

002

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	1
CONTRACT NO. 60Y74				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

F.A.U. 1312: GOLF ROAD  
OVERLOOK DRIVE TO HARMS ROAD  
SECTION: 584N(14)  
INTERSECTION IMPROVEMENT, CHANNELIZATION,  
AND TRAFFIC SIGNAL MODERNIZATION  
PROJECT: CMAQ-1G4R(981)  
COOK COUNTY  
C-91-012-15

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE OF MORTON GROVE AND COOK COUNTY FOREST PRESERVE

**TRAFFIC DATA:**

**AVERAGE DAILY TRAFFIC**

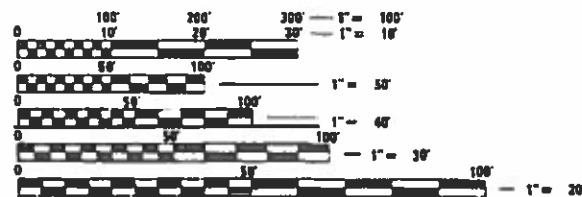
GOLF RD (2018): 36,700  
HARMS RD (2018): 10,100

**POSTED SPEED:**

GOLF RD (WEST LEG): 45 MPH  
GOLF RD (EAST LEG): 35 MPH  
HARMS RD (NORTH LEG): 35 MPH  
HARMS RD (SOUTH LEG): 25 MPH

**HIGHWAY FUNCTIONAL CLASSIFICATION**

GOLF RD: MINOR ARTERIAL  
HARMS RD: COLLECTOR



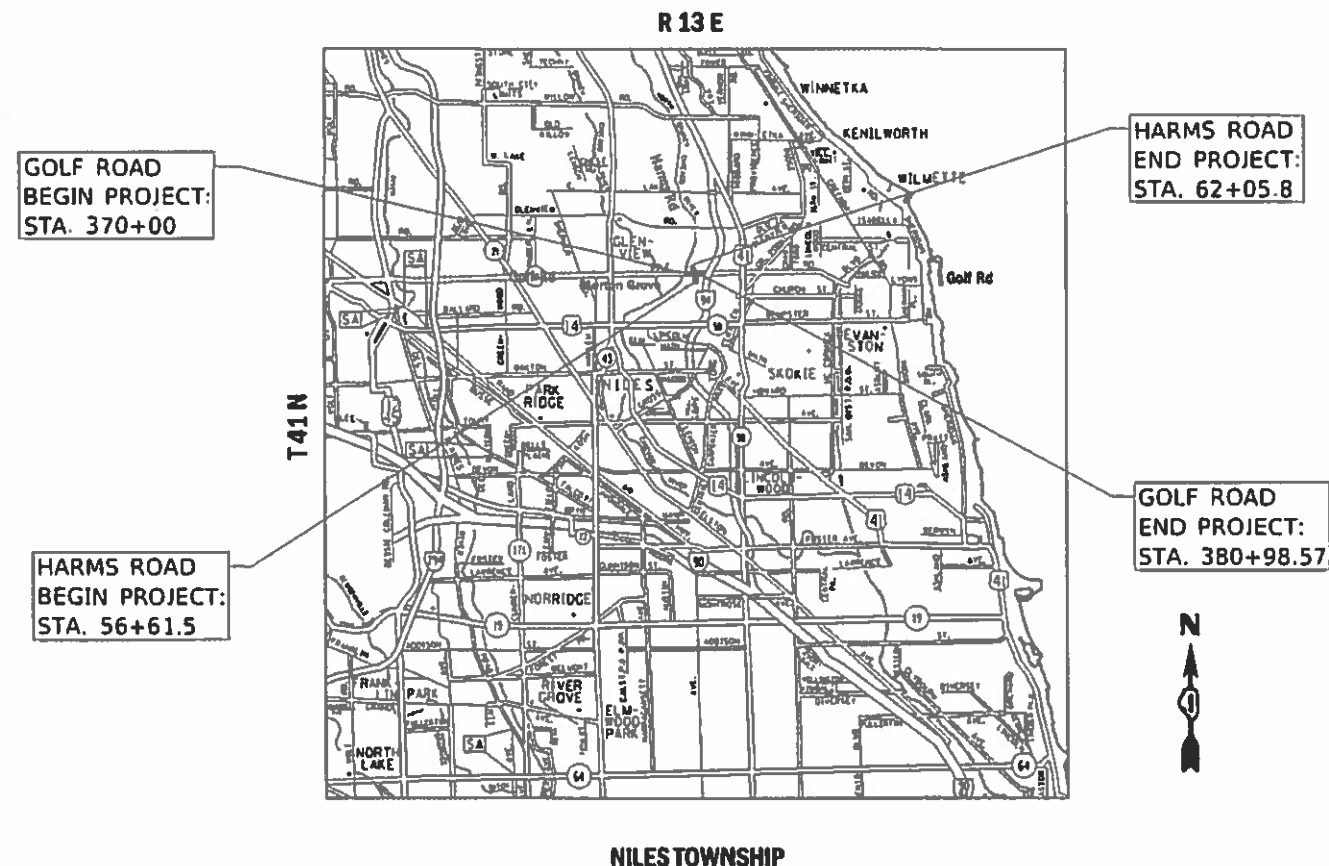
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432  
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 60Y74

GROSS LENGTH = 1644.00 FT. = 0.311 MILE  
NET LENGTH = 1644.00 FT. = 0.311 MILE



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED *August 17, 2019*

*Anthony J. D'Amico* REGIONAL ENGINEER

*Paul J. [Signature]* ENGINEER OF DESIGN AND ENVIRONMENT

*Paul J. [Signature]* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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**LIST OF STATE STANDARDS**

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420106-06	36' (10.8m) JOINTED PCC PAVEMENT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
442101-09	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
601001-05	PIPE UNDERDRAINS
602011-02	CATCH BASIN, TYPE C
602301-04	INLET, TYPE A
604001-05	FRAME AND LIDS, TYPE 1
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-04	CORRUGATED PC CONCRETE MEDIANS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24'' (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



**GENERAL NOTES**

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
2. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGE OF MORTON GROVE, AND COOK COUNTY FOREST PRESERVE.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS. USE THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUDED IN PLACE)" DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL JOINTS AND FOR TYING PCC PAVEMENT WIDENING TO EXISING CONCRETE PAVEMENT AS SHOWN ON PLANS
6. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
7. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
8. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
9. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
10. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
12. FRAMES AND LIDS ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
13. THE CONTRACTOR SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
14. THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI, ARTERIAL TRAFFIC FIELD ENGINEER AT DON.CHIARUGI@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
15. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMETS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS 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 MIXTURE IS PLACED.
16. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCES TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
17. FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
18. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
19. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
20. 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPERATE PAY ITEM HAS BEEN PROVIDED.
21. FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.
22. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
23. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
24. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
25. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (45 KM/H) OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (45 KM/H). 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).
26. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
27. OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINEED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.
28. THE RESIDENT ENGINEER SHALL VERIFY ALL EXISTING PAVEMENT MARKINGS BEFORE MILLING.
29. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONTRUCTION.
30. PAVEMENT MARKING REMOVAL - WATER BLASTING SHALL BE USED TO REMOVE CONFLICTING PAVEMENT MARKING ON PCC PAVEMENTS AND ON HMA SURFACES OUTSIDE RESURFACING LIMITS UNLESS OTHERWISE SPECIFIED.
31. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
32. CONSTRUCTION ON HARMS ROAD WILL FOLLOW COOK COUNTY STANDARDS P-7 WHERE APPROPRIATE.

FILE NAME =	USER NAME = ldezmaorm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES GOLF ROAD AT HARMS ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\planroom.dot.illinois.gov\IDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\Design\P170809-sht-gennote.dgn		REVISIONS	REVISED -		1312	584N(14)	COOK	73	3			
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -		CONTRACT NO. 60Y74			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 10/18/2019	DATE -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE						ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	24	24						28000510	INLET FILTERS	EACH	4	4				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	89	89						30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	95	95				
20200100	EARTH EXCAVATION	CU YD	544	544						30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	1610	1610				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	95	95						35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	717	717				
20400800	FURNISHED EXCAVATION	CU YD	483	483						35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SO YD	193	193				
20800150	TRENCH BACKFILL	CU YD	39	39						40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6801	6801				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	285	285						40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	14	14				
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1090	1090						40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	120	120				
25000210	SEEDING, CLASS 2A	ACRE	0.7	0.7						40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4, 75, N50	TON	416	416				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	42	42						40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	5	5				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	42	42						40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	987	987				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	42	42						42000511	PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)	SO YD	230	230				
25100630	EROSION CONTROL BLANKET	SO YD	3402	3402														
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60														
28000400	PERIMETER EROSION BARRIER	FOOT	2169	2169														

\* SPECIALTY ITEM  
 △ NON-PARTICIPATING ITEM

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE		
42001300	PROTECTIVE COAT	SO YD	463	463				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	208	208				
* 42400800	DETECTABLE WARNINGS	SO FT	50	50				
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	9164	9164				
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	48	48				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1263	1263				
44000600	SIDEWALK REMOVAL	SO FT	300	300				
44003100	MEDIAN REMOVAL	SO FT	5809	5809				
44200982	CLASS B PATCHES, TYPE II, 11 INCH	SO YD	8	8				
44201299	DOWEL BARS 1 1/2"	EACH	24	24				
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SO YD	36	36				
44213200	SAW CUTS	FOOT	54	54				
550A0330	STORM SEWERS, CLASS A, TYPE 2 10"	FOOT	6	6				
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	126	126				
55100300	STORM SEWER REMOVAL 8"	FOOT	126	126				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE		
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	9	9				
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	638	638				
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1				
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	3	3				
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	2	2				
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2				
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2				
60255500	MANHOLES TO BE ADJUSTED	EACH	4	4				
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	8	8				
60500050	REMOVING CATCH BASINS	EACH	2	2				
60500060	REMOVING INLETS	EACH	2	2				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	843	843				

\* SPECIALTY ITEM  
 △ NON-PARTICIPATING ITEM

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 24	FOOT	304	304				
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SO FT	2100	2100				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	565	565				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3				
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1				
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2				
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	112	112				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9130	9130				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	6608	6608				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	146	146				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4590	4590				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2500	2500				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1550	1550				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	195	195				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2282	2282				
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SO FT	146	146				
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	5016	5016				
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	1448	1448				
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	30	30				
* 72000100	SIGN PANEL - TYPE 1	SO FT	71	23	48			
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2				
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	2	2				
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	62	62				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	400	400				

\* SPECIALTY ITEM  
△ NON-PARTICIPATING ITEM

FILE NAME =	USER NAME = ledzmorm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES GOLF ROAD AT HARMS ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\p\plonroom.dot\illinois.gov\PIDOT\Documents\DOT Offices\District 10\Projects\P170809\DRAWING\Design\P170809-shr-500.dgn		CHECKED -	REVISED -			1312	584N(14)	COOK	73	6
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			CONTRACT NO. 60Y74				
PLOT DATE = 10/18/2019						SCALE:	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE	CENTERLINE RUMBLE STRIP 0021 90% FED 10% STATE	CODE NO	ITEM	UNIT	ROADWAY 0004 80% FED 20% STATE		TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3640	3640				* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	420		420				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2240	2240				* 81400100	HANDHOLE	EACH	6		6				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1550	1550				* 81400200	HEAVY-DUTY HANDHOLE	EACH	4		4				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	195	195				* 81400300	DOUBLE HANDHOLE	EACH	2		2				
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	50 FT	73	73				* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2				
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	956	956				* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1				
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	266	266				* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1592		1592				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	84	84				* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1957		1957				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	76	76				* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1286		1286				
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1			1		* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3334		3334				
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1420			1420		* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2563		2563				
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	156			156		* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	77		77			* SPECIALTY ITEM △ NON-PARTICIPATING ITEM	

FILE NAME = USER NAME = ledzmm  
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 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 10/18/2019

DESIGNED -  
 REVISIONS -  
 CHECKED -  
 DATE -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 GOLF ROAD AT HARMS ROAD  
 SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 1312 584N(14) COOK 73 7  
 CONTRACT NO. 60Y74  
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE						ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE			
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	625	625						* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8	8			
* 87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1						* 88500100	INDUCTIVE LOOP DETECTOR	EACH	8	8			
* 87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1	1						* 88600100	DETECTOR LOOP, TYPE I	FOOT	923	923			
* 87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1	1						* 88700200	LIGHT DETECTOR	EACH	2		2		
* 87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1	1						* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1		
* 87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1	1						* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1			
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	16						* 89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	16	16			
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4						* 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8	8			
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52	52						* 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	16	16			
* 87900200	DRILL EXISTING HANDHOLE	EACH	2	2						* 89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	4	4			
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1						* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5651	5651			
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3	3						* 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	435	435			
										* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1			
																	* SPECIALTY ITEM
																	△ NON-PARTICIPATING ITEM

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE	STORM SEWER CLEANING 0004 100% STATE	CODE NO	ITEM	UNIT	ROADWAY 0004 80% FED 20% STATE		TRAFFIC SIGNALS 0021 80% FED 15% STATE 5% VILLAGE	EVP 0021 100% VILLAGE	STORM SEWER CLEANING 0004 100% STATE		
* 89502380	REMOVE EXISTING HANDHOLE	EACH	22	22				X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	13196	13196					
* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1				* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1				
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	10	10				* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5651		5651				
* X0323160	VIDEO INSPECTION OF STORM SEWER	FOOT	1745	1745				Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	80	80					
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	319		319			Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SO FT	1352	1352				△ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10			10			
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	38	38				Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	103	103					
* X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1	1				* Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1				
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1				Z0056604	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	136	136					
△ X5537600	STORM SEWERS TO BE CLEANED 8"	FOOT	264			264		* Z0064800	SELECTIVE CLEARING	UNIT	2	2					
△ X5537700	STORM SEWERS TO BE CLEANED 10"	FOOT	175			175		∅ Z0076600	TRAINEES	HOUR	500	500					
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	8	8				∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				∅ 0042									

\* SPECIALTY ITEM  
△ NON-PARTICIPATING ITEM

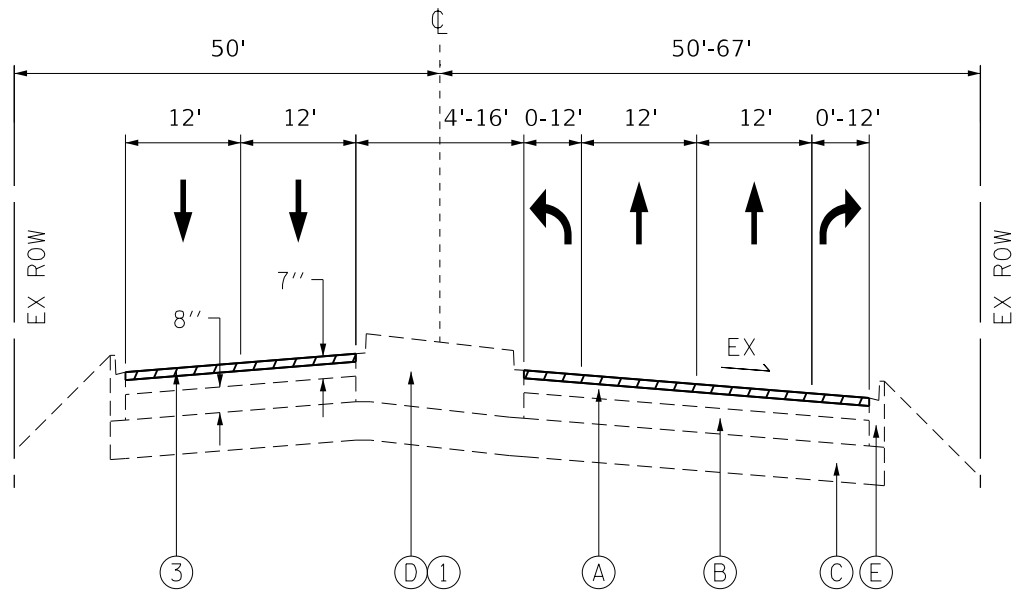
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
<b>GOLF ROAD &amp; HARMS ROAD RESURFACING AND WIDENING</b>		
POLYMERIZED HMA SURFACE COURSE, SMA, 9.5, N80, 1¾"	3.5% @ 80 GYR.	QC/QA
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, ¾"	3.5% @ 50 GYR.	QC/QA
HOT-MIX ASPHALT BASE COURSE WIDENING, (HMA BINDER IL-19.0) 8" (FOR WIDENING WIDTH < 6')	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19.0) 8" (FOR WIDENING WIDTH > 6')	4% @ 70 GYR.	QC/QA
<b>DRIVEWAYS</b>		
HMA SURFACE COURSE, MIX "D", N50, 2" (IL-9.5mm)	4% @ 50GYR.	QC/QA
HMA BASE COURSE, 8" (HMA BINDER IL-19.0mm)	4% @ 50GYR.	QC/QA
<b>PATCHING</b>		
CLASS D PATCHES (HMA BINDER IL-19 mm), 13"	4% @ 70 GYR.	QC/QA
<b>HMA CENTERLINE RUMBLE STRIP LONG PATCH</b>		
HMA SURFACE COURSE, MIX "D", N70, 2" (IL-9.5mm)	4% @ 70 GYR.	QC/QA
<b>QMP DESIGNATION:</b> QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR		

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL SURFACE HOT-MIX ASPHALT MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE SBS/SBR "PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- NOTE 3: FOR USE OF RECYCLED MATERIALS, SEE DISTRICT ONE SPECIAL PROVISION.
- NOTE 4: QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
- NOTE 5: THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

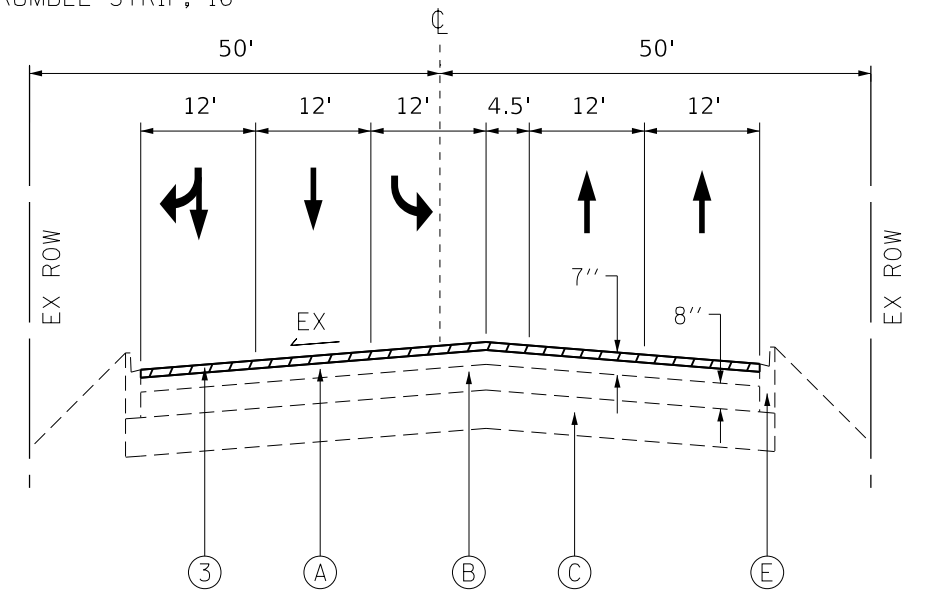


**LEGEND**

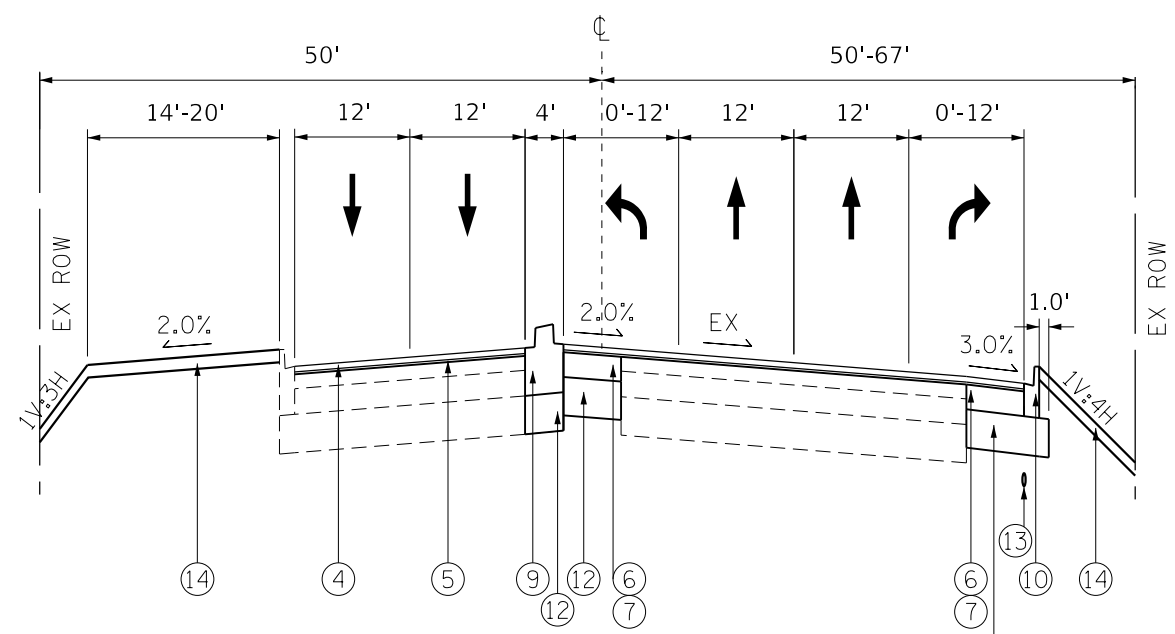
- (A) EXISTING HMA SURFACE COURSE
- (B) EXISTING P.C.C PAVEMENT
- (C) EXISTING SUB-BASE GRANULAR MATERIAL
- (D) EXISTING MEDIAN
- (E) EXISTING CURB AND GUTTER
- (1) PROPOSED MEDIAN REMOVAL
- (2) PROPOSED HMA SURFACE REMOVAL, 2"
- (3) PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- (4) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, N80 1 3/4"
- (5) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (6) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (7) PROPOSED HOT-MIX ASPHALT BASE COURSE, 8"
- (8) PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)
- (9) PROPOSED CONCRETE MEDIAN, TYPE SB-6.12
- (10) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (11) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (12) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (13) PROPOSED PIPE UNDERDRAINS, TYPE 2, 4"
- (14) PROPOSED TOPSOIL EXCAVATION AND PLACEMENT, 4"
- (15) PROPOSED HMA SURF. CSE. "D", N70, 2"
- (16) PROPOSED CENTERLINE-RUMBLE STRIP, 16"



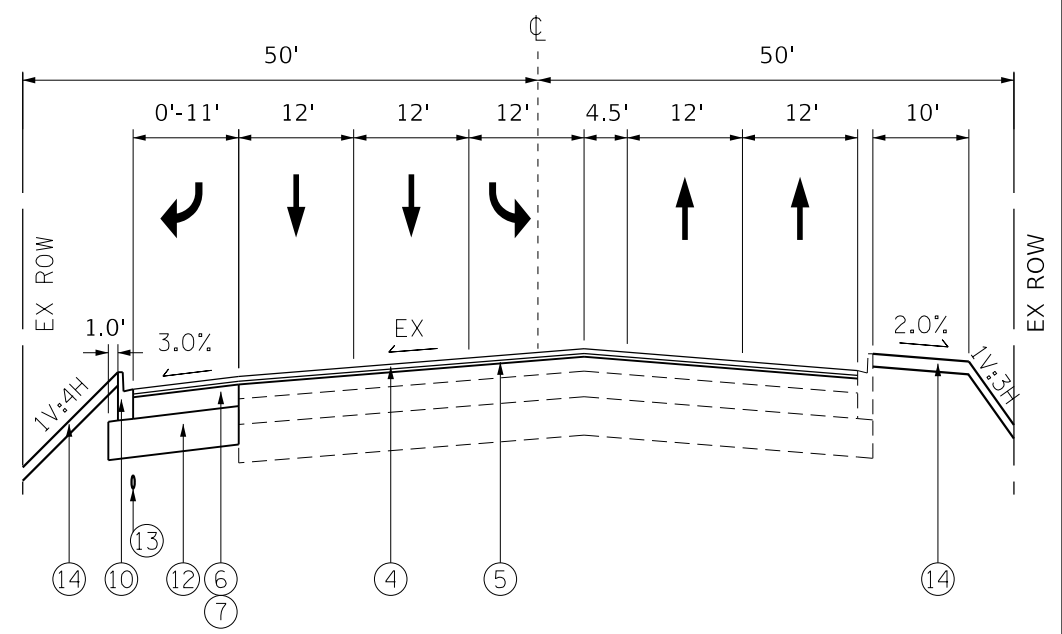
EXISTING TYPICAL SECTION  
GOLF ROAD  
STA. 370+00 TO 377+00



EXISTING TYPICAL SECTION  
GOLF ROAD  
STA. 377+00 TO 380+98.57



PROPOSED TYPICAL SECTION  
GOLF ROAD  
STA. 370+00 TO 377+00



PROPOSED TYPICAL SECTION  
GOLF ROAD  
STA. 377+00 TO 380+98.57

FILE NAME =	USER NAME = ledezmar	DESIGNED -	REVISED -
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\Design\P170809-sht-typical.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

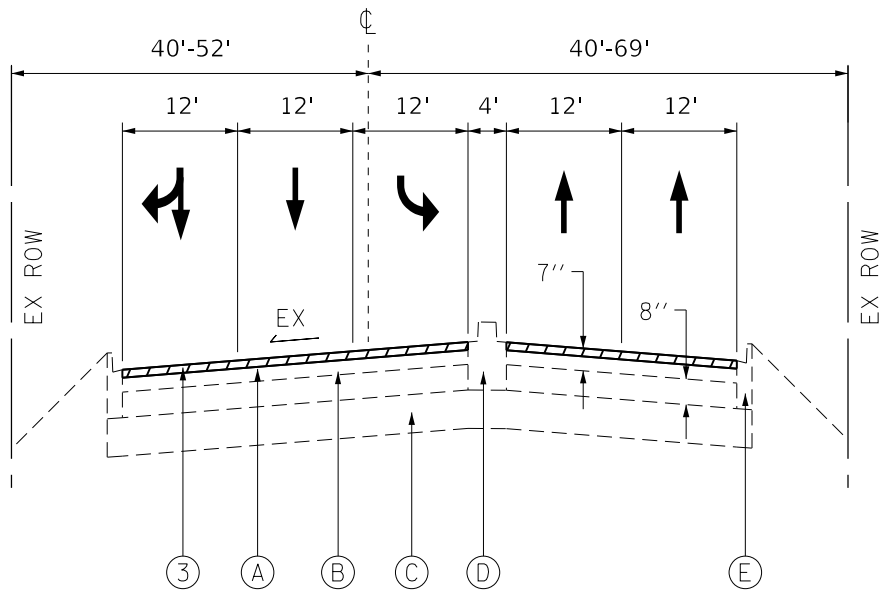
**TYPICAL SECTIONS  
GOLF ROAD AT HARMS ROAD**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

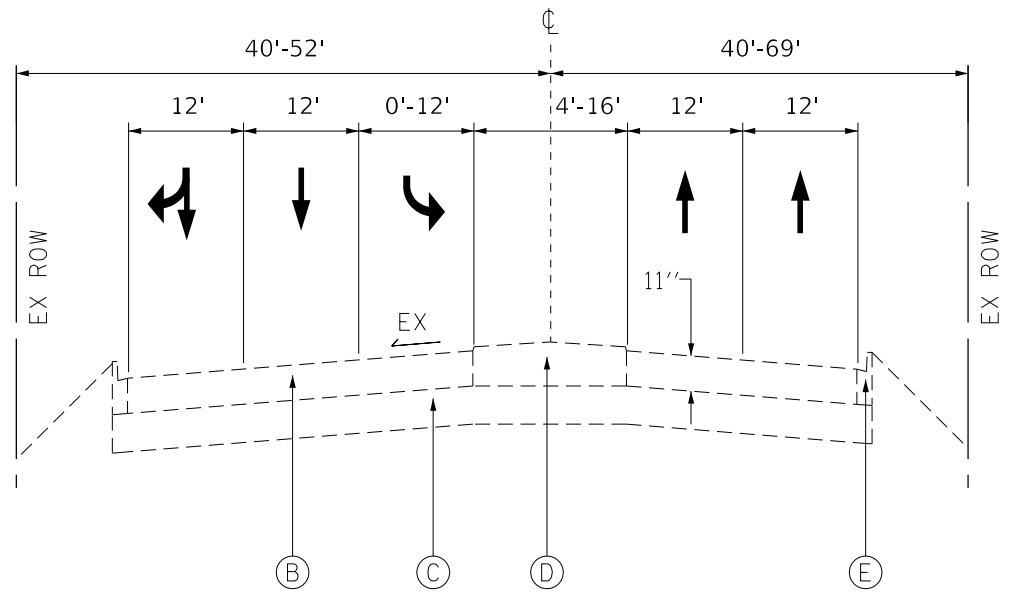
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	11
CONTRACT NO. 60Y74			ILLINOIS FED. AID PROJECT	

**LEGEND**

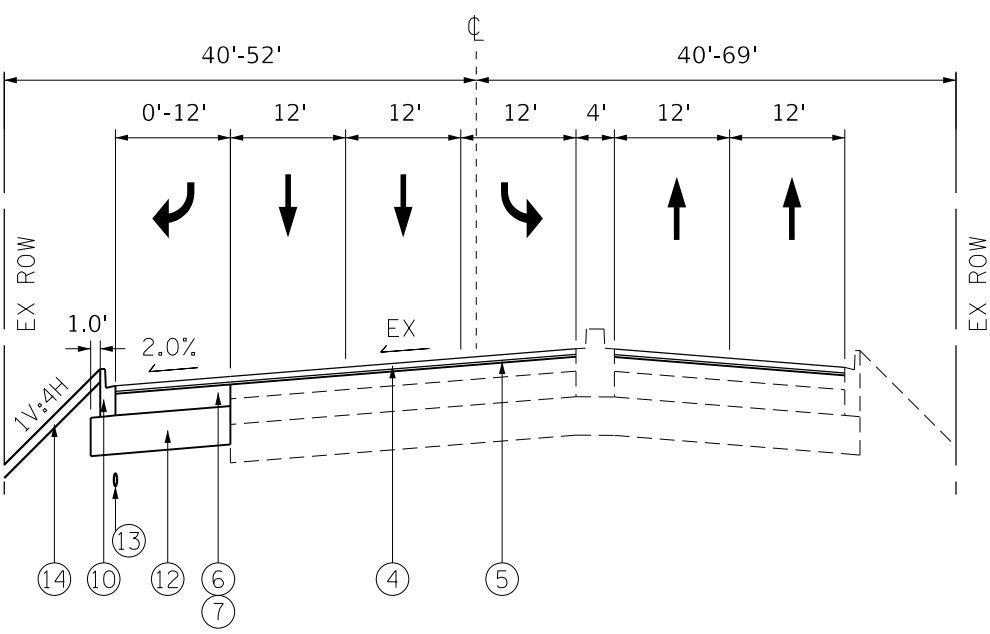
- (A) EXISTING HMA SURFACE COURSE
- (B) EXISTING P.C.C PAVEMENT
- (C) EXISTING SUB-BASE GRANULAR MATERIAL
- (D) EXISTING MEDIAN
- (E) EXISTING CURB AND GUTTER
- (1) PROPOSED MEDIAN REMOVAL
- (2) PROPOSED HMA SURFACE REMOVAL, 2"
- (3) PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- (4) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, N80 1 3/4"
- (5) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (6) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (7) PROPOSED HOT-MIX ASPHALT BASE COURSE, 8"
- (8) PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)
- (9) PROPOSED CONCRETE MEDIAN, TYPE SB-6.12
- (10) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (11) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (12) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (13) PROPOSED PIPE UNDERDRAINS, TYPE 2, 4"
- (14) PROPOSED TOPSOIL EXCAVATION AND PLACEMENT, 4"
- (15) PROPOSED HMA SURF. CSE. "D", N70, 2"
- (16) PROPOSED CENTERLINE-RUMBLE STRIP, 16"



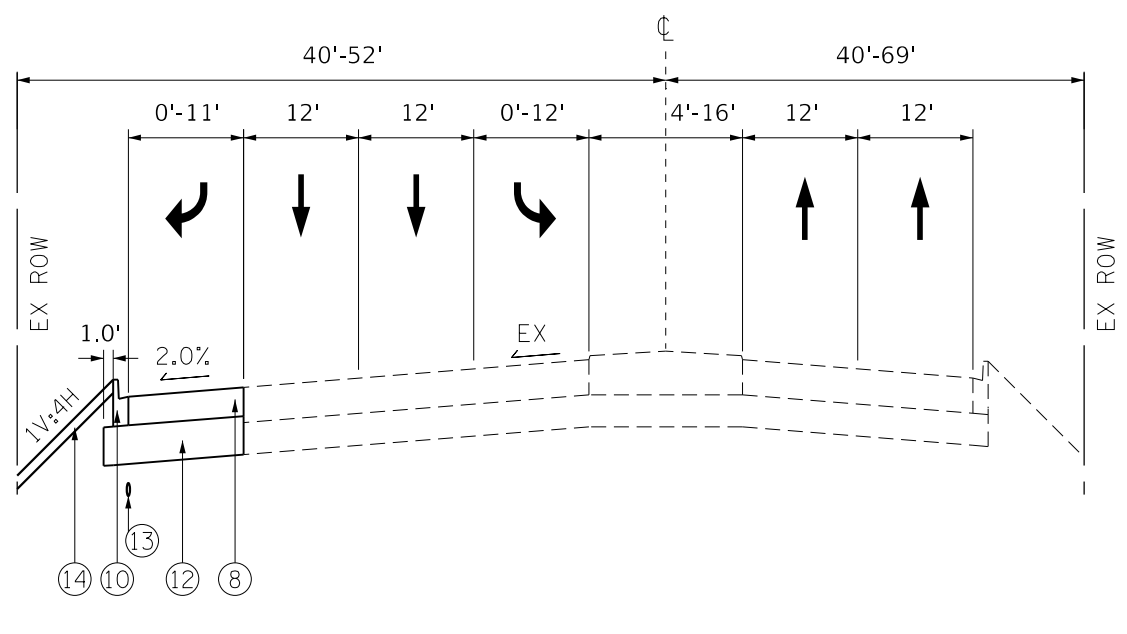
EXISTING TYPICAL SECTION  
HARMS ROAD  
STA. 58+00 TO 59+35.57



EXISTING TYPICAL SECTION  
HARMS ROAD  
STA. 59+35.57 TO 61+71.30



PROPOSED TYPICAL SECTION  
HARMS ROAD  
STA. 58+00 TO 59+35.57



PROPOSED TYPICAL SECTION  
HARMS ROAD  
STA. 59+35.57 TO 61+71.30

FILE NAME =	USER NAME = ldezmaim	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS GOLF ROAD AT HARMS ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\Design\P170809-shr-typical.dgn		DRAWN -	REVISED -		1312	584N(14)	COOK	73	12			
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -		CONTRACT NO. 60Y74							
	PLOT DATE = 10/18/2019	DATE -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT

### **BENCHMARK #A**

ELEV. = 624.81

VILLAGE OF SKOKIE FINAL  
DISK IN CONCRETE WITH  
MEATAL ACCESS COVER  
FOR STATION ONLY 3088  
ORIGIN OF DATUM B.M.A  
STA. 387+68.82 84.11 LT

### **BENCHMARK #B**

ELEV. = 625.70

SQUARE CUT @ NWX CONCRETE  
FOUNDATION FOR TRAFFIC  
CONTROL LITE BOX  
STA. 377+62 55.32 LT

### **BENCHMARK #C**

ELEV. = 627.86

CHISELED "X" ON FLANGE BOLT  
STA. 55+82.45 52.70 RT

### **BENCHMARK #D**

ELEV. = 627.92

CHISELED "X" ON FLANGE BOLT  
STA. 53+16.77 41.65 RT

### **BENCHMARK #E**

ELEV. = 627.09

CHISELED "X" ON FLANGE BOLT  
STA. 44+42.30 41.00 RT

### **CONTROL POINT 1**

CROSS NOTCH SET  
NO TIES PROVIDED  
STA. 376+70.40, 39.75 R  
N=1963246.9770  
E=1138194.8850  
ELEV.=625.62

### **CONTROL POINT 2**

CROSS NOTCH SET  
NO TIES PROVIDED  
STA. 53+99.56, 0.05 R  
N=1962888.9550  
E=1138256.7500  
ELEV.=625.95

### **CONTROL POINT 3**

CROSS NOTCH SET  
NO TIES PROVIDED  
STA. 374+02.85, 1.33 L  
N=1963282.2500  
E=1137926.5000  
ELEV.=625.83

### **CONTROL POINT 4**

CROSS NOTCH SET  
NO TIES PROVIDED  
STA. 60+84.84, 4.11 R  
N=1963564.1360  
E=1138155.9740  
ELEV.=626.08

### **CONTROL POINT 6**

NO TIES PROVIDED  
NO DESCRIPTION PROVIDED  
STA. 63+75.43, 36.43 L  
N=1963821.3150  
E=1138014.9850  
ELEV.=624.89

### **CONTROL POINT 7**

NO TIES PROVIDED  
NO DESCRIPTION PROVIDED  
STA. 63+75.57, 35.76 R  
N=1963847.5200  
E=1138082.2450  
ELEV.=624.96

### **CONTROL POINT 8**

NO TIES PROVIDED  
NO DESCRIPTION PROVIDED  
STA. 66+53.43, 30.69 L  
N=1964082.6250  
E=1137919.9200  
ELEV.=624.57

### **CONTROL POINT 9**

NO TIES PROVIDED  
NO DESCRIPTION PROVIDED  
STA. 69+87.01, 23.96 L  
N=1964395.3450  
E=1137804.1500  
ELEV.=625.35

### **CONTROL POINT 13**

NO TIES PROVIDED  
NO DESCRIPTION PROVIDED  
STA. 371+02.38, 35.98 L  
N=1963310.3562  
E=1137625.3537  
ELEV.=623.66

### **CONTROL POINT 19**

NO TIES PROVIDED  
NO DESCRIPTION PROVIDED  
STA. 72+69.92, 20.67 R  
N=1964675.3150  
E=1137743.2350  
ELEV.=624.44

### **CONTROL POINT 21**

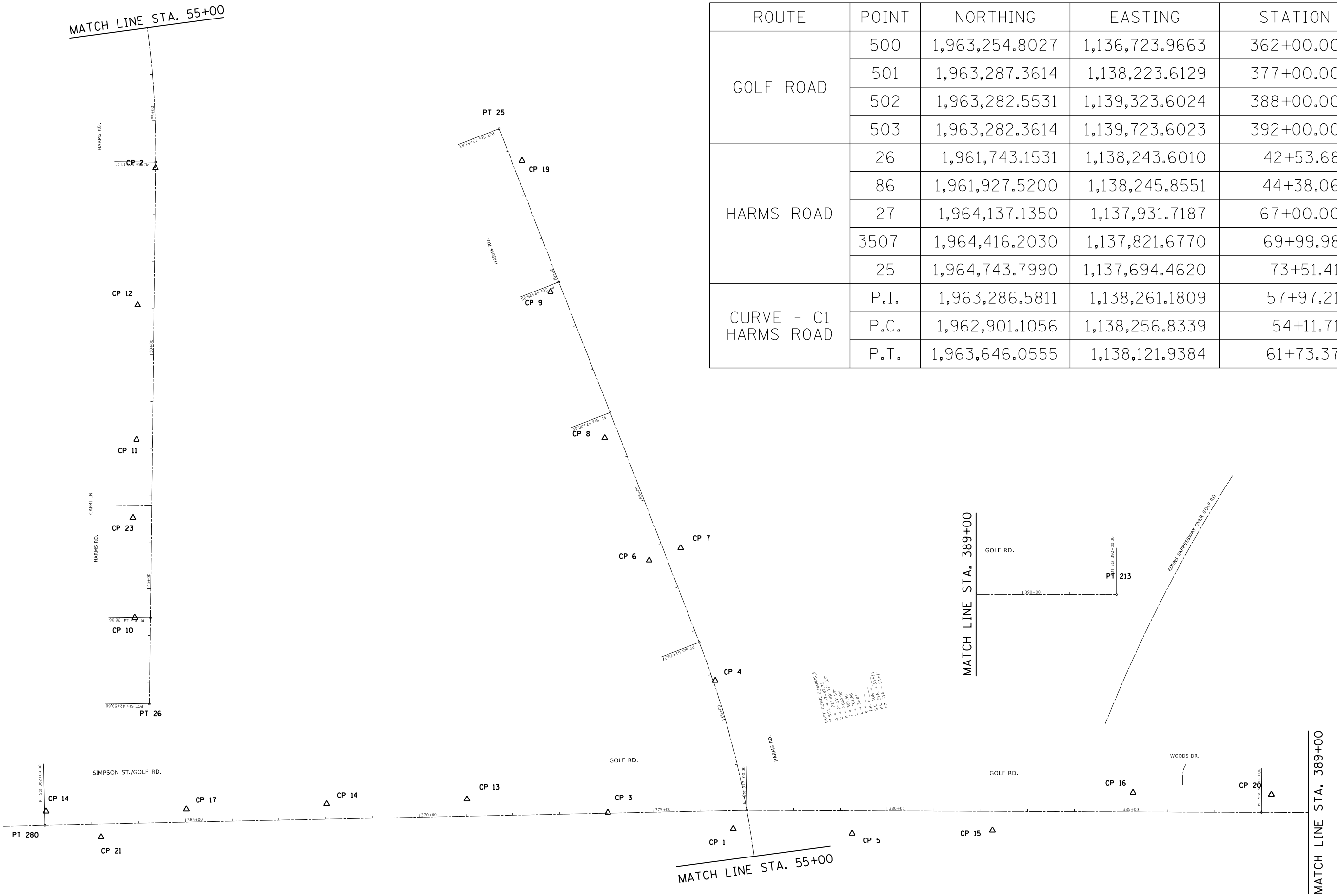
NO TIES PROVIDED  
NO DESCRIPTION PROVIDED  
STA. 363+19.45, 27.47 R  
N=1963229.9300  
E=1136843.9800  
ELEV.=624.23

### **CONTROL POINT 22**

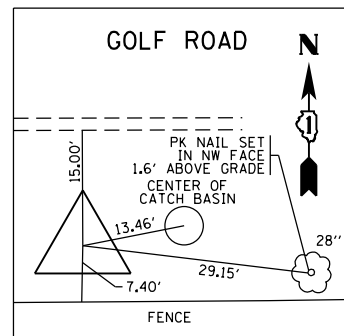
NO TIES PROVIDED  
NO DESCRIPTION PROVIDED  
STA. 48+18.53, 34.00 L  
N=1962308.3450  
E=1138216.1500  
ELEV.=624.56

