

FOR INDEX OF SHEETS, SEE SHEET NO. 2 01-18-2019 LETTING ITEM 116

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP ROUTE 305 (US ROUTE 14/NORTHWEST HIGHWAY/VIRGINIA STREET) AT FAU 121 (VIRGINIA ROAD)

WIDENING, RESURFACING, TRAFFIC SIGNAL, BIKE/PED PATH SECTION: 17-00125-00-CH

PROJECT: QIK3(554)

CITY OF CRYSTAL LAKE McHENRY COUNTY C-91-160-18

LOCATION MAP NOT TO SCALE

F.A.U. F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305 0121	17-00125-00-CH	McHENRY	70	1
QIK3(554)		ILLINOIS	CONTRACT NO. 61F23	

70 + 1 = 71

TRAFFIC DATA

US ROUTE 14 = OTHER PRINCIPAL ARTERIAL
POSTED SPEED LIMIT = 35 MPH
DESIGN SPEED LIMIT = 35 MPH
2017 ADT = 29,900

VIRGINIA ROAD = MINOR ARTERIAL
POSTED SPEED LIMIT = 40 MPH
DESIGN SPEED LIMIT = 40 MPH
2017 ADT = 9,200

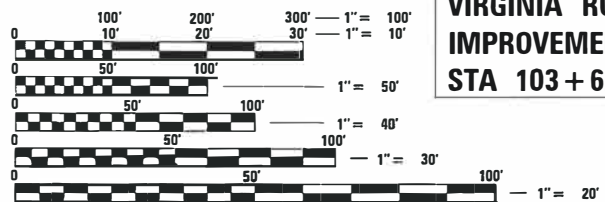
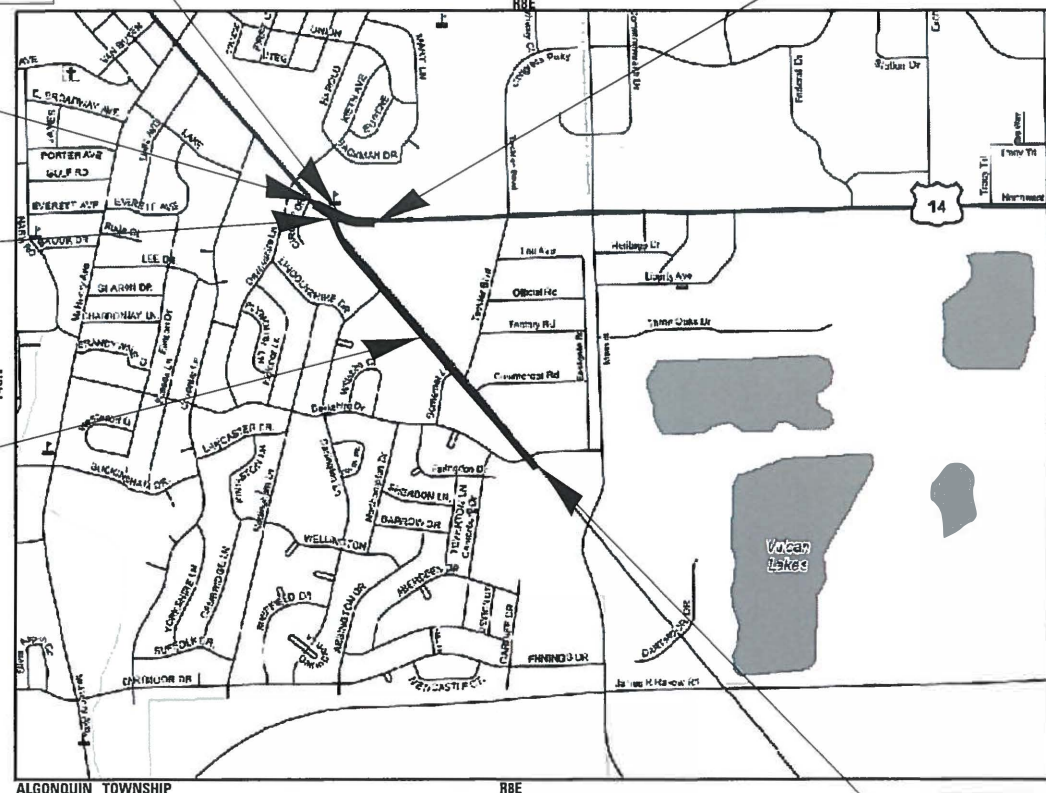
US RTE 14 (VIRGINIA ST) IMPROVEMENT ENDS = US RTE 14 (NORTHWEST HWY) IMPROVEMENT BEGINS STA. 15 + 33.9

US RTE 14 (NORTHWEST HWY) IMPROVEMENTS END STA 16 + 88.14

US RTE 14 (VIRGINIA ST) IMPROVEMENT BEGINS STA. 12 + 81.88

VIRGINIA ROAD IMPROVEMENTS END STA 112 + 03.6

VIRGINIA ROAD IMPROVEMENTS BEGIN STA 103 + 62.56



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. DESIGN STAGE REQUEST
DIG. No. X1520639



CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING:
COUNTY McHENRY
CITY-TWNSHP. = CRYSTAL LAKE
SEC. & 1/4 SEC. NO. =
48 HOURS (2 working days) BEFORE YOU DIG

GROSS LENGTH = 1,247 FT. = 0.24 MILE
NET LENGTH = 1,247 FT. = 0.24 MILE

VIRGINIA ROAD BEGIN PAVEMENT MARKING IMPROVMENTS STA 77 + 27.56



LOCATION OF SECTION INDICATED THUS: -

Professional Engineer Seal for Jason J. Fluip, License No. 62-056222, License Expires 11-30-2019.

Professional Engineer Seal for Daniel J. Schug, License No. 62-062227, License Expires 11-30-2019.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	October 5, 2018
CITY OF CRYSTAL LAKE	
APPROVED	OCTOBER 4, 2018
County of McHENRY, COUNTY ENGINEER	
PASSED	NOVEMBER 5, 2018
District 4 Engineer of Local Roads and Streets	
RELEASING FOR BID BASED ON LIMITED REVIEW	NOVEMBER 8, 2018
Regional Engineer	

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



Vertical text on the left margin: 2/20/06 PM... CADWorx... ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

INDEX TO SHEETS

HIGHWAY STANDARDS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, AND COMMITMENTS
- 3 GENERAL NOTES
- 4 - 10 SUMMARY OF QUANTITIES
- 11 EARTHWORK SCHEDULE
- 12 TYPICAL SECTIONS AND HOT-MIX ASPHALT REQUIREMENTS
- 13 TYPICAL SECTIONS
- 14 ALIGNMENT, CONTROL POINTS AND BENCHMARK LIST
- 15 PLAN & PROFILE- US RTE 14 (VIRGINIA ST) & US RTE 14 (NORTHWEST HWY)
- 16 - 17 PLAN & PROFILE - VIRGINIA RD
- 18 EROSION CONTROL PLAN
- 19 DRAINAGE & UTILITIES US RTE 14 (VIRGINIA ST) & US RTE 14 (NORTHWEST HWY)
- 20 - 21 DRAINAGE & UTILITIES - VIRGINIA RD
- 22 MANHOLE WITH RESTRICTOR PLATE (BD-12)
- 23 - 24 PAVEMENT MARKING AND SIGNING PLAN
- 25 - 31 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
- 32 DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS
- 33 DISTRICT ONE LIGHTED STREET NAME SIGN
- 34 PRE-STAGE SIGNAL HEAD PLACEMENT TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD
- 35 STAGE 1 SIGNAL HEAD PLACEMENT TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD
- 36 TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY PREEMPTION SEQUENCE US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD - PRE-STAGE AND STAGE 1
- 37 TRAFFIC SIGNAL MODERNIZATION PLAN US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD
- 38 CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY PREEMPTION SEQUENCE US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD
- 39 MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD
- 40 TEMPORARY INTERCONNECT PLAN US RTE 14 (NORTHWEST HWY) KEITH AVE/DEVONSHIRE LN TO TECKLER BLVD
- 41 TEMPORARY INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES US RTE 14 (NORTHWEST HWY) WOODSTOCK ST TO SANDS RD
- 42 PROPOSED INTERCONNECT PLAN US RTE 14 (NORTHWEST HWY) KEITH AVE/DEVONSHIRE LN TO TECKLER BLVD
- 43 PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES US RTE 14 (NORTHWEST HWY) WOODSTOCK ST TO SANDS RD
- 44 TEMPORARY STREET LIGHTING PLAN US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD
- 45 - 46 STREET LIGHTING PLAN US RTE 14 (VIRGINIA ST) AND VIRGINIA RD
- 47 - 48 LIGHTING DETAILS
- 49 - 52 ADA SIDEWALK RAMP DETAILS
- 53 MISCELLANEOUS DETAILS
- 54 DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER > = 15' (4.5m) - (BD-C1)
- 55 DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER - (BD-07)
- 56 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING - (BD-08)
- 57 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT - (BD-22)
- 58 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT - (BD-24)
- 59 BUTT JOINT AND HMA TAPER DETAILS - (BD-32)
- 60 FIRE HYDRANT TO BE MOVED - (BD-36)
- 60A TEMPORARY LIGHT POLE (BE-800)
- 61 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS - (TC-10)
- 62 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) - (TC-11)
- 63 DISTRICT ONE TYPICAL PAVEMENT MARKINGS - (TC-13)
- 64 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS - (TC-16)
- 65 ARTERIAL ROAD INFORMATION SIGN - (TC-22)
- 66 DRIVEWAY ENTRANCE SIGNING - (TC-26)
- 67 - 68 CROSS SECTIONS US RTE 14 (NORTHWEST HWY)
- 69 - 70 CROSS SECTIONS VIRGINIA ROAD

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424011-04 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 424016-05 MID-BLOCK CURB RAMPS FOR SIDEWALKS
- 424031-02 MEDIAN PEDESTRIAN CROSSINGS
- 442201-03 CLASS C AND D PATCHES
- 601001-05 PIPE UNDERDRAINS
- 602001-02 CATCH BASIN TYPE A
- 602011-02 CATCH BASIN TYPE C
- 602401-05 PRECAST MANHOLE TYPE A 4' (1.22m) DIAMETER
- 602402-01 PRECAST MANHOLE TYPE A 5' (1.52m) DIAMETER
- 602406-09 PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER
- 602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604001-04 FRAME AND LIDS TYPE 1
- 604051-04 FRAME AND GRATE TYPE 11
- 604091-03 FRAME AND GRATE TYPE 24
- 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' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER.. FOR SPEEDS ≤ 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701502-09 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720016-04 MAST ARM MOUNTED STREET NAME SIGNS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 814001-03 HANDHOLES
- 814006-02 DOUBLE HANDHOLES
- 821101-02 LUMINAIRE WIRING IN POLE
- 830026-01 TEMPORARY ROADWAY LIGHTING
- 836001-04 LIGHT POLE FOUNDATION
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 877001-07 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 877006-06 STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
- 878001-10 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 12/4/2018 10:23:36 AM
 FILE NAME: I:\CADD\170562-RT 14.ctb
 FILE PATH: I:\CADD\170562-RT 14.ctb
 FILE SIZE: 1000000 bytes
 FILE DATE: 12/4/2018 10:23:36 AM
 FILE TIME: 10:23:36 AM
 FILE USER: 560KAR

	USER NAME = 560KAR	DESIGNED - LJK	REVISED -
		DRAWN - UKB	REVISED -
	PLOT SCALE = 1,0000 ' / in.	CHECKED - DJS	REVISED -
	PLOT DATE = 12/4/2018	DATE - 10-04-18	FILE - 170562-Sht-GenNtes.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS,
AND COMMITMENTS

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P./F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305 0121	17-00125-00-CH	MCHENRY	70	2
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
2. ALL RELEVANT UTILITIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES FOR CONTACT INFORMATION OF UTILITY OWNERS.
3. THE CONTRACTOR'S SUPERINTENDENT OR AUTHORIZED AGENT, AS DEFINED IN ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS, MUST BE AVAILABLE IN CASE OF EMERGENCIES ON A TWENTY-FOUR (24) HOUR BASIS.
4. AT THE TIME OF THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED CONCRETE TRUCK WASHOUT LOCATIONS. RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE DITCH. WASH OUTS SHALL NOT BE PLACED IN THE VIRGINIA ROAD ROW.
5. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS ADMINISTRATOR AND THE COUNTY DOT AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN CITY UTILITY LOCATIONS.
6. THE ENGINEER WILL FURNISH A RESIDENT PROJECT REPRESENTATIVE (RPR) TO ASSIST THE ENGINEER IN PROVIDING JOB-SITE OBSERVATION OF THE CONTRACTOR'S WORK. THE RPR WILL PROVIDE BASE LINES, BENCHMARKS AND REFERENCE POINTS, ASSIST THE CONTRACTOR WITH INTERPRETATION OF THE PLANS AND SPECIFICATIONS, OBSERVE IN GENERAL IF THE CONTRACTOR'S WORK IS IN CONFORMITY WITH THE CONTRACT DOCUMENTS, AND MONITOR THE CONTRACTOR'S PROGRESS AS RELATED TO THE DATE OF COMPLETION, THE LIMITATIONS ON AUTHORITY AND RESPONSIBILITY OF THE ENGINEER SHALL ALSO APPLY TO THE ENGINEER'S CONSULTANTS, RESIDENT PROJECT REPRESENTATIVE AND ASSISTANTS.
7. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CITY RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF CITY WATER IF DEEMED NECESSARY.
8. ACCESS TO ALL DRIVEWAYS AND SIDEWALK SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR CRUSHED GRAVEL AS TEMPORARY AGGREGATE. TEMPORARY ACCESS FOR SIDEWALKS SHALL BE ADA COMPLIANT.
9. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE CITY WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE CITY TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
10. PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE THICKENED TO 8-INCHES AT LOCATIONS WHERE THE SIDEWALK CROSSES DRIVEWAYS. TRANSVERSE EXPANSION JOINTS 3/4" SHALL BE PLACED EVERY 50 FEET OR AS DETERMINED BY THE ENGINEER. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED EVERY 5-FEET.
11. THE CONTRACTOR SHALL CONTACT THE LOCAL AGENCY MATERIAL INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY CONCRETE OR HOT-MIX ASPHALT MATERIAL DELIVERIES.
12. ALL FRAME AND LID CASTINGS LOCATED WITHIN THE PAVEMENT WHICH REQUIRE RESETTING TO FINISH GRADE SHALL BE BACKFILLED WITH CLASS SI CONCRETE AND ALLOWED TO CURE FOR 72 HOURS PRIOR TO PLACEMENT OF SURFACE COURSE. CLASS PP CONCRETE SHALL BE USED IF PLACEMENT OF SURFACE COURSE IS PLANNED IN LESS THAN 72 HOURS. HMA MATERIALS WILL NOT BE ALLOWED AS BACKFILL AROUND AN ADJUSTED CASTING. THIS WORK SHALL APPLY TO ALL CASTINGS ADJUSTED OR RECONSTRUCTED AS PART OF THIS CONTRACT, WHETHER PAID FOR SEPARATELY OR INCLUDED IN OTHER CONTRACT WORK.
13. THE CURB SHALL BE TAPERED TO THE GUTTER IN A FIVE (5) FOOT LENGTH WHEREVER THE CURB AND GUTTER TERMINATES, WITH AN EXPANSION JOINT PLACED AT THE START OF THE TAPER.
14. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE.
15. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
16. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND SHALL NOT EXCEED 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. A MAXIMUM GRADE DIFFERENCE OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H), AS DETERMINED BY THE ENGINEER.
17. THE DAYS PAVING OPERATION SHOULD RESULT IN A SINGLE TRANSVERSE JOINT. ANY COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDING A SINGLE TRANSVERSE JOINT SHALL BE ACCOMPLISHED BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.
18. THE SURVEY DATUM USED FOR THIS PROJECT IS NAVD88.
MAINTENANCE OF TRAFFIC GENERAL NOTES:
19. ANY CHANGE IN TRAFFIC CONTROL SHALL HAVE PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES.
20. THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK PRIOR TO THE START OF WORK FOR REVIEW AND APPROVAL. NO WORK SHALL COMMENCE UNTIL THE PREPLANNED SEQUENCE OF WORK HAS BEEN APPROVED BY THE ENGINEER. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO PROPERTY OWNERS AND TENANTS AND TO MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE ENGINEER RESERVES THE RIGHT TO RESTRICT WORK ON ANY ROADWAY/SIDEWALK SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE; TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE; OR AN EROSION CONTROL DEFICIENCY EXISTS.
21. THE CONTRACTOR WILL BE REQUIRED TO ATTEND WEEKLY PROGRESS MEETINGS WITH THE CITY, COUNTY, AND ENGINEER TO PROVIDE WEEKLY UPDATES ON THE PROPOSED WORK SCHEDULE AND UPCOMING SEQUENCE OF CONSTRUCTION ACTIVITIES. THE WORK SCHEDULE AND SEQUENCE OF WORK WILL REQUIRE APPROVAL OF THE CITY AND COUNTY AND COORDINATION WITH IMPACTED PROPERTY OWNERS AND TENANTS.
22. AGGREGATE SURFACE WILL NOT BE ALLOWED FOR MAINTAINING MAINLINE TRAFFIC. PATCHING OPERATIONS SHALL BE STAGED SO THAT PATCHING AND/OR TEMPORARY PAVEMENT CAN BE COMPLETED ON THE SAME DAY AS PAVEMENT REMOVAL.
23. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO DRIVEWAYS AND SIDE STREETS DURING CONSTRUCTION. THIS WORK SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS.
24. ALL COMMERCIAL PROPERTIES AND PARKING LOTS SHALL BE PROVIDED AT LEAST ONE INGRESS AND ONE EGRESS AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DRIVEWAY CLOSURES/MODIFICATIONS WITH THE PROPERTY OWNERS AND TENANTS AND THE ENGINEER. COMMERCIAL DRIVEWAYS WHICH CANNOT BE CLOSED, AS DETERMINED BY THE ENGINEER, SHALL BE CONSTRUCTED IN STAGES OR WILL BE CONSTRUCTED WHEN BUSINESSES ARE NOT OPEN USING HIGH EARLY STRENGTH CONCRETE. IF NECESSARY, THE CONTRACTOR SHALL MAINTAIN ACCESS TO COMMERCIAL DRIVEWAYS BY USE OF FLAGGERS DURING CONSTRUCTION WORK HOURS AS DETERMINED BY THE ENGINEER.
25. RESIDENTS AND BUSINESSES SHALL HAVE ACCESS TO THEIR DRIVEWAYS AT THE END OF EACH DAY, EXCEPT DURING ADJACENT CURB AND GUTTER CONSTRUCTION OR CONCRETE DRIVEWAY REPLACEMENT.
26. CONSTRUCTION SHALL BE STAGED SO THAT AGGREGATE SUBGRADE IMPROVEMENT IS PLACED WITHIN 24 HOURS OF COMPLETING EARTH EXCAVATION FOR EACH LOCATION.
27. DRIVEWAY ENTRANCE SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL FOR DRIVEWAY ENTRANCE SIGNING AT THE CVS.
28. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:02:43 PM
 FILE NAME: I:\Projects\LakeCreek\170562-RL_14_at_Virginia\CADD\170562-Sht-GenNtes.dgn
 FILE PATH: I:\Projects\LakeCreek\170562-RL_14_at_Virginia\CADD\170562-Sht-GenNtes.dgn
 FILE DATE: 11/28/2018 12:02:43 PM
 FILE TIME: 12:02:43 PM

	USER NAME = 560KAR	DESIGNED - LJK	REVISED -
		DRAWN - UKB	REVISED -
	PLOT SCALE = 1.0000' / in.	CHECKED - DJS	REVISED -
	PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-GenNtes.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 3
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK31554				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY	TRAFFIC SIGNALS	LIGHTING
				0004 URBAN	0021 URBAN	0021 URBAN
20200100	EARTH EXCAVATION	CU YD	206	206		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	414	414		
20800150	TRENCH BACKFILL	CU YD	241	241		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	140	140		
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	932	932		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	13	13		
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	13	13		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	13	13		
* 25100115	MULCH, METHOD 2	ACRE	0.5	0.5		
* 25200110	SODDING, SALT TOLERANT	SQ YD	932	932		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30	30		
28000400	PERIMETER EROSION BARRIER	FOOT	122	122		
28000510	INLET FILTERS	EACH	17	17		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	53	53		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	787	787		

* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY	TRAFFIC SIGNALS	LIGHTING
				0004 URBAN	0021 URBAN	0021 URBAN
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	531	531		
35102500	AGGREGATE BASE COURSE, TYPE B 13"	SQ YD	137	137		
35400520	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 12"	SQ YD	14	14		
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	379	379		
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	179	179		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6,324	6,324		
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	130	130		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	598	598		
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	759	759		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	84	84		
42001300	PROTECTIVE COAT	SQ YD	801	801		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,043	2,043		
42400800	DETECTABLE WARNINGS	SQ FT	60	60		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2,626	2,626		
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	4,137	4,137		

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:02:25 PM
 MODEL: D:\dwg\...
 FILE NAME: V:\corp\boxwood.com\Projects\Crystal Lake\CRYLIC170562-RT 14 at Virginia\CADD\170562-Sht-S00.dgn



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
PLOT SCALE = 1:0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-S00.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P./F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305 0121	17-00125-00-CH	McHENRY	70	4
ILLINOIS FED. AID PROJECT QIK31554			CONTRACT NO. 61F23	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY	TRAFFIC SIGNALS	LIGHTING
				0004 URBAN	0021 URBAN	0021 URBAN
44000100	PAVEMENT REMOVAL	SQ YD	424	424		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	88	88		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,355	1,355		
44000600	SIDEWALK REMOVAL	SQ FT	1,323	1,323		
44003100	MEDIAN REMOVAL	SQ FT	741	741		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	272	272		
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	407	407		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	797	797		
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	24	24		
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	13	13		
550A2380	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 30"	FOOT	147	147		
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	40	40		
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	20	20		
550A2600	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"	FOOT	274	274		
55100500	STORM SEWER REMOVAL 12"	FOOT	45	45		

* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY	TRAFFIC SIGNALS	LIGHTING
				0004 URBAN	0021 URBAN	0021 URBAN
55100700	STORM SEWER REMOVAL 15"	FOOT	270	270		
56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	1		
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	425	425		
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2		
60203805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1		
60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	1	1		
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	4	4		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1		
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3		
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1		
60500040	REMOVING MANHOLES	EACH	4	4		
60500050	REMOVING CATCH BASINS	EACH	1	1		

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018
 MODEL: Default
 FILE NAME: V:\corp\boxwood.com\Projects\Crystal Lake\CRYLC\170562-Rt 14 at Virginia\CADD\170562-Sht-S00.dgn
 ...\\plotdrv\pdf-BW_Default.plt
 ...\\CADD\Plots\170562-B&W.tbl
 ...\\corp.boxwood.com\Projects\Crystal Lake\CRYLC\170562-Rt 14 at Virginia\CADD\170562-Sht-S00.dgn



USER NAME = 560KAR	DESIGNED - LIK	REVISED -
PLOT SCALE = 1,0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-S00.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY McHENRY	TOTAL SHEETS 70	SHEET NO. 5
ILLINOIS FED. AID PROJECT QIK31554)			CONTRACT NO. 61F23	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY	TRAFFIC SIGNALS	LIGHTING
				0004 URBAN	0021 URBAN	0021 URBAN
60500060	REMOVING INLETS	EACH	1	1		
60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	1	1		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	429	429		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,085	1,085		
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1,220	1,220		
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	579	579		
66300105	CALCIUM CHLORIDE APPLIED	TON	0.9	0.9		
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	100		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1		
66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DAY	18	18		
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5		
67100100	MOBILIZATION	LSUM	1.0	1.0		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		

* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY	TRAFFIC SIGNALS	LIGHTING
				0004 URBAN	0021 URBAN	0021 URBAN
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	946	946		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	421	421		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	456	456		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3,144	3,144		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	6,301	6,301		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	120	120		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1,576	1,576		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	112	112		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	78	78		
* 72600100	TELESCOPING STEEL SIGN SUPPORT	FOOT	195	195		
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	456	456		

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:02:38 PM
 MODEL: Default
 FILE NAME: V:\corp\boxwood.com\Projects\Crystal Lake\CRYLC\170562-Rt 14.ctb
 V:\glnio\CADD\170562-Sht-SOQ.dgn



USER NAME = 560KAR	DESIGNED -	REVISED -
PLOT SCALE = 1.0000" = 1/4"	CHECKED -	REVISED -
PLOT DATE = 11/8/2018	DATE = 10-04-18	FILE = 170562-Sht-SOQ.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY McHENRY	TOTAL SHEETS 70	SHEET NO. 6
ILLINOIS FED. AID PROJECT QIK31554			CONTRACT NO. 61F23	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED	80% FED	80% FED
				13% STATE	13% STATE	13% STATE
				3.5% COUNTY	3.5% COUNTY	3.5% COUNTY
3.5% CITY	3.5% CITY	3.5% CITY				
				ROADWAY	TRAFFIC SIGNALS	LIGHTING
				0004	0021	0021
				URBAN	URBAN	URBAN
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,144	3,144		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	6,301	6,301		
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	120	120		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,576	1,576		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	112	112		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	17	17		
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	52	52		
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	726		726	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	72		72	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	462		462	
* 81400100	HANDHOLE	EACH	4		4	
* 81400200	HEAVY-DUTY HANDHOLE	EACH	1		1	
* 81400300	DOUBLE HANDHOLE	EACH	2		2	
* 81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1			1
* 81603047	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	555			555

* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED	80% FED	80% FED
				13% STATE	13% STATE	13% STATE
				3.5% COUNTY	3.5% COUNTY	3.5% COUNTY
3.5% CITY	3.5% CITY	3.5% CITY				
				ROADWAY	TRAFFIC SIGNALS	LIGHTING
				0004	0021	0021
				URBAN	URBAN	URBAN
* 81800330	AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE	FOOT	595			595
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	16			16
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	2			2
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2			2
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
* 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	5		5	
* 85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	3		3	
* 85100701	PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1		1	
* 86400100	TRANSCIVER - FIBER OPTIC	EACH	1		1	
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,147		3,147	
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	862		862	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,367		1,367	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,802		2,802	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	267		267	
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,063		1,063	

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 PROJECT: 170562-RT-14 at Virginia/CADD/170562-Sht-S00.dgn
 FILE: 170562-RT-14 at Virginia/CADD/170562-Sht-S00.dgn
 BAXTER & WOODMAN
 120244 PM 11/28/2018
 USER: 560KAR
 DESIGNED: -
 DRAWN: -
 CHECKED: -
 DATE: 10-04-18
 REVISED: -
 REVISED: -
 REVISED: -
 FILE: 170562-Sht-S00.dgn



USER NAME = 560KAR	DESIGNED -	REVISED -
PLOT SCALE = 1,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/08/2018	DATE = 10-04-18	FILE = 170562-Sht-S00.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY McHENRY	TOTAL SHEETS 70	SHEET NO. 7
CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT QIK3(554)	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY 0004 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING 0021 URBAN
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	139		139	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	888		888	
* 87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3		3	
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1		1	
* 87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1		1	
* 87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1		1	
* 87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1	
* 87702470	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 42 FT.	EACH	1		1	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24		24	
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10		10	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	25		25	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6		6	
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5		5	
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1	

* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY 0004 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING 0021 URBAN
* 88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2		2	
* 88055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1		1	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6		6	
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9		9	
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	3		3	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	236		236	
* 88700200	LIGHT DETECTOR	EACH	3		3	
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1	
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	5		5	
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4,964		4,964	
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
* 89502380	REMOVE EXISTING HANDHOLE	EACH	4		4	
* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1	
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6		6	

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 2:02:45PM
 MODEL: Default
 FILE NAME: \\crystal\crystal\Projects\Crystal Lake\170562-RT 14 at Virginia\CADD\170562-Sht-SOQ.dgn



USER NAME = 560KAR	DESIGNED -	REVISED -
PLOT SCALE = 1:0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/8/2018	CHECKED -	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-SOQ.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P./F.A.U. RTE 305 0121	SECTION 17-00125-00-CH	COUNTY McHENRY	TOTAL SHEETS 70	SHEET NO. 8
ILLINOIS FED. AID PROJECT QIK3(554)			CONTRACT NO. 61F23	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY 0004 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING 0021 URBAN
A2000120	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	1	1		
A2001820	TREE, ACER SACCHARUM GREEN MOUNTAIN (GREEN MOUNTAIN SUGAR MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	1	1		
Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SQ YD	62	62		
Z0013798	CONSTRUCTION LAYOUT	LSUM	1.0	1.0		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	84	84		
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	3			3
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1	
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	39	39		
Z0062456	TEMPORARY PAVEMENT	SQ YD	139	139		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1	
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	308		308	
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	2,356		2,356	
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4		4	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	6,536	6,536		

* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY 0004 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING 0021 URBAN
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1	
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1	
X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2		2	
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	200	200		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	7	7		
X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1		
X6023102	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	EACH	1	1		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	270	270		
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	6,536	6,536		
X7810300	RECESSED REFLECTIVE PAVMENT MARKER	EACH	35	35		
X7830068	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS	SQ FT	456	456		
X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	2,090	2,090		
X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	5,958	5,958		
X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	120	120		
X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	1,125	1,125		

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:02:57 PM
 MODEL: D:\default
 FILE NAME: \\corporate\boxwood.com\Projects\Crystal Lake\CRYLC\170562-Rt 14 at Virginia\CADD\170562-Sht-SOQ.dgn



USER NAME = 560KAR	DESIGNED -	REVISED -
PLOT SCALE = 1,0000' / 1 in.	DRAWN -	REVISED -
PLOT DATE = 11/8/2018	CHECKED -	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-SOQ.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 9
ILLINOIS FED. AID PROJECT QIK3(554)			CONTRACT NO. 61F23	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY	80% FED 13% STATE 3.5% COUNTY 3.5% CITY
				ROADWAY 0004 URBAN	TRAFFIC SIGNALS 0021 URBAN	LIGHTING 0021 URBAN
X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25'	FOOT	39	39		
X8100105	CONDUIT SPLICE	EACH	1		1	
X8410102	TEMPORARY LIGHTING SYSTEM	LSUM	1			1
X8410103	REMOVE TEMPORARY LIGHTING SYSTEM	LSUM	1			1
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3,147		3,147	
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1	
XX008608	CABLE, SPECIAL	FOOT	859		859	
# 20076600	TRAINEES	HOURL	500			
# 20076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500			

* INDICATES SPECIALTY ITEM
#0042

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/9/2018
 MODEL: Default
 FILE NAME: W:\corp\boxwood.com\Projects\Crystal Lake\CRYLC\170562-Sht-500.dgn
 ... \plotdrv\pdf-BW_Default.plt
 ... \CADD\Plots\170562-B&W.tbl
 ... \corp\boxwood.com\Projects\Crystal Lake\CRYLC\170562-Rt 14 of Virginia\CADD\170562-Sht-500.dgn

	USER NAME = 560KAR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P./F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1.0000" = 1/4" IN.	DRAWN -	REVISED -		305	17-00125-00-CH	McHENRY	70	10			
PLOT DATE = 11/9/2018	CHECKED -	REVISED -			SCALE: NO SCALE	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 61F23	
	DATE - 10-04-18	FILE - 170562-Sht-SOQ.dgn									ILLINOIS FED. AID PROJECT QIK3(554)	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:03:42 PM
 FILE NAME: I:\C:\Users\Lake\CR\170562-RT_14.ctb at Virginia\CADD\170562-Sht-Earthwrk-Sch.dgn
 FILE NAME: I:\C:\Users\Lake\CR\170562-RT_14.ctb at Virginia\CADD\170562-Sht-Earthwrk-Sch.dgn



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-Earthwrk-Sch.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EARTHWORK SCHEDULE

SCALE: SHEET OF SHEETS STA. TO STA.

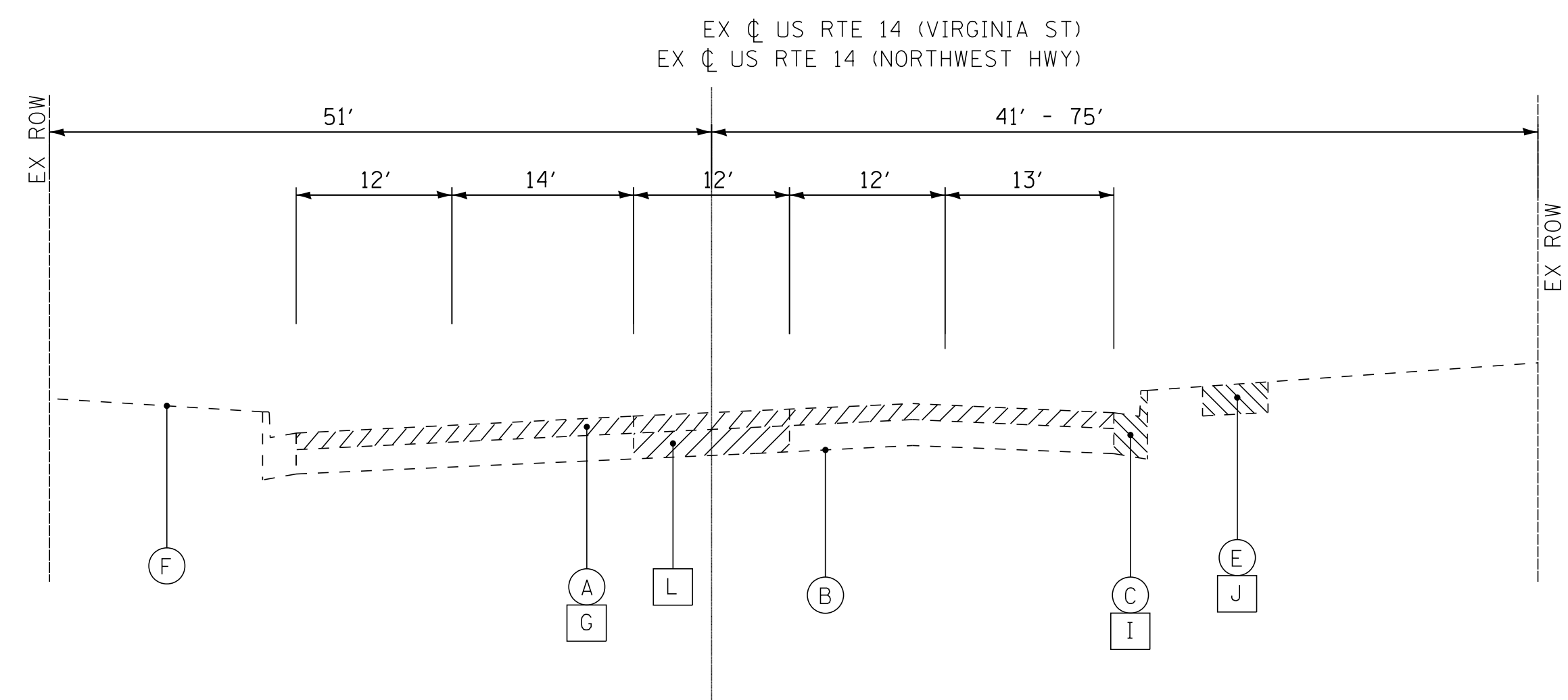
F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 11
CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT QIK3(554)	

EARTHWORK SCHEDULE					
1 LOCATION	2 EARTH EXCAVATION (CU YD)	3 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	4 EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CU YD)	5 EMBANKMENT (CU YD)	6 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
US ROUTE 14	79	233	67	86	(-19)
VIRGINIA ROAD	127	181	108	45	+63
	-		-		-
TOTAL	206	414	175	131	+44

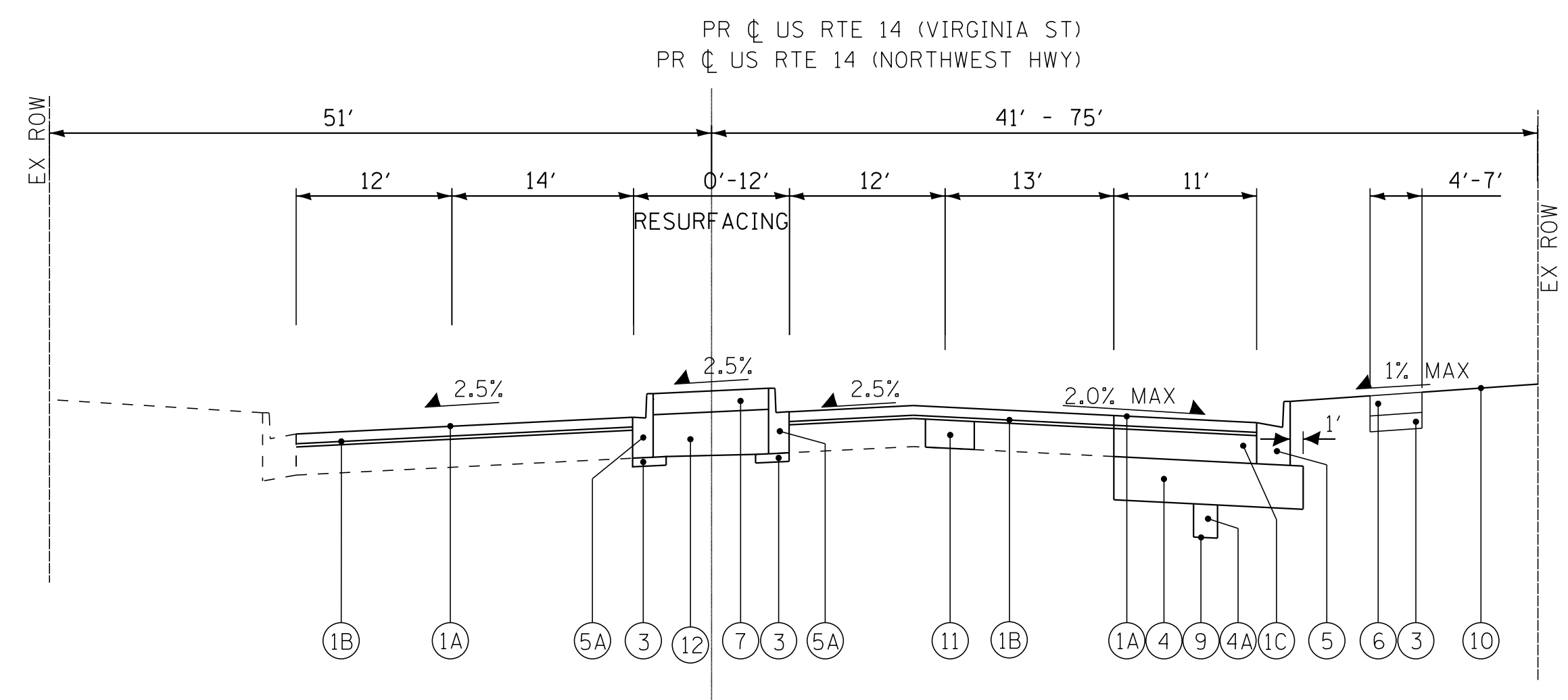
COLUMN 1 - LOCATION FROM PLANS.
 COLUMN 2 - CUT QUANTITIES FROM CROSS SECTIONS, NOT INCLUDING UNSUITABLE MATERIAL OR TOPSOIL.
 COLUMN 3 - CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FROM USE IN EMBANKMENT (TOPSOIL EXCAVATED AT 18" AVERAGE DEPTH).
 COLUMN 4 - EARTH EXCAVATION THAT IS TO BE USED AS EMBANKMENT (SHRINKAGE FACTOR 15%).
 COLUMN 5 - FILL QUANTITIES FROM CROSS SECTIONS.
 COLUMN 6 - COLUMN 4 - COLUMN 5 + = OFF-SITE MATERIAL NEEDED OR MATERIAL WASTE.
 POSITIVE (+) = EXTRA EXCAVATION
 NEGATIVE (-) = FURNISHED EXCAVATION NEEDED

NOTES:
 1. TOPSOIL SHALL BE EXCAVATED TO A DEPTH OF 18" IN AREAS DISTURBED BY PROPOSED WORK.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:03:45 PM
 FILE NAME: \\p:\baxwood\com\projects\Crystal Lake\CRYL\170562-Rt 14 at Virginia\CADD\170562-Sht-TypSect.dgn
 FILE PATH: \\p:\baxwood\com\projects\Crystal Lake\CRYL\170562-Rt 14 at Virginia\CADD\170562-Sht-TypSect.dgn



EXISTING TYPICAL SECTION
US RTE 14 (VIRGINIA ST)
 STA 12+81.88 TO STA 15+33.9
US RTE 14 (NORTHWEST HWY)
 STA 15+33.9 TO STA 16+88.14



PROPOSED TYPICAL SECTION
US RTE 14 (VIRGINIA ST)
 STA 12+81.88 TO STA 15+33.9
US RTE 14 (NORTHWEST HWY)
 STA 15+33.9 TO STA 16+88.14

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE (11.5" TO 12" +/-)
- (B) EXISTING SUBGRADE
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (D) CORRUGATED MEDIAN
- (E) PORTLAND CEMENT CONCRETE SIDEWALK
- (F) EXISTING GROUND
- (G) HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- (H) HOT-MIX SURFACE REMOVAL, 2 1/4"
- (I) COMBINATION CURB AND GUTTER REMOVAL (AS DETERMINED BY THE ENGINEER)
- (J) SIDEWALK REMOVAL (AS DETERMINED BY THE ENGINEER)
- (K) MEDIAN REMOVAL
- (L) PAVEMENT REMOVAL
- (Hatched) ITEM TO BE REMOVED

PROPOSED LEGEND

- (1A) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E" N70 - 1 3/4"
- (1B) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (1C) HOT-MIX ASPHALT BASE COURSE - 9"
- (2A) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E" N70 - 1 3/4"
- (2B) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - 2 1/4"
- (2C) HOT-MIX ASPHALT BASE COURSE - 8"
- (3) AGGREGATE BASE COURSE, TYPE B - 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (4A) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY THE ENGINEER)
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (5A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (6) PORTLAND CEMENT CONCRETE SIDEWALK 5"
- (7) CONCRETE MEDIAN SURFACE 4"
- (8) CONCRETE MEDIAN TYPE SB-6.12
- (9) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS DETERMINED BY THE ENGINEER)
- (10) TOPSOIL FURNISH AND PLACE 6" FERTILIZER SODDING, SALT TOLERANT
- (11) CLASS D PATCHES 10" (AS DETERMINED BY THE ENGINEER)
- (12) AGGREGATE BASE COURSE, TYPE B - 13"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

CONTRACTOR SHALL MILL BEFORE PATCHING

MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING - US ROUTE 14 (NORTHWEST HWY)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm): 1-3/4"	4% @70 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50: 3/4"	3.5% @50 GYR.
PAVEMENT WIDENING - US ROUTE 14 (NORTHWEST HWY)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm): 1-3/4"	4% @70 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50: 3/4"	3.5% @50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER N70 IL-19mm): 9"	4% @70 GYR.
PAVEMENT RESURFACING - VIRGINIA ROAD	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm): 1-3/4"	4% @70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: 2-1/4"	4% @70 GYR.
PAVEMENT WIDENING - VIRGINIA ROAD	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm): 1-3/4"	4% @70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: 2-1/4"	4% @70 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER N70 IL-19mm): 8"	4% @70 GYR.
HMA DRIVEWAY PAVEMENT 8"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm): 1-1/2"	4% @ 50 Gyr.
HMA BASE COURSE (HMA BINDER IL-19mm): 6-1/2"	4% @ 50 Gyr.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm) - 10"	4% @ 70 Gyr.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT BINDER COURSE N70 IL-19mm: 4"	4% @ 70 Gyr.

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

THE "AC TYPE" FOR NON-POLYMERIZED HMA SHALL BE "PG 64-22" ON US ROUTE 14 AND "PG 58-28" ON VIRGINIA ROAD, UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

* AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR. POTENTIAL UNDERCUT LOCATIONS ARE LISTED ON EACH TYPICAL SECTION.



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-TypSect.dgn

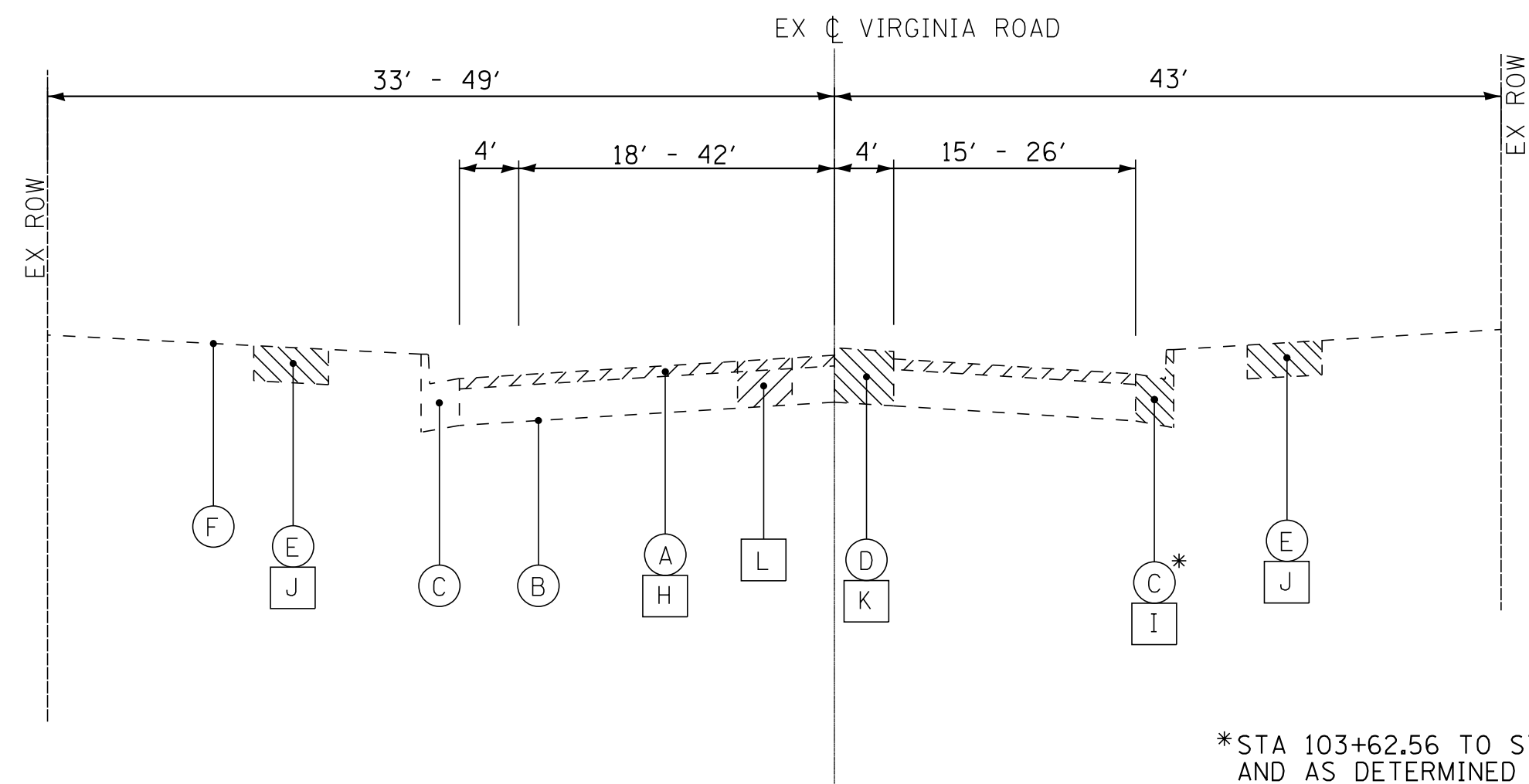
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

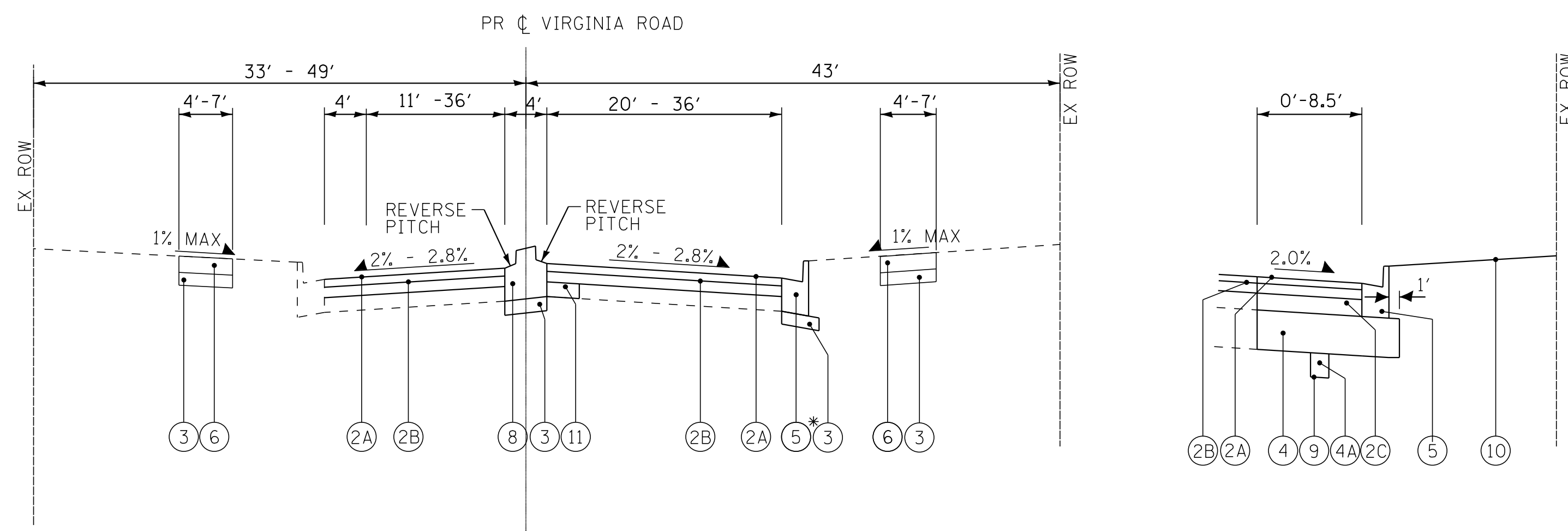
F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 12
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

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

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:40:36 PM
 FILE NAME: \\p:\baxwood\com\projects\Crystal Lake\CRYLIC170562-RT_14.ctb
 FILE PATH: \\p:\baxwood\com\projects\Crystal Lake\CRYLIC170562-RT_14.ctb
 ... \plotdrv\pdf-BW_Default.plt
 ... \CADD\Plots\170562-B&W.tbl
 ... \corp\boxwood\com\projects\Crystal Lake\CRYLIC170562-RT_14.ctb
 ... \corp\boxwood\com\projects\Crystal Lake\CRYLIC170562-RT_14.ctb
 ... \corp\boxwood\com\projects\Crystal Lake\CRYLIC170562-RT_14.ctb



**EXISTING TYPICAL SECTION
 VIRGINIA ROAD**
 STA 103+62.56 TO STA 111+37.35



**PROPOSED TYPICAL SECTION
 VIRGINIA ROAD**
 STA 103+62.56 TO STA 111+37.35

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE (11.5" TO 12" +/-)
- (B) EXISTING SUBGRADE
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (D) CORRUGATED MEDIAN
- (E) PORTLAND CEMENT CONCRETE SIDEWALK
- (F) EXISTING GROUND
- (G) HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- (H) HOT-MIX SURFACE REMOVAL, 2 1/4"
- (I) COMBINATION CURB AND GUTTER REMOVAL (AS DETERMINED BY THE ENGINEER)
- (J) SIDEWALK REMOVAL (AS DETERMINED BY THE ENGINEER)
- (K) MEDIAN REMOVAL
- (L) PAVEMENT REMOVAL
- [Hatched] ITEM TO BE REMOVED

PROPOSED LEGEND

- (1A) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E" N70 - 1 3/4"
- (1B) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (1C) HOT-MIX ASPHALT BASE COURSE - 9"
- (2A) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E" N70 - 1 3/4"
- (2B) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - 2 1/4"
- (2C) HOT-MIX ASPHALT BASE COURSE - 8"
- (3) AGGREGATE BASE COURSE, TYPE B - 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (4A) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY THE ENGINEER)
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (5A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (6) PORTLAND CEMENT CONCRETE SIDEWALK 5"
- (7) CONCRETE MEDIAN SURFACE 4"
- (8) CONCRETE MEDIAN TYPE SB-6.12
- (9) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS DETERMINED BY THE ENGINEER)
- (10) TOPSOIL FURNISH AND PLACE 6" FERTILIZER SODDING, SALT TOLERANT
- (11) CLASS D PATCHES 10" (AS DETERMINED BY THE ENGINEER)
- (12) AGGREGATE BASE COURSE, TYPE B - 13"

* AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR. POTENTIAL UNDERCUT LOCATIONS ARE LISTED ON EACH TYPICAL SECTION.



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-TypSect.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 13
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

Chain US14 contains:
202 CUR US141 203

Beginning chain US14 description

Point 202 N 2,025,424.6500 E 985,578.9680 Sta 10+00.00

Course from 202 to PC US141 S 40° 28' 06.62" E Dist 281.8758

Curve Data

Curve US141
P.I. Station 15+55.84 N 2,025,001.7857 E 985,939.7264
Delta = 50° 11' 21.00" (LT)
Degree = 9° 47' 38.94"
Tangent = 273.9666
Length = 512.4402
Radius = 585.0000
External = 60.9742
Long Chord = 496.2132
Mid. Ord. = 55.2188
P.C. Station 12+81.88 N 2,025,210.2093 E 985,761.9139
P.T. Station 17+94.32 N 2,025,004.9304 E 986,213.6749
C.C. Station N 2,025,589.8919 E 986,206.9601
Back = S 40° 28' 06.62" E
Ahead = N 89° 20' 32.38" E
Chord Bear = S 65° 33' 47.12" E

Course from PT US141 to 203 N 89° 20' 32.38" E Dist 262.1983

Point 203 N 2,025,007.9400 E 986,475.8560 Sta 20+56.51

Ending chain US14 description

Chain VIRGINIA contains:
200 CUR VIRGINIA1 201

Beginning chain VIRGINIA description

Point 200 N 2,024,116.2750 E 986,698.4310 Sta 100+00.00

Course from 200 to PC VIRGINIA1 N 40° 40' 21.90" W Dist 973.8998

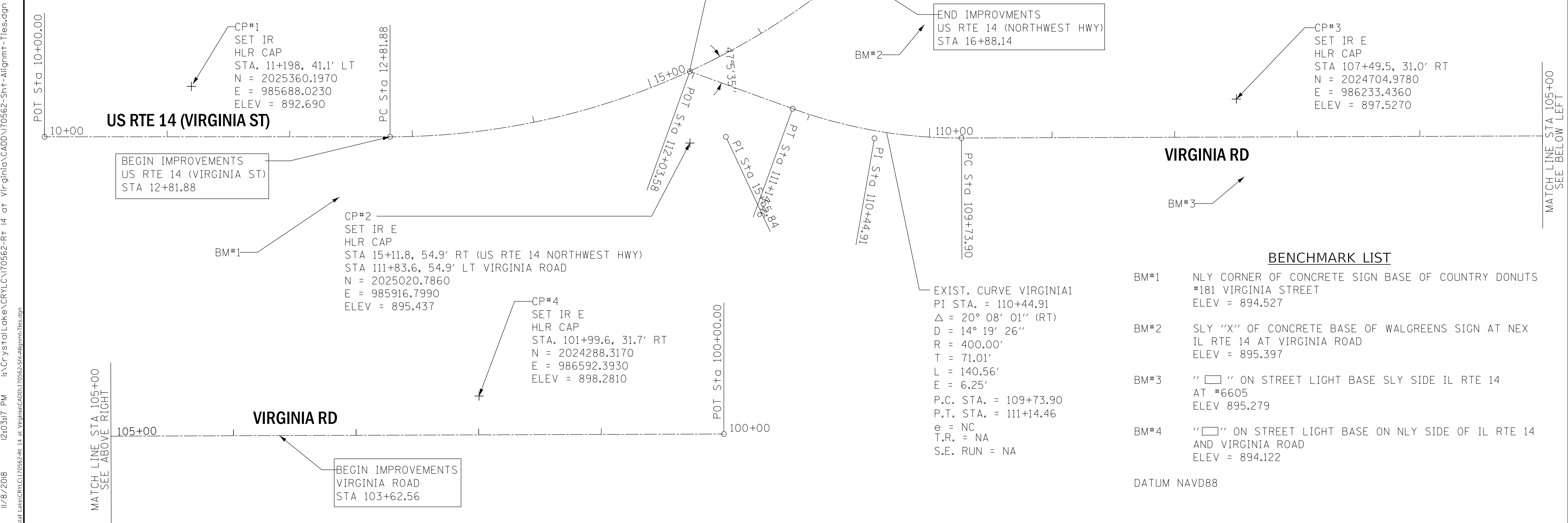
Curve Data

Curve VIRGINIA1
P.I. Station 110+44.91 N 2,024,908.7826 E 986,017.4224
Delta = 20° 08' 01.41" (RT)
Degree = 14° 19' 26.20"
Tangent = 71.0122
Length = 140.5599
Radius = 400.0000
External = 6.2545
Long Chord = 139.8378
Mid. Ord. = 6.1582
P.C. Station 109+73.90 N 2,024,854.9238 E 986,063.7038
P.T. Station 111+14.46 N 2,024,975.2808 E 985,992.5081
C.C. Station N 2,025,115.6189 E 986,367.0815
Back = N 40° 40' 21.90" W
Ahead = N 20° 32' 20.49" W
Chord Bear = N 30° 36' 21.19" W

Course from PT VIRGINIA1 to 201 N 20° 32' 20.49" W Dist 89.1186

Point 201 N 2,025,058.7344 E 985,961.2413 Sta 112+03.58

Ending chain VIRGINIA description



EXIST. CURVE US141
PI STA. = 15+55.84
Δ = 50° 11' 21" (LT)
D = 9° 47' 39"
R = 585.00'
T = 273.97'
L = 512.44'
E = 60.97'
P.C. STA. = 12+81.88
P.T. STA. = 17+94.32
e = 3.4%
T.R. = 50'
S.E. RUN = 100'

END IMPROVEMENTS
US RTE 14 (NORTHWEST HWY)
STA 16+88.14

BEGIN IMPROVEMENTS
US RTE 14 (VIRGINIA ST)
STA 12+81.88

BEGIN IMPROVEMENTS
VIRGINIA ROAD
STA 103+62.56

BENCHMARK LIST

BM#1	NLY CORNER OF CONCRETE SIGN BASE OF COUNTRY DONUTS #181 VIRGINIA STREET ELEV = 894.527
BM#2	SLY "X" OF CONCRETE BASE OF WALGREENS SIGN AT NEX IL RTE 14 AT VIRGINIA ROAD ELEV = 895.397
BM#3	"□" ON STREET LIGHT BASE SLY SIDE IL RTE 14 AT #6605 ELEV 895.279
BM#4	"□" ON STREET LIGHT BASE ON NLY SIDE OF IL RTE 14 AND VIRGINIA ROAD ELEV = 894.122

DATUM NAVD88

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:03:17 PM
 FILE NAME: I:\C:\Users\Baker\OneDrive\Illinois\170562-Sht-Alignmt-Ties.dgn



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
DRAWN - UKB	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-Alignmt-Ties.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, CONTROL POINTS AND BENCHMARK LIST

SCALE: 1"=40'	SHEET	OF	SHEETS	STA.	TO	STA.
---------------	-------	----	--------	------	----	------

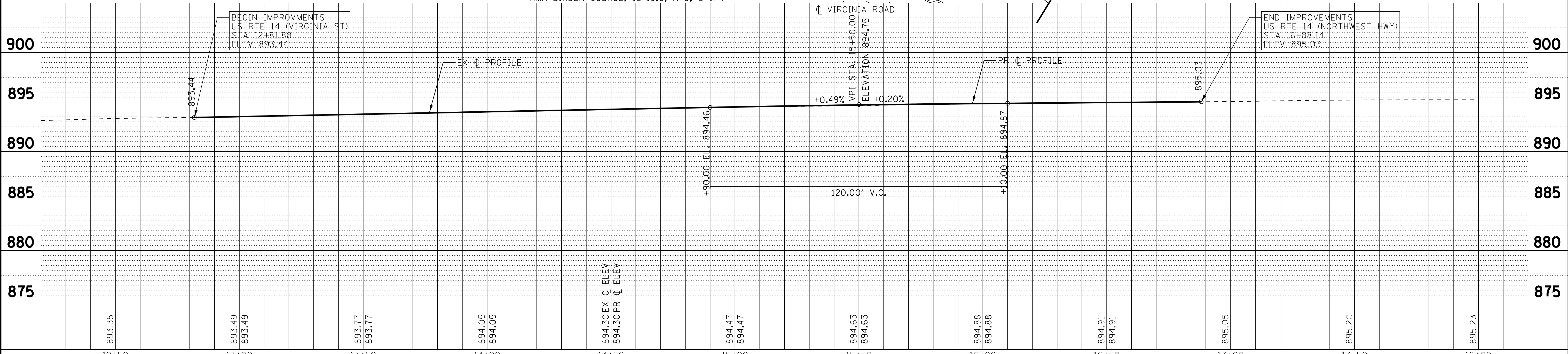
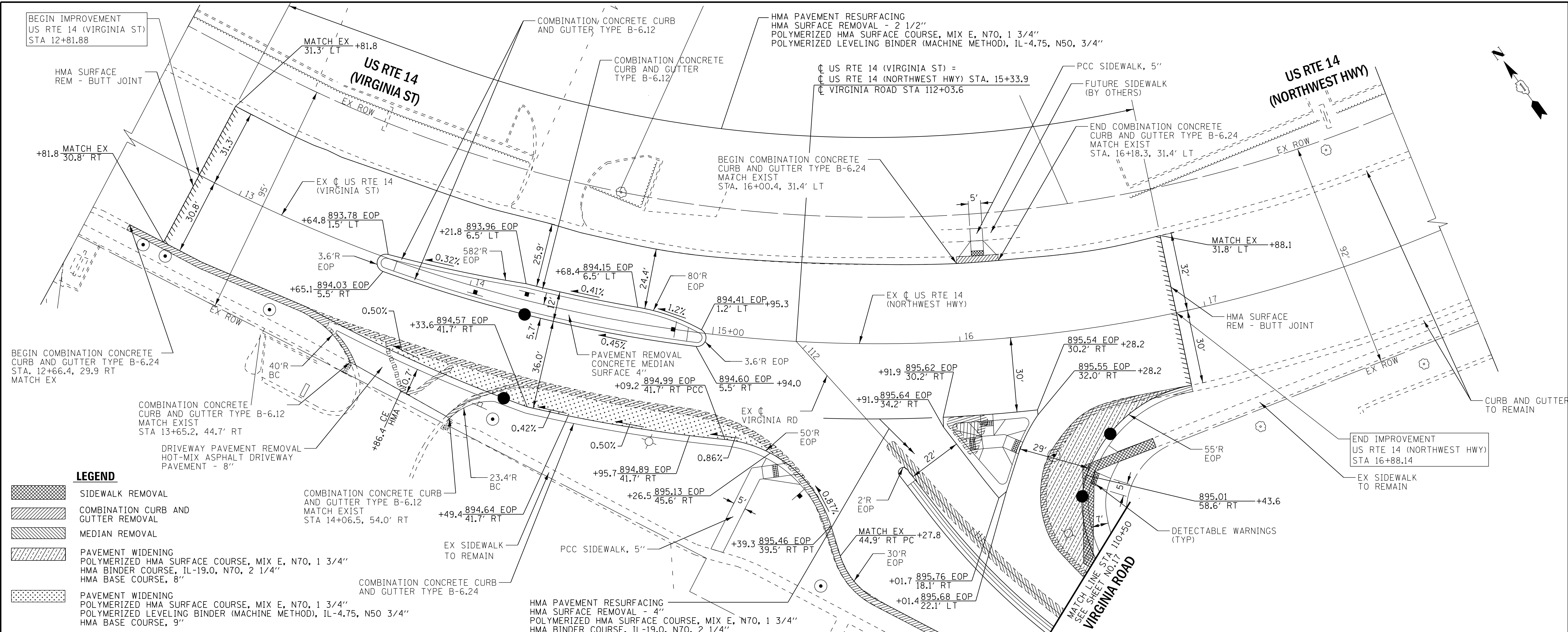
F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 14
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK31554				

MATCH LINE STA 105+00
SEE BELOW LEFT

DATE	
BY	
PLAN	SURVEYED
	ALIGNED
	CHECKED
	PLOTTED
	FILED
	NO. _____
	DATE _____

DATE	
BY	
PROFILE	SURVEYED
	GRADES
	CHECKED
	PLOTTED
	FILED
	NO. _____
	DATE _____

COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF BAXTER & WOODMAN, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM BAXTER & WOODMAN, INC.
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR
 MODEL: Deliaul
 FILE NAME: J:\Crystal Lake\CR1\170562-Rt 14 at Virginia\CAD\170562-Sht-PP1-Rte14.dgn



USER NAME = 560KAR	DESIGNED - LIK	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 20.0000" / in.	CHECKED - DIS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-PP1-Rte14.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

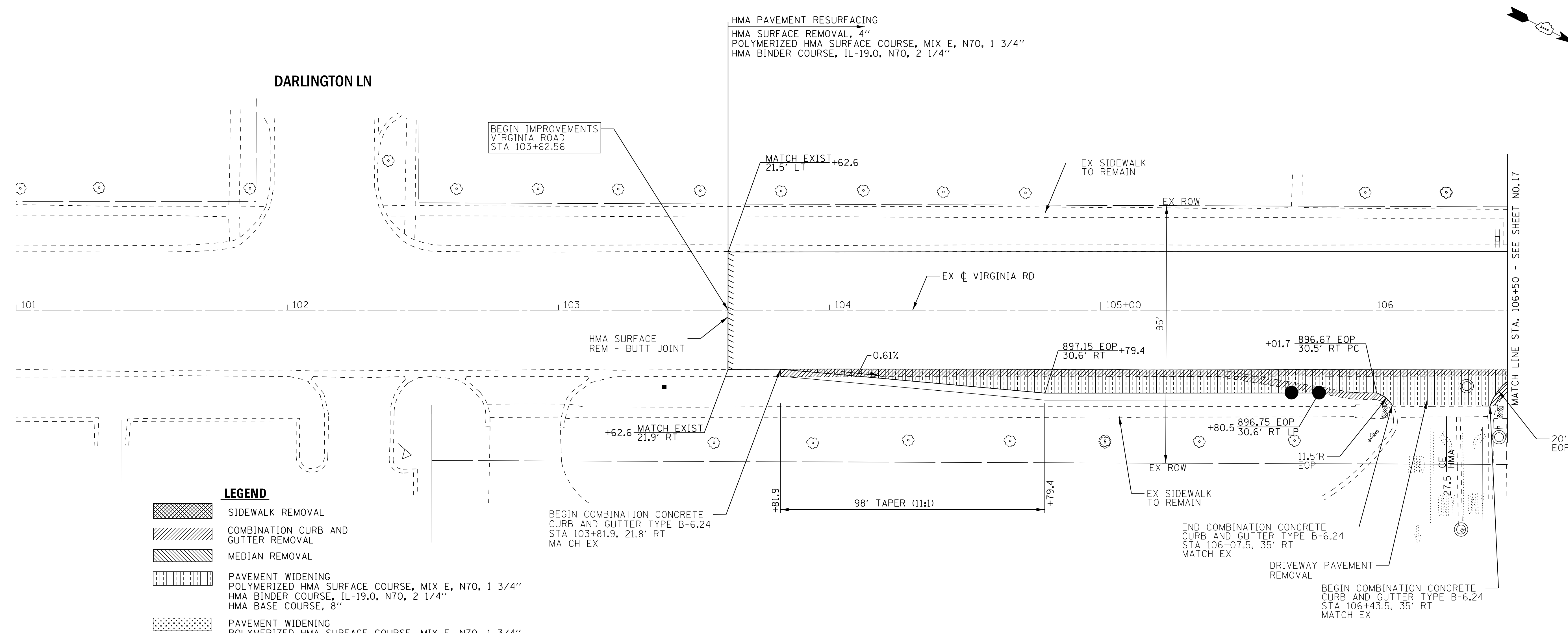
PLAN AND PROFILE	
US RTE 14 (VIRGINIA ST) & US RTE 14 (NORTHWEST HWY)	
SCALE: H:1"-20' V:1"-5'	SHEET OF SHEETS
STA. 12+50	TO STA. 18+00

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 15
ILLINOIS FED. AID PROJECT QIK3(554)			CONTRACT NO. 61F23	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	CADD FILE NAME	
	NOTE BOOK NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	CADD FILE NAME	
	NOTE BOOK NO.	

COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF BAXTER & WOODMAN, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM BAXTER & WOODMAN, INC.
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 MODEL: D:\delat\w\corp\boxwood\com\projects\Cystal Lake\CRY1\170562-Sht-PP2-VirginiaRd.dgn
 FILE NAME: \corp\boxwood\com\projects\Cystal Lake\CRY1\170562-Sht-PP2-VirginiaRd.dgn



USER NAME = 560KAR	DESIGNED - LIJ	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-PP2-VirginiaRd.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: H:1"=20' V:1"=5'		SHEET	OF	SHEETS	STA. 101+00	TO STA. 106+50
-------------------------	--	-------	----	--------	-------------	----------------

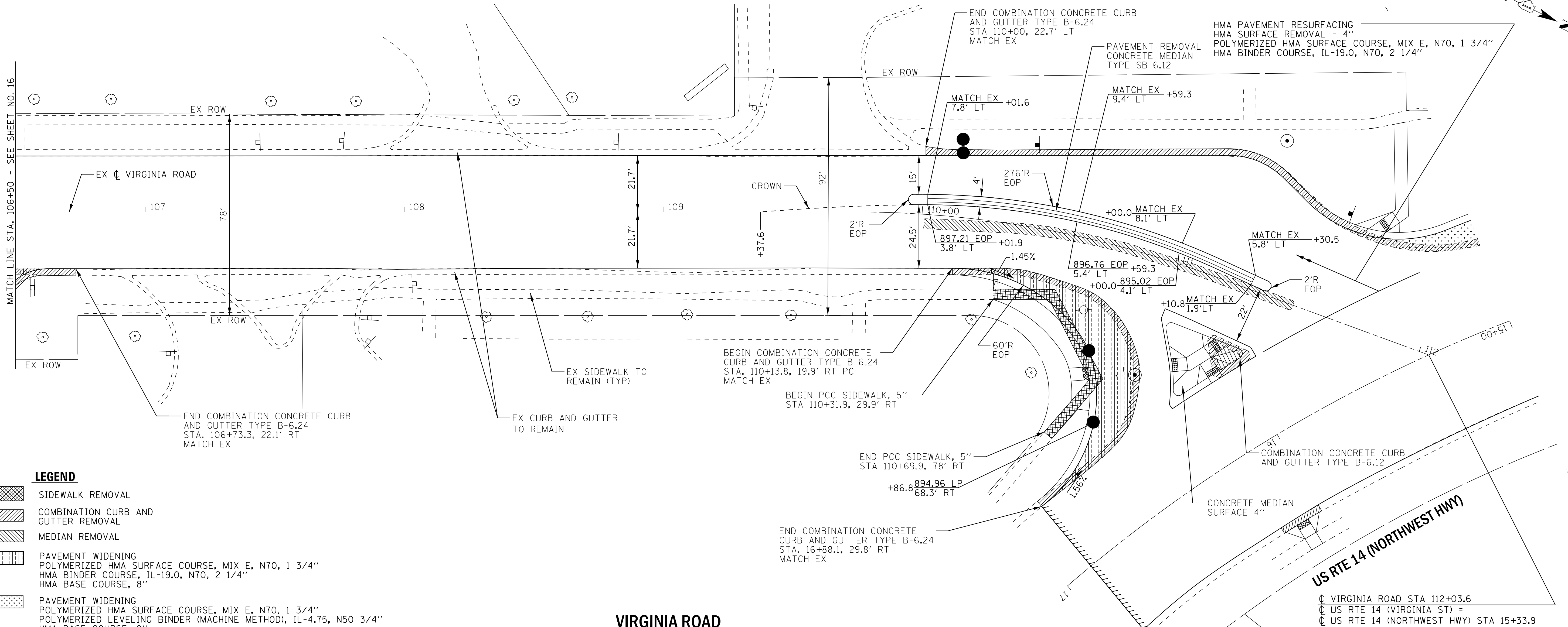
PLAN AND PROFILE
VIRGINIA ROAD

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 16
ILLINOIS FED. AID PROJECT QIK3(554)			CONTRACT NO. 61F23	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	

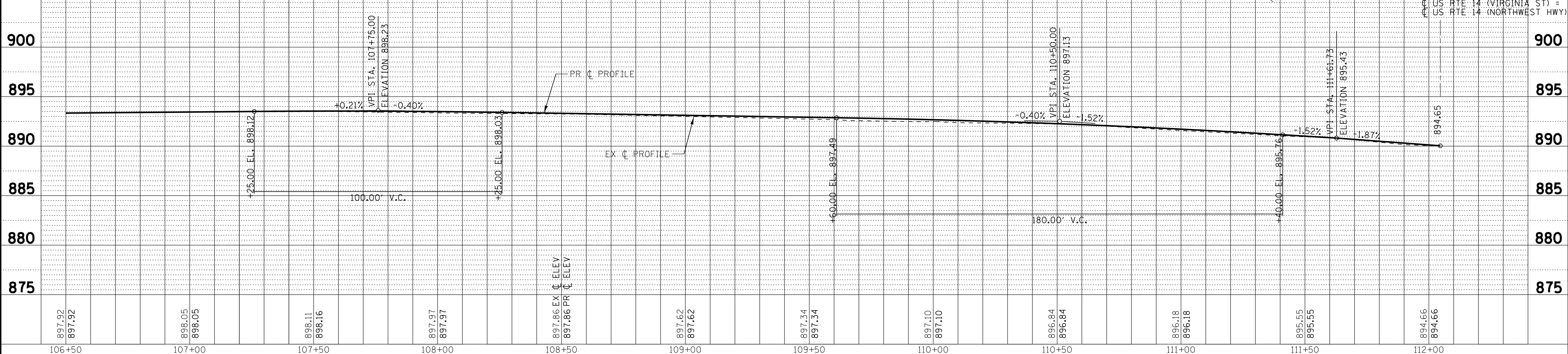
COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF BAXTER & WOODMAN, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BAXTER & WOODMAN, INC.
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 MODEL: Deliault
 FILE NAME: \\corp.baxwood.com\projects\Crystal Lake\CRY170562-Rt-14 at Virginia\CAD\170562-Sht-PP3-VirginiaRd.dgn



LEGEND

	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	MEDIAN REMOVAL
	PAVEMENT WIDENING
	POLYMERIZED HMA SURFACE COURSE, MIX E, N70, 1 3/4"
	HMA BINDER COURSE, IL-19.0, N70, 2 1/4"
	HMA BASE COURSE, 8"
	PAVEMENT WIDENING
	POLYMERIZED HMA SURFACE COURSE, MIX E, N70, 1 3/4"
	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 3/4"
	HMA BASE COURSE, 9"

VIRGINIA ROAD



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-PP3-VirginiaRd.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE	
VIRGINIA ROAD	
SCALE: H:1"=20' V:1"=5'	SHEET OF SHEETS
STA. 106+50	TO STA. 112+03.6

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 17
ILLINOIS FED. AID PROJECT QIK3(554)			CONTRACT NO. 61F23	

MAINTENANCE SCHEDULE

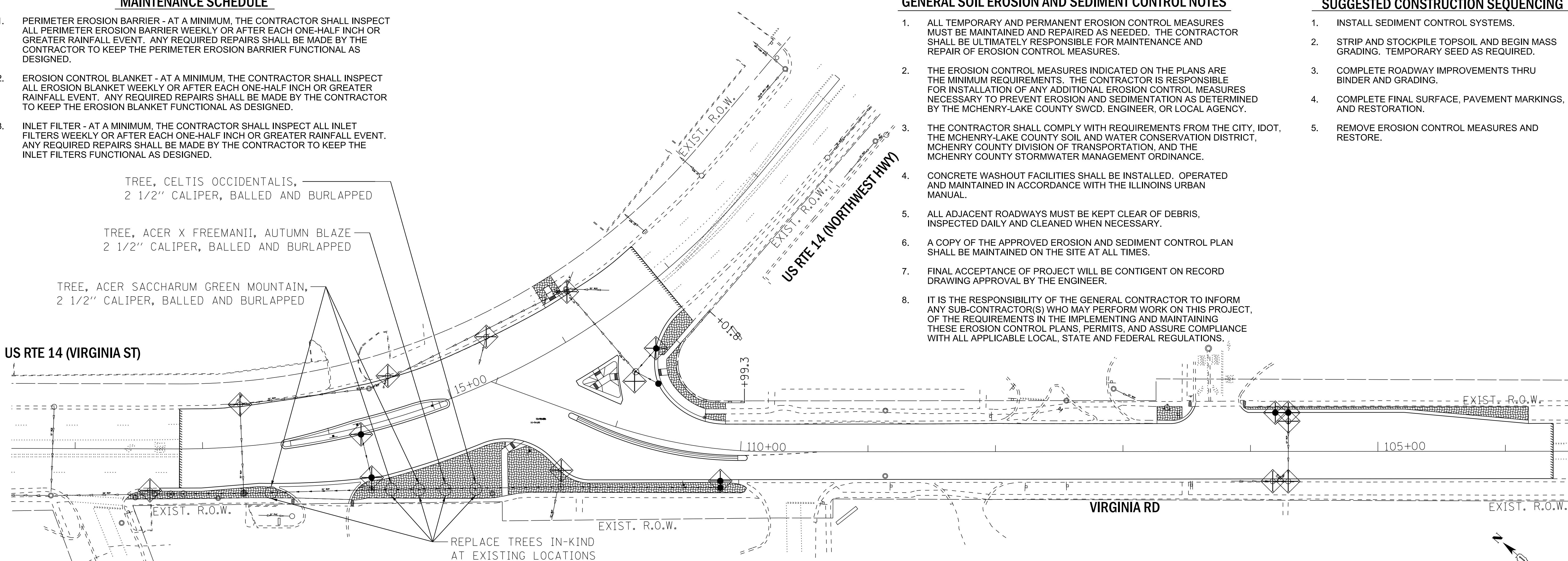
1. PERIMETER EROSION BARRIER - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL PERIMETER EROSION BARRIER WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE PERIMETER EROSION BARRIER FUNCTIONAL AS DESIGNED.
2. EROSION CONTROL BLANKET - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL EROSION BLANKET WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE EROSION BLANKET FUNCTIONAL AS DESIGNED.
3. INLET FILTER - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL INLET FILTERS WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE INLET FILTERS FUNCTIONAL AS DESIGNED.

TREE, CELTIS OCCIDENTALIS,
2 1/2" CALIPER, BALLED AND BURLAPPED

TREE, ACER X FREEMANII, AUTUMN BLAZE
2 1/2" CALIPER, BALLED AND BURLAPPED

TREE, ACER SACCHARUM GREEN MOUNTAIN,
2 1/2" CALIPER, BALLED AND BURLAPPED

US RTE 14 (VIRGINIA ST)



REPLACE TREES IN-KIND
AT EXISTING LOCATIONS

GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR OF EROSION CONTROL MEASURES.
2. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE MCHENRY-LAKE COUNTY SWCD, ENGINEER, OR LOCAL AGENCY.
3. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FROM THE CITY, IDOT, THE MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT, MCHENRY COUNTY DIVISION OF TRANSPORTATION, AND THE MCHENRY COUNTY STORMWATER MANAGEMENT ORDINANCE.
4. CONCRETE WASHOUT FACILITIES SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
5. ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
7. FINAL ACCEPTANCE OF PROJECT WILL BE CONTINGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.
8. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN THE IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS, PERMITS, AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SUGGESTED CONSTRUCTION SEQUENCING

1. INSTALL SEDIMENT CONTROL SYSTEMS.
2. STRIP AND STOCKPILE TOPSOIL AND BEGIN MASS GRADING. TEMPORARY SEED AS REQUIRED.
3. COMPLETE ROADWAY IMPROVEMENTS THRU BINDER AND GRADING.
4. COMPLETE FINAL SURFACE, PAVEMENT MARKINGS, AND RESTORATION.
5. REMOVE EROSION CONTROL MEASURES AND RESTORE.

MCHENRY COUNTY STANDARD SOIL EROSION AND SEDIMENT CONTROL NOTES

1. CONTROL MEASURES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL (WWW.AISWCD.ORG/IUM) UNLESS STATED OTHERWISE.
2. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
3. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
4. STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
5. NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
6. OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, NECESSARY TO PREVENT EROSION.
7. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
8. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS OF THESE TIME FRAMES ARE SPECIFIED BELOW:
 - A. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; AND
 - B. IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
9. DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.
10. PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
11. THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
12. IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AND EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR AN EQUIVALENT CONTROL MEASURE). THE ENFORCEMENT OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
13. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE DEVELOPMENT SITE IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
14. STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
15. EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
 - A. MINIMIZE THE DISCHARGE OR POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND
 - B. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.
16. ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE APPLICANT SHALL NOT CAUSE OR PERMIT THE DUMPING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
17. THE ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON DEVELOPMENT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.

LEGEND

- PERIMETER EROSION BARRIER
- INLET FILTERS
- SODDING, SALT TOLERANT FERTILIZER
- PROPOSED TREE

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:03:24 PM
 FILE NAME: I:\Projects\LakeCreek\170562-Rt 14 at Virginia\170562-Sht-Eros.dgn
 FILE PATH: I:\Projects\LakeCreek\170562-Rt 14 at Virginia\CADD\170562-Sht-Eros.dgn



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-Eros1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN			
US RTE 14 (VIRGINIA ST) & US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD			
SCALE: 1" = 40'	SHEET	OF SHEETS	STA. TO STA.

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 18
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

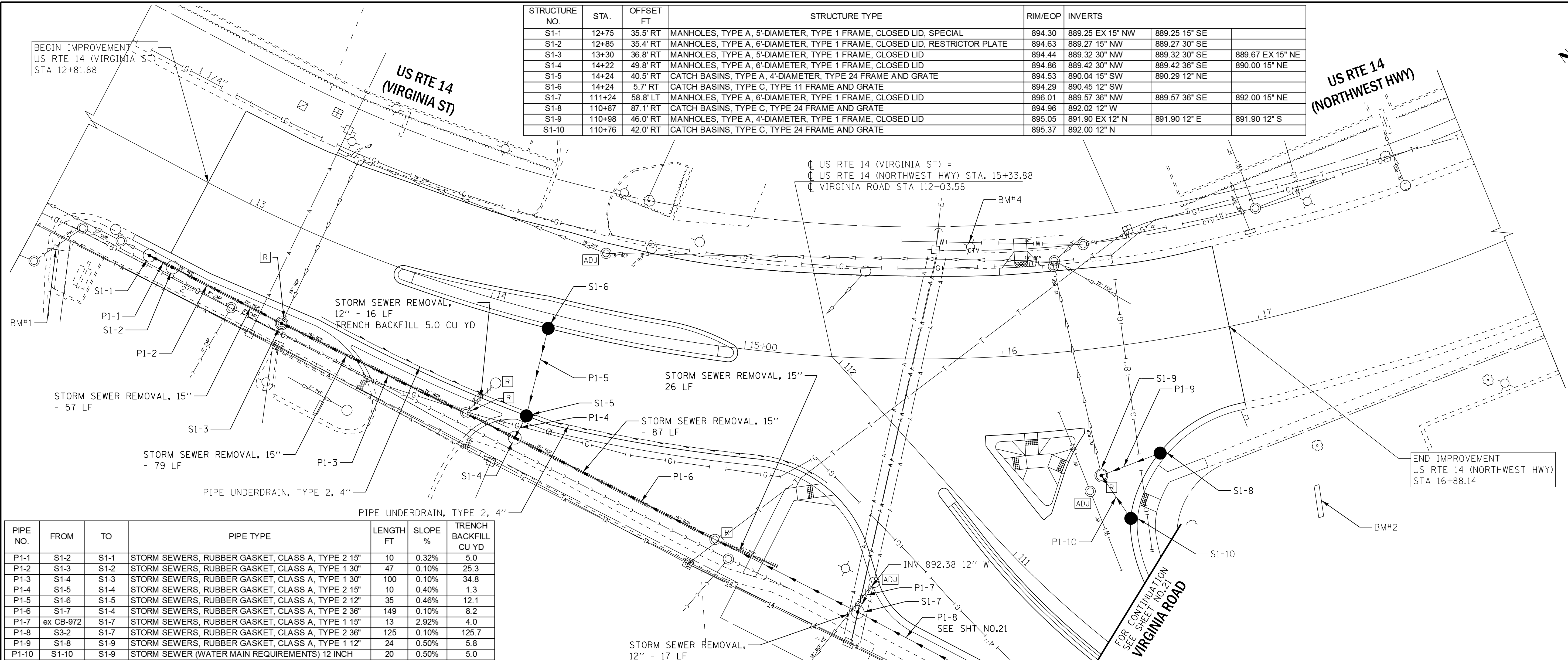
MATCH LINE STA. 104+50 - SEE BELOW LEFT

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	
	NO.	

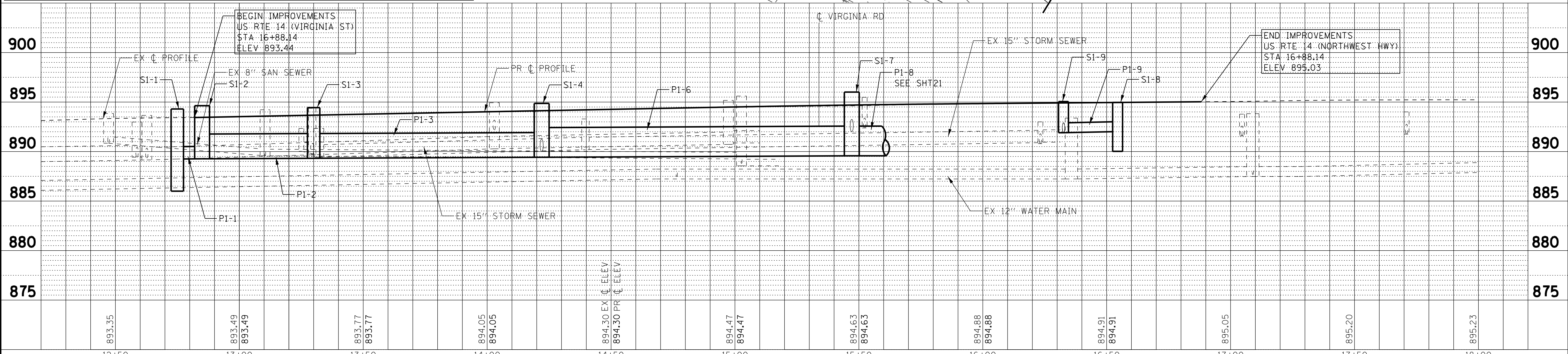
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	
	NO.	

COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 ALL RIGHTS RESERVED.
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR
 MODEL: Deliaul
 FILE NAME: J:\Crystal Lake\CR1\170562-Rt 14 at Virginia\CAD\170562-Sht-DU1-Rte14.dgn

STRUCTURE NO.	STA.	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S1-1	12+75	35.5' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	894.30	889.25 EX 15" NW 889.25 15" SE
S1-2	12+85	35.4' RT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	894.63	889.27 15" NW 889.27 30" SE
S1-3	13+30	36.8' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	894.44	889.32 30" NW 889.32 30" SE
S1-4	14+22	49.8' RT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	894.86	889.42 30" NW 889.42 36" SE
S1-5	14+24	40.5' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	894.53	890.04 15" SW 890.29 12" NE
S1-6	14+24	5.7' RT	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	894.29	890.45 12" SW
S1-7	111+24	58.8' LT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	896.01	889.57 36" NW 889.57 36" SE
S1-8	110+87	87.1' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	894.96	892.02 12" W
S1-9	110+98	46.0' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	895.05	891.90 EX 12" N 891.90 12" E
S1-10	110+76	42.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	895.37	892.00 12" N



PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P1-1	S1-2	S1-1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	10	0.32%	5.0
P1-2	S1-3	S1-2	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 30"	47	0.10%	25.3
P1-3	S1-4	S1-3	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 30"	100	0.10%	34.8
P1-4	S1-5	S1-4	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	10	0.40%	1.3
P1-5	S1-6	S1-5	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	35	0.46%	12.1
P1-6	S1-7	S1-4	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"	149	0.10%	8.2
P1-7	ex CB-972	S1-7	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	13	2.92%	4.0
P1-8	S3-2	S1-7	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"	125	0.10%	125.7
P1-9	S1-8	S1-9	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	24	0.50%	5.8
P1-10	S1-10	S1-9	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	20	0.50%	5.0



STA.	USER NAME = 560KAR	DESIGNED - LJK	REVISED -	STA.	USER NAME = 560KAR	DESIGNED - LJK	REVISED -
12+50				14+50			
13+00				15+00			
13+50				16+00			
14+00				16+50			
14+50				17+00			
15+00				17+50			
15+50				18+00			



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
 US RTE 14 (VIRGINIA ST) & US RTE 14 (NORTHWEST HWY)

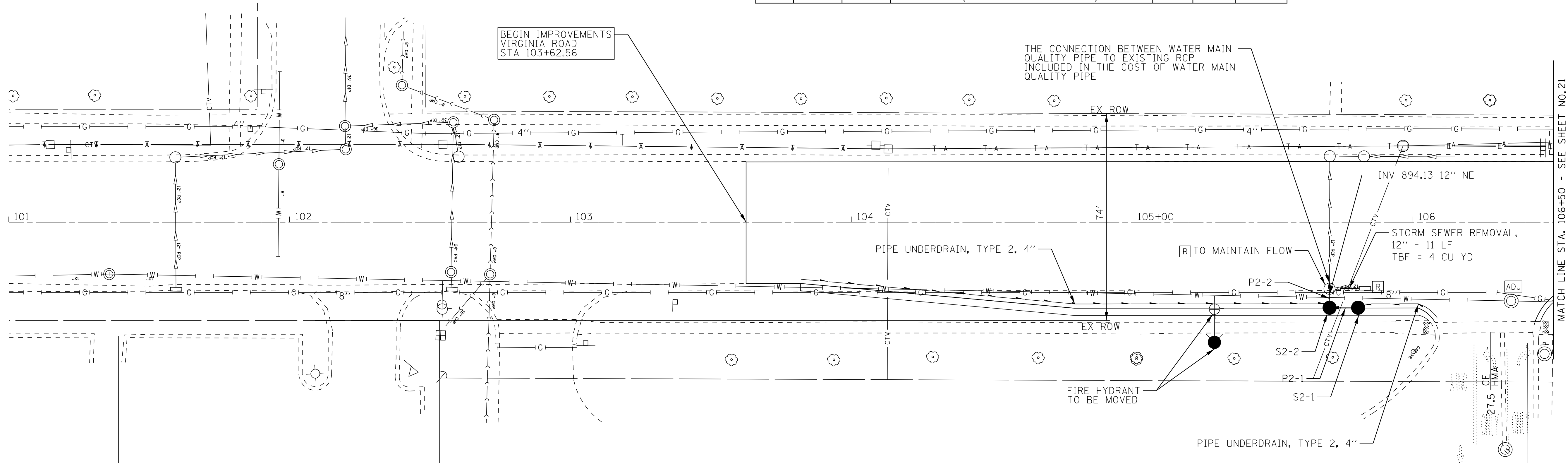
F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 19
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

SCALE: H:1"=20' V:1"=5' SHEET OF SHEETS STA. TO STA.

STRUCTURE NO.	STA.	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S2-1	105+80	30.4' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	896.75	894.22 12" SE
S2-2	105+70	30.4' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	896.79	894.17 12" SW 894.17 12" NW

PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P2-1	S2-1	S2-2	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	10	0.49%	1.9
P2-2	S2-2	ex 12 in	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	9	0.54%	1.8

DARLINGTON LN



VIRGINIA ROAD



PLAN	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

PROFILE	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

Copyright © 2018 by BAXTER & WOODMAN, INC. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of BAXTER & WOODMAN, INC. License No. 184-00121 - Expires 4/30/2019. File Name: J:\Crystal Lake\CRYL\170562-Rt-1d-at-Virginia\CAD\170562-Sht-DU2-VirginiaRd.dgn



USER NAME = 560KAR	DESIGNED - LIJ	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-DU2-VirginiaRd.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

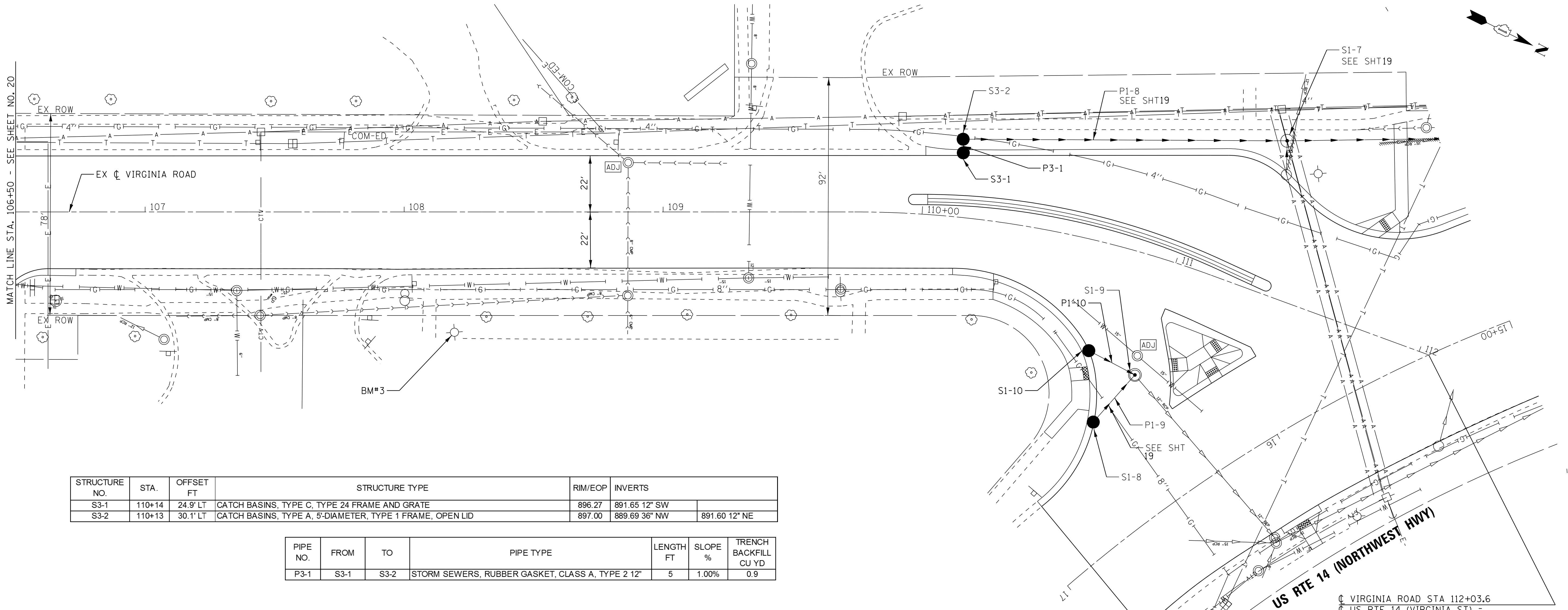
DRAINAGE AND UTILITIES		F.A.P./F.A.U. R.T.E. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 20
SCALE: H:1"=20' V:1"=5'		SHEET OF SHEETS		STA. 101+00 TO STA. 106+50	CONTRACT NO. 61F23	
ILLINOIS FED. AID PROJECT QIK3(554)						

MATCH LINE STA. 106+50 - SEE SHEET NO. 21

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNMENT CHECKED
	NOTE BOOK
	NO.
	CADD FILE NAME

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	NOTE BOOK
	NO.
	CADD FILE NAME

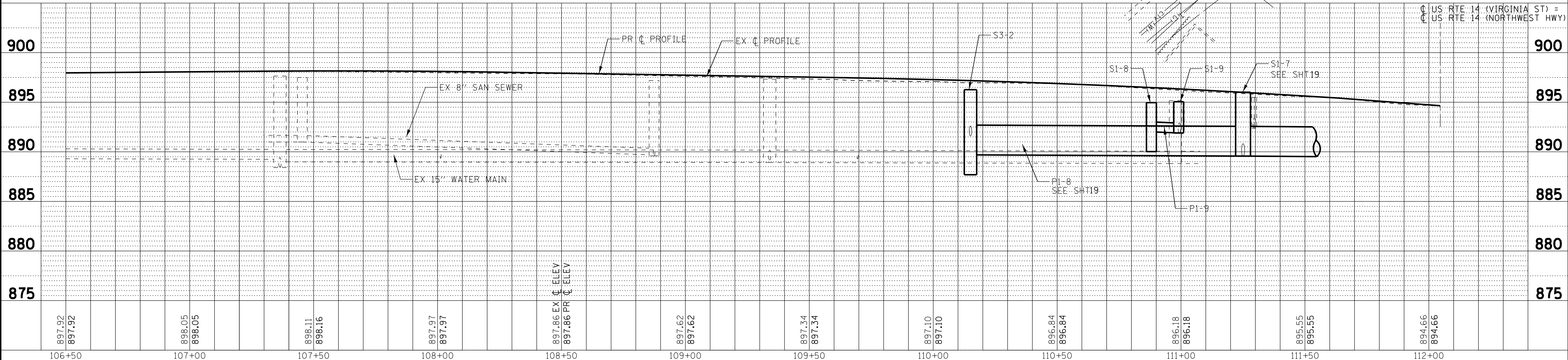
COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF BAXTER & WOODMAN, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM BAXTER & WOODMAN, INC.
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR - 11/8/2018
 MODEL: Deliaul
 FILE NAME: \\corp.baxwood.com\projects\Civil\170562-Rt-14 at Virginia\CAD\170562-Sht-DU-VirginiaRd.dgn



STRUCTURE NO.	STA.	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S3-1	110+14	24.9' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	896.27	891.65 12" SW
S3-2	110+13	30.1' LT	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	897.00	889.69 36" NW 891.60 12" NE

PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P3-1	S3-1	S3-2	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	5	1.00%	0.9

VIRGINIA ROAD

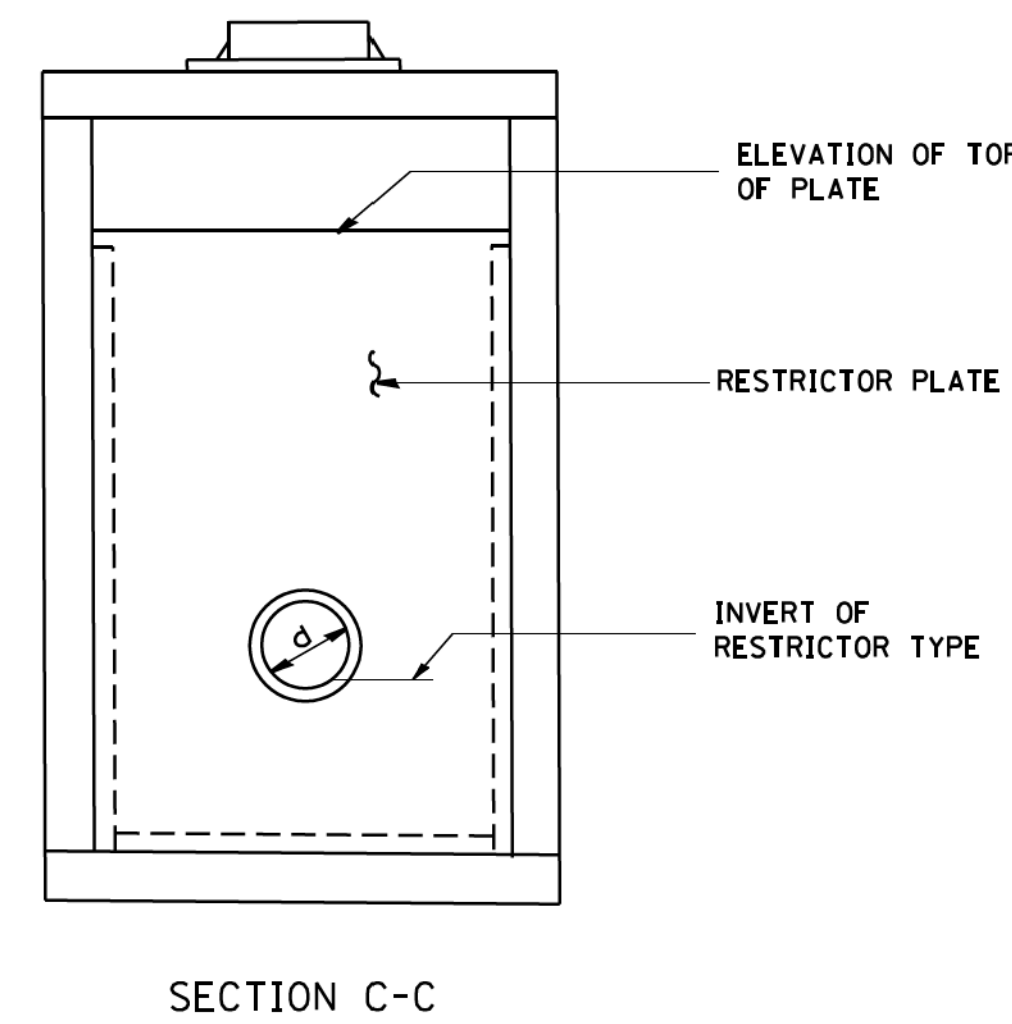
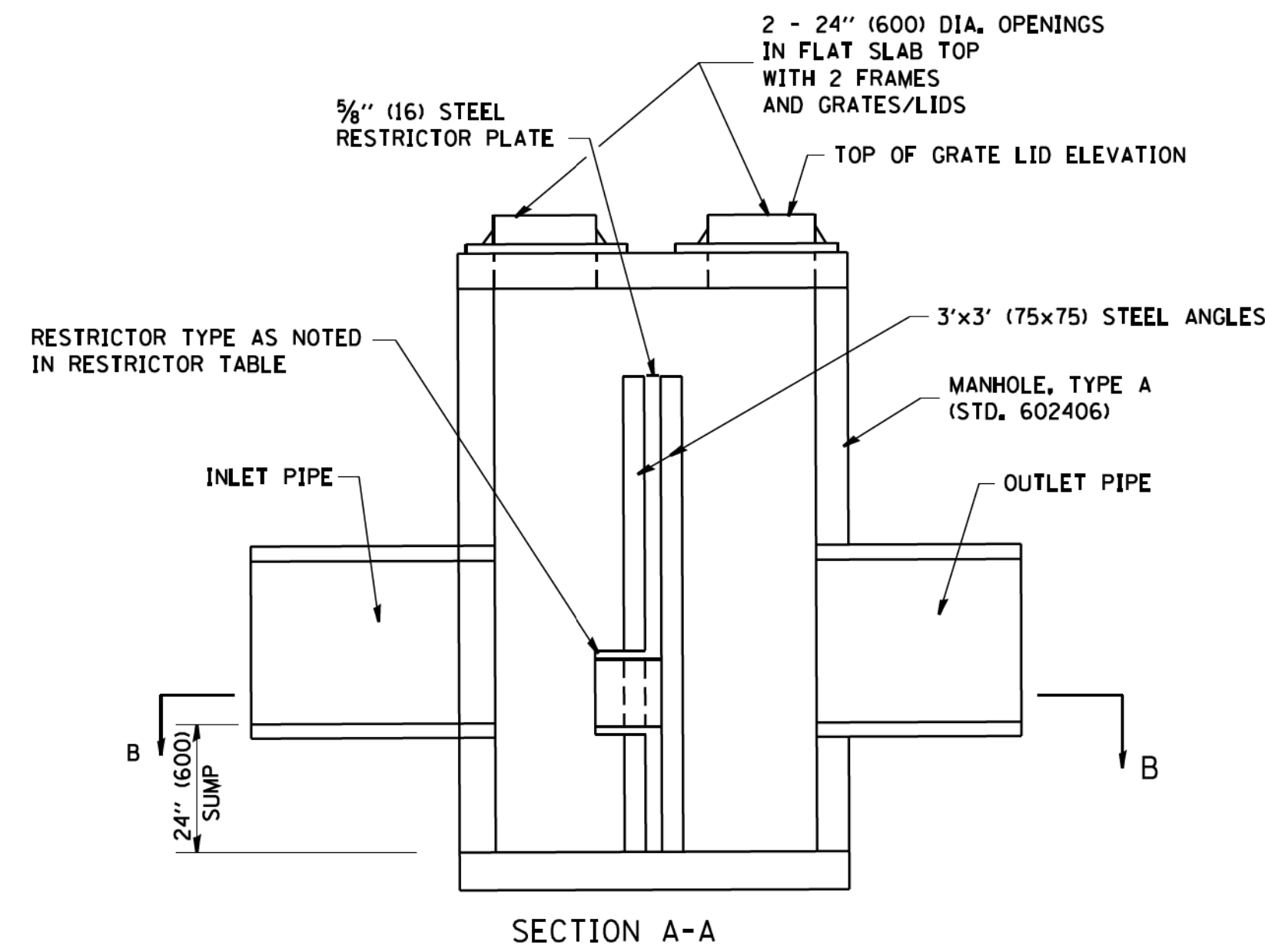
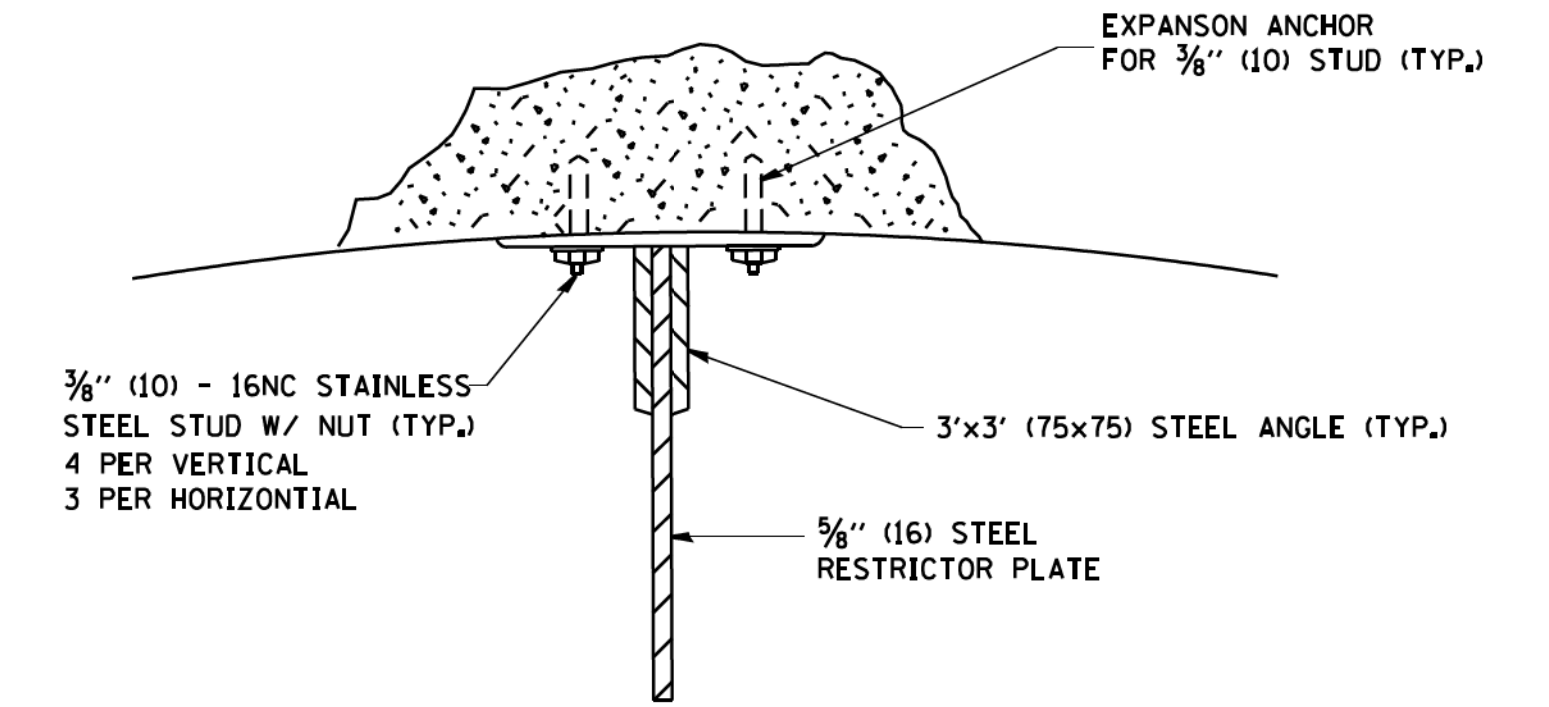
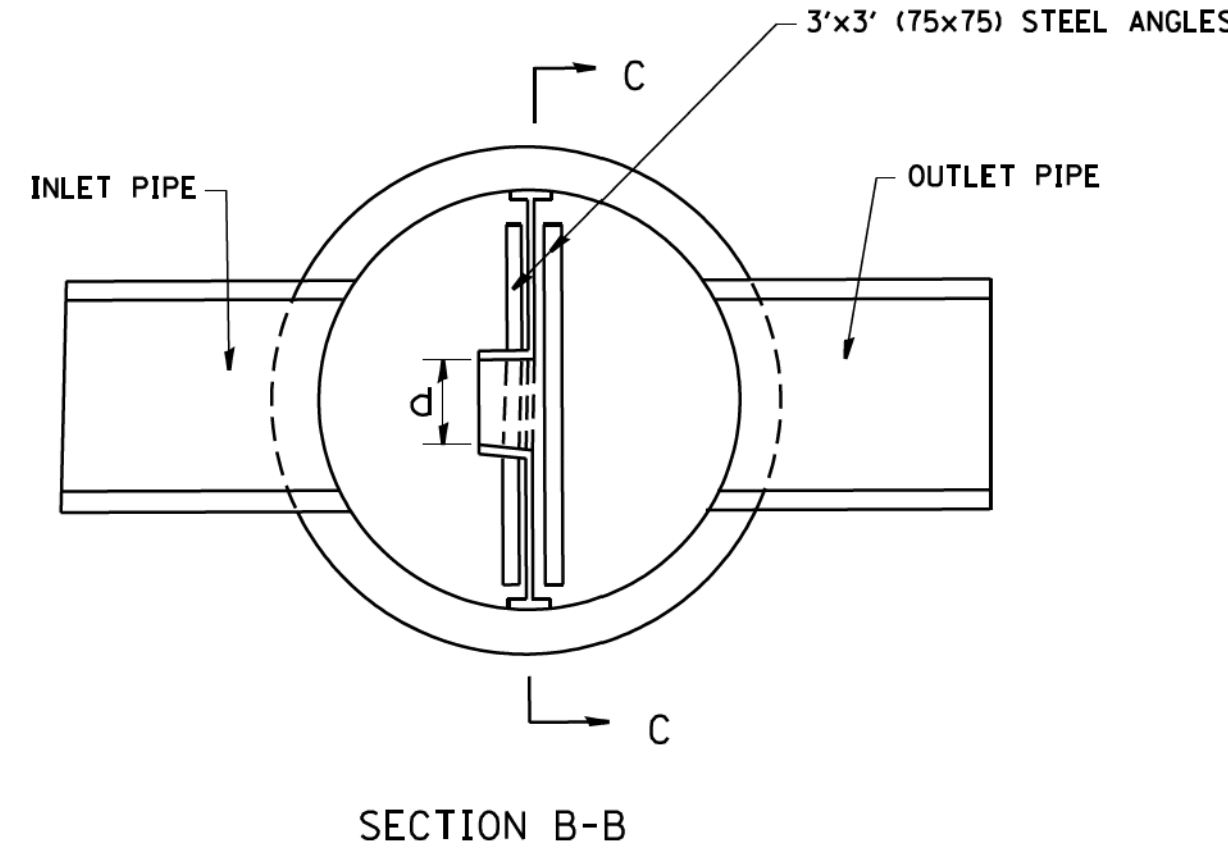
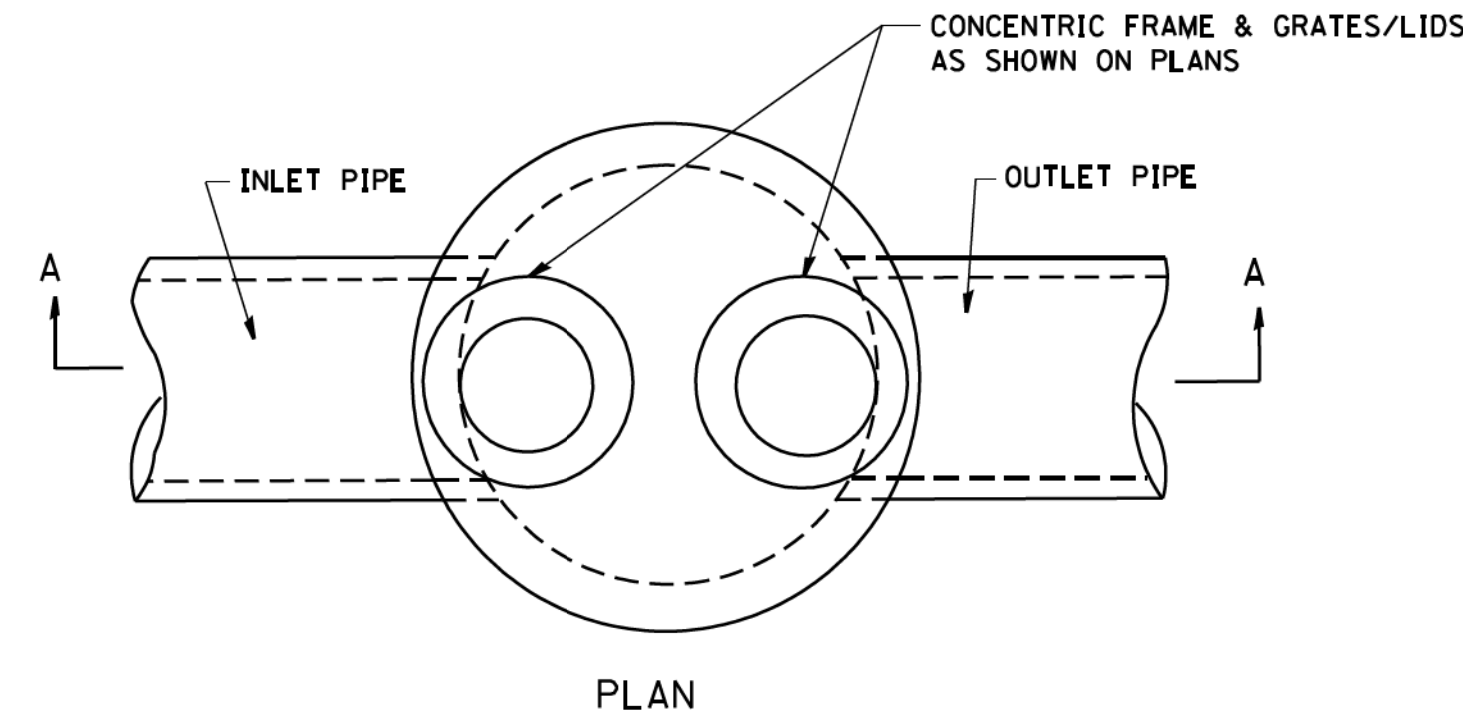


USER NAME = 560KAR	DESIGNED - LJK	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-DU-VirginiaRd.dgn

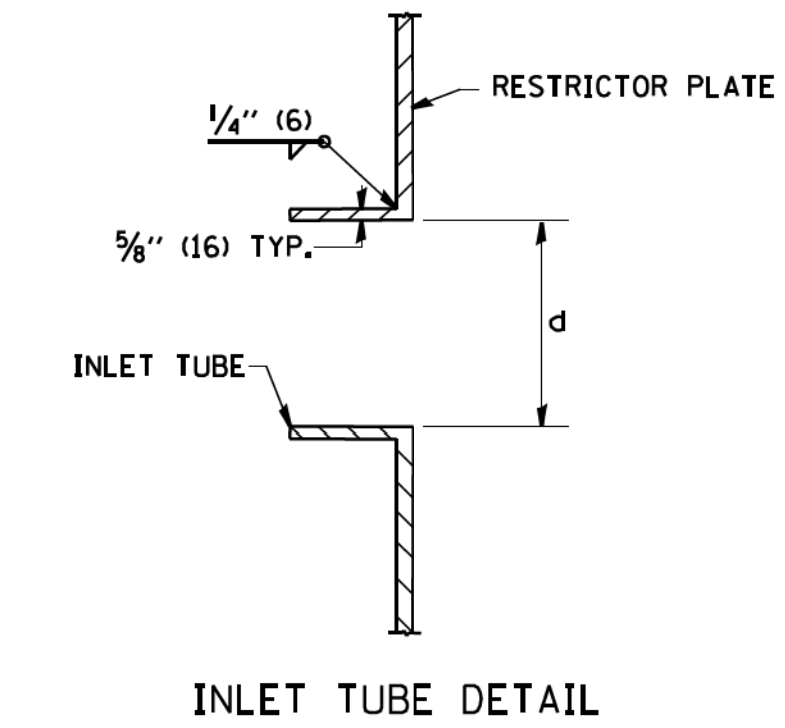
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES	
VIRGINIA ROAD	
SCALE:	SHEET OF SHEETS STA. TO STA.

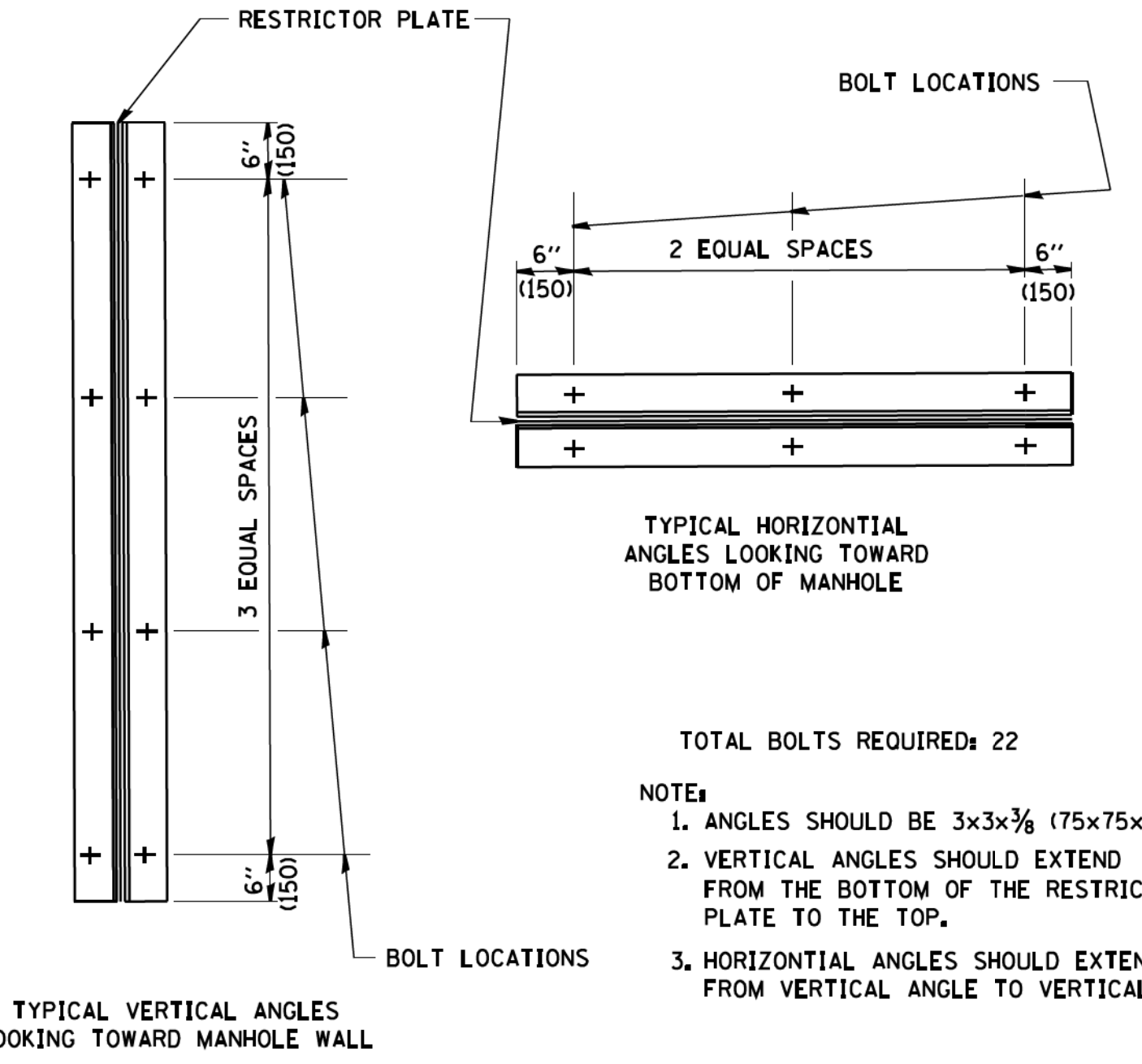
F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 21
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW	
S1-2	12+85	6'	T-1 CL	2	12	889.27	892.63



- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
 2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:03:29 PM
 FILE NAME: W:\d\stata\22x34\bal2.dgn
 USER NAME: geglanoob
 DESIGNED - R. SHAH
 DRAWN -
 CHECKED -
 PLOT DATE = 1/4/2008
 REVISED - R. SHAH 10-25-94
 REVISED - E. GOMEZ 08-28-00
 REVISED - M. GOMEZ 01-08-01
 REVISED -
 DATE - 09-09-94
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 MANHOLE WITH RESTRICTOR PLATE
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

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

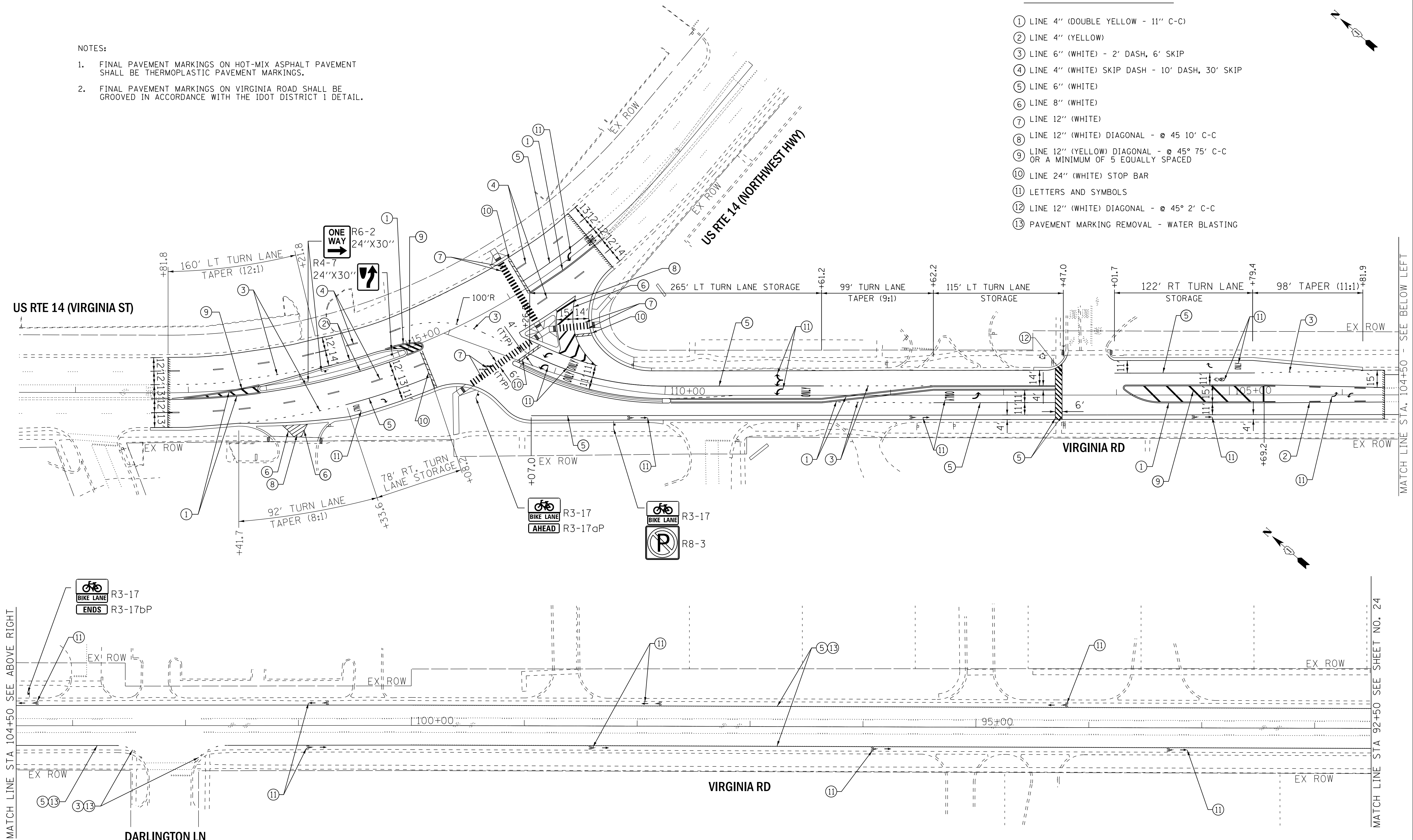
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305-0121	17-00125-00-CH	McHENRY	70	22
BD600-04 (BD-12)		CONTRACT NO. 61F23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554				

PAVEMENT MARKING LEGEND

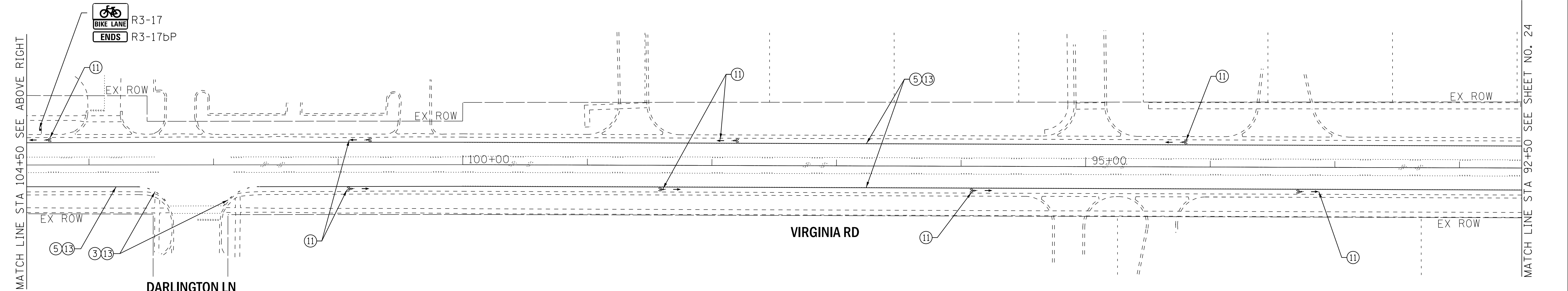
- ① LINE 4" (DOUBLE YELLOW - 11" C-C)
- ② LINE 4" (YELLOW)
- ③ LINE 6" (WHITE) - 2' DASH, 6' SKIP
- ④ LINE 4" (WHITE) SKIP DASH - 10' DASH, 30' SKIP
- ⑤ LINE 6" (WHITE)
- ⑥ LINE 8" (WHITE)
- ⑦ LINE 12" (WHITE)
- ⑧ LINE 12" (WHITE) DIAGONAL - @ 45° 10' C-C
- ⑨ LINE 12" (YELLOW) DIAGONAL - @ 45° 75' C-C OR A MINIMUM OF 5 EQUALLY SPACED
- ⑩ LINE 24" (WHITE) STOP BAR
- ⑪ LETTERS AND SYMBOLS
- ⑫ LINE 12" (WHITE) DIAGONAL - @ 45° 2' C-C
- ⑬ PAVEMENT MARKING REMOVAL - WATER BLASTING

NOTES:

- 1. FINAL PAVEMENT MARKINGS ON HOT-MIX ASPHALT PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKINGS.
- 2. FINAL PAVEMENT MARKINGS ON VIRGINIA ROAD SHALL BE GROOVED IN ACCORDANCE WITH THE IDOT DISTRICT 1 DETAIL.



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:03:41 PM
 FILE NAME: I:\CADD\170562-RT 14 at Virginia\170562-Sht-Pmk1.dgn



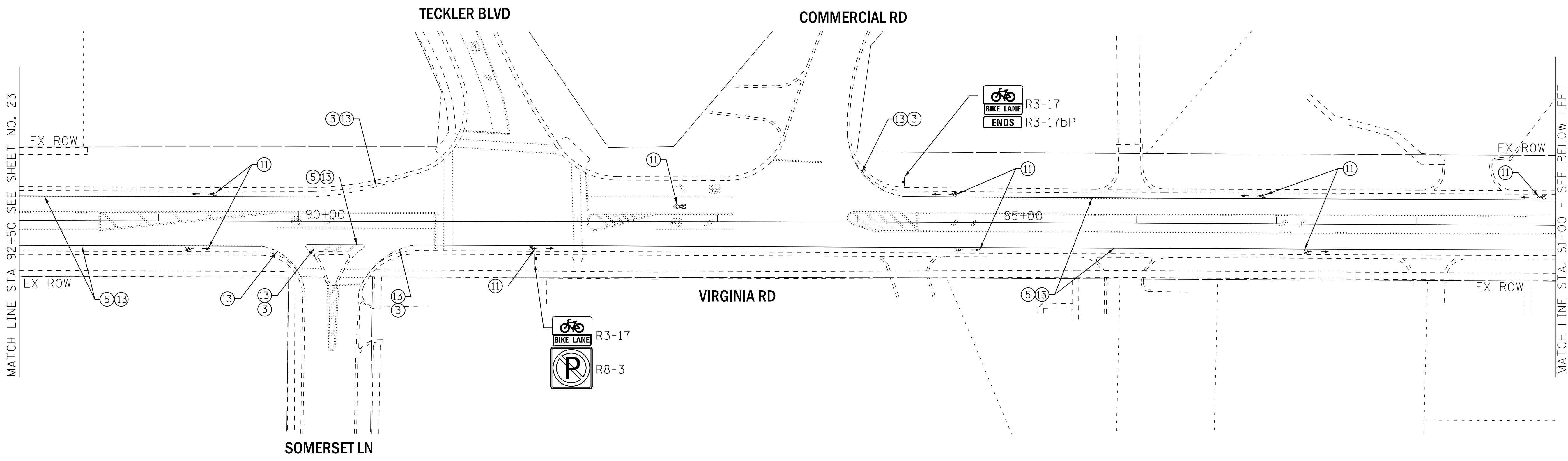
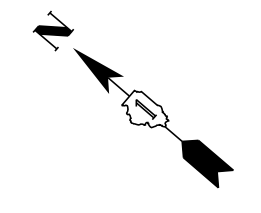
	USER NAME = 560KAR	DESIGNED - LJK	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - UKB	REVISED -
	PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
		DATE - 10-04-18	FILE - 170562-Sht-Pmk1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNAGE PLAN
US RTE 14 (VIRGINIA ST) & US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD

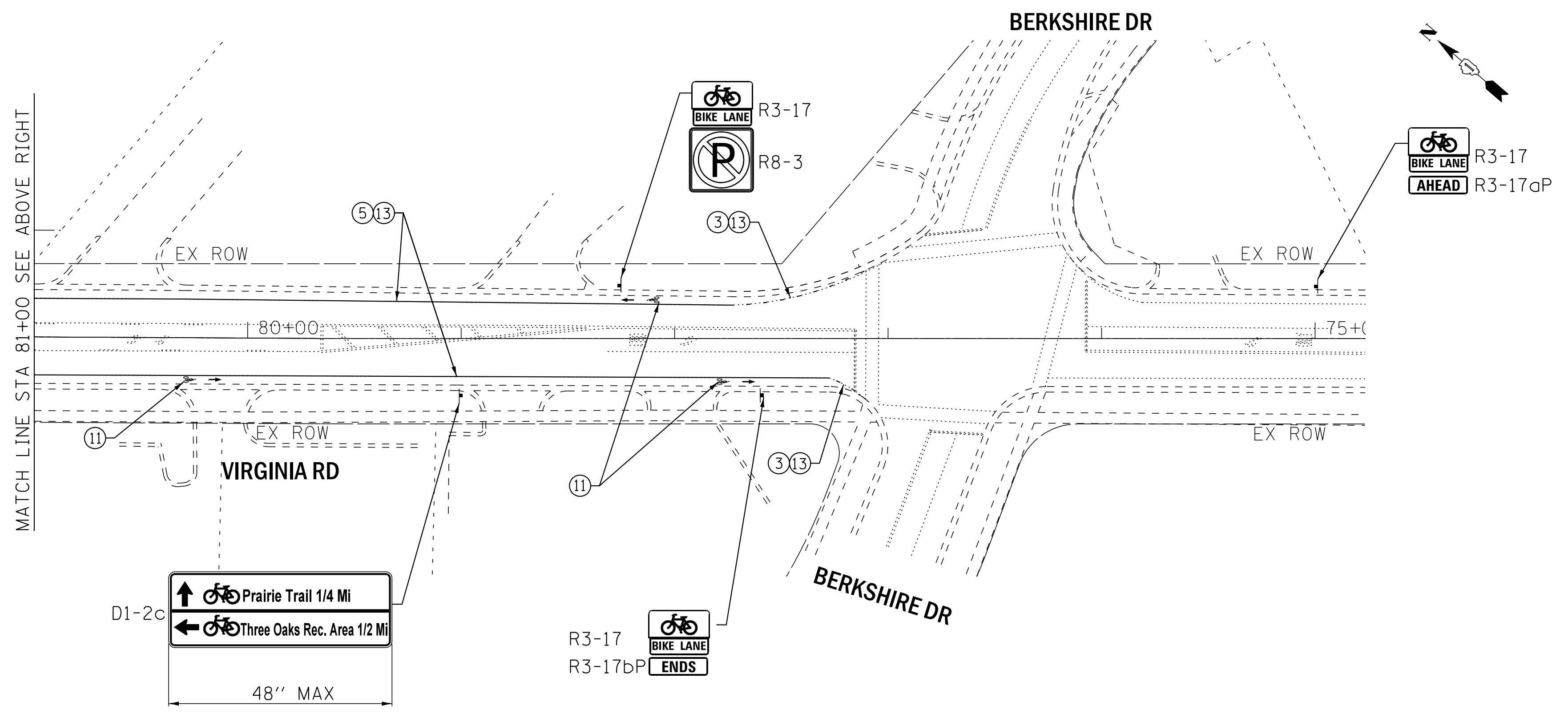
SCALE: 1"=40' SHEET OF SHEETS STA. TO STA.

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 23
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				



MATCH LINE STA. 92+50 SEE SHEET NO. 23

MATCH LINE STA. 81+00 - SEE BELOW LEFT

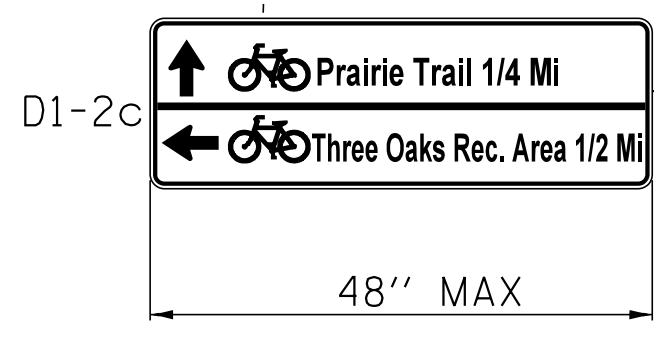


MATCH LINE STA. 81+00 SEE ABOVE RIGHT

- NOTES:
- FINAL PAVEMENT MARKINGS ON HOT-MIX ASPHALT PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKINGS.
 - FINAL PAVEMENT MARKINGS ON VIRGINIA ROAD SHALL BE GROOVED IN ACCORDANCE WITH THE IDOT DISTRICT 1 DETAIL.

PAVEMENT MARKING LEGEND

- ① LINE 4" (DOUBLE YELLOW - 11" C-C)
- ② LINE 4" (YELLOW)
- ③ LINE 6" (WHITE) - 2' DASH, 6' SKIP
- ④ LINE 4" (WHITE) SKIP DASH - 10' DASH, 30' SKIP
- ⑤ LINE 6" (WHITE)
- ⑥ LINE 8" (WHITE)
- ⑦ LINE 12" (WHITE)
- ⑧ LINE 12" (WHITE) DIAGONAL - @ 45° 10' C-C
- ⑨ LINE 12" (YELLOW) DIAGONAL - @ 45° 75' C-C OR A MINIMUM OF 5 EQUALLY SPACED
- ⑩ LINE 24" (WHITE) STOP BAR
- ⑪ LETTERS AND SYMBOLS
- ⑫ LINE 12" (WHITE) DIAGONAL - @ 45° 2' C-C
- ⑬ PAVEMENT MARKING REMOVAL - WATER BLASTING



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:03:43 PM
 FILE NAME: I:\CADD\170562-RT 14 of Virginia\CADD\170562-Sht-Pmk2.dgn



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-Pmk2.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNAGE PLAN
VIRGINIA ROAD**

SCALE: 1"=40' SHEET OF SHEETS STA. TO STA.

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 24
ILLINOIS FED. AID PROJECT QIK31554			CONTRACT NO. 61F23	

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								

*F.A.P./F.A.U.

COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560 KAR 11/28/2018 12:03:44 PM
 FILE NAME: I:\Users\lakes\CR\170562-RT 14 at Virginia\CADD\170562-Sht-D1-TS05-Detail.dgn
 FILE NAME: I:\Users\lakes\CR\170562-RT 14 at Virginia\CADD\170562-Sht-D1-TS05-Detail.dgn

FILE NAME = ts05.dgn	USER NAME = luyaa	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
		CHECKED - LP	REVISED -
		DATE - 9/29/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

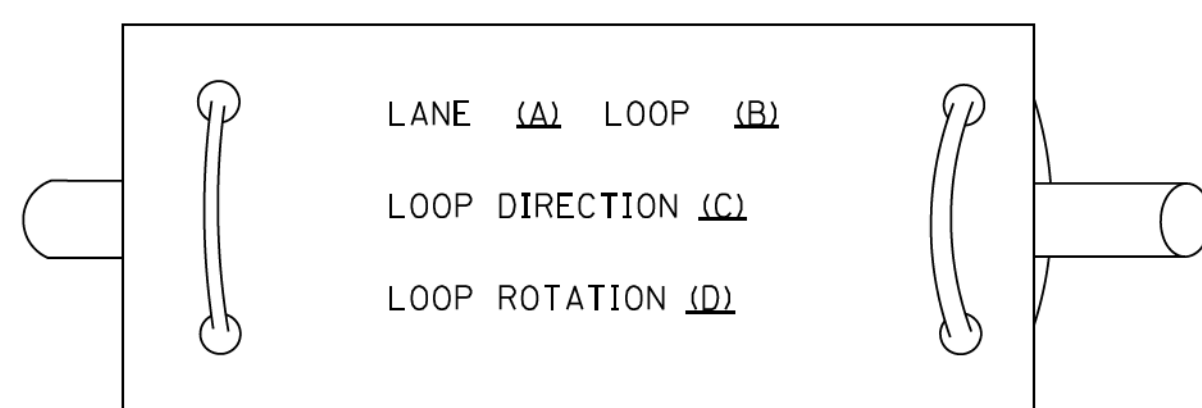
SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

F.A. RTE. 305/0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 25
TS-05		CONTRACT NO. 61F23		
ILLINOIS FED. AID PROJECT QIK31554				

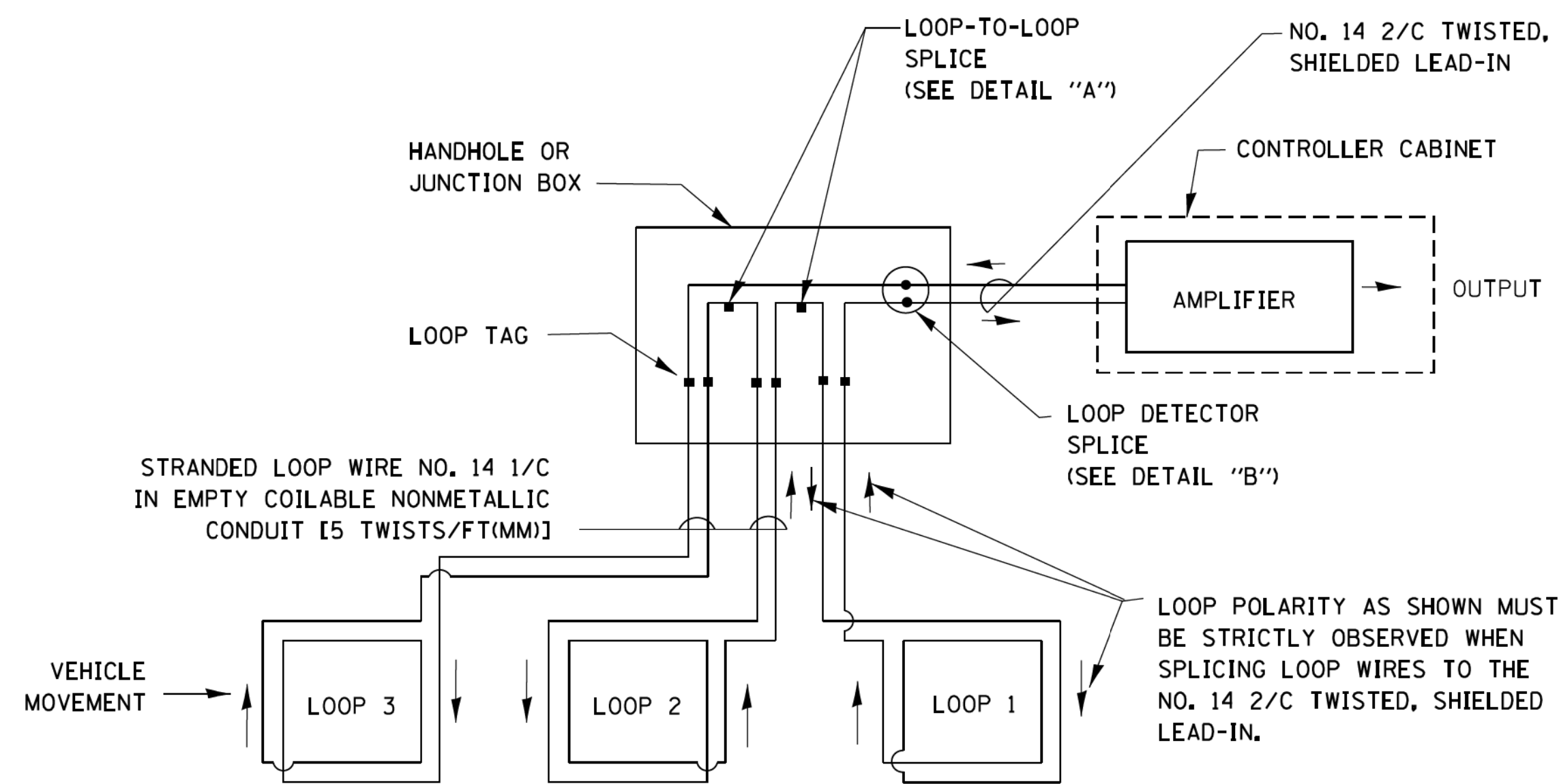
LOOP DETECTOR NOTES

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

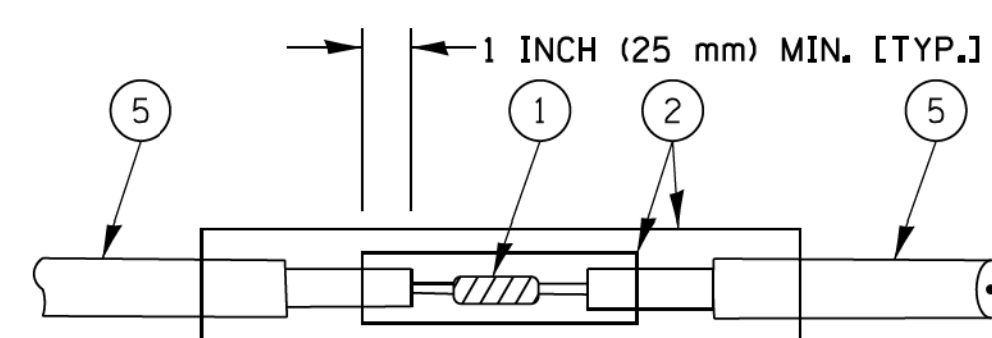


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

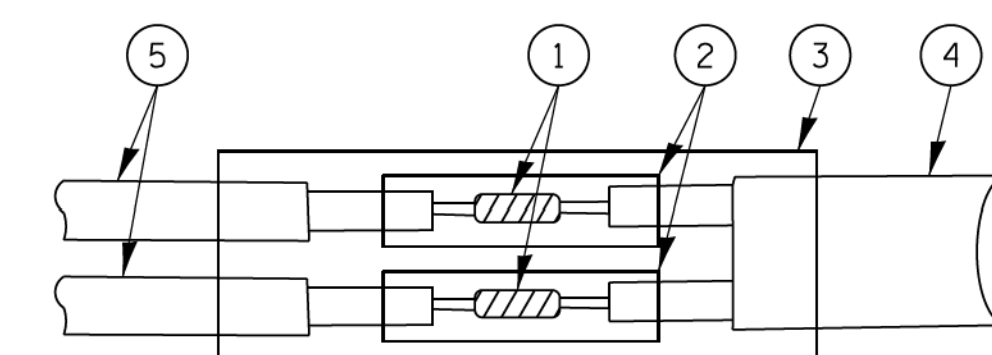


DETECTOR LOOP WIRING SCHEMATIC

- 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.

