

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	1
ILLINOIS			CONTRACT NO. 60J13	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE  
VILLAGE OF NORTHBROOK

DESIGN DESIGNATION

IL ROUTE 68 (DUNDEE ROAD)  
OTHER PRINCIPAL ARTERIAL

TRAFFIC DATA

2015 ADT = 34,600  
POSTED SPEED 45 MPH  
DESIGN SPEED 45 MPH

PROPOSED  
HIGHWAY PLANS

F.A.P. 343 IL ROUTE 68 (DUNDEE ROAD)  
SECTION NO: 30T-1  
AT MIDDLE FORK NORTH BRANCH CHICAGO RIVER  
PROJECT NO.: NHPP-BLGT(266)  
CULVERT REPLACEMENT, RETAINING WALL, AND PEDESTRIAN RAMPS  
COOK COUNTY  
C-91-185-10



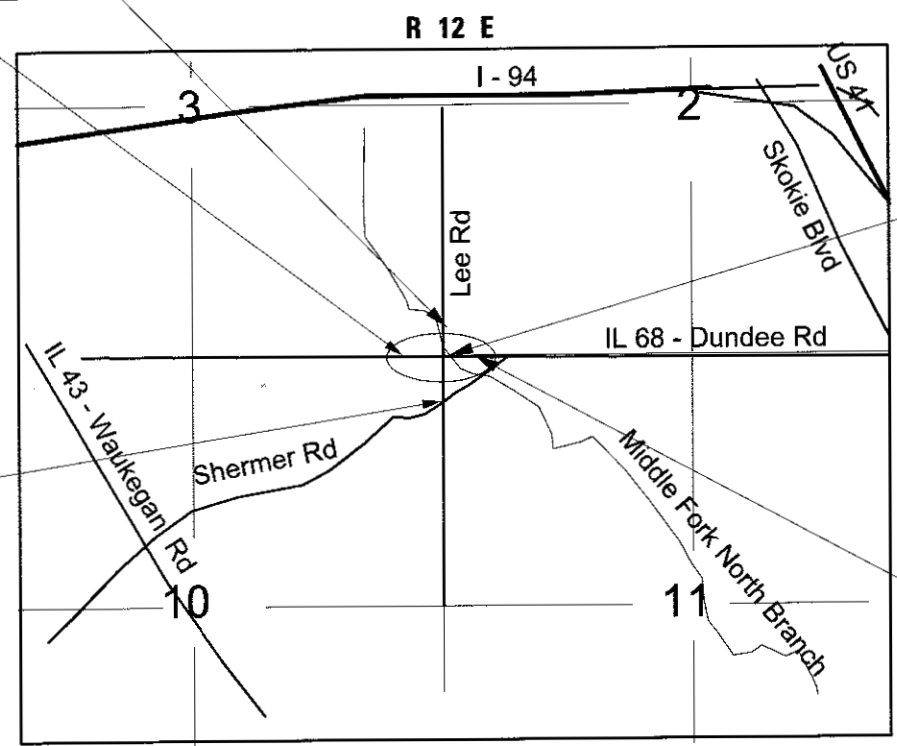
DATE: 6/23/2017  
EXPIRES: 11/30/2017



PROJECT LIMITS  
STA. 101 + 35 - LEE RD.

IMPROVEMENT BEGINS  
STA. 18 + 50 - IL 68

PROJECT LIMITS  
STA. 95 + 91.56 - LEE RD.



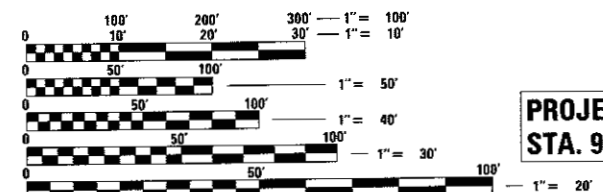
EXISTING SN 016-0813  
TO BE REMOVED

IMPROVEMENT ENDS  
STA. 23 + 50 - IL 68

CULVERT REPLACEMENT  
STA. 19 + 87  
EXIST. SN 016-0813

STA. 21 + 17.96  
PROP. SN 016-2842

RETAINING WALL REPLACEMENT  
PROP. SN 016-2821



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

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

PROJECT MANAGER: MATTHEW ROTHENBERG (847) 705-4230  
PROJECT ENGINEER: ALIX BRICE (847) 705-4552

CONTRACT NO. 60J13

**BLOOM**  
COMPANIES, LLC  
Infrastructure Innovation and Ingenuity

150 N. Wacker Drive  
Suite 1650  
Chicago, Illinois 60606  
Phone: (312) 876-9500  
Fax: (312) 876-9600

GROSS LENGTH = 500.00 FT. = 0.09 MILE  
NET LENGTH = 500.00 FT. = 0.09 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED June 30 20 17

Anthony A. Quinley / 903  
REGIONAL ENGINEER

Oct 13 20 17  
Maureen M. Addicks  
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 13 20 17  
Maureen M. Addicks 2  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

	1	COVER SHEET
	2	INDEX OF SHEETS AND HIGHWAY STANDARDS
	3	GENERAL NOTES AND COMMITMENTS
4	-	17 SUMMARY OF QUANTITIES
18	-	20 TYPICAL SECTIONS
21	-	24 SCHEDULE OF QUANTITIES
25	-	26 ALIGNMENT, TIES AND BENCHMARKS
	27	S.U.E.
	28	REMOVAL PLAN
29	-	32 SUGGESTED STAGES OF CONSTRUCTION
33	-	42 MAINTENANCE OF TRAFFIC
	43	DETOUR
44	-	53 TRAFFIC SIGNAL DETAILS
54	-	61 INTERCONNECT PLAN
62	-	63 PLAN & PROFILE
	64	INTERSECTION DETAILS
65	-	67 DRAINAGE & UTILITIES
68	-	69 DRAINAGE & UTILITIES SCHEDULES
70	-	72 EROSION CONTROL PLAN
73	-	75 PLAT OF HIGHWAYS
76	-	77 PAVEMENT MARKING & SIGNING
78	-	85 S.N. 016-2842 - CULVERT PLANS
86	-	95 S.N. 016-2821 - RETAINING WALL PLANS
96	-	99 FLOODWAY COMPENSATORY CHAMBER
100	-	104 BORING LOGS
105	-	106 IL 68 PH I CROSS SECTIONS
107	-	111 IL 68 PH II CROSS SECTIONS
112	-	113 LEE RD CROSS SECTIONS
114	-	118 NORTHBROOK PLANS
119	-	123 MWRD PLANS
124	-	128 EXISTING PLANS
129	-	140 STANDARD DETAILS

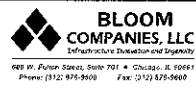
**DISTRICT DETAILS**

BD - 03	OUTLET FOR CONCRETE CURB AND GUTTER
BD - 08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD - 32	BUTT JOINT AND HMA TAPER DETAILS
BD - 34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL
TC - 10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC - 11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLow RESISTANT)
TC - 13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC - 14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN)
TC - 16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC - 21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC - 22	ARTERIAL ROAD INFORMATION SIGN
TC - 26	DRIVEWAY ENTRANCE SIGNING
TS - 03	HANDHOLE TO INTERCEPT EXISTING CONDUIT
TS - 05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (INCLUDED WITH TRAFFIC SIGNAL PLANS SHEETS)

**HIGHWAY STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-10	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS, 15' (375mm) THRU 84" (2100mm) DIA.
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	SUB-SURFACE DRAINS
601101-02	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN, TYPE A
602301-04	INLET - TYPE A
602401-64	MANHOLE, TYPE A
602406-08	MANHOLE TYPE A 6'(1.8m) DIAMETER
602416-08	MANHOLE TYPE A 8' (2.4m) DIAMETER
602421-08	MANHOLE TYPE A 9' (2.7m) DIAMETER
602501-03	VALVE VAULT TYPE A
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604021-03	BASE, FRAME AND LIDS TYPE 5
604036-03	GRATE TYPE 8
604061-03	FRAME AND GRATE TYPE 12
604101-01	MEDIAN INLET FOR 24" (600mm) REINFORCED CONCRETE PIPE
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
635001-02	DELINEATORS
720001-01	REFLECTOR AND TERMINAL MARKER PLACEMENT
720006-04	REFLECTOR MARKER AND MOUNTING DETAILS
720011-01	CHAIN LINK FENCE
664001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701006-05	OFF-ROAD OPERATIONS MOVING OPERATIONS, 2W, 2L, DAY ONLY
701011-04	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701106-02	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701301-04	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701311-03	LANE CLOSURE, MULTILANE DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
701421-08	LANE CLOSURE MULTI-LANE 45 - 55 MPH
701422-10	LANE CLOSURE, MULTILANE DAY INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
701426-09	OPERATIONS, FOR SPEEDS > 45 MPH
701427-05	LANE CLOSURE, MULTILANE DAY INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS < 40 MPH
701431-13	LANE CLOSURE MULTI-LANE UNDIVIDED WITH CROSSOVER 45 - 55 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701602-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME = F:\3-17-06-IL-68-VORWALLS-0405\Sheets\01BSP10-gh-t.stm\csh.dgn



USER NAME = jandrews	DESIGNED - MMQ	REVISED -
	DRAWN - BL	REVISED -
PLT SCALE = 2,0000' / 1" =	CHECKED - MMQ	REVISED -
PLT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS &  
HIGHWAY STANDARDS**

SCALE: NA SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T - 1	COOK	140	2
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JANUARY 1, 2017; THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS; THE DETAILS ON THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL JULIE AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES.

ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. REDUCED SIZE PLANS CAN BE PRINTED TO SCALE FOR USE IN THE FIELD.

BENCHMARKS FOR THE PROJECT ARE DESCRIBED IN THE PLANS. ALL BEARINGS AND COORDINATES REFERENCED IN THE PLAN DRAWINGS AND ALL CONTROL COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2007). ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

IN COMPLIANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (I.E.P.A), FOR A CONSTRUCTION PROJECT WHICH DISTURBS ONE ACRE OR MORE TOTAL LAND AREA, THE CONTRACTOR SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN AS CONTAINED IN THE CONTRACT DOCUMENT.

NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.

PORTABLE/CHANGEABLE ELECTRONIC MESSAGE BOARDS SHALL BE USED IN ADVANCE OF THE PROJECT ACCORDING TO IDOT STANDARDS AND SHALL BE IN PLACE A MINIMUM OF 72 HOURS PRIOR TO COMMENCING THE WORK, AND REMAIN THROUGHOUT THE ROADWAY CONSTRUCTION WORK. CONSTRUCTION TRAFFIC SHALL OBEY ALL LOAD POSTING LIMITS ON ALL HAUL ROADS.

WARNING SIGNS (OVERHEAD ELECTRIC) SHALL BE PLACED AT LOCATIONS OF OVERHEAD ELECTRIC LINES CROSSING THE ROADWAY. SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEMS OF WORK BEING PERFORMED.

WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL USE THE FOLLOWING METHOD TO ALLAY DUST AND PREVENT A NUISANCE WITHIN THE LIMITS OF THE CONSTRUCTION SITE. DUST SHALL BE CONTROLLED BY THE UNIFORM APPLICATION OF SPRINKLED WATER AND SHALL BE APPLIED ONLY WHEN DIRECTED BY THE ENGINEER, IN A MANNER MEETING HIS APPROVAL. CALCIUM CHLORIDE SHALL NOT BE USED FOR THIS PURPOSE. ALL EQUIPMENT USED FOR THIS WORK SHALL MEET WITH THE ENGINEER'S APPROVAL. THIS WORK SHALL CONSIST OF THE EXCLUSIVE CONTROL OF DUST RESULTING FROM CONSTRUCTION OPERATIONS AND IS NOT INTENDED FOR USE IN THE COMPACTION OF EARTH EMBANKMENTS, AS SPECIFIED UNDER ARTICLE 205.06 OF THE STANDARD SPECIFICATIONS. NO EXTRA COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR THIS WORK.

THE CONTRACTOR SHALL KEEP EXISTING ADJACENT STREETS CLEAN OF DIRT, MUD AND OTHER DEBRIS AND, WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS OR WHEN DIRECTED BY THE ENGINEER. NO EXTRA COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR THIS WORK.

THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND ANY SURPLUS MATERIAL SHALL BE REMOVED AND RESTORATION SHALL PROCEED AS THE WORK PROCEEDS. IF THE ENGINEER SO DIRECTS, THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN-UP. DEBRIS AND SURPLUS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE DISPOSAL AREA.

EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE LOCAL AGENCIES, OWNERS, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS.

THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. THE COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCLUDED IN THE CONTRACT.

THE RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, ARTERIAL TRAFFIC FIELD MANAGER AT cory.jucius@illinois.gov A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE CONTRACTOR SHALL CONTACT THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARDS SPECIFICATIONS.

THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

TEMPORARY FENCE SHALL BE ERECTED ALONG THE DRIP LINE OF EXISTING TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTIONS. THE RESIDENT ENGINEER SHALL INSPECT AND APPROVE THE PLACEMENT OF ALL TEMPORARY FENCING PRIOR TO CONSTRUCTION. AFTER TREES ARE SAFELY FENCED, NOTHING IS TO BE STORED, DRIVEN OR DISTURBED INSIDE THE FENCE. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES TO PREVENT THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXCAVATION IS WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING OF TREES SHOULD BEGIN IMMEDIATELY AFTER ROOT PRUNING OF THE TREES HAS OCCURRED. TREE PRUNING AND SUPPLEMENTAL WATERING AS DIRECTED BY THE ENGINEER WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

ALL EXCESS MATERIAL (BROKEN CONCRETE, CULVERT PIPE, WASTE ROADWAY EXCAVATION, SURPLUS MATERIAL, ETC.) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL MAKE ALL FULL DEPTH SAW CUTS REQUIRED FOR THE REMOVAL OF PAVEMENTS, CONCRETE CURB AND GUTTERS, SIDEWALKS AND DRIVEWAYS AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER. THE COST SHALL BE CONSIDERED INCLUDED IN THE COST FOR REMOVAL OF THE SPECIFIED ITEM IN THE CONTRACT.

PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATION AND STANDARD 601001.05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

METHOD 3 SPECIFIED IN ARTICLE 550.07(C) OF THE SSRBC FOR TRENCH BACKFILL COMPACTION WILL NOT BE ALLOWED.

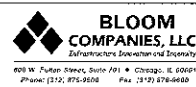
THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM AXLE TRUCK. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLE AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. BOUNDARIES OF THE IN-STREAM WORK AREA ARE SUBJECT TO ADJUSTMENT BY THE USACE AND THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTING THE PROJECT. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE/USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.5.a AND b OF THE SWPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PROCESS OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR SHALL INFORM COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (CCDOH) DESIGN ENGINEER AT 312-603-1734 PRIOR TO START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIFTEEN (15) WORKING DAYS OR TWENTYONE (21) CALENDAR DAYS ADVANCE NOTICE IS REQUIRED.

FILE NAME = FA\_3-1296\_IL\_SRDREN1005\_C0005sheets\_V010010-010-010-010.dgn



USER NAME = jandrews  
 PLOT SCALE = 2.0000' / 1" =  
 PLOT DATE = 8/25/2017

DESIGNED - MMW  
 DRAWN - BL  
 CHECKED - MMW  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & COMMITMENTS

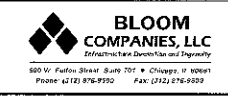
SCALE: NA SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T - 1	COOK	140	3
				CONTRACT NO. 60J13
ILLINOIS FED. AID PROJECT				

0010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% LOCAL	100% LOCAL	
				ROADWAY	RETAINING WALL	BOX CULVERT	MINOR STR	NORTHBROOK	MWRD	
				0004	0040	0003	0040	0043	0043	
URBAN	S. N. 016-2281	S. N. 016-2842	NONE	URBAN	URBAN					
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1106	1106						
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	380	380						
20101000	TEMPORARY FENCE	FOOT	1340	1340						
20200100	EARTH EXCAVATION	CU YD	1900	1900						
20300100	CHANNEL EXCAVATION	CU YD	1470	1470						
20700220	POROUS GRANULAR EMBANKMENT	CU YD	175.4		158		17.4			
20800150	TRENCH BACKFILL	CU YD	2522.5	1951.5				571		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	451	451						
25000210	SEEDING, CLASS 2A	ACRE	0.56	0.56						
25000310	SEEDING, CLASS 4	ACRE	0.04	0.04						
25000314	SEEDING, CLASS 4B	ACRE	0.12	0.12						
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	56	56						
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	56	56						
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	56	56						
25100630	EROSION CONTROL BLANKET	SQ YD	2144	2144						

FILE NAME: F:\31256 IL BR\ADMIN\5\CA05\Sheet\018650-01-501.dwg



USER NAME = jandrews	DESIGNED - MMQ	REVISED -
PLOT SCALE = 2,0000' / 1" =	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MMQ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: N.T.S.	SHEET 1	OF 14 SHEETS	STA. TO STA.

F.A.P. RTE. 343	SECTION 30T-1	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 4
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE MINOR STR	100% LOCAL NORTHBROOK	100% LOCAL MWRD	
				0004 URBAN	0040 S. N. 016-2281	0008 S. N. 016-2842	0040 NONE	0043 URBAN	0043 URBAN	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1399	1399						
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	142	142						
28000315	AGGREGATE DITCH CHECKS	TON	24	24						
28000400	PERIMETER EROSION BARRIER	FOOT	3732	3732						
28000500	INLET AND PIPE PROTECTION	EACH	39	39						
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2144	2144						
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1399	1399						
28100107	STONE RIPRAP, CLASS A4	SQ YD	744	744						
28200200	FILTER FABRIC	SQ YD	753	753						
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	5306	5306						
3110110	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	19	19						
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	2185	2185						
40701911	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 11 1/2"	SQ YD	3315	3315						
40701921	HOT-MIX ASPHALT PAVEMENT (FILL-DEPTH) 12"	SQ YD	1209	1209						
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5262	5262						

FILE NAME: F:\31256\_A\_600\DRAWINGS\6005\6005.dwg 10/24/2017 10:50:00 AM

13

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% LOCAL	100% LOCAL	
				ROADWAY	RETAINING WALL	BOX CULVERT	MINOR STR	NORTHBROOK	MWRD	
				0004	0040	0008	0040	0043	0043	
				URBAN	S. N. 016-2281	S. N. 016-2842	NONE	URBAN	URBAN	
42400800	DETECTABLE WARNINGS	SQ FT	40	40						
44000100	PAVEMENT REMOVAL	SQ YD	5323	5323						
44000500	COMBINATION CURB AND GUTTER REMOVAL	SQ YD	1133	1133						
44000600	SIDEWALK REMOVAL	SQ FT	3662	3662						
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	32	32						
48203029	HOT-MIX ASPHALT SHOULDERS B"	SQ YD	331	331						
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1				
50102400	CONCRETE REMOVAL	CU YD	156.3		10.5	145.8				
50105220	PIPE CULVERT REMOVAL	FOOT	50	50						
50200100	STRUCTURE EXCAVATION	CU YD	3835			3378	457			
50200300	COFFERDAM EXCAVATION	CU YD	1473		186	1287				
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1			1				
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1			1				
50201123	COFFERDAM (TYPE 2) (LOCATION - 3)	EACH	1		1					
50300225	CONCRETE STRUCTURES	CU YD	296.6		129.9	39.3	106.8		20.6	

FILE NAME: F:\J\236 IL BRIDGES\CONSTRUCTION\0850-04-501.dwg



USER NAME = jandrews	DESIGNED - MMQ	REVISED -
PLOT SCALE = 2,0000' / 1" =	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MMQ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	6
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

*RW*

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% LOCAL	100% LOCAL
				ROADWAY	RETAINING WALL	BOX CULVERT	MINOR STR	NORTHBROOK	MWRD
				0004	0040	0008	0040	0043	0043
				URBAN	S. N. 016-2281	S. N. 016-2842	NONE	URBAN	URBAN
50300300	PROTECTIVE COAT	SQ YD	165		116	49			
50500505	STUD SHEAR CONNECTORS	EACH	367		367				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	350880		15910	313810	19660		1500
50900405	STEEL RAILING, TYPE TP-1	FOOT	38				38		
50901720	BICYCLE RAILING	FOOT	321		214	107			
50901750	PARAPET RAILING	FOOT	306		200	106			
51202305	DRIVING PILES	FOOT	80		80				
51500100	NAME PLATES	EACH	1			1			
52200010	TEMPORARY SHEET PILING	SQ FT	9811			6066	3745		
52200015	PERMANENT SHEET PILING	SQ FT	10387		8268	2119			
52200100	FURNISHING SOLDER PILES (HP SECTION)	FOOT	80		80				
54003000	CONCRETE BOX CULVERTS	CU YD	1800.9			1800.9			
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	18	18					
5421D084	PIPE CULVERTS, CLASS D, TYPE 1 84" (TEMPORARY)	FOOT	140			140			
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1					

FILE NAME - F:\1\256 IL DRAWINGS\0005\Sheet\60J13.dwg

15



USER NAME = jandraws	DESIGNED - MMQ	REVISED -
PLOT SCALE = 2.0000" / 1in.	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MMQ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	7
CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	

SCALE: N.T.S. SHEET 4 OF 14 SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE MINOR STR	100% LOCAL NORTHBROOK	100% LOCAL MWRD	
				0004	0040	0008	0040	0043	0043	
				URBAN	S.N. 016-2281	S.N. 016-2842	NONE	URBAN	URBAN	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1						
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1						
54248510	CONCRETE COLLAR	CU YD	11.2		10.8					0.4
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	229	229						
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	11	11						
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	9	9						
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	104	104						
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	225	225						
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	28	28						
550A0500	STORM SEWERS, CLASS A, TYPE 2 60"	FOOT	183	183						
55100400	STORM SEWER REMOVAL 10"	FOOT	314	314						
55100500	STORM SEWER REMOVAL 12"	FOOT	174	174						
55100700	STORM SEWER REMOVAL 15"	FOOT	219	219						
55100900	STORM SEWER REMOVAL 18"	FOOT	71	71						
55101200	STORM SEWER REMOVAL 24"	FOOT	72	72						

FILE NAME: F:\31285 IL 650\DWG\SCAD\DWG\CONSTR\0501.dwg



USER NAME = jandrews	DESIGNED - MMO	REVISED -
PLDT SCALE = 2,0000' / 1"	DRAWN - BL	REVISED -
PLDT DATE = 8/24/2017	CHECKED - MMO	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	8
CONTRACT NO. 60J13				
[ILLINOIS] FED. AID PROJECT				

15

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE MINOR STR	100% LOCAL NORTHBROOK	100% LOCAL MWRD	
				0004	0040	0008	0040	0043	0043	
				URBAN	S. N. 016-2281	S. N. 016-2842	NONE	URBAN	URBAN	
55101800	STORM SEWER REMOVAL 42"	FOOT	135	135						
56103000	DUCTILE IRON WATER MAIN 6"	FOOT	51					51		
56103300	DUCTILE IRON WATER MAIN 12"	FOOT	38					38		
56105750	BUTTERFLY VALVES 12"	EACH	1					1		
56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	4					4		
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	200							200
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	3	3						
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	36	36						
60108204	PIPE UNDERDRAINS, TYPE 2 4"	FOOT	1357	1357						
60201205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 12 FRAME AND GRATE	EACH	1	1						
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	4	4						
60218700	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 5 FRAME, OPEN LID	EACH	3	3						
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1, OPEN LID	EACH	3	3						
60223700	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1, OPEN LID	EACH	1	1						
60224470	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2						

15

FILE NAME: F:\1256 IL 60100\WMSCADS\Sheet\60J13.dwg



USER NAME: jandravo	DESIGNED - MMO	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MMO	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: N.T.S.	SHEET 6 OF 14 SHEETS STA. TO STA.

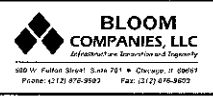
F.A.P. RTE. 343	SECTION 30T-1	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 9
ILLINOIS FED. AID PROJECT CONTRACT NO. 60J13				

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE MINOR STR	100% LOCAL NORTHBROOK	100% LOCAL MWRD	
				0004	0040	0008	0040	0043	0043	
				URBAN	S. N. 016-2281	S. N. 016-2842	NONE	URBAN	URBAN	
60236200	INLETS, TYPE A, TYPE B GRATE	EACH	1	1						
60236900	INLETS, TYPE A, TYPE 12 FRAME AND GRATE	EACH	9	9						
60238305	INLETS, TYPE A, WITH MEDIAN INLET (601401)	EACH	1	1						
60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3					3		
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3					3		
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2				2			
60500040	REMOVING MANHOLES	EACH	5	5						
60500050	REMOVING CATCH BASINS	EACH	4	4						
60500060	REMOVING INLETS	EACH	5	5						
60500370	FILLING VALVE BOXES	EACH	1					1		
60600095	CLASS S1 CONCRETE (OUTLET)	CU YD	6.4	6.4						
60603800	COMBINATION <sup>CONCRETE</sup> CURB AND GUTTER, TYPE B-6.12	FOOT	1146	1146						
60801024	FLAP GATE 24"	EACH	1	1						
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	37.5	37.5						
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1						

\*Specialty Item

FILE NAME - F:\J\256 IL 68-CAMINGS\2005\Sheet\06050-01-5002.dgn



USER NAME = jandrews	DESIGNED - MVO	REVISED -
PLOT SCALE = 2,0000' / 1" =	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MVO	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 7 OF 14 SHEETS STA. TO STA.

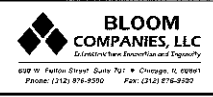
F.A.P. RTE. 343	SECTION 30T-1	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 10
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% LOCAL	100% LOCAL	
				ROADWAY	RETAINING WALL	BOX CULVERT	MINOR STR	NORTHBROOK	MWRD	
				0004	0040	0008	0040	0043	0043	
				URBAN	S. N. 016-2281	S. N. 016-2842	NONE	URBAN	URBAN	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1						
63200310	GUARDRAIL REMOVAL	FOOT	113	113						
63500105	DELINEATORS	EACH	2	2						
66400305	CHAIN LINK FENCE, 6'	FOOT	394	394						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10						
67100100	MOBILIZATION	L SUM	1	1						
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1229	1229						
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	410	410						
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5557	5557						
70300900	<i>PAVEMENT MARKING TAPE TYPE 4</i> - LETTERS AND SYMBOLS	SQ FT	146	146						
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	8621	8621						
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	146	146						
<del>70301000</del>	<del>WORK ZONE PAVEMENT MARKING REMOVAL</del>	<del>SQ FT</del>	<del>1288</del>	<del>1288</del>						
70400100	TEMPORARY CONCRETE BARRIER	FOOT	363	363						
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-DIRECTIVE), TEST LEVEL 3	EACH	4	4						

15 \*Specialty Item

FILE NAME: F:\J\306 L 60\DRAWINGS\306\Sheet\06020-04-000.dwg



USER NAME = jandrews	DESIGNED - NMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 2.0000' / 1"	CHECKED - NMO	REVISED -
PLOT DATE = 8/24/2017	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: N.T.S.	SHEET 8	OF 14 SHEETS	STA. TO STA.

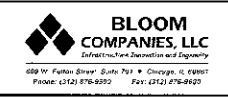
F.A.P. RTE. 343	SECTION 30T-1	COUNTY COOK	TOTAL SHEETS 140	SHEET NO. 11
CONTRACT NO. 60J13				ILLINOIS FED. AID PROJECT

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE MINOR STR	100% LOCAL NORTHBROOK	100% LOCAL MWRD	
				0004	0040	0008	0040	0043	0043	
				URBAN	S.N. 016-2281	S.N. 016-2842	NONE	URBAN	URBAN	
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2						
* 72000100	SIGN PANEL - TYPE 1	SQ FT	138	138						
* 72000200	SIGN PANEL - TYPE 2	SQ FT	17	17						
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	10	10						
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	5	5						
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	22	22						
* 72500100	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1						
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	248	248						
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	109	109						
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6290	6290						
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	495	495						
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	493	493						
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	132	132						
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	90	90						
* 78100300	REPLACEMENT REFLECTOR	EACH	91	91						

\* Specialty Item

FILE NAME - P:\11206 IL BLDG\DRAWINGS\2005\Sheet\049500-01-0001.dwg



USER NAME = jandrews	DESIGNED - MWQ	REVISED -
PLOT SCALE = 2,00000' / 1" =	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MWQ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
 SCALE: N.T.S. SHEET 9 OF 14 SHEETS STA. TO STA.

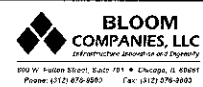
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	12
CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE MINOR STR	100% LOCAL NORTHBROOK	100% LOCAL MWRD	
				0004	0040	0008	0040	0043	0043	
				URBAN	S. N. 016-2281	S. N. 016-2842	NONE	URBAN	URBAN	
* 78200011	BARRIER WALL MARKERS, TYPE C	EACH	60	60						
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	141	141						
* 81028200	UNDERGROUND CONDUIT GALV STEEL 2" DIA	FOOT	671	671						
* 81400100	HANDHOLE	EACH	2	2						
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	SQ FT	1	1						
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO 14 IC	FOOT	5145	5145						
* 87900200	DRILL EXISTING HANDHOLE	EACH	1	1						
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1						
* 89502300	REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	5145	5145						
* 89502380	REMOVE EXISTING HANDHOLE	EACH	2	2						
X1200158	WATER MAIN TO BE ABANDONED, 24" (NORTHBROOK)	FOOT	109	109						
X0322720	CAST IRON STEPS	EACH	12					12		
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	400	400						
X0327367	STEEL CASING PIPE, BORED AND JACKED, 24"	FOOT	69					69		
X0327651	WATER MAIN CASING, 12"	FOOT	69					69		

\* Specialty Item

FILE NAME: F:\31296 IL BRV\PAVING\CADSWP\A01850.dwg



USER NAME: jandrews	DESIGNED - MMQ	REVISED -
PLOT SCALE: 2,0000' / 1"	DRAWN - BL	REVISED -
PLOT DATE: 8/24/2017	CHECKED - MMQ	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
SCALE: N.T.S. SHEET 10 OF 14 SHEETS STA. TO STA.

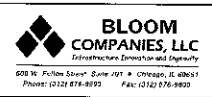
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	13
CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	

REV



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE MINOR STR	100% LOCAL NORTHBROOK	100% LOCAL MWRD	
				0004	0040	0008	0040	0043	0043	
				URBAN	S.N. 016-2281	S.N. 016-2842	NONE	URBAN	URBAN	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1						
X7010240	TRAFFIC CONTROL SURVEILLANCE (SPECIAL)	CAL DA	270	270						
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	231	231						
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	6,424	6,424						
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	67	67						
X8710024	FIBER OPTIC CABLE CONDUIT NO 62.5/125 MM12SM24F	FOOT	5145	5145						
X1200148	SANITARY SEWER REMOVAL, 36"	FOOT	100						100	
Z0007430	TEMPORARY SIDEWALK	SQ FT	462	462						
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5		0.5				
Z0022800	FENCE REMOVAL	FOOT	422	422						
Z0023602	GRANULAR CULVERT BACKFILL	CU YD	221			221				
Z0027800	GEOTECHNICAL FABRIC	SQ YD	236	30	206					
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52						
Z0033044	REOPTIMIZATION TRAFFIC SIGN SYSTEM LEVEL 1	L SUM	1	1						
Z0041900	POLYETHYLENE ENCASEMENT	FOOT	650					650		

FILE NAME: F:\11036 IL 600\ADMIN\CD\02\0001\000501\00010001



USER NAME = jandr-ova	DESIGNED - MMG	REVISED -
PLOT SCALE = 2.0000' / 1"	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MMG	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 12 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	15
CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	

REV



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE MINOR STR	100% LOCAL NORTHBROOK	100% LOCAL MWRD
				0004	0040	0008	0040	0043	0043
				URBAN	S. N. 016-2281	S. N. 016-2842	NONE	URBAN	URBAN
X1200154	WATER MAIN IN CASING, 30"	FOOT	244					244	
X1200155	BYPASS PUMPING (NORTHBROOK)	L SUM	1					1	
X1200156	BYPASS PUMPING (MWRD)	L SUM	1						1
X0100015	GRANULAR BACKFILL SPECIAL	CU YD	158						158
S2200260	PRECAST CONCRETE LAGGING	SQ FT	48		48				
X1700049	CONCRETE COLLARS, PRECAST	EACH	1		1				
X1200157	MANHOLES STEPS (MWRD)	EACH	29						29

7

FILE NAME - P:\JL\206 IL 60J13\60J13\60J13\60J13.dwg



USER NAME = jandrews	DESIGNED - MMQ	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MMQ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	17
CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
<b>IL 68 - DUNDEE RD (RECONSTRUCTION)</b> HMA PAVEMENT (FULL DEPTH) 11 1/2"		
POLYMERIZED HMA SURFACE COURSE, MIX "E" N70 (IL 9.5mm), 2"	4% @ 70 GYR.	QC/QA
POLYMERIZED HMA BINDER COURSE, IL-19.0, N90 (2 1/4")	4% @ 90 GYR.	QC/QA
HMA BINDER COURSE, IL-19.0, N90 (7 1/4")	4% @ 90 GYR.	QCP
<b>LEE RD (RECONSTRUCTION)</b> HMA PAVEMENT (FULL DEPTH 12")		
POLYMERIZED HMA SURFACE COURSE, MIX "E" N70 (IL 9.5mm), 2"	4% @ 70 GYR.	QC/QA
POLYMERIZED HMA BINDER COURSE, IL-19.0, N90 (2 1/4")	4% @ 90 GYR.	QC/QA
HMA BINDER COURSE, IL-19.0, N90 (7 3/4")	4% @ 90 GYR.	QCP
<b>HOT-MIX ASPHALT SHOULDERS, 8"</b>		
POLYMERIZED HMA SURFACE COURSE, MIX "E" N70 (IL 9.5mm), 2"	4% @ 70 GYR.	QC/QA
HMA BINDER COURSE, IL-19.0, N90 (6")	4% @ 90 GYR.	QC/QA
<b>TEMPORARY PAVEMENT (LEE AND SHERMER ROAD)</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm), 2"	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6"	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

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

**AC TYPE NOTE**  
THE "AC TYPE" FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PR 76-22" AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

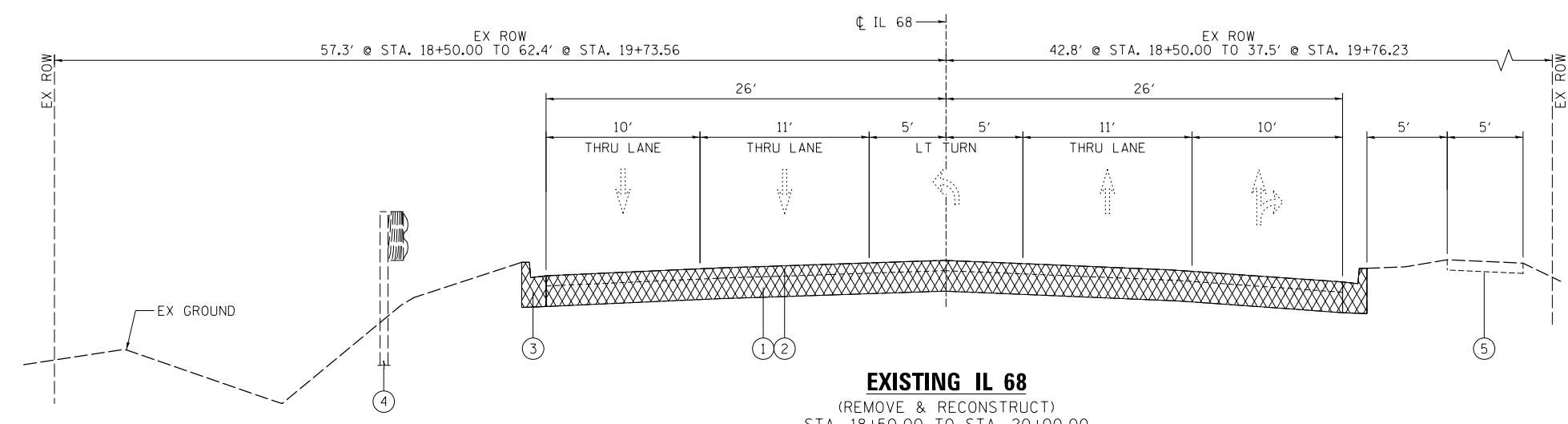
FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

**MISC. NOTES:**  
QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

**TEMPORARY PAVEMENT**  
HOT-MIX ASPHALT OPTION FOR TEMPORARY PAVEMENT SHALL CONSIST OF 2" OF SURFACE COURSE AND 6" OF BINDER COURSE.

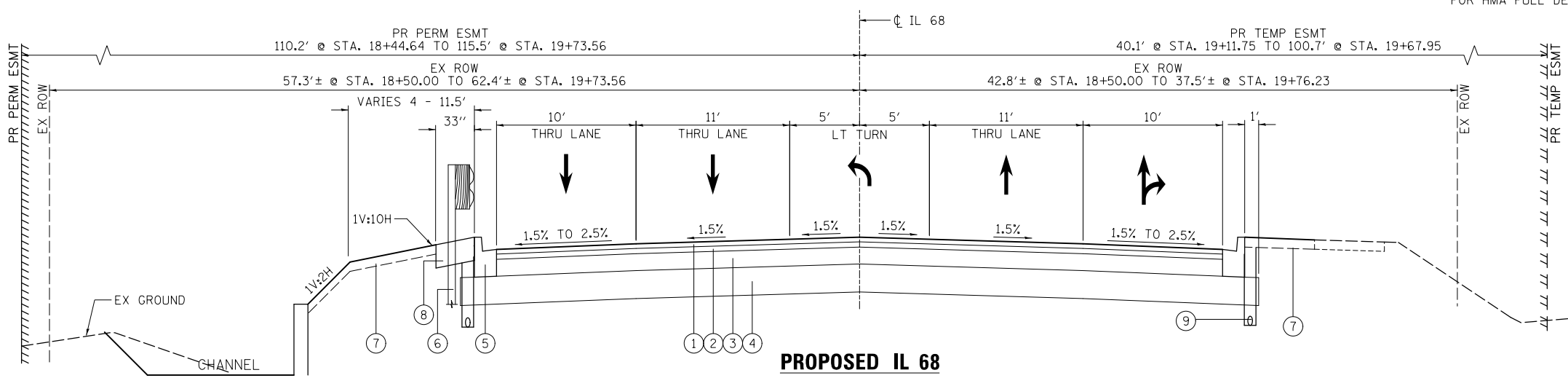
**HMA PAVEMENT (FULL DEPTH)**  
FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.

**PCC OPTION TEMPORARY PAVEMENT**  
OPTION SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENT OF ART. 1020 OF THE STANDARD SPECIFICATION. THE THICKNESS OF PAVEMENT SHALL BE 8" ON SHERMER ROAD AND LEE ROAD, 10" ON ROUTE 68. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.



**EXISTING IL 68**  
(REMOVE & RECONSTRUCT)  
STA. 18+50.00 TO STA. 20+00.00

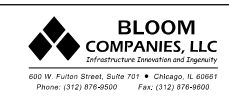
- ① 9" CONCRETE PAVEMENT
- ② (3" - 9" TYP.) VARIABLE HOT-MIX ASPHALT PAVEMENT
- ③ B-6.12 CURB & GUTTER
- ④ GUARDRAIL
- ⑤ CONCRETE SIDEWALK



**PROPOSED IL 68**  
(RECONSTRUCTION)  
STA. 18+50.00 TO STA. 20+00.00

- ① 2" POLYMERIZED HMA SURFACE COURSE, MIX "E" N70 (IL 9.5mm)
- ② 2 1/4" POLYMERIZED HMA BINDER COURSE, IL-19.0, N90
- ③ 7 1/4" HMA BINDER COURSE, IL-19.0, N90
- ④ 12" AGGREGATE SUBGRADE IMPROVEMENT
- ⑤ B-6.12 CURB & GUTTER
- ⑥ STEEL PLATE BEAM GUARDRAIL
- ⑦ 4" TOPSOIL PLACEMENT
- ⑧ AGGREGATE SHOULDERS, TYPE A 10"
- ⑨ PIPE UNDERDRAINS 4"

MODEL NAME: Detail; FILE NAME: F:\31256 IL 68\DRAWINGS\CADD\Sheet\01850-017.dwg

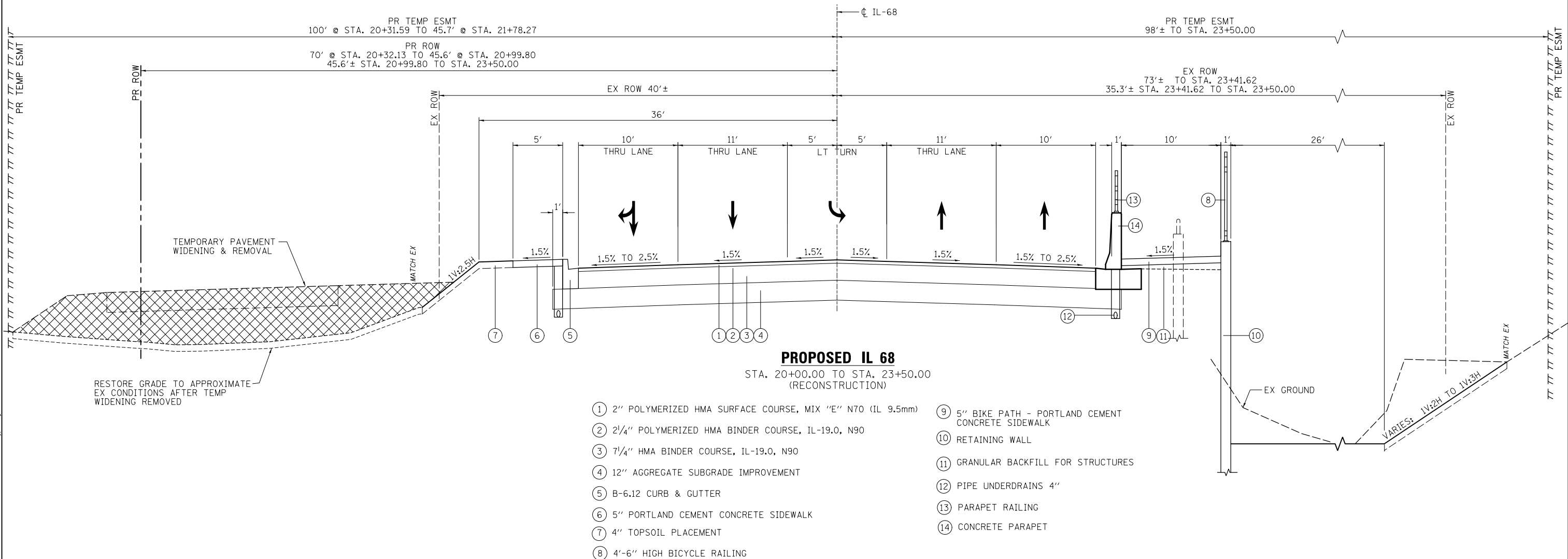
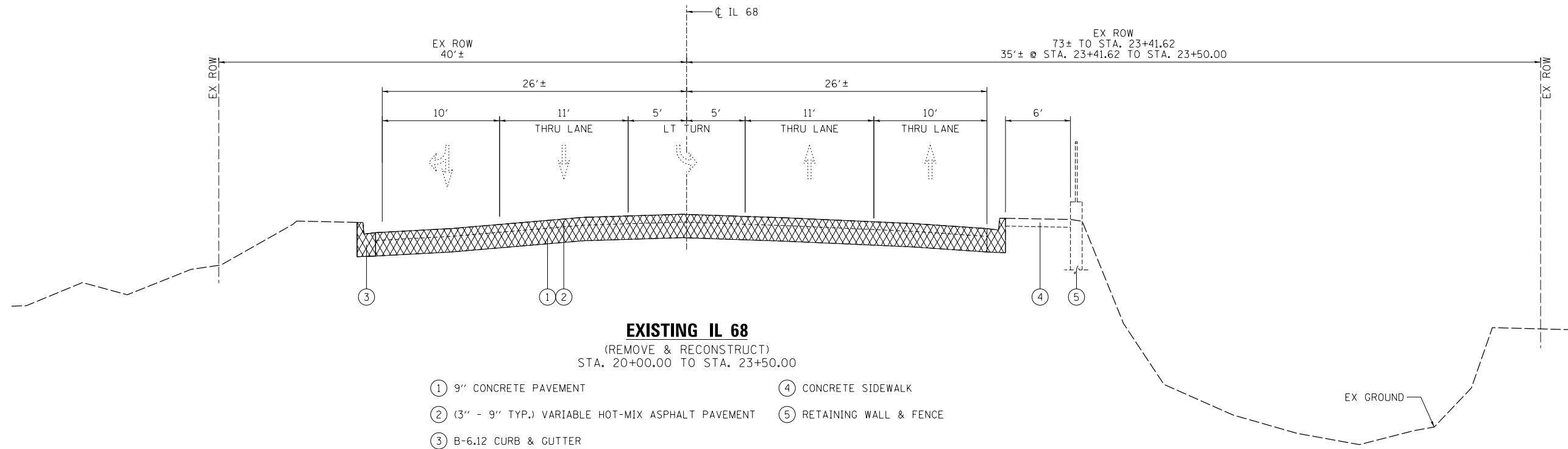


USER NAME = jandrews	DESIGNED - MMO	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - BL	REVISED -
PLOT DATE = 8/24/2017	CHECKED - MMO	REVISED -
	DATE -	REVISED -

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

<b>IL 68 AT MFNB CHICAGO RIVER</b>	
<b>TYPICAL SECTIONS</b>	
SCALE: N.T.S.	SHEET 1 OF 3 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	18
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



MODEL NAME - Detail  
 FILE NAME - F:\2126 IL 68\DRAWINGS\CADD\Sheet\0150-01\Typical.dwg  
 8/23/2017 10:00 AM

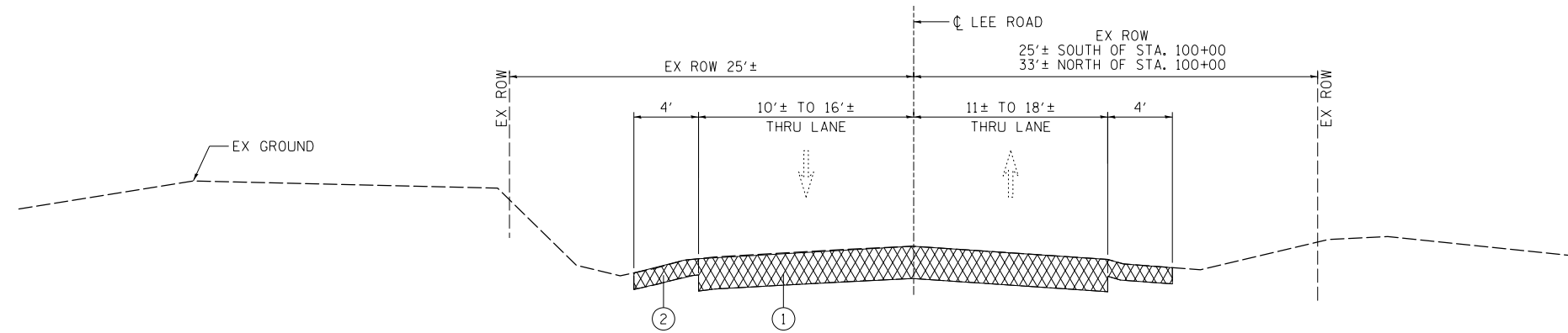


USER NAME = jandrews	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 10.0000" / in.	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

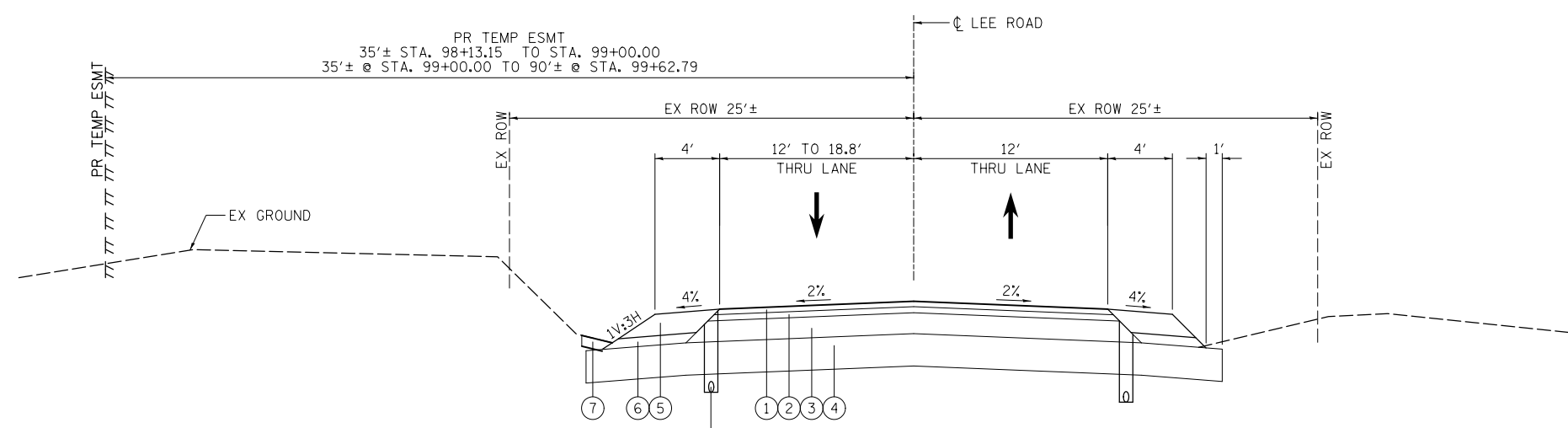
<b>IL 68 AT MFNB CHICAGO RIVER</b>	
<b>TYPICAL SECTIONS</b>	
SCALE: N.T.S.	SHEET 2 OF 3 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	19
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



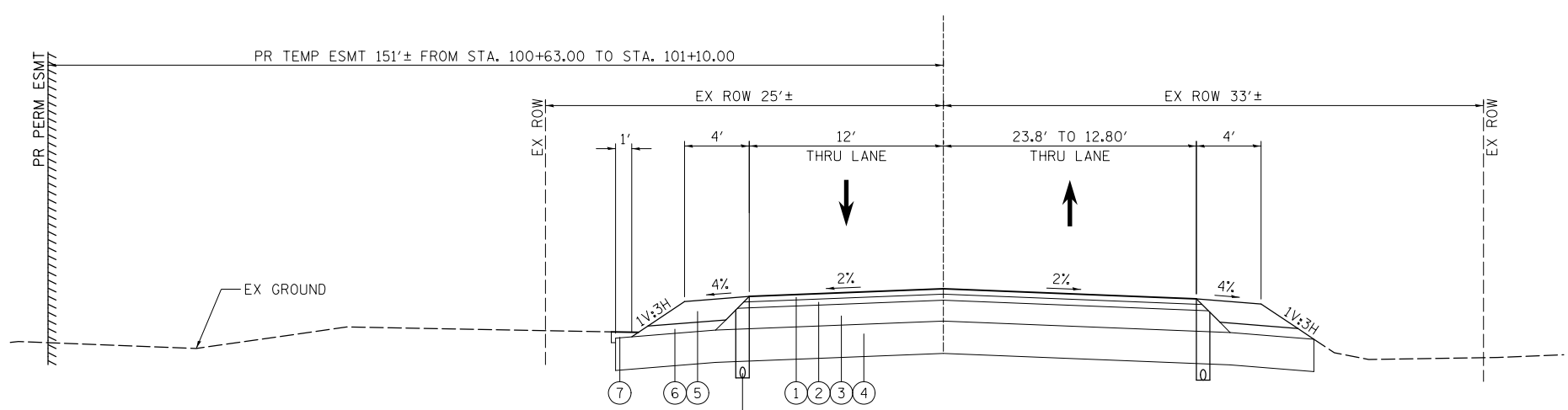
**EXISTING LEE ROAD**  
 (REMOVE & RECONSTRUCT)  
 STA. 95+91.56 TO STA. 101+35.00

- ① 6" - 8" HOT-MIX ASPHALT PAVEMENT
- ② HMA SHOULDER



**PROPOSED LEE ROAD**  
 STA. 95+91.56 TO STA. 100+00.00  
 (RECONSTRUCTION)

- ① 2" POLYMERIZED HMA SURFACE COURSE, MIX "E" N70 (IL 9.5mm)
- ② 2 1/4" POLYMERIZED HMA BINDER COURSE, IL-19.0, N90
- ③ 7 3/4" HMA BINDER COURSE, IL-19.0, N90
- ④ 6" SUBGRADE GRANULAR MATERIAL, TYPE "B"
- ⑤ 8" HMA SHOULDER
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE "B"
- ⑦ 4" TOPSOIL PLACEMENT
- ⑧ PIPE UNDERDRAINS 4"



**PROPOSED LEE ROAD**  
 STA. 100+00.00 TO STA. 101+35.00  
 (RECONSTRUCTION)

MODEL NAME: Detail  
 FILE NAME: F:\2126 IL 68\DRAWINGS\CADD\Sheet\0150-arh\150-arh.dwg



USER NAME = jandrews	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

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

<b>IL 68 AT MFNB CHICAGO RIVER</b>			
<b>TYPICAL SECTIONS</b>			
SCALE: N.T.S.	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	20
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



**REMOVALS**

	44000100	44000500	44000600
STATION TO STATION	PAVEMENT REMOVAL (SQ. YD.)	COMBINATION CURB & GUTTER REMOVAL (FOOT)	SIDEWALK REMOVAL (SQ FT)
IL 68			
18+50 19+52.34	589	206	
19+52.34 20+57.20	1025	217	
20+57.20 23+50.00	1701	586	3200
LEE RD			
95+91.56 96+22.61	134		
96+22.61 99+32.91	850		
100+65.91 101+35	225		
TEMPORARY PAVEMENT	513		
TEMPORARY PAVEMENT (SHLDR)	286	124	462
TOTALS	5323	1133	3662

**EARTHWORK**

1	2	3	4	5
LOCATION	20200100 EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE*	FILL CUBIC YARD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CUBIC YARD
IL 68 - PH I STA. 20+00 TO 23+00	9	8	266	-258
IL 68 - PH II STA. 18+50 TO 20+00	288	245	13	232
IL 68 - PH II STA. 20+00 TO 23+50	896	762	245	517
LEE RD. STA. 96+50 TO 100+00	600	510	13	497
LEE RD. STA. 100+00 TO 101+35	107	91	44	47
TOTAL	1900	1616	581	1035

\* ASSUMED SHRINKAGE FACTOR: 0.15

**OTHER EARTHWORK RELATED ACTIVITIES**

1	EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE*	EMBANKMENT / BACKFILL CUBIC YARD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CUBIC YARD
CHAMBER EXCAVATION (STRUCTURE EX)	456	388		388 **
CULVERT EXCAVATION	4998	4249	2076	2173
CHAMBER BACKFILL			249	-249
CHANNEL EXCAVATION	1470	1250		1250

\* ASSUMED SHRINKAGE FACTOR: 0.15

\*\* COULD BE USED FOR PH I - TEMPORARY ROAD - CONSTRUCTION

**PAVING**

	30300112	31101100	40701911	40701921	48100900	48203029	40700100
STATION TO STATION	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)	SUBBASE GRANULAR MATERIAL, TYPE B (CU YD)	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 1 1/2" (SQ YD)	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12" (SQ YD)	AGGREGATE SHOULDERS, TYPE A 10 SQ YD	HOT-MIX ASPHALT SHOULDERS 8" (SQ YD)	BITUMINOUS MATERIALS (TACK COAT) (POUND)
IL 68							
18+50 19+52.34	637		589		32		265
19+52.34 20+57.20	1074		1025				461
20+57.20 23+50.00	1837		1701				765
LEE RD							
95+91.56 96+22.61	176	2		134		28	73
96+22.61 99+32.91	1264	14		850		255	498
100+65.91 101+35.00	318	3		225		48	123
TOTALS	5306	19	3315	1209	32	331	2185

FILE NAME = F:\3-1296\_IL\_68\DRAWINGS\CADD\Sheet\0118518-11t-ashedb1.dgn



USER NAME = jandrews  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 8/23/2017

DESIGNED - MMO  
 DRAWN - BL  
 CHECKED - MMO  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	21
CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	

**TREE REMOVAL**

IL 68 STATION	OFFSET*	SIZE	IL 68 STATION	OFFSET*	SIZE	LEE RD STATION	OFFSET*	SIZE	SHERMER RD STATION	OFFSET*	SIZE	20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)	20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)
18+57.43	-46.2	12"	19+54.99	54.2	15"	97+20.30	-21.4	17"	206+13.98	33.5	13"	1106	380
18+60.13	-39.3	10"	19+71.04	60.1	13"	97+26.73	-22.6	6"	206+15.35	35.4	15"		
18+61.08	-49.0	8"	19+79.27	71.9	14"	97+33.77	-25.2	9"	206+13.63	43.1	6"		
18+66.60	-38.7	8"	20+37.80	60.1	6"	97+53.88	-20.2	15"	206+23.26	44.0	12"		
18+85.55	-41.9	6"	20+46.77	68.5	6"	97+88.97	-20.9	7"	206+24.94	42.6	11"		
18+95.07	-37.4	8"	20+51.40	79.8	7"	98+15.54	-21.6	12"	206+27.85	44.5	8"		
19+05.28	-39.8	31"	20+55.42	83.6	6"	98+16.56	-24.7	24"	206+19.70	32.9	9"		
19+08.78	-41.8	8"	20+62.34	68.8	8"	98+26.11	-23.5	10"	206+20.15	33.8	8"		
20+25.01	-72.0	7"	20+67.47	69.8	8"	98+66.57	-24.3	8"	206+37.68	38.6	6"		
20+27.33	-76.5	6"	20+69.29	70.0	8"	100+75.18	-61.6	17"	206+41.00	52.5	6"		
20+37.30	-55.1	12"	20+77.38	72.6	14"	100+82.45	-47.0	20"	206+37.68	38.6	6"		
20+53.40	-46.7	10"	20+80.29	72.1	6"	100+88.39	-47.4	8"	206+43.99	42.8	11"		
20+57.98	-48.3	6"	20+88.21	74.4	6"	100+90.28	-59.1	10"	206+35.95	47.3	6"		
20+59.35	-46.2	12"	20+88.38	78.1	8"	100+97.89	-99.3	9"					
20+64.73	-45.1	28"	20+91.70	79.2	8"	100+86.52	-100.9	40"					
20+74.57	-44.9	12"	20+91.71	74.3	15"	100+89.58	-114.9	8"					
20+84.96	-46.6	10"	21+05.32	73.0	12"	100+91.60	-119.8	7"					
20+95.57	-52.8	12"	21+07.91	77.7	10"	100+96.48	-124.8	6"					
21+16.32	-43.9	11"	21+14.24	80.4	10"	100+97.60	-33.2	10"					
21+19.24	-45.4	12"	21+37.52	78.3	11"	101+07.30	-40.7	8"					
21+21.22	-44.6	12"	21+38.85	73.6	8"	101+06.92	-53.8	10"					
21+28.86	-51.3	8"	21+39.09	85.9	14"	101+06.26	-56.0	12"					
21+32.15	-45.0	6"	21+49.75	75.2	14"	101+09.43	-38.0	8"					
21+32.28	-47.7	25"	21+63.92	71.8	8"								
21+43.36	-42.7	8"	21+65.67	69.3	15"								
21+44.91	-43.5	6"	21+70.10	80.6	10"								
21+48.63	-51.1	11"	21+71.05	74.8	6"								
21+51.60	-48.7	6"	21+80.68	69.7	23"								
20+88.25	-50.3	6"	21+89.63	85.3	8"								
21+00.32	-58.0	13"	21+97.98	81.7	8"								
21+07.91	-47.8	6"	22+03.14	77.7	10"	100+88.61	24.5	8"					
21+24.75	-48.1	6"	22+03.43	71.8	20"	101+02.57	22.9	17"					
21+67.84	-42.6	6"	22+04.73	71.2	12"	101+11.79	29.1	16"					
			22+18.99	73.8	11"	101+29.20	31.4	16"					
			22+20.89	72.4	12"	100+68.56	29.4	6"					
			22+25.57	88.4	9"	100+59.05	37.9	6"					
			22+37.43	71.4	14"	100+50.26	39.2	18"					
			22+39.13	82.2	12"								
			22+46.55	75.3	12"								
			22+59.91	73.0	12"								
			22+63.21	70.1	13"								
			22+65.73	73.9	6"								
			22+73.37	76.6	14"								
			22+75.07	71.3	10"								
			22+91.56	75.3	8"								
			22+94.22	79.1	12"								
			23+07.79	82.1	7"								
			22+96.53	35.2	28"								
			23+00.95	35.3	8"								
			23+01.65	42.7	8"								
			23+20.48	43.0	12"								
			23+21.84	39.3	13"								
			23+22.20	48.2	10"								
			23+24.91	42.2	16"								
			23+26.29	54.6	7"								
			23+32.08	55.6	8"								
			23+35.94	46.0	24"								
			23+42.05	57.8	10"								
			23+44.33	58.6	10"								

\* NEGATIVE OFFSET IS LEFT

FILE NAME = F:\3-1296\_IL\_68\DRAWINGS\CADD\Sheet\0118518-11t-ashedb1.dgn



USER NAME = jandrews	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	22
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

MOT PAVEMENT MARKING SCHEDULE

SHEET	STA.	STA.	TYPE	70300100	70300150	70300220	70300900	70300904	70300924	X7030005	X0327979
				SHORT TERM PAVEMENT MARKING FOOT	SHORT TERM PAVEMENT MARKING REMOVAL SQ FT	TEMPORARY PAVEMENT MARKING - LINE 4" FOOT	PAVEMENT MARKING TAPE, TYPE IV - LETTERS & SYMBOLS SQ FT	PAVEMENT MARKING TAPE, TYPE IV 4" FOOT	PAVEMENT MARKING TAPE, TYPE IV 24" FOOT	TEMPORARY PAVEMENT MARKING REMOVAL SQ FT	PAVEMENT MARKING REMOVAL - GRINDING SQ FT
SP-1	16+55	32+47	WHITE SKIP	289	96						
SP-1	16+55	32+47	YELLOW SOLID	579	193						
SP-1	96+15	99+56	YELLOW SOLID	31	10						
SP-1	18+65		WHITE LT ONLY	110	37						
SP-1	21+35		WHITE LT ONLY	110	37						
SP-1	28+42		WHITE LT ONLY	110	37						
MOT-6	20+10	23+50	WHITE SOLID			387				128	
MOT-6	100+45	101+32	WHITE SOLID			88				29	
MOT-7	99+01	101+32	YELLOW SOLID			462				153	
MOT-7	99+01	101+32	WHITE SOLID			462				153	
MOT-8	101+32	23+50	YELLOW SOLID			462				153	
MOT-8	101+32	23+50	WHITE SOLID			462				153	
MOT-9	99+01	101+32	YELLOW SOLID			462				153	
MOT-9	99+01	101+32	WHITE SOLID			462				153	
MOT-10	99+01	101+32	YELLOW SOLID			924				305	
MOT-10	99+01	101+32	WHITE SOLID			462				153	
MOT-10	99+01	101+32	YELLOW SOLID			462				153	
MOT-10	99+01	101+32	WHITE SOLID			462				153	
MOT-6	20+25	36+24	4" SKIP DASH W								132
MOT-7	31+68		LT ARROW W								9
MOT-7	28+27		LT ONLY W								36
MOT-7	28+37	29+87	4" DBLE Y SOLID								99
MOT-7	27+37	29+87	4" DBLE Y SOLID								165
MOT-7	28+37	29+87	12" SOLID Y								43
MOT-7	27+37	27+37	24" SOLID								62
MOT-7	27+37	28+37	6" SOLID								50
MOT-7	29+87	32+47	4" SOLID/4" SKIP DASH Y								107
MOT-7	29+87	32+47	4" SOLID/4" SKIP DASH Y								107
MOT-7	26+02	26+71	6" SOLID W								138
MOT-7	26+01	26+61	6" SOLID W								120
MOT-7	26+20	26+53	24" SOLID W								66
MOT-7	99+01	99+59	4" DBLE Y SOLID								38
MOT-7	20+01	20+23	24" SOLID W								44
MOT-8	22+00	26+51	4" DBLE Y SOLID								307
MOT-8	22+00	26+51	12" SOLID Y								105
SP-1	16+55	18+50	4" SKIP DASH W								16
SP-1	16+55	18+50	4" SKIP DASH W								16
SP-1	16+55	18+50	4" DBLE Y SOLID								129
SP-1	16+55	18+50	4" DBLE Y SOLID								129
SP-1	16+55	18+50	12" SOLID Y								72
SP-1	23+50	26+51	4" DBLE Y SOLID								199
SP-1	23+50	26+00	4" SKIP DASH W								21
SP-1	26+00	26+00	24" SOLID W								44
SP-1	27+45	30+52	4" SKIP DASH W								25
MOT-8	207+52		ARROW ONLY			73				73	
MOT-8	27+50		ARROW ONLY			36				36	
MOT-8	30+78		ARROW ONLY			36				36	
MOT-6	101+32	103+16	4" WHITE SOLID					184		61	
MOT-6	23+50	36+24	4" WHITE SOLID					1274		421	
MOT-7	101+32	102+69	4" YELLOW SOLID					274		91	
MOT-7	101+32	102+69	4" WHITE SOLID					274		91	
MOT-7	26+15	27+94	4" WHITE SOLID					179		60	
MOT-7	26+21	32+47	4" YELLOW SOLID					1252		414	
MOT-7	26+29	32+47	4" YELLOW SOLID					1236		408	
MOT-8	23+50	25+87	4" WHITE SOLID					237		79	
MOT-8	25+87	25+87	4" WHITE SOLID					63		21	
MOT-8	23+50	25+87	4" YELLOW SOLID					474		157	
MOT-8	25+87	27+37	4" WHITE DOTTED					38		13	
MOT-8	207+05	207+84	4" YELLOW SOLID					158		53	
MOT-8	206+56	207+49	4" WHITE DOTTED					23		8	
MOT-8	207+49	207+96	4" WHITE SOLID					47		16	
MOT-8	27+37	27+94	4" YELLOW SOLID					228		76	
MOT-8	31+29	36+24	4" WHITE DOTTED					124		41	
MOT-8	27+37	27+94	4" WHITE SOLID					57		19	
MOT-9	26+15	27+94	4" WHITE SOLID					179		60	
MOT-9	26+21	27+94	4" YELLOW SOLID					346		115	
MOT-9	26+29	27+94	4" YELLOW SOLID					330		109	
MOT-9	101+32	102+69	4" YELLOW SOLID					274		91	
MOT-9	101+32	102+69	4" WHITE SOLID					274		91	
MOT-10	101+32	102+69	4" YELLOW SOLID					548		181	
MOT-10	101+32	102+69	4" WHITE SOLID					137		46	
MOT-10	101+32	102+69	4" YELLOW SOLID					274		91	
MOT-10	101+32	102+69	4" WHITE SOLID					137		46	
MOT-7	27+36		STOP BAR						11	22	
MOT-7	207+59		STOP BAR						21	42	
MOT-8	207+83		STOP BAR						49	98	
MOT-8	25+87		STOP BAR						11	22	
MOT-8	27+37		STOP BAR						22	44	
MOT-9	207+59		STOP BAR						21	42	
MOT-9	27+36		STOP BAR						11	22	
TOTAL				1229	410	5557	146	8621	146	5136	2279
RECORD QUANTITY											

THERMOPLASTIC PAVEMENT MARKING SCHEDULE

SHEET	STA.	STA.	TYPE	LOCATION (LEFT, RIGHT OR MEDIAN)	DIRECTION	78000100	78000200	78000400
						THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS SQ FT	THERMOPLASTIC PAVEMENT MARKING - LINE 4" FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6" FOOT
SP-1	18+80		ARROW ONLY	MEDIAN	EB	36.4		
SP-1	21+20		ARROW ONLY	MEDIAN	WB	36.4		
SP-1	28+27		ARROW ONLY	MEDIAN	WB	36.4		
SP-1	16+55	18+55	YELLOW SOLID	MEDIAN	EB/WB		800	
SP-1	18+55	19+70	YELLOW SOLID	LT	EB/WB		230	
SP-1	20+30	21+45	YELLOW SOLID	RT	EB/WB		230	
SP-1	21+45	26+56	YELLOW SOLID	MEDIAN	EB/WB		2044	
SP-1	27+37	28+52	YELLOW SOLID	RT	EB/WB		230	
SP-1	28+52	30+52	YELLOW SOLID	MEDIAN	EB/WB		810	
SP-1	96+15	99+56	YELLOW SOLID	MEDIAN	NB/SB		682	
SP-1	16+55	19+70	WHITE SKIP	LT/RT	EB/WB		158	
SP-1	20+30	36+17	WHITE SKIP	LT	WB		397	
SP-1	20+30	25+99	WHITE SKIP	RT	EB		142	
SP-1	27+37	30+52	WHITE SKIP	RT	EB		79	
SP-1	18+55	19+70	WHITE SOLID	RT	EB			115
SP-1	20+30	21+45	WHITE SOLID	LT	WB			115
SP-1	27+37	28+52	WHITE SOLID	LT	WB			115
SP-1	30+52	32+47	YELLOW SOLID	MEDIAN	EB/WB		390	
SP-1	30+52	32+47	YELLOW SKIP	MEDIAN	EB/WB		98	
SP-1	16+55	18+55	WHITE DOTTED	MEDIAN	EB			50
SP-1	21+45	23+45	WHITE DOTTED	MEDIAN	WB			50
SP-1	28+52	30+52	WHITE DOTTED	MEDIAN	WB			50
TOTAL						109	6290	495
RECORD QUANTITY								

THERMOPLASTIC PAVEMENT MARKING SCHEDULE (CONT.)