FILE NAME =	USER NAME = ldezmar	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENTS, TIES AND BENCHMARKS GOLF ROAD AT HARMS ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\CADsheets\P170809-shr-ATB.dgn		CHECKED -	REVISED -					1312	584N(14)	COOK	73	13
Default	PLOT SCALE = 200.0000' / in.	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 60Y74				
	PLOT DATE = 10/18/2019				ILLINOIS FED. AID PROJECT							

ROUTE	POINT	NORTHING	EASTING	STATION
GOLF ROAD	500	1,963,254.8027	1,136,723.9663	362+00.00
	501	1,963,287.3614	1,138,223.6129	377+00.00
	502	1,963,282.5531	1,139,323.6024	388+00.00
	503	1,963,282.3614	1,139,723.6023	392+00.00
HARMS ROAD	26	1,961,743.1531	1,138,243.6010	42+53.68
	86	1,961,927.5200	1,138,245.8551	44+38.06
	27	1,964,137.1350	1,137,931.7187	67+00.00
	3507	1,964,416.2030	1,137,821.6770	69+99.98
	25	1,964,743.7990	1,137,694.4620	73+51.41
CURVE - C1 HARMS ROAD	P.I.	1,963,286.5811	1,138,261.1809	57+97.21
	P.C.	1,962,901.1056	1,138,256.8339	54+11.71
	P.T.	1,963,646.0555	1,138,121.9384	61+73.37

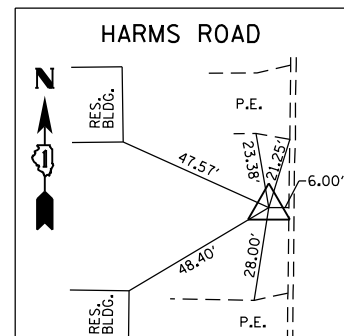


FILE NAME =	USER NAME = ldezmarm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENTS, TIES AND BENCHMARKS GOLF ROAD AT HARMS ROAD</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	1312	584N(14)	COOK	73	14
		DATE -	REVISED -						CONTRACT NO. 60Y74							
									ILLINOIS FED. AID PROJECT							



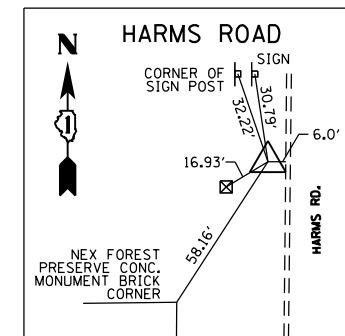
### CONTROL POINT 23

NO TIES PROVIDED  
 NO DESCRIPTION PROVIDED  
 STA. 46+50.98, 39.90 L  
 N=1962140.8800  
 E=1138208.3600  
 ELEV.=625.26



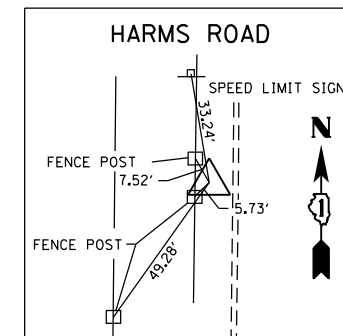
### CONTROL POINT 10

NO DESCRIPTION PROVIDED  
 STA. 44+38.29, 33.81 L  
 N=1961928.1270  
 E=1138212.0470  
 ELEV.=624.66



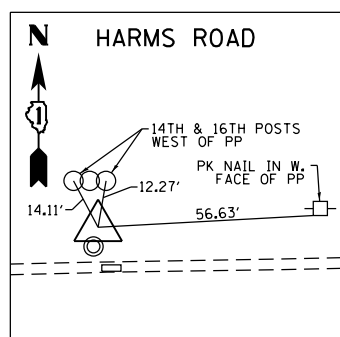
### CONTROL POINT 11

NO DESCRIPTION PROVIDED  
 STA. 48+18.51, 33.99 L  
 N=1962308.3300  
 E=1138216.1500  
 ELEV.=624.57



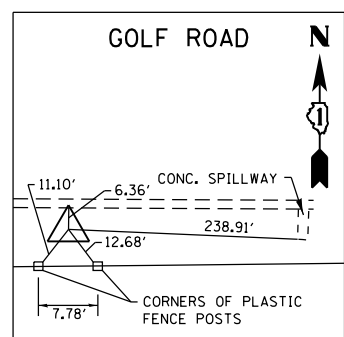
### CONTROL POINT 12

NO DESCRIPTION PROVIDED  
 STA. 51+06.16, 34.71 L  
 N=1962595.9700  
 E=1138218.6750  
 ELEV.=625.01



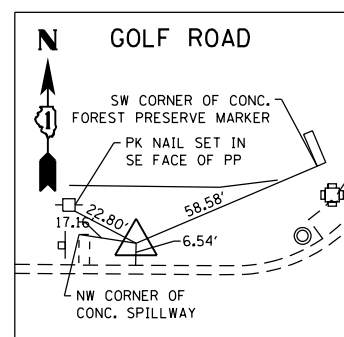
### CONTROL POINT 14

NO DESCRIPTION PROVIDED  
 STA. 368+02.51, 32.57 L  
 N=1963300.4383  
 E=1137325.6277  
 ELEV.=622.84



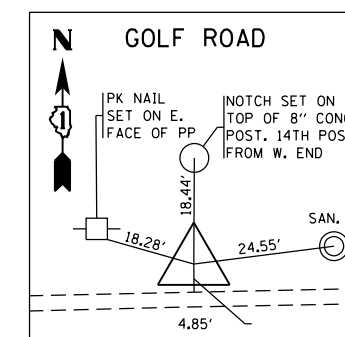
### CONTROL POINT 15

SET REBAR  
 STA. 382+25.24, 40.87 R  
 N=1963244.1950  
 E=1138748.6650  
 ELEV.=625.23



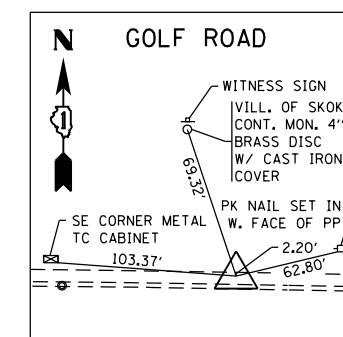
### CONTROL POINT 16

SET REBAR  
 STA. 385+25.24, 41.29 L  
 N=1963325.0408  
 E=1139049.0211  
 ELEV.=625.97



### CONTROL POINT 17

NO DESCRIPTION PROVIDED  
 STA. 365+02.75, 27.91 L  
 N=1963289.2800  
 E=1137026.0350  
 ELEV.=624.25



### CONTROL POINT 20

CROSS NOTCH SET ON  
 CONCRETE SIDEWALK  
 STA. 388+20.95, 38.17 L  
 N=1963320.7108  
 E=1139344.5694  
 ELEV.=623.17

FILE NAME =	USER NAME = ldezmarm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENTS, TIES AND BENCHMARKS GOLF ROAD AT HARMS ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\CADsheets\P170809-sht-ATB.dgn	PLotted	CHECKED -	REVISED -			1312	584N(14)	COOK	73	15	
Default	PLLOT SCALE = 200.0000' / in.	DATE -	REVISED -			CONTRACT NO. 60Y74					
	PLLOT DATE = 10/18/2019					ILLINOIS FED. AID PROJECT					





LOCATION		EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	FILL	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	TOPSOIL EXCAVATION STRIP DEPTH = VAR 12"	TOPSOIL EXCAVATION ADJUSTED FOR a(5)	TOPSOIL FILL DEPTH = VAR 4"	TOPSOIL BALANCE WASTE (+) SHORTAGE (-)
GOLF RD									
FROM STATION	TO STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
370+00	371+00	0	0	102	-102	65	65	22	43
371+00	372+00	14	12	79	-68	63	63	21	42
372+00	373+00	51	43	81	-38	90	90	28	62
373+00	374+00	83	70	87	-17	103	103	29	74
374+00	375+00	65	55	73	-18	85	85	25	60
375+00	376+00	33	28	83	-55	96	96	33	63
376+00	377+00	14	12	44	-32	54	54	19	35
377+00	378+00	35	0	17	-17	59	0	12	-12
378+00	379+00	57	0	50	-50	114	28	24	3
379+00	380+00	35	0	66	-66	108	56	23	33
380+00	381+00	13	0	57	-57	77	53	20	33
381+00	382+00	0	0	24	-24	25	25	8	16
SUB-TOTAL		399	220	764	-544	937	716	263	453

EARTH EXCAVATION SUMMARY		
	EARTHWORK BALANCE (CY) WASTE (+) SHORTAGE (-)	TOPSOIL BALANCE (CY) WASTE (+) SHORTAGE (-)
Golf	-544	453
Harms	61	135
TOTAL	-483	588

LOCATION		EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	FILL	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	TOPSOIL EXCAVATION STRIP DEPTH = VAR 12"	TOPSOIL EXCAVATION ADJUSTED FOR a(5)	TOPSOIL FILL DEPTH = VAR 4"	TOPSOIL BALANCE WASTE (+) SHORTAGE (-)
HARMS RD									
FROM STATION	TO STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
53+00	54+00	0	0	0	0	0	0	0	0
54+00	55+00	0	0	0	0	0	0	0	0
55+00	56+00	0	0	0	0	0	0	0	0
56+00	57+00	0	0	0	0	0	0	0	0
57+00	58+00	0	0	0	0	0	0	0	0
58+00	59+00	30	26	6	20	24	24	2	21
59+00	60+00	52	44	22	22	58	58	7	51
60+00	61+00	43	36	23	14	53	53	7	47
61+00	61+66	17	15	8	7	17	17	3	14
61+66	62+00	2	1	2	0	2	2	1	2
62+00	63+00	0	0	0	0	0	0	0	0
SUB-TOTAL		144	123	61	61	154	154	19	135

**EARTHWORK NOTES:**

1. STATION RANGE
2. VOLUME TO BE CUT
3. VOLUME TO BE USED AS FILL AFTER EITHER ADJUSTING 15% FOR SHRINKAGE AND LOSSES, OR OMISSION DUE TO HAVING AN A(5) CONTAMINATED SITE PER THE PSI REPORT
4. VOLUME TO BE FILLED
5. COLUMN (4) MINUS COLUMN (3)
6. TOPSOIL STRIPPING VOLUME
7. TOPSOIL FILL VOLUME
8. COLUMN (7) MINUS COLUMN (6)

MODEL: Default  
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/31/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EARTHWORK BALANCE          GOLF ROAD AT HARMS ROAD</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1312	584N(14)	COOK	73	18
SCALE: NTS		SHEET OF SHEETS		STA. TO STA.		CONTRACT NO. 60Y74

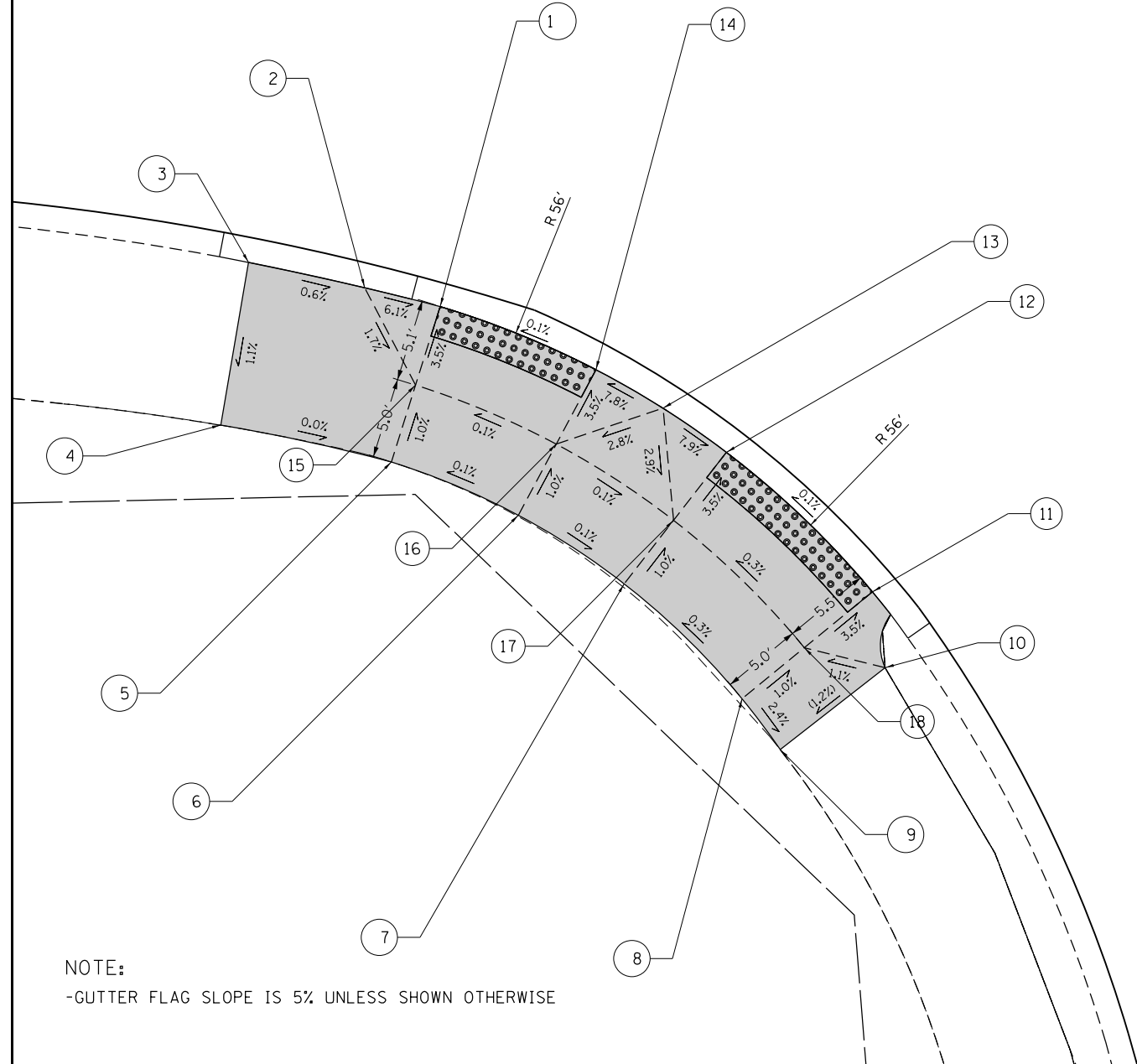
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	18
ILLINOIS FED. AID PROJECT				





**GOLF RD**

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
1	376+40.06	55.39 RT	625.06	10	376+67.21	78.42 RT	(625.33)
2	376+35.39	54.11 RT	625.35	11	376+66.53	73.70 RT	625.08
3	376+28.21	52.39 RT	(625.40)	12	376+57.64	64.83 RT	625.06
4	376+26.27	62.45 RT	(625.29)	13	376+53.76	62.00 RT	625.44
5	376+36.82	64.97 RT	625.29	14	376+49.65	59.52 RT	625.07
6	376+44.63	68.45 RT	625.30	15	376+38.42	60.24 RT	625.24
7	376+51.11	72.86 RT	625.29	16	376+47.08	64.09 RT	625.25
8	376+58.29	80.16 RT	625.32	17	376+54.27	68.98 RT	625.24
9	376+60.58	83.36 RT	(625.23)	18	376+62.22	77.08 RT	625.27

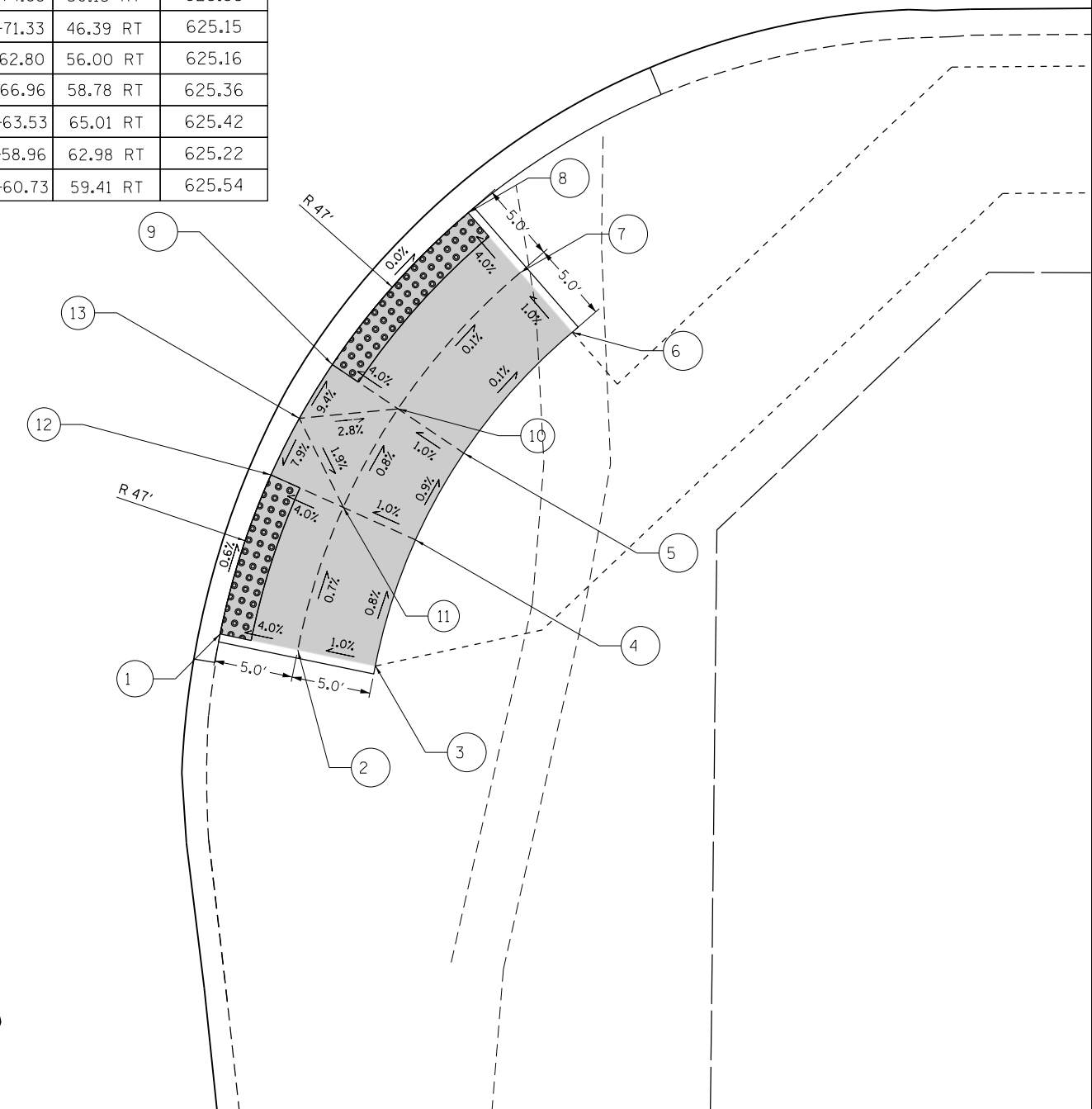


NOTE:  
-GUTTER FLAG SLOPE IS 5% UNLESS SHOWN OTHERWISE



**GOLF RD**

	STATION	OFFSET	ELEVATION
1	377+55.79	73.04 RT	625.28
2	377+60.69	74.03 RT	625.48
3	377+65.59	75.02 RT	625.53
4	377+68.10	67.04 RT	625.47
5	377+71.12	61.55 RT	625.41
6	377+77.93	53.91 RT	625.40
7	377+74.63	50.15 RT	625.35
8	377+71.33	46.39 RT	625.15
9	377+62.80	56.00 RT	625.16
10	377+66.96	58.78 RT	625.36
11	377+63.53	65.01 RT	625.42
12	377+58.96	62.98 RT	625.22
13	377+60.73	59.41 RT	625.54



**LEGEND**

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

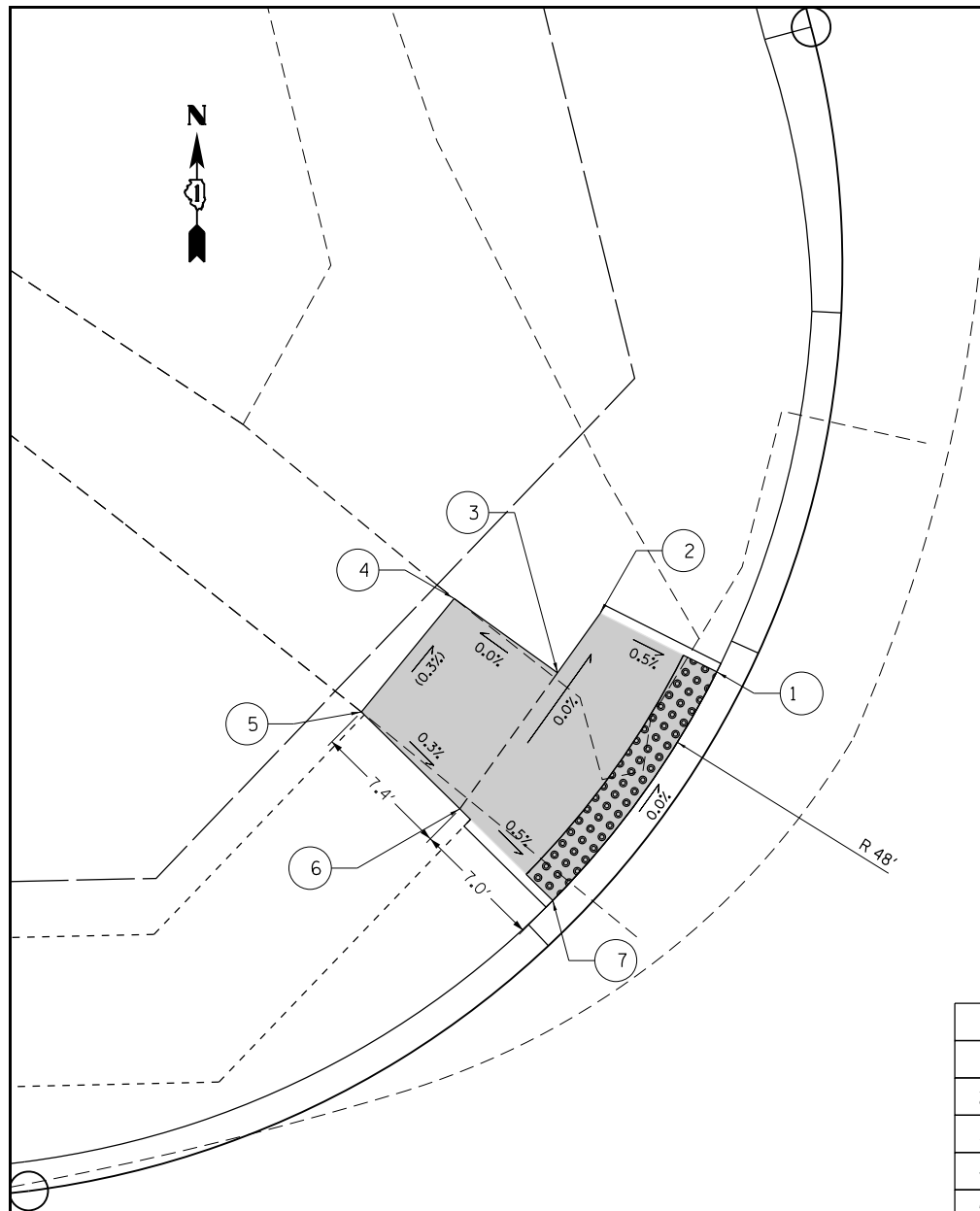
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	PLOT DATE = 10/18/2019	DATE -	REVISED -

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

**ADA RAMP DETAILS (GOLF RD AND HARMS RD)**  
**GOLF ROAD AT HARMS ROAD**

SCALE: 1"=5'      SHEET    OF    SHEETS    STA.            TO STA.

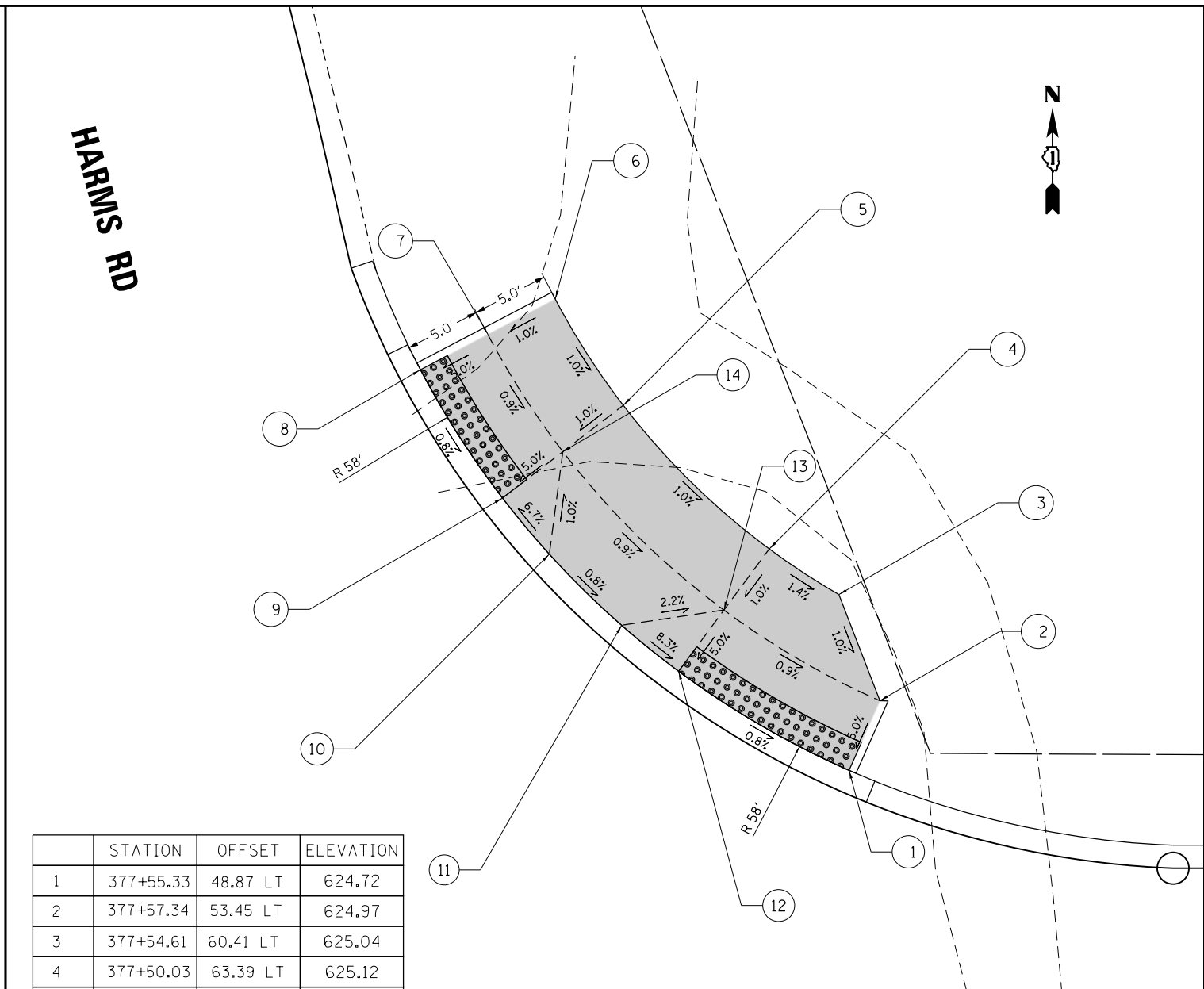
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1350	2106-058-RS	COOK	73	19
CONTRACT NO. 62C51			ILLINOIS FED. AID PROJECT	



	STATION	OFFSET	ELEVATION
1	376+37.88	60.42 LT	624.72
2	376+31.70	63.70 LT	624.75
3	376+29.34	60.56 LT	624.75
4	376+23.88	64.67 LT	(624.75)
5	376+18.78	58.69 LT	(624.77)
6	376+23.94	53.37 LT	624.75
7	376+28.82	48.35 LT	624.71

NOTE:  
-GUTTER FLAG SLOPE IS 5% UNLESS SHOWN OTHERWISE

**GOLF RD**



	STATION	OFFSET	ELEVATION
1	377+55.33	48.87 LT	624.72
2	377+57.34	53.45 LT	624.97
3	377+54.61	60.41 LT	625.04
4	377+50.03	63.39 LT	625.12
5	377+40.39	72.78 LT	625.25
6	377+35.90	79.74 LT	625.33
7	377+31.48	77.40 LT	625.28
8	377+27.06	75.06 LT	625.03
9	377+32.49	66.66 LT	624.95
10	377+35.58	62.98 LT	624.52
11	377+40.35	58.33 LT	624.47
12	377+44.11	55.33 LT	624.82
13	377+47.07	59.36 LT	625.22
14	377+36.44	69.72 LT	625.27

**GOLF RD**

**LEGEND**

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

FILE NAME =	USER NAME = ledezmar	DESIGNED -	REVISED -
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS (GOLF RD AND HARMS RD)  
GOLF ROAD AT HARMS ROAD**

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1350	2106-058-RS	COOK	73	20
CONTRACT NO. 62C51			ILLINOIS FED. AID PROJECT	

COMMON TO ALL STAGES

WORK CAN BE COMPLETED USING LANE CLOSURES DURING ALLOWABLE HOURS ONLY AS SPECIFIED IN THE SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC"

STAGE I

ESTABLISH TRAFFIC CONTROL AS SHOWN.

REMOVE MEDIANS NEAR INTERSECTION AND REPLACE WITH CLASS D PATCHES. DIMENSIONS OF MEDIANS TO BE REMOVED AND REPLACED WITH CLASS D PATCHES ARE SHOWN IN ROADWAY PLANS.

STAGE II

ESTABLISH TRAFFIC CONTROL AS SHOWN.

REMOVE NW AND SW ISLANDS AND REPLACE WITH CLASS D PATCHES.

STAGE III

ESTABLISH TRAFFIC CONTROL AS SHOWN.

REMOVE CONFLICTING PAVEMENT MARKING USING WATER BLASTING METHOD.

REMOVE CONFLICTING CURB AND GUTTER AND DRAINAGE STRUCTURES. CONSTRUCT WIDENING ON W AND E LEGS OF GOLF, AND ON N LEG OF HARMS ROAD INCLUDING ALL COLLATERAL WORK AS SHOWN ON PLANS.

BEGIN GRADING WORK RELATED TO BIKE PATH SHELVES.

INSTALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN.

STAGE IV

ESTABLISH TRAFFIC CONTROL AS SHOWN.

REMOVE MEDIAN ON WEST LEG OF GOLF. CONSTRUCT WIDENING AND ALL OTHER COLLATERAL WORK AS SHOWN ON PLANS.

BEGIN TRAFFIC SIGNAL WORK.

COMPLETE ALL GRADING AND LANDSCAPING WORK AS SHOWN ON PLANS.

STAGE V

MILL EXISTING HMA PAVEMENT AND INSTALL POLYMERIZED LEVELING BINDER AND SURFACE COURSE.

INSTALL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS AS SHOWN ON PLANS.

THIS WORK SHALL BE DONE USING APPROPRIATE TRAFFIC CONTROL AND PROTECTION.

NOTE:

ESTABLISHING TRAFFIC CONTROL AS SHOWN ON SUGGESTED STAGING CONSTRUCTION STAGING SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL).

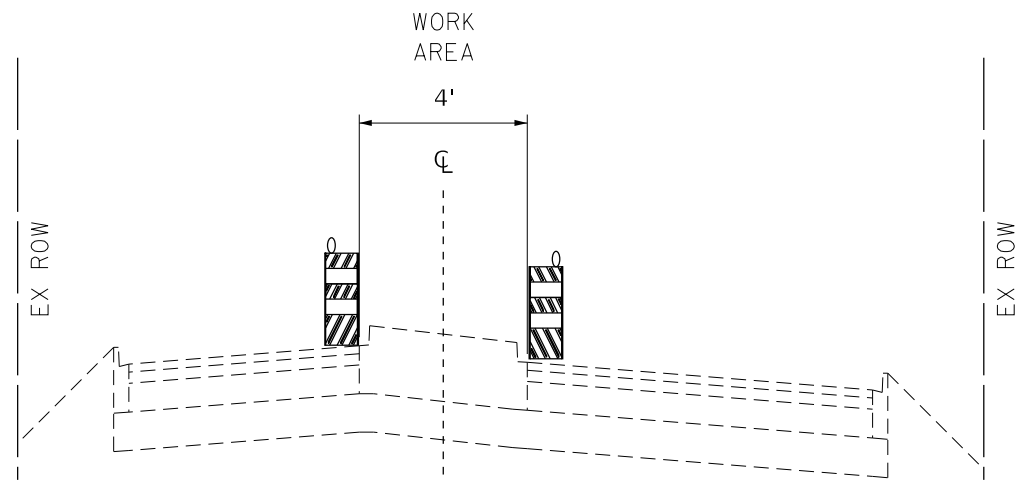
LANE CLOSURES SHALL BE PERMITTED ONLY AS SPECIFIED IN THE SPECIAL PROVISIONS "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC".

EXISTING SPEED LIMIT SIGNS ON GOLF ROAD WITHIN THE PROJECT LIMITS ARE TO BE COVERED.

FILE NAME =	USER NAME = ldezma	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED CONSTRUCTION STAGING NOTES GOLF ROAD AT HARMS ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\planroom\dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\Design\P170809-staging.dgn		CHECKED -	REVISED -					1312	584N(14)	COOK	73	21
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		CONTRACT NO. 60Y74			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 10/18/2019				SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.	

**LEGEND**

- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP



GOLF ROAD  
 STA. 376+33 TO 376+59  
 STA. 377+54 TO 377+80  
 HARMS ROAD  
 STA. 57+22 TO 57+47  
 STA. 58+43 TO 58+70

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





**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS, SUGGESTED CONSTRUCTION STAGING, STAGE I  
 GOLF ROAD AT HARMS ROAD**

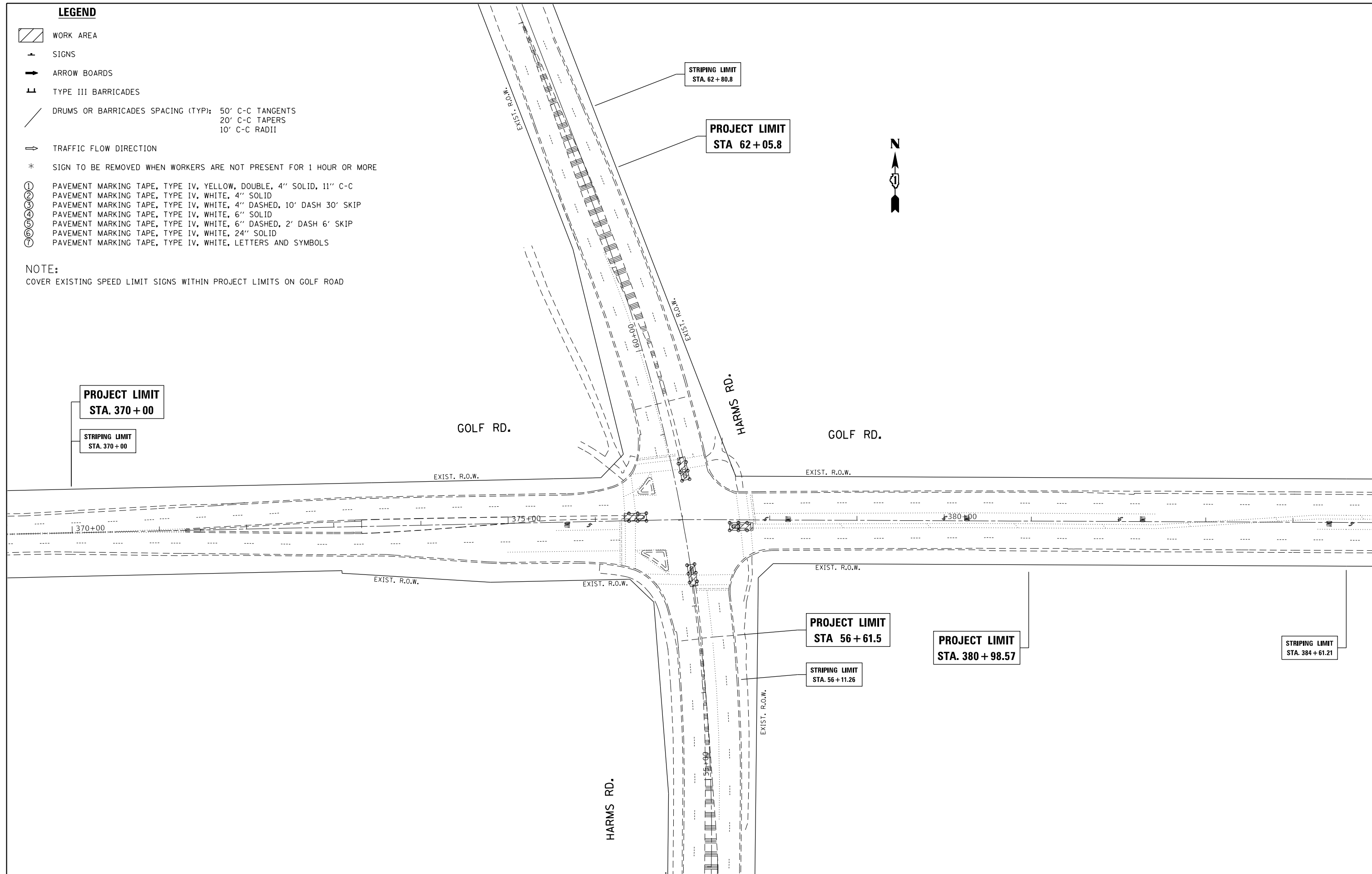
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y74	

**LEGEND**

-  WORK AREA
-  SIGNS
-  ARROW BOARDS
-  TYPE III BARRICADES
-  DRUMS OR BARRICADES SPACING (TYP):  
50' C-C TANGENTS  
20' C-C TAPERS  
10' C-C RADII
-  TRAFFIC FLOW DIRECTION
- \* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP
- ⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
- ⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS

NOTE:  
COVER EXISTING SPEED LIMIT SIGNS WITHIN PROJECT LIMITS ON GOLF ROAD



FILE NAME =	USER NAME = ledezmar	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

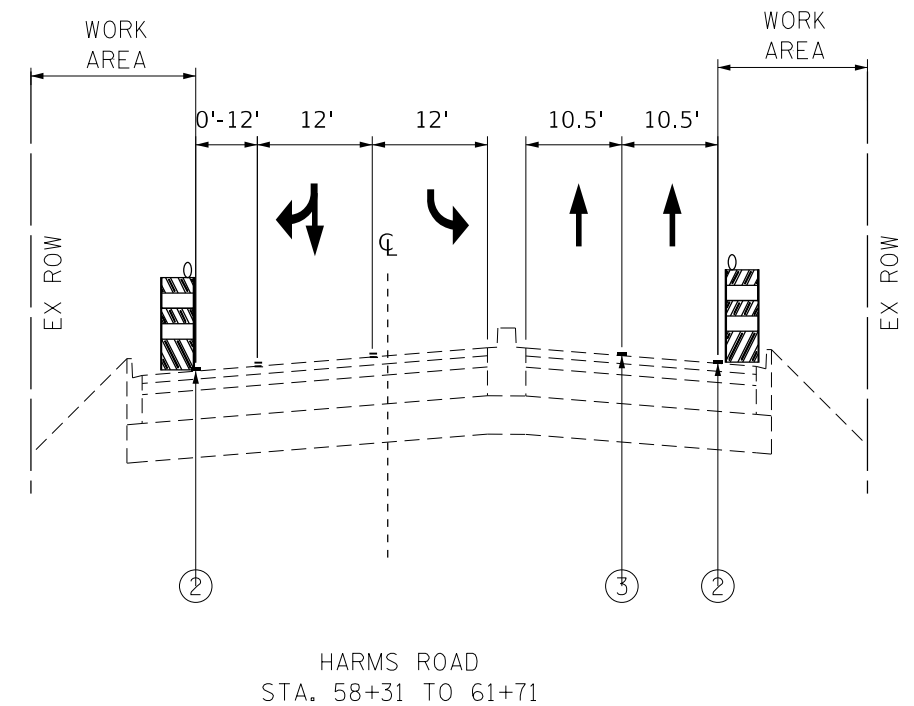
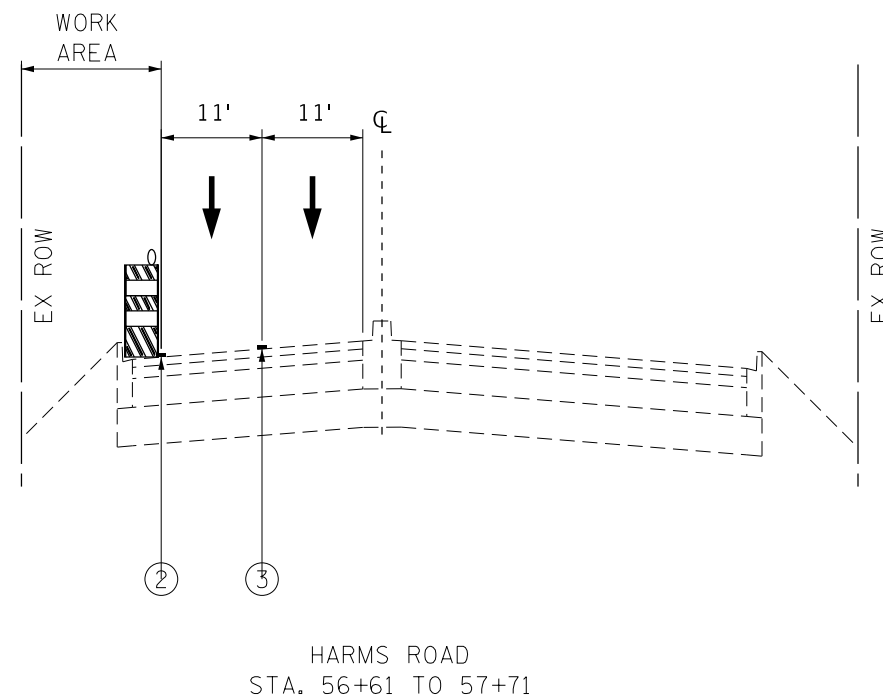
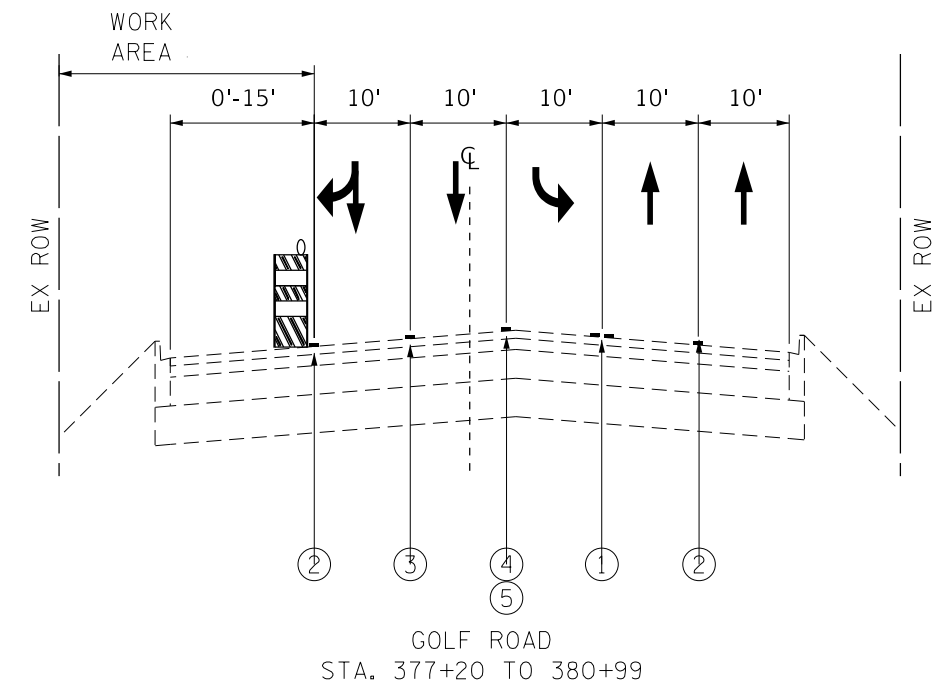
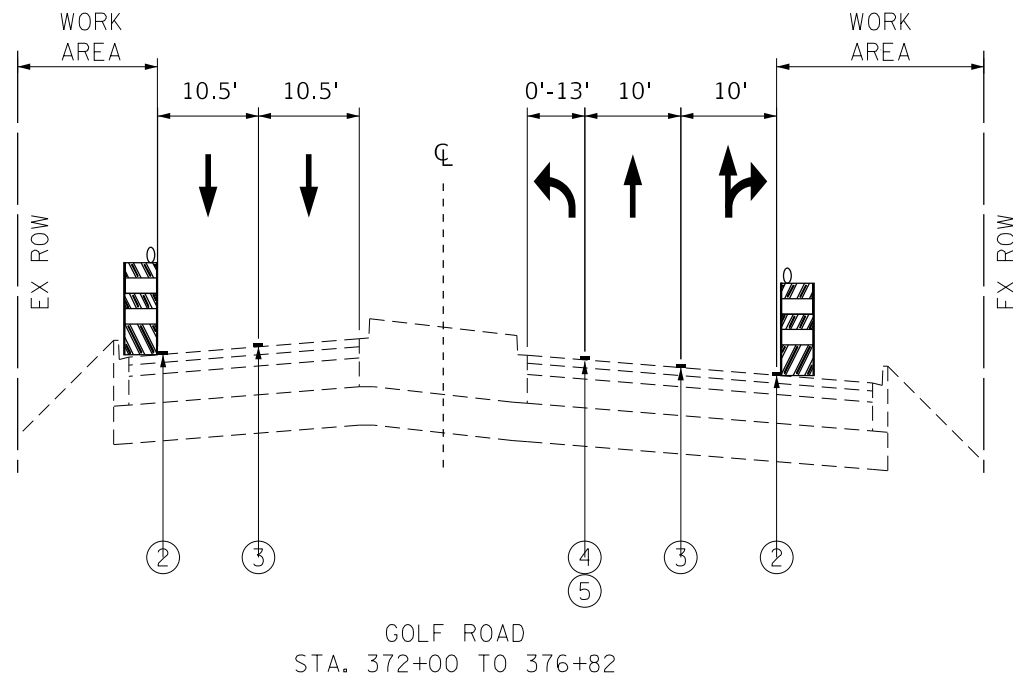
**SUGGESTED MAINTENANCE OF TRAFFIC, STAGE I  
GOLF ROAD AT HARMS ROAD**