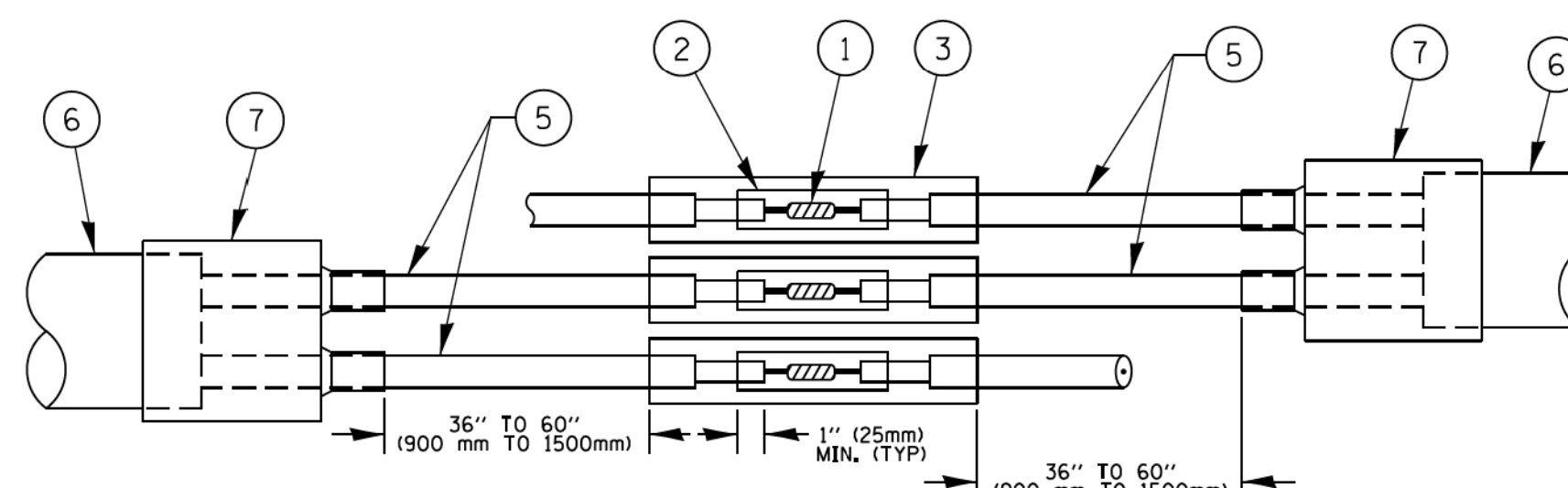


DETAIL "A"
LOOP-TO-LOOP SPLICE

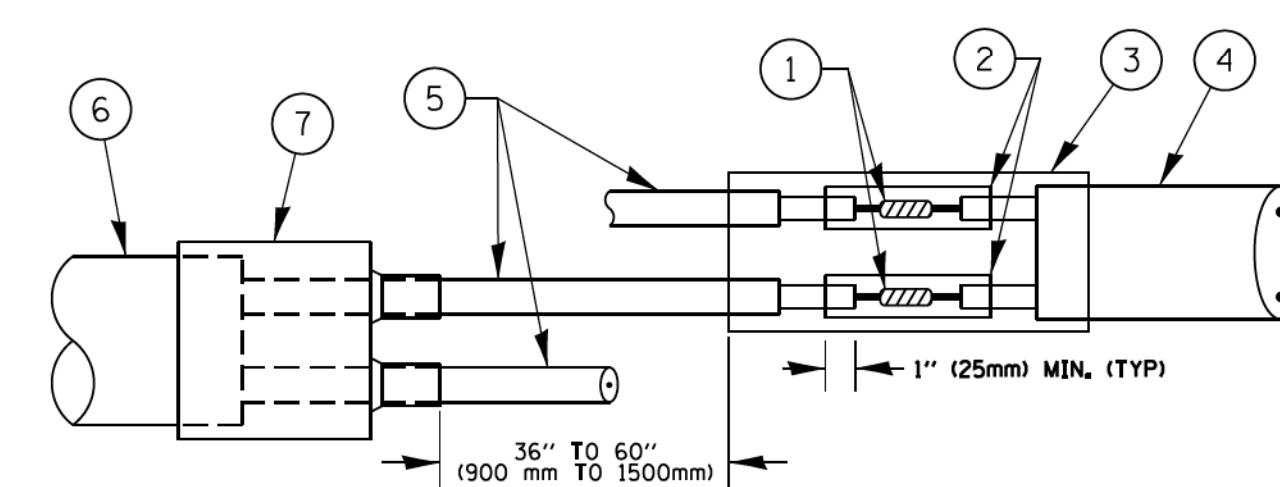


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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

COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. = 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:03:56 PM
 FILE NAME: I:\C:\p\stl Lake\CRYLIC\170562-Rt 14 at Virginia\CADD\170562-Sht-D1-TS05-Details.dgn
 FILE MODIFIED: I:\C:\p\stl Lake\CRYLIC\170562-Rt 14 at Virginia\CADD\170562-Sht-D1-TS05-Details.dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca\p\work\p\dot\footemj\d0188315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 // in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

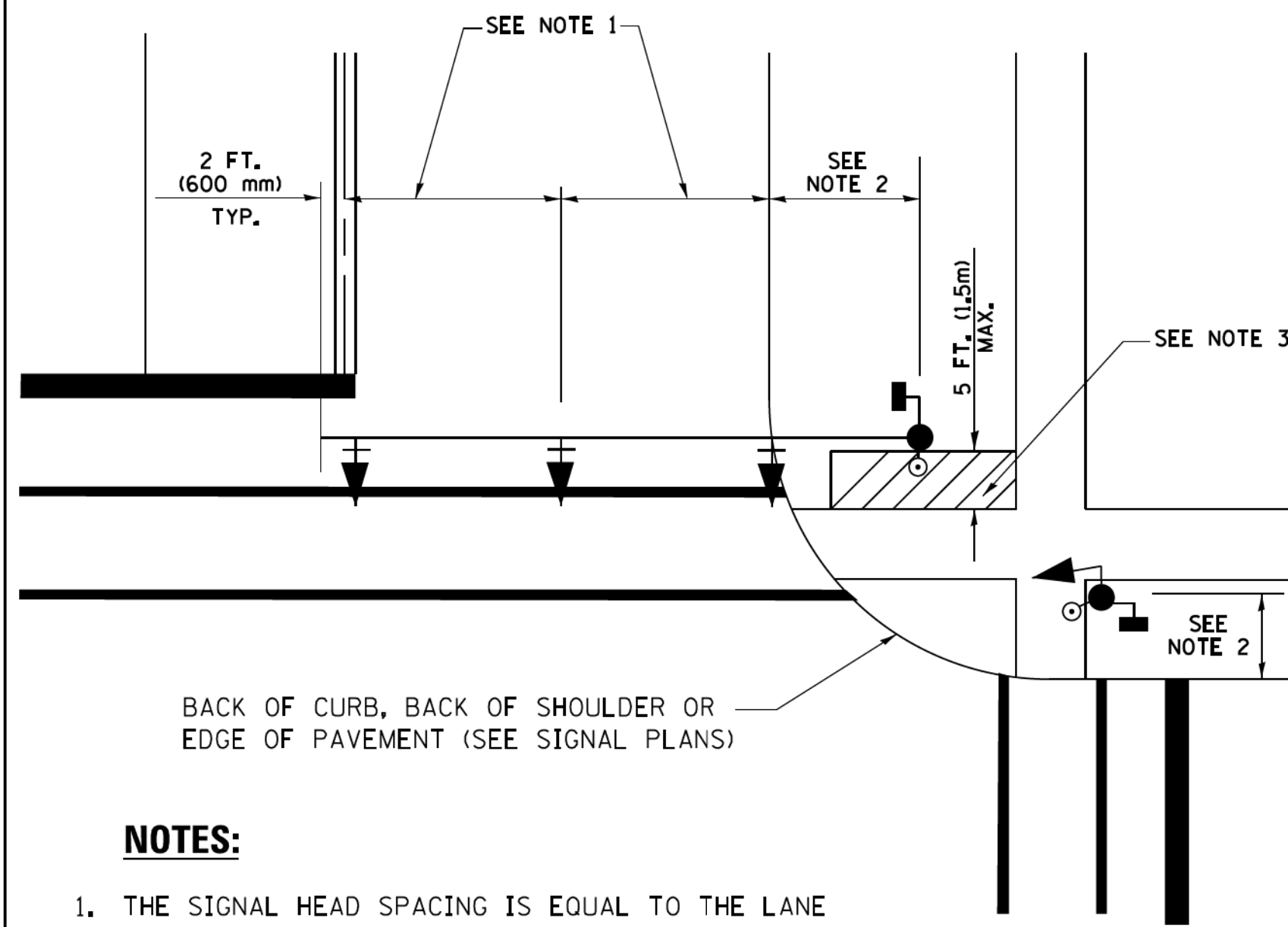
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

*F.A.P./F.A.U.

F.A. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 26
TS-05		CONTRACT NO. 61F23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554				

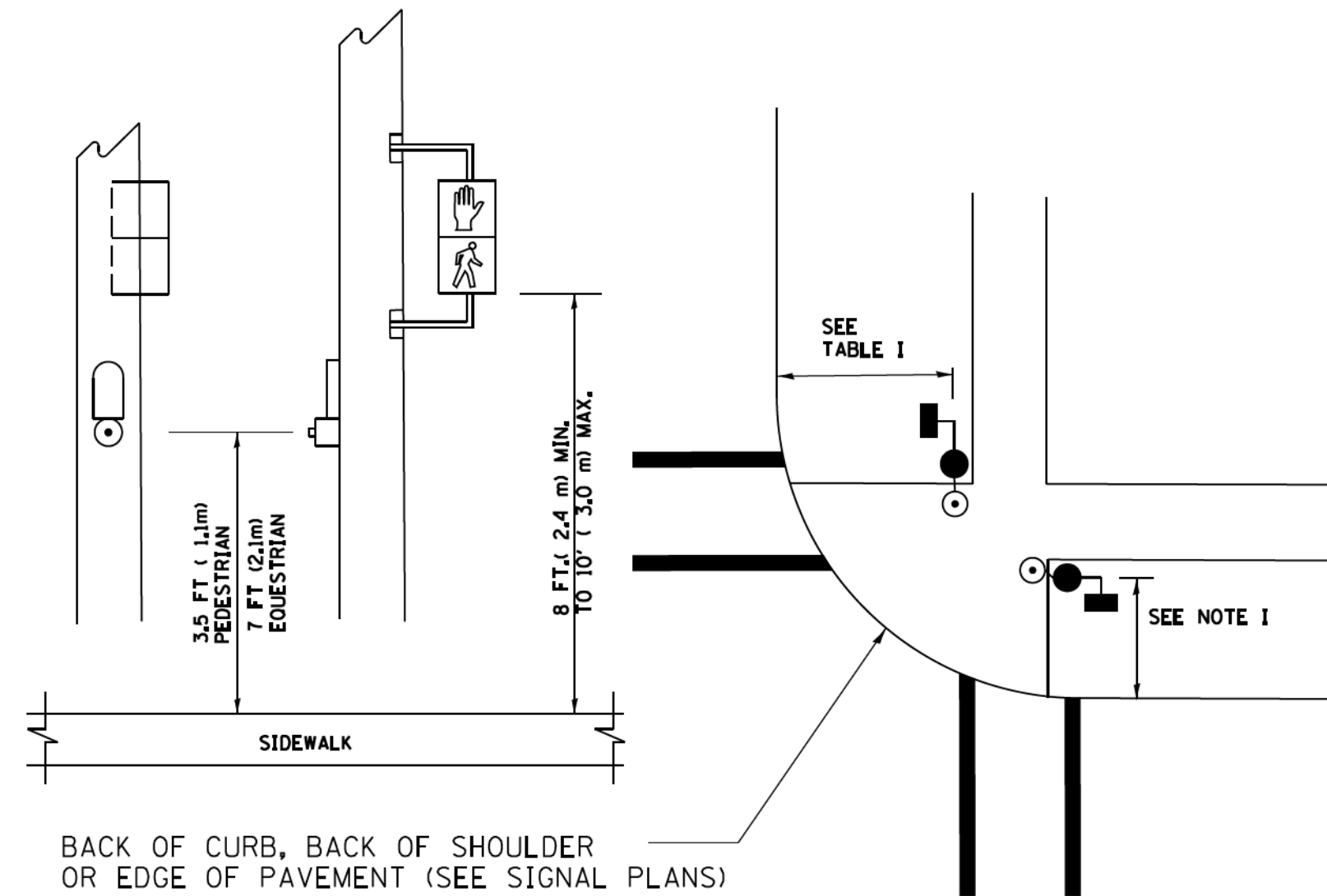
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

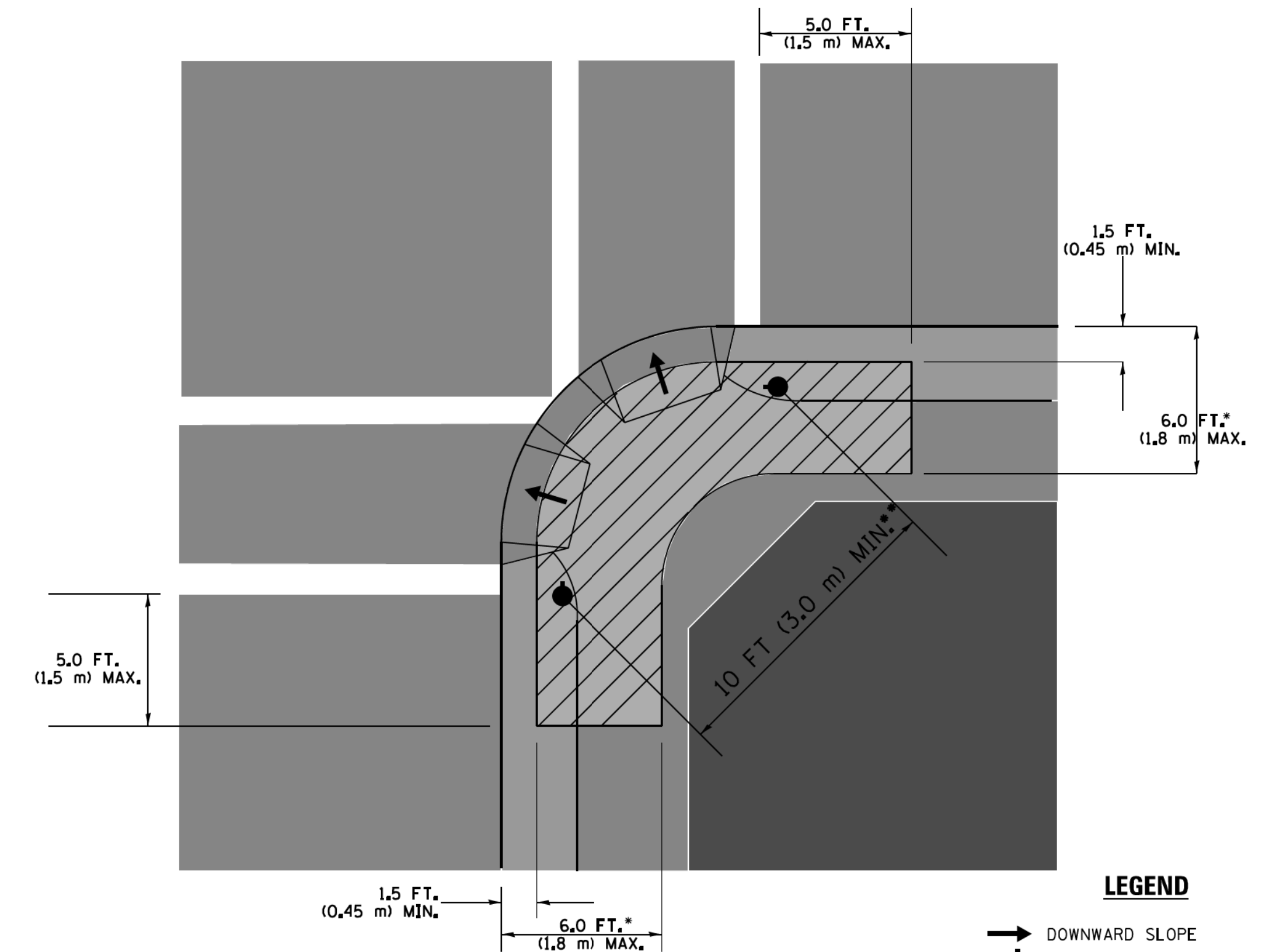
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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.

COPYRIGHT © 2018, BY BAXTER & WOODMAN, INC., STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-00121 - EXPIRES 4/30/2019 560KAR 11/28/2018 12:04:41 PM FILE: \\c:\p\work\psdot\footemj\d0108315\ts05.dgn FILE: \\c:\p\work\psdot\footemj\d0108315\ts05.dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca\p\work\psdot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 // 1x.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

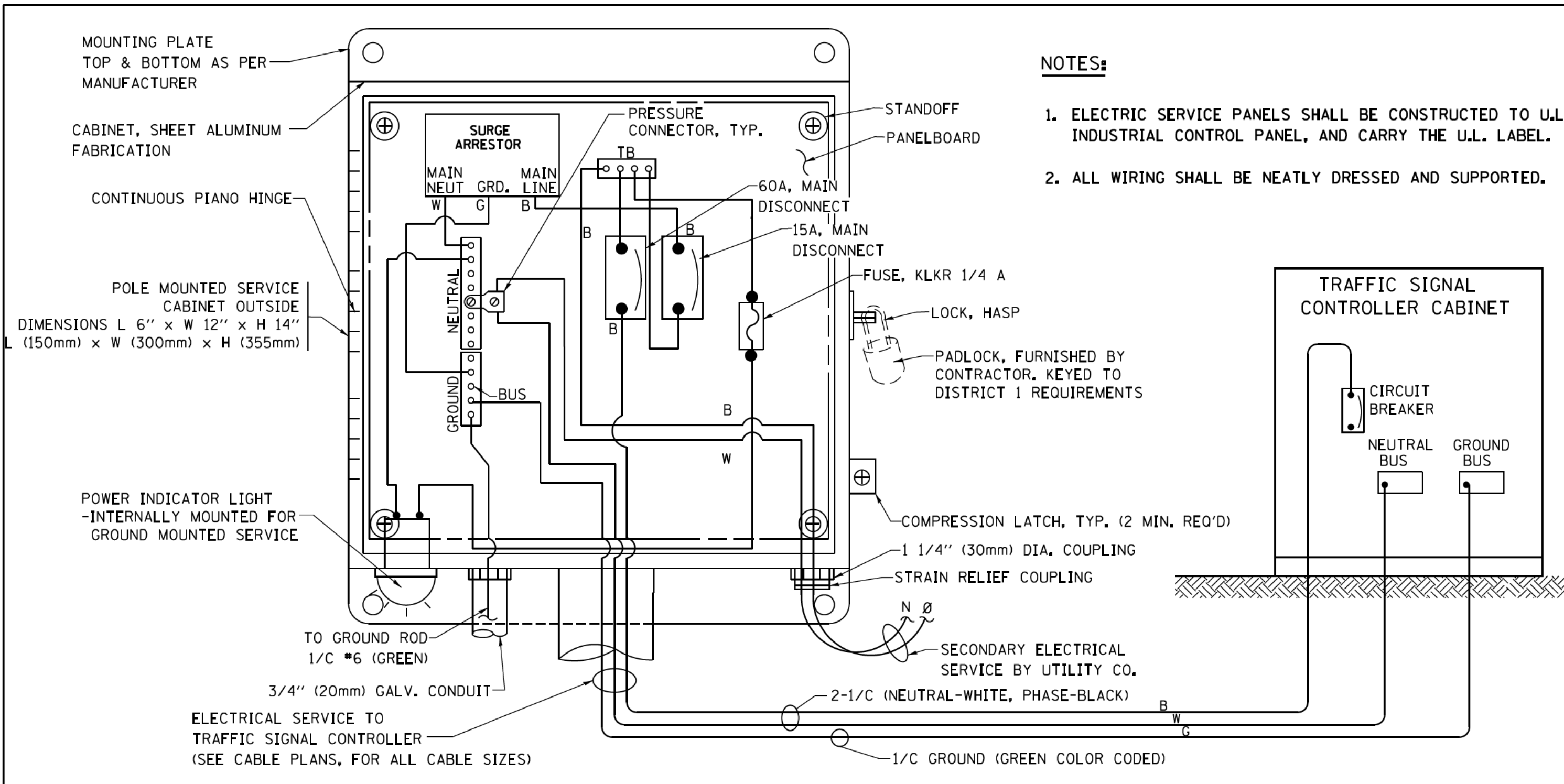
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

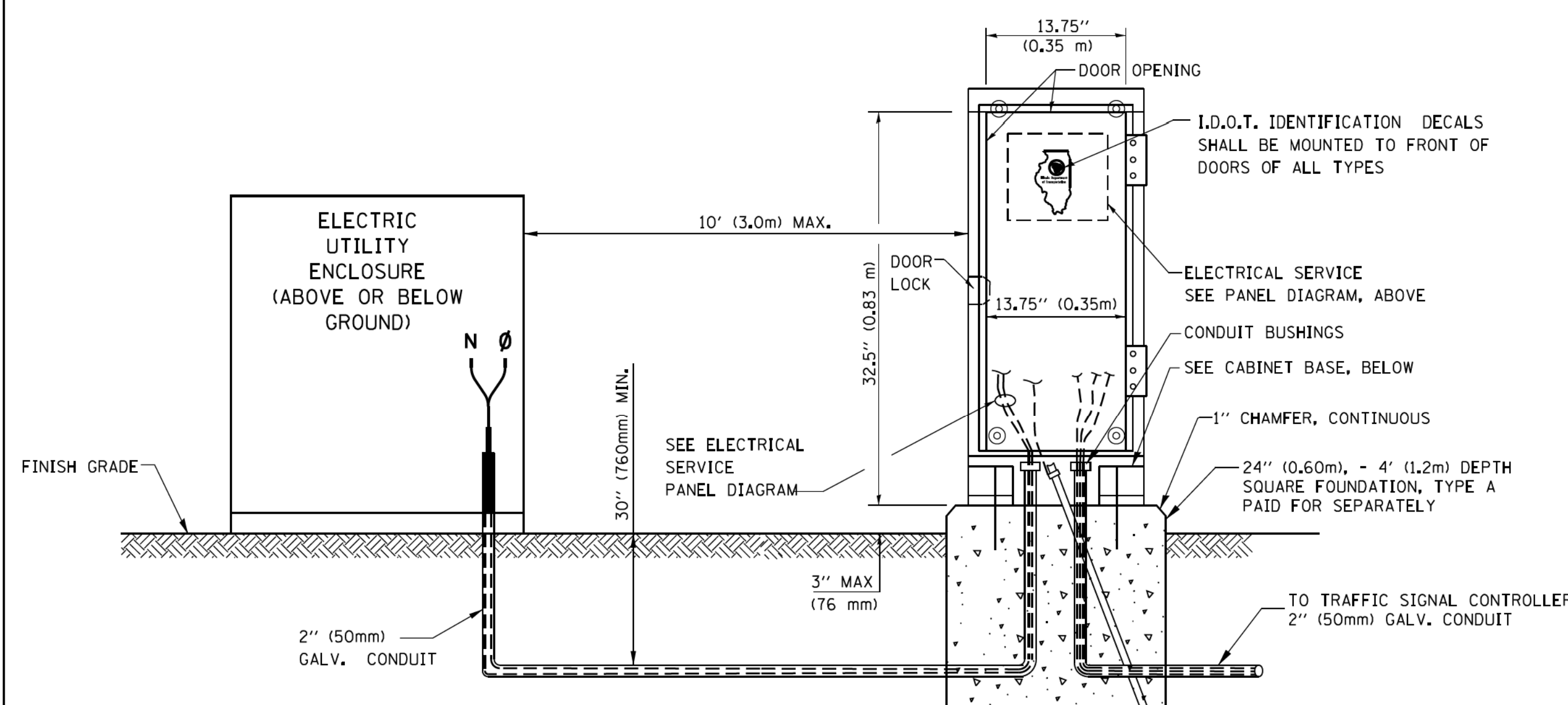
SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.

*F.A.P./F.A.U.

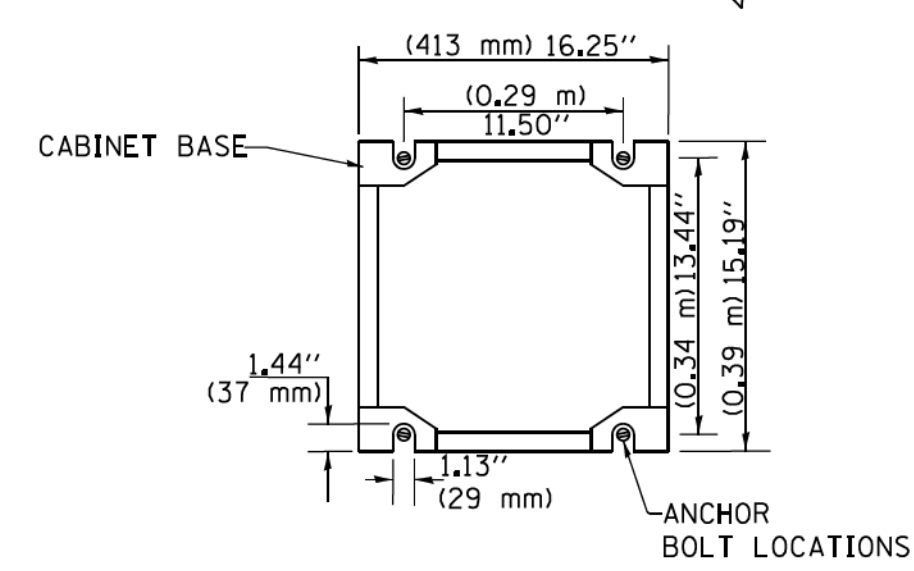
F.A. RTE. 305-0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 27
TS-05		CONTRACT NO. 61F23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554				



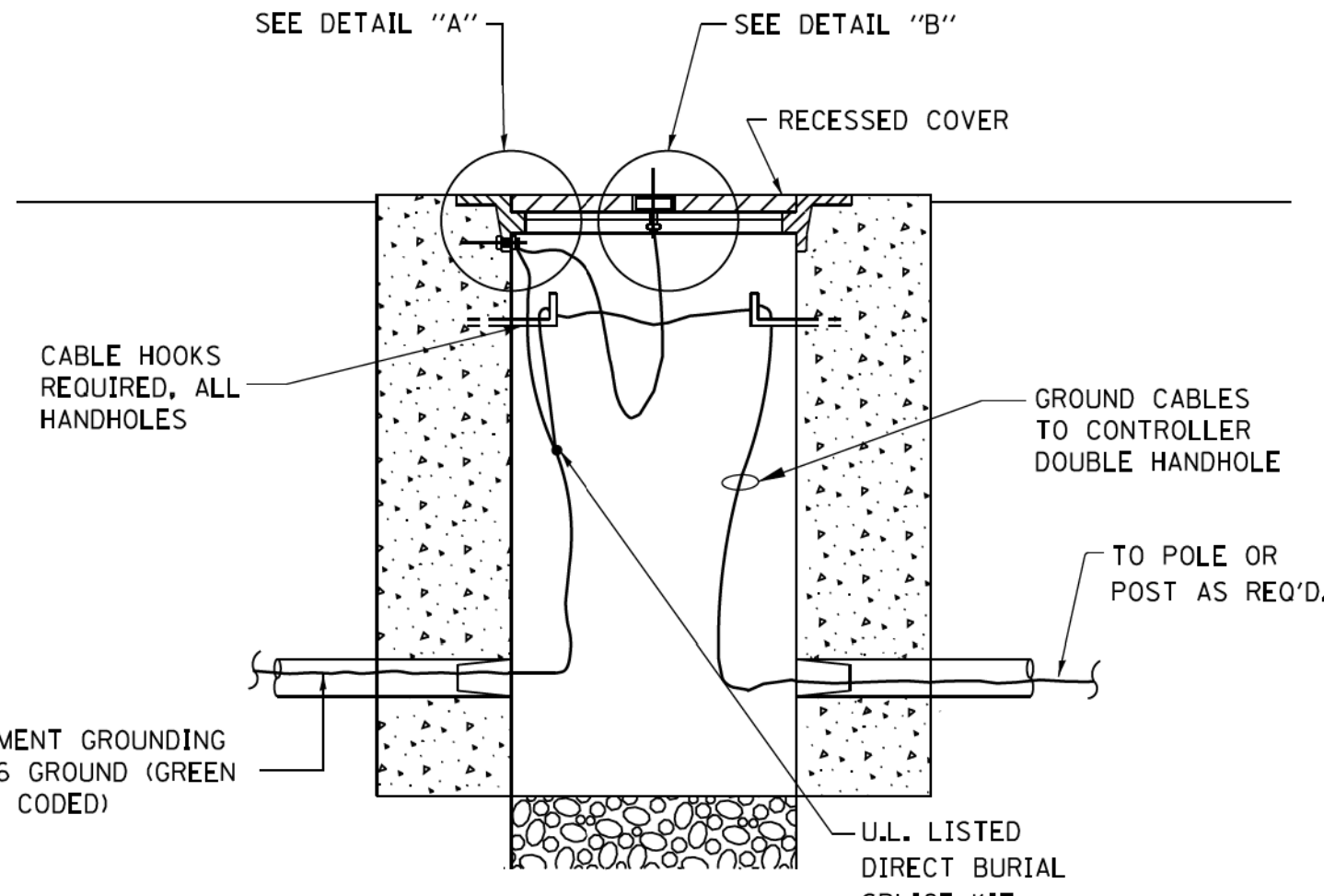
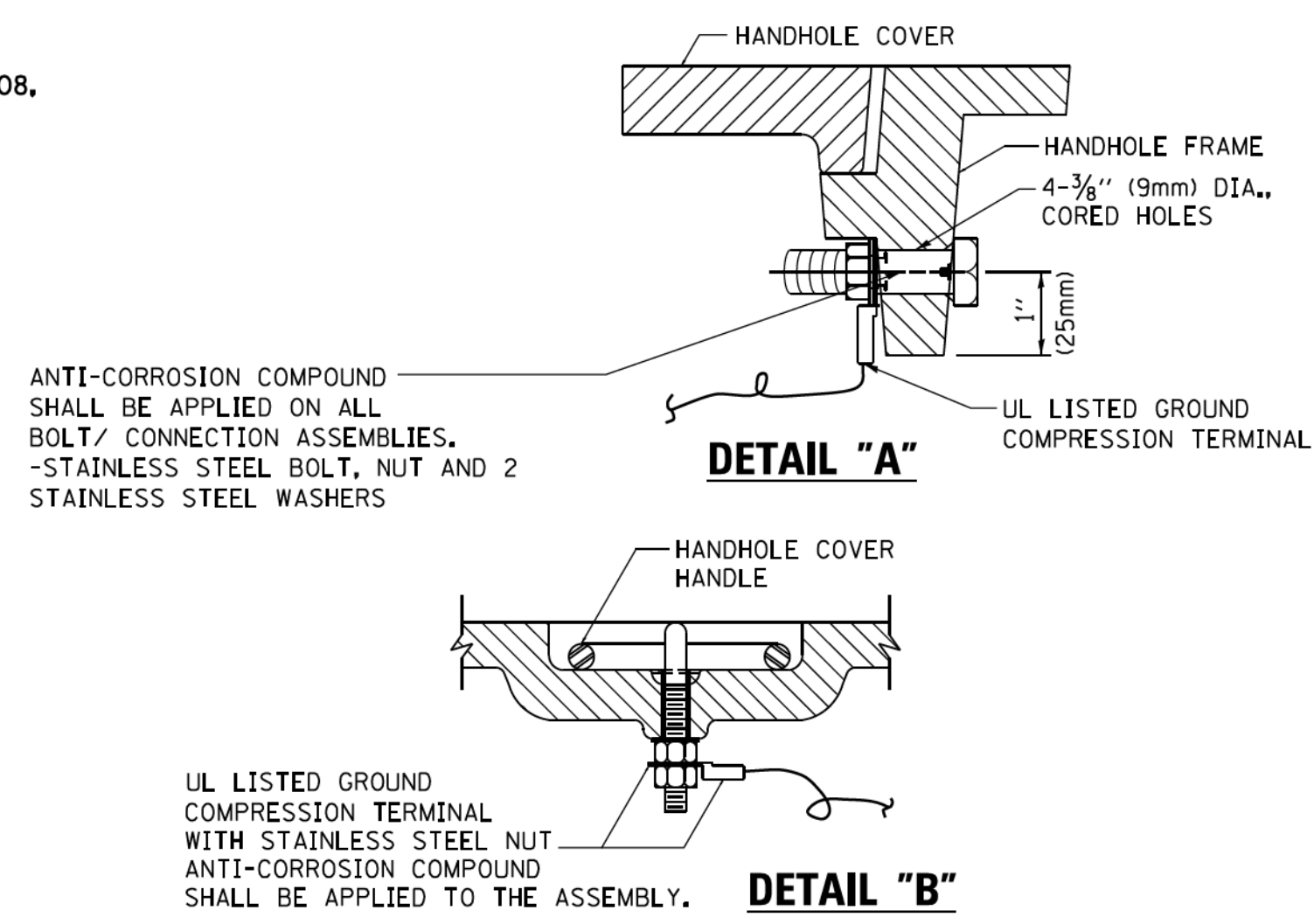
**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**



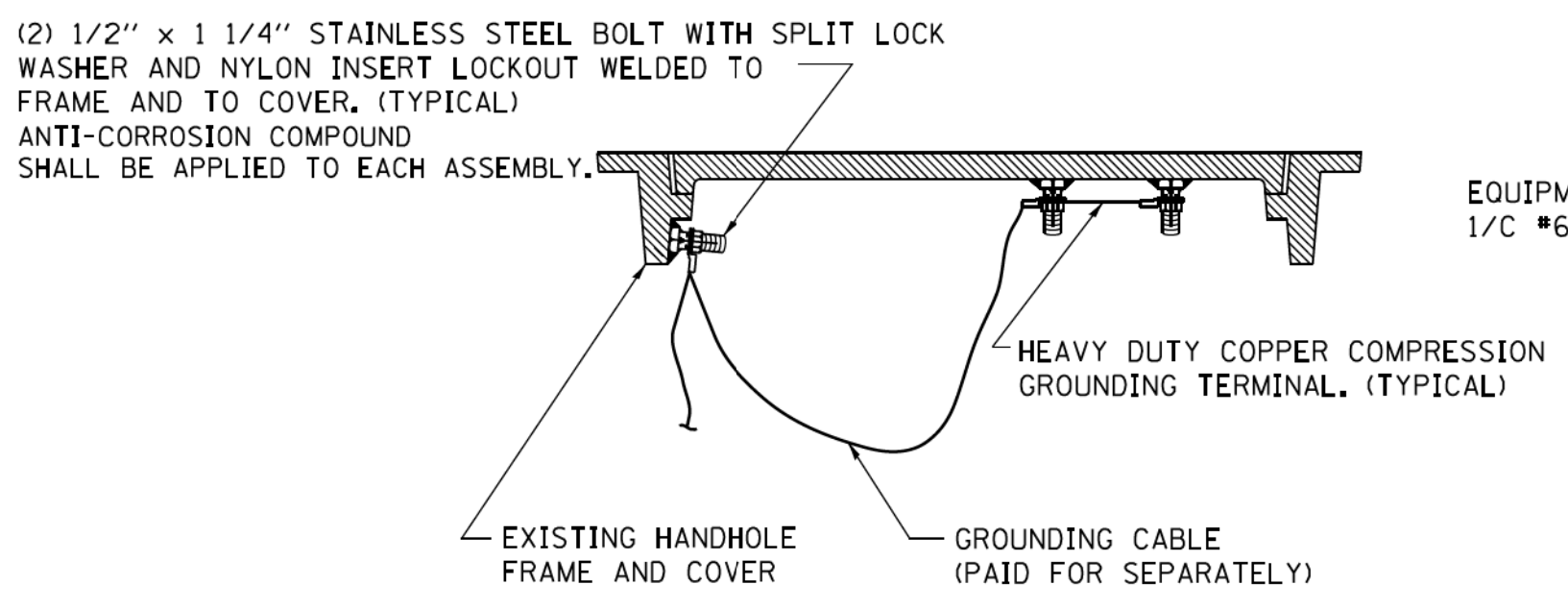
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)



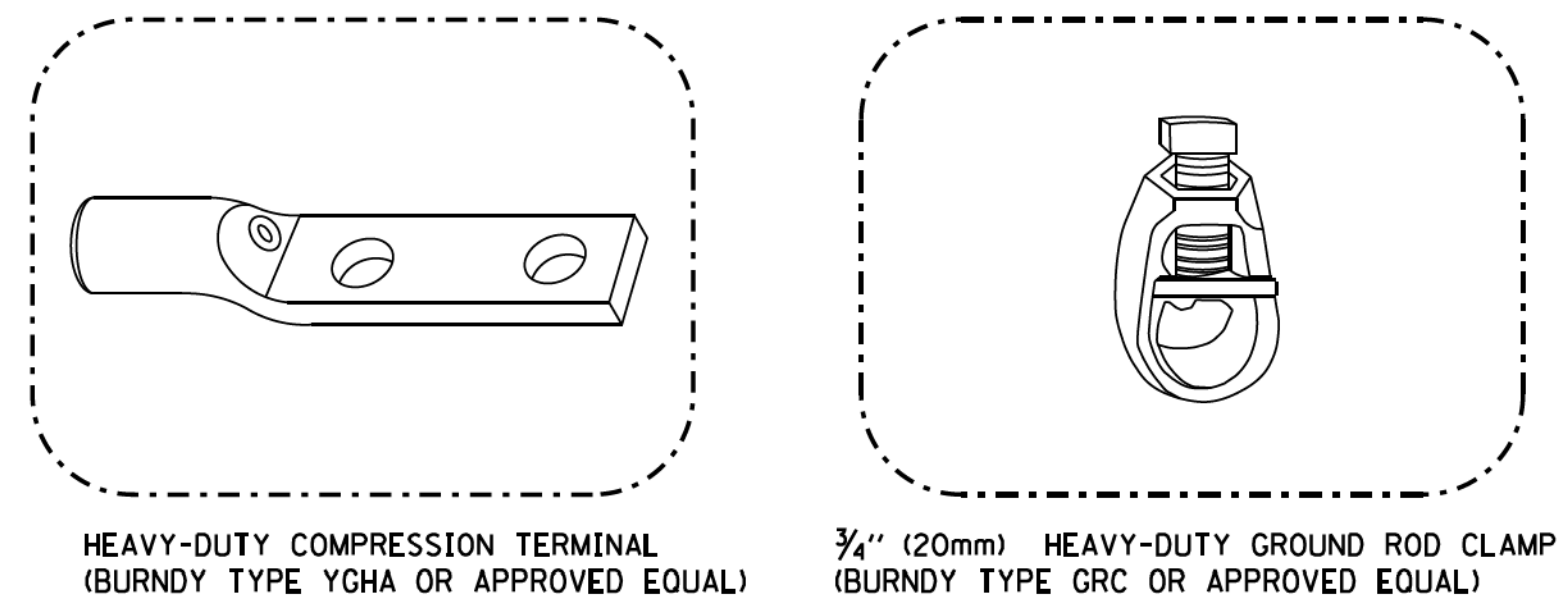
CABINET – BASE BOLT PATTERN (NOT TO SCALE)



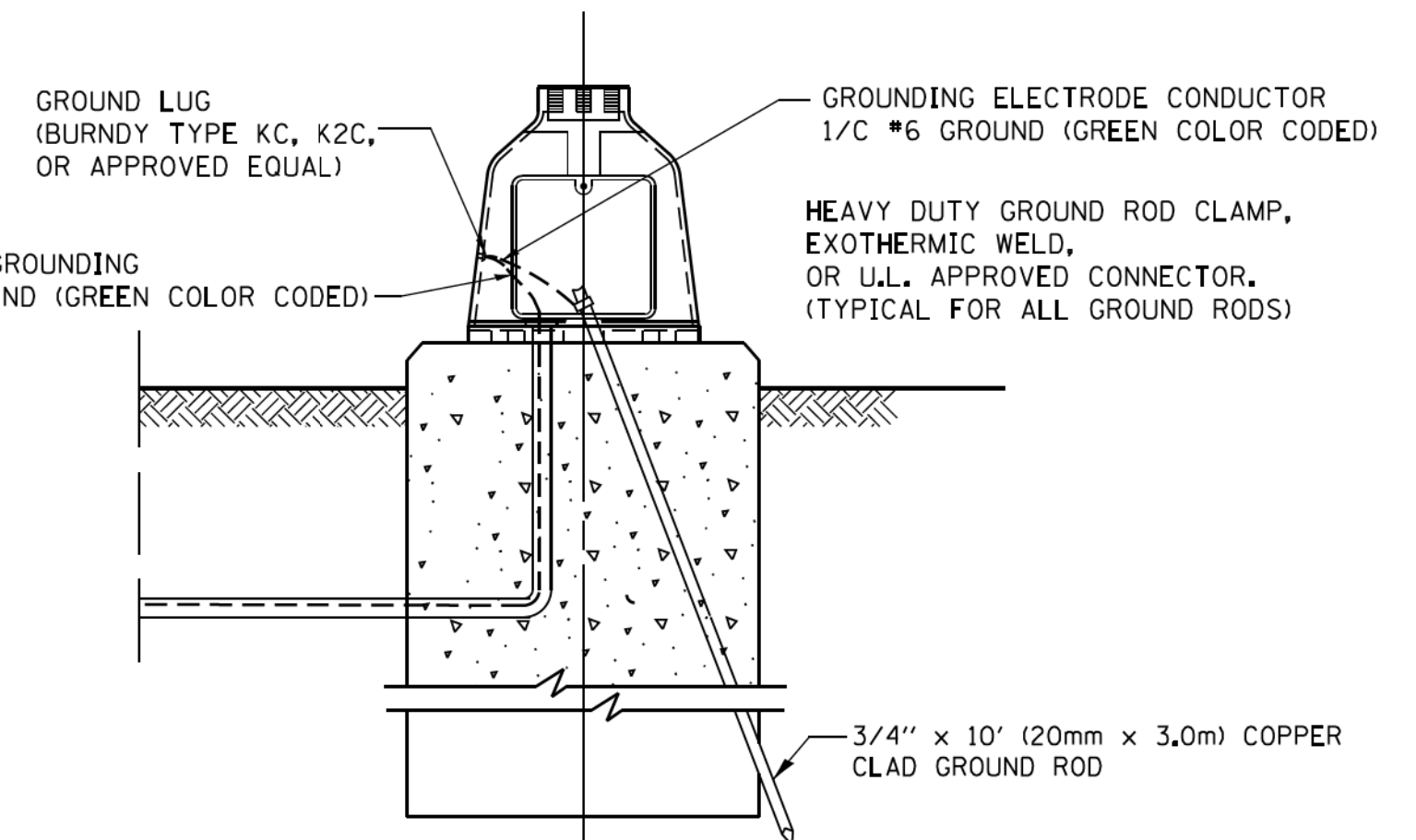
HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)



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



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



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

**NOTES:
GROUNDING SYSTEM**

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

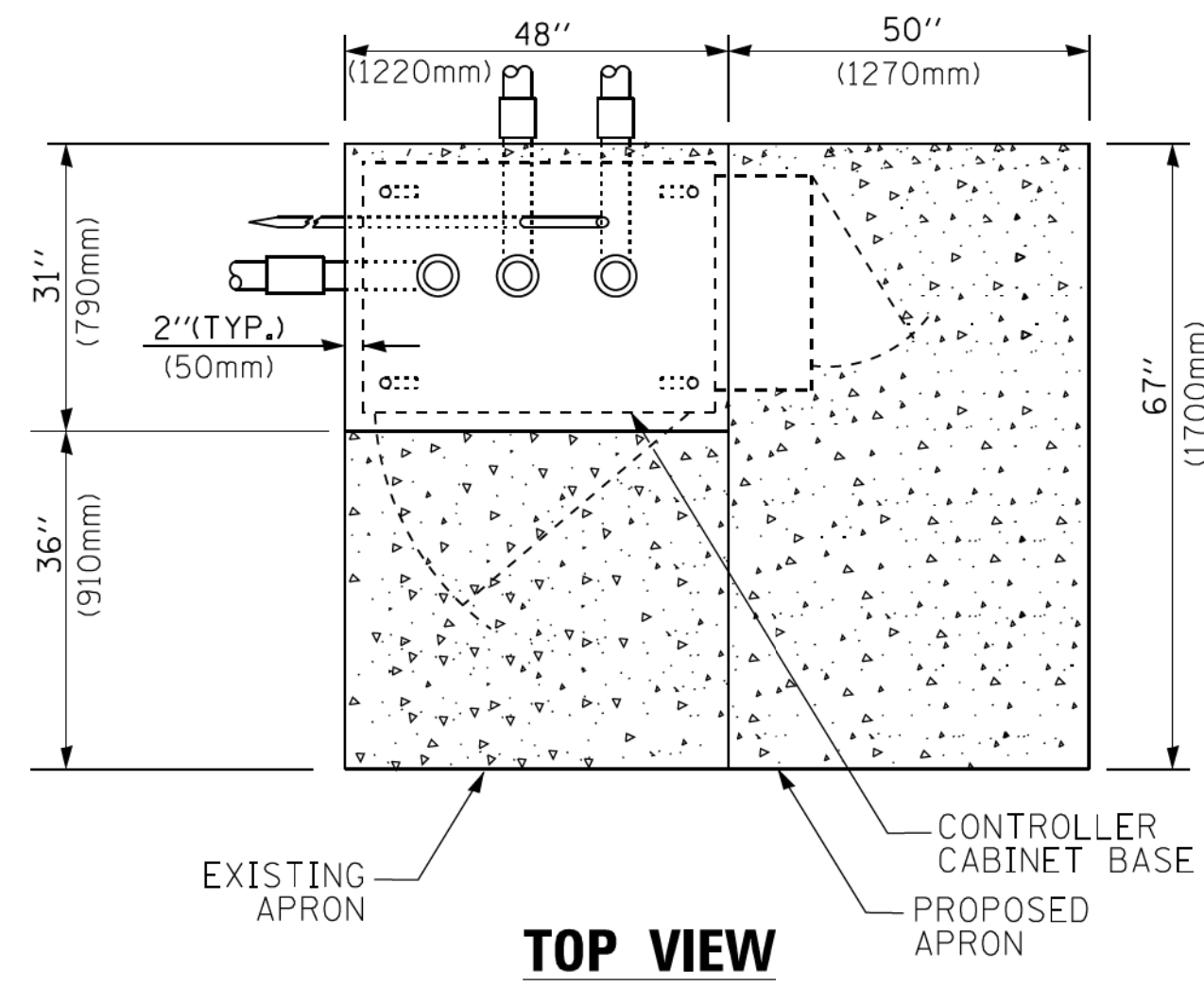
COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:04:26 PM
 MODEL: Default
 FILE NAME: R:\Crystal Lake\CRYL170562-Rt 14 at Virginia\CADD\170562-Rt 14 at Virginia\CADD\170562-Rt 14 at Virginia\TS05-Details.dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\pwwork\pwwork\footemj\d0180315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

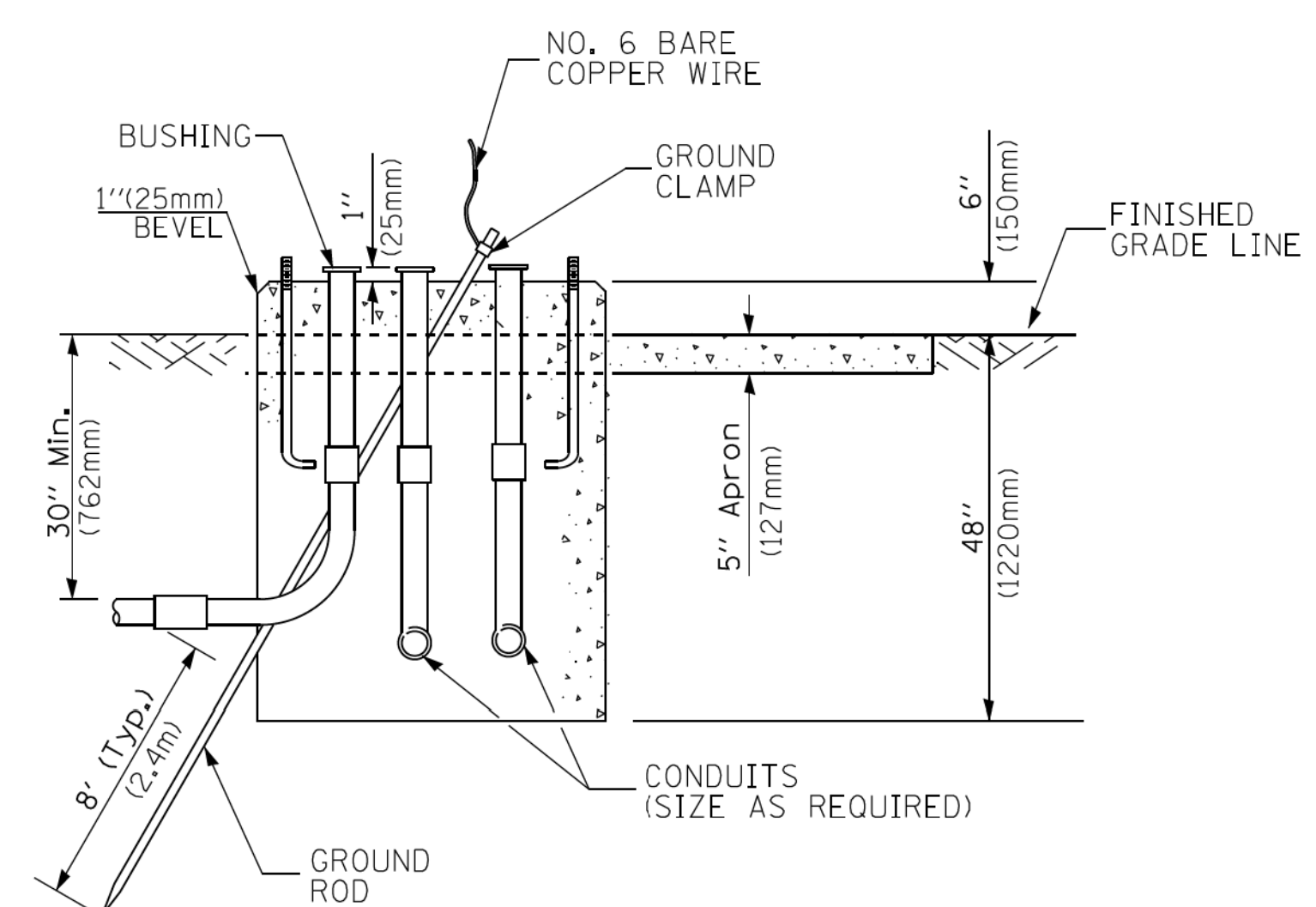
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS

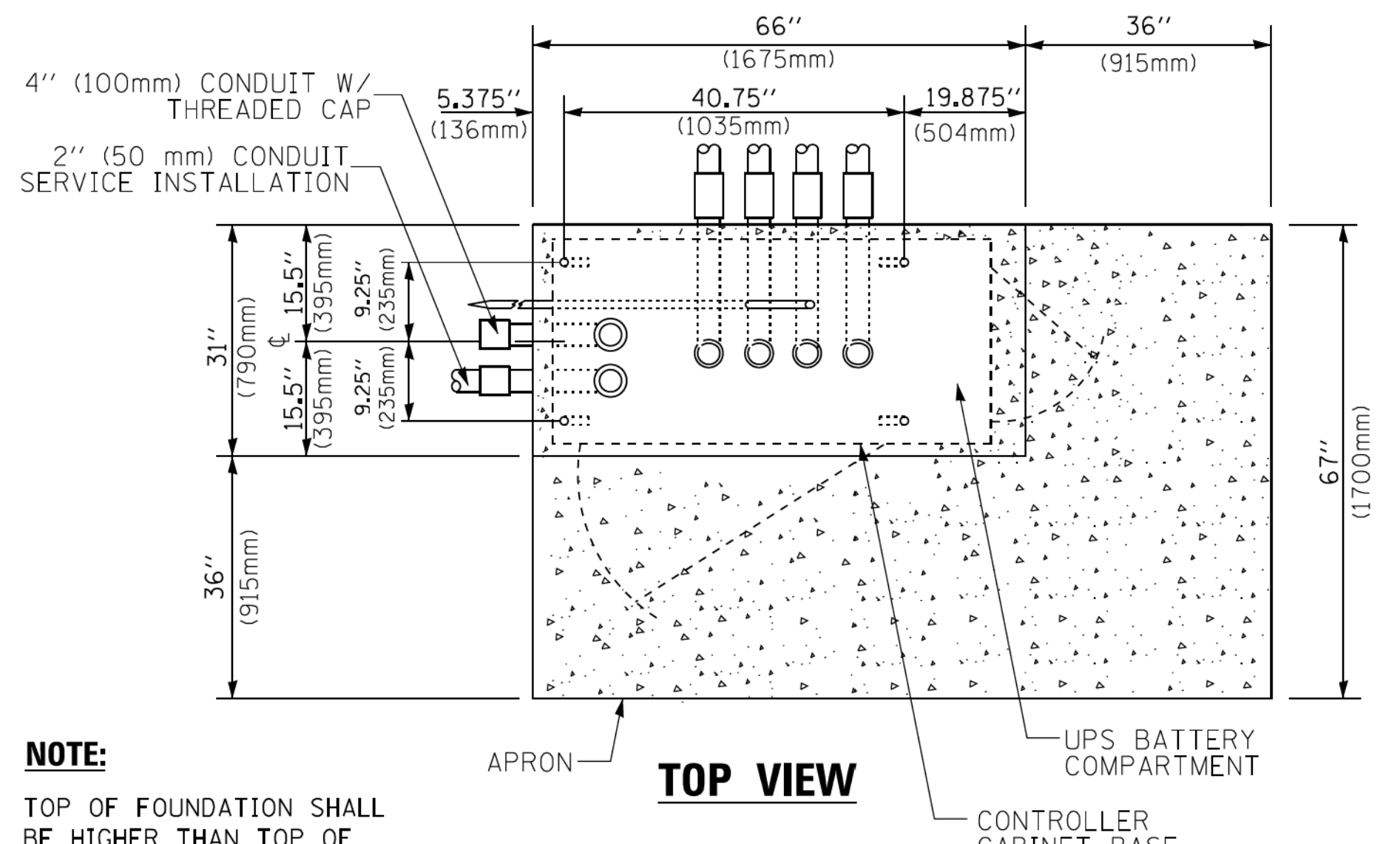
*F.A.P./F.A.U.	
F.A. RTE. 305 0121	SECTION 17-00125-00-CH
TS-05	
COUNTY MCHENRY	TOTAL SHEETS 70
CONTRACT NO. 61F23	SHEET NO. 28
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK3(554)	



TOP VIEW

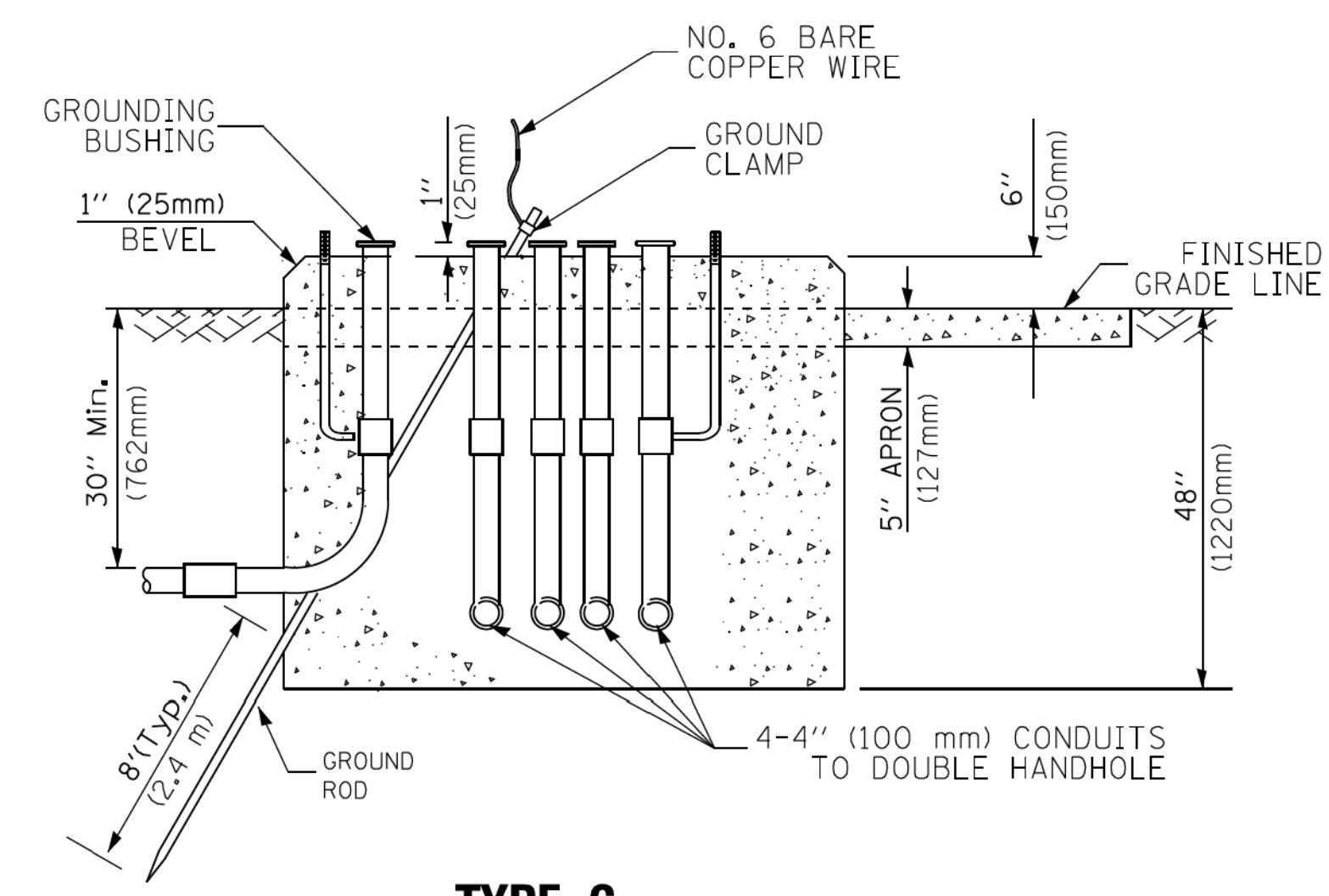


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

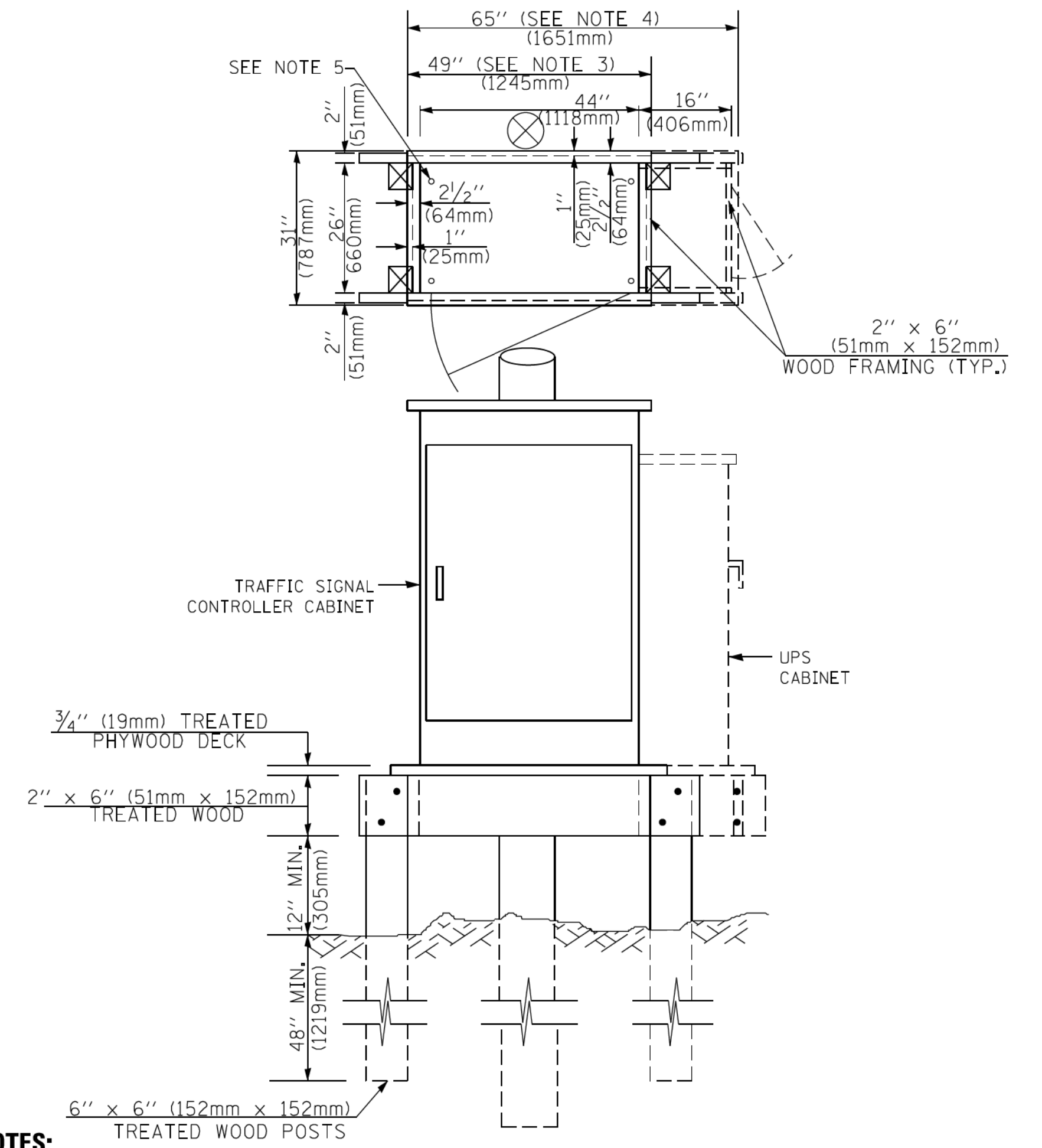


TOP VIEW

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 less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

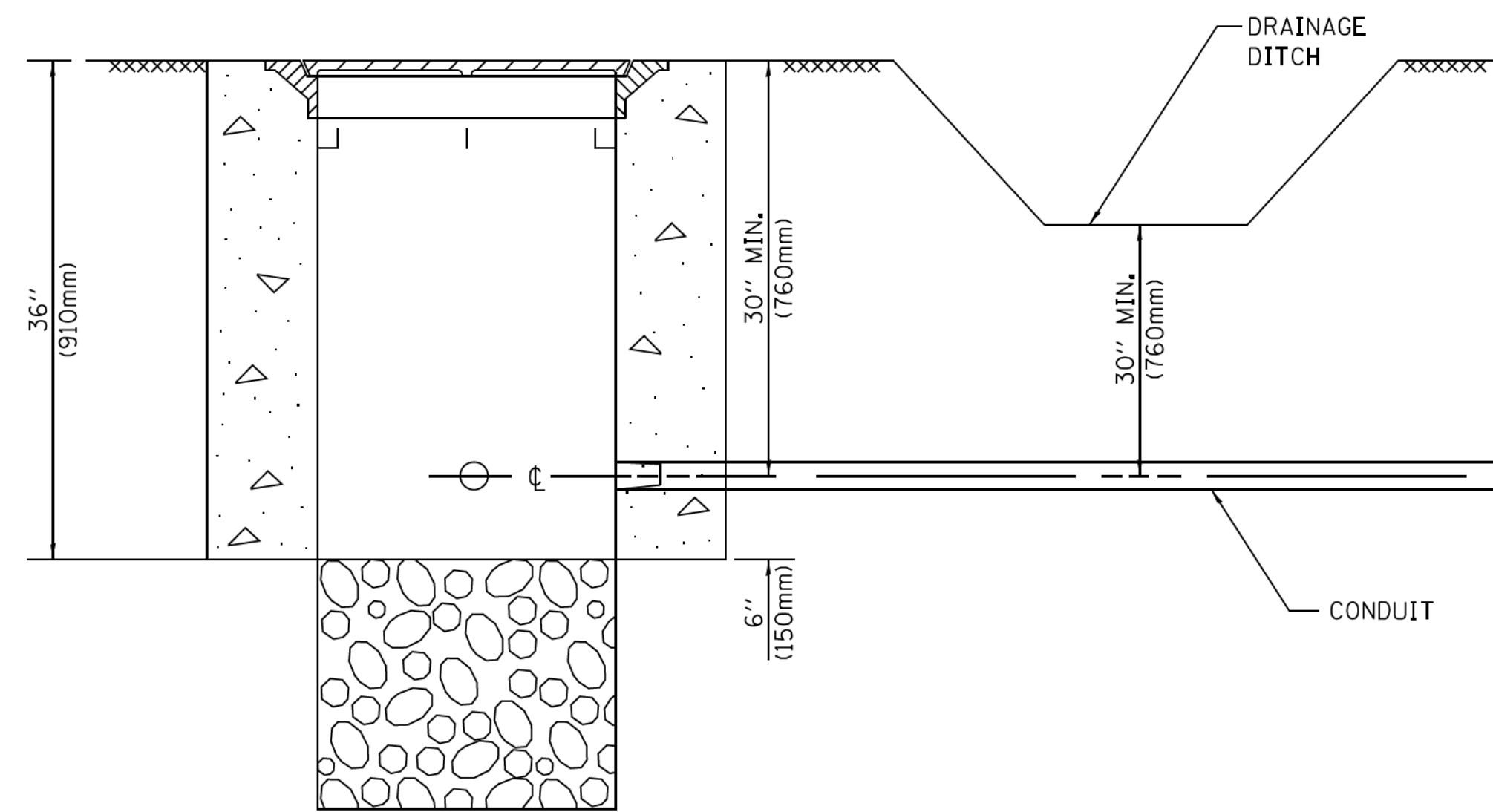
NOTES:

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

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwwork\psdot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -			305	17-00125-00-CH	MCHENRY	70	29	
PLOT SCALE = 50.0000' / 1"		CHECKED - DAD	REVISED -			TS-05 CONTRACT NO. 61F23					
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554					

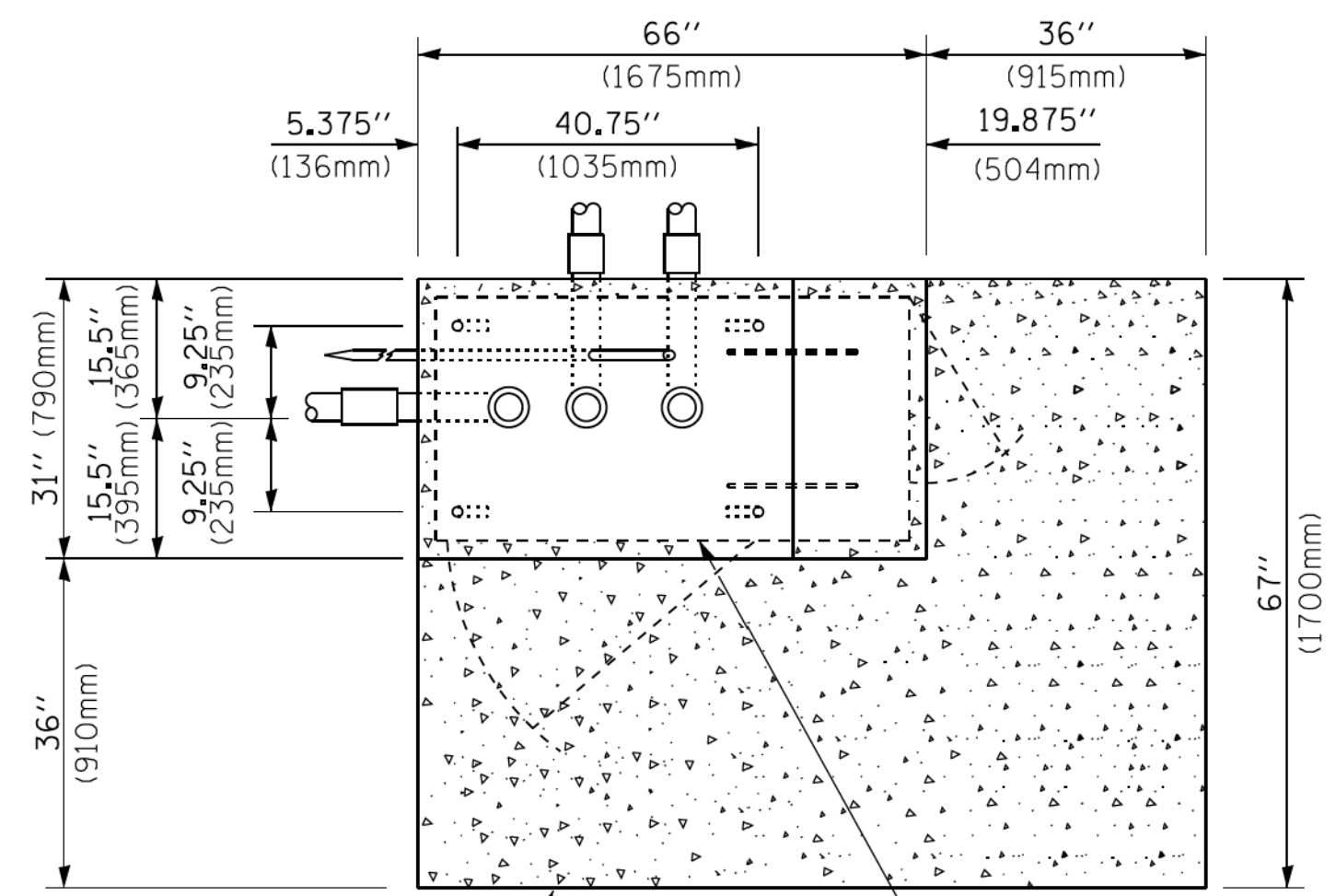
COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:04:43 PM
 FILE NAME: C:\pwwork\psdot\footemj\d0108315\ts05.dgn
 FILE PATH: C:\pwwork\psdot\footemj\d0108315\ts05.dgn



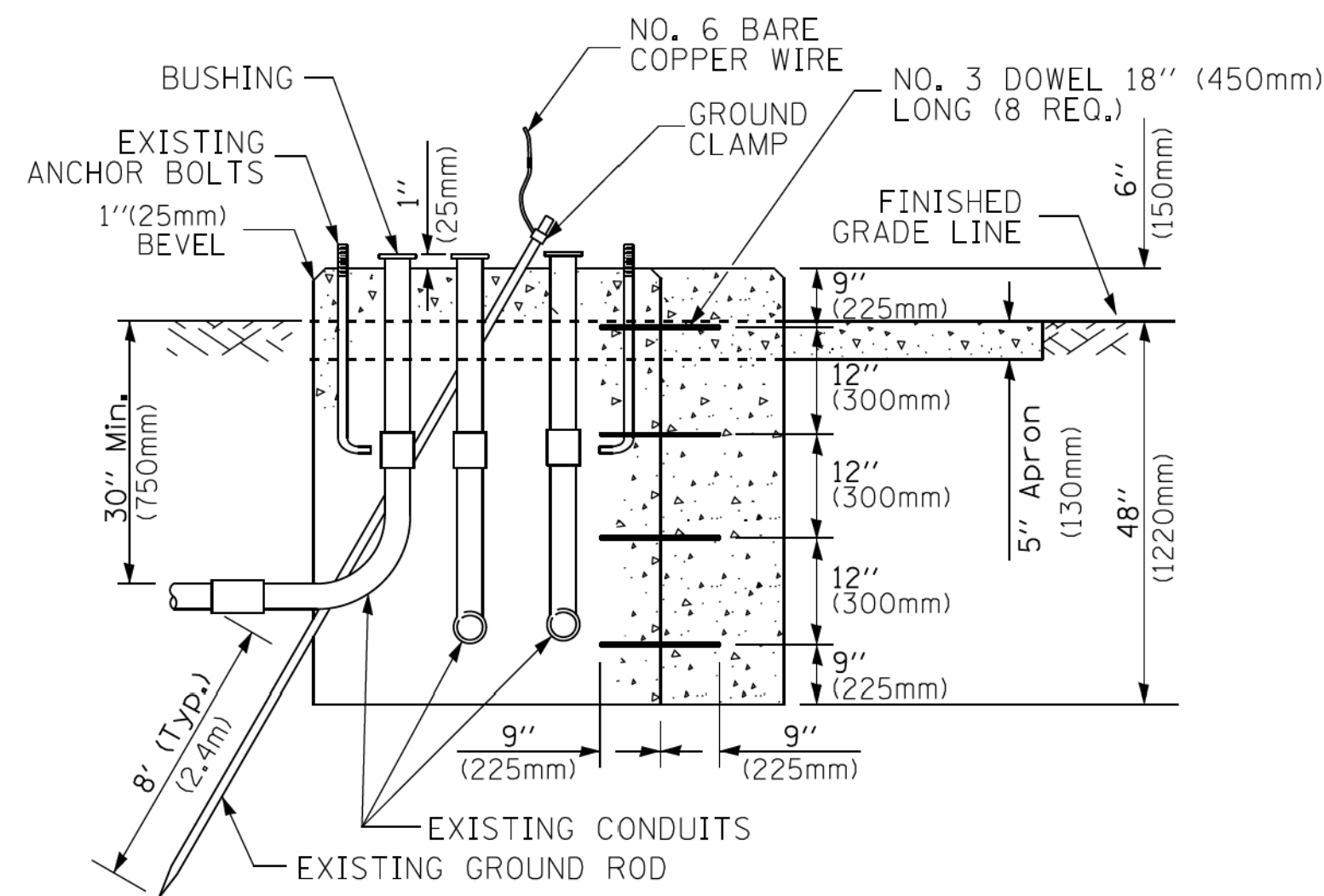
NOTES:

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.

