

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	1
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A40	

04-24-2015 LETTING ITEM 188

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
FAU RTE 1223 (WASHINGTON STREET)
ATKINSON ROAD TO LANCER LANE
BIKE PATH
SECTION 09-00135-11-BT
PROJECT NO. CMM-9003 (561)
LAKE COUNTY
C-91-326-10



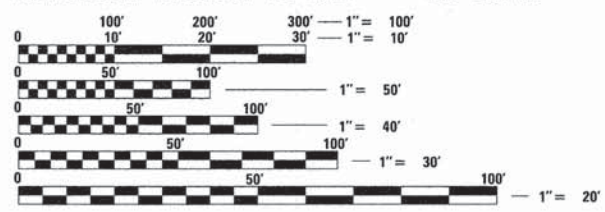
INDEX OF SHEETS

- 1 COVER SHEET
- 2-3 GENERAL NOTES
- 4-5 SUMMARY OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7-10 SCHEDULE OF QUANTITIES
- 11-19 ALIGNMENT AND TIES, PLAT OF HIGHWAYS (BY JORGENSEN SURVEY)
- 20-26 BIKE PATH PLAN AND PROFILE
- 27-29 MAINTENANCE OF TRAFFIC
- 30-32 EROSION CONTROL AND LANDSCAPING
- 33 SIGNAL PLAN
- 34 CABLE PLAN
- 35-41 TRAFFIC SIGNAL DETAILS
- 42 GENERAL PLAN, ELEVATION
- 43-48 STRUCTURAL SHEETS
- 49 RAILING DETAILS
- 50 SOIL BORINGS LOGS
- 51 BD-34 DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.
- 52 TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- 53 TC-22 ARTERIAL ROAD INFORMATION SIGN - CONSTRUCTION DETAILS
- 54 SIDEWALK RAMP - CONSTRUCTION DETAILS
- 55-58A LAKE COUNTY - CONSTRUCTION DETAILS
- 59-69 CROSS SECTIONS - WASHINGTON STREET BIKE PATH

*See General Notes Sheet for list of HIGHWAY STANDARDS

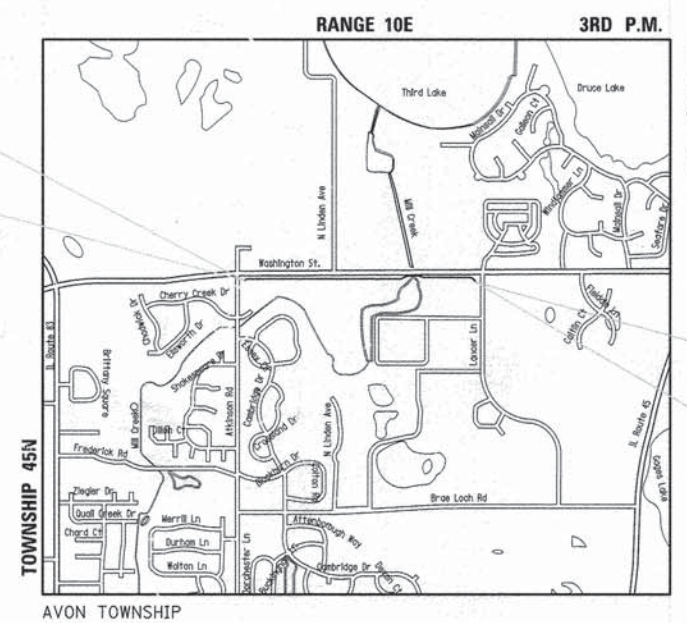
WASHINGTON STREET DESIGN DESIGNATION = MINOR ARTERIAL URBAN
WASHINGTON STREET POSTED SPEED = 45 MPH
WASHINGTON STREET ADT = 18,300 VPD

BIKEPATH DESIGN SPEED = 20 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



PROJECT LOCATED IN THE VILLAGE OF GRAYSLAKE

END OF PROJECT WASHINGTON STREET STA 532+98.9

LOCATION MAP NOT TO SCALE

PROJECT LENGTH:

WASHINGTON STREET (STA 500+00.0 TO STA 532+98.9) - 3,298.9 FT (0.62 MILE) (GROSS & NET)
PROJECT TOTAL - 3,298.9 FT (0.62 MILE) (GROSS & NET)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved: *March 21, 2014*
Paul J. Timp
Lake County Div. of Transportation, County Engineer

Passed: *April 3, 2014*
Christopher Lee
District One Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: *April 4, 2014*
John F. Williams Jr.
Deputy Director of Highways, Region One Engineer

APPLIES TO SHEETS 1-32, 51-69

Reid T. Wagner
REGISTERED P.E., STATE OF ILLINOIS EXPIRES 11/30/2015

REID T. WAGNER
062-056273
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

APPLIES TO SHEETS 42-50

Gregory J. Hatlestad
REGISTERED S.E., STATE OF ILLINOIS EXPIRES 11/30/2015

GREGORY J. HATLESTAD
081-005662
REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

APPLIES TO SHEETS 33-41

Joseph J. Enry
REGISTERED P.E., STATE OF ILLINOIS EXPIRES 11/30/2015

JOSEPH J. ENRY
062-057496
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS



PLANS PREPARED BY:
CIVILTECH
450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143
Tel: 630.773.3900 - Fax: 630.773.3975
www.civiltechinc.com

CONTRACT NO. 61A40

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FEDERAL PROGRAM ENGINEER: FAWAD AQUEEL, P.E. 847-705-4021 SCHAUMBURG, IL
CONSULTANT ENGINEER: REID T. WAGNER, P.E. CIVILTECH ENGINEERING, INC.

GENERAL NOTES

GENERAL

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST I.D.O.T. STANDARD.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, ILLINOIS DEPARTMENT OF TRANSPORTATION (847) 705-4487, AND THE LAKE COUNTY DIVISION OF TRANSPORTATION, 847.377.7458, 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET TO THE SATISFACTION OF THE ENGINEER.
- PROPOSED LINES AND GRADES SHOWN ON THE CONSTRUCTION PLANS REPRESENT FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SAW CUT PAVEMENT AND CURB & GUTTER TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED SAW TO A DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM INVOLVED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF ITEMS BEING REMOVED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE LAKE COUNTY DIVISION OF TRANSPORTATION, AN AUTHORIZED SURVEYOR OR ANY AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- SHOULD THE CONTRACTOR DESIRE TO OBTAIN WATER FOR CONSTRUCTION PURPOSES FROM THE LOCAL AREA, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING ARRANGEMENTS. LAKE COUNTY PUBLIC WORKS MAY INSTRUCT THE CONTRACTOR WHERE A POTABLE WATER SUPPLY FROM A HYDRANT NEAR THE WORK SITE IS LOCATED. THE CONTRACTOR IS RESPONSIBLE FOR THE TRANSPORTATION OF THE WATER TO THE SITE WHERE NEEDED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS 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.
- TEMPORARY TOILET - THE CONTRACTOR SHALL PROVIDE A TEMPORARY TOILET FACILITY FOR THE USE OF ALL CONTRACTORS' PERSONNEL EMPLOYED ON THE WORK, AND SHALL MAINTAIN SAME IN PROPER SANITARY CONDITION. THIS FACILITY MAY NOT BE LOCATED NEAR A CREEK. AT COMPLETION, THE FACILITY SHALL BE REMOVED AND THE PREMISES LEFT CLEAN. THE ENGINEER SHALL APPROVE THE LOCATION OF THE TEMPORARY TOILET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF MOBILIZATION.
- IN ADDITION TO THE REQUIREMENTS OF THE SPECIAL PROVISION FOR CONSTRUCTION LAYOUT STAKES (ILLINOIS DEPARTMENT OF TRANSPORTATION CHECK SHEET #10), THE CONTRACTOR SHALL REESTABLISH, MONUMENT, AND TIE ALL CONTROL POINTS USED TO COMPLETE THE WORK AS SPECIFIED INCLUDING ALL PI'S, PC'S, PT'S, AND POT'S. THE TYPE OF MONUMENTATION USED WILL BE PK NAILS, IRON PIPES, RR SPIKES OR AS APPROVED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "CONSTRUCTION LAYOUT".
- WHEN REMOVING CURB AND GUTTER, PAVEMENT OR ANY OTHER STRUCTURE, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO ENSURE THAT THERE WILL BE NO DAMAGE TO UNDERGROUND PUBLIC OR PRIVATE UTILITIES. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL CONCRETE BREAKER BE ALLOWED.
- PROTECTIVE COAT SHALL BE APPLIED IN ALL CASES REGARDLESS OF THE CALENDAR DATE LIMITATIONS CONTAINED IN ARTICLE 420.18. THE PROTECTIVE COATING SHALL BE APPLIED TO THE EXPOSED SURFACES OF THE PORTLAND CEMENT CONCRETE PAVEMENT, CONCRETE SIDEWALK, AND CONCRETE CURB AND GUTTER. PORTLAND CEMENT CONCRETE CURING SHALL BE LIMITED TO METHODS SPECIFIED IN ARTICLE 1020.13 (A) [1], [2] AND [3].
- THE THICKNESSES OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE BINDER OR BASE UPON WHICH THE HOT-MIX ASPHALT MATERIALS ARE PLACED.
- CONCRETE WASHOUT FACILITY SHOULD BE PROVIDED IN THE FIELD BY THE CONTRACTOR. THE COST OF THIS FACILITY SHALL BE INCLUDED IN THE CONCRETE WORK ITEMS. ALL PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE CONCRETE WORK ITEMS.
- ALL EARTHWORK EXCAVATION IS TO BE REGRADED/PLACED ON SITE. THERE IS NO HAUL-OFF ANTICIPATED. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION", "TOPSOIL EXCAVATION AND PLACEMENT", AND "STRUCTURE EXCAVATION". SHOULD THE CONTRACTOR ENCOUNTER UNSUITABLE SOILS, THE REMOVAL SHALL BE PAID FOR AS "EARTH EXCAVATION".

STORM SEWERS, STRUCTURES, AND UTILITIES

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND APPLICABLE ARTICLES INCLUDED IN THE "STANDARD SPECIFICATIONS" INCLUDING, BUT NOT LIMITED TO, ARTICLES 105.07 AND 107.31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT AND/OR FOR DELAYS CAUSED BY UTILITY RELOCATION OR ADJUSTMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING STORM & SANITARY SEWERS AND WATER MAINS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT OR RELOCATION OF THEIR FACILITIES, IF NECESSARY.
- THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY FOR EACH STRUCTURE TO SET THE FRAME AND GRATE IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF STRUCTURE.
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. THE ADJUSTMENT OF FRAMES ON ALL NEW STRUCTURES TO THE FINAL ELEVATIONS SHALL BE INCLUDED IN THE COST OF THE NEW STRUCTURES. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE NEW STRUCTURES.
- 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. ALL JOINTS IN CONCRETE SEWER PIPE SHALL BE SEALED WITH RUBBER GASKETS, PREFORMED JOINT SEALANTS, OR EXTERNAL SEALING BANDS. NO MASTIC JOINT SEALER WILL BE ALLOWED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE STORM SEWER.
- THE CONTRACTOR SHALL MAINTAIN FLOWS THROUGH EXISTING SEWER SYSTEMS AT ALL TIMES. THE EXISTING STRUCTURES SHALL BE INSPECTED BEFORE CONSTRUCTION STARTS. AS DIRECTED BY THE ENGINEER, ANY ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE DRAINAGE ITEM BEING INSTALLED.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR STRUCTURES. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET. HE SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE DRAINAGE ITEMS BEING INSTALLED.
- HMA OR CONCRETE PAVEMENT CROSSINGS REMOVED DUE TO STORM SEWER OR CULVERT WORK SHALL NOT BE LEFT IN GRAVEL OVERNIGHT. THIS INCLUDES THE MAIN ROADS, SIDE STREETS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND PARKING AREAS. TEMPORARY HMA PAVEMENT MAY BE USED IN LIEU OF IMMEDIATE PAVEMENT REPLACEMENT. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE PROPOSED PIPE.
- ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY MANHOLES, CATCH BASIN, INLET, VALVE VAULT, OR METER VAULT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: ALL LIDS TO BE USED ON STORM SEWER STRUCTURES SHALL BEAR THE WORD "STORM". ALL LIDS TO BE USED ON SANITARY SEWER STRUCTURES SHALL BEAR THE WORD "SANITARY". ALL LIDS TO BE USED ON WATER SYSTEM STRUCTURES SHALL BEAR THE WORD "WATER". ALL OPEN GRATES SHALL INCLUDE THE WORDING "DUMP NO WASTE, DRAINS TO WATERWAYS". THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE STRUCTURE BEING CONSTRUCTED, ADJUSTED OR RECONSTRUCTED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE STRUCTURE BEING CONSTRUCTED, ADJUSTED OR RECONSTRUCTED.
- THE CONTRACTOR SHALL BE AWARE THAT AT TIMES THE ENGINEER MAY REQUIRE A CHANGE IN STORM SEWER ELEVATION DUE TO A UTILITY LINE OR OTHER OBSTRUCTION. IF SUCH A GRADE CHANGE DOES NOT ALTER THE PIPE CLASSIFICATION, THE ADDITIONAL EXCAVATION OR SHEETING REQUIRED SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE STORM SEWER. HOWEVER, IF THE REVISED GRADE RESULTS IN A CHANGE IN PIPE CLASSIFICATION, PAYMENT WILL BE FOR THE REVISED TYPE OF STORM SEWER.

HIGHWAY STANDARDS

BY	DATE	REVISIONS
PLANNED		
DESIGNED		
DRAWN		
CHECKED		
DATE		

000001	-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001	-02	AREAS OF REINFORCEMENT BARS
280001	-07	TEMPORARY EROSION CONTROL SYSTEMS
424021	-03	DEPRESSED CORNER FOR SIDEWALKS
542301	-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311	-05	TRAVERSABLE PIPE GRATE
602001	-02	CATCH BASIN TYPE A
602301	-04	INLET - TYPE A
602401	-03	MANHOLE TYPE A>>
602701	-02	MANHOLE STEPS
604001	-04	FRAME AND LIDS TYPE 1
604036	-03	GRATE TYPE 8
604091	-03	FRAME AND GRATE TYPE 24
606001	-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001	-10	STEEL PLATE BEAM GUARDRAIL
631031	-13	TRAFFIC BARRIER TERMINAL, TYPE 6
635011	-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101	-04	OFF -RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
701106	-02	OFF -RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701426	-08	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEED ≥ 45 MPH
701601	-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701602	-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701	-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901	-04	TRAFFIC CONTROL DEVICES
814001	-02	HANDHOLES
873001	-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001	-10	CONCRETE FOUNDATION DETAILS
880006	-01	TRAFFIC SIGNAL MOUNTING DETAILS
BD-34		DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY SPL
TC-14		TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-22		ARTERIAL ROAD INFORMATION SIGN

LCDOT HIGHWAY STANDARDS

BY	DATE	REVISIONS
PLANNED		
DESIGNED		
DRAWN		
CHECKED		
DATE		

LC 2050		TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH
LC 2051		PERIMETER EROSION BARRIER INSTALLATION
LC 2200		VEGETATION MAINTENANCE REQUIRED CLEARANCE FOR 10' BIKE PATH
LC 4053		TYPICAL SECTION 10' HOT-MIX ASPHALT BIKE PATH
LC 4054		TYPICAL SECTION 10' HOT-MIX ASPHALT BIKE PATH IN VICINITY OF CURB & GUTTER
LC 4100		TYPICAL MINOR ACCESS (PRIVATE ENTRANCE)
LC 4201		CURB RAMPS WITH TRAFFIC SIGNAL POSTS & MAST ARMS
LC 4202		CONCRETE WASHOUT FACILITIES
LC 5402		JOINT TIES FOR CONCRETE PIPE
LC 6020		SUB -SURFACE DRAINS
LC 6003		DRAINAGE STRUCTURE RIM ELEVATIONS AND OFFSETS
LC 6310		TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)
LC 6601		ORNAMENTAL FENCE CLASSIC THREE RAIL (ONE MFGR'S DETAILS)
LC 6621		BIKE PATH APPROACH GUARDRAIL ADJUSTMENT
LC 7003		URBAN LANE CLOSURE MULTILANE INTERSECTION
LC 7203		WORK ZONE SPEED LIMIT SIGNING DIAGRAM

GENERAL NOTES

STORM SEWERS, STRUCTURES, AND UTILITIES (CONTINUED)

25. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING EXCAVATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A DEWATERING PLAN IF NECESSARY IN COMPLIANCE WITH NPDES REGULATIONS THAT SHALL BE SUBMITTED TO THE ENGINEER, AND THE STORMWATER MANAGEMENT COMMISSION, FOR APPROVAL. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID FOR DEWATERING.
26. REMOVAL OF FLARED END SECTION TO BE INCLUDED IN THE COST OF STORM SEWER REMOVAL.

TREE REMOVAL, CLEARING AND HEDGE REMOVAL

27. ALL TREES ARE DESIGNATED TO BE SAVED UNLESS OTHERWISE NOTED ON THE PLANS, AND SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE 201 OF THE STANDARD SPECIFICATIONS.
28. ALL CLEARING AND REMOVAL OF BUSHES, HEDGES AND TREES UNDER 6" IN DIAMETER SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION".
29. TEMPORARY FENCE SHALL BE PLACED AROUND ALL TREES THAT ARE TO BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS FOR MORE DETAIL.

SIGNING, STRIPING & LANDSCAPING

30. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET OR STORE ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS. THIS WORK WILL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT'S TRAFFIC CONTROL ITEMS.
31. WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SEEDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL PROVISIONS.
32. THE CONTRACTOR SHALL ADHERE TO LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
33. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR PERIODS OF SHORT DURATION.
34. THE CONTRACTOR SHALL PROVIDE AS-BUILT DATA TO DOCUMENT THE FLOOD PLAIN FILL. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER TO COLLECT DATA AND DOCUMENT WITH PLANS AND CROSS -SECTIONS THE RELATED FLOODPLAIN IMPACTS (FILL) TO THE LAKE COUNTY STORMWATER MANAGEMENT COMMISSION. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF MOBILIZATION.
35. ALL SIGNS WILL BE INSTALLED BY LCDOT FORCES. EXISTING SIGNS TO BE REMOVED SHOULD BE TAKEN DOWN BY THE CONTRACTOR AND SET ASIDE FOR LCDOT TO PICKUP.

SURVEY

36. VERTICAL CONTROL REFERENCED TO NGVD 1929. ELEVATIONS ARE BASED ON THE FOUND LAKE COUNTY DIVISION OF TRANSPORTATION BENCH MARK 1-41A, PUBLISHED NGVD '29 ELEVATION 782.03

BENCHMARK TABLE (BASED ON BIKE PATH ALIGNMENT)			
NUMBER	STA & OFFSET	DESCRIPTION	ELEVATION
T.B.M. #1	500+00.00 125.25' LT	RAILROAD SPIKE (SET) IN SECOND POWER POLE SOUTH OF WASHINGTON STREET ON THE WEST SIDE OF ATKINSON ROAD	778.39
T.B.M. #2	517+32.32 16.00' RT	RAILROAD SPIKE (SET) IN THE LAST POWER POLE WEST OF LANCER LANE ON SOUTH SIDE OF WASHINGTON STREET.	774.62
T.B.M. #3	532+30.79 6.29' RT	RAILROAD SPIKE (SET) IN POWER POLE WITH LIGHT IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF WASHINGTON STREET & LANCER LANE.	775.49

37. BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM NAD 83(2007) EAST ZONE.
38. SURFACE COORDINATES ARE SHOWN.

POINTS OF CONTACT:

LAKE COUNTY DIVISION OF TRANSPORTATION
MR. THOMAS SOMODJI
PROJECT MANAGER
600 W. WINCHESTER ROAD
LIBERTYVILLE, IL 60048
PH: (847) 377.7485
tsomodji@lakecountyil.gov

LAKE COUNTY PUBLIC WORKS
MR. GORDON WHITE, P.E.
ENGINEERING SUPERVISOR
650 WINCHESTER ROAD
LIBERTYVILLE, IL 60048
PH: (847) 377.7500
gwhite2@lakecountyil.gov

WEST SHORE PIPELINE
MR. BILL O'MALLEY
3400 S. BADGER ROAD
ARLINGTON HEIGHTS, IL 60005
PH: (847) 878.3428

NATURAL GAS PIPELINE COMPANY OF AMERICA LLC
MR. GREG SMITH
370 VAN GORDON STREET
LAKEWOOD, CO 80228
PH: (303) 914-7848
greg_smith@kindermorgan.com

COMMONWEALTH EDISON COMPANY
MS. TERRI BLECK
MANAGER, PUBLIC RELOCATION GROUP
1500 FRANKLIN BOULEVARD
LIBERTYVILLE, IL 60048
PH: (847) 816.5239
terribleck@comed.com
terribleck@exeloncorp.com

COMCAST CABLE
MR. ROBERT SCHULTER
MANAGER
668 INDUSTRIAL DRIVE
ELMHURST, IL 60126
PH: (630) 600.6347
bob.schulter@cable.comcast.com

AT&T CORP.
MR. HECTOR GARCIA
LEGAL MANDATE ENGINEERING
1000 COMMERCE DRIVE, FLOOR 2
OAK BROOK, IL 60523
PH: (630) 573-5703
hg2929@att.com

NORTH SHORE GAS
MR. JAY HAMMER
3001 GRAND AVE.
WAUKEGAN, IL 60085
PH: (847) 263.4678

VILLAGE OF GRAYSLAKE
PUBLIC WORKS DEPARTMENT
585 BERRY AVENUE
GRAYSLAKE, IL 60030
(847) 223.8515

PLAN	BY	DATE
DESIGNED	JRR	
DRAWN	JRR	
CHECKED	RTM	
DATE	03/24/2014	

PROFILE	BY	DATE
DESIGNED	JRR	
DRAWN	JRR	
CHECKED	RTM	
DATE	03/24/2014	

PLAN	DATE
BY	
REVISED	
ALIGNED	
CHECKED	
DATE	
NO.	

PROFILE	DATE
BY	
REVISED	
PLOTTED	
CHECKED	
DATE	
NO.	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0028 ROADWAY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	50	50
20101000	TEMPORARY FENCE	FOOT	200	200
20101200	TREE ROOT PRUNING	EACH	12	12
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	10	10
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	2	2
20200100	EARTH EXCAVATION	CU YD	131	131
20400800	FURNISHED EXCAVATION	CU YD	2,873	2,873
20700220	POROUS GRANULAR EMBANKMENT	CU YD	75	75
20800150	TRENCH BACKFILL	CU YD	9	9
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,829	1,829
25000210	SEEDING, CLASS 2A	ACRE	1.75	1.75
25000310	SEEDING, CLASS 4	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	158	158
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	158	158
25100630	EROSION CONTROL BLANKET	SQ YD	7,547	7,547
25200200	SUPPLEMENTAL WATERING	UNIT	10	10
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	40	40
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	175	175
28000305	TEMPORARY DITCH CHECKS	FOOT	140	140
28000400	PERIMETER EROSION BARRIER	FOOT	3,226	3,226
28000510	INLET FILTERS	EACH	19	19
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	172	172
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	68	68
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	3,833	3,833
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	648	648

- ^ DENOTES SPECIALTY ITEM
- ▲ DENOTES CONSTRUCTION TYPE CODE 0042
- * DENOTES SPECIAL PROVISION

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0028 ROADWAY
42001300	PROTECTIVE COAT	SQ YD	484	484
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	610	610
42400800	DETECTABLE WARNINGS	SQ FT	24	24
44000100	PAVEMENT REMOVAL	SQ YD	226	226
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	409	409
44201773	CLASS D PATCHES, TYPE I, 11 INCH	SQ YD	20	20
50102400	CONCRETE REMOVAL	CU YD	11.5	11.5
50200100	STRUCTURE EXCAVATION	CU YD	333	333
50300225	CONCRETE STRUCTURES	CU YD	89.9	89.9
50300300	PROTECTIVE COAT	SQ YD	172	172
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8,050	8,050
50901750	PARAPET RAILING	FOOT	260	260
54261324	CONCRETE END SECTION, STANDARD 542001, 24", 1:3	EACH	2	2
54260311	TRAVERSABLE PIPE GRATE	FOOT	20	20
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	155	155
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	56	56
55100500	STORM SEWER REMOVAL 12"	FOOT	23	23
55100900	STORM SEWER REMOVAL 18"	FOOT	12	12
55101200	STORM SEWER REMOVAL 24"	FOOT	14	14
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	109	109
60205040	CATCH BASINS, TYPE A, 5-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1
60218400	MANHOLES, TYPE A, 4-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60221700	MANHOLES, TYPE A, 5-DIAMETER, TYPE 8 GRATE	EACH	1	1
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1
60264140	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1



DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	4
CONTRACT NO. 61A40			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

DATE	
BY	
PLAN	
NO.	
NOTES	
PLANNING	
DESIGNED	
CHECKED	
DATE	

DATE	
BY	
PROFILE	
NO.	
NOTES	
PLANNING	
DESIGNED	
CHECKED	
DATE	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0028 ROADWAY
60255500	MANHOLES TO BE ADJUSTED	EACH	5	5
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1
60500050	REMOVING CATCH BASINS	EACH	1	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	523	523
^ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1
^ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1
^ 63200310	GUARDRAIL REMOVAL	FOOT	288	288
67100100	MOBILIZATION	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3
^ 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	768	768
* ^ 78200420	GUARDRAIL MARKERS, TYPE B	EACH	4	4
* ^ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1
^ 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	16	16
* ^ 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
^ 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	5	5
^ 87900200	DRILL EXISTING HANDHOLE	EACH	5	5
^ 89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	1	1
^ 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1	1
^ 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2	2
^ 89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1	1
^ 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	362	362
* ^ 89502376	REBUILD EXISTING HANDHOLE	EACH	5	5
* ^ 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5	5
^ A2005016	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND	EACH	4	4
^ A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5

^ DENOTES SPECIALTY ITEM
 ▲ DENOTES CONSTRUCTION TYPE CODE 0042
 * DENOTES SPECIAL PROVISION

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0028 ROADWAY
^ A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4
* X0426200	DEWATERING	L SUM	1	1
* X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	50	50
* ^ X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	100	100
* X2800302	TEMPORARY DITCH CHECKS (SPECIAL)	FOOT	140	140
* 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	8,625	8,625
* X6013600	PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	1,262	1,262
* X6370050	CONCRETE BARRIER WALL (SPECIAL)	FOOT	260	260
* X6700405	ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	6	6
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
* ^ XX001249	ORNAMENTAL FENCE	FOOT	237	237
* ^ XX003668	PRECONSTRUCTION VIDEO TAPING	L SUM	1	1
* XX006658	FLOCCULATION LOGS	EACH	5	5
* XX006659	FLOCCULATION POWDER	POUND	15	15
* ^ XX006698	TREE PROTECTION AND PRESERVATION	EACH	10	10
* ^ XX007023	STAINING CONCRETE STRUCTURES	SQ YD	139	139
* XX008003	FORM LINER TEXTURED SURFACE, SPECIAL	SQ FT	672	672
* Z0022800	FENCE REMOVAL	FOOT	120	120
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
* Z0046306	PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	118	118
▲ * Z0076600	TRAINEES	HOUR	500	500
▲ * Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500



DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

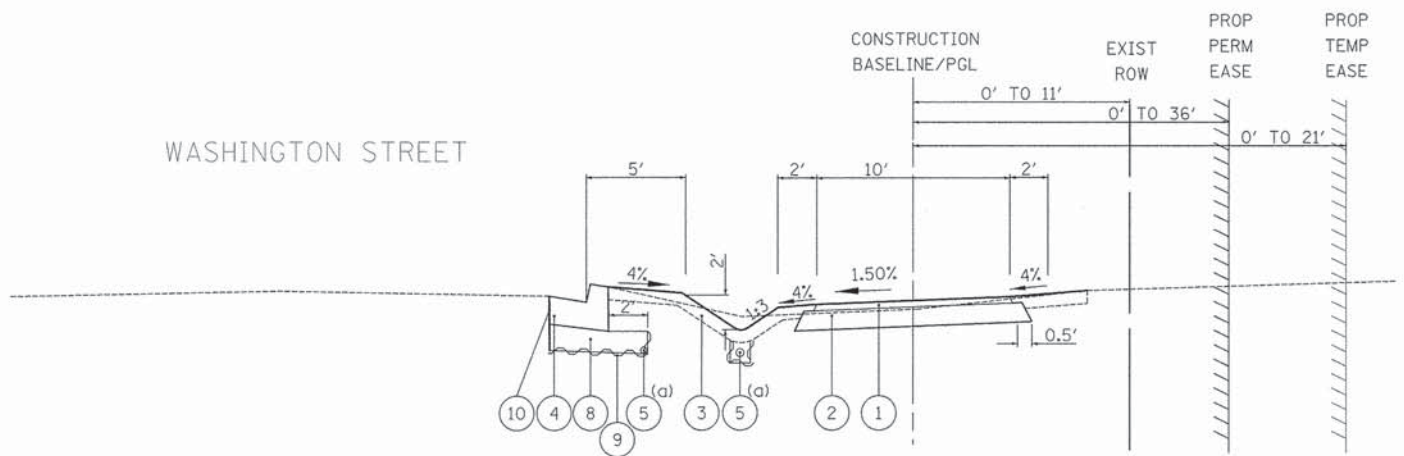
SUMMARY OF QUANTITIES

SHEET NO. 2 OF 2 SHEETS

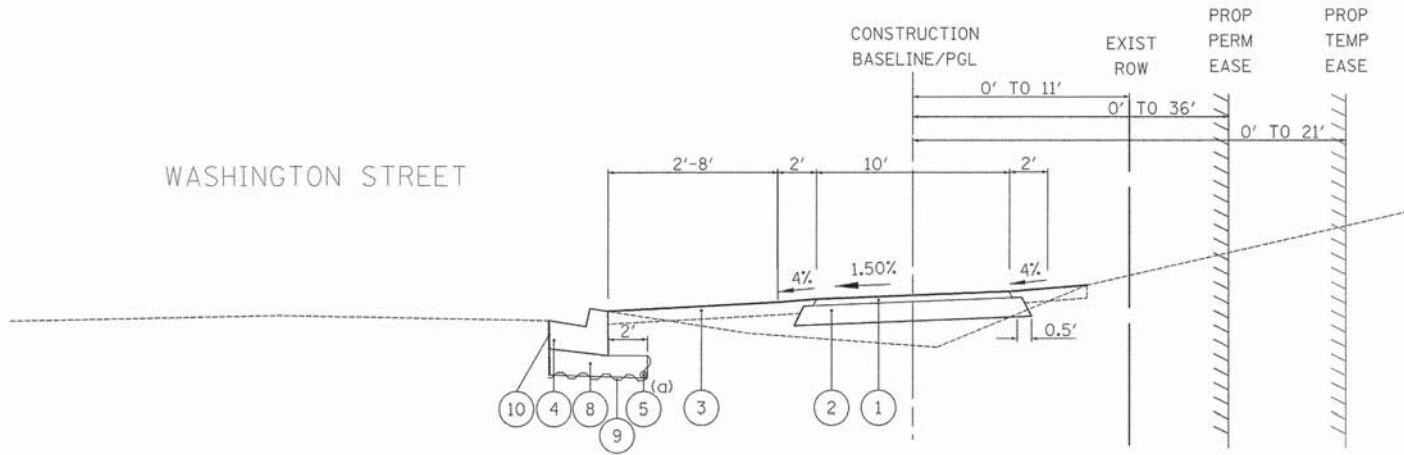
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A40	

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

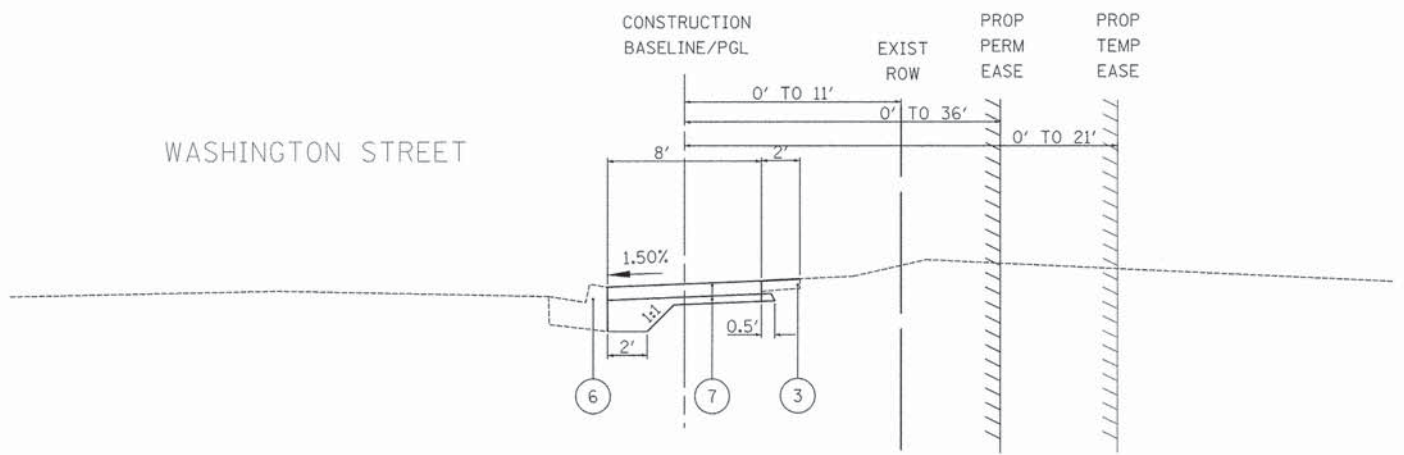
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	



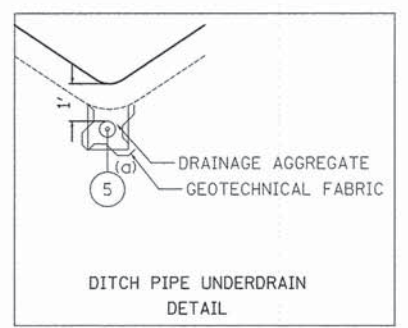
PROPOSED TYPICAL SECTION
 STA 500+00.0 TO STA 505+50.0, WASHINGTON STREET
 (a) SEE PLAN AND PROFILE SHEETS FOR UNDERDRAIN LOCATIONS.



PROPOSED TYPICAL SECTION
 STA 505+50.0 TO STA 531+88.9, WASHINGTON STREET
 (a) SEE PLAN AND PROFILE SHEETS FOR UNDERDRAIN LOCATIONS.
 10' TO 8' TRANSITION OCCURS BETWEEN STA 531+20.5 TO STA 531+88.9



PROPOSED TYPICAL SECTION
 STA 531+88.9 TO STA 532+98.9, WASHINGTON STREET



PROPOSED LEGEND

- ① PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 3"
- ② PROPOSED AGGREGATE BASE COURSE, TYPE B 6"
- ③ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM) AND SEEDING, CLASS 2A
- ④ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SEE PLAN AND PROFILE SHEETS FOR LIMITS)
- ⑤ PROPOSED PIPE UNDERDRAINS, 4" (MODIFIED) (AGGREGATE AND FABRIC FOR THE TRENCH WITHIN THE DITCH SECTION USED FOR UNDERDRAINS WILL NOT BE MEASURED SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF "PIPE UNDERDRAINS, 4" (MODIFIED)")
- ⑥ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑦ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5" WITH AGGREGATE BASE COURSE, TYPE B (4 INCH MIN.)
- ⑧ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑨ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑩ SAW CUT, (TYP) (SEE PLAN AND PROFILE FOR LIMITS)

NOTES:

- REFER TO PLANS FOR WALL DETAILS.
- 1. SINGLE FACE CONCRETE BARRIER WALL WITH PARAPET RAILING AND CONCRETE BARRIER BASE STA 522+02.5 TO STA 524+63.3
 - 2. EXISTING CAST-IN-PLACE CANTILEVER T-WALL ON SPREAD FOOTINGS STA 523+02.5 TO STA 524+22.5
 - 3. PROPOSED CAST-IN-PLACE CANTILEVER T-WALL ON SPREAD FOOTINGS STA 522+02.5 TO STA 523+02.5 AND STA 524+22.5 TO STA 524+63.3

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
BIKE PATH PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 3" (IN 1 LIFT)	4% @ 50 Gyr.	Qc/Qa
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2-1/2" (IN 1 LIFT)	4% @ 50 Gyr.	Qc/Qa

QMP Options: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PPP)

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

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

FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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

DATE	
BY	
SUBMITTED	
PLANNING	
DESIGNED	
CHECKED	
DATE	
NO.	

DATE	
BY	
SUBMITTED	
PLANNING	
DESIGNED	
CHECKED	
DATE	
NO.	

