

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, PE (847)705-4021 SCHAUMBURG, IL

01-15-2016 LETTING ITEM 105

FOR INDEX OF SHEETS, SEE SHEET 2

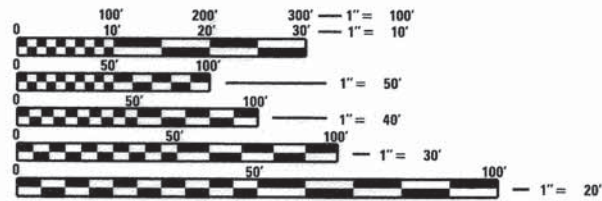
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

MUN84 (STATION BOULEVARD EXTENSION)
MERIDIAN LAKE DRIVE TO IL ROUTE 59
COMMUTER PARKING LOT MODIFICATIONS
SECTION NO. 13-00300-00-PK
PROJECT NO. CMM-4003 (287)
CITY OF AURORA
DUPAGE COUNTY
C-91-232-14

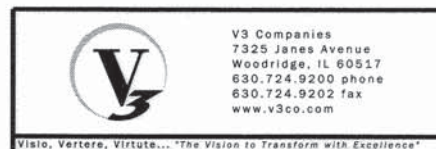
MERIDIAN LAKE DRIVE

DESIGN DESIGNATION = OFF SYSTEM
TRAFFIC VOLUME = 3,500 ADT (2014)
POSTED SPEED = 30 MPH



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.

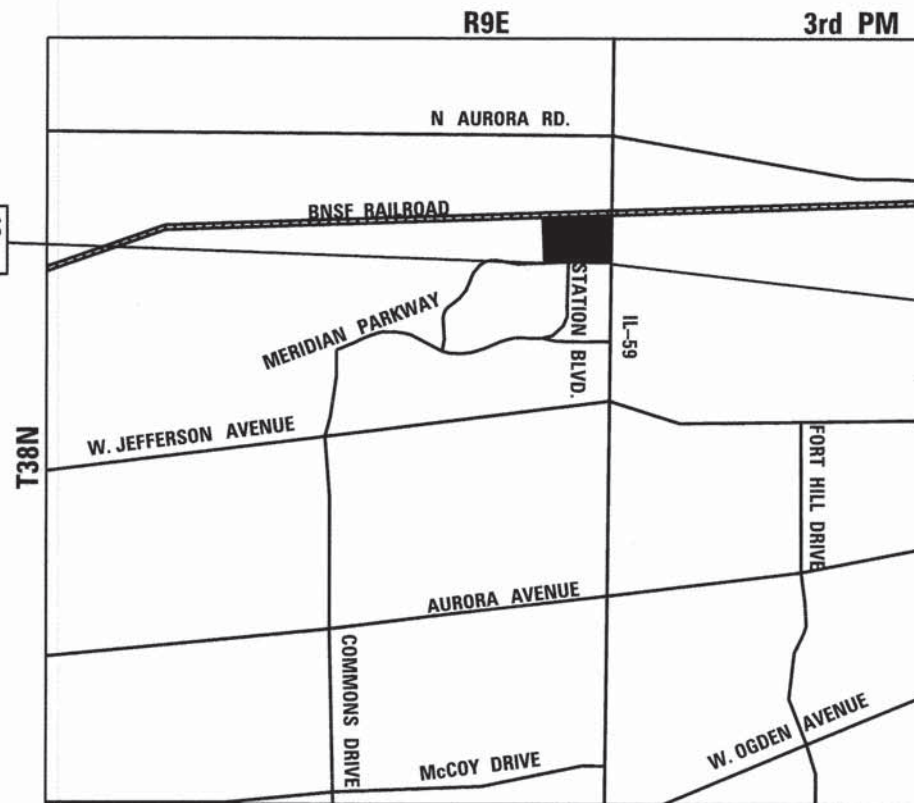
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



George J. Schöber
GEORGE J. SCHÖBER, P.E.
EXPIRES: 11-30-15
SHEETS: 1-94 & 102-107



Christopher J. Burke
CHRISTOPHER J. BURKE, S.E.
EXPIRES: 11-30-16
SHEETS: 95-101



NAPERVILLE TOWNSHIP LOCATION MAP
(NOT TO SCALE)

GROSS LENGTH = 2,112.00 FT. (0.40 MILE)
NET LENGTH = 2,112.00 FT. (0.40 MILE)

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	1
ILLINOIS CONTRACT 61B33				



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED *Kenneth Schroth*
KENNETH SCHROTH
CITY OF AURORA, DIRECTOR OF PUBLIC WORKS

PASSED *October 26, 2015*
Christopher Holt
CHRISTOPHER HOLT
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW *October 28, 2015*
John F. ...
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 61B33

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 (REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2015.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, DUPAGE COUNTY AND THE CITY OF AURORA FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR WILL NOT BE PERMITTED TO SET UP A YARD OR FIELD OFFICE ON STATE OR CITY PROPERTY WITHOUT PRIOR WRITTEN PERMISSION OF THE ENGINEER.
- PRIOR TO NEW WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND TO VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITY LINES AND STRUCTURES THAT MAY BE IMPACTED BY THE PROPOSED WORK PRIOR TO ORDERING MATERIAL OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES FROM THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES AFFECTED BY THE WORK.
- PAVEMENT AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND IN CONFORMANCE WITH IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES ETC., SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATION, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.
- ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- FULL-DEPTH OR RESURFACING SAW CUTS SHALL BE USED TO REMOVE EXISTING PAVING AND APPURTENANCES FROM MATERIAL TO REMAIN IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS. THE COST OF THE SAW CUT SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- ALL AREAS OF PLANNED SUBGRADE TREATMENT SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR. ALL POTENTIALLY UNSTABLE/ UNSUITABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL (SSM). ANY AGGREGATE SUBGRADE IMPROVEMENTS (CY) AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION QUANTITIES NOT USED DURING CONSTRUCTION SHOULD BE DELETED FROM THE CONTRACT.
- THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONARY AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN AND PROTECT EXISTING UTILITIES, SEWERS, MAINS AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR SHALL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES, SEWERS AND MAINS WHICH WILL REMAIN IN SERVICE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND UTILITY COMPANY IF IT IS DETERMINED THAT TEMPORARY BRACING OR SUPPORT OF THE UTILITIES IS REQUIRED. THE PROTECTION AND/OR TEMPORARY BRACING OR SUPPORT OF UTILITIES 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.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BNSF RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

DRAINAGE AND UTILITIES GENERAL NOTES:

- EXISTING MANHOLE / CATCH BASIN RIMS SHALL BE ADJUSTED AS NOTED.
- ALL SEWER AND WATERMAIN CROSSINGS SHALL MEET WITH THE APPLICABLE LOCAL AND STATE GUIDELINES AS DESCRIBED IN THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- THE CONTRACTOR SHALL COORDINATE THE PROPOSED STORM SEWER CONSTRUCTION WITH ALL OTHER UTILITY ADJUSTMENTS AND INSTALLATIONS AS APPROVED BY THE ENGINEER.
- UNDERGROUND UTILITIES AND DRAINAGE SYSTEMS SHOWN ON THE PLANS ARE BASED ON AVAILABLE SURVEYS AND AS-BUILT INFORMATION. THE LOCATION OF UNDERGROUND FACILITIES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO VERIFY ALL UTILITY LOCATION AND DEPTHS.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN ALL SURFACE DRAINAGE WITHIN THE PROJECT LIMITS. ALL STORM FLOW MUST BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- ANY EXISTING DRAINAGE FACILITIES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE. THIS WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER.
- ALL STORM SEWERS ARE RCP UNLESS OTHERWISE NOTED.
- OFFSETS AND TOP OF FRAME OR LID ELEVATIONS FOR STRUCTURES LOCATED IN THE GUTTER ARE GIVEN AT THE EDGE OF PAVEMENT.
- THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE STORM SEWER BEING CONNECTED.
- THE EXISTING STORM SEWER TO REMAIN SHALL BE INSPECTED BY THE CONTRACTOR BEFORE CONSTRUCTION STARTS. ANY EXISTING ACCUMULATED MATERIAL SHALL BE DOCUMENTED BY THE CONTRACTOR. ANY UNDOCUMENTED ACCUMULATION OF MATERIAL FOUND IN THE STRUCTURES OR PIPES AFTER CONSTRUCTION IS COMPLETED SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY AND STORM SEWER OPERATIONS. THE COST OF COMPLIANCE WITH THE ABOVE, SHALL BE INCLUDED IN THE COST OF THE UTILITY BEING INSTALLED.
- TOP OF FRAME ("RIM") ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS PART OF THE STRUCTURE COST.

LIST OF ILLINOIS HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-02	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESSED CORNER FOR SIDEWALKS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN, TYPE C
602301-04	INLET, TYPE A
602401-03	MANHOLE, TYPE A
604001-04	FRAME AND LIDS, TYPE 1
604051-04	FRAME AND GRATE, TYPE 11
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
664001-02	CHAIN LINK FENCE
701006-05	OFF-ROAD OPERATIONS, 2L, 2W 15' TO 24' FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24' FROM EDGE OF PAVEMENT
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-05	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES

LIST OF DISTRICT ONE STANDARDS

BD-36	FIRE HYDRANT TO BE MOVED
BE-301	LIGHT POLE FOUNDATION, CONCRETE, 40' TO 47 1/2' M.H., 15" BOLT CIRCLE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-02	MAST ARM MOUNTED STREET NAME SIGNS
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS

INDEX OF SHEETS:

1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, AND HIGHWAY STANDARDS
3 - 5	SUMMARY OF QUANTITIES
6	PAVEMENT TYPICAL SECTIONS AND ISLAND DETAILS
7	PROPOSED TYPICAL SECTION AND MEDIAN ISLAND AND CURB CUT DETAILS
8	ALIGNMENT, TIES, AND BENCHMARKS
9 - 15	EXISTING CONDITIONS PLANS
16 - 22	REMOVAL PLANS
23 - 29	LAYOUT PLANS
30 - 36	GRADING PLANS
37 - 43	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
44	TEMPORARY OFF SITE PARKING MAP
45	EROSION AND SEDIMENT CONTROL NOTES
46 - 47	EROSION AND SEDIMENT CONTROL PLANS
48	EROSION AND SEDIMENT CONTROL DETAILS
49 - 55	DRAINAGE AND UTILITY PLANS
56 - 57	PAVEMENT MARKING PLANS
58 - 64	LANDSCAPING PLANS
65	PLANTING PLAN
66 - 70	TRAFFIC SIGNAL PLANS AND INTERCONNECT PLANS
71 - 77	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
78	MAST ARM MOUNTED STREET NAME SIGNS
79 - 81	TRAFFIC SIGNAL MAST ARM AND POLE DETAILS
82 - 83	TEMPORARY LIGHTING PLANS
84 - 85	LIGHTING PLANS
86	WIRING DIAGRAM AND NOTES
87	LIGHTING AND ELECTRICAL DETAILS
88	LIGHT POLE FOUNDATION DETAILS
89 - 91	STREET LIGHT POLE AND LUMINAIRE ARM DETAILS
92 - 93	SECURITY CAMERA AND COMMUNICATION LAYOUT
94	SECURITY CAMERA AND COMMUNICATION DETAILS
95 - 101	BOX CULVERT PLANS AND DETAILS
102 - 107	DETAILS

FILE NAME =	USER NAME = bhart	DESIGNED - HS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES, AND HIGHWAY STANDARDS		MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
E:\2005\05086\05086.AUR.PH1\Drawings\M	DRN\CADD Sheets\0105086.AUR.PH1\shd2-genna	DRAWN - HS	REVISED -				0084	13-00300-00-PK	DUPAGE	107	2	
PLOT SCALE = 1'		CHECKED - JH	REVISED -		SCALE: N.T.S.		SHEET 1 OF 1 SHEETS		STA.	TO STA.	CONTRACT NO. 61B33	
PLOT DATE = 11/16/2015		DATE - 10-09-15	REVISED -		ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 0004	ROADWAY 0% FEDERAL 100% LOCAL 0043
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,007	1,007	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	36	
20200100	EARTH EXCAVATION	CU YD	12,965	12,965	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,427	2,427	
20800150	TRENCH BACKFILL	CU YD	387	387	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2,844	2,844	
* 25000110	SEEDING, CLASS 1A	ACRE	2.37	2.37	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	213	213	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	213	213	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	213	213	
* 25100115	MULCH, METHOD 2	ACRE	2.37	2.37	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	237	237	
28000400	PERIMETER EROSION BARRIER	FOOT	3,715	3,715	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28000510	INLET FILTERS	EACH	104	104	
28001100	TEMPORARY EROSION CONTROL BLANKET	SO YD	10,684	10,684	
28100101	STONE RIPRAP, CLASS A1	SO YD	194	194	
28100105	STONE RIPRAP, CLASS A3	SO YD	194	194	
28100107	STONE RIPRAP, CLASS A4	SO YD	66	66	
28200200	FILTER FABRIC	SO YD	126	126	
30201700	PORTLAND CEMENT	TON	762	762	
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SO YD	6,039	6,039	
35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	4,996	4,996	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SO YD	25,724	25,724	
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SO YD	148	148	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	76,175	76,175	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	9,292	9,292	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	7,496	7,496	
42000301	PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8"	SO YD	2,704	2,704	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	28,286	28,286	
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SO FT	833	833	
44000100	PAVEMENT REMOVAL	SO YD	12,357	12,357	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	14,007	14,007	
44000600	SIDEWALK REMOVAL	SO FT	21,298	21,298	
50105220	PIPE CULVERT REMOVAL	FOOT	61	61	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	
54011206	PRECAST CONCRETE BOX CULVERT 12'X6'	FOOT	258	258	

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 0004	ROADWAY 0% FEDERAL 100% LOCAL 0043
542C0211	PIPE CULVERTS, CLASS C, TYPE 1 6"	FOOT	6	6	
542C0217	PIPE CULVERTS, CLASS C, TYPE 1 12"	FOOT	201	201	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	351	351	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	613	613	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	137	137	
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	150	150	
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	14	14	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5	5	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1	
54213867	STEEL END SECTION 12"	EACH	2	2	
55100200	STORM SEWER REMOVAL 6"	FOOT	78	78	
55100300	STORM SEWER REMOVAL 8"	FOOT	25	25	
55100500	STORM SEWER REMOVAL 12"	FOOT	638	638	
55100900	STORM SEWER REMOVAL 18"	FOOT	156	156	
55101200	STORM SEWER REMOVAL 24"	FOOT	117	117	
56400100	FIRE HYDRANTS TO BE MOVED	EACH	1		1
60100080	FRENCH DRAINS	CU YD	17	17	
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SO YD	180	180	
60107700	PIPE UNDERDRAIN, 6"	FOOT	461	461	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE I FRAME, OPEN LID	EACH	3	3	
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE II FRAME AND GRATE	EACH	2	2	
60206905	CATCH BASINS, TYPE C, TYPE I FRAME, OPEN LID	EACH	2	2	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE I FRAME, OPEN LID	EACH	3	3	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE I FRAME, CLOSED LID	EACH	3	3	
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE II FRAME AND GRATE	EACH	5	5	
60224445	MANHOLES, TYPE A, 7'-DIAMETER, TYPE I FRAME, OPEN LID	EACH	1	1	
60234200	INLETS, TYPE A, TYPE I FRAME, OPEN LID	EACH	4	4	
60236800	INLETS, TYPE A, TYPE II FRAME AND GRATE	EACH	7	7	
60404800	FRAMES AND GRATES, TYPE II	EACH	1	1	
60406000	FRAMES AND LIDS, TYPE I, OPEN LID	EACH	35	35	
60406100	FRAMES AND LIDS, TYPE I, CLOSED LID	EACH	22	22	
60500040	REMOVING MANHOLES	EACH	2	2	
60500050	REMOVING CATCH BASINS	EACH	12	12	
60500060	REMOVING INLETS	EACH	17	17	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	11,190	11,190	

* SPECIALTY ITEM

FILE NAME = E:\2005\050806\050806.AUR.PH11\Drawings\Map\CAAD Sheets\01050806.AUR.PH11-sh03-soq01.dwg	USER NAME = bhert	DESIGNED - EIH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
93-S0081	PLOT SCALE = 2'	CHECKED - JH	REVISED -					0084	13-00300-00-Pk	DUPAGE	107	3
	PLOT DATE = 10/16/2015	DATE - 10-09-15	REVISED -		SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.			CONTRACT NO. 61B33				
										ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 004 3
* 63200310	GUARDRAIL REMOVAL	FOOT	95	95	
* 66400105	CHAIN LINK FENCE, 4'	FOOT	60	60	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CY YD	200	200	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MQ	10	10	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MQ	9	9	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	608	608	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18,146	18,146	
72000100	SIGN PANEL - TYPE 1	SO FT	308	308	
72300100	INSTALL EXISTING SIGN PANEL	SO FT	80	80	
72900100	METAL POST - TYPE A	FOOT	1,469	1,469	
72900200	METAL POST - TYPE B	FOOT	26	26	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	916	916	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	71,191	71,191	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,547	1,547	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,273	1,273	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	304	304	
78300100	PAVEMENT MARKING REMOVAL	SO FT	947	947	
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	3	3	
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1	1	
* 80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1	1	
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	492	492	
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	185	185	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	362	362	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	890	890	
* 81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	3,121		3,121
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1,436	38	1,398
* 81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	1,027	487	540
* 81400100	HANDHOLE	EACH	8	8	
* 81400300	DOUBLE HANDHOLE	EACH	2	2	
* 81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	6		6
* 81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	3	3	
* 81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	419	419	
* 81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	628	628	
* 81603047	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	734	734	
* 81603063	UNIT DUCT, 600V, 4-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2,308	2,308	
* 81603065	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1,252	1,252	

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 004 3
* 81603072	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1,200	1,200	
* 81603100	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2,569	2,569	
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	405	405	
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	68	68	
* 81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	114	114	
* 83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	57	57	
* 84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	29	29	
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	29	29	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
* 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	20	20	
* 87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3,739	3,739	
* 87100110	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6F	FOOT	9,322		9,323
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	8,818	3,760	5,058
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,870	3,870	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,402	3,402	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,663	4,663	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,595	1,595	
* 87301305	ELECTRIC CABLE IN CONDUIT LEAD-IN, NO 14, 1-PAIR	FOOT	395	395	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	484	484	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,574	1,574	
* 87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	7	7	
* 87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	9	9	
* 87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	4	4	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	64	64	
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4	
* 87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	24	24	
* 87900200	DRILL EXISTING HANDHOLE	EACH	6	6	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	6	
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9	9	
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4	4	
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4	4	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12	12	
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10	10	
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	1	1	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	243	243	
* 88700200	LIGHT DETECTOR	EACH	2	2	
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1	

* SPECIALTY ITEM

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04-50082

USER NAME : bhert
CADD Sheets\0185086.AUR_PHI-sh184-soq82.dwg
PLOT SCALE : 2"
PLOT DATE : 10/16/2015

DESIGNED - EIH
DRAWN - EIH
CHECKED - JH
DATE - 10-09-15

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	4
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

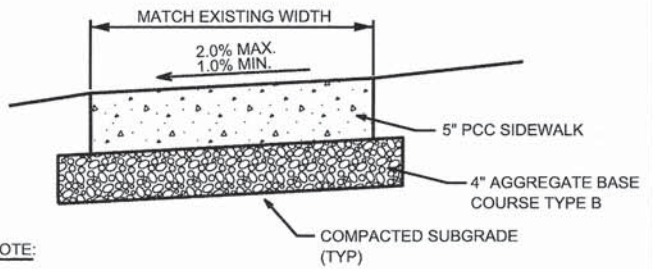
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 004
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	12	12	
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	23,205	23,205	
• 89502380	REMOVE EXISTING HANDHOLE	EACH	1	1	
• K0013030	PERENIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" PLUG	UNIT	14,25	14,25	
• K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	24	24	
• X0322283	VIDEO SURVEILLANCE SYSTEM COMPLETE	EACH	1		1
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	10	10	
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	4	4	
X0323569	STEEL POST REMOVAL	EACH	101	101	
X0323868	DRAINAGE RESTRICTOR	EACH	1	1	
• X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	364	364	
• X0326266	ETHERNET SWITCH	EACH	1	1	
• X0326773	MODIFY EXISTING TRAFFIC SIGNAL POST FOUNDATION	EACH	4	4	
• X0326784	MAINTAIN EXISTING LIGHTING CONTROLLER	EACH	1	1	
• X0326885	VIDEO DETECTION SYSTEM	EACH	1	1	
X0326861	PULVERIZATION	SQ YD	37,308	37,308	
X0327146	RELOCATE BIKE RACK	EACH	6	6	
• X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4	4	
X0327726	MEMBRANE WATERPROOFING FOR CULVERTS	SQ YD	440	440	
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	300	300	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	21,797	21,797	
X6022905	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	EACH	1	1	
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	59	59	
X6040205	FRAMES AND LIDS, SPECIAL	EACH	12	12	
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1	1	
• X8211125	LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	8	8	
• X8300001	LIGHT POLE, SPECIAL	EACH	6	6	
• X8360210	LIGHT POLE FOUNDATION, 24" DIAMETER, SPECIAL	FOOT	468	414	54
• X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1	
• X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1	
• X8730320	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 20 3/C, TWISTED, SHIELDED	FOOT	145	145	
• X8770127	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1	1	
• X8770135	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	2	2	
• X8770142	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. (SPECIAL)	EACH	1	1	
• X8950090	RELOCATE EXISTING LIGHTING CONTROLLER	EACH	2	2	
• X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	1	1	
• X8950425	REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT	L SUM	1		1

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 004
• XX003584	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	145	145	
• XX006144	SEEDING, MESIC PRAIRIE	ACRE	0.80	0.80	
• XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1	1	
• XX007765	WETLAND MITIGATION PLANT / SEEDING MIX	ACRE	0.39	0.39	
• XX008608	CABLE, SPECIAL	FOOT	437		437
XX008686	BIKE SHELTER	EACH	1	1	
Z0004002	BOLLARDS	EACH	36	36	
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	500	500	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	64	64	
• Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9	9	
• Z0033046	RE-OPTIMIZED TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2	2	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Z0051398	REMOVE EXISTING SIGN POST	EACH	70	70	
Z0062456	TEMPORARY PAVEMENT	SQ YD	148	148	
• XX009077	FULL DEPTH RECLAMATION (FDR) WITH CEMENT	SQ YD	22,489	22,489	
• XX009020	LUMINAIRE, LED, TYPE 3, SPECIAL	EACH	2	2	
• XX009021	LUMINAIRE, LED, TYPE 4, SPECIAL	EACH	22	22	
• XX009022	LUMINAIRE, LED, TYPE 5, SPECIAL	EACH	66	66	
• XX009023	LIGHT POLE, ALUMINUM, 20 FT., SPECIAL	EACH	8	2	6
• XX009024	LIGHT POLE, ALUMINUM, 39 FT., SPECIAL	EACH	33	33	
Δ Z0076600	TRAINEES	Hour	1,000	1,000	
Δ Z0076604	TRAINEES TRAINING PROGRAM	Hour	1,000	1,000	

* SPECIALTY ITEM Δ = 0042 (TRAINEES)

FILE NAME = E:\2005\05086\05086.AUR.PHI\Drawings\...	USER NAME = #USER#	DESIGNED - EIH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - EIH	REVISED -		0084	13-00300-00-PK	DUPAGE	107	5				
	PLOT SCALE = #SCALE#	CHECKED - JH	REVISED -		SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.				CONTRACT NO. 61B33				
#MODELNAME#	PLOT DATE = 11/13/2015	DATE - 10-09-15	REVISED -		ILLINOIS FED. AID PROJECT								

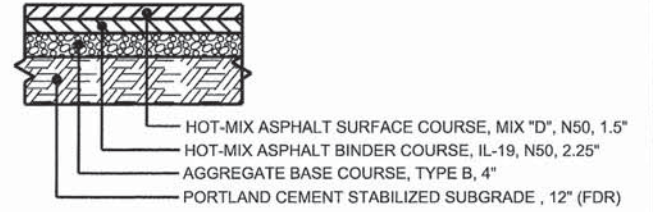


NOTE:
1. MAXIMUM LONGITUDINAL SLOPE = 5.0%
MINIMUM LONGITUDINAL SLOPE = 0.5%

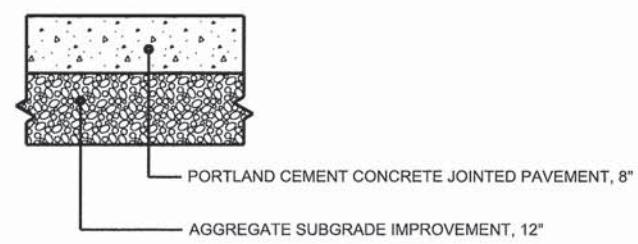
PROPOSED CONCRETE SIDEWALK



EXISTING PARKING LOT PAVEMENT OVERLAY



PROPOSED FULL DEPTH PARKING LOT PAVEMENT (STABILIZED SUBGRADE)



PROPOSED DRIVEWAY AND BUS PAD PAVEMENT



PROPOSED MAIN ENTRANCE DRIVE PAVEMENT



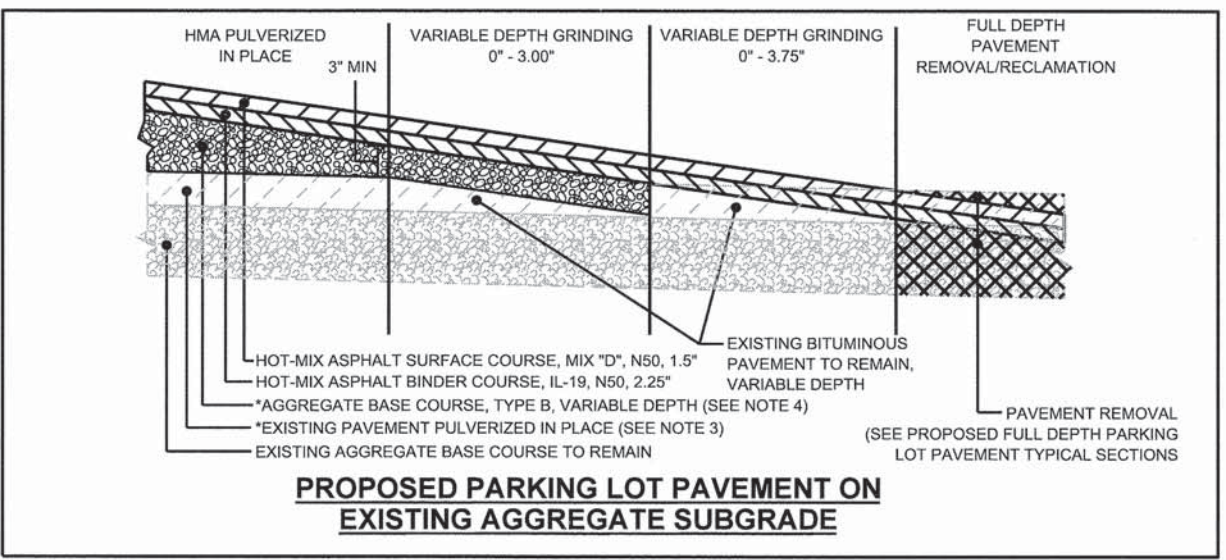
PROPOSED FULL DEPTH PARKING LOT PAVEMENT (AGGREGATE SUBGRADE IMP.)

PAVEMENT TYPICAL SECTIONS

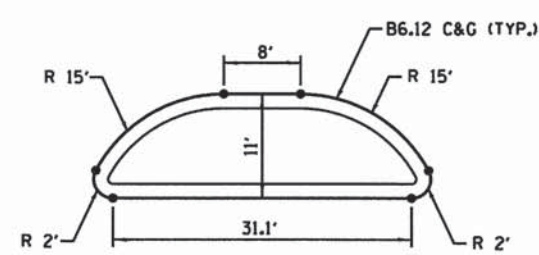
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"	4% @ 50 Gyr.
FULL-DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"	4% @ 50 Gyr.
MAIN ENTRANCE DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, HMA BINDER IL-19.0, N50; 4"	4% @ 50 Gyr.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, HMA BINDER IL-19.0, N50; 8"	4% @ 50 Gyr.

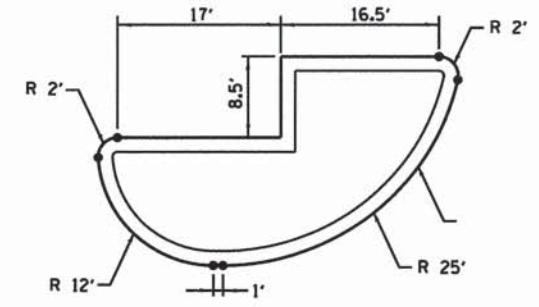
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
- THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.
- EXISTING BITUMINOUS PAVEMENT TO REMAIN SHALL BE PULVERIZED.
- IN AREAS WITH AGGREGATE BASE COURSE, TYPE B EXCEEDING 10" OF DEPTH, SUITABLE FILL FROM PREVIOUS EARTH EXCAVATION MAY BE USED UNDER THE 10" OF AGGREGATE BASE COURSE, TYPE B TO ACHIEVE THE PROPOSED GRADES.
- PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS, PCC PAVEMENT 8" THICK. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.



PROPOSED PARKING LOT PAVEMENT ON EXISTING AGGREGATE SUBGRADE



ISLAND A



ISLAND B

ISLAND DETAILS

EARTHWORK, TOPSOIL, AND AGGREGATE FILL SCHEDULE

QUANTITY (CY)	MOT STAGE					
	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6
EARTH EXCAVATION (20200100)	6860	946	974	1012	1209	1964
EARTH EXCAVATION PLACED ON SITE	4664	959	750	470	1161	27
EARTHWORK HAUL-OFF	2196	(13)	224	542	48	1937
TOPSOIL EXCAVATION AND PLACEMENT (21101505)	2055	184	79	89	231	206
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS (20201200)(TOPSOIL HAUL-OFF)	528	472	537	350	166	374
AGGREGATE BASE COURSE, TYPE B (35101500)	676	556	547	1276	1941	0

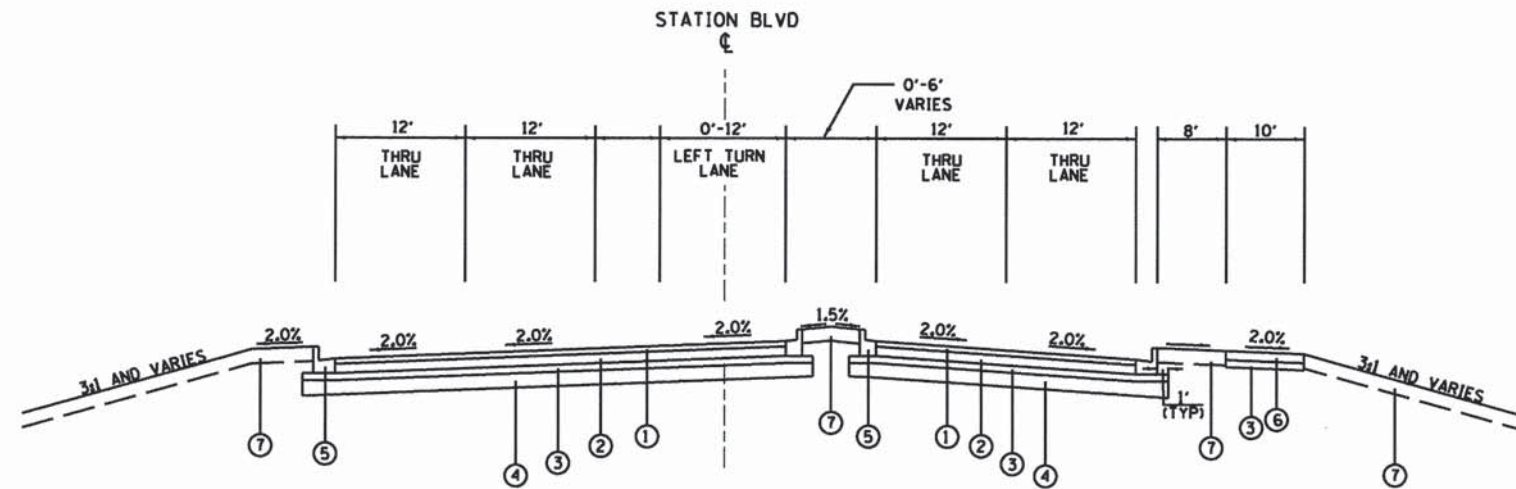


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PLOT SCALE = 48"	DRAWN - HS	REVISED -
PLOT DATE = 10/27/2015	CHECKED - JH	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT TYPICAL SECTIONS
AND ISLAND DETAILS
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

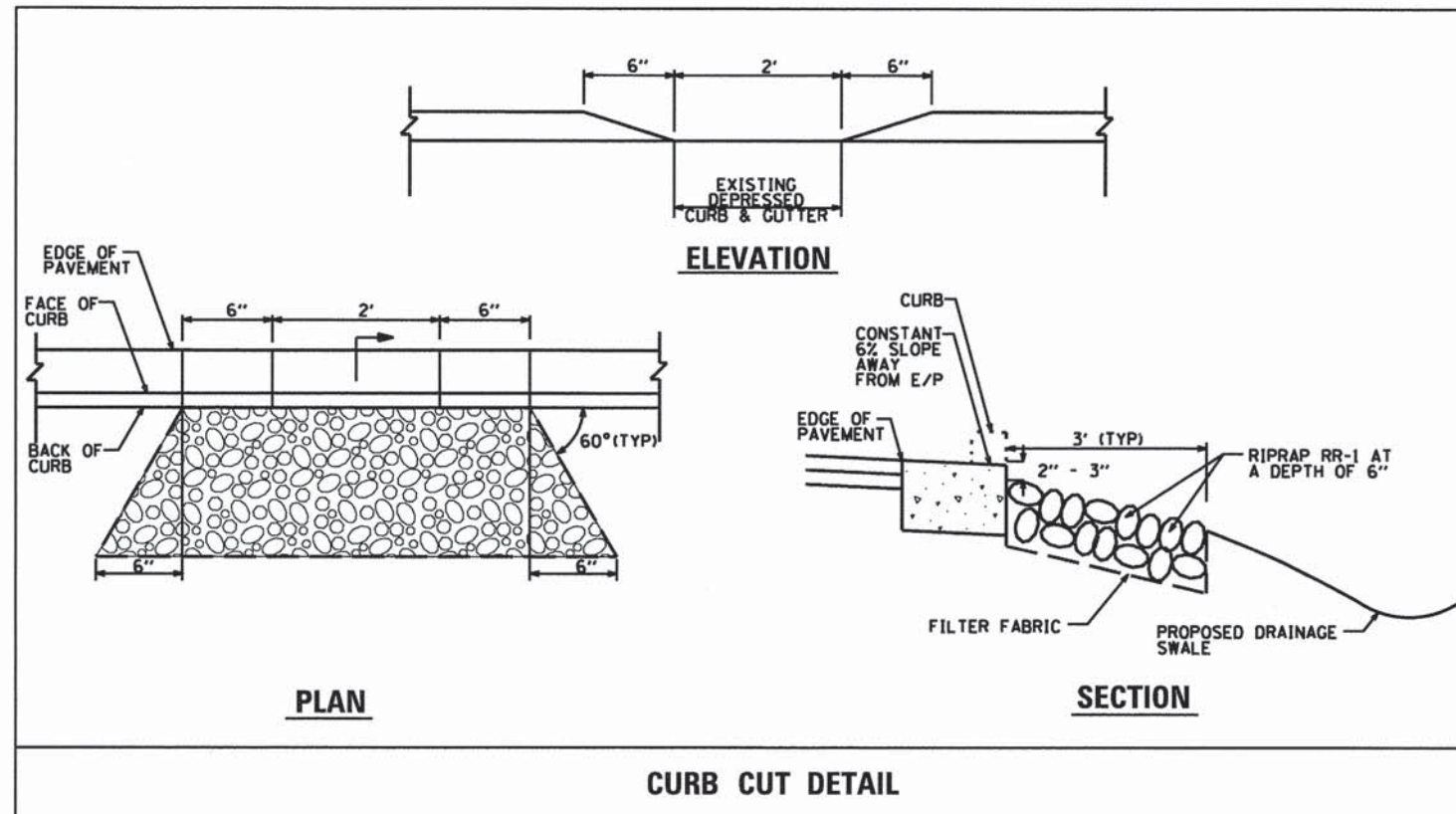
MUN 0084	SECTION 13-00300-00-PK	COUNTY DUPAGE	TOTAL SHEETS 107	SHEET NO. 6
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



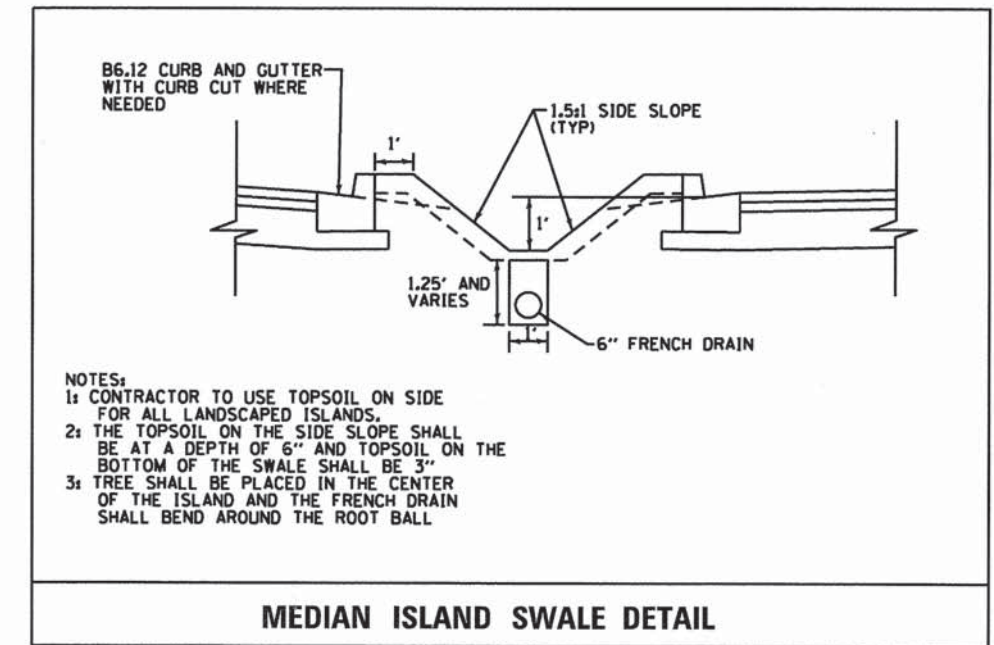
PROPOSED LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
- ③ AGGREGATE BASE COURSE, TYPE B, 4"
- ④ PORTLAND CEMENT STABILIZED SUBGRADE, 12"
- ⑤ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑥ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑦ TOPSOIL EXCAVATION AND PLACEMENT (SEE LANDSCAPE PLANS FOR DEPTHS AND PLANT MATERIAL)

**PROPOSED TYPICAL SECTION
STA 30+20.75 TO STA 33+00.00 STATION BOULEVARD**



CURB CUT DETAIL



NOTES:

- 1: CONTRACTOR TO USE TOPSOIL ON SIDE FOR ALL LANDSCAPED ISLANDS.
- 2: THE TOPSOIL ON THE SIDE SLOPE SHALL BE AT A DEPTH OF 6" AND TOPSOIL ON THE BOTTOM OF THE SWALE SHALL BE 3"
- 3: TREE SHALL BE PLACED IN THE CENTER OF THE ISLAND AND THE FRENCH DRAIN SHALL BEND AROUND THE ROOT BALL

MEDIAN ISLAND SWALE DETAIL



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

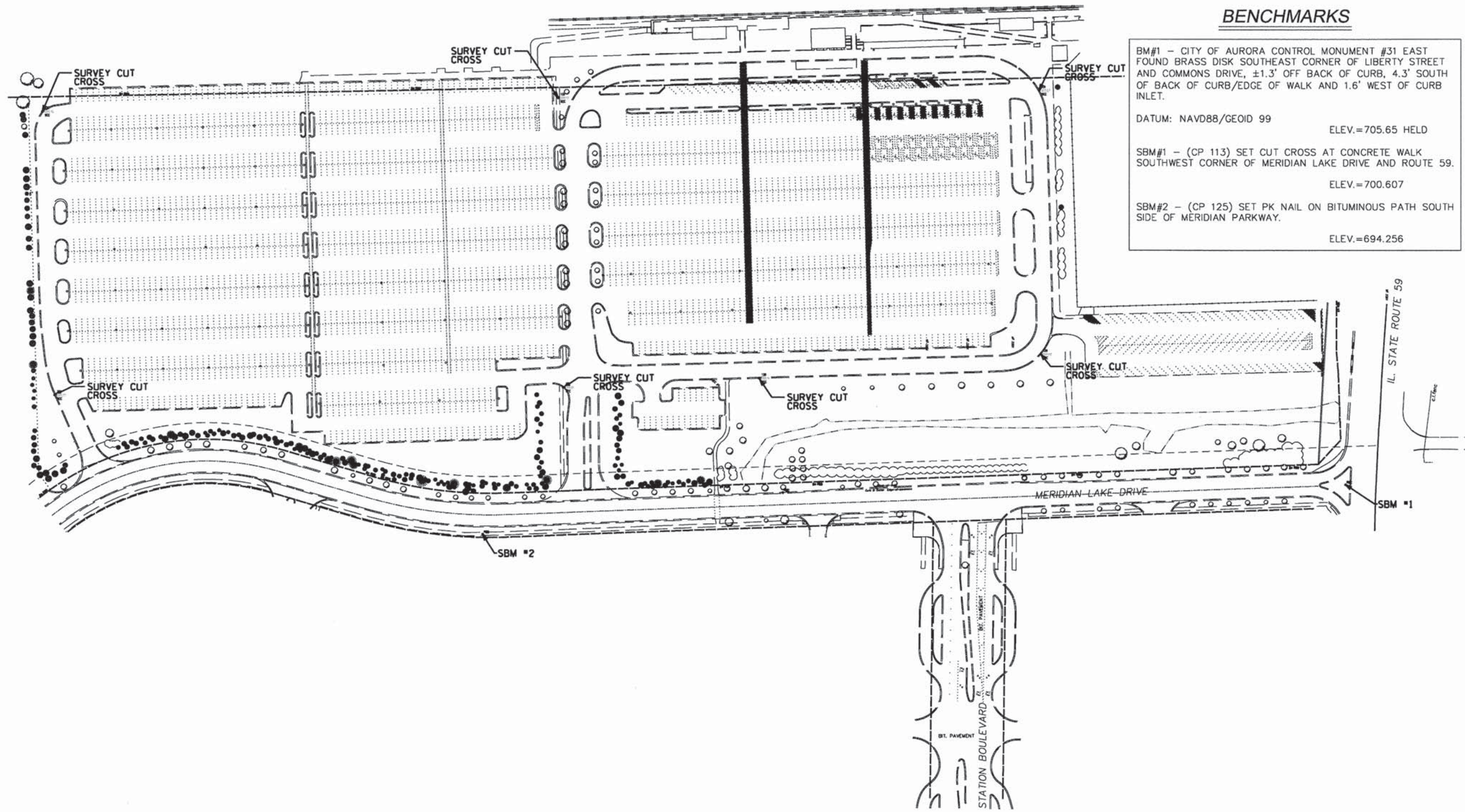
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PLOT SCALE = 48'	DRAWN - HS	REVISED -
PLOT DATE = 10/12/2015	CHECKED - JH	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTION AND
MEDIAN ISLAND AND CURB CUT DETAILS**

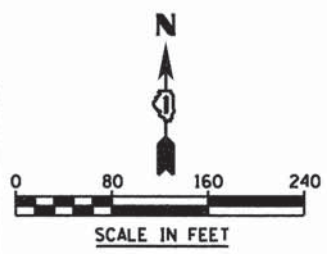
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	7
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



BENCHMARKS

BM#1 - CITY OF AURORA CONTROL MONUMENT #31 EAST FOUND BRASS DISK SOUTHEAST CORNER OF LIBERTY STREET AND COMMONS DRIVE, ±1.3' OFF BACK OF CURB, 4.3' SOUTH OF BACK OF CURB/EDGE OF WALK AND 1.6' WEST OF CURB INLET.
 DATUM: NAVD88/GEOID 99 ELEV.=705.65 HELD
 SBM#1 - (CP 113) SET CUT CROSS AT CONCRETE WALK SOUTHWEST CORNER OF MERIDIAN LAKE DRIVE AND ROUTE 59.
 ELEV.=700.607
 SBM#2 - (CP 125) SET PK NAIL ON BITUMINOUS PATH SOUTH SIDE OF MERIDIAN PARKWAY.
 ELEV.=694.256



V3 Companies
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 Woodridge, IL 60517
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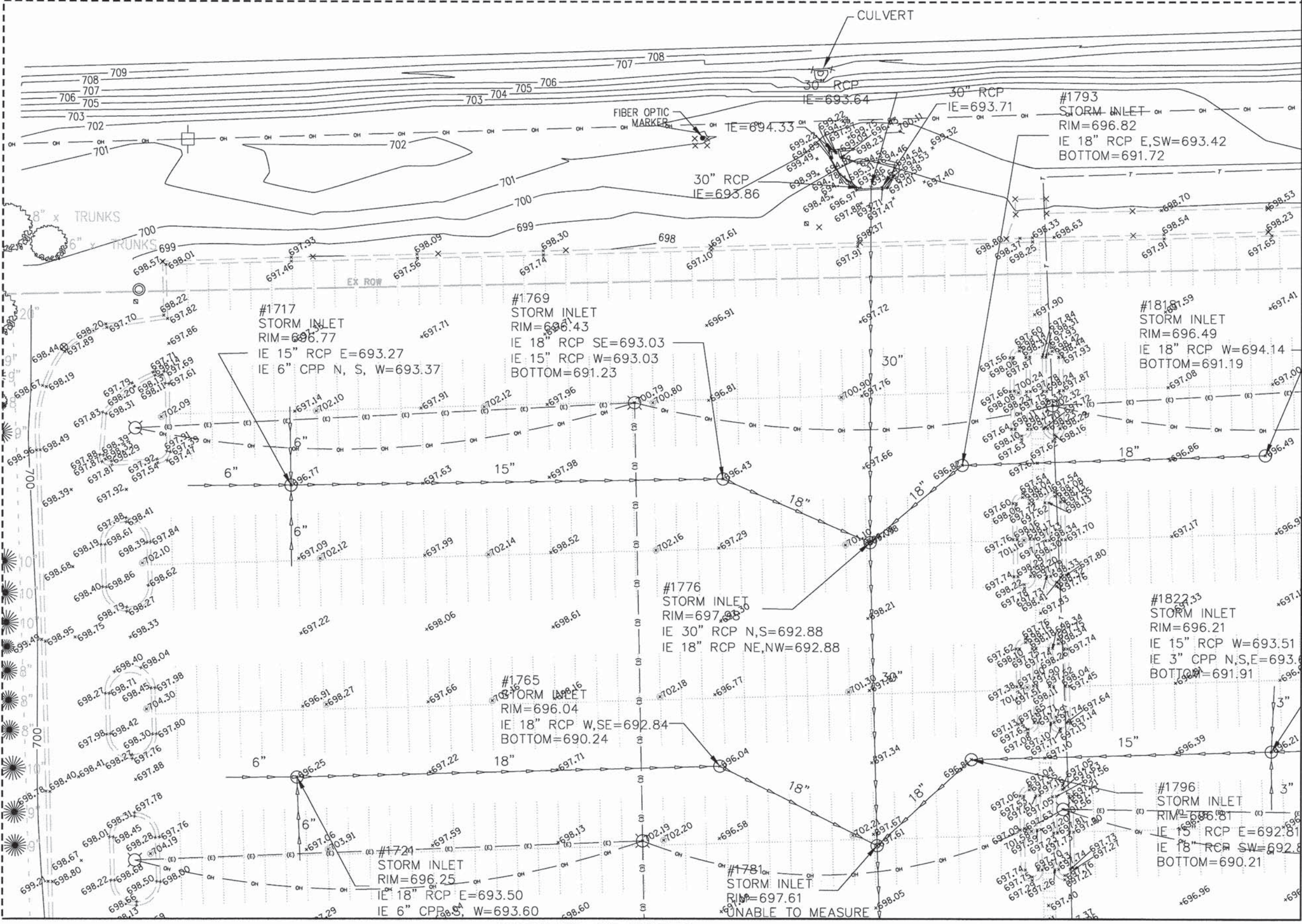
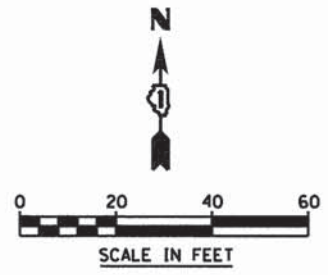
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PLOT DATE = 10/9/2015	CHECKED - JH	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, AND BENCHMARKS

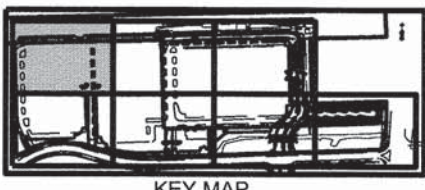
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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	8
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



MATCH LINE SEE SHEET 10

MATCH LINE SEE SHEET 12



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = bhart
DESIGNED - JH
DRAWN - HS
CHECKED - MJR
DATE - 10-09-15

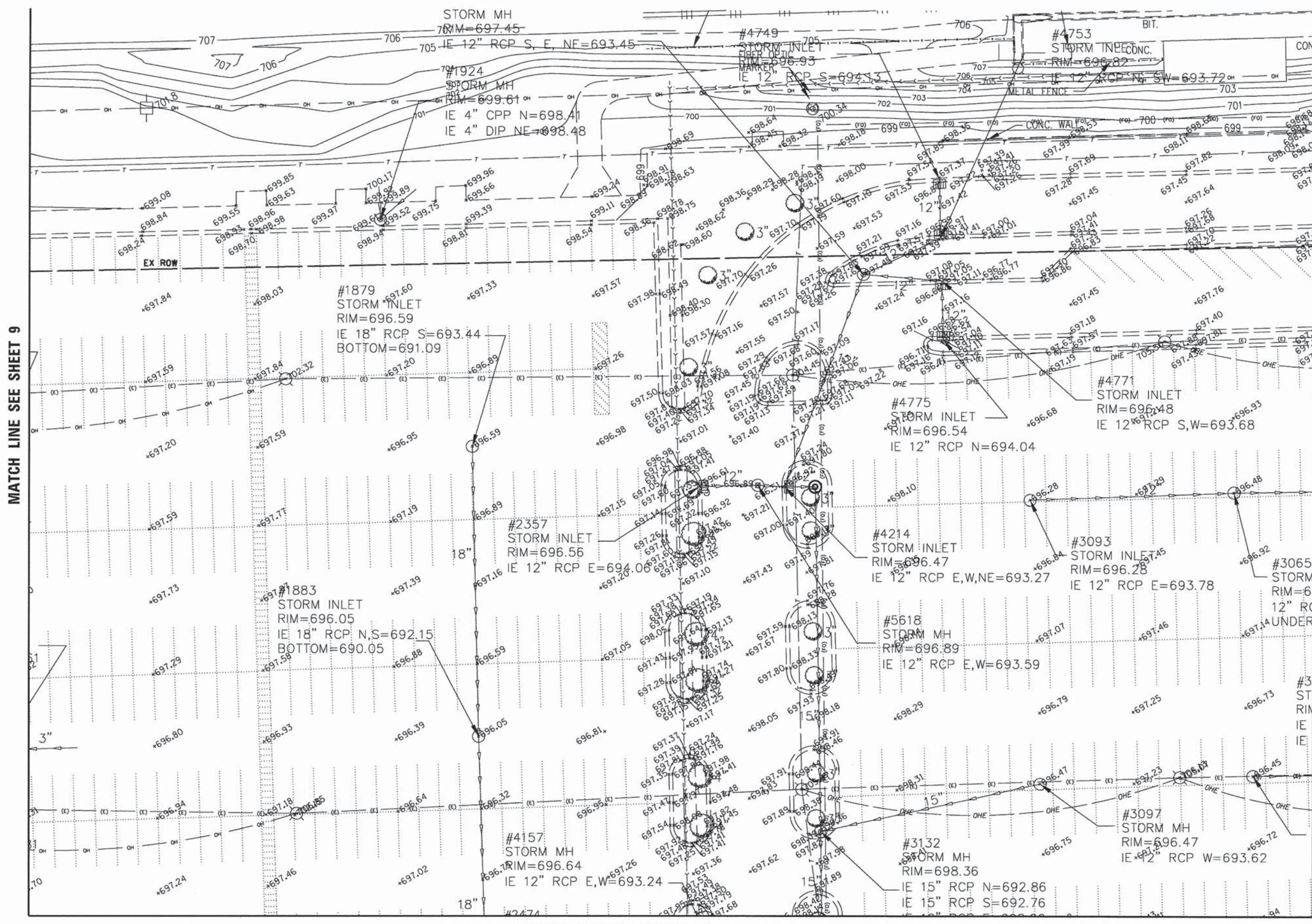
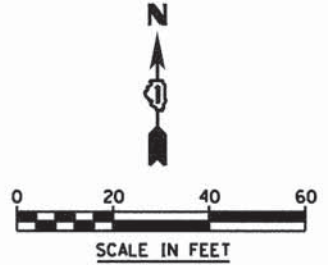
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING CONDITIONS

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

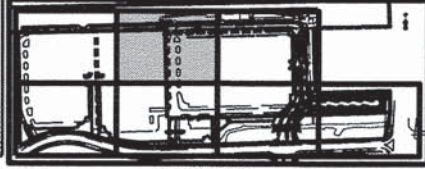
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	9
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



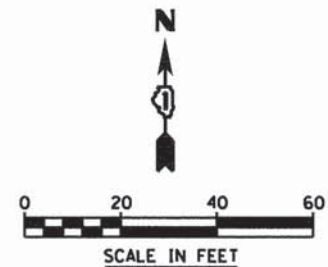
MATCH LINE SEE SHEET 9

MATCH LINE SEE SHEET 11

MATCH LINE SEE SHEET 13

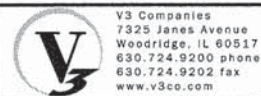
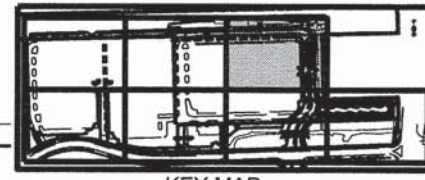
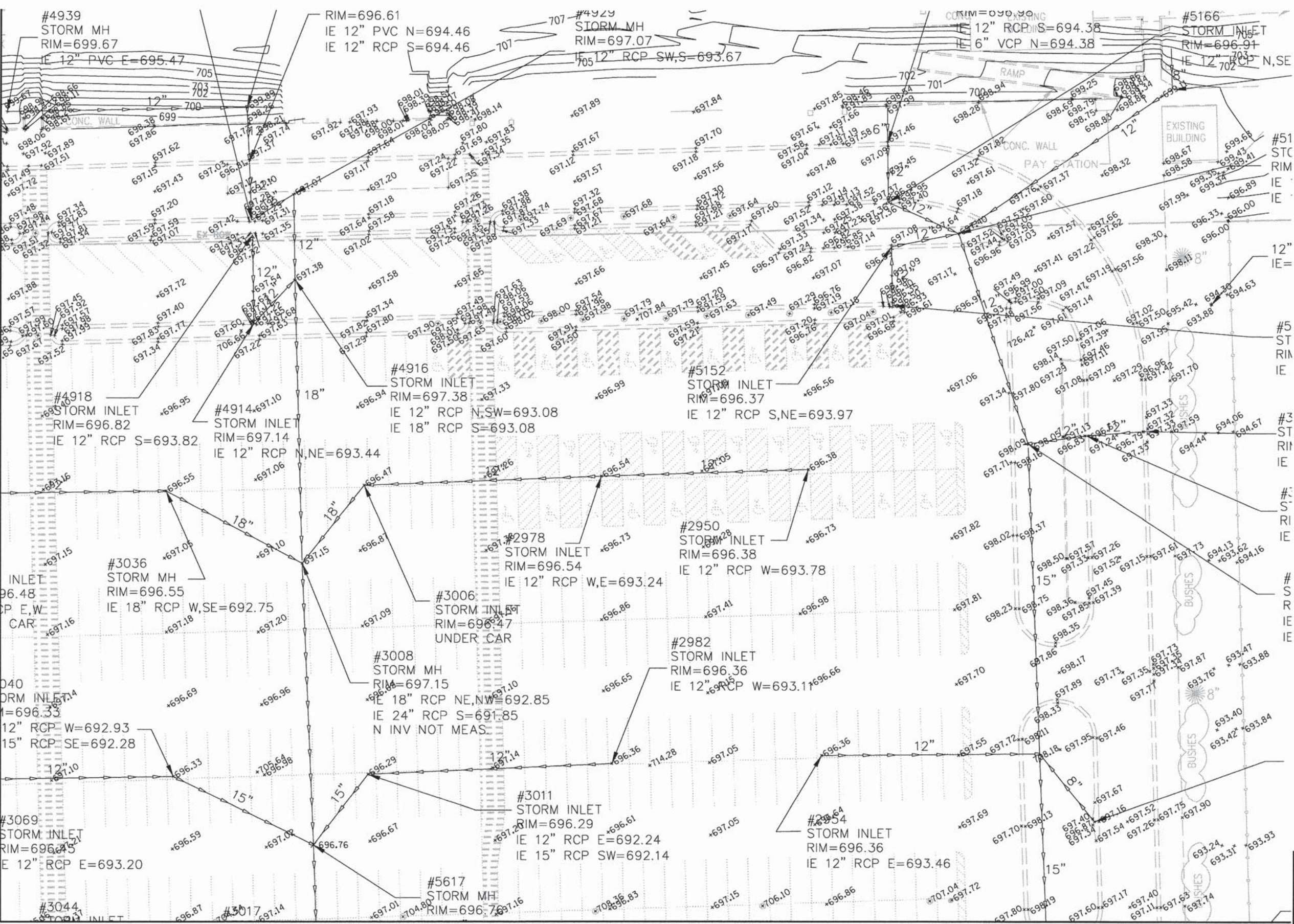


	VS Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = bhert DESIGNED - JH DRAWN - HS CHECKED - MJR DATE - 10-09-15	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING CONDITIONS	SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. TO STA.	MUN 0084 SECTION 13-00300-00-PK COUNTY DUPAGE TOTAL SHEETS 107 SHEET NO. 10 CONTRACT NO. 61B33 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 40' PLOT DATE = 10/16/2015						



MATCH LINE SEE SHEET 10

MATCH LINE SEE SHEET 14



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = #USER*
DESIGNED - JH
DRAWN - HS
CHECKED - MJR
DATE - 10-09-15

REVISED -
REVISED -
REVISED -
REVISED -

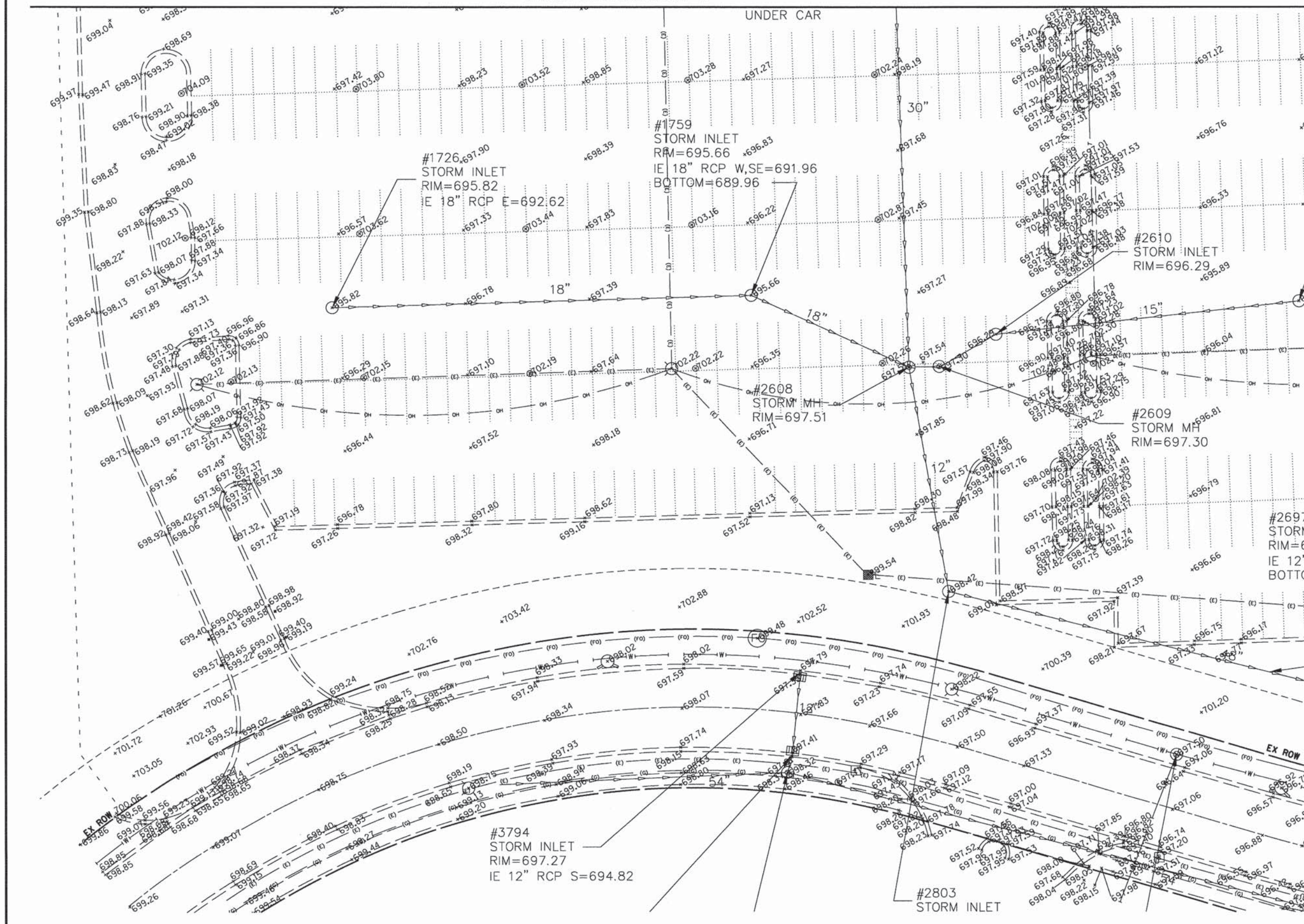
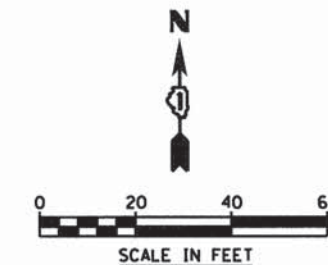
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS

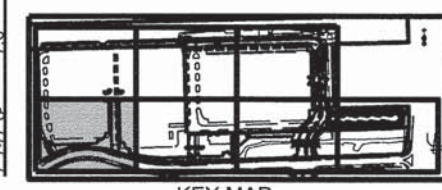
SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	11
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 9

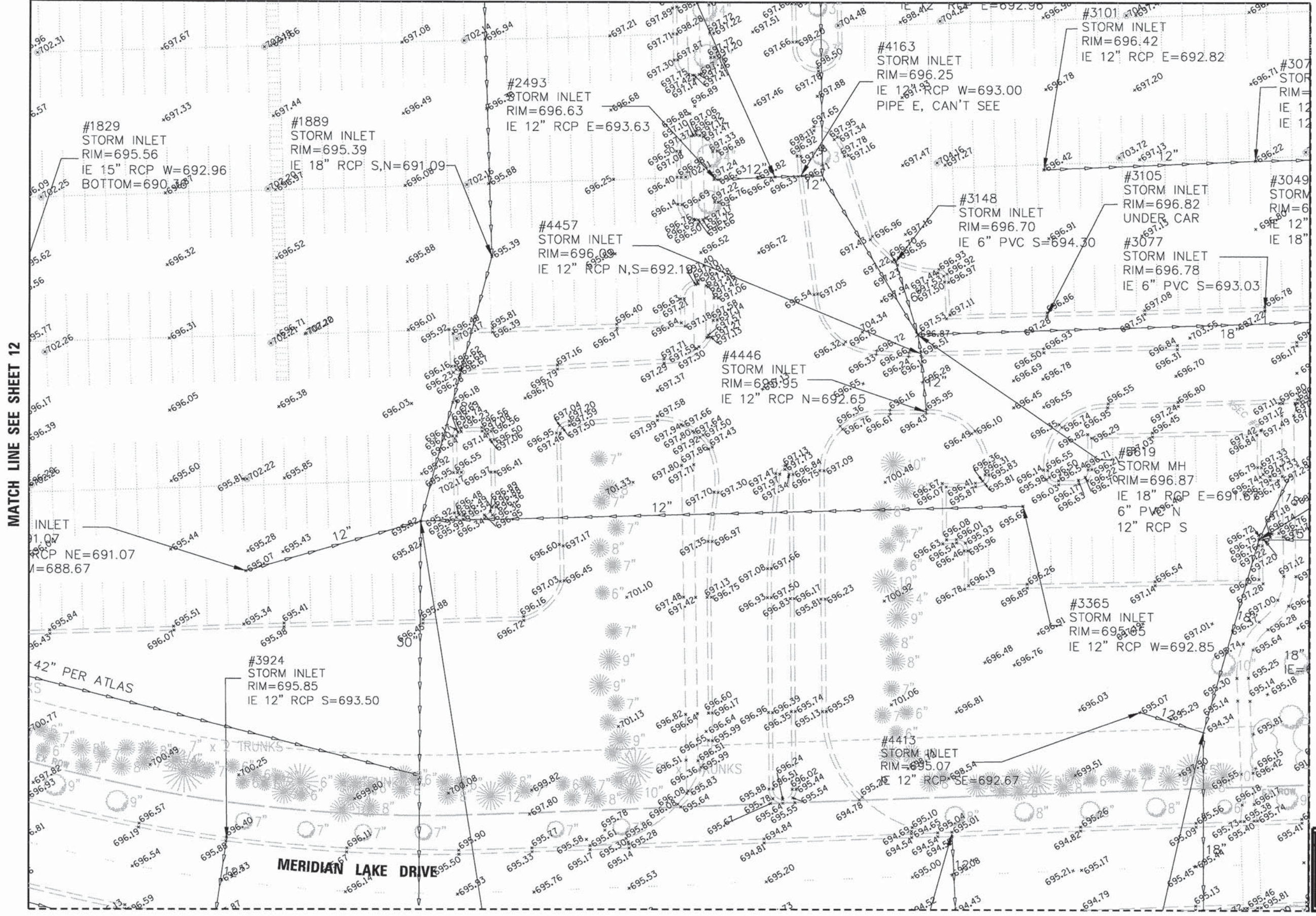
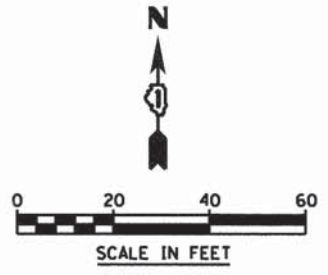


MATCH LINE SEE SHEET 13



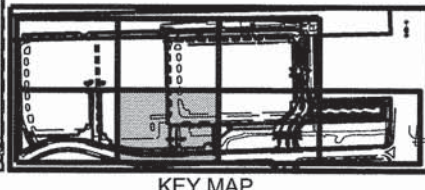
<p>V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com</p>	USER NAME = #USER#	DESIGNED - JH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING CONDITIONS		MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -		0084	13-00300-00-PK	DUPAGE	107	12			
	PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -		SCALE: 1"=20'		SHEET 4 OF 7 SHEETS		STA. TO STA.		CONTRACT NO. 61B33	
	DATE - 10-09-15	DATE - 10-09-15	REVISED -		ILLINOIS FED. AID PROJECT							

MATCH LINE SEE SHEET 10



MATCH LINE SEE SHEET 12

MATCH LINE SEE SHEET 14



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
830.724.9200 phone
830.724.9202 fax
www.v3co.com

USER NAME = #USER#
PLOT SCALE = #SCALE#
PLOT DATE = 10/9/2015

DESIGNED - JH
DRAWN - HS
CHECKED - MJR
DATE - 10-09-15

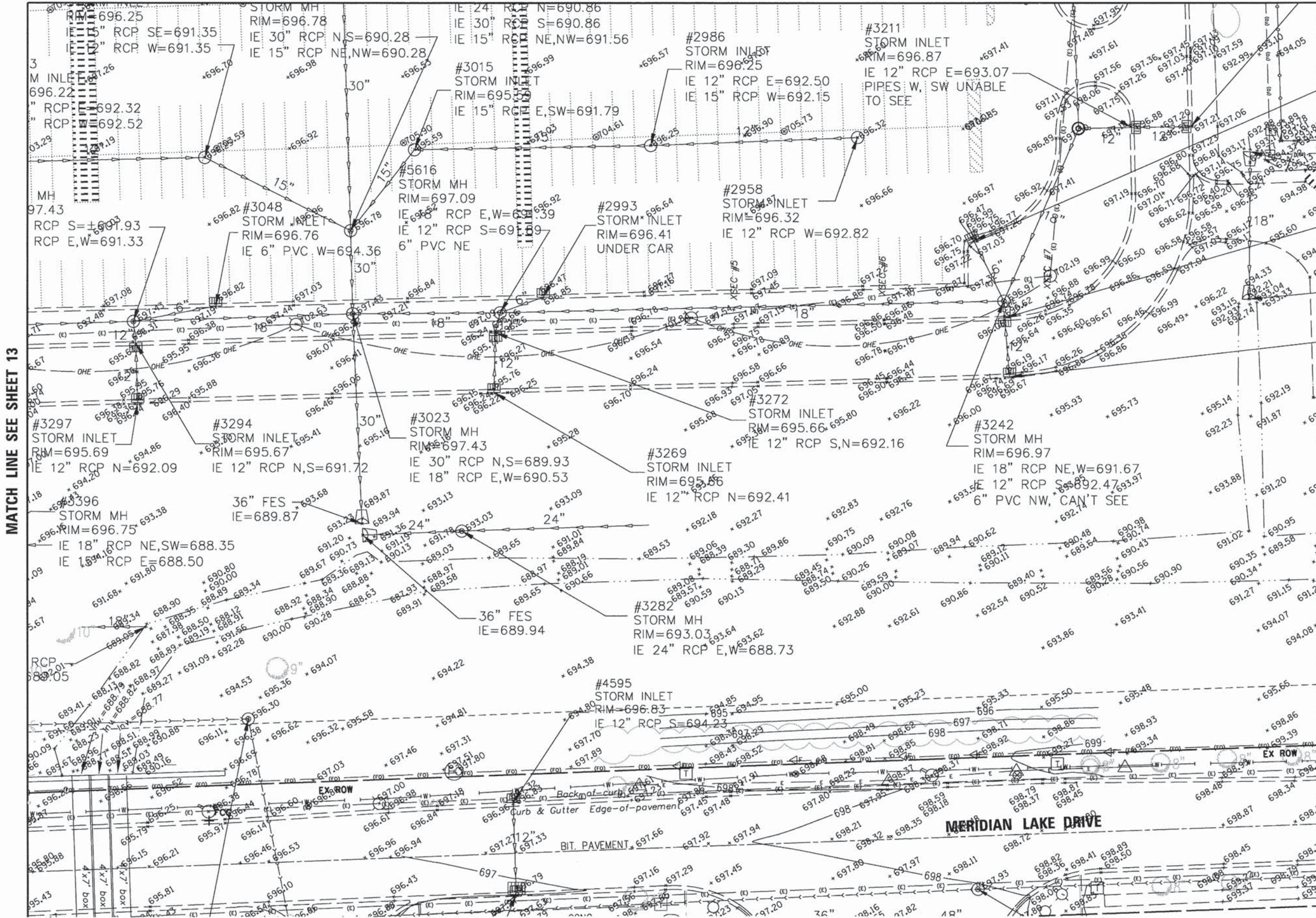
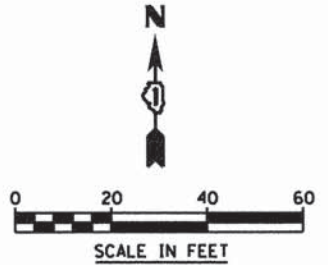
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS
SCALE: 1"=20'
SHEET 5 OF 7 SHEETS
STA. TO STA.

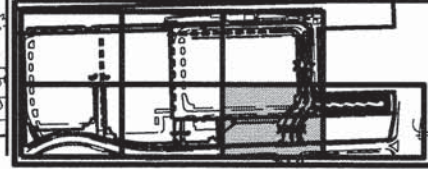
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	13
CONTRACT NO. 61833				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 11



MATCH LINE SEE SHEET 13

MATCH LINE SEE SHEET 15



KEY MAP

V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = #USER#
PLOT SCALE = #SCALE#
PLOT DATE = 10/9/2015

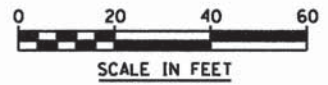
DESIGNED - JH
DRAWN - HS
CHECKED - MJR
DATE - 10-09-15

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS
SCALE: 1"=20'
SHEET 6 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	14
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



MATCH LINE SEE SHEET 14

IE 12" RCP W=693.53

#3190
STORM INLET
RIM=696.47
IE 6" PVC SE=693.82

CHAIN LINK FENCE

24" FES
IE=692.34

#3241
STORM INLET
RIM=696.01
IE 12" RCP N,S=692.51

24" FES
IE=692.21

#3237
STORM INLET
RIM=696.14
IE 12" RCP N=693.09

36" RCP
Contains small RCP heading north inside which was inaccessible; see field notes

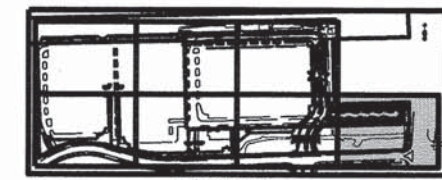
5'x4' wide box /w dirt.