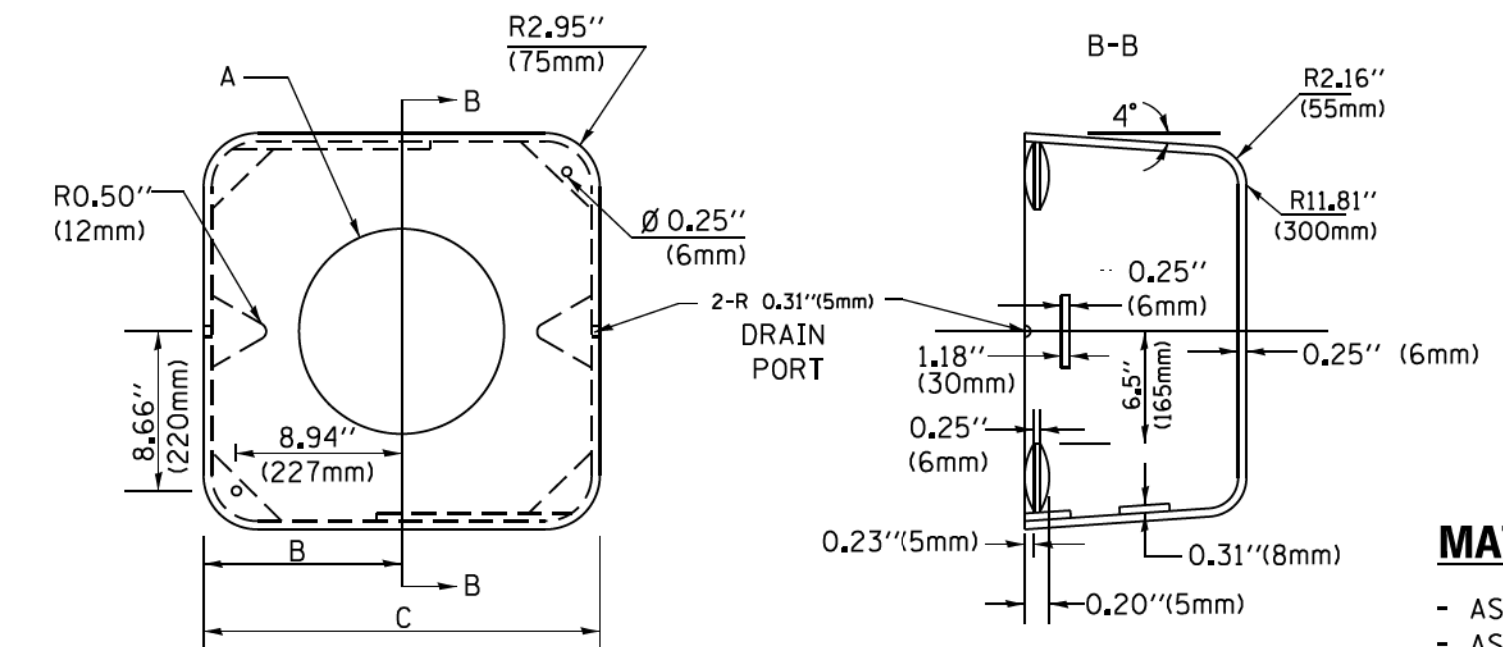
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)



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



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

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

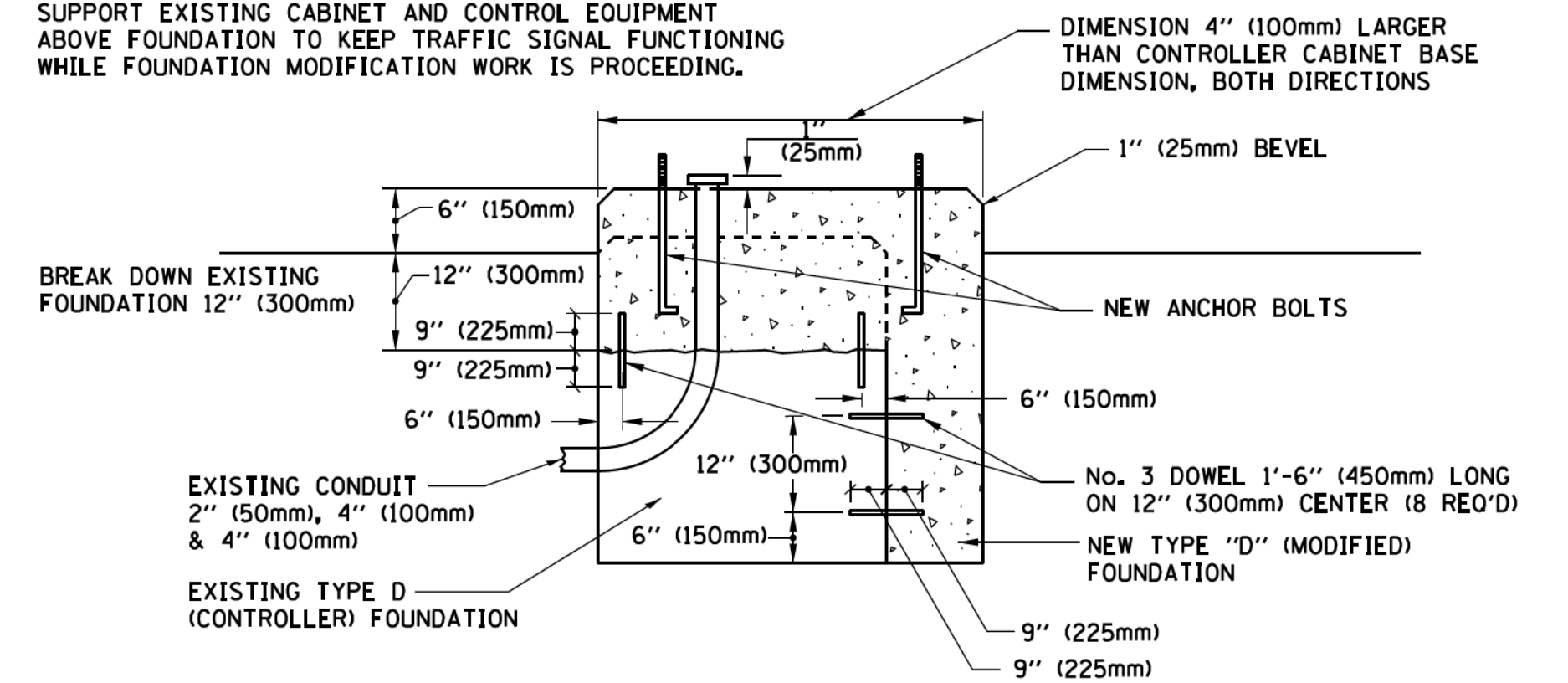
SHROUD

NOTES:

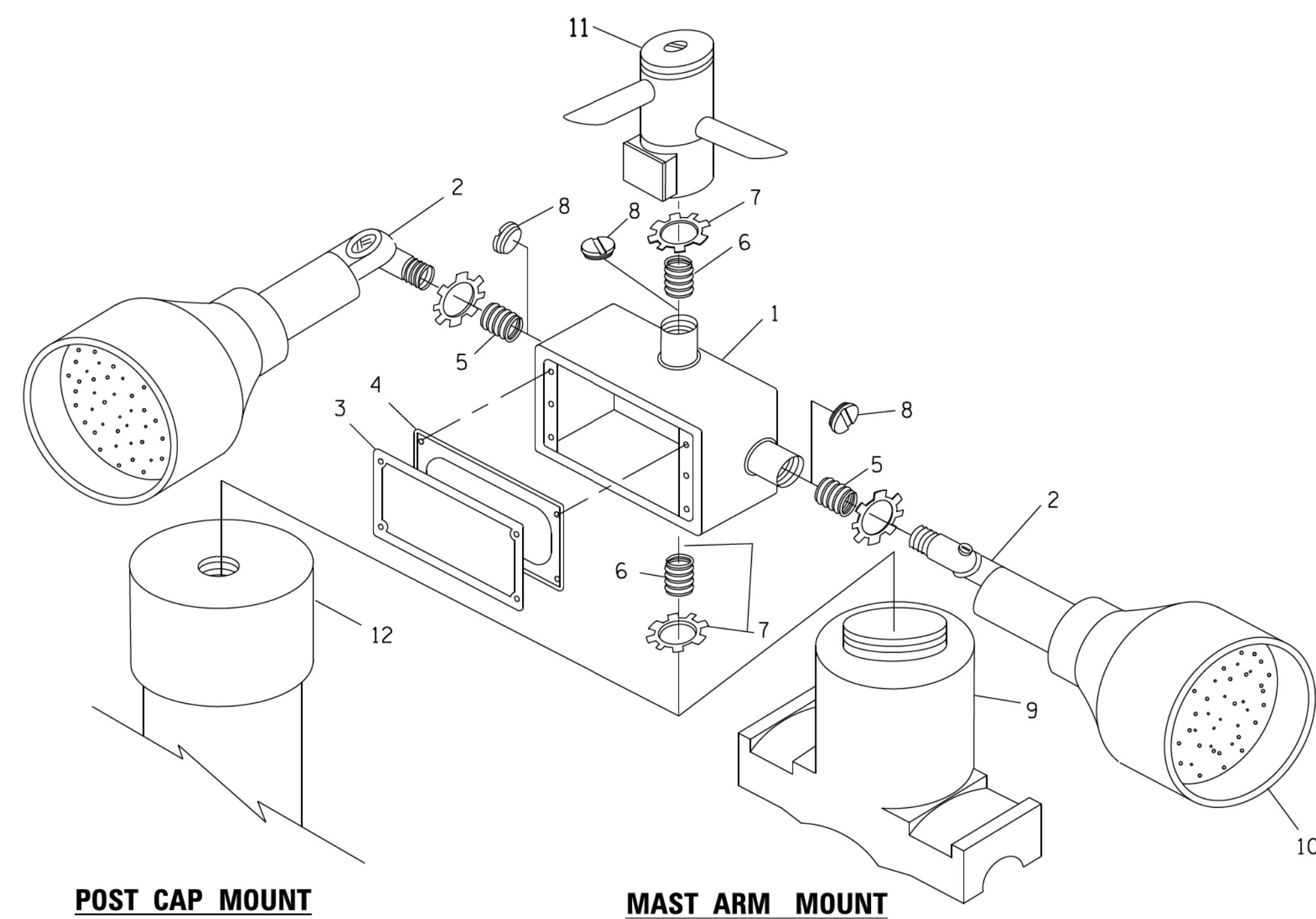
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION

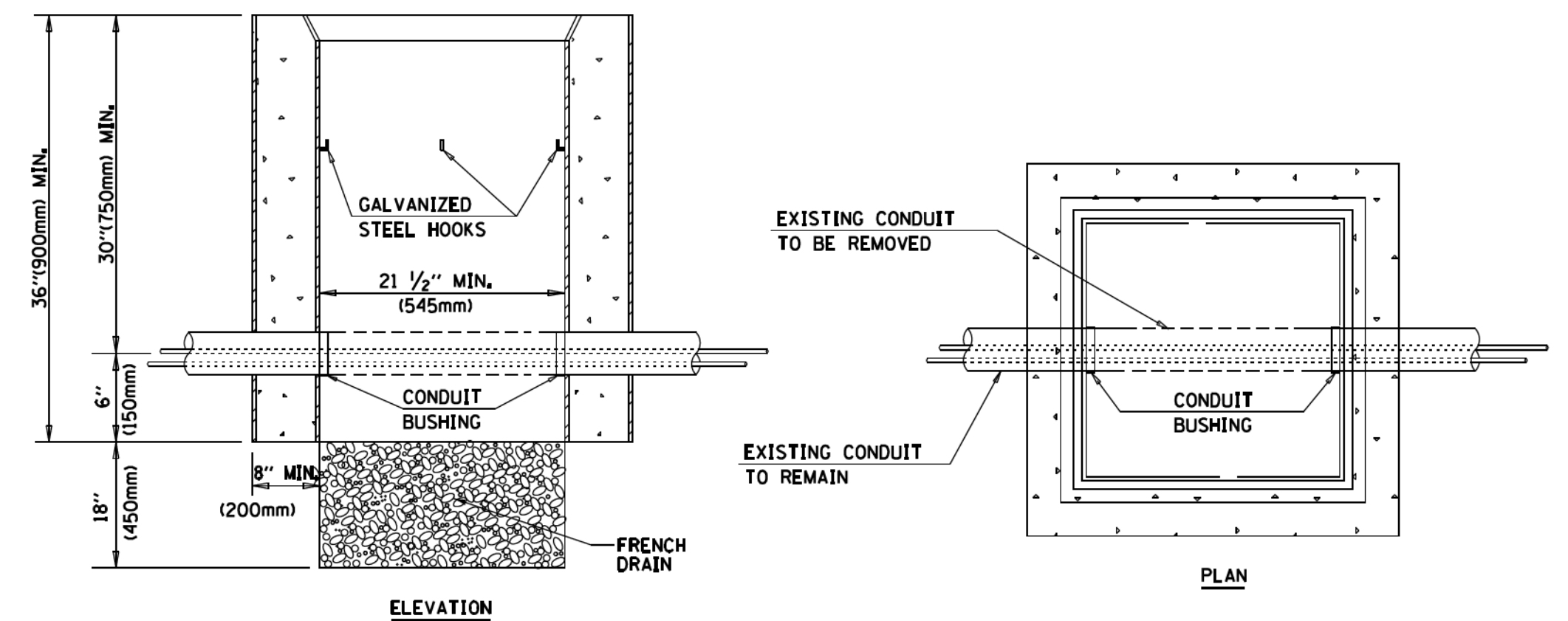


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

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



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

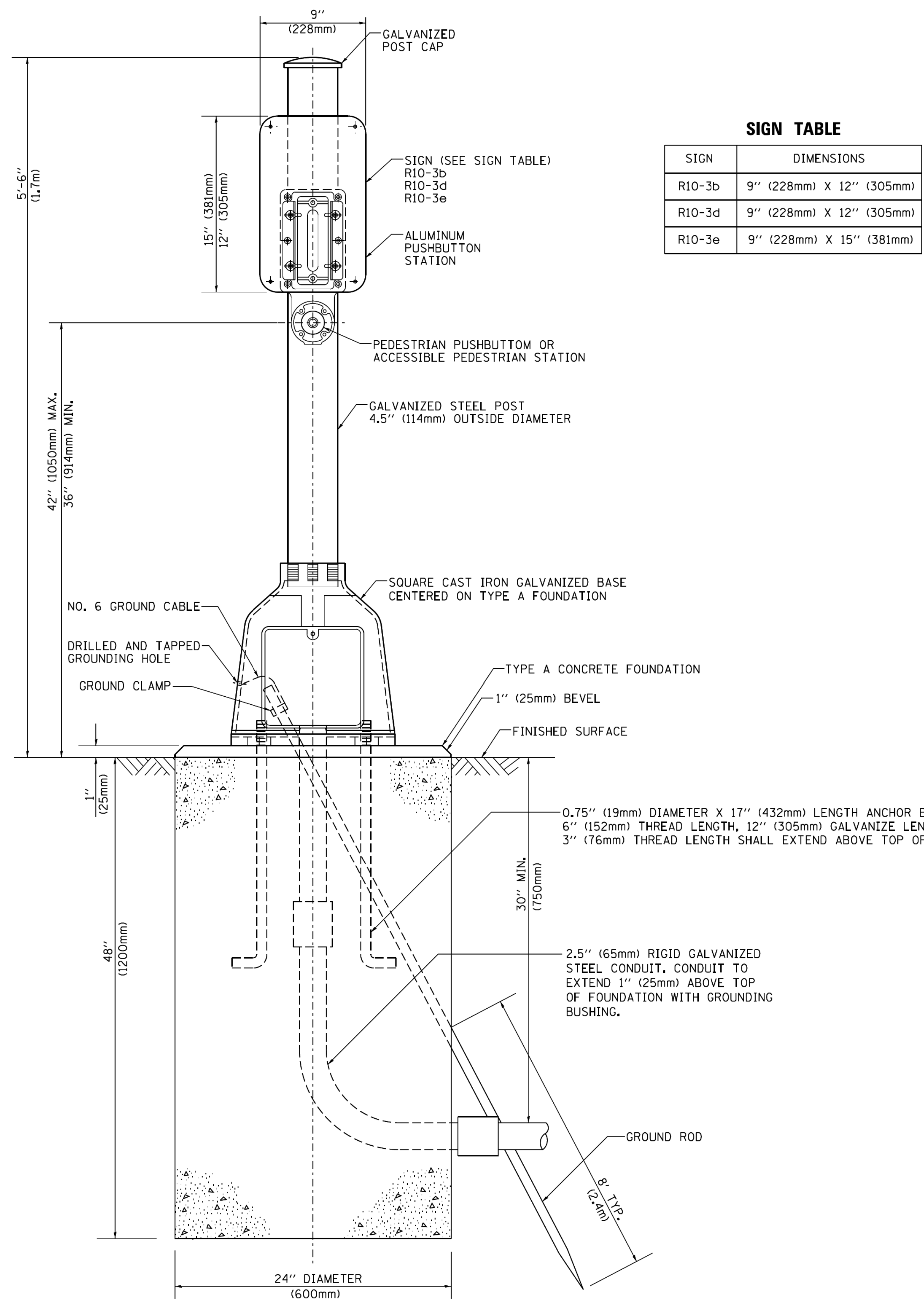
COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC. ...
 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:04:59 PM
 FILE NAME: C:\pwworkspace\lakes\cyril\170562-Rt 14 at Virginia\CADD\170562-Sht-DI-TS05-Detail.dgn
 FILE MODIFIED: C:\pwworkspace\lakes\cyril\170562-Rt 14 at Virginia\CADD\170562-Sht-DI-TS05-Detail.dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
C:\pwworkspace\lakes\cyril\170562-Rt 14 at Virginia\CADD\170562-Sht-DI-TS05-Detail.dgn		DRAWN - BCK	REVISED -
PLOT SCALE = 50.0000 / 1 in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

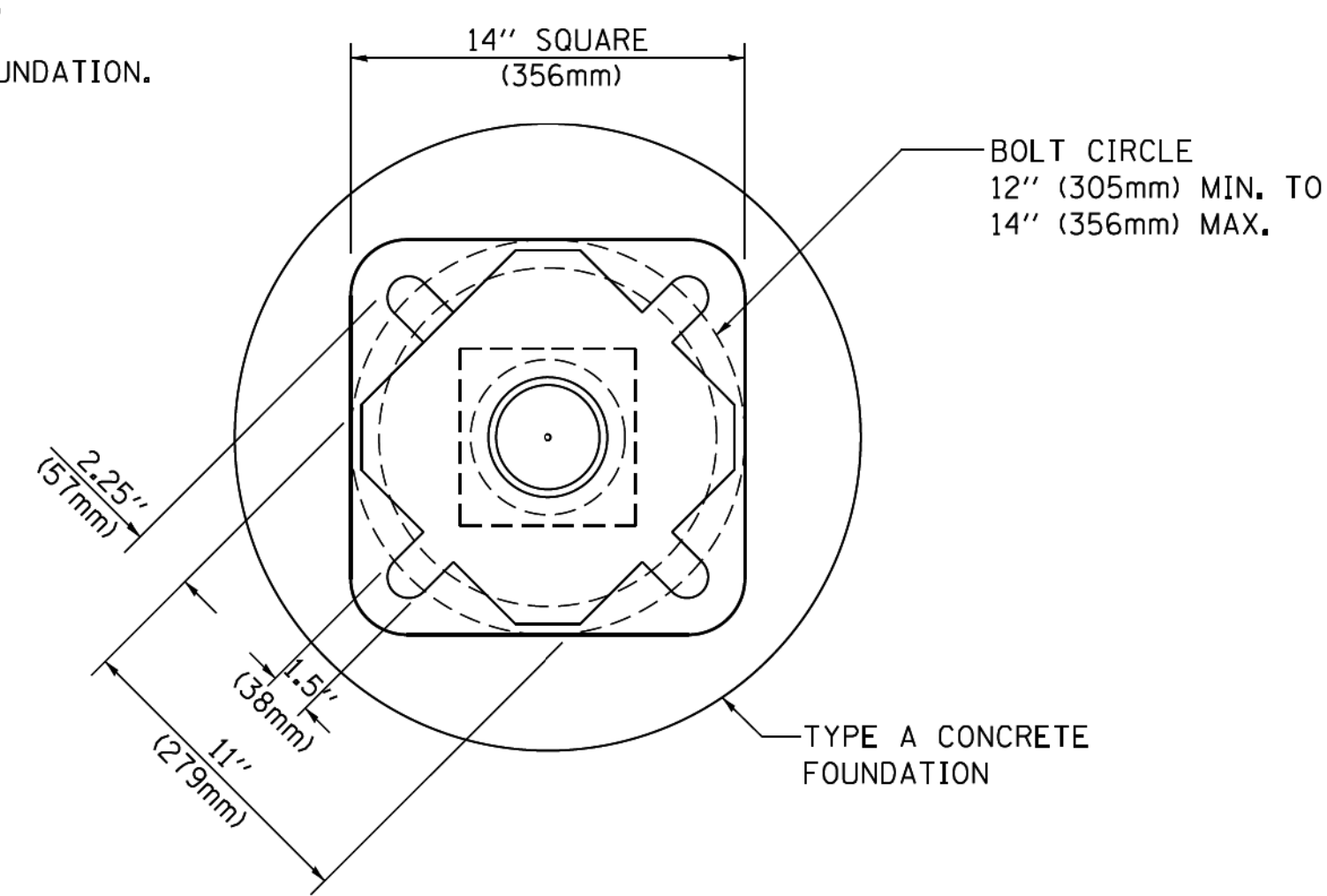
DISTRICT ONE		F.A.P./F.A.U.	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		SECTION	70	30
SCALE: NONE		TS-05	CONTRACT NO. 1F23	
SHEET NO. 6 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT #1554		

COPYRIGHT © 2018, BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. = 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:05:16 PM
 FILE NAME: I:\CADD\170562-RL 14 at Virginia\CADD\170562-Sht-D1-TS05-Details.dgn
 FILE NAME: I:\CADD\170562-RL 14 at Virginia\CADD\170562-Sht-D1-TS05-Details.dgn



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 =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ca:\pwork\psidot\footemj\d0188315\ts05.dgn		DRAWN - GND	REVISED -
PLOT SCALE = 50.0000 / 1 in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

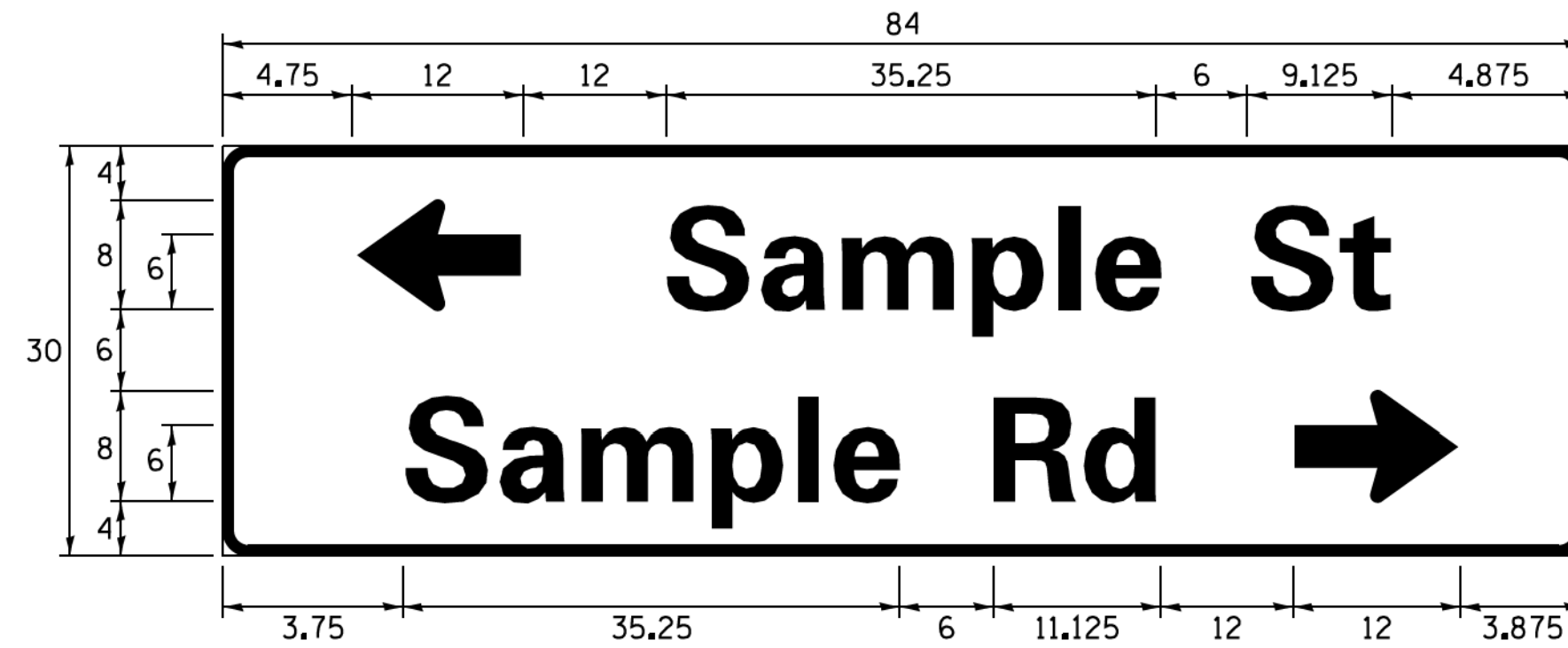
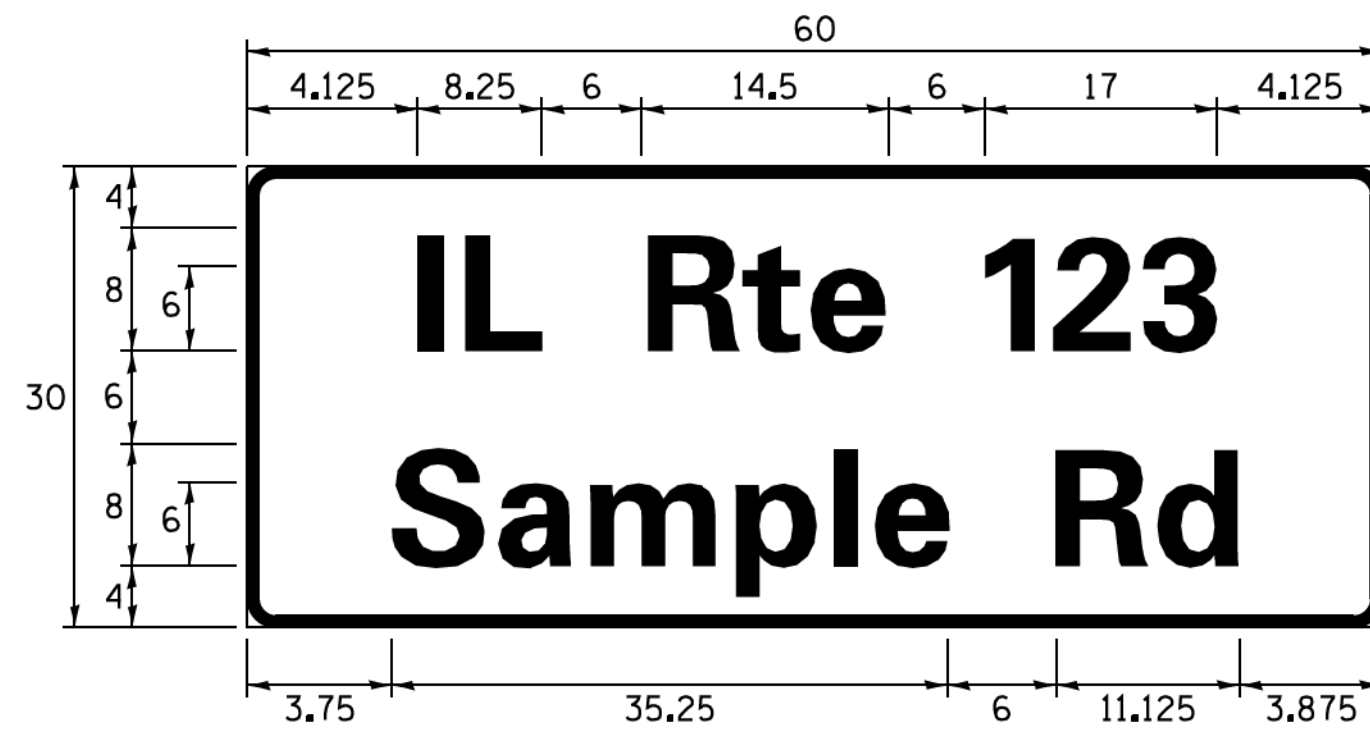
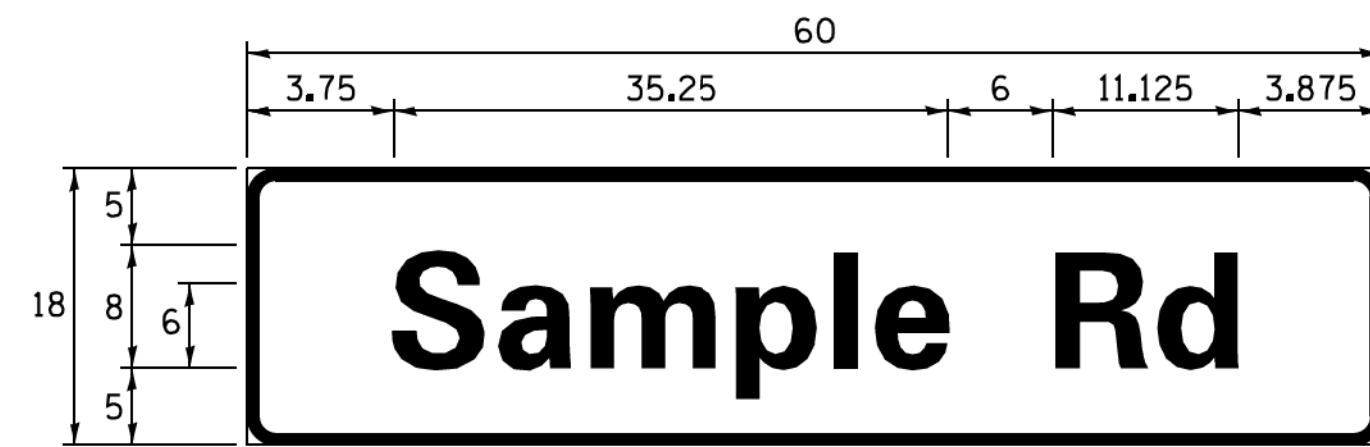
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A. RTE. 305-0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 31
TS-05		CONTRACT NO. 61F23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554				

SIGN PANEL – TYPE 1 OR TYPE 2



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

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

LOCAL SUPPLIERS:

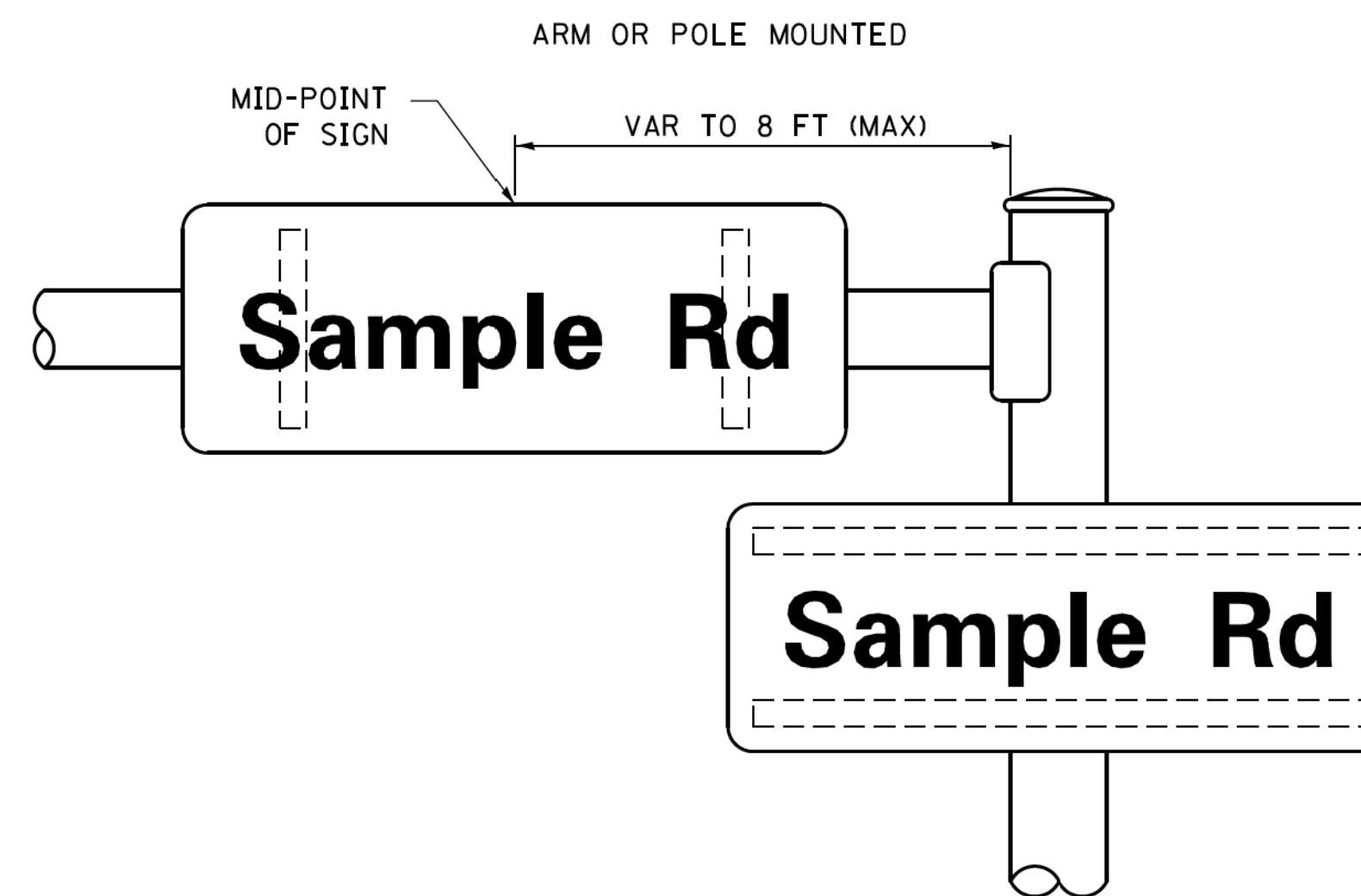
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

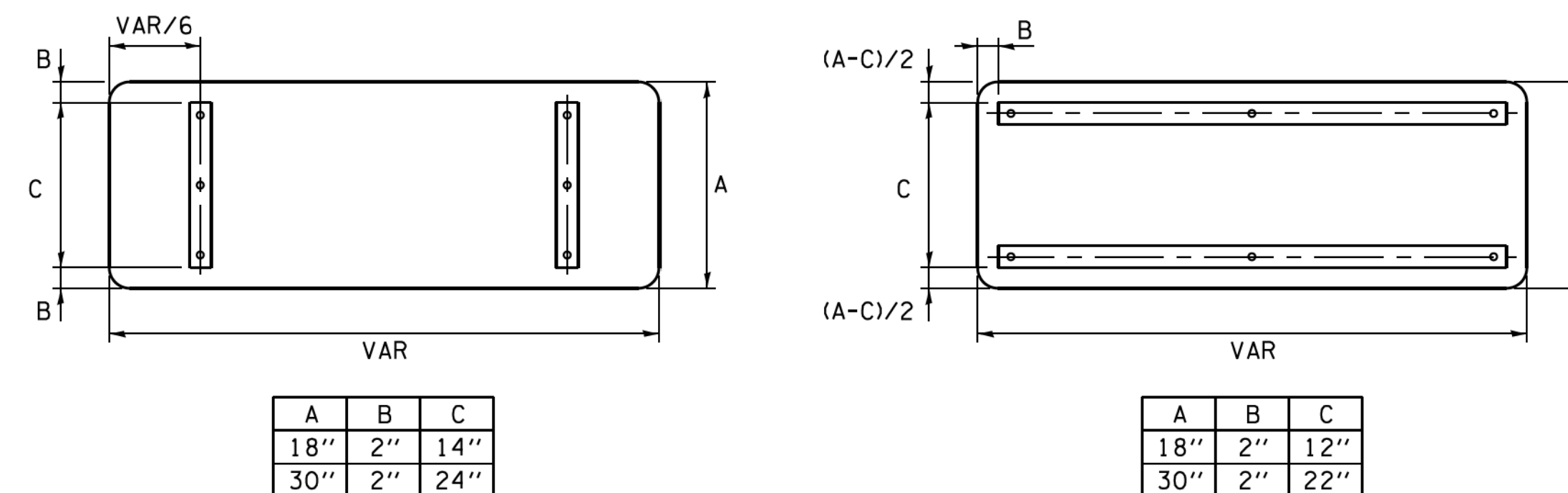
- SIGN CHANNEL PART *HPN053 (MED, CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART *HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

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

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

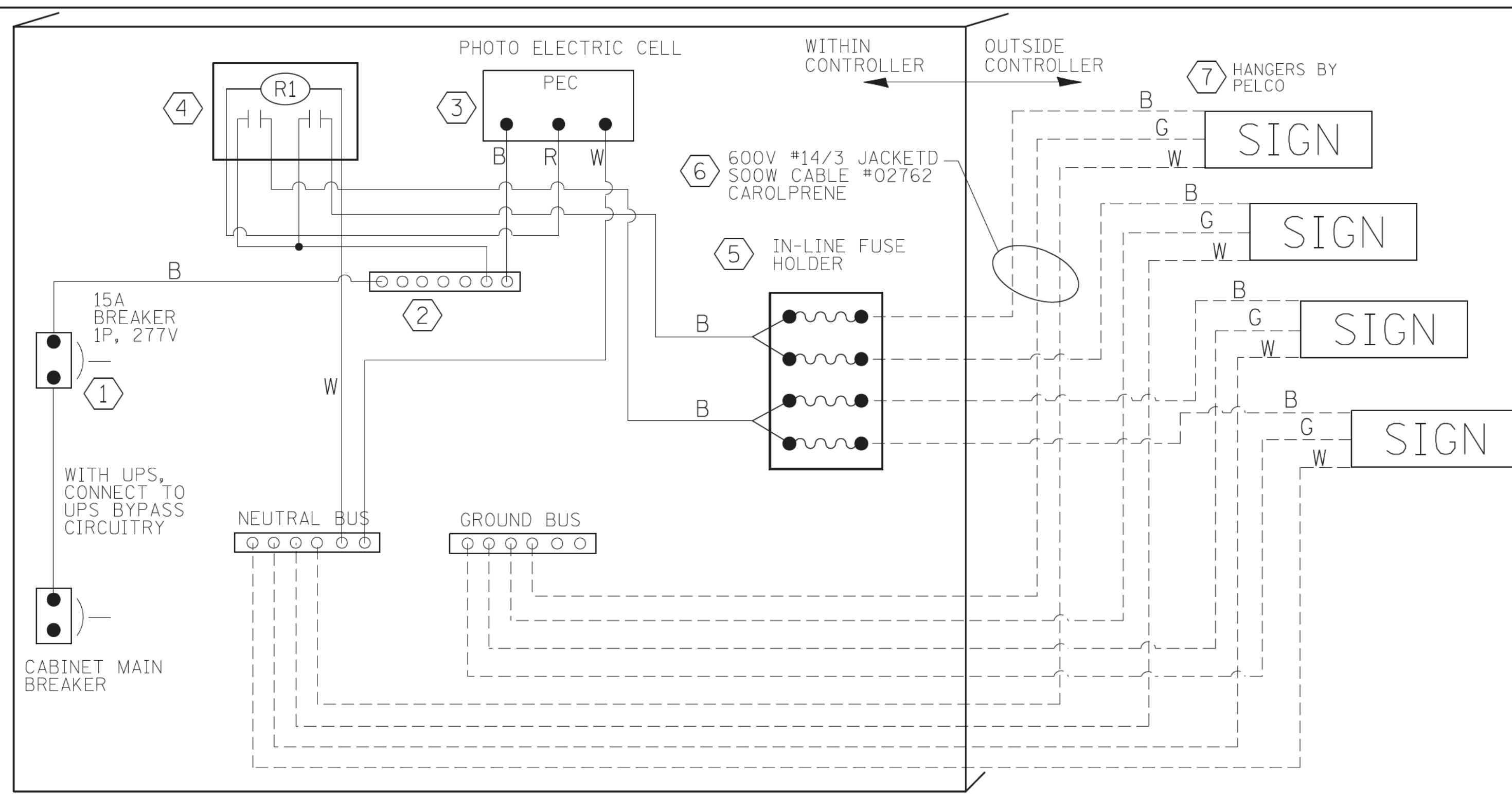
(8") UPPER CASE AND (6") LOWER CASE

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

COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC. ...
 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560 KAR 11/8/2018 12:05:51 PM
 FILE NAME: C:\Users\Baxter.Lake\OneDrive\Illinois\Projects\170562-RT-14 at Virginita\CADD\170562-Sht-D1-TS02-Def.dgn
 FILE NAME: C:\Users\Baxter.Lake\OneDrive\Illinois\Projects\170562-Sht-D1-TS02-Def.dgn

FILE NAME =	USER NAME = drvskosgn	DESIGNED - LP/IP	REVISED - LP 07/01/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS	F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	17-00125-00-CH	CHECKED - IP	REVISED -			TS-02	MCHENRY	70	32	
PLOT SCALE = 50.0000 / 1 in.	DATE - 10/01/2014	REVISIONS	CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT QIK31554				
PLOT DATE = 7/31/2015	SCALE:	SHEET OF SHEETS	STA. TO STA.							

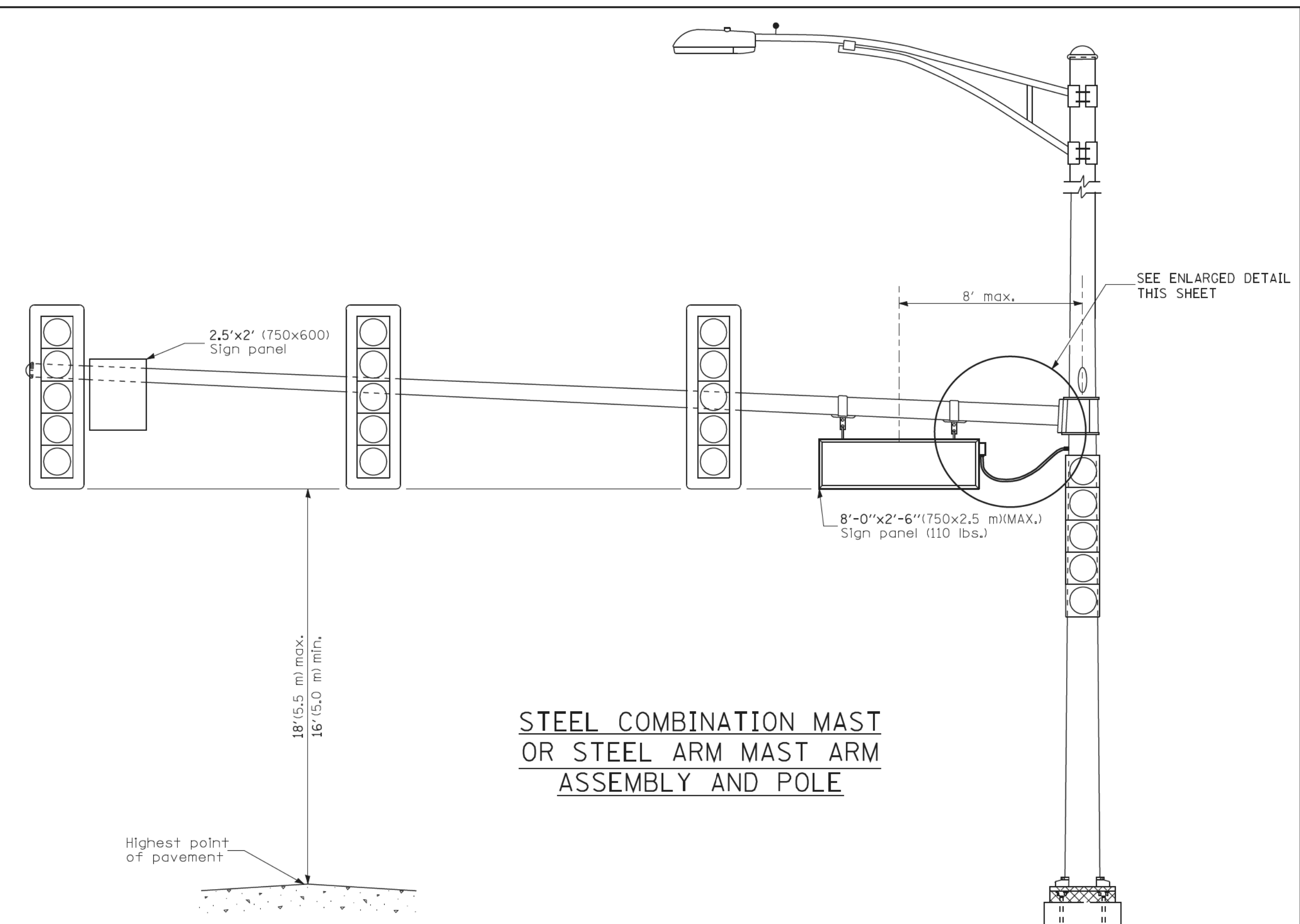
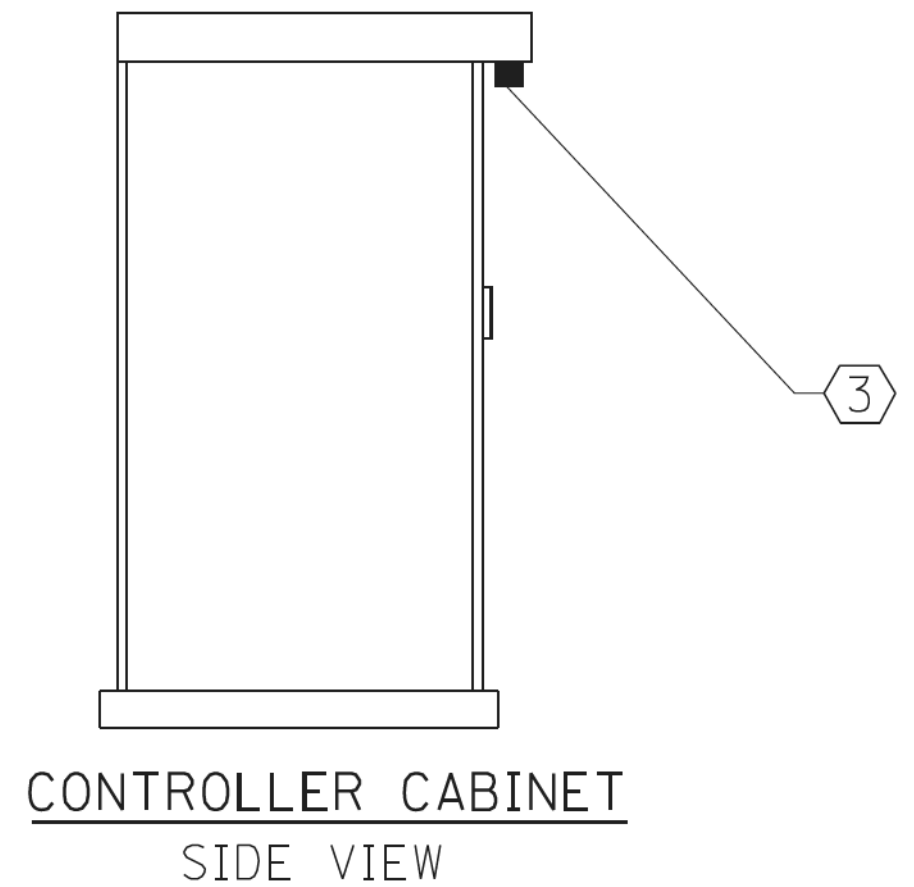
COPYRIGHT © 2018 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560 KARL ST. LOUIS, MO 63105
 11/28/2018 12:05:45 PM
 FILE NAME: C:\Users\Baker\OneDrive\Documents\Lighted-Sign-Details.dgn
 FILE PATH: C:\Users\Baker\OneDrive\Documents\Lighted-Sign-Details.dgn
 FILE NAME: C:\Users\Baker\OneDrive\Documents\Lighted-Sign-Details.dgn
 FILE PATH: C:\Users\Baker\OneDrive\Documents\Lighted-Sign-Details.dgn



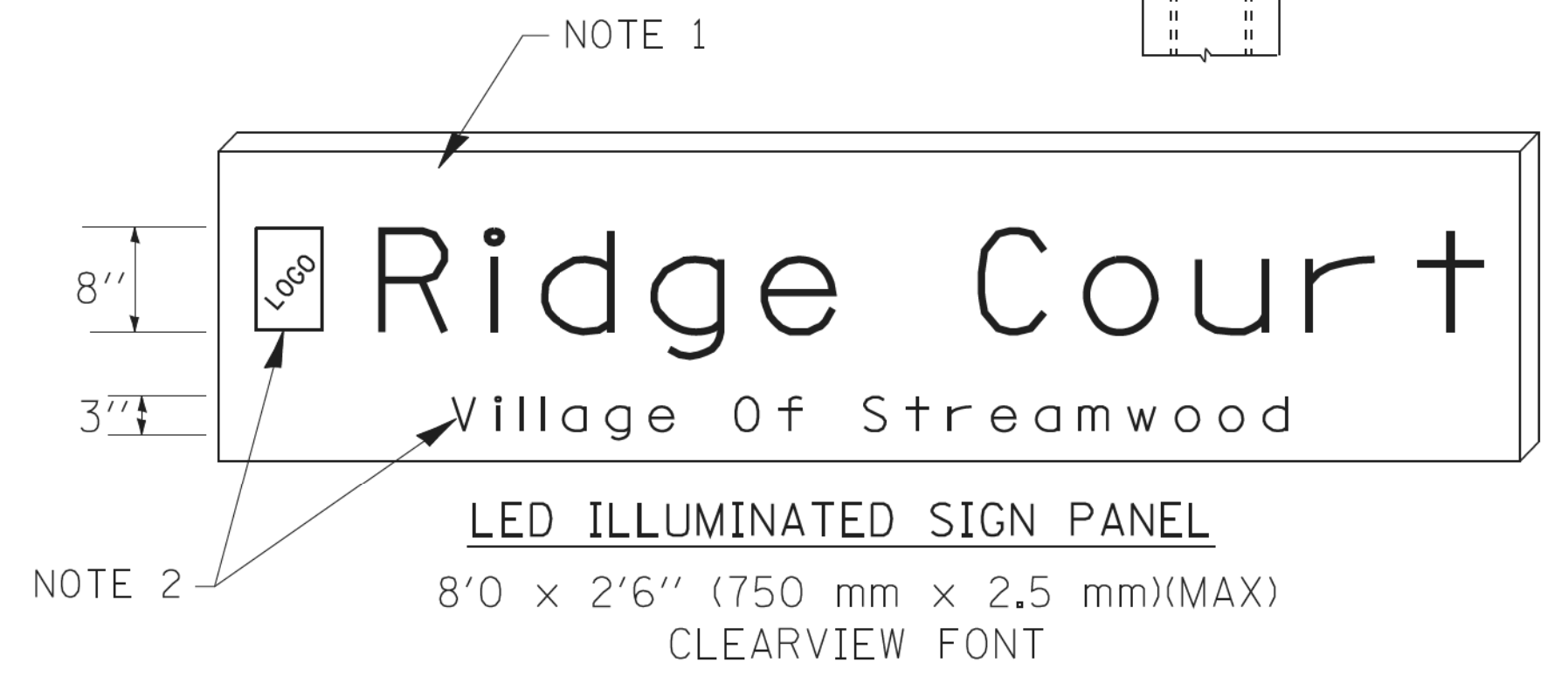
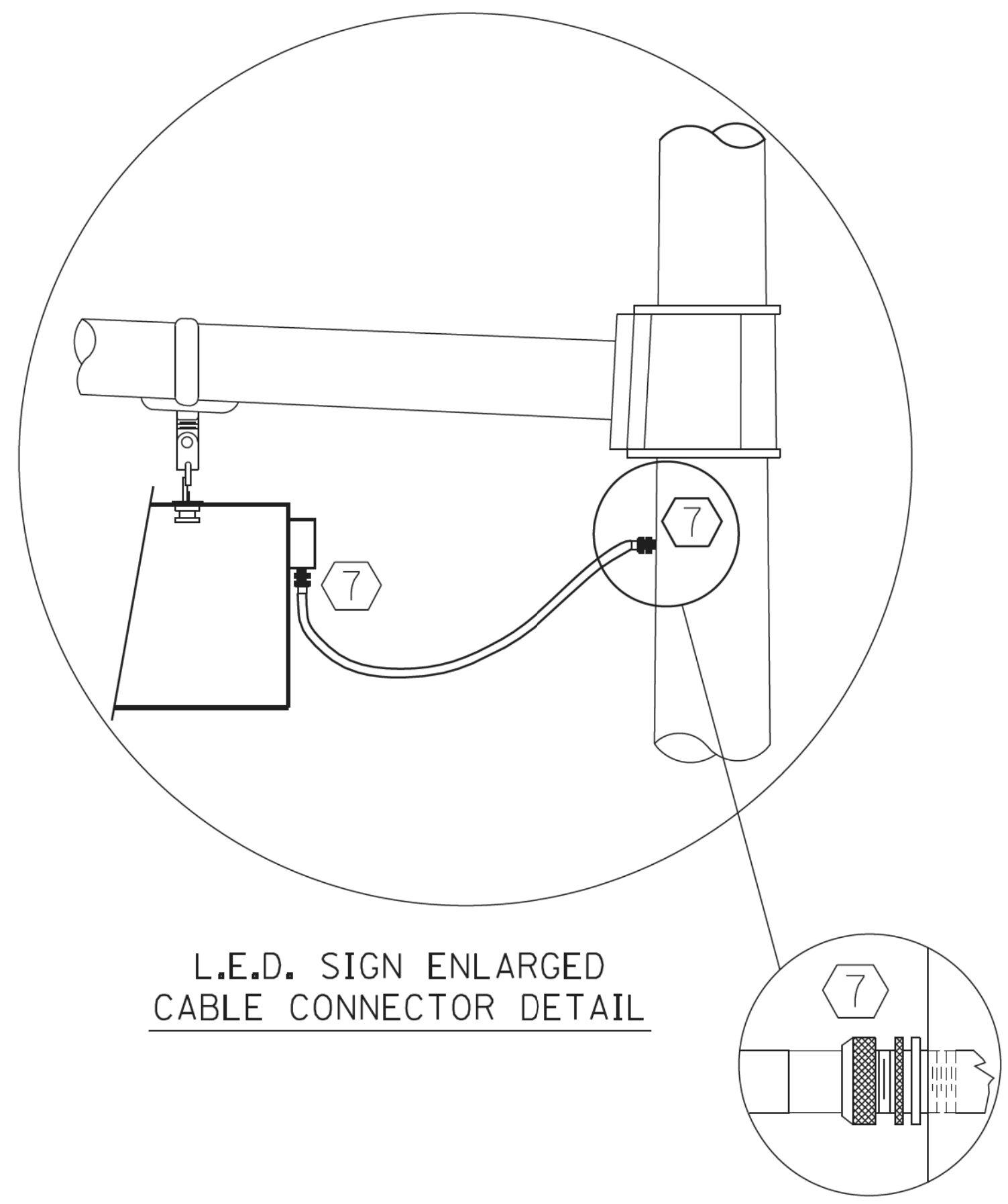
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

BILL OF MATERIALS



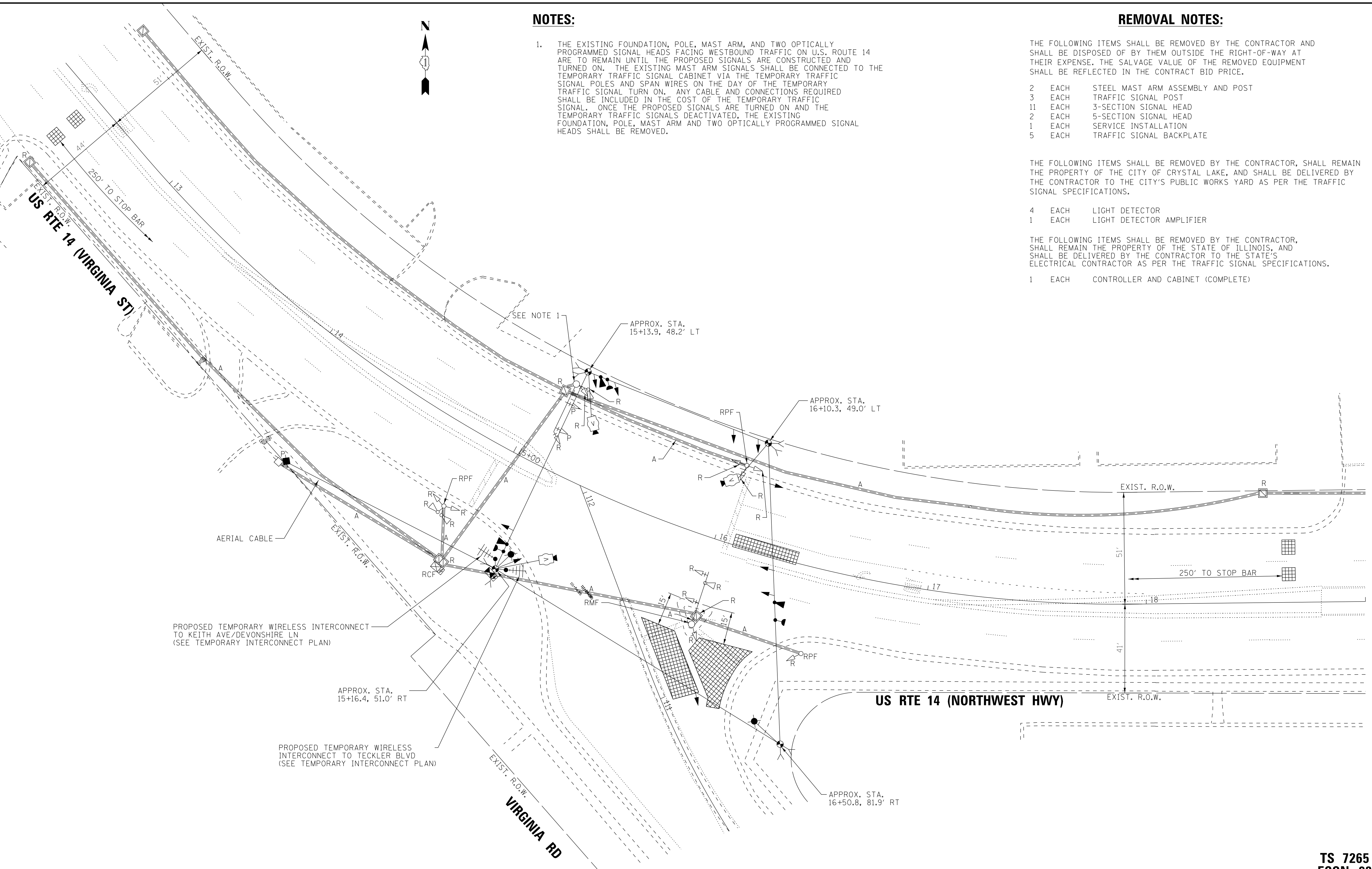
STEEL COMBINATION MAST OR STEEL ARM MAST ASSEMBLY AND POLE



NOTES:

- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
 R = RED BL = BLUE W = WHITE
 B = BLACK Y = YELLOW G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:40:51 PM
 FILE NAME: I:\C:\Users\Baker\OneDrive\Illinois\Projects\170562-Sht-Pre-StageTemp-TS-Rte14-Virginia.dgn



NOTES:

1. THE EXISTING FOUNDATION, POLE, MAST ARM, AND TWO OPTICALLY PROGRAMMED SIGNAL HEADS FACING WESTBOUND TRAFFIC ON U.S. ROUTE 14 ARE TO REMAIN UNTIL THE PROPOSED SIGNALS ARE CONSTRUCTED AND TURNED ON. THE EXISTING MAST ARM SIGNALS SHALL BE CONNECTED TO THE TEMPORARY TRAFFIC SIGNAL CABINET VIA THE TEMPORARY TRAFFIC SIGNAL POLES AND SPAN WIRES ON THE DAY OF THE TEMPORARY TRAFFIC SIGNAL TURN ON. ANY CABLE AND CONNECTIONS REQUIRED SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL. ONCE THE PROPOSED SIGNALS ARE TURNED ON AND THE TEMPORARY TRAFFIC SIGNALS DEACTIVATED, THE EXISTING FOUNDATION, POLE, MAST ARM AND TWO OPTICALLY PROGRAMMED SIGNAL HEADS SHALL BE REMOVED.

REMOVAL NOTES:

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

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 11 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 5 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE CITY OF CRYSTAL LAKE, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE CITY'S PUBLIC WORKS YARD AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 4 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE OF ILLINOIS, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S ELECTRICAL CONTRACTOR AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)



USER NAME = 560KAR	DESIGNED - RWL	REVISED -
DRAWN - UKB	CHECKED - RWL	REVISED -
PLOT SCALE = 20.0000' / in.	DATE - 10-04-18	FILE - 170562-Sht-Pre-StageTemp-TS-Rte14-Virginia.dgn
PLOT DATE = 11/8/2018		

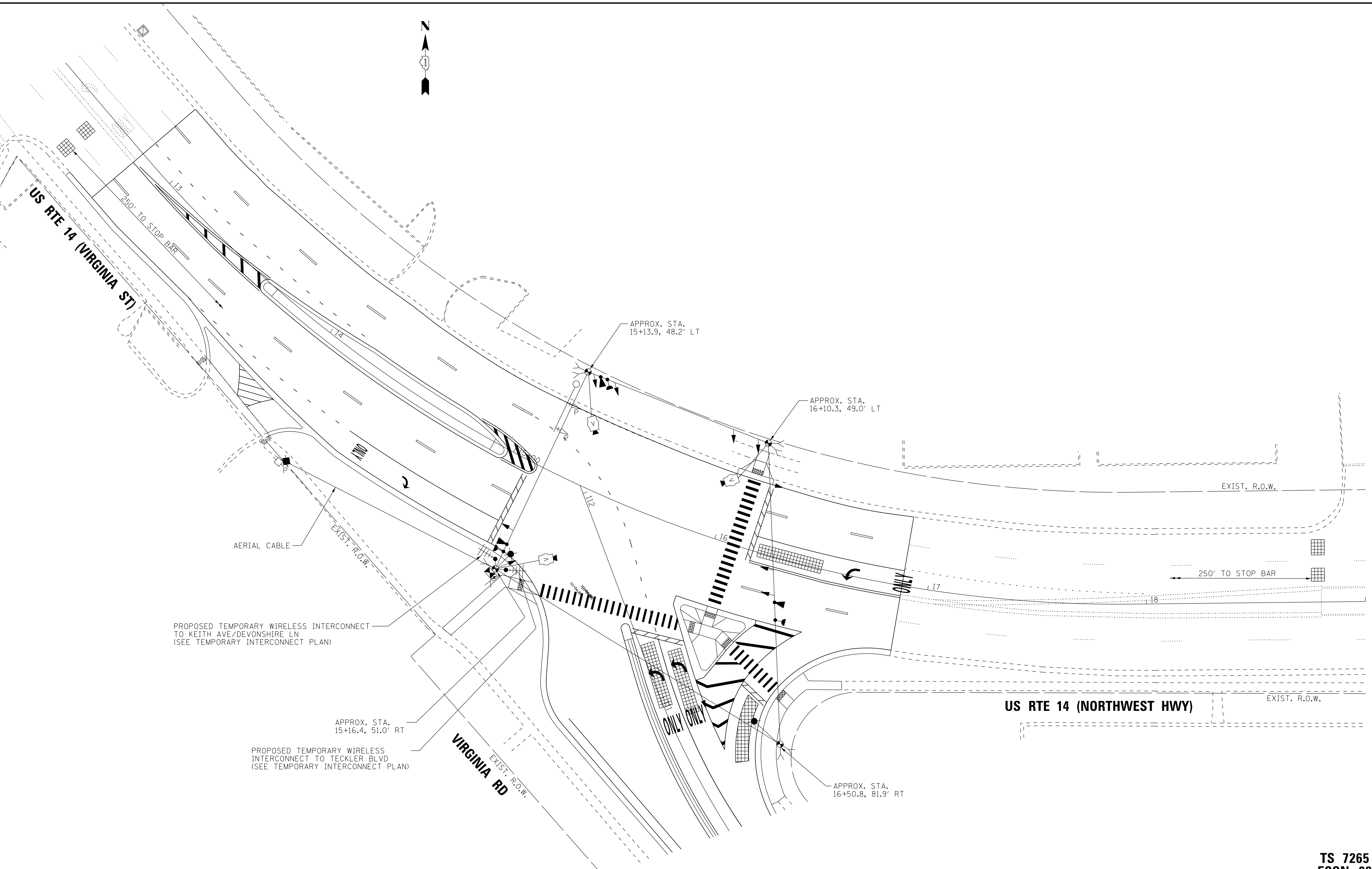
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PRE-STAGE SIGNAL HEAD PLACEMENT
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 1 OF 1)
US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD - PRE-STAGE

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 34
CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT QIK3(554)	

TS 7265
 ECON 23

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:05:58 PM
 FILE NAME: I:\Cyrstal Lake\CRX\CVT\70562-Rt 14 at Virginia\CADD\170562-Sht-Stge1-Temp-TS-Rte14-Virginia.dgn
 FILE NAME: I:\Cyrstal Lake\CRX\CVT\70562-Rt 14 at Virginia\CADD\170562-Sht-Stge1-Temp-TS-Rte14-Virginia.dgn



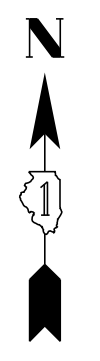
USER NAME = 560KAR	DESIGNED - RWL	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - RWL	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-Stge1-Temp-TS-Rte14-Virginia.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

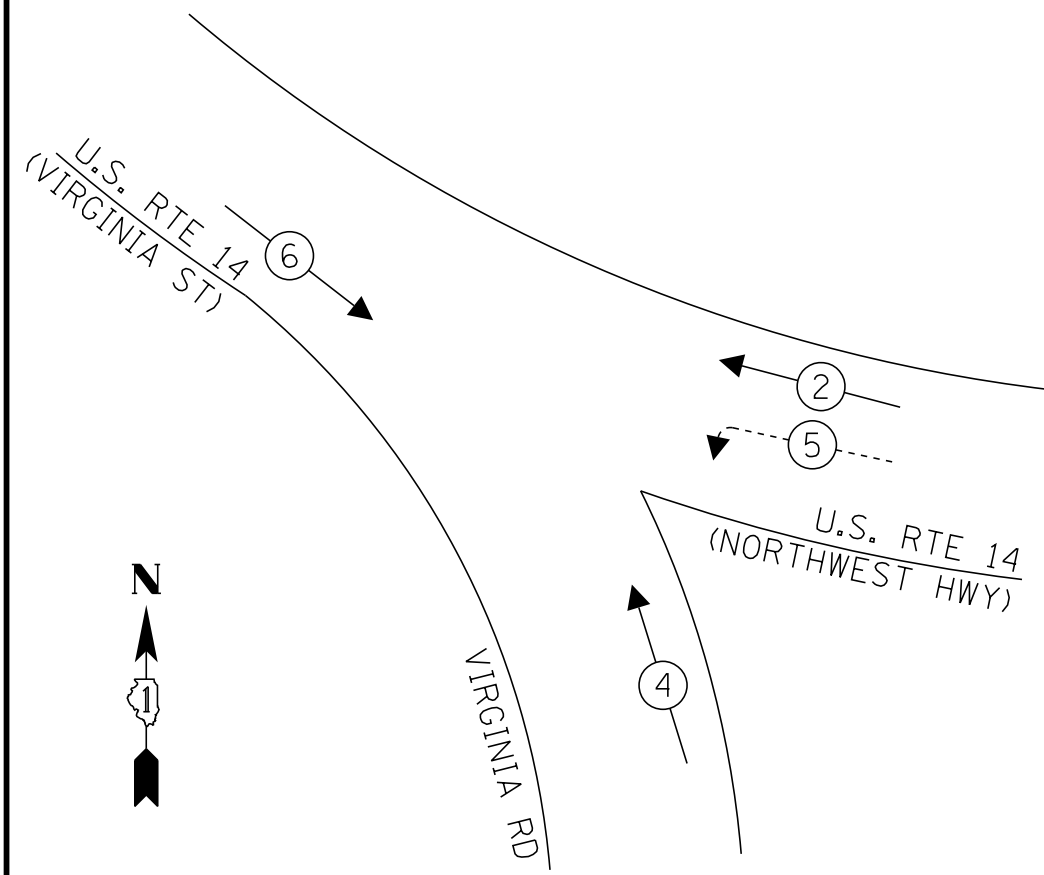
**STAGE 1 SIGNAL HEAD PLACEMENT
 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 (SHEET 1 OF 1)
 US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD - STAGE 1**

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 35
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

**TS 7265
 ECON 23**



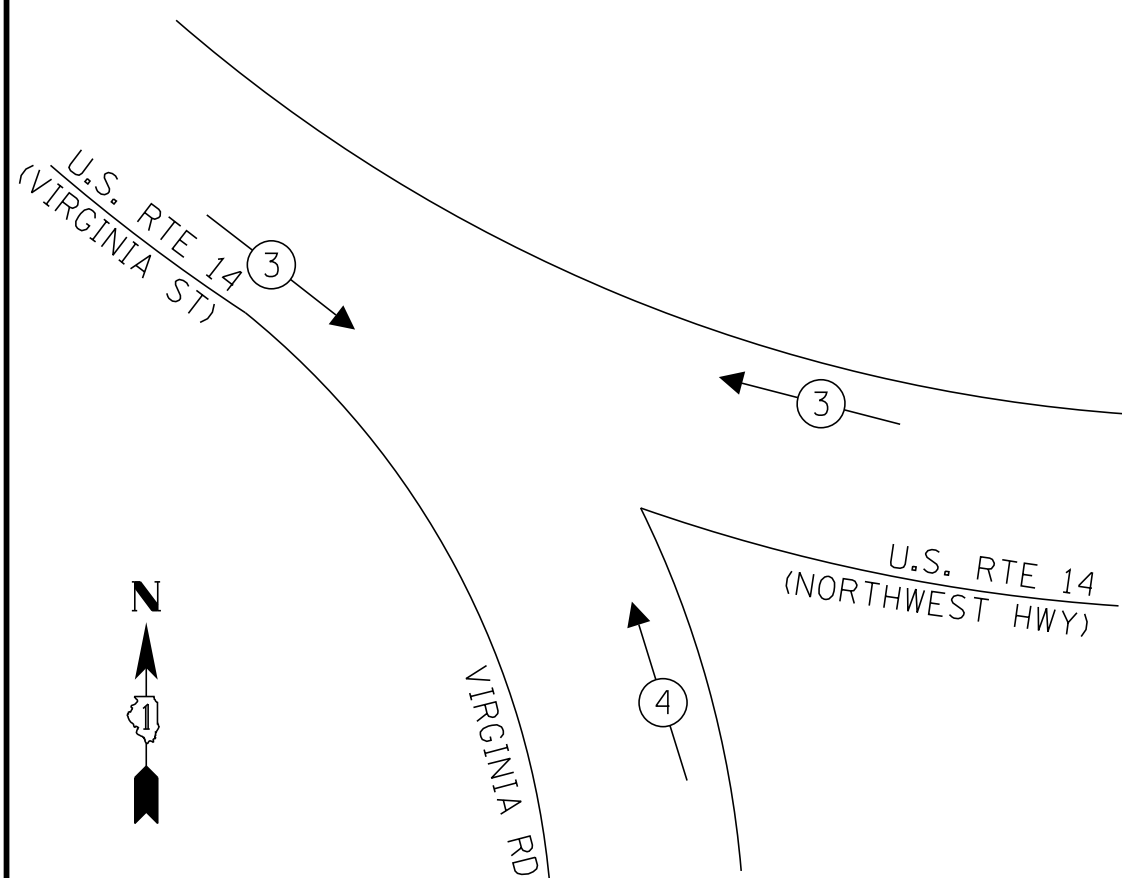
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊛) → PROTECTED PHASE
- ← (⊛) - - - - - PROTECTED/PERMITTED PHASE
- ← (⊛) → PEDESTRIAN PHASE
- ← (⊛) → OL OVERLAP

**TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



PROPOSED TEMPORARY WIRELESS INTERCONNECT
TO KEITH AVE/DEVONSHITE LN
(SEE TEMPORARY INTERCONNECT PLAN)

PROPOSED TEMPORARY WIRELESS INTERCONNECT
TO TECKLER BLVD
(SEE TEMPORARY INTERCONNECT PLAN)

TEMPORARY CABLE PLAN

(NOT TO SCALE)

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				421.8

ENERGY COSTS TO:

CITY OF CRYSTAL LAKE
100 WEST WOODSTOCK STREET
CRYSTAL LAKE, IL 60014

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: _____
ACCOUNT NUMBER: _____

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. = 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:05:59 PM
 FILE NAME: C:\Crystal Lake\CRYL\70562-Rt 14 at Virginia\CADD\70562-Sht-TS-Cable-Rte14-Virginia.dgn



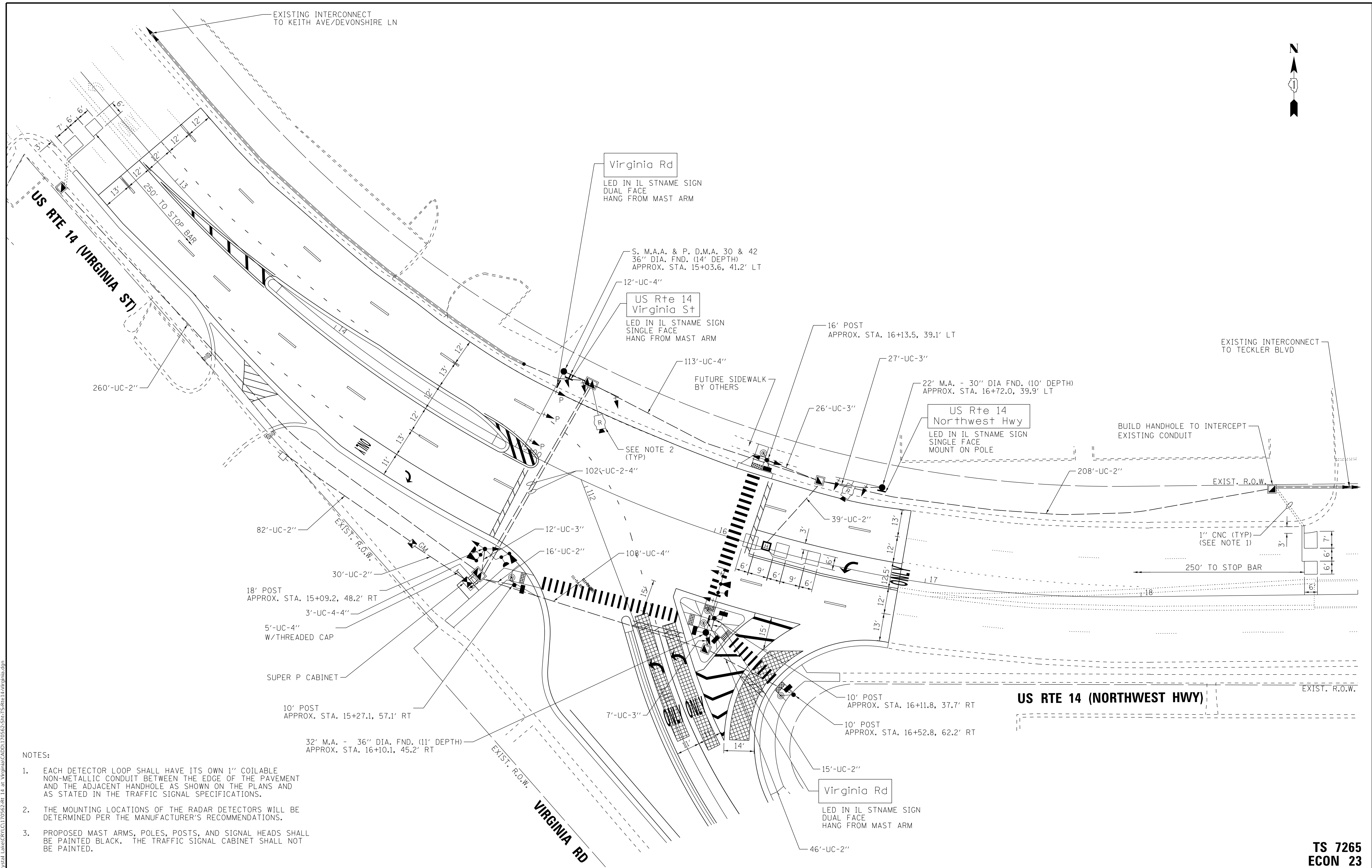
USER NAME = 560KAR	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/8/2018	CHECKED -	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-Temp-TS-Cable-Rte14-Virginia.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY PREEMPTION SEQUENCE**
US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD - PRE-STAGE AND STAGE 1
 SCALE: NO SCALE SHEET OF SHEETS STA. TO STA.

