

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

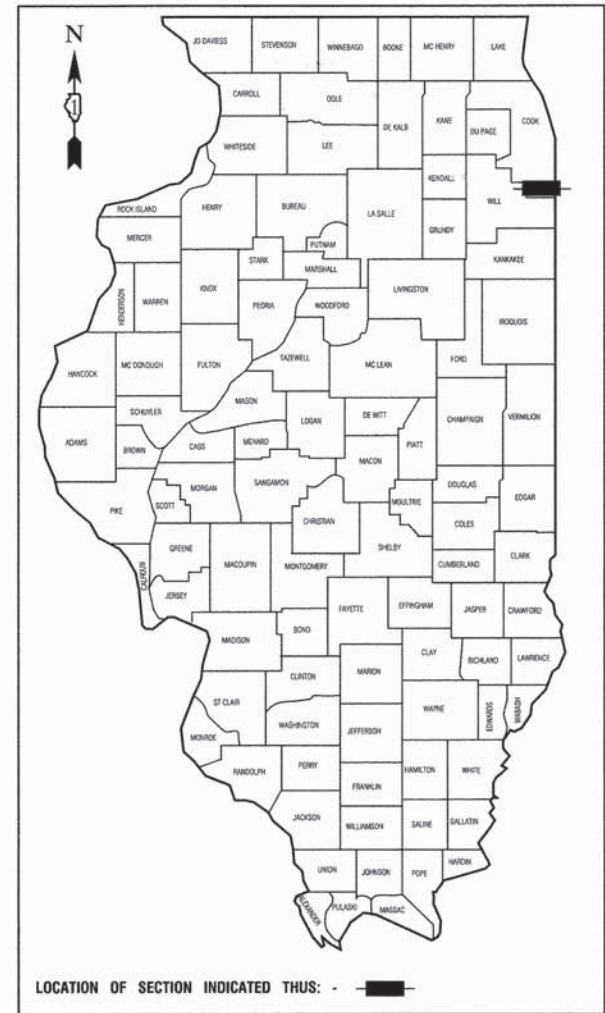
F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	1
STA.	TO STA. 58+1=54			
FED. ROAD DIST. NO. 1	PLAN NO.	FED. AID PROJECT	HSIP-8003(848)	

CONTRACT #61B76

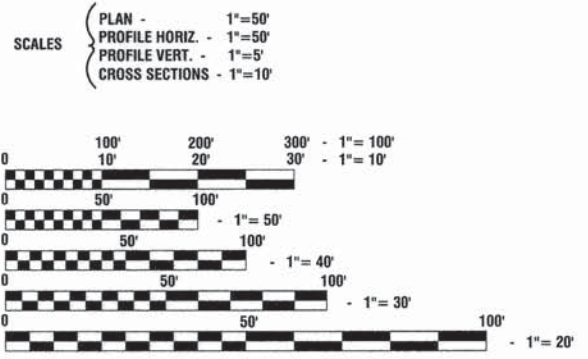
INDEX OF SHEETS
SEE SHEET NO. 2

HIGHWAY STANDARDS
SEE SHEET NO. 2

**FAU 2937 (IL RTE 83/TORRENCE AVENUE)
AT FAU ROUTE 1621 (RIDGE ROAD)
INTERSECTION IMPROVEMENT
SECTION NO.: 07-00165-00-TL
PROJECT NO.: HSIP-8003(848)
VILLAGE of LANSING
COOK COUNTY
JOB NO.: C-91-375-07**

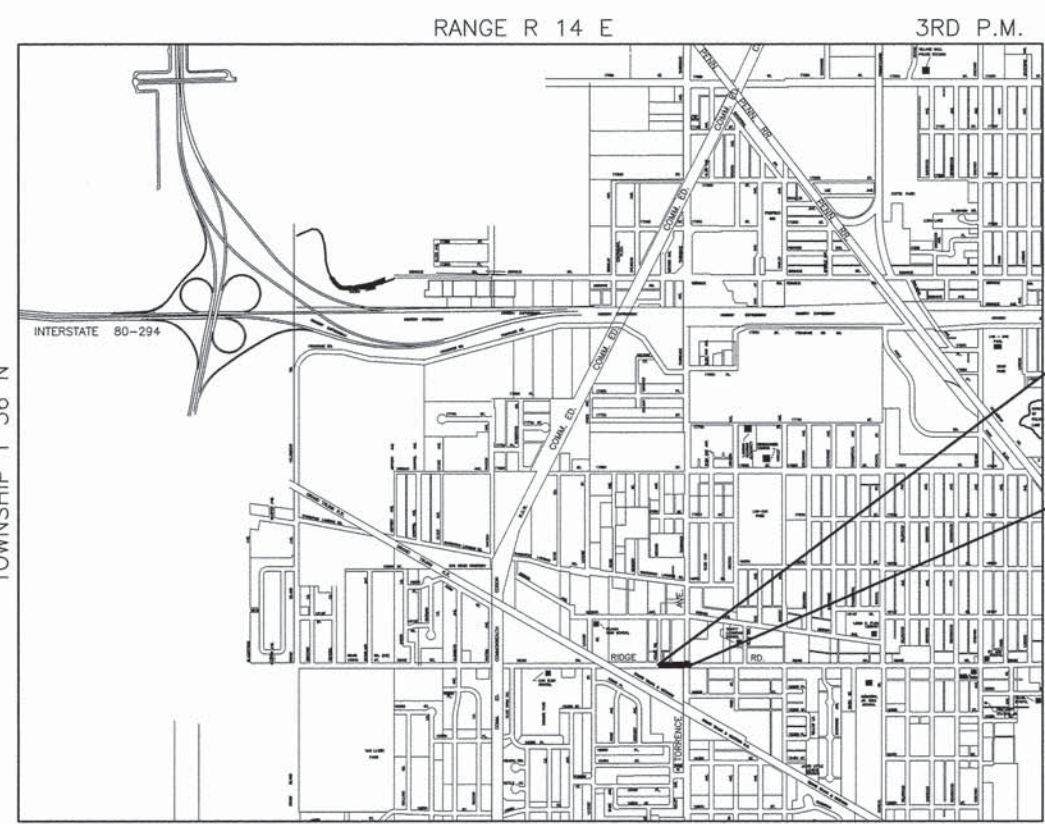


DESIGN DESIGNATION - RIDGE ROAD ADT = 10,000 (2040) - MAJOR COLLECTOR (URBAN) - 0.87		
	PV = 9500	SU = 300 MU = 200
	% DESIGN TRAFFIC IN DESIGN LANE	
	P = 95%	S = 3% M = 2%
	SSS = POOR	
	RIDGE ROAD	TORRENCE AVENUE
2008 ADT -	5,300	17,000
2040 ADT -	10,000	18,000
POSTED SPEED LIMIT -	25/35 MPH	30 MPH
DESIGN PERIOD -	20 YEARS	20 YEARS
DESIGN SPEED LIMIT -	35 MPH	35 MPH
STREET CLASSIFICATION -	CLASS II	CLASS I



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



IMPROVEMENT BEGINS
RIDGE ROAD STA 6+41.85

IMPROVEMENT END
RIDGE ROAD STA 9+73.03

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved: 8-27-15
[Signature]
Mayor, Village of Lansing

Passed: 9-3-2015
[Signature]
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review: 9-4-2015
[Signature]
Deputy Director of Highways, Region 1 Engineer

PRINTED BY THE AUTHORITY OF
THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:
[Signature]
8-24-2015

PATRICIA K. BARKER
62-51255
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
LICENSE EXPIRES: 11/30/15

CONTRACT NO. 61B76

LOCATION MAP
GROSS LENGTH=331.18 FEET=0.06 MILES
NET LENGTH=331.18 FEET=0.06 MILES

I.D.O.T. FEDERAL AID DESIGN ENGINEER: FAWAD AQUEEL, P.E. 847-705-4021
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700
CONTACT ENGINEER: PATRICIA K. BARKER

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STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-02	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
602001-02	CATCH BASIN, TYPE A
602301-04	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
604051-04	FRAME AND GRATE, TYPE 11
606001-06	COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L 2W, 15FT TO 24IN FROM EP
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L 2W, MOVING OPERATIONS, DAY ONLY
701501-06	LANE CLOSURE, URBAN, 2L 2W, UNDIVIDED
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

- 1 ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- 2 ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3 DRAINAGE STRUCTURE ELEVATIONS: GRADES OF SEWER LINES WERE DETERMINED FROM AVAILABLE PLANS AND SURVEYS. ACCORDINGLY, AS DIRECTED BY THE ENGINEER, THE INVERTS OF THE PROPOSED DRAINAGE WILL BE REVISED TO MEET EXISTING FIELD CONDITIONS.
- 4 THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS. ALL RIM ELEVATIONS OF STRUCTURES IN THE PROPOSED CURB LINE ARE GIVEN TO THE EDGE OF PAVEMENT. ALL OTHER RIM ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURES.
- 5 HALF TRAPS ARE TO BE OMITTED IN CATCH BASINS.
- 6 FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- 7 WHEN, IN THE CONSTRUCTION OPERATION, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH DAY BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE DRAINAGE ITEMS.
- 8 WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS & SEWERS AND DISCHARGE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY SEWER CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE COST OF THE DRAINAGE ITEMS.
- 9 THE CAST IRON FRAMES AND COVERS OF FILLED, ABANDONED OR REMOVED MANHOLES, INLETS AND CATCH BASINS OR THOSE FRAMES AND COVERS UPON STRUCTURES RECEIVING NEW FRAMES AND COVERS SHALL BE STOCKPILED WITHIN THE RIGHT-OF-WAY, AS DIRECTED BY THE ENGINEER, AND PICKED UP BY THE COMMUNITY.
- 10 THE APPROXIMATE LOCATION OF KNOWN PUBLIC UTILITIES ARE SHOWN ON THE PLANS. HOWEVER, THE DEPARTMENT DOES NOT GUARANTEE ITS ACCURACY. PRIOR TO COMMENCING OPERATIONS ON THE PROJECT WHICH MAY IN ANY WAY CREATE THE POSSIBILITY OF INVOLVEMENT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE FIRM (OR COMMUNITY) INVOLVED. ADJUSTMENT OF ALL PUBLIC UTILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT WILL BE DONE BY THE RESPECTIVE OWNERS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCE CAUSED BY THESE ADJUSTMENTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATION BEFORE STARTING CONSTRUCTION OPERATIONS.
- 11 ALL TRENCHES WITHIN 2 FEET OF PROPOSED PAVEMENT, DRIVEWAYS, AND SIDEWALKS SHALL BE BACKFILLED WITH TRENCH BACKFILL ONLY.
- 12 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 SHALL BE INSTALLED WITH A THICKNESS EQUAL TO EIGHT INCHES (8").

- 13 THE CONTRACTOR SHALL PROTECT ALL TREES WITHIN AND ADJACENT TO THE CONSTRUCTION SITE DURING THE CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS. THOSE TREES TO BE REMOVED AS SHOWN IN THE PLANS SHALL BE DONE IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS.
- 14 BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
- 15 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 16 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE.
- 17 ALL STORM SEWERS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED WITH PREFORMED FLEXIBLE GASKETS IN ACCORDANCE WITH ARTICLE 1056.01 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STORM SEWERS AS SPECIFIED.
- 18 THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK. THE CONTRACTOR SHALL ALSO CONTACT ROBINSON ENGINEERING (708) 331-6700 AND THE VILLAGE OF LANSING (708) 895-7190, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 19 ALL HMA PAVING SHALL FOLLOW DESIGNATED DRIVING LANES AS SHOWN IN STRIPING DETAILS. NO LONGITUDINAL PAVING JOINT OR SEAMS ARE ALLOWED WITHIN THE DRIVING LANES. ALL LONGITUDINAL PAVING JOINTS OR SEAMS WILL BE BETWEEN THE DRIVING LANES.
- 20 AGGREGATE SUBGRADE IMPROVEMENT HAS BEEN PROVIDED FOR LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- 21 ALL PAVEMENT, CURB AND SIDEWALK REMOVALS SHALL BE MADE BY MEANS OF STRAIGHT SAW CUT JOINT. THE COST FOR SAW CUTTING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- 22 CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2012, THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 23 10' TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER OR TO TAPER FROM 6" TO 0", UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- 24 ALL STORM SEWERS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STATE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE A.A.S.H.T.O. DESIGNATION M170 (A.S.T.M. DESIGNATION C76), WITH A MINIMUM OF CLASS III.
- 25 PROPOSED STORM SEWER CONNECTIONS TO EXISTING DRAINAGE STRUCTURES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE STORM SEWER.
- 26 ABANDONED PIPES SHALL BE PLUGGED ACCORDING TO SECTION 605 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ADJUSTMENT OR REMOVAL OF THE ADJACENT DRAINAGE STRUCTURE.
- 27 THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD TECHNICIAN, PATRICE HARRIS, AT (708) 597-9800, A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- 28 BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PARKING LINES (AND RAISED REFLECTIVE 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.
- 29 THE THICKNESS OF THE HMA MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS, DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA SURFACE IS PLACED AS APPROVED BY THE ENGINEER.
- 30 ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES BY LIMITING CURB AND GUTTER REPAIR TO ONE HALF THE DRIVEWAY WIDTH AT ONE TIME AS WELL AS TEMPORARY AGGREGATE. ANY TEMPORARY AGGREGATE USED WILL BE INCLUDED IN THE COST OF THE DRIVEWAY ITEMS.
- 31 IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.

FILE NAME = 07388_02-NOTE-01 - N-1	USER NAME =	DESIGNED -- EA	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 83 / TORRENCE AVENUE AT RIDGE ROAD GENERAL NOTES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- PB	REVISED --			1621	07-00165-00-TL	COOK	53	3		
	PLOT SCALE =	DRAWN -- JJB	REVISED --			CONTRACT NO. 61B76						
	PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --			SCALE: NONE	SHEET NO. 3	OF 53 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS

SUMMARY OF QUANTITIES					ROAD	SAFETY	LNSC	TRAINEES	OTHER				
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE								
					004	021	031	042	044				
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	28				28					
	20101700	SUPPLEMENTAL WATERING	UNIT	6				6					
	20200100	EARTH EXCAVATION	CU YD	664	664								
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100	100								
	20800150	TRENCH BACKFILL	CU YD	144	144								
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	530				530					
	21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	50	50								
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6				6					
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	6				6					
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6				6					
	25200110	SODDING, SALT TOLERANT	SQ YD	515				515					
	28000400	PERIMETER EROSION BARRIER	FOOT	58				58					
	28000510	INLET FILTERS	EACH	17				17					
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	100	100								
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1875	1875								
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	575	575								
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUNDS	3766	3766								
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	562	562								
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	187	187								
	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	68	68								
	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	147	147								
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	3240	3240								
	42400800	DETECTABLE WARNINGS	SQ FT	90			90						
	44000100	PAVEMENT REMOVAL	SQ YD	2043	2043								
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	87	87								
	44000300	CURB REMOVAL	FOOT	634	634								
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1033	1033								

FILE NAME = 07398_02-QUAN-01 - 01

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 4 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	4
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-6003(648)			CONTRACT NO. 61B76	

S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	ROAD	SAFETY	LNSC	TRAINEES	OTHER					
					CONSTRUCTION TYPE CODE									
					004	021	031	042	044					
	44000600	SIDEWALK REMOVAL	SQ FT	3750	3750									
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	423	423									
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	25	25									
	55100300	STORM SEWER REMOVAL 8"	FOOT	61	61									
	55106015	STORM SEWER INSTALLATION 8"	FOOT	18	18									
	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	8	8									
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1									
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2									
	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	4	4									
	60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2									
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1									
	60500050	REMOVING CATCH BASINS	EACH	4	4									
	60600605	CONCRETE CURB, TYPE B	FOOT	634	634									
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1007	1007									
*	63200310	GUARDRAIL REMOVAL	FOOT	35	35									
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	400	400									
*	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1									
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2									
	67100100	MOBILIZATION	L SUM	1	1									
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	75	75									
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	9100	9100									
	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	127	127									
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3900	3900									
	72000100	SIGN PANEL - TYPE 1	SQ FT	40	40									
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2									
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	5	5									
	72900100	METAL POST - TYPE A	FOOT	44	44									
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	255	255									
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2920	2920									
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1070	1070									

FILE NAME = 07398_02-QUAN-01 - 02

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 5 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	5
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT HSIP-8003(B48)	

CONTRACT NO. 61B76

SUMMARY OF QUANTITIES					ROAD	SAFETY	LNSC	TRAINEES	OTHER				
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE								
					004	021	031	042	044				
*	7800600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	552		552							
*	7800650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150		150							
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	1005		1005							
*	8050020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1							
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1326		1326							
*	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	37		37							
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	142		142							
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	658		658							
*	81400100	HANDHOLE	EACH	7		7							
*	81400200	HEAVY-DUTY HANDHOLE	EACH	4		4							
*	81400300	DOUBLE HANDHOLE	EACH	2		2							
*	81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	642		642							
*	81603136	UNIT DUCT, 600V, 5-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	669		669							
*	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	27		27							
*	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	3		3							
*	84200804	REMOVAL OF POLE FOUNDATION	EACH	3		3							
*	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	3		3							
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1							
*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1							
*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1410		1410							
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1174		1174							
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1496		1496							
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	781		781							
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2041		2041							
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2098		2098							
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	189		189							
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	610		610							

FILE NAME = 07398_02-QUAN-01 - 03

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 6 OF 53 SHEETS STA. TO STA.

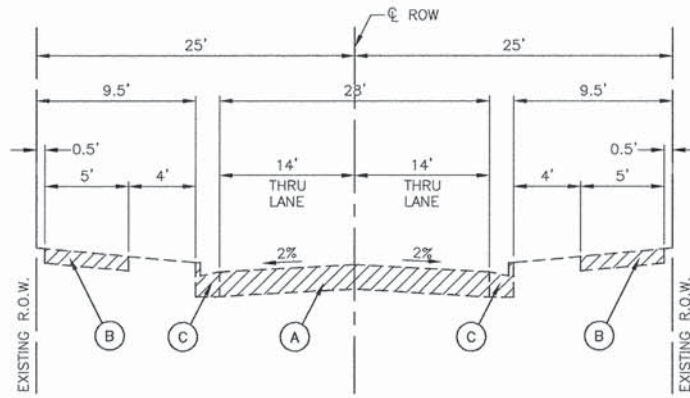
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	6
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT HSIP-8003(848)	

CONTRACT NO. 61B76

SUMMARY OF QUANTITIES					ROAD	SAFETY	LNSC	TRAINEES	OTHER				
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE								
					004	021	031	042	044				
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		4							
*	87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1							
*	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2		2							
*	87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1							
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16							
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4							
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	46		46							
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4							
*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6		6							
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6		6							
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8							
*	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10		10							
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8							
*	88600100	DETECTOR LOOP, TYPE I	FOOT	664		664							
*	88700200	LIGHT DETECTOR	EACH	2		2							
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1							
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8							
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1							
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1010		1010							
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1							
*	89502380	REMOVE EXISTING HANDHOLE	EACH	8		8							
*	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1							
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9							
	Z0007601	BUILDING REMOVAL NO. 1	L SUM	1					1				
*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4		4							
*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1							
*	Z0049901	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1	L SUM	1					1				

SUMMARY OF QUANTITIES					ROAD	SAFETY	LNSC	TRAINEES	OTHER				
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE								
					004	021	031	042	044				
	Z0062456	TEMPORARY PAVEMENT	SQ YD	234		234							
*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1							
	Z0076600	TRAINEES	HOUR	500				500					
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500				500					
*	X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1							
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	266		266							
*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	141		141							
	X0327009	REMOVE SIGN, SPECIAL	EACH	1		1							
	X0350810	BOLLARD REMOVAL	EACH	2	2								
*	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	2	2								
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1							
*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1							
*	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1410		1410							

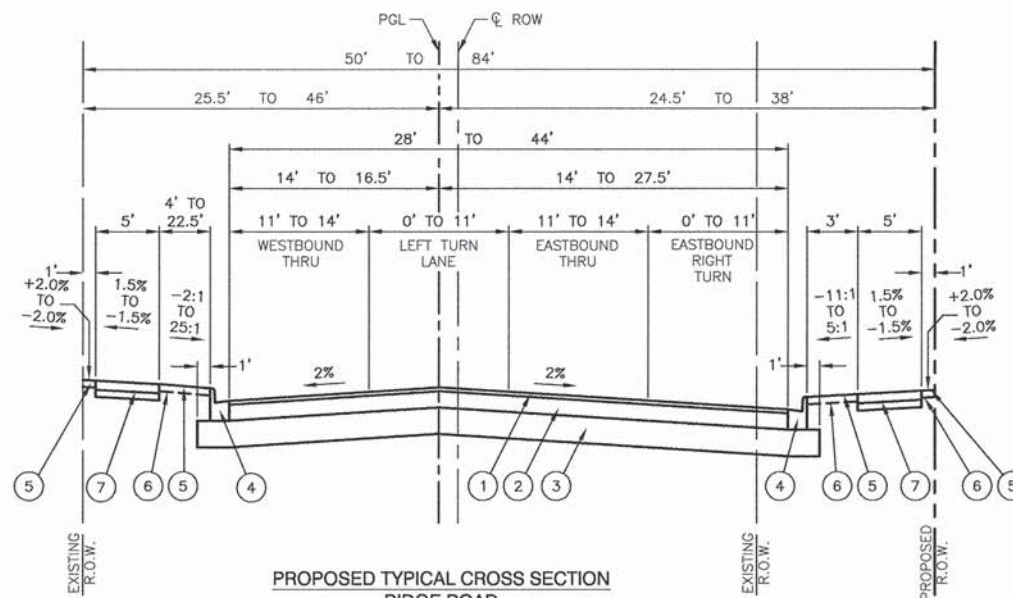
* SPECIALTY ITEM



EXISTING TYPICAL CROSS SECTION
 RIDGE ROAD
 STA 6+41.85 TO STA 9+73.03

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT, 9.5"
- (B) EXISTING PCC SIDEWALK
- (C) EXISTING CONCRETE CURB & GUTTER
- ITEMS TO BE REMOVED



PROPOSED TYPICAL CROSS SECTION
 RIDGE ROAD
 STA 6+41.85 TO STA 9+73.03

PROPOSED LEGEND

- (1) HMA SURFACE COURSE, MIX "D", N70, 2"
- (2) HMA BINDER COURSE, IL-19.0, N70, 6"
- (3) AGGREGATE SUB-GRADE IMPROVEMENT, 12"
- (4) TYPE B-6.12 COMBINATION CONCRETE CURB & GUTTER
- (5) SODDING, SALT TOLERANT
- (6) TOPSOIL, FURNISH & PLACE, 4"
- (7) PORTLAND CEMENT CONCRETE SIDEWALK, 5" WITH 4" SUB-BASE GRANULAR MATERIAL, TYPE B

EARTHWORK QUANTITIES

TOTAL CUT	=	1,203 CY
EXISTING PAVEMENT REMOVAL	=	539 CY
EXISTING TOPSOIL EXCAVATION AND PLACEMENT	=	0 CY
TOTAL AVAILABLE CUT TO FILL (EARTH EXCAVATION)	=	664 CY
TOTAL FILL	=	0 CY
CUT TO FILL (15% SHRINKAGE)	=	0 CY

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm); 2"	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 6"	4% @ 70 Gyr.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 5.25"	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

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.

FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
 RIDGE ROAD
 TYPICAL SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	9
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	HSIP-8003(848)	

FILE NAME = 07388_02-TYPX-01 - TYP1

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 08-27-15	CHECKED -- ACAD	REVISED --

SCALE: NONE SHEET NO. 9 OF 53 SHEETS STA. TO STA.

DATE PLOTTED BY: 8/27/15 10:45:00 AM

CONSTRUCTION STAGING NOTES

- BUILDING REMOVAL STAGE**
- COMPLETE REMOVAL OF BUILDING NO. 1, SEE SPECIAL PROVISIONS.

PRE-STAGE CONSTRUCTION

- RELOCATE SIGNS THROUGHOUT
- CONSTRUCT TEMPORARY BY-PASS PAVEMENT ON THE NORTH SIDE OF RIDGE ROAD STA 5+17 TO STA 9+53 (WIDTHS AS SHOWN ON THE PLANS AND TYPICAL SECTIONS).
- REMOVE EXISTING CURB AND GUTTER AND CONSTRUCT TEMPORARY BARRIER CURB ON THE NORTH SIDE OF RIDGE ROAD STA 5+17 TO STA 9+53
- TEMPORARILY EXTEND THE EXISTING 8" LATERAL AT STA 7+58 TO THE EDGE OF TEMPORARY BY-PASS PAVEMENT. CONNECT TO NEW CATCH BASIN WITH TYPE 11 FRAME AND GRATE.

PRE-STAGE TRAFFIC CONTROL

- THE WORK TO BE DONE IN THIS PHASE SHALL BE DONE USING HIGHWAY STANDARDS 701006-05, 701301-04, 701501-06.

STAGE I CONSTRUCTION

- CONSTRUCT THE SOUTH SIDE OF RIDGE ROAD PAVEMENT STORM SEWER AND SIDEWALK.
- CONSTRUCT TEMPORARY BY-PASS PAVEMENT ON THE SOUTH SIDE OF RIDGE ROAD STA 4+68 TO STA 7+06 (WIDTHS AS SHOWN ON THE PLANS AND TYPICAL SECTIONS).
- REMOVE EXISTING CURB AND GUTTER STA 4+68 TO STA 7+06 AND SIDEWALK STA 5+68 TO STA 7+06
- CONSTRUCT TEMPORARY BARRIER CURB ON THE SOUTH SIDE OF RIDGE ROAD STA 4+68 TO STA 7+06
- TEMPORARILY EXTEND THE EXISTING 8" LATERAL FROM THE EXISTING CATCH BASIN AT STA 6+18 TO THE EDGE OF TEMPORARY BY-PASS PAVEMENT. CONNECT TO NEW CATCH BASIN WITH TYPE 11 FRAME AND GRATE. TEMPORARILY REPLACE THE LID OF THE EXISTING CATCH BASIN WITH A CLOSED LID.
- THE WEST EDGE LINE OF TORRENCE AVENUE AND THE SOUTH EDGE LINE OF RIDGE ROAD SHALL BE PROTECTED BY TYPE II BARRICADES OR DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHTS.
- THE NORTH SIDEWALK OF RIDGE ROAD SHALL BE PROTECTED BY TYPE II BARRICADES OR DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHTS.

STAGE I TRAFFIC CONTROL

- REMOVE EXISTING PAVEMENT MARKINGS AND PLACE TEMPORARY MARKINGS AND SIGNS AS SHOWN ON THE STAGE I STAGING PLANS.
- MAINTAIN TWO-WAY TRAFFIC ALONG RIDGE ROAD ALLOWING 2-10' TRAFFIC LANES USING THE NORTH SIDE EXISTING PAVEMENT AND TEMPORARY BY-PASS PAVEMENT.
- MAINTAIN PEDESTRIAN TRAFFIC ALONG RIDGE ROAD USING THE NORTH SIDE EXISTING SIDEWALK.

STAGE II CONSTRUCTION

- CONSTRUCT THE NORTH SIDE OF RIDGE ROAD PAVEMENT AND STORM SEWER.
- THE NORTH EDGE LINE OF RIDGE ROAD SHALL BE PROTECTED BY TYPE II BARRICADES OR DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHTS.

STAGE II TRAFFIC CONTROL

- REMOVE EXISTING PAVEMENT MARKINGS AND PLACE TEMPORARY MARKINGS AND SIGNS SHOWN ON THE STAGE II STAGING PLANS.
- MAINTAIN TWO-WAY TRAFFIC ALONG RIDGE ROAD ALLOWING 2-10' MINIMUM TRAFFIC LANES USING THE SOUTH SIDE PROPOSED AND TEMPORARY BY-PASS PAVEMENT.
- MAINTAIN PEDESTRIAN TRAFFIC ALONG RIDGE ROAD USING THE NORTH SIDE EXISTING SIDEWALK.

STAGE III CONSTRUCTION

- REMOVE TEMPORARY BY-PASS PAVEMENT ON THE SOUTH SIDE OF RIDGE ROAD STA 4+68 TO STA 7+06
- CONSTRUCT THE PERMANENT PAVEMENT AND CURB AND GUTTER ON THE SOUTH SIDE OF RIDGE ROAD STA 4+68 TO STA 7+06
- CONSTRUCT THE PERMANENT PAVEMENT AT THE INTERSECTION OF RIDGE ROAD AND TORRENCE AVENUE STA 9+64 TO STA 9+73
- CONSTRUCT SIDEWALK ON THE SOUTH SIDE OF RIDGE ROAD STA 5+68 TO STA 7+06
- REMOVE TEMPORARY 10" LATERAL AND CATCH BASIN STA 6+18. INSTALL T11 FRAME AND GRATE ON EXISTING CATCH BASIN.

STAGE III TRAFFIC CONTROL

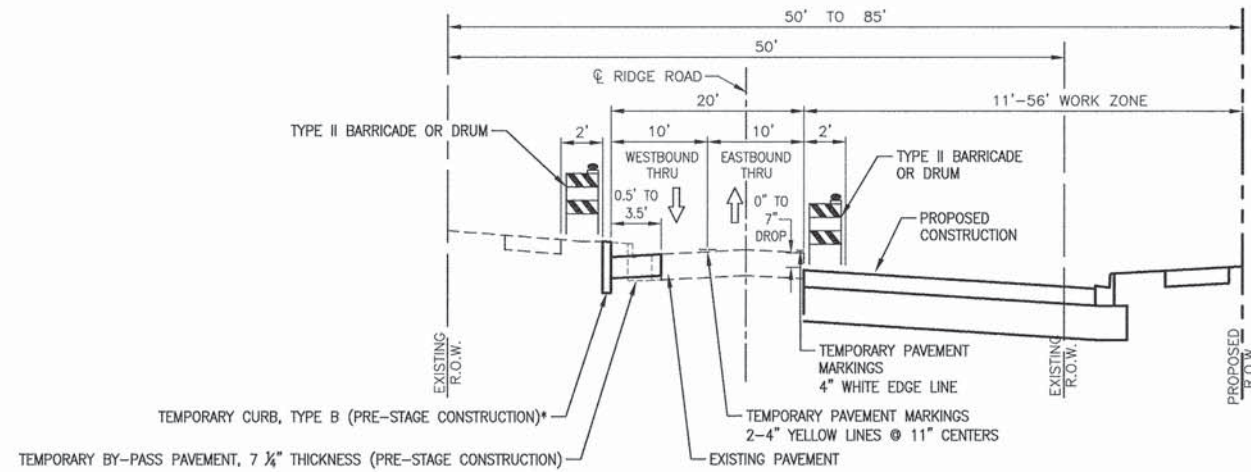
- THE WORK TO BE DONE IN THIS PHASE SHALL BE DONE USING HIGHWAY STANDARDS 701006-05, 701301-04, 701501-06, 701801-05.

STAGE IV CONSTRUCTION

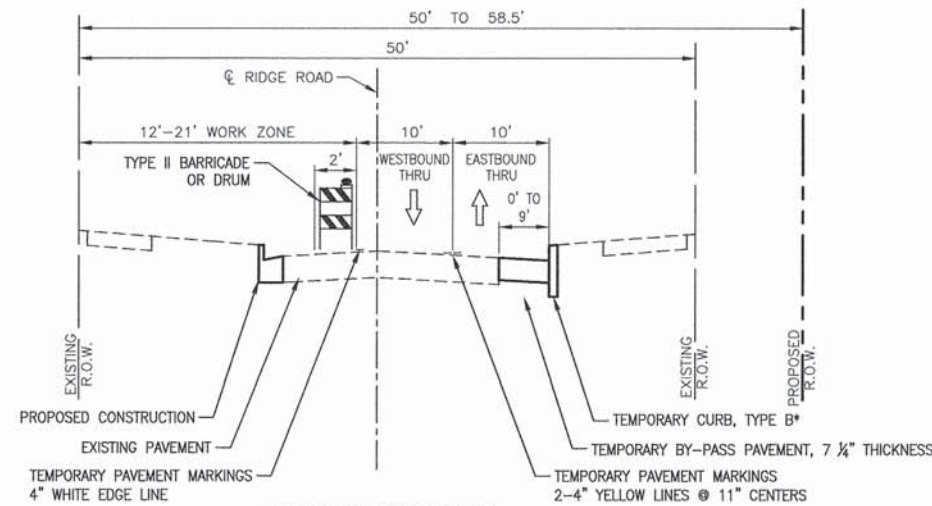
- REMOVE AND REPLACE SIDEWALK THE NORTH SIDE OF RIDGE ROAD STA 6+45 TO STA 9+71.

STAGE IV TRAFFIC CONTROL

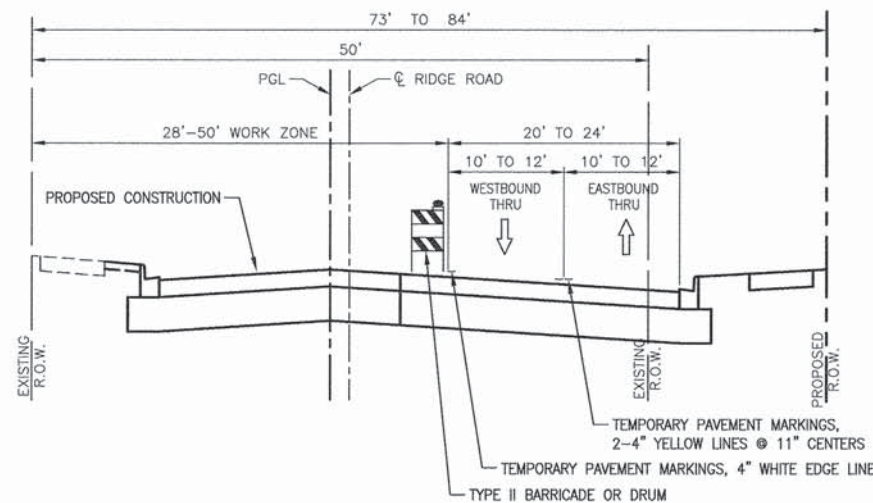
- THE WORK TO BE DONE IN THIS PHASE SHALL BE DONE USING HIGHWAY STANDARDS 701006-05, 701701-09 AND 701801-05.



**TYPICAL CROSS SECTION
STAGE I
RIDGE ROAD: STA 5+17 TO STA 9+73.03**



**TYPICAL CROSS SECTION
STAGE II
RIDGE ROAD: STA 4+68 TO STA 7+06**



**TYPICAL CROSS SECTION
STAGE II
RIDGE ROAD: STA 7+06 TO STA 9+73.03**

NOTE:
TEMPORARY CURB SHALL BE PAID PER FOOT FOR "CONCRETE CURB, TYPE B."
TEMPORARY CURB REMOVAL SHALL BE PAID PER FOOT FOR "CURB REMOVAL"

FILE NAME = 07398_02-TC0N-01 - T-01

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

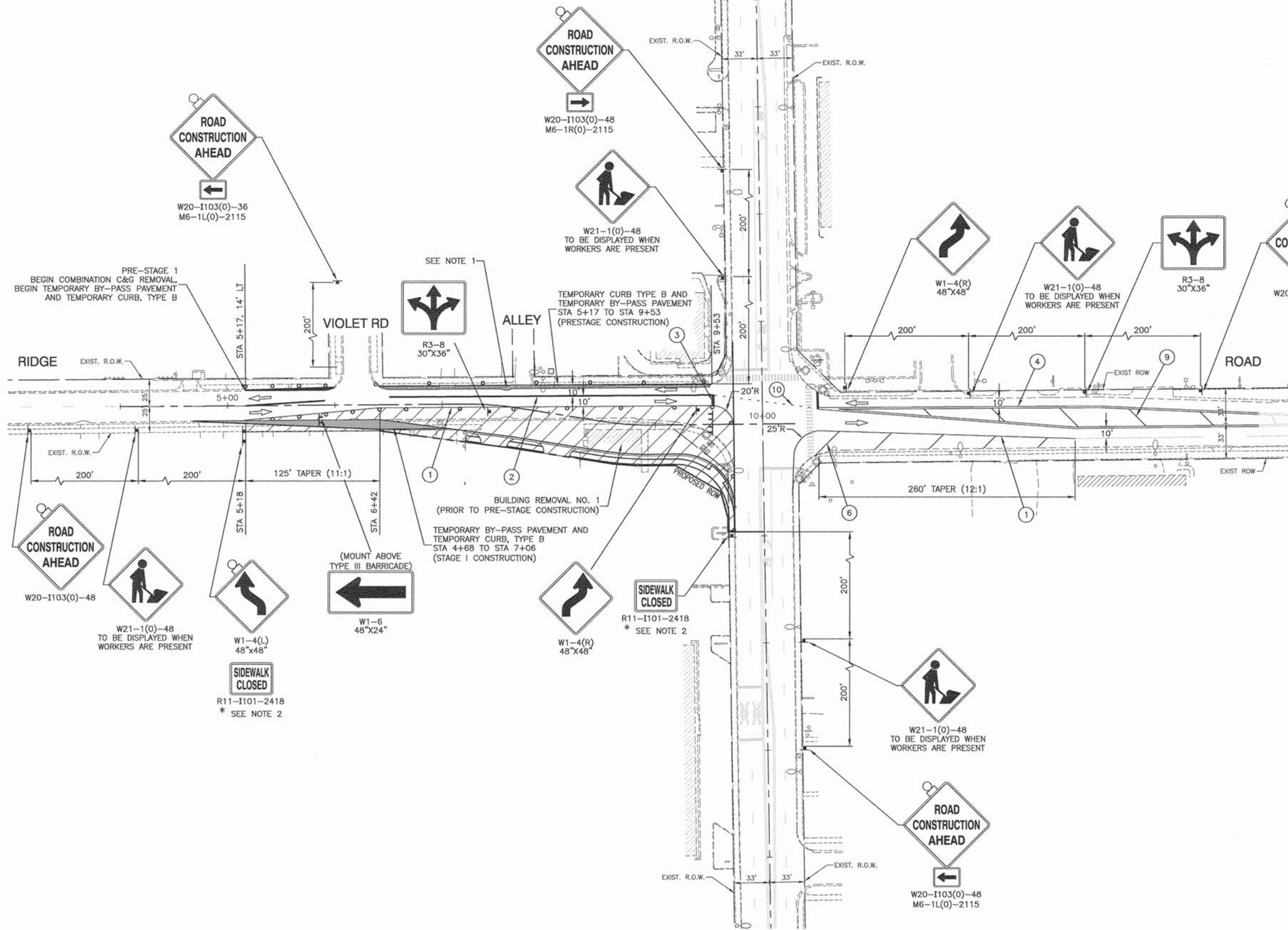
**IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
CONSTRUCTION STAGING**

SCALE: NONE SHEET NO. 10 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1821	07-00185-00-TL	COOK	53	10
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT HSIP-8003(B48)		

CONTRACT NO. 61B76

TORRENCE AVE.



