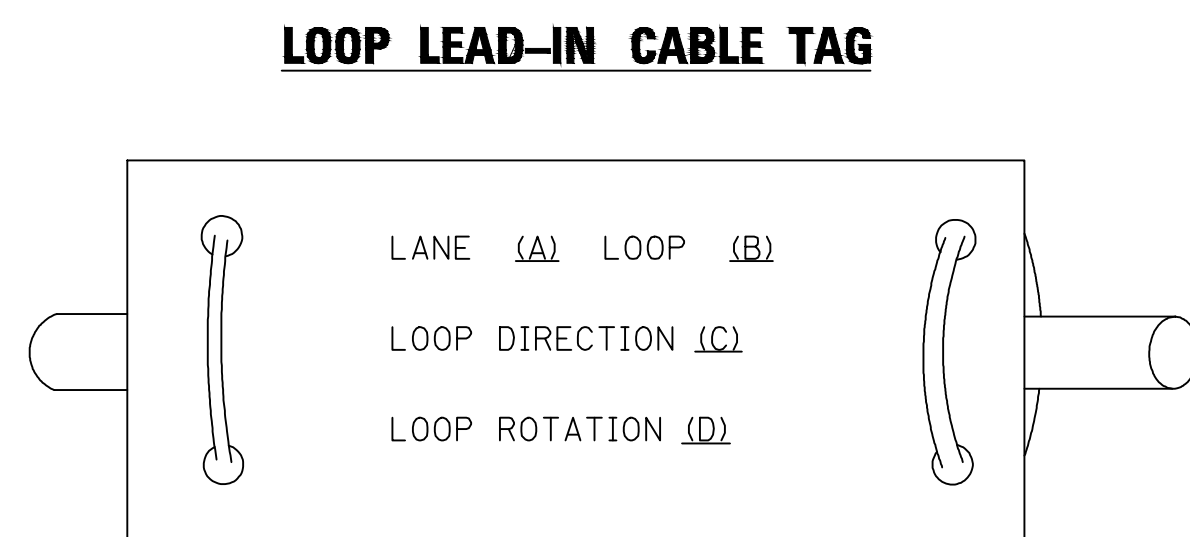


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- ① 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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PREFORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL



- 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.

FILE NAME = 15R0654-DTLS-01 - TS-05

USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-27-18	CHECKED -- AG	REVISED --