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 36
CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT QIK31554	

**TX 7265
ECON 23**



- NOTES:
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF THE PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
 2. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
 3. PROPOSED MAST ARMS, POLES, POSTS, AND SIGNAL HEADS SHALL BE PAINTED BLACK. THE TRAFFIC SIGNAL CABINET SHALL NOT BE PAINTED.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:00 PM
 FILE NAME: UCYS5B1 LakeCreek\170562-Rt 14 at Virginia\CADD\170562-Sht-TS-Rte14-Virginia.dgn
 FILE NAME: UCYS5B1 LakeCreek\170562-Sht-TS-Rte14-Virginia.dgn

BAXTER & WOODMAN Consulting Engineers	USER NAME = 560KAR	DESIGNED - RWL	REVISED -
	PLOT SCALE = 20.0000' / in.	DRAWN - UKB	REVISED -
	PLOT DATE = 11/8/2018	CHECKED - RWL	REVISED -
		DATE - 10-04-18	FILE - 170562-Sht-TS-Rte14-Virginia.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
(SHEET 1 OF 1)
U.S. RTE 14 (NORTHWEST HWY) AND VIRGINIA RD

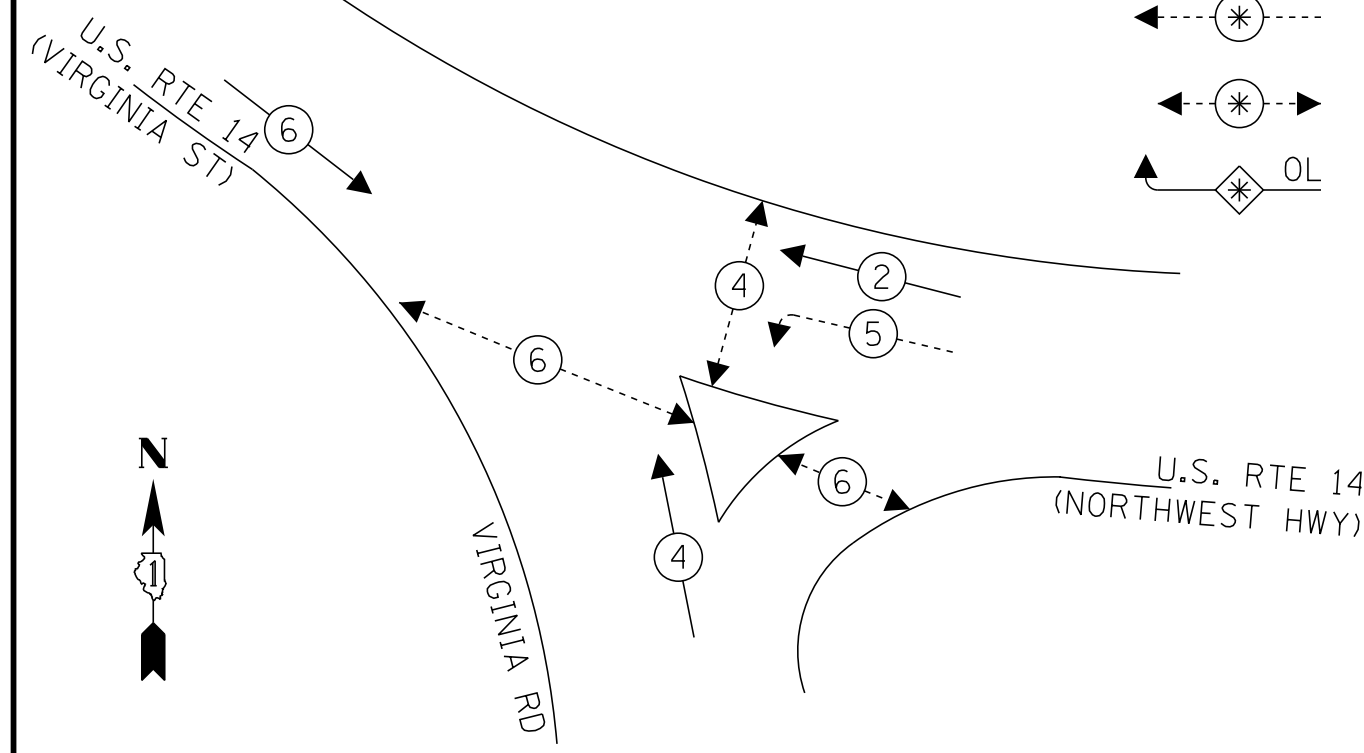
F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 37
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

TS 7265
ECON 23

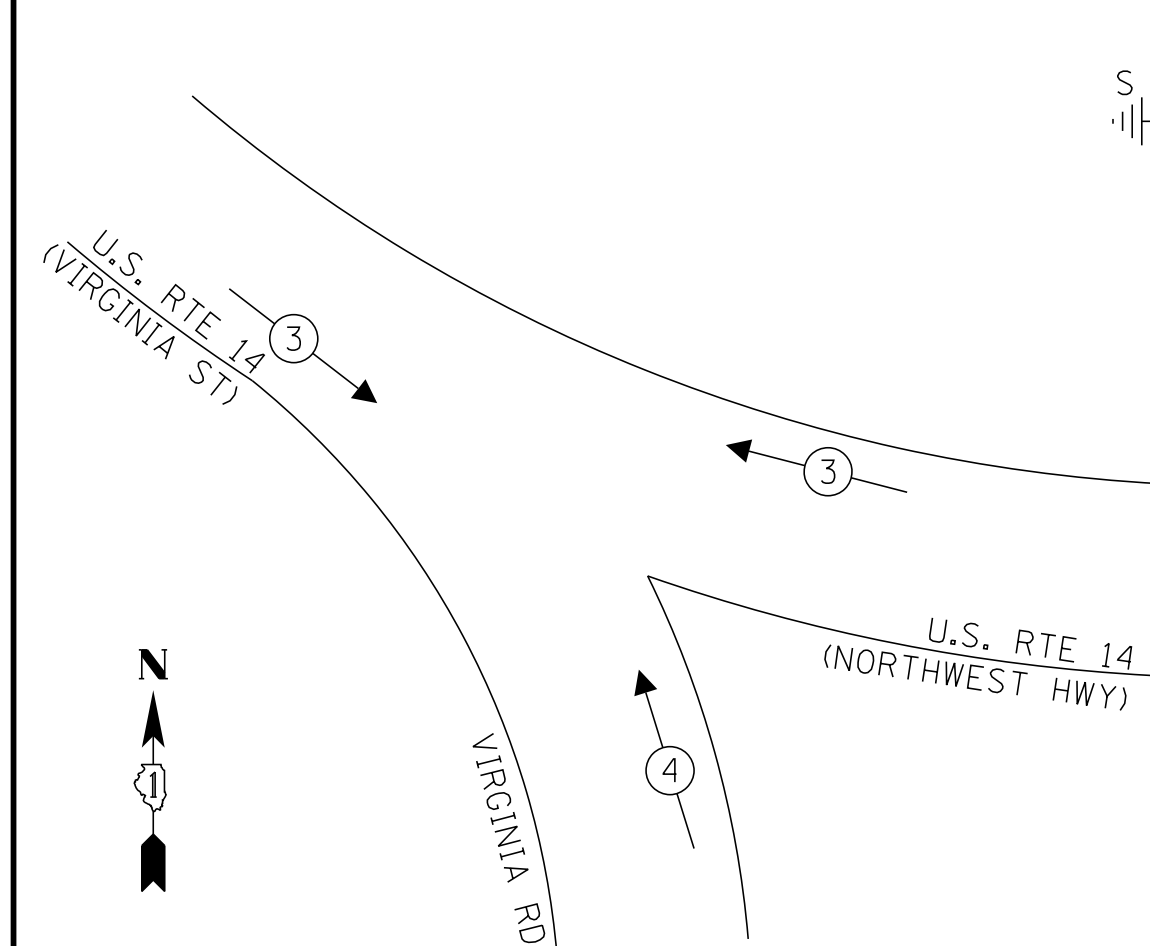
PROPOSED CONTROLLER SEQUENCE

LEGEND:

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



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



U.S. RTE 14 (VIRGINIA ST)

PROP. TRACER CABLE

PROP. INTERCONNECT TO KEITH AVE/DEVONSHIRE LN

PROP. TRACER CABLE

PROP INTERCONNECT TO TECKLER BLVD

US Rte 14 Northwest Hwy

U.S. RTE 14 (NORTHWEST HWY)

VIRGINIA RD

SUPER P CABINET

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	4	10	10	4.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	-	-	-	-
TOTAL =				817.5

ENERGY COSTS TO:

CITY OF CRYSTAL LAKE
100 WEST WOODSTOCK STREET
CRYSTAL LAKE, IL 60014

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: _____
ACCOUNT NUMBER: _____

BAXTER & WOODMAN
Consulting Engineers

USER NAME = 560KAR	DESIGNED - RWL	REVISED -
PLOT SCALE = 20.0000" / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - RWL	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-TS-Cable-Rte14-Virginia.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY PREEMPTION SEQUENCE
US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD**

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

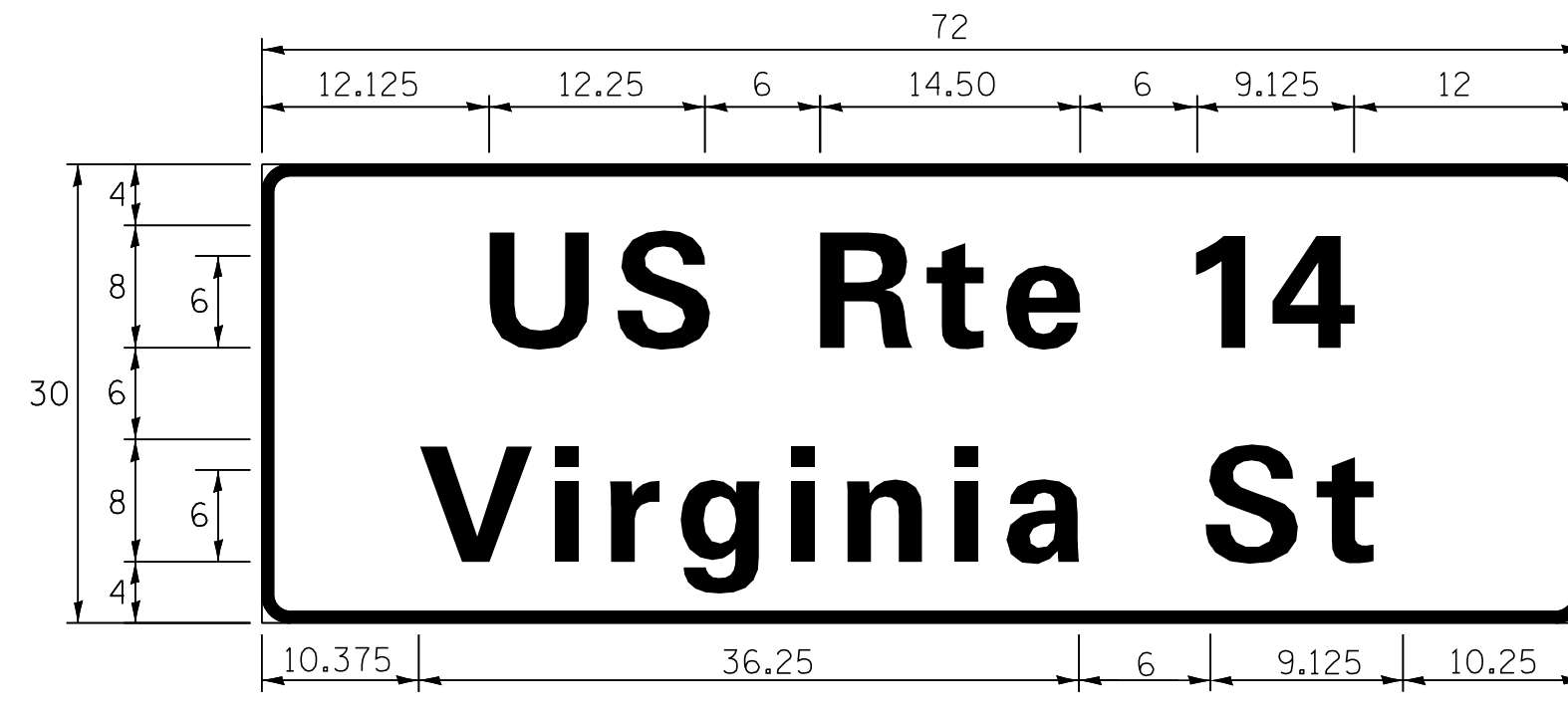
F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 38
ILLINOIS FED. AID PROJECT QIK3(554)			CONTRACT NO. 61F23	

TS 7265
ECON 23

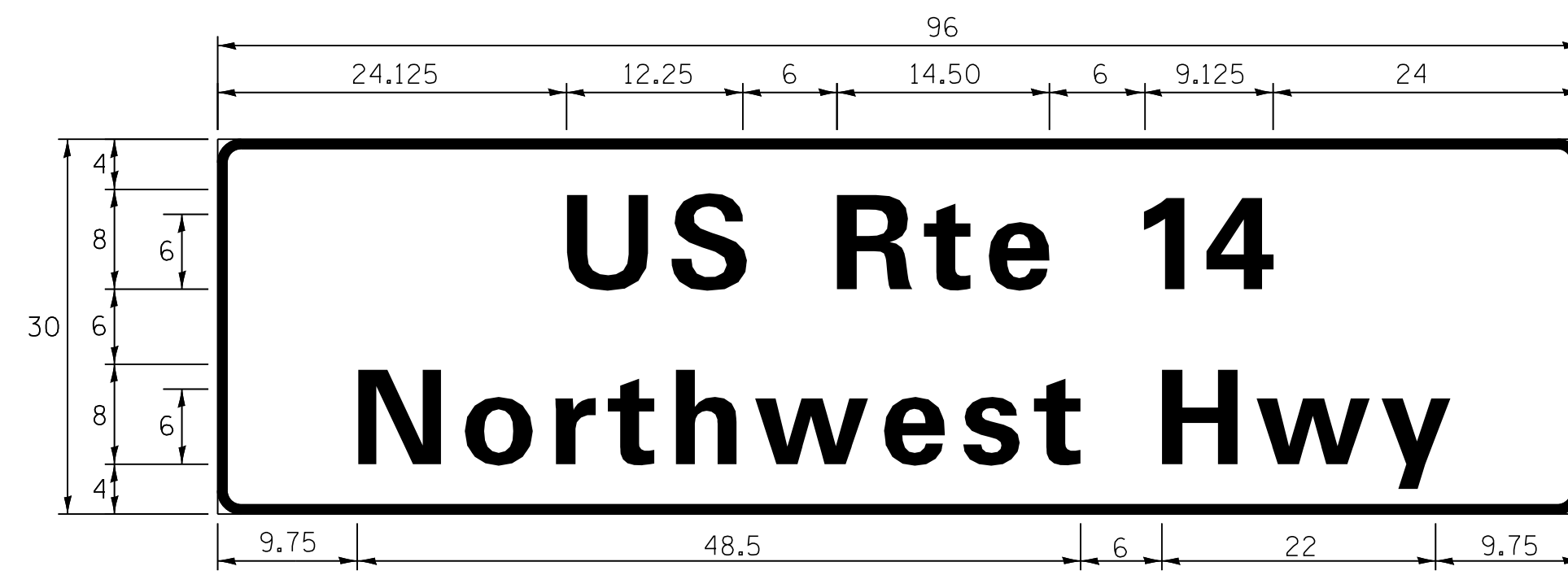
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:01PM
 FILE NAME: C:\Users\Baker\OneDrive\Documents\170562-Sht-TS-Cable-Rte14-Virginia.dgn
 FILE PATH: \\c:\users\baker\one\drive\documents\170562-sht-ts-cable-rte14-virginia.dgn
 FILE SIZE: 1000000 bytes
 FILE TYPE: AutoCAD Drawing Template
 FILE DATE: 11/8/2018 12:06:01 PM
 FILE TIME: 12:06:01 PM
 FILE EXTENSION: .dgn
 FILE CONTENTS: 170562-Sht-TS-Cable-Rte14-Virginia.dgn

SIGN PANEL – TYPE 1 OR TYPE 2

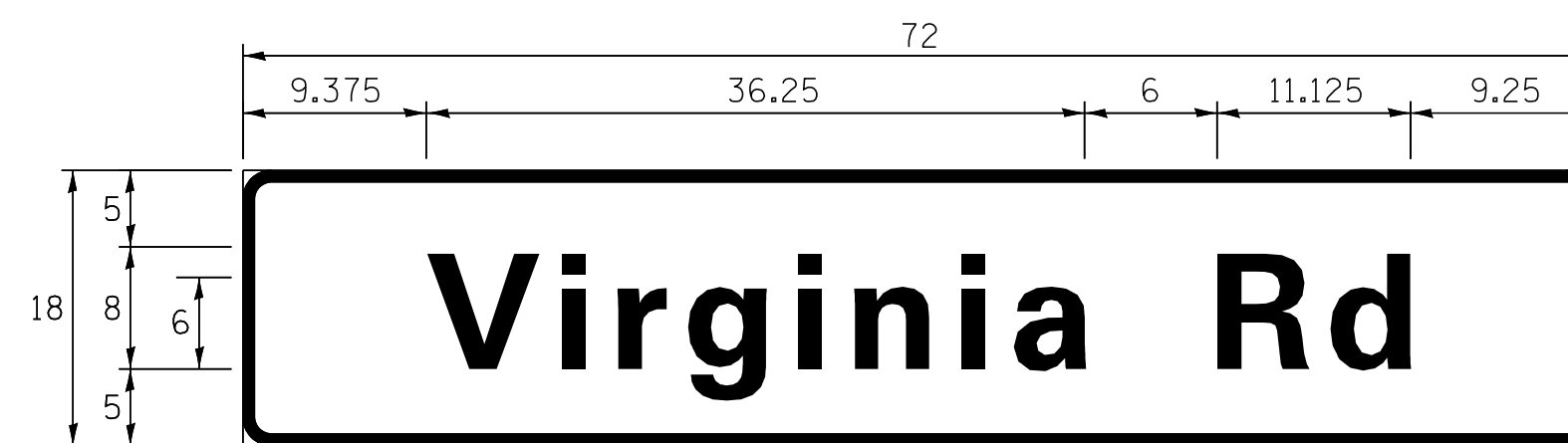
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	15.0	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20.0	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.0	1	ZZ	2

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	696
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	72
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	462
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	5
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	3
PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C	FOOT	862
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	1,367
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 5C	FOOT	2,802
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 7C	FOOT	267
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	1,063
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	139
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO.6 1C	FOOT	888
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	25
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE I	FOOT	236
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	5
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO.20 3/C	FOOT	308
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION - GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
CABLE, SPECIAL	FOOT	859

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/9/2018 8:44:56 AM
 FILE NAME: I:\C:\Users\Baker\OneDrive\Documents\170562-Sht-TS-Cable-Rte14-Virginia.dgn



USER NAME = 560KAR	DESIGNED -	REVISED -
PLOT SCALE = 20.0000" / in.	DRAWN -	REVISED -
PLOT DATE = 11/9/2018	CHECKED -	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-TS-Cable-Rte14-Virginia.dgn

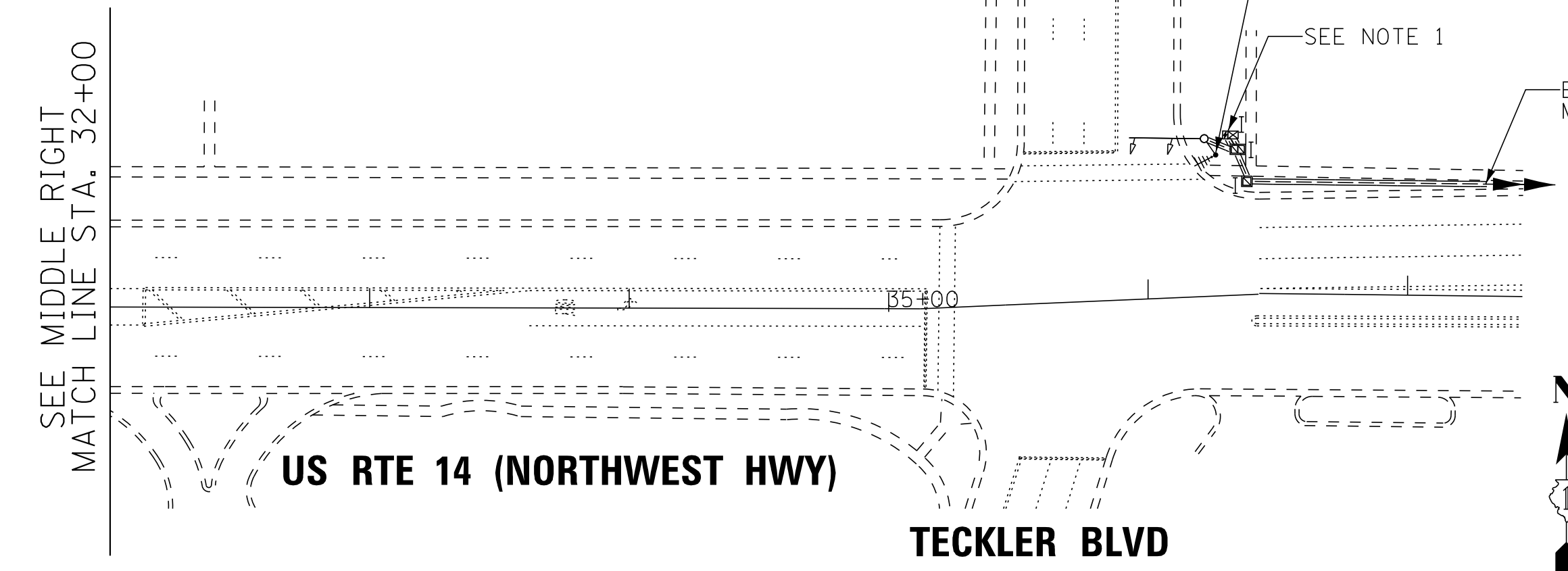
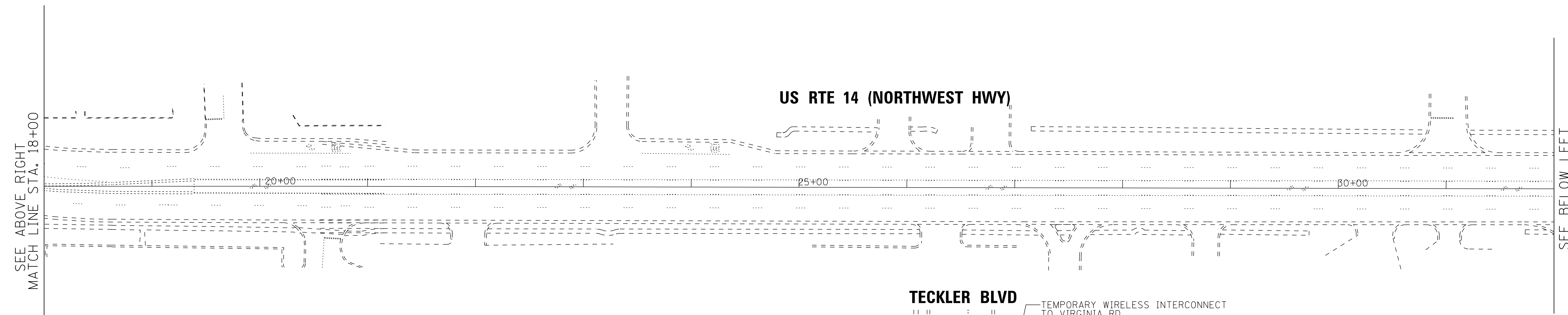
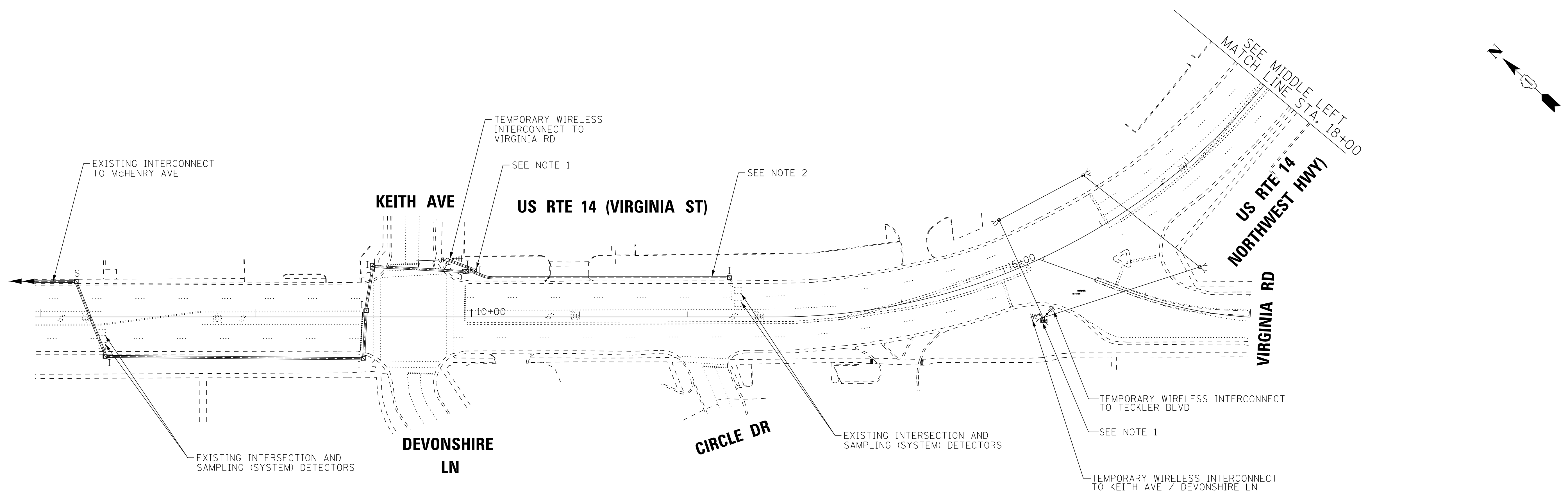
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
 AND SCHEDULE OF QUANTITIES
 US RTE 14 (NORTHWEST HWY) AND VIRGINIA RD

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 39
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK31554				

TS 7265
 ECON 23

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:04 PM
 FILE NAME: I:\CADD\170562-RT 14 at Virginia\CADD\170562-Sht-Temp-Interconnect.dgn



TEMPORARY INTERCONNECT NOTES

1. CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS LOCATED AT THE INTERSECTIONS OF US RTE 14 WITH KEITH AVE / DEVONSHIRE LN, VIRGINIA RD, AND TECKLER BLVD. DURING CONSTRUCTION ALL WORK ASSOCIATED WITH THE ANTENNA, CABLE, AND ITEMS IN THE CABINETS SHALL BE INCLUDED IN THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION" PAY ITEM.
2. REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLES FROM THE EXISTING CONDUIT THAT WILL STILL BE IN USE DURING THE PROPOSED CONDITIONS (THAT WAS NOT ABANDONED) BETWEEN THE TRAFFIC SIGNAL CABINETS AT KEITH AVE/DEVONSHIRE LN AND TECKLER BLVD.



USER NAME = 560KAR	DESIGNED - RWL	REVISED -
DRAWN - UKB	CHECKED - RWL	REVISED -
PLOT SCALE = 50.0000' / in.	DATE - 10-04-18	FILE - 170562-Sht-Temp-Interconnect.dgn
PLOT DATE = 11/8/2018		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

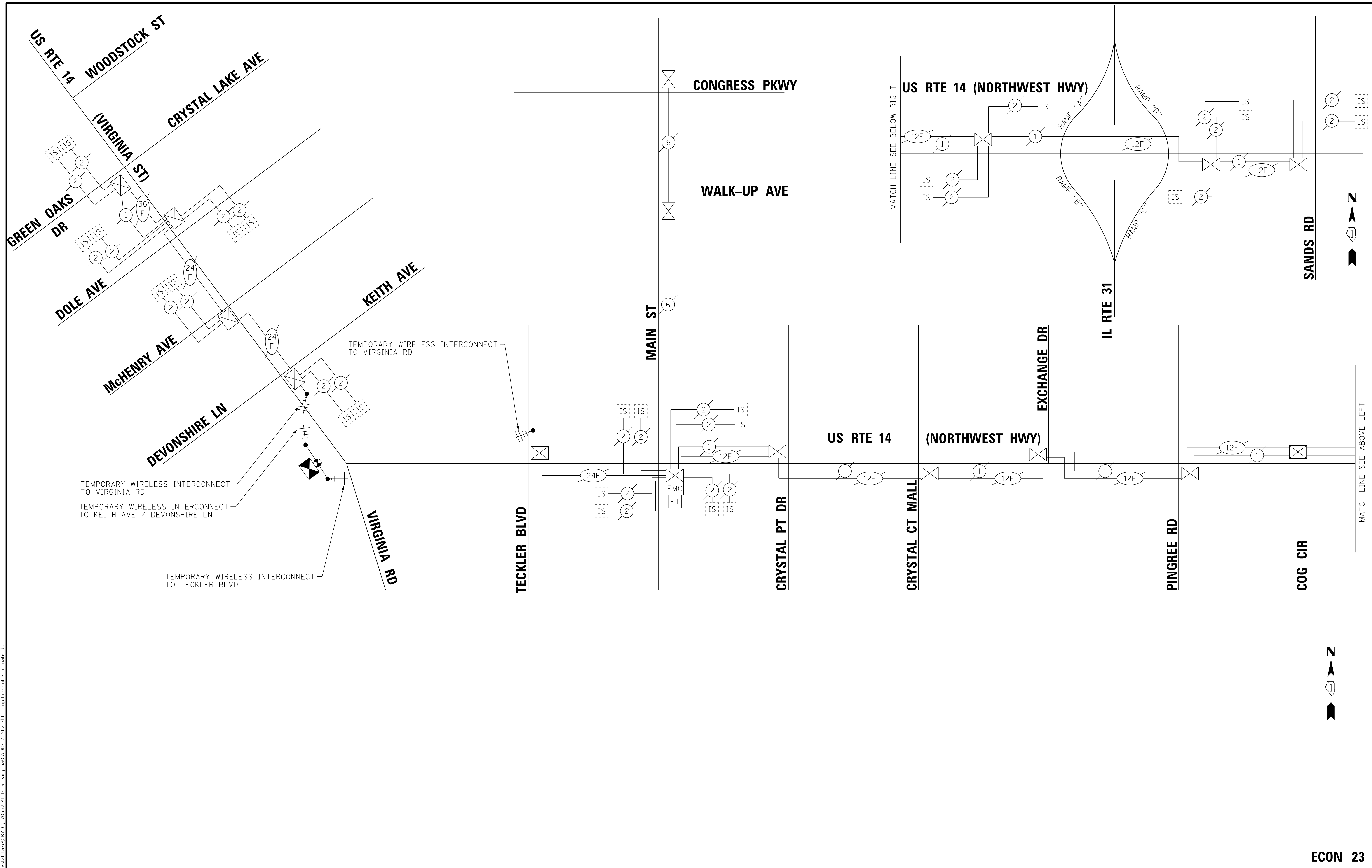
TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 1)
 US RTE 14 (NORTHWEST HWY)
 KEITH AVE / DEVONSHIRE LN TO TECKLER BLVD

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 40
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK31554				

ECON 23

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:05 PM
 FILE NAME: I:\Crystal Lake\CRYSTAL LAKES\CRYSTAL LAKES\170562-Sht-Temp-Interconnect-Schematic.dgn
 ... \plot\drv\pdf-BW_Default.plt
 ... \CADD\Projects\170562-B&W.TBI
 I:\Crystal Lake\CRYSTAL LAKES\170562-Rt 14 of Virginia\CADD\170562-Sht-Temp-Interconnect-Schematic.dgn



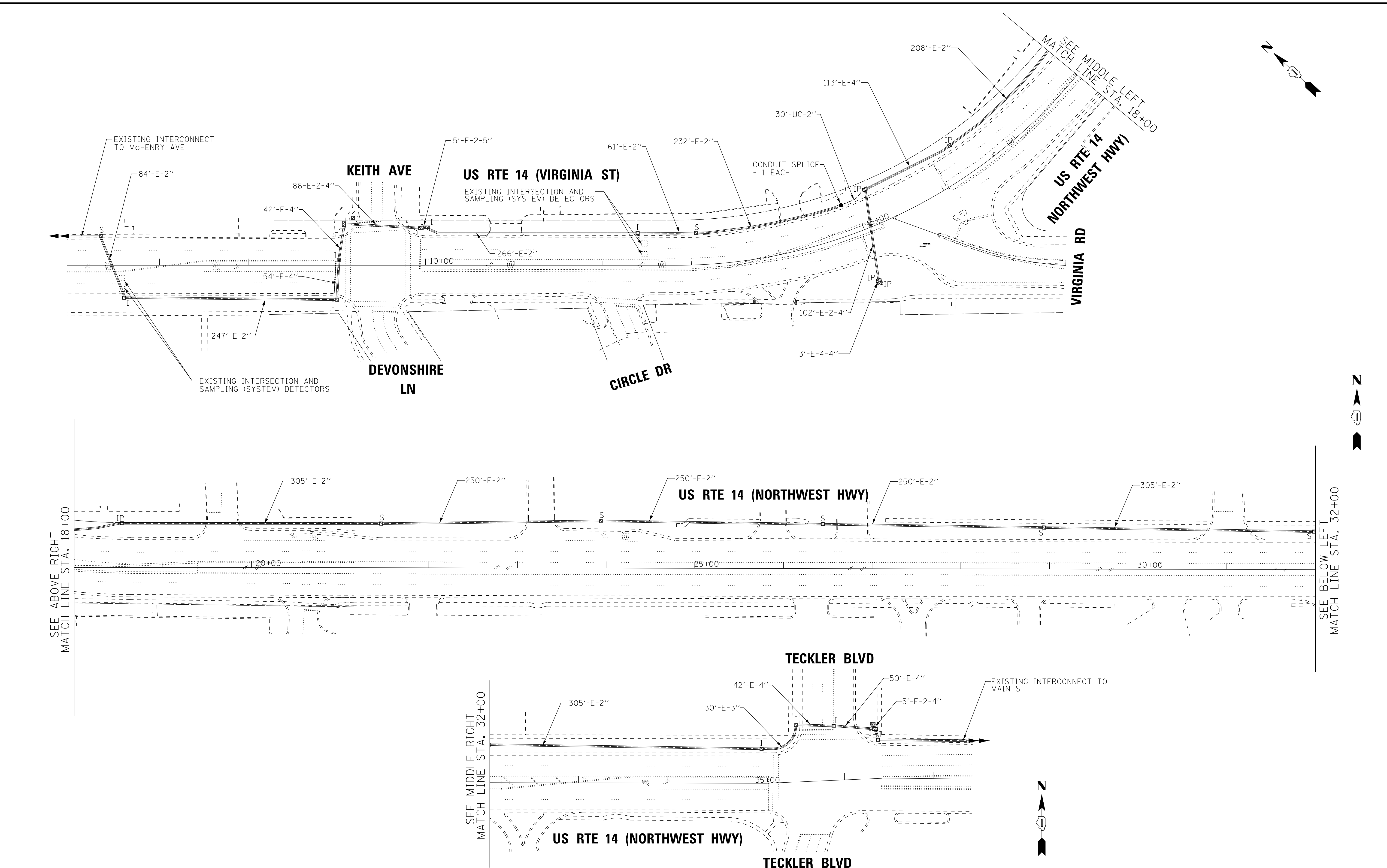
USER NAME = 560KAR	DESIGNED - RWL	REVISED -
DRAWN - UKB	CHECKED - RWL	REVISED -
PLOT SCALE = 50.0000' / in.	DATE - 10-04-18	FILE - 170562-Sht-Temp-Interconnect-Schematic.dgn
PLOT DATE = 11/8/2018		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES			
US RTE 14 (NORTHWEST HWY)			
WOODSTOCK ST TO SANDS ROAD			
SCALE: NO SCALE	SHEET	OF SHEETS	STA. TO STA.

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 41
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:06 PM
 FILE NAME: I:\CADD\Projects\170562-RT 14 of Virginia\CADD\170562-Sht-PR-Interconnect.dgn
 FILE NAME: I:\CADD\Projects\170562-RT 14 of Virginia\CADD\170562-Sht-PR-Interconnect.dgn



USER NAME = 560KAR	DESIGNED - RWL	REVISED -
DRAWN - UKB	CHECKED - RWL	REVISED -
PLOT SCALE = 50.0000' / in.	DATE - 10-04-18	FILE - 170562-Sht-PR-Interconnect.dgn
PLOT DATE = 11/8/2018		

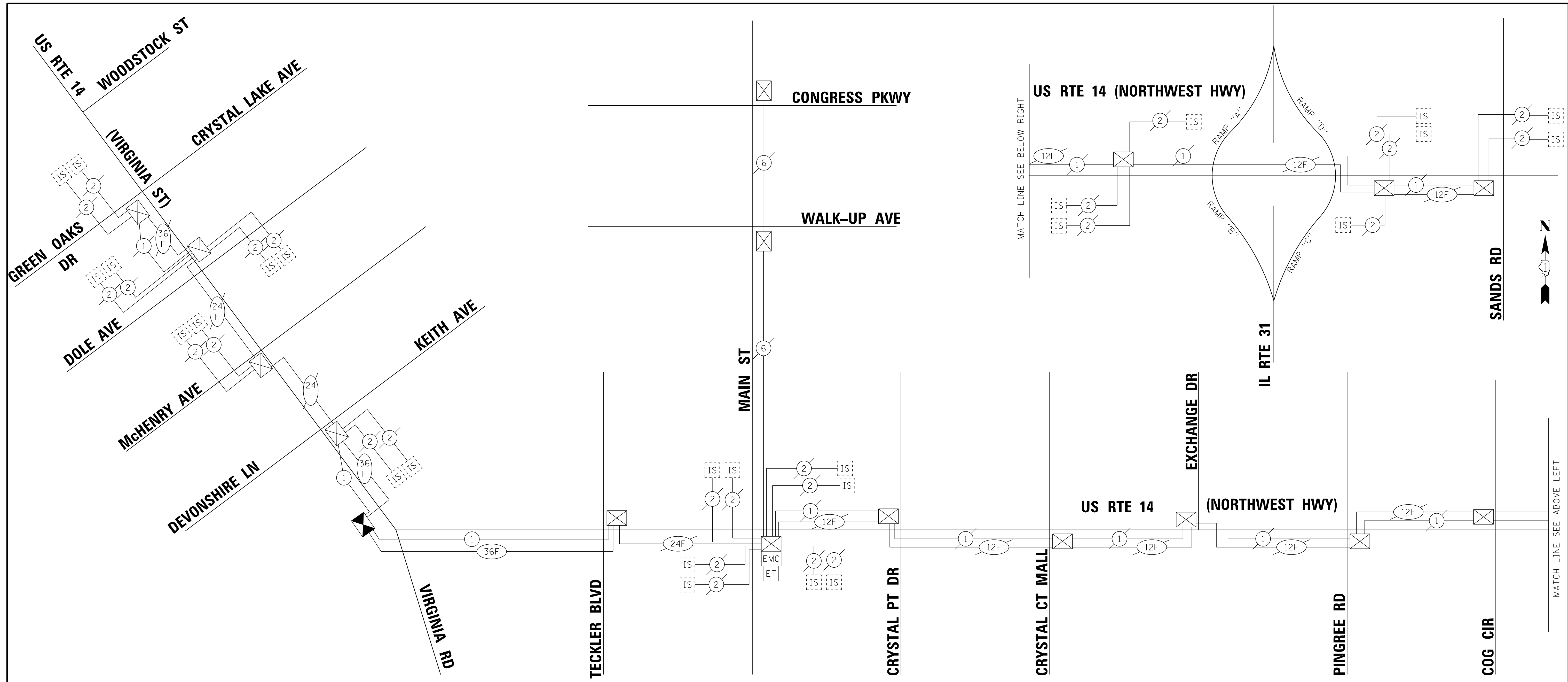
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 1)
 US RTE 14 (NORTHWEST HWY)
 KEITH AVE /DEVONSHIRE LN TO TECKLER BLVD

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 42
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK31554				

ECON 23

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:01 PM
 FILE NAME: I:\C:\Users\Baker\OneDrive\Documents\170562-Sht-PR-Interconnect-Schematic.dgn



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	30
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3147
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4964
* ROD AND CLEAN EXISTING CONDUIT	FOOT	2356
CONDUIT SPLICE	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3147
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

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



USER NAME = 560KAR	DESIGNED - RWL	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED - RWL	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-PR-Interconnect-Schematic.dgn

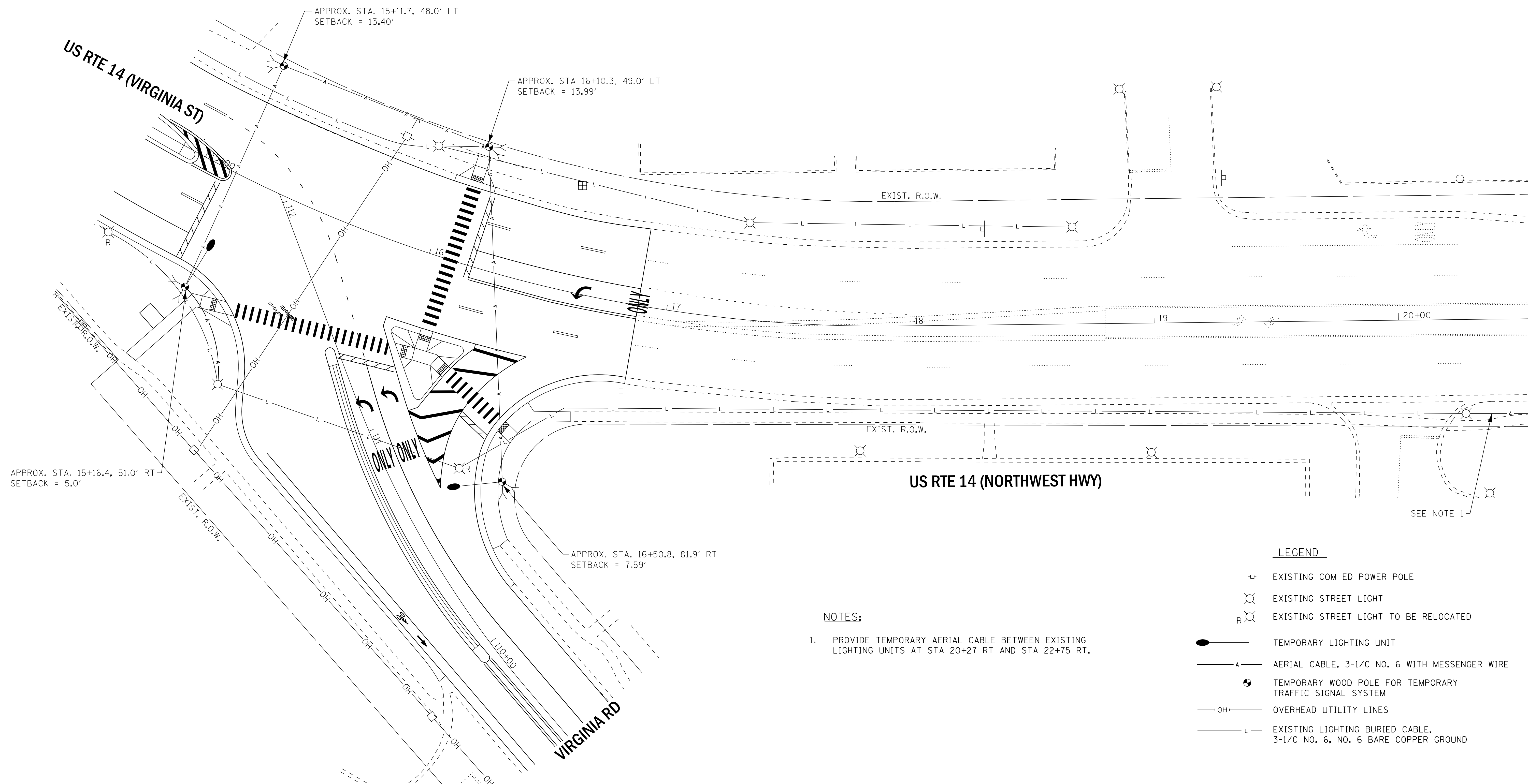
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
 US RTE 14 (NORTHWEST HWY)
 WOODSTOCK ST TO SANDS ROAD**

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 43
CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT QIK3(554)	

ECON 23



- NOTES:**
1. PROVIDE TEMPORARY AERIAL CABLE BETWEEN EXISTING LIGHTING UNITS AT STA 20+27 RT AND STA 22+75 RT.

- LEGEND**
- ⊕ EXISTING COM ED POWER POLE
 - ⊗ EXISTING STREET LIGHT
 - R ⊗ EXISTING STREET LIGHT TO BE RELOCATED
 - TEMPORARY LIGHTING UNIT
 - A— AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE
 - ⊙ TEMPORARY WOOD POLE FOR TEMPORARY TRAFFIC SIGNAL SYSTEM
 - OH— OVERHEAD UTILITY LINES
 - L— EXISTING LIGHTING BURIED CABLE, 3-1/C NO. 6, NO. 6 BARE COPPER GROUND

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:08 PM
 FILE NAME: I:\CADD\170562-Sht-SL-Temp-Rte14-Virginia.dgn

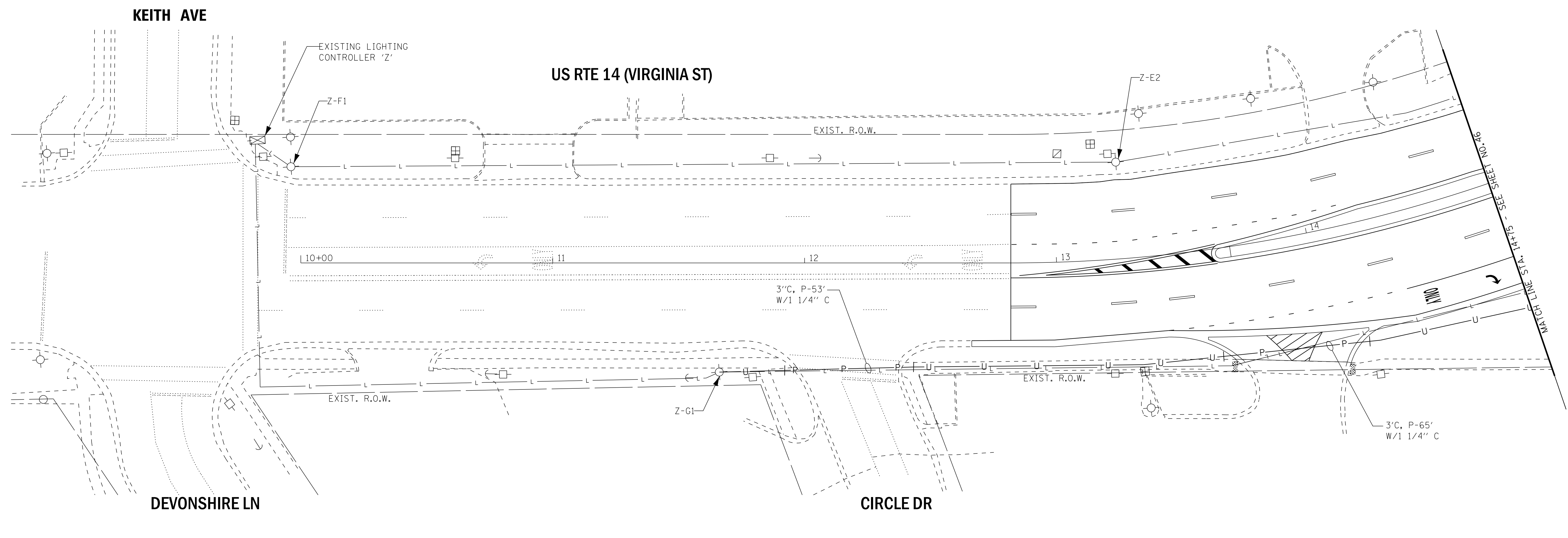
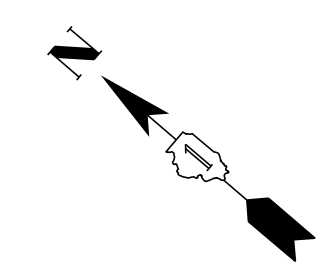


USER NAME = 560KAR	DESIGNED - MWH	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-SL-Temp-Rte14-Virginia.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TEMPORARY STREET LIGHTING PLAN US RTE 14 (NORTHWEST HWY) AND VIRGINIA ROAD			
SCALE: 1"=20'	SHEET	OF	SHEETS
STA.	TO	STA.	TO

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 44
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				



LEGEND

- ⊕ EXISTING COM ED POWER POLE
- U— 1 1/4" UNIT DUCT, 3*6, #6 GROUND
- 3" C, P-8' W/1 1/4" C —P— 3" RGS CONDUIT, PUSHED/BORED 8' LONG WITH 1 1/4" CONDUIT OR AS NOTED
- RELOCATED LIGHTING UNIT
- ⊗ EXISTING STREET LIGHT
- ⊗ R EXISTING STREET LIGHT TO BE RELOCATED
- ⊠ EXISTING LIGHTING CONTROLLER
- L— EXISTING LIGHTING BURIED CABLE, 3-1/C NO. 6, NO. 6 BARE COPPER GROUND

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:03 PM
 FILE NAME: I:\C:\Users\Baker\OneDrive\Documents\170562-Sht-SL-Rte14.dgn



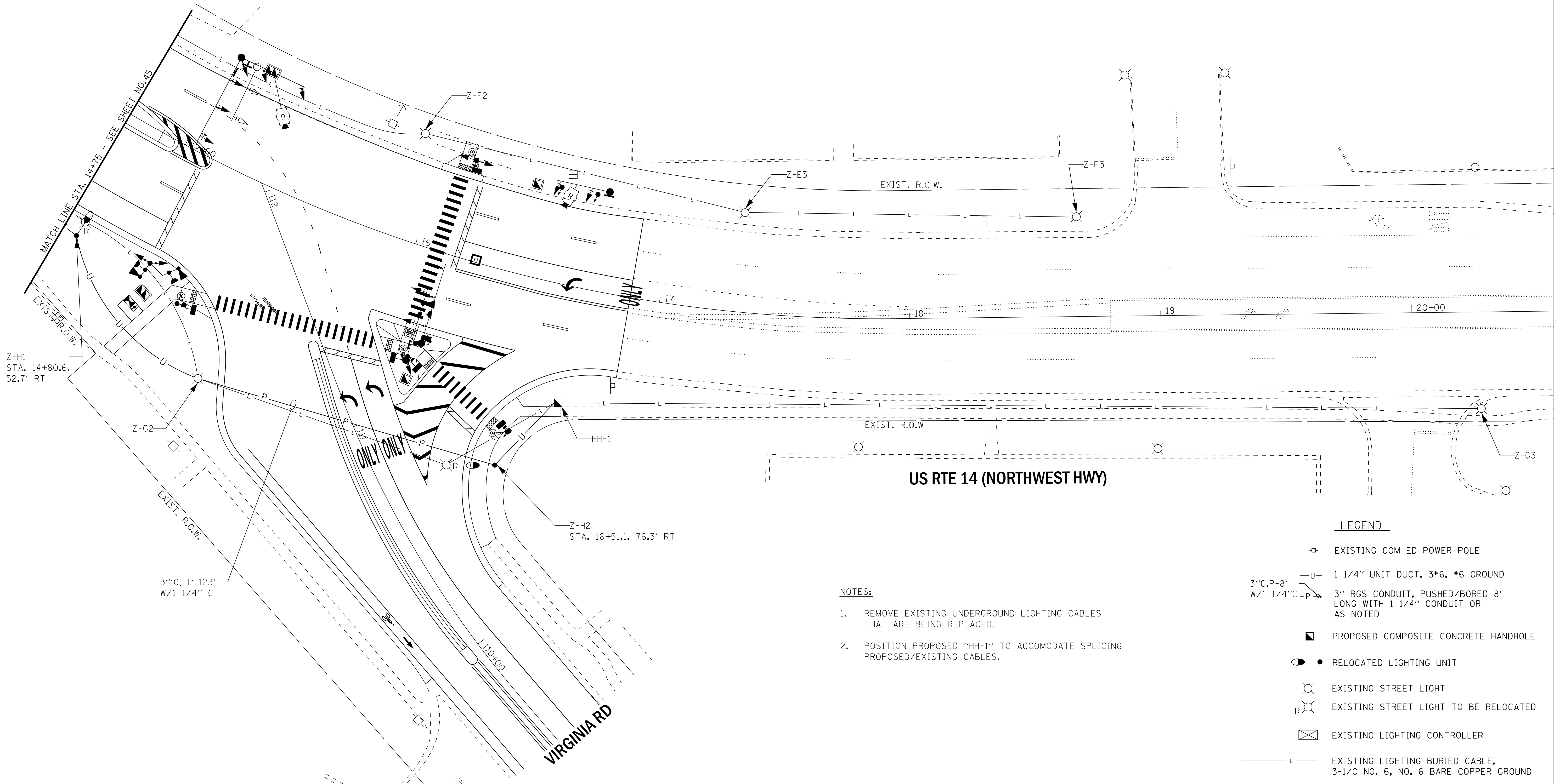
USER NAME = 560KAR	DESIGNED - MWH	REVISED -
	DRAWN - UKB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-SL-Rte14.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING PLAN
US RTE 14 (VIRGINIA ST) AND VIRGINIA ROAD**

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 45
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK31554				



NOTES:

1. REMOVE EXISTING UNDERGROUND LIGHTING CABLES THAT ARE BEING REPLACED.
2. POSITION PROPOSED "HH-1" TO ACCOMODATE SPLICING PROPOSED/EXISTING CABLES.

LEGEND

- ⊕ EXISTING COM ED POWER POLE
- U— 1 1/4" UNIT DUCT, 3#6, #6 GROUND
- 3" C, P-8' W/1 1/4" C —P— 3" RGS CONDUIT, PUSHED/BORED 8' LONG WITH 1 1/4" CONDUIT OR AS NOTED
- ▣ PROPOSED COMPOSITE CONCRETE HANDHOLE
- RELOCATED LIGHTING UNIT
- ⊙ EXISTING STREET LIGHT
- ⊙ R EXISTING STREET LIGHT TO BE RELOCATED
- ⊠ EXISTING LIGHTING CONTROLLER
- L— EXISTING LIGHTING BURIED CABLE, 3-1/C NO. 6, NO. 6 BARE COPPER GROUND

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:10 PM
 FILE NAME: I:\CADD\Projects\170562-Rt 14 at Virginia\170562-Rt 14 at Virginia\CADD\170562-Sht-SL-Rte14-Virginia.dgn
 FILE NAME: I:\CADD\Projects\170562-Rt 14 at Virginia\170562-Sht-SL-Rte14-Virginia.dgn



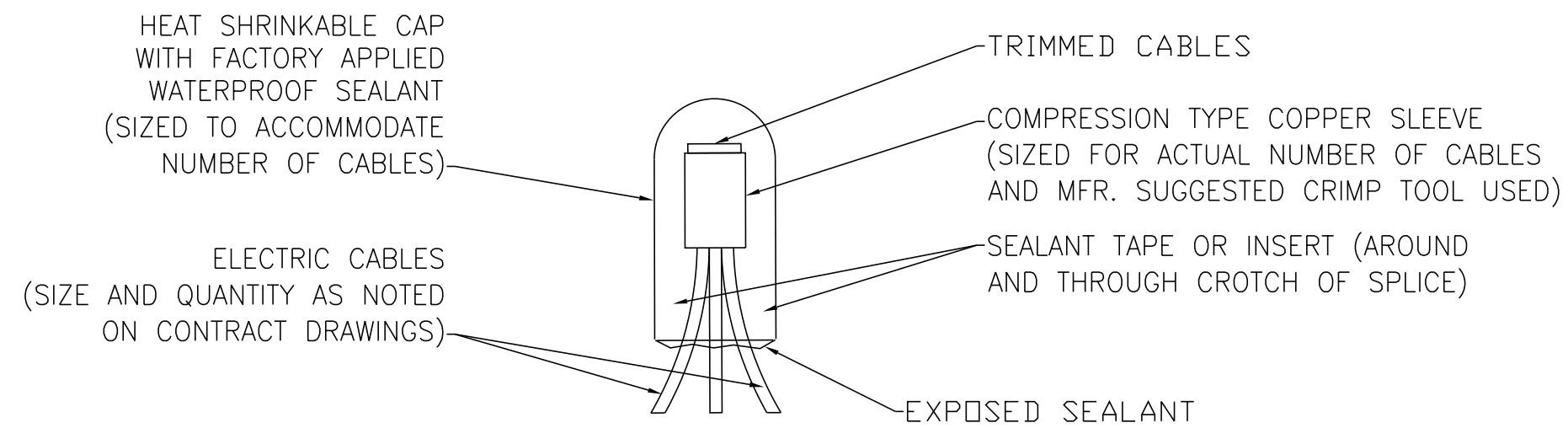
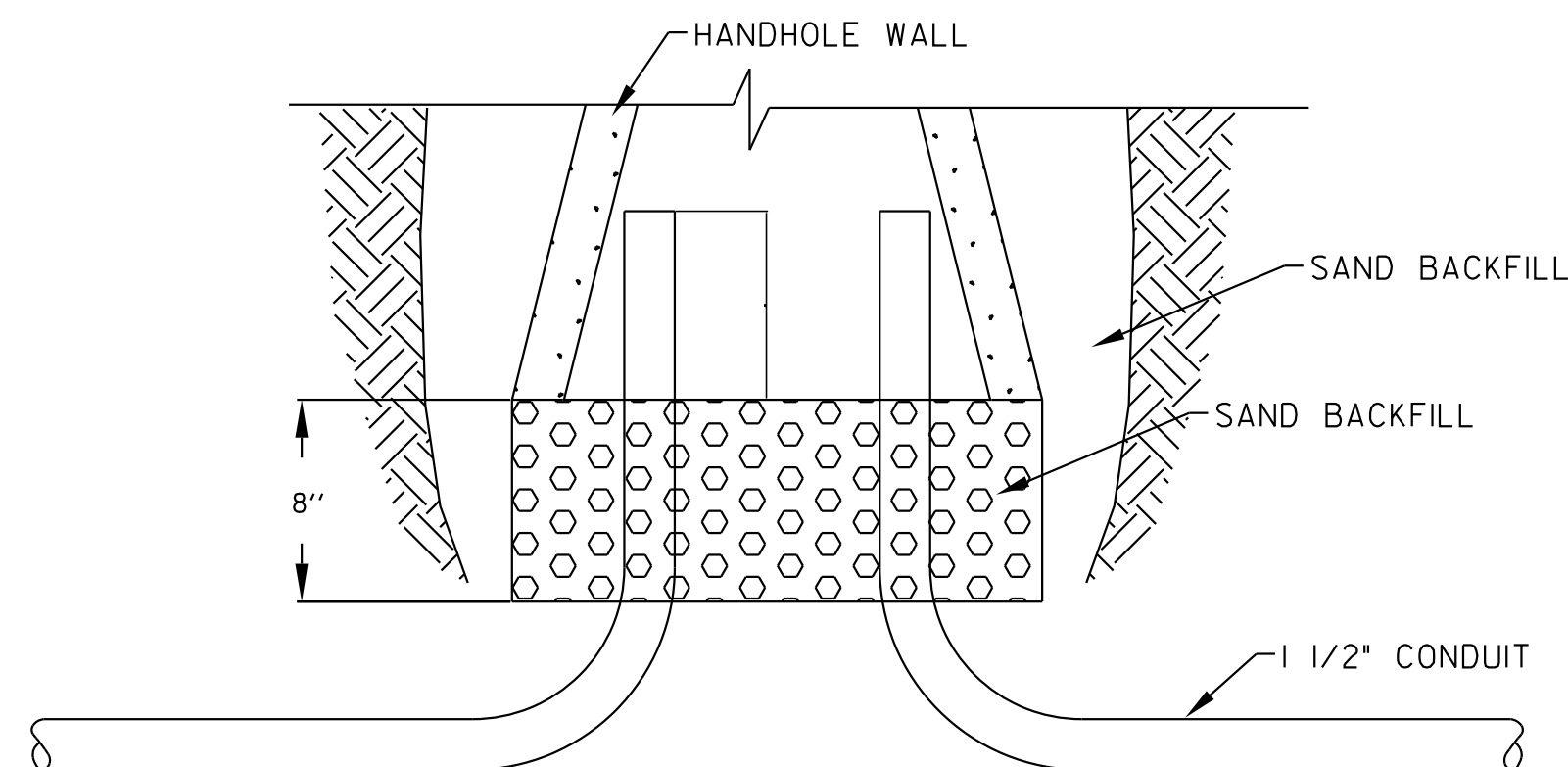
USER NAME = 560KAR	DESIGNED - MWH	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-SL-Rte14-Virginia.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STREET LIGHTING PLAN			
US RTE 14 (NORTHWEST HWY) AND VIRGINIA ROAD			
SCALE: 1"=20'	SHEET	OF SHEETS	STA. TO STA.

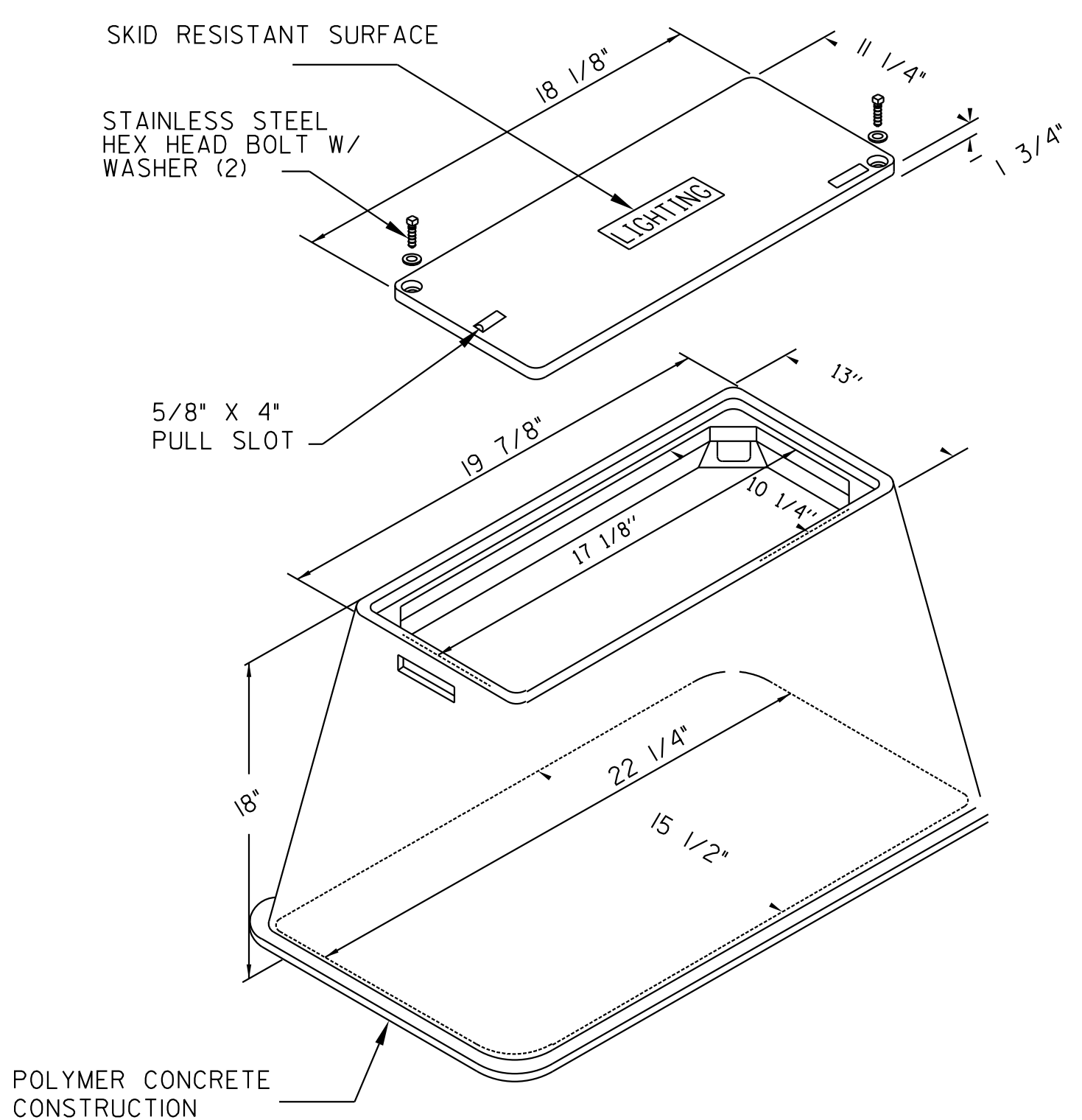
F.A.P./F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305 0121	17-00125-00-CH	MCHENRY	70	46
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06PM
 FILE NAME: \\g:\p\wood\com\projects\Crystal Lake\CRYL\170562-Rt-14-At-Virginia\CADD\170562-Sht-SL-Detail.dgn
 FILE PATH: \\g:\p\wood\com\projects\Crystal Lake\CRYL\170562-Rt-14-At-Virginia\CADD\170562-Sht-SL-Detail.dgn
 FILE DATE: 11/28/2018 12:06PM



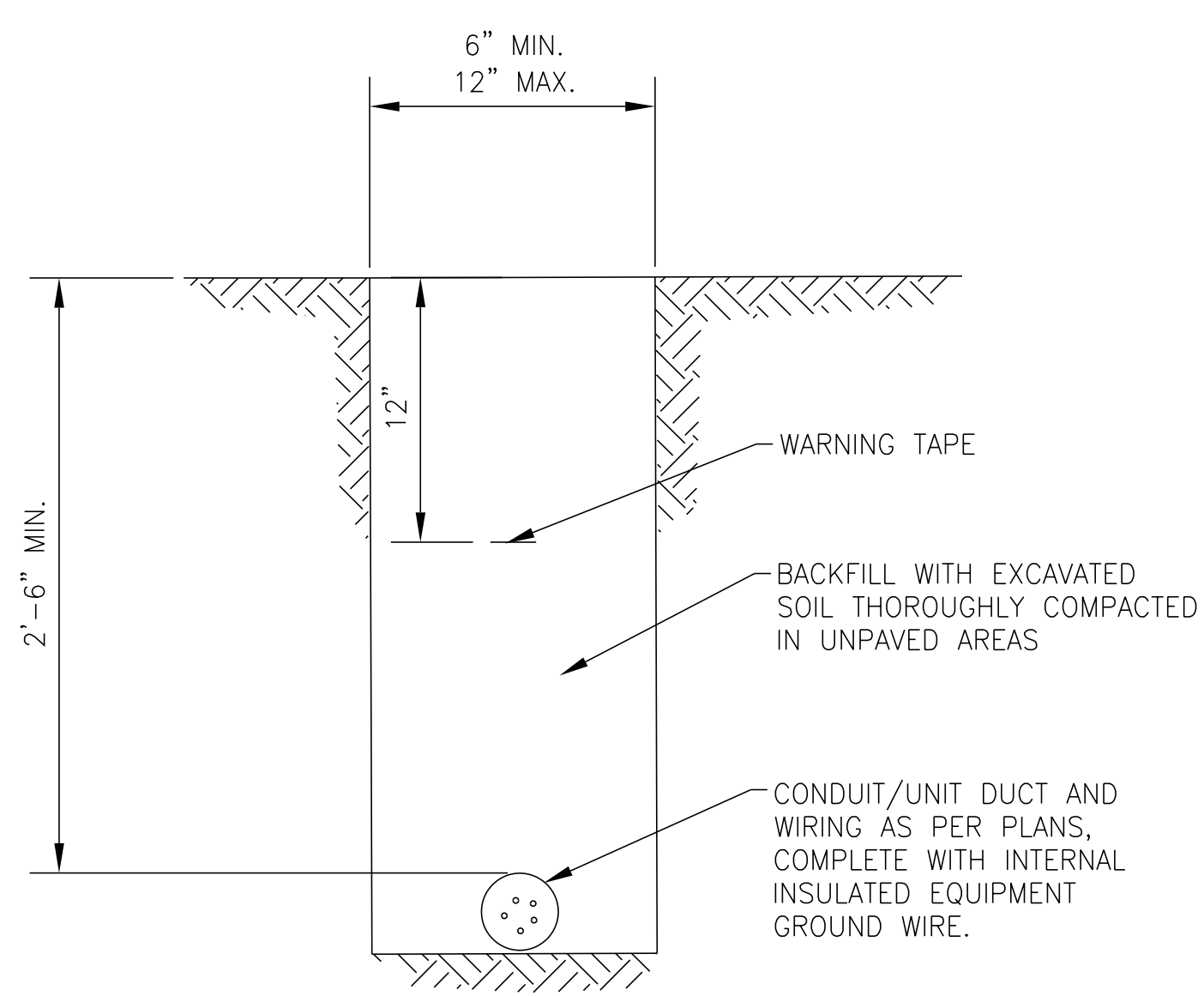
TYPICAL SPLICE DETAIL
 NO SCALE

NOTE:
 NUMBER OF CABLES IN SPLICE MAY VARY.