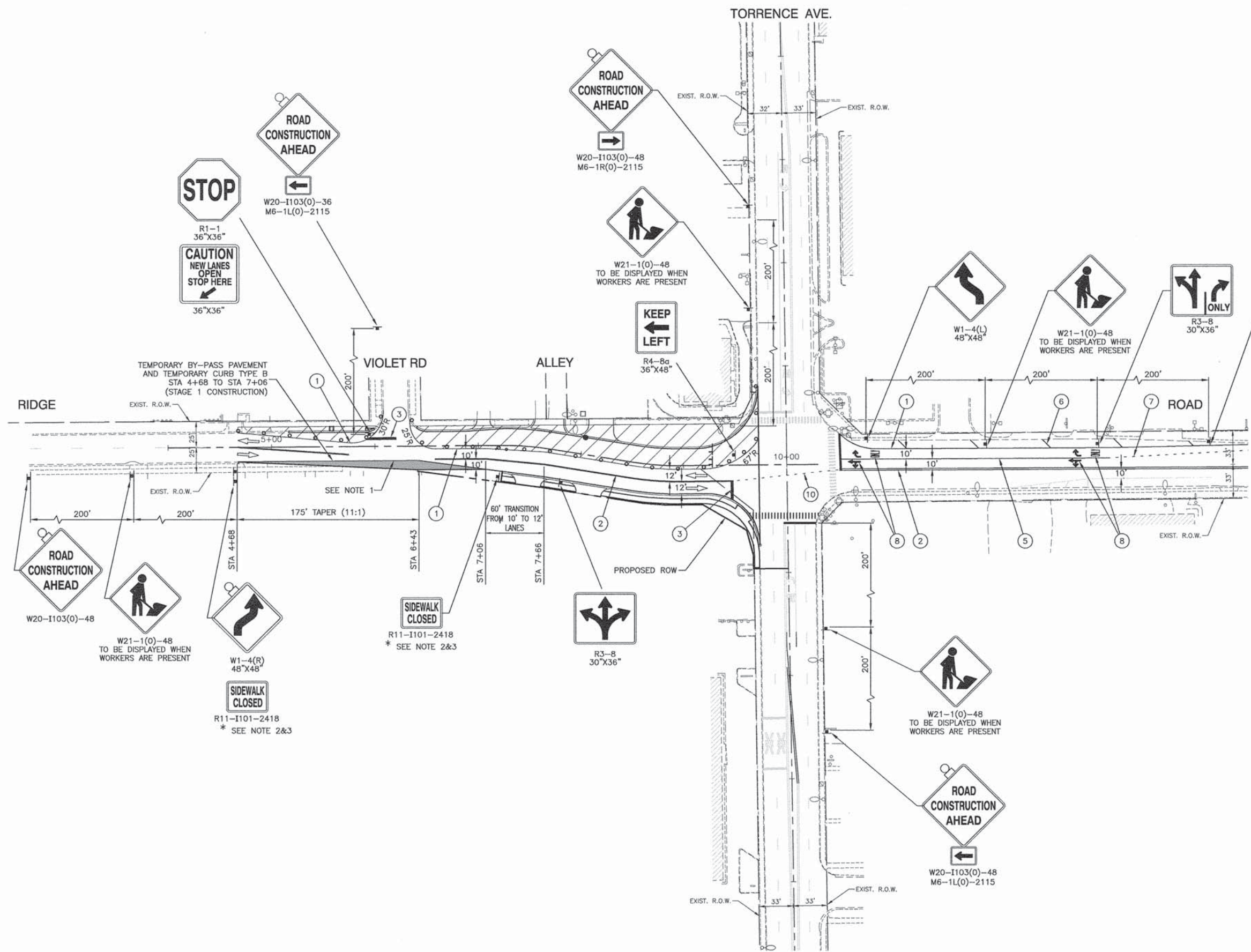
LEGEND

- ① 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ② 4" DOUBLE YELLOW CENTERLINE (11" C-C) - TEMPORARY PAVEMENT MARKINGS
 - ③ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
 - ④ 4" DOUBLE YELLOW MEDIAN OUTLINE - TEMPORARY PAVEMENT MARKINGS
 - ⑤ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
 - ⑥ 12" WHITE DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑦ 6" WHITE SKIP DASH (2' LINE - 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - ⑧ LETTERS AND SYMBOLS - TEMPORARY PAVEMENT MARKINGS
 - ⑨ 12" YELLOW DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑩ 4" YELLOW SKIP DASH (2' LINE - 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
- WORK AREA
 - TEMPORARY PAVEMENT TO BE CONSTRUCTED
 - TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (50' C-C IN TANGENTS AND 20' C-C IN TAPERS AND CURVES)
 - SIGN
 - TYPE III BARRICADE
 - TRAFFIC FLOW

NOTES:

1. EXTEND THE EXISTING STORM LATERAL AT STA. 7+58 TO THE EDGE OF TEMPORARY BY-PASS PAVEMENT. CONNECT TO NEW CATCH BASIN WITH TYPE 11 FRAME AND GRATE TO ALLOW DRAINAGE DURING STAGE I.
2. SIDEWALK CLOSURE SHALL BE SIGN POSTED IN ACCORDANCE WITH HIGHWAY STANDARD 701801.
3. TEMPORARY TRAFFIC SIGNALS SHALL BE SPLIT-PHASED FOR SINGLE ENTRY ONLY ON EAST AND WEST LEGS DURING CONSTRUCTION STAGES I THROUGH STAGE III.

FILE NAME = 07398_02-TCON-02 - PHASE-1	USER NAME =	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 83 / TORRENCE AVENUE AT RIDGE ROAD CONSTRUCTION STAGING - STAGE 1		F.A.U. RTE. 1621	SECTION 07-00165-00-TL	COUNTY COOK	TOTAL SHEETS 53	SHEET NO. 11	
	PLOT SCALE =	CHECKED - PB	REVISED -		SCALE: 1"=50'		SHEET NO. 11 OF 53 SHEETS		STA. TO STA.	CONTRACT NO. 61B76		
	PLOT DATE = 08-27-15	DRAWN - ACAD	REVISED -								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)	
		CHECKED - ACAD	REVISED -									



- LEGEND**
- ① 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ② 4" DOUBLE YELLOW CENTERLINE (11" C-C) - TEMPORARY PAVEMENT MARKINGS
 - ③ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
 - ④ 4" DOUBLE YELLOW MEDIAN OUTLINE - TEMPORARY PAVEMENT MARKINGS
 - ⑤ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
 - ⑥ 12" WHITE DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑦ 6" WHITE SKIP DASH (2' LINE - 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - ⑧ LETTERS AND SYMBOLS - TEMPORARY PAVEMENT MARKINGS
 - ⑨ 12" YELLOW DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑩ 4" YELLOW SKIP DASH (2' LINE - 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
- WORK AREA
 - TEMPORARY PAVEMENT TO BE CONSTRUCTED
 - TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (50' C-C IN TANGENTS AND 20' C-C IN TAPERS AND CURVES)
 - SIGN
 - TYPE III BARRICADE
 - TRAFFIC FLOW

- NOTES:**
1. EXTEND THE EXISTING STORM LATERAL AT STA. 7+58 TO THE EDGE OF TEMPORARY BY-PASS PAVEMENT. CONNECT TO NEW CATCH BASIN WITH TYPE 11 FRAME AND GRATE TO ALLOW DRAINAGE DURING STAGE I.
 2. SIDEWALK CLOSURE SHALL BE SIGN POSTED IN ACCORDANCE WITH HIGHWAY STANDARD 701801.
 3. TEMPORARY TRAFFIC SIGNALS SHALL BE SPLIT-PHASED FOR SINGLE ENTRY ONLY ON EAST AND WEST LEGS DURING CONSTRUCTION STAGES I THROUGH STAGE III.

FILE NAME = 0798_02-TCOV-03 - PHASE-2

USER NAME =	DESIGNED - EA	REVISED -
	CHECKED - PB	REVISED -
PLOT SCALE =	DRAWN - ACAD	REVISED -
PLOT DATE = 08-27-15	CHECKED - ACAD	REVISED -

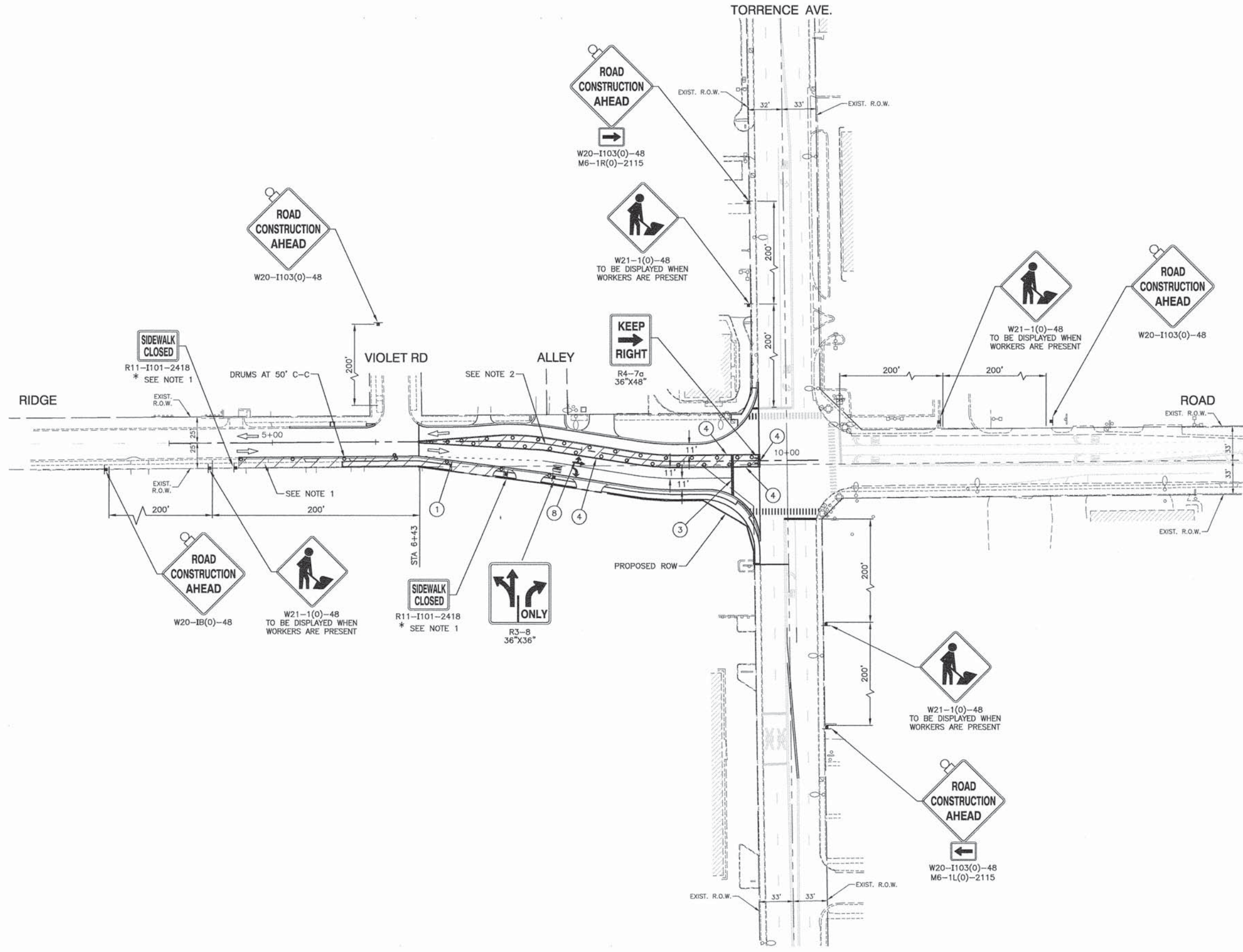
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
CONSTRUCTION STAGING - STAGE 2**

SCALE: 1"=50' SHEET NO. 12 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	12
CONTRACT NO. 61B76			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-6003(948)	

TORRENCE AVE.



LEGEND

- ① 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ② 4" DOUBLE YELLOW CENTERLINE (11" C-C) - TEMPORARY PAVEMENT MARKINGS
 - ③ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
 - ④ 4" DOUBLE YELLOW MEDIAN OUTLINE - TEMPORARY PAVEMENT MARKINGS
 - ⑤ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
 - ⑥ 12" WHITE DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑦ 6" WHITE SKIP DASH (2' LINE - 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - ⑧ LETTERS AND SYMBOLS - TEMPORARY PAVEMENT MARKINGS
 - ⑨ 12" YELLOW DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑩ 4" YELLOW SKIP DASH (2' LINE - 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
- WORK AREA
 - TEMPORARY PAVEMENT TO BE CONSTRUCTED
 - TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (50' C-C IN TANGENTS AND 20' C-C IN TAPERS AND CURVES)
 - SIGN
 - TYPE III BARRICADE
 - TRAFFIC FLOW

NOTES:

1. EXTEND THE EXISTING STORM LATERAL AT STA. 7+58 TO THE EDGE OF TEMPORARY BY-BASS PAVEMENT. CONNECT TO NEW CATCH BASIN WITH TYPE 11 FRAME AND GRATE TO ALLOW DRAINAGE DURING STAGE I.
2. SIDEWALK CLOSURE SHALL BE SIGN POSTED IN ACCORDANCE WITH HIGHWAY STANDARD 701801.
3. TEMPORARY TRAFFIC SIGNALS SHALL BE SPLIT-PHASED FOR SINGLE ENTRY ONLY ON EAST AND WEST LEGS DURING CONSTRUCTION STAGES I THROUGH STAGE III.

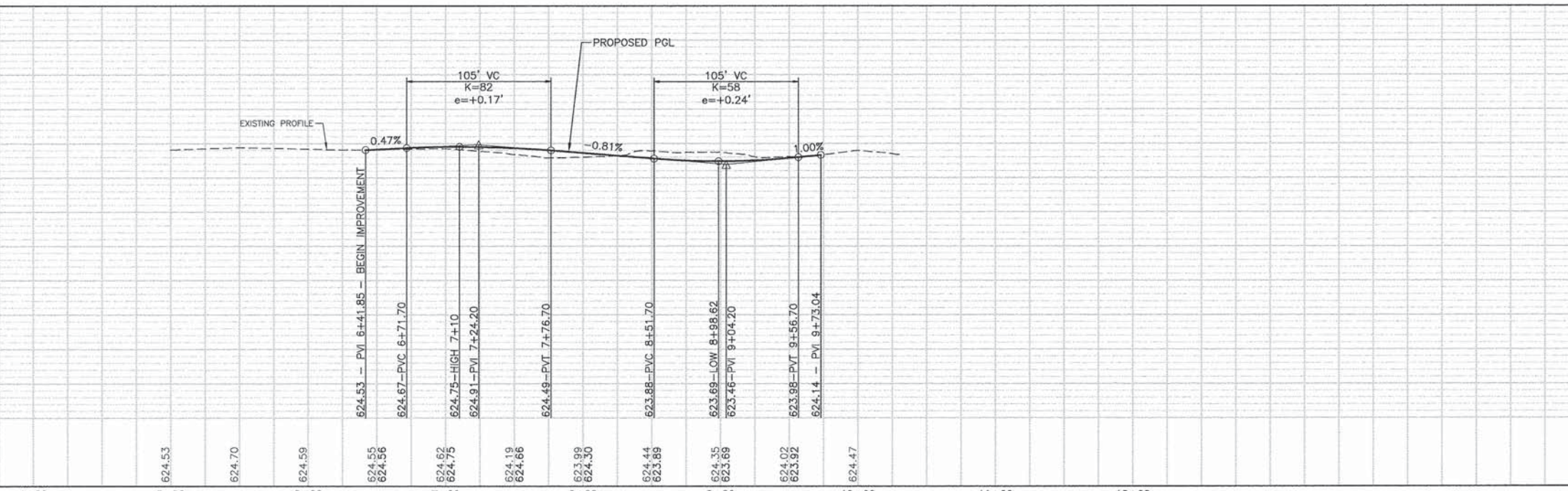
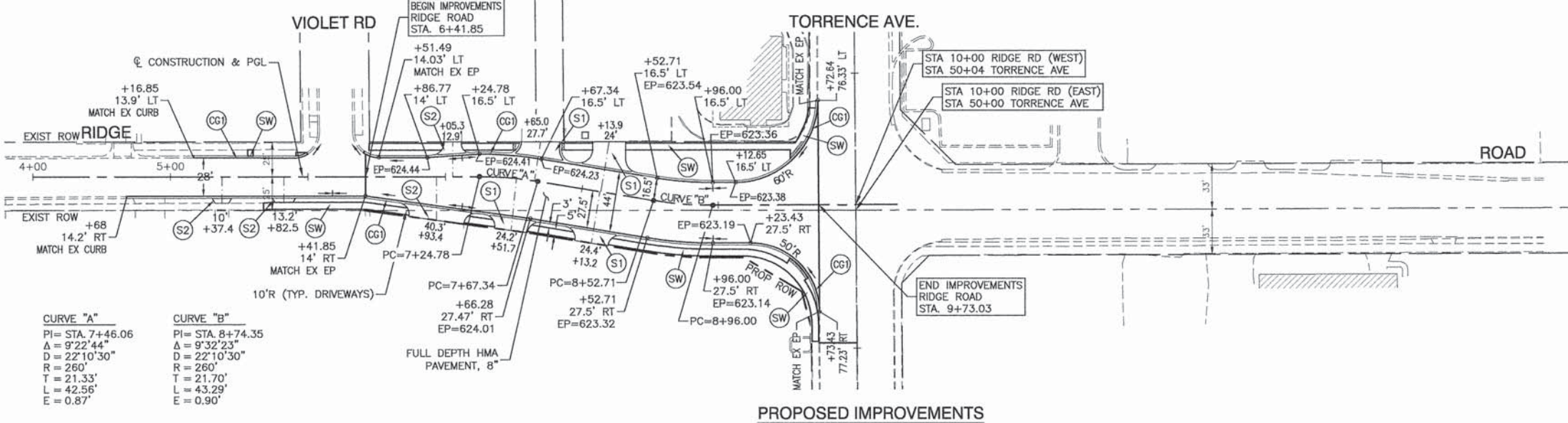
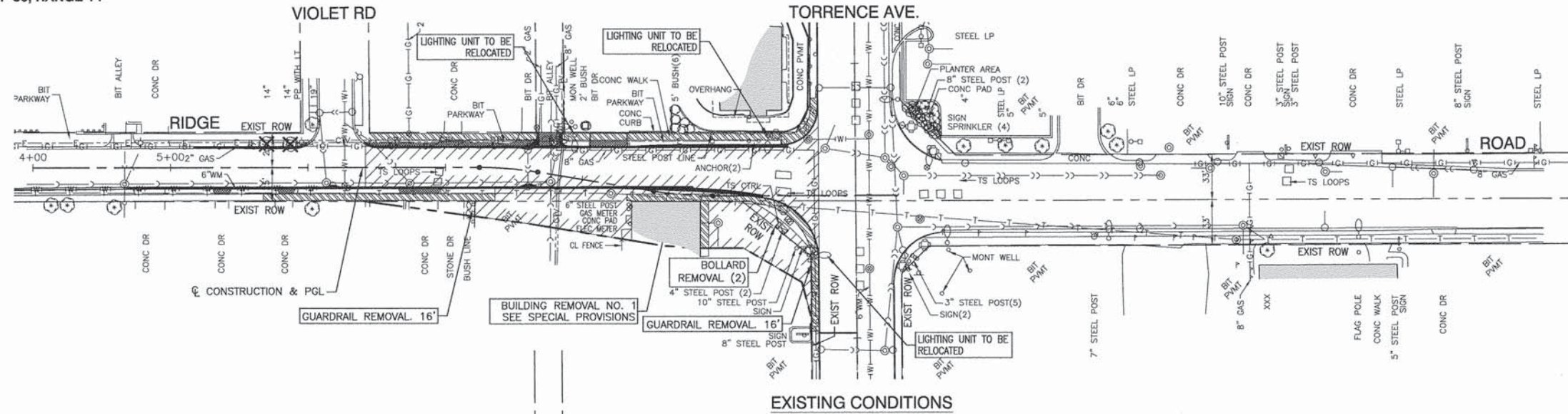
FILE NAME = 07398_02-TCON-04 - PHASE-3

USER NAME =	DESIGNED - EA	REVISED -
	CHECKED - PB	REVISED -
PLOT SCALE =	DRAWN - ACAD	REVISED -
PLOT DATE = 08-27-15	CHECKED - ACAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
CONSTRUCTION STAGING - STAGE 3
SCALE: 1"=50'
SHEET NO. 13 OF 53 SHEETS
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	13
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(B48)				



LEGEND

- ⊗ TREE TO BE REMOVED
- CONC CURB AND GUTTER REMOVAL
- ▨ PAVEMENT REMOVAL
- ▧ SIDEWALK REMOVAL
- ▩ DRIVEWAY REMOVAL
- ⊘ DETECTABLE WARNING (S.F.)
- ⊙(SW) PCC SIDEWALK, 5"
- ⊙(S1) PCC DRIVEWAY, 8" (COMMERCIAL ENTRANCES) AGGREGATE BASE COURSE, TYPE B, 4"
- ⊙(S2) PCC DRIVEWAY, 6" (PRIVATE ENTRANCES) AGGREGATE BASE COURSE, TYPE B, 4"
- ⊙(CG) C & G TYPE B-6.12



BENCH MARK:

BENCHMARK: 20, N.W. H BOLT OF HYDRANT N.E. CORNER 184TH ST. & TORRENCE AVENUE. NGVD 29 ELEVATION=619.53

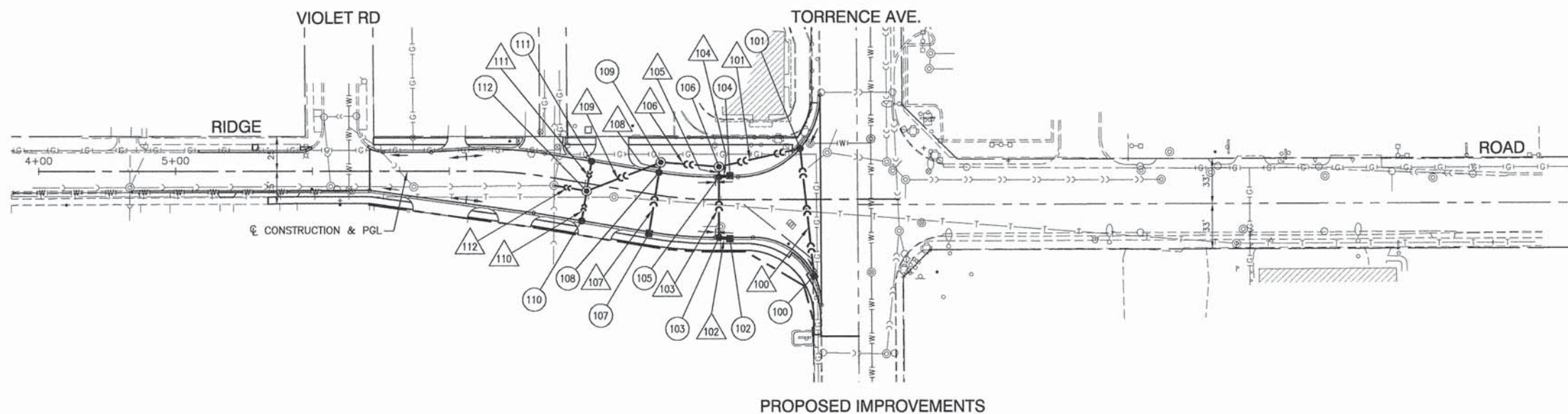
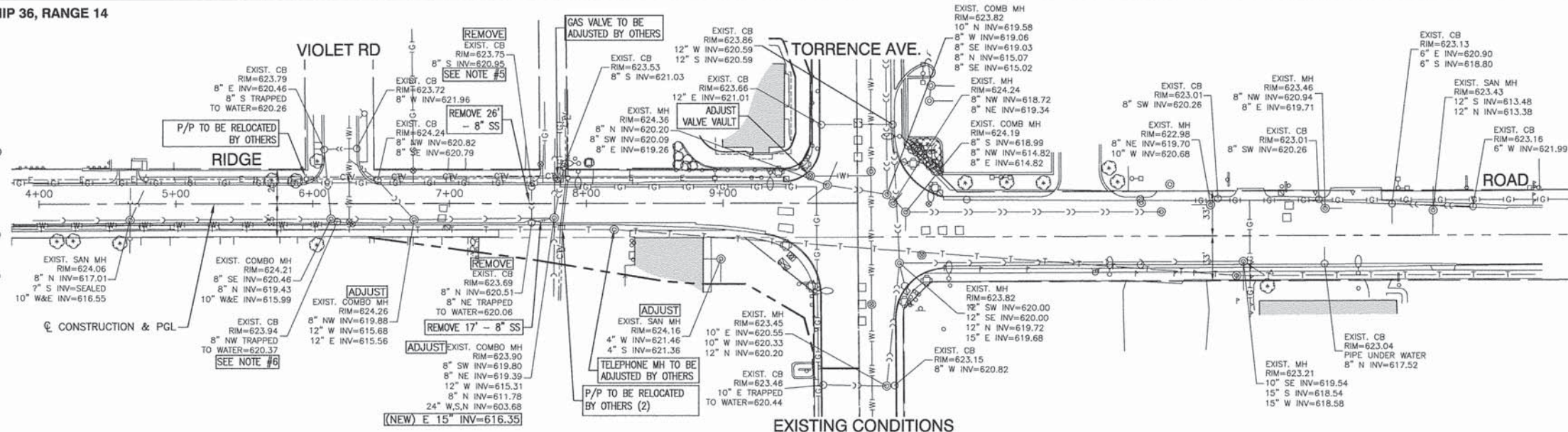
BENCHMARK: 67, N.W. H. BOLT OF A HYDRANT N.E. CORNER OF 184TH ST. & GLEN OAK. NGVD 29 ELEV=618.25

DATE	BY
DATE	BY
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DATE	BY
DATE	BY
DATE	BY

SECTION 36, TOWNSHIP 36, RANGE 14

- 100 93'-12" RCP SST2 @ 1.00% (22.4)
- 101 61'-12" RCP SST2 @ 1.00% (2.9)
- 102 8'-12" RCP SST2 @ 1.00% (1.5)
- 103 44'-12" RCP SST2 @ 1.00% (9.9)
- 104 8'-12" RCP SST2 @ 1.00% (1.5)
- 105 8'-12" RCP SST2 @ 1.00% (2.7)
- 106 47'-12" RCP SST2 @ 1.00% (0.0)
- 107 44'-12" RCP SST2 @ 1.00% (9.6)
- 108 8'-12" RCP SST2 @ 1.00% (2.7)
- 109 58'-12" RCP SST2 @ 1.00% (45.2)
- 110 22'-12" RCP SST2 @ 1.00% (4.8)
- 111 22'-12" RCP SST2 @ 1.00% (4.6)
- 112 25'-15" RCP SST2 @ 1.00% (22.9)



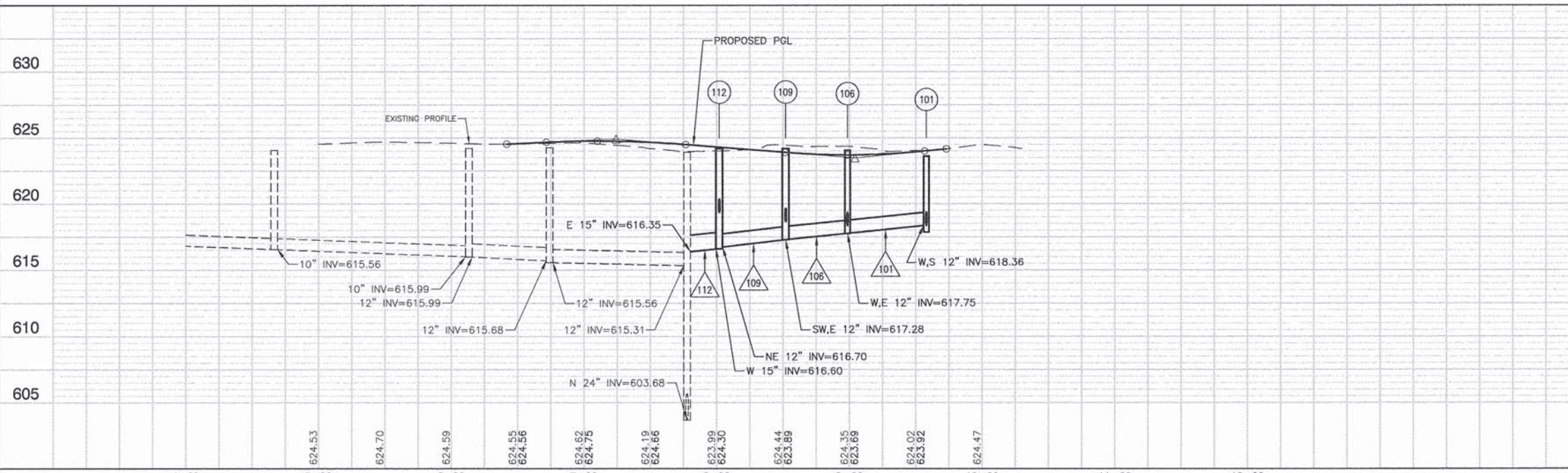
PROPOSED IMPROVEMENTS

- 100 STA 9+68, 54.85' RT INLET TA, T11 F&G RIM EL=623.50 N 12" INV=619.33
- 101 STA 9+58, 37.22' LT CB TA, 4' DIA T11 F&G RIM EL=623.61 S 12" INV=618.36 W 12" INV=618.36
- 102 STA 9+06.62, 27.5' RT INLET TA, T11 F&G RIM EL=623.15 W 12" INV=618.98
- 103 STA 8+98.62, 27.5' RT CB TA, 4' DIA T11 F&G RIM EL=623.14 E 12" INV=618.90 N 12" INV=618.90
- 104 STA 9+06.62, 16.5' LT INLET TA, T11 F&G RIM EL=623.37 W 12" INV=619.20
- 105 STA 8+98.62, 16.5' LT CB TA, 4' DIA T11 F&G RIM EL=623.36 E 12" INV=619.12 S 12" INV=618.46 N 12" INV=618.46
- 106 STA 8+98.62, 24' LT MH TA, 4' DIA, T1F CL RIM EL=624.06 S 12" INV=618.38 E 12" INV=617.75 W 12" INV=617.75
- 107 STA 8+52, 27.5' RT INLET TA, T11 F&G RIM EL=623.33 N 12" INV=619.16
- 108 STA 8+52, 16.5' LT CB TA, 4' DIA T11 F&G RIM EL=623.55 S 12" INV=618.72 N 12" INV=618.72
- 109 STA 8+52, 24' LT MH TA, 5' DIA, T1F CL RIM EL=624.18 S 12" INV=618.64 E 12" INV=617.28 SW 12" INV=617.28
- 110 STA 8+02, 27.5' RT CB TA, 4' DIA T11 F&G RIM EL=623.73 N 12" INV=619.56
- 111 STA 8+02, 16.5' LT CB TA, 4' DIA T11 F&G RIM EL=623.95 S 12" INV=619.78
- 112 STA 8+02, 5.5' RT MH TA, 5' DIA, T1F CL RIM EL=624.17 S 12" INV=619.34 N 12" INV=619.56 NE 12" INV=616.70 W 15" INV=616.60

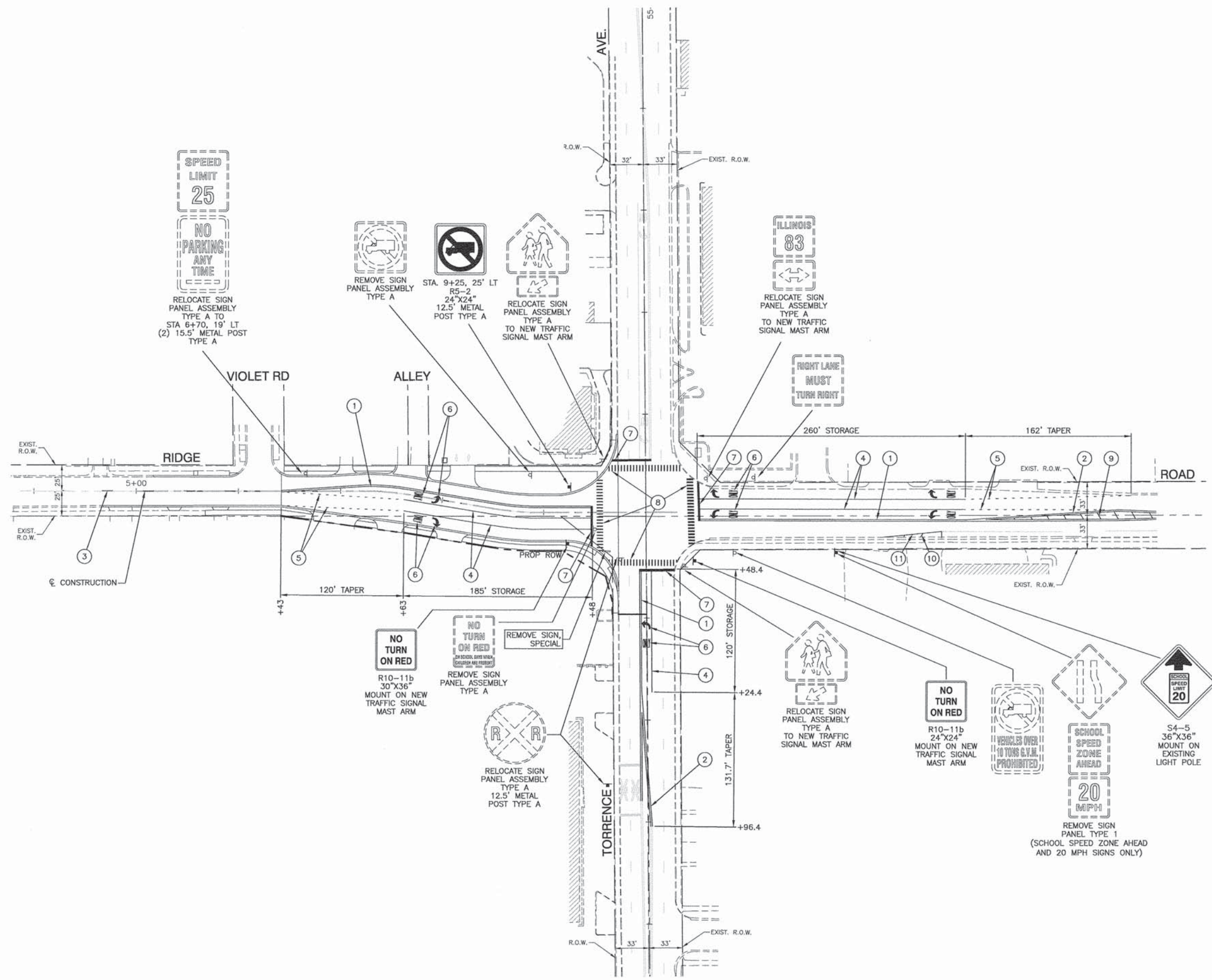


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PLANNED	
DESIGNED	
CHECKED	
NOTED	



- NOTES:**
- ALL RIM ELEVATIONS OF STRUCTURES IN THE PROPOSED CURB LINE ARE GIVEN TO THE EDGE OF PAVEMENT. ALL OTHER RIM ELEVATIONS ARE GIVEN TO THE CENTER OF STRUCTURES. ALL CALL-OUTS REFERENCE THE CENTERLINE OF CONSTRUCTION.
 - ALL STORM SEWERS REQUIRE WATER MAIN QUALITY RUBBER GASKETS.
 - TRENCH BACKFILL SHALL BE FA-6 ONLY AND MEASURED ACCORDING TO SECTION 208.03 OF THE STANDARD SPECIFICATIONS (IDOT METHOD)
 - CONNECTIONS TO EXISTING STRUCTURES CONSIDERED INCLUDED IN THE COST OF THE STORM SEWER.
 - QUANTITIES HAVE BEEN PROVIDED TO TEMPORARILY EXTEND THE EXISTING 8" LATERAL TO THE EDGE OF STAGE I. TEMPORARY BY-PASS PAVEMENT AND CONNECT TO NEW CATCH BASIN WITH TYPE 11 FRAME & GRATE.
 - QUANTITIES HAVE BEEN PROVIDED TO TEMPORARILY EXTEND THE EXISTING 8" LATERAL FROM THE EXISTING CATCH BASIN TO THE EDGE OF STAGE II TEMPORARY BY-PASS PAVEMENT AND CONNECT TO NEW CATCH BASIN WITH TYPE 11 FRAME & GRATE AND TO TEMPORARILY ADJUST THE EXISTING CATCH BASIN WITH TYPE 1 FRAME, CLOSED LID.
- BENCH MARK:**
 BENCHMARK: 20, N.W. H BOLT OF HYDRANT N.E. CORNER 184TH ST. & TORRENCE AVENUE. NGVD 29 ELEVATION=619.53
 BENCHMARK: 67, N.W. H. BOLT OF A HYDRANT N.E. CORNER OF 184TH ST. & GLEN OAK. NGVD 29 ELEV=618.25



- LEGEND**
- ① 4" DOUBLE YELLOW CENTERLINE (11" C/C)
 - ② 4" DOUBLE YELLOW MEDIAN OUTLINE (11" C/C)
 - ③ 4" YELLOW SKIP DASH (10' LINE, 30' SPACE)
 - ④ 6" WHITE LANE LINE
 - ⑤ 6" WHITE SKIP DASH (2' LINE, 6' BLANK)
 - ⑥ WHITE LETTERS & SYMBOLS
 - ⑦ 24" WHITE STOP BAR
 - ⑧ 12" WHITE LINES (3' C/C)
 - ⑨ 12" YELLOW DIAGONAL
 - ⑩ 12" WHITE DIAGONAL
 - ⑪ 4" WHITE EDGE LINE
- ▬ PROPOSED SIGN

FILE NAME = 07398_02-PMKG-01 - P01

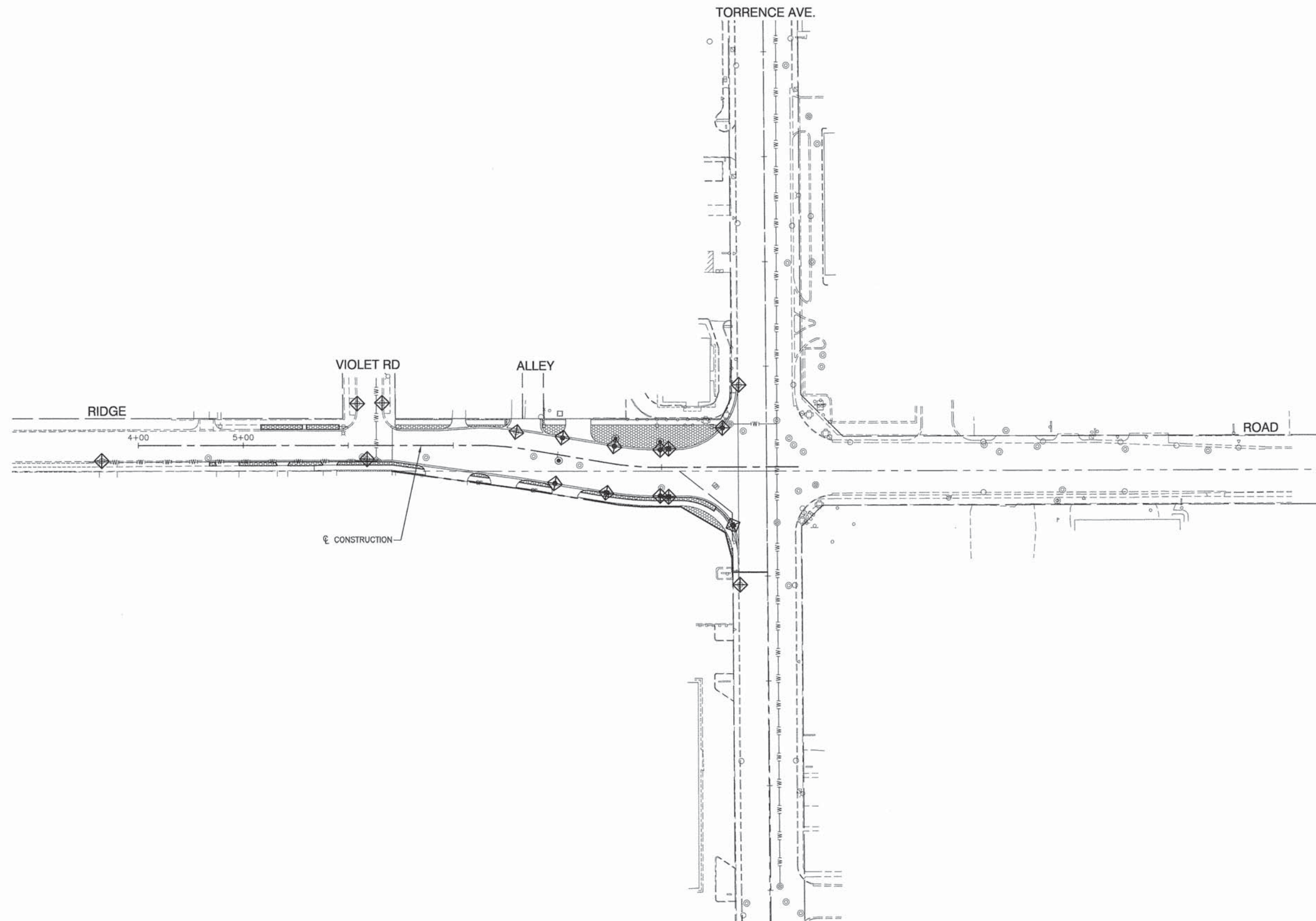
USER NAME =	DESIGNED — EA	REVISED —
	CHECKED — PB	REVISED —
PLOT SCALE =	DRAWN — JJB	REVISED —
PLOT DATE = 08-27-15	CHECKED — EA	REVISED —

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
PAVEMENT MARKING AND SIGNING**

SCALE: 1"=50' SHEET NO. 16 OF 53 SHEETS STA. TO STA.