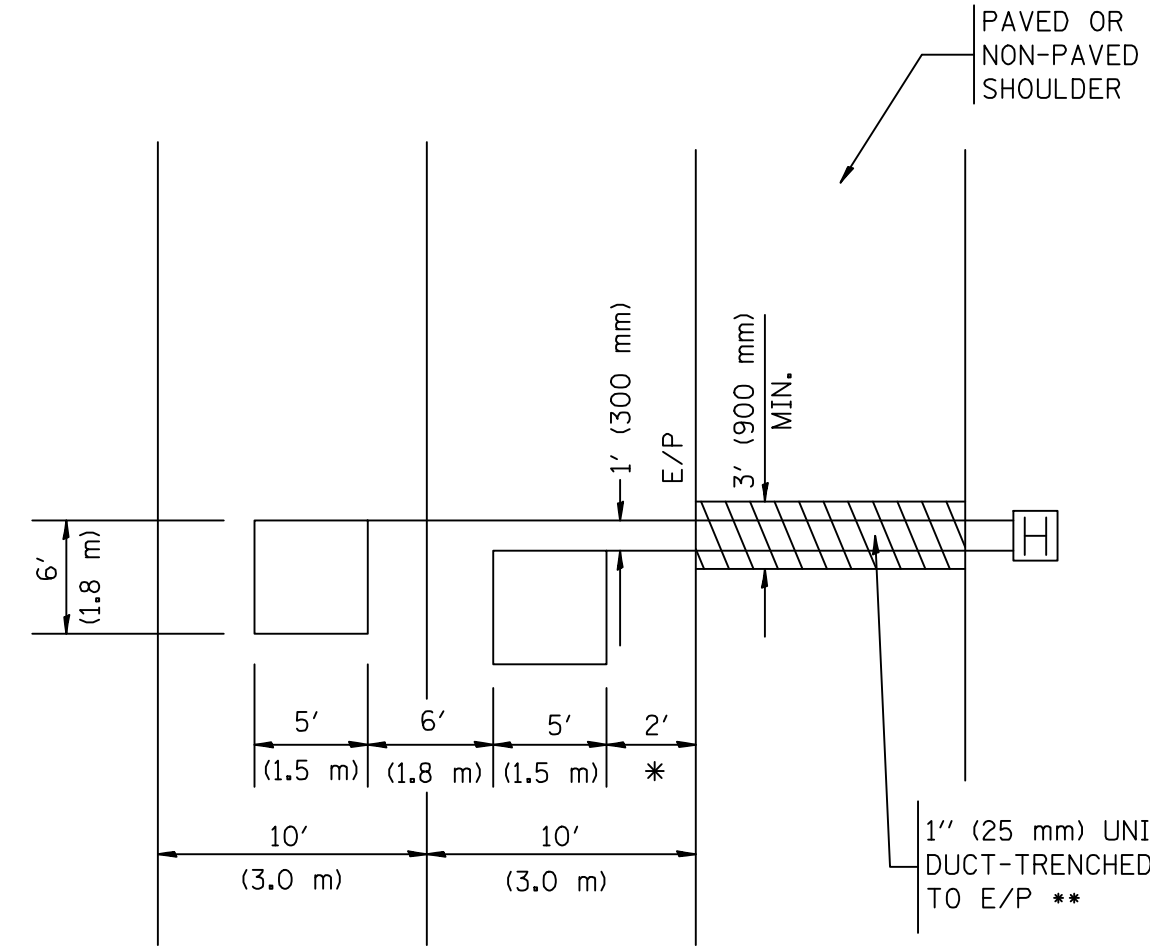
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE:	SHEET NO. 21 OF 22 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	21
TS-05		CONTRACT NO. 61F67		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