HANDHOLE, COMPOSITE
 NO SCALE

NOTE:
 1. MODIFY EXISTING CONDUIT TO SPLICE PROPOSED CABLES TO EXISTING LIGHTING CABLES.
 2. SEAL ALL CONDUITS IN HANDHOLE.



TYPICAL WIRING IN TRENCH DETAIL
 NO SCALE

NOTES:

- FIELD ADJUSTMENT OF LIGHTING UNIT LOCATIONS TO AVOID CONFLICTS MUST BE APPROVED BY THE VILLAGE AND/OR ENGINEER.
- CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING CONDUITS, DETECTORS, AND EQUIPMENT. IF ANY OF THE CONDUIT AND/OR EQUIPMENT IS DAMAGED THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE VILLAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- THE DISTURBED AREAS WHERE THE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE VILLAGE AND/OR ENGINEER. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
- EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND/OR BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING, GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE VILLAGE AND/OR ENGINEER PRIOR TO BACKFILLING.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF THE "UNDERGROUND RACEWAYS". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO BACKFILLING.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE VILLAGE AND/OR ENGINEER.
- ALL CONDUITS UNDER ROADWAYS AND DRIVEWAYS IN TRENCHES SHALL BE INSTALLED BEFORE PAVEMENT IS PLACED. CONDUIT LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LENGTH REQUIREMENTS IN THE FIELD.
- NO UNDERGROUND SPLICES OR SPLICES IN HANDHOLES WILL BE PERMITTED. ELECTRIC HANDHOLES SHALL BE USED FOR THE PURPOSE OF PULLING CABLES ONLY.
- LIGHTING UNIT SETBACK SHALL BE AS CALLED OUT ON PLANS.
- ALL ELECTRICAL DEVICES AND MATERIALS SHALL BE U/L LISTED WHERE APPLICABLE.

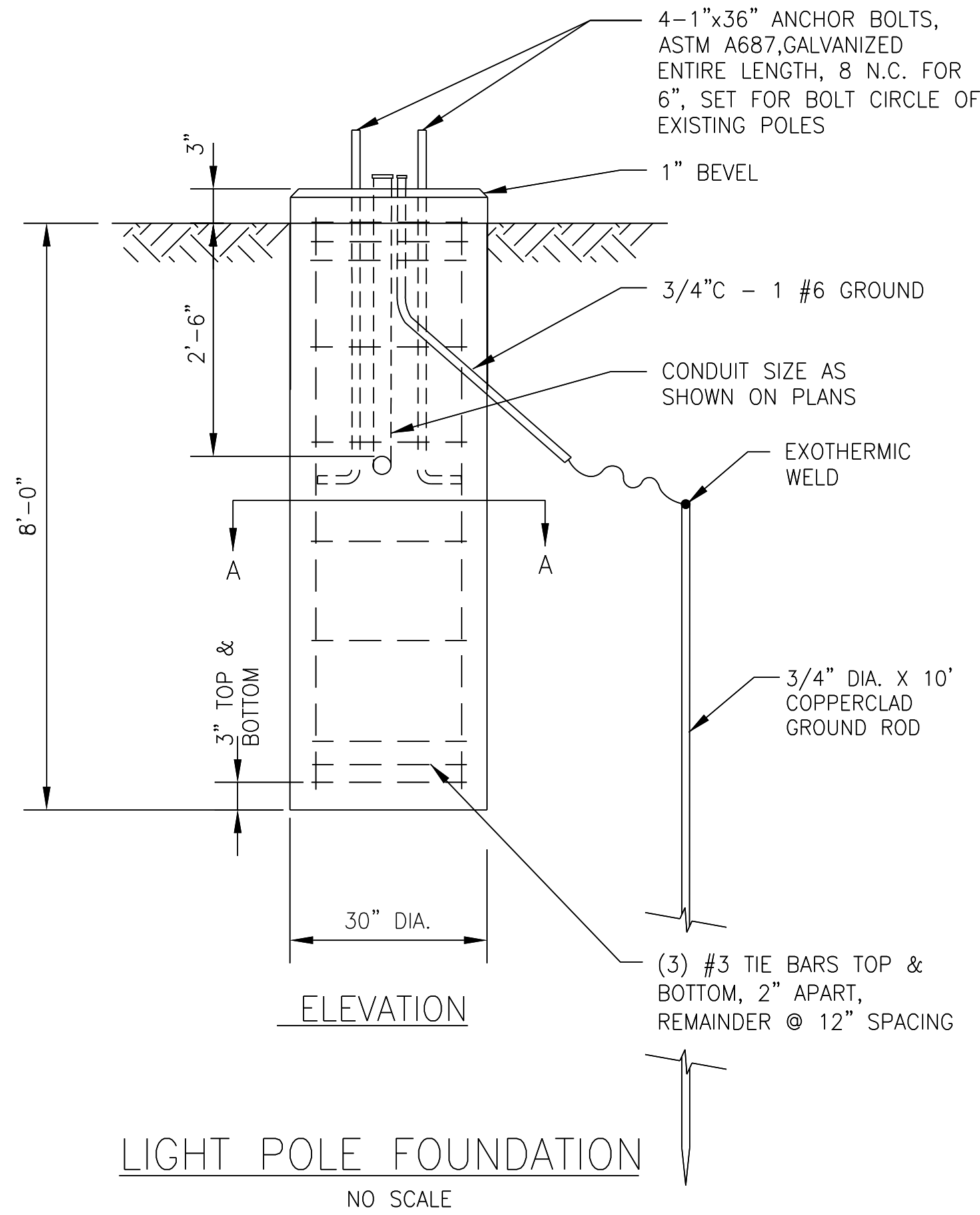
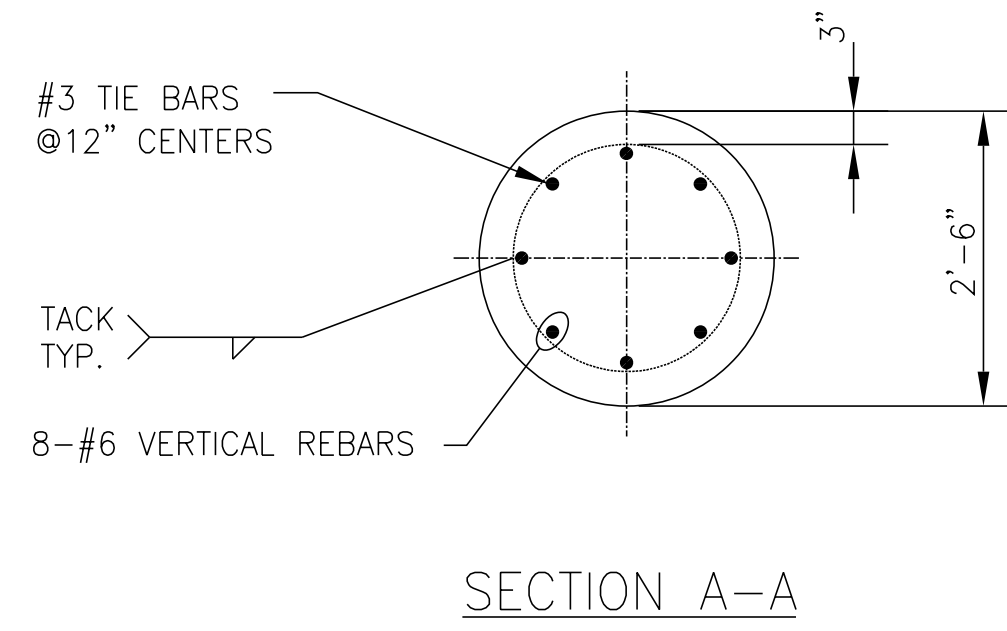
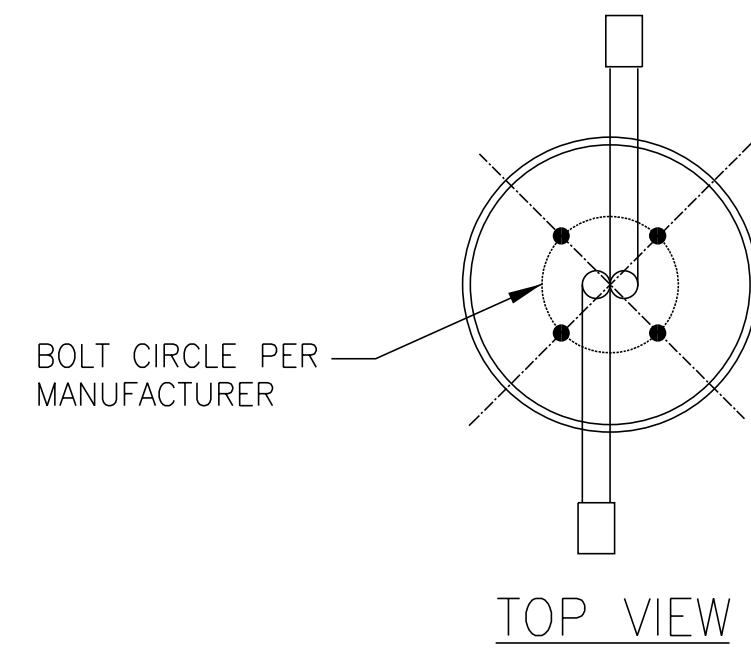


USER NAME = 560KAR	DESIGNED - MWH	REVISED -
DRAWN - UKB	CHECKED - DJS	REVISED -
PLOT SCALE = 20.0000' / in.	DATE - 10-04-18	FILE - 170562-Sht-SL-Detail.dgn
PLOT DATE = 11/8/2018		

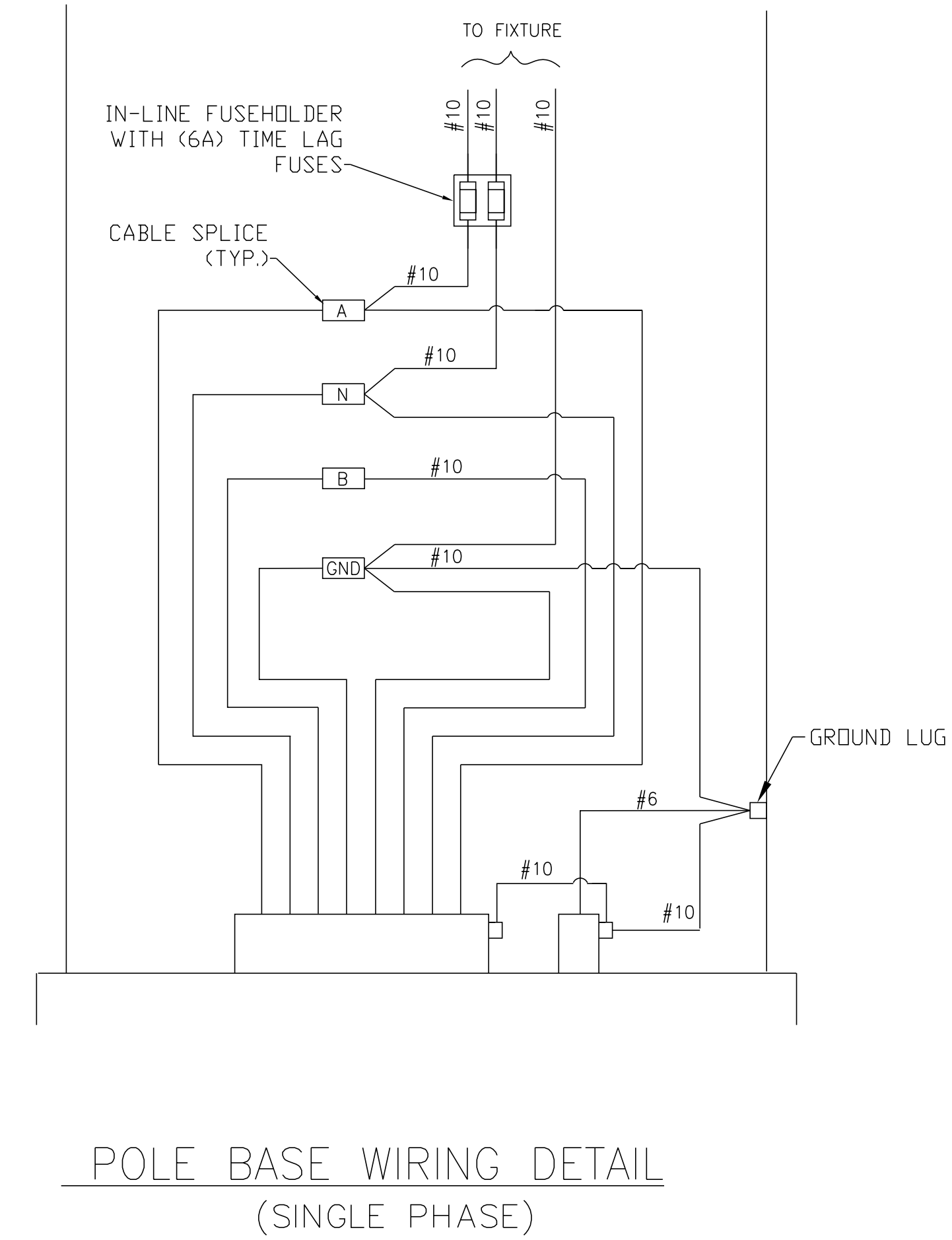
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS				
SCALE: NO SCALE	SHEET	OF	SHEETS	STA. TO STA.

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 47
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				



- NOTES:
1. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY CENTERED AND SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
 2. CONCRETE SHALL BE 3500 PSI AT 14 DAYS (CLASS SI).
 3. THE HOLE FOR THE FOUNDATION SHALL BE MADE 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.
 4. 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 1 INCH.
 5. CABLE TRENCHES AND FOUNDATIONS SHALL BE BACKFILLED AND COMPACTED, AND CONCRETE CURED ACCORDING TO APPLICABLE STANDARDS BEFORE LIGHT POLES MAY BE INSTALLED.
 6. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE ANCHOR ROD SHALL BE THREADED A MINIMUM OF 6 INCHES WITH A MINIMUM OF 3" OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION AND PROJECT A MINIMUM OF 2 3/4" ABOVE THE TOP OF THE FOUNDATION.
 7. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
 8. THE CONTRACTOR MAY USE A #3 SPIRAL AT 6" PITCH OR #3 TIES AT 12" O.C.



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06PM
 FILE NAME: \\p:\baxwood\com\projects\Crystal Lake\CRYLIC170562-RT_14.dwg
 FILE PATH: \\p:\baxwood\com\projects\Crystal Lake\CRYLIC170562-RT_14.dwg
 ... \plot\dr\pdf\bw_def\out.plt
 ... \CADD\Projects\170562-B&W.tbl
 ... \corp\boxwood\com\proj\obj\crystal\lake\CRYLIC170562-RT_14.dwg

	USER NAME = 560KAR	DESIGNED -	REVISED -
	PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 11/8/2018	CHECKED -	REVISED -
		DATE - 10-04-18	FILE - 170562-Sht-SL-Detail.dwg

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

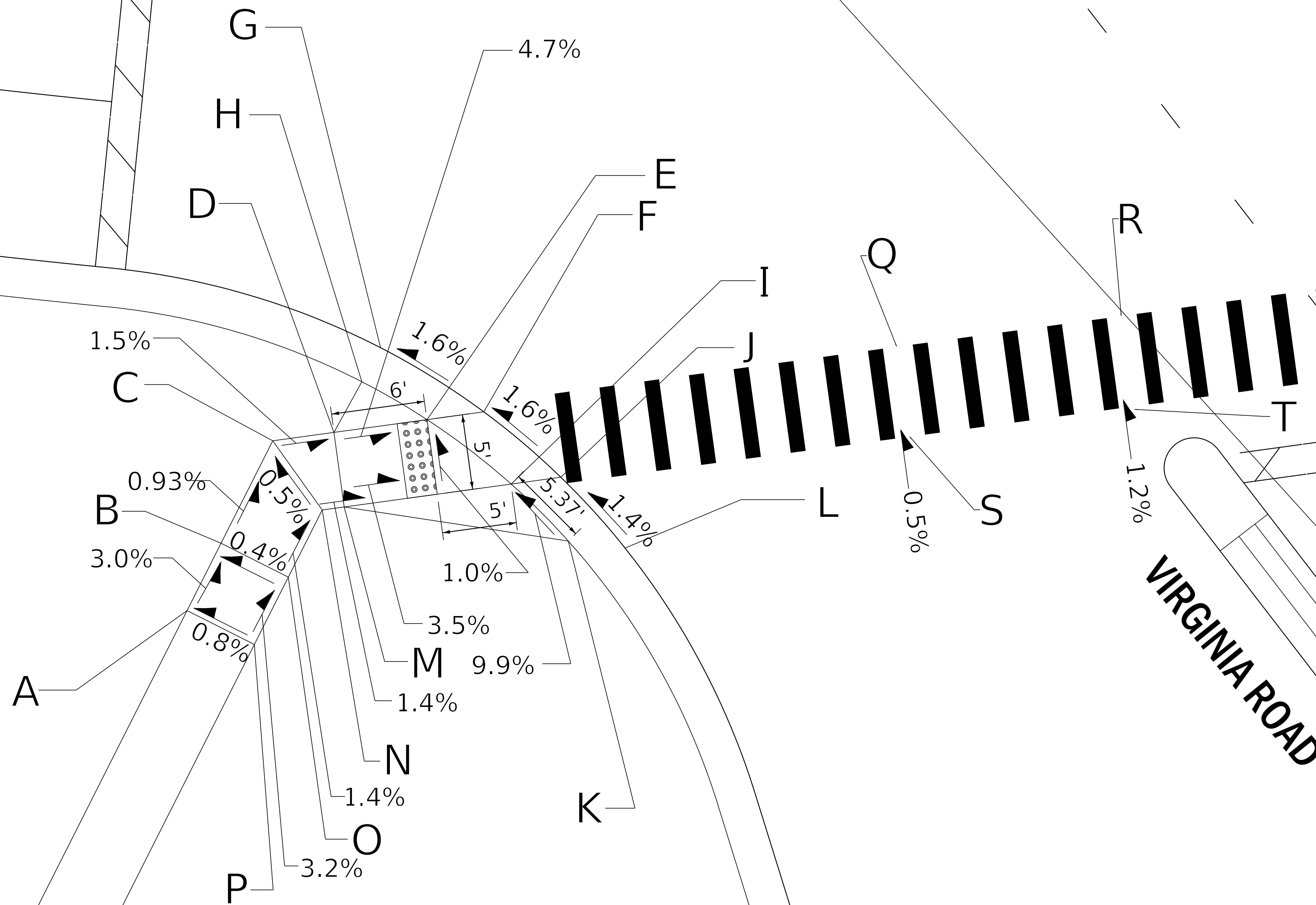
SCALE: NO SCALE		SHEET	OF	SHEETS	STA.	TO	STA.
-----------------	--	-------	----	--------	------	----	------

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 48
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

US RTE 14
(W VIRGINIA ST)

US RTE 14
(NORTHWEST HWY)

SOUTHWEST QUADRANT			
POINT	STA	OFFSET	ELEVATION
A	015+15.75	63.85 RT	895.67
B	015+17.43	59.20 RT	895.52
C	015+20.05	52.14 RT	895.45
D	015+23.73	51.27 RT	895.39
E	015+29.35	49.99 RT	895.10
F	015+32.79	49.25 RT	895.14
G	015+28.77	46.73 RT	895.06
H	015+25.21	47.78 RT	895.32
I	015+34.70	53.93 RT	895.07
J	015+37.70	53.31 RT	895.22
K	015+38.25	57.42 RT	895.60
L	015+41.15	57.02 RT	895.29
M	015+24.68	56.16 RT	895.46
N	015+22.49	56.67 RT	895.48
O	015+21.63	61.09 RT	895.55
P	015+19.92	65.72 RT	895.71
Q	015+58.00	43.87 RT	895.37
R	015+71.90	41.78 RT	895.49
S	015+58.91	49.90 RT	895.40
T	015+72.70	48.03 RT	895.56



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. = 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:13 PM
 FILE NAME: I:\C:\Users\Baxter\OneDrive\Illinois\Projects\170562-Sht-14 at Virginia\170562-Sht-14-W-Sw.dgn



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
PLOT SCALE = 5.0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-ADA-Rte14-W-Sw.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

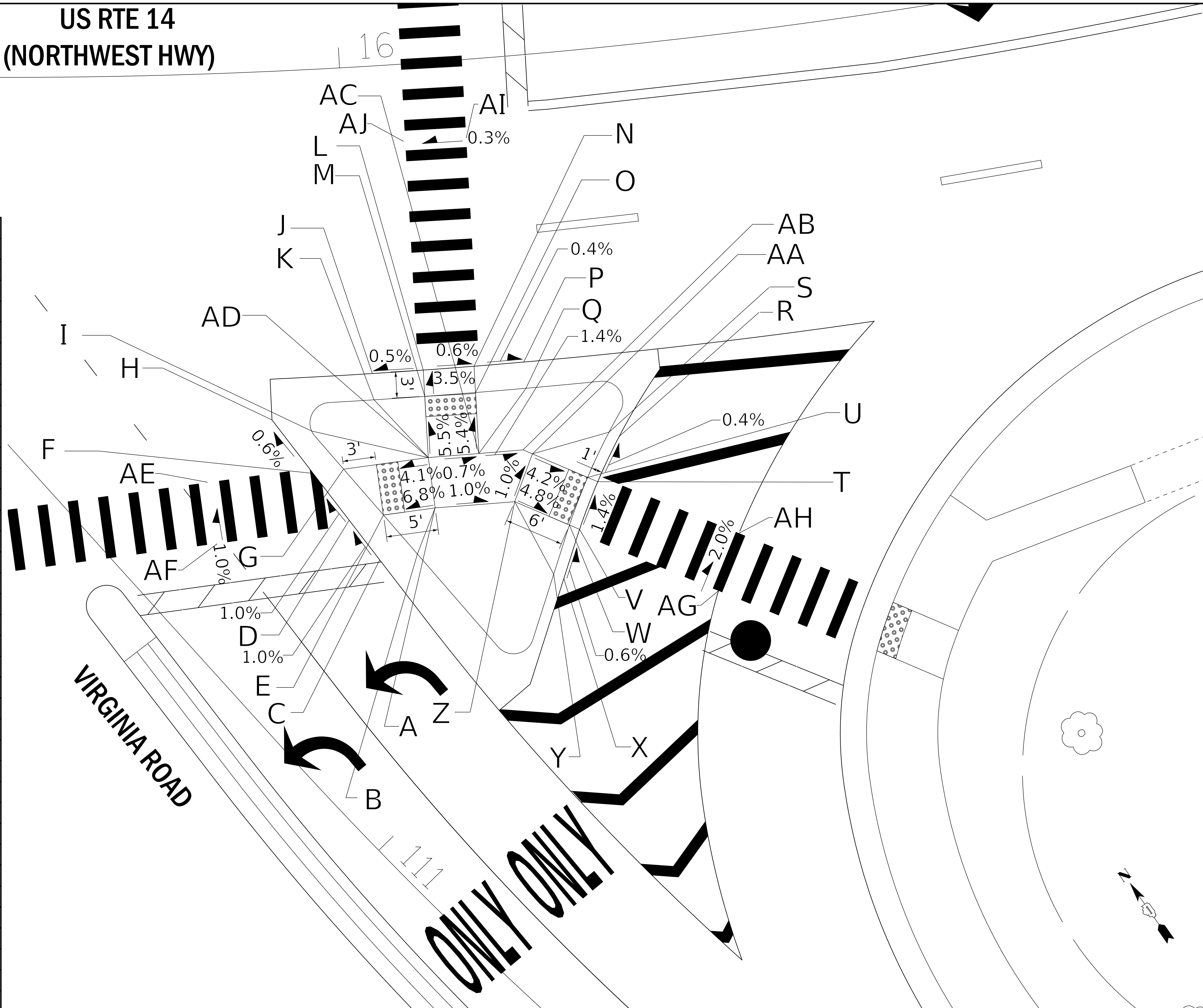
ADA SIDEWALK RAMP DETAIL
AT US RTE 14 (NORTHWEST HWY) AND VIRGINIA ROAD

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 49
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

US RTE 14
(NORTHWEST HWY)

Center Median			
POINT	STA	OFFSET	ELEVATION
A	016+06.45	43.73 RT	895.94
B	016+04.71	48.35 RT	896.06
C	016+01.39	48.91 RT	895.75
D	015+98.52	44.38 RT	895.69
E	016+01.69	44.11 RT	895.58
F	015+95.47	39.64 RT	895.64
G	015+98.29	39.38 RT	895.55
H	015+92.69	35.39 RT	895.61
I	015+95.52	35.48 RT	895.97
J	016+01.48	31.16 RT	895.63
K	016+01.48	32.75 RT	895.97
L	016+06.19	30.14 RT	895.65
M	016+06.67	32.72 RT	895.56
N	016+10.98	30.12 RT	895.62
O	016+10.93	32.70 RT	895.53
P	016+15.70	30.09 RT	895.60
Q	016+15.64	32.68 RT	895.95
R	016+23.84	38.22 RT	895.55
S	016+22.94	37.69 RT	895.98
T	016+21.48	42.45 RT	895.57
U	016+20.59	41.93 RT	895.56
V	016+19.43	46.94 RT	895.59
W	016+18.55	46.43 RT	895.58
X	016+17.62	51.62 RT	895.63
Y	016+16.74	51.11 RT	896.06
Z	016+13.75	43.69 RT	895.86
AA	016+15.73	39.15 RT	895.81
AB	016+14.9	38.68 RT	895.82
AC	016+10.83	38.70 RT	895.86
AD	016+06.14	38.74 RT	895.89
AE	015+85.71	40.09 RT	895.50
AF	015+86.42	46.17 RT	895.56
AG	016+31.37	54.31 RT	895.30
AH	016+33.81	48.92 RT	895.18
AI	016+12.21	1.39 LT	894.88
AJ	016+06.05	1.43 LT	894.86



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:06:14 PM
 FILE NAME: I:\Cyrus\Lake\CRX\170562-Rt 14 at Virginia\170562-Sht-ADA-Rte14-Island.dgn

BAXTER & WOODMAN
 Consulting Engineers

USER NAME = 560KAR	DESIGNED - LJK	REVISED -
PLOT SCALE = 5.0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	FILE - 170562-Sht-ADA-Rte14-Island.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

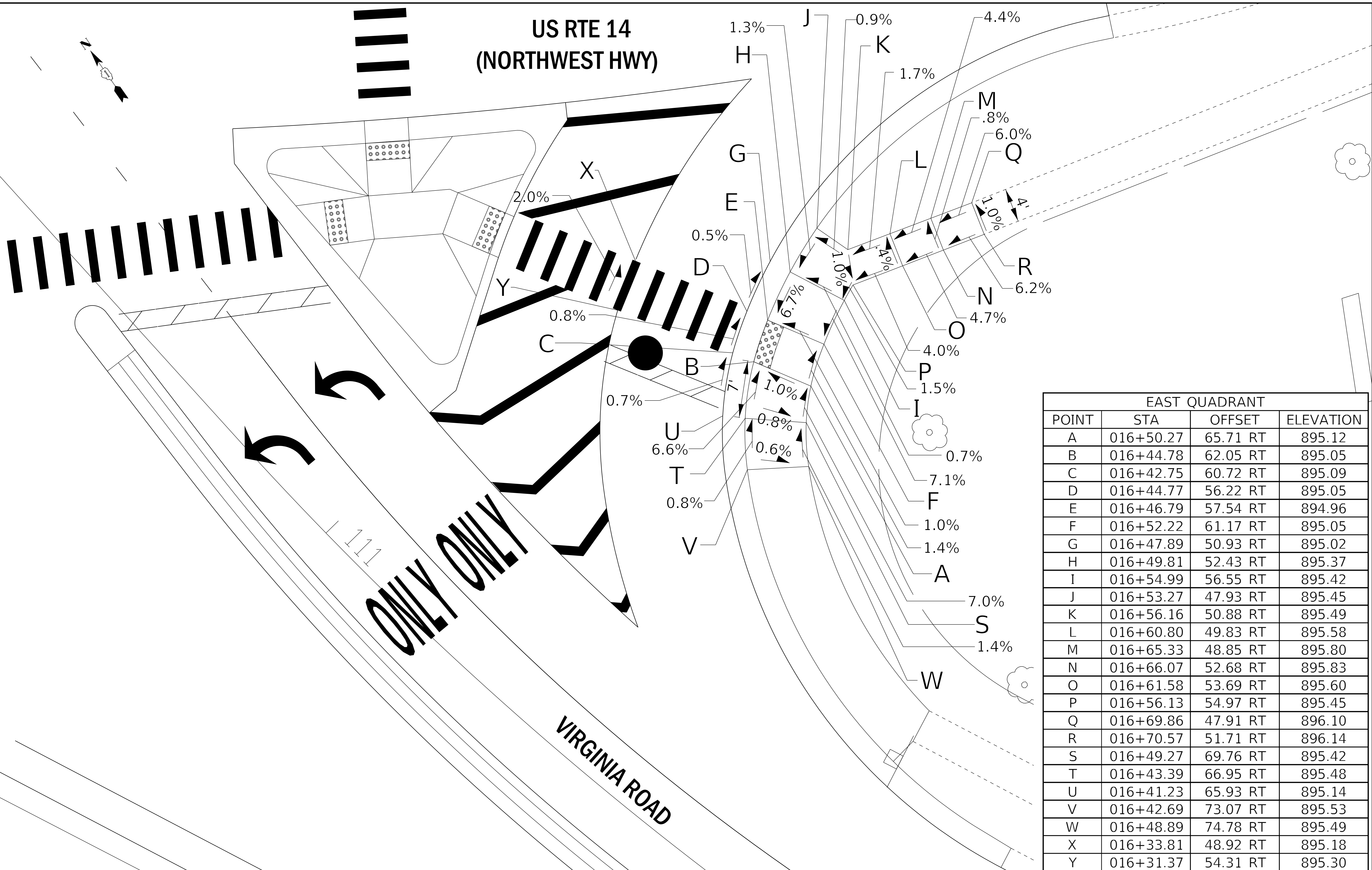
ADA SIDEWALK RAMP DETAIL
 AT US RTE 14 (NORTHWEST HWY) AND VIRGINIA ROAD

SCALE: 1"=5'

SHEET OF SHEETS STA. TO STA.

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 50
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:17 PM
 FILE NAME: I:\C:\Users\lakes\CRX\170562-Rt 14 at Virginia\CADD\170562-Sht-ADA-Rte14-E-SW.dgn



EAST QUADRANT			
POINT	STA	OFFSET	ELEVATION
A	016+50.27	65.71 RT	895.12
B	016+44.78	62.05 RT	895.05
C	016+42.75	60.72 RT	895.09
D	016+44.77	56.22 RT	895.05
E	016+46.79	57.54 RT	894.96
F	016+52.22	61.17 RT	895.05
G	016+47.89	50.93 RT	895.02
H	016+49.81	52.43 RT	895.37
I	016+54.99	56.55 RT	895.42
J	016+53.27	47.93 RT	895.45
K	016+56.16	50.88 RT	895.49
L	016+60.80	49.83 RT	895.58
M	016+65.33	48.85 RT	895.80
N	016+66.07	52.68 RT	895.83
O	016+61.58	53.69 RT	895.60
P	016+56.13	54.97 RT	895.45
Q	016+69.86	47.91 RT	896.10
R	016+70.57	51.71 RT	896.14
S	016+49.27	69.76 RT	895.42
T	016+43.39	66.95 RT	895.48
U	016+41.23	65.93 RT	895.14
V	016+42.69	73.07 RT	895.53
W	016+48.89	74.78 RT	895.49
X	016+33.81	48.92 RT	895.18
Y	016+31.37	54.31 RT	895.30



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
DRAWN - UKB	CHECKED - DJS	REVISED -
PLOT SCALE = 5.0000' / in.	DATE - 10-04-18	FILE - 170562-Sht-ADA-Rte14-E-SW.dgn
PLOT DATE = 11/8/2018		

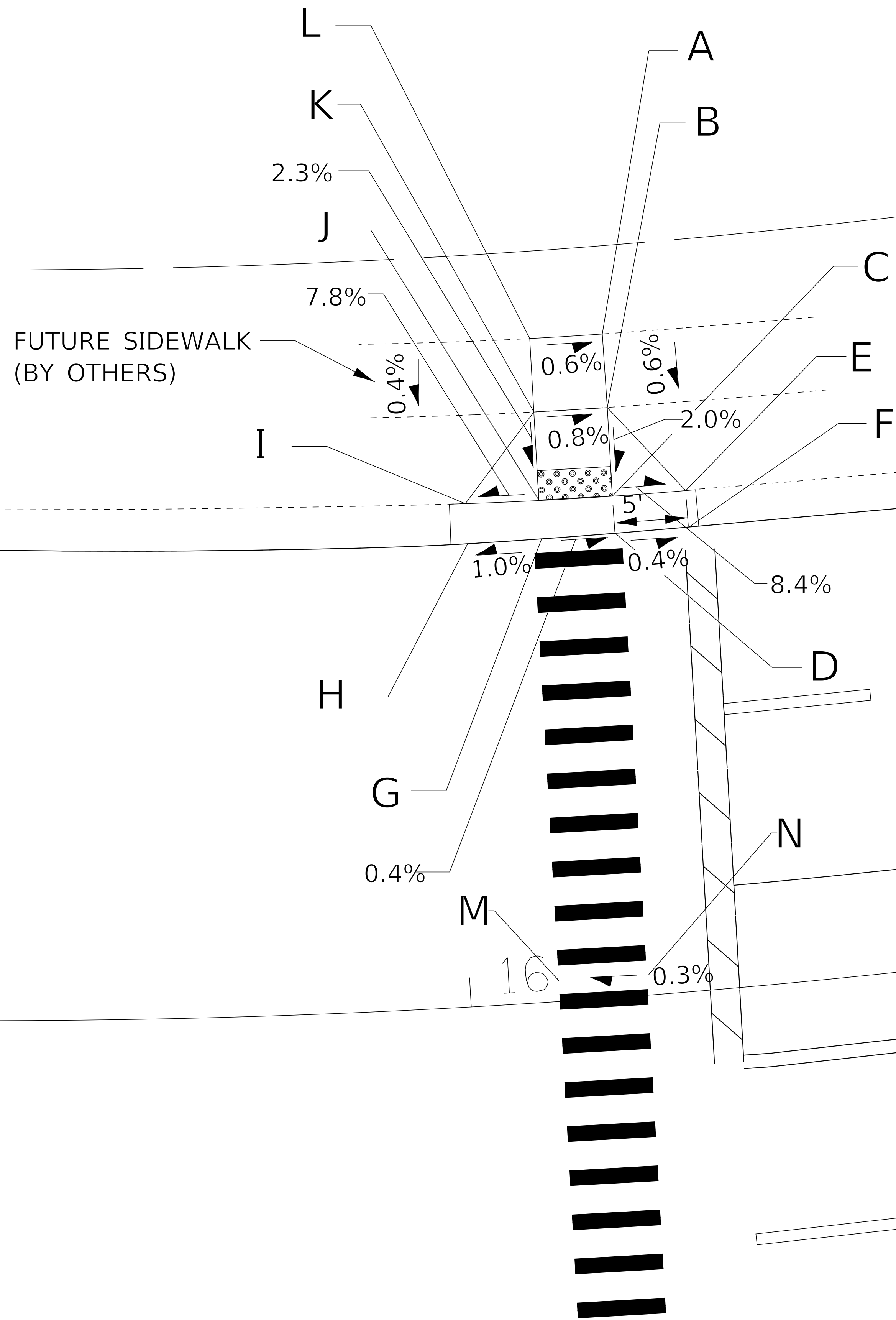
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**ADA SIDEWALK RAMP DETAIL SOUTHEAST CORNER
 AT US RTE 14 (NORTHWEST HWY) AND VIRGINIA ROAD**

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

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 51
ILLINOIS FED. AID PROJECT QIK3(554)				CONTRACT NO. 61F23

NORTHEAST QUADRANT			
POINT	STA	OFFSET	ELEVATION
A	016+12.43	45.02 LT	893.85
B	016+12.38	40.00 LT	893.82
C	016+12.25	33.98 LT	893.70
D	016+12.19	31.45 LT	893.80
E	016+17.55	33.95 LT	894.12
F	016+17.48	31.47 LT	893.78
G	016+06.90	31.44 LT	893.82
H	016+01.62	31.43 LT	893.77
I	016+01.63	34.16 LT	894.11
J	016+06.94	34.05 LT	893.72
K	016+07.01	40.08 LT	893.86
L	016+07.88	45.07 LT	893.88
M	016+06.05	1.43 LT	894.86
N	016+12.21	1.39 LT	894.88



**US RTE 14
(NORTHWEST HWY)**

ONLY

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:19 PM
 FILE NAME: I:\C:\Users\Baker\OneDrive\Illinois\Projects\170562-Sht-ADA-Rte14-NE-SW.dgn

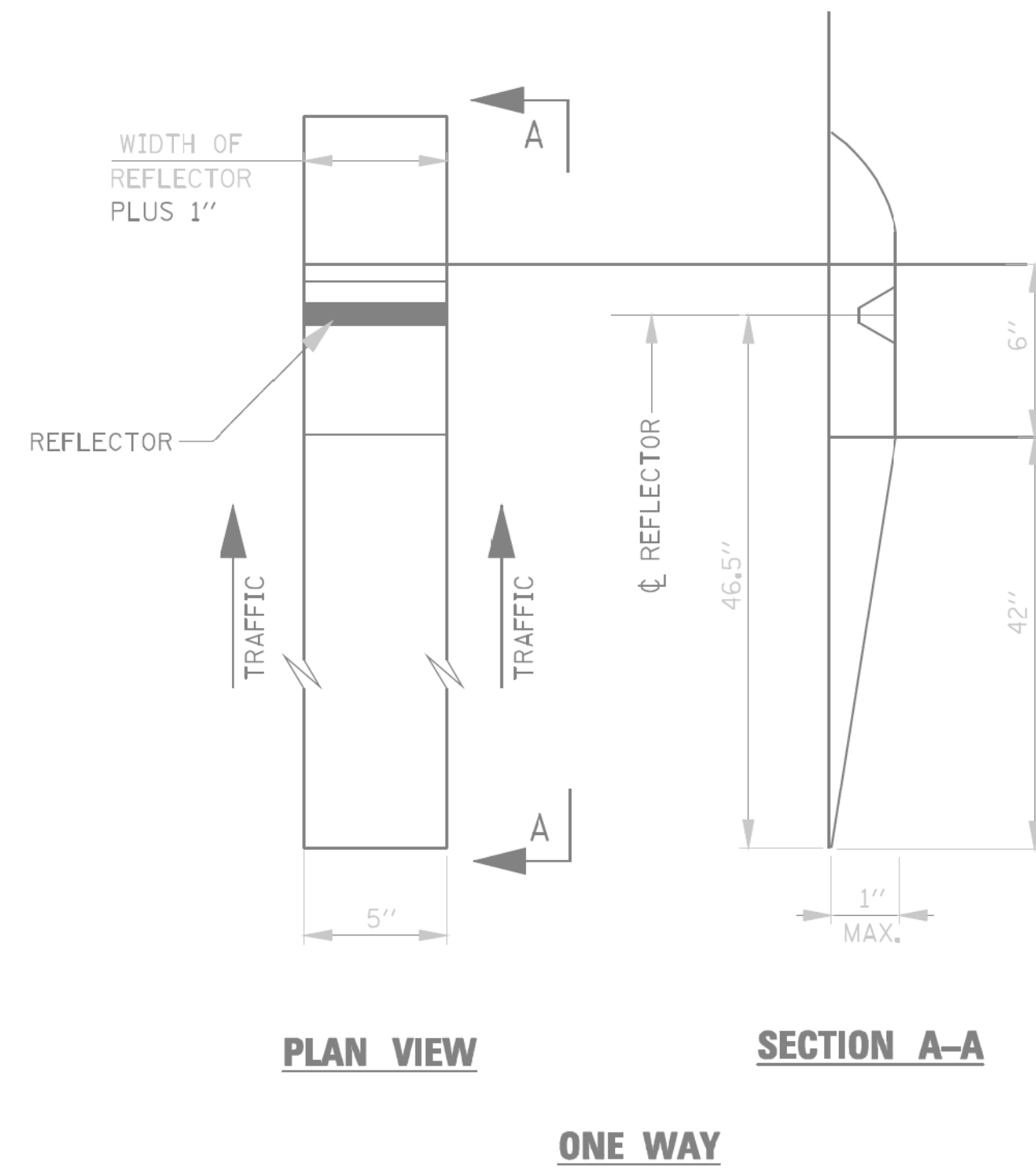
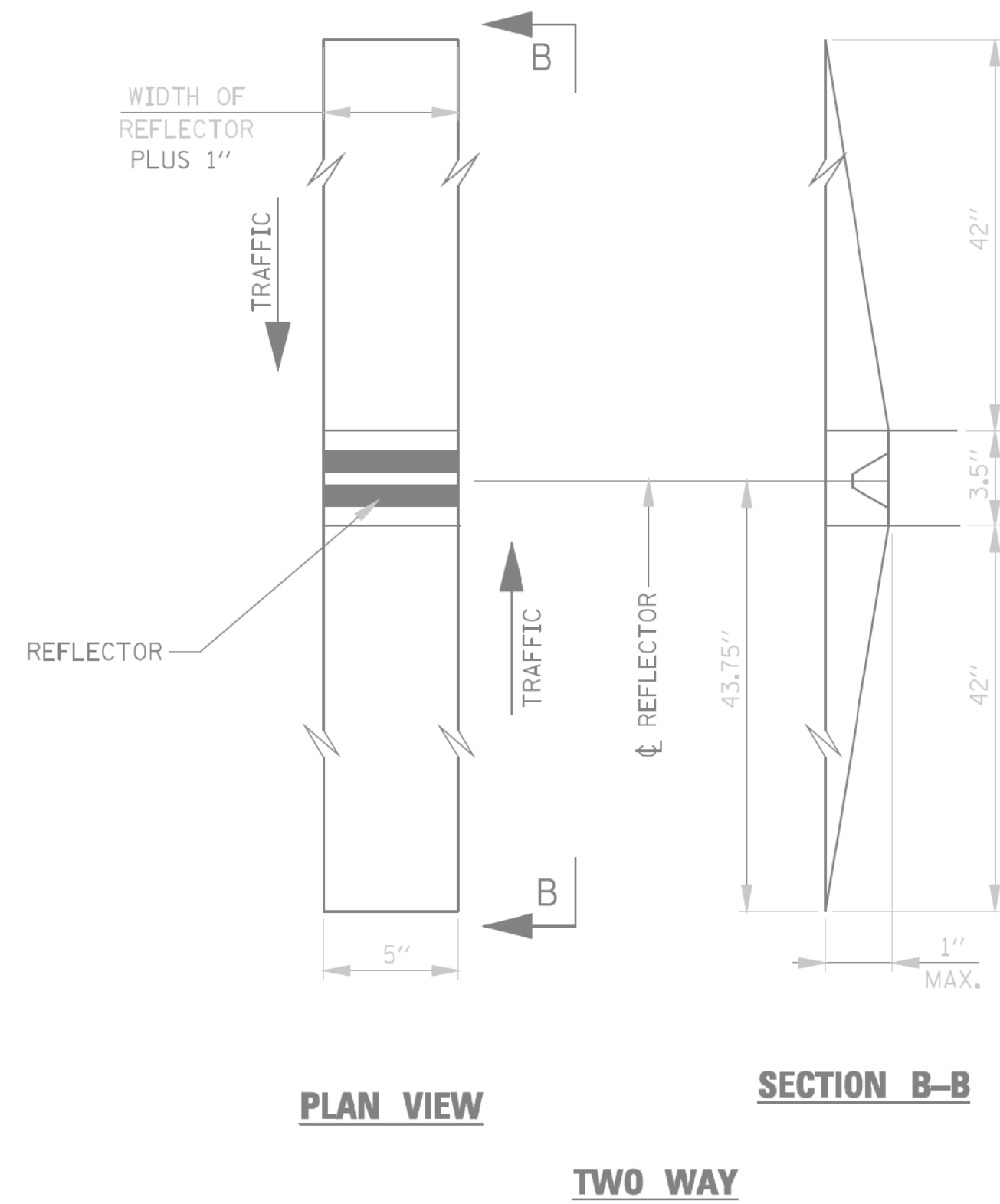


USER NAME = 560KAR	DESIGNED - LJK	REVISED -
DRAWN - UKB	CHECKED - DJS	REVISED -
PLOT SCALE = 5.0000' / 1"	DATE - 10-04-18	FILE - 170562-Sht-ADA-Rte14-NE-SW.dgn
PLOT DATE = 11/8/2018		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ADA SIDEWALK RAMP DETAIL NORTHEAST CORNER AT US RTE 14 (NORTHWEST HWY)			
SCALE: 1"=5'	SHEET	OF SHEETS	STA. TO STA.

F.A.P./F.A.U. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 52
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				



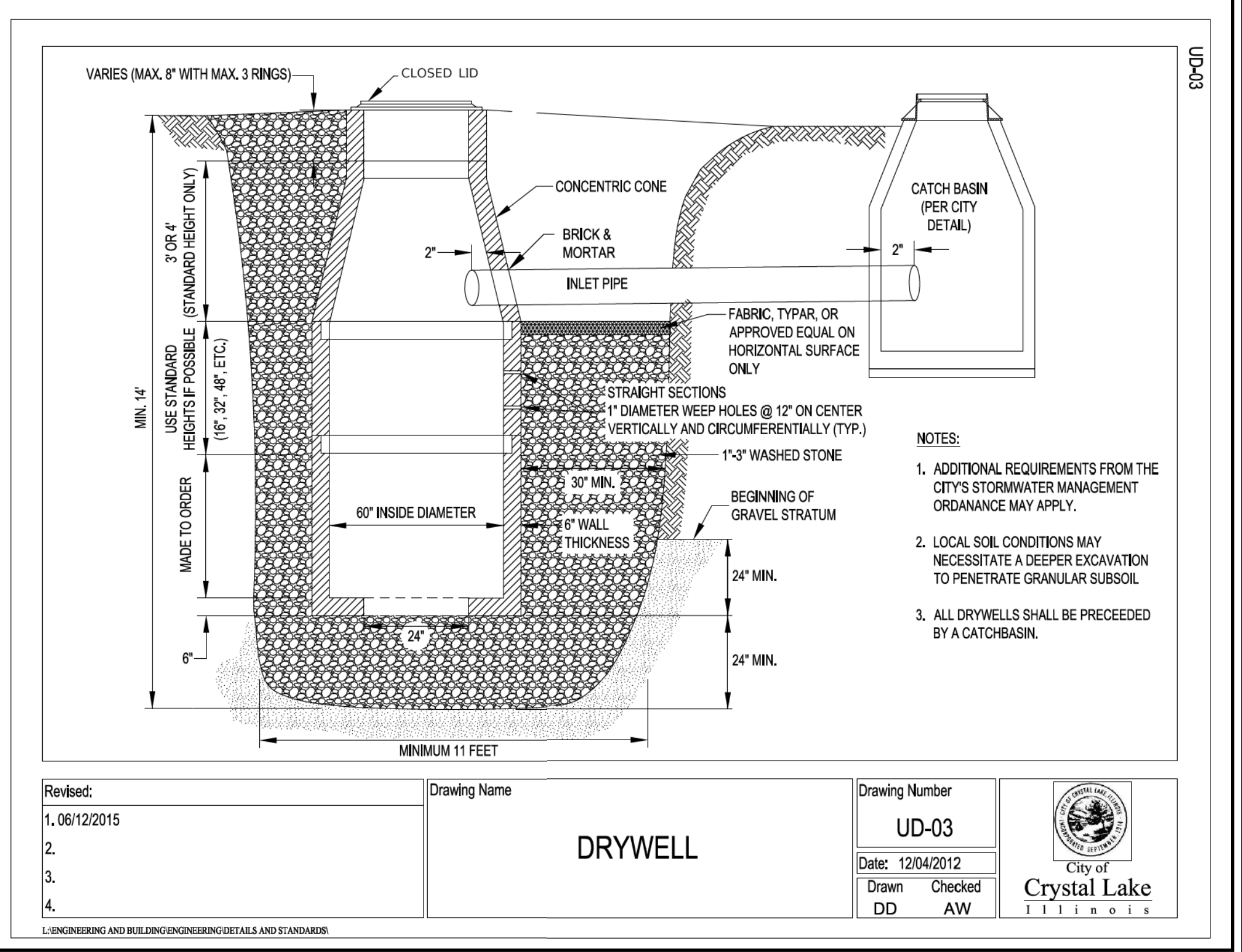
RECESSED REFLECTIVE MARKERS

INSTALLATION NOTES:

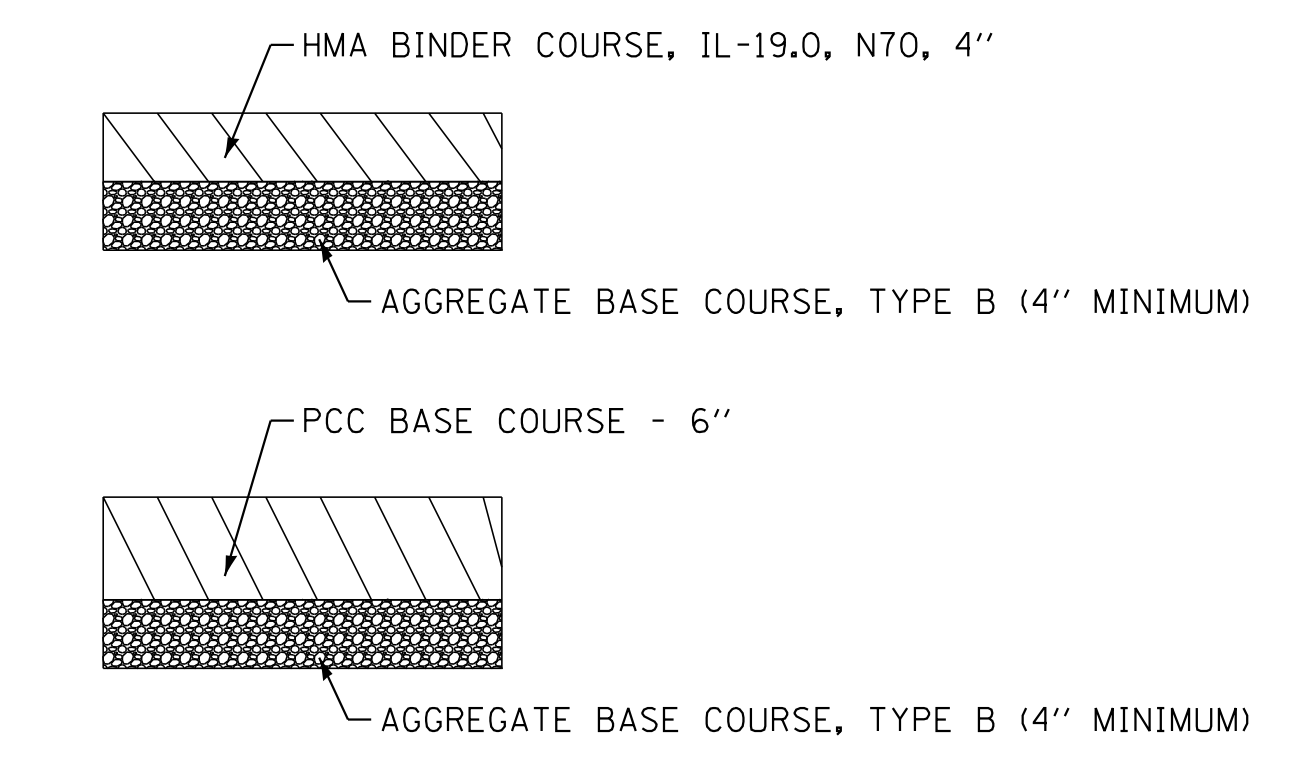
1. SAWCUT IN DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BAND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. INSTALL TOP OF REFLECTOR 1/2 TO 1/4 INCH BELOW THE PAVEMENT SURFACE.
5. REFLECTOR SHALL BE 3M SERIES 290.

GENERAL NOTES:

1. INSTALLATION SHALL CONFORM TO DISTRICT 1 DETAIL TC-11 (OR LATEST) FOR MARKER PLACEMENT.
2. DISTRICT 1 DETAIL TC-11 SHALL BE MODIFIED TO REFLECT IN RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.



Revised:	Drawing Name	Drawing Number	
1. 06/12/2015	DRYWELL	UD-03	
2.		Date: 12/04/2012	City of Crystal Lake Illinois
3.		Drawn DD Checked AW	
4.			



TEMPORARY PAVEMENT
(CONTRACTOR HAS THE OPTION OF USING HMA OR PCC SECTION FOR TEMPORARY PAVEMENT)

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:21 PM
 FILE NAME: I:\Crystal Lake\CRYL\170562-Sht-Misc-Details.dgn

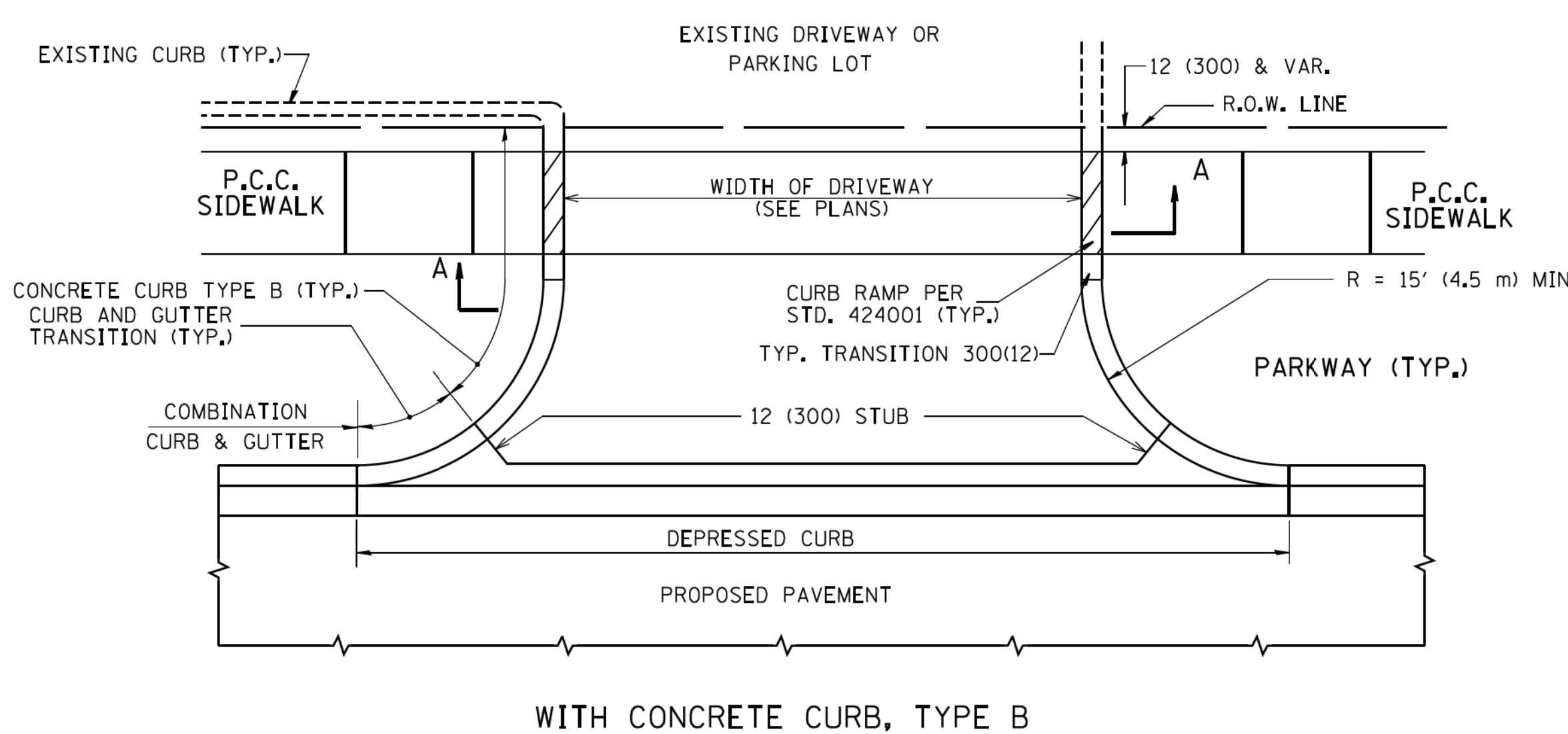
	USER NAME = 560KAR	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 12.0000" / ft.	CHECKED -	REVISED -
	PLOT DATE = 11/8/2018	DATE - 10-04-18	FILE - 170562-Sht-Misc-Details.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

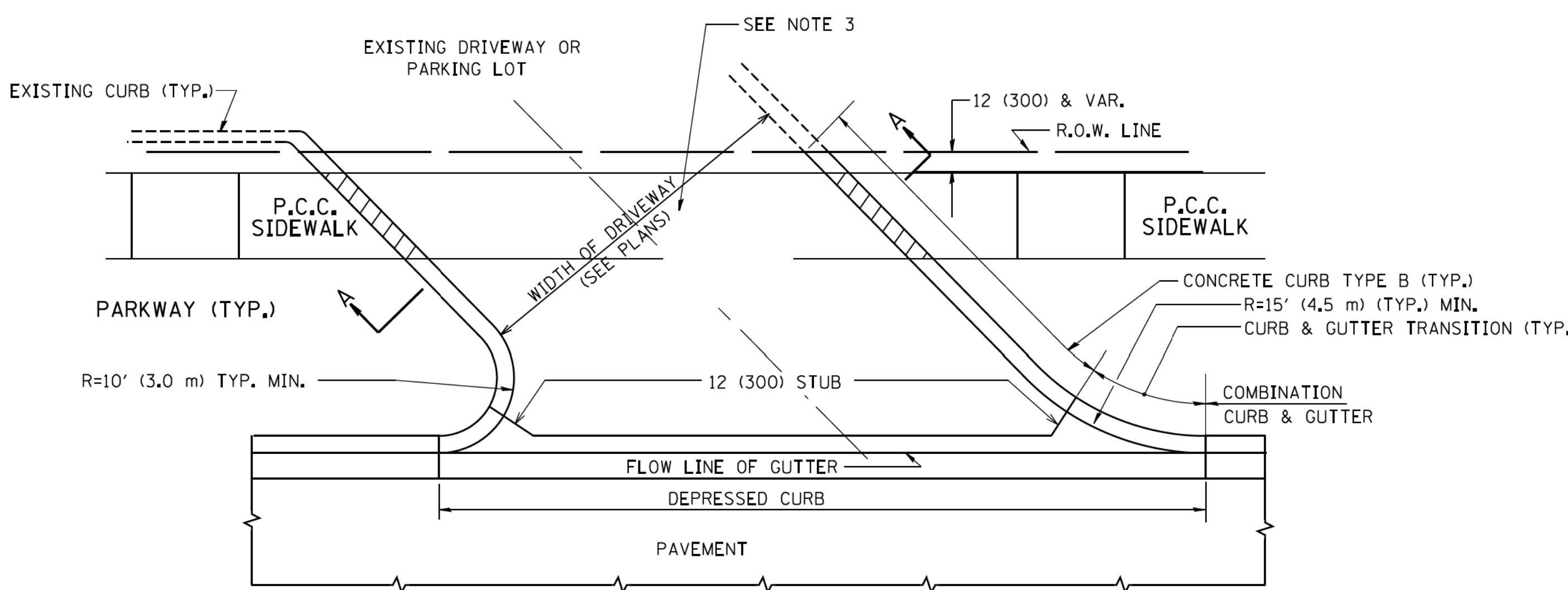
SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
--------	--	-------	----	--------	------	----	------

F.A.P./F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305 0121	17-00125-00-CH	MCHEMRY	70	53
CONTRACT NO. 61F23				
ILLINOIS FED. AID PROJECT QIK3(554)				

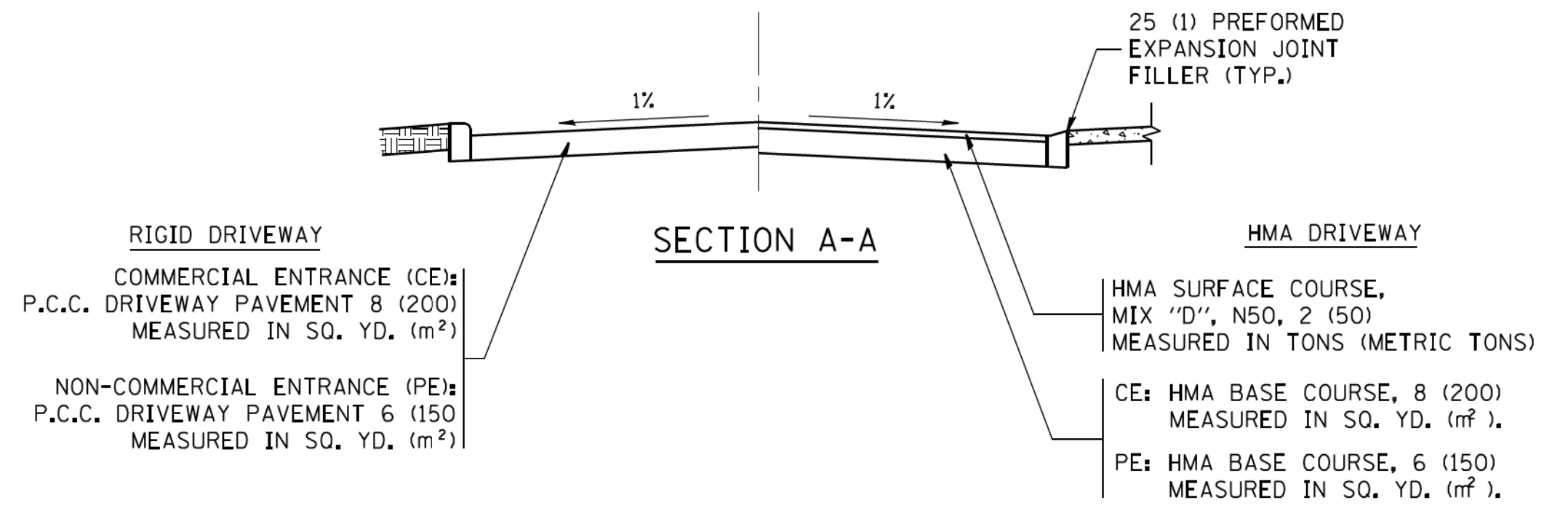
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:50 PM
 FILE NAME: ...\\plotdrv\pdf-BW-Default.plt
 ...\\CADD\Projects\170562-B&M.tbl
 ...\\corp\boxwood.com\Projects\CrystalLake\CrystalLake\CRYL\170562-Rt 14 of Virginia\CADD\170562-Sht-DI-BD-Details.dgn
 FILE MODIFIED: ...\\plotdrv\pdf-BW-Default.plt
 ...\\CADD\Projects\170562-B&M.tbl
 ...\\corp\boxwood.com\Projects\CrystalLake\CrystalLake\CRYL\170562-Rt 14 of Virginia\CADD\170562-Sht-DI-BD-Details.dgn



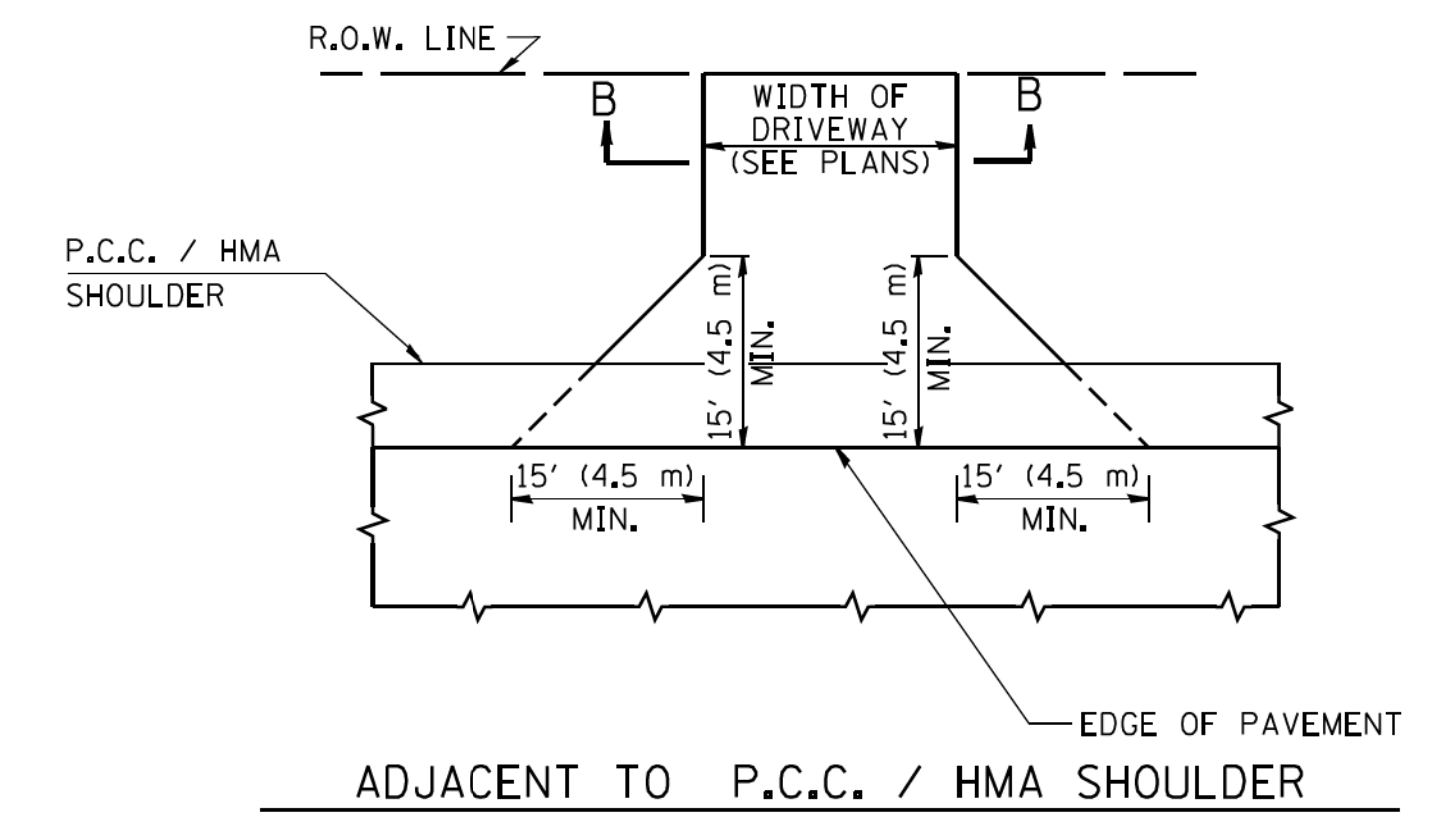
WITH CONCRETE CURB, TYPE B



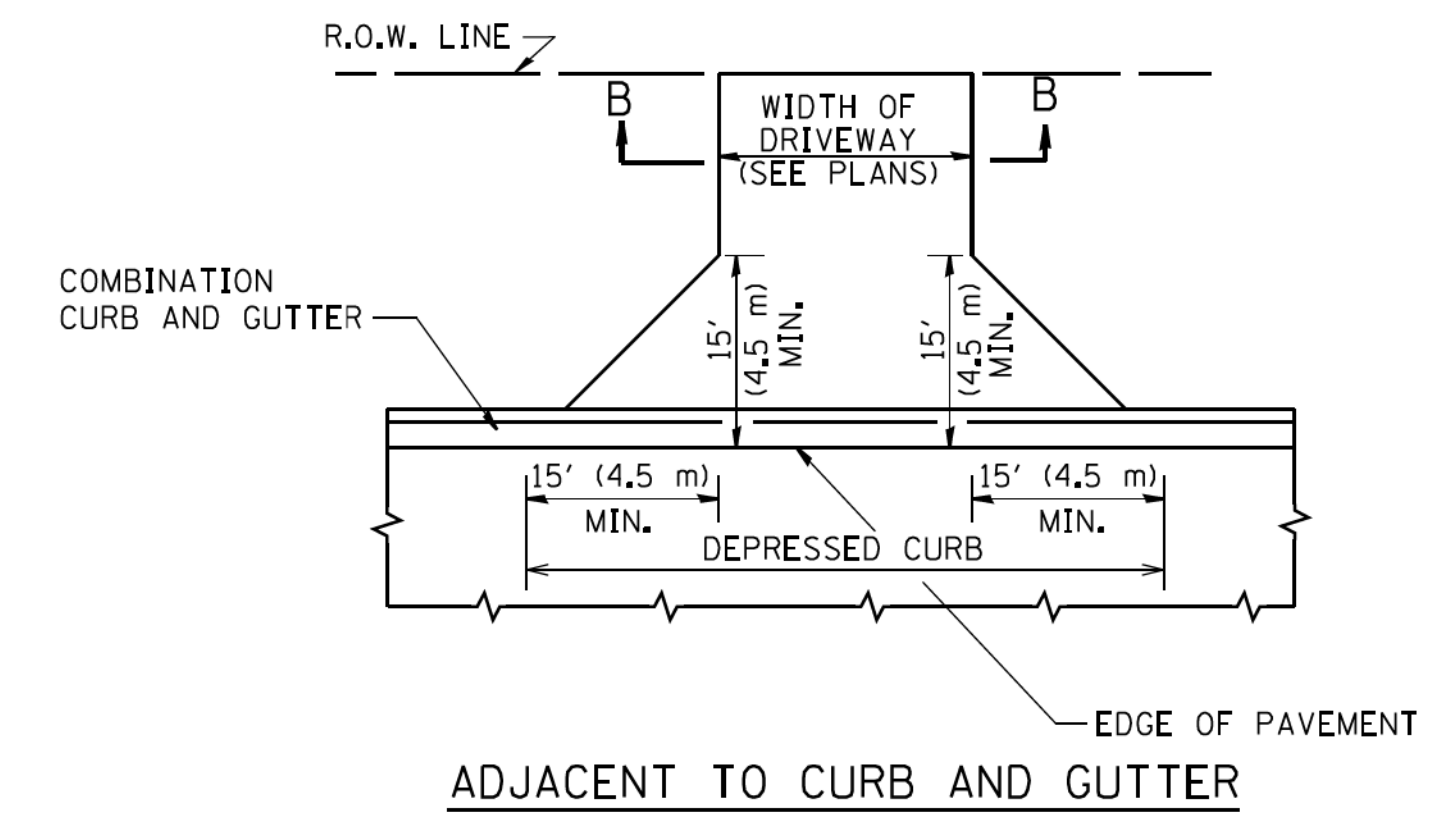
WITH CONCRETE CURB, TYPE B



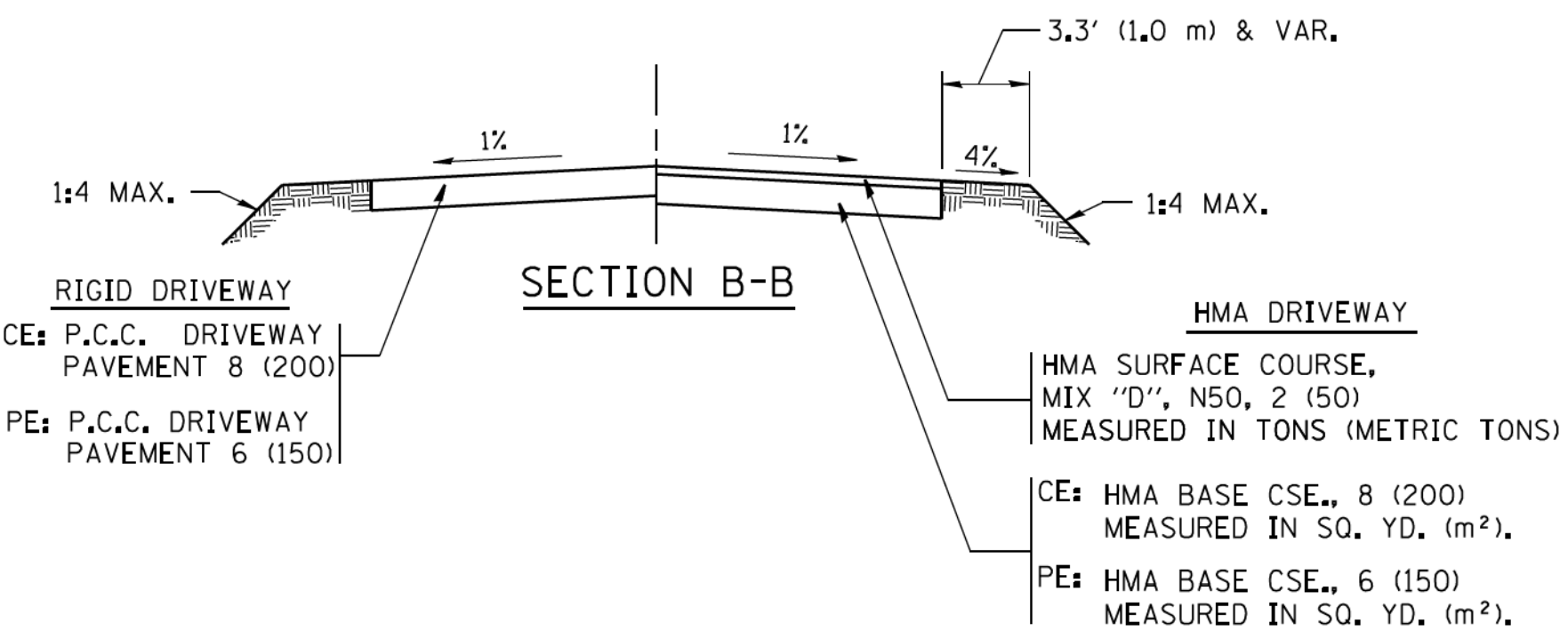
SECTION A-A



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

RURAL FIELD ENTRANCE (FE)