SHEET	STA.	STA.	TYPE	LOCATION (LEFT, RIGHT OR MEDIAN)	DIRECTION	78000600	78000650
						THERMOPLASTIC PAVEMENT MARKING - LINE 12" FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24" FOOT
SP-1	16+55	18+55	YELLOW DIAGONALS	LT/RT	EB/WB	43	
SP-1	21+45	26+56	YELLOW DIAGONALS	LT/RT	EB/WB	95	
SP-1	28+52	30+52	YELLOW DIAGONALS	LT/RT	EB/WB	50	
SP-1	19+73	20+28	WHITE CROSS WALK	RT	EB	109	
SP-1	26+01	26+69	WHITE CROSS WALK	RT	EB	132	
SP-1	96+00	96+09	WHITE CROSS WALK	LT/RT	WB	64	
SP-1	25+99		STOP BAR	RT	EB		22
SP-1	27+37		STOP BAR	LT/RT	WB		31
SP-1	96+15		STOP BAR	LT	SB		12
SP-1	99+56		STOP BAR	RT	NB		19
SP-1	100+52		STOP BAR	LT	SB		16
SP-1	207+59		STOP BAR	RT	NB		32
SP-1	30+52	32+47	YELLOW SOLID	MEDIAN	EB/WB		
SP-1	30+52	32+47	YELLOW SKIP	MEDIAN	EB/WB		
TOTAL						493	132
RECORD QUANTITY							

SIGNING SCHEDULE													
SHEET	STATION	LOCATION (LEFT OR RIGHT)	SIGN CODE	MOUNTING TYPE	SIGN DESCRIPTION	PANEL HEIGHT FEET	PANEL WIDTH FEET	SIGN PANEL AREA SQ FT	72000100	72000200	POST 1 FOOT	POST 2 FOOT	72800100
									SIGN PANEL TYPE 1	SIGN PANEL TYPE 2			TELESCOPING STEEL SIGN SUPPORT
SP-1	19+68	LT	004	TS	LEE ROAD	1	3	3.0	3.0		17		17
			086		ROUTE 68	1	3.5	3.5	3.5				
			006		DUNDEE ROAD	1	4	4.0	4.0				
			008		NO OUTLET	0.67	3	2.0	2.0				
SP-1	23+79	LT	012	TS	S.L. 45 MPH	2.5	3	7.5	7.5				16
SP-1	24+90	LT	014	TS	INTERSECTION AHEAD	3	3	9.0	9.0		17		17
			016		LEE ROAD	0.75	2	1.5	1.5				
SP-1	25+84	RT	018	PM	NO RIGHT TURN	2	2	4.0	4.0				
SP-1	26+96	LT	022	PM	NO LEFT TURN	2	2	4.0	4.0				
SP-1	27+22	RT	027	PM	EAST	1	2	2.0	2.0				
			029		IL 68	2	2	4.0	4.0				
SP-1	27+37	LT	031	PM	NO TURN ON RED	3	3	9.0	9.0				
SP-1	207+88	RT	050	PM	NO LEFT TURN	2	2	4.0	4.0				
SP-1	207+86	RT	053	TS	EAST	1	2	2.0	2.0		21		21
			055		IL 68	2	2	4.0	4.0				
			057		ARROW	1.75	1.25	2.2	2.2				
			059		NO TURN ON RED	3	3	9.0	9.0				
SP-1	96+15	LT	63A	TS	STOP SIGN	2.5	2.5	6.3	6.3		17		17
			64A		CROSS TRAFFIC DOES NOT STOP	1.5	2.5	3.8	3.8				
SP-1	96+72	RT	066	TS	STOP AHEAD	2.5	2.5	6.3	6.3				16
SP-1	97+50	LT	068	TS	SHERMER ROAD	1.5	5.5	8.3	8.3		15	15	30
SP-1	98+00	RT	069	TS	IL ROUTE 68 / DUNDEE ROAD	3	5.5	16.5		16.5	16	16	32
SP-1	98+73	LT	072	TS	STOP AHEAD	2.5	2.5	6.3	6.3				16
SP-1	99+53	RT	074	TS	STOP SIGN	2.5	2.5	6.3	6.3		17		17
			076		CROSS TRAFFIC DOES NOT STOP	1.5	2.5	3.8	3.8				
SP-1	100+56	LT	078	TS	STOP SIGN	2.5	2.5	6.3	6.3		17		17
			080		CROSS TRAFFIC DOES NOT STOP	1.5	2.5	3.8	3.8				
SP-1	100+59	RT	082	TS	NO OUTLET	2.5	2.5	6.3	6.3				16
SP-1	101+94	RT	084	TS	DEER CROSSING	2.5	2.5	6.3	6.3				16
SUB TOTAL									138	17			248
RECORD QUANTITY													

PAVEMENT MARKER & REFLECTOR SCHEDULE												
SHEET	STATION	STATION	TYPE	LOCATION (LEFT, RIGHT OR MEDIAN)	DIRECTION	78100100	78100300	78300200				
						RAISED REFLECTIVE PAVEMENT MARKER EACH	REPLACEMENT REFLECTIVE EACH	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH				
SP-1	16+55	23+50	TWO-WAY AMBER	LT/RT	EB/WB	24						
SP-1	16+55	23+50	ONE-WAY AMBER	LT/RT	EB/WB	12						
SP-1	18+50	23+50	ONE-WAY CRYSTAL	LT/RT	EB/WB	32						
SP-1	26+37	30+52	TWO-WAY AMBER	LT/RT	EB/WB	18						
SP-1	26+37	27+52	ONE-WAY CRYSTAL	LT/RT	EB/WB	4						
SP-1	16+55	18+50	ONE-WAY CRYSTAL	LT/RT	EB/WB		8					
SP-1	23+50	36+17	ONE-WAY CRYSTAL	LT/RT	EB/WB		48					
SP-1	23+50	26+52	ONE-WAY AMBER	LT/RT	EB/WB		19					
SP-1	30+52	32+47	TWO-WAY AMBER	LT/RT	EB/WB		16					
MOT-6	20+25	36+24	ONE-WAY CRYSTAL	LT	WB			42				
MOT-7	27+36	27+94	ONE-WAY CRYSTAL	LT	WB			3				
MOT-7	27+36	27+94	TWO-WAY AMBER	RT	EB/WB			6				
MOT-8	22+00	26+51	TWO-WAY AMBER	LT/RT	EB/WB			13				
SP-1	16+55	18+50	ONE-WAY CRYSTAL	LT/RT	EB/WB			8				
SP-1	16+55	18+50	TWO-WAY AMBER	LT	EB/WB			6				
SP-1	16+55	17+53	ONE-WAY AMBER	LT/RT	EB/WB			3				
SP-1	17+53	18+50	TWO-WAY AMBER	LT/RT	EB/WB			4				
SP-1	23+50	26+51	ONE-WAY AMBER	LT/RT	EB/WB			9				
SP-1	23+50	26+00	ONE-WAY CRYSTAL	LT/RT	EB/WB			10				
SP-1	27+94	28+37	ONE-WAY CRYSTAL	LT	WB			2				
SP-1	27+94	32+47	TWO-WAY AMBER	RT	EB/WB			13				
SP-1	28+37	32+47	TWO-WAY AMBER	LT/RT	EB/WB			12				
SP-1	27+36	30+52	ONE-WAY AMBER	LT/RT	EB/WB			10				
TOTAL						90	91	141				
RECORD QUANTITY												

SIGNING REMOVAL / RELOCATION SCHEDULE												
SHEET	STATION	LOCATION (LEFT OR RIGHT)	SIGN CODE	MOUNTING TYPE	SIGN DESCRIPTION	PANEL HEIGHT FEET	PANEL WIDTH FEET	SIGN PANEL AREA SQ FT	72400100	72400200	72400310	
									REMOVE SIGN PANEL ASSEMBLY - TYPE A EACH	REMOVE SIGN PANEL ASSEMBLY - TYPE B EACH	REMOVE SIGN PANEL - TYPE 1 SQ FT	
SP-1	17+87	RT	001	TS	WEIGHT LIMIT	2	3	6.0	1			
SP-1	19+68	LT	003	TS	LEE ROAD	0.75	2.5	1.9				
			005		DUNDEE ROAD	0.75	3	2.3	1			
			007		NO OUTLET	0.75	2.5	1.9				
SP-1	22+82	LT	009	TS	WEIGHT LIMIT	2	3	6.0	1			
SP-1	23+79	LT	011	TS	S.L. 45 MPH	3	2.5	7.5	1			
SP-1	24+90	LT	013	TS	INTERSECTION AHEAD	3	3	9.0		1		
			015		LEE ROAD	0.75	2	1.5				
SP-1	25+84	RT	017	PM	NO RIGHT TURN	2	2	4.0			4.0	
SP-1	26+96	LT	021	PM	NO LEFT TURN	2	2	4.0			4.0	
SP-1	27+22	RT	026	PM	EAST	1	2	2.0			2.0	
			028		IL 68	2	2	4.0			4.0	
SP-1	27+37	LT	030	PM	NO TURN ON RED	2	2	4.0			4.0	
SP-1	207+86	RT	052	TS	EAST	1	2	2.0		1		
			054		IL 68	2	2	4.0				
			056		ARROW	1.25	1.75	2.2				
			058		NO TURN ON RED	2	2	4.0				
SP-1	207+88	RT	049	PM	NO LEFT TURN	2	2	4.0			4.0	
SP-1	96+15	LT	063	TS	STOP SIGN	3	3	9.0		1		
			064		CROSS TRAFFIC DOES NOT STOP	1.5	3	4.5				
SP-1	96+72	RT	065	TS	STOP AHEAD	3	3	9.0	1			
SP-1	96+89	RT	067	TS	DUNDEE ROAD	1.5	5.5	8.3	1			
SP-1	98+26	LT	070	TS	SHERMER ROAD	1.5	5.5	8.3	1			
SP-1	98+73	LT	071	TS	STOP AHEAD	3	3	9.0	1			
SP-1	99+53	RT	073	TS	STOP SIGN	3	3	9.0		1		
			075		CROSS TRAFFIC DOES NOT STOP	1.5	3	4.5				
SP-1	100+56	LT	077	TS	STOP SIGN	2.5	2.5	6.3		1		
			079		CROSS TRAFFIC DOES NOT STOP	1.5	2.5	3.8				
SP-1	100+59	RT	081	TS	NO OUTLET	2.5	2.5	6.3	1			
SP-1	101+94	RT	083	TS	DEER CROSSING	2.5	2.5	6.3	1			
TOTAL									10	5	22	
RECORD QUANTITY												

ALIGNMENT COORDINATES - IL-68 (DUNDEE ROAD)			
	STATION	N	E
POT	15+22.07	1993356.61	1125890.35
PC	15+72.38	1993356.37	1125940.66
PI	16+97.63	1993356.61	1126065.91
PT	18+22.84	1993350.95	1126191.04
PT	19+19.37	1993346.58	1126287.47
PI	20+20.71	1993342.00	1126388.71
PT	21+22.03	1993341.25	1126490.05
POT	30+91.15	1993334.10	1127459.14

<p><b>(C1)</b>          EXIST. CURVE DUN1          PI STA. = 16+97.63  <math>\Delta = 2^\circ 41' 57''</math> (RT)  <math>D = 1^\circ 04' 40''</math>  <math>R = 5,316.63'</math>  <math>T = 125.25'</math>  <math>L = 250.46'</math>  <math>E = 1.48'</math>  <math>e = \text{-----}</math>  <math>T.R. = \text{-----}</math>  <math>S.E. RUN = \text{-----}</math>          P.C. STA. = 15+72.38          P.T. STA. = 18+22.84</p>	<p><b>(C2)</b>          EXIST. CURVE DUN2          PI STA. = 20+20.71  <math>\Delta = 2^\circ 10' 06''</math> (LT)  <math>D = 1^\circ 04' 12''</math>  <math>R = 5,354.79'</math>  <math>T = 101.34'</math>  <math>L = 202.66'</math>  <math>E = 0.96'</math>  <math>e = \text{-----}</math>  <math>T.R. = \text{-----}</math>  <math>S.E. RUN = \text{-----}</math>          P.C. STA. = 19+19.37          P.T. STA. = 21+22.03</p>	<p><b>(C3)</b>          EXIST. CURVE SHR1          PI STA. = 198+45.82  <math>\Delta = 32^\circ 58' 47''</math> (RT)  <math>D = 8^\circ 44' 43''</math>  <math>R = 655.17'</math>  <math>T = 193.94'</math>  <math>L = 377.12'</math>  <math>E = 28.10'</math>  <math>e = \text{-----}</math>  <math>T.R. = \text{-----}</math>  <math>S.E. RUN = \text{-----}</math>          P.C. STA. = 196+51.88          P.T. STA. = 200+29.00</p>	<p><b>(C4)</b>          EXIST. CURVE SHR2          PI STA. = 203+49.72  <math>\Delta = 49^\circ 41' 34''</math> (LT)  <math>D = 13^\circ 41' 00''</math>  <math>R = 418.73'</math>  <math>T = 193.89'</math>  <math>L = 363.17'</math>  <math>E = 42.71'</math>  <math>e = \text{-----}</math>  <math>T.R. = \text{-----}</math>  <math>S.E. RUN = \text{-----}</math>          P.C. STA. = 201+55.83          P.T. STA. = 205+19.00</p>	<p><b>(C5)</b>          EXIST. CURVE SHR3          PI STA. = 206+44.91  <math>\Delta = 22^\circ 04' 46''</math> (RT)  <math>D = 18^\circ 19' 06''</math>  <math>R = 312.78'</math>  <math>T = 61.02'</math>  <math>L = 120.53'</math>  <math>E = 5.90'</math>  <math>e = \text{-----}</math>  <math>T.R. = \text{-----}</math>  <math>S.E. RUN = \text{-----}</math>          P.C. STA. = 205+83.89          P.T. STA. = 207+04.42</p>
--	--	---	--	--

ALIGNMENT COORDINATES - LEE ROAD			
	STATION	N	E
POT	89+98.79	1992342.43	1126360.01
PI	99+99.99	1993343.60	1126368.05
POT	103+15.67	1993659.27	1126370.04

ALIGNMENT COORDINATES - SHERMER ROAD			
	STATION	N	E
PC	196+51.88	1992778.15	1126052.32
PI	198+45.82	1992901.77	1126201.76
PT	200+29.00	1992924.12	1126394.41
PI	203+49.72	1992961.09	1126713.00
PT	205+19.00	1993122.42	1126820.55
PC	205+83.89	1993176.41	1126856.54
PI	206+44.91	1993227.19	1126890.39
PT	207+04.42	1993261.52	1126940.84
POT	208+38.78	1993337.10	1127051.93

SURVEY FURNISHED BY DYNASTY GROUP, INC.

MODEL NAME: D:\Road\1160\DRAWINGS\CADD\Drawings\0150\01.dwg  
 FILE NAME: F:\1160\DRAWINGS\CADD\Drawings\0150\01.dwg



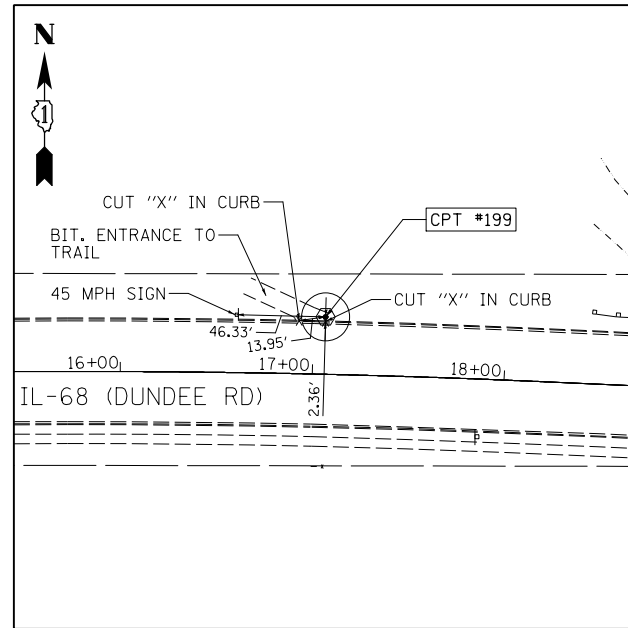
USER NAME = jandrews	DESIGNED - MMO	REVISD -
DRAWN - BL	REVISD -	
PLOT SCALE = 100.0000' / 1" =	CHECKED - MMO	REVISD -
PLOT DATE = 8/23/2017	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES & BENCHMARKS**

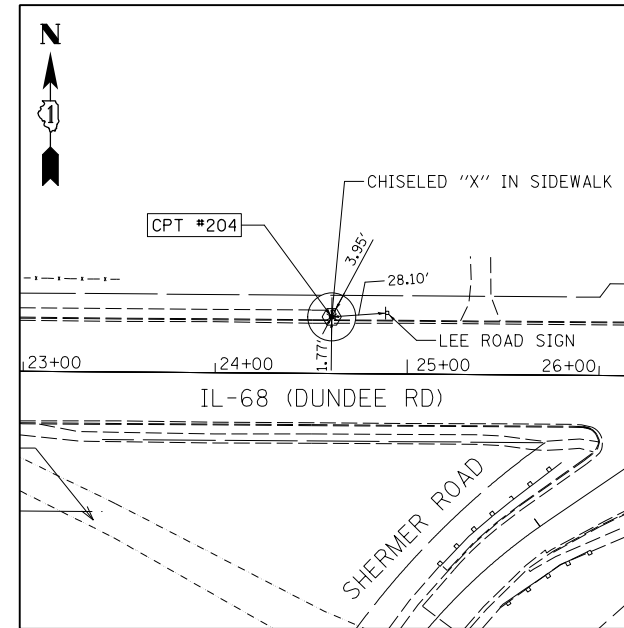
SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	25
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



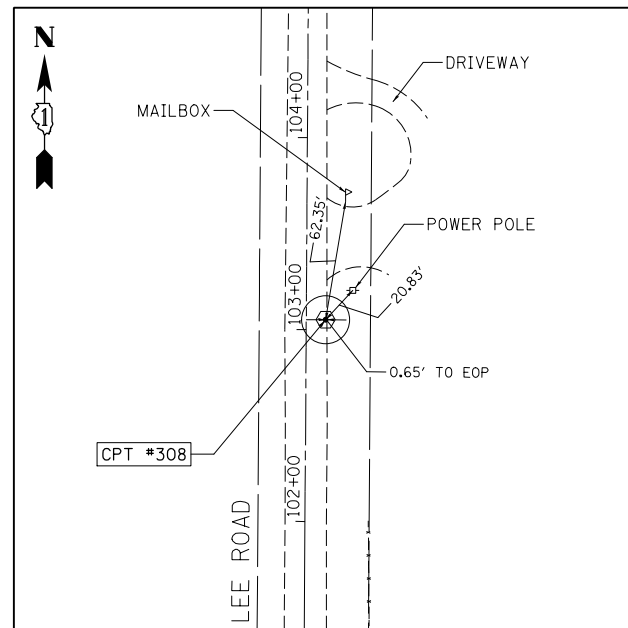
**CONTROL POINT #199**

MAG NAIL  
 STA. 17+06.31, 29.89' LT  
 N 1993384.820  
 E 1126075.280  
 ELEV. 646.49



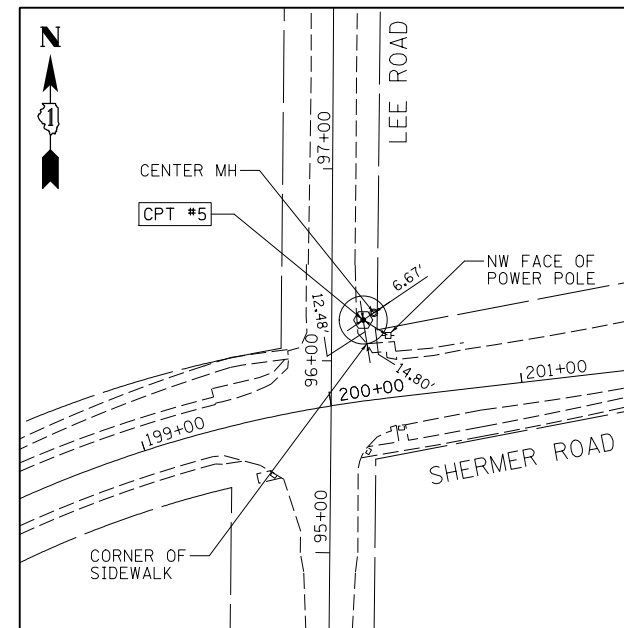
**CONTROL POINT #204**

CHISELED "X"  
 STA. 24+60.51, 29.46' LT  
 N 1993368.210  
 E 1126828.740  
 ELEV. 645.90



**CONTROL POINT #308**

MAG NAIL  
 STA. 103+15.67, 10.11' RT  
 N 1993748.720  
 E 1126380.710  
 ELEV. 645.42



**CONTROL POINT #5**

IRON ROD WITH CAP  
 STA. 96+21.40, 16.44' RT  
 N 1992964.920  
 E 1126382.340  
 ELEV. 652.58

**BENCHMARK "DS"**

ELEV. = 646.29  
 TOP OF NW BOLT OF LIGHT POLE OF THE  
 SW CORNER OF IL-68 (DUNDEE) & SHERMER ROADS

**BENCHMARK "A"**

ELEV. = 651.57  
 SPIKE SET IN NORTH FACE OF POWER POLE 150'  
 EAST OF BITTERSWEET DRIVE ON SOUTH SIDE OF IL-68

**BENCHMARK "B"**

ELEV. = 646.61  
 □ - CUT FOUND IN NORTHWEST CORNER OF CONCRETE  
 RETAINING WALL AT THE NORTH END OF CONCRETE  
 CULVERT OF DES PLAINS

**BENCHMARK "C"**

ELEV. = 656.73  
 SOUTHEAST BOLT IN TOP RIM OF FIRE HYDRANT, 200'  
 SOUTH OF SHERMER ROAD

**BENCHMARK "D"**

ELEV. = 647.38  
 SOUTHEAST BOLT OF FIRE HYDRANT ON WEST SIDE OF  
 LEE ROAD

**BENCHMARK "E"**

ELEV. = 647.74  
 SPIKE END IN SOUTH FACE OF POWER POLE AT  
 SOUTHWEST CORNER OF IL 68 & SHERMER ROAD

MODEL NAME: D:\road\...  
 FILE NAME: F:\21256 IL 68\DRAWINGS\CADD\BENCHM.DWG



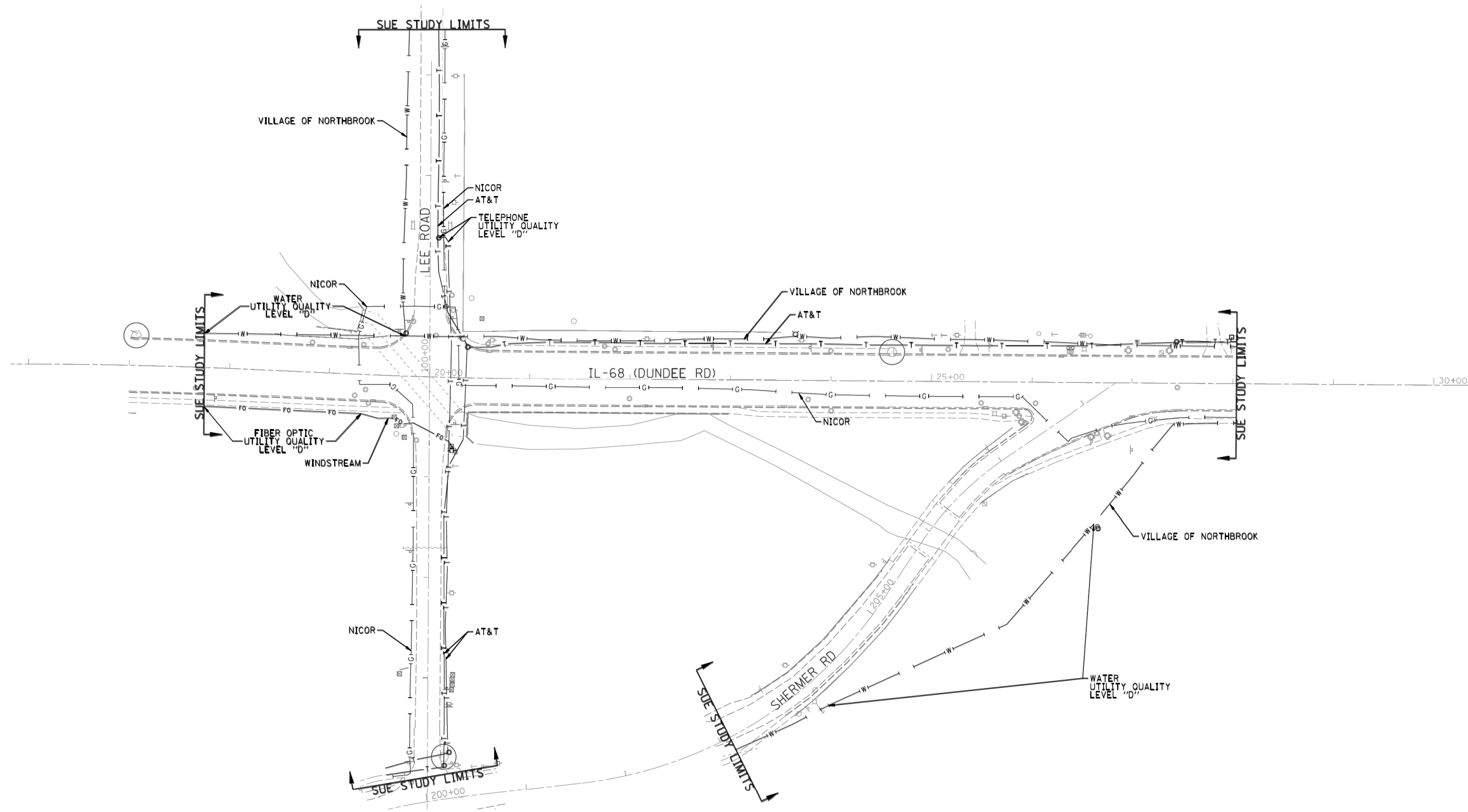
USER NAME = jandrews	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES & BENCHMARKS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	26
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



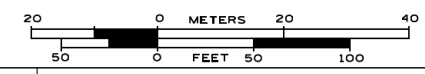
FILENAME = F:\3-1296 IL 68\DRAWINGS\CADD\Sheets\0160J13-SUE.dgn

— A — A —	AERIAL
— O — O —	UNKNOWN
— CTV — CTV —	OIL
— T — T —	CABLE TV
— G — G —	TELEPHONE
— E — E —	GAS
— W — W —	ELECTRIC
— FO — FO —	WATER
— FO — FO —	FIBER OPTIC
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T - TELEPHONE	
NICOR - GAS	
VILLAGE OF NORTHBROOK - WATER	
WINDSTREAM - FIBER OPTIC	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 7/01/14 through 9/05/14. Changes to utilities after 9/05/14 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510612  
SUE Plan Page: 1 of 1



USER NAME = jandrews  
PLOT SCALE = N/A  
PLOT DATE = 8/23/2017

DESIGNED -	REVISED
CHECKED -	REVISED
DRAWN -	REVISED
CHECKED -	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION




IL 68 AT MFNB CHICAGO RIVER  
NORTHBROOK, ILLINOIS

SHEET NO. 1 OF 1 SHEETS

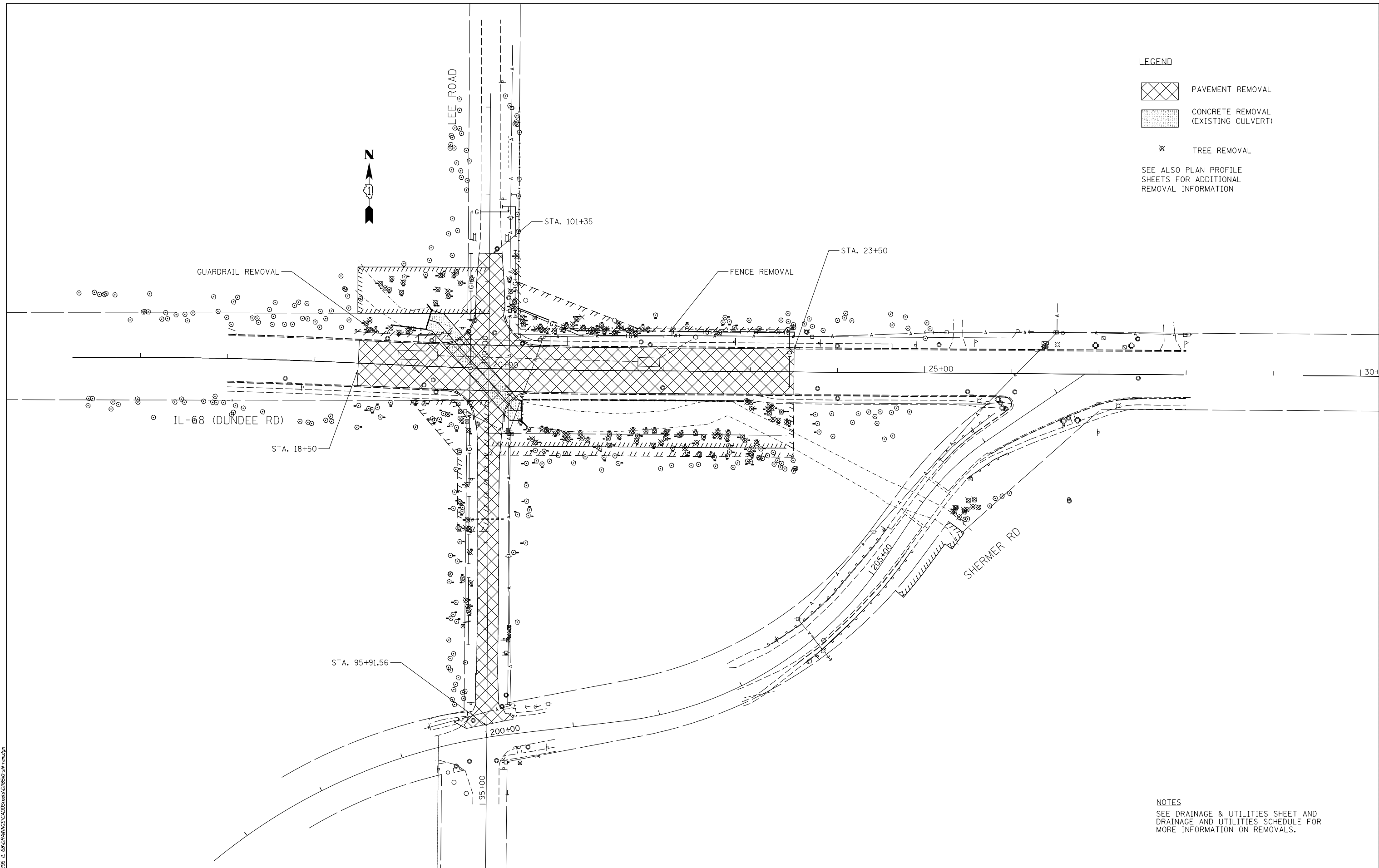
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	27
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT

LEGEND

-  PAVEMENT REMOVAL
-  CONCRETE REMOVAL (EXISTING CULVERT)
-  TREE REMOVAL

SEE ALSO PLAN PROFILE SHEETS FOR ADDITIONAL REMOVAL INFORMATION



NOTES  
SEE DRAINAGE & UTILITIES SHEET AND DRAINAGE AND UTILITIES SCHEDULE FOR MORE INFORMATION ON REMOVALS.

MODEL NAME: D:\road\...  
 FILE NAME: F:\256 IL 68\DRAWINGS\CADD\Sheets\01850.dwg renadp



USER NAME = jandrews	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN**

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

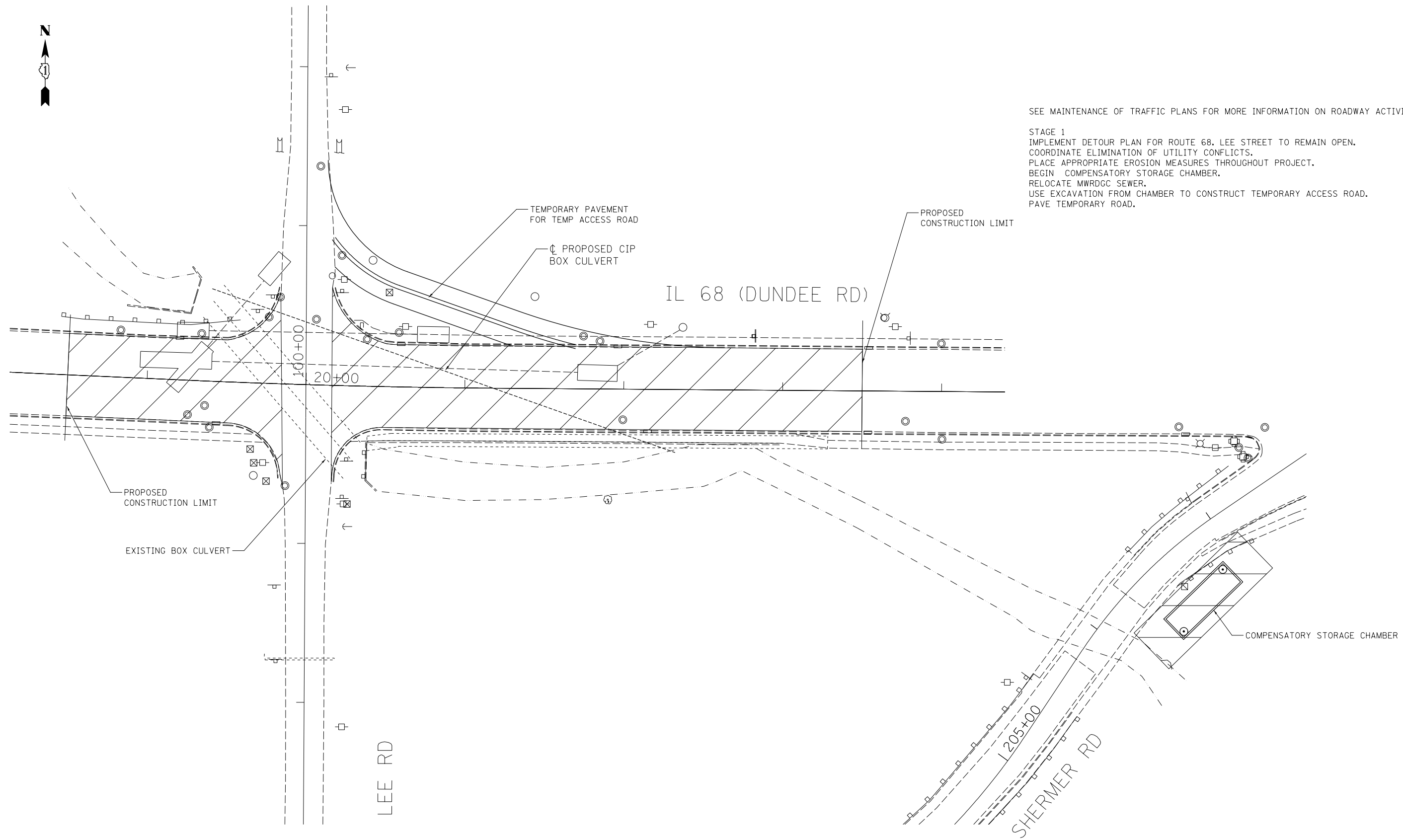
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30 T-1	COOK	140	28
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				





SEE MAINTENANCE OF TRAFFIC PLANS FOR MORE INFORMATION ON ROADWAY ACTIVITIES.

STAGE 1  
 IMPLEMENT DETOUR PLAN FOR ROUTE 68. LEE STREET TO REMAIN OPEN.  
 COORDINATE ELIMINATION OF UTILITY CONFLICTS.  
 PLACE APPROPRIATE EROSION MEASURES THROUGHOUT PROJECT.  
 BEGIN COMPENSATORY STORAGE CHAMBER.  
 RELOCATE MWRDGC SEWER.  
 USE EXCAVATION FROM CHAMBER TO CONSTRUCT TEMPORARY ACCESS ROAD.  
 PAVE TEMPORARY ROAD.



STAGE 1

FILE NAME: F:\31236 IL 68\DRAWINGS\CADD\Sheet\01650.dwg - 8/23/2017



USER NAME = jandrews	DESIGNED -	REVISED -
PLOT SCALE = 60.0000' / in.	DRAWN - BL	REVISED -
PLOT DATE = 8/23/2017	CHECKED - MMO	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

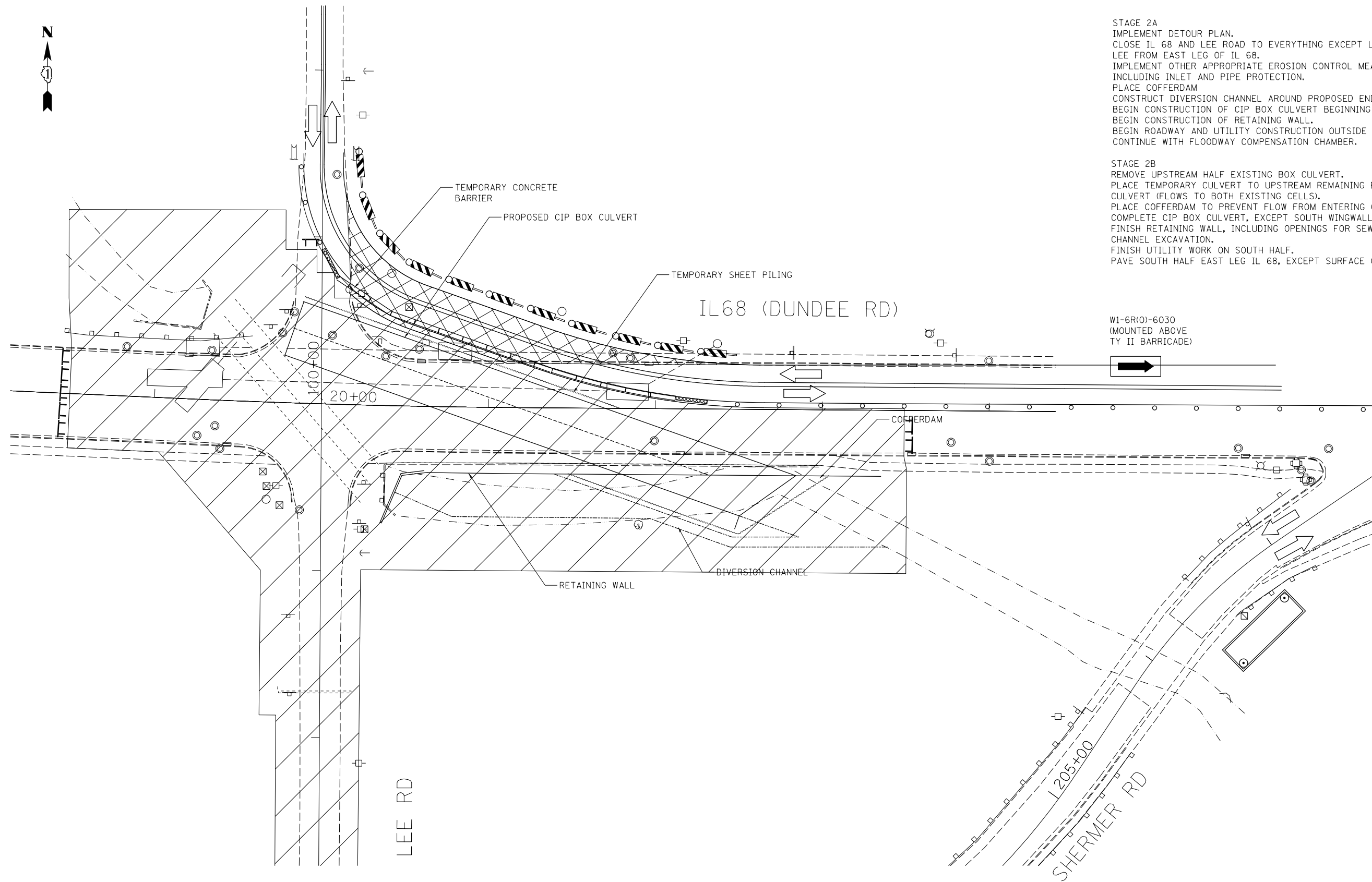
SUGGESTED STAGES OF CONSTRUCTION			
SCALE: 1" = 30'	SHEET 1	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T - 1	COOK	140	29
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



STAGE 2A  
 IMPLEMENT DETOUR PLAN.  
 CLOSE IL 68 AND LEE ROAD TO EVERYTHING EXCEPT LOCAL ACCESS TO NORTH LEG OF LEE FROM EAST LEG OF IL 68.  
 IMPLEMENT OTHER APPROPRIATE EROSION CONTROL MEASURES, INCLUDING INLET AND PIPE PROTECTION.  
 PLACE COFFERDAM  
 CONSTRUCT DIVERSION CHANNEL AROUND PROPOSED END OF CIP CULVERT  
 BEGIN CONSTRUCTION OF CIP BOX CULVERT BEGINNING AT DOWNSTREAM END.  
 BEGIN CONSTRUCTION OF RETAINING WALL.  
 BEGIN ROADWAY AND UTILITY CONSTRUCTION OUTSIDE OF TRAFFIC.  
 CONTINUE WITH FLOODWAY COMPENSATION CHAMBER.

STAGE 2B  
 REMOVE UPSTREAM HALF EXISTING BOX CULVERT.  
 PLACE TEMPORARY CULVERT TO UPSTREAM REMAINING END OF EXISTING BOX CULVERT (FLOWS TO BOTH EXISTING CELLS).  
 PLACE COFFERDAM TO PREVENT FLOW FROM ENTERING CULVERT WORK ZONE.  
 COMPLETE CIP BOX CULVERT, EXCEPT SOUTH WINGWALL AT WEST END  
 FINISH RETAINING WALL, INCLUDING OPENINGS FOR SEWERS.  
 CHANNEL EXCAVATION.  
 FINISH UTILITY WORK ON SOUTH HALF.  
 PAVE SOUTH HALF EAST LEG IL 68, EXCEPT SURFACE COURSE.



W1-6R(0)-6030  
 (MOUNTED ABOVE  
 TY II BARRICADE)

LEE RD

IL68 (DUNDEE RD)

SHERMER RD

STAGE 2A

FILE NAME: F:\31236 IL 68\DRAWINGS\CADD\Sheet\01850.dwg - 8/23/17

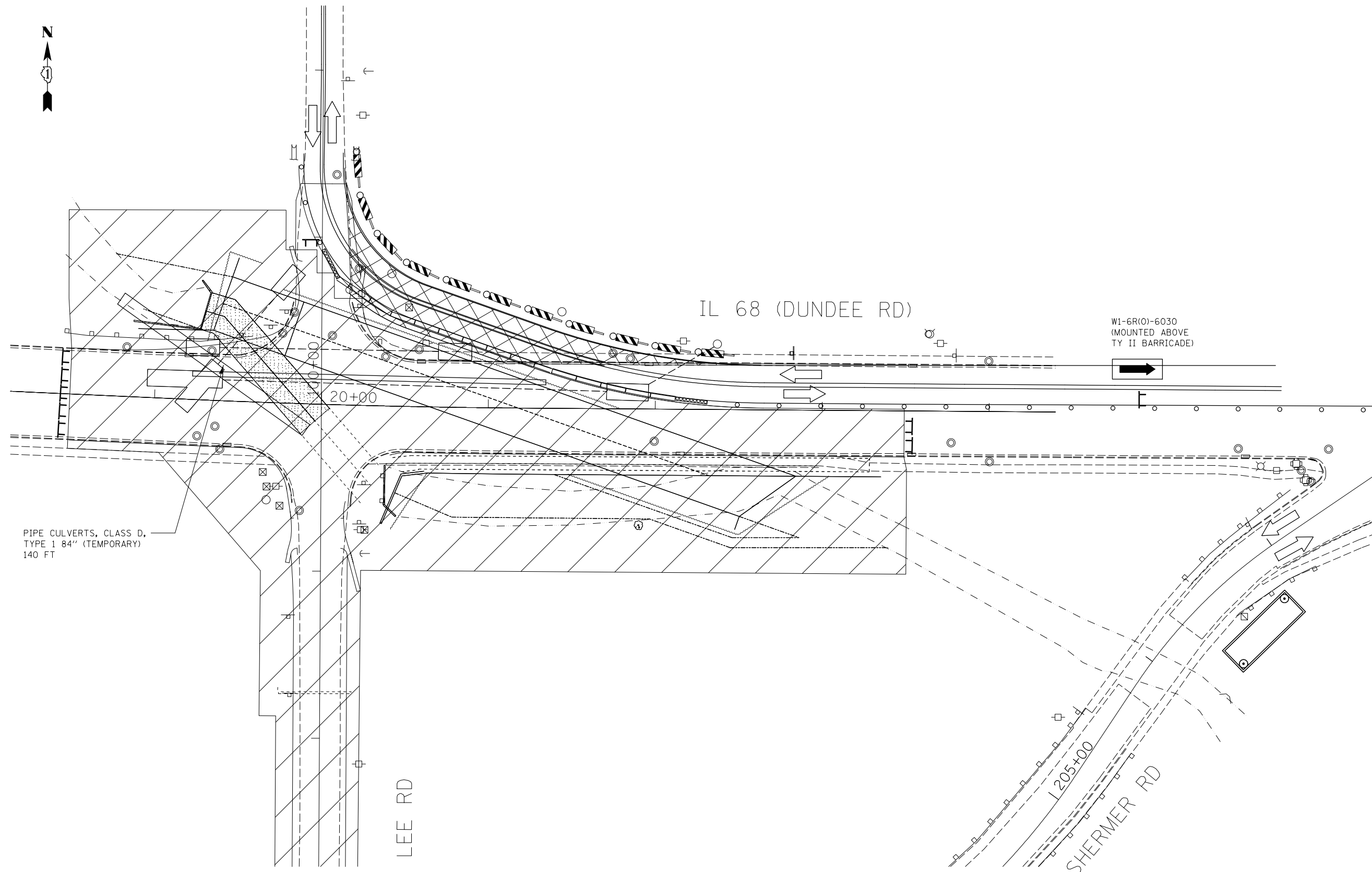


USER NAME = jandrews	DESIGNED -	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 60.0000' / in.	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION			
SCALE: 1" = 30'	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T - 1	COOK	140	30
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



PIPE CULVERTS, CLASS D,  
TYPE 1 84" (TEMPORARY)  
140 FT

IL 68 (DUNDEE RD)

W1-6R(0)-6030  
(MOUNTED ABOVE  
TY II BARRICADE)

LEE RD

205+00

SHERMER RD

STAGE 2B

FILE NAME: F:\31236\1\_60\DRAWINGS\CADD\Schematics\01850.dwg - 8/23/2017



USER NAME = jandrews	DESIGNED -	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 60.0000' / in.	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

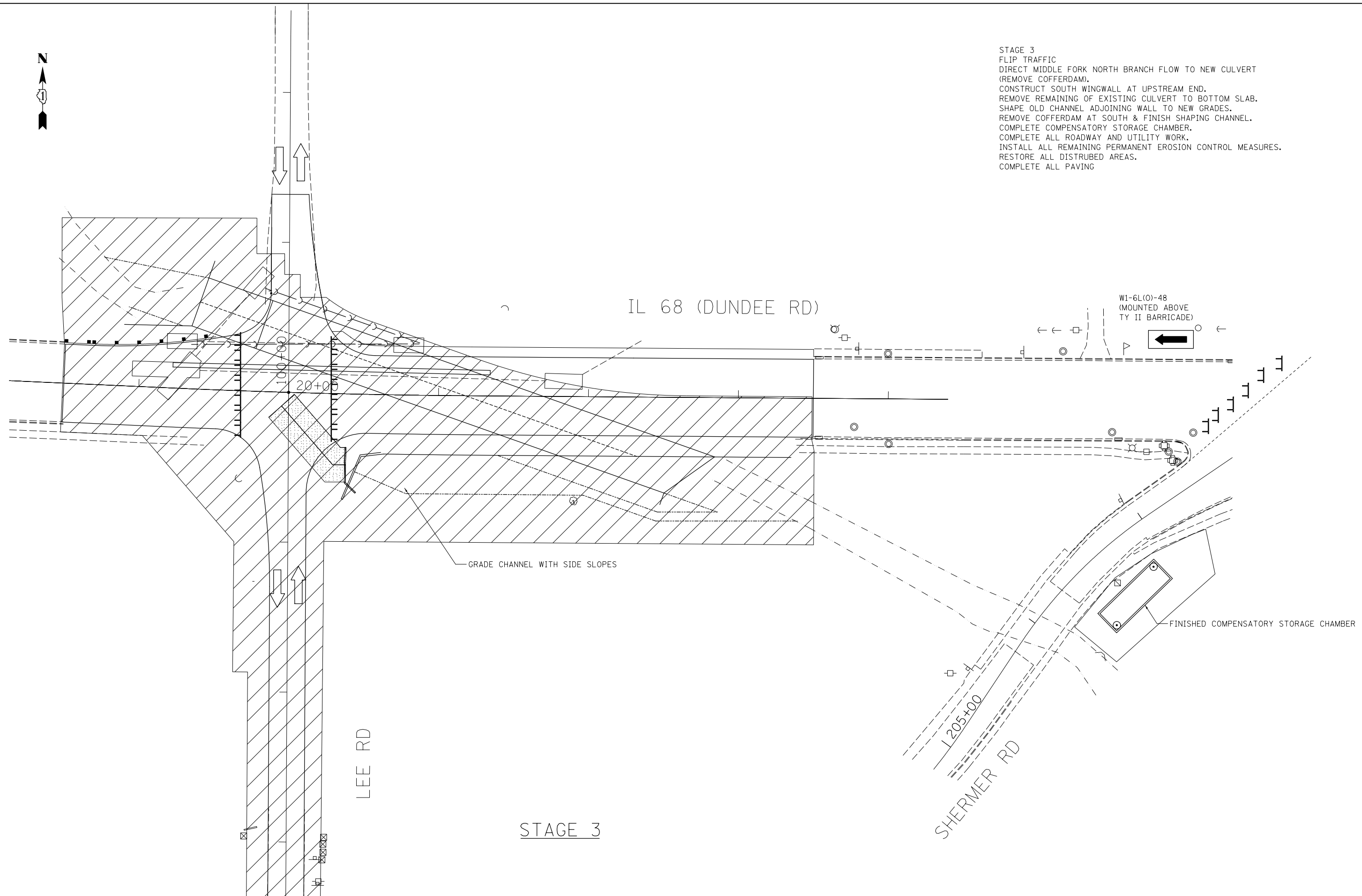
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION			
SCALE: 1" = 30'	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T - 1	COOK	140	31
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



STAGE 3  
 FLIP TRAFFIC  
 DIRECT MIDDLE FORK NORTH BRANCH FLOW TO NEW CULVERT  
 (REMOVE COFFERDAM).  
 CONSTRUCT SOUTH WINGWALL AT UPSTREAM END.  
 REMOVE REMAINING OF EXISTING CULVERT TO BOTTOM SLAB.  
 SHAPE OLD CHANNEL ADJOINING WALL TO NEW GRADES.  
 REMOVE COFFERDAM AT SOUTH & FINISH SHAPING CHANNEL.  
 COMPLETE COMPENSATORY STORAGE CHAMBER.  
 COMPLETE ALL ROADWAY AND UTILITY WORK.  
 INSTALL ALL REMAINING PERMANENT EROSION CONTROL MEASURES.  
 RESTORE ALL DISTURBED AREAS.  
 COMPLETE ALL PAVING



STAGE 3

FILE NAME = F:\3\236 IL 68\DRAWINGS\CADD\Sheet\01650.dwg - 8/23/17



USER NAME = jandrews	DESIGNED -	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 60.0000' / in.	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION			
SCALE: 1" = 30'	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T - 1	COOK	140	32
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

**MAINTENANCE OF TRAFFIC GENERAL NOTES**

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 11' THRU LANE IN EACH DIRECTION FOR TWO-WAY TRAFFIC FLOW ALONG ILLINOIS ROUTE 68 DURING PRESTAGE 1 & STAGES 1 & 3. DURING STAGE 2 THE CONTRACTOR MAY UTILIZE TEMPORARY ONE-WAY FLAGGING OPERATION ALONG IL ROUTE 68 BETWEEN LEE ROAD AND SHERMER ROAD, BUT AT THE END OF EACH DAY A MINIMUM OF ONE 11' THRU LANE IN EACH DIRECTION FOR TWO-WAY TRAFFIC FLOW MUST BE MAINTAINED.
2. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STATE STANDARDS, STANDARDS SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
4. THE CONTRACTOR SHALL CONTACT THE ILLINOIS DEPARTMENT OF TRANSPORTATION ARTERIAL TRAFFIC SUPERVISOR AT (847) 705-4470 AND THE VILLAGE OF NORTHBROOK CHIEF OF POLICE AT (847) 564-2060 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
5. TEMPORARY LANE CLOSURES ALONG ILLINOIS ROUTE 68, FOR ANY REASON, SHALL BE RESTRICTED TO THE WEEKDAY HOURS OF 9:00 AM TO 3:30 PM, OR AS APPROVED IN ADVANCE BY THE ENGINEER.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND STAGES OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE PLANS. THE CONTRACTOR SHALL COORDINATE ANY SHORT TERM DRIVEWAY CLOSURE WITH THE ENGINEER AND THE IMPACTED PROPERTY OWNER.
7. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED ON ALL FINAL PAVEMENT WEARING SURFACES. TEMPORARY PAVEMENT MARKING PAINT SHALL BE USED ELSEWHERE.
8. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL.
9. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE ALL REFLECTORS FROM EXISTING RAISED REFLECTIVE PAVEMENT MARKERS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL.
10. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES FOR ONE PLACEMENT HAVE BEEN PROVIDED FOR EACH STAGE WHEN DIFFERENT THAN PREVIOUS STAGE. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO 7 DAYS OF SERVICE OR REPLACEMENT AFTER THE FIRST PLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.

**MAINTENANCE OF TRAFFIC GENERAL NOTES (CONTINUED)**

11. THE TEMPORARY ACCESS ROAD SHALL ADHERE TO THE TEMPORARY PAVEMENT SPECIAL PROVISION. TEMPORARY PAVEMENT FOR THE ACCESS ROAD SHALL CONSIST OF 10" FULL DEPTH TEMPORARY HMA PAVEMENT, 2" HMA SURFACE COURSE, MIX "D" N90, 8" HMA BINDER COURSE IL-19.0, N50, 4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6) OR 8" TEMPORARY PCC PAVEMENT, 4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6). TEMPORARY PAVEMENT FOR SHERMER ROAD SHALL CONSIST OF 8" FULL DEPTH TEMPORARY HMA PAVEMENT, 2" HMA SURFACE COURSE MIX "D", N50, 6" HMA BINDER COURSE, IL-19.0, N50, 4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6) OR 8" TEMPORARY PCC PAVEMENT, 4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6).
12. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL). ALL CONSTRUCTION SIGNS, BARRICADES, AND OTHER DEVICES REQUIRED TO CONTROL TRAFFIC SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR.
13. THE CONTRACTOR SHALL MAINTAIN EXISTING ROADWAY LIGHTING AT IL RTE 68 AND SHERMER ROAD DURING THE DURATION OF THE PROJECT.
14. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY.
15. THE DETOUR FOR IL ROUTE 68 SHALL BE ALLOWED FOR A MAXIMUM OF 26 WEEKS. THE CONTRACTOR SHALL COMPLETE ALL WORK REQUIRED TO OPEN IL ROUTE 68 BACK TO THRU TRAFFIC WITHIN THE SPECIFIED TIME PERIOD. IF THE ROADWAY IS NOT REOPENED WITHIN THE SPECIFIED TIME THE CONTRACTOR SHALL BE SUBJECT TO LIQUIDATED DAMAGES IN ACCORDANCE WITH THE SPECIAL PROVISION FOR FAILURE TO COMPLETE THE WORK ON TIME.
16. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED ON ALL APPROACHES TO THE PROPOSED IL ROUTE 68 DETOUR AT LOCATIONS DETERMINED BY THE ENGINEER AT LEAST TWO WEEKS PRIOR TO THE CLOSING OF IL ROUTE 68 AND SHALL REMAIN IN PLACE FOR THE DURATION OF THE DETOUR.

**MOT-1**

FILE NAME =	USER NAME = jandrews	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED CONSTRUCTION PROCEDURES AND MAINTENANCE OF TRAFFIC GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
F:\3-1296 IL 68\DRAWINGS\CADDSheets\Subconsultant Sheets\D118510-MOT.GN.dgn		CHECKED -	REVISED -			343	30T-1	COOK	140	33	
Default	PLOT SCALE = 20.0000' / in.	DATE -	REVISED -			SCALE: 1" = 10'		SHEET OF SHEETS		STA. TO STA.	CONTRACT NO. 60J13
	PLOT DATE = 8/25/2017							ILLINOIS FED. AID PROJECT			

**PRESTAGE 1 NOTES**

**PRESTAGE 1 TRAFFIC**

**IL ROUTE 68**

WESTBOUND AND EASTBOUND IL RTE 68:

MAINTAIN TWO THRU LANES OF TRAFFIC EASTBOUND AND ONE THRU LANE OF TRAFFIC WESTBOUND ON EXISTING PAVEMENT. ALSO MAINTAIN EASTBOUND & WESTBOUND LEFT TURN LANES AT LEE ROAD.

**LEE ROAD:**

NORTHBOUND AND SOUTHBOUND LEE ROAD:

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE EXISTING PAVEMENT SOUTH OF IL RTE 68.

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON EXISTING PAVEMENT NORTH OF IL RTE 68. TEMPORARY ONE-WAY FLAGGING ON NORTH LEG, MAINTAINING TRAFFIC IN SOUTHBOUND LANE, AS NECESSARY TO CONSTRUCT TEMPORARY PAVEMENT AT NORTHEAST QUADRANT OF INTERSECTION.

**SHERMER ROAD:**

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE EXISTING PAVEMENT.

TEMPORARY ONE-WAY FLAGGING, MAINTAINING TRAFFIC IN SOUTHBOUND LANE, AS NECESSARY TO CONSTRUCT TEMPORARY PAVEMENT SOUTH OF INTERSECTION WITH IL RTE 68.

CLOSE SIDEWALK ALONG EAST SIDE OF SHERMER ROAD FROM IL RTE 68 TO LEE ROAD.

**PRESTAGE 1 CONSTRUCTION**

**IL ROUTE 68**

NORTH SIDE OF IL RTE 68 EAST OF LEE ROAD; INSTALL STORM SEWER AT NORTHEAST QUADRANT OF INTERSECTION.

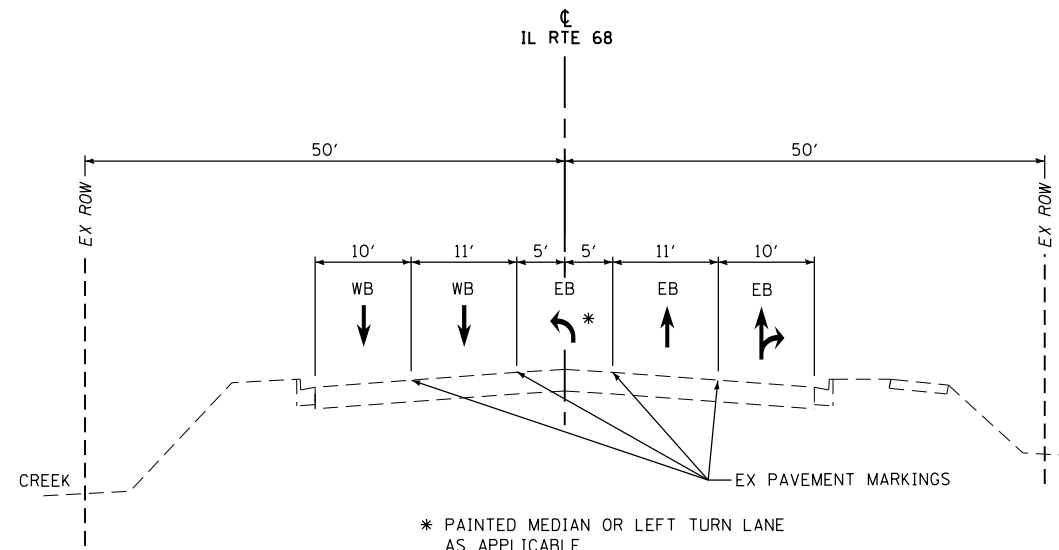
**LEE ROAD:**

EAST SIDE OF LEE ROAD NORTH OF IL RTE 68; CONSTRUCT TEMPORARY PAVEMENT AND STORM SEWER AT NORTHEAST QUADRANT OF INTERSECTION.

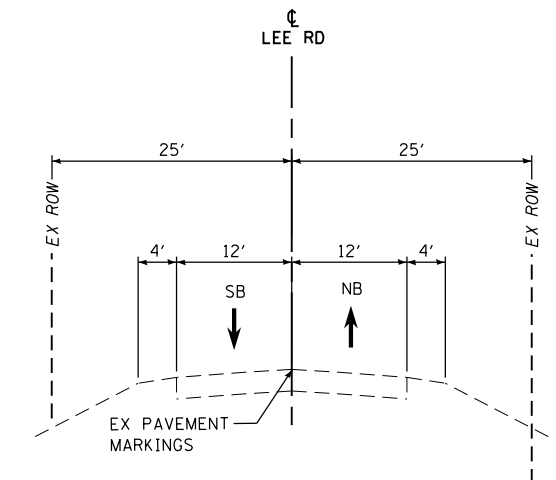
**SHERMER ROAD:**

INSTALL TEMPORARY TRAFFIC SIGNAL AT IL RTE 68 AND SHERMER ROAD.

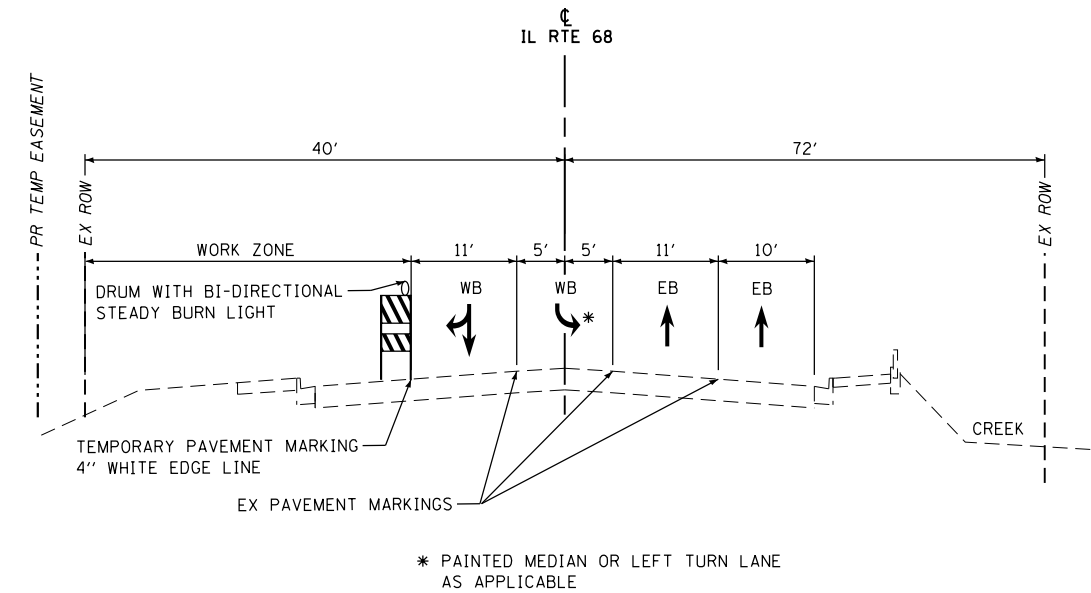
EAST SIDE OF SHERMER ROAD SOUTH OF IL RTE 68; CONSTRUCT COMPENSATORY STORAGE CHAMBER, TEMPORARY PAVEMENT, CURB AND GUTTER AND SIDEWALK.



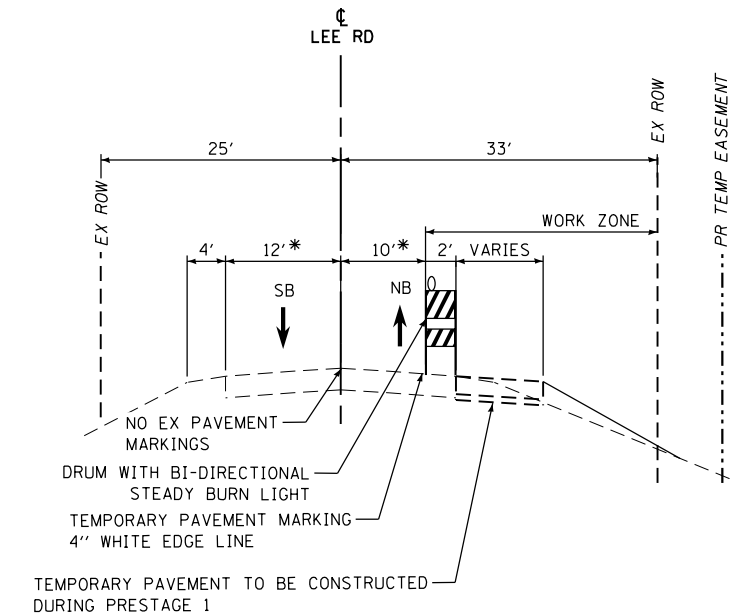
IL ROUTE 68 - TYPICAL SECTION  
PRESTAGE 1  
WEST OF LEE ROAD



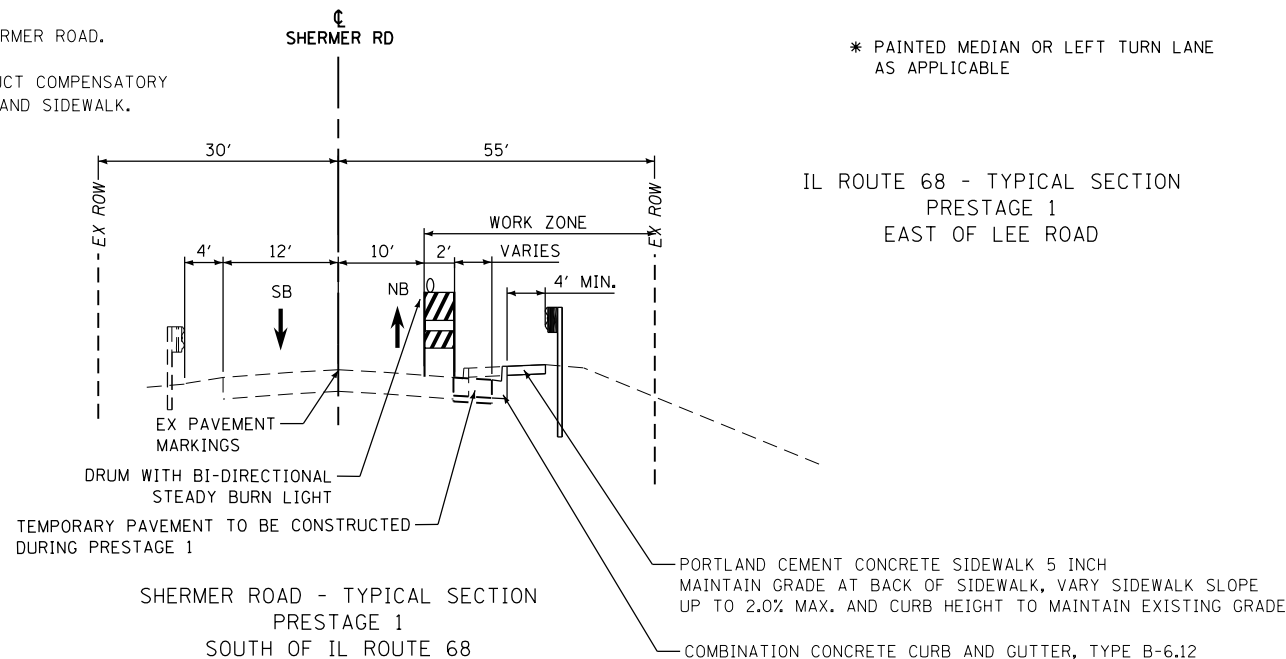
LEE ROAD - TYPICAL SECTION  
PRESTAGE 1  
SOUTH OF IL ROUTE 68



IL ROUTE 68 - TYPICAL SECTION  
PRESTAGE 1  
EAST OF LEE ROAD



LEE ROAD - TYPICAL SECTION  
PRESTAGE 1  
NORTH OF IL ROUTE 68



SHERMER ROAD - TYPICAL SECTION  
PRESTAGE 1  
SOUTH OF IL ROUTE 68

FILE NAME =	USER NAME = _USERNAME_	DESIGNED -	REVISED -
pw:\PW\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-MOTsect-PS1.dgn		REVISOR -	REVISOR -
	PLOT SCALE = #SCALE#	CHECKED -	REVISOR -
#MODELNAME#	PLOT DATE = 8/22/2017	DATE -	REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MOT TYPICAL SECTIONS - PRESTAGE 1  
IL ROUTE 68 OVER MF NB CHICAGO RIVER  
SCALE: 1" = 10' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	34
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

MOT-2

**STAGE 1 NOTES**

**STAGE 1 TRAFFIC**

IL ROUTE 68

WESTBOUND AND EASTBOUND IL RTE 68:

CLOSE IL RTE 68 TO THRU TRAFFIC BETWEEN IL RTE 43 AND SKOKIE BLVD. LOCAL TRAFFIC ONLY ALONG IL RTE 68 BETWEEN IL RTE 43 AND BITTERSWEET DR. LOCAL TRAFFIC ONLY IL RTE 68 BETWEEN SHERMER RD AND SKOKIE BLVD.