SCALE: 1"=50'      SHEET    OF    SHEETS    STA.            TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	23
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP



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Default	PLOT DATE = 10/18/2019	DATE -	REVISED -







**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS, SUGGESTED CONSTRUCTION STAGING, STAGE II  
GOLF ROAD AT HARMS ROAD**

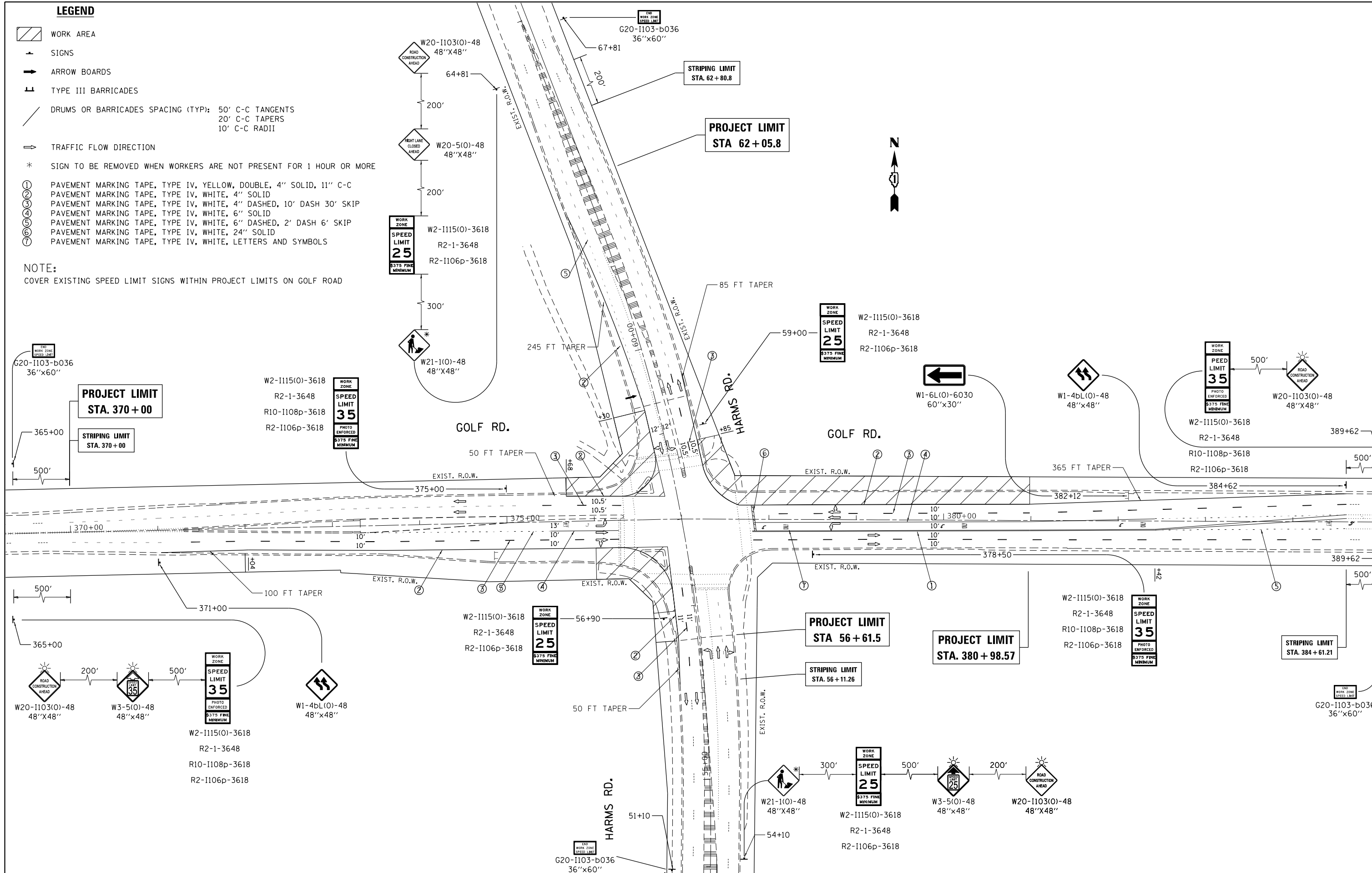
SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	24
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  WORK AREA
-  SIGNS
-  ARROW BOARDS
-  TYPE III BARRICADES
-  DRUMS OR BARRICADES SPACING (TYP):  
50' C-C TANGENTS  
20' C-C TAPERS  
10' C-C RADII
-  TRAFFIC FLOW DIRECTION
- \* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP
- ⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
- ⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS

NOTE:  
COVER EXISTING SPEED LIMIT SIGNS WITHIN PROJECT LIMITS ON GOLF ROAD



FILE NAME =	USER NAME = ldezmarm	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

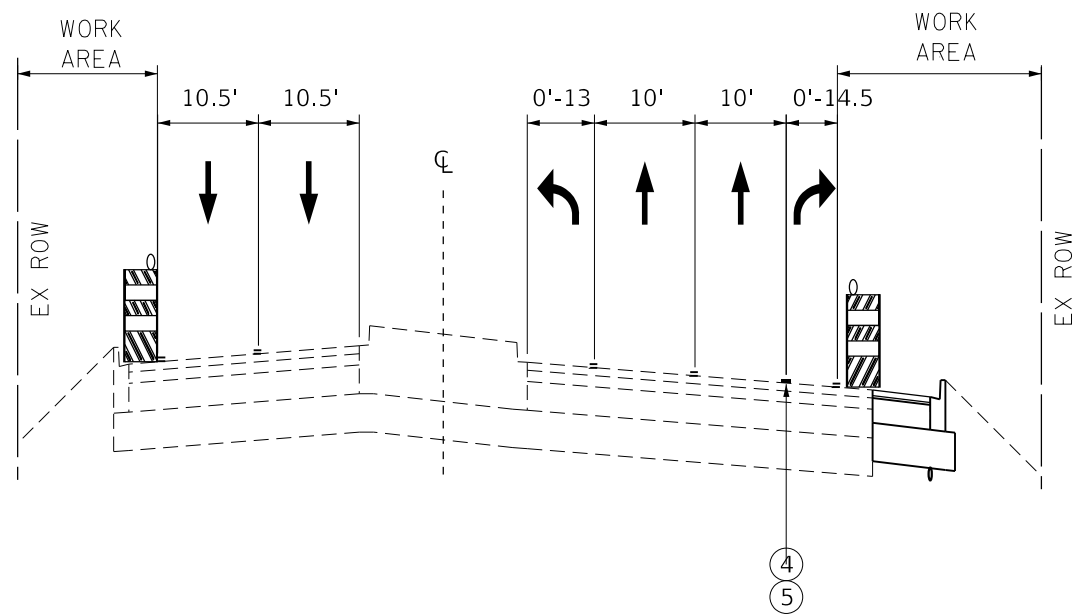
**SUGGESTED MAINTENANCE OF TRAFFIC, STAGE II  
GOLF ROAD AT HARMS ROAD**

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

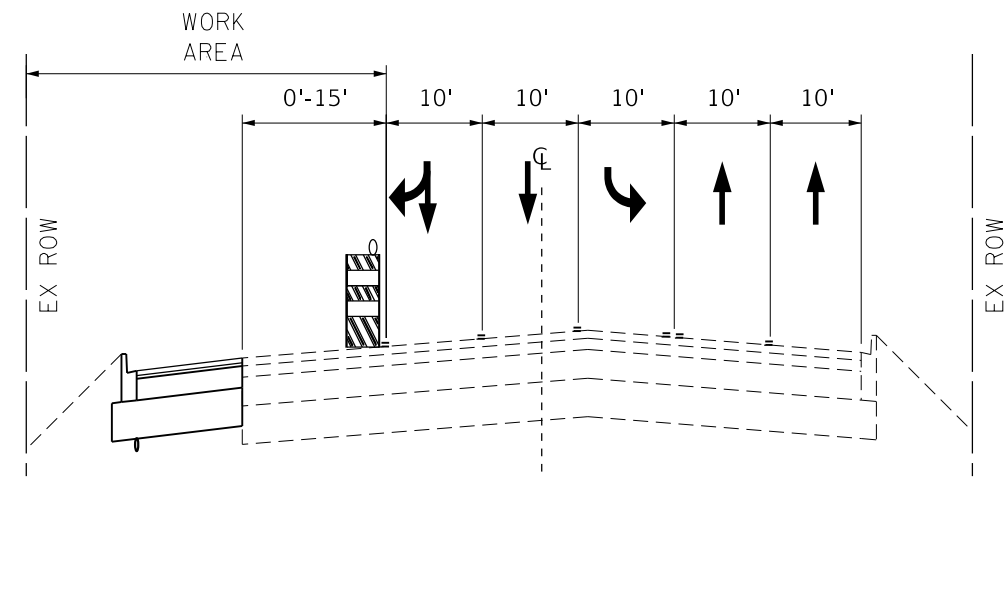
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	25
CONTRACT NO. 60Y74			ILLINOIS FED. AID PROJECT	

**LEGEND**

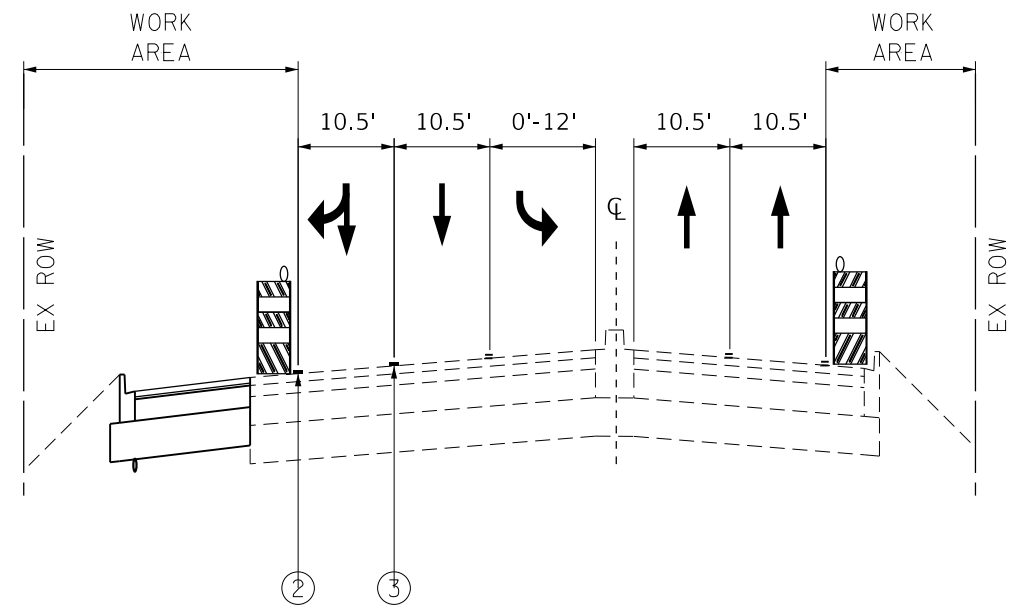
- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP



GOLF ROAD  
STA. 371+84 TO 375+79



GOLF ROAD  
STA. 377+20 TO 380+99



HARMS ROAD  
STA. 58+31 TO 61+71

NOTES:  
-ITEM PAVEMENT MARKING REMOVAL - WATER BLASTING SHALL BE USED TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS DURING STAGE III

FILE NAME =	USER NAME = ledezmar	DESIGNED -	REVISED -
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Default	PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS, SUGGESTED CONSTRUCTION STAGING, STAGE III  
GOLF ROAD AT HARMS ROAD**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

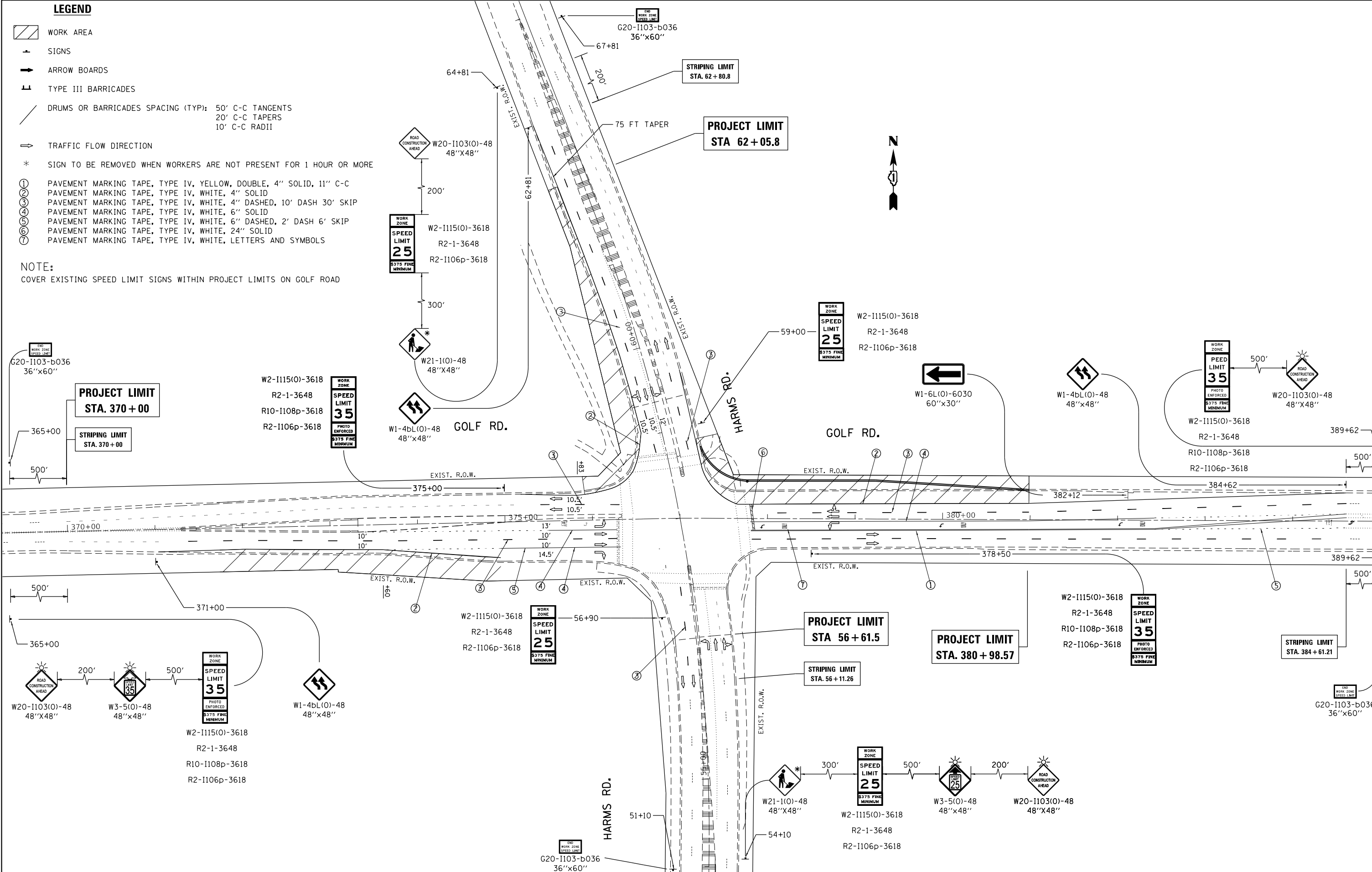
F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y74	



**LEGEND**

- WORK AREA
- SIGNS
- ARROW BOARDS
- TYPE III BARRICADES
- DRUMS OR BARRICADES SPACING (TYP):  
50' C-C TANGENTS  
20' C-C TAPERS  
10' C-C RADII
- TRAFFIC FLOW DIRECTION
- \* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP
- ⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
- ⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS

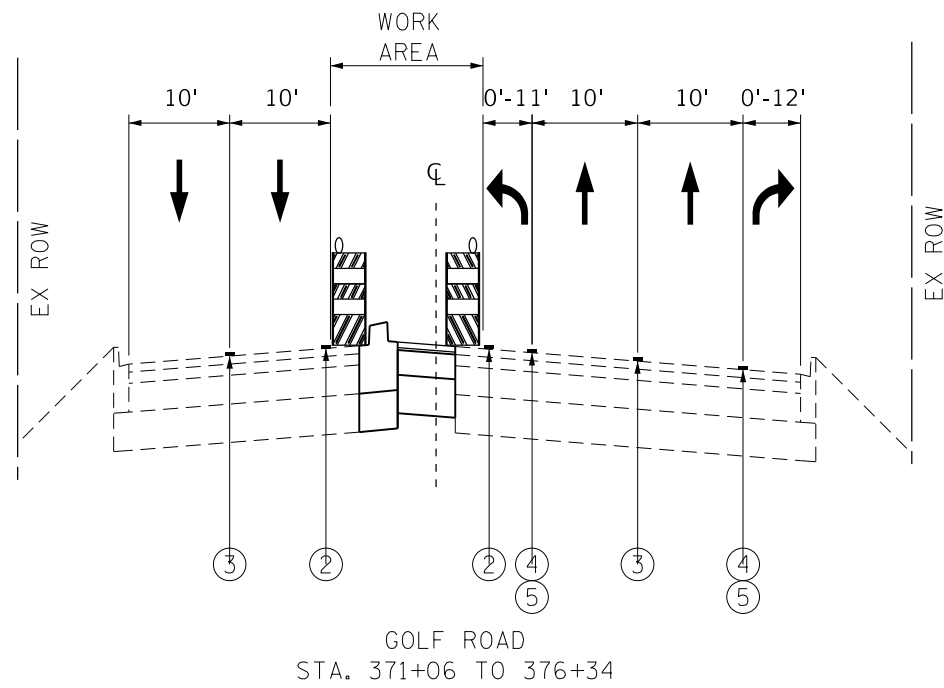
NOTE:  
COVER EXISTING SPEED LIMIT SIGNS WITHIN PROJECT LIMITS ON GOLF ROAD



FILE NAME =	USER NAME = ledezarm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED MAINTENANCE OF TRAFFIC, STAGE III GOLF ROAD AT HARMS ROAD</b>	F.A.U. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planning\dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\Design\P170809-sht-cover.dgn		CHECKED -	REVISED -			1312	584N(14)	COOK	73	27	
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -			CONTRACT NO. 60Y74					
	PLOT DATE = 10/18/2019					ILLINOIS FED. AID PROJECT					

**LEGEND**

- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ③ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP



FILE NAME =	USER NAME = ledezmar	DESIGNED -	REVISED -
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





**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS, SUGGESTED CONSTRUCTION STAGING, STAGE IV  
GOLF ROAD AT HARMS ROAD**

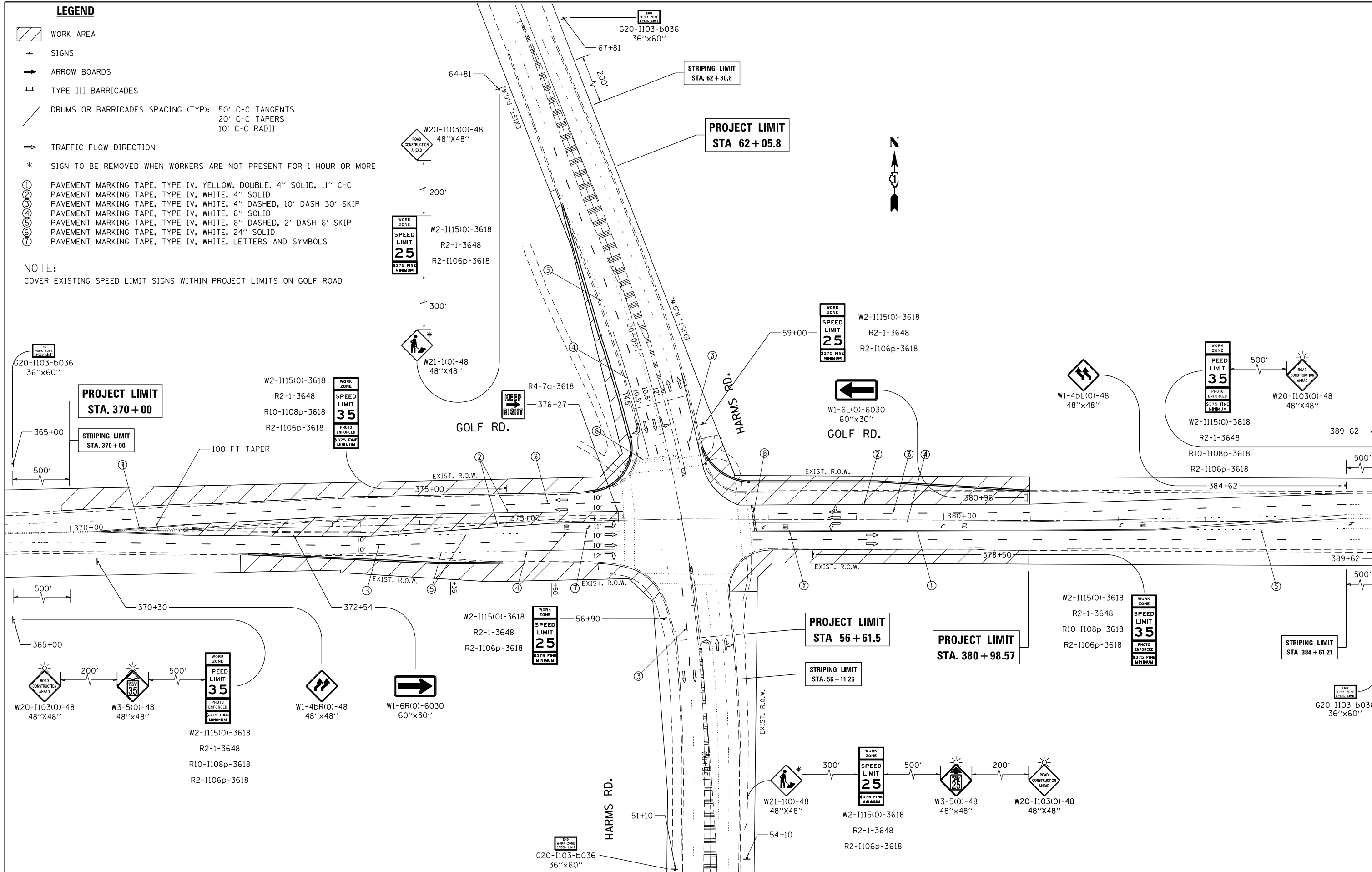
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y74	

**LEGEND**

-  WORK AREA
-  SIGNS
-  ARROW BOARDS
-  TYPE III BARRICADES
-  DRUMS OR BARRICADES SPACING (TYP): 50' C-C TANGENTS  
20' C-C TAPERS  
10' C-C RADII
-  TRAFFIC FLOW DIRECTION
- \* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
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- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP
- ⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
- ⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS

NOTE:  
COVER EXISTING SPEED LIMIT SIGNS WITHIN PROJECT LIMITS ON GOLF ROAD



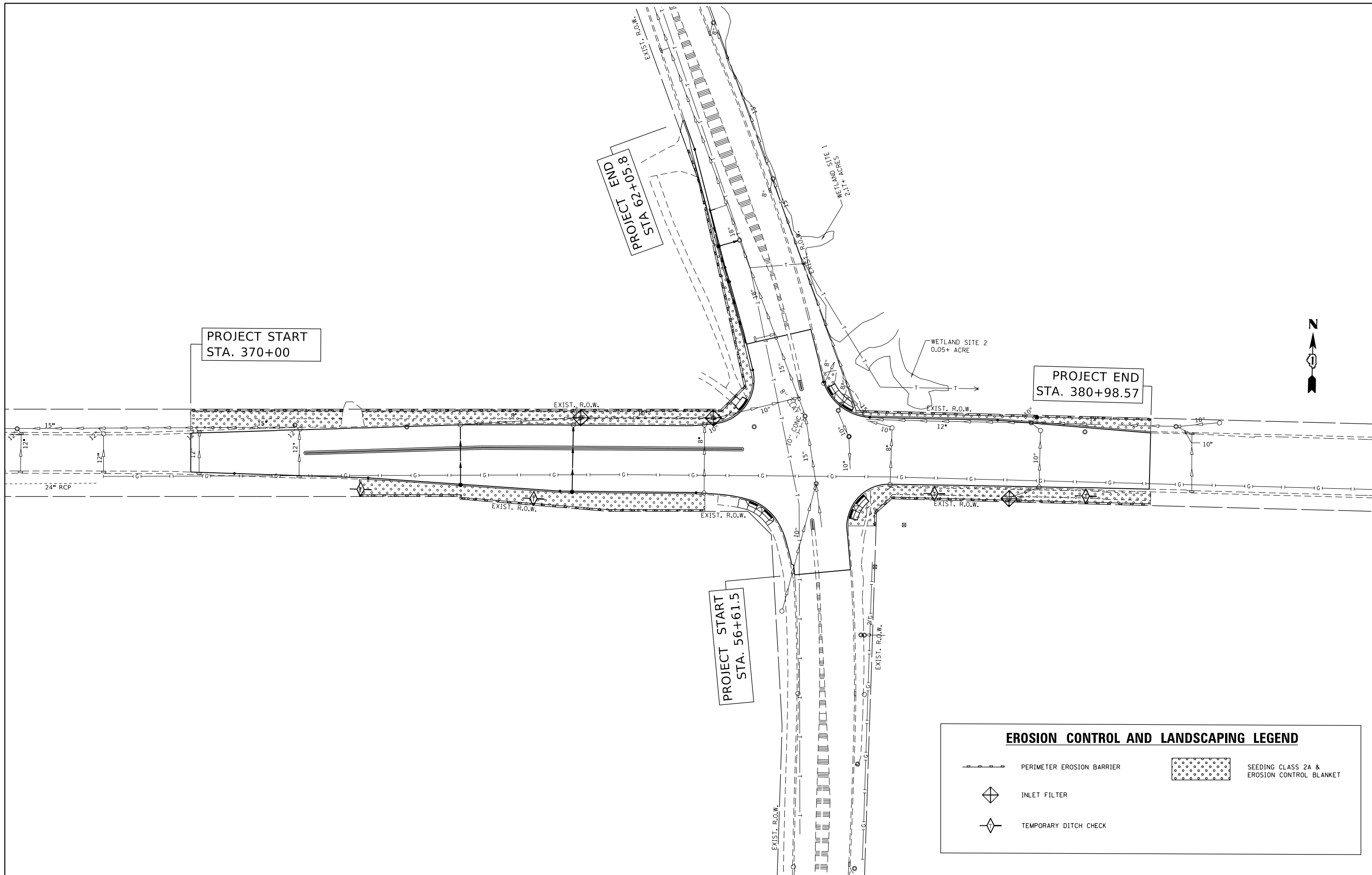
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC, STAGE IV  
GOLF ROAD AT HARMS ROAD**

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	29
CONTRACT NO. 60Y74			ILLINOIS FED. AID PROJECT	






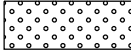
PROJECT START  
STA. 370+00

PROJECT END  
STA. 62+05.8

PROJECT END  
STA. 380+98.57

PROJECT START  
STA. 56+61.5

**EROSION CONTROL AND LANDSCAPING LEGEND**

-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  SEEDING CLASS 2A & EROSION CONTROL BLANKET

FILE NAME =	USER NAME = ledezmar	DESIGNED -	REVISED -
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Default	PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING PLAN  
GOLF ROAD AT HARMS ROAD**

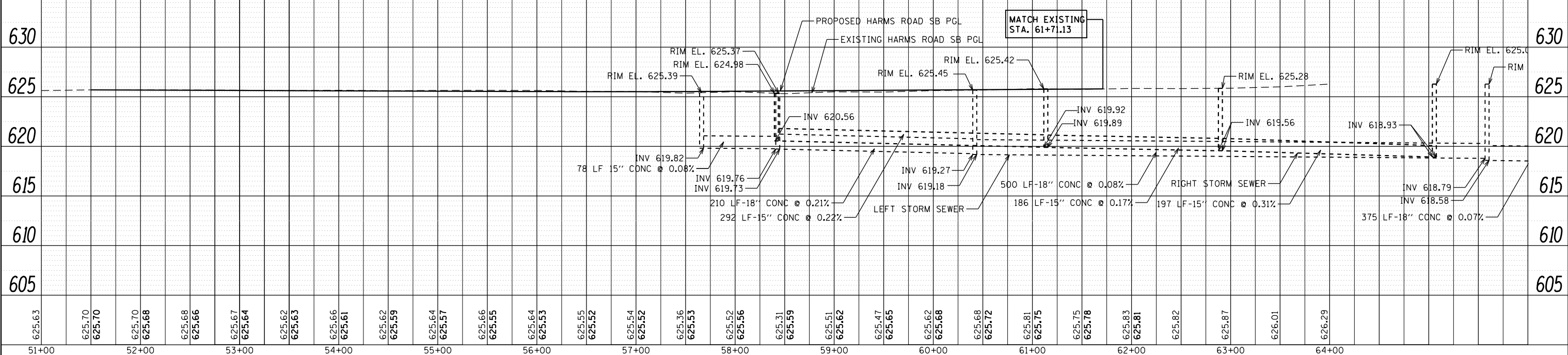
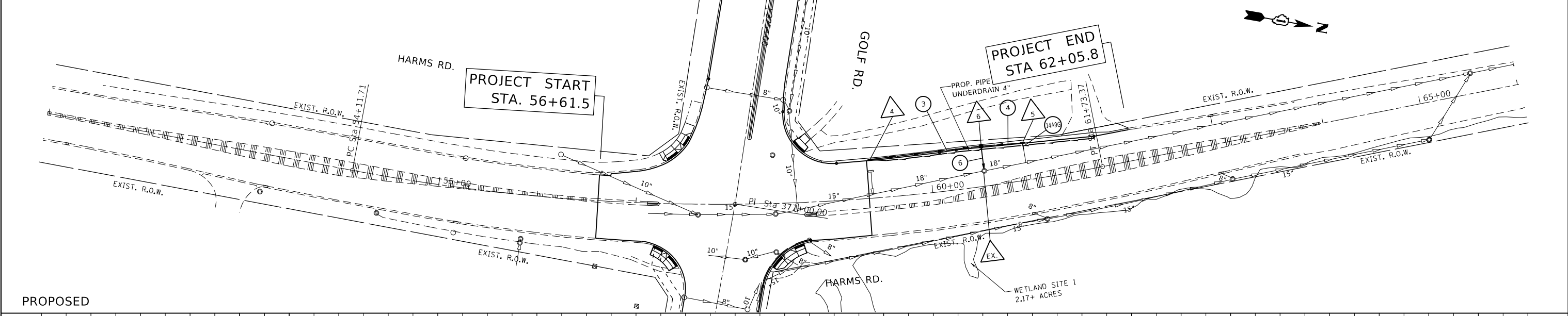
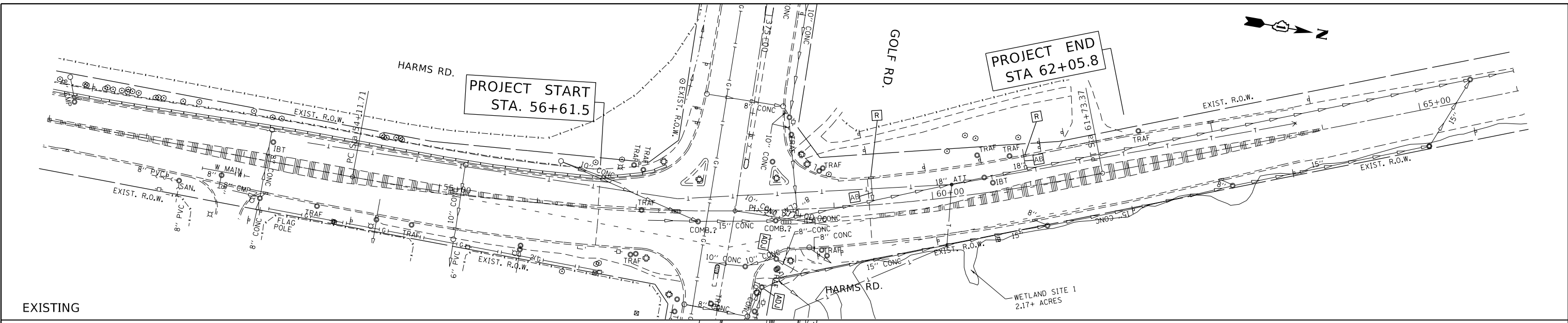
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	30
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
PLAN	
NO. BOOK	
NO.	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
DESIGNED	
FILE NAME	

DATE	
BY	
PROFILE	
NO. BOOK	
NO.	
SURVEYED	
PLOTTED	
GRADES	
CHECKED	
STRUCTURE	
NOTATION	
CHKD	



FILE NAME =	USER NAME = ledznm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE GOLF ROAD AT HARMS ROAD				F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					1312	584N(14)	COOK	73	32				
					SCALE: 1"=50'				CONTRACT NO. 60Y74				
					SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				

**DRAINAGE PIPES TABLE**

NO.	PIPE LOCATION		STATION - STATION	DESCRIPTION / COMMENTS	DIA (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CY)	WATER MAIN QUALITY
	FROM STR.	TO STR.							
1	1	EX MH	373+09.00 - 373+09.00	SS. CLASS A, TYPE 2	8	64	0.28%	1.3	YES
2	2	EX MH	374+37.00 - 374+38.00	SS. CLASS A, TYPE 2	8	72	0.28%	2.8	YES
3	4	6	59+37.00 - 60+52.75	SS. CLASS A, TYPE 2	12	108	1.00%	20.2	NO
4	5	6	60+52.75 - 60+97.00	SS. CLASS A, TYPE 2	12	40	1.01%	9.6	NO
5	3	EX MH	379+62.00 - 379+68.00	SS. CLASS A, TYPE 2	10	6	1.17%	0.0	NO
6	6	EX	60+52.75 - 60+54.37	SS. CLASS A, TYPE 2	12	21	1.02%	5.2	NO

**DRAINAGE STRUCTURES TABLE**

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE			DIA (FT)	F&G TYPE	RIM ELEV (FT)	INVERT (FT)	INVERT (FT)	INVERT (FT)	INVERT (FT)
			MH	CB	INLET							
1	373+09.00	36.8 RT		C		2	1 OL	624.52	622.03 N			
2	374+37.00	44.77 RT		C		2	1 OL	624.38	621.74 N			
3	379+68.00	47.47 LT		C		2	1 OL	622.98	621.36 S			
4	59+37.00	38.97 LT			A	2	24 OL	624.59	620.51 E			
5	60+97.00	37.81 LT			A	2	24 OL	624.82	619.83 E			
6	60+52.75	40.71 LT		A		4	24 OL	624.55	619.41 E	619.43 S	619.42 N	
EX	60+54.37	15.45 LT	A			EX	EX CL	624.44	619.2 W			

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 PROJECT: I:\Projects\170809\COO\DATA\Des\170809-structschedule.dwg

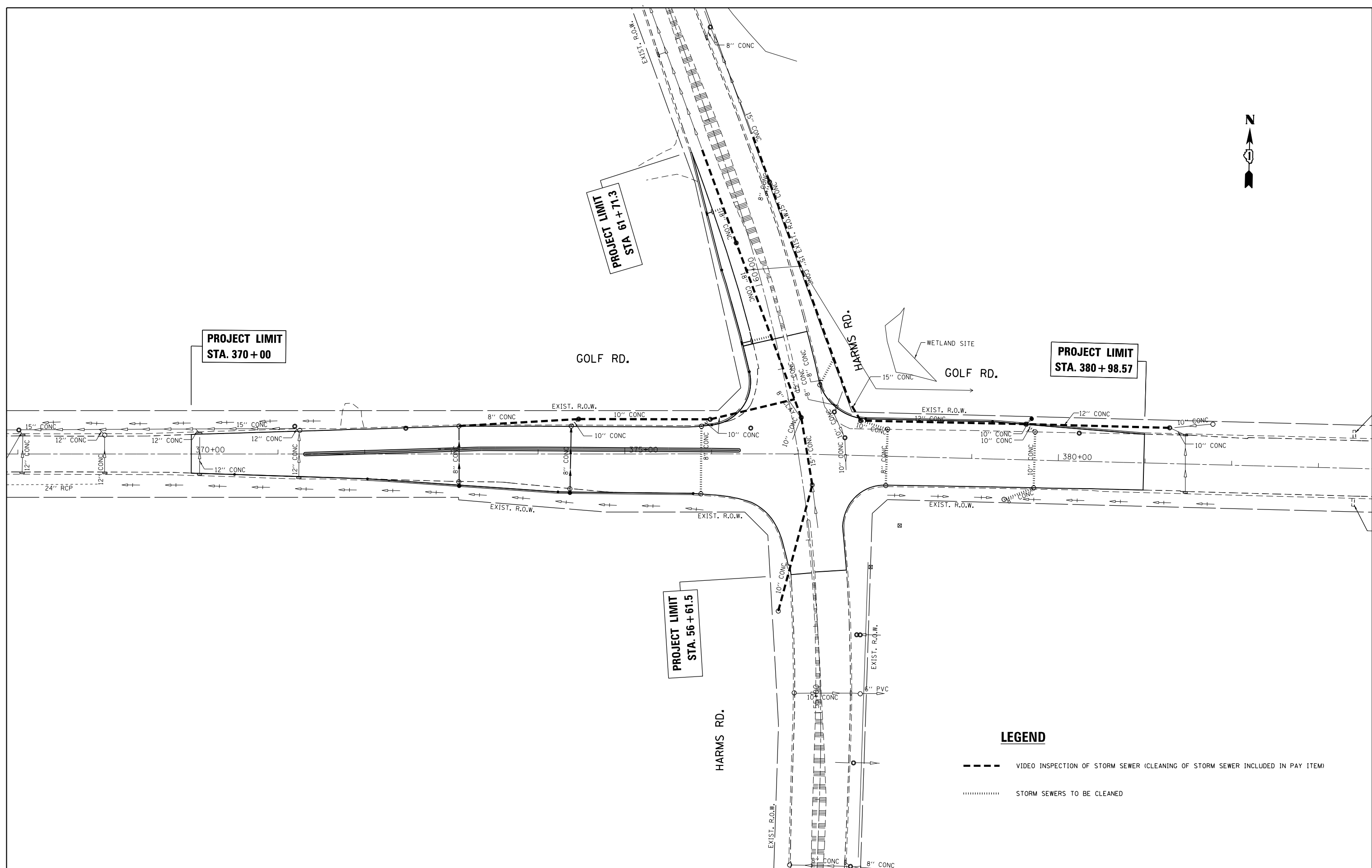
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE STRUCTURES AND PIPES SCHEDULE  
GOLF ROAD AT HARMS ROAD**

SCALE: NTS      SHEET      OF      SHEETS      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	33
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- VIDEO INSPECTION OF STORM SEWER (CLEANING OF STORM SEWER INCLUDED IN PAY ITEM)
- ..... STORM SEWERS TO BE CLEANED

FILE NAME =	USER NAME = ledezmar	DESIGNED -	REVISED -
p:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\Design\P170809-Print		CHECKED -	REVISED -
Default	PLOT DATE = 10/18/2019	DATE -	REVISED -

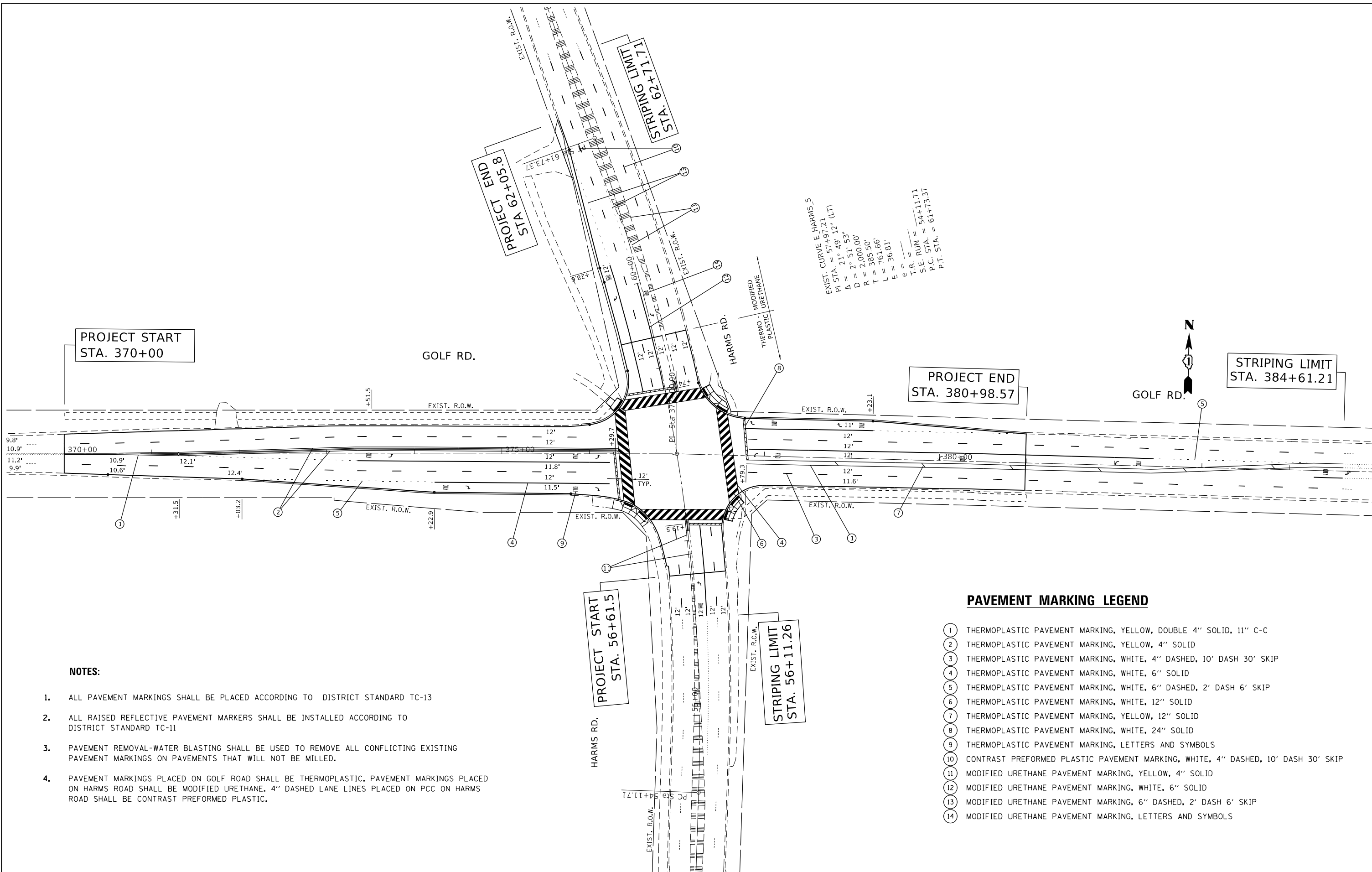
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VIDEO INSPECTION AND STORM SEWER CLEANING PLAN  
GOLF ROAD AT HARMS ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	34
CONTRACT NO. 60Y74			ILLINOIS FED. AID PROJECT	

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.