48" cmp
48" cmp
48" cmp

18" CMP
Inv.=692.31

24" cmp
Inv.=693.7

#5295
STORM INLET



KEY MAP



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

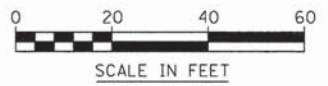
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PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS

SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	15
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



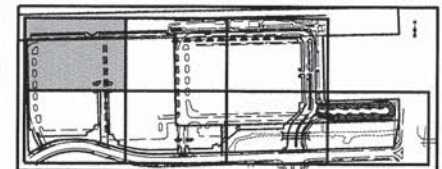
NOTE:

1. ALL OVERHEAD ELECTRIC AND TELECOM CABLES SHALL BE REMOVED. SEE STAGING & LIGHTING PLANS
2. ALL EXISTING SIGN PANELS AND POSTS TO BE REMOVED AND DISPOSED BY CONTRACTOR, PAID FOR AS "REMOVE EXISTING SIGN POST"

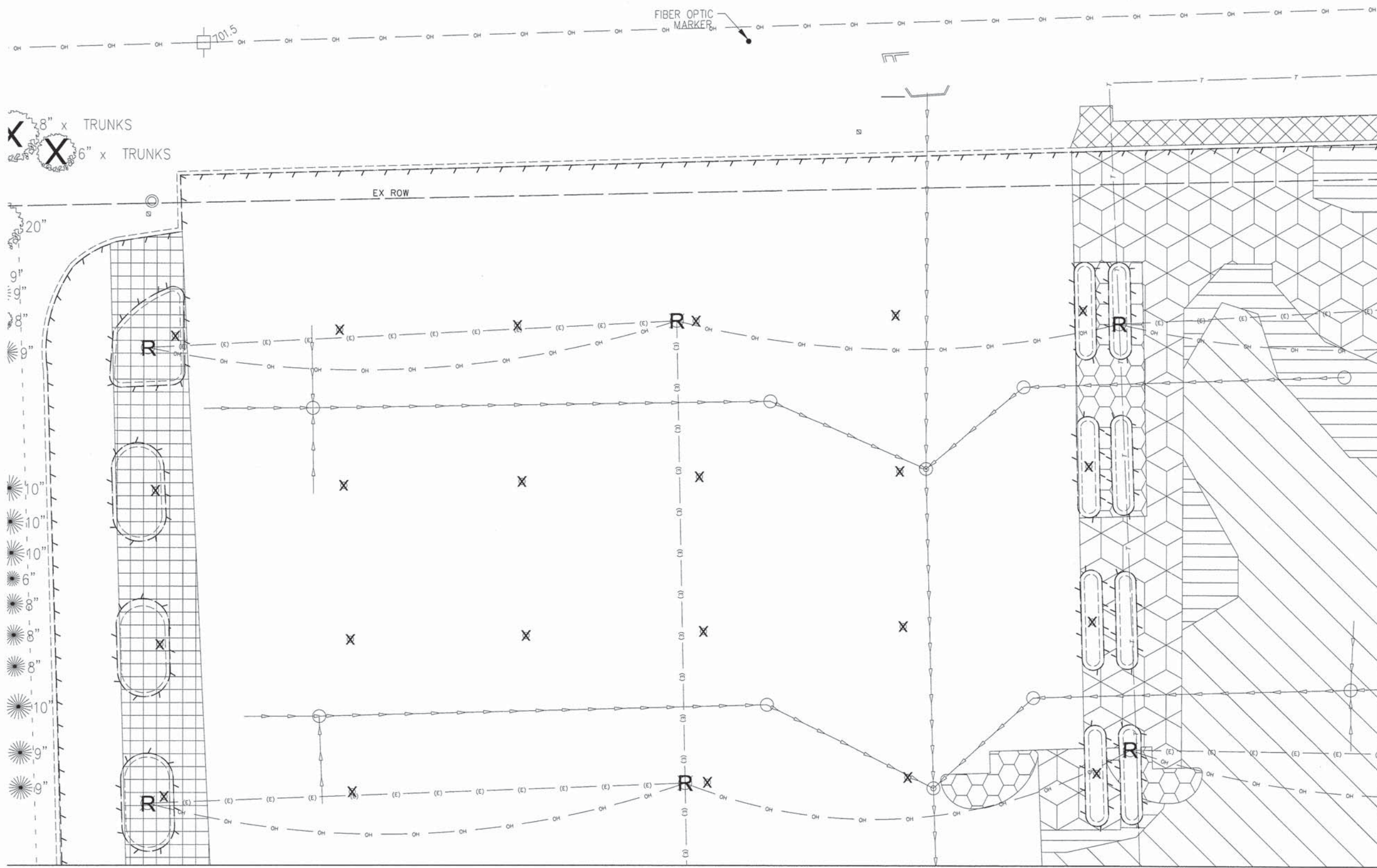
LEGEND

- STORM SEWER PIPE REMOVAL
- CURB & GUTTER REMOVAL
- REMOVAL OF LIGHTING UNIT
- STORM SEWER STRUCTURE REMOVAL
- TREE REMOVAL
- STEEL POST REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3"
- FULL DEPTH PAVEMENT REMOVAL
- HMA PAVEMENT TO BE PULVERIZED IN PLACE
- FULL-DEPTH RECLAMATION
- SIDEWALK REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3.75"

MATCH LINE SEE SHEET 17



KEY MAP



8" x TRUNKS
6" x TRUNKS

20"
10"
10"
10"
8"
8"
10"
9"
9"

MATCH LINE SEE SHEET 19



USER NAME = #USERS	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 11/13/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	16
			CONTRACT NO. 61B33	

ILLINOIS FED. AID PROJECT

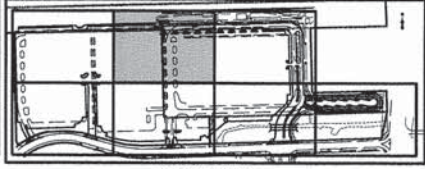


NOTE:

1. ALL OVERHEAD ELECTRIC AND TELECOM CABLES SHALL BE REMOVED. SEE STAGING & LIGHTING PLANS
2. ALL EXISTING SIGN PANELS AND POSTS TO BE REMOVED AND DISPOSED BY CONTRACTOR. PAID FOR AS "REMOVE EXISTING SIGN POST"

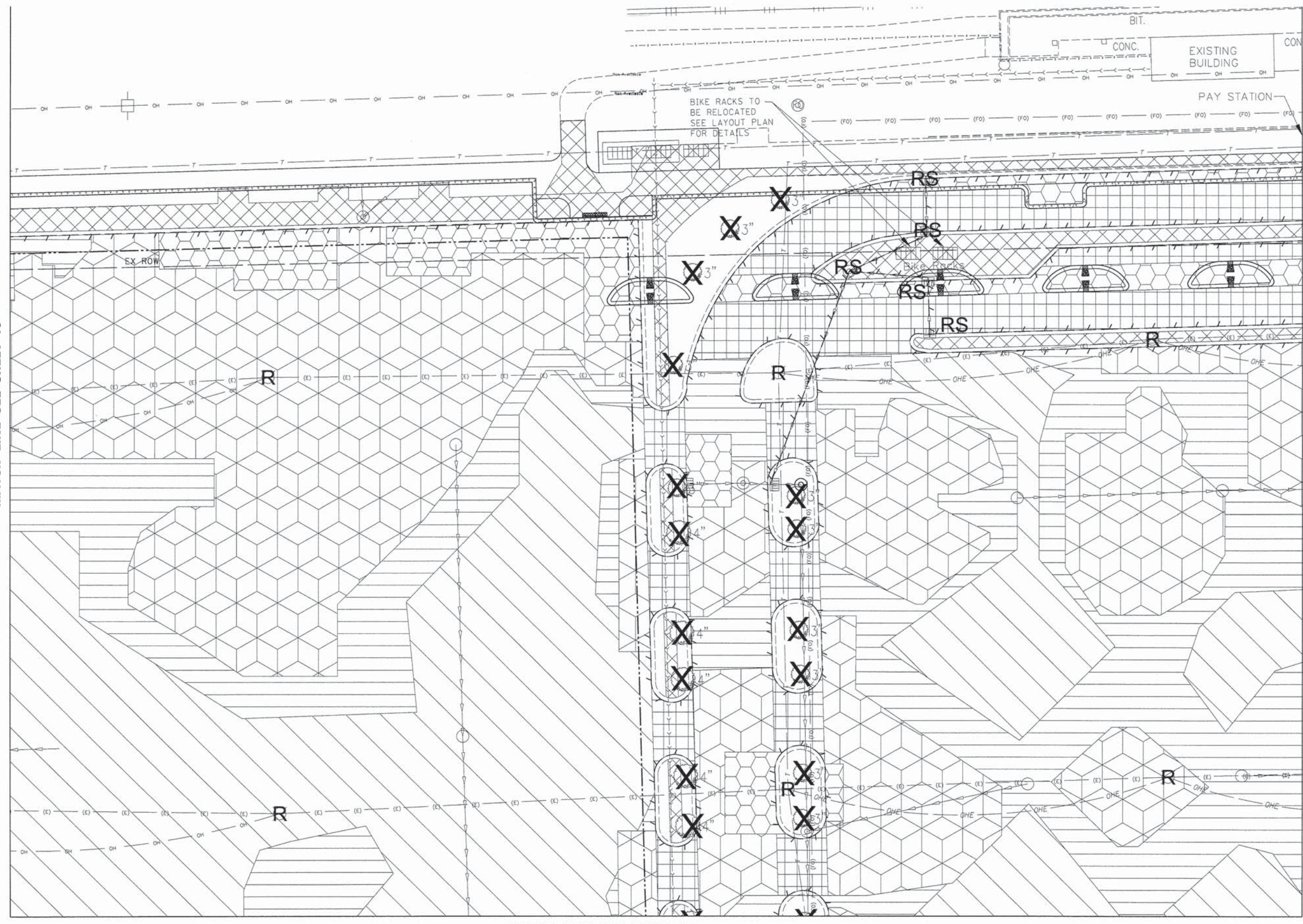
LEGEND

- STORM SEWER PIPE REMOVAL
- CURB & GUTTER REMOVAL
- REMOVAL OF LIGHTING UNIT
- STORM SEWER STRUCTURE REMOVAL
- TREE REMOVAL
- STEEL POST REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3"
- FULL DEPTH PAVEMENT REMOVAL
- HMA PAVEMENT TO BE PULVERIZED IN PLACE
- FULL-DEPTH RECLAMATION
- SIDEWALK REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3.75"



KEY MAP

MATCH LINE SEE SHEET 16



MATCH LINE SEE SHEET 20



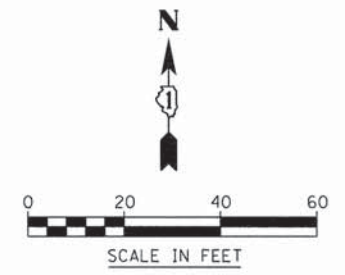
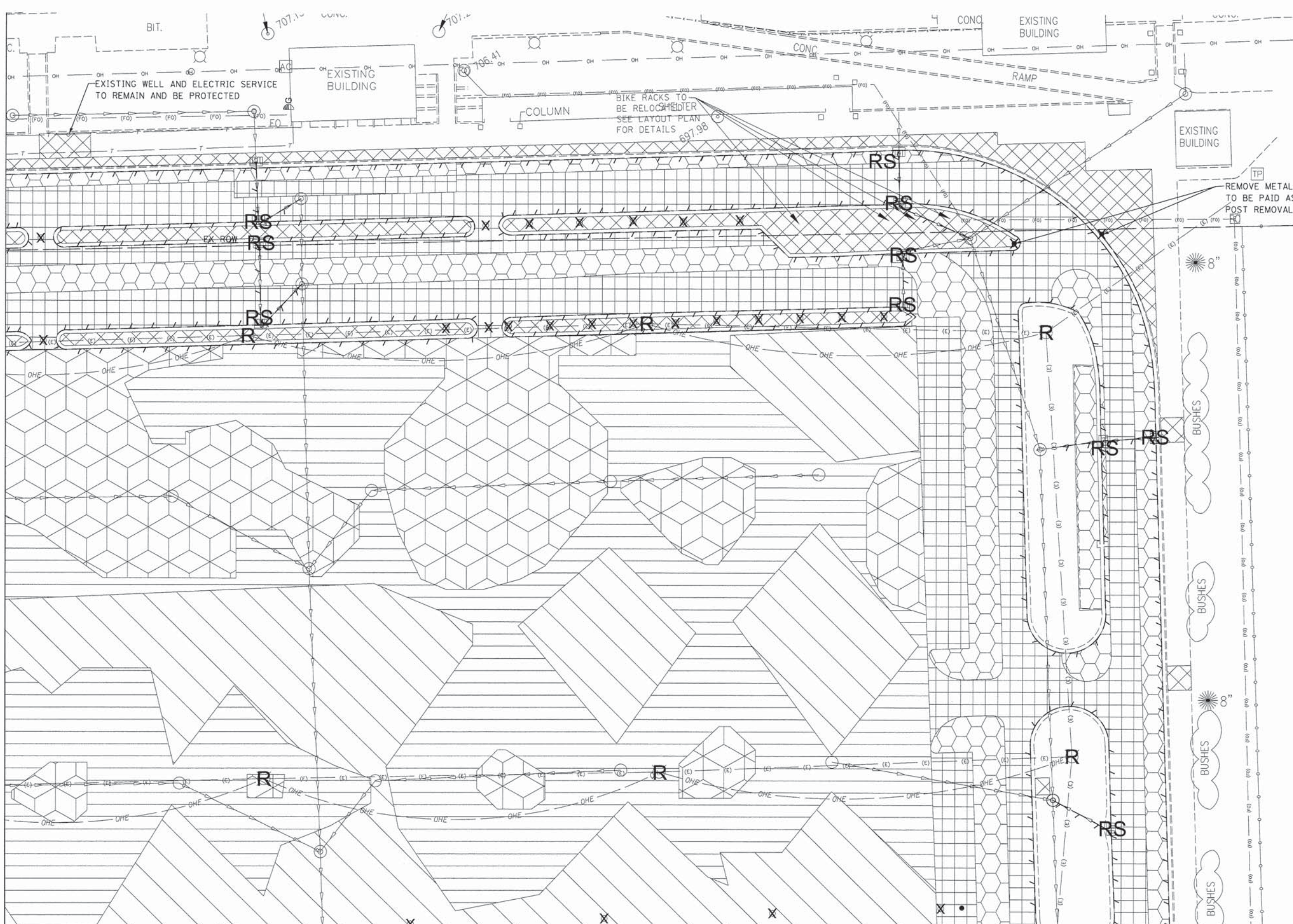
USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 11/13/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	17
			CONTRACT NO. 61833	
ILLINOIS FED. AID PROJECT				

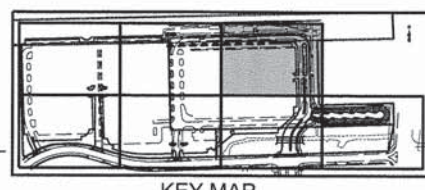


- NOTE:
1. ALL OVERHEAD ELECTRIC AND TELECOM CABLES SHALL BE REMOVED. SEE STAGING & LIGHTING PLANS
 2. ALL EXISTING SIGN PANELS AND POSTS TO BE REMOVED AND DISPOSED BY CONTRACTOR. PAID FOR AS "REMOVE EXISTING SIGN POST"

- LEGEND
- STORM SEWER PIPE REMOVAL
 - CURB & GUTTER REMOVAL
 - REMOVAL OF LIGHTING UNIT
 - STORM SEWER STRUCTURE REMOVAL
 - TREE REMOVAL
 - STEEL POST REMOVAL
 - HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3"
 - FULL DEPTH PAVEMENT REMOVAL
 - HMA PAVEMENT TO BE PULVERIZED IN PLACE
 - FULL-DEPTH RECLAMATION
 - SIDEWALK REMOVAL
 - HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3.75"

MATCH LINE SEE SHEET 17

MATCH LINE SEE SHEET 21



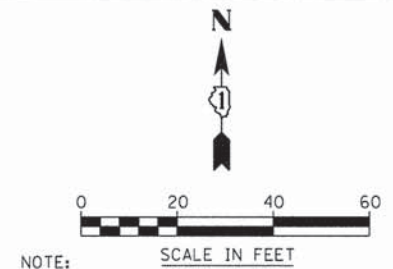
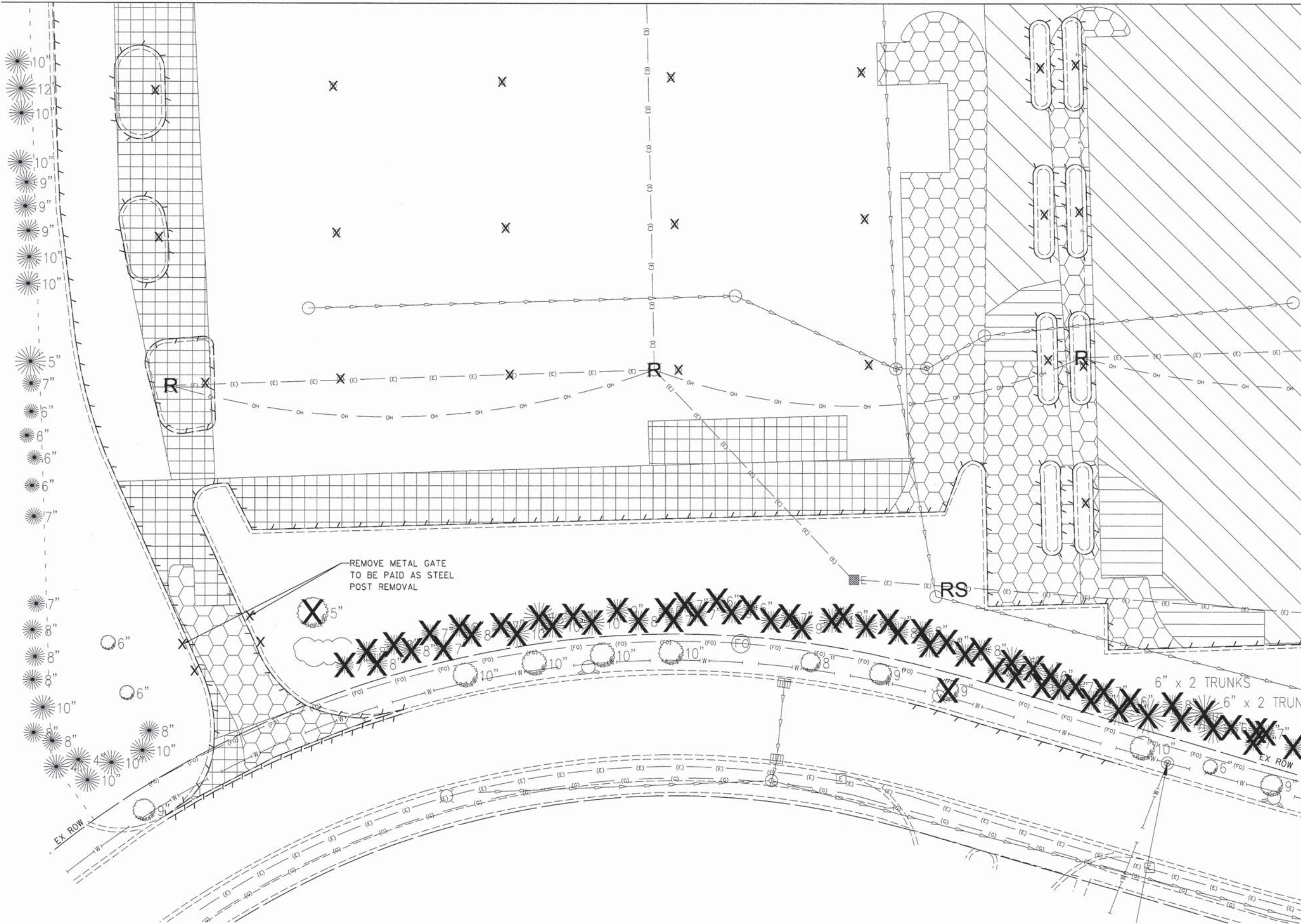
USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 11/13/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	18
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

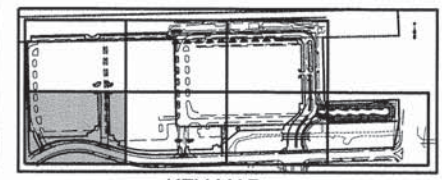
MATCH LINE SEE SHEET 16



- NOTE:
1. ALL OVERHEAD ELECTRIC AND TELECOM CABLES SHALL BE REMOVED. SEE STAGING & LIGHTING PLANS
 2. ALL EXISTING SIGN PANELS AND POSTS TO BE REMOVED AND DISPOSED BY CONTRACTOR. PAID FOR AS "REMOVE EXISTING SIGN POST"

- LEGEND
- STORM SEWER PIPE REMOVAL
 - CURB & GUTTER REMOVAL
 - REMOVAL OF LIGHTING UNIT
 - STORM SEWER STRUCTURE REMOVAL
 - TREE REMOVAL
 - STEEL POST REMOVAL
 - HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3"
 - FULL DEPTH PAVEMENT REMOVAL
 - HMA PAVEMENT TO BE PULVERIZED IN PLACE
 - FULL-DEPTH RECLAMATION
 - SIDEWALK REMOVAL
 - HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3.75"

MATCH LINE SEE SHEET 20



KEY MAP



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 11/13/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

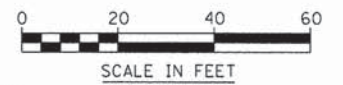
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	19
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 17



NOTE:

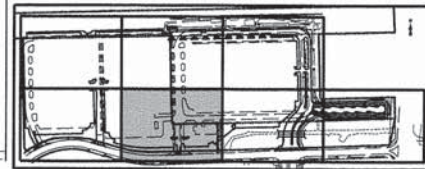
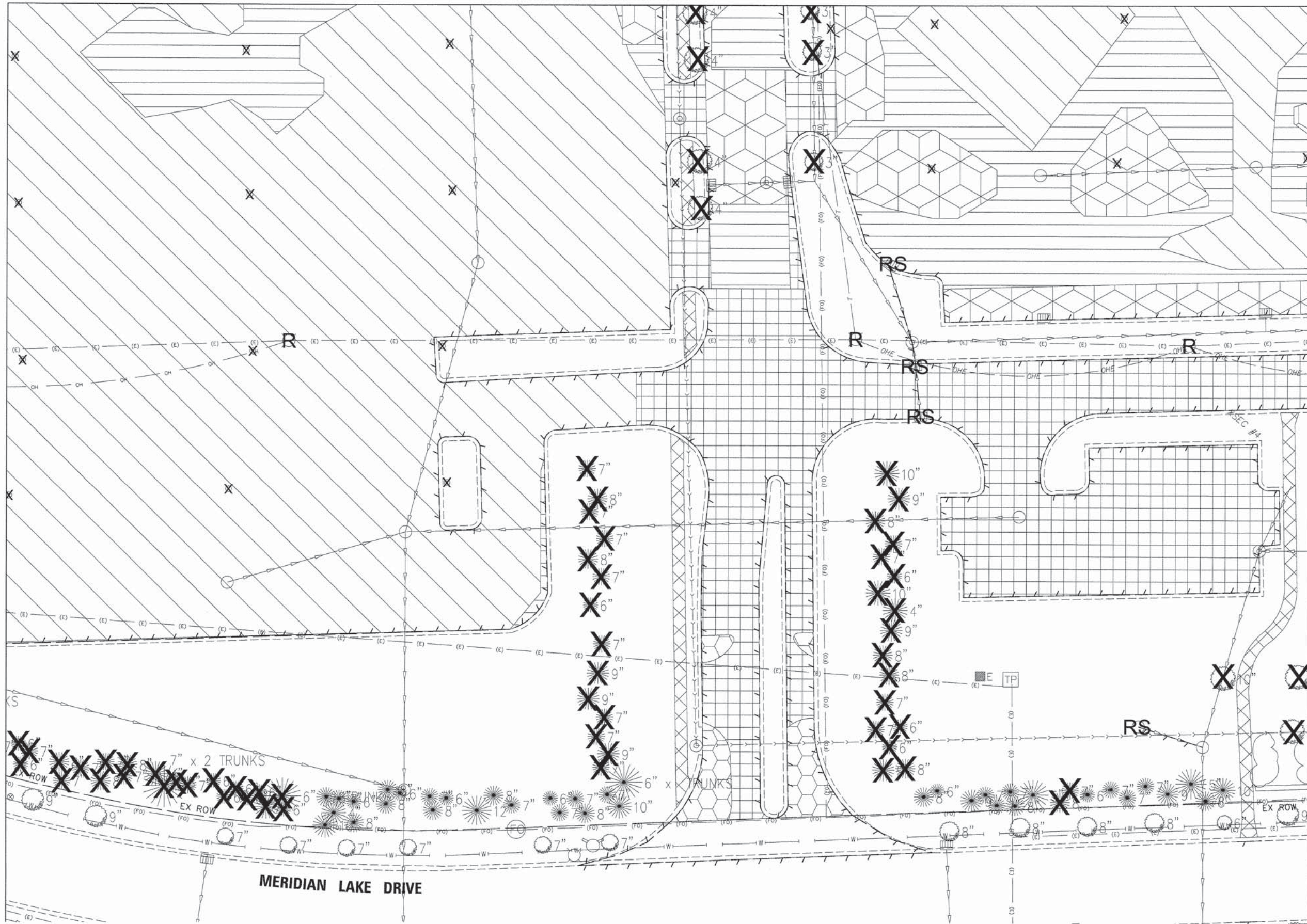
1. ALL OVERHEAD ELECTRIC AND TELECOM CABLES SHALL BE REMOVED. SEE STAGING & LIGHTING PLANS
2. ALL EXISTING SIGN PANELS AND POSTS TO BE REMOVED AND DISPOSED BY CONTRACTOR. PAID FOR AS "REMOVE EXISTING SIGN POST"

LEGEND

- STORM SEWER PIPE REMOVAL
- CURB & GUTTER REMOVAL
- REMOVAL OF LIGHTING UNIT
- STORM SEWER STRUCTURE REMOVAL
- TREE REMOVAL
- STEEL POST REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH 0'' - 3''
- FULL DEPTH PAVEMENT REMOVAL
- HMA PAVEMENT TO BE PULVERIZED IN PLACE
- FULL-DEPTH RECLAMATION
- SIDEWALK REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH 0'' - 3.75''

MATCH LINE SEE SHEET 21

MATCH LINE SEE SHEET 19



KEY MAP

V3 Companies
 7325 Janes Avenue
 Woodridge, IL 60517
 830.724.9200 phone
 830.724.9202 fax
 www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 11/13/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

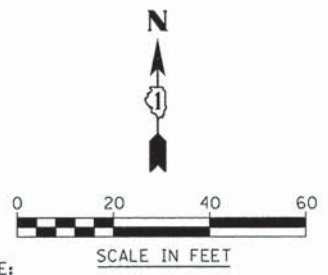
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	20
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 18

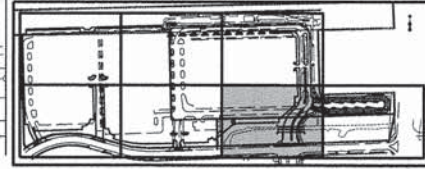
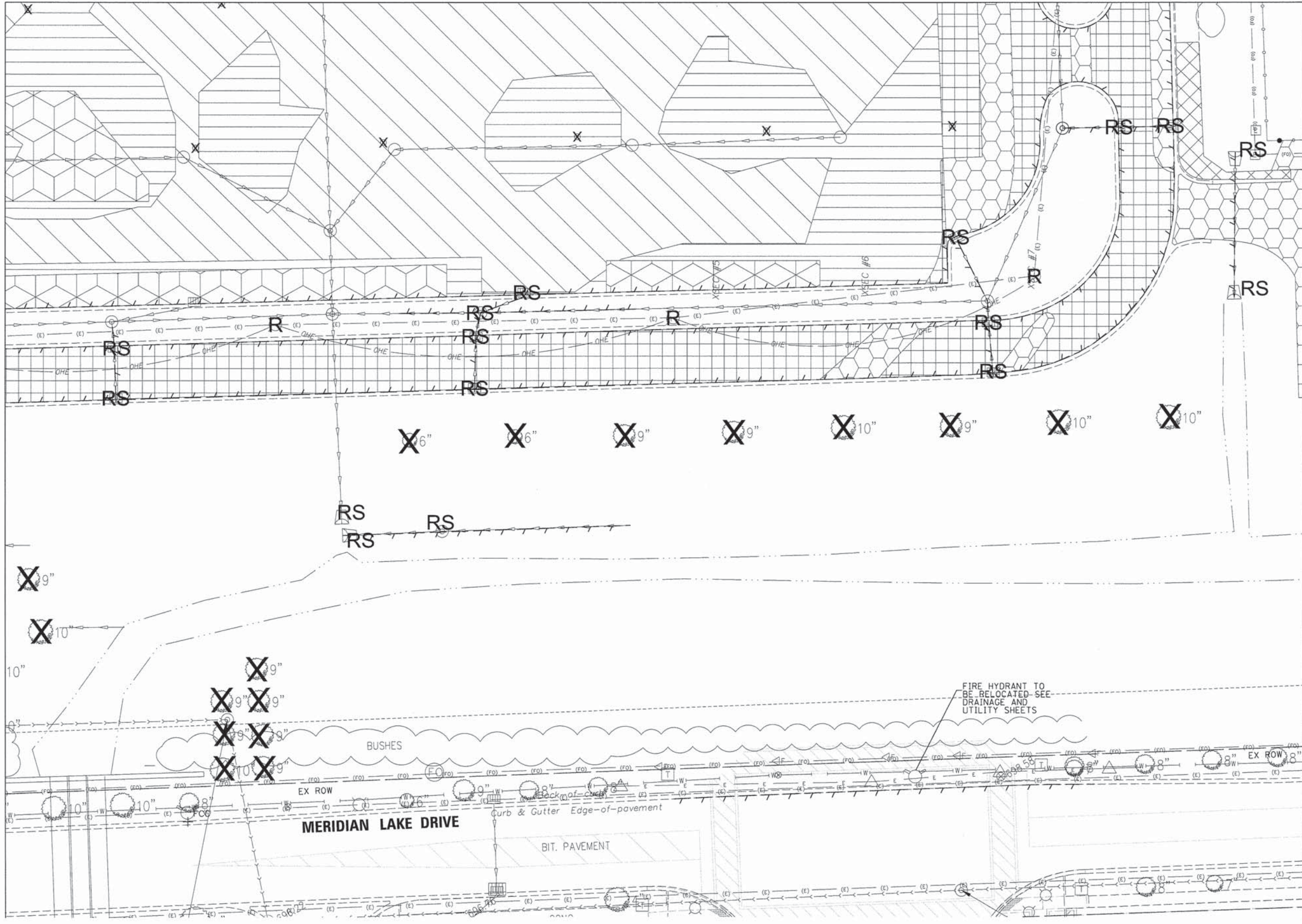


- NOTE:
1. ALL OVERHEAD ELECTRIC AND TELECOM CABLES SHALL BE REMOVED. SEE STAGING & LIGHTING PLANS
 2. ALL EXISTING SIGN PANELS AND POSTS TO BE REMOVED AND DISPOSED BY CONTRACTOR. PAID FOR AS "REMOVE EXISTING SIGN POST"

- LEGEND
- STORM SEWER PIPE REMOVAL
 - CURB & GUTTER REMOVAL
 - REMOVAL OF LIGHTING UNIT
 - STORM SEWER STRUCTURE REMOVAL
 - TREE REMOVAL
 - STEEL POST REMOVAL
 - HMA SURFACE REMOVAL, VARIABLE DEPTH 0'' - 3''
 - FULL DEPTH PAVEMENT REMOVAL
 - HMA PAVEMENT TO BE PULVERIZED IN PLACE
 - FULL-DEPTH RECLAMATION
 - SIDEWALK REMOVAL
 - HMA SURFACE REMOVAL, VARIABLE DEPTH 0'' - 3.75''

MATCH LINE SEE SHEET 20

MATCH LINE SEE SHEET 22



USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 11/13/2015

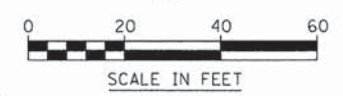
DESIGNED - JH
 DRAWN - OB
 CHECKED - MJR
 DATE - 10-09-15

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
 SCALE: 1"=20'
 SHEET 6 OF 7 SHEETS | STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	21
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

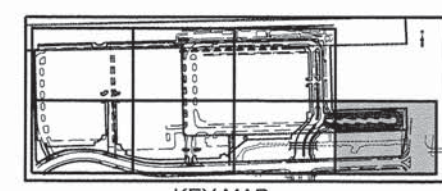


NOTE:

1. ALL OVERHEAD ELECTRIC AND TELECOM CABLES SHALL BE REMOVED. SEE STAGING & LIGHTING PLANS
2. ALL EXISTING SIGN PANELS AND POSTS TO BE REMOVED AND DISPOSED BY CONTRACTOR. PAID FOR AS "REMOVE EXISTING SIGN POST"

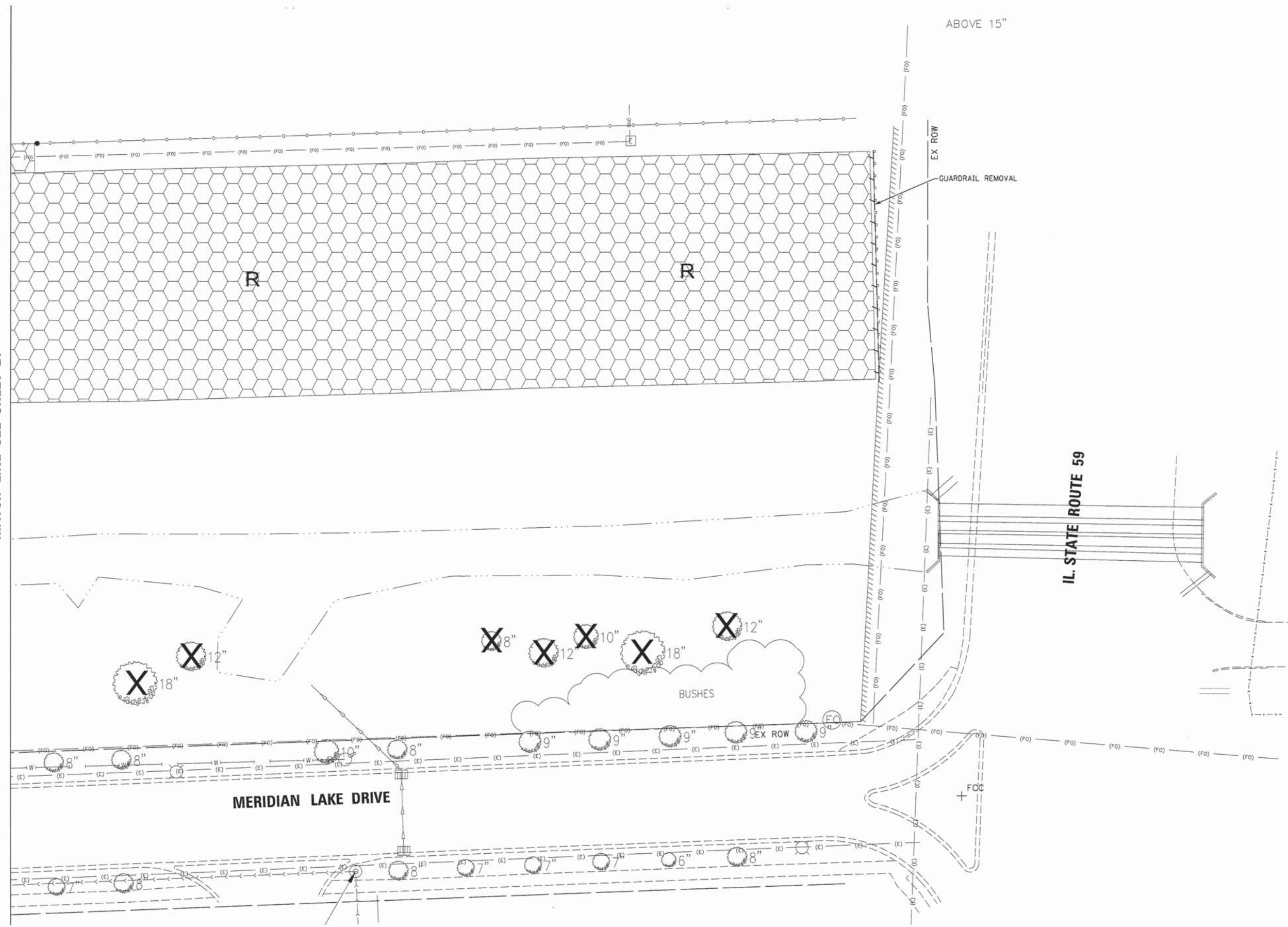
LEGEND

- STORM SEWER PIPE REMOVAL
- CURB & GUTTER REMOVAL
- REMOVAL OF LIGHTING UNIT
- STORM SEWER STRUCTURE REMOVAL
- TREE REMOVAL
- STEEL POST REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3"
- FULL DEPTH PAVEMENT REMOVAL
- HMA PAVEMENT TO BE PULVERIZED IN PLACE
- FULL-DEPTH RECLAMATION
- SIDEWALK REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH 0" - 3.75"



KEY MAP

MATCH LINE SEE SHEET 21



V3 Companies
 7325 Janes Avenue
 Woodridge, IL 60517
 630.724.9200 phone
 630.724.9202 fax
 www.v3co.com

USER NAME = \$USER\$	DESIGNED - JH	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - OB	REVISED -
PLOT DATE = 11/13/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -







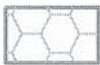




**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

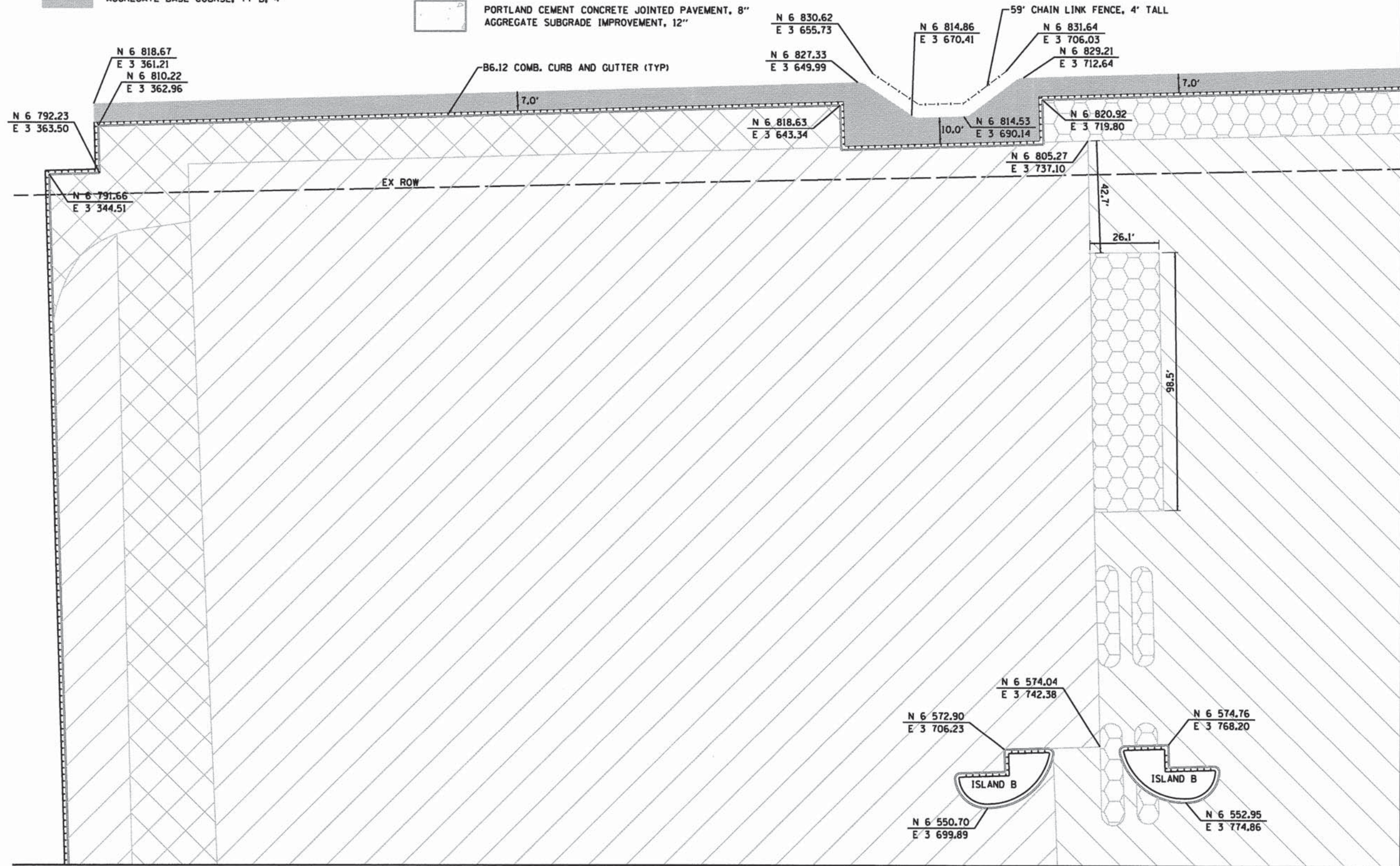
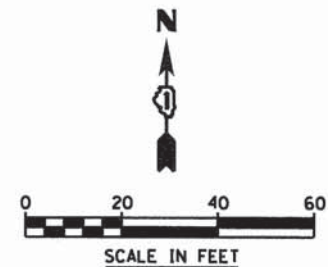
REMOVAL PLAN

SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	22
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

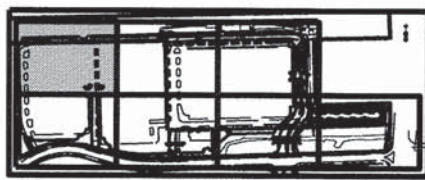
LEGEND

-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" EXISTING ASPHALT TO REMAIN
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD AGGREGATE BASE COURSE TYPE B
-  PORTLAND CEMENT CONCRETE SIDEWALK, 5" AGGREGATE BASE COURSE, TY B, 4"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE BASE COURSE, TYPE B, 4" PC STABILIZED SUBGRADE, 12" (FDR)
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" AGGREGATE BASE COURSE, TYPE B, 4" PC STABILIZED SUBGRADE, 12" (FDR)
-  PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8" AGGREGATE SUBGRADE IMPROVEMENT, 12"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE SUBGRADE IMPROVEMENT, 12"
-  TRANSVERSE EXPANSION JOINT
-  LONGITUDINAL CONSTRUCTION JOINT
-  REVERSE PITCH CURB
-  CURB CUT WITH RIP-RAP EROSION CONTROL SEE CURB CUT DETAIL FOR MORE INFORMATION







MATCH LINE SEE SHEET 24



MATCH LINE SEE SHEET 26



	V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = #USER# PLOT SCALE = #SCALE# PLOT DATE = 10/9/2015	DESIGNED - JH DRAWN - HS CHECKED - MJR DATE - 10-09-15	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LAYOUT PLAN	SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.	MUN 0084 SECTION 13-00300-00-PK COUNTY DUPAGE TOTAL SHEETS 107 SHEET NO. 23 CONTRACT NO. 61B33 ILLINOIS FED. AID PROJECT
	ILLINOIS FED. AID PROJECT							

LEGEND

-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
EXISTING ASPHALT TO REMAIN
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD
AGGREGATE BASE COURSE TYPE B
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
AGGREGATE BASE COURSE, TYPE B, 4"
PC STABILIZED SUBGRADE, 12"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
AGGREGATE BASE COURSE, TYPE B, 4"
PC STABILIZED SUBGRADE, 12"


-  PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8"
AGGREGATE SUBGRADE IMPROVEMENT, 12" (FDR)
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
AGGREGATE SUBGRADE IMPROVEMENT, 12" (FDR)

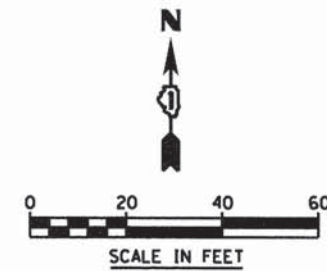
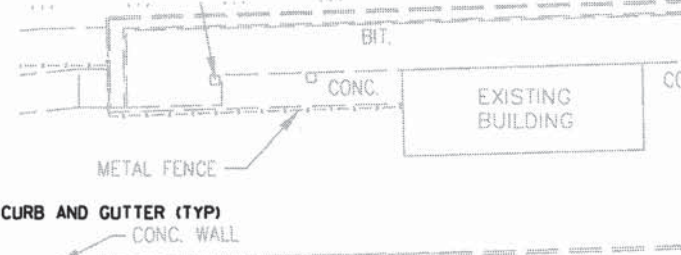
 TRANSVERSE EXPANSION JOINT

 LONGITUDINAL CONSTRUCTION JOINT

 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
AGGREGATE BASE COURSE, TY B, 4"

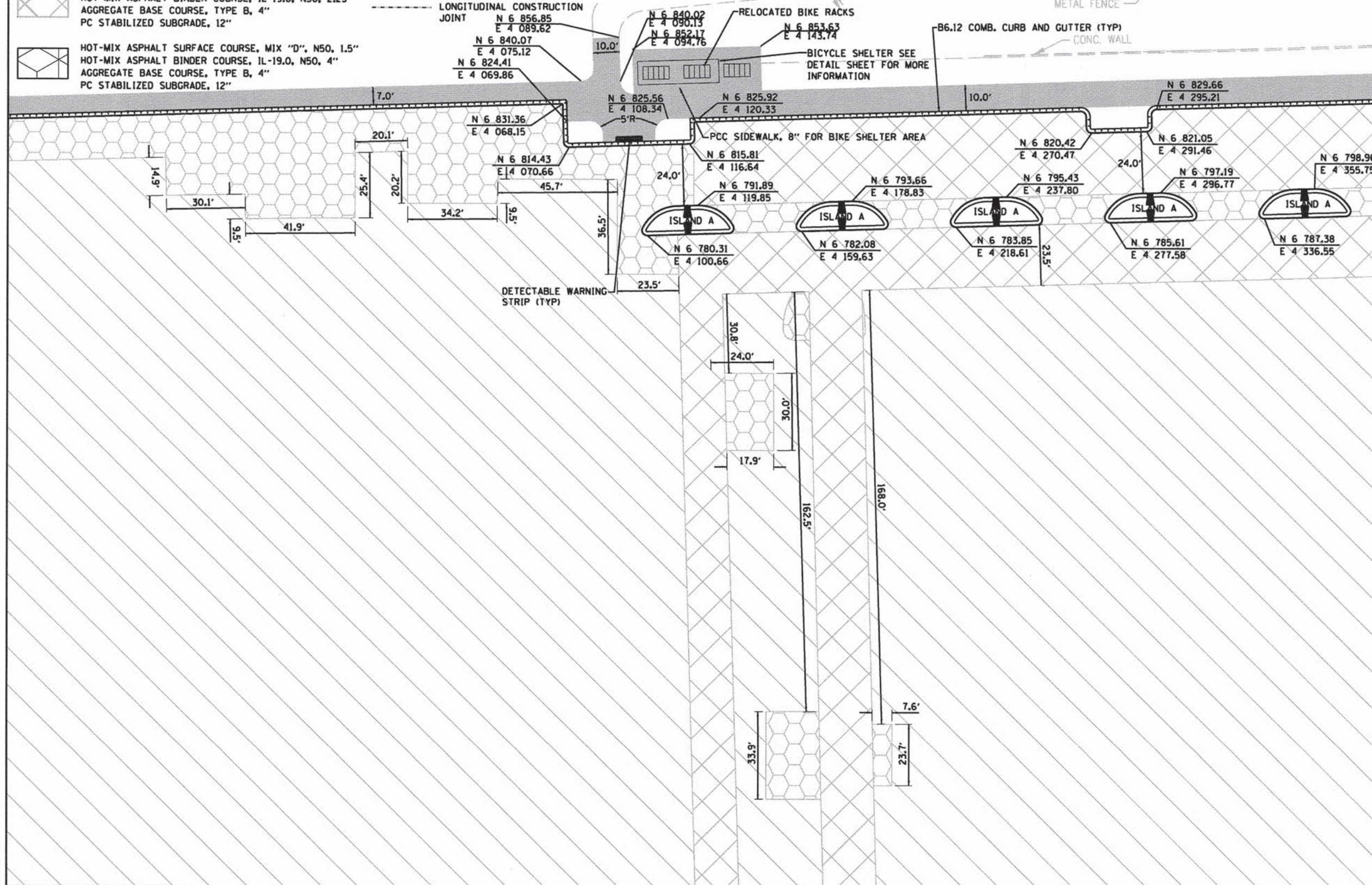
 REVERSE PITCH CURB

 CURB CUT WITH RIP-RAP
EROSION CONTROL SEE
CURB CUT DETAIL FOR MORE
INFORMATION

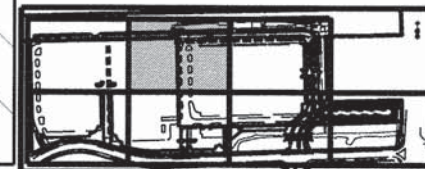


MATCH LINE SEE SHEET 23

MATCH LINE SEE SHEET 25



MATCH LINE SEE SHEET 27



KEY MAP



USER NAME = #USER#
DESIGNED - JH
DRAWN - HS
CHECKED - MJR
DATE - 10-09-15









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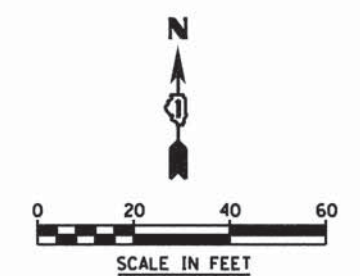
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAYOUT PLAN
SCALE: 1"=20'
SHEET 2 OF 7 SHEETS STA. TO STA.

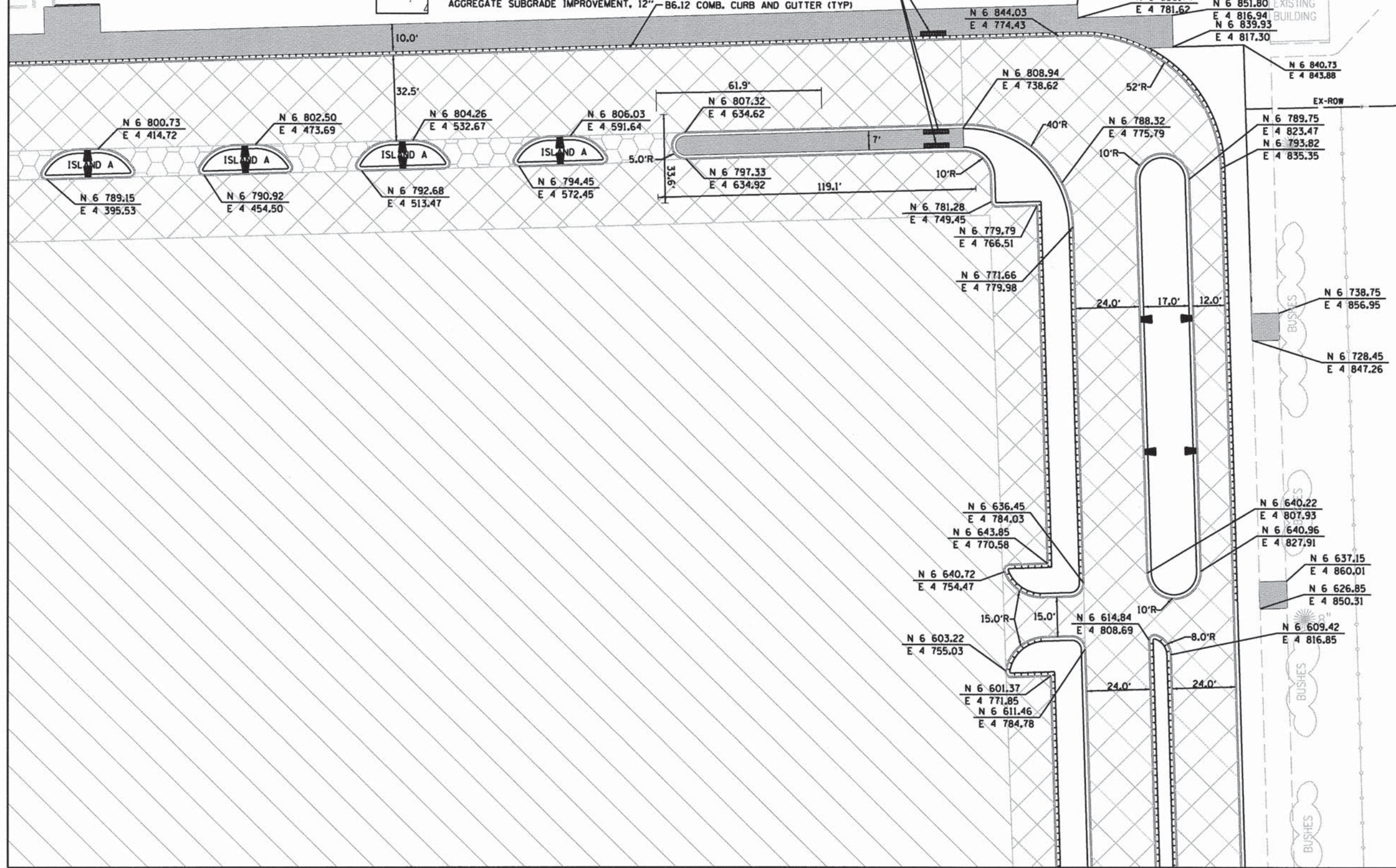
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	24
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

LEGEND

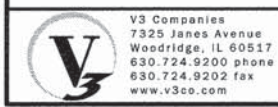
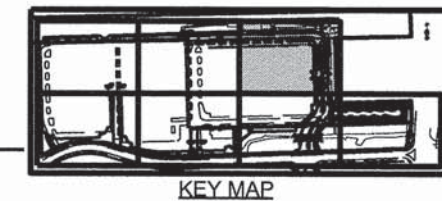
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
EXISTING ASPHALT TO REMAIN
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD
AGGREGATE BASE COURSE TYPE B
-  PORTLAND CEMENT CONCRETE SIDEWALK, 5"
AGGREGATE BASE COURSE, TY B, 4"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
AGGREGATE BASE COURSE, TYPE B, 4"
PC STABILIZED SUBGRADE, 12" (FDR)
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
AGGREGATE BASE COURSE, TYPE B, 4"
PC STABILIZED SUBGRADE, 12" (FDR)
-  PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8"
AGGREGATE SUBGRADE IMPROVEMENT, 12"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
AGGREGATE SUBGRADE IMPROVEMENT, 12"
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL CONSTRUCTION JOINT
- REVERSE PITCH CURB
- DETECTABLE WARNING STRIP WITH 6' CURB TRANSITIONS (TYP)
-  CURB CUT WITH RIP-RAP
EROSION CONTROL SEE
CURB CUT DETAIL FOR MORE
INFORMATION



MATCH LINE SEE SHEET 24



MATCH LINE SEE SHEET 28



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PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

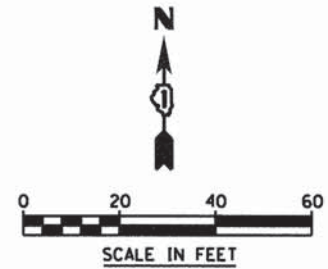
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAYOUT PLAN

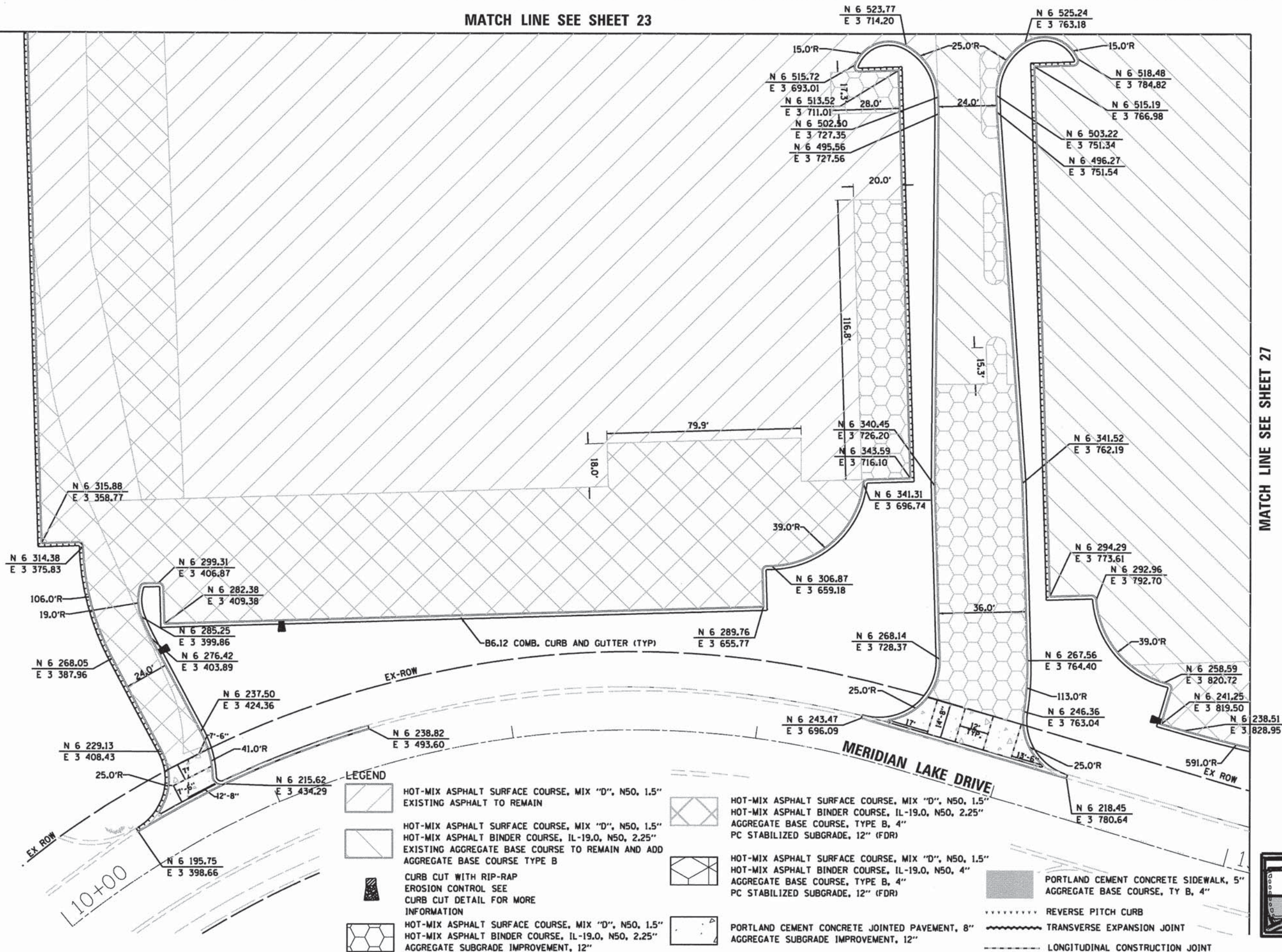
SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	25
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 23

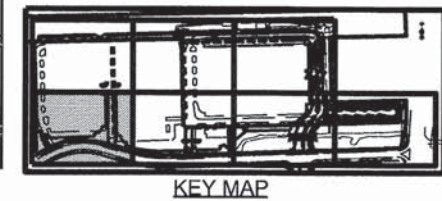


MATCH LINE SEE SHEET 27



LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" EXISTING ASPHALT TO REMAIN
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD AGGREGATE BASE COURSE TYPE B
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" AGGREGATE BASE COURSE, TYPE B, 4" PC STABILIZED SUBGRADE, 12" (FDR)
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- CURB CUT WITH RIP-RAP EROSION CONTROL SEE CURB CUT DETAIL FOR MORE INFORMATION
- PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PORTLAND CEMENT CONCRETE SIDEWALK, 5" AGGREGATE BASE COURSE, TY B, 4"
- REVERSE PITCH CURB
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL CONSTRUCTION JOINT



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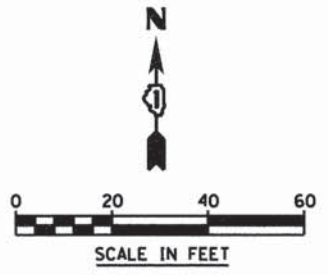
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PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAYOUT PLAN
SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	26
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

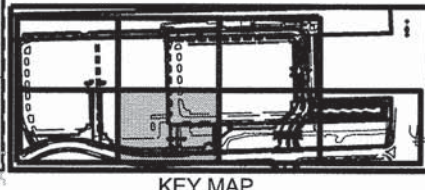
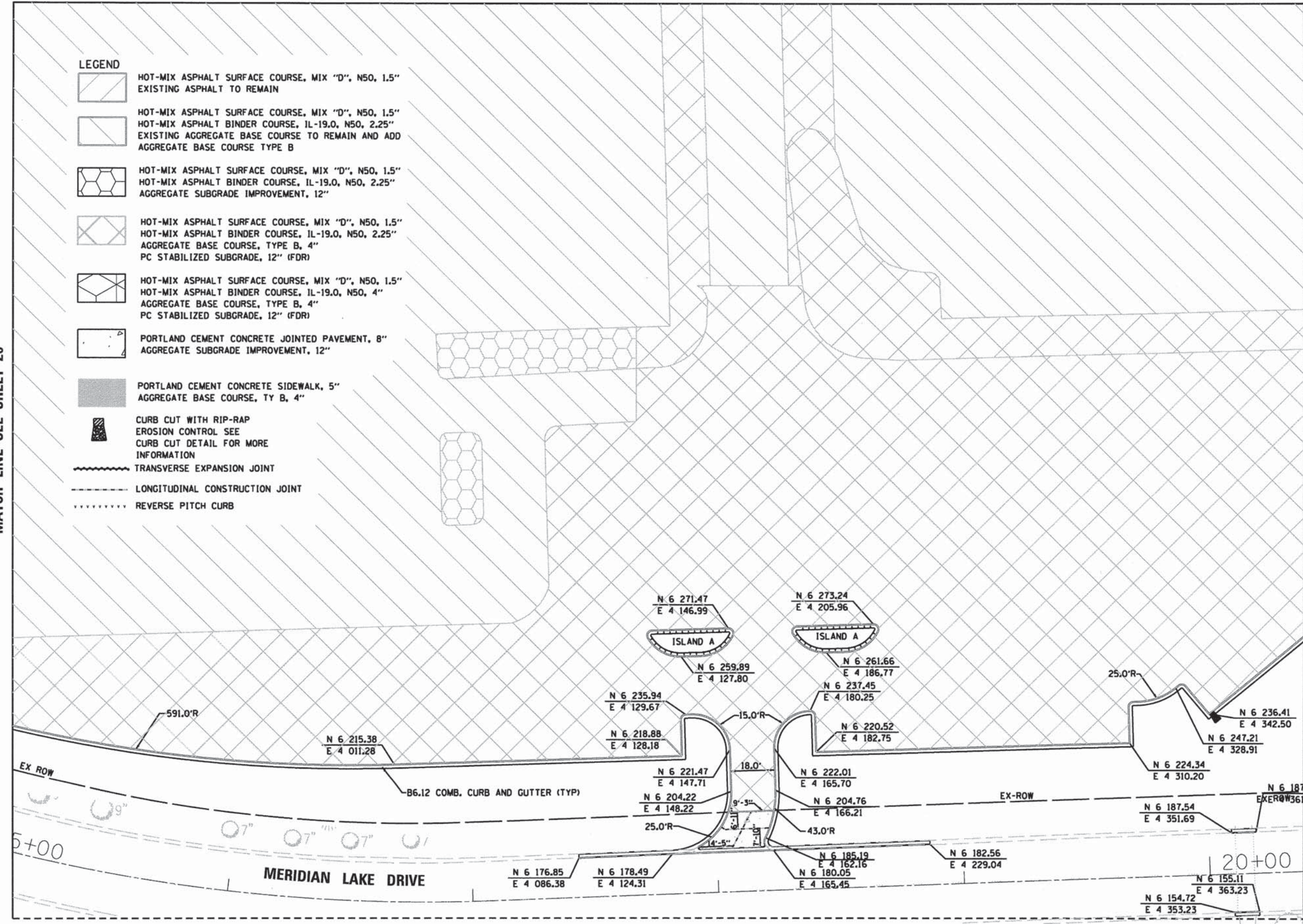
MATCH LINE SEE SHEET 24



- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" EXISTING ASPHALT TO REMAIN
 - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD AGGREGATE BASE COURSE TYPE B
 - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE BASE COURSE, TYPE B, 4" PC STABILIZED SUBGRADE, 12" (FDR)
 - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" AGGREGATE BASE COURSE, TYPE B, 4" PC STABILIZED SUBGRADE, 12" (FDR)
 - PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8" AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - PORTLAND CEMENT CONCRETE SIDEWALK, 5" AGGREGATE BASE COURSE, TY B, 4"
 - CURB CUT WITH RIP-RAP
EROSION CONTROL SEE CURB CUT DETAIL FOR MORE INFORMATION
 - TRANSVERSE EXPANSION JOINT
 - LONGITUDINAL CONSTRUCTION JOINT
 - REVERSE PITCH CURB

MATCH LINE SEE SHEET 26

MATCH LINE SEE SHEET 28



KEY MAP



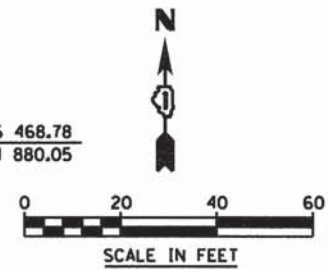
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PLLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'	SHEET 5 OF 7 SHEETS	STA. TO STA.
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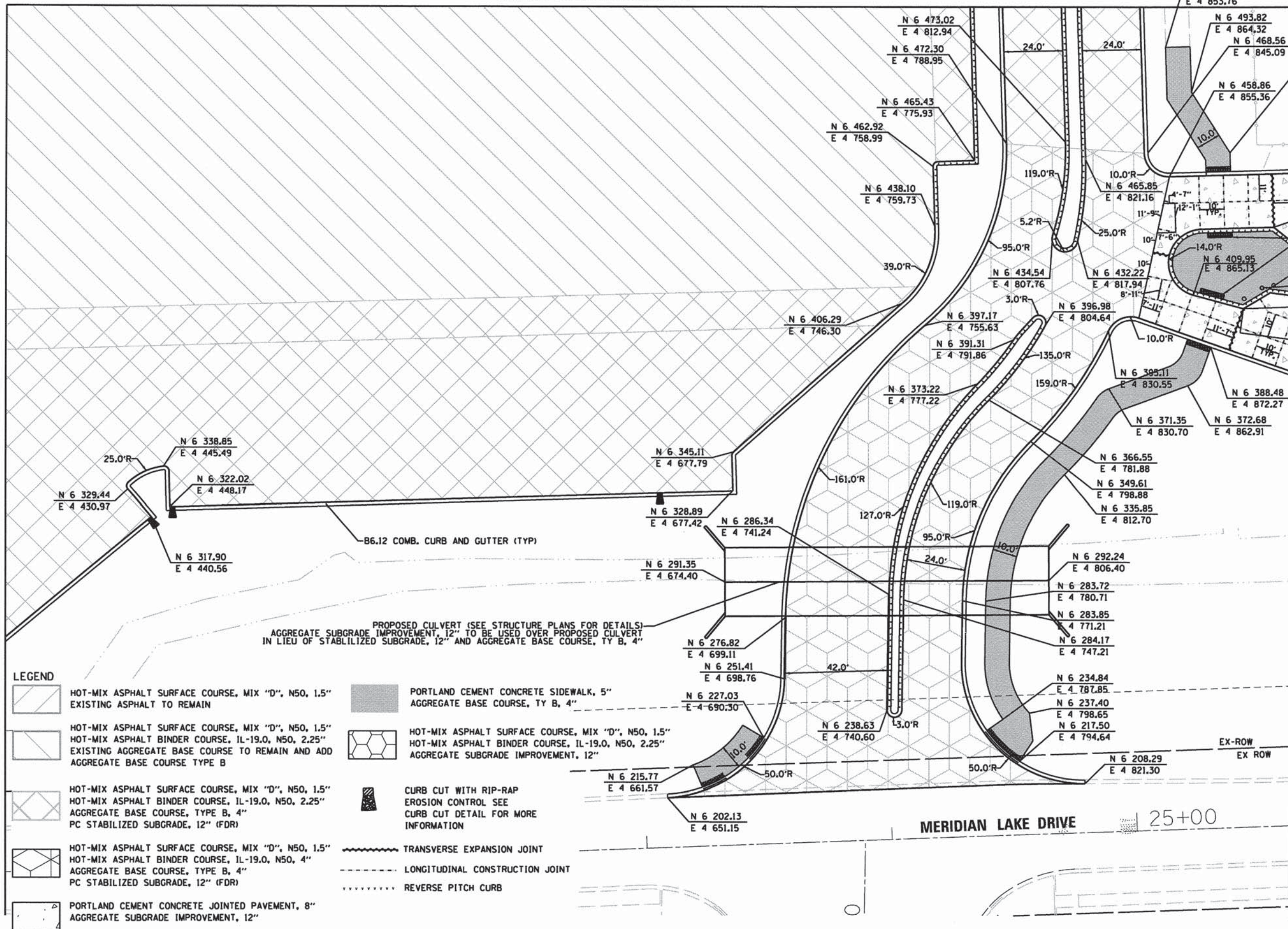
MUN 0084	SECTION 13-00300-00-PK	COUNTY DUPAGE	TOTAL SHEETS 107	SHEET NO. 27
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 25



MATCH LINE SEE SHEET 27

MATCH LINE SEE SHEET 29

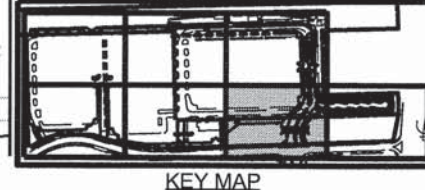


LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" EXISTING ASPHALT TO REMAIN
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD AGGREGATE BASE COURSE TYPE B
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- PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PORTLAND CEMENT CONCRETE SIDEWALK, 5" AGGREGATE BASE COURSE, TY B, 4"
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- CURB CUT WITH RIP-RAP EROSION CONTROL SEE CURB CUT DETAIL FOR MORE INFORMATION
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL CONSTRUCTION JOINT
- REVERSE PITCH CURB

PROPOSED CULVERT (SEE STRUCTURE PLANS FOR DETAILS)
 AGGREGATE SUBGRADE IMPROVEMENT, 12" TO BE USED OVER PROPOSED CULVERT
 IN LIEU OF STABILIZED SUBGRADE, 12" AND AGGREGATE BASE COURSE, TY B, 4"

DETECTABLE WARNING STRIP WITH 6" CURB TRANSITION (TYP)
 BOLLARD (TYP) SEE NEXT LAYOUT SHEET FOR INSTALL DETAIL



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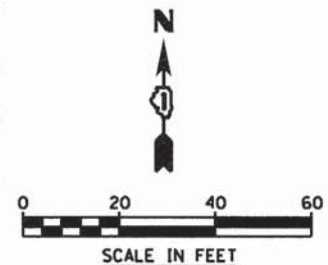
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LAYOUT PLAN
 SCALE: 1"=20'
 SHEET 6 OF 7 SHEETS STA. TO STA.




MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	28
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

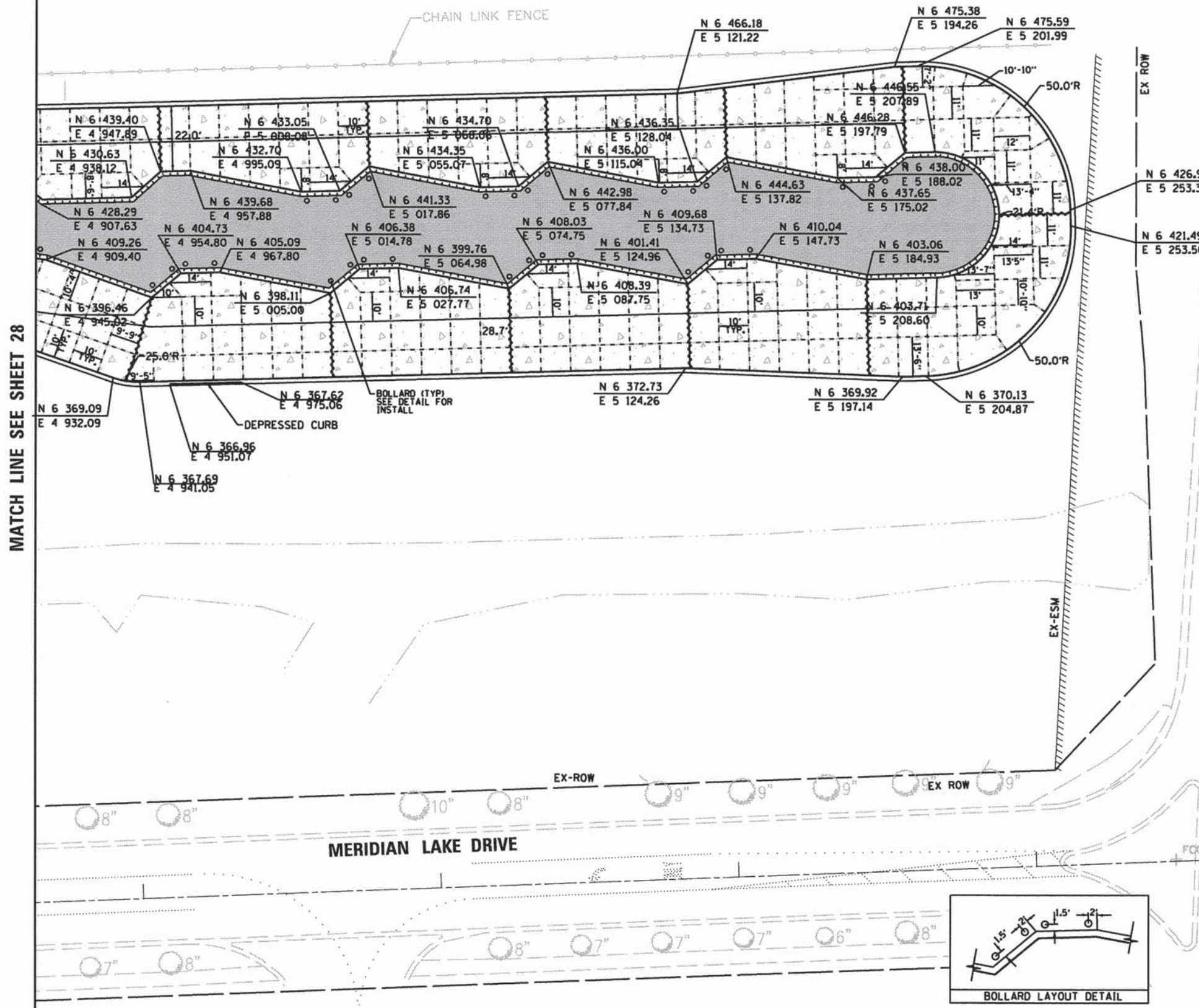
LEGEND

-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
EXISTING ASPHALT TO REMAIN
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD
AGGREGATE BASE COURSE TYPE B
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
AGGREGATE BASE COURSE, TYPE B, 4"
PC STABILIZED SUBGRADE, 12" (FDR)
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
AGGREGATE BASE COURSE, TYPE B, 4"
PC STABILIZED SUBGRADE, 12" (FDR)
-  PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8"
AGGREGATE SUBGRADE IMPROVEMENT, 12"
-  PORTLAND CEMENT CONCRETE SIDEWALK, 5" (SEE NOTE 1)
AGGREGATE BASE COURSE, TY B, 4"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
AGGREGATE SUBGRADE IMPROVEMENT, 12"



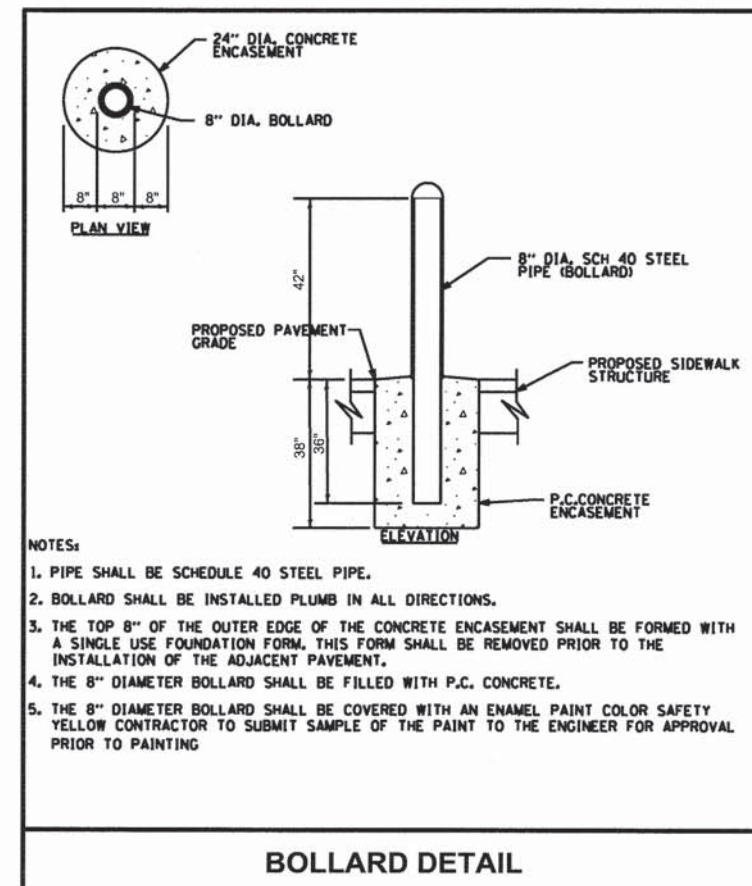
CURB CUT WITH RIP-RAP
EROSION CONTROL SEE
CURB CUT DETAIL FOR MORE
INFORMATION

-  TRANSVERSE EXPANSION JOINT
-  LONGITUDINAL CONSTRUCTION JOINT
-  REVERSE PITCH CURB



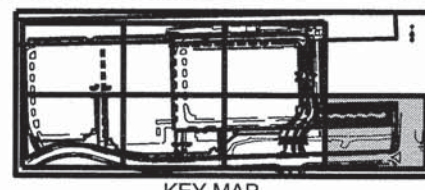
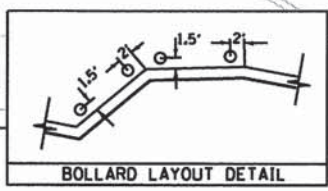
MATCH LINE SEE SHEET 28

IL. STATE ROUTE 59



- NOTES:**
1. PIPE SHALL BE SCHEDULE 40 STEEL PIPE.
 2. BOLLARD SHALL BE INSTALLED PLUMB IN ALL DIRECTIONS.
 3. THE TOP 8" OF THE OUTER EDGE OF THE CONCRETE ENCASMENT SHALL BE FORMED WITH A SINGLE USE FOUNDATION FORM, THIS FORM SHALL BE REMOVED PRIOR TO THE INSTALLATION OF THE ADJACENT PAVEMENT.
 4. THE 8" DIAMETER BOLLARD SHALL BE FILLED WITH P.C. CONCRETE.
 5. THE 8" DIAMETER BOLLARD SHALL BE COVERED WITH AN ENAMEL PAINT COLOR SAFETY YELLOW CONTRACTOR TO SUBMIT SAMPLE OF THE PAINT TO THE ENGINEER FOR APPROVAL PRIOR TO PAINTING

- NOTE:**
1. THE CONCRETE SIDEWALK SHALL BE JOINTED IN 6'X6' SQUARES. CONTRACTOR SHALL SUBMIT A JOINTING PLAN FOR APPROVAL BY THE ENGINEER AT LEAST 2 WEEKS PRIOR TO SCHEDULING CONCRETE POURS



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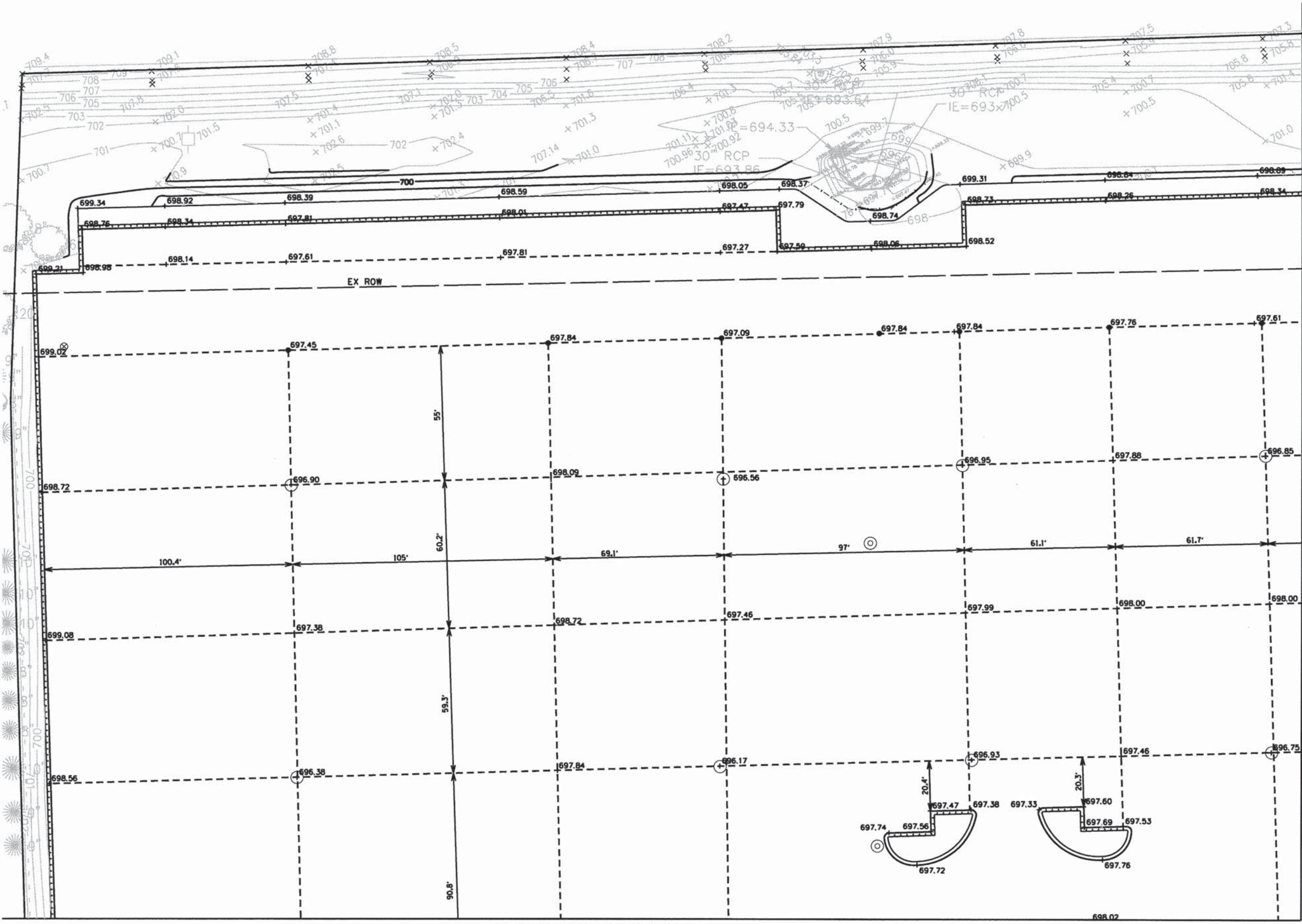
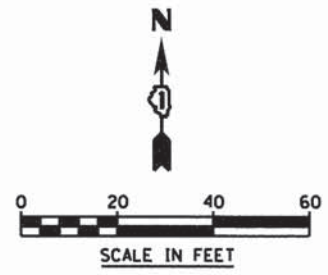
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LAYOUT PLAN

SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

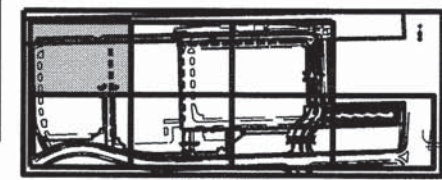
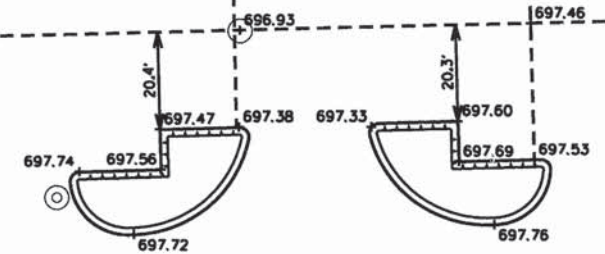
MUN	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	29
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT



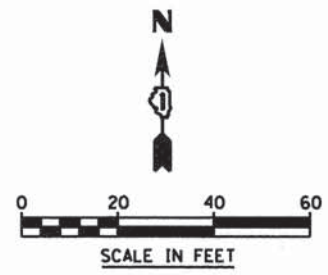
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MATCH LINE SEE SHEET 33



