

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	1
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	M-4003(039)	

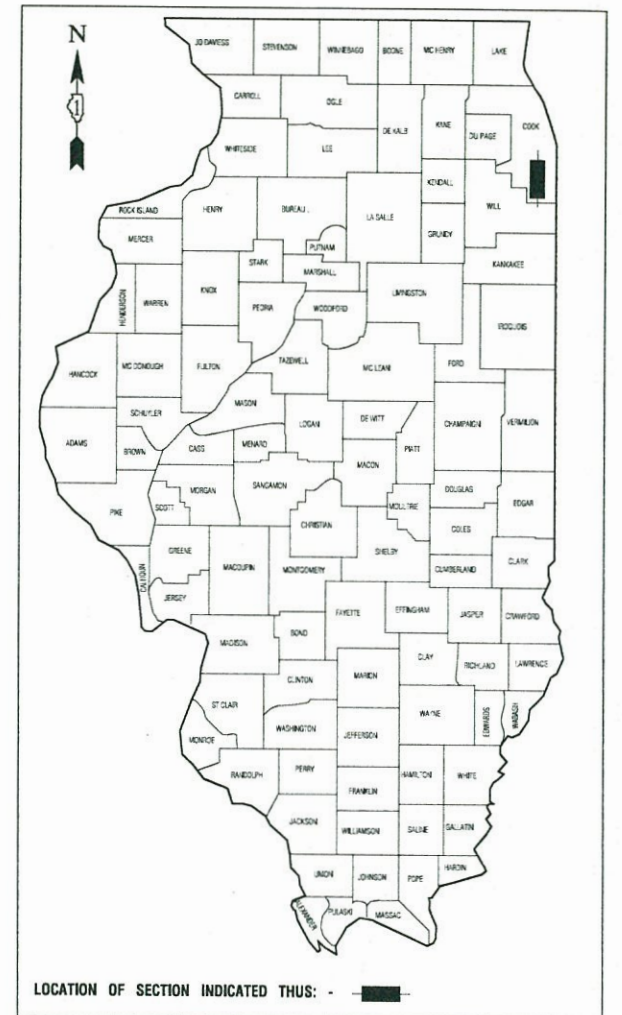
CONTRACT #61D42

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP ROUTE 0876 IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
SECTION NO.: 12-00023-00-WR
PROJECT NO.: UN18(903)
VILLAGE of EAST HAZEL CREST
COOK COUNTY
JOB NO.: C-91-458-12

INDEX OF SHEETS
SEE SHEET NO. 2

HIGHWAY STANDARDS
SEE SHEET NO. 2



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved: 10-14-2016
Thomas O. Brewer
President, Village of EAST HAZEL CREST

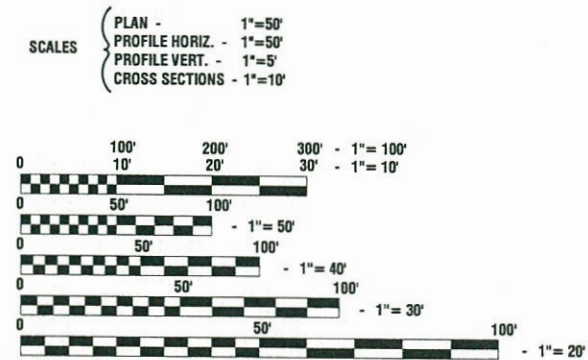
Passed: NOVEMBER 6, 2017
Christopher Holt
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review: NOVEMBER 6, 2017
Anthony J. Dringley / OAB
Regional Engineer

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THE STATE OF ILLINOIS

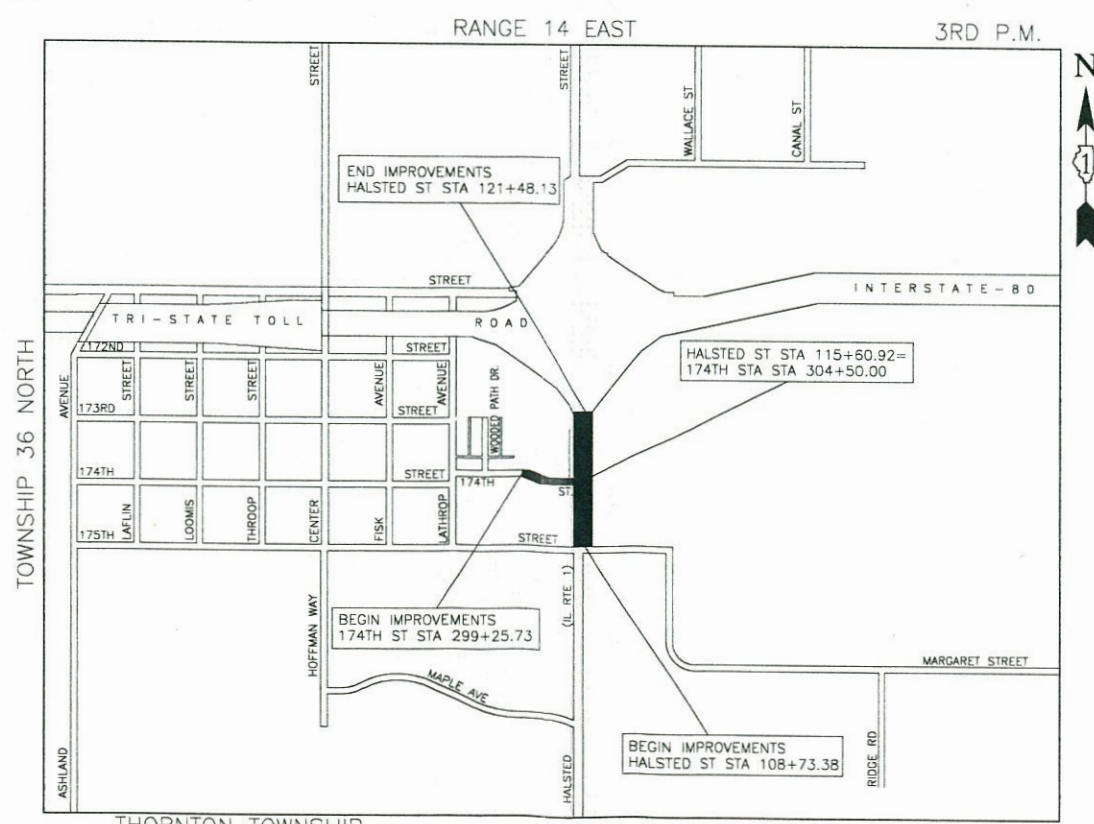
PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:
William P. Dolan
10-13-16
62-5780 REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
LICENSE EXPIRES: 11/30/17

DESIGN DESIGNATION - IL RTE 1 ADT 39,890 (2040) - PRINCIPAL ARTERIAL		
	IL ROUTE 1 (HALSTED ST)	174TH STREET
2013 ADT -	31,250	190
2040 ADT -	39,890	5,210
POSTED SPEED LIMIT -	45 mph	25 mph
DESIGN PERIOD -	20 YEARS	20 YEARS
DESIGN SPEED LIMIT -	50 mph CLASS I	30 mph CLASS II



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



LOCATION MAP

GROSS LENGTH=1799.02 FEET=0.34 MILES
NET LENGTH=1799.02 FEET=0.34 MILES

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

CONTRACT NO. 61D42

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS AND STATE STANDARDS
3	GENERAL NOTES
4-7	SUMMARY OF QUANTITIES
8-9	TYPICAL SECTIONS
10-12	PLAN AND PROFILES
13	DETOUR PLAN
14-20	SUGGESTED STAGING OF CONSTRUCTION AND TRAFFIC CONTROL
21-22	EROSION CONTROL PLAN
23-25	DRAINAGE AND UTILITIES PLANS
26	INTERSECTION DETAILS
27-28	PAVEMENT MARKING PLAN
29-30	SIGNING PLAN
31-38	STANDARD TRAFFIC SIGNAL DETAILS
39	TEMPORARY TRAFFIC SIGNAL INSTALLATION / REMOVAL - PRE-CONSTRUCTION & STAGE I (175TH STREET)
40	TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE II (175TH STREET)
41	TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE III (175TH STREET)
42	TEMPORARY TRAFFIC SIGNAL CABLE PLAN - ALL STAGES
43	PROPOSED TRAFFIC SIGNAL INSTALLATION (175TH STREET)
44	PROPOSED TRAFFIC SIGNAL CABLE PLAN (175TH STREET)
45	MAST ARM MOUNTED STREET SIGNS (175TH STREET)
46	PROPOSED TRAFFIC SIGNAL INSTALLATION (174TH STREET)
47	PROPOSED TRAFFIC SIGNAL CABLE PLAN (174TH STREET)
48	MAST ARM MOUNTED STREET SIGNS (174TH STREET)
49	TEMPORARY RADIO INTERCONNECT SCHEMATIC
50	PROPOSED TRAFFIC SIGNAL INTERCONNECT PLAN
51	PROPOSED TRAFFIC SIGNAL INTERCONNECT SCHEMATIC
52	OMIT SHEET
53-56	STREET LIGHTING PLANS
57-65	STREET LIGHTING DETAILS
66-67	RETAINING WALL PLANS
68	CONSTRUCTION DETAILS
69	DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) - BD 5
70	BUTT JOINT AND HMA TAPER DETAILS - BD 32
71	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS - TC 10
72	DISTRICT ONE TYPICAL PAVEMENT MARKINGS - TC 13
73	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) - TC 14
74	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING - TC 16
75	TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES - TC 17
76	ARTERIAL ROAD INFORMATION SIGN - TC 22
77-87	CROSS SECTIONS

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-10	PERPENDICULAR CURB RAMPS FORE SIDEWALKS
424016-04	MID-BLOCK CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15"(375MM) THRU 84" (2100MM) DIA.
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602301-04	INLET, TYPE A
602401-04	MANHOLE, TYPE A
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE B
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701311-03	LANE CLOSURE, 2L, 2W, MOVING OP DAY ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-07	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 TYPE A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	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
877001-07	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 LAYOUTS FOR DETECTION LOOPS

FILE NAME = 15323-INDX-01 - IDOT P01

USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 06-16-17	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 1 (HALSTED STREET) 175TH STREET TO INTERCHANGE RAMP INDEX OF SHEETS & STATE STANDARDS			
SCALE:	SHEET NO. 2	OF 87 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	2
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

- 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.
- 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 HIS EXPENSE. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS.
- 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. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS & SEWERS AND DISCHARGE SAME. HE 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.
- 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 VILLAGE OF EAST HAZEL CREST. THE ENGINEER SHALL COORDINATE WITH THE VILLAGE
- 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 CONTRACTOR'S 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 OR B-6.24 SHALL BE INSTALLED WITH A THICKNESS EQUAL TO TEN (10").

- 13 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).
- 14 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 15 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY OR ROW WITHOUT WRITTEN PERMISSION FROM THE VILLAGE.
- 16 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.
- 17 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 EAST HAZEL CREST (708) 798-0213, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 18 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.
- 19 AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU YD) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOGRAPHICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE AND/OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 (04/01/2016) OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- 20 ALL PAVEMENT, CURB AND SIDEWALK REMOVALS SHALL BE MADE BY MEANS OF STRAIGHT SAW CUT JOINT.
- 21 CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS ADOPTED APRIL 1, 2016, THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 22 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.
- 23 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.
- 24 ABANDONED PIPES SHALL BE PLUGGED ACCORDING TO SECTION 605 OF THE STANDARD SPECIFICATIONS.
- 25 THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD TECHNICIAN, PATRICE HARRIS, AT PATRICE.HARRIS@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- 26 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.
- 27 THE CONTRACTOR WILL BE REQUIRED TO REQUEST A CONSTRUCTION PERMIT TO INSTALL SIGNAGE ON THE TOLLWAY DURING CONSTRUCTION. NO FEE WILL BE REQUIRED, BUT AN INSURANCE CERTIFICATE WILL BE REQUIRED. TOLLWAY, INSURANCE AND PERMIT REQUIREMENTS IN THE SPECIAL PROVISIONS FOR MORE INFORMATION.

FILE NAME = 15323-NOTE-01 - IDOT P01	USER NAME =	DESIGNED -- SDK	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 1 (HALSTED STREET) 175TH STREET TO INTERCHANGE RAMP GENERAL NOTES			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- WPD	REVISED --			0876	12-00023-00-WR	COOK	87	3		
	PLOT SCALE =	DRAWN -- ACAD	REVISED --			CONTRACT NO. 61D42						
	PLOT DATE = 06-16-17	CHECKED -- ACAD	REVISED --			SCALE:	SHEET NO. 3 OF 87 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	ROADWAY 0003	SAFETY 0021	TRAINEES 0042
	20200100	EARTH EXCAVATION	CU YD	3383	3383		
	20200200	ROCK EXCAVATION	CU YD	400	400		
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	175	175		
	20800150	TRENCH BACKFILL	CU YD	501	501		
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	535	535		
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	6354	6354		
	21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	800	800		
	21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	140		140	
	21400100	GRADING AND SHAPING DITCHES	FOOT	710	710		
	25000210	SEEDING, CLASS 2A	ACRE	1.5	1.5		
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	120	120		
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	120	120		
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	120	120		
	25100630	EROSION CONTROL BLANKET	SQ YD	7260	7260		
	28000305	TEMPORARY DITCH CHECKS	FOOT	95	95		
	28000400	PERIMETER EROSION BARRIER	FOOT	2038	2038		
	28000500	INLET AND PIPE PROTECTION	EACH	2	2		
	28000510	INLET FILTERS	EACH	21	21		
	28100105	STONE RIPRAP, CLASS A3	SQ YD	30	30		
	28200200	FILTER FABRIC	SQ YD	30	30		
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	100	100		
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	6133	6133		
	31200100	STABILIZED SUBBASE 4"	SQ YD	931	931		
	35101598	AGGREGATE BASE COURSE, TYPE B 3"	SQ YD	561	561		
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	115	115		

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	ROADWAY 0003	SAFETY 0021	TRAINEES 0042
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	667	667		
	35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	1196	1196		
	35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	307	307		
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	80	80		
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8276	8276		
	40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	490	490		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	110	110		
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1209	1209		
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	428	428		
	40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	979	979		
	40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1498	1498		
	42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	639	639		
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1021	1021		
Δ	42400800	DETECTABLE WARNINGS	SQ FT	50		50	
	44000100	PAVEMENT REMOVAL	SQ YD	2057	2057		
	44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	7148	7148		
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	766	766		
	44000300	CURB REMOVAL	FOOT	77	77		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1487	1487		
	44000600	SIDEWALK REMOVAL	SQ FT	392		392	
	44003100	MEDIAN REMOVAL	SQ FT	9785	9785		
	44004250	PAVED SHOULDER REMOVAL	SQ YD	1441	1441		
	44201349	CLASS C PATCHES, TYPE I, 10 INCH	SQ YD	10	10		
	44201353	CLASS C PATCHES, TYPE II, 10 INCH	SQ YD	10	10		
	44201357	CLASS C PATCHES, TYPE III, 10 INCH	SQ YD	10	10		

☆ - INDICATES SPECIALTY ITEM
 Δ - INDICATES SPECIAL PROVISION

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	ROADWAY 0003	SAFETY 0021	TRAINEES 0042
	44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	185	185		
	48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	290		290	
	50105220	PIPE CULVERT REMOVAL	FOOT	150	150		
	50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	70		70	
	52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	240	240		
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1		
	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1		
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	54	54		
	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	94	94		
	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	47	47		
	550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	117	117		
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	820	820		
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	103	103		
	550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	282	282		
	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	237	237		
	55100500	STORM SEWER REMOVAL 12"	FOOT	100	100		
	60100915	PIPE DRAINS 6"	FOOT	120	120		
	60108206	PIPE UNDERDRAINS, TYPE 2, 6"	FOOT	1200	1200		
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	6	6		
	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	7	7		
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6	6		
	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1		
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		
	60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	4	4		
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	4	4		

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE				
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	ROADWAY 0003	SAFETY 0021	TRAINEES 0042	OTHER 0044
	60500060	REMOVING INLETS	EACH	3	3			
	60600605	CONCRETE CURB, TYPE B	FOOT	53	53			
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2744	2744			
	60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	6329	6329			
Δ	60626500	TRANSITIONAL COMBINATION CONCRETE CURB AND GUTTER	FOOT	50	50			
☆	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1585	1585			
☆	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1			
☆	66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
	67100100	MOBILIZATION	LSUM	1	1			
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	196	196			
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4837		4837		
	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	325		325		
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7700		7700		
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1680		1680		
	70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	990		990		
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	375		375		
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	40		40		
	72000100	SIGN PANEL - TYPE 1	SQ FT	116		116		
	72000200	SIGN PANEL - TYPE 2	SQ FT	35		35		
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2		2		
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	3		3		
	72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	10		10		
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	5		5		
	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	3		3		

☆ - INDICATES SPECIALTY ITEM
Δ - INDICATES SPECIAL PROVISION

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	ROADWAY 0003	SAFETY 0021	TRAINEES 0042
	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	54		54	
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	30		30	
	72900100	METAL POST - TYPE A	FOOT	138		138	
	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	2		2	
☆	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	765		765	
☆	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6159		6159	
☆	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2764		2764	
☆	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	986		986	
☆	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	373		373	
☆	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	286		286	
△	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1	
△	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1	
△	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1	
△	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1859		1859	
△	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	370		370	
△	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	401		401	
△	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	897		897	
△	81400100	HANDHOLE	EACH	5		5	
△	81400200	HEAVY-DUTY HANDHOLE	EACH	5		5	
△	81400300	DOUBLE HANDHOLE	EACH	4		4	
△	81603051	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	600		600	
△	81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2155		2155	
△	81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	100		100	
△	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	9		9	
△	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1		1	

☆ - INDICATES SPECIALTY ITEM
△ - INDICATES SPECIAL PROVISION

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	ROADWAY 0003	SAFETY 0021	TRAINEES 0042
☆	83007300	LIGHT POLE, ALUMINUM, 35 FT. M.H., 8 FT. MAST ARM	EACH	5		5	
☆	83050800	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 12 FT. MAST ARM	EACH	9		9	
☆	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	117		117	
☆	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	5		5	
☆	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	9		9	
☆	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	5		5	
☆	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	1		1	
☆	84200804	REMOVAL OF POLE FOUNDATION	EACH	6		6	
△	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
△	86400100	TRANSCIVER - FIBER OPTIC	EACH	2		2	
△	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1750		1750	
△	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	790		790	
△	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2080		2080	
△	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6090		6090	
△	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1902		1902	
△	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3940		3940	
△	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	145		145	
△	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1400		1400	
△	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	7		7	
△	87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1		1	
△	87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1	
△	87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1	
△	87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2		2	
△	87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	2		2	
△	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	36		36	

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	ROADWAY 0003	SAFETY 0021	TRAINEES 0042
△ ☆	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8		8	
△ ☆	87800400	CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	10		10	
△ ☆	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	80		80	
☆	87900200	DRILL EXISTING HANDHOLE	EACH	1		1	
△ ☆	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	18		18	
△ ☆	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9		9	
△ ☆	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5		5	
△ ☆	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		5	
△ ☆	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		4	
△ ☆	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	23		23	
☆	88500100	INDUCTIVE LOOP DETECTOR	EACH	13		13	
△ ☆	88600100	DETECTOR LOOP, TYPE I	FOOT	935		935	
☆	88700200	LIGHT DETECTOR	EACH	5		5	
☆	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1	
△ ☆	88800100	PEDESTRIAN PUSH-BUTTON	EACH	4		4	
△ ☆	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
△ ☆	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1		1	
△ ☆	89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1		1	
△ ☆	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	252		252	
△ ☆	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
△ ☆	89502380	REMOVE EXISTING HANDHOLE	EACH	11		11	
△ ☆	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2		2	
☆	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9	
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52		52	
△ ☆	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	7		7	

☆ - INDICATES SPECIALTY ITEM
△ - INDICATES SPECIAL PROVISION

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	ROADWAY 0003	SAFETY 0021	TRAINEES 0042
△ ☆	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2		2	
△	Z0062456	TEMPORARY PAVEMENT	SQ YD	80	80		
△ ☆	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1	
△	Z0076600	TRAINEES	HOUR	1000			1000
△	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000			1000
△	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	2	2		
△ ☆	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1300		1300	
△ ☆	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	252		252	
△	X0326657	RELOCATE SIGN, SPECIAL	EACH	1		1	
△	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	2852		2852	
△ ☆	X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	2		2	
△ ☆	X1400094	LUMINAIRE, LED, HORIZONTAL MOUNT, LOW WATTAGE	EACH	5		5	
△ ☆	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2		2	
△	X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1		
△	X6061700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)	FOOT	769	769		
△	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1	
△	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	4850		4850	
△ ☆	X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	9		9	
△ ☆	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2		2	
△ ☆	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1750		1750	
△ ☆	XX009057	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	3		3	

FILE NAME = 15323 QUAN-01 - 004

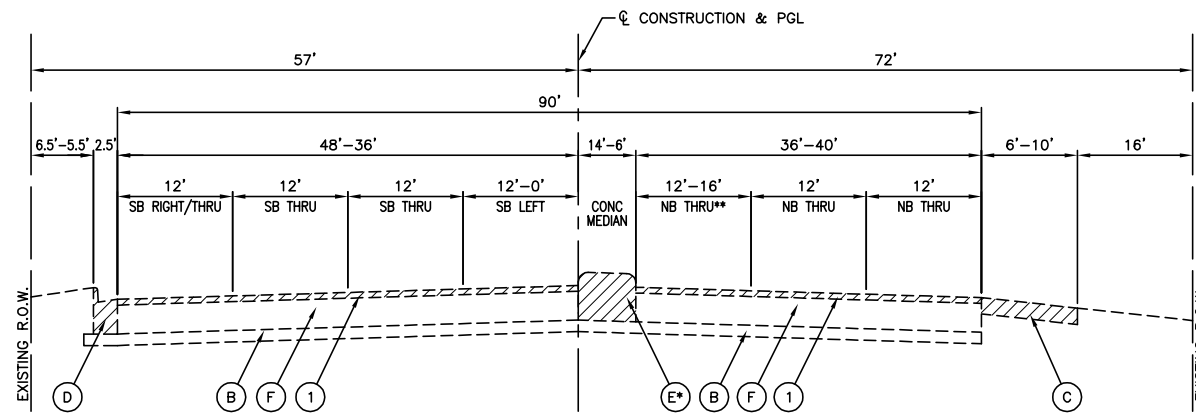
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DRAWN -- RG
PLOT DATE = 06-16-17
CHECKED -- AG

REVISED --
REVISED --
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REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

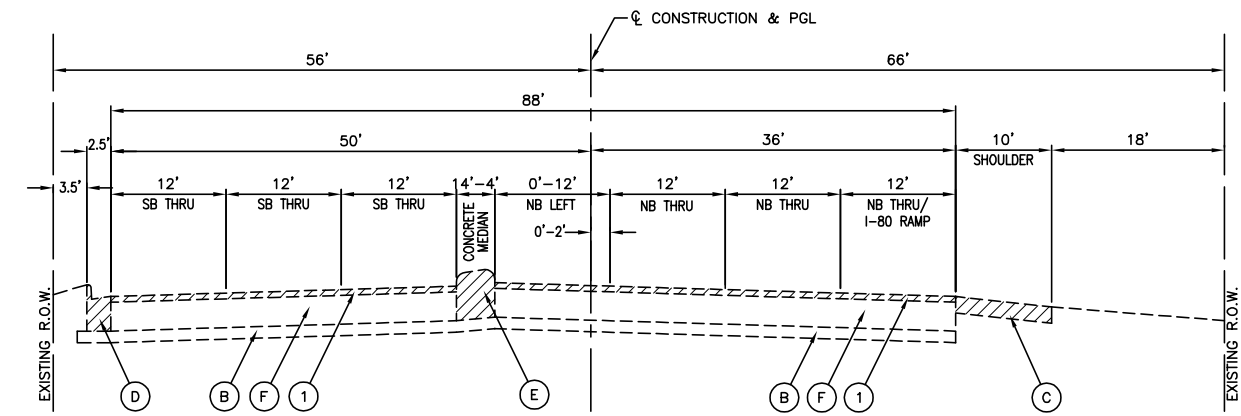
IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
SUMMARY OF QUANTITIES
SCALE: NONE SHEET NO. 7 OF 87 SHEETS STA. TO STA.

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	7
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

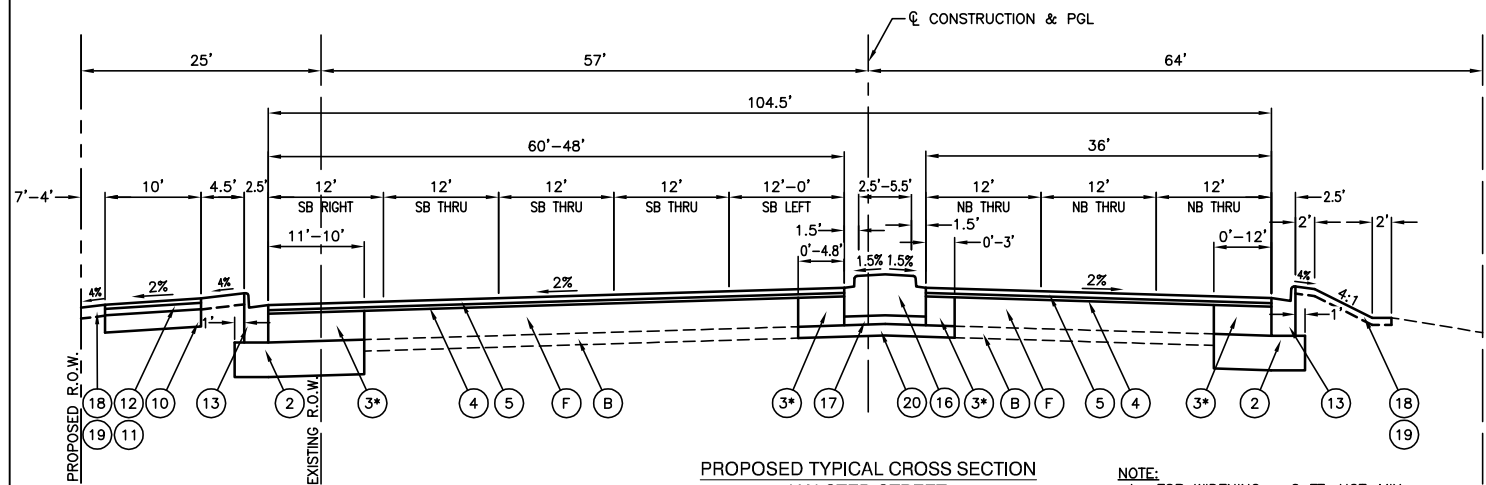


EXISTING TYPICAL CROSS SECTION
HALSTED STREET
STA 108+75.31 TO STA 112+43.77

NOTE:
* CONCRETE MEDIAN SHIFTS FROM EAST TO WEST SIDE OF \bar{C} CONSTRUCTION.
** 4' TAPER THRU NORTH LIMIT OF THIS TYPICAL SECTION IS BEGINNING OF NORTHBOUND LEFT-TURN LANE TAPER

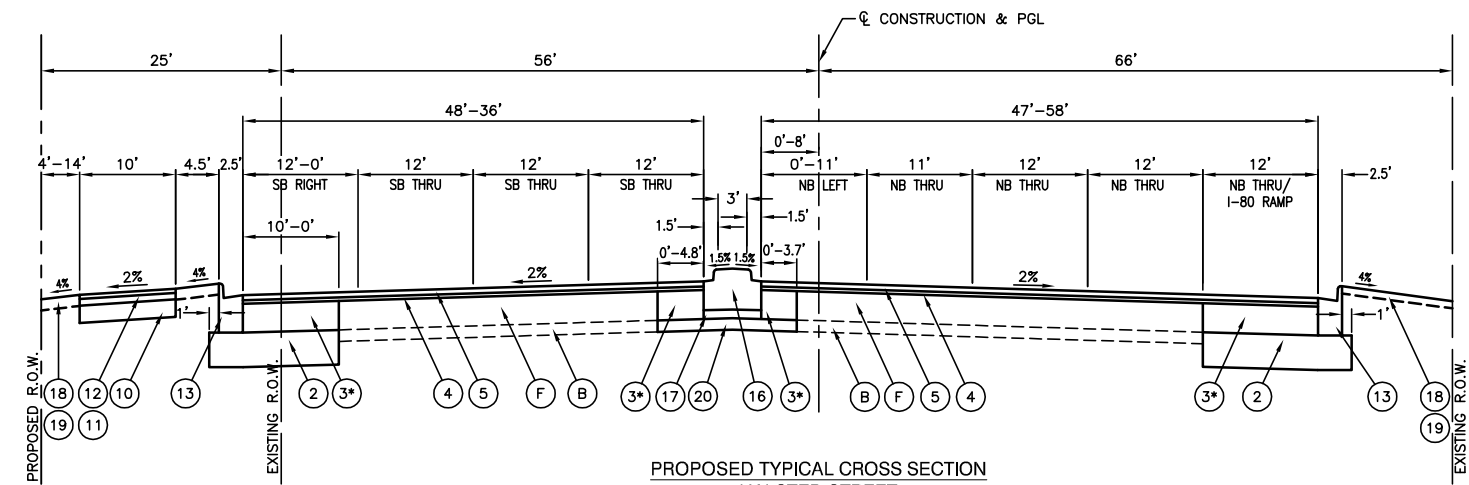


EXISTING TYPICAL CROSS SECTION
HALSTED STREET
STA 112+43.77 TO STA 116+29.31



PROPOSED TYPICAL CROSS SECTION
HALSTED STREET
STA 108+75.31 TO STA 112+43.77

NOTE:
* FOR WIDENING \leq 6 FT, HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
FOR WIDENING $>$ 6 FT, HOT-MIX ASPHALT BASE COURSE 10"



PROPOSED TYPICAL CROSS SECTION
HALSTED STREET
STA 112+43.77 TO STA 116+29.31

NOTE:
* FOR WIDENING \leq 6 FT, HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
FOR WIDENING $>$ 6 FT, HOT-MIX ASPHALT BASE COURSE 10"

LEGEND

- | | | |
|---|---|---|
| (A) EXISTING HMA PAVEMENT | (1) HOT-MIX ASPHALT SURFACE REMOVAL, 3" | (11) HOT-MIX ASPHALT BINDER COURSE, IL-19.0,N50, 2-1/4" |
| (B) EXISTING STABILIZED SUBBASE, \pm 4" | (2) AGGREGATE SUBGRADE IMPROVEMENT, 12" | (12) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2" |
| (C) EXISTING HMA SHOULDER | (3) HOT-MIX ASPHALT BASE COURSE, 10" OR HOT-MIX ASPHALT BASE COURSE WIDENING, 10" | (13) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 |
| (D) EXISTING CURB AND GUTTER | (4) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1" | (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL) |
| (E) EXISTING CONCRETE MEDIAN | (5) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 2" | (15) TOPSOIL FURNISH AND PLACE, 12" |
| (F) EXISTING CONCRETE PAVEMENT, \pm 10" | (6) PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED), 10" | (16) CONCRETE MEDIAN, TYPE SB-6.12 |
| (Hatched) ITEM TO BE REMOVED | (7) NO.6 (NO. 19) TIE BARS - 24" LONG AT 24" C-C SPACING | (17) AGGREGATE BASE COURSE, TYPE B, 3" |
| | (8) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" | (18) TOPSOIL FURNISH AND PLACE, 4" |
| | (9) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" | (19) SEEDING, CLASS 2A AND EROSION CONTROL BLANKET |
| | (10) AGGREGATE BASE COURSE, TYPE B, 6" | (20) STABILIZED SUBBASE 4" |
| | | (21) HOT-MIX ASPHALT SHOULDERS, 8" |

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 2 INCH	4% @ 70 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1 INCH	3.5% @ 50 Gyr.
PAVEMENT WIDENING - IL RTE 1 (174TH ST TO 175TH ST)	
HMA BASE COURSE (HMA BINDER IL-19mm), N50, 10 INCH (3 LIFTS)	4% @ 90 Gyr.
HMA BASE COURSE WIDENING (HMA BINDER IL-19mm), N50, 10 INCH (3 LIFTS)	4% @ 90 Gyr.
PAVEMENT RECONSTRUCTION - 174TH STREET	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 2 INCH	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE (IL-19.0mm), N50, 6 INCH (2 LIFTS)	4% @ 50 Gyr.
HOT-MIX ASPHALT SHOULDERS, 8"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 2 INCH	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE (IL-19.0mm), 6 INCH (2 LIFTS)	4% @ 90 Gyr.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 2 INCH	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE (IL-19.0mm), N50, 2-1/4 INCH	4% @ 50 Gyr.
MULTI-USE PATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 1-1/2 INCH	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE (IL-19.0mm), N50, 2-1/4 INCH	4% @ 50 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 2 INCH	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE (IL-19.0mm), N50, PE - 6 INCH, CE - 8 INCH (2 LIFTS)	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 70-22" 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.

FILE NAME = 15323-TYPX-01 - P01

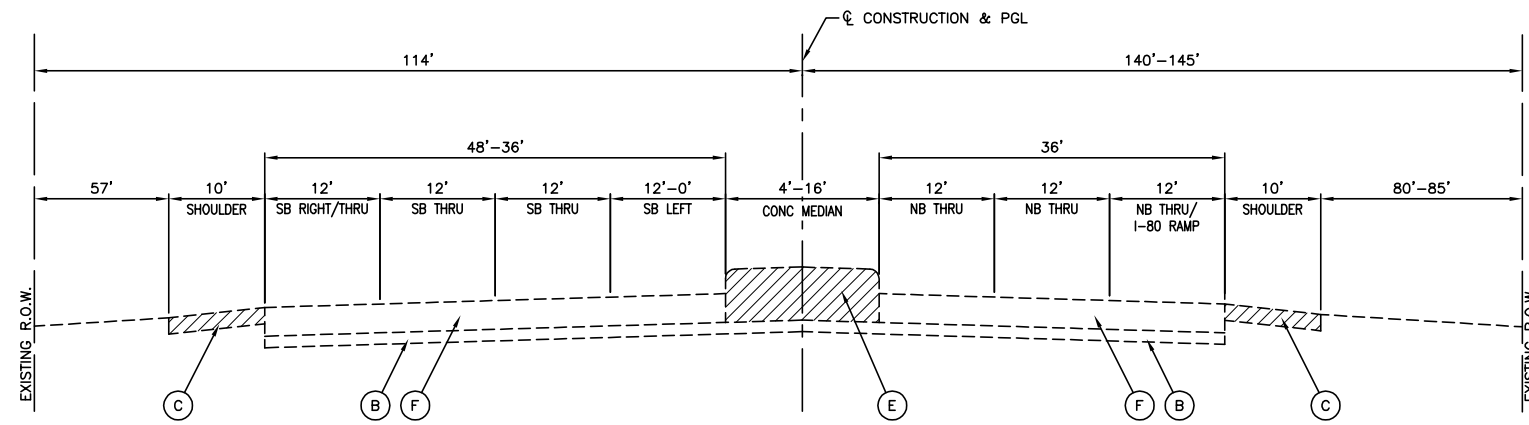
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	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 06-16-17	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

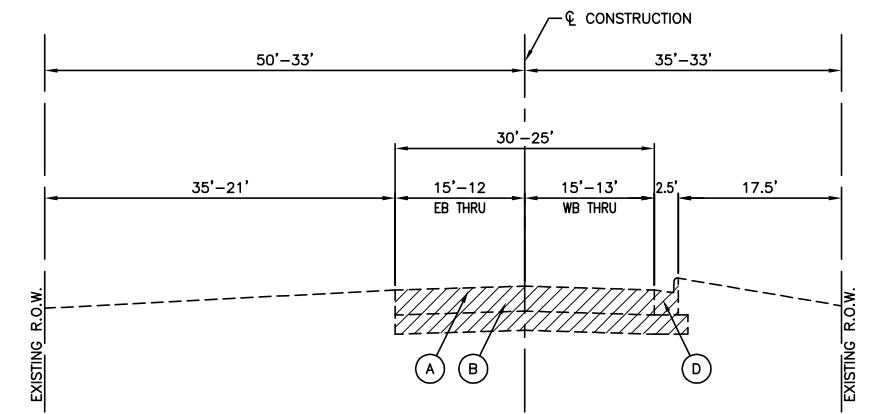
IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
TYPICAL CROSS SECTIONS

SCALE: SHEET NO. 8 OF 87 SHEETS STA. TO STA.

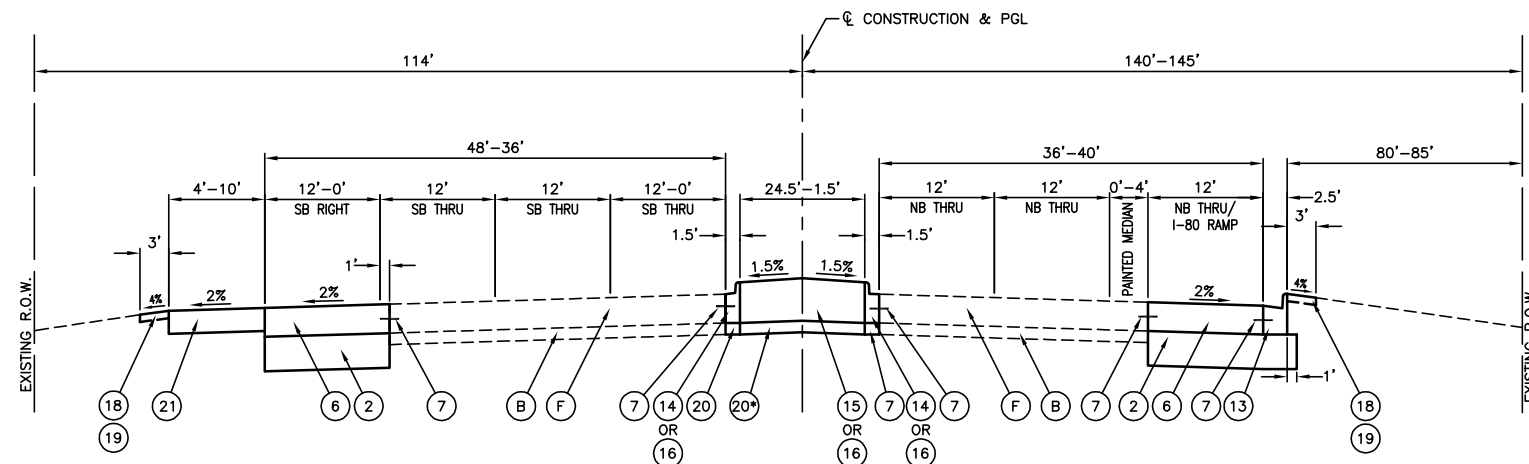
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	8
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61D42	
FED. AID PROJECT M-4003(039)				



EXISTING TYPICAL CROSS SECTION
HALSTED STREET
STA 116+29.31 TO STA 121+48.13

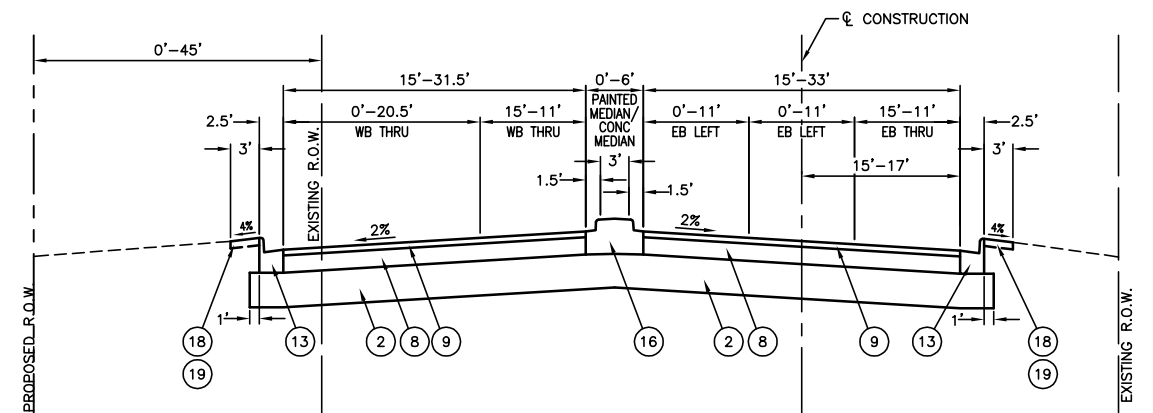


EXISTING TYPICAL CROSS SECTION
174TH STREET
STA 299+25.73 TO STA 304.50



PROPOSED TYPICAL CROSS SECTION
HALSTED STREET
STA 116+29.31 TO STA 121+48.13

NOTE:
* ONLY STABILIZED SUBBASE, 4" FROM STA 120+65.18 TO STA 121+48.13



PROPOSED TYPICAL CROSS SECTION
174TH STREET
STA 299+25.73 TO STA 304.50

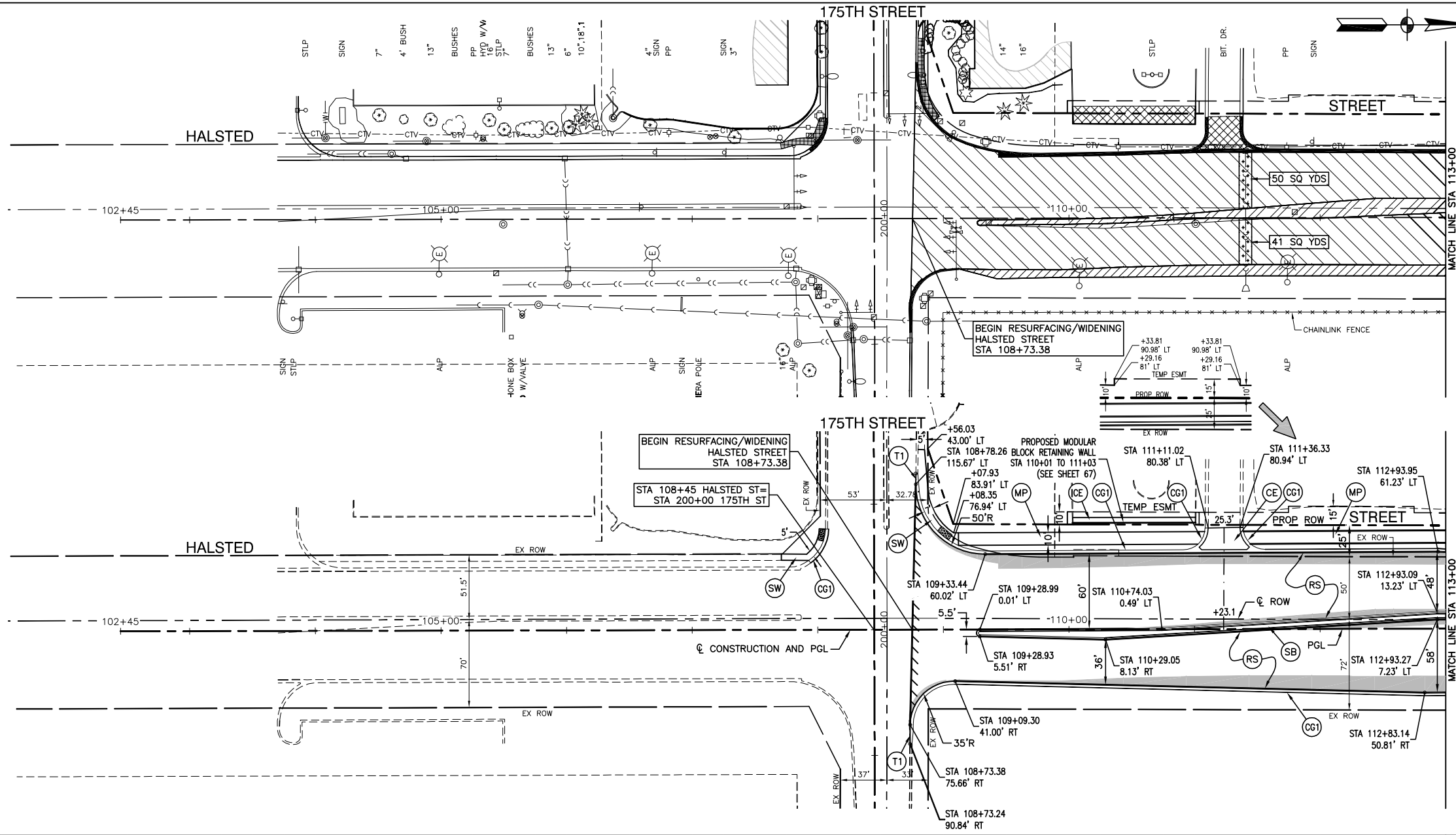
LEGEND

- | | | |
|--------------------------------------|---|---|
| (A) EXISTING HMA PAVEMENT | (1) HOT-MIX ASPHALT SURFACE REMOVAL, 3" | (11) HOT-MIX ASPHALT BINDER COURSE, IL-19.0,N50, 2-1/4" |
| (B) EXISTING STABILIZED SUBBASE, ±4" | (2) AGGREGATE SUBGRADE IMPROVEMENT, 12" | (12) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2" |
| (C) EXISTING HMA SHOULDER | (3) HOT-MIX ASPHALT BASE COURSE, 10" OR HOT-MIX ASPHALT BASE COURSE WIDENING, 10" | (13) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 |
| (D) EXISTING CURB AND GUTTER | (4) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1" | (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL) |
| (E) EXISTING CONCRETE MEDIAN | (5) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 2" | (15) TOPSOIL FURNISH AND PLACE, 12" |
| (F) EXISTING CONCRETE PAVEMENT, ±10" | (6) PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED), 10" | (16) CONCRETE MEDIAN, TYPE SB-6.12 |
| ITEM TO BE REMOVED | (7) NO.6 (NO. 19) TIE BARS - 24" LONG AT 24" C-C SPACING | (17) AGGREGATE BASE COURSE, TYPE B, 3" |
| | (8) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" | (18) TOPSOIL FURNISH AND PLACE, 4" |
| | (9) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" | (19) SEEDING, CLASS 2A AND EROSION CONTROL BLANKET |
| | (10) AGGREGATE BASE COURSE, TYPE B, 6" | (20) STABILIZED SUBBASE 4" |
| | | (21) HOT-MIX ASPHALT SHOULDERS, 8" |

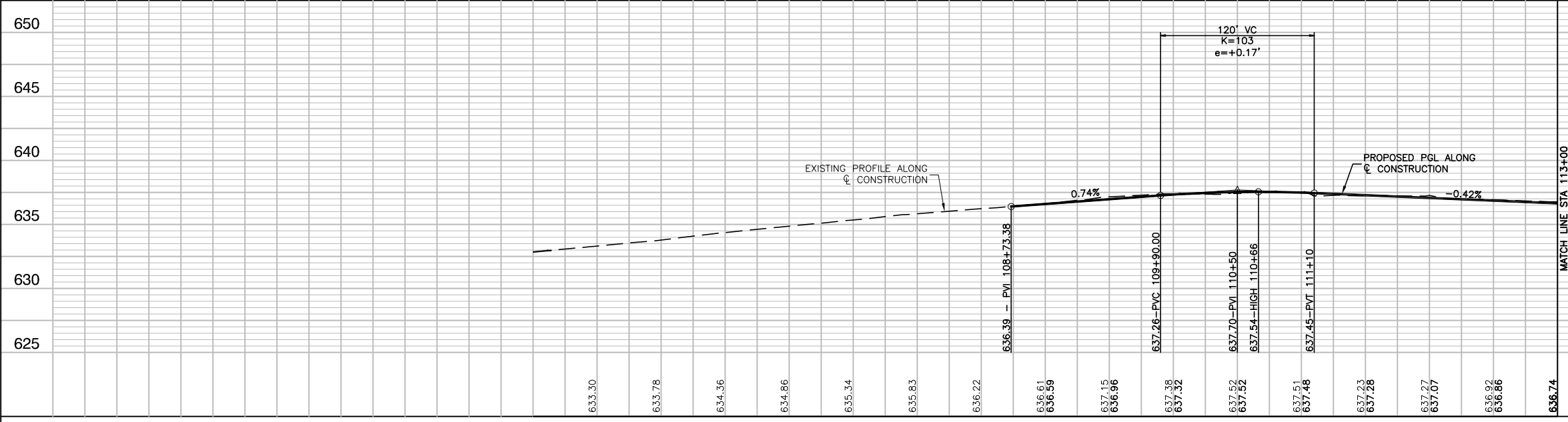
EARTHWORK QUANTITIES

TOTAL CUT =	3383 CY
TOTAL EXISTING PAVEMENT REMOVAL =	485 CY
TOTAL AVAILABLE CUT TO FILL (EARTH EXCAVATION) =	2898 CY
TOTAL FILL =	1012 CY
CUT TO FILL (15% SHRINKAGE)	1164 CY
EXCESS HAULAWAY MATERIAL	1734 CY

USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 06-16-17	CHECKED -- ACAD	REVISED --



- TREE TO BE REMOVED
- CONC CURB AND GUTTER REMOVAL
- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- MEDIAN REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL - 3"
- PAVED SHOULDER REMOVAL
- CLASS "C" PATCHES - 10"
- PRIVATE ENTRANCE DRIVEWAY
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
HOT-MIX ASPHALT BINDER COURSE, N50, 6"
- COMMERCIAL ENTRANCE DRIVEWAY
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
HOT-MIX ASPHALT BINDER COURSE, N50, 8"
- CONCRETE MEDIAN, TYPE SB-6.12 (SEE NOTE 1)
- TOPSOIL FURNISH AND PLACE, 12", SEEDING, CLASS 2A, NITROGEN, PHOSPHORUS, POTASSIUM, NUTRIENTS, EROSION CONTROL BLANKET
- COMB CONC CURB & GUTTER, TYPE B-6.24
- COMB CONC CURB & GUTTER, TYPE B (SPECIAL)
- CONCRETE CURB, TYPE B
- 10" TRANSITION FROM CURB AND GUTTER TYPE B-6.24 TO CURB AND GUTTER TYPE B-6.12
- SIDEWALK
PORTLAND CEMENT CONCRETE SIDEWALK, 5"
AGGREGATE BASE COURSE, TYPE B, 4"
- HOT-MIX ASPHALT SHOULDERS, 8"
- MULTIUSE PATH
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"
HOT-MIX ASPHALT BINDER COURSE, N50, 2-1/4"
AGGREGATE BASE COURSE, TYPE B, 6"
- 174TH STREET RECONSTRUCTION
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
HOT-MIX ASPHALT BINDER COURSE, N50, 6"
AGGREGATE SUBGRADE IMPROVEMENT, 12"
- IL ROUTE 1 RESURFACING
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 2"
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- IL ROUTE 1 PAVEMENT WIDENING (HMA)
HOT-MIX ASPHALT BASE COURSE, 10" (SEE NOTE 3)
AGGREGATE SUBGRADE IMPROVEMENT, 12"
OR STABILIZED SUBBASE, 4" (SEE TYPICAL SECTIONS)
- IL ROUTE 1 PAVEMENT WIDENING (CONCRETE)
PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
AGGREGATE SUBGRADE IMPROVEMENT, 12"
OR STABILIZED SUBBASE, 4" (SEE TYPICAL SECTIONS)
- DETECTABLE WARNINGS
- BUTT JOINT



NOTES:

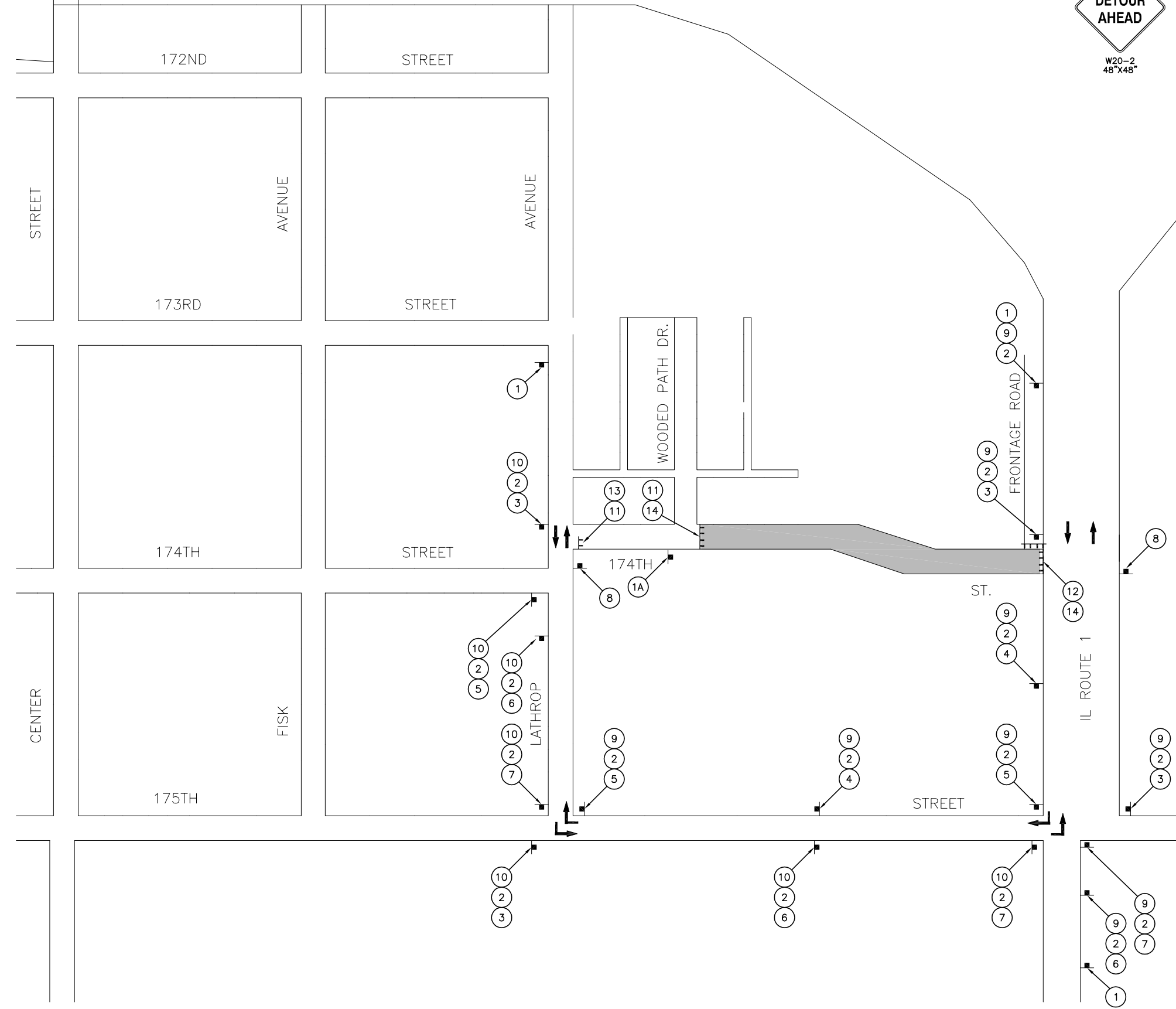
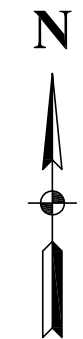
1. THE CONCRETE BARRIER MEDIAN SHALL BE PAID PER SQUARE FOOT AS CONCRETE MEDIAN, TYPE SB-6.12 UP TO A MAXIMUM WIDTH OF 6'. WHERE THE MEDIAN WIDTH IS LARGER THAN 6' THE MEDIAN SHALL BE LANDSCAPED AND PAID FOR PER THE VARIOUS LANDSCAPING ITEMS AND THE CURB AND GUTTER SHALL BE PAID FOR PER FOOT AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)
2. THE 10" PCC BASE COURSE OR PAVEMENT SHALL BE TIED TO THE EXISTING PCC BASE COURSE OR PAVEMENT WITH EPOXY COATED DEFORMED STEEL TIE BAR NO.6 (NO.19), 24" LONG AT 24" CENTERS, DRILLED AND GROUTED.

THE PROPOSED COMBINATION CURB AND GUTTER SHALL BE TIED TO THE PROPOSED 10" PCC BASE COURSE OR PAVEMENT WITH EPOXY COATED DEFORMED STEEL TIE BAR NO.6 (NO.19), 24" LONG AT 24" CENTERS.

THE COST FOR THE TIE BARS SHALL BE CONSIDERED INCIDENTAL TO THE 10" PCC BASE COURSE OR PAVEMENT.
3. FOR WIDENING OF SIX FEET OR LESS, BASE COURSE SHALL BE PAID AS HOT-MIX ASPHALT BASE COURSE WIDENING, 10". FOR WIDENING OF GREATER THAN SIX FEET, BASE COURSE SHALL BE PAID AS HOT-MIX ASPHALT BASE COURSE, 10".