PROJECT START  
STA. 370+00

PROJECT END  
STA. 380+98.57

STRIPING LIMIT  
STA. 384+61.21

PROJECT START  
STA. 56+61.5

STRIPING LIMIT  
STA. 56+11.26

**NOTES:**

1. ALL PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO DISTRICT STANDARD TC-13
2. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO DISTRICT STANDARD TC-11
3. PAVEMENT REMOVAL-WATER BLASTING SHALL BE USED TO REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS ON PAVEMENTS THAT WILL NOT BE MILLED.
4. PAVEMENT MARKINGS PLACED ON GOLF ROAD SHALL BE THERMOPLASTIC. PAVEMENT MARKINGS PLACED ON HARMS ROAD SHALL BE MODIFIED URETHANE. 4" DASHED LANE LINES PLACED ON PCC ON HARMS ROAD SHALL BE CONTRAST PREFORMED PLASTIC.

**PAVEMENT MARKING LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING, YELLOW, DOUBLE 4" SOLID, 11" C-C
- ② THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" SOLID
- ③ THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ④ THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" SOLID
- ⑤ THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" DASHED, 2' DASH 6' SKIP
- ⑥ THERMOPLASTIC PAVEMENT MARKING, WHITE, 12" SOLID
- ⑦ THERMOPLASTIC PAVEMENT MARKING, YELLOW, 12" SOLID
- ⑧ THERMOPLASTIC PAVEMENT MARKING, WHITE, 24" SOLID
- ⑨ THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS
- ⑩ CONTRAST PREFORMED PLASTIC PAVEMENT MARKING, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ⑪ MODIFIED URETHANE PAVEMENT MARKING, YELLOW, 4" SOLID
- ⑫ MODIFIED URETHANE PAVEMENT MARKING, WHITE, 6" SOLID
- ⑬ MODIFIED URETHANE PAVEMENT MARKING, 6" DASHED, 2' DASH 6' SKIP
- ⑭ MODIFIED URETHANE PAVEMENT MARKING, LETTERS AND SYMBOLS

FILE NAME =	USER NAME = ldeznorm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN GOLF ROAD AT HARMS ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom\dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P170809\Drawings\CADsheets\P170809-sh1-pmk.dgn		CHECKED -	REVISED -		1312	584N(14)	COOK	73	35			
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		CONTRACT NO.							
	PLOT DATE = 10/18/2019				ILLINOIS FED. AID PROJECT							

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	 	 
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	  	  
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	   	   
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I	 	 			
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP	 	 			
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR	 	 			
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	 	 			
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR	 	 			
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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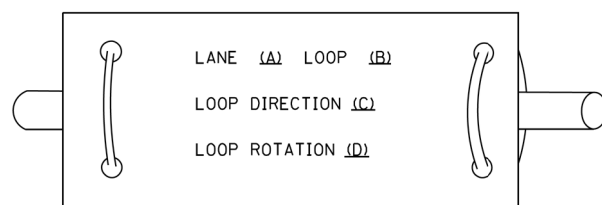
**TS 5155  
ECON 08**

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Default	PLOT SCALE = 20,0000' / in.	CHECKED - LP	REVISIED -	SCALE: NONE	SHEET 1 OF 7 SHEETS	CONTRACT NO. 60Y74		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 12/28/2017	DATE - 6/8/2016	REVISIED -	STA. TO STA.						

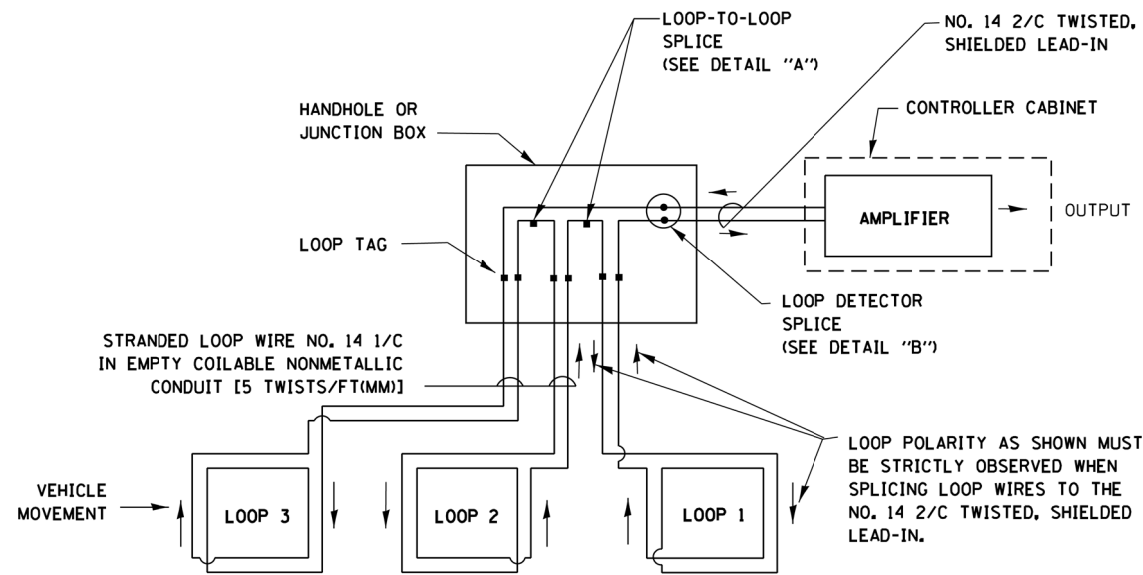
**LOOP DETECTOR NOTES**

- 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.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 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.
- 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.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PERFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

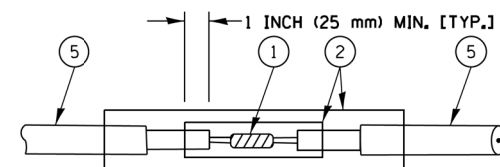


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

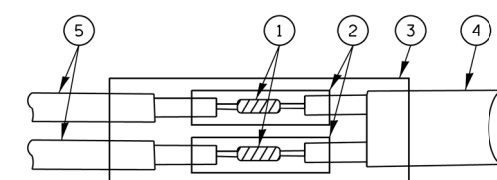


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

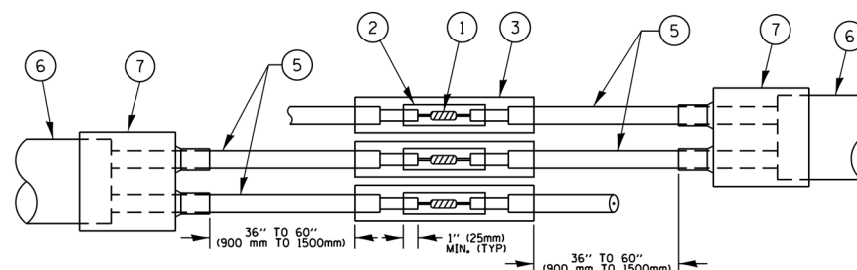


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

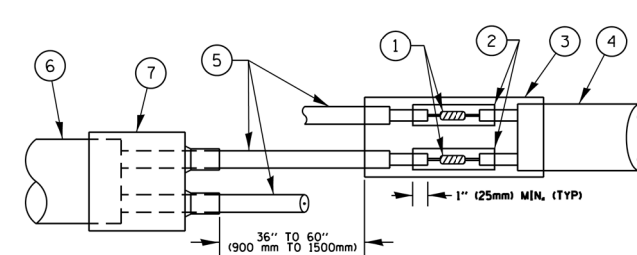


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

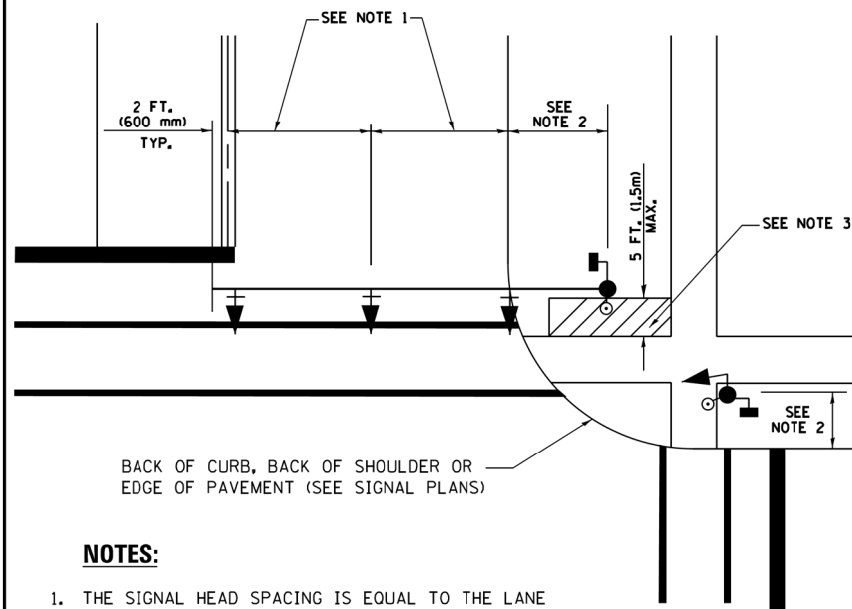
- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

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Default	PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -			SCALE: NONE	SHEET 2 OF 7 SHEETS	STA. TO STA.	CONTRACT NO. 60Y74			
	PLOT DATE = 12/28/2017	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
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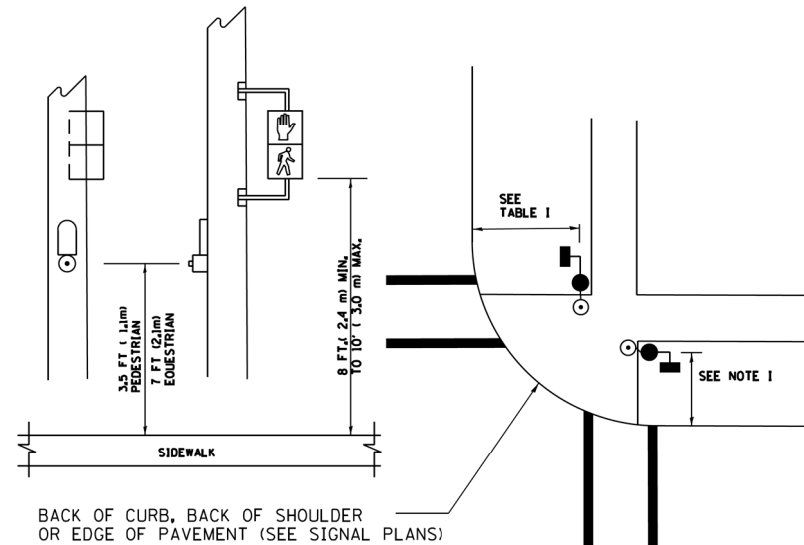
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

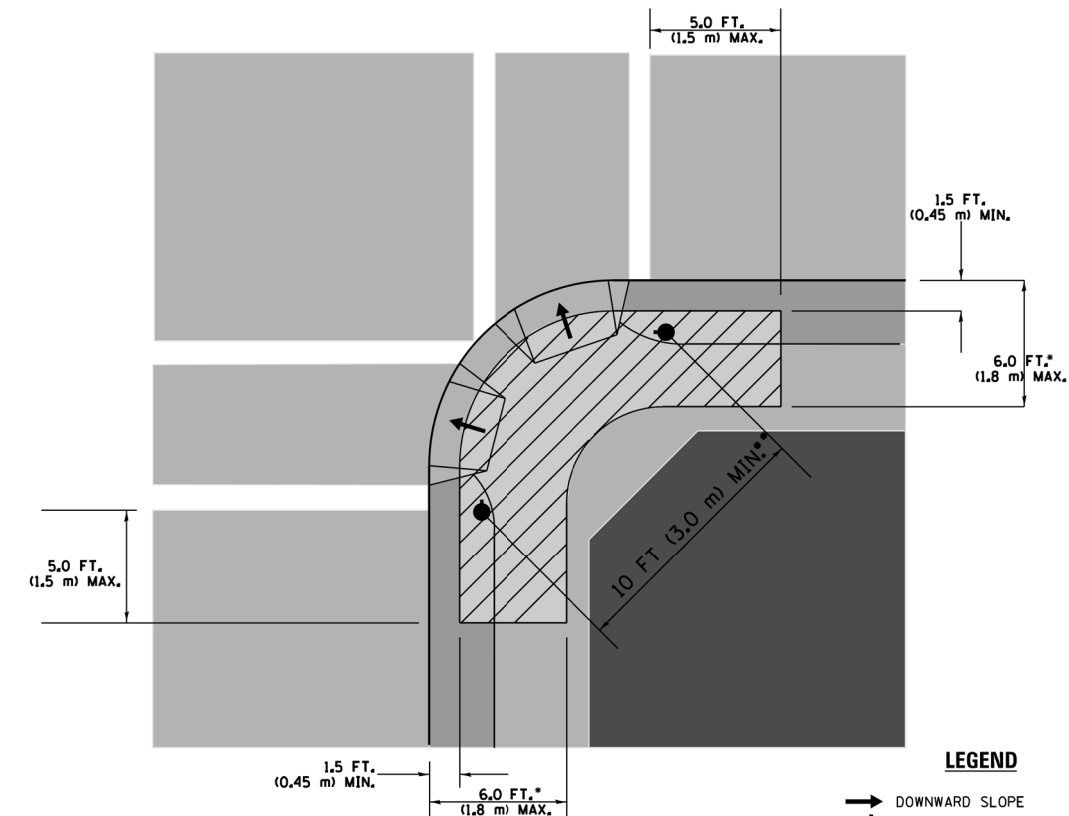
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

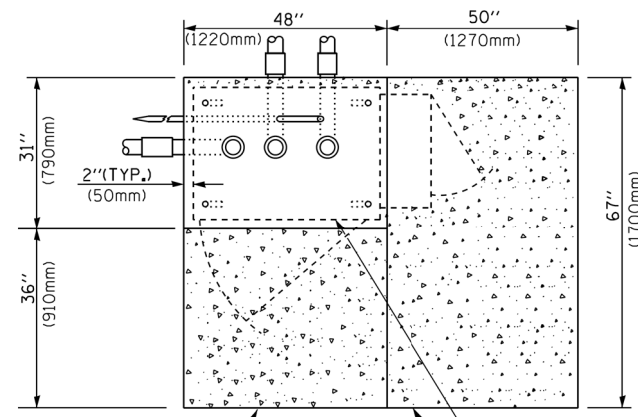
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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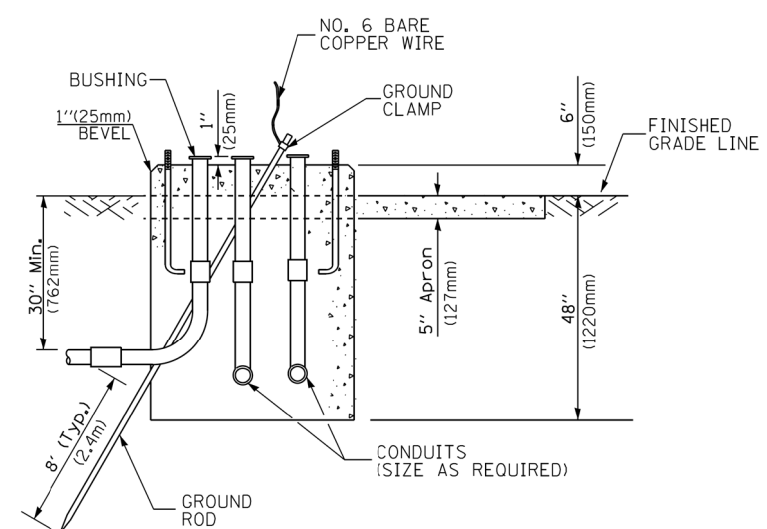
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Default	PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -			1312	584N(14)	COOK	73	38	
	PLOT DATE = 12/28/2017	CHECKED -	REVISED -			CONTRACT NO. 60Y74					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

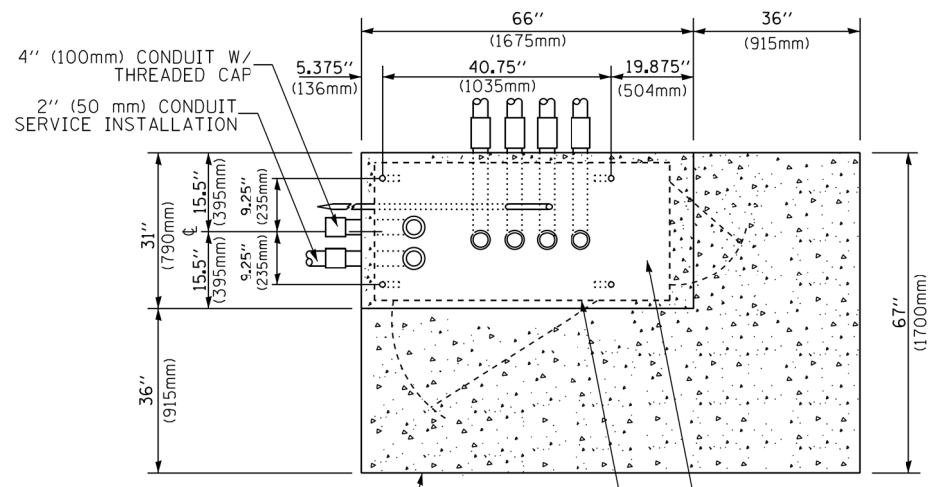




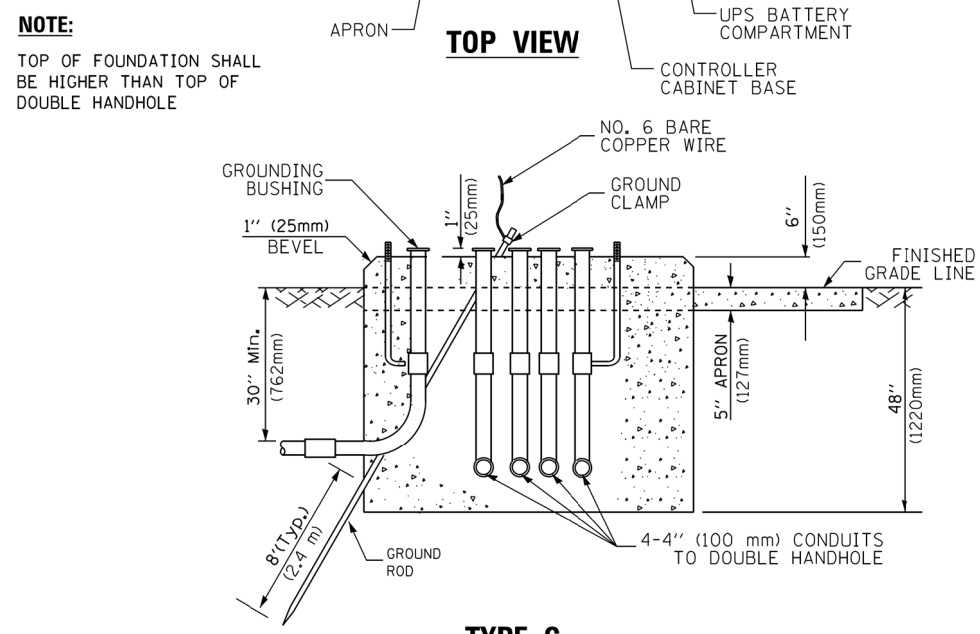
**TOP VIEW**



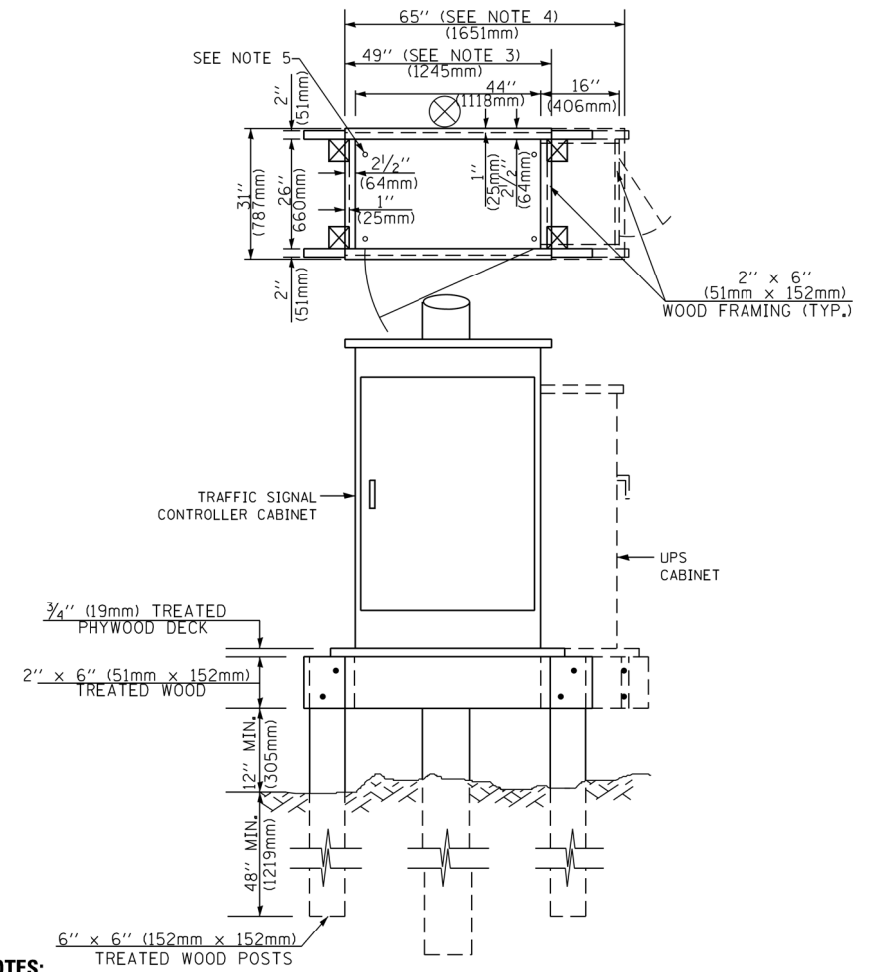
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TOP VIEW**



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

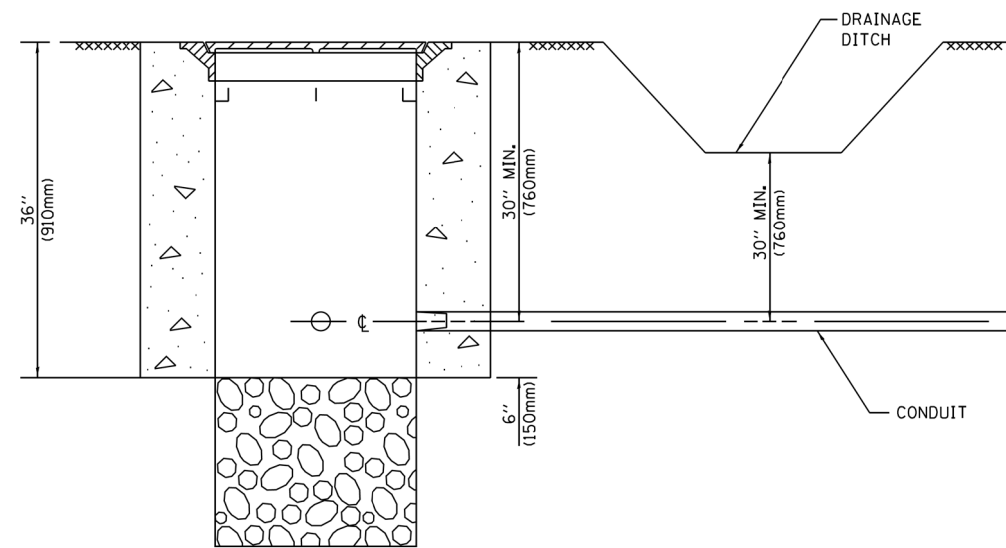
**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

**TS 5155  
ECON 08**

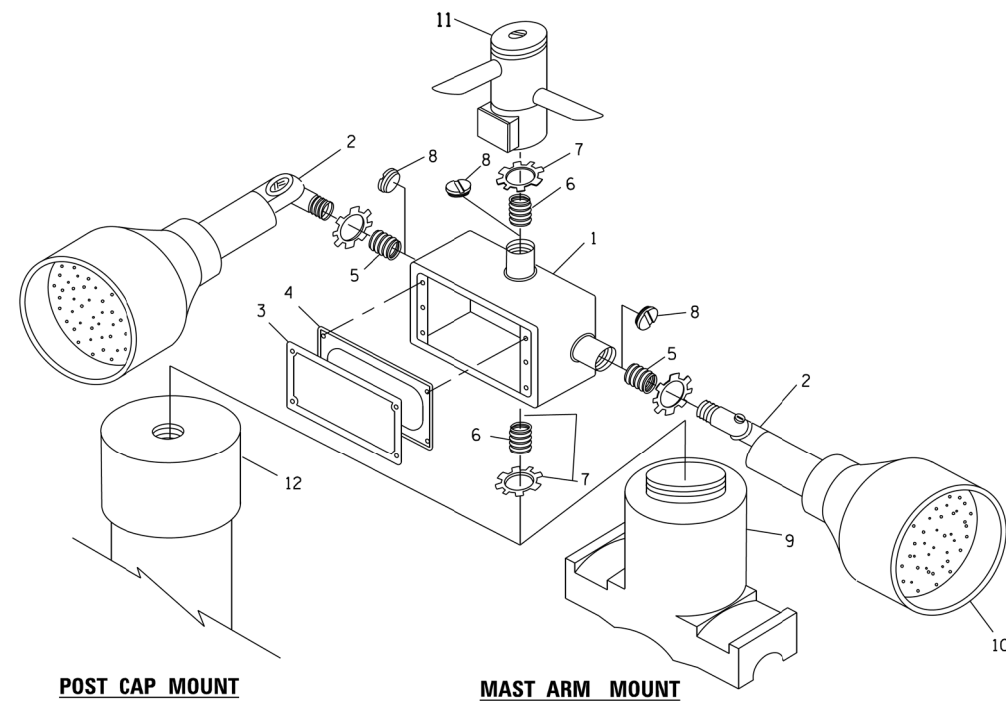
**TS SHT. NO. 05**



**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)

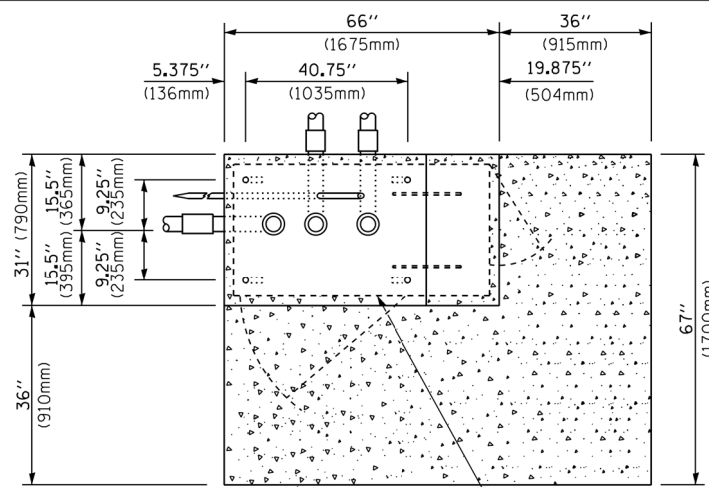


**POST CAP MOUNT**      **MAST ARM MOUNT**  
**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

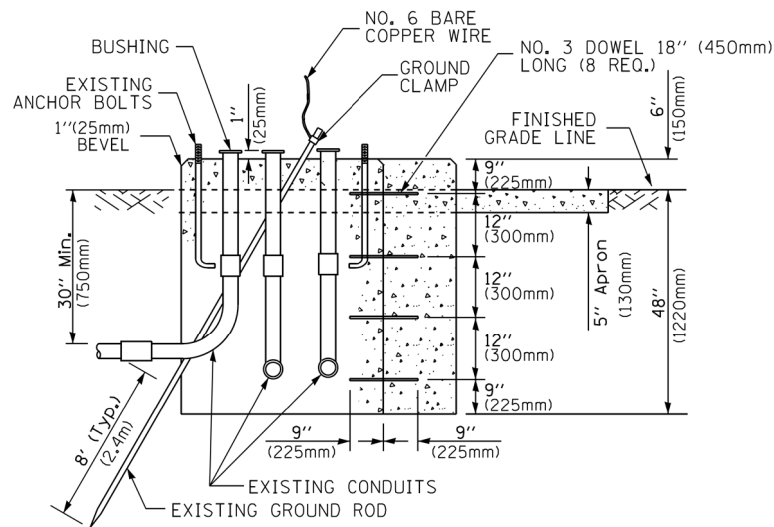
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

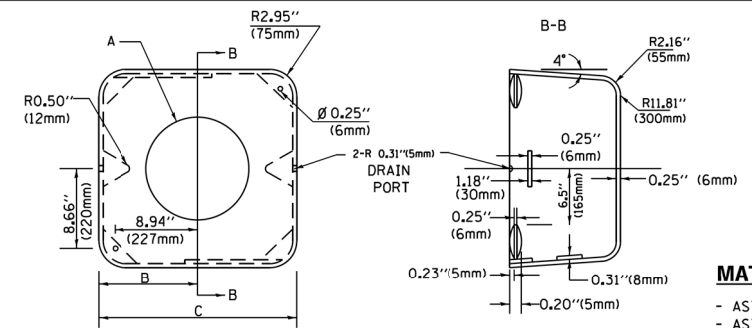
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**TOP VIEW**  
(NOT TO SCALE)



**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

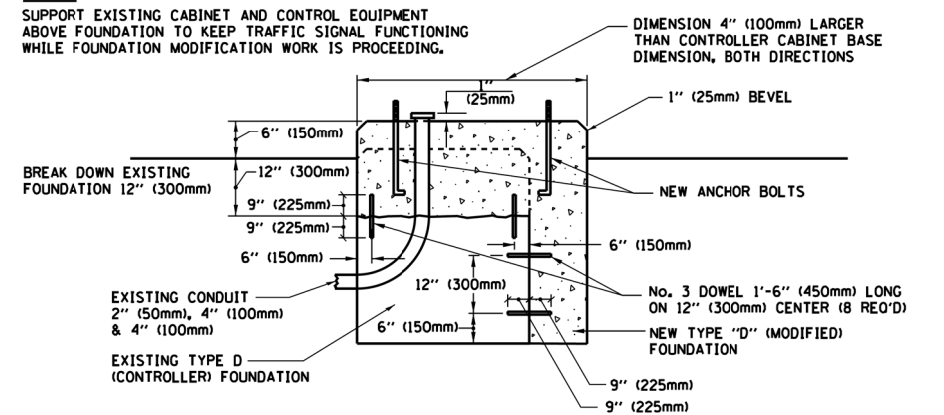
**SHROUD**

**NOTES:**

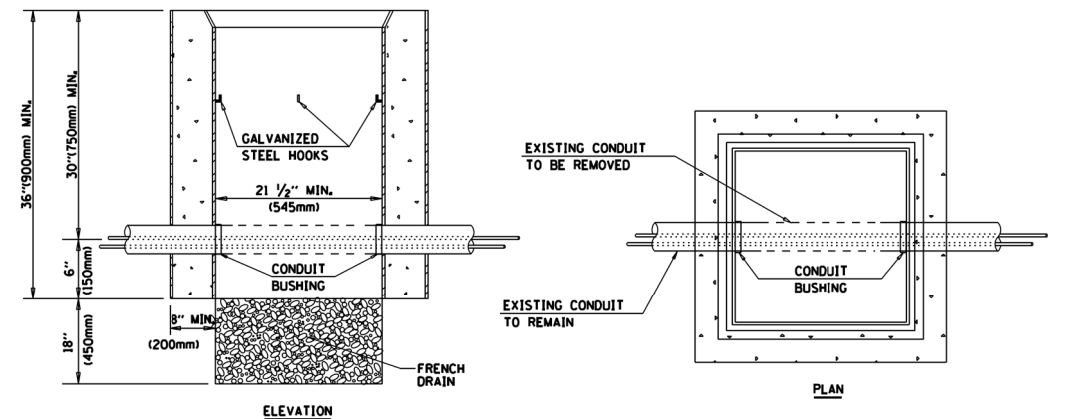
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

**TS 5155**  
**ECON 08**

**TS SHT. NO. 06**

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		DATE -	REVISED -

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

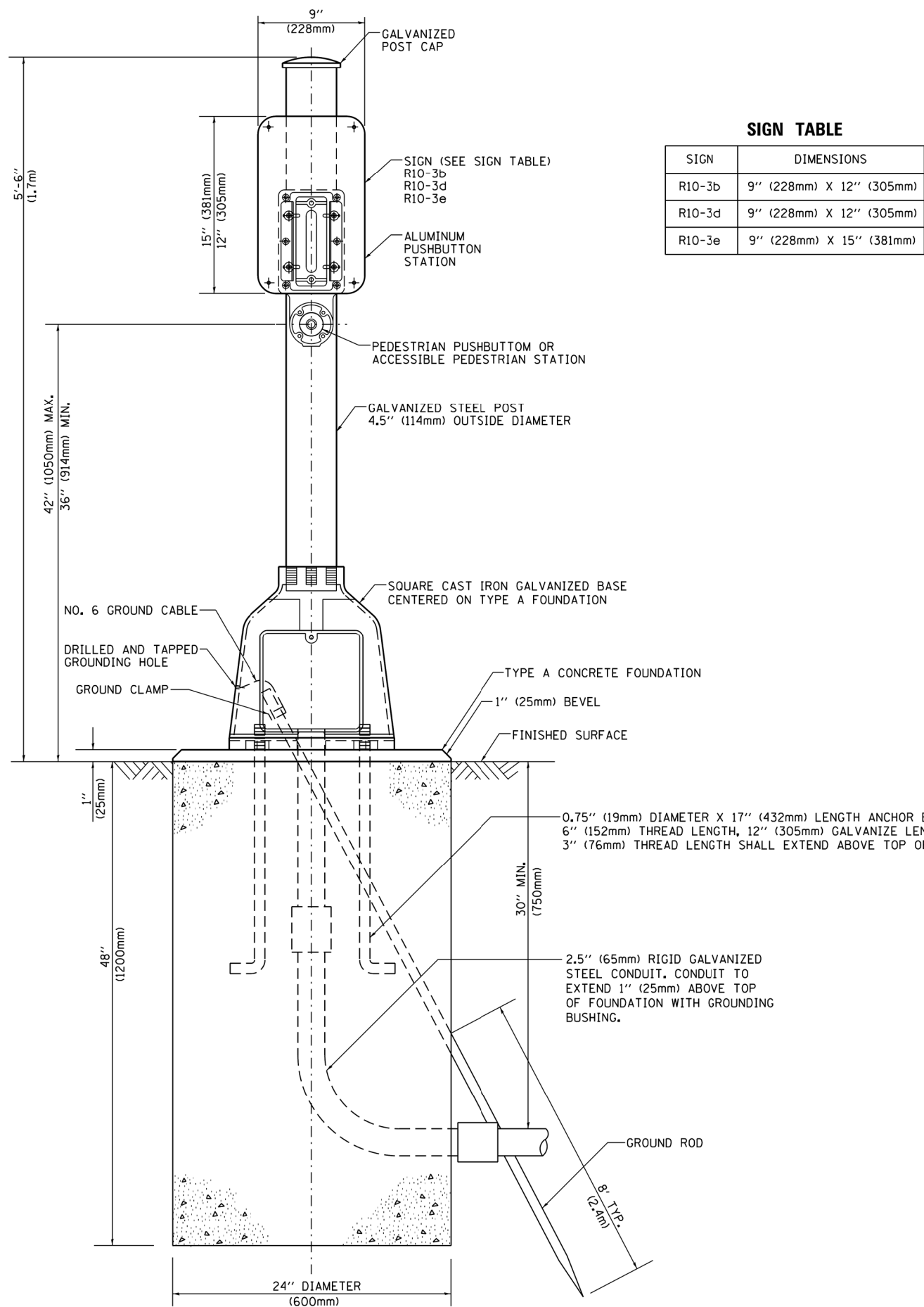
**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE    SHEET 6 OF 7 SHEETS    STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(4)	COOK	73	41
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

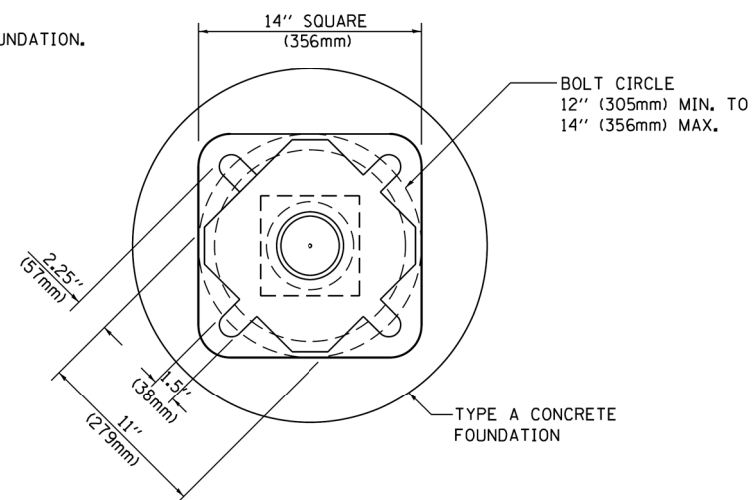


TS SHT. NO. 07



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

TS 5155  
ECON 08

FILE NAME = J:\Microst\352114 COLF ROAD\Dgn\Eng\Drawings\Final Drafting\0160Y74-SHT-TS07.dgn	USER NAME = RICH	DESIGNED -	REVISED -
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Default	PLOT DATE = 2/5/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

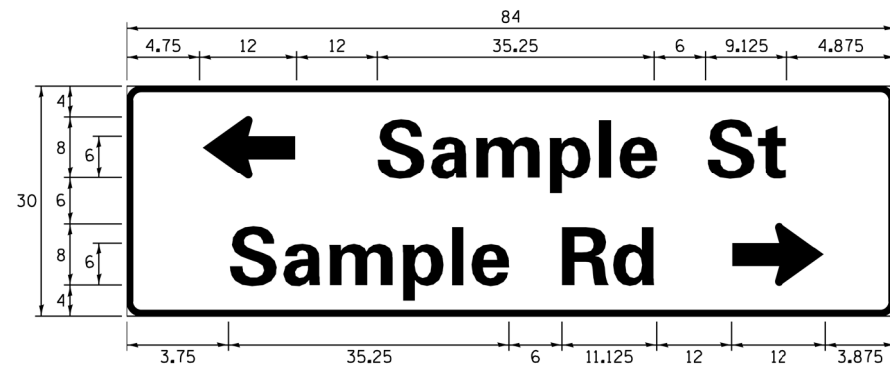
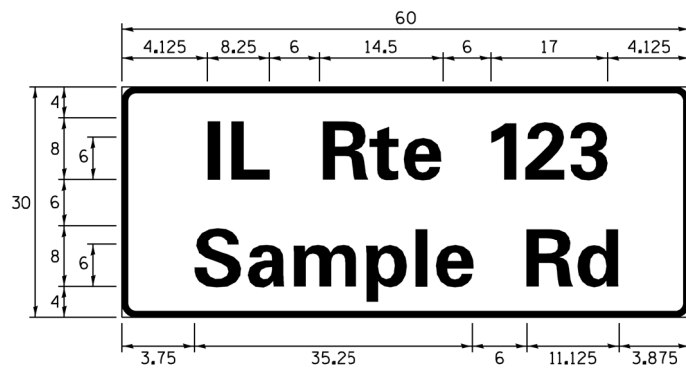
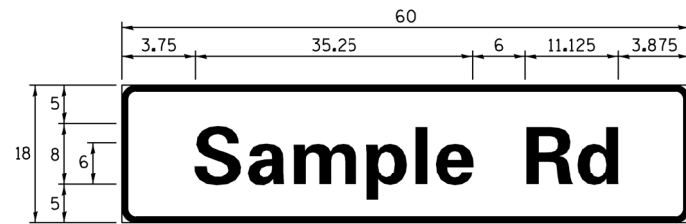
DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	42
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				



**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

**COMMON STREET NAME ABBREVIATIONS AND WIDTHS**

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

**LOCAL SUPPLIERS:**

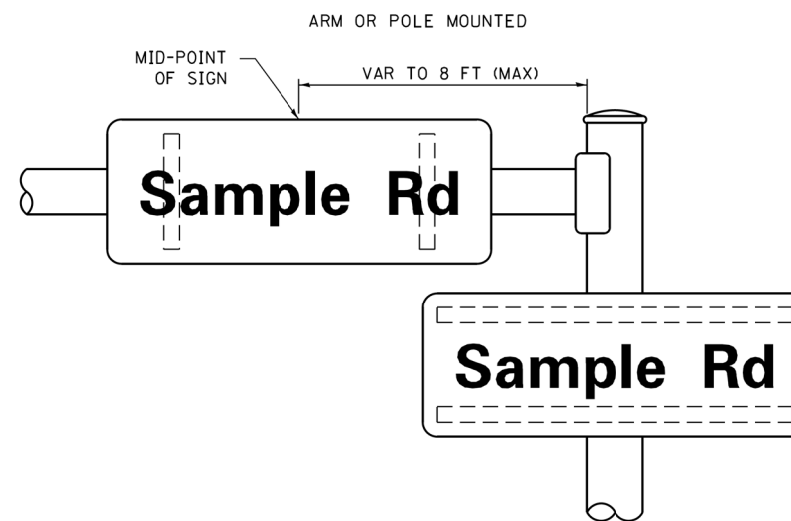
- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

**PARTS LISTING:**

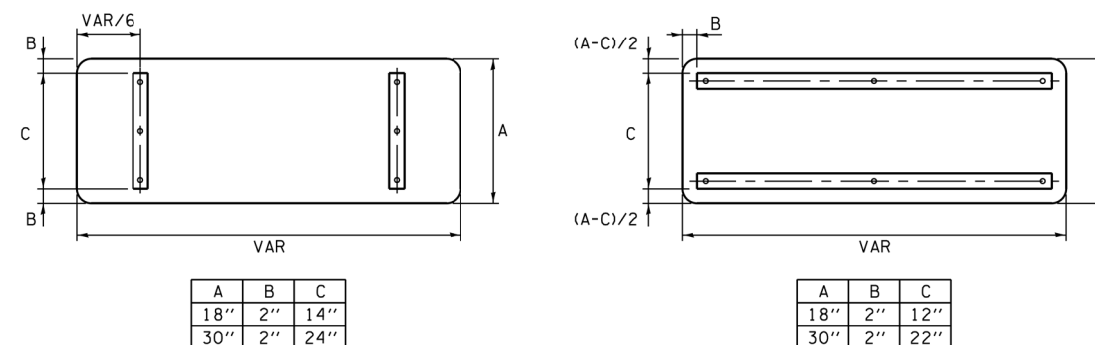
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
1/4" x 14 x 1" H.W.H. #3  
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

**MOUNTING LOCATION**



**SUPPORTING CHANNELS**



**STANDARD ALPHABETS SPACING CHART**

(8") UPPER CASE AND (6") LOWER CASE

CHARACTER	FHWA SERIES "C"			FHWA SERIES "D"			
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.952	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.352	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.952	0.160	y	0.160	6.004	0.160
z	0.240	3.352	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.952	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT. NO. 08

TS 5155  
ECON 08

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PLOT SCALE = 20.0000' / in.	CHECKED - IP	REVISOR -	REVISOR -			SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 60Y74			
DATE - 10/01/2014	DATE - 2/5/2018	DATE -	DATE -			ILLINOIS FED. AID PROJECT						
Default												

**REMOVAL NOTES:**

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 4 EACH MAST ARM ASSEMBLY AND POLE
- 1 EACH SERVICE INSTALLATION
- 2 EACH TRAFFIC SIGNAL POST, 10'

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE VILLAGE.