IL RTE 68 SHALL BE CLOSED FROM WEST OF LEE ROAD TO LEE ROAD AND FROM LEE ROAD TO SHERMER ROAD.

PROVIDE DETOUR FOR IL RTE 68 BETWEEN IL RTE 43 AND SKOKIE BLVD. EASTBOUND TRAFFIC ON IL RTE 68 DETOURED NORTH ON IL RTE 43 FOR 1.1 MILES, EAST ON LAKE COOK ROAD FOR 1.7 MILES, AND SOUTH ON SKOKIE BLVD FOR 1.1 MILES TO IL RTE 68. WESTBOUND TRAFFIC WILL TAKE THE REVERSE TRIP. SEE PLAN SHEET DET-1.

CLOSE SIDEWALK ALONG NORTH & SOUTH SIDE OF IL RTE 68. PROVIDE PEDESTRAIN DETOUR DURING STAGE 1 VIA SHERMER ROAD AND IL RTE 43.

LEE ROAD:

NORTHBOUND AND SOUTHBOUND LEE ROAD:

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON EXISTING PAVEMENT AND TEMPORARY PAVEMENT CONSTRUCTED DURING PRESTAGE 1.

SHERMER ROAD:

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE EXISTING PAVEMENT. OPEN SIDEWALK ALONG EAST SIDE OF SHERMER RD.

**STAGE 1 CONSTRUCTION**

IL ROUTE 68

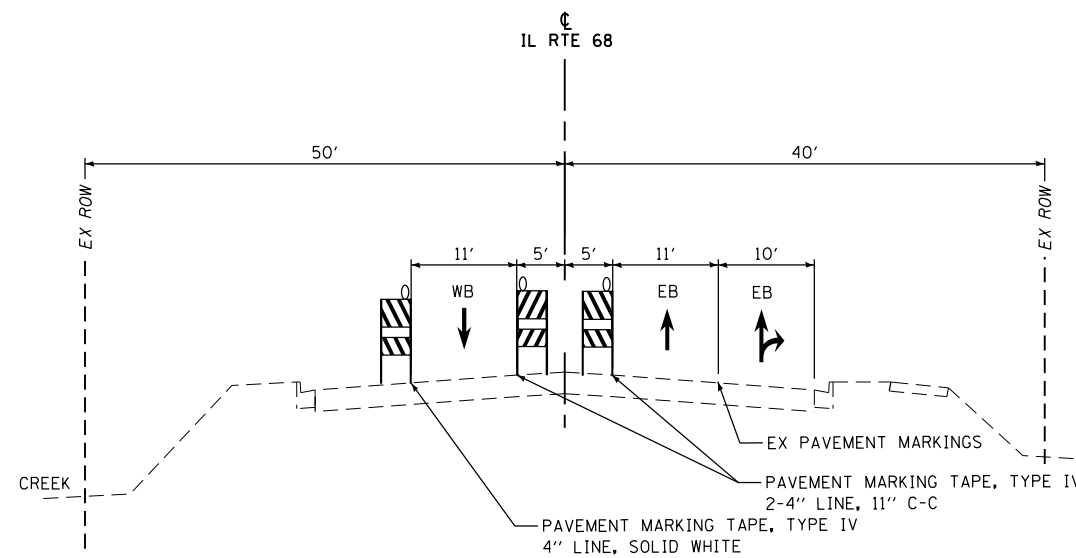
CONSTRUCT STORM SEWER, WATER MAIN & SANITARY SEWER. REMOVE EXISTING CULVERTS DOWNSTREAM HEADWALL AND CONSTRUCT PROPOSED CULVERTS DOWNSTREAM HEADWALL. CONSTRUCT TEMPORARY ACCESS ROAD IN NORTHEAST PART OF INTERSECTION WITH LEE ROAD.

LEE ROAD:

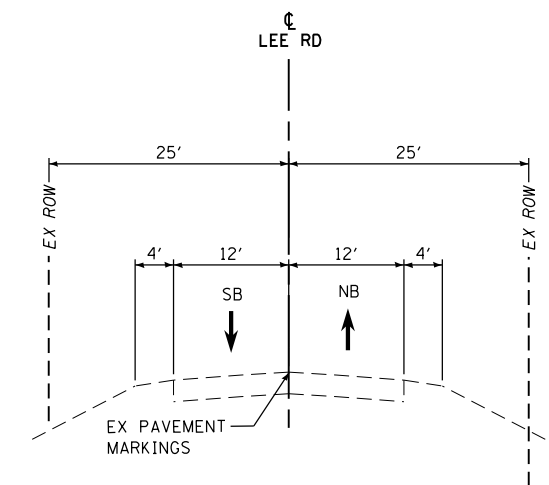
NO WORK ON LEE ROAD.

SHERMER ROAD:

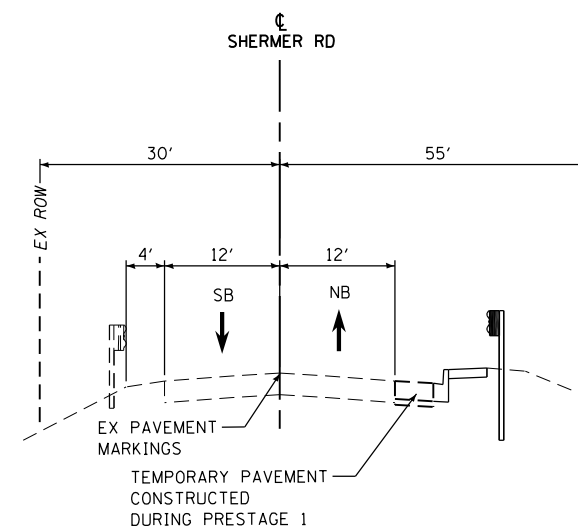
NO WORK ON SHERMER ROAD.



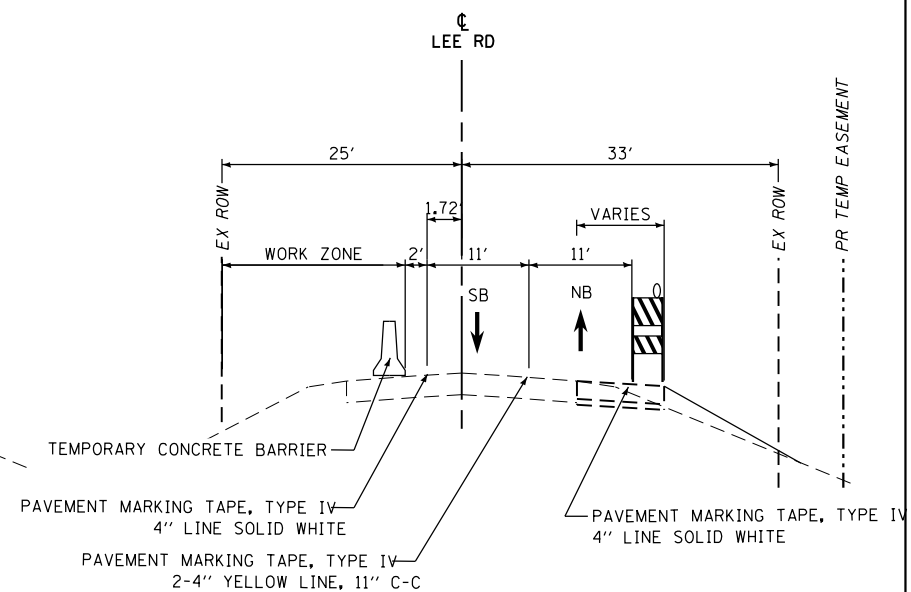
IL ROUTE 68 - TYPICAL SECTION  
STAGE 1  
EAST OF SHERMER ROAD



LEE ROAD - TYPICAL SECTION  
STAGE 1  
SOUTH OF IL ROUTE 68



SHERMER ROAD - TYPICAL SECTION  
STAGE 1  
SOUTH OF IL ROUTE 68



LEE ROAD - TYPICAL SECTION  
STAGE 1  
NORTH OF IL ROUTE 68

FILE NAME =	USER NAME = .USERNAME.	DESIGNED -	REVISED -
p:\p\pwl\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-MOTsect-1.dgn		REVISED -	
*MODELNAME*	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MOT TYPICAL SECTIONS - STAGE 1  
IL ROUTE 68 OVER MF NB CHICAGO RIVER  
SCALE: 1" = 10' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	35
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

MOT-3

**STAGE 2 NOTES**

**STAGE 2 TRAFFIC**

IL ROUTE 68

WESTBOUND AND EASTBOUND IL RTE 68:

CLOSE IL RTE 68 TO THRU TRAFFIC BETWEEN IL RTE 43 AND SKOKIE BLVD. LOCAL TRAFFIC ONLY ALONG IL RTE 68 BETWEEN IL RTE 43 AND BITTERSWEET DR. LOCAL TRAFFIC ONLY IL RTE 68 BETWEEN SHERMER RD AND SKOKIE BLVD.

IL RTE 68 SHALL BE CLOSED AT LEE RD, MAINTAINING TRAFFIC TO NORTH LEG OF LEE RD FOR TRAFFIC TO/FROM THE EAST VIA TEMPORARY ACCESS ROAD AT NORTHEAST QUADRANT OF INTERSECTION AND ONE LANE OF TRAFFIC IN EACH DIRECTION BETWEEN LEE ROAD AND SHERMER ROAD ON EXISTING WESTBOUND LANES.

PROVIDE DETOUR FOR IL RTE 68 BETWEEN IL RTE 43 AND SKOKIE BLVD. EASTBOUND TRAFFIC ON IL RTE 68 DETOURED NORTH ON IL RTE 43 FOR 1.1 MILES, EAST ON LAKE COOK ROAD FOR 1.7 MILES, AND SOUTH ON SKOKIE BLVD FOR 1.1 MILES TO IL RTE 68. WESTBOUND TRAFFIC WILL TAKE THE REVERSE TRIP. SEE PLAN SHEET DET-1.

CLOSE SIDEWALK ALONG SOUTH & NORTH SIDE OF IL RTE 68. PROVIDE PEDESTRAIN DETOUR DURING STAGE 2 VIA SHERMER ROAD AND IL RTE 43.

LEE ROAD:

NORTHBOUND AND SOUTHBOUND LEE ROAD:

LEE ROAD SHALL BE CLOSED BETWEEN IL RTE 68 AND SHERMER RD. ACCESS DOES NOT NEED TO BE MAINTAINED TO LEE ROAD BETWEEN IL RTE 68 AND SHERMER ROAD.

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON EXISTING PAVEMENT NORTH OF IL RTE 68. ACCESS TO NORTH LEG OF LEE RD FOR TRAFFIC TO/FROM THE EAST ONLY VIA TEMPORARY ACCESS ROAD CONSTRUCTED IN PRESTAGE 1 AT NORTHEAST QUADRANT OF INTERSECTION.

SHERMER ROAD:

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE EXISTING PAVEMENT. PROVIDE LEFT AND RIGHT TURN LANES FOR NORTHBOUND TRAFFIC AT IL RTE 68.

**STAGE 2 CONSTRUCTION**

IL ROUTE 68

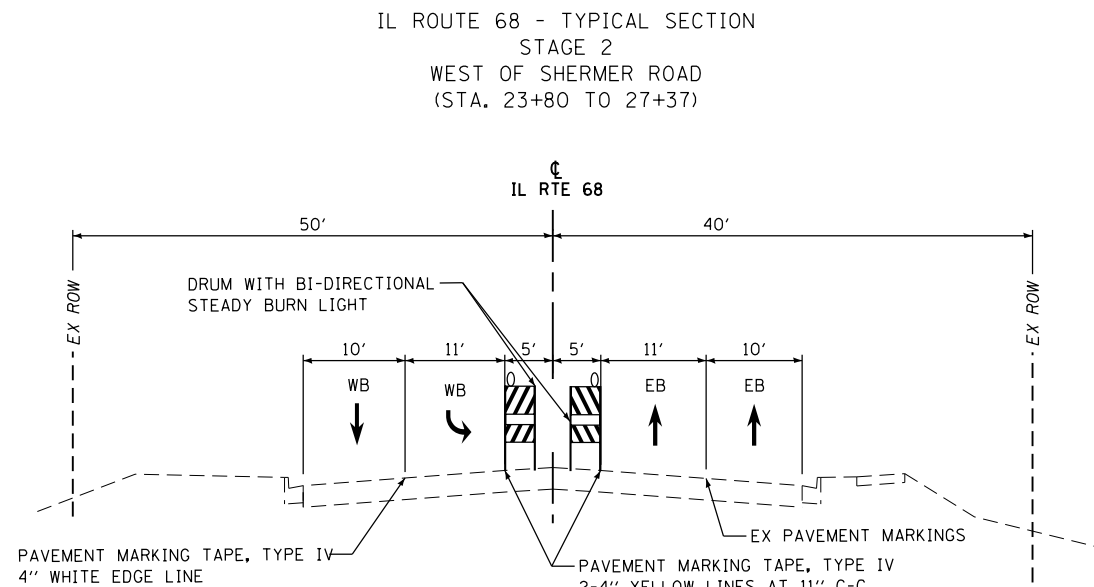
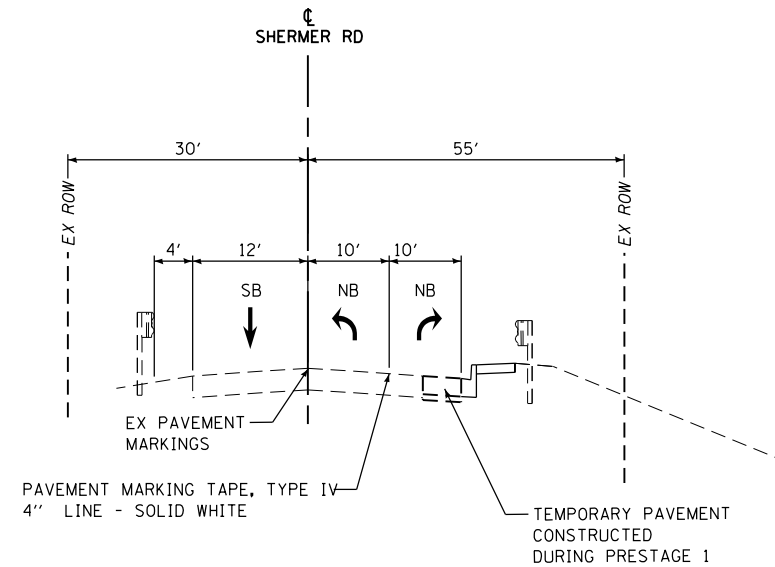
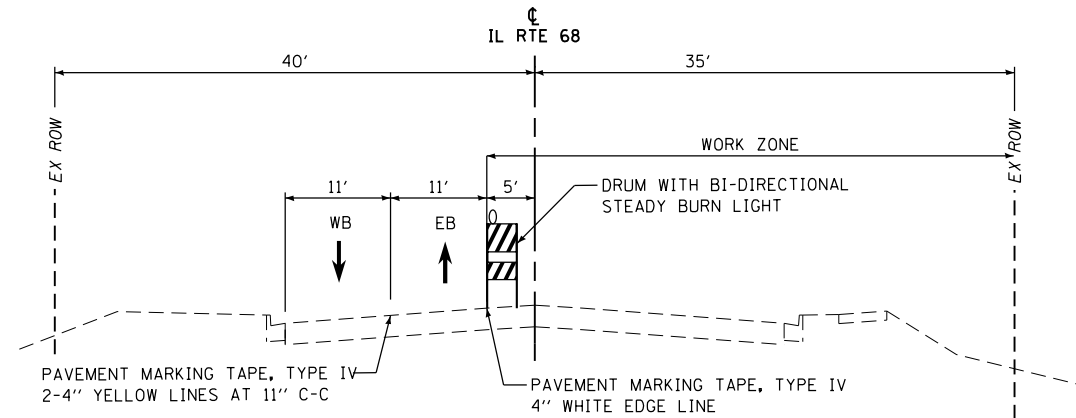
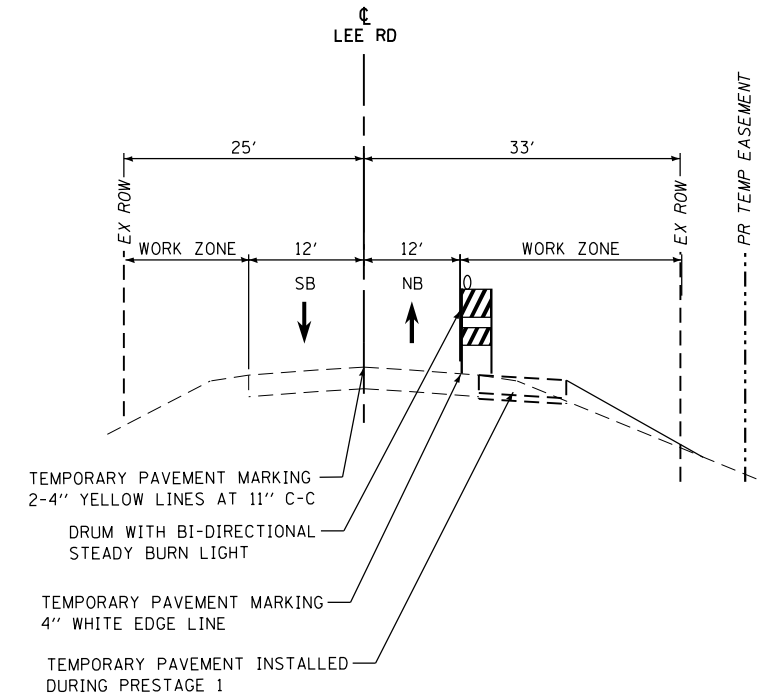
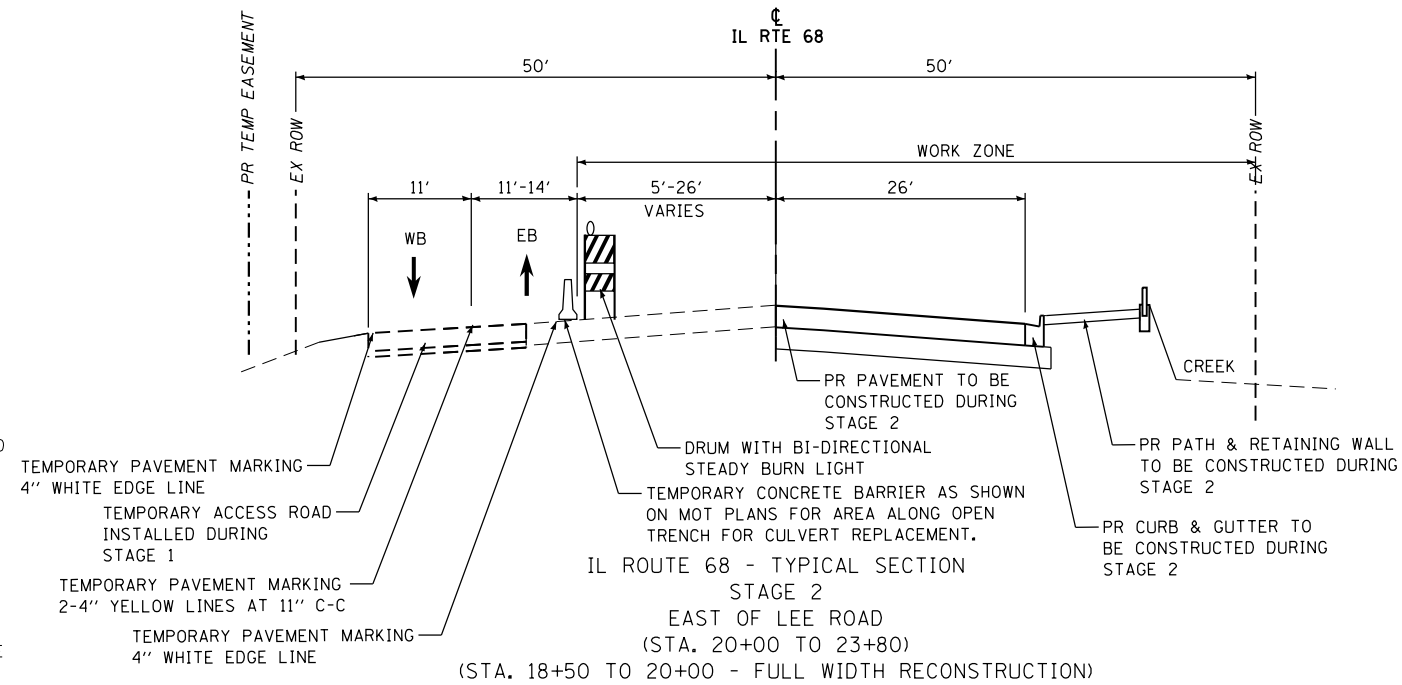
TOTAL RECONSTRUCTION OF IL RTE 68 BETWEEN STA. 18+50 TO 23+50 EXCEPT TWO WESTBOUND LANES EAST OF PROPOSED CULVERT INSTALLATION. WORK INCLUDES PAVEMENT REMOVAL, PROPOSED PAVEMENT, CURB & GUTTER, SIDEWALKS, CULVERT REPLACEMENT, DRAINAGE IMPROVEMENTS AND RETAINING WALL.

LEE ROAD:

TOTAL RECONSTRUCTION OF LEE ROAD BETWEEN IL RTE 68 AND SHERMER RD INCLUDING: EXISTING PAVEMENT REMOVAL, PROPOSED PAVEMENT, SHOULDER AND DITCH GRADING.

SHERMER ROAD:

NO WORK ON SHERMER ROAD.



IL ROUTE 68 - TYPICAL SECTION STAGE 2 EAST OF SHERMER ROAD

SHERMER ROAD - TYPICAL SECTION STAGE 2 SOUTH OF IL ROUTE 68

FILE NAME =	USER NAME = .USERNAME.	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MOT TYPICAL SECTIONS - STAGE 2 IL ROUTE 68 OVER MF NB CHICAGO RIVER</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\PWL\dzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\01181\10-MOTsect-2.dgn		REVISOR -	REVISED -			343	30T-1	COOK	140	36
PLOT SCALE = *SCALE*		CHECKED -	REVISED -			CONTRACT NO. 60J13				
*MODELNAME*	PLOT DATE = 8/22/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

MOT-4

SCALE: 1" = 10' SHEET OF SHEETS STA. TO STA.



**STAGE 3 TRAFFIC**

IL ROUTE 68

WESTBOUND AND EASTBOUND IL RTE 68:

CLOSE IL RTE 68 TO THRU TRAFFIC BETWEEN IL RTE 43 AND SKOKIE BLVD. LOCAL TRAFFIC ONLY ALONG IL RTE 68 BETWEEN IL RTE 43 AND BITTERSWEET DR. LOCAL TRAFFIC ONLY IL RTE 68 BETWEEN SHERMER RD AND SKOKIE BLVD.

IL RTE 68 SHALL BE CLOSED FROM WEST OF LEE ROAD TO LEE ROAD AND FROM LEE ROAD TO SHERMER ROAD.

PROVIDE DETOUR FOR IL RTE 68 BETWEEN IL RTE 43 AND SKOKIE BLVD. EASTBOUND TRAFFIC ON IL RTE 68 DETOURED NORTH ON IL RTE 43 FOR 1.1 MILES, EAST ON LAKE COOK ROAD FOR 1.7 MILES, AND SOUTH ON SKOKIE BLVD FOR 1.1 MILES TO IL RTE 68. WESTBOUND TRAFFIC WILL TAKE THE REVERSE TRIP. SEE PLAN SHEET DET-1.

CLOSE SIDEWALK ALONG NORTH & SOUTH SIDE OF IL RTE 68. PROVIDE PEDESTRAIN DETOUR DURING STAGE 3 VIA SHERMER ROAD AND IL RTE 43.

LEE ROAD:

OPEN LEE ROAD FROM BETWEEN SHERMER ROAD AND IL RTE 68 AND MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION. SHIFT TRAFFIC EAST, NORTH OF IL RTE 68 TO CONSTRUCT WEST SIDE OF LEE ROAD.

SHERMER ROAD:

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE EXISTING PAVEMENT.

**STAGE 3 CONSTRUCTION**

IL ROUTE 68

RECONSTRUCTION OF THE BALANCE OF IL RTE 68 INCLUDING THE TWO WESTBOUND LANES EAST OF PROPOSED CULVERT INSTALLATION. WORK INCLUDES PAVEMENT REMOVAL, PROPOSED PAVEMENT, CURB & GUTTER, SIDEWALKS AND DRAINAGE IMPROVEMENTS.

LEE ROAD:

RECONSTRUCT THE WEST SIDE OF LEE RD NORTH OF IL 68. WORK INCLUDES PAVEMENT REMOVAL, PROPOSED PAVEMENT, CURB AND GUTTER, SHOULDERS AND DRAINAGE IMPROVEMENTS.

NOTE: SUB-STAGES 3A & 3B REQUIRED FOR RECONSTRUCTION OF LEE ROAD SOUTH OF STA. 101+10. THIS WORK SHALL BE COMPLETED PRIOR TO THE MILLING & RESURFACING OPERATIONS NORTH OF STA. 101+10 REQUIRED IN STAGE 3.

**STAGE 3A TRAFFIC (LEE ROAD ONLY)**

LEE ROAD:

MAINTAIN NORTHBOUND TRAFFIC IN SAME LOCATION AS IN STAGE 3 AND SHIFT SOUTHBOUND TRAFFIC TO THE PAVEMENT CONSTRUCTED IN STAGE 3

**STAGE 3A CONSTRUCTION**

LEE ROAD:

RECONSTRUCT MIDDLE OF LEE ROAD FROM IL RTE 68 TO STATION 101+10.

**STAGE 3B TRAFFIC (LEE ROAD ONLY)**

LEE ROAD:

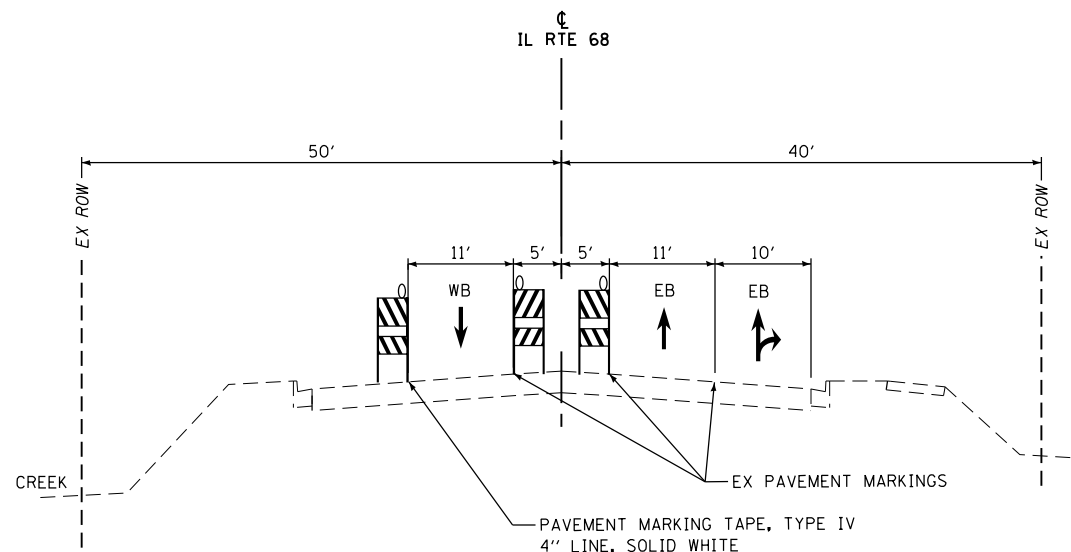
MAINTAIN SOUTHBOUND TRAFFIC IN SAME LOCATION AS IN STAGE 3A AND SHIFT NORHBOUND TRAFFIC TO THE PAVEMENT CONSTRUCTED IN STAGE 3A.

MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON EXISTING PAVEMENT NORTH OF IL RTE 68 WITH TEMPORARY ONE-WAY FLAGGING OPERATION DURING COLD MILLING AND RESURFACING OPERATIONS.

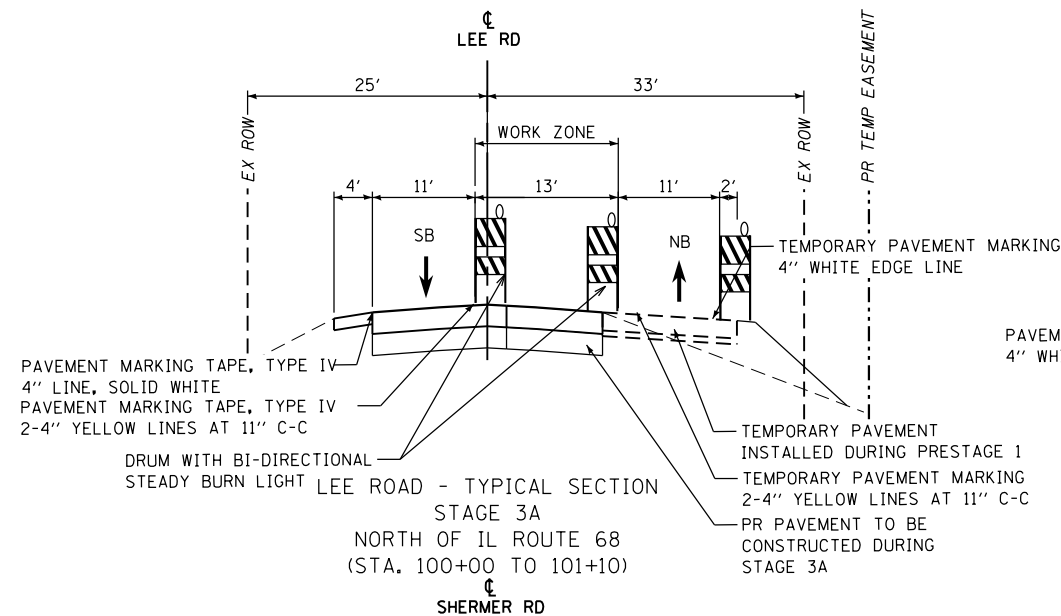
**STAGE 3B CONSTRUCTION**

LEE ROAD:

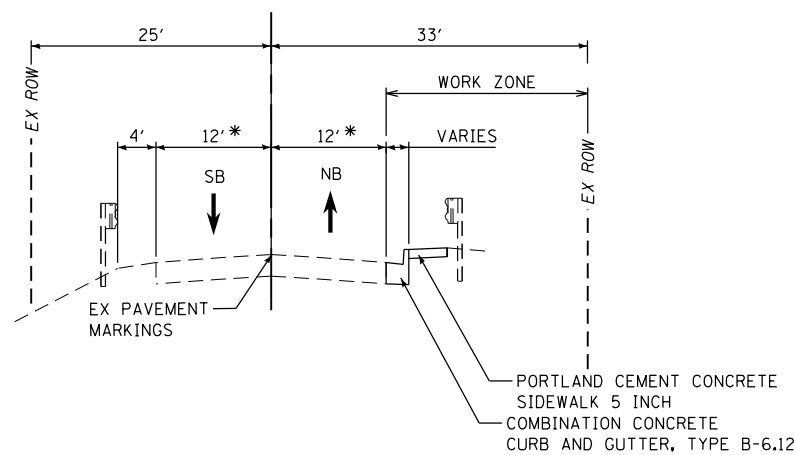
RECONSTRUCTION OF NORTHBOUND LANE FROM IL RTE 68 TO STATION 101+10.



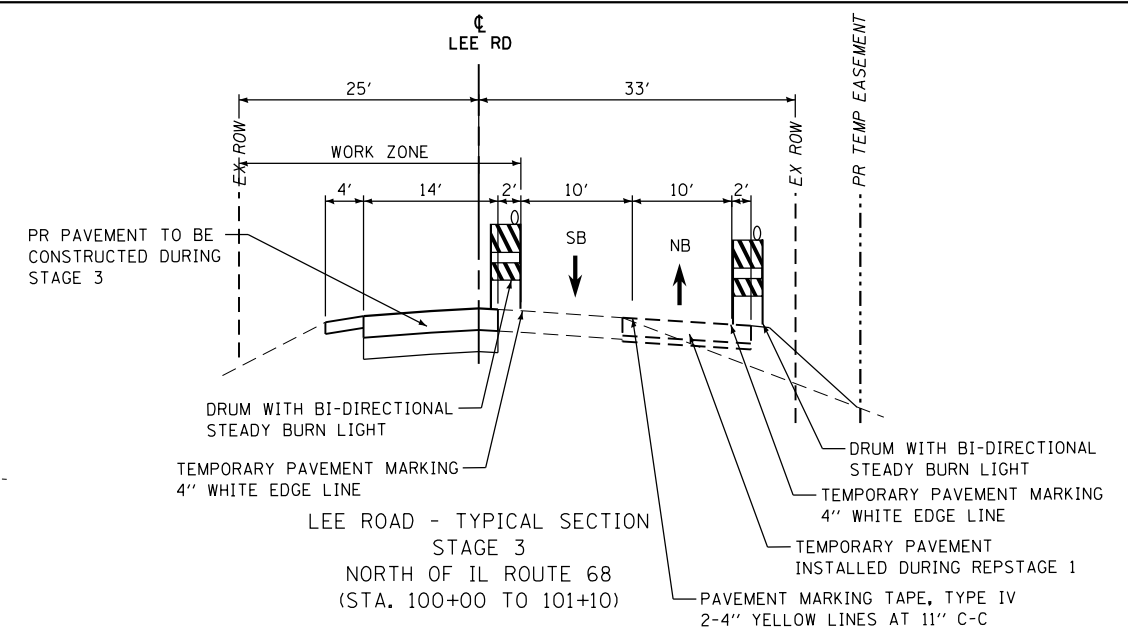
IL ROUTE 68 - TYPICAL SECTION  
STAGE 3  
EAST OF SHERMER ROAD



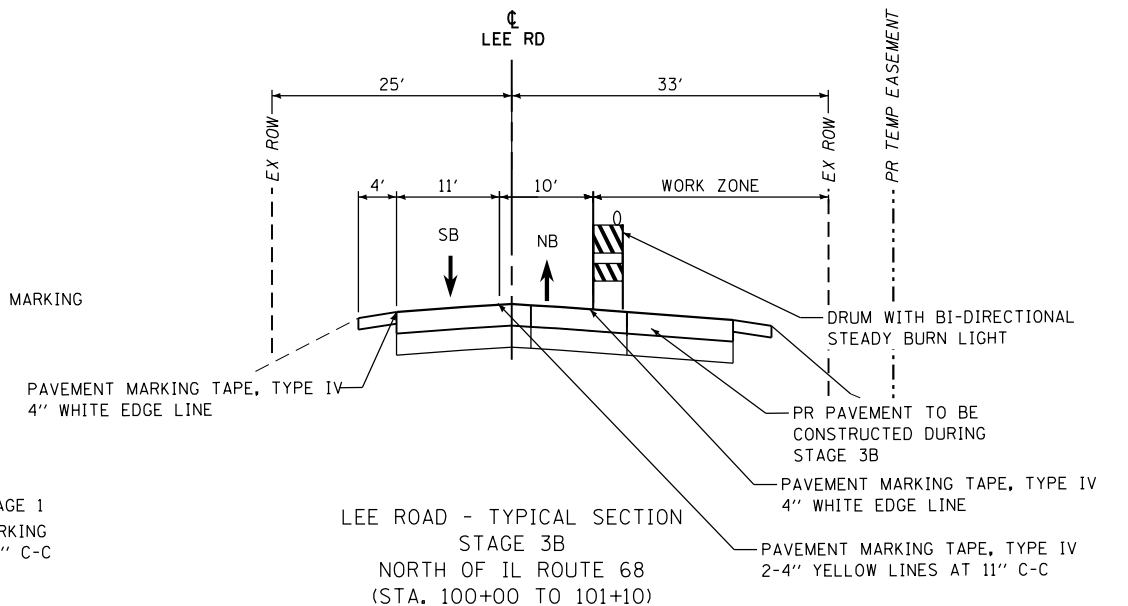
LEE ROAD - TYPICAL SECTION  
STAGE 3A  
NORTH OF IL ROUTE 68  
(STA. 100+00 TO 101+10)  
SHERMER RD



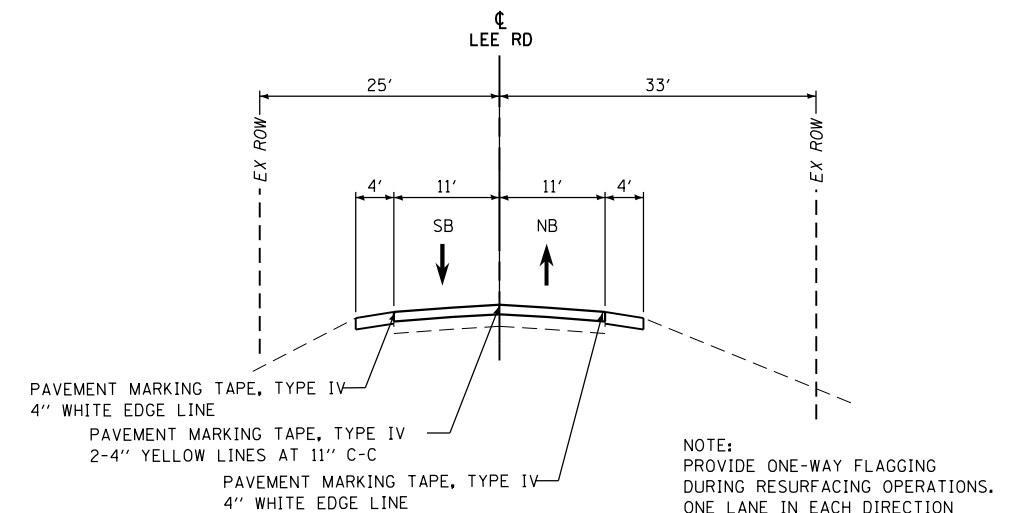
SHERMER ROAD - TYPICAL SECTION  
STAGE 3B  
SOUTH OF IL ROUTE 68



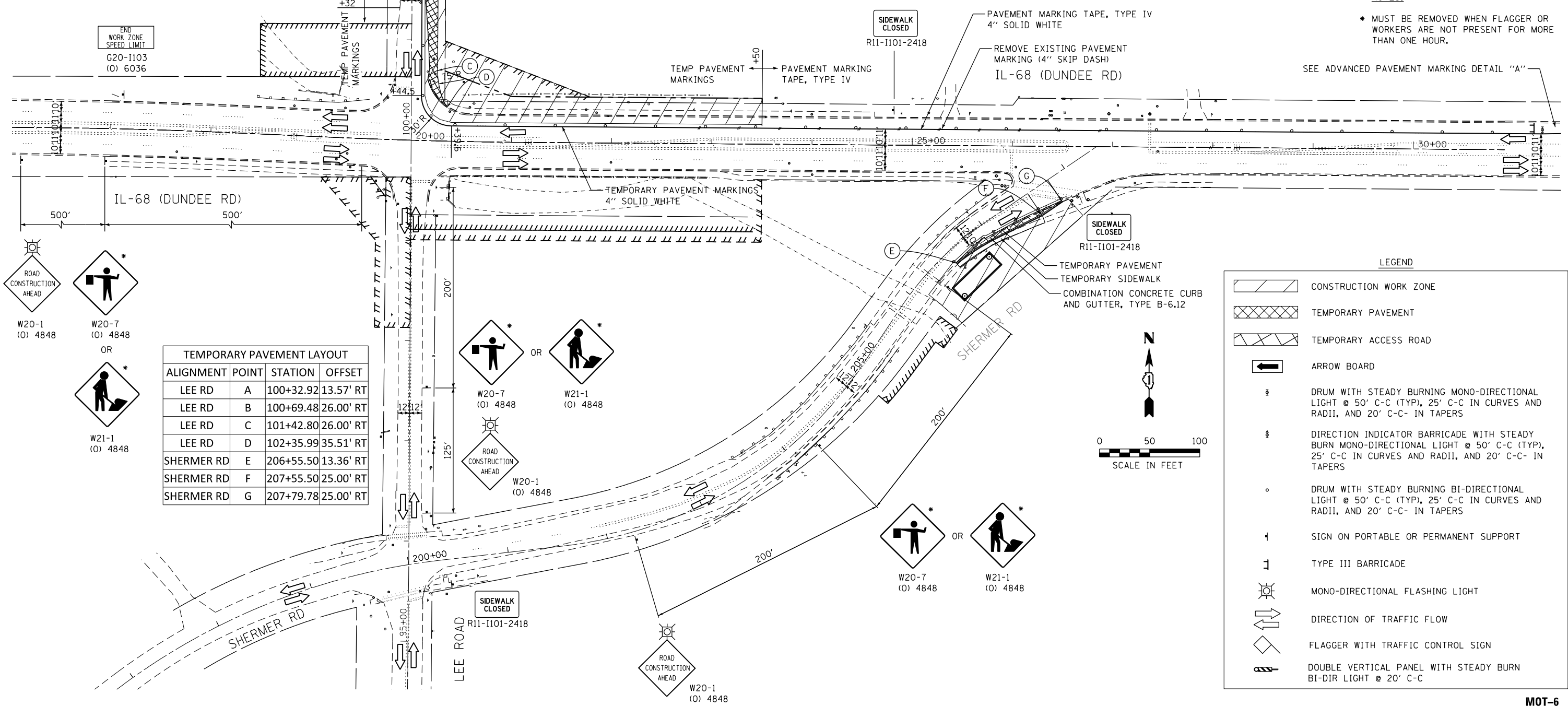
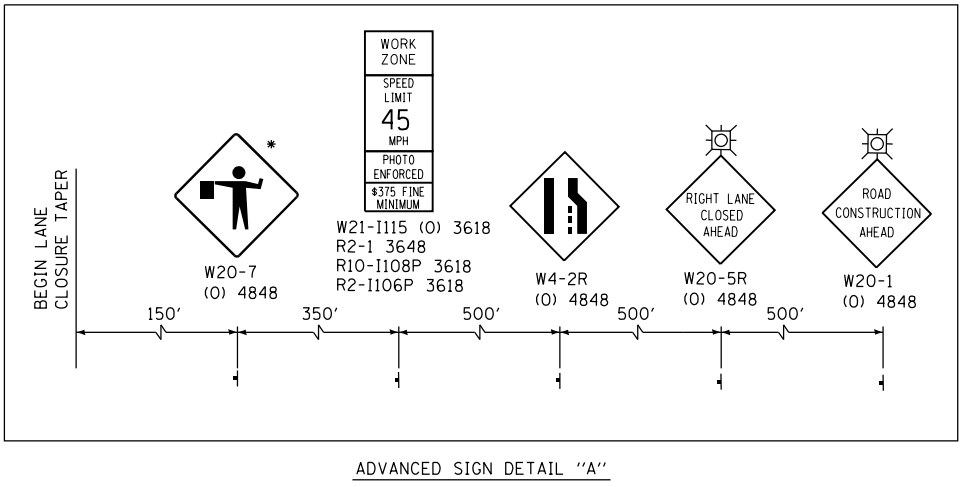
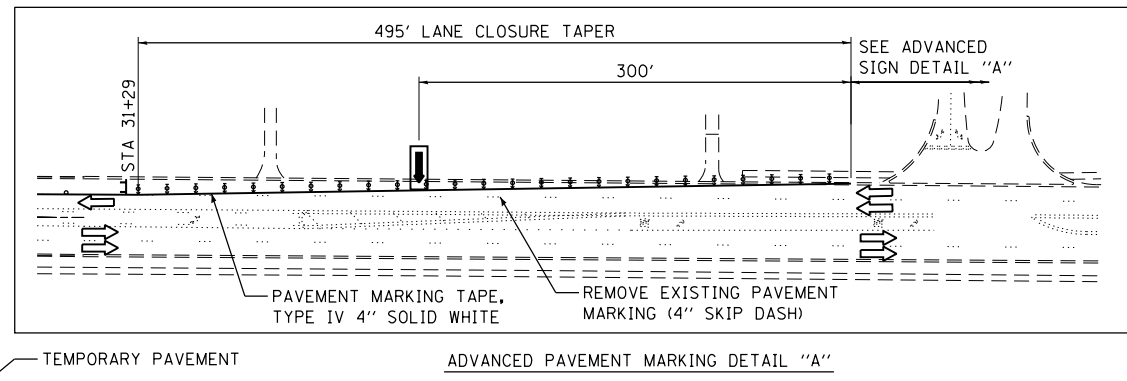
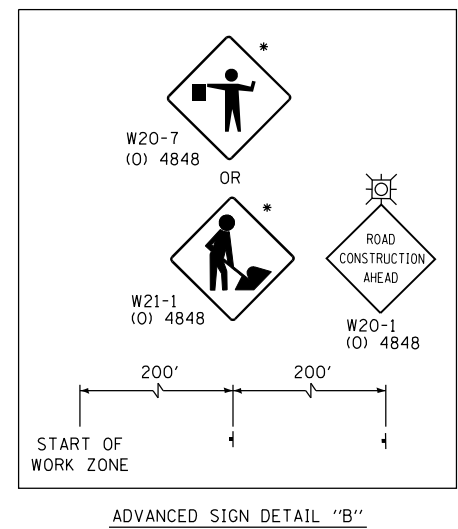
LEE ROAD - TYPICAL SECTION  
STAGE 3  
NORTH OF IL ROUTE 68  
(STA. 100+00 TO 101+10)



LEE ROAD - TYPICAL SECTION  
STAGE 3B  
NORTH OF IL ROUTE 68  
(STA. 100+00 TO 101+10)



LEE ROAD - TYPICAL SECTION  
STAGE 3B  
NORTH OF IL ROUTE 68 (RESURFACING)  
(STA. 101+10 TO 103+00)



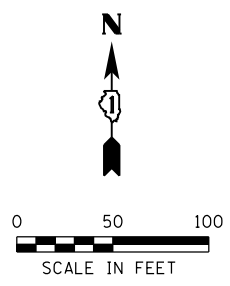
TEMPORARY PAVEMENT LAYOUT

ALIGNMENT	POINT	STATION	OFFSET
LEE RD	A	100+32.92	13.57' RT
LEE RD	B	100+69.48	26.00' RT
LEE RD	C	101+42.80	26.00' RT
LEE RD	D	102+35.99	35.51' RT
SHERMER RD	E	206+55.50	13.36' RT
SHERMER RD	F	207+55.50	25.00' RT
SHERMER RD	G	207+79.78	25.00' RT

NOTES:  
 \* MUST BE REMOVED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

LEGEND

	CONSTRUCTION WORK ZONE
	TEMPORARY PAVEMENT
	TEMPORARY ACCESS ROAD
	ARROW BOARD
	DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE III BARRICADE
	MONO-DIRECTIONAL FLASHING LIGHT
	DIRECTION OF TRAFFIC FLOW
	FLAGGER WITH TRAFFIC CONTROL SIGN
	DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIR LIGHT @ 20' C-C



FILE NAME =	USER NAME = _USERNAME_	DESIGNED -	REVISED -
pw\p\pwl\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\DesignCAD\Sheet Files\0118110-MOT\stagePSI-1.dgn		REVISED -	REVISED -
*MODELNAME*	PLOT DATE = 8/22/2017	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MOT PRE-STAGE 1  
 IL ROUTE 68 OVER MF NB CHICAGO RIVER

SCALE: 1" = 50'

SHEET	OF SHEETS	STA.	TO STA.

MOT-6

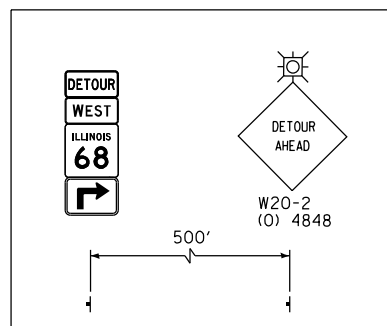
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	38

CONTRACT NO. 60J13

ILLINOIS FED. AID PROJECT

**NOTES:**

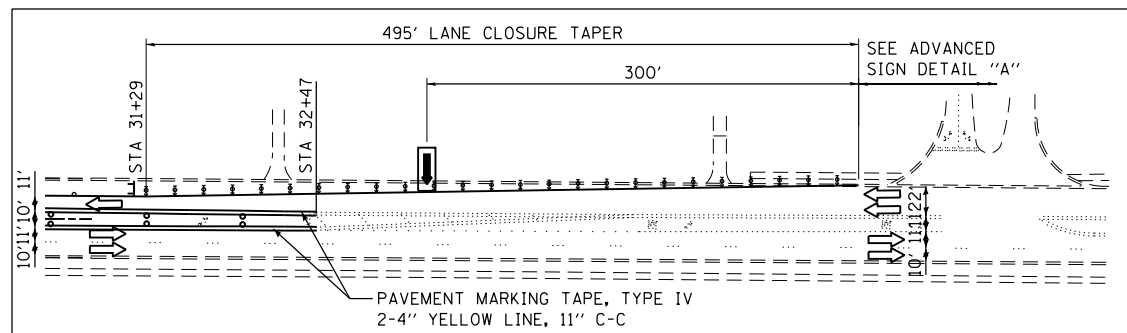
\* MUST BE REMOVED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.



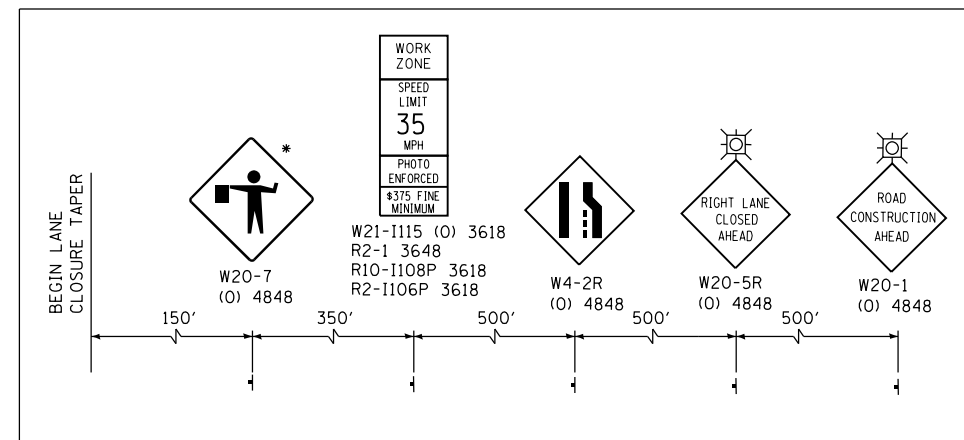
ADVANCED SIGN DETAIL "C"

CLOSE EASTBOUND IL 68 JUST EAST OF BITTERSWEET DR.

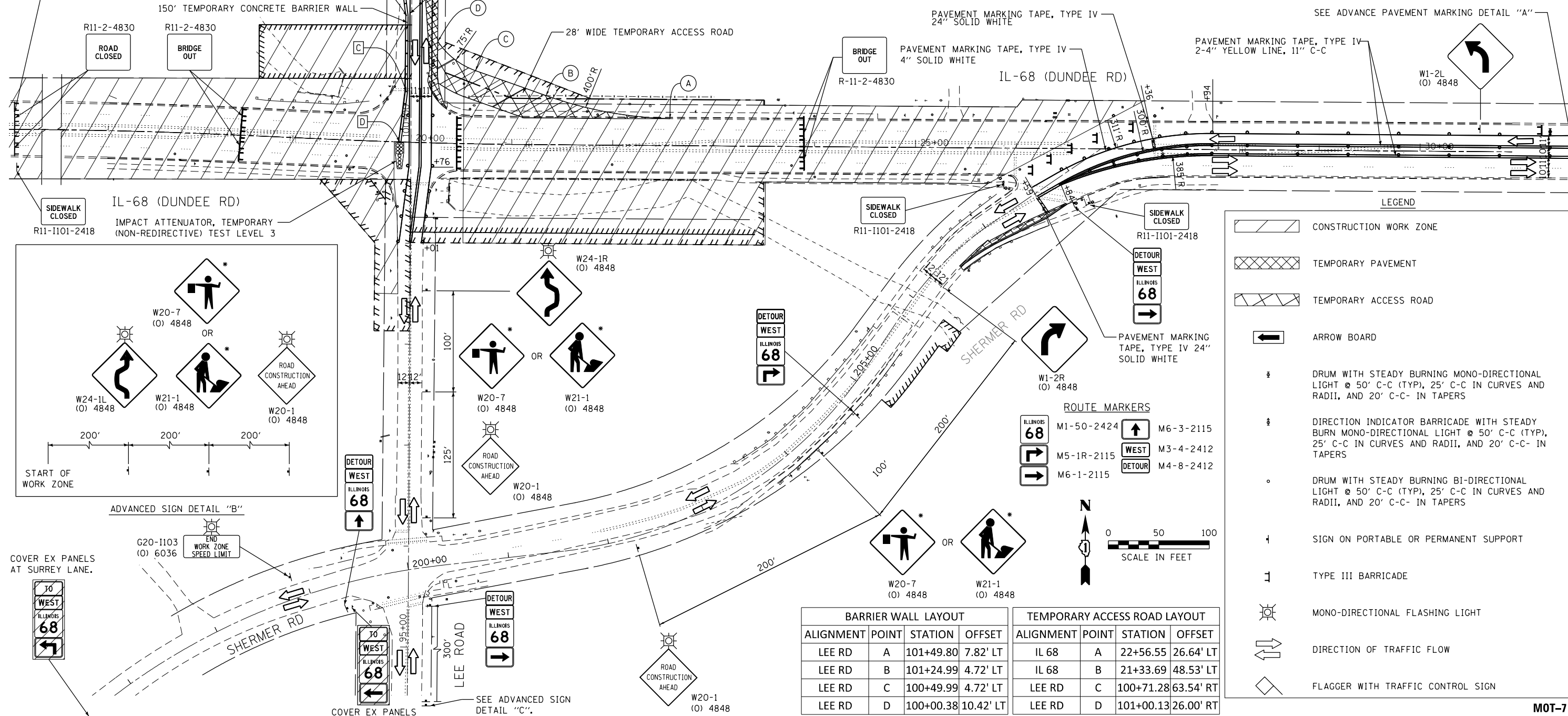
SEE ADVANCED SIGN DETAIL "B"



ADVANCED PAVEMENT MARKING DETAIL "A"

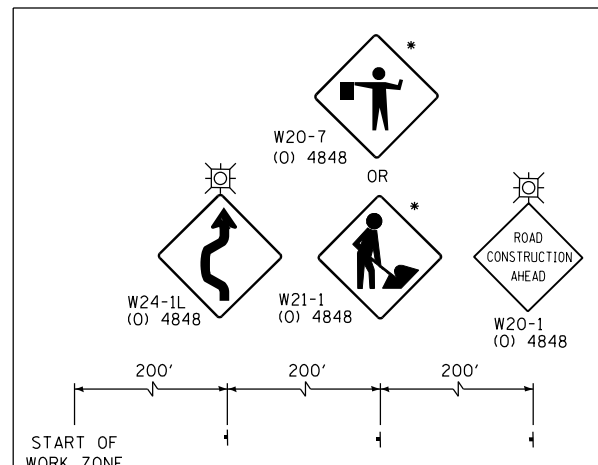


ADVANCED SIGN DETAIL "A"



**LEGEND**

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY ACCESS ROAD
- ARROW BOARD
- DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE
- MONO-DIRECTIONAL FLASHING LIGHT
- DIRECTION OF TRAFFIC FLOW
- FLAGGER WITH TRAFFIC CONTROL SIGN



ADVANCED SIGN DETAIL "B"

COVER EX PANELS AT SURREY LANE.

G20-1103 (O) 6036 END WORK ZONE SPEED LIMIT

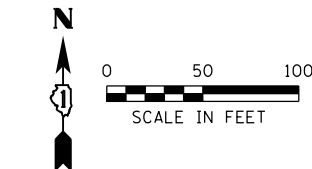
COVER EX PANELS

SEE ADVANCED SIGN DETAIL "C"

BARRIER WALL LAYOUT				TEMPORARY ACCESS ROAD LAYOUT			
ALIGNMENT	POINT	STATION	OFFSET	ALIGNMENT	POINT	STATION	OFFSET
LEE RD	A	101+49.80	7.82' LT	IL 68	A	22+56.55	26.64' LT
LEE RD	B	101+24.99	4.72' LT	IL 68	B	21+33.69	48.53' LT
LEE RD	C	100+49.99	4.72' LT	LEE RD	C	100+71.28	63.54' RT
LEE RD	D	100+00.38	10.42' LT	LEE RD	D	101+00.13	26.00' RT

**ROUTE MARKERS**

ILLINOIS 68	M1-50-2424	M6-3-2115
WEST	M5-1R-2115	M3-4-2412
DETOUR	M6-1-2115	M4-8-2412



FILE NAME =	USER NAME =	DESIGNED -	REVISED -
pw\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-MOTstage1.dgn			
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
*SCALE*			
*MODELNAME*	DATE -	REVISED -	REVISED -
	8/22/2017		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

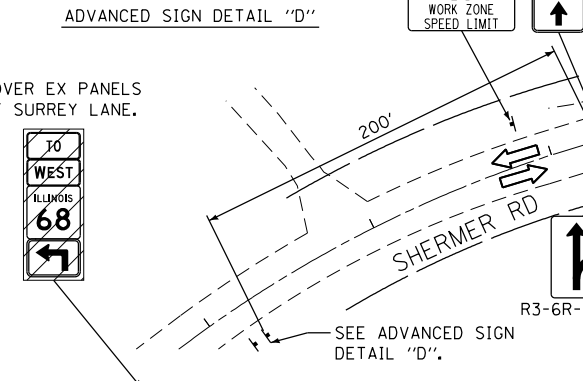
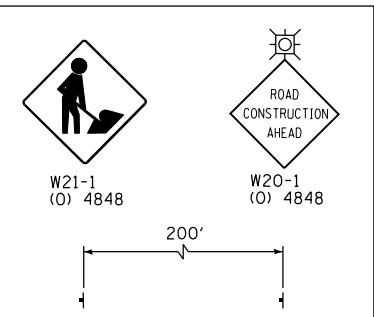
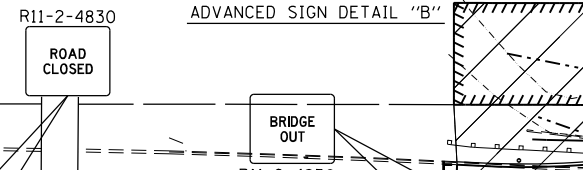
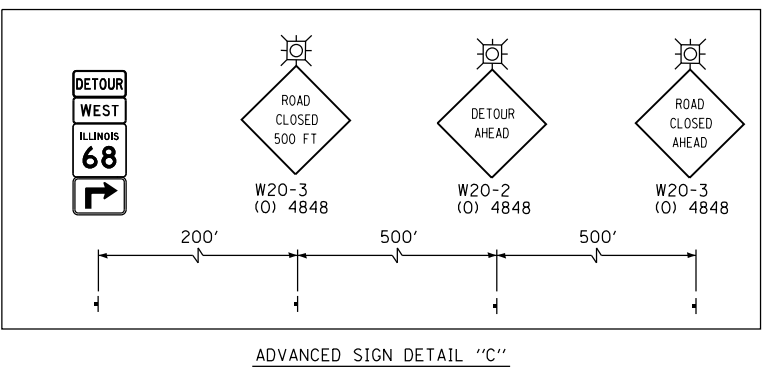
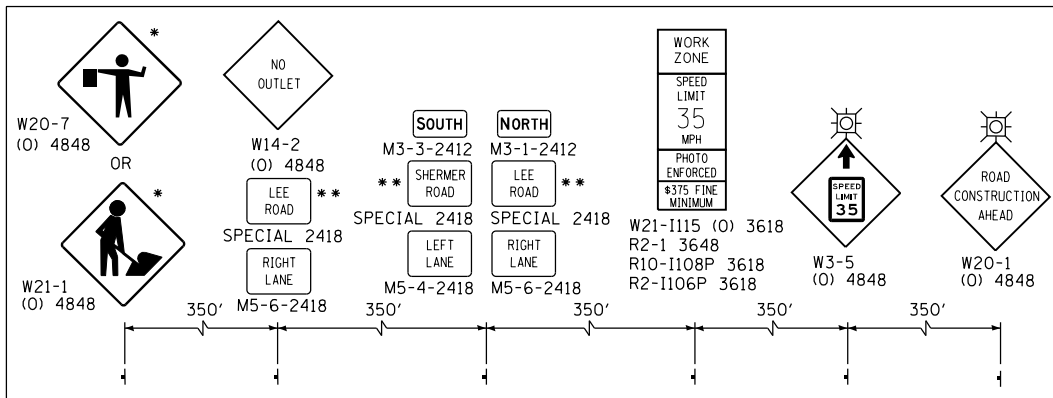
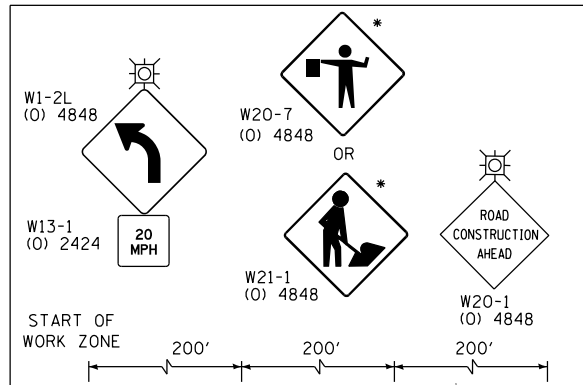
**MOT STAGE 1  
IL ROUTE 68 OVER MF NB CHICAGO RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	39
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

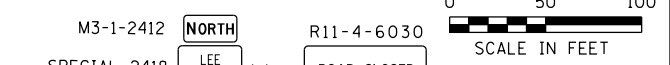
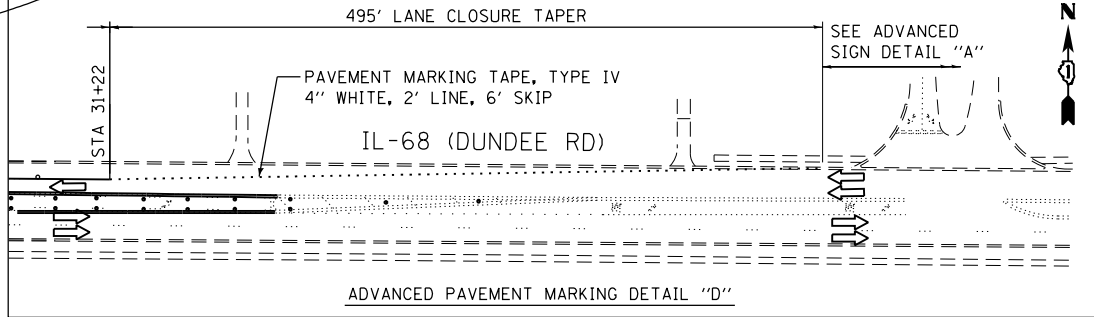
**MOT-7**

**NOTES:**  
 SEE ADVANCE SIGN DETAIL "B"  
 SEE DETOUR PLAN FOR IL ROUTE 68, SHEET DET-1  
 \* MUST BE REMOVED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.  
 \*\* 5 INCH BLOCK LETTERS ON ORANGE BACKGROUND.