3 SCHEDULE OF EARTHWORK QUANTITIES										
STATION	DISTANCE	EARTH EXCAVATION	TOPSOIL EXCAVATION AND PLACEMENT	FURNISHED EXCAVATION	EARTH EXCAVATION	TOPSOIL EXCAVATION AND PLACEMENT	FURNISHED EXCAVATION	EARTH EXCAVATION	TOPSOIL EXCAVATION AND PLACEMENT	FURNISHED EXCAVATION
(XX+XX)	(FT)	(SQ FT)	(SQ FT)	(SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	(CU FT)	(CU FT)	(CU FT)
BIKE PATH										
500+00		0	0	0						
	50				0	6	2	18	324	93
500+50		1	13	4						
	50				8	14	2	392	724	105
501+00		15	16	0						
	50				9	15	1	455	735	49
501+50		3	13	1						
	50				2	14	7	86	716	347
502+00		0	15	12						
	50				0	15	14	4	759	723
502+50		0	15	17						
	50				0	16	21	0	824	1,033
503+00		0	18	25						
	50				0	18	24	0	895	1,203
503+50		0	18	23						
	50				0	17	24	0	867	1,204
504+00		0	17	25						
	50				0	17	29	0	848	1,455
504+50		0	17	33						
	50				0	18	37	0	876	1,855
505+00		0	18	41						
	50				4	18	43	182	889	2,151
505+50		7	18	45						
	50				4	19	55	182	934	2,745
506+00		0	20	65						
	50				0	18	59	0	918	2,953
506+50		0	17	54						
	50				0	17	53	0	847	2,669
507+00		0	17	53						
	50				0	16	51	0	824	2,571
507+50		0	16	50						
	50				0	16	41	0	782	2,056
508+00		0	15	33						
	50				0	17	39	0	863	1,937
508+50		0	19	45						
	50				0	21	55	0	1,071	2,764
509+00		0	23	66						
	50				0	23	63	0	1,172	3,152
509+50		0	23	60						
	50				0	24	57	0	1,176	2,838
510+00		0	24	53						
	50				0	22	46	0	1,097	2,312
510+50		0	20	39						
	50				0	19	32	0	957	1,604
511+00		0	18	25						
	50				0	18	24	0	910	1,221
511+50		0	18	24						
	50				0	18	22	0	903	1,085
512+00		0	18	19						
	50				0	17	15	0	852	744
512+50		0	16	10						
	50				0	17	11	0	831	534
513+00		0	17	11						
	50				0	17	11	0	838	529
513+50		0	17	10						
	50				0	17	13	0	850	627
514+00		0	17	15						
	50				0	17	22	0	863	1,106
514+50		0	17	29						
	50				0	17	36	0	868	1,820
515+00		0	18	44						
	50				0	17	41	0	864	2,043
515+50		0	17	38						
	50				0	17	37	0	834	1,835
516+00		0	16	35						
	50				0	16	31	0	789	1,573
516+50		0	15	28						
	50				0	15	23	0	737	1,135
517+00		0	14	18						
	50				0	14	17	0	707	826
517+50		0	14	15						
	50				0	14	13	0	682	665

3 SCHEDULE OF EARTHWORK QUANTITIES											
STATION	DISTANCE	EARTH EXCAVATION	TOPSOIL EXCAVATION AND PLACEMENT	FURNISHED EXCAVATION	EARTH EXCAVATION	TOPSOIL EXCAVATION AND PLACEMENT	FURNISHED EXCAVATION	EARTH EXCAVATION	TOPSOIL EXCAVATION AND PLACEMENT	FURNISHED EXCAVATION	
(XX+XX)	(FT)	(SQ FT)	(SQ FT)	(SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	(CU FT)	(CU FT)	(CU FT)	
BIKE PATH											
518+00		0	13	11							
	50				1	13	7	29	641	351	
518+50		1	12	3							
	50				4	13	2	221	649	113	
519+00		8	14	2							
	50				7	13	2	332	672	104	
519+50		6	13	2							
	50				3	13	7	140	663	347	
520+00		0	13	11							
	50				0	13	7	14	646	368	
520+50		1	13	3							
	50				1	12	3	61	623	150	
521+00		2	12	3							
	50				1	14	7	55	677	364	
521+50		0	15	12							
	50				0	13	15	9	663	747	
522+00		0	12	18							
	50				0	12	21	1	590	1,030	
522+50		0	12	23							
	50				0	12	24	0	595	1,203	
523+00		0	12	25							
	50				0	11	14	0	572	682	
523+50		0	11	2							
	50				0	11	2	0	548	100	
524+00		0	11	2							
	50				0	11	9	0	565	448	
524+50		0	12	16							
	50				0	11	12	0	569	576	
525+00		0	11	7							
	50				1	11	4	53	552	208	
525+50		2	11	2							
	50				1	11	4	53	549	216	
526+00		0	11	7							
	50				0	12	9	3	607	457	
526+50		0	13	11							
	50				0	14	16	3	697	800	
527+00		0	15	21							
	50				0	14	19	0	714	945	
527+50		0	14	17							
	50				0	15	20	0	737	996	
528+00		0	16	23							
	50				0	15	20	0	773	1,022	
528+50		0	15	18							
	50				0	15	19	0	768	967	
529+00		0	15	21							
	50				1	15	15	26	763	735	
529+50		1	15	9							
	50				1	15	8	50	736	408	
530+00		1	14	8							
	50				2	14	5	120	682	269	
530+50		4	13	3							
	50				7	14	2	342	707	105	
531+00		10	15	1							
	50				9	15	1	442	741	54	
531+50		8	14	1							
	50				4	11	1	213	572	69	
532+00		1	8	2							
	50				0	7	1	24	349	43	
532+50		0	5	0							
	50				0	3	0	7	136	0	
533+00		0	0	0							
	50				0	0	0	0	0	0	
					SUBTOTAL BIKE PATH				3,517	49,380	67,440
					PROJECT SUBTOTAL (CU. FT.)				3,517	49,380	67,440
					PROJECT SUBTOTAL (CU. YD.)				131	1,829	2,498
					SHRINKAGE FACTOR ADJUSTMENT (15%)				-	-	x 1.15
					PROJECT TOTAL (CU. YD.)				131	1,829	2,873



450 E Devon Ave, Suite 300
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - JRR
DRAWN - JRR
CHECKED - RTM
DATE - 03/24/2014

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 2 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	8
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE: _____ BY: _____
 SUPERVISOR: _____
 ALIGNED CHECKED: _____
 PT. OF WAY CHECKED: _____
 2500 FILE NAME: _____

DATE: _____ BY: _____
 SUPERVISOR: _____
 GRADES CHECKED: _____
 R.A. NOTED: _____
 STRUCTURE NOTES CHECKED: _____

4 SCHEDULE OF SEEDING ITEMS						
STREET	STATION		SEEDING, CLASS 2A (25000210)	SEEDING, CLASS (25000310)	NITROGEN FERTILIZER NUTRIENT (25000400)	POTASSIUM FERTILIZER NUTRIENT (25000600)
	FROM	TO	ACRES	ACRE	POUND	POUND
Washington Street	500+00	505+00	0.19	0.00	17	17
	505+00	510+50	0.18	0.25	17	17
	510+50	516+00	0.14	0.00	13	13
	516+00	521+50	0.14	0.00	12	12
	521+50	527+00	0.32	0.00	29	29
	527+00	532+98.90	0.59	0.00	53	53
	PROJECT TOTAL		1.75	0.25	158	158

5 SCHEDULE OF EROSION CONTROL ITEMS									
STREET	STATION		AREA		EROSION CONTROL BLANKET (25100630)	TEMPORARY EROSION CONTROL SEEDING (28000250)	TEMPORARY DITCH CHECKS (28000305)	PERIMETER EROSION BARRIER (28000400)	INLET FILTERS (28000510)
	FROM	TO	SQ FT	SQ YD	SQ YD	POUND	FOOT	FOOT	EACH
Washington Street	500+00	505+00	8310	924	924	21	84	345	1
	505+00	510+50	8011	891	891	21	28	632	6
	510+50	516+00	6092	677	677	16	0	560	2
	516+00	521+50	5908	657	657	16	0	537	2
	521+50	527+00	13801	1534	1534	34	0	563	3
	527+00	532+99	25774	2864	2864	67	28	589	5
	PROJECT TOTAL		7547	175	140	3226	19		

6 SCHEDULE OF AGGREGATE BASE COURSE					
STREET	STATION		AGGREGATE BASE COURSE, TYP B 4" (35101600)	AGGREGATE BASE COURSE, TYP B 6" (35101800)	AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)
	FROM	TO	SQ YD	SQ YD	SQ YD
Washington street	500+00	504+00	0	493	493
	504+00	509+00	0	556	556
	509+00	514+00	0	556	556
	514+00	519+00	0	556	556
	519+00	524+00	0	751	751
	524+00	529+00	0	585	585
	529+00	532+99	68	338	338
PROJECT TOTAL		68	3,833	3,833	

7 SCHEDULE OF ASPHALT MATERIALS				
STREET	STATION		BITUMINOUS MATERIALS (PRIME COAT) (X4060110)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (40603335)
	FROM	TO	POUND	TON
Washington street	500+00	504+00	1110	83
	504+00	509+00	1250	94
	509+00	514+00	1250	94
	514+00	519+00	1250	94
	519+00	524+00	1689	127
	524+00	529+00	1316	99
	529+00	532+99	760	57
	PROJECT TOTAL		8625	648

8 SCHEDULE OF CONCRETE ITEMS						
STREET	STATION		PROTECTIVE COAT (42001300)	PORTLAND CEMENT CONCRETE SIDEWALK 5" (42400200)	DETECTABLE WARNINGS (42400800)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (60605000)
	FROM	TO	SQ YD	SQ FT	SQ FT	FOOT
Washington street	500+00	504+00	0	0	0	0
	504+00	509+00	133	0	0	386
	509+00	514+00	0	0	0	0
	514+00	519+00	0	0	0	0
	519+00	524+00	214	0	0	137
	524+00	529+00	69	0	0	0
	529+00	532+99	68	610	24	0
PROJECT TOTAL		484	610	24	523	

9 SCHEDULE OF REMOVAL ITEMS					
STREET	STATION		PAVEMENT REMOVAL (44000100)	COMBINATION CURB AND GUTTER REMOVAL (44000500)	GUARD RAIL REMOVAL (63200310)
	FROM	TO	SQ YD	FOOT	FOOT
Washington street	500+00	504+00	62	0	0
	504+00	509+00	0	12	0
	509+00	514+00	0	0	0
	514+00	519+00	0	0	0
	519+00	524+00	126	335	287
	524+00	529+00	0	62	1
529+00	532+99	38	0	0	
PROJECT TOTAL		226	409	288	

10 SCHEDULE OF STORM SEWER PIPES											
STREET	STATION		STORM SEWERS, CLASS A, TYPE 1 12" (550A0050)	STORM SEWERS, CLASS A, TYPE 1 24" (550A0120)	TRENCH BACKFILL (20800150)	CONCRETE END SECTION, STANDARD 542001, 24" 1:3 (54261324)	TRAVERSABLE PIPE GRATE (54260311)	STORM SEWER REMOVAL 12" (55100500)	STORM SEWER REMOVAL 18" (55100900)	STORM SEWER REMOVAL 24" (55101200)	PIPE UNDERDRAIN S 4" (MODIFIED) (X6013600)
	FROM	TO	FOOT	FOOT	CU YD	EACH	FOOT	FOOT	FOOT	FOOT	FOOT
Washington Street	500+00	504+00	0	0	0	0	0	0	0	0	340
	504+00	509+00	155	36	7	0	0	0	0	14	577
	509+00	514+00	0	20	2	0	20	0	12	0	0
	514+00	519+00	0	0	0	2	0	10	0	0	0
	519+00	524+00	0	0	0	0	0	13	0	0	0
	524+00	529+00	0	0	0	0	0	0	0	0	345
	529+00	532+99	0	0	0	0	0	0	0	0	0
	Total:		155	56	9	2	20	23	12	14	1,262



450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR
 DRAWN - JRR
 CHECKED - RTM
 DATE - 03/24/2014

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 3 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	9
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

11		SCHEDULE OF STRUCTURES								
STREET	STATION		CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE (60205040)	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLASSED LID (60218400)	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8, GRATE (60221700)	INLET TYPE-A TYPE 24 FRAME & GRATE (60237470)	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 24 FRAME & GRATE (60264140)	MANHOLES TO BE ADJUSTED (60255500)	VALVE VAULTS TO BE ADJUSTED (60265700)	REMOVING CATCH BASINS (60500050)
	FROM	TO	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
Washington Street	500+00	504+00	0	0	0	0	0	0	0	0
	504+00	509+00	1	1	1	1	0	0	0	0
	509+00	514+00	0	0	0	0	3	0	0	0
	514+00	519+00	0	0	0	0	1	0	0	0
	519+00	524+00	0	0	0	0	1	0	0	1
	524+00	529+00	0	0	0	0	1	1	0	0
	529+00	532+99	0	0	0	0	0	0	0	0
	PROJECT TOTAL			1	1	1	1	1	5	1

12		SCHEDULE OF GUARD RAIL ITEMS				
STREET	STATION		TRAFFIC BARRIER TERMINAL, TYPE 6 (63100085)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (63100167)	GUARDRAIL MARKERS, TYPE B (78200420)	TERMINAL MARKER - DIRECT APPLIED (78201000)
	FROM	TO	EACH	EACH	EACH	EACH
Washington street	500+00	504+00	0	0	0	0
	504+00	509+00	0	0	0	0
	509+00	514+00	0	0	0	0
	514+00	519+00	0	0	0	0
	519+00	524+00	1	1	4	1
	524+00	529+00	0	0	0	0
	529+00	532+99	0	0	0	0
PROJECT TOTAL			1	1	4	1

13		SCHEDULE OF TRAFFIC SIGNALS											
STREET	STATION		UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" (S1028210)	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (S5000200)	CONCRETE FOUNDATION, TYPE A (S7800100)	DRILL EXISTING HANDHOLE (S7900200)	RELOCATE EXISTING SIGNAL HEAD (S9500100)	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD (S9500200)	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON (S9500400)	RELOCATE EXISTING TRAFFIC SIGNAL POST (S9501150)	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT (S9502350)	REBUILD EXISTING HANDHOLE (S9502376)	REMOVE EXISTING CONCRETE FOUNDATION (S9502385)
	FROM	TO	FOOT	EACH	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	EACH	EACH
Washington street	500+00	504+00	0	0	0	0	0	0	0	0	0	0	0
	504+00	509+00	0	0	1	1	0	0	0	0	0	1	1
	509+00	514+00	0	0	1	1	0	0	0	0	0	1	1
	514+00	519+00	0	0	1	1	0	0	0	0	0	1	1
	519+00	524+00	0	0	0	0	1	0	0	0	0	0	0
	524+00	529+00	0	0	1	1	0	0	0	0	0	1	1
	529+00	532+99	16	1	1	1	0	1	2	1	362	1	1
PROJECT TOTAL			16	1	5	5	1	1	2	1	362	5	5

14		SCHEDULE OF TREE PLANTINGS			
STREET	STATION		GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED (A2005016)	TREE, QUERCUS MACROCARP A (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED (A2006716)	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED (A2007116)
	FROM	TO	EACH	EACH	EACH
Washington Street	500+00	505+00	0	0	0
	505+00	510+50	0	0	0
	510+50	516+00	0	0	0
	516+00	521+50	0	5	0
	521+50	527+00	1	0	0
	527+00	532+99	3	0	4
PROJECT TOTAL			4	5	4

PLAN	DATE
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

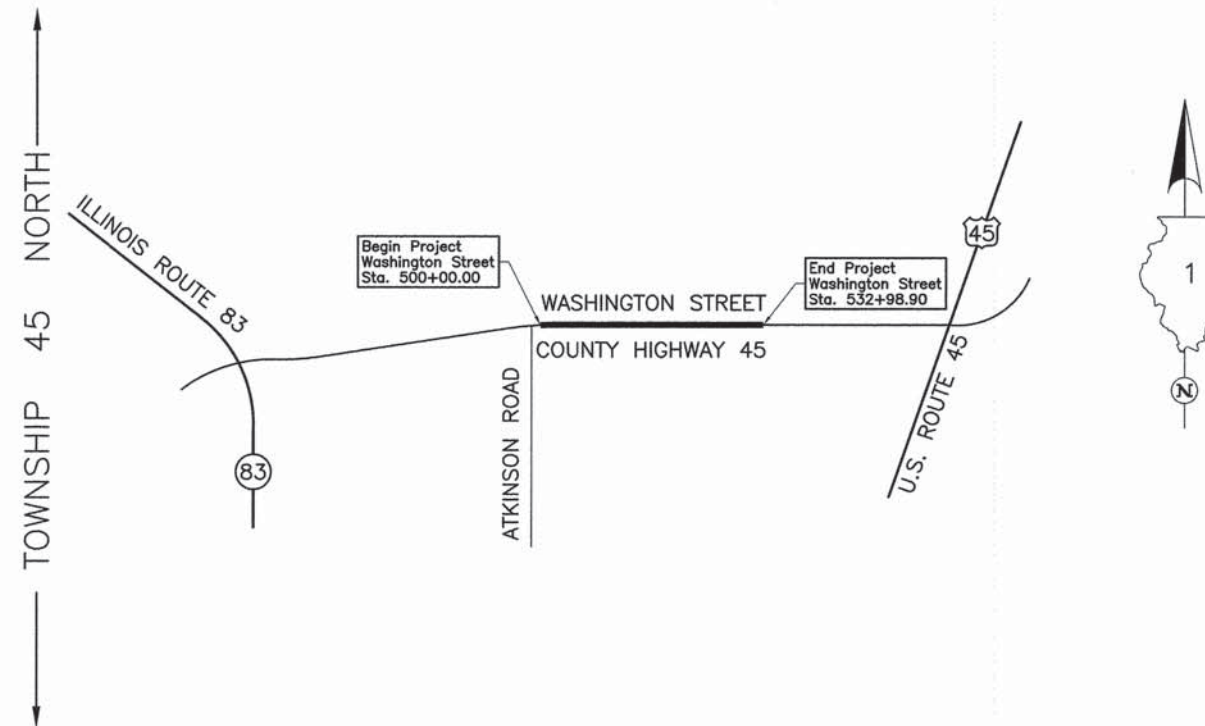
PROFILE	DATE
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS

ROUTE: WASHINGTON STREET
SECTION: 09-00135-11-BT
COUNTY: LAKE
LIMITS: ATKINSON ROAD TO LANCER LANE
JOB NO.: R-55-001-97

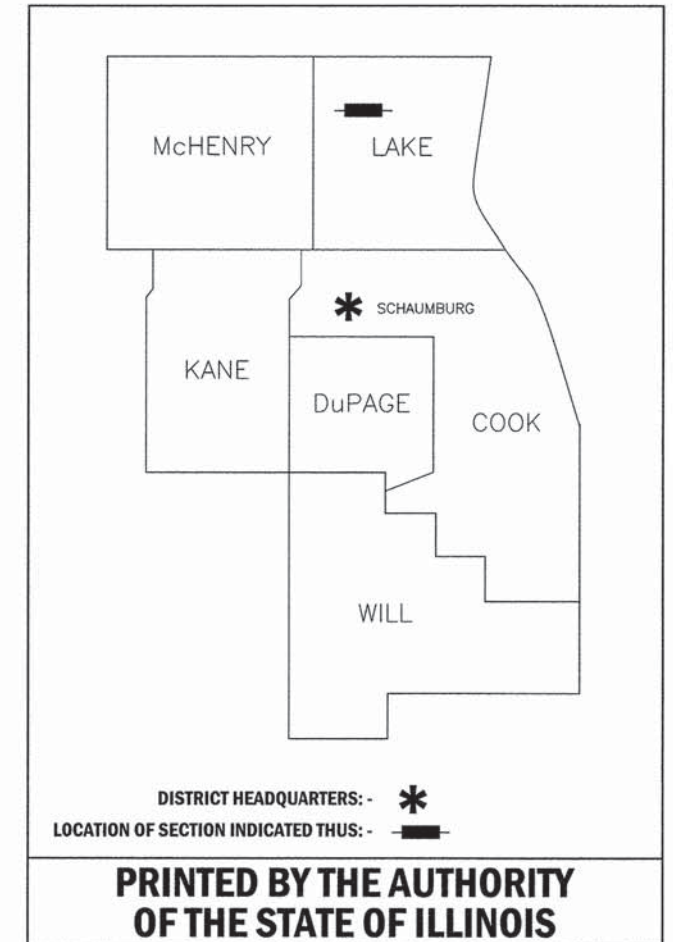
← RANGE 10 EAST →

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0001T.E.	Village of Grayslake	2	
0002P.E.-A 0002P.E.-B 0002T.E.-A 0002T.E.-B	Grayslake Park District	2 & 3	
0003T.E.	Community College District No. 532	4	
0004P.E.	Regional Board of School Trustees of Lake County, Illinois also known as The County Board of School Trustees of Lake County, Illinois	5	
0005P.E. 0005T.E.	The Board of Junior College, District 532, County of Lake, State of Illinois	6	



LOCATION MAP

PROJECT LENGTH = 3,298.90 LIN. FT. = 0.625 MILE, WASHINGTON STREET



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

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

Existing & Proposed
Pavement
Washington Street
Curve #1

P.I. = Sta. 56+15.19
 Δ = 1°39'34"
 R = 3819.83'
 T = 55.32'
 L = 110.63'
 E = 0.40'
 P.C. = Sta. 55+59.87
 P.T. = Sta. 56+70.50

Parcel	Document No.	Date Recorded
0001	3113247	February 6, 1992
0001	3232390	October 27, 1992
0002	3232390	October 27, 1992
-----	957777	July 16, 1957
-----	3187243	July 17, 1992
-----	4414780	September 3, 1999
-----	5247047	May 27, 2003

STATE OF ILLINOIS }
 COUNTY OF LAKE } SS
 I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____ 20__ A.D.

COUNTY ENGINEER

LEGEND

SECTION CORNER 9 10 16 15
 QUARTER SECTION CORNER 16 15

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE
 EXISTING CENTER LINE
 PROPOSED CENTER LINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 EXISTING EASEMENT
 PROPOSED EASEMENT
 EXISTING ACCESS CONTROL LINE
 PROPOSED ACCESS CONTROL LINE
 MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND @ "MAG" NAIL SET
 CUT CROSS FOUND OR SET • 5/8" REBAR SET

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

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

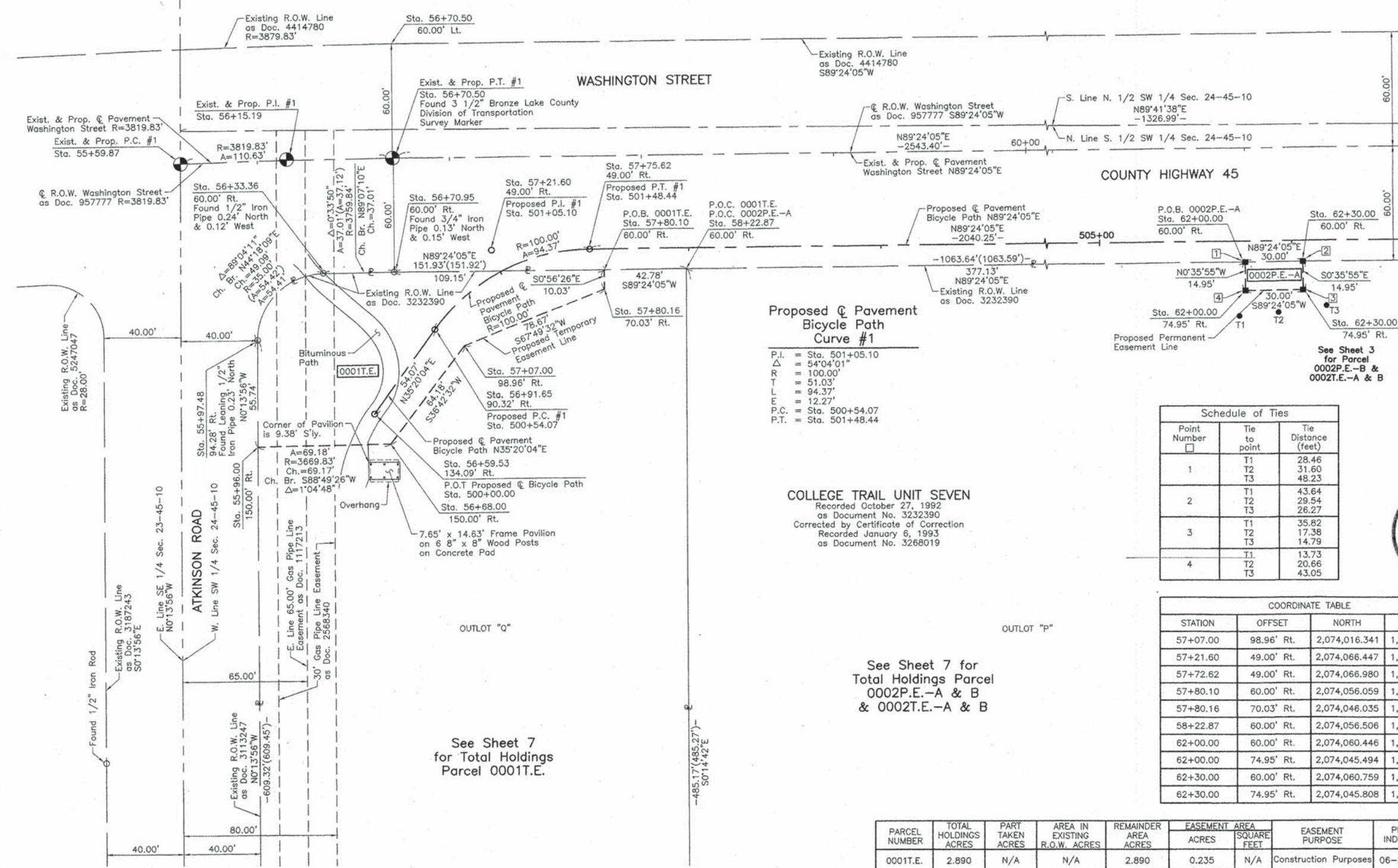
STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

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

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

RIGHT OF WAY STAKING PROPOSED TO BE SET.

SCALE: 1"=30'



Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	T1	28.46
	T2	31.60
	T3	48.23
2	T1	43.64
	T2	29.54
	T3	26.27
3	T1	35.82
	T2	17.38
	T3	14.79
4	T1	13.73
	T2	20.66
	T3	43.05

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
55+96.00	150.00' Rt.	2,073,963.473	1,067,869.755
55+97.48	94.28' Rt.	2,074,019.215	1,067,869.529
56+33.36	60.00' Rt.	2,074,054.350	1,067,903.819
56+59.53	134.09' Rt.	2,073,980.707	1,067,930.567
56+68.00	150.00' Rt.	2,073,964.893	1,067,938.914
56+70.50	60.00' Lt.	2,074,174.907	1,067,939.118
56+70.95	60.00' Rt.	2,074,054.918	1,067,940.820
56+91.65	90.32' Rt.	2,074,024.820	1,067,961.841
57+07.00	98.96' Rt.	2,074,016.341	1,067,977.275
57+21.60	49.00' Rt.	2,074,066.447	1,067,991.352
57+72.62	49.00' Rt.	2,074,066.980	1,068,042.376
57+80.10	60.00' Rt.	2,074,056.059	1,068,049.965
57+80.16	70.03' Rt.	2,074,046.035	1,068,050.129
58+22.87	60.00' Rt.	2,074,056.506	1,068,092.739
62+00.00	60.00' Rt.	2,074,060.446	1,068,469.843
62+00.00	74.95' Rt.	2,074,045.494	1,068,469.999
62+30.00	60.00' Rt.	2,074,060.759	1,068,499.843
62+30.00	74.95' Rt.	2,074,045.808	1,068,499.999

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0001T.E.	2.890	N/A	N/A	2.890	0.235	N/A	Construction Purposes	06-24-301-001
0002P.E.-A 0002P.E.-B 0002T.E.-A 0002T.E.-B	17.345	N/A	N/A	17.345	P.E.-A=0.010 P.E.-B=0.007 T.E.-A=0.031 T.E.-B=0.022	449 300 N/A N/A	Drainage Drainage Construction Purposes Construction Purposes	06-24-301-002



CHRISTIAN H. JORGENSEN
 PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
 Note: Surface Coordinates are Shown
 Project Average Combined Scale Factor 0.999951704

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
55+96.00	150.00' Rt.	2,073,963.473	1,067,869.755
55+97.48	94.28' Rt.	2,074,019.215	1,067,869.529
56+33.36	60.00' Rt.	2,074,054.350	1,067,903.819
56+59.53	134.09' Rt.	2,073,980.707	1,067,930.567
56+68.00	150.00' Rt.	2,073,964.893	1,067,938.914
56+70.50	60.00' Lt.	2,074,174.907	1,067,939.118
56+70.95	60.00' Rt.	2,074,054.918	1,067,940.820
56+91.65	90.32' Rt.	2,074,024.820	1,067,961.841

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 WASHINGTON STREET
 LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97
 STATION 55+59.87 TO STATION 63+00
 SCALE: 1"=30' SHEET 2 OF 9

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

Schedule of Ties		
Point Number	Tie to point	Tie Distance (feet)
1	T1	27.45
	T2	27.92
	T3	36.05
2	T1	38.48
	T2	28.40
	T3	25.72
3	T1	30.33
	T2	15.57
	T3	11.66
4	T1	13.88
	T2	14.86
	T3	27.81

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
0002	3232390	October 27, 1992
-----	178314	June 20, 1918
-----	957777	July 16, 1957
-----	4414780	September 3, 1999
-----	5162392	March 21, 2003
-----	5196475	April 22, 2003

STATE OF ILLINOIS }
 COUNTY OF LAKE } SS
 I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____ 20__ A.D.

COUNTY ENGINEER

LEGEND

SECTION CORNER: 9/10, 16/15
 QUARTER SECTION CORNER: 16, 15

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE

APL: APPARENT PROPERTY LINE
 ECL: EXISTING CENTER LINE
 PCL: PROPOSED CENTER LINE
 ERL: EXISTING RIGHT OF WAY LINE
 PRL: PROPOSED RIGHT OF WAY LINE
 EL: EXISTING EASEMENT
 PE: PROPOSED EASEMENT
 EACL: EXISTING ACCESS CONTROL LINE
 PEACL: PROPOSED ACCESS CONTROL LINE
 MD: MEASURED DIMENSION
 CD: COMPUTED DIMENSION
 RD: RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND: O
 "MAG" NAIL SET: @
 CUT CROSS FOUND OR SET: +
 5/8" REBAR SET: •

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

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

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

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

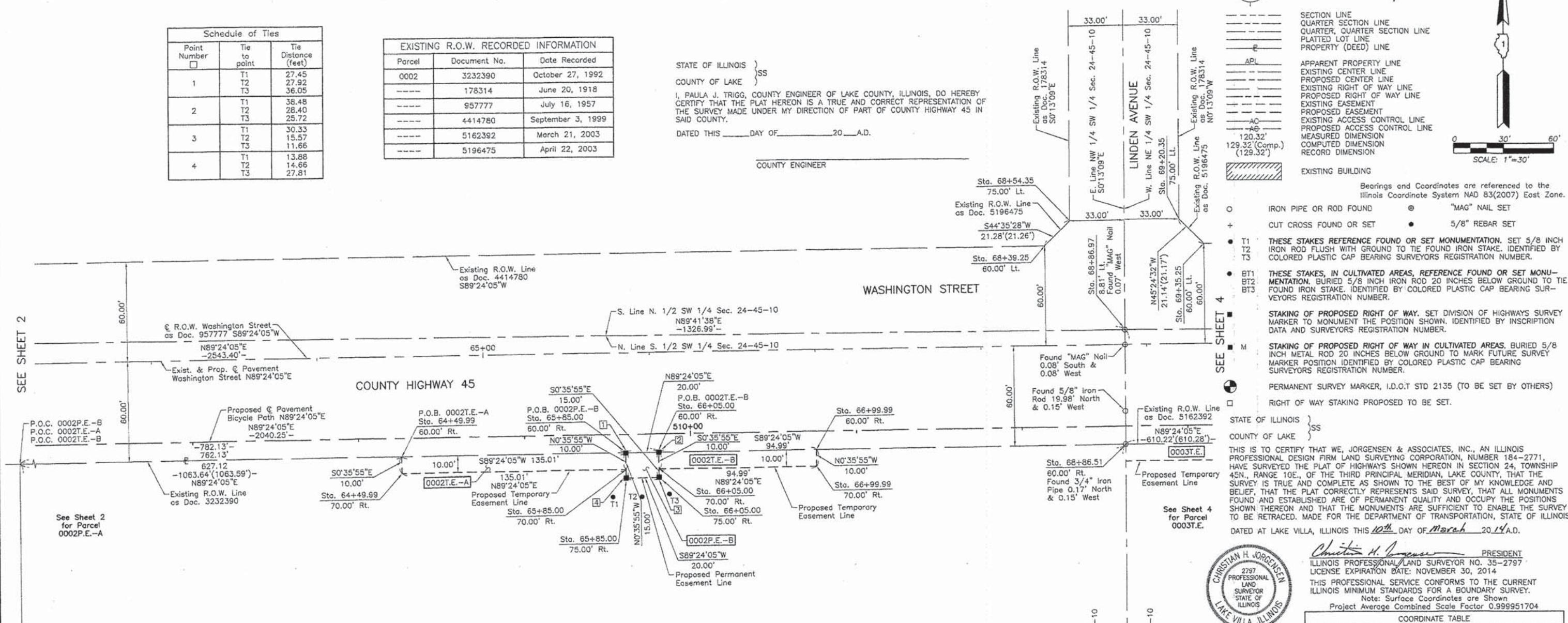
PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.
 DATED AT LAKE VILLA, ILLINOIS THIS 10th DAY OF March 2014 A.D.

CHRISTIAN H. JORGENSEN
 2797 PROFESSIONAL LAND SURVEYOR
 STATE OF ILLINOIS
 LAKE VILLA, ILLINOIS



SEE SHEET 2

SEE SHEET 4

See Sheet 2 for Parcel 0002P.E.-A

See Sheet 4 for Parcel 0003T.E.

COLLEGE TRAIL UNIT SEVEN
 Recorded October 27, 1992
 as Document No. 3232390
 Corrected by Certificate of Correction
 Recorded January 6, 1993
 as Document No. 3268019

See Sheet 7 for
 Total Holdings Parcel
 0002P.E.-A & B
 & 0002T.E.-A & B

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		EASEMENT PURPOSE	PERMANENT INDEX NUMBER
					SQUARE FEET	ACRES		
0002P.E.-A	17.345	N/A	N/A	17.345	P.E.-A=0.010	449	Drainage Construction Purposes	06-24-301-002
0002P.E.-B					P.E.-B=0.007	300		
0002T.E.-A					T.E.-A=0.031	N/A		
0002T.E.-B					T.E.-B=0.022	N/A		

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
66+99.99	60.00' Rt.	2,074,065.669	1,068,969.811
66+99.99	70.00' Rt.	2,074,055.670	1,068,969.915
68+39.25	60.00' Lt.	2,074,187.118	1,069,107.806
68+54.35	75.00' Lt.	2,074,202.274	1,069,122.748
68+86.51	60.00' Rt.	2,074,067.618	1,069,156.320
68+86.97	8.81' Lt.	2,074,136.430	1,069,156.057
69+20.35	75.00' Lt.	2,074,202.964	1,069,188.746
69+35.25	60.00' Lt.	2,074,188.121	1,069,203.802

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
64+49.99	60.00' Rt.	2,074,063.058	1,068,719.824
64+49.99	70.00' Rt.	2,074,053.058	1,068,719.929
65+85.00	60.00' Rt.	2,074,064.468	1,068,854.823
65+85.00	70.00' Rt.	2,074,054.468	1,068,854.928
65+85.00	75.00' Rt.	2,074,049.474	1,068,854.980
66+05.00	60.00' Rt.	2,074,064.677	1,068,874.823
66+05.00	70.00' Rt.	2,074,054.678	1,068,874.928
66+05.00	75.00' Rt.	2,074,049.683	1,068,874.980

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 WASHINGTON STREET
 LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97
 STATION 62+00 TO STATION 70+00
 SCALE: 1"=30' SHEET 3 OF 9

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

REVISION DATE _____ REVISION _____ MADE BY _____

PART OF THE SW 1/4 OF SEC. 24, TWP. 45 N., R. 10 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
0003	5162392	March 21, 2003
0003	5162393	March 21, 2003
----	178314	June 20, 1918
----	957777	July 16, 1957
----	969825	October 24, 1957
----	4414780	September 3, 1999
----	5196475	April 22, 2003
----	5379088	September 24, 2003

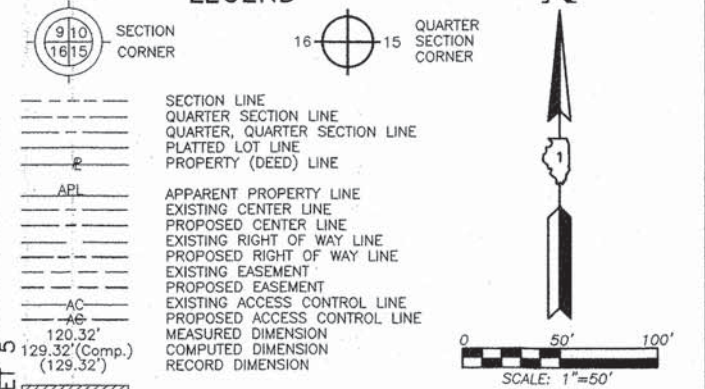
STATE OF ILLINOIS }
COUNTY OF LAKE } SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.

DATED THIS _____ DAY OF _____ 20____ A.D.

COUNTY ENGINEER

LEGEND



Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- IRON PIPE OR ROD FOUND @ "MAG" NAIL SET
- CUT CROSS FOUND OR SET • 5/8" REBAR SET

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

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

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

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

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

RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 10th DAY OF March 2014 A.D.



Christian H. Jorgensen, PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown
Project Average Combined Scale Factor 0.999951704

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
68+39.25	60.00' Lt.	2,074,187.118	1,069,107.806
68+54.35	75.00' Lt.	2,074,202.274	1,069,122.748
68+86.45	70.00' Rt.	2,074,057.618	1,069,156.358
68+86.51	60.00' Rt.	2,074,067.618	1,069,156.320
68+86.97	8.81' Lt.	2,074,136.430	1,069,156.057
69+20.35	75.00' Lt.	2,074,202.964	1,069,188.746
69+35.25	60.00' Lt.	2,074,188.121	1,069,203.802
74+67.12	40.00' Lt.	2,074,173.678	1,069,735.849

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WASHINGTON STREET
LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE
SECTION: 09-00135-11-BT JOB NO.: R-55-001-97
STATION 68+00 TO STATION 80+00
SCALE: 1"=50' SHEET 4 OF 9

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

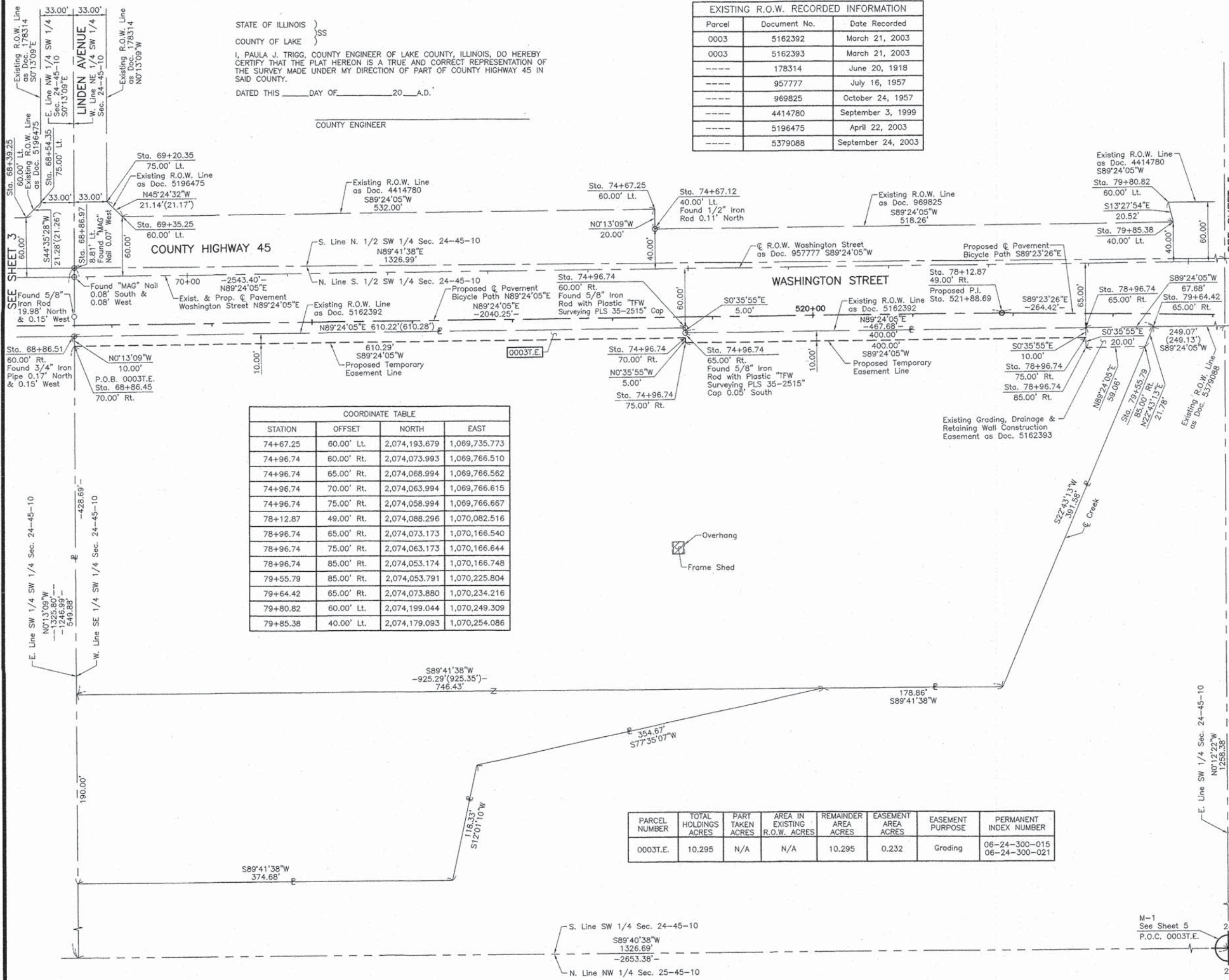
COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
74+67.25	60.00' Lt.	2,074,193.679	1,069,735.773
74+96.74	60.00' Rt.	2,074,073.993	1,069,766.510
74+96.74	65.00' Rt.	2,074,068.994	1,069,766.562
74+96.74	70.00' Rt.	2,074,063.994	1,069,766.615
74+96.74	75.00' Rt.	2,074,058.994	1,069,766.667
78+12.87	49.00' Rt.	2,074,088.296	1,070,082.516
78+96.74	65.00' Rt.	2,074,073.173	1,070,166.540
78+96.74	75.00' Rt.	2,074,063.173	1,070,166.644
78+96.74	85.00' Rt.	2,074,053.174	1,070,166.748
79+55.79	85.00' Rt.	2,074,053.791	1,070,225.804
79+64.42	65.00' Rt.	2,074,073.880	1,070,234.216
79+80.82	60.00' Lt.	2,074,199.044	1,070,249.309
79+85.38	40.00' Lt.	2,074,179.093	1,070,254.086

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0003T.E.	10.295	N/A	N/A	10.295	0.232	Grading	06-24-300-015 06-24-300-021

REVISION DATE

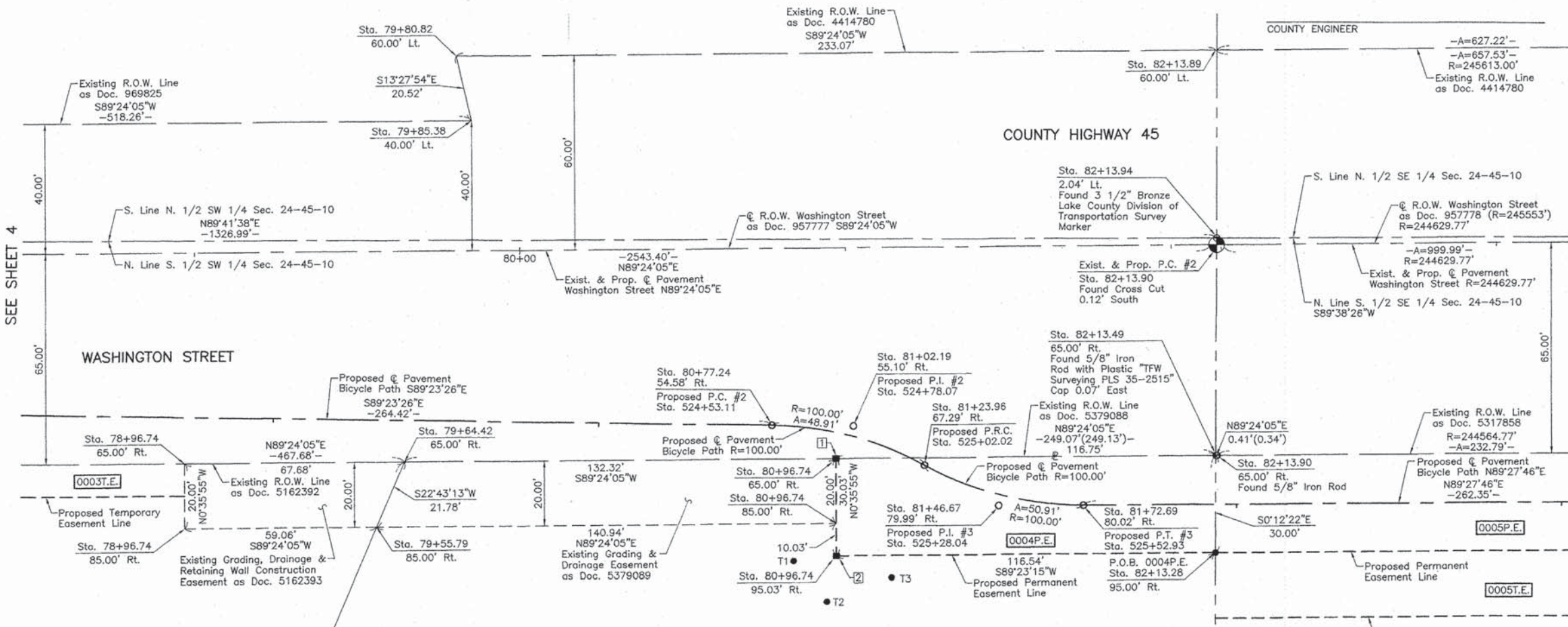
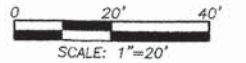
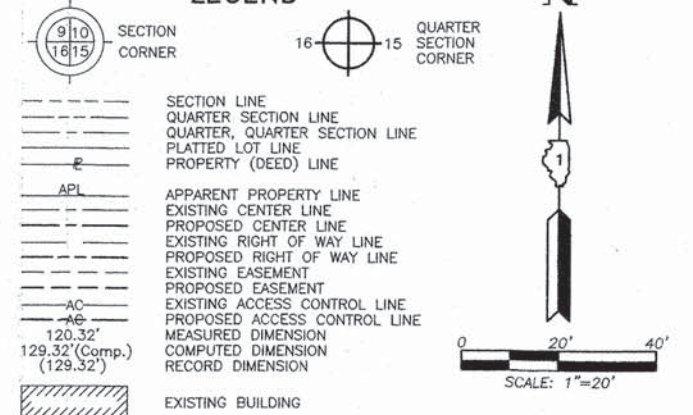
REVISION

MADE BY



STATE OF ILLINOIS }
 COUNTY OF LAKE }
 I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____ 20__ A.D.