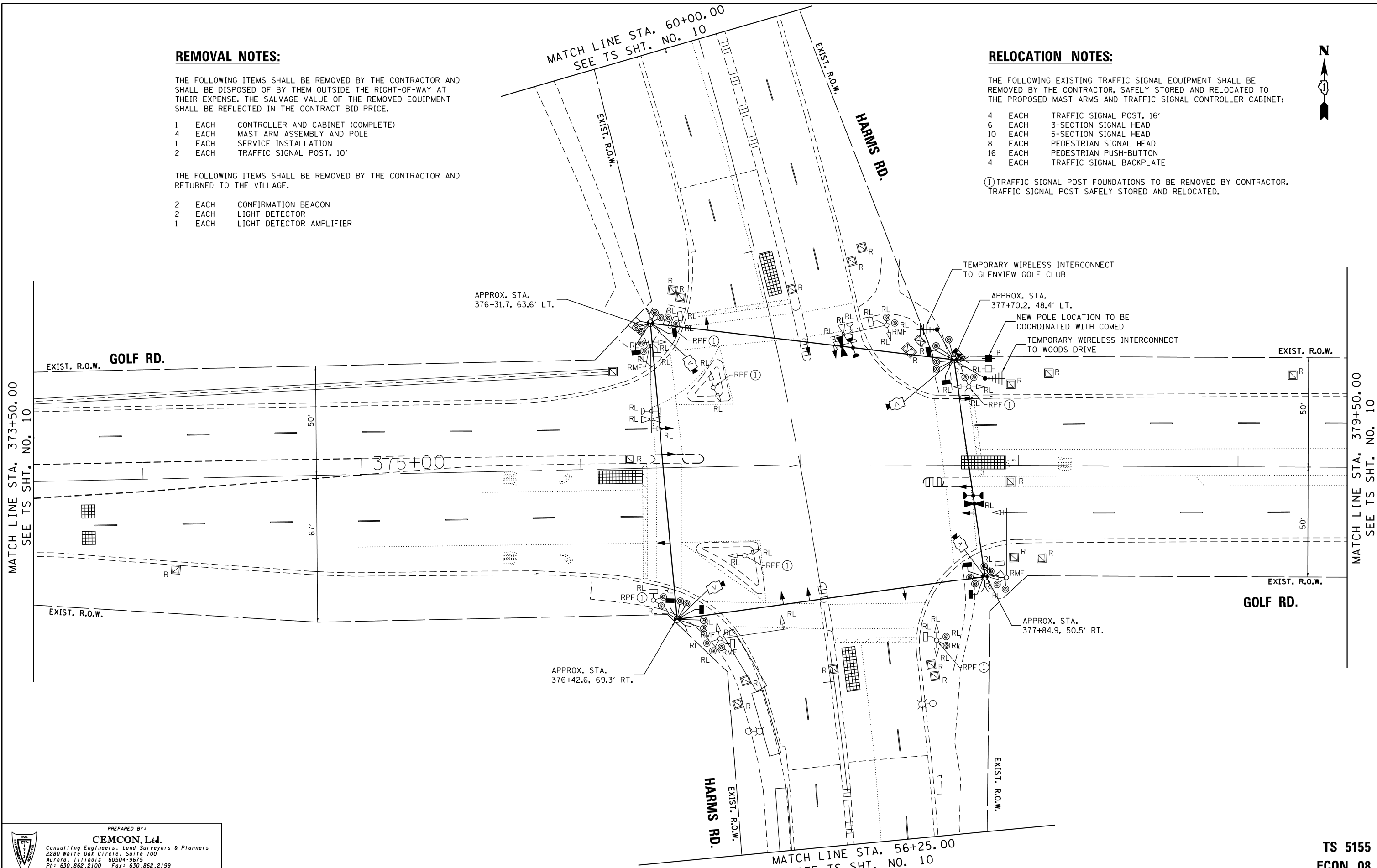
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

**RELOCATION NOTES:**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER CABINET:


- 4 EACH TRAFFIC SIGNAL POST, 16'
- 6 EACH 3-SECTION SIGNAL HEAD
- 10 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 16 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH TRAFFIC SIGNAL BACKPLATE

① TRAFFIC SIGNAL POST FOUNDATIONS TO BE REMOVED BY CONTRACTOR. TRAFFIC SIGNAL POST SAFELY STORED AND RELOCATED.



TS SHT. NO. 09

TS 5155  
ECON 08

PREPARED BY:  

**CEMCON, Ltd.**  
 Consulting Engineers, Land Surveyors & Planners  
 2280 White Oak Circle, Suite 100  
 Aurora, Illinois 60504-9675  
 Ph: 630.862.2100 Fax: 630.862.2199  
 E-Mail: cadd@cemcon.com Website: www.cemcon.com

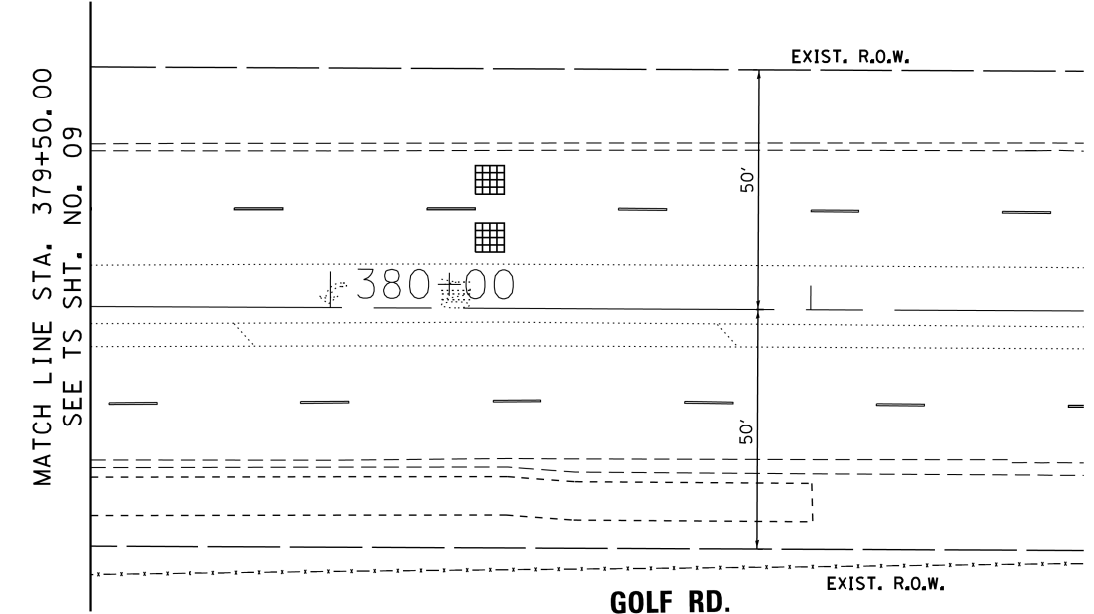
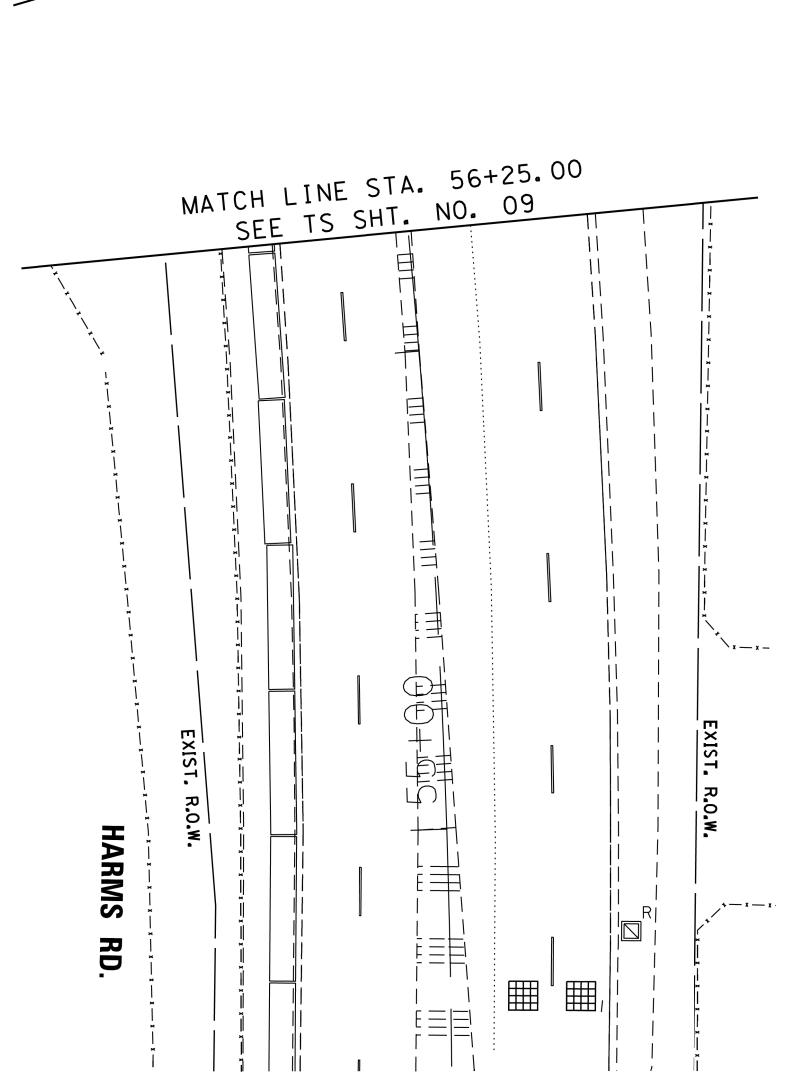
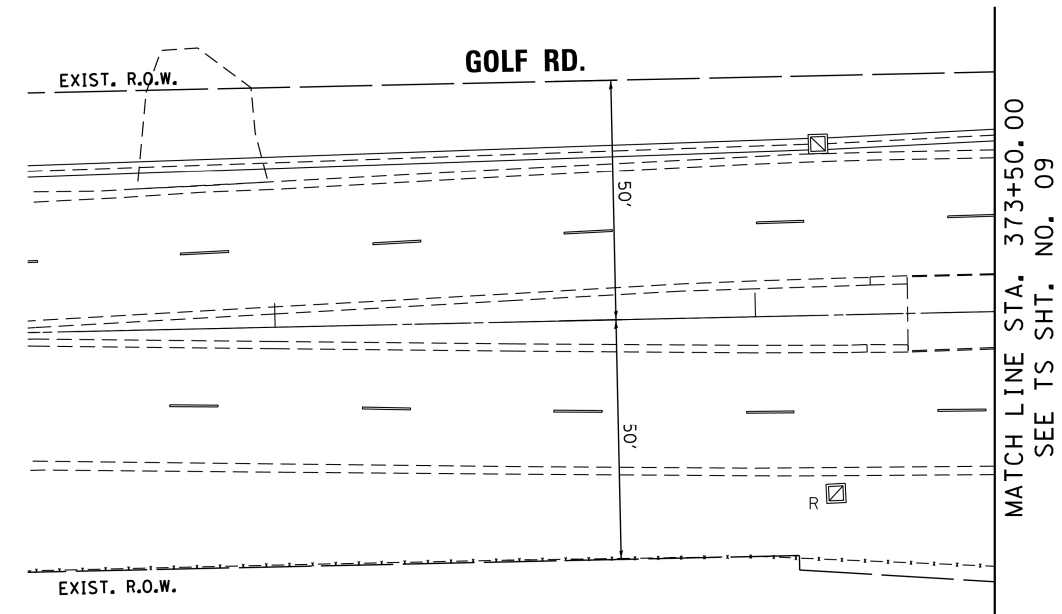
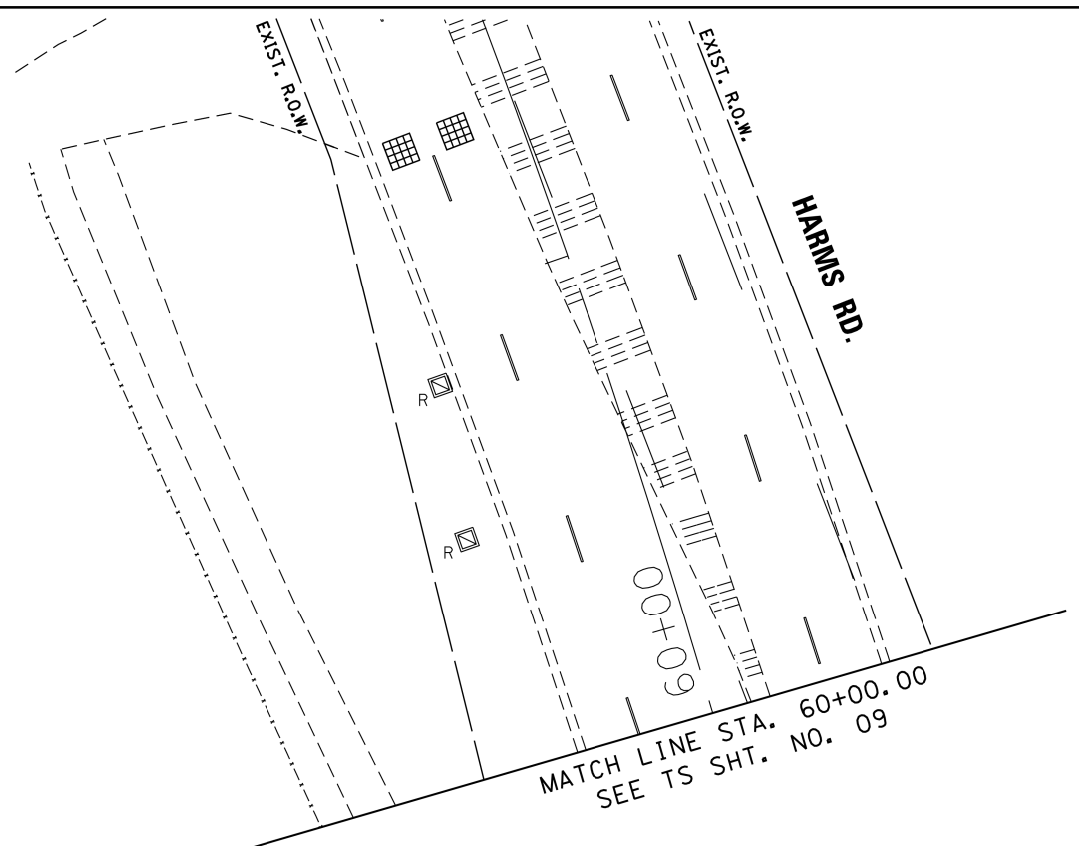
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DATE = 5/29/2018	DATE = 1-5-18	REVISED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (SHEET 1 OF 2) GOLF ROAD AT HARMS ROAD**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	44
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				



TS SHT. NO. 10

PREPARED BY:  
**CEMCON, Ltd.**  
 Consulting Engineers, Land Surveyors & Planners  
 2280 White Oak Circle, Suite 100  
 Aurora, Illinois 60504-9675  
 Ph: 630.862.2100 Fax: 630.862.2199  
 E-Mail: cadd@cemcon.com Website: www.cemcon.com

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

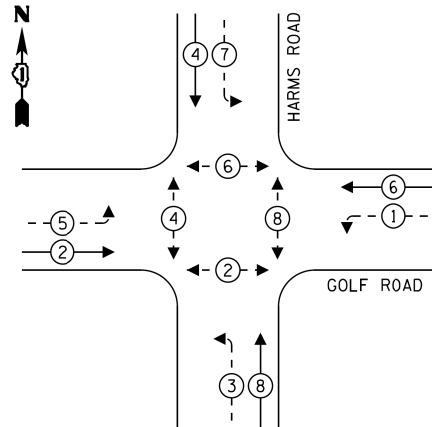
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND  
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (SHEET 2 OF 2)  
 GOLF ROAD AT HARMS ROAD**

SCALE: 1"=20'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	45
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

**TS 5155  
 ECON 08**

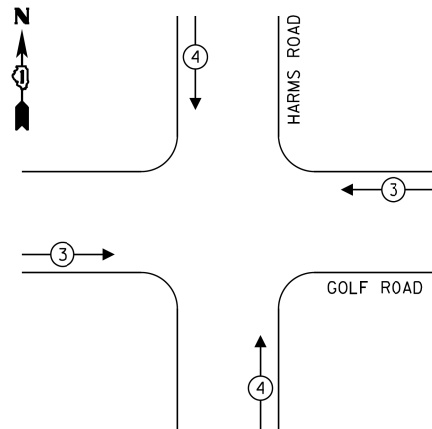
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

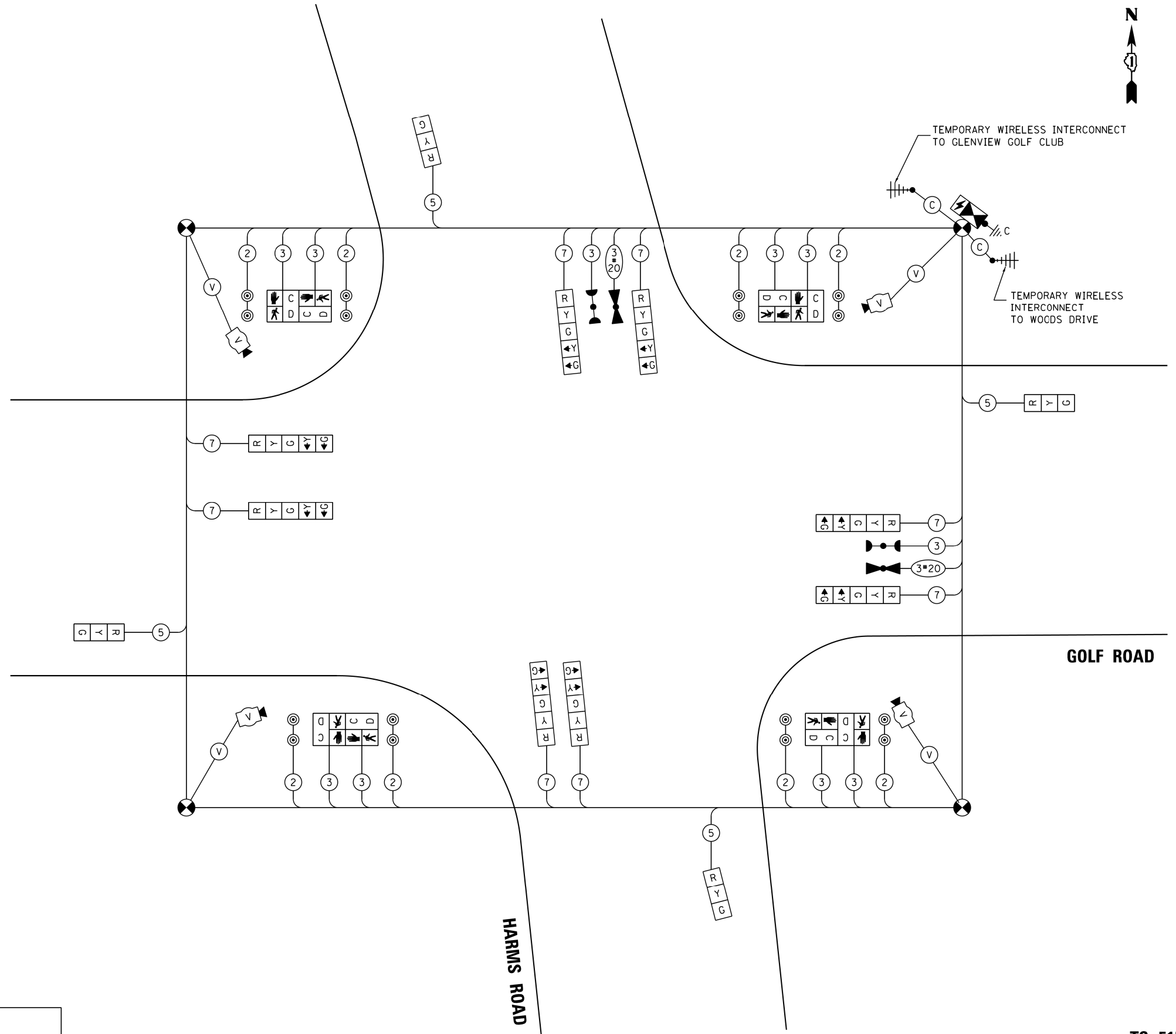
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				593.8

ENERGY COSTS TO:

VILLAGE OF MORTON GROVE  
6101 CAPULINA AVENUE  
MORTON GROVE, ILLINOIS 60053

ENERGY SUPPLY: CONTACT: TERRI BLOCK  
PHONE: (847) 816-5239  
COMPANY: COMED  
ACCOUNT NUMBER: ---

PREPARED BY:  
**CEMCON, Ltd.**  
*Consulting Engineers, Land Surveyors & Planners*  
2280 White Oak Circle, Suite 100  
Aurora, Illinois 60504-9675  
Ph: 630.862.2100 Fax: 630.862.2199  
E-Mail: cadd@cemcon.com Website: www.cemcon.com



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,  
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
GOLF ROAD AT HARMS ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	46
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

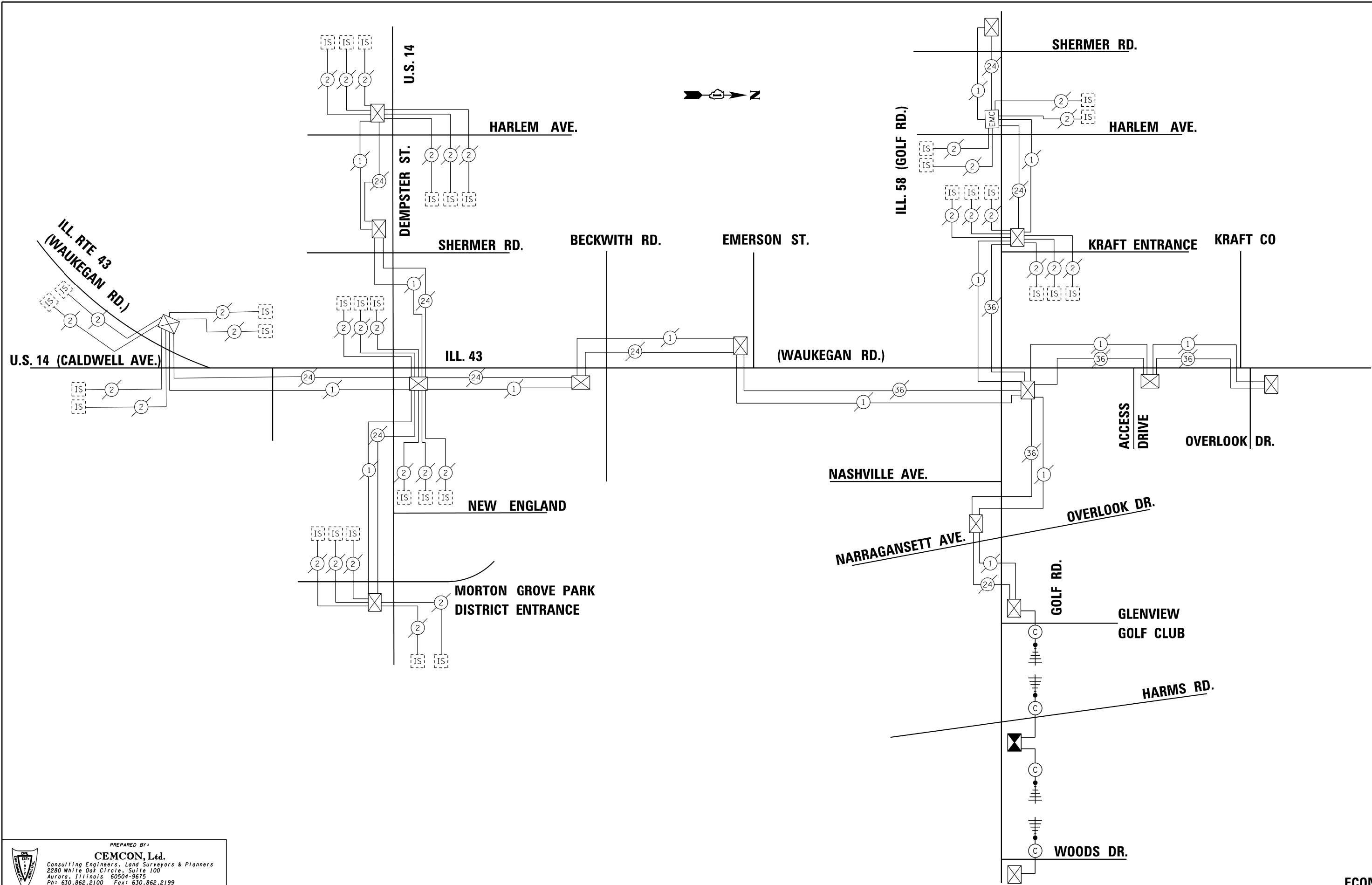
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

TS 5155  
ECON 08

TS SHT NO. 11

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	PLOT DATE = 4/20/2018	DATE - 1-5-18	REVISED -

TS SHT. NO. 12



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**CEMCON, Ltd.**  
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Default	PLOT SCALE = 50.0000' / in.	CHECKED - BPT	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC  
 GOLF ROAD AT HARMS ROAD**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1312	SECTION 584N(14)	COUNTY COOK	TOTAL SHEETS 73	SHEET NO. 47
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

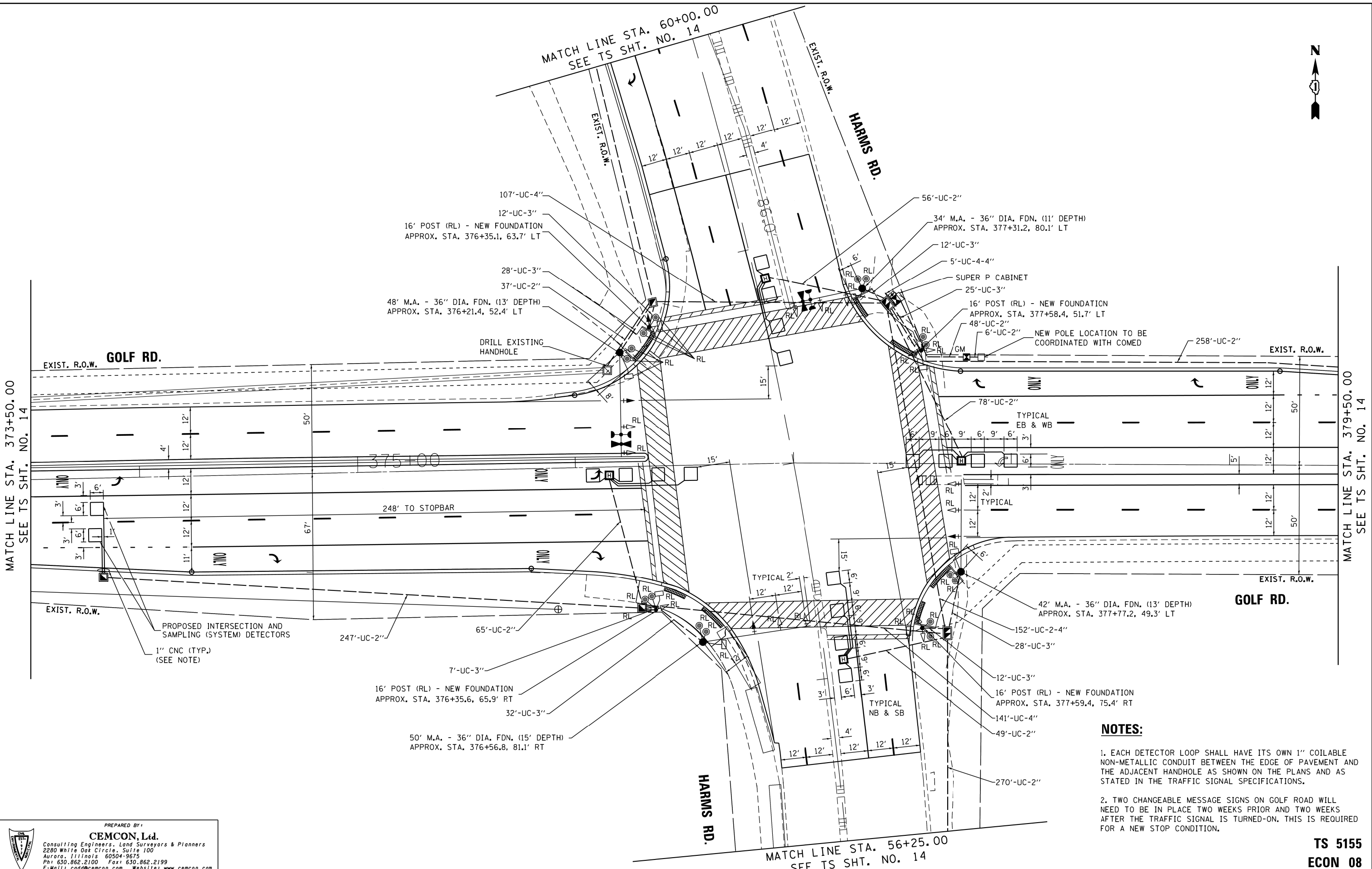
**ECON 08**



MATCH LINE STA. 60+00.00  
SEE TS SHT. NO. 14

MATCH LINE STA. 373+50.00  
SEE TS SHT. NO. 14

MATCH LINE STA. 379+50.00  
SEE TS SHT. NO. 14



**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. TWO CHANGEABLE MESSAGE SIGNS ON GOLF ROAD WILL NEED TO BE IN PLACE TWO WEEKS PRIOR AND TWO WEEKS AFTER THE TRAFFIC SIGNAL IS TURNED-ON. THIS IS REQUIRED FOR A NEW STOP CONDITION.

TS SHT. NO. 13

PREPARED BY:  

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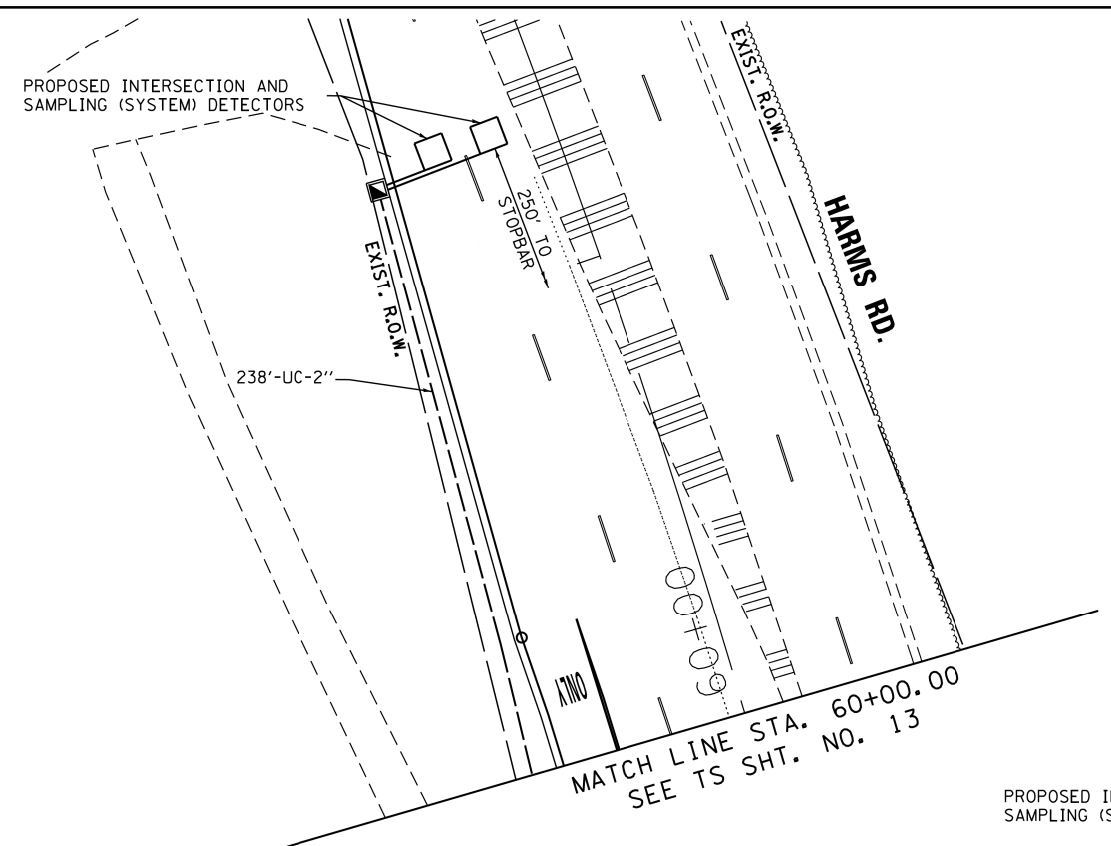
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

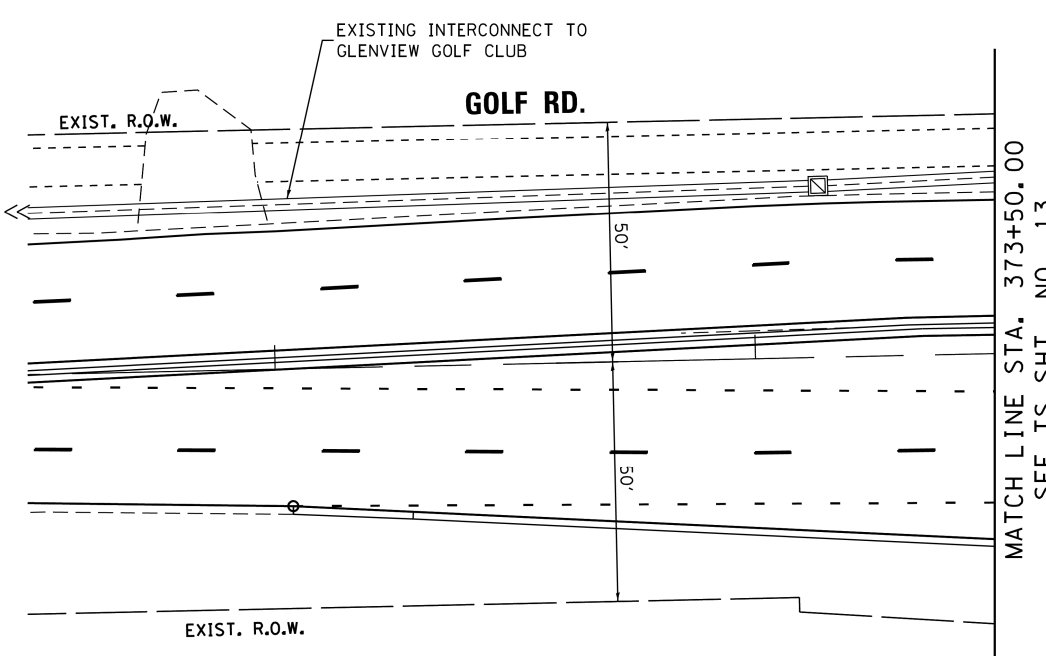
TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)			
GOLF ROAD AT HARMS ROAD			
SCALE: 1"=20'	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	48
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

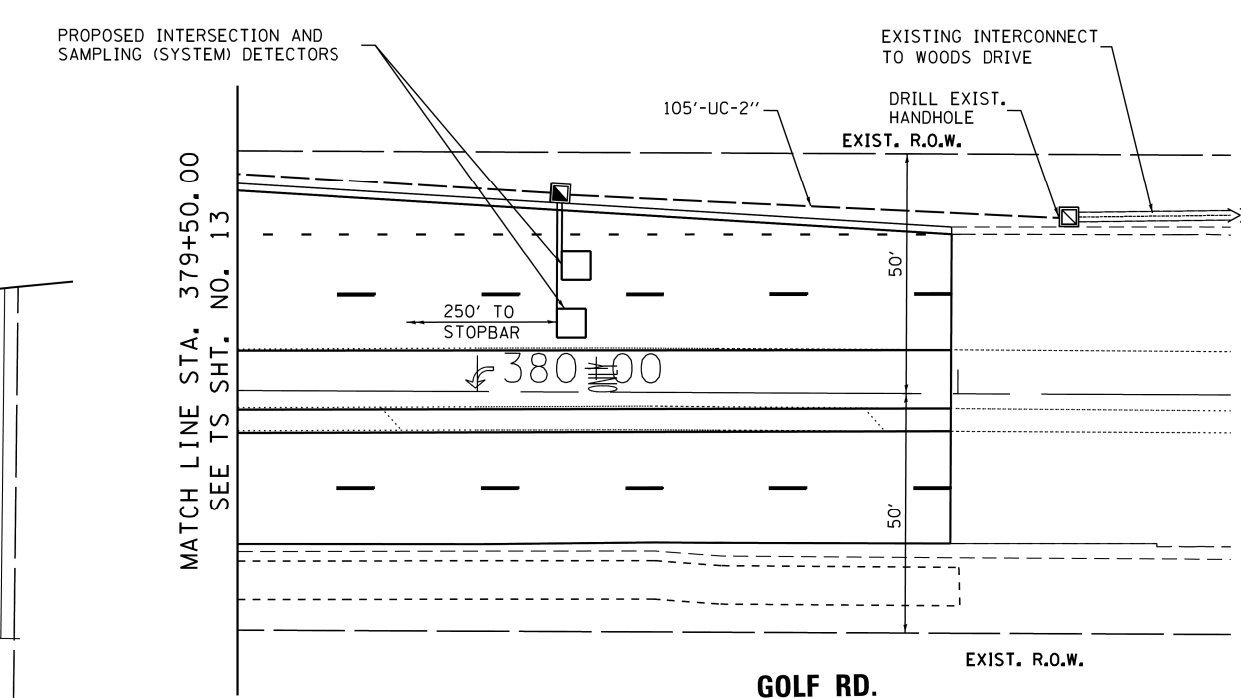
TS 5155  
ECON 08



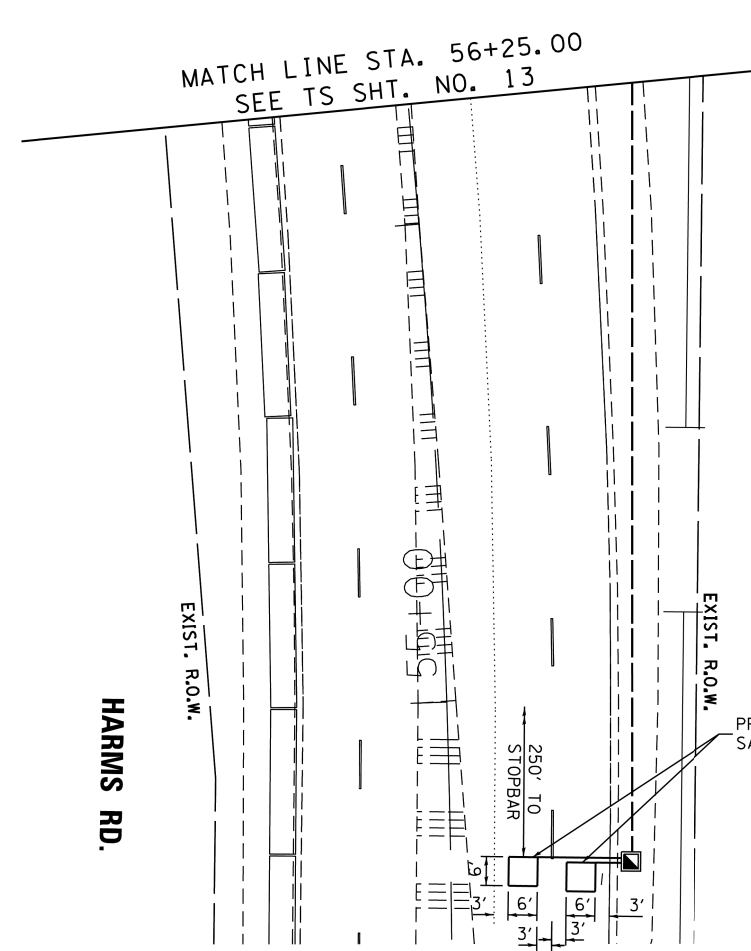
MATCH LINE STA. 60+00.00  
SEE TS SHT. NO. 13