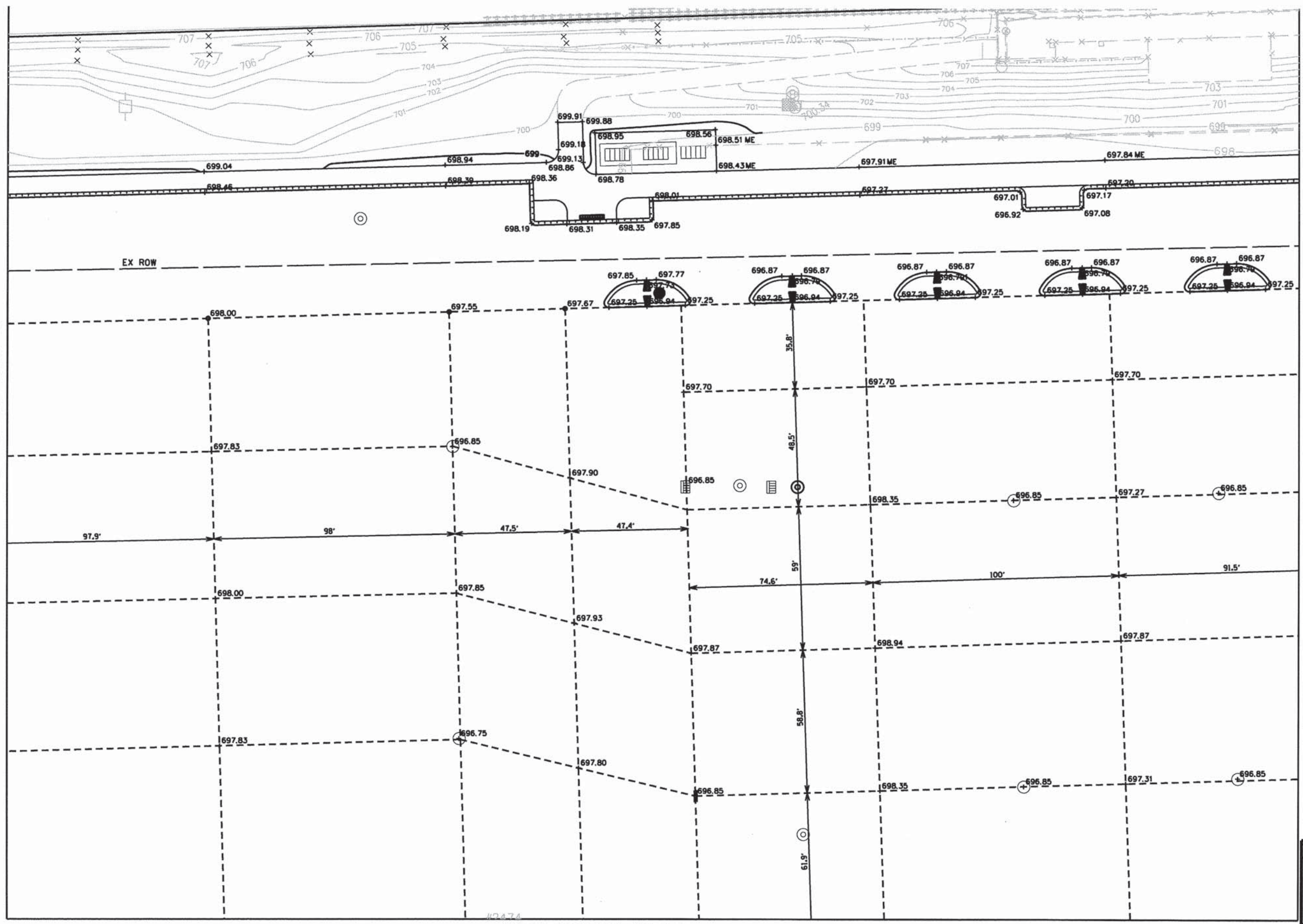
KEY MAP

V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = #USER#	DESIGNED - JH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRADING PLAN		MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -		SCALE: 1"=20'	SHEET 1 OF 7 SHEETS	STA. TO STA.	CONTRACT NO. 61B33 ILLINOIS FED. AID PROJECT				
	DATE - 10-09-15	REVISED -									

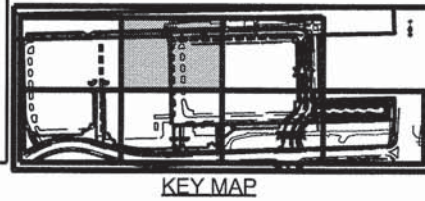


MATCH LINE SEE SHEET 30

MATCH LINE SEE SHEET 32



MATCH LINE SEE SHEET 34



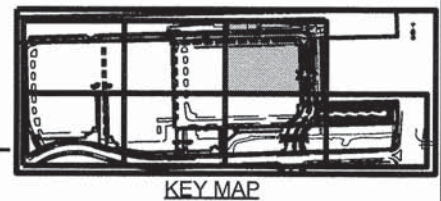
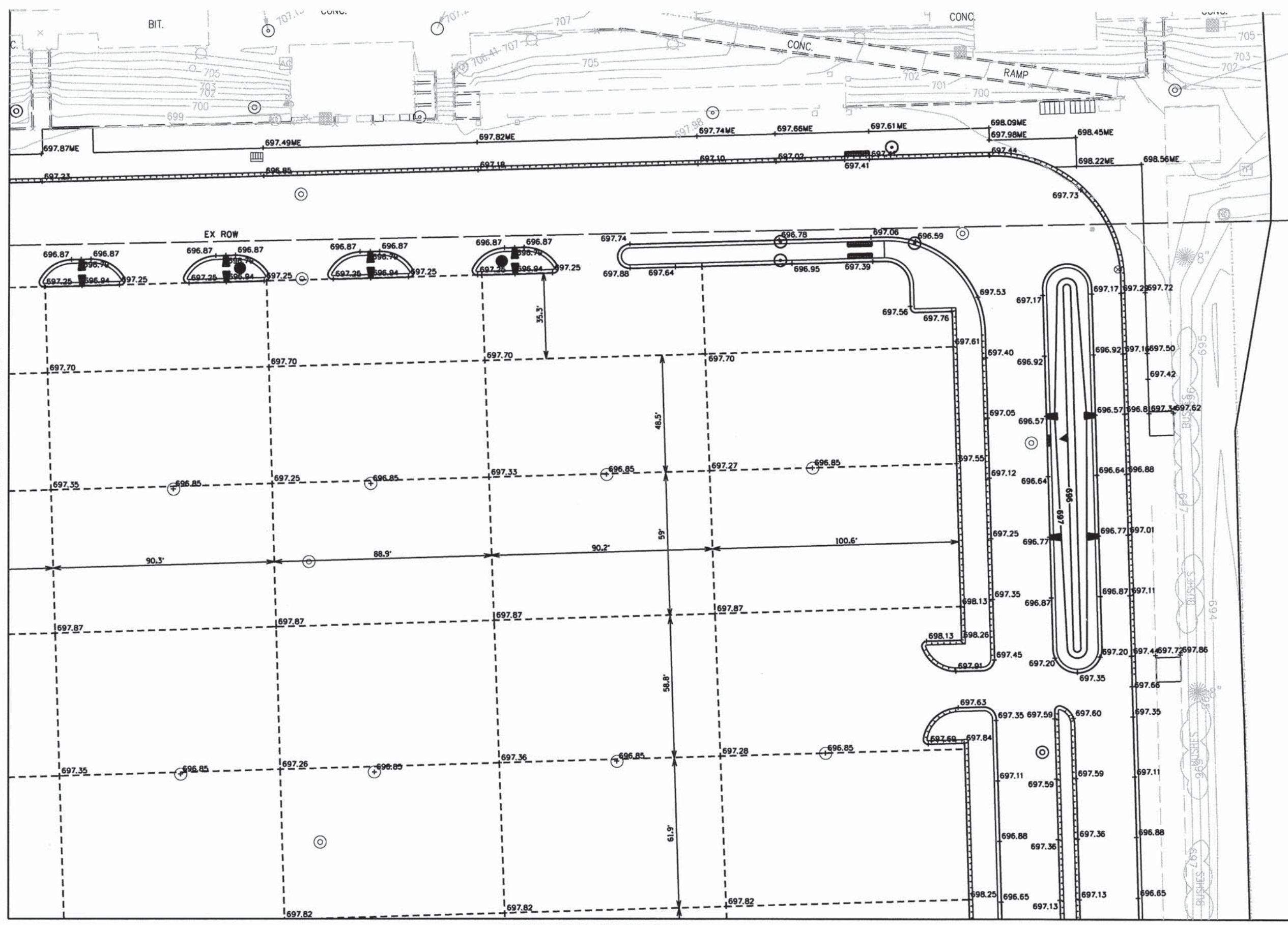
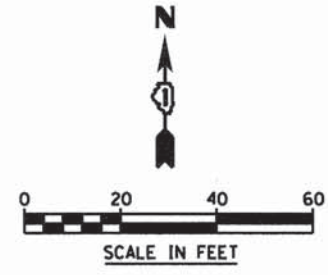
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	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	31
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



MATCH LINE SEE SHEET 31

MATCH LINE SEE SHEET 35



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USER NAME = #USER*
 DESIGNED - JH
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 CHECKED - MJR
 DATE - 10-09-15

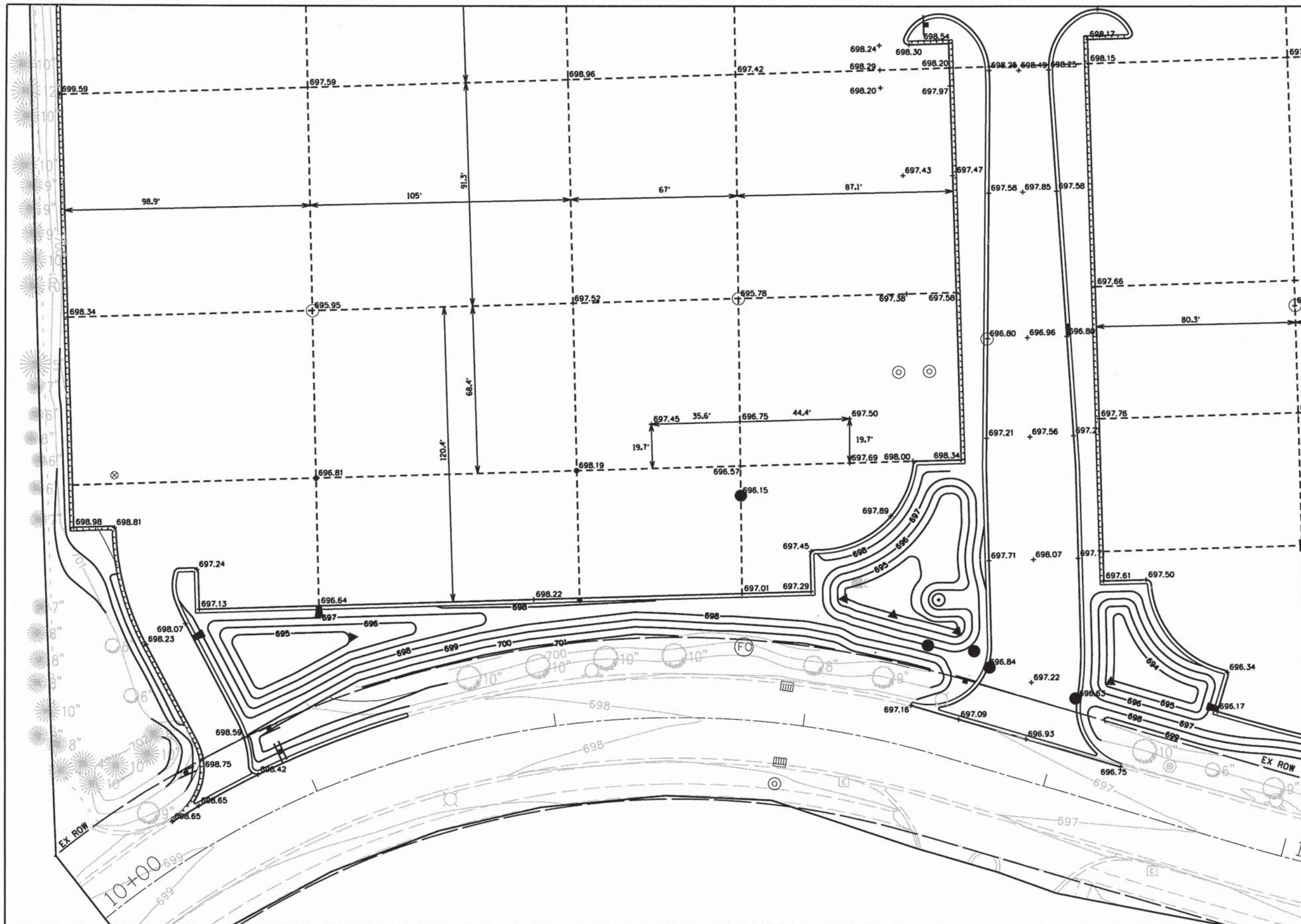
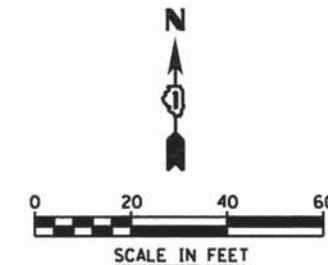
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

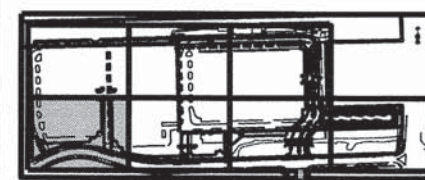
GRADING PLAN
 SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	32
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 30



MATCH LINE SEE SHEET 34



USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 10/9/2015

DESIGNED - JH
 DRAWN - HS
 CHECKED - MJR
 DATE - 10-09-15

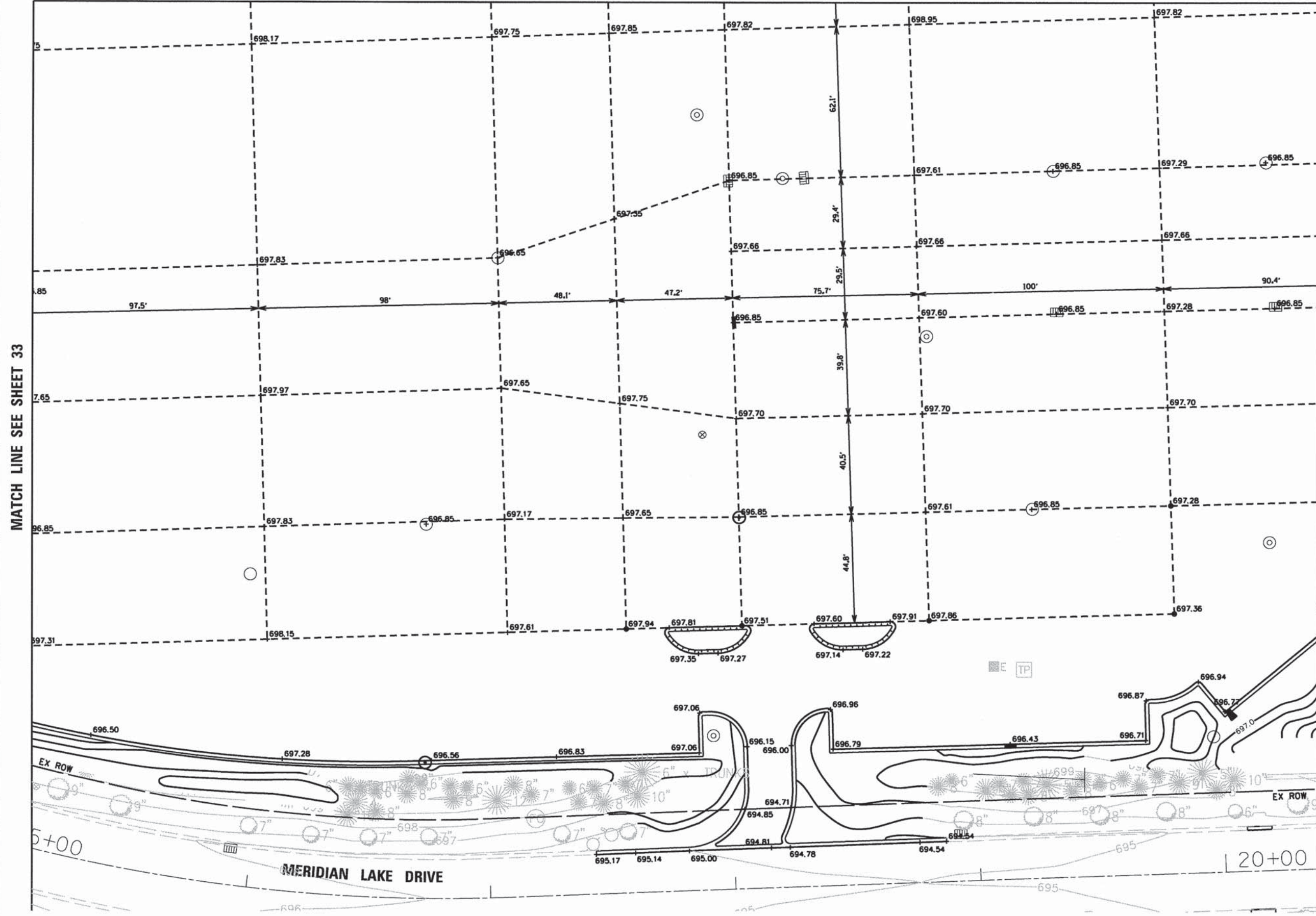
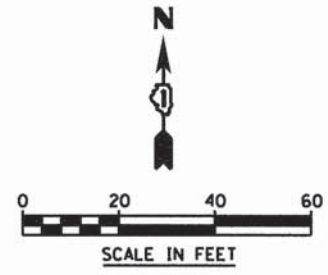
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GRADING PLAN
 SCALE: 1"=20'
 SHEET 4 OF 7 SHEETS
 STA. TO STA.

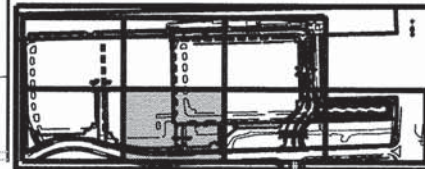
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	33
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 31



MATCH LINE SEE SHEET 33

MATCH LINE SEE SHEET 35



KEY MAP

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USER NAME = #USER#
PLOT SCALE = #SCALE#
PLOT DATE = 10/9/2015

DESIGNED - JH
DRAWN - HS
CHECKED - MJR
DATE - 10-09-15

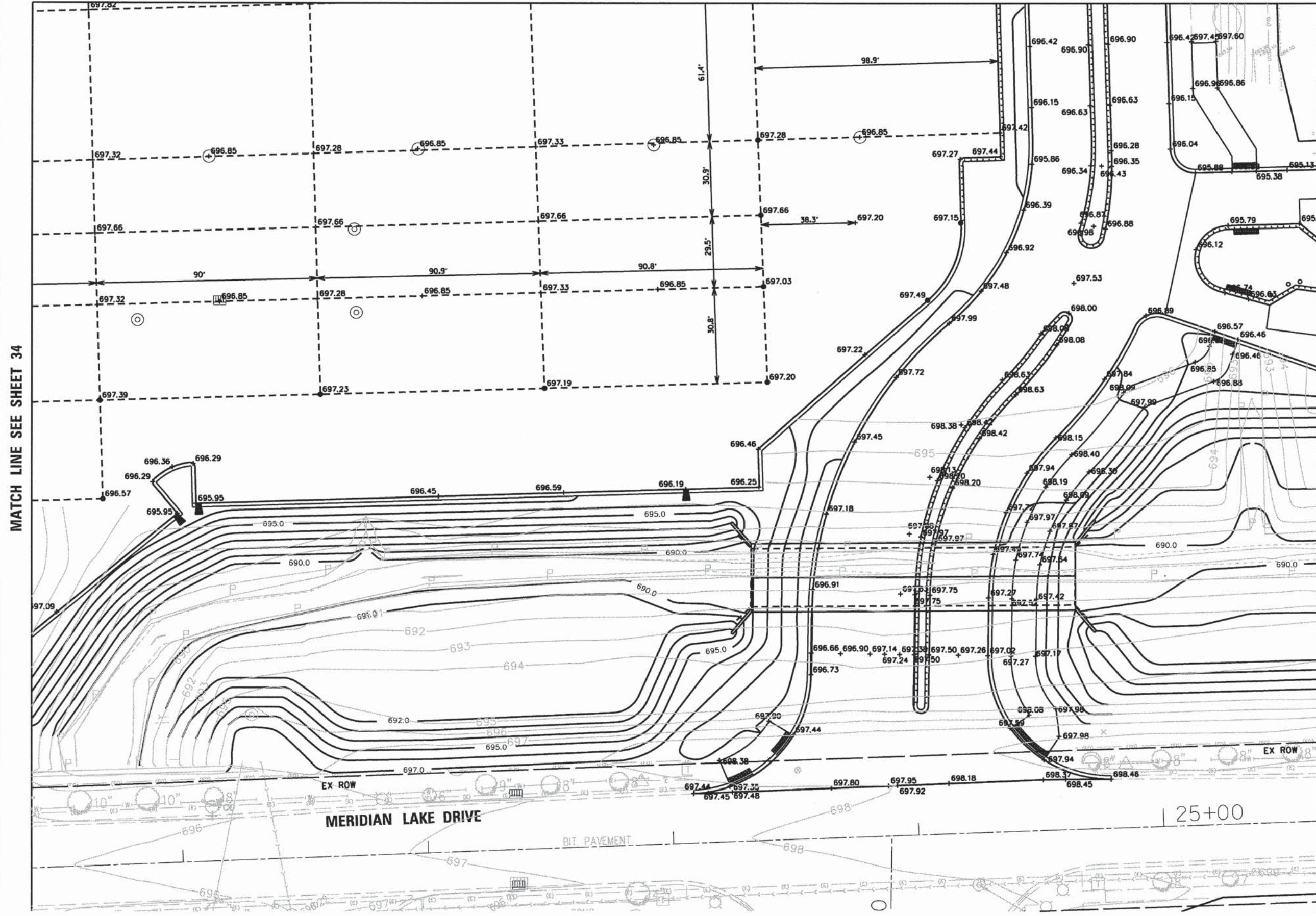
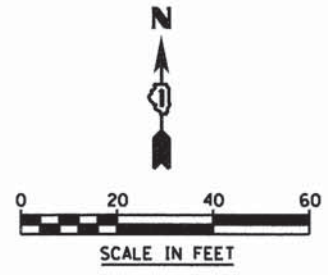
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN
SCALE: 1"=20'
SHEET 5 OF 7 SHEETS STA. TO STA.

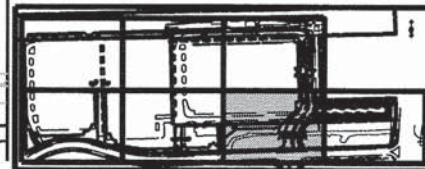
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	34
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 32



MATCH LINE SEE SHEET 34

MATCH LINE SEE SHEET 36



KEY MAP

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USER NAME = #USER#
PLOT SCALE = #SCALE#
PLOT DATE = 10/9/2015

DESIGNED - JH
DRAWN - HS
CHECKED - MJR
DATE - 10-09-15

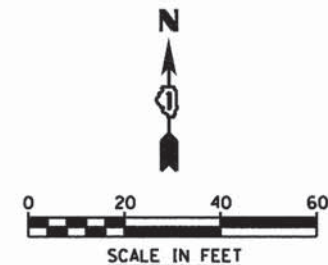
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN
SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	35
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT



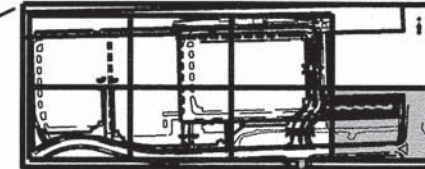
MATCH LINE SEE SHEET 35

IL. STATE ROUTE 59

MERIDIAN LAKE DRIVE

EX ROW

EX ROW



KEY MAP



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DRAWN - HS
CHECKED - MJR
DATE - 10-09-15

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REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	36
CONTRACT NO. 61B33				
(ILLINOIS) FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TYPE I OR II BARRICADES AND VERTICAL PANELS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AND SHALL BE PLACED AT A MAXIMUM OF 50 FOOT INTERVALS ALONG THE PROPOSED WORK ZONE, 25 FOOT INTERVALS IN TAPER SECTIONS, AND 10 FOOT INTERVALS AROUND RADII AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES WITH LEG EXTENSIONS SHALL BE USED WHERE NEEDED TO PROVIDE A MINIMUM DISTANCE OF 36" BETWEEN THE PAVEMENT AND TOP OF BARRICADE. BARRICADE IN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AND SIDE ROADS DURING CONSTRUCTION OPERATIONS. A QUANTITY OF "TEMPORARY PAVEMENT" HAS BEEN INCLUDED IN THE CONTRACT FOR THIS PURPOSE.
3. ADVANCE SIGNS PER HIGHWAY STANDARDS 701006-05, 701501-06, AND 701701-09 SHALL BE MAINTAINED THROUGH ALL STAGES OF CONSTRUCTION.
4. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CHANGE IN STAGING AT LEAST TWO (2) WORKING DAYS IN ADVANCE.
5. 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" PER SQUARE FOOT.
6. REMOVAL OF TEMPORARY PAVEMENT MARKINGS WHERE REQUIRED SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL".
7. ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES AND SHALL BE CONSIDERED AS PART OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".
8. THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE ROADWAY DURING ALL STAGES OF CONSTRUCTION. THE MOT PLANS PROVIDE ADDITIONAL DIRECTION TO RETROFIT OR INSTALL ADDITIONAL STORM SEWER EQUIPMENT TO DRAIN THE TEMPORARY PAVEMENT AND WORK AREA.
9. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901-02 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT. BARRICADES ARE TO BE INCIDENTAL TO "TRAFFIC CONTROL PROTECTION (SPECIAL)". ALL TYPE III BARRICADES SHALL HAVE TWO (2) FLASHING AMBER LIGHTS.
10. TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED ON ALL SURFACES OUTSIDE OF THE RESURFACING LIMITS AND ON FINISHED PAVEMENT. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING TAPE, TYPE III OF THE SIZE SPECIFIED.
11. A QUANTITY FOR "CHANGEABLE MESSAGE SIGN" HAS BEEN INCLUDED FOR USE WHEN DIRECTED BY THE ENGINEER.
12. FLAGGERS MUST BE CERTIFIED AND CARRY THEIR CERTIFICATION CARD ON THEM WHEN WORKING. PROPER STOP/SLOW PADDLES MUST BE UTILIZED AND ALL REQUIRED SAFETY GARMENTS MUST BE WORN ON THE JOB SITE. "FLAGGER" WARNING SIGNS MUST BE IN PLACE WHENEVER FLAGGERS ARE PRESENT. THESE SIGNS MUST BE COVERED OR REMOVED WHEN NOT APPLICABLE.
13. "CAUTION" TAPE OR RIBBON IS NOT TO BE USED BETWEEN BARRICADES.
14. HOT-MIX ASPHALT PAVEMENT NECESSARY DURING MAINTENANCE OF TRAFFIC CONSTRUCTION OPERATIONS IS TO BE MIX "D", NSO AND IS TO BE PAID FOR AS TEMPORARY PAVEMENT.
15. TYPE I OR TYPE II BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITHIN THE RIGHT-OF-WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.
16. TYPE I, II, AND / OR III BARRICADES WITH TWO-WAY FLASHING LIGHTS WILL BE REQUIRED TO GUIDE TRAFFIC AWAY FROM PAVEMENT AREAS CLOSED FOR CONSTRUCTION.
17. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, WARNING LIGHTS, AND SIGNS WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
18. WHEN REQUIRED, TRAFFIC SIGNS SHALL BE RELOCATED FROM EACH STAGE OF CONSTRUCTION AS PART OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
19. CONTRACTOR TO INSTALL CHANNELIZED BARRIERS OR TEMPORARY FENCE TO DIRECT PEDESTRIANS THROUGH THE CONSTRUCTION AREAS WHERE TEMP SIDEWALK HAS BEEN INSTALLED. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR TEMPORARY SIDEWALK. THE USE OF THE FENCE OR BARRIERS ARE UP TO THE ENGINEERS DISCRETION.

MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION

STAGE 1

THIS STAGE WILL CONSIST OF CLOSING THE EASTERN MOST OVER FLOW PARKING LOT AND EASTERN ACCESS DRIVE TO CONSTRUCT THE NEW MAIN ENTRANCE DRIVE AND BUS DROP-OFF AREA. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO EXISTING PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL THE DRAINAGE, CURB & GUTTERS, LIGHTING, SIGNAL EQUIPMENT, CULVERT, ROADWAY PAVEMENT AND THE THREE MOST EASTERN PARKING STALLS WITH FINAL HMA SURFACE AND STRIPED.

STAGE 2

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE THREE PROPOSED EASTERN MOST PARKING BAYS TO CONSTRUCT THE NEW PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO EXISTING PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT. THE NEW SIDEWALK AND PARKING LOT PAVEMENT ON THE NORTHWEST SIDE OF THE LOT WILL ALSO BE CONSTRUCTED TO PROVIDE ACCESS TO PEDESTRIANS IN LATER STAGES OF CONSTRUCTION.

STAGE 3

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE PROPOSED FOUR PARKING BAYS IN THE MIDDLE TO CONSTRUCT THE NEW PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO EXISTING AND PROPOSED PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT. THE CONTRACTOR WILL ALSO CONSTRUCT A TEMPORARY ACCESS POINT ON THE SOUTHWEST CORNER TO PROVIDE BETTER FLOW OF TRAFFIC IN LATER STAGES.

STAGE 4

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE PROPOSED THREE PARKING BAYS IN THE MIDDLE TO CONSTRUCT THE NEW PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO EXISTING AND PROPOSED PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT.

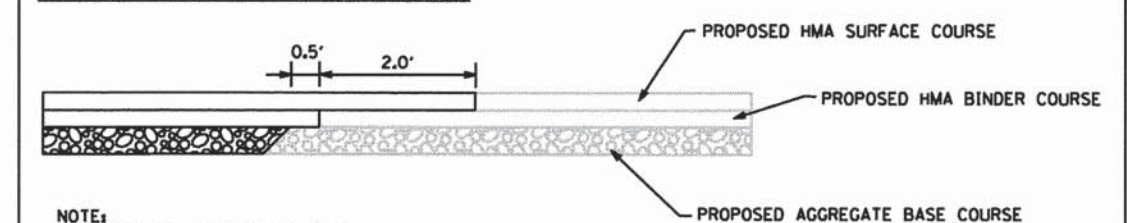
STAGE 5

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE PROPOSED FIVE PARKING BAYS TO THE WEST TO CONSTRUCT THE NEW PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE ACCESS TO EXISTING AND PROPOSED PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT.

STAGE 6

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE PROPOSED FIVE PARKING BAYS TO THE WEST TO REWORK THE EXISTING PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE ACCESS TO THE PROPOSED PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT.

DETAIL FOR PAVEMENT TIE IN BETWEEN STAGES



NOTE:
GRAY SCALED LINEWORK IS THE PREVIOUS STAGE
THE DARK LINEWORK IS THE NEXT STAGE TO BE CONSTRUCTED

MUN		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084		13-00300-00-PK	DUPAGE	107	37
					CONTRACT NO. 61833
ILLINOIS FED. AID PROJECT					




SUGGESTED STAGE OF CONSTRUCTION AND TRAFFIC CONTROL GENERAL NOTES			
SCALE: N.T.S.	SHEET 1	OF 7 SHEETS	STA. TO STA.

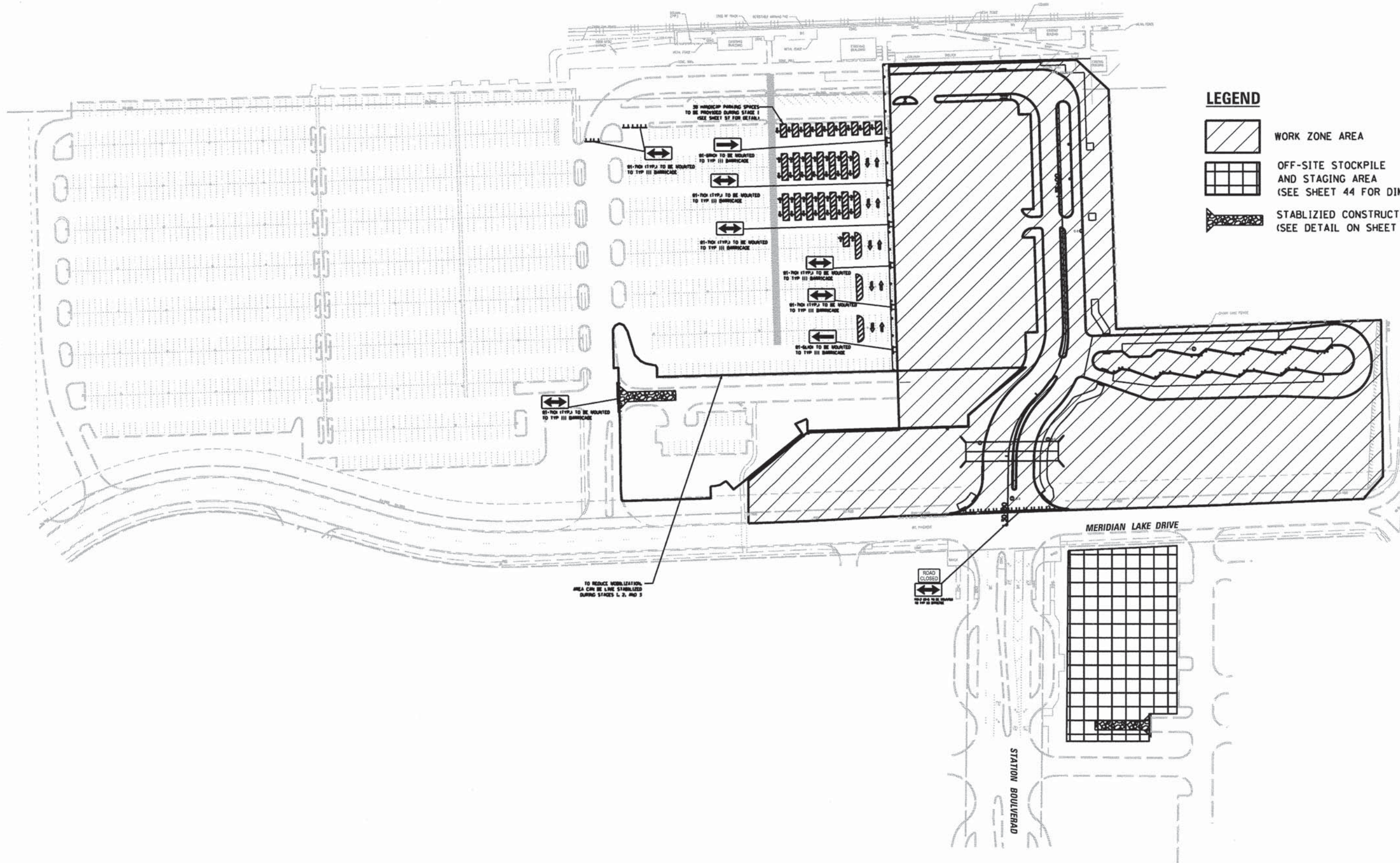
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	V3 Companies 7325 James Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = #USER#	DESIGNED - JH	REVISED -
		PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
		PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
			DATE - 10-09-15	REVISED -



LEGEND

-  WORK ZONE AREA
-  OFF-SITE STOCKPILE AND STAGING AREA (SEE SHEET 44 FOR DIMENSIONING)
-  STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET 48)



IL STATE ROUTE 59



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PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


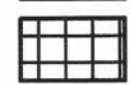

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 1**

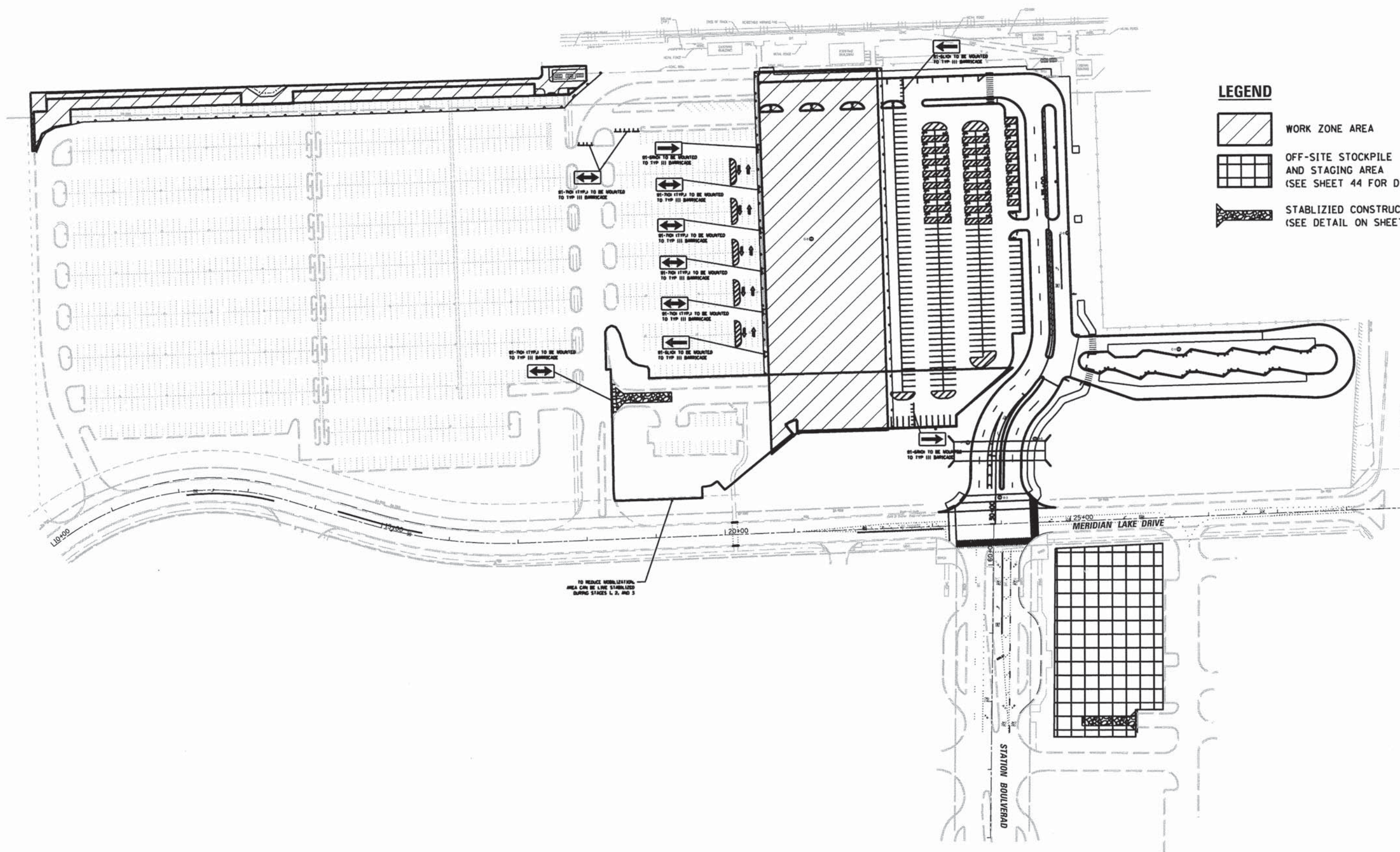
SCALE: N.T.S. SHEET 2 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	38
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



LEGEND

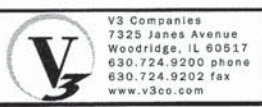
-  WORK ZONE AREA
-  OFF-SITE STOCKPILE AND STAGING AREA (SEE SHEET 44 FOR DIMENSIONING)
-  STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET 48)



IL STATE ROUTE 59

MERIDIAN LAKE DRIVE

STATION BOULEVARD



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USER NAME : #USER#
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CHECKED - MJR
DATE - 10-09-15

REVISED -
REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 2**

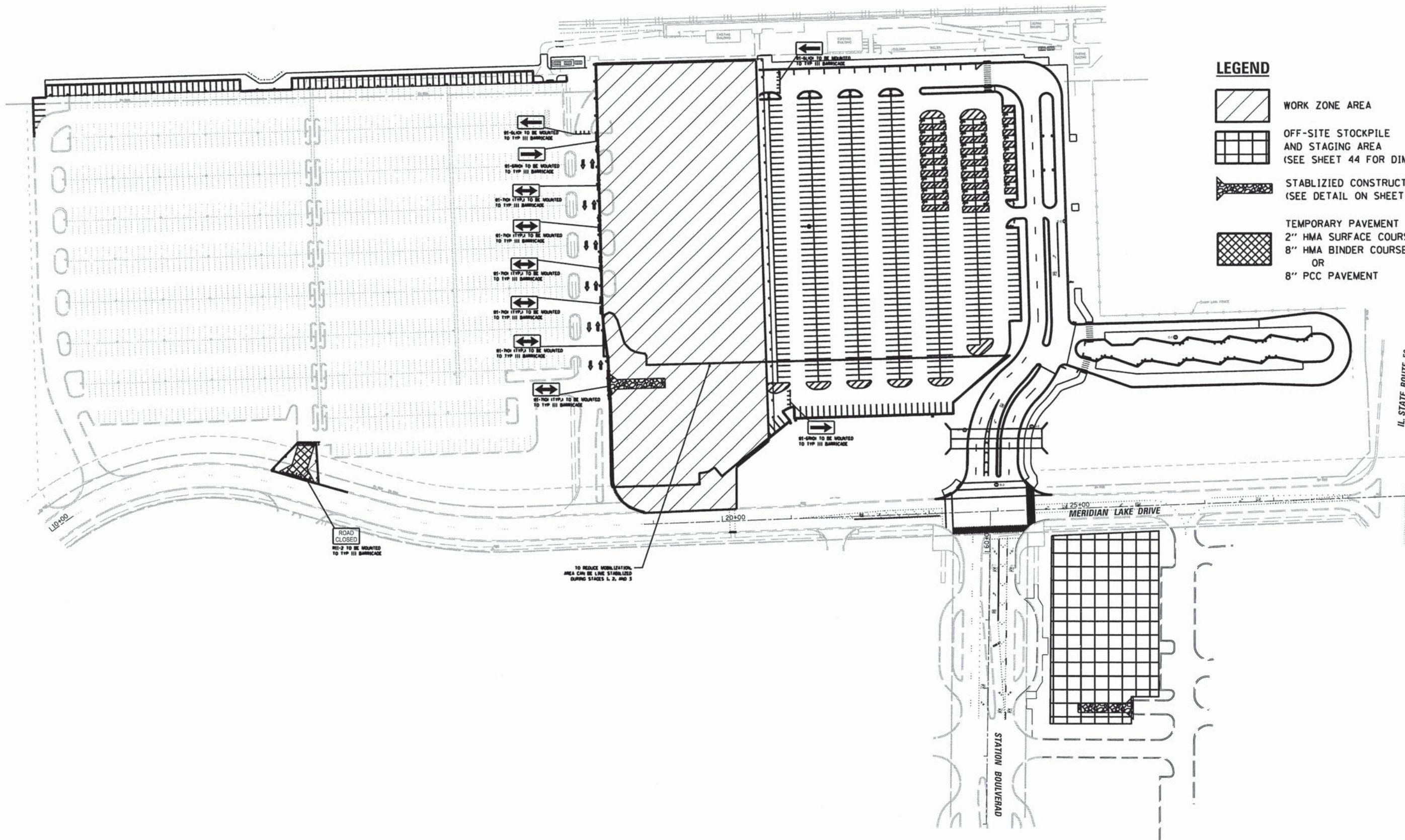
SCALE: N.T.S. SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK		107	39
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



LEGEND

-  WORK ZONE AREA
-  OFF-SITE STOCKPILE AND STAGING AREA (SEE SHEET 44 FOR DIMENSIONING)
-  STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET 48)
-  TEMPORARY PAVEMENT
2" HMA SURFACE COURSE
8" HMA BINDER COURSE
OR
8" PCC PAVEMENT



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DRAWN - JH
CHECKED - MJR
DATE - 10-09-15

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REVISED -
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REVISED -

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DEPARTMENT OF TRANSPORTATION**




**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 3**

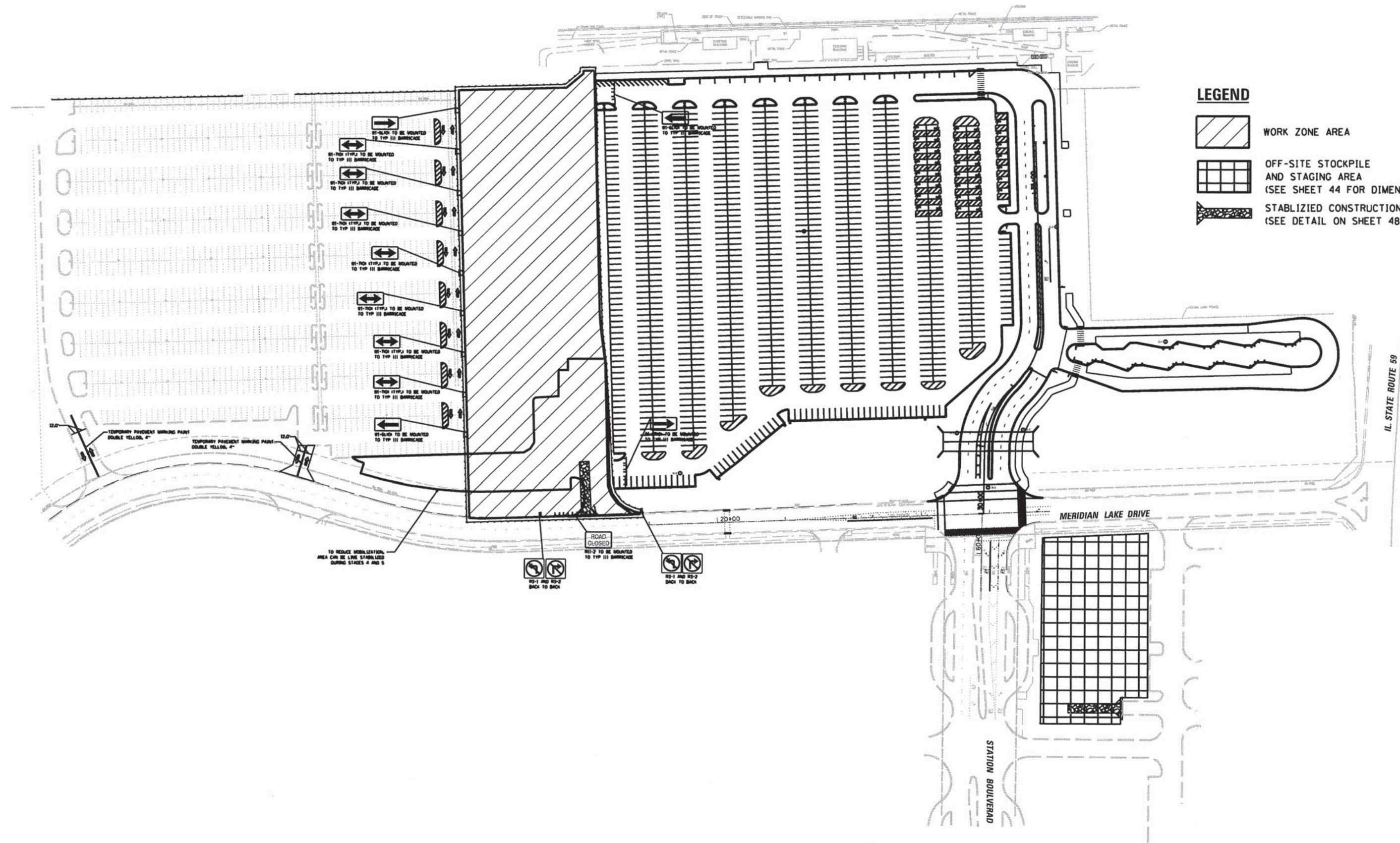
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	40
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET 4 OF 7 SHEETS STA. TO STA.



LEGEND

-  WORK ZONE AREA
-  OFF-SITE STOCKPILE AND STAGING AREA (SEE SHEET 44 FOR DIMENSIONING)
-  STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET 48)



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

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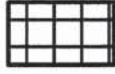

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 4**

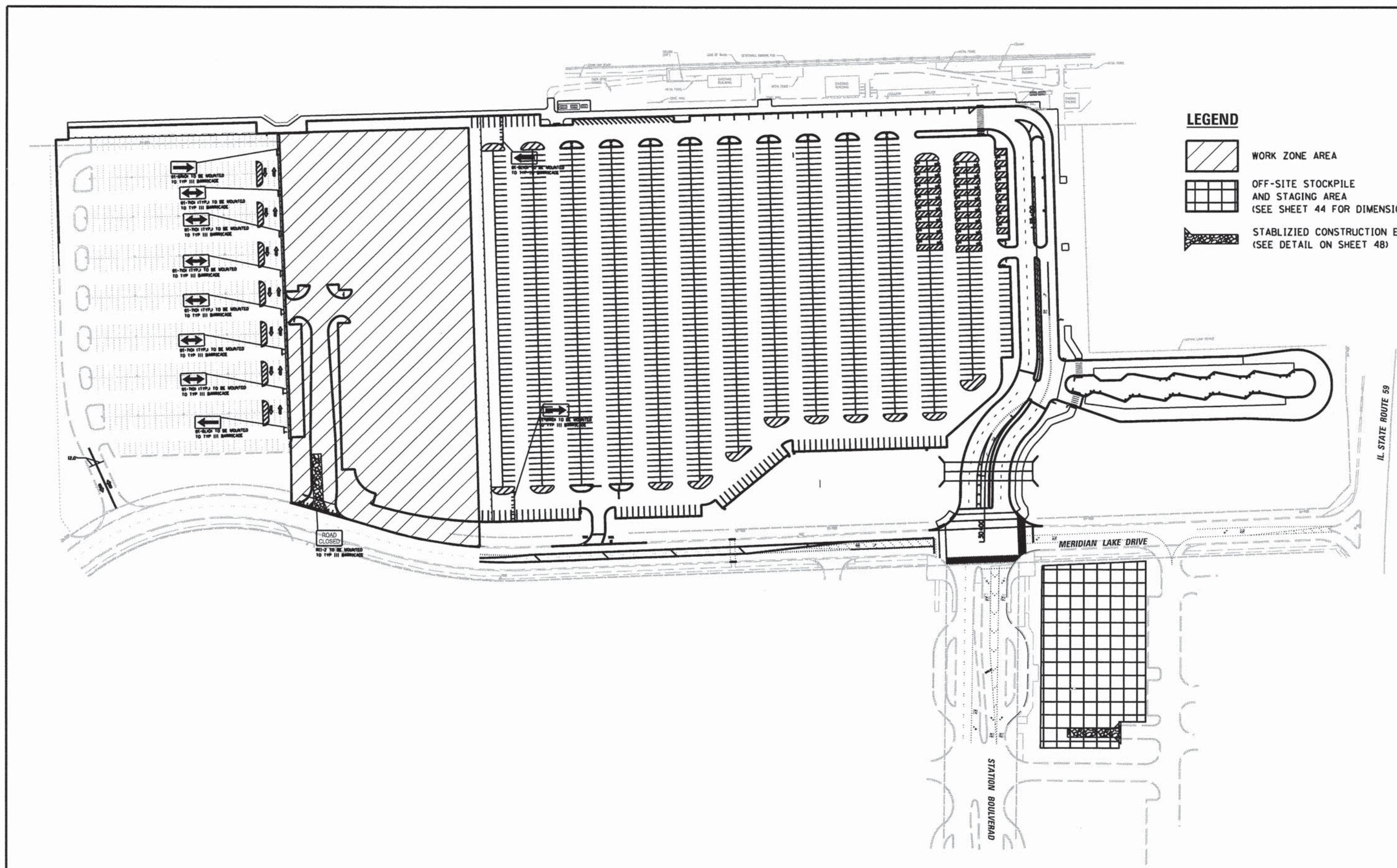
SCALE: N.T.S. SHEET 5 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	41
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



LEGEND

-  WORK ZONE AREA
-  OFF-SITE STOCKPILE AND STAGING AREA (SEE SHEET 44 FOR DIMENSIONING)
-  STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET 48)



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USER NAME = bhert
 PLOT SCALE = 1/8"
 PLOT DATE = 10/9/2015

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DRAWN - JH	REVISED -
CHECKED - MJR	REVISED -
DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**




**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
 STAGE 5**

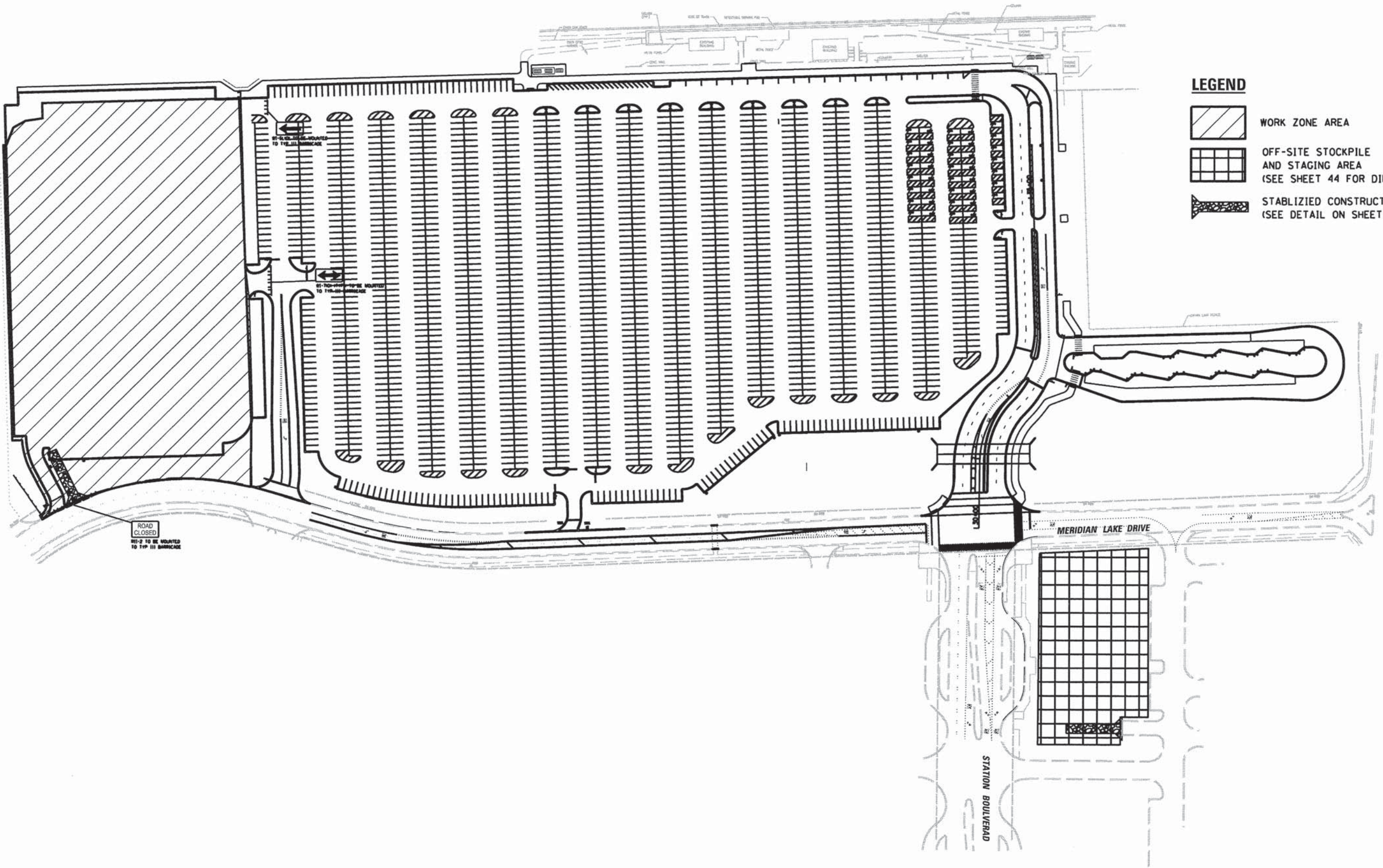
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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	42
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				



LEGEND

-  WORK ZONE AREA
-  OFF-SITE STOCKPILE AND STAGING AREA (SEE SHEET 44 FOR DIMENSIONING)
-  STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET 48)



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 Woodridge, IL 60517
 630.724.9200 phone
 630.724.9202 fax
 www.v3co.com

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 DRAWN - JH
 CHECKED - MJR
 DATE - 10-09-15

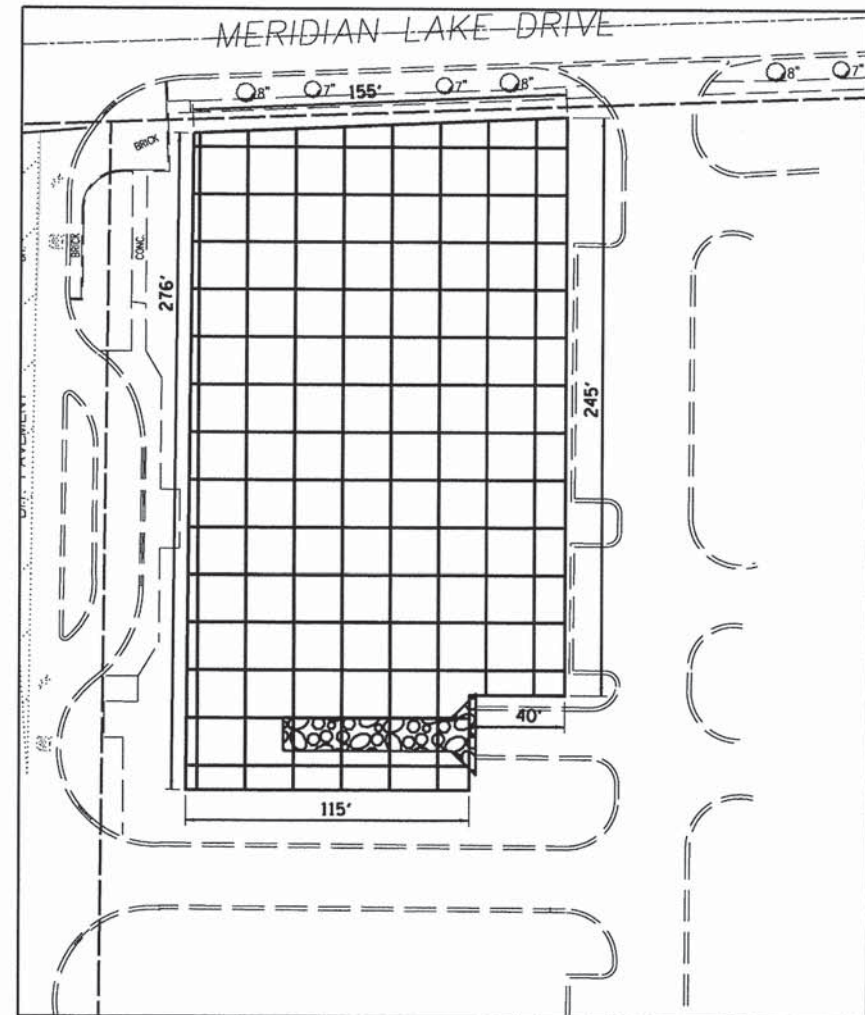
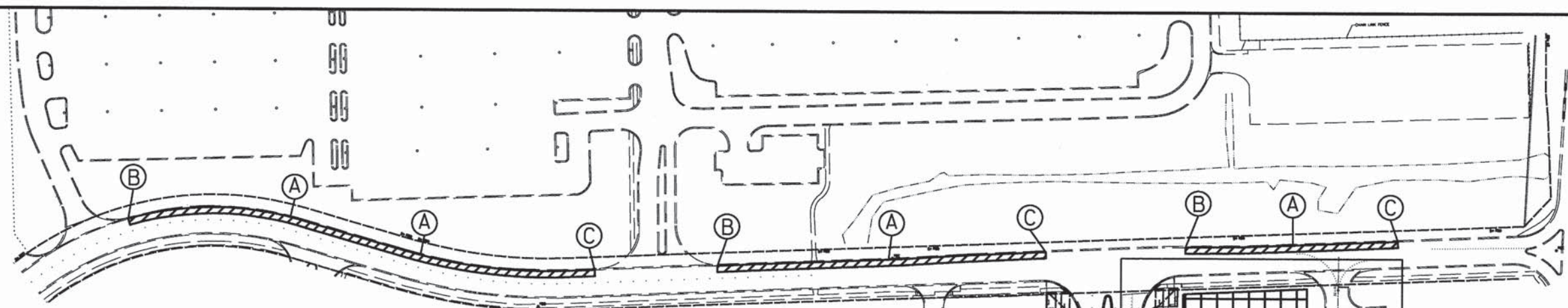
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**STATE OF ILLINOIS
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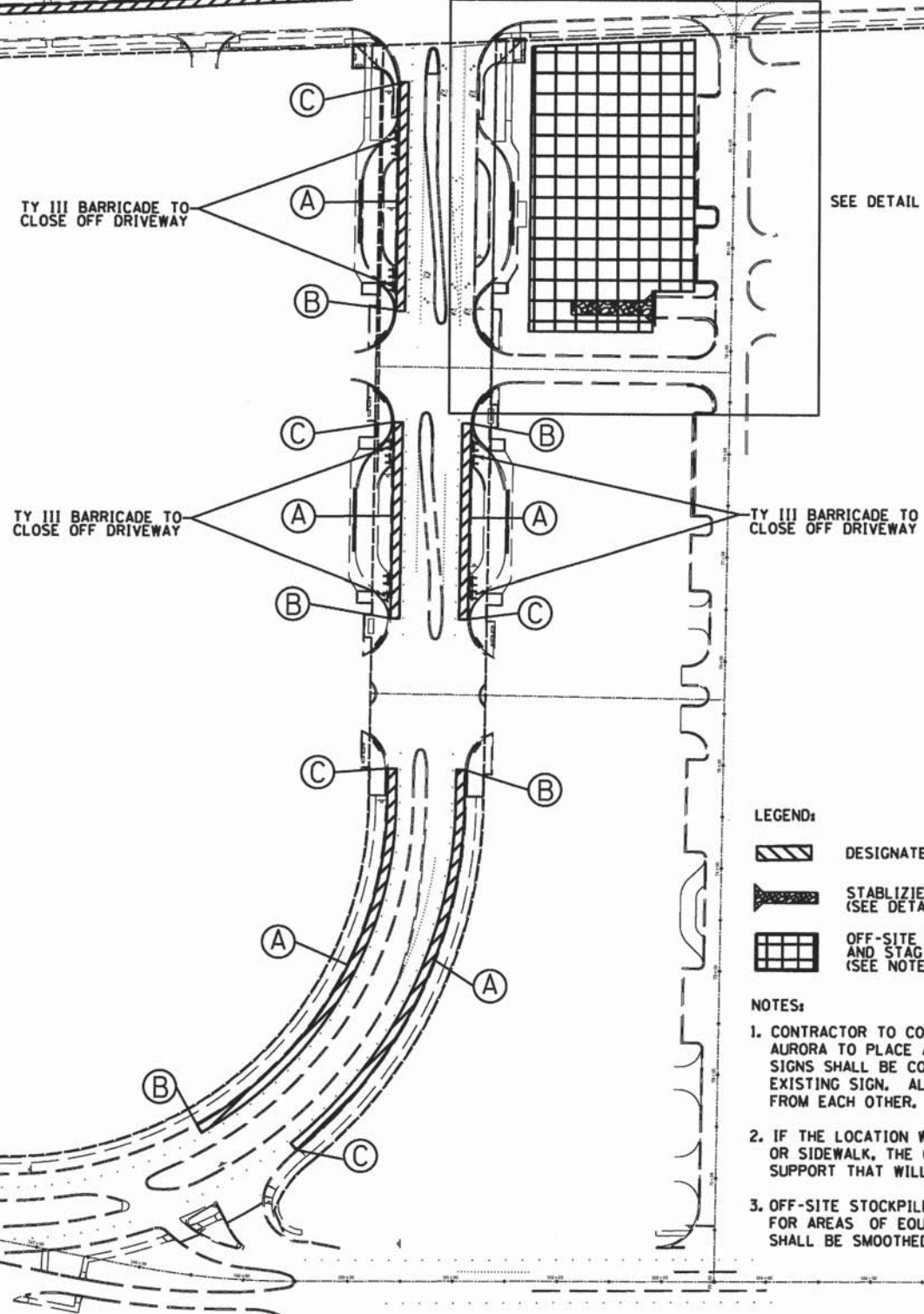
**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
 STAGE 6**

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	43
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



OFF-SITE STOCKPILE AND STAGING AREA DETAIL
N.T.S



R7-23 (12X18)
R7-2 (12X18)



R7-23 (12X18)
R7-2 (12X18)



R7-23 (12X18)
R7-2 (12X18)

LEGEND:

- DESIGNATED AREAS FOR ON STREET PARKING
- STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET 48)
- OFF-SITE STOCKPILE AND STAGING AREA (SEE NOTE 3)

NOTES:

1. CONTRACTOR TO COORDINATE WITH THE ENGINEER AND THE CITY OF AURORA TO PLACE ALL STREET PARKING SIGNS. ANY CONFLICTING SIGNS SHALL BE COVERED IN A MANNER TO NOT DO DAMAGE TO THE EXISTING SIGN. ALL SIGNS SHALL BE PLACED A MAXIMUM OF 250 FT FROM EACH OTHER.
2. IF THE LOCATION WHERE A SIGN IS TO BE INSTALLED IS PAVEMENT OR SIDEWALK, THE CONTRACTOR SHALL PROVIDE A TEMPORARY SIGN SUPPORT THAT WILL NOT DAMAGE THE EXISTING PAVEMENT OR SIDEWALK.
3. OFF-SITE STOCKPILE AND STAGING AREA SHALL HAVE STONE BEDDING FOR AREAS OF EQUIPMENT/MATERIALS STOCKPILING. STONE BEDDING SHALL BE SMOOTHED AND LEVELED UPON COMPLETION OF THE PROJECT.

FILE NAME = E:\2005\05086\05086.AUR.PH1\Drawings\	USER NAME = bherz	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY OFF SITE PARKING MAP	MUN 0084	SECTION 15-00300-00-PK	COUNTY DUPAGE	TOTAL SHEETS 107	SHEET NO. 44
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -	SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 61B33		ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/12/2015		DATE = 10-09-15	REVISED -							

STORM WATER POLLUTION PREVENTION PLAN NOTES

This plan has been prepared to comply with the NPDES permit number ILR10, issued by the Illinois Environmental Protection Agency (IEPA) for stormwater discharges from construction site activities.

The permittee must comply with all conditions of the General Permit. Any non-compliance constitutes a violation of the IEPA act and the Clean Water Act and can be grounds for enforcement action, permit revocation, modification, re-issuance, termination, or denial of a permit renewal.

1. Site Description

- a. The construction activity consists of parking lot reconstruction and storm sewer modifications.
- b. The intended sequence of major activities which disturb soils for major portions of the site is: demolition, clearing and grubbing, topsoil stripping, storm sewer installation, utility construction, grading, pavement construction, fine grading, lighting installation, placement of topsoil and establishment of permanent vegetation.
- c. The total area of the site is approximately 26.5 acres and all 26.5 acres are expected to be disturbed by excavation, storm sewer installation, grading, or other activities.
- d. The runoff coefficient of the site after construction activities are completed is estimated to be 0.80. The soil types that are prevalent on the site are Drummer silty clay loam, Varna silt loam, Graymont silt loam, and Chenoa silty clay loam. The project consists of predominantly type B/D soils according to the Soil Survey of DuPage County.
- e. This plan indicates drainage patterns and approximate slopes anticipated before and after major grading activities, areas of soil disturbance, the location of major structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water.
- f. The ultimate receiving water is the Waubensee Creek. The project area contains wetlands and waterways subject to US Army Corps of Engineers (ACOE) jurisdiction and wetlands regulated by the Kane County Stormwater Ordinance.

2. Controls

a. Erosion and Sediment Controls

(i) Stabilization Practices

- * Prior to earthwork, silt fence and inlet filter baskets shall be installed as indicated on the plan.
- * Upon construction of the storm sewer system and final installation of the inlet grates, inlet sediment filters shall be installed.
- * Depending on the timing between storm sewer installation and the grading associated with the parking lot modification, temporary seeding of all disturbed areas may be necessary.
- * Similarly, depending on the timing between grading activities and concrete gutter and curb installation, a second temporary seeding of all disturbed areas may be necessary.
- * Similarly, depending on the timing between concrete gutter and curb installation and final grading and topsoil re-spread, a third temporary seeding of all disturbed areas may be necessary.
- * Ultimately, all disturbed areas of the site shall be brought to final grade, re-spread with topsoil and established with permanent vegetation and covered with temporary erosion control blanket.
- * All adjacent streets must be kept clear of debris, inspected daily and cleaned when necessary.
- * Erosion control blanket and/or straw mulch with netting (depending on slope, length, and flow rates) shall be installed on all slopes in critical areas (wetland/buffer impacts, berms, etc.) immediately upon final grading.
- * Stockpiles are not anticipated as part of this project. If necessary during construction, stockpiles of soil and other building materials to remain in place more than three (3) days shall be furnished with erosion and sediment control measures (i.e. perimeter silt fence). Stockpiles, not being actively worked and to remain in place for 14 days or more shall receive temporary seeding.
- * These controls shall be actively maintained until final stabilization of those portions of the site upward of the perimeter control.

Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization of disturbed areas must be initiated within 1 working day of permanent or temporary cessation of earth disturbing activities and shall be completed as soon as possible but not later than 14 days from the initiation of stabilization work in an area. Exceptions to these time frames are specified as provided in paragraphs (A) and (B) below:

- (A) Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
- (B) On areas where construction activity has temporarily ceased and will resume after 14 days, a temporary stabilization method can be used. Temporary stabilization techniques and materials shall be described in the SWPPP.

(ii) Structural Practices

- * Disturbed areas of the site shall be temporarily stabilized and/or graded to drain towards sediment control measures.

b. Storm Water Management

- (i) Where velocities dictate, rip rap is to be placed at discharge locations to provide a non-erosive transition of flow from the structure to the water course.

c. Other Controls.

- (i) **Waste Disposal.** No solid materials, including building materials, shall be discharged to Waters of the State, except as authorized by a Section 404 permit.
- (ii) The Contractor is responsible for compliance with applicable State and/or local waste disposal and sanitary sewer or septic system regulations.

d. Approved State or Local Plans. Except where modified on this plan, all work proposed hereon shall be in accordance with the City of Aurora and DuPage County Ordinances and the requirements contained in Illinois Environmental Protection Agency's Illinois Urban Manual, latest edition. In the event of conflicting specifications with regard to site work issues designed by the engineer, the more stringent requirement shall govern.

3. Maintenance. The Contractor shall maintain the sediment and erosion control measures identified on this plan until the site is stabilized. Items in need of repair shall be addressed as soon as practicable. Maintenance items include inlet filters, silt fence, erosion control blanket, and temporary and/or permanent vegetation throughout the site. Furthermore, any soil that is transported off-site by equipment or vehicles onto the roadway shall be removed daily, or as requested by the local agency.

4. Inspections. Qualified personnel (provided by the permittee) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall. Qualified personnel means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a licensed professional engineer or other knowledgeable person who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction activities.

a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

b. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph 1 (Site Description) of these notes and pollution prevention measures identified in the plan in accordance with paragraph 2 (Controls) of these notes shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.

c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the permit coverage expires or is terminated. The report shall be signed by the Permittee.

d. The permittee shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the storm water pollution prevention plan observed during an inspection conducted, including those not required by the Plan. Submission shall be on forms provided by the Agency and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.

e. All reports of noncompliance shall be signed by the Permittee.

f. Reports of noncompliance shall be mailed to the Agency at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

5. Non-Storm Water Discharges. The following sources of non-stormwater may be combined with stormwater discharges associated with the industrial activity addressed in this plan.

- * Fire fighting activities
- * Water main/ hydrant flushing
- * Watering for dust control
- * Irrigation drainage for vegetative growth
- * Wash water where detergents are not used.
- * Uncontaminated ground water

Non-fire fighting discharges from water mains and pumps shall not be permitted to flow directly onto the soil without energy dissipaters sufficient to reduce velocities to a non-erosive rate. All site de-watering, including pump discharge shall pass through sediment control devices prior to leaving the site.

6. Retention of Records

- a. The permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at least three years from the date that the permit coverage expires or is terminated. This period may be extended by request of the Agency at any time.
- b. The permittee shall retain a copy of the storm water pollution prevention plan required by this permit at the construction site from the date of project initiation to the date of final stabilization.

7. Notice of Termination. Upon Final stabilization of the site the permittee shall submit a completed Notice of Termination in accordance with NPDES Permit No. ILR10.

8. Certification Statement. The following statement shall be signed prior to any work authorized by NPDES Permit No. ILR10 is performed at the site. The undersigned is responsible for implementation of all measures identified on this plan.

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Dated this _____ day of _____, 2009

By _____ Title _____

Company _____

Address _____

Telephone _____

Kane - DuPage Soil & Water Conservation District Notes

- a) Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed according to minimum standards and specifications in the Illinois Urban Manual latest edition.
- b) The Kane-DuPage Soil and Water Conservation District (KDSWCD) must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activities, and one week prior to the final inspection.
- c) A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.
- d) Prior to commencing land-disturbing activities in areas other than indicated on these plans (including but not limited to, additional phases of development and off-site borrow or waste areas) a supplementary erosion control plan shall be submitted to the owner for review by the KDSWCD.
- e) The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the KDSWCD.
- f) During dewatering operations, water will be pumped into sediment basins or silt traps. Dewatering directly into streams, wetlands, field tiles, or stormwater structures is prohibited.
- g) It is the responsibility of the landowner and/or general contractor to inform any sub-contractor(s) who may perform work on this project, of the requirements in implementing and maintaining these erosion control plans and the National Pollutant Discharge Elimination System (NPDES) permit requirements set forth by the Illinois EPA.

Soil Stabilization Chart for Erosion Control

Activity	Rate (lb.) PLS/Acre	Rate (lb.) PLS/1000 Sq. Ft.	Site Suitability			Seeding Period		
			Droughty	Well Drained	Wet	Spring	Summer	Dormant
Temporary Practices								
Mulching	3900	90				All Year		
Temporary Seeding								
Cereal (annual Ryegrass)	90	2.5	X	X	X	Early Spring - Sept 30		
Oats	90	2.5	X	X	X	Early Spring - July 1		
Permanent Practices								
Sodding	-	-				Early Spring - Nov 30		
Permanent Seeding								
Smooth Bromegrass	24	0.55	X	X	X	Early Spring - June 1	Aug 1 - Sept 1	Nov 1 - Mar 15
Tall Fescue	12	0.3		X	X	Early Spring - June 1	Aug 1 - Sept 1	Nov 1 - Mar 15
Redtop	2.5	0.06	X	X	X	Early Spring - June 1	Aug 1 - Sept 1	Nov 1 - Mar 15
Creeping Red Fescue	15	0.34	X	X	X	Early Spring - June 1	Aug 1 - Sept 1	Nov 1 - Mar 15
Switchgrass	8	0.2	X	X	X	Early Spring - June 15		Nov 1 - Mar 15

Notes:

See Illinois Urban Manual Practice Standards for specifications for all of the listed activities including but not limited to:
 Mulching - Code 875
 Temporary Seeding - Code 965
 Sodding - Code 925
 Permanent Vegetation - Code 880
 Erosion Control Blanket - Code 830



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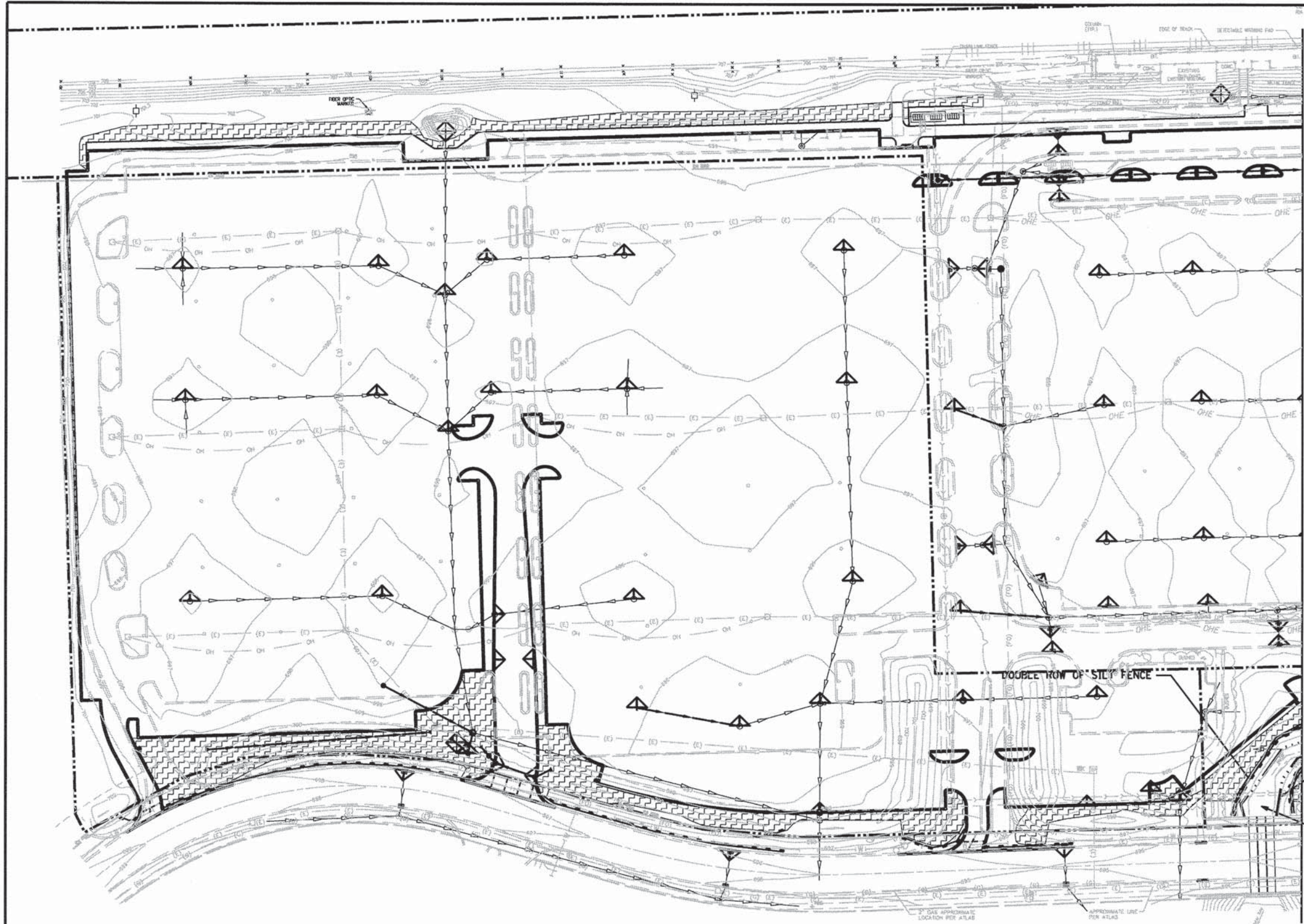
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION





EROSION AND SEDIMENT CONTROL NOTES
 SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	45
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



MATCHLINE SEE SHEET 47

LEGEND

-  INLET FILTERS
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
-  SEEDING CLASS 1A WITH TEMPORARY EROSION CONTROL BLANKET

NOTES:

1. CONCRETE WASHOUT SHOULD BE CONTAINED AT ALL TIMES. WASHOUT MATERIAL SHOULD NOT BE ALLOWED TO ENTER STORM SEWERS OR LEACH INTO THE SOIL UNDER ANY CIRCUMSTANCES. ANY WASTE SHOULD BE DISPOSED OF PROPERLY AND THE LOCATION OF THE WASHOUT SHOULD BE DESIGNATED WITH PROPER SIGNAGE.
2. ONCE WORK BEGINS ON THE PROPOSED DETENTION BASINS, COMPLETION AND STABILIZATION OF THE DETENTION AREAS SHOULD BE MADE A PRIORITY. WORK IN THESE AREAS SHOULD NOT BE PROLONGED IN ATTEMPT THAT ALL FINAL GRADING AND STABILIZATION CAN TAKE PLACE AT ONE TIME.
3. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

EXISTING WETLAND BOUNDARY

SEDIMENT BASIN SHALL BE PLACED UPSTREAM OF CULVERTS



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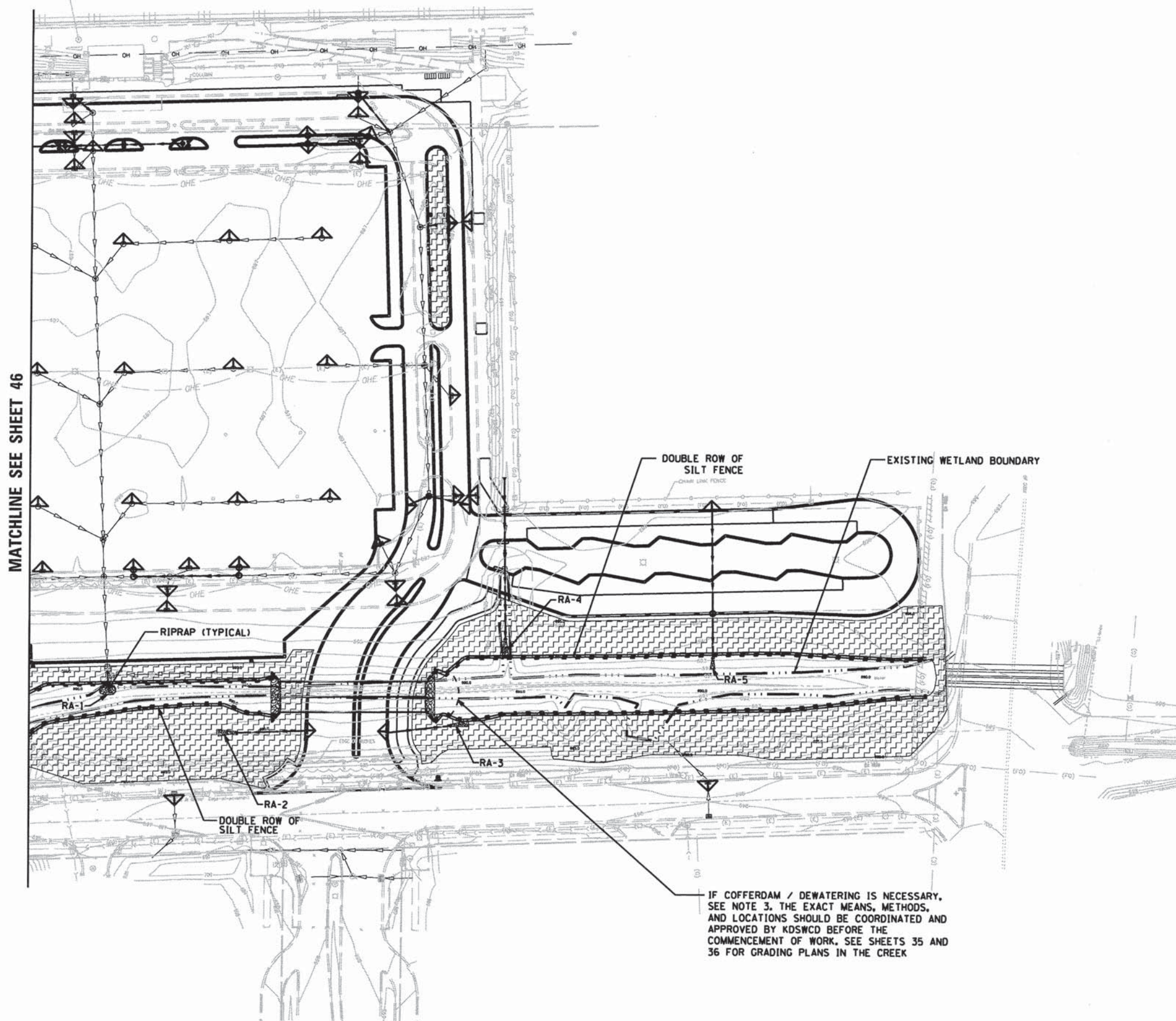
**STATE OF ILLINOIS
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EROSION AND SEDIMENT CONTROL PLAN





SCALE: 1"=50' SHEET 2 OF 4 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	46
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCHLINE SEE SHEET 46



LEGEND

-  INLET FILTERS
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
-  SEEDING CLASS 1A WITH TEMPORARY EROSION CONTROL BLANKET

NOTES:

1. CONCRETE WASHOUT SHOULD BE CONTAINED AT ALL TIMES. WASHOUT MATERIAL SHOULD NOT BE ALLOWED TO ENTER STORM SEWERS OR LEACH INTO THE SOIL UNDER ANY CIRCUMSTANCES. ANY WASTE SHOULD BE DISPOSED OF PROPERLY AND THE LOCATION OF THE WASHOUT SHOULD BE DESIGNATED WITH PROPER SIGNAGE.
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3. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.