BARRIER WALL LAYOUT			
ALIGNMENT	POINT	STATION	OFFSET
IL RTE 68	A	20+08.69	75.81' LT
IL RTE 68	B	20+40.88	55.25' LT
IL RTE 68	C	21+37.72	22.74' LT
IL RTE 68	D	22+11.97	6.42' LT

IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3



- LEGEND**
- CONSTRUCTION WORK ZONE
  - TEMPORARY PAVEMENT
  - TEMPORARY ACCESS ROAD
  - ARROW BOARD
  - DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
  - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
  - SIGN ON PORTABLE OR PERMANENT SUPPORT
  - TYPE III BARRICADE
  - MONO-DIRECTIONAL FLASHING LIGHT
  - DIRECTION OF TRAFFIC FLOW
  - FLAGGER WITH TRAFFIC CONTROL SIGN
  - DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIR LIGHT @ 20' C-C

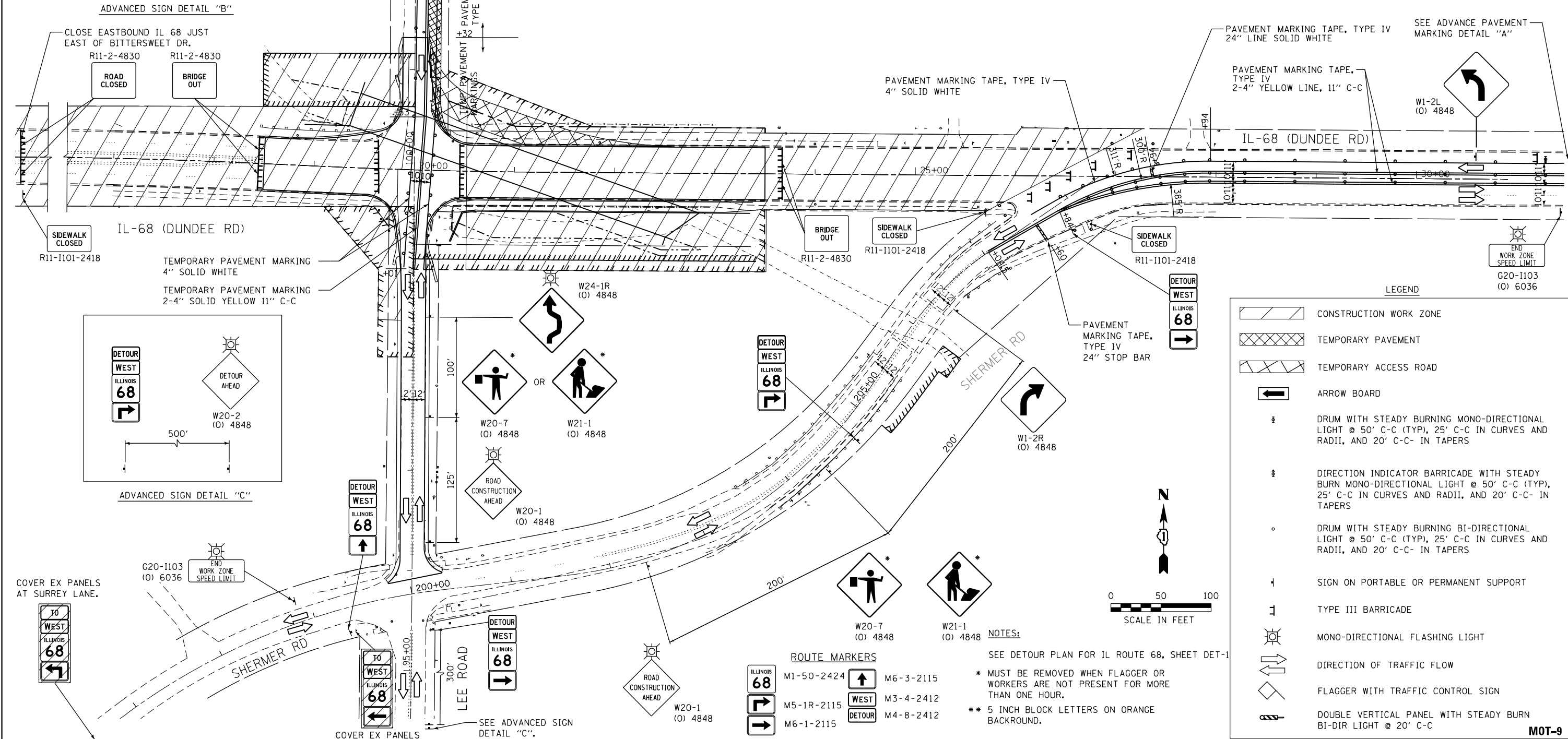
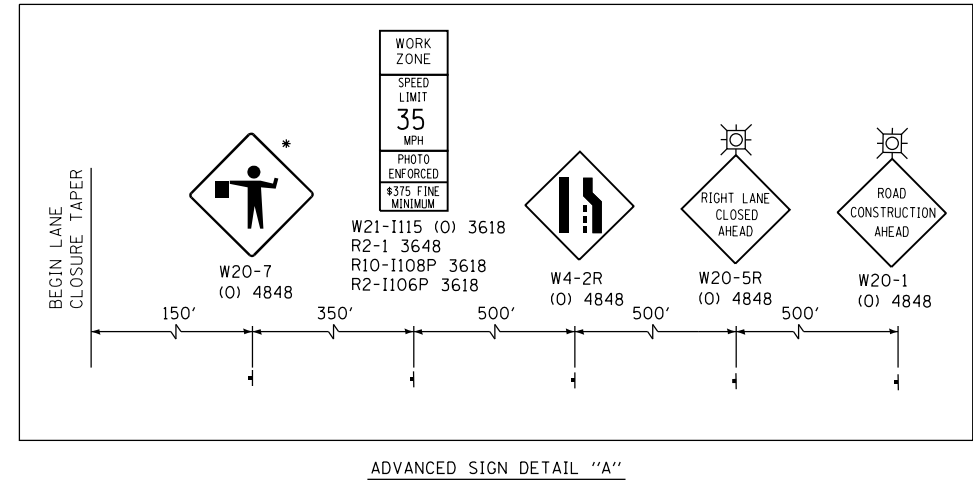
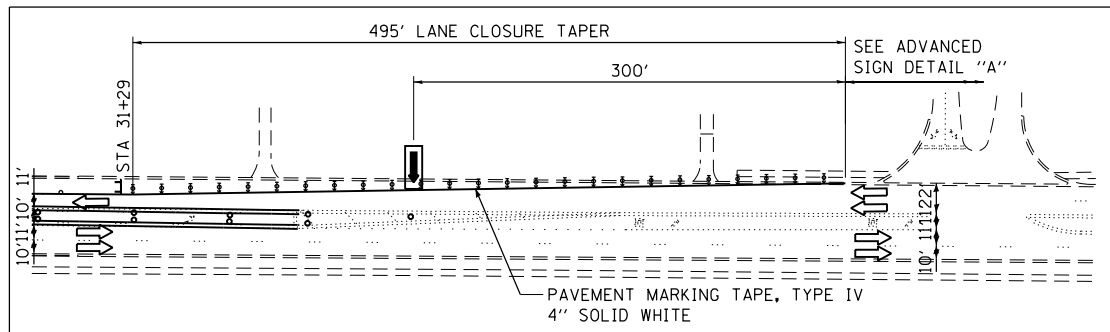
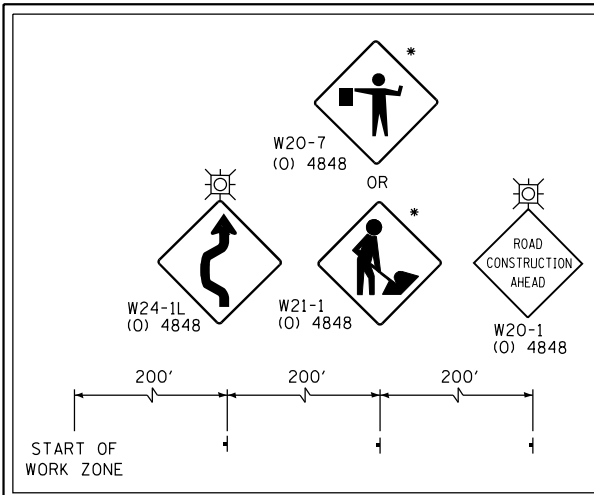
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
pw\pwl\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-MOTstage2-1.dgn			
PLOT SCALE =	CHECKED -	REVISED -	
#MODELNAME#	DATE -	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MOT STAGE 2  
 IL ROUTE 68 OVER MF NB CHICAGO RIVER**  
 SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	40
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

**MOT-8**



LEGEND

	CONSTRUCTION WORK ZONE
	TEMPORARY PAVEMENT
	TEMPORARY ACCESS ROAD
	ARROW BOARD
	DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT @ 50' C-C (TYP), 25' C-C IN CURVES AND RADII, AND 20' C-C- IN TAPERS
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE III BARRICADE
	MONO-DIRECTIONAL FLASHING LIGHT
	DIRECTION OF TRAFFIC FLOW
	FLAGGER WITH TRAFFIC CONTROL SIGN
	DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIR LIGHT @ 20' C-C

MOT-9

FILE NAME =	USER NAME = .USERNAME.	DESIGNED -	REVISED -
pw:\PWLDzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-MOTstage3-1.dgn		REVISED -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -	REVISED -
*MODELNAME*	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MOT STAGE 3  
IL ROUTE 68 OVER MF NB CHICAGO RIVER

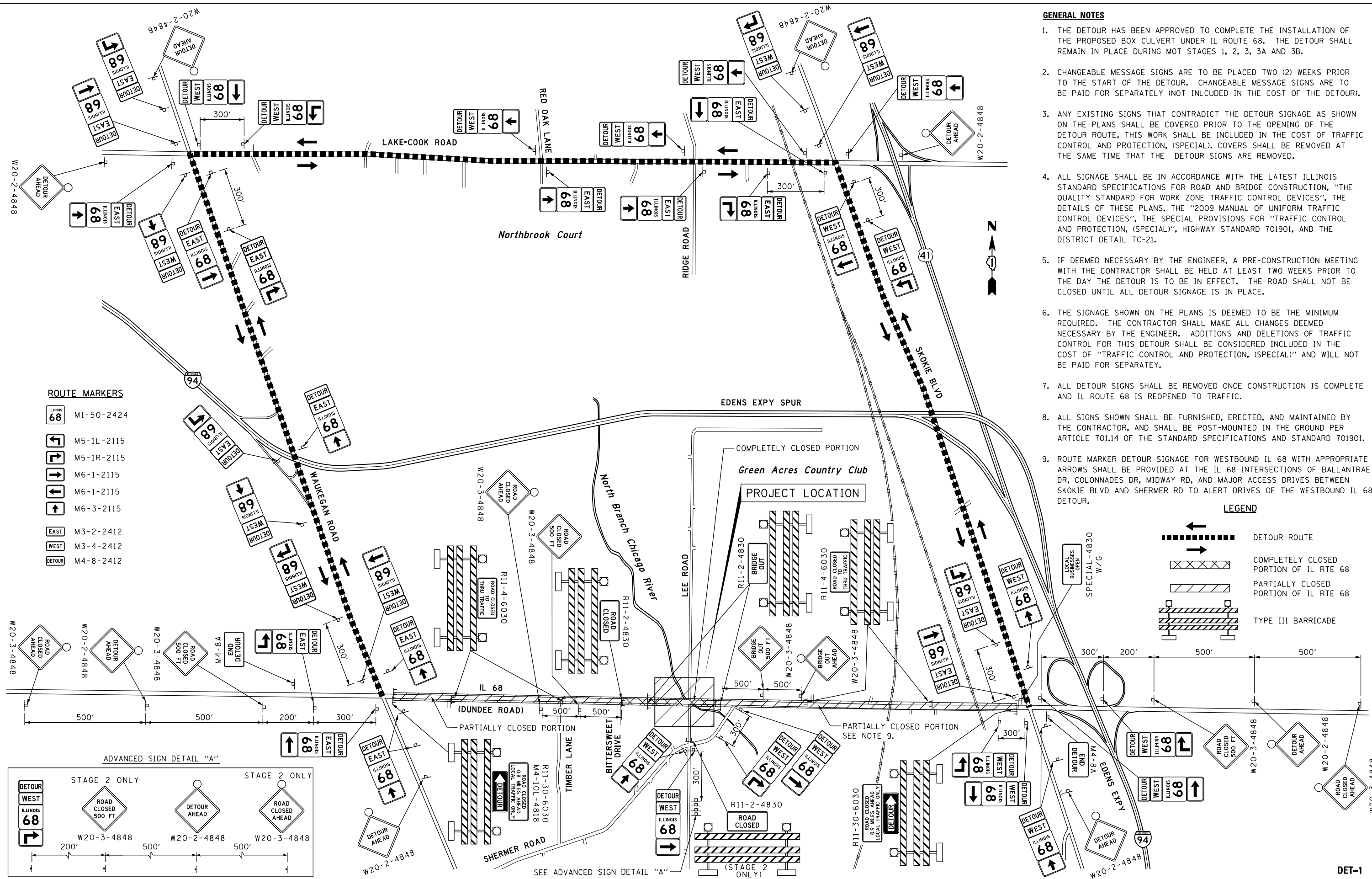
SCALE: 1" = 50'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	41
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



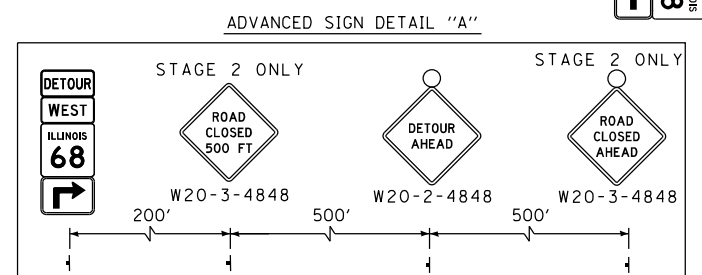
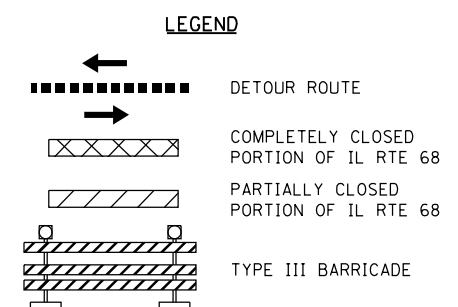




- GENERAL NOTES**
1. THE DETOUR HAS BEEN APPROVED TO COMPLETE THE INSTALLATION OF THE PROPOSED BOX CULVERT UNDER IL ROUTE 68. THE DETOUR SHALL REMAIN IN PLACE DURING MOT STAGES 1, 2, 3, 3A AND 3B.
  2. CHANGEABLE MESSAGE SIGNS ARE TO BE PLACED TWO (2) WEEKS PRIOR TO THE START OF THE DETOUR. CHANGEABLE MESSAGE SIGNS ARE TO BE PAID FOR SEPARATELY (NOT INCLUDED IN THE COST OF THE DETOUR).
  3. ANY EXISTING SIGNS THAT CONTRADICT THE DETOUR SIGNAGE AS SHOWN ON THE PLANS SHALL BE COVERED PRIOR TO THE OPENING OF THE DETOUR ROUTE, THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL). COVERS SHALL BE REMOVED AT THE SAME TIME THAT THE DETOUR SIGNS ARE REMOVED.
  4. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES", THE DETAILS OF THESE PLANS, THE "2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE SPECIAL PROVISIONS FOR "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)", HIGHWAY STANDARD 701901, AND THE DISTRICT DETAIL TC-21.
  5. IF DEEMED NECESSARY BY THE ENGINEER, A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ROAD SHALL NOT BE CLOSED UNTIL ALL DETOUR SIGNAGE IS IN PLACE.
  6. THE SIGNAGE SHOWN ON THE PLANS IS DEEMED TO BE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL MAKE ALL CHANGES DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)" AND WILL NOT BE PAID FOR SEPARATELY.
  7. ALL DETOUR SIGNS SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND IL ROUTE 68 IS REOPENED TO TRAFFIC.
  8. ALL SIGNS SHOWN SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR, AND SHALL BE POST-MOUNTED IN THE GROUND PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS AND STANDARD 701901.
  9. ROUTE MARKER DETOUR SIGNAGE FOR WESTBOUND IL 68 WITH APPROPRIATE ARROWS SHALL BE PROVIDED AT THE IL 68 INTERSECTIONS OF BALLANTRAE DR, COLONNADES DR, MIDWAY RD, AND MAJOR ACCESS DRIVES BETWEEN SKOKIE BLVD AND SHERMER RD TO ALERT DRIVERS OF THE WESTBOUND IL 68 DETOUR.

**ROUTE MARKERS**

	M1-50-2424
	M5-1L-2115
	M5-1R-2115
	M6-1-2115
	M6-1-2115
	M6-3-2115
	M3-2-2412
	M3-4-2412
	M4-8-2412



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

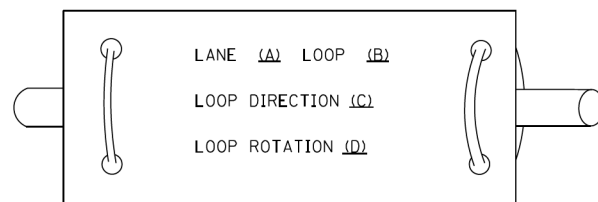
TS SHEET NO. 1



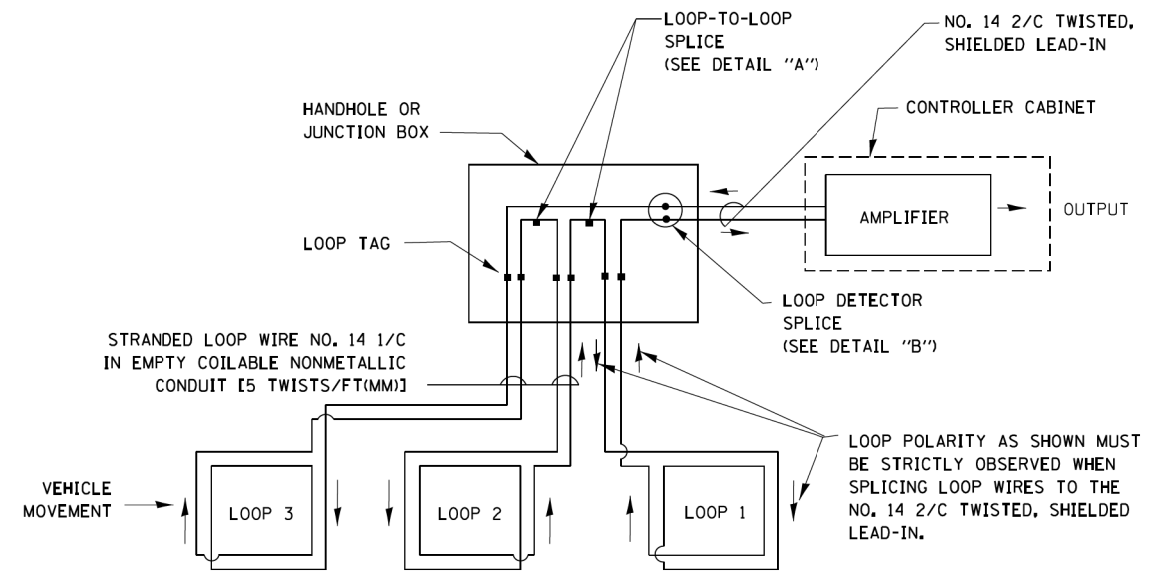
**LOOP DETECTOR NOTES**

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 DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

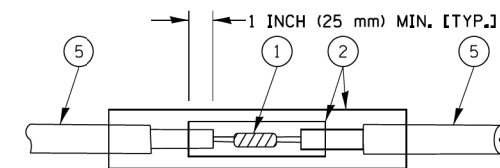


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

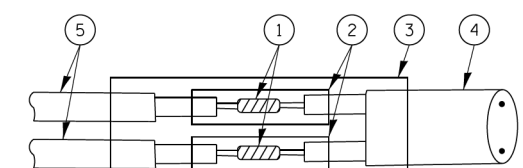


**DETECTOR LOOP WIRING SCHEMATIC**

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

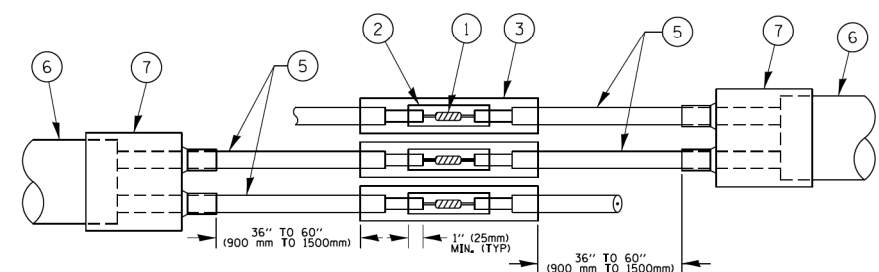


DETAIL "A"  
LOOP-TO-LOOP SPLICE

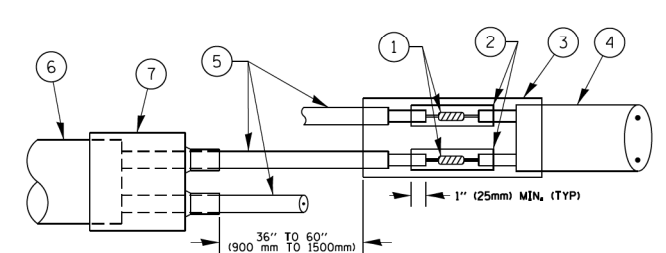


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

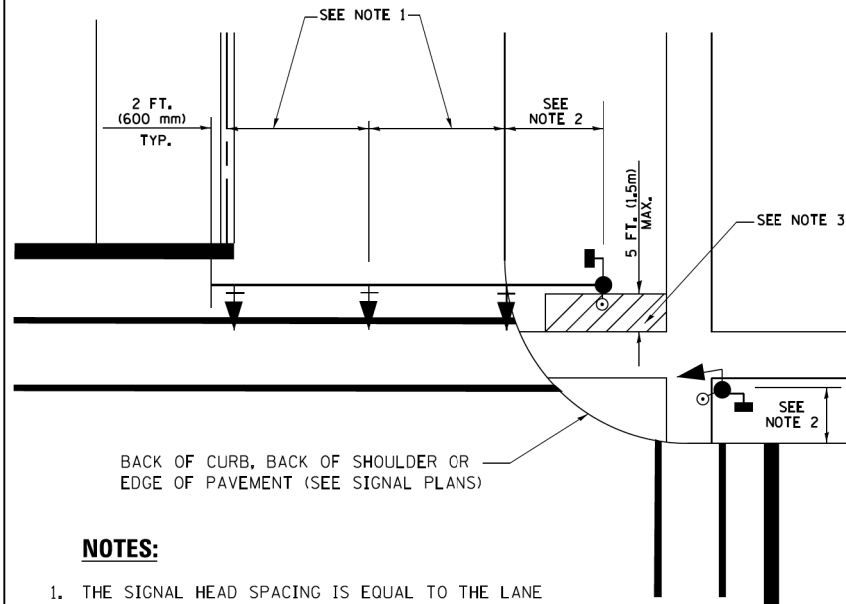
**LOOP DETECTOR SPLICE**

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

TS SHEET NO. 2

FILE NAME =	USER NAME = .USERNAME.	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\PW\dzcorp.com\DLZ\Documents\Projects\2011\1181\2053\DesignCAD\Sheet Files\01181\10-DITS DETAIL2.dgn		CHECKED -	REVISED -			343	30T-1	COOK	140	45
PLOT SCALE = #SCALE#		DATE -	REVISED -			CONTRACT NO. 60J13				
#MODELNAME#	PLOT DATE = 8/22/2017					SCALE: NONE	SHEET 2 OF 7 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

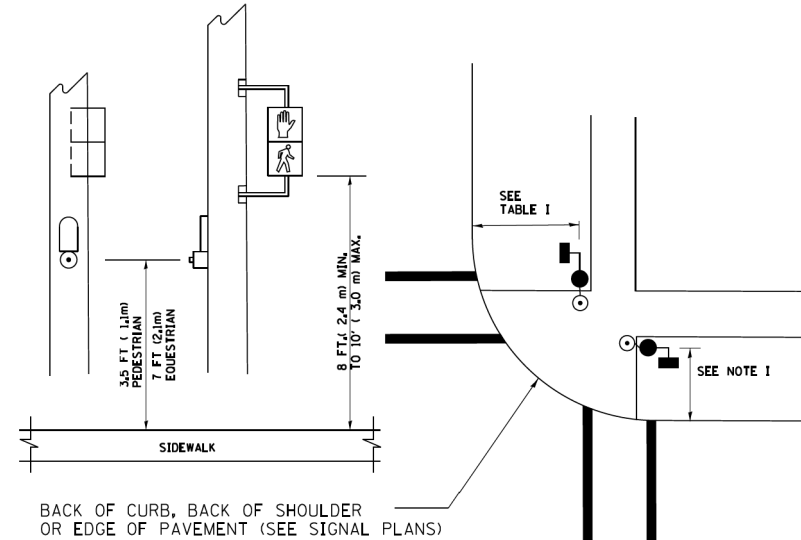
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**  
**MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR**  
**FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN**  
**WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

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

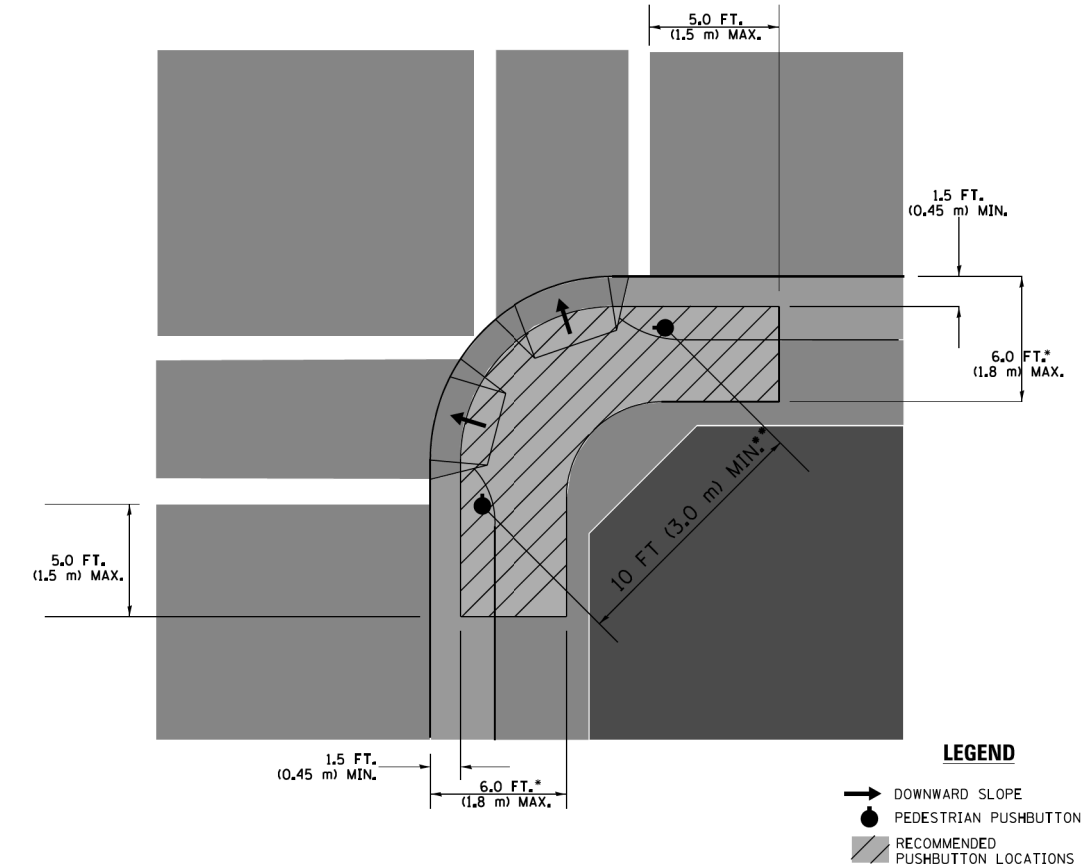
**PEDESTRIAN SIGNAL POST**  
**AND**  
**PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

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

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

**NOTES:**

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

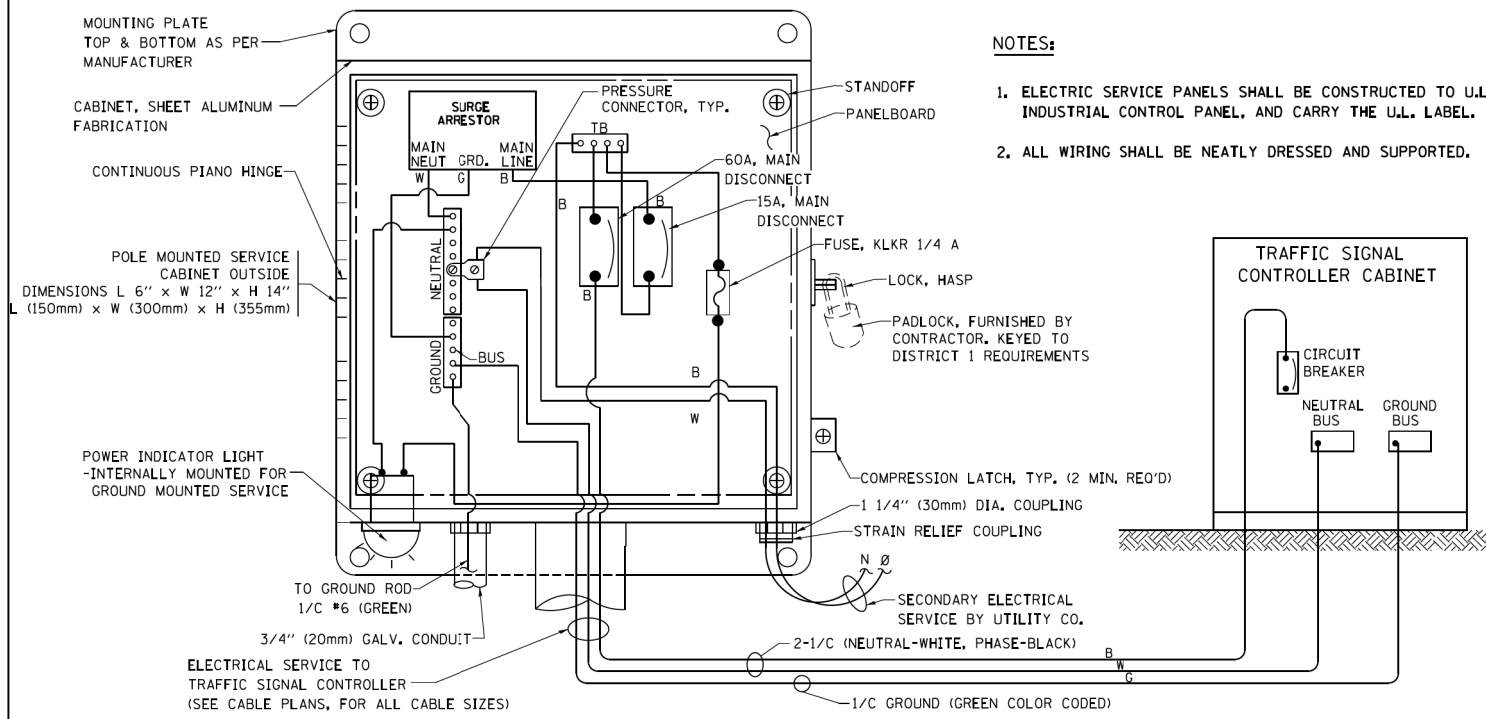
**TRAFFIC SIGNAL EQUIPMENT OFFSET**

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

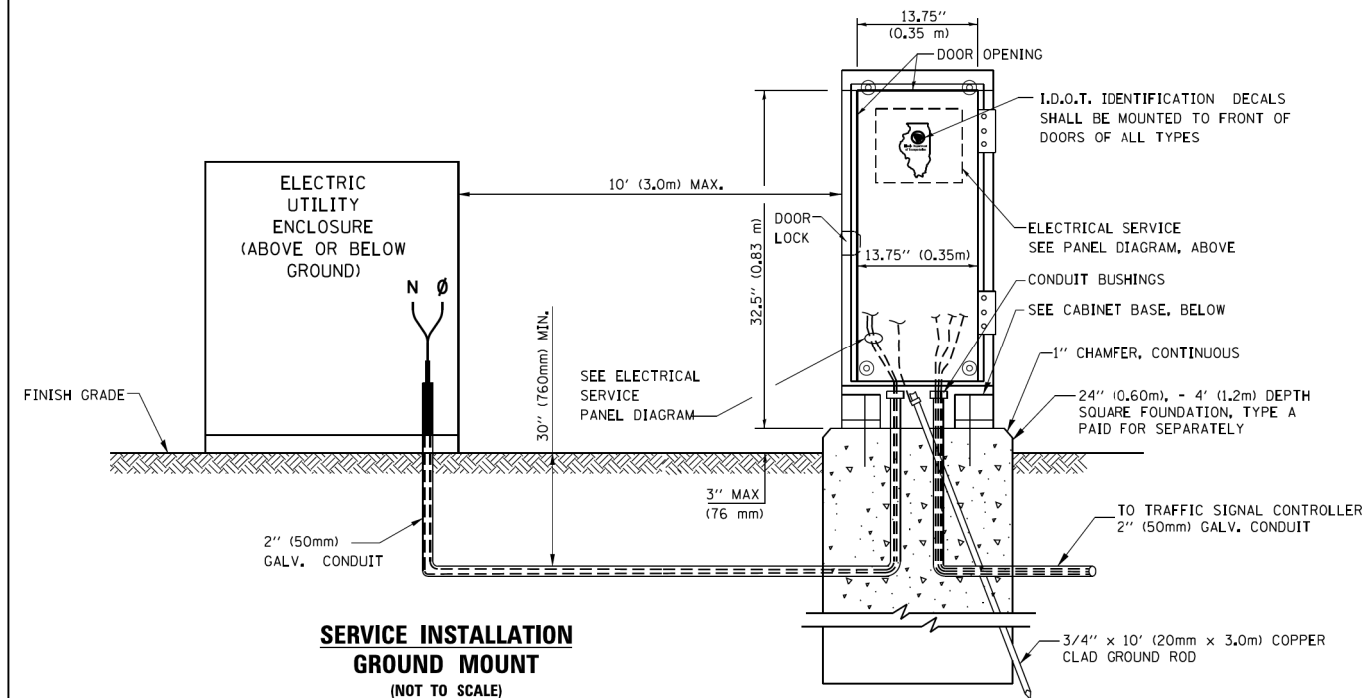
**NOTES:**

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

TS SHEET NO. 3

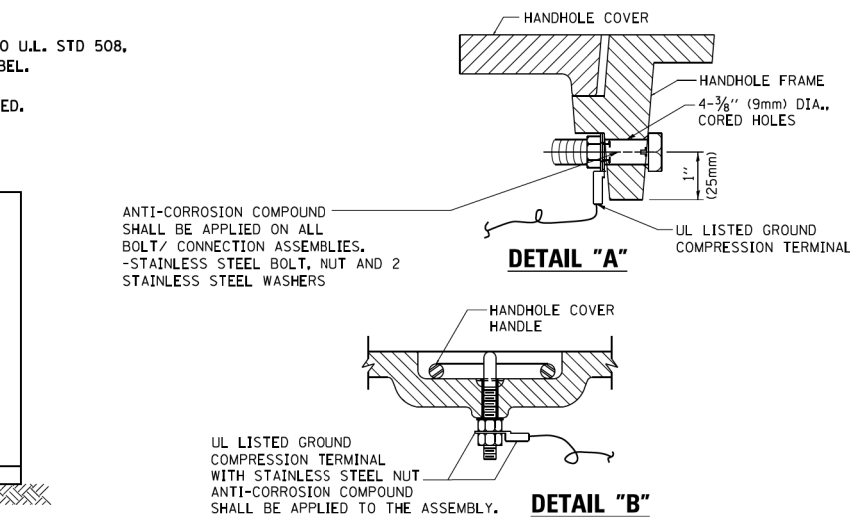
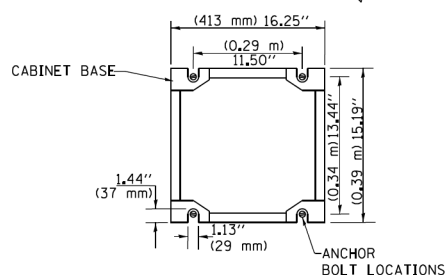


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**



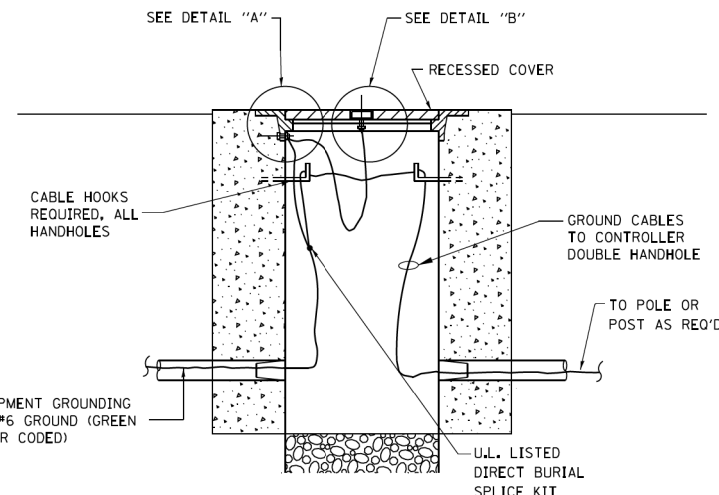
**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**

**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**

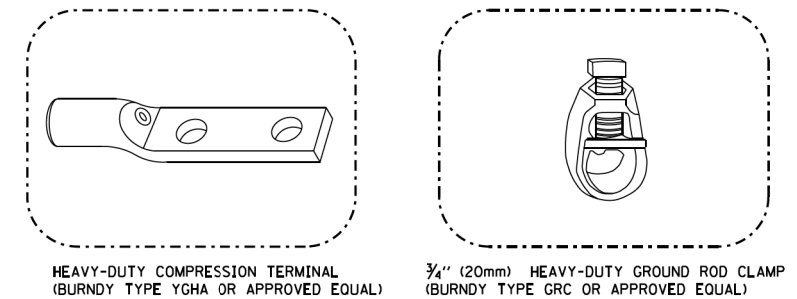


**NOTES: GROUNDING SYSTEM**

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.

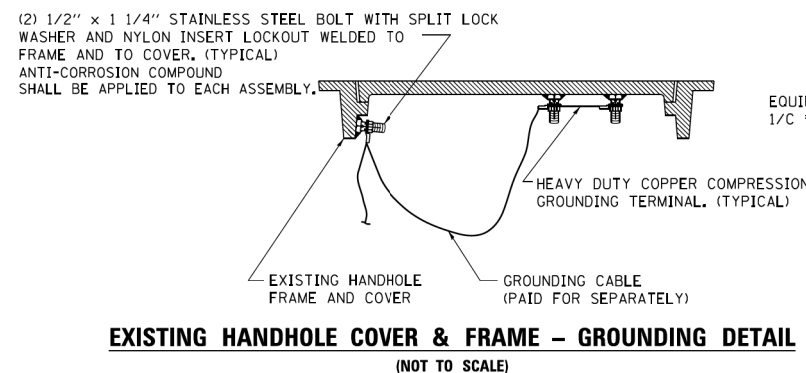


**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**

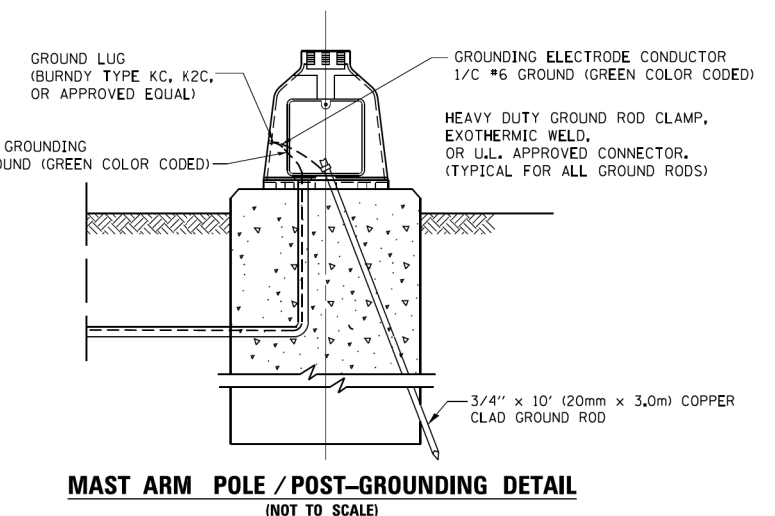


**NOTES:**

- 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.



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



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

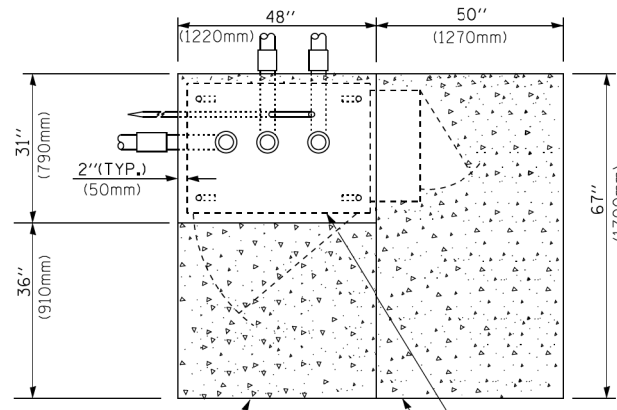
FILE NAME =	USER NAME = .USERNAME.	DESIGNED -	REVISED -
pw:\PW\dzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\01181\10-DITS DETAIL 4.dgn		CHECKED -	REVISED -
*MODELNAME*	PLOT DATE = 8/22/2017	DATE -	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

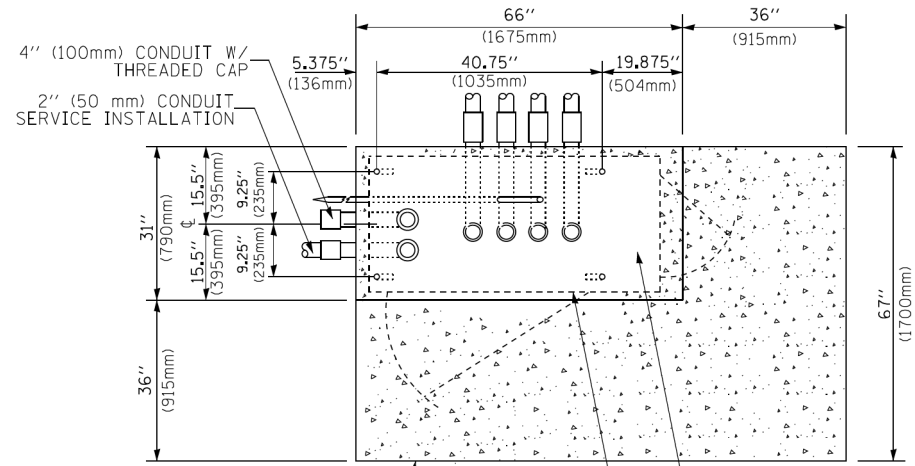
**DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	47
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

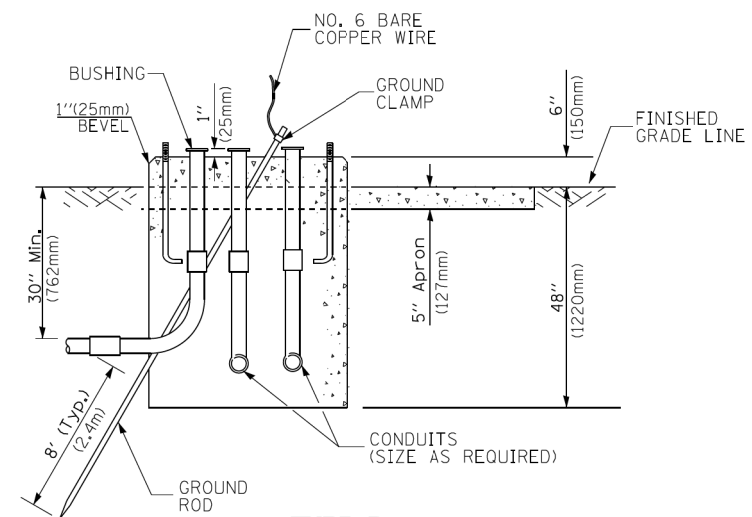


**TOP VIEW**

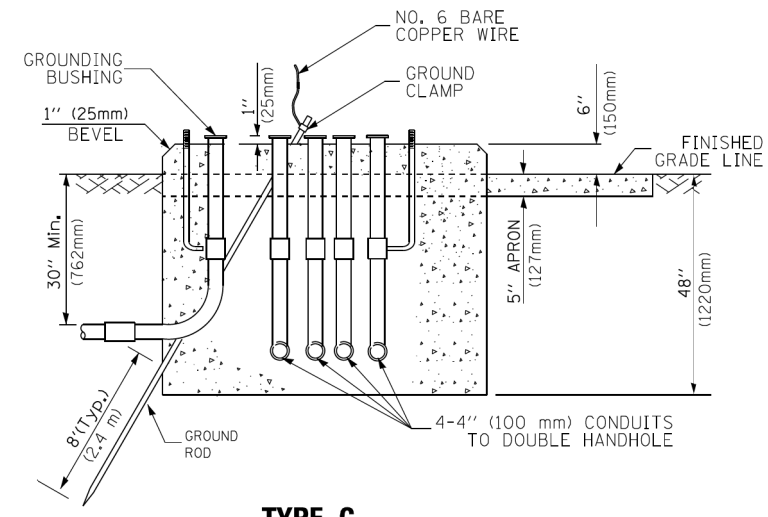


**TOP VIEW**

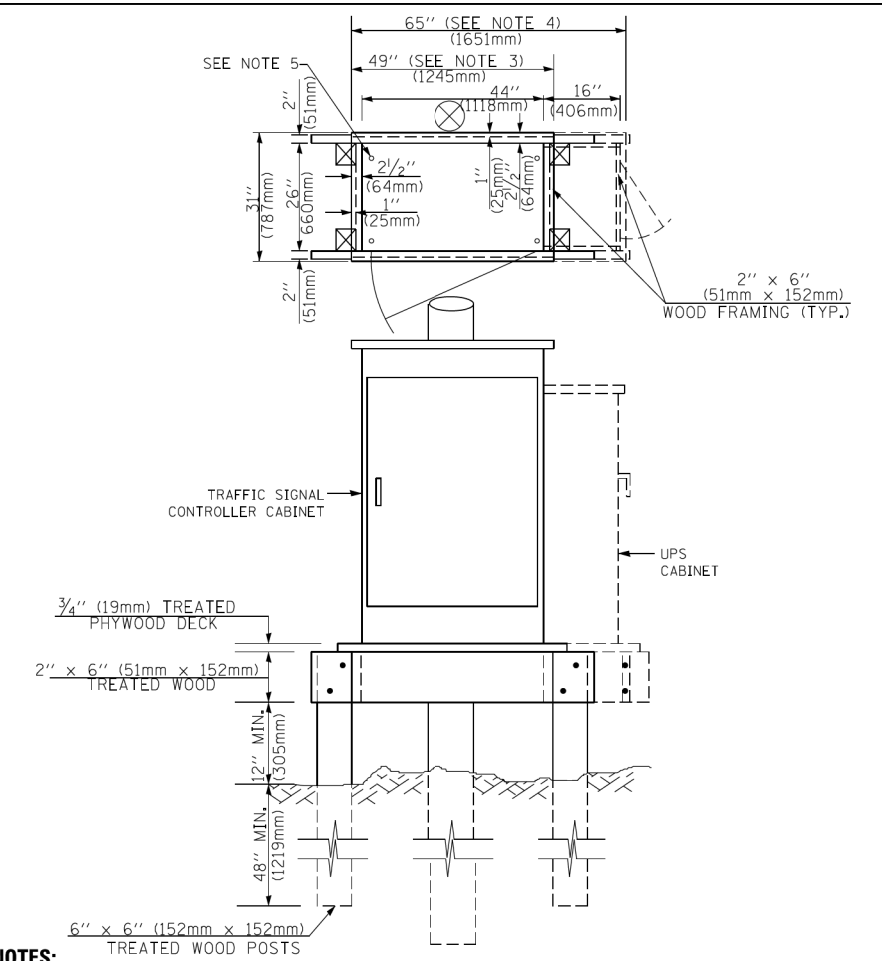
**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



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



**NOTES:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

**DEPTH OF FOUNDATION**

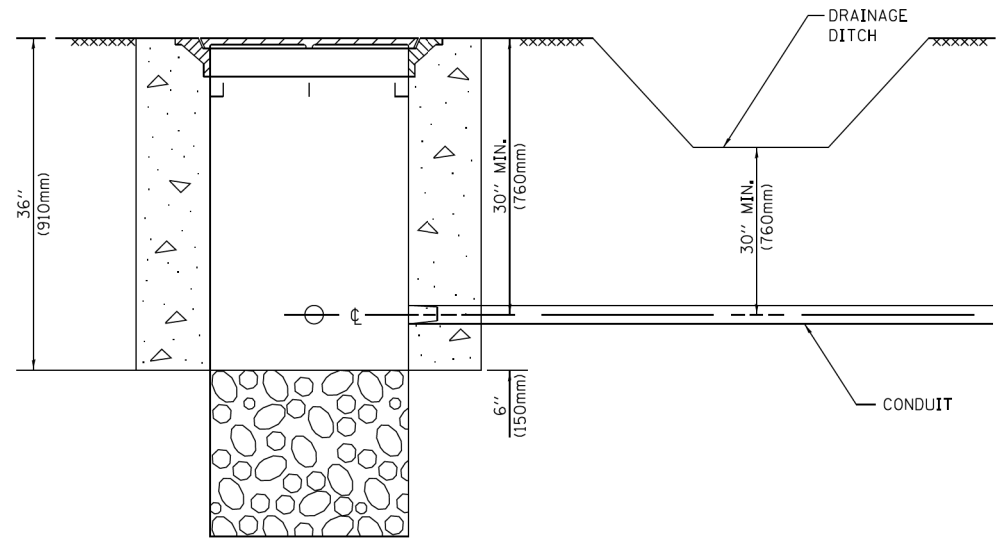
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

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

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

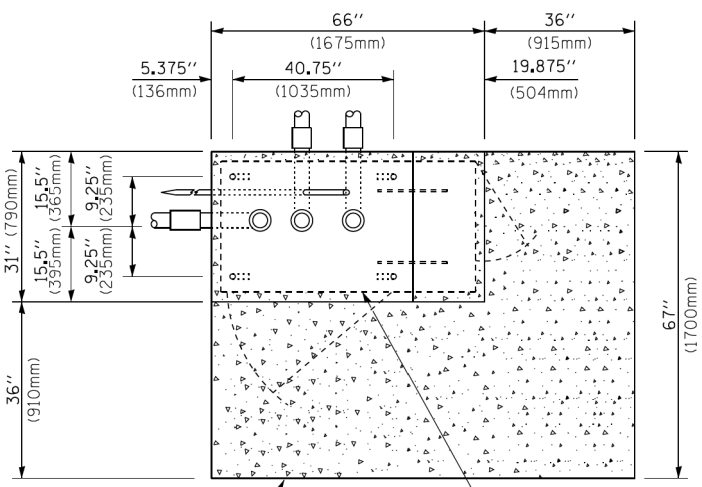
TS SHEET NO. 5



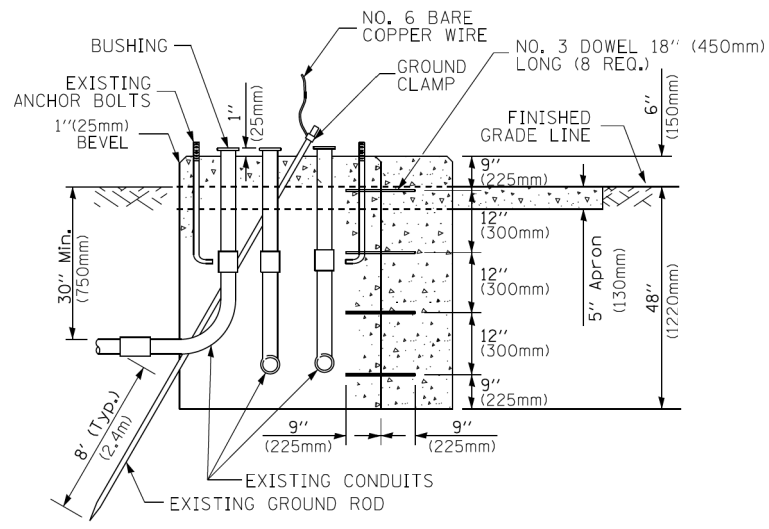
**NOTES:**

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

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



**TOP VIEW**  
(NOT TO SCALE)

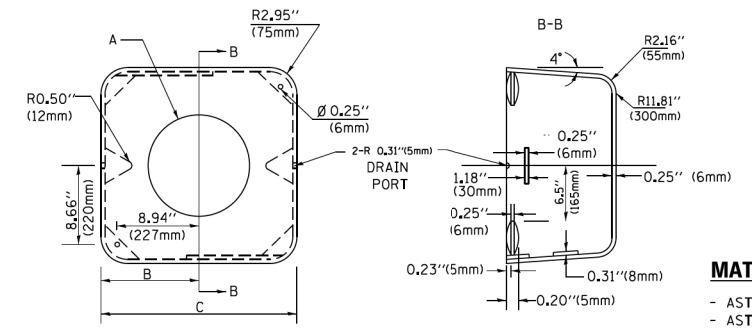


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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

**NOTES:**

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



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

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

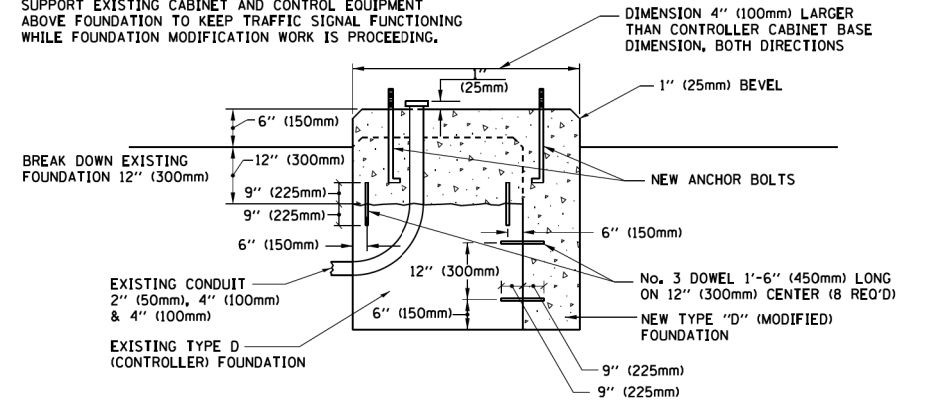
**SHROUD**

**NOTES:**

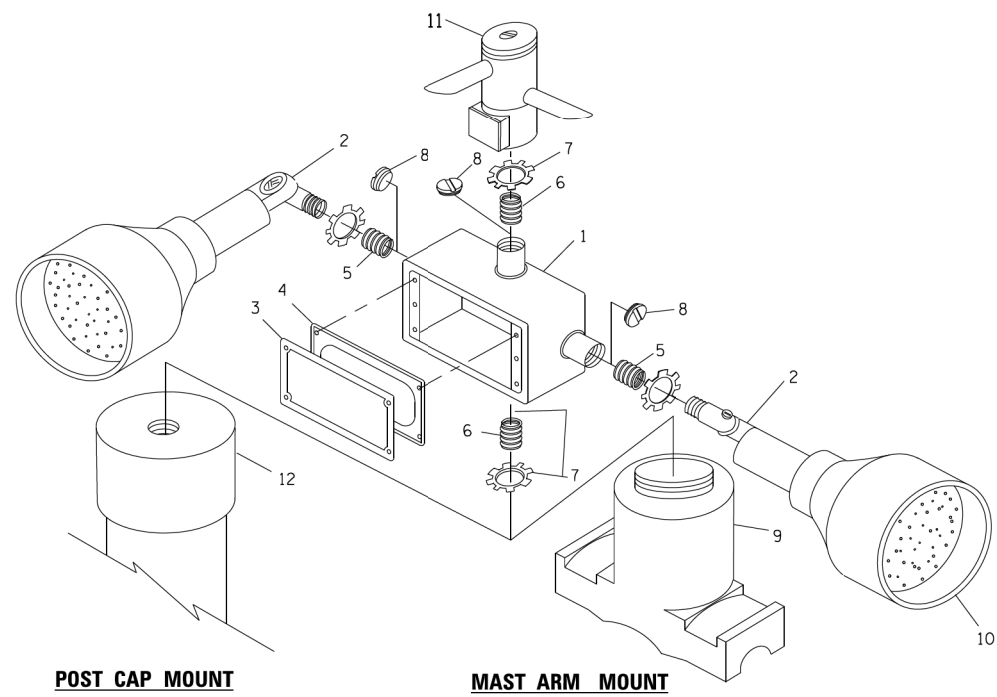
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

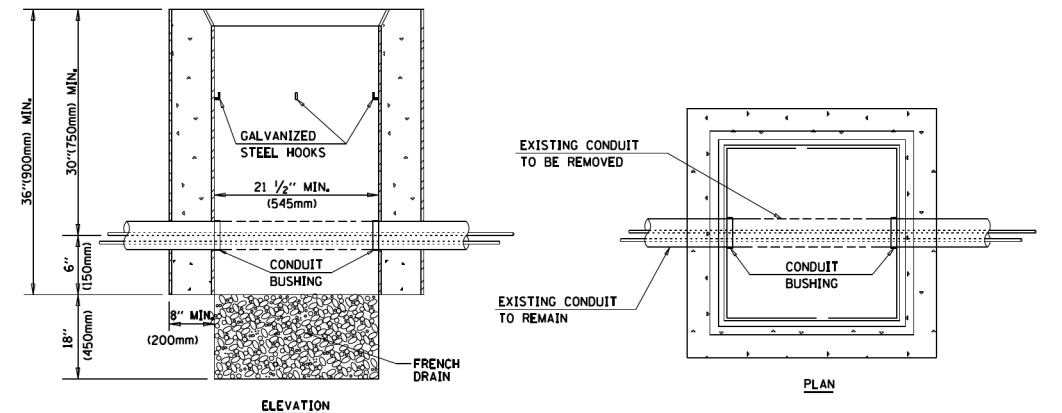
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**NOTES:**

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

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

TS SHEET NO. 6

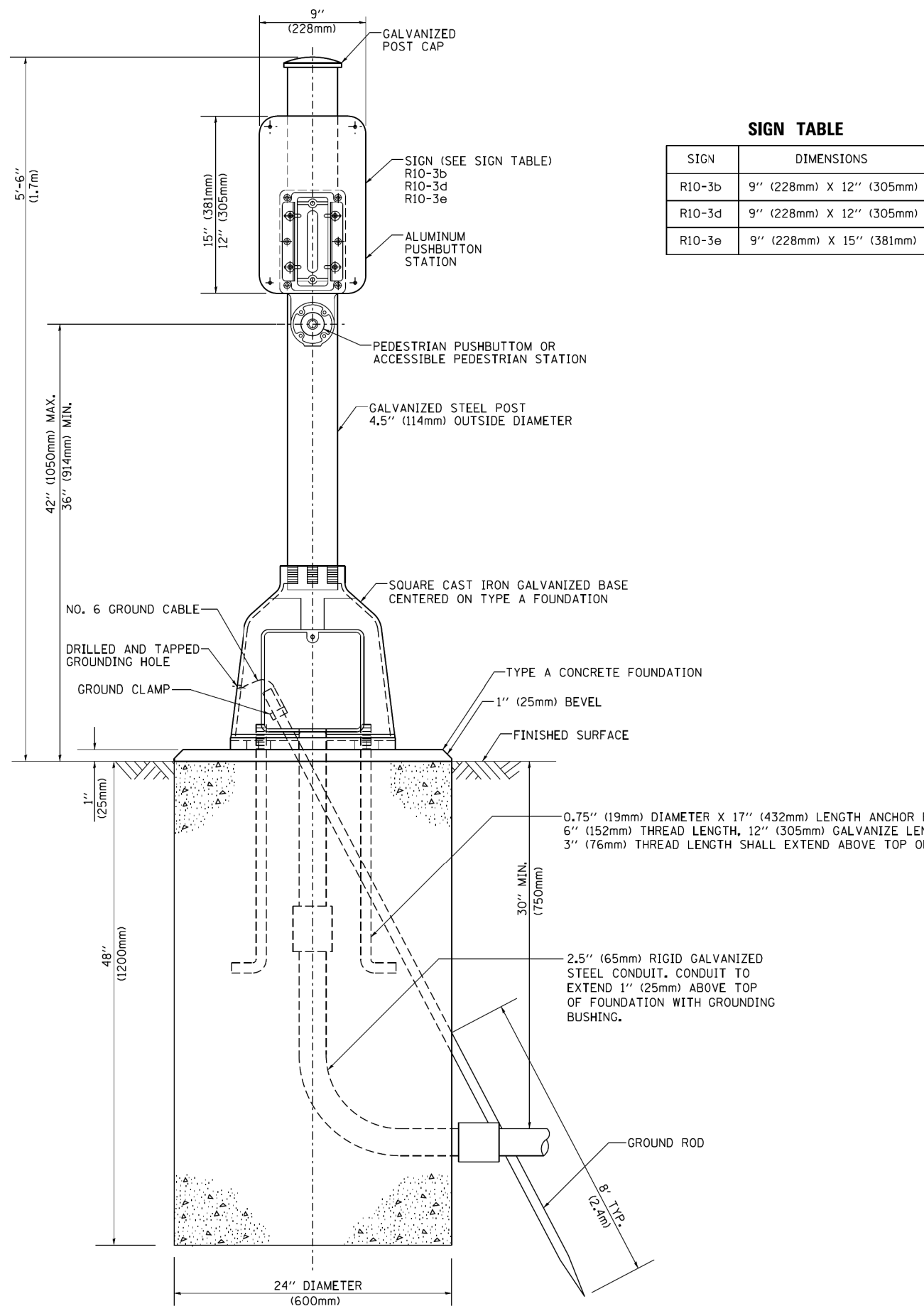
FILE NAME =	USER NAME = _USERNAME_	DESIGNED -	REVISED -
pw:\PW\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-DITS DETAIL6.dgn		CHECKED -	REVISED -
MODELNAME#	PLOT DATE = 8/22/2017	DATE -	REVISED -

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

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

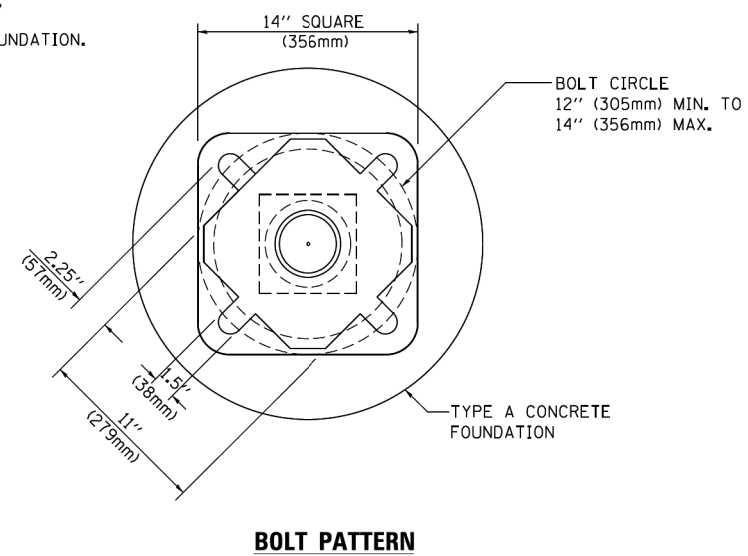
SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	49
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



**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)



**PEDESTRIAN PUSH BUTTON POST, TYPE A**

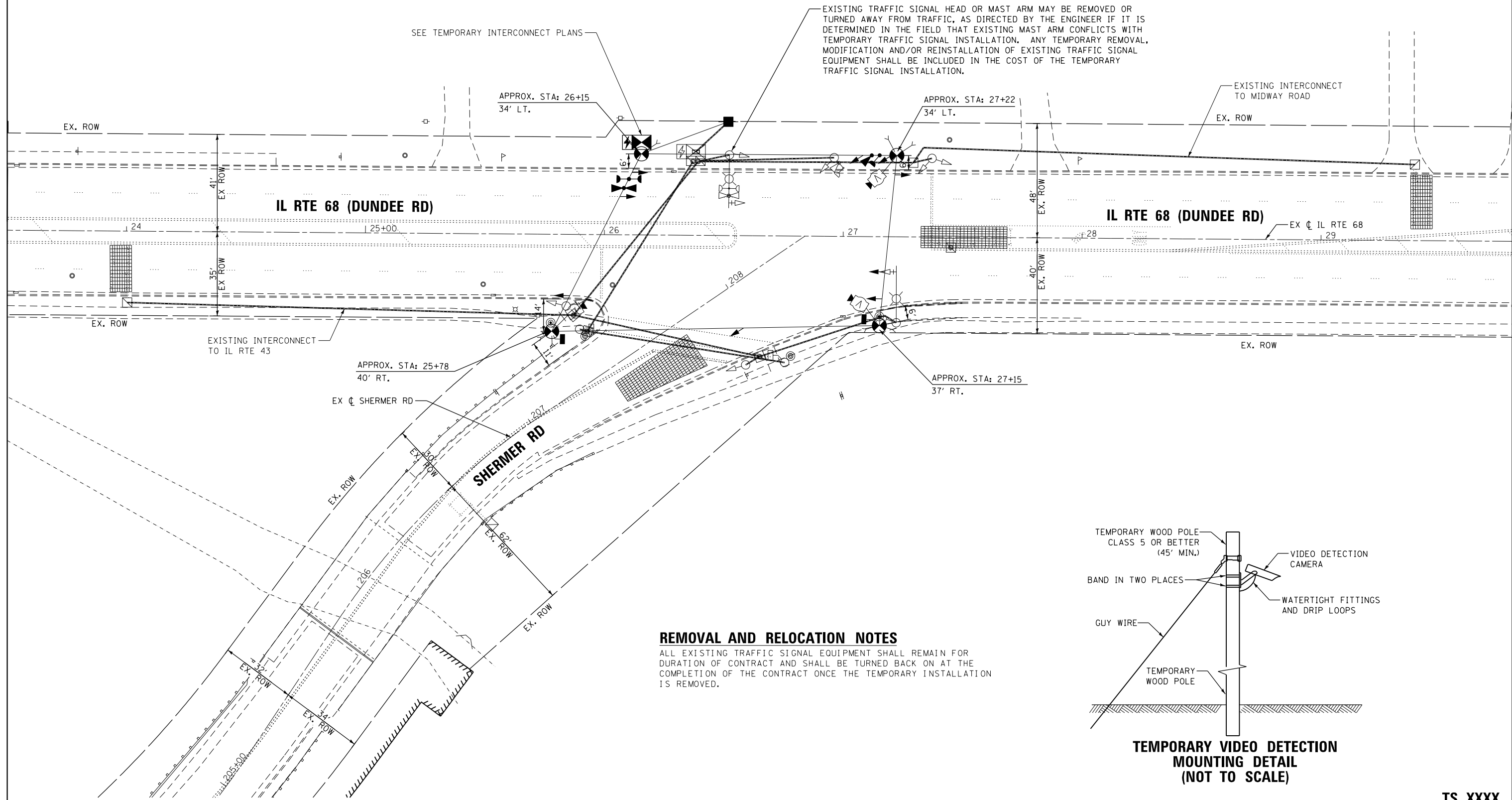
FILE NAME =	USER NAME = .USERNAME.	DESIGNED -	REVISED -
p:\pwl\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\DesignCAD\Sheet Files\01181\10-DITS DETAIL 7.dgn		REVISED -	REVISED -
*MODELNAME*	PLOT DATE = 8/22/2017	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

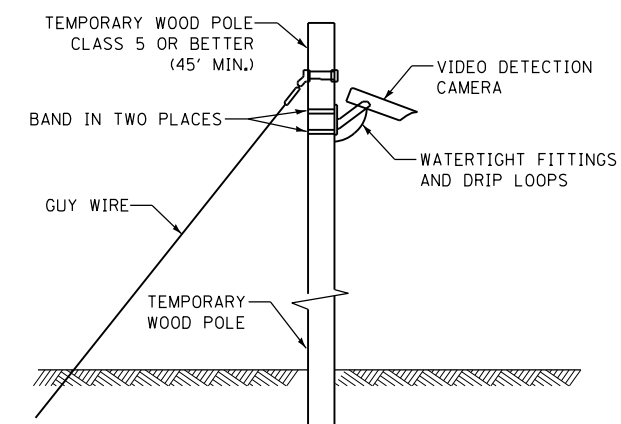
DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	50
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



**REMOVAL AND RELOCATION NOTES**  
 ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL REMAIN FOR DURATION OF CONTRACT AND SHALL BE TURNED BACK ON AT THE COMPLETION OF THE CONTRACT ONCE THE TEMPORARY INSTALLATION IS REMOVED.