LEGEND



Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND @ "MAG" NAIL SET
 CUT CROSS FOUND OR SET • 5/8" REBAR SET

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

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

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

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

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

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	T1	34.08
	T2	44.07
	T3	40.60
2	T1	13.12
	T2	14.25
	T3	18.38

Proposed Pavement Bicycle Path Curve #2

P.I.	= Sta. 524+78.07
Δ	= 28°01'25"
R	= 100.00'
T	= 24.96'
L	= 48.91'
E	= 3.33'
P.C.	= Sta. 524+53.11
P.R.C.	= Sta. 525+02.02

Proposed Pavement Bicycle Path Curve #3

P.I.	= Sta. 525+28.04
Δ	= 29°10'14"
R	= 100.00'
T	= 26.02'
L	= 50.91'
E	= 3.33'
P.R.C.	= Sta. 525+02.02
P.T.	= Sta. 525+52.93

Existing & Proposed Pavement Washington Street Curve #2

P.I.	= Sta. 87+13.90
Δ	= 0°14'03"
R	= 244629.77'
T	= 500.00'
L	= 999.99'
E	= 0.51'
P.C.	= Sta. 82+13.90
P.T.	= Sta. 92+13.89

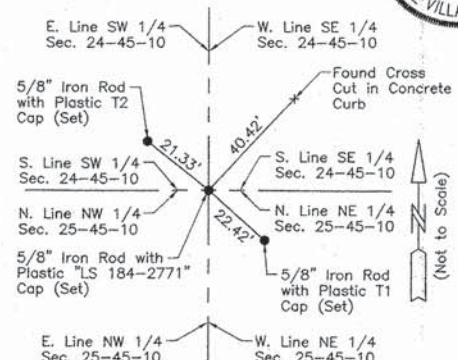
EXISTING R.O.W. RECORDED INFORMATION

Parcel	Document No.	Date Recorded
0004	5379088	September 24, 2003
0004	5379089	September 24, 2003
----	957777	July 16, 1957
----	957778	July 16, 1957
----	969825	October 24, 1957
----	4414780	September 3, 1999
----	5162392	March 21, 2003
----	5162393	March 21, 2003
----	5317858	July 28, 2003

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0004P.E.	28.008	N/A	N/A	28.008	0.080	Bikeway Purposes	06-24-300-022

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
80+96.74	85.00' Rt.	2,074,055.263	1,070,366.738
80+96.74	95.03' Rt.	2,074,045.236	1,070,366.842
81+02.19	55.10' Rt.	2,074,085.217	1,070,371.876
81+23.96	67.29' Rt.	2,074,073.259	1,070,393.779
81+46.67	79.99' Rt.	2,074,060.790	1,070,418.617
81+72.69	80.02' Rt.	2,074,061.034	1,070,442.637
82+13.28	95.00' Rt.	2,074,046.481	1,070,483.380
82+13.49	65.00' Rt.	2,074,076.482	1,070,483.272
82+13.89	60.00' Lt.	2,074,201.479	1,070,482.366
82+13.90	65.00' Rt.	2,074,076.486	1,070,483.687
82+13.94	2.04' Lt.	2,074,143.523	1,070,483.031



M-1 "Monument Record"
 South 1/4 Corner of Section 24-45-10
 N. 2,072,818.112 - E. 1,070,487.799
 Recorded March 20, 2014
 Document No. 7085466



Christian H. Jorgensen, PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
 Note: Surface Coordinates are Shown
 Project Average Combined Scale Factor 0.999951704

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
78+96.74	65.00' Rt.	2,074,073.173	1,070,166.540
78+96.74	85.00' Rt.	2,074,053.174	1,070,166.748
79+55.79	85.00' Rt.	2,074,053.791	1,070,225.804
79+64.42	65.00' Rt.	2,074,073.880	1,070,234.216
79+80.82	60.00' Lt.	2,074,199.044	1,070,249.309
79+85.38	40.00' Lt.	2,074,179.093	1,070,254.086
80+77.24	54.58' Rt.	2,074,085.483	1,070,346.923
80+96.74	65.00' Rt.	2,074,075.262	1,070,366.529

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 WASHINGTON STREET
 LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97
 STATION 78+00 TO STATION 83+00
 SCALE: 1"=20' SHEET 5 OF 9

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

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
0005	5317858	July 28, 2003
0005	5317859	July 28, 2003
0005	5877428	October 18, 2005
----	4414780	September 3, 1999
----	3225270	October 13, 1992

Existing & Proposed Pavement Washington Street Curve #2

- P.I. = Sta. 87+13.90
- Δ = 0'14'03"
- R = 244629.77'
- T = 500.00'
- L = 999.99'
- E = 0.51'
- P.C. = Sta. 82+13.90
- P.T. = Sta. 92+13.89

STATE OF ILLINOIS }
COUNTY OF LAKE } SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.

DATED THIS _____ DAY OF _____ 20__ A.D.

COUNTY ENGINEER

LEGEND

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

0 IRON PIPE OR ROD FOUND @ "MAG" NAIL SET
+ CUT CROSS FOUND OR SET • 5/8" REBAR SET
● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
● PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
COUNTY OF LAKE } SS

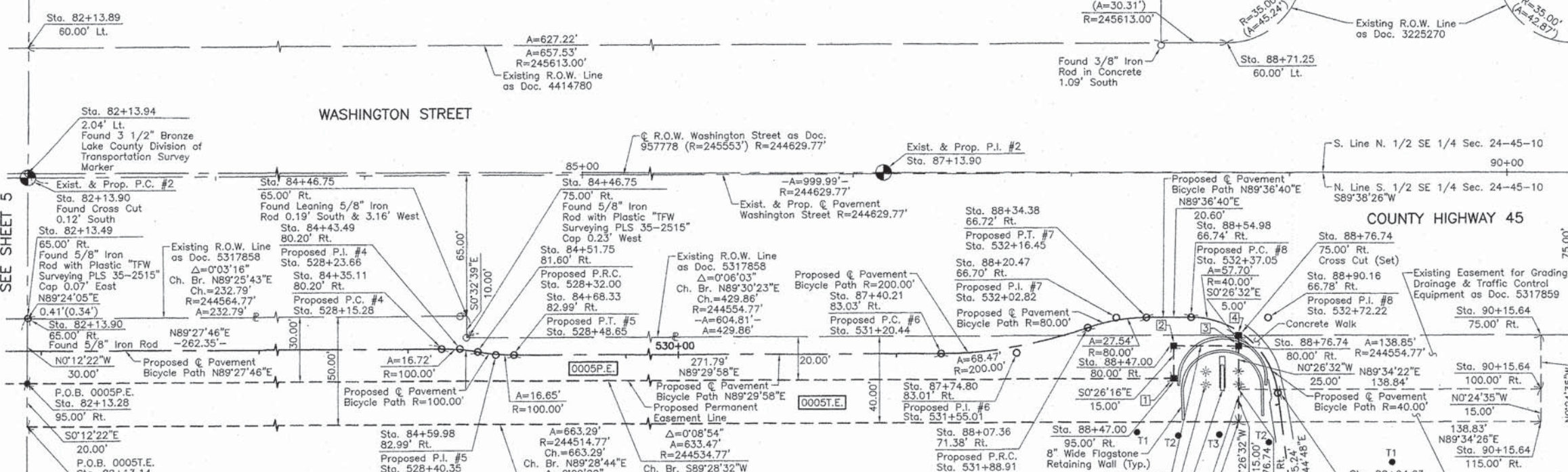
THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12TH DAY OF March 2014 A.D.

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown
Project Average Combined Scale Factor 0.999951704

CHRISTIAN H. JORGENSEN
2797
PROFESSIONAL
LAND
SURVEYOR
STATE OF
ILLINOIS
LAKE VILLA, ILLINOIS

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
82+13.14	115.00' Rt.	2,074,026.481	1,070,483.452
82+13.28	95.00' Rt.	2,074,046.481	1,070,483.380
82+13.49	65.00' Rt.	2,074,076.482	1,070,483.272
82+13.89	60.00' Lt.	2,074,201.479	1,070,482.366
82+13.90	65.00' Rt.	2,074,076.486	1,070,483.687
82+13.94	2.04' Lt.	2,074,143.523	1,070,483.031
84+35.11	80.20' Rt.	2,074,063.494	1,070,704.967
84+43.49	80.20' Rt.	2,074,063.573	1,070,713.346



See Sheet 8 for Total Holdings Parcel 0005P.E. & 0005T.E.

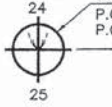
Proposed Pavement Bicycle Path Curve #4	Proposed Pavement Bicycle Path Curve #5	Proposed Pavement Bicycle Path Curve #6	Proposed Pavement Bicycle Path Curve #7	Proposed Pavement Bicycle Path Curve #8
P.I. = Sta. 528+23.66 Δ = 9'34'44" R = 100.00' T = 8.38' L = 16.72' E = 0.35' P.C. = Sta. 528+15.28 P.R.C. = Sta. 528+32.00	P.I. = Sta. 528+40.35 Δ = 9'32'32" R = 100.00' T = 8.35' L = 16.65' E = 0.35' P.R.C. = Sta. 528+32.00 P.T. = Sta. 528+48.65	P.I. = Sta. 531+55.01 Δ = 19'36'52" R = 200.00' T = 34.57' L = 68.47' E = 2.97' P.C. = Sta. 531+20.44 P.R.C. = Sta. 531+88.91	P.I. = Sta. 532+02.82 Δ = 19'43'34" R = 80.00' T = 13.91' L = 27.54' E = 1.20' P.R.C. = Sta. 531+88.91 P.T. = Sta. 532+16.45	P.I. = Sta. 532+72.22 Δ = 82'38'32" R = 40.00' T = 35.17' L = 57.70' E = 13.26' P.C. = Sta. 532+37.05 P.T. = Sta. 532+94.75

Schedule of Ties		
Point Number	Tie to point	Tie Distance (feet)
1	T1	29.98
	T2	26.49
	T3	33.24
2	T1	43.19
	T2	41.43
	T3	45.90
3	T1	88.57
	T2	46.48
	T3	41.85
4	T1	91.67
	T2	51.26
	T3	46.74

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
84+46.75	65.00' Rt.	2,074,078.808	1,070,716.465
84+46.75	75.00' Rt.	2,074,068.808	1,070,716.560
84+51.75	81.60' Rt.	2,074,062.256	1,070,721.620
84+59.98	82.99' Rt.	2,074,060.945	1,070,729.863
84+68.33	82.99' Rt.	2,074,061.018	1,070,738.209
87+40.21	83.03' Rt.	2,074,063.392	1,071,009.985
87+74.80	83.01' Rt.	2,074,063.694	1,071,044.558
88+07.36	71.38' Rt.	2,074,075.583	1,071,077.019
88+20.47	66.70' Rt.	2,074,080.366	1,071,090.079
88+34.38	66.72' Rt.	2,074,080.461	1,071,103.989
88+47.00	80.00' Rt.	2,074,067.280	1,071,116.710
88+47.00	95.00' Rt.	2,074,052.281	1,071,116.825

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
88+54.98	66.74' Rt.	2,074,080.601	1,071,124.586
88+71.25	60.00' Lt.	2,074,207.469	1,071,139.869
88+76.74	75.00' Rt.	2,074,072.512	1,071,146.404
88+76.74	80.00' Rt.	2,074,067.512	1,071,146.443
88+76.74	100.00' Rt.	2,074,047.513	1,071,146.597
88+76.74	115.00' Rt.	2,074,032.513	1,071,146.713
88+90.16	66.78' Rt.	2,074,080.839	1,071,159.752
88+94.63	101.66' Rt.	2,074,045.993	1,071,164.493
89+01.67	156.45' Rt.	2,073,991.254	1,071,171.939
90+15.64	75.00' Rt.	2,074,073.547	1,071,285.253
90+15.64	100.00' Rt.	2,074,048.548	1,071,285.432
90+15.64	115.00' Rt.	2,074,033.546	1,071,285.539

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0005P.E.	35.873	N/A	N/A	35.873	P.E.=0.348 T.E.=0.315	Bikeway Purposes Construction Purposes	06-24-400-045 06-24-400-046



REVISION DATE _____ REVISION _____ MADE BY _____

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WASHINGTON STREET

LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE
SECTION: 09-00135-11-BT JOB NO.: R-55-001-97
STATION 82+00 TO STATION 91+00
SCALE: 1"=30' SHEET 6 OF 9

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

LEGEND

SECTION CORNER: 9 10 16 15

QUARTER SECTION CORNER: 16 15

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE

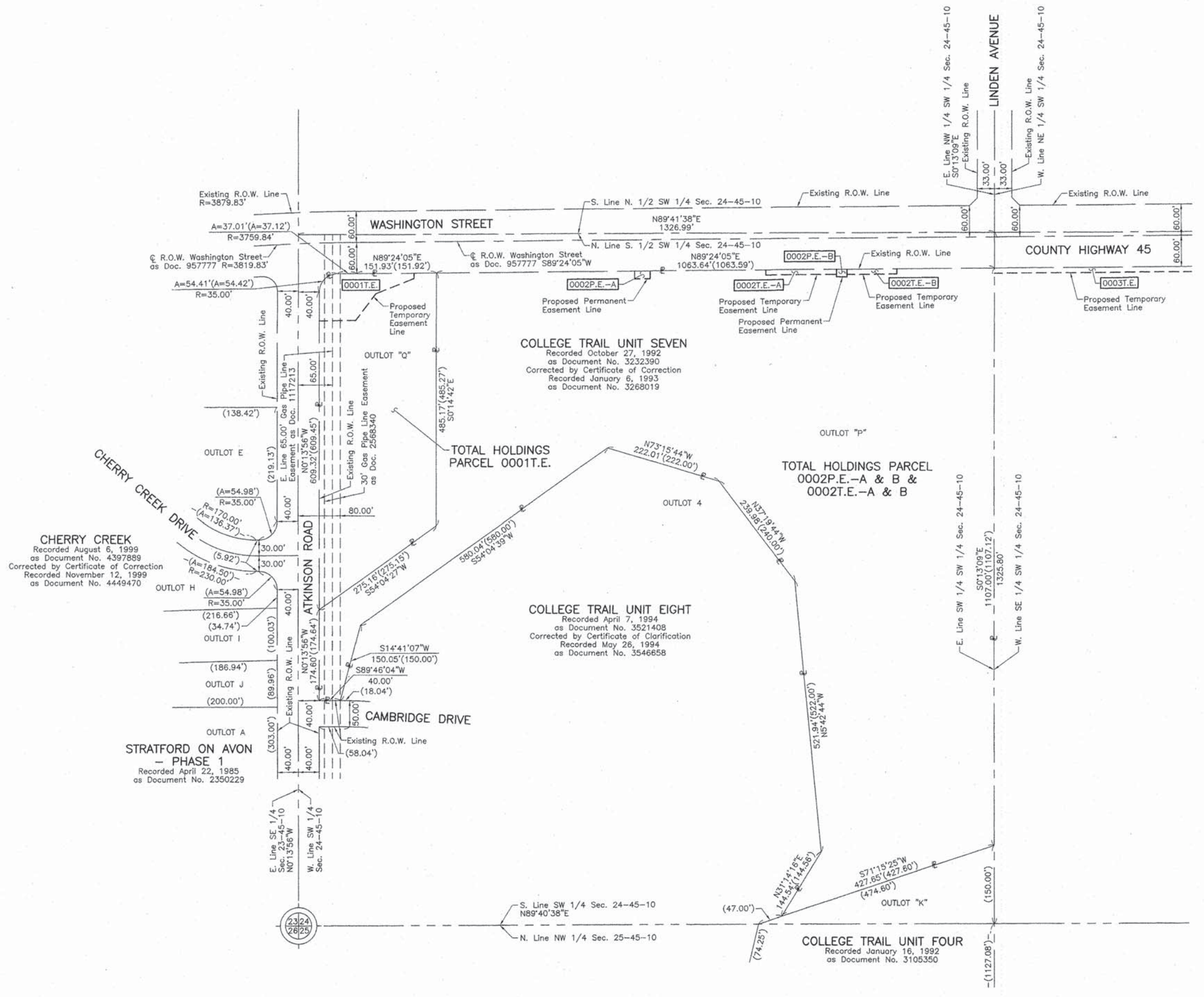
API
 APPARENT PROPERTY LINE
 EXISTING CENTER LINE
 PROPOSED CENTER LINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 EXISTING EASEMENT
 PROPOSED EASEMENT
 EXISTING ACCESS CONTROL LINE
 PROPOSED ACCESS CONTROL LINE
 MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

0 100' 200'

SCALE: 1"=100'



- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12TH DAY OF March 2014 A.D.



Christian H. Jorgensen PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

STATE OF ILLINOIS }
 COUNTY OF LAKE } SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.

DATED THIS _____ DAY OF _____ 20__ A.D.

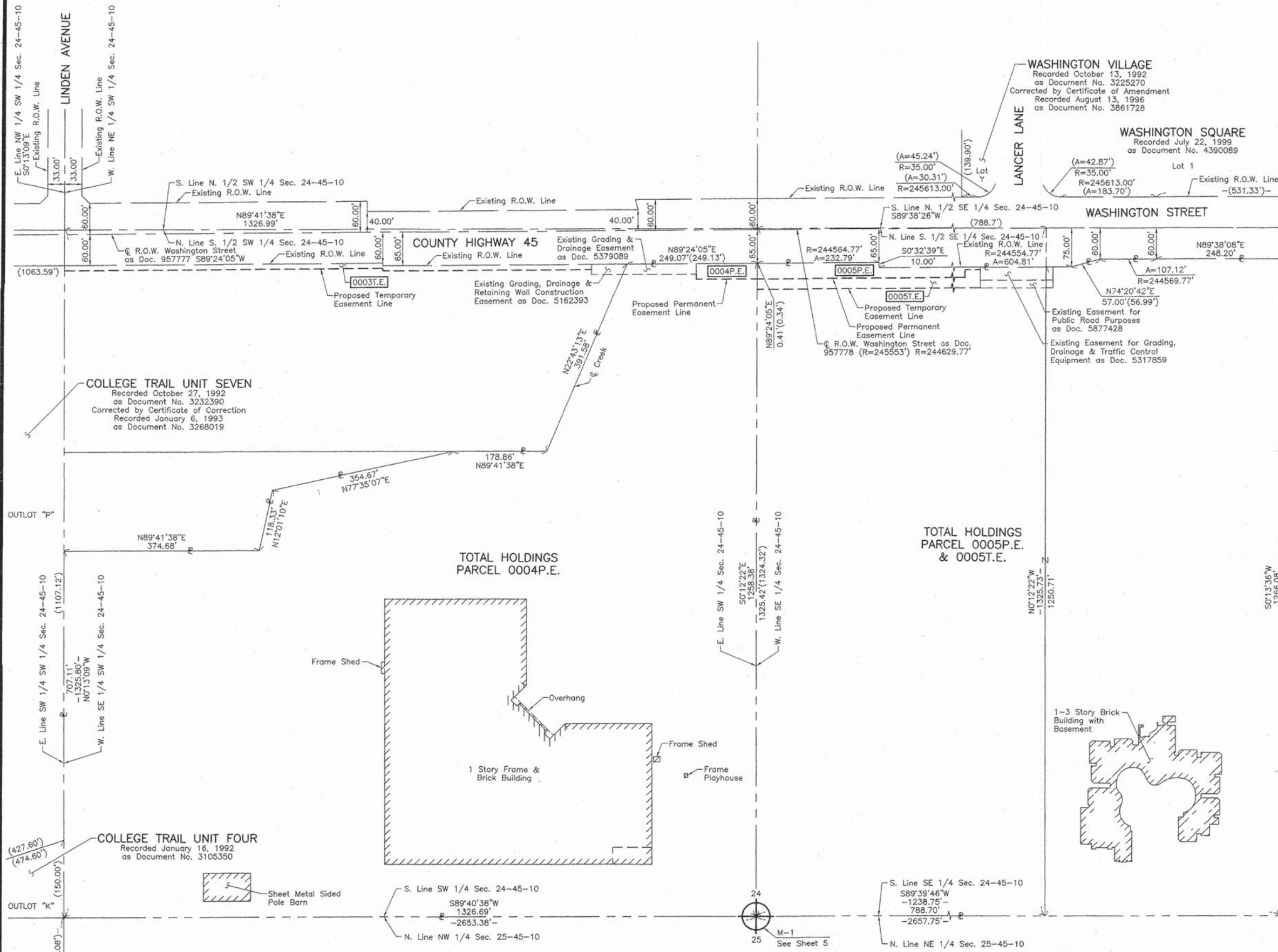
COUNTY ENGINEER

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 WASHINGTON STREET

LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97
 STATION NONE TO STATION
 SCALE: 1"=100' SHEET 7 OF 9

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



LEGEND

SECTION CORNER: 9/10, 16/15

QUARTER SECTION CORNER: 16, 15

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE

API: APPARENT PROPERTY LINE
 EXISTING CENTER LINE
 PROPOSED CENTER LINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 EXISTING EASEMENT
 PROPOSED EASEMENT
 EXISTING ACCESS CONTROL LINE
 PROPOSED ACCESS CONTROL LINE
 MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND: T1, T2, T3
 CUT CROSS FOUND OR SET: BT1, BT2, BT3

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

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

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

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

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

RIGHT OF WAY STAKING PROPOSED TO BE SET.

SCALE: 1"=100'

STATE OF ILLINOIS }
 COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12TH DAY OF March 2014 A.D.

CHRISTIAN H. JORGENSEN
 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS
 LAKE VILLA, ILLINOIS

CHRISTIAN H. JORGENSEN PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

STATE OF ILLINOIS }
 COUNTY OF LAKE }SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.

DATED THIS _____ DAY OF _____ 20__ A.D.

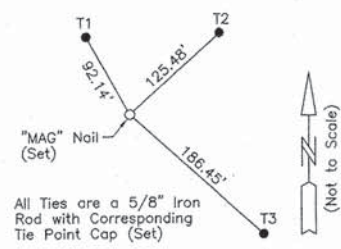
COUNTY ENGINEER

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

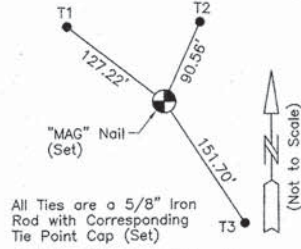
PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 WASHINGTON STREET

LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97
 STATION NONE TO STATION
 SCALE: 1"=100' SHEET 8 OF 9

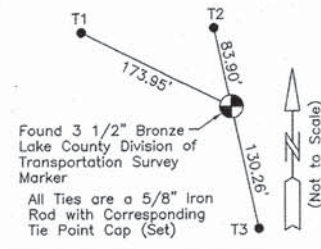
BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196



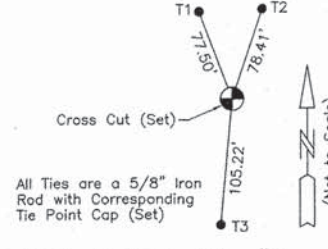
Exist. & Prop. P.C. #1
Washington Street
Sta. 55+59.87
N.2,074,112.153-E.1,067,829.155



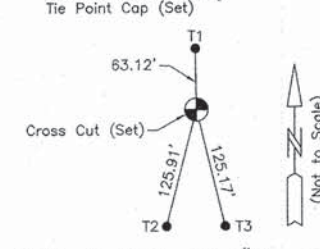
Exist. & Prop. P.I. #1
Washington Street
Sta. 56+15.19
N.2,074,114.332-E.1,067,884.429



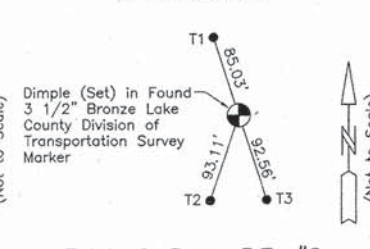
Exist. & Prop. P.T. #1
Washington Street
Sta. 56+70.50
N.2,074,114.910-E.1,067,939.743



Exist. & Prop. P.C. #2
Washington Street
Sta. 82+13.90
N.2,074,141.483-E.1,070,483.007



Exist. & Prop. P.I. #2
Washington Street
Sta. 87+13.90
N.2,074,146.706-E.1,070,982.976



Exist. & Prop. P.T. #2
Washington Street
Sta. 92+13.89
N.2,074,149.886-E.1,071,482.963

LEGEND

SECTION CORNER: 910/1615
QUARTER CORNER: 16/15

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE

APL
APPARENT PROPERTY LINE
EXISTING CENTER LINE
PROPOSED CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
MEASURED DIMENSION
COMPUTED DIMENSION
RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. DATED AT LAKE VILLA, ILLINOIS THIS 22ND DAY OF March, 2014 A.D.

CHRISTIAN H. JORGENSEN
2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS
LAKE VILLA, ILLINOIS

CHRISTIAN H. JORGENSEN PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown
Project Average Combined Scale Factor 0.999951704

STATE OF ILLINOIS }
COUNTY OF LAKE }SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.
DATED THIS _____ DAY OF _____ 20__ A.D.

COUNTY ENGINEER

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WASHINGTON STREET

LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE
SECTION: 09-00135-11-BT JOB NO.: R-55-001-97
STATION 55+59.87 TO STATION 92+13.89
SCALE: 1"=100' SHEET 9 OF 9

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

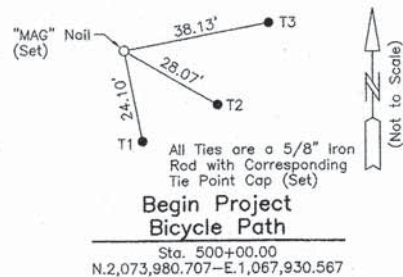
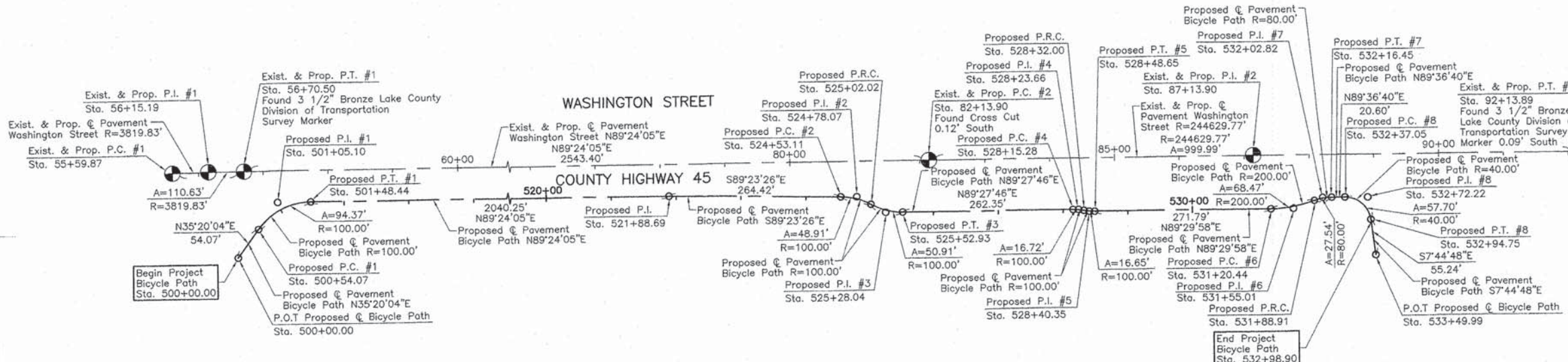
MADE BY

Existing & Proposed Pavement Washington Street Curve #1

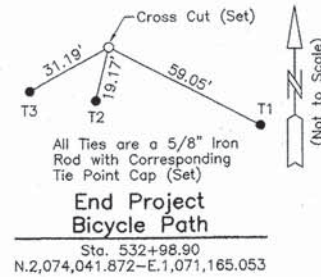
P.I. = Sta. 56+15.19
Δ = 1'39"34"
R = 3819.83'
T = 55.32'
L = 110.63'
E = 0.40'
P.C. = Sta. 55+59.87
P.T. = Sta. 56+70.50

Existing & Proposed Pavement Washington Street Curve #2

P.I. = Sta. 87+13.90
Δ = 0'14"03"
R = 244629.77'
T = 500.00'
L = 999.99'
E = 0.51'
P.C. = Sta. 82+13.90
P.T. = Sta. 92+13.89



Begin Project Bicycle Path
Sta. 500+00.00
N.2,073,980.707-E.1,067,930.567



End Project Bicycle Path
Sta. 532+98.90
N.2,074,041.872-E.1,071,165.053

Proposed Pavement Bicycle Path Curve #1

P.I. = Sta. 501+05.10
Δ = 54'04"01"
R = 100.00'
T = 51.03'
L = 94.37'
E = 12.27'
P.C. = Sta. 500+54.07
P.T. = Sta. 501+48.44

Proposed Pavement Bicycle Path Curve #2

P.I. = Sta. 524+78.07
Δ = 28'01"25"
R = 100.00'
T = 24.96'
L = 48.91'
E = 3.07'
P.C. = Sta. 524+53.11
P.R.C. = Sta. 525+02.02

Proposed Pavement Bicycle Path Curve #3

P.I. = Sta. 525+28.04
Δ = 29'10"14"
R = 100.00'
T = 26.02'
L = 50.91'
E = 3.33'
P.R.C. = Sta. 525+02.02
P.T. = Sta. 525+52.93

Proposed Pavement Bicycle Path Curve #4

P.I. = Sta. 528+23.66
Δ = 9'34"44"
R = 100.00'
T = 8.38'
L = 16.72'
E = 0.35'
P.C. = Sta. 528+15.28
P.R.C. = Sta. 528+32.00

Proposed Pavement Bicycle Path Curve #5

P.I. = Sta. 528+40.35
Δ = 9'32"32"
R = 100.00'
T = 8.35'
L = 16.65'
E = 0.35'
P.R.C. = Sta. 528+32.00
P.T. = Sta. 528+48.65

Proposed Pavement Bicycle Path Curve #6

P.I. = Sta. 531+55.01
Δ = 19'36"52"
R = 200.00'
T = 34.57'
L = 68.47'
E = 2.97'
P.C. = Sta. 531+20.44
P.R.C. = Sta. 531+88.91

Proposed Pavement Bicycle Path Curve #7

P.I. = Sta. 532+02.82
Δ = 19'43"34"
R = 80.00'
T = 13.91'
L = 27.54'
E = 1.20'
P.R.C. = Sta. 531+88.91
P.T. = Sta. 532+16.45

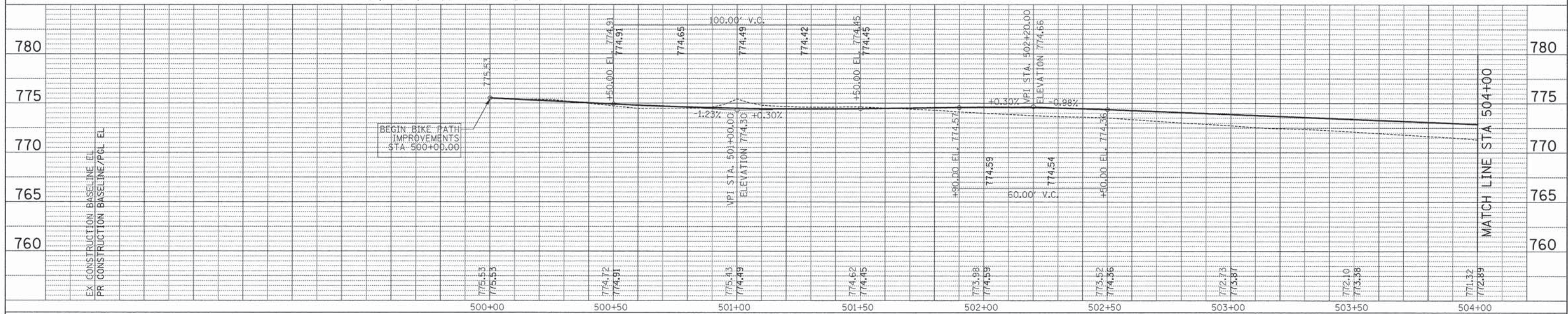
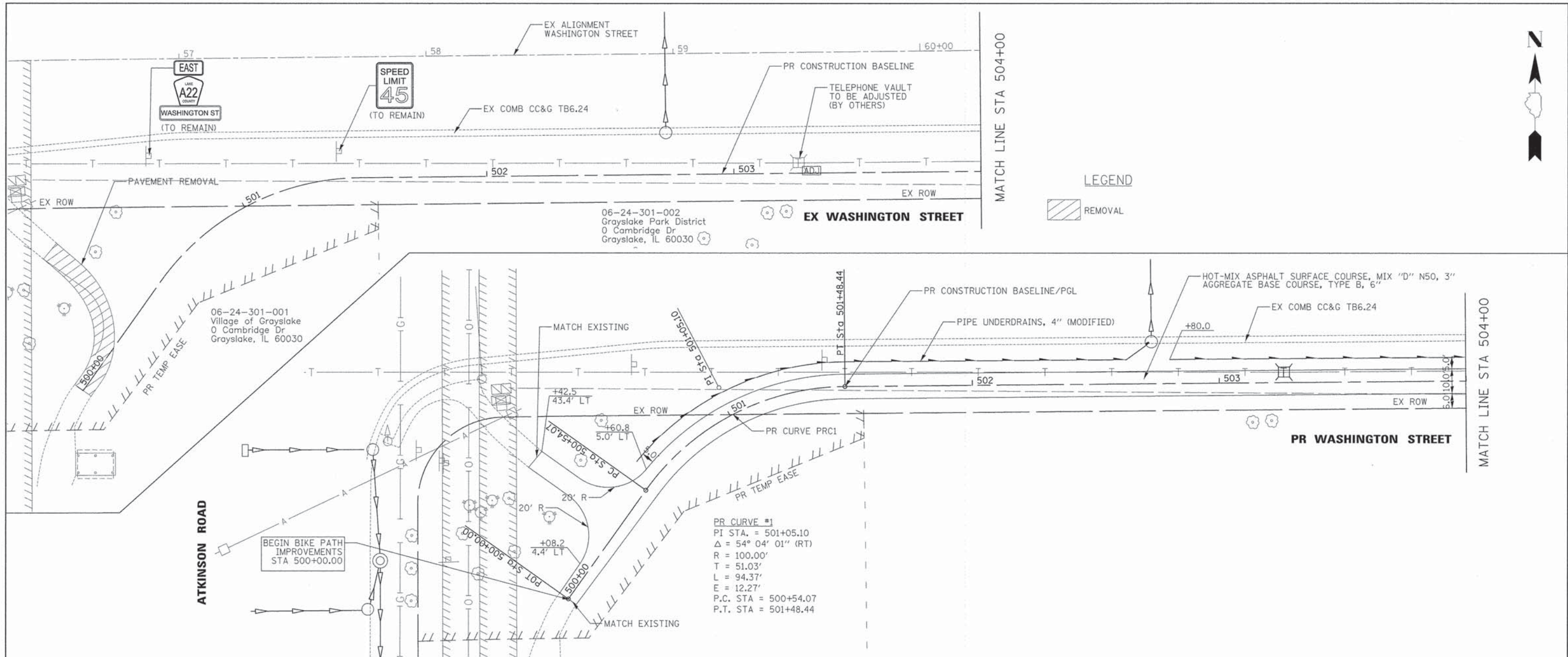
Proposed Pavement Bicycle Path Curve #8

P.I. = Sta. 532+72.22
Δ = 82'38"32"
R = 40.00'
T = 35.17'
L = 57.70'
E = 13.26'
P.C. = Sta. 532+37.05
P.T. = Sta. 532+94.75



DATE	
BY	
REVIEWED	
DESIGNED	
PLANNED	
ALIGNED	
CHECKED	
NO. OF WAY	
NO.	

DATE	
BY	
REVIEWED	
DESIGNED	
PLANNED	
CHECKED	
NO. OF WAY	
NO.	