FILE NAME = 15323-PLPR-01 - IDOT PLPR01	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 1 (HALSTED STREET) 175TH STREET TO INTERCHANGE RAMP PLAN & PROFILE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - WPD	REVISED -					0876	12-00023-00-WR	COOK	87	10
	PLOT SCALE =	DRAWN - ACAD	REVISED -					CONTRACT NO. 61D42				
	PLOT DATE = 06-16-17	CHECKED - ACAD	REVISED -			SCALE:	SHEET NO. 10 OF 87 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS

TRI-STATE TOLL ROAD



- 1
DETOUR AHEAD
W20-2
48"x48"
- 1A
ROAD CLOSED AHEAD
W20-3-4848
48"x48"
- 6
DETOUR (Left Turn)
M4-9
24"x30"
- 11
DETOUR (Right Turn)
M4-10R
48"x18"
- 7
DETOUR (Left Turn)
M4-9L
30"x24"
- 12
DETOUR (Left Turn)
M4-10L
48"x18"
- 8
END DETOUR
M4-8a
24"x18"
- 13
ROAD CLOSED TO THRU TRAFFIC
R11-4
60"x30"
- 9
WEST
M3-4
24"x12"
- 14
ROAD CLOSED
R11-2
48"x30"
TYPE III BARRICADES (2) OR MORE
- 10
EAST
M3-2
24"x12"
- 2
174TH ST
D3-1
30"x9"
- 3
DETOUR (Up Arrow)
M4-9
24"x30"
- 4
DETOUR (Right Turn)
M4-9
24"x30"
- 5
DETOUR (Right Arrow)
M4-9R
30"x24"

GENERAL DETOUR NOTES

1. THIS DETOUR ROUTE WILL BE IN EFFECT DURING STAGE I OF CONSTRUCTION WHEN 174TH STREET WILL BE DETOURD VIA LATHROP AVENUE, 175TH STREET, AND HALSTED STREET. TEMPORARY SIGNS INDICATING THE TWO-WAY DETOUR WILL BE ERCTED PRIOR TO FULL CLOSURE AND IMMEDIATELY REMOVED AFTER IMPROVEMENTS ARE COMPLETED.
2. ALL SIGNS, BARRICADES, SIGN'S LIGHTS & FLAGS SHALL BE IN ACCORDANCE WITH THOSE INDICATED IN TRAFFIC CONTROL STANDARDS OF MUTCD & STANDARD SPECIFICATIONS.
3. THE VILLAGE OF EAST HAZEL CREST AND I.D.O.T. (DISTRICT 1) SHALL BE NOTIFIED TWO (2) WEEKS IN ADVANCE PRIOR TO THE OPERATION OF THIS DETOUR ROUTE FOR THE SUBJECT CONSTRUCTION.
4. A TRAFFIC CONTROL AUTHORIZATION REQUEST (IDOT FORM OPER 725) MUST BE SUBMITTED TO ANDREW SCHUETZE, IDOT DISTRICT ONE, ARTERIAL TRAFFIC CONTROL SUPERVISOR, AT LEAST 5 BUSINESS DAYS PRIOR TO THE INSTALLATION OF THE DETOUR SIGNS. ANDREW SCHUETZE CAN BE CONTACTED AT (847) 705-4470. THE COMPLETED FORM SHALL BE SUBMITTED EITHER VIA EMAIL TO ANDREW.SCHUETZE@ILLINOIS.GOV OR FAX TO (847) 705-4198.
5. "D3-1" SIGNS SHALL HAVE 6" BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
6. ALL DETOUR SIGNING AND INSTALLATION SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

LEGEND

- ▬ TYPE III BARRICADE
- ▲ SIGN
- ➔ DIRECTION OF TRAFFIC
- CONSTRUCTION AREA CLOSED TO TRAFFIC

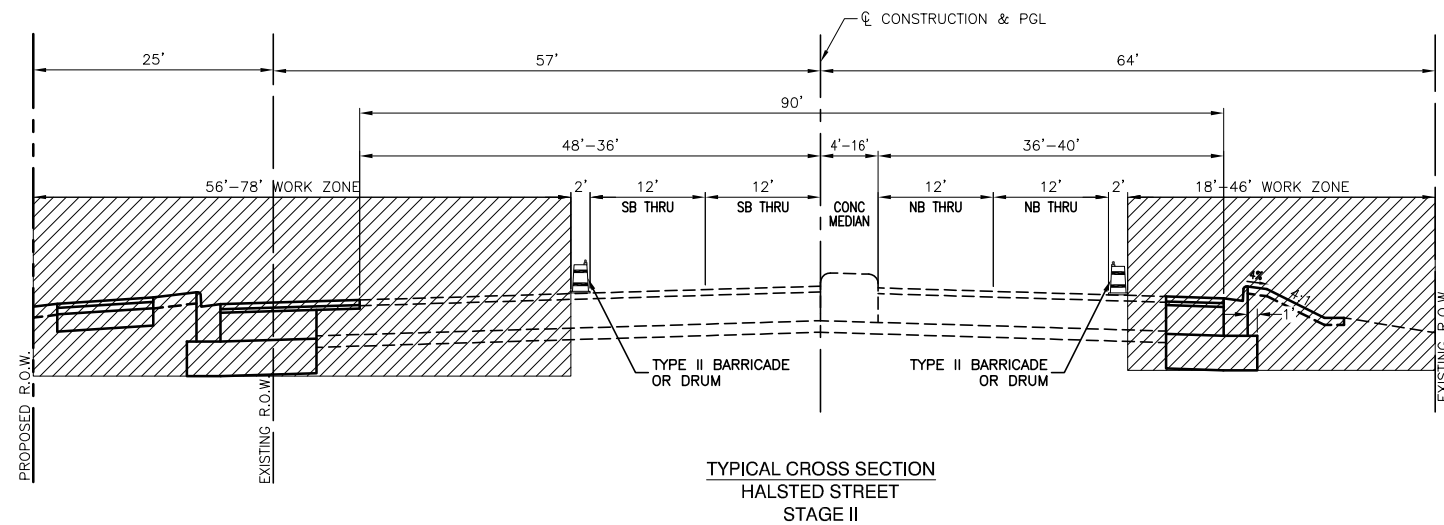
FILE NAME #0323-DETR-01 - P01	USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --	
	PLOT SCALE =	DRAWN -- RG	REVISED --
	PLOT DATE = 06-16-17	CHECKED -- AG	REVISED --

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

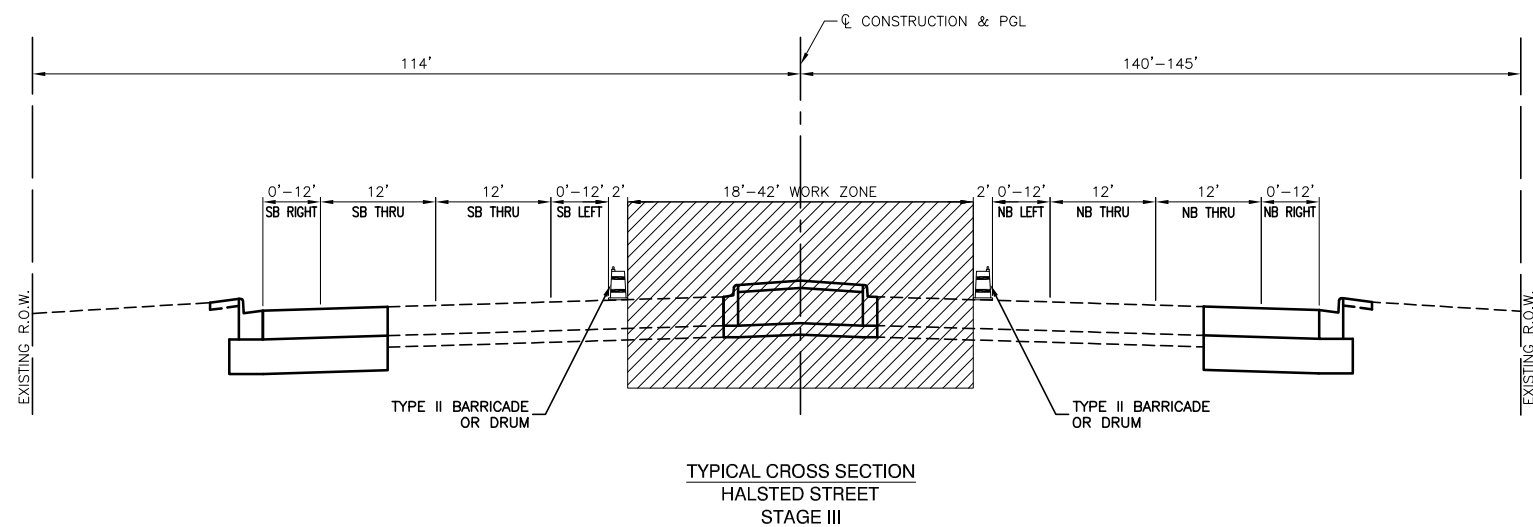
IL ROUTE 1 (HALSTED STREET) 175TH STREET TO INTERCHANGE RAMP DETOUR PLAN	
SCALE: 1"=150'	SHEET NO. 13 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	13
CONTRACT NO. 61D42				

FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)
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TYPICAL CROSS SECTION
HALSTED STREET
STAGE II



TYPICAL CROSS SECTION
HALSTED STREET
STAGE III

CONSTRUCTION STAGING NOTES

PRE-STAGE CONSTRUCTION

- RELOCATE SIGNS THROUGHOUT
- CONSTRUCT TEMPORARY PAVEMENT ON THE WEST SIDE OF HALSTED STREET NORTH OF 174TH STREET AT STA. 116+90.4 (WIDTH AS SHOWN ON THE PLANS).
- REMOVE EXISTING CONCRETE MEDIAN ON THE NORTH SIDE OF THE INTERSECTION AT HALSTED STREET AND 174TH STREET, AND REPLACE WITH TEMPORARY PAVEMENT (LOCATION ON PLANS).
- INSTALL TEMPORARY TRAFFIC SIGNALS AT 175TH STREET.
- CONSTRUCT HALSTED STREET STORM SEWER LATERALS AND SUBSEQUENT PAVEMENT PATCHING.

PRE-STAGE TRAFFIC CONTROL

- RE-STRIPE EAST LEG OF 175TH STREET AND HALSTED STREET INTERSECTION.
- THE WORK TO BE DONE IN THIS PHASE SHALL BE DONE USING HIGHWAY STANDARDS 701101-05, 701311-03 (175TH STREET), 701601-09 AND 701701-10

STAGE I CONSTRUCTION

- CONSTRUCT 174TH STREET PAVEMENT, CURB AND GUTTER, CONCRETE MEDIAN, AND STORM SEWER.

STAGE I TRAFFIC CONTROL

- REMOVE EXISTING PAVEMENT MARKINGS AND PLACE TEMPORARY MARKINGS AND SIGNS AS SHOWN ON THE STAGE I STAGING PLANS.
- CLOSE DOWN 174TH STREET AND PLACE DETOUR SIGNS ACCORDING TO PLAN (SHEET 13).
- CONSTRUCT THE PROPOSED LIGHTING SYSTEM FOR HALSTED STREET. THE EXISTING LIGHTING SHALL REMAIN IN SERVICE UNTIL THE PROPOSED LIGHTING SYSTEM IS OPERATIONAL. THE PROPOSED LIGHTING SYSTEM SHALL BE USED TO LIGHT HALSTED STREET FOR THE SUBSEQUENT STAGES OF CONSTRUCTION.
- THE WORK TO BE DONE IN THIS PHASE SHALL BE DONE USING HIGHWAY STANDARDS 701101-05, 701311-03 AND 701426-08.

STAGE II CONSTRUCTION

- REMOVE TEMPORARY PAVEMENT ON THE WEST SIDE OF HALSTED STREET.
- GRIND HALSTED STREET.
- CONSTRUCT THE WIDENING, SIDEWALK, MULTI-USE PATH, AND STORM SEWER ALONG HALSTED STREET.
- THE EDGE LINES OF HALSTED STREET SHALL BE PROTECTED BY TYPE II BARRICADES OR DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHTS.

STAGE II TRAFFIC CONTROL

- OPEN 174TH STREET TO TRAFFIC AND REMOVE DETOUR SIGNING.
- REMOVE EXISTING PAVEMENT MARKINGS AND PLACE TEMPORARY MARKINGS AND SIGNS SHOWN ON THE STAGE II STAGING PLANS.
- MAINTAIN TWO-WAY TRAFFIC ALONG HALSTED STREET ALLOWING 2-12' MINIMUM TRAFFIC LANES USING EXISTING PAVEMENT.
- THE WORK TO BE DONE IN THIS PHASE SHALL BE DONE USING HIGHWAY STANDARDS 701101-05, 701311-03, 701426-08, 701701-10 AND 701801-06.

STAGE III CONSTRUCTION

- REMOVE EXISTING CONCRETE MEDIAN AND CONSTRUCT THE PROPOSED CONCRETE MEDIAN, CURB AND GUTTER, AND WIDENING IN THE CENTER OF HALSTED STREET.

STAGE III TRAFFIC CONTROL

- THE WORK TO BE DONE IN THIS PHASE SHALL BE DONE USING HIGHWAY STANDARDS 701101-05 AND 701701-10.

STAGE IV CONSTRUCTION

- RESURFACE HALSTED STREET.
- RE-STRIPE HALSTED STREET.
- COMPLETE TRAFFIC SIGNALS.
- COMPLETE STREET LIGHTING.
- COMPLETE RESTORATION ITEMS.

STAGE IV TRAFFIC CONTROL

- THE WORK TO BE DONE IN THIS PHASE SHALL BE DONE USING HIGHWAY STANDARDS 701006-05, 701422-08, 701426-08, 701427-04, 701601-09 AND 701701-10.

FILE NAME = 15323-TYPX-02 - T-01

USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 06-16-17	CHECKED -- EA	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

175TH STREET TO INTERCHANGE RAMP
IL ROUTE 1 (HALSTED STREET)
SUGGESTED CONSTRUCTION STAGING

SCALE: NONE

SHEET NO. 14 OF 87 SHEETS

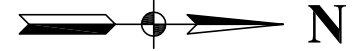
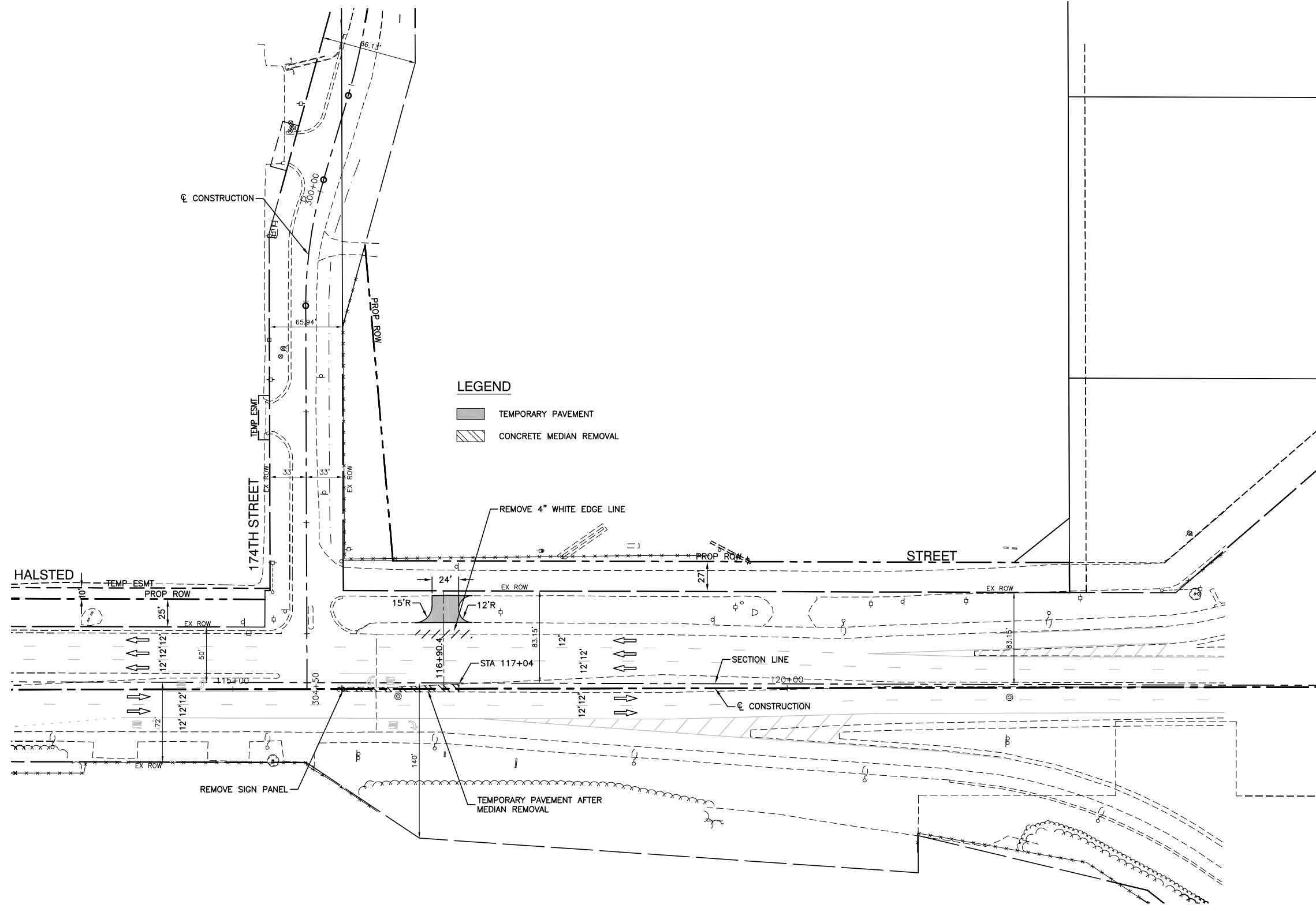
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	14
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	M-4003(039)	

LAST SAVED BY: RSG/NDK ON 1/28/17
PLOTTED BY: KEVIN MURR ON 9/7/17

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	CHECKED	
	AT OWNERS RISK	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	E.M. NOTED	



LEGEND

	TEMPORARY PAVEMENT
	CONCRETE MEDIAN REMOVAL

FILE NAME = 15323-TCON-00 - P02

USER NAME =	DESIGNED — SDK	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE = 1"=50'	DRAWN — ACAD	REVISED —
PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

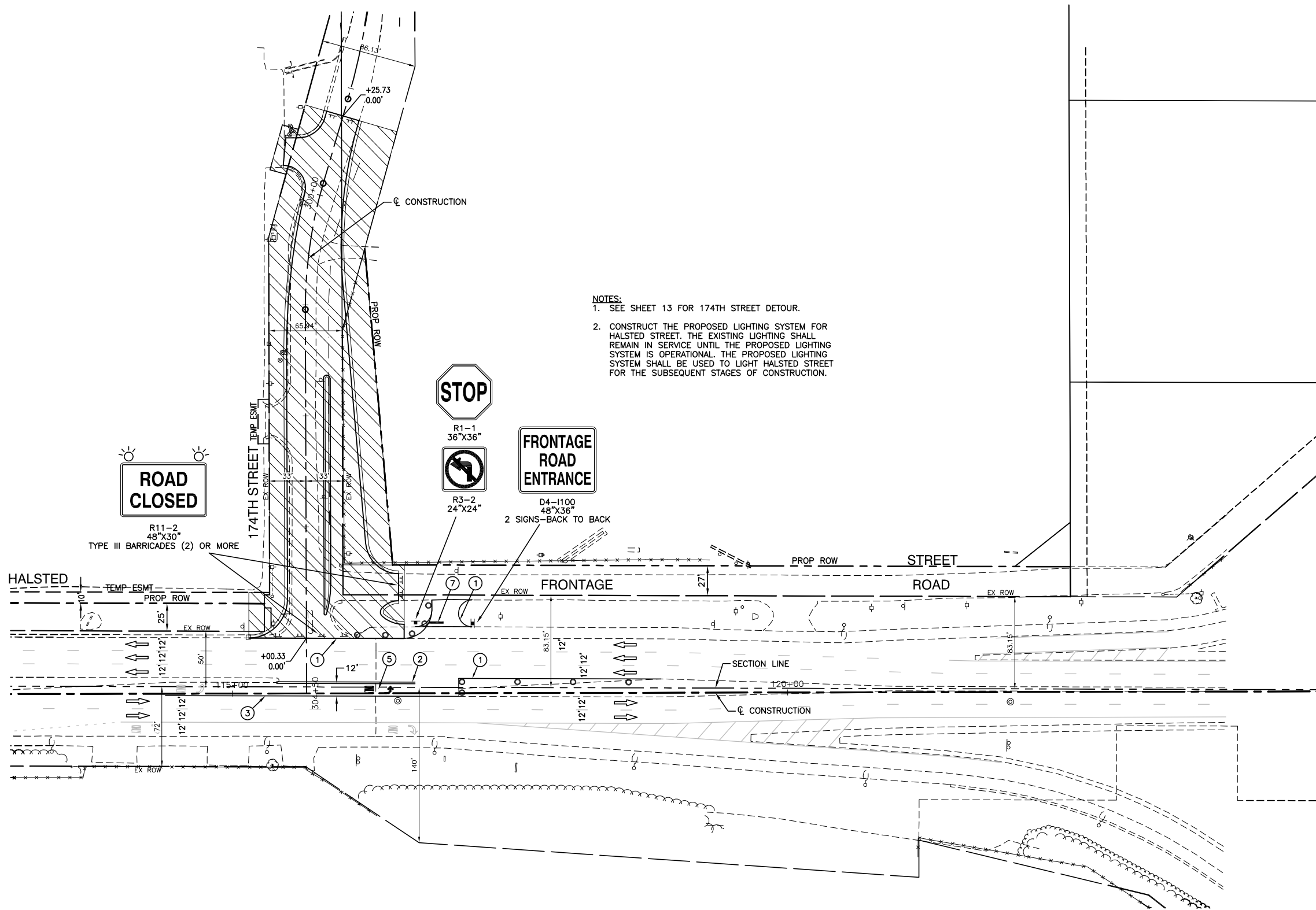
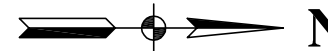
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)	
175TH STREET TO INTERCHANGE RAMP	
PRE-STAGE CONSTRUCTION	
SCALE:	TO STA.
SHEET NO. 15	OF 87 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	15
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	M-4003(039)	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	BY	
	DATE	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	BY	
	DATE	
	NO.	
	FILE NAME	



NOTES:
 1. SEE SHEET 13 FOR 174TH STREET DETOUR.
 2. CONSTRUCT THE PROPOSED LIGHTING SYSTEM FOR HALSTED STREET. THE EXISTING LIGHTING SHALL REMAIN IN SERVICE UNTIL THE PROPOSED LIGHTING SYSTEM IS OPERATIONAL. THE PROPOSED LIGHTING SYSTEM SHALL BE USED TO LIGHT HALSTED STREET FOR THE SUBSEQUENT STAGES OF CONSTRUCTION.

LEGEND

- ① 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
- ② 4" DOUBLE YELLOW CENTERLINE (11" C-C) - TEMPORARY PAVEMENT MARKINGS
- ③ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
- ④ 6" WHITE SKIP DASH (2' LINE, 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
- ⑤ WHITE LETTERS AND SYMBOLS - TEMPORARY PAVEMENT MARKINGS
- ⑥ 4" WHITE SKIP DASH (10' LINE, 30' SPACE) - TEMPORARY PAVEMENT MARKINGS
- ⑦ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
- ⑧ 8" WHITE GORE MARKING LINE - TEMPORARY PAVEMENT MARKINGS
- ⑨ 12" WHITE CHEVRONS (10' C-C) - TEMPORARY PAVEMENT MARKINGS
- ▨ WORK AREA
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING LIGHT (50' C-C)
- ⊢ TYPE III BARRICADE WITH STEADY BURNING LIGHT
- ⊢ SIGN
- ⇨ TRAFFIC FLOW

FILE NAME = 15323-TCON01 - P01

USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
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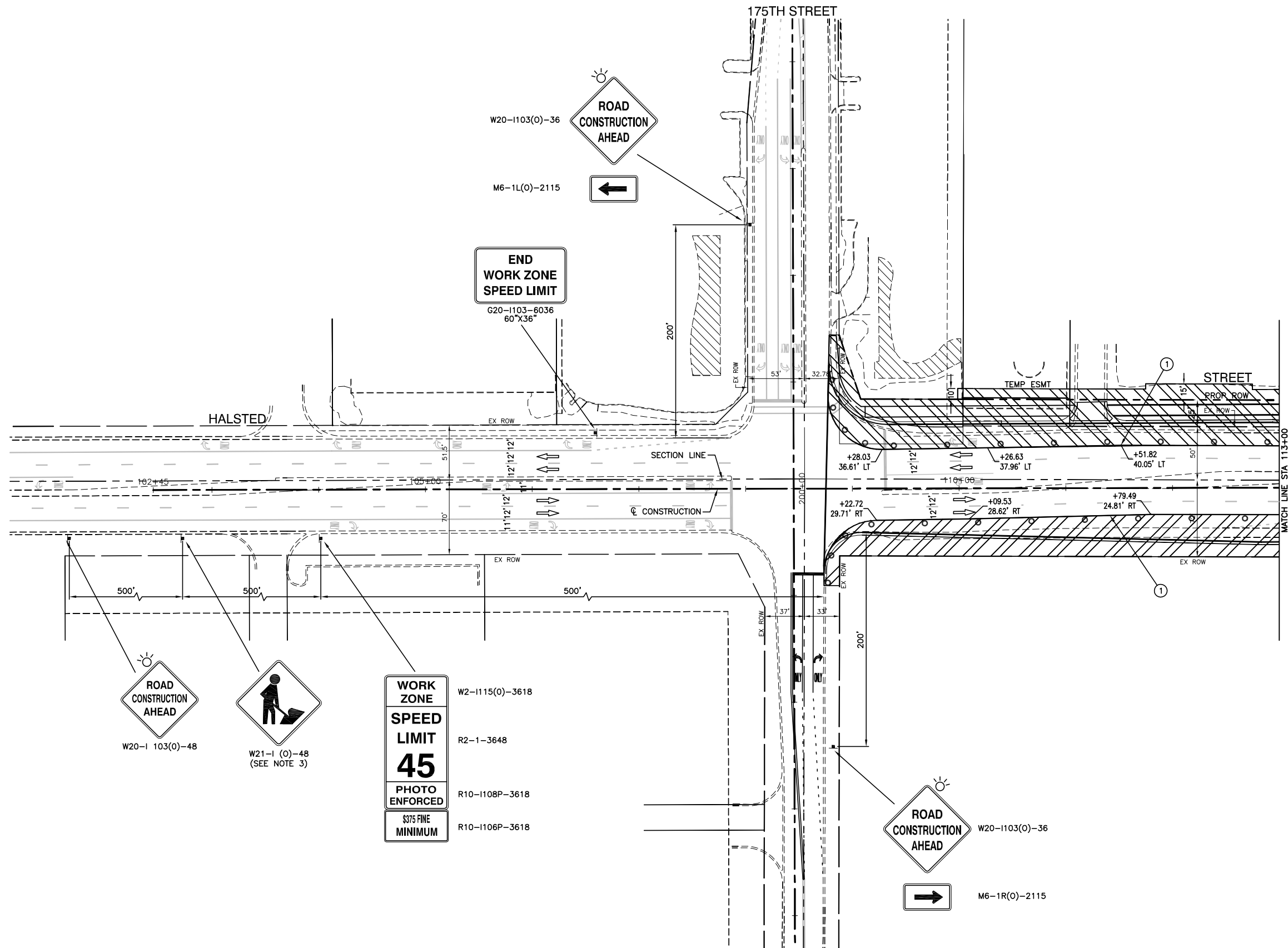
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)	
175TH STREET TO INTERCHANGE RAMP	
STAGE I	
SCALE:	SHEET NO. 16 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	16
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NOTED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NOTED	
	FILE NAME	
	NO.	



- NOTES:**
1. CONTRACTOR SHALL ERECT AND MAINTAIN POST MOUNTED 1-80/1-294 SIGNS BEHIND CURB AS WELL AS THE GORE MARKING DURING CONSTRUCTION.
 2. THESE SIGNS SHALL BE ERECTED ONLY WHEN THE SIGNALS ARE OPERATIONAL.
 3. THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.
 4. CONTRACTOR WILL BE REQUIRED TO OBTAIN A CONSTRUCTION PERMIT FROM THE ILLINOIS TOLLWAY. SEE TOLLWAY INSURANCE AND PERMIT REQUIREMENTS IN THE SPECIAL PROVISIONS FOR MORE INFORMATION.

- LEGEND**
- ① 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ② 4" DOUBLE YELLOW CENTERLINE (11" C-C) - TEMPORARY PAVEMENT MARKINGS
 - ③ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
 - ④ 6" WHITE SKIP DASH (2' LINE, 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - ⑤ WHITE LETTERS AND SYMBOLS - TEMPORARY PAVEMENT MARKINGS
 - ⑥ 4" WHITE SKIP DASH (10' LINE, 30' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - ⑦ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
 - ⑧ 8" WHITE GORE MARKING LINE - TEMPORARY PAVEMENT MARKINGS
 - ⑨ 12" WHITE CHEVRONS (10' C-C) - TEMPORARY PAVEMENT MARKINGS
 - ▨ WORK AREA
 - TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING LIGHT (50' C-C)
 - ⊥ TYPE III BARRICADE WITH STEADY BURNING LIGHT
 - ⊥ SIGN
 - ⇨ TRAFFIC FLOW

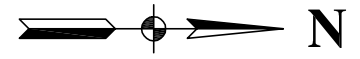
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USER NAME =	DESIGNED - SDK	REVISED -
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PLOT SCALE =	DRAWN - ACAD	REVISED -
PLOT DATE = 06-16-17	CHECKED - ACAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)	
175TH STREET TO INTERCHANGE RAMP	
STAGE II	
SCALE:	SHEET NO. 17 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	17
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



LEGEND

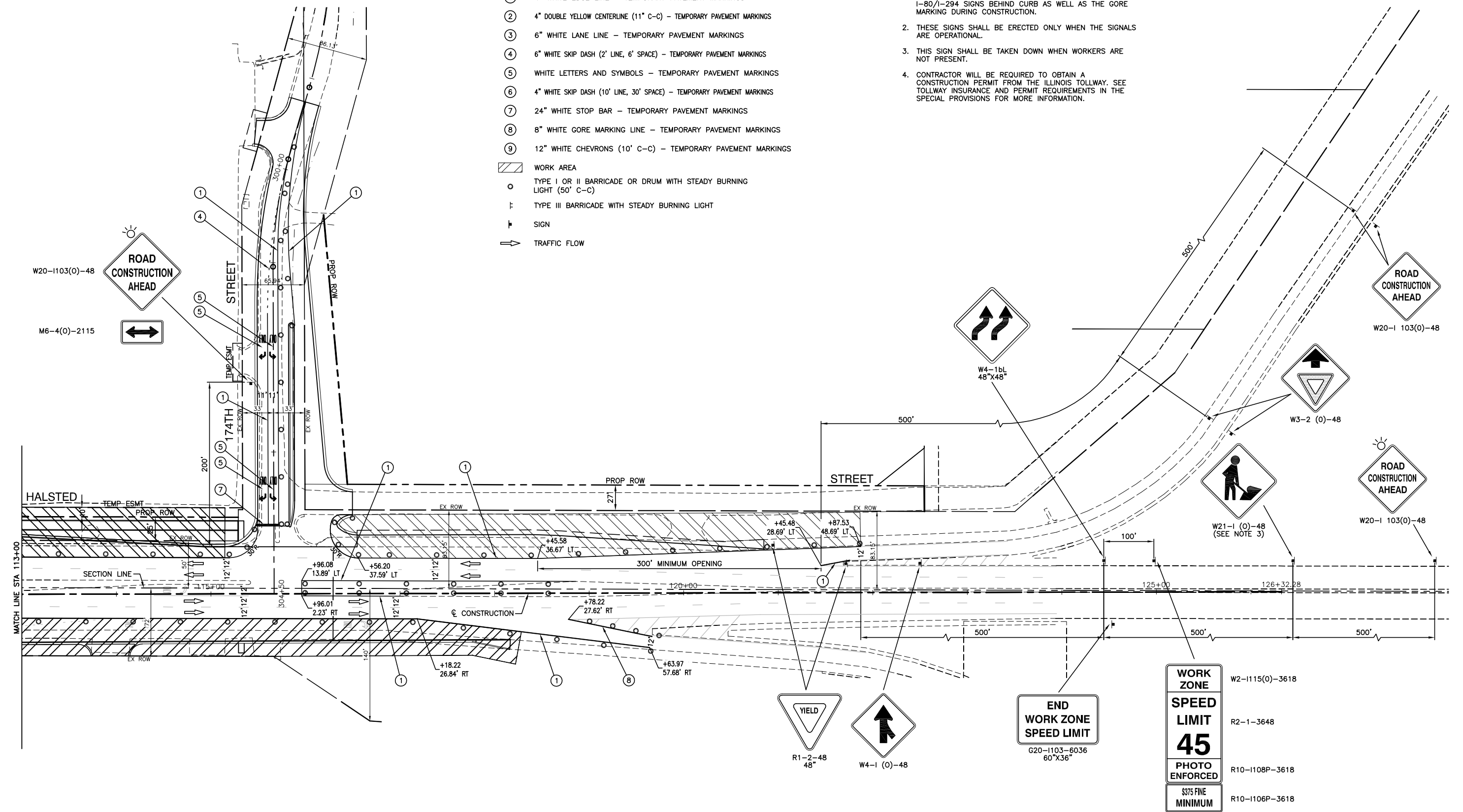
- ① 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
- ② 4" DOUBLE YELLOW CENTERLINE (11" C-C) - TEMPORARY PAVEMENT MARKINGS
- ③ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
- ④ 6" WHITE SKIP DASH (2' LINE, 6' SPACE) - TEMPORARY PAVEMENT MARKINGS
- ⑤ WHITE LETTERS AND SYMBOLS - TEMPORARY PAVEMENT MARKINGS
- ⑥ 4" WHITE SKIP DASH (10' LINE, 30' SPACE) - TEMPORARY PAVEMENT MARKINGS
- ⑦ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
- ⑧ 8" WHITE GORE MARKING LINE - TEMPORARY PAVEMENT MARKINGS
- ⑨ 12" WHITE CHEVRONS (10' C-C) - TEMPORARY PAVEMENT MARKINGS
- ▨ WORK AREA
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING LIGHT (50' C-C)
- ⊥ TYPE III BARRICADE WITH STEADY BURNING LIGHT
- ⊥ SIGN
- ⇨ TRAFFIC FLOW

NOTES:

1. CONTRACTOR SHALL ERECT AND MAINTAIN POST MOUNTED 1-80/1-294 SIGNS BEHIND CURB AS WELL AS THE GORE MARKING DURING CONSTRUCTION.
2. THESE SIGNS SHALL BE ERECTED ONLY WHEN THE SIGNALS ARE OPERATIONAL.
3. THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.
4. CONTRACTOR WILL BE REQUIRED TO OBTAIN A CONSTRUCTION PERMIT FROM THE ILLINOIS TOLLWAY. SEE TOLLWAY INSURANCE AND PERMIT REQUIREMENTS IN THE SPECIAL PROVISIONS FOR MORE INFORMATION.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK	
	NO.	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK	
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	DATE	



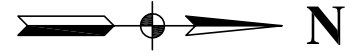
FILE NAME = 15323-TC04-02 - P02

USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 06-16-17	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

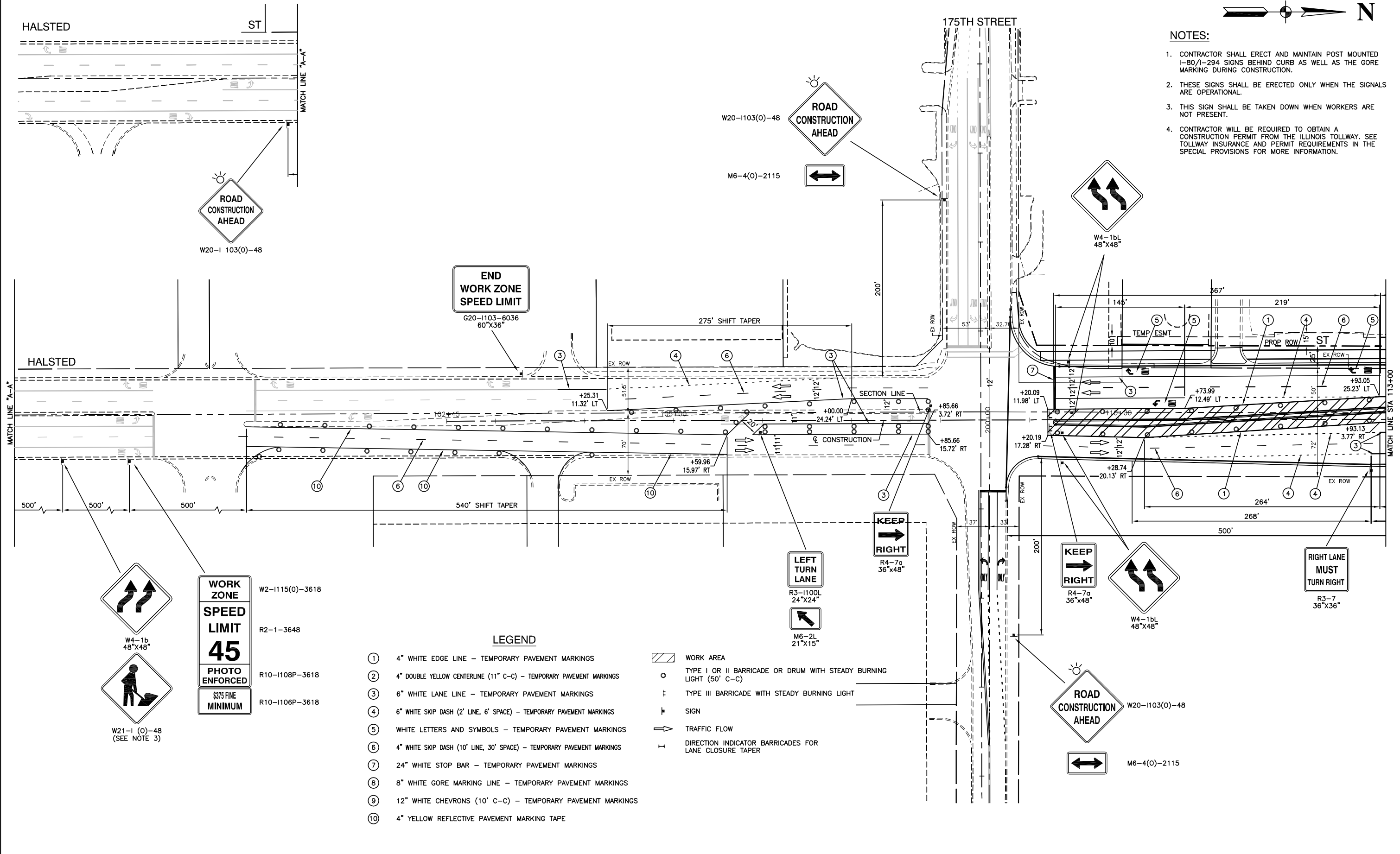
IL ROUTE 1 (HALSTED STREET)	
175TH STREET TO INTERCHANGE RAMP	
STAGE II	
SCALE:	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	18
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



NOTES:

1. CONTRACTOR SHALL ERECT AND MAINTAIN POST MOUNTED 1-80/1-294 SIGNS BEHIND CURB AS WELL AS THE GORE MARKING DURING CONSTRUCTION.
2. THESE SIGNS SHALL BE ERECTED ONLY WHEN THE SIGNALS ARE OPERATIONAL.
3. THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.
4. CONTRACTOR WILL BE REQUIRED TO OBTAIN A CONSTRUCTION PERMIT FROM THE ILLINOIS TOLLWAY. SEE TOLLWAY INSURANCE AND PERMIT REQUIREMENTS IN THE SPECIAL PROVISIONS FOR MORE INFORMATION.



END WORK ZONE SPEED LIMIT
G20-1103-6036
60\"X36\"

LEGEND

- | | |
|--|--|
| <ul style="list-style-type: none"> ① 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS ② 4" DOUBLE YELLOW CENTERLINE (11" C-C) - TEMPORARY PAVEMENT MARKINGS ③ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS ④ 6" WHITE SKIP DASH (2' LINE, 6' SPACE) - TEMPORARY PAVEMENT MARKINGS ⑤ WHITE LETTERS AND SYMBOLS - TEMPORARY PAVEMENT MARKINGS ⑥ 4" WHITE SKIP DASH (10' LINE, 30' SPACE) - TEMPORARY PAVEMENT MARKINGS ⑦ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS ⑧ 8" WHITE GORE MARKING LINE - TEMPORARY PAVEMENT MARKINGS ⑨ 12" WHITE CHEVRONS (10' C-C) - TEMPORARY PAVEMENT MARKINGS ⑩ 4" YELLOW REFLECTIVE PAVEMENT MARKING TAPE | <ul style="list-style-type: none"> WORK AREA TYPE I OR II BARRICADE OR DRUM WITH STEADY BURNING LIGHT (50' C-C) TYPE III BARRICADE WITH STEADY BURNING LIGHT SIGN TRAFFIC FLOW DIRECTION INDICATOR BARRICADES FOR LANE CLOSURE TAPER |
|--|--|

FILE NAME = 15323-TC04-03 - P01

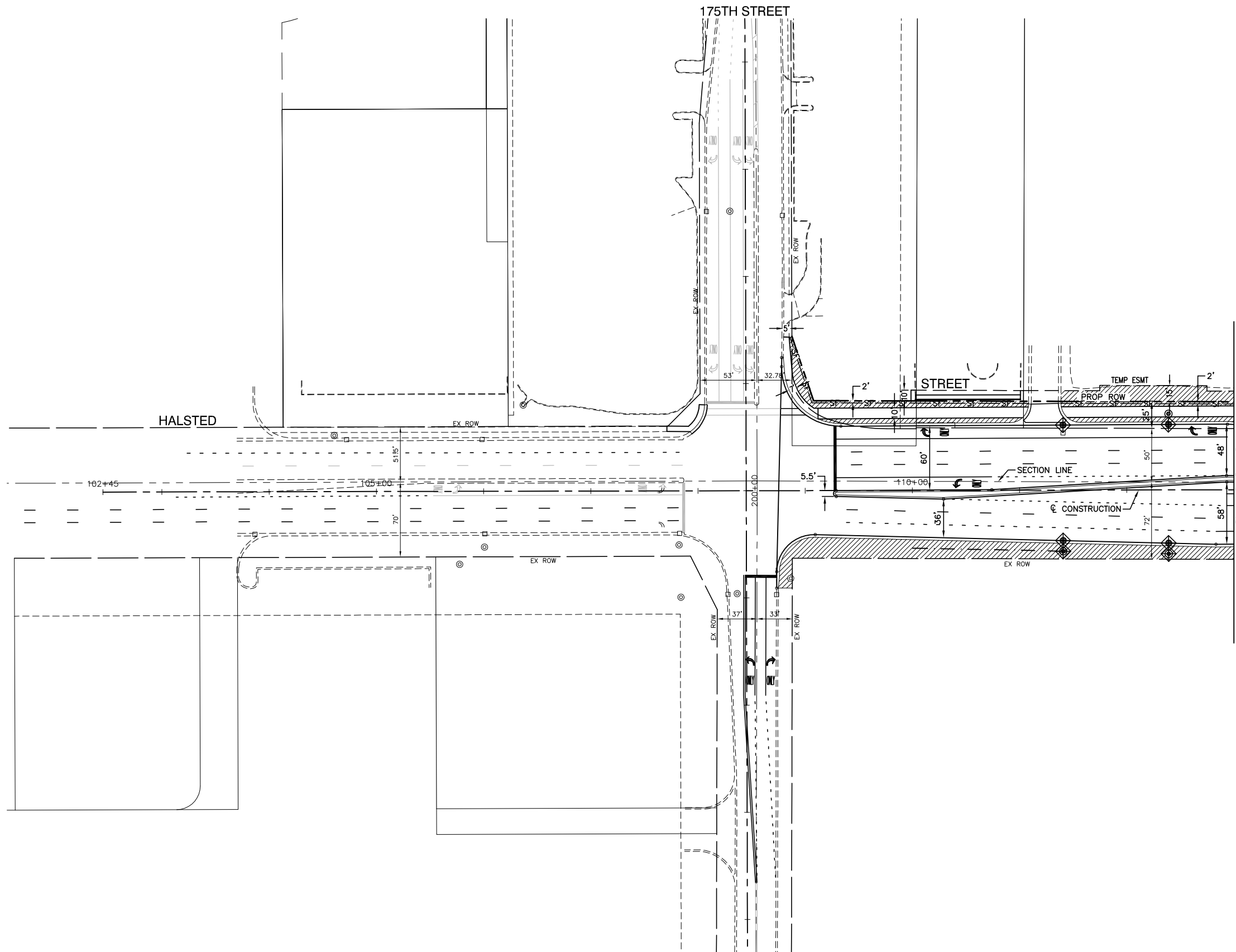
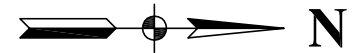
USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 06-16-17	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 1 (HALSTED STREET) 175TH STREET TO INTERCHANGE RAMP STAGE III			
SCALE:	SHEET NO. 19 OF 87 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	19
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-4003(039)	

CONTRACT NO. 61D42



KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER
	INLET FILTER
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECKS
	FILTER FABRIC STONE RIP RAP (CLASS A3)
	SEEDING, CLASS 2A AND EROSION CONTROL BLANKET

FILE NAME = 15323-LNCS-01 - P01

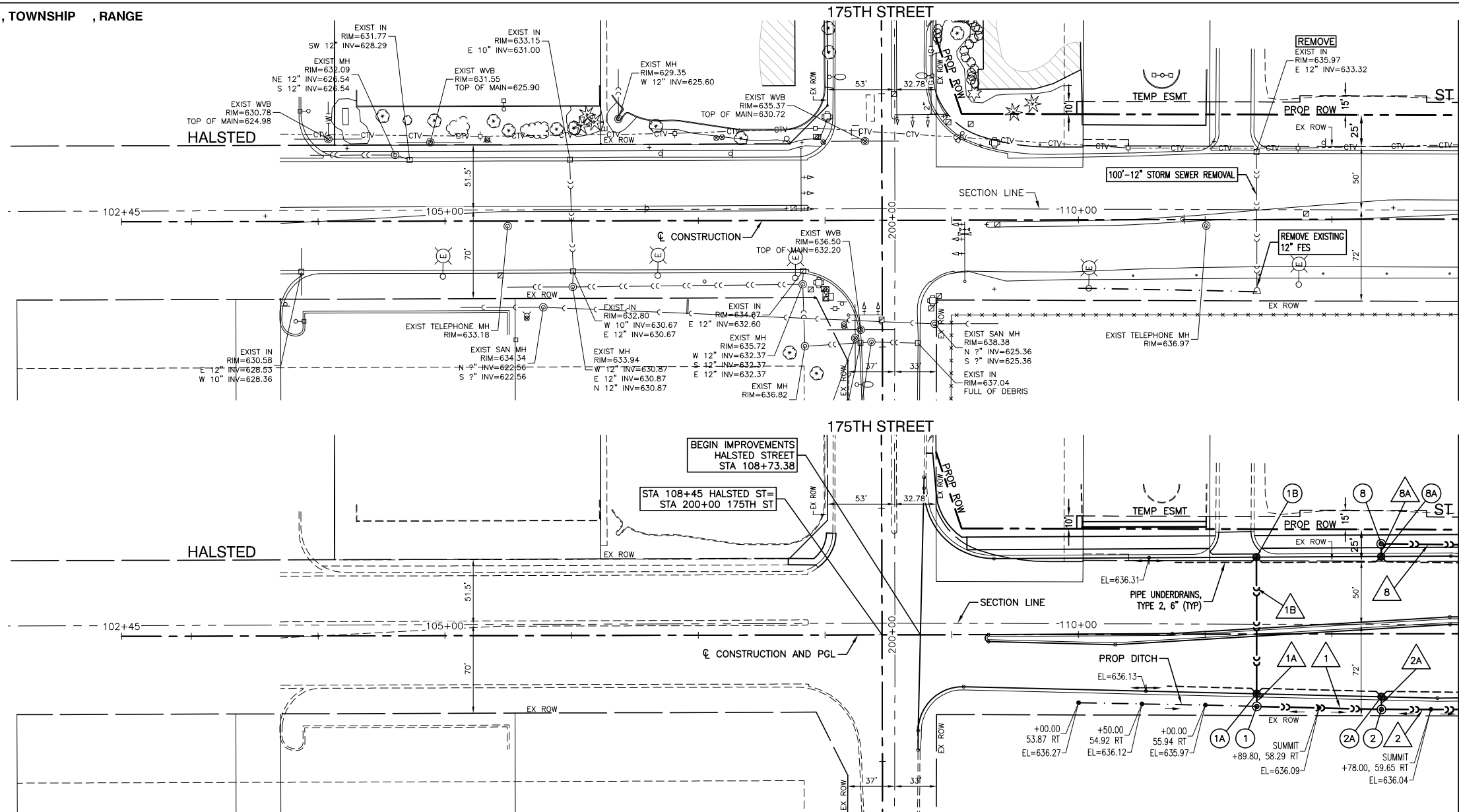
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	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — KWM	REVISED —
PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
LANDSCAPING & EROSION CONTROL

SCALE: SHEET NO. 21 OF 87 SHEETS STA. TO STA.

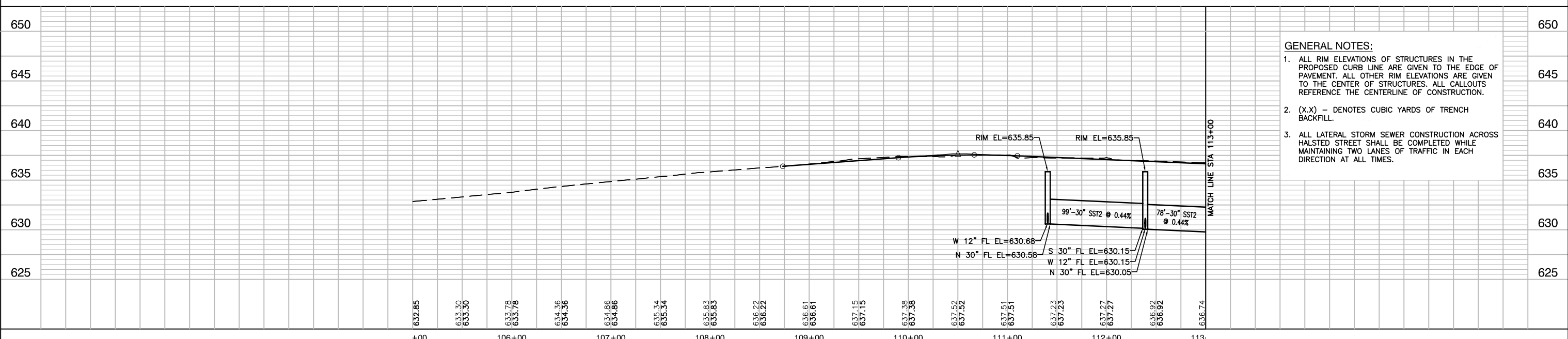
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	21
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



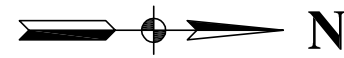
N

① STA 111+40.6, 57.07' RT MH TA, 5' DIA, T8G RIM EL=635.85 W 12" INV=630.68 N 30" INV=630.58	①A STA 111+40.60, 47.07' RT CB TA, 4' DIA, T1F OL RIM EL=636.02 W 12" INV=630.88 E 12" INV=630.78
①B STA 111+40.60, 60.72' LT INLET TA, T1F OL RIM EL=636.10 E 12" INV=631.96	② STA 112+39, 59.65' RT MH TA 5' DIA, T8G RIM EL=635.85 W 12" INV=630.15 S 30" INV=630.15 N 30" INV=630.05
②A STA 112+39, 49.65' RT CB TC, T1F OL RIM EL=635.84 E 12" INV=630.25	⑧ STA 112+39, 71.05' LT MH TA, 4' DIA, T1F OL RIM EL=636.05 E 12" INV=631.29 N 12" INV=631.19
⑧A STA 112+39, 61.05' LT CB TC, T1F OL RIM EL=636.19 W 12" INV=631.39	

①	99'-30" SST2 @ 0.44%
①A	10'-12" SST2 @ 1.00% (3.6)
①B	108'-12" SST2 @ 1.00% (69.0)
②	78'-30" SST2 @ 0.44%
②A	10'-12" SST2 @ 1.00% (4.3)
⑧A	10'-12" SST2 @ 0.44% (6.6)
⑧	78'-12" SST2 @ 1.00% (54.7)



- GENERAL 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 CALLOUTS REFERENCE THE CENTERLINE OF CONSTRUCTION.
 - (X.X) - DENOTES CUBIC YARDS OF TRENCH BACKFILL.
 - ALL LATERAL STORM SEWER CONSTRUCTION ACROSS HALSTED STREET SHALL BE COMPLETED WHILE MAINTAINING TWO LANES OF TRAFFIC IN EACH DIRECTION AT ALL TIMES.

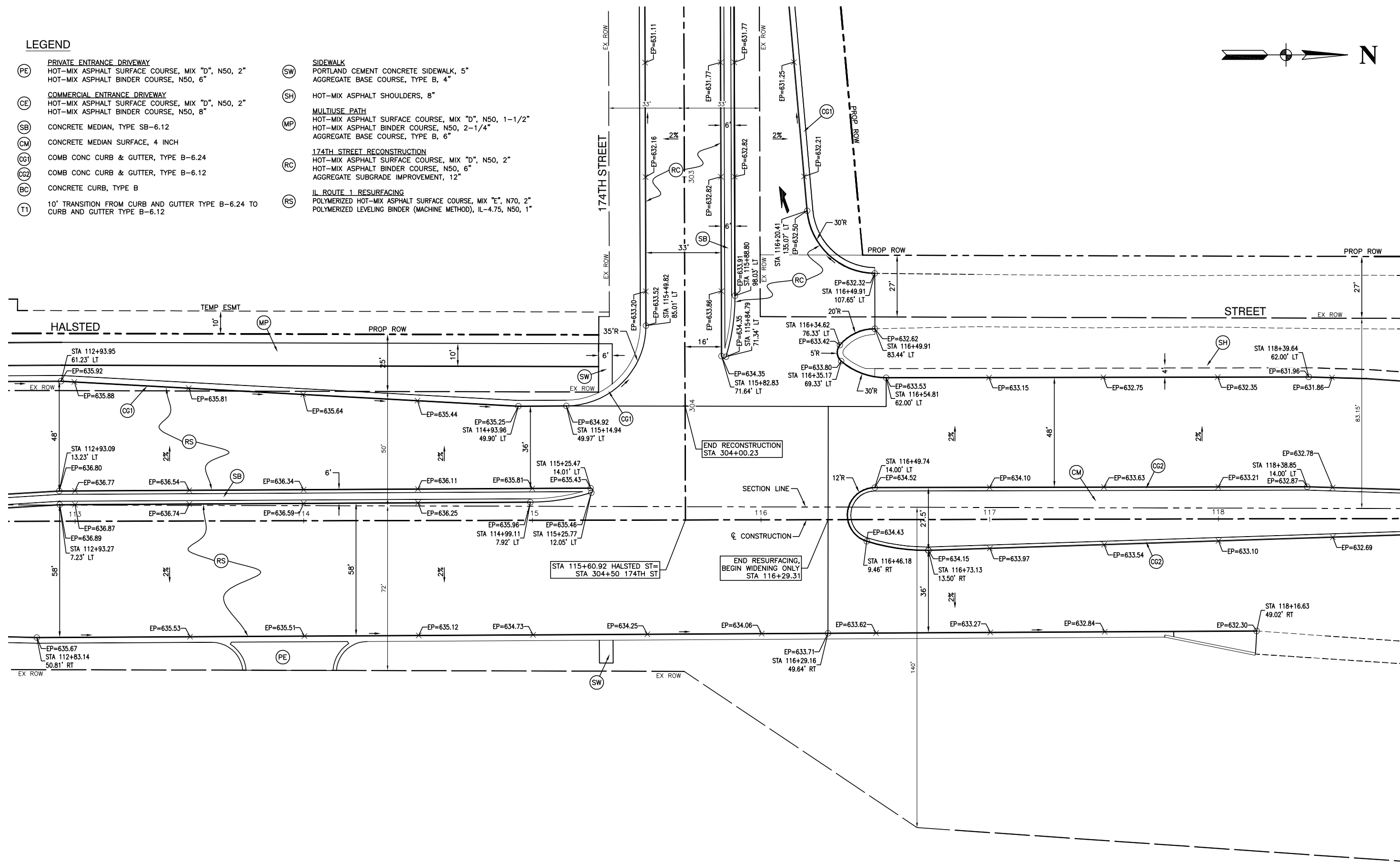


LEGEND

- (PE) PRIVATE ENTRANCE DRIVEWAY
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
HOT-MIX ASPHALT BINDER COURSE, N50, 6"
- (CE) COMMERCIAL ENTRANCE DRIVEWAY
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
HOT-MIX ASPHALT BINDER COURSE, N50, 8"
- (SB) CONCRETE MEDIAN, TYPE SB-6.12
- (CM) CONCRETE MEDIAN SURFACE, 4 INCH
- (CG1) COMB CONC CURB & GUTTER, TYPE B-6.24
- (CG2) COMB CONC CURB & GUTTER, TYPE B-6.12
- (BC) CONCRETE CURB, TYPE B
- (T1) 10' TRANSITION FROM CURB AND GUTTER TYPE B-6.24 TO CURB AND GUTTER TYPE B-6.12
- (SW) SIDEWALK
PORTLAND CEMENT CONCRETE SIDEWALK, 5"
AGGREGATE BASE COURSE, TYPE B, 4"
- (SH) HOT-MIX ASPHALT SHOULDERS, 8"
- (MP) MULTILANE PATH
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"
HOT-MIX ASPHALT BINDER COURSE, N50, 2-1/4"
AGGREGATE BASE COURSE, TYPE B, 6"
- (RC) 174TH STREET RECONSTRUCTION
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
HOT-MIX ASPHALT BINDER COURSE, N50, 6"
AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (RS) IL ROUTE 1 RESURFACING
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 2"
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	BY	
	NO.	