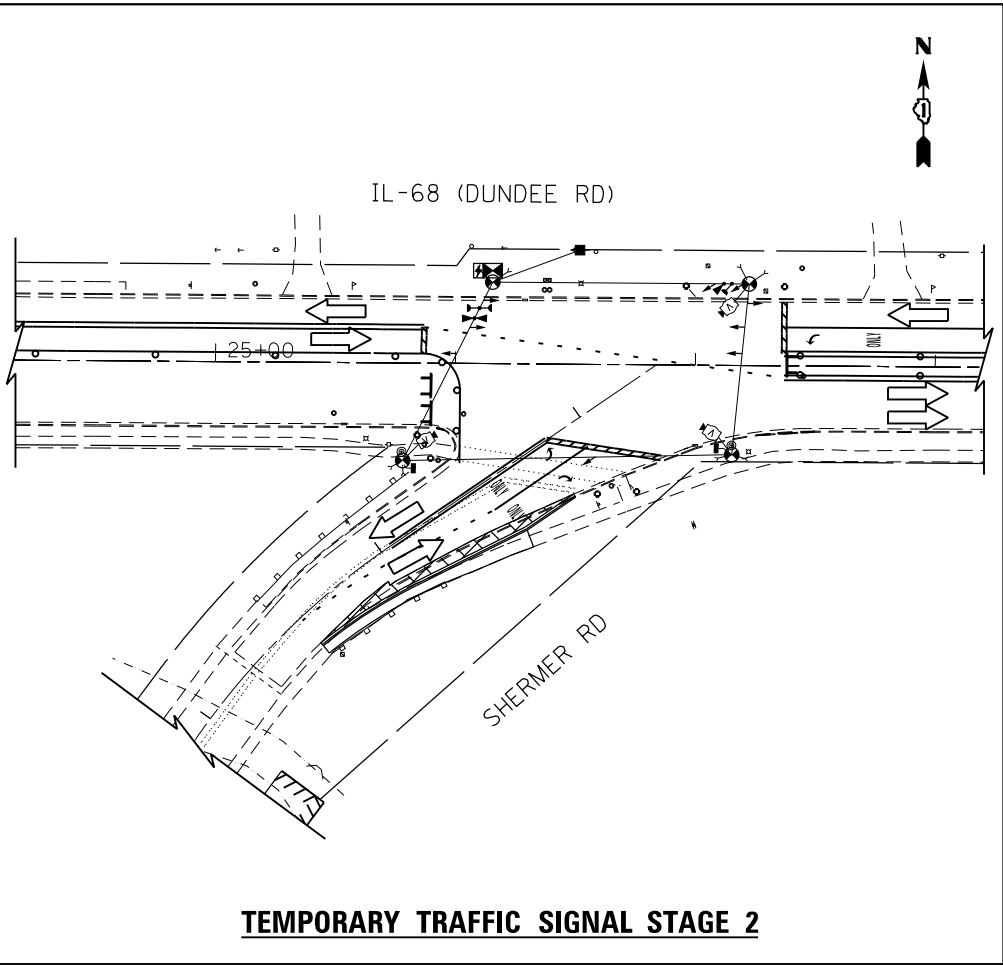
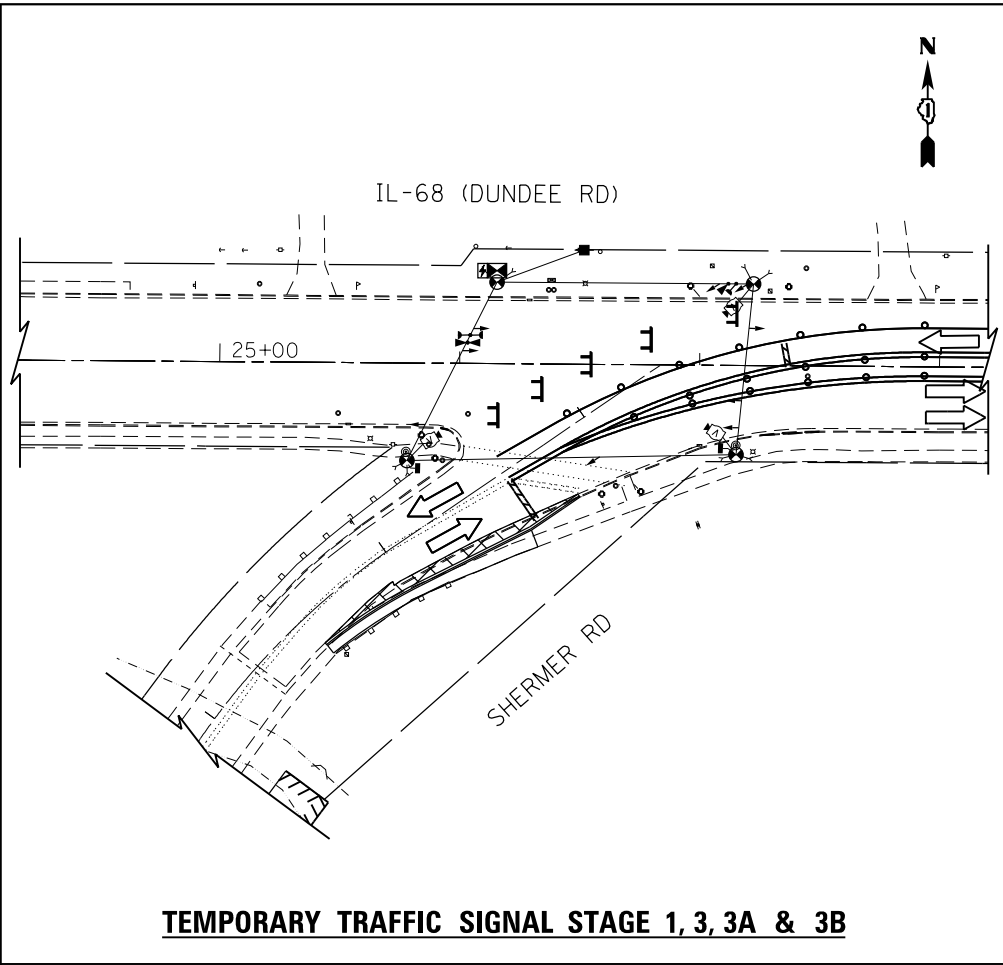
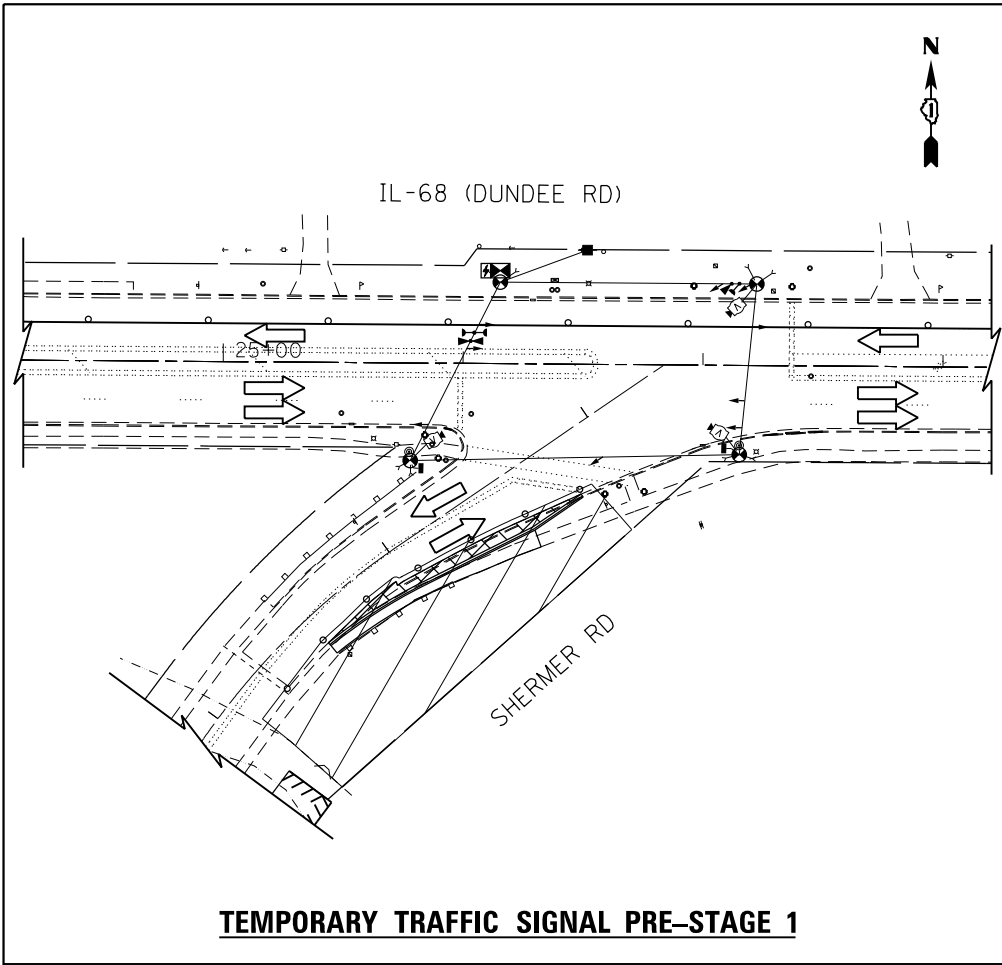


**TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)**

TS SHEET NO. 8

**TS XXXX  
 ECONOLITE 86**

FILE NAME =	USER NAME = _USERNAME_	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS        DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND        REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 1 OF 2)        IL ROUTE 68 AT SHERMER ROAD</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
pw:\PW\DLZcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-68TempSR1.dgn		CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET	OF	SHEETS	STA.	TO	STA.	343	30T-1	COOK	140	51
*MODELNAME*	PLOT DATE = 8/22/2017	DATE -	REVISED -									CONTRACT NO. 60J13				
												ILLINOIS FED. AID PROJECT				



TS SHEET NO. 9

TS XXXX  
ECONOLITE 86

FILE NAME =	USER NAME = _USERNAME_	DESIGNED -	REVISED -
p:\pwl\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\DesignCAD\Sheet Files\0118110-68TempSR2.dgn		CHECKED -	REVISED -
*MODELNAME*	PLOT DATE = 8/22/2017	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

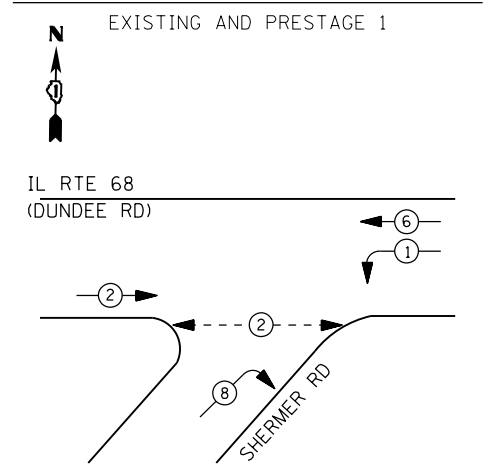
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 2 OF 2)  
IL ROUTE 68 AT SHERMER ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	52
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



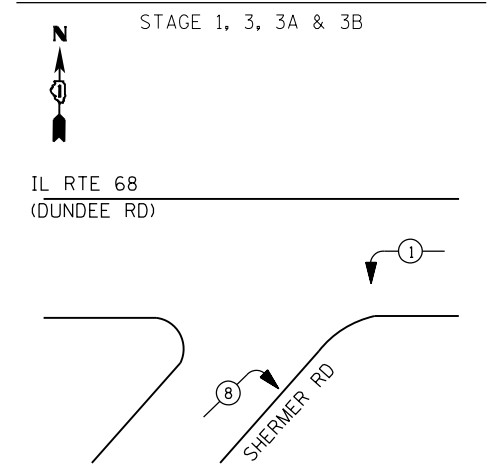
**PROPOSED CONTROLLER SEQUENCE**



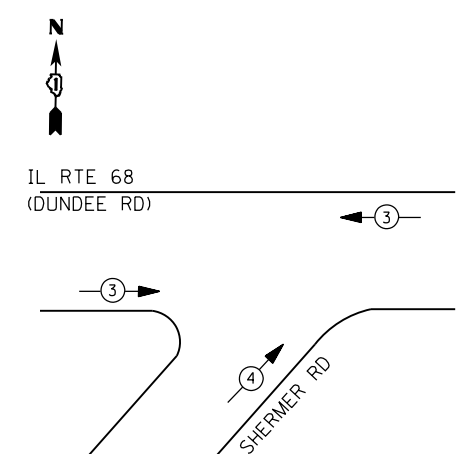
**LEGEND:**

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

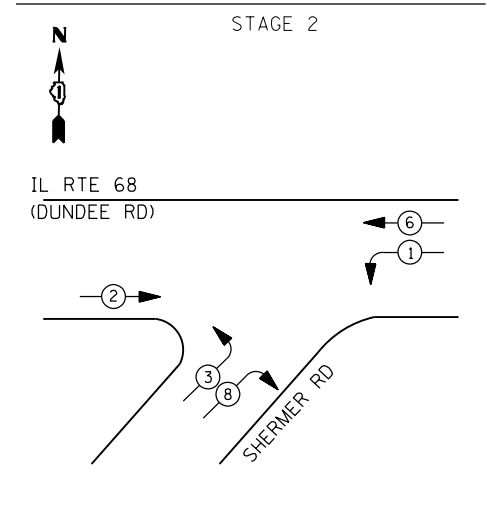
**PROPOSED CONTROLLER SEQUENCE**



**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**PROPOSED CONTROLLER SEQUENCE**

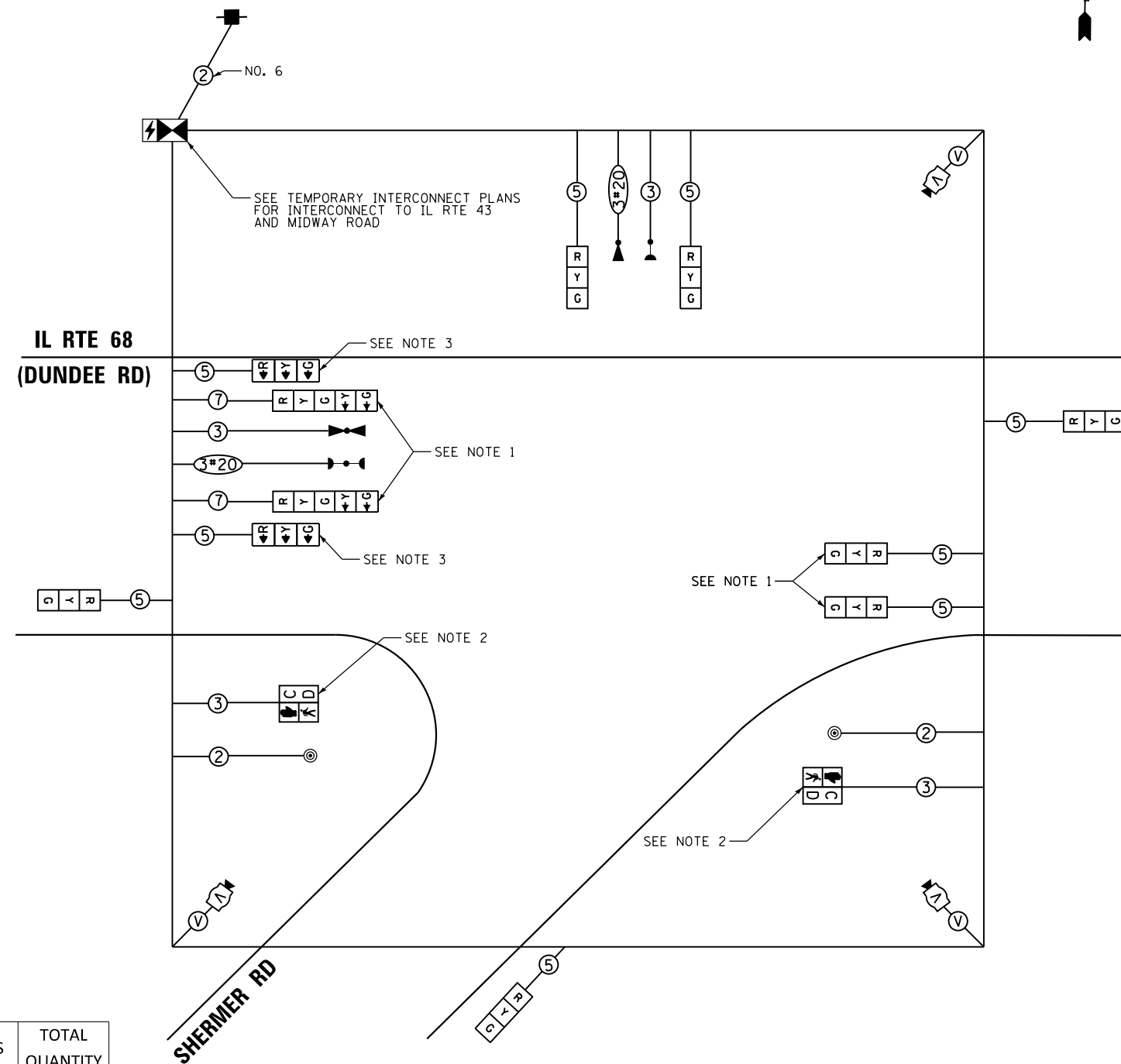


- NOTES:
1. SIGNAL TO BE BAGGED DURING STAGES 1, 3, 3A & 3B.
  2. SIGNAL TO BE BAGGED DURING STAGES 1, 2, 3, 3A, & 3B.
  3. SIGNAL TO BE BAGGED DURING PRESTAGE 1 & STAGE 2.

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	18

**IL RTE 68 (DUNDEE RD)**



**CABLE PLAN**  
(NOT TO SCALE)

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	4	10	10	16.0
PED. SIGNAL	2	20	100	40.0
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	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				426.1

ENERGY COSTS TO:  
 IDOT - DISTRICT 1  
 201 W. CENTER CT.  
 SCHAUMBURG, IL 60196  
 ENERGY SUPPLY: CONTACT: TERRI BLACK  
 PHONE: (847) 816-5239  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ---

TS SHEET NO. 10

FILE NAME =	USER NAME = .USERNAME.	DESIGNED -	REVISED -
pw:\PW\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-TempCabSR.dgn		REVISED -	
\$MODELNAME\$	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

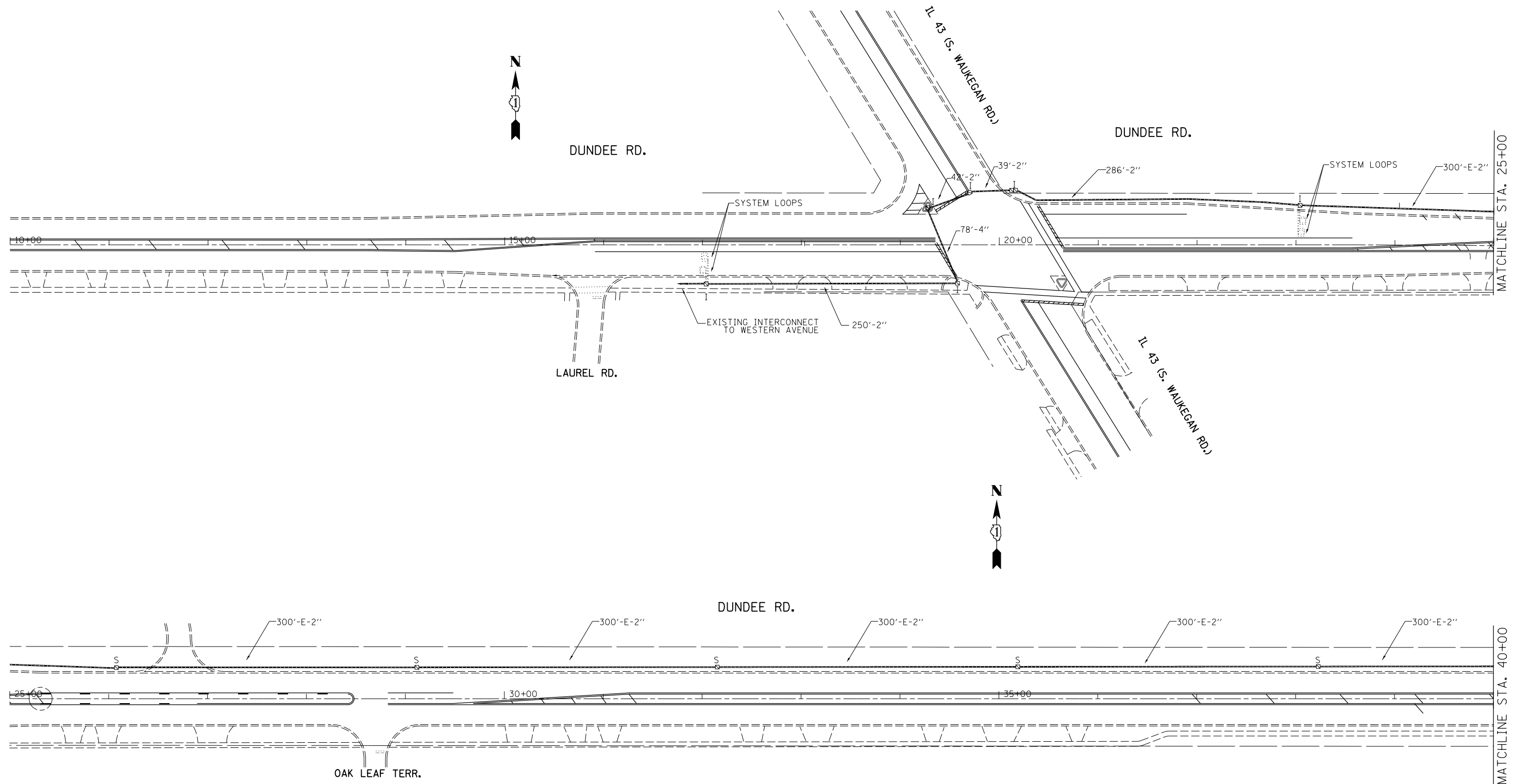
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,  
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL ROUTE 68 AT SHERMER ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	53
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

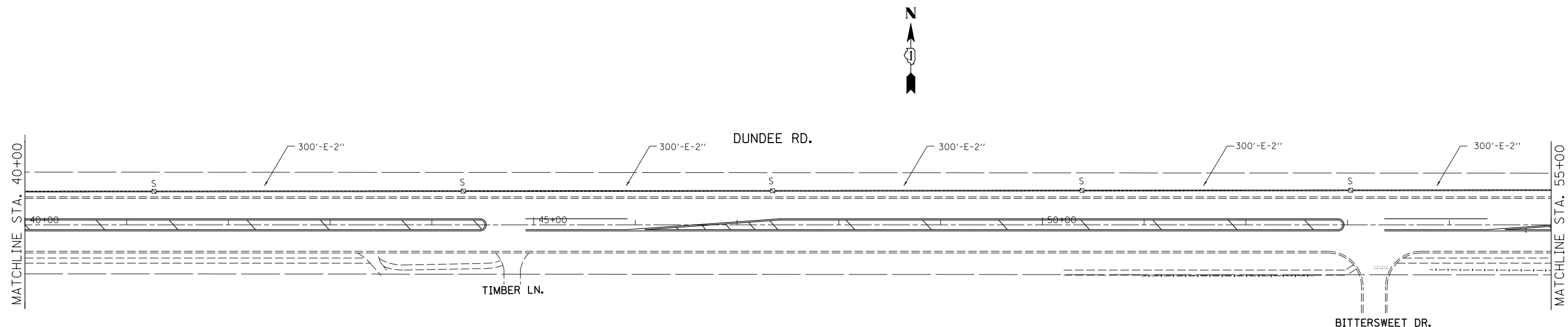
**TS XXXX  
ECONOLITE 86**



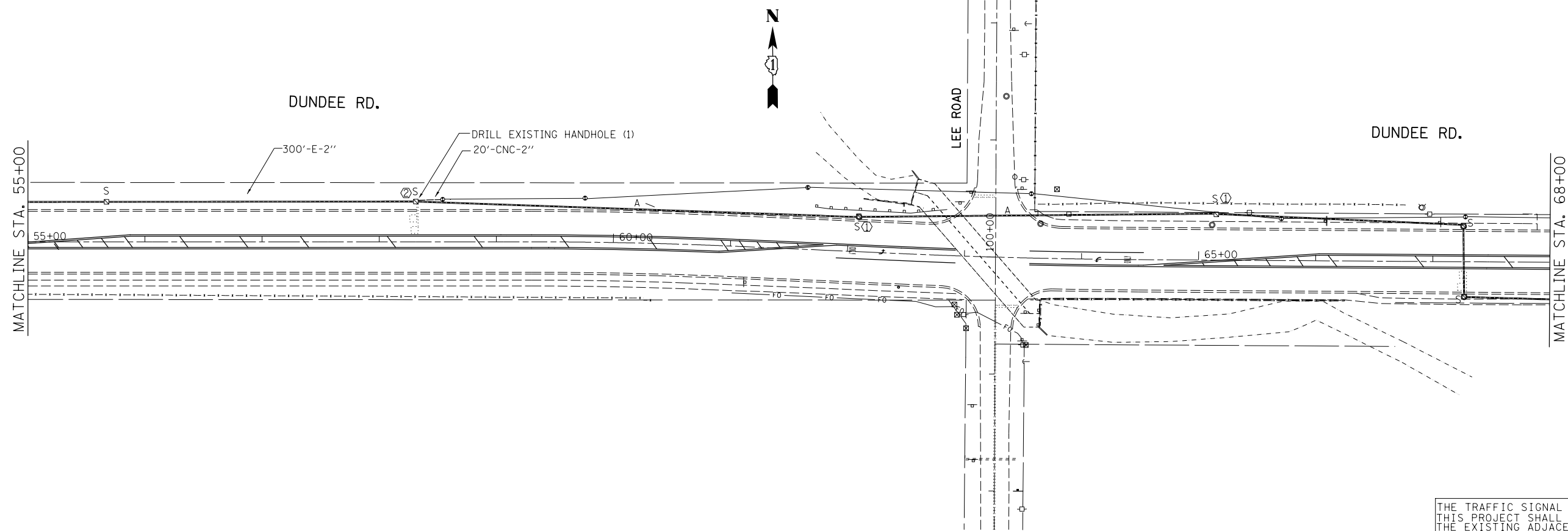
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**ECON 2N**

FILE NAME =	USER NAME = jandrews	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 3) IL RTE 68 - IL RTE 43 (WAUKEGAN RD) TO SHERMER RD.</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\3-1296 IL 68\DRAWINGS\CADD\Sheets\Subconsultant Sheets\T118510-shr-plan.dgn	DRAWN -	REVISED -	343			30T-1	COOK	140	54	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 8/22/2017	DATE -	REVISED -			SCALE:	SHEET 1 OF 8 SHEETS	STA.	TO STA.	



- ① REMOVE EXISTING HANDHOLE
- ② SPLICE 12 FIBER CABLE TO EXISTING FIBER CABLE TO MAINTAIN EXISTING INTERCONNECT UNTIL PROPOSED INTERCONNECT IS FULLY OPERATIONAL. 1" CNC AND DRILL EXISTING HANDHOLE TO BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.



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

**ECON 2N**

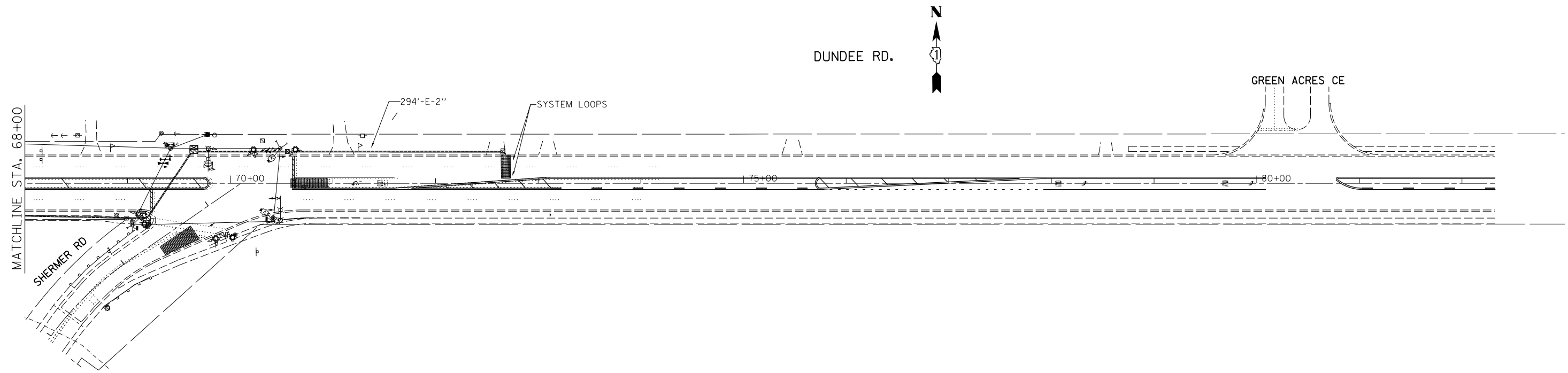
FILE NAME =	USER NAME = jandrews	DESIGNED -	REVISED -
F:\3-1296 IL 68\DRAWINGS\CADD\Sheets\Subconsultant Sheets\T118510-shr-plan.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN (SHEET 2 OF 3)  
IL RTE 68 - IL RTE 43 (WAUKEGAN RD) TO SHERMER RD.**

SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	55
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



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

**ECON 2N**

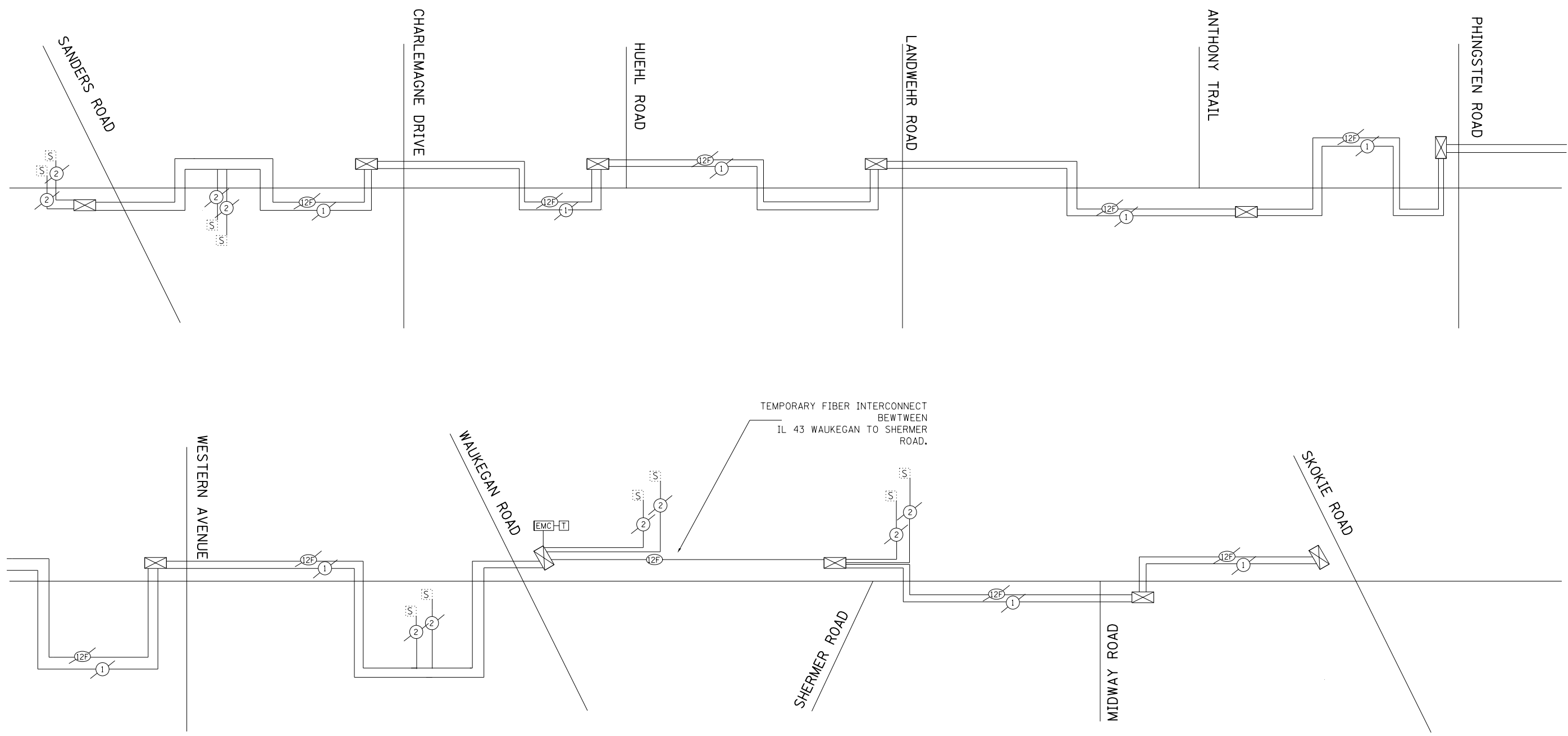
FILE NAME =	USER NAME = jandrews	DESIGNED -	REVISED -
F:\3-1296 IL 68\DRAWINGS\CADDSheets\Subconsultant Sheets\T118510-shr-plan.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN (SHEET 3 OF 3)  
IL RTE 68 - IL RTE 43 (WAUKEGAN RD) TO SHERMER RD.**

SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	56
				CONTRACT NO. 60J13
ILLINOIS FED. AID PROJECT				



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

**ECON 2N**

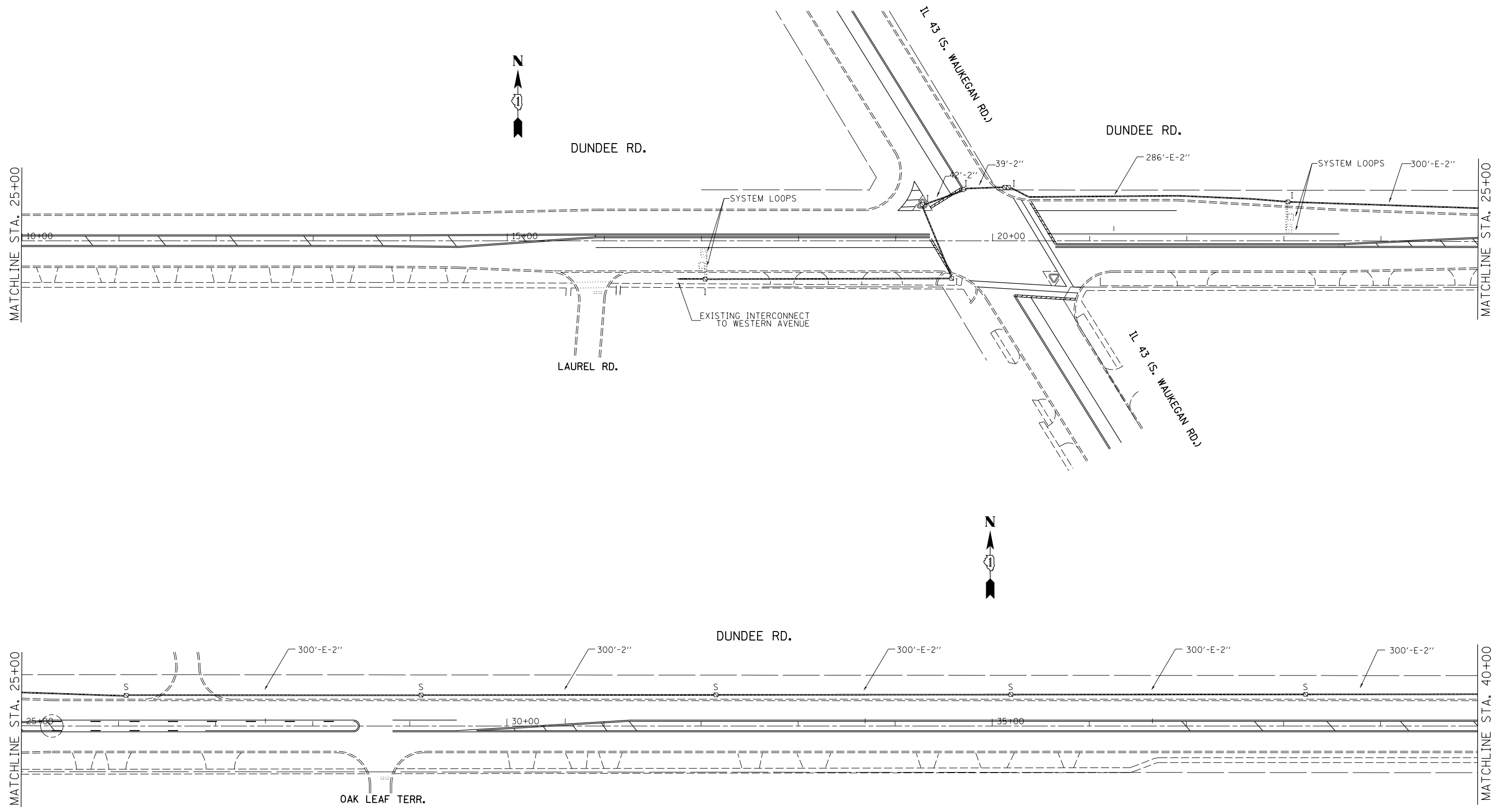
FILE NAME =	USER NAME = jandrews	DESIGNED -	REVISED -
F:\3-1296 IL 68\DRAWINGS\CADDSheets\Subconsultant Sheets\T118510-shr-plan.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC  
IL RTE 68 - IL RTE 43 (WAUKEGAN RD) TO SHERMER RD.**

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

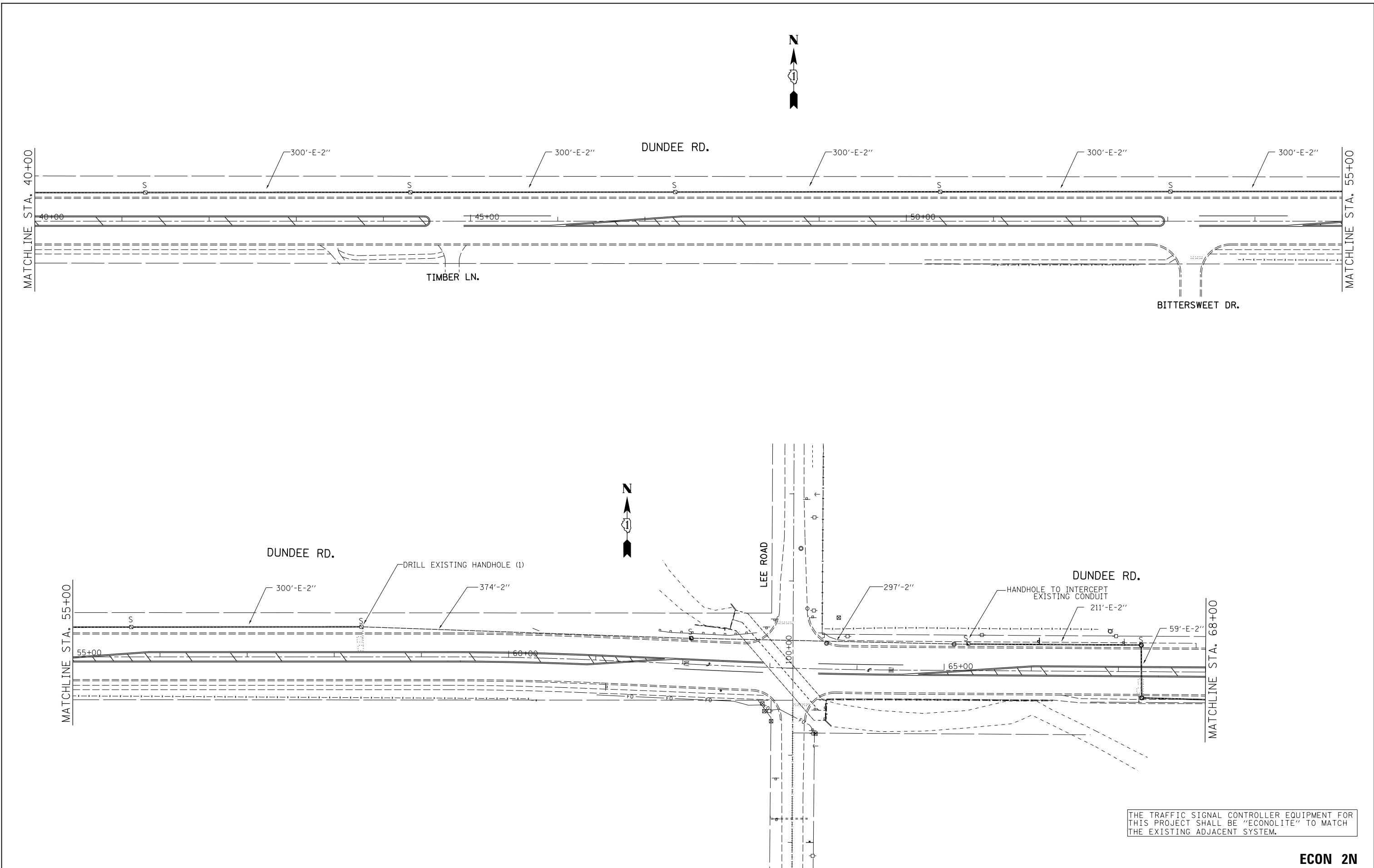
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	57
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



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

**ECON 2N**

FILE NAME = F:\3-1296 IL 68\DRAWINGS\CADD\Sheets\Subconsultant Sheets\T118510-shr-plan.dgn	USER NAME = jandrews	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERCONNECT PLAN (SHEET 1 OF 3) IL RTE 68 - IL RTE 43 (WAUKEGAN RD) TO SHERMER RD.</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			343	30T-1	COOK	140	58	
	PLOT DATE = 8/22/2017	CHECKED -	REVISED -			CONTRACT NO. 60J13					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



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

**ECON 2N**

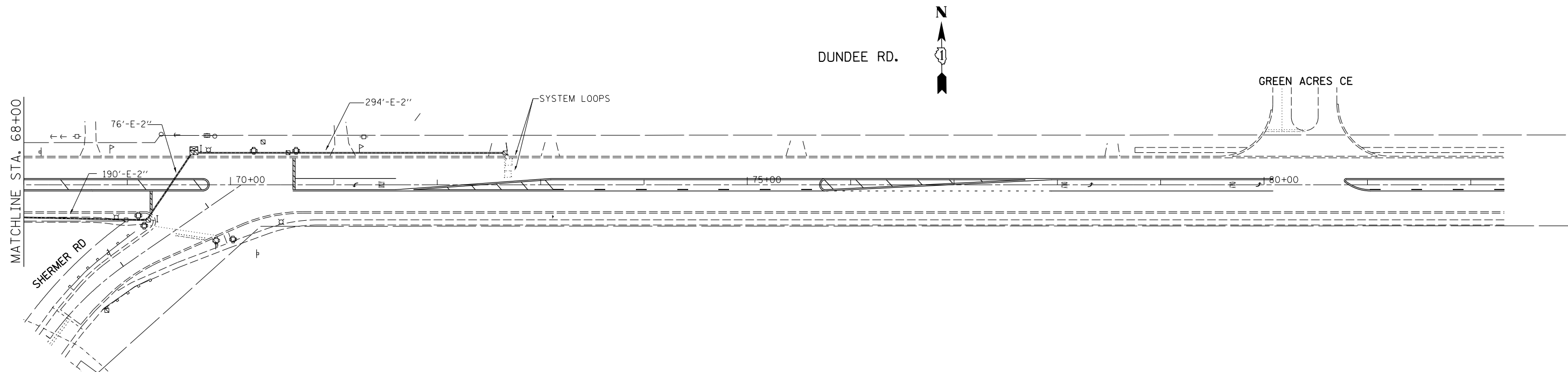
FILE NAME =	USER NAME = jandrews	DESIGNED -	REVISED -
F:\3-1296 IL 68\DRAWINGS\CADDSheets\Subconsultant Sheets\T118510-shr-plan.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN (SHEET 2 OF 3)  
IL RTE 68 - IL RTE 43 (WAUKEGAN RD) TO SHERMER RD.**

SCALE: SHEET 6 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	59
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



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

**ECON 2N**

FILE NAME =	USER NAME = jandrews	DESIGNED -	REVISED -
F:\3-1296 IL 68\DRAWINGS\CADD\Sheets\Subconsultant Sheets\T118510-shr-plan.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

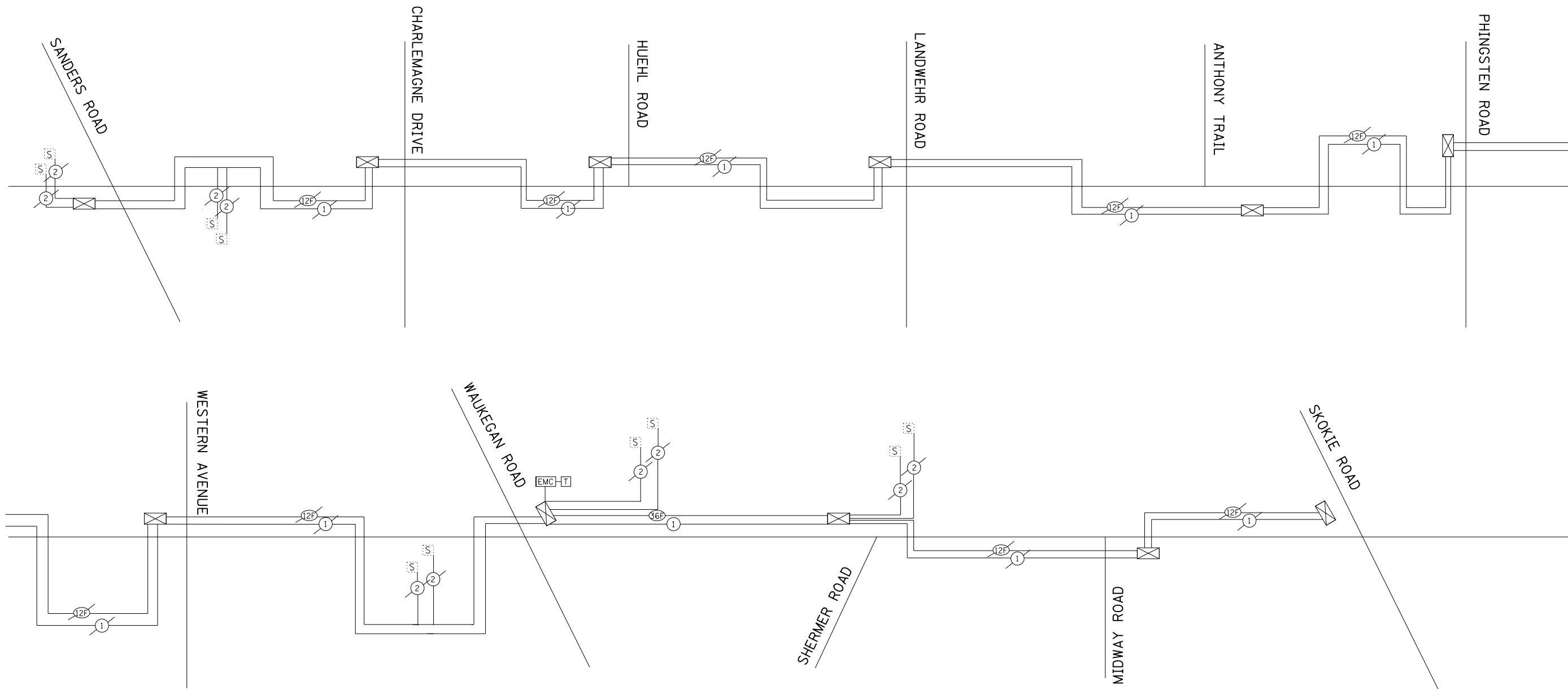
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN (SHEET 3 OF 3)  
IL RTE 68 - IL RTE 43 (WAUKEGAN RD) TO SHERMER RD.**

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	60
				CONTRACT NO. 60J13
ILLINOIS FED. AID PROJECT				





**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5145
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5145
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5145
RE OPTIMIZATION TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
* ROD AND CLEAN EXISTING CONDUIT	FOOT	400
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	671
HANDHOLE	EACH	2
REMOVE HANDHOLE	EACH	2
DRILL EXISTING HANDHOLE	EACH	1

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

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

**ECON 2N**

FILE NAME =	USER NAME = jandrews	DESIGNED -	REVISED -
F:\3-1296 IL 68\DRAWINGS\CADDSheets\Subconsultant Sheets\T118510-sht-plan.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

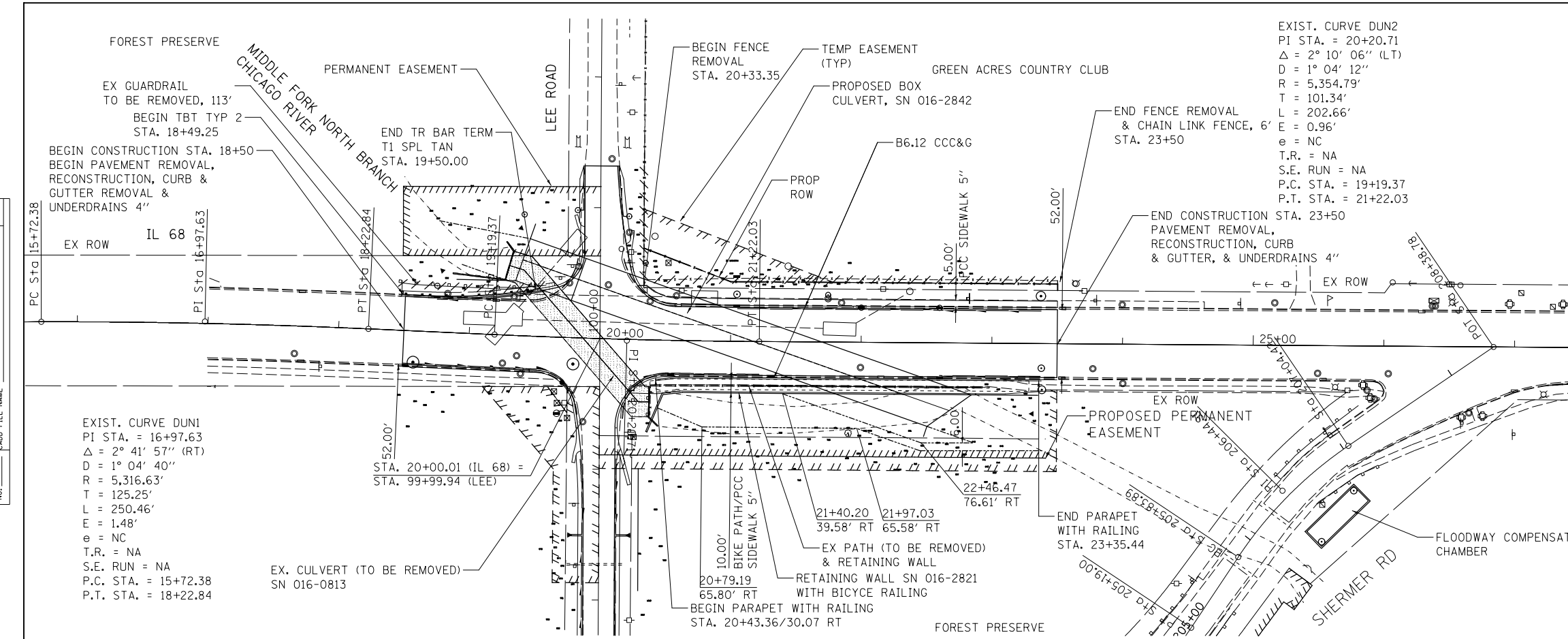
**INTERCONNECT SCHEMATIC  
IL RTE 68 - IL RTE 43 (WAUKEGAN RD) TO SHERMER RD.**

SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	61
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



EXIST. CURVE DUN1  
 PI STA. = 16+97.63  
 $\Delta = 2^\circ 41' 57''$  (RT)  
 $D = 1^\circ 04' 40''$   
 $R = 5,316.63'$   
 $T = 125.25'$   
 $L = 250.46'$   
 $E = 1.48'$   
 $e = NC$   
 $T.R. = NA$   
 $S.E. RUN = NA$   
 $P.C. STA. = 15+72.38$   
 $P.T. STA. = 18+22.84$

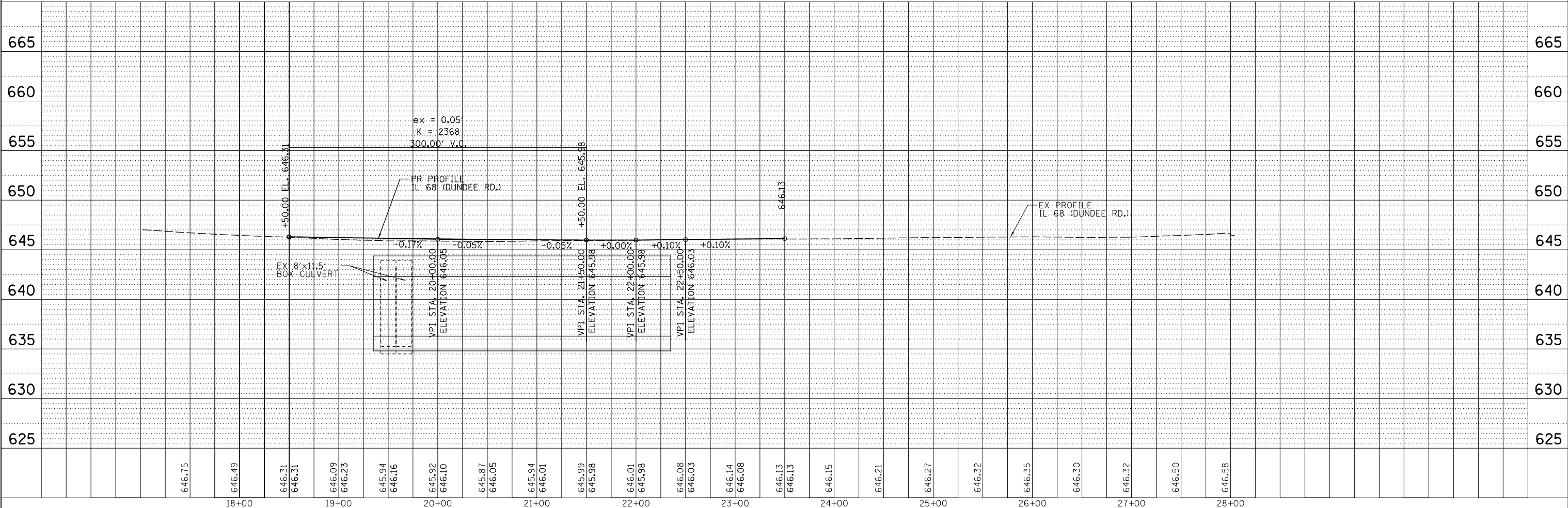
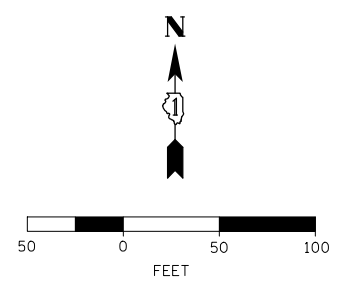
EXIST. CURVE DUN2  
 PI STA. = 20+20.71  
 $\Delta = 2^\circ 10' 06''$  (LT)  
 $D = 1^\circ 04' 12''$   
 $R = 5,354.79'$   
 $T = 101.34'$   
 $L = 202.66'$   
 $E = 0.96'$   
 $e = NC$   
 $T.R. = NA$   
 $S.E. RUN = NA$   
 $P.C. STA. = 19+19.37$   
 $P.T. STA. = 21+22.03$

**NOTES:**  
 SEE INTERSECTION DETAIL SHEET FOR PAVEMENT GRADES & GEOMETRICS.

HMA MIX ON IL 68 AS FOLLOWS:  
 2" POLYMERIZED HMA SURFACE COURSE, MIX "E" N70 (IL 9.5mm)  
 2 1/4" POLYMERIZED HMA BINDER COURSE, IL-19.0, N90  
 7 1/4" HMA BINDER COURSE, IL-19.0, N90

HMA MIX ON LEE ROAD AS FOLLOWS:  
 2" POLYMERIZED HMA SURFACE COURSE, MIX "E" N70 (IL 9.5mm)  
 2 1/4" POLYMERIZED HMA BINDER COURSE, IL-19.0, N90  
 7 3/4" HMA BINDER COURSE, IL-19.0, N90

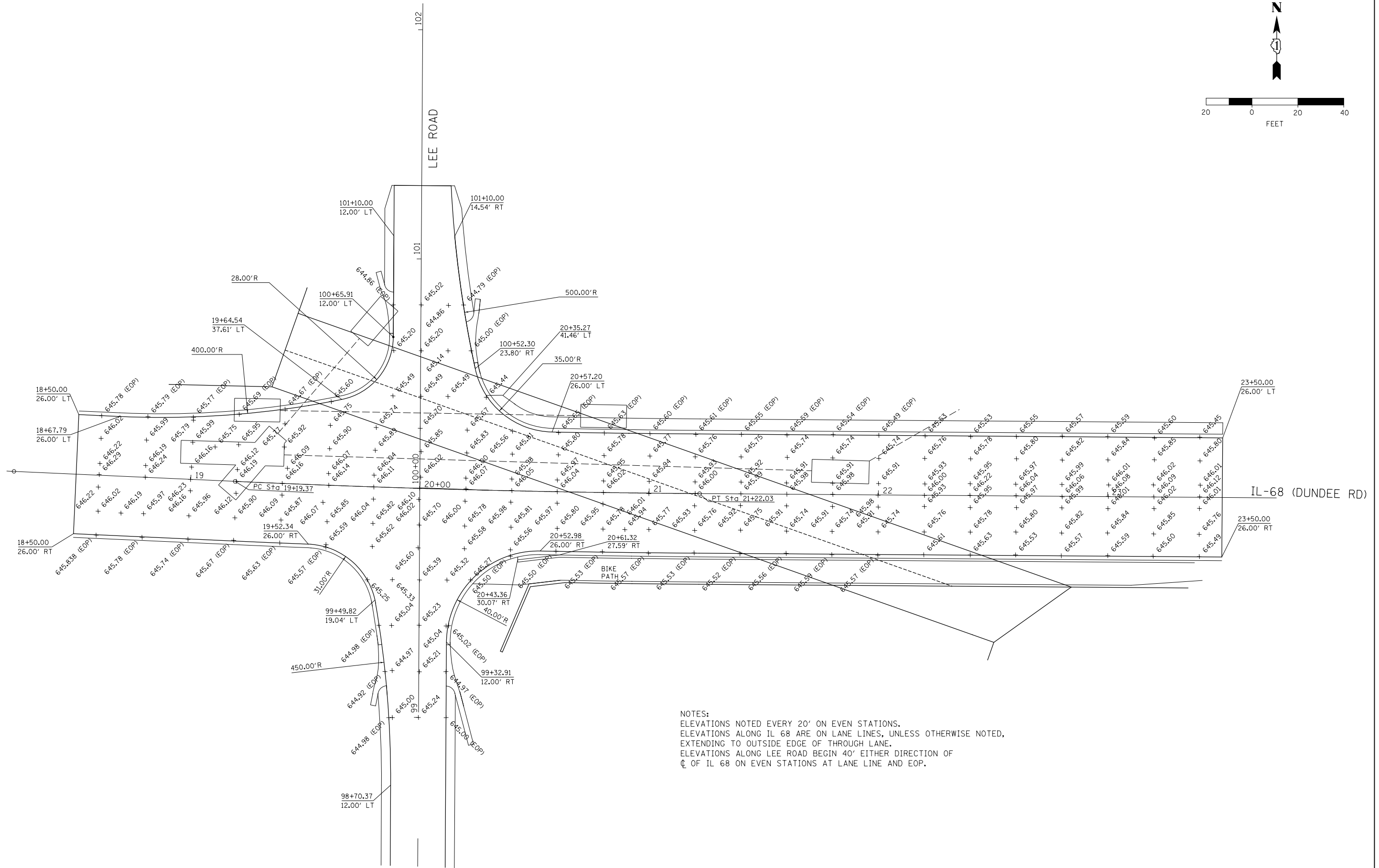
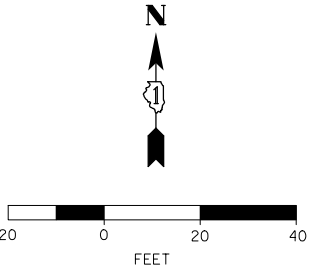
PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 601001.05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.



MODEL NAME - Default  
 FILE NAME - F:\31256 IL 68\DRAWINGS\CADD\Sheet\0150-sfr-shmfr.dgn

<p><b>BLOOM COMPANIES, LLC</b>          Infrastructure Development and Design          800 W. Fulton Street, Suite 701 • Chicago, IL 60601          Phone: (312) 878-9600 Fax: (312) 878-9600</p>	USER NAME = jandrews	DESIGNED - MMO	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL 68 AT MFNB CHICAGO RIVER</b> <b>IL 68 PLAN &amp; PROFILE</b>				F.A.P. RTE. = 343	SECTION = 30T-1	COUNTY = COOK	TOTAL SHEETS = 140	SHEET NO. = 62
	PLOT SCALE = 100.0000' / 1"	CHECKED - MMO	REVISED -		SCALE: 1" = 50'				SHEET 1 OF 2 SHEETS STA. 16+00.00 TO STA. 29+00.00				
	PLOT DATE = 8/23/2017	DATE -	REVISED -						CONTRACT NO. 60J13				
	ILLINOIS FED. AID PROJECT												





NOTES:  
 ELEVATIONS NOTED EVERY 20' ON EVEN STATIONS.  
 ELEVATIONS ALONG IL 68 ARE ON LANE LINES, UNLESS OTHERWISE NOTED,  
 EXTENDING TO OUTSIDE EDGE OF THROUGH LANE.  
 ELEVATIONS ALONG LEE ROAD BEGIN 40' EITHER DIRECTION OF  
 C OF IL 68 ON EVEN STATIONS AT LANE LINE AND EOP.

MODEL NAME: Detail  
 FILE NAME: F:\21256 IL 68 CHICAGO RIVER\Drawings\CHICAGO\_RIVER\343.dwg  
 DATE: 8/23/2017



USER NAME = jandrews	DESIGNED - BL	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

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

<b>IL 68 AT MFNB CHICAGO RIVER</b> <b>INTERSECTION DETAIL</b>			
SCALE: 1" = 20'	SHEET	OF SHEETS	STA. TO STA.

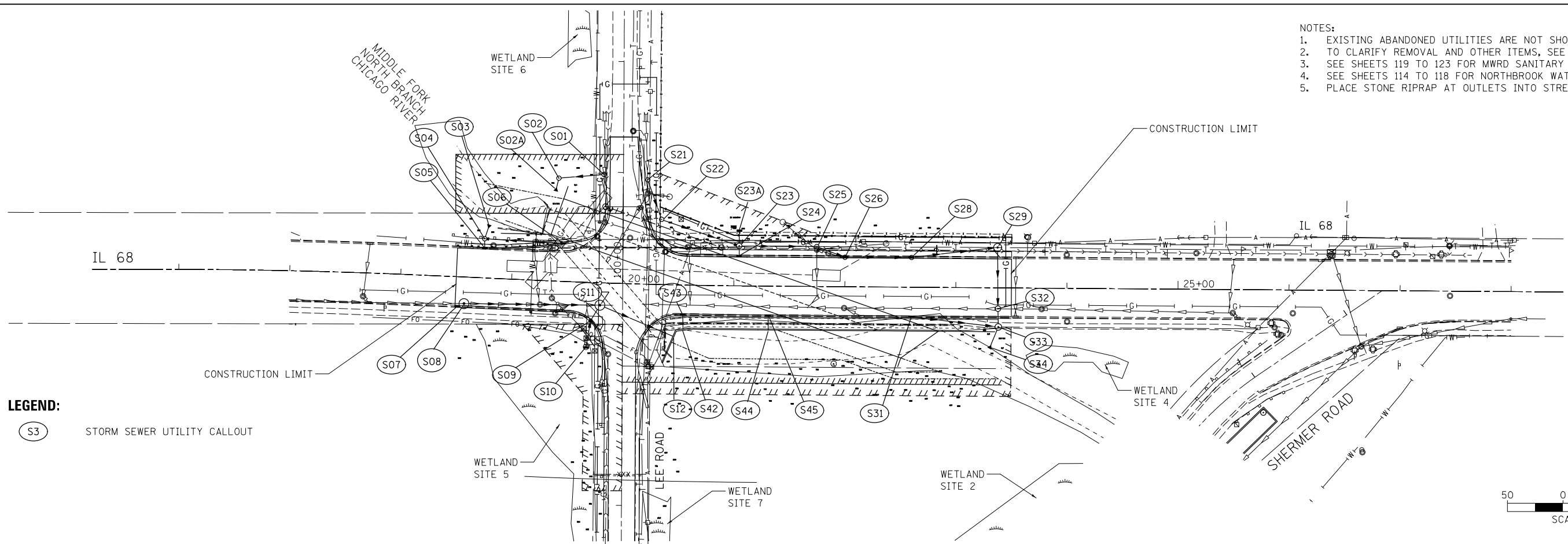
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	64
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



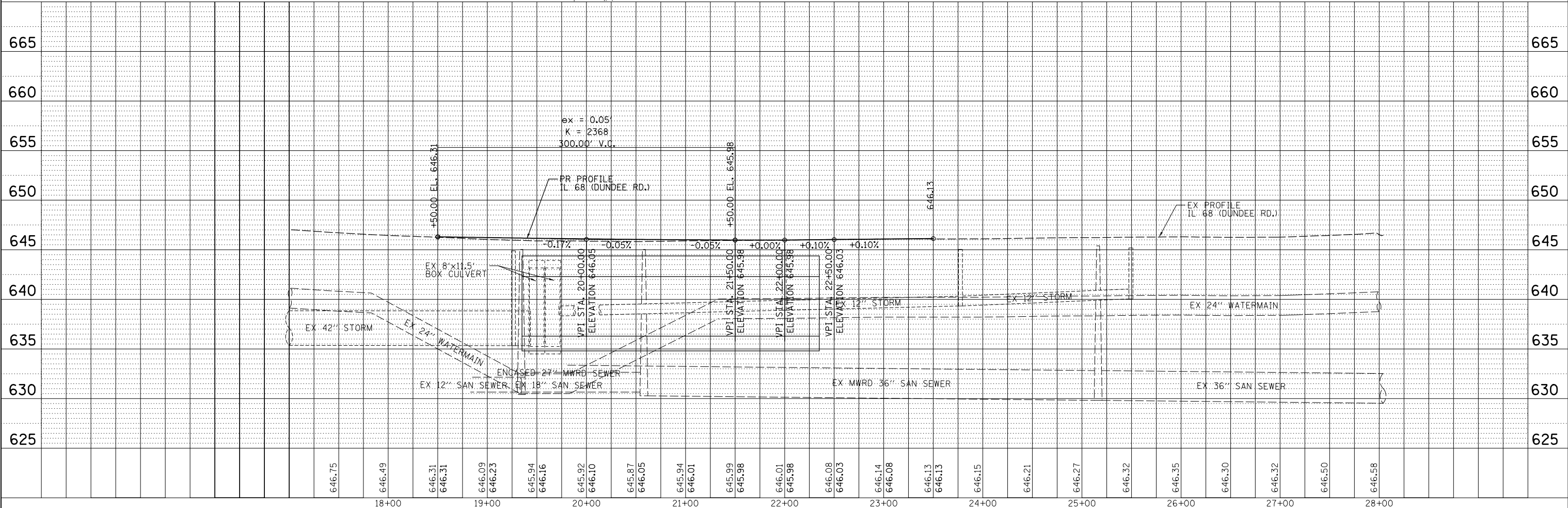
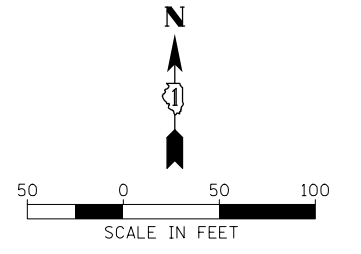
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		

- NOTES:
- EXISTING ABANDONED UTILITIES ARE NOT SHOWN.
  - TO CLARIFY REMOVAL AND OTHER ITEMS, SEE SCHEDULES.
  - SEE SHEETS 119 TO 123 FOR MWRD SANITARY SEWER IMPROVEMENTS.
  - SEE SHEETS 114 TO 118 FOR NORTHBROOK WATERMAIN IMPROVEMENTS.
  - PLACE STONE RIPRAP AT OUTLETS INTO STREAM



**LEGEND:**  
 (S3) STORM SEWER UTILITY CALLOUT



FILE NAME = F:\3\256 IL 68\DRAWINGS\CADD\Sheet\01850-sfr-drain.dwg

<p><b>BLOOM COMPANIES, LLC</b>          Infrastructure Development and Design          800 W. Fulton Street, Suite 701 • Chicago, IL 60611          Phone: (312) 878-9600 Fax: (312) 878-9600</p>	USER NAME = jandrews DESIGNED - MMO DRAWN - BL CHECKED - CN DATE - PLOT SCALE = 100.0000' / 1"	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>DRAINAGE AND UTILITIES</b> <b>PLAN &amp; PROFILE</b>		F.A.P. RTE. 343 SECTION 30T-1 COUNTY COOK TOTAL SHEETS 140 SHEET NO. 66 CONTRACT NO. 60J13
	PLOT DATE = 8/24/2017	SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT					



STORM SEWER RUN	STORM SEWER (SS) OR CULVERT TYPE*	PAY ITEM NO.	LENGTH (FT)	SLOPE %	TRENCH BACKFILL (CU YD) 20800150
S01 TO S02	SS, TYPE 1, WAT MN, 18"	Z0056652	36	0.8	0.0
S02 TO S02A	SS, CL A, TYPE 1 18"	550A0090	9	0.3	0.0
S06 TO S04	SS, CL A, TYPE 1 12"	550A0050	69	2.7	7.9
S05 TO S04	SS, CL A, TYPE 1 12"	550A0050	7	31	0.8
S04 TO S03	SS, CL A, TYPE 1 15"	550A0070	11	0.4	0.0
S07 TO S08	SS, CL A, TYPE 1 12"	550A0050	2	52	0.1
S08 TO S11	SS, CL A, TYPE 2 60"	550A0500	116	0.06	176.7
S10 TO S09	SS, CL A, TYPE 1, 12"	550A0050	22	0.50	2.7
S09 TO S11	SS, TYP 2, WAT MN, 12"	Z0056668	12	0.90	4.6
S11 TO S12	SS, CL A, TYPE 2 60"	550A0500	67	0.04	102.0
S21 TO S22	SS, CL A, TYPE 1 24"	550A0120	34	0.17	0.0
S22 TO S23	SS, CL A, TYPE 1 24"	550A0120	70	0.17	0.0
S23A TO S23	SS, CL A, TYPE 1 12"	550A0050	12	0.05	0.0
S24 TO S23	SS, CL A, TYPE 1 12"	550A0050	7	17	2.1
S23 TO S25	SS, CL A, TYPE 2 24"	550A0410	67	0.17	0.0
S25 TO S26	SS, CL A, TYPE 2 24"	550A0410	28	0.17	9.2
S26 TO S28	SS, CL A, TYPE 2 24"	550A0410	56	0.17	27.6
S28 TO S29	SS, CL A, TYPE 2 24"	550A0410	74	0.17	15.6
S29 TO S32	SS, TYPE 2, WAT MN, 24"	Z0056672	50	0.17	36.6
S32 TO S33	SS, CL A, TYPE 2 30"	550A0430	11	0.17	4.1
S33 TO S34	SS, CL A, TYPE 2 30"	550A0430	17	0.14	0.0
S31 TO S33	SS, CL A, TYPE 1 12"	550A0050	76	2.60	10.3
S43 TO S42	SS, CL A, TYPE 1 12"	550A0050	13	14.0	2.0
S45 TO S44	SS, CL A, TYPE 1 12"	550A0050	13	14.0	1.6
S51 TO J1	PIPE CULVERTS, CL A TYPE 1 24"	542A0229	18	0.08	0.0

NOTES:

ALL STORM SEWERS AND CULVERTS SHALL BE RCCP.

\*\* ROADWAY PAVEMENT DRAINAGE COLLECTION OFFSET AND ELEVATIONS SHOWN IS TO EDGE OF PAVEMENT IN FRONT OF THE DRAINAGE STRUCTURE.