MATCH LINE STA. 373+50.00  
SEE TS SHT. NO. 13




MATCH LINE STA. 379+50.00  
SEE TS SHT. NO. 13



MATCH LINE STA. 56+25.00  
SEE TS SHT. NO. 13

TS SHT. NO. 14

PREPARED BY:  

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 Consulting Engineers, Land Surveyors & Planners  
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TS 5155  
ECON 08

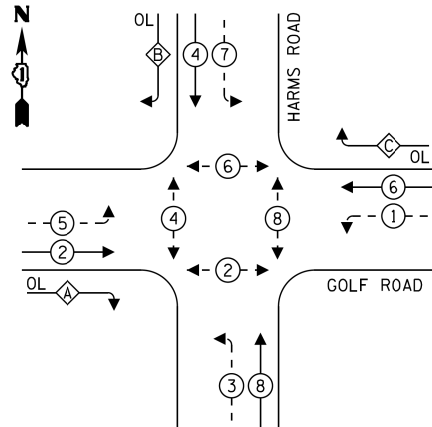
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)  
GOLF ROAD AT HARMS ROAD  
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	49
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

**PROPOSED CONTROLLER SEQUENCE**



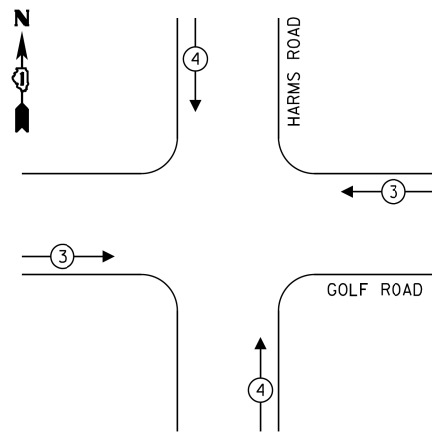
**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	28	10	10	28.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				551.0

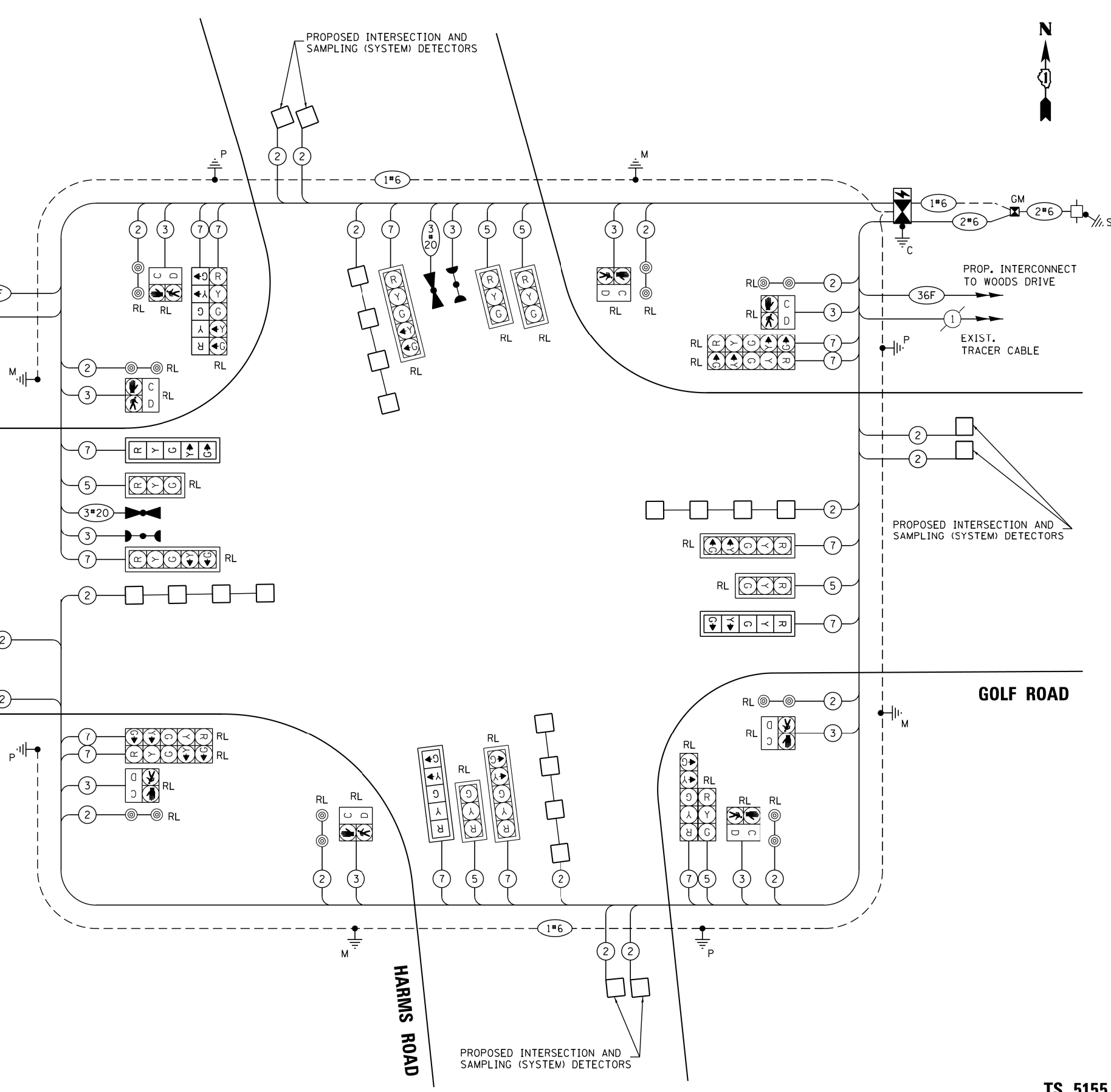
ENERGY COSTS TO:

VILLAGE OF MORTON GROVE  
6101 CAPULINA AVENUE  
MORTON GROVE, ILLINOIS 60053

ENERGY SUPPLY: CONTACT: TERRI BLOCK  
PHONE: (847) 816-5239  
COMPANY: COMED  
ACCOUNT NUMBER: ---

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DESIGNED - ARF	REVISED -
DRAWN - RDS	REVISED -
CHECKED - BPT	REVISED -
DATE - 1-5-18	REVISED -



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE GOLF ROAD AT HARMS ROAD**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	50
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

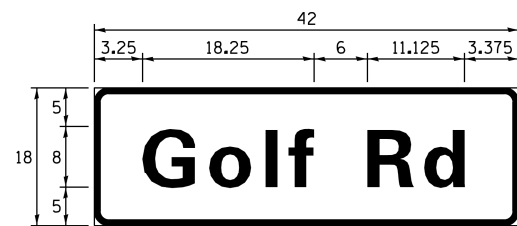
TS SHT NO. 15

TS 5155  
ECON 08

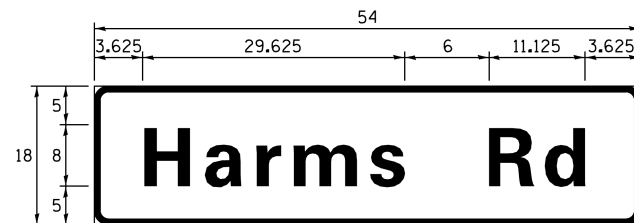


**SIGN PANEL – TYPE 1 OR TYPE 2**

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.5	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ. FT	48.0
SERVICE INSTALLATION - GROUND MOUNTED METERED SERVICE	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1315
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	156
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	420
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRANSCIEVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1592
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1957
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1286
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3334
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2563
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	77
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO.6 1C	FOOT	625
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	923
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	16
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	16
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	22
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	319
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1

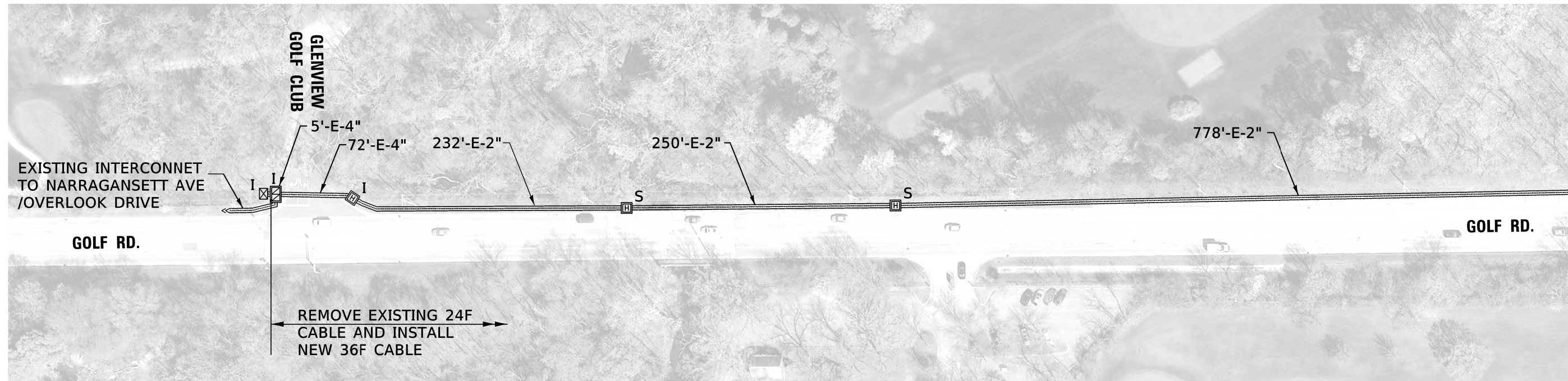
\* 100% COST TO THE VILLAGE OF MORTON GROVE

TS SHT NO. 16

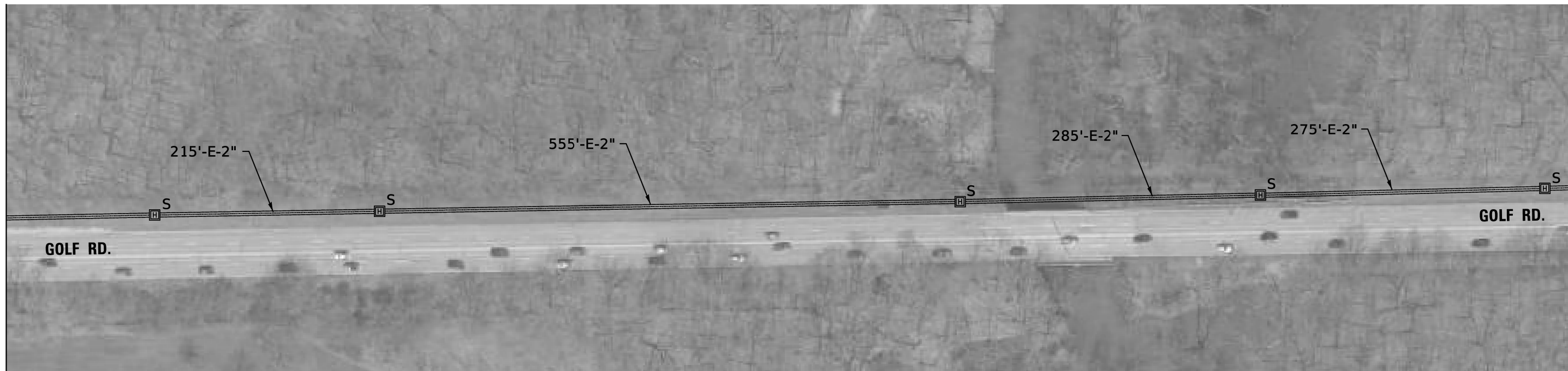
TS 5155  
ECON 08

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Default	PLOT SCALE = 20.0000' / in.	CHECKED - BPT	REVISED -			1312	584N(14)	COOK	73	51	
	PLOT DATE = 5/24/2018	DATE - 1-5-18	REVISED -			CONTRACT NO. 60Y74					
						ILLINOIS FED. AID PROJECT					

MATCH LINE SEE BELOW



MATCH LINE SEE TS SHT NO. 18



MATCH LINE SEE ABOVE

TS SHT. NO. 17

PREPARED BY:  
**CEMCON, Ltd.**  
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 E-Mail: cadd@cemcon.com Website: www.cemcon.com

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		DATE - 1-5-18	REVISED -

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

**PROPOSED INTERCONNECT PLAN (SHEET 1 OF 2)**  
**GLENVIEW GOLF CLUB TO WOODS DRIVE**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	52
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

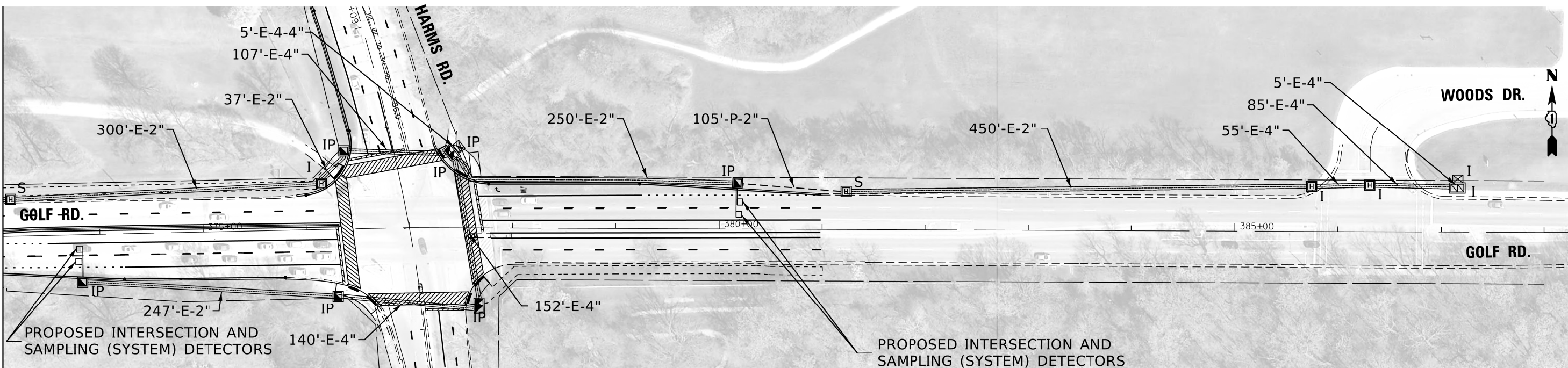
**ECON 08**

MATCH LINE SEE TS SHT NO. 17



MATCH LINE SEE BELOW

MATCH LINE SEE ABOVE



TS SHT. NO. 18

PREPARED BY:  
**CEMCON, Ltd.**  
 Consulting Engineers, Land Surveyors & Planners  
 2280 White Oak Circle, Suite 100  
 Aurora, Illinois 60504-9675  
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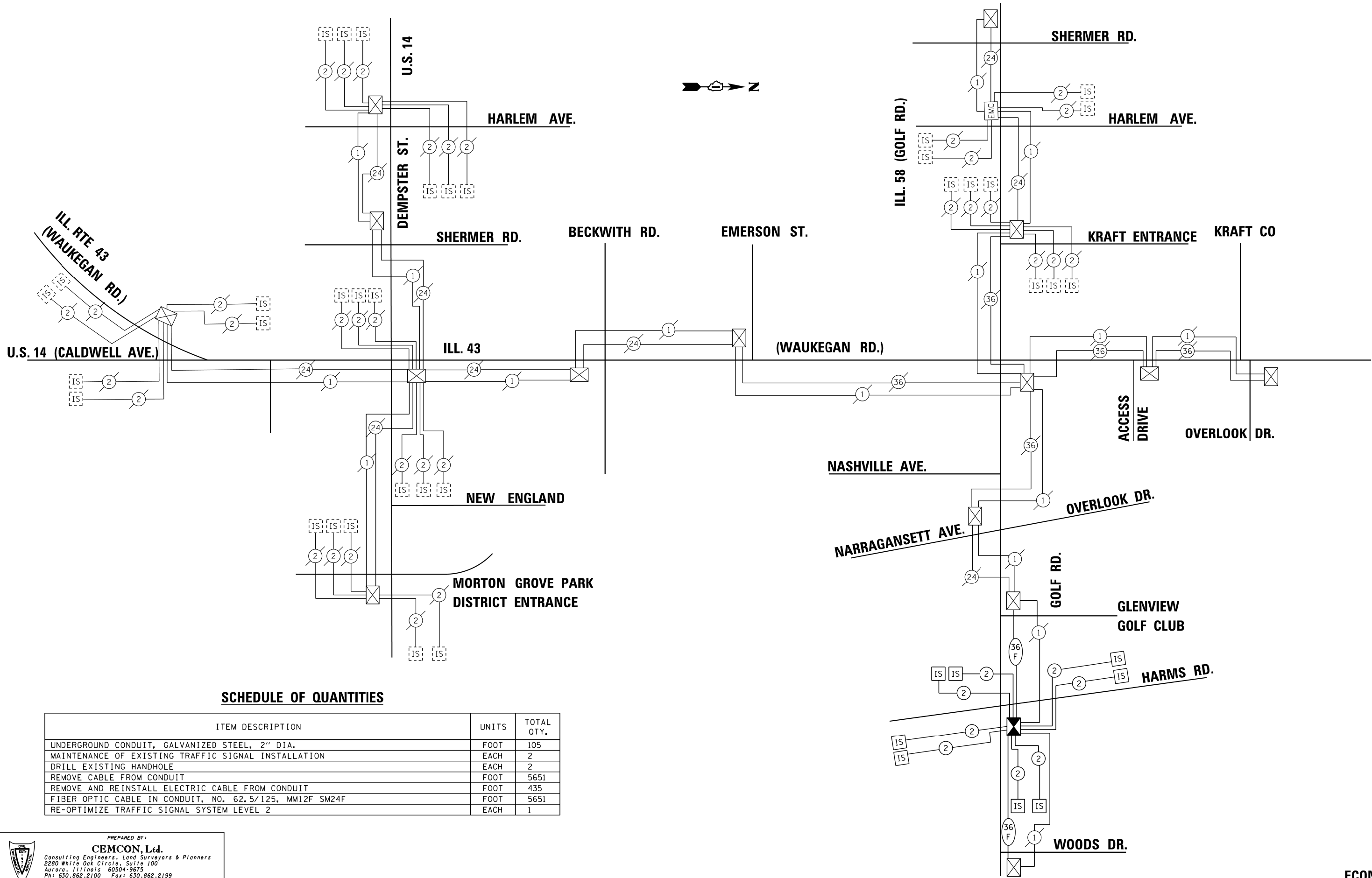
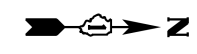
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN (SHEET 2 OF 2)**  
**GLENVIEW GOLF CLUB TO WOODS DRIVE**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	53
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

**ECON 08**



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	105
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
DRILL EXISTING HANDHOLE	EACH	2
REMOVE CABLE FROM CONDUIT	FOOT	5651
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	435
FIBER OPTIC CABLE IN CONDUIT, NO. 62, 5/125, MM12F SM24F	FOOT	5651
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

TS SHT. NO. 19

PREPARED BY:  
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 E-Mail: cadd@cemcon.com Website: www.cemcon.com

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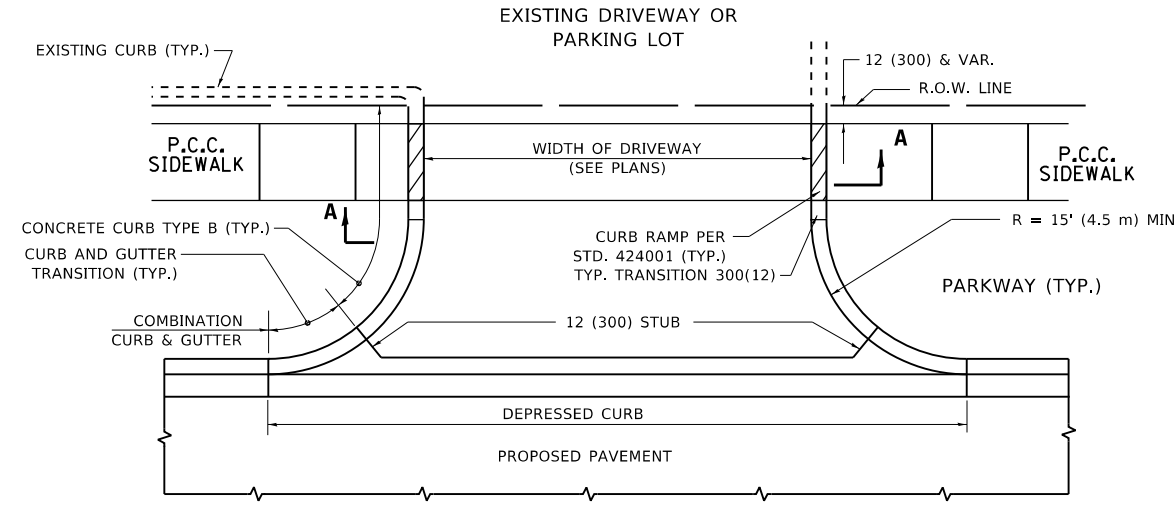
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES  
 GOLF ROAD AT HARMS ROAD**

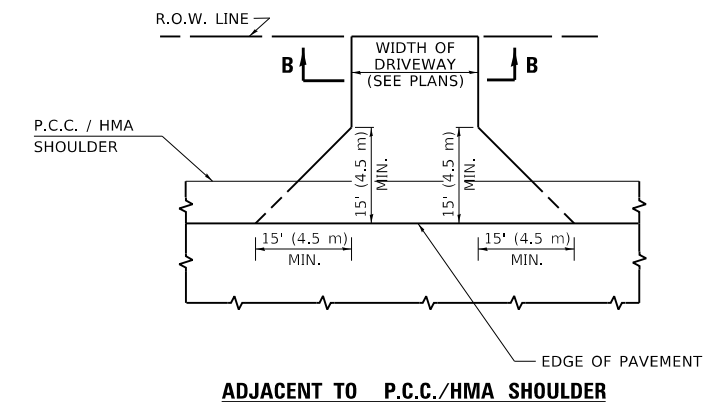
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1312	SECTION 584N(14)	COUNTY COOK	TOTAL SHEETS 73	SHEET NO. 54
CONTRACT NO. 60Y74				
ILLINOIS FED. AID PROJECT				

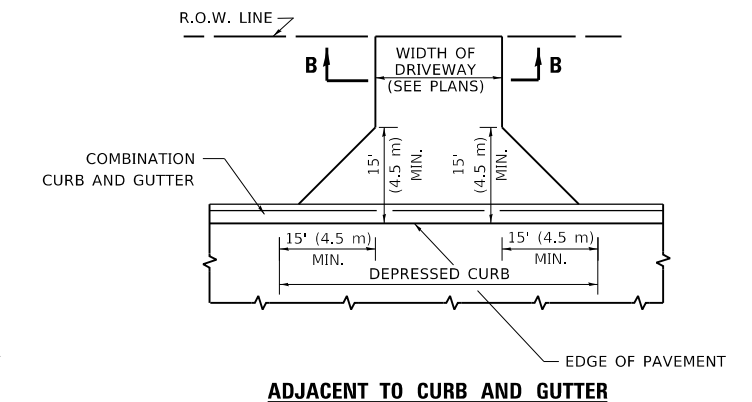
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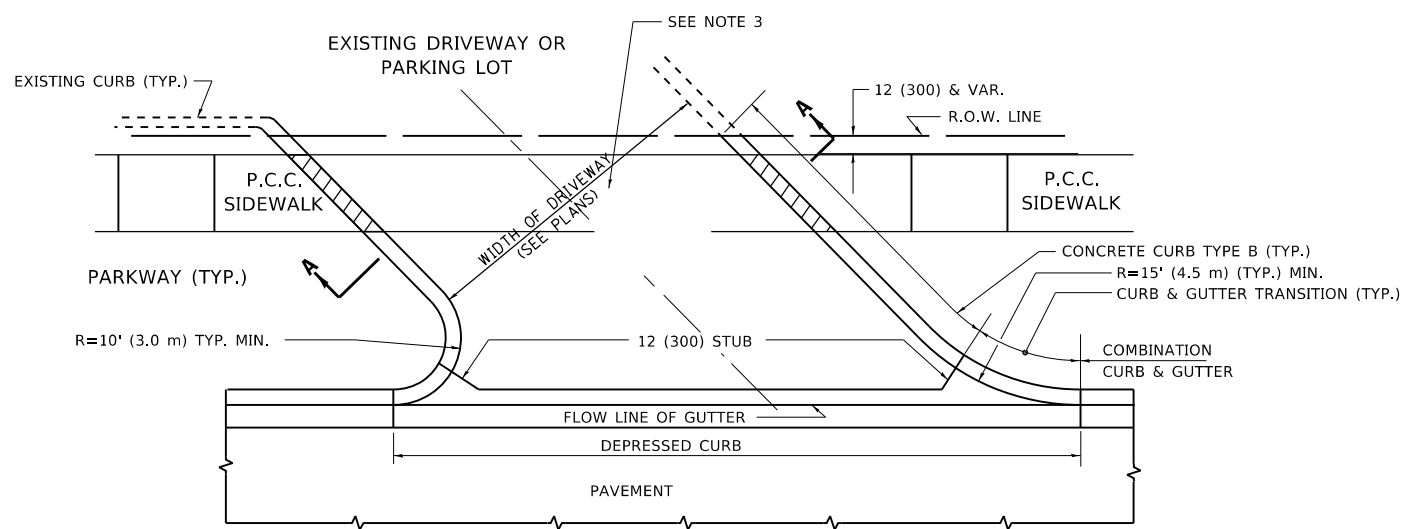
**WITH CONCRETE CURB, TYPE B**



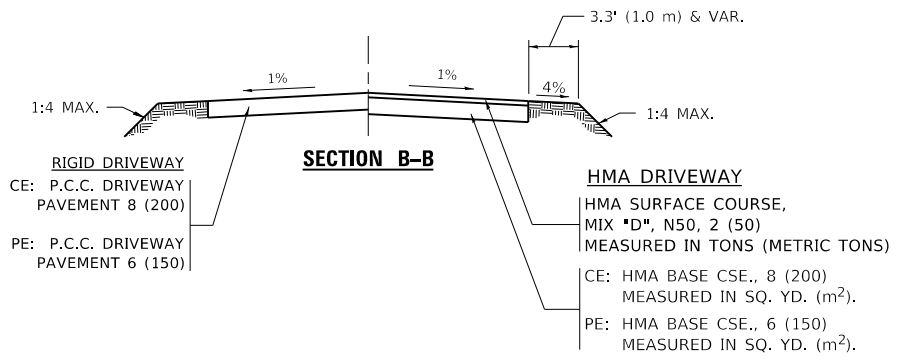
**ADJACENT TO P.C.C./HMA SHOULDER**



**ADJACENT TO CURB AND GUTTER**



**WITH CONCRETE CURB, TYPE B**



**SECTION B-B**

**GENERAL NOTES:**

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

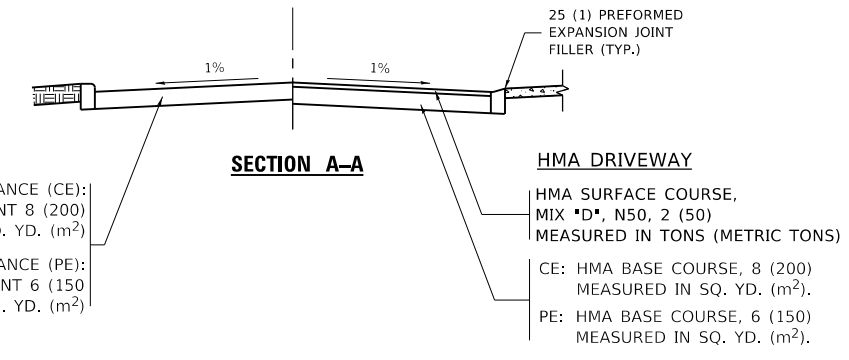
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

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

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

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



**SECTION A-A**

**RIGID DRIVEWAY**

COMMERCIAL ENTRANCE (CE):  
P.C.C. DRIVEWAY PAVEMENT 8 (200)  
MEASURED IN SQ. YD. (m<sup>2</sup>)  
  
NON-COMMERCIAL ENTRANCE (PE):  
P.C.C. DRIVEWAY PAVEMENT 6 (150)  
MEASURED IN SQ. YD. (m<sup>2</sup>)

**HMA DRIVEWAY**

HMA SURFACE COURSE,  
MIX "D", N50, 2 (50)  
MEASURED IN TONS (METRIC TONS)  
  
CE: HMA BASE COURSE, 8 (200)  
MEASURED IN SQ. YD. (m<sup>2</sup>).  
  
PE: HMA BASE COURSE, 6 (150)  
MEASURED IN SQ. YD. (m<sup>2</sup>).

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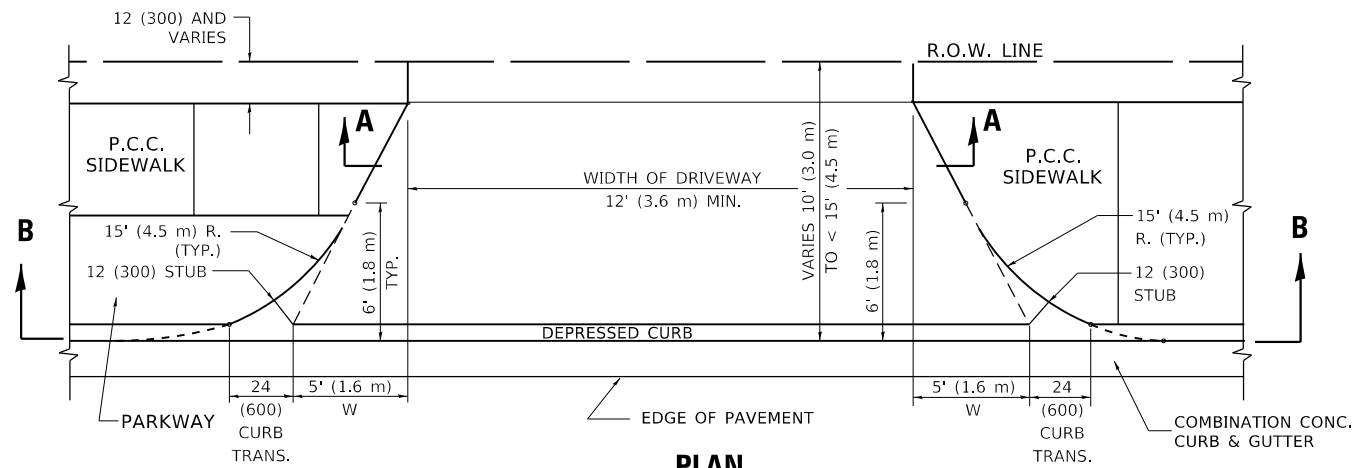
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PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 10/18/2019	DATE - 11-04-95	REVISED - R. BORO 06-11-08
		REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

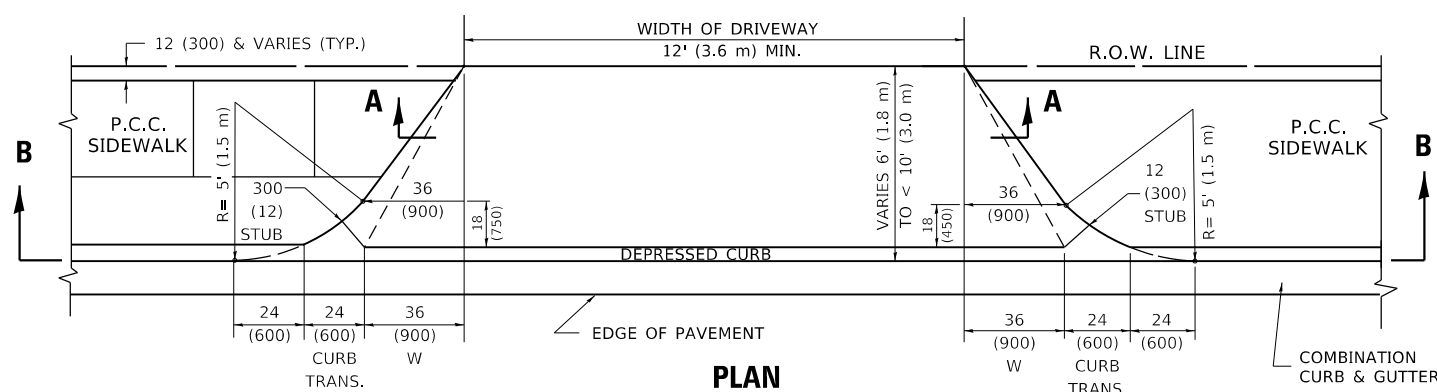
<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER ≥ 15'(4.5m)</b>			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-01 (BD-01)			CONTRACT NO. 60Y74	
ILLINOIS FED. AID PROJECT				

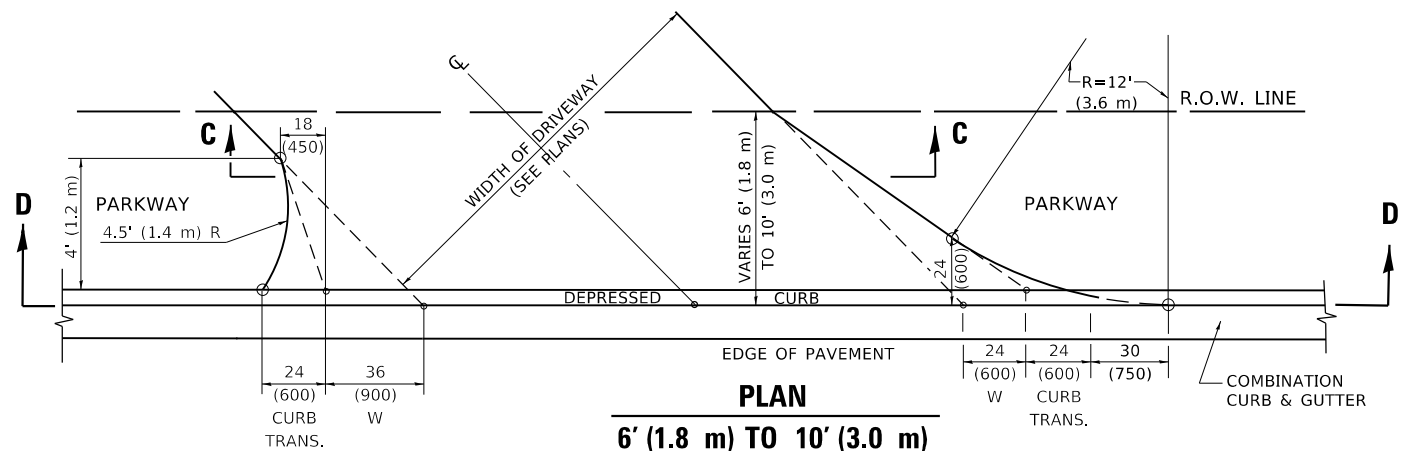




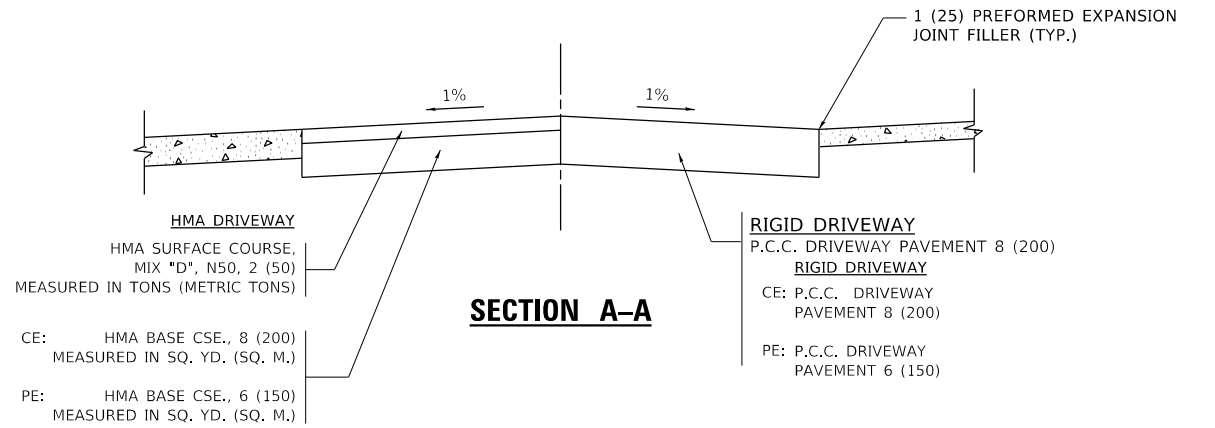
**PLAN**  
10' (3.0 m) TO < 15' (4.5 m)



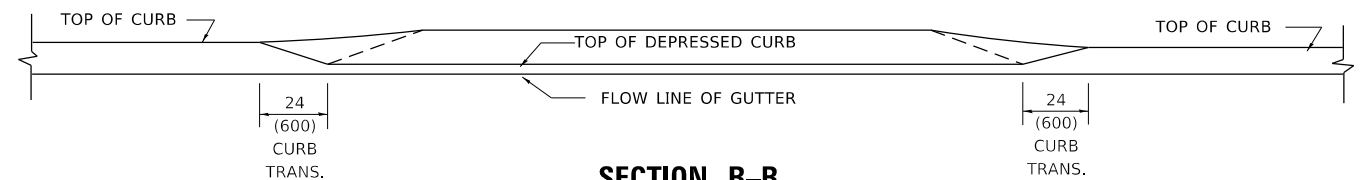
**PLAN**  
6' (1.8 m) TO < 10' (3.0 m)



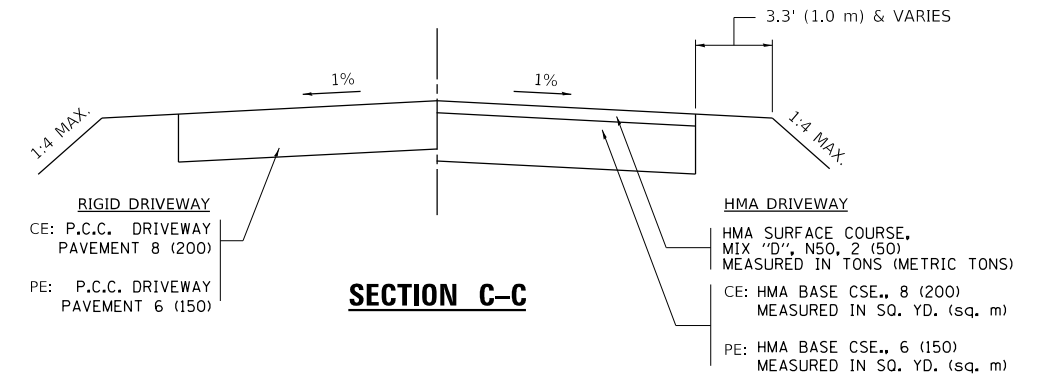
**PLAN**  
6' (1.8 m) TO 10' (3.0 m)



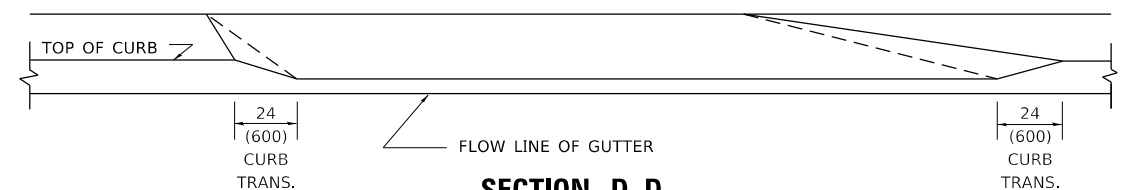
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**GENERAL NOTES**

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

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

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

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

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

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

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

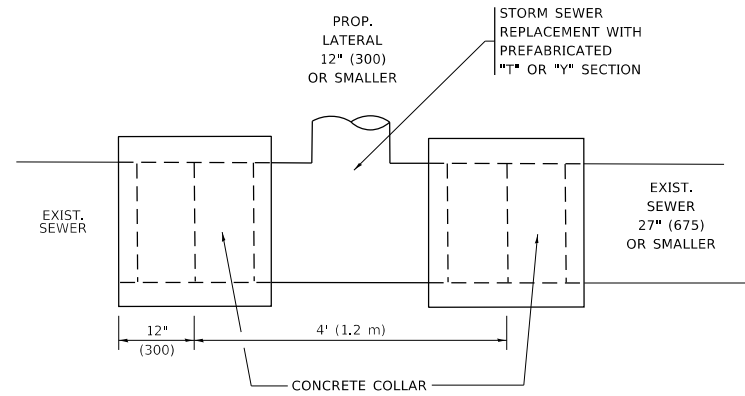
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

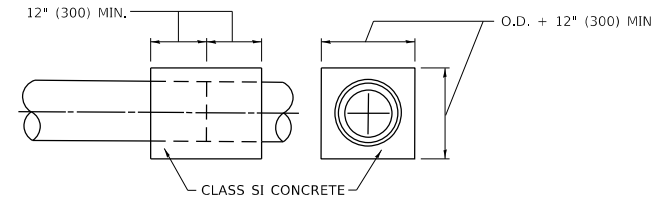
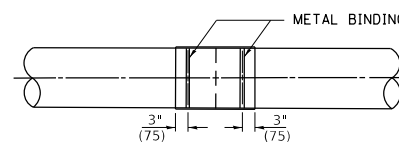
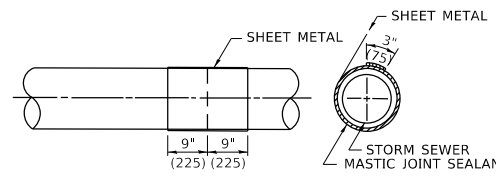
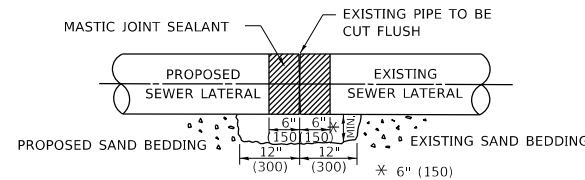
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	56
BD400-02 (BD-02)			CONTRACT NO. 60Y74	
ILLINOIS FED. AID PROJECT				