FILE NAME = 15323-PLAN-01 - P01

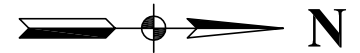
USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 06-16-17	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
INTERSECTION DETAIL

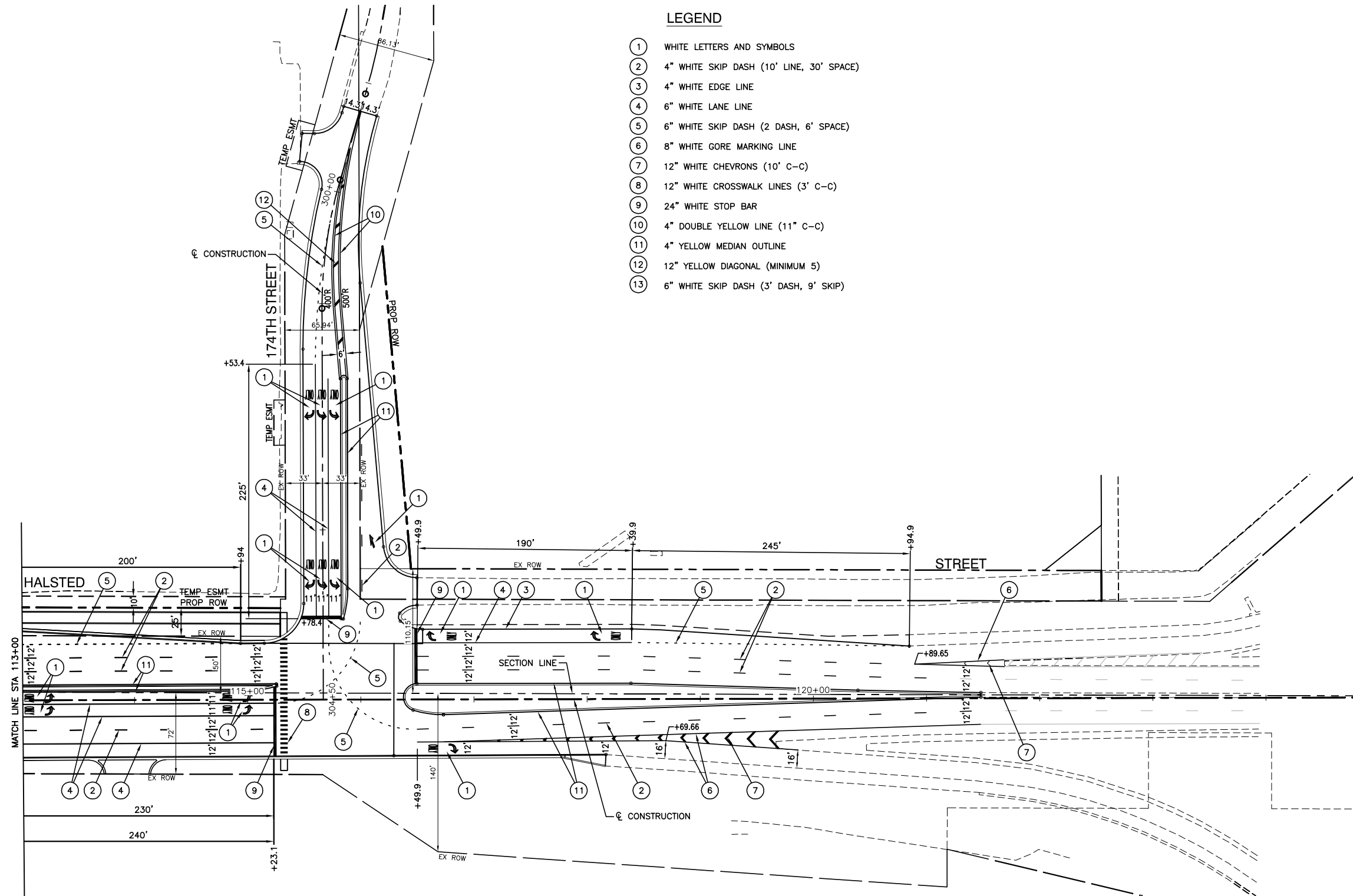
SCALE: SHEET NO. 26 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	26
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



LEGEND

- ① WHITE LETTERS AND SYMBOLS
- ② 4" WHITE SKIP DASH (10' LINE, 30' SPACE)
- ③ 4" WHITE EDGE LINE
- ④ 6" WHITE LANE LINE
- ⑤ 6" WHITE SKIP DASH (2 DASH, 6' SPACE)
- ⑥ 8" WHITE GORE MARKING LINE
- ⑦ 12" WHITE CHEVRONS (10' C-C)
- ⑧ 12" WHITE CROSSWALK LINES (3' C-C)
- ⑨ 24" WHITE STOP BAR
- ⑩ 4" DOUBLE YELLOW LINE (11" C-C)
- ⑪ 4" YELLOW MEDIAN OUTLINE
- ⑫ 12" YELLOW DIAGONAL (MINIMUM 5)
- ⑬ 6" WHITE SKIP DASH (3' DASH, 9' SKIP)



FILE NAME = 15323-PVMK-01 - P02

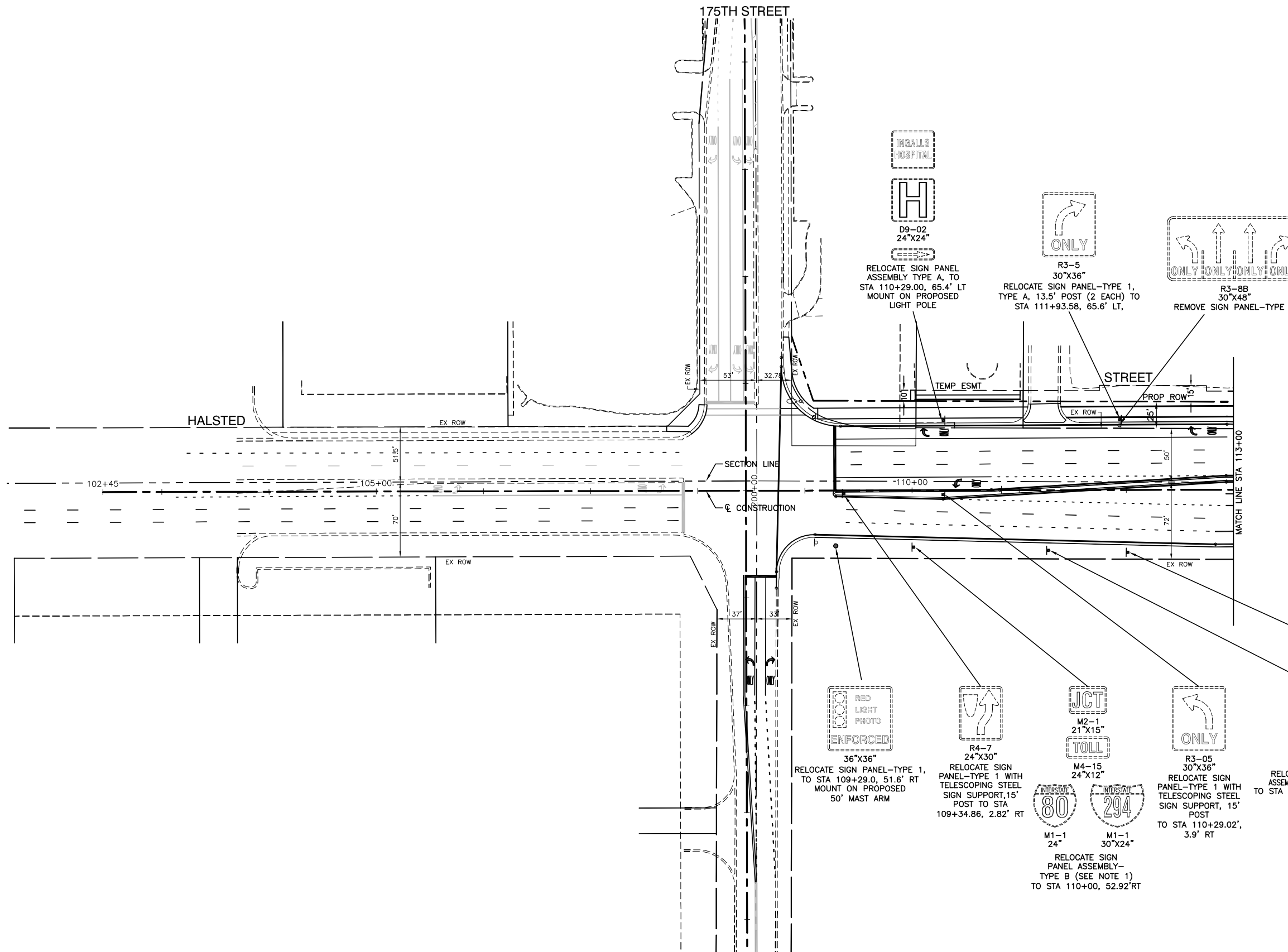
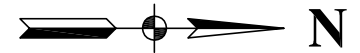
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	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
PAVEMENT MARKING

SCALE: SHEET NO. 28 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	28
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



- D9-02
24"x24"
RELOCATE SIGN PANEL ASSEMBLY TYPE A, TO STA 110+29.00, 65.4' LT MOUNT ON PROPOSED LIGHT POLE
- R3-5
30"x36"
RELOCATE SIGN PANEL-TYPE 1, TYPE A, 13.5' POST (2 EACH) TO STA 111+93.58, 65.6' LT,
- R3-BB
30"x48"
REMOVE SIGN PANEL-TYPE 2
- R4-7
24"x30"
RELOCATE SIGN PANEL-TYPE 1 WITH TELESCOPING STEEL SIGN SUPPORT, 15' POST TO STA 109+34.86, 2.82' RT
- M2-1
21"x15"
M4-15
24"x12"
RELOCATE SIGN PANEL-TYPE 1 WITH TELESCOPING STEEL SIGN SUPPORT, 15' POST TO STA 110+29.02', 3.9' RT
- M1-1
24"
M1-1
30"x24"
RELOCATE SIGN PANEL ASSEMBLY-TYPE B (SEE NOTE 1) TO STA 110+00, 52.92' RT
- R3-05
30"x36"
RELOCATE SIGN PANEL-TYPE 1 WITH TELESCOPING STEEL SIGN SUPPORT, 15' POST TO STA 110+29.02', 3.9' RT
- D3-1
24"x6"
RELOCATE SIGN PANEL ASSEMBLY-TYPE A, 14' POST TO STA 111+25.42, 56.22' RT
- M4-15
24"x12"
EAST
M3-2
24"x12"
INTERSTATE
80
M1-1
24"
INTERSTATE
294
M1-1
30"x24"
RIGHT LANE
M5-6
24"x18"
SIGN PANEL ASSEMBLY, TYPE B STA 112+00, 58.16' RT

FILE NAME = 15323-SIGN-01 - P01

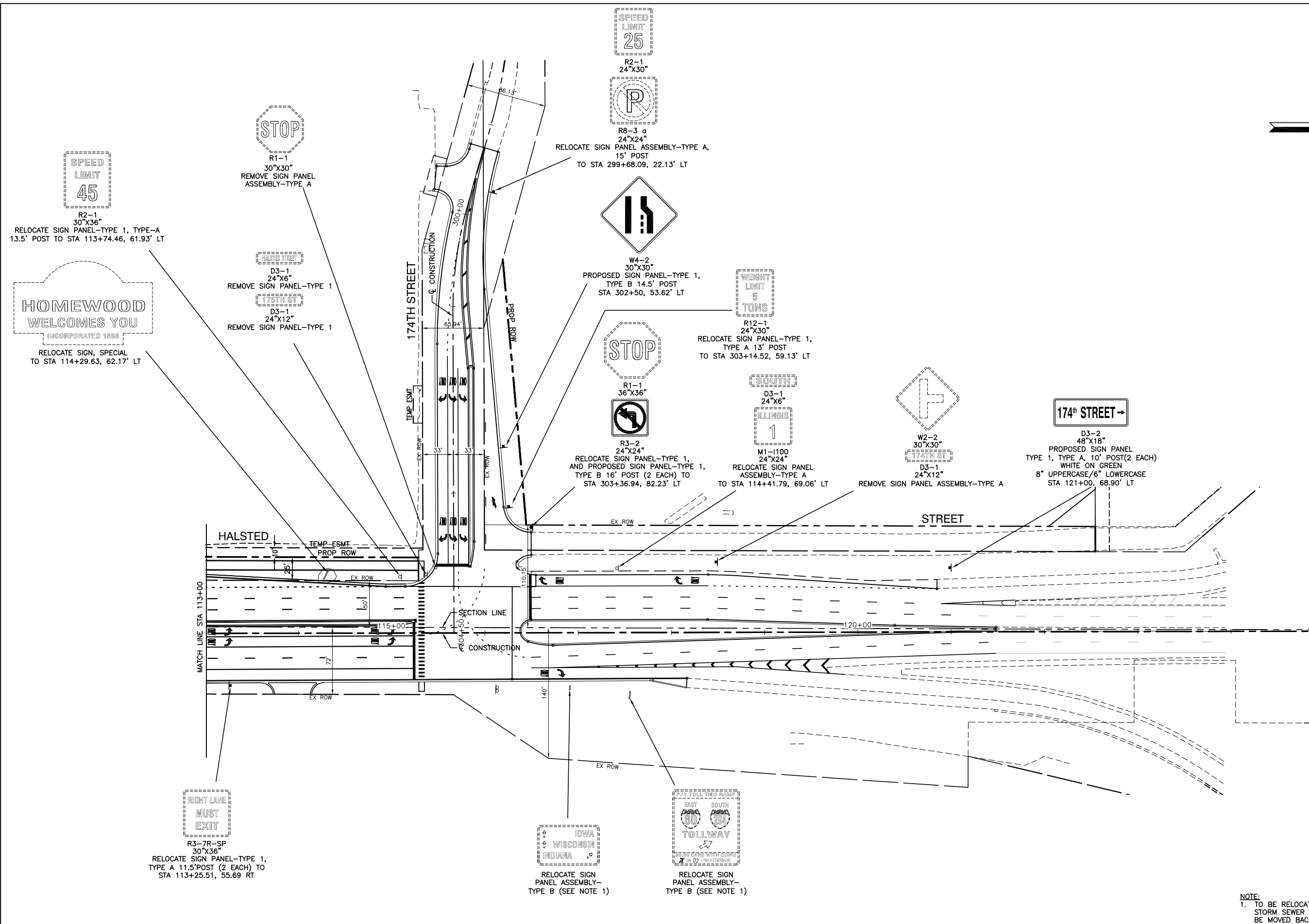
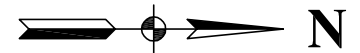
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	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- KWM	REVISED --
PLOT DATE = 06-16-17	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
SIGNING

SCALE: SHEET NO. 29 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	29
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



NOTE:
 1. TO BE RELOCATED AS NECESSARY DURING STORM SEWER CONSTRUCTION. SIGN TO BE MOVED BACK TO ORIGINAL LOCATION.

FILE NAME = 15323-SIGN-01 - P02

USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- KWM	REVISED --
PLOT DATE = 06-16-17	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET) 175TH STREET TO INTERCHANGE RAMP SIGNING			
SCALE:	SHEET NO. 30 OF 87 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	30
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

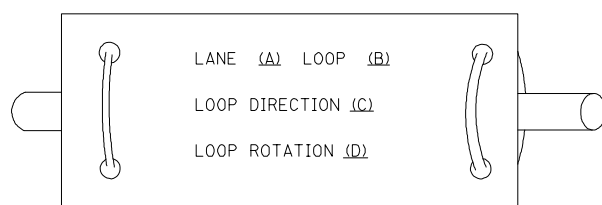
TS SHT NO. 1

FILE NAME = 15323-DTLS-TS05 - P01	USER NAME = leysa	DESIGNED -- IP	REVISD --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	CHECKED -- IP	REVISED --	F.A.P. RTE. 0876	SECTION 12-00023-00-WR	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 31	
PLOT SCALE = 50,0000' / 1" =	DRAWN -- LP	REVISD --				TS-05		CONTRACT NO. 61D42					
PLOT DATE = 9/29/2016	CHECKED -- 9/29/2016	REVISD --				SCALE: NONE		SHEET NO. 31 OF 87 SHEETS		STA. TO STA.			
						FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT M-4003(039)			

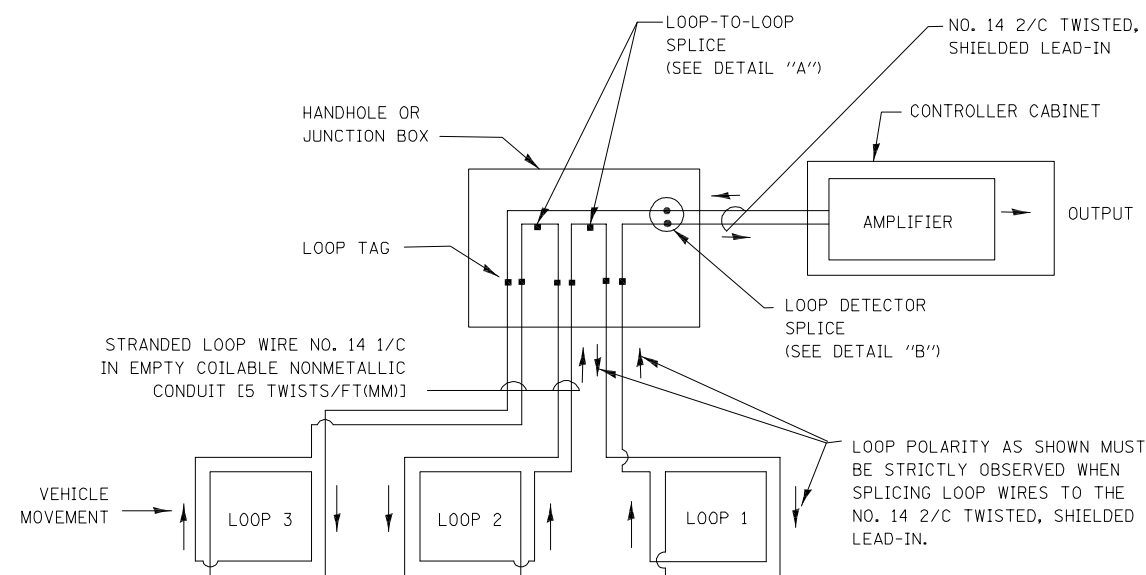
LOOP DETECTOR NOTES

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

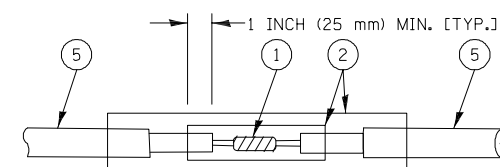


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

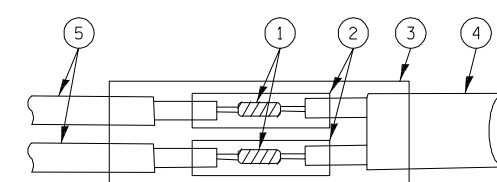


DETECTOR LOOP WIRING SCHEMATIC

- 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.

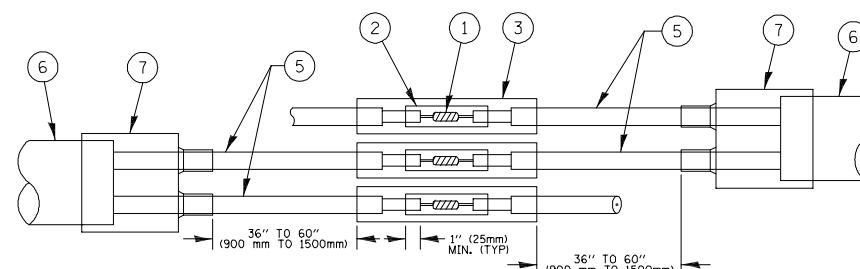


DETAIL "A"
LOOP-TO-LOOP SPLICE

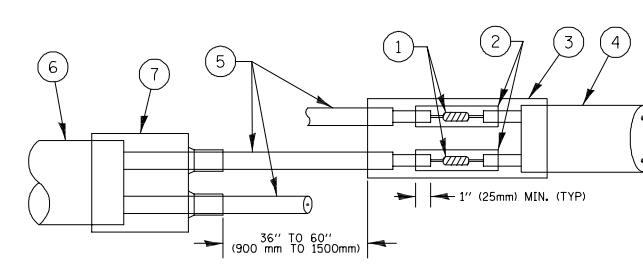


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

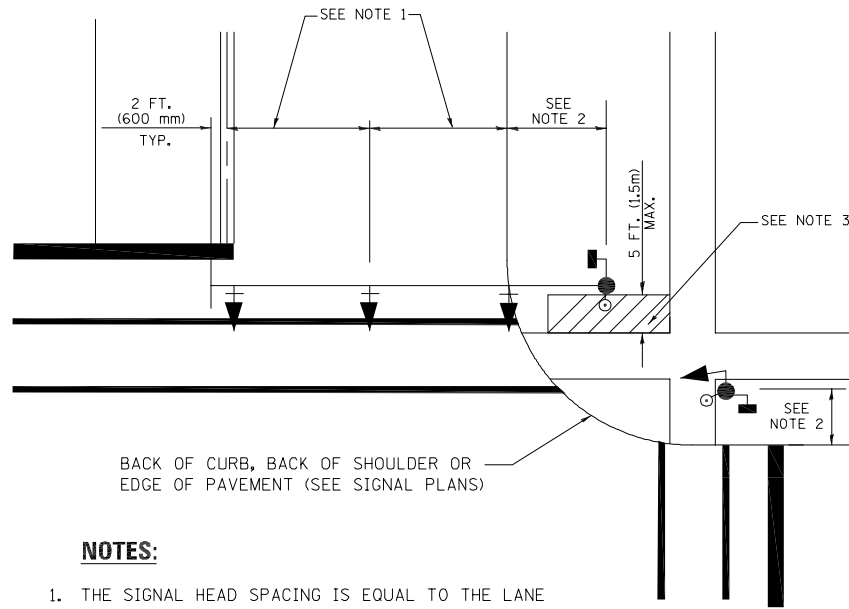
LOOP DETECTOR SPLICE

- 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

TS SHT NO. 2

FILE NAME = 15323-DTLS-TS05 - P02	USER NAME = pascencia	DESIGNED --	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED --	REVISED --			0876	12-00023-00-WR	COOK	87	32	
	PLOT SCALE = 1/8" = 100.0000' / 1"	DRAWN --	REVISED --			TS-05		CONTRACT NO. 61D42			
	PLOT DATE = 5/17/2016	CHECKED --	REVISED --			SCALE: NONE	SHEET NO. 32 OF 87 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)		

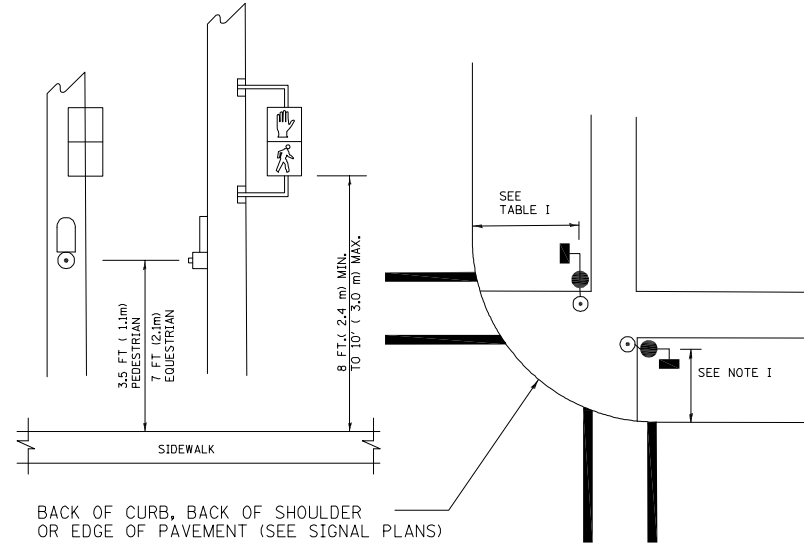
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

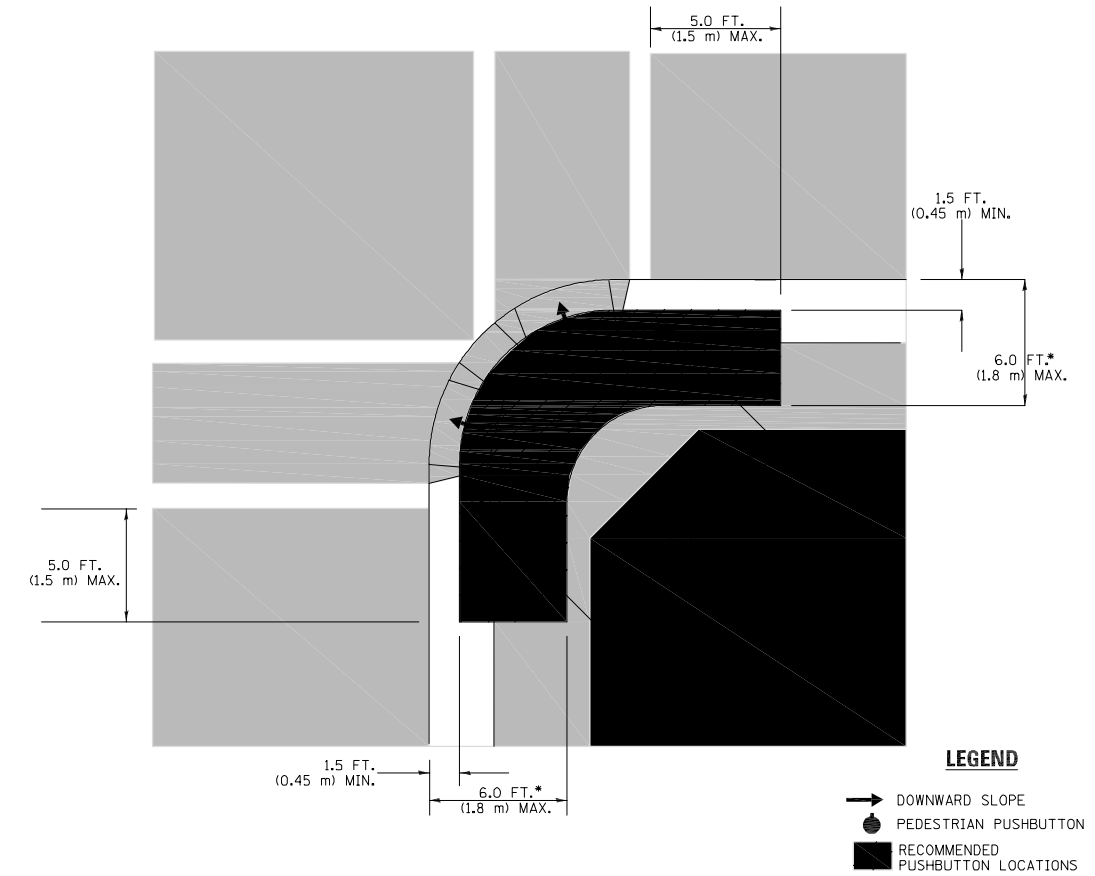
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

TS SHT NO. 3

FILE NAME = 15323-DTLS-TS05 - P03

USER NAME = pascencia1	DESIGNED --	REVISED --
	CHECKED --	REVISED --
PLOT SCALE = 100.0000' / 1" =	DRAWN --	REVISED --
PLOT DATE = 5/17/2016	CHECKED --	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

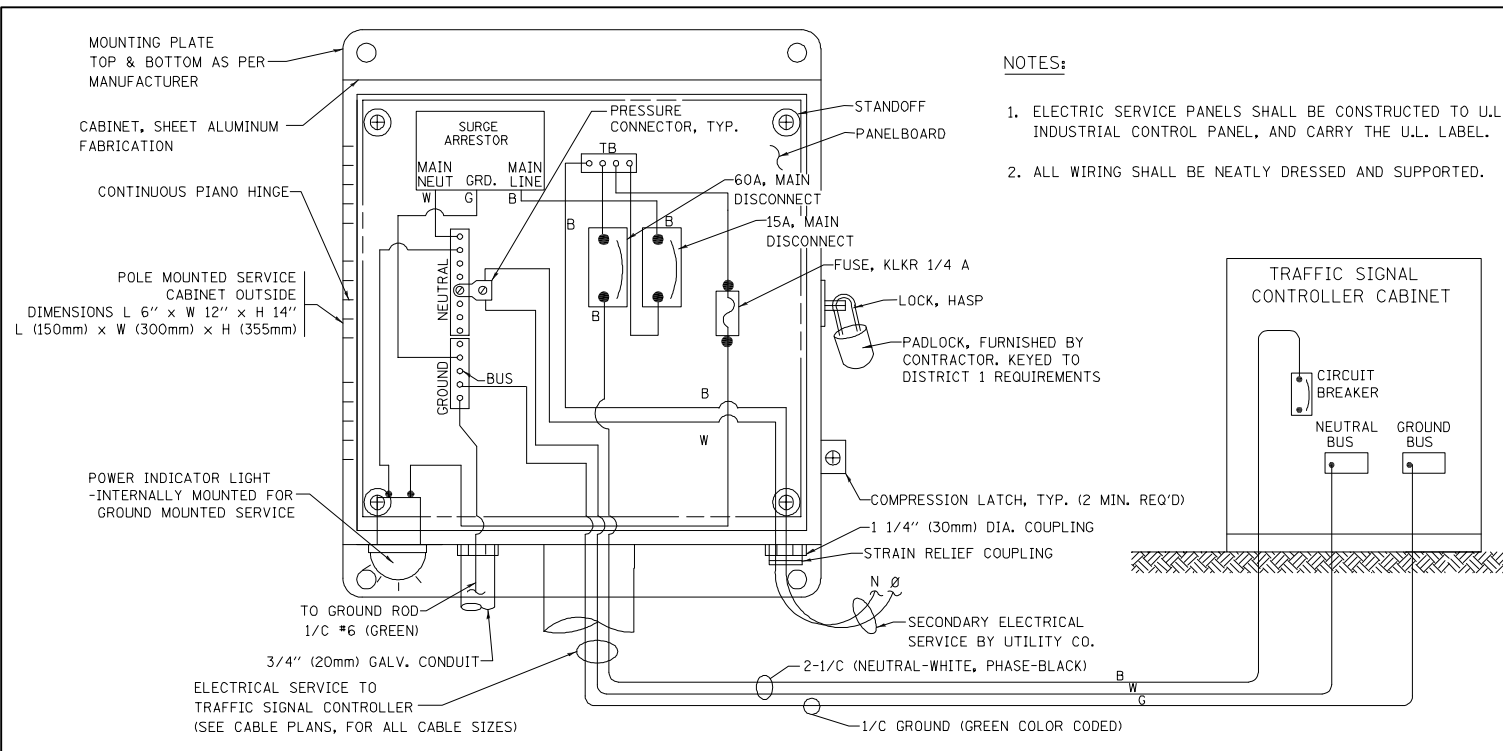
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

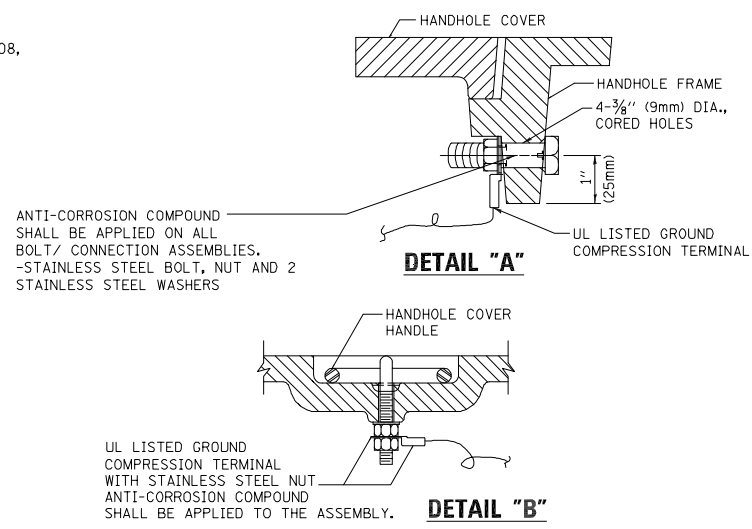
SHEET NO. 33 OF 87 SHEETS

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	33
TS-05		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		

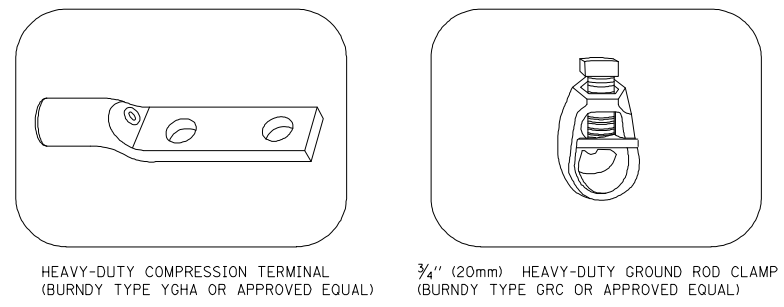
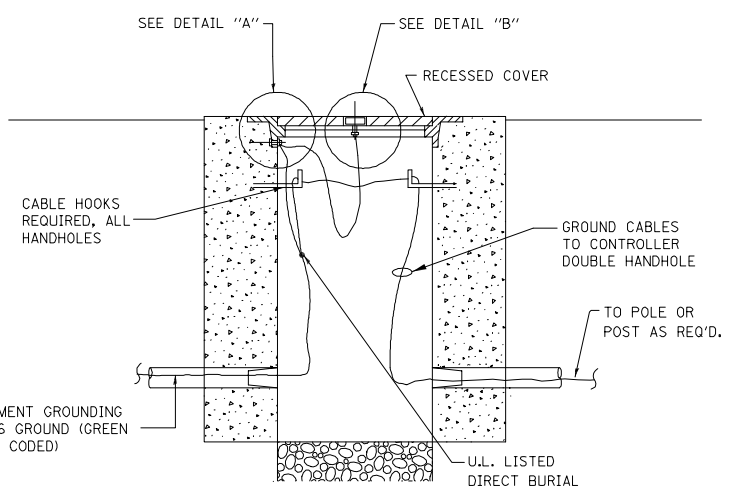


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



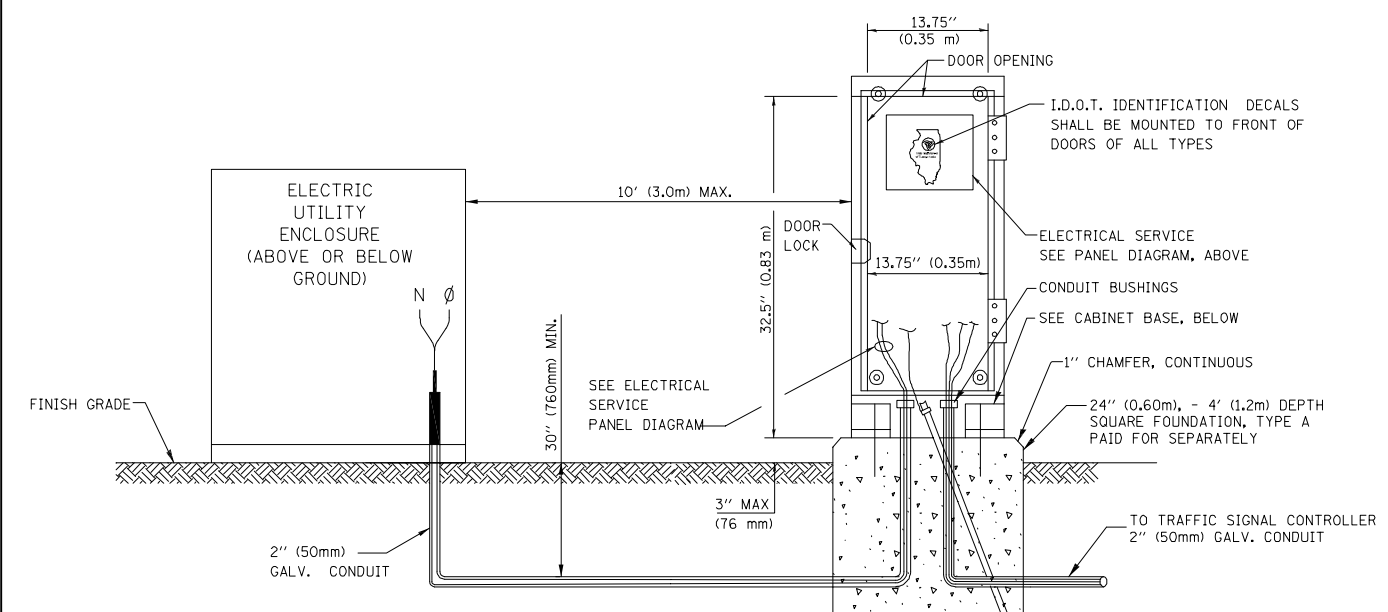
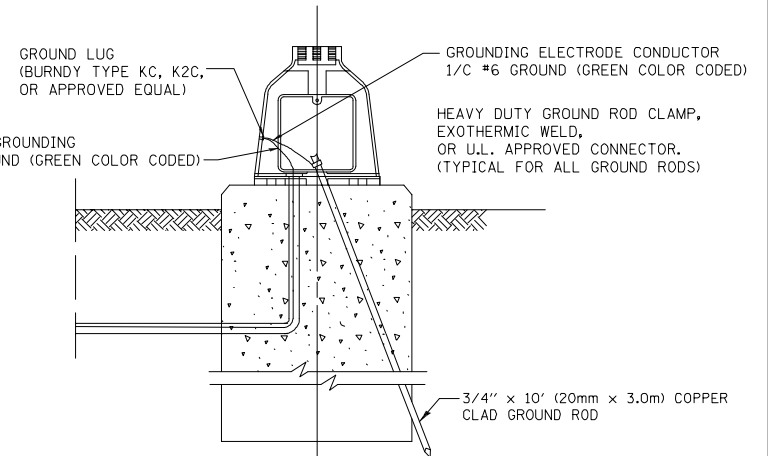
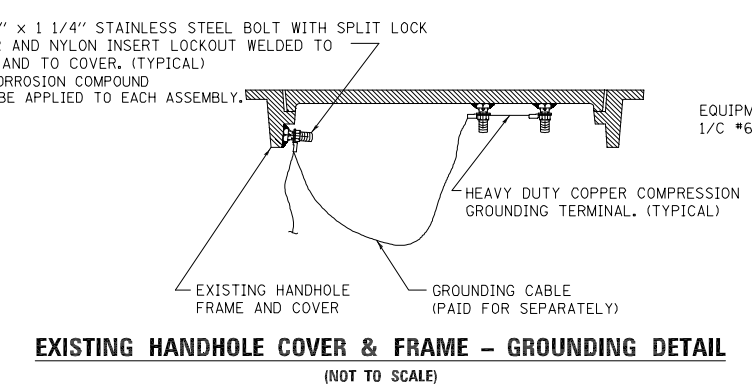
NOTES:
GROUNDING SYSTEM

- 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. 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.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

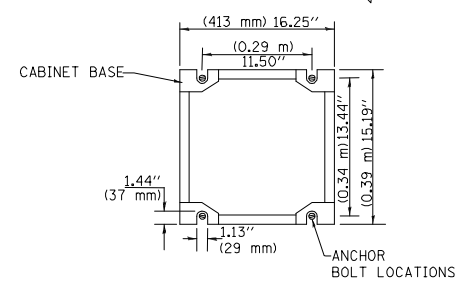


NOTES:

- 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.



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)



CABINET – BASE BOLT PATTERN
 (NOT TO SCALE)

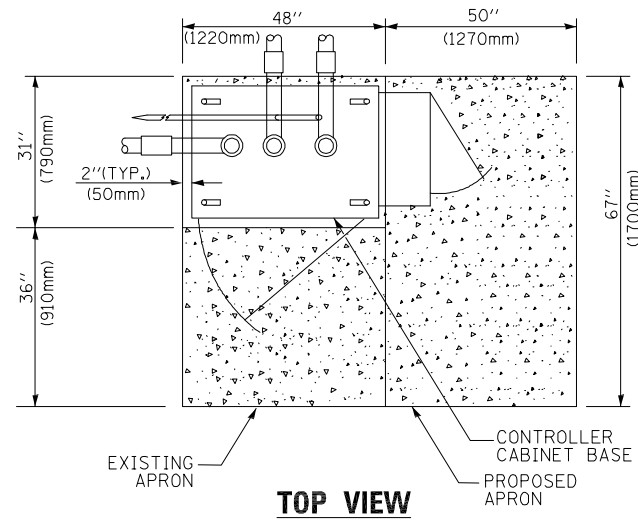
TS SHT NO. 4

FILE NAME = 15323-DTLS-TS05 - P04	USER NAME = pascencia	DESIGNED —	REVISED —
		CHECKED —	REVISED —
	PLOT SCALE = 100.0000' / 1in.	DRAWN —	REVISED —
	PLOT DATE = 5/17/2016	CHECKED —	REVISED —

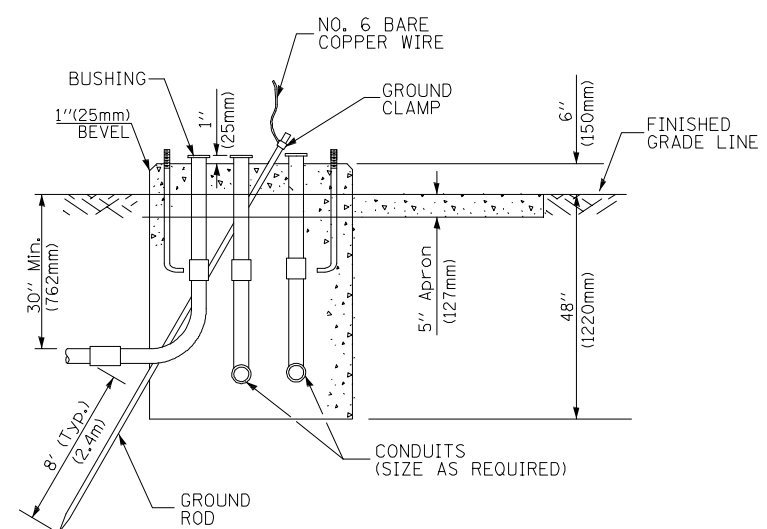
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 34 OF 87 SHEETS	STA. TO STA.	

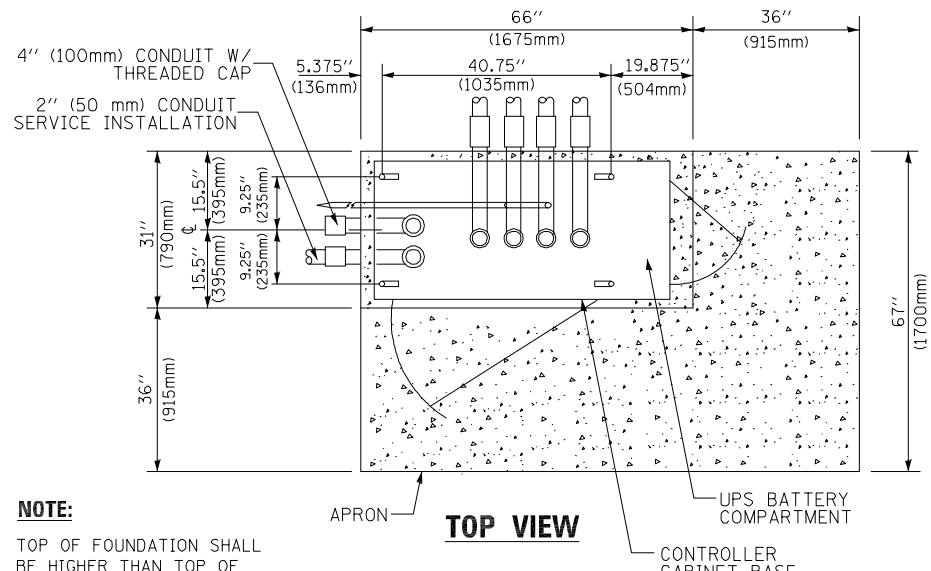
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	34
TS-05		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		



TOP VIEW

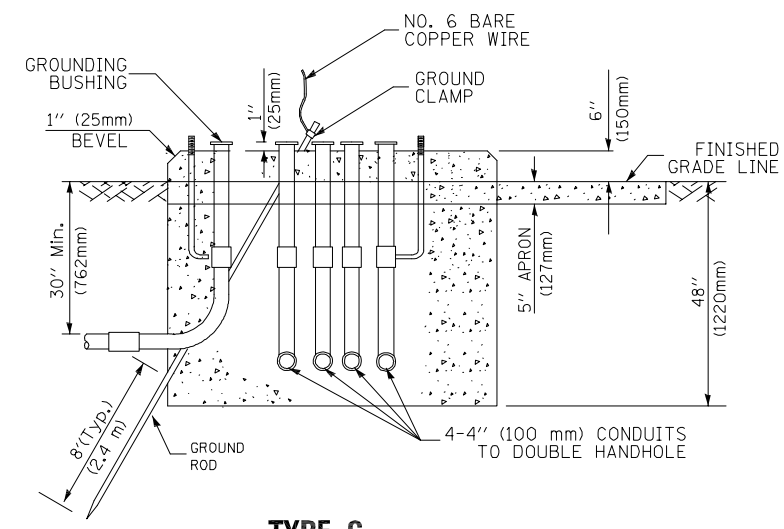


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

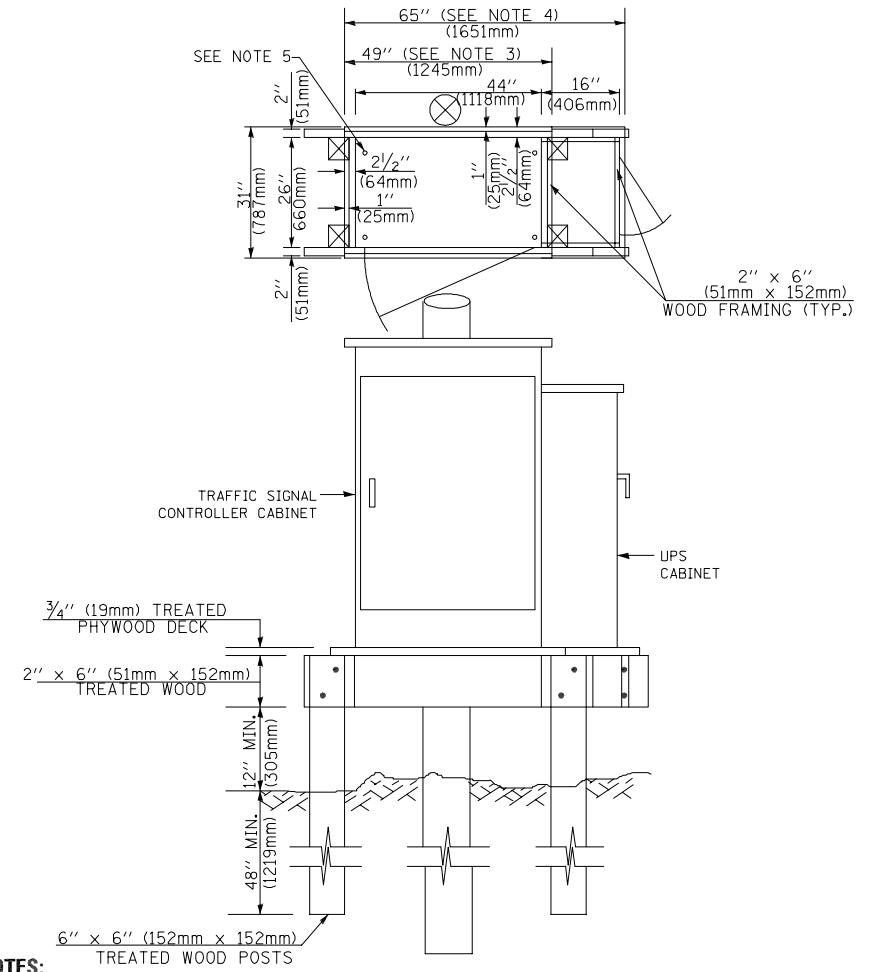


TOP VIEW

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**



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

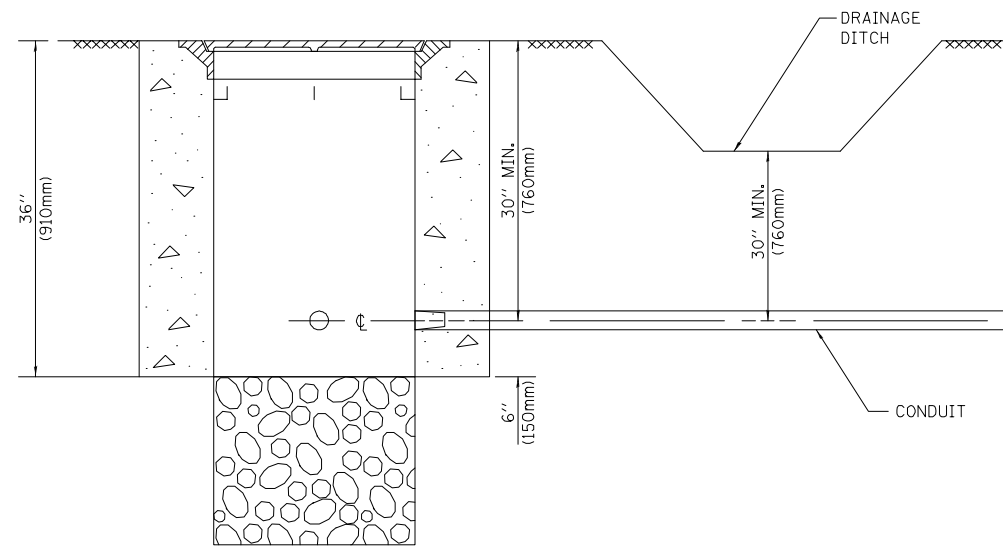
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or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

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

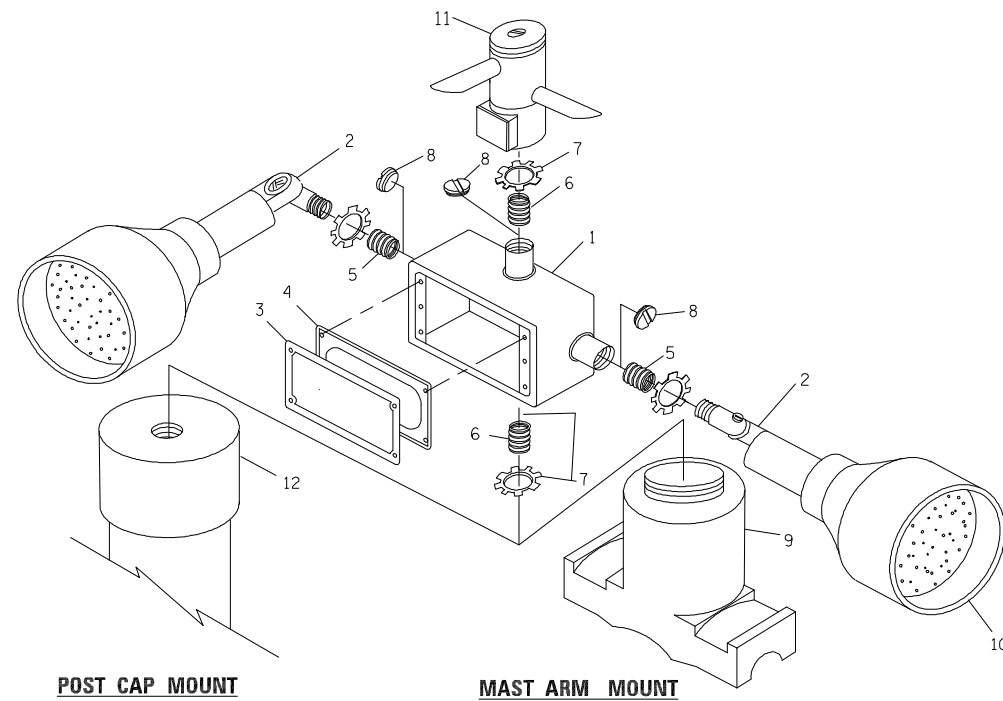
TS SHT NO. 5



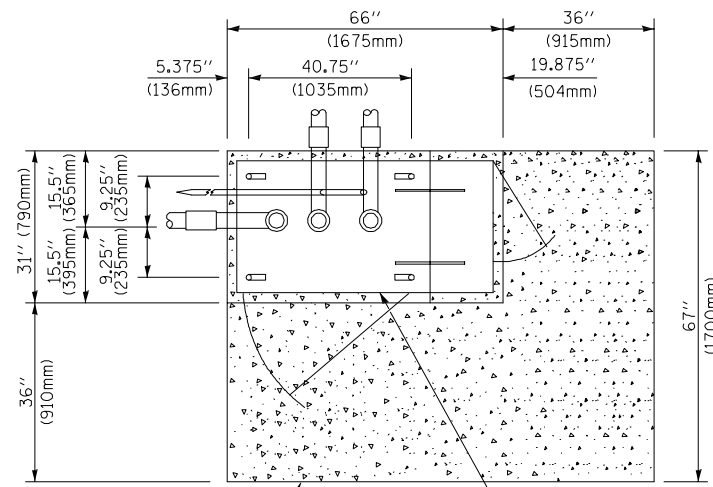
NOTES:

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

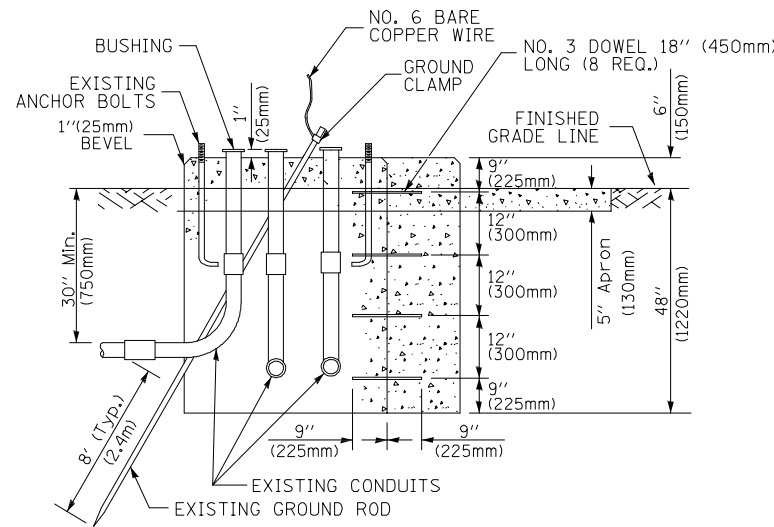
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

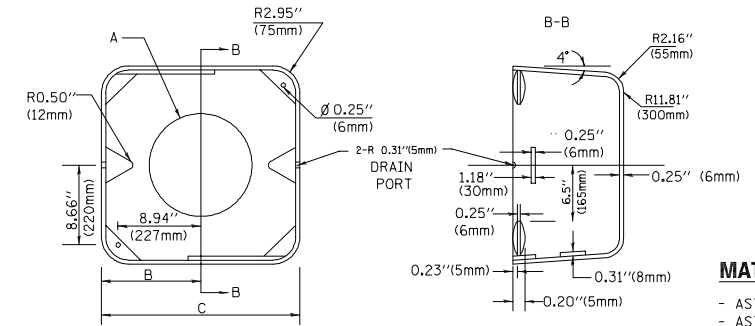


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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



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

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

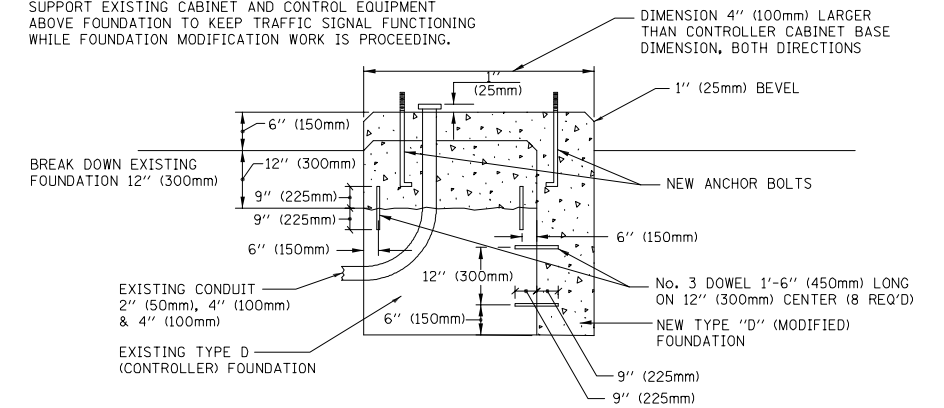
SHROUD

NOTES:

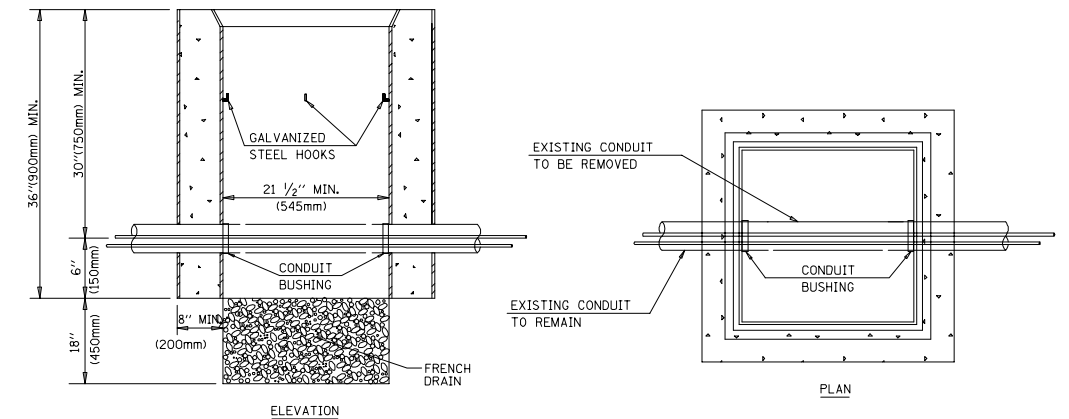
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

FILE NAME = 15323-DTLS-TS05 - P06

USER NAME	DESIGNED	REVISIONS
plascencia	—	—
	CHECKED —	REVISIONS —
	DRAWN —	REVISIONS —
	CHECKED —	REVISIONS —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

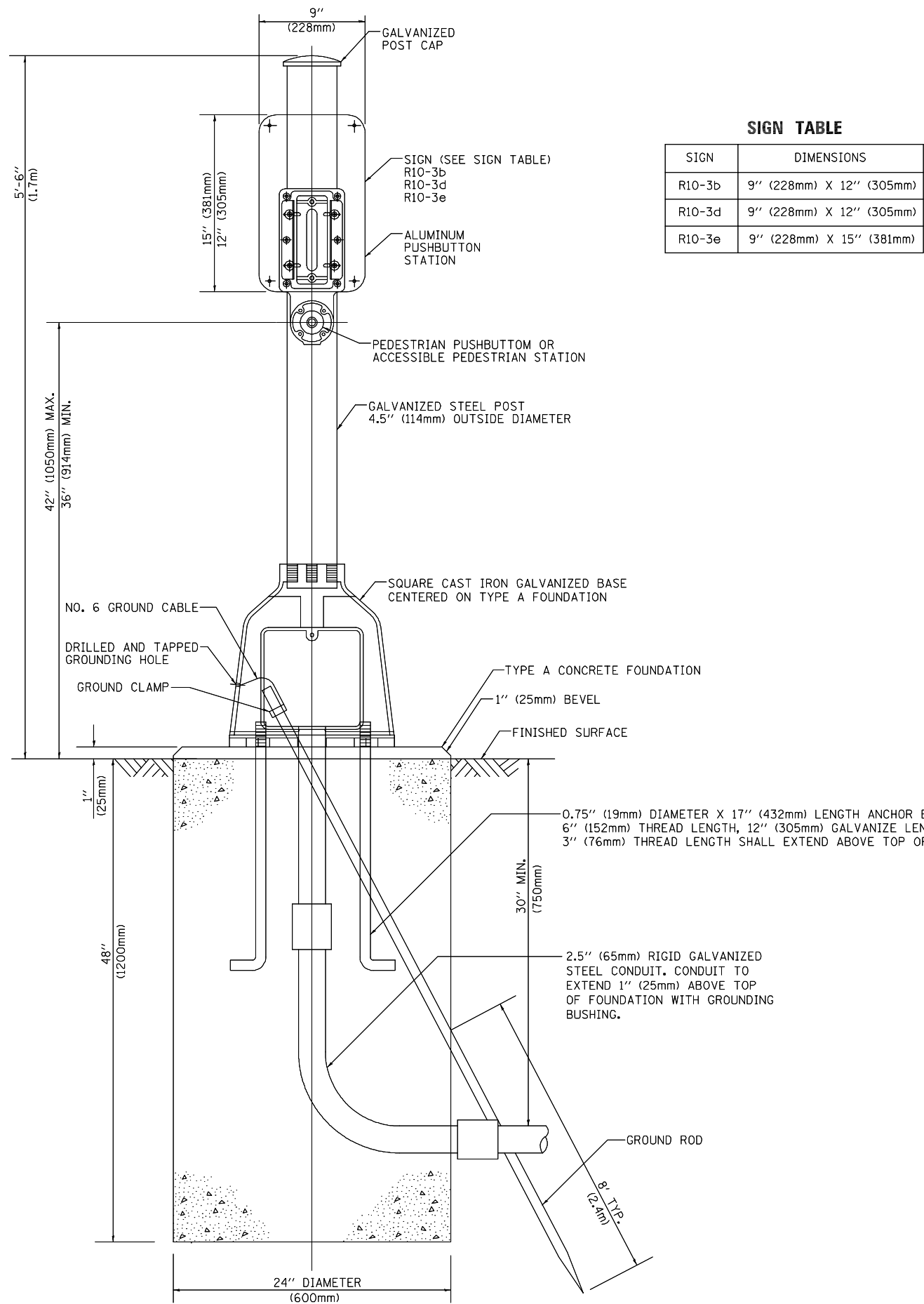
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

SHEET NO. 36 OF 87 SHEETS STA. TO STA.

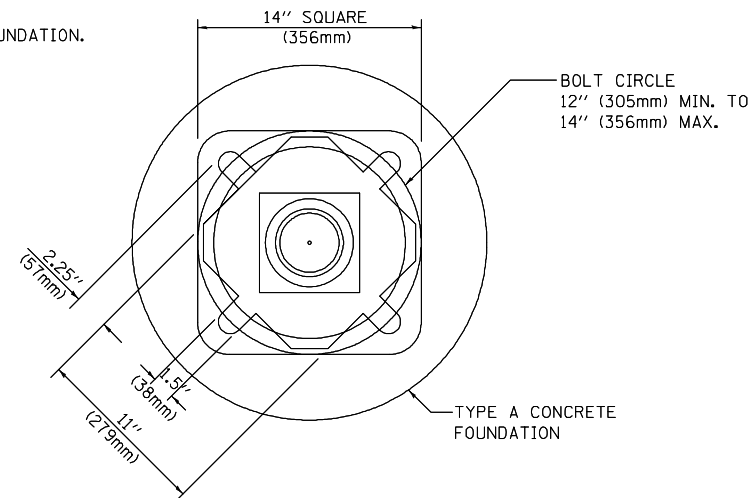
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	36
TS-05		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		

TS SHT NO. 7



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 = 15323-DTLS-TS05 - P07

USER NAME = plascencia	DESIGNED --	REVISED --
	CHECKED --	REVISED --
PLOT SCALE = 100.0000' / 1"	DRAWN --	REVISED --
PLOT DATE = 5/17/2016	CHECKED --	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 37 OF 87 SHEETS STA. TO STA.