STRUCTURE NO.	STRUCTURE TYPE	PAY ITEM NO.	ELEVATIONS RIM / INVERTS	STATION & OFFSET
S01	MH, TYPE A, 4' DIA, TYP 1 FRAME, OPEN, LID	60218300	644.50 (RIM) 641.60± N (INV) 641.00 W (INV)	100+98.06 17.39' LT (LEE RD)
S02	MH, TYPE A, 4' DIA, TYP 1 FRAME, OPEN, LID	60218300	643.30 (RIM) 640.70 E (INV) 639.53 S (INV)	100+94.53 58.08' LT (LEE RD)
S02A	PRC FES, 18"	54213663	639.50	100+83.99 60.60' LT (LEE RD)
S03	PRC FES, 15"	54213660	639.80	18+77.44 47.01' LT (IL 68)
S04	MH, TYPE A, 4' DIA, TYP 1 FRAME, OPEN LID	60218300	645.90 (RIM) 641.10 E (INV) 641.10 S (INV) 639.83 N (INV)	18+73.97 35.37' LT (IL 68)
S05	INLET, TYP A, TYP 12 F & G	60236900	645.75 (RIM) 642.95 N (INV)	18+74.42 **26.05' LT (IL 68)
S06	INLET, TYP A, TYP 12 F & G	60236900	645.63 (RIM) 642.83 NW (INV)	19+45.15 **33.46' LT (IL 68)
S07	INLET, TYP A, TYP 12 F & G	60236900	645.61 (RIM) 642.81 NW (INV)	18+51.99 **26' RT (IL 68)
S08	MH, TYPE A, 9' DIA, TYP 1 FRAME, OPEN LID	60224470	645.78 (RIM) 635.20± W (INV) 635.20 E (INV) 641.78 SE (INV)	18+58.00 23.92' RT (IL 68)
S09	CATCH BASINS, TYPE A, 4' DIA., TYP 12 FRAME AND GRATE	60201205	645.39 (RIM) 639.20 S (INV) 639.10 NE (INV)	19+72.29 **33.42' RT (IL 68)
S10	INLETS, TYPE A, TYPE 8 GRATE	60236200	641.20 (RIM) 639.30 N (INV)	99+42.30 32.80' LT (LEE RD)
S11	MH, TYPE A, 9' DIA, TYP 1 FRAME, OPEN LID	60224470	645.72 (RIM) 635.13 W (INV) 635.13 E (INV) 639.00 SW (INV)	19+80.11 20.13' RT (IL 68)
S12	OUTFALL THRU RETAINING WALL	NA	635.10 (INV)	20+33.32 55.59' RT (IL 68)
S21	MH, TYPE A, 4' DIA, TYP 5 FRAME, OPEN LID	60218700	644.67 (RIM) 641.60± N (INV) 641.50 N (INV)	100+93.57 21.91' RT (LEE RD)
S22	MH, TYPE A, 4' DIA, TYP 5 FRAME, OPEN LID	60218700	643.96 (RIM) 640.71 N (INV) 640.61 SE (INV)	100+58.01 34.70' RT (LEE RD)
S23	MH, TYPE A, 5' DIA, TYP 1 FRAME, OPEN LID	60221000	645.90 (RIM) 640.50 W (INV) 640.40 E (INV) 641.10 S (INV) 640.45 N (INV)	21+04.45 49.72' LT (IL 68)
S23A	INLETS, TYPE A, WITH MEDIAN INLET (604101)	60238305	642.10 (RIM) 640.50 (INV)	21+02.15 49.77' LT (IL 68)
S24	INLET, TYP A, TYP 12 F & G	60236900	645.60 (RIM) 642.80 N (INV)	21+04.53 **26' LT (IL 68)
S25	MH, TYPE A, 4' DIA, TYP 1 FRAME, OPEN LID	60218300	645.90 (RIM) 640.29 W (INV) 640.19 SE (INV)	21+74.48 36.00' LT (IL 68)
S26	MH, TYPE A, 4' DIA, TYP 12 F & G	60219400	645.49 (RIM) 640.14 NW (INV) 640.14 E (INV)	21+99.96 **26' LT (IL 68)
S27	NOT USED			
S28	MH, TYPE A, 4' DIA, TYP 12 F & G	60219400	645.55 (RIM) 640.05 E (INV) 640.05 W (INV)	22+59.90 **26' LT (IL 68)
S29	MH, TYPE A, 5' DIA, TYP 1 FRAME, OPEN LID	60221000	645.85 (RIM) 639.93 W (INV) 639.83 S (INV)	23+37.34 36.00' LT (IL 68)

STRUCTURE NO.	STRUCTURE TYPE	PAY ITEM NO.	ELEVATIONS RIM / INVERTS	STATION & OFFSET
S31	INLET, TYP A, TYP 12 F & G	60236900	645.53 (RIM) 642.90 E (INV)	22+60.18 **26' RT (IL 68)
S32	MH, TYPE A, 5' DIA, TYP 1 FRAME, OPEN LID - FLAT SLAB	60221000	645.75 (RIM) 639.75 N (INV) 639.30 S (INV) 639.30± E (INV)	23+38.00 18.80' RT (IL 68)
S33	MH, TYPE A, 6' DIA, TYP 1 FRAME, OPEN LID	60223700	646.15 (RIM) 640.95 W (INV) 639.28 N (INV) 639.18 S (INV)	23+38.47 35.27' RT (IL 68)
S34	PRC FES, 30"	54213675	639.15	23+31.08 53.74' RT (IL 68)
S42	OUTFALL THRU RETAINING WALL	NA	641.10	20+54.68 39.58 RT
S43	INLET, TYP A, TYP 12 F & G	60236900	645.50 (RIM) 642.85 E (INV)	20+54.58 **26' RT (IL 68)
S44	OUTFALL THRU RETAINING WALL	NA	641.10	21+31.10 39.58' RT (IL 68)
S45	INLET, TYP A, TYP 12 F & G	60236900	645.50 (RIM) 642.80 (INV)	21+31.10 **26' RT (IL 68)
S51	FLAP GATE 24"	60801024	638.90	206+12.74 35.65' RT (SHERMER)
STORAGE CHAMBER	FRAMES AND LIDS, TYP 1 OPEN LID	60406000		206+36.56 42.78' RT (SHERMER)
STORAGE CHAMBER	FRAMES AND LIDS, TYP 1 OPEN LID	60406000		206+86.78 30.22' RT (SHERMER)

MODEL NAME - Default  
FILE NAME - F:\31296 - L 60-DRAWINGS\CADD\Sheet\0150-01-Draft\Design



USER NAME = jandrews	DESIGNED - CN	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 2.0000" / 1"	CHECKED - MMO	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

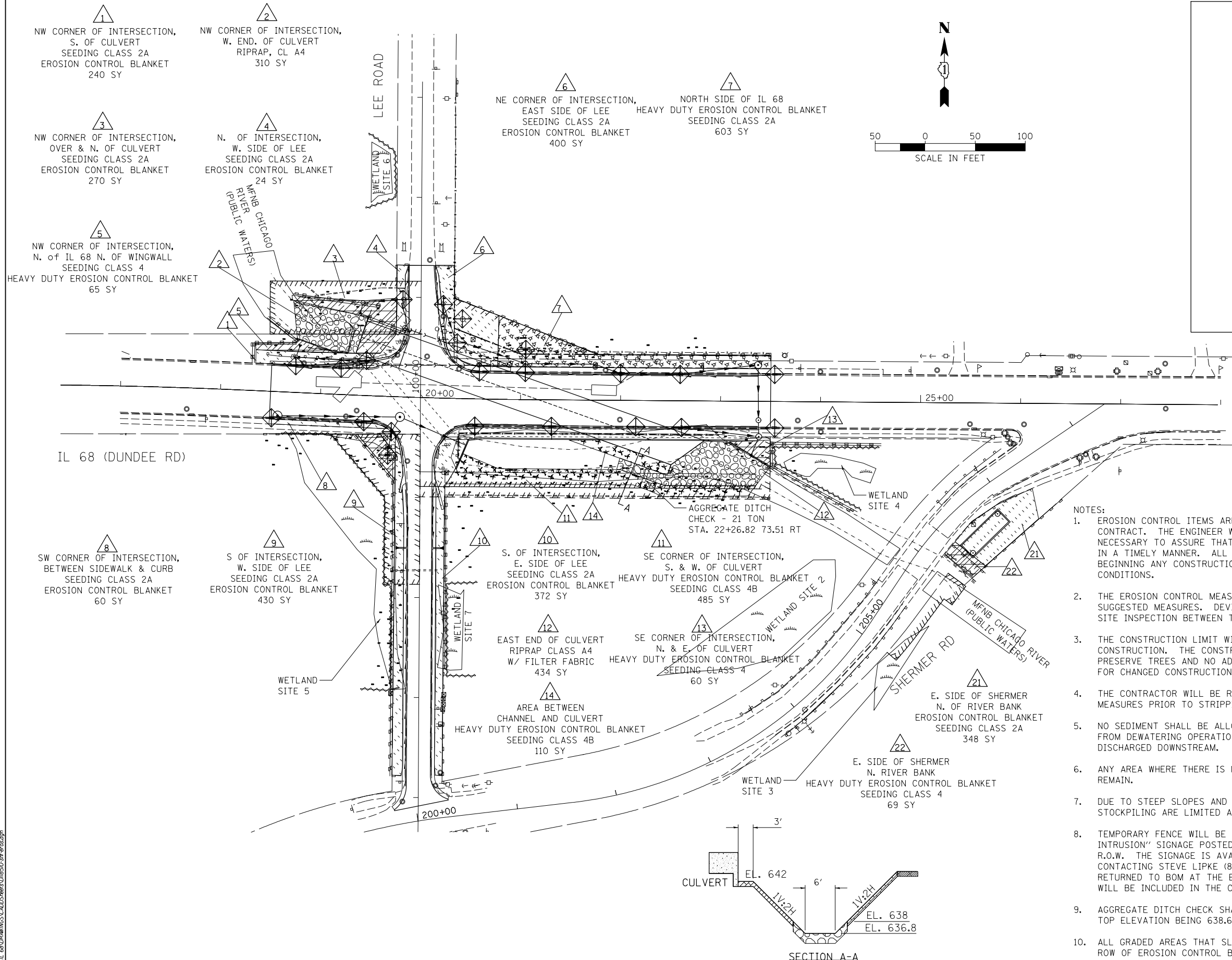
**DRAINAGE AND UTILITIES  
SCHEDULES**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	68
CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	



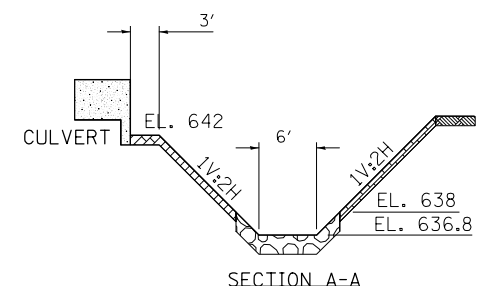




**LEGEND**

- EROSION CONTROL BLANKET SEEDING CLASS 2A
- HEAVY DUTY EROSION CONTROL BLANKET SEEDING CLASS 4
- HEAVY DUTY EROSION CONTROL BLANKET SEEDING CLASS 4B
- HEAVY DUTY EROSION CONTROL BLANKET SEEDING, CLASS 2A
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY FENCE
- TEMPORARY FENCE - WETLAND EXCLUSION FENCING WITH SIGNAGE
- RIPRAP, CLASS A4 (WITH FILTER FABRIC)

- NOTES:**
1. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
  2. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
  3. THE CONSTRUCTION LIMIT WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
  4. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
  5. NO SEDIMENT SHALL BE ALLOWED TO FLOW DOWNSTREAM AT ANY TIME. ALL WATER FROM DEWATERING OPERATIONS SHALL BE FILTERED TO REMOVE SEDIMENT BEFORE IT IS DISCHARGED DOWNSTREAM.
  6. ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.
  7. DUE TO STEEP SLOPES AND LIMITED R.O.W., AREAS AVAILABLE FOR TOPSOIL STOCKPILING ARE LIMITED AND SUBJECT TO APPROVAL OF THE ENGINEER.
  8. TEMPORARY FENCE WILL BE USED AS WETLAND EXCLUSION FENCING AND "WETLAND NO INTRUSION" SIGNAGE POSTED AT THE BOUNDARY OF UN-IMPACTED WETLANDS WITHIN THE R.O.W. THE SIGNAGE IS AVAILABLE AT THE BUREAU OF MAINTENANCE (BOM) BY CONTACTING STEVE LIPKE (847-705-4173) TO ARRANGE PICK UP. SIGNS ARE TO BE RETURNED TO BOM AT THE END OF CONSTRUCTION. SIGN PICK UP, POSTING AND RETURN WILL BE INCLUDED IN THE COST OF TEMPORARY FENCE.
  9. AGGREGATE DITCH CHECK SHALL CONFORM TO STANDARD 280001 WITH THE LOW POINT TOP ELEVATION BEING 638.6 AND RESTING ON GRADE AT 636.8.
  10. ALL GRADED AREAS THAT SLOPE TOWARDS MFNB-CHICAGO RIVER SHALL HAVE A DOUBLE ROW OF EROSION CONTROL BARRIER.



MODEL NAME: D:\road\...  
 FILE NAME: F:\2256 IL 68\DRAWINGS\CADD\Sheet\01500-err.dwg

**BLOOM COMPANIES, LLC**  
 Infrastructure Division and Specialty  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 876-9500 Fax: (312) 876-9900

USER NAME = jandrews	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - JM	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	70
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES MAINTENANCE GUIDE:  
([HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)).
2. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
4. THE CONTRACTOR SHOULD PROVIDE TO THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
5. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
6. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
7. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
8. THIS PROJECT REQUIRES A U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK IN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK IN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK (WHICH INCLUDES WORK WITHIN WETLANDS). THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

MODEL NAME: D:\road  
 FILE NAME: F:\256 L 60\DRAWINGS\CADD\Sheet\01ESC.dwg



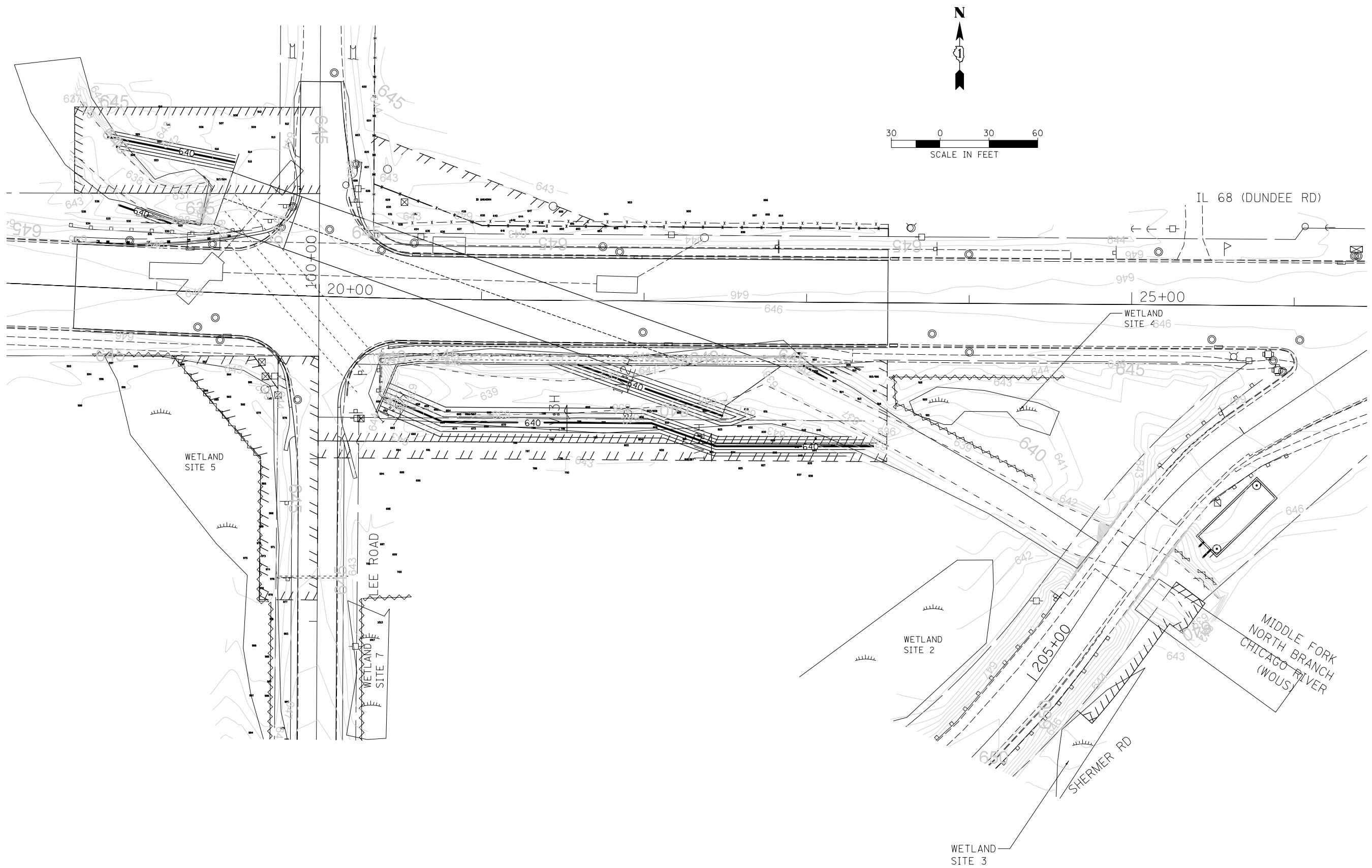
USER NAME = jandrews	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - JM	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	71
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



MODEL NAME: Default  
 FILE NAME: F:\256 L 60\DRAWINGS\CADD\Sheet\01850.dwg



USER NAME = jandrews	DESIGNED - MMO	REVISED -
	DRAWN - BL	REVISED -
PLOT SCALE = 60.0000' / in.	CHECKED - JM	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

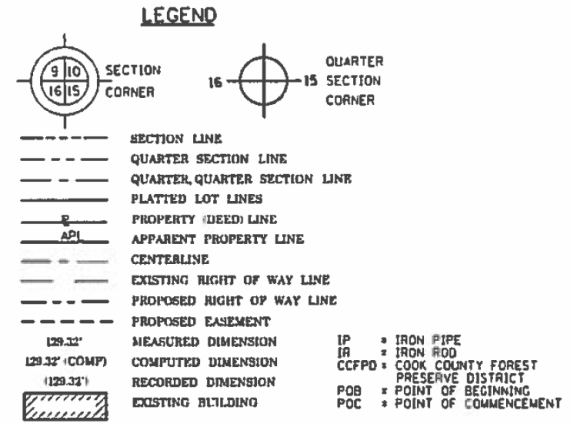
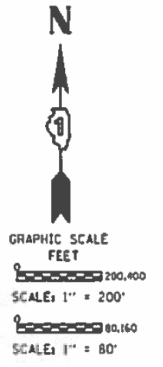
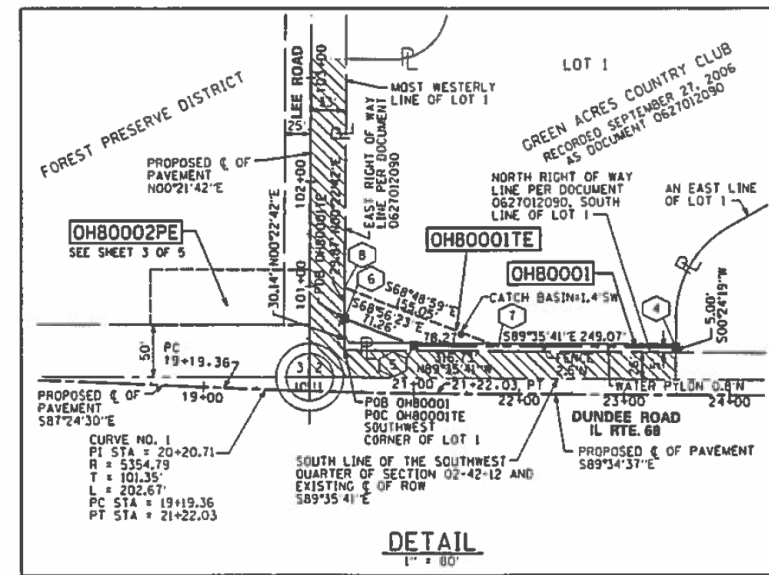
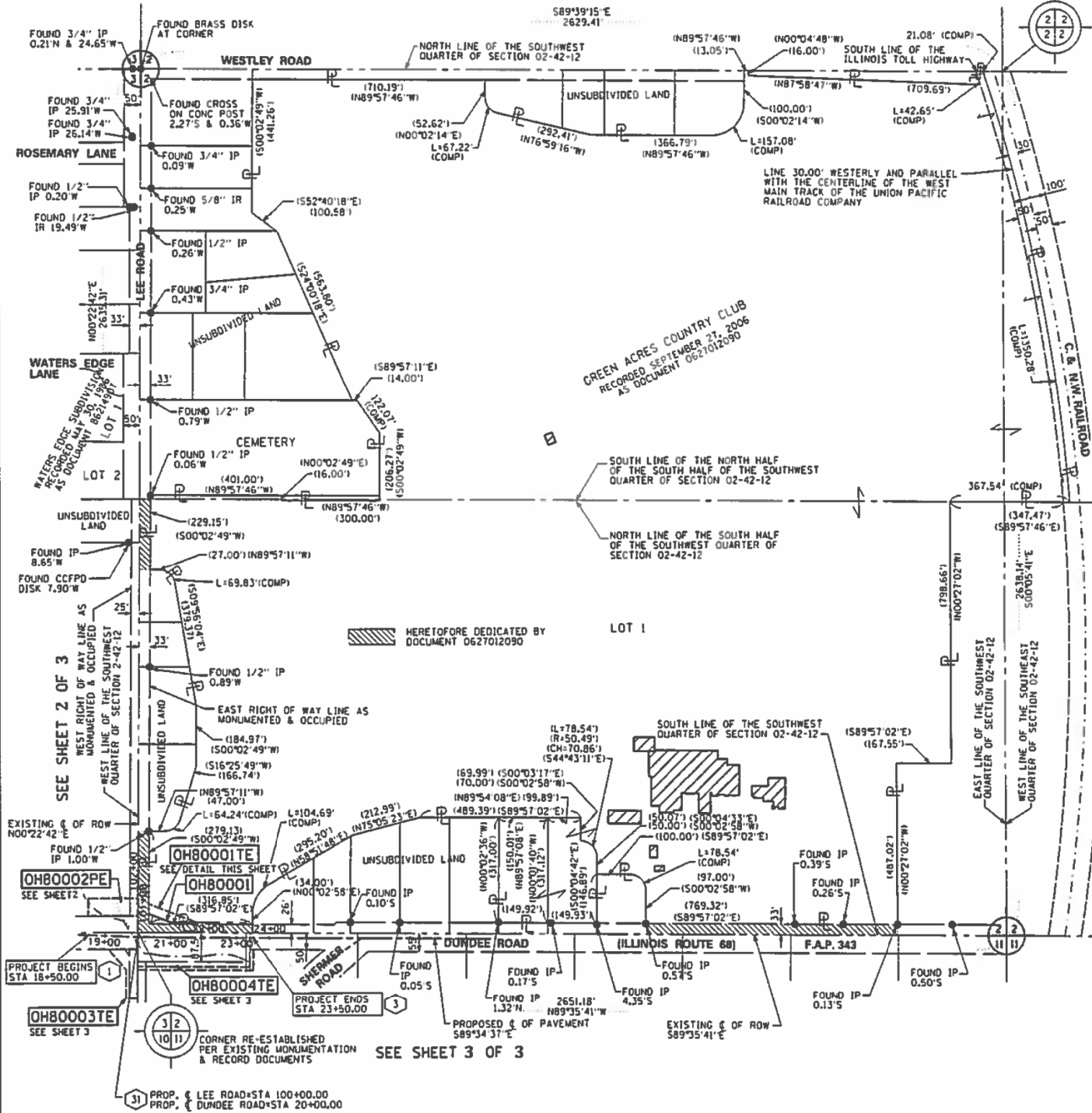
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MIDDLE FORK NORTH BRANCH CHICAGO RIVER**  
**AREA GRADING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	72
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

PART OF THE SOUTHWEST QUARTER OF SECTION 2 TWP. 42 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



STATE OF ILLINOIS )  
 COUNTY OF COOK )

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-00157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 2, 3, 10, & 11, TOWNSHIP 42 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS 23RD DAY OF MARCH, 2015 A.D., AT ROSEMONT, ILLINOIS.

*Rebecca Y. Popec*  
 REBECCA Y. POPEC  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

POINT	NORTHING	EASTING	STATION	OFFSET
1	1993349.72	1126218.17	18+50.00	0.00 LEFT
2	1993356.75	1126368.48	20+00.04	13.21 LEFT
3	1993339.57	1126718.01	23+50.00	0.00 RIGHT
4	1993385.28	1126717.41	23+49.06	45.71 LEFT
5	1993387.05	1126468.35	20+99.80	45.58 LEFT
6	1993412.65	1126401.85	20+32.13	70.00 LEFT
7	1993386.49	1126546.62	21+78.26	45.65 LEFT
8	1993442.52	1126402.05	20+31.59	99.86 LEFT
31	1993343.55	1126368.05	20+00.00	0.00 LEFT

SPACECO, INC. 9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018  
 Phone: (847) 696-4060 Fax: (847) 696-4065

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.P. 343 (ILLINOIS ROUTE 68)  
 SECTION: OVER MIDDLE FORK NORTH BRANCH  
 COUNTY: COOK  
 PROJECT: F.A.P. 343 (IL RTE 68) JOB NO.: R-90-007-07  
 STATION 18+50.00 TO STATION 23+50.00  
 SCALE: 1"=200' SHEET 1 OF 3

BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
OH80001	GREEN ACRES COUNTRY CLUB, AN ILLINOIS CORPORATION	+124.716	0.055	0.000	+124.661	0.072		TEMPORARY	04-02-300-046	
OH80001TE									04-02-301-007	

\*NOTE\* AREA OF CONTIGUOUS PROPERTY/TOTAL HOLDINGS WAS CALCULATED USING EXISTING PLATS AND RECORDS

REVISION DATE: 05/14/2012

REVISION: PROPOSED & ADDED

MADE BY: SDS

MODEL NAME: D:\road... FILE NAME: F:\21256... L:\GD\DRAWINGS\CADD\21256\0350-017-ROW\DWG



USER NAME: jandrews  
 DESIGNED: -  
 DRAWN: -  
 CHECKED: -  
 DATE: -  
 PLOT SCALE: 100.0000' / 1" / 1"  
 PLOT DATE: 8/23/2017

DESIGNED: -  
 DRAWN: -  
 CHECKED: -  
 DATE: -  
 REVISED: -  
 REVISED: -  
 REVISED: -  
 REVISED: -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. TO STA.

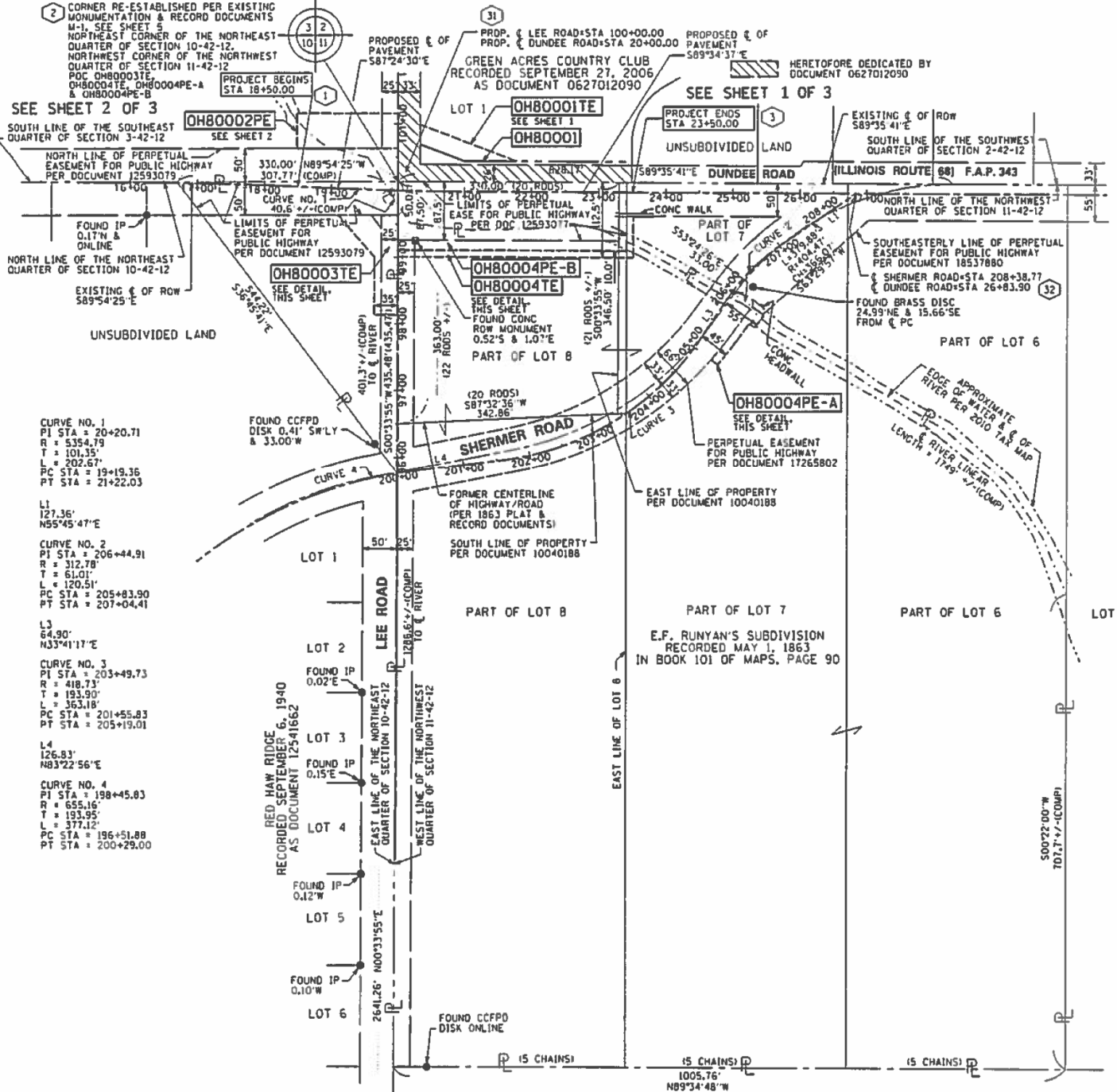
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30 T-1	COOK	140	73

CONTRACT NO. 60J13  
 ILLINOIS FED. AID PROJECT





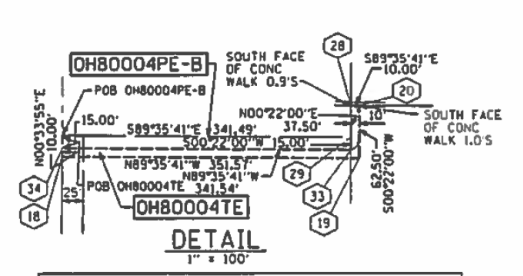
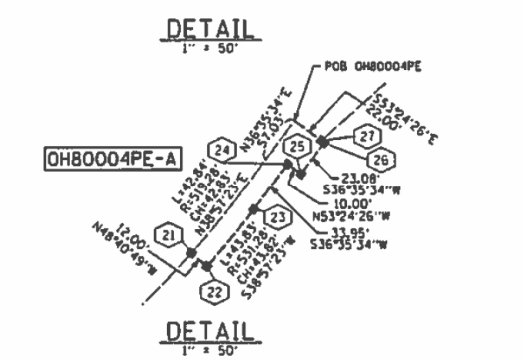
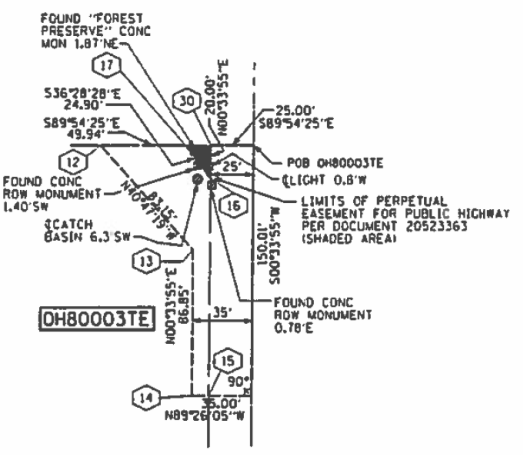
PART OF THE NORTHEAST QUARTER OF SECTION 10 AND PART OF THE NORTHWEST QUARTER OF SECTION 11 TWP. 42 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



PROJECT COORDINATE VALUES AND BEARINGS ARE GRID AND BASED ON ILLINOIS STATE PLANE, NAD83, EAST ZONE, REFERENCE ELLIPSOID, WGS 1984.

NOTES:  
 1. ALL STATIONING SHOWN HEREON ARE GRID DISTANCES IN FEET.  
 2. ALL OFFSETS ARE SHOWN HEREON ARE GRID DISTANCES IN FEET.  
 3. ANY DISCREPANCY IN MEASUREMENT DISCOVERED SHOULD BE PROMPTLY REPORTED TO THE SURVEYOR FOR EXPLANATION OR CORRECTION.  
 4. FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON, REFER TO YOUR ABSTRACT, DEEDS, CONTRACTS AND ZONING ORDINANCES

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. SQ. FT. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
OH80003TE	FOREST PRESERVE DISTRICT OF COOK COUNTY	1.641	0.000	N/A 0.000	1.641	0.157	TEMPORARY	04-10-200-060	
OH80004TE	FOREST PRESERVE DISTRICT OF COOK COUNTY	*25.460*	0.000	250 0.006	*25.460*	0.093	TEMPORARY	04-11-100-001	
OH80004PE-A				N/A 0.000		0.033	PERMANENT	04-11-100-003	
OH80004PE-B				375 0.009		0.118	PERMANENT		



POINT	NORTHING	EASTING	STATION	OFFSET
1	1993349.72	1126218.17	18+50.00	0.00 LEFT
2	1993356.75	1126368.48	20+00.04	13.21 LEFT
3	1993339.57	1126718.01	23+50.00	0.00 RIGHT
12	1993306.90	1126278.05	19+11.75	40.07 RIGHT
13	1993243.95	1126332.37	99+00.15	35.12 LEFT
14	1993157.11	1126331.51	98+13.30	35.48 LEFT
15	1993157.01	1126341.51	98+13.25	25.48 LEFT
16	1993286.80	1126342.79	19+76.72	57.53 RIGHT
17	1993306.82	1126327.99	19+61.34	38.05 RIGHT
18	1993244.26	1126367.37	20+02.28	99.26 RIGHT
19	1993241.77	1126718.93	23+51.65	97.79 RIGHT
20	1993304.27	1126719.33	23+51.58	35.29 RIGHT
21	1993088.78	1126834.59	205+00.18	30.80 RIGHT
22	1993080.86	1126843.61	204+99.22	42.75 RIGHT
23	1993114.93	1126871.16	205+40.84	46.26 RIGHT
24	1993142.19	1126891.39	205+74.75	47.98 RIGHT
25	1993136.23	1126899.42	205+74.24	57.97 RIGHT
26	1993154.76	1126913.18	206+00.40	58.78 RIGHT
27	1993155.95	1126911.58	206+00.39	56.78 RIGHT
28	1993304.34	1126709.33	23+41.58	35.29 RIGHT
29	1993266.84	1126709.09	23+41.62	72.79 RIGHT
30	1993306.80	1126342.99	19+76.23	37.54 RIGHT
31	1993343.55	1126368.05	20+00.00	0.00 LEFT
32	1993337.10	1127051.91	26+83.90	0.00 RIGHT
33	1993251.84	1126709.00	23+41.64	87.79 RIGHT
34	1993254.26	1126367.47	20+02.09	89.27 RIGHT

**LEGEND**

SECTION CORNER 16 SECTION CORNER 15

SECTION LINE  
 QUARTER SECTION LINE  
 QUARTER QUARTER SECTION LINE  
 PLATTED LOT LINES  
 PROPERTY (DEED) LINE  
 APPARENT PROPERTY LINE  
 CENTERLINE  
 EXISTING RIGHT OF WAY LINE  
 PROPOSED RIGHT OF WAY LINE  
 PROPOSED EASEMENT  
 MEASURED DIMENSION  
 COMPUTED DIMENSION  
 RECORDED DIMENSION  
 EXISTING BUILDING

GRAPHIC SCALE  
 FEET  
 SCALE: 1" = 100'

IP = IRON PIPE  
 IR = IRON ROD  
 CCFPD = COOK COUNTY FOREST PRESERVE DISTRICT  
 POB = POINT OF BEGINNING  
 POC = POINT OF COMMENCEMENT

Bearings are referenced to the Illinois State Plane Coordinate Grid System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

IRON PIPE OR ROD FOUND ○ REPLACED AFTER CONSTRUCTION  
 CUT CROSS FOUND OR SET

T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
 T2  
 T3

BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
 BT2  
 BT3

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS 155  
 COUNTY OF COOK 155

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-00157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 2, 3, 10, & 11, TOWNSHIP 42 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS 23RD DAY OF MARCH, 2015 A.D., AT ROSEMONT, ILLINOIS.

*Rebecca Y. Popeck*

REBECCA Y. POPECK  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

**SPACECO, INC.**

CONSULTING ENGINEERS  
 SITE DEVELOPMENT ENGINEERS  
 LAND SURVEYORS

9575 W. Higgins Road, Suite 700  
 Rosemont, Illinois 60018  
 Phone: (847) 696-8060 Fax: (847) 696-0065

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.P. 343 (ILLINOIS ROUTE 68)  
 SECTION: OVER MIDDLE FORK NORTH BRANCH  
 COUNTY: COOK  
 PROJECT: F.A.P. 343 (IL RTE 68) JOB NO.: R-90-007-07  
 STATION 18+50.00 TO STATION 23+50.00  
 SCALE: 1"=100' SHEET 3 OF 3

BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAMBURG, ILLINOIS 60196

MADE BY: RYP  
 MADE BY: RYP  
 MADE BY: SOS

F.A.P. 343 (ILLINOIS ROUTE 68) SECTION: OVER MIDDLE FORK NORTH BRANCH COOK COUNTY JOB NO.: R-90-007-07 RECORDING: RECORDED ON

USER NAME	DESIGNED	REVISION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
jandrews	-	-	343	30 T-1	COOK	140	75
							CONTRACT NO. 60J13
							ILLINOIS FED. AID PROJECT

**BLOOM COMPANIES, LLC**  
 Infrastructure Division and Integrity

600 W. Fulton Street, Suite 701 • Chicago, IL 60601  
 Phone: (312) 876-9500 Fax: (312) 876-9800

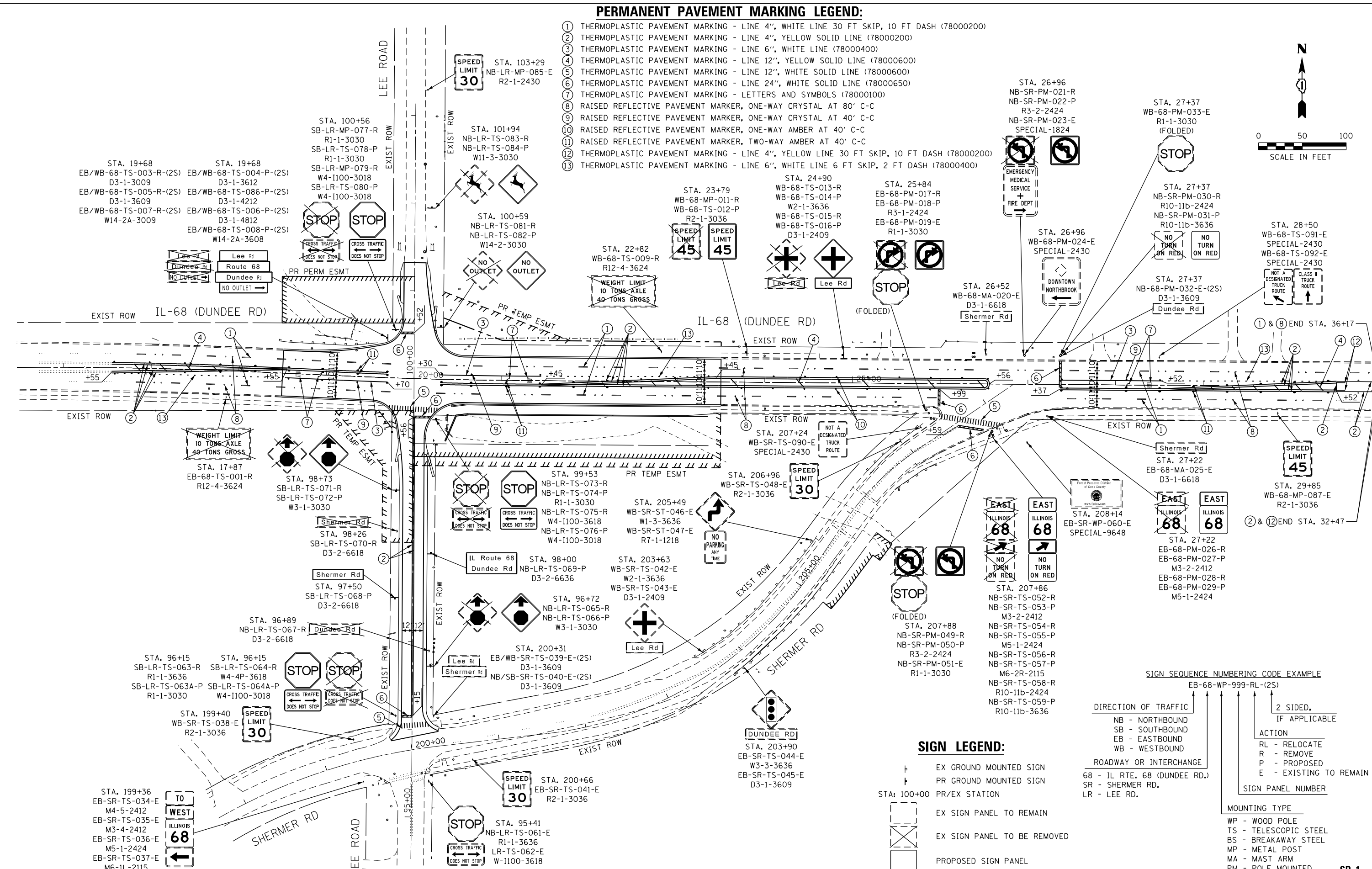
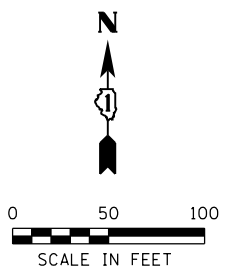
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. TO STA.

**PERMANENT PAVEMENT MARKING LEGEND:**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE LINE 30 FT SKIP, 10 FT DASH (78000200)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW SOLID LINE (78000200)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE LINE (78000400)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW SOLID LINE (78000600)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE SOLID LINE (78000600)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE SOLID LINE (78000650)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100)
- ⑧ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL AT 80' C-C
- ⑨ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL AT 40' C-C
- ⑩ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER AT 40' C-C
- ⑪ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER AT 40' C-C
- ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW LINE 30 FT SKIP, 10 FT DASH (78000200)
- ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE LINE 6 FT SKIP, 2 FT DASH (78000400)



**SIGN LEGEND:**

- ⊥ EX GROUND MOUNTED SIGN
- ⊥ PR GROUND MOUNTED SIGN
- ⊥ STA: 100+00 PR/EX STATION
- EX SIGN PANEL TO REMAIN
- EX SIGN PANEL TO BE REMOVED
- PROPOSED SIGN PANEL

**SIGN SEQUENCE NUMBERING CODE EXAMPLE**

DIRECTION OF TRAFFIC	2 SIDED, IF APPLICABLE
NB - NORTHBOUND	
SB - SOUTHBOUND	
EB - EASTBOUND	
WB - WESTBOUND	
ROADWAY OR INTERCHANGE	
68 - IL RTE. 68 (DUNDEE RD.)	
SR - SHERMER RD.	
LR - LEE RD.	
ACTION	
RL - RELOCATE	
R - REMOVE	
P - PROPOSED	
E - EXISTING TO REMAIN	
SIGN PANEL NUMBER	
EXAMPLE	EB-68-WP-999-RL-(2S)

**MOUNTING TYPE**

- WP - WOOD POLE
- TS - TELESCOPIC STEEL
- BS - BREAKAWAY STEEL
- MP - METAL POST
- MA - MAST ARM
- PM - POLE MOUNTED

**SP-1**

FILE NAME :	USER NAME : _USERNAME_	DESIGNED -	REVISED -
pw:\PW\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\0118110-SGNPMK-1.dgn		REVISED -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -	REVISED -
PLOT DATE = 8/22/2017	DATE -	REVISED -	REVISED -

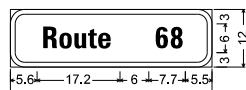
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLANS  
IL ROUTE 68 OVER MF NB CHICAGO**

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

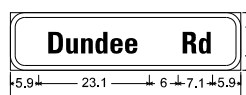
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	76
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				





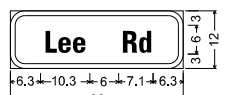
2.25" Radius, 1.0" Border, White on Green;  
"Route 68" C 2K;

**STA. 19 + 68 (68)**  
**NB/SB-68-TS-086-P-(2S)**



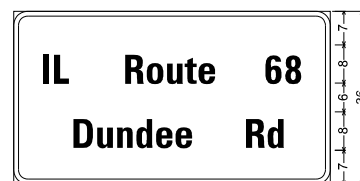
2.25" Radius, 1.0" Border, White on Green;  
"Dundee Rd" C 2K;

**STA. 19 + 68 (68)**  
**NB/SB-68-TS-006-P-(2S)**



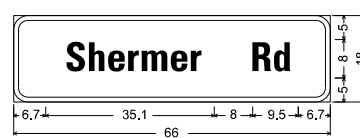
2.25" Radius, 1.0" Border, White on Green;  
"Lee Rd" C 2K;

**STA. 19 + 68 (68)**  
**EB/WB-68-TS-004-P-(2S)**



2.25" Radius, 1.0" Border, White on Green;  
"IL Route 68" C 2K; "Dundee Rd" C 2K;

**STA. 98 + 00 (LR)**  
**NB-LR-TS-069-P**



2.25" Radius, 1.0" Border, White on Green;  
"Shermer Rd" C 2K;

**STA. 97 + 50 (LR)**  
**SB-LR-TS-068-P**

FILE NAME =	USER NAME = .USERNAME.	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN PANEL DETAILS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\PW\dlzcorp.com\DLZ\Documents\Projects\2011\1181\2053\Design\CAD\Sheet Files\011810-SGNdet.dgn			REVISED -		<b>IL ROUTE 68 OVER MF NB CHICAGO</b>				343	30T-1	COOK	140	77
*MODELNAME*	PLOT SCALE = *SCALE*	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 60J13				
	PLOT DATE = 8/22/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

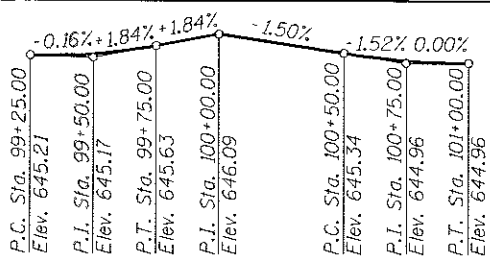
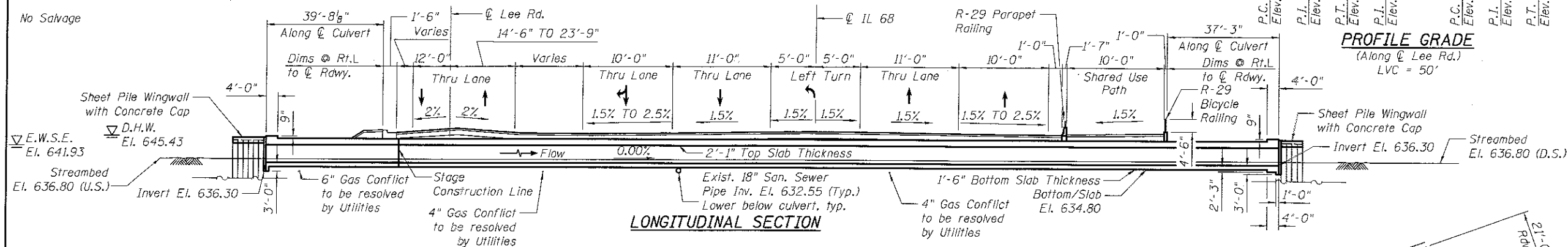
**Benchmark:**

Square cut in the top of the northwest corner of the headwall in the southeast quadrant of the intersection of IL Rte 68 and Lee Rd. Elev. 646.61

**Existing Structure:**

S.N.016-0813, built in 1938. Existing Structure is a double 8'x11.5' reinforced concrete box culvert which is to be removed and replaced with a new concrete box structure. The east leg of IL 68 and the north leg Lee Rd. will be successively closed to traffic.

**No Salvage**



**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (Sheet Piling)

**LOADING HL-93**

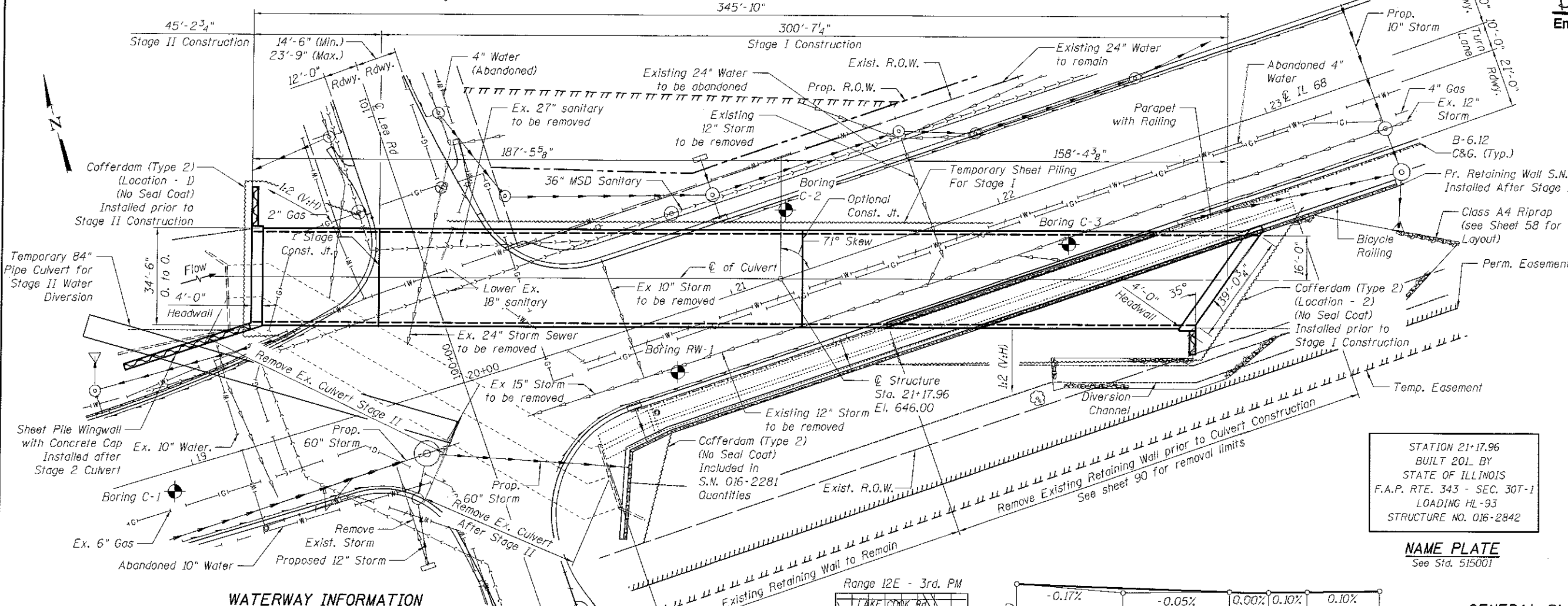
Allow 50#/sq. ft. for future wearing surface

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

**APPROVED**  
For Structural Adequacy Only

*D. Carl Perry*  
Engineer of Bridges & Structures



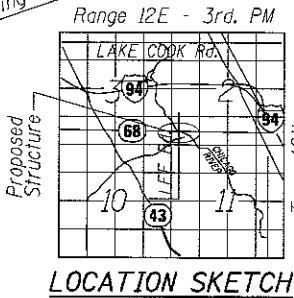
**WATERWAY INFORMATION**

Drainage Area = 13785.6 acres  
21.5400 sq.mi.

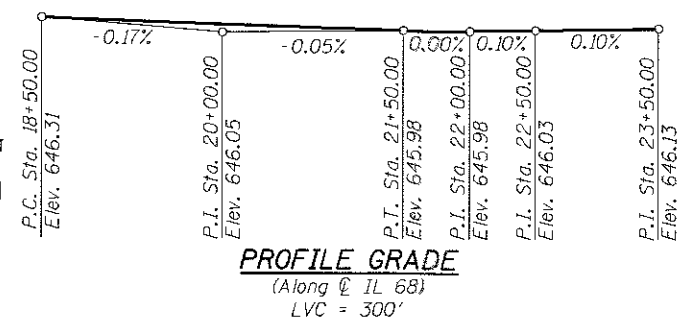
Existing Overtopping Elev. 645.87 @ Sta. 20+50  
Proposed Overtopping Elev. 645.98 @ Sta. 21+50

Flood	Freq. Yr.	Discharge C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Created Head (Ft.)		Headwater Elev.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	2	275.00	157.1	176.0	643.85	0.00	0.00	643.85	643.80
	10	449.00	157.1	176.0	644.51	0.13	0.06	644.64	644.57
Design (Overtopping)	50	734.00	157.1	176.0	645.43	0.17	0.14	645.60	645.57
Base	100	870.00	157.1	176.0	645.77	0.08	0.06	645.85	645.83
Max. Calc.	500	1473.00	157.1	176.0	646.88	0.00	0.00	646.88	646.88

**PLAN**



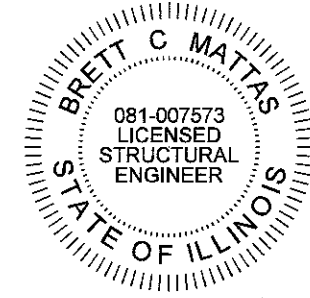
**PROFILE GRADE**



STATION 21+17.96  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. RTE. 343 - SEC. 30T-1  
LOADING HL-93  
STRUCTURE NO. 016-2842

**NAME PLATE**

See Std. 515001



DATE 12/30/2015  
EXPIRES 11/30/2018

**GENERAL PLAN & ELEVATION**  
**IL 68 (DUNDEE ROAD) OVER**  
**MIDDLE FORK NORTH BRANCH CHICAGO RIVER**  
**F.A.P. RTE. 343 - SEC 30T-1**  
**COOK COUNTY**  
**STATION 21+17.96**  
**STRUCTURE NO. 016-2842**



USER NAME = jand-gws	DESIGNED - BCM	REVISED
PLOT SCALE = N/A	CHECKED - BDT/TZ	REVISED
PLOT DATE = 8/23/2017	DRAWN - JA	REVISED
	CHECKED - 7/24/2015	REVISED

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

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 016-2842**

SHEET NO. 1 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	78
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

When the slab pour is stopped for the day at one or more of the transverse bonded construction joints in the slab pouring sequence as shown, the next pour shall not be made until both of the following are met:

- 1) At least 72 hours shall have elapsed from the end of the previous pours.
- 2) The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

Permanent sheet piling shall consist of steel sheet piling of the minimum section properties as shown on the plans. The contractor may use an equivalent steel sheet pile size at no additional cost to IDOT and without delaying the construction schedule so long as the equivalent sheet pile size meets the minimum effective section modulus and moment of inertia as noted below.

Permanent sheet piling section property requirements:

Minimum Sheet Pile Section Modulus = 17 in<sup>3</sup>/ft

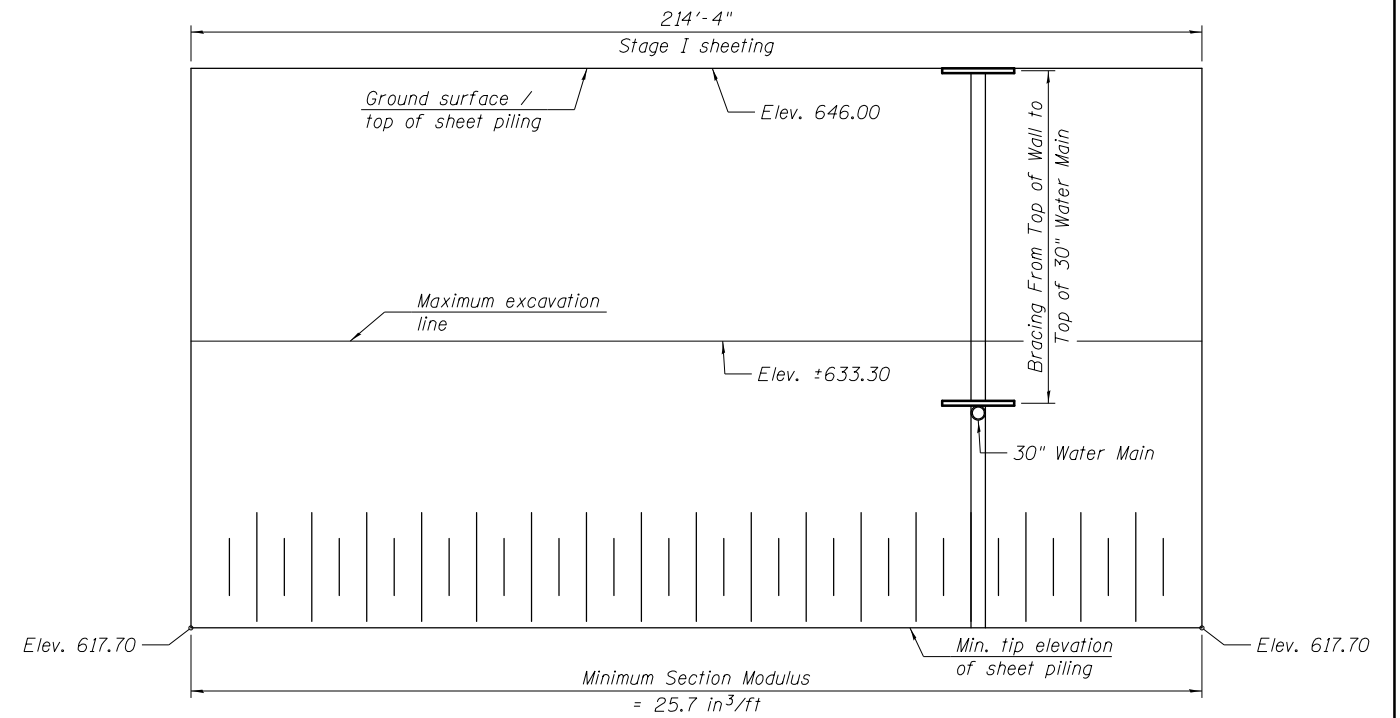
Minimum Moment of Inertia = 173 in<sup>4</sup>/ft

Wingwall dimensions based on MSZ 15-312 sheet piling. If the contractor uses a different sheet pile section, wingwall dimensions and reinforcement must change as required to maintain minimum clearance. Modifications must be approved by the engineer and must be provided at no additional cost to IDOT and without delaying the construction schedule.

See sheets 100-104 for boring logs.

**INDEX OF SHEETS**

- 1 General Plan & Elevation
- 2 General Notes, Index of Sheets & Total Bill of Materials
- 3 Top Slab Plan
- 4 Bottom Slab Plan & Wall Elevations
- 5 West End Wingwalls
- 6 East End Wingwalls & Bill of Bars
- 7 Railing Plan & Elevation
- 8 Railing Details

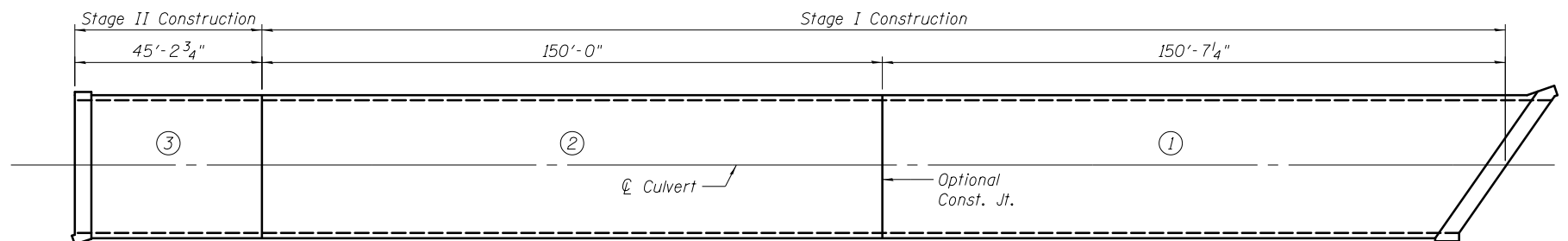


**TEMPORARY SHEET PILING**

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

**TOTAL BILL OF MATERIALS**

ITEM	UNIT	TOTAL
Removal Of Existing Structures	Each	1
Concrete Removal	Cu Yd	145.8
Structure Excavation	Cu Yd	3378
Cofferdam Excavation	Cu Yd	1287
Cofferdam (Type 2) (Location - 1)	Each	1
Cofferdam (Type 2) (Location - 2)	Each	1
Concrete Structures	Cu Yd	39.3
Protective Coat	Sq Yd	49
Reinforcement Bars, Epoxy Coated	Pound	313,810
Bicycle Railing	Foot	107
Parapet Railing	Foot	106
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	1,800.9
Pipe Culverts, Class D, Type 1 84" (Temporary)	Foot	140
Permanent Sheet Piling	Sq Ft	2119
Granular Culvert Backfill	Cu Yd	221
Temporary Sheet Piling	Sq Ft	6066



**SLAB POURING SEQUENCE**

Applies to Top Slab, Bottom Slab, & Walls

FILENAME = F:\3-1296\_IL\_66\DRAWINGS\CADD\Sheets\0162842-60J13-002-Gnd.dgn

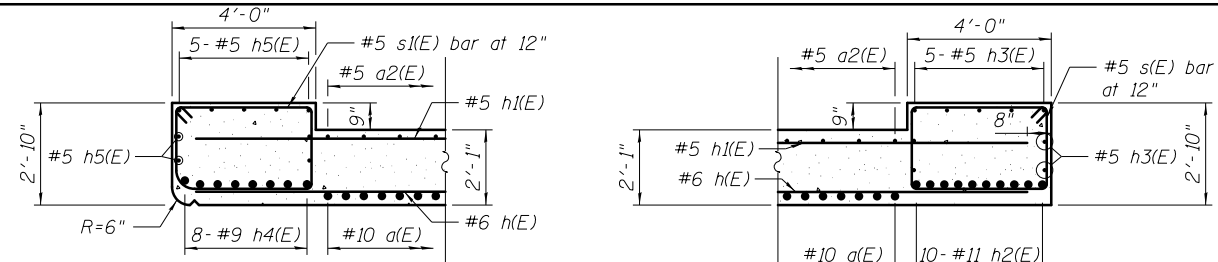


USER NAME = jandrews	DESIGNED - BCM	REVISED
PLOT SCALE = N/A	CHECKED - BDT/TZ	REVISED
PLOT DATE = 8/23/2017	DRAWN - JA	REVISED
	CHECKED - 7/24/2015	REVISED

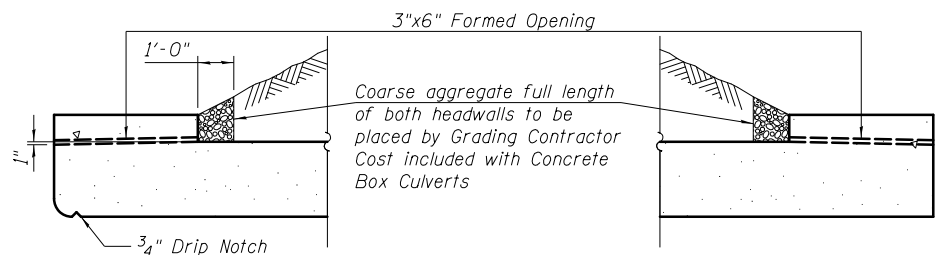
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIALS  
STRUCTURE NO. 016-2842**  
SHEET NO. 2 OF 8 SHEETS

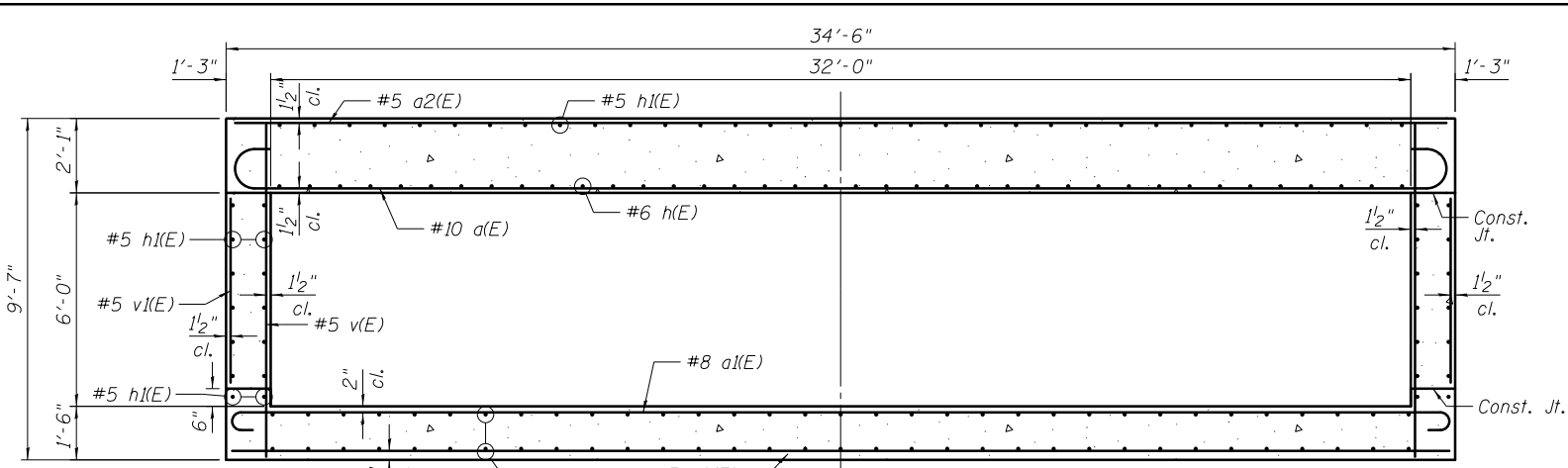
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	79
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



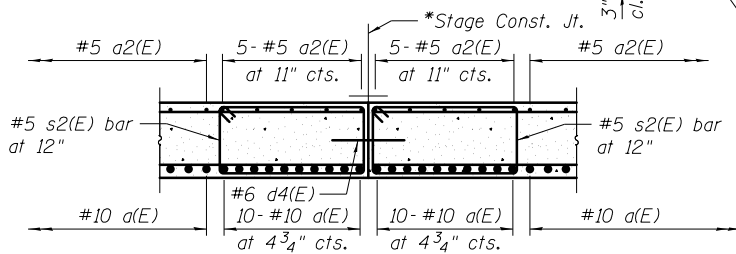
SECTION THRU WEST HEADWALL SECTION THRU EAST HEADWALL  
HEADWALL SECTION



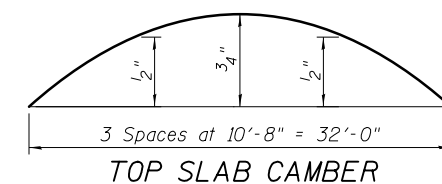
SECTION THRU WEST HEADWALL SECTION THRU EAST HEADWALL  
DRAIN DETAIL



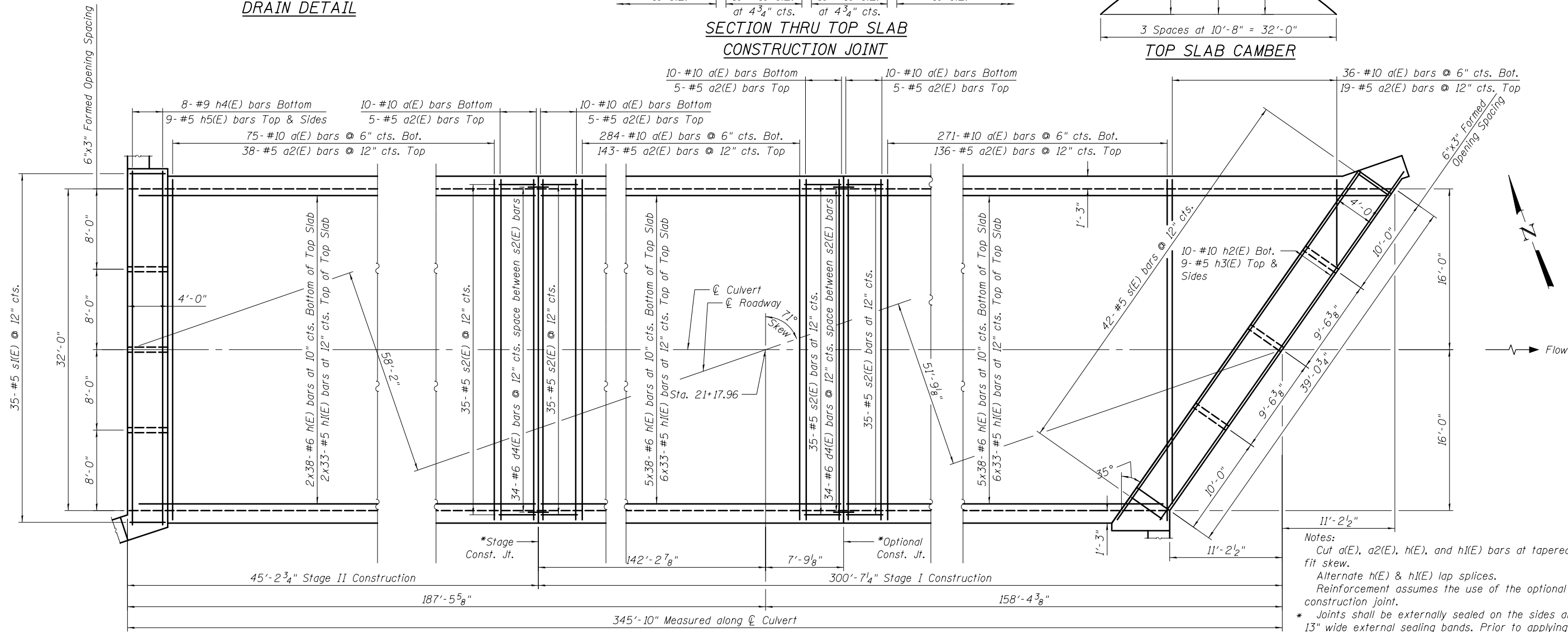
SECTION THRU BARREL



SECTION THRU TOP SLAB  
CONSTRUCTION JOINT



TOP SLAB CAMBER



PLAN TOP SLAB  
(Bicycle Railing and Parapet Railing not Shown for Clarity)

Notes:  
Cut a(E), a2(E), h(E), and h1(E) bars at tapered end to fit skew.  
Alternate h(E) & h1(E) lap splices.  
Reinforcement assumes the use of the optional construction joint.  
\* Joints shall be externally sealed on the sides and top using 13" wide external sealing bands. Prior to applying the sealing band, the concrete shall be cleaned to remove dirt or laitance and allowed to dry. The sealing band shall be centered over the joint, secured in place, and protected from damage during backfilling operation. Cost included in Concrete Box Culverts.