CIVILTECH
450 E Devon Ave, Suite 300
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



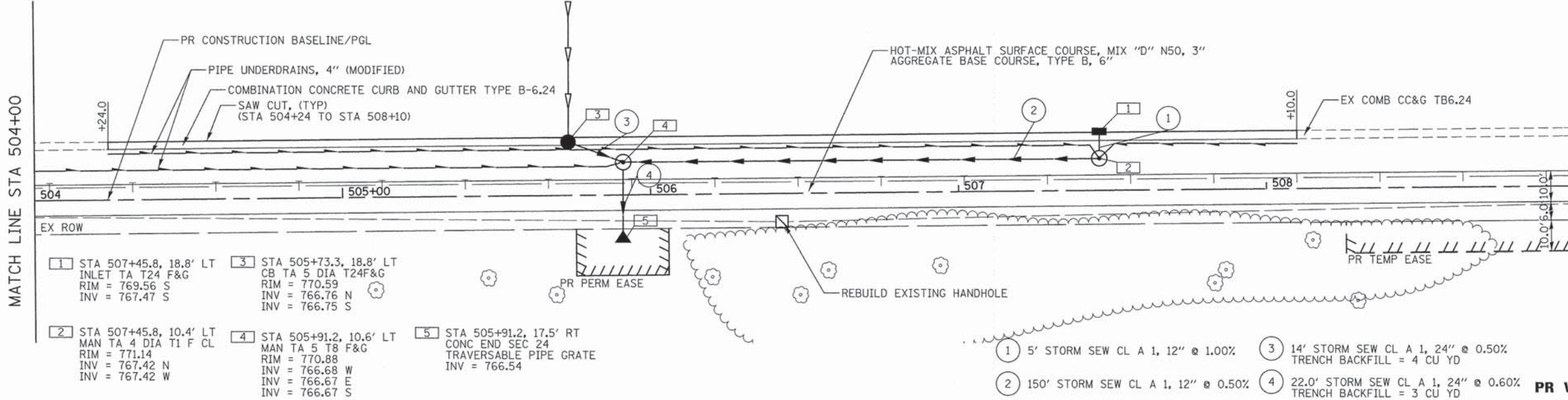
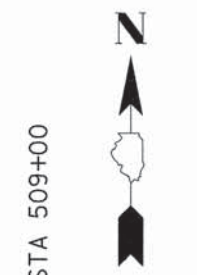
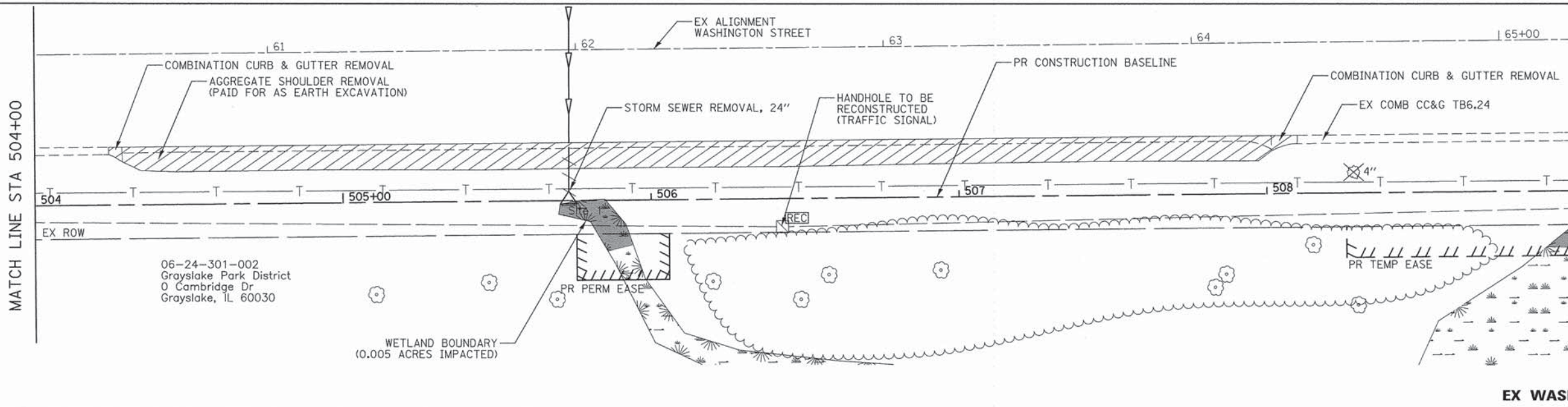
PLAN AND PROFILE

SHEET NO. 1 OF 7 SHEETS STA. 500+00 TO STA. 504+00

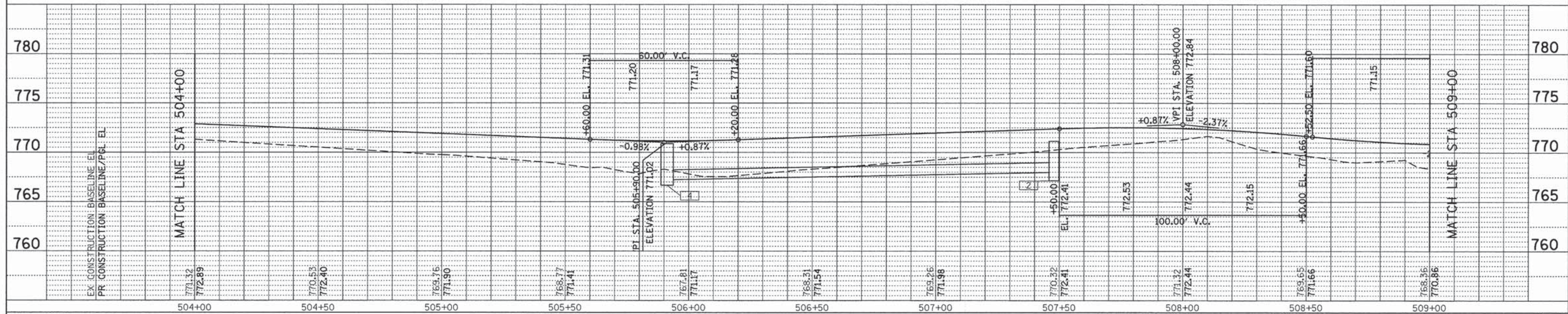
F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 20
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

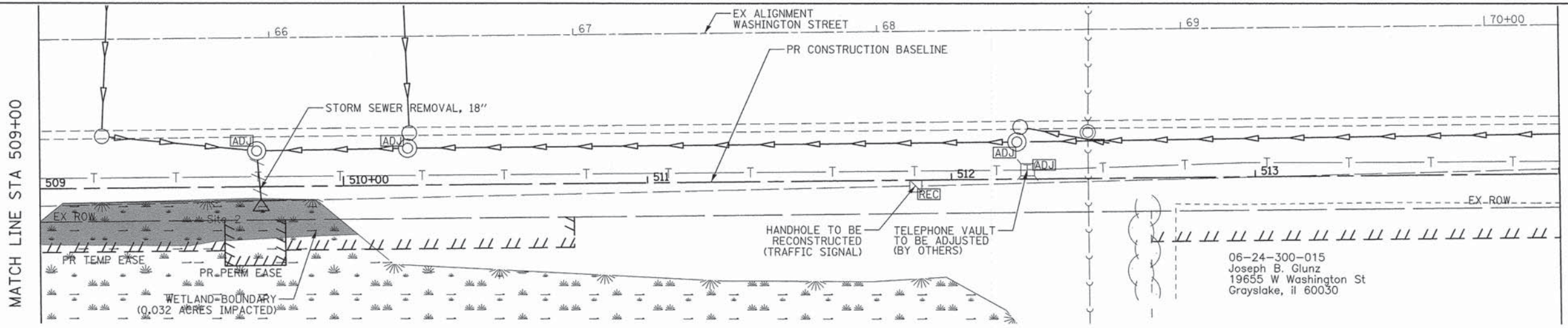
DATE	
BY	
APPROVED	
PLAN	
NOTE BOOK	
NO.	
NO.	

DATE	
BY	
APPROVED	
PROFILE	
NOTE BOOK	
NO.	
NO.	

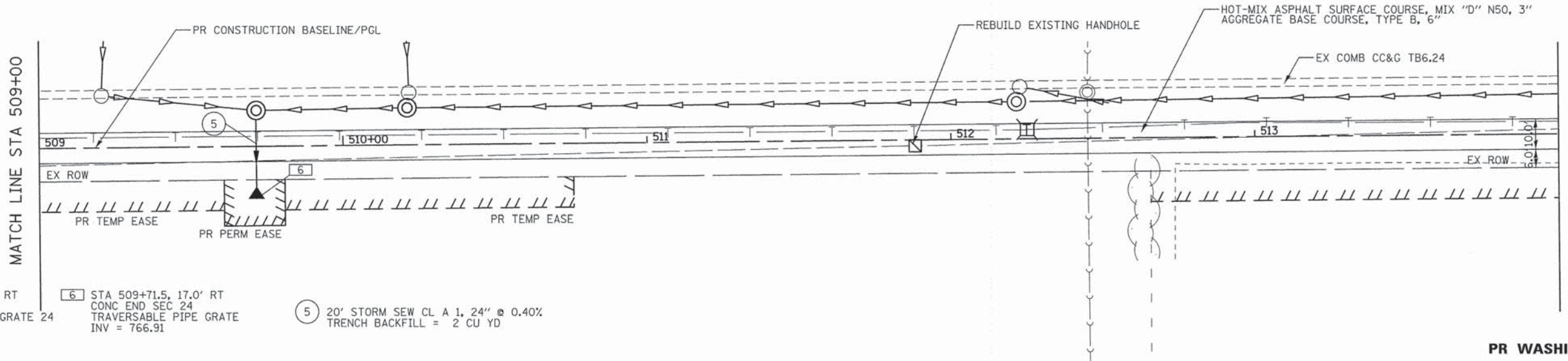


- | | | |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1 STA 507+45.8, 18.8' LT
INLET TA T24 F&G
RIM = 769.56 S
INV = 767.47 S | 3 STA 505+73.3, 18.8' LT
CB TA 5 DIA T24F&G
RIM = 770.59
INV = 766.76 N
INV = 766.75 S | 5 STA 505+91.2, 17.5' RT
CONC END SEC 24
TRAVERSABLE PIPE GRATE
INV = 766.54 |
| 2 STA 507+45.8, 10.4' LT
MAN TA 4 DIA T1 F CL
RIM = 771.14
INV = 767.42 N
INV = 767.42 W | 4 STA 505+91.2, 10.6' LT
MAN TA 5 T8 F&G
RIM = 770.88
INV = 766.68 W
INV = 766.67 E
INV = 766.67 S | |
- 1 5' STORM SEW CL A 1, 12" @ 1.00% 3 14' STORM SEW CL A 1, 24" @ 0.50%
 TRENCH BACKFILL = 4 CU YD
- 2 150' STORM SEW CL A 1, 12" @ 0.50% 4 22.0' STORM SEW CL A 1, 24" @ 0.60%
 TRENCH BACKFILL = 3 CU YD



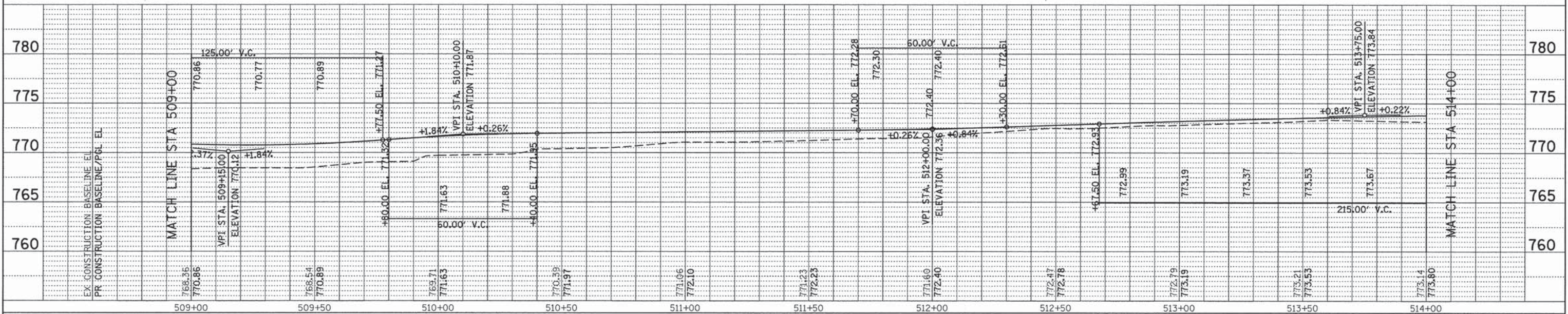


EX WASHINGTON STREET



PR WASHINGTON STREET

- 5 STA 505+91.2, 17.5' RT CONC END SEC 24 TRAVERSABLE PIPE GRATE 24 INV = 766.54
- 6 STA 509+71.5, 17.0' RT CONC END SEC 24 TRAVERSABLE PIPE GRATE 24 INV = 766.91
- 5 20' STORM SEW CL A 1, 24" @ 0.40% TRENCH BACKFILL = 2 CU YD



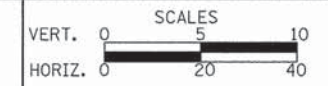
DATE	
BY	
SUBMITTED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
PROFILING	
NOTED	
NO.	

CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



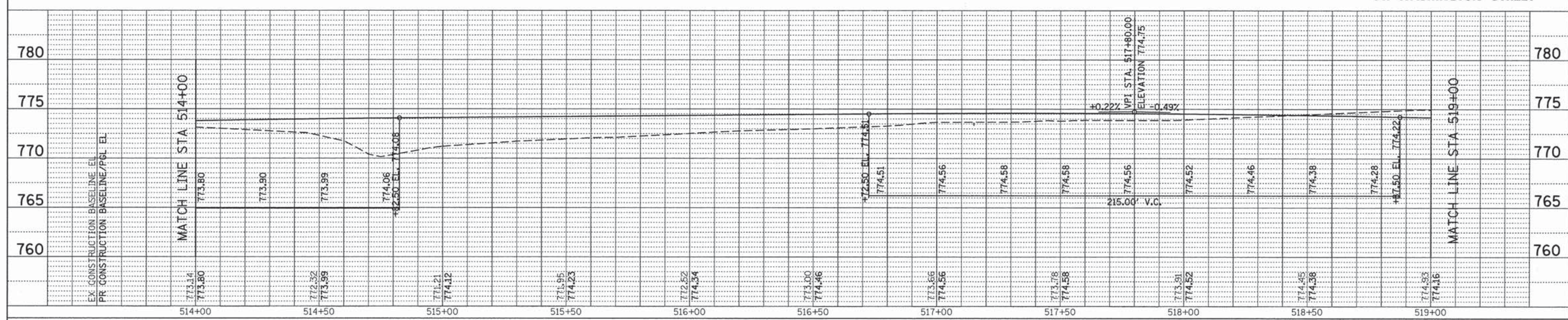
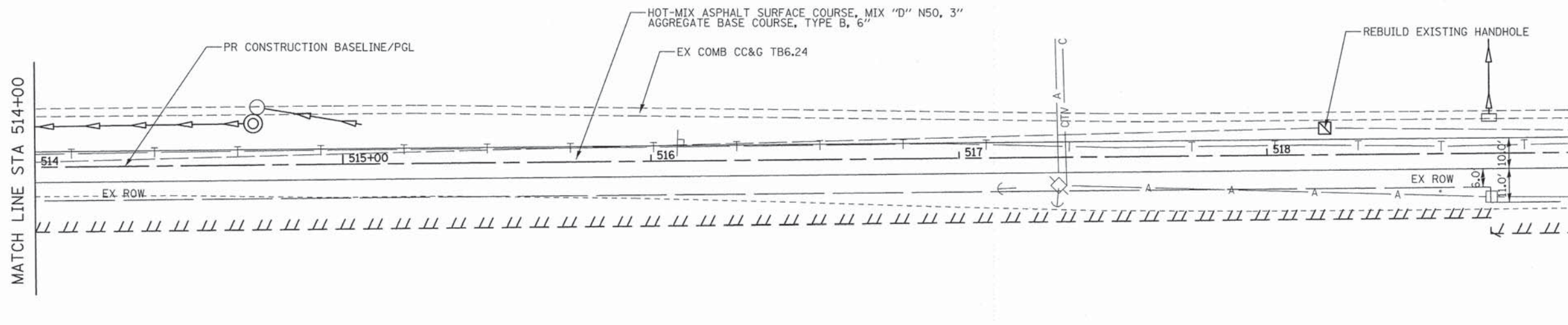
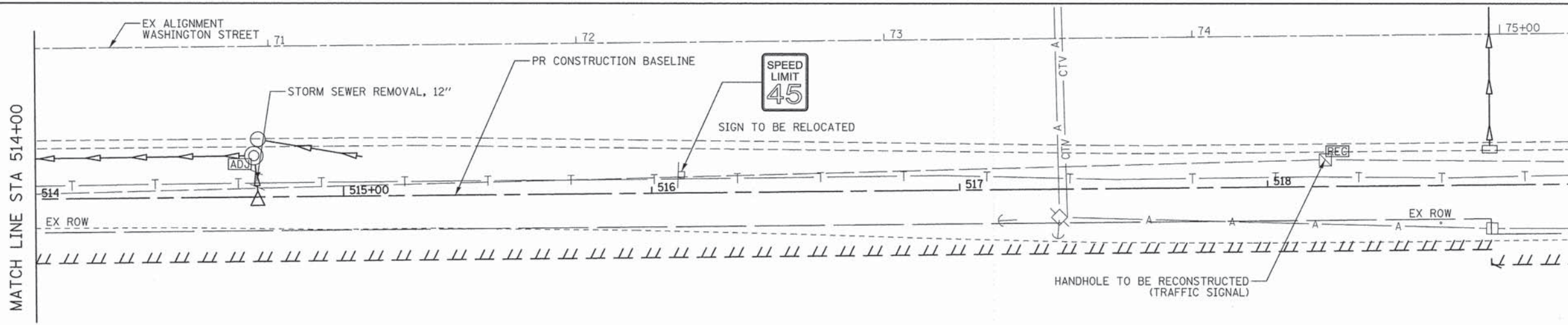
PLAN AND PROFILE

SHEET NO. 3 OF 7 SHEETS STA. 509+00 TO STA. 514+00

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 22
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	
NOTE BOOK NO.	
PLAN NO.	
DATE	
BY	
SURVEYED	
DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	
NOTE BOOK NO.	
PLAN NO.	

DATE	
BY	
SURVEYED	
DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	
NOTE BOOK NO.	
PROFILE NO.	
DATE	
BY	
SURVEYED	
DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	
NOTE BOOK NO.	
PROFILE NO.	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



PLAN AND PROFILE

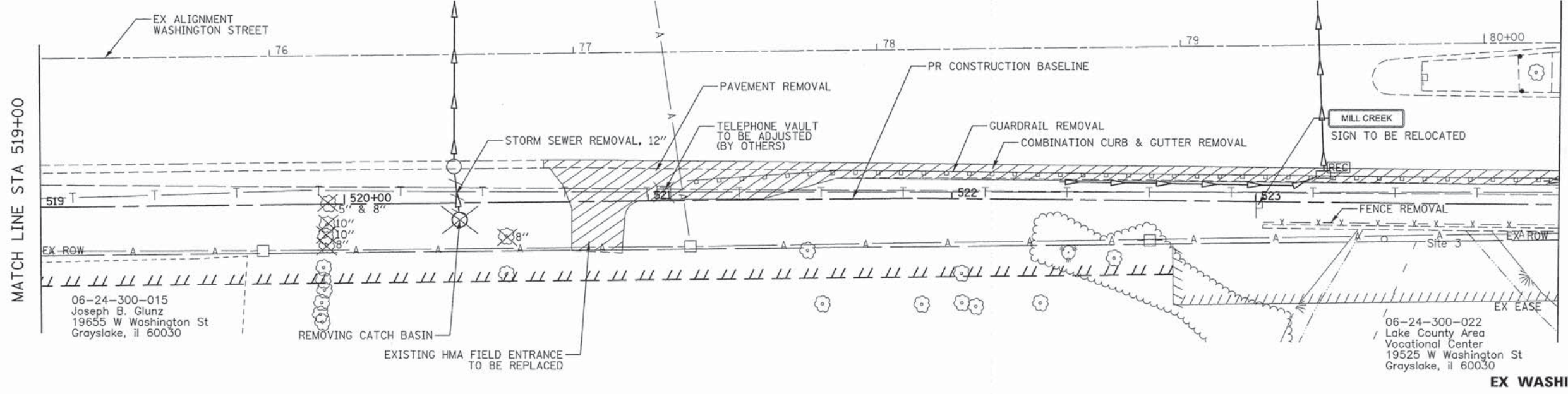
SHEET NO. 4 OF 7 SHEETS STA. 514+00 TO STA. 519+00

F.A.I. RTF-1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 23
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



DATE	
BY	
SUBMITTED	
PLANNED	
NOTED	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
GRADES	
NO.	
NO.	
NO.	
NO.	
NO.	



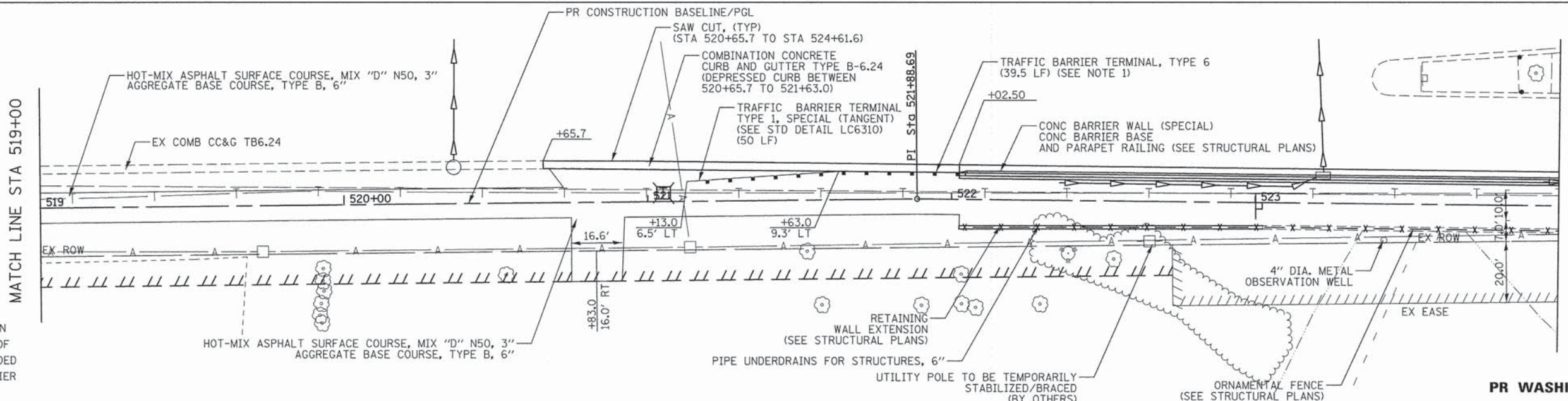
LEGEND

⊗ X" TREE REMOVAL

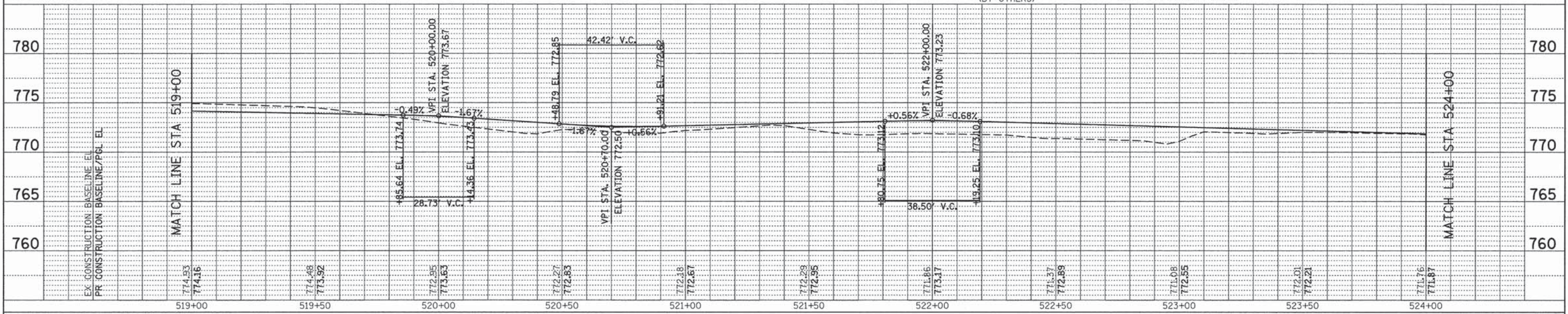
▨ REMOVAL

06-24-300-015
Joseph B. Glunz
19655 W Washington St
Grayslake, IL 60030

06-24-300-022
Lake County Area
Vocational Center
19525 W Washington St
Grayslake, IL 60030

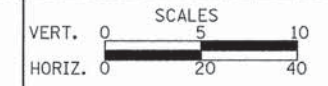


NOTE 1:
A RUB RAIL ON THE PATH SIDE OF THE GUARD RAIL SHALL BE CONSTRUCTED AT THE DIRECTION OF THE ENGINEER. THE COST OF THE RUB RAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC BARRIER TERMINAL, TYPE 6.



DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



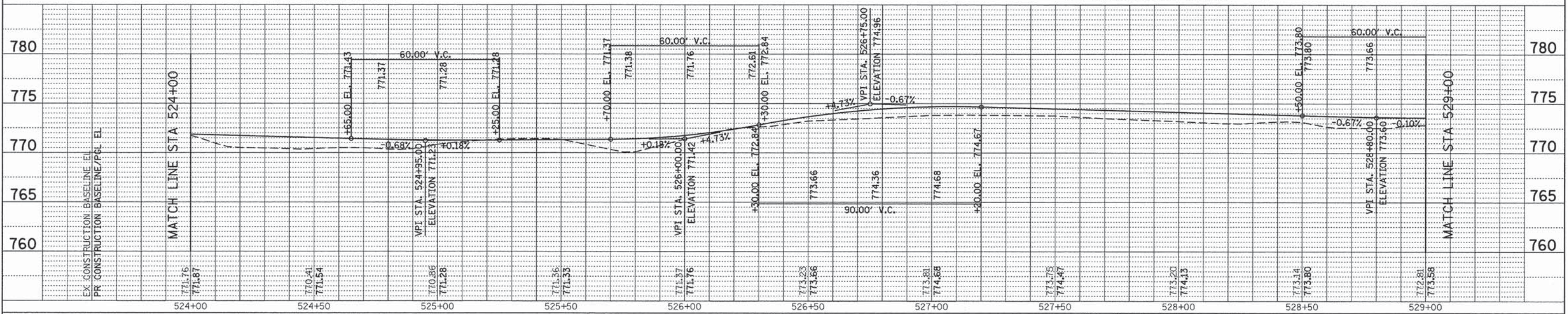
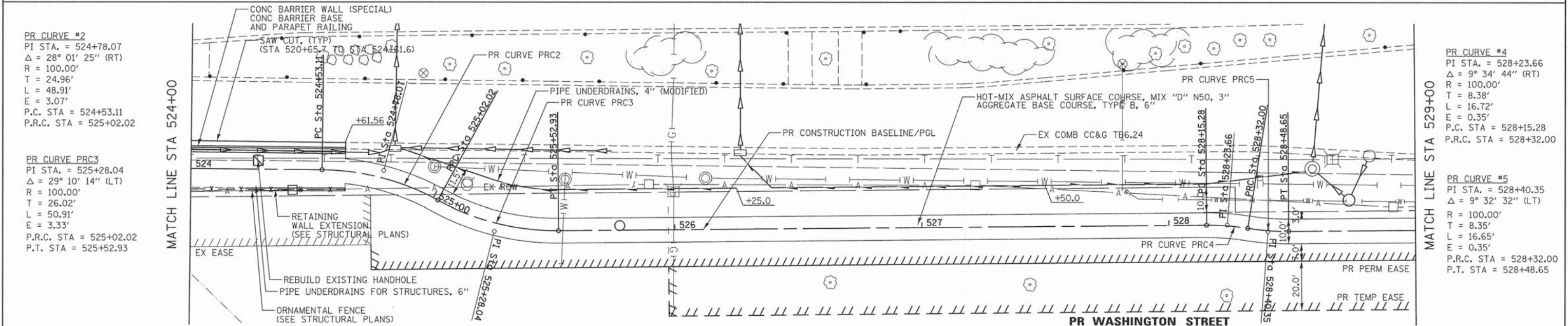
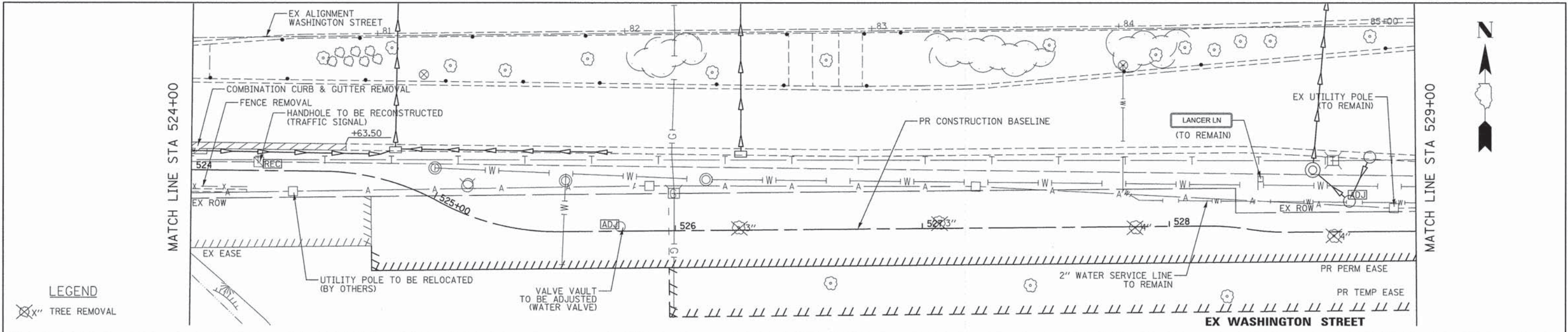
PLAN AND PROFILE

SHEET NO. 5 OF 7 SHEETS STA. 519+00 TO STA. 524+00

F.A.J. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 24
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	

DATE	
BY	
PROF. CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR
 DRAWN - JRR
 CHECKED - RTM
 DATE - 03/24/2014

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



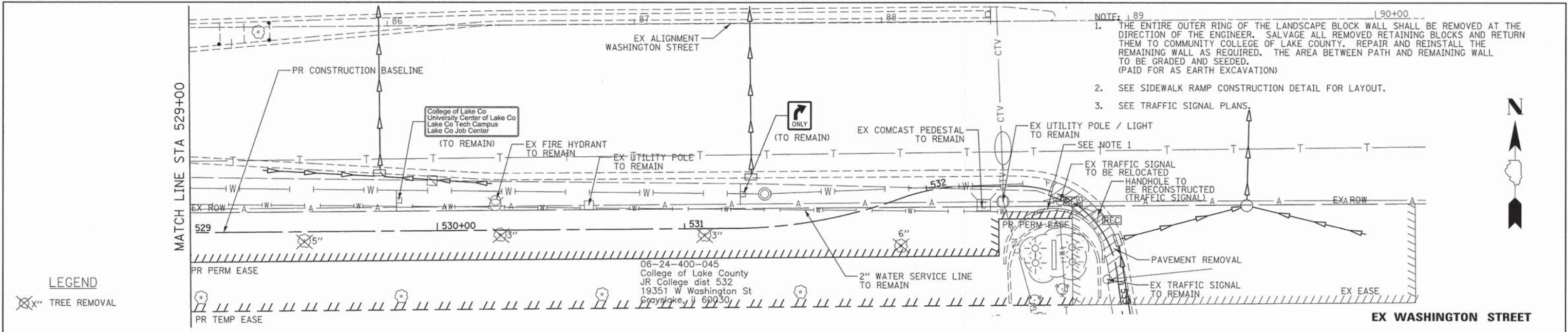
PLAN AND PROFILE

SHEET NO. 6 OF 7 SHEETS STA. 524+00 TO STA. 529+00

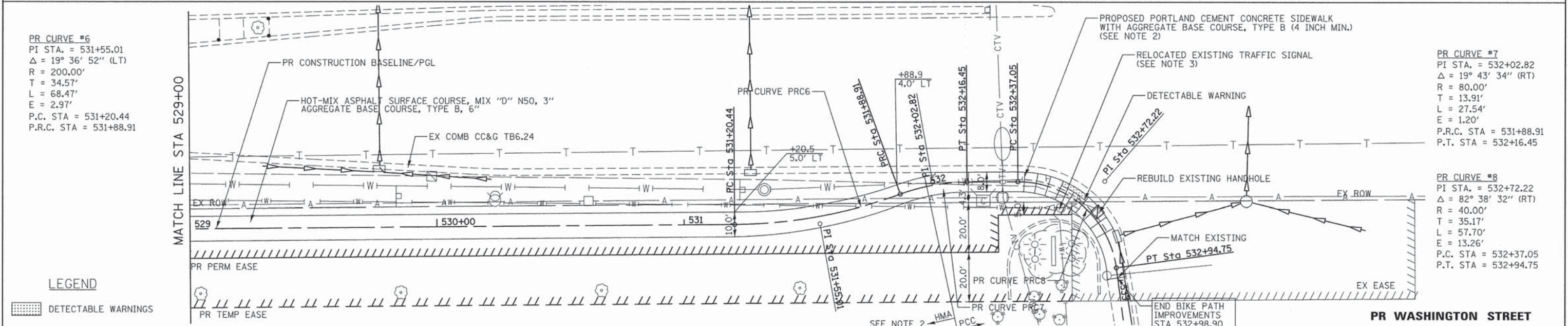
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	25
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

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

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



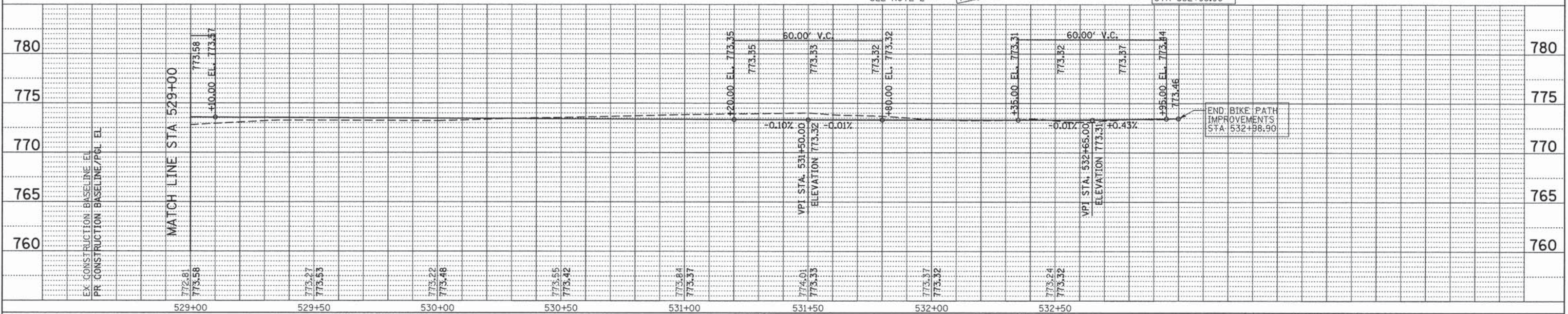
- NOTE: 89
1. THE ENTIRE OUTER RING OF THE LANDSCAPE BLOCK WALL SHALL BE REMOVED AT THE DIRECTION OF THE ENGINEER. SALVAGE ALL REMOVED RETAINING BLOCKS AND RETURN THEM TO COMMUNITY COLLEGE OF LAKE COUNTY. REPAIR AND REINSTALL THE REMAINING WALL AS REQUIRED. THE AREA BETWEEN PATH AND REMAINING WALL TO BE GRADED AND SEEDED. (PAID FOR AS EARTH EXCAVATION)
 2. SEE SIDEWALK RAMP CONSTRUCTION DETAIL FOR LAYOUT.
 3. SEE TRAFFIC SIGNAL PLANS.



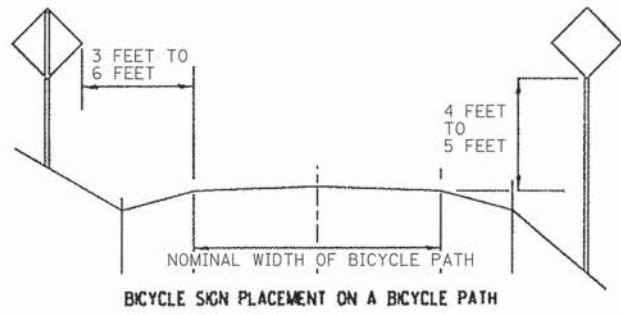
PR CURVE #6
 PI STA. = 531+55.01
 $\Delta = 19^\circ 36' 52''$ (LT)
 R = 200.00'
 T = 34.57'
 L = 68.47'
 E = 2.97'
 P.C. STA = 531+20.44
 P.R.C. STA = 531+88.91

PR CURVE #7
 PI STA. = 532+02.82
 $\Delta = 19^\circ 43' 34''$ (RT)
 R = 80.00'
 T = 13.91'
 L = 27.54'
 E = 1.20'
 P.R.C. STA = 531+88.91
 P.T. STA = 532+16.45

PR CURVE #8
 PI STA. = 532+72.22
 $\Delta = 82^\circ 38' 32''$ (RT)
 R = 40.00'
 T = 35.17'
 L = 57.70'
 E = 13.26'
 P.C. STA = 532+37.05
 P.T. STA = 532+94.75



BICYCLE PATH CONSTRUCTION SIGNING



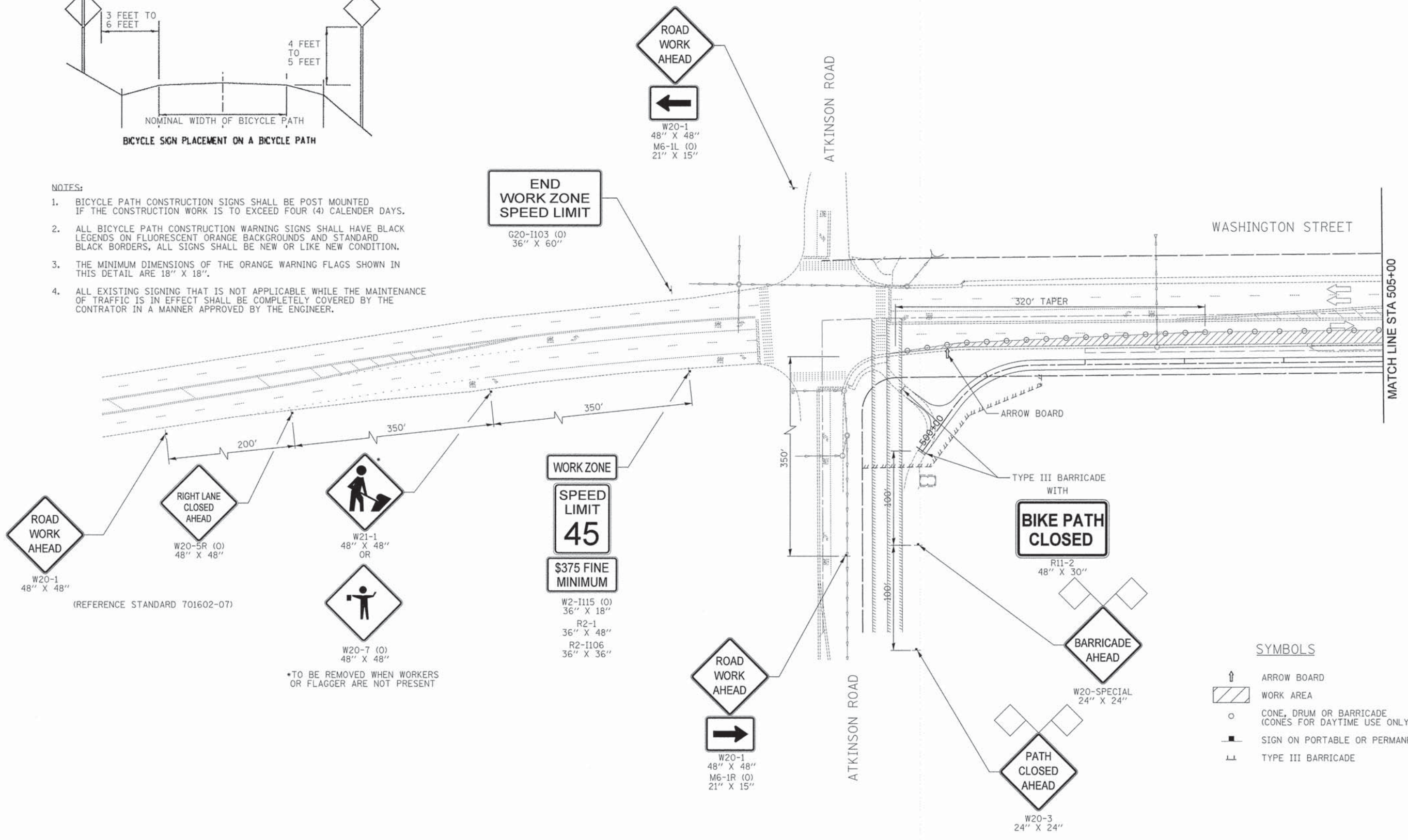
BICYCLE SIGN PLACEMENT ON A BICYCLE PATH

NOTES:

1. BICYCLE PATH CONSTRUCTION SIGNS SHALL BE POST MOUNTED IF THE CONSTRUCTION WORK IS TO EXCEED FOUR (4) CALENDER DAYS.
2. ALL BICYCLE PATH CONSTRUCTION WARNING SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE BACKGROUNDS AND STANDARD BLACK BORDERS, ALL SIGNS SHALL BE NEW OR LIKE NEW CONDITION.
3. THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THIS DETAIL ARE 18" X 18".
4. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE MAINTENANCE OF TRAFFIC IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRATOR IN A MANNER APPROVED BY THE ENGINEER.