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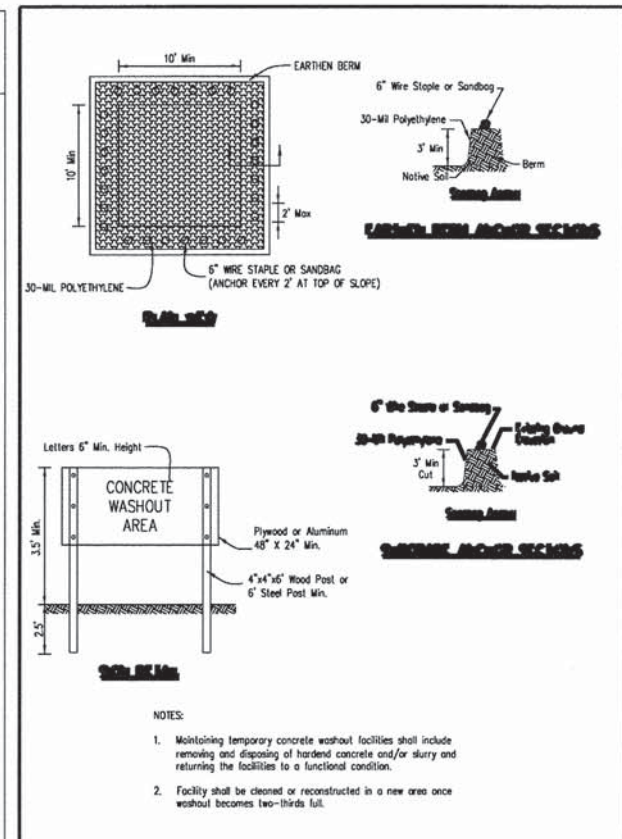
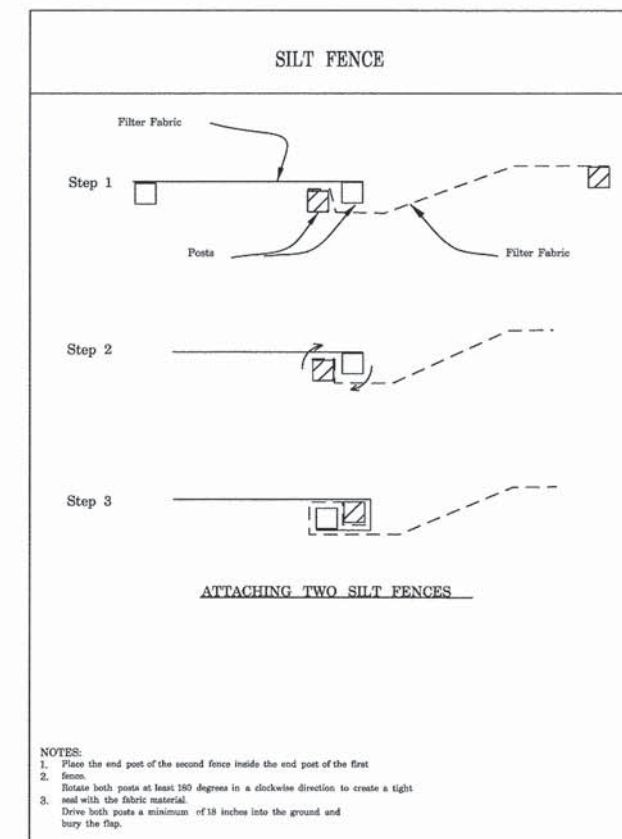
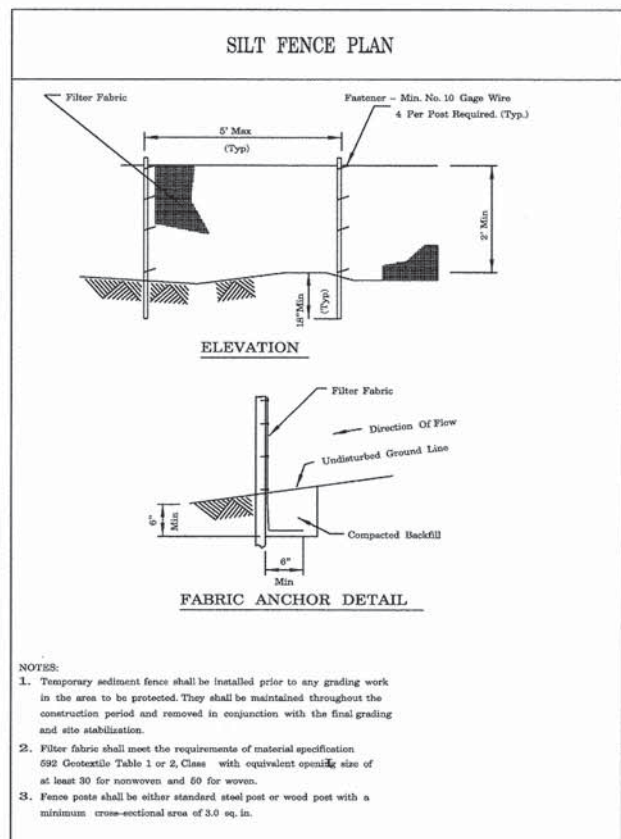
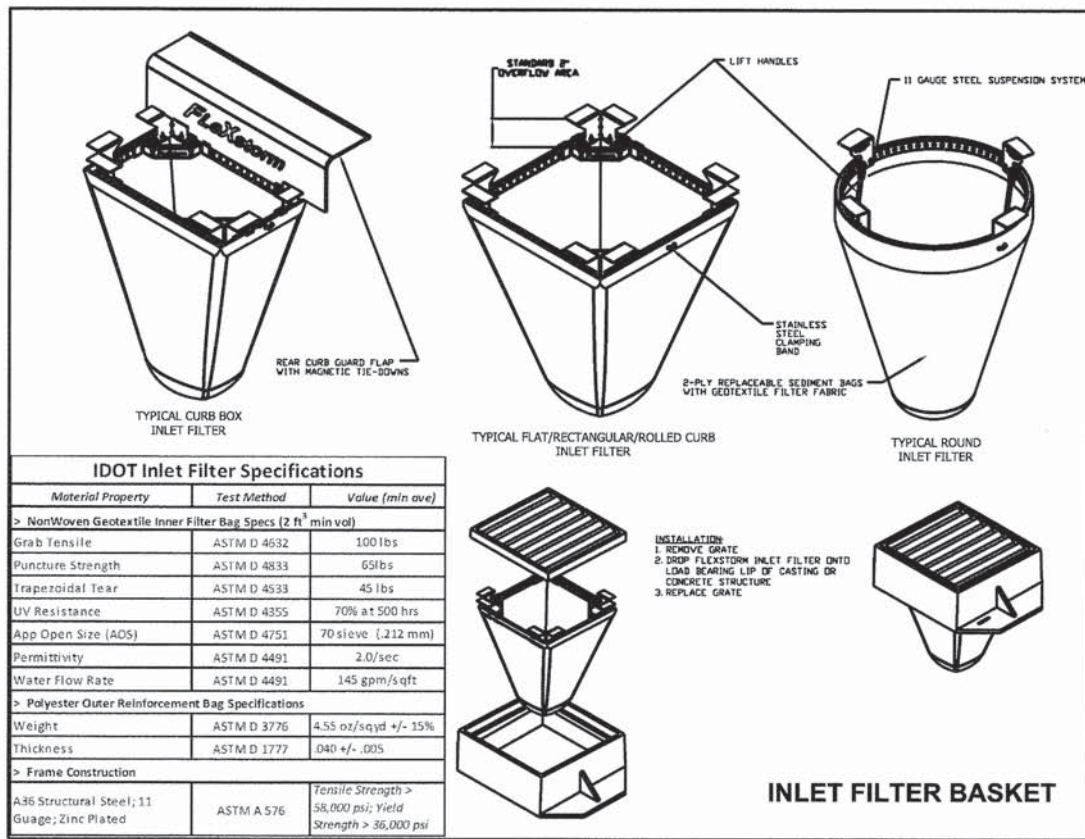
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET 3 OF 4 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61B33				

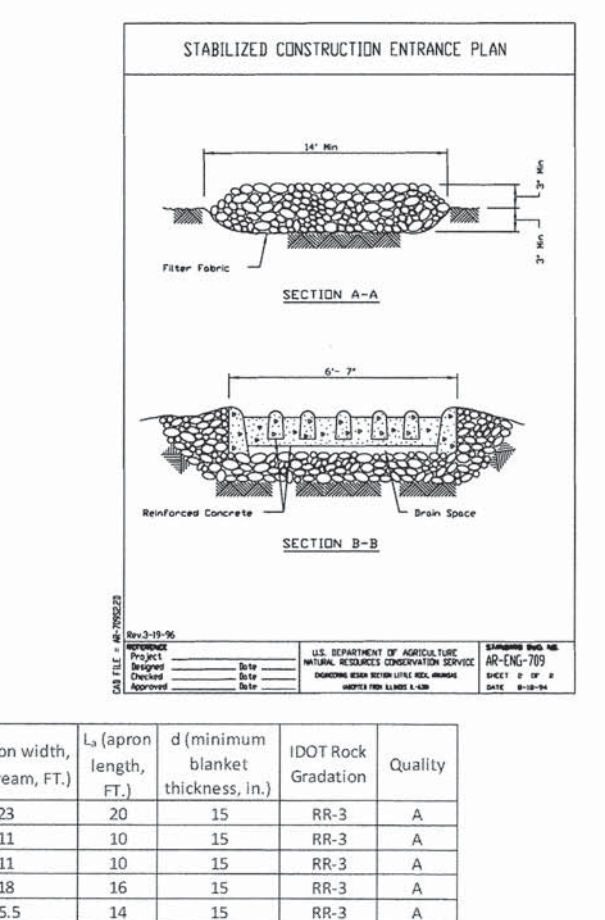
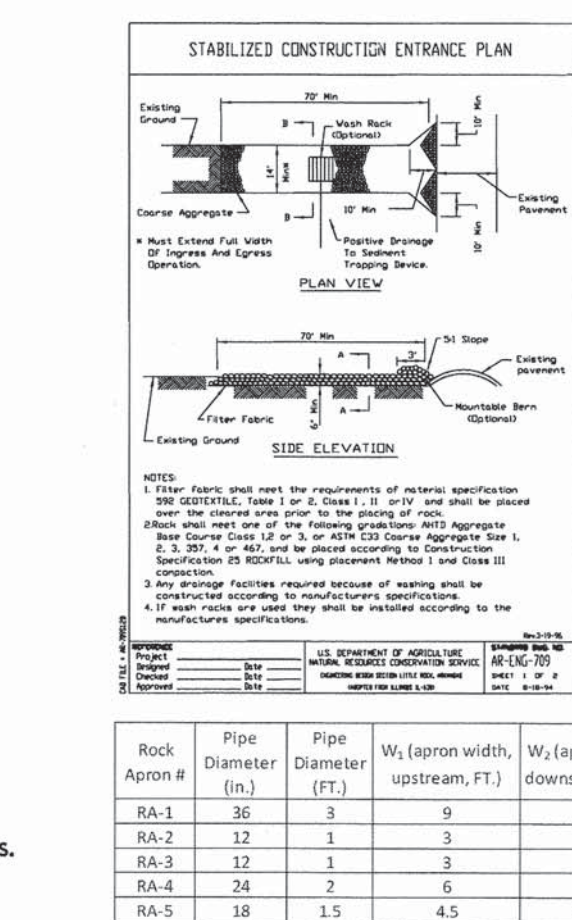
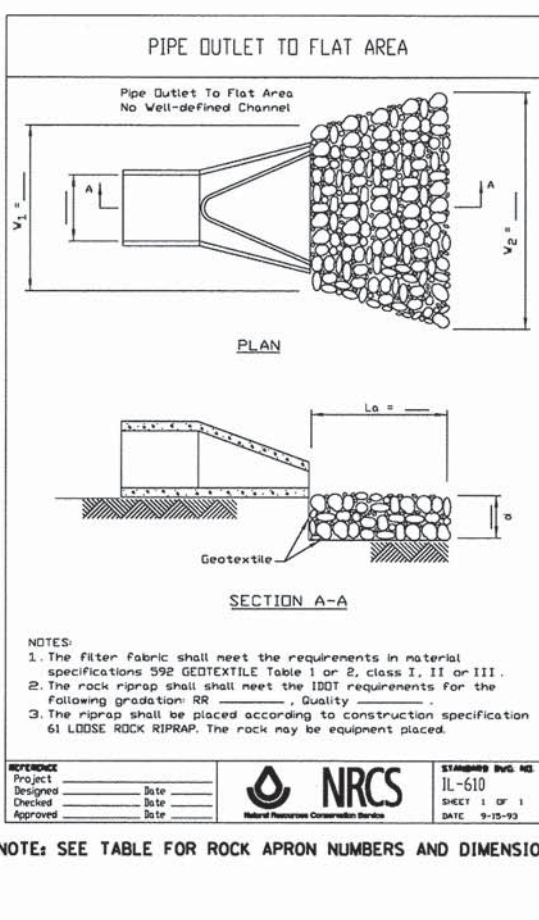
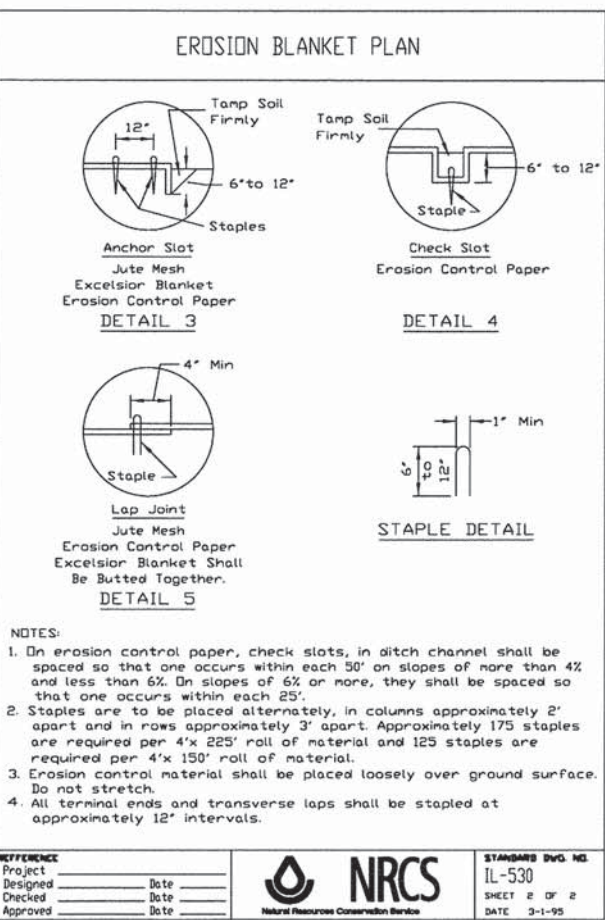
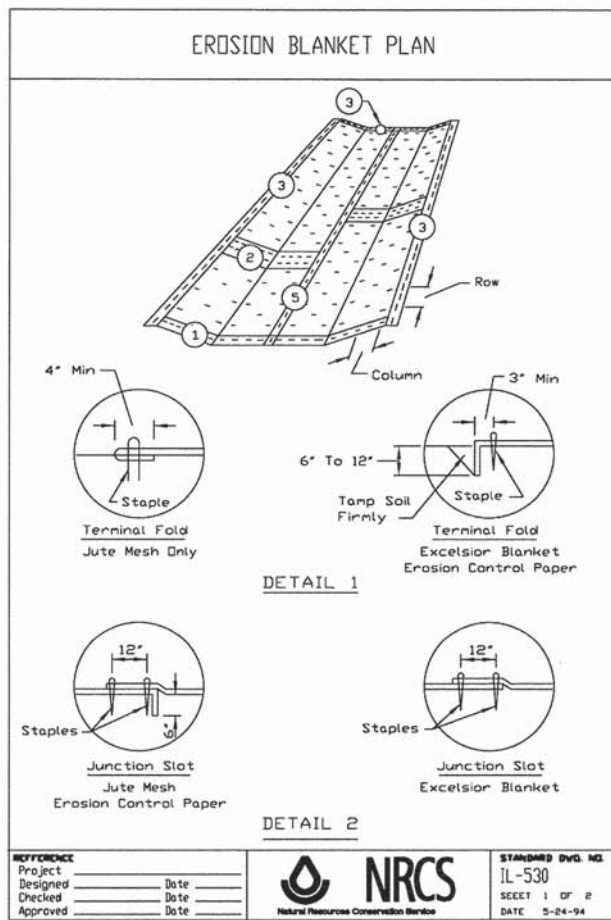
ILLINOIS FED. AID PROJECT



REFERENCE Project: _____ Date: _____		STANDARD DWG. NO. IL-620
Designed: _____ Date: _____		SHEET 1 OF 2
Checked: _____ Date: _____		DATE 11-09-04
Approved: _____ Date: _____		

REFERENCE Project: _____ Date: _____		STANDARD DWG. NO. IL-620(W)
Designed: _____ Date: _____		SHEET 2 OF 2
Checked: _____ Date: _____		DATE 1-09-09
Approved: _____ Date: _____		

REFERENCE Project: _____ Date: _____		STANDARD DWG. NO. AR-ENG-709
Designed: _____ Date: _____		SHEET 1 OF 2
Checked: _____ Date: _____		DATE 8-18-94
Approved: _____ Date: _____		

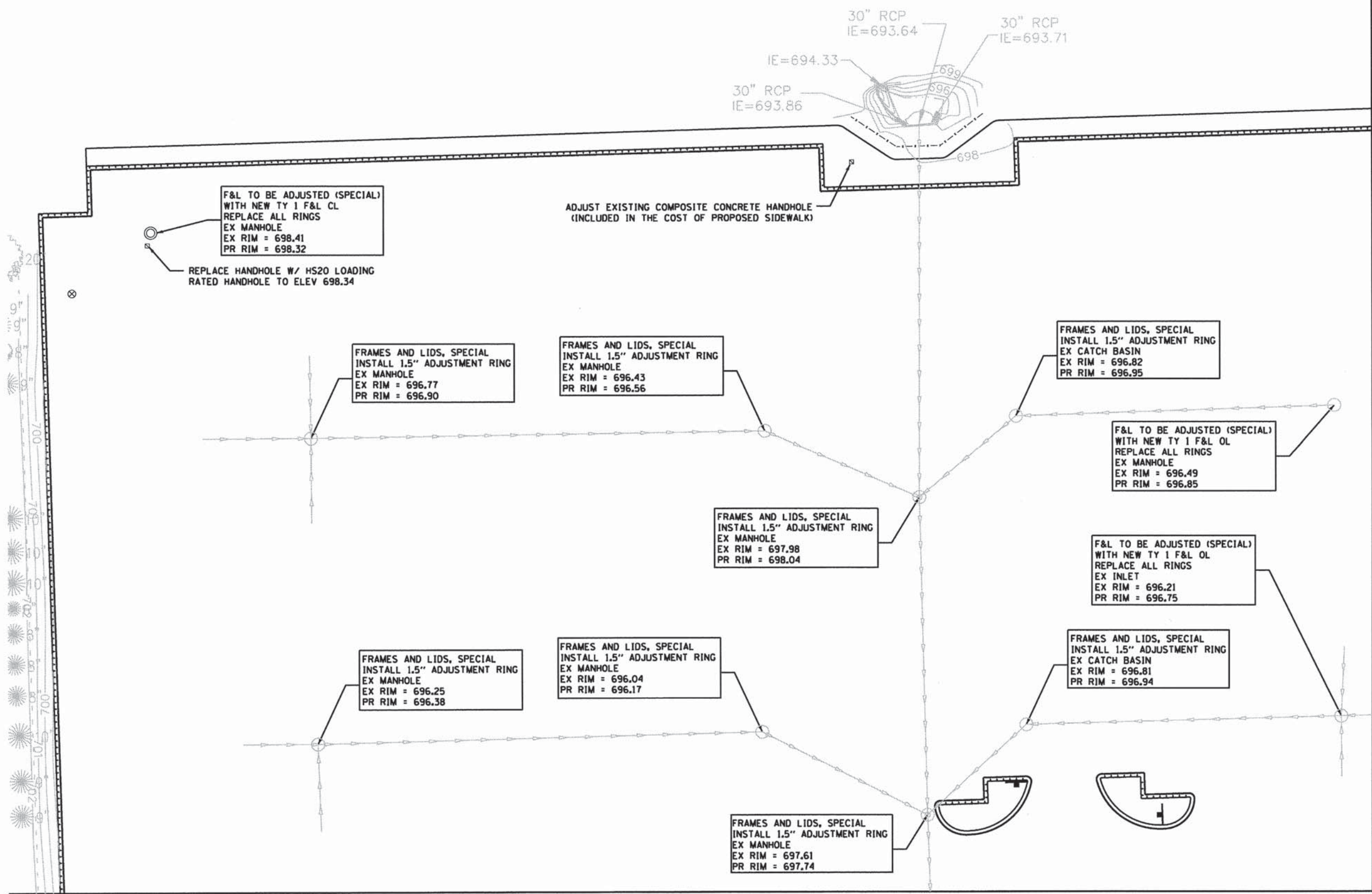
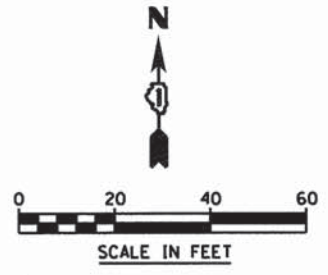


V3 Companies 7325 Janes Avenue Woodridge, IL 60517 830.724.9200 phone 830.724.9202 fax www.v3co.com	USER NAME = #USER# PLOT SCALE = #SCALE# PLOT DATE = 10/9/2015	DESIGNED - HEV DRAWN - HS CHECKED - MJR DATE - 10-09-15	REVISED - REVISED - REVISED - REVISED -
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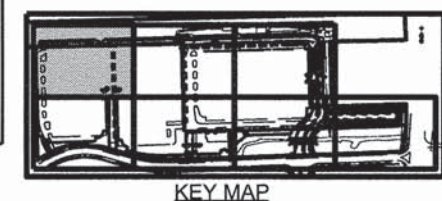
STATE OF ILLINOIS		DEPARTMENT OF TRANSPORTATION	
EROSION AND SEDIMENT CONTROL DETAILS			
SCALE: N.T.S.	SHEET 4 OF 4 SHEETS STA.	TO STA.	

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	48
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



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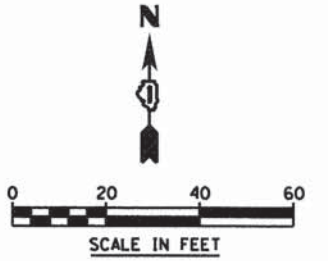
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STATE OF ILLINOIS
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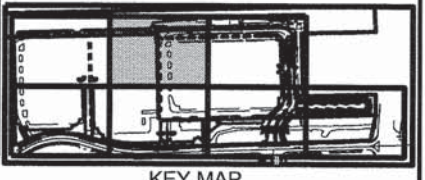
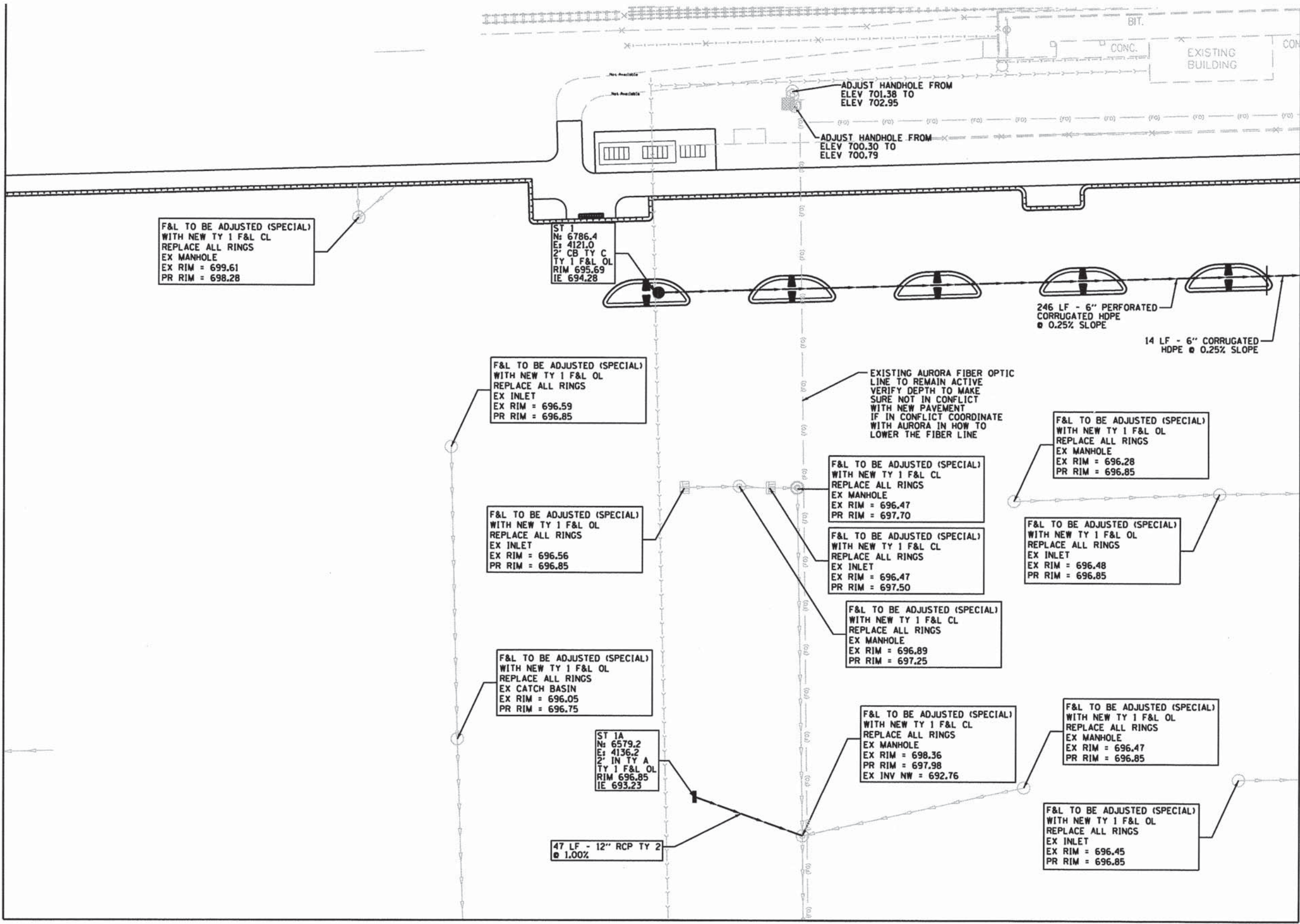
DRAINAGE AND UTILITY PLAN
 SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	49
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



MATCH LINE SEE SHEET 49

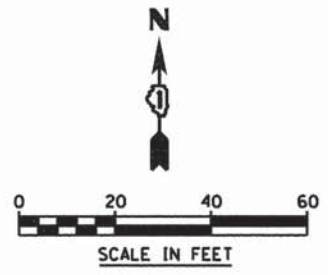
MATCH LINE SEE SHEET 51



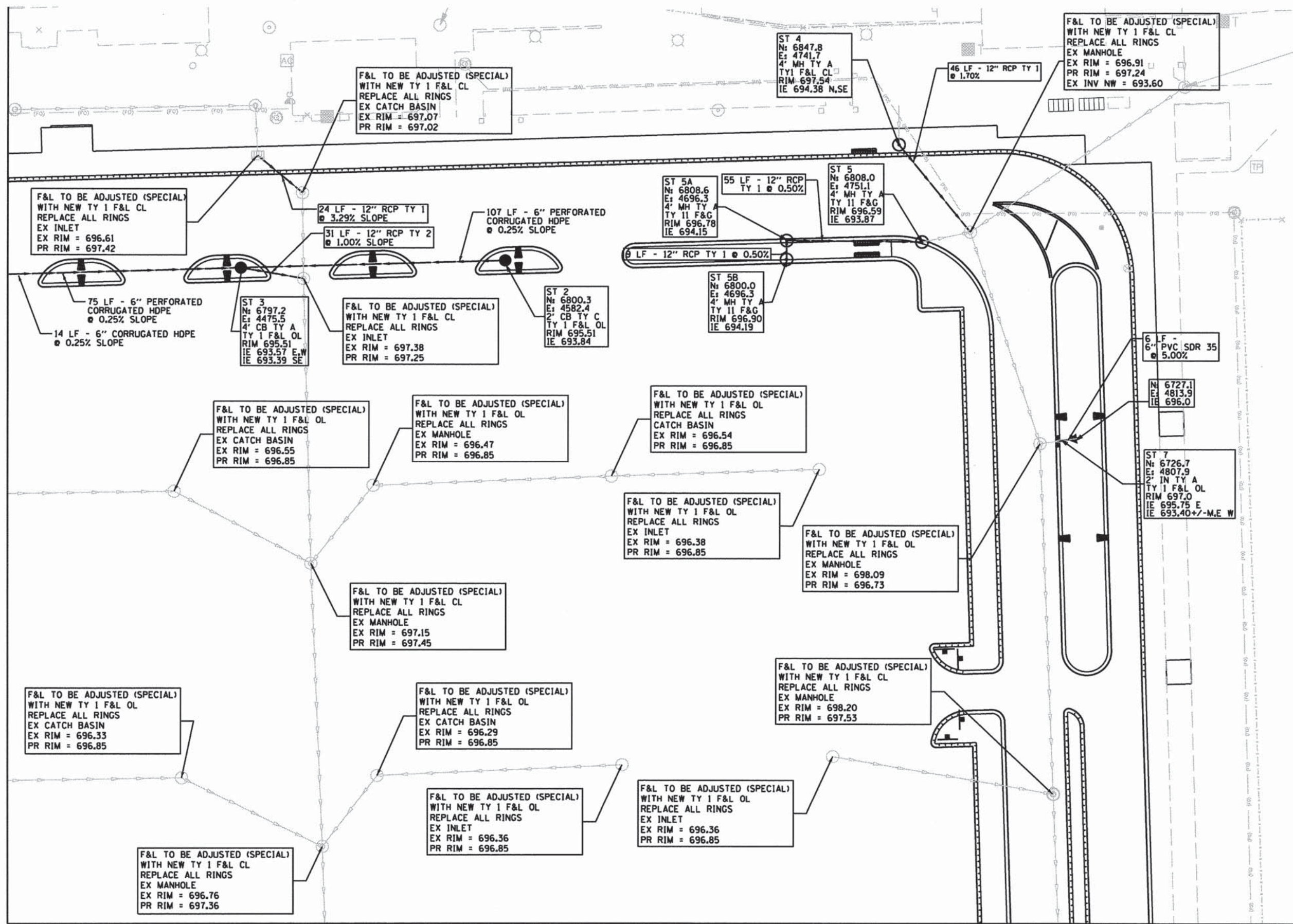
KEY MAP

MATCH LINE SEE SHEET 53

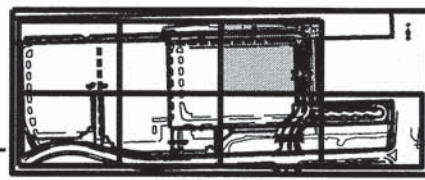
	V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = bhert DESIGNED - JH DRAWN - EIM CHECKED - MJR PLOT DATE = 10/16/2015	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. TO STA.	MUN 0084 SECTION 13-00300-00-PK COUNTY DUPAGE TOTAL SHEETS 107 SHEET NO. 50 CONTRACT NO. 61B33 ILLINOIS FED. AID PROJECT
--	--	--	--	---	--	--



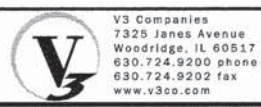
MATCH LINE SEE SHEET 50



MATCH LINE SEE SHEET 54



KEY MAP



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = bhrs	DESIGNED - JH	REVISED -
PLOT SCALE = 48'	DRAWN - EIM	REVISED -
PLOT DATE = 10/16/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

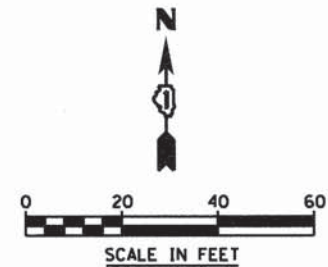
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	51
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 49



FRAMES AND LIDS, SPECIAL
INSTALL 1.5" ADJUSTMENT RING
EX MANHOLE
EX RIM = 695.82
PR RIM = 695.95

FRAMES AND LIDS, SPECIAL
INSTALL 1.5" ADJUSTMENT RING
EX MANHOLE
EX RIM = 695.06
PR RIM = 695.78

F&L TO BE ADJUSTED (SPECIAL)
WITH NEW TY 11 F&G
REPLACE ALL RINGS
EX MANHOLE
EX RIM = 696.29
PR RIM = 696.80

F&L TO BE ADJUSTED (SPECIAL)
WITH NEW TY 1 F&L OL
REPLACE ALL RINGS
EX MANHOLE
EX RIM = 696.56
PR RIM = 696.65

FRAMES AND LIDS, SPECIAL
INSTALL 1.5" ADJUSTMENT RING
EX MANHOLE
EX RIM = 697.30
PR RIM = 697.81

FRAMES AND LIDS, SPECIAL
INSTALL 1.5" ADJUSTMENT RING
EX MANHOLE
EX RIM = 697.51
PR RIM = 697.62

ST 9
N: 6396.67
E: 3759.44
2' IN TY A
TY 11 F&G
RIM 696.80
IE 692.04

ST 11
N: 6308.9
E: 3854.0
2' IN TY A
TY 1 F&L OL
RIM 696.60
IE 692.00

ST 10
N: 6328.96
E: 3627.31
4' CB TY A
TY 1 F&L OL
RIM 696.15
IE 693.12

90 LF - 12" RCP TY 2 @ 1.00%

ST 25
N: 6286.5
E: 3707.1
7' MH TY A
TY 1 F&L OL
RIM 696.90
IE 690.72 S
IE 692.22 NW

FES 1
N: 6270.9
E: 3469.8
12" STEEL FES
IE 695.0

201 LF - 12" HDPE
TY 1 @ 0.00%

19 LF - 12" RCP TY 2 @ 1.00%
LIGHT CONTROLLER
TO BE RELOCATED
SEE LIGHTING PLANS
FOR LOCATION

FES 3
N: 6274.4
E: 3714.0
12" RCP FES
IE 694.0

FES 2
N: 6287.0
E: 3660.3
12" STEEL FES
IE 695.0

9 LF - 12" RCP
TY 1 @ 0.00%

FES 4
N: 6253.8
E: 3777.5
12" RCP FES
IE 694.0

FES 2A
N: 6281.1
E: 3687.8
12" RCP FES
IE 694.0

20 LF - 12" RCP TY 1 @ 1.00%

16 LF - 12" RCP
TY 1 @ 0.00%

ST 8
N: 6267.9
E: 3702.8
4' CB TY A
TY 1 F&L OL
W/ DRAINAGE
RESTRICTOR
RIM 696.85
IE 690.91 N
IE 693.80 NW

ST 8C
N: 6246.4
E: 3763.0
4' CB TY A
TY 11 F&G
RIM 696.63
IE 694.0

ST 8A
N: 6265.6
E: 3721.4
4' CB TY A
TY 1 CL
SPECIAL
(W/ BACKFLOW
PREVENTER)**
RIM 697.2
IE 694.0

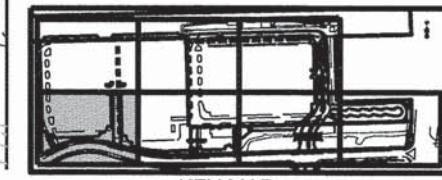
ST 8B
N: 6259.1
E: 3727.0
4' CB TY A
TY 11 F&G
RIM 696.84
IE 694.0

38 LF - 12" RCP TY 1 @ 0.00%

#2803
STORM INLET

L10+00

- NOTES:
- SEE DETAIL FOR DRAINAGE RESTRICTOR ON SHEET 106
 - ** - SEE DETAIL FOR BACKFLOW PREVENTER ON SHEET 106



KEY MAP

MATCH LINE SEE SHEET 53



USER NAME = bherz
PLOT SCALE = 48'
PLOT DATE = 10/13/2015

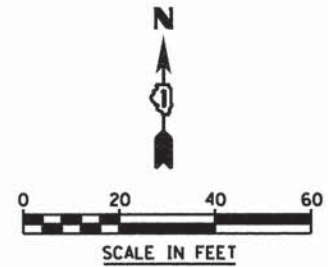
DESIGNED - JH
DRAWN - EIM
CHECKED - MJR
DATE - 10-09-15

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN
SCALE: 1"=20'
SHEET 4 OF 7 SHEETS
STA. TO STA.

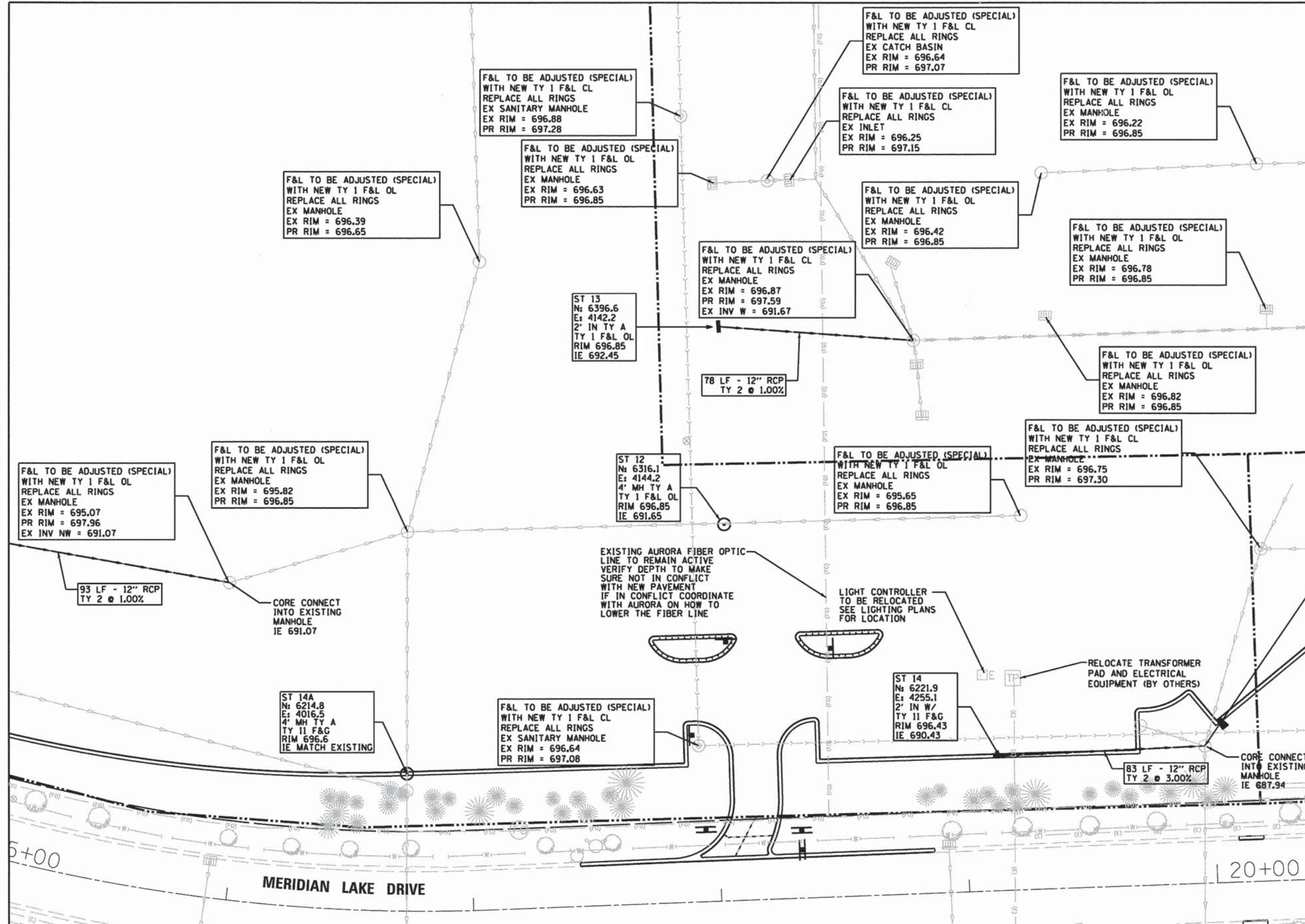
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	52
				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 50

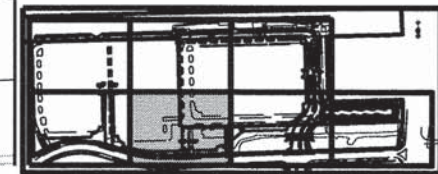


MATCH LINE SEE SHEET 52

MATCH LINE SEE SHEET 54



F&L TO BE ADJUSTED (SPECIAL)
REPLACE ALL RINGS
EX MANHOLE
EX RIM = 694.39
PR RIM = 698.13
EX INV W = 687.94



KEY MAP



USER NAME = bhert
PLOT SCALE = 48"
PLOT DATE = 10/16/2015

DESIGNED - JH
DRAWN - EIH
CHECKED - MJR
DATE - 10-09-15

REVISED -
REVISED -
REVISED -
REVISED -

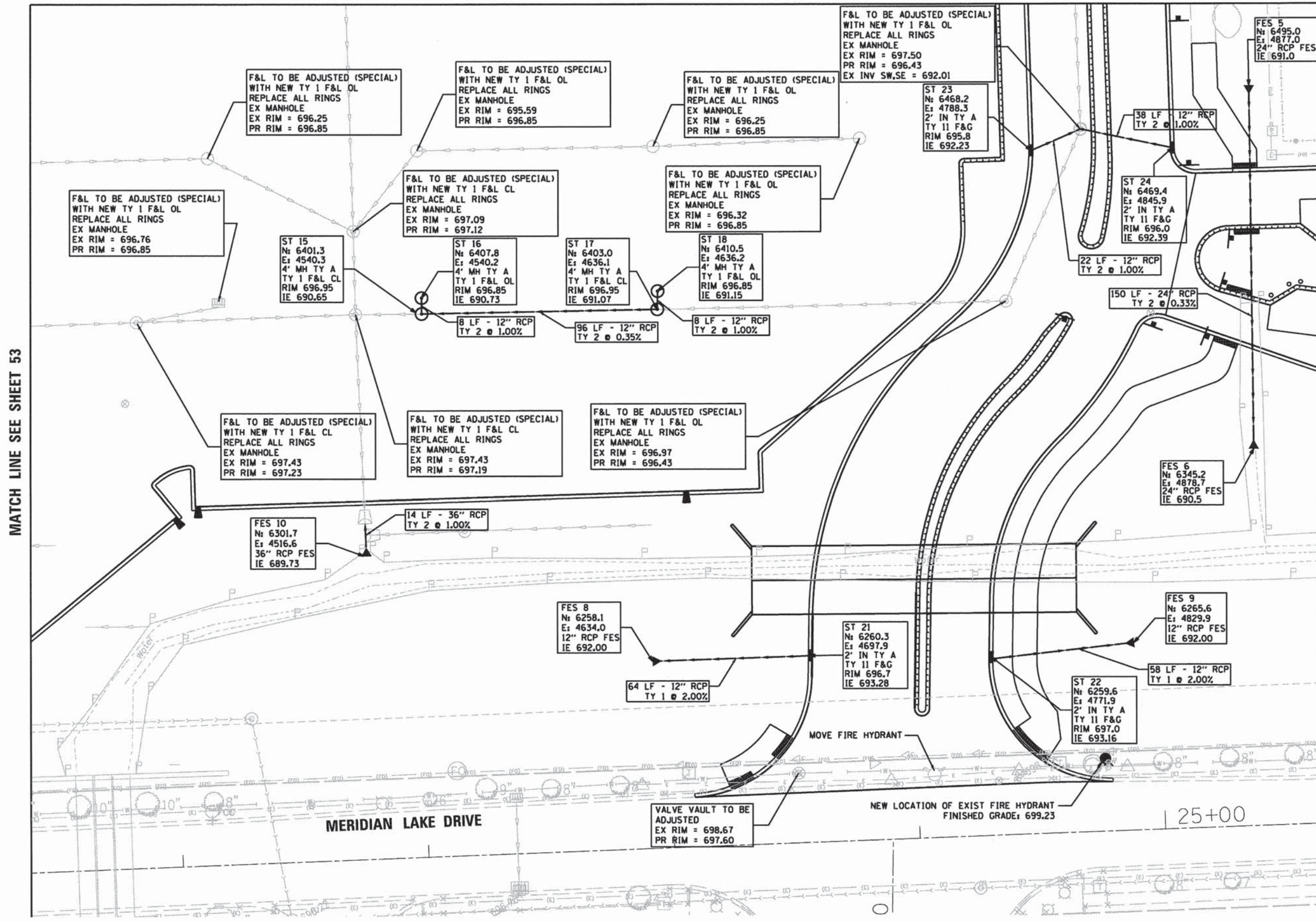
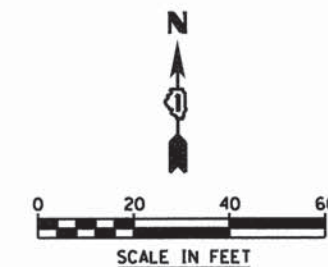
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

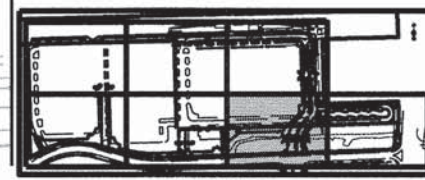
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	53
				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 51

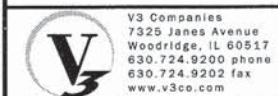


MATCH LINE SEE SHEET 53

MATCH LINE SEE SHEET 55



KEY MAP



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Woodridge, IL 60517
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630.724.9202 fax
www.v3co.com

USER NAME = #USER#
DESIGNED - JH
DRAWN - EIH
CHECKED - MJR
DATE - 10-09-15

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN
SCALE: 1"=20'
SHEET 6 OF 7 SHEETS
STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	54
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



MATCH LINE SEE SHEET 54

ST 20
N: 6465.5
E: 5065.9
2' IN TY A
TY 11 F&G
RIM 694.34
IE 690.50

VALVE VAULT TO BE
ADJUSTED
EX RIM = 695.26
PR RIM = 695.69

95 LF - 18" RCP
TY 2 @ 0.42%

ST 19
N: 6370.3
E: 5066.9
4' MH TY A
TY 11 F&G
RIM 694.38
IE 690.10

42 LF - 18" RCP
TY 2 @ 0.95%

FES 7
N: 6328.6
E: 5067.4
18" RCP FES
IE 690.50

IL. STATE ROUTE 59

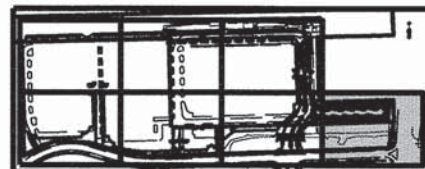
MERIDIAN LAKE DRIVE

BUSHES

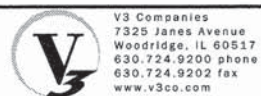
Water

Water

C.I. fence



KEY MAP



V3 Companies
7325 Janes Avenue
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www.v3co.com

USER NAME = #USER#
DESIGNED - JH
DRAWN - EIH
CHECKED - MJR
DATE - 10-09-15

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

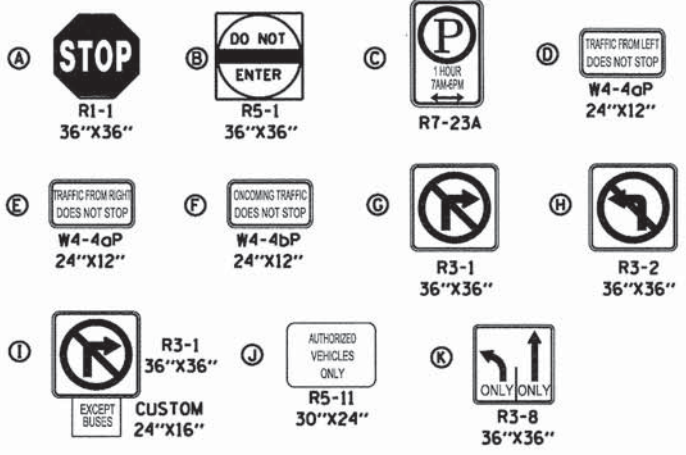
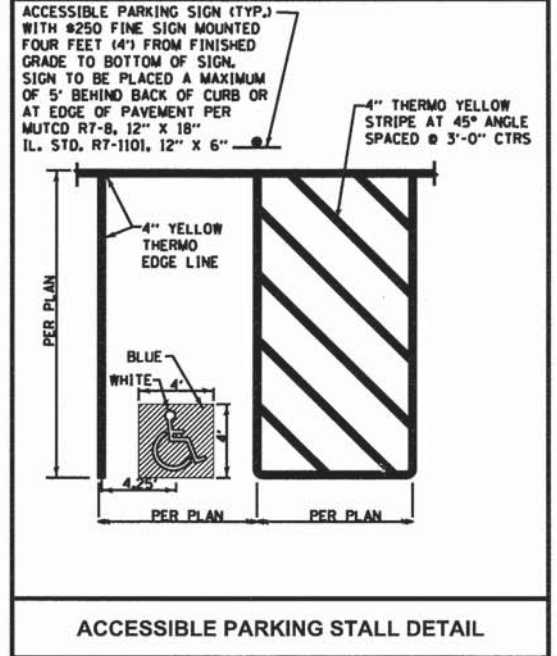
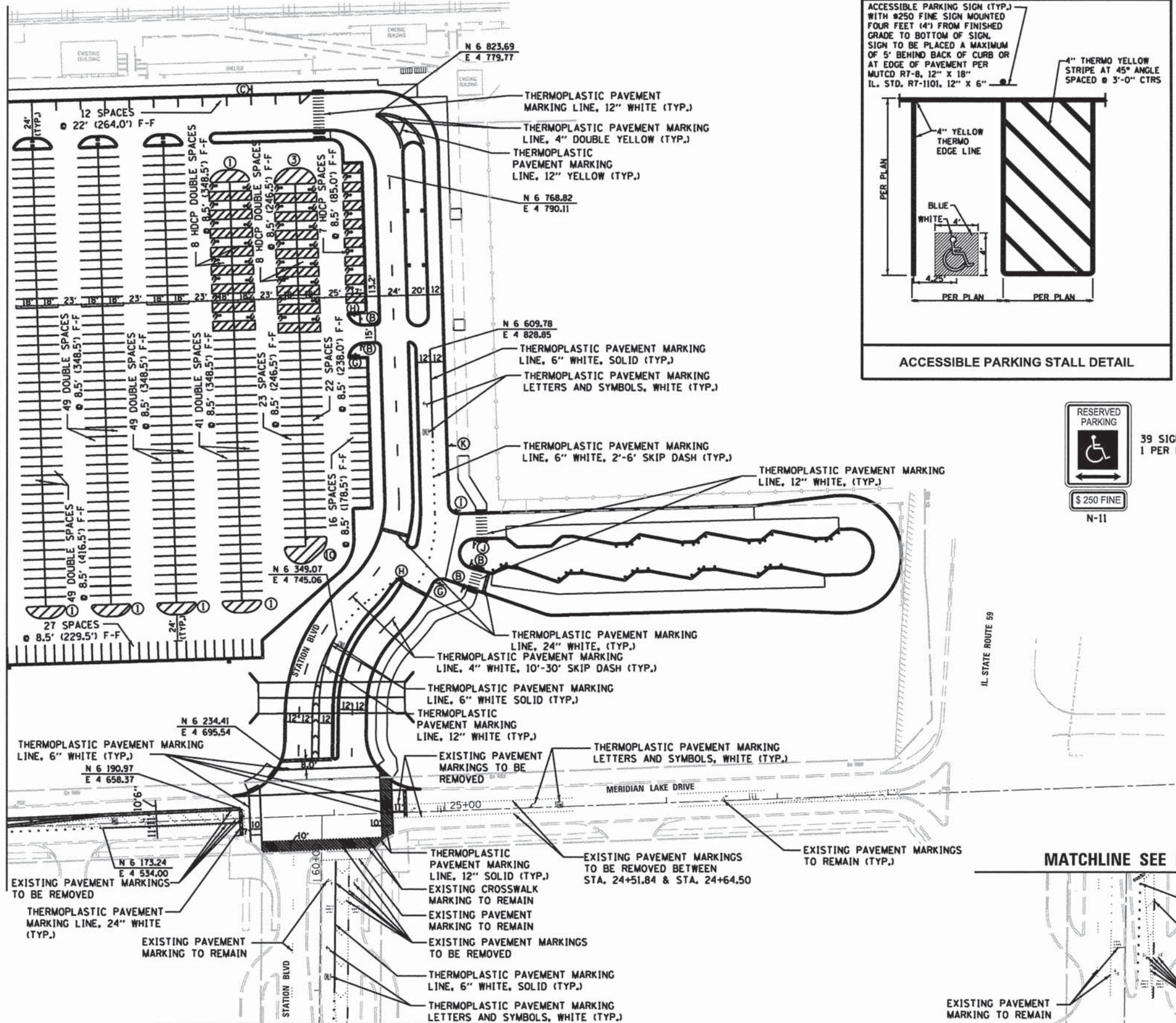
DRAINAGE AND UTILITY PLAN

SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	55
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

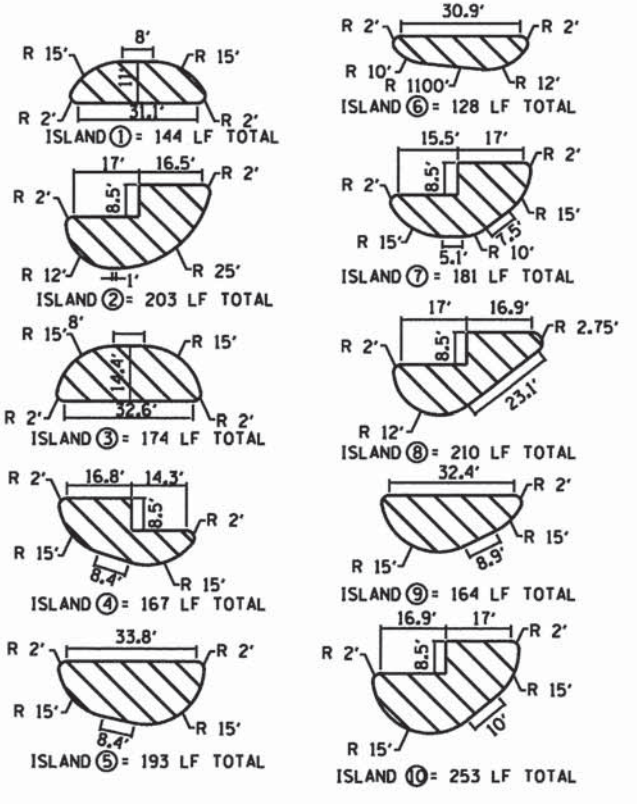
MATCHLINE SEE SHEET 56



- NOTE:
- ALL PARKING LOT STRIPING SHALL BE 4" THERMOPLASTIC YELLOW UNLESS OTHERWISE NOTED.
 - ALL EXISTING HANDICAP SIGNS TO BE REUSED.

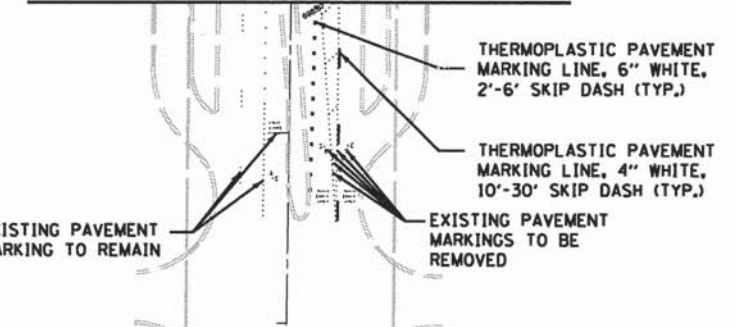


39 SIGNS TOTAL
1 PER HDPC SPACE

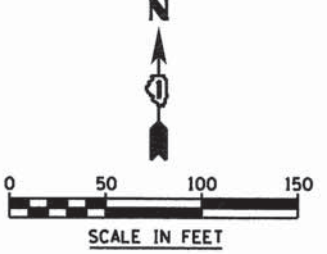


ISLAND DETAILS
4" THERMOPLASTIC PAVEMENT MARKING
45° @ 5' C-C

MATCHLINE SEE LEFT



MATCHLINE SEE RIGHT



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Woodridge, IL 60517
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630.724.9202 fax
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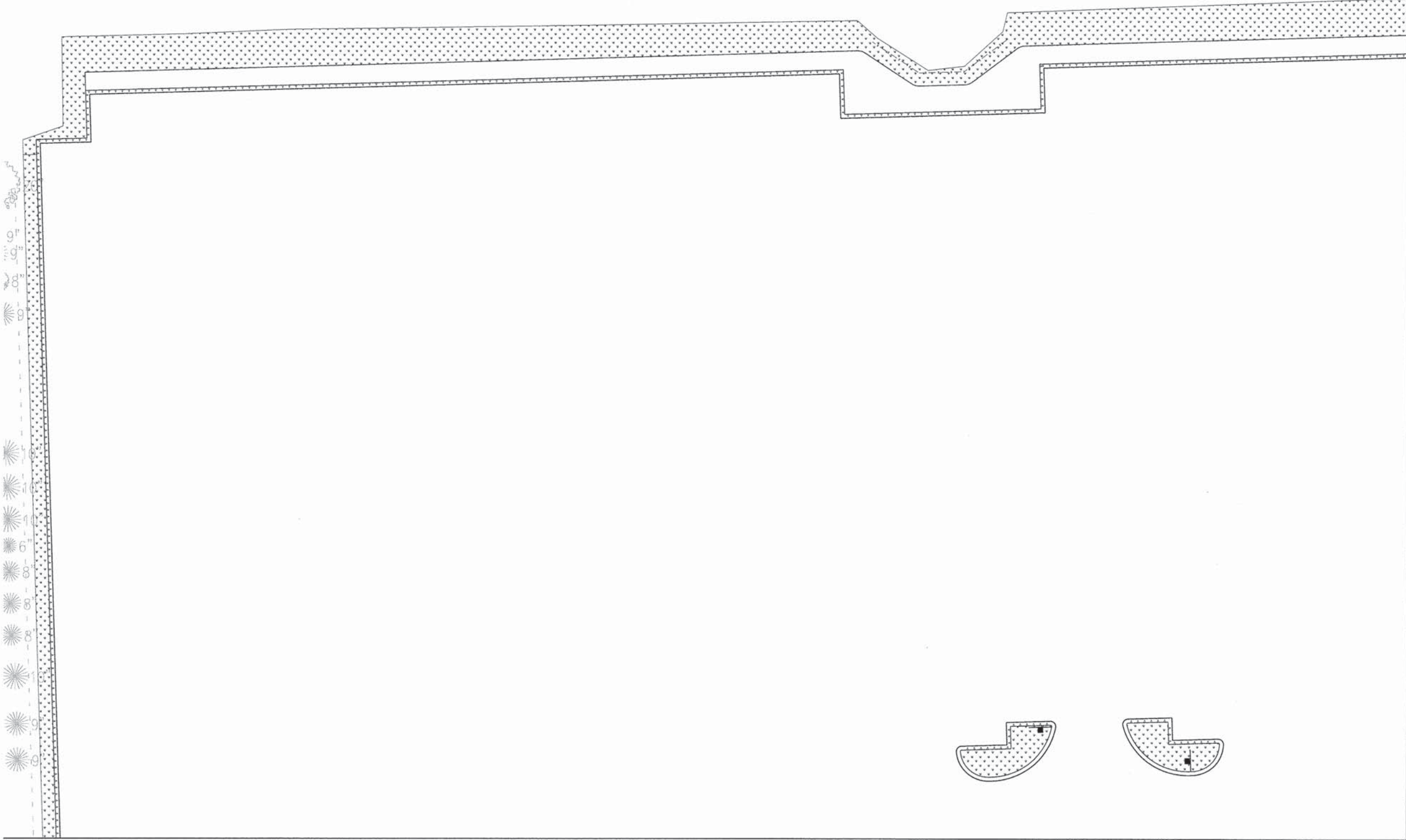
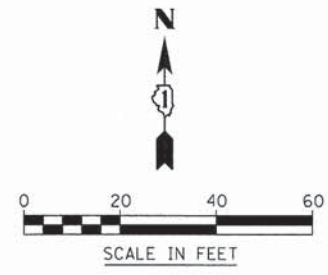
USER NAME = #USER#	DESIGNED - DE	REVISED -
PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	57
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

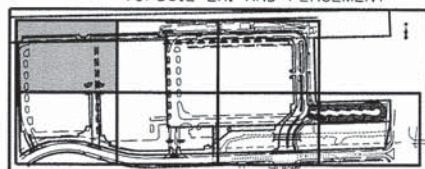


MATCH LINE SEE SHEET 59

MATCH LINE SEE SHEET 61

LEGEND

- SEED CLASS, 1A
TOPSOIL, 6"
 - SEEDING, MESIC PRAIRIE SEE
SEED MIX LIST FOR MORE INFO
TOPSOIL, 6"
 - WETLAND MITIGATION PLANT/
SEEDING MIX SEE SEED MIX LIST
FOR MORE INFO
TOPSOIL, 6"
 - EMERGENT MARSH PLANTING
PLUGS SEE PLUG LIST
FOR MORE INFO
TOPSOIL, 6"
- * PAID FOR AS PART OF
TOPSOIL EX. AND PLACEMENT



KEY MAP



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 11/16/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

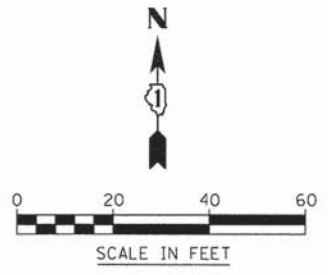
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

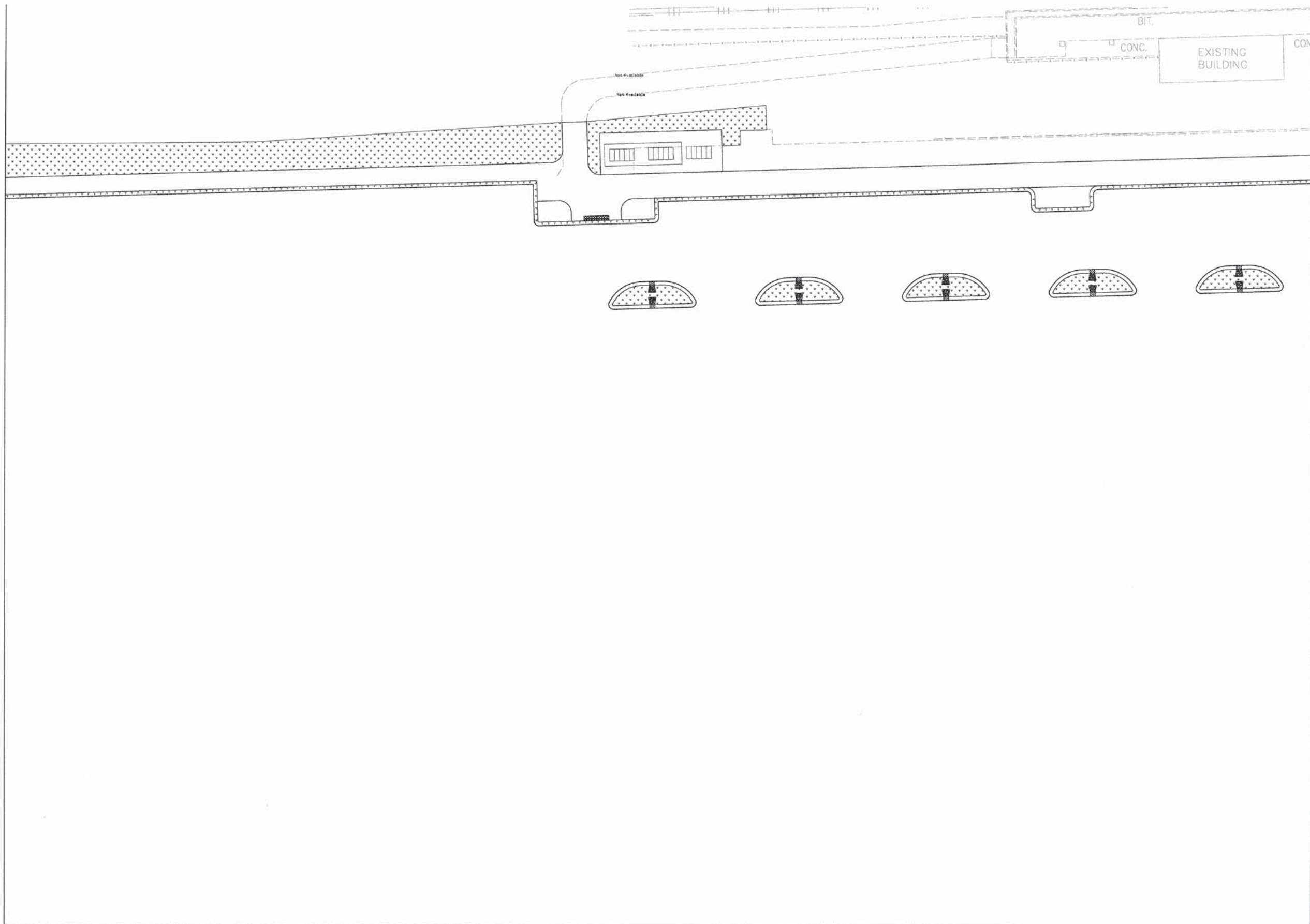
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	58
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT



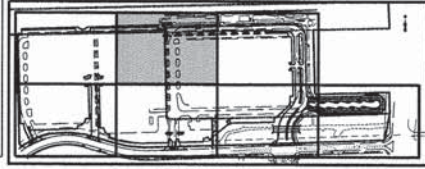
MATCH LINE SEE SHEET 58

MATCH LINE SEE SHEET 60



LEGEND

- SEED CLASS, 1A
TOPSOIL, 6"
 - SEEDING, MESIC PRAIRIE SEE
SEED MIX LIST FOR MORE INFO
TOPSOIL, 6"
 - WETLAND MITIGATION PLANT/
SEEDING MIX SEE SEED MIX LIST
FOR MORE INFO
TOPSOIL, 6"
 - EMERGENT MARSH PLANTING
PLUGS SEE PLUG LIST
FOR MORE INFO
TOPSOIL, 6"
- * PAID FOR AS PART OF
TOPSOIL EX. AND PLACEMENT



MATCH LINE SEE SHEET 62



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 11/16/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

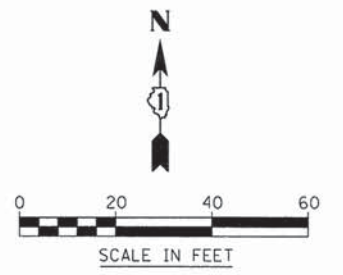
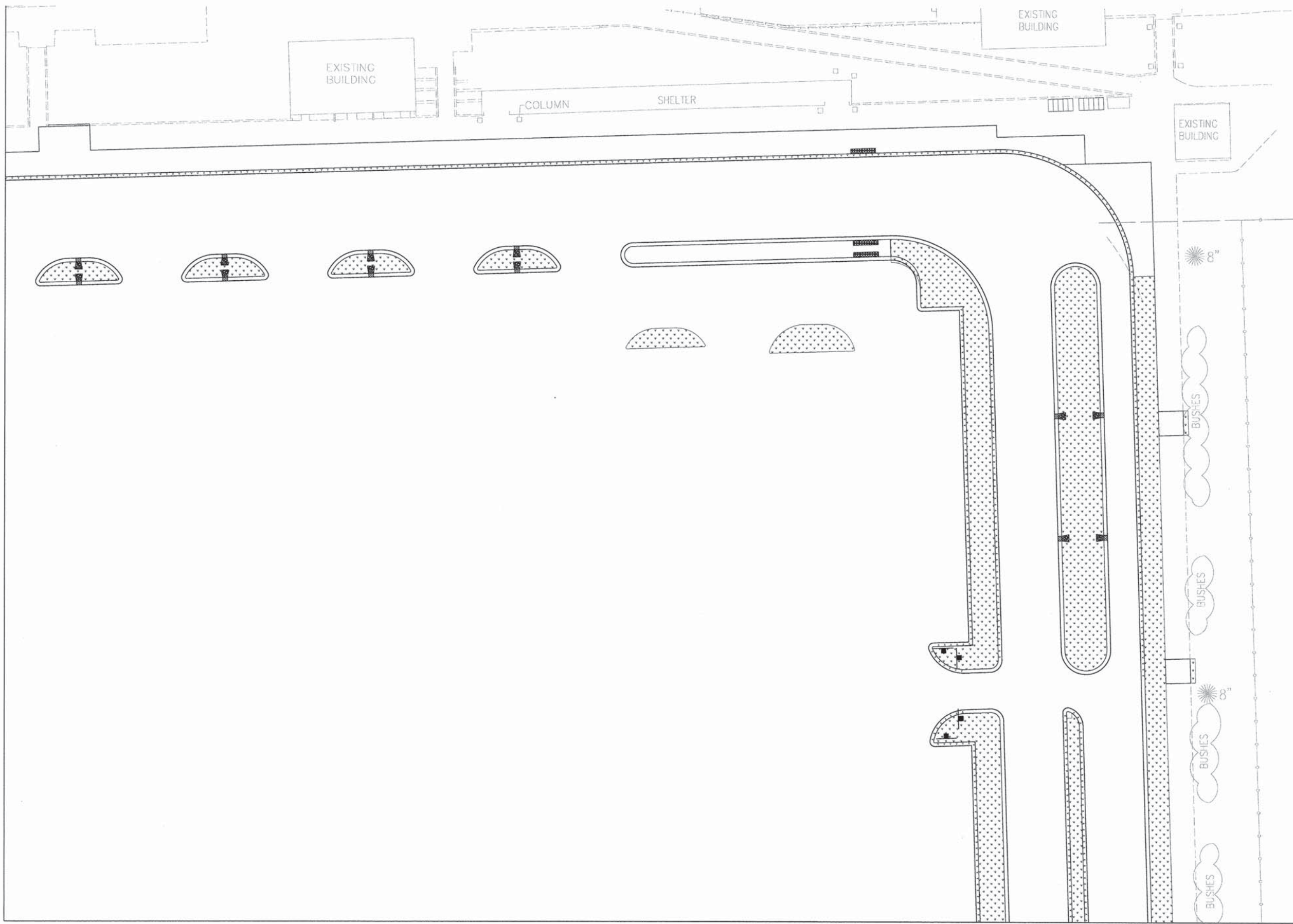
LANDSCAPING PLAN

SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	59
CONTRACT NO. 61B33				





ILLINOIS FED. AID PROJECT

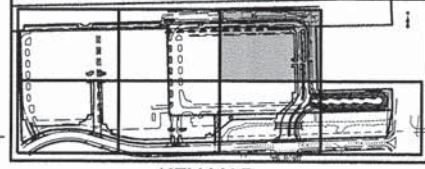
MATCH LINE SEE SHEET 59



MATCH LINE SEE SHEET 63

LEGEND

-  SEED CLASS, 1A
TOPSOIL, 6"
-  SEEDING, MESIC PRAIRIE SEE
SEED MIX LIST FOR MORE INFO
TOPSOIL, 6"
-  WETLAND MITIGATION PLANT/
SEEDING MIX SEE SEED MIX LIST
FOR MORE INFO
TOPSOIL, 6"
-  EMERGENT MARSH PLANTING
PLUGS SEE PLUG LIST
FOR MORE INFO
TOPSOIL, 6"
- PAID FOR AS PART OF
TOPSOIL EX. AND PLACEMENT



KEY MAP



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 11/16/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

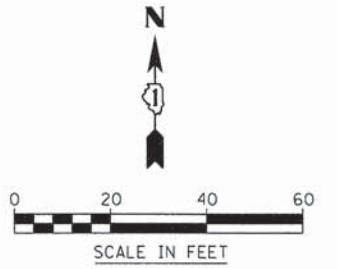
LANDSCAPING PLAN

SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

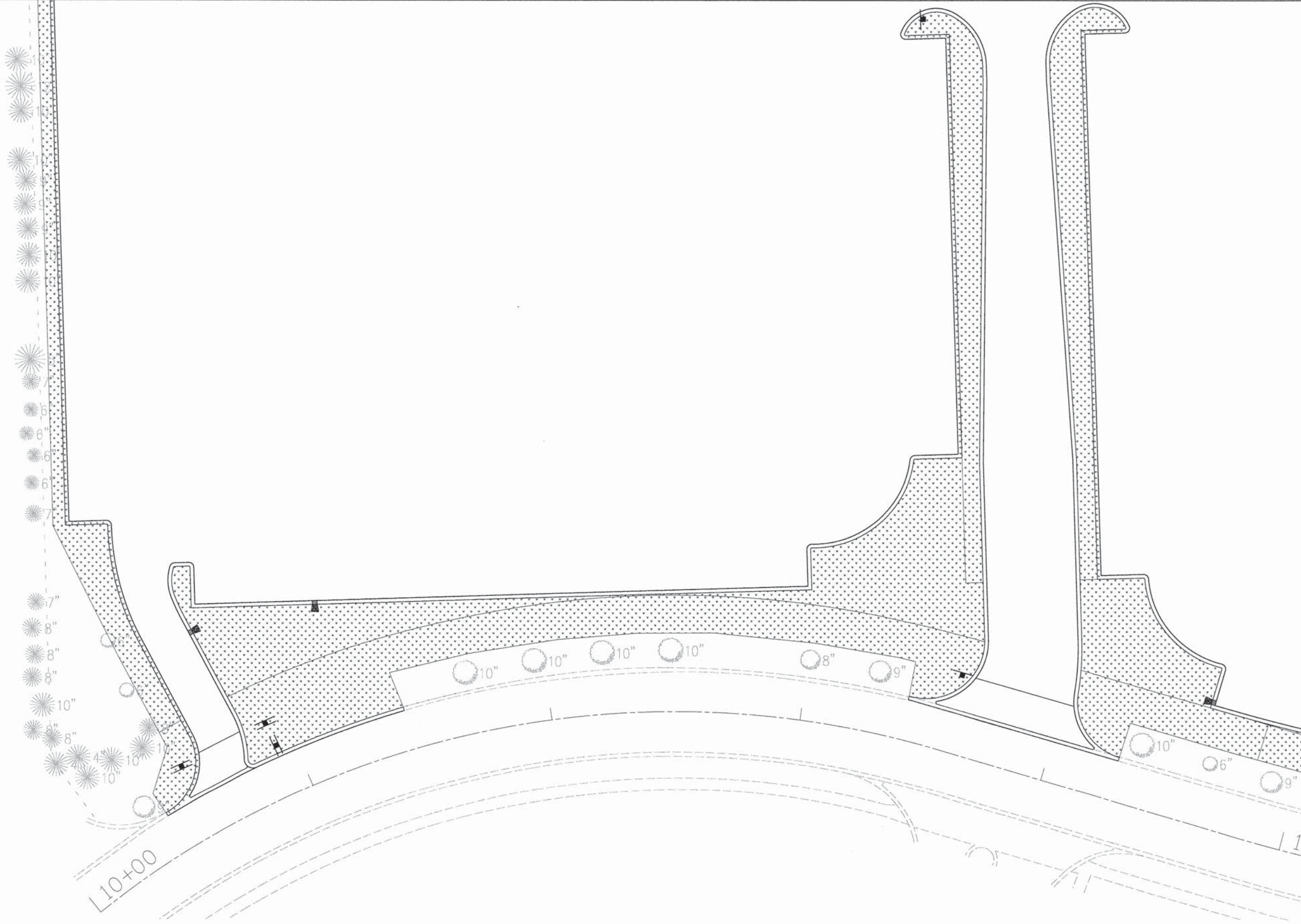
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	60
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

MATCH LINE SEE SHEET 58

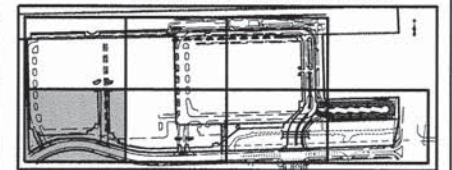


MATCH LINE SEE SHEET 62



LEGEND

- SEED CLASS, 1A
TOPSOIL, 6"
- SEEDING, MESIC PRAIRIE SEE
SEED MIX LIST FOR MORE INFO
TOPSOIL, 6"
- WETLAND MITIGATION PLANT/
SEEDING MIX SEE SEED MIX LIST
FOR MORE INFO
TOPSOIL, 6"
- EMERGENT MARSH PLANTING
PLUGS SEE PLUG LIST
FOR MORE INFO
TOPSOIL, 6"
- PAID FOR AS PART OF
TOPSOIL EX. AND PLACEMENT



V3 Companies
7325 Jones Avenue
Woodridge, IL 60517
830.724.9200 phone
830.724.9202 fax
www.v3co.com

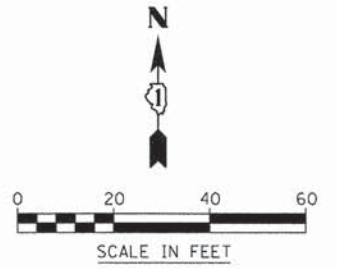
USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 11/16/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