FILENAME: F:\13-1296\_IL\_S&P\DRAWINGS\CADD\Sheets\0162842-60J13-003-TopSlab.dgn



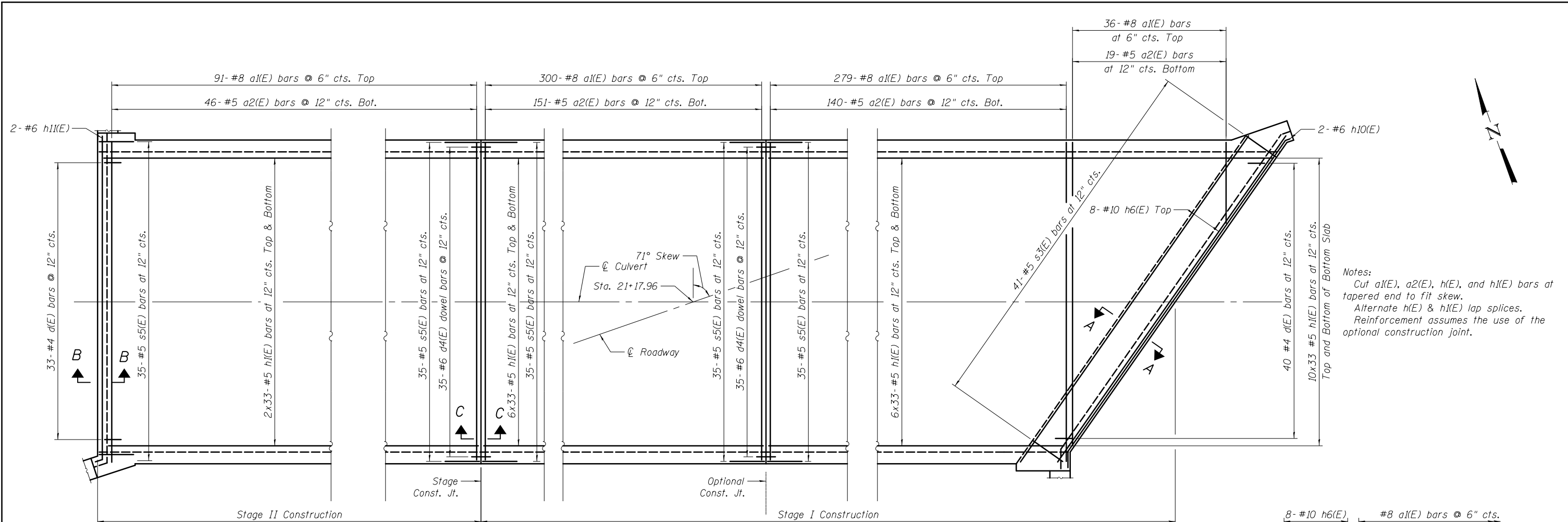
USER NAME = jandrews	DESIGNED - BCM	REVISED
PLOT SCALE = N/A	CHECKED - BDT/TZ	REVISED
PLOT DATE = 8/23/2017	DRAWN - BCM	REVISED
	CHECKED - 7/24/2015	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP SLAB PLAN  
STRUCTURE NO. 016-2842  
SHEET NO. 3 OF 8 SHEETS

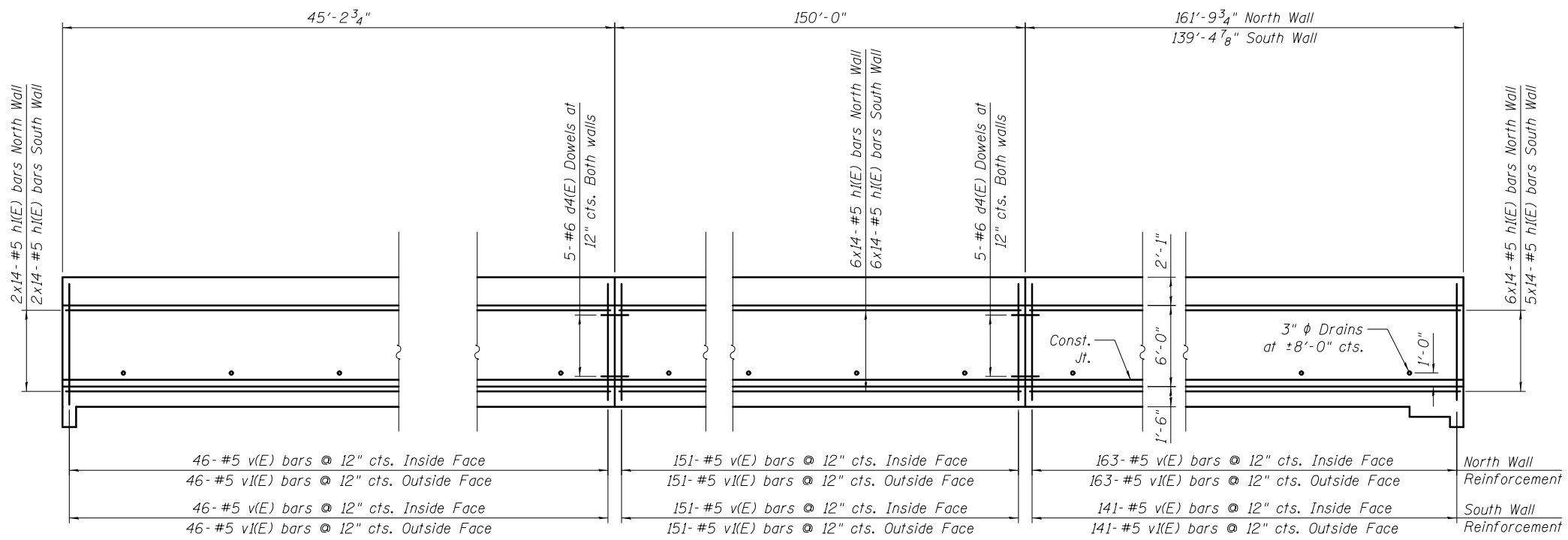
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	80
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT

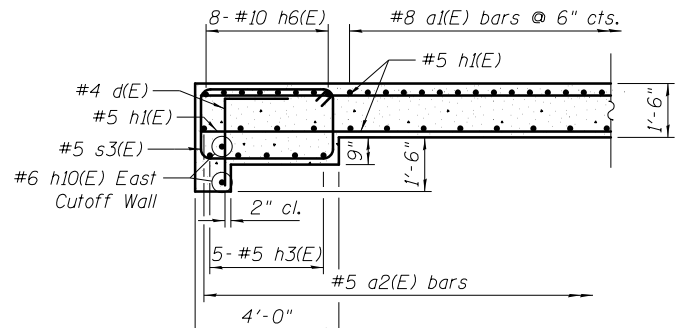


PLAN BOTTOM SLAB

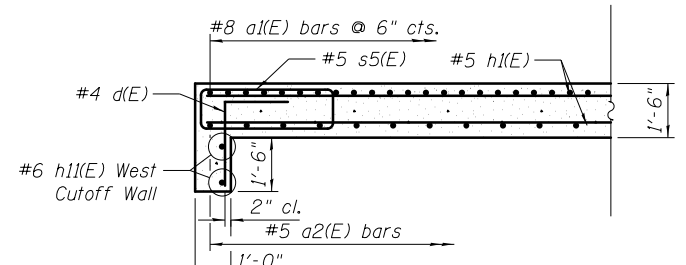
Notes:  
 Cut a1(E), a2(E), h(E), and h1(E) bars at tapered end to fit skew.  
 Alternate h(E) & h1(E) lap splices.  
 Reinforcement assumes the use of the optional construction joint.



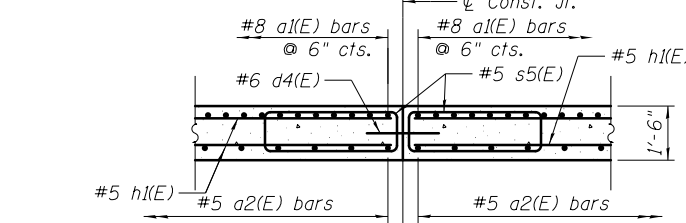
WALL ELEVATION  
 Looking North  
 (Dimensions measured along inside face of wall)



SECTION A-A



SECTION B-B



SECTION C-C

FILENAME = F:\13-1296\_IL\_66\DRAWINGS\CADD\Sheets\0162842-60J13-084-BottomSlab.dgn



USER NAME = jandrews	DESIGNED - BCM	REVISED
	CHECKED - BDT/TZ	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 8/23/2017	CHECKED - 7/24/2015	REVISED

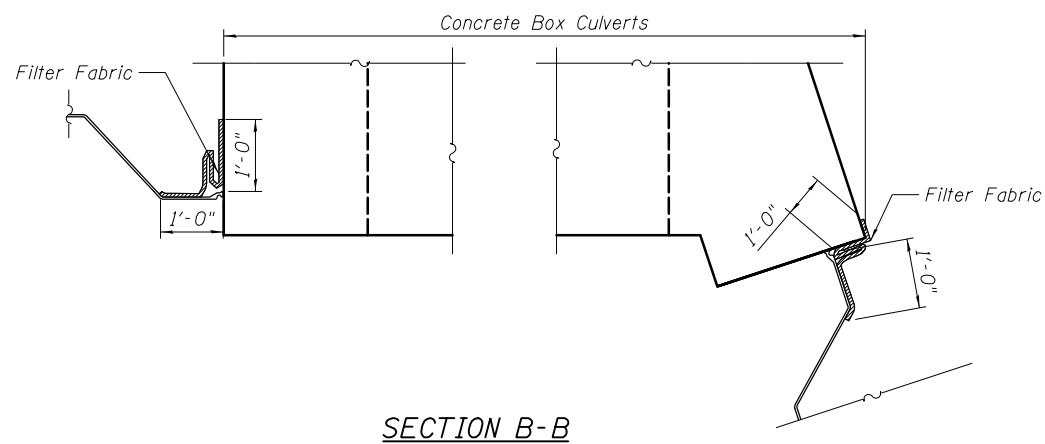
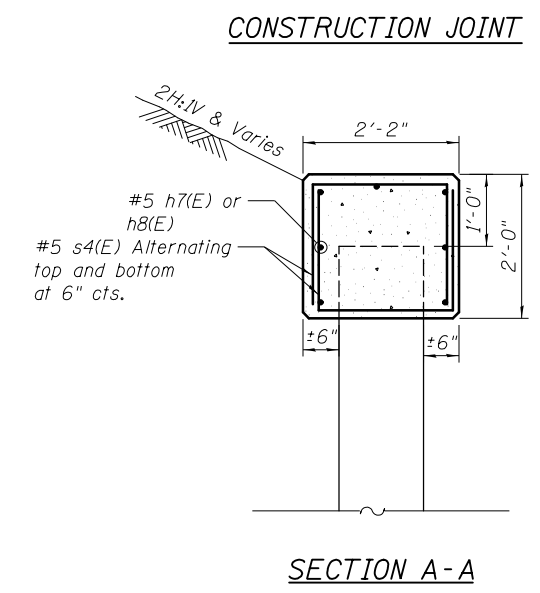
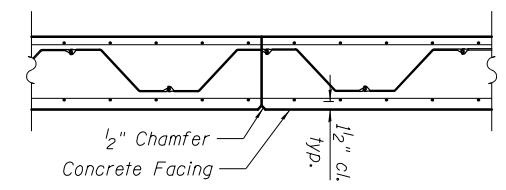
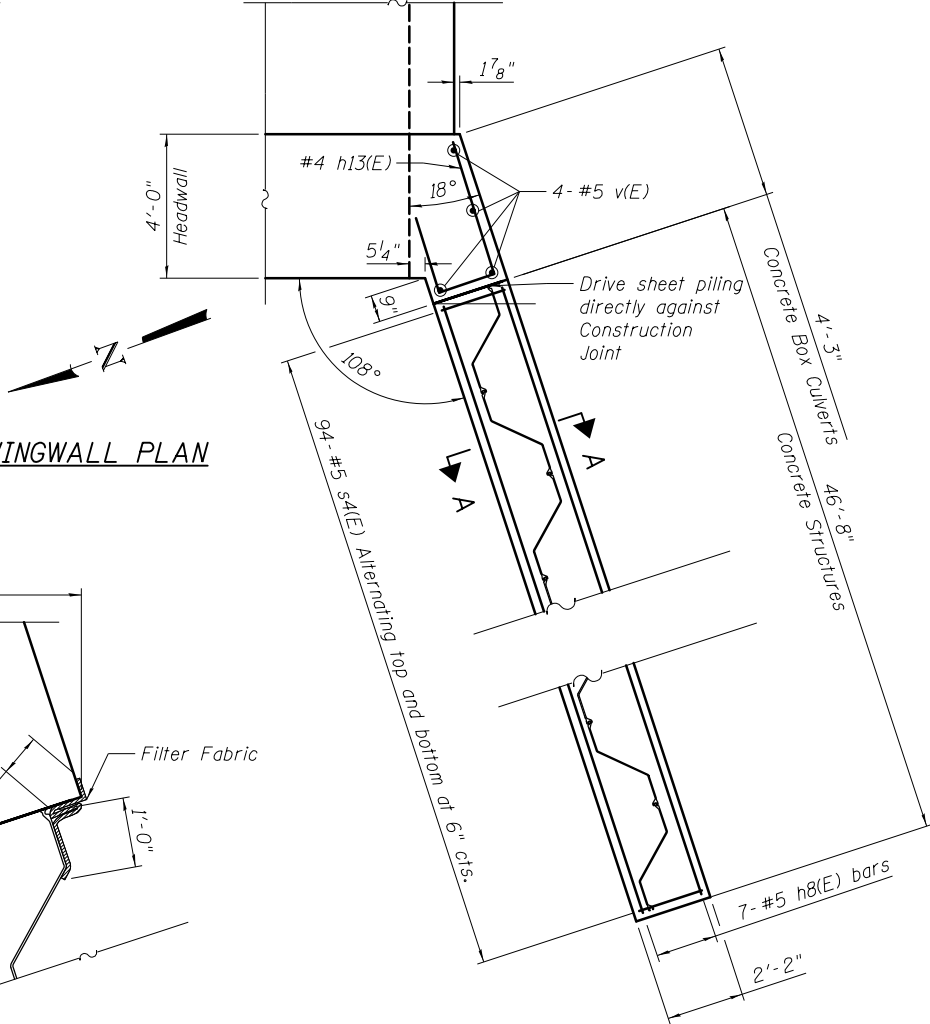
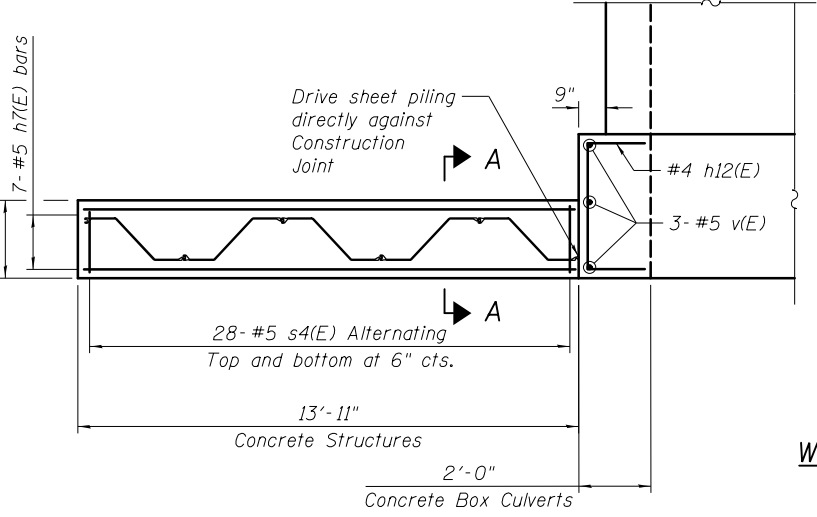
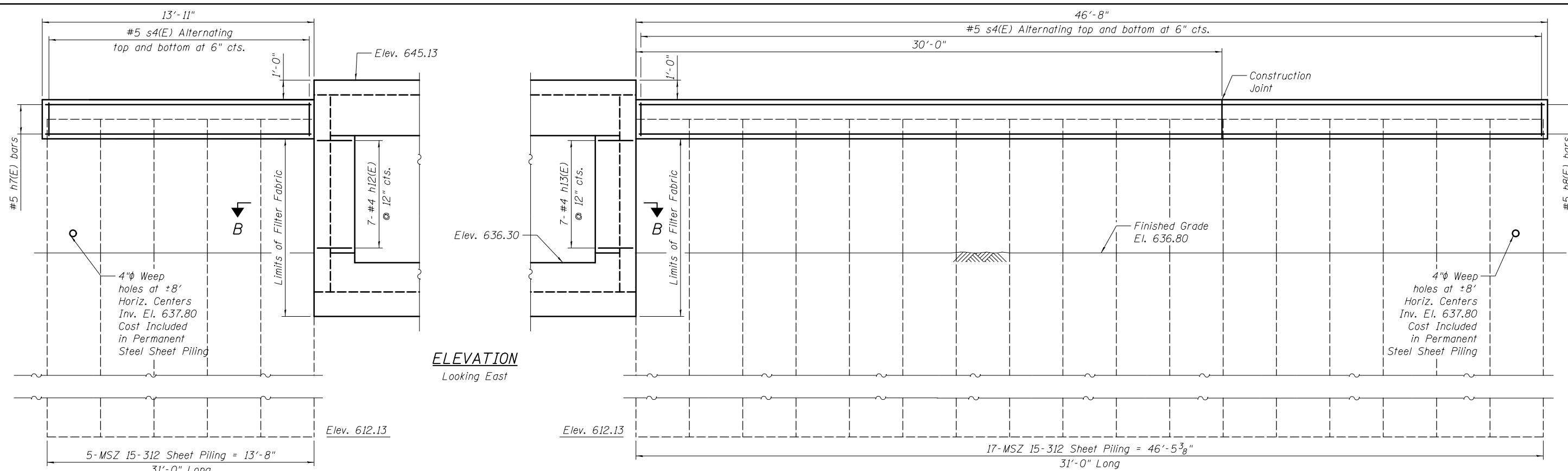
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BOTTOM SLAB PLAN & WALL ELEVATIONS  
 STRUCTURE NO. 016-2842

SHEET NO. 4 OF 8 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	81
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT



Note:  
Torch cut 2"φ hole in sheet piling for s4(E) bars.  
Cost included in Reinforcement Bars, Epoxy Coated.

FILENAME = F:\3-1296\_IL\_BSDRAWINGS\CADD\Sheets\0162842-60J13-005-WestWingwall.dgn

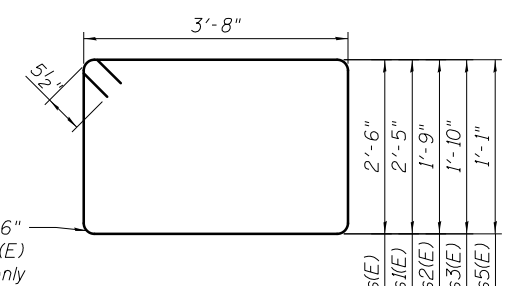
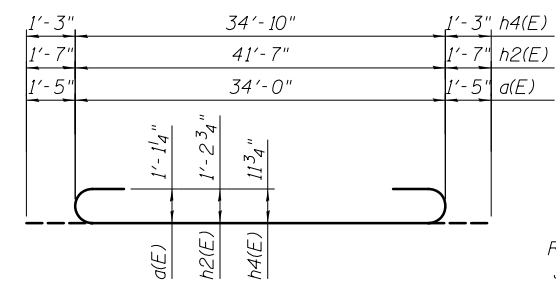
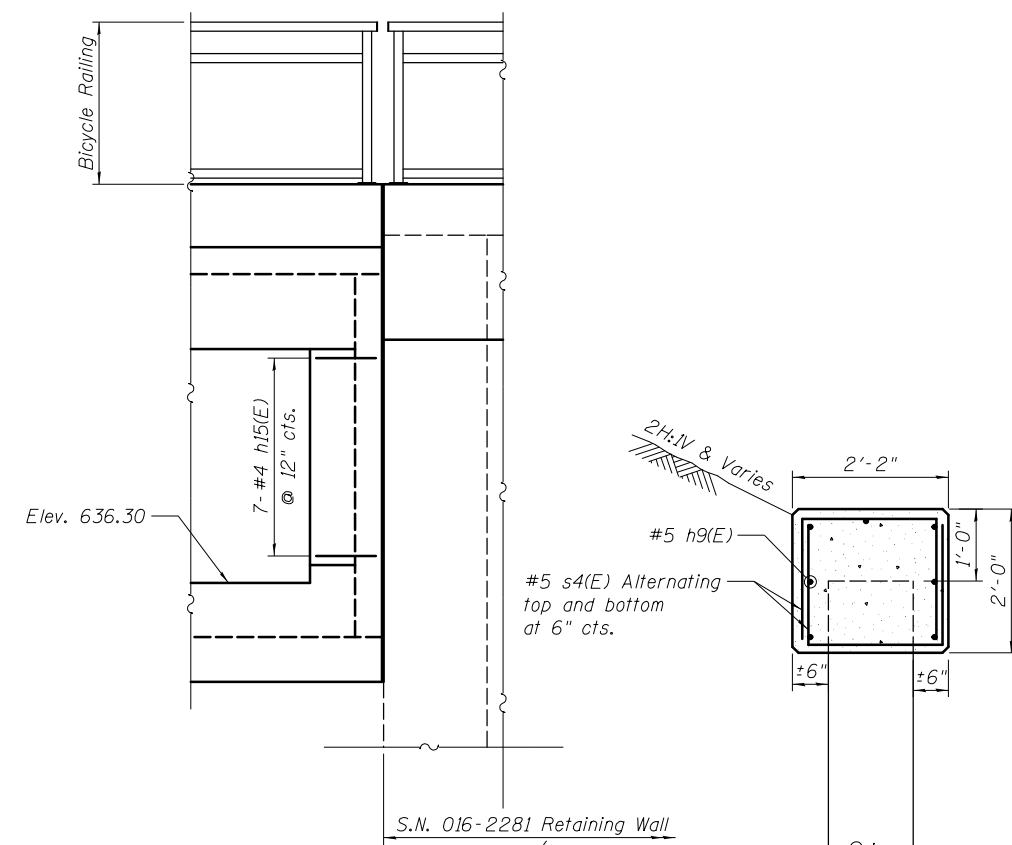
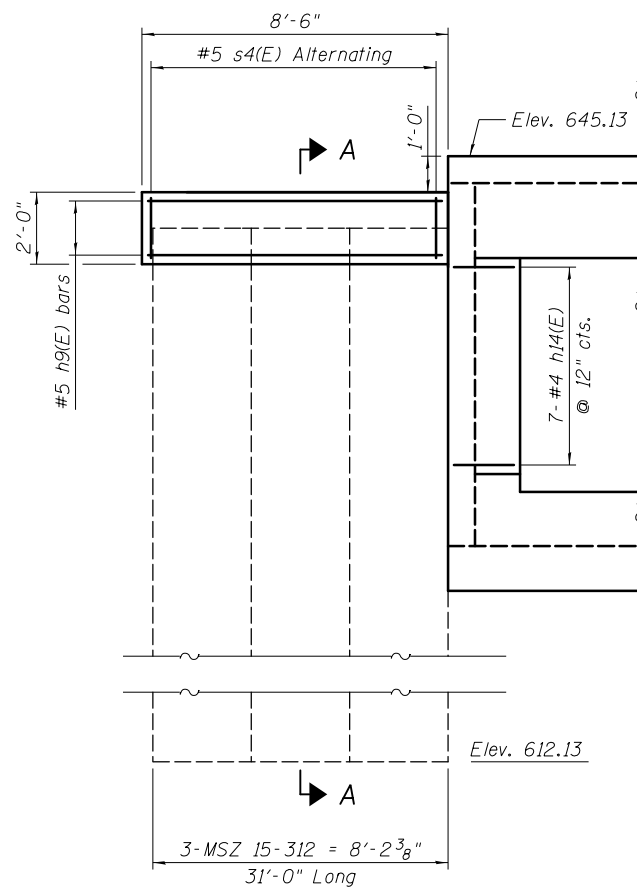


USER NAME = jandrews	DESIGNED - JA	REVISED
	CHECKED - BDT/TZ	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 8/23/2017	CHECKED - 7/24/2015	REVISED

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

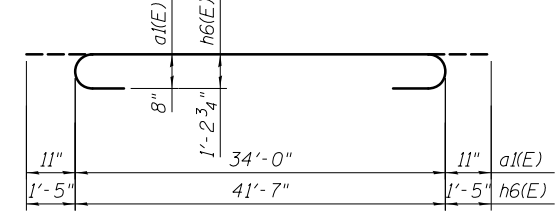
**WEST END WINGWALLS**  
**STRUCTURE NO. 016-2842**  
SHEET NO. 5 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	82
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				

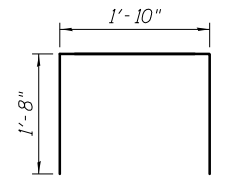


BAR d(E), h2(E), & h4(E)

BAR s(E), s1(E), s2(E), s3(E), & s5(E)



BAR d1(E) & h6(E)

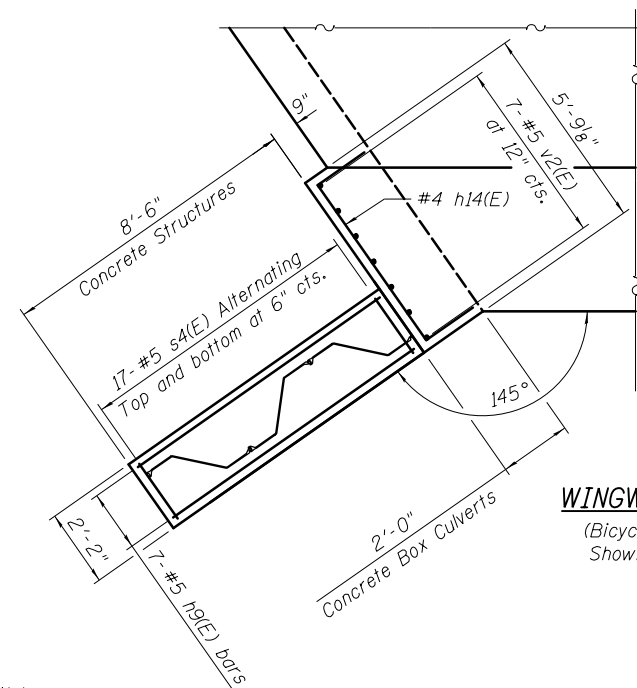


BAR s4(E)

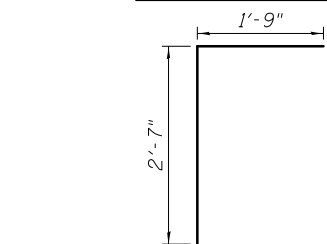
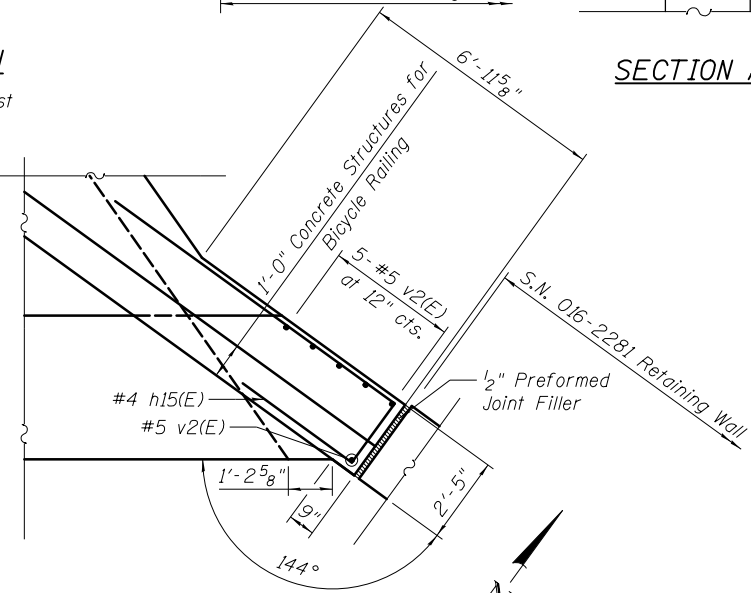
**MIN. BAR LAP**  
 #4 bar = 2'-11"  
 #5 bar = 2'-3"  
 #6 bar = 2'-5"  
 #8 bar = 7'-8"

**ELEVATION**  
Looking Northwest

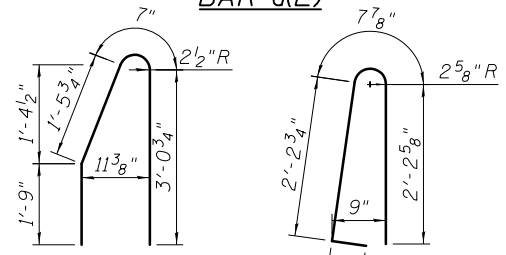
**SECTION A-A**



**WINGWALL PLAN**  
(Bicycle Railing not Shown for Clarity)

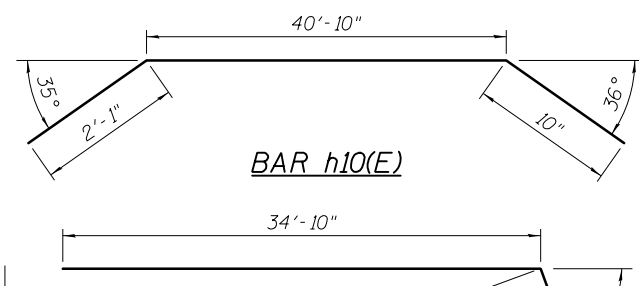


BAR d(E)



BAR d1(E)

BAR d2(E)



BAR h10(E)

BAR h11(E)

BAR d3(E)

1'-8" h12(E)	1'-8" h12(E)
1'-9" h13(E)	3'-8" h12(E)
1'-8" h14(E)	1'-8" h13(E)
3'-8" h15(E)	5'-5" h14(E)
	2'-1" h15(E)

BAR h12(E), h13(E), h14(E), h15(E)

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	706	#10	36'-10"	U
d1(E)	706	#8	36'-0"	U
d2(E)	712	#5	34'-2"	U
d(E)	73	#4	4'-4"	U
d1(E)	112	#6	6'-11"	U
d2(E)	112	#5	5'-7"	U
d3(E)	116	#5	6'-3"	U
d4(E)	158	#6	2'-0"	U
e(E)	48	#4	26'-9"	U
e1(E)	4	#8	29'-1"	U
e2(E)	36	#4	28'-5"	U
h(E)	456	#6	36'-0"	U
h1(E)	1764	#5	30'-0"	U
h2(E)	10	#11	44'-9"	U
h3(E)	14	#5	41'-9"	U
h4(E)	8	#9	37'-4"	U
h5(E)	9	#5	35'-0"	U
h6(E)	8	#10	44'-5"	U
h7(E)	7	#5	13'-7"	U
h8(E)	7	#5	46'-4"	U
h9(E)	7	#5	8'-2"	U
h10(E)	2	#6	43'-9"	U
h11(E)	2	#6	36'-0"	U
h12(E)	7	#4	7'-0"	U
h13(E)	7	#4	7'-3"	U
h14(E)	7	#4	8'-9"	U
h15(E)	7	#4	15'-4"	U
s(E)	42	#5	13'-3"	U
s1(E)	35	#5	13'-1"	U
s2(E)	140	#5	11'-9"	U
s3(E)	41	#5	11'-11"	U
s4(E)	139	#5	5'-2"	U
s5(E)	175	#5	10'-5"	U
v(E)	705	#5	9'-2"	U
v1(E)	698	#5	5'-8"	U
v2(E)	13	#5	10'-8"	U
Concrete Structures		Cu. Yd.	11.7	
Concrete Box Culverts		Cu. Yd.	1,800.9	
Reinforcement Bars, Epoxy Coated		Pound	313,810	

FILENAME: F:\3-1296\_IL\_BSDRAWINGS\CADD\Sheets\0162842-60J13-006-EastWingwall.dgn



USER NAME = jandrews  
 PLOT SCALE = N/A  
 PLOT DATE = 8/23/2017

DESIGNED - JA  
 CHECKED - BDT/TZ  
 DRAWN - JA  
 CHECKED - 7/24/2015

REVISED  
 REVISED  
 REVISED  
 REVISED

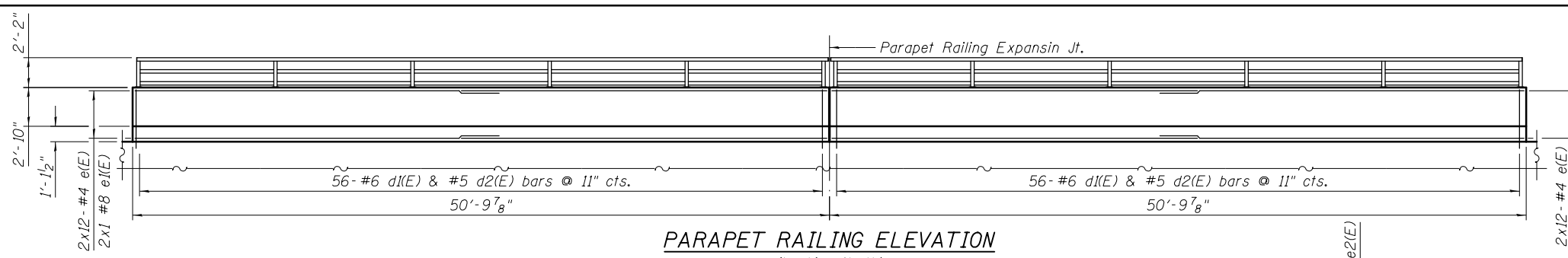
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EAST END WINGWALLS & BILL OF BARS  
 STRUCTURE NO. 016-2842

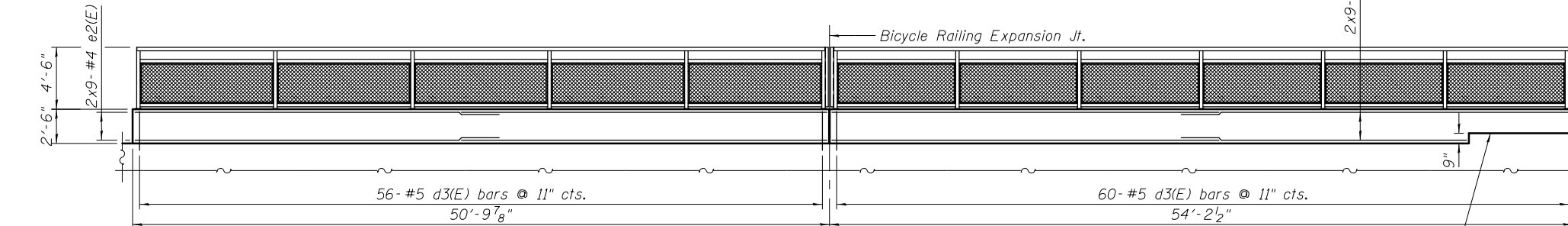
SHEET NO. 6 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	83
CONTRACT NO. 60J13				

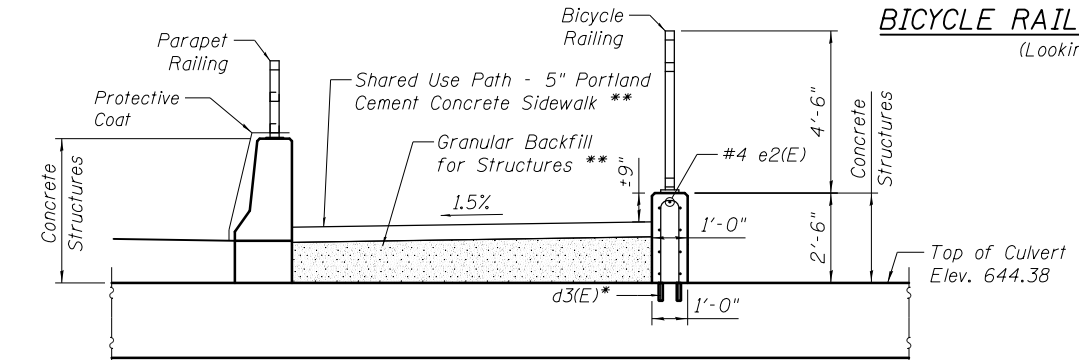
ILLINOIS FED. AID PROJECT



**PARAPET RAILING ELEVATION**  
(Looking North)



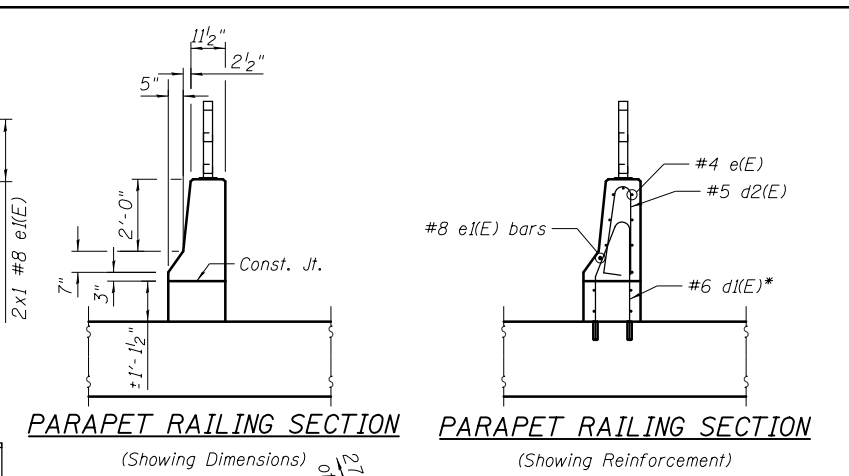
**BICYCLE RAILING ELEVATION**  
(Looking North)



**SECTION A-A**

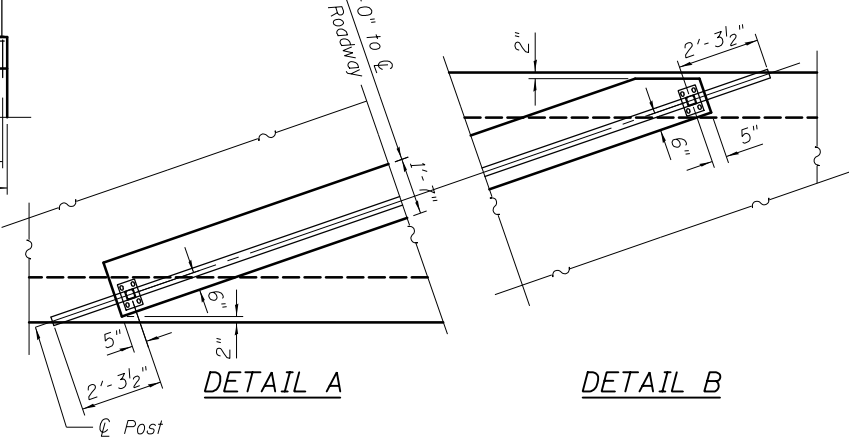
**Notes:**  
See Sheet 8 for additional railing details and quantities.  
\* Core and set d1(E) & d3(E) bar according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Cost included with Parapet Railing and Bicycle Railing.  
\*\* See Roadway plans for quantities

Construction Joint Around Headwall Field Cut d2(E) & e2(E) as Required



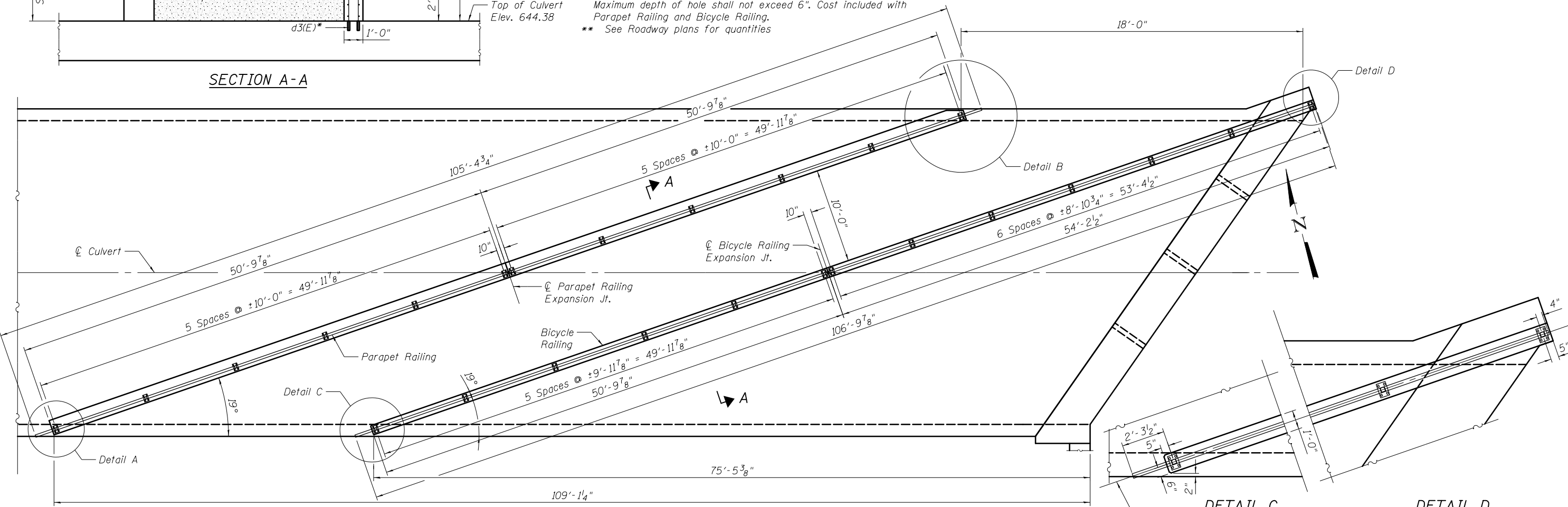
**PARAPET RAILING SECTION**  
(Showing Dimensions)

**PARAPET RAILING SECTION**  
(Showing Reinforcement)



**DETAIL A**

**DETAIL B**



**RAILING PLAN**



USER NAME = jandrews	DESIGNED - BCM	REVISED
PLOT SCALE = N/A	CHECKED - BDT/TZ	REVISED
PLOT DATE = 8/23/2017	DRAWN - BCM	REVISED
	CHECKED - 7/24/2015	REVISED

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

**RAILING PLAN & ELEVATION**  
**STRUCTURE NO. 016-2842**  
SHEET NO. 7 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	84
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT

FILENAME = F:\3-1296\_IL\_B6\DRAWINGS\CADD\Sheets\016-2842-60J13-007-Railing.dgn



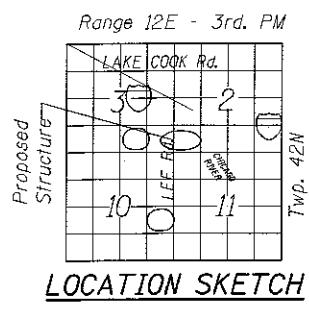
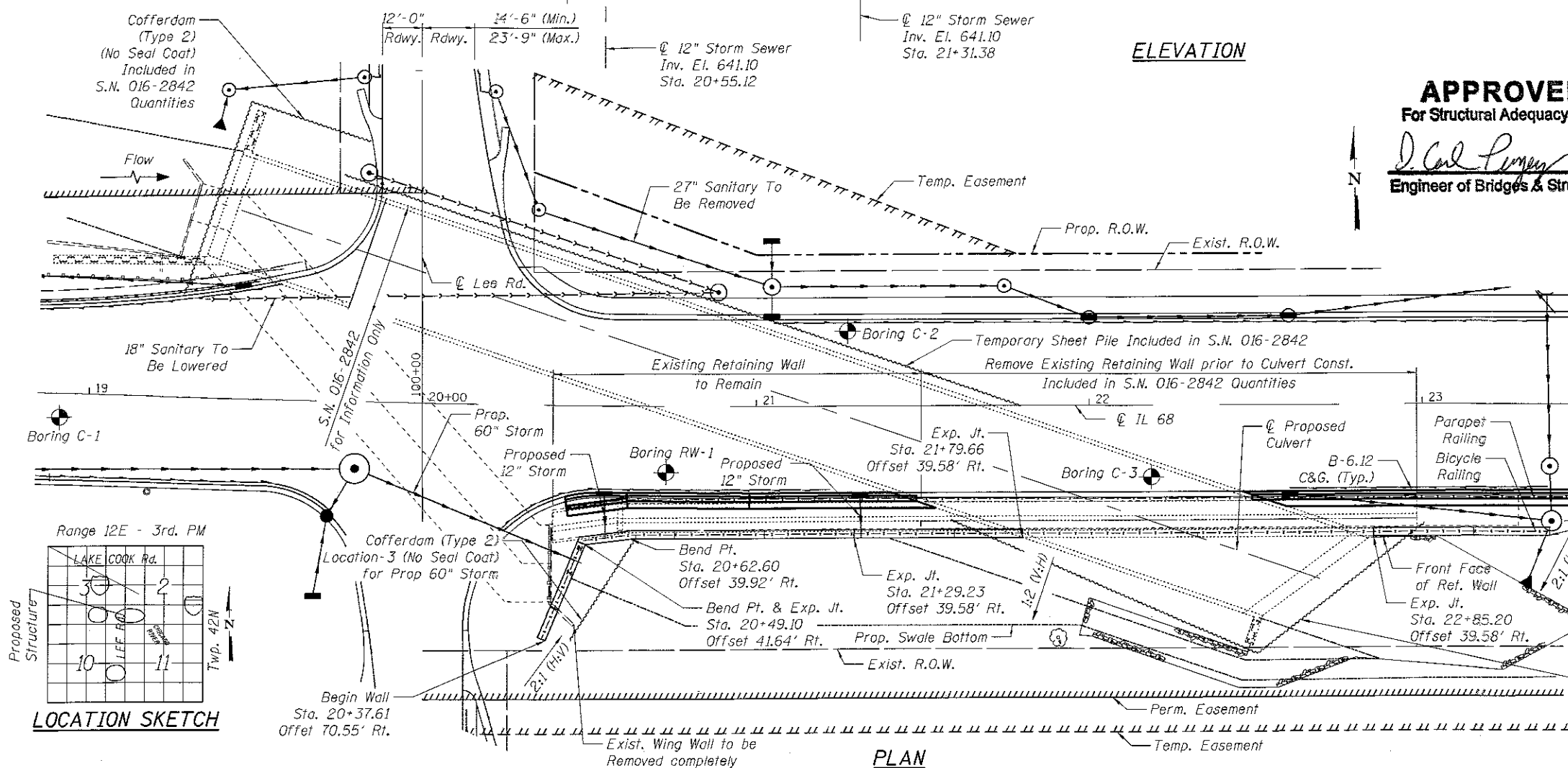
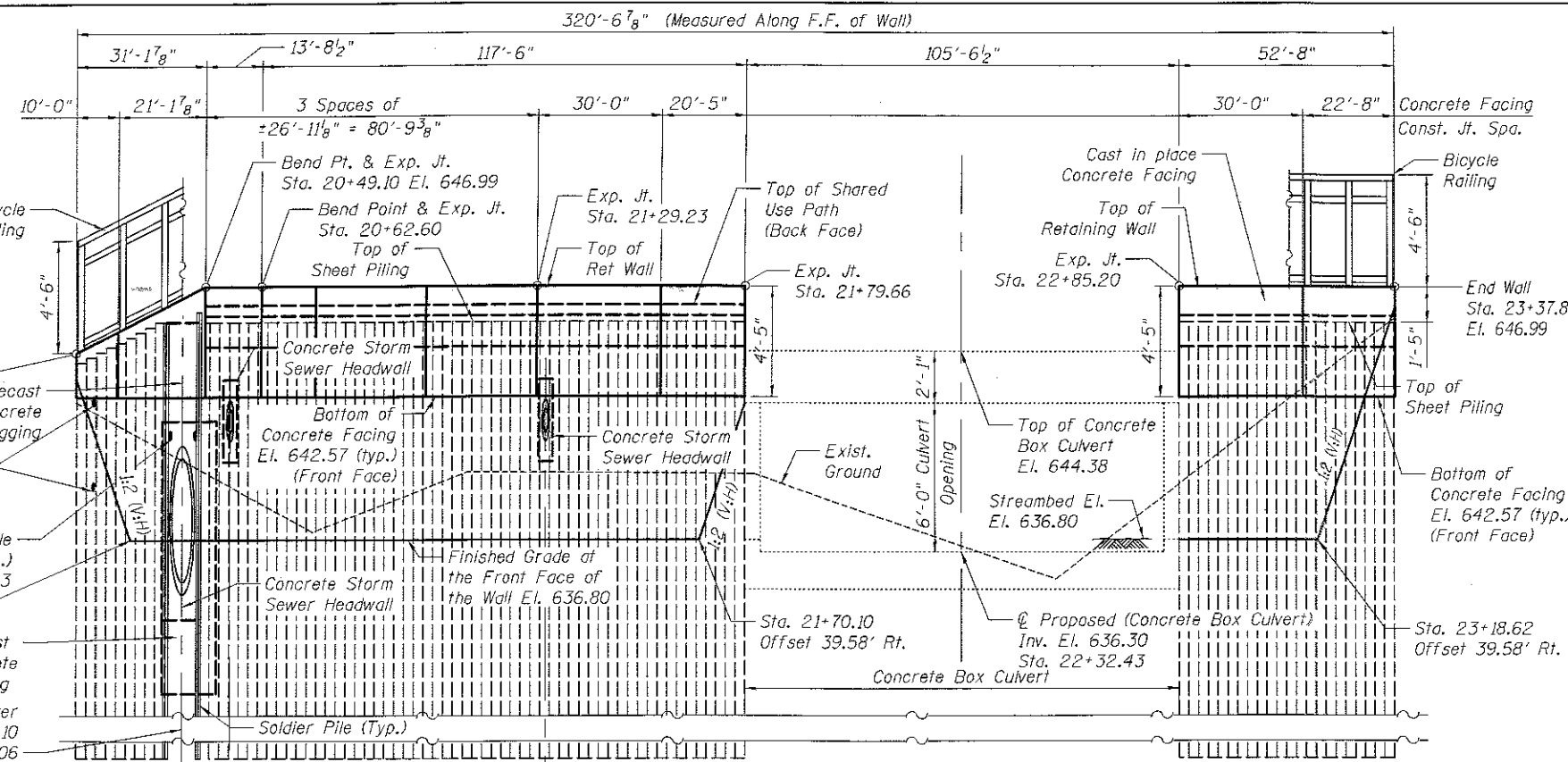


**Benchmark:**  
Square cut in the top of the northwest corner of the headwall in the southeast quadrant of the intersection of IL 68 and Lee Street. Elev. 646.61

**Existing Structure:**  
Built in 1969. Existing Structure is a C.I.P. T-Type reinforced concrete retaining wall which is to partially remain. A new sheet piling retaining wall will be constructed in front of it.  
The east leg of IL 68 will be closed to traffic.

No Salvage

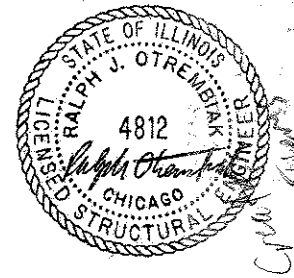
**Note:** All stations and offsets are referenced to IL-68, except as noted.



**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (Sheet Piling & Soldier Piles)

**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

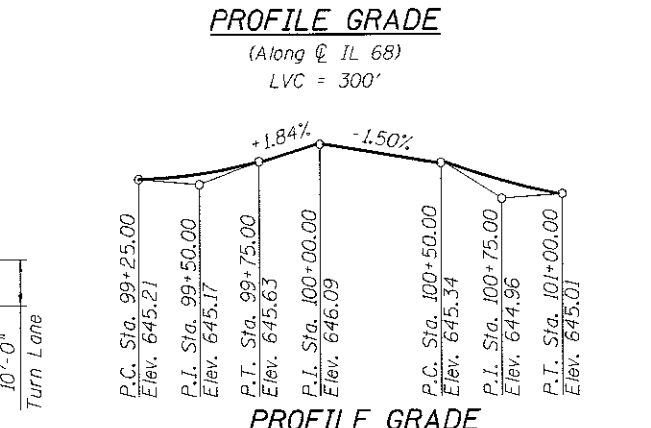
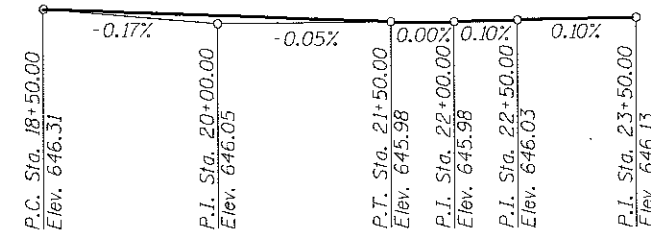
▽D.H.V.  
Elev. 645.27  
▽E.W.S.E.  
Elev. 641.93



DATE 08/23/2017  
EXPIRES 11/30/2018

**ELEVATION**

**APPROVED**  
For Structural Adequacy Only  
*J. Carl Pomeroy JES*  
Engineer of Bridges & Structures



**PLAN**

**GENERAL PLAN & ELEVATION**  
**RETAINING WALL ALONG IL 68 (DUNDEE ROAD)**  
F.A.P. RTE. 343 - SEC 30T-1  
COOK COUNTY  
STATION 20+37.65 TO 23+35.44  
STRUCTURE NO. 016-2281



USER NAME = jandraws	DESIGNED - JA	REVISED
PLOT SCALE = N/A	CHECKED - RJD	REVISED
PLOT DATE = 8/23/2017	DRAWN - JA	REVISED
	CHECKED - 2/16/2017	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
STRUCTURE NO. 016-2281  
SHEET NO. 1 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	86
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Layout of the stream protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.

Permanent sheet piling shall consist of steel sheet piling of the required section modulus as shown on the plans. The contractor may use an equivalent steel sheet pile size at no additional cost to IDOT and without delaying the construction schedule so long as the equivalent sheet pile size meets the required section modulus as noted below.

Permanent sheet piling section property requirements:  
 Required Sheet Pile Section Modulus = 37.5 in<sup>3</sup>/ft

**INDEX OF SHEETS**

- 1 General Plan & Elevation
- 2 General Notes, Index of Sheets & Total Bill of Materials
- 3 Elevation 1
- 4 Elevation 2
- 5 Existing Retaining Wall Removal
- 6 Details
- 7 Sections & Bill of Bars
- 8 Railing Plan & Elevation
- 9 Railing Plan & Elevation 2
- 10 Railing Details

**TOTAL BILL OF MATERIALS**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	158.0
Concrete Removal	Cu Yd	10.5
Cofferdam (Type 2) (Location - 3)	Each	1
Cofferdam Excavation	Cu Yd	186
Concrete Structures	Cu Yd	129.9
Protective Coat	Sq Yd	116
Stud Shear Connectors	Each	367
Reinforcement Bars, Epoxy Coated	Pound	15,910
Bicycle Railing	Foot	214
Parapet Railing	Foot	200
Furnishing Soldier Piles (HP Section)	Foot	80
Driving Soldier Piles	Foot	80
Concrete Collar	Cu Yd	10.8
Permanent Steel Sheet Piling	Sq Ft	8,268
Granular Backfill For Structures	Cu Yd	225
Geotechnical Fabric	Sq Yd	206
Precast Concrete Lagging	Sq Ft	48
Concrete Collars, Precast	Each	1

FILENAME: F:\3-1296\_IL\_66\DRAWINGS\CADD\Sheets\016-2281-60J13\_002-CN.dwg



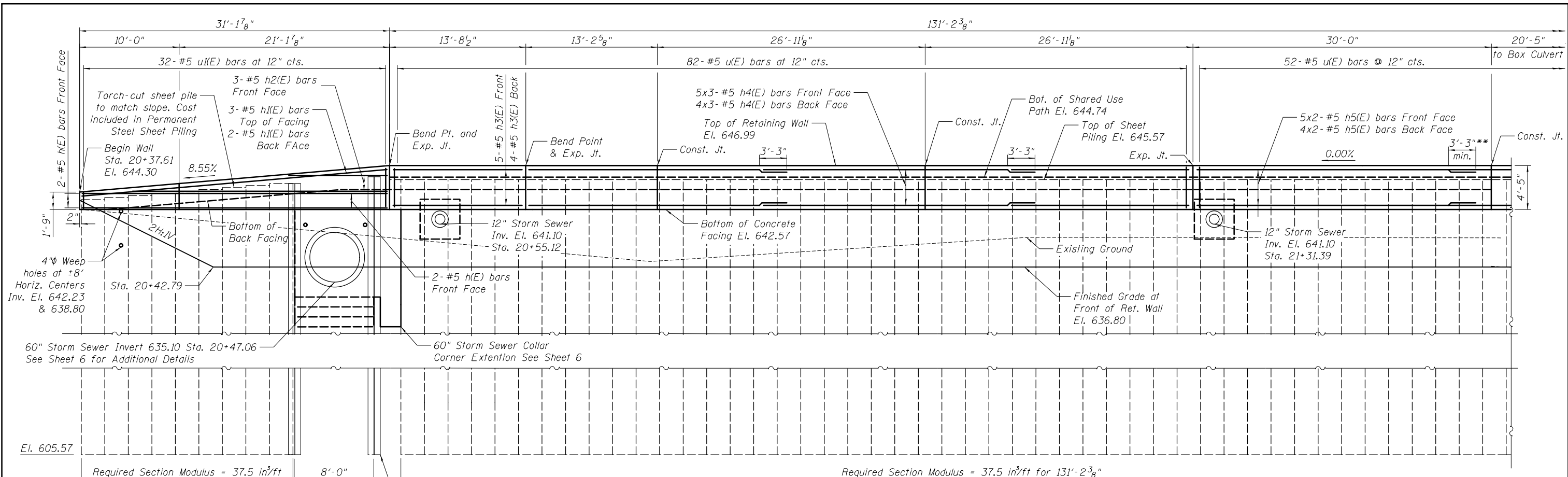
USER NAME = jandrews	DESIGNED - JA	REVISED
	CHECKED - RJO	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 8/23/2017	CHECKED - 2/16/2017	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIALS  
 STRUCTURE NO. 016-2281**

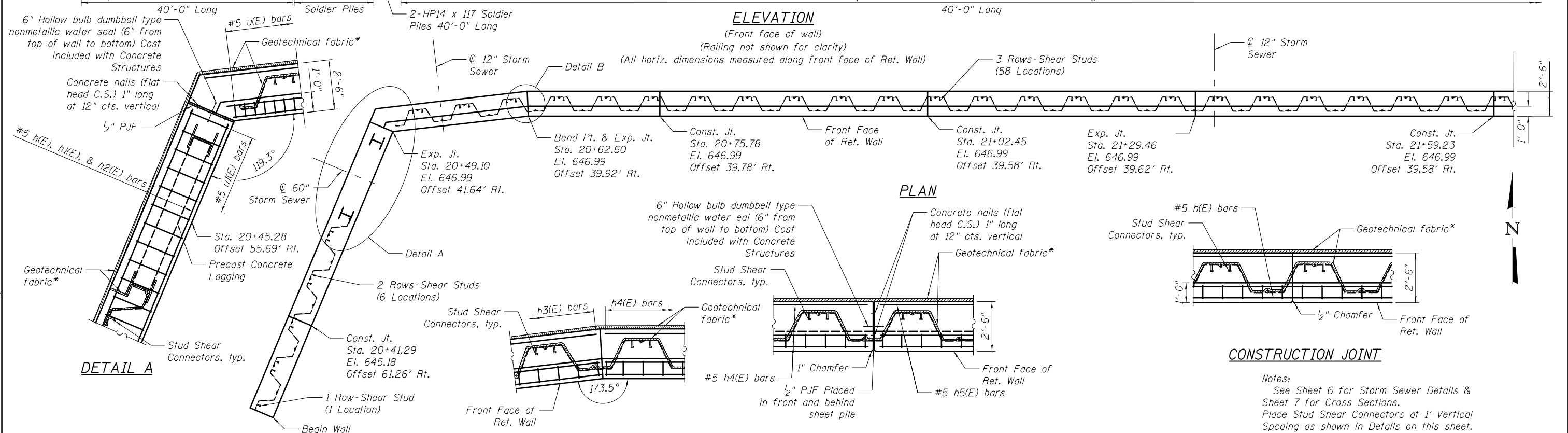
SHEET NO. 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	87
				CONTRACT NO. 60J13
ILLINOIS FED. AID PROJECT				



**ELEVATION**  
(Front face of wall)  
(Railing not shown for clarity)

(All horiz. dimensions measured along front face of Ret. Wall)



**PLAN**

**DETAIL A**

**DETAIL B**

**SHEET PILE EXPANSION JOINT**

**CONSTRUCTION JOINT**

Notes:  
See Sheet 6 for Storm Sewer Details & Sheet 7 for Cross Sections.  
Place Stud Shear Connectors at 1' Vertical Spacing as shown in Details on this sheet.  
\* Geotechnical Fabric placed on back face of concrete and back face of Sheet Piling below concrete. See Section Thru Sheet Pile Wall on Sheet 6 of 10.  
\*\* Vary splice length to accommodate skew at box culvert.

FILENAME = F:\3-1296 IL 66\DRAWINGS\CADD\Sheets\01E2281-60J13-003-Elevation.dgn



USER NAME = jandrews	DESIGNED - JA	REVISED
PLOT SCALE = N/A	CHECKED - RJO	REVISED
PLOT DATE = 8/23/2017	DRAWN - JA	REVISED
	CHECKED - 2/16/2017	REVISED

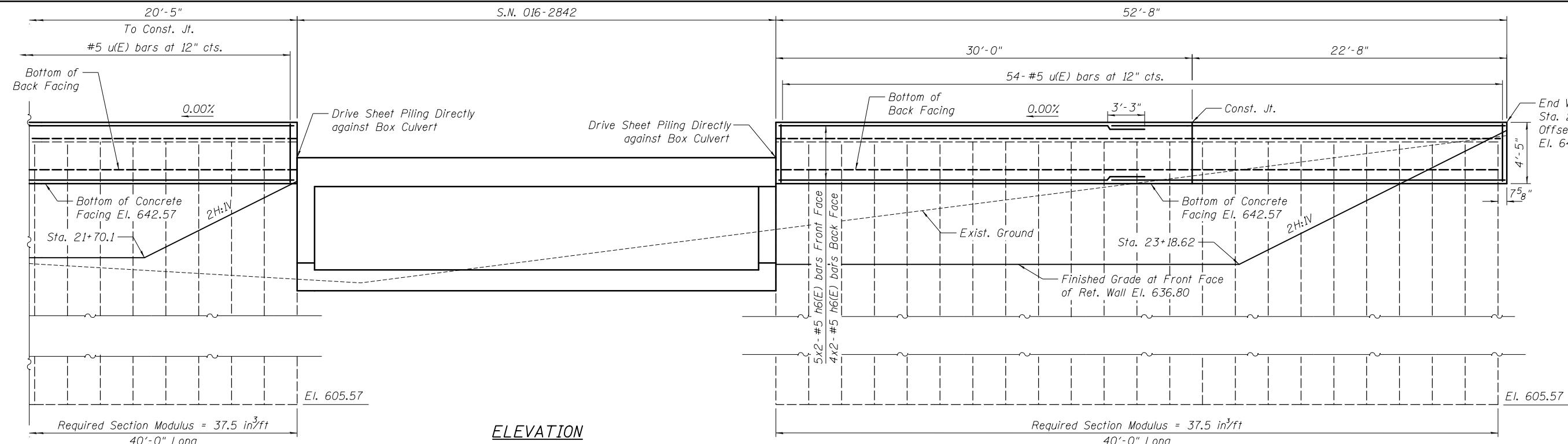
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST ELEVATION  
STRUCTURE NO. 016-2281**

SHEET NO. 3 OF 10 SHEETS

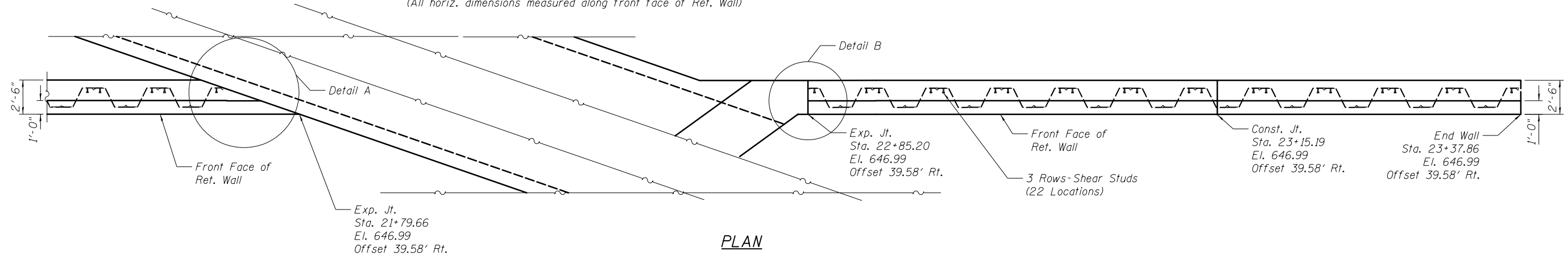
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	88
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT

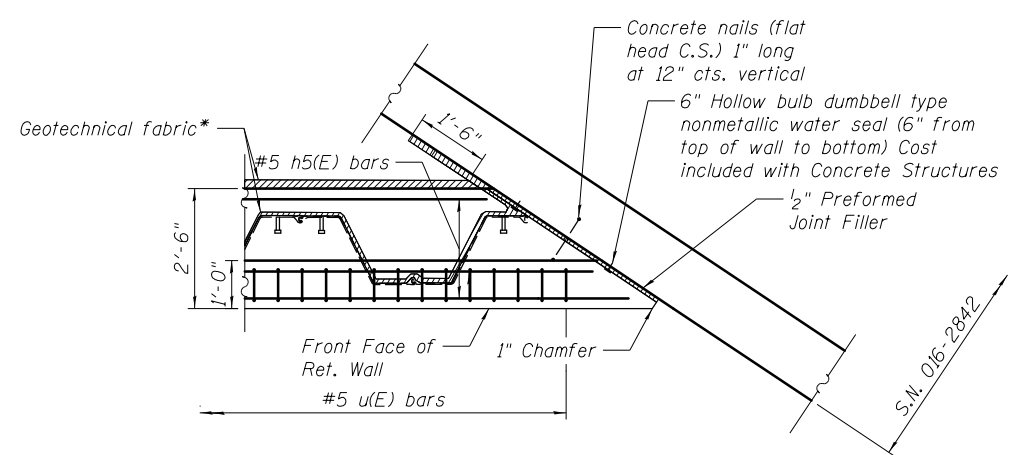


**ELEVATION**

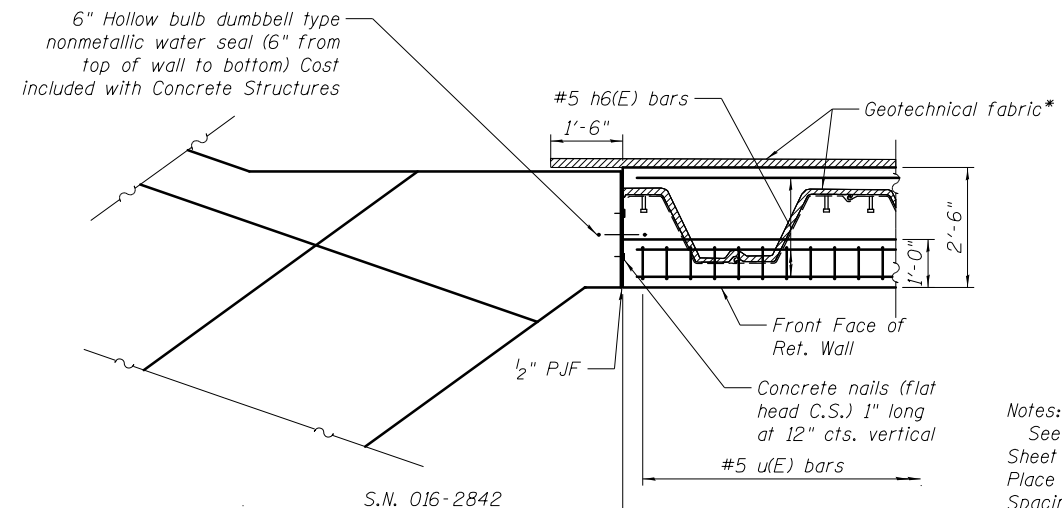
(Front face of wall)  
 (Railings not shown for clarity)  
 (All horiz. dimensions measured along front face of Ret. Wall)



**PLAN**



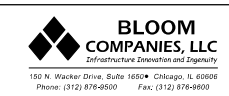
**DETAIL A**



**DETAIL B**

Notes:  
 See Sheet 6 for Storm Sewer Details & Sheet 7 for Cross Sections.  
 Place Stud Shear Connectors at 1' Vertical Spacing as shown in Details on this sheet.  
 \* Geotechnical Fabric placed on back Face of Concrete Facing and back Face of Sheet Piling below Concrete Facing. See Section Thru Sheet Pile Wall on Sheet 6 of 10.