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
NOTE BOOK	
NO.	
DATE	
BY	
NOTE BOOK	
NO.	

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
NOTE BOOK	
NO.	
DATE	
BY	
NOTE BOOK	
NO.	



*TO BE REMOVED WHEN WORKERS OR FLAGGER ARE NOT PRESENT

SYMBOLS

- ARROW BOARD
- WORK AREA
- CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE

DESIGNED -	JRR	REVISED -	
DRAWN -	JRR	REVISED -	
CHECKED -	RTM	REVISED -	
DATE -	03/24/2014	REVISED -	

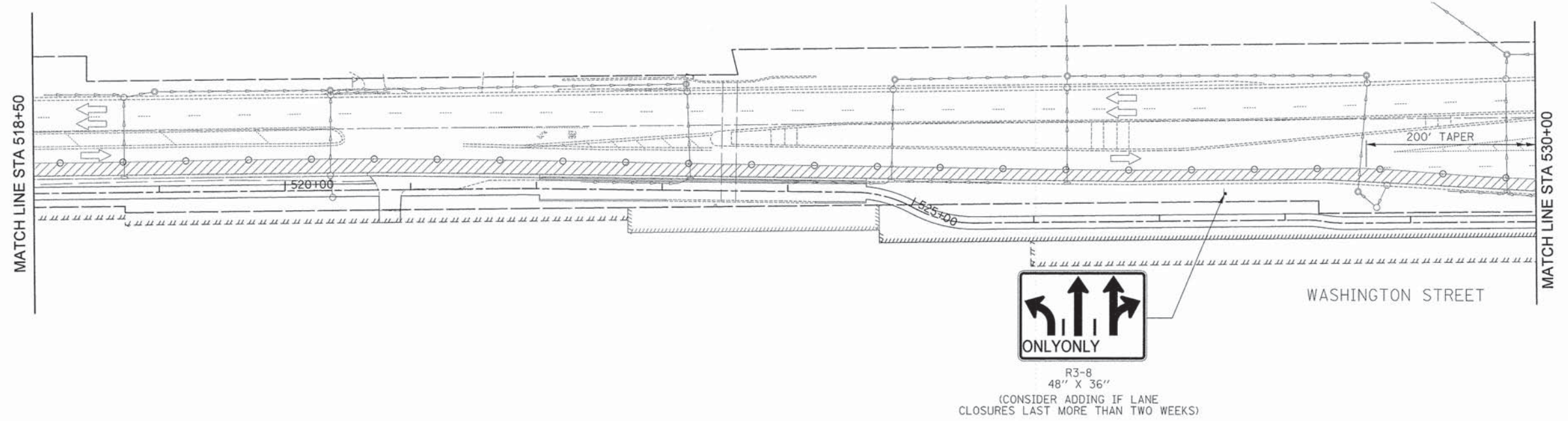
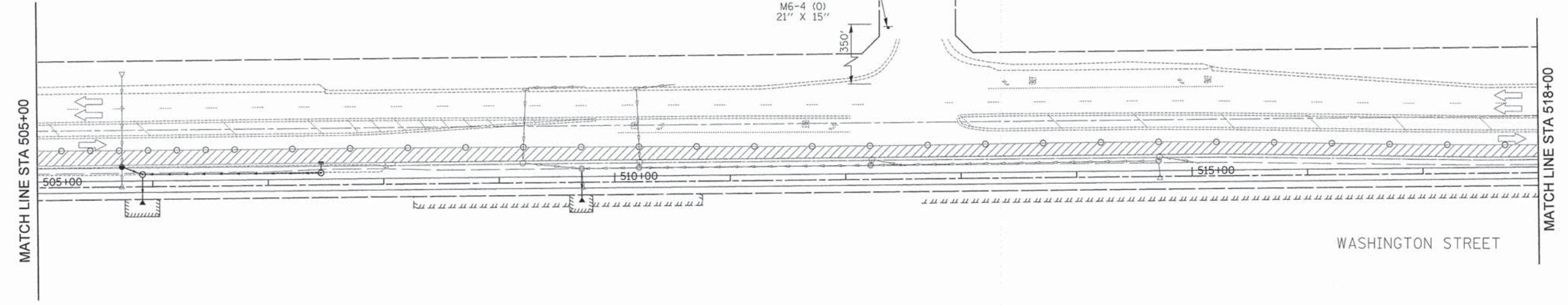


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	27
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	SUBMITTED	BY	DATE
NO.	NO.		
CHECKED ALIGNED PART OF WAY ROAD LINE			

PROFILE	DESIGNED	BY	DATE
NO.	NO.		
CHECKED PLOTTED GRADES B.M. NOTED STRUCTURE NOTED			



R3-8
48" X 36"
(CONSIDER ADDING IF LANE CLOSURES LAST MORE THAN TWO WEEKS)

CIVILTECH
450 E Devon Ave, Suite 300
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



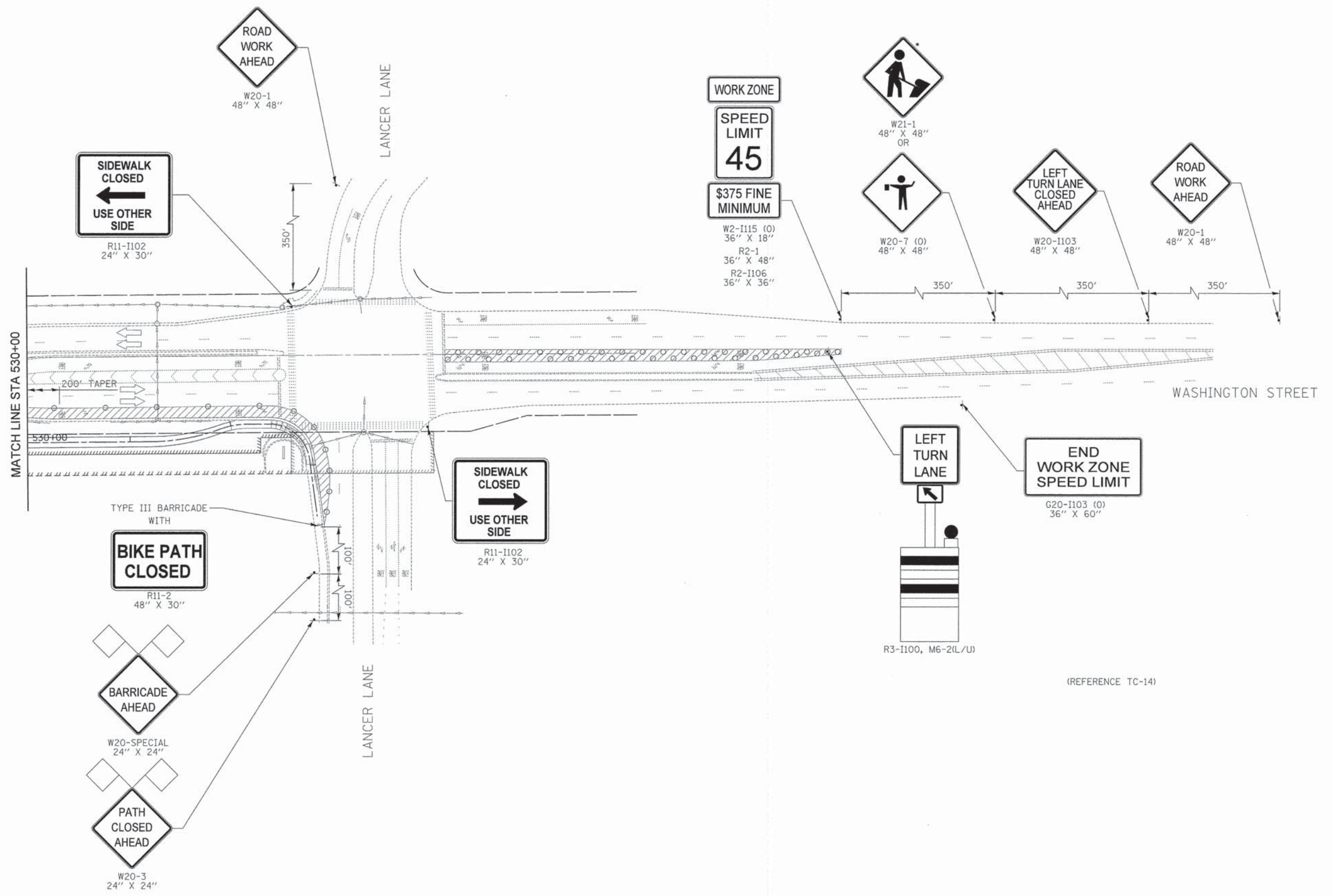
MAINTENANCE OF TRAFFIC

SHEET NO. 2 OF 3 SHEETS STA. 505+00 TO STA. 530+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	28
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



• TO BE REMOVED WHEN WORKERS OR FLAGGER ARE NOT PRESENT



PLAN	NO. _____	DATE _____
BY _____	DATE _____	DATE _____
REVISIONS	NO.	DATE
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____

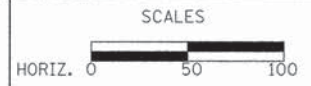
PROFILE	NO. _____	DATE _____
BY _____	DATE _____	DATE _____
REVISIONS	NO.	DATE
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____



450 E Devon Ave, Suite 300
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MAINTENANCE OF TRAFFIC

SHEET NO. 3 OF 3 SHEETS STA. 530+00 TO STA. 533+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A40	

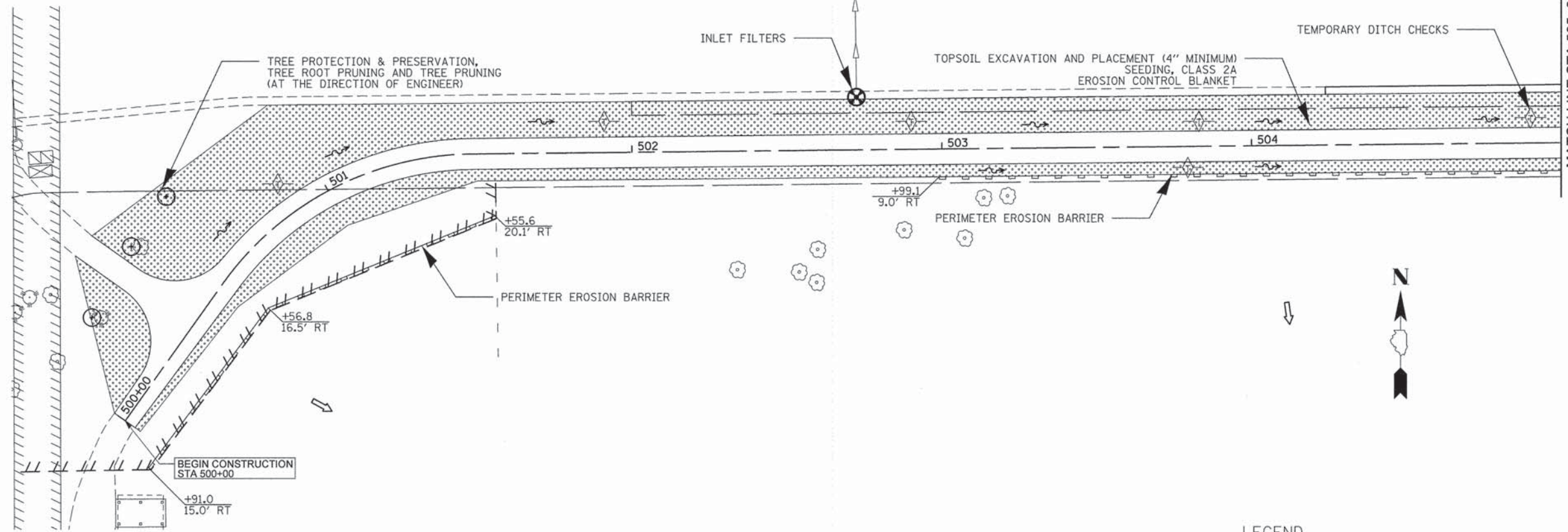
SEDIMENTATION AND EROSION CONTROL NOTES

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
 - AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- D. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- I. INTENTIONALLY LEFT BLANK.
- J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.
- O.

NOTE:

EROSION CONTROL SHEETS REFLECT FINAL LANDSCAPING.

1. PERIMETER EROSION BARRIER SHALL BE INSTALLED 1 FOOT FROM RIGHT-OF-WAY OR EASEMENT. REFERENCE THE PLAT OF HIGHWAY SHEETS FOR STATIONS AND OFFSETS.
- 2.



SMC TYPICAL CONSTRUCTION SEQUENCE

1. Installation of soil erosion and sediment control SE/SC measures
 - a.) Selective vegetation removal for silt fence installation
 - b.) Silt fence installation
 - c.) Construction fencing around areas not to be disturbed
2. Tree removal where necessary (clear & grub)
3. Construct sediment trapping devices (sediment traps, basins...)
4. Intentionally blank
5. Strip topsoil, stockpile topsoil and grade site
6. Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)
7. Install storm sewer, sanitary sewer, water and associated inlet & outlet protection
8. Permanently stabilize detention basins with seed and erosion control blanket
9. Temporarily stabilize all areas including lots that have reached temporary grade
10. Install roadways
11. Permanently stabilize all outlet areas
12. Install structures and grade individual lots
13. Permanently stabilize lots
14. Remove all temporary SE/SC measures after the site is stabilized with vegetation

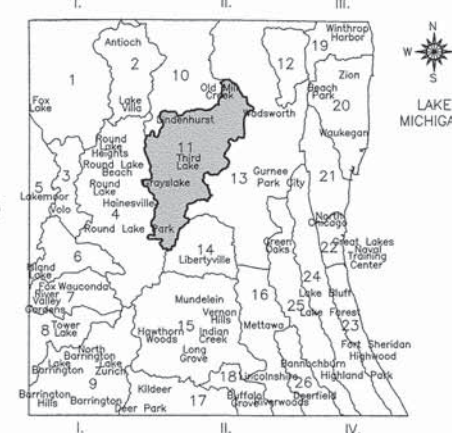
* Soil erosion and sediment control maintenance must occur every two weeks and after every 1/2" or greater rainfall event

NPDES STATEMENT:

THIS PROJECT DISTURBS 2.6 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1.0 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT IS REQUIRED FOR THIS PROJECT.

DRAINAGE BASINS OF LAKE COUNTY

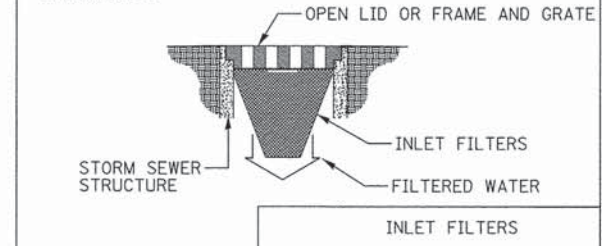
- I. FOX RIVER WATERSHED
 1. Upper Fox River
 2. Sequoit Creek
 3. Fish Lake Drain
 4. Squaw Creek
 5. Lower Fox River
 6. Mutton Creek
 7. Slocum Lake Drain
 8. Tower Lake Drain
 9. Flint Creek
- II. DES PLAINES RIVER WATERSHED
 10. North Mill Creek
 11. Mill Creek
 12. Newport Drainage Ditch
 13. Upper Des Plaines River
 14. Bull Creek
 15. Indian Creek
 16. Lower Des Plaines River
 17. Buffalo Creek
 18. Aptakisic Creek
- III. LAKE MICHIGAN WATERSHED
 19. Kellogg Creek
 20. Dead River
 21. Waukegan River
 22. Pettibone Creek
 23. Bluff/Ravine
- IV. CHICAGO RIVER WATERSHED
 24. Skokie River
 25. Middle Fork
 26. West Fork



LEGEND

- ROADWAY DITCH FLOW
- OVERLAND FLOW DIRECTION
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION (PAID FOR AS 1 INLET FILTER AND 16 LF OF PERIMETER EROSION BARRIER PER IDOT STANDARD 280001-07)
- INLET FILTERS
- PERIMETER EROSION BARRIER
- EXISTING TREES
- TREE PROTECTION & PRESERVATION, TREE ROOT PRUNING AND TREE PRUNING (AT THE DIRECTION OF ENGINEER)
- TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM) SEEDING, CLASS 2A EROSION CONTROL BLANKET

NOTE:
ALL OPEN LID MANHOLES, INLETS AND CATCH BASINS REGARDLESS OF WHETHER THEY ARE DESIGNATED TO BE PROTECTED WITH INLET AND PIPE PROTECTION, ARE TO USE A DRAINAGE STRUCTURE INLET FILTER ASSEMBLY, CONSISTING OF A FRAME AND FILTER BAG, TO COLLECT SEDIMENT IN THE SURFACE STORMWATER RUNOFF AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR SEPARATELY.

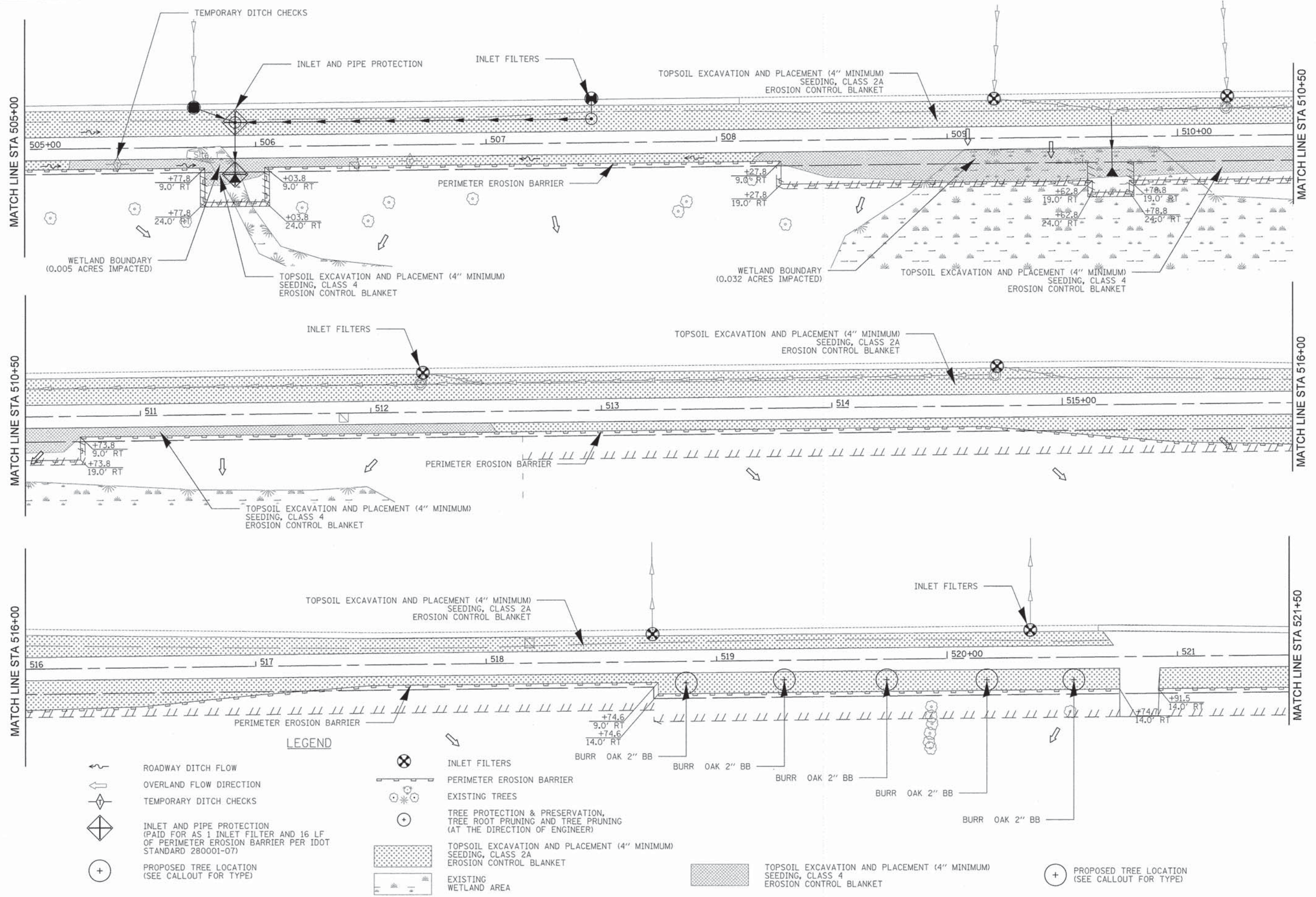


ESTIMATED QUANTITIES:

- 3,178 FEET - PERIMETER EROSION BARRIER
- 2 EACH - INLET AND PIPE PROTECTION
- 16 EACH - INLET FILTERS
- 1.75 ACRE - SEEDING, CLASS 2A
- 0.25 ACRE - SEEDING, CLASS 4
- 8,470 SQ YD - EROSION CONTROL BLANKET
- 5 EACH - FLOCCULATION LOGS
- 15 POUND - FLOCCULATION POWDER
- 10 EACH - TREE PROTECTION & PRESERVATION
- 140 FEET - TEMPORARY DITCH CHECKS

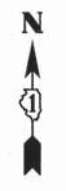
DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	



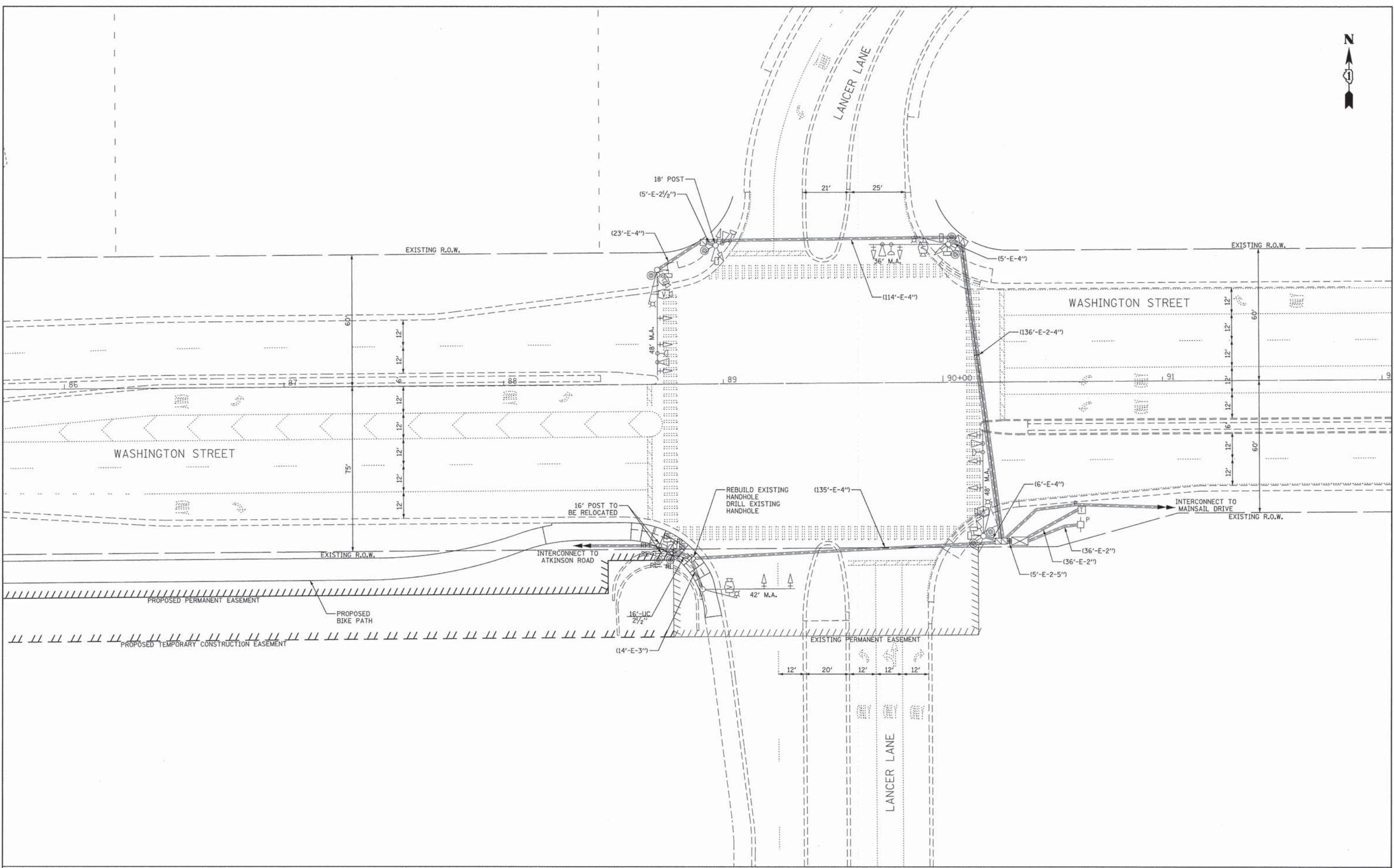
LEGEND

- ROADWAY DITCH FLOW
- OVERLAND FLOW DIRECTION
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION (PAID FOR AS 1 INLET FILTER AND 16 LF OF PERIMETER EROSION BARRIER PER IDOT STANDARD 280001-07)
- PROPOSED TREE LOCATION (SEE CALLOUT FOR TYPE)
- INLET FILTERS
- PERIMETER EROSION BARRIER
- EXISTING TREES
- TREE PROTECTION & PRESERVATION, TREE ROOT PRUNING AND TREE PRUNING (AT THE DIRECTION OF ENGINEER)
- TOPSOIL EXCAVATION AND PLACEMENT (4\"/>



DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NOTE BOOK NO.	
FILE NAME	

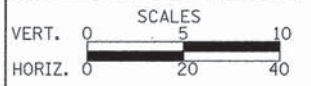
DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - OJT	REVISED -
DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



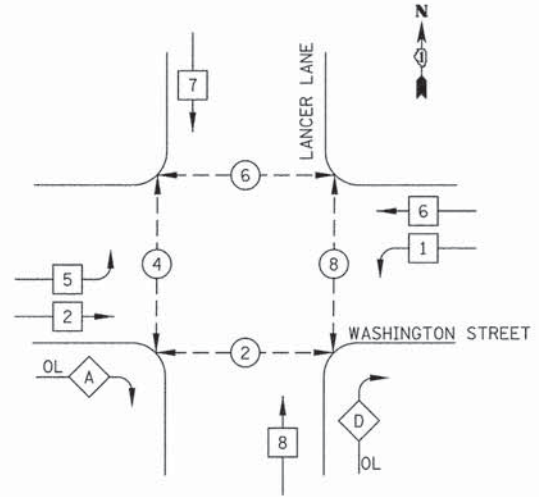
**TRAFFIC SIGNAL MODIFICATION PLAN
 WASHINGTON STREET AT LANCER LANE**

SHEET NO. OF SHEETS STA. TO STA.

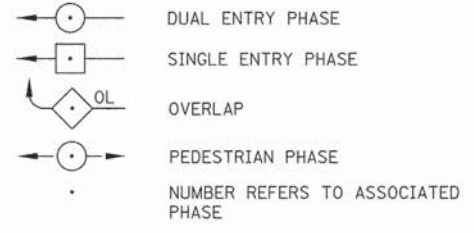
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	33
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND

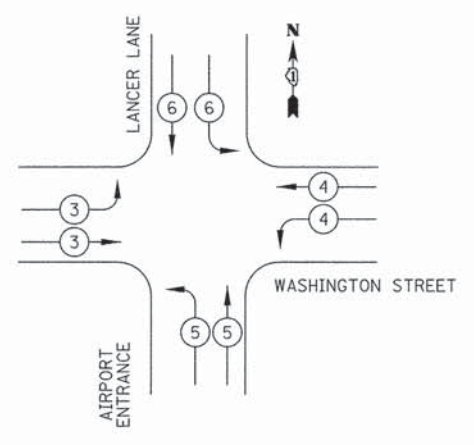


PHASE DESIGNATION DIAGRAM

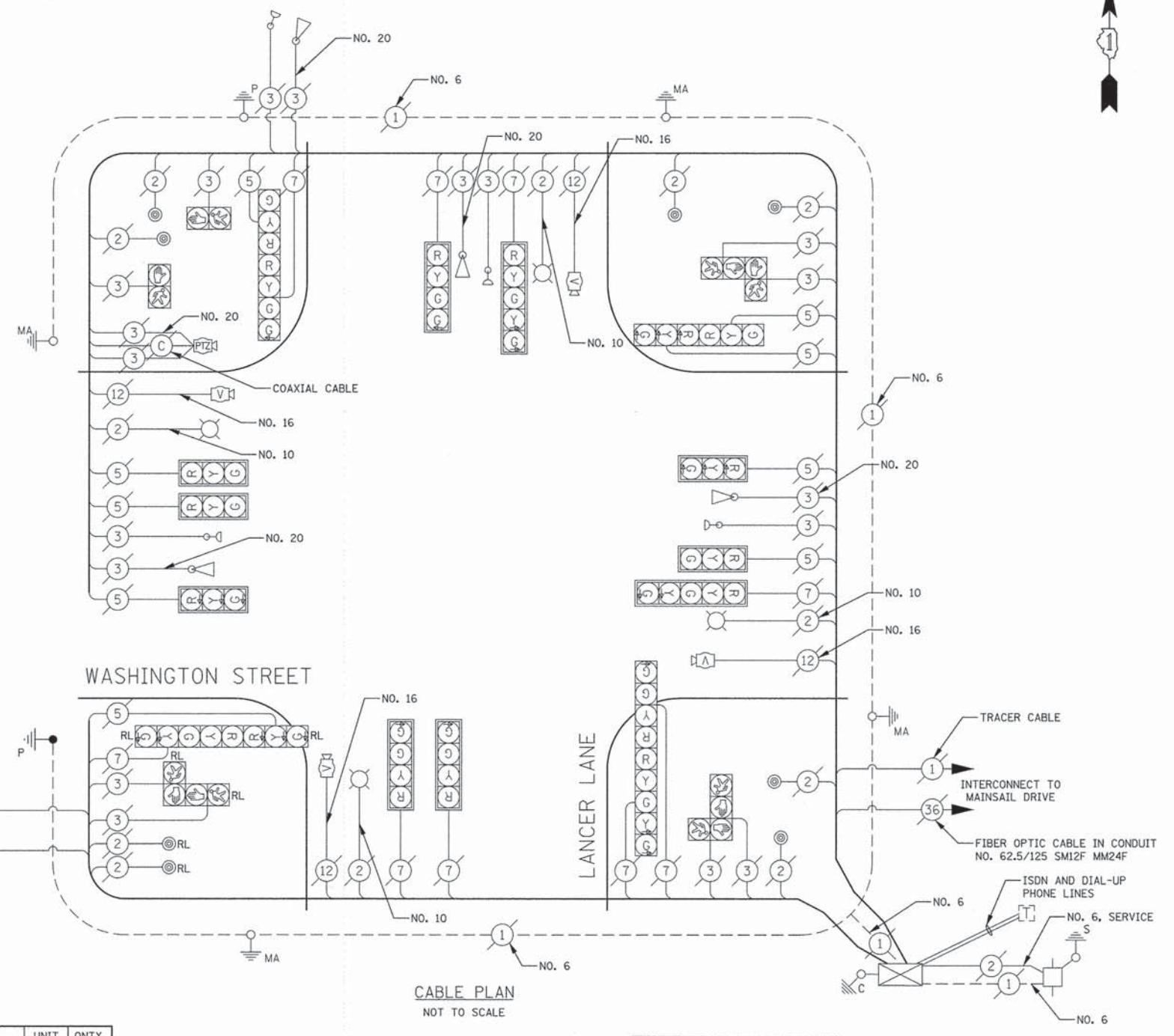
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
D	= 8	+ 1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	16
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
DRILL EXISTING HANDHOLE	FOOT	4
CONCRETE FOUNDATION, TYPE A	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	362
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	18	135	17	50	153
(YELLOW)	14	135	25	25	88
(GREEN)	19	135	15	25	71
ARROW	16	135	12	10	19
CONTROLLER	1	100	100	100	100
VIDEO SYSTEMS	1	150	150	100	150
PED. SIGNAL	8	90	25	100	200
LUMINAIRE	4	250		50	500
TOTAL =					1281

ENERGY COSTS TO: LAKE COUNTY DIVISION OF TRANSPORTATION
600 W. WINCHESTER ROAD
LIBERTYVILLE, IL 60048

ENERGY SUPPLY: CONTACT: JULIE SNOW
PHONE: 847-816-5329
COMPANY: COMMONWEALTH EDISON

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	



DESIGNED - OJT	REVISED -
DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 03/24/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TRAFFIC SIGNAL CABLE PLAN

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

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 34
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

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

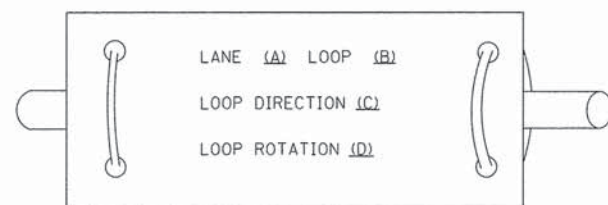
RAILROAD SYMBOLS

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

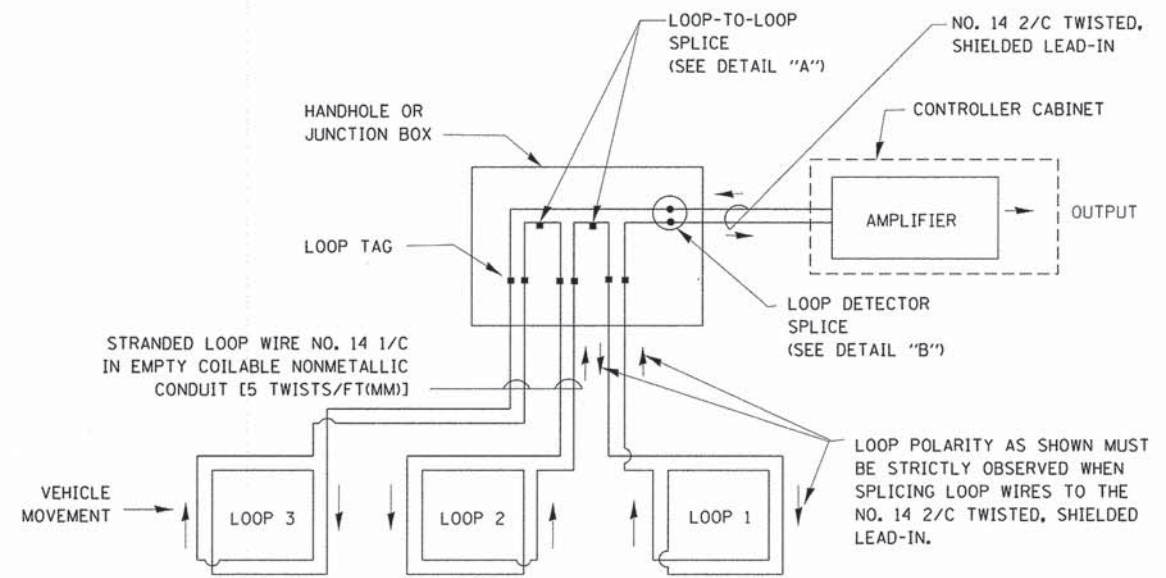
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

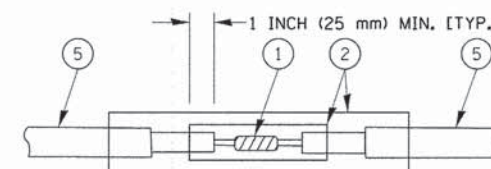


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

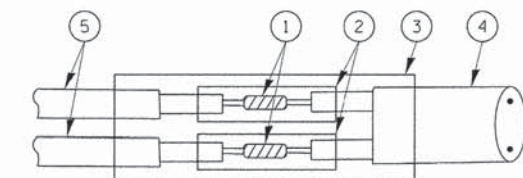


DETECTOR LOOP WIRING SCHEMATIC

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

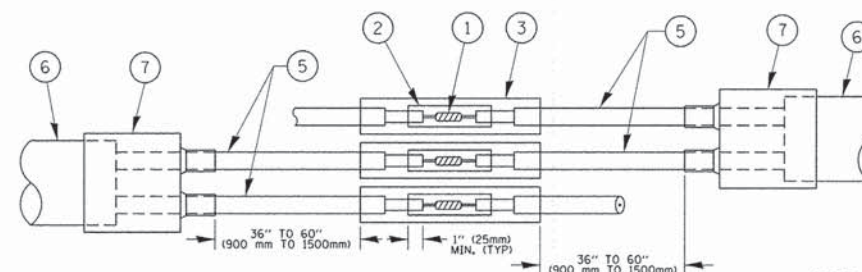


DETAIL "A"
LOOP-TO-LOOP SPLICE

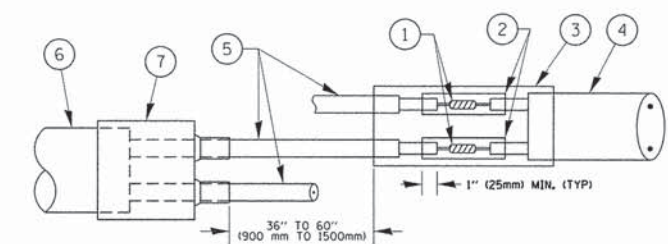


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

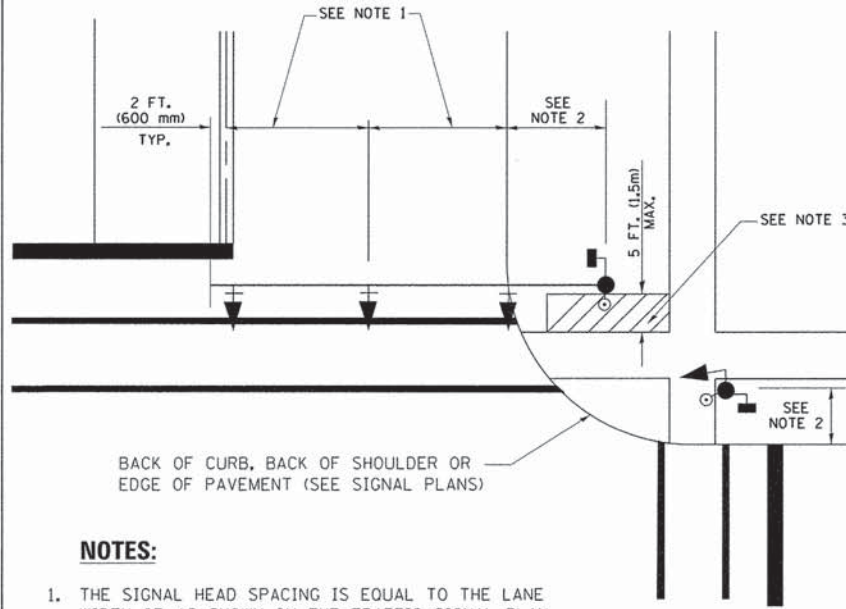
PREFORMED LOOP

LOOP DETECTOR SPLICE

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

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.
ci:\pw\work\pwsdot\Footemj\d0108315\ts03.dgn	DRAWN - BCK	REVISED -	1223			09-00135-11-BT	LAKE	69	36	
PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -	TS-05			CONTRACT NO. 61A40				
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
					SCALE: NONE	SHEET NO. 2 OF 7 SHEETS		STA. TO STA.		