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

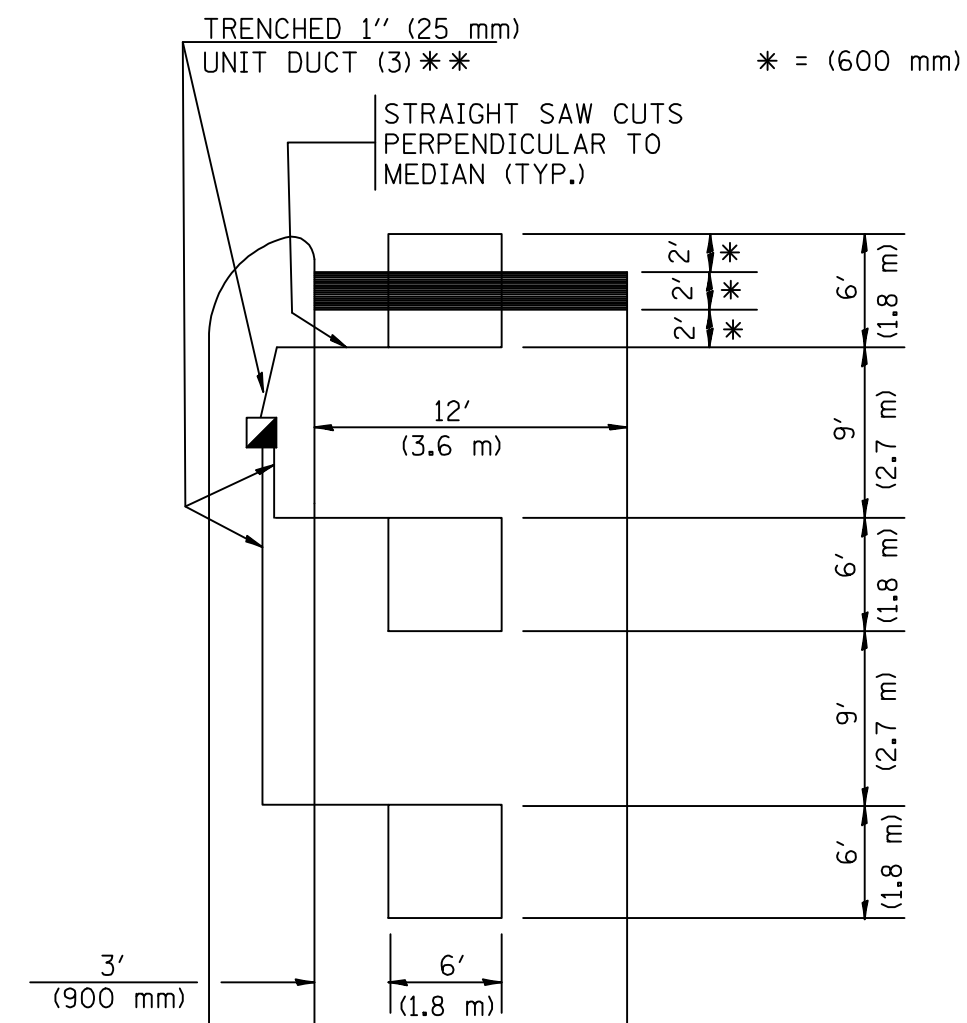


* = (600 mm)

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

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

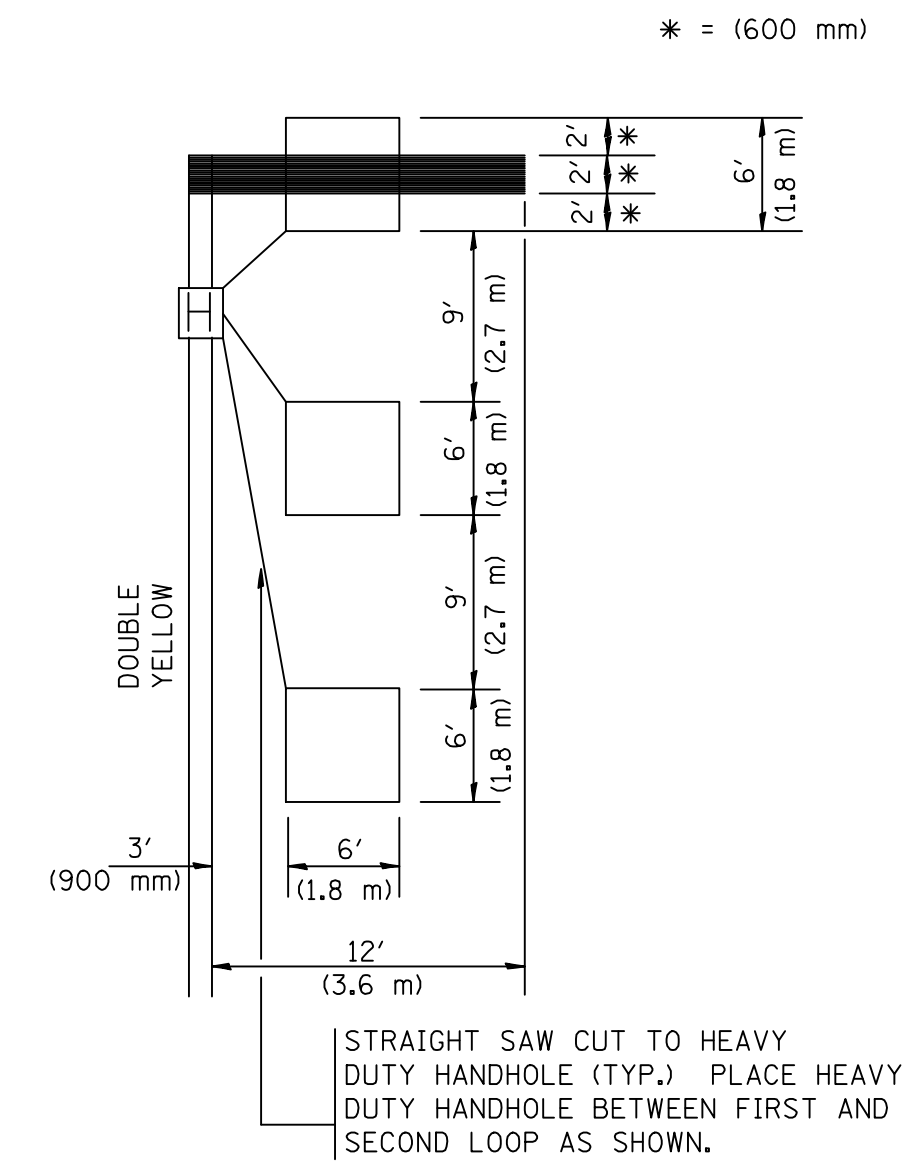
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