FILENAME: F:\3-1296 IL 66\DRAWINGS\CADD\Sheets\016-2842\60J13\_60A-Elevation.dgn

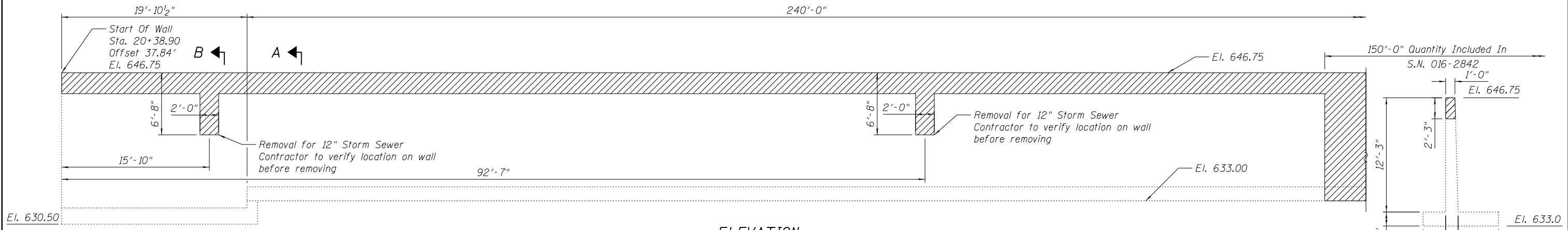


USER NAME = jandrews	DESIGNED - JA	REVISED
	CHECKED - RJO	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 8/23/2017	CHECKED - 2/16/2017	REVISED

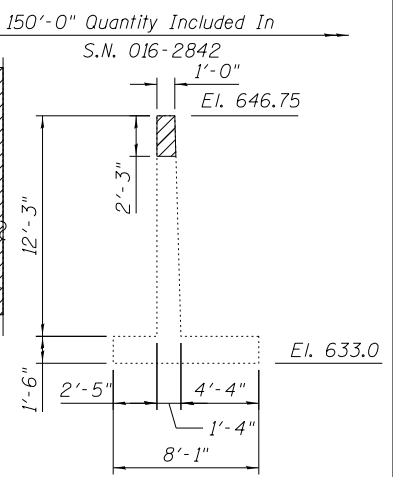
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST ELEVATION  
 STRUCTURE NO. 016-2842**  
 SHEET NO. 4 OF 10 SHEETS

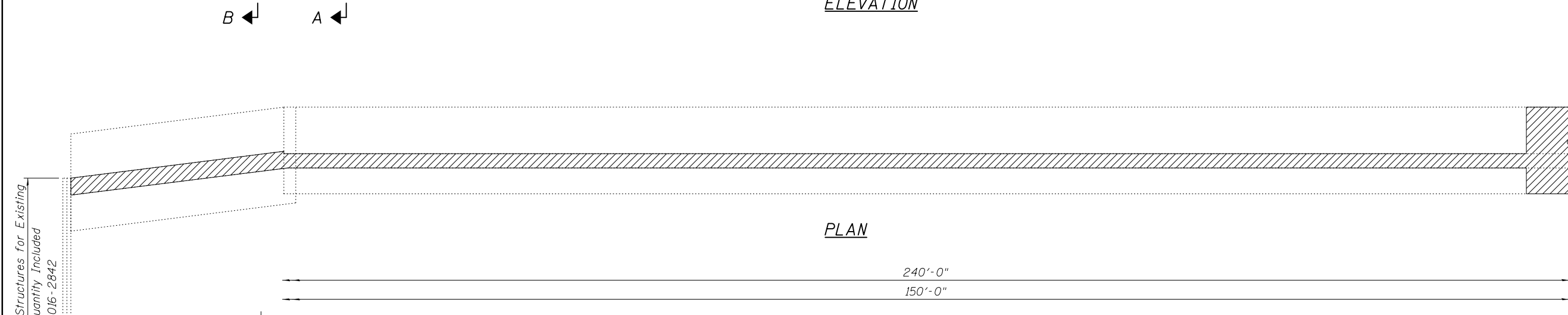
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	89
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				



ELEVATION

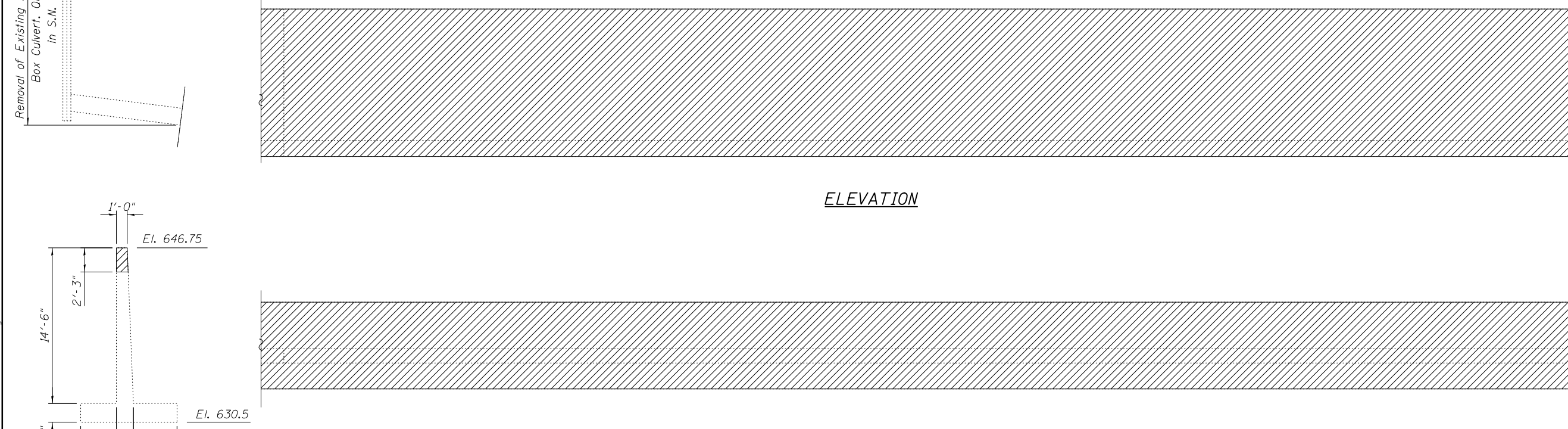


SECTION A-A

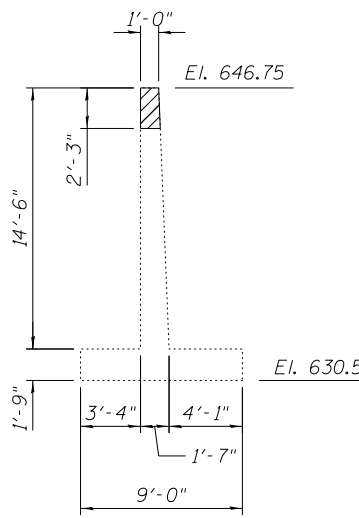


PLAN

ELEVATION



PLAN



SECTION B-B

LEGEND:

	Concrete Removal
--	------------------

Concrete Removal	Cu. Yd.
S.N. 016-2281	10.5
S.N. 016-2842	145.8

FILENAME: F:\3-1296\_IL\_68\DRAWINGS\CADD\Sheets\016-2842\60J13\_005-REM.dgn



USER NAME = jandrews	DESIGNED - JA	REVISED
PLOT SCALE = N/A	CHECKED - RJO	REVISED
PLOT DATE = 8/23/2017	DRAWN - JA	REVISED
	CHECKED - 2/16/2017	REVISED

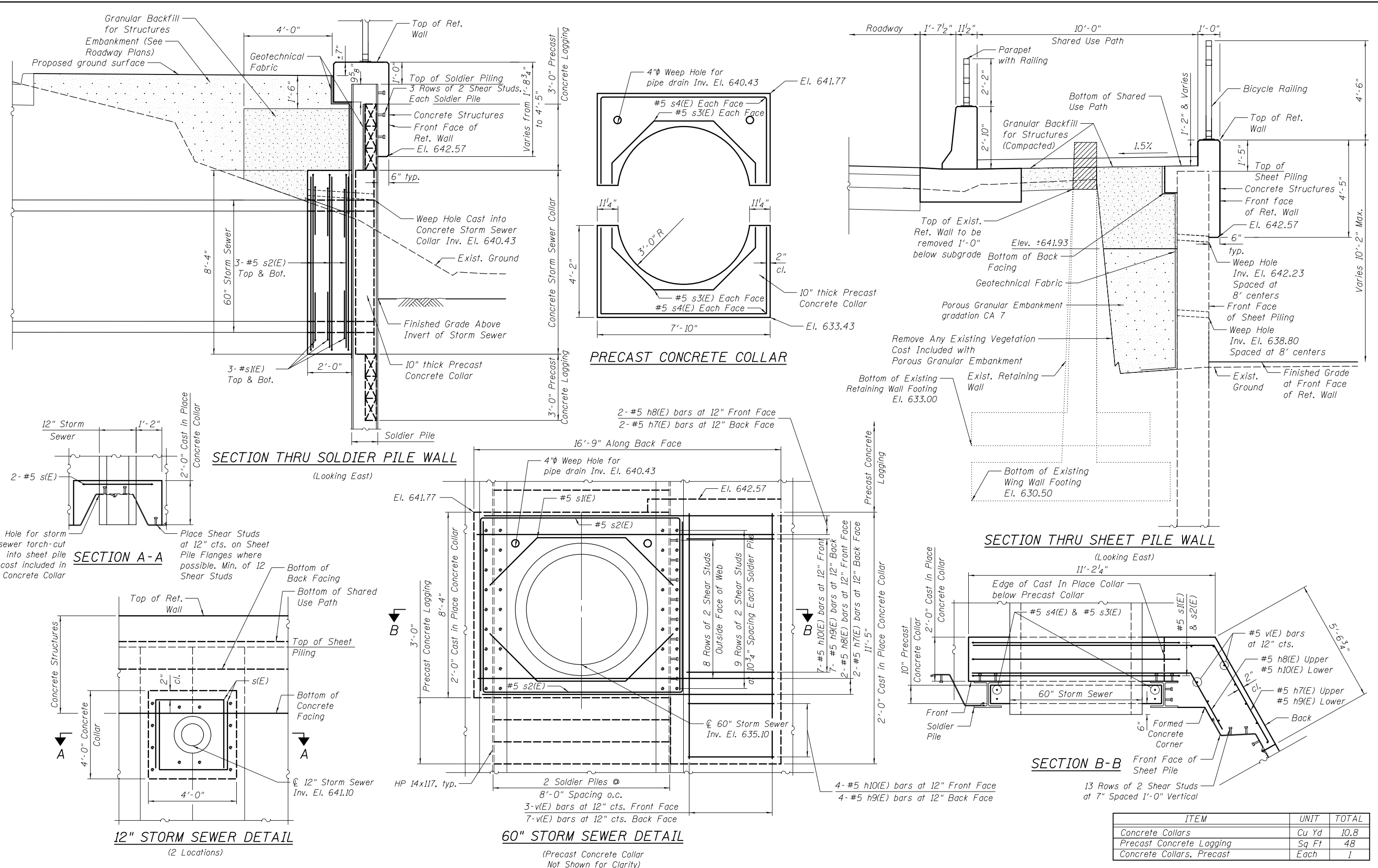
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING RETAINING WALL REMOVAL  
STRUCTURE NO. 016-2281

SHEET NO. 5 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	90
CONTRACT NO. 60J13				

ILLINOIS FED. AID PROJECT



ITEM	UNIT	TOTAL
Concrete Collars	Cu Yd	10.8
Precast Concrete Lagging	Sq Ft	48
Concrete Collars, Precast	Each	1

FILENAME = F:\3-1296 IL 66\DRAWINGS\CADD\Sheets\0162281-60J13-096-Details.dwg



USER NAME = jandrews  
 DESIGNED - JA  
 CHECKED - RJO  
 PLOT SCALE = N/A  
 PLOT DATE = 8/23/2017

REVISED  
 REVISED  
 REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS  
 STRUCTURE NO. 016-2281

SHEET NO. 6 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	91

CONTRACT NO. 60J13

ILLINOIS FED. AID PROJECT

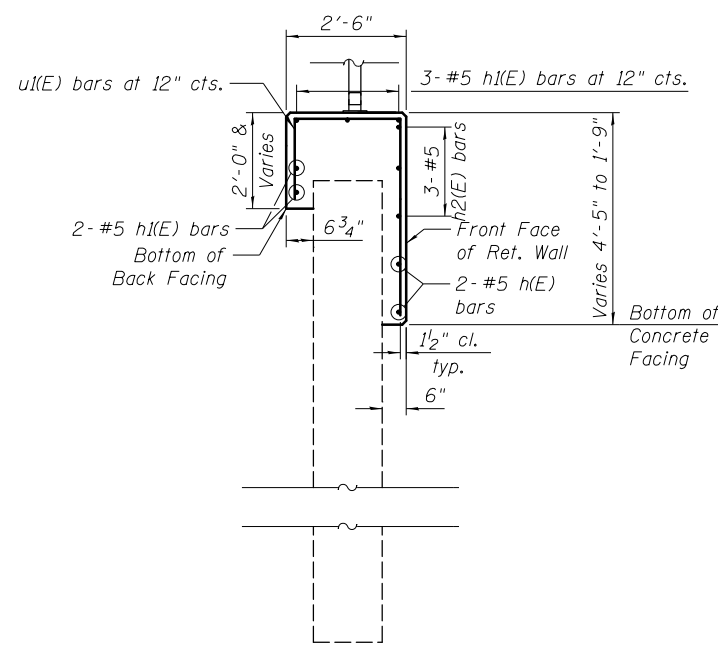
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	21	#5	8'-3"	
d1(E)	195	#5	7'-5 1/4"	
d2(E)	212	#5	5'-7"	
d3(E)	14	#5	7'-4 3/4"	
d4(E)	3	#5	7'-5 1/4"	
e(E)	7	#4	17'-11"	
e1(E)	16	#4	19'-6"	
e2(E)	16	#4	26'-3"	
e3(E)	16	#4	25'-9"	
e4(E)	16	#4	26'-3"	
e5(E)	1	#8	17'-11"	
e6(E)	2	#8	21'-6"	
e7(E)	2	#8	28'-3"	
e8(E)	2	#8	27'-9"	
e9(E)	2	#8	28'-3"	
h(E)	2	#5	30'-11"	
h1(E)	5	#5	31'-0"	
h2(E)	3	#5	19'-4"	
h3(E)	9	#5	13'-5 1/2"	
h4(E)	27	#5	24'-6"	
h5(E)	18	#5	26'-9"	
h6(E)	18	#5	27'-10"	
h7(E)	4	#5	8'-4"	
h8(E)	4	#5	4'-10 3/8"	
h9(E)	11	#5	16'-2 1/2"	
h10(E)	11	#5	12'-8 3/4"	
s(E)	4	#5	10'-8"	
s1(E)	6	#5	11'-6"	
s2(E)	6	#5	25'-11"	
s3(E)	4	#5	10'-6"	
s4(E)	4	#5	15'-2"	
t(E)	26	#6	5'-7"	
t1(E)	50	#6	5'-1"	
t2(E)	678	#6	4'-3"	
t3(E)	48	#6	2'-3 1/2"	
t4(E)	48	#6	2'-3 1/2"	
u(E)	188	#5	5'-11"	
u1(E)	32	#5	6'-8"	
v(E)	10	#5	11'-1"	
w(E)	8	#4	17'-11"	
w1(E)	20	#4	19'-8"	
w2(E)	10	#4	30'-0"	
w3(E)	10	#4	21'-6 1/2"	
w4(E)	10	#4	30'-0"	
w5(E)	10	#4	17'-8 1/2"	
w6(E)	20	#4	26'-3"	
w7(E)	6	#4	18'-1"	
Concrete Structures			Cu. Yd.	129.9
Stud Shear Connectors			Each	367
Reinforcement Bars, Epoxy Coated			Pound	15,910

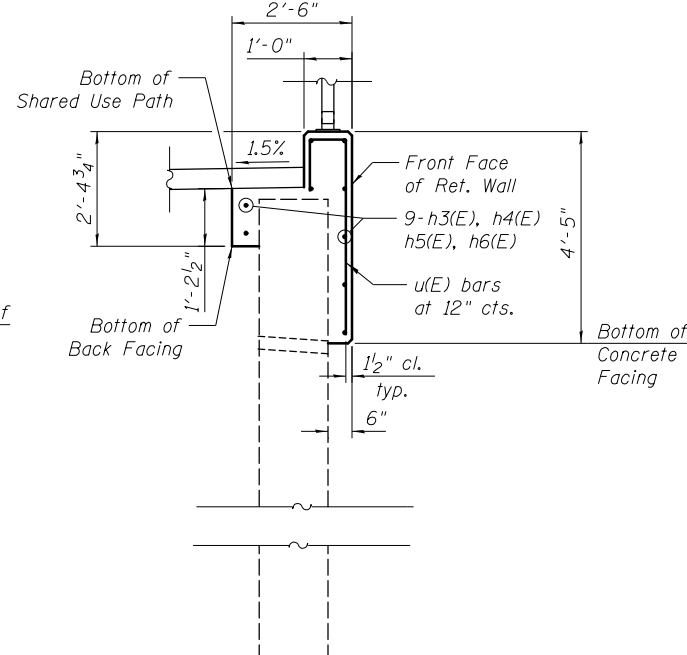
\* See Bar Series Table

**BAR SERIES TABLE**

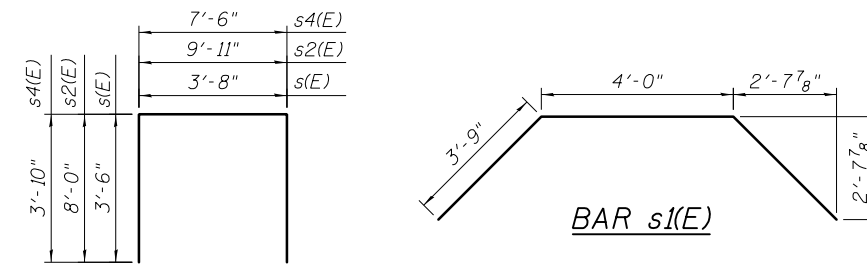
Bar	No. Required	Length
h2(E)	1 Series of 3	9'-8" to 29'-0 3/8"
t1(E)	2 Series of 25	4'-4 1/2" to 5'-9 5/8"
t3(E)	2 Series of 24	0'-3 5/8" to 4'-3 3/8"
t4(E)	2 Series of 24	0'-3 5/8" to 4'-3 3/8"
u1(E)	1 Series of 32	1'-6" to 5'-11"
w3(E)	2 Series of 5	14'-10" to 28'-3"
w5(E)	2 Series of 5	11'-1" to 24'-4"
w7(E)	2 Series of 3	18'-0" to 18'-2"



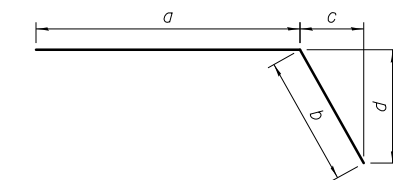
**SECTION THRU SHEET PILE WEST OF SOLDIER PILE**



**SECTION THRU SHEET PILE EAST OF SOLDIER PILE**

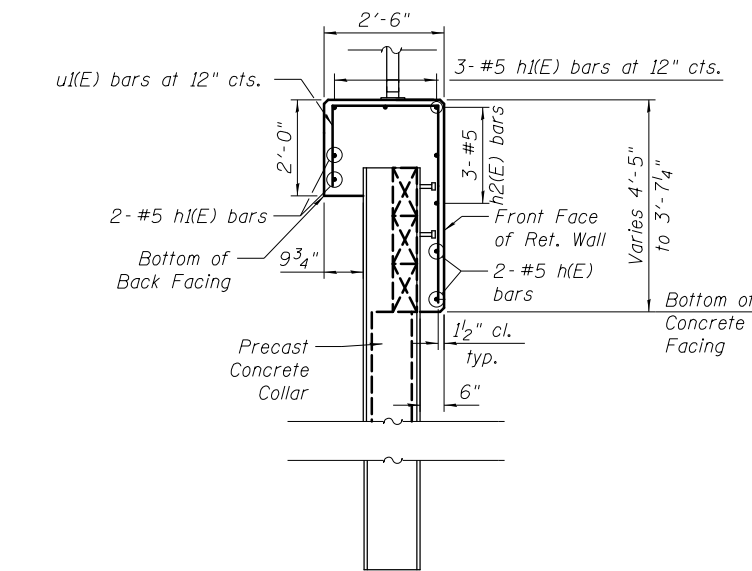


**BARS s(E), s2(E), s4(E)**

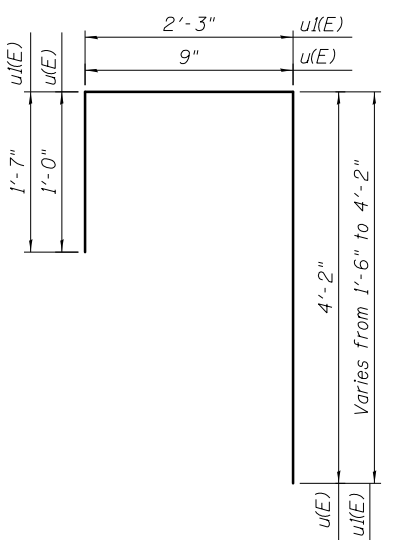


**BARS h7(E), h8(E), h9(E), h10(E)**

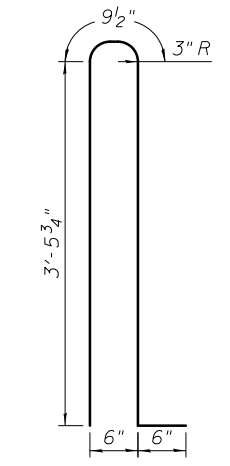
Bar	a	b	c	d
h7(E)	3'-0 1/2"	5'-3 1/2"	2'-7 7/8"	4'-7 3/8"
h8(E)	2'-0 5/8"	2'-9 3/4"	1'-4 7/8"	2'-5 1/4"
h9(E)	10'-11"	5'-3 1/2"	2'-7 7/8"	4'-7 3/8"
h10(E)	9'-11"	2'-9 3/4"	1'-4 7/8"	2'-5 1/4"



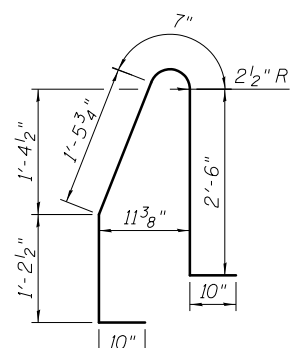
**SECTION THRU SOLDIER PILE**



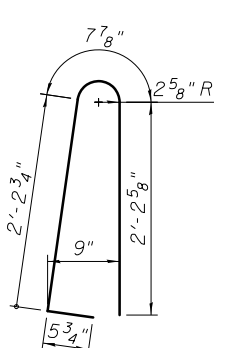
**BARS u(E), u1(E)**



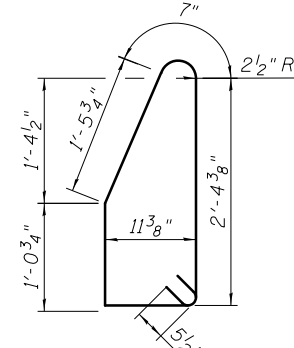
**BAR d(E)**



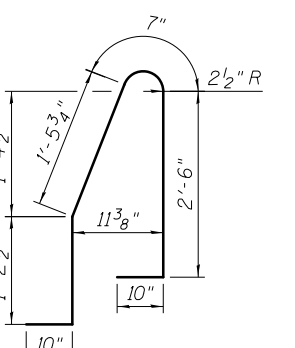
**BAR d1(E)**



**BAR d2(E)**



**BAR d3(E)**



**BAR d4(E)**

FILENAME = F:\3-1296 IL 650\DRAWINGS\CADD\Sheets\01E2281-60J13-987-Reinforcement\01E2281.dgn

USER NAME = jandrews	DESIGNED - JA	REVISED
	CHECKED -	REVISED
PLOT SCALE = N/A	DRAWN -	REVISED
PLOT DATE = 8/23/2017	CHECKED - 2/16/2017	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

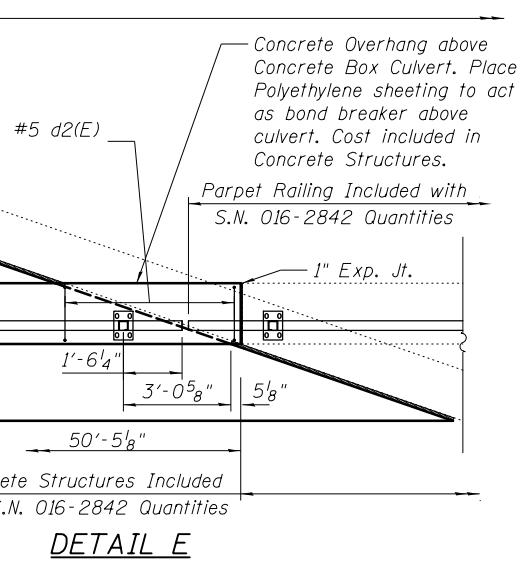
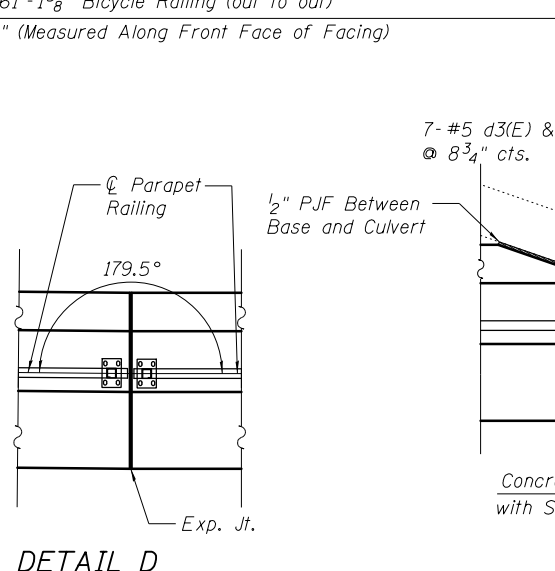
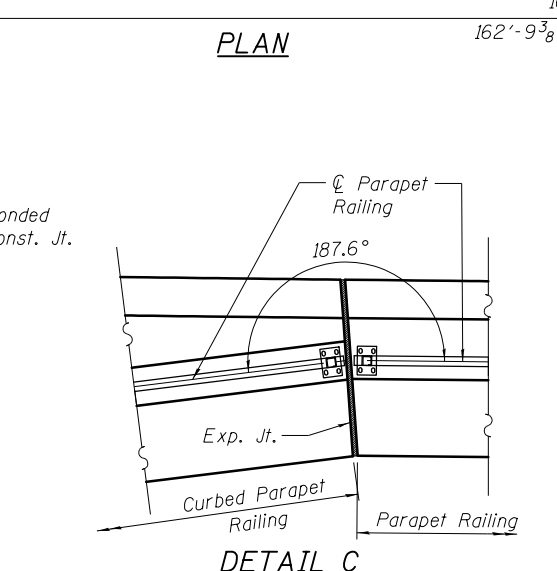
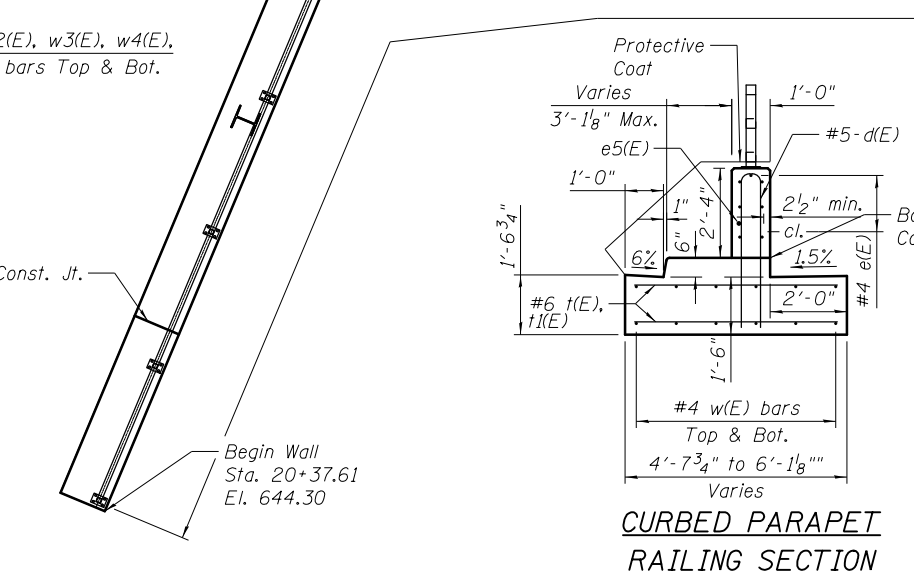
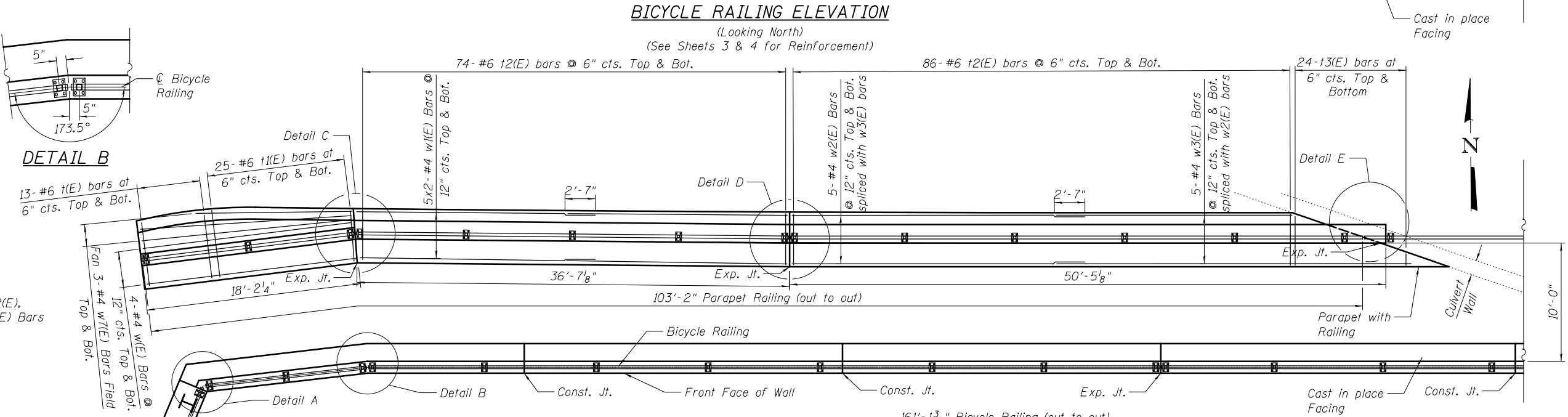
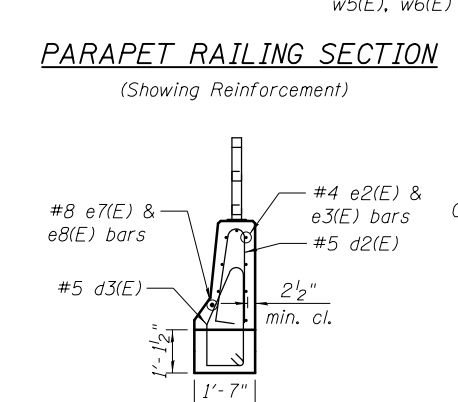
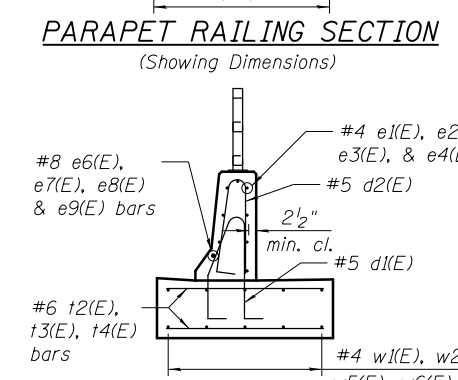
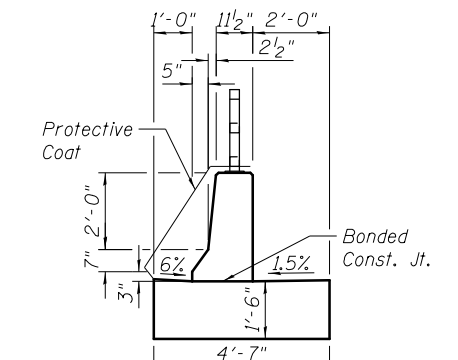
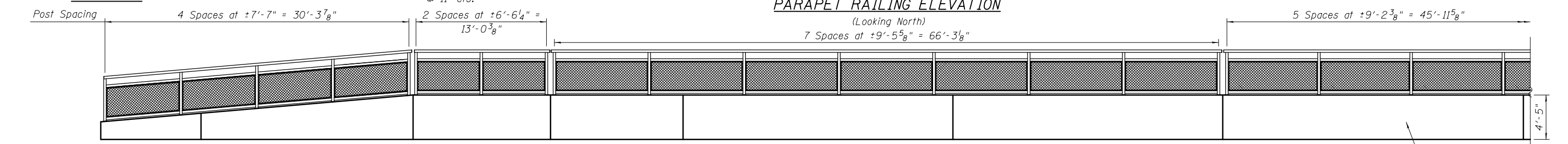
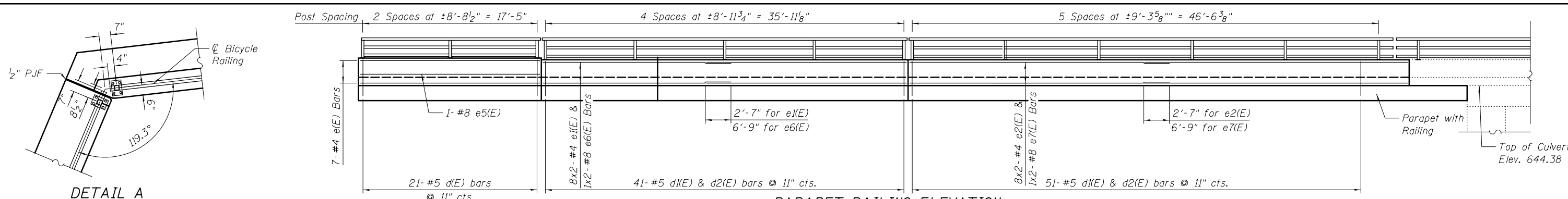
SHEET NO. OF

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	92

CONTRACT NO. 60J13

ILLINOIS FED. AID PROJECT





FILENAME: F:\3-1296\_IL\_66\DRAWINGS\CADD\Sheets\0162281-60J13\_008-RailingElevation\Kest.dgn

**BLOOM COMPANIES, LLC**  
Infrastructure Division and Specialty  
150 N. Wacker Drive, Suite 1650 • Chicago, IL 60606  
Phone: (312) 876-9500 Fax: (312) 876-9800

USER NAME = jandrews	DESIGNED - JA	REVISED
PLOT SCALE = N/A	CHECKED - RJO	REVISED
PLOT DATE = 8/23/2017	DRAWN - JA	REVISED
	CHECKED - 2/16/2017	REVISED

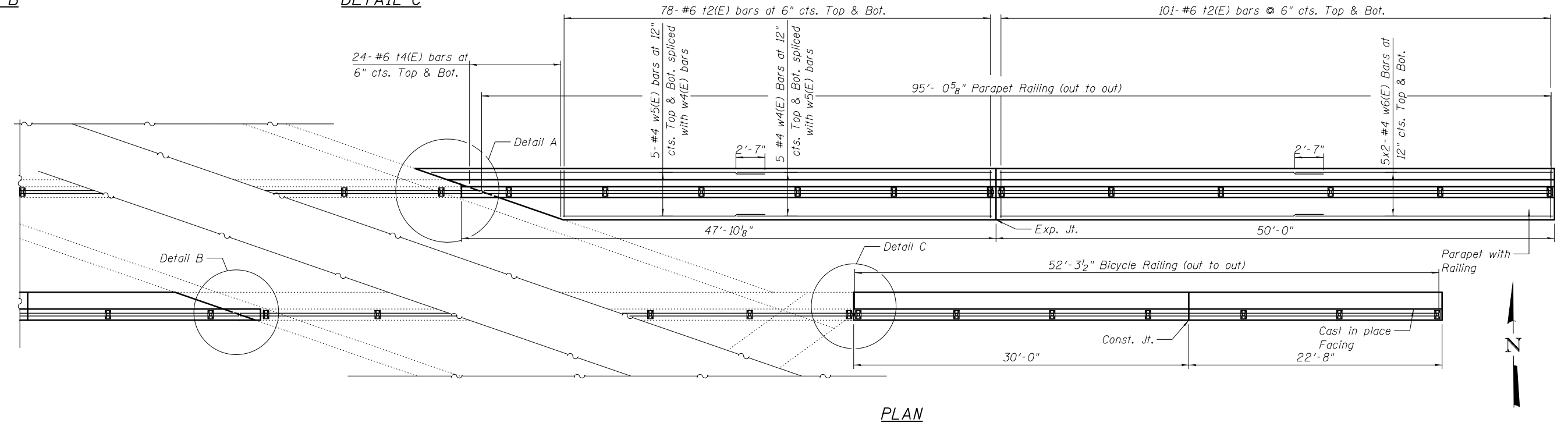
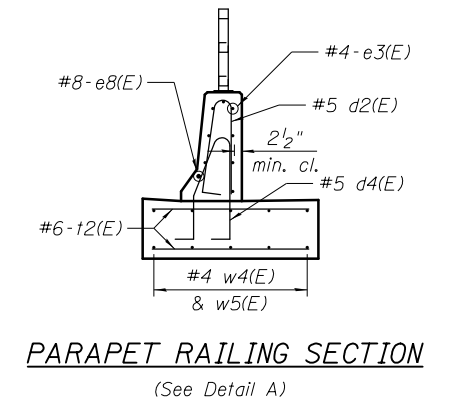
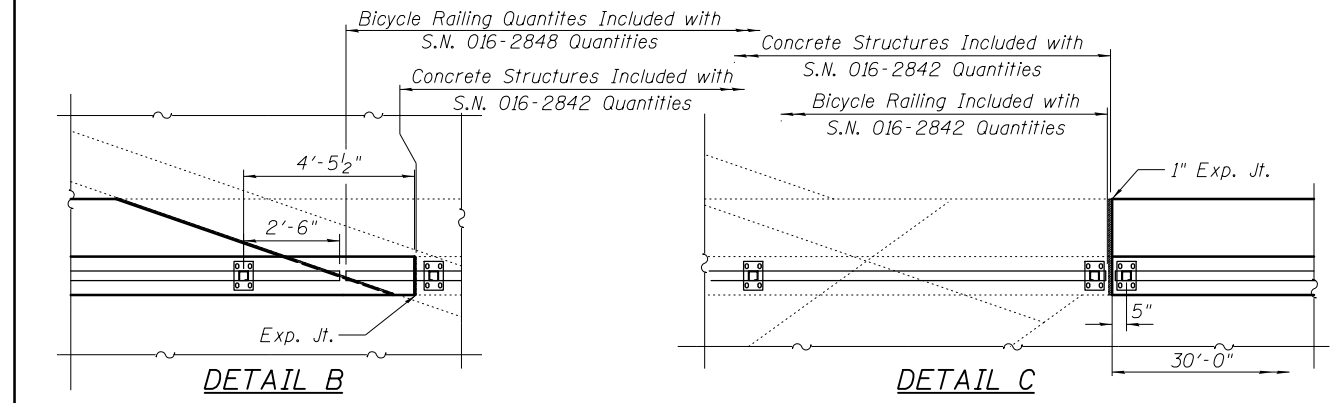
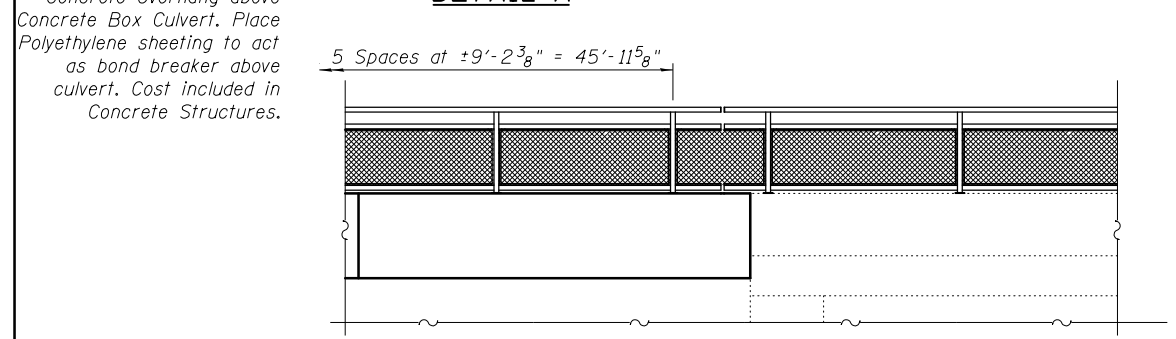
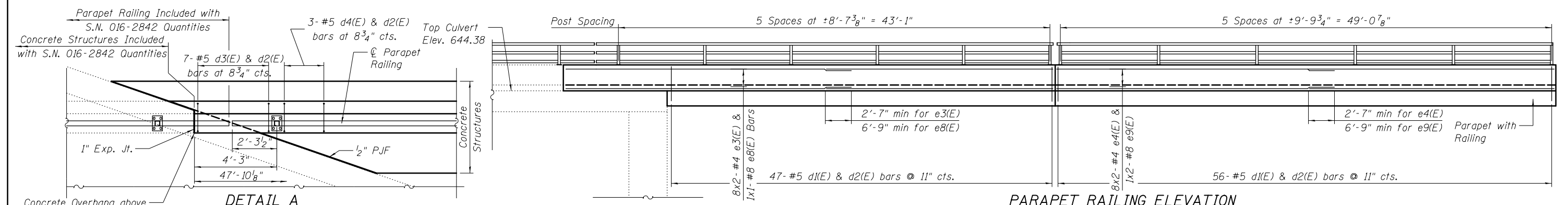
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAILING PLAN & ELEVATION  
STRUCTURE NO. 016-2281

SHEET NO. 8 OF 10 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	93
CONTRACT NO. 60J13			ILLINOIS FED. AID PROJECT	

FILENAME: F:\3-1296\_IL\_66\DRAWINGS\CADD\Sheets\0162281-60J13\_009-RailingElevationEast.dgn



Notes:  
 See Sheet 7 for Parapet Railing Section

**BLOOM COMPANIES, LLC**  
 Infrastructure Division and Specialty  
 150 N. Wacker Drive, Suite 1650 • Chicago, IL 60606  
 Phone: (312) 876-9500 Fax: (312) 876-9900

USER NAME = tborges	DESIGNED - JA	REVISED
	CHECKED - RJO	REVISED
PLOT SCALE = N/A	DRAWN - JA	REVISED
PLOT DATE = 8/23/2017	CHECKED - 2/16/2017	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

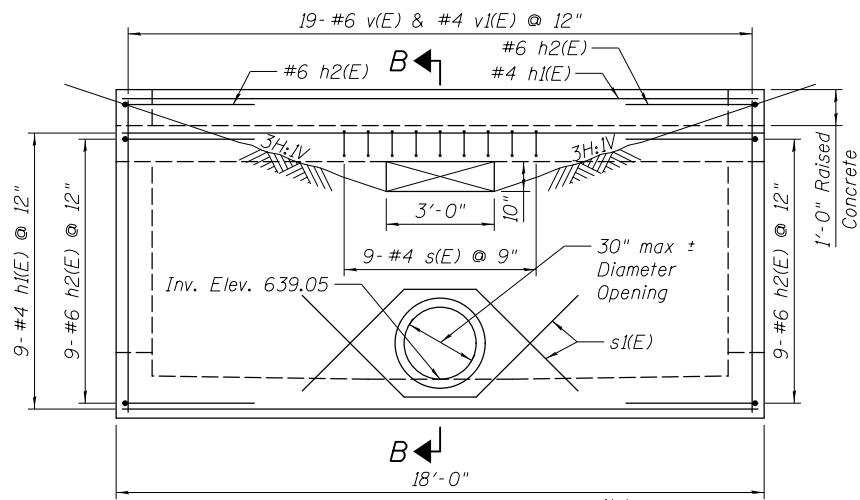
**RAILING PLAN & ELEVATION 2  
 STRUCTURE NO. 016-2281**  
 SHEET NO. 9 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	94
CONTRACT NO. 60J13				

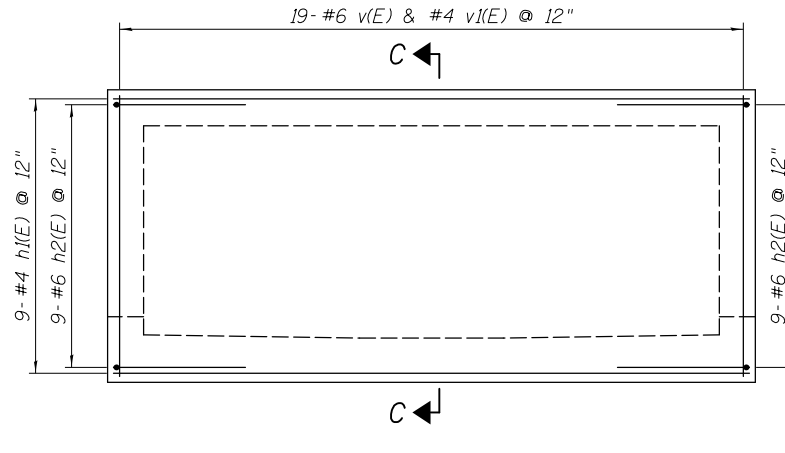
ILLINOIS FED. AID PROJECT



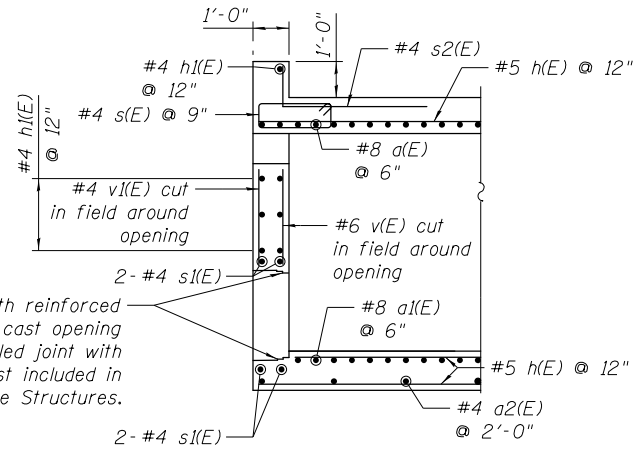




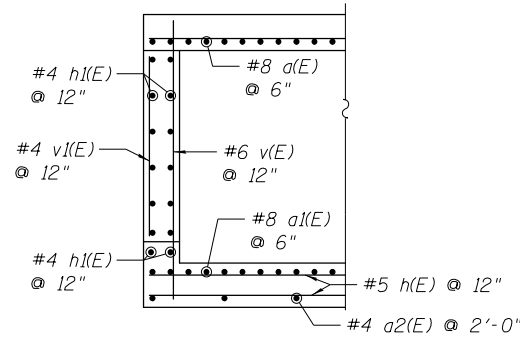
**WEST ELEVATION**  
(Longitudinal Reinforcement & Railing not Shown for Clarity)



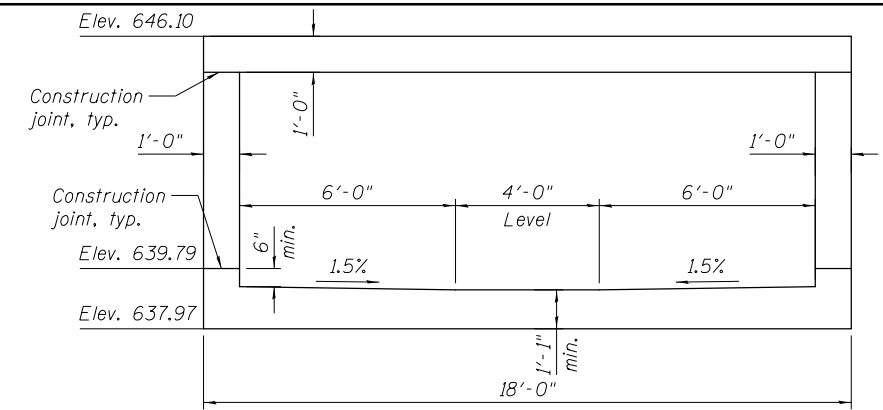
**EAST ELEVATION**  
(Longitudinal Reinforcement not Shown for Clarity)



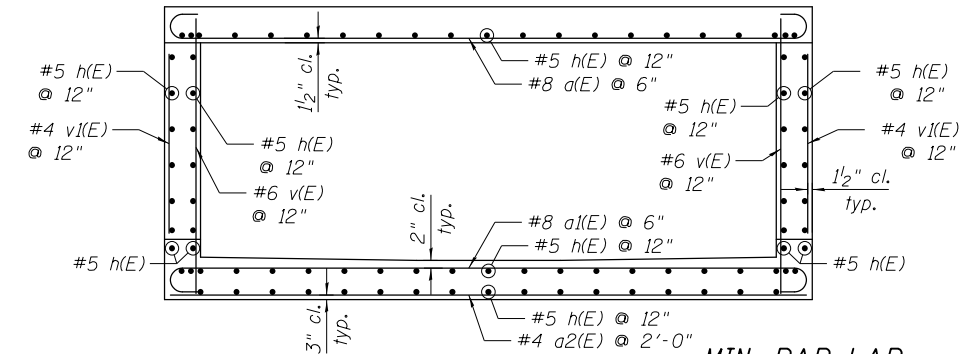
**SECTION B-B**  
(Railing not Shown for Clarity)



**SECTION C-C**



**SECTION A-A**  
(Showing Dimensions)



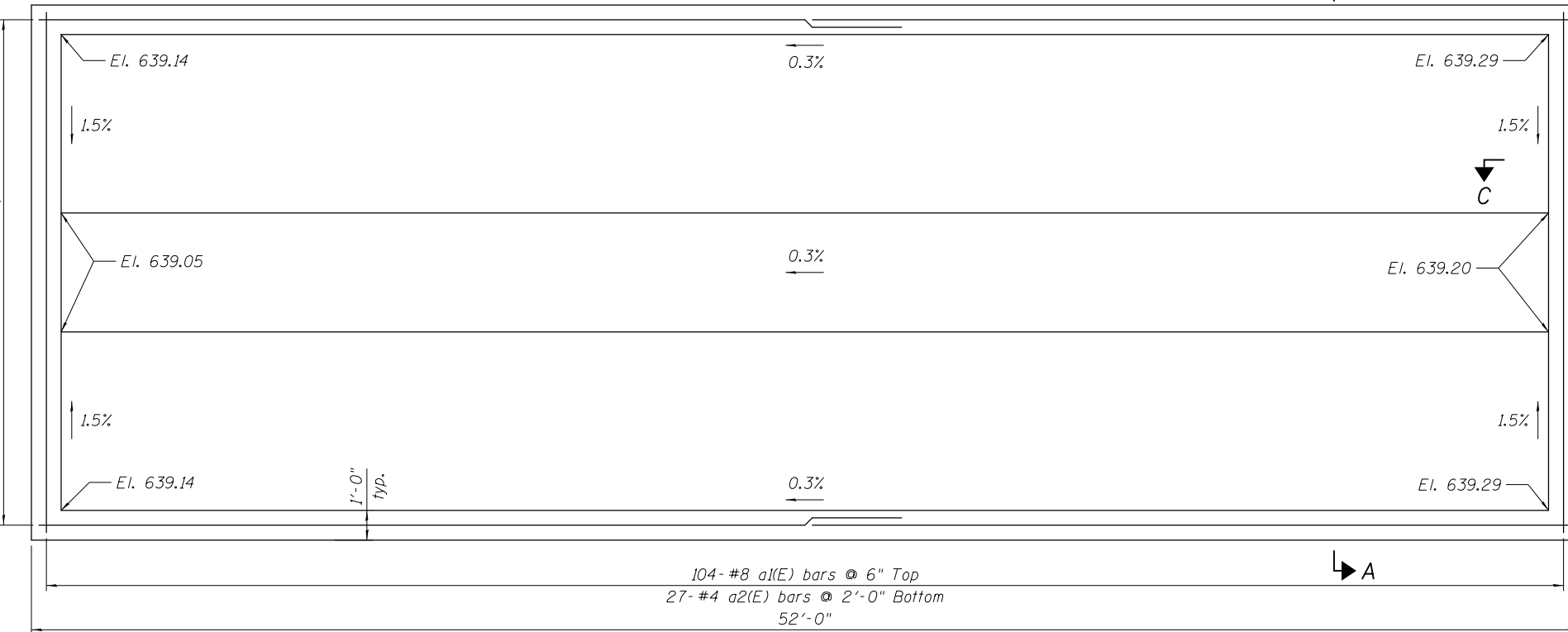
**SECTION A-A**  
(Showing Reinforcement)

**MIN. BAR LAP**

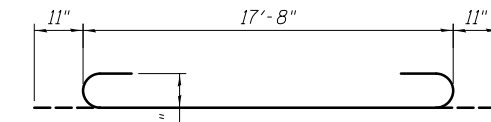
#4 Bars = 2'-4"  
#5 Bars = 2'-11"

**BILL OF MATERIAL**

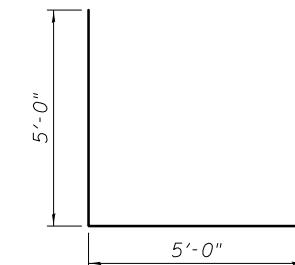
Bar	No.	Size	Length	Shape
a(E)	104	#8	19'-6"	
a1(E)	104	#8	19'-6"	
a2(E)	27	#4	17'-8"	
h(E)	180	#5	27'-4"	
h1(E)	37	#4	17'-8"	
h2(E)	38	#6	10'-0"	
h3(E)	2	#4	9'-8"	
h4(E)	4	#5	8'-4"	
s(E)	9	#4	6'-1"	
s1(E)	4	#4	10'-0"	
s2(E)	28	#4	4'-0"	
v(E)	144	#6	7'-9"	
v1(E)	144	#4	4'-11"	
Concrete Structures		Cu. Yd.	106.8	
Reinforcement Bars, Epoxy Coated		Pound	19,660	



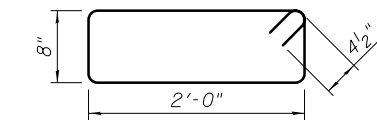
**BOTTOM PLAN**



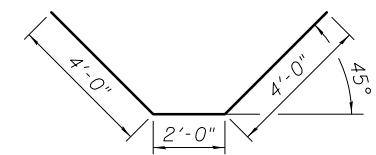
**BAR a(E) & a1(E)**



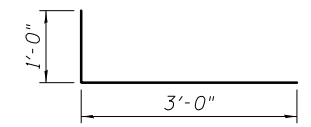
**BAR h2(E)**



**BAR s(E)**



**BAR s1(E)**



**BAR s2(E)**

FILENAME = F:\3-1296\_IL\_S&S\DRAWINGS\CADD\Sheets\60J13-002\_Bot.dgn



USER NAME = tborges  
DESIGNED - BCM  
CHECKED - RJO  
PLOT SCALE = N/A  
DRAWN - BCM  
PLOT DATE = 10/6/2017

DESIGNED - BCM  
CHECKED - RJO  
DRAWN - BCM  
CHECKED - RJO

REVISED  
REVISED  
REVISED  
REVISED

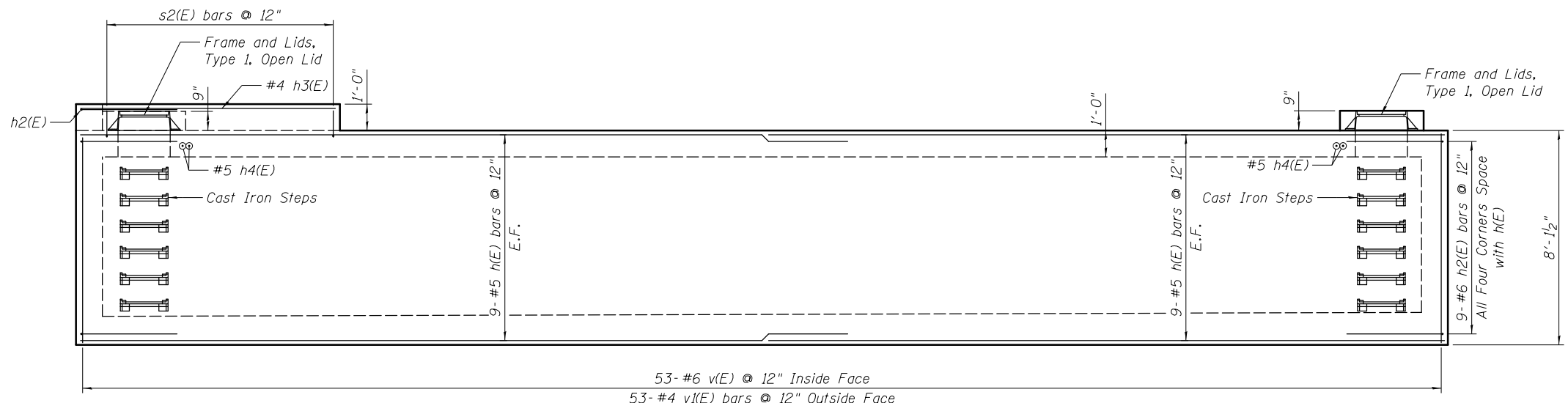
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BOTTOM PLAN & WALLS  
FLOODWAY COMPENSATORY CHAMBER**

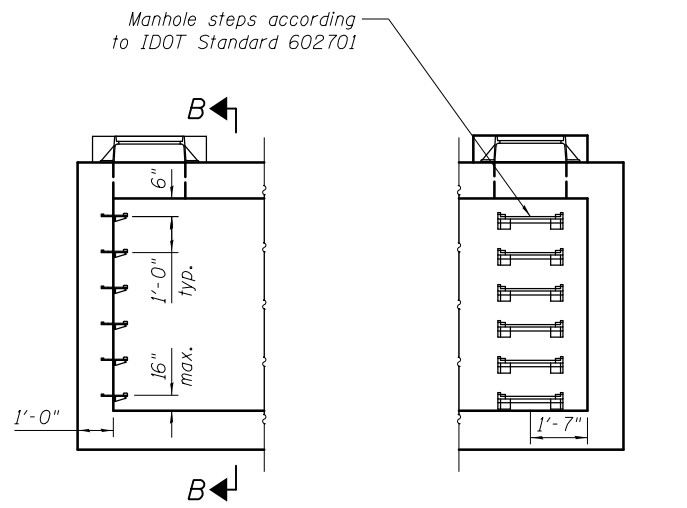
SHEET NO. S2 OF S4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	97
CONTRACT NO. 60J13				

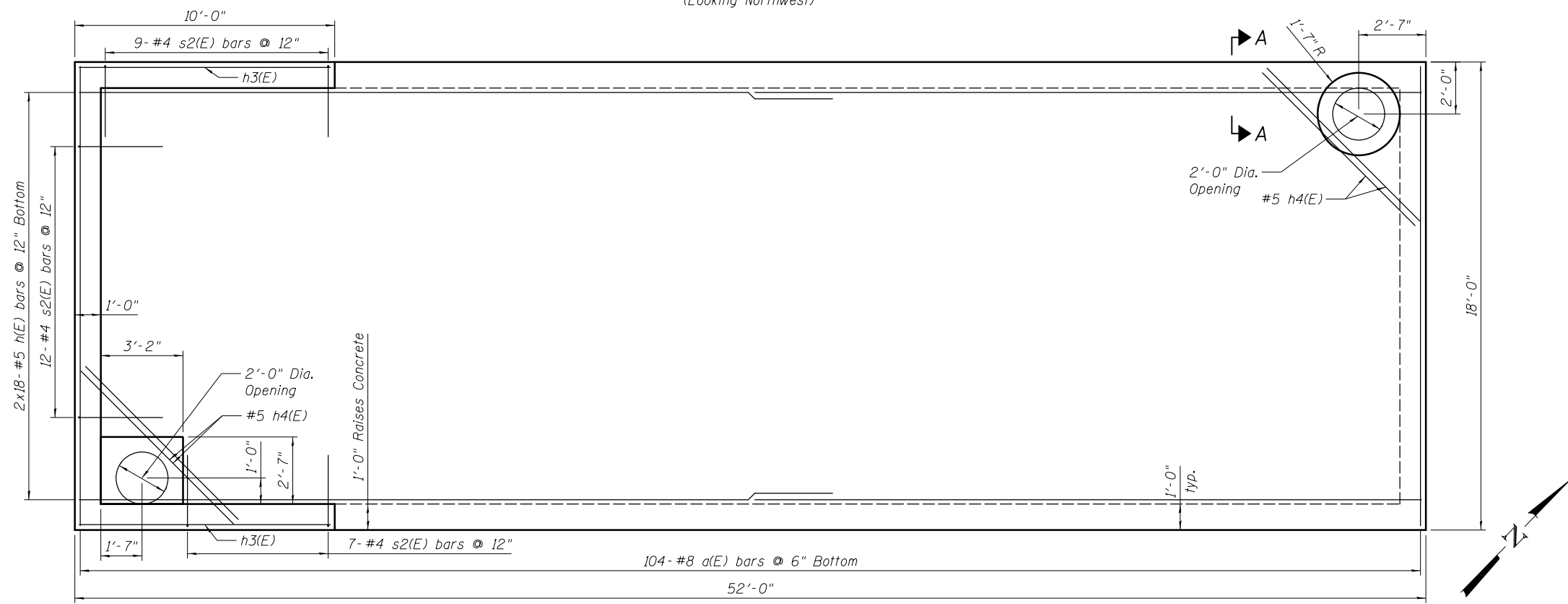
ILLINOIS FED. AID PROJECT



**ELEVATION**  
(Looking Northwest)



Notes:  
 North ladder shown. South ladder similar.  
 Space reinforcement to miss ladder rungs.



**TOP PLAN**

**BILL OF MATERIAL**

Item	Unit	Quantity
Frames and Lids, Type 1, Open Lid	Each	2
Cast Iron Steps	Each	12

FILENAME: F:\3-1296\_IL\_S&S\DRAWINGS\CADD\Sheets\2020\2020-60J13-003\_Top.dgn



USER NAME = tborges	DESIGNED -	REVISED
PLOT SCALE = N/A	CHECKED -	REVISED
PLOT DATE = 10/6/2017	DRAWN -	REVISED
	CHECKED -	REVISED

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

**TOP PLAN & ENDS**  
**FLOODWAY COMPENSATORY CHAMBER**

SHEET NO. S3 OF S4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	98
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				





wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

### BORING LOG C-1

WEI Job No.: 218-01-01

Client: **Bloom Companies, LLC**  
Project: **IL 68 over MFNB Chicago River**  
Location: **Northbrook, Cook County, IL**

Datum: NAVD 88  
Elevation: 645.20 ft  
North: 1993369.68 ft  
East: 1126269.99 ft  
Station: 19+00.9  
Offset: 22.3 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Cu (tsf)	Moisture Content (%)
644.7	6-inch thick ASPHALT --PAVEMENT--												
643.7	12-inch thick CONCRETE --PAVEMENT--												
643.2	6-inch thick CRUSHED STONE --BASE COURSE--												
642.2	stiff, gray CLAY LOAM, trace gravel		1	3 3 3	1.25	21							
640.2	--FILL--		2	2 2 3	0.75	27							
	Medium stiff, gray/black CLAY LOAM, trace gravel and roots --L <sub>1</sub> (%)=44, P <sub>L</sub> (%)=16-- --%Gravel=1.9-- --%Sand=25.0-- --%Silt=48.0-- --%Clay=25.0--		3	2 2 3	2.38	29							
	Very stiff, brown to gray SILTY CLAY, trace gravel, occasional silt/sand lenses		4	3 4 6	2.71	20							
			5	3 5 8	2.46	15							
			6	4 6 8	3.25	14							
629.7	Medium dense, gray LOAM, trace gravel --%Gravel=7.6-- --%Sand=44.7-- --%Silt=44.8-- --%Clay=2.8--		7	5 5 6	NP	14							
			8	5 7 8	NP	16							
624.7	Stiff to very stiff, gray SILTY CLAY, trace gravel		9	5 5 10	1.80	15							
			10	4 6 8	2.13	14							
			11	3 5 6	2.71	17							
			12	4 6 9	2.87	18							
			13	6 8 9	2.21	18							
			14	5 6 7	1.89	20							
			15	4 7 7	2.21	19							
			16	7 8 11	2.13	18							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-17-2013	Complete Drilling	05-17-2013	While Drilling	▽	Dry	
Drilling Contractor	WTS	Drill Rig	Mobil B-57	At Completion of Drilling	▽	Dry	
Driller	K & K	Logger	D. Kolpacki	Checked by	M. Seyhun	Time After Drilling	N/A hours
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled with bentonite chips and cuttings, and pavement patched			Depth to Water	▽	N/A ft	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			



wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

### BORING LOG C-2

WEI Job No.: 218-01-01

Client: **Bloom Companies, LLC**  
Project: **IL 68 over MFNB Chicago River**  
Location: **Northbrook, Cook County, IL**

Datum: NAVD 88  
Elevation: 644.90 ft  
North: 1993365.79 ft  
East: 1126497.06 ft  
Station: 21+28.9  
Offset: 24.6 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Cu (tsf)	Moisture Content (%)
644.2	9-inch thick ASPHALT --PAVEMENT--												
643.4	9-inch thick CONCRETE --PAVEMENT--												
642.9	6-inch thick CRUSHED STONE --BASE COURSE--												
641.9	stiff, gray CLAY LOAM, trace gravel		1	5 7 3	0.50	13							
	--FILL--		2	2 2 3	0.50	28							
	Medium stiff, black to gray CLAY LOAM, trace gravel and roots --L <sub>1</sub> (%)=43, P <sub>L</sub> (%)=13-- --%Gravel=1.2-- --%Sand=36.1-- --%Silt=33.5-- --%Clay=29.1--		3	2 2 2	0.75	28							
636.4	Loose to medium dense, gray SILT, trace gravel --%Gravel=0-- --%Sand=4.4-- --%Silt=92.6-- --%Clay=3.1--		4	2 3 5	NP	19							
			5	4 6 7	NP	20							
			6	5 8 9	NP	16							
628.9	Stiff to very stiff, gray SILTY CLAY, trace gravel --L <sub>1</sub> (%)=34, P <sub>L</sub> (%)=14-- --%Gravel=3.7-- --%Sand=10.8--35-- --%Silt=50.3-- --%Clay=35.2--		7	4 5 7	2.95	17							
			8	3 5 7	1.89	20							
			9	3 5 7	2.21	21							
			10	4 6 7	1.64	21							
			11	3 4 7	2.05	19							
			12	4 6 8	2.40	20							
			13	7 7 9	1.25	21							
			14	4 5 6	1.89	22							
			15	4 9 13	2.05	21							
			16	7 11 10	1.64	22							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-17-2013	Complete Drilling	05-17-2013	While Drilling	▽	16.00 ft	
Drilling Contractor	WTS	Drill Rig	Mobil B-57	At Completion of Drilling	▽	20.00 ft	
Driller	K & K	Logger	D. Kolpacki	Checked by	M. Seyhun	Time After Drilling	N/A hours
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled with bentonite chips and cuttings, and pavement patched			Depth to Water	▽	N/A ft	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

MODEL NAME - Default  
FILE NAME - F:\31256 IL 68\DRAWINGS\CADD\Sheets\01610-sfr-borlog.dgn



USER NAME = jandrews  
DESIGNED - JA  
DRAWN - JA  
PLOT SCALE = 2.0000" / 1"  
PLOT DATE = 8/23/2017

REVISOR -  
REVISION -  
CHECKED - RJO  
DATE -

REVISOR -  
REVISION -  
CHECKED -  
DATE -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	140	100
CONTRACT NO. 60J13				
ILLINOIS FED. AID PROJECT				