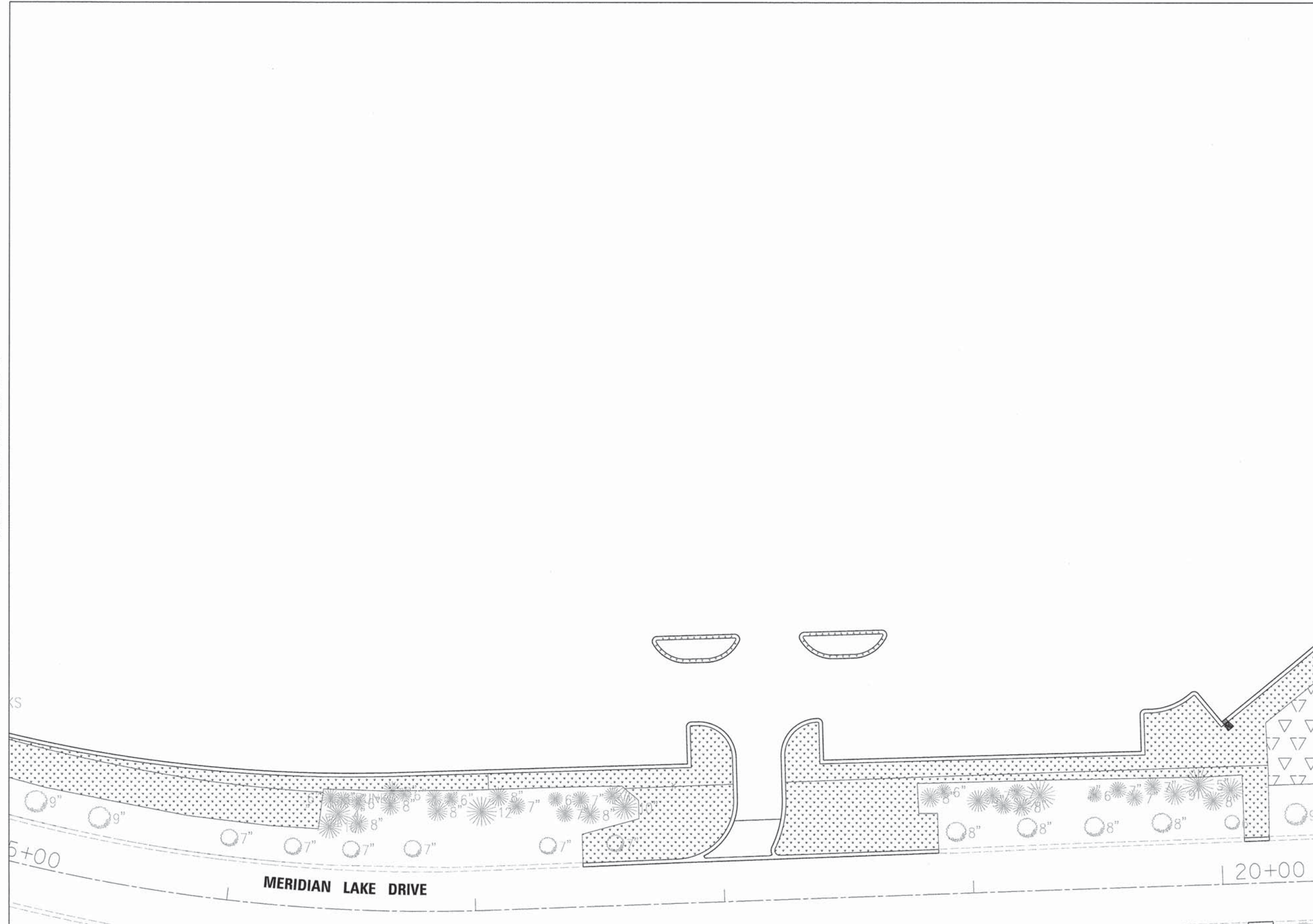
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	61
CONTRACT NO. 61B33				
[ILLINOIS] FED. AID PROJECT				

MATCH LINE SEE SHEET 59




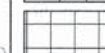


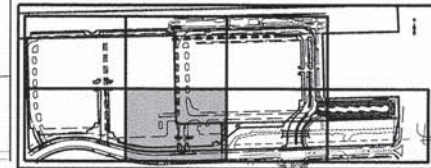
MATCH LINE SEE SHEET 61

MATCH LINE SEE SHEET 63



LEGEND

-  SEED CLASS, 1A
TOPSOIL, 6"
-  SEEDING, MESIC PRAIRIE SEE
SEED MIX LIST FOR MORE INFO
TOPSOIL, 6"
-  WETLAND MITIGATION PLANT/
SEEDING MIX SEE SEED MIX LIST
FOR MORE INFO
TOPSOIL, 6"
-  EMERGENT MARSH PLANTING
PLUGS SEE PLUG LIST
FOR MORE INFO
TOPSOIL, 6"
- PAID FOR AS PART OF
TOPSOIL EX. AND PLACEMENT



KEY MAP



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 11/16/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

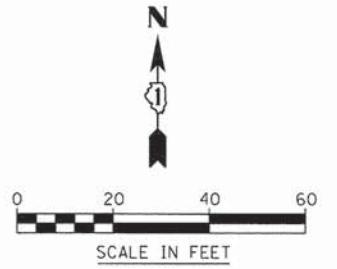
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

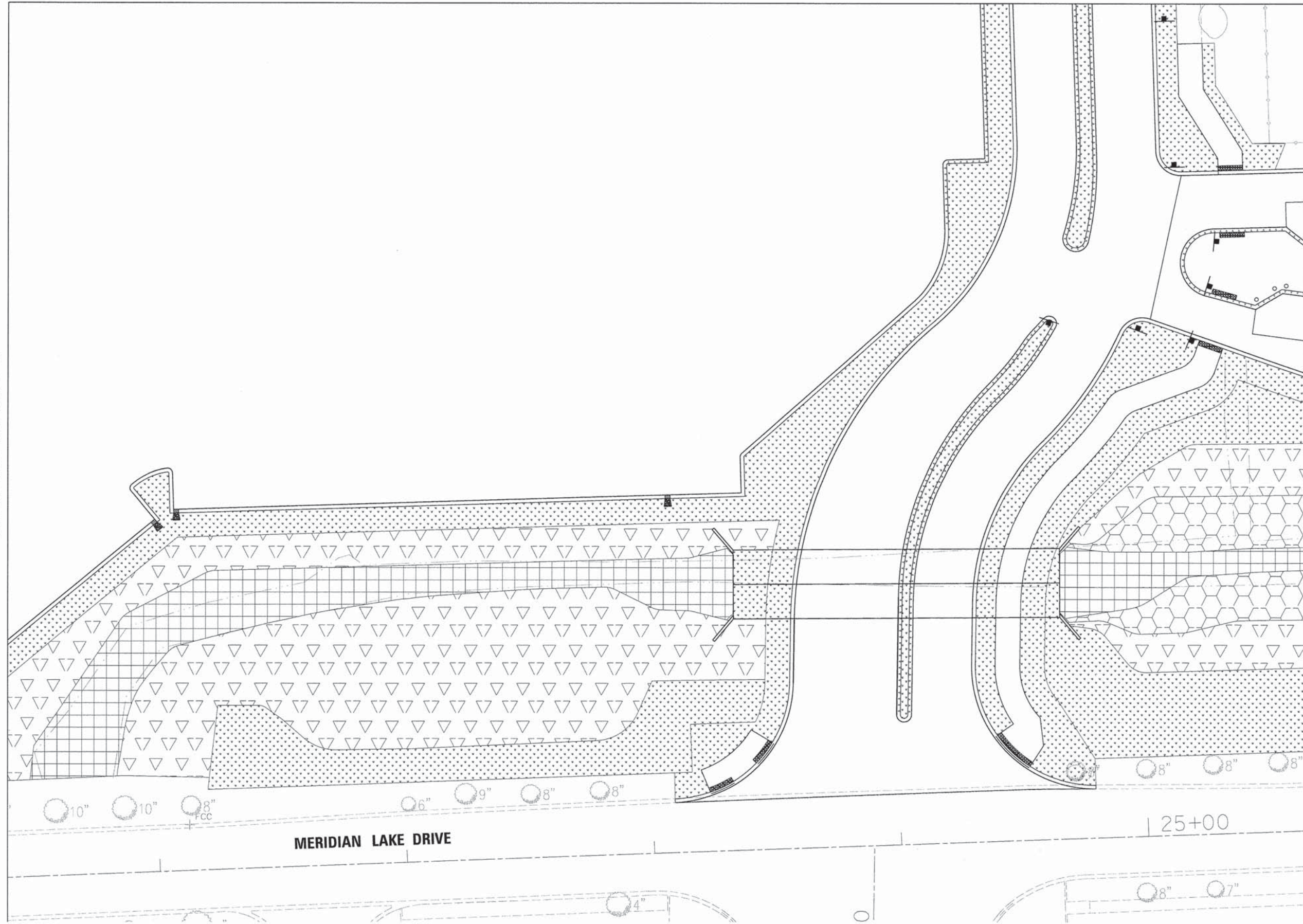
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	62
				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 60







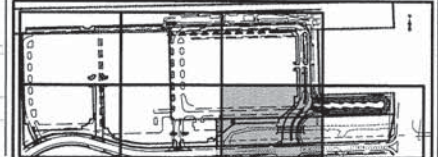
MATCH LINE SEE SHEET 62

MATCH LINE SEE SHEET 64



LEGEND

-  SEED CLASS. 1A
TOPSOIL, 6"*
-  SEEDING, MESIC PRAIRIE SEE
SEED MIX LIST FOR MORE INFO
TOPSOIL, 6"*
-  WETLAND MITIGATION PLANT/
SEEDING MIX SEE SEED MIX LIST
FOR MORE INFO
TOPSOIL, 6"*
-  EMERGENT MARSH PLANTING
PLUGS SEE PLUG LIST
FOR MORE INFO
TOPSOIL, 6"*
- * PAID FOR AS PART OF
TOPSOIL EX. AND PLACEMENT



KEY MAP



USER NAME = \$USER#
DESIGNED - JH
DRAWN - JH
CHECKED - MJR
DATE - 10-09-15

PLOT SCALE = \$SCALE#
PLOT DATE = 11/16/2015

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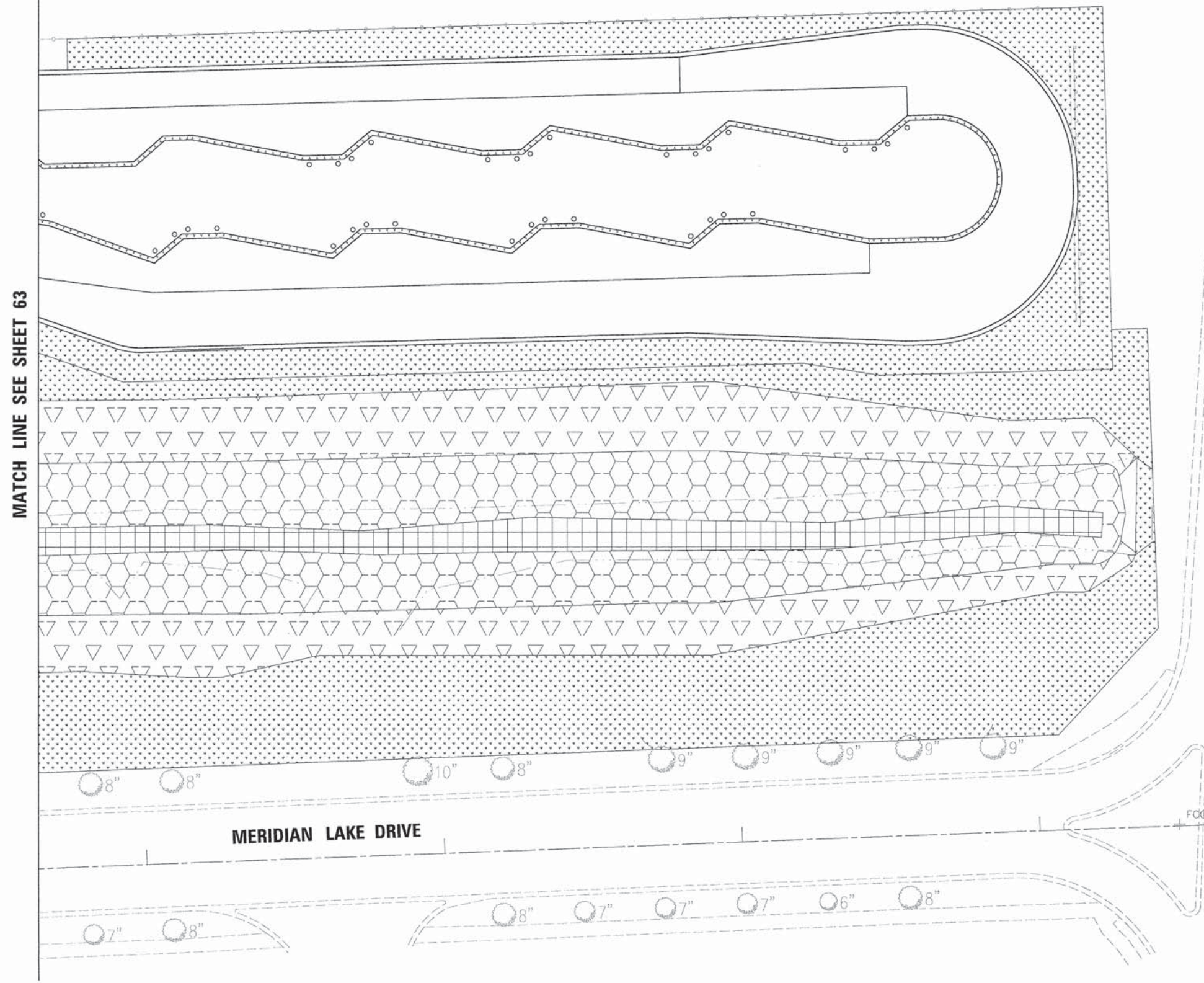
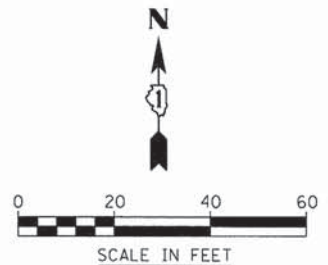
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	63
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

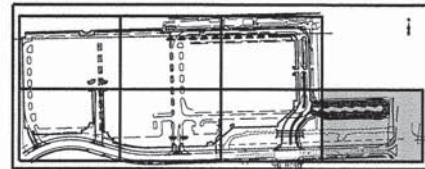


MATCH LINE SEE SHEET 63

IL. STATE ROUTE 59

LEGEND

- SEED CLASS, 1A
TOPSOIL, 6"
 - SEEDING, MESIC PRAIRIE SEE
SEED MIX LIST FOR MORE INFO
TOPSOIL, 6"
 - WETLAND MITIGATION PLANT/
SEEDING MIX SEE SEED MIX LIST
FOR MORE INFO
TOPSOIL, 6"
 - EMERGENT MARSH PLANTING
PLUGS SEE PLUG LIST
FOR MORE INFO
TOPSOIL, 6"
- PAID FOR AS PART OF
TOPSOIL EX. AND PLACEMENT



KEY MAP

V3 Companies
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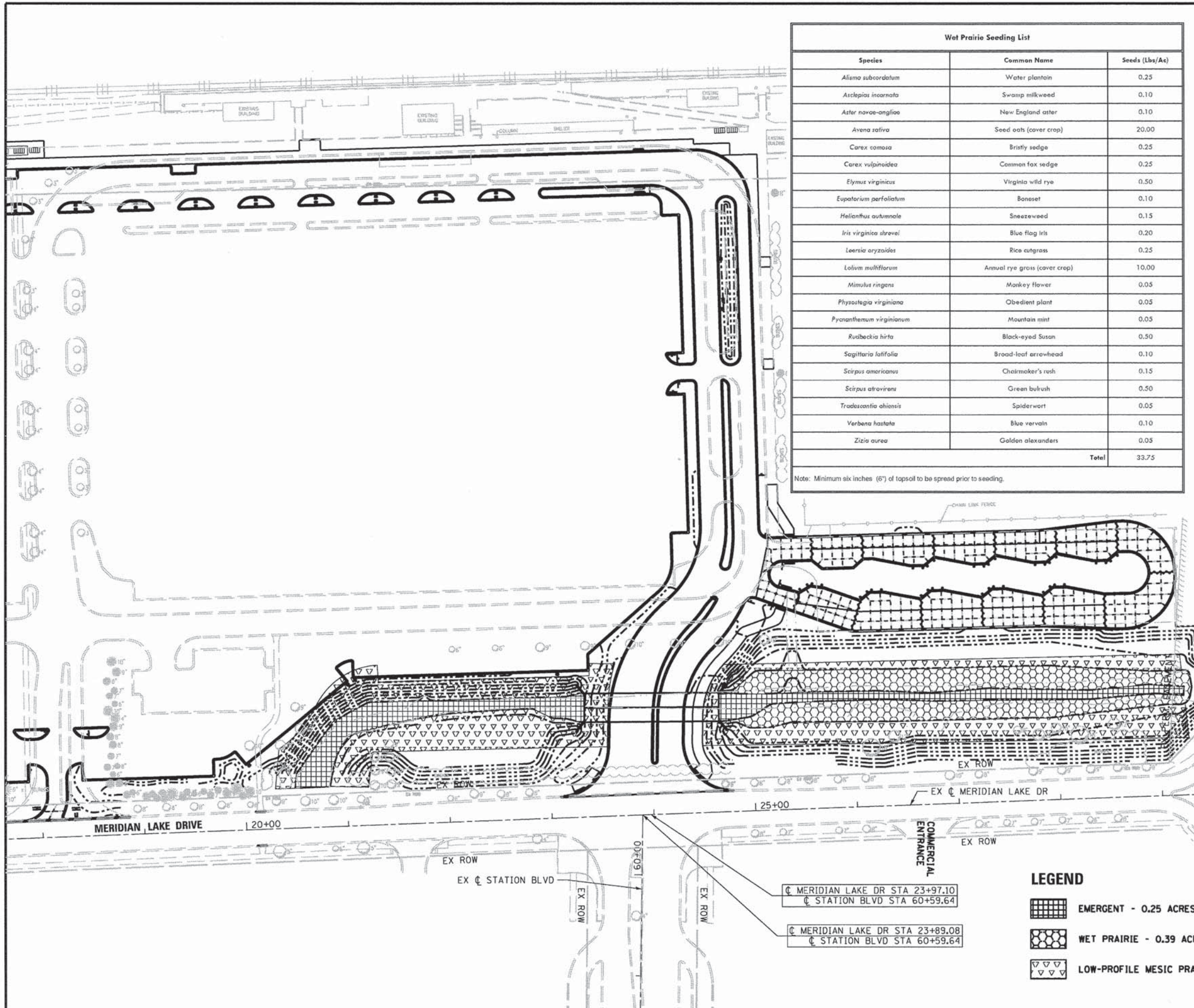
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PLOT DATE = 11/16/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN

SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	64
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



Wet Prairie Seeding List		
Species	Common Name	Seeds (Lbs/Ac)
<i>Alisma subcordatum</i>	Water plantain	0.25
<i>Asclepias incarnata</i>	Swamp milkweed	0.10
<i>Aster novae-angliae</i>	New England aster	0.10
<i>Avena sativa</i>	Seed oats (cover crop)	20.00
<i>Carex comosa</i>	Bristly sedge	0.25
<i>Carex vulpinoidea</i>	Common fox sedge	0.25
<i>Elymus virginicus</i>	Virginia wild rye	0.50
<i>Eupatorium perfoliatum</i>	Boneset	0.10
<i>Helianthus autumnale</i>	Sneezeweed	0.15
<i>Iris virginica shrevei</i>	Blue flag iris	0.20
<i>Leersia oryzoides</i>	Rice cutgrass	0.25
<i>Lolium multiflorum</i>	Annual rye grass (cover crop)	10.00
<i>Mimulus ringens</i>	Monkey flower	0.05
<i>Physostegia virginiana</i>	Obedient plant	0.05
<i>Pycnanthemum virginianum</i>	Mountain mint	0.05
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.50
<i>Sagittaria latifolia</i>	Broad-leaf arrowhead	0.10
<i>Scirpus americanus</i>	Chairmaker's rush	0.15
<i>Scirpus atrovirens</i>	Green bulrush	0.50
<i>Tradescantia ohioensis</i>	Spiderwort	0.05
<i>Verbena hastata</i>	Blue vervain	0.10
<i>Zizia aurea</i>	Golden alexanders	0.05
Total		33.75

Note: Minimum six inches (6") of topsoil to be spread prior to seeding.

Low-Profile Mesic Prairie Seeding List		
Species	Common Name	Seeds (Lbs/Ac)
<i>Allium cernuum</i>	Nodding wild onion	0.05
<i>Andropogon scoparius</i>	Little bluestem	5.00
<i>Asclepias tuberosa</i>	Butterfly weed	0.05
<i>Aster azureus</i>	Sky blue aster	0.05
<i>Aster pharicoides</i>	White aster	0.10
<i>Avena sativa</i>	Seed oats (cover crop)	40.00
<i>Bouteloua curtipendula</i>	Side-oats grama	2.00
<i>Careopsis palmata</i>	Prairie coreopsis	0.05
<i>Echinacea purpurea</i>	Purple coneflower	0.25
<i>Elymus canadensis</i>	Canada wild rye	2.00
<i>Eryngium yuccifolium</i>	Rattlesnake master	0.10
<i>Liatris pycnostachya</i>	Prairie blazing star	0.05
<i>Lolium multiflorum</i>	Annual rye (cover crop)	10.00
<i>Monarda fistulosa</i>	Wild bergamot	0.05
<i>Panicum virgatum</i>	Prairie switchgrass	1.00
<i>Petalostemum purpureum</i>	Purple prairie clover	0.25
<i>Phleum pratense</i>	Timothy (cover crop)	2.00
<i>Ratibida pinnata</i>	Yellow coneflower	0.50
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.50
<i>Solidago rigida</i>	Stiff goldenrod	0.50
<i>Tradescantia ohioensis</i>	Common spiderwort	0.05
<i>Verbena stricta</i>	Hoary vervain	0.20
Total		64.75

Notes:
 1. Minimum six inches (6") of topsoil to be spread on sideslopes prior to prairie seeding.
 2. Prairie seeding zone to be covered with erosion blankets within 48 hours after seeding.

Emergent Marsh Planting List		
Species	Common Name	Plants/Acre
<i>Acorus calamus</i>	Sweet flag	150
<i>Iris virginica shrevei</i>	Blue flag iris	200
<i>Potamogeton nodosus</i>	Pickeralweed	75
<i>Sagittaria latifolia</i>	Arrowhead	200
<i>Scirpus oculus</i>	Hardstem bulrush	300
<i>Scirpus validus craber</i>	Softstem bulrush	300
<i>Sporogenium eurycarpum</i>	Bur reed	200
Total		1425

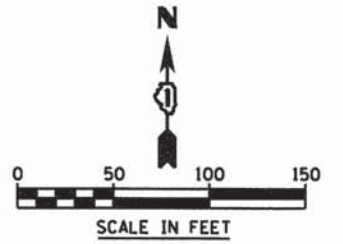
Note: Minimum six inches (6") of topsoil to be spread prior to planting.

LEGEND

EMERGENT - 0.25 ACRES

WET PRAIRIE - 0.39 ACRES

LOW-PROFILE MESIC PRAIRIE - 0.80 ACRES



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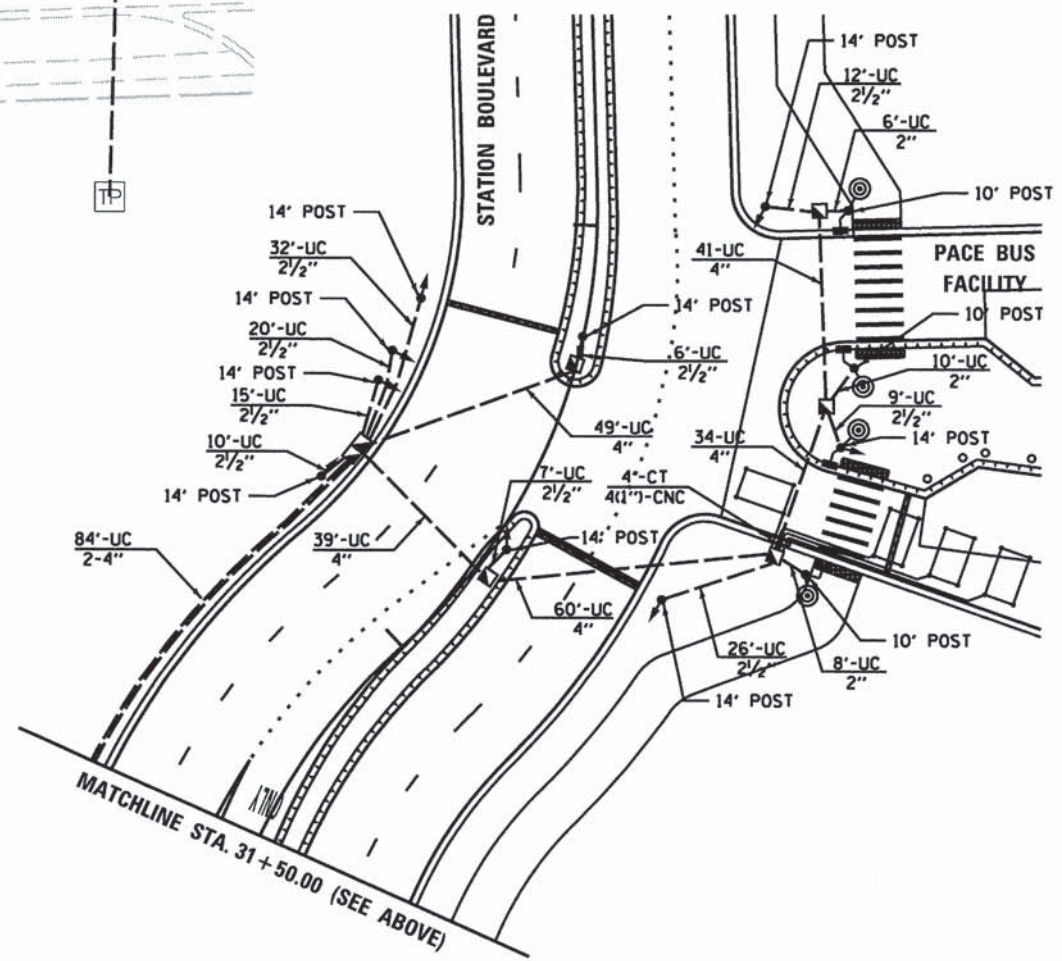
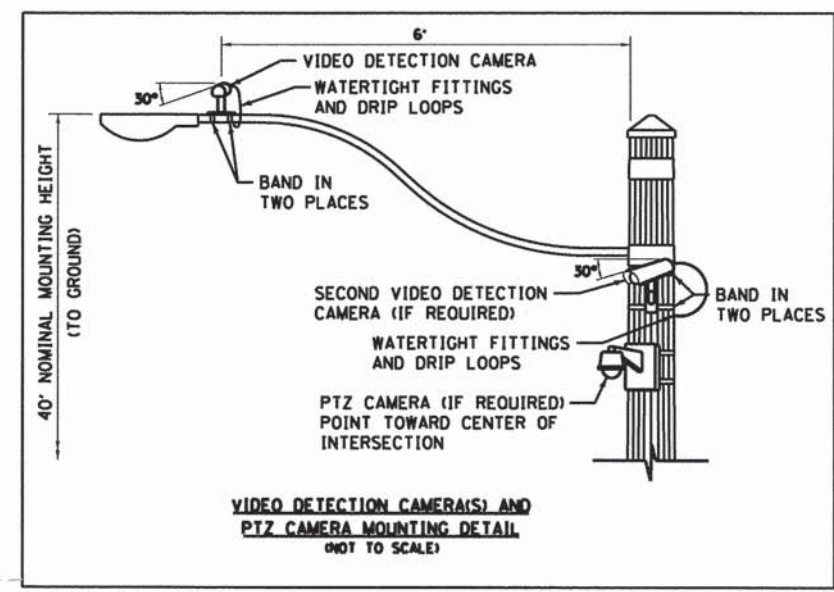
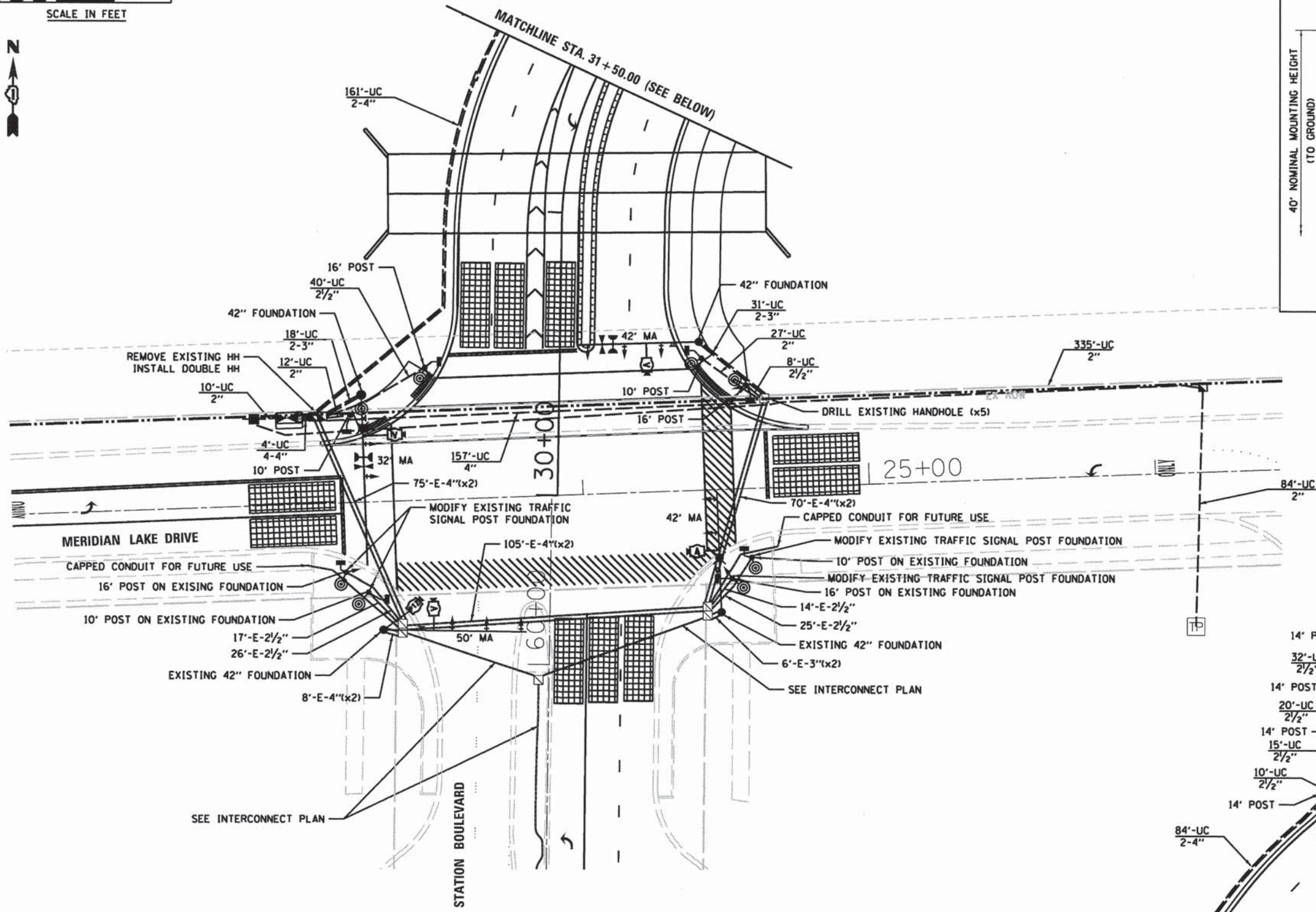
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PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLANTING PLAN

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	65
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH EXISTING ADJACENT SYSTEMS.
 2. EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.



USER NAME = bhert	DESIGNED - CAS	REVISED -
PLOT SCALE = 48'	DRAWN - CAS	REVISED -
PLOT DATE = 10/13/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

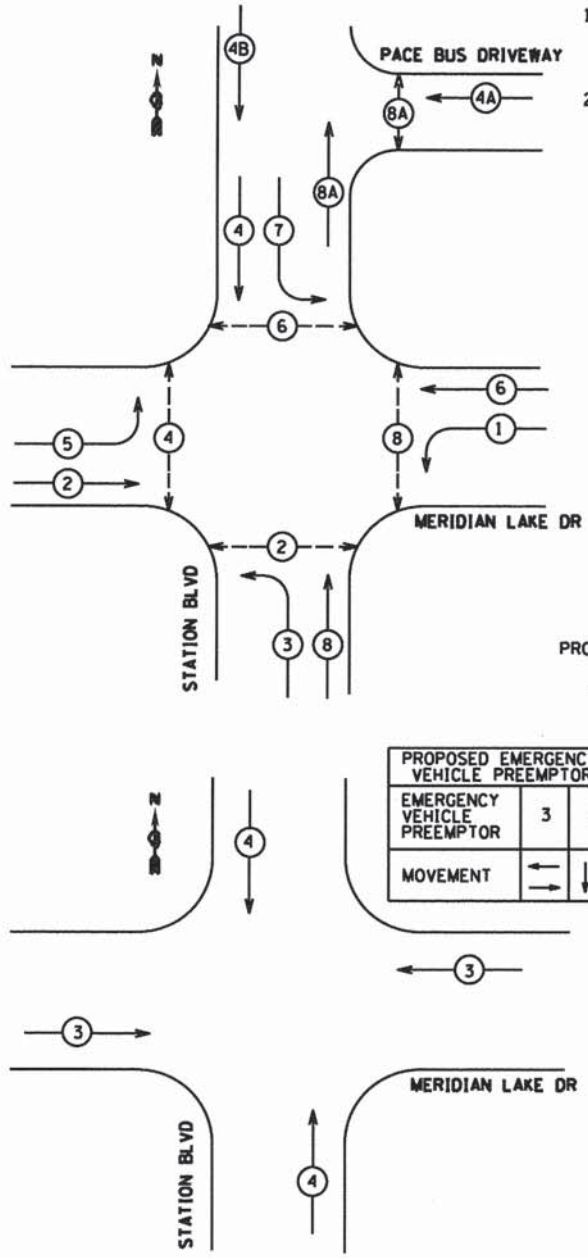
TRAFFIC SIGNAL PLAN

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	66
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

CONTROLLER SEQUENCE



NOTES

- EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH EXISTING ADJACENT SYSTEMS.

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

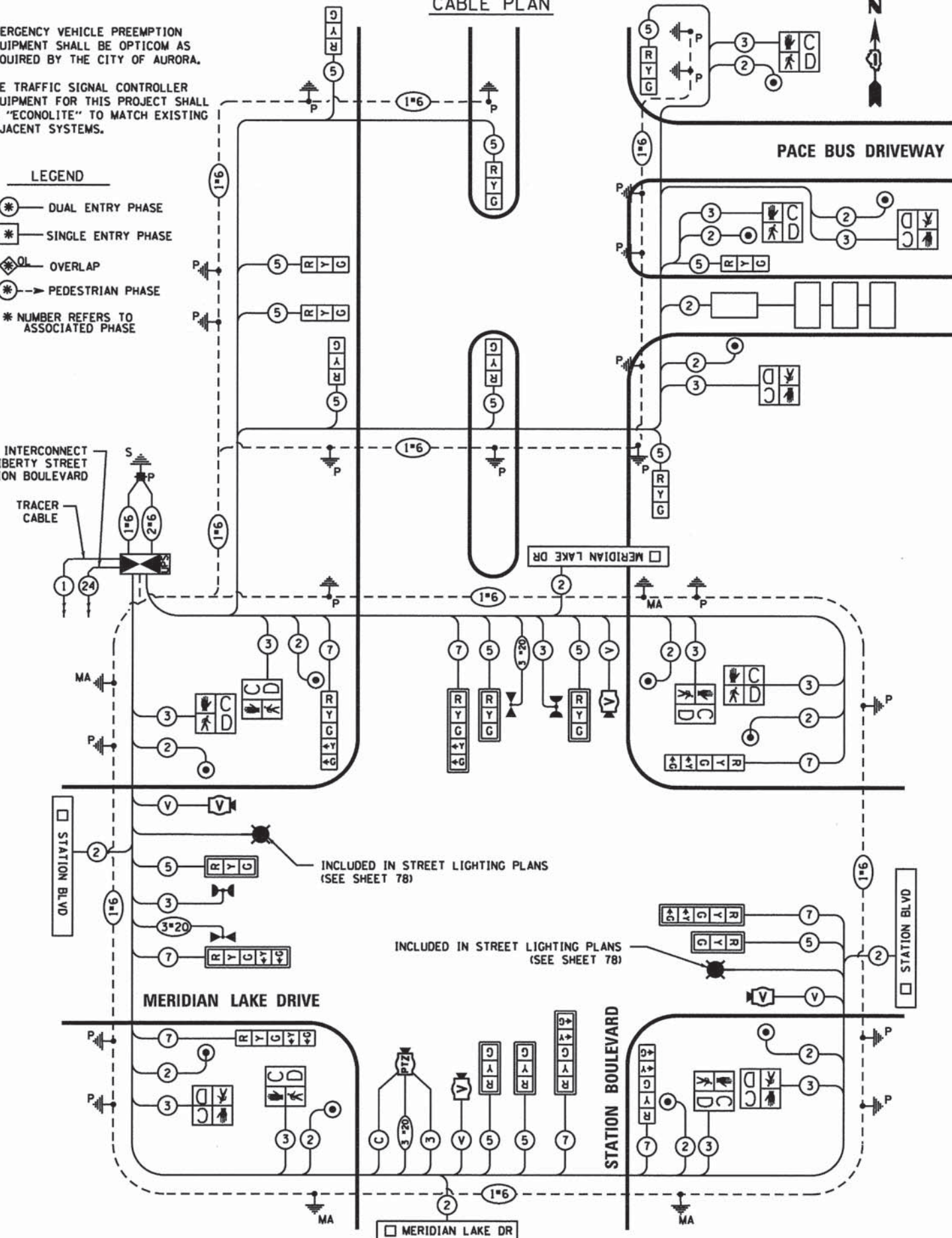
PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	← → ↑ ↓

EMERGENCY VEHICLE PREEMPTION SEQUENCE

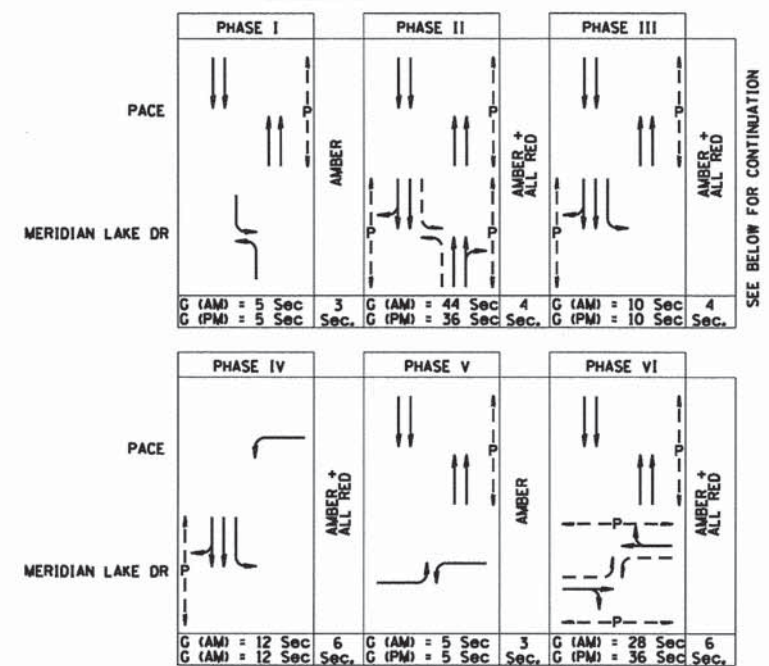
TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	23	17		50%	195.50
(YELLOW)	23	25		25%	143.75
(GREEN)	23	15		25%	86.25
ARROW	16	12		10%	19.20
PED. SIGNAL	12	25		100%	300.00
CONTROLLER	1	100		100%	100.00
VIDEO DETECTION	1	150		100%	150.00
BATTERY BACKUP	1	25		100%	25.00
VILL. SYSTEM	1	100		100%	100.00
ILL. SNS	4	64		50%	128.00
ENERGY COSTS TO: CITY OF AURORA					TOTAL = 1247.70

ENERGY SUPPLY CONTACT: **LAME SIBLY**
 PHONE: (630) 723-2397
 COMPANY: COMED

CABLE PLAN



SEQUENCE OF OPERATIONS



SCHEDULE OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	492
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	185
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	94
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	890
81400100	HANDHOLE	EACH	5
81400300	DOUBLE HANDHOLE	EACH	2
85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	20
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,870
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,402
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,663
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,595
87301305	ELECTRIC CABLE IN CONDUIT LEAD-IN, NO 14, 1-PAIR	FOOT	395
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	484
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,574
87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	7
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	9
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	4
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	64
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	24
87900200	DRILL EXISTING HANDHOLE	EACH	6
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
88500100	INDUCTIVE LOOP DETECTOR	EACH	1
88600100	DETECTOR LOOP, TYPE I	FOOT	243
88700200	LIGHT DETECTOR	EACH	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	12
89502380	REMOVE EXISTING HANDHOLE	EACH	1
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	364
X0326286	ETHERNET SWITCH	EACH	1
X0326773	MODIFY EXISTING TRAFFIC SIGNAL POST FOUNDATION	EACH	4
X0326885	VIDEO DETECTION SYSTEM	EACH	1
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
X8730320	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 20 3/C, TWISTED, SHIELDED	FOOT	145
X8770127	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1
X8770135	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	2
X8770142	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. (SPECIAL)	EACH	1
XX003584	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	145
XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1



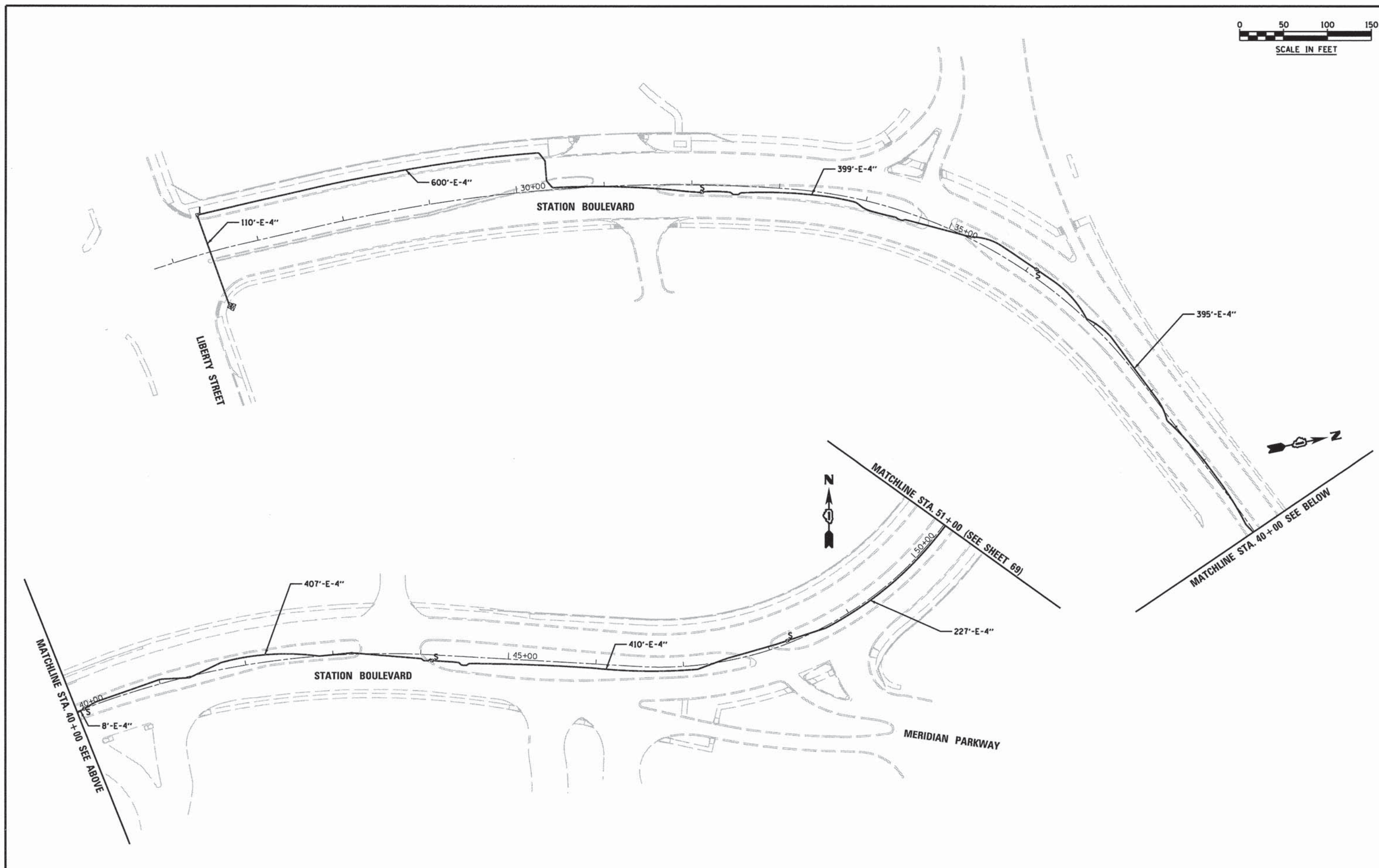
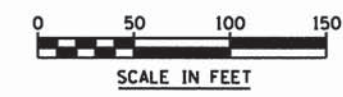
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 CHECKED - MJR
 DATE - 10-09-15

REVISIED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
 DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 SCALE: N.T.S. SHEET 2 OF 5 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	67
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				




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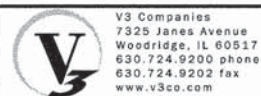
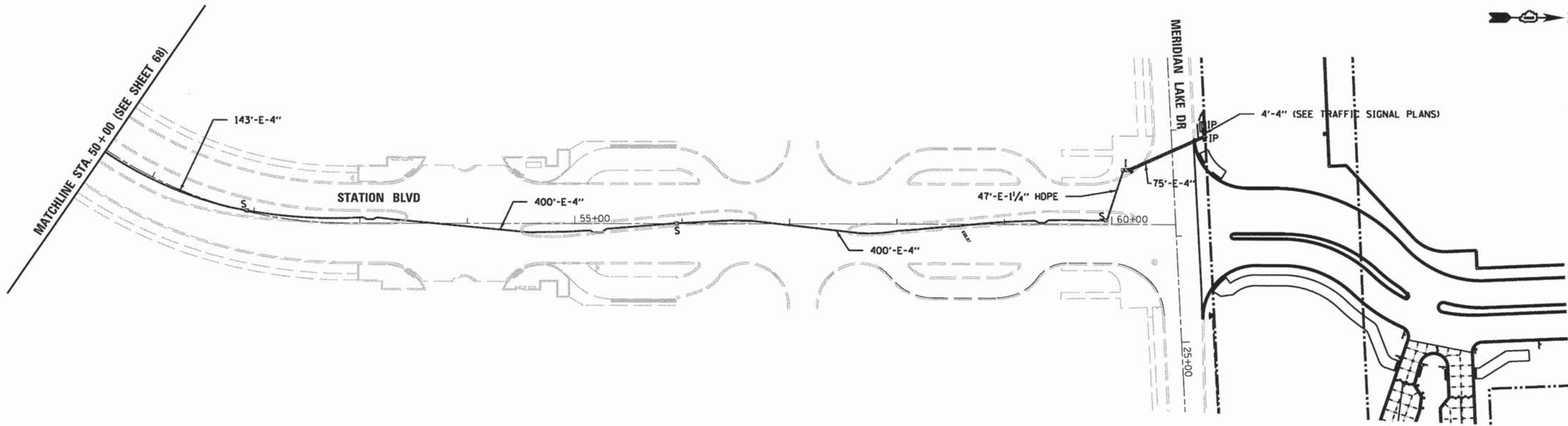
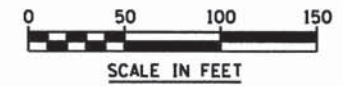
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 DRAWN - CAS
 CHECKED - MJR
 DATE - 10-09-15

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
STATION BOULEVARD FROM LIBERTY STREET TO MERIDIAN LAKE DRIVE
 SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	68
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



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	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
STATION BOULEVARD FROM LIBERTY STREET TO MERIDIAN LAKE DRIVE

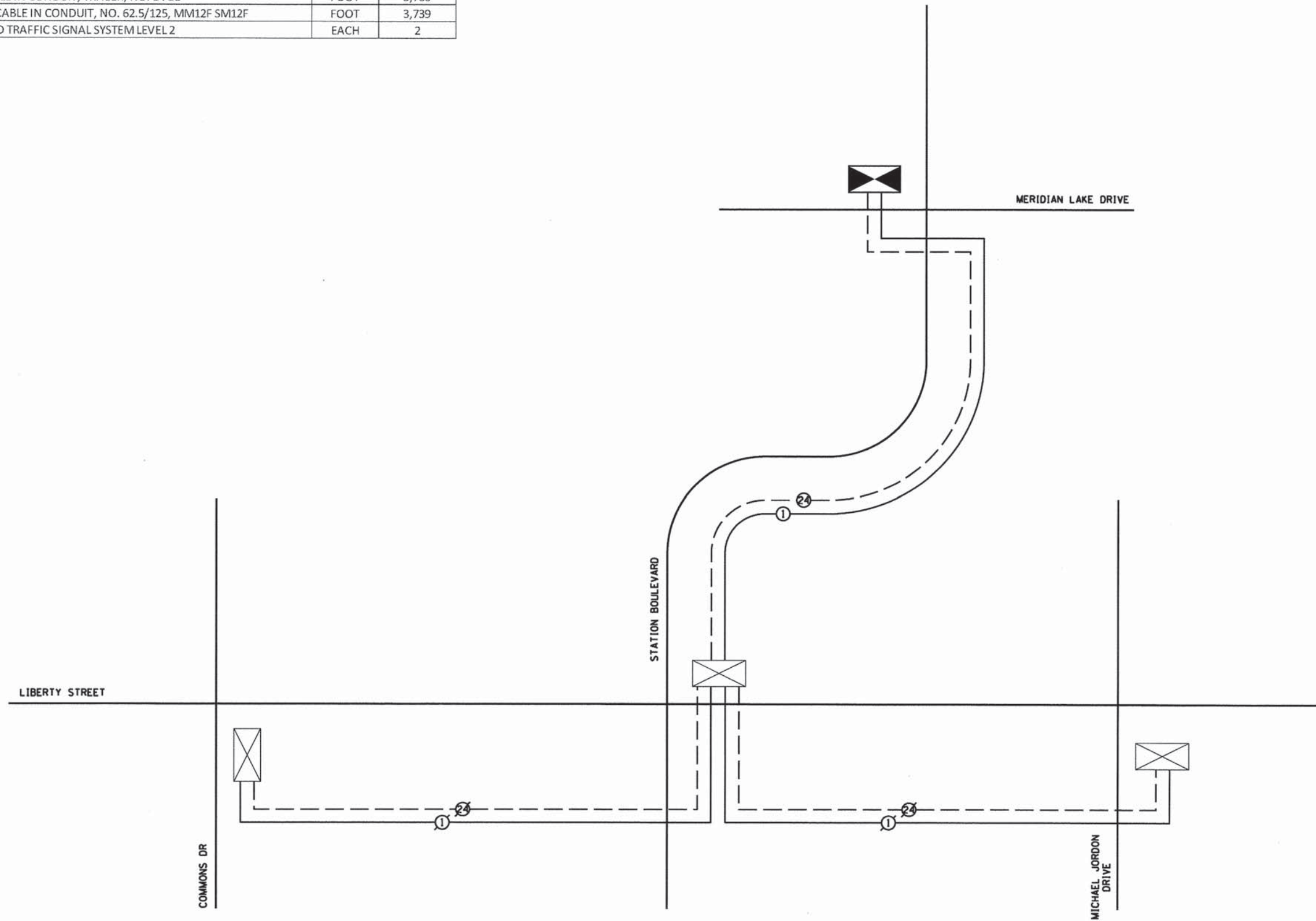
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	69
CONTRACT NO. 61B33				

SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

SCHEDULE OF QUANTITIES

CODE NUMBER	ITEM	UNIT	QTY
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,760
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3,739
Z0033046	RE-OPTIMIZED TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2



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 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
STATION BOULEVARD

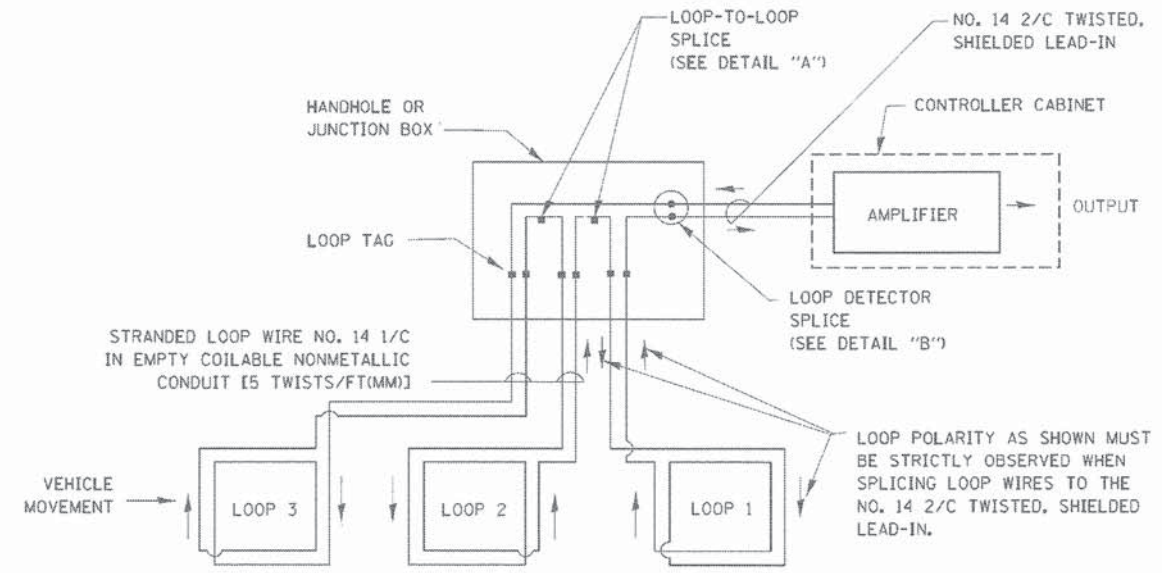
SCALE: N.T.S. SHEET 5 OF 5 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	70
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

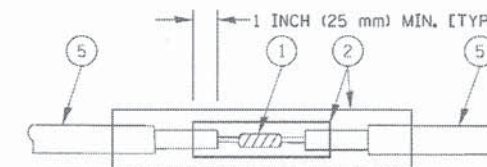
LOOP DETECTOR NOTES

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

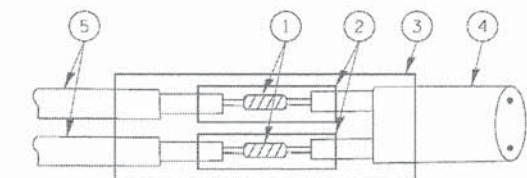


DETECTOR LOOP WIRING SCHEMATIC

- 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.

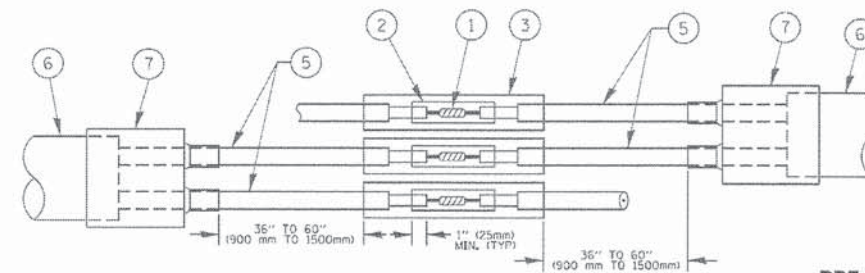


DETAIL "A"
LOOP-TO-LOOP SPLICE

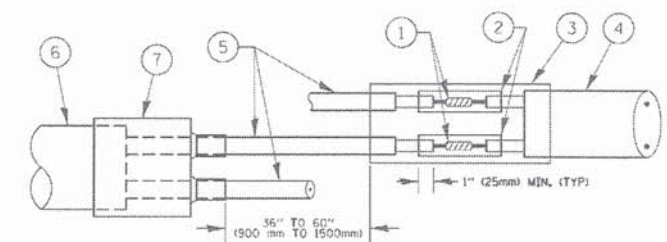


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



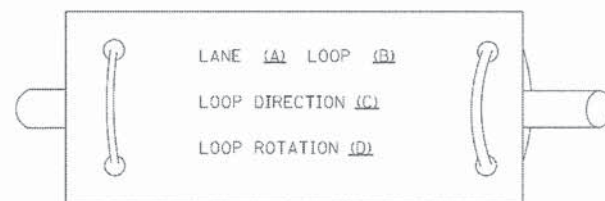
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED 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 PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

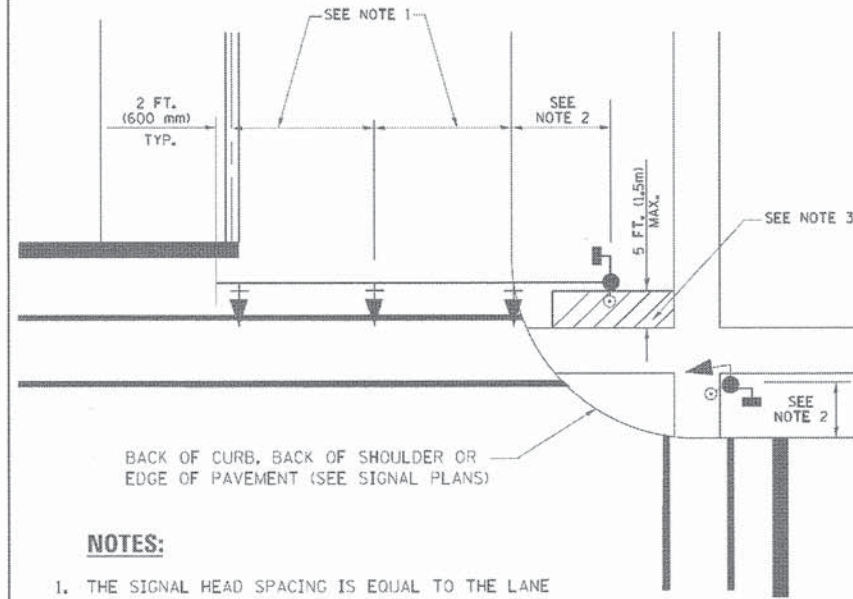
LOOP LEAD-IN CABLE TAG



- 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.

FILE NAME *	USER NAME = Footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwwork\products\Footemj\2013\13-05-05	DRAWN - BCK	CHECKED - DAD	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA.	13-00300-00-PK	DuPage	107	72
PLOT SCALE = 5/8"=1'-0"	DATE - 10-28-09	DATE - 10-28-09	REVISED -		TO STA.	FED. ROAD DIST. NO. 1		TS-05	ILLINOIS	CONTRACT NO. 61633	
PLOT DATE = 1/13/2014						ILLINOIS		FED. AID PROJECT			

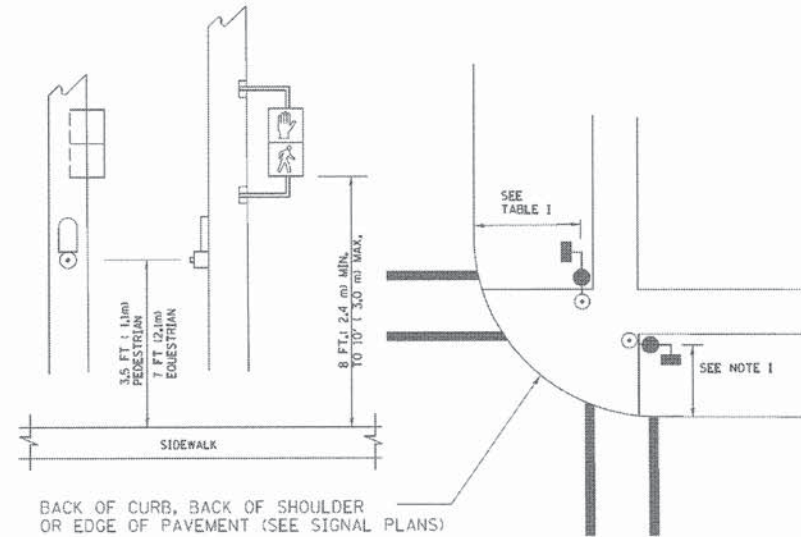
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

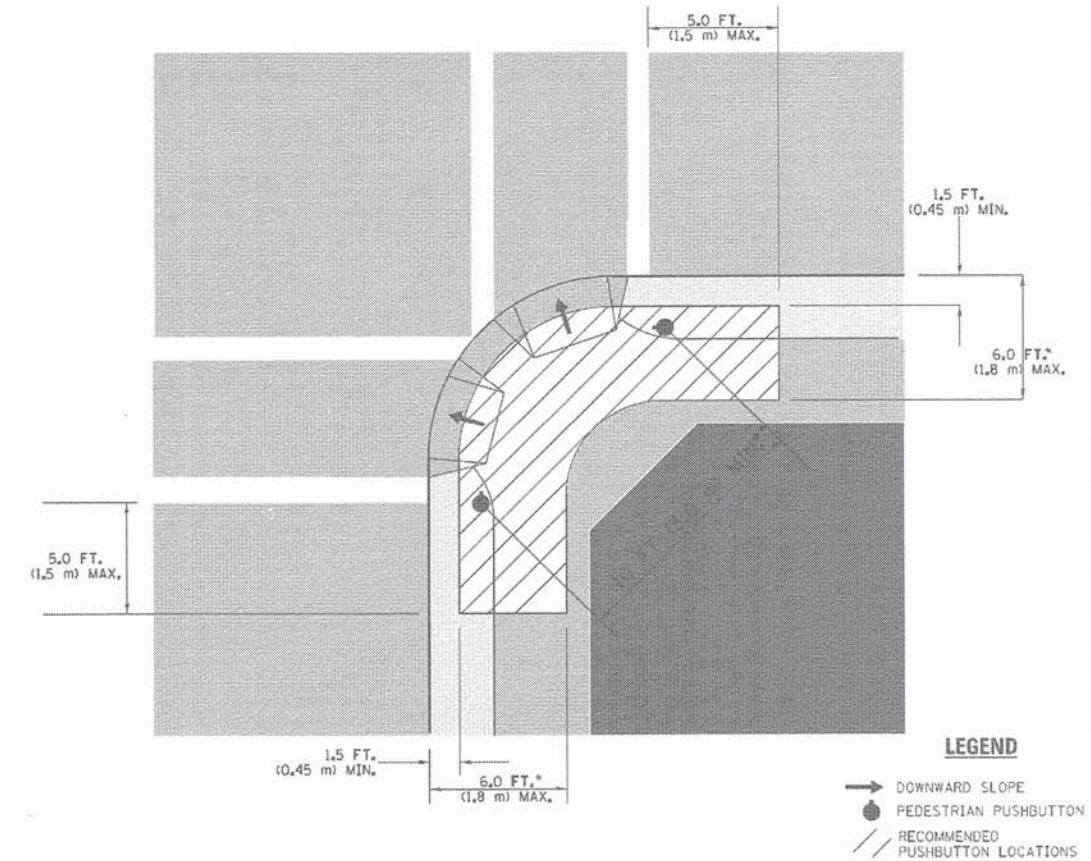
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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:

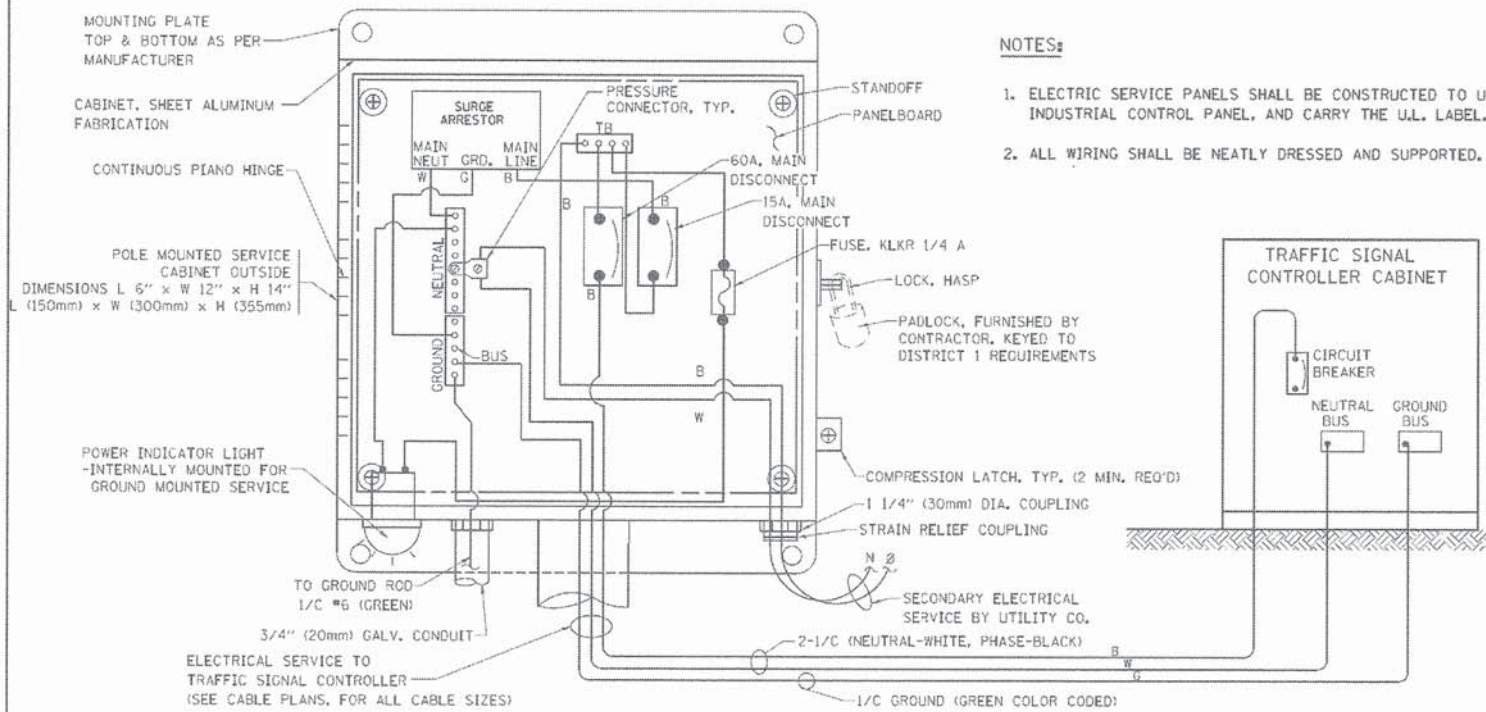
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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

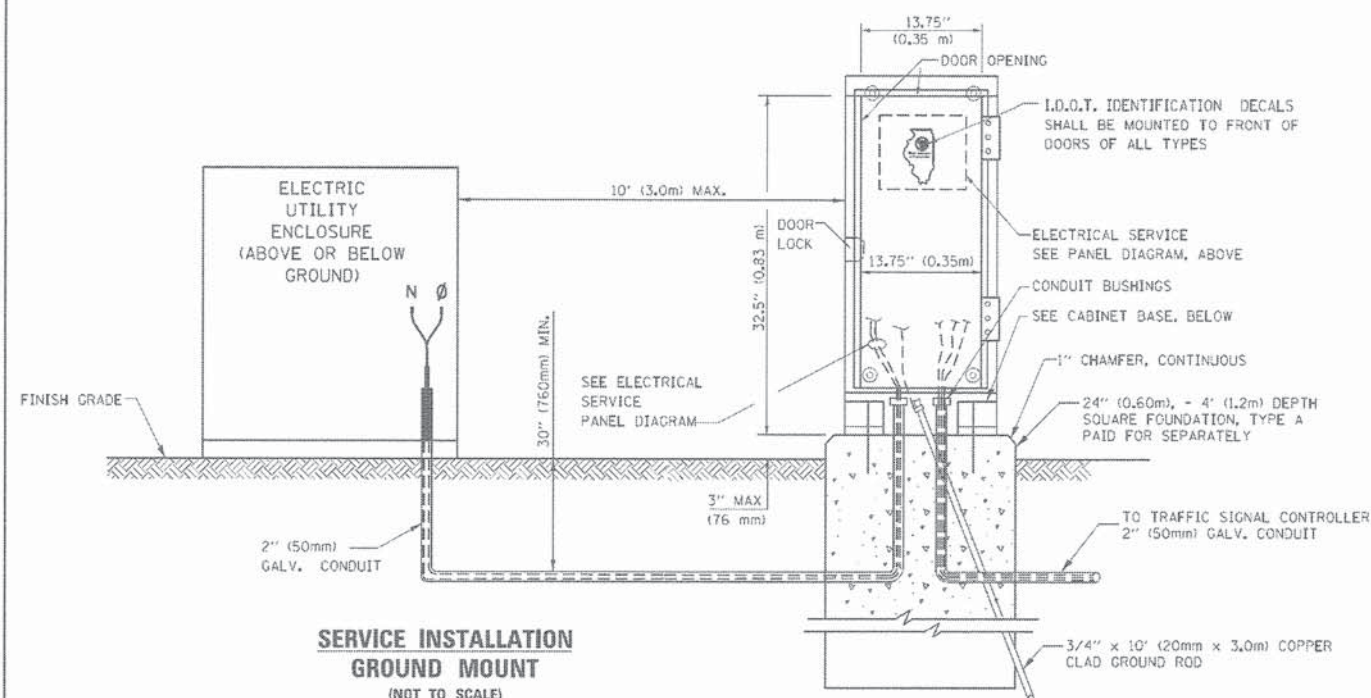
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

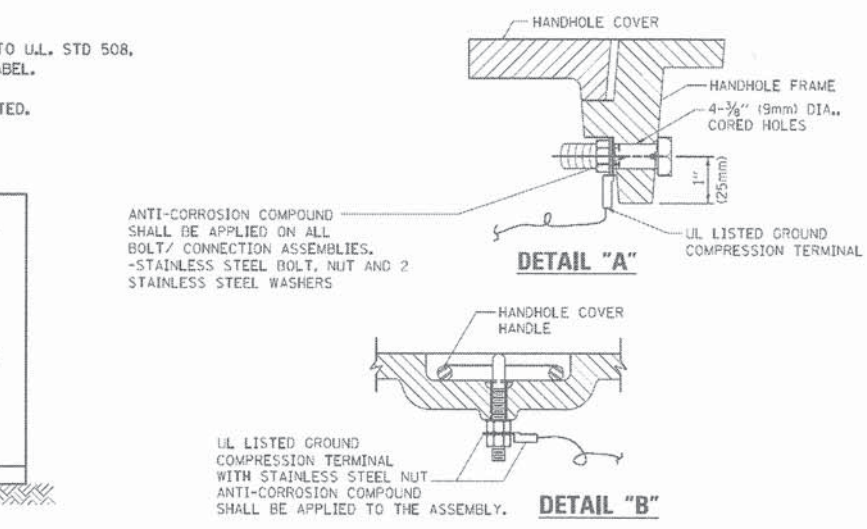
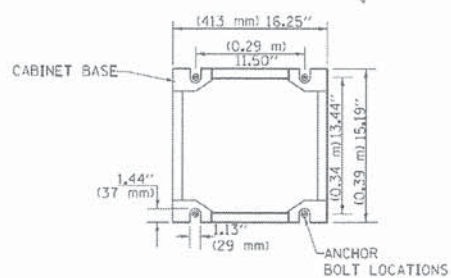


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



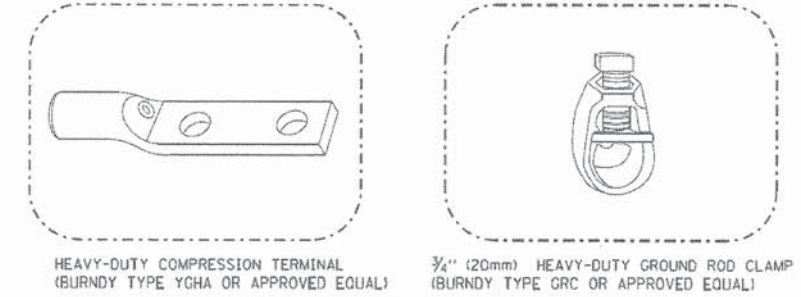
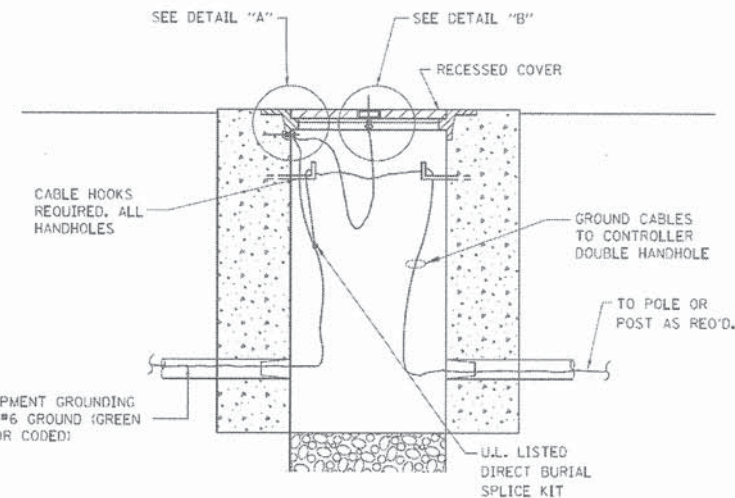
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



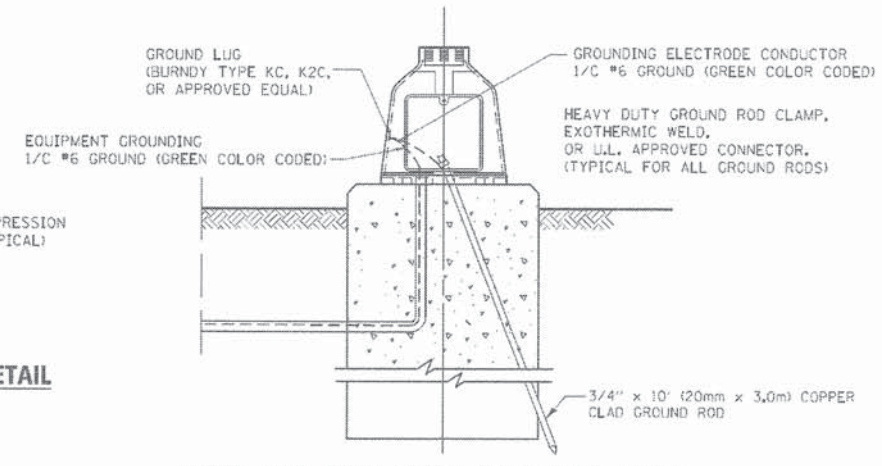
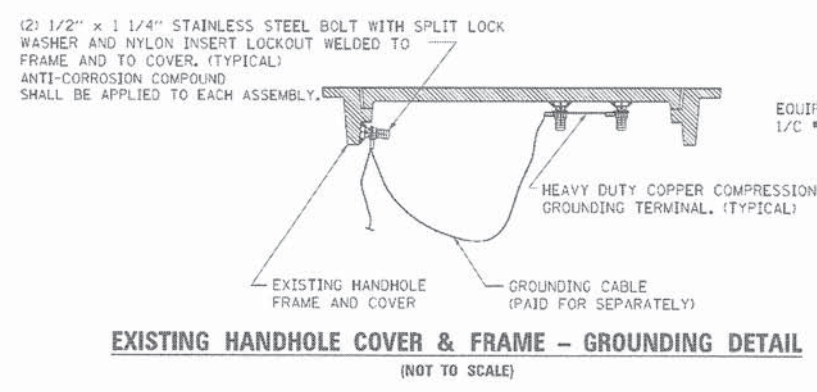
NOTES:
GROUNDING SYSTEM

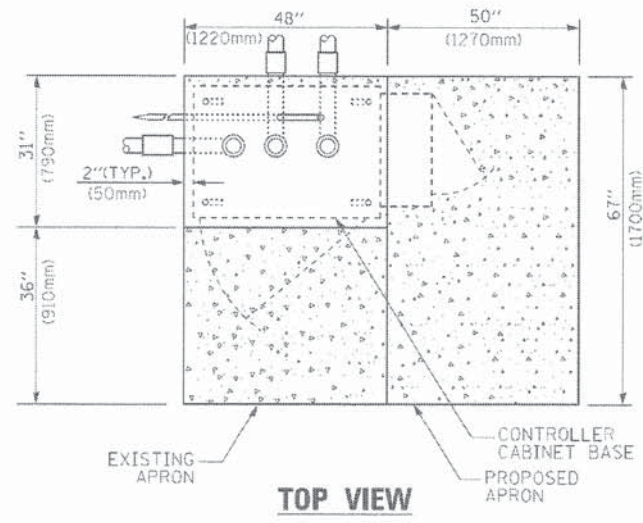
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS, THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, 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.



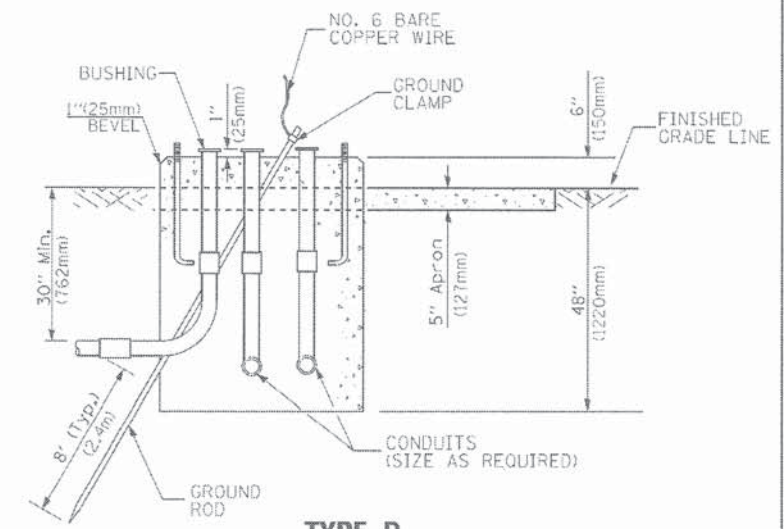
NOTES:

- 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.