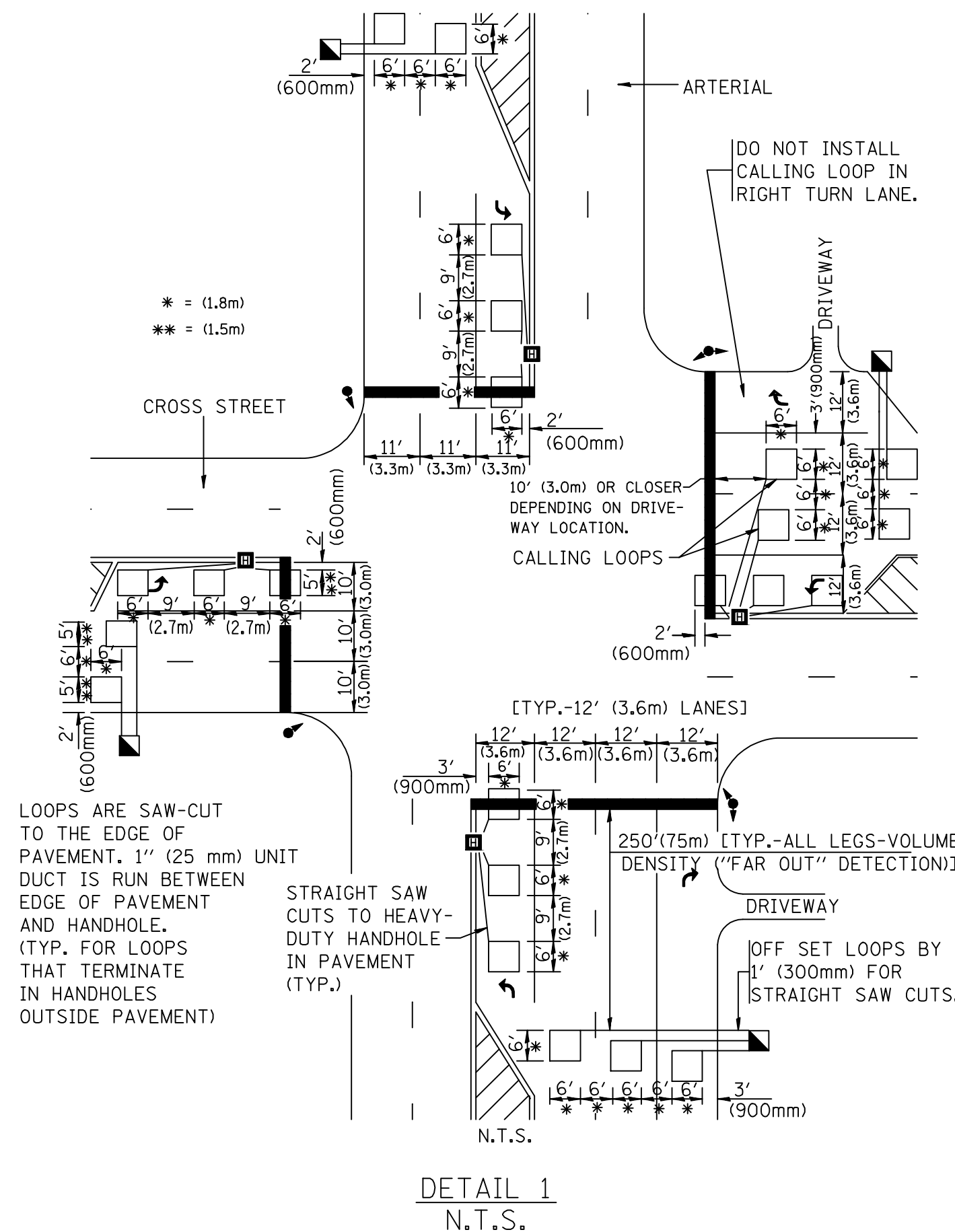
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