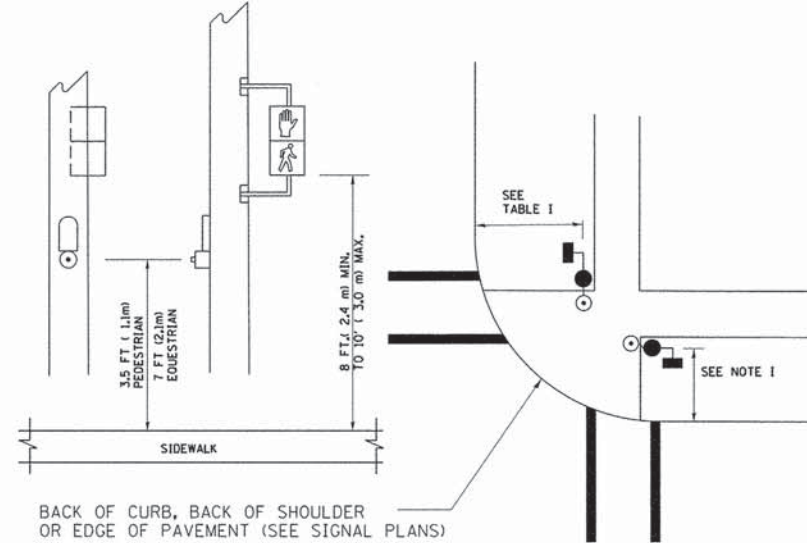
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

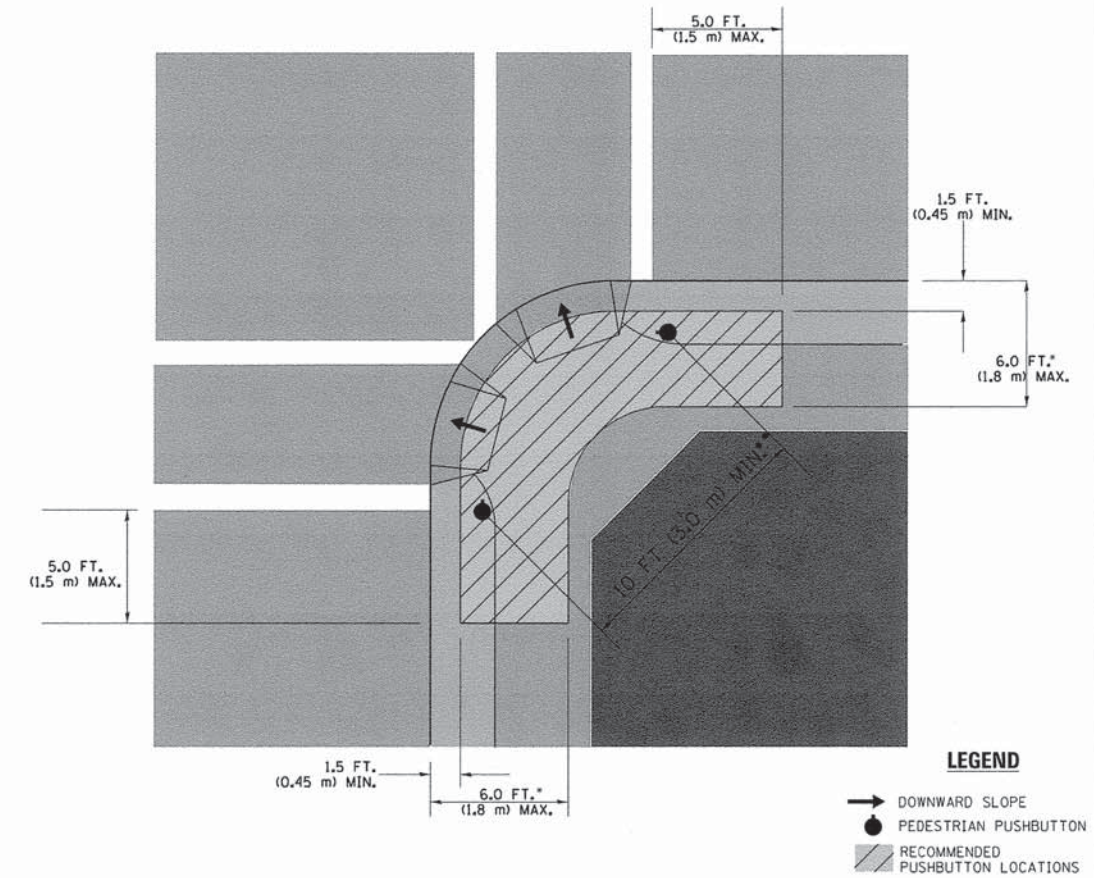
PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

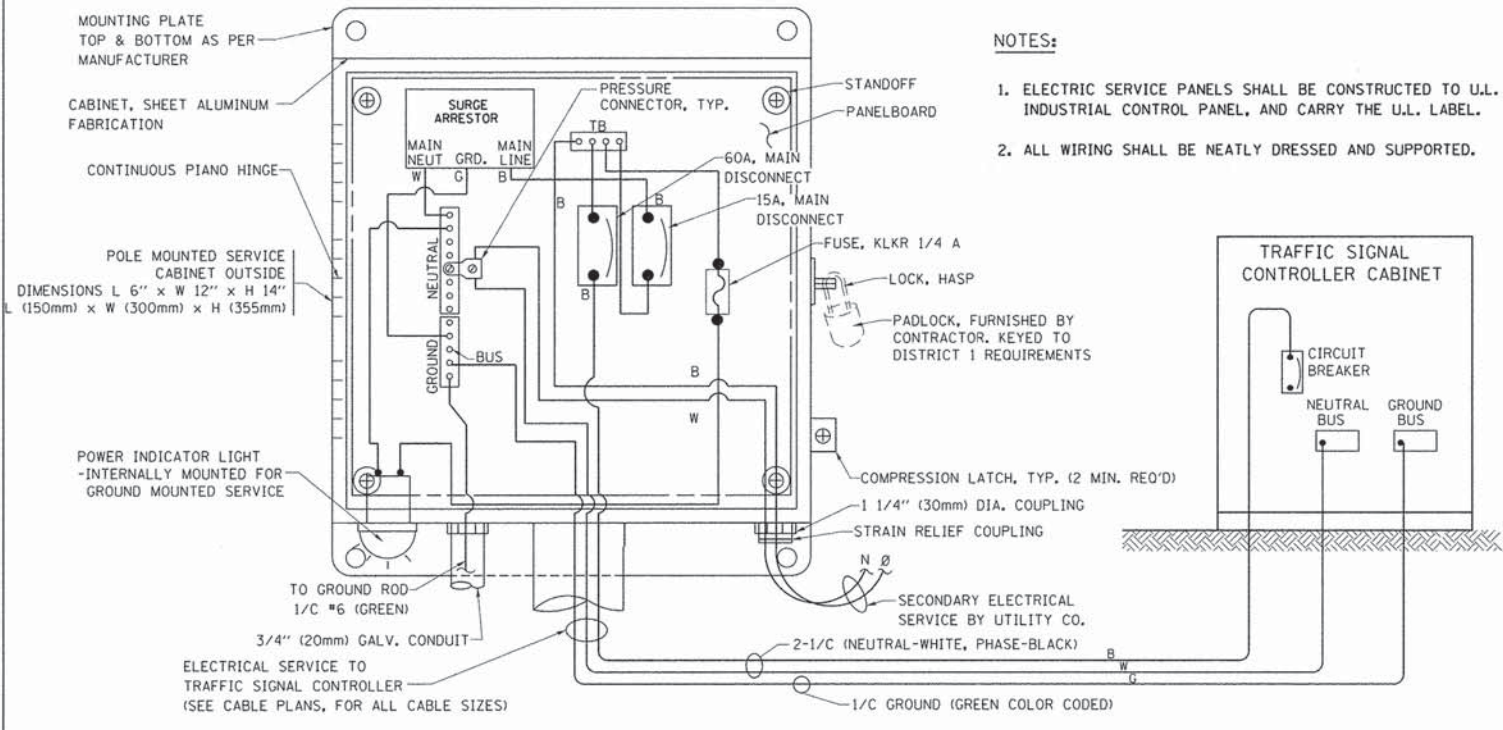
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

TRAFFIC SIGNAL EQUIPMENT OFFSET

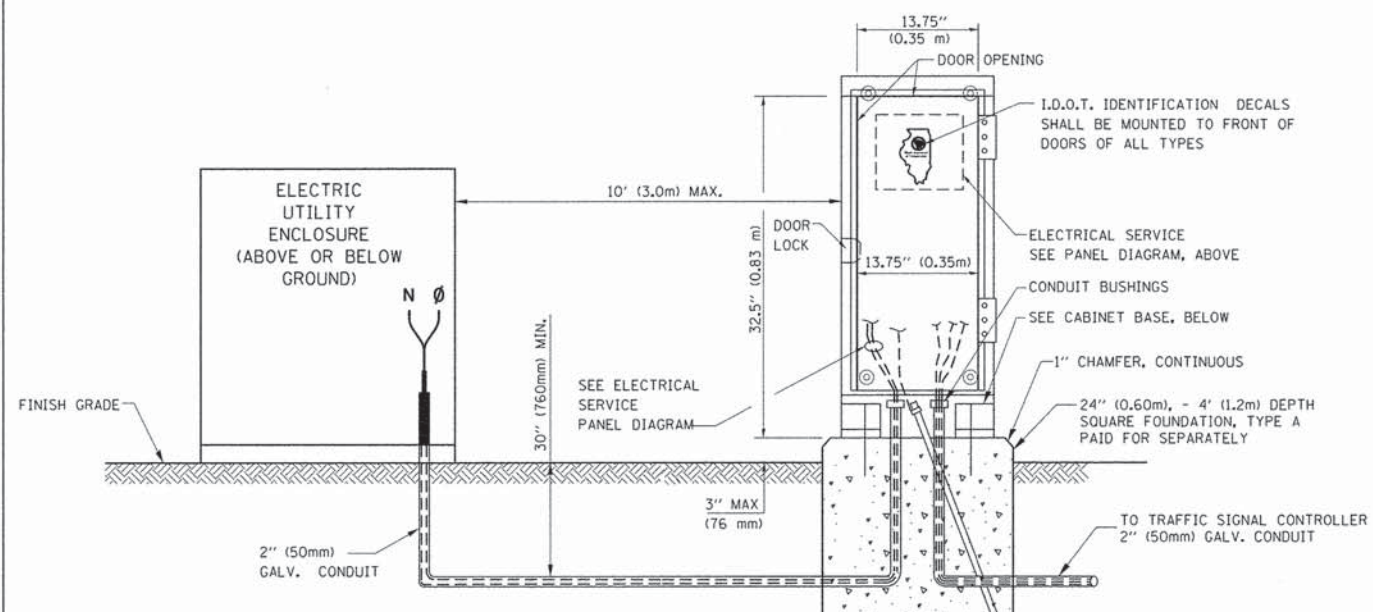
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

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

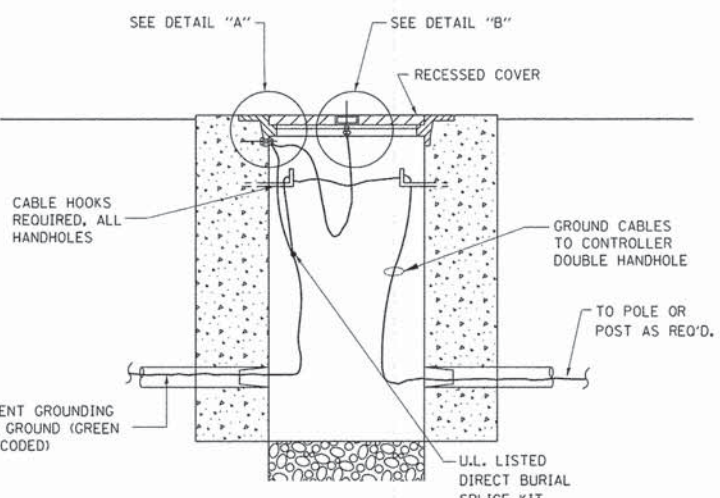
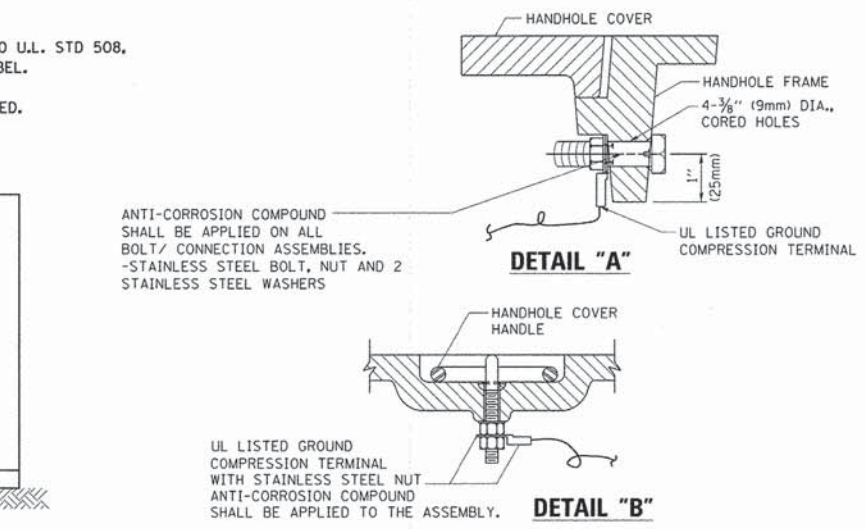
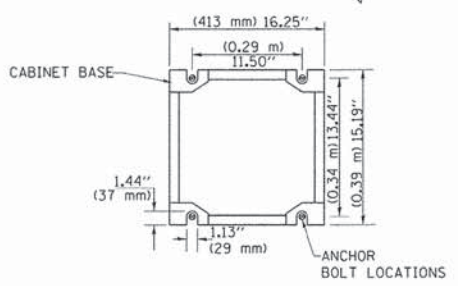


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)

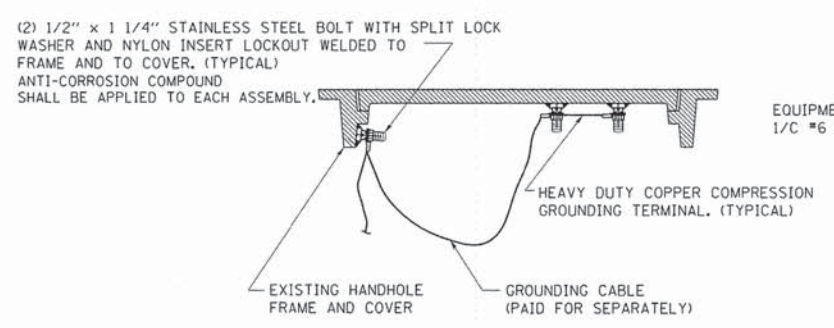


SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

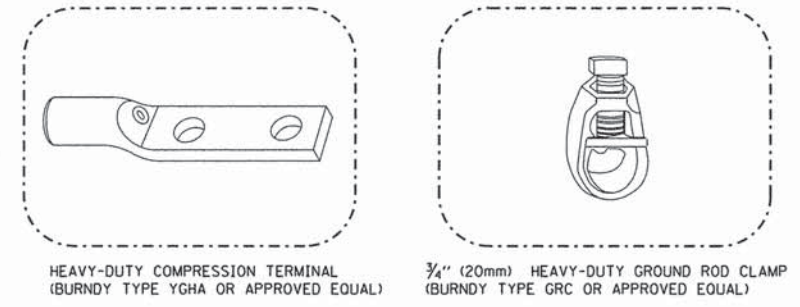
CABINET - BASE BOLT PATTERN (NOT TO SCALE)



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

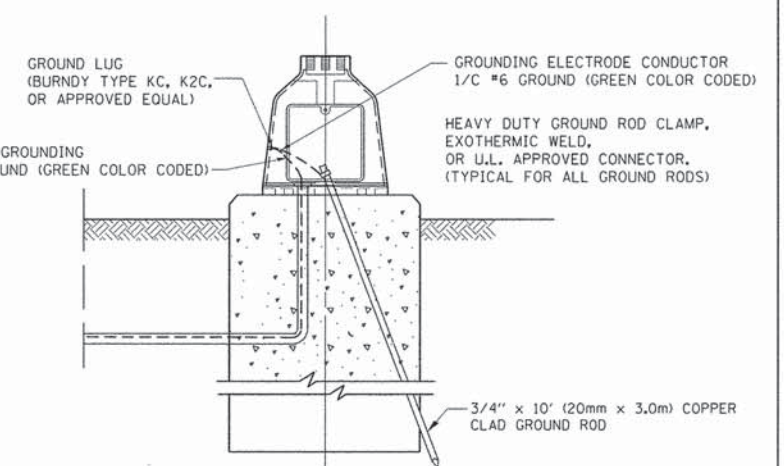


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

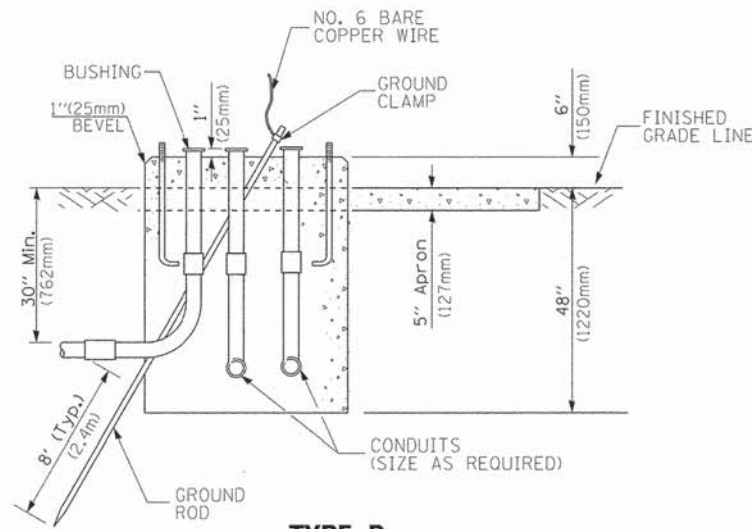
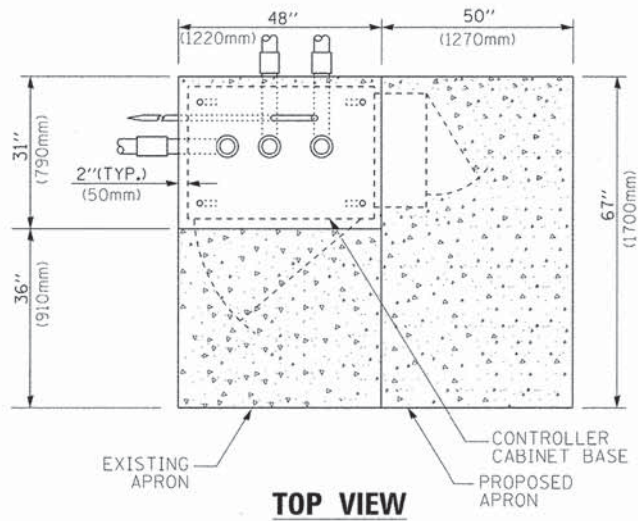


NOTES:

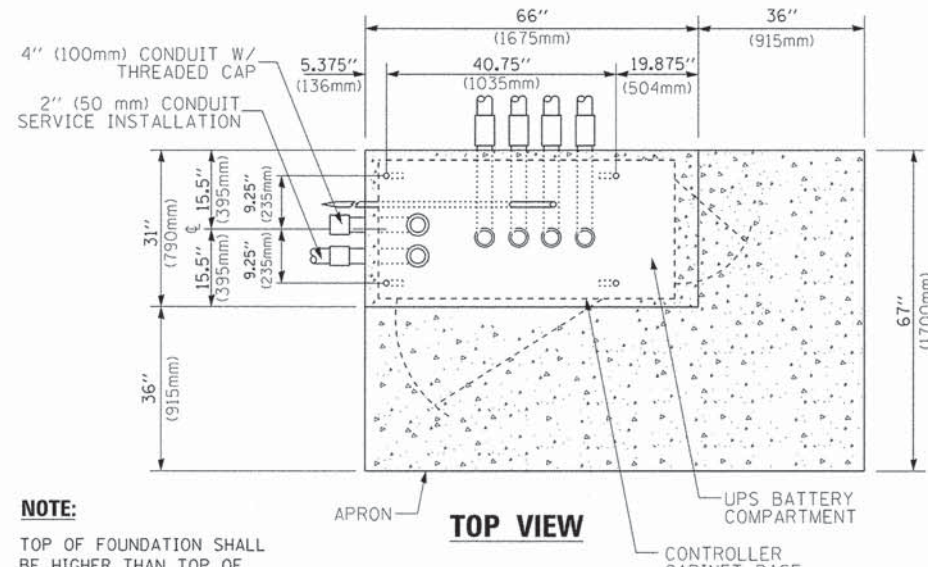
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES, 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



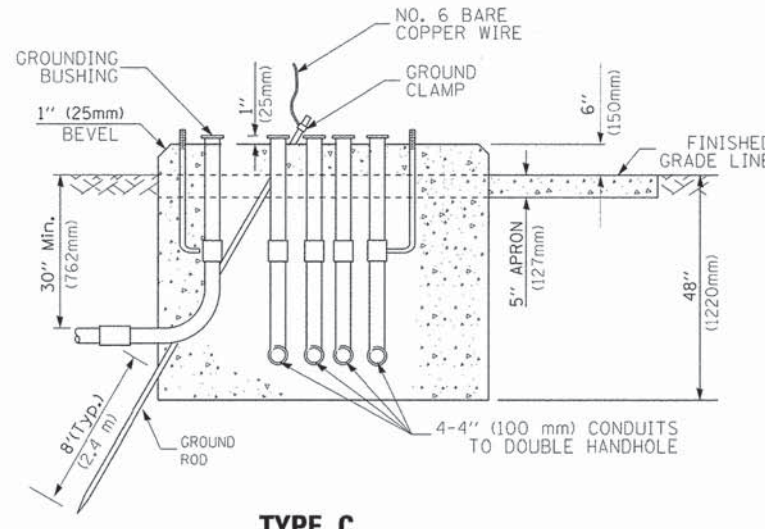
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)



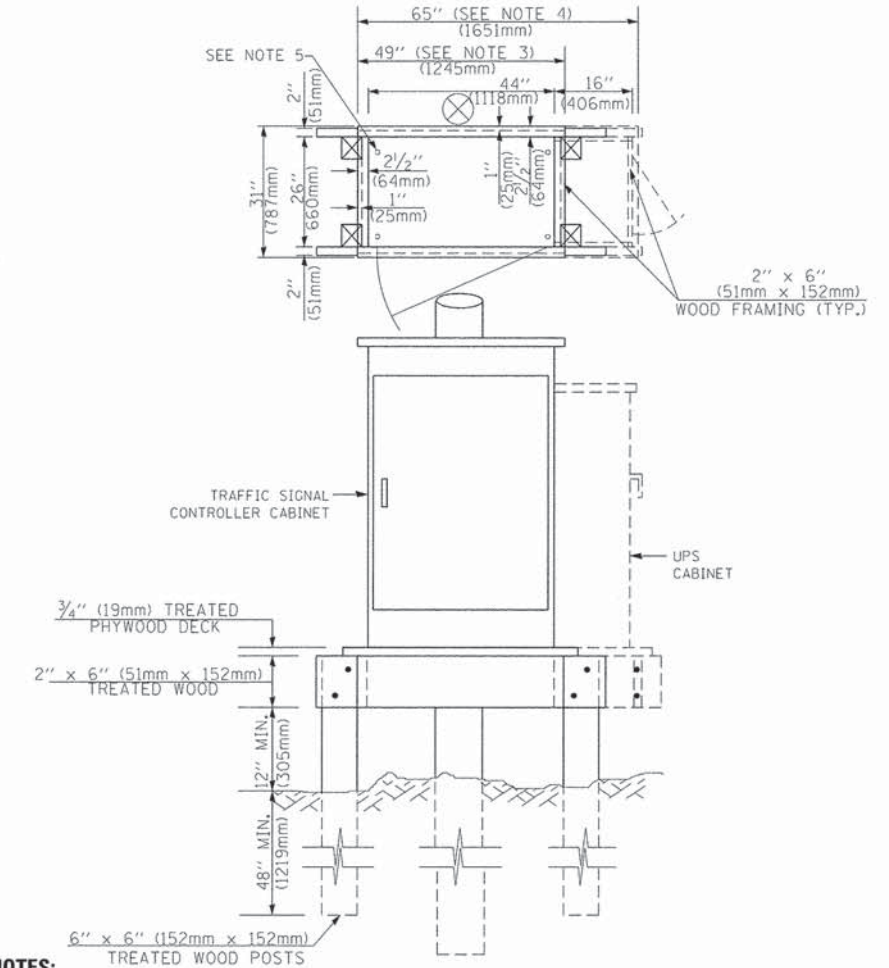
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



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)

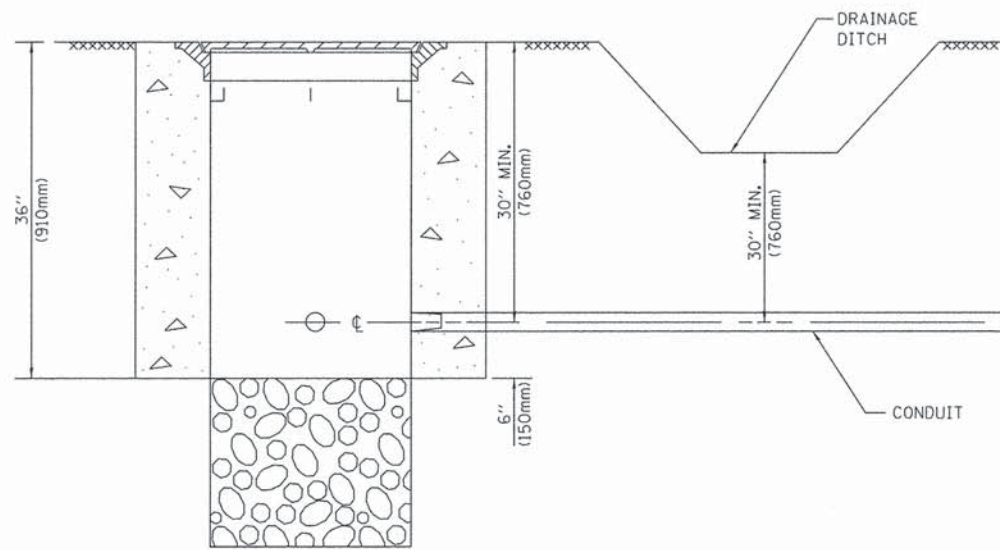
DEPTH OF FOUNDATION

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)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	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..

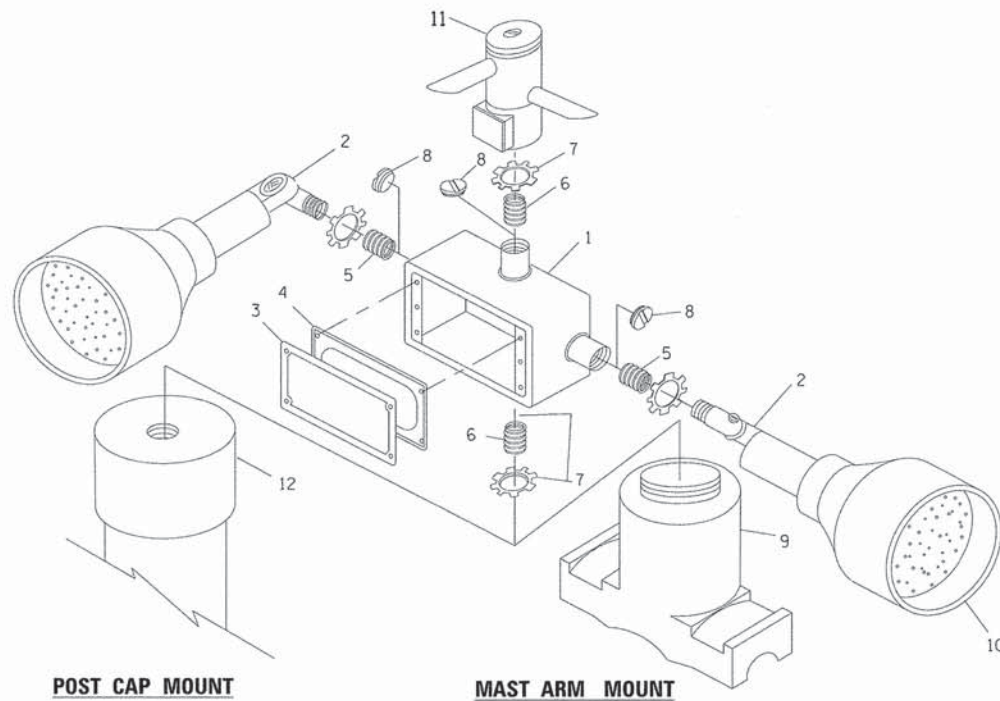
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



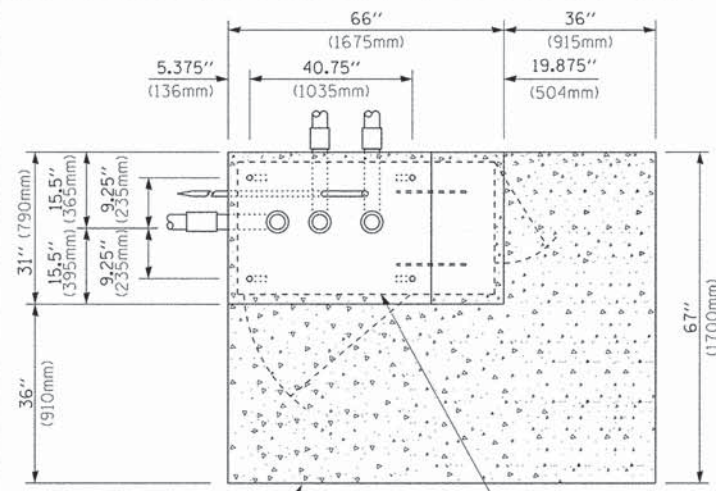
NOTES:

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.

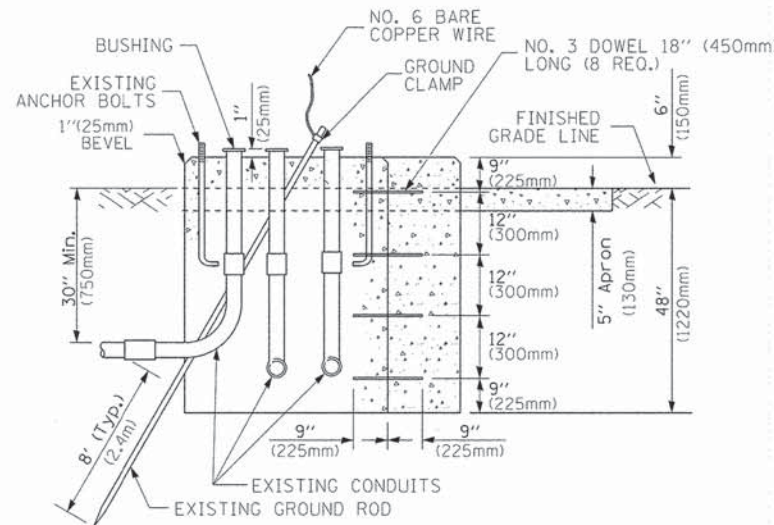
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

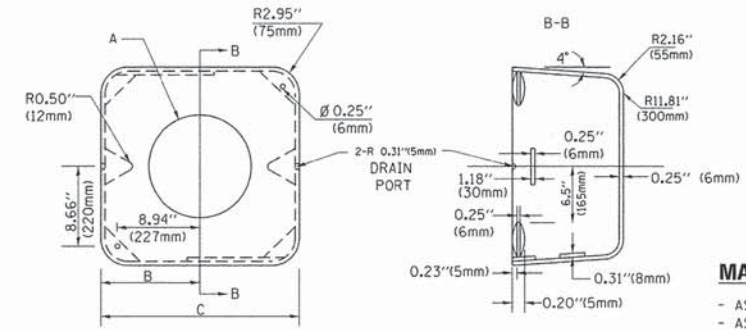


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

NOTES:

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



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

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

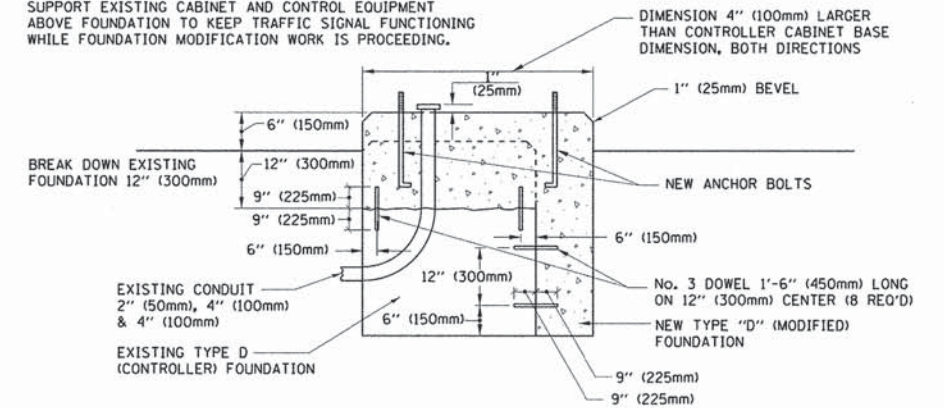
SHROUD

NOTES:

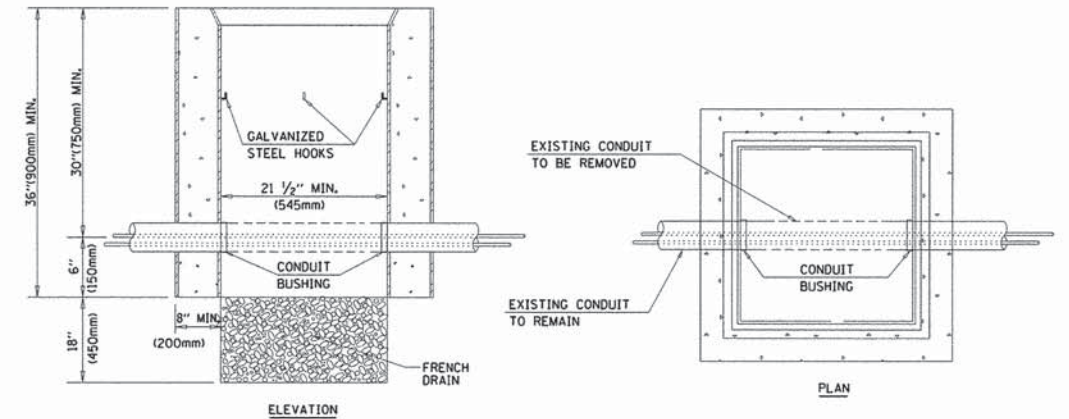
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
as:\pw\work\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 58.0000" / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

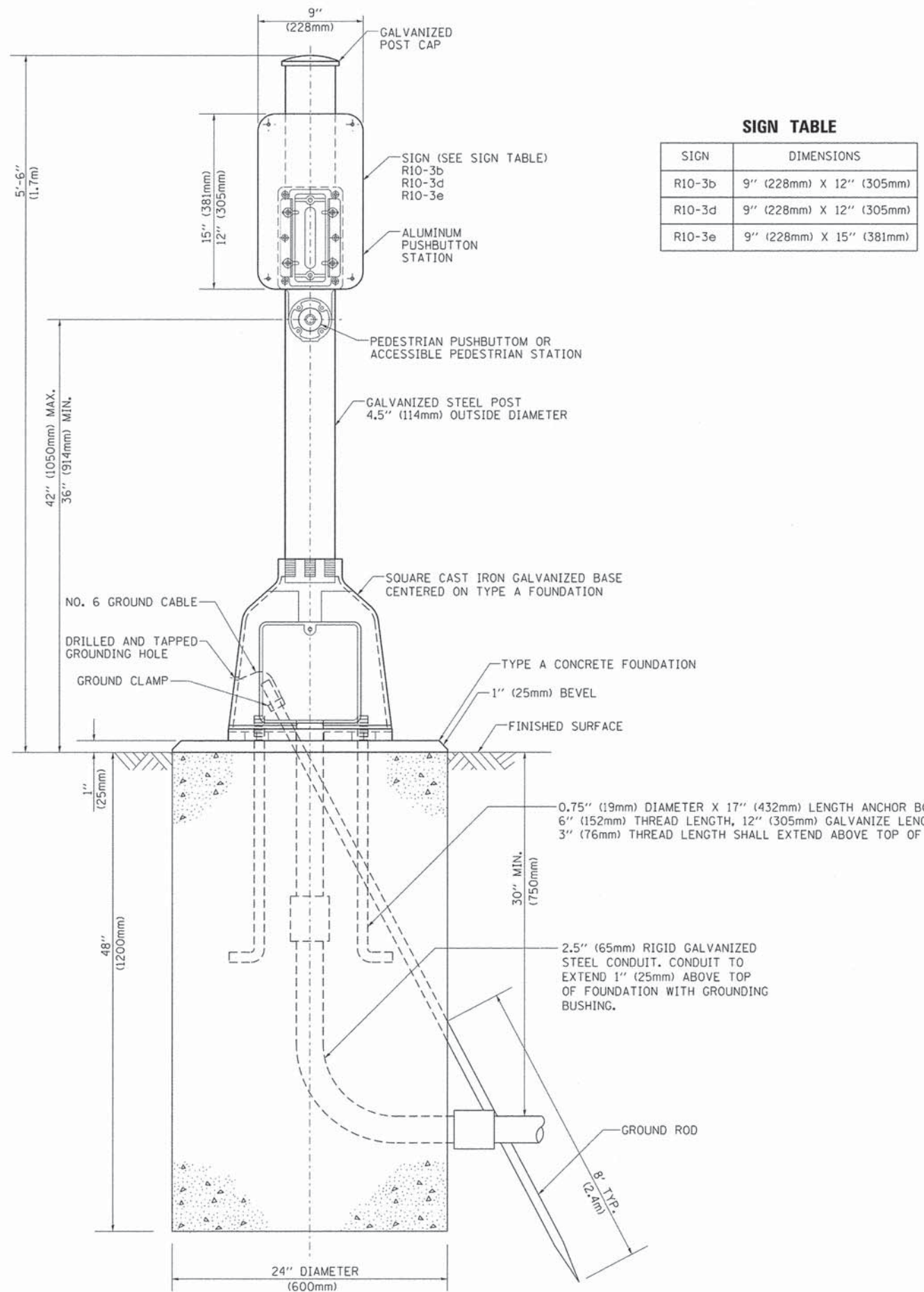
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

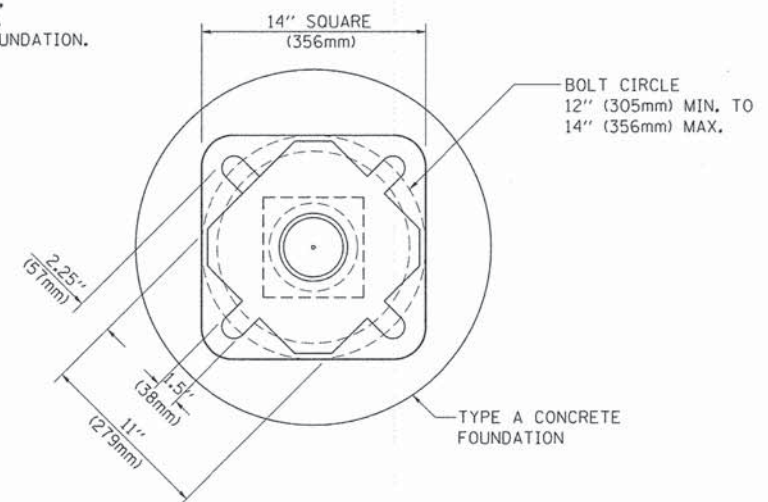
SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	40
	TS-05			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A40	



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

Benchmark (TBM #2): Railroad spike in power pole west of Lancer Rd, South of Washington St.
Sta. 517+32.44, Offset 9.17' Rt. elev. 774.62

Existing Structure: 120'-0" Cast-in-place cantilever T-wall on spread footings

CIVILTECH ENGINEERING, INC.
GREGORY J. HATLESTAD, S.E.