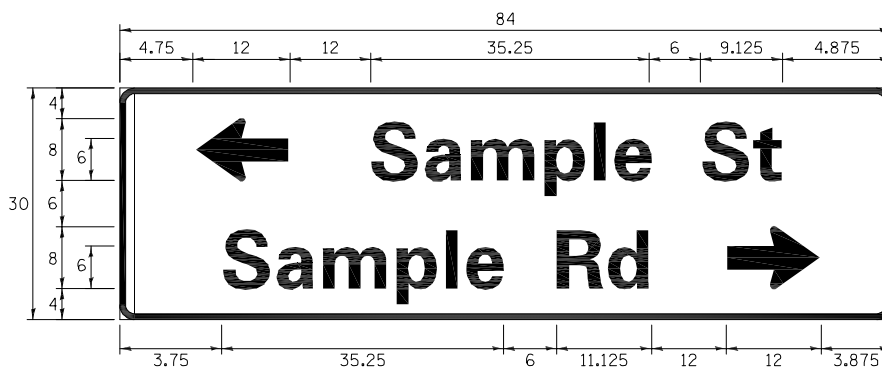
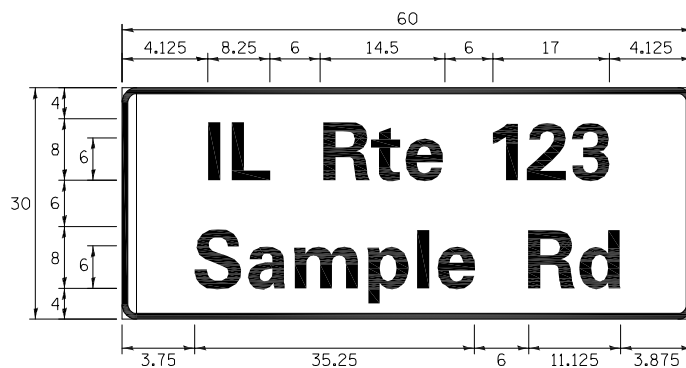
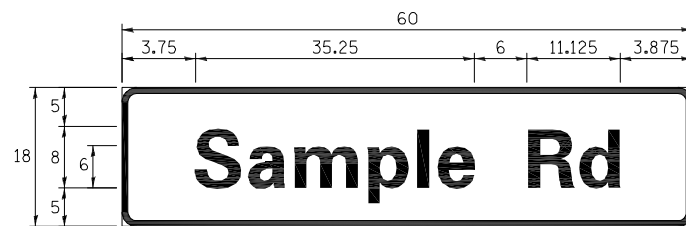
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	37
TS-05		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		

SIGN PANEL – TYPE 1 OR TYPE 2

GENERAL NOTES

STANDARD ALPHABETS SPACING CHART

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



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

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

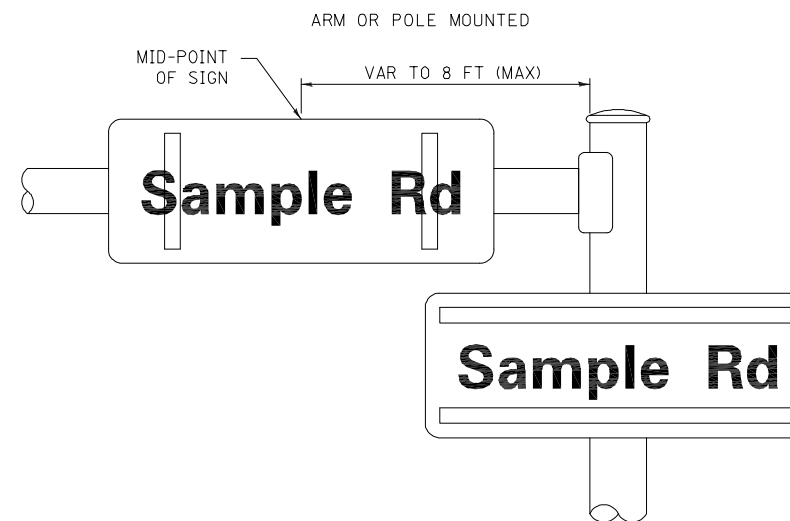
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

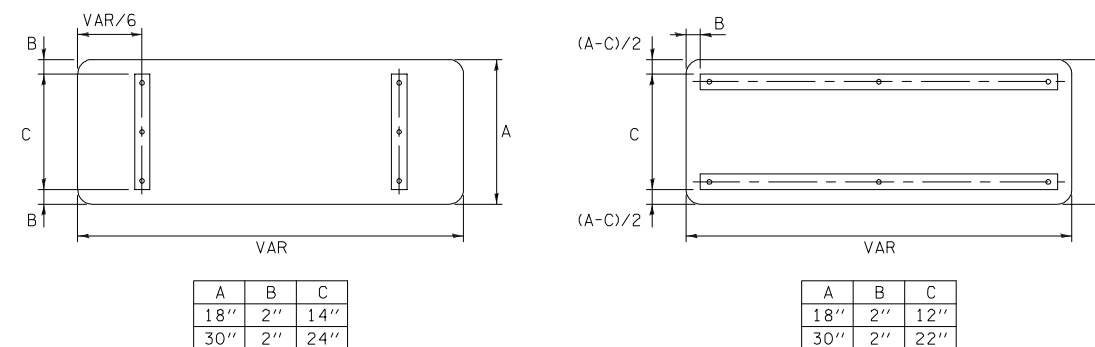
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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



FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	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

TS SHT NO. 8

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 PRICE.

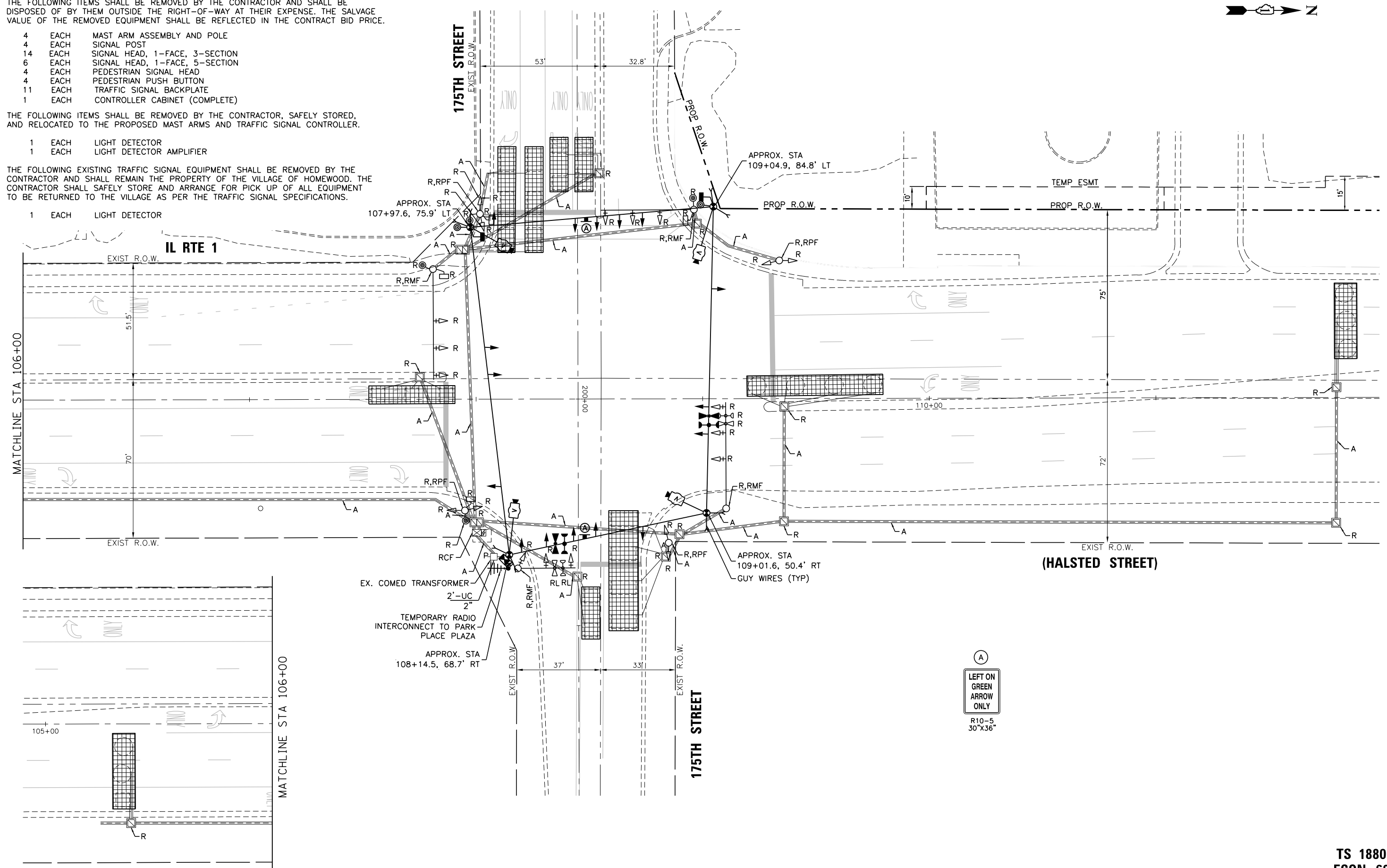
- 4 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL POST
- 14 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 6 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH BUTTON
- 11 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH CONTROLLER CABINET (COMPLETE)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER.

- 1 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

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

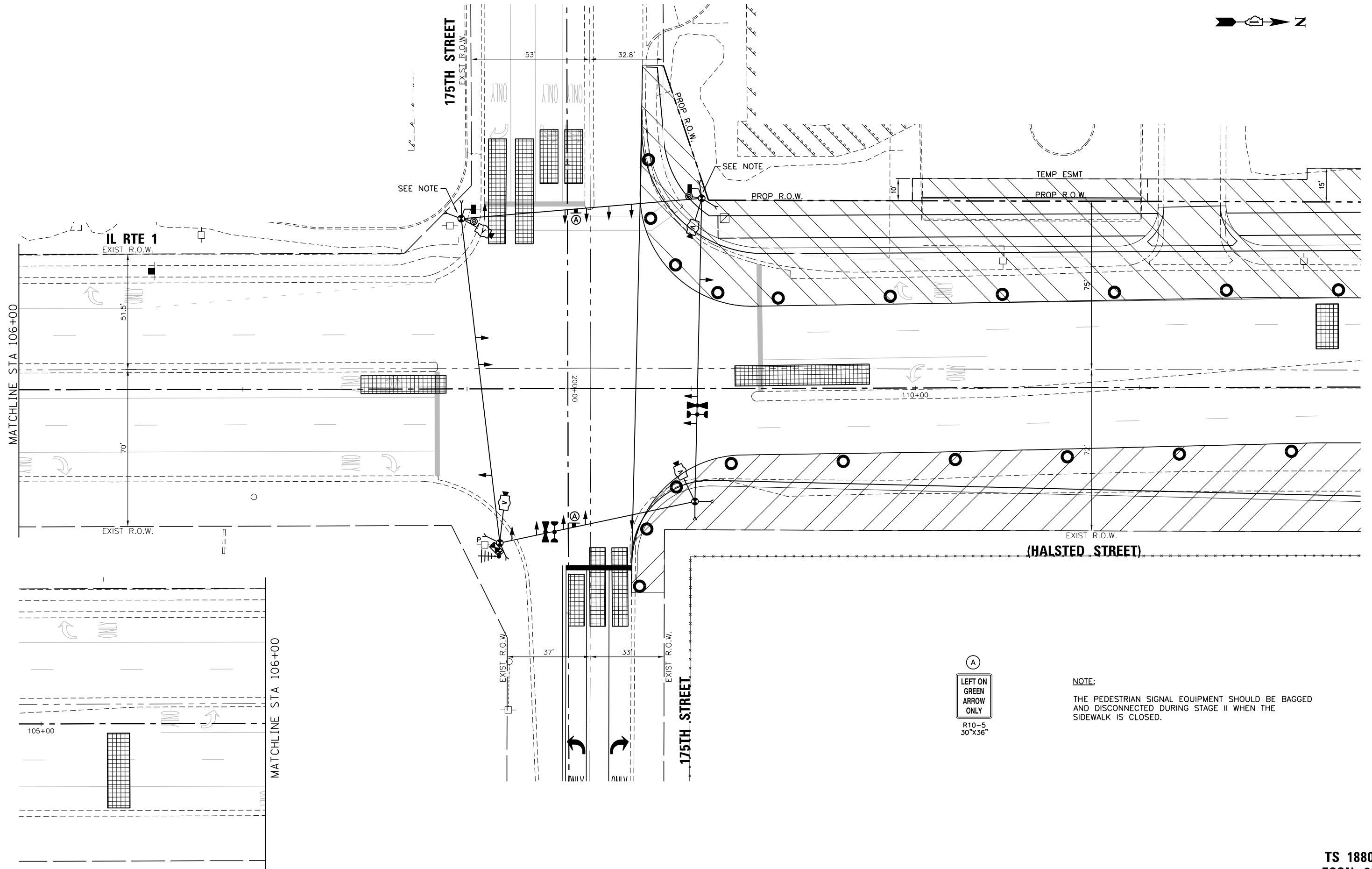
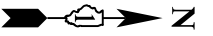
- 1 EACH LIGHT DETECTOR



TS SHT NO. 9

**TS 1880
ECON 60**

FILE NAME = 15323-SGNL-01.dgn \$FILEL\$ Default	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION /REMOVAL - PRE-CONSTRUCTION & STAGE I IL ROUTE 1 (HALSTED STREET) AT 175TH STREET			F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=20'	DRAWN - WPD	REVISED -					0876	12-00023-00-WR	COOK	87	39
	PLOT DATE = 06-08-17	CHECKED - ACAD	REVISED -					CONTRACT NO. 61D42			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)	



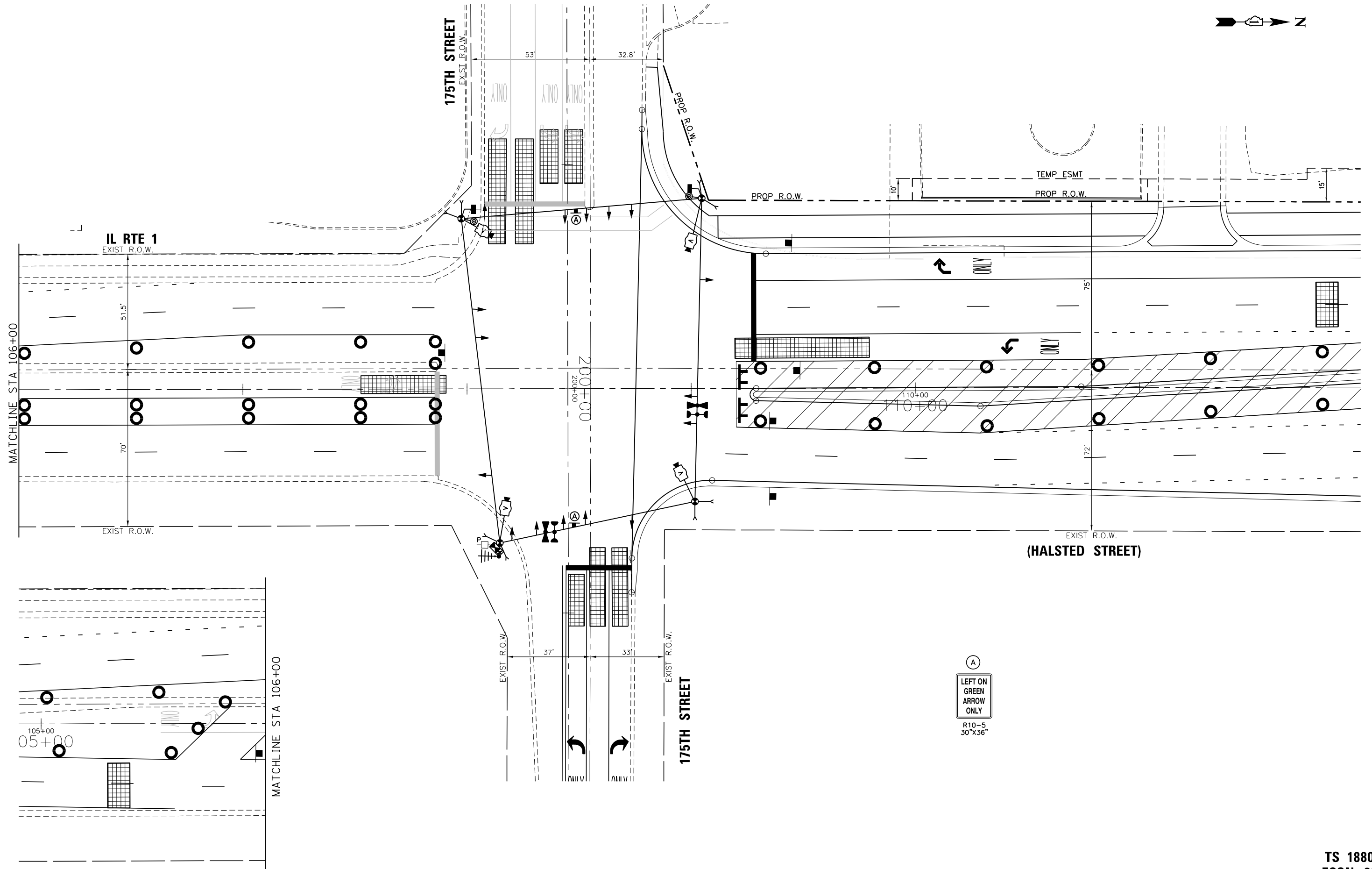
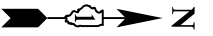
(A)
 LEFT ON
 GREEN
 ARROW
 ONLY
 R10-5
 30"x36"

NOTE:
 THE PEDESTRIAN SIGNAL EQUIPMENT SHOULD BE BAGGED
 AND DISCONNECTED DURING STAGE II WHEN THE
 SIDEWALK IS CLOSED.

TS SHT NO. 10

TS 1880
ECON 60

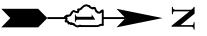
FILE NAME = 15323-SGNL-06.dgn \$FILEL\$ Default	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE II IL ROUTE 1 (HALSTED STREET) AT 175TH STREET	F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
	PLOT SCALE = 1"=20'	CHECKED - ACAD	REVISED -			0876	12-00023-00-WR	COOK	87	40
	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -			SCALE: 1"=20' SHEET 40 OF 87 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)		CONTRACT NO. 61D42



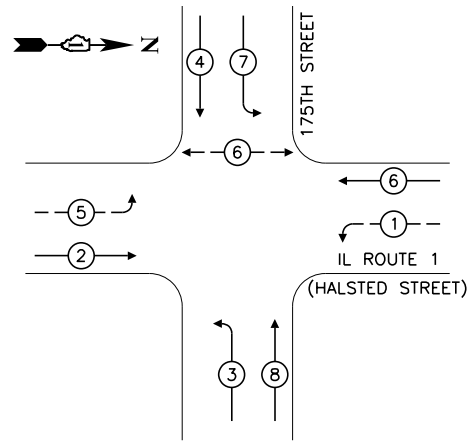
TS SHT NO. 11

TS 1880
ECON 60

FILE NAME = 15323-SGNL-07.dgn \$FILEL\$ Default	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE III IL ROUTE 1 (HALSTED STREET) AT 175TH STREET	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=20'	CHECKED - ACAD	REVISED -			0876	12-00023-00-WR	COOK	87	41
	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -	SCALE: 1"=20'	SHEET 41 OF 87 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		M-4003(039)	



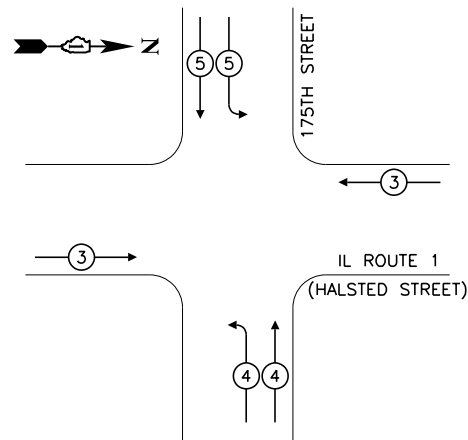
PROPOSED CONTROLLER SEQUENCE



LEGEND

- ← (●) → PROTECTED PHASE
- ← (○) → PROTECTED/PERMITTED PHASE
- ← (○) → PEDESTRIAN PHASE
- ← (◇) OL → OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

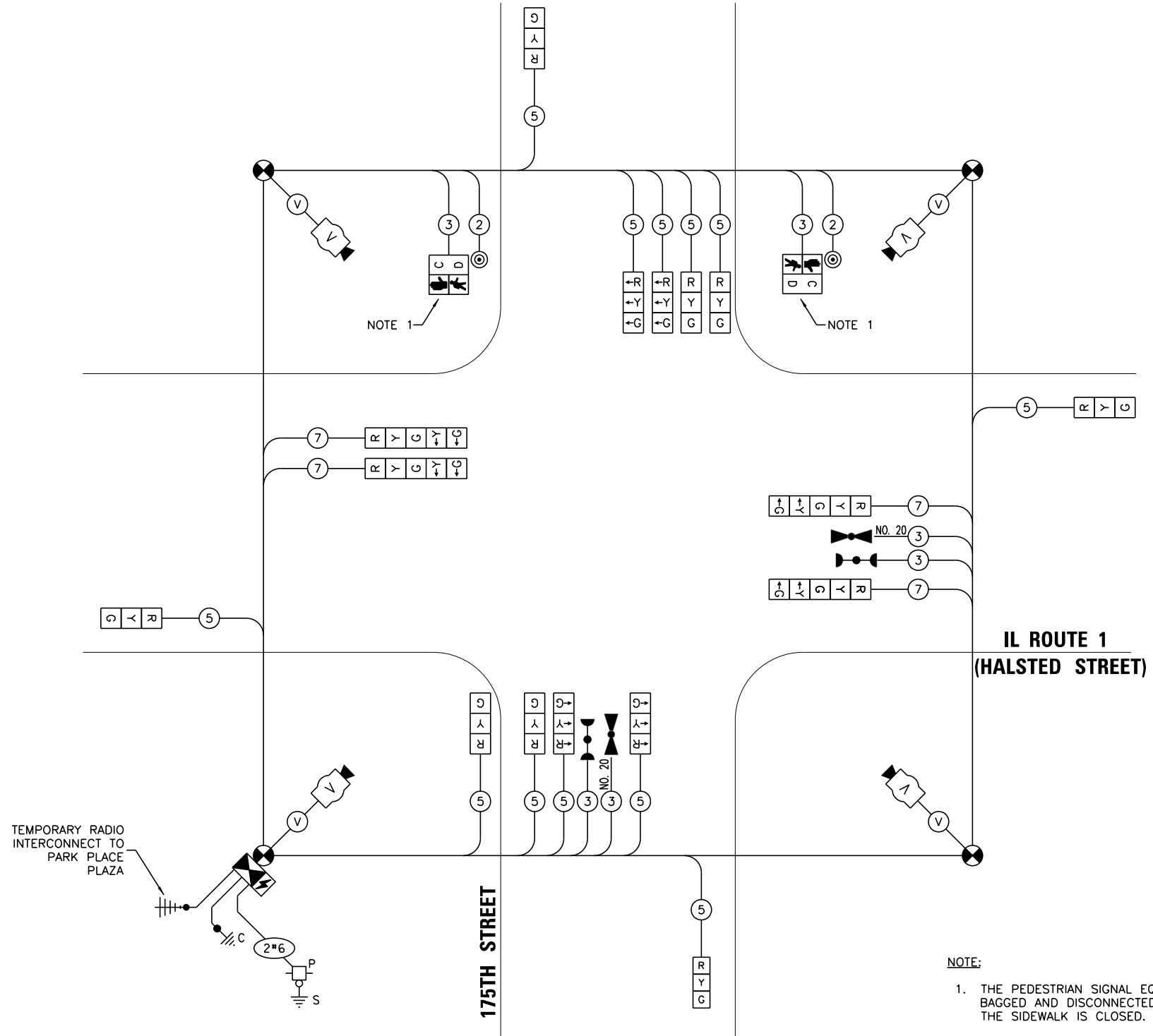


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				363.4

ENERGY COSTS TO:
 VILLAGE OF HOMEWOOD
 2020 CHESTNUT RD
 HOMEWOOD, IL 60430

ENERGY SUPPLY: CONTACT: LASHAWN LAO
 PHONE: (708) 235-2346
 COMPANY: COMED
 ACCOUNT NUMBER 02371-62113



CABLE PLAN

(NOT TO SCALE)

NOTE:

1. THE PEDESTRIAN SIGNAL EQUIPMENT SHOULD BE BAGGED AND DISCONNECTED DURING STAGE II WHEN THE SIDEWALK IS CLOSED.

TS SHT NO. 12

FILE NAME = 15323-SGNL_CBLE-01.dgn	USER NAME =	DESIGNED - SDK	REVISED -
*FILEL\$		DRAWN - WPD	REVISED -
	PLOT SCALE = NONE	CHECKED - ACAD	REVISED -
Default	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -

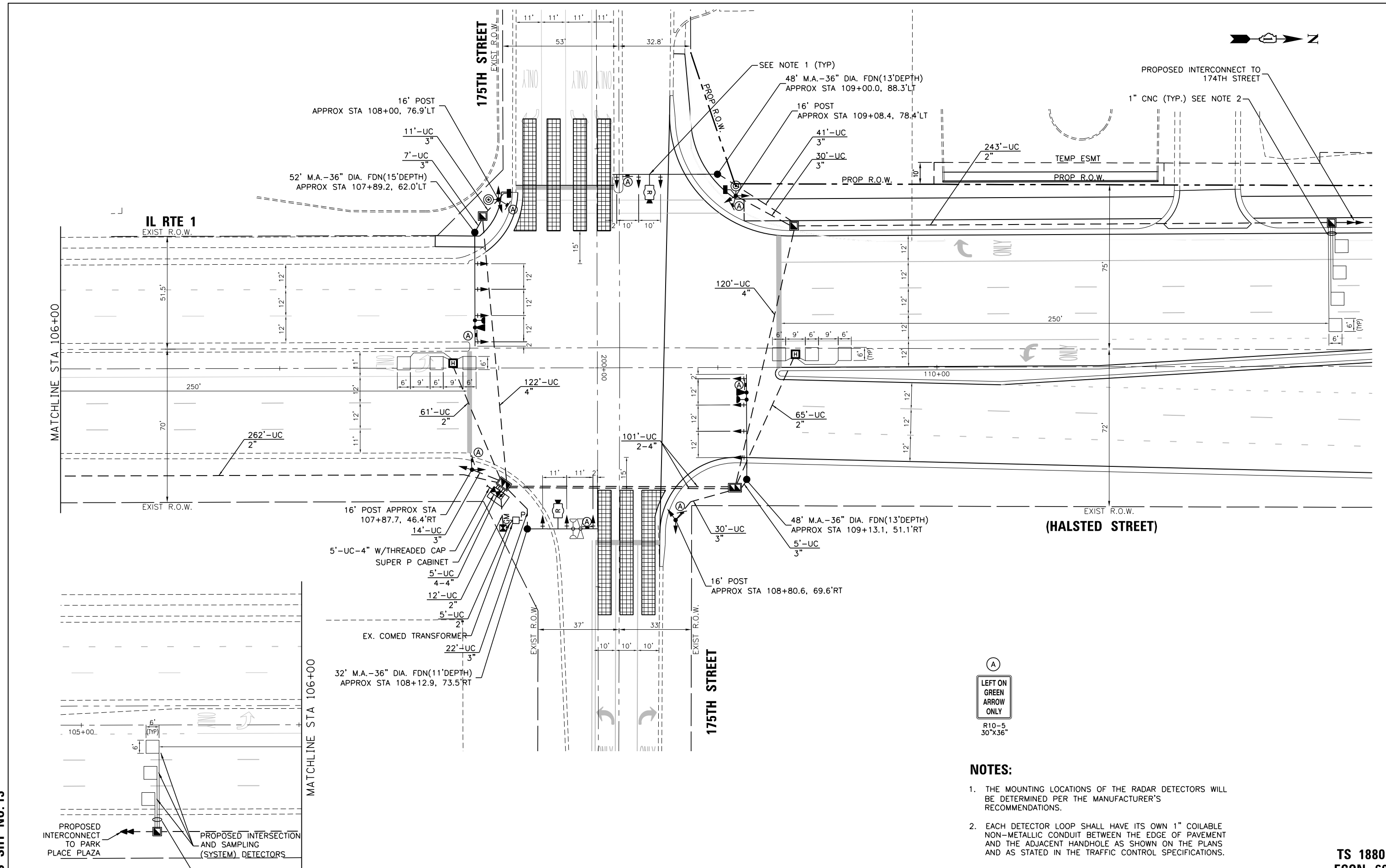
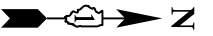
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL CABLE PLAN - ALL STAGES
 PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 1 (HALSTED STREET) AT 175TH STREET**

SCALE: NONE SHEET 42 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	42
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

**TS 1880
 ECON 60**



NOTES:

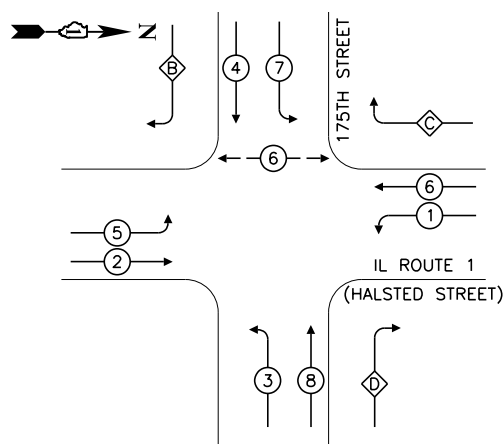
1. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC CONTROL SPECIFICATIONS.

TS SHT NO. 13

FILE NAME = 15323-SGNL-03.dgn *FILEL\$	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 1 (HALSTED STREET) AT 175TH STREET		F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=20'	CHECKED - ACAD	REVISED -				0876	12-00023-00-WR	COOK	87	43
Default	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -	SCALE: 1"=20' SHEET 43 OF 87 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 61D42		M-4003(039)	

**TS 1880
ECON 60**

PROPOSED CONTROLLER SEQUENCE



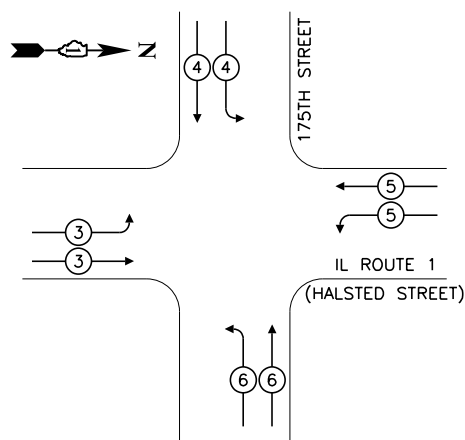
LEGEND

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	121.0
(YELLOW)	22	20	5	22.0
(GREEN)	22	12	45	118.8
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				438.8

ENERGY COSTS TO:
 VILLAGE OF HOMEWOOD
 2020 CHESTNUT RD
 HOMEWOOD, IL 60430
 ENERGY SUPPLY: CONTACT: LASHAWN LAO
 PHONE: (708) 235-2346
 COMPANY: COMED
 ACCOUNT NUMBER 02371-62113

PROPOSED INTERSECTION AND (SAMPLING) SYSTEM DETECTORS

PROPOSED INTERCONNECT TO PARK PLACE PLAZA

TRACER CABLE

TRACER CABLE

TRACER CABLE

TRACER CABLE

TRACER CABLE

TRACER CABLE

TRACER CABLE

TRACER CABLE

TRACER CABLE

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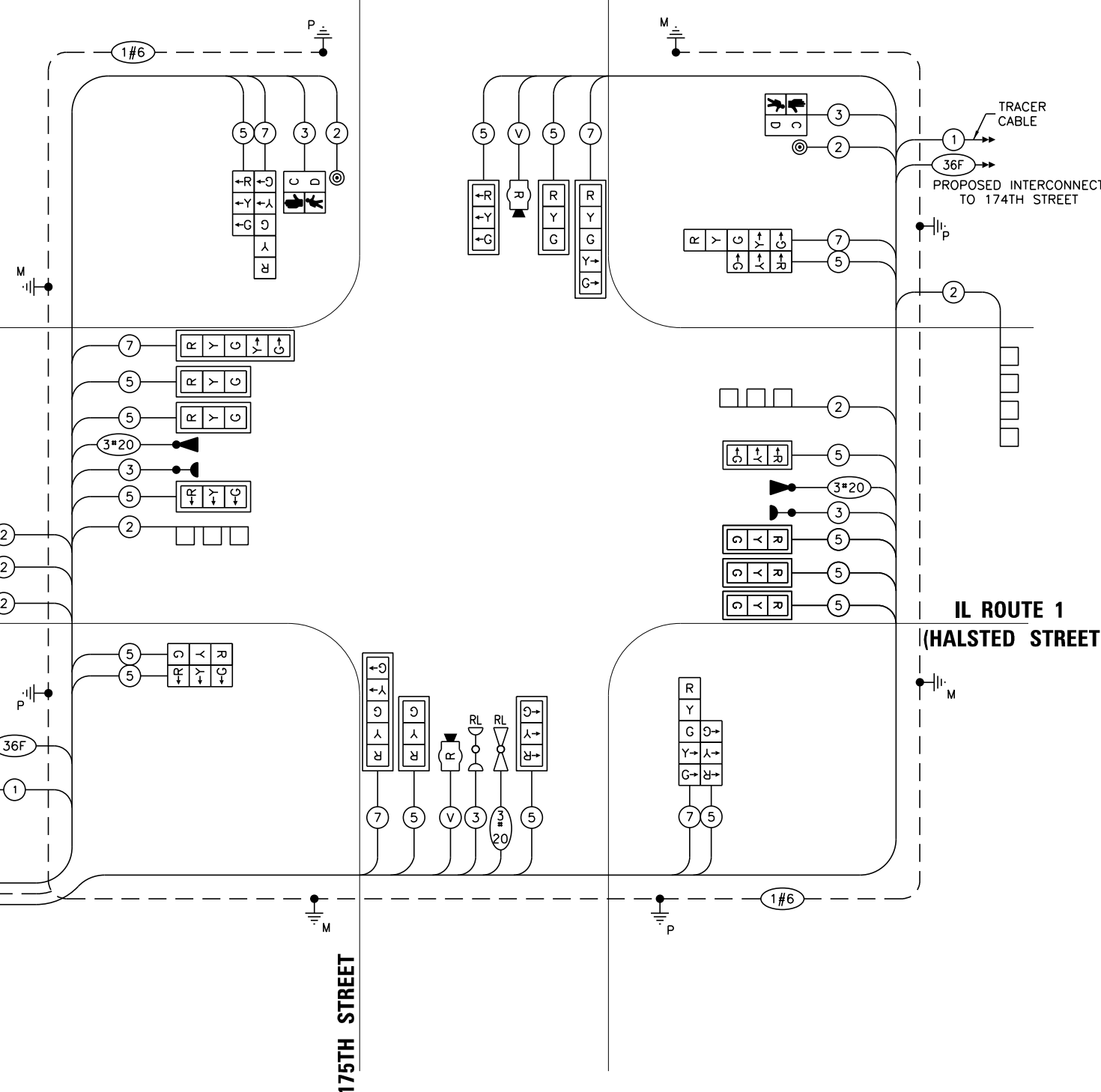
TRACER CABLE

TRACER CABLE

TRACER CABLE

TRACER CABLE

TRACER CABLE



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 14

**TS 1880
ECON 60**

FILE NAME = 15323-SGNL_CBLE-01.dgn	USER NAME =	DESIGNED - SDK	REVISED -
*FILEL\$		DRAWN - WPD	REVISED -
Default	PLOT SCALE = NONE	CHECKED - ACAD	REVISED -
	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -

DESIGNED - SDK	REVISED -
DRAWN - WPD	REVISED -
CHECKED - ACAD	REVISED -
DATE - ACAD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

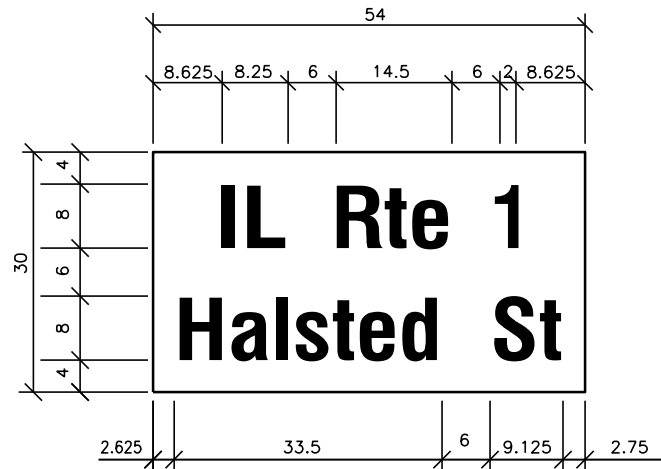
**PROPOSED CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 1 (HALSTED STREET) AT 175TH STREET**

F.A.P. RTE. 0876	SECTION 12-00023-00-WR	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 44
CONTRACT NO. 61D42			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)	

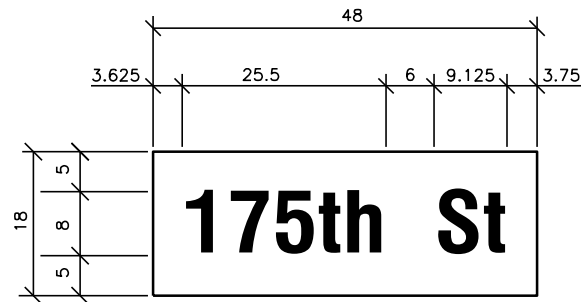
SCALE: NONE SHEET 44 OF 87 SHEETS STA. TO STA.

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	11.25	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.00	1	ZZ	2

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

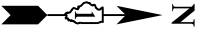
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL – TYPE 1	SQ FT	72
SIGN PANEL – TYPE 2	SQ FT	23
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	648
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	160
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	469
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	490
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1030
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3190
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1322
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1700
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	70
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	700
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, 48 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
INDUCTIVE LOOP DETECTOR	EACH	6
LIGHT DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	500
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	540
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2

TS SHT NO. 15

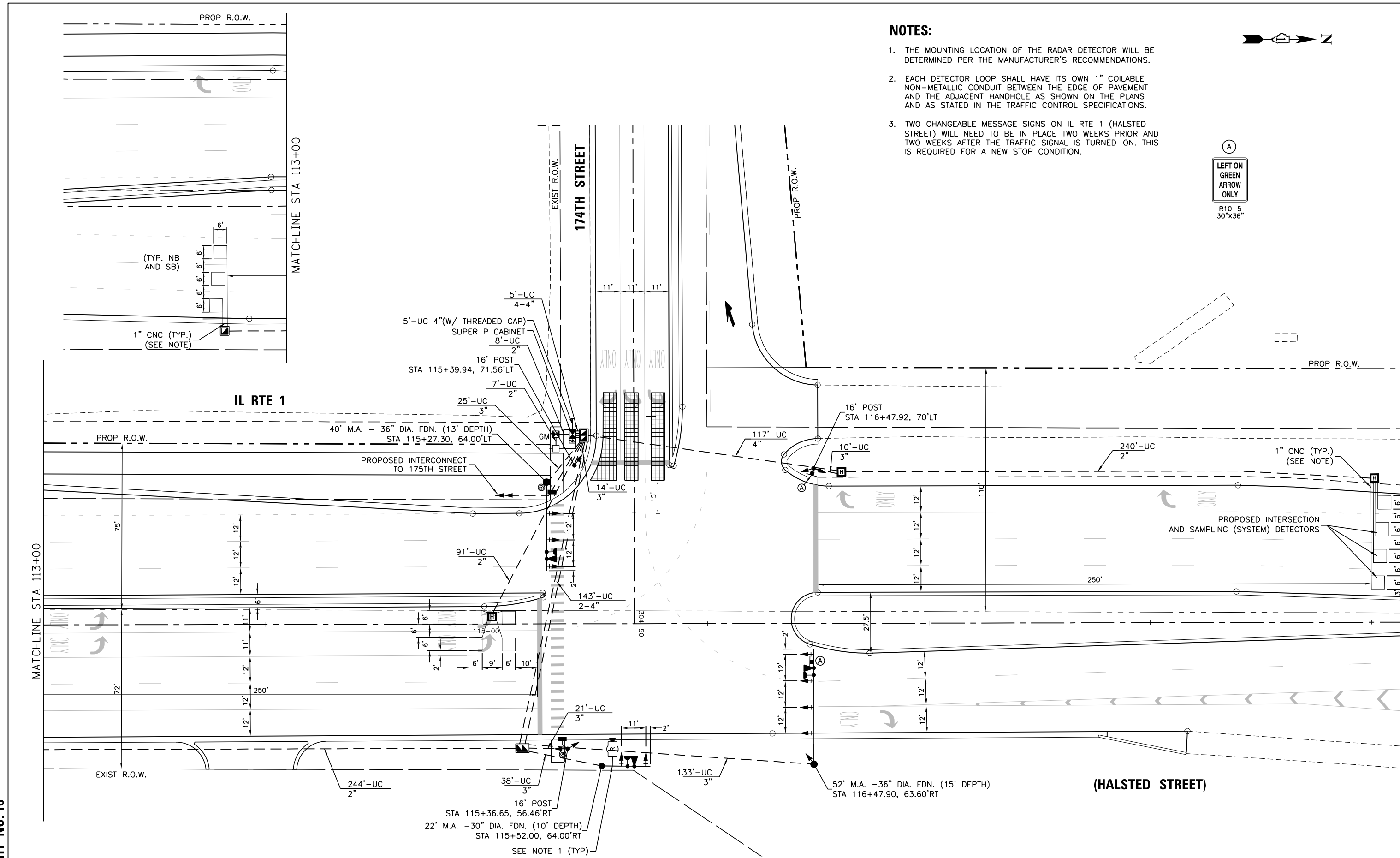
TS 1880
ECON 60

FILE NAME = 15323-SGNL_DTLS-01.dgn	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL ROUTE 1 (HALSTED STREET) AT 175TH STREET	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN - WPD	REVISED -			0876	12-00023-00-WR	COOK	87	45	
Default		CHECKED - ACAD	REVISED -			SCALE: NONE SHEET 45 OF 87 SHEETS STA. TO STA.		CONTRACT NO. 61D42			
		DATE - ACAD	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)					



NOTES:

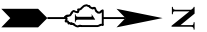
1. THE MOUNTING LOCATION OF THE RADAR DETECTOR WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC CONTROL SPECIFICATIONS.
3. TWO CHANGEABLE MESSAGE SIGNS ON IL RTE 1 (HALSTED STREET) WILL NEED TO BE IN PLACE TWO WEEKS PRIOR AND TWO WEEKS AFTER THE TRAFFIC SIGNAL IS TURNED-ON. THIS IS REQUIRED FOR A NEW STOP CONDITION.



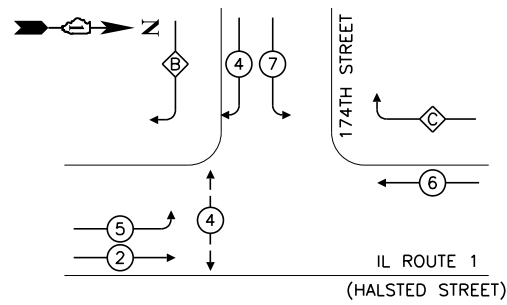
TS SHT NO. 16

TS 1827
ECON 60

FILE NAME = 15323-SGNL-02.dgn \$FILEL\$	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN IL ROUTE 1 (HALSTED STREET) AT 174TH STREET		F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
	PLOT SCALE = NONE	CHECKED - ACAD	REVISED -		0876	12-00023-00-WR	COOK	87	46		
Default	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -	SCALE: NONE	SHEET 46 OF 87 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 61D42 M-4003(039)		



PROPOSED CONTROLLER SEQUENCE



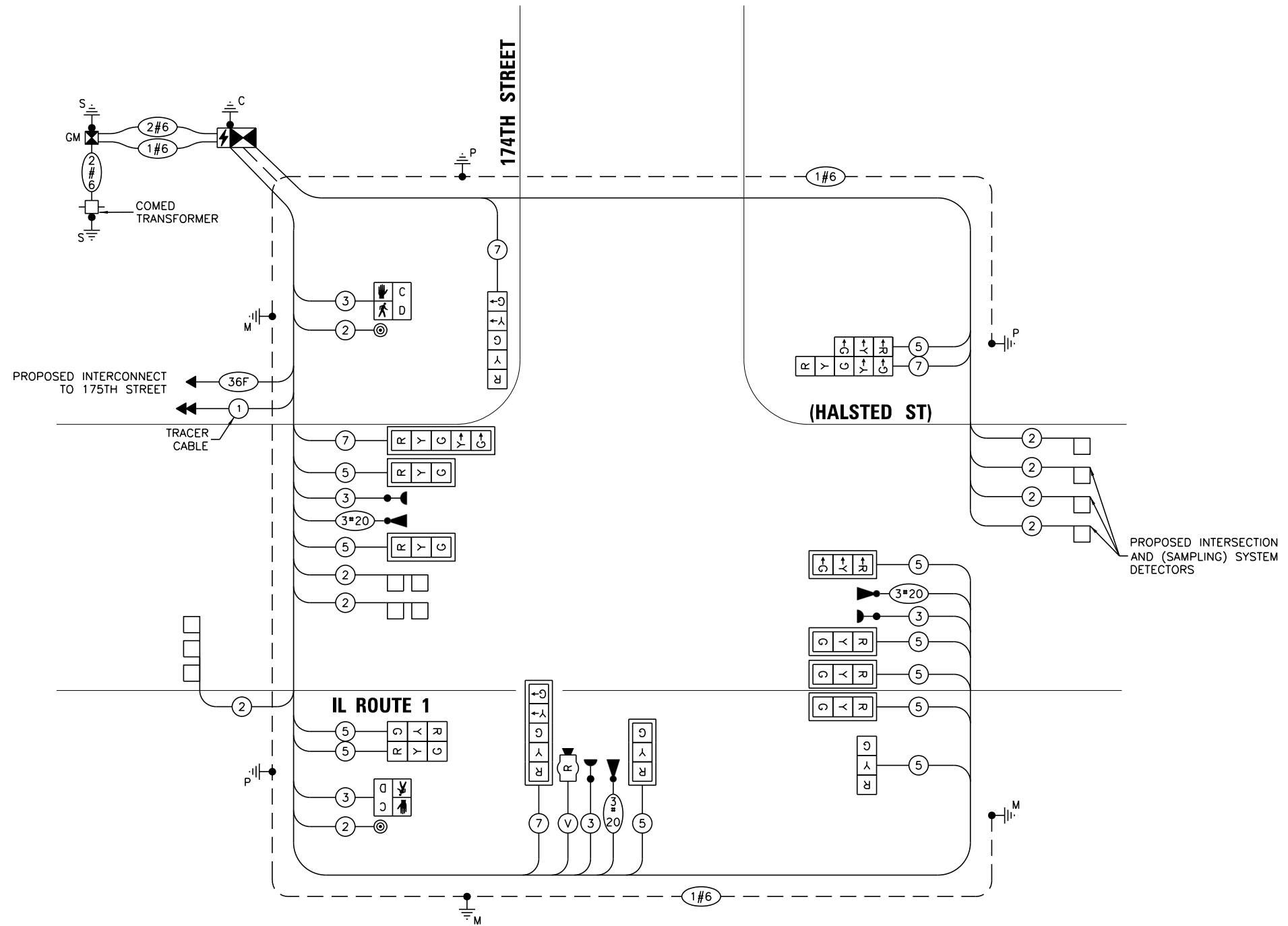
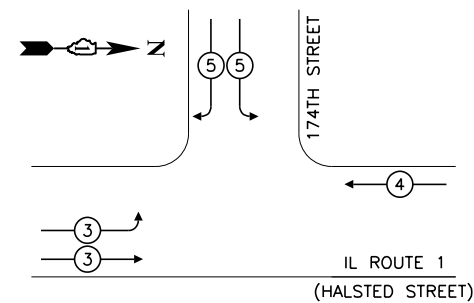
LEGEND

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ OL — OVERLAP

**RIGHT TURN OVERLAP
PHASE DESIGNATION**

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

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



CABLE PLAN
(NOT TO SCALE)

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				351.5

ENERGY COSTS TO:
VILLAGE OF EAST HAZEL CREST
1904 W. 174TH ST
EAST HAZEL CREST, IL 60429
ENERGY SUPPLY: CONTACT: LASHAWN LAO
PHONE: (708) 235-2346
COMPANY: COMED
ACCOUNT NUMBER 26010-59001

TS SHT NO. 17

FILE NAME = 15323-SGNL_CBLE-01.dgn	USER NAME =	DESIGNED - SDK	REVISED -
*FILEL\$		DRAWN - WPD	REVISED -
DeFoult	PLOT SCALE = NONE	CHECKED - ACAD	REVISED -
	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -

DESIGNED - SDK	REVISED -
DRAWN - WPD	REVISED -
CHECKED - ACAD	REVISED -
DATE - ACAD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 1 (HALSTED STREET) AT 174TH STREET**

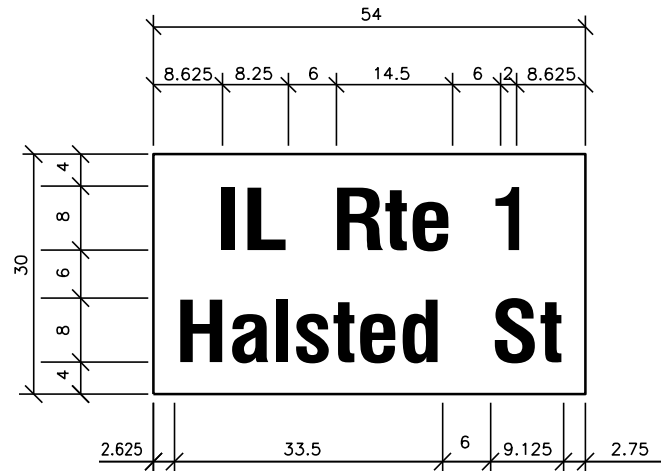
SCALE: NONE SHEET 47 OF 87 SHEETS STA. TO STA.

F.A.P. RTE. 0876	SECTION 12-00023-00-WR	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 47
CONTRACT NO. 61D42			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40030391	

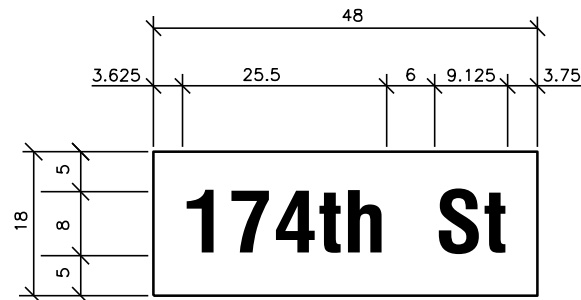
**TS 1827
ECON 60**

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	11.25	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.00	1	ZZ	2

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

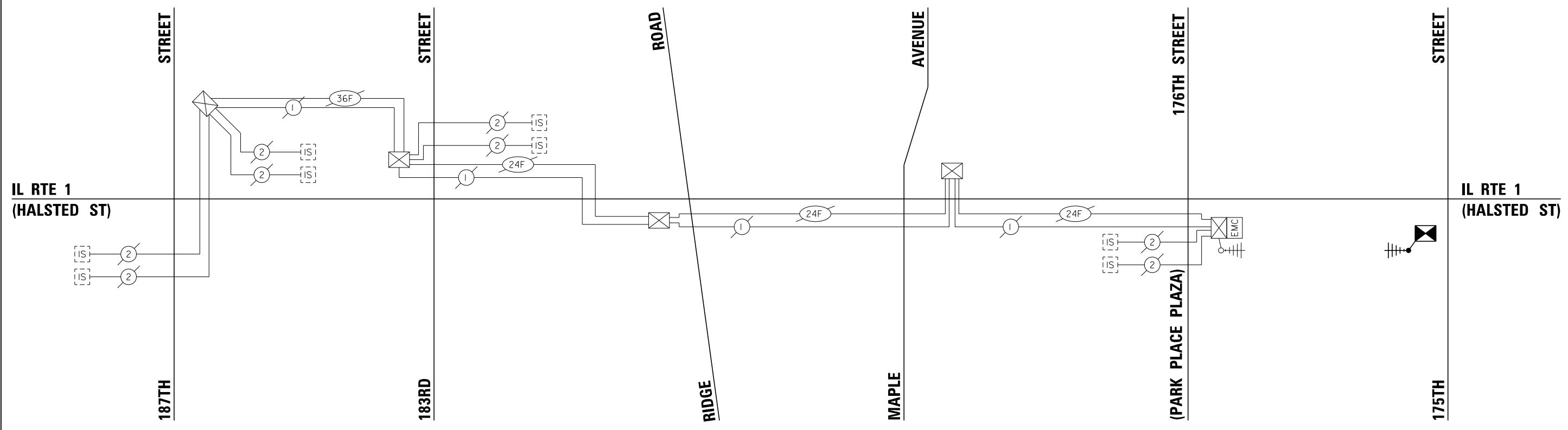
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL – TYPE 1	SQ FT	27
SIGN PANEL – TYPE 2	SQ FT	12
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	590
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	241
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	428
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	300
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1050
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2900
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	580
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2240
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	75
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	700
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	435
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	760
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	1

TS SHT NO. 18

TS 1827
ECON 60

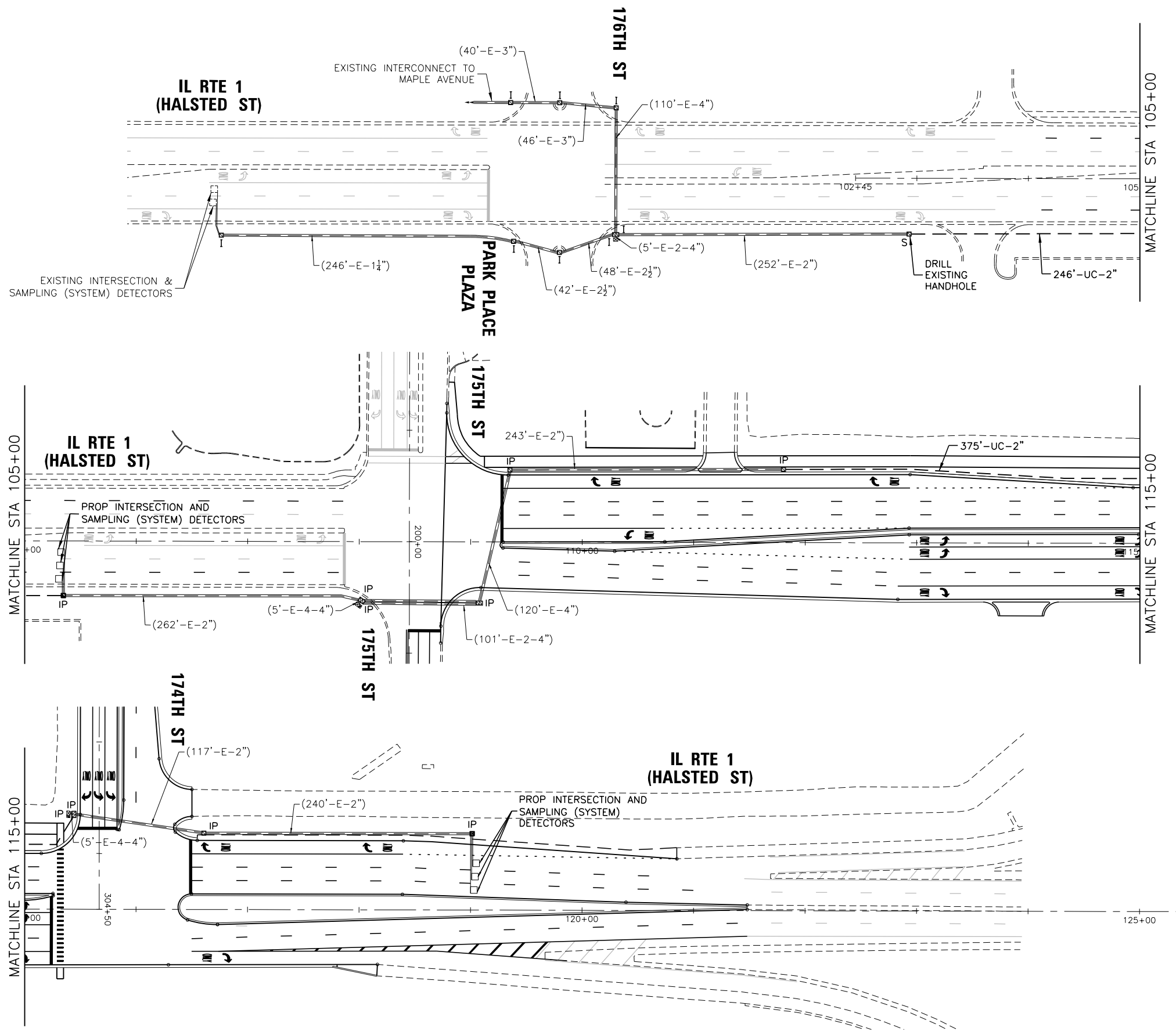
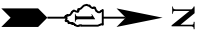
FILE NAME = 15323-SGNL_DTLS-01.dgn	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL ROUTE 1 (HALSTED STREET) AT 174TH STREET	F.A.P. RTE. = 0876	SECTION = 12-00023-00-WR	COUNTY = COOK	TOTAL SHEETS = 87	SHEET NO. = 48	
FILEL		DRAWN - WPD	REVISED -			SCALE: NONE	SHEET 48 OF 87 SHEETS	STA. TO STA.	CONTRACT NO. 61D42		
Default		CHECKED - ACAD	REVISED -			FED. ROAD DIST. NO. 1			ILLINOIS	FED. AID PROJECT	M-4003(039)
		DATE - ACAD	REVISED -								



TS SHT NO. 19

ECON 60

FILE NAME = 15323-SGNL-05.dgn *FILEL* Default	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT SCHEMATIC IL ROUTE 1 (HALSTED STREET) 176TH STREET TO 175TH STREET		F.A.P. RTE. = 0876	SECTION = 12-00023-00-WR	COUNTY = COOK	TOTAL SHEETS = 87	SHEET NO. = 49	
	PLOT SCALE = NONE	CHECKED - ACAD	REVISED -				CONTRACT NO. 61D42					
	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)					
				SCALE: NONE	SHEET 49 OF 87 SHEETS	STA. TO STA.						



TS SHT NO. 20

ECON 60

FILE NAME = 15323-SGNL-08.dgn
 \$FILEL\$
 Default

USER NAME =
 PLOT SCALE = 1"=50'
 PLOT DATE = 06-08-17

DESIGNED - SDK
 DRAWN - WPD
 CHECKED - ACAD
 DATE - ACAD

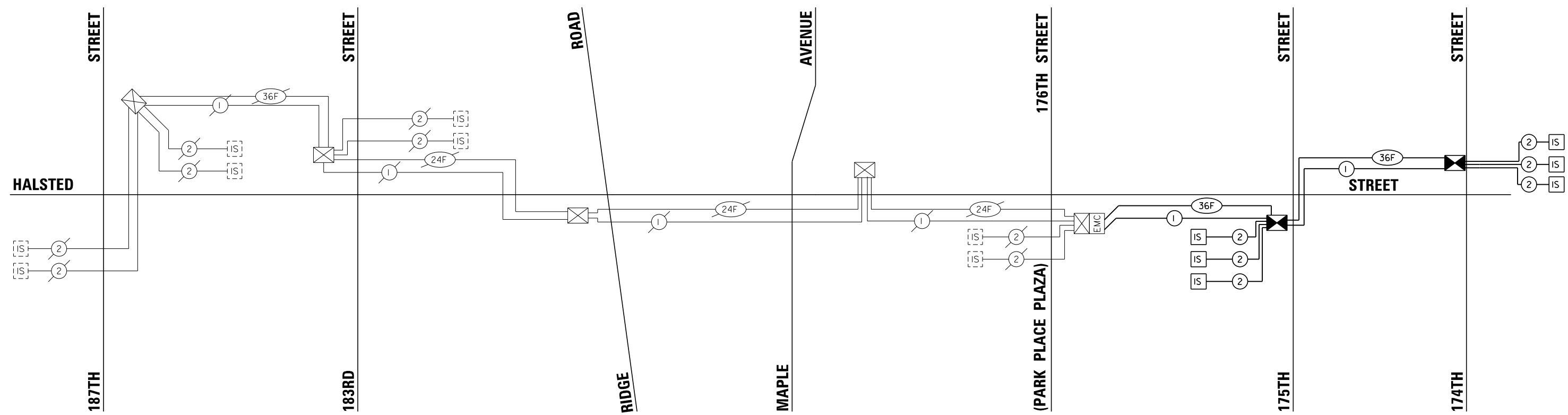
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN
 IL ROUTE 1 (HALSTED STREET)
 PARK PLACE PLAZA TO 174TH STREET**

SCALE: 1"=50'
 SHEET 50 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	50
				CONTRACT NO. 61D42
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				M-4003(039)



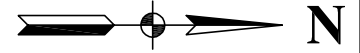
SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	621
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1750
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	252
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1750
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2
* ROD AND CLEAN EXISTING CONDUIT	FOOT	252

* NOTE: THE QUANTITY PROVIDED FOR ROD AND CLEAN EXISTING CONDUIT SHALL BE A NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER.