F.A.U. RTE. 1621	SECTION 07-00165-00-TL	COUNTY COOK	TOTAL SHEETS 53	SHEET NO. 16
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT HSIP-8003(848)	



PROPOSED IMPROVEMENTS

NOTE:
 1. EXISTING TOPSOIL ON SITE SHALL BE EXCAVATED AND STOCKPILED AT A LOCATION TO BE APPROVED BY THE ENGINEER FOR RE-USE AND PLACEMENT AT LOCATIONS SHOWN ON THE PLANS.

LEGEND

-  DRAINAGE FLOW ARROWS
-  PERIMETER EROSION BARRIER (TO BE PLACED 1' FROM RIGHT OF WAY)
-  INLET FILTER
-  SODDING, SALT TOLERANT; TOPSOIL, 4"

FILE NAME = 07398_02-LNSC-02 - P01

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

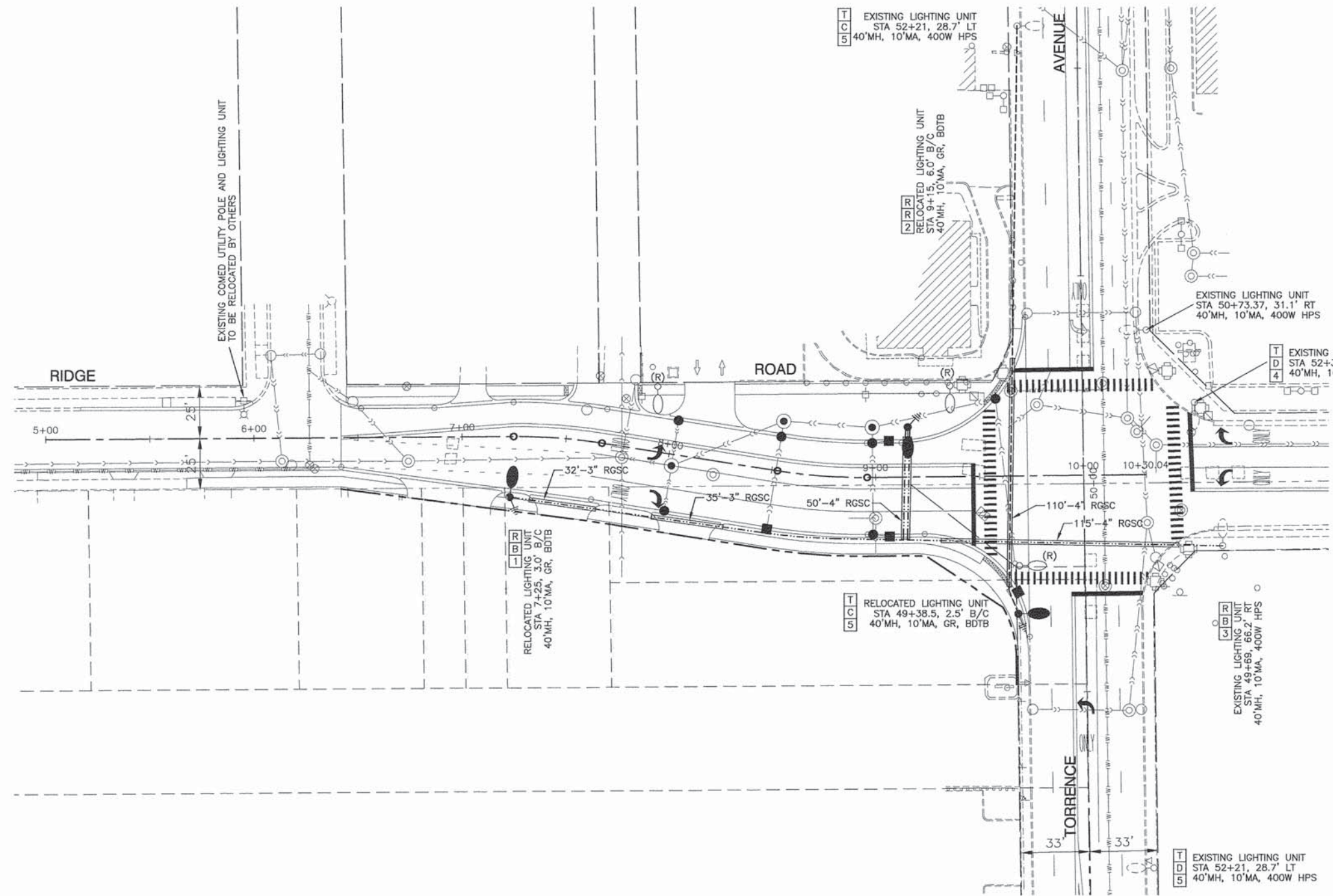
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
 RIDGE ROAD
 LANDSCAPING AND EROSION CONTROL PLAN

SCALE: 1"=50' SHEET NO. 17 OF 53 SHEETS STA. TO STA.

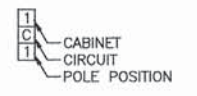
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	17
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				

DATE PLOTTED BY: 08/27/15 10:48 AM
 PLOTTED BY: RICHARD EGGERS (261438)



- LEGEND:**
- EXISTING RIDGE ROAD STREET LIGHT SYSTEM
 - RELOCATED RIDGE ROAD SYSTEM STREET LIGHT - 400W HPS
 - PROPOSED CONTROLLER
 - - - EXISTING UNIT DUCT
 - UNDERGROUND CONDUIT, GALVANIZED STEEL (GSC)
 - PROPOSED UNIT DUCT, 2-1/C, NO.6 AWG AND NO.6 AWG GROUND, 600V IN 1" DIAMETER POLYETHYLE DUCT (TORRENCE AVE)
 - PROPOSED UNIT DUCT, 5-1/C, NO.4 AWG AND NO.6 AWG GROUND, 600V IN 1 1/2" DIAMETER POLYETHYLE DUCT (RIDGE RD)
 - SERVICE WIRE, 3-1/C, NO. 1/0 AWG.
 - ⊗ GR GROUND ROD, 5/8" DIA. x 10'
 - (R) RELOCATE EXISTING STREET LIGHT
 - MH MOUNTING HEIGHT
 - MA MAST ARM
 - B/C BACK OF CURB
 - BDTB BREAKAWAY DEVICE, TRANSFORMER BASE

POLE IDENTIFICATION



FILE NAME = 07390_02-LGHT-01 - LIGHT-P1

USER NAME =	DESIGNED — EA	REVISED —
	CHECKED — PB	REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 08-27-15	CHECKED — ACAD	REVISED —

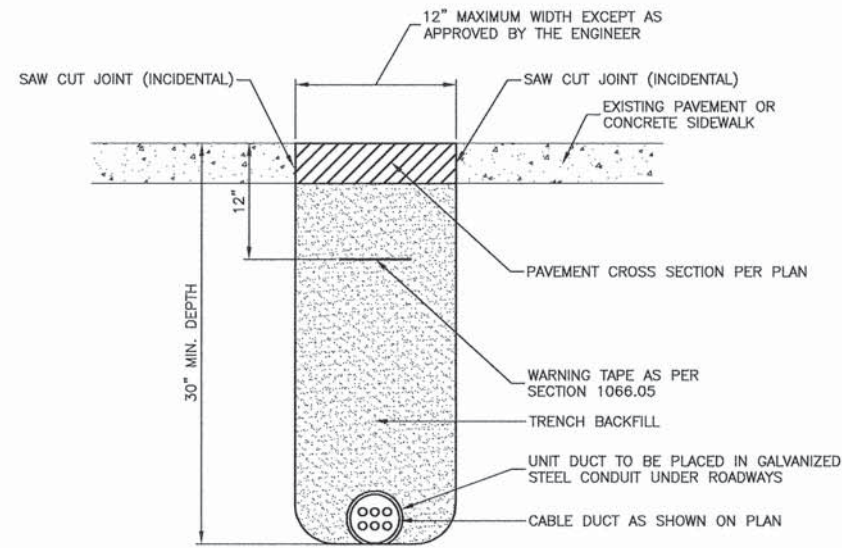
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 83 / TORRENCE AVENUE AT RIDGE ROAD STREET LIGHTING PLANS	
SCALE: 1"=30'	SHEET NO. 18 OF 53 SHEETS
STA.	TO STA.

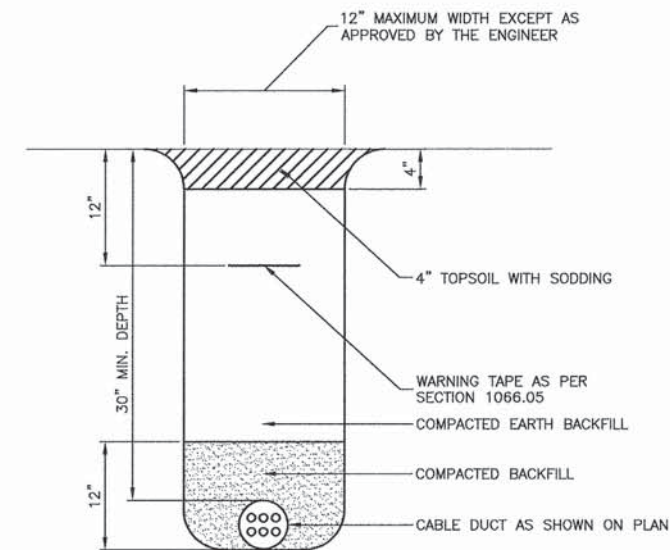
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	18
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				

LIGHTING GENERAL NOTES

1. ALL WORK TO CONFORM TO THE MOST RECENT NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.
2. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
3. BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL ComEd FOR APPROVAL OF LOCATION.
4. FOR LOCATION OF EXISTING UNDERGROUND ELECTRICAL CABLE CALL ComEd.
5. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING, (i.e. DECORATIVE ROCKS, SHRUBS, PLANTS, ECT.) OR SHALL REPLACE IT, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
6. CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUIT, MAGNETIC DETECTORS AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUIT AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE CITY OR STATE.
7. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACK FILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
9. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
10. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
11. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
12. UNDERGROUND SPLICES OF LIGHTING CONDUCTORS WILL NOT BE ALLOWED EXCEPT AT LIGHT POLE BASE.
13. CONDUITS AND UNIT DUCTS MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREE, BUSHES, DRAINS AND OTHER UTILITIES.



TRENCH DETAIL FOR PAVED AREAS



TRENCH DETAIL FOR GRASS AREAS

FILE NAME = 07399_02-LGHT-02 - DETAILS-01

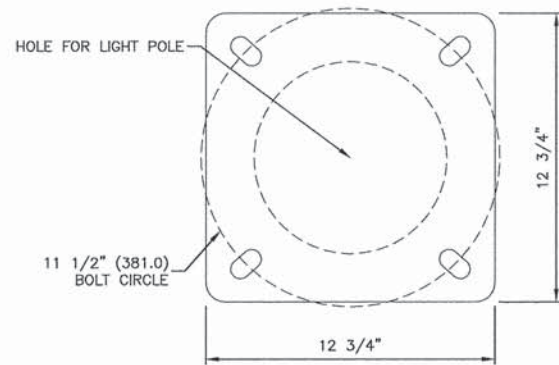
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	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- MED	REVISED --
PLOT DATE = 08-27-15	CHECKED -- APG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

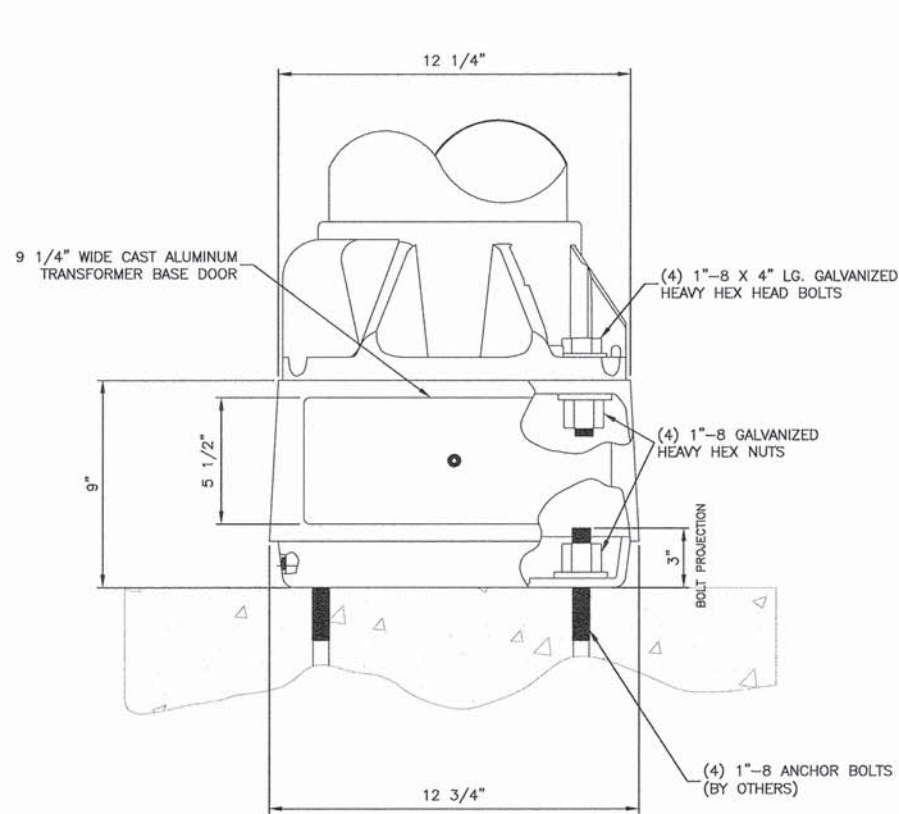
IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
STREET LIGHTING DETAILS

SCALE: SHEET NO. 19 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	19
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				

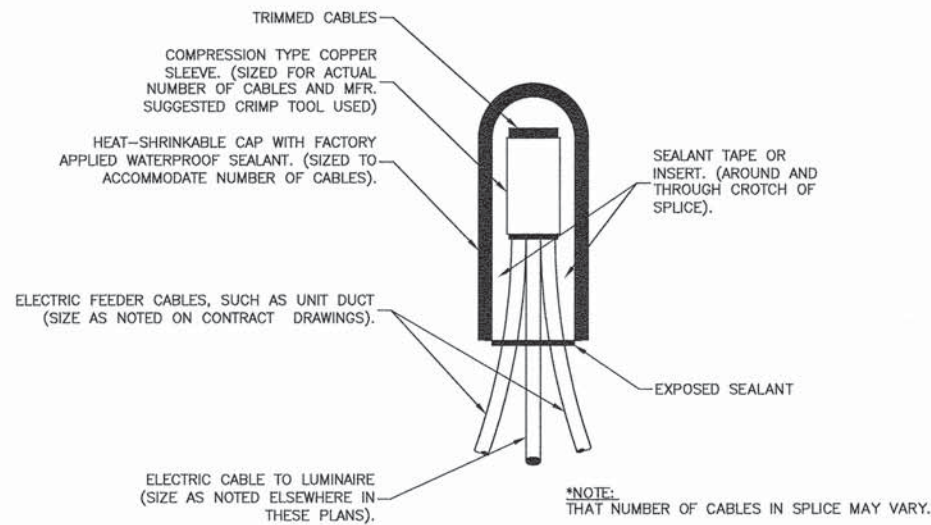


LIGHT POLE BASE PLATE DETAIL
11.5" BOLT CIRCLE

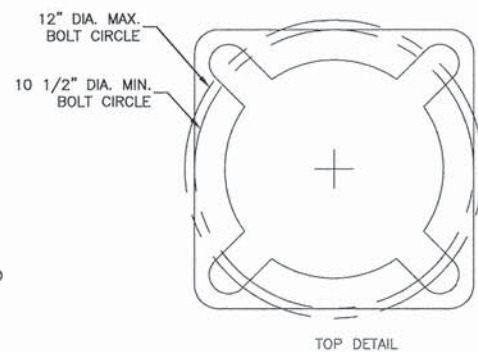


TRANSFORMER BASE DETAIL, 11 1/2" BOLT CIRCLE

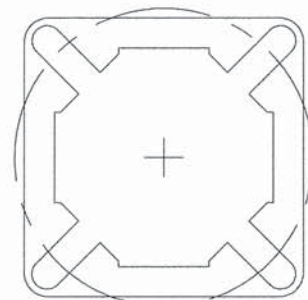
- NOTES:**
- BREAKAWAY DEVICE TO BE AASHTO APPROVED.
 - BREAKAWAY DEVICE AND POLE SHALL BE LEVELED AS ONE UNIT USING LEVELING NUTS IF REQUIRED



SPlicing ELECTRIC CABLES
BASIC MATERIALS AND METHODS



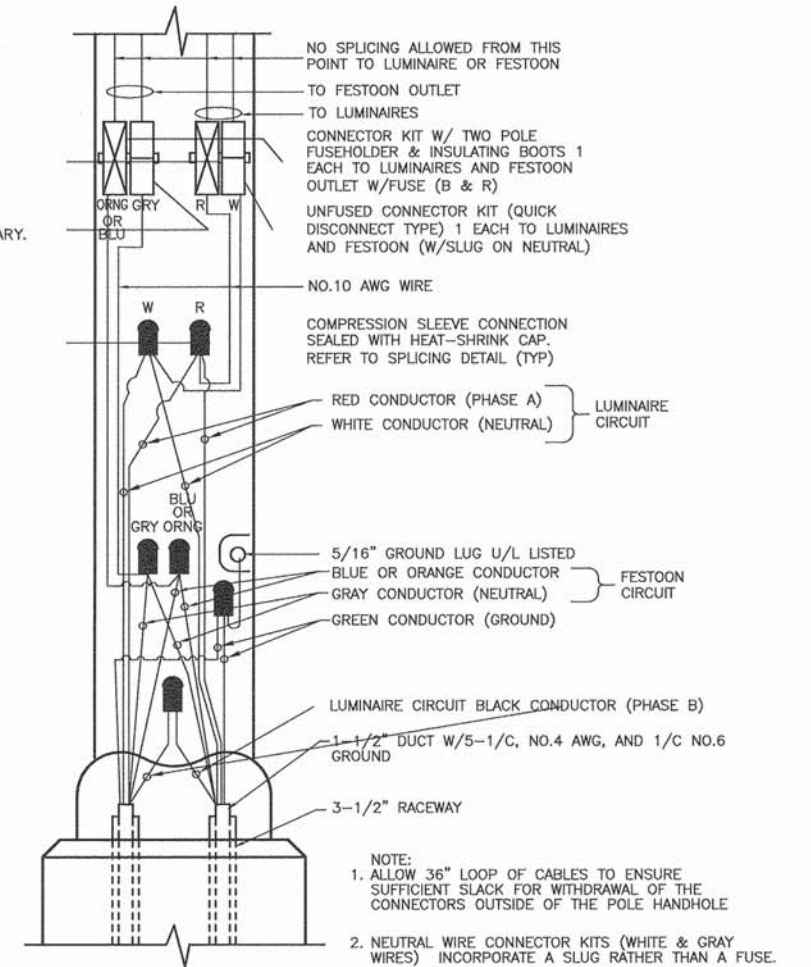
TOP DETAIL



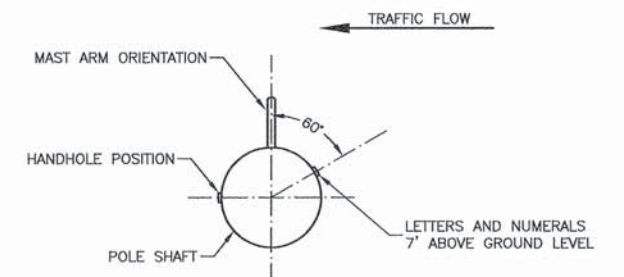
BOTTOM DETAIL

NOMINAL WATTAGE	FUSE SIZE
400	4.0 AMP
FESTOON	6.0 AMP

FUSE SIZE TABLE



POLE HANDHOLE WIRING DIAGRAM
(TYPICAL FOR LUMINAIRE INSTALLATION)
(WITH FESTOON)



POSITION OF HANDHOLE AND NUMERALS ON POLE

FILE NAME = 07399_02-LGHT-02 - DETAILS-02

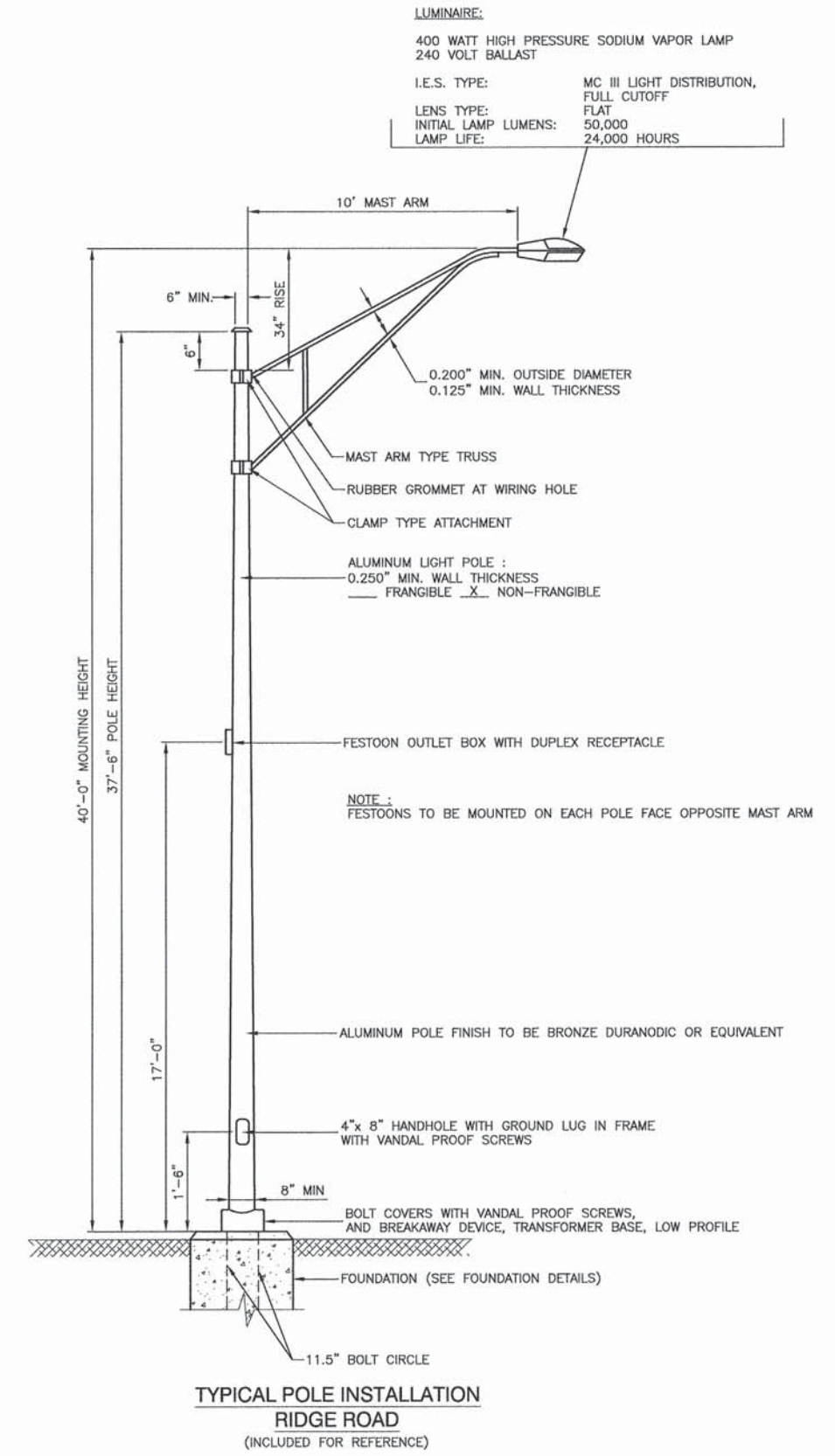
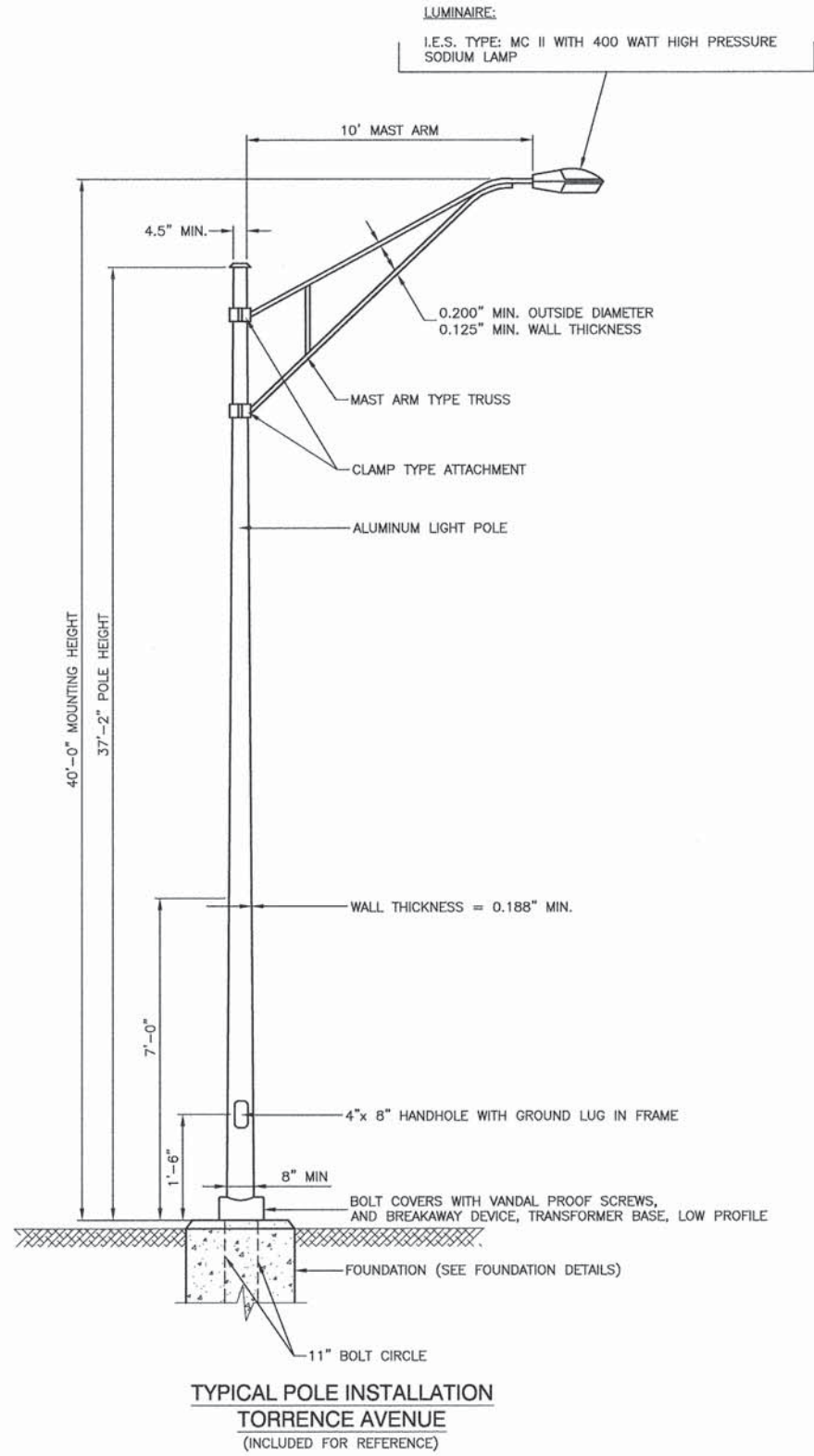
USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- MED	REVISED --
PLOT DATE = 08-27-15	CHECKED -- APG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
STREET LIGHTING DETAILS

SCALE: SHEET NO. 20 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00185-00-TL	COOK	53	20
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				



FILE NAME = 07398_02-LGHT-02 - DETAILS-03

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- MED	REVISED --
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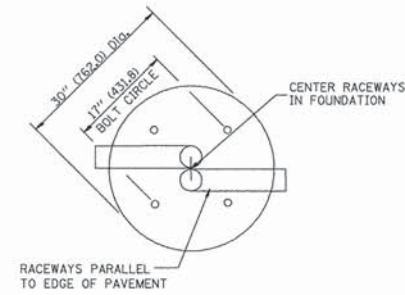
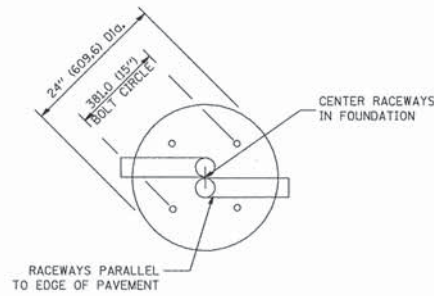
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT RIDGE ROAD STREET LIGHTING DETAILS			
SCALE:	SHEET NO. 21 OF 53 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	21
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				

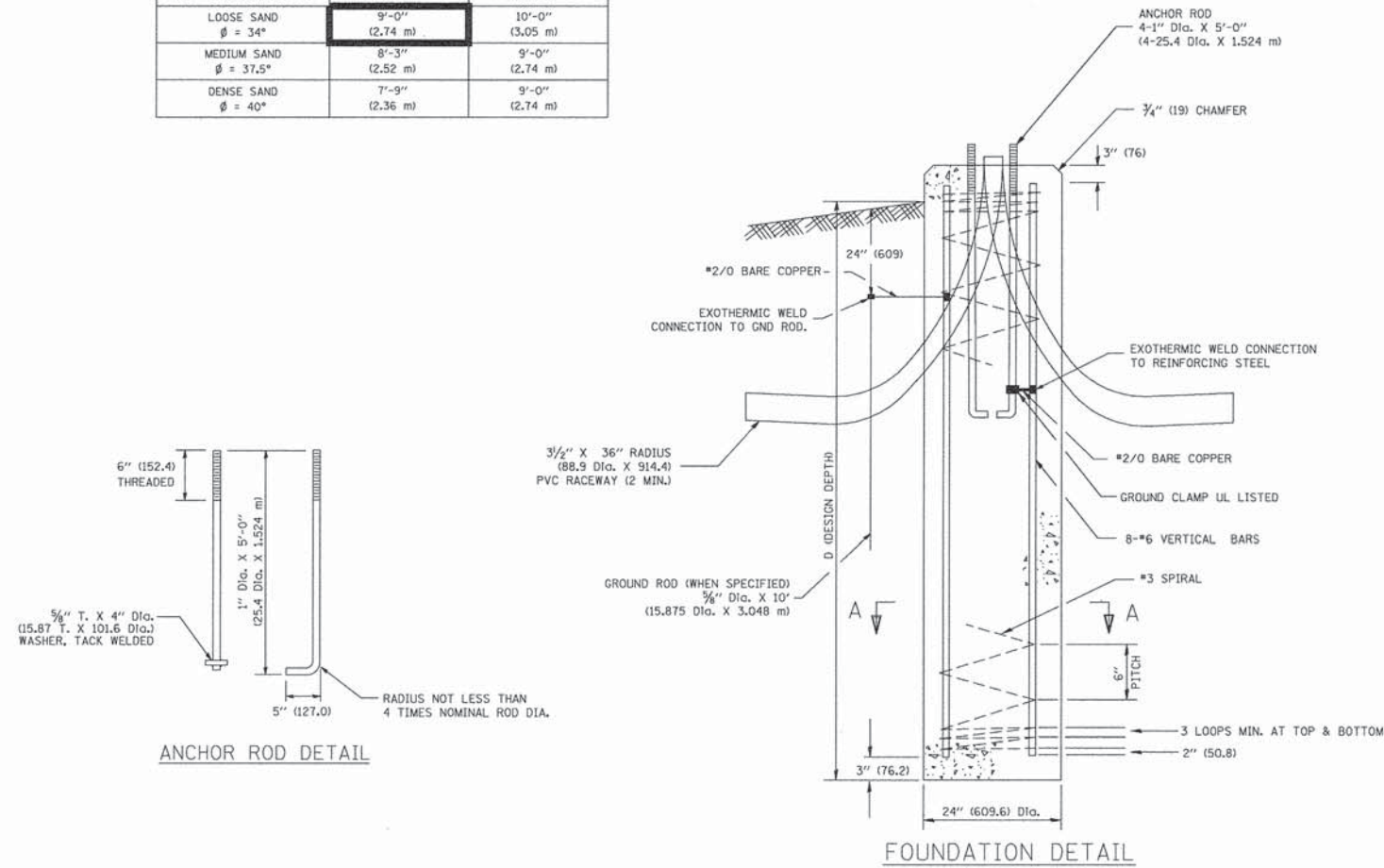
LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Q _u = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Q _u = 0.75 TON/SQ. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Q _u = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

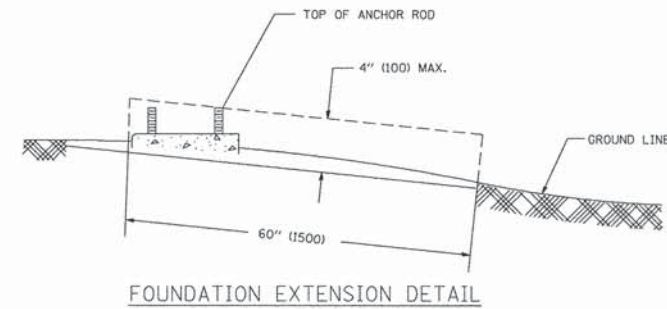


TOP VIEW

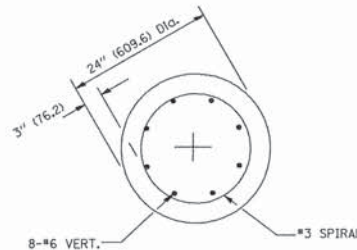
TOP VIEW



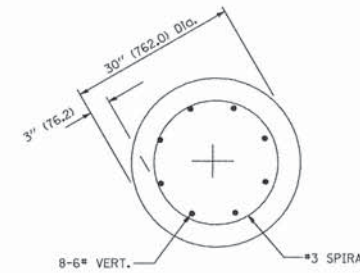
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