USER NAME = ledezmann	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100.0002' / in.	DRAWN -	REVISED - P. LofLUER 04-15-03
PLOT DATE = 10/18/2019	CHECKED -	REVISED - R. BORO 01-01-07
	DATE - 11-06-95	REVISED - R. BORO 09-06-11



**DETAIL "A"**

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



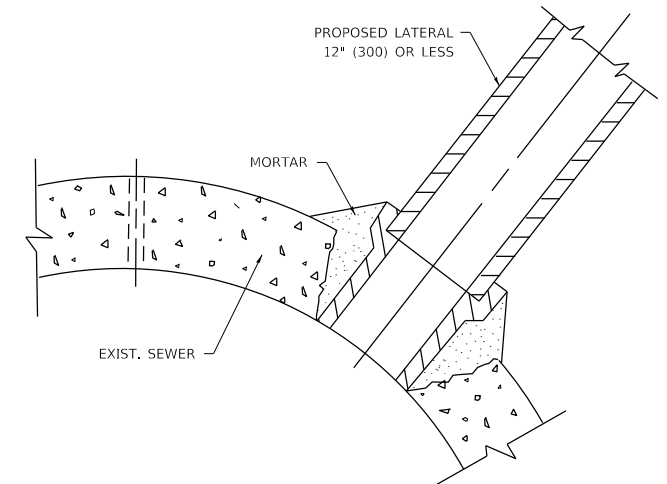
**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

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



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES:**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

1. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
2. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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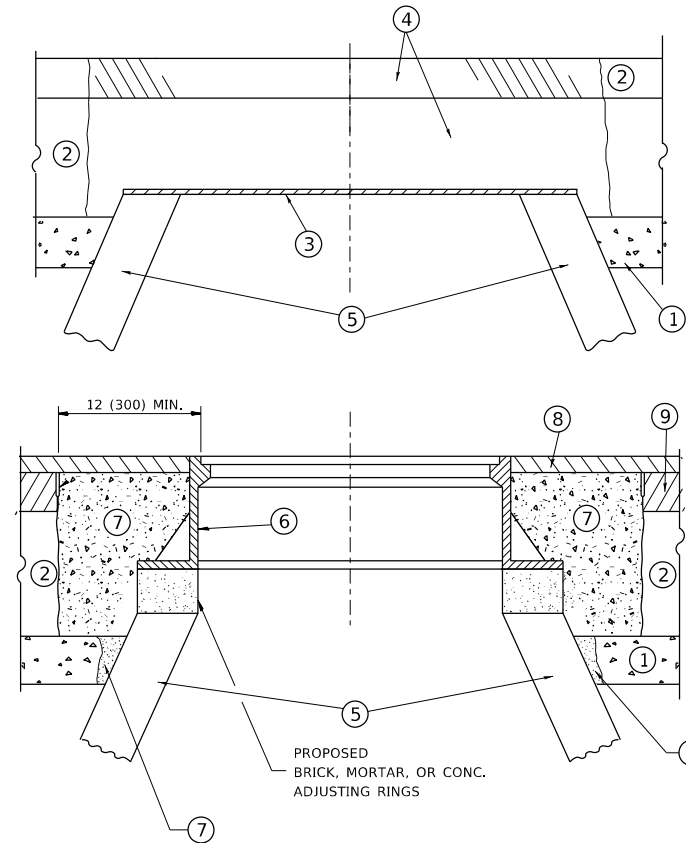
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	DRAWN -	REVISED - R. SHAH 09-09-94
PLOT SCALE = 100,0002 ' / in.	CHECKED -	REVISED - R. SHAH 10-25-94
PLOT DATE = 10/18/2019	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER  
CONNECTION TO EXISTING SEWER

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	57
BD500-01 (BD-7)			CONTRACT NO. 60Y74	
ILLINOIS FED. AID PROJECT				



**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.

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

**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.

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

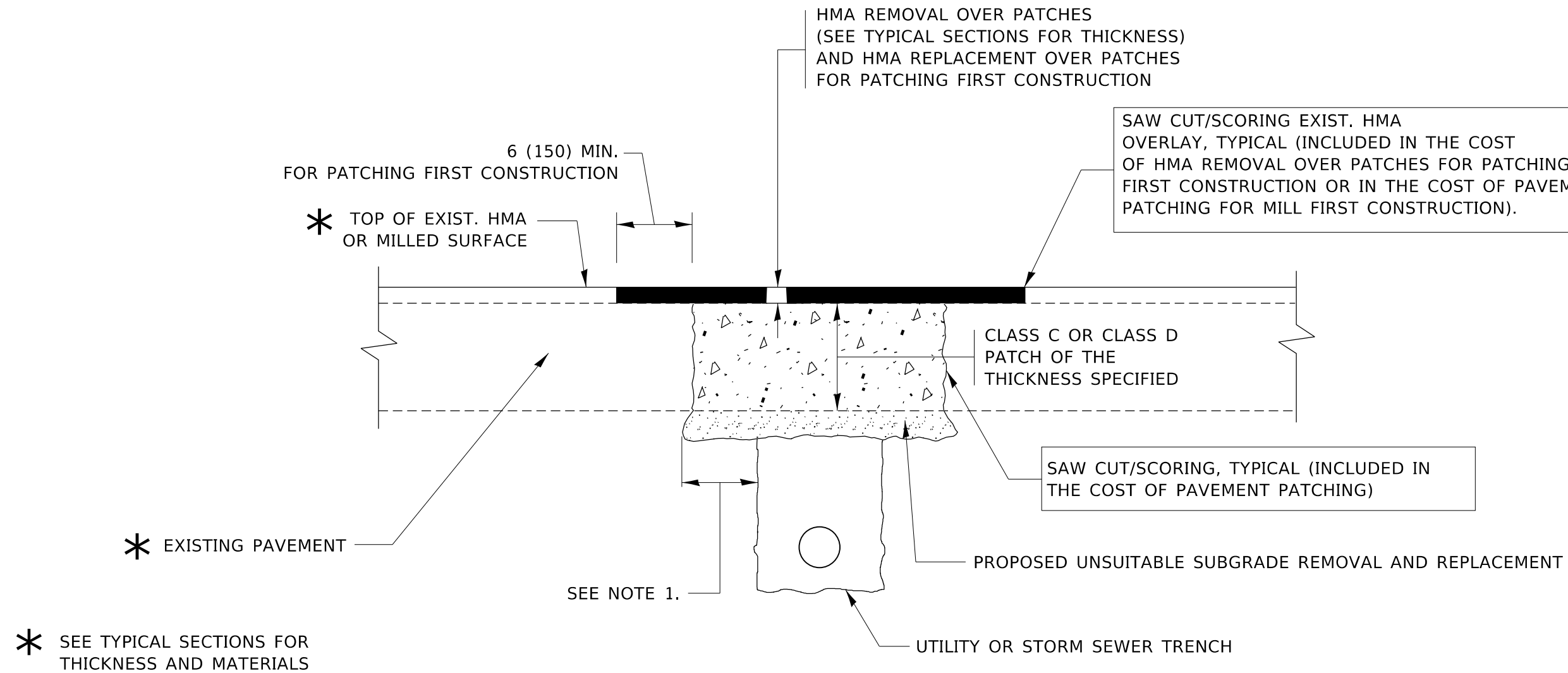
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	58
<b>BD600-03 (BD-8)</b>		CONTRACT NO. 60Y74		
ILLINOIS FED. AID PROJECT				

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USER NAME = ledezmar	DESIGNED - R. SHAH	REVISED - R. WEDEMAN 05-14-04
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - R. BORO 03-09-11
PLOT DATE = 10/18/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11





**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 4½ 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.

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USER NAME = ledezmar	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 10/18/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	59
BD400-04 (BD-22)			CONTRACT NO. 60Y74	
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

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

¼" (5) \*\*

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

3" (75) MIN.

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

PROPOSED ¾" (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.

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

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

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

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

**NOTE:**

- SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.  
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED.
- CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- 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.
- 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.
- 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.
- 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.

**BASIS OF PAYMENT**

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

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

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

MODEL: Default  
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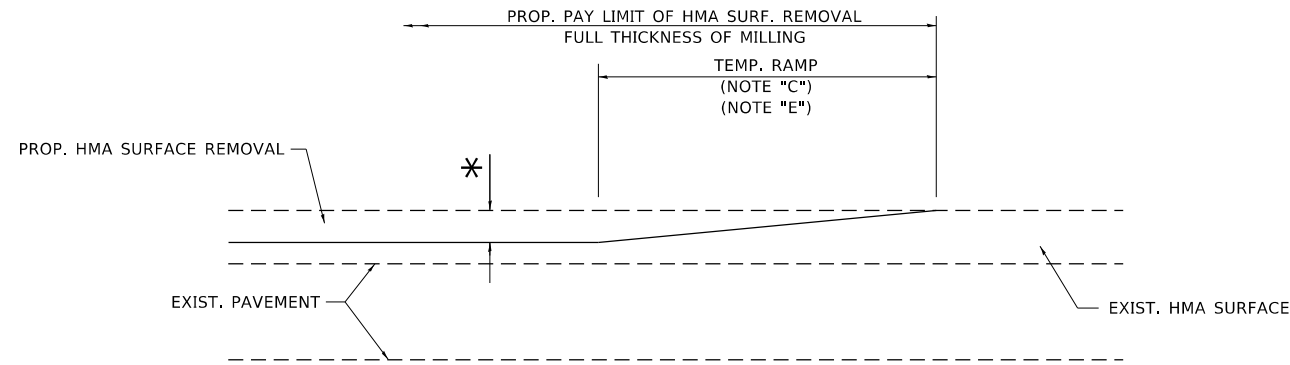
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	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 100,0002' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01
PLOT DATE = 10/18/2019	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

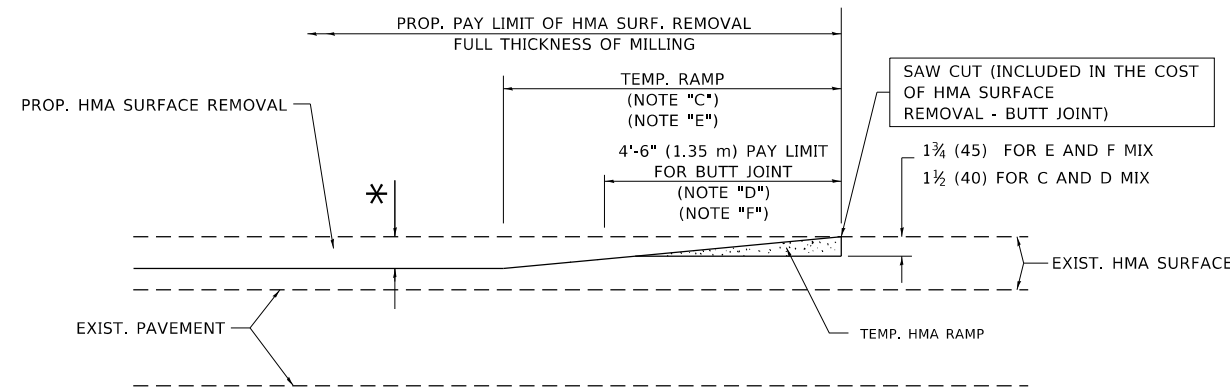
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	60
BD600-06 (BD-24)		CONTRACT NO. 60Y74		
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

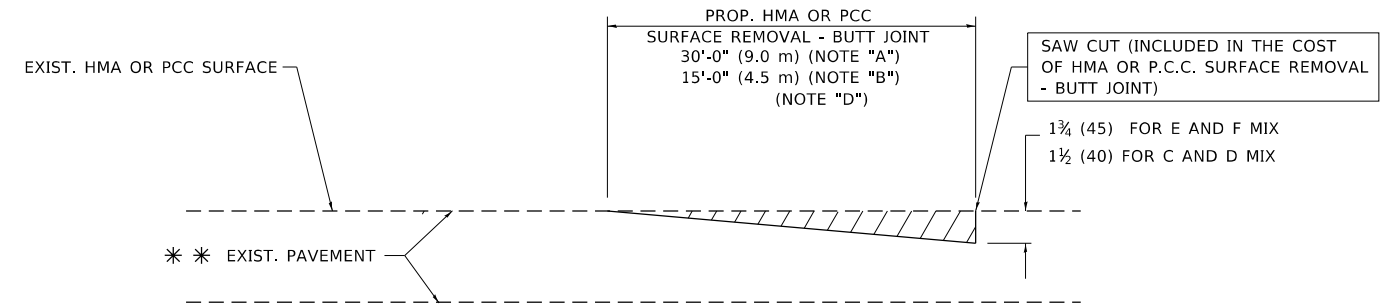


**HMA CONSTRUCTED TEMPORARY RAMP**

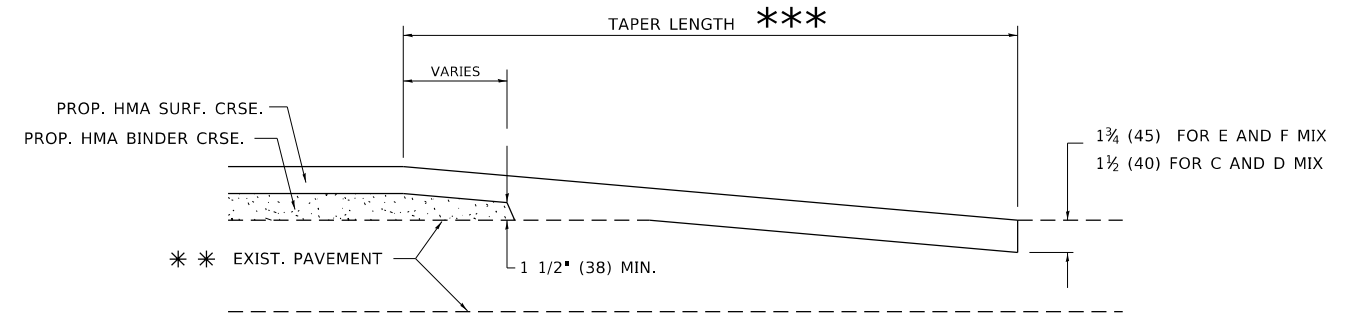
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

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

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

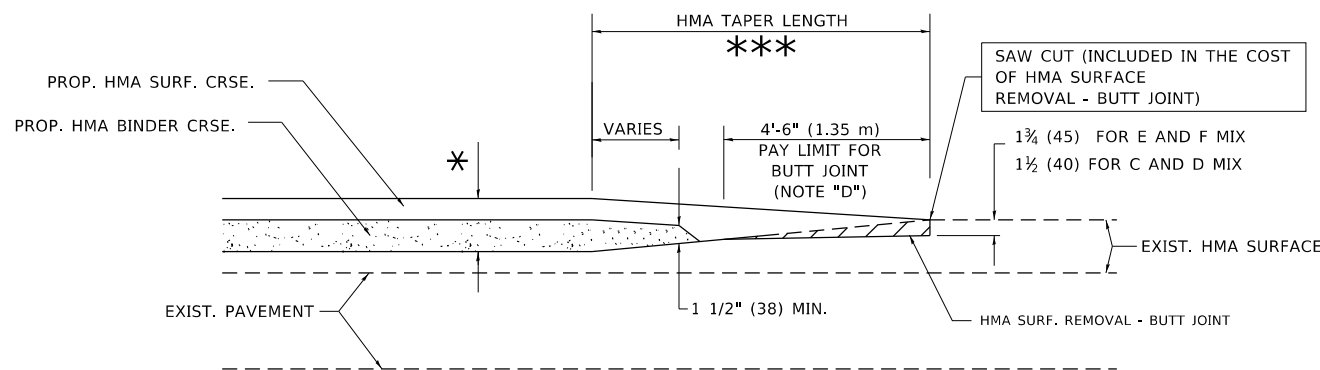
**NOTES**

- 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.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 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.



**BUTT JOINT AND HMA TAPER**

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

MODEL: Default  
FILE: \\hpc\p\pub\hpc\room\edat\illinois.gov\p\WIDOT\Documents\DOT\_Offices\Bldgctc\_1\Project\PIP 170909\CAD\Drawings\Drawings\Bldgctc.dgn

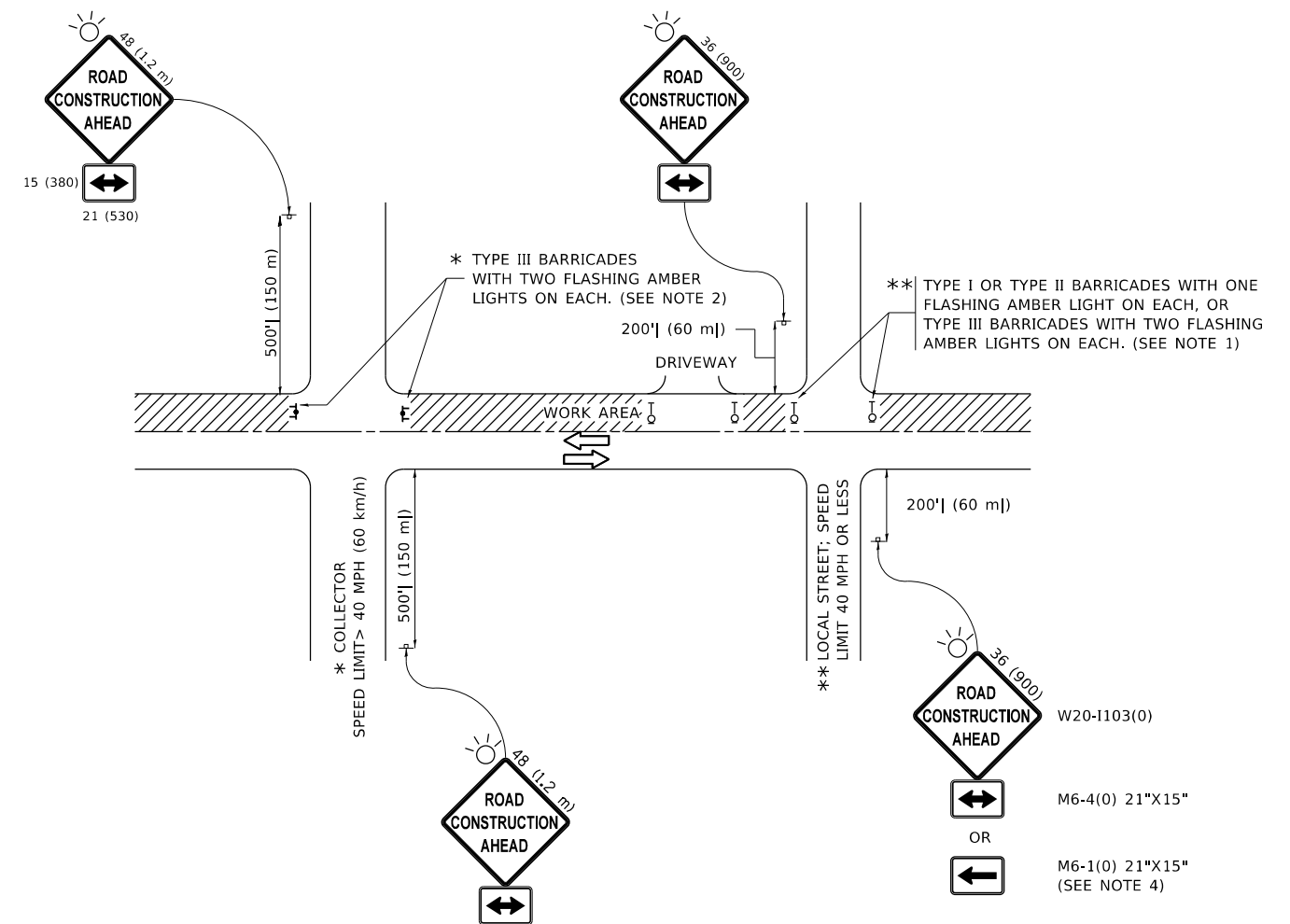
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	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 10/18/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND  
HMA TAPER DETAILS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	61
BD400-05 BD32		CONTRACT NO. 60Y74		
ILLINOIS FED. AID PROJECT				



**NOTES:**

- 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 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.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

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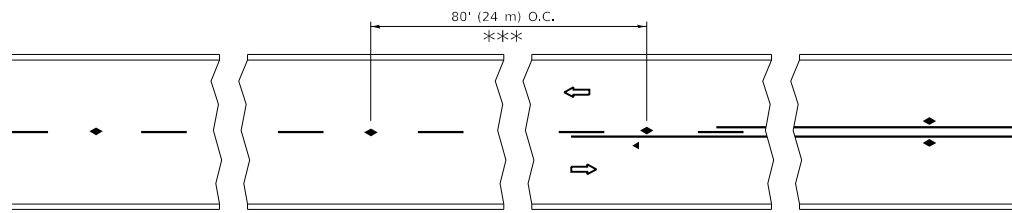
USER NAME = ledezmar	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 10/18/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

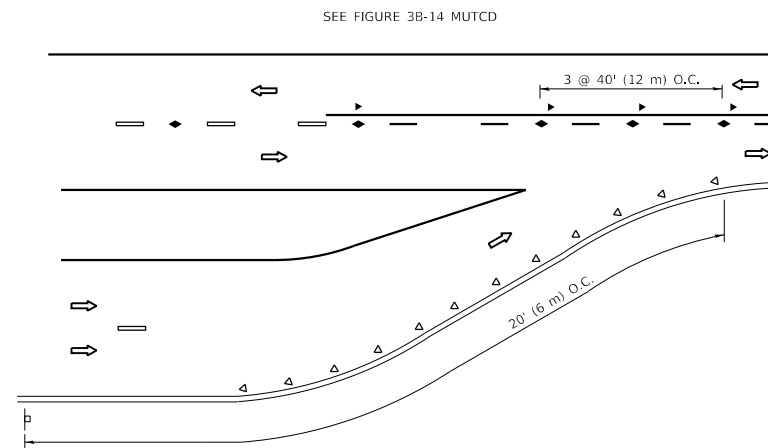
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	62
<b>TC-10</b>			<b>CONTRACT NO. 60Y74</b>	
ILLINOIS FED. AID PROJECT				

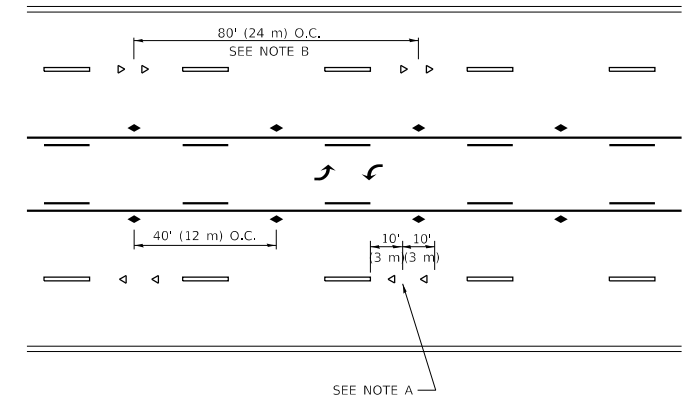


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

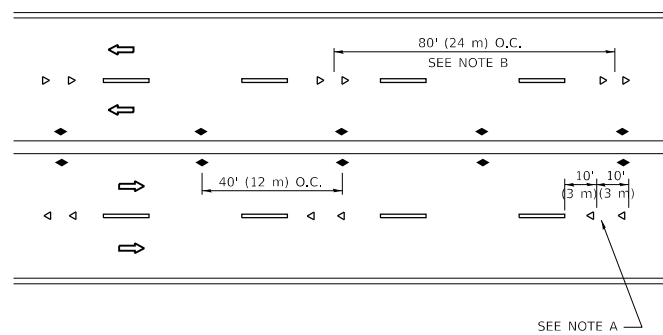
### TWO-LANE/TWO-WAY



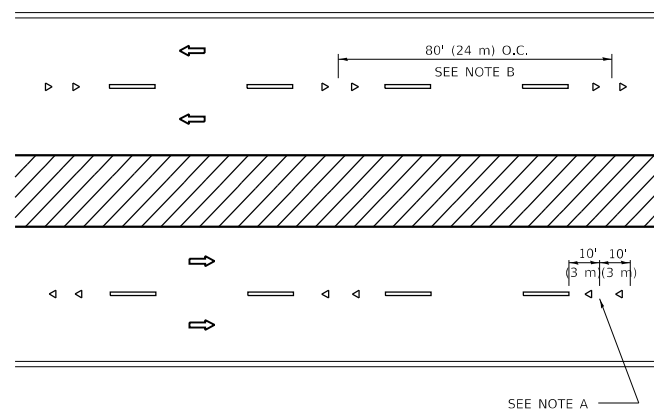
### LANE REDUCTION TRANSITION



### 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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

### SYMBOLS

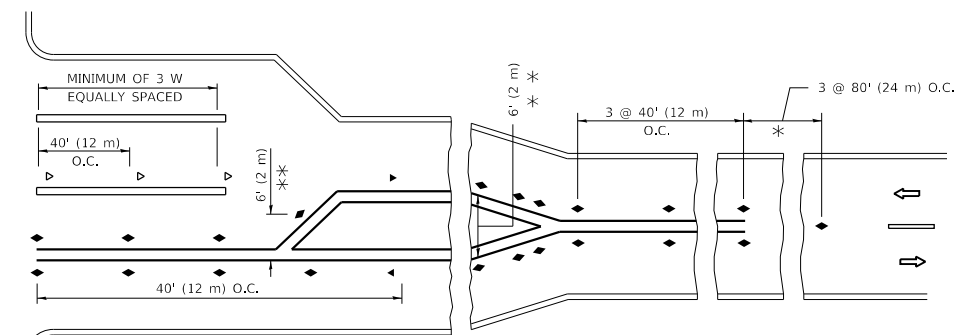
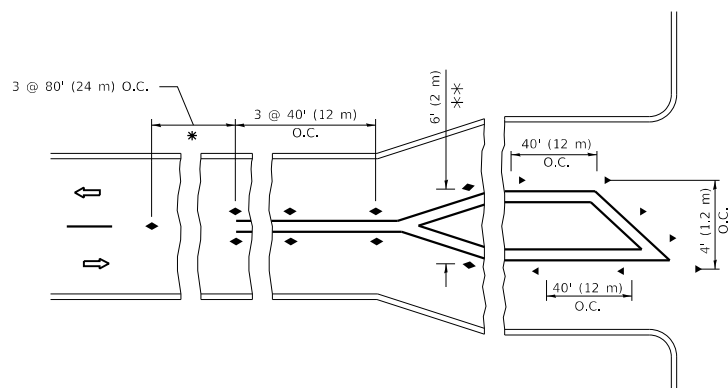
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

### 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.



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

### TURN LANES

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

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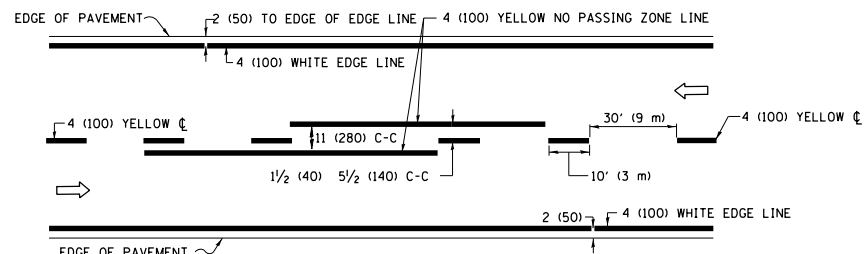
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PLOT DATE = 10/18/2019	CHECKED -	REVISED - C. JUCIUS 09-09-09
	DATE -	REVISED - C. JUCIUS 07-01-13

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

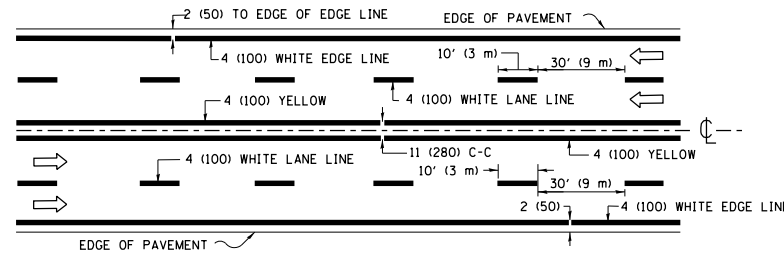
TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

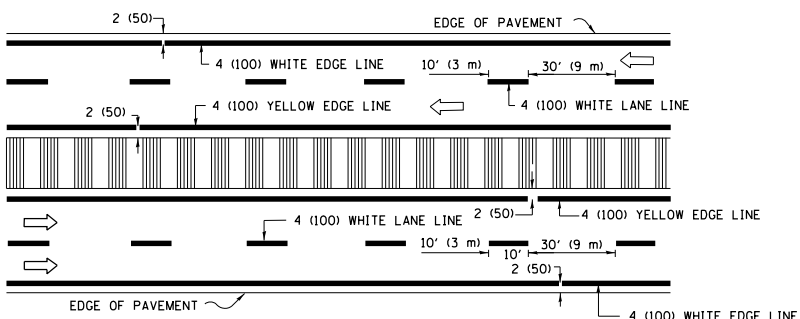
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	63
TC-11			CONTRACT NO. 60Y74	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

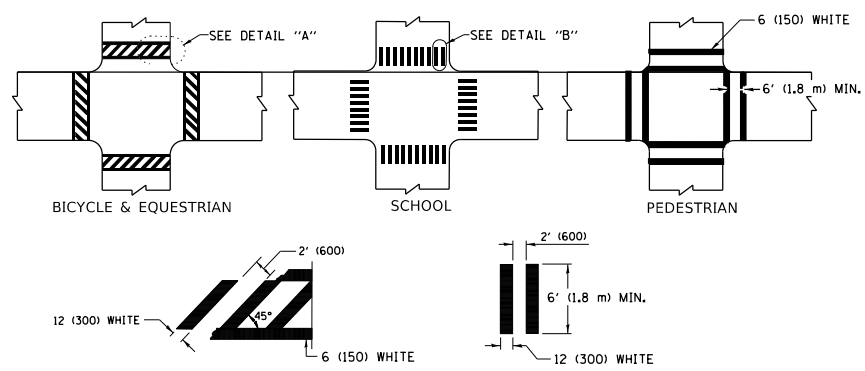


**MULTI-LANE UNDIVIDED**



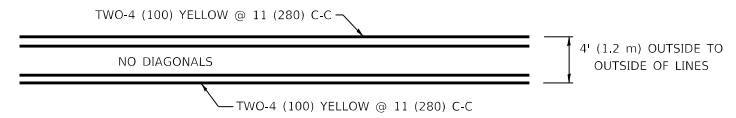
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

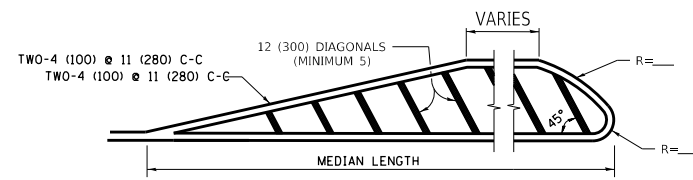


**TYPICAL CROSSWALK MARKING**

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



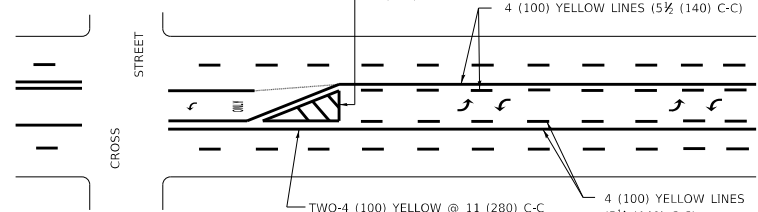
**4' (1.2 m) WIDE MEDIANS ONLY**



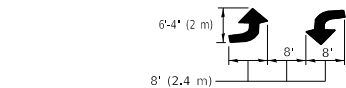
**MEDIANS OVER 4' (1.2 m) WIDE**

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))

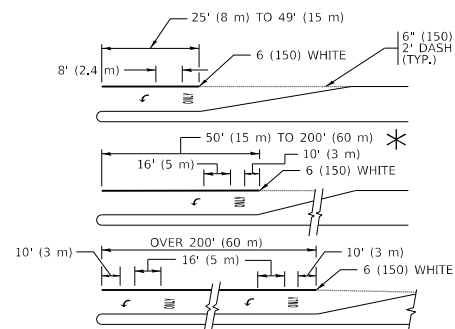


**TYPICAL PAINTED MEDIAN MARKING**



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

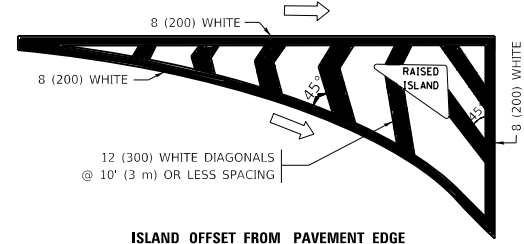


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

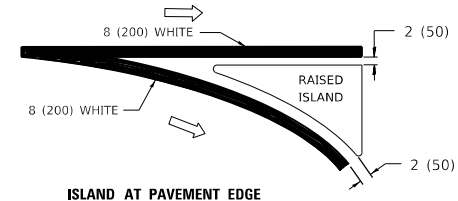
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

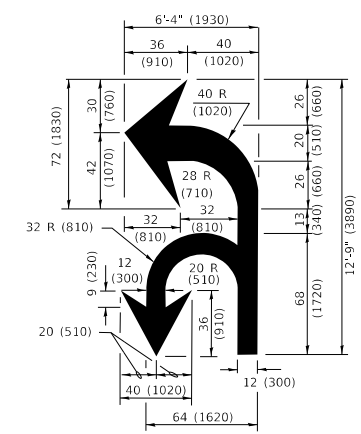
**TYPICAL TURN LANE MARKING**



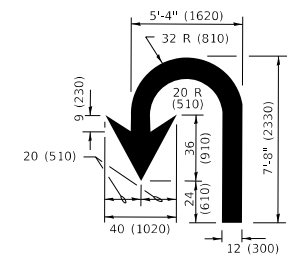
**ISLAND OFFSET FROM PAVEMENT EDGE**



**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

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

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 <sup>2</sup> ) EACH *X*=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.

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USER NAME = ledezmar	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 10/18/2019	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		REVISED - C. JUCIUS 04-12-16

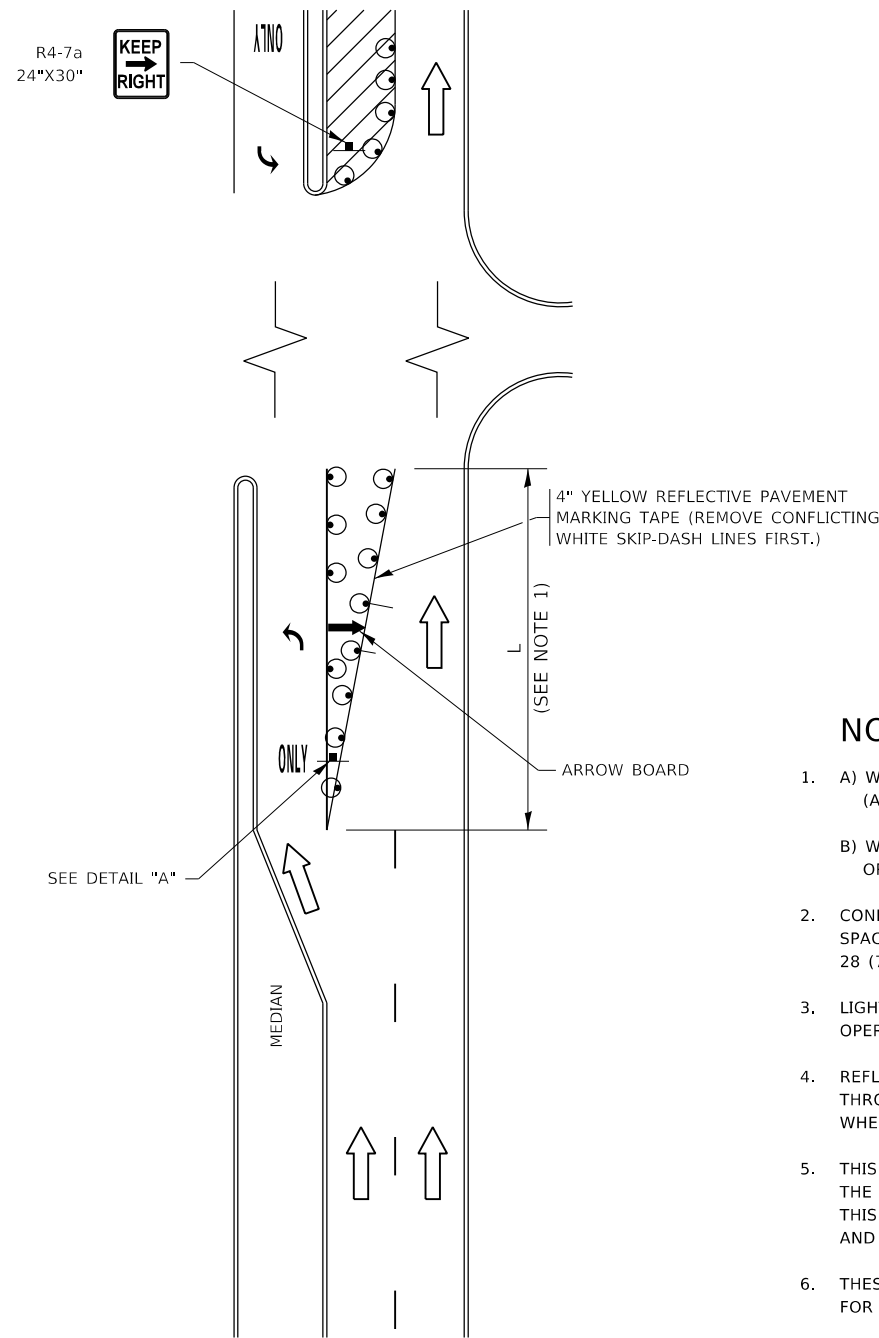
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

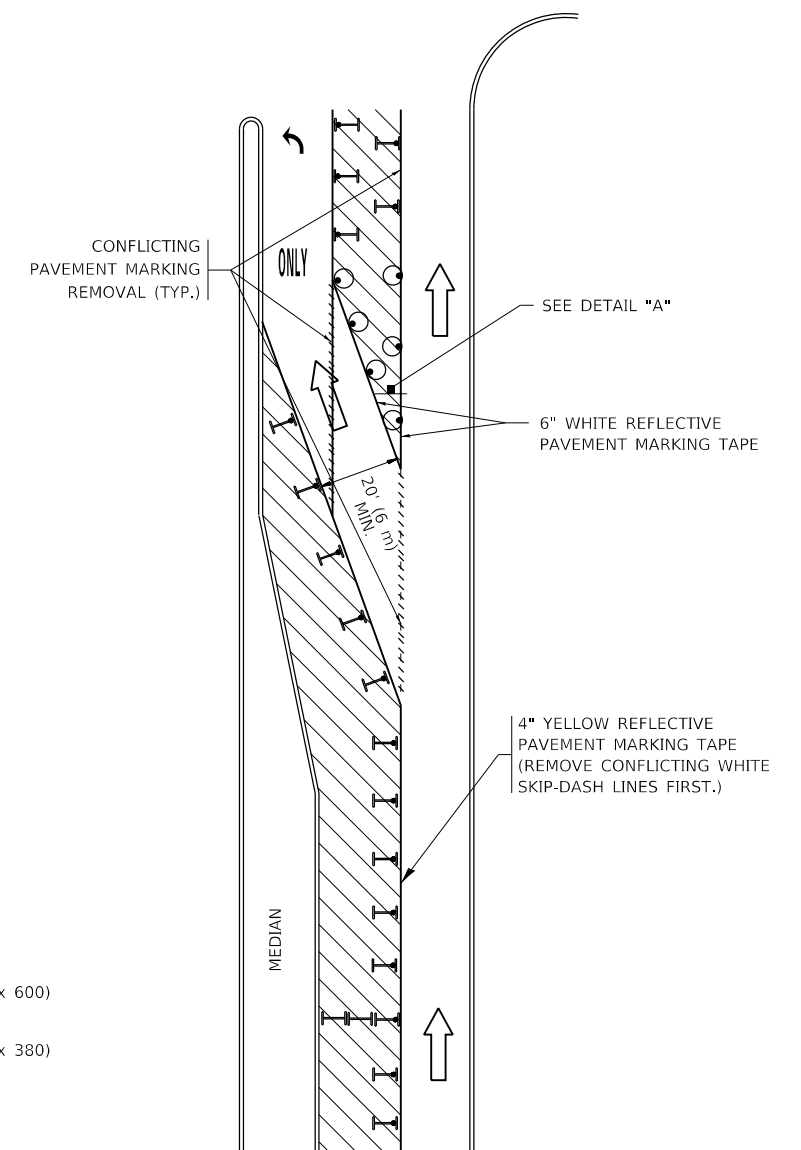
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	64
<b>TC-13</b>		CONTRACT NO. 60Y74		
		ILLINOIS	FED. AID PROJECT	

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

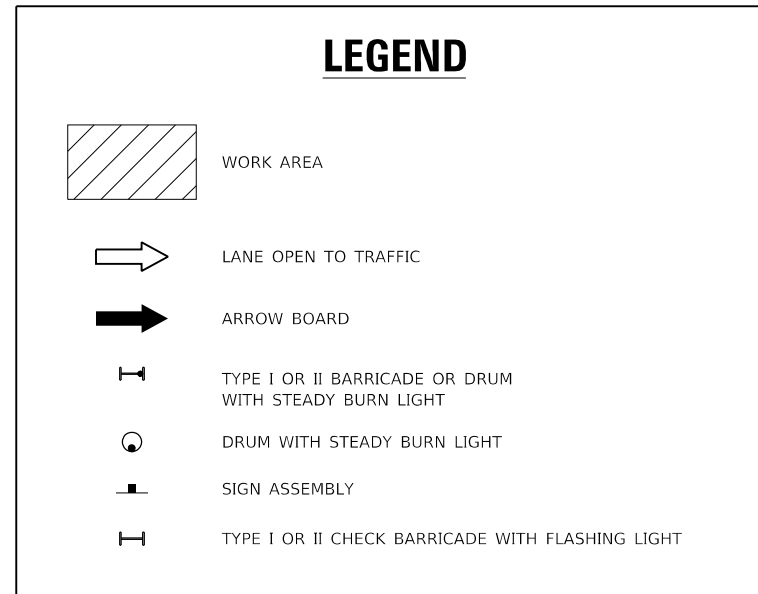


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

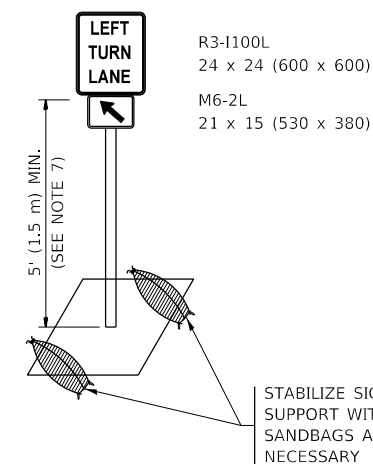


**FIGURE 2**



### NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

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

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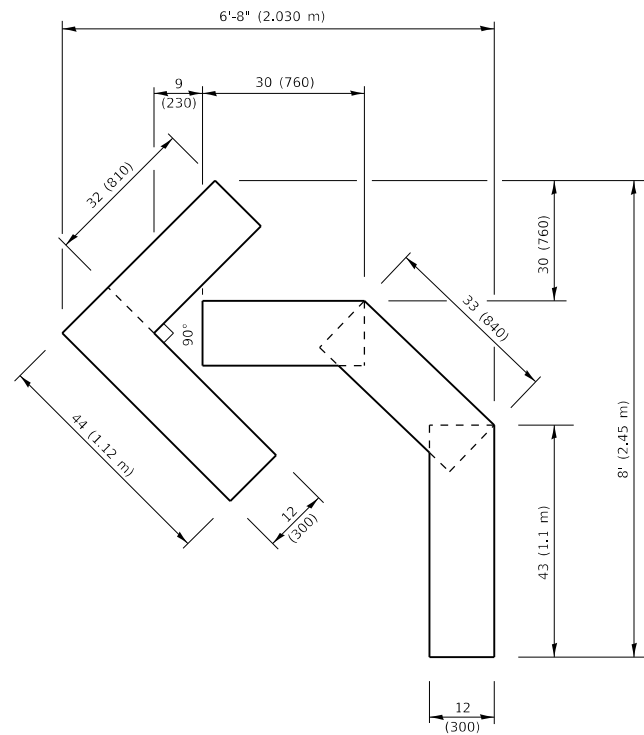
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0002' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 10/18/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