TS SHT NO. 21

FILE NAME = 15323-SGNL-05.dgn	USER NAME =	DESIGNED - SDK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES IL ROUTE 1 (HALSTED STREET) 187TH STREET TO 174TH STREET	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL#		DRAWN - WPD	REVISED -			0876	12-00023-00-WR	COOK	87	51	
Default	PLOT SCALE = NONE	CHECKED - ACAD	REVISED -			SCALE: NONE		SHEET 51 OF 87 SHEETS		STA. TO STA.	
	PLOT DATE = 06-08-17	DATE - ACAD	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)					

ECON 60



- LEGEND:**
- EXISTING STREET LIGHT
 - PROPOSED STREET LIGHT - HALSTED STREET
HPS, 47.5' MH, 12" MA, WITH 5/8" DIA. X 10' GROUND ROD
400 W HPS TYPE III DISTRIBUTION
 - PROPOSED STREET LIGHT - 174TH STREET
92 W LED, TYPE II DISTRIBUTION
35' MH, 8" MA, WITH 5/8" DIA. X 10' GROUND ROD
 - PROPOSED CONTROLLER
 - COMED POWER POLE FOR SERVICE INSTALLATION
 - UNDERGROUND CONDUIT, RIGID GALVANIZED STEEL (RGSC)
PUSHED, SIZED AS NOTED
 - HALSTED STREET - UNIT DUCT, 3-1/C, NO.4 AWG AND
NO.6 GROUND, 600V IN 1-1/4" POLYETHYLENE DUCT
 - 174TH STREET - UNIT DUCT, 3-1/C, NO.6 AWG AND
NO.8 GROUND, 600V IN 1-1/4" POLYETHYLENE DUCT
 - CAPPED RACEWAY
 - SERVICE WIRE IN 2.5" RIGID GALVANIZED STEEL CONDUIT,
3-1/C, NO. 1/0 AWG, XLP-TYPE USE
 - REMOVAL OF NON-FUNCTIONAL LIGHT UNIT (NO SALVAGE)
 - REMOVAL OF LIGHT UNIT (SALVAGE)
AND REMOVAL OF LIGHT POLE FOUNDATION
 - F/C FACE OF CURB
 - B/ETP BACK OF EDGE OF TRAVELED PAVEMENT

- POLE IDENTIFICATION**
- 174TH STREET**
- CABINET NUMBER
 - CIRCUIT
 - POLE POSITION
- HALSTED STREET**
- CONTROLLER IDENTIFIER
 - CIRCUIT
 - POLE POSITION

THIS SEAL AND SIGNATURE PERTAINS TO SHEETS 53 THROUGH 59

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:

[Signature]

10-20-2016

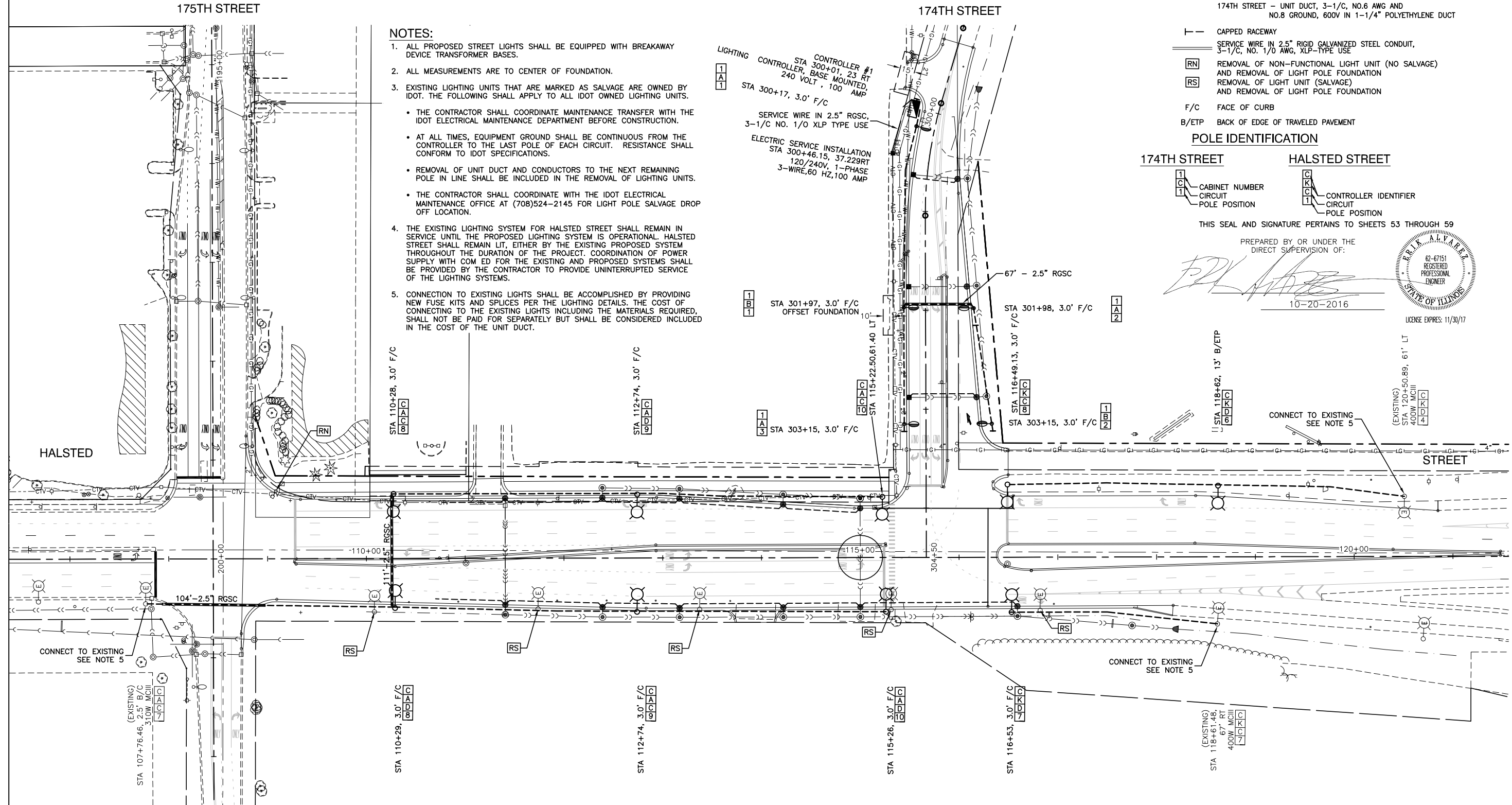
62-67151
REGISTERED
PROFESSIONAL
ENGINEER
STATE OF ILLINOIS
LICENSE EXPIRES: 11/30/17

- NOTES:**
1. ALL PROPOSED STREET LIGHTS SHALL BE EQUIPPED WITH BREAKAWAY DEVICE TRANSFORMER BASES.
 2. ALL MEASUREMENTS ARE TO CENTER OF FOUNDATION.
 3. EXISTING LIGHTING UNITS THAT ARE MARKED AS SALVAGE ARE OWNED BY IDOT. THE FOLLOWING SHALL APPLY TO ALL IDOT OWNED LIGHTING UNITS.
 - THE CONTRACTOR SHALL COORDINATE MAINTENANCE TRANSFER WITH THE IDOT ELECTRICAL MAINTENANCE DEPARTMENT BEFORE CONSTRUCTION.
 - AT ALL TIMES, EQUIPMENT GROUND SHALL BE CONTINUOUS FROM THE CONTROLLER TO THE LAST POLE OF EACH CIRCUIT. RESISTANCE SHALL CONFORM TO IDOT SPECIFICATIONS.
 - REMOVAL OF UNIT DUCT AND CONDUCTORS TO THE NEXT REMAINING POLE IN LINE SHALL BE INCLUDED IN THE REMOVAL OF LIGHTING UNITS.
 - THE CONTRACTOR SHALL COORDINATE WITH THE IDOT ELECTRICAL MAINTENANCE OFFICE AT (708)524-2145 FOR LIGHT POLE SALVAGE DROP OFF LOCATION.
 4. THE EXISTING LIGHTING SYSTEM FOR HALSTED STREET SHALL REMAIN IN SERVICE UNTIL THE PROPOSED LIGHTING SYSTEM IS OPERATIONAL. HALSTED STREET SHALL REMAIN LIT, EITHER BY THE EXISTING PROPOSED SYSTEM THROUGHOUT THE DURATION OF THE PROJECT. COORDINATION OF POWER SUPPLY WITH COM ED FOR THE EXISTING AND PROPOSED SYSTEMS SHALL BE PROVIDED BY THE CONTRACTOR TO PROVIDE UNINTERRUPTED SERVICE OF THE LIGHTING SYSTEMS.
 5. CONNECTION TO EXISTING LIGHTS SHALL BE ACCOMPLISHED BY PROVIDING NEW FUSE KITS AND SPLICES PER THE LIGHTING DETAILS. THE COST OF CONNECTING TO THE EXISTING LIGHTS INCLUDING THE MATERIALS REQUIRED, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE UNIT DUCT.

CONTROLLER #1
STA 300+01, 23 RT
240 VOLT, 100 AMP

SERVICE WIRE IN 2.5" RGSC,
3-1/C NO. 1/0 XLP TYPE USE

ELECTRIC SERVICE INSTALLATION
STA 300+46.15, 37.229RT
120/240V, 1-PHASE
3-WIRE, 60 HZ, 100 AMP



FILE NAME = 15323-LGHT-01 - P01

Robinson
ENGINEERING

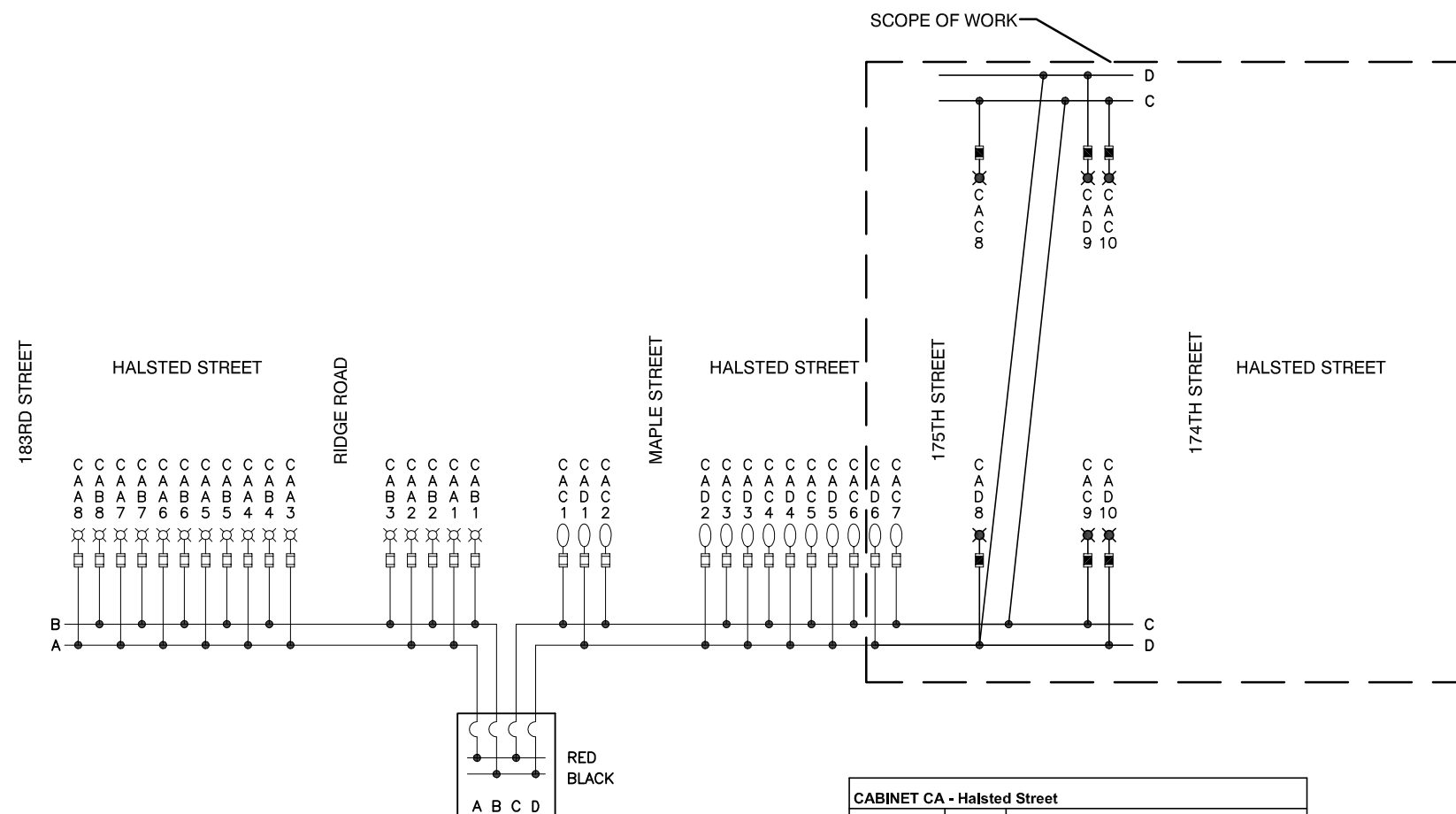
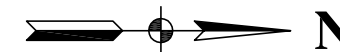
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	CHECKED - APG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
STREET LIGHTING

SCALE: SHEET NO. 53 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	53
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



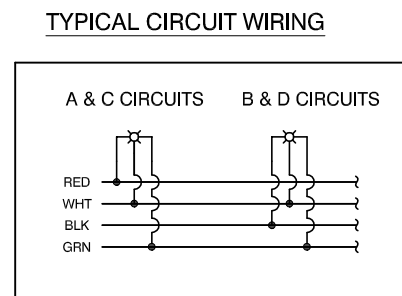
EXISTING CONTROL CA
240/480V, 1Ø, 3 WIRE, 60HZ

NOMINAL WATTAGE	FUSE SIZE
400	5.0 AMP

FUSE SIZE TABLE

CABINET CA - Halsted Street			
CIRCUIT	WATTS	AMPS @ 240V	
		RED PHASE	BLACK PHASE
A	4,680	19.50	
B	4,680		19.50
C	3,442	14.34	
D	3,081		12.84
SUBTOTAL	15,883	33.84	32.34
TOTAL AMPS @ 240 V		66.18	

- NOTES**
- EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BOUNDED AT EACH LIGHT POLE OR OTHER EQUIPMENT.



INDIVIDUAL LOAD DATA			
NOMINAL	INPUT VOLTS	MAX INPUT AMPS	INPUT WATTS
310	240.00	1.5	361.00
400	240.00	2.0	468.00

- LEGEND**
- EXISTING LUMINAIRE, 310W HPS
 - ⊗ EXISTING LUMINAIRE, 400W HPS
 - ⊗ PROPOSED LUMINAIRE, 400W HPS
 - EXISTING FUSE
 - PROPOSED FUSE - REFER TO FUSE SIZE TABLE
 - A LUMINAIRE CIRCUIT, 240V
 - ⌋ CIRCUIT BREAKER
 - CONNECTION

FILE NAME = 15323-LGHT-01 - P02



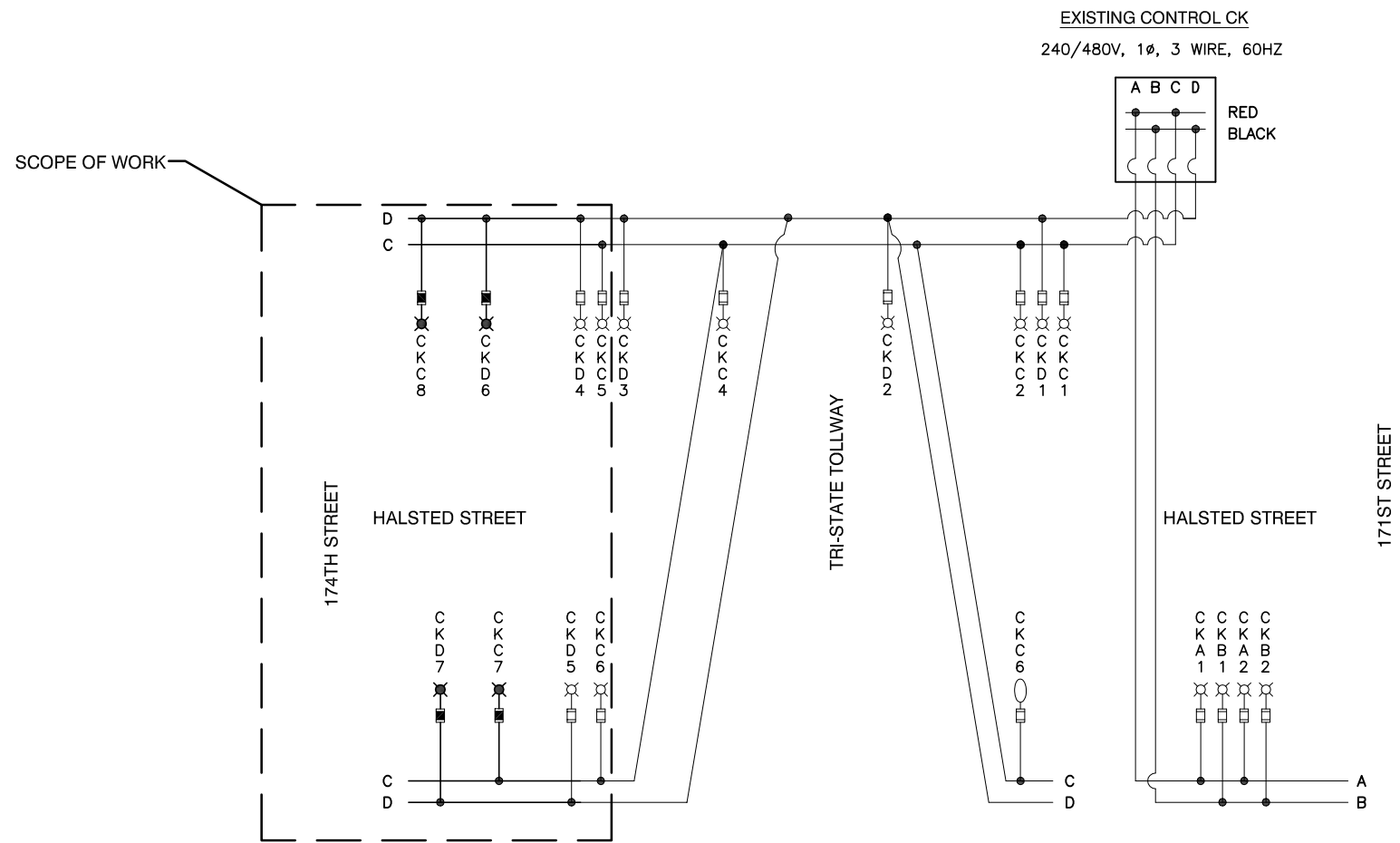
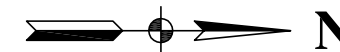
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PLOT SCALE =	DRAWN -- MED	REVISED --
PLOT DATE = 06-16-17	CHECKED -- APG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
STREET LIGHTING

SCALE: SHEET NO. 54 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	54
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



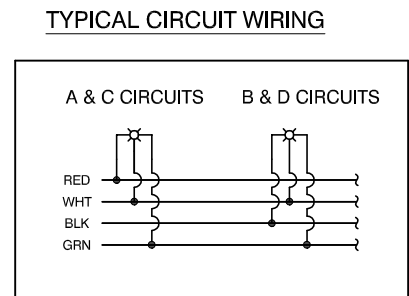
NOMINAL WATTAGE	FUSE SIZE
400	5.0 AMP

FUSE SIZE TABLE

CABINET CK - Halsted Street			
CIRCUIT	WATTS	AMPS @ 240V	
		RED PHASE	BLACK PHASE
A	936	3.90	
B	936		3.90
C	3,779	15.60	
D	3,779		13.65
SUBTOTAL	9,430	19.50	17.55
TOTAL AMPS @ 240 V		37.05	

NOTES

1. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BOUNDED AT EACH LIGHT POLE OR OTHER EQUIPMENT.



INDIVIDUAL LOAD DATA			
NOMINAL	INPUT VOLTS	MAX INPUT AMPS	INPUT WATTS
310	240.00	1.5	361.00
400	240.00	2.0	468.00

- LEGEND**
- EXISTING LUMINAIRE, 310W HPS
 - ⊗ EXISTING LUMINAIRE, 400W HPS
 - ⊗ PROPOSED LUMINAIRE, 400W HPS
 - EXISTING FUSE
 - PROPOSED FUSE - REFER TO FUSE SIZE TABLE
 - A LUMINAIRE CIRCUIT, 240V
 - ⌋ CIRCUIT BREAKER
 - CONNECTION



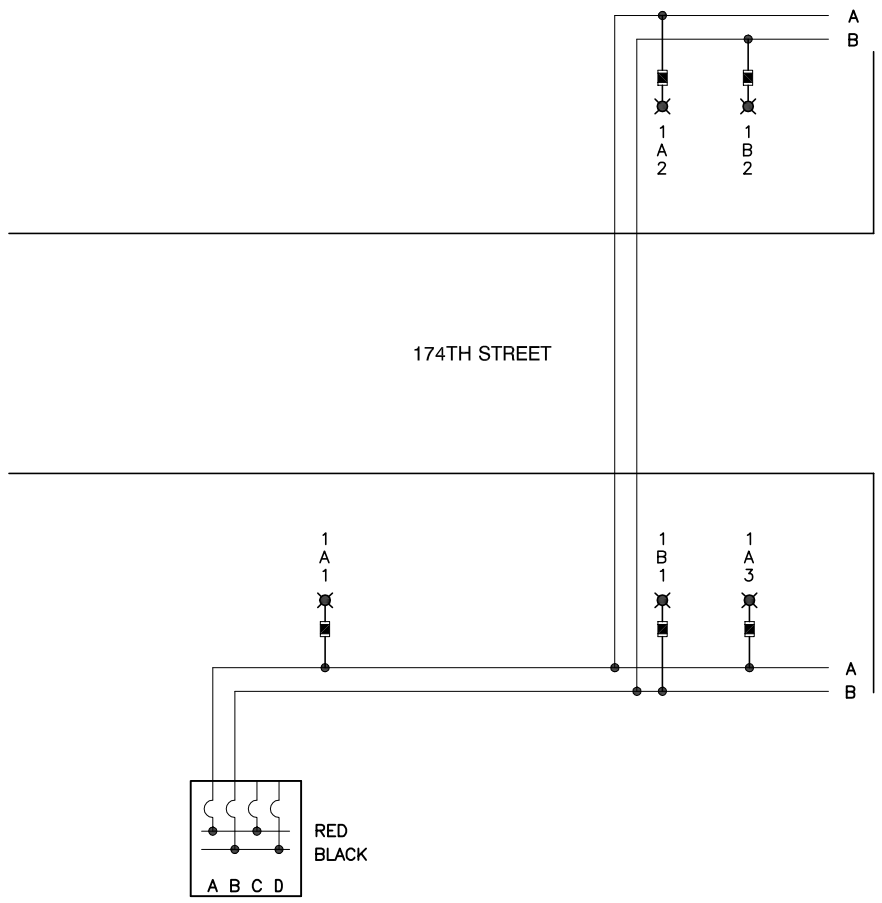
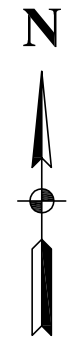
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
STREET LIGHTING

SCALE: SHEET NO. 55 OF 87 SHEETS STA. TO STA.

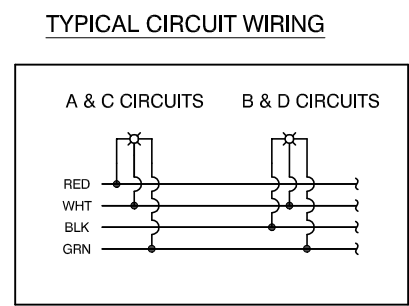
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	55
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



CONTROLLER #1
120/240V, 1 ϕ , 3 WIRE, 60HZ

NOMINAL WATTAGE	FUSE SIZE
92	3.0 AMP

FUSE SIZE TABLE



CABINET 1 - 174TH STREET			
CIRCUIT	WATTS	AMPS @ 120V	
		RED PHASE	BLACK PHASE
A	276	2.30	
B	184		1.53
C	0	0.00	
D	0		0.00
SUBTOTAL	460	2.30	1.53
TOTAL AMPS @ 120 V		3.83	

INDIVIDUAL LOAD DATA			
NOMINAL	INPUT VOLTS	MAX INPUT AMPS	INPUT WATTS
92	120.00	0.8	90.00

NOTES
1. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BOUNDED AT EACH LIGHT POLE OR OTHER EQUIPMENT.

- LEGEND**
- PROPOSED LUMINAIRE, 92W LED
 - PROPOSED FUSE - REFER TO FUSE SIZE TABLE
 - A LUMINAIRE CIRCUIT
 - CIRCUIT BREAKER
 - CONNECTION



FILE NAME = 15323-LGHT-01 - P03	USER NAME =	DESIGNED -- SDK	REVISED --
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

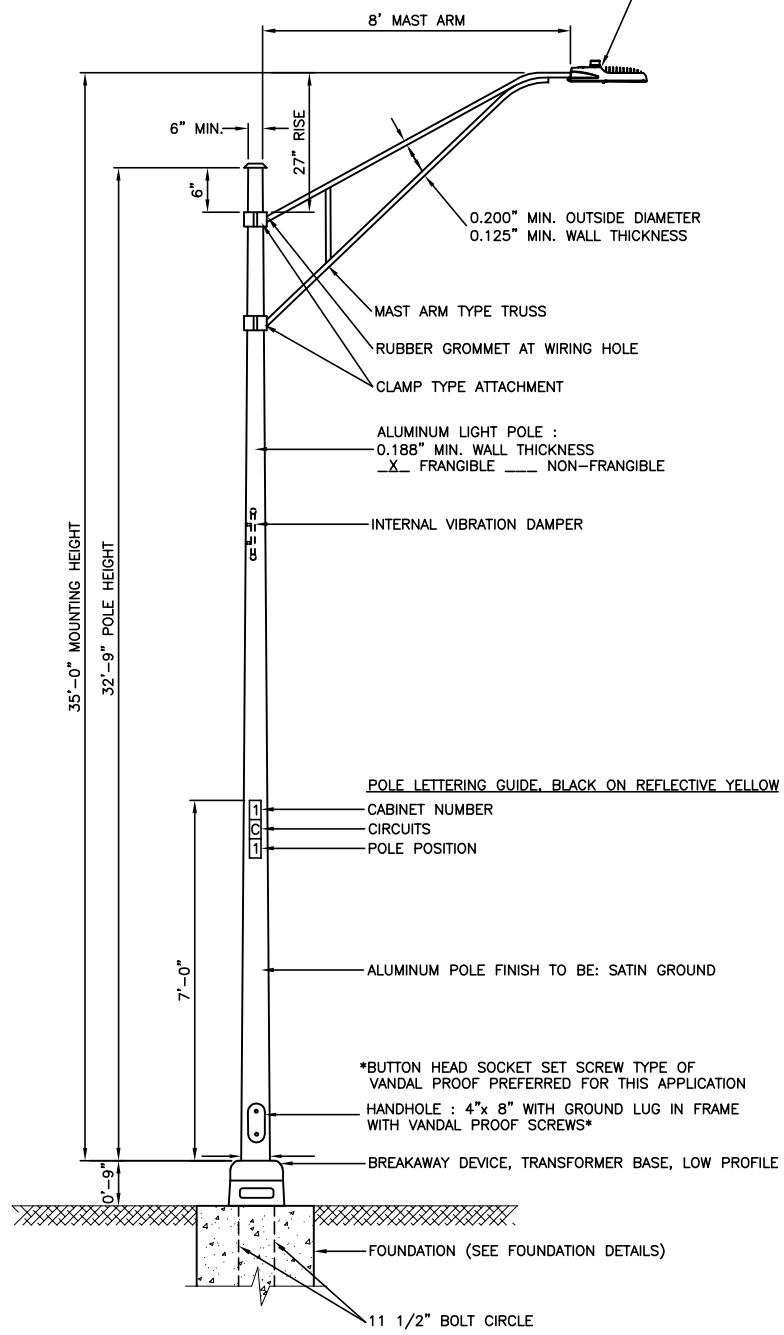
IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
STREET LIGHTING

SCALE: SHEET NO. 56 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	56
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

LUMINAIRE:
 92 WATT LED
 120 VOLT, 1300mA DRIVER
 I.E.S. TYPE: TYPE II
 BWG RATING: B2-U0-G2
 LENS TYPE: FLAT
 INITIAL LAMP LUMENS: 7504
 L70: 100,000 HOURS

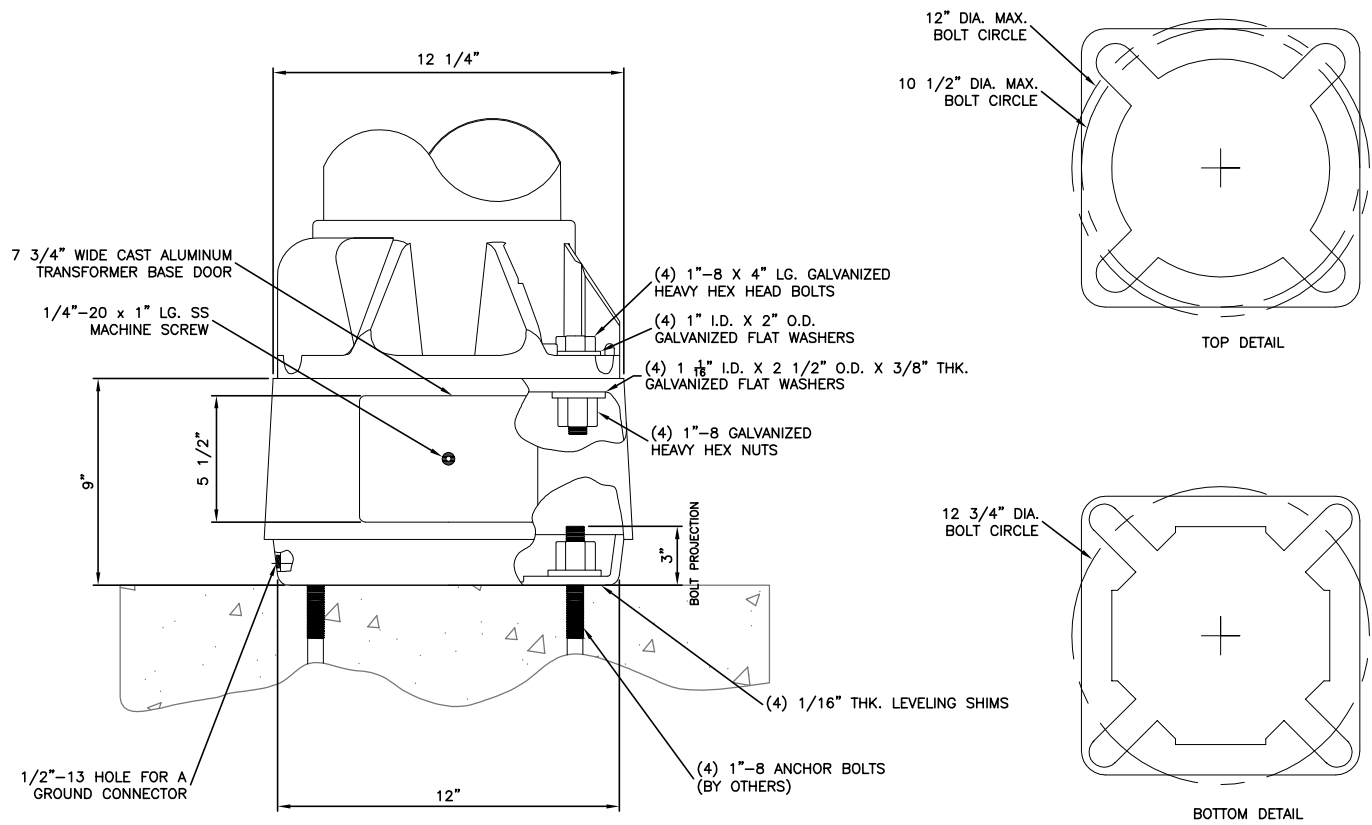
IMPORTANT NOTE:
 TRANSFORMER BASE AND LIGHTPOLE
 TO BE LEVELLED AS ONE UNIT. USING
 LEVELING SHIMS IF REQUIRED.



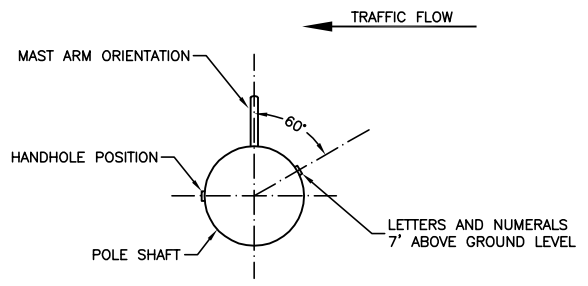
NOTES:

1. THE LIGHTING UNITS SHALL MEET AASHTO DESIGN CRITERIA. DESIGN FOR 90 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ. FT. AND PROPER ICE LOADING.
2. ALUMINUM ALLOY 6063-T6 SHALL BE USED.
3. LIGHT POLE AND ASSOCIATED EQUIPMENT TO BE U.L. LISTED

TYPICAL POLE INSTALLATION - 174TH STREET



**BREAKAWAY TRANSFORMER BASE DETAIL
 (174TH STREET)**



**POSITION OF HANDHOLE AND
 NUMERALS ON POLE**

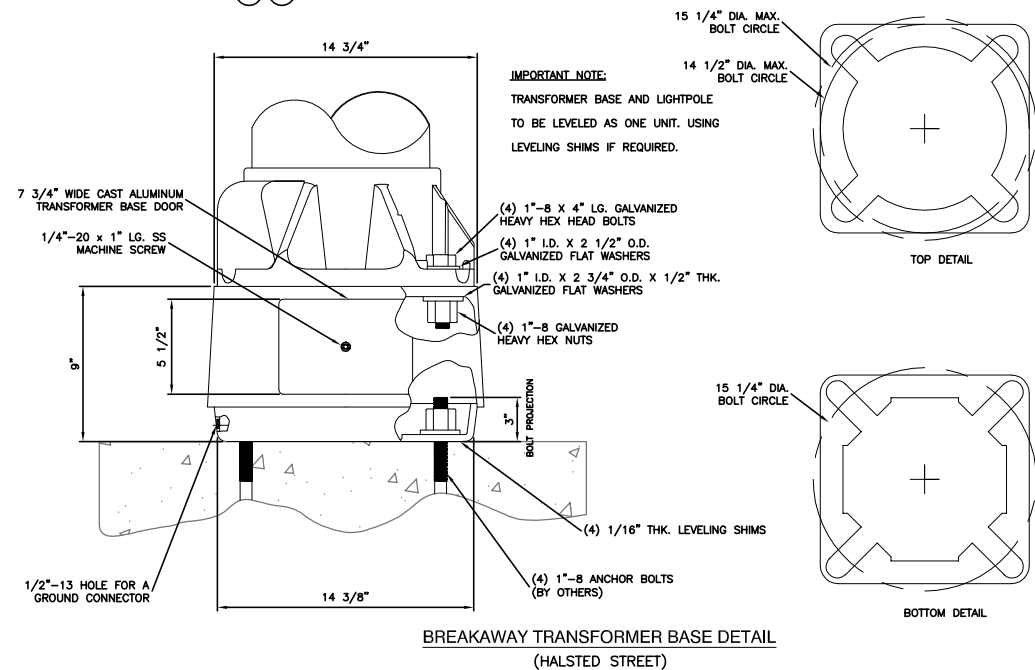
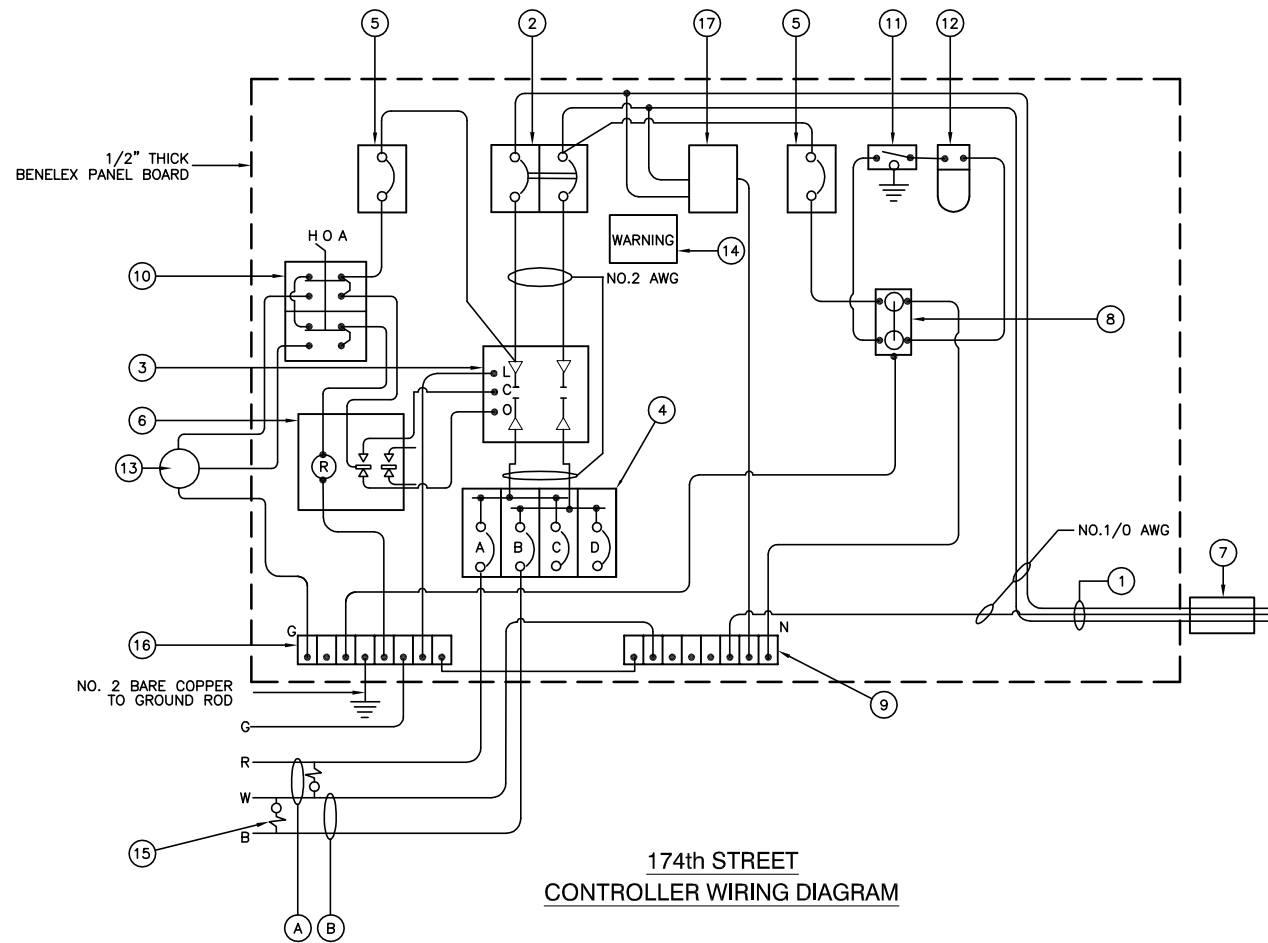


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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 1 (HALSTED STREET)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175TH STREET TO INTERCHANGE RAMP		0876	12-00023-00-WR	COOK	87	57
174TH STREET LIGHTING DETAILS		CONTRACT NO. 61D42				
SCALE:	SHEET NO. 57 OF 87 SHEETS	STA.	TO STA.			

FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)
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CONTROLLER WIRING DIAGRAM LEGEND

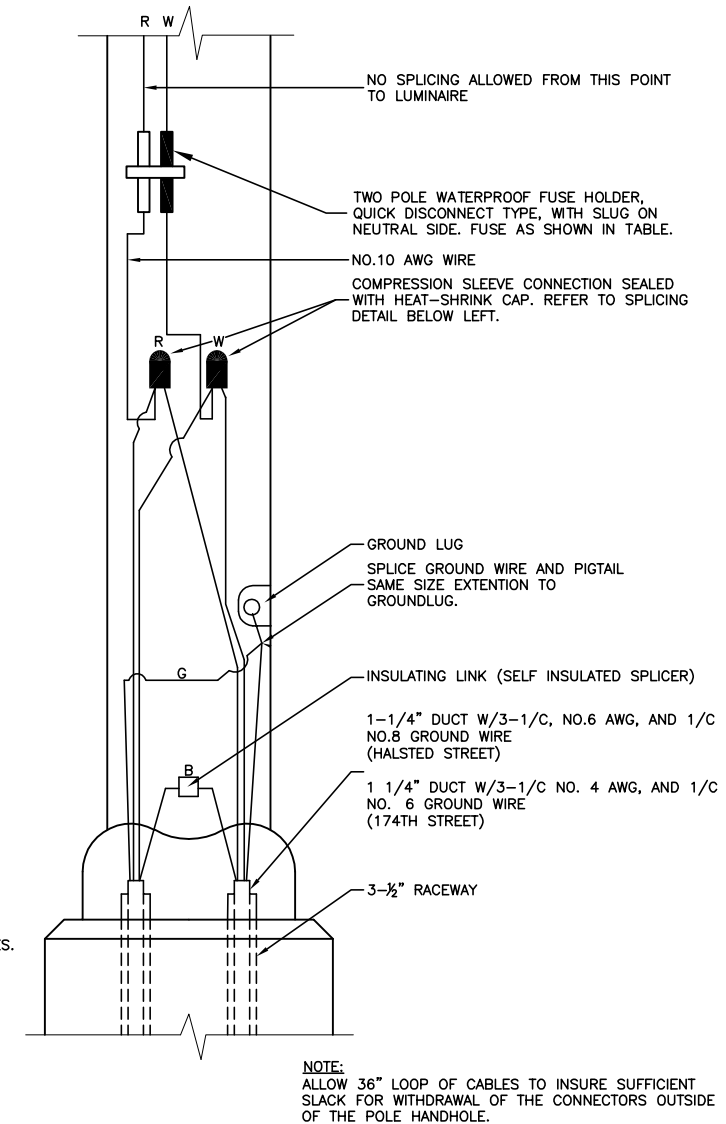
- ① 3-1/C, NO. 1/0, 600V SERVICE WIRE IN 2.5" DIA. GALVANIZED STEEL CONDUIT FOR 120/240 VOLT, 1Ø, 3 WIRE, 60HZ. SERVICE.
- ② (1) 100 AMP MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 14000 AMP AT 480 V.
- ③ (1) 100 AMP REMOTE CONTROL CONTACTOR SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, 600 VOLT
- ④ (4) 30 AMP CIRCUIT BREAKER, 1 POLE, 120 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP RATING NEMA - 14000 AMP AT 240 VOLTS.
- ⑤ (2) 20 AMP CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 120 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 14000 AMP AT 240 V.
- ⑥ (1) 20 AMP, 1 POLE DOUBLE THROW, 120 VOLT RELAY
- ⑦ METER SOCKET, 1Ø, 3 WIRE, 100A
- ⑧ (1) 20 AMP, 120 VOLT DUPLEX GFCI RECEPTACLE MOUNTED IN BOX.
- ⑨ NEUTRAL BUS BAR, 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH LUGS.
- ⑩ 3 POSITION SELECTOR SWITCH, 120V.
- ⑪ SWITCH FOR LIGHTING FIXTURE MOUNTED IN BOX, 20 AMP.
- ⑫ WEATHER-PROOF LIGHTING FIXTURE WITH 1600 LUMEN, 120 V LED LAMP.
- ⑬ PHOTOCCELL MOUNTED TO CABINET, 120 V, 1000 VA BALLAST RATING, 1-4 FC ON 3-12 FC OFF, 30 SECOND MINIMUM DELAY.
- ⑭ WARNING PLATE TO READ: WARNING, MAINTENANCE CIRCUIT IS LIVE WHEN MAIN BREAKER IS SWITCHED OFF
- ⑮ IN-LINE FUSEHOLDER WITH FUSE AS NOTED IN FUSE TABLE
- ⑯ GROUND BUS BAR 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH LUGS
- ⑰ SURGE ARRESTER, UL LISTED, NEC 280 COMPLIANT, 1Ø, 3 WIRE 60 HZ. MAX. 3,405 JOULES
- (A) CIRCUIT (RED)
- (B) CIRCUIT (BLACK)
- (C) CIRCUIT (RED) - FOR FUTURE USE
- (D) CIRCUIT (BLACK) - FOR FUTURE USE

GENERAL NOTES FOR CONTROL CABINET

1. ENTIRE CONTROL CABINET SHALL BE GROUNDED.
2. ALL WIRING SHALL BE TAGGED WITH SELF-STICKING WIRE MARKERS.
3. GROUND BUS TO BE COLOR CODED GREEN, NEUTRAL BUS WHITE, AND BONDED TO CABINET ENCLOSURE, BY LISTED PRESSURE CONNECTORS OR LISTED CLAMPS.
4. ALL INTERNAL CONTROLLER WIRING TO BE NO.12 AWG UNLESS OTHERWISE SPECIFIED.
5. CABINET WIRING INSULATION TO BE TYPE XHHW OR APPROVED EQUAL.
6. THE CONTROLLER SHALL BE UL LISTED, NEMA 3R AND SUITABLE FOR USE AS SERVICE ENTRANCE

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 C.E. Co. FOR APPROVAL OF LOCATION.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
5. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
7. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
8. CONDUITS AND UNIT DUCTS MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES.



POLE HANDHOLE WIRING DIAGRAM
(TYPICAL FOR SINGLE LUMINAIRE INSTALLATION)
(RED PHASE SHOWN)

FILE NAME = 15323-DTLS-LGHT-01 - IDOT P03



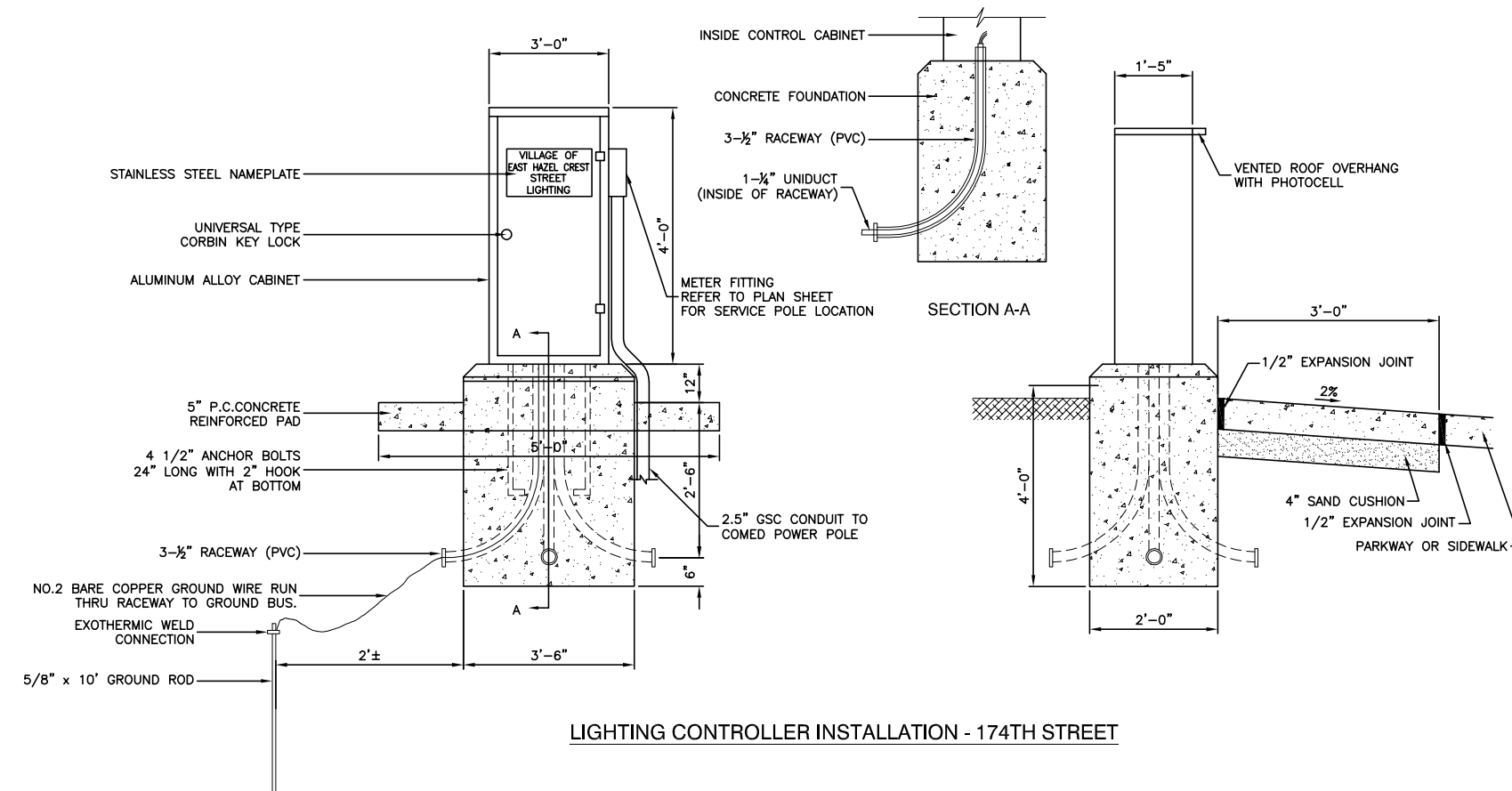
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	CHECKED -- APG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
174TH STREET LIGHTING DETAILS

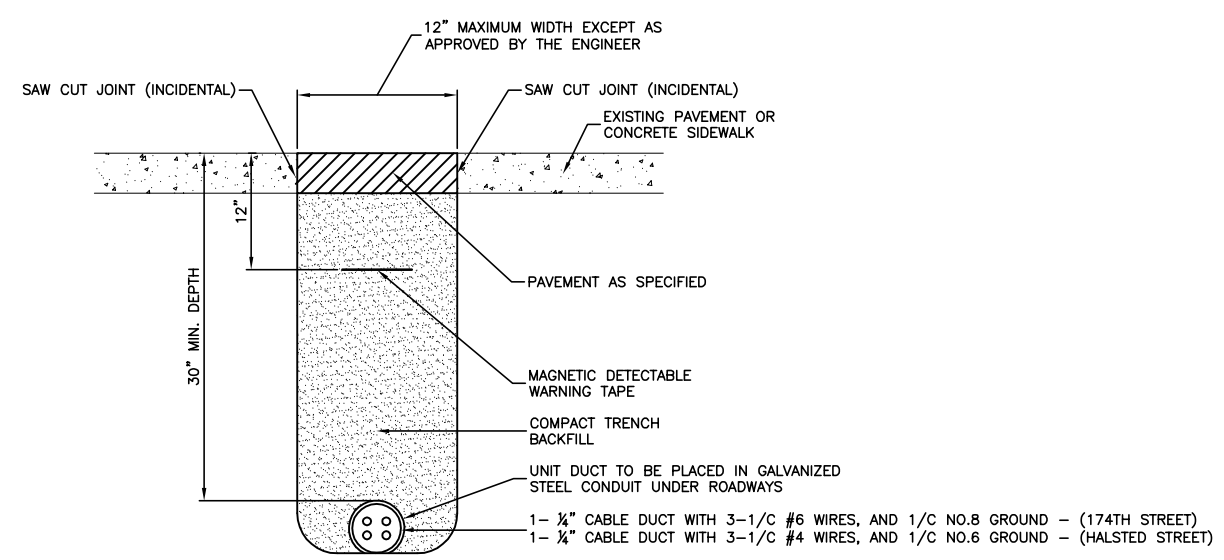
SCALE: SHEET NO. 58 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	58
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

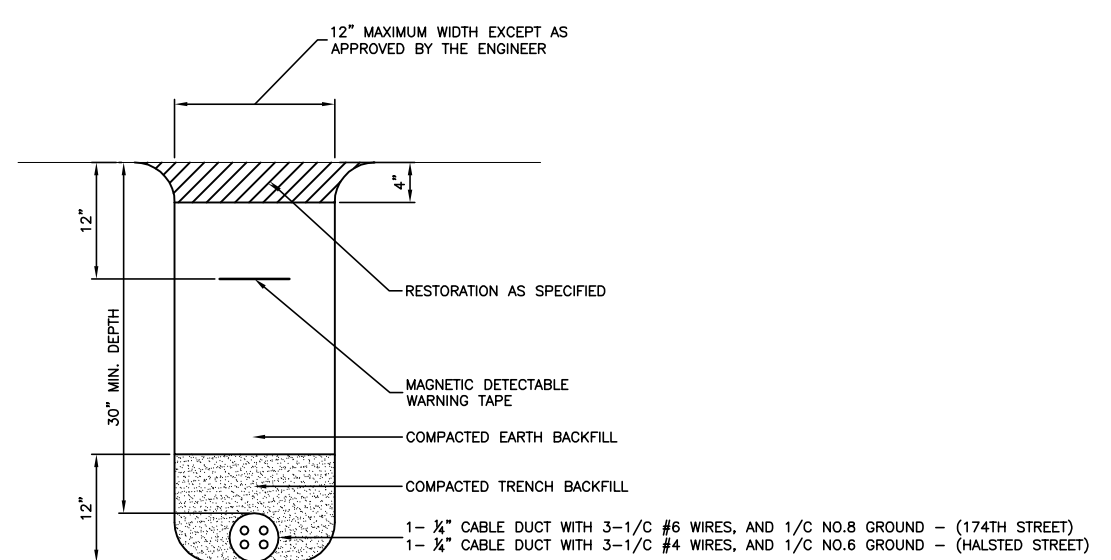


LIGHTING CONTROLLER INSTALLATION - 174TH STREET

- NOTE:
1. ORIENT CABINET SO DOOR OPENS AWAY FROM TRAFFIC.
 2. METER FITTING TO BE LOCATED ON THE SIDE OF THE CABINET CLOSEST TO SERVICE POLE.

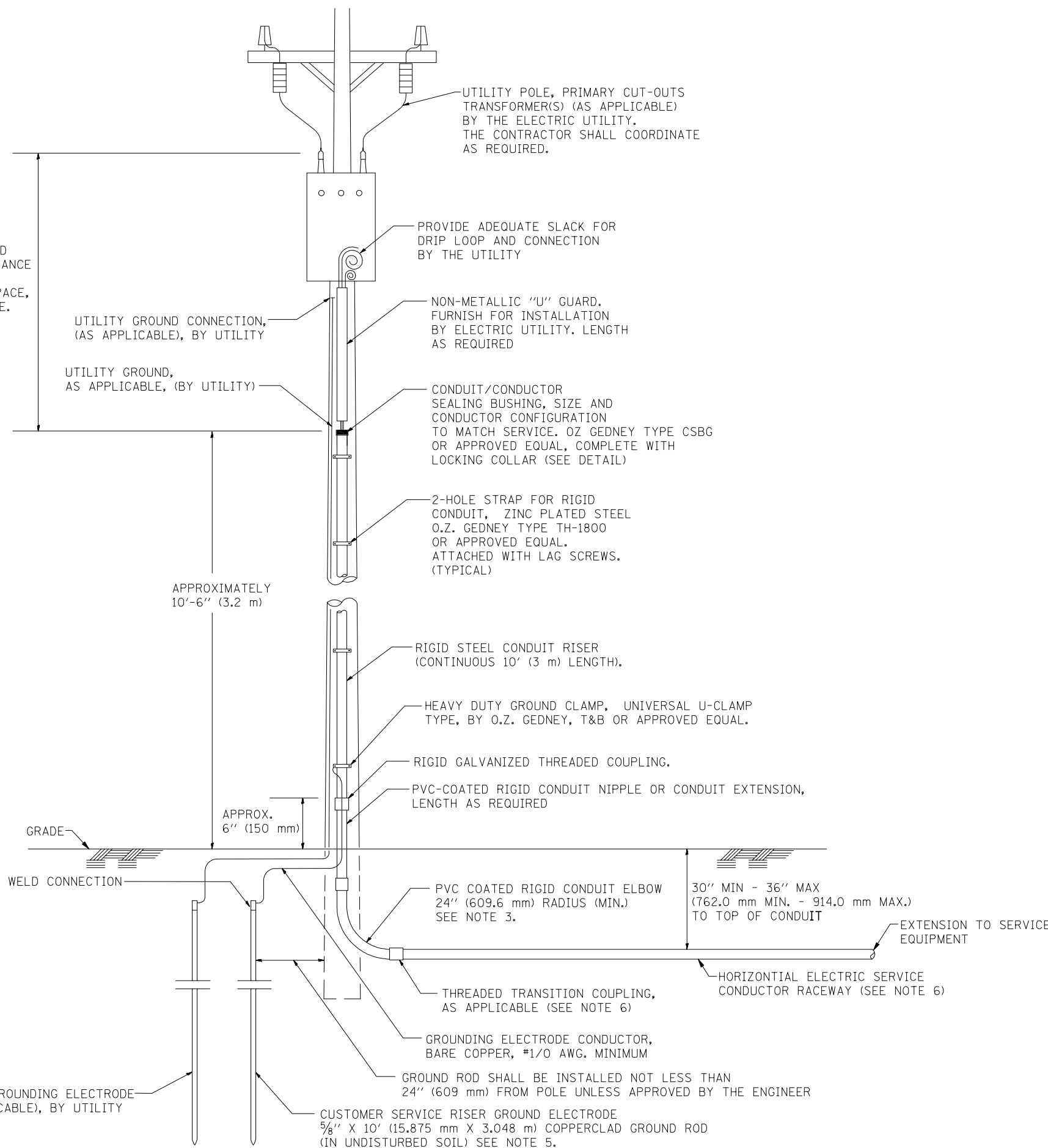


TRENCH DETAIL - PAVED AREAS



TRENCH DETAIL - UNPAVED AREAS

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.