FILE NAME = 07398_02-LIGHT-02 - DETAILS-04

USER NAME =
DESIGNED — EA
CHECKED — PB
PLOT SCALE =
DRAWN — MED
PLOT DATE = 08-27-15
CHECKED — APG

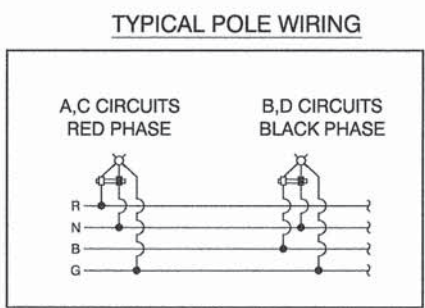
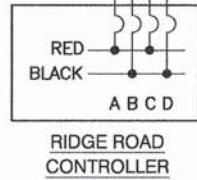
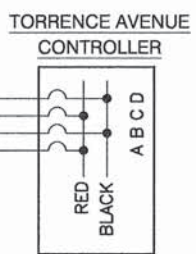
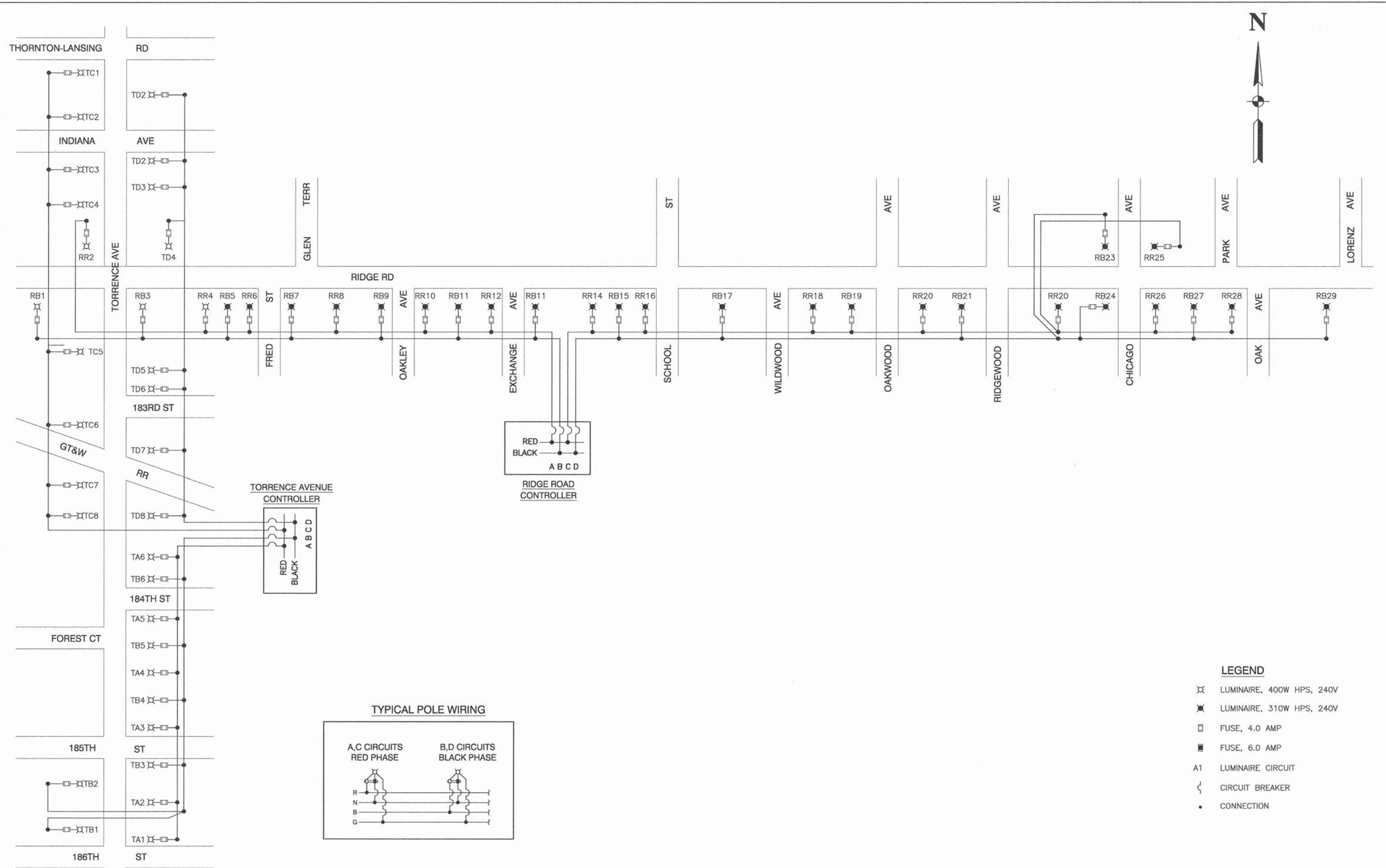
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
STREET LIGHTING DETAILS

SCALE: SHEET NO. 22 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	22
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				



LEGEND

- ⌘ LUMINAIRE, 400W HPS, 240V
- ⌘ LUMINAIRE, 310W HPS, 240V
- FUSE, 4.0 AMP
- FUSE, 6.0 AMP
- A1 LUMINAIRE CIRCUIT
- ⌋ CIRCUIT BREAKER
- CONNECTION

FILE NAME = 07398_02-LGHT-03 - IDOT P01

USER NAME =	DESIGNED - EA	REVISED -
	CHECKED - PB	REVISED -
PLOT SCALE =	DRAWN - ACAD	REVISED -
PLOT DATE = 08-27-15	CHECKED - ACAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT RIDGE ROAD STREET LIGHTING DETAILS	
SCALE:	SHEET NO. 23 OF 53 SHEETS STA. TO STA.

F.A.U. RTE. 1621	SECTION 07-00165-00-TL	COUNTY COOK	TOTAL SHEETS 53	SHEET NO. 23
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT HSIP-8003(848)	

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			SIGNAL POST AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
GUY WIRE				ABANDON ITEM	A			SAMPLING (SYSTEM) DETECTOR		S	S
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				QUEUE DETECTOR		Q	Q
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				PREFORMED QUEUE DETECTOR		PQ	PQ
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE							
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT							
DETECTOR LOOP, TYPE I				RADIO REPEATER							
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

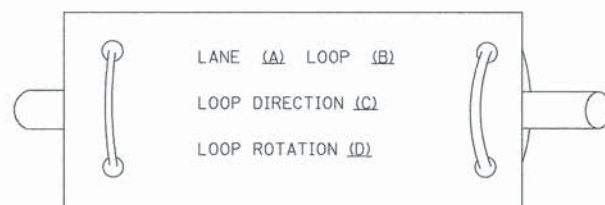
RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

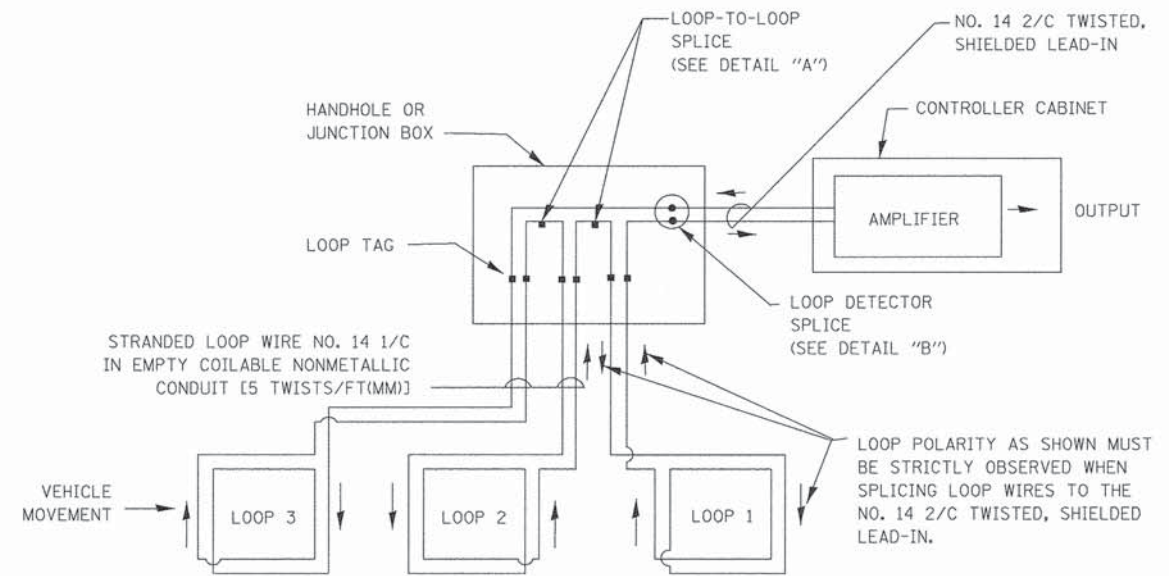
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

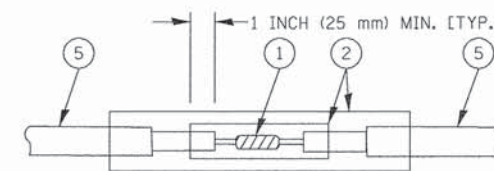


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

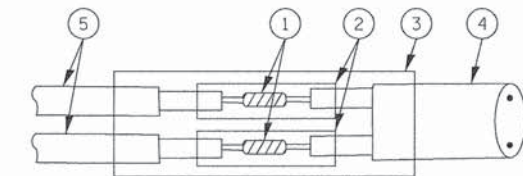


DETECTOR LOOP WIRING SCHEMATIC

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

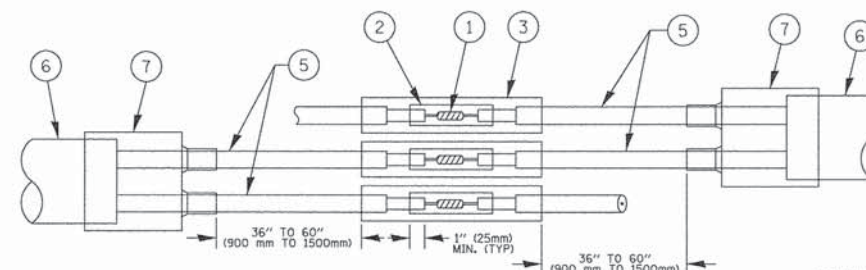


DETAIL "A"
LOOP-TO-LOOP SPLICE

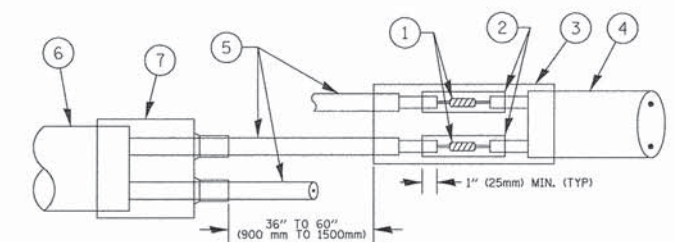


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

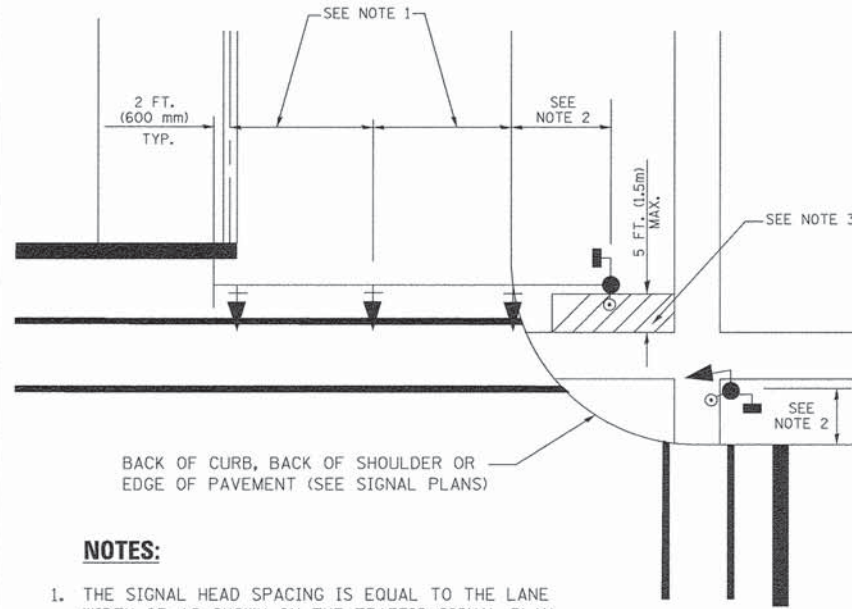
LOOP DETECTOR SPLICE

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

USER NAME = footemj	DESIGNED -- DAD	REVISD -- DAG 1-1-14
	CHECKED -- BCK	REVISD --
PLOT SCALE = 58.0000' / 1"	DRAWN -- DAD	REVISD --
PLOT DATE = 1/13/2014	CHECKED -- 10-28-09	REVISD --

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT CONTRACT NO. 61B76		

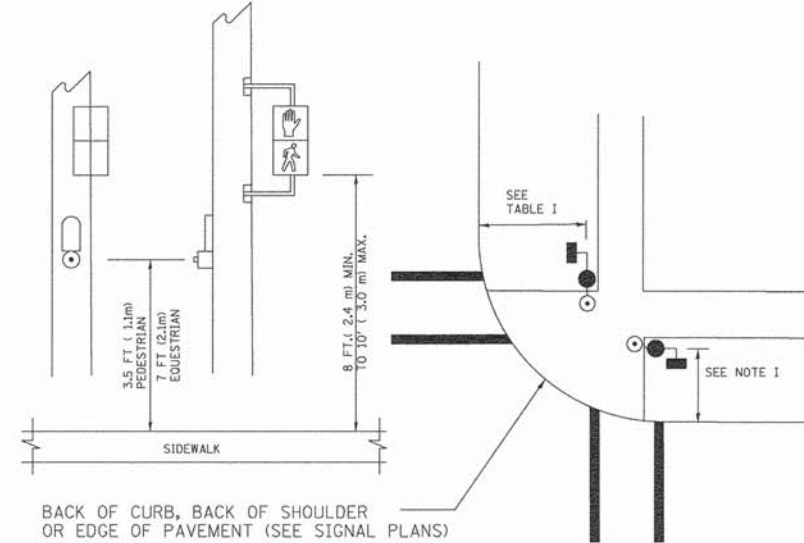
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

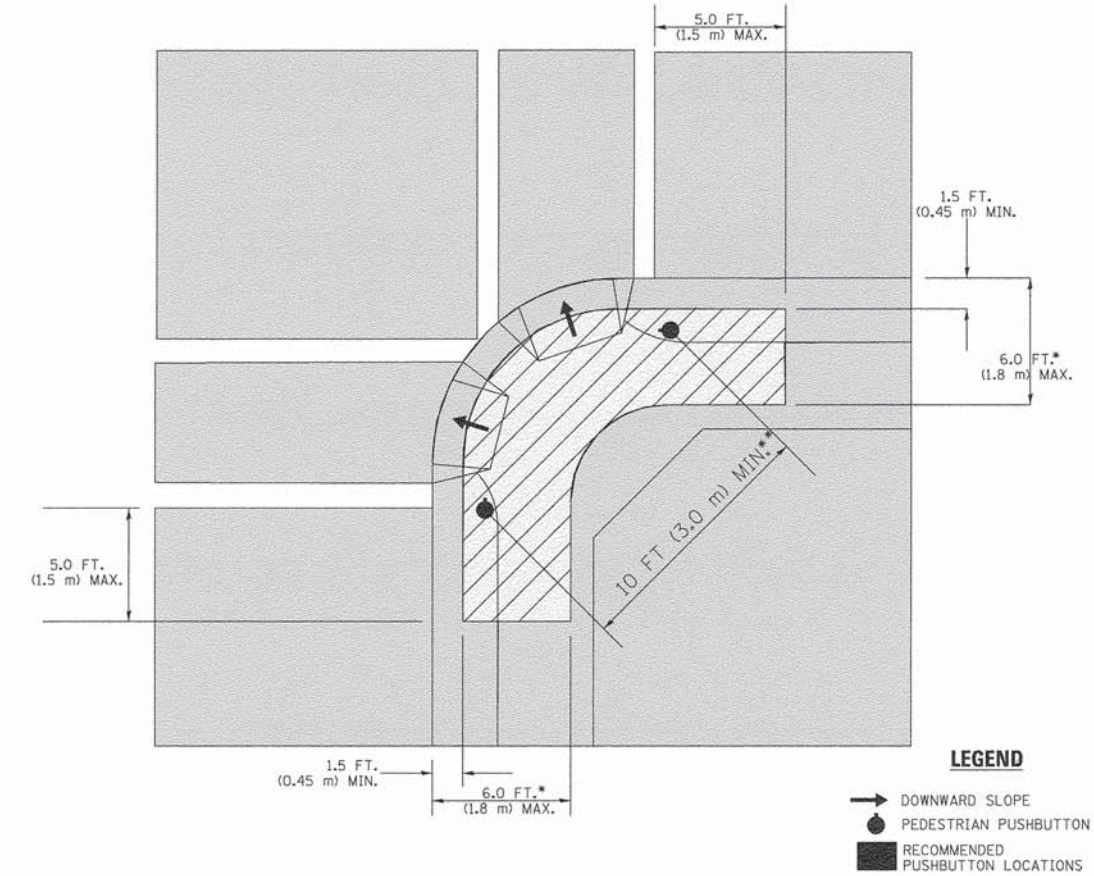
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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



- 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 AFFECT 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.

FILE NAME = 07998_02-SGNL-DTL-02 - P03

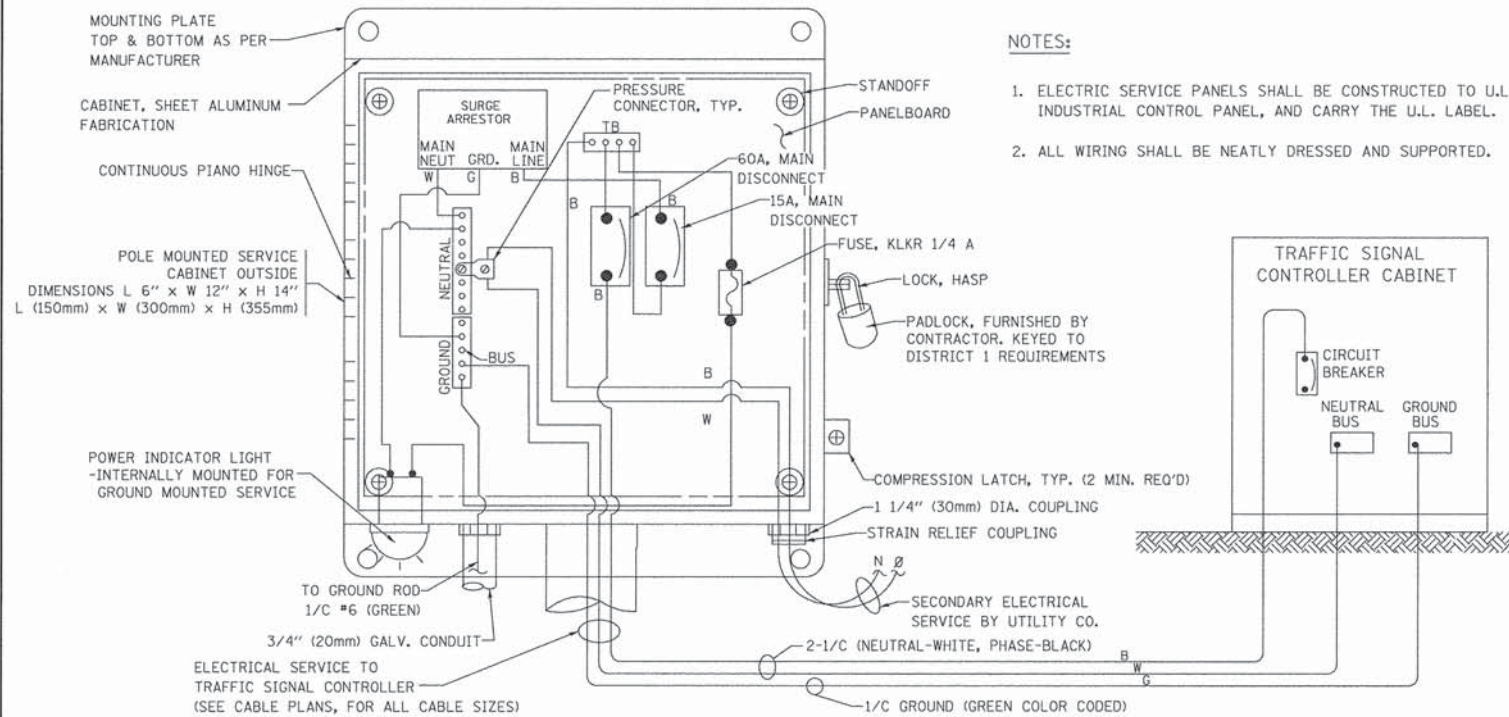
USER NAME = Footemj	DESIGNED -- DAD	REVISED -- DAG 1-1-14
PLOT SCALE = 50.0000 / 1 in.	CHECKED -- BCK	REVISED --
PLOT DATE = 1/13/2014	DRAWN -- DAD	REVISED --
	CHECKED -- 10-28-09	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

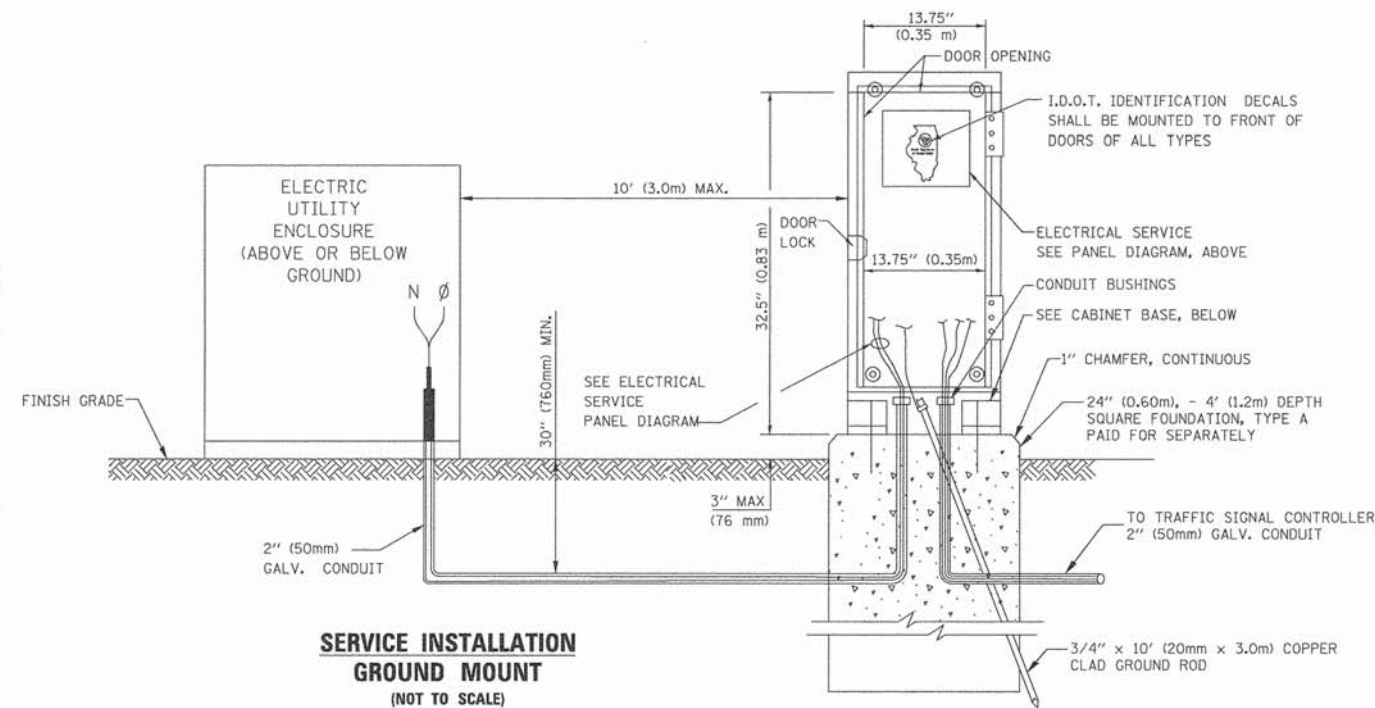
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET NO. 3 OF 7 SHEETS STA. TO STA.

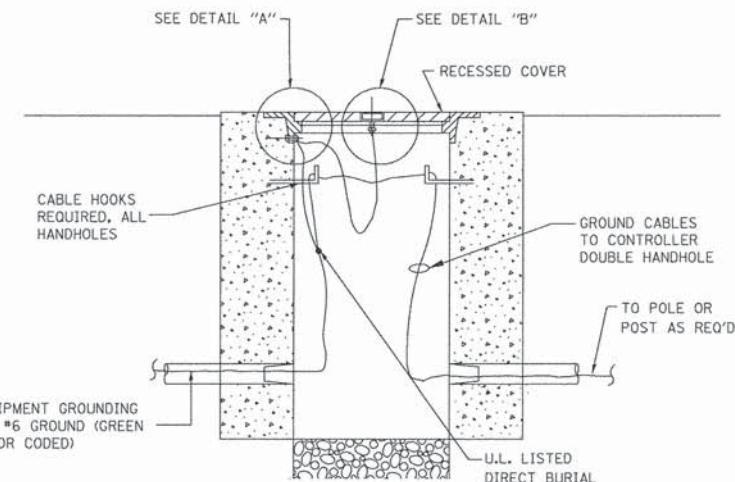
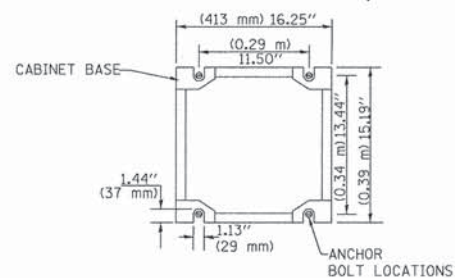
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	53	26
TS-05		CONTRACT NO. 61B76		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



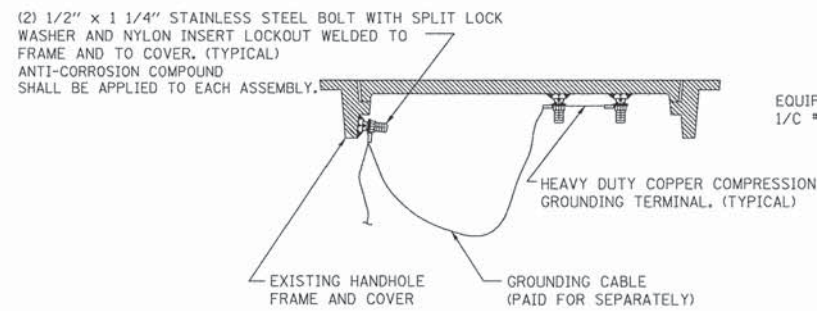
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**



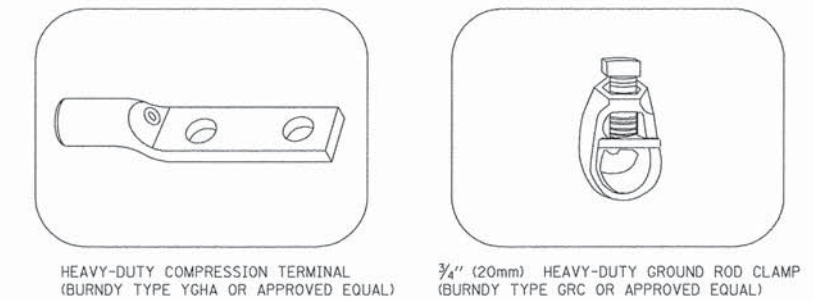
CABINET - BASE BOLT PATTERN (NOT TO SCALE)



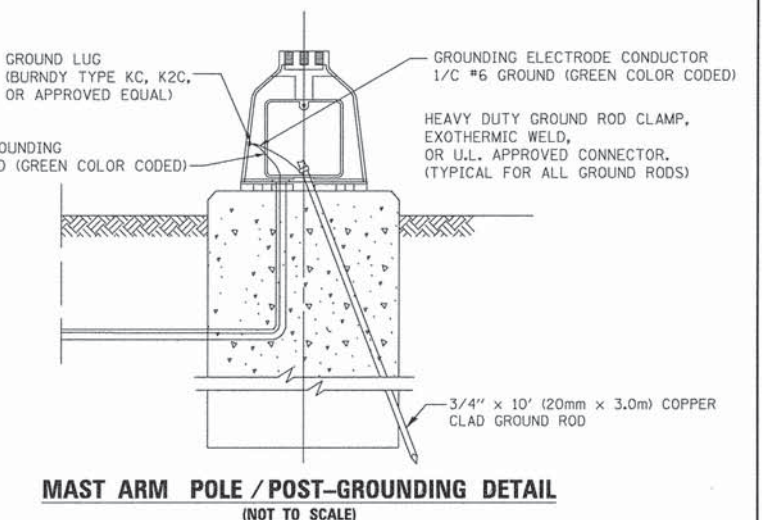
HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

**NOTES:
GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

FILE NAME = 07398_02-SGNL_DTLS-02 - P04

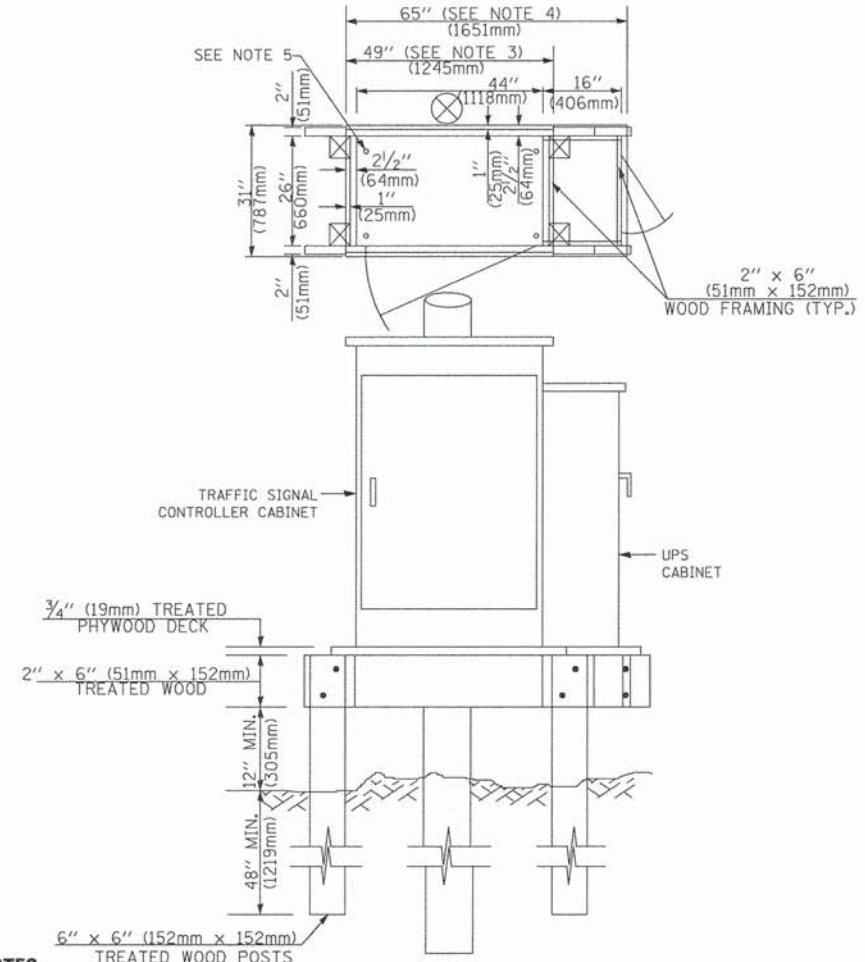
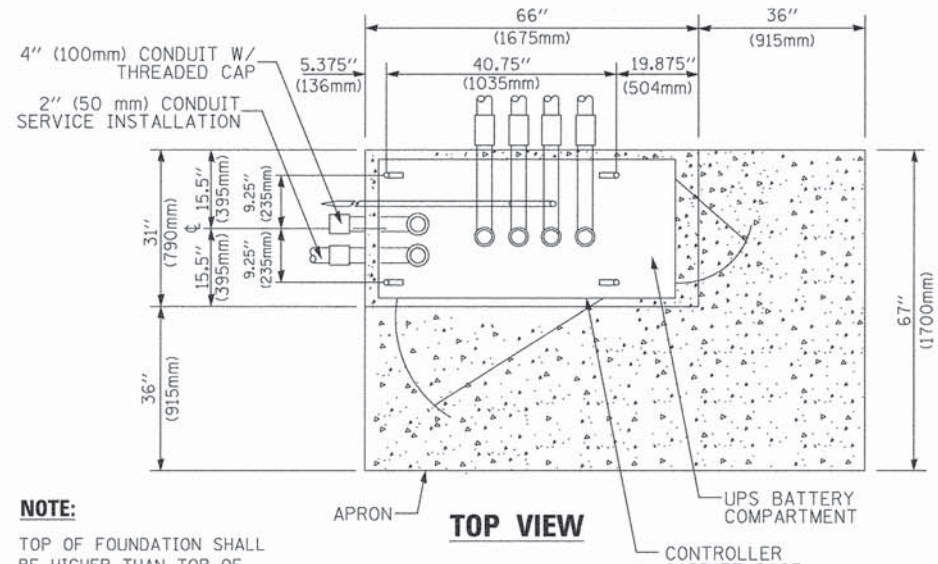
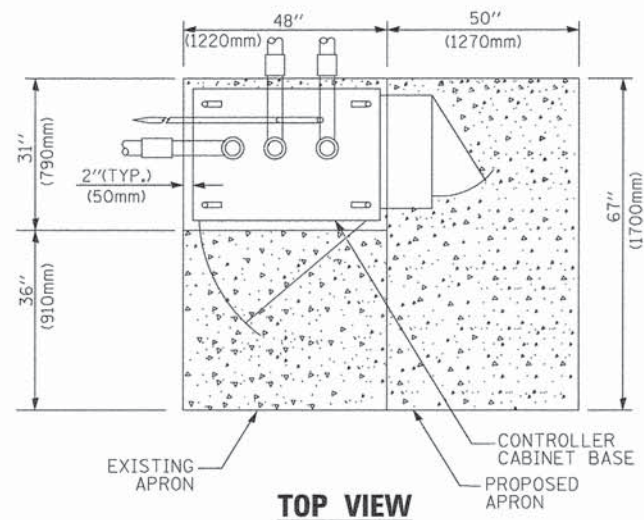
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PLOT SCALE = 50.0000' / 1"	CHECKED -- BCK	REVISED --
PLOT DATE = 1/13/2014	DRAWN -- DAD	REVISED --
	CHECKED -- 10-28-09	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	COOK	53	27
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT

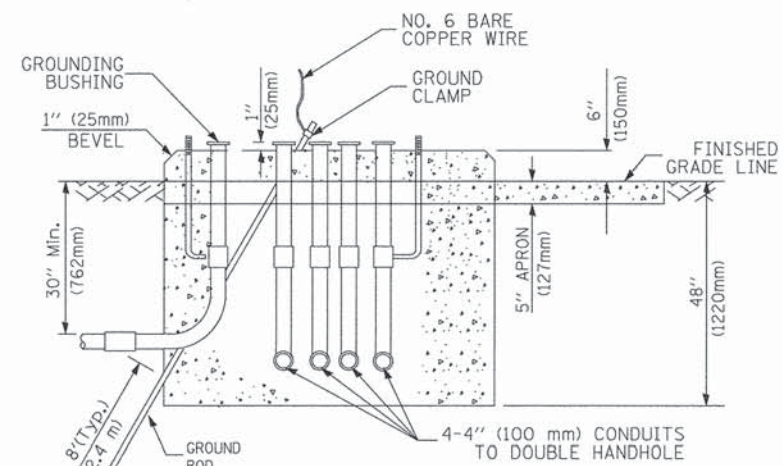
SCALE: SHEET NO. 4 OF 7 SHEETS STA. TO STA.



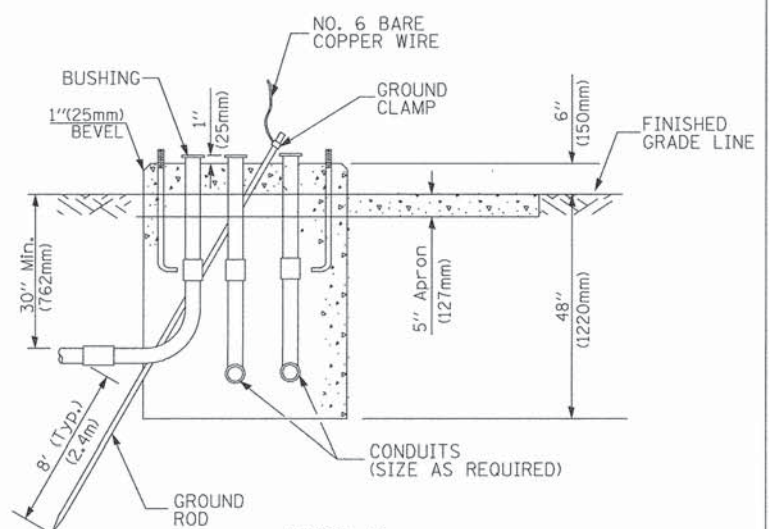
- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - 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.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET

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

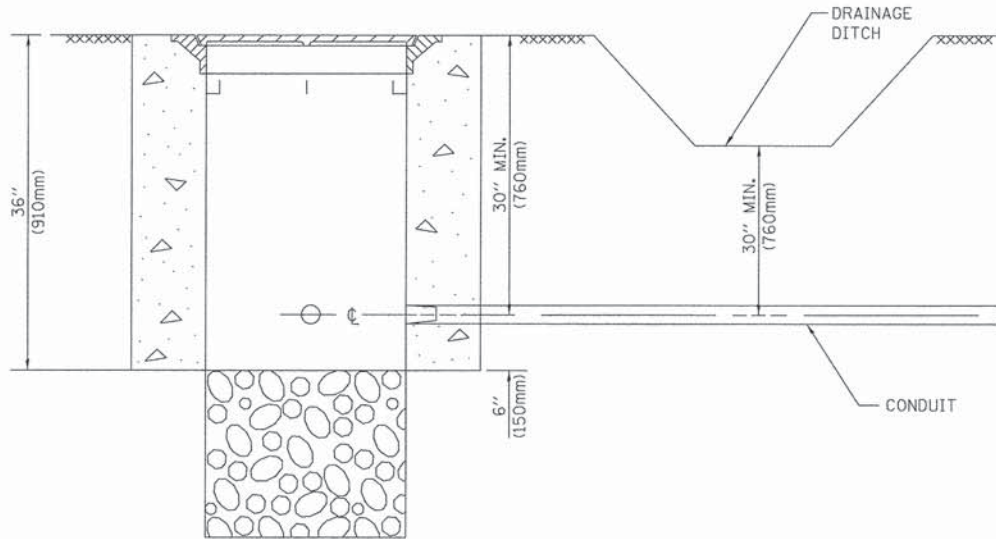
FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

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 up to 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 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- 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.
 - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 - For mast arm assemblies with dual arms refer to state standard 878001.