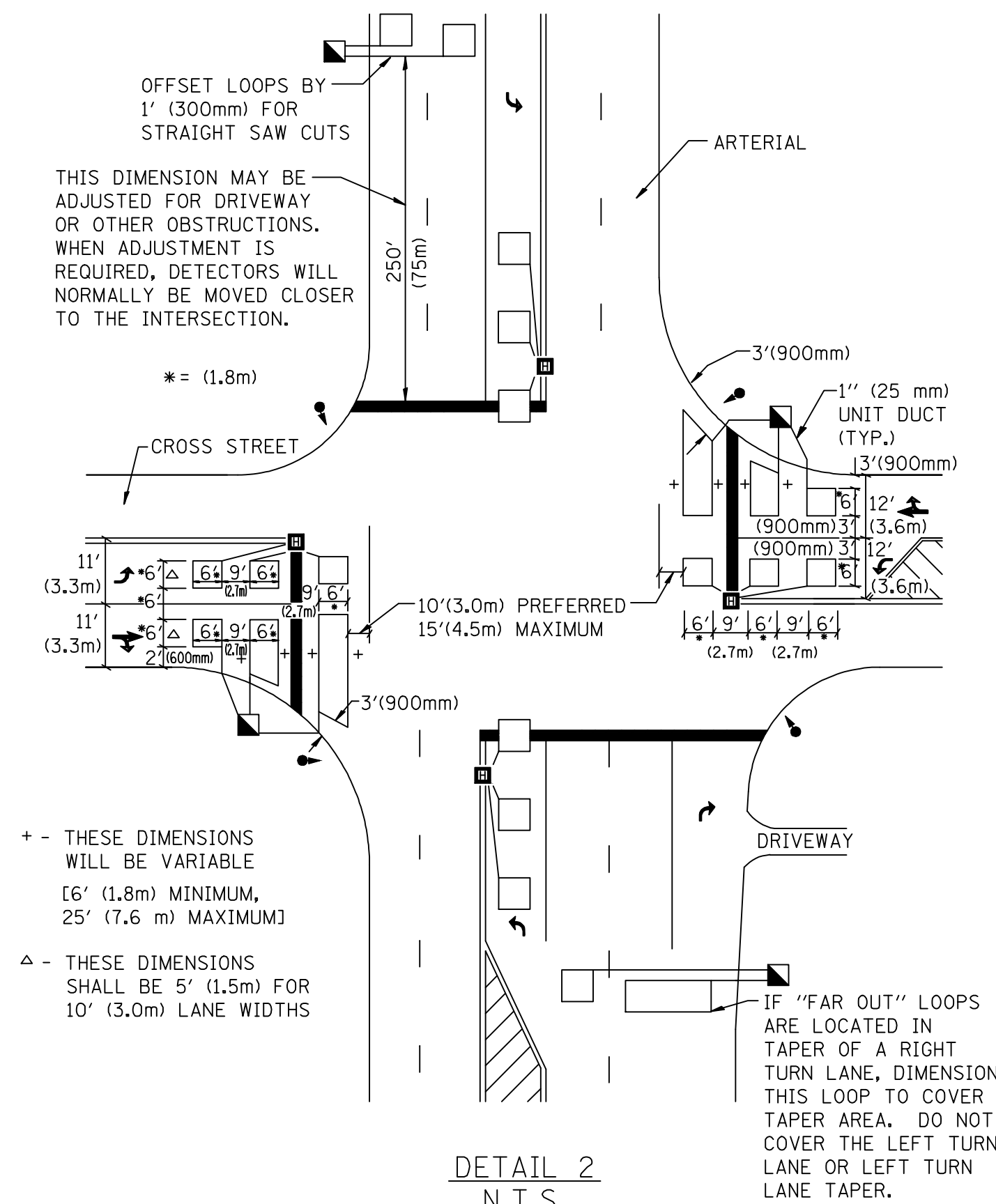
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND 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.

FILE NAME = 15R0654-DTSL-01 - TS-07

USER NAME =	DESIGNED -- ERR	REVISED --
	CHECKED -- JCP	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-27-18	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

SCALE: SHEET NO. 22 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	18-00028-00-RS	WILL	22	22
TS-07		CONTRACT NO. 61F67		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		