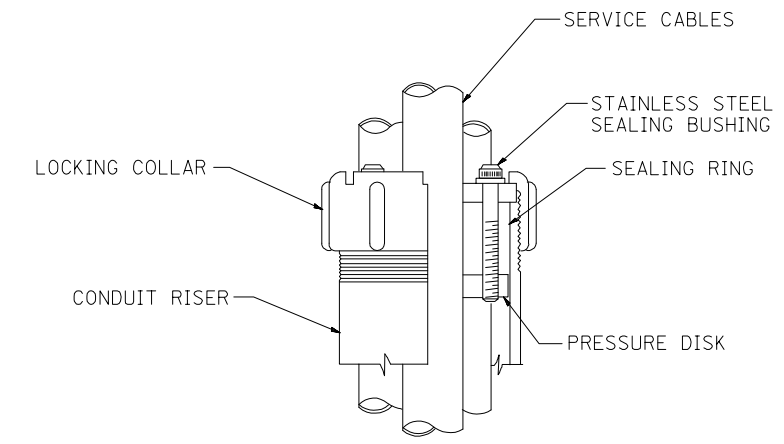


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

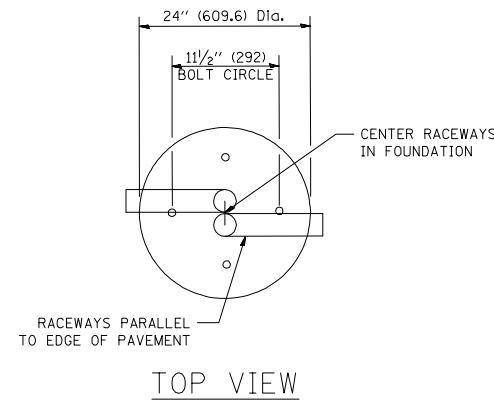


SEALING BUSHING DETAIL

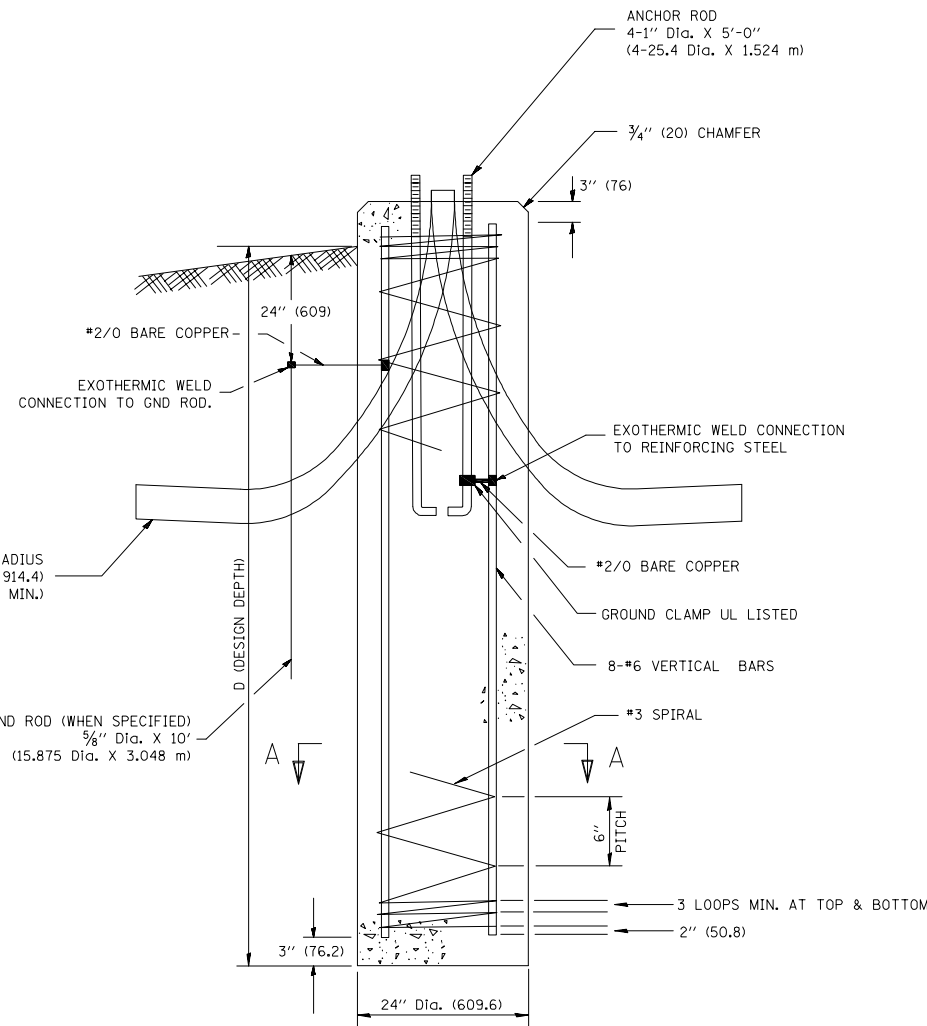
FILE NAME = 15323-DTSL-LGHT-01 - IDOT P05	USER NAME = geglionobt	DESIGNED --	REVISED -- 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED --	REVISED --	0876			12-00023-00-WR	COOK	87	60	
	PLOT SCALE = 50,0000' / IN.	DRAWN -- MEA	REVISED --			BE-220		CONTRACT NO. 61D42		
	PLOT DATE = 1/4/2008	CHECKED --	REVISED --			FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		
				SCALE:	SHEET NO. 60 OF 87 SHEETS	STA.	TO STA.			

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

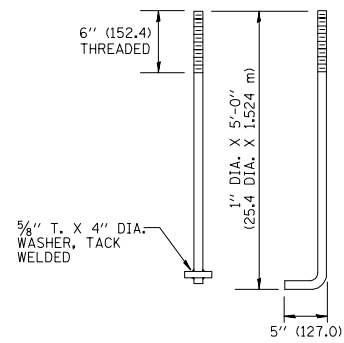
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT.	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SO. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



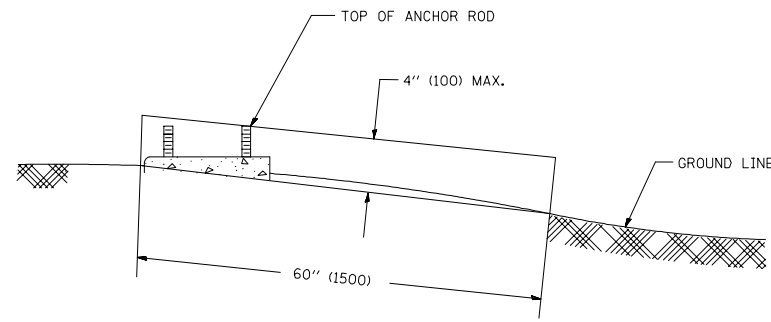
TOP VIEW



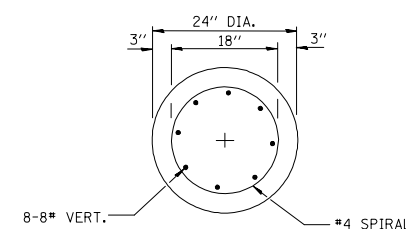
FOUNDATION DETAIL



ANCHOR BOLT DETAIL



FOUNDATION EXTENSION DETAIL



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 4 IN. (100 mm) 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 SI. 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 = 15323-DTLS-LGHT-01 - IDOT P06

USER NAME = geglionobt

DESIGNED --

REVISED --

CHECKED --

REVISED --

PLOT SCALE = 50.0000' / IN.

DRAWN --

REVISED --

PLOT DATE = 1/4/2008

CHECKED --

REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

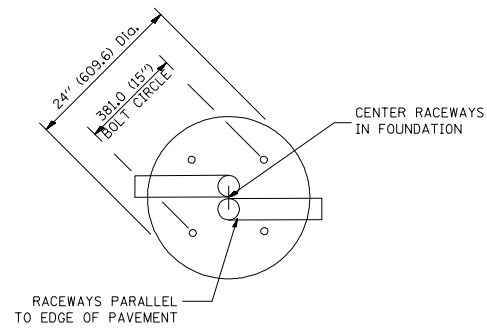
30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE

SCALE: SHEET NO. 61 OF 87 SHEETS STA. TO STA.

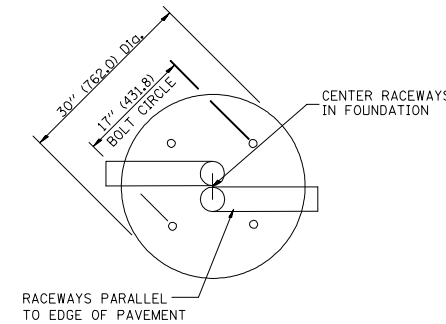
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	61
BE-300		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		

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 Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 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)



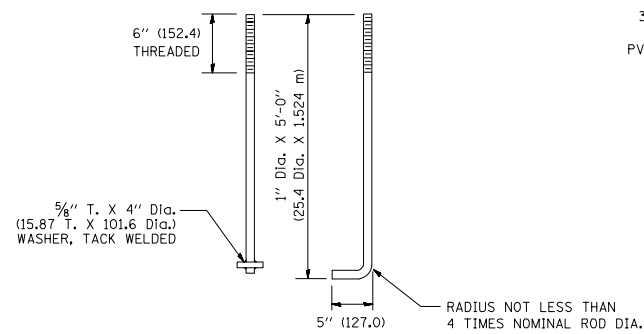
TOP VIEW



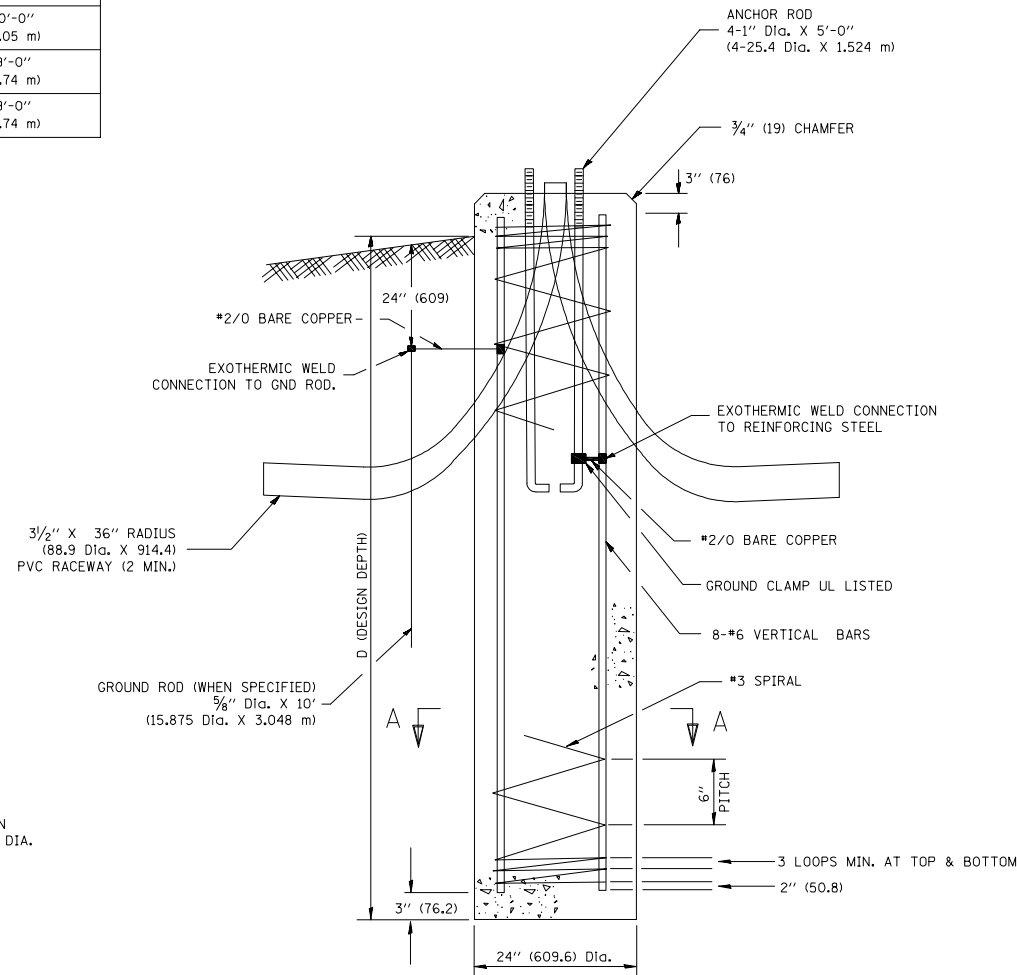
TOP VIEW

NOTES

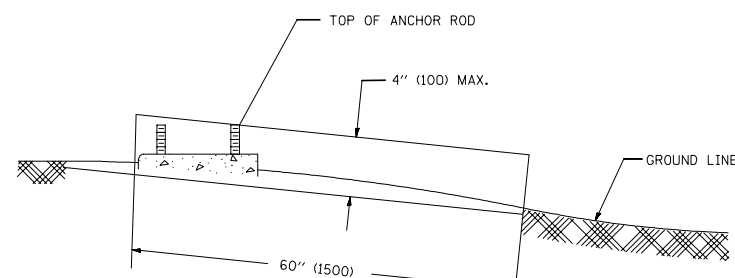
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, 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 SI. 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 UMG (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.



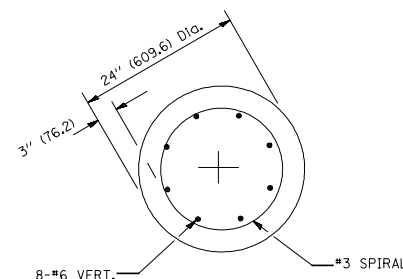
ANCHOR ROD DETAIL



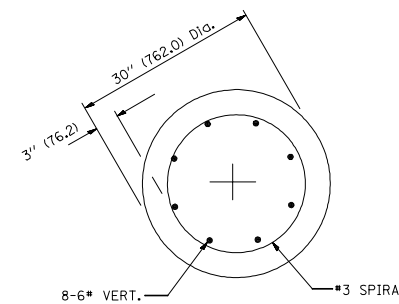
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

FILE NAME = 15323-DTSL-LGHT-01 - IDOT P07

USER NAME = geg11onobt

DESIGNED —

REVISED — 04-22-02

CHECKED —

REVISED —

PLOT SCALE = 50.0000 ' / IN.

DRAWN —

REVISED —

PLOT DATE = 1/4/2008

CHECKED —

REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

40' (12.192 m) TO 47' 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

SCALE:

SHEET NO. 62 OF 87 SHEETS

STA.

TO STA.

F.A.P. RTE.

SECTION

COUNTY

TOTAL SHEETS

SHEET NO.

0876

12-00023-00-WR

COOK

87

62

BE-301

CONTRACT NO. 61D42

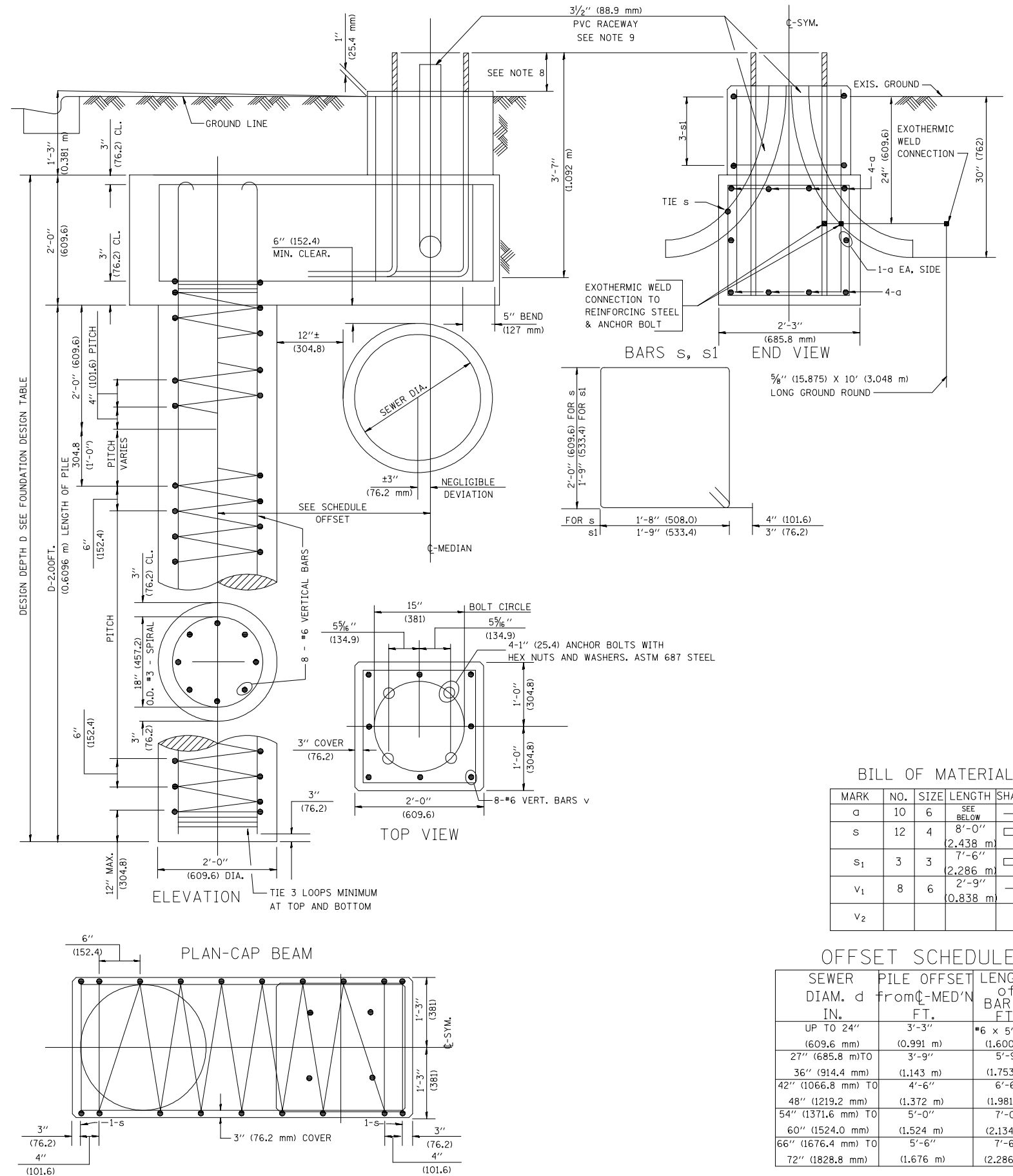
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- 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 BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 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.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s1	3	3	7'-6" (2.286 m)	□
v1	8	6	2'-9" (0.838 m)	—
v2				

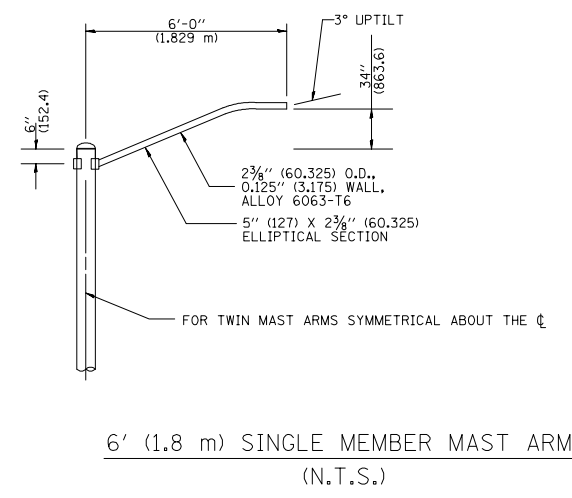
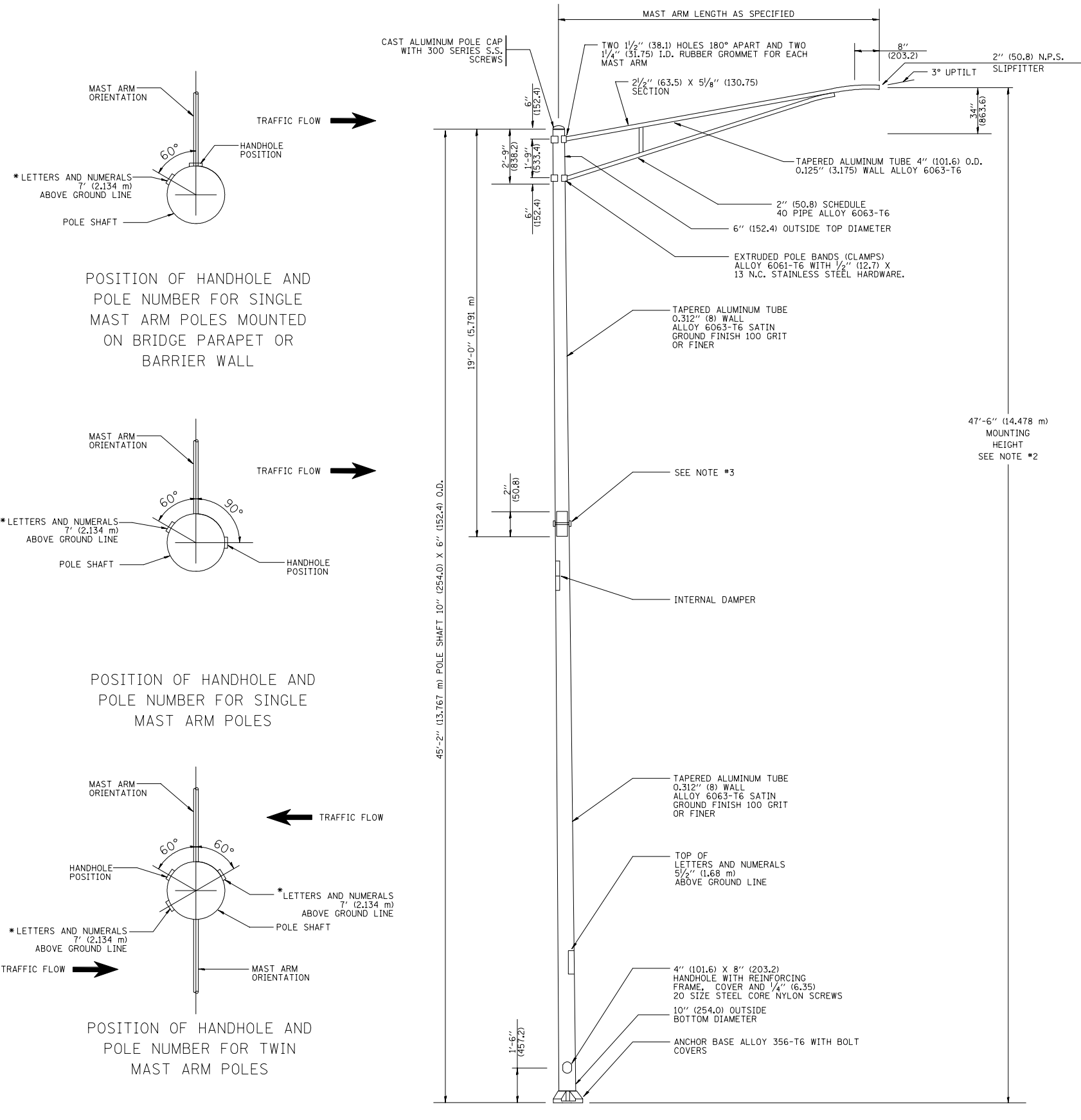
OFFSET SCHEDULE

SEWER DIAM. d	PILE OFFSET FROM C-MED'N IN.	LENGTH OF BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1.753 m)
36" (914.4 mm) TO	4'-6" (1.372 m)	6'-6" (1.981 m)
42" (1066.8 mm) TO	5'-0" (1.524 m)	7'-0" (2.134 m)
48" (1219.2 mm) TO	5'-6" (1.676 m)	7'-6" (2.286 m)
54" (1371.6 mm) TO	6'-0" (1.828 m)	8'-0" (2.438 m)
60" (1524.0 mm) TO	6'-6" (1.981 m)	8'-6" (2.600 m)
66" (1676.4 mm) TO	7'-0" (2.134 m)	9'-0" (2.743 m)
72" (1828.8 mm) TO	7'-6" (2.286 m)	9'-6" (2.900 m)

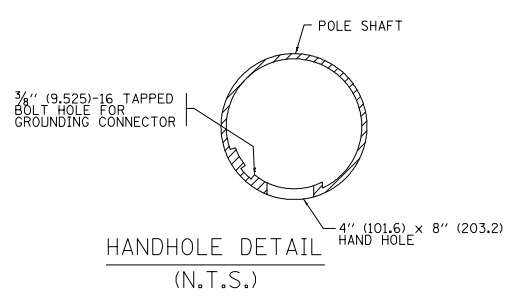
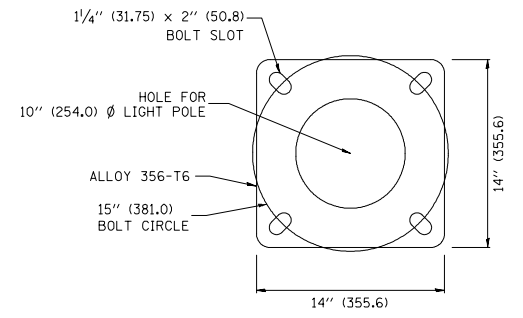
FILE NAME = 15323-DTSL-LGHT-01 - IDOT P08	USER NAME = bauer-dl	DESIGNED —	REVISED —06-16-08 R. TOMSONS
		CHECKED —	REVISED —
	PLOT SCALE = 50,000 ' / IN.	DRAWN —	REVISED —
	PLOT DATE = 6/16/2008	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

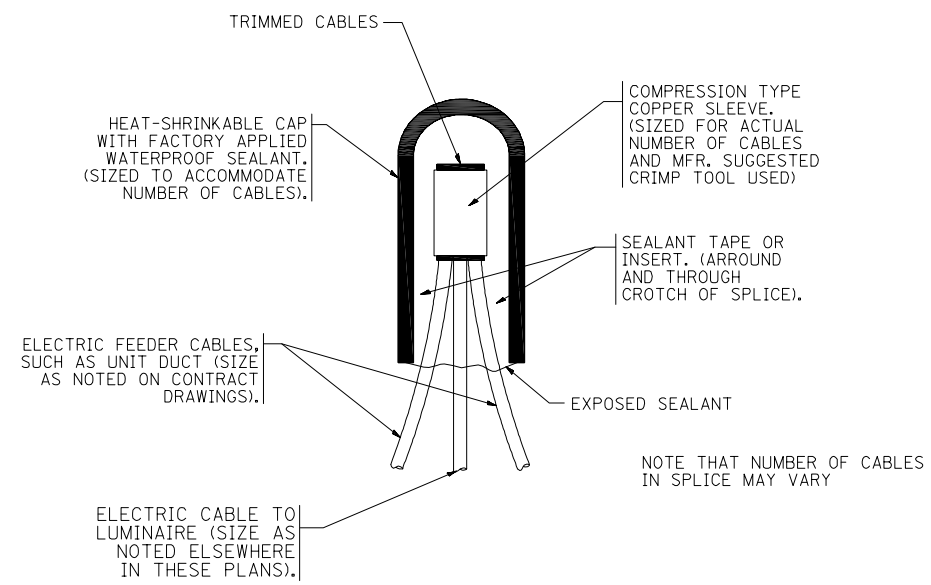
LIGHT POLE FOUNDATION OFFSET 40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE		F.A.P. RTE. 0876	SECTION 12-00023-00-WR	COUNTY COOK	TOTAL SHEETS 87	SHEET NO. 63
SCALE: SHEET NO. 63 OF 87 SHEETS STA. TO STA.		BE-310		CONTRACT NO. 61D42		
		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-4003(039)		



- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

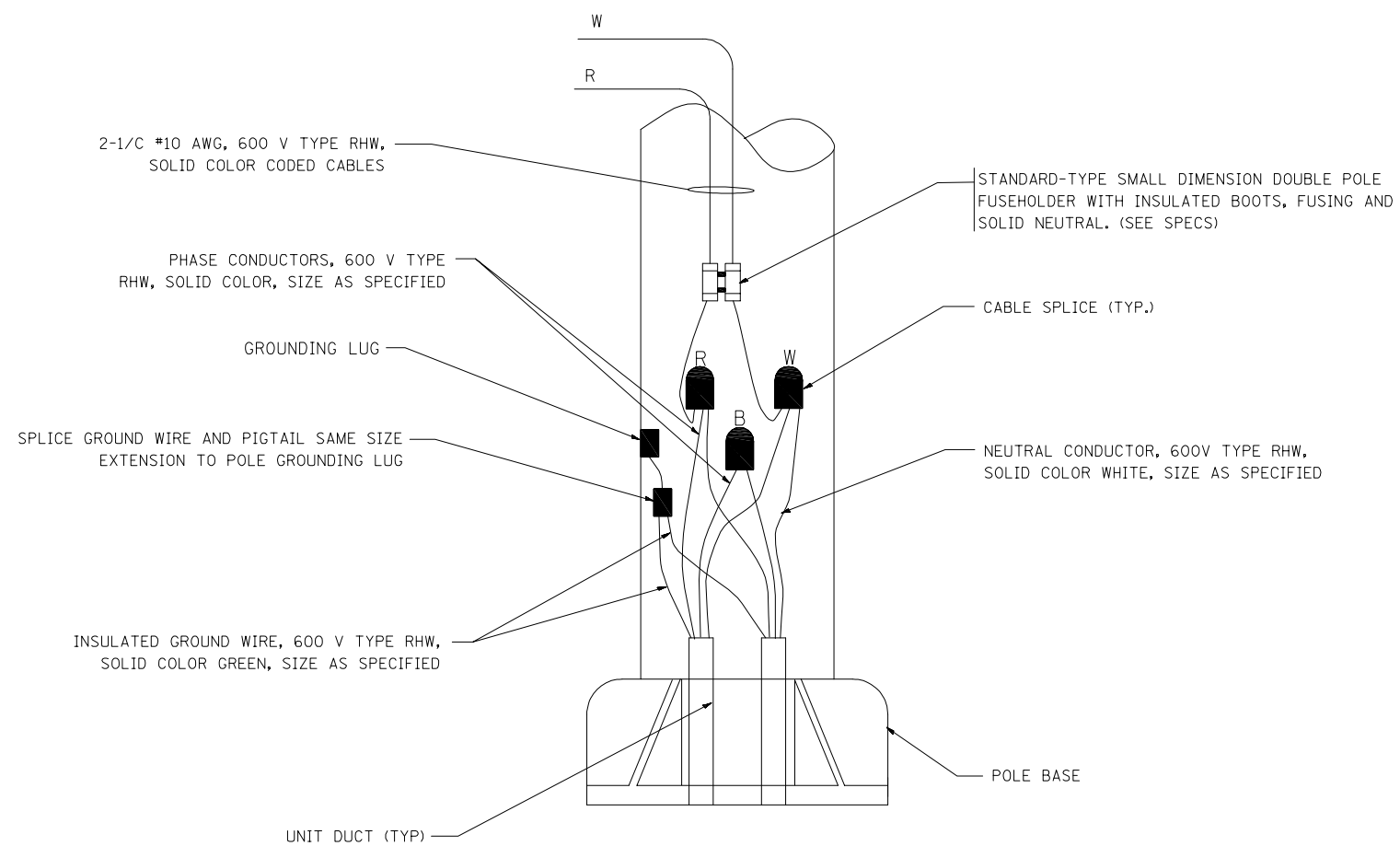


FILE NAME = 15323-DTSL-LGHT-01 - IDOT P08 (2)	USER NAME = dr-ivakosgn	DESIGNED —	REVISED — R. TOMSONS 09-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED — R. TOMSONS 09-03-03		0876	12-00023-00-WR	COOK	87	64			
	PLOT SCALE = 50.000' / 1in.	DRAWN —	REVISED — R. TOMSONS 01-18-13		BE-400			CONTRACT NO. 61D42				
	PLOT DATE = 12/21/2015	CHECKED —	REVISED — R. TOMSONS 03-18-15		SCALE:	SHEET NO. 64 OF 87 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)	



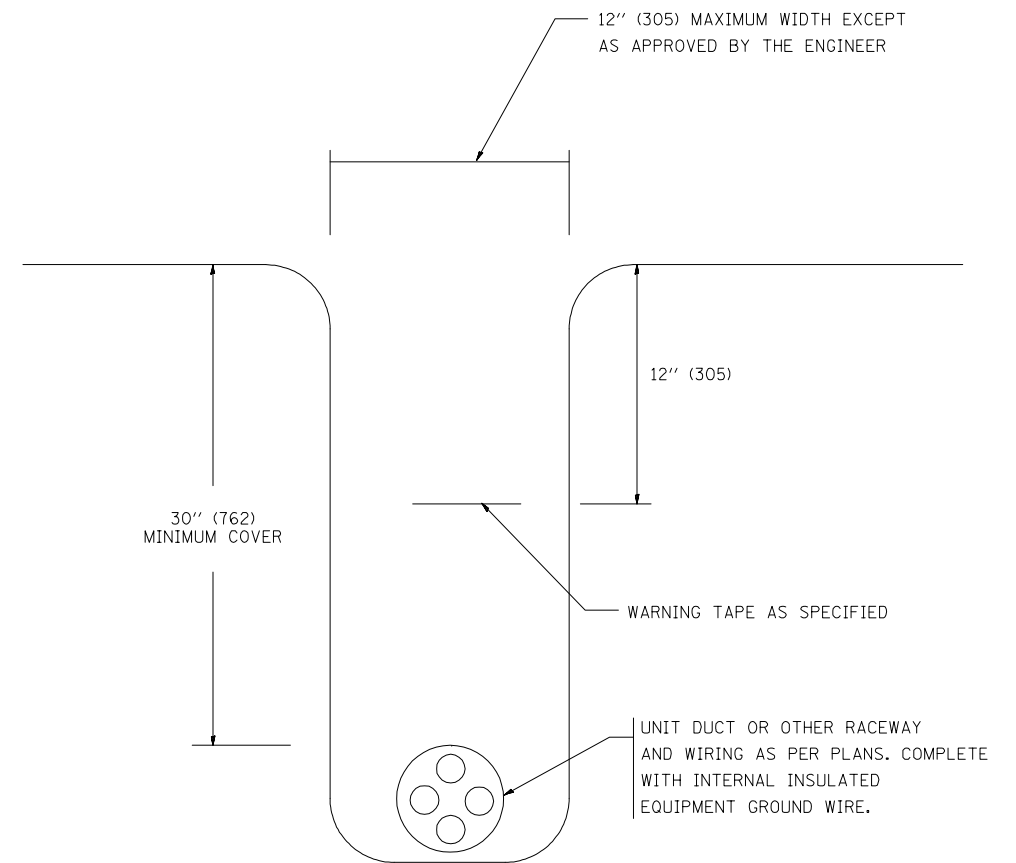
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME = 15323-DTLS-LGHT-01 - IDOT P08 (3)

USER NAME = gegionabt

DESIGNED — REVISED — 08-08-03

CHECKED —

REVISIONS

PLOT SCALE = 50,000' / IN.

DRAWN —

PLOT DATE = 1/4/2008

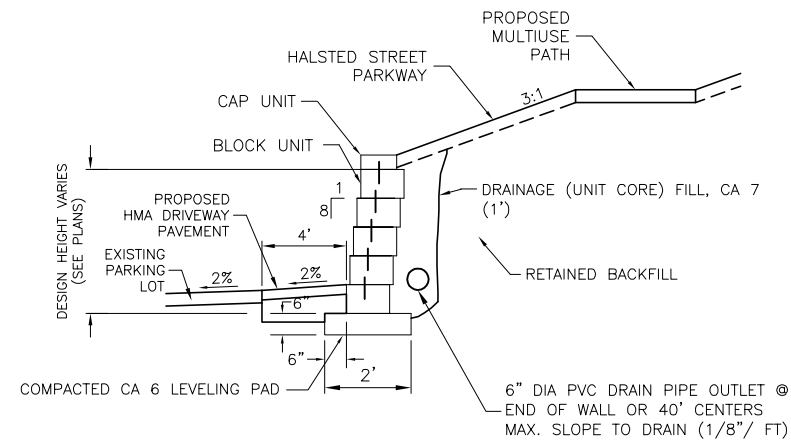
CHECKED — REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

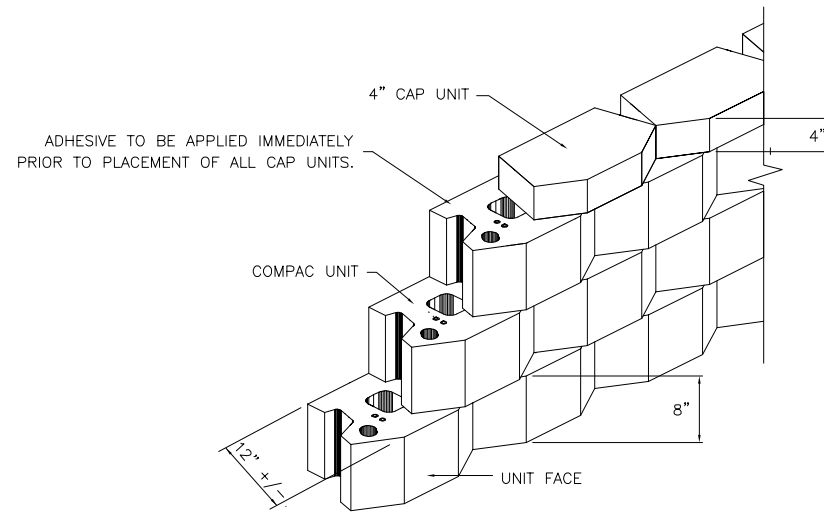
SCALE: SHEET NO. 65 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	65
BE-702		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		



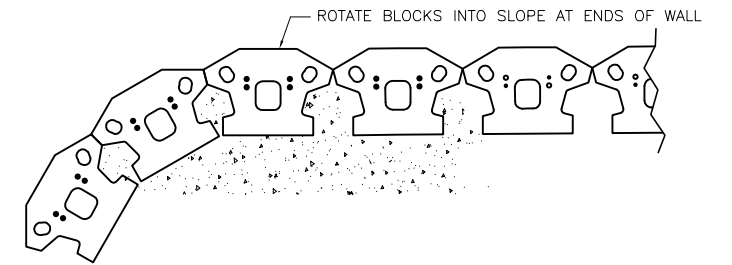
TYPICAL REINFORCED SECTION

COMPAC UNITS - 1" SETBACK
SCALE: NONE



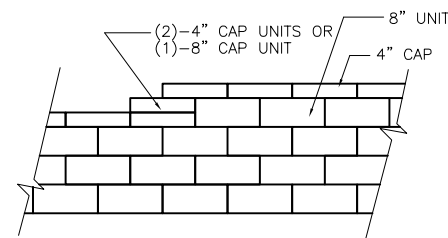
BLOCK UNIT

ISOMETRIC
SCALE: NONE



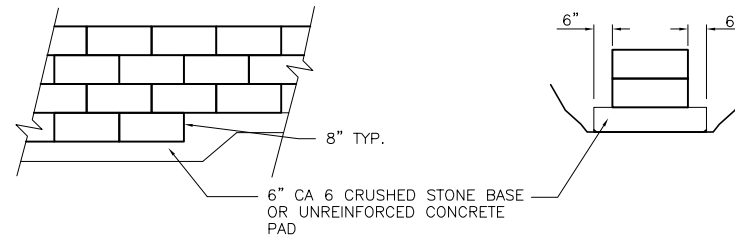
WALL TERMINATION DETAIL PLAN

SCALE: NONE



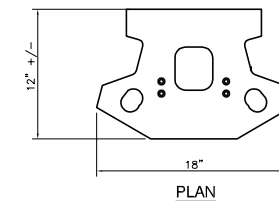
TOP OF WALL STEPS

SCALE: NONE

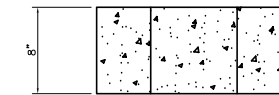


LEVELING PAD AND STEP DETAILS

SCALE: NONE



PLAN



FACE

BLOCK UNIT

SCALE: NONE

FILE NAME = 15323-RETIN-WALL-01 - IDOT PLPR02

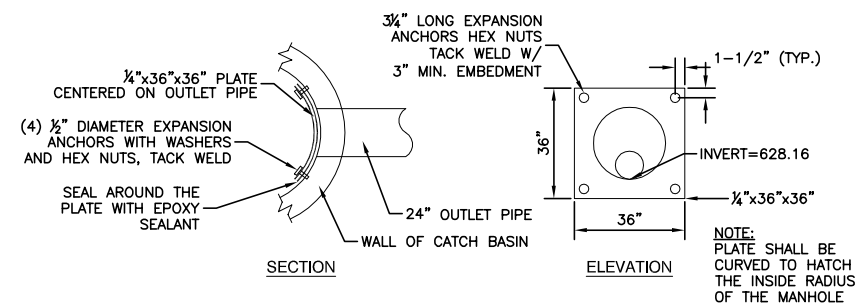
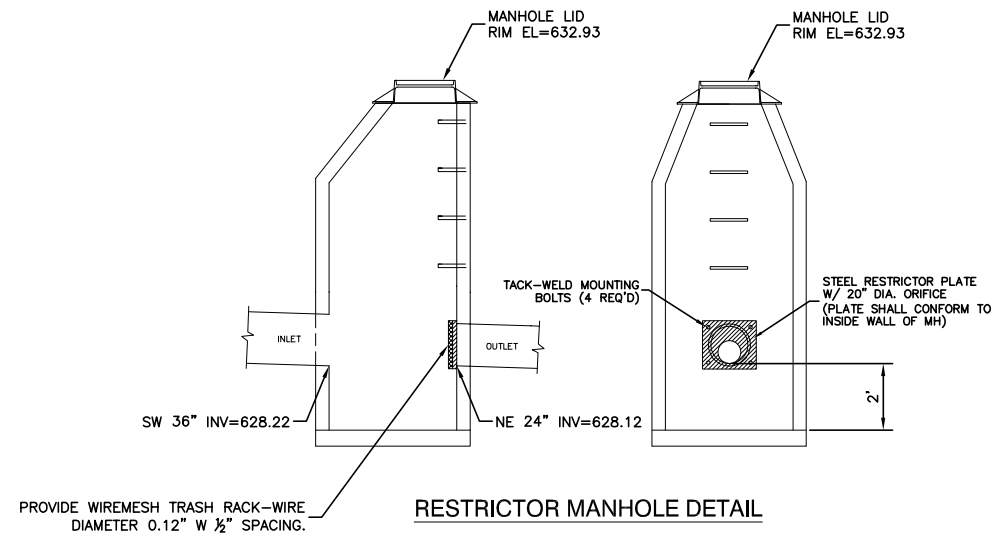
USER NAME =	DESIGNED -- SDK	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 06-16-17	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
RETAINING WALL PLANS

SCALE: NONE SHEET NO. 67 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	67
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		



NOTE:
THE RESTRICTOR PLATE AND FASTENERS SHALL BE INCLUDED IN THE COST OF THE MANHOLE.

FILE NAME = 15323-DTLS-02 - IDOT P01

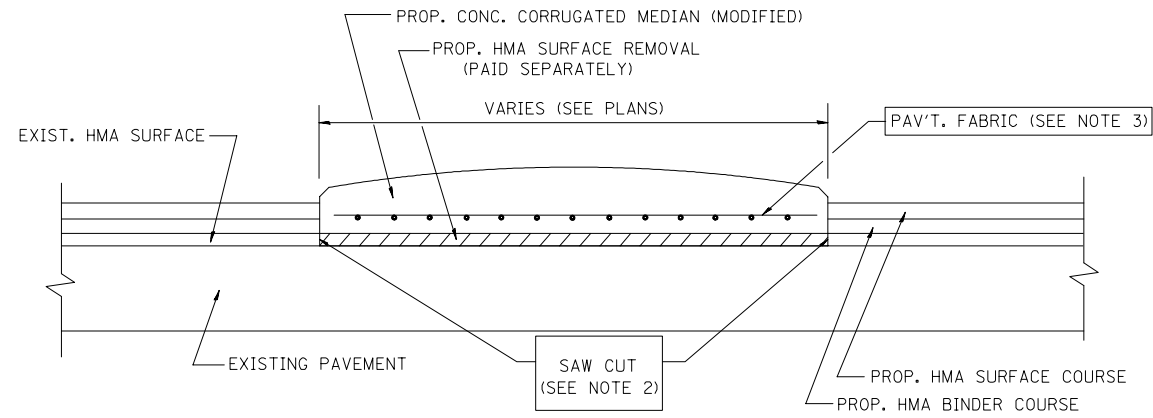
USER NAME =	DESIGNED — SDK	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — RG	REVISED —
PLOT DATE = 06-16-17	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CONSTRUCTION DETAILS

SCALE: SHEET NO. 68 OF 87 SHEETS STA. TO STA.

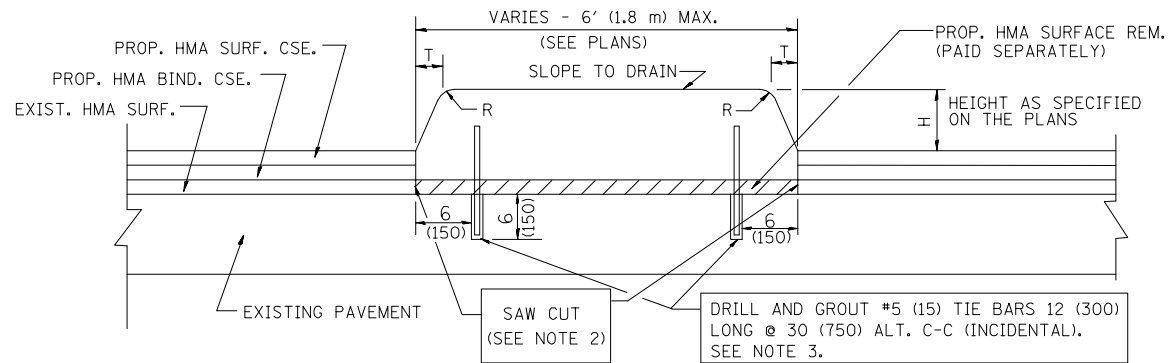
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	68
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		



- NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
 3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(50)

- NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
 3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

DETAILS FOR CONCRETE MEDIAN
TYPE SB (DOWELLED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

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

FILE NAME = 15323-DTLS-01 - B005

USER NAME = goglionobt

DESIGNED -- M. DE YONG

REVISED -- R. SHAH 09-09-94

CHECKED --

REVISED -- R. SHAH 10-25-94

PLOT SCALE = 50.0000' / IN.

DRAWN --

REVISED -- E. GOMEZ 08-28-00

PLOT DATE = 1/4/2008

CHECKED -- 05-14-90

REVISED -- R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED)
CORRUGATED MEDIAN (MODIFIED)

SCALE: NONE

SHEET NO. 69 OF 87 SHEETS

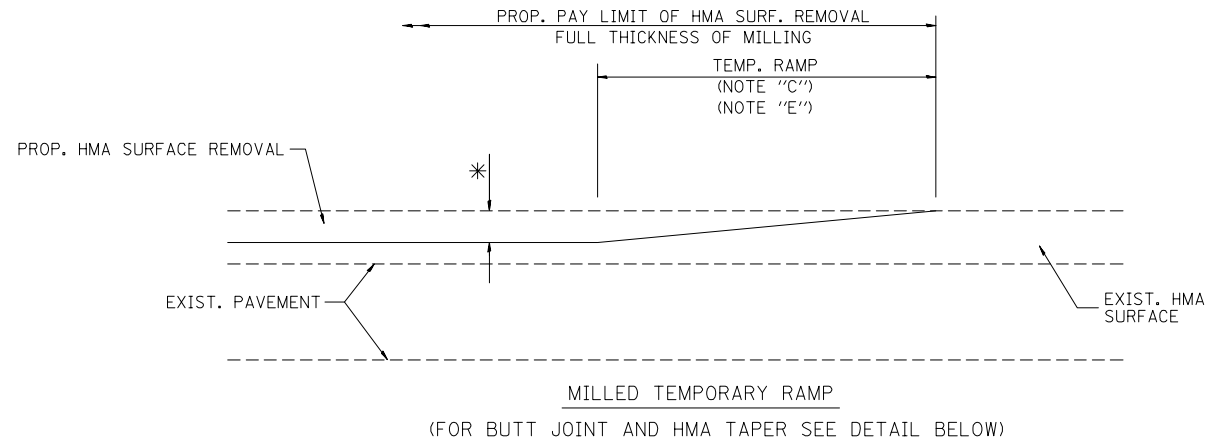
STA. TO STA.

F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.

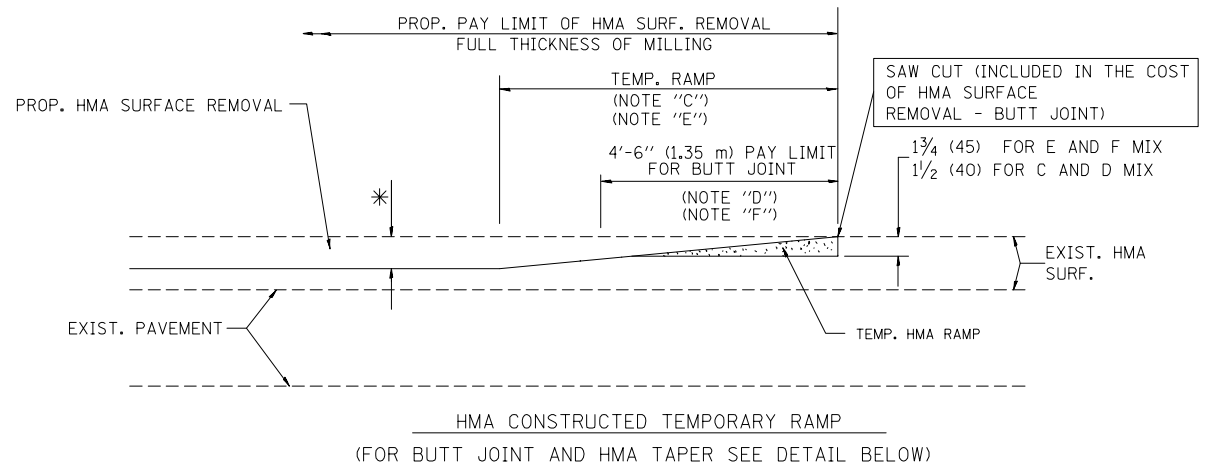
0876 12-00023-00-WR COOK 87 69

BD600-02 (BD-5) CONTRACT NO. 61D42

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)

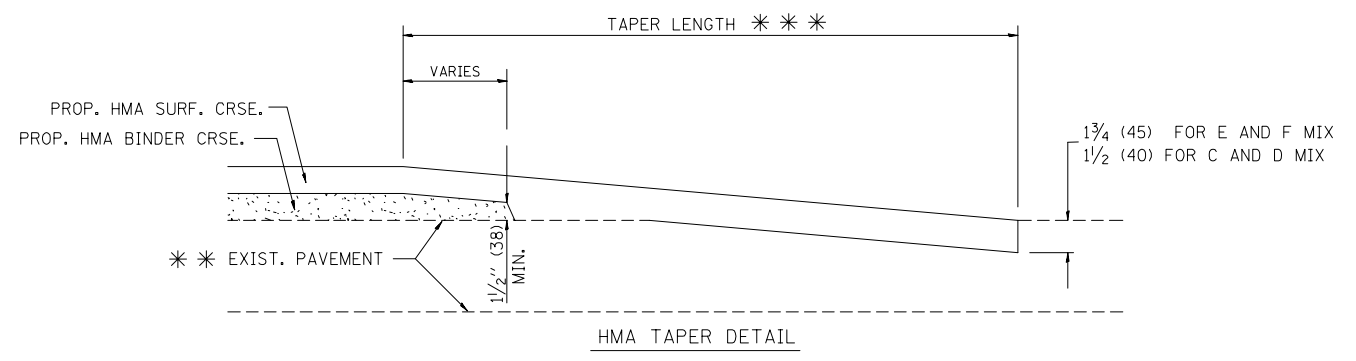
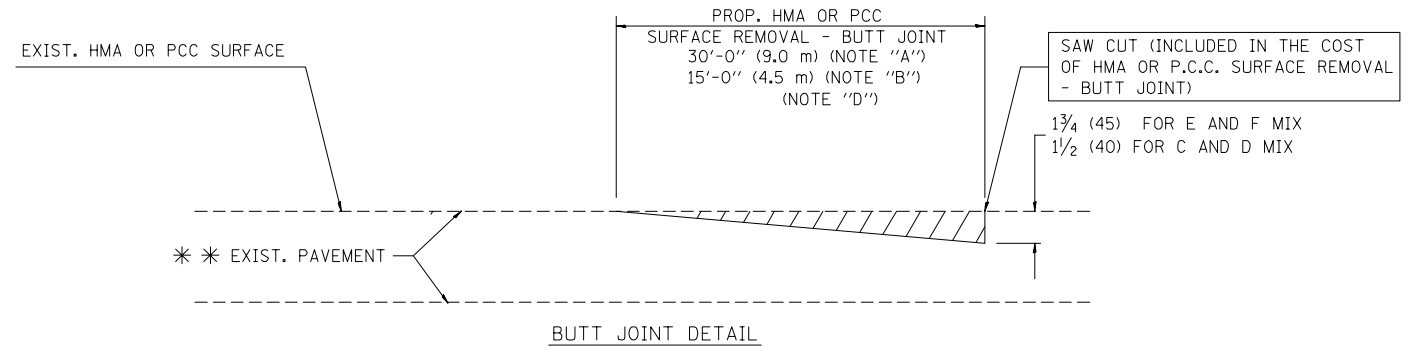


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

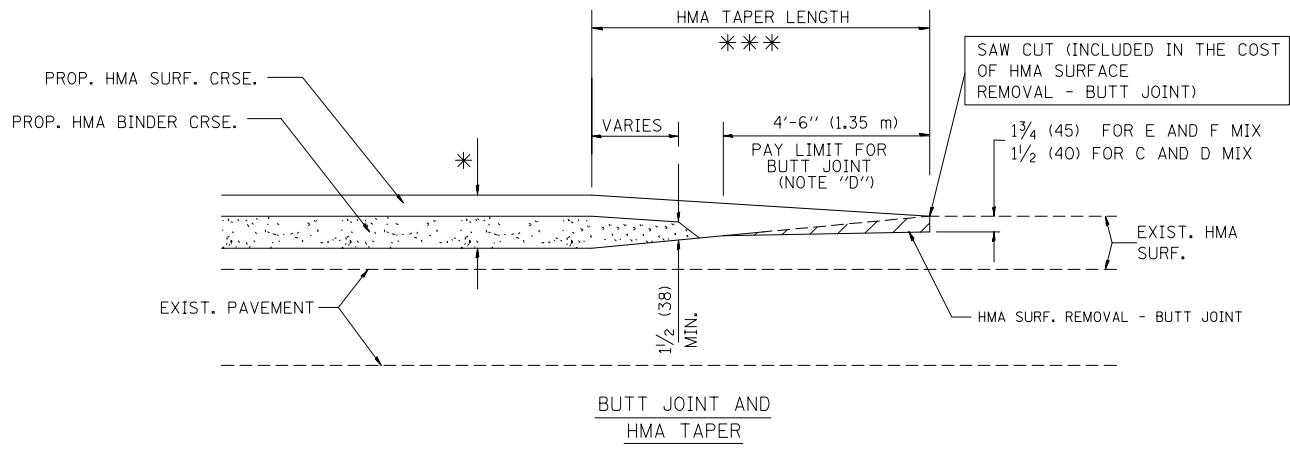
NOTES

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

BASIS OF PAYMENT:

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

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = 15323-DTLS-01 - B032

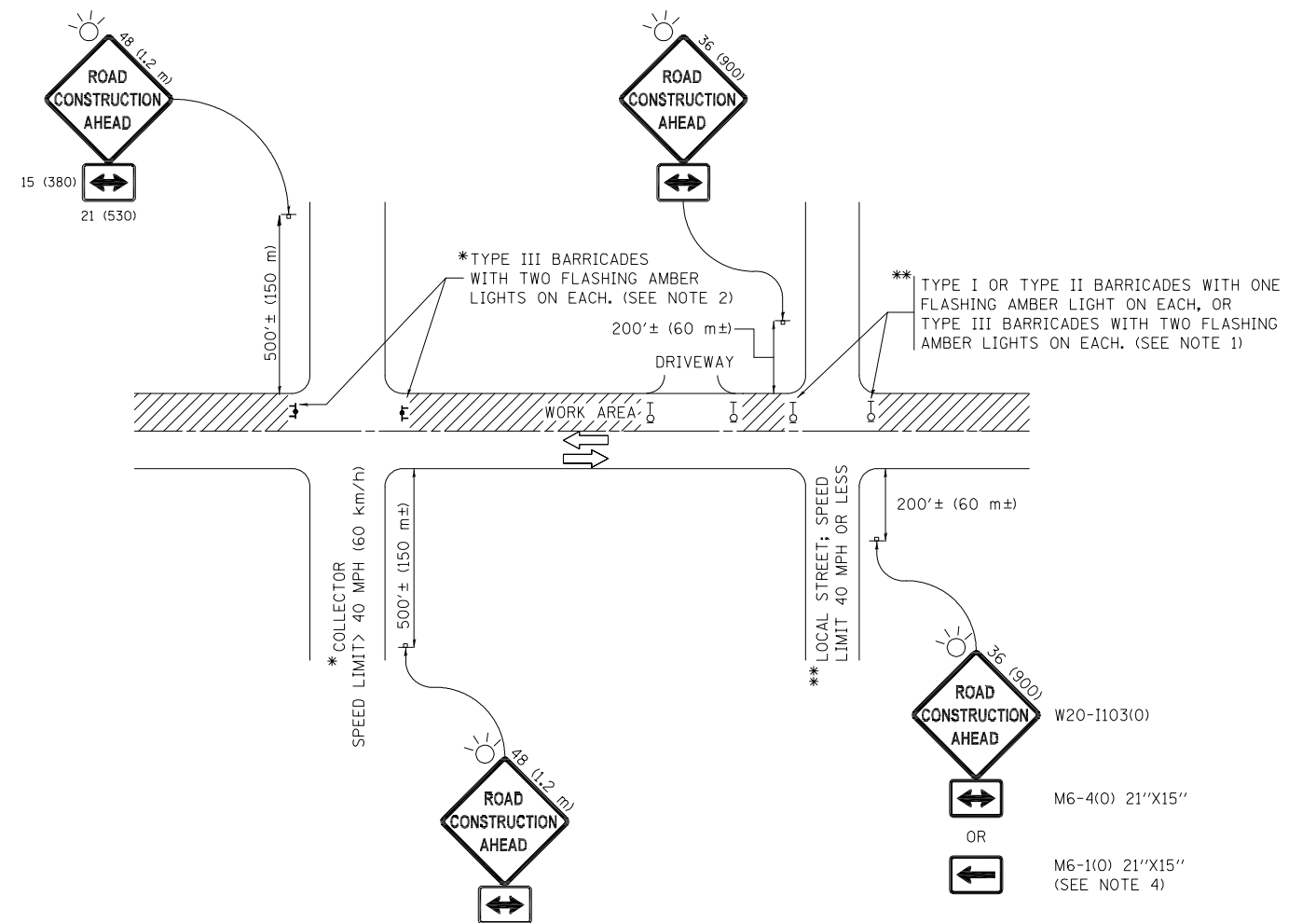
USER NAME = gogliobt	DESIGNED -- M. DE YONG	REVISED -- R. SHAH 10-25-94
	CHECKED --	REVISED -- A. ABBAS 03-21-97
PLOT SCALE = 50.0000' / IN.	DRAWN --	REVISED -- M. GOMEZ 04-06-01
PLOT DATE = 1/4/2008	CHECKED -- 06-13-90	REVISED -- R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 70 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	70
BD400-05 BD32		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = 15323-DTLS-01 - TC10	USER NAME = f00temj	DESIGNED — L.H.A.	REVISED — A. HOUSEH 10-15-96
		CHECKED —	REVISED — T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000' / in.	DRAWN —	REVISED — A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	CHECKED — 06-89	REVISED — A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE SHEET NO. 71 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	71
TC-10			CONTRACT NO. 61D42	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