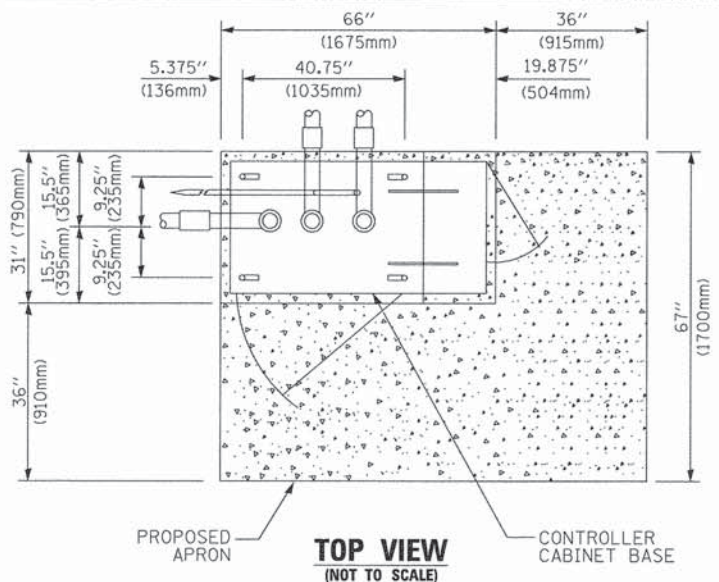
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



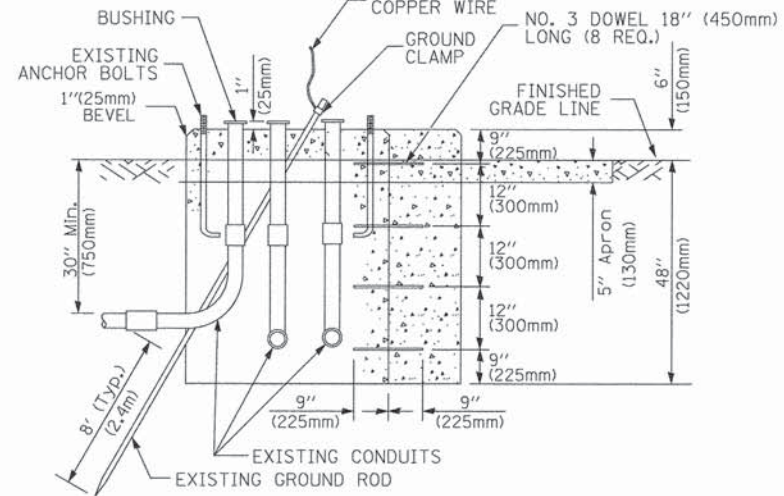
NOTES:

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

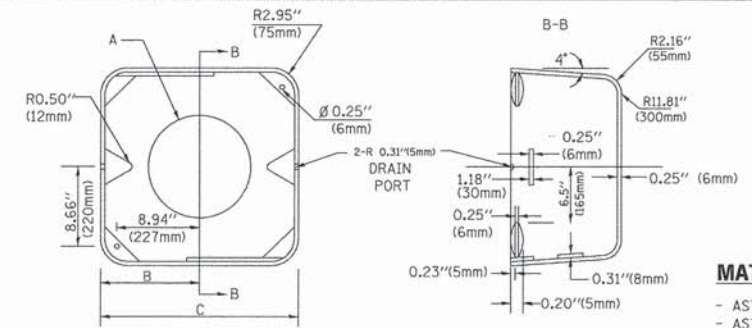
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



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)

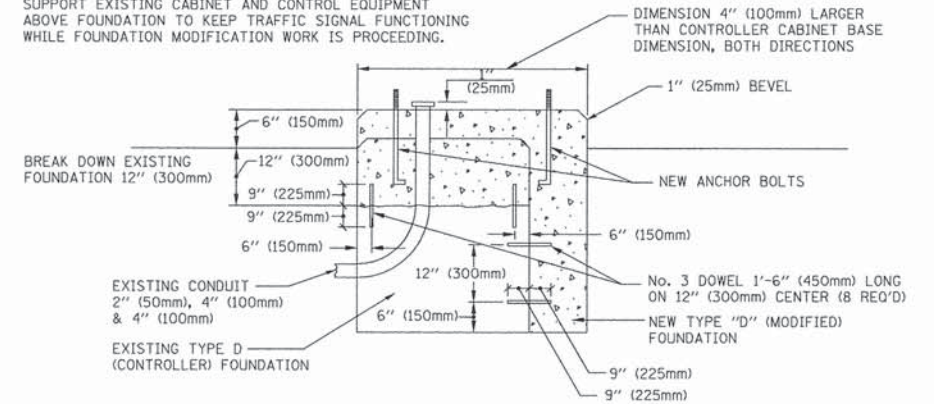
SHROUD

NOTES:

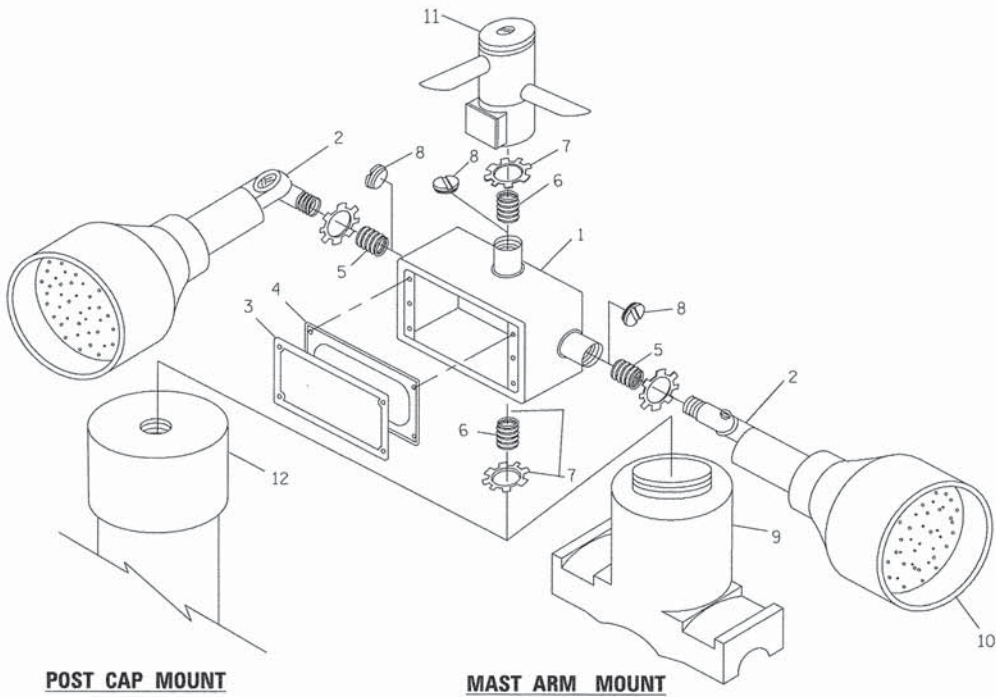
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



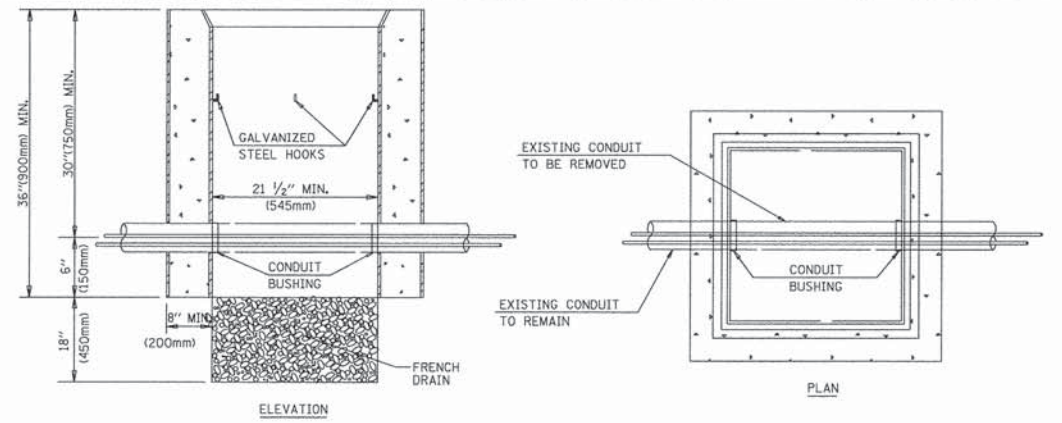
MODIFY EXISTING TYPE "D" FOUNDATION



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:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 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
- 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.



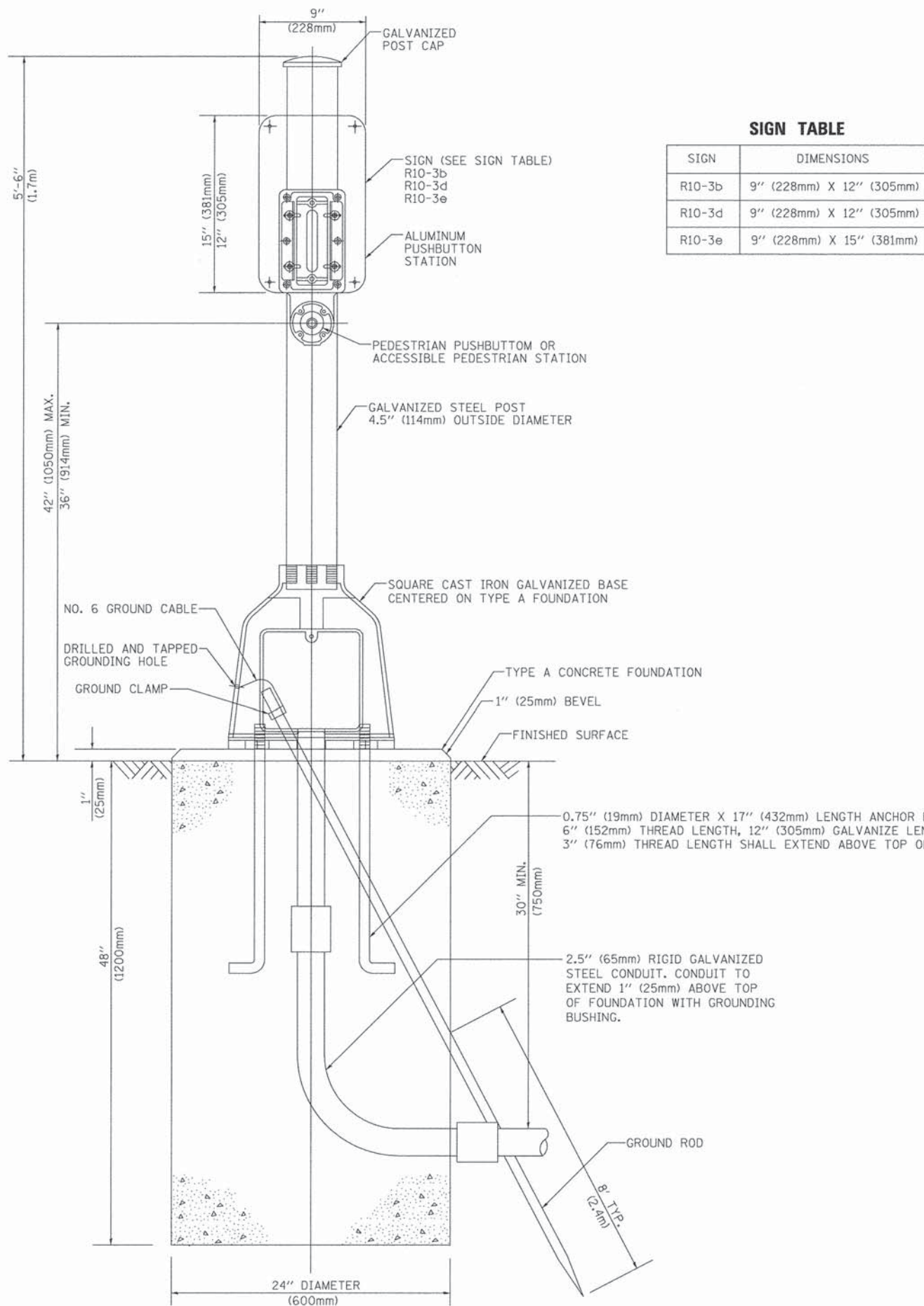
NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 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

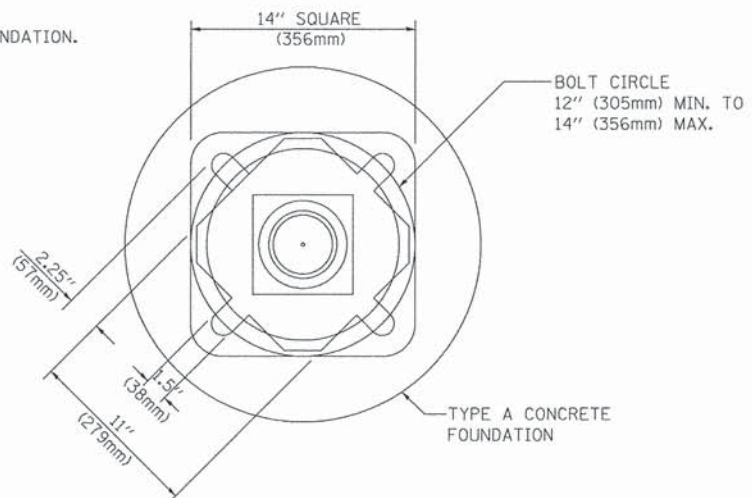
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PLOT SCALE = 50.0000' / 1"	CHECKED -- BCK	REVISED --
PLOT DATE = 1/13/2014	DRAWN -- DAD	REVISED --
	CHECKED -- 10-28-09	REVISED --

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	COOK	53	29
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61B76	



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

FILE NAME = 07398_02-SGNL_DTLS-02 - P07
 USER NAME = footem
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 PLOT DATE = 1/13/2014

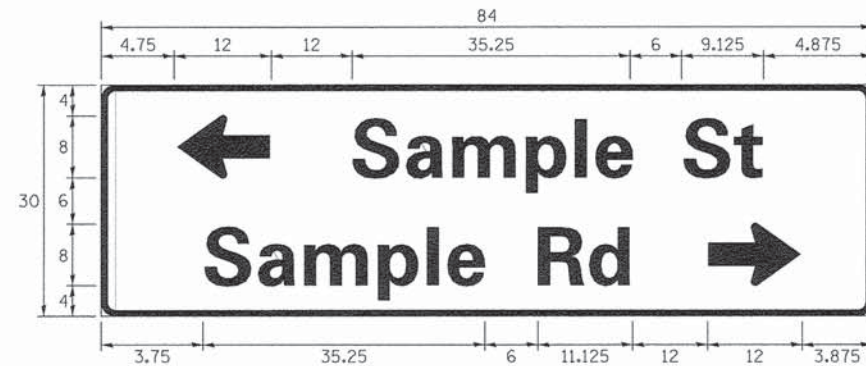
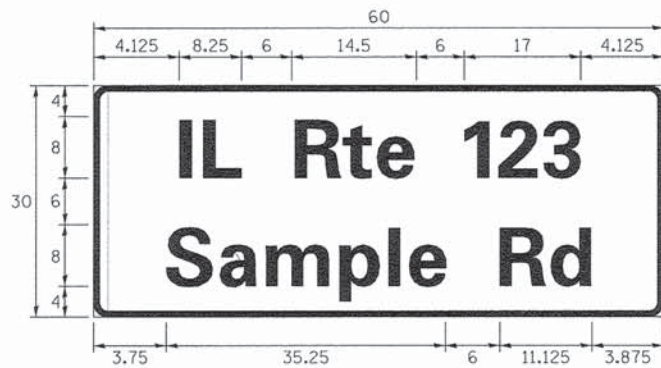
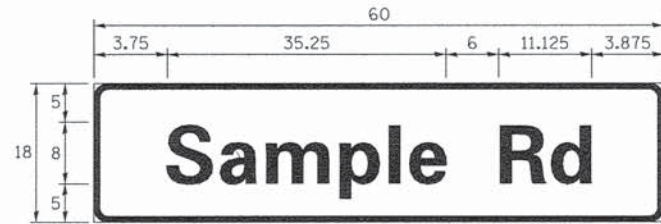
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CHECKED -- GND	REVISION --	DATE --
DRAWN -- DAD	REVISION --	DATE --
CHECKED -- 10/1/2012	REVISION --	DATE --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
 SCALE: SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	53	30
TS-05			CONTRACT NO. 61B76	
FED. ROAD DIST. NO. 1	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	-

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 THERE IS SPACE AVAILABLE.
- 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:

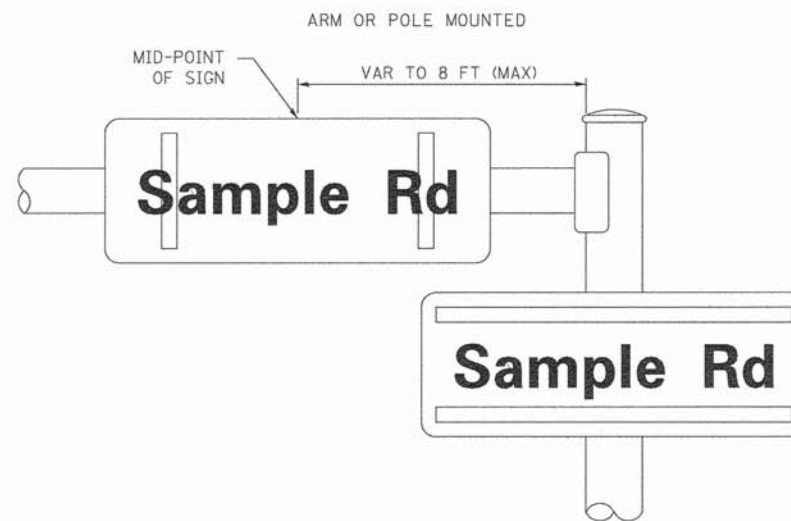
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

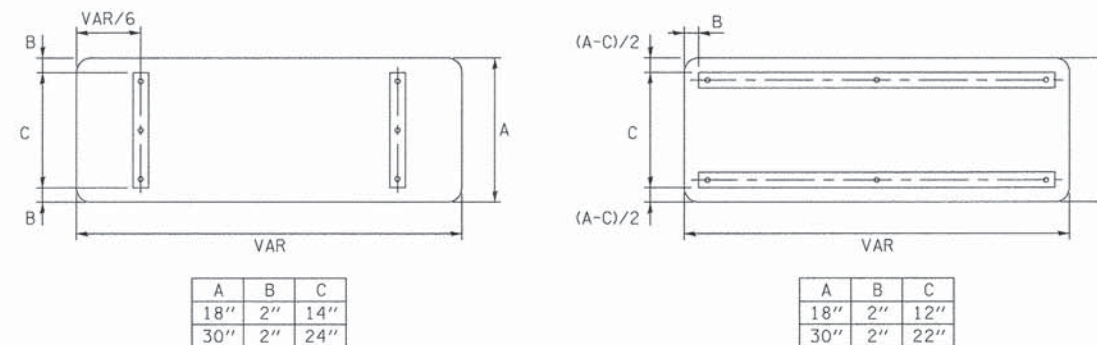
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

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

MOUNTING LOCATION



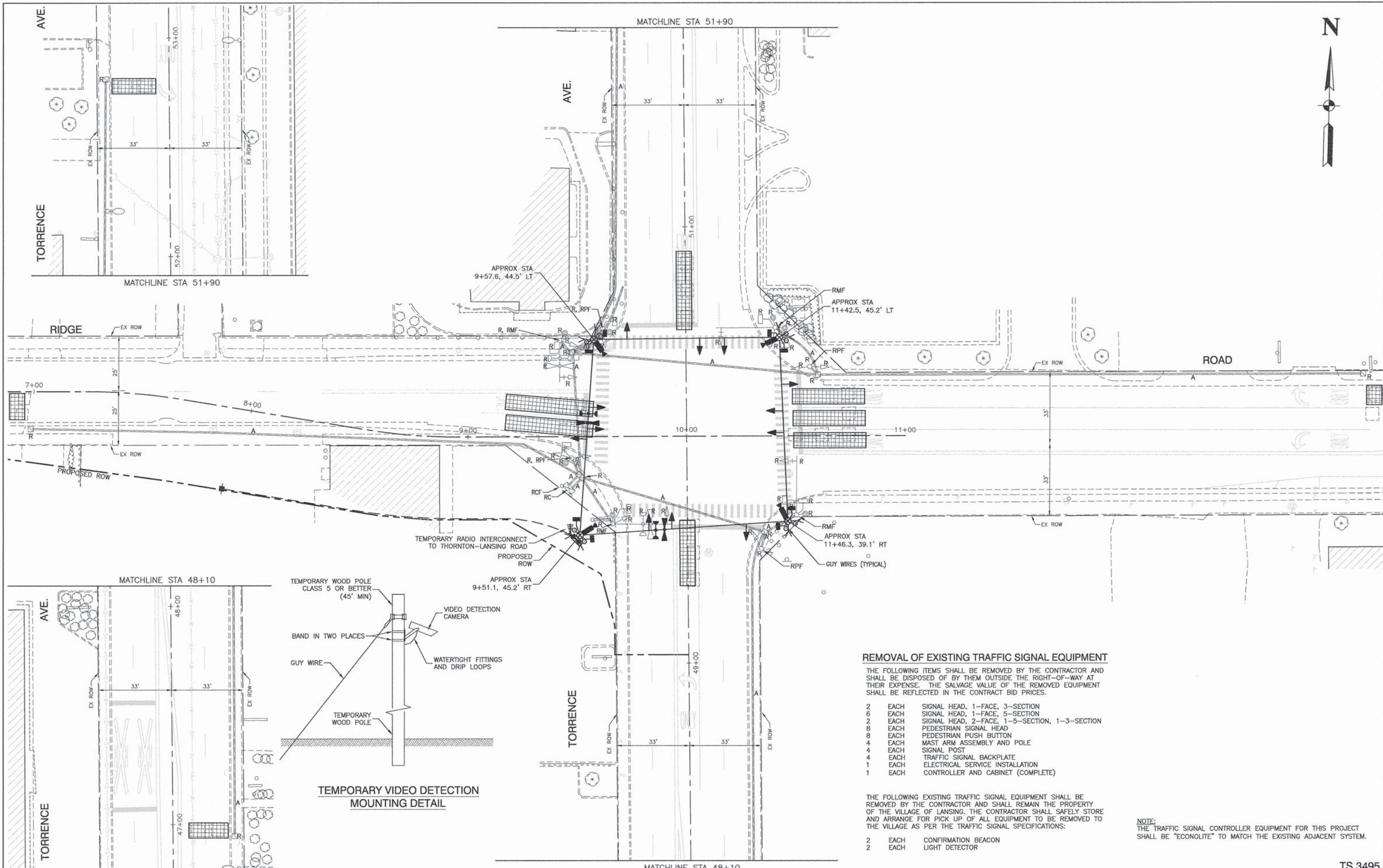
SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

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

CHARACTER	FHWA SERIES "C"			CHARACTER	FHWA SERIES "D"		
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		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	4.962	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	3.362	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	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	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	4.962	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



REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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 PRICES.

- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 6 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-5-SECTION, 1-3-SECTION
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH BUTTON
- 4 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL POST
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH ELECTRICAL SERVICE INSTALLATION
- 1 EACH CONTROLLER AND CABINET (COMPLETE)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF LANSING. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE REMOVED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 07398_02-SGNL-05 - P01

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

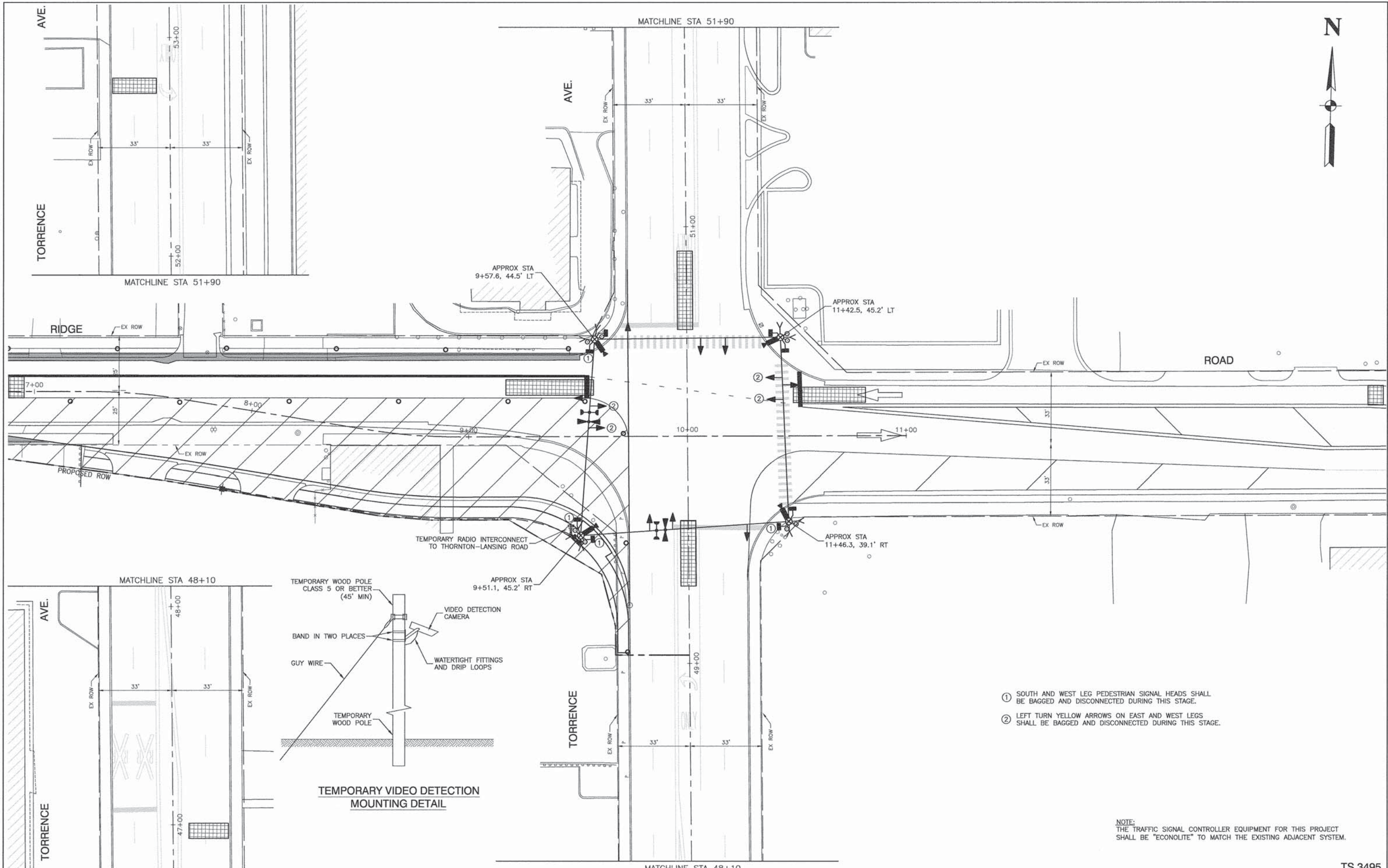
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION STAGE PLAN & REMOVALS

SCALE: 1"=20' SHEET NO. 32 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1821	07-00165-00-TL	COOK	53	32
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61B76	
FED. AID PROJECT			HSIP-8003(848)	

TS 3495



- ① SOUTH AND WEST LEG PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.
- ② LEFT TURN YELLOW ARROWS ON EAST AND WEST LEGS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 07399_02-SGNL-STGE-01 - TS STAGE 1
 LAST REVISION BY: JJB/08/27/15
 DATE: 08/27/15

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

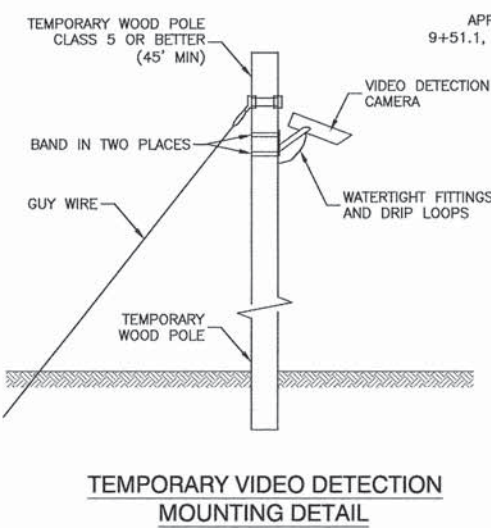
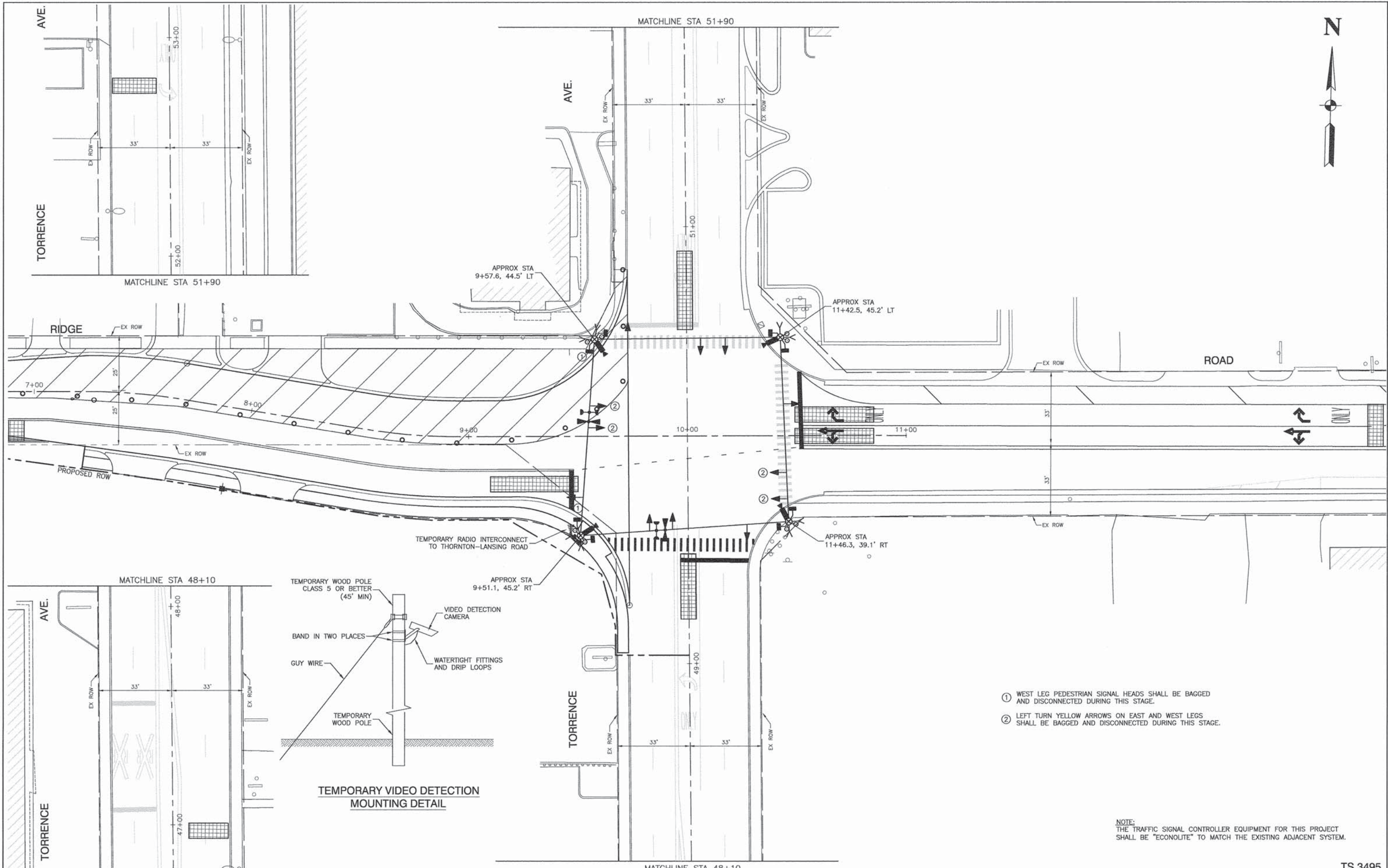
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 1**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)			CONTRACT NO. 61B76	

SCALE: 1"=20' SHEET NO. 33 OF 53 SHEETS STA. TO STA.

TS 3495

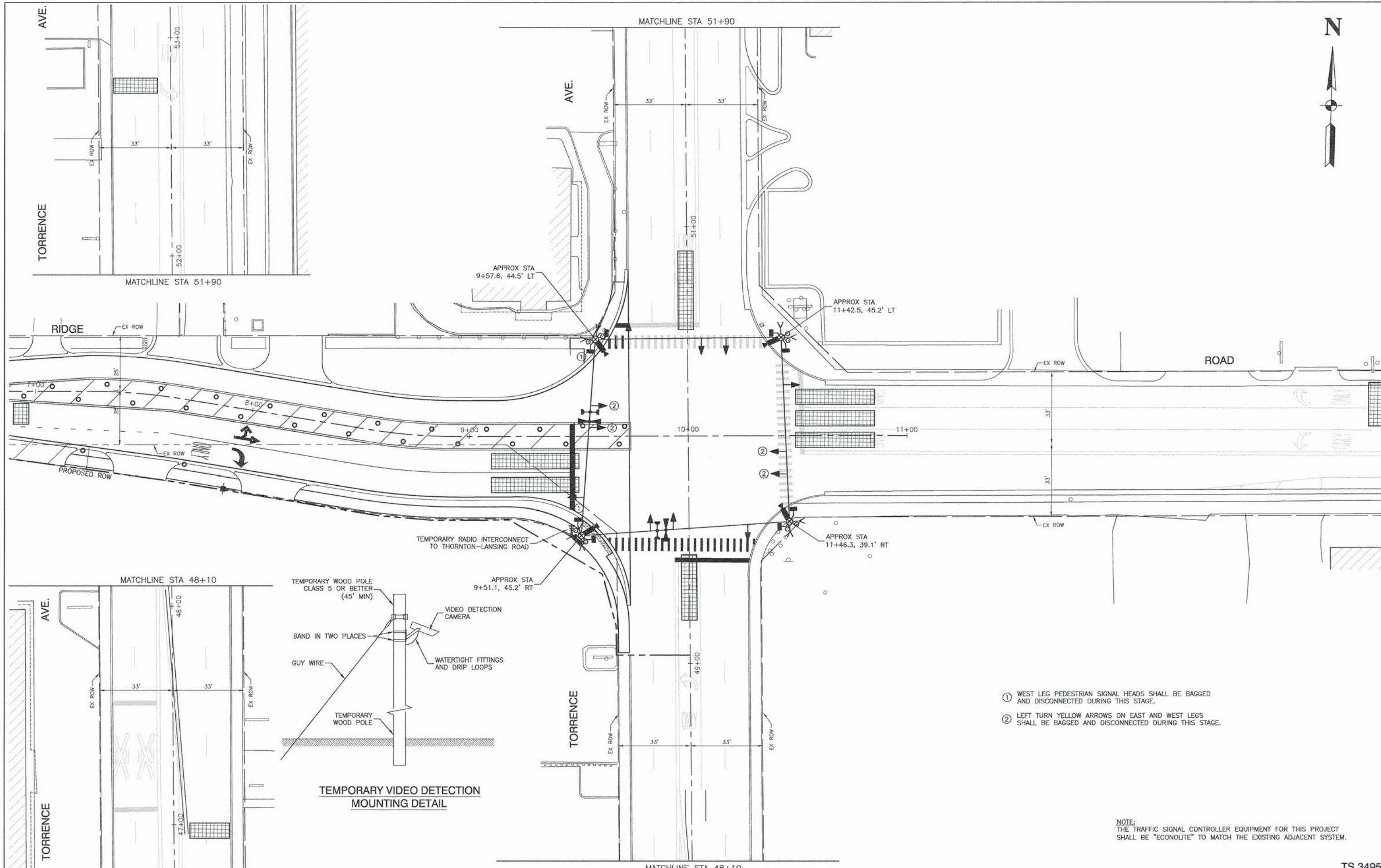


- ① WEST LEG PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.
- ② LEFT TURN YELLOW ARROWS ON EAST AND WEST LEGS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 07390_02-SGNL-STGE-02 - TS STAGE 2				USER NAME =				DESIGNED - EA		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				IL 83 / TORRENCE AVENUE AT RIDGE ROAD TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 2				F.A.U. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
PLOT SCALE =				DRAWN - JJB				CHECKED - PB		REVISED -										1621		07-00165-00-TL		COOK		53		34	
PLOT DATE = 08-27-15				CHECKED - EA				REVISED -										CONTRACT NO. 61B76											
												SCALE: 1"=20'				SHEET NO. 34 OF 53 SHEETS				STA. TO STA.				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)					

TS 3495



- ① WEST LEG PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.
- ② LEFT TURN YELLOW ARROWS ON EAST AND WEST LEGS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 07398_02-SGNL-STGE-03 - TS STAGE 3	USER NAME =	DESIGNED -- EA	REVISED --
		CHECKED -- PB	REVISED --
	PLOT SCALE =	DRAWN -- JJB	REVISED --
	PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

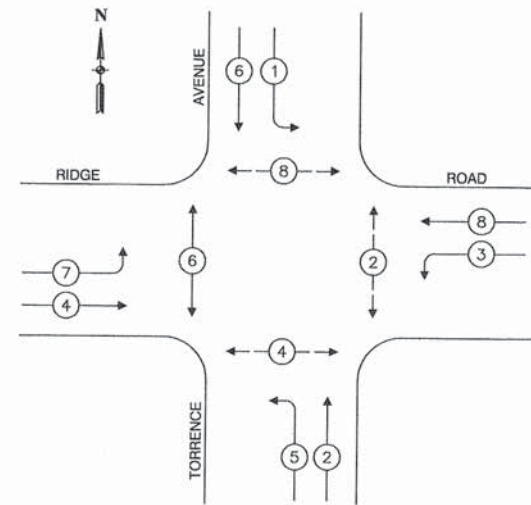
**IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 3**

SCALE: 1"=20' SHEET NO. 35 OF 53 SHEETS STA. TO STA.