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DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

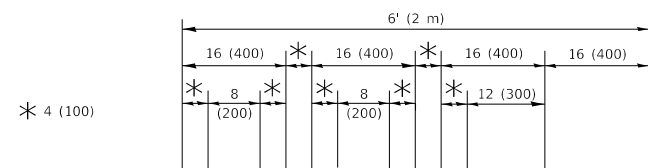
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	65
TC-14		CONTRACT NO. 60Y74		
ILLINOIS FED. AID PROJECT				



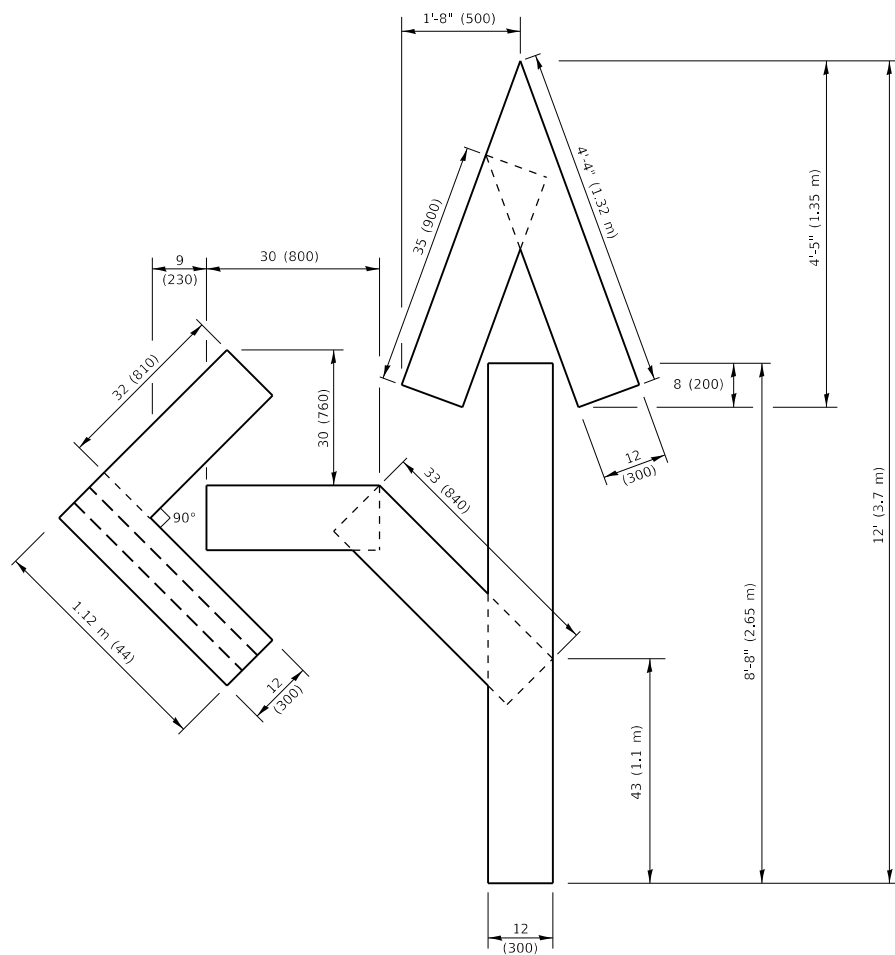
**QUANTITY**

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



**QUANTITY**

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

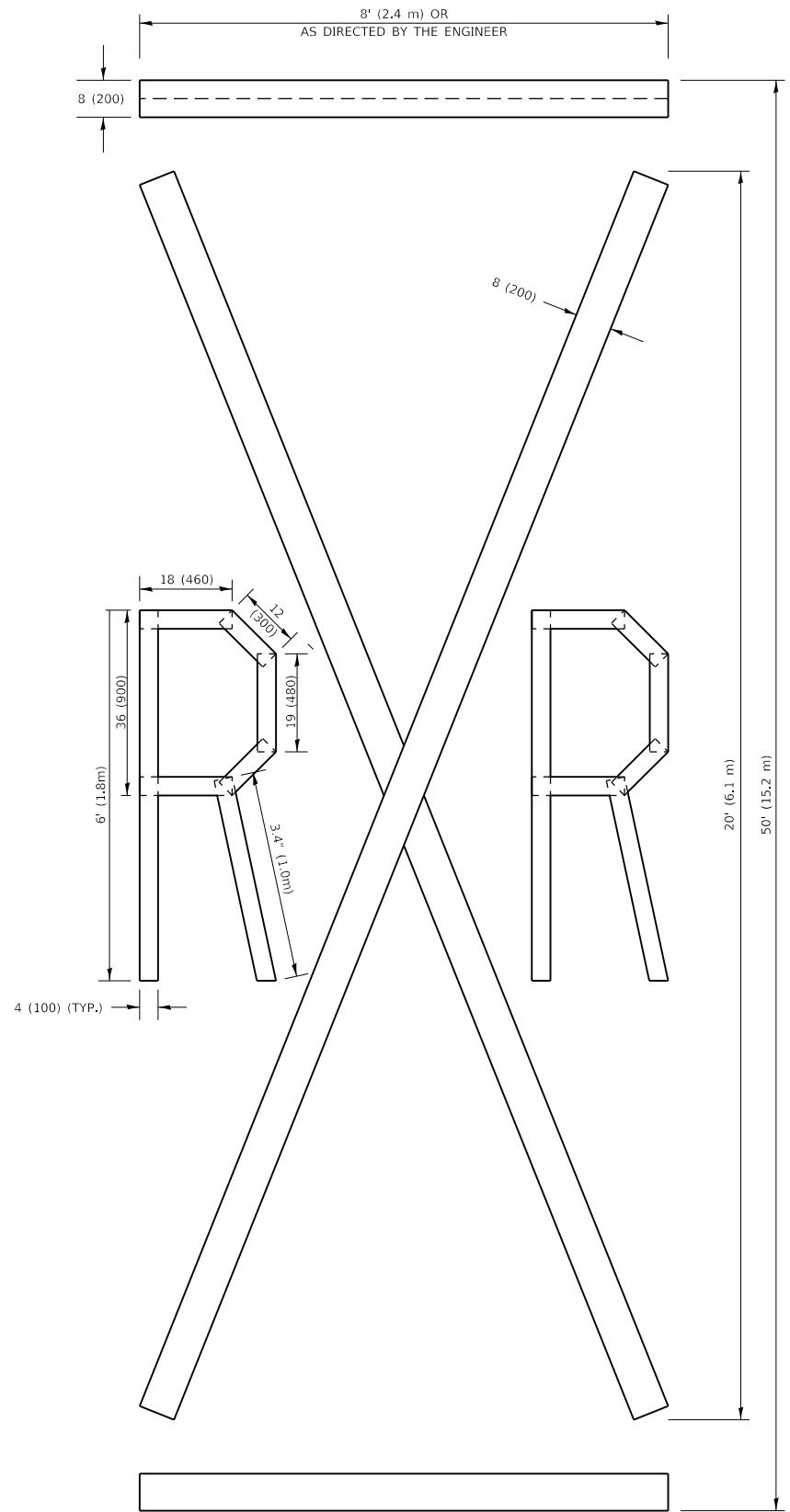


**QUANTITY**

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.



**QUANTITY**

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.

MODEL: Default  
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	DRAWN -	REVISED - E. GOMEZ 08-28-00
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PLOT DATE = 10/18/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

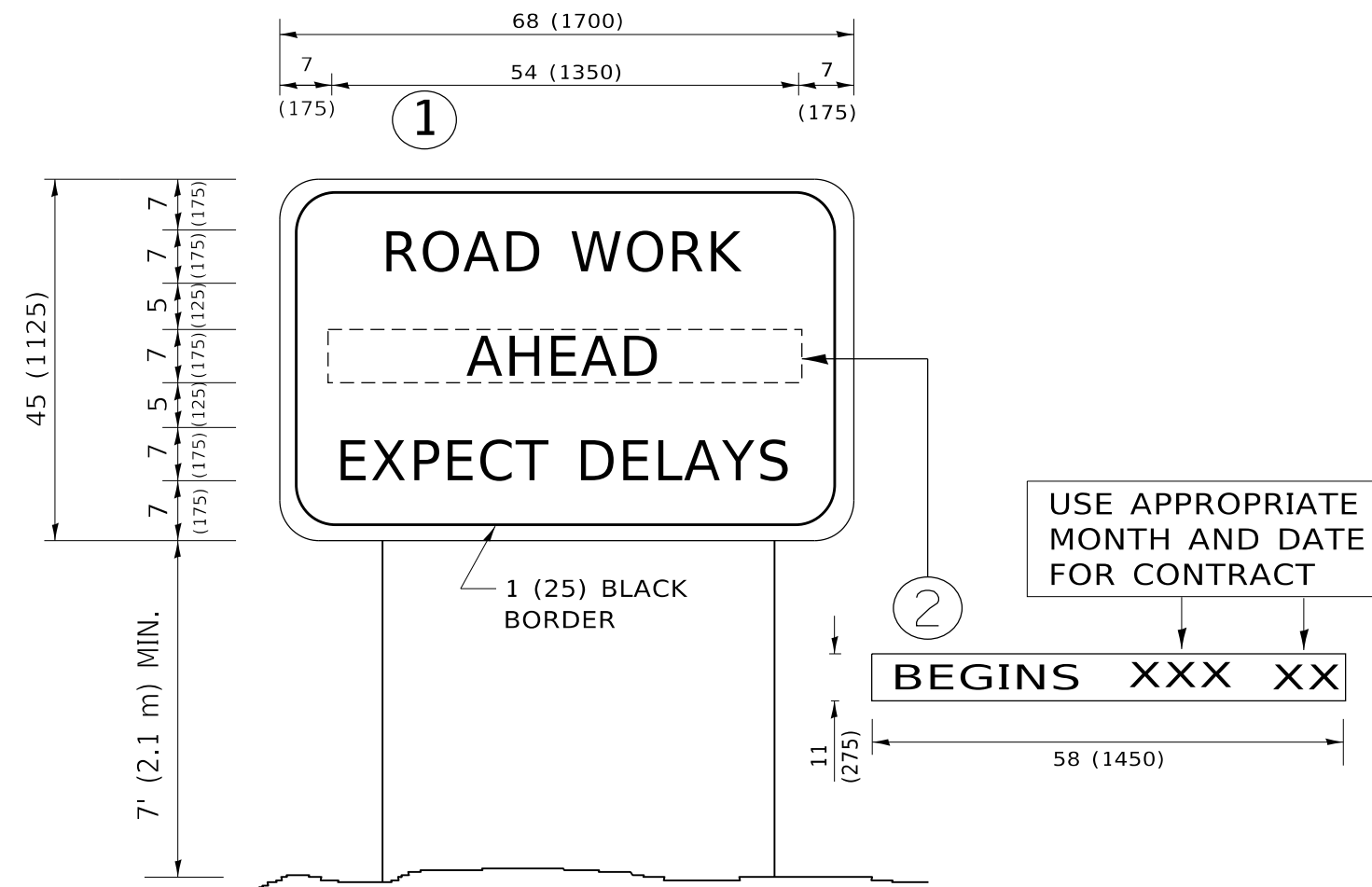
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	66
<b>TC-16</b>			<b>CONTRACT NO. 60Y74</b>	
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.

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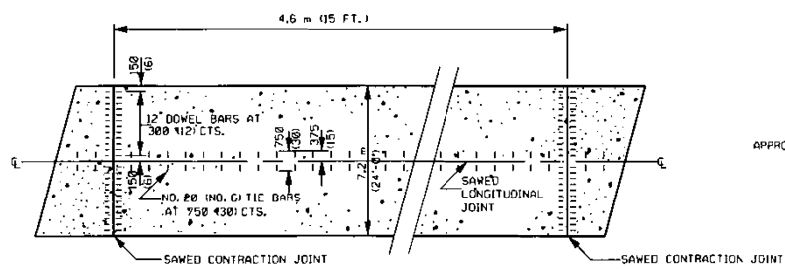
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	DRAWN -	REVISED - R. MIRS 12-11-97
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PLOT DATE = 10/18/2019	DATE -	REVISED - C. JUCIUS 01-31-07

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DEPARTMENT OF TRANSPORTATION**

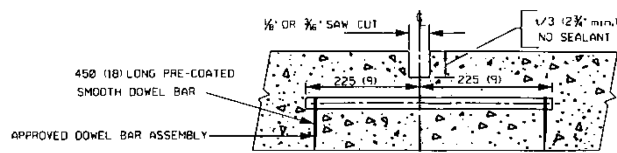
**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE    SHEET 1 OF 1 SHEETS    STA.    TO STA.

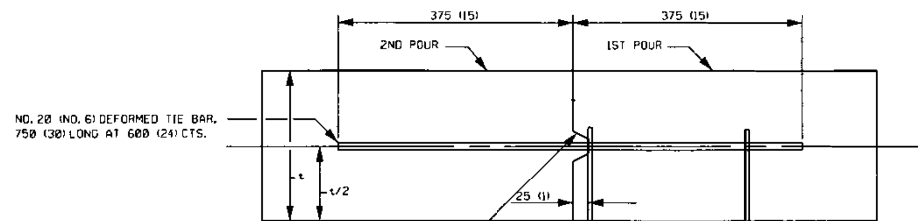
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TC-22			CONTRACT NO. 60Y74	
ILLINOIS FED. AID PROJECT				



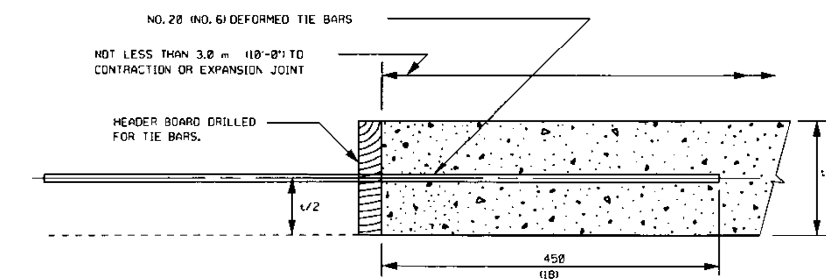
P.C. CONCRETE PAVEMENT DETAIL  
SEE I.D.O.T. STANDARDS 420001 AND 420701 FOR ADDITIONAL DETAILS



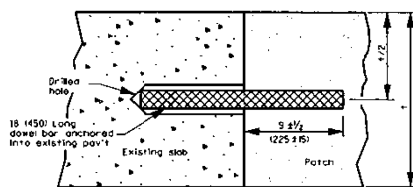
CONTRACTION JOINT DETAIL



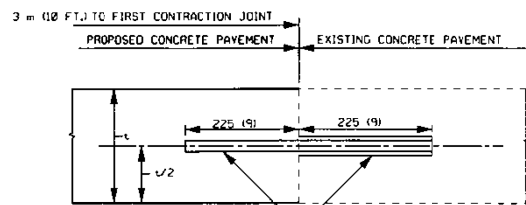
LONGITUDINAL CONSTRUCTION JOINT DETAIL  
TYPE A - INSTALL TIE BARS  
TYPE B - OMIT TIE BARS



TRANSVERSE CONSTRUCTION JOINT DETAIL



TRANSVERSE JOINT DETAIL



JOINT DETAIL AT CONTRACT TERMINAL(S)  
DOWEL BARS - SIZE AND SPACING SHALL BE THE SAME AS THAT USED AT SAWED CONTRACTION JOINTS.  
DRILL AND GROUT - IF DOWEL BARS HAVE NOT BEEN PROVIDED IN THE EXISTING PAVEMENT, THEY SHALL BE FURNISHED AND INSTALLED AS SHOWN. THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR P.C. CONCRETE PAVEMENT.

NOTE:  
THE INTENT OF THIS STANDARD IS TO REFLECT ADDITIONS OR VARIATIONS TO I.D.O.T. STANDARDS CONTAINED IN THE PLANS.

THIS STANDARD SHALL GOVERN OVER THE I.D.O.T. STANDARDS.

NOTES (SUPPLEMENTAL TO I.D.O.T. STANDARDS)

STANDARDS 606101, 606201 AND 606006 - TYPE A GUTTER, TYPE B GUTTER AND OUTLET FOR CURB AND GUTTER

TIE BARS SHALL BE NO. 20 (NO. 6) SPACED AT 600 mm (24 IN.) CENTERS.

CONCRETE INLETS, ENTRANCES AND OUTLETS FOR GUTTER OR COMBINATION CURB AND GUTTER SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (FOOT) FOR THE PARTICULAR TYPE OF GUTTER OR COMBINATION CURB AND GUTTER SPECIFIED.

STANDARD 606001 - CURB AND COMBINATION CURB AND GUTTER

TYPE	A	B	C	D	R
B-V-30 (B-V-12)	300 (12)	50 (2)	125 (5)	VARIABLE	25 (1)
B-V-45 (B-V-18)	450 (18)	50 (2)	125 (5)	VARIABLE	25 (1)
B-V-60 (B-V-24)	600 (24)	50 (2)	125 (5)	VARIABLE	25 (1)

VARIABLE CURB AND GUTTER SHALL BE CONSTRUCTED WITH THE HEIGHT OF CURB VARYING BETWEEN 100 mm (4 IN.) AND 225 mm (9 IN.), AS REQUIRED. THE TOP OF CURB ELEVATION SHALL BE DETERMINED BY THE ENGINEER.

LONGITUDINAL JOINT TIE BARS SHALL BE NO. 20 (NO. 6) SPACED AT 600mm (24 IN.) CENTERS.

WHERE EXISTING CURB AND GUTTER IS TO BE REMOVED AND REPLACED ADJACENT TO EXISTING CONCRETE PAVEMENT REMAINING IN PLACE, THE CONTRACTOR SHALL PERFORM THE REMOVAL SO THAT THE EXISTING TIE BARS CAN BE USED IN TYING THE NEW CURB AND GUTTER TO THE EXISTING PAVEMENT. ANY TIE BARS WHICH ARE DAMAGED OR MISSING SHALL BE REPLACED WITH NO. 20 (NO. 6) TIE BARS, 600 mm (24 INCHES) LONG, EMBEDDED 200 mm (8 INCHES) AT 600 mm (24 INCH) CENTERS IN ACCORDANCE WITH THE ARTICLE 420.05 (B) OF THE STANDARD SPECIFICATIONS. THE COST OF FURNISHING AND INSTALLING THE TIE BARS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PARTICULAR TYPE OF CURB AND GUTTER SPECIFIED.

THE DEPTH OF THE CURB OR COMBINATION CURB AND GUTTER SHALL BE EQUIVALENT TO THE DEPTH OF THE ADJACENT PAVEMENT, REGARDLESS OF PAVEMENT COMPOSITION.

STANDARD 353001 - PCC BASE WITH HOT MIX ASPHALT BINDER AND SURFACE COURSE

TIE BARS SHALL BE NO. 20 (NO. 6) SPACED AT 750 mm (30 IN.) CENTERS.

STANDARD 420001 - PAVEMENT JOINTS

JOINTS AND REINFORCEMENT BARS SHALL BE PLACED IN ACCORDANCE WITH THE P.C. CONCRETE PAVEMENT DETAIL SHOWN ON THIS SHEET.

LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.

TIE BARS SHALL BE NO. 20 (NO. 6).

TRANSVERSE SAWED CONTRACTION JOINTS, TRANSVERSE CONSTRUCTION JOINTS AND JOINTS AT CONTRACT TERMINALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS SHEET.

STANDARD 442101 - CLASS B PATCHES

IF A SAWED LONGITUDINAL JOINT IS REQUIRED, TIE BARS SHALL BE NO. 20 (NO. 6) SPACED AT 750 mm (30 IN.) CENTERS.

STANDARD 442201 - CLASS C AND D PATCHES

CLASS C PATCHES SHALL BE TIED TO THE EXISTING PAVEMENT ALONG ALL SIDES OF THE PATCH WITH NO. 20 (NO. 6) TIE BARS, 600 mm (24 INCHES) LONG, EMBEDDED 200 mm (8 INCHES) AT 600 mm (24 INCH) CENTERS IN ACCORDANCE WITH ARTICLE 420.05 (B) OF THE STANDARD SPECIFICATIONS. MINIMUM 3 BARS ON EACH SIDE. THE COST OF FURNISHING AND INSTALLING THE TIE BARS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR CLASS C PATCHES.

ALL GUARDRAIL AND TRAFFIC BARRIER TERMINAL STANDARDS

HOT-MIX ASPHALT SHOULDERS, 150 mm (6 IN.), SHALL BE PLACED UNDERNEATH THE ENTIRE LENGTH OF ALL PROPOSED GUARDRAIL AND TRAFFIC BARRIER TERMINALS AND EXTEND 2.5 m (12 FT.) BEYOND THE TERMINAL ENDS. THE WIDTH OF THE SHOULDER SHALL EXTEND ONE FOOT BEYOND EITHER SIDE OF THE POSTS FOR THE GUARDRAIL AND TRAFFIC BARRIER TERMINALS AND AS SHOWN ON THE PLANS. EARTH EXCAVATION NECESSARY FOR PLACEMENT OF THE SHOULDER SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR HOT-MIX ASPHALT SHOULDERS, 6 IN.

DETAIL NOTES

SEE I.D.O.T. STANDARDS FOR DETAILS NOT SHOWN.

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

ALL TIE BAR SIZES ARE METRIC (STANDARD)

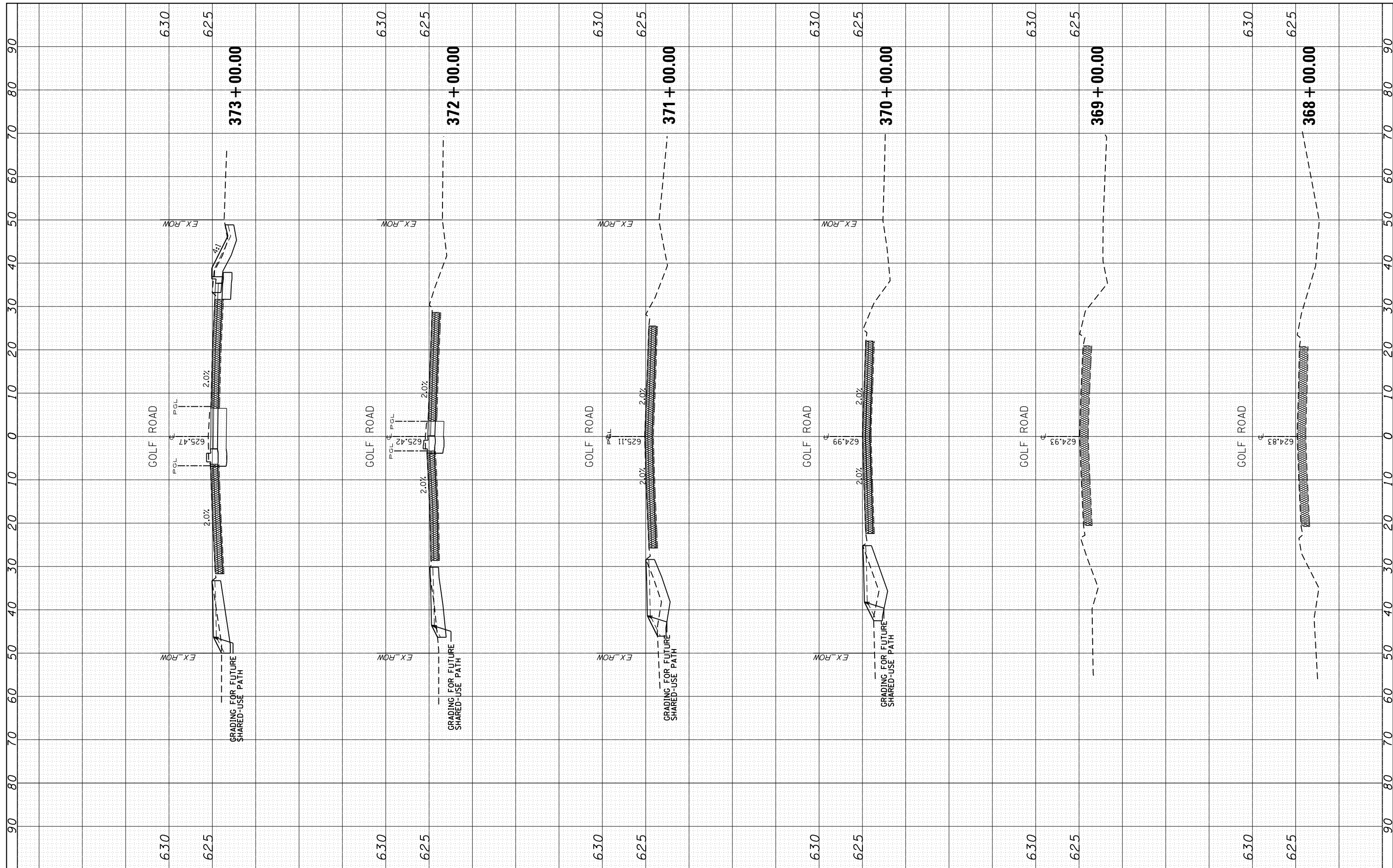
t = PAVEMENT THICKNESS

STANDARD P-7

MUNICIPALITY, IL MUNICIPALITY, IL NAME TOWNSHIP	COUNTY HIGHWAY: XXX	COMPUTED: A.L.B. DRAWN: XXX CHECKED: XX	REVISIONS	DATE	PROJECT NAME	C-X
	FISCAL YEAR: XXXX		TIE BAR SIZE & SPACING, GUARDRAIL, SHOULDER TYPE	12-01-12		
SECTION: XX-XXXX-XX-XX			TRANSVERSE JOINT DETAIL	04-01-13		
			REVISED BORDER	01-27-14		
			REMOVE "TIE BARS MAY BE BENT"	03-30-17		

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



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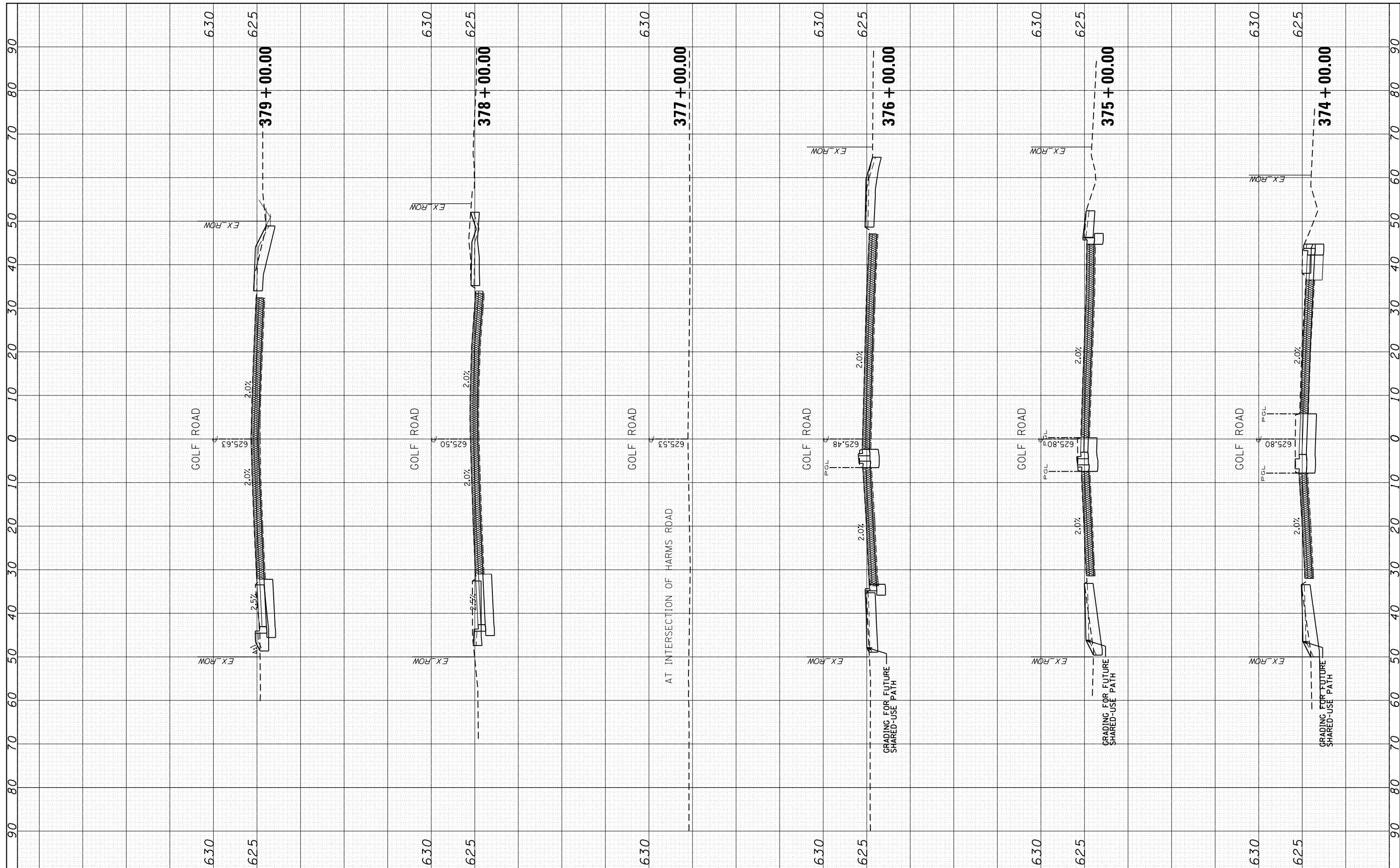
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS GOLF ROAD AT HARMS ROAD</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 368+00.00 TO STA. 373+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312		COOK	73	69
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



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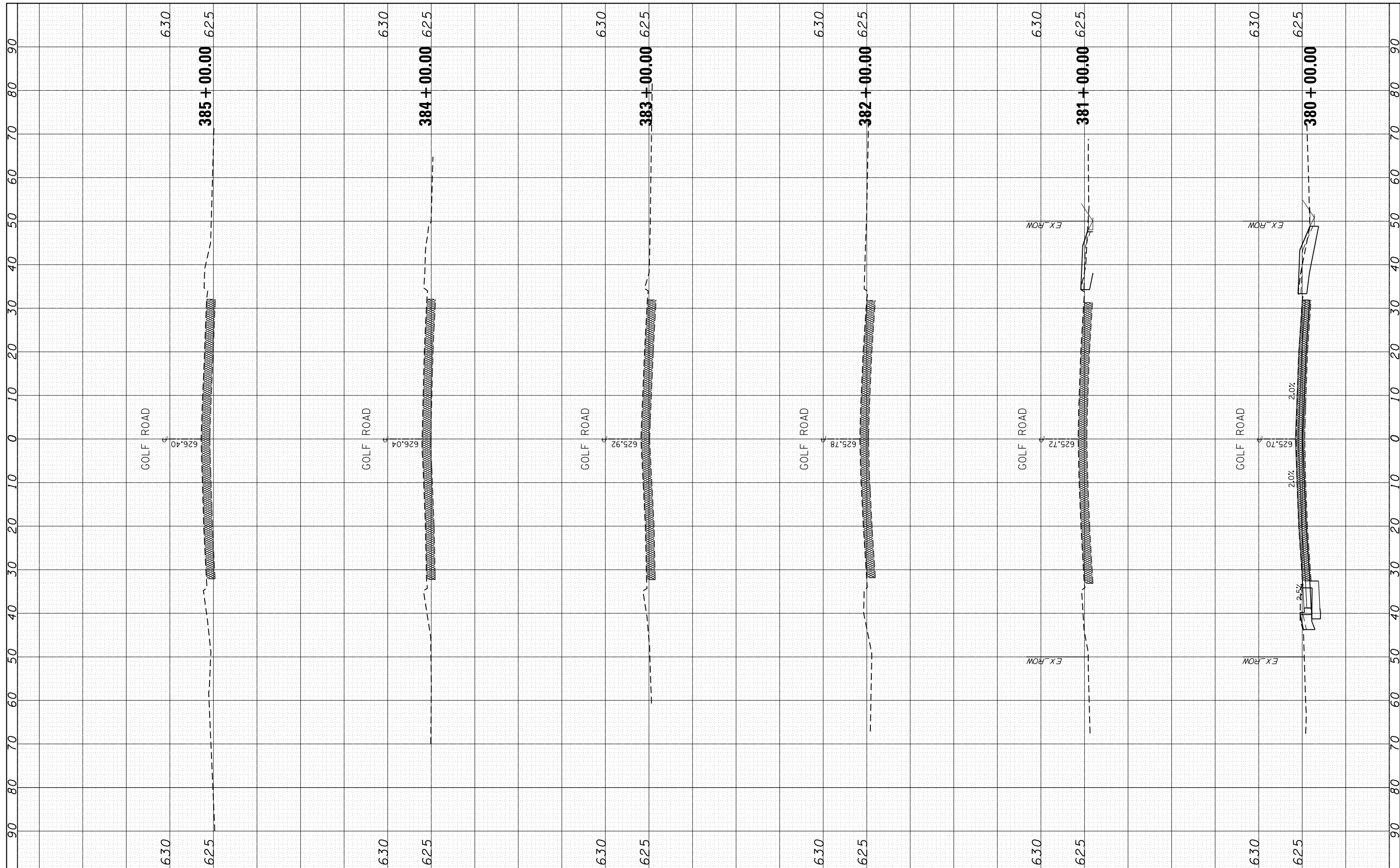
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS GOLF ROAD AT HARMS ROAD</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 374+00.00 TO STA. 379+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312		COOK	73	70
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		



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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
GOLF ROAD AT HARMS ROAD**

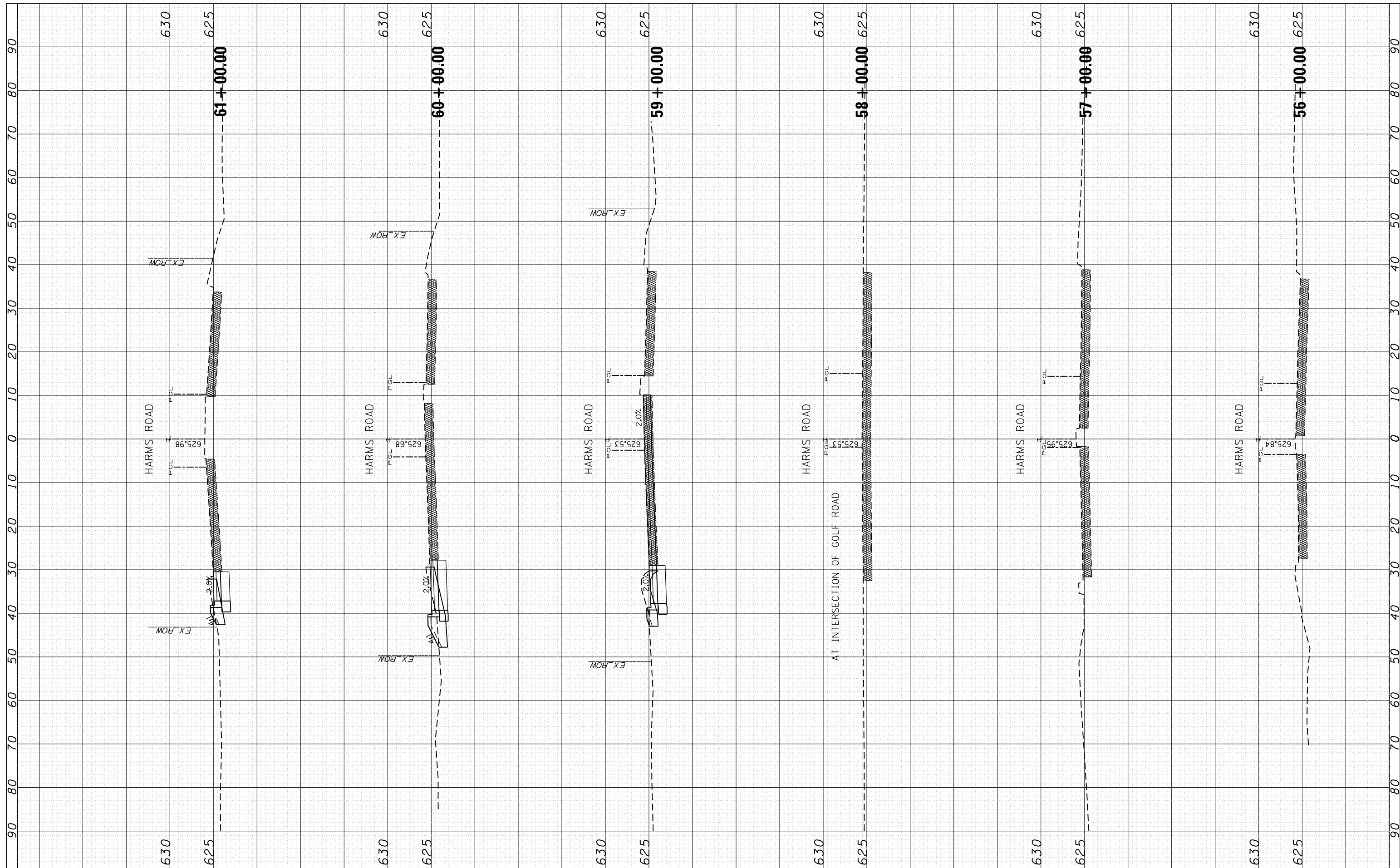
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



FINIAL SURVEY NO.	SURVEYED AREAS CHECKED
PLOTTED TEMPLATE	PLOTTED TEMPLATE
NOTE BOOK	NOTE BOOK
DATE	DATE

ORIGINAL SURVEY NO.	SURVEYED AREAS CHECKED
PLOTTED TEMPLATE	PLOTTED TEMPLATE
NOTE BOOK	NOTE BOOK
DATE	DATE



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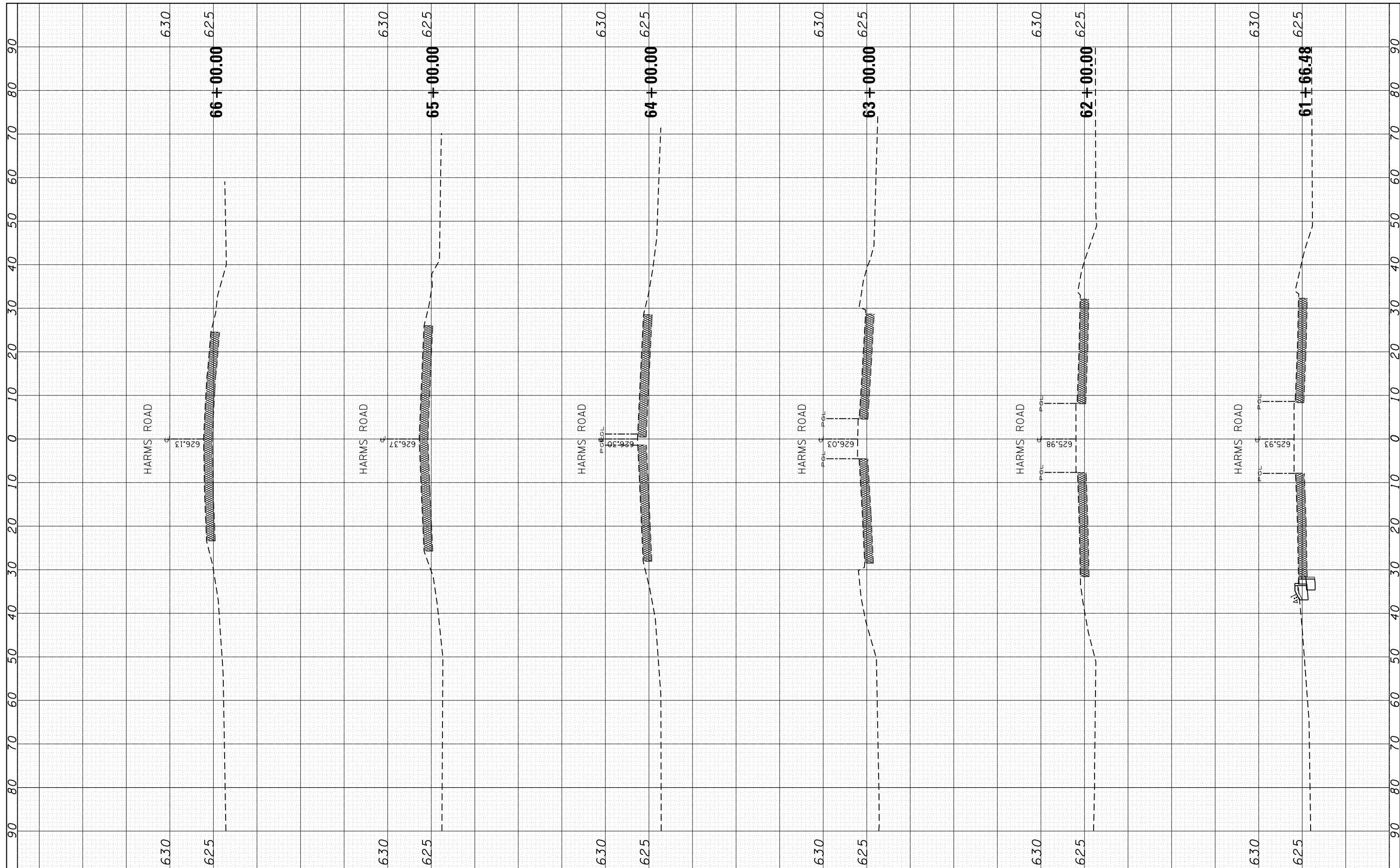
**CROSS SECTIONS  
GOLF ROAD AT HARMS ROAD**

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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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Default	PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
GOLF ROAD AT HARMS ROAD**

SCALE: SHEET OF SHEETS STA. 61+66.48 TO STA. 66+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584N(14)	COOK	73	73
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				