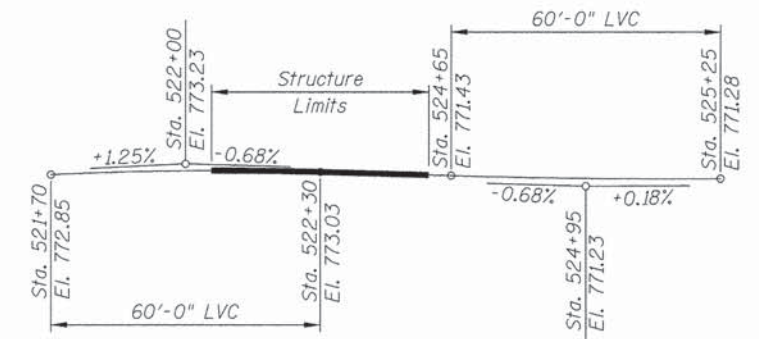
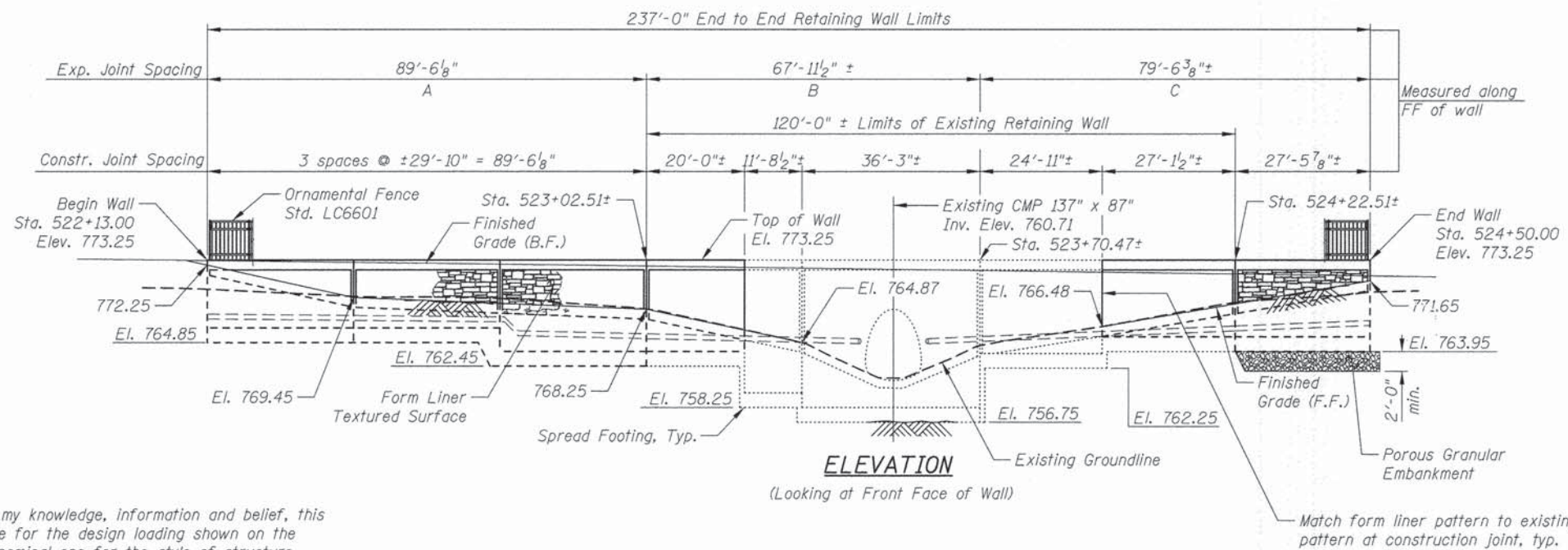


GREGORY J. HATLESTAD, S.E.
081-005562

EXP 11/30/2016

DATE 3/24/2014

I certify that to the best of my knowledge, information and belief, this design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.



DESIGN LOADING
Equivalent Fluid Pressure for Lateral Pressure = 40 pcf
Design Live Load Surcharge = 2 feet

CURVE DATA
(along C of Bike Path)
Δ = 28° 01' 24.61" (Rt)
D = 57°
T = 24.95'
L = 48.91'
E = 3.07'
R = 100'
P.C. = Sta. 524+53.11
P.T. = Sta. 525+02.02
P.I. = Sta. 524+78.07

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges, 17th Edition

DESIGN STRESSES

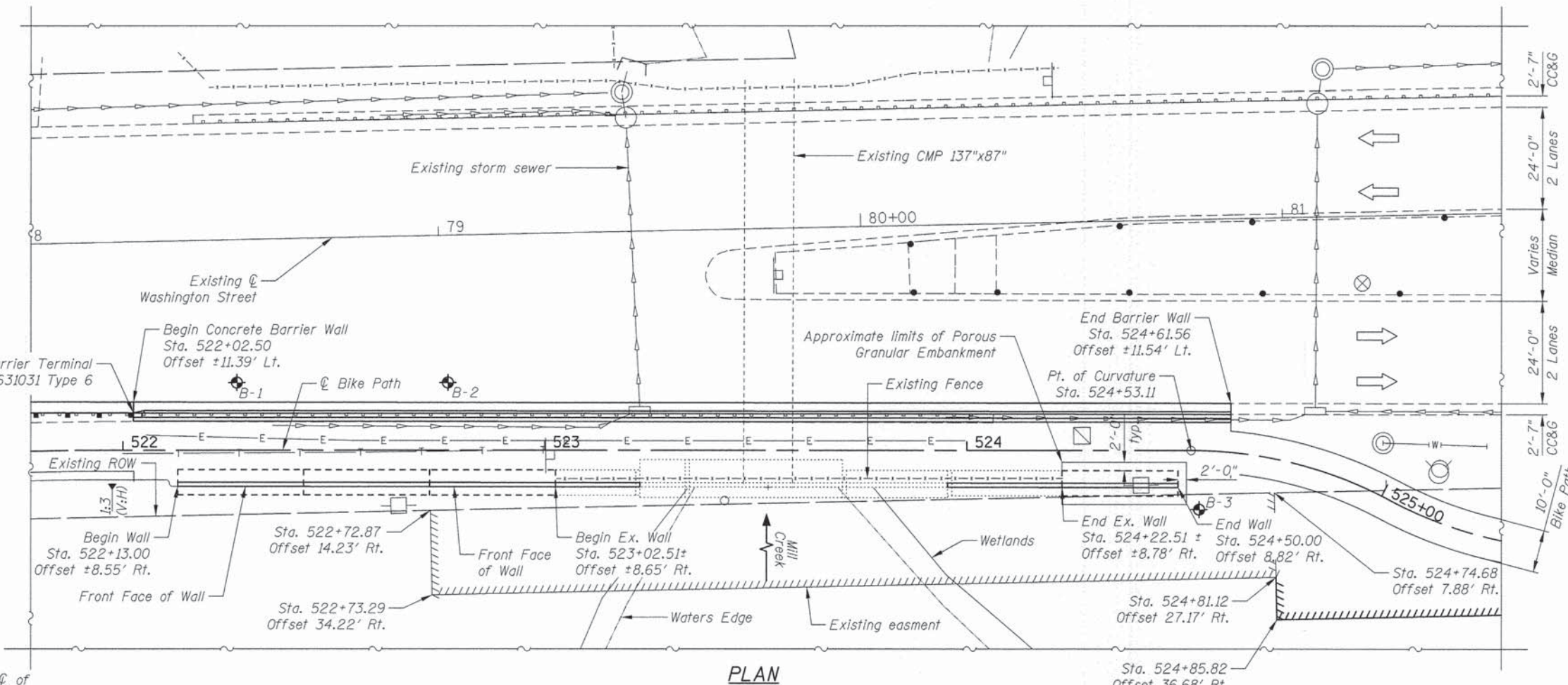
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

EXISTING UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

Range 10E - 3rd PM



GENERAL PLAN & ELEVATION
WALL A: WASHINGTON STREET
LAKE COUNTY
STA. 522+13 TO STA 524+50



LEGEND

- Creek Flow
- ◆ Soil Borings
- Electric
- Ex. storm sewer
- Ex. Water main

Notes:
1. Offsets are measured from C of Bike path to front face of wall

3/24/2014 8:05:20 AM j:\2122\cadd\Struct\Vol_gpe_r\ldgn

CIVILTECH
450 E Devon Ave, Suite 300
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DRAWN	- M. LANGE	REVISED	-
DESIGNED	- M. LANGE	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- MARCH 24, 2014	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
WALL A, WASHINGTON STREET

SHEET NO. 51 OF 59 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	42
CONTRACT NO. 61A40			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

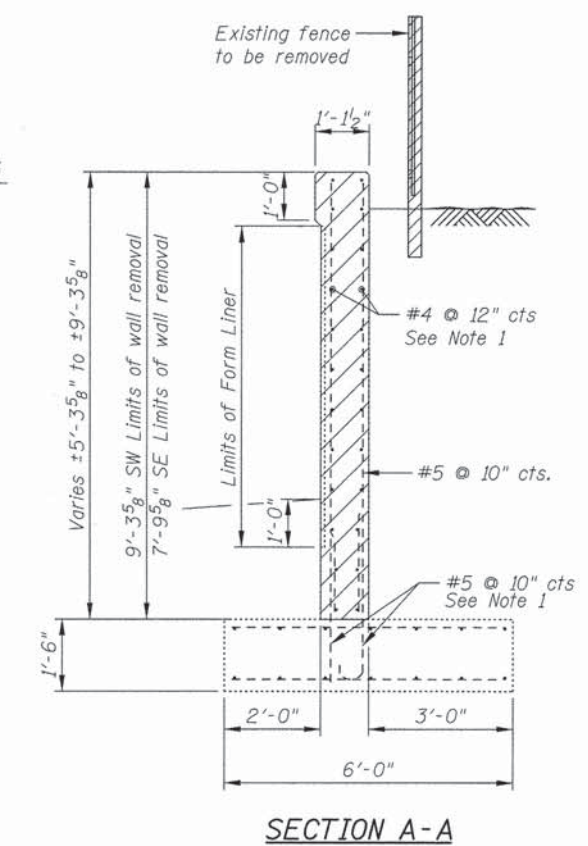
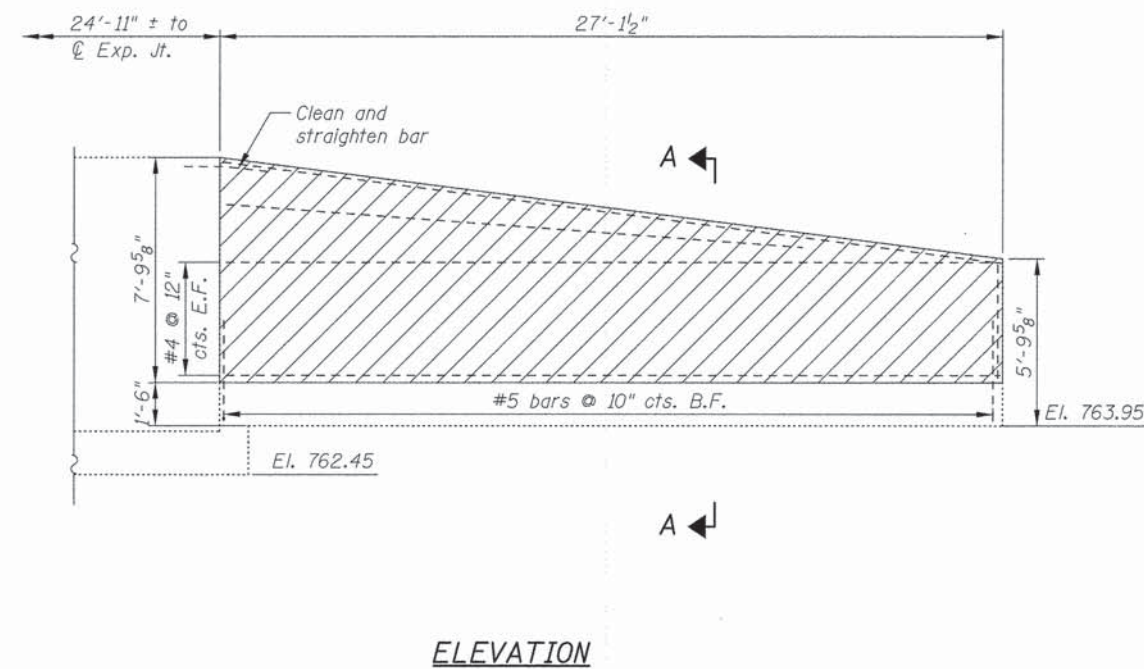
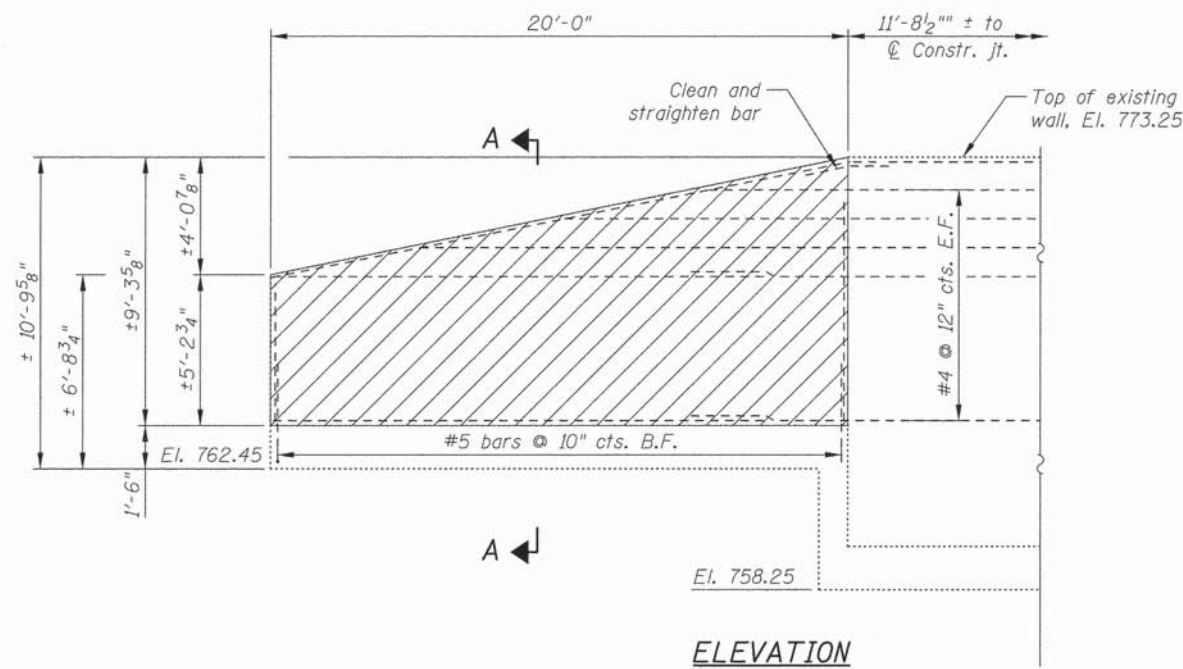
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

INDEX OF SHEETS

- S1 General Plan & Elevation
- S2 General Data
- S3 Retaining Wall I
- S4 Retaining Wall II
- S5 Retaining Wall III
- S6 Retaining Wall Details
- S7 Concrete Barrier Wall, Special
- S8 Parapet Railing Details
- S9 Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	75
Concrete Removal	Cu. Yd.	11.5
Structure Excavation	Cu. Yd.	333
Concrete Structures	Cu. Yd.	89.9
Protective Coat	Sq. Yd.	172
Reinforcement Bars Epoxy Coated	Pound	8,050
Parapet Railing	Foot	260
Geocomposite Wall Drain	Sq. Yd.	109
Concrete Barrier Wall (Special)	Foot	260
Ornamental Fence	Foot	237
Staining Concrete Structures	Sq. Yd.	139
Form Liner Textured Surface, Special	Sq. Ft.	672
Fence Removal	Foot	120
Pipe Underdrains for Structures 6"	Foot	118



Note:
 1. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal. Provide a min. lap of 2'-7 for #4 Horizontal bar. Provide full length of dowel bars into footing.

J:\21722\cadd\Struct\02_General Data_r1.dgn
 12:35:56 PM
 5/23/2014



450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

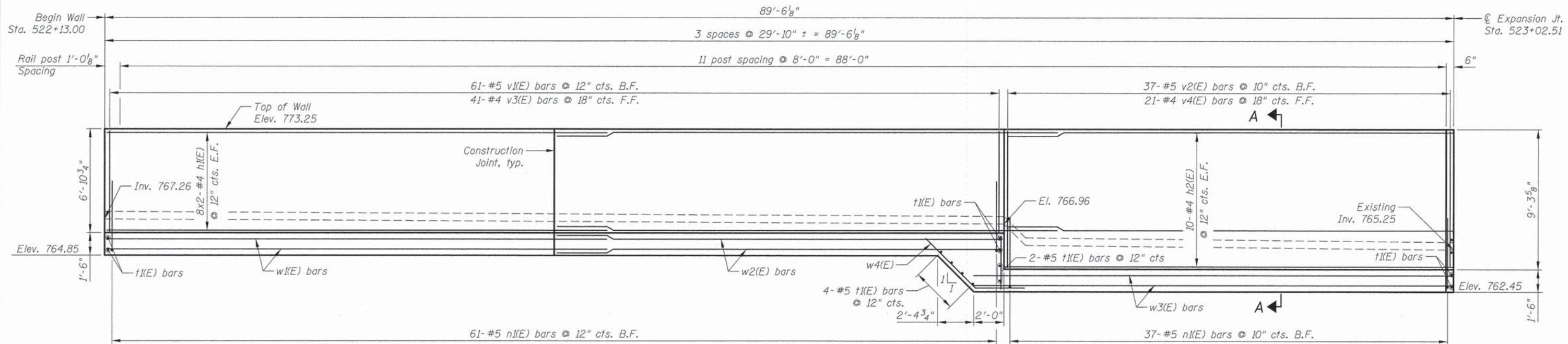
DRAWN	- M. LANGE	REVISED	-
DESIGNED	- M. LANGE	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- MARCH 24, 2014	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

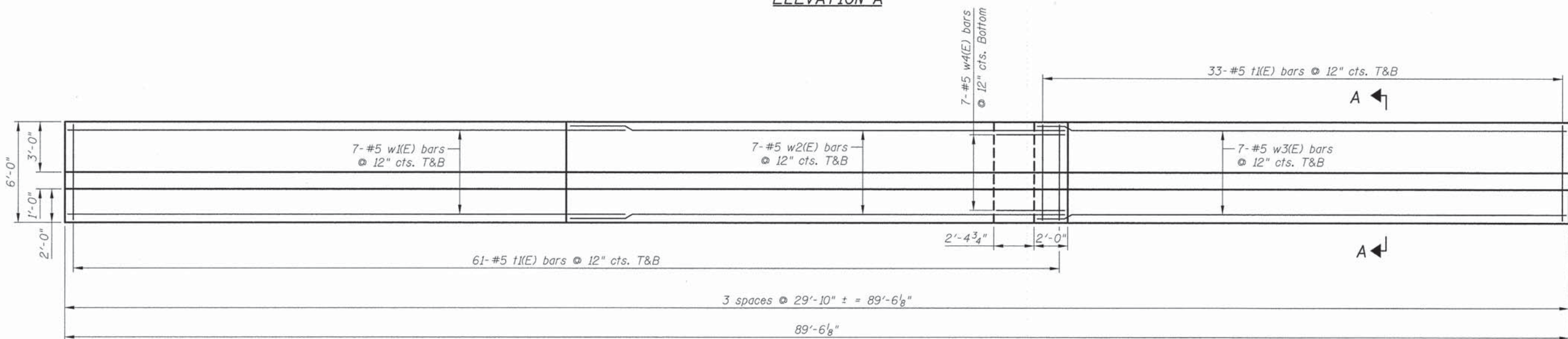
**GENERAL DATA
 WALL A, WASHINGTON STREET**

SHEET NO. S2 OF S9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	43
CONTRACT NO. 61A40			ILLINOIS FED. AID PROJECT	



ELEVATION A



PLAN A

MINIMUM BAR LAP

Bar Size	Class C
#4	2'-7"
#5	3'-3"

Notes:
 1. See Sheet S6 for Wingwalls Details, Bill of Material, Sections A-A thru D-D.

J:\2122\road\struof\03_wall\p&e.dgn
 12:31:57 PM
 3/23/2014

CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DRAWN - M. LANGE	REVISED -
DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - MARCH 24, 2014	REVISED -

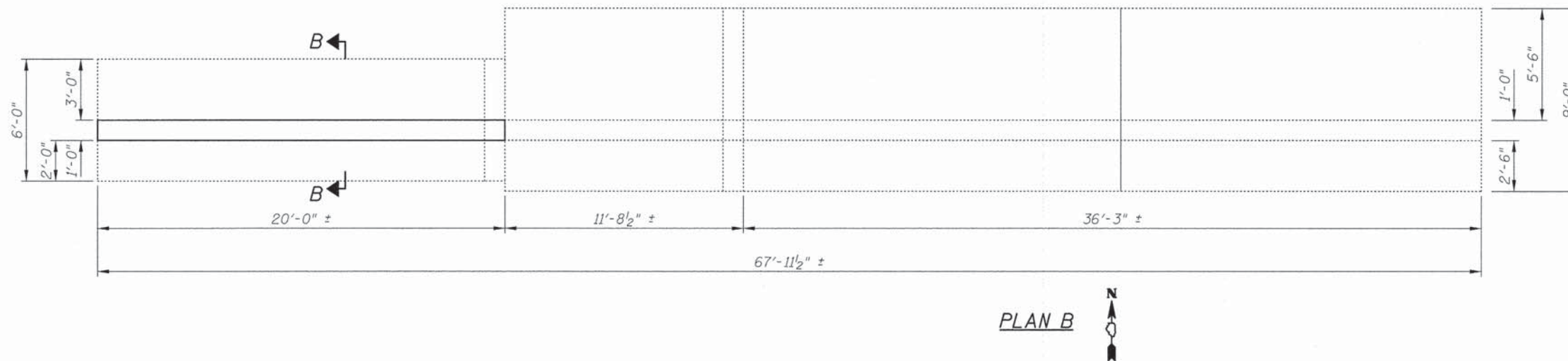
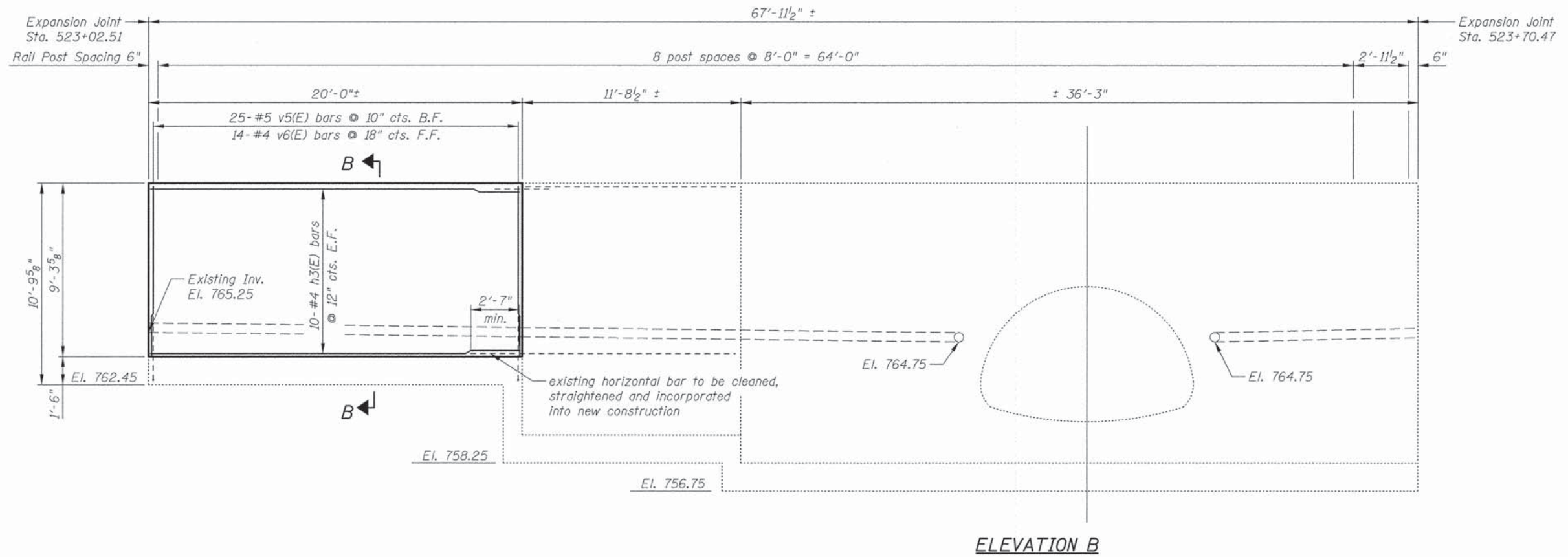
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL I
 WALL A, WASHINGTON STREET

SHEET NO. 53 OF 59 SHEETS

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 44
CONTRACT NO. 61A40				

ILLINOIS FED. AID PROJECT



PLAN B
N

MINIMUM BAR LAP

Bar Size	Class C
#4	2'-7"
#5	3'-3"

Notes:

- See Sheet S6 for Wingwall details, Bill of Material, Sections A-A thru and D-D.
- Existing dimensions shall be field verified prior to ordering ornamental fence.

12:36:57 PM J:\21722\060\Structure\04_Wall P&E.rvt.dgn 3/23/2014

CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

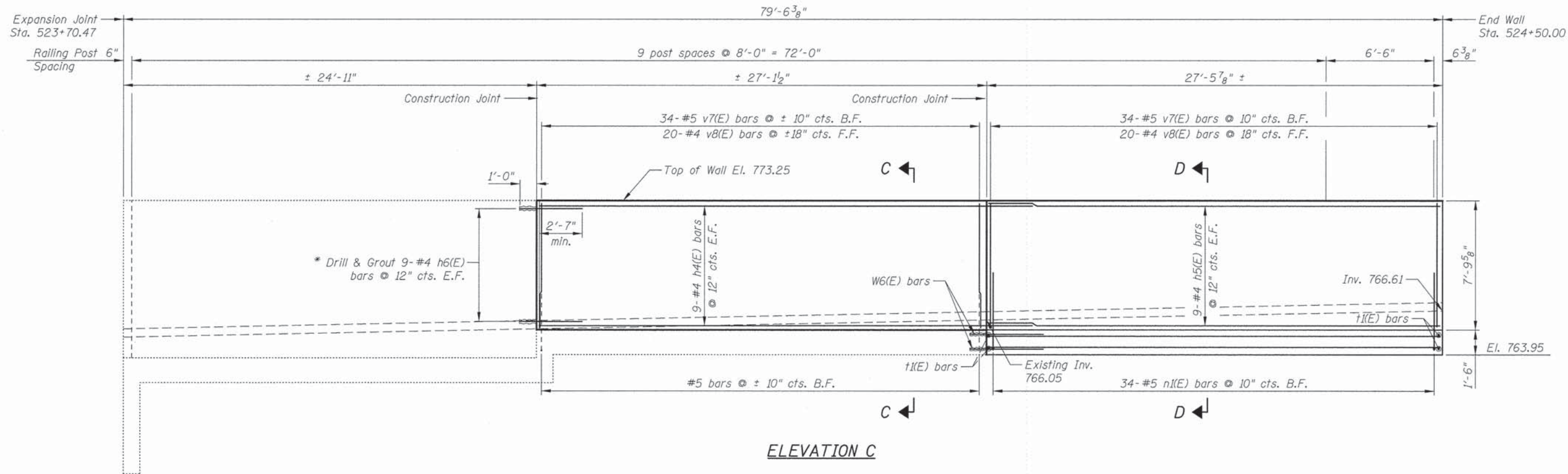
DRAWN - M. LANGE	REVISED -
DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - MARCH 24, 2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL II
WALL A, WASHINGTON STREET

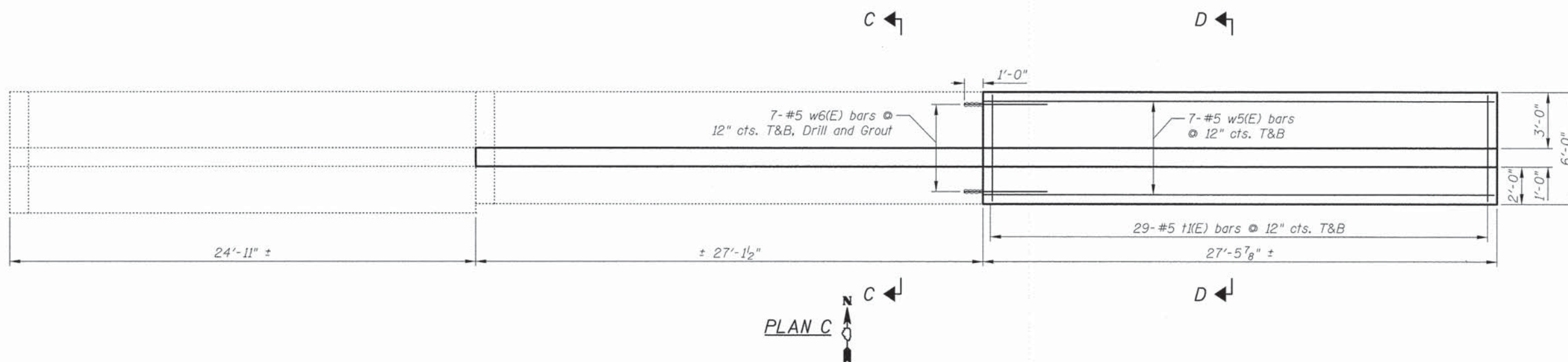
SHEET NO. S4 OF S9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	45
CONTRACT NO. 61A40				
ILLINOIS FED. AID PROJECT				



ELEVATION C

Notes:
 * Drill and Grout h6(E) bars only if the existing horizontal bars do not extend into the new wall.



PLAN C

MINIMUM BAR LAP

Bar Size	Class C
#4	2'-7"
#5	3'-3"

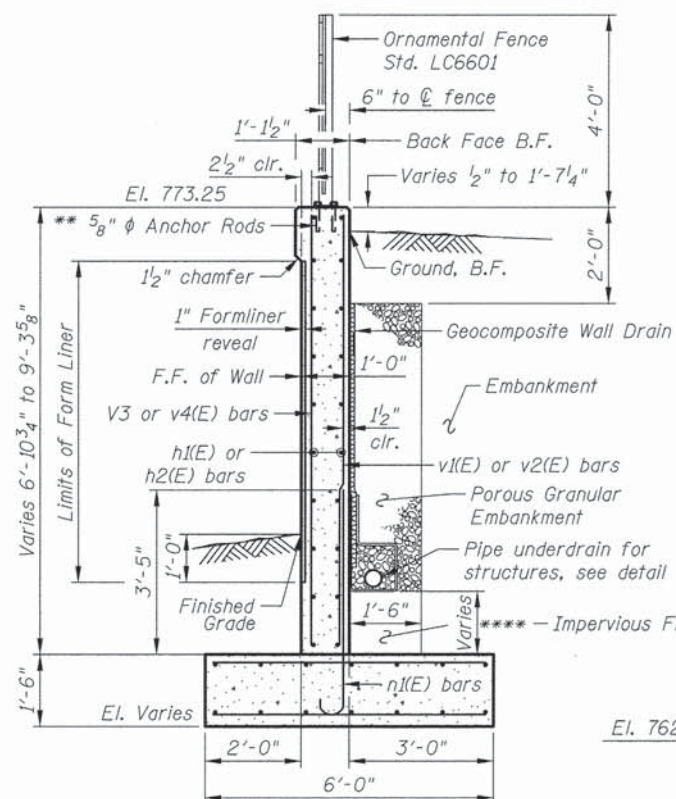
Notes:
 1. See Sheet S6 for Wingwall Details, Bill of Material, Sections A-A thru D-D.
 2. Existing dimensions shall be field verified prior to ordering ornamental fence.

12:36:57 PM J:\2722\cadd\Structure\05_WallP&E.rvt.dgn 3/23/2014

BILL OF MATERIAL

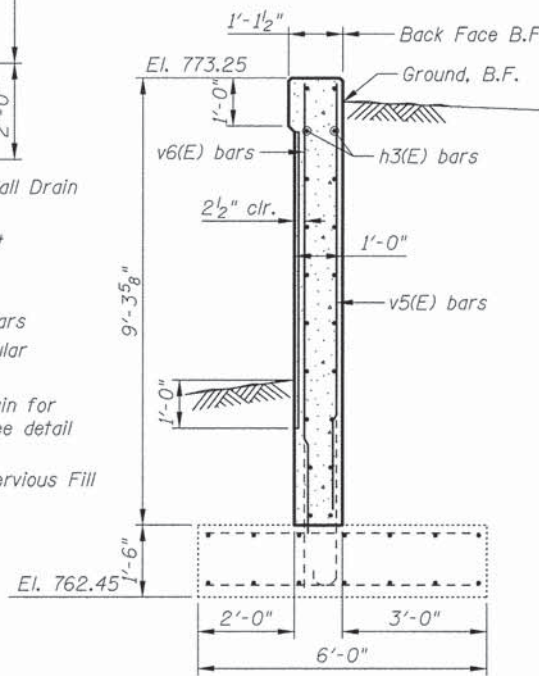
Bar	No.	Size	Length	Shape
h1(E)	32	#4	32'-5"	
h2(E)	20	#4	29'-6"	
h3(E)	20	#4	19'-8"	
h4(E)	18	#4	7'-6"	
h5(E)	18	#4	27'-2"	
h6(E)	18	#4	3'-9"	
n1(E)	132	#5	5'-3"	
f1(E)	252	#5	5'-8"	
v1(E)	61	#5	6'-7"	
v2(E)	37	#5	9'-0"	
v3(E)	41	#4	6'-7"	
v4(E)	21	#4	9'-0"	
v5(E)	25	#5	9'-0"	
v6(E)	14	#4	9'-0"	
v7(E)	68	#5	7'-6"	
v8(E)	40	#4	7'-6"	
w1(E)	14	#5	33'-1"	
w2(E)	14	#5	29'-6"	
w3(E)	14	#5	31'-6"	
w4(E)	7	#5	7'-11"	
w5(E)	14	#5	27'-2"	
w6(E)	14	#5	4'-5"	
Item	Unit	Quantity		
Porous Granular Embankment	Cu. Yd.	75		
Structure Excavation	Cu. Yd.	333		
Concrete Structures	Cu. Yd.	89.9		
Reinforcement Bars, Epoxy Coated	Pound	8,050		
Geocomposite Wall Drain	Sq. Yd.	109		
Ornamental Fence	Foot	237		
Staining Concrete Structures	Sq. Yd.	139		
Form Liner Textured Surface, Special	Sq. Ft.	672		
Pipe Underdrains for Structures 6"	Foot	118		

See Sheet S3 for Section A-A; Sheet S4 for Section B-B; and Sheet S5 for Section C-C and Section D-D.



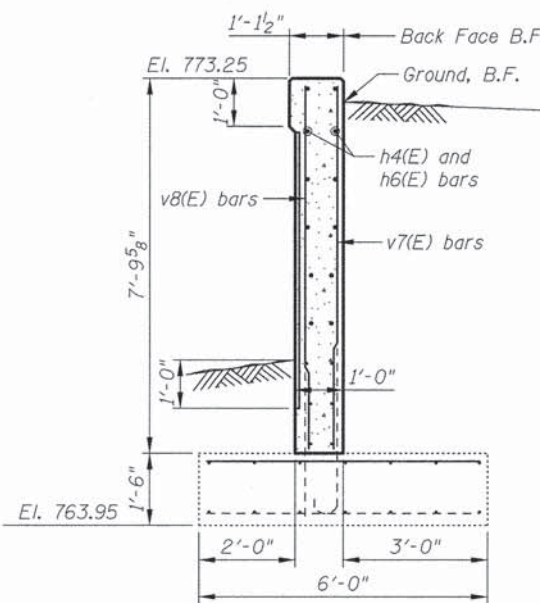
SECTION A-A

Maximum Applied Bearing Pressure = 3,173 psf
 Maximum Allowed Bearing Pressure = 4,000 psf
 **** See wall elevations for pipe underdrain locations
 ** Drill and set 5/8" φ anchor rods according to Article 509.06 of Standards Specifications. Embedment shall be according to the Manufacturer's specifications.