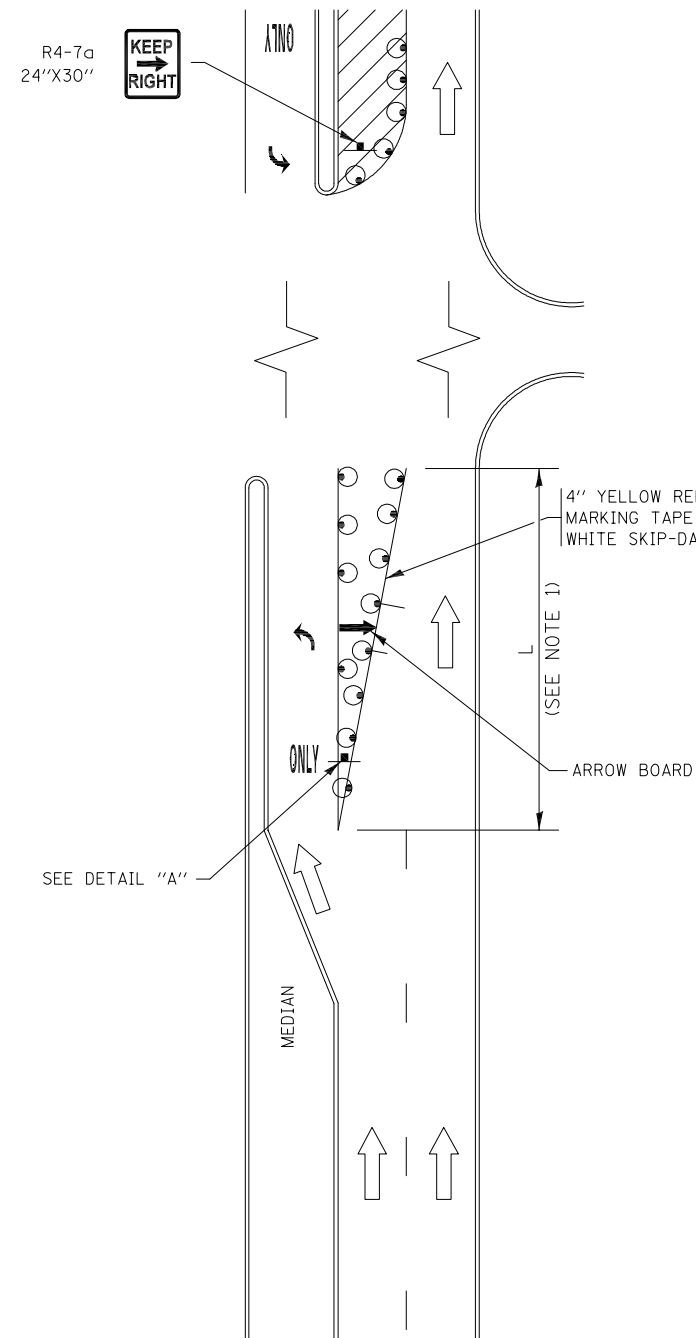


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PRE REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

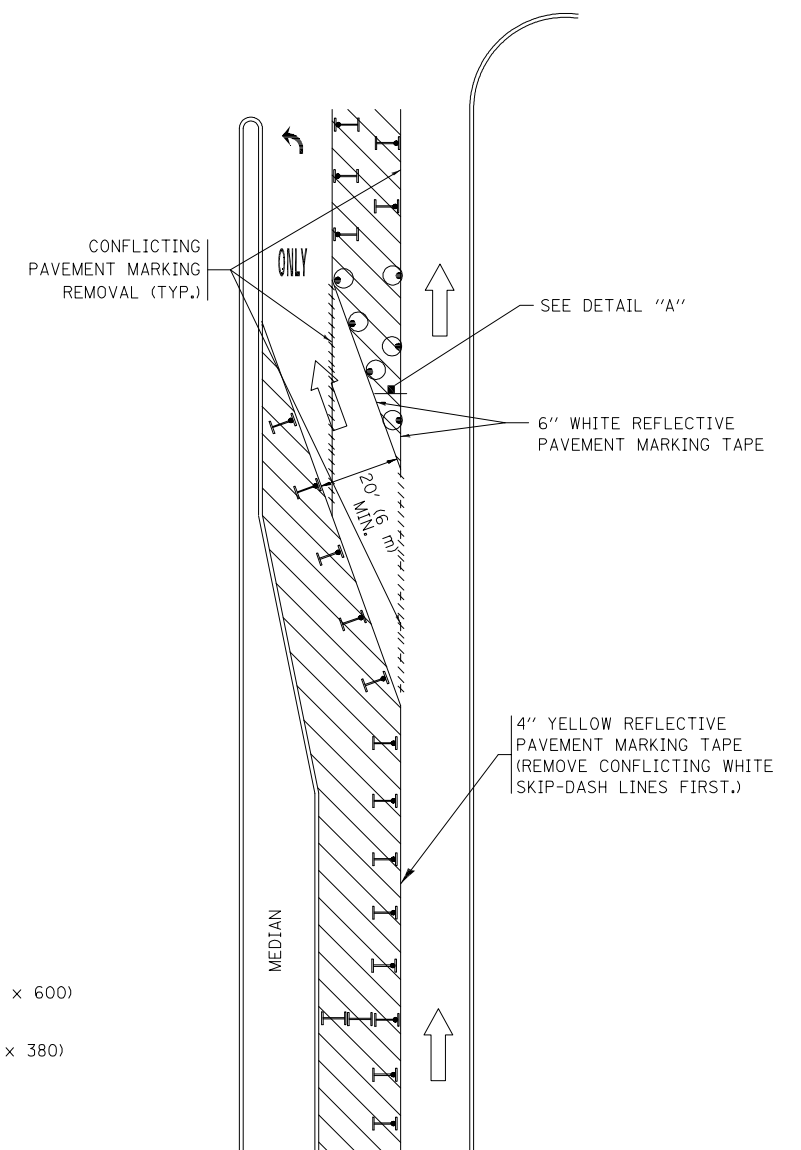
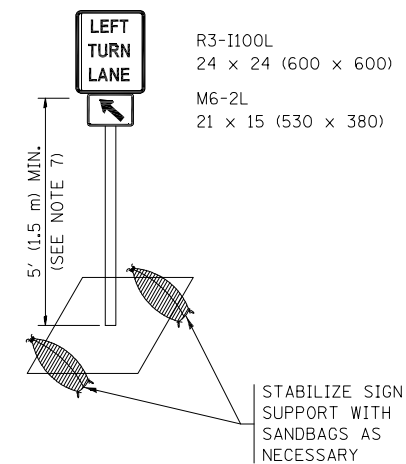


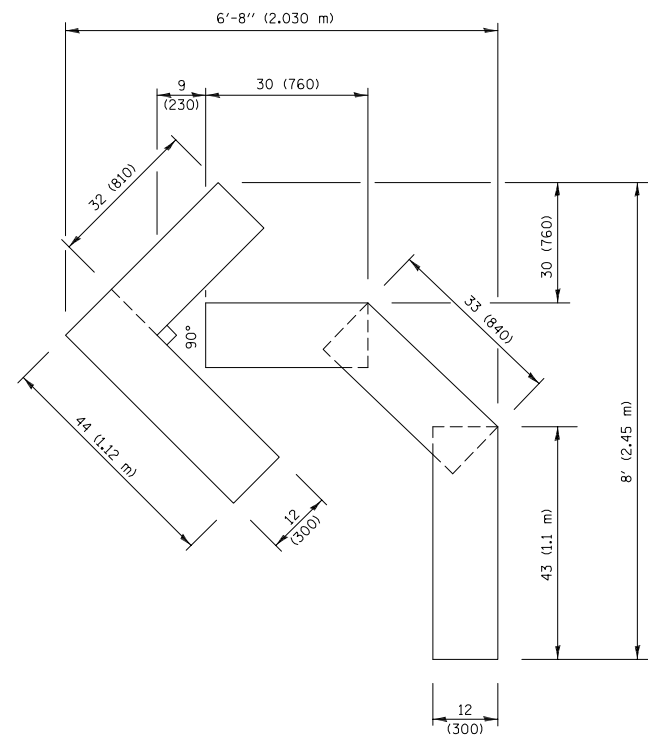
FIGURE 2



DETAIL A

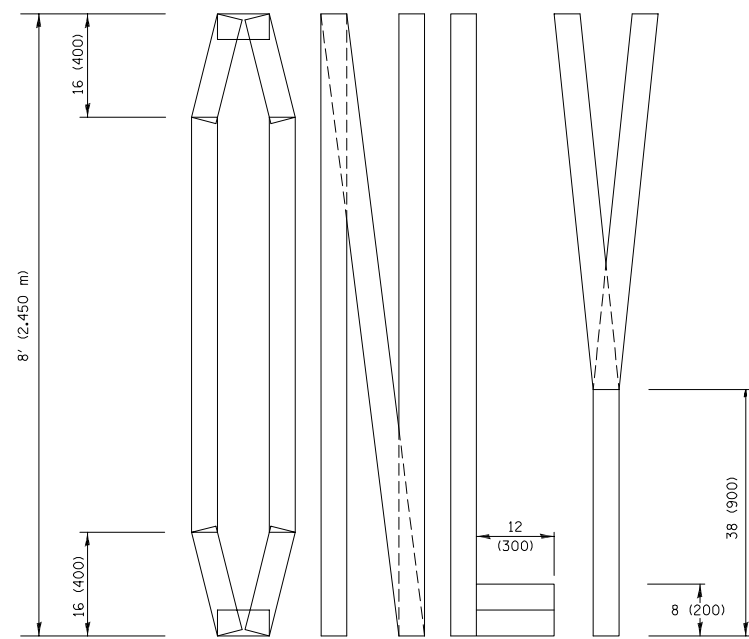
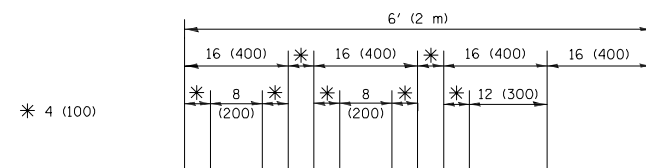
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = 15323-DTLS-01 - TC14	USER NAME = footemj	DESIGNED -- R. RAMMACHER 09-08-94	REVISED -- R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -- A. HOUSEH 11-07-95	REVISED -- . SCHUETZE 07-01-13	0876			12-00023-00-WR	COOK	87	73	
	PLOT SCALE = 50.0000 / 1in.	DRAWN -- A. HOUSEH 10-12-96	REVISED -- . SCHUETZE 09-15-16			TC-14		CONTRACT NO. 61D42		
	PLOT DATE = 9/15/2016	CHECKED -- R. RAMMACHER 01-06-00	REVISED --			SCALE: NONE		SHEET NO. 73 OF 87 SHEETS		STA. TO STA.
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



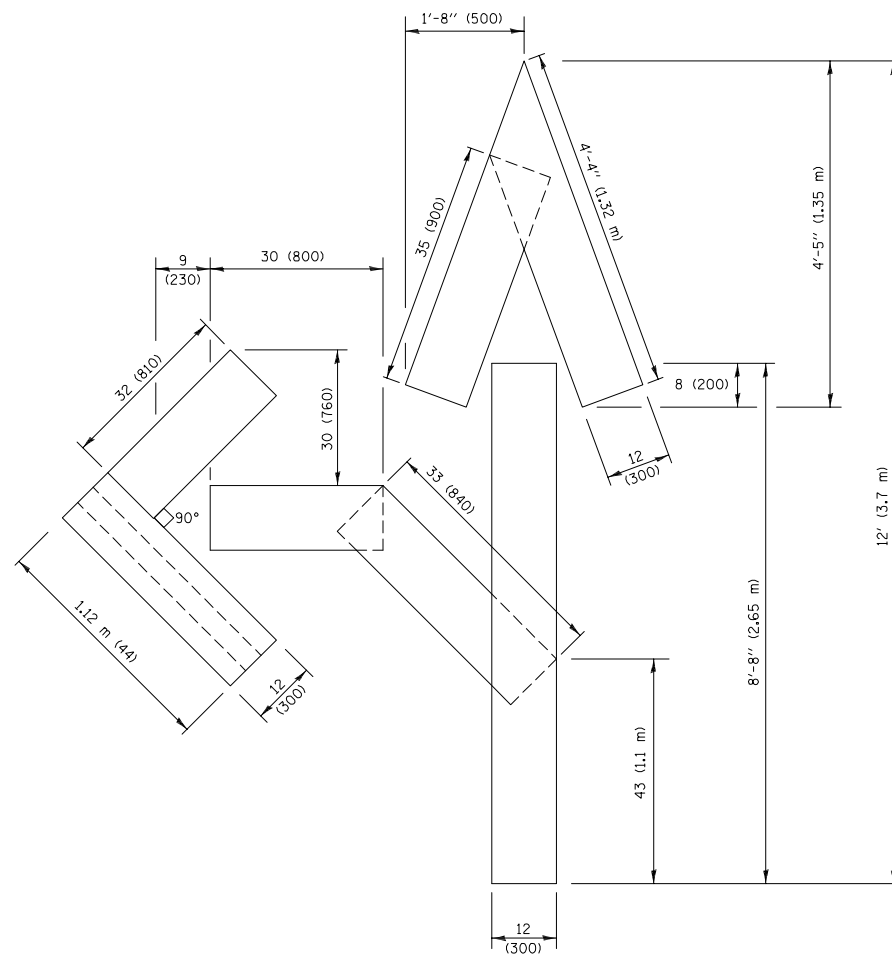
QUANTITY

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



QUANTITY

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

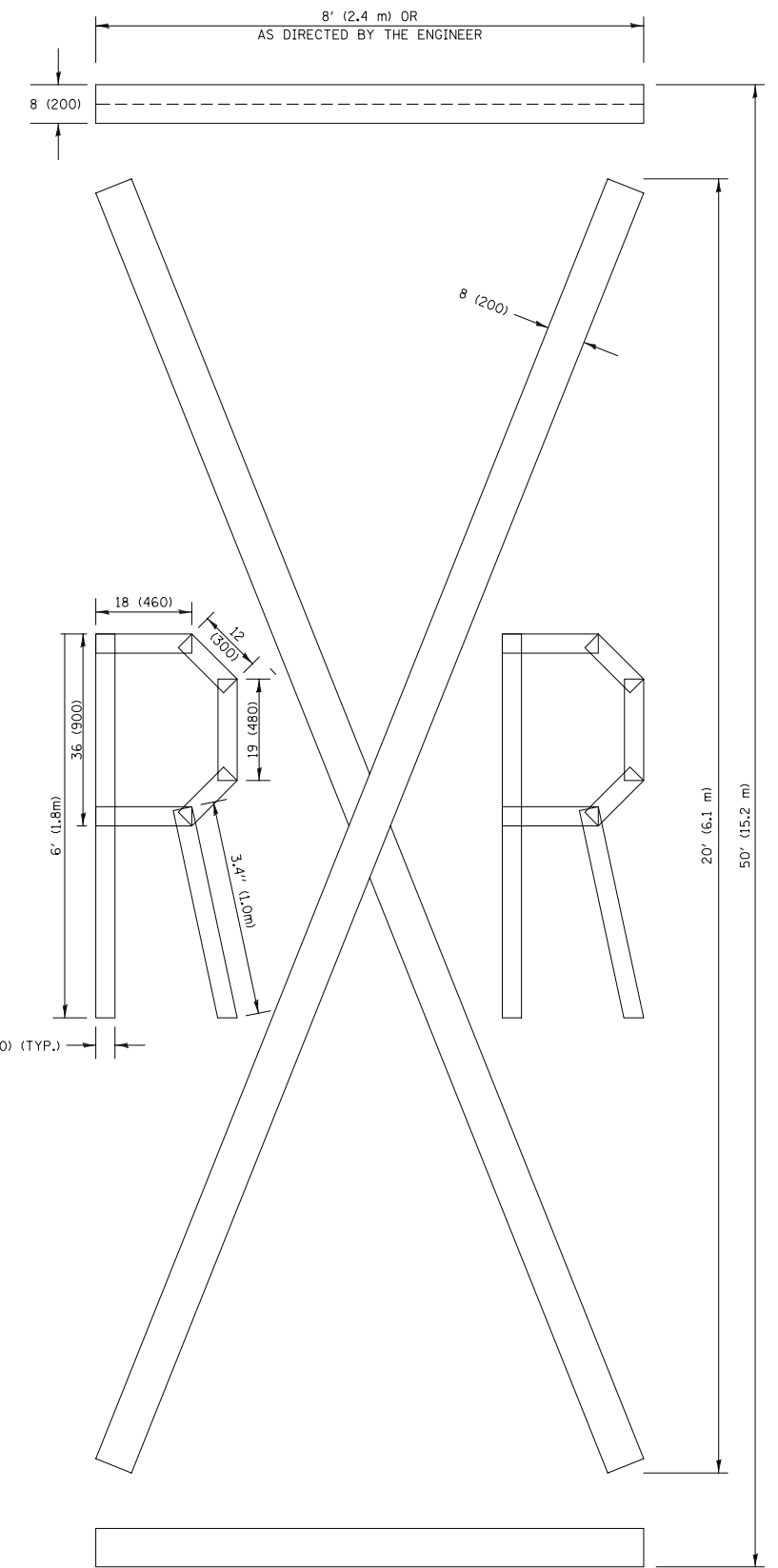


QUANTITY

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

NOTE:

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



QUANTITY

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

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

FILE NAME = 15323-DTLS-01 - TC16

USER NAME = f00temj

DESIGNED -

REVISED -T. RAMMACHER 03-02-98

CHECKED -

DESIGNED -

REVISED -E. GOMEZ 08-28-00

PLOT SCALE = 50.0000' / 1in.

DRAWN -

REVISED -E. GOMEZ 08-28-00

PLOT DATE = 9/15/2016

CHECKED - 09-18-94

REVISED -A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE

SHEET NO. 74 OF 87 SHEETS

STA.

TO STA.

F.A.P. RTE.

0876

SECTION

12-00023-00-WR

COUNTY

COOK

TOTAL SHEETS

87

SHEET NO.

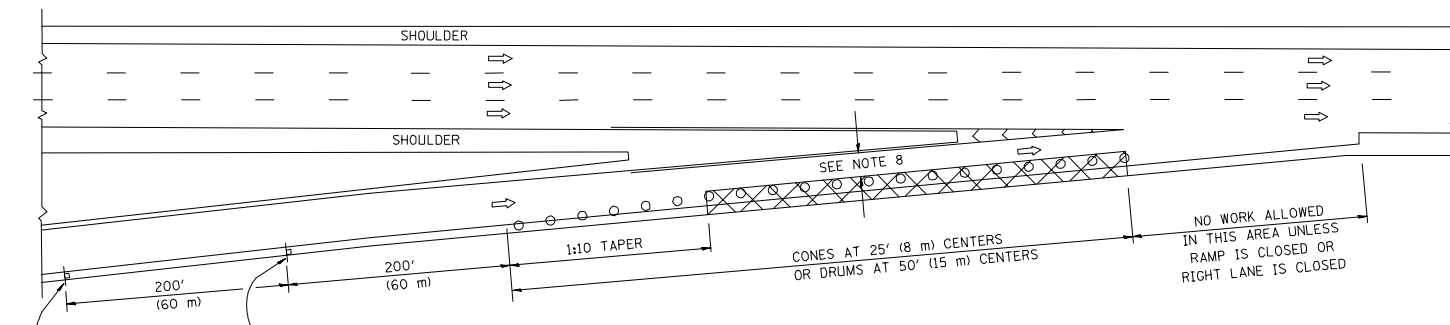
74

TC-16

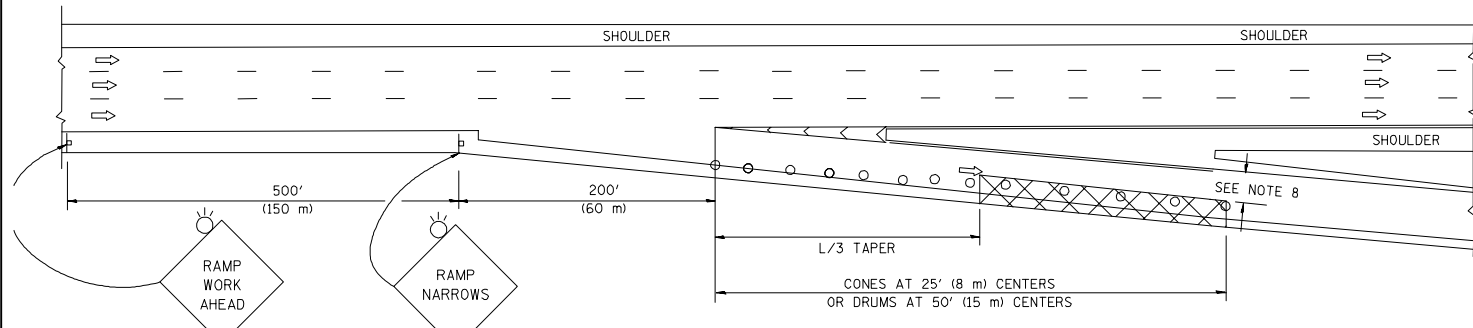
CONTRACT NO. 61D42

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)

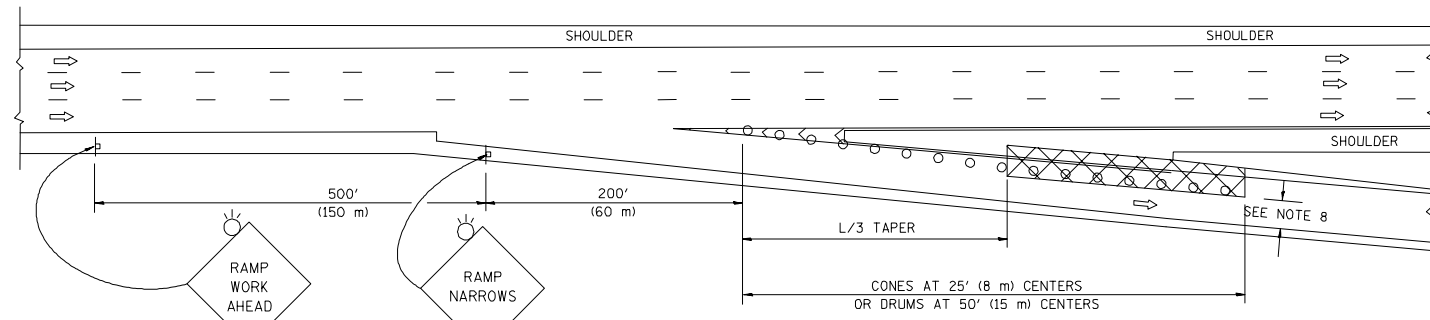
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

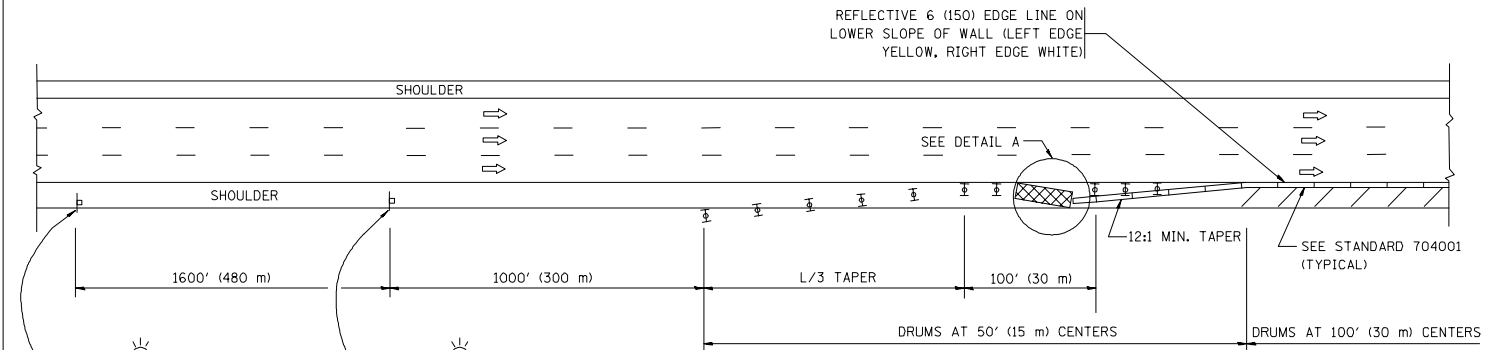
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

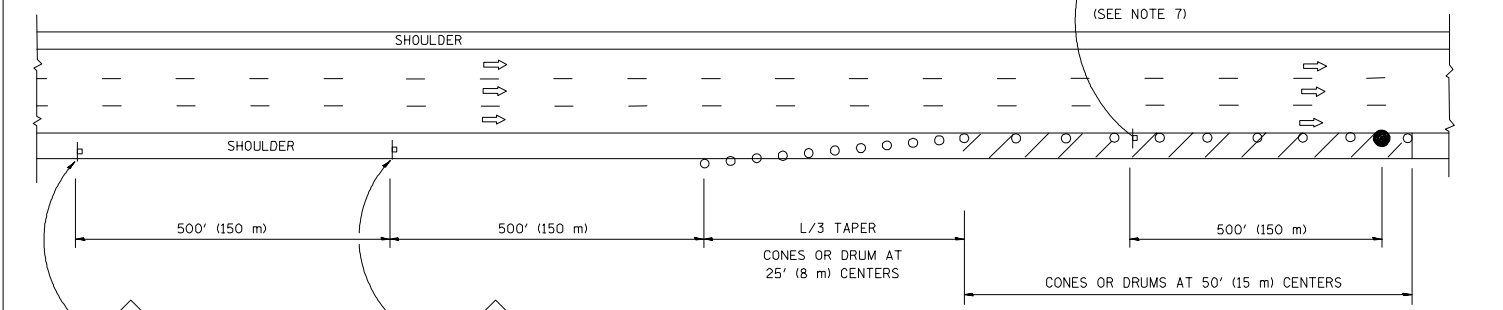
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH L=0.65(W)(S) L=(W)(S)
W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

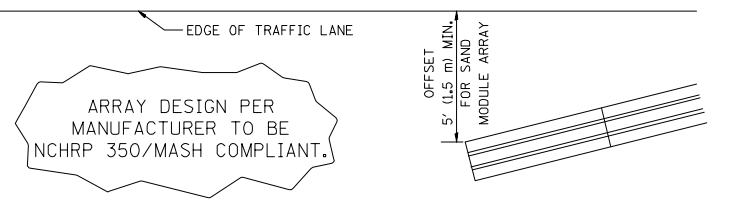


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCRACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

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

FILE NAME = 15323-DTLS-01 - TC17

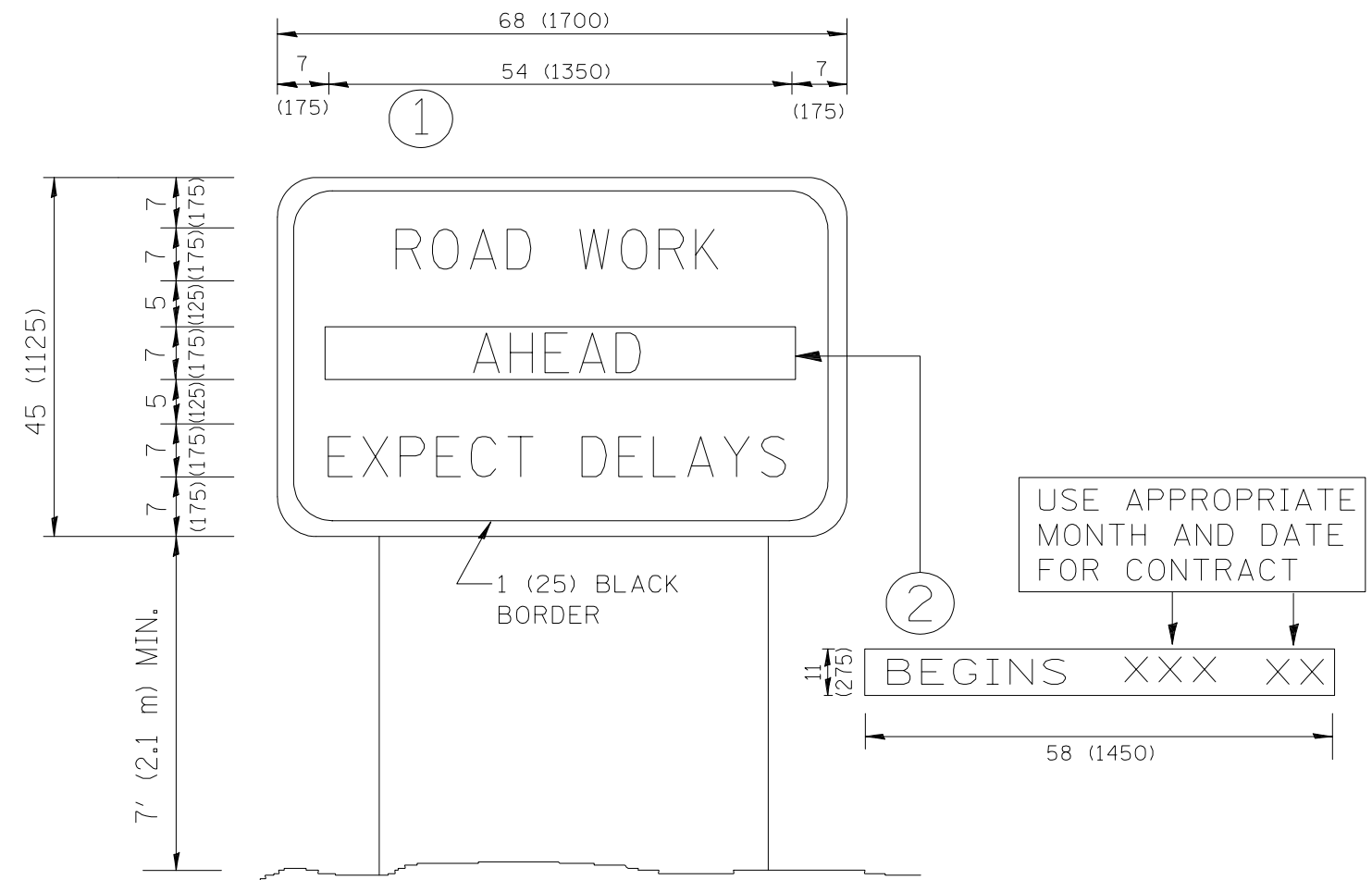
USER NAME = l@ys@	DESIGNED --	REVISED -- J.A.F. 12-06
	CHECKED -- D.W.S.	REVISED -- S.P.B. 01-07
PLOT SCALE = 100.0000' / in.	DRAWN --	REVISED -- S.P.B. 12-09
PLOT DATE = 4/17/2014	CHECKED -- 11-96	REVISED -- M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

SCALE: NONE SHEET NO. 75 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	75
TC-17		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		



NOTES:

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

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

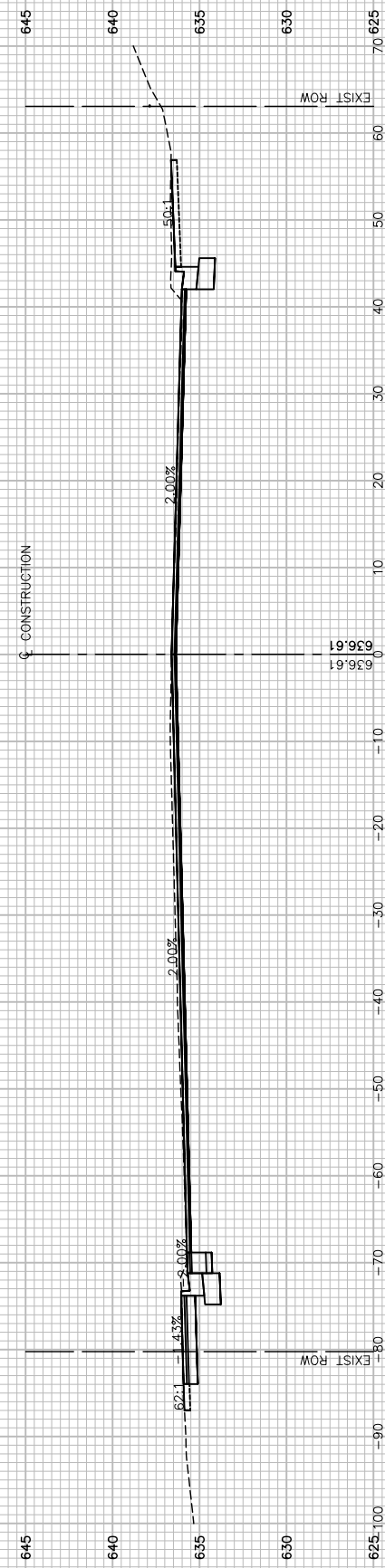
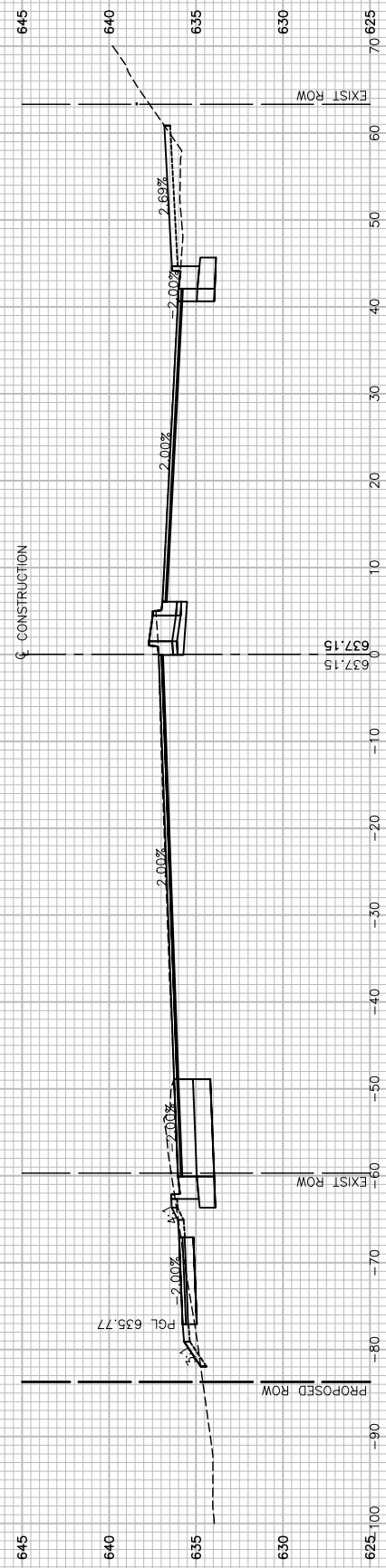
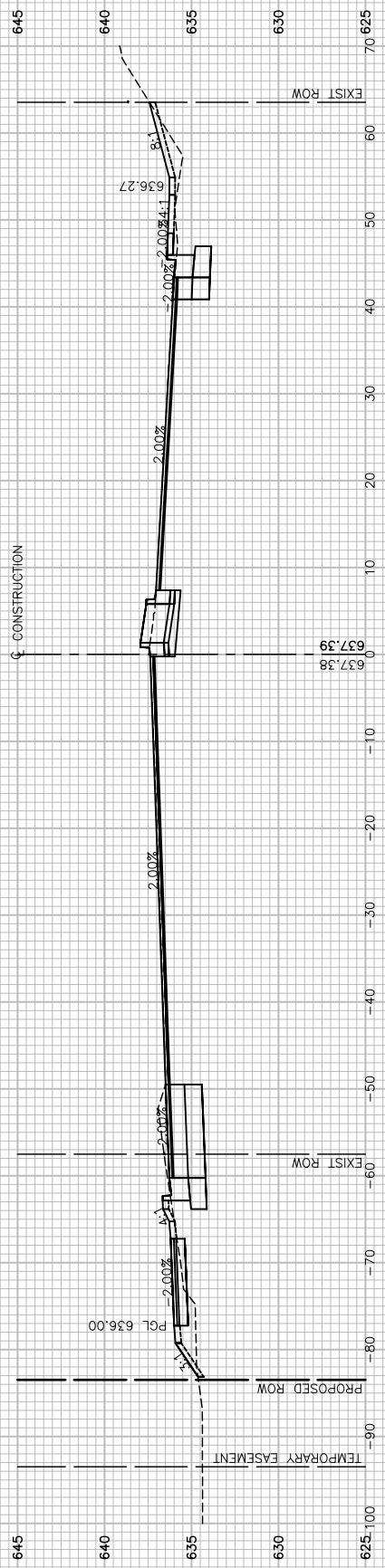
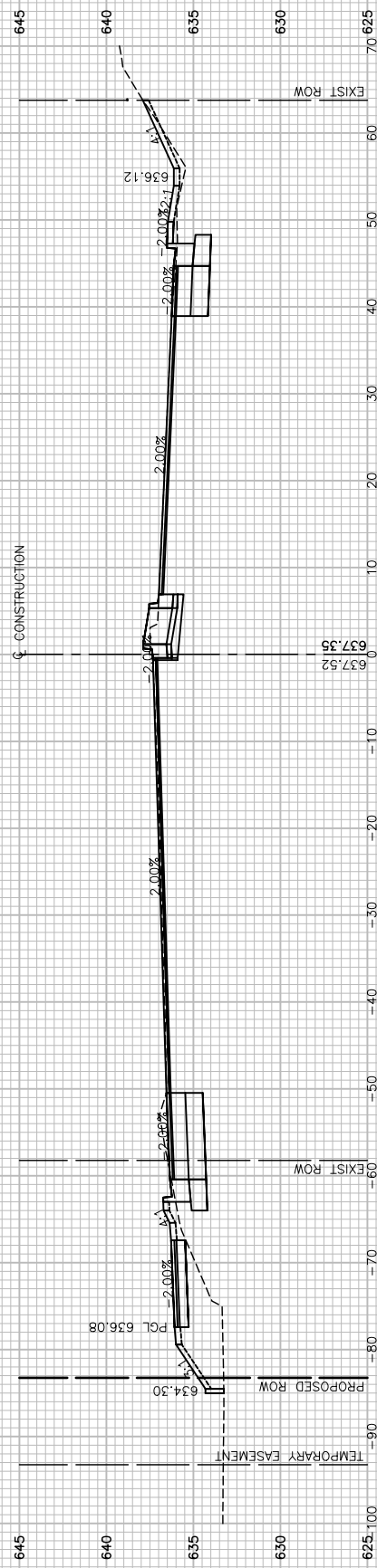
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		CHECKED —	REVISED — R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	DRAWN —	REVISED —, RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	CHECKED —	REVISED — C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

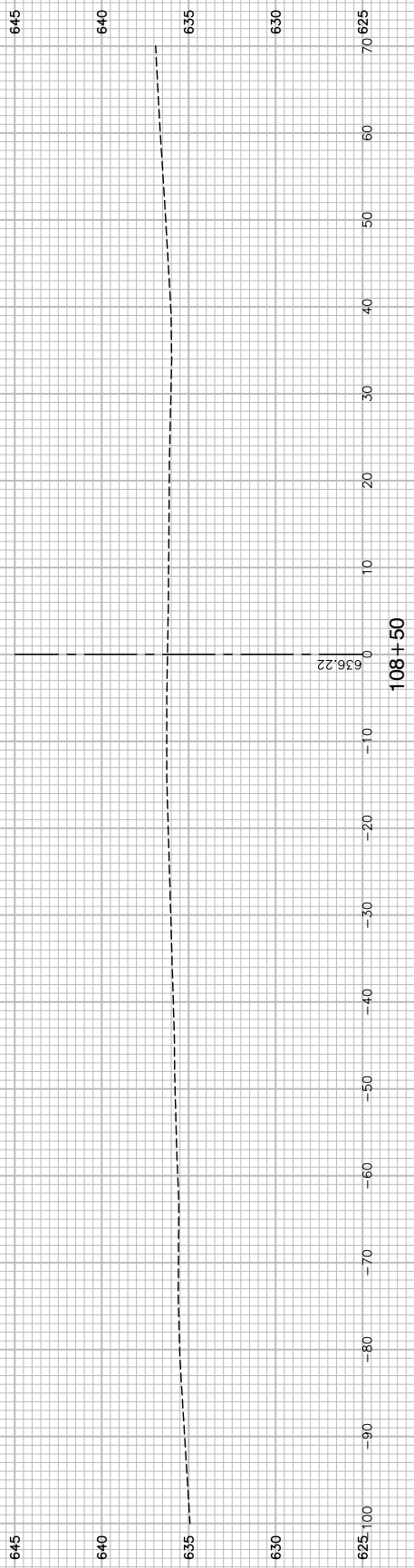
ARTERIAL ROAD
INFORMATION SIGN

SCALE: NONE SHEET NO. 76 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	76
TC-22		CONTRACT NO. 61D42		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-4003(039)		



NOTE: PROPOSED WEST ROW 107.67' WEST OF C. CONSTRUCTION. F=0.0



FILE NAME = 15323-XSCT-01 - IDOT_X(1)

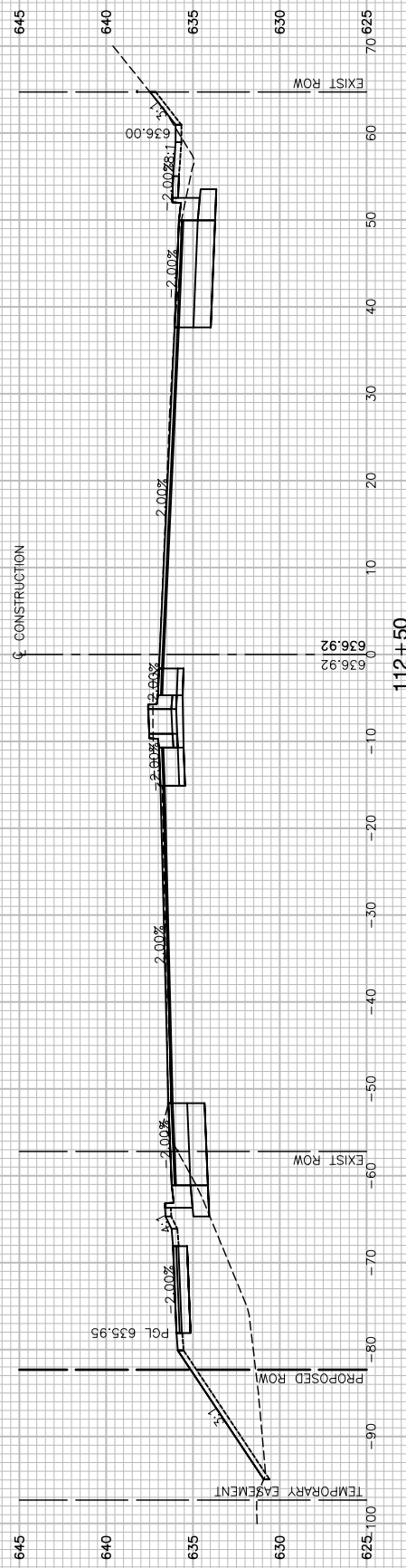
USER NAME =	DESIGNED — SDK	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

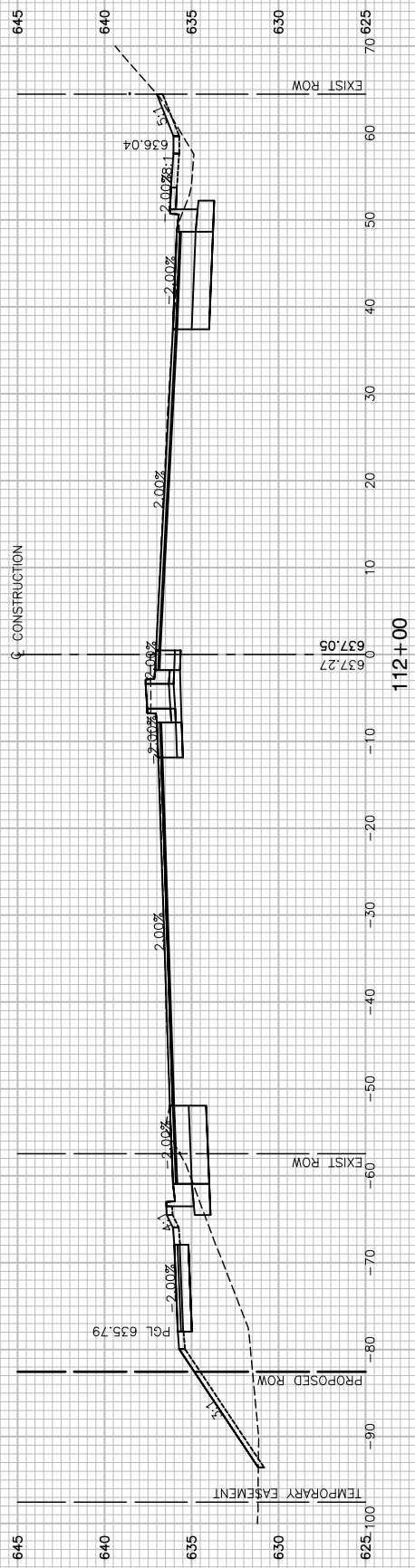
IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 77 OF 87 SHEETS STA. TO STA.

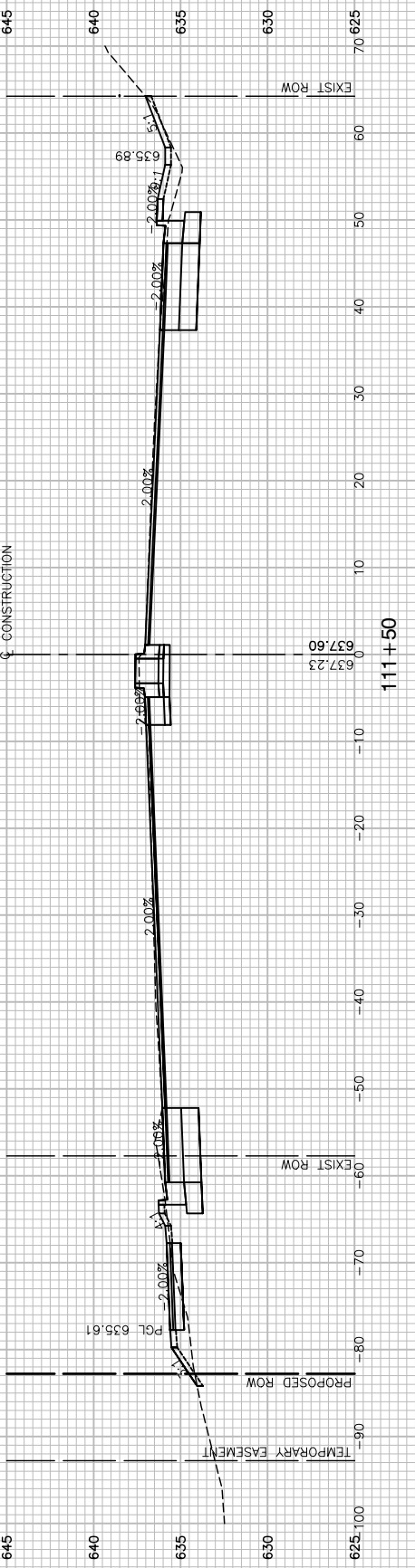
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	77
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



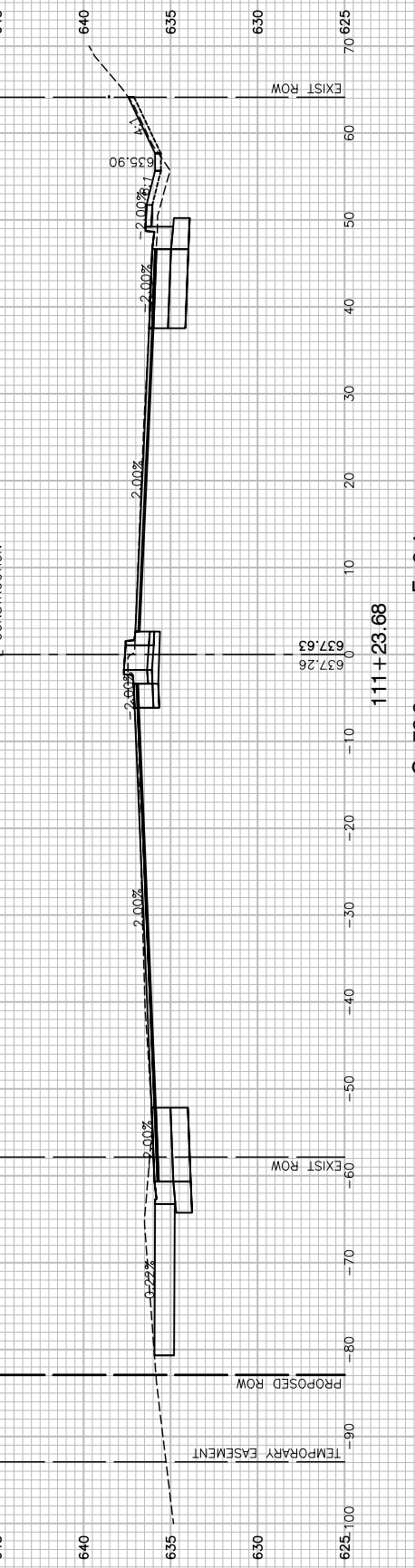
C=49.7
F=78.7



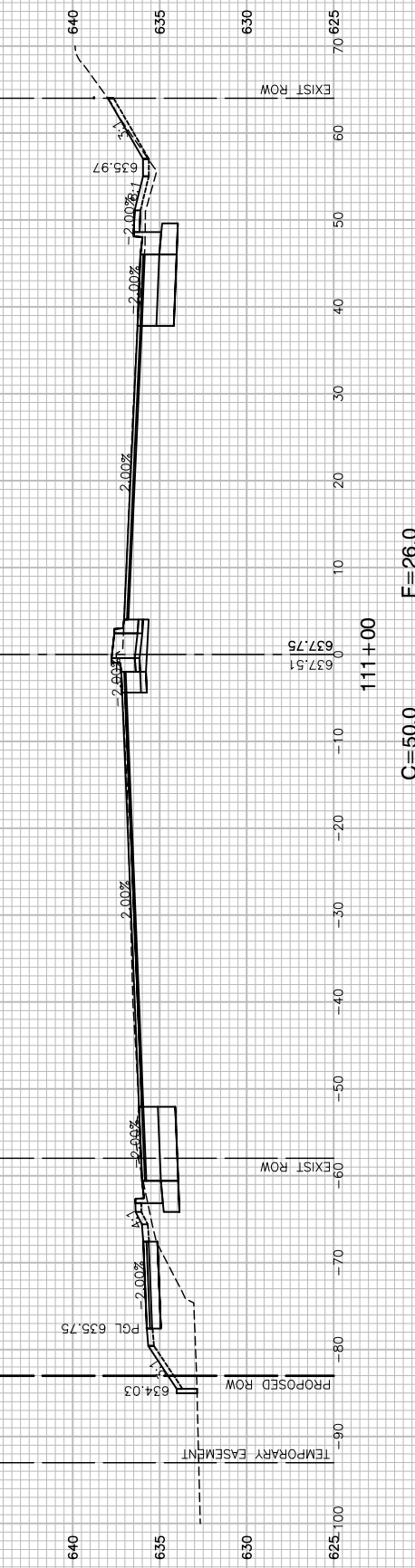
C=47.4
F=70.3



C=54.9
F=8.1



C=78.3
F=3.4



C=50.0
F=26.0

FILE NAME = 15323-XSCT-01 - IDOT_X(12)

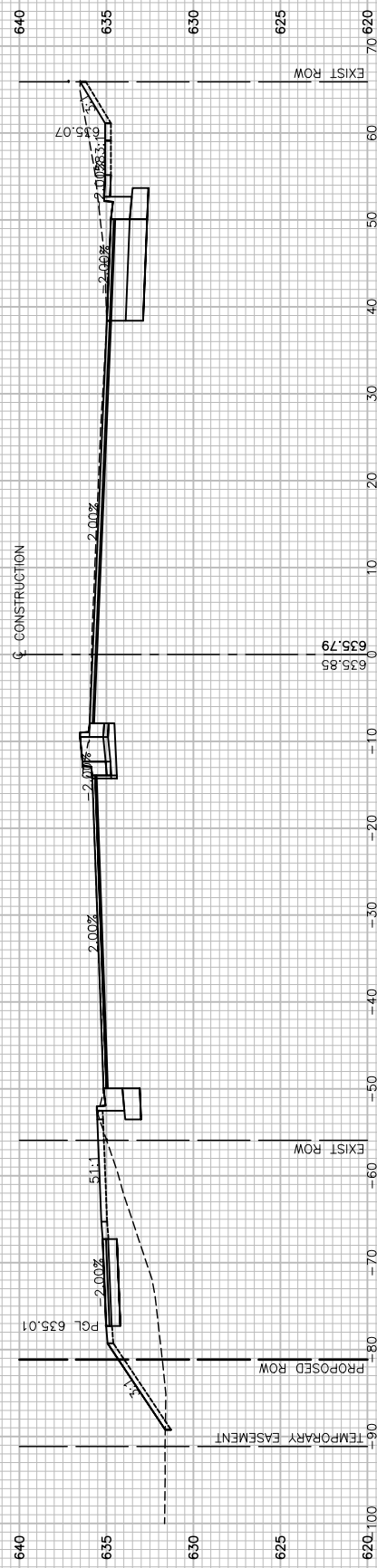
USER NAME =	DESIGNED - SDK	REVISED -
CHECKED - WPD	REVISOR -	REVISED -
PLOT SCALE =	DRAWN - ACAD	REVISED -
PLOT DATE = 06-16-17	CHECKED - ACAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

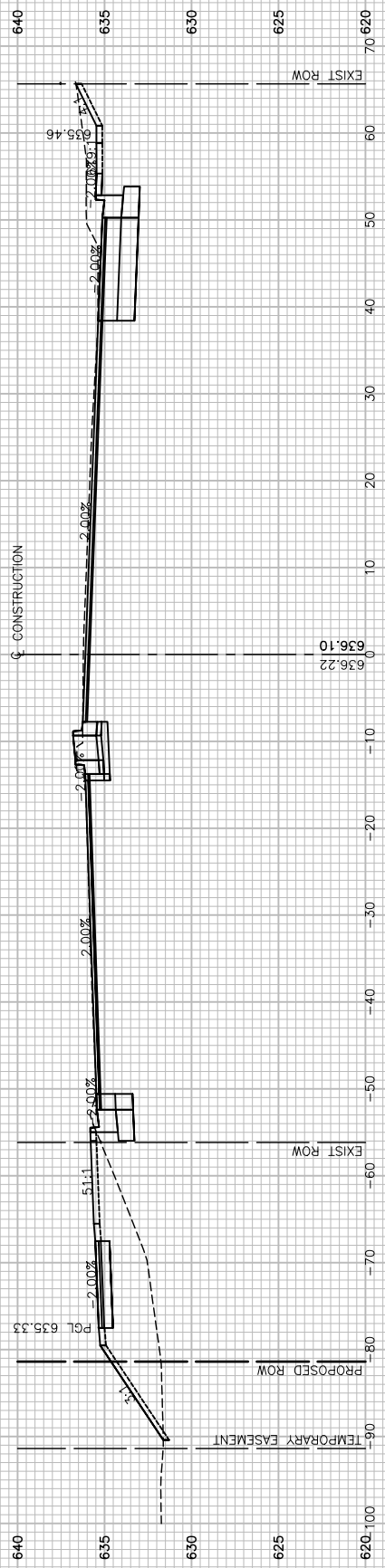
IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 78 OF 87 SHEETS STA. TO STA.

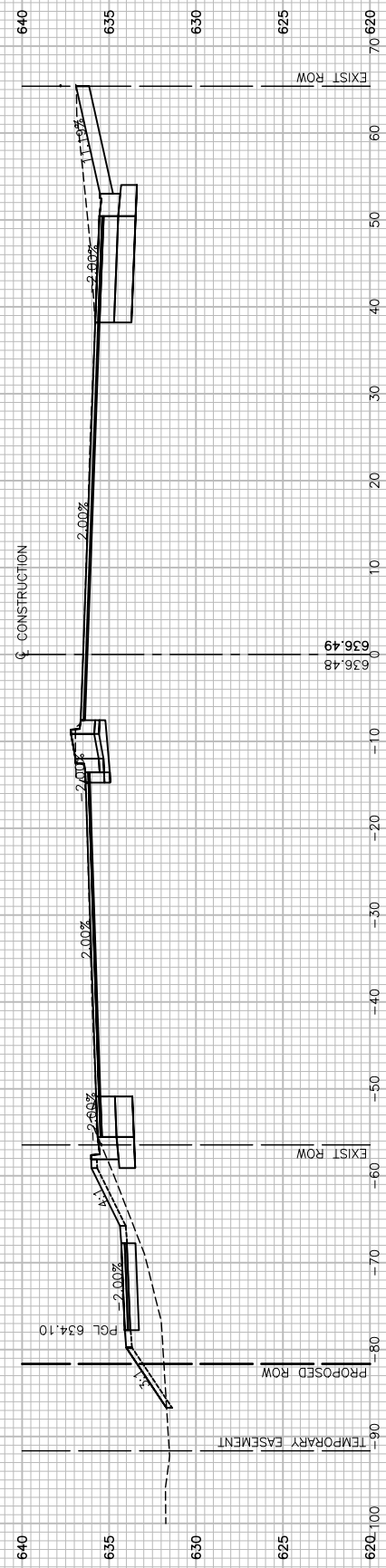
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	78
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



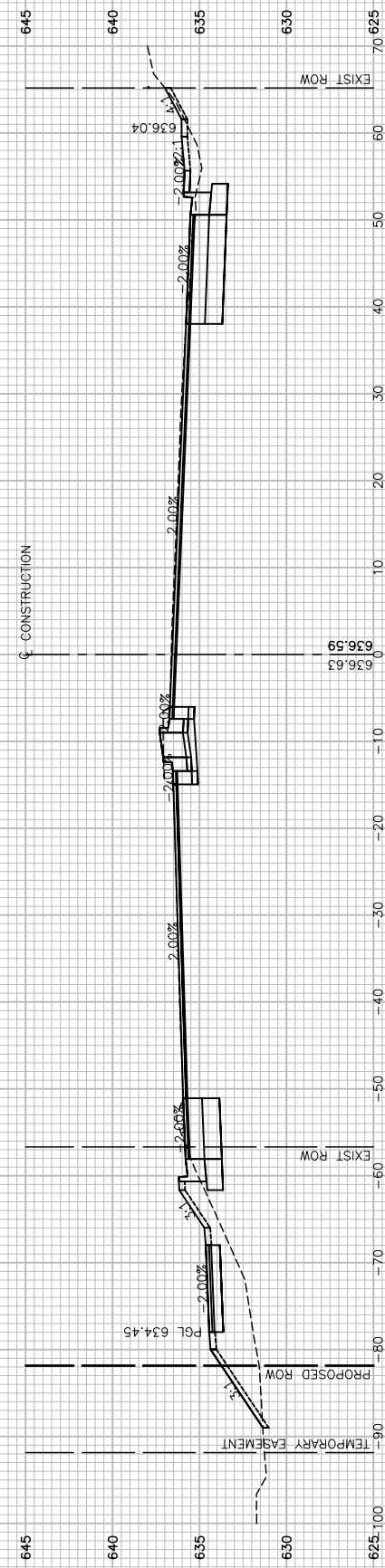
C=58.8
F=47.7



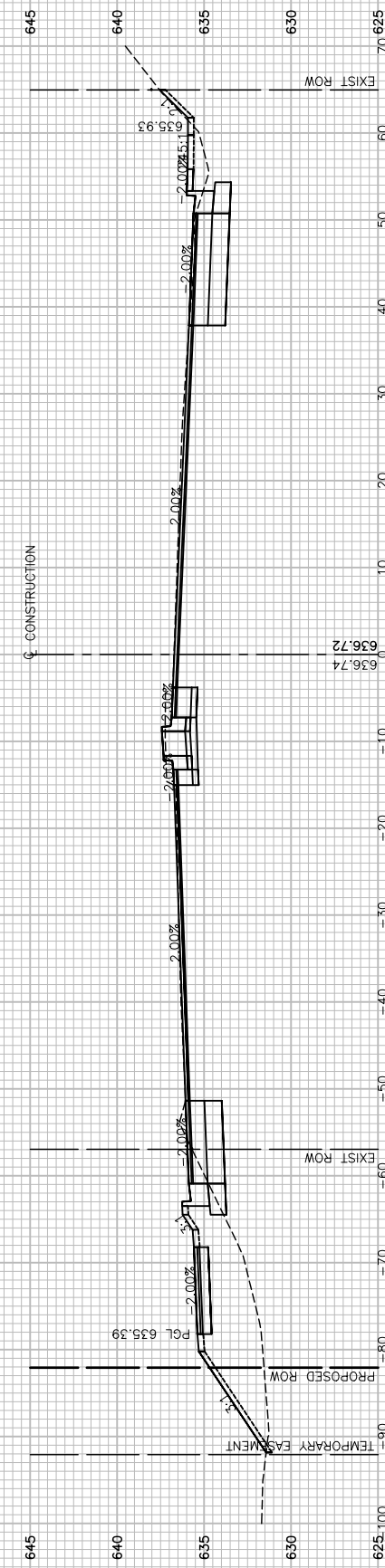
C=61.4
F=58.3



C=70.5
F=23.6



C=52.4
F=37.2



C=53.3
F=62.7

FILE NAME = 15323-XSCT-01 - IDOT_X(3)

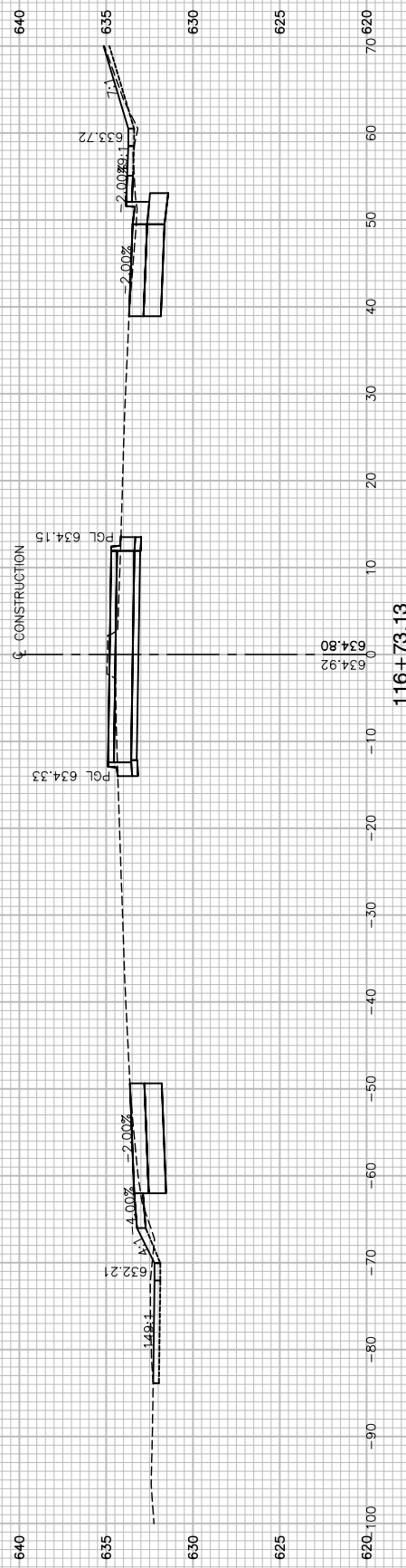
USER NAME =	DESIGNED - SDK	REVISED -
CHECKED - WPD	REVISIONS -	
PLOT SCALE =	DRAWN - ACAD	REVISED -
PLOT DATE = 06-16-17	CHECKED - ACAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

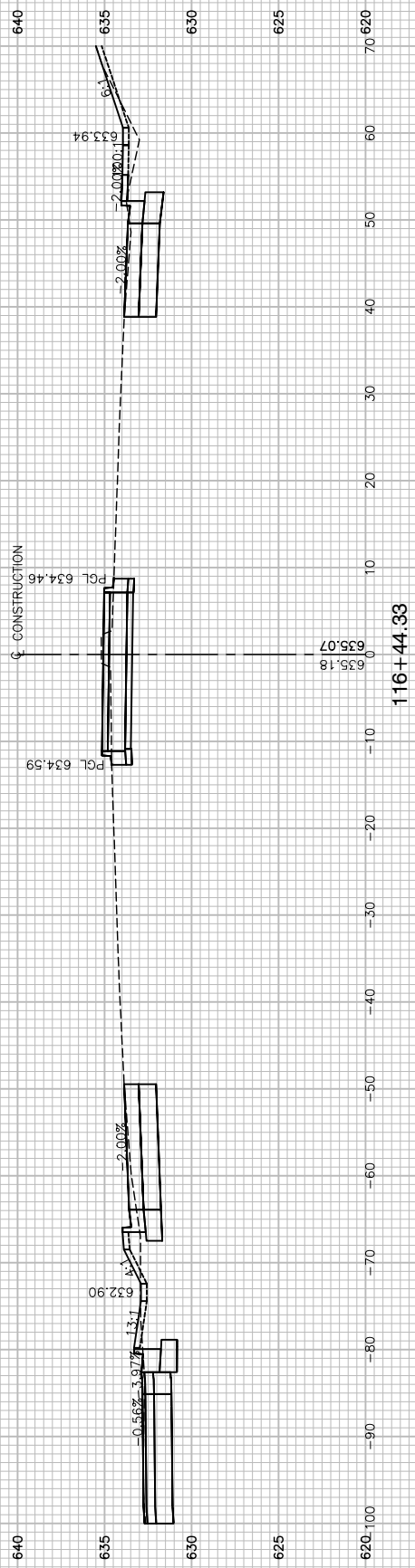
IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 79 OF 87 SHEETS STA. TO STA.