F.A.U. RTE. 1621	SECTION 07-00165-00-TL	COUNTY COOK	TOTAL SHEETS 53	SHEET NO. 35
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT HSIP-8003(848)

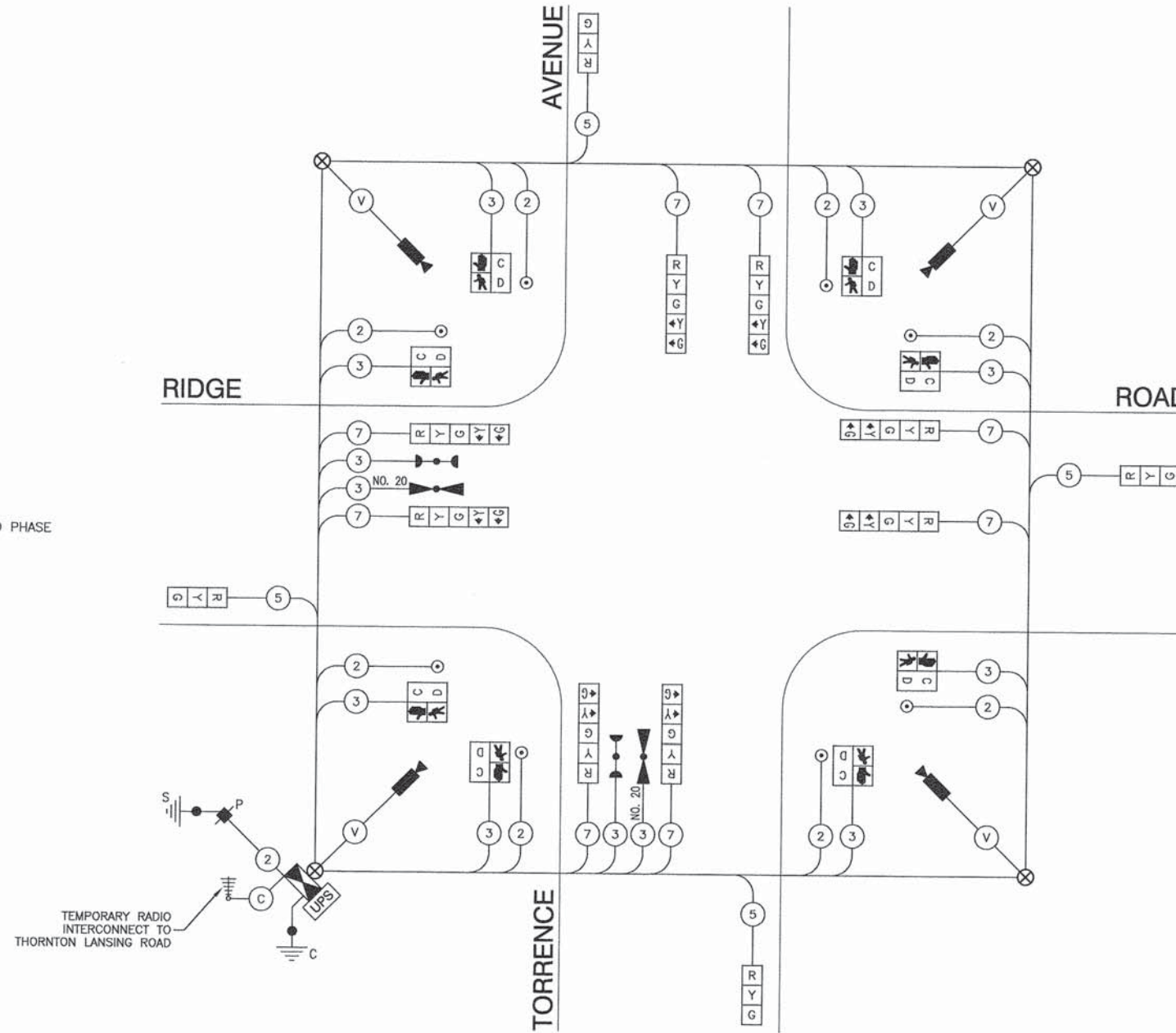
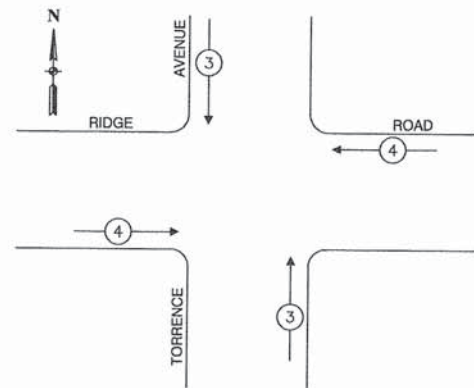
TS 3495

TEMPORARY PHASE DESIGNATION DIAGRAM



- LEGEND**
- ← (•) → DUAL ENTRY PHASE
 - ← (□) → SINGLE ENTRY PHASE
 - ← (•) → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TEMPORARY CABLE PLAN
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
EXISTING TRAFFIC SIGNAL REMOVAL STAGE

NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	16		12	0.10	19.2
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	0		25	0.05	0
VIDEO SYSTEM	1	150		1.00	150
FLASHER					0.50
ENERGY COSTS TO:				TOTAL =	691.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER CT, SCHAMBURG, IL 60196-1096
ENERGY SUPPLY CONTACT: BRAD SHINABARGAR
PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

FILE NAME = 07398_02-SGNL-CBLE-STGE-00 - P01

USER NAME =	DESIGNED -- EA	REVISED --
PLOT SCALE =	CHECKED -- PB	REVISED --
PLOT DATE = 08-27-15	DRAWN -- KWM	REVISED --
	CHECKED -- APG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT RIDGE ROAD
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

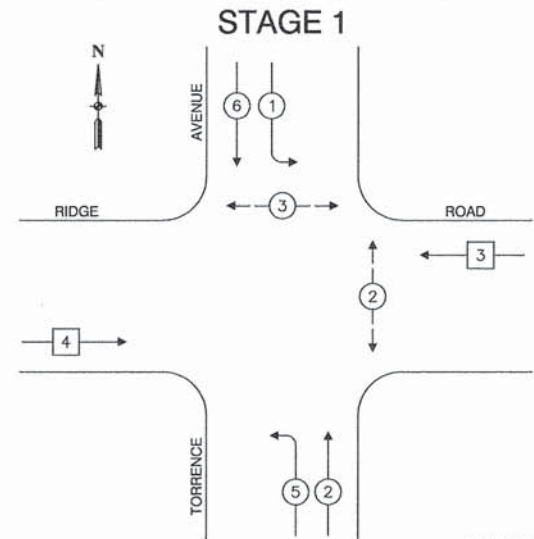
SCALE: SHEET NO. 35A OF 53 SHEETS STA. TO STA.

F.A.U. RTE. 1621	SECTION 07-00165-00-TL	COUNTY COOK	TOTAL SHEETS 53	SHEET NO. 35A
CONTRACT NO. 61B76				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT
SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 3495

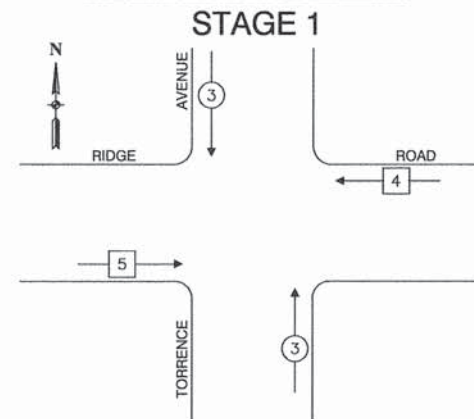
TEMPORARY PHASE DESIGNATION DIAGRAM



NOTE:
PEDESTRIAN PHASES 4 & 6 SHALL NOT
BE OPERATIONAL DURING THIS STAGE.

- LEGEND**
- ← (circle with dot) DUAL ENTRY PHASE
 - ← (square with dot) SINGLE ENTRY PHASE
 - ← (circle with dot and arrow) PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT		-	-

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	12	17	0.50		102
(YELLOW)	12	25	0.25		75
(GREEN)	12	15	0.25		45
ARROW	12	12	0.10		14.4
PED. SIGNAL	8	25	1.00		200
CONTROLLER	1	100	1.00		100
ILLUM. SIGN	0	25	0.05		0
VIDEO SYSTEM	1	150	-	1.00	150
FLASHER			0.50		
ENERGY COSTS TO:				TOTAL =	686.4
ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/DISTRICT 1 201 WEST CENTER CT. SCHAMBURG, IL 60196-1096 ENERGY SUPPLY CONTACT: BRAD SHINABARGER PHONE: (708)235-2692 COMPANY: COMMONWEALTH EDISON					

FILE NAME = 07398_02-SGNL-CBLE-STGE-01 - P01

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- KWM	REVISED --
PLOT DATE = 08-27-15	CHECKED -- APG	REVISED --

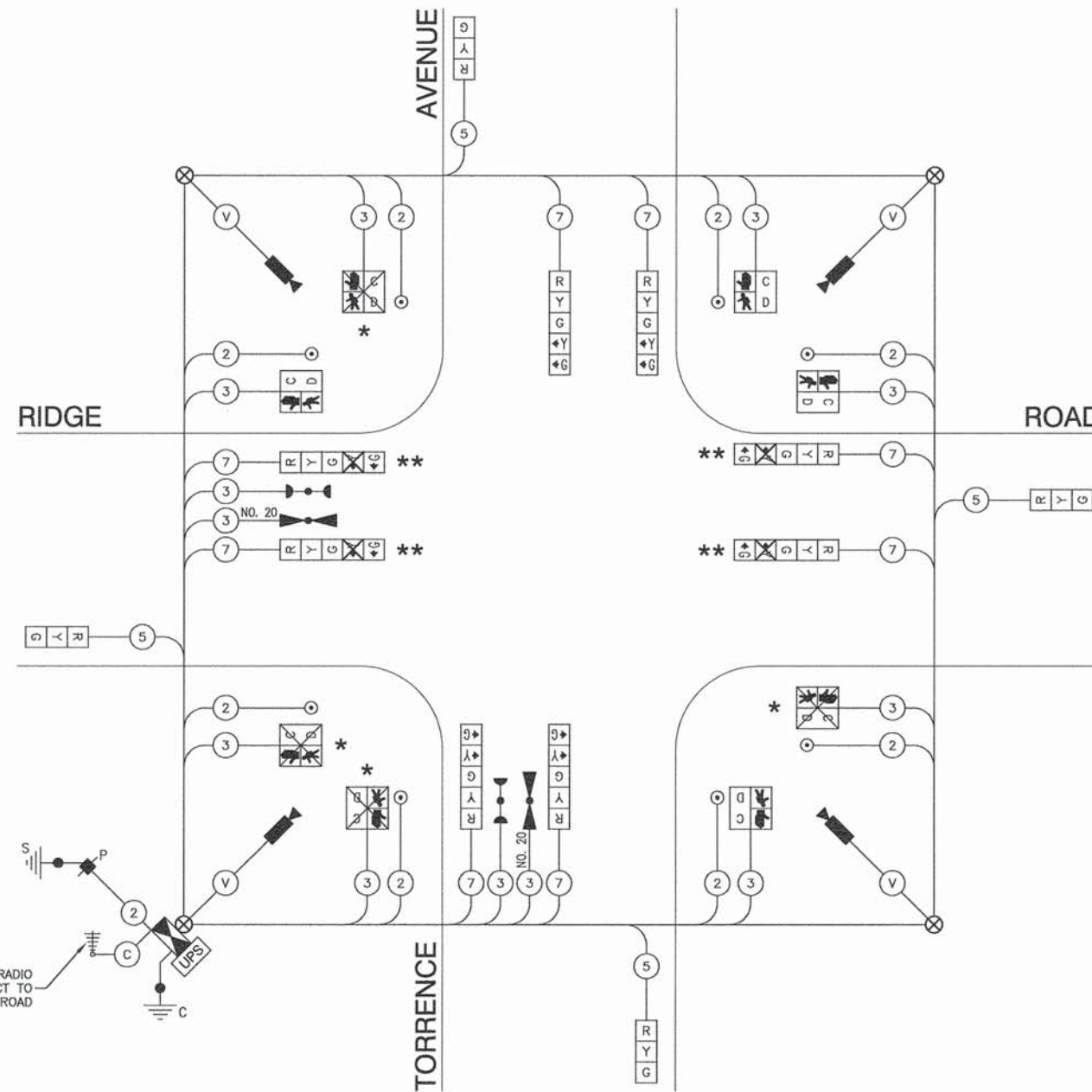
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT RIDGE ROAD
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE - STAGE 1

SCALE: SHEET NO. 36 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	36
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-6003(848)				

TS 3495



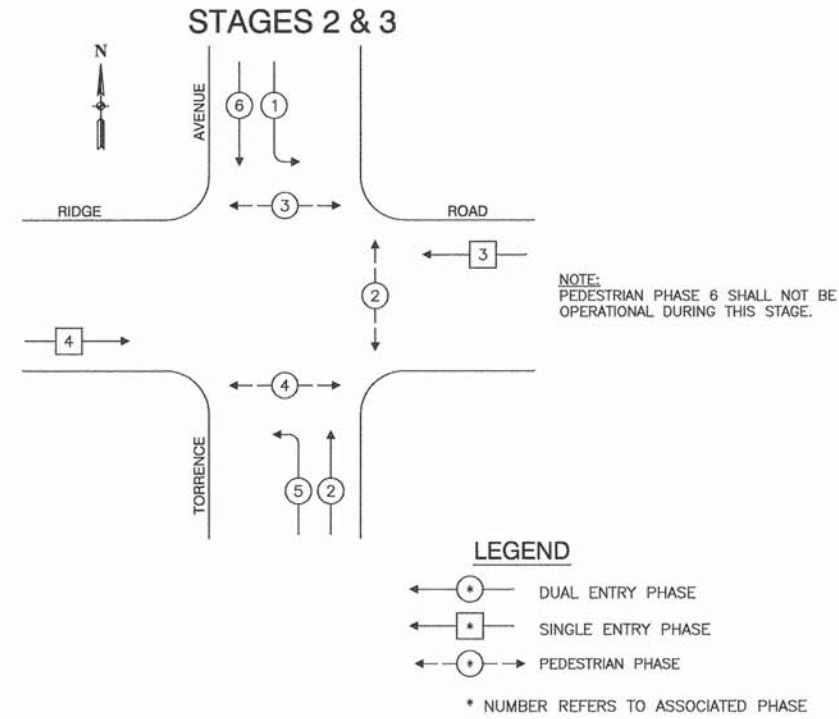
TEMPORARY CABLE PLAN

STAGE 1
NOT TO SCALE

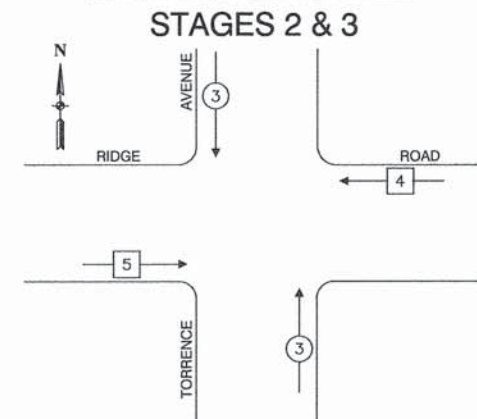
- NOTES:
- * SOUTH AND WEST LEG PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.
 - ** EAST AND WEST LEG YELLOW ARROWS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT
SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

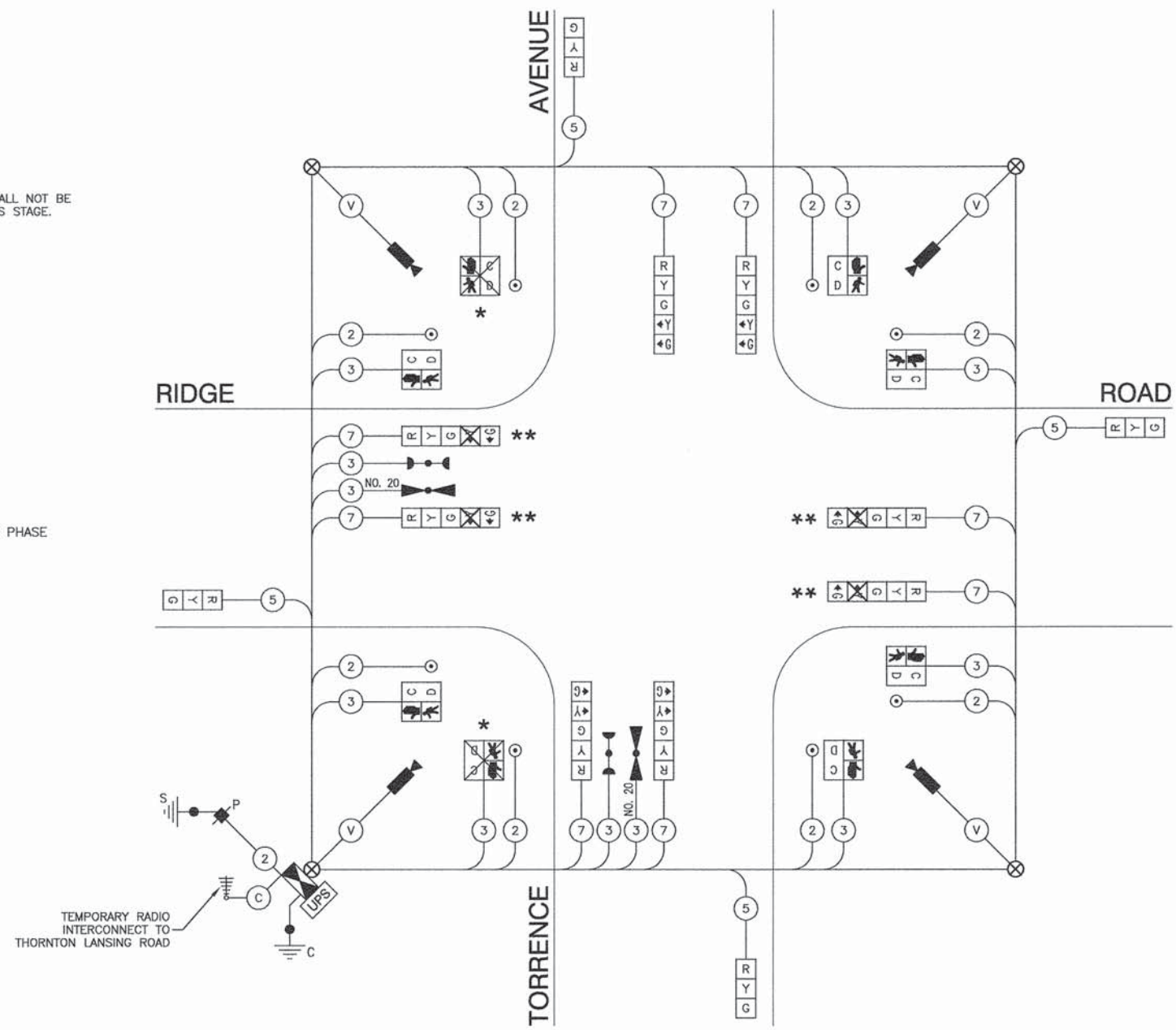
TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT	↑↑	←	↓



NOTES:
 * WEST LEG PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.
 ** EAST AND WEST LEG YELLOW ARROWS SHALL BE BAGGED AND DISCONNECTED DURING THIS STAGE.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	12		12	0.10	14.4
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	0		25	0.05	0
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 686.4

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER ST. SCHAMBURG, IL 60196-1096
 ENERGY SUPPLY CONTACT: BRAD SHINABARGER
 PHONE: (708)235-2692
 COMPANY: COMMONWEALTH EDISON

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

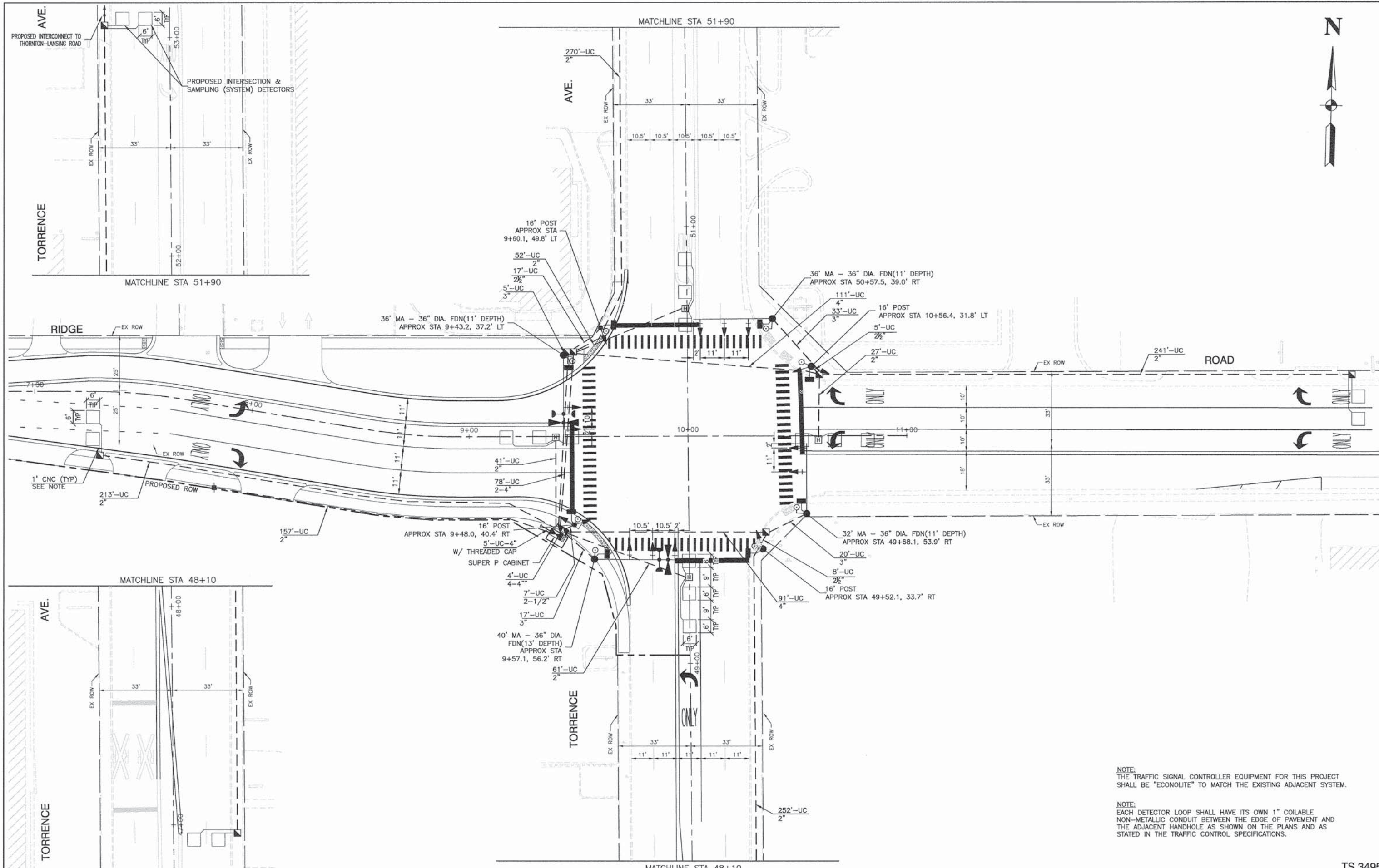
IL 83 / TORRENCE AVENUE AT RIDGE ROAD
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE - STAGE 2 & 3

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	37
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				

FILE NAME	USER NAME	DESIGNED	CHECKED	REVISIONS
07398_02-SGNL-CBLE-STGE-02 - P01	EA	EA	PB	
			KWM	
			APG	

PLOT SCALE =
PLOT DATE = 08-27-15

TS 3495



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
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 CONTROL SPECIFICATIONS.

FILE NAME = 07399_02-SGNL-02 - IDOT TS-2

USER NAME =	DESIGNED -- EA	REVISED --
PLOT SCALE =	CHECKED -- PB	REVISED --
PLOT DATE = 08-27-15	DRAWN -- JJB	REVISED --
	CHECKED -- EA	REVISED --

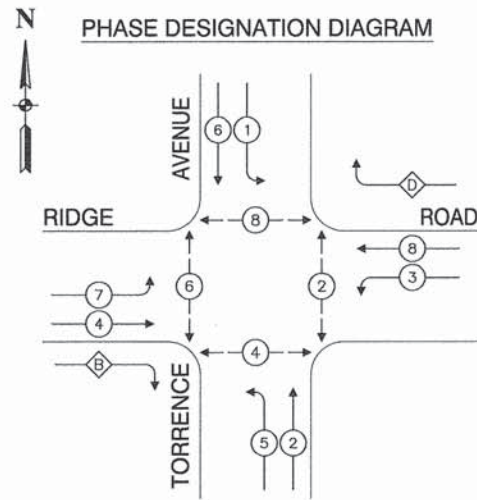
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
TRAFFIC SIGNAL INSTALLATION PLAN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	38
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	HSIP-8003(848)	

SCALE: 1"=20' SHEET NO. 38 OF 53 SHEETS STA. TO STA.

TS 3495

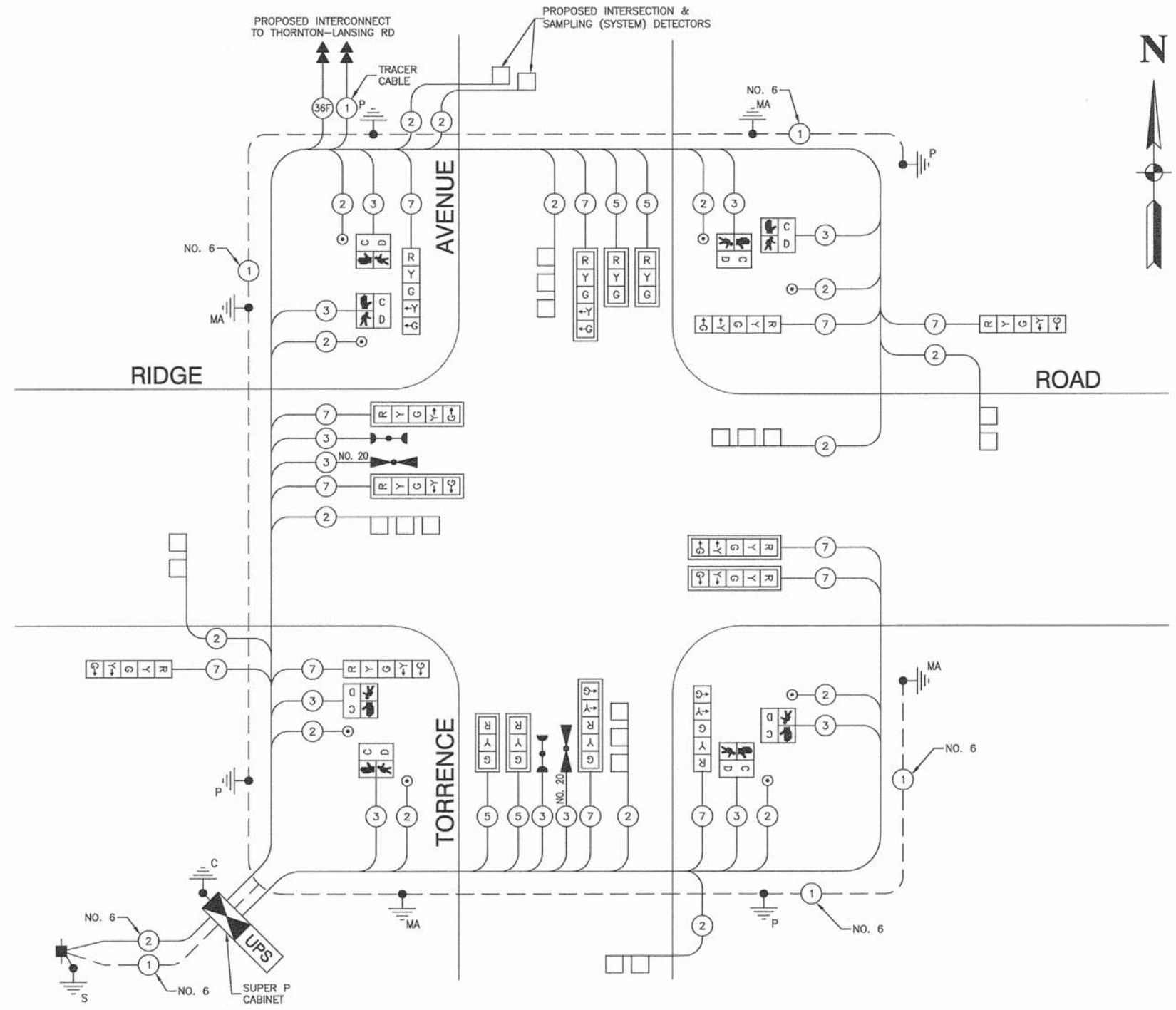
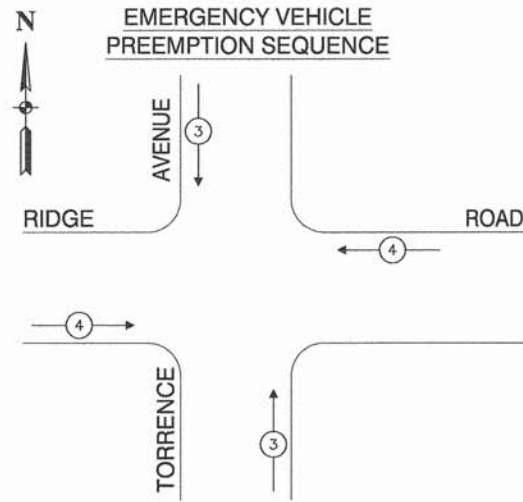


OVERLAP LETTER PERMISSIVE PHASE PROTECTED PHASE
 B = 4 + 5
 D = 8 + 1

LEGEND

- ← (•) → DUAL ENTRY PHASE
- ← (◊) → OVERLAP
- ← (•) → PEDESTRIAN PHASE

* NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	16		17	0.50	136
(YELLOW)	16		25	0.25	100
(GREEN)	16		15	0.25	60
ARROW	24		12	0.10	28.8
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	0		25	0.05	0
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	624.8

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER ST. SCHAMBERG, IL 60196-1096
 ENERGY SUPPLY CONTACT: BRAD SHINABARGER
 PHONE: (708)235-2692
 COMPANY: COMMONWEALTH EDISON

NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 07398_02-SGNL_CBLE-02 - IDOT P01	USER NAME =	DESIGNED -- EA	REVISED --
		CHECKED -- PB	REVISED --
	PLOT SCALE =	DRAWN -- KWM	REVISED --
	PLOT DATE = 08-27-15	CHECKED -- APG	REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

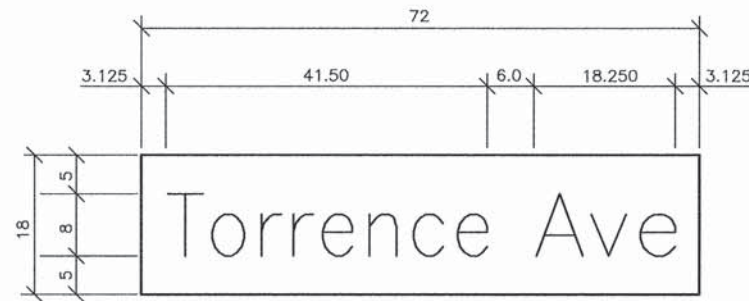
IL 83 / TORRENCE AVENUE AT RIDGE ROAD
 CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND
 EMERGENCY VEHICLE PREEMPTION SEQUENCE

SCALE: SHEET NO. 39 OF 53 SHEETS STA. TO STA.

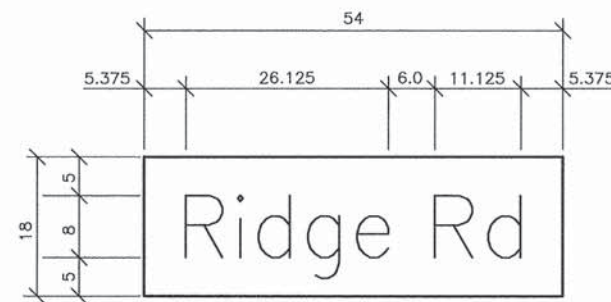
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	39
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(B48)				

TS 3495

SIGN PANEL - TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	TYPE 1	ZZ	2



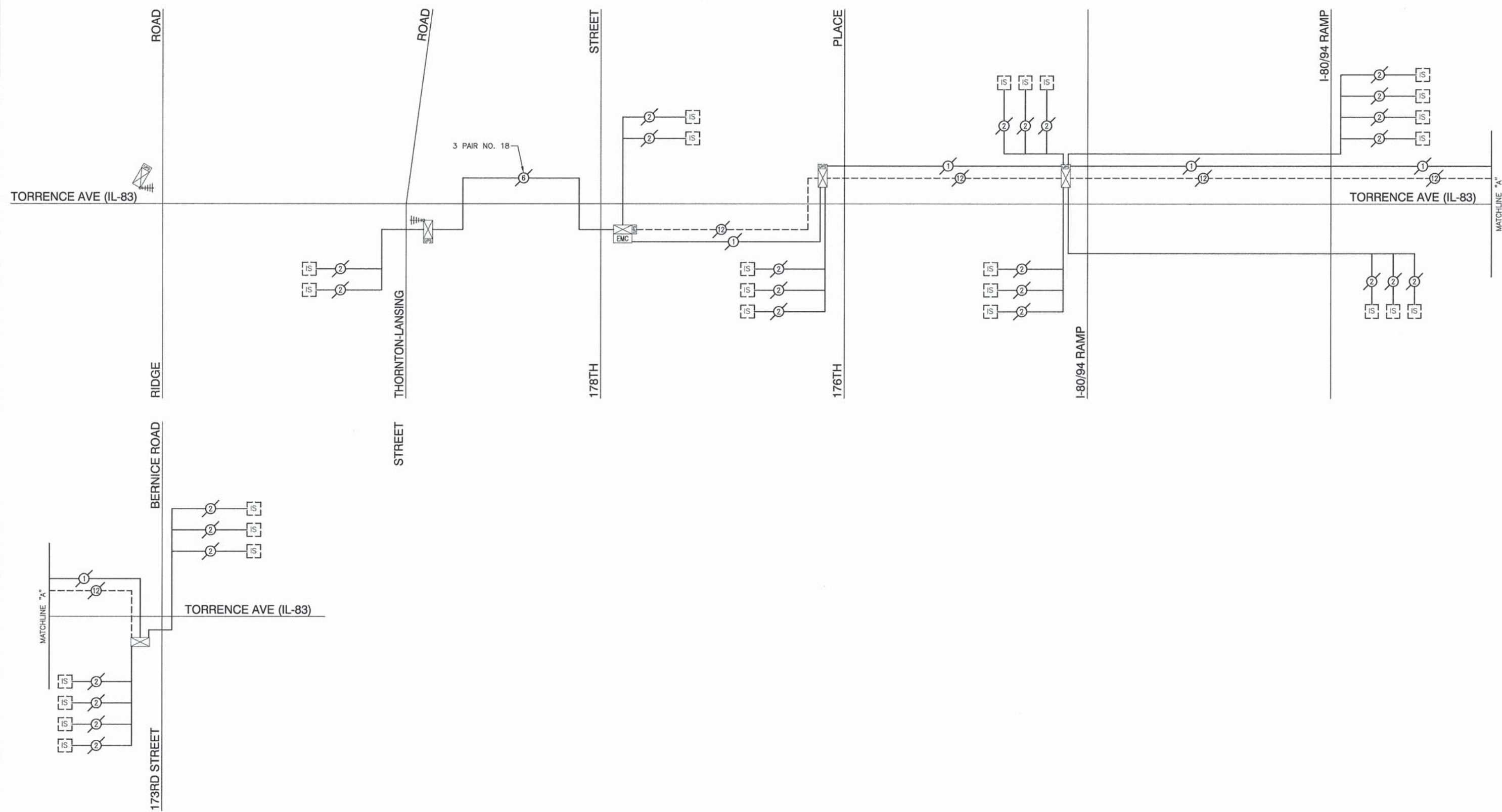
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	TYPE 1	ZZ	2

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	31.5
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1326
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	37
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	75
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	383
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1174
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1496
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	781
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2041
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2098
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	189
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	610
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	46
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	664
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	266
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 08-27-15	CHECKED -- AG	REVISED --



NOTES:
 1. TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM.