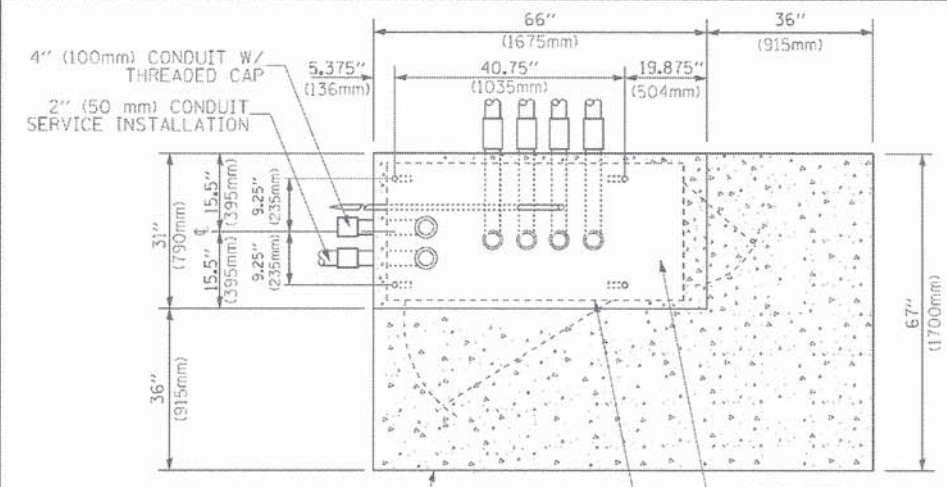




TOP VIEW

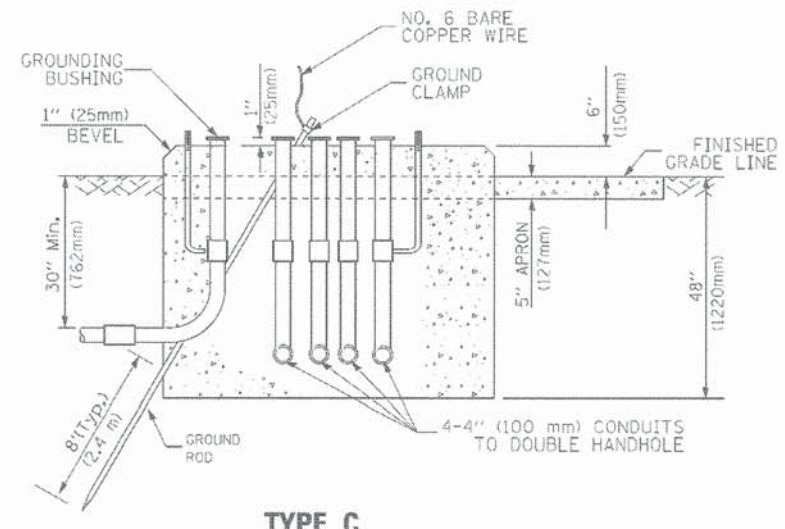


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

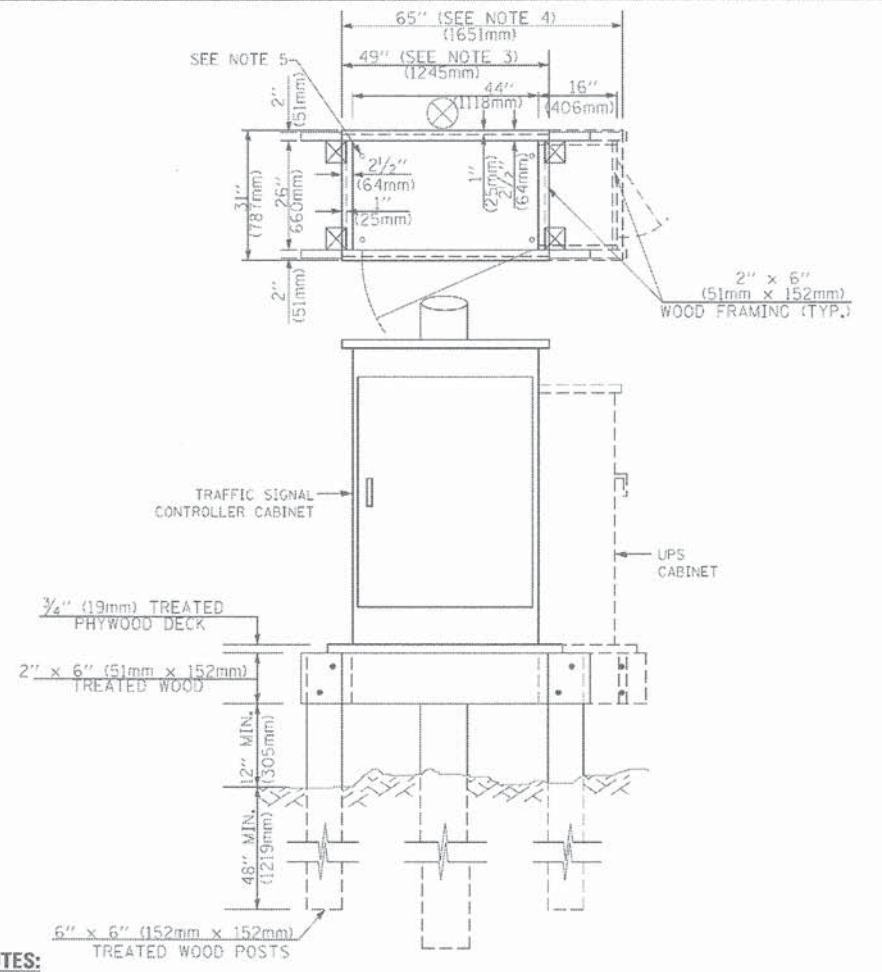


TOP VIEW

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



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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)

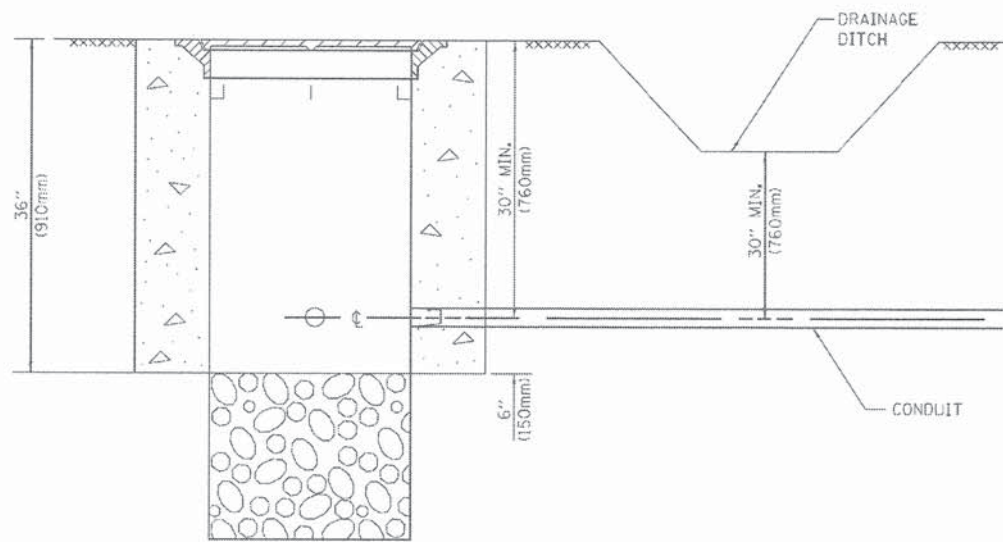
DEPTH OF FOUNDATION

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)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

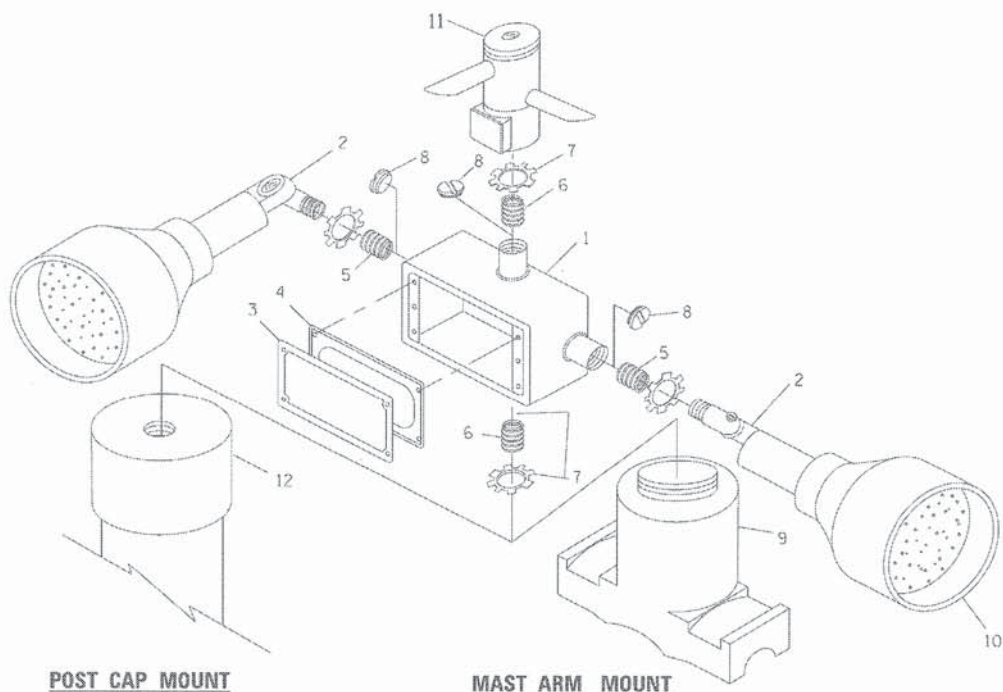
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

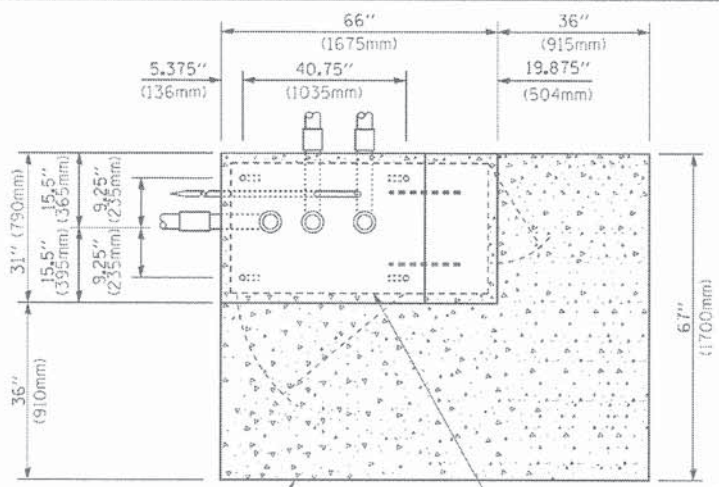


POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

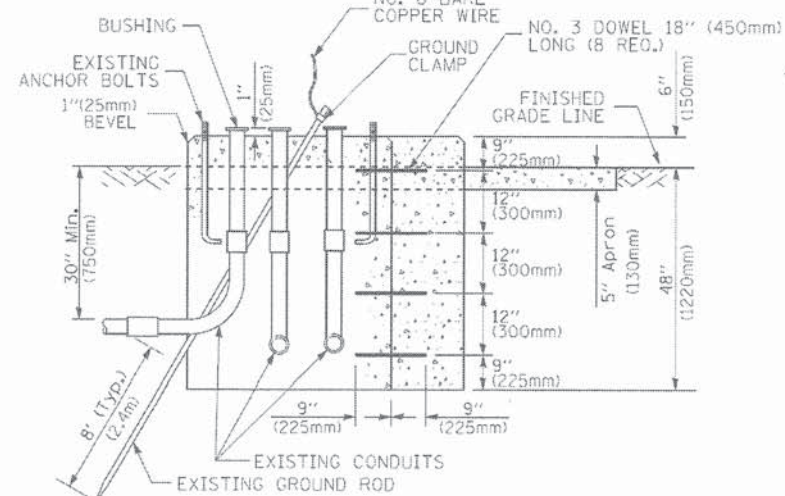
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

NOTES:

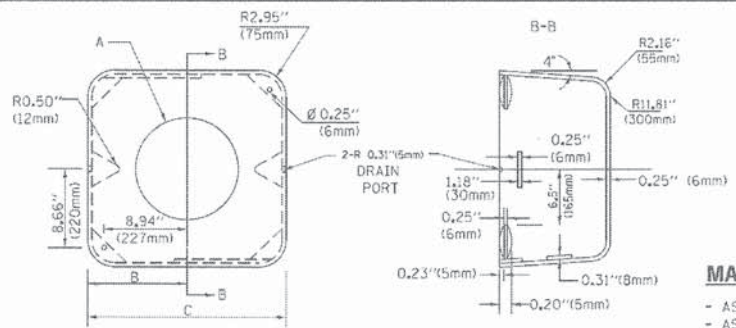
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE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



TOP VIEW
(NOT TO SCALE)



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



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

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

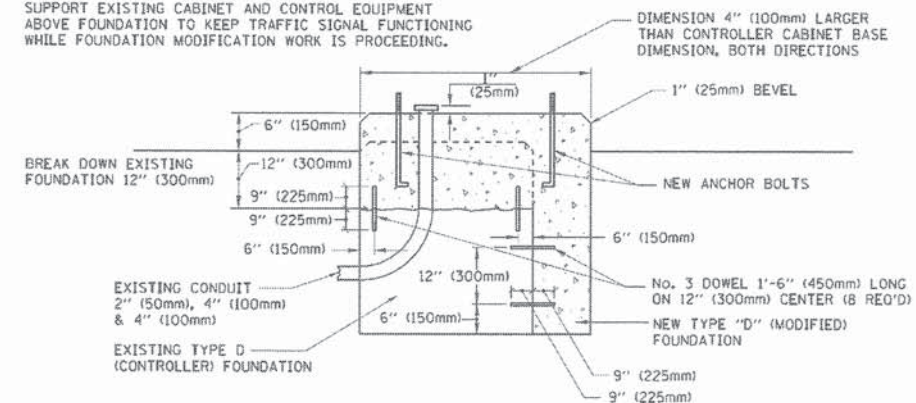
SHROUD

NOTES:

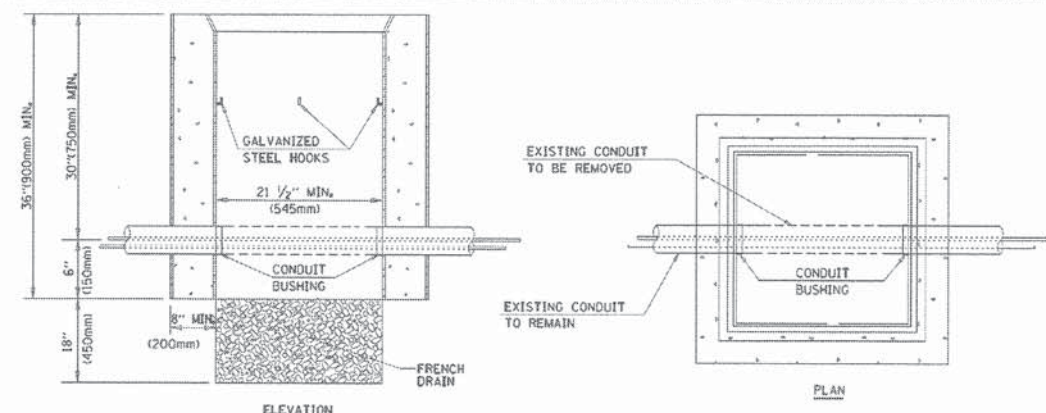
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

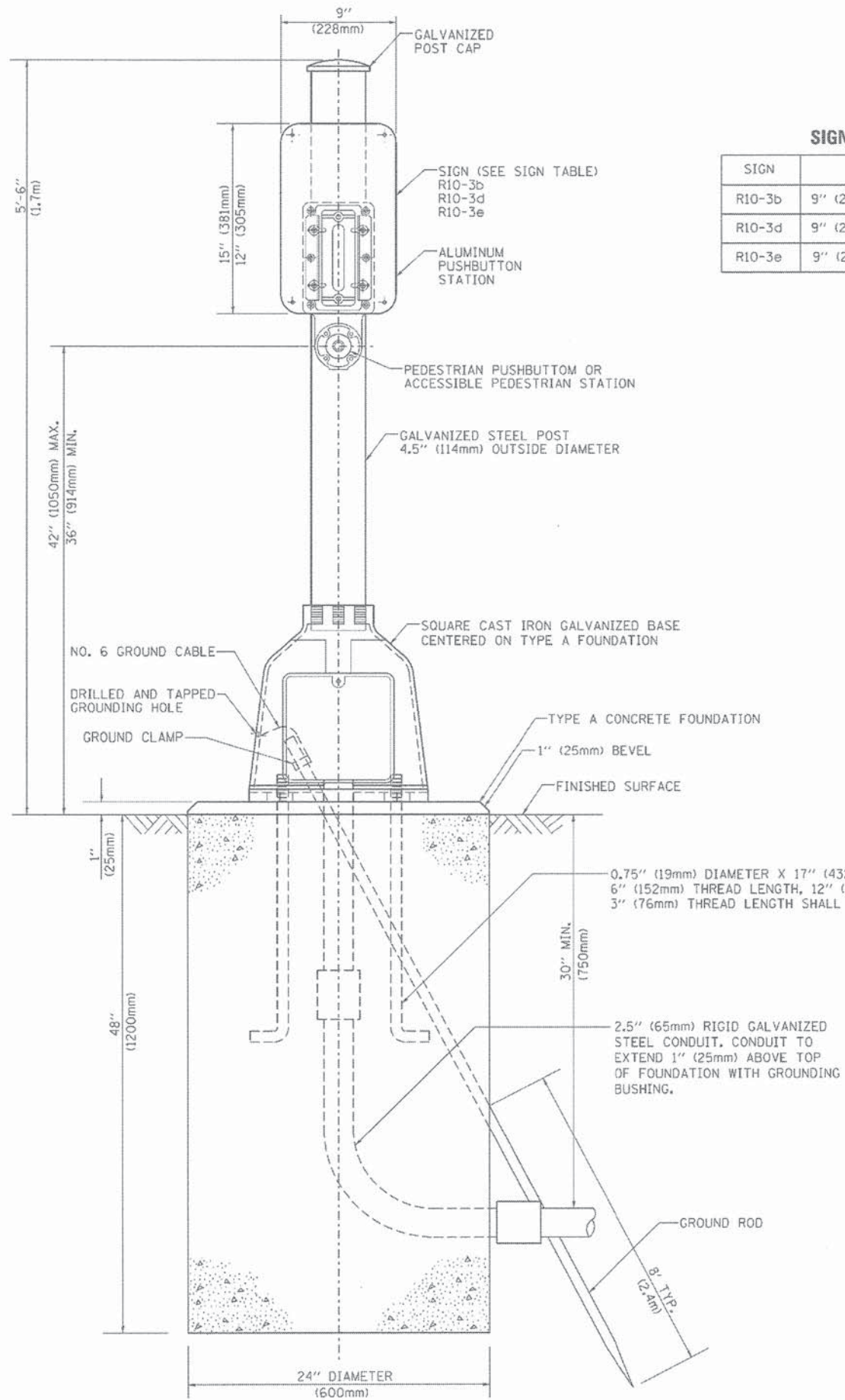
HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = Footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\pvc\work\tsd\tsd\footemj\08100315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

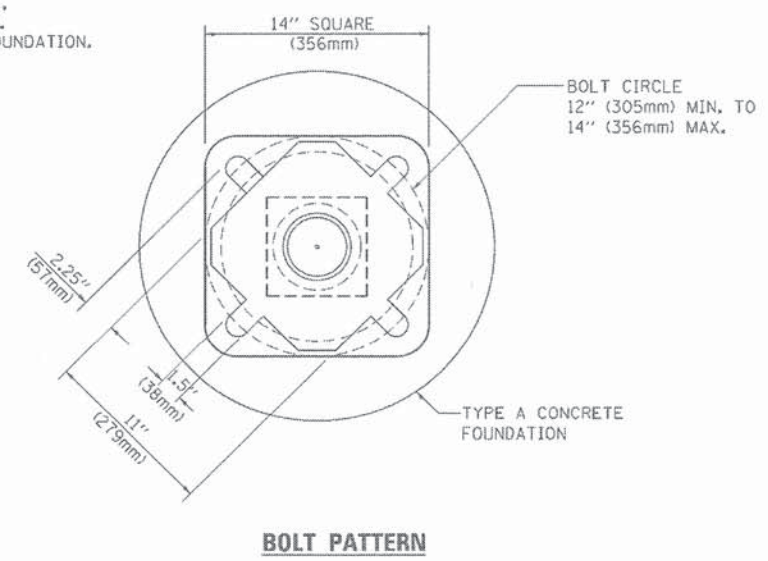
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00300-00-PK	DuPage	107	76
	TS-05		CONTRACT NO. 61833	
FED. ROAD DIST. NO. 1 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

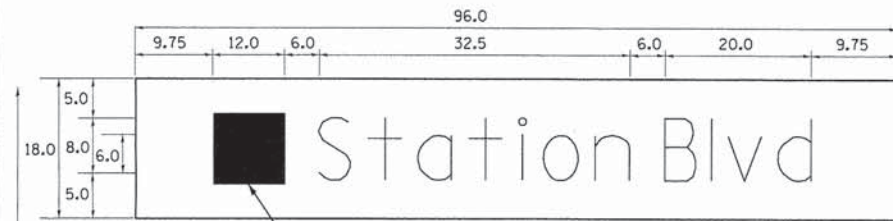
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PLDT SCALE = 5/8" = 1' / 1"		CHECKED - DAD	REVISED -
PLDT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

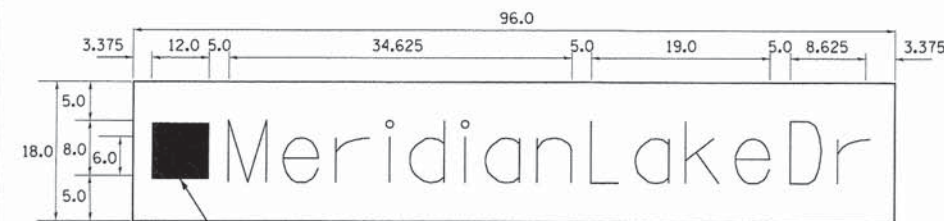
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00300-00-PK	DuPage	107	77
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61833	

PANEL SIGN DESIGN INTERNALLY ILLUMINATED



CITY LOGO DECAL TO BE OBTAINED FROM THE CITY OF AURORA

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.00	LED ILL.	-	2



CITY LOGO DECAL TO BE OBTAINED FROM THE CITY OF AURORA

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	12.00	LED ILL.	-	2

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

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

LOCAL SUPPLIERS:

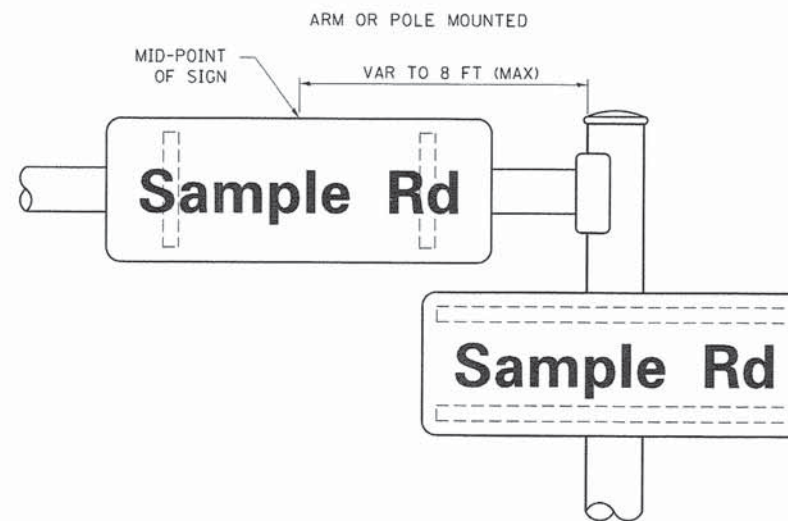
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

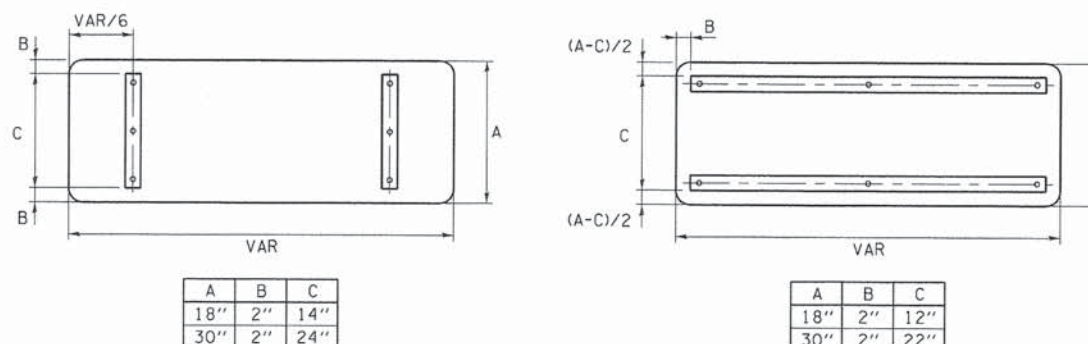
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

MOUNTING LOCATION



SUPPORTING CHANNELS



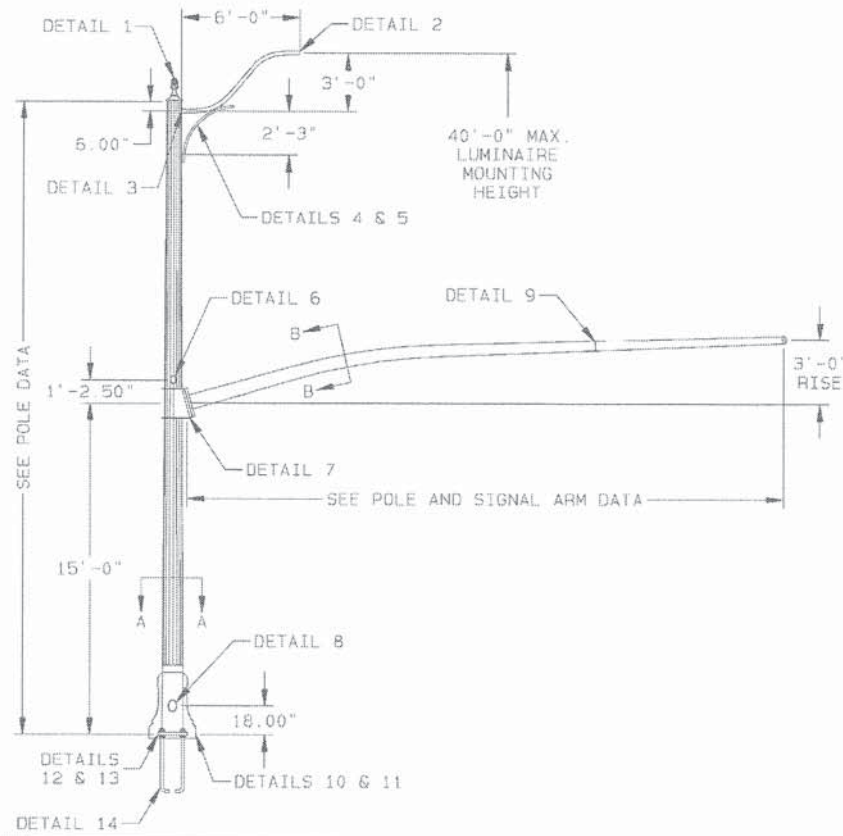
A	B	C
18"	2"	14"
30"	2"	24"

A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

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

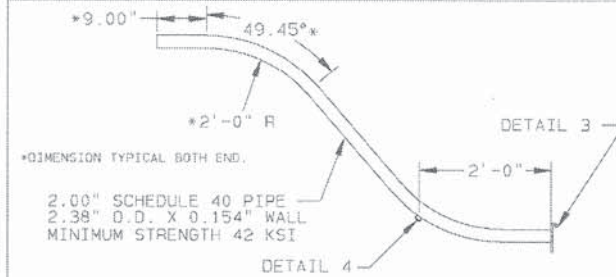
FHWA SERIES "C"			FHWA SERIES "D"				
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240



REMOVABLE PINEAPPLE CAP



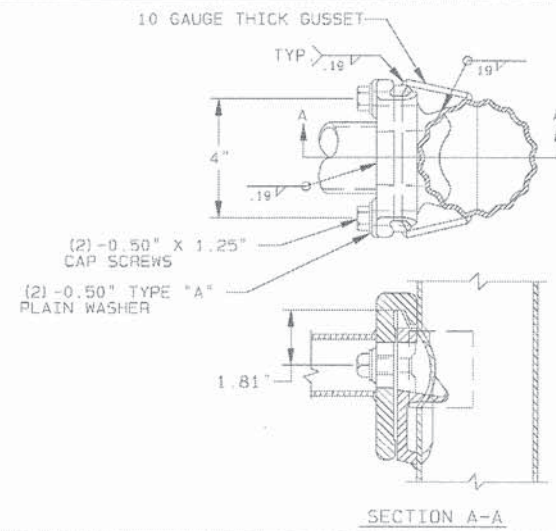
DETAIL 1 PINEAPPLE CAP ASSEMBLY



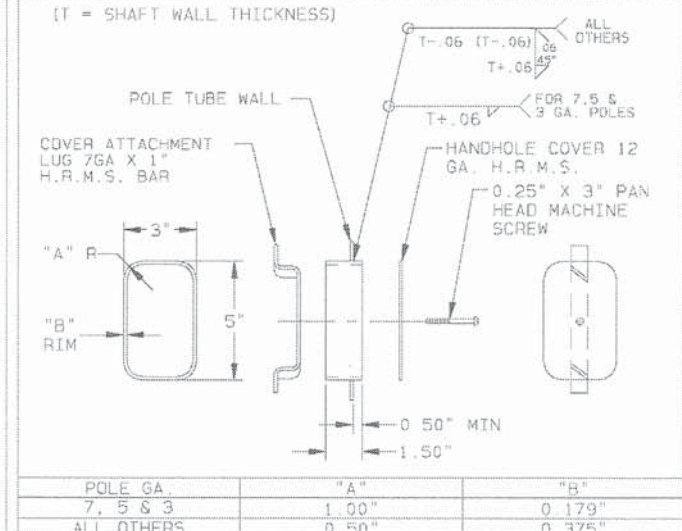
DETAIL 2 6'-0" LUMINAIRE ARM

BASE COAT: HOT DIP GALVANIZE TO ASTM A123
 PRIME COAT: NEW HIGH BUILD EPOXY POWDER
 FINISH COAT: PENTABOND POWDER
 COLOR: AURORA BLACK
 VALMONT SPEC: F-573A (5 YEAR WARRANTY SPEC.)

FINISH NOTE

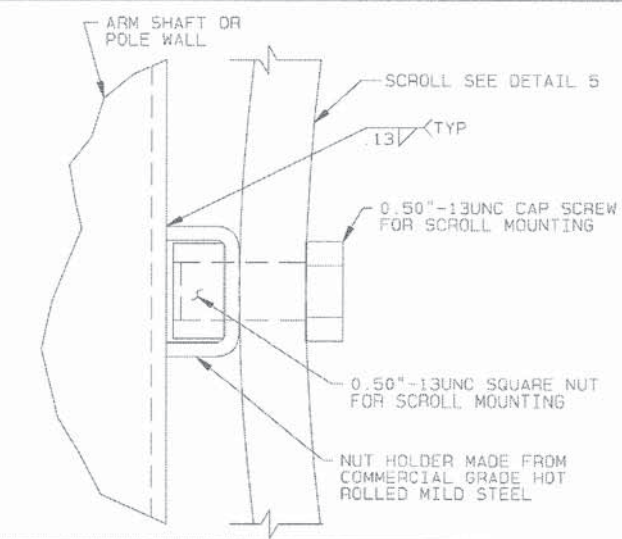


DETAIL 3 LUMINAIRE ARM ATTACHMENT

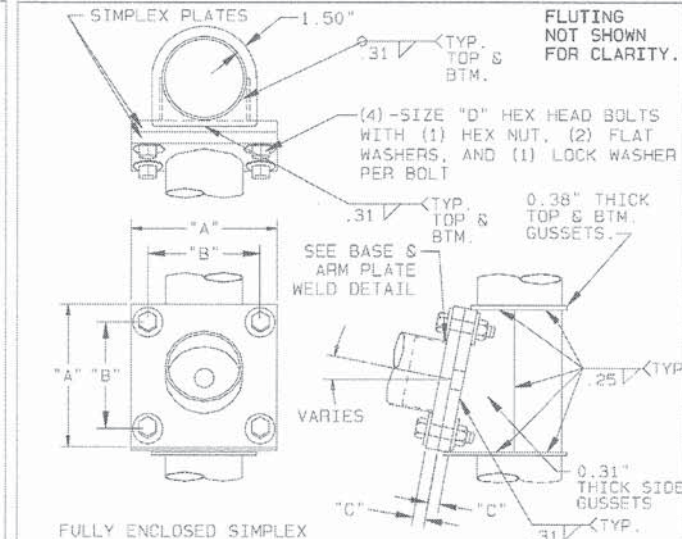


DETAIL 6 HANDHOLE

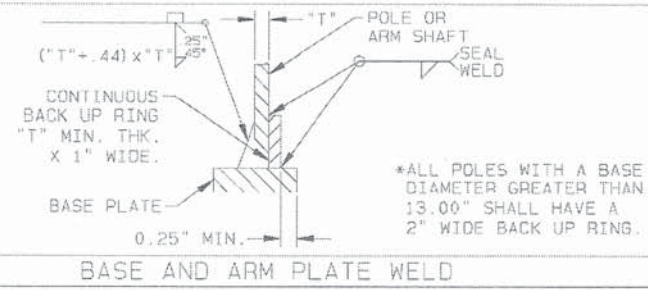
POLE GA.	"A"	"B"
7, 5 & 3	1.00"	0.179"
ALL OTHERS	0.50"	0.375"



DETAIL 4 SCROLL ATTACHMENT



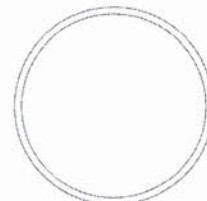
DETAIL 7 SINGLE SIGNAL ARM ATTACHMENT



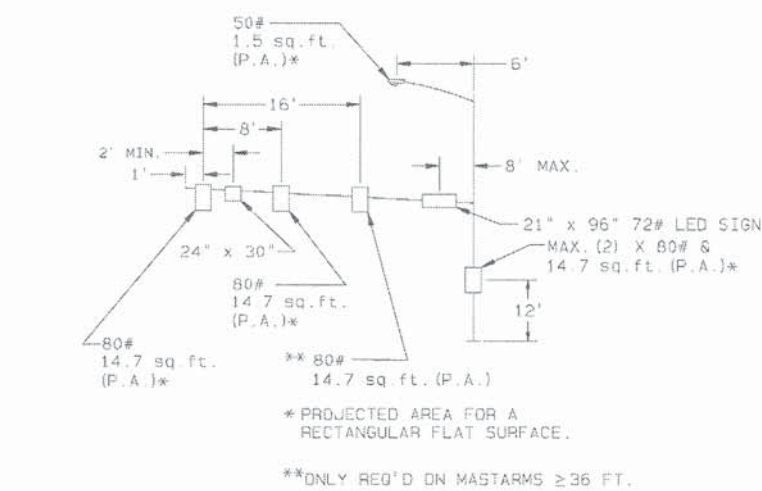
BASE AND ARM PLATE WELD



SECTION A-A 16-SHARP FLUTE

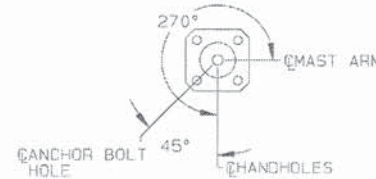


SECTION B-B ROUND

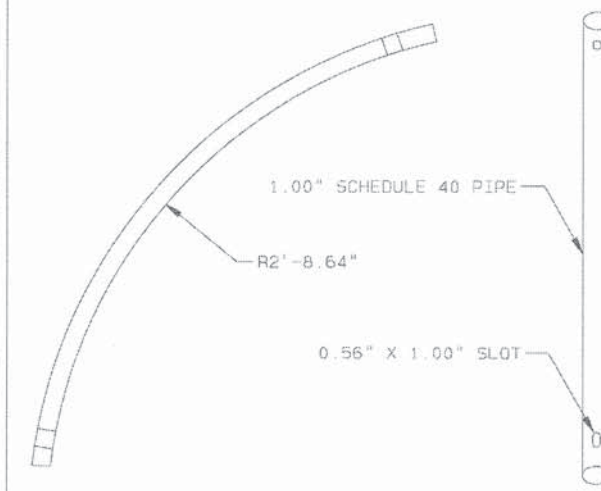


TYPICAL LOADINGS 25' THRU 55' ARMS

ALL ANGLES MEASURED CLOCKWISE FROM HAND-HOLE AS VIEWED FROM SMALL END OF POLE.



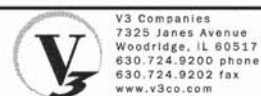
RADIAL INDEX



DETAIL 5 SCROLL ARM

SIGNAL ARM ATTACHMENT DATA

ARM SPAN (FT)	"A" (IN)	"B" (IN)	"C" (IN)	"D"
20-25	16.63	13.38	1.25	1.25" X 4.75"
25-30	17.88	13.88	1.50	1.25" X 4.75"
31-35	17.88	13.88	1.50	1.25" X 4.75"
35-40	19.75	16.50	2.00	1.25" X 5.75"
41-45	19.75	16.50	2.00	1.25" X 5.75"
45-50	19.75	16.50	2.00	1.25" X 5.75"
51-55	21.25	17.50	2.00	1.50" X 6.00"



V3 Companies
 7325 Janes Avenue
 Woodridge, IL 60517
 630.724.9200 phone
 630.724.9202 fax
 www.v3co.com

USER NAME = bherl
 DESIGNED - CAS
 DRAWN - CAS
 CHECKED - MJR
 DATE - 10-09-15

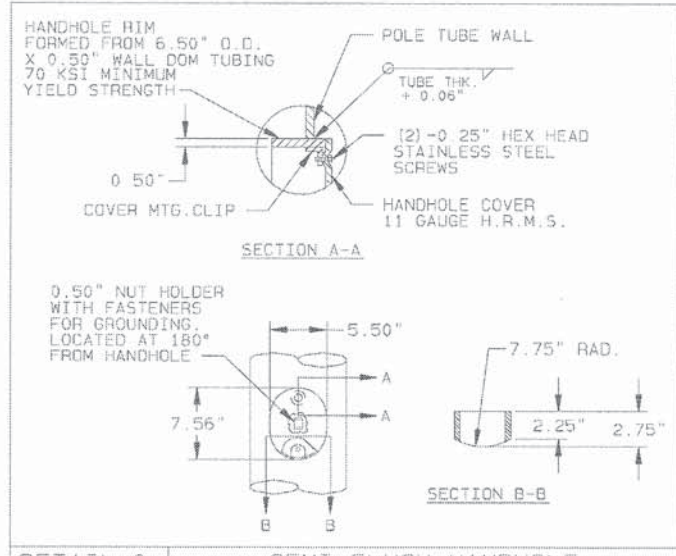
REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

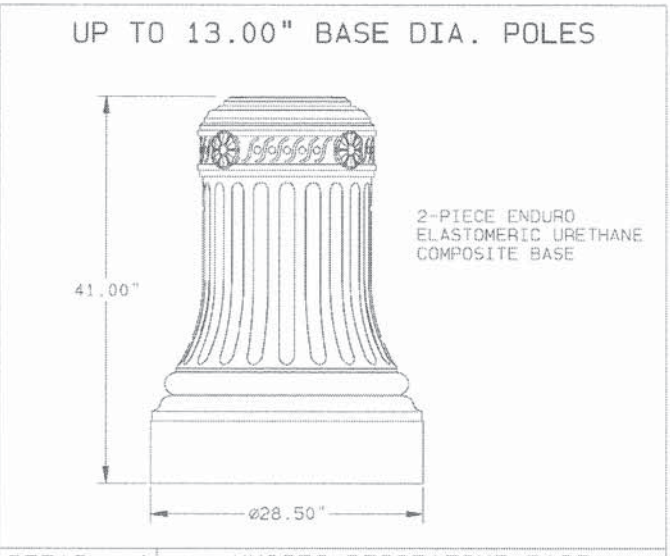
TRAFFIC SIGNAL MAST ARM AND POLE DETAILS
 SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	79

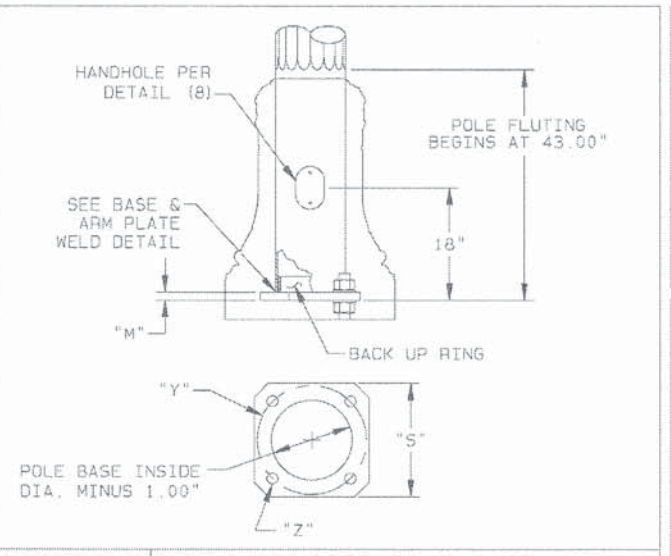
CONTRACT NO. 61B33
 ILLINOIS FED. AID PROJECT



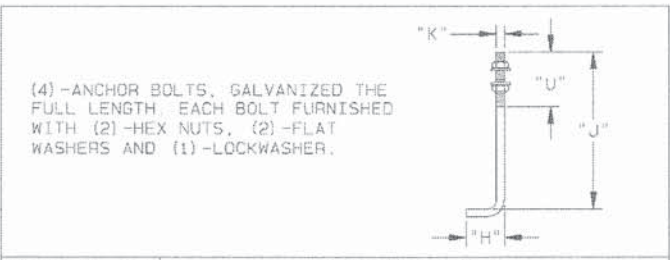
DETAIL 8 SEMI-FLUSH HANDHOLE



DETAIL 10 HN29EC DECORATIVE BASE



DETAIL 12 HN29EC POLE BASE

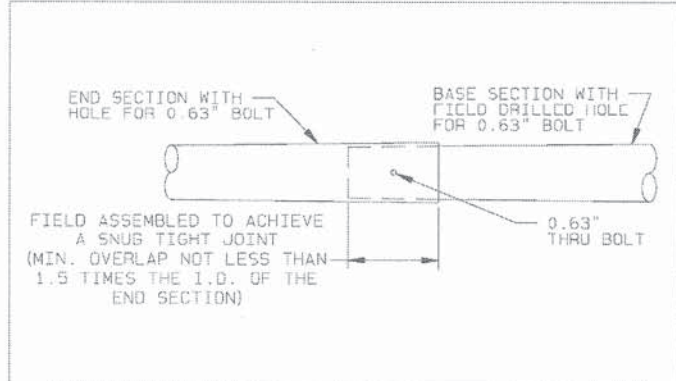


DETAIL 14 ANCHOR BOLT

- NOTES:
1. POLE AND ARM SHAFTS 13.00" AND SMALLER-CONFORMS TO ASTM DESIGNATION: A595 GR. A WITH 55,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT. POLE AND ARM SHAFTS LARGER THAN 13.00"-CONFORMS TO ASTM DESIGNATION: M-223 A572 GR. 65 WITH A 65,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT.
 2. BASE PLATE AND SIMPLEX PLATES-CONFORM TO AASHTO M-223 GR. 50 (ASTM: A572 GR. 50).
 3. ANCHOR BOLTS-ALL STRUCTURES: ASTM F1554 GR.105 105,000 P.S.I. MINIMUM YIELD STRENGTH. (AASHTO M314)
 4. TRAFFIC SIGNAL ARM END CAP SECURED IN PLACE WITH 3 STAINLESS STEEL SET SCREWS. (TRAFFIC SIGNAL ARM END CAP PROVIDED WITH (2) ADDITIONAL STAINLESS STEEL HEX BOLTS).
 5. ALL NON-STAINLESS THREADED FASTENERS TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).
 6. SIMPLEX CONNECTING BOLTS-ASTM DESIGNATION: A325 (M164) GALVANIZED TO ASTM DESIGNATION: A153 LUBRICATE THREADS IN FIELD IF NECESSARY BEFORE INSTALLATION.
 7. ALL VEHICULAR AND/OR PEDESTRIAN SIGNAL LIGHTS AND NECESSARY HARDWARE FOR ATTACHMENT TO BE FIELD LOCATED AND FURNISHED BY OTHERS.
 8. POLES AND ARMS TO BE GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO M111). ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).
 9. ACCESS HOLES IN ARMS AT SIGNALS TO BE FIELD DRILLED BY CONTRACTOR-LOCATED AS SHOWN IN PLANS.
 10. LUMINAIRE ARM SHAFT CONFORMS TO 2" SCHEDULE 40 PIPE W/ 36,000 PSI MIN. YIELD STRENGTH.
 11. SHAFT GAUGE OR THICKNESS ARE AS FOLLOWS: 11 GA. = 0.1196", 7 GA. = 0.1793", 5 GA. = 0.2092", 3 GA. = 0.2391", AND 2" SCHED.40 PIPE = 0.154".

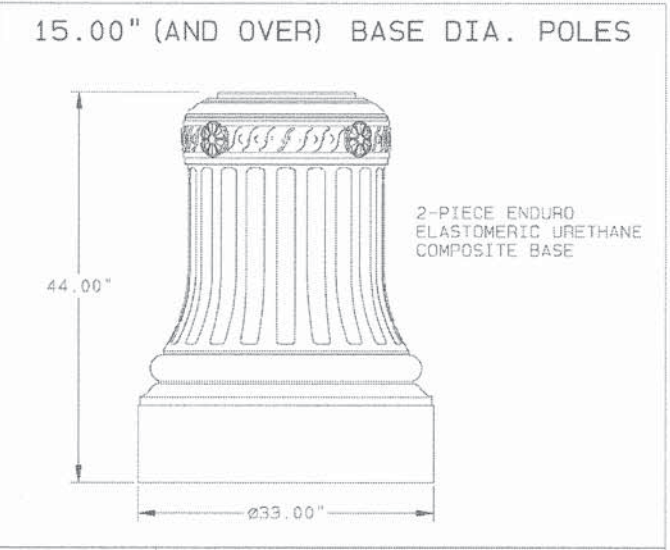
LOADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

STATE OF ILLINOIS
GENERAL NOTES

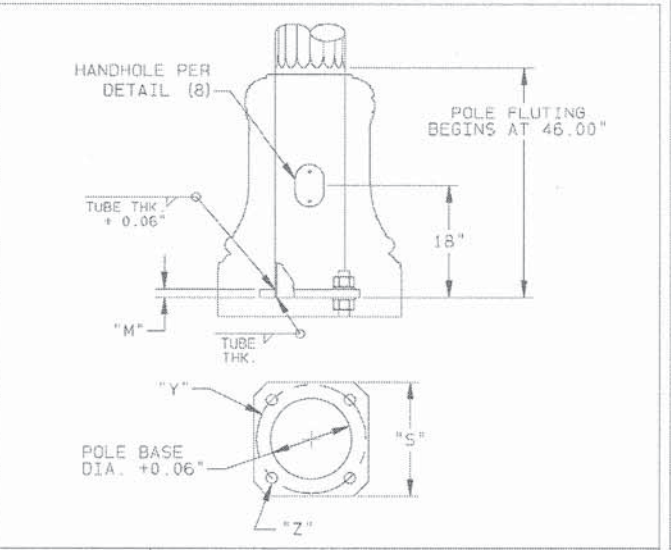


ARM SECTION DATA				
SPAN (FT)	BASE SECTION		END SECTION	
	LENGTH (FT)	GAUGE/THK	LENGTH (FT)	GAUGE/THK
51-55	50.00	5	VARIES	7

DETAIL 9 SIGNAL ARM SLIP JOINT



DETAIL 11 HN33EC DECORATIVE BASE



DETAIL 13 HN33EC POLE BASE



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DRAWN - CAS
CHECKED - MJR
DATE - 10-09-15
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MAST ARM AND POLE DETAILS
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	80
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

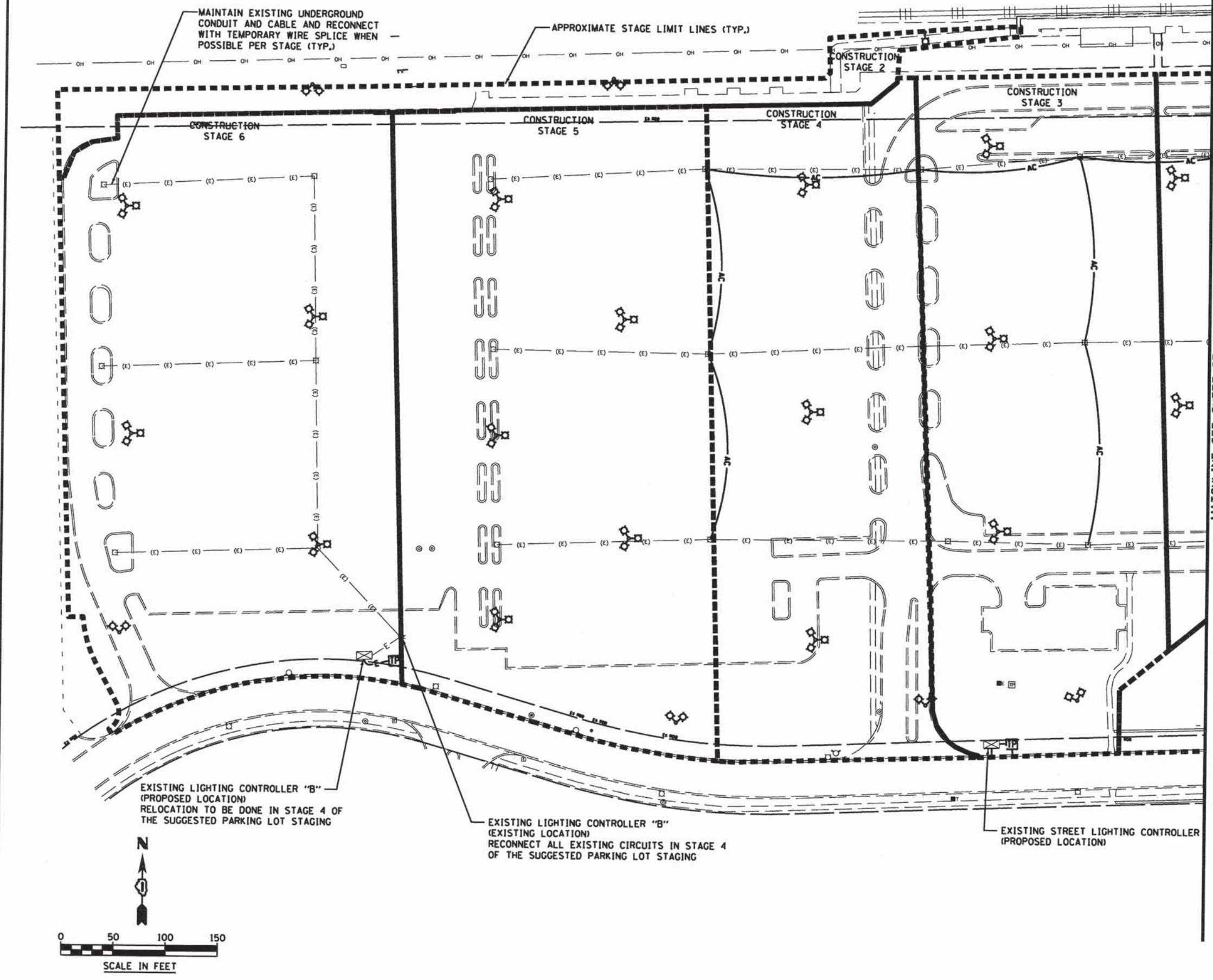
ELECTRICAL SYMBOLS LEGEND

- EXISTING LIGHT POLE TO BE REMOVED PER THE PARKING LOT CONSTRUCTION STAGING.
- EXISTING UNDERGROUND ELECTRIC CABLE
- TEMPORARY LIGHTING CABLE & CONDUIT (SEE NOTE 5)
- AERIAL CABLE, 3-1/C NO. 4 AND 1-1/C NO. 4 WITH MESSENGER WIRE (SEE NOTE 5 BELOW)
- TEMPORARY WOOD POLE (SEE NOTE 5 BELOW)
- EXISTING LIGHTING CONTROLLER AND FOUNDATION
- PROPOSED LIGHTING UNIT (SEE PROPOSED LIGHTING PLANS FOR DETAILS)

NOTES

1. BRANCH CIRCUIT WIRING FOR THE EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED TO THE NEAREST LIGHTING EQUIPMENT TO REMAIN, REMOVE EXISTING WIRE.
2. ALL EXISTING EQUIPMENT TO BE REMOVED AND SALVAGED SHALL BE RETURNED TO THE CITY OF AURORA AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY THE DEMOLITION. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER.
4. WHERE THE CONTINUITY OF CIRCUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS. THE COST OF CONTINUITY OF THE CIRCUIT OR CONDUITS WILL BE INCIDENTAL TO "MODIFY EXISTING CONTROLLER" AND "CABINET AND MAINTAIN EXISTING LIGHTING CONTROLLER".
5. EXACT NUMBER AND SIZE OF WIRE REQUIRED TO BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. THE COST OF ANY WIRE OR MATERIALS REQUIRED TO MAINTAIN EXISTING LIGHTING SHALL BE INCLUDED IN THE COST OF "MAINTENANCE OF LIGHTING SYSTEM".
6. EXISTING POLE MOUNTED CAMERAS AND AERIAL CABLE SHALL BE MAINTAINED TO THE EXTENT POSSIBLE WITHIN ACTIVE PARKING AREAS. THE COST OF MAINTAINING EXISTING POLE MOUNTED CAMERAS AND AERIAL CABLE SHALL BE INCLUDED IN THE COST OF "REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT".

MATCHLINE SEE SHEET 83



MAINTAIN EXISTING UNDERGROUND CONDUIT AND CABLE AND RECONNECT WITH TEMPORARY WIRE SPLICE WHEN POSSIBLE PER STAGE (TYP.)

APPROXIMATE STAGE LIMIT LINES (TYP.)

CONSTRUCTION STAGE 6

CONSTRUCTION STAGE 5

CONSTRUCTION STAGE 4

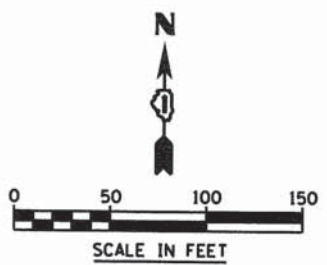
CONSTRUCTION STAGE 3

CONSTRUCTION STAGE 2

EXISTING LIGHTING CONTROLLER "B" (PROPOSED LOCATION) RELOCATION TO BE DONE IN STAGE 4 OF THE SUGGESTED PARKING LOT STAGING

EXISTING LIGHTING CONTROLLER "B" (EXISTING LOCATION) RECONNECT ALL EXISTING CIRCUITS IN STAGE 4 OF THE SUGGESTED PARKING LOT STAGING

EXISTING STREET LIGHTING CONTROLLER (PROPOSED LOCATION)



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CHECKED - MJR
DATE - 10-09-15

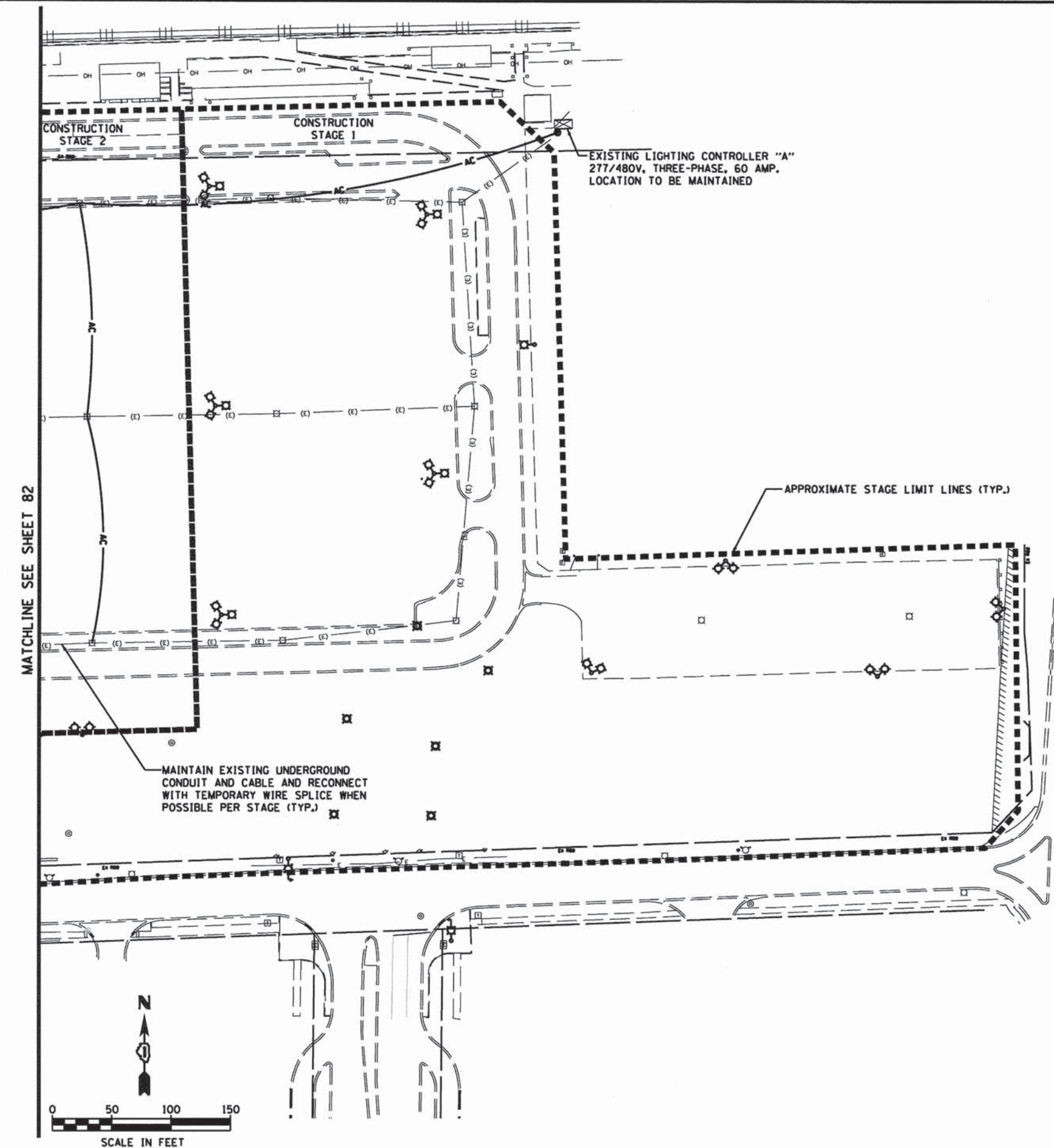
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED TEMPORARY LIGHTING PLAN

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	82
				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				



MATCHLINE SEE SHEET 82

ELECTRICAL SYMBOLS LEGEND

- ☒ EXISTING LIGHT POLE TO BE REMOVED PER THE PARKING LOT CONSTRUCTION STAGING.
- (E)— EXISTING UNDERGROUND ELECTRIC CABLE
- E— TEMPORARY LIGHTING CABLE & CONDUIT (SEE NOTE 5)
- A— AERIAL CABLE, 3-1/C NO. 4 AND 1-1/C NO. 4 WITH MESSENGER WIRE (SEE NOTE 5 BELOW)
- ⊕ TEMPORARY WOOD POLE (SEE NOTE 5 BELOW)
- ☒ EXISTING LIGHTING CONTROLLER AND FOUNDATION
- ☒ PROPOSED LIGHTING UNIT (SEE PROPOSED LIGHTING PLANS FOR DETAILS)

NOTES

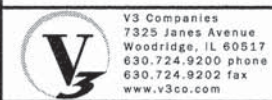
1. BRANCH CIRCUIT WIRING FOR THE EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED TO THE NEAREST LIGHTING EQUIPMENT TO REMAIN. REMOVE EXISTING WIRE.
2. ALL EXISTING EQUIPMENT TO BE REMOVED AND SALVAGED SHALL BE RETURNED TO THE CITY OF AURORA AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY THE DEMOLITION. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER.
4. WHERE THE CONTINUITY OF CIRCUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS. THE COST OF CONTINUITY OF THE CIRCUIT OR CONDUITS WILL BE INCIDENTAL TO "MODIFY EXISTING CONTROLLER" AND "CABINET AND MAINTAIN EXISTING LIGHTING CONTROLLER".
5. EXACT NUMBER AND SIZE OF WIRE REQUIRED TO BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. THE COST OF ANY WIRE OR MATERIALS REQUIRED TO MAINTAIN EXISTING LIGHTING SHALL BE INCLUDED IN THE COST OF "MAINTENANCE OF LIGHTING SYSTEM".
6. EXISTING POLE MOUNTED CAMERAS AND AERIAL CABLE SHALL BE MAINTAINED TO THE EXTENT POSSIBLE WITHIN ACTIVE PARKING AREAS. THE COST OF MAINTAINING EXISTING POLE MOUNTED CAMERAS AND AERIAL CABLE SHALL BE INCLUDED IN THE COST OF "REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT".

MAINTAIN EXISTING UNDERGROUND CONDUIT AND CABLE AND RECONNECT WITH TEMPORARY WIRE SPLICE WHEN POSSIBLE PER STAGE (TYP.)

APPROXIMATE STAGE LIMIT LINES (TYP.)



SCALE IN FEET



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PLOT SCALE = #SCALE#	DRAWN - JWB	REVISED -
PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

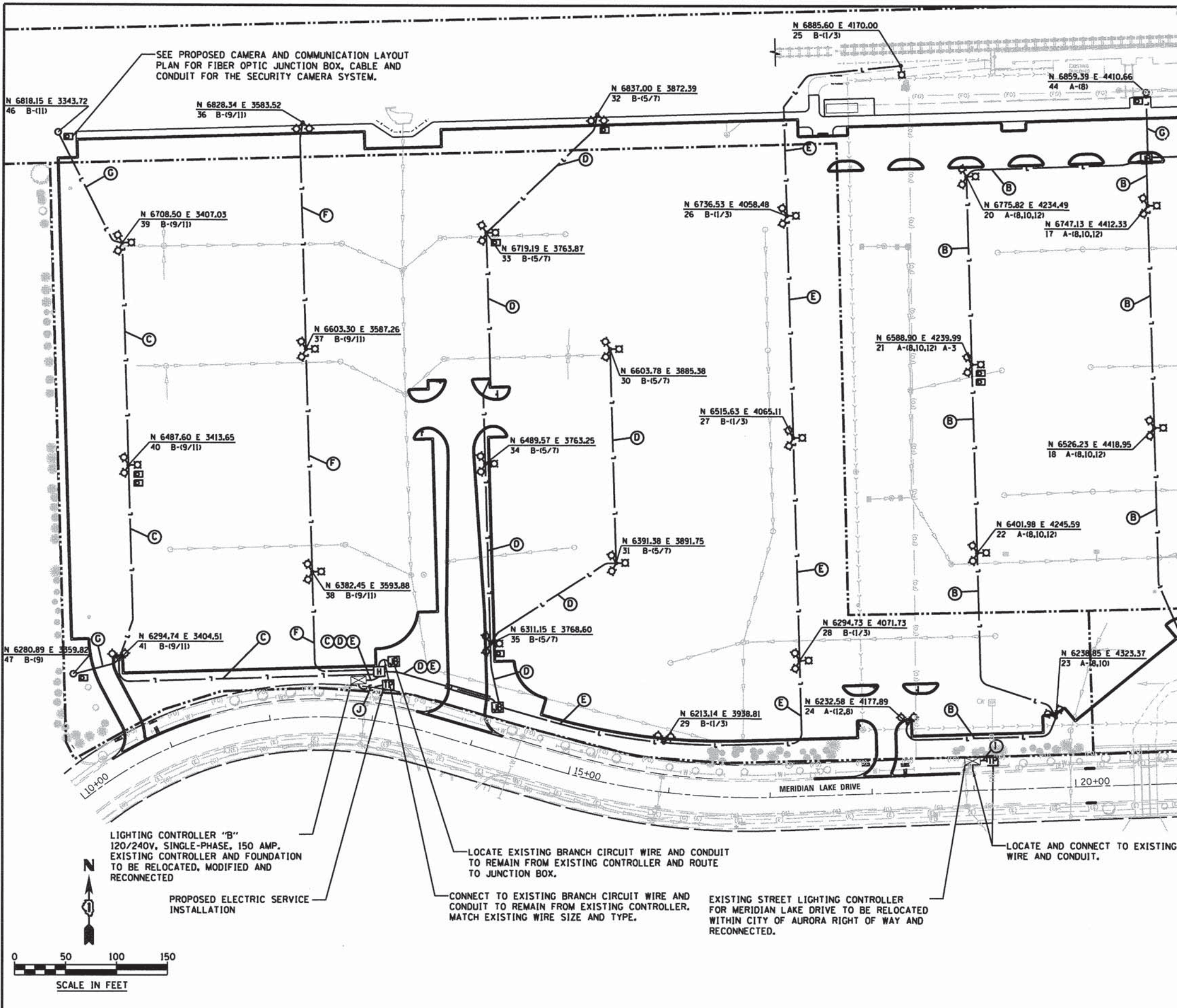
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED TEMPORARY LIGHTING PLAN

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	83
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

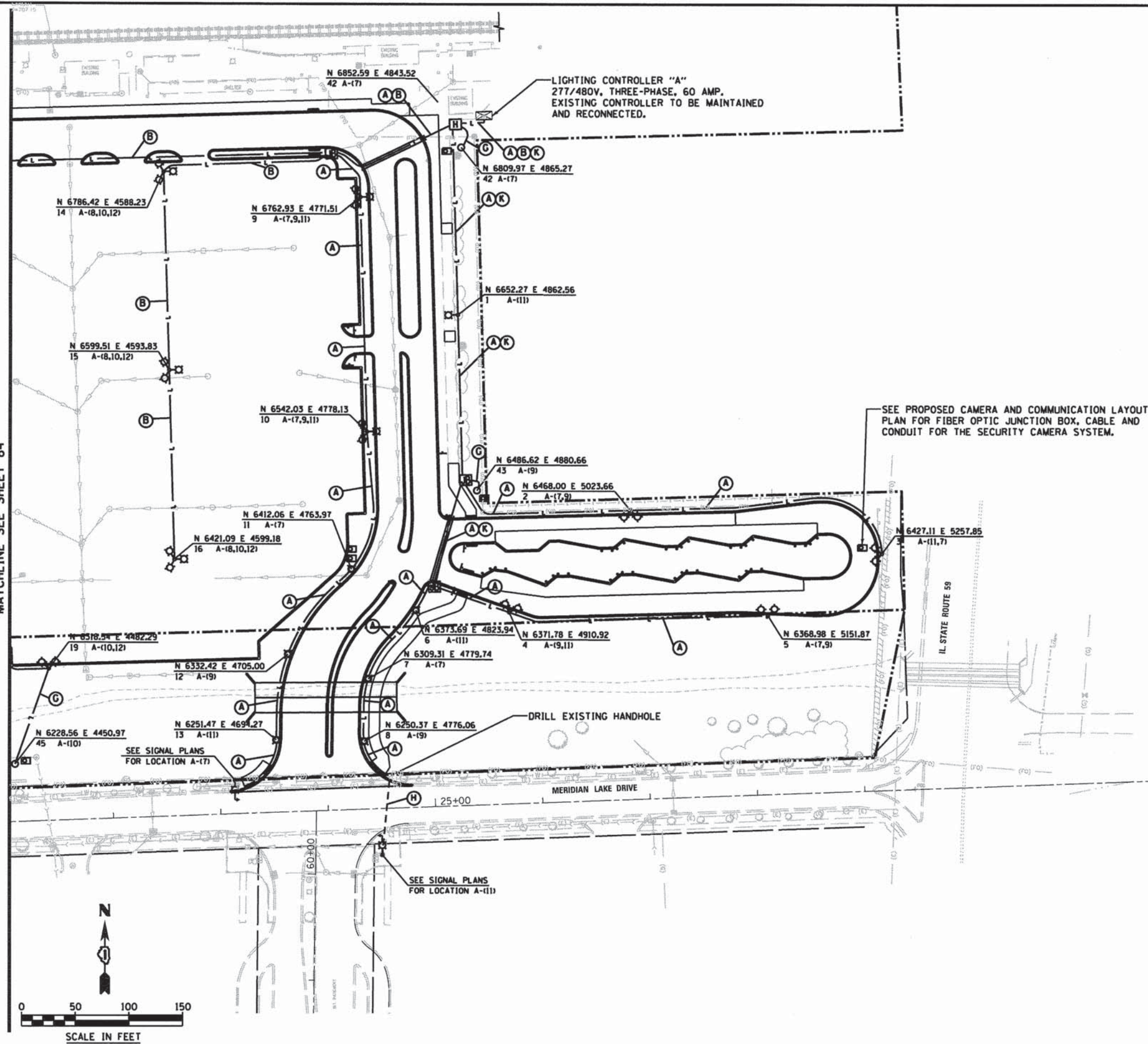


- POLE AND CIRCUIT DESIGNATION IDENTIFICATION**
- NORTHING
EASTING
N XXXX.XX E XXXX.XX
X X-(X,X)
FIXTURE CIRCUIT NO.(S)
FIXTURE CONTROLLER DESIGNATION
POLE NO.
- ELECTRICAL SYMBOLS LEGEND**
- PROPOSED PARKING LIGHTING UNIT, 39'-0" ALUM. POLE (42'-0" M.H.) 3 - LED LUMINAIRE AT 120 DEGREES, TYPE V, MULTI-VOLT (SEE SHEET 87 FOR LIGHT POLE DETAILS)
 - PROPOSED PARKING LIGHTING UNIT, 39'-0" ALUM. POLE (42'-0" M.H.) 2 - LED LUMINAIRE AT 90 DEGREES, TYPE IV, MULTI-VOLT (SEE SHEET 87 FOR LIGHT POLE DETAILS)
 - PROPOSED PARKING LIGHTING UNIT, 20'-0" ALUM. POLE (23'-0" M.H.) 1 - LED LUMINAIRE, TYPE III, MULTI-VOLT (SEE SHEET 87 FOR LIGHT POLE DETAILS)
 - PROPOSED STREET LIGHTING UNIT, DECORATIVE POLE&M.A. (40'-0" M.H.) 1 - LED LUMINAIRE, TYPE III, MULTI-VOLT, 30" CONC. FOUNDATION (SEE SHEETS 88 TO 91 FOR LIGHT POLE DETAILS)
 - PROPOSED STREET LIGHTING UNIT, COMBO MAST ARM DECORATIVE POLE 1 - LED LUMINAIRE, TYPE III, MULTI-VOLT (SEE SHEETS TRAFFIC SIGNAL PLANS FOR DETAILS)
 - PROPOSED CAMERA POLE (SEE SECURITY CAMERA AND COMM. LAYOUT PLAN FOR DETAILS)
 - PROPOSED CAMERA (SEE SECURITY CAMERA AND COMM. LAYOUT PLAN FOR DETAILS)
 - PROPOSED HANDHOLE
 - PROPOSED GULFBOX JUNCTION, COMPOSITE CONCRETE
 - PROPOSED CONDUIT AND WIRE (SEE TABLE BELOW)
 - PROPOSED WIRE IN EXISTING CONDUIT (SEE TABLE BELOW)
 - PROPOSED RIGID GALVANIZED STEEL CONDUIT SLEEVE, 3" DIA.

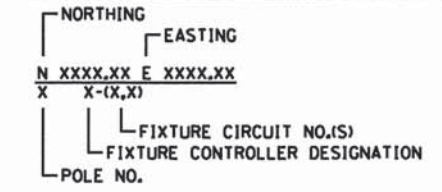
- CONDUIT AND WIRE TABLE**
- (A) UNIT DUCT, 4-1/2" #10 & 1/2" #10 GND WIRE, 600 VOLT (XLP-TYPE USE), 1" DIA POLYETHYLENE
 - (B) UNIT DUCT, 4-1/2" #6 & 1/2" #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
 - (C) UNIT DUCT, 3-1/2" #6 & 1/2" #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
 - (D) UNIT DUCT, 2-1/2" #4 & 1/2" #4 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
 - (E) UNIT DUCT, 2-1/2" #2 & 1/2" #2 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
 - (F) UNIT DUCT, 2-1/2" #6 & 1/2" #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1" DIA POLYETHYLENE
 - (G) UNIT DUCT, 2-1/2" #10 & 1/2" #10 GND WIRE, 600 VOLT (XLP-TYPE USE), 3/4" DIA POLYETHYLENE
 - (H) 4-1/2" #10 & 1/2" #10 GND WIRE, 600 VOLT (XLP-TYPE USE) IN EXISTING CONDUIT
 - (I) 4-1/2" #4 WIRE FOR SERVICE, 600 VOLT (XLP-TYPE USE) IN 1 1/4" DIA U.G. CONDUIT, PVC
 - (J) 3-1/2" 2/0 WIRE FOR SERVICE, 600 VOLT (XLP-TYPE USE) IN 2" DIA U.G. CONDUIT, PVC
 - (K) 3" DIA U.G. CONDUIT, PVC (NO WIRE, WITH PULL ROPE)

- NOTES**
- SEE SHEET 87 FOR LIGHTING AND ELECTRICAL GENERAL NOTES AND SHEET 82 FOR LIGHTING REMOVAL GENERAL NOTES.
 - LIGHT POLES PROPOSED IN PAVEMENT SHALL BE CENTERED ON PAVEMENT MARKING FOR PARKING SPACES.
 - LIGHTING CONTROLLER "B" SHALL BE RELOCATED IN STAGE 4 OF THE THE PARKING LOT STAGING.

MATCHLINE SEE SHEET 84



POLE AND CIRCUIT DESIGNATION IDENTIFICATION



ELECTRICAL SYMBOLS LEGEND

- PROPOSED PARKING LIGHTING UNIT, 39'-0" ALUM. POLE (42'-0" M.H.) 3 - LED LUMINAIRE AT 120 DEGREES, TYPE V, MULTI-VOLT (SEE SHEET 87 FOR LIGHT POLE DETAILS)
- PROPOSED PARKING LIGHTING UNIT, 39'-0" ALUM. POLE (42'-0" M.H.) 2 - LED LUMINAIRE AT 90 DEGREES, TYPE IV, MULTI-VOLT (SEE SHEET 87 FOR LIGHT POLE DETAILS)
- PROPOSED PARKING LIGHTING UNIT, 20'-0" ALUM. POLE (23'-0" M.H.) 1 - LED LUMINAIRE, TYPE III, MULTI-VOLT (SEE SHEET 87 FOR LIGHT POLE DETAILS)
- PROPOSED STREET LIGHTING UNIT, DECORATIVE POLE&M.A. (40'-0" M.H.) 1 - LED LUMINAIRE, TYPE III, MULTI-VOLT, 30" CONC. FOUNDATION (SEE SHEETS 88 TO 91 FOR LIGHT POLE DETAILS)
- PROPOSED STREET LIGHTING UNIT, COMBO MAST ARM DECORATIVE POLE 1 - LED LUMINAIRE, TYPE III, MULTI-VOLT (SEE SHEETS TRAFFIC SIGNAL PLANS FOR DETAILS)
- PROPOSED CAMERA POLE (SEE SECURITY CAMERA AND COMM. LAYOUT PLAN FOR DETAILS)
- PROPOSED CAMERA (SEE SECURITY CAMERA AND COMM. LAYOUT PLAN FOR DETAILS)
- PROPOSED HANDHOLE
- PROPOSED GULFBOX JUNCTION, COMPOSITE CONCRETE
- PROPOSED CONDUIT AND WIRE (SEE TABLE BELOW)
- PROPOSED WIRE IN EXISTING CONDUIT (SEE TABLE BELOW)
- PROPOSED RIGID GALVANIZED STEEL CONDUIT SLEEVE, 3" DIA.

CONDUIT AND WIRE TABLE

- (A) UNIT DUCT, 4-1/2" #10 & 1/2" #10 GND WIRE, 600 VOLT (XLP-TYPE USE), 1" DIA POLYETHYLENE
- (B) UNIT DUCT, 4-1/2" #6 & 1/2" #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (C) UNIT DUCT, 3-1/2" #6 & 1/2" #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (D) UNIT DUCT, 2-1/2" #4 & 1/2" #4 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (E) UNIT DUCT, 2-1/2" #2 & 1/2" #2 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (F) UNIT DUCT, 2-1/2" #6 & 1/2" #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1" DIA POLYETHYLENE
- (G) UNIT DUCT, 2-1/2" #10 & 1/2" #10 GND WIRE, 600 VOLT (XLP-TYPE USE), 3/4" DIA POLYETHYLENE
- (H) 4-1/2" #10 & 1/2" #10 GND WIRE, 600 VOLT (XLP-TYPE USE) IN EXISTING CONDUIT
- (I) 4-1/2" #4 WIRE FOR SERVICE, 600 VOLT (XLP-TYPE USE) IN 1 1/4" DIA U.G. CONDUIT, PVC
- (J) 3-1/2" 2/0 WIRE FOR SERVICE, 600 VOLT (XLP-TYPE USE) IN 2" DIA U.G. CONDUIT, PVC
- (K) 3" DIA U.G. CONDUIT, PVC (NO WIRE, WITH PULL ROPE)

NOTES

1. SEE SHEET 87 FOR LIGHTING AND ELECTRICAL GENERAL NOTES AND SHEET 82 FOR LIGHTING REMOVAL GENERAL NOTES.
2. LIGHT POLES PROPOSED IN PAVEMENT SHALL BE CENTERED ON PAVEMENT MARKING FOR PARKING SPACES.
3. LIGHTING CONTROLLER "B" SHALL BE RELOCATED IN STAGE 4 OF THE THE PARKING LOT STAGING.



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USER NAME = bhert	DESIGNED - JWB	REVISED -
PLOT SCALE = 1/80'	DRAWN - JWB	REVISED -
PLOT DATE = 10/16/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

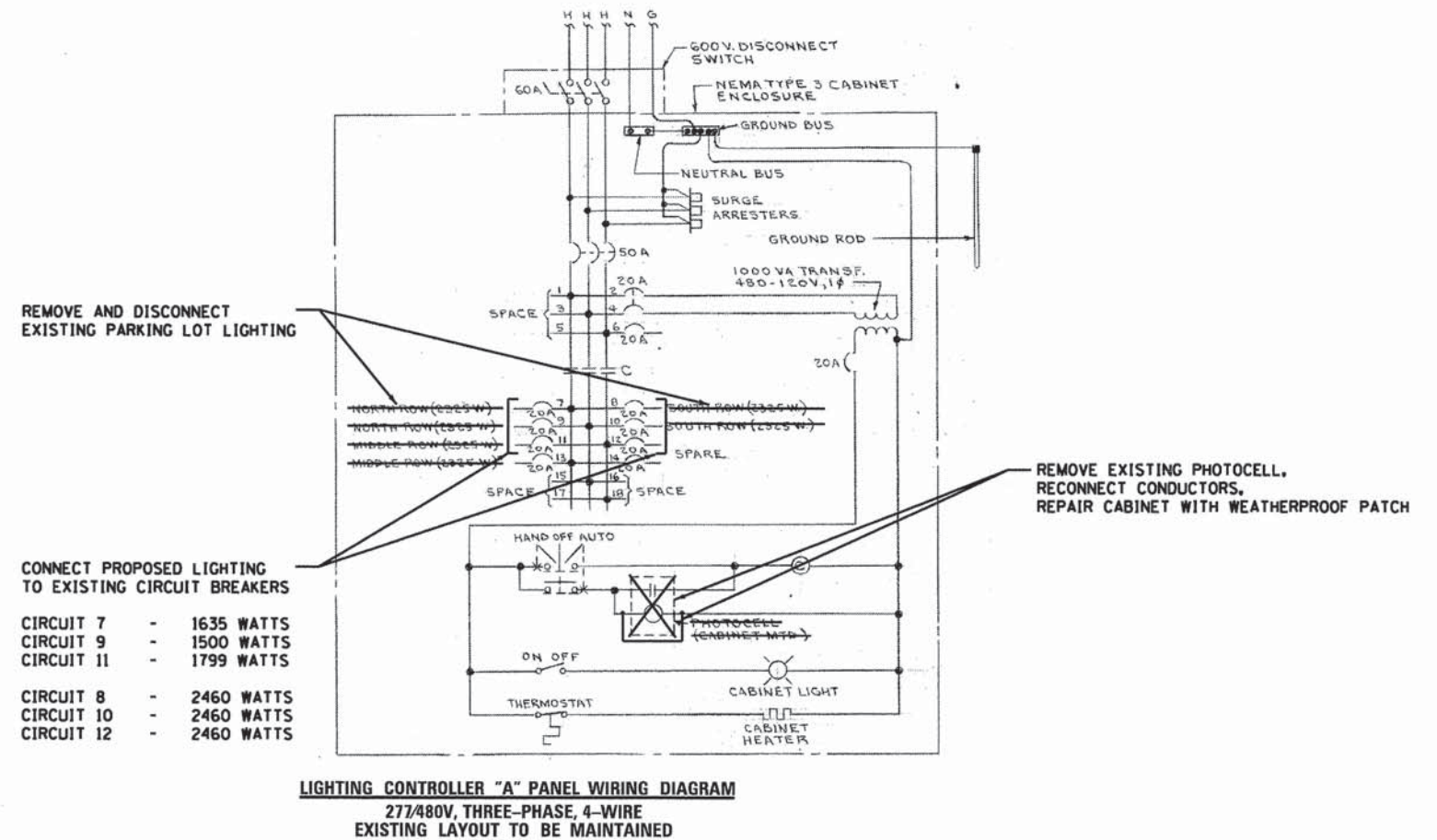
LIGHTING PLAN

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	85
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

LIGHTING AND ELECTRICAL GENERAL NOTES

1. LOCATION OF LIGHTING CONDUIT, DUCT HANDHOLES AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION BY THE ENGINEER. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED BY THE ENGINEER PRIOR TO STARTING WORK.
3. PRIOR TO INSTALLATION OF THE NEW UNIT DUCT, CONDUITS, JUNCTION BOXES, LIGHT STANDARD FOUNDATION AND APPURTENANCES, THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLE AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO AID IN THIS TASK.
4. NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
5. ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE.
6. GROUNDING OF POLE AND CONTROLLER INCLUDING GROUND ROD, CONDUCTOR AND LUGS INCLUDING EXOTHERMIC WELD TO GROUND ROD SHALL BE INCIDENTAL TO THE COST OF THE PAY ITEM FOR WHICH IT IS INSTALLED.
7. THE NEW ELECTRICAL INSTALLATION AND MATERIALS MUST MEET REQUIREMENTS OF STANDARDS BY THE FOLLOWING ORGANIZATIONS:
 - ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
 - NATIONAL ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
 - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IES)
 - AMERICAN ASSOCIATION OF TRANSPORTATION OFFICIALS (AATO)
 - U.S. DEPARTMENT OF TRANSPORTATION (USDOT)
 - UNDERWRITERS LABORATORIES (UL)
 - AMERICAN STANDARD INSTITUTE (ASI)
 - INSULATED POWER AND CABLE ENGINEERS ASSOCIATION (IPCEA)
 - NATIONAL ELECTRICAL SAFETY CODE (NEC)
 - NATIONAL ELECTRICAL CODE 2011
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
 - AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IESNA RP-8)
8. ALL SPLICING MUST BE IN POLE BASES OR JUNCTION BOXES WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS.
9. PARALLEL ELECTRICAL CONDUIT RUNS SHALL BE PLACED IN A COMMON TRENCH WHERE POSSIBLE.
10. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH ELECTRICAL HANDHOLE THEY PASS THROUGH AS WELL AS EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT. BOXES SHALL BE EQUIPPED FOR THE GROUNDING WIRE TERMINATIONS WITHOUT DEGRADATION OF BOX RATING.
11. ELECTRICAL SERVICE SHALL BE 277/480 VOLT THREE-PHASE OR 120/240 VOLT SINGLE-PHASE AS NOTED IN THE PLANS.
12. INSTALL CABLE IN CONTINUOUS UN-CUT LENGTHS BETWEEN HANDHOLES, JUNCTION BOXES AND LIGHT POLES.
13. ALL UNIT DUCT RUNS SHALL INCLUDE A TRACER WIRE FOR LOCATING. THE COST OF THE TRACE WIRE SHALL BE INCIDENTAL TO THE COST OF THE UNIT DUCT.
14. HANDHOLE COVER ON LIGHT POLES SHALL HAVE STEEL/STAINLESS SCREWS. NO NYLON SCREWS ALLOWED.