GENERAL NOTES:

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

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

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

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

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

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

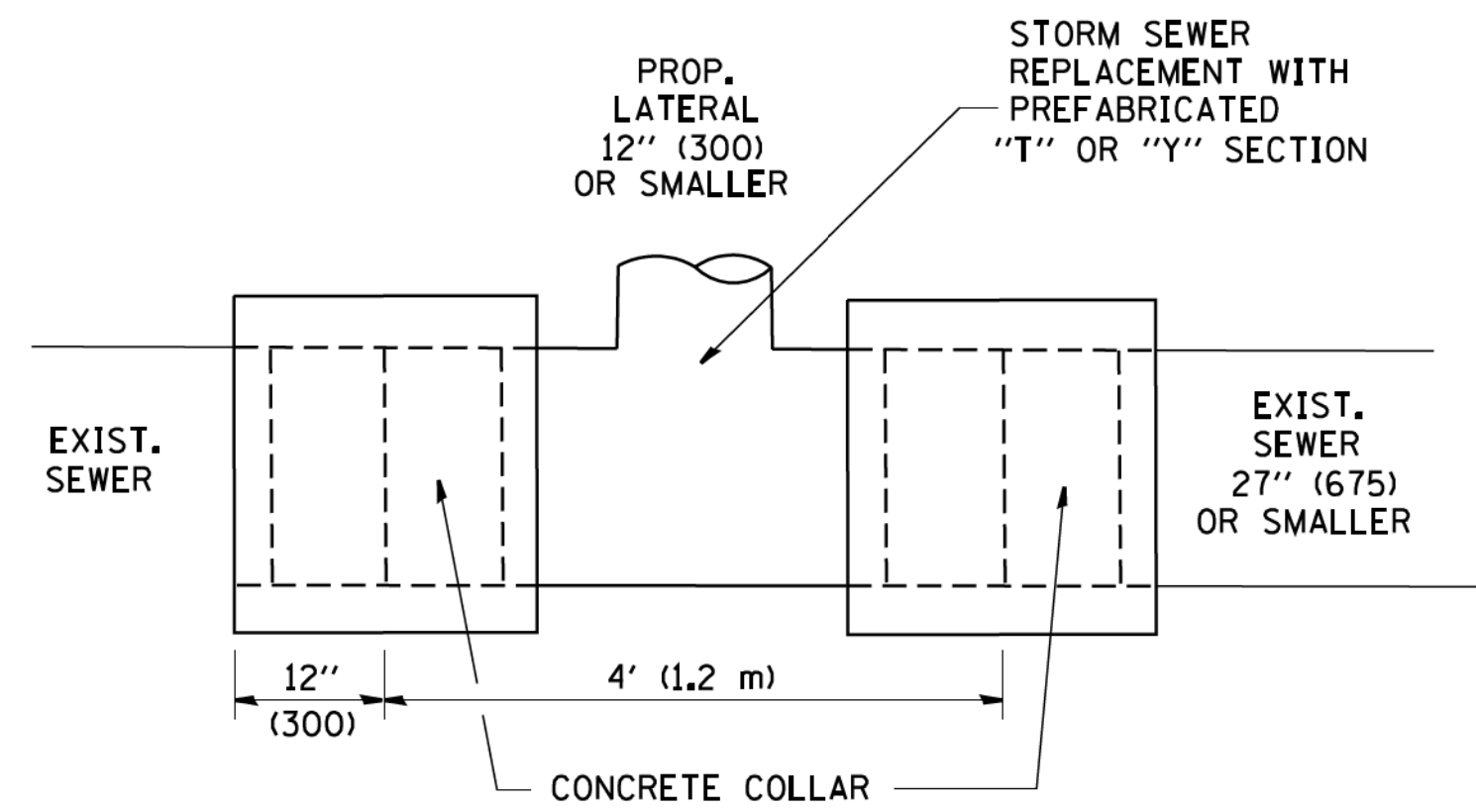
FILE NAME =	USER NAME = lcyss	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
ca\pwwork\pwwork\lcyss\d0108315\bd01.dgn		DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 50.0000 / 1 in.		CHECKED -	REVISED - R. BORO 06-11-08
PLOT DATE = 9/6/2011		DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

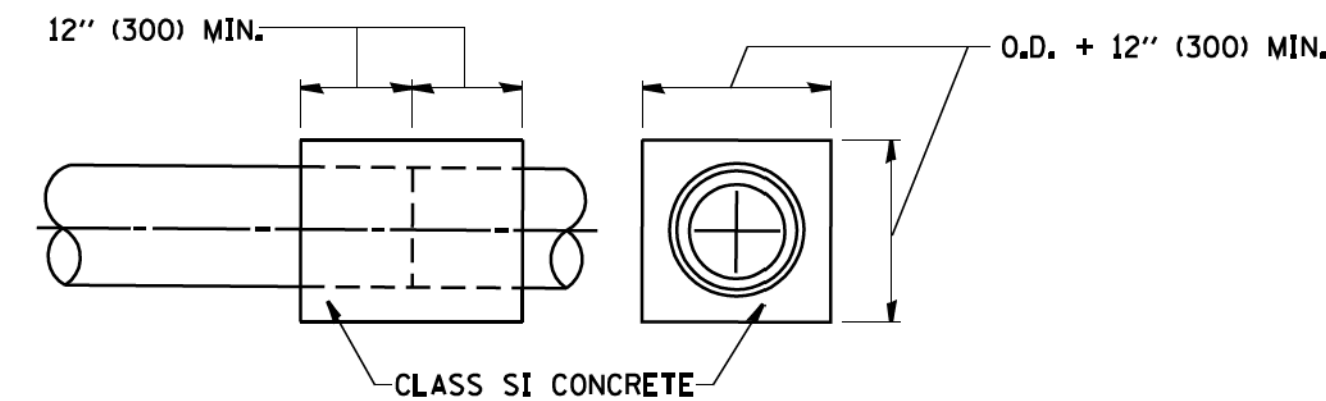
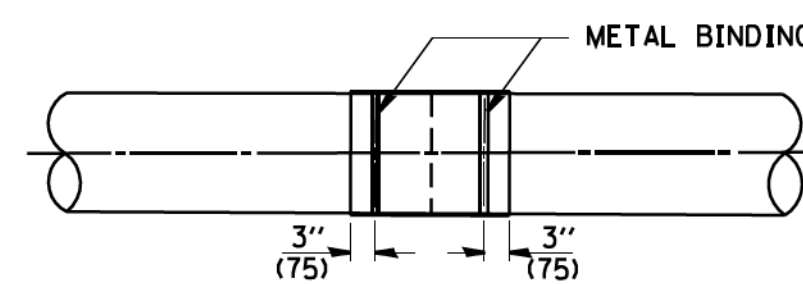
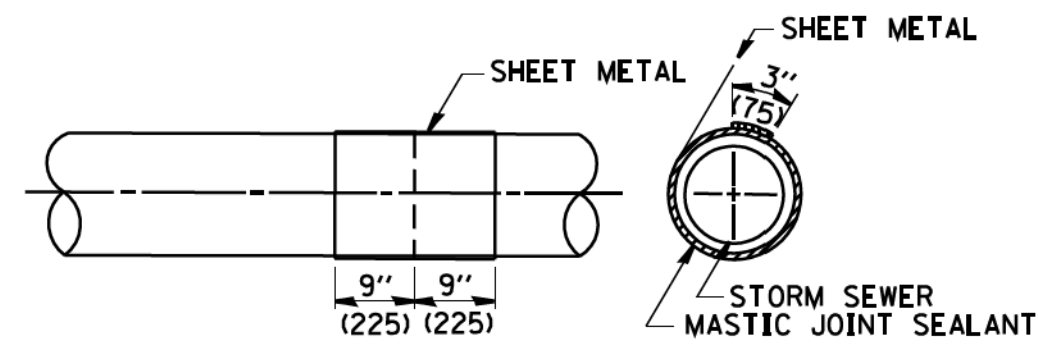
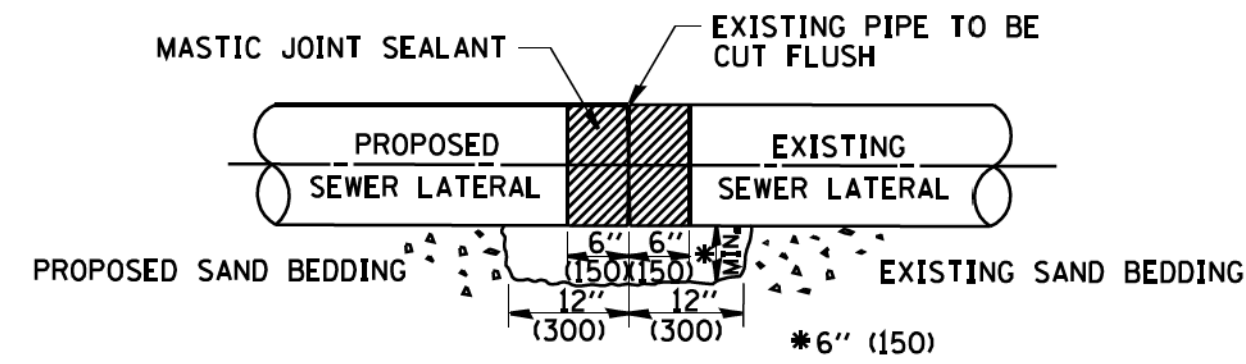
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P./F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305 0121	17-00125-00-CH	MCHENRY	70	54
BD0156-07 (BD-01)		CONTRACT NO. 61F23		
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT QIK31554				



DETAIL "A"

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

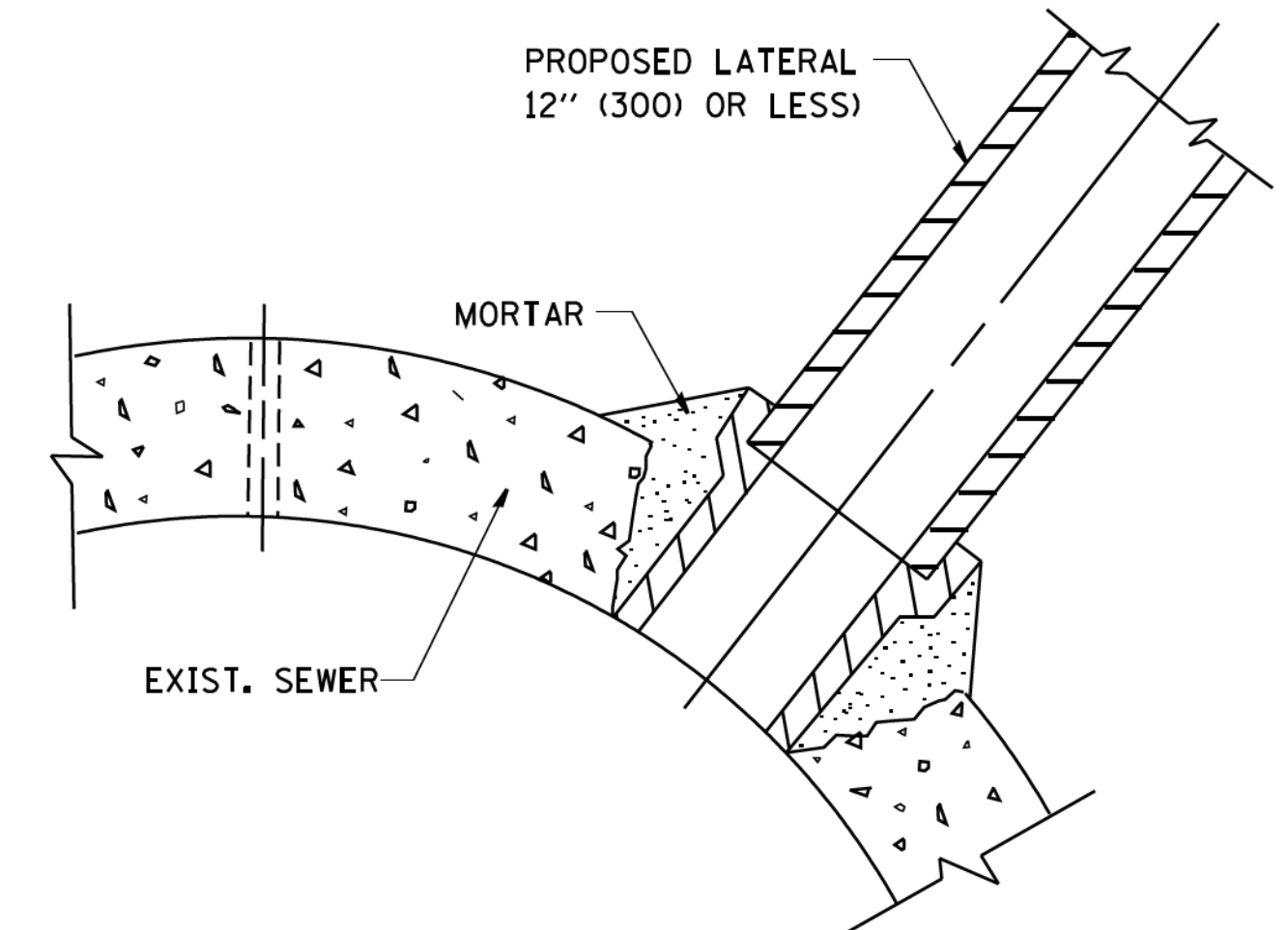


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



DETAIL "C"

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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

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

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

GENERAL

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

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

BASIS OF PAYMENT

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

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

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

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

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

FILE NAME = W:\diststa\22x34\bd07.dgn	USER NAME = geglianob	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
		DRAWN -	REVISED - R. SHAH 09-09-94
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

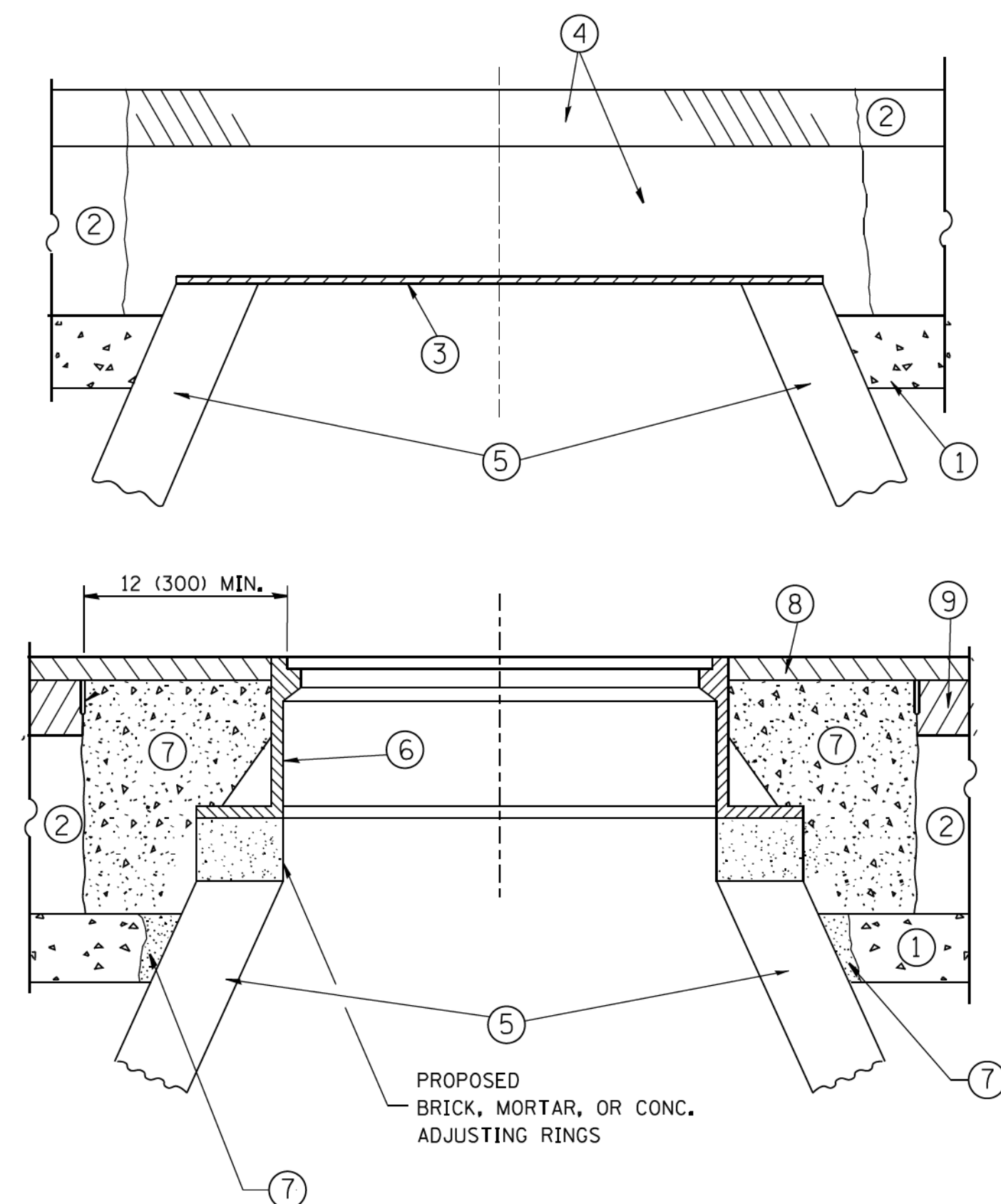
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 55
BD500-01 (BD-7)			CONTRACT NO. 61F23	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK3(554)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:06:53 PM
 FILE NAME = c:\pwwork\pwwork\baured\108315\bd08.dgn
 USER NAME = baured1
 DESIGNED - R. SHAH
 REVISED - R. WIEDEMAN 05-14-04
 DRAWN -
 REVISED - R. BORO 01-01-07
 CHECKED -
 REVISED - R. BORO 03-09-11
 DATE - 10-25-94
 REVISED - R. BORO 12-06-11



NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

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

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

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

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

CONSTRUCTION PROCEDURES

- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
 - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

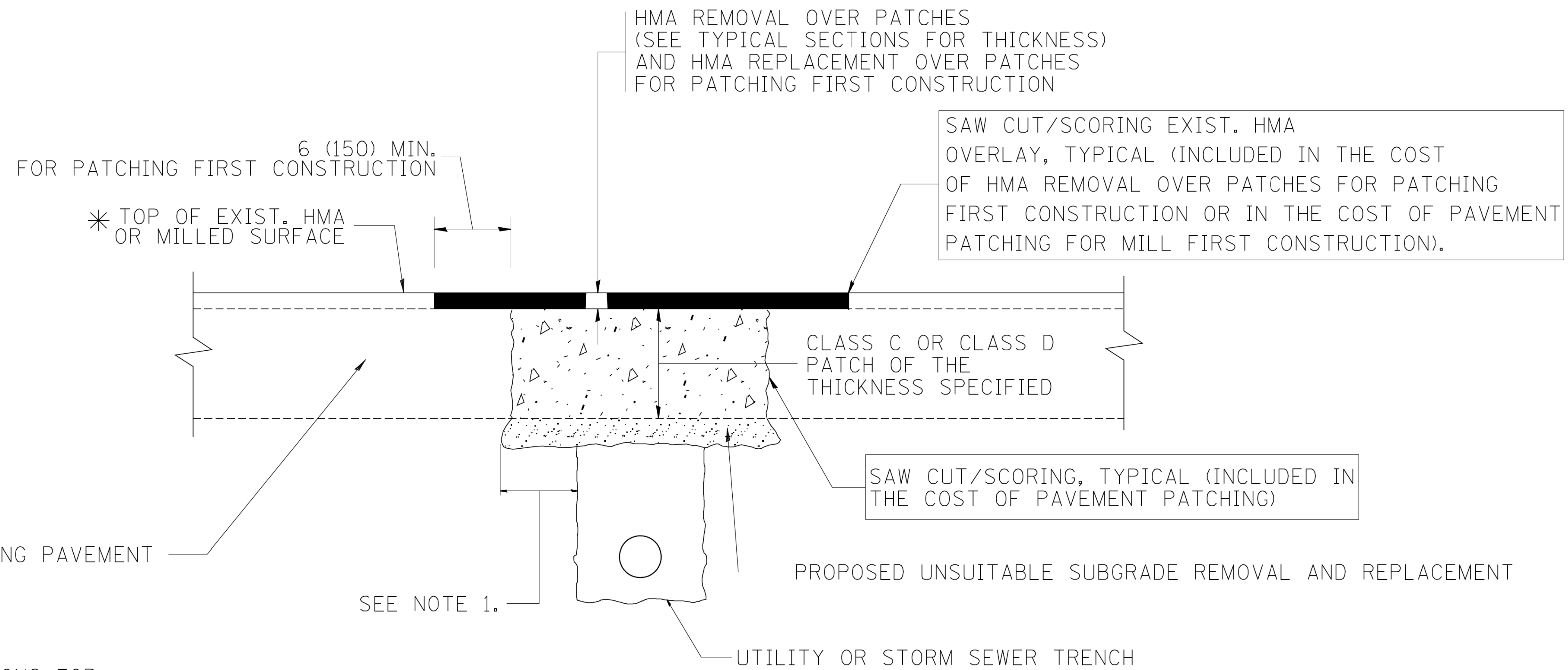
FILE NAME =	USER NAME = baured1	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
ca\pwwork\pwwork\baured\108315\bd08.dgn		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 1/8" = 1'-0"	REVISED - R. BORO 03-09-11
		CHECKED -	REVISED - R. BORO 12-06-11
		DATE - 10-25-94	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. + RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 56
BD600-03 (BD-8)		CONTRACT NO. 61F23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560 KAR 11/28/2018
 FILE NAME: c:\projects\disstd22x34\bd22.dgn
 USER: bauerdl
 PLOT DATE: 10/27/2008



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 *F.A.P./F.A.U.

FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT		F.A. + RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\projects\disstd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	17-00125-00-CH	MCHENRY	70	57
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)		CONTRACT NO. 61F23					
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 01K31554							

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

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

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

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

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

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

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

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

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

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

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

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

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)
1/4" (5) **

18" (450) MAX.

3" (75) MIN.

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

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

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

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

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

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

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

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

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
*F.A.P./F.A.U.

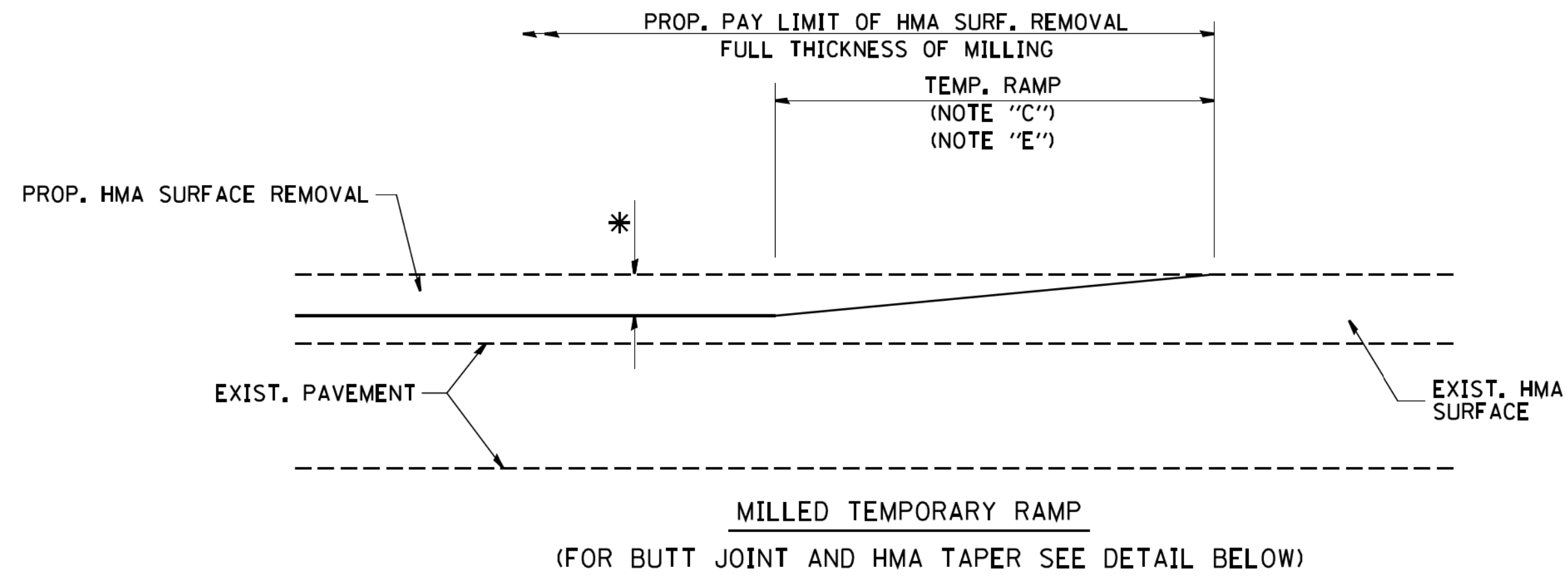
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-00121 - EXPIRES 4/30/2019
560KAR 11/28/2018 12:07:16 PM
FILE NAME: c:\pwwork\pwwork\drivakosgn\d0108315\bd24.dgn
... \plotdrv\pdf-BW-Default.plt
... \CADD\Projects\170562-B&M.tbl
... \corp\boxwood\com\Projects\CrystalLake\CrystalLake\CRYL\170562-Rt 14.ctb
... \corp\boxwood\com\Projects\CrystalLake\CRYL\170562-Rt 14.ctb
... \corp\boxwood\com\Projects\CrystalLake\CRYL\170562-Rt 14.ctb
... \corp\boxwood\com\Projects\CrystalLake\CRYL\170562-Rt 14.ctb

FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96
		DRAWN -	REVISED - A. ABBAS 03-21-97
		PLOT SCALE = 50.000' / IN.	REVISED - M. GOMEZ 01-22-01
		PLOT DATE = 12/15/2009	REVISED - R. BORO 12-15-09

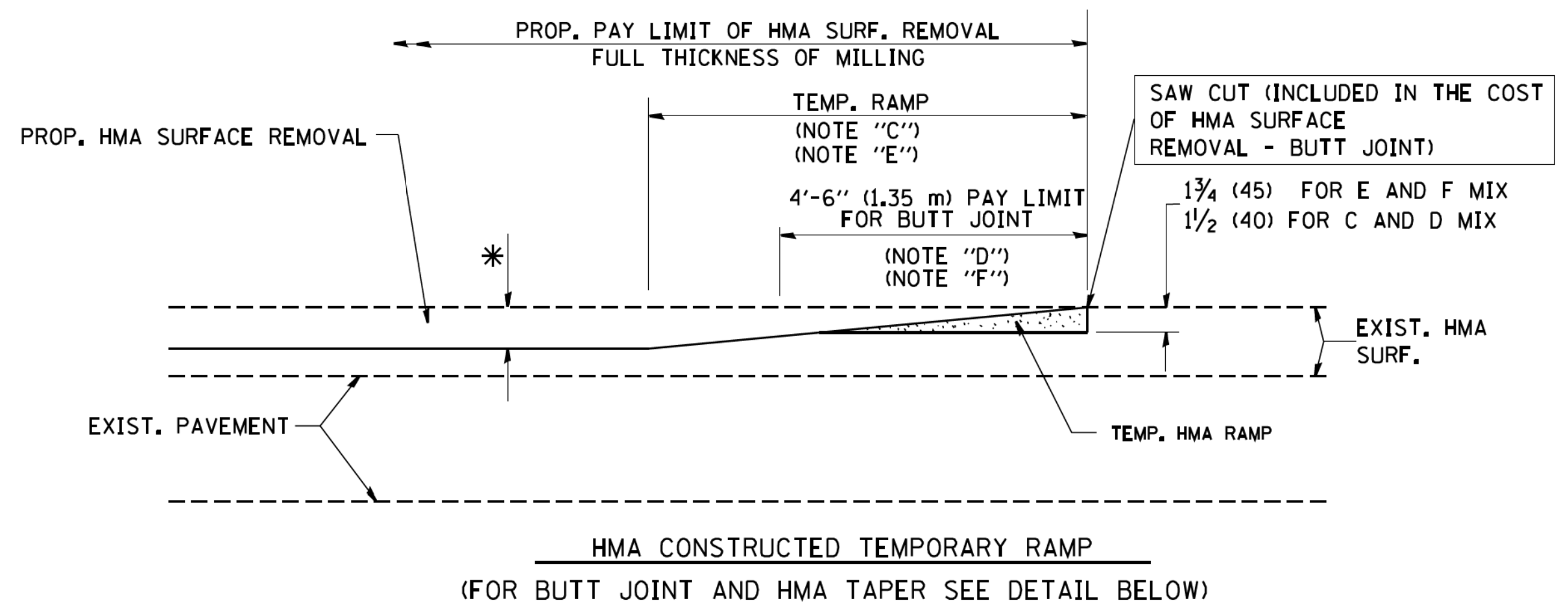
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.

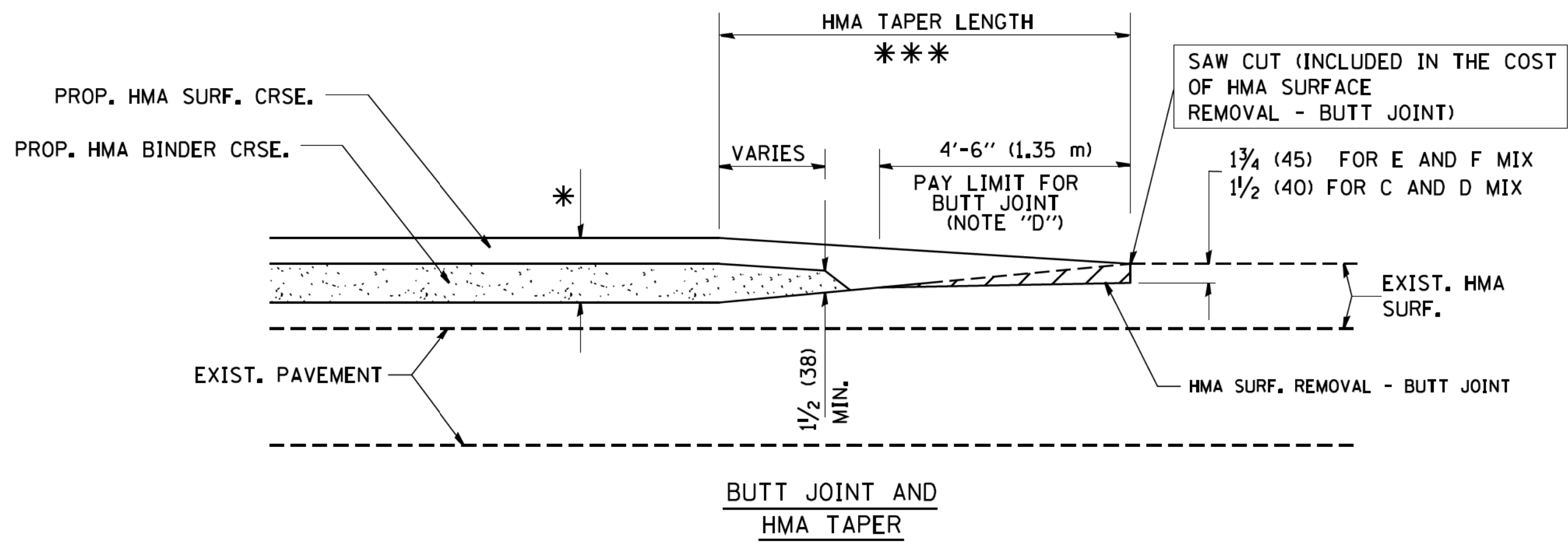
F.A. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 58
BD600-06 (BD-24)			CONTRACT NO. 61F23	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 01K31554				



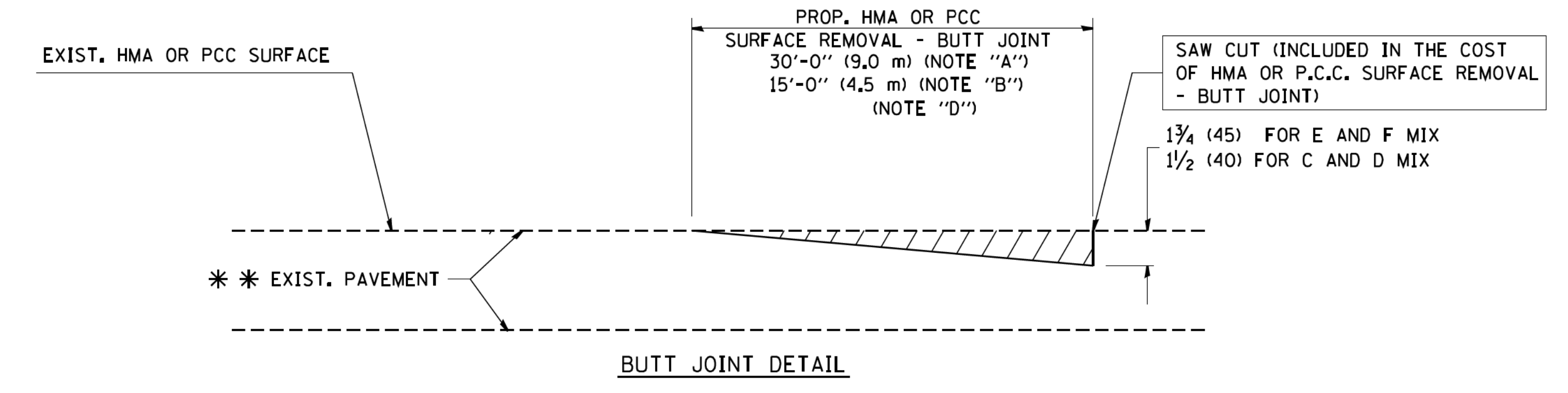
OPTION 1



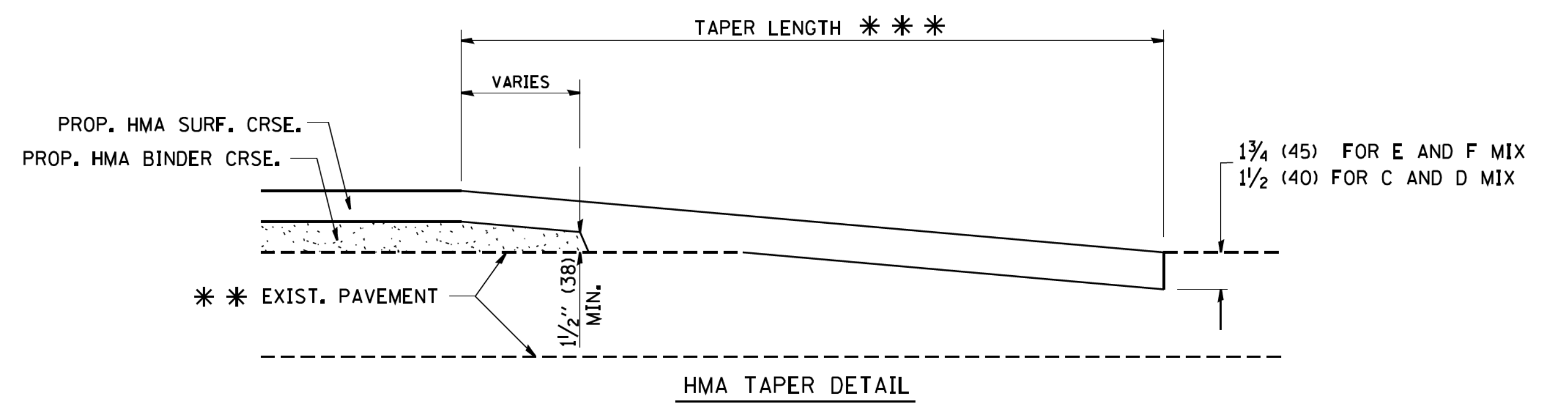
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

NOTES

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

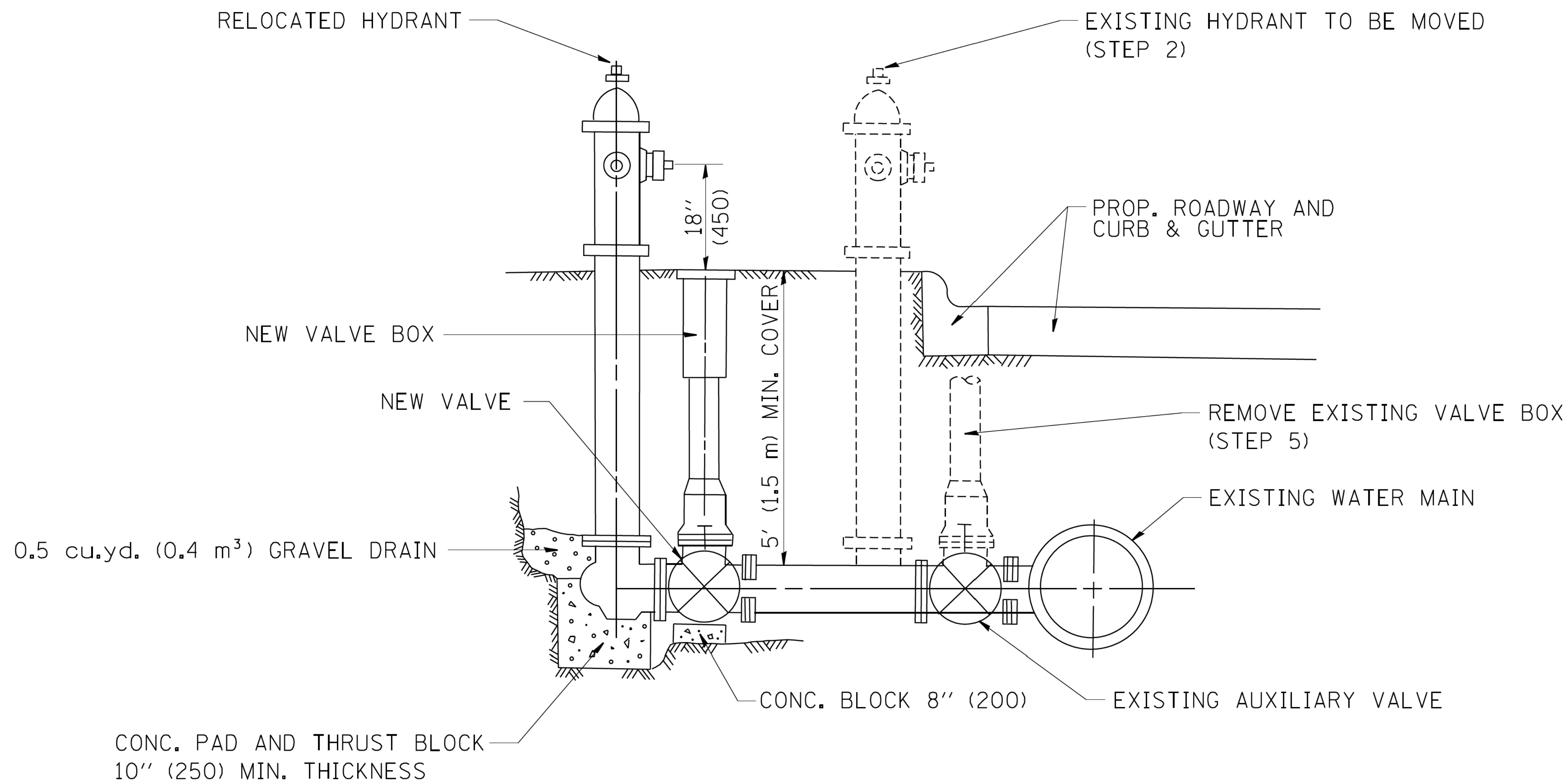
BASIS OF PAYMENT:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
*F.A.P./F.A.U.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/8/2018 12:07:21 PM
 FILE NAME: W:\diststd\22x34\bd32.dgn
 USER NAME: geglianobt
 DESIGNED - M. DE YONG
 DRAWN -
 CHECKED -
 DATE - 06-13-90
 REVISED - R. SHAH 10-25-94
 REVISED - A. ABBAS 03-21-97
 REVISED - M. GOMEZ 04-06-01
 REVISED - R. BORO 01-01-07
 SCALE: NONE
 SHEET NO. 1 OF 1 SHEETS
 STA. TO STA.
 BUTT JOINT AND HMA TAPER DETAILS
 SECTION 17-00125-00-CH
 COUNTY MCHENRY
 TOTAL SHEETS 70
 SHEET NO. 59
 CONTRACT NO. 61F23
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 11/28/2018 12:07:39 PM
 FILE NAME: W:\diststd\22x34\bd36.dgn
 W:\diststd\22x34\bd36.dgn
 ... \plotdrv\pdf-BW-Default.plt
 ... \CADD\Projects\170562-B&W.tbl
 ... \corp\boxwood.com\Projects\Crystal Lake\Crystal Lake\170562-Rt 14.ctb
 ... \corp\boxwood.com\Projects\Crystal Lake\Crystal Lake\170562-Rt 14.ctb
 ... \corp\boxwood.com\Projects\Crystal Lake\Crystal Lake\170562-Rt 14.ctb
 ... \corp\boxwood.com\Projects\Crystal Lake\Crystal Lake\170562-Rt 14.ctb



- SEQUENCE OF CONSTRUCTION:
1. CLOSE EXISTING VALVE.
 2. REMOVE EXISTING HYDRANT.
 3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
 4. RELOCATE EXISTING HYDRANT.
 5. OPEN EXISTING VALVE, REMOVE BOX.
 6. BACKFILL.
 7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

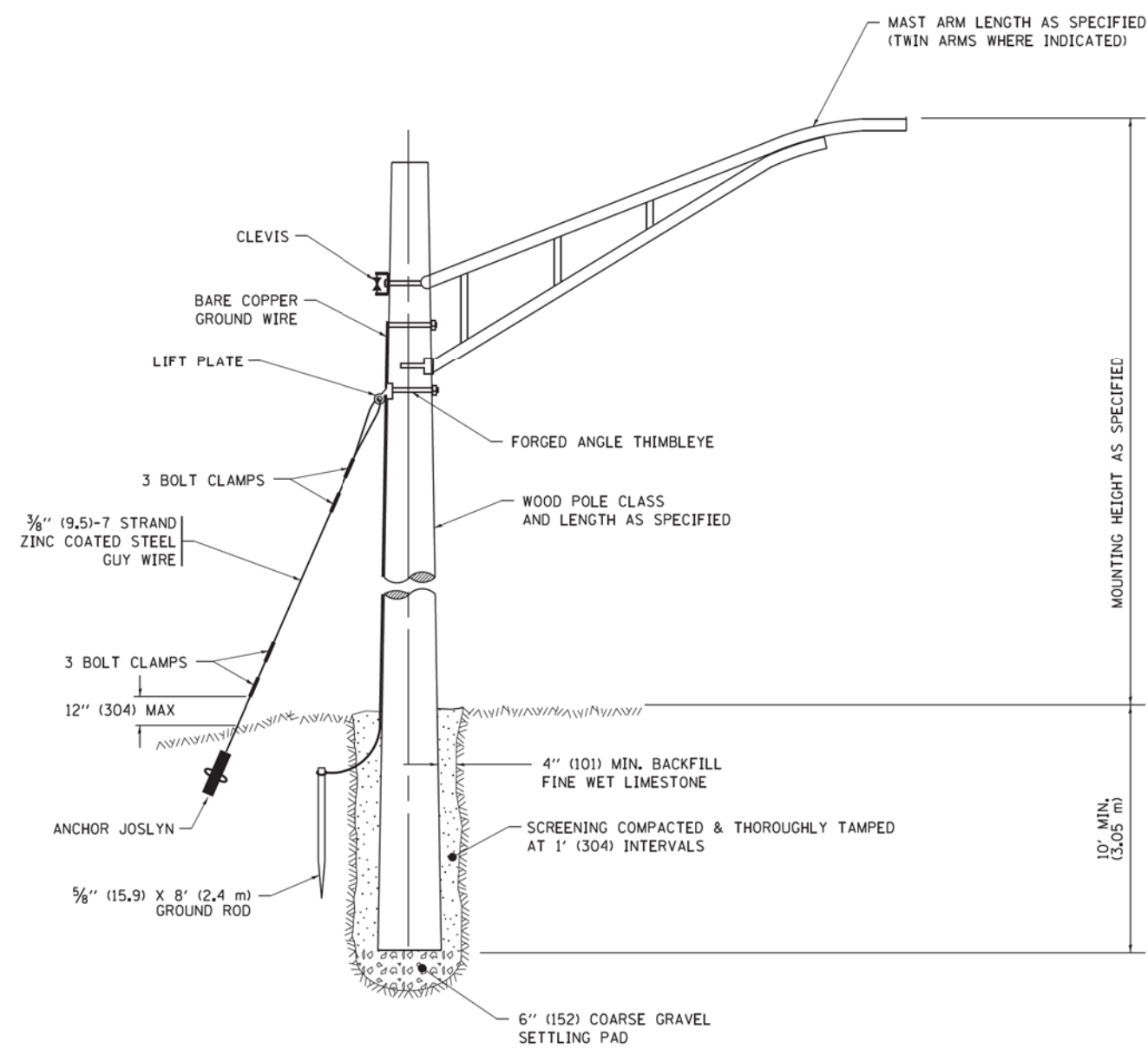
ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. *F.A.P./F.A.U.

FILE NAME =	USER NAME = geglano	DESIGNED -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED			F.A. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 60
W:\diststd\22x34\bd36.dgn		DRAWN -	REVISED - R. SHAH 10-25-94		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			BD-36		CONTRACT NO. 61F23		
PLOT SCALE = 50.0000' / 1"		CHECKED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 01K31554							
PLOT DATE = 1/4/2008		DATE -	REVISED -									

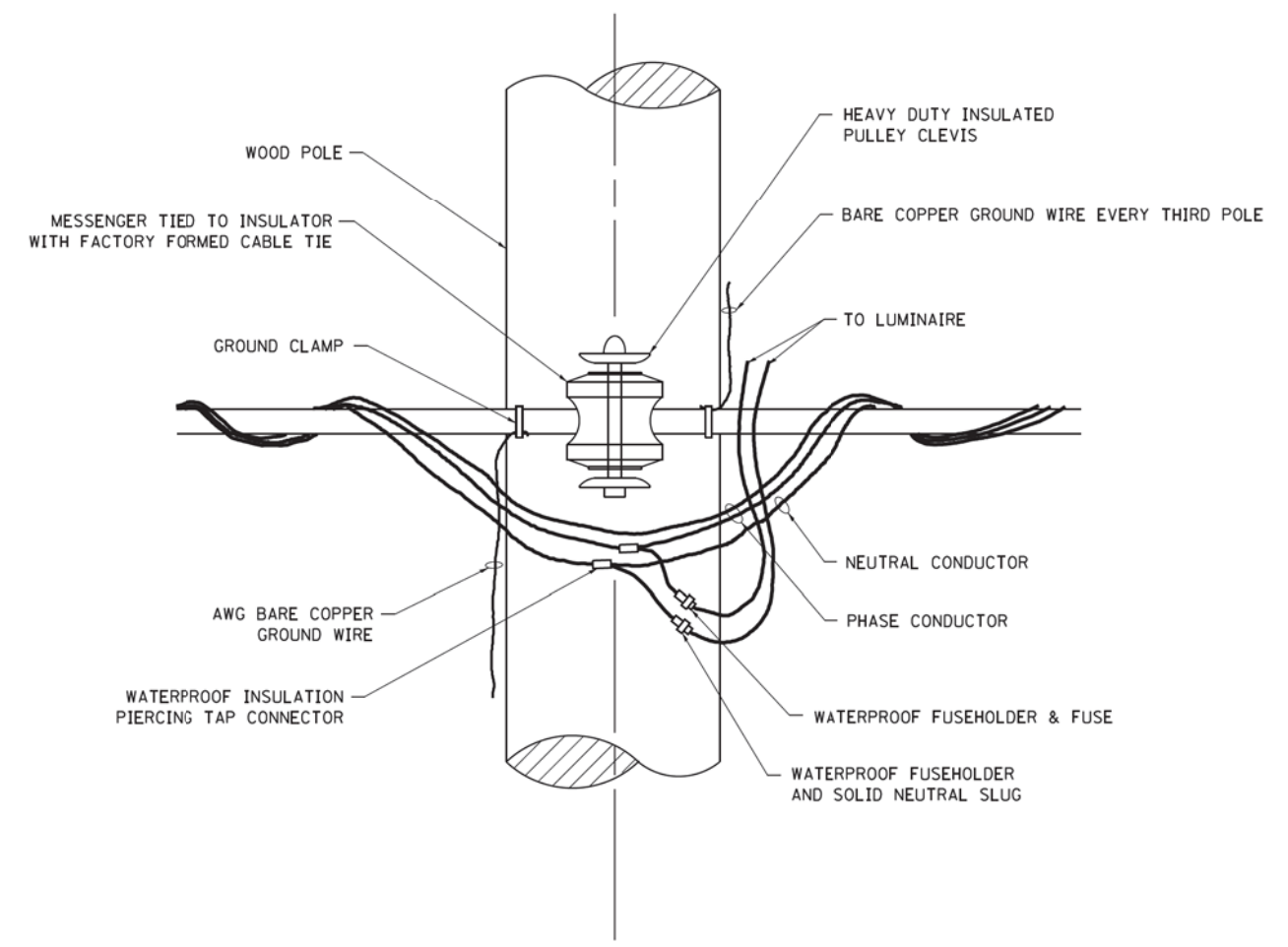
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 560KAR 12/4/2018 9:58:55 AM
 FILE NAME: I:\CADD\Projects\170562-RT 14.ctb
 PROJECT: ILLINOIS STATE ROAD 14, at Virginia CADD\170562-Sht-DI-BE-701.dgn
 FILE NAME: I:\CADD\Projects\170562-RT 14.ctb
 PROJECT: ILLINOIS STATE ROAD 14, at Virginia CADD\170562-Sht-DI-BE-701.dgn



TEMPORARY LIGHT POLE DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



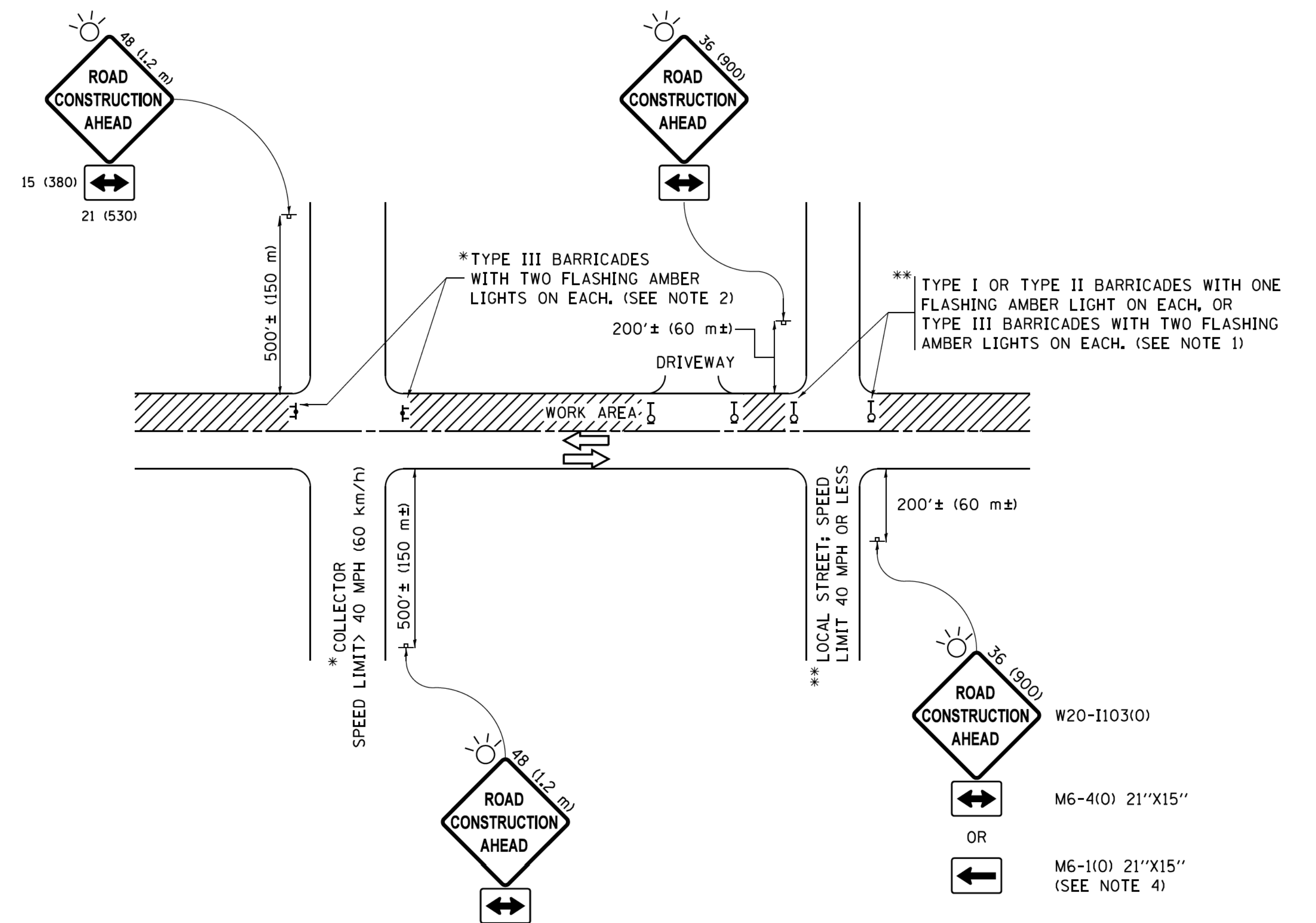
TEMPORARY LIGHT POLE ATTACHMENT DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03
Default	Documents\IDOT Offices\District 1\Projects\Dist 5\170562-RT 14.ctb	DRAWN -	REVISED - R.T. 07-26-16
	PLOT SCALE = 50,000' / 1" =	CHECKED -	REVISED -
	PLOT DATE = 9/1/2016	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHT POLE DETAILS	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305 0121	17-00125-00-CH	McHENRY	70	60A
BE-800		CONTRACT NO. 61F23		
ILLINOIS FED. AID PROJECT QIK31554				



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.

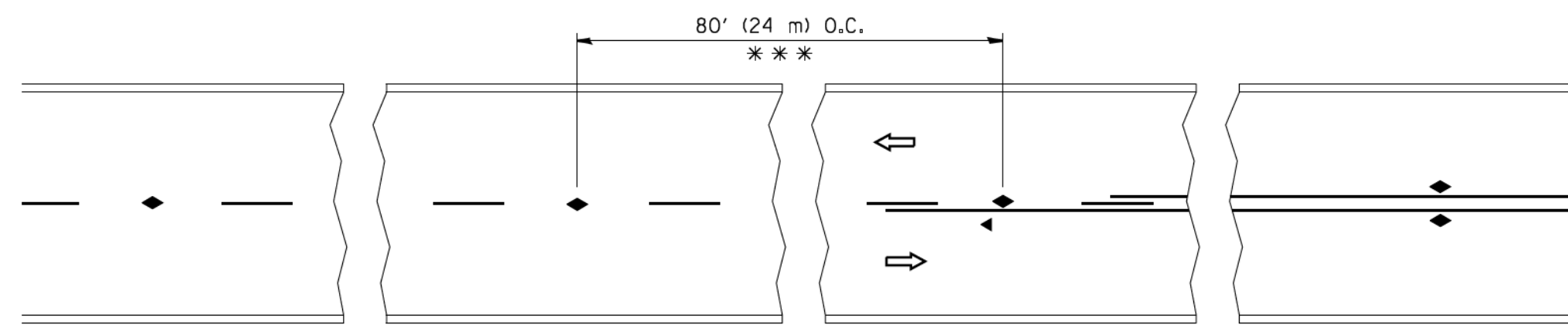
All dimensions are in inches (millimeters) unless otherwise shown.
 *F.A.P./F.A.U.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw\ll084EBIDINTEG.illinois.gov\FWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\CADD\cadd\CADsheets\ct10.dgn		DRAWN	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / 1in	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

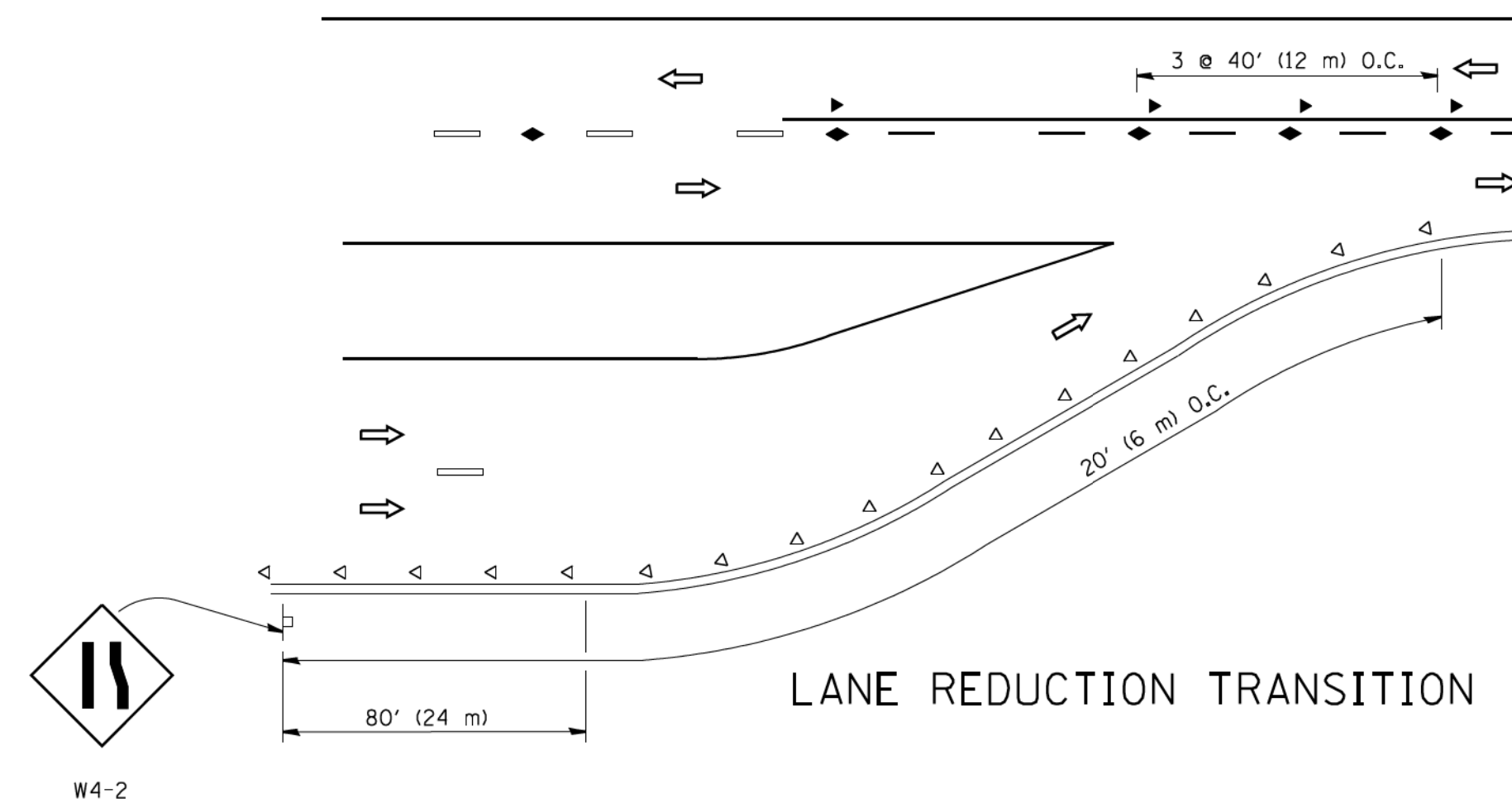
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 61
TC-10		CONTRACT NO. 61F23		
ILLINOIS FED. AID PROJECT 01K31554				

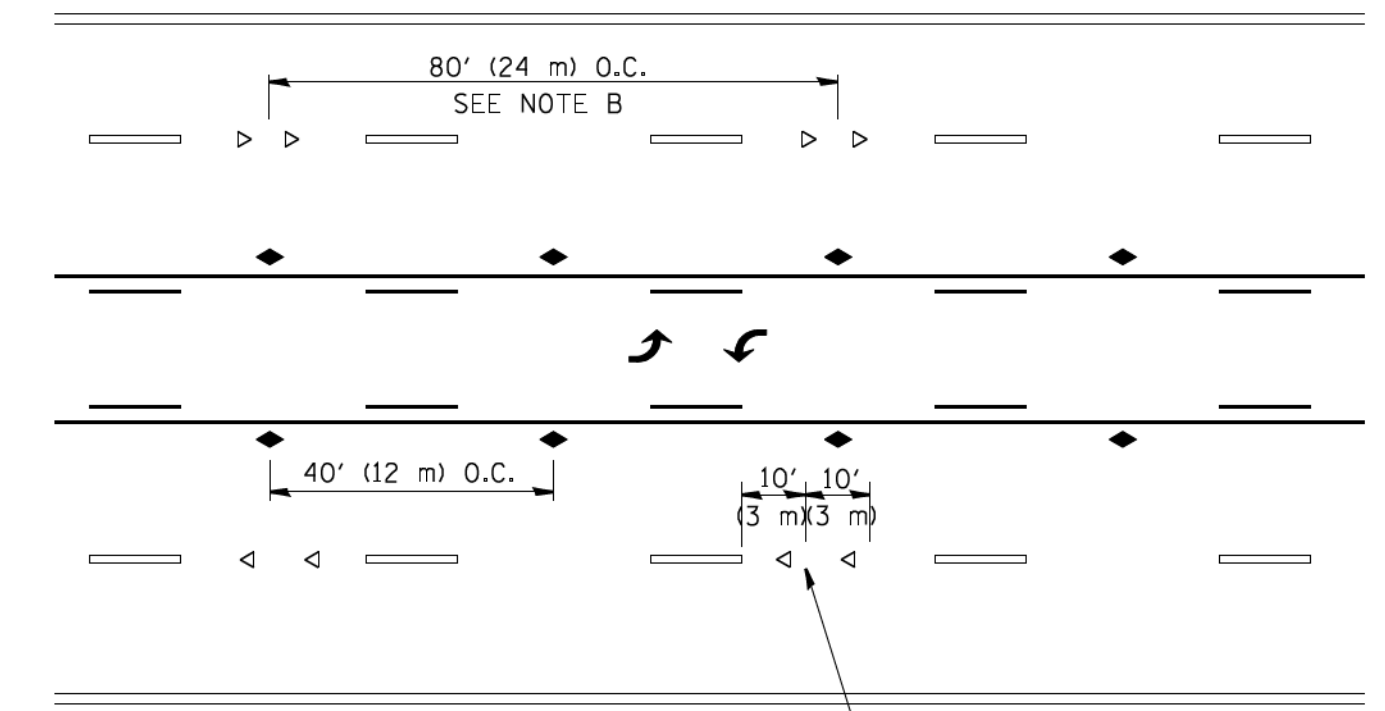


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

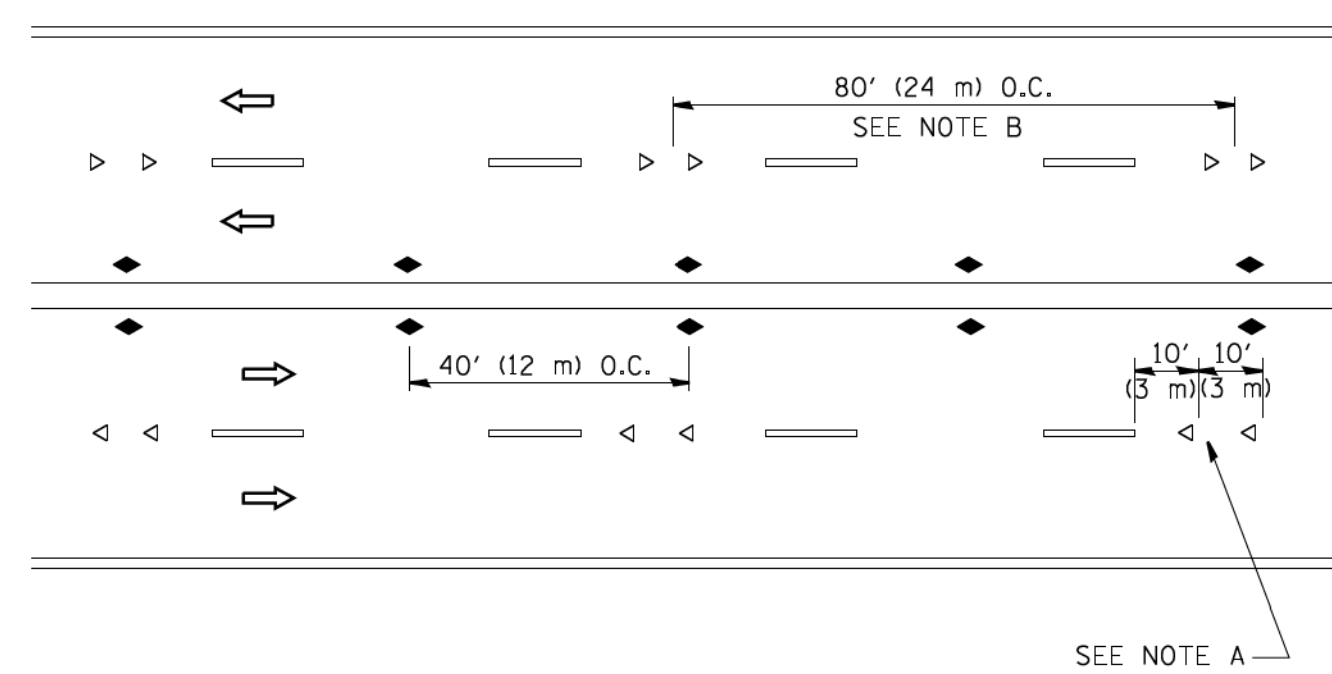
TWO-LANE/TWO-WAY



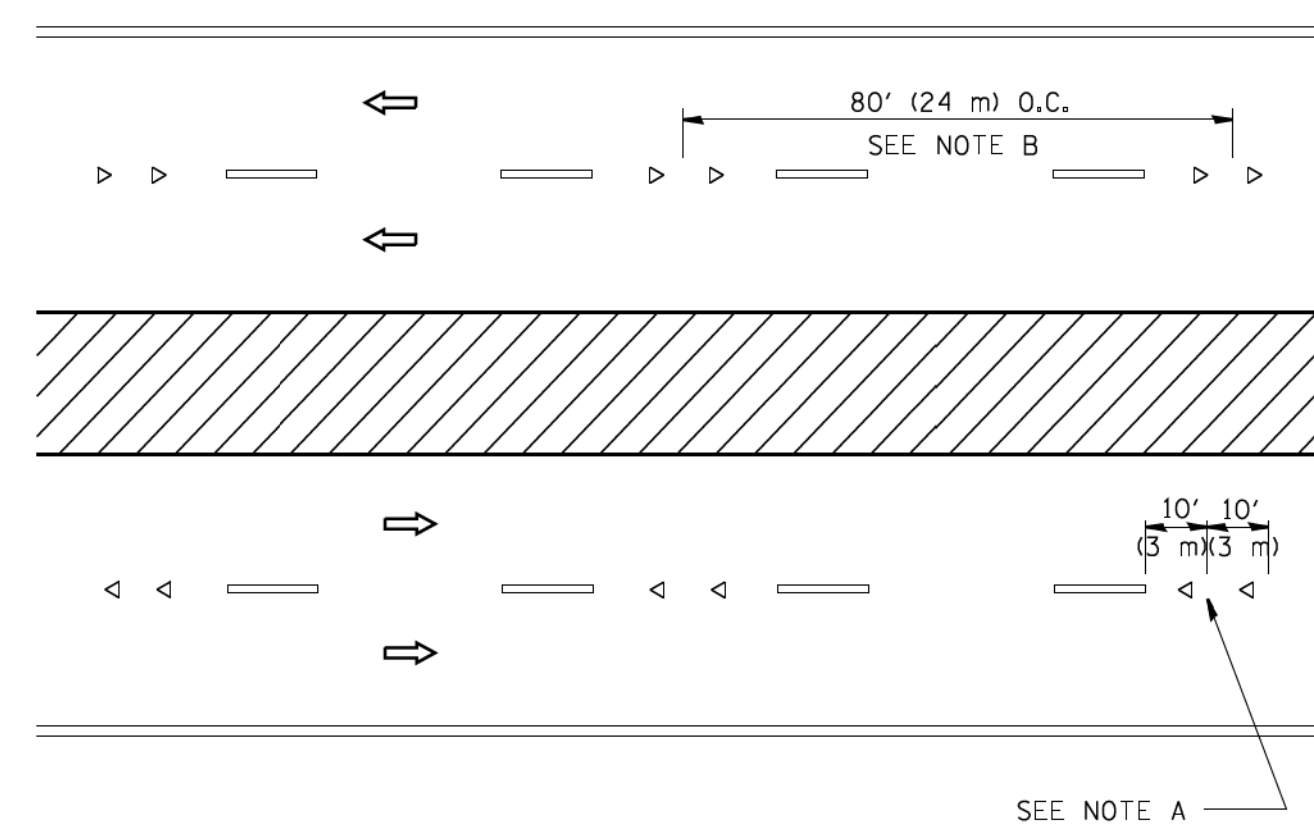
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

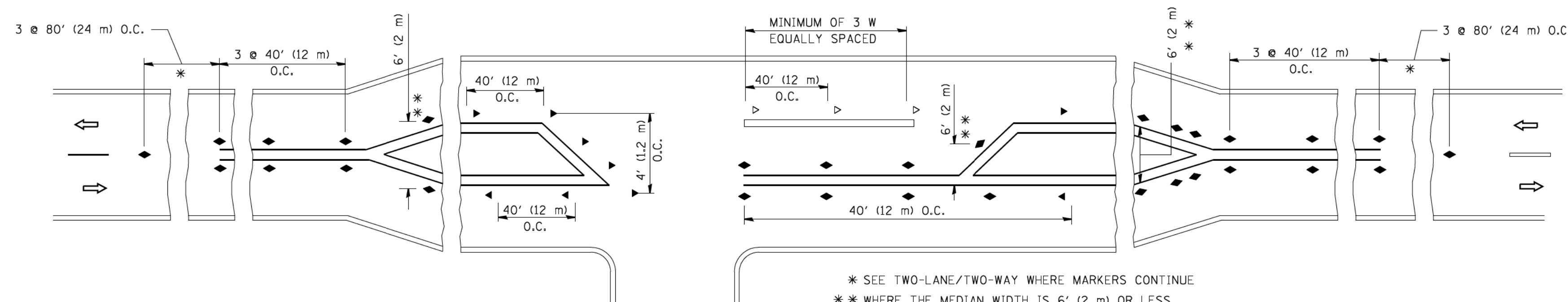
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- < ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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

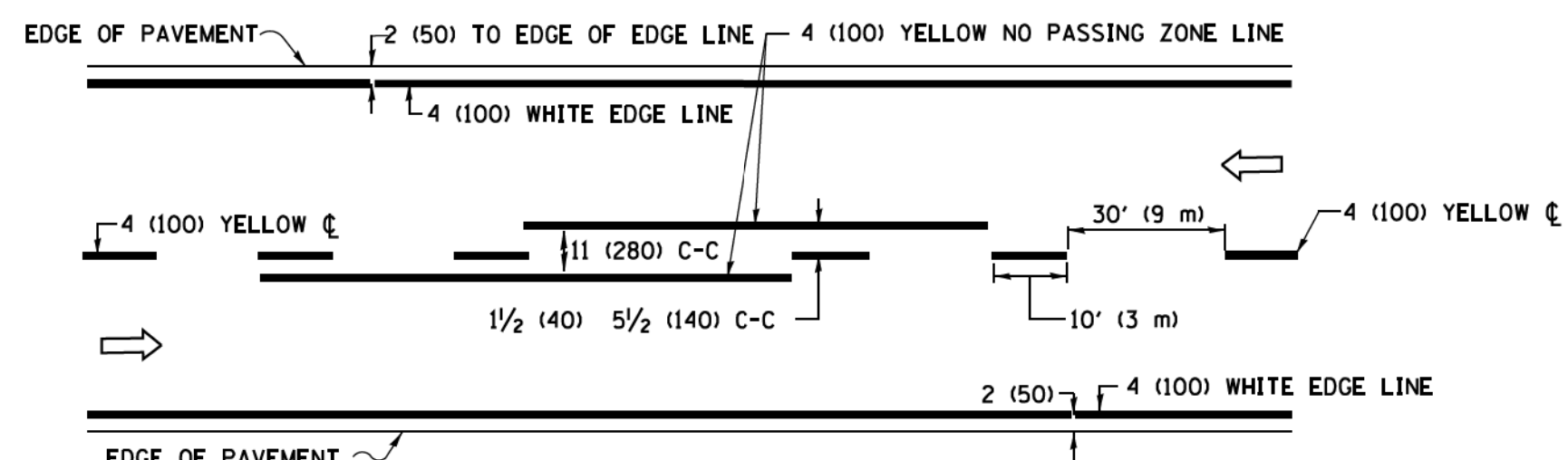
All dimensions are in inches (millimeters) unless otherwise shown.
 *F.A.P./E.A.U.