ECON 70

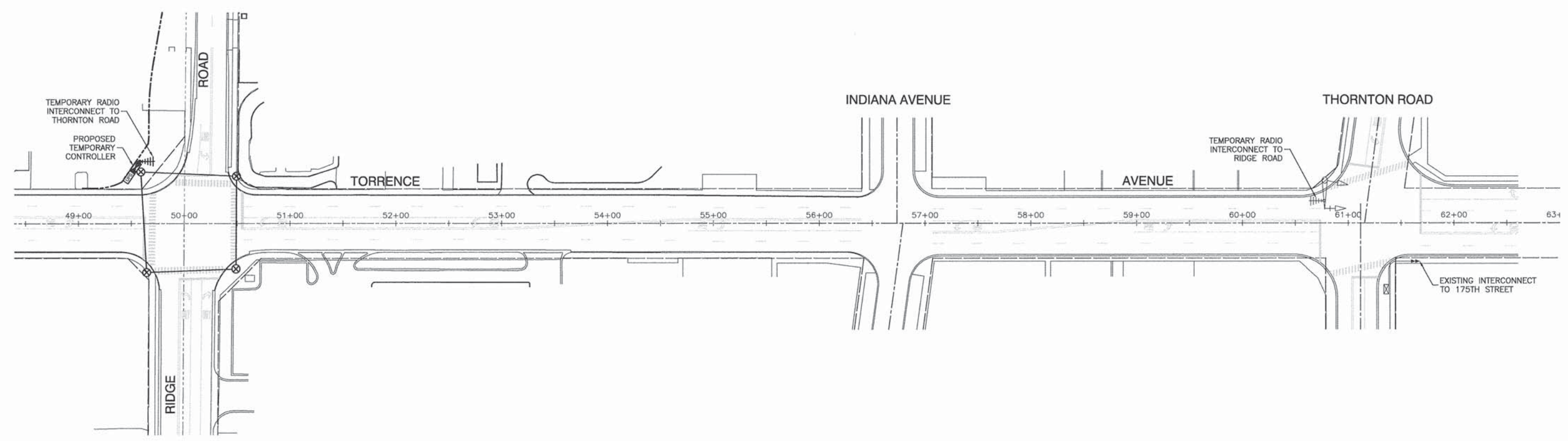
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USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT RIDGE ROAD TEMPORARY RADIO INTERCONNECT PLAN	
SCALE: NONE	SHEET NO. 41 OF 53 SHEETS
STA.	TO STA.

F.A.U. RTE. 1621	SECTION 07-00165-00-TL	COUNTY COOK	TOTAL SHEETS 53	SHEET NO. 41
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT HSIP-6003(648)	
CONTRACT NO. 61B76				



ECON 70

FILE NAME = 07398_02-SGNL-INTR-01 - IDOT P01

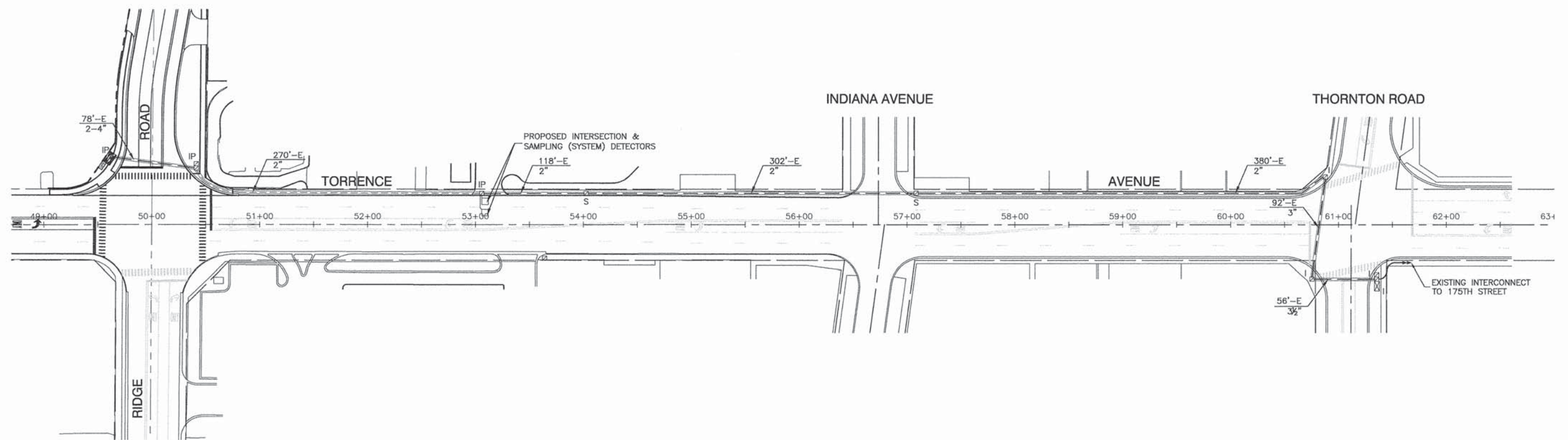
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	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 08-27-15	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
TEMPORARY RADIO INTERCONNECT PLAN

SCALE: 1"=50' SHEET NO. 42 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	42
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				



FILE NAME = 07388_02-SGNL-INTR-02 - IDOT P01

USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 08-27-15	CHECKED -- AG	REVISED --

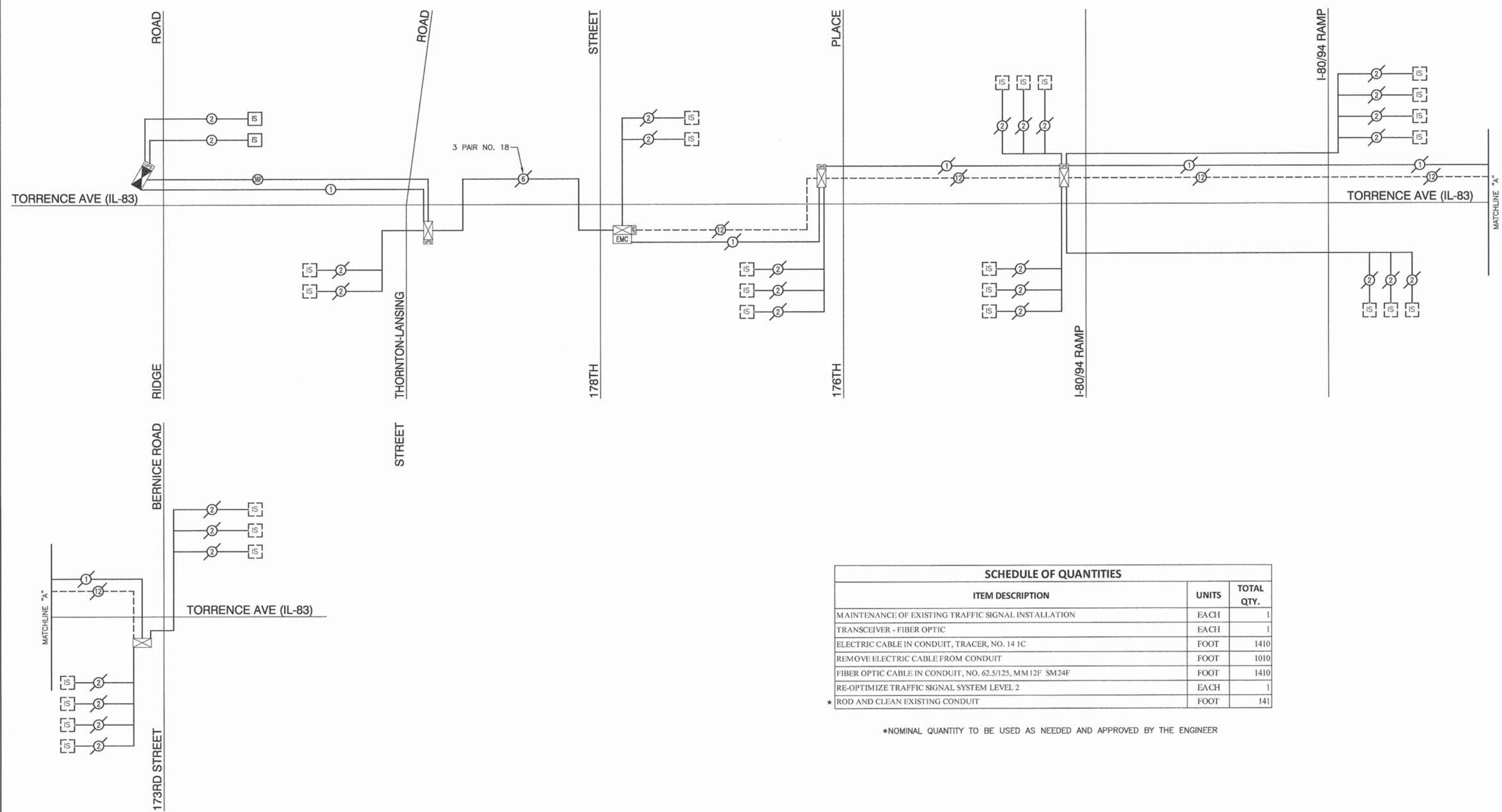
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
PROPOSED INTERCONNECT PLAN**

SCALE: 1"=50' SHEET NO. 43 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	43
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HSIP-8003(B46)		

ECON 70



SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1410
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1010
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM 12F SM24F	FOOT	1410
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
* ROD AND CLEAN EXISTING CONDUIT	FOOT	141

*NOMINAL QUANTITY TO BE USED AS NEEDED AND APPROVED BY THE ENGINEER

- NOTES:
1. TRAFFIC SIGNAL EQUIPMENT SHALL BE ECONOLITE TO MATCH THE ADJACENT EXISTING SYSTEM.

ECON 70

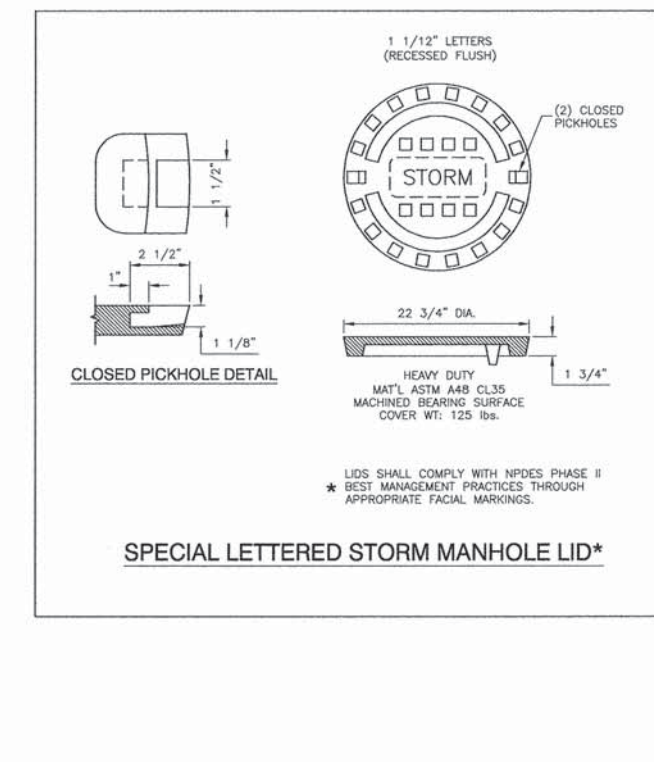
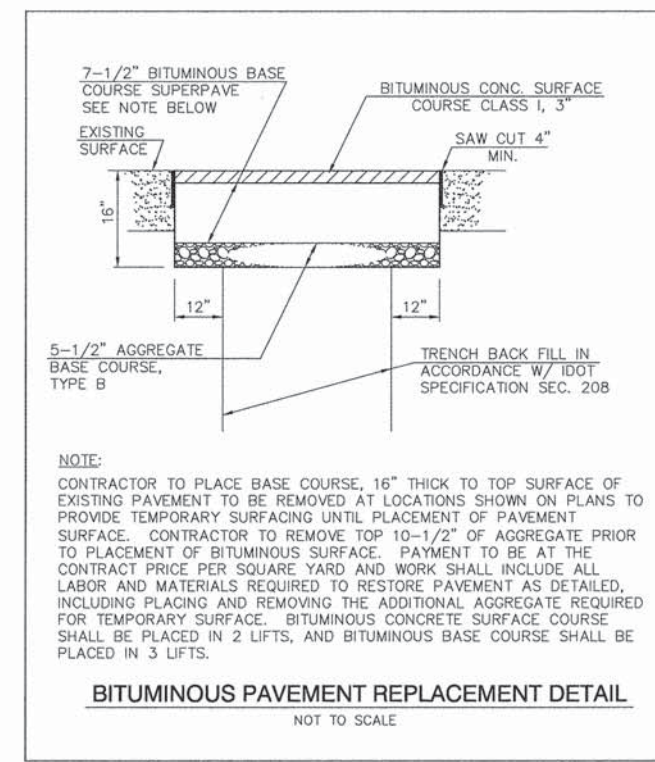
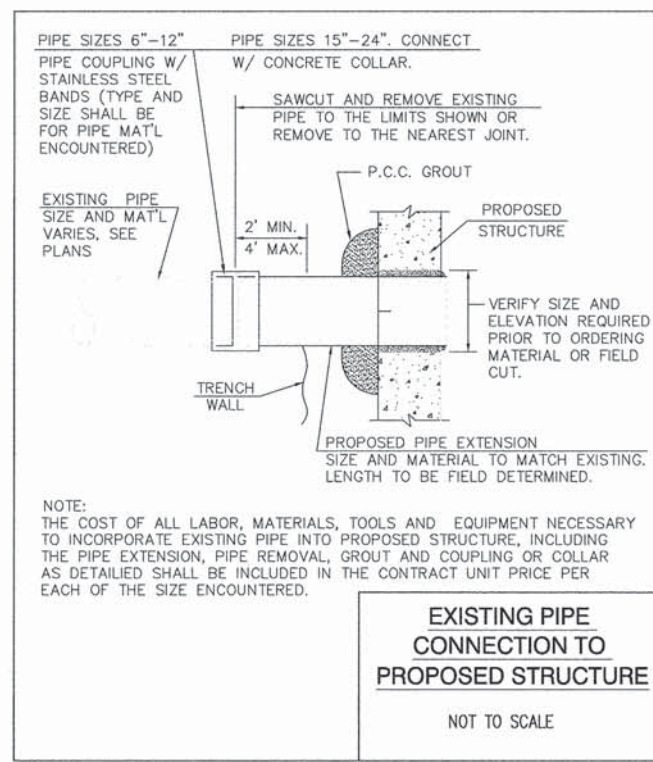
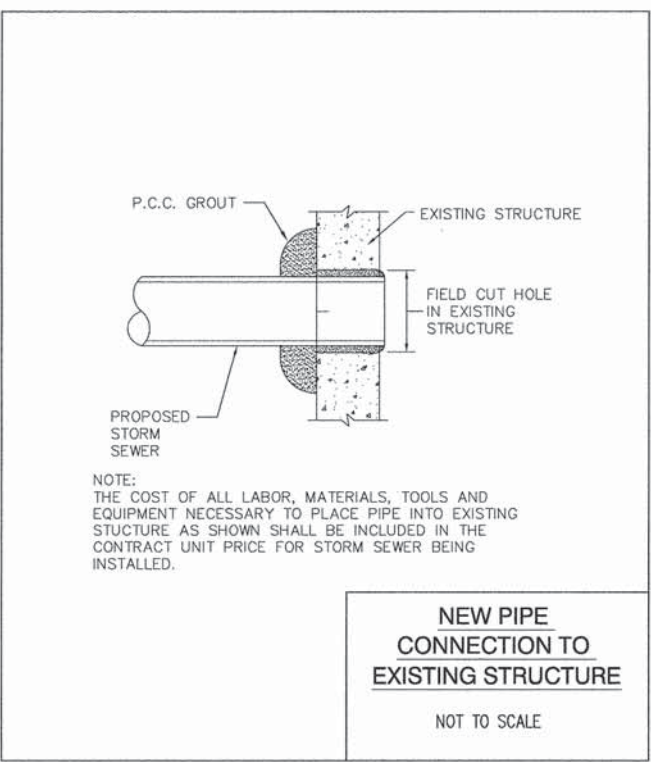
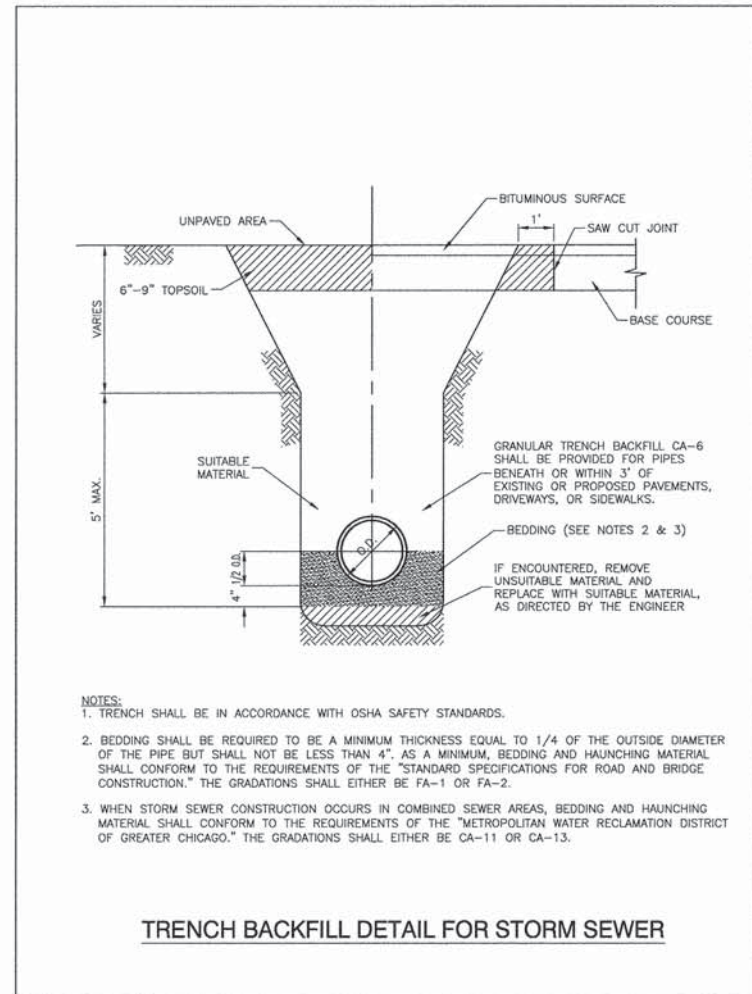
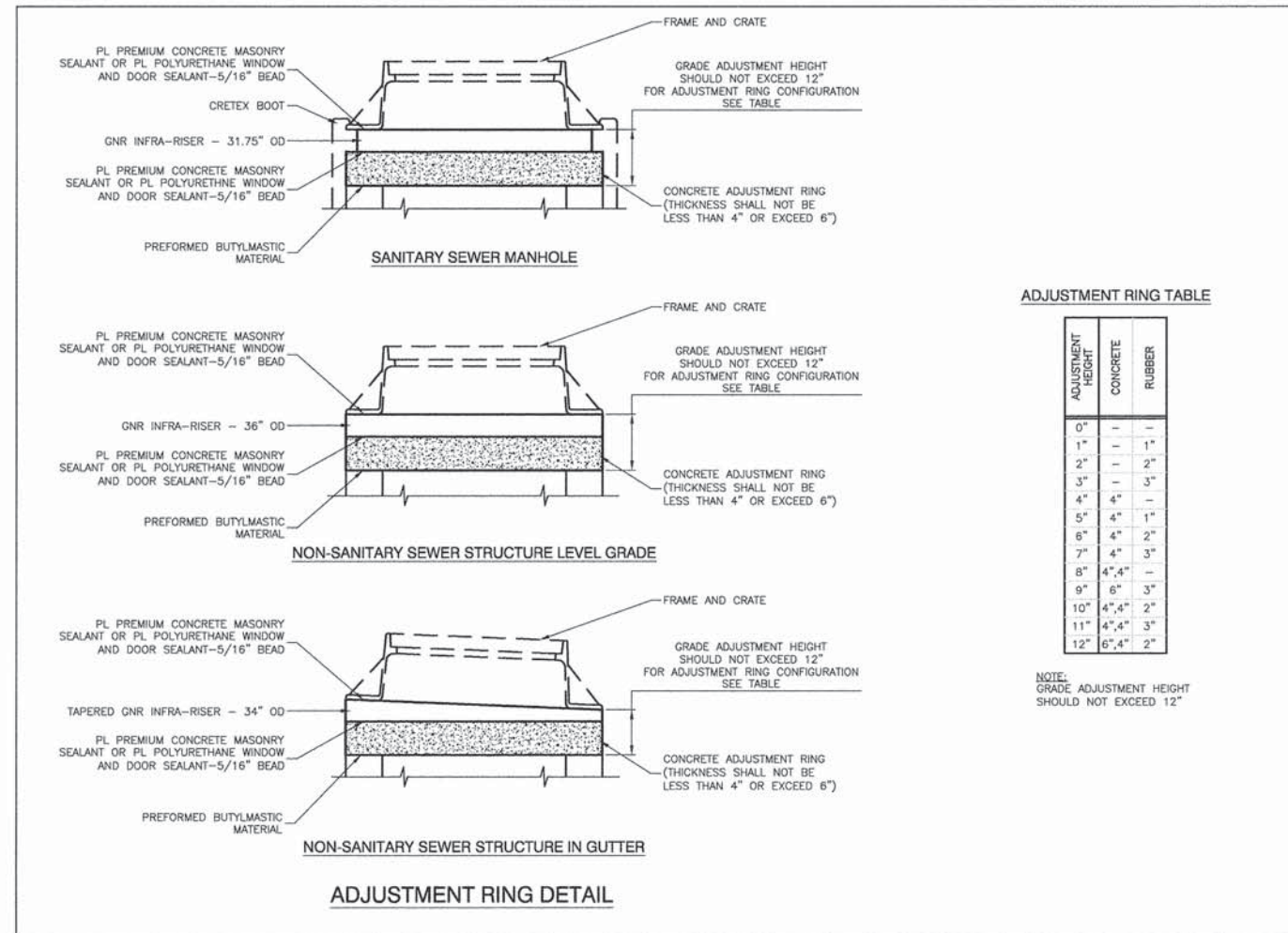
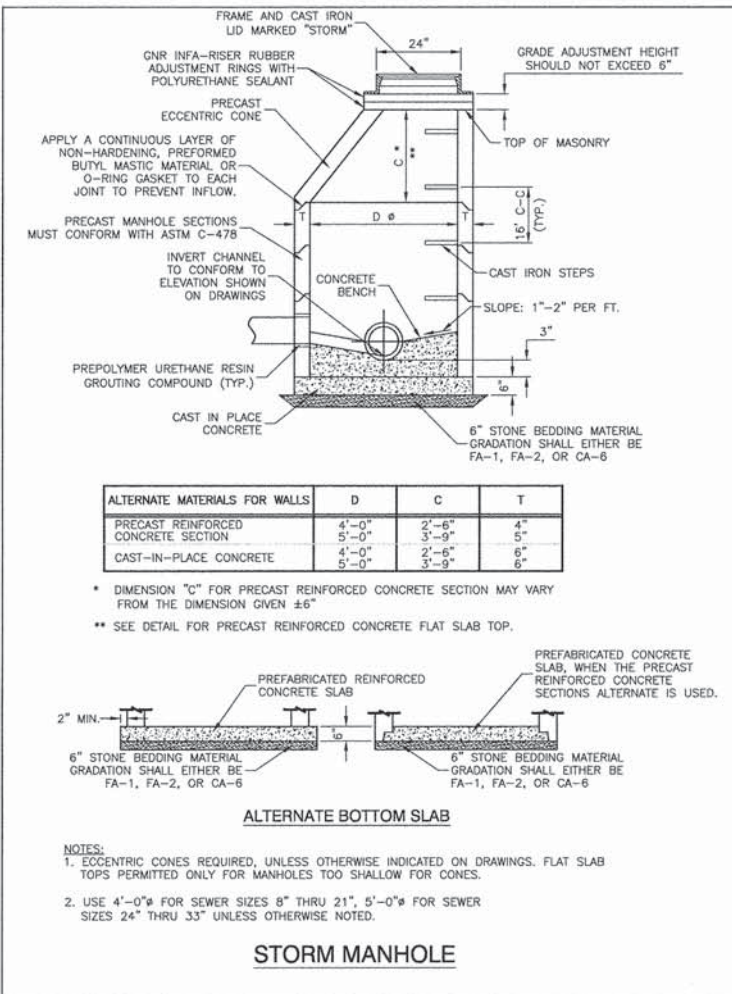
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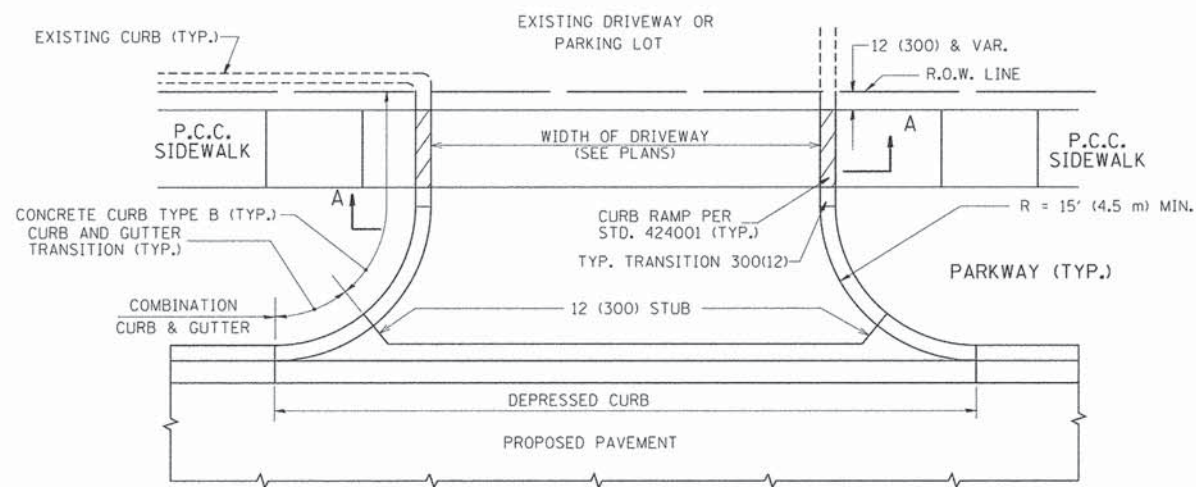
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	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

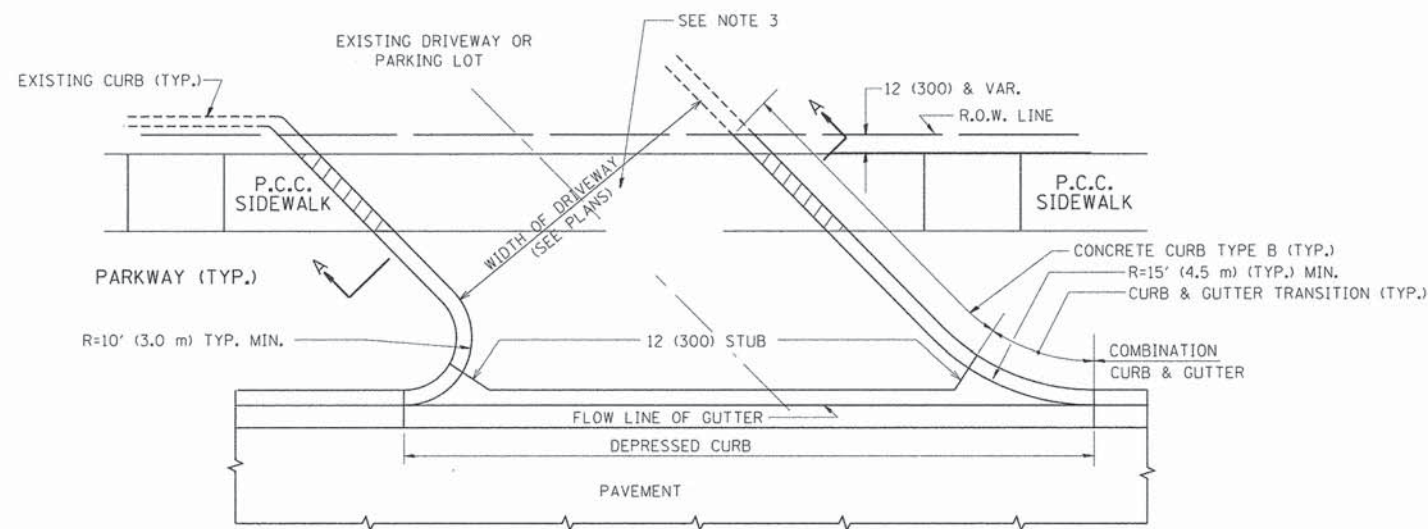
IL 83 / TORRENCE AVENUE AT RIDGE ROAD PROPOSED INTERCONNECT SCHEMATIC	
SCALE: NONE	SHEET NO. 44 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	44
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				

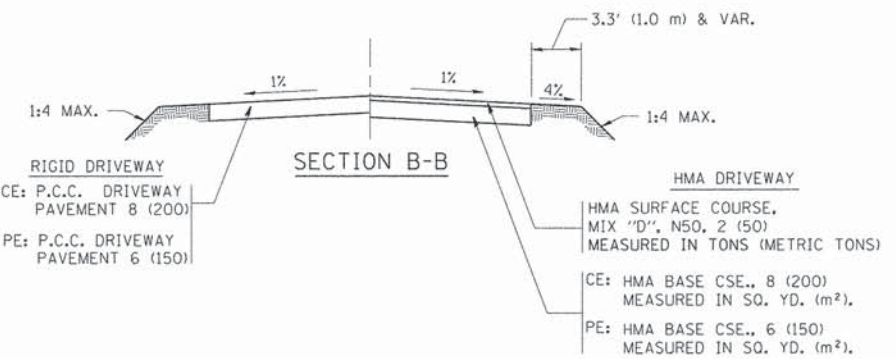
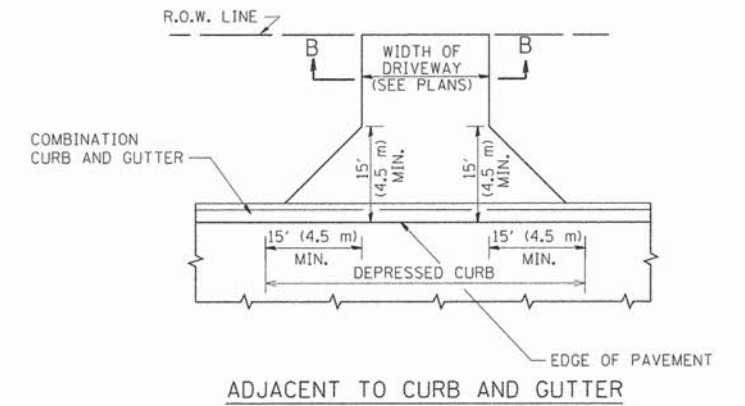
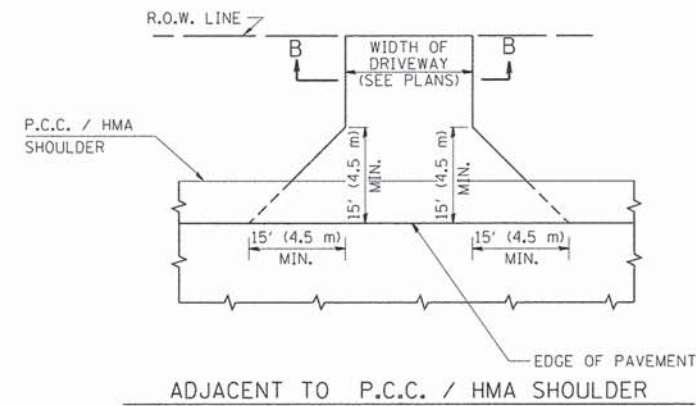
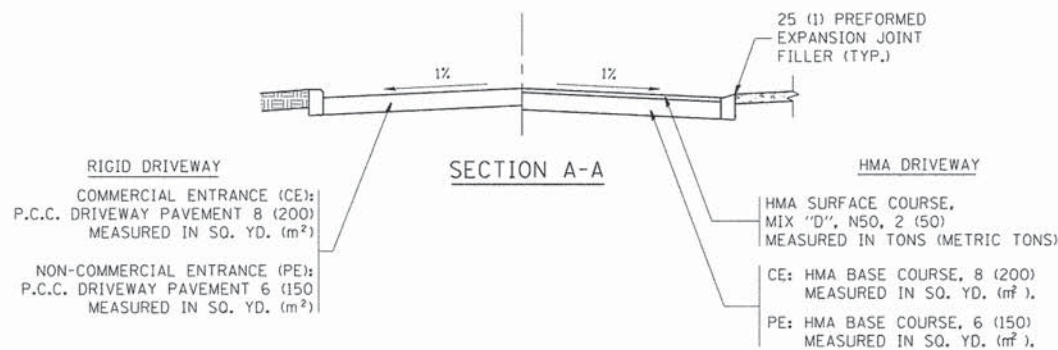




WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

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

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

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

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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

FILE NAME = 07398_02-DTUS-02 - BD-01

USER NAME = tejsa

DESIGNED - R. SHAH

REVISED - P. LoFLUER 04-15-03

CHECKED -

CHECKED -

REVISED - R. BORO 01-01-07

PLOT SCALE = 50,000 / 1"

DRAWN -

REVISED - R. BORO 06-11-08

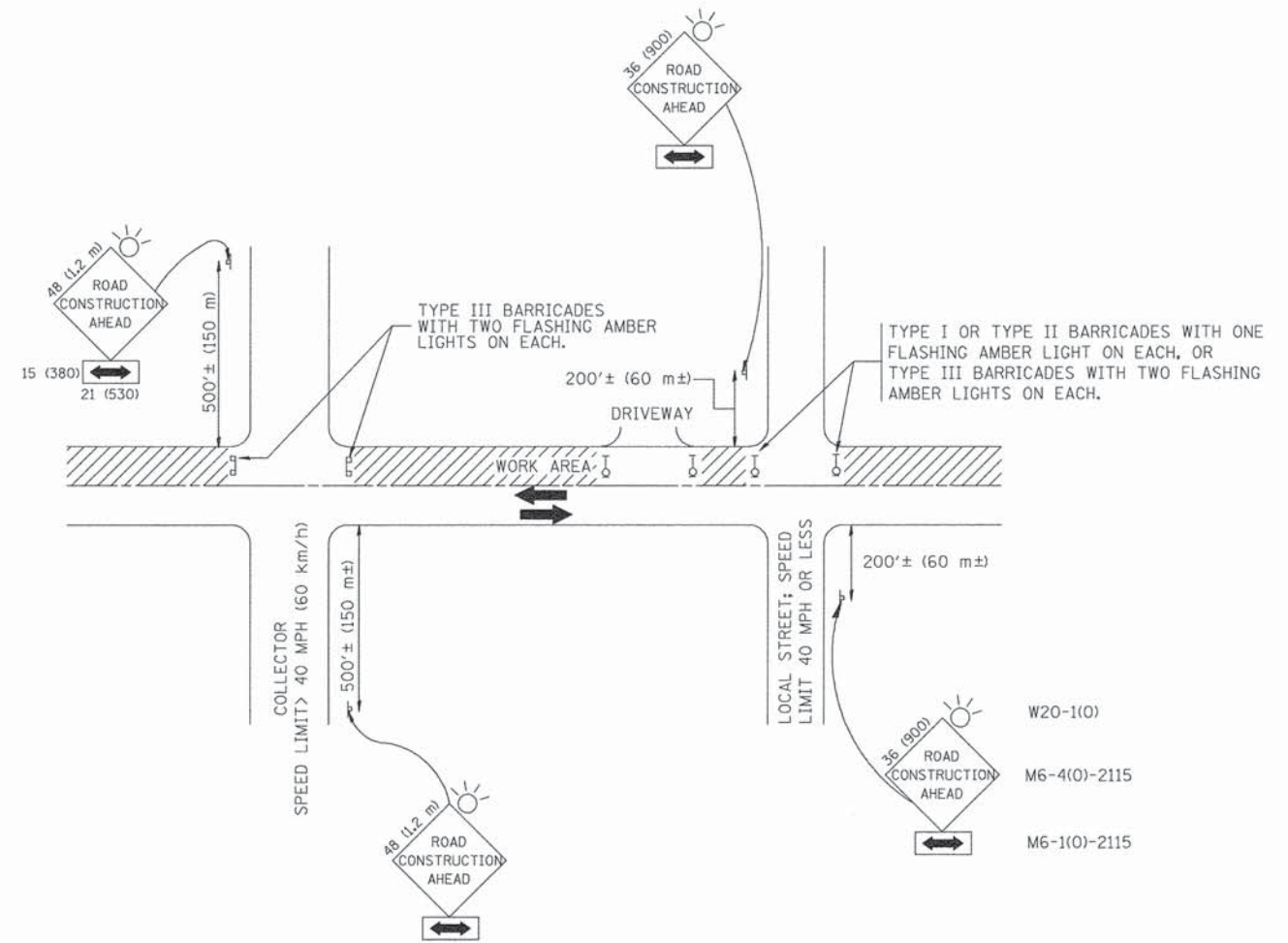
PLOT DATE = 9/6/2011

CHECKED - 11-04-95

REVISED - R. BORO 09-06-11

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	53	46
BD0156-07 (BD-01)			CONTRACT NO. 61B76	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

NOTES:

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

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

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

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

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

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

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

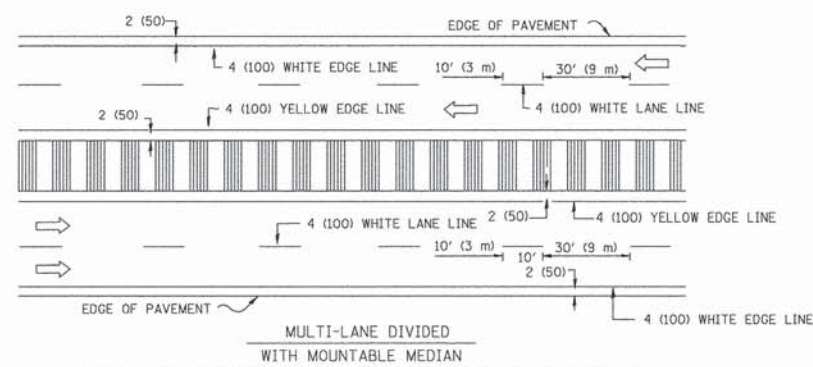
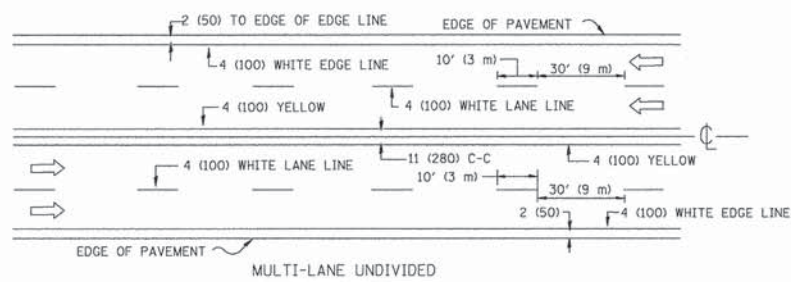
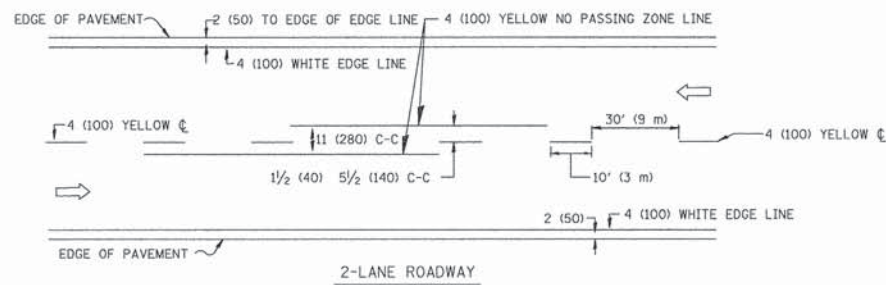
FILE NAME = 07388_02-DTLS-02 - TC-01	USER NAME = USER NAME = goglianobt	DESIGNED -- LHA	REVISD -- J. OBERLE 10-18-95
		CHECKED --	REVISD -- A. HOUSEH 03-06-96
	PLOT SCALE = PLOT SCALE = 50.000' / IN.	DRAWN --	REVISD -- A. HOUSEH 10-15-96
	PLOT DATE = PLOT DATE = 1/4/2008	CHECKED -- 06-89	REVISD -- T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

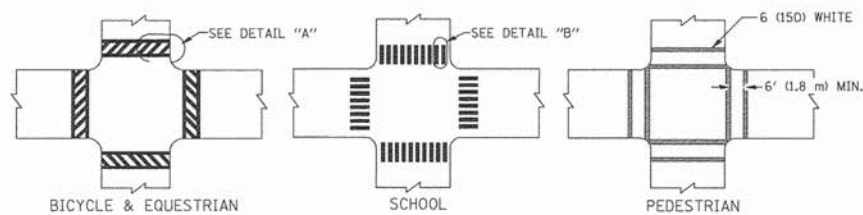
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-10	COOK	53	47
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B76	

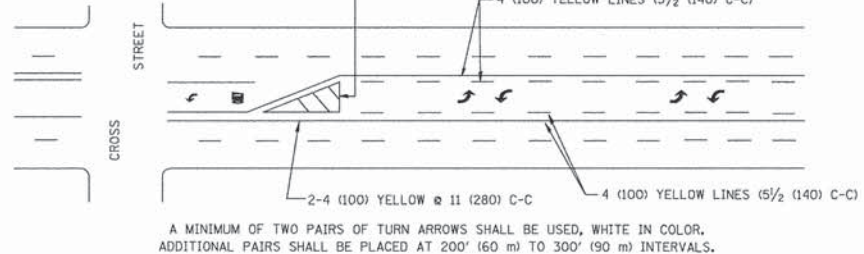
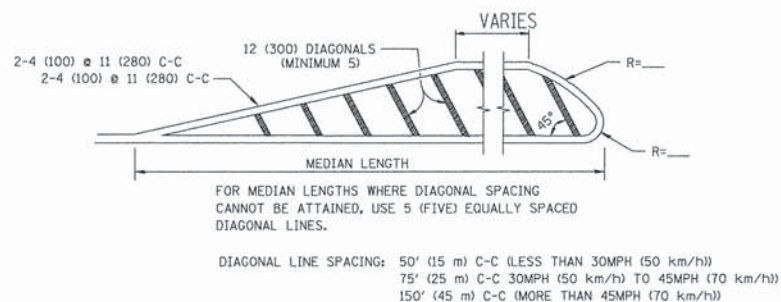
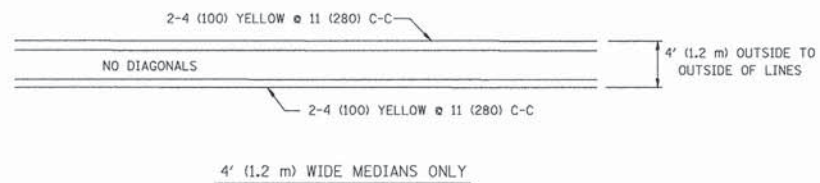


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

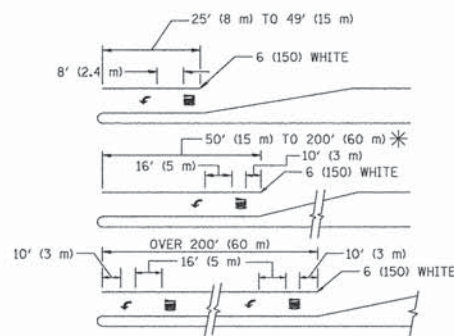
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



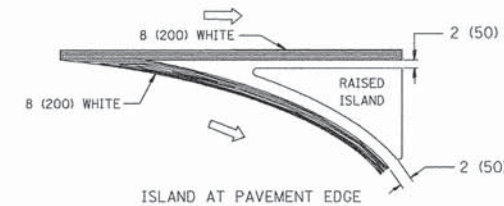
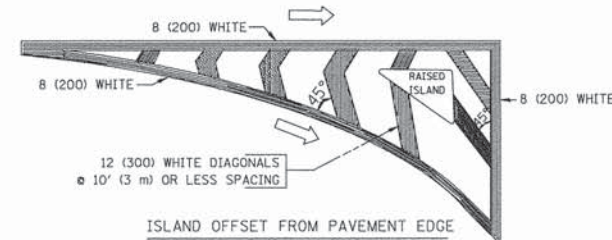
TYPICAL PAINTED MEDIAN MARKING



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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

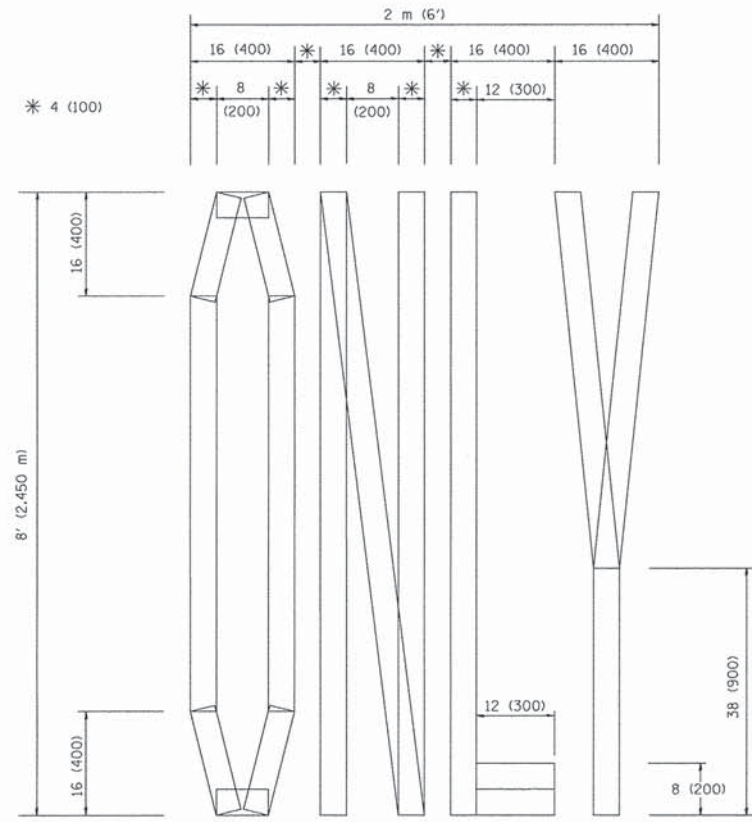


TYPICAL ISLAND MARKING

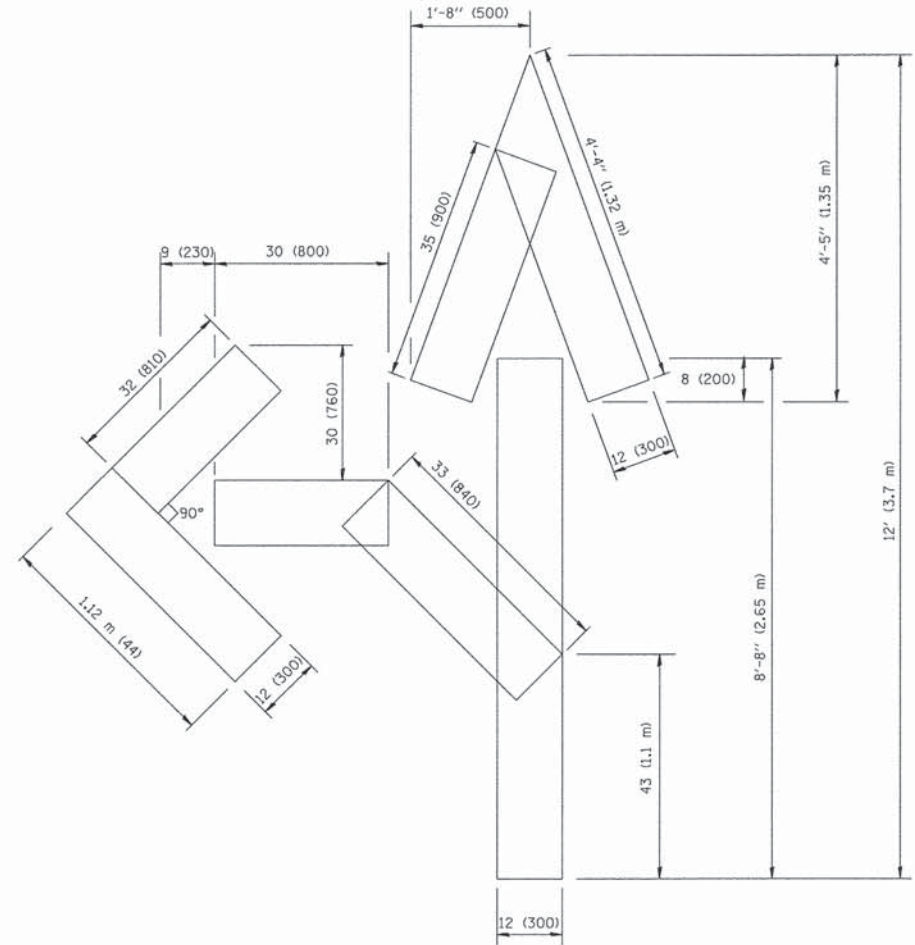
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID	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" 15 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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

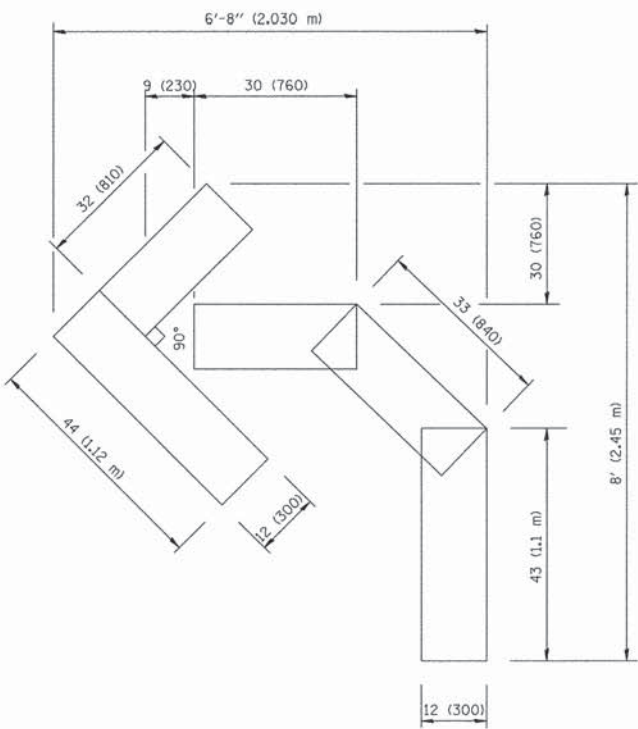
All dimensions are in inches (millimeters) unless otherwise shown.



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = 07398_02-DTIS-02 - TC-16	USER NAME = geglanoht	DESIGNED —	REVISED —T. RAMMACHER 06-05-96
		CHECKED —	REVISED —T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000' / IN.	DRAWN —	REVISED —T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	CHECKED — 09-18-94	REVISED —E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE:	SHEET NO. 3	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	53	49
TC-16			CONTRACT NO. 61B76	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

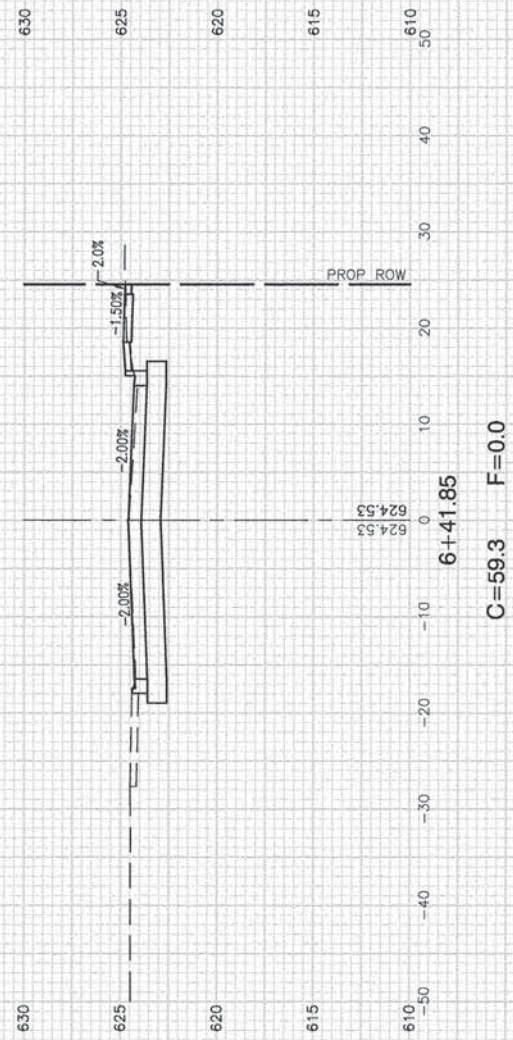
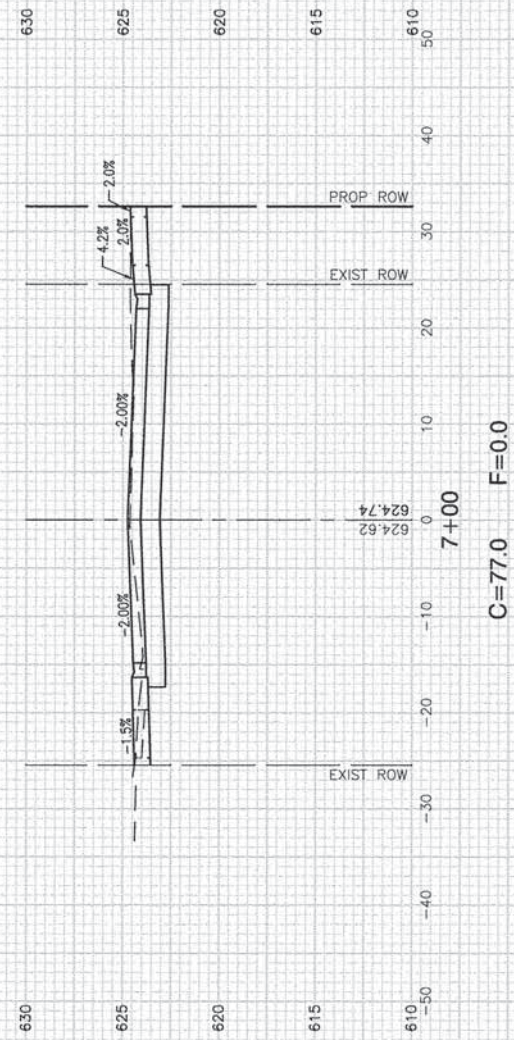
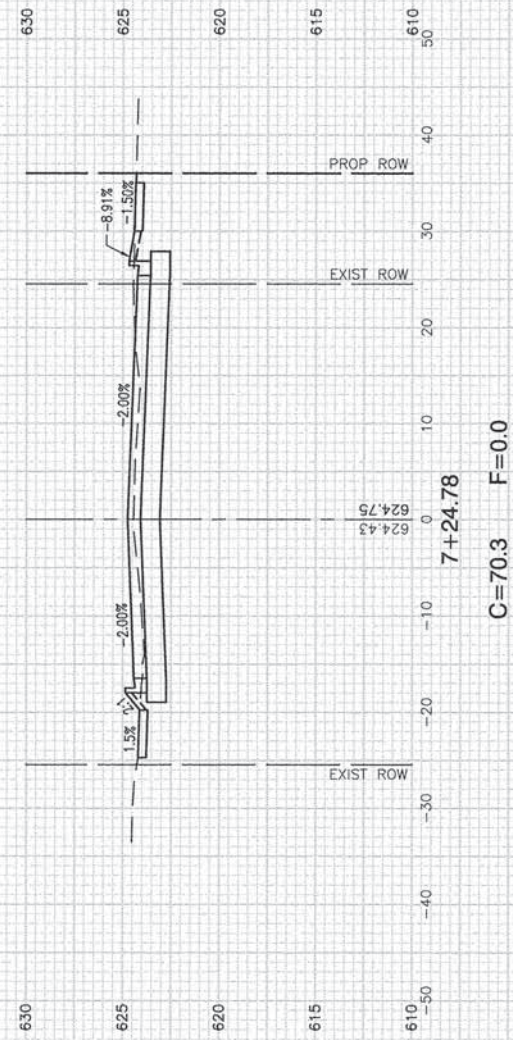
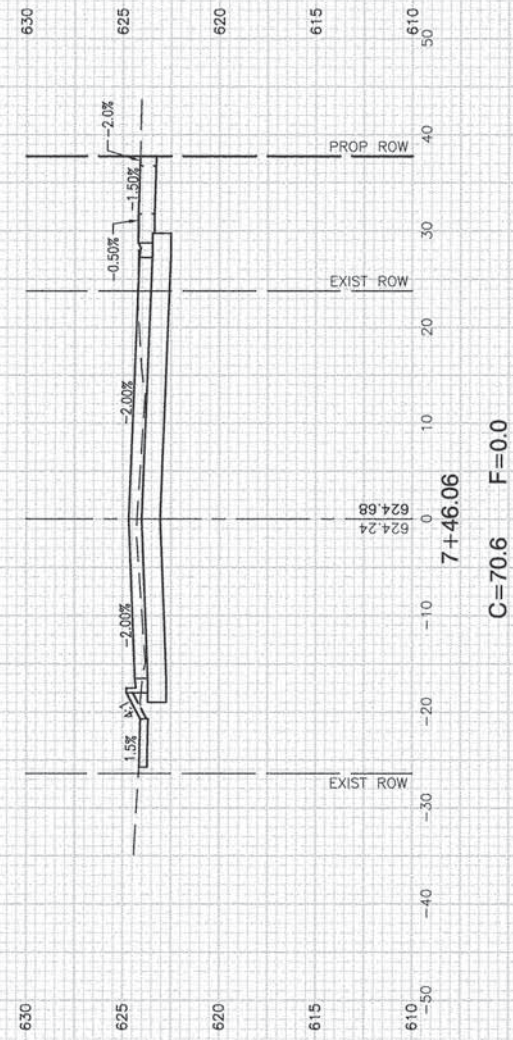


3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = 07398_02-DTLS-03 - TC-26		USER NAME = USER NAME = gaglianobt	DESIGNED --	REVISED -- C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			CHECKED --	REVISED --							COOK	53	50
		PLOT SCALE = PLOT SCALE = 50,000' / 1in.	DRAWN --	REVISED --					TC-26		CONTRACT NO. 61B76		
		PLOT DATE = PLOT DATE = 12/13/2012	CHECKED --	REVISED --		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



FILE NAME = 07398_02-XSCT-01 - (1)

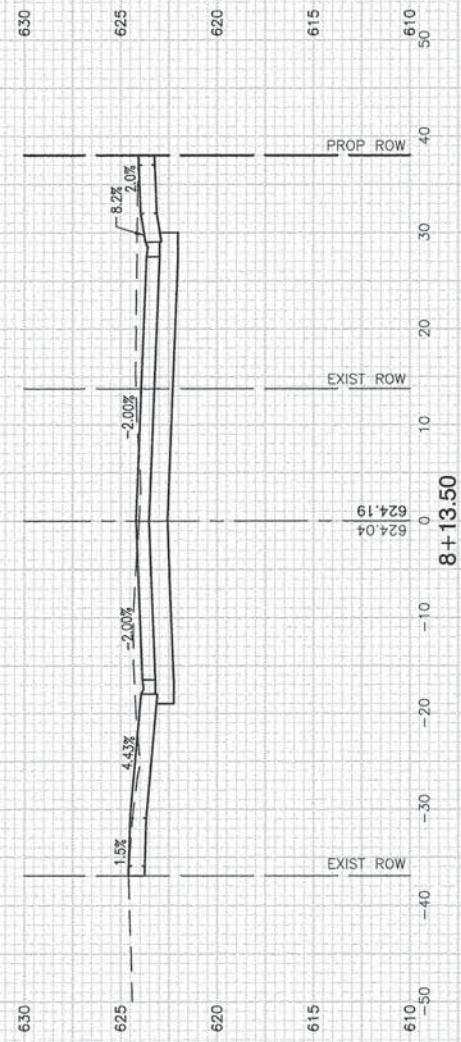
USER NAME =	DESIGNED -- EA	REVISED --
	CHECKED -- PB	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 08-27-15	CHECKED -- EA	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

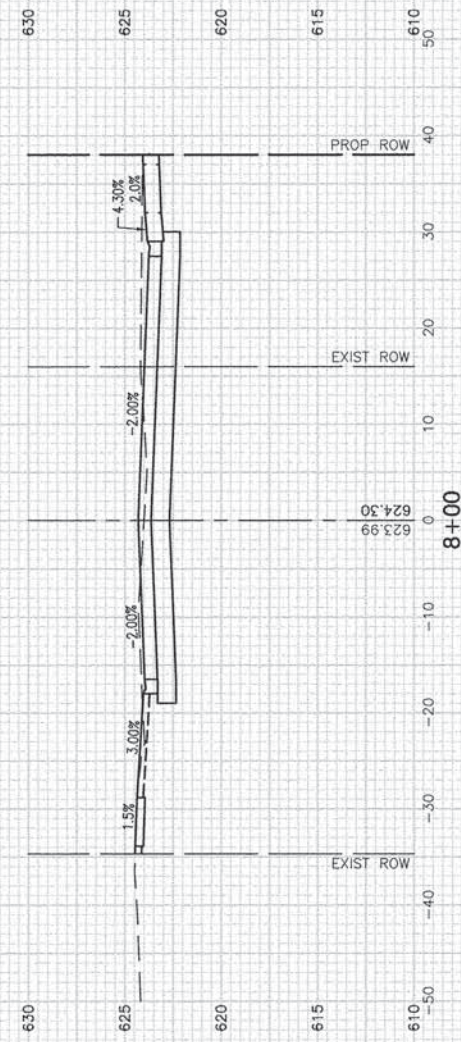
IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
CROSS SECTIONS

SCALE: H 1"=10' V 1"=5' SHEET NO. 51 OF 53 SHEETS STA. TO STA.

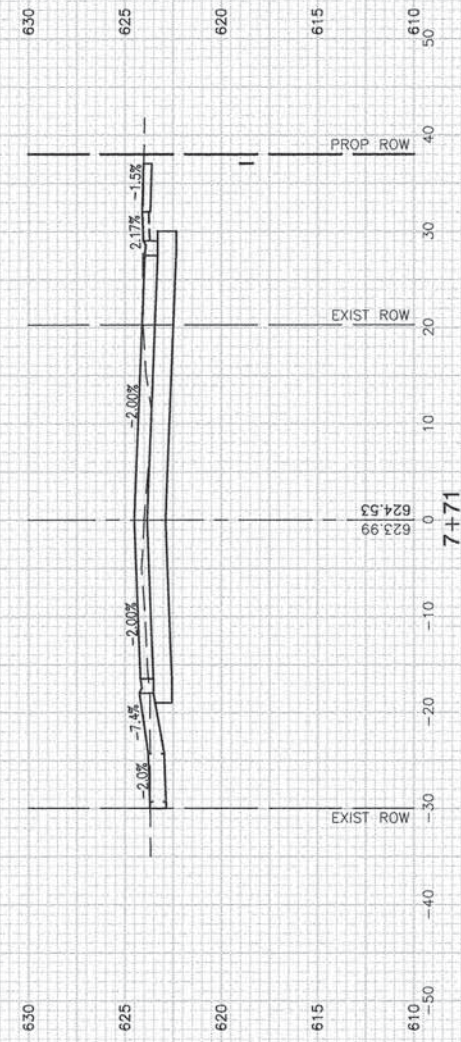
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	51
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT HSIP-8003(848)	
		CONTRACT NO. 61B76		



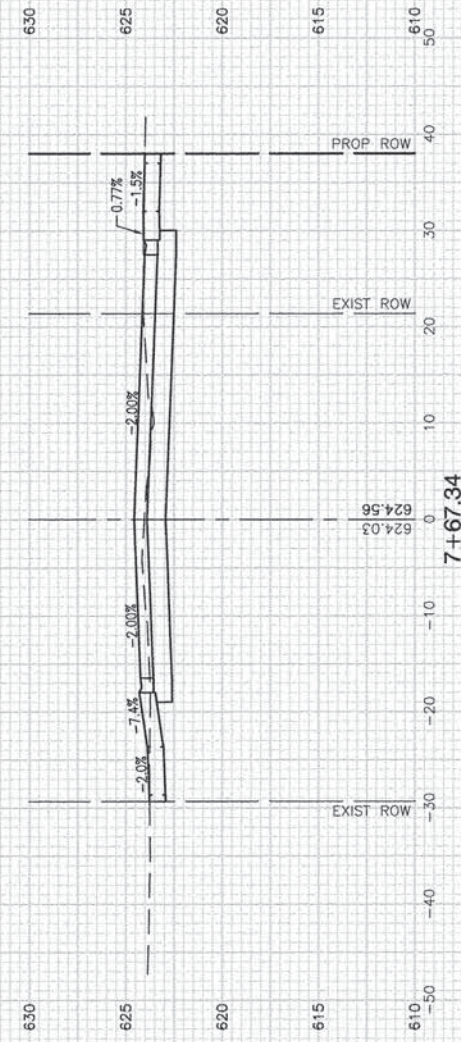
C=112.5 F=0.0



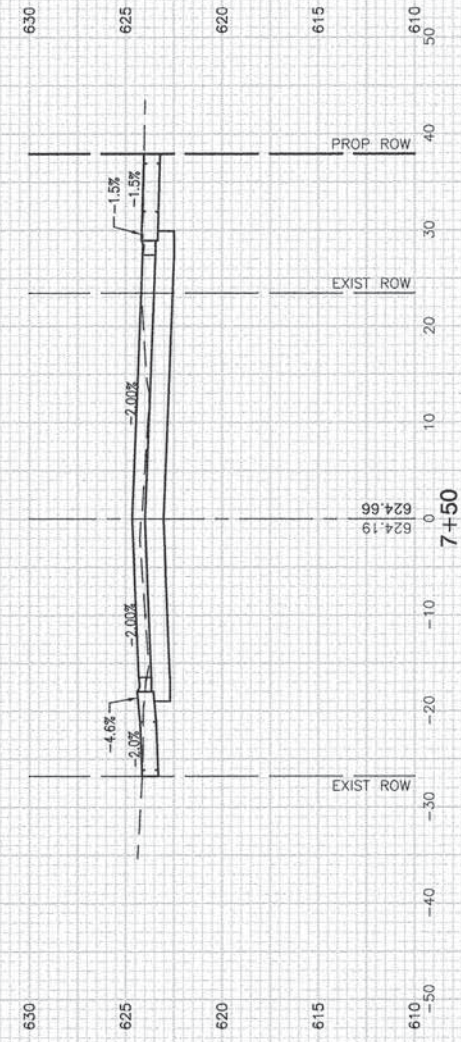
C=94.5 F=0.0



C=72.7 F=0.0



C=74.9 F=0.0



C=72.9 F=0.0

FILE NAME = 07399_02-XSCT-01 - (2)

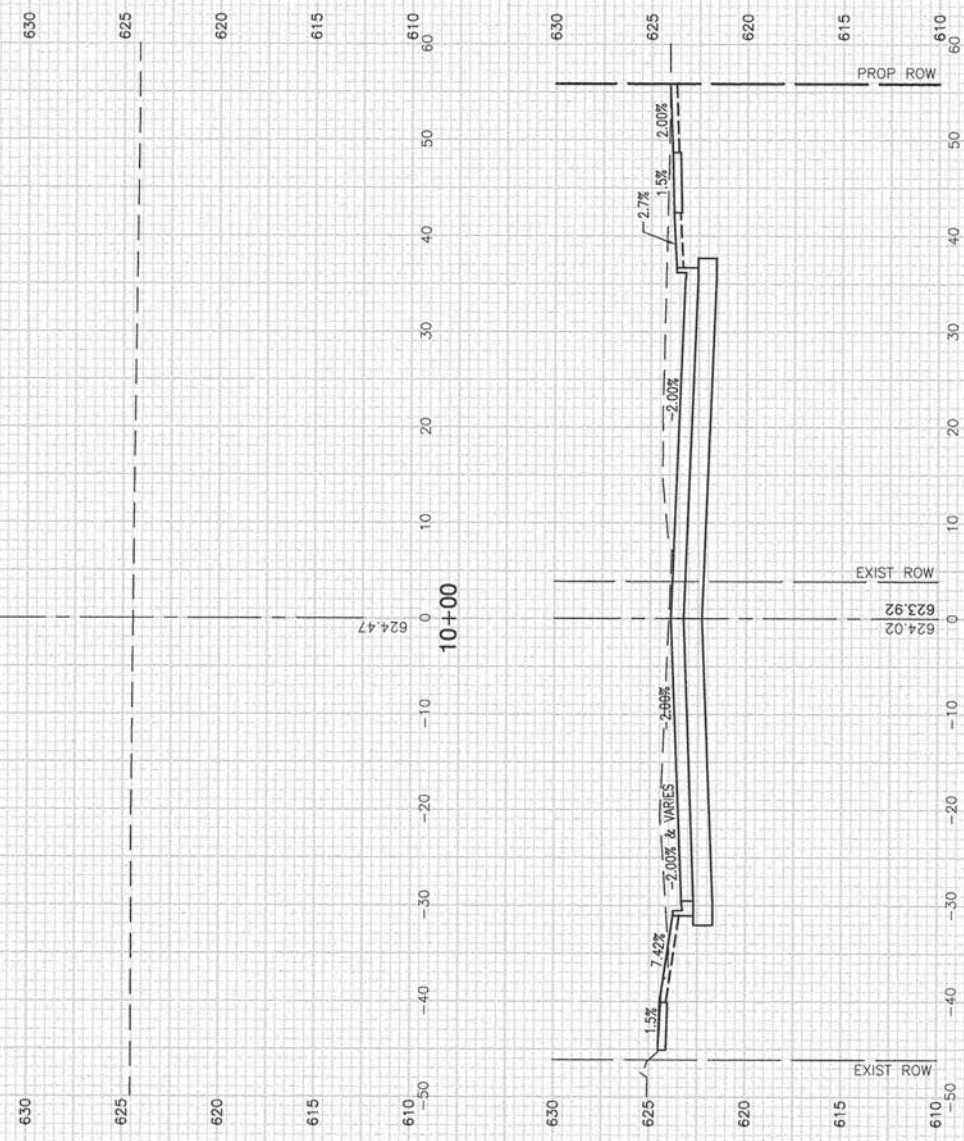
USER NAME =	DESIGNED — EA	REVISED —
	CHECKED — PB	REVISED —
PLOT SCALE =	DRAWN — JJB	REVISED —
PLOT DATE = 08-27-15	CHECKED — EA	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

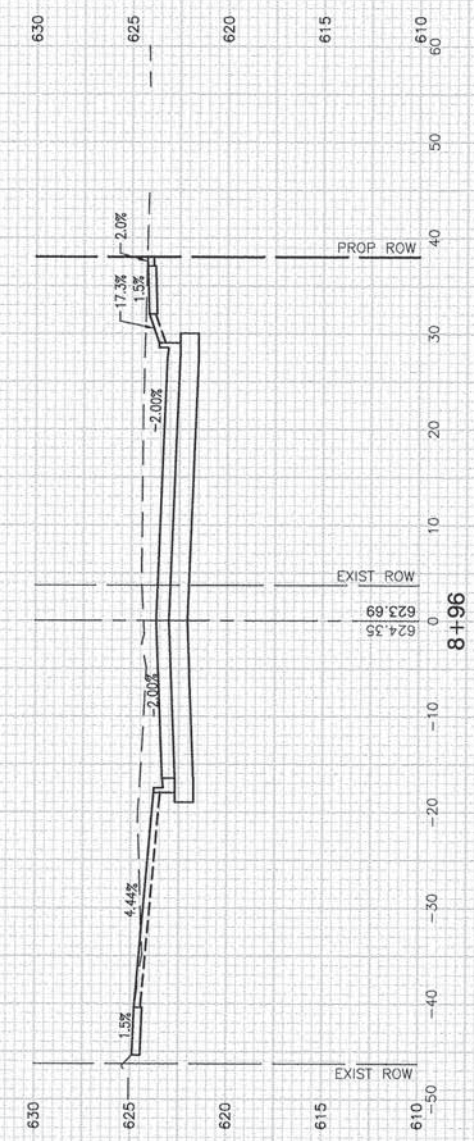
IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
CROSS SECTIONS

SCALE: H 1"=10' V 1"=5' SHEET NO. 52 OF 53 SHEETS STA. TO STA.

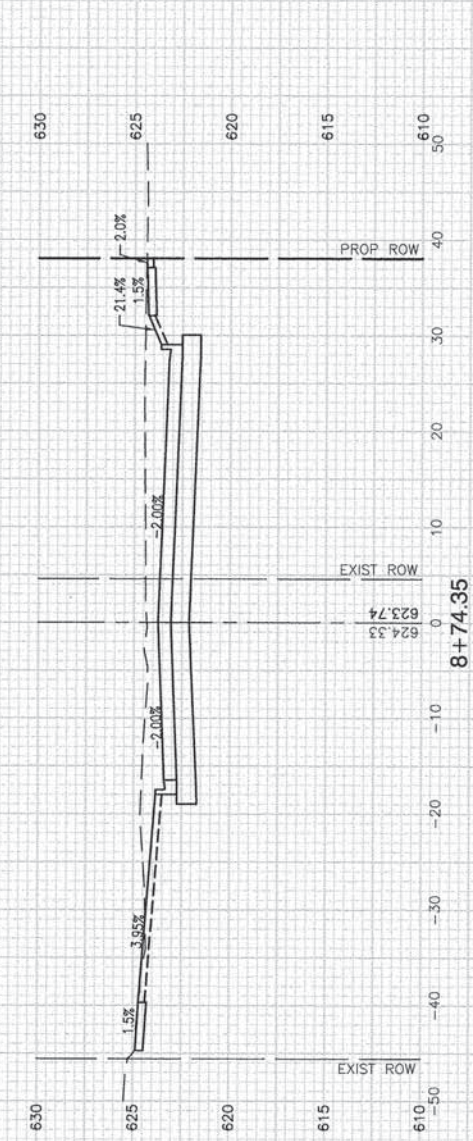
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	52
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	HSIP-8003(848)	



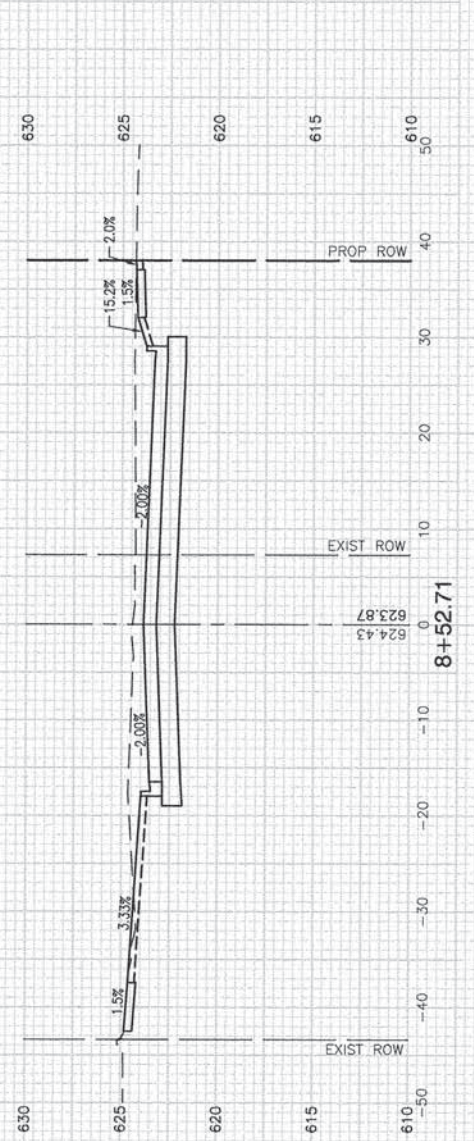
C=173.7 F=0.0



C=144.6 F=0.0



C=144.7 F=0.0



C=132.5 F=0.0

FILE NAME = 07398_02-XSCT-01 - (3)

USER NAME =	DESIGNED — EA	REVISED —
PLOT SCALE =	CHECKED — PB	REVISED —
PLOT DATE = 08-27-15	DRAWN — JJB	REVISED —
	CHECKED — EA	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 / TORRENCE AVENUE AT
RIDGE ROAD
CROSS SECTIONS

SCALE: H 1"=10' V 1"=5' SHEET NO. 53 OF 53 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	07-00165-00-TL	COOK	53	53
CONTRACT NO. 61B76				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-8003(848)				