- REMOVE AND DISCONNECT EXISTING PARKING LOT LIGHTING
- CONNECT PROPOSED LIGHTING TO EXISTING CIRCUIT BREAKERS
- CIRCUIT 7 - 1635 WATTS
 - CIRCUIT 9 - 1500 WATTS
 - CIRCUIT 11 - 1799 WATTS
 - CIRCUIT 8 - 2460 WATTS
 - CIRCUIT 10 - 2460 WATTS
 - CIRCUIT 12 - 2460 WATTS

LOAD TABLE
 LIGHTING CONTROLLER "B"
 120/240V, 1 PH, 3 WIRE

CIRCUIT	CIRCUIT BREAKER	DESCRIPTION	PHASE		DESCRIPTION	CIRCUIT BREAKER	CIRCUIT
			A	B			
1	30 A	PARKING LOT LIGHTS	1,435	200*	LIGHT CONTROL	20 A	2
3					TICKET BOOTH LIGHT	20 A	4
5	30 A	PARKING LOT LIGHTS	2,091	600*	HEATER	20 A	6
7					WELL	20 A	8
9	30 A	PARKING LOT LIGHTS	1,968	200*	UNKNOWN	20 A	10
11					UNKNOWN	20 A	12
13	20 A	TICKET MACHINE	500*	200*			14
15	20 A	TICKET MACHINE		500*, 1,000*			16
17	20 A	UNKNOWN	1,000*				18
19	SPACE						20
21	150 A	MAIN					
23		MAIN					
			8,194	9,294			

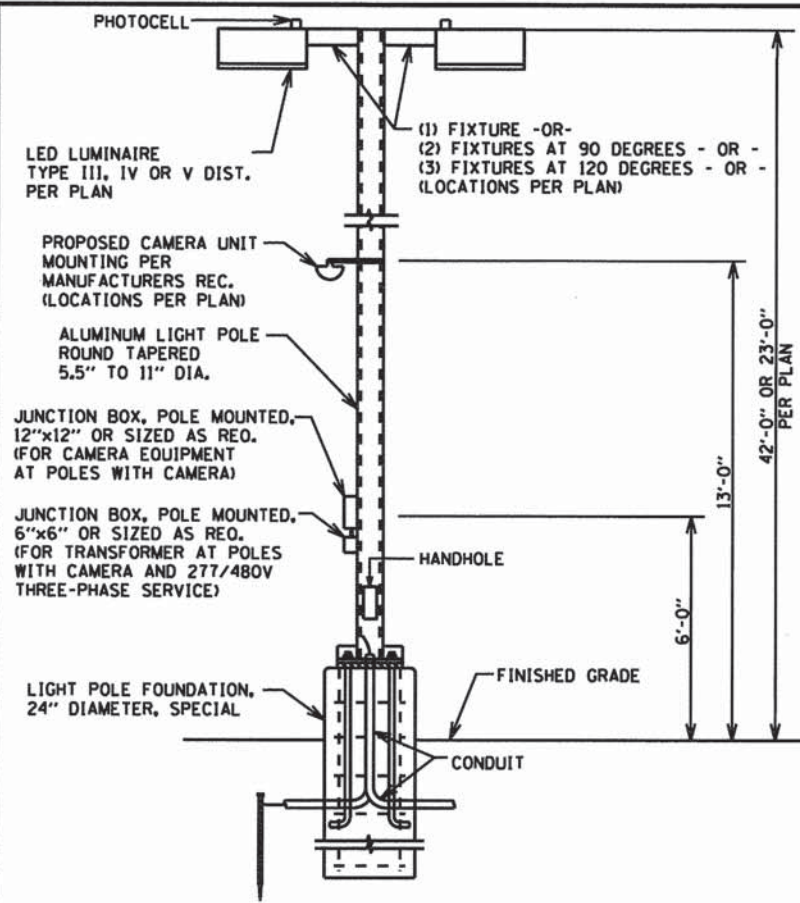
TOTAL CONNECT LOAD: 17,488 VOLT-AMPS
 TOTAL CONNECT LOAD: 73 AMPS

* ESTIMATED LOADS

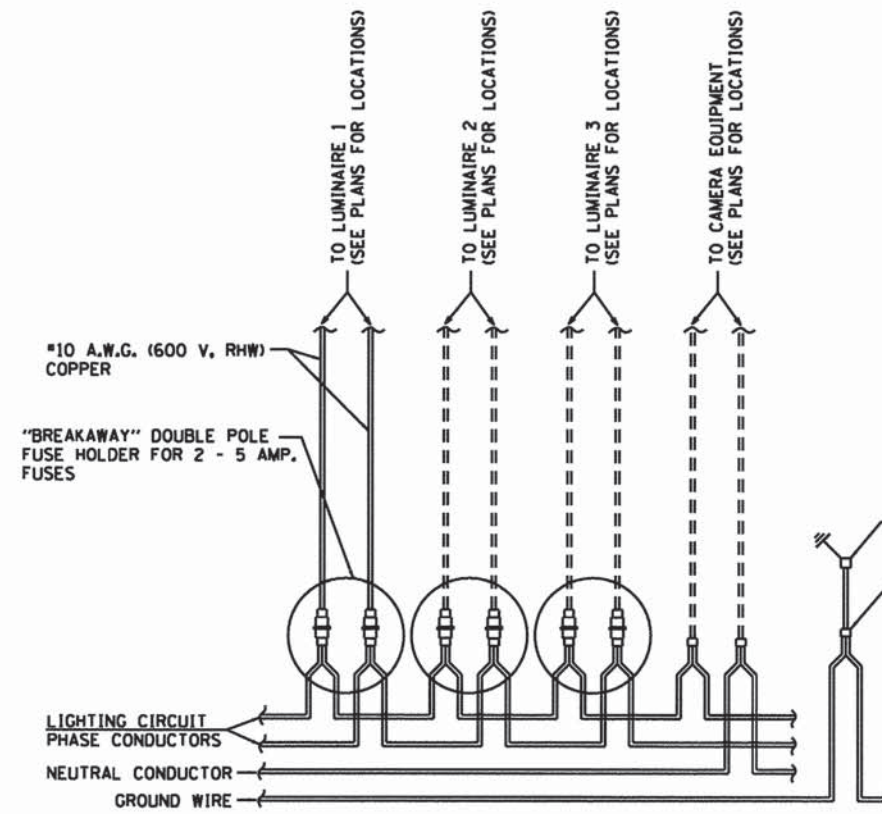
PANEL EQUIPMENT MODIFICATIONS BILL OF MATERIALS

ITEM	QUANTITY	DESCRIPTION
(A)	1	MAIN CIRCUIT BREAKER, 2-POLE, 600 VOLT, 150 AMP., NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-20,000 AMP AT 240 VOLT.
(B)	3	CIRCUIT BREAKER, 2-POLE, 30 AMP AT 240V.
(C)	3	1/C #2/0 WIRE (XLP-TYPE USE) 600 VOLT

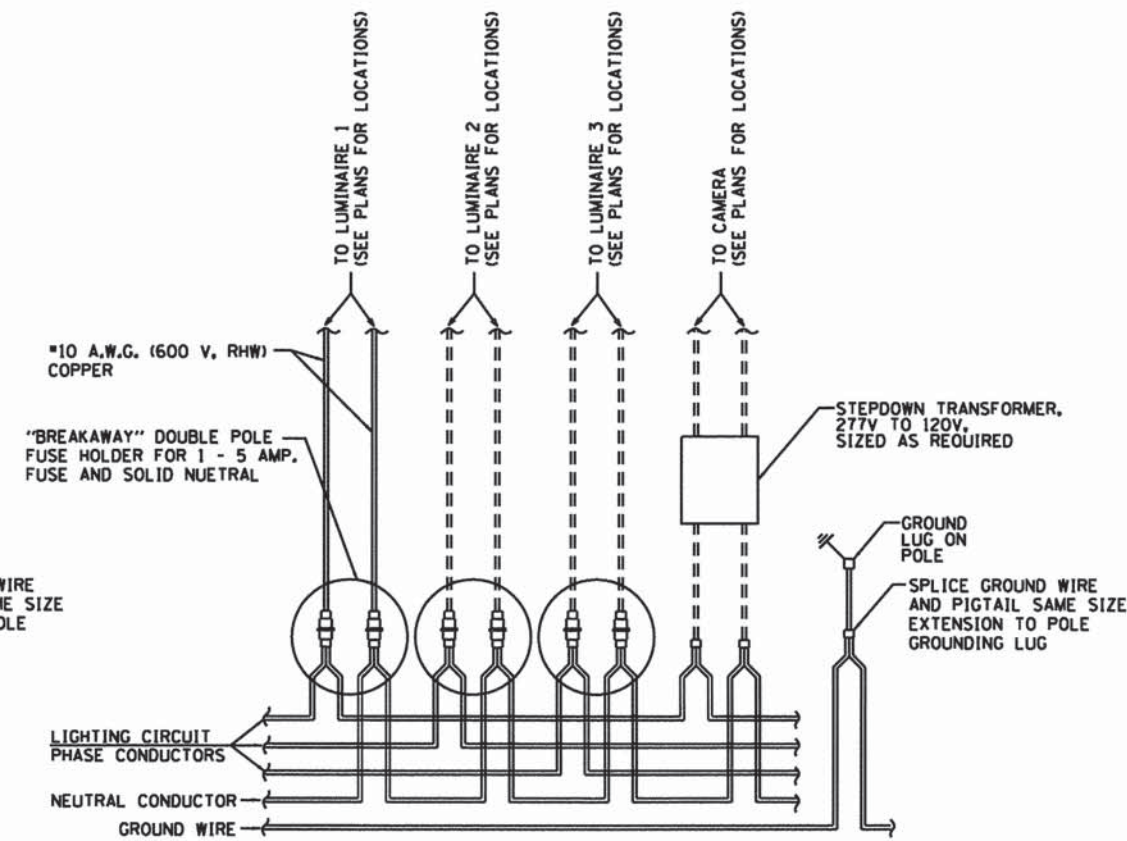
LIGHTING CONTROLLER "B" PANEL SUMMARY
 120/240V, SINGLE-PHASE, 3-WIRE
 EXISTING LAYOUT TO BE MODIFIED



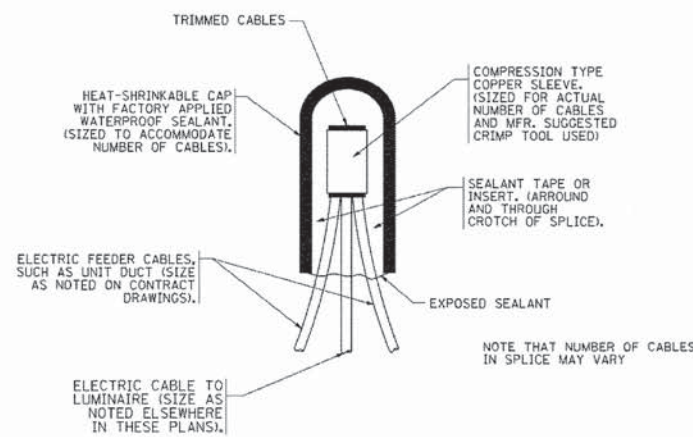
CAMERA & PARKING LIGHTING UNIT DETAIL



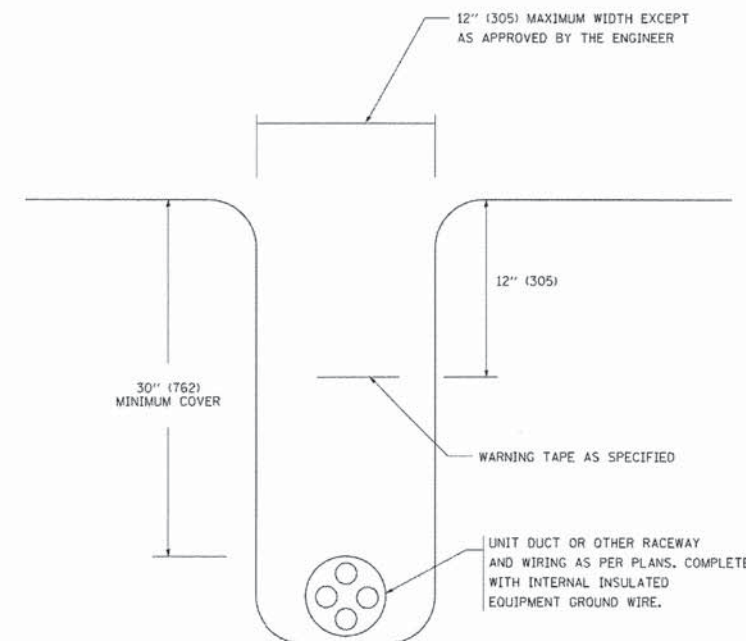
**TYPICAL POLE ELECTRICAL WIRING DETAIL
(120/240V, SINGLE-PHASE LIGHTING SERVICE)**



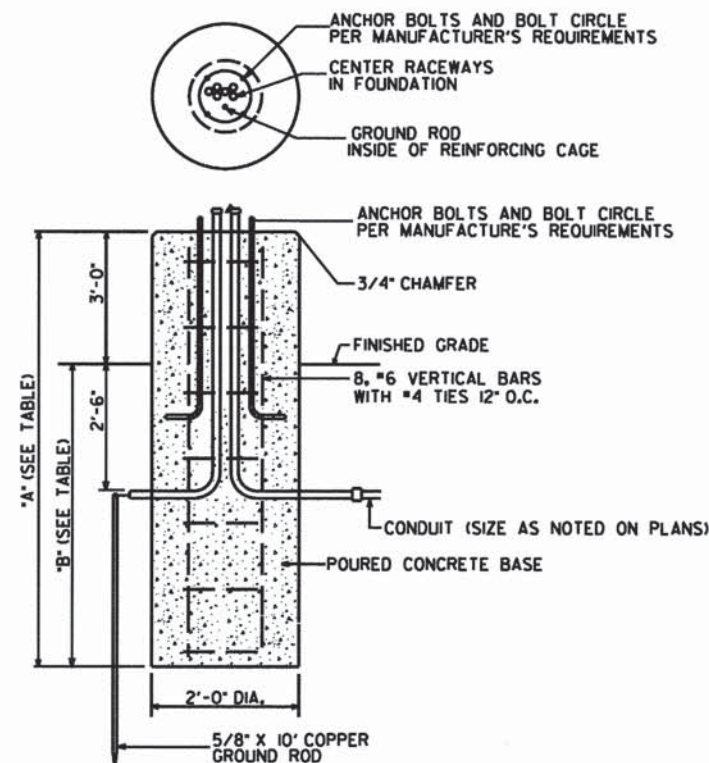
**TYPICAL POLE ELECTRICAL WIRING DETAIL
(277/480V, THREE-PHASE LIGHTING SERVICE)**



TYPICAL SPLICE DETAIL



TYPICAL WIRING IN TRENCH DETAIL

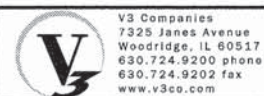


POLE FOUNDATION, 24\"/>

FOUNDATION NOTES:

- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4" ABOVE THE FINISHED GRADE WITHIN A 60" CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4".
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.J3 BEFORE LIGHT POLES ARE INSTALLED.
- THE CABLE TRENCHES AND THE FOUNDATION SHALL BE BACKFILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
- AN EXOTHERMIC WELD CONNECTION SHALL BE USED TO ATTACH GROUND WIRE TO GROUND ROD INSTALLED.

POLE MOUNTING HEIGHT	FOUNDATION LENGTH "A"	FOUNDATION BURIED "B"
23'-0"	9'-0"	6'-0"
42'-0"	12'-0"	9'-0"



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = #USER#	DESIGNED - JWB	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JWB	REVISED -
PLOT DATE = 10/9/2015	CHECKED - MJR	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING AND ELECTRICAL DETAILS

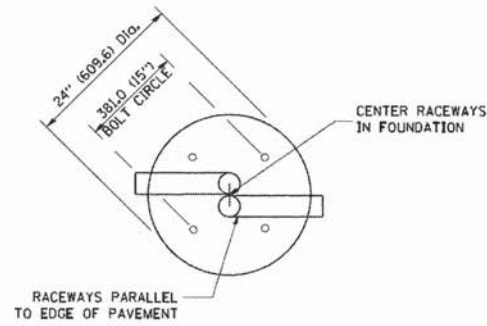
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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	87
CONTRACT NO. 61B33				

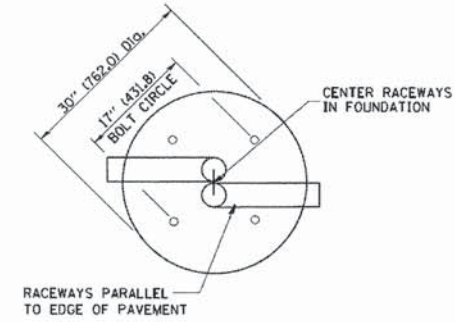
ILLINOIS FED. AID PROJECT

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

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



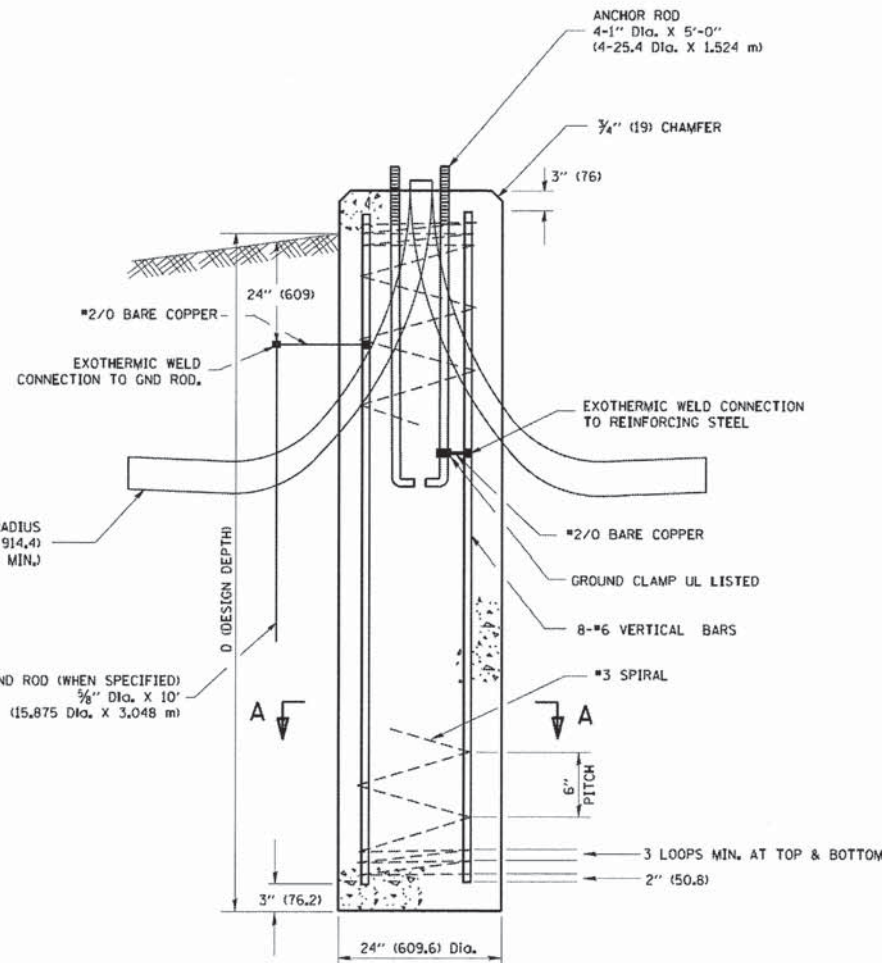
TOP VIEW



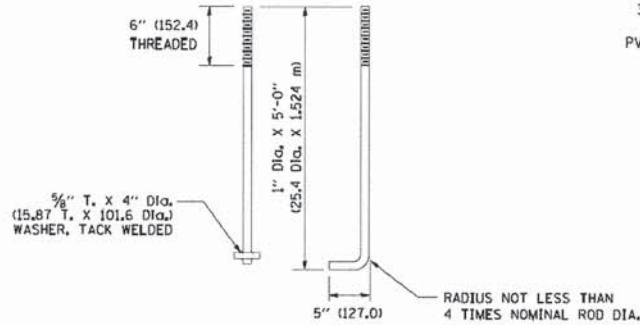
TOP VIEW

NOTES

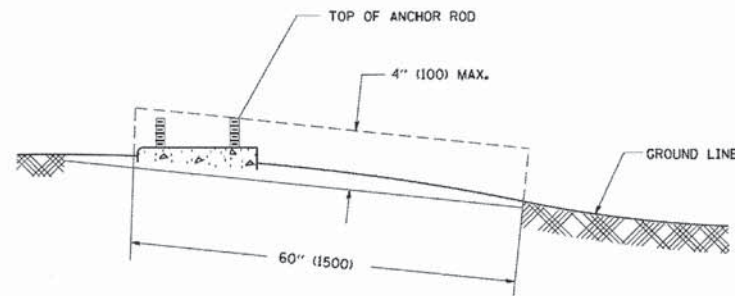
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION,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



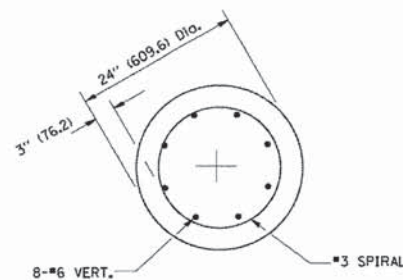
FOUNDATION DETAIL



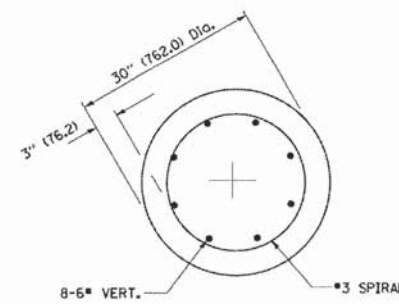
ANCHOR ROD DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

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USER NAME = goglianob

DESIGNED -

REVISED - 04-22-02

PLOT SCALE = 50.0000' / IN.

DRAWN -

REVISED -

PLOT DATE = 1/4/2008

CHECKED -

REVISED -

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

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

SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

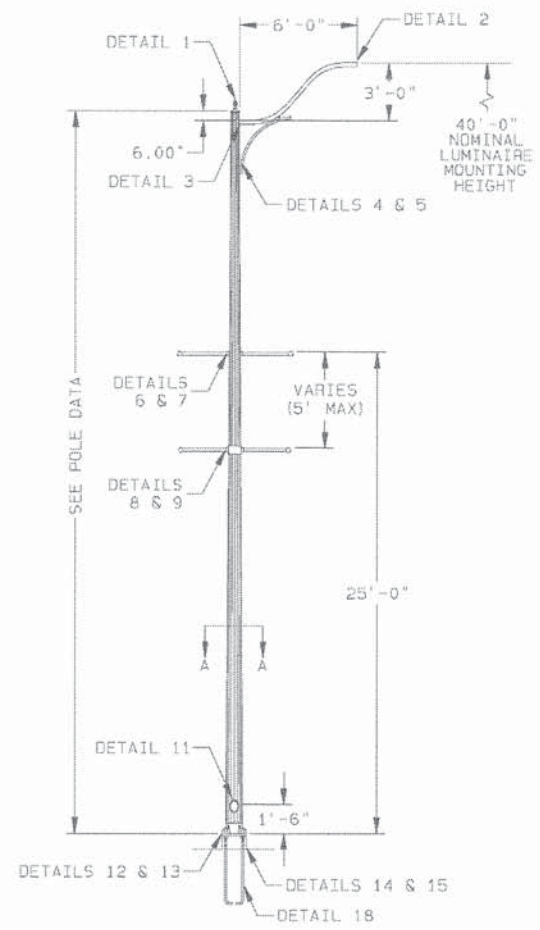
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F.A. SECTION COUNTY TOTAL SHEET SHEET NO.

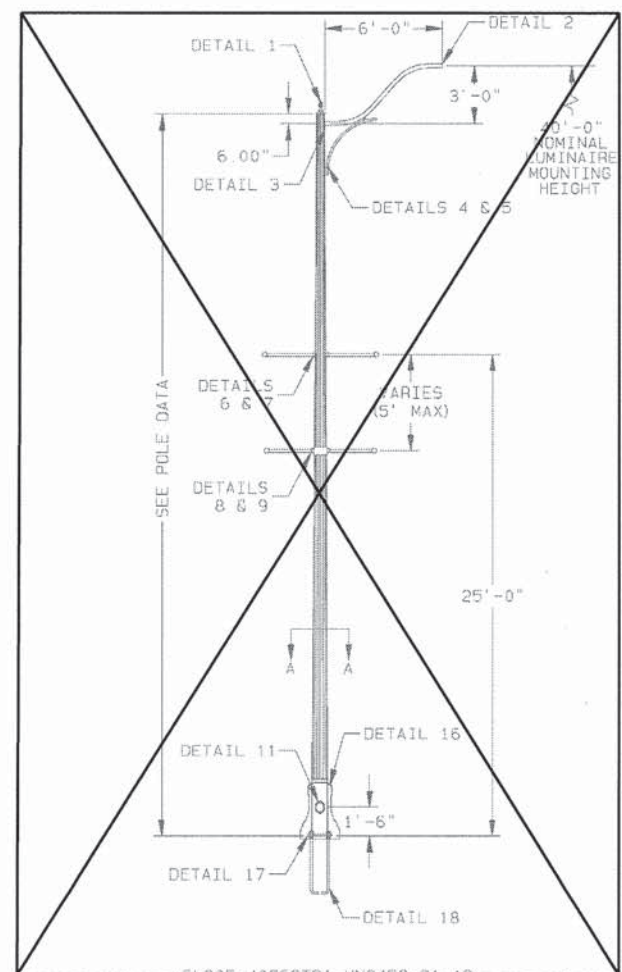
13-00300-00-PK DuPage 107 88

BE-301 CONTRACT NO. 61B33

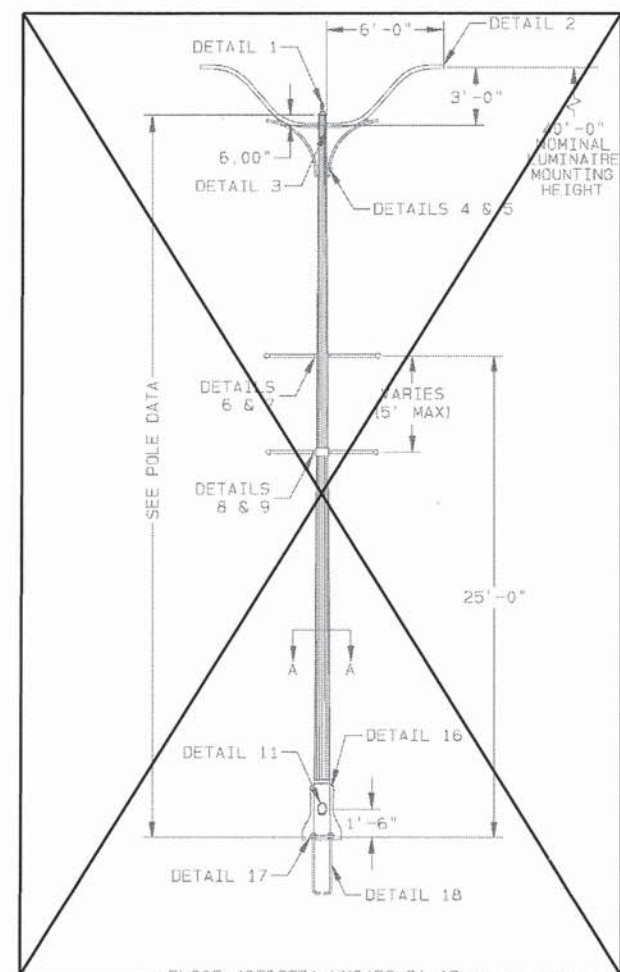
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



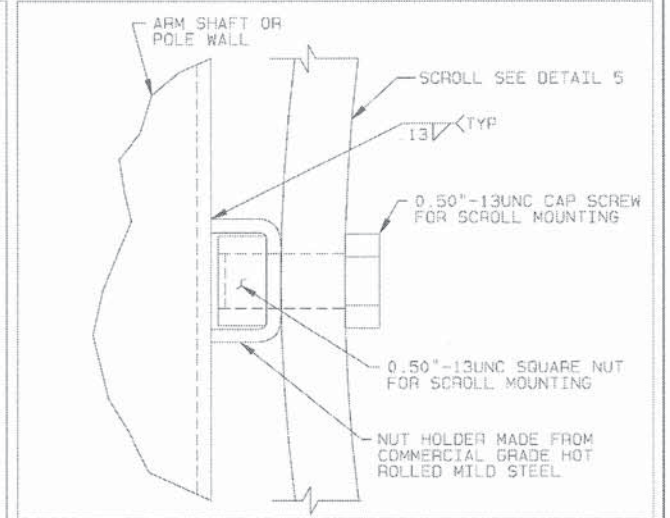
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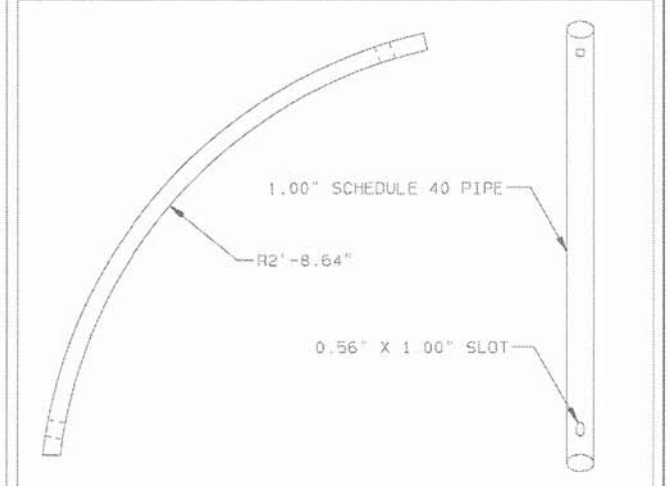
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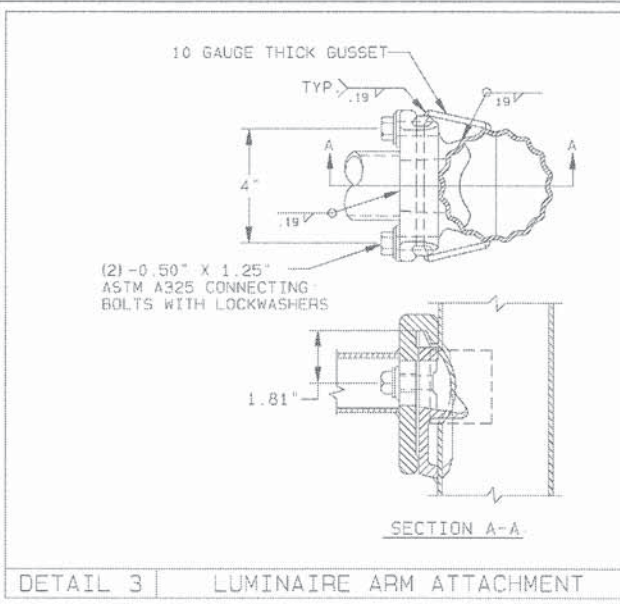
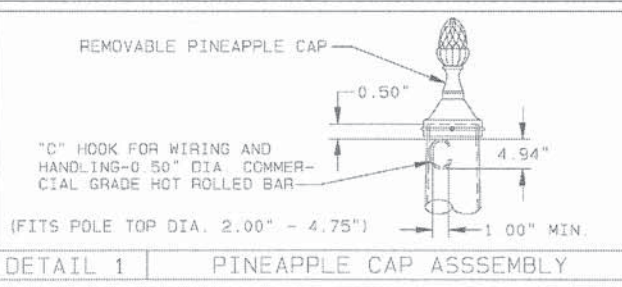
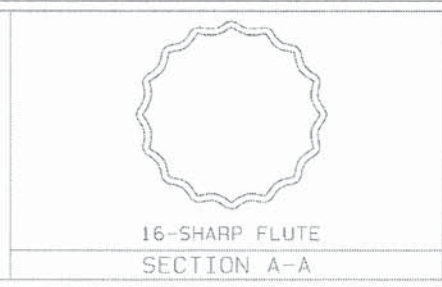


DETAIL 4 | SCROLL ATTACHMENT

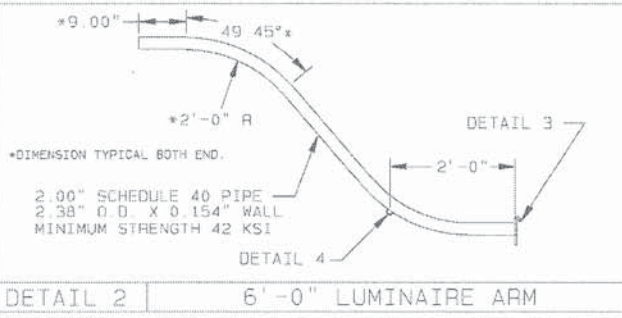
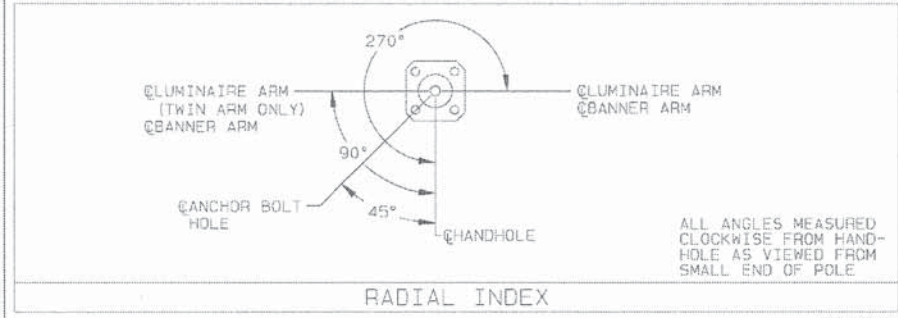


DETAIL 5 | SCROLL ARM

FINISH DATA
 BASE COAT: HOT DIPPED GALVANIZE TO ASTM: A123
 PRIME COAT: NEW HIGH BUILD EPOXY POWDER
 FINISH COAT: TGIC OR SUPER DURABLE POLYESTER POWDER
 COLOR: AURORA BLACK
 VALMONT SPEC. F-573A (5 YEAR WARRANTY SPEC.)



- NOTES:**
1. ANTI SEIZE FOR HANDHOLE COVER SCREWS PROVIDED BY CONTRACTOR DURING INSTALLATION.
 2. ALL ORIENTATIONS MUST BE VERIFIED PRIOR TO RELEASE FOR PRODUCTION.
 3. OPTIONAL BANNER ARM PLUGS WITH WELDED FLAT PLATE CAN BE PROVIDED (DETAIL 19).
 4. OPTIONAL BLANK BACK HALF CLAMP CAN BE PROVIDED IF A SINGLE BANNER ARM IS USED (DETAIL 20).



TITLE CITY OF AURORA LIGHTING STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.



PAGE NUMBER: 4 OF 6
 DRAWING NUMBER: DB00873
 REV: E



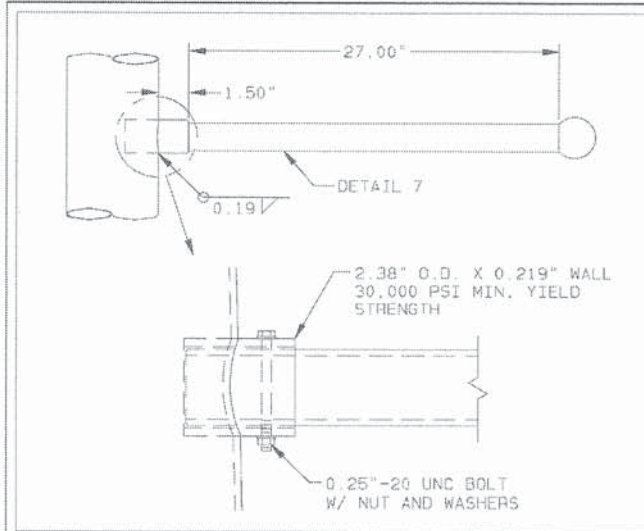
V3 Companies
 7325 Janes Avenue
 Woodridge, IL 60517
 630.724.9200 phone
 630.724.9202 fax
 www.v3co.com

USER NAME: bhort
 DESIGNED - JWB
 DRAWN - JWB
 CHECKED - MJR
 DATE - 10-09-15

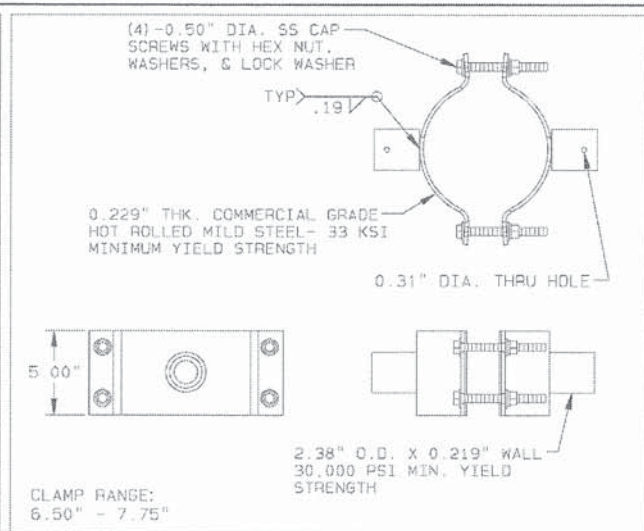
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 59 METRA STATION
 STREET LIGHT POLE AND LUMINAIRE ARM DETAIL
 SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

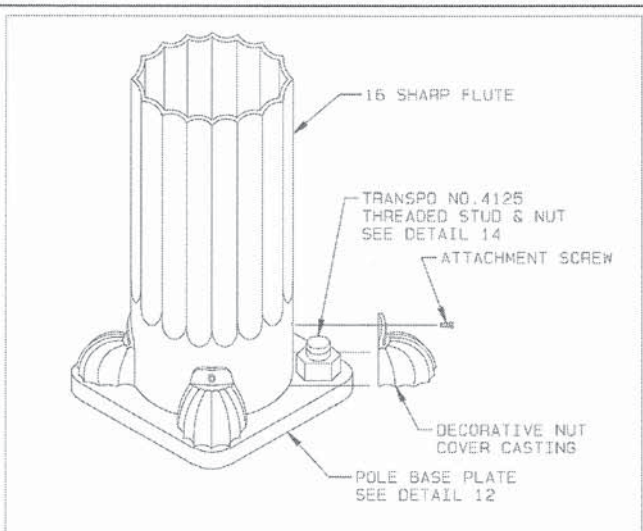
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CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



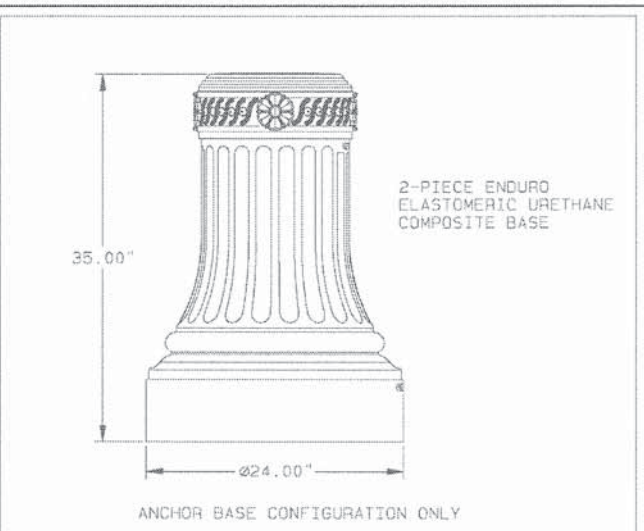
DETAIL 6 | BANNER ARM ATTACHMENT



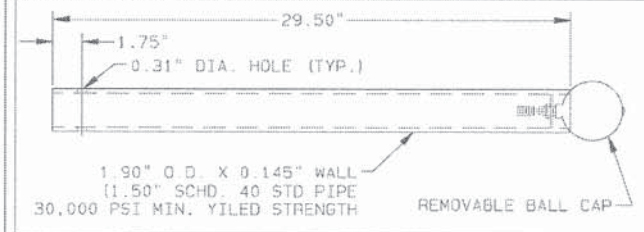
DETAIL 10 | BANNER ARM ATTACHMENT-CLAMP



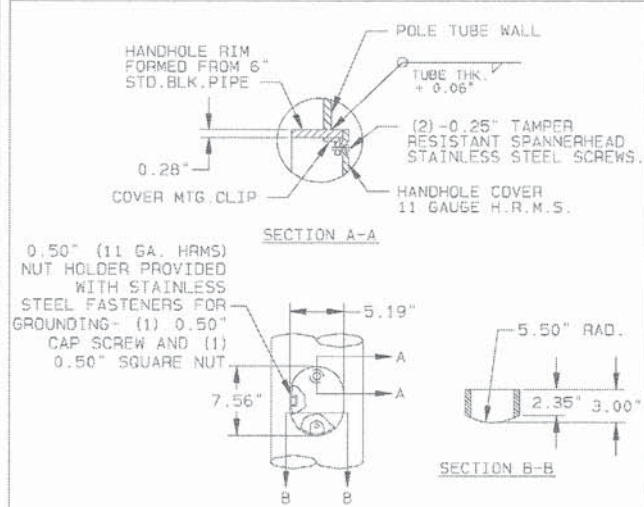
DETAIL 13 | DECORATIVE NUT COVER DETAIL



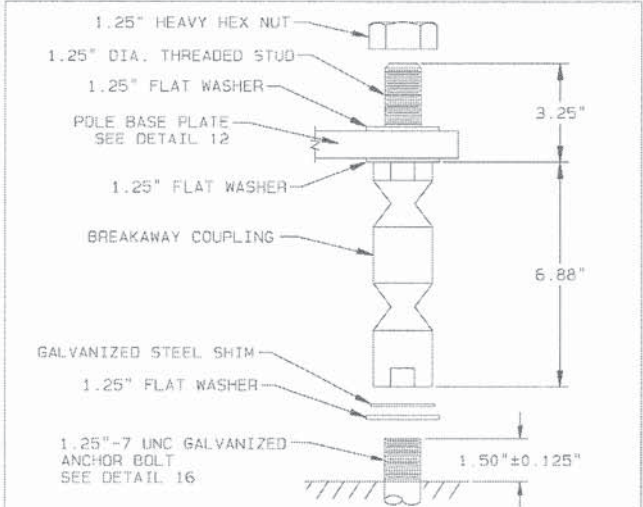
DETAIL 16 | HN24EC DECORATIVE BASE



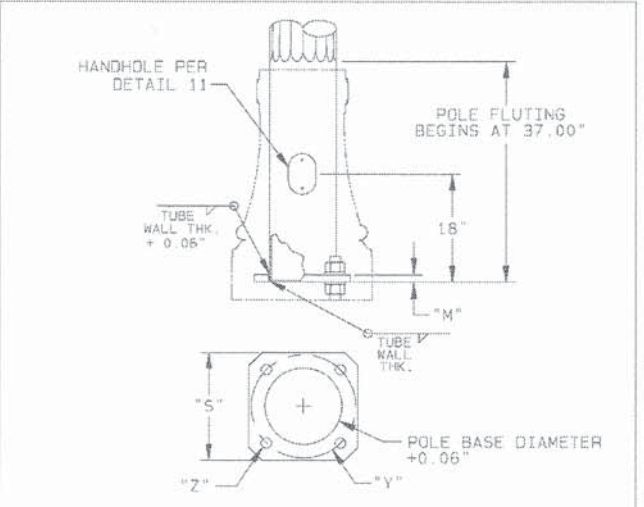
DETAIL 7 | FIXED BANNER ARM



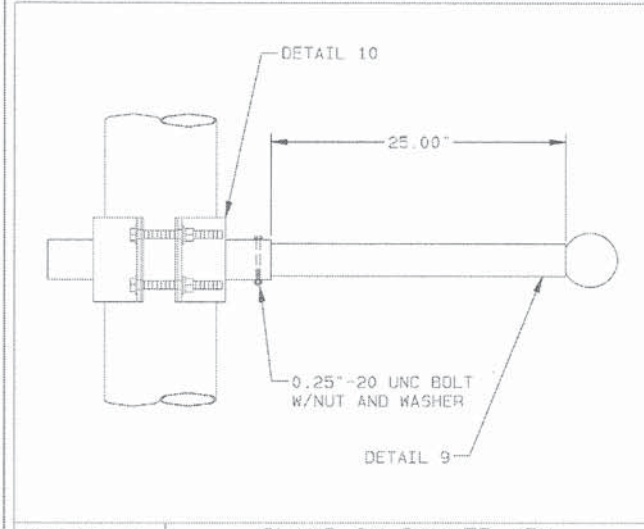
DETAIL 11 | SEMI-FLUSH HANDHOLE



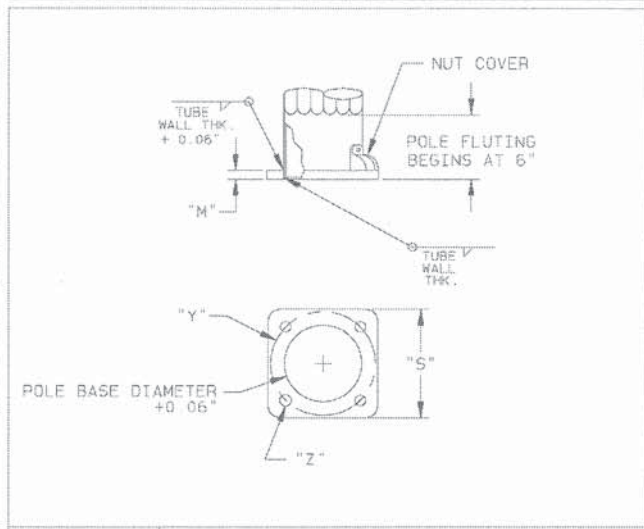
DETAIL 14 | TRANSPO NO. 4125 BREAKAWAY COUPLING



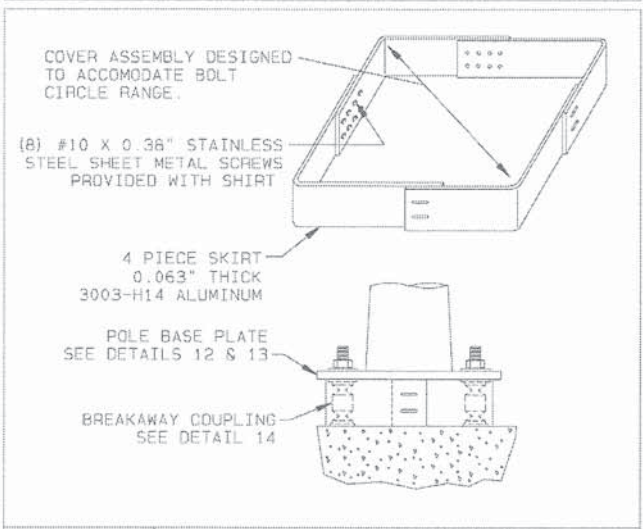
DETAIL 17 | HN24EC POLE BASE



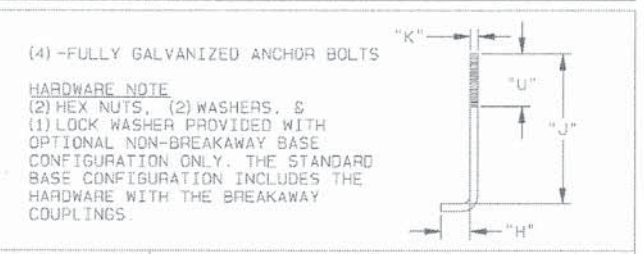
DETAIL 8 | CLAMP ON BANNER ARM



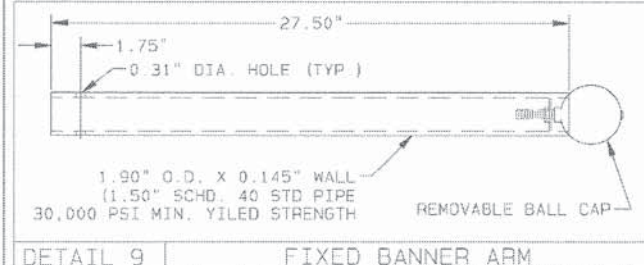
DETAIL 12 | POLE BASE



DETAIL 15 | BREAKAWAY COUPLING SKIRT



DETAIL 18 | ANCHOR BOLT



DETAIL 9 | FIXED BANNER ARM

TITLE
CITY OF AURORA
LIGHTING STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.



PAGE NUMBER: 5 OF 6
DRAWING NUMBER
DB00873 E



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PLOT DATE = 10/9/2015

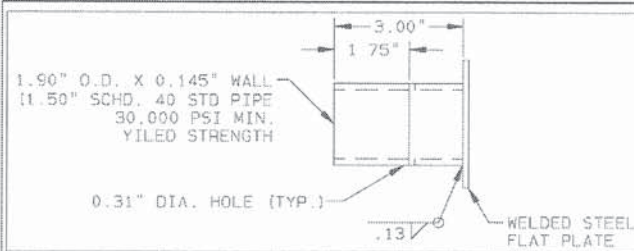
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DRAWN - JWB
CHECKED - MJR
DATE - 10-09-15

REVISED -
REVISED -
REVISED -
REVISED -

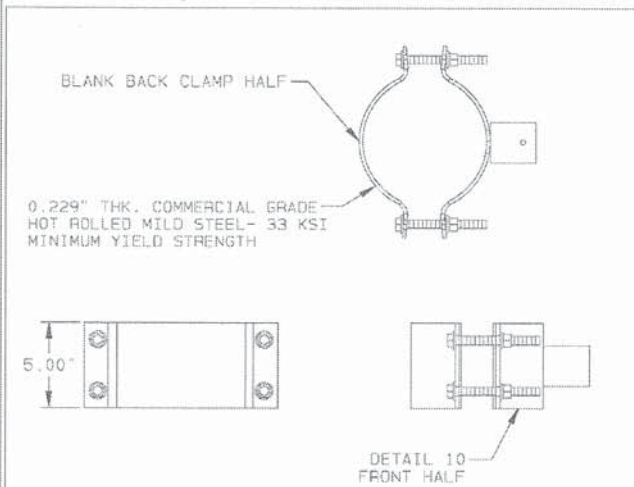
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 59 METRA STATION
STREET LIGHT POLE AND LUMINAIRE ARM DETAIL
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	90
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



DETAIL 19 | OPTIONAL BANNER ARM PLUG



DETAIL 20 | OPTIONAL-BANNER ARM BLANK CLAMP

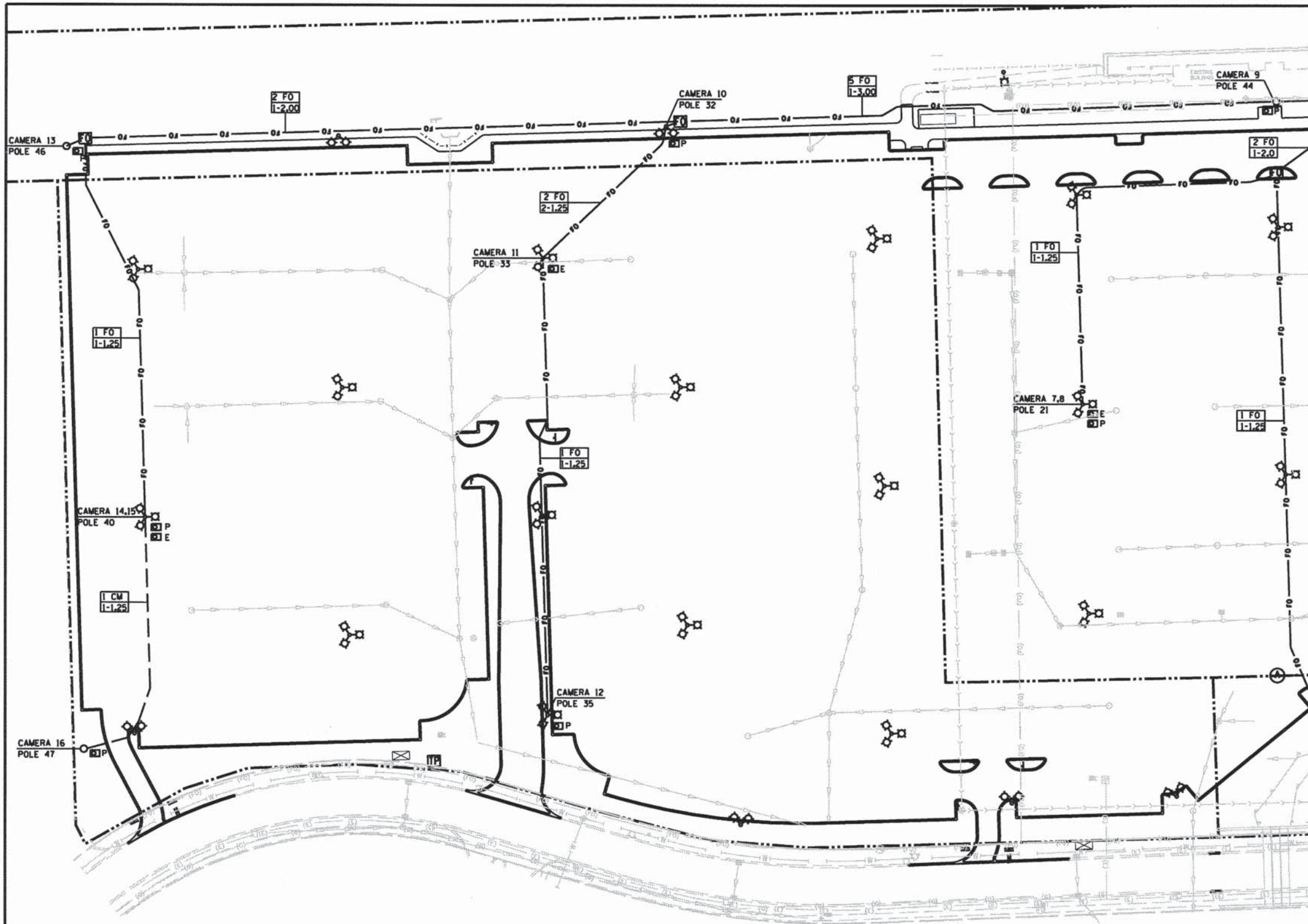
NOTES:
 1. POLE CONFORMS TO ASTM DESIGNATION: A595 GR. A WITH 55,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT.
 2. BASE PLATE CONFORMS TO AASHTO M-270 (ASTM: A709 GR.50).
 3. ANCHOR BOLTS-ALL STRUCTURES-ASTM F1554 GR 55 55,000 P.S.I. MINIMUM YIELD STRENGTH. (AASHTO M314)
 4. CAST POLE TOP CAP-SECURED IN PLACE WITH 3 STAINLESS STEEL SET SCREWS.
 5. ALL NON-STAINLESS THREADED FASTENERS TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).
 6. LUMINAIRE ARM SHAFT CONFORMS TO 2" SCHED. 40 PIPE WITH 36,000 P.S.I. MINIMUM YIELD STRENGTH
 7. LUMINAIRE ATTACHMENT CONFORMS TO ASTM A27 GR. 65-35.
 8. SHAFT GAUGE OR THICKNESS ARE AS FOLLOWS: 7 GA. = 0.1793".

LOADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

STATE OF ILLINOIS
 GENERAL NOTES

POLE AND LUMINAIRE ARM DATA															
ITEM	QTY.	POLE TUBE				POLE BASE				ANCHOR BOLT				LUMINAIRE ARM TUBE	
		BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	PIPE OUTSIDE DIA. (IN)	WALL THICKNESS (IN)
FL805-40S6STBA-BC/5K-A1AB		10.00	4.75	37.50	7	15.00	15.00	1.25	1.38 X 1.94	1.25	42.00	6.00	6.00	2.38	0.154
FL805-40S6STBA-HN24EC-C1-AB		10.00	4.75	37.50	7	15.00	15.00	1.25	1.38 X 1.94	1.25	42.00	6.00	6.00	2.38	0.154
FL805-40T6STBA-HN24EC-D1-AB		10.00	4.75	37.50	7	15.00	15.00	1.25	1.38 X 1.94	1.25	42.00	6.00	6.00	2.38	0.154

TITLE CITY OF AURORA LIGHTING STRUCTURES	VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS	valmont Valley, NE 68064 (402) 359-2201	PAGE NUMBER: 6 OF 6 DRAWING NUMBER: DB00873 REV: E
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- CIRCUIT DESIGNATION IDENTIFICATION**
- NUMBER OF CABLE(S) IN CONDUIT
 - TYPE OF CABLE IN CONDUIT
 - FO - FIBER OPTIC CABLE, NO. 62.5/125, 6F
 - CM - COMMUNICATION CABLE, CAT-6
 - X XX
X-X.XX
 - DUCT SIZE (INCHES)
 - NUMBER OF DUCTS (PVC)
- CAMERA SYSTEM SYMBOLS LEGEND**
- PROPOSED PARKING LOT LIGHTING UNITS
 - PROPOSED CAMERA POLE
 - PROPOSED CAMERA, ENTRANCE MONITORING
 - PROPOSED CAMERA, PARKING LOT MONITORING
 - PROPOSED HANDHOLE, COMPOSITE CONCRETE
 - PROPOSED CONDUIT AND FIBER OPTIC CABLE
 - PROPOSED CONDUIT AND COMMUNICATIONS CABLE

- NOTES**
1. SEE LIGHTING PLAN FOR EXACT POLE LOCATIONS AND CAMERA POWER DETAILS.
 2. CAMERA SYSTEM CONDUITS SHALL BE RUN IN COMMON TRENCH WITH SITE LIGHTING AND ELECTRICAL CONDUITS WHEN POSSIBLE. CONDUITS NOT NEEDED AT POLES SHALL BYPASS THE POLE FOUNDATION AND BASE.
 3. CONTRACTOR TO VERIFY THAT PROPOSED CONDUIT SIZES AND CABLE TYPES ARE ADEQUATE FOR THE CAMERA SYSTEM INSATLLED AND ADJUST AS NECESSARY. ADDITIONAL COST OF ANY MODIFICATIONS TO CONDUIT SIZE SHALL BE INCLUDED IN THE COST OF "VIDEO SURVEILLANCE SYSTEM COMPLETE".
 4. ALL FIBER OPTIC AND COMMUNICATION CONDUITS SHALL HAVE NO. 14 1C TRACER WIRE.

MATCHLINE SEE SHEET 93



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = bhert	DESIGNED -	REVISED -
PLOT SCALE = 100'	DRAWN -	REVISED -
PLOT DATE = 10/16/2015	CHECKED -	REVISED -
	DATE - 10-09-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SECURITY CAMERA AND COMMUNICATION LAYOUT

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	92
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

CIRCUIT DESIGNATION IDENTIFICATION

- NUMBER OF CABLE(S) IN CONDUIT
- TYPE OF CABLE IN CONDUIT
 - FO - FIBER OPTIC CABLE, NO. 62.5/125, 6F
 - CM - COMMUNICATION CABLE, CAT-6
- X XX
X-X.XX — DUCT SIZE (INCHES)
- NUMBER OF DUCTS (PVC)

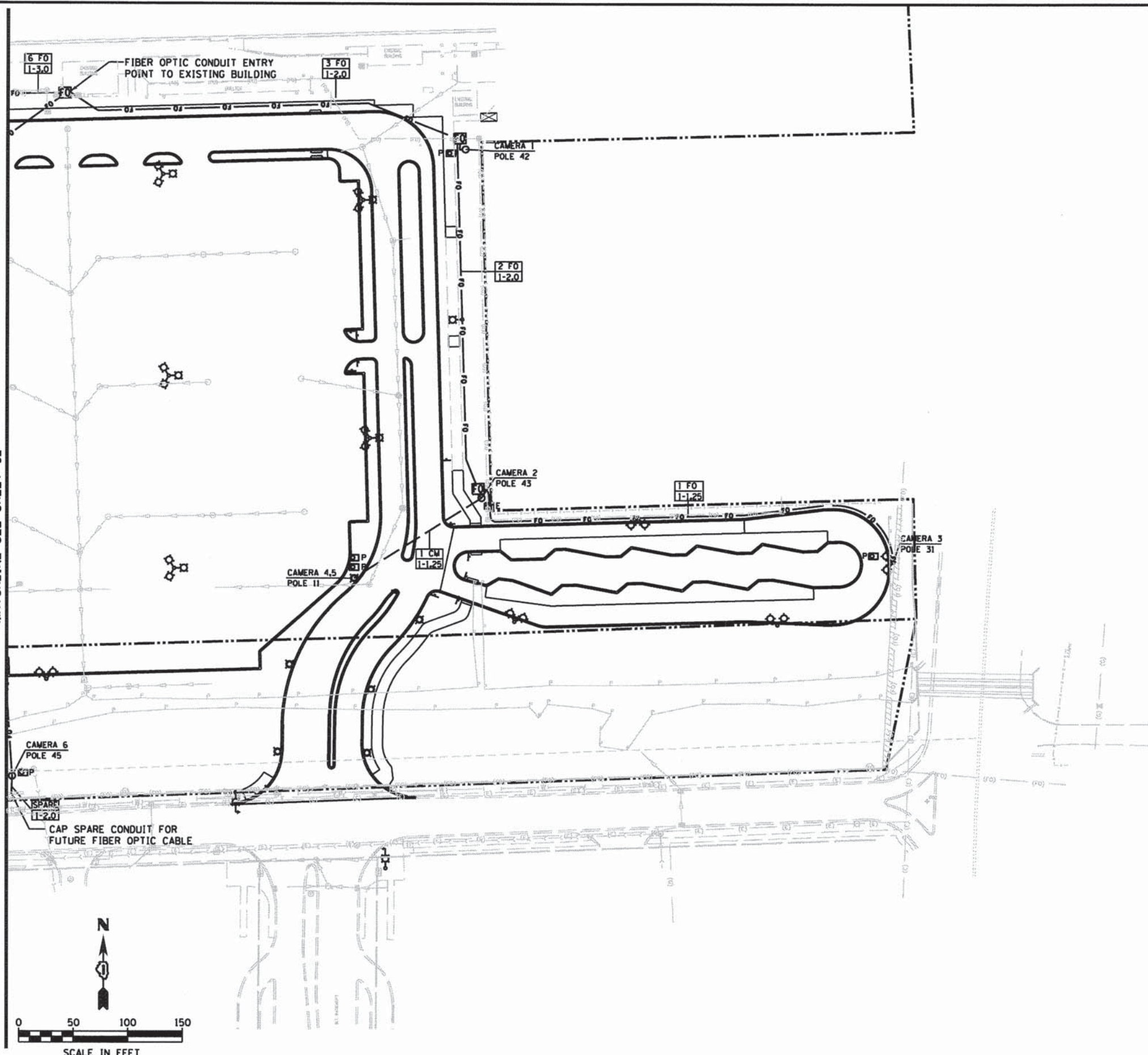
CAMERA SYSTEM SYMBOLS LEGEND

- ☒ PROPOSED PARKING LOT LIGHTING UNITS
- PROPOSED CAMERA POLE
- ☒ E PROPOSED CAMERA, ENTRANCE MONITORING
- ☒ P PROPOSED CAMERA, PARKING LOT MONITORING
- ☒ PROPOSED HANDHOLE, COMPOSITE CONCRETE
- FO — PROPOSED CONDUIT AND FIBER OPTIC CABLE
- — — PROPOSED CONDUIT AND COMMUNICATIONS CABLE

NOTES

1. SEE LIGHTING PLAN FOR EXACT POLE LOCATIONS AND CAMERA POWER DETAILS.
2. CAMERA SYSTEM CONDUITS SHALL BE RUN IN COMMON TRENCH WITH SITE LIGHTING AND ELECTRICAL CONDUITS WHEN POSSIBLE. CONDUITS NOT NEEDED AT POLES SHALL BYPASS THE POLE FOUNDATION AND BASE.
3. CONTRACTOR TO VERIFY THAT PROPOSED CONDUIT SIZES AND CABLE TYPES ARE ADEQUATE FOR THE CAMERA SYSTEM INSATLLED AND ADJUST AS NECESSARY. ADDITIONAL COST OF ANY MODIFICATIONS TO CONDUIT SIZE SHALL BE INCLUDED IN THE COST OF "VIDEO SURVEILLANCE SYSTEM COMPLETE".
4. ALL FIBER OPTIC AND COMMUNICATION CONDUITS SHALL HAVE NO. 14 1C TRACER WIRE.

MATCHLINE SEE SHEET 92



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USER NAME = bher	DESIGNED -	REVISED -
PLOT SCALE = 100'	DRAWN -	REVISED -
PLOT DATE = 10/16/2015	CHECKED -	REVISED -
	DATE - 10-09-15	REVISED -

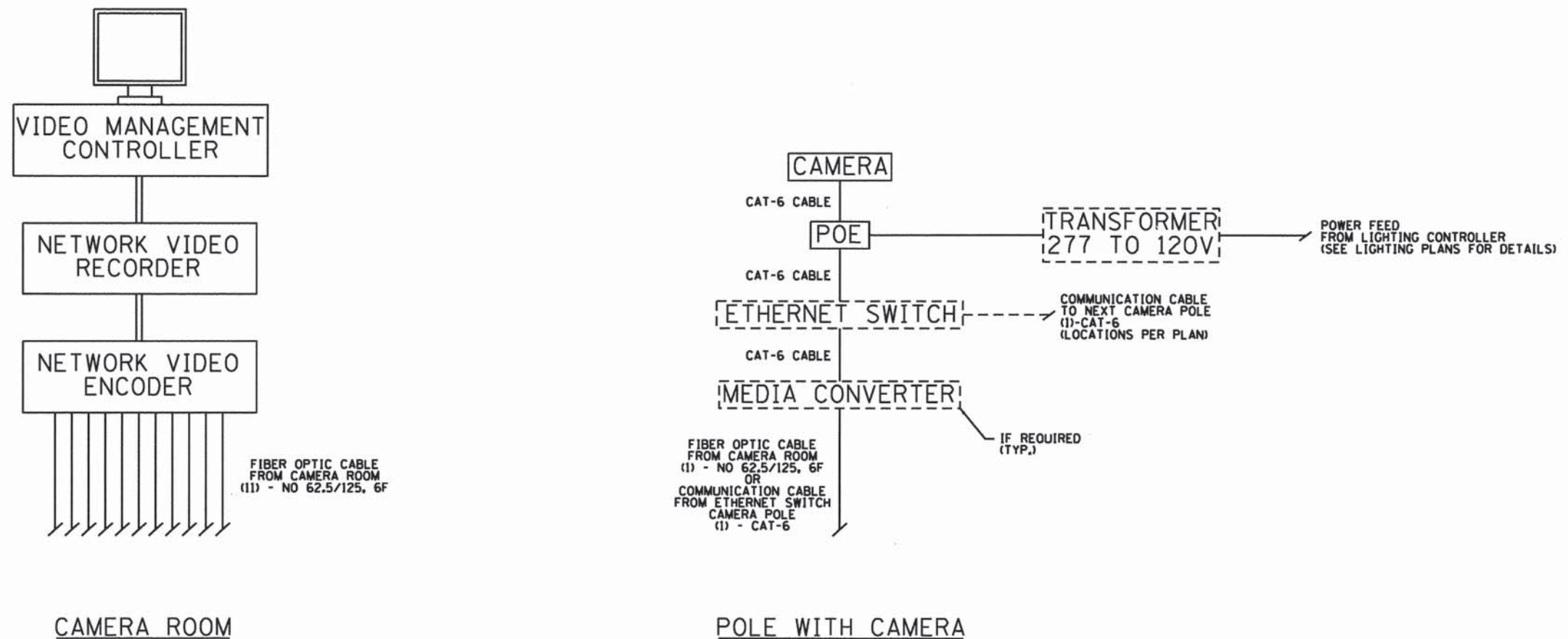
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SECURITY CAMERA AND COMMUNICATION LAYOUT

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	93
CONTRACT NO. 61833				
ILLINOIS FED. AID PROJECT				

SECURITY CAMERA SCHEDULE							
CAMERA NO.	CAMERA TYPE	MOUNTING POLE NO.	POWER SERVICE	ADDITIONAL EQUIPMENT			
				STEPDOWN TRANSFORMER	P.O.E. INJECTOR	ETHERNET SWITCH	MEDIA CONVERTER
1	PARKING LOT	POLE 42	277 V	X	X		X
2	ENTRANCE	POLE 43	277 V	X	X	X	X
3	PARKING LOT	POLE 31	277 V	X	X		X
4	PARKING LOT	POLE 11	277 V	X	X		
5	PARKING LOT						
6	PARKING LOT	POLE 45	277 V	X	X	X	X
7	PARKING LOT	POLE 21	277 V	X	X		X
8	ENTRANCE						
9	PARKING LOT	POLE 44	277 V	X	X		X
10	PARKING LOT	POLE 32	120 V		X		X
11	ENTRANCE	POLE 33	120 V		X		X
12	PARKING LOT	POLE 35	120 V		X		X
13	PARKING LOT	POLE 46	120 V		X		X
14	PARKING LOT	POLE 40	120 V		X	X	X
15	ENTRANCE						
16	PARKING LOT	POLE 47	120 V		X		
TOTALS				7	13	3	11



VIDEO SURVEILLANCE CAMERA SYSTEM LINE DIAGRAM



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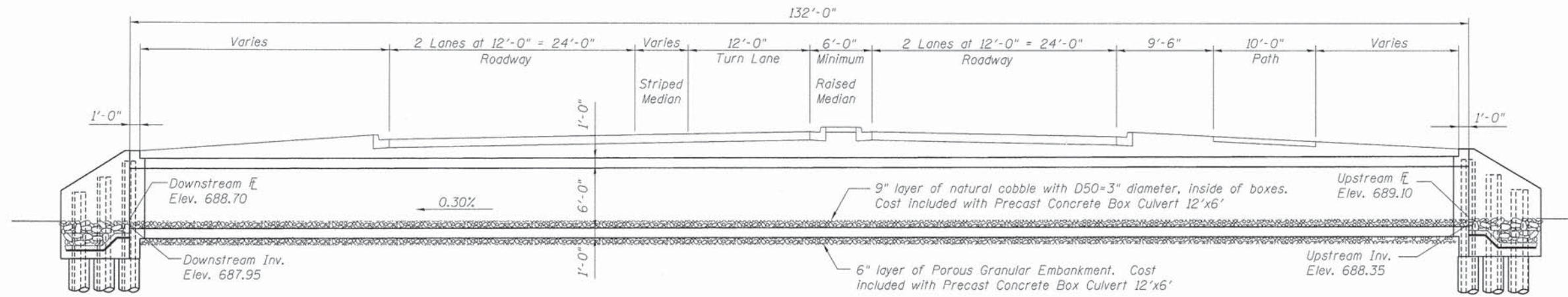
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	DATE - 10-09-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

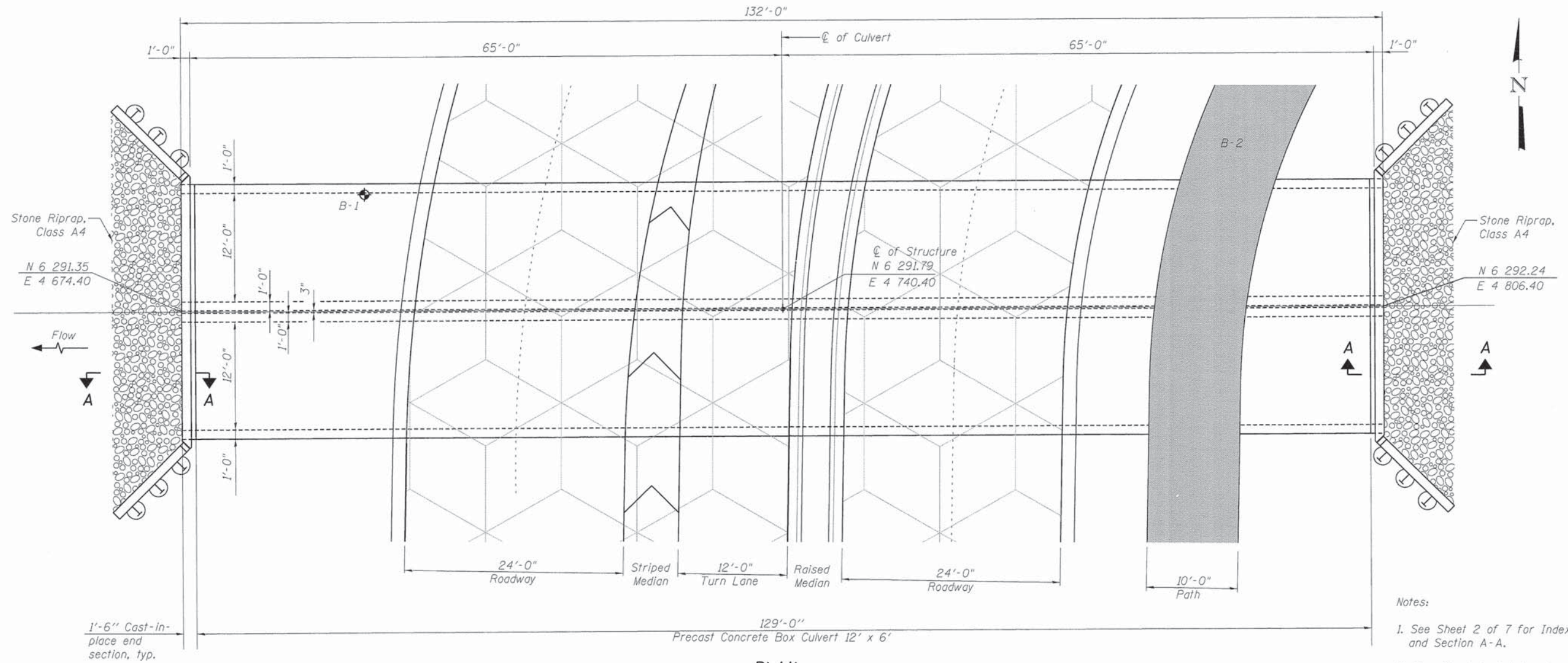
SECURITY CAMERA AND COMMUNICATION DETAILS

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	94
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION



PLAN

- Notes:
1. See Sheet 2 of 7 for Index of Sheets and Section A-A.
 2. See Sheet 3 of 7 for General Notes.



USER NAME =	DESIGNED - CJB	REVISED
PLOT SCALE =	CHECKED - WJV	REVISED
PLOT DATE =	DRAWN - CJB	REVISED
	CHECKED - WJV	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION
BOX CULVERT**

SHEET NO. 1 OF 7 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	95
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

BM#1 - City of Aurora Control Monument #31 East
 Found Brass Disk Southeast corner of Liberty Street and Commons Drive.
 *1.3' off back of curb, 4.3' South of back of curb/edge of walk and 1.6' West of curb inlet.
 DATUM: NAVD88/GEOID 99 Elev.=705.65 held
 SBM#1 - (CP 113) Set Cut Cross at concrete walk Southwest corner of Meridian Lake Drive and Route 59. Elev.=700.607
 SBM#2 - (CP 125) Set PK Nail on bituminous path south side of Meridian Parkway. Elev.=694.256

CULVERT CONSTRUCTION SEQUENCE

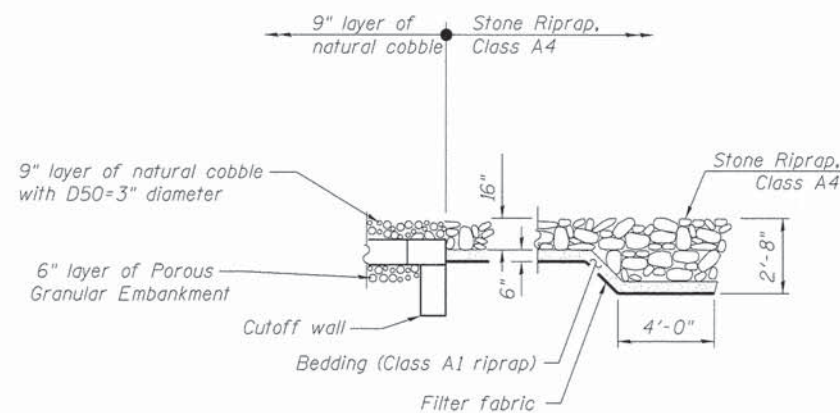
1. Build cutoff wall.
2. Prepare bed.
3. Place precast box culvert sections.
4. Form and place concrete for portion of end sections to be cast onto precast box sections.
5. Drill soldier piles (May be completed prior to box placement).
6. Install timber lagging.
7. Place and compact backfill behind wall to top of timber lagging.
8. Place geocomposite wall drain.
9. Install shear stud connectors.
10. Place rebar and form wall face.
11. Cast concrete wingwall.
12. Remove temp. soldier pile and remaining timber outside wall limits.
13. Place remainder of backfill to proposed ground surface elevations on both sides of wall. (Backfill front of wall as much as possible before backfilling is completed.)
14. Install riprap.

WATERWAY INFORMATION

Drainage Area = 1.097 sq. mi. Proposed Overtopping Elev. = 698.00 @ Sta. 30+75

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	142.0	0.00	88.3	692.08	0.00	0.04	692.08	692.12
Base	50	232.0	0.00	144.0	695.08	0.00	0.00	695.08	695.08
Base	100	270.0	0.00	144.0	696.50	0.00	0.00	696.50	696.50
Scour Design Check	-	-	-	-	-	-	-	-	-
Overtopping Existing	-	-	-	-	-	-	-	-	-
Overtopping Proposed	-	-	-	-	-	-	-	-	-
Max. Calc.	500	432.0	0.00	144.0	698.75	0.00	0.00	698.75	698.75

10-Year Velocity through Proposed Bridge = 1.40 ft./sec.