FILE NAME =	USER NAME = luyaa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
cs:\pw\work\pwsdot\luyaa\d0108315\to11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

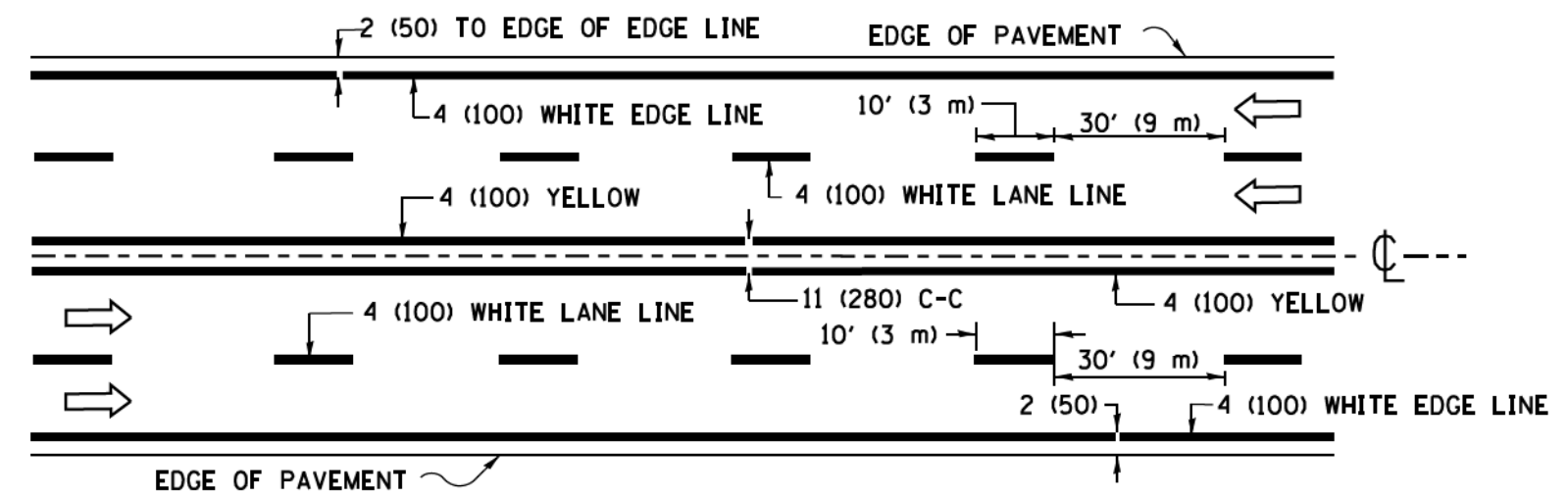
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS	
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

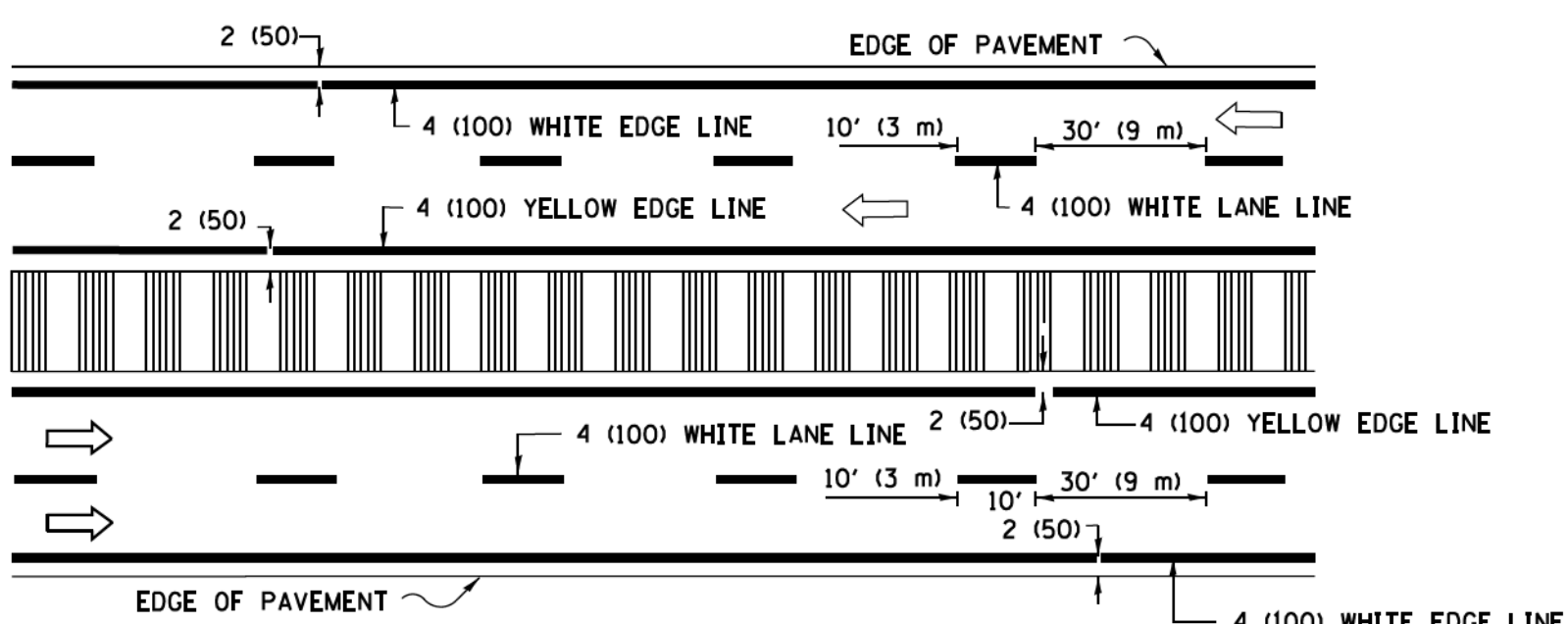
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305-0121	17-00125-00-CH	McHENRY	70	62
TC-11			CONTRACT NO. 61F23	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554				



2-LANE ROADWAY

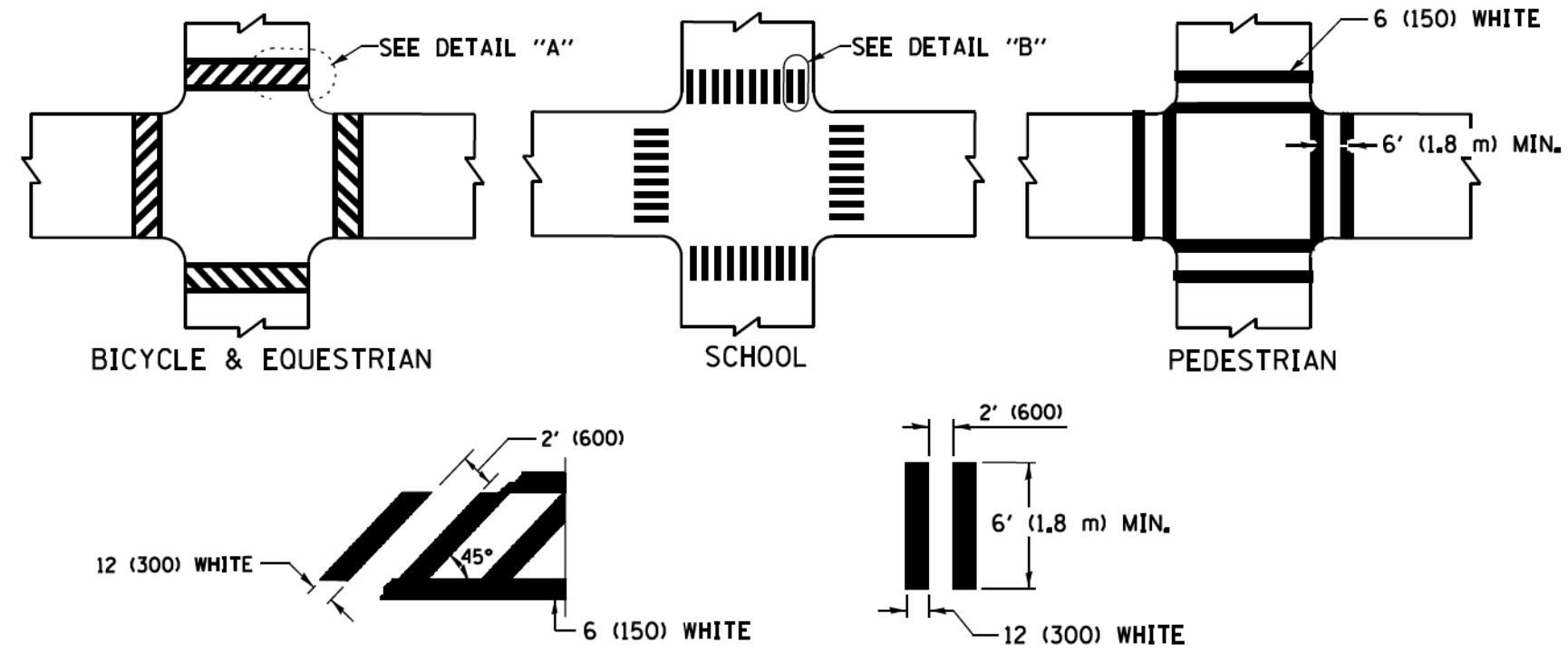


MULTI-LANE UNDIVIDED



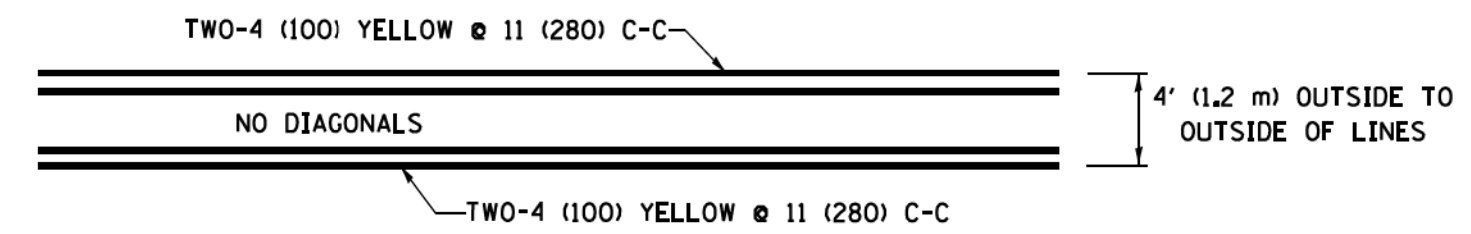
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

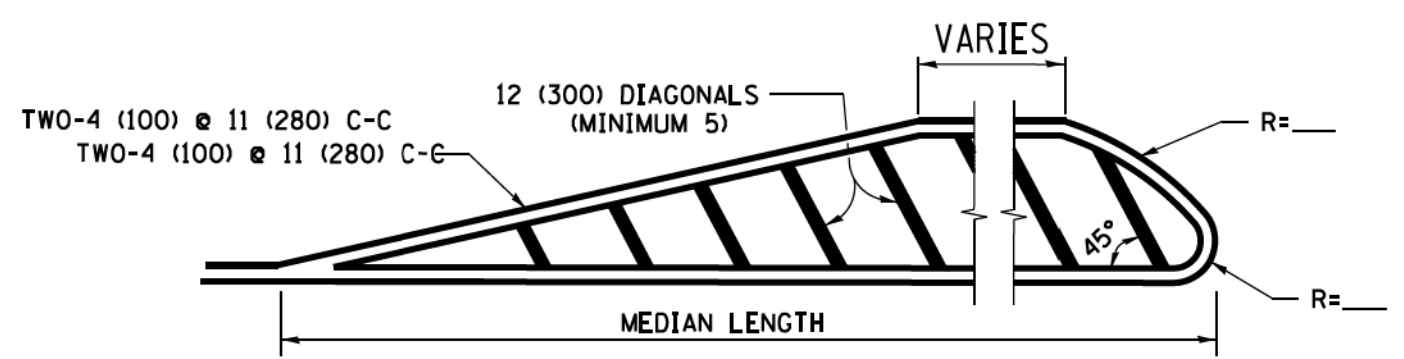


TYPICAL CROSSWALK MARKING

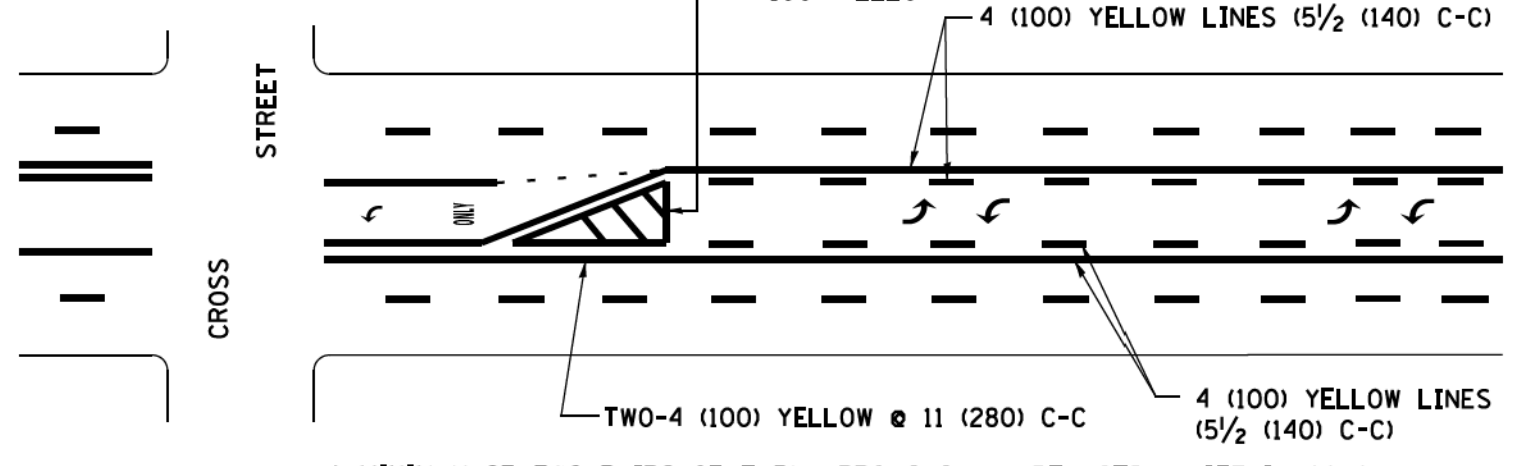
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



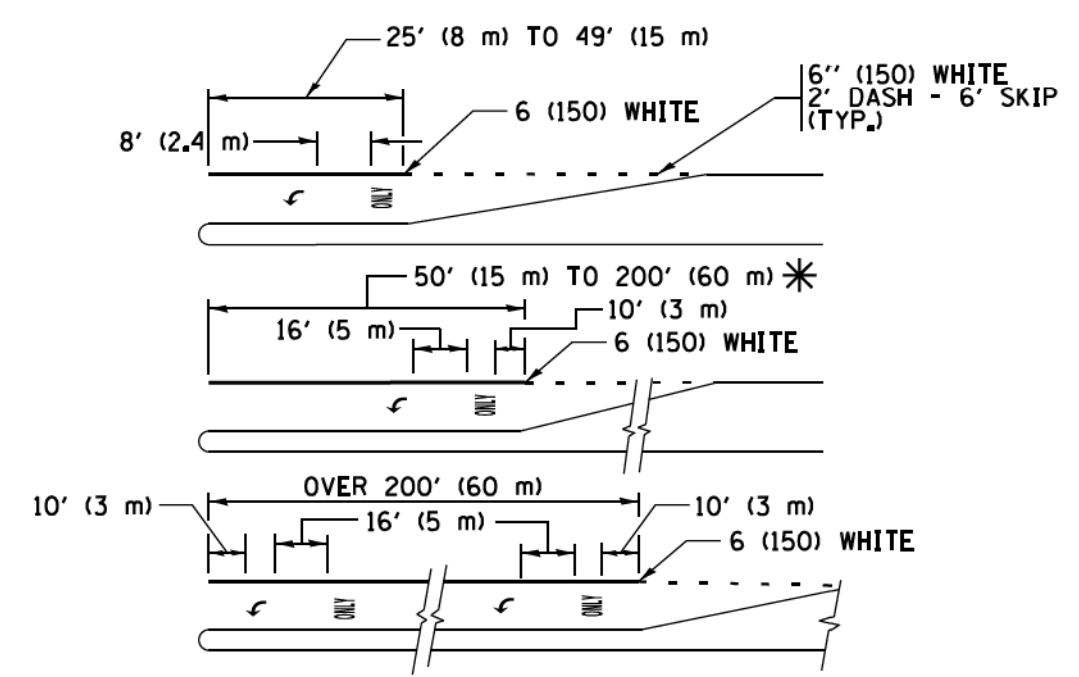
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



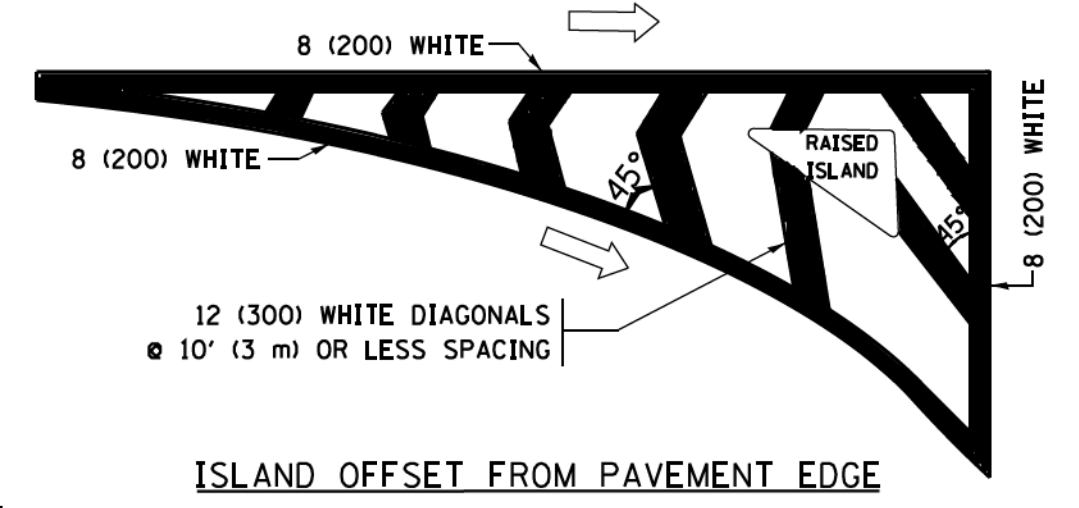
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



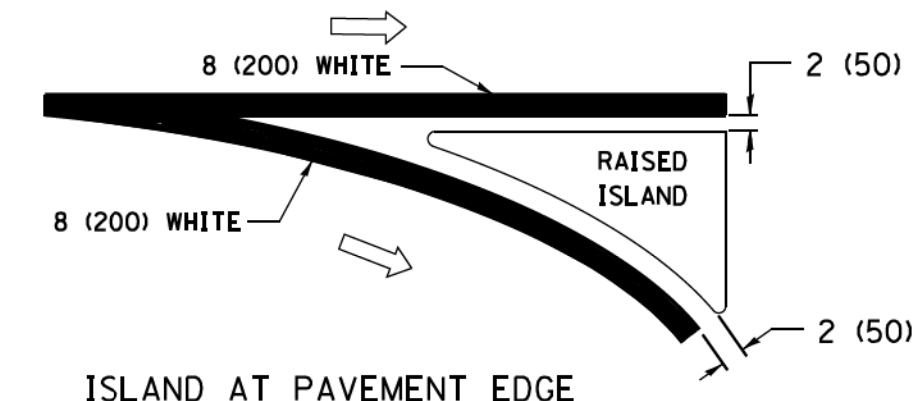
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

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

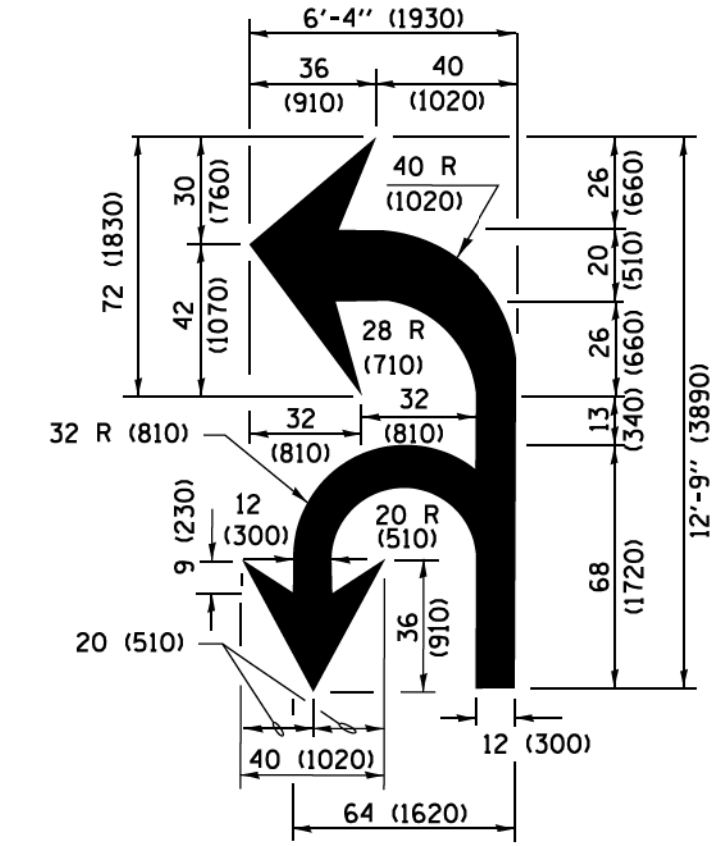
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



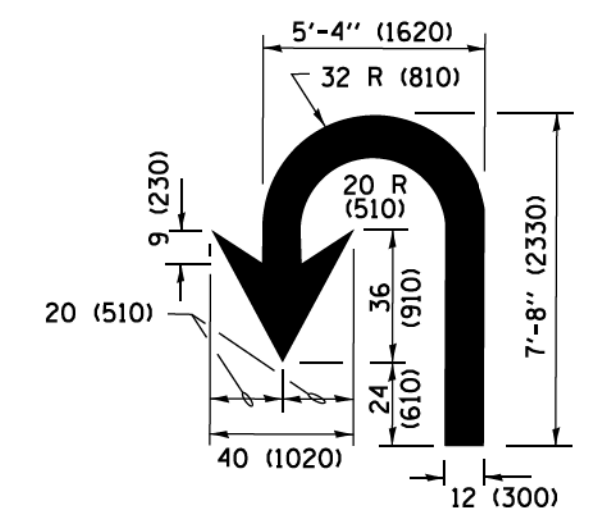
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

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

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

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

*F.A.P./E.A.U.

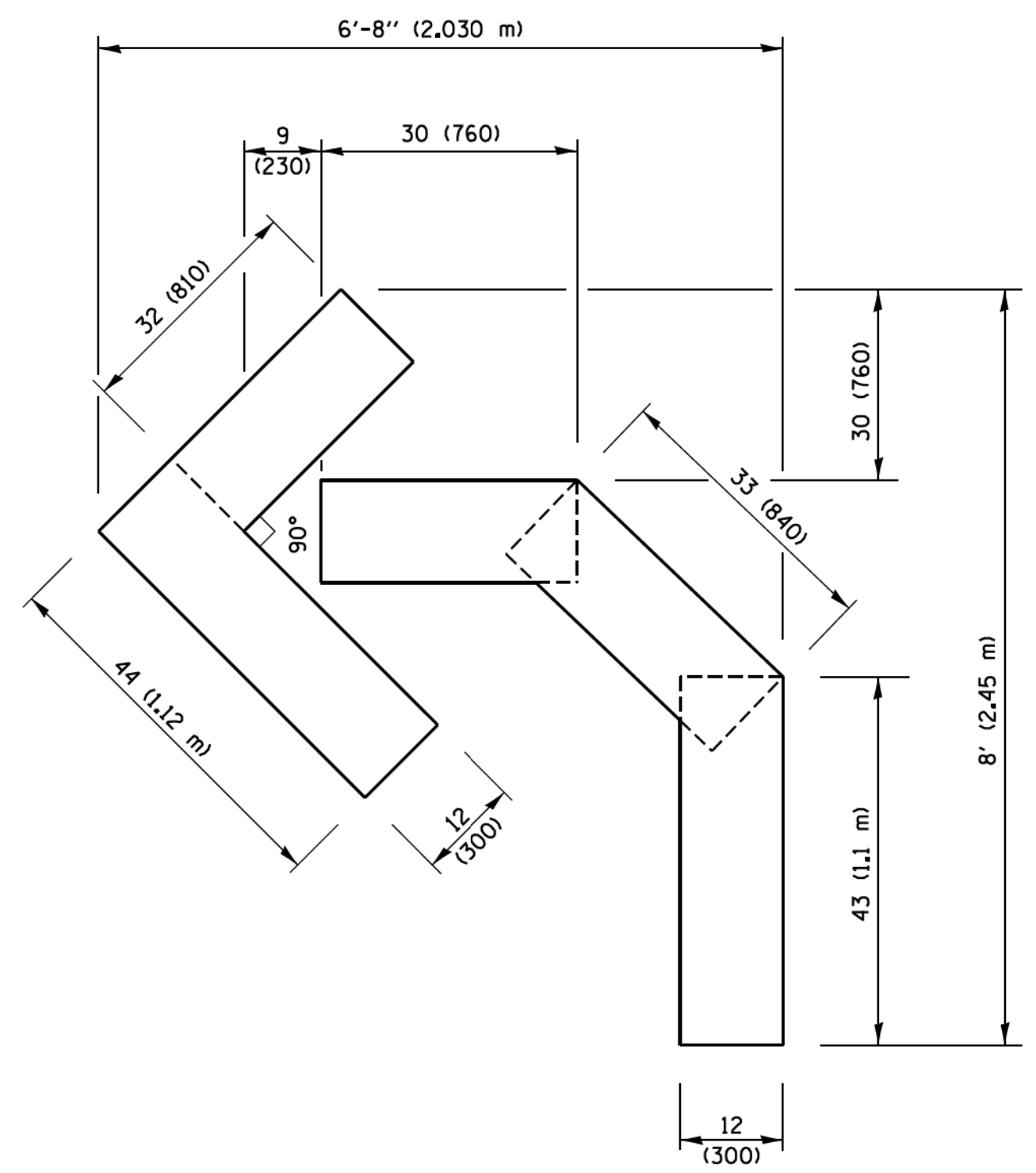
FILE NAME = W:\dststd\22x34\to13.dgn	USER NAME = luyaa	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
		DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 50,000' / 1" =	CHECKED -	REVISED - C. JUCIUS 12-21-15
Default	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

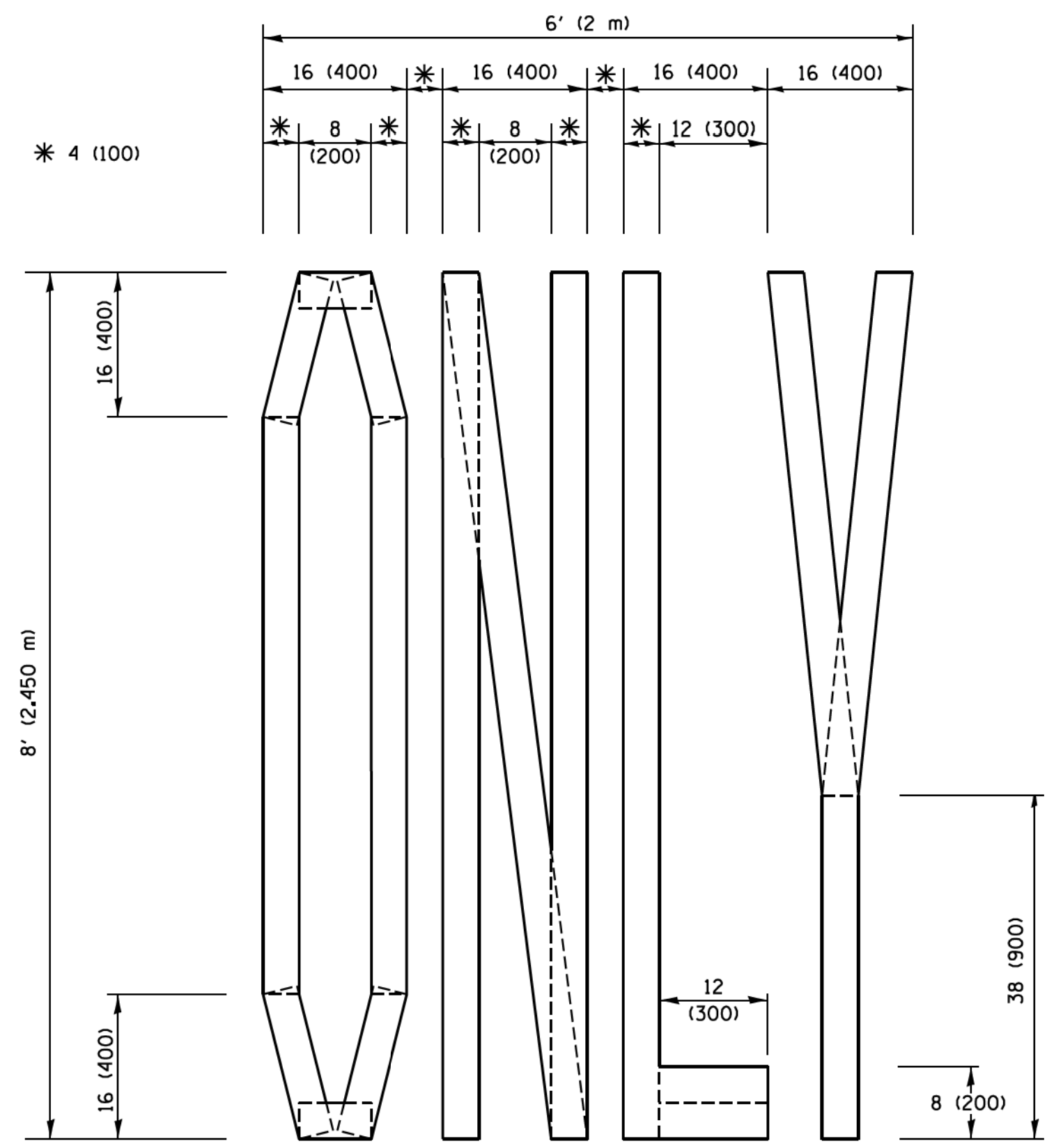
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

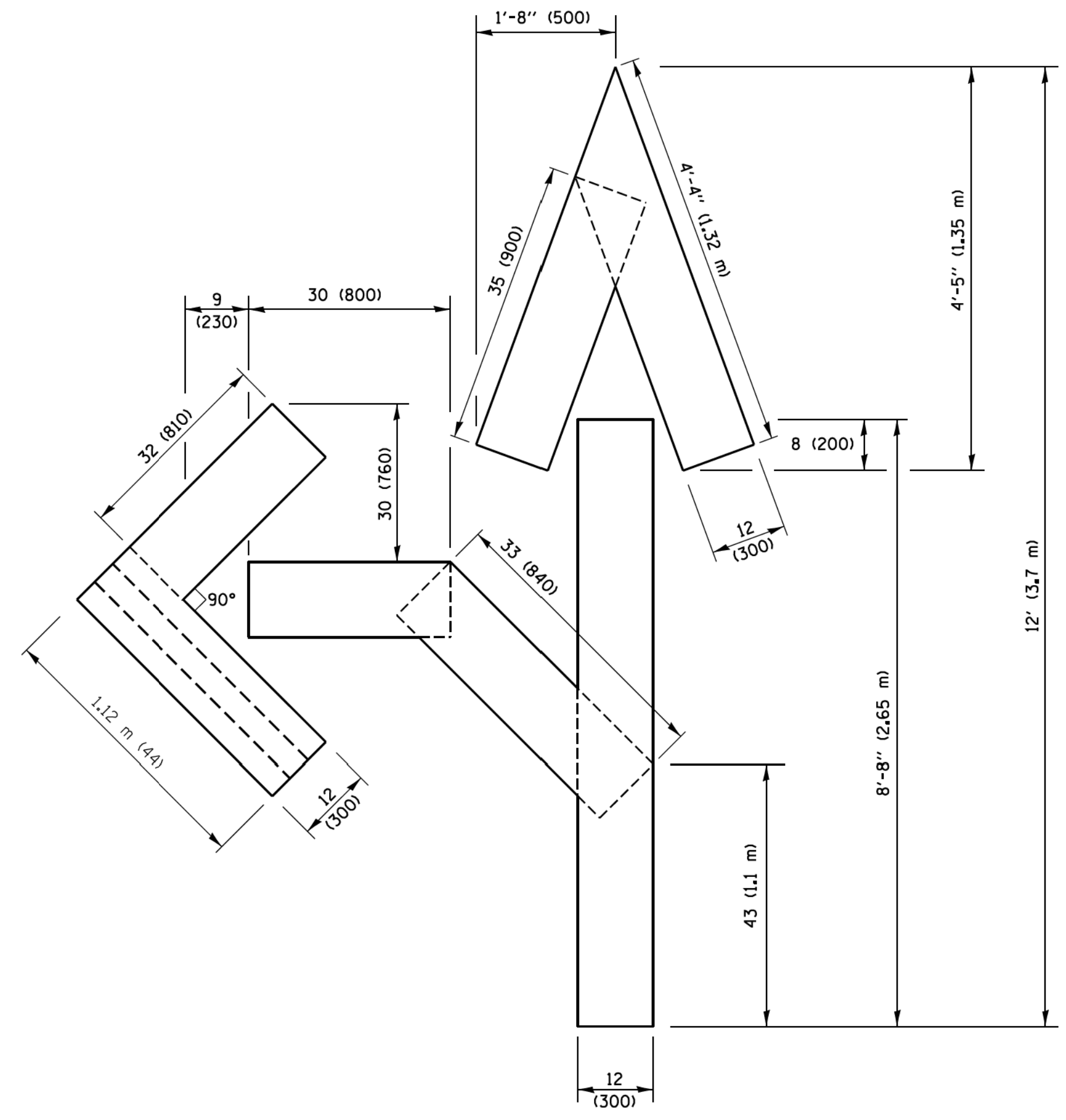
F.A. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 63
TC-13		CONTRACT NO. 61F23		
ILLINOIS FED. AID PROJECT OIK31554				



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

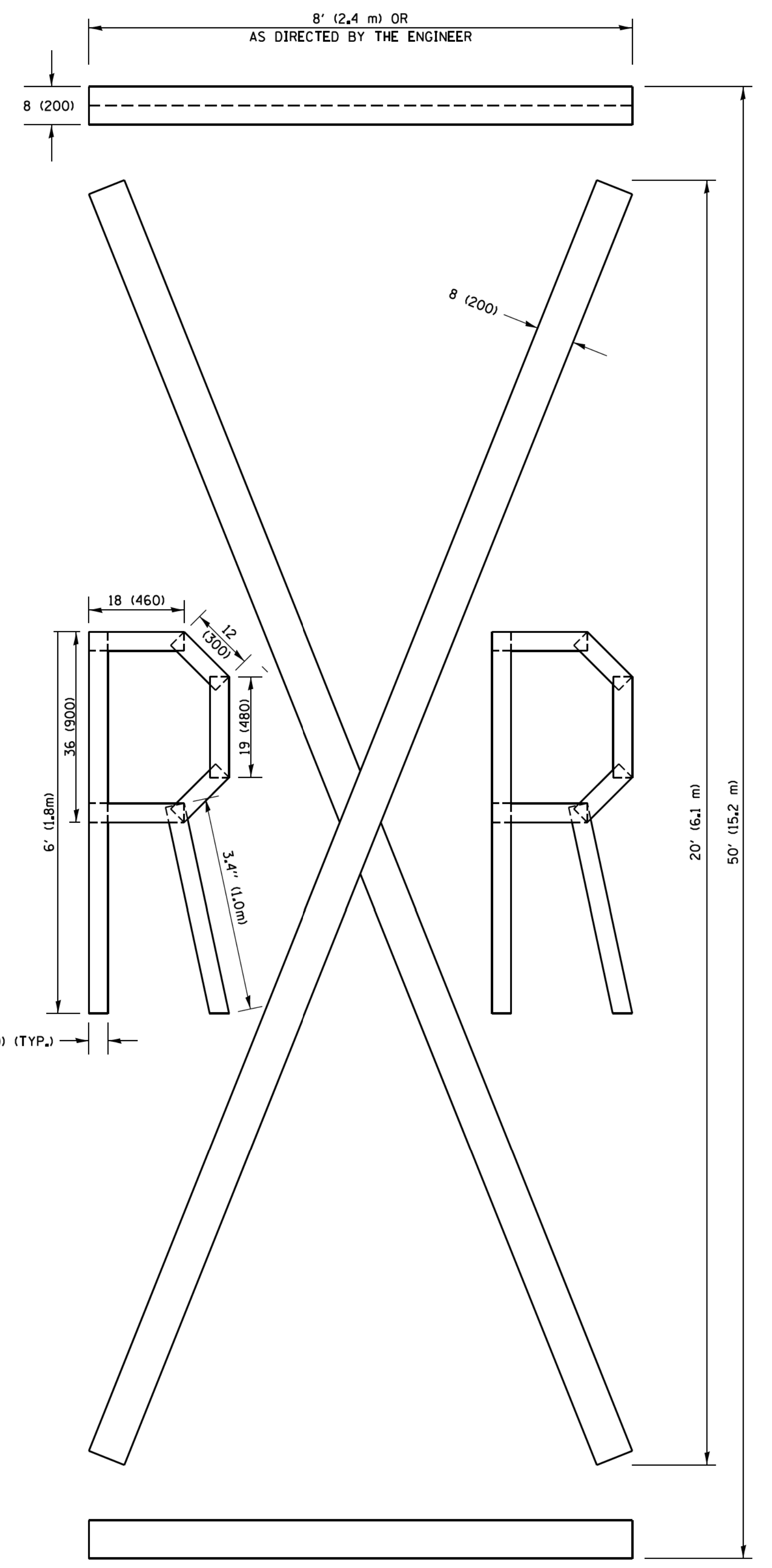


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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)

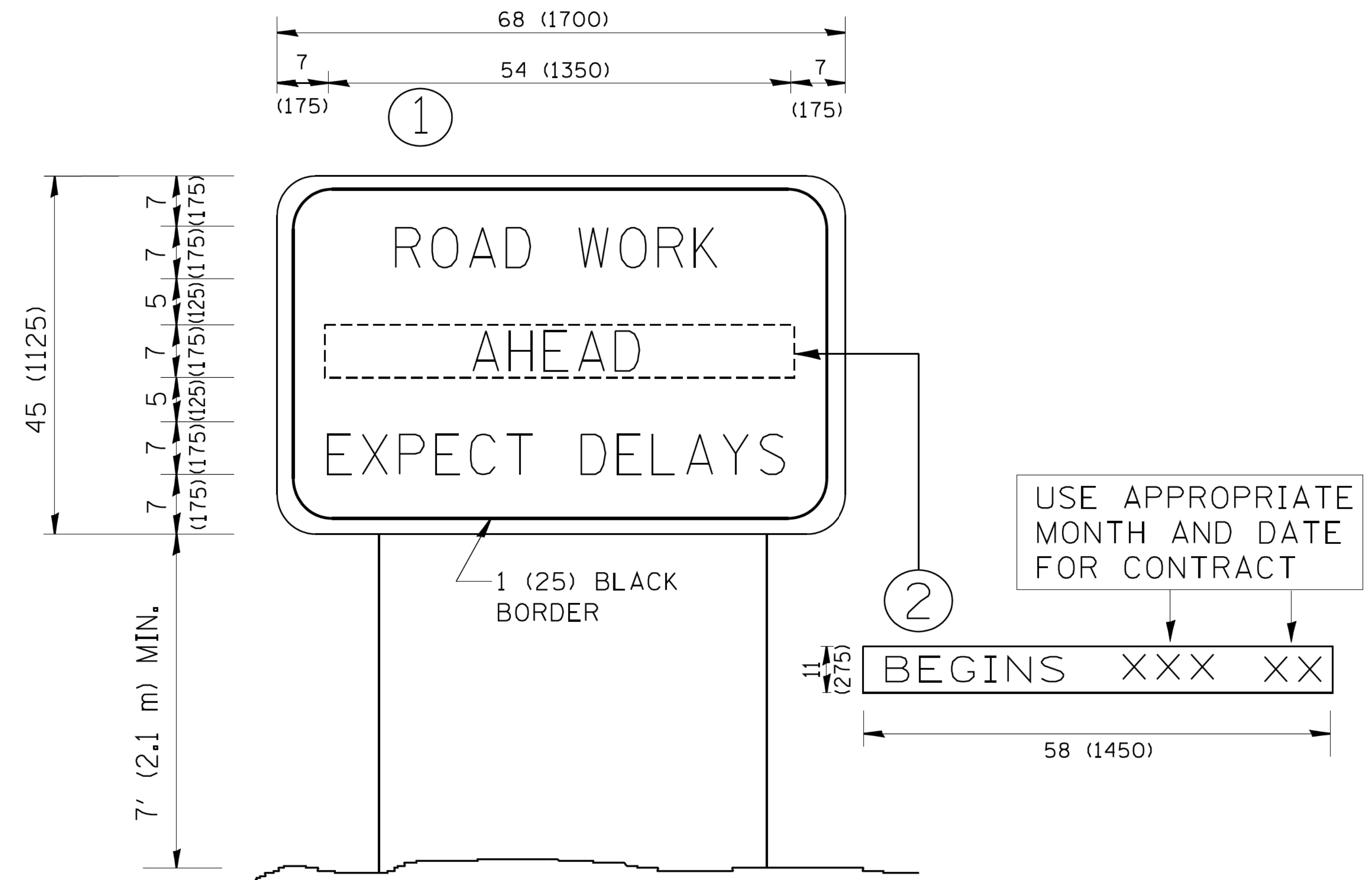
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
pw\ll084EBIDINTEG.111nois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\CADData\CADsheets\tc16.dgn		DRAWN -	REVISED - E. GOMEZ 08-28-00
		CHECKED -	REVISED - E. GOMEZ 08-28-00
		DATE -	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 64
TC-16		CONTRACT NO. 61F23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 01K31554				



NOTES:

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

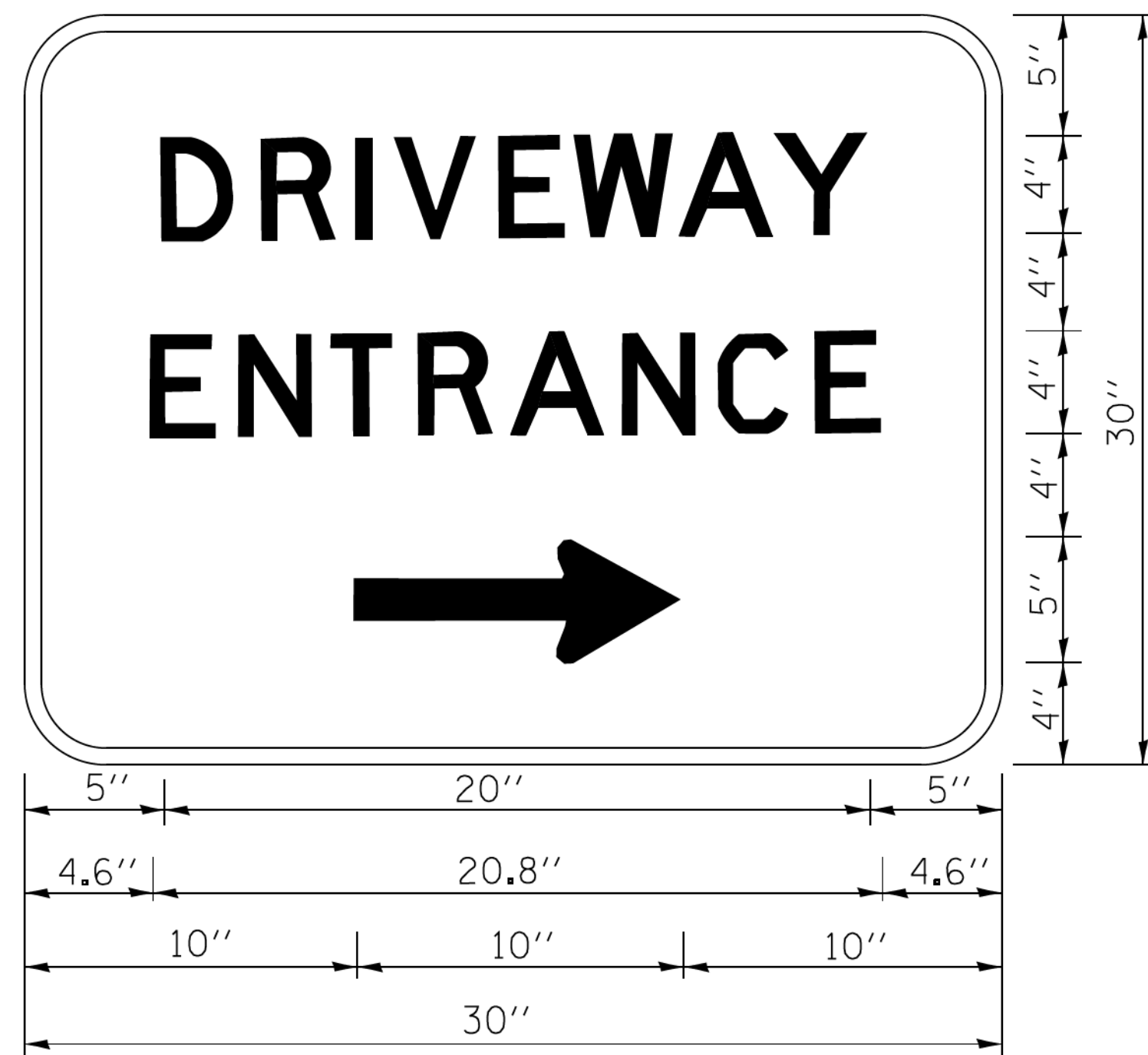
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglanoht	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	
PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 65
TC-22		CONTRACT NO. 61F23		
*F.A.P./F.A.U. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 01K31554				



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

NOTES:

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

*F.A.P./F.A.U.

FILE NAME =	USER NAME = gegl1enob1	DESIGNED -	REVISED - C. JUCIUS 02-15-07
ct\pwork\pwork\gagl1enob1\d0108315\to26.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

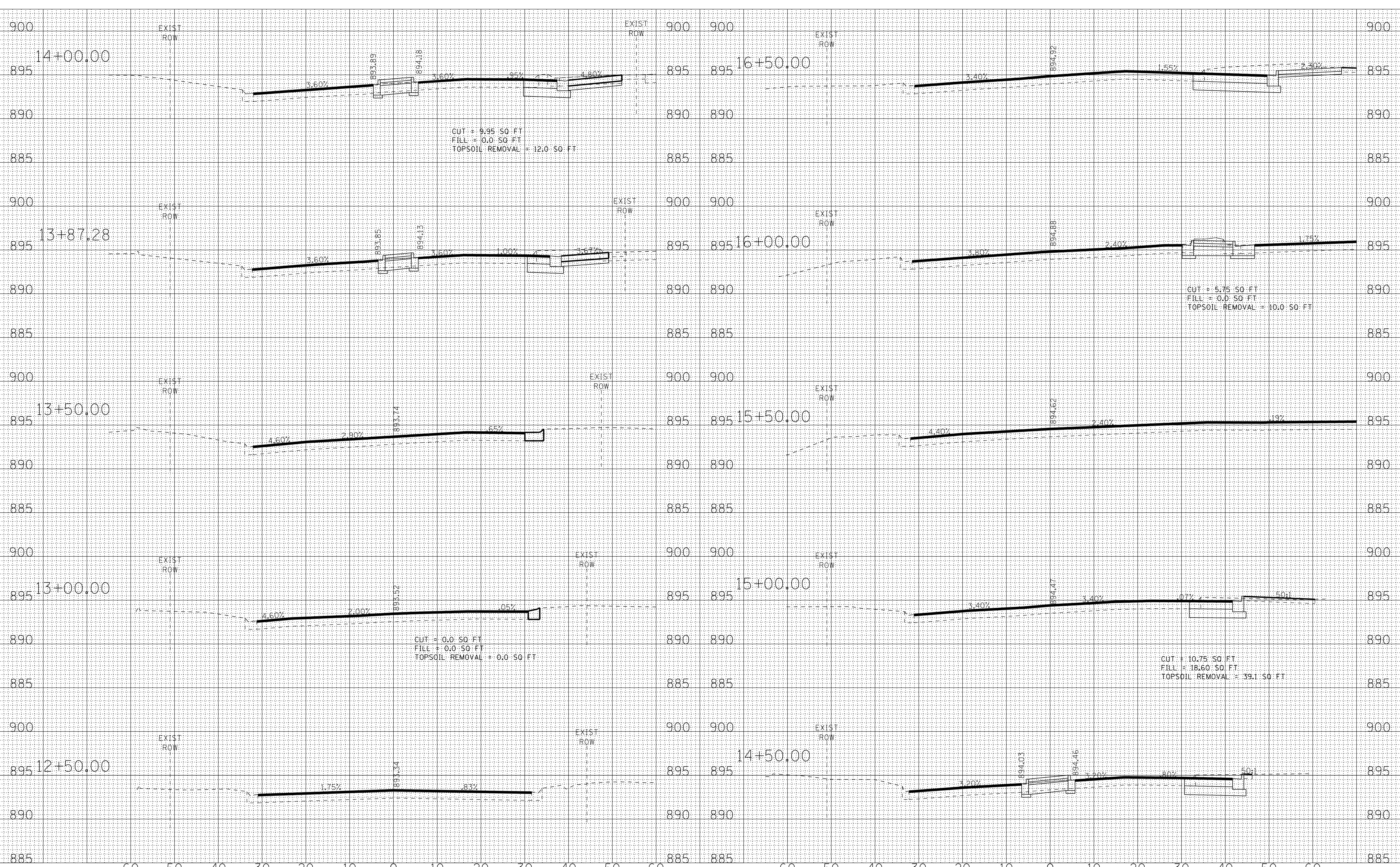
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305 0121	17-00125-00-CH	McHENRY	70	66
TC-26		CONTRACT NO. 61F23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT QIK31554				

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

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

MODEL: Default
 FILE NAME: I:\Cyril_Lake\CRYL170562-R_14 at Virginia\CAD\170562-310-3-14-14.dgn



BAXTER WOODMAN
 Consulting Engineers

USER NAME	= 560KAR
DESIGNED	- LJK
DRAWN	- UKB
PLOT SCALE	= 10.0000' / in.
PLOT DATE	= 11/8/2018

REVISD	-
REVISD	-
REVISD	-
REVISD	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: H	1"=10' V	1"=5'
SHEET	OF	SHEETS
STA.	12+50.00	TO STA. 16+50.00

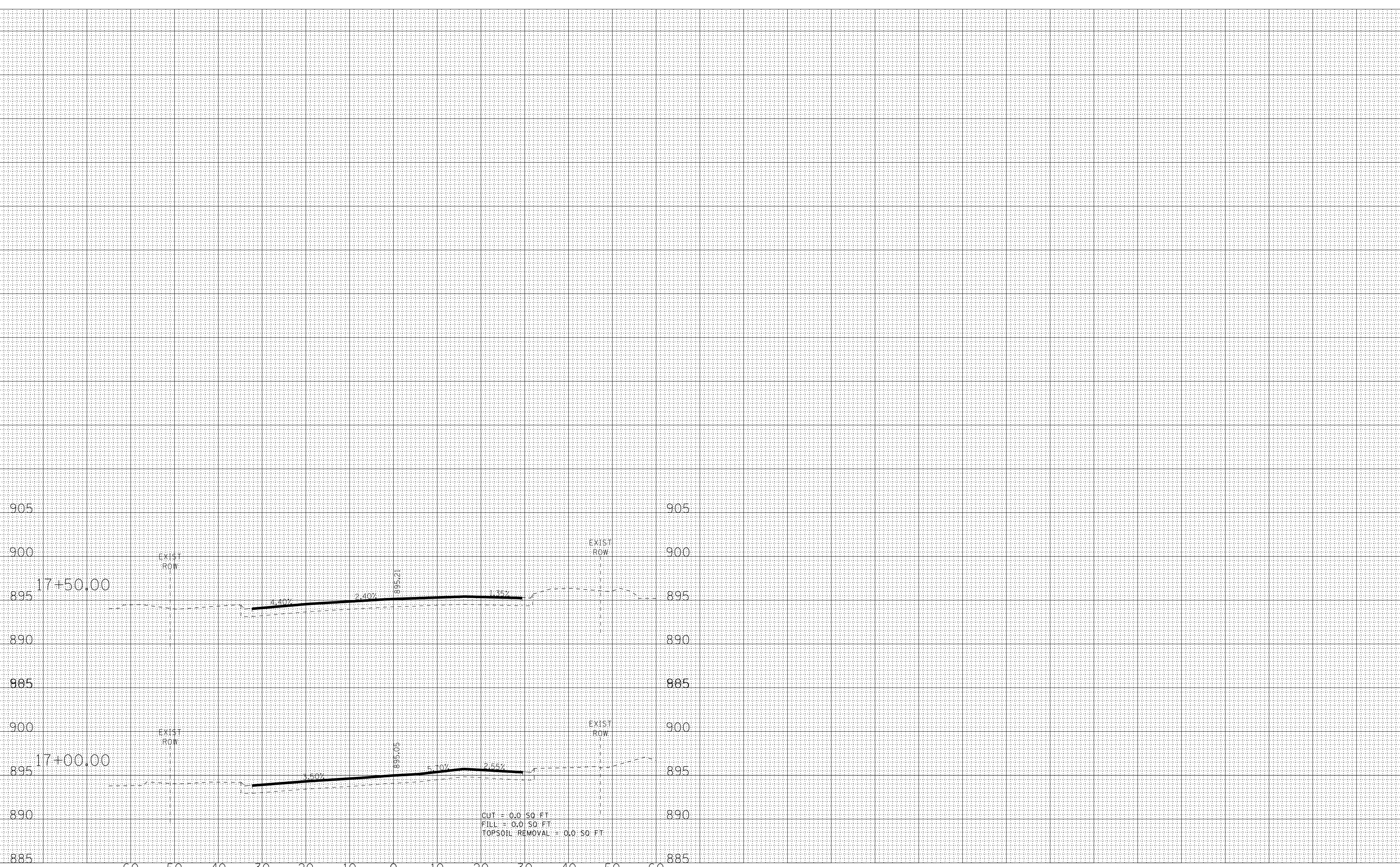
**CROSS SECTIONS
 US RTE 14 (NORTHWEST HWY)**

FAP/AML	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	17-00125-00-CH	MCHENRY	70	67
0121				
CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT 01K3(554)	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: Default
 FILE NAME: I:\Crystal Lake\CRYCL170652-R1_14_Virginia\CADD\17062-SIN-XS-R16 H.dgn



CUT = 0.0 SO. FT
 FILL = 0.0 SO. FT
 TOPSOIL REMOVAL = 0.0 SO. FT

BAXTER WOODMAN
 Consulting Engineers

USER NAME = 560KAR	DESIGNED - LJK	REVISED -
PLOT SCALE = 10.0000" / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE - 10-04-18	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 US RTE 14 (NORTHWEST HWY)

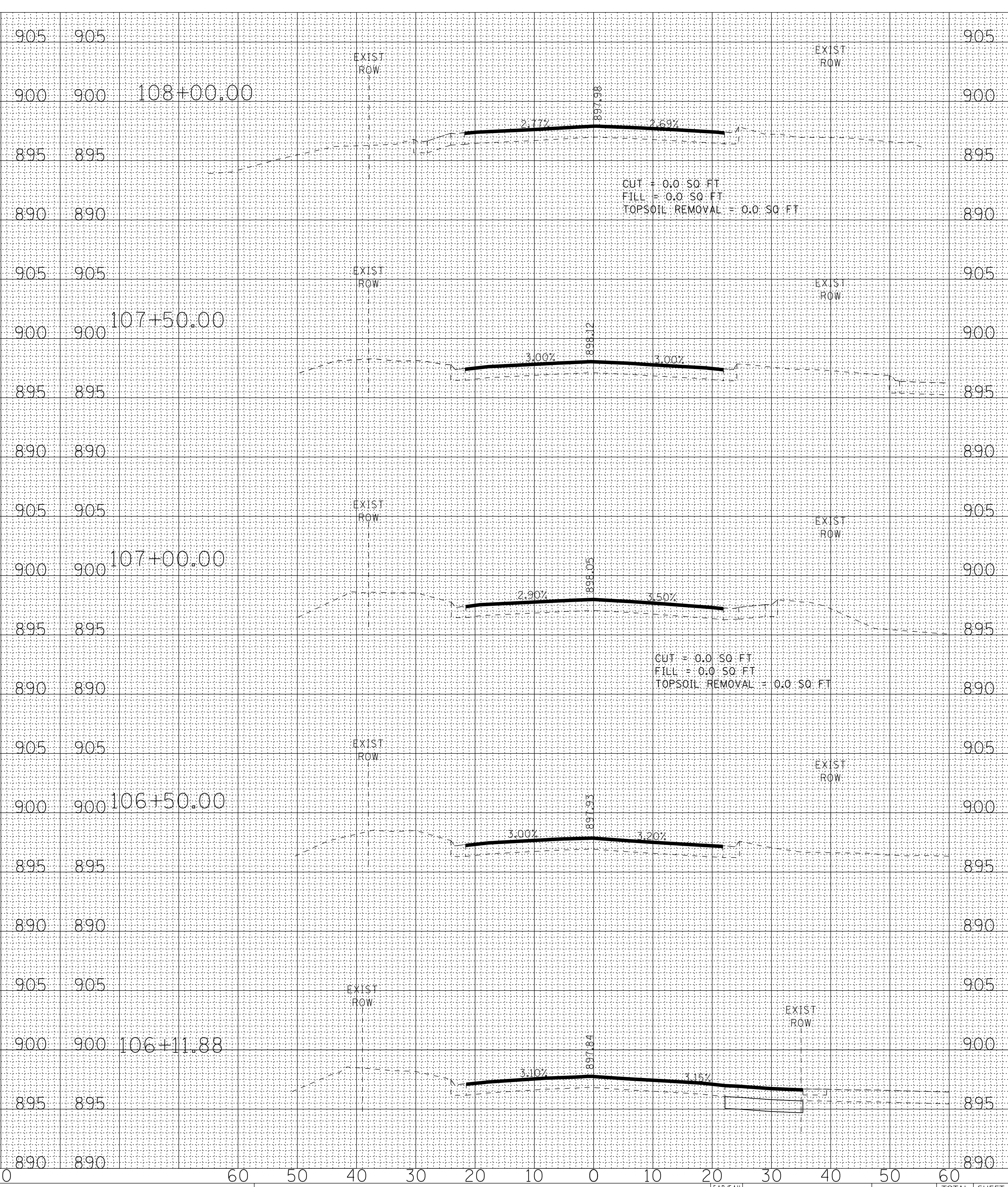
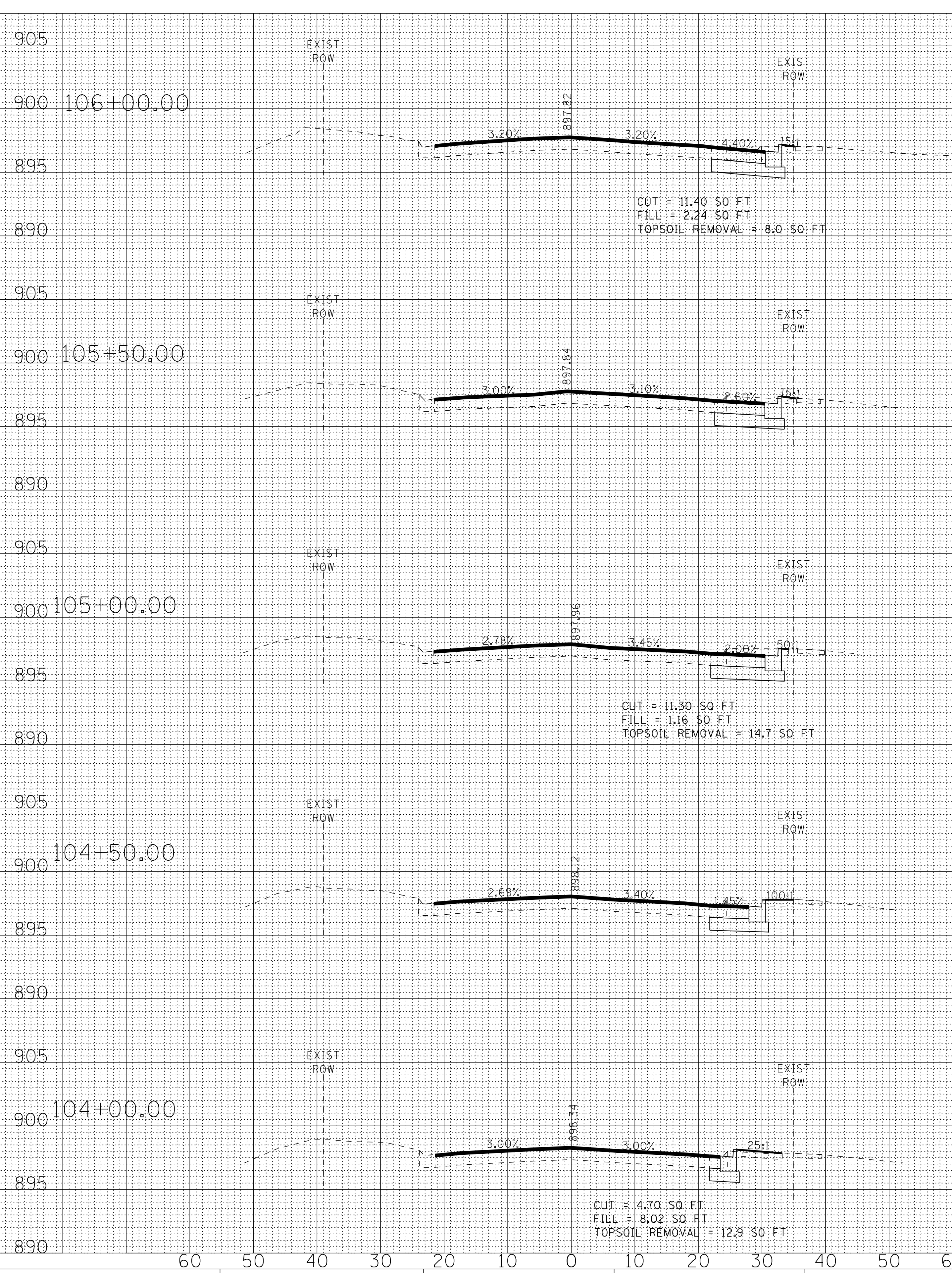
SCALE: H: 1"=10'; V: 1"=5' SHEET OF SHEETS STA. 17+00.00 TO STA. 17+50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17-00125-00-CH	MCHENRY	70	68
CONTRACT NO. 61F23			
ILLINOIS FED. AID PROJECT 01K3(554)			

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

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

MODEL: Default
 FILE NAME: I:\Cyril_Lake\CRYL17062-R_14 at Virginia\CAD\17062-3HT-AS-Virginia.Rd.dgn



BAXTER WOODMAN
 Consulting Engineers

USER NAME = 560KAR	DESIGNED - LJK	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - UKB	REVISED -
PLOT DATE = 11/8/2018	CHECKED - DJS	REVISED -
	DATE 10-04-18	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 VIRGINIA ROAD

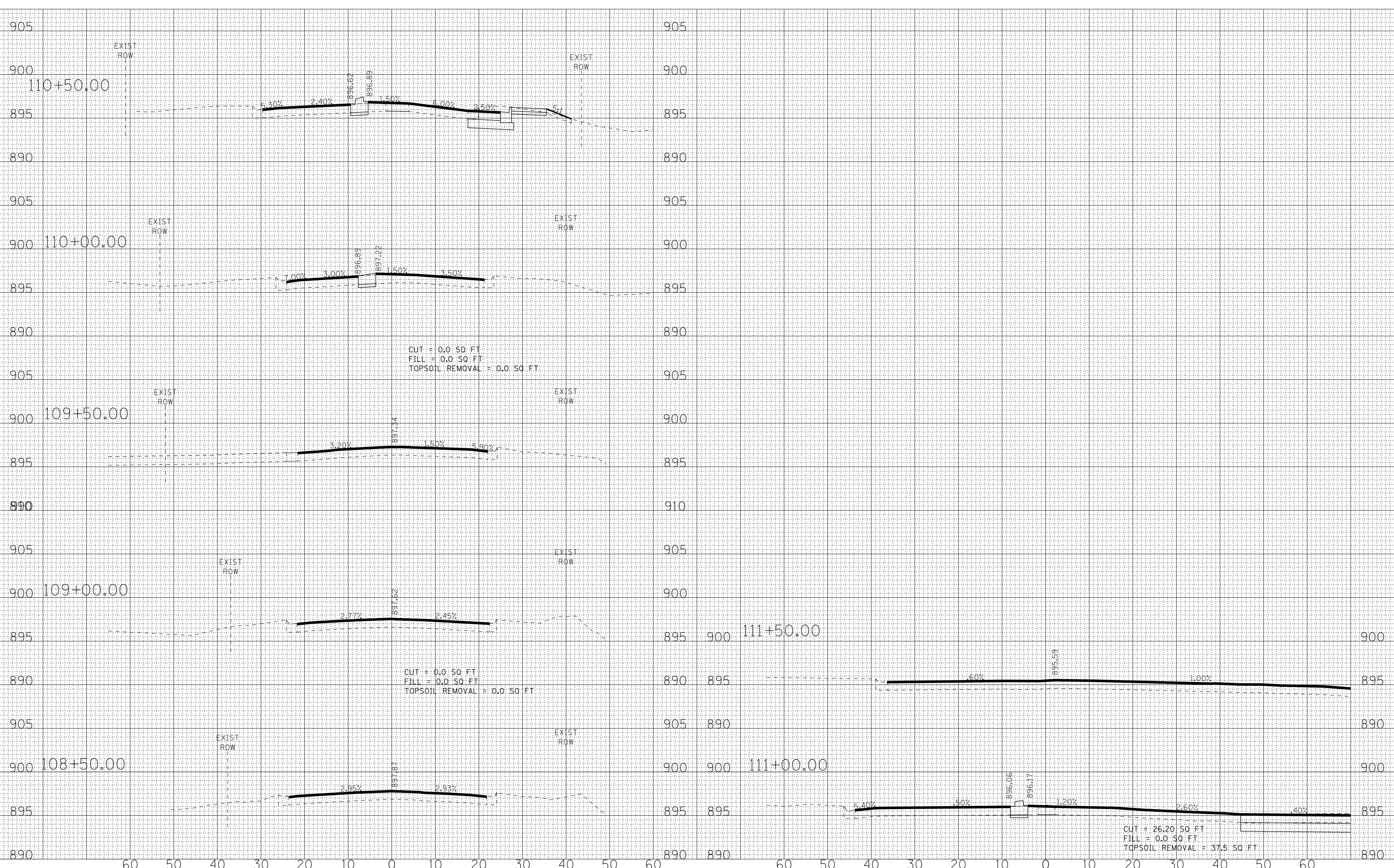
SCALE: H: 1"=10' V: 1"=5' SHEET OF SHEETS STA. 104+00.00 TO STA. 108+00.00

F.A.P./A.I.L. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 69
CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT 01K315541	

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

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

MODEL: Default
FILE NAME: I:\Crystal Lake\CRYLCT17065-R-14 at Virginia CADD\17062-5HT-AS-Virginia.Rd.dgn



USER NAME = 560KAR	DESIGNED - LJK	REVISED -
DRAWN - UKB	REVISIONS	
PLOT SCALE = 10.0000' / in.	CHECKED - DJS	REVISED -
PLOT DATE = 11/8/2018	DATE 10-04-18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: H: 1"=10' V: 1"=5'	SHEET	OF	SHEETS	STA. 108+50.00	TO STA. 112+00.00
---------------------------	-------	----	--------	----------------	-------------------

**CROSS SECTIONS
VIRGINIA ROAD**

F.A.P./A.U.I. 305 0121	SECTION 17-00125-00-CH	COUNTY MCHENRY	TOTAL SHEETS 70	SHEET NO. 70
CONTRACT NO. 61F23			ILLINOIS FED. AID PROJECT 01K3(554)	