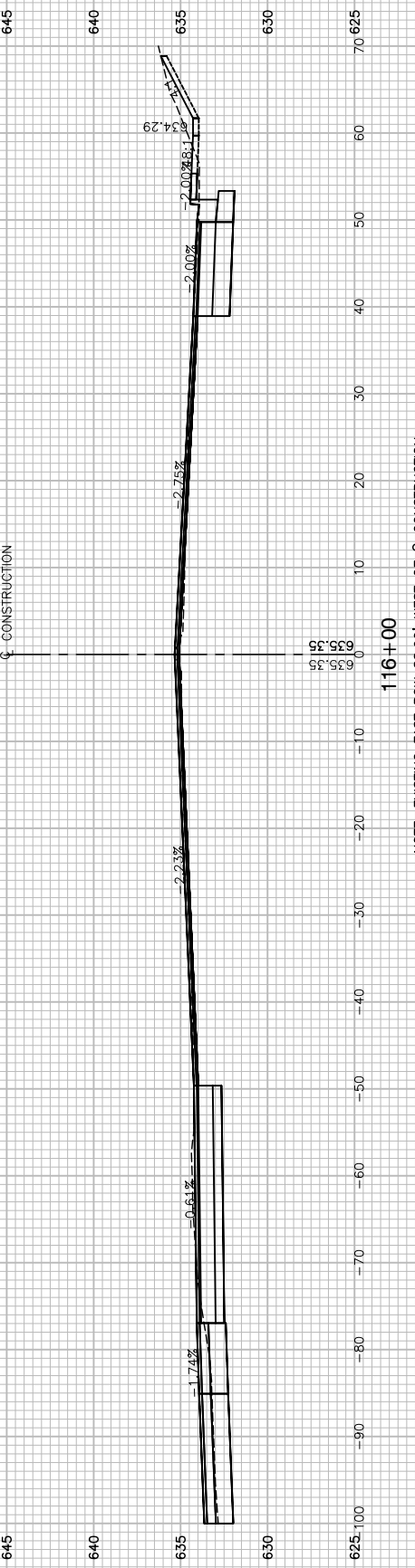
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	79
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



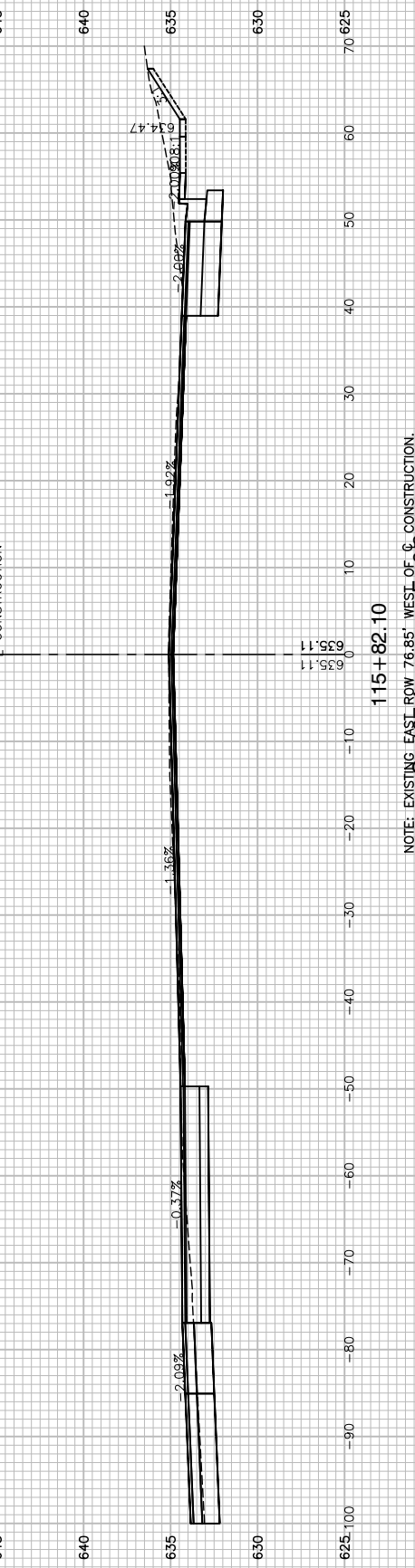
NOTE: EXISTING WEST ROW 115.49' WEST OF C-CONSTRUCTION.
EXISTING EAST ROW 135.02' EAST OF C-CONSTRUCTION.



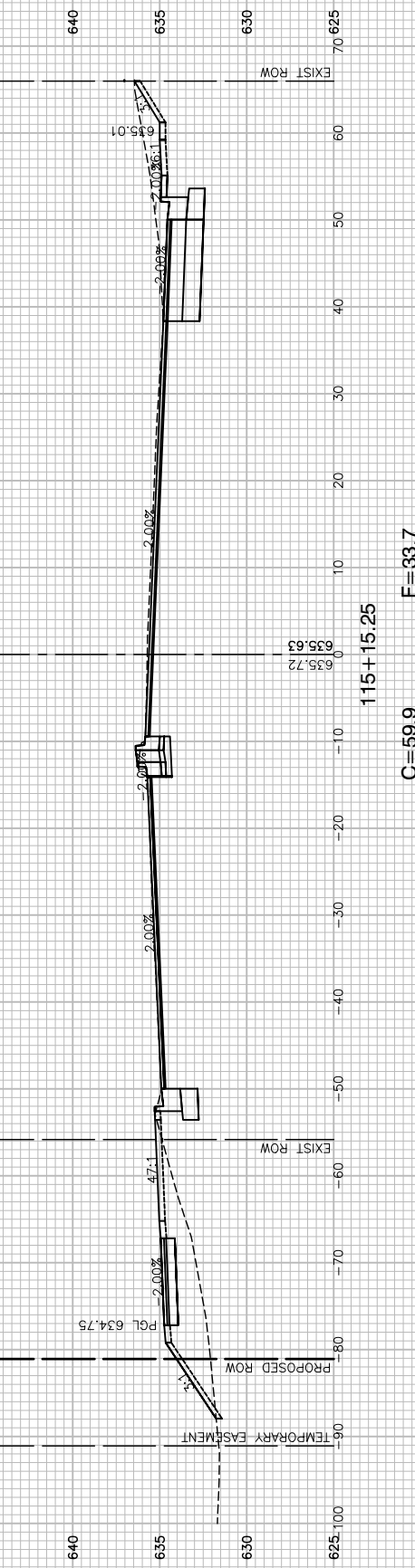
NOTE: EXISTING WEST ROW 115.61' WEST OF C-CONSTRUCTION.
EXISTING EAST ROW 120.01' EAST OF C-CONSTRUCTION.



NOTE: EXISTING EAST ROW 88.90' WEST OF C-CONSTRUCTION.
C=103.1 F=0.6



NOTE: EXISTING EAST ROW 76.85' WEST OF C-CONSTRUCTION.
C=107.4 F=0.0



C=59.9 F=33.7

FILE NAME = 15323-XSCT-01 - IDOT_X(14)

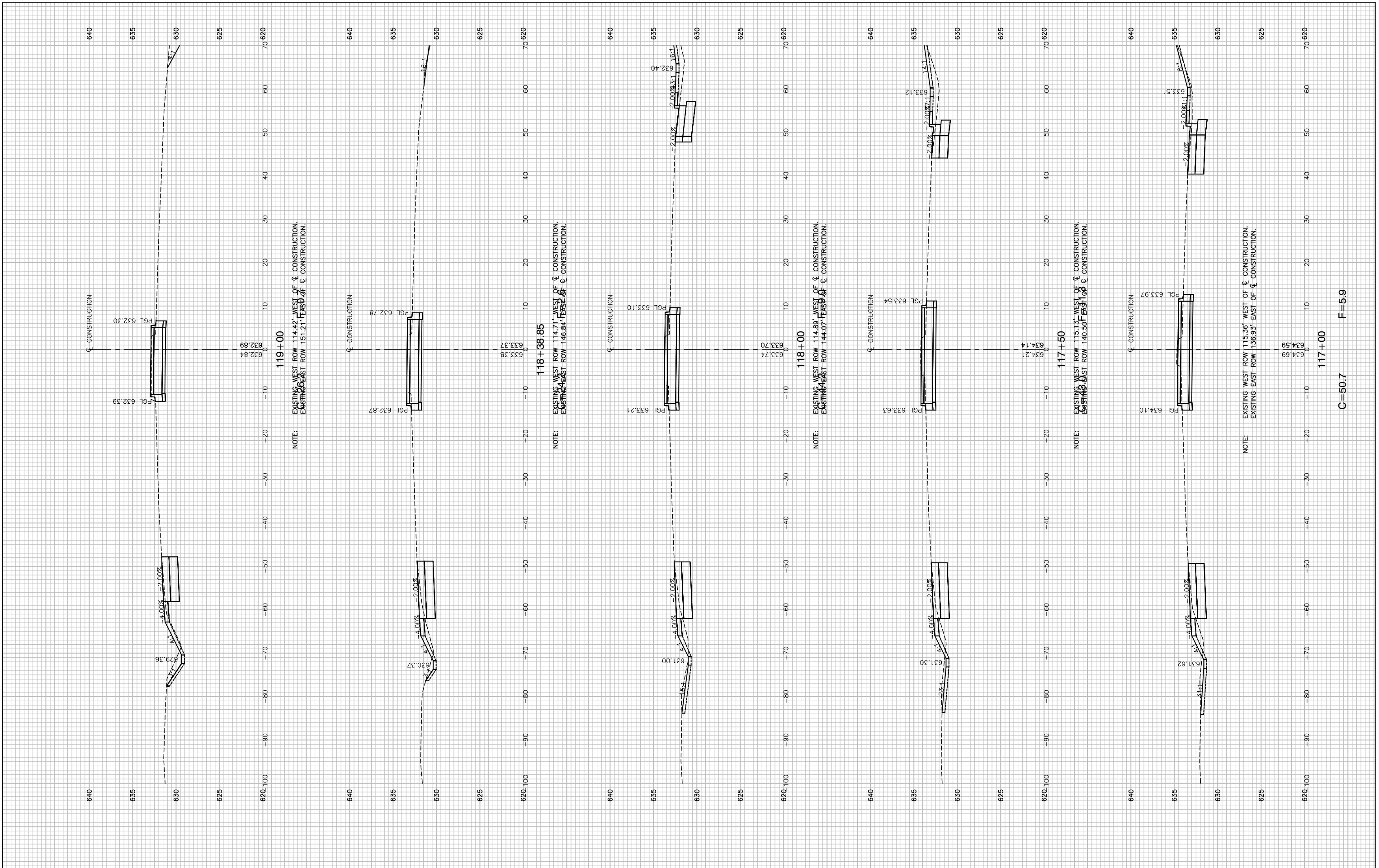
USER NAME =	DESIGNED - SDK	REVISED -
CHECKED - WPD	REVISED -	REVISED -
PLOT SCALE =	DRAWN - ACAD	REVISED -
PLOT DATE = 06-16-17	CHECKED - ACAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 80 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	80
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



FILE NAME = 15323.XSCT-01 - IDOT_X(15)	USER NAME =	DESIGNED — SDK	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

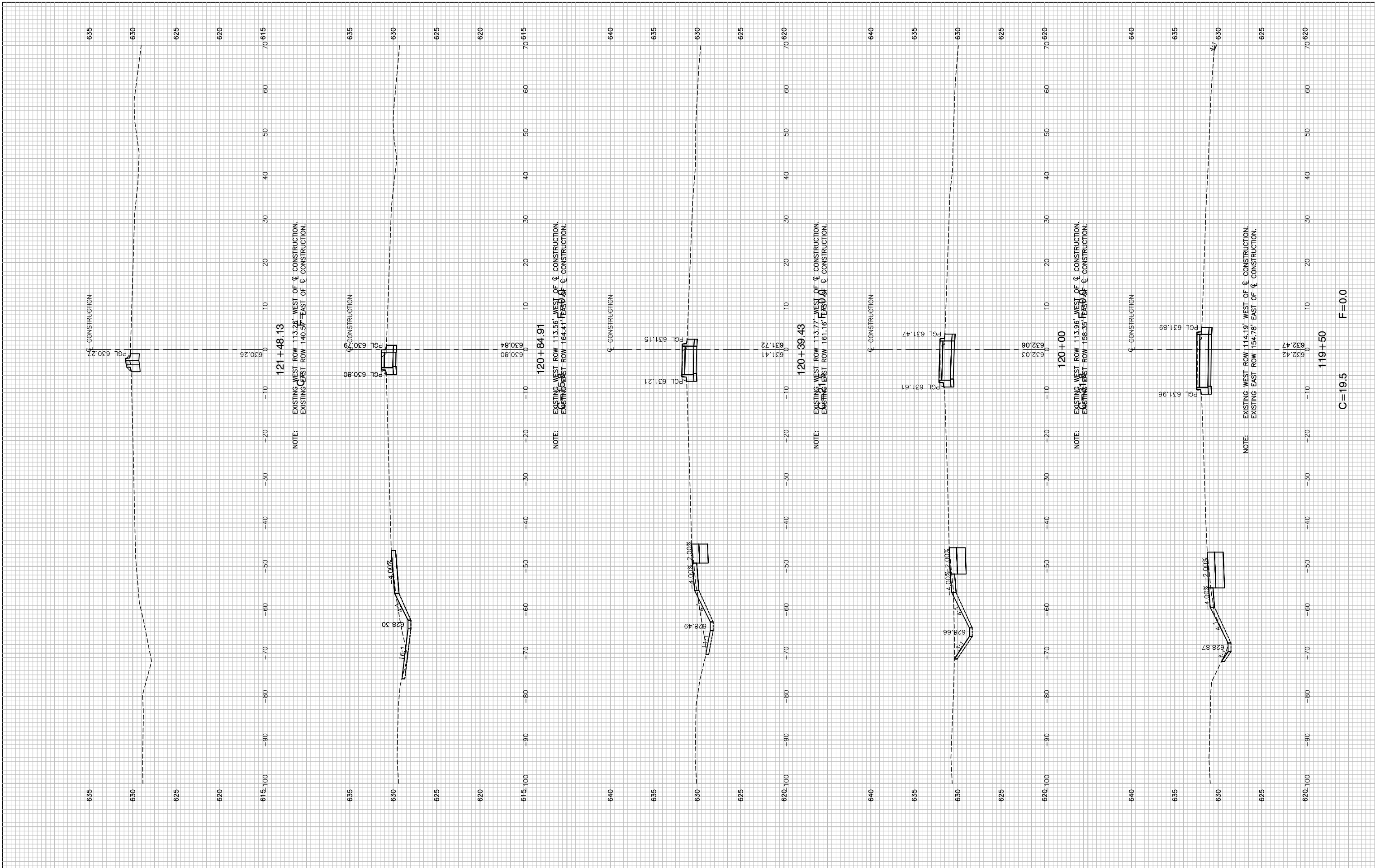
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 (HALSTED STREET)
 175TH STREET TO INTERCHANGE RAMP
 CROSS SECTIONS**

SCALE: SHEET NO. 81 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	81
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

C=50.7
 F=5.9



FILE NAME = 15323-XSCT-01 - IDOT_X(6)

USER NAME =
 DESIGNED — SDK
 CHECKED — WPD
 PLOT SCALE =
 DRAWN — ACAD
 PLOT DATE = 06-16-17
 CHECKED — ACAD

REVISED —
 REVISED —
 REVISED —
 REVISED —

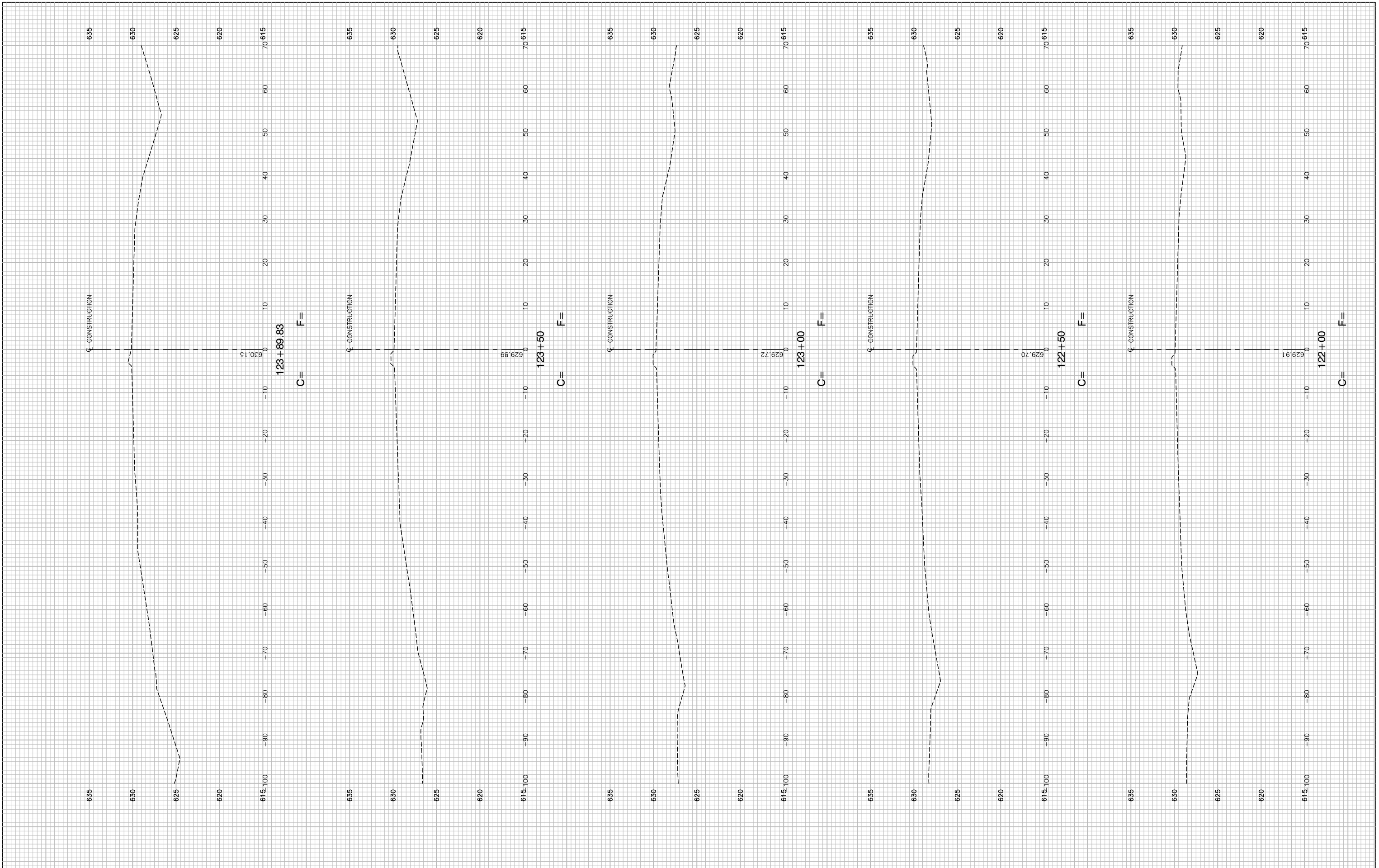
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
 175TH STREET TO INTERCHANGE RAMP
 CROSS SECTIONS

F A P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	82
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				

SCALE: SHEET NO. 82 OF 87 SHEETS STA. TO STA.

C=19.5 F=0.0



FILE NAME = 15323-XSCT-01 - IDOT_X(17)

USER NAME =	DESIGNED — SDK
CHECKED — WPD	REVISER —
PLOT SCALE =	DRAWN — ACAD
PLOT DATE = 06-16-17	CHECKED — ACAD

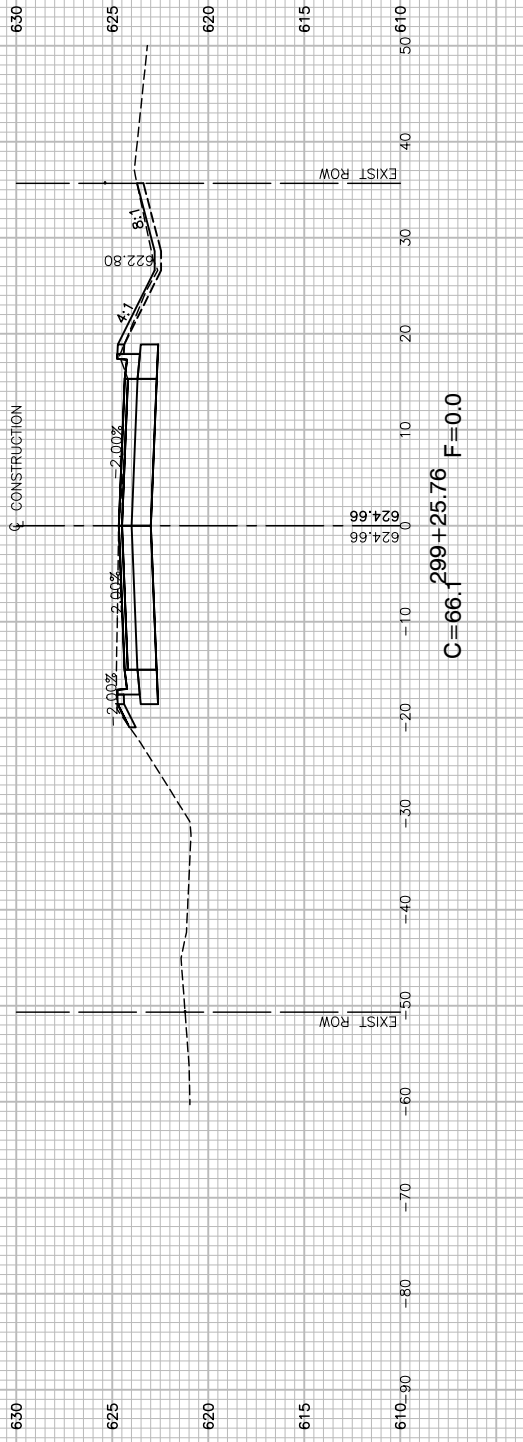
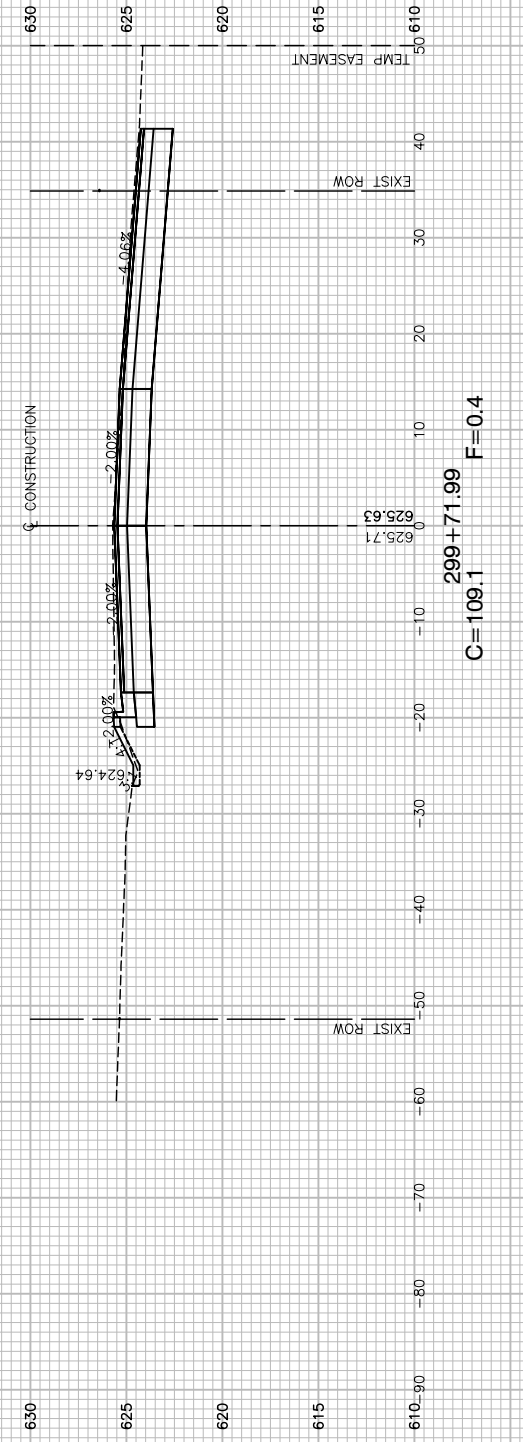
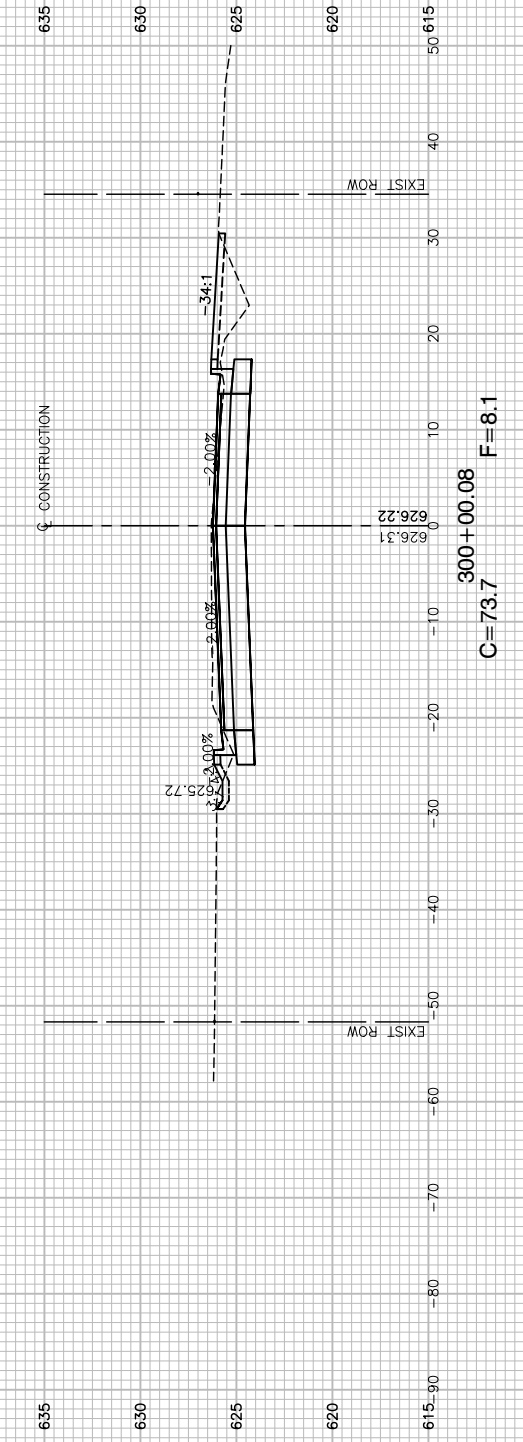
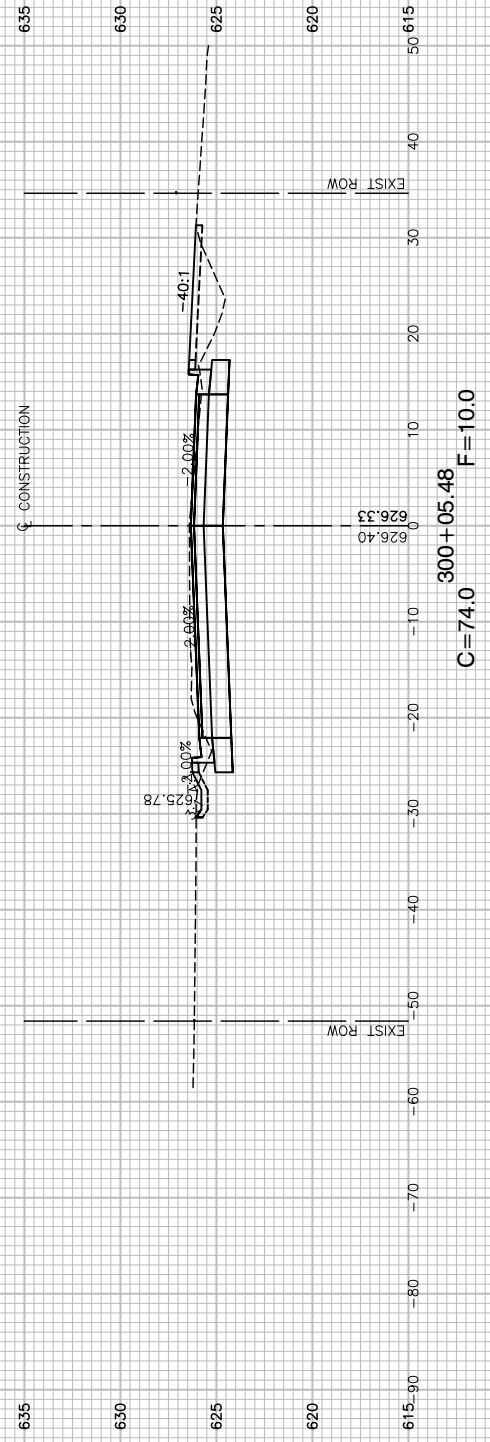
REVISER —
REVISER —
REVISER —
REVISER —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 83 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	83
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



FILE NAME = 15323-XSCT-01 - IDOT_X(8)

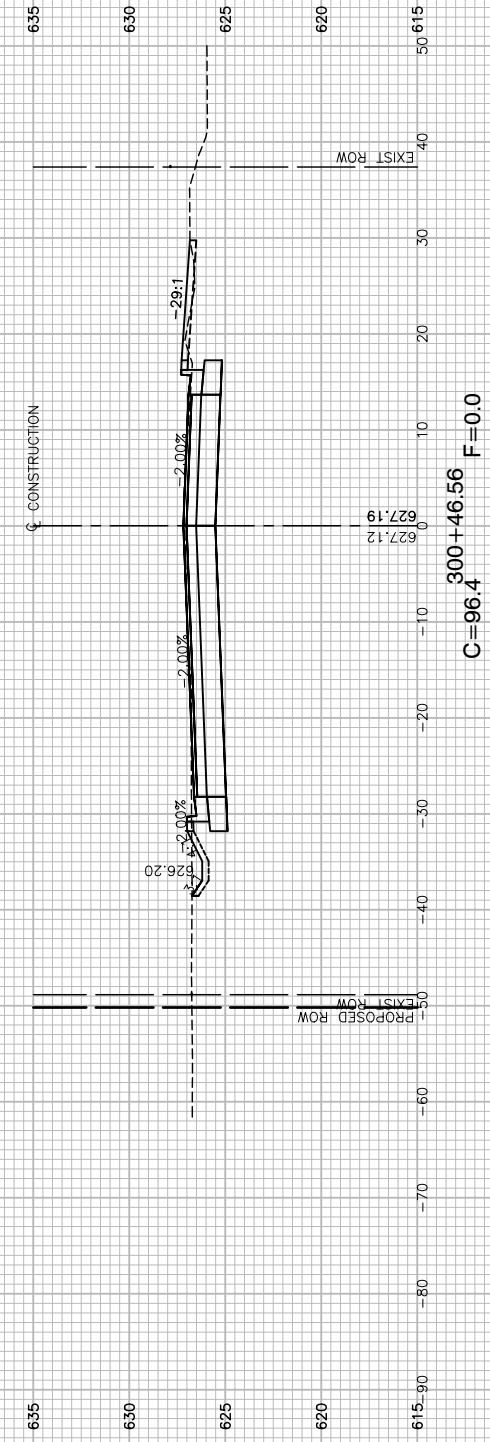
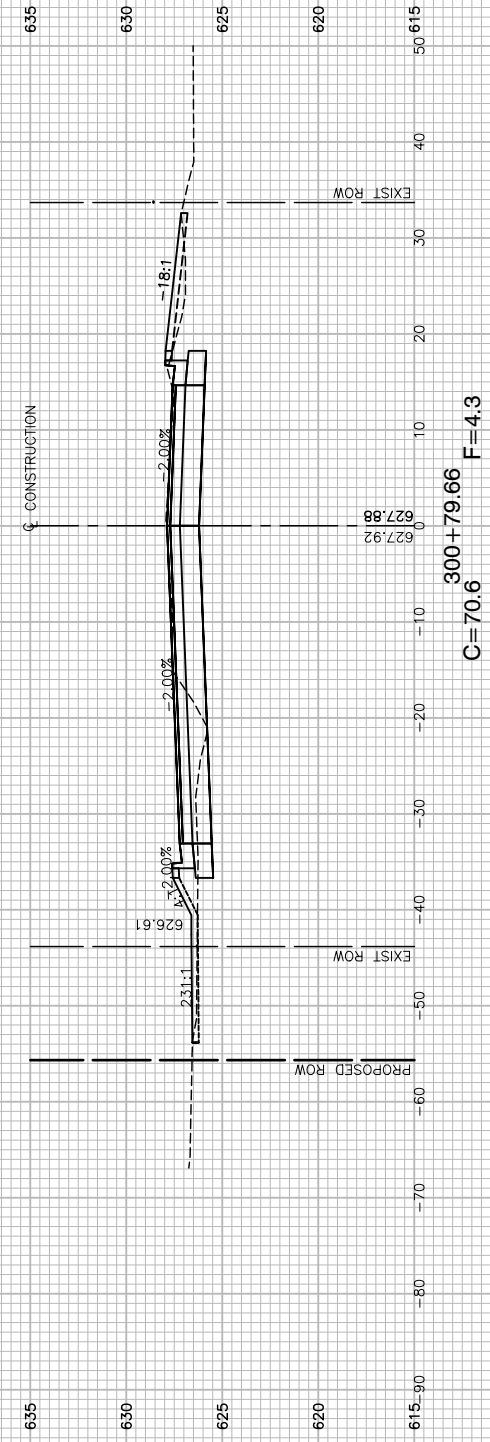
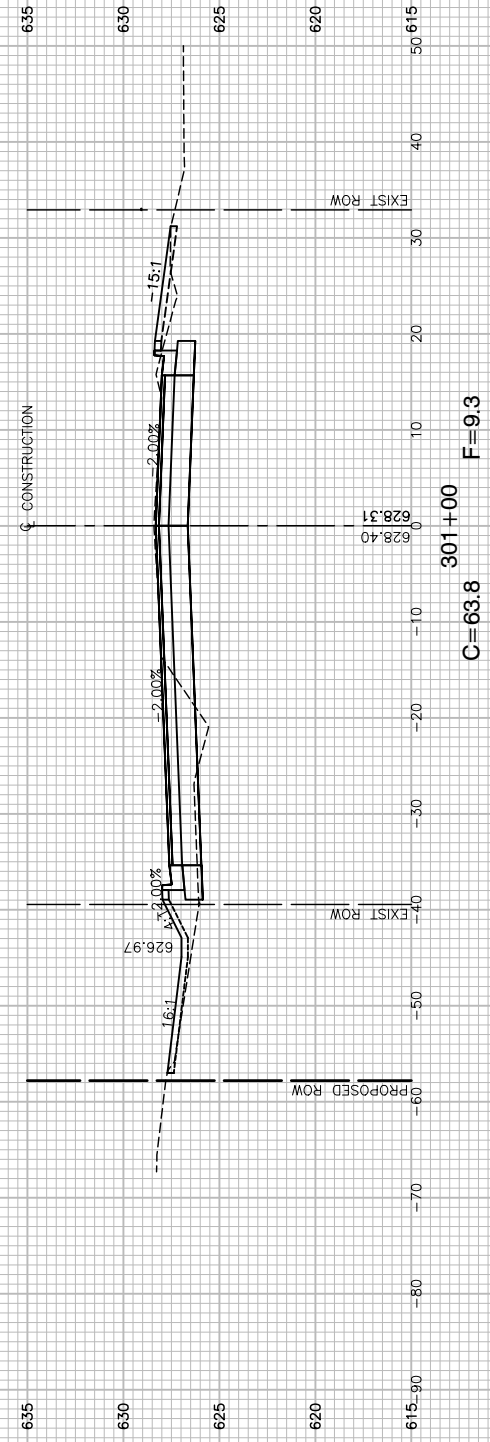
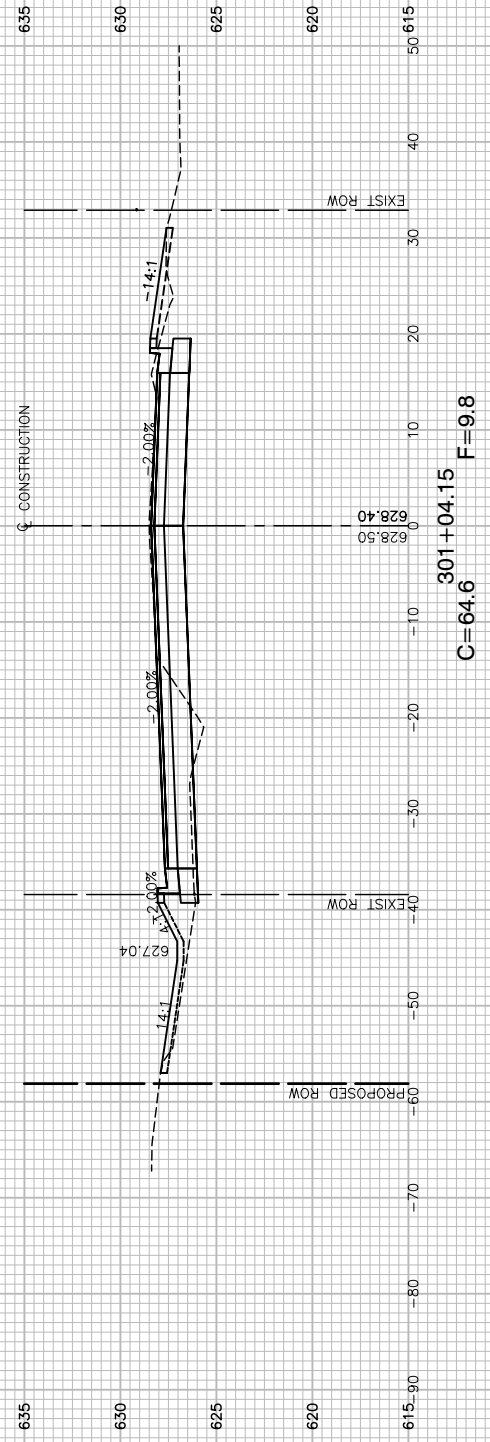
USER NAME =	DESIGNED — SDK	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 84 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	84
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



FILE NAME = 15323-XSCT-01 - IDOT_X(19)

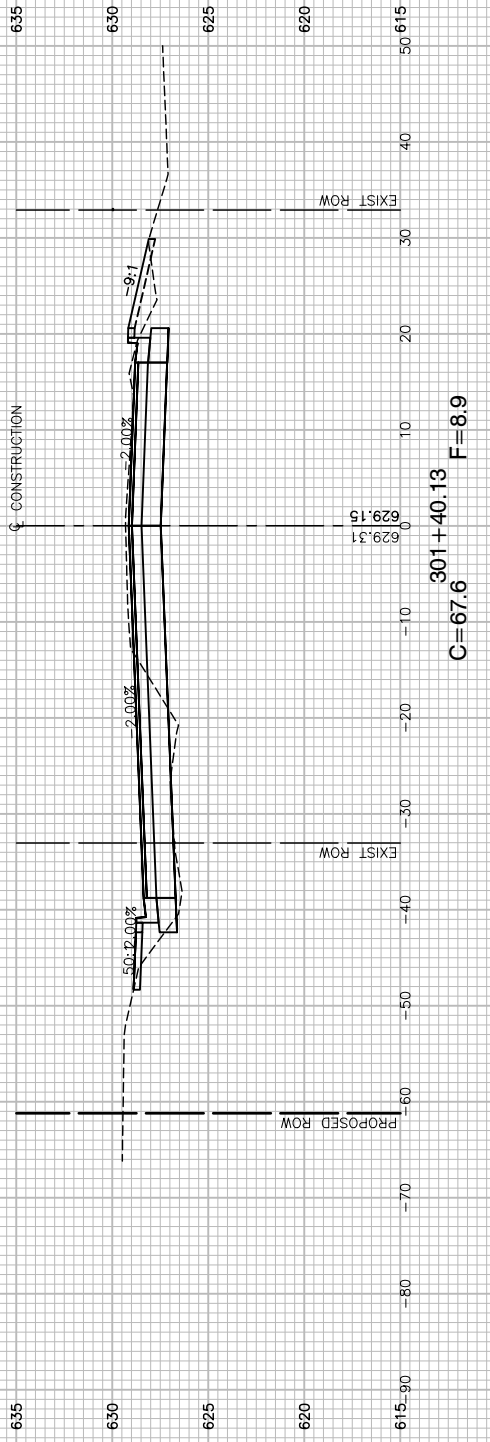
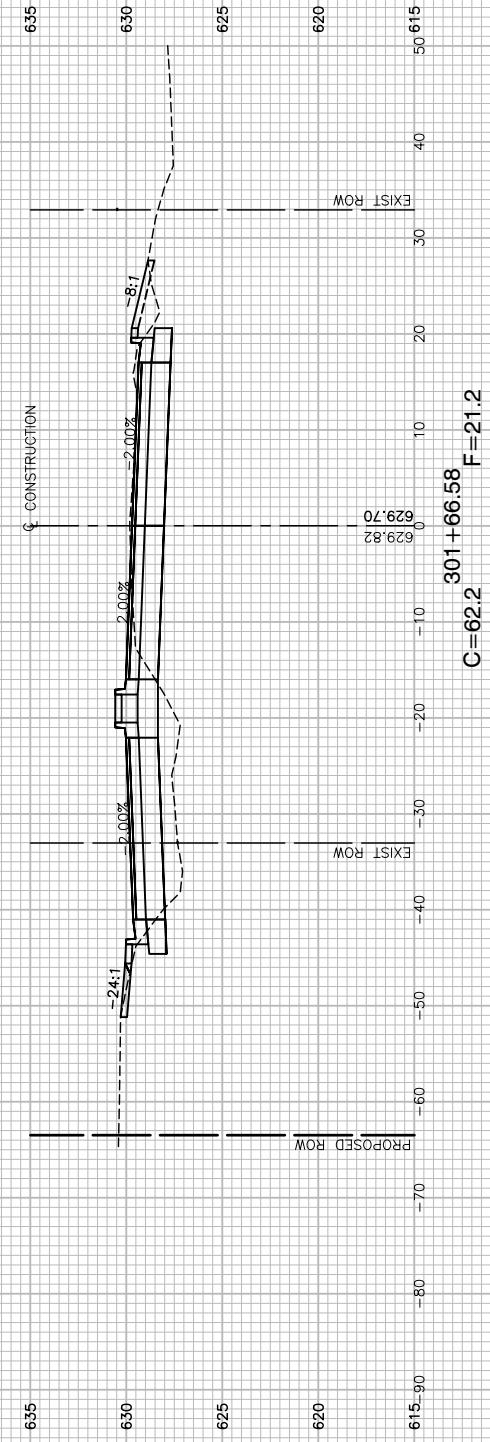
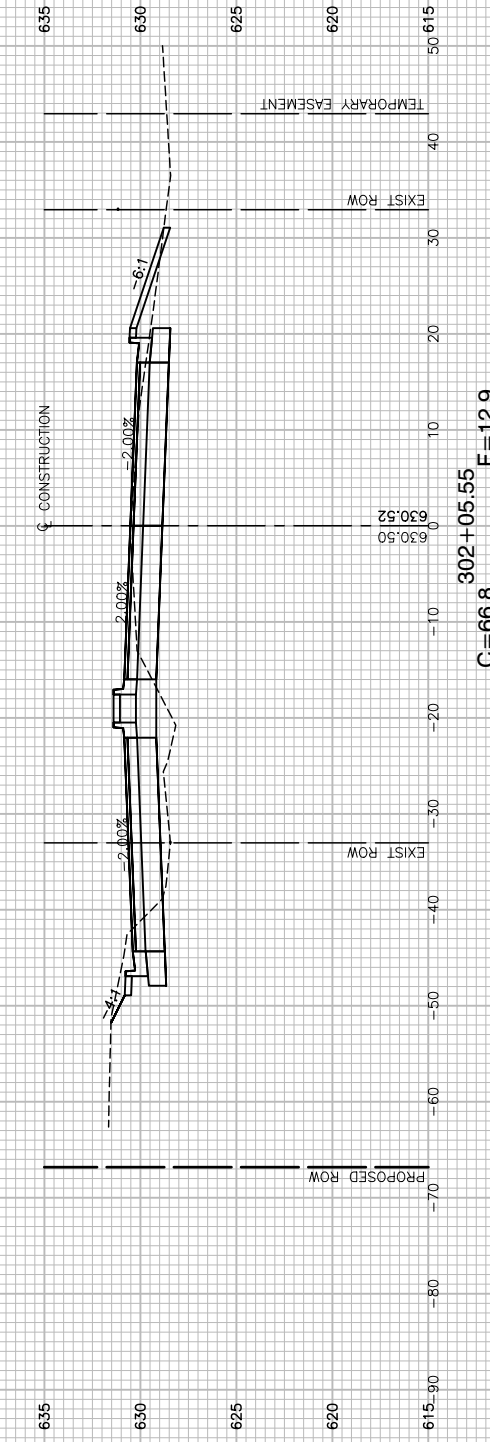
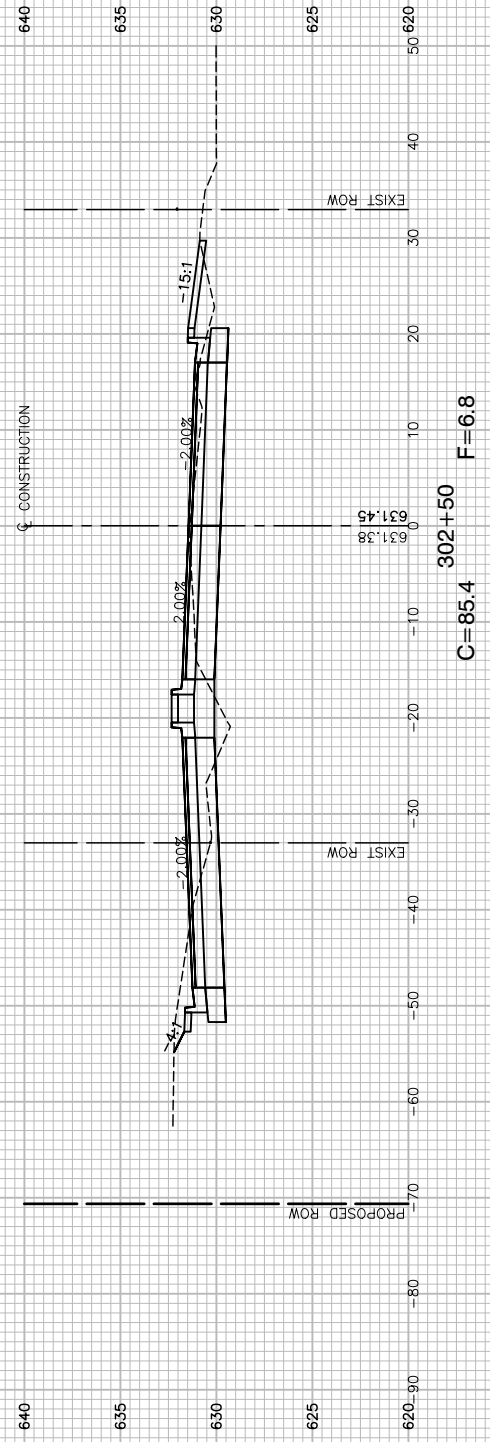
USER NAME =	DESIGNED — SDK	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 85 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	85
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				



FILE NAME = 15323-XSCT-01 - IDOT_X(10)

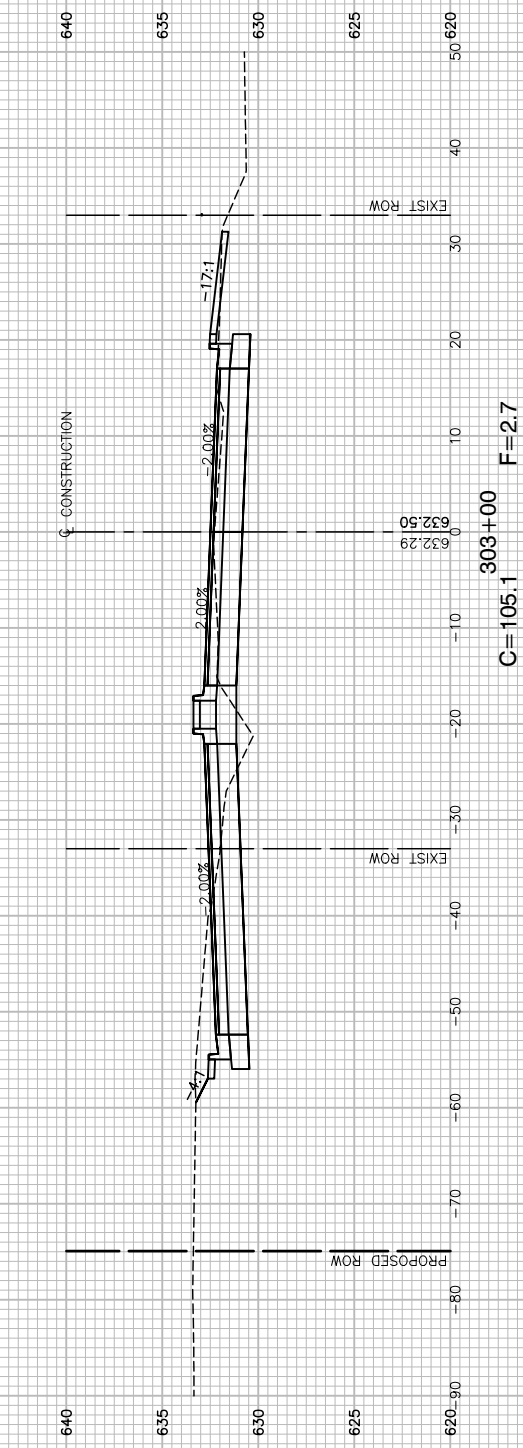
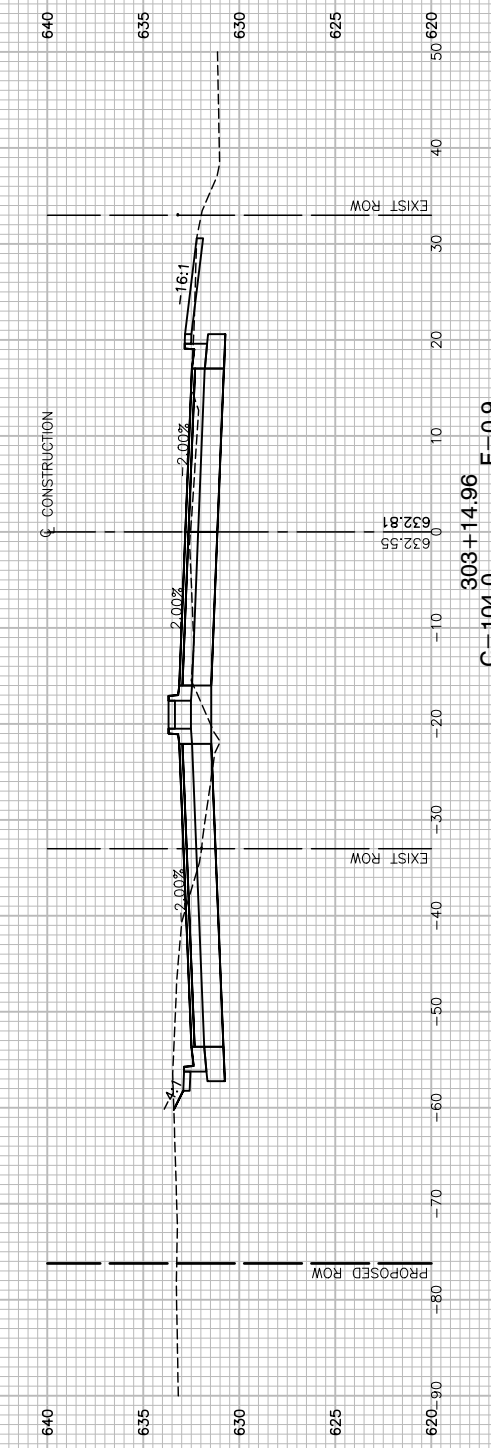
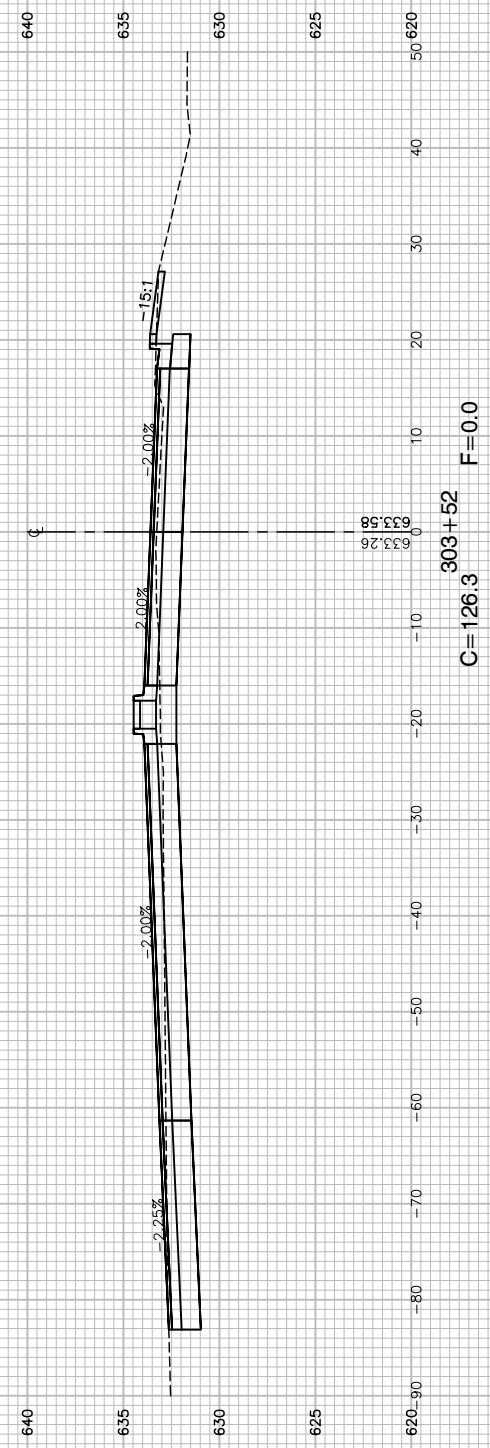
USER NAME =	DESIGNED — SDK	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 86 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	86
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	M-4003(039)	



FILE NAME = 15323-XSCT-01 - IDOT_X(11)

USER NAME =	DESIGNED — SDK	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 06-16-17	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 (HALSTED STREET)
175TH STREET TO INTERCHANGE RAMP
CROSS SECTIONS

SCALE: SHEET NO. 87 OF 87 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0876	12-00023-00-WR	COOK	87	87
CONTRACT NO. 61D42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(039)				