SECTION A-A

(See Plan on Sheet 1 of 7 for Section cuts)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	685.35	684.95

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition
 ASTM C1577

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (AASHTO M270, Grade 36)

PRECAST UNITS

f'c = 5,000 psi
 fy = 65,000 psi (Welded wire fabric)

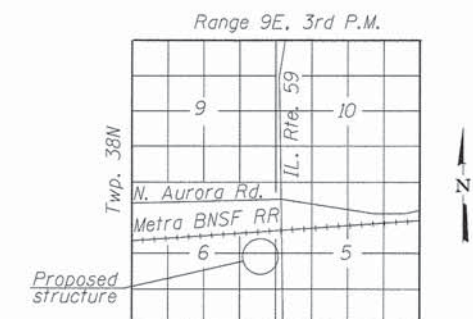
LOADING HL-93

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Concrete Box Culverts 12' x 6'	Foot	258.0
Box Culvert End Sections, Culvert No. 1	Each	2
Membrane Waterproofing for Culverts	Sq. yd.	440.3
Stone Riprap, Class A4	Sq. yd.	61.8
Filter Fabric	Sq. yd.	61.8

LOCATION SKETCH



USER NAME =	DESIGNED -	REVISOR
	CJB	
CHECKED -	DRAWN -	REVISOR
	WJV	
PLOT SCALE =	DRAWN -	REVISOR
	CJB	
PLOT DATE =	CHECKED -	REVISOR
	WJV	

STATE OF ILLINOIS
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INDEX OF SHEETS AND TOTAL BILL OF MATERIAL

SHEET NO. 2 OF 7 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	96
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. The design fill height for this structure is maximum 2.67 feet and minimum 1.93 feet at edge of roadway. The precast concrete box culvert sections shall conform to the requirements of ASTM C1577.

Areas of the precast box culvert in contact with cast-in-place concrete shall be sand blasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b) of the Standard Specifications.

In order to minimize excessive deflection and/or stresses in the soldier piles, compaction equipment used within 4 feet of the back face of the timber lagging shall be limited to lightweight mechanical tampers, rollers, or vibratory systems. Build top of headwalls parallel to the grade lines.

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

End Sections will be paid for at the contract unit price each for BOX CULVERT END SECTIONS, CULVERT NO. 1 as outlined in Section 540 of the Standard Specifications.

The box culvert end section shall be built in the field and a precast option is not allowed. Class SI concrete shall be used for the concrete cast in the field for the cutoff walls, portions of the end sections being cast onto the end of the precast box sections, and the concrete facing for the walls. Concrete, rebar, and welded wire fabric quantities and lengths calculated for the end sections may vary based upon the precast box culverts supplied.

The ends of the precast box sections adjacent to the end sections shall be formed without the tongue and groove shapes specified in Article 8.1 of ASTM C1577.

The longitudinal reinforcement of the welded wire fabric extending from the precast boxes into the end sections shall have a minimum area of 0.20 in²/ft. Substitution of reinforcement bars for welded wire fabric is not allowed.

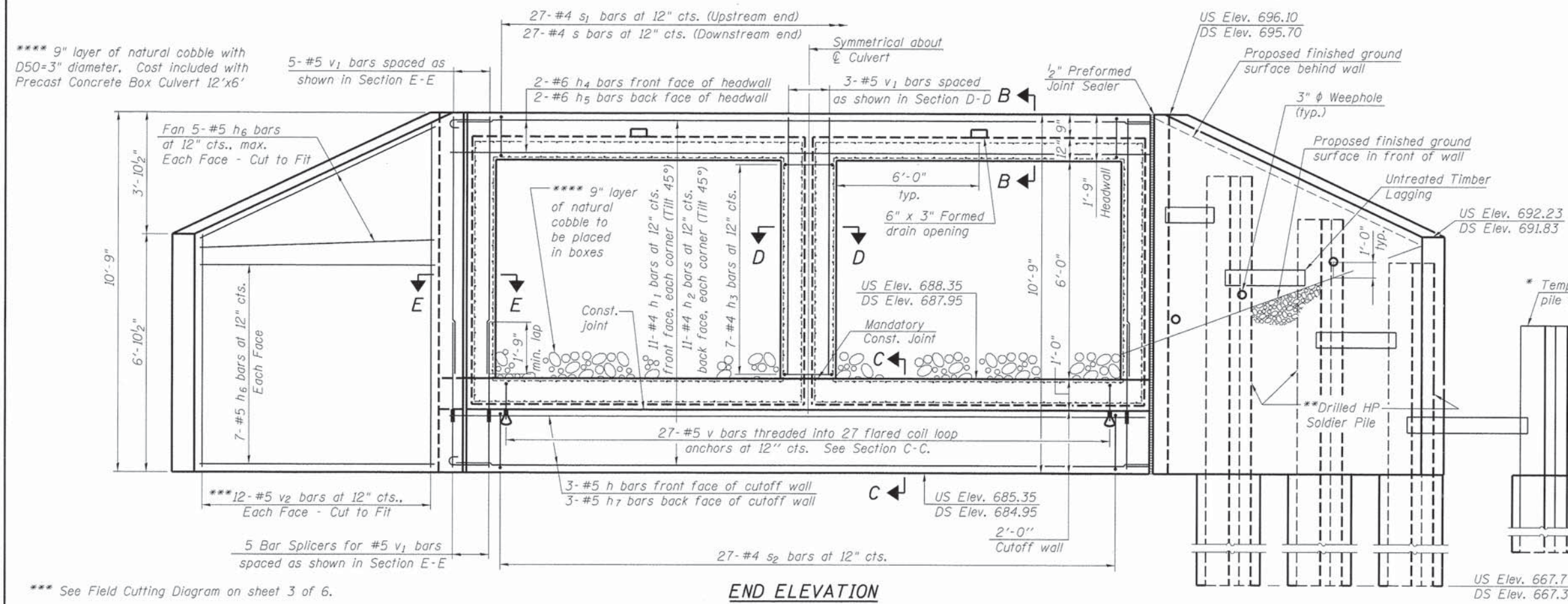
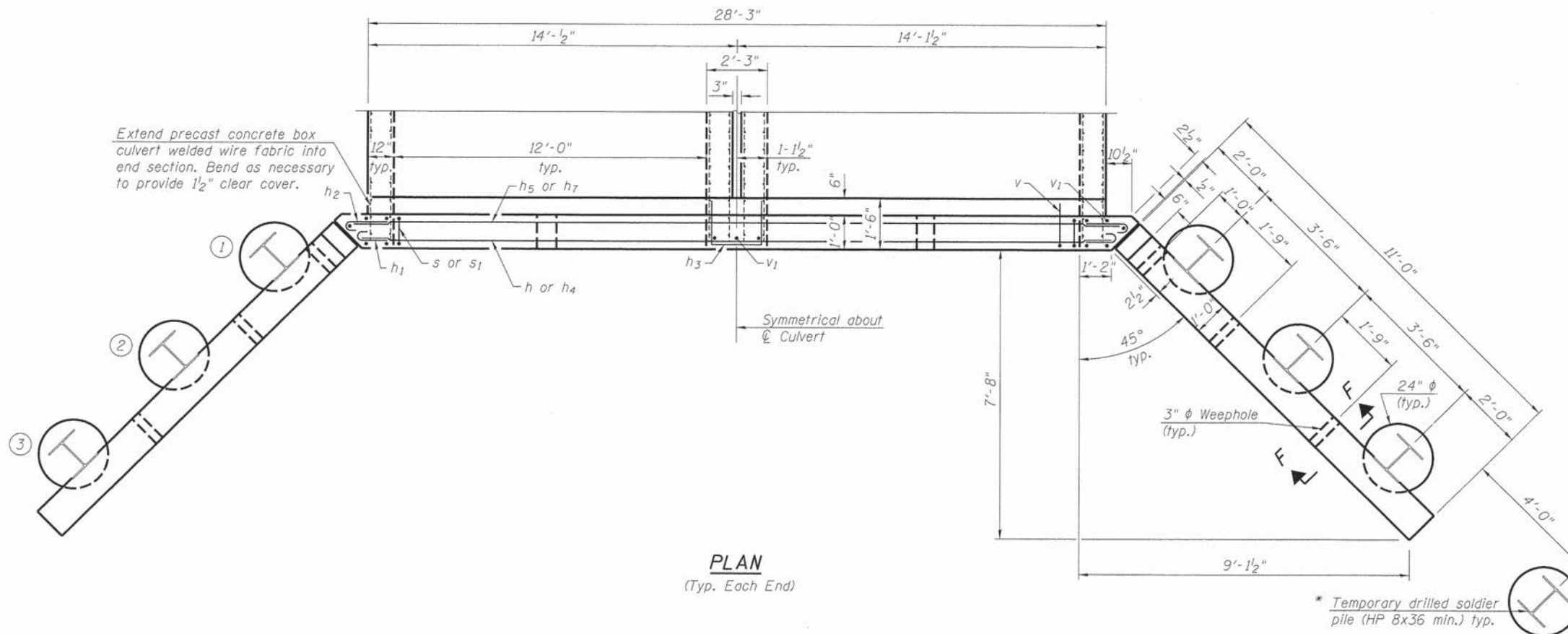
The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place, and protected during the backfilling process.

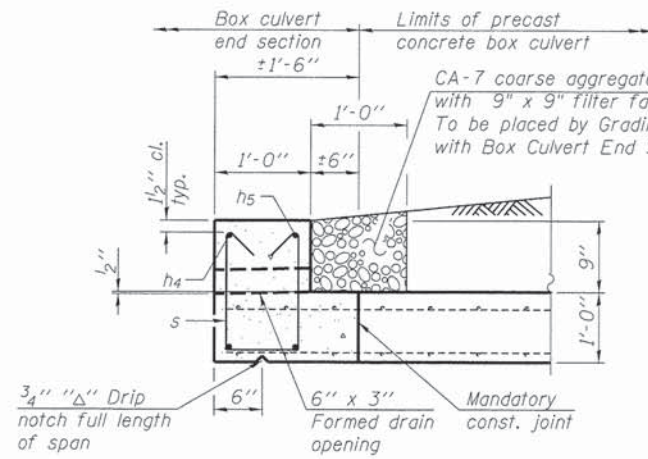
Due to low fill, provide Membrane Waterproofing for Culverts over the top of the culvert. See Special Provisions.

Note: See sheet 4 of 7 for Sections B-B thru E-E. See sheet 5 of 7 for Section F-F.

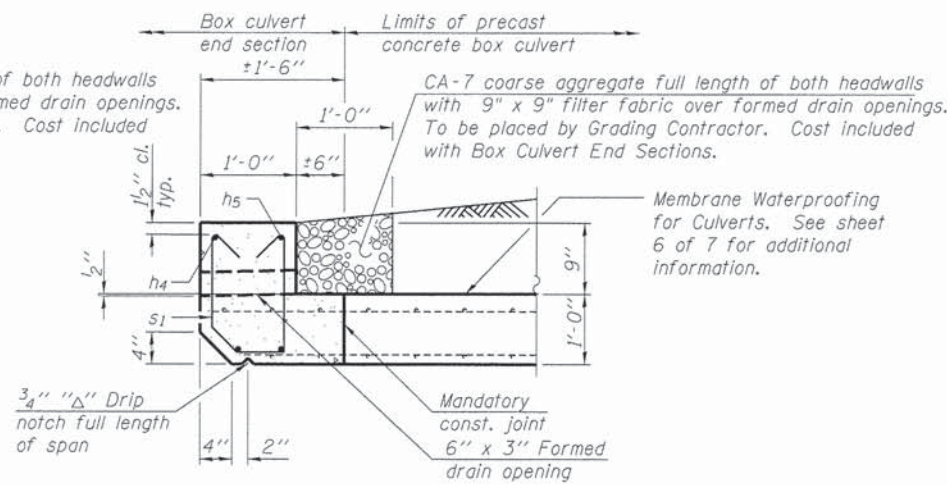
BILL OF MATERIAL

Item	Unit	Total
Box Culvert End Sections, Culvert No. 1	Each	2

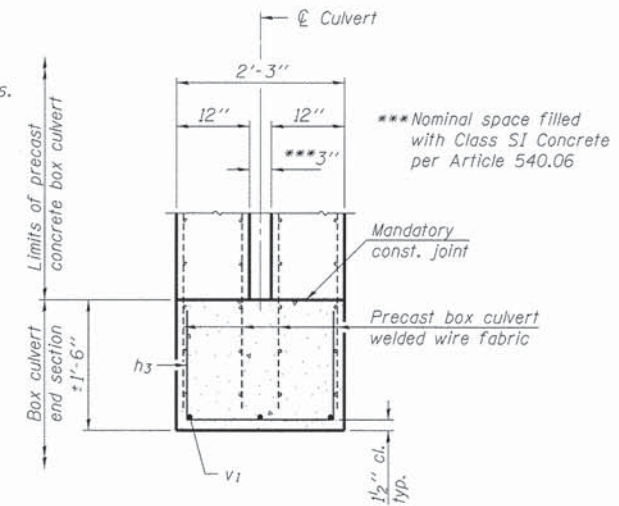




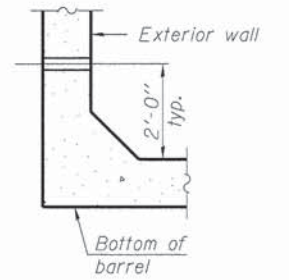
SECTION B-B
(Downstream Section)



SECTION B-B
(Upstream Section)

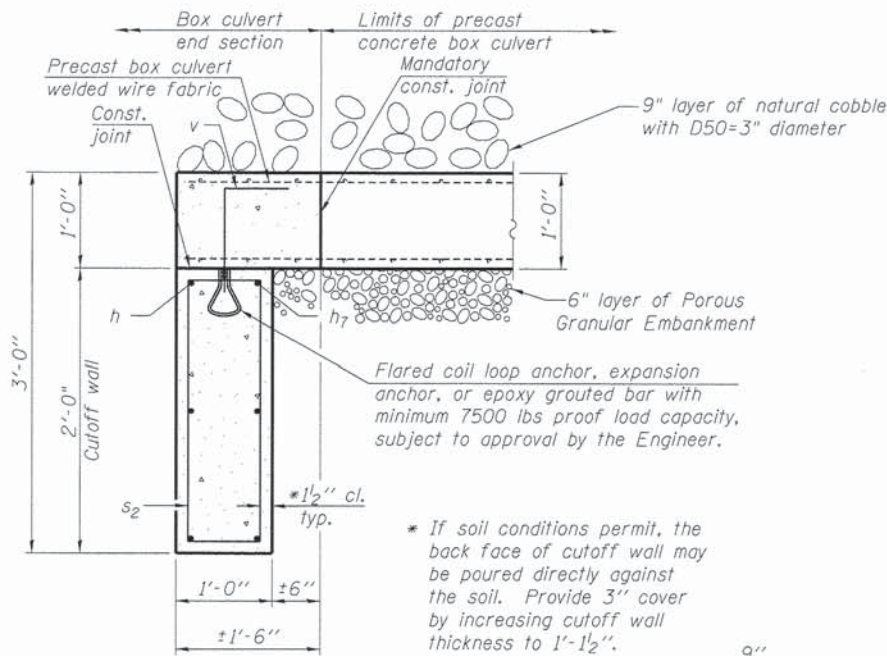


SECTION D-D
(Typ. Both Ends)

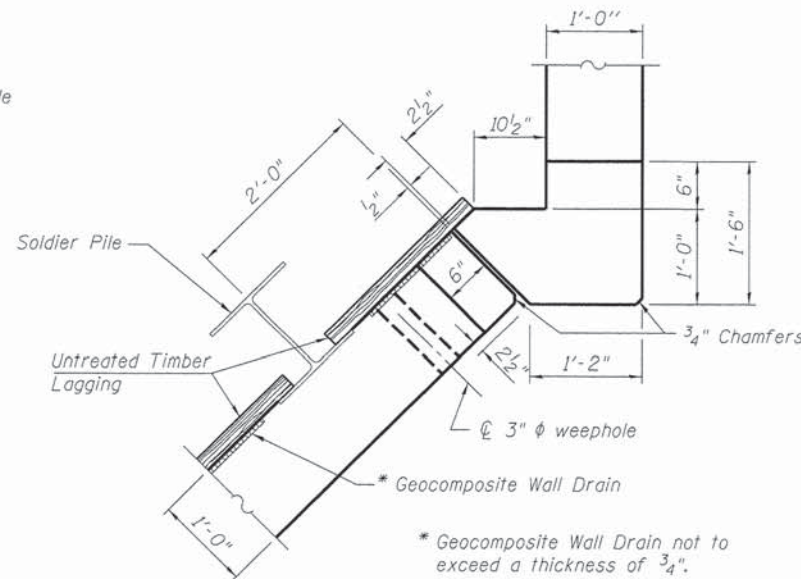


DRAIN DETAIL

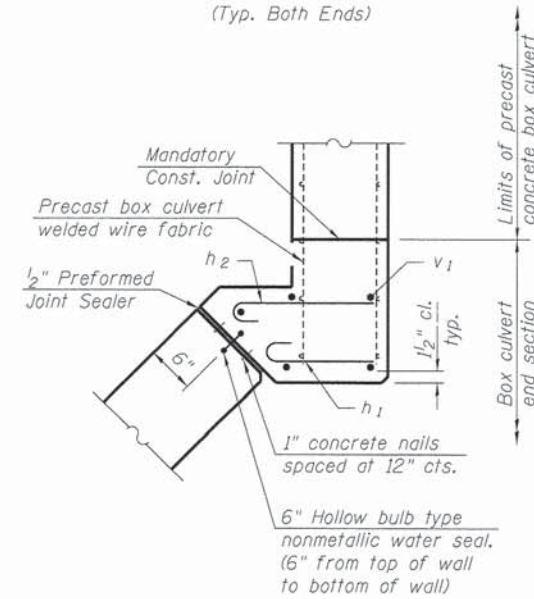
Provide 3" ϕ drain holes in exterior walls at $\pm 8'$ cts. See Article 503.11 of the Standard Specifications.



SECTION C-C



SECTION E-E
(Showing dimensions, wall drain, and weephole)



SECTION E-E
(Showing reinforcement and seal)

ONE END SECTION BILL OF MATERIAL

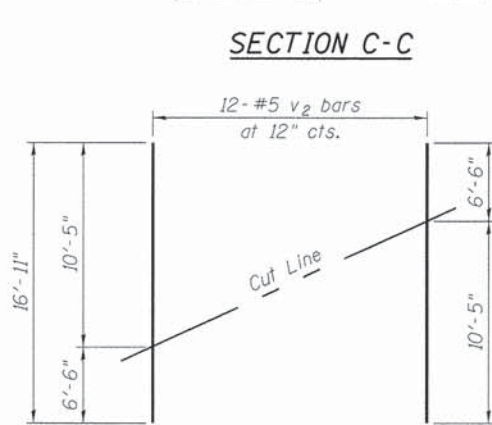
(For information only)

Bar	No.	Size	Length	Shape
h	3	#5	28'-1"	—
h ₁	22	#4	1'-8"	U
h ₂	22	#4	2'-0"	U
h ₃	7	#4	4'-6"	—
h ₄	2	#6	28'-3"	—
h ₅	2	#6	29'-8"	—
h ₆	48	#5	10'-8"	—
h ₇	3	#5	29'-8"	—
s	27	#4	4'-6"	U
s ₁	27	#4	4'-4"	U
s ₂	27	#4	5'-9"	U
v	27	#5	1'-9"	—
v ₁	13	#5	7'-6"	—
v ₂	24	#5	16'-11"	—
Concrete Structures	Cu. Yd.	7.2		
Stud Shear Connectors	Each	48		
Reinforcement Bars	Pound	1,720		
Bar Splicers	Each	10		
Furnishing Soldier Piles (HP Section)	Foot	169		
Drilling and Setting Soldier Piles (in soil)	Cu. Ft.	367		
Untreated Timber Lagging	Sq. Ft.	152		
Concrete Box Culverts	Cu. Yd.	7.5		
Geocomposite Wall Drain	Sq. Yd.	3		

**

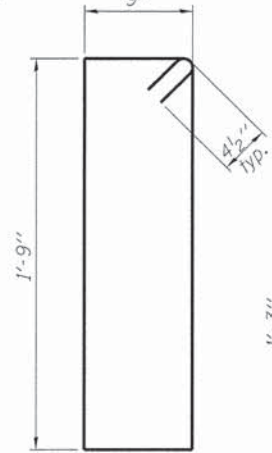
** Only s or s₁ bars are required for each end section.

The above pay items will not be measured for payment but shall be included in the contract unit price each for Box Culvert End Sections of the culvert number specified.

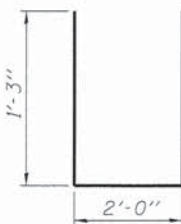


FIELD CUTTING DIAGRAM

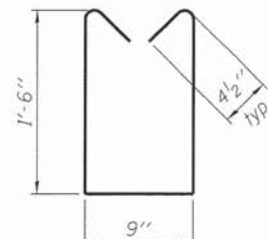
Order v₂ bars full length. Cut to fit and use remainder of bar in opposite face.



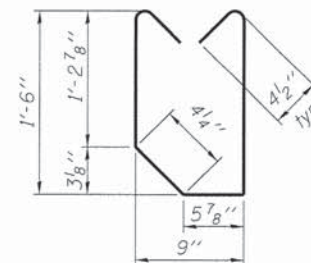
BAR s₂



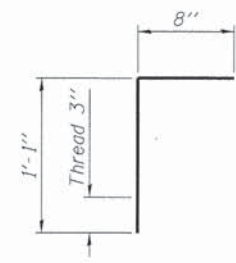
BAR h₃



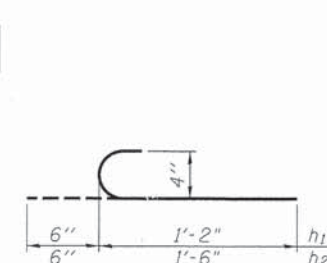
BAR s



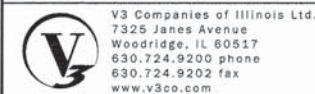
BAR s₁



BAR v



BARS h₁ and h₂



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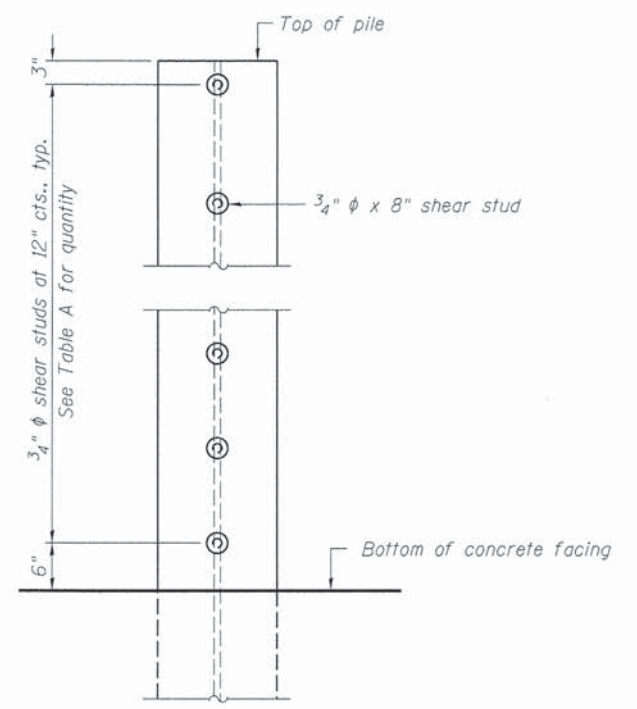
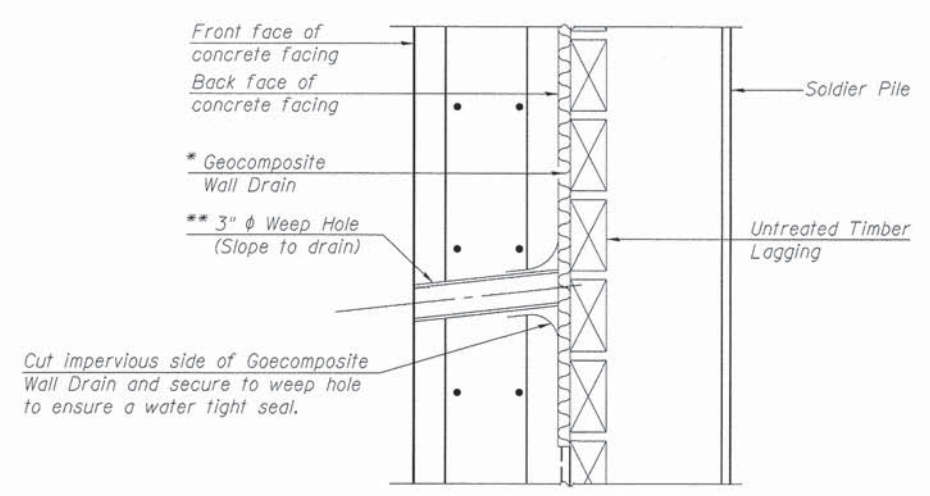
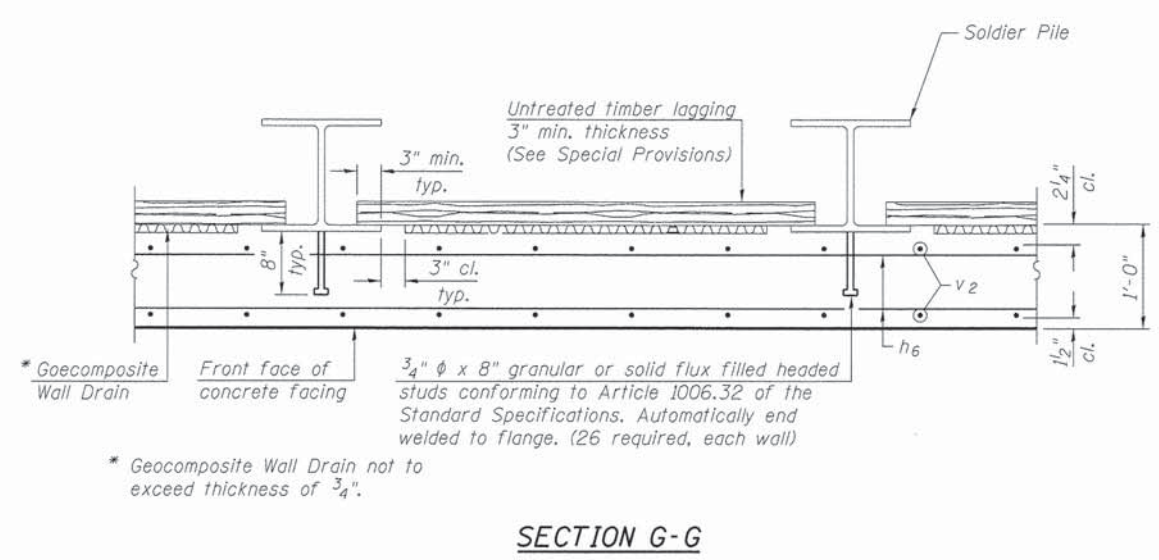
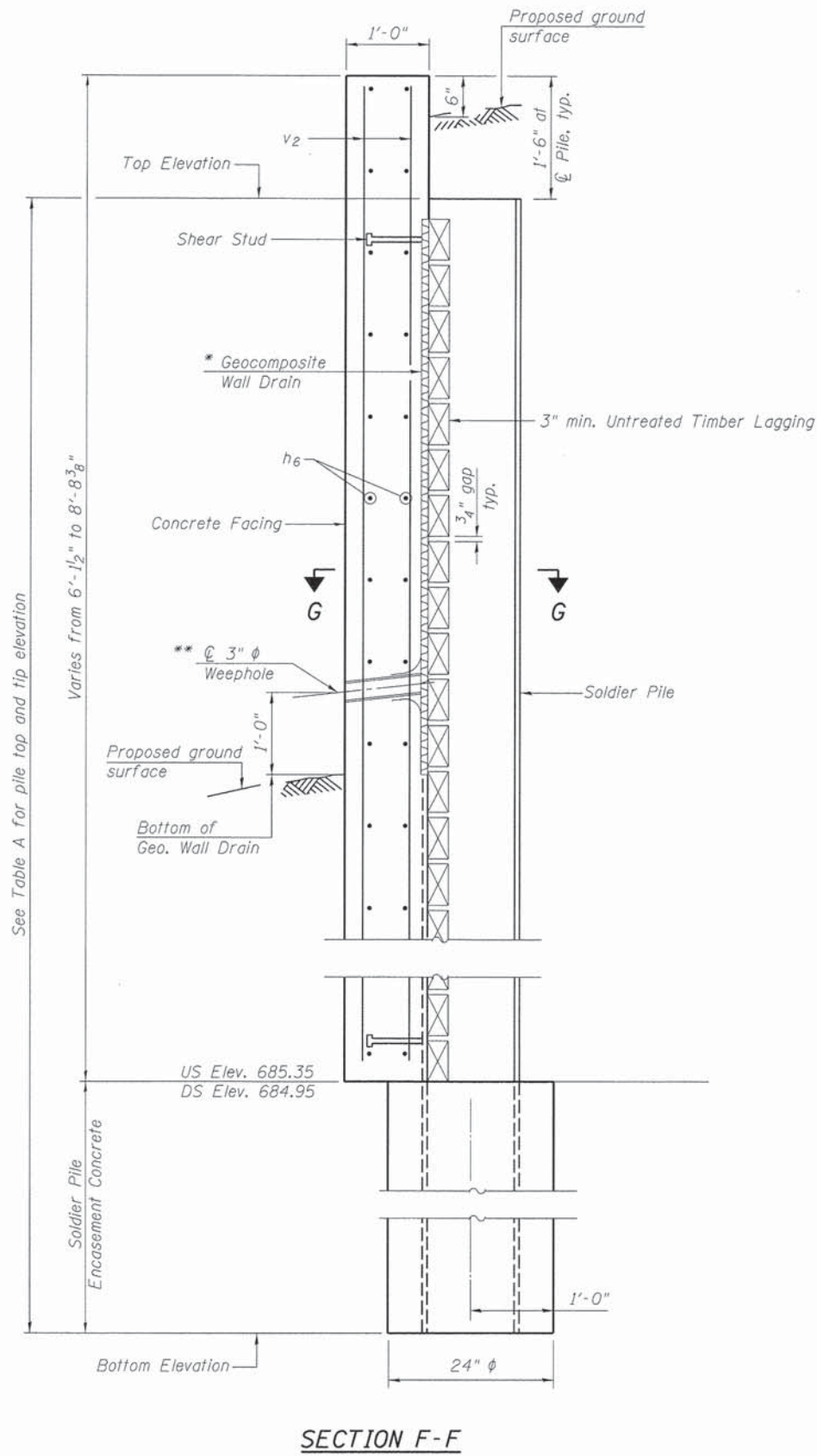
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PLOT DATE :	DRAWN - CJB	REVISED
	CHECKED - WJV	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION DETAILS

SHEET NO. 4 OF 7 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	98
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				



SHEAR STUD DETAIL
(Elevation of Pile Shown)

TABLE A
(Upstream)

Soldier Pile	Pile Size	Top Elevation (ft.)	Bottom Elevation (ft.)	Total Height (ft.)	Number of Shear Studs
1	HP 14 x 89	694.05	667.7	26.35	9
2	HP 14 x 89	692.76	667.7	25.06	8
3	HP 14 x 89	691.47	667.7	23.77	7
4	HP 8x36 (min.)	689.26	679.9	9.36	

TABLE A
(Downstream)

Soldier Pile	Pile Size	Top Elevation (ft.)	Bottom Elevation (ft.)	Total Height (ft.)	Number of Shear Studs
1	HP 14 x 89	693.65	667.3	26.35	9
2	HP 14 x 89	692.36	667.3	25.06	8
3	HP 14 x 89	691.07	667.3	23.77	7
4	HP 8x36 (min.)	688.86	679.9	9.36	

Note:
The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

SECTION F-F

SECTION G-G

WEEP HOLE DRAIN DETAIL



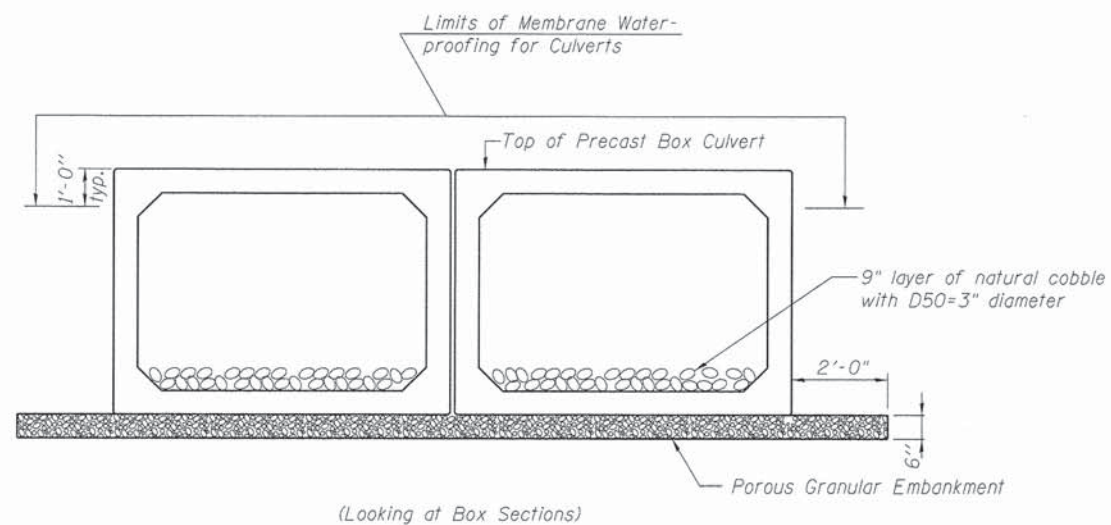
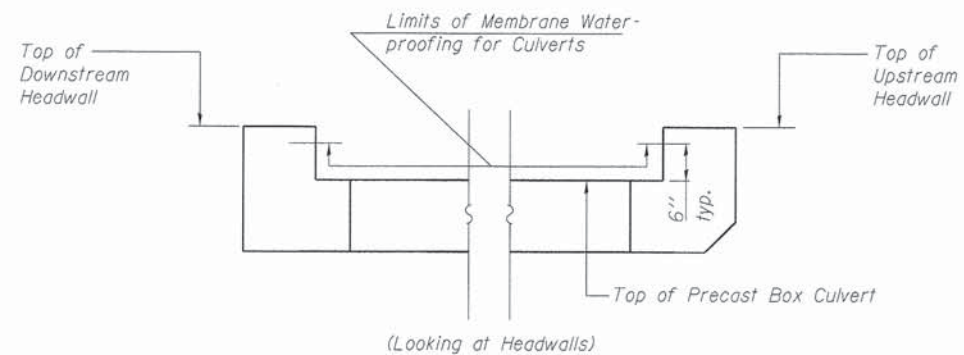
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PLOT SCALE :	CHECKED - WJV	REVISED -
PLOT DATE :	DRAWN - CJB	REVISED -
	CHECKED - WJV	REVISED -

STATE OF ILLINOIS
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BOX CULVERT END SECTION DETAILS

SHEET NO. 5 OF 7 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	99
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



LIMITS OF MEMBRANE WATER-PROOFING FOR CULVERTS AND POROUS GRANULAR EMBANKMENT UNDER BOXES

Note: Membrane Waterproofing for Culverts shall cover top of the top slab, top one foot of side walls, and 6 inches up inside face of the headwalls.

Note: Porous Granular Embankment under the boxes shall be included in the cost of Precast Concrete Box Culvert 12' x 6'

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER ASSEMBLY FOR BOX CULVERT END SECTION

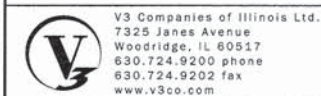
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

Location	Bar size	No. assemblies required	Table for minimum lap length
* Cutoff Wall	5	10	1

* For one end section



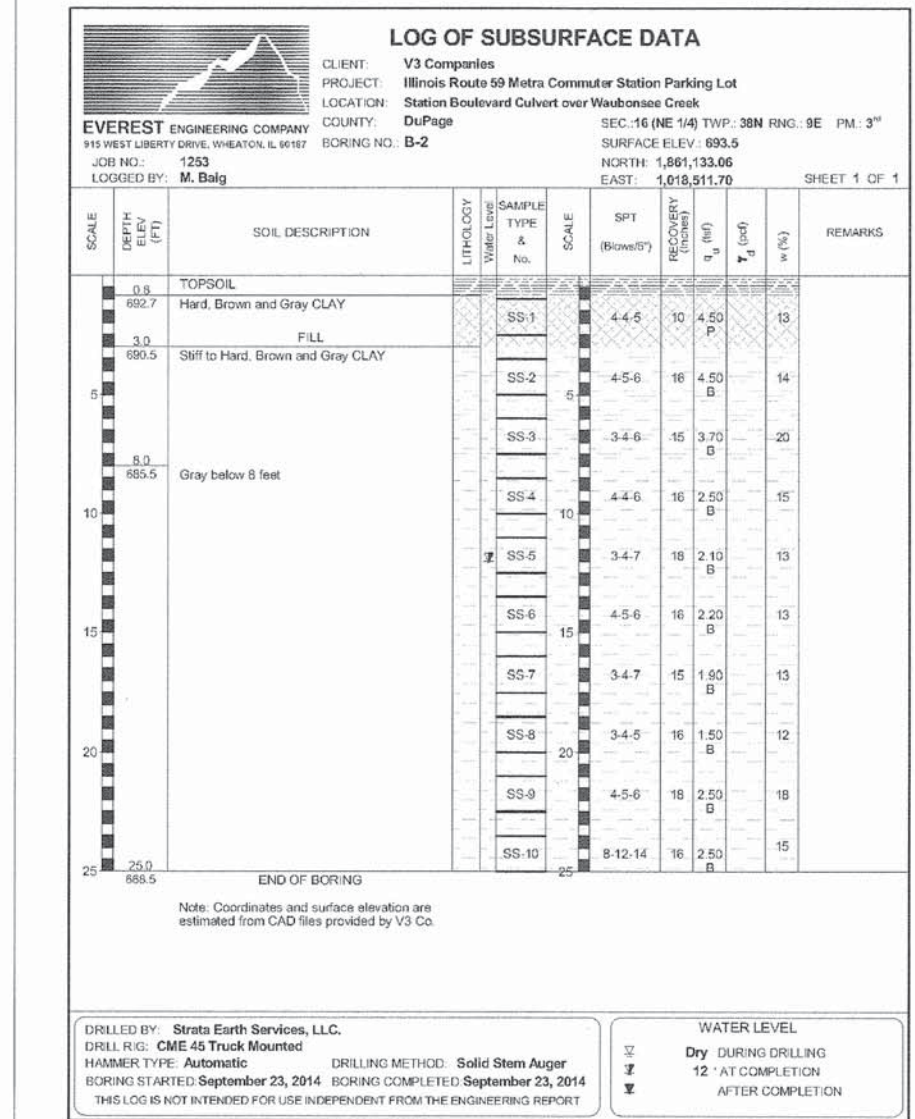
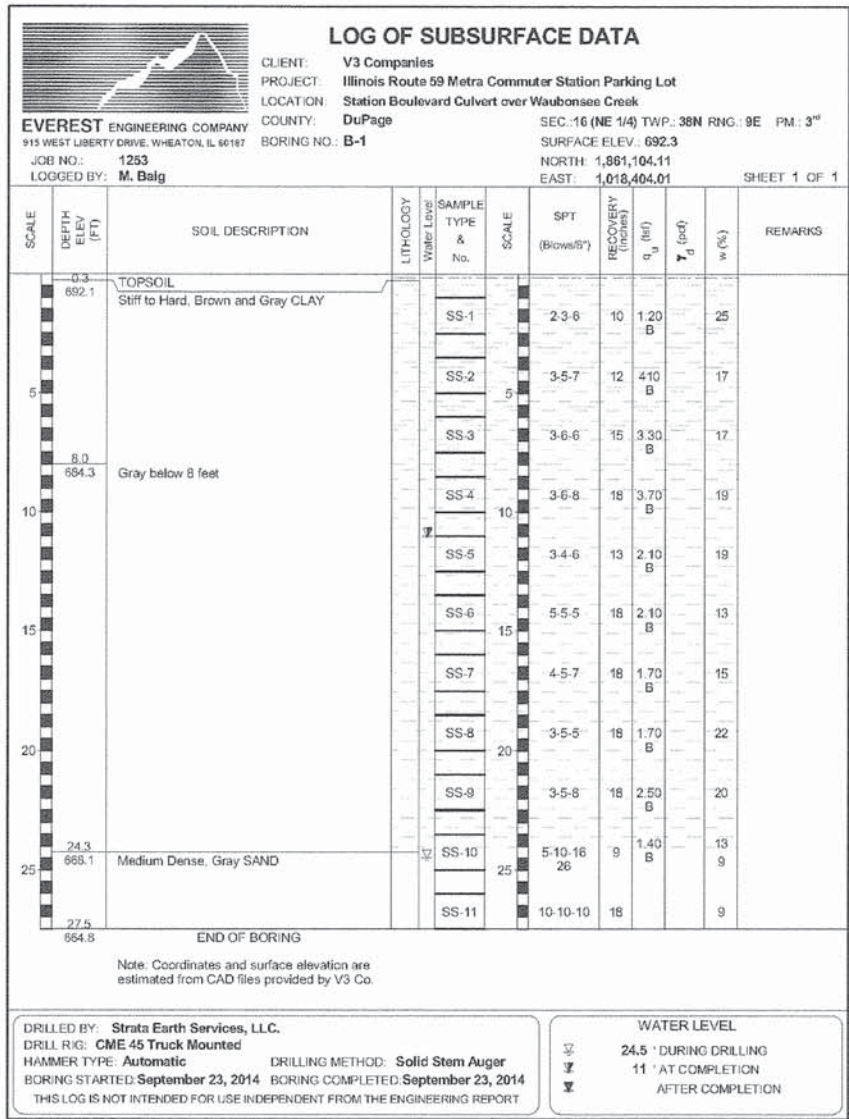
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PLOT DATE *	DRAWN - CJB	REVISED	---
	CHECKED - WJV	REVISED	---

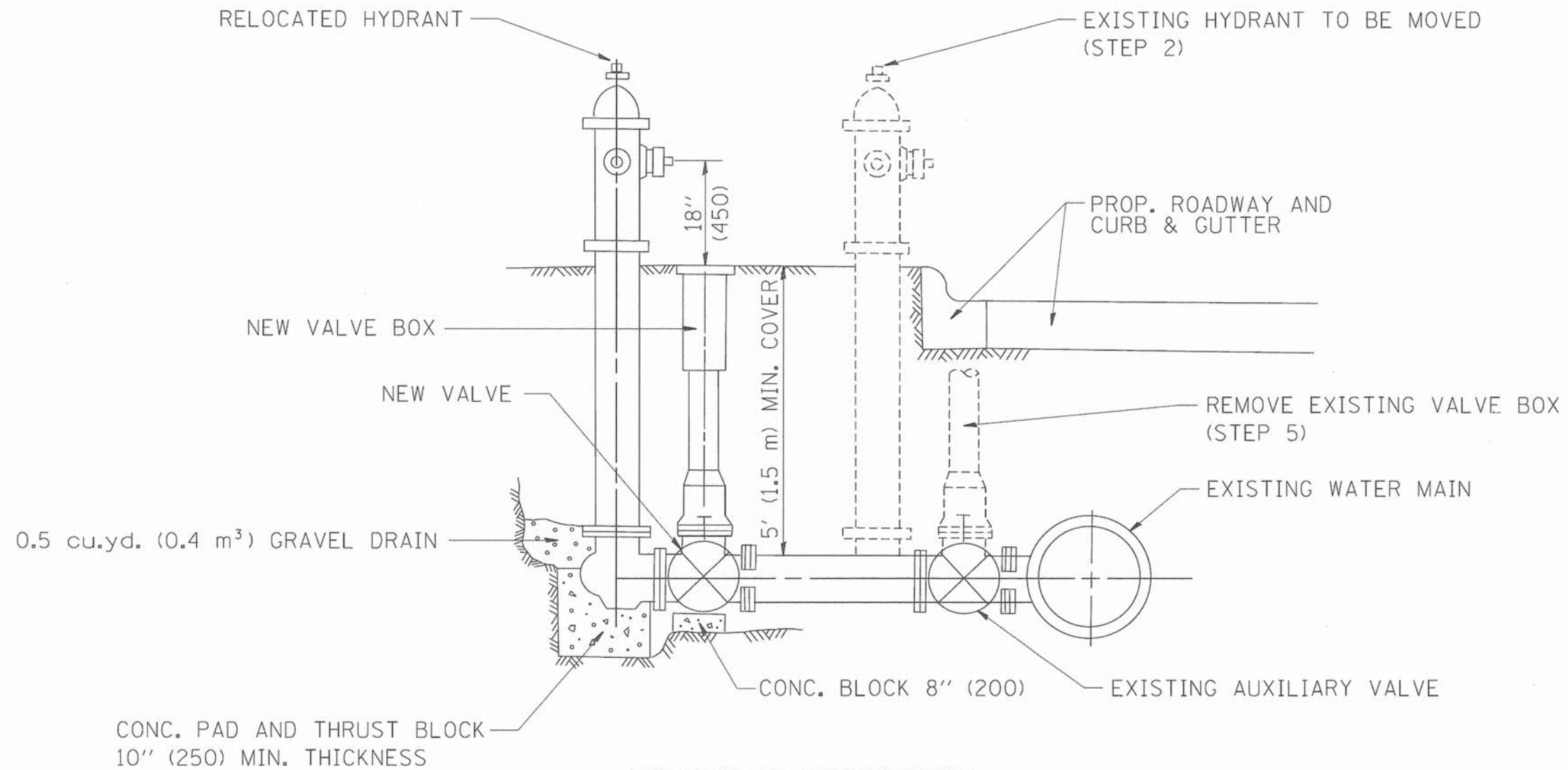
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION DETAILS AND WATERPROOFING LIMITS

SHEET NO. 6 OF 7 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	100
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	





SEQUENCE OF CONSTRUCTION:

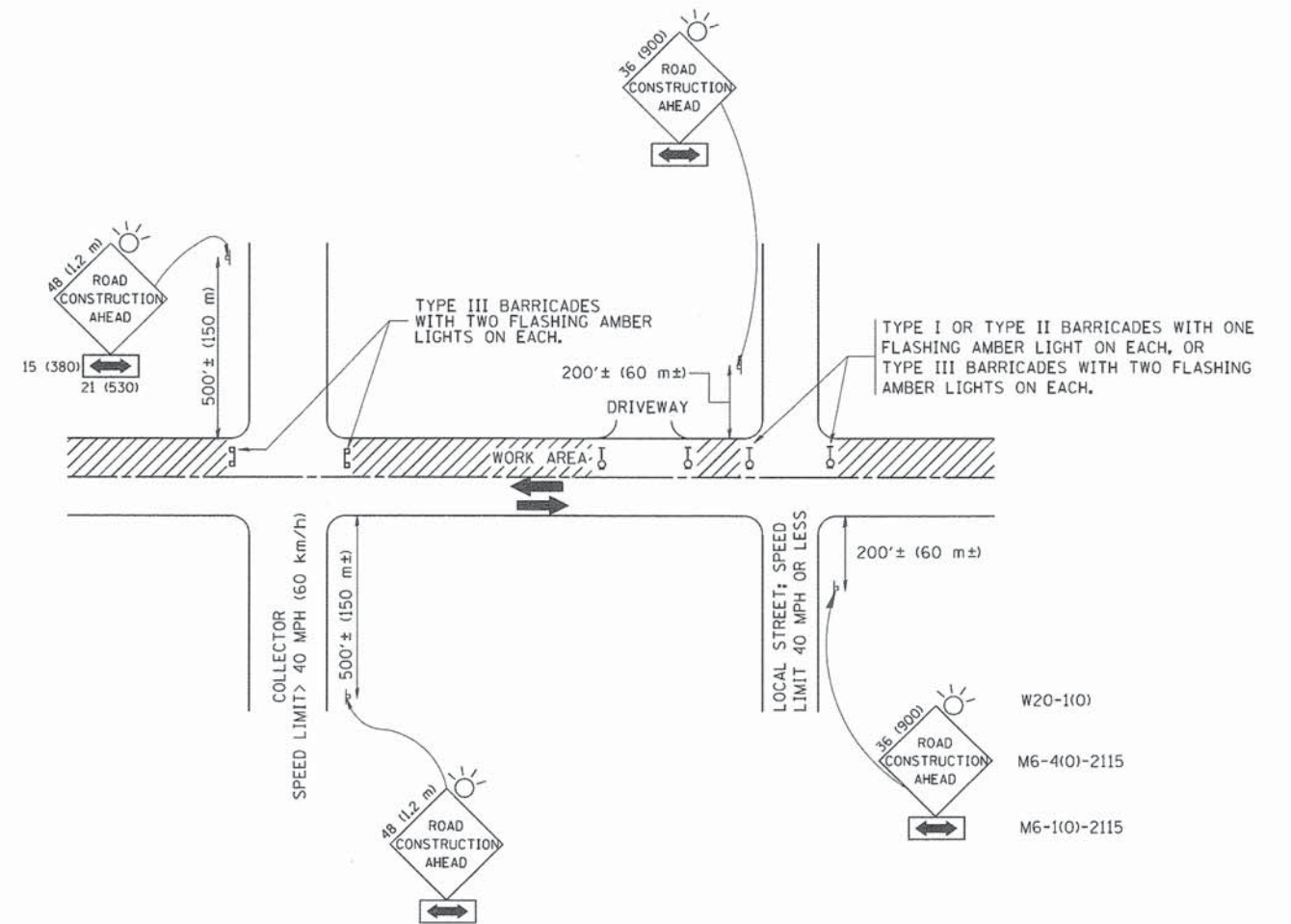
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

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

FIRE HYDRANT TO BE MOVED

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

FILE NAME * W:\diststd\22x34\bd36.dgn	USER NAME * gaglianobt	DESIGNED -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED		F.A. RTE. *	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * 50,0000 ' / IN.	DRAWN -	REVISED - R. SHAH 10-25-94				13-00300-00-PK	DuPage	107	102	
PLOT DATE * 1/4/2008	CHECKED -	REVISED -	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -	REVISED -				CONTRACT NO. 61833				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 - 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 - USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

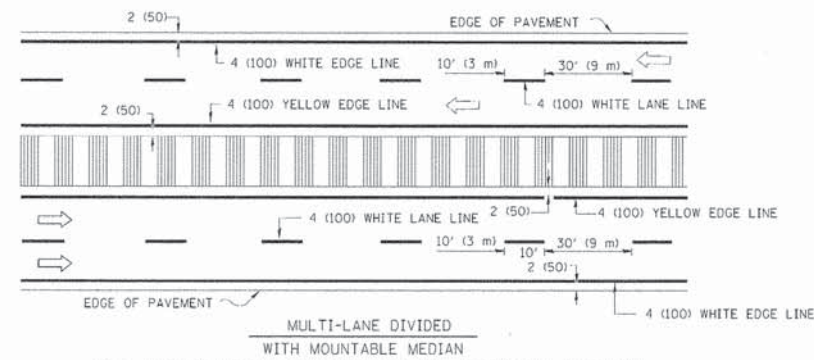
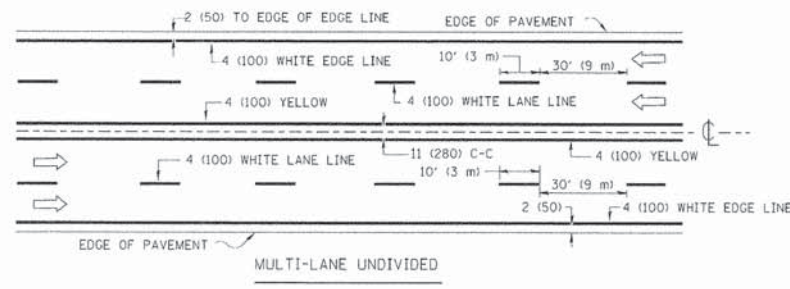
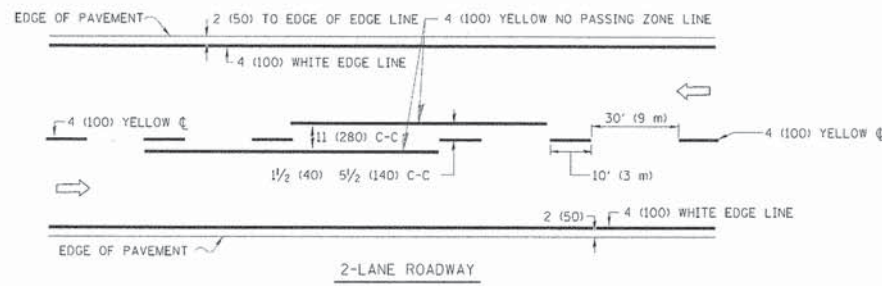
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = W:\diststd\22x34\tcl0.dgn	USER NAME = geglmanbt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50,000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

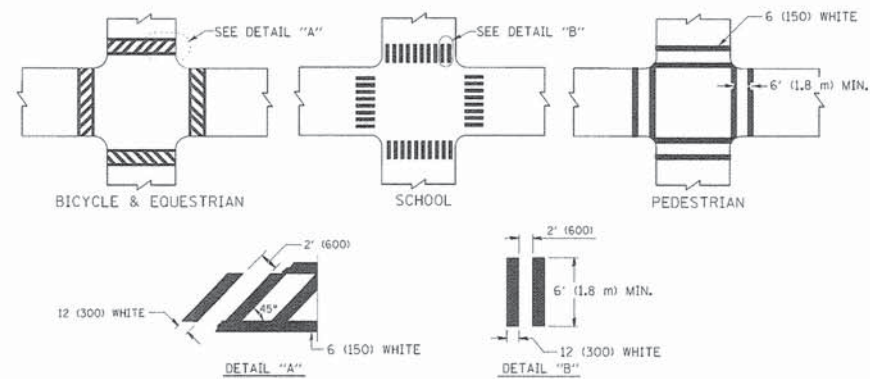
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00300-00-PK	DuPage	107	103
TC-10			CONTRACT NO. 61833	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

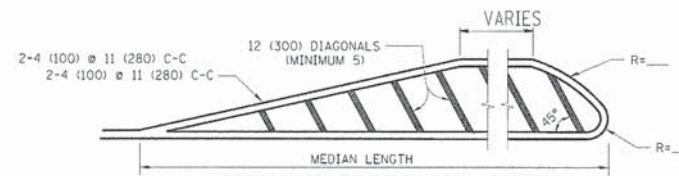
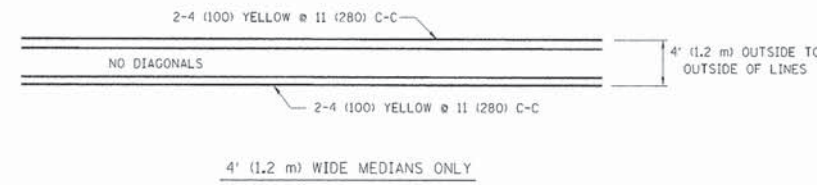


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

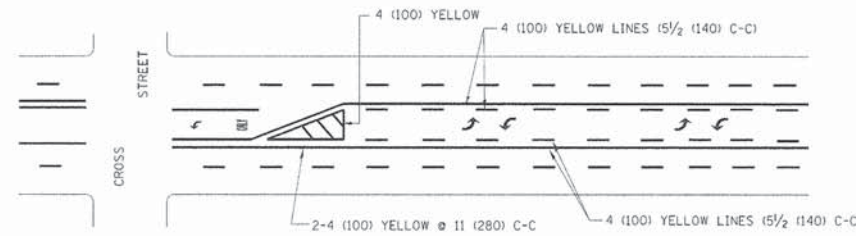


TYPICAL CROSSWALK MARKING



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

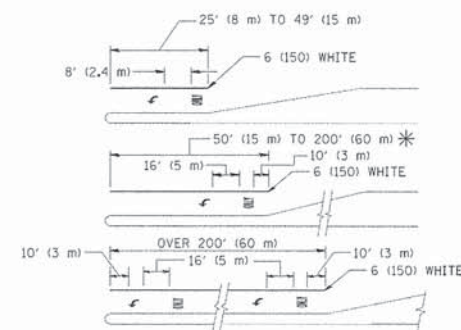
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

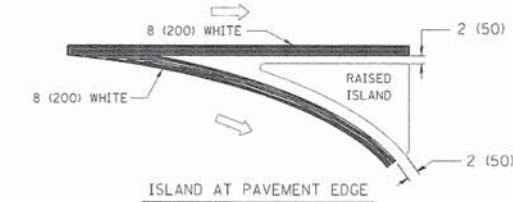
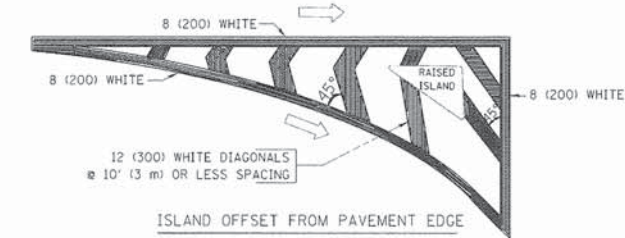
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) AREA OF "RR"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)	SOLID	WHITE	SEE STATE STANDARD 780001
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

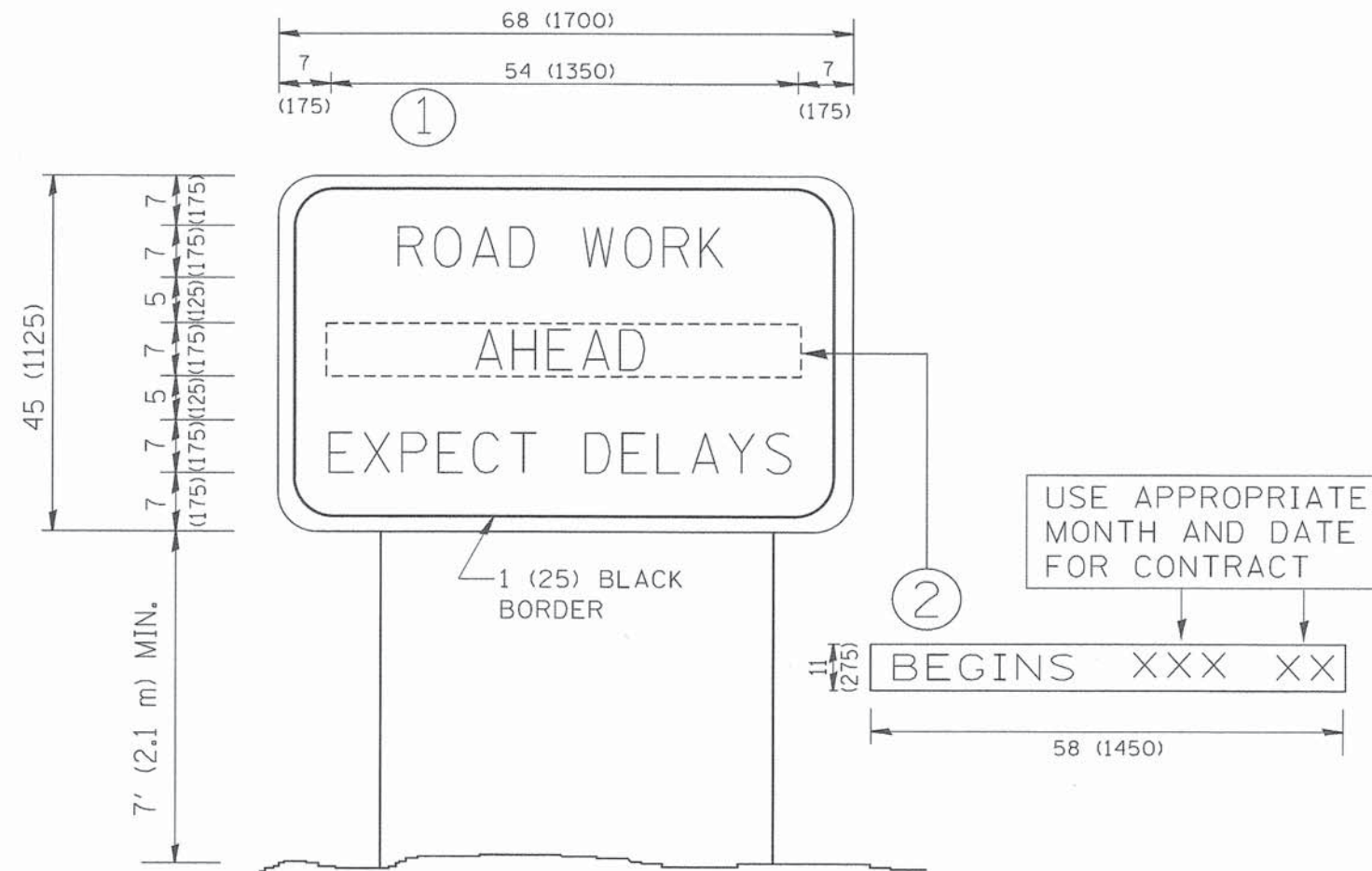
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	PLOT SCALE = 1/8"=1'-0" / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00300-00-PK	DuPage	107	104
	TC-13		CONTRACT NO. 61833	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

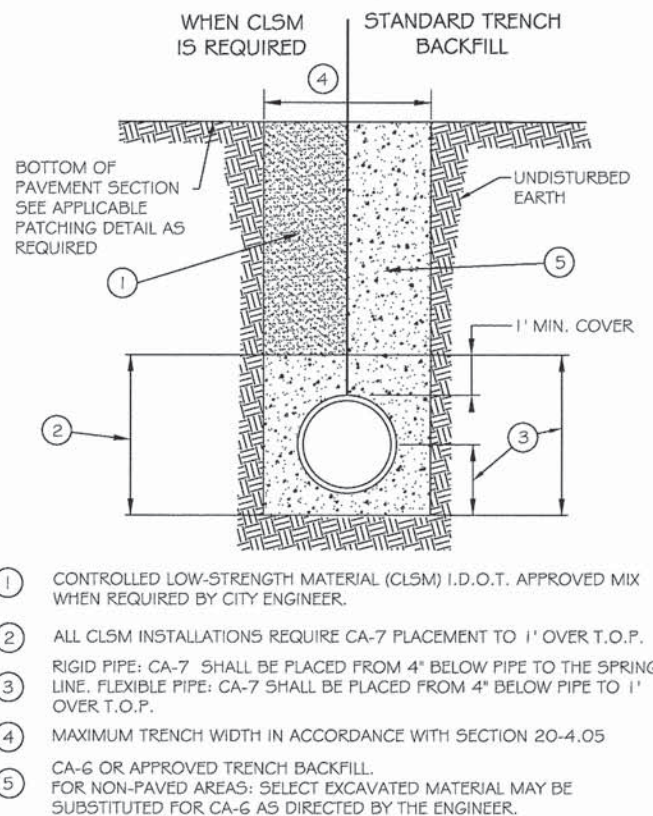


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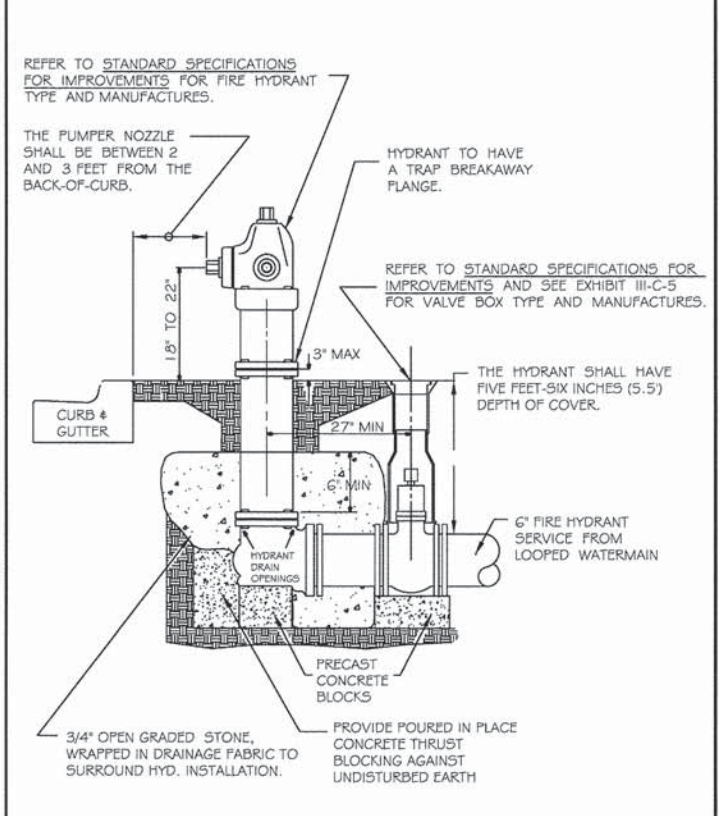
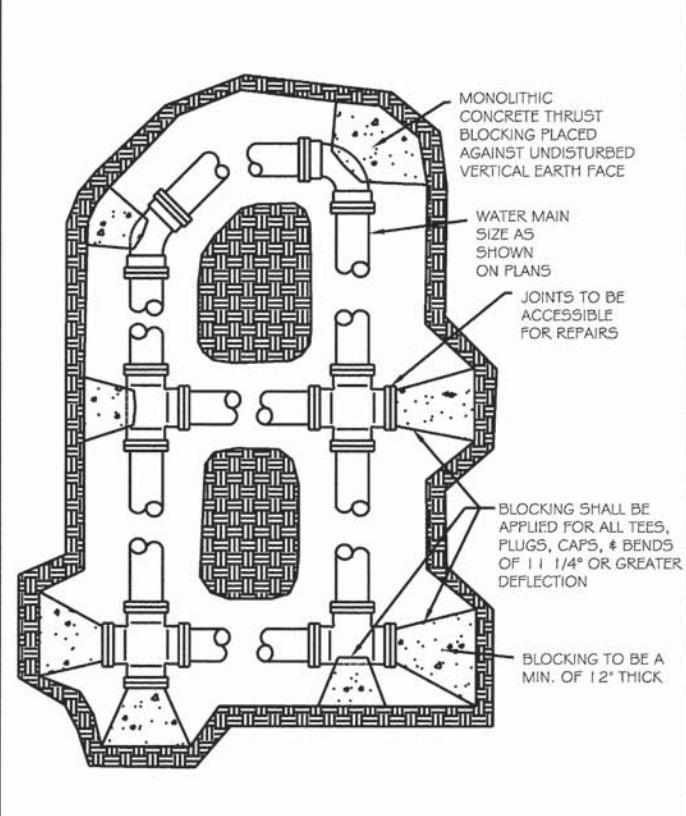
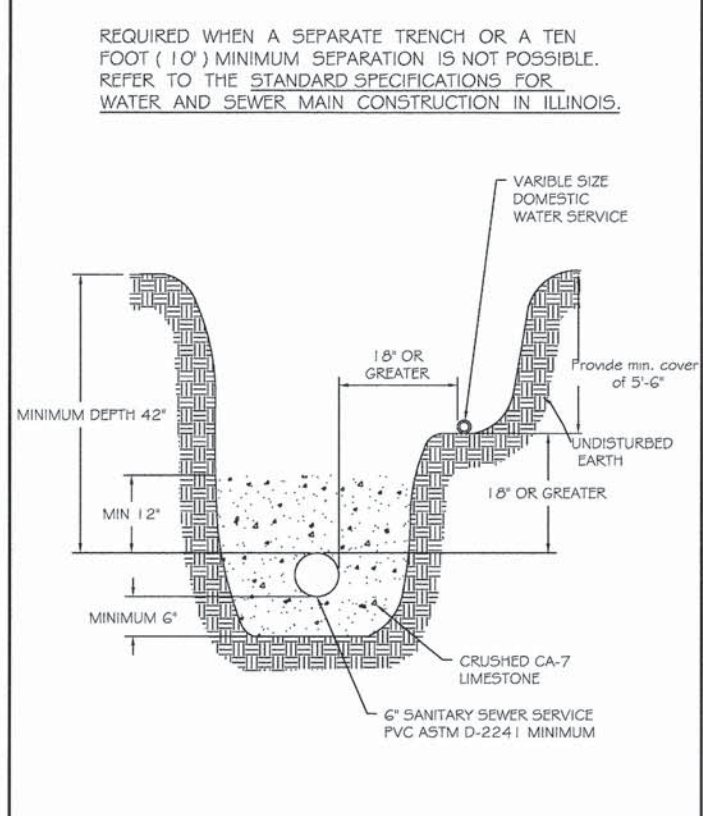
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.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

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

FILE NAME * W:\diststd\22x34\to22.dgn	USER NAME * gaglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000 "/ IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99			13-00300-00-PK	DuPage	107	105	
PLOT DATE * 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61833



- ① CONTROLLED LOW-STRENGTH MATERIAL (CLSM) I.D.O.T. APPROVED MIX WHEN REQUIRED BY CITY ENGINEER.
- ② ALL CLSM INSTALLATIONS REQUIRE CA-7 PLACEMENT TO 1' OVER T.O.P.
- ③ RIGID PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO THE SPRING LINE. FLEXIBLE PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO 1' OVER T.O.P.
- ④ MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05
- ⑤ CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.



REVISIONS

DATE	BY	DC
01/24/13		

SEWER TRENCH DETAIL PAVED & UNPAVED

SCALE: NOT TO SCALE
 CHECKED: LA
 DRAWING NUMBER: EXHIBIT III-A-1
 DATE: 1/04
 DRAWN: DG

REVISIONS

DATE	BY	DC
01/20/11		

SANITARY AND WATER SERVICE SEPARATION

SCALE: NOT TO SCALE
 CHECKED: DF
 DRAWING NUMBER: EXHIBIT III-C-2
 DATE: 1/04
 DRAWN: NM

REVISIONS

DATE	BY	DC
01/20/11		

THRUST BLOCKING

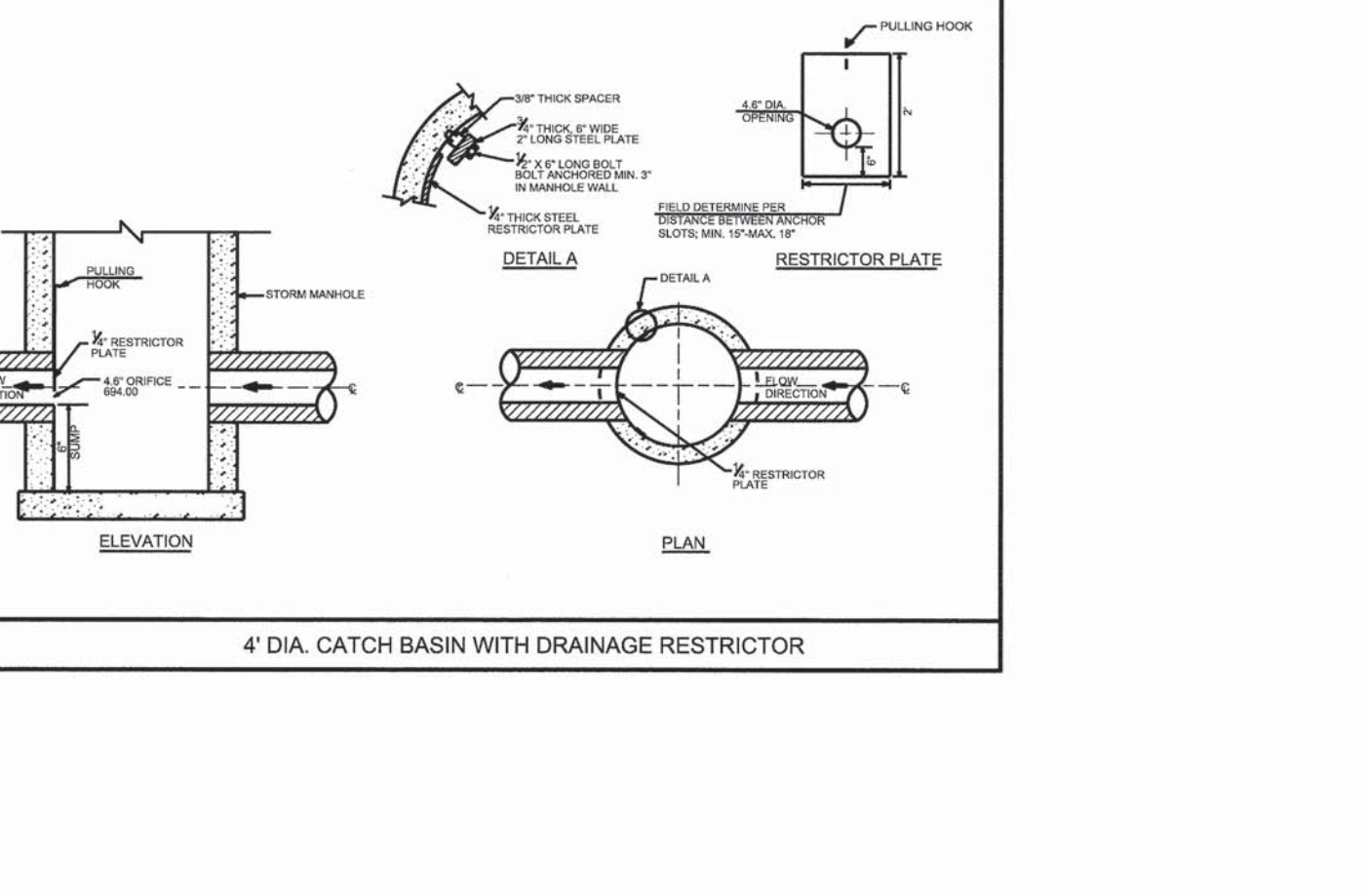
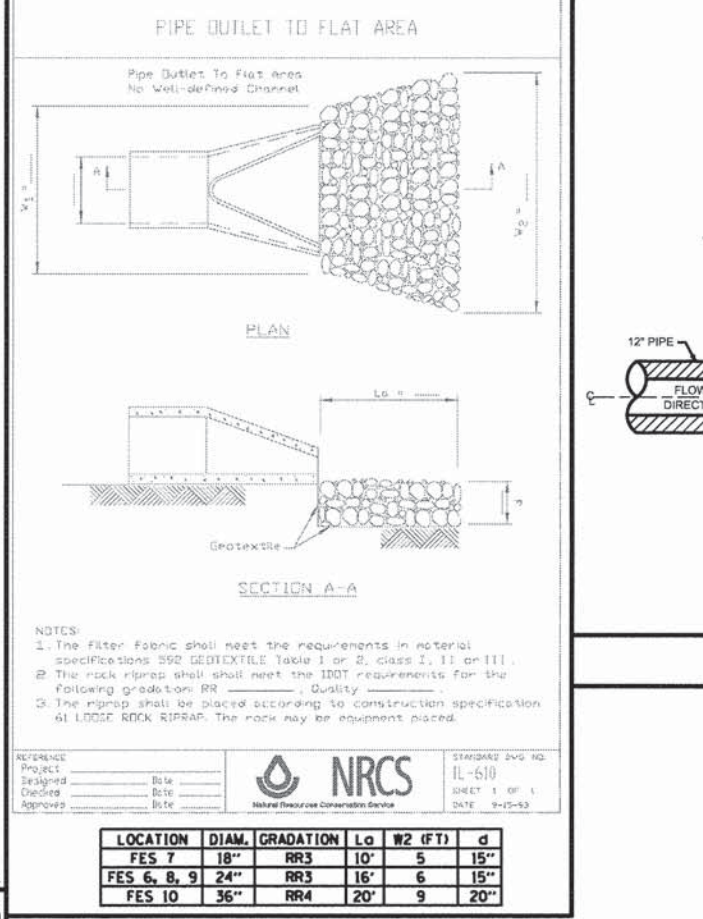
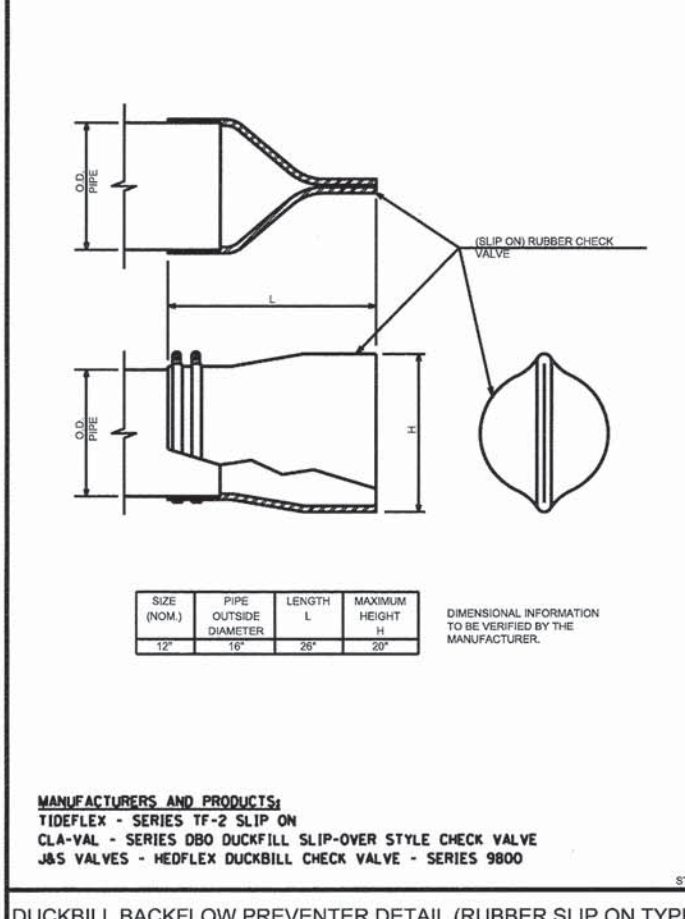
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 DRAWN: NM

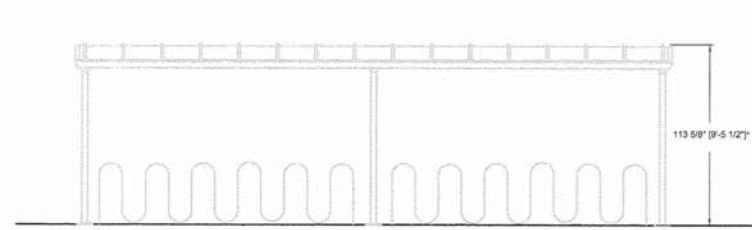
REVISIONS

DATE	BY	DC
8/02	NM	redrawn
1/04	SAZ	redrawn
01/20/11	jhs	Revisions

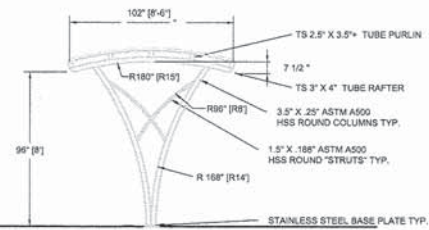
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 DRAWN: NM / SAZ

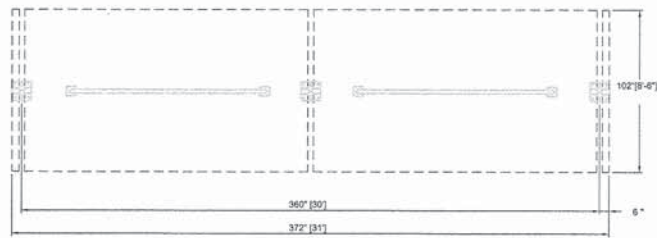




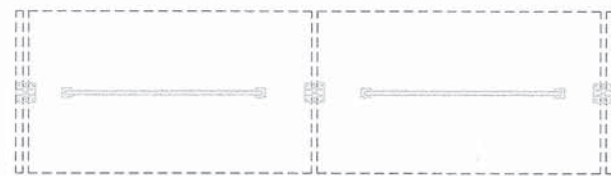
FRONT ELEVATION



SIDE ELEVATION



PLAN VIEW
36\"/>



PLAN VIEW
30\"/>

- NOTES:
- *FRAMEWORK TO BE WELDED AND MECHANICALLY FASTENED STEEL
 - *ALL FASTENERS TO BE STAINLESS STEEL
 - *ROOF GLAZING TO BE: 8MM POLYCARBONATE STRUCTURED SHEET, BATTEN SYSTEM, IN ALUMINUM TRIM. TINT: TRANSLUCENT
 - *STEEL FINISHING:
 - *MEDIA BLAST PREP
 - *NEMEC TNEC ZINC 90-97 PRIMER
 - *NEMEC SERIES N69 HI-BUILD EPOXOLINE 2-PART EPOXY MIDCOAT;
 - *NEMEC SERIES 73 ENDURA-SHIELD TOPCOAT.
 - *ALUMINUM TRIM TO HAVE SAME TOP TWO COATS.
 - *COLOR BLACK
- *ALL DIMENSIONS TO BE FIELD VERIFIED
 *DESIGN IS PRELIMINARY, AND CONCEPTUAL, AND SUBJECT TO CHANGE BASED ON FINAL ENGINEERING PHASE AND CUSTOMER APPROVAL.



V3 Companies
 7325 Jones Avenue
 Woodridge, IL 60517
 830.724.9200 phone
 830.724.9202 fax
 www.v3co.com

USER NAME = bhert
 DESIGNED - CAS
 DRAWN - CAS
 CHECKED - MJR
 DATE - 10-09-15

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 59 METRA STATION
 DETAILS

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	107	107
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				