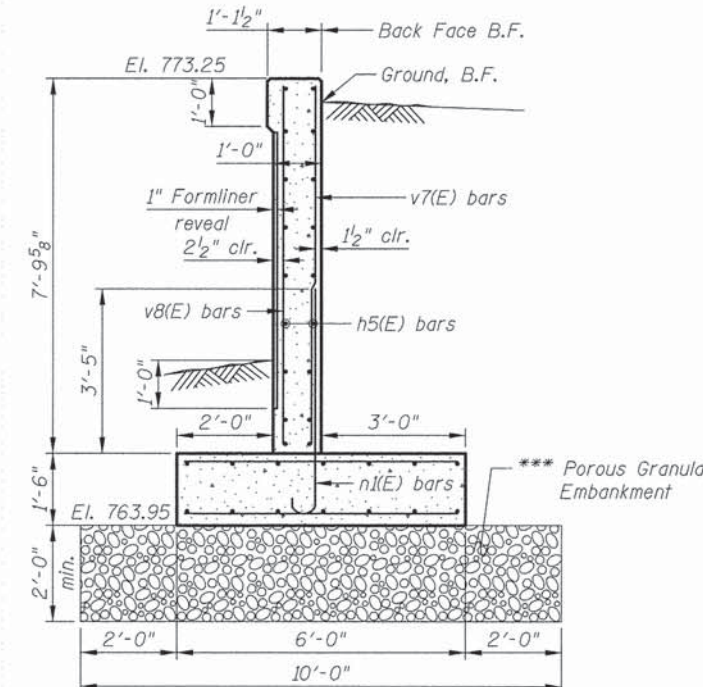
SECTION B-B

See Section A-A for balance of information
 Maximum Applied Bearing Pressure = 3,173 psf
 Maximum Allowed Bearing Pressure = 4,000 psf



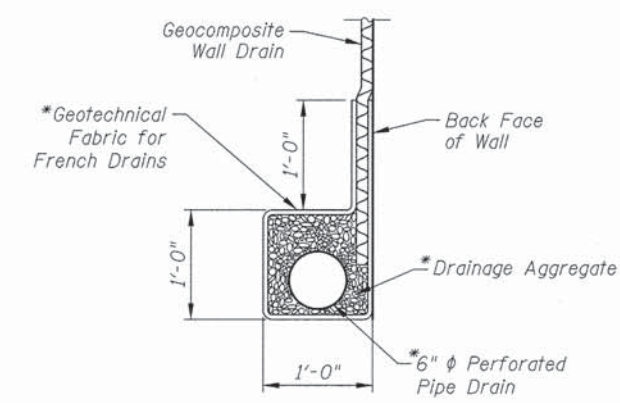
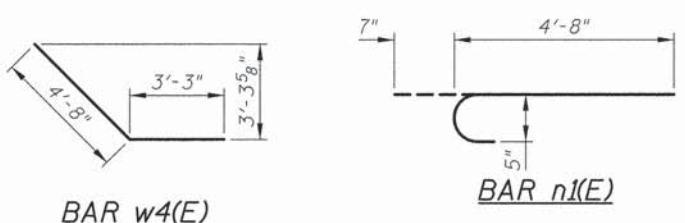
SECTION C-C

See Section A-A for balance of information
 Maximum Applied Bearing Pressure = 2,333 psf
 Maximum Allowed Bearing Pressure = 3,500 psf



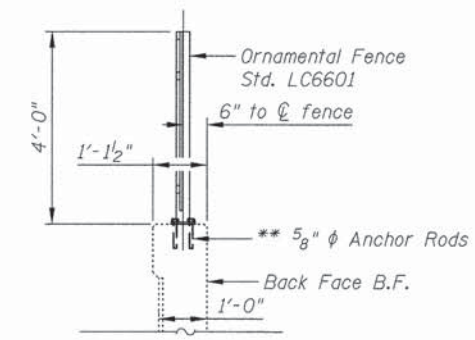
SECTION D-D

See Section A-A for balance of information
 Maximum Applied Bearing Pressure = 2,333 psf
 Maximum Allowed Bearing Pressure = 3,500 psf
 *** Undercut of soil below footing is included in the cost of Structure Excavation



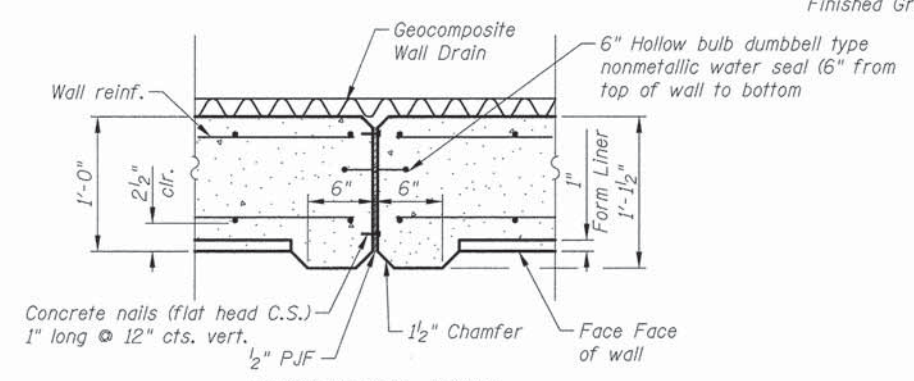
PIPE UNDERDRAIN DETAIL

* Included in the cost of Pipe Underdrains for Structures, 6"



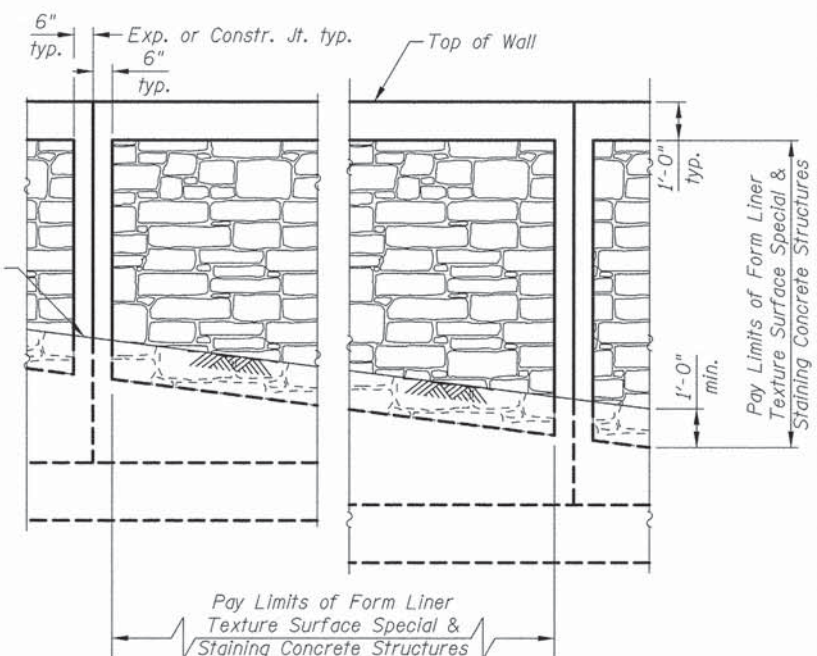
FENCE DETAIL

** Drill and set 5/8" φ anchor rods according to Article 509.06 of Standards Specifications. Embedment shall be according to the Manufacturer's specifications.



EXPANSION JOINT

Dimensions, coping, chamfers and form liner is to match the existing condition. All items need to be field verified prior to construction.



FORM LINER TEXTURE SURFACE DETAIL

At existing CMP location, Staining Concrete Structures limits are to the top of water line.

J:\2722\cadd\Structure\06_WallDetails.rvt.dgn
 02:31:58 PM
 3/23/2014

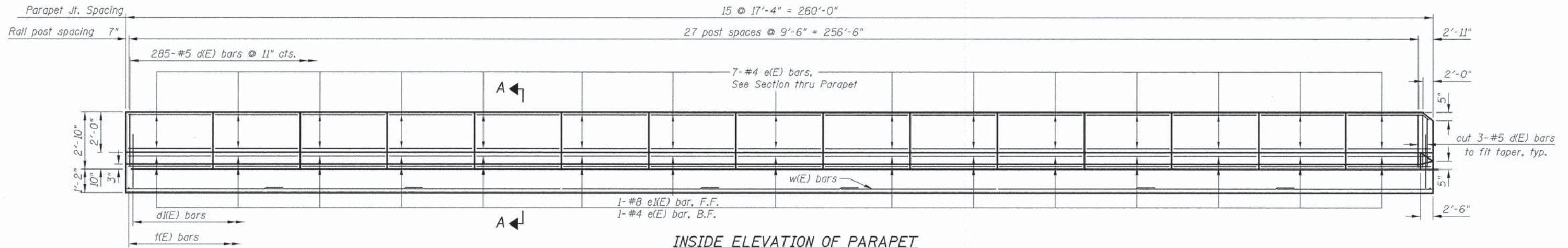
CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DRAWN - M. LANGE	REVISED -
DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - MARCH 24, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL DETAILS
 WALL A, WASHINGTON STREET**

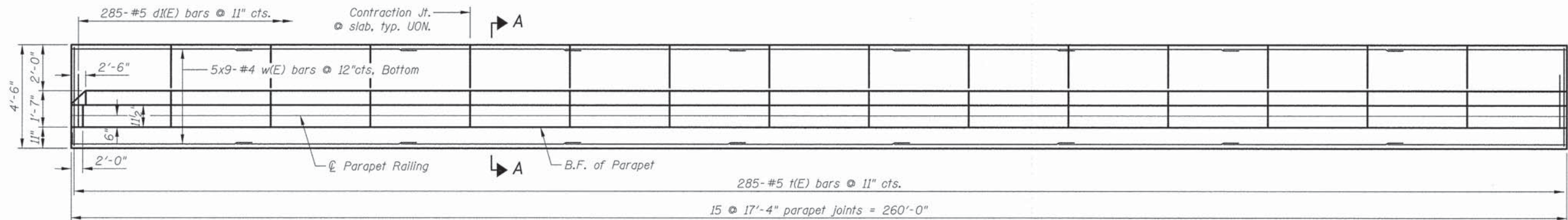
F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 47
CONTRACT NO. 61A40				
ILLINOIS FED. AID PROJECT				



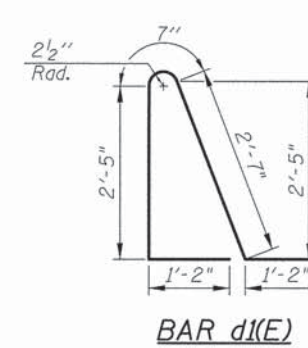
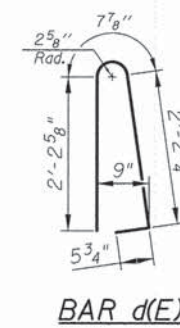
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

- (Parapet)
 #4 bar = 2'-0"
 #8 bar = 5'-2"
 (Slab)
 #4 bar = 2'-7"



PLAN



INFORMATION ONLY

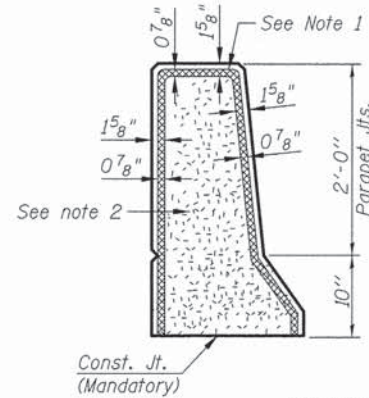
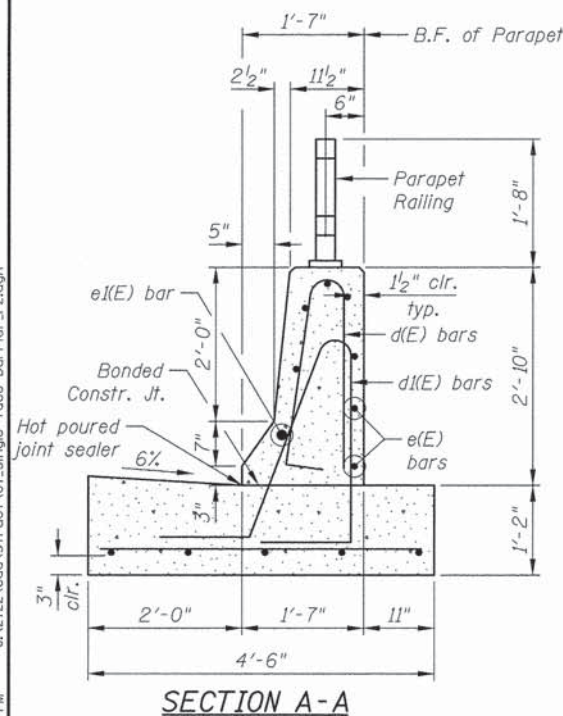
Bar	No.	Size	Length	Shape
d(E)	285	#5	5'-7"	
d(E)	285	#5	7'-11"	
e(E)	120	#4	17'-0"	—
e(E)	15	#8	17'-0"	—
t(E)	285	#5	4'-2"	—
w(E)	45	#4	31'-2"	—
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	83.2	
Reinforcement bars, Epoxy coated		Pound	8,240	

Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.

BILL OF MATERIAL

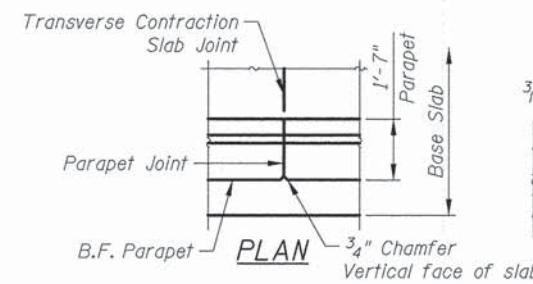
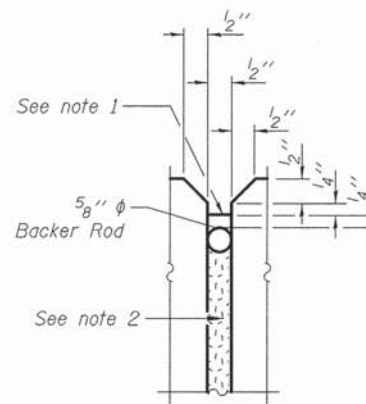
Item	Unit	Quantity
Protective Coat	Sq. Yd.	172
Concrete Barrier, Special	Foot	260

Reinforcement and concrete structures is for information only. The cost is included in Concrete Barrier Wall, Special



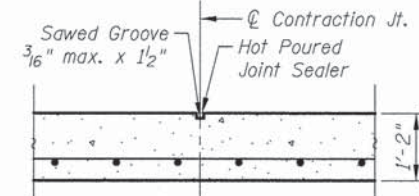
PARAPET JOINT DETAILS

- Parapet Joint notes:
1. Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
 2. 1#2" Preformed Self-Expanding Cork Joint Filler according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.



TRANSVERSE CONTRACTION JOINT

See Art. 420.05(c) of Standard Specifications



J:\2122\cod\Struct\07_single_face_barrier.r2.dgn 12:31:59 PM 3/23/2014



450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DRAWN - M. LANGE
 DESIGNED - M. LANGE
 CHECKED - G. HATLESTAD
 DATE - MARCH 24, 2014

REVISED -
 REVISED -
 REVISED -
 REVISED -

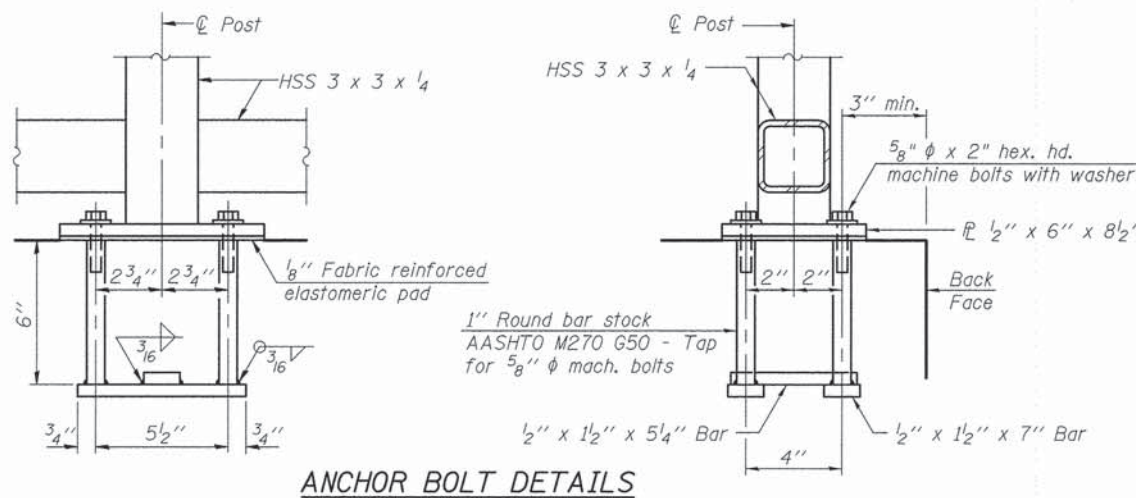
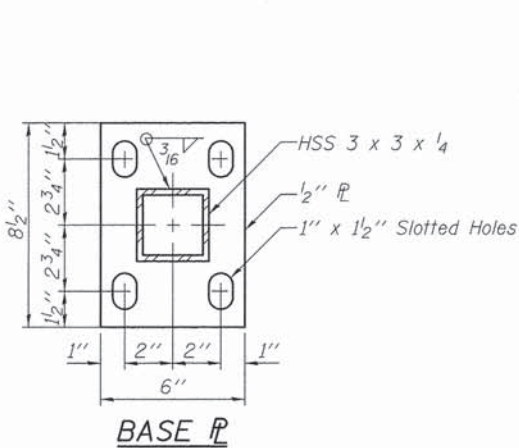
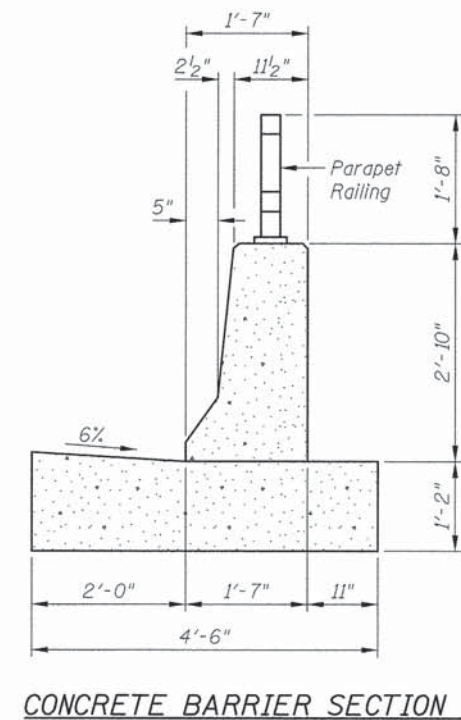
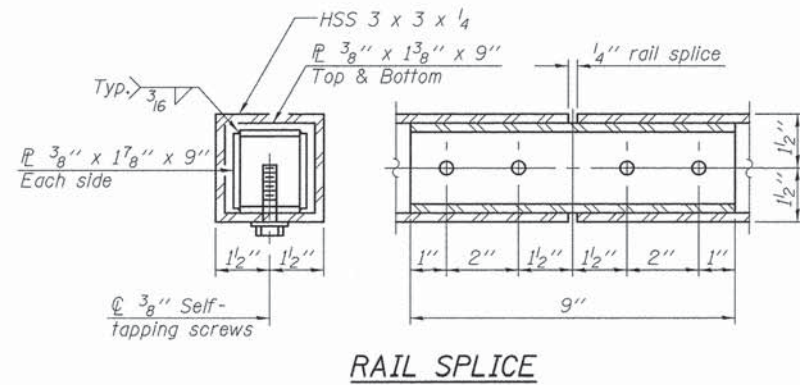
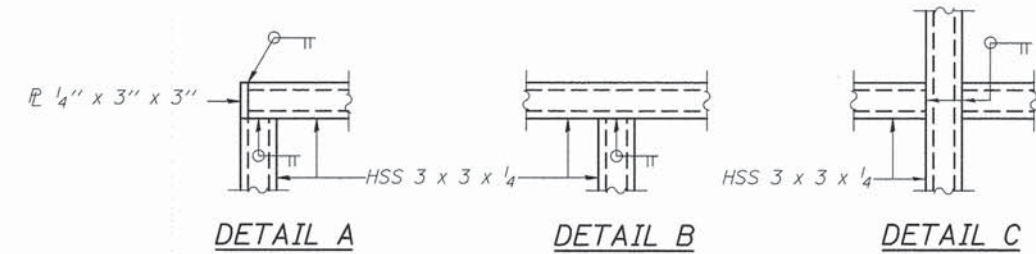
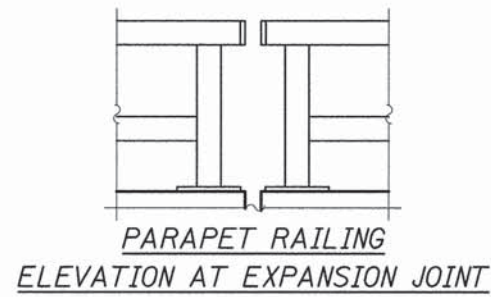
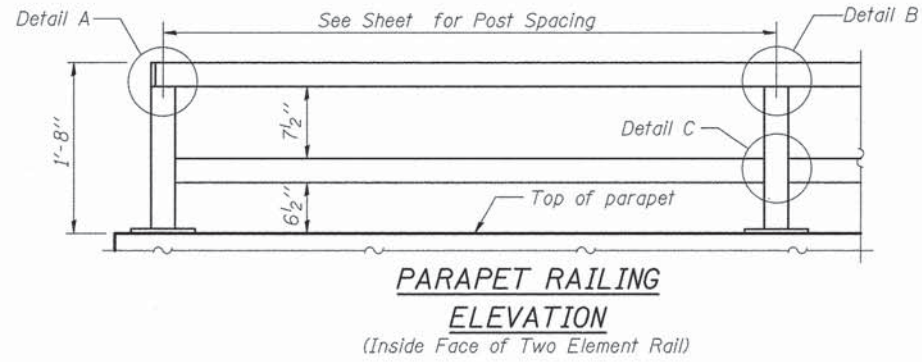
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER WALL, SPECIAL
 WALL A, WASHINGTON STREET

SHEET NO. 57 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	48
CONTRACT NO. 61A40				
ILLINOIS FED. AID PROJECT				

All post, railing, splices, anchor devices, and bent plates shall be painted using the color Traffic Black (RAL 9017).
 All posts shall be normal to the parapet.
 All joints in rail shall be spliced per the detail.
 All exposed rail ends shall be capped per the detail.
 Provide (1) 1/8" and (2) 1/16" aluminum shims for 25% of the posts.
 Rail elements shall be parallel to grade - High spots shall be ground and low spots shimmed. Cost included in Parapet Railing.



ANCHOR BOLT DETAILS
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" phi anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	260

12/23/2014 12:32:07 PM J:\2122\ood\fruct\08_Parapet Railing.dgn

MIDLAND STANDARD ENGINEERING & TESTING, INC.
STRUCTURE FOUNDATION BORING LOG

Page 1 of 1
Date 6/18/13

ROUTE 1223 DESCRIPTION Washington StreetBike Path LOGGED BY MP
SECTION 09-00135-11-BT LOCATION West End of Extension
COUNTY Lake STRUCTURE NO. (Exist) (Prop.)

BORING NO. B-1		DRILLING METHOD CFA		HAMMER TYPE Automatic		
Station	522+27	ELEVATION	DEPTH	BLOWS	UCS	
Offset	16' L					
Ground Surface Elev.	773+/- (ft.)					
Surface Water Elev.						
Groundwater Elev.	16.0' (ft.)					
First Encounter	11.1' (ft.)					
Upon Completion						
After						
Hrs.						
SOIL DESCRIPTION		(ft.)	(ft.)	#6"	(tsf)	(%)
Pavement Materials, 12.5" Bit Concrete over 16" Granular Base Course						
	770.6	5	6-6	3.08 BS	8	
Brown, Grey, & Black Sandy Clay LOAM, A-6 FILL very stiff						
	766.5	4	4	2.31 BS	15	
	766.5	4	5-6	2.62 S	23	
Black to Dark Grey CLAY, A-7-6 firm						
	763.5	5-6	2	1.55 BS	23	
	763.5	2	2	1.16 B	20	
Grey CLAY, A-6 stiff to very stiff						
	761.5	2-2	2	1.27 BS	18	
	761.5	12	2	2.17 B	17	
	761.5	5	7-8	3.38 B	16	
	761.5	16	3	2.21 B	18	
	761.5	10	8	0.50 B	17	
Grey SAND & GRAVEL, A-1 medium dense						
	753.5	20	5-5		8	
End of Boring at 20 Feet						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (6/05)

MIDLAND STANDARD ENGINEERING & TESTING, INC.
STRUCTURE FOUNDATION BORING LOG

Page 1 of 1
Date 6/18/13

ROUTE 1223 DESCRIPTION Washington StreetBike Path LOGGED BY MP
SECTION 09-00135-11-BT LOCATION West Extension
COUNTY Lake STRUCTURE NO. (Exist) (Prop.)

BORING NO. B-2		DRILLING METHOD CFA		HAMMER TYPE Automatic		
Station	522+77	ELEVATION	DEPTH	BLOWS	UCS	
Offset	16' L					
Ground Surface Elev.	772+/- (ft.)					
Surface Water Elev.						
Groundwater Elev.	15.5' (ft.)					
First Encounter	10.9' (ft.)					
Upon Completion						
After						
Hrs.						
SOIL DESCRIPTION		(ft.)	(ft.)	#6"	(tsf)	(%)
Pavement Materials, 10.5" Bit Concrete over 17" Sand & Gravel Base Course						
	769.7	8	5-6	1.55 BS	14	
Brown & Grey Sandy Clay LOAM, A-6 FILL stiff						
	742	4	4	1.94 BS	18	
	742	4	5-5	1.27 BS	18	
to Dark Grey & Brown						
	742.5	2	2	2.10 B	26	
to Black, very stiff						
	741.5	2-5	2-5	2.52 B	23	
Orangish Brown & Grey Silty CLAY, A-6 very stiff						
	741.5	2-5	4	1.13 B	19	
Grey CLAY, A-6 stiff						
	756.5	12	4	5-8	18	
	756.5	4	5-5	1.13 B	19	
Grey SAND & GRAVEL, A-1 saturated, slightly dense						
	754	1	2-4		16	
Grey Sandy LOAM, A-2-4 slightly dense						
	751.5	3	5-4		25	
Grey CLAY, A-6 stiff						
	751.5	3	4-5	1.16 B	18	
	751.5	24	1	1.20 B	16	
	751.5	10	3-7		16	
	751.5	10	1	1.37		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (6/05)

MIDLAND STANDARD ENGINEERING & TESTING, INC.
STRUCTURE FOUNDATION BORING LOG

Page 1 of 1
Date 6/12/13

ROUTE 1223 DESCRIPTION Washington StreetBike Path LOGGED BY MP
SECTION 09-00135-11-BT LOCATION East Extension of Wall
COUNTY Lake STRUCTURE NO. (Exist) (Prop.)

BORING NO. B-3		DRILLING METHOD CFA		HAMMER TYPE Automatic		
Station	524+55	ELEVATION	DEPTH	BLOWS	UCS	
Offset	14' R					
Ground Surface Elev.	770.5+/- (ft.)					
Surface Water Elev.						
Groundwater Elev.	9.5' (ft.)					
First Encounter	14.4' (ft.)					
Upon Completion						
After						
Hrs.						
SOIL DESCRIPTION		(ft.)	(ft.)	#6"	(tsf)	(%)
Black Silty CLAY Topsoil over dark Brown & black Clay LOAM, A-6 FILL, very stiff						
	740.5	6	6-7	3.0 Qp	14	
Dark Grey, Brown, & Black CLAY, A-6 FILL stiff						
	785.5	4	3	1.73 BS	14	
	785.5	4	4-4			
Dark Grey Silty CLAY, A-6, little organics						
	764.5	2	2-4	0.78 S	18	
Brown and Grey Silty Clay LOAM, A-6 firm to stiff						
	760	2	2-6	1.75 Qp	16	
Grey CLAY, A-6 very stiff to stiff						
	760	12	4	5-8	14	
	760	4	7-9	3.10 B	16	
	760	4	5-6	0.97 B	18	
	760	4	5-6	1.36 B	19	
	760	3	4-5	1.16 B	18	
	760	24	1	1.20 B	16	
	760	10	1	1.37		
Gravel Layer 26' to 26.5'						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (6/05)

J:\2122\cod\Strucr\09_boring_logs.dgn 12:32:07 PM 3/23/2014



450 E Devon Ave, Suite 300
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

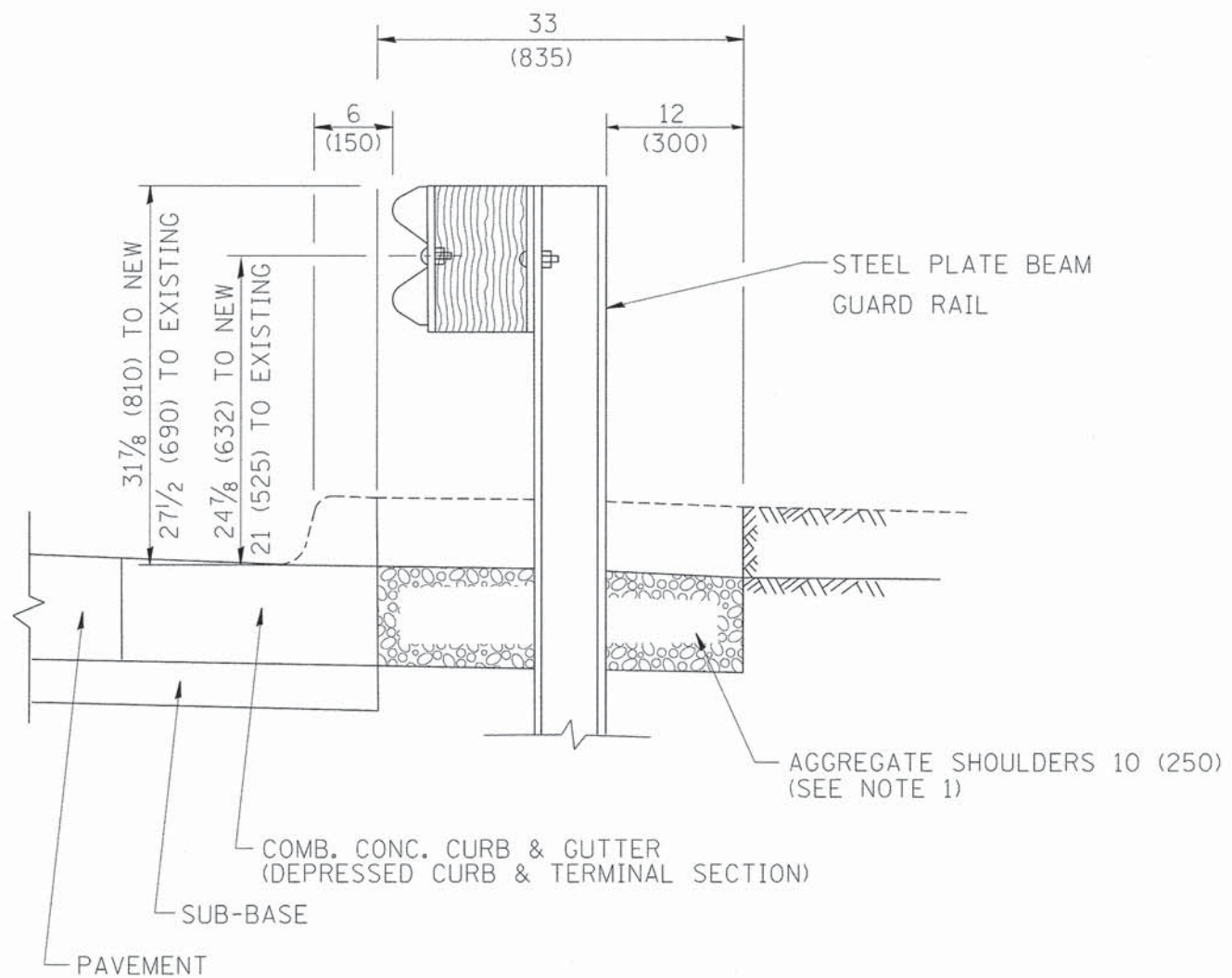
DRAWN	- M. LANGE	REVISED	-
DESIGNED	- M. LANGE	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- MARCH 24, 2014	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
WALL A, WASHINGTON STREET

SHEET NO. 59 OF 59 SHEETS

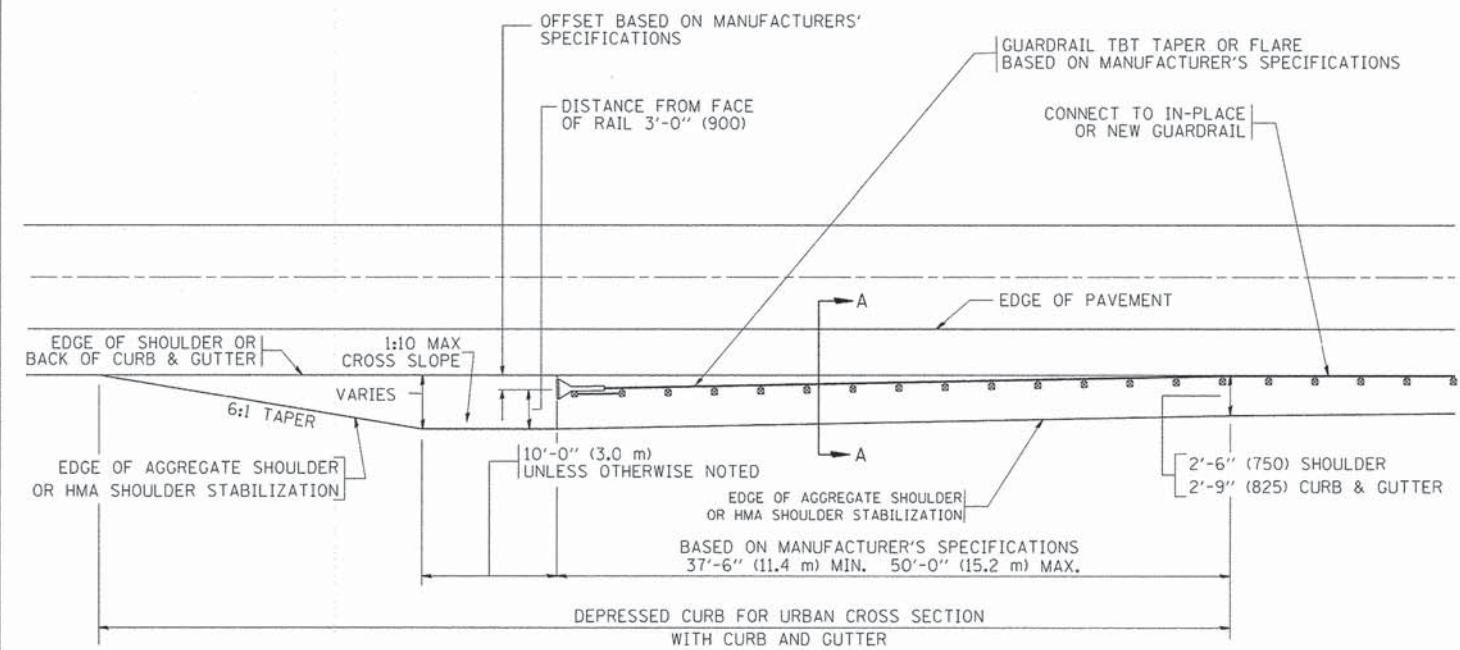
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	50
CONTRACT NO. 61A40				
ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM
 GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND
 SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

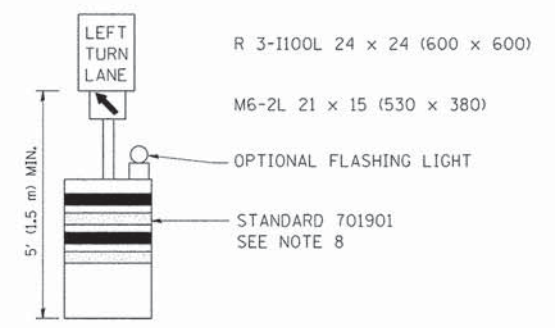
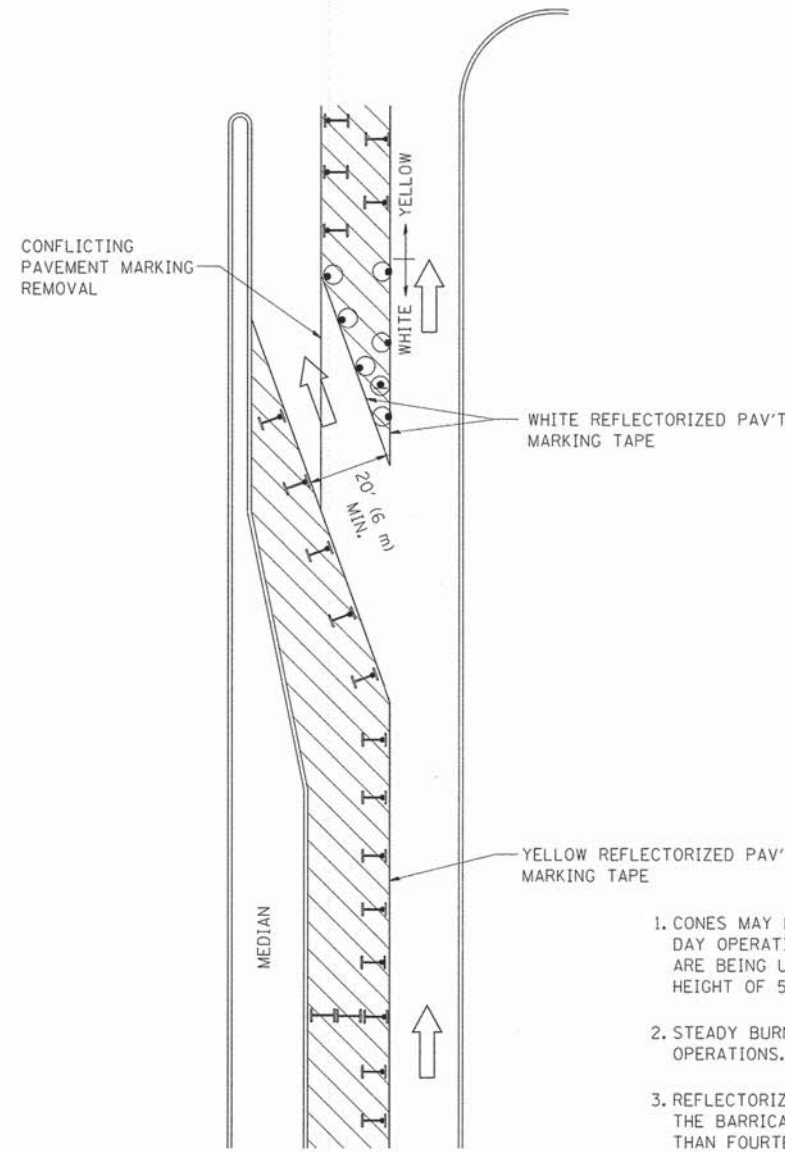
TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drlvakosgn	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
c:\pwork\PW100T\DRIVAKOSGN\d0108315b34.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 49.9999' / IN.	CHECKED -	REVISED - R. BORO 12-08-2008
	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	51
BD600-10 (BD 34)			CONTRACT NO.	61A40
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				









GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

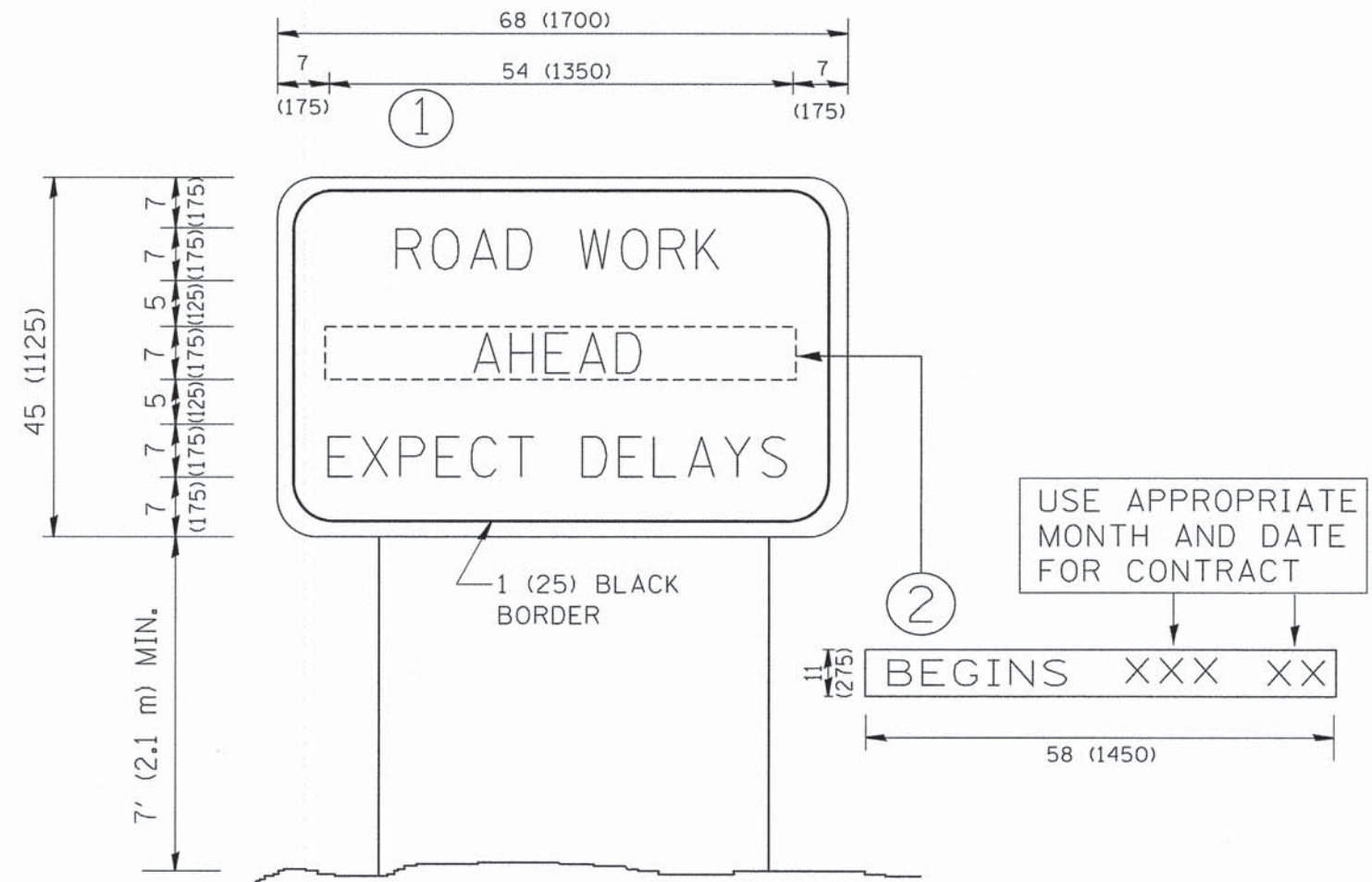
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = drivakosgn	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
es\pv_work\PWIDOT\DRIVAKOSGN\0108315\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 49,9999 "/ IN.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 9/14/2009	REVISED -T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	52
TC-14		CONTRACT NO.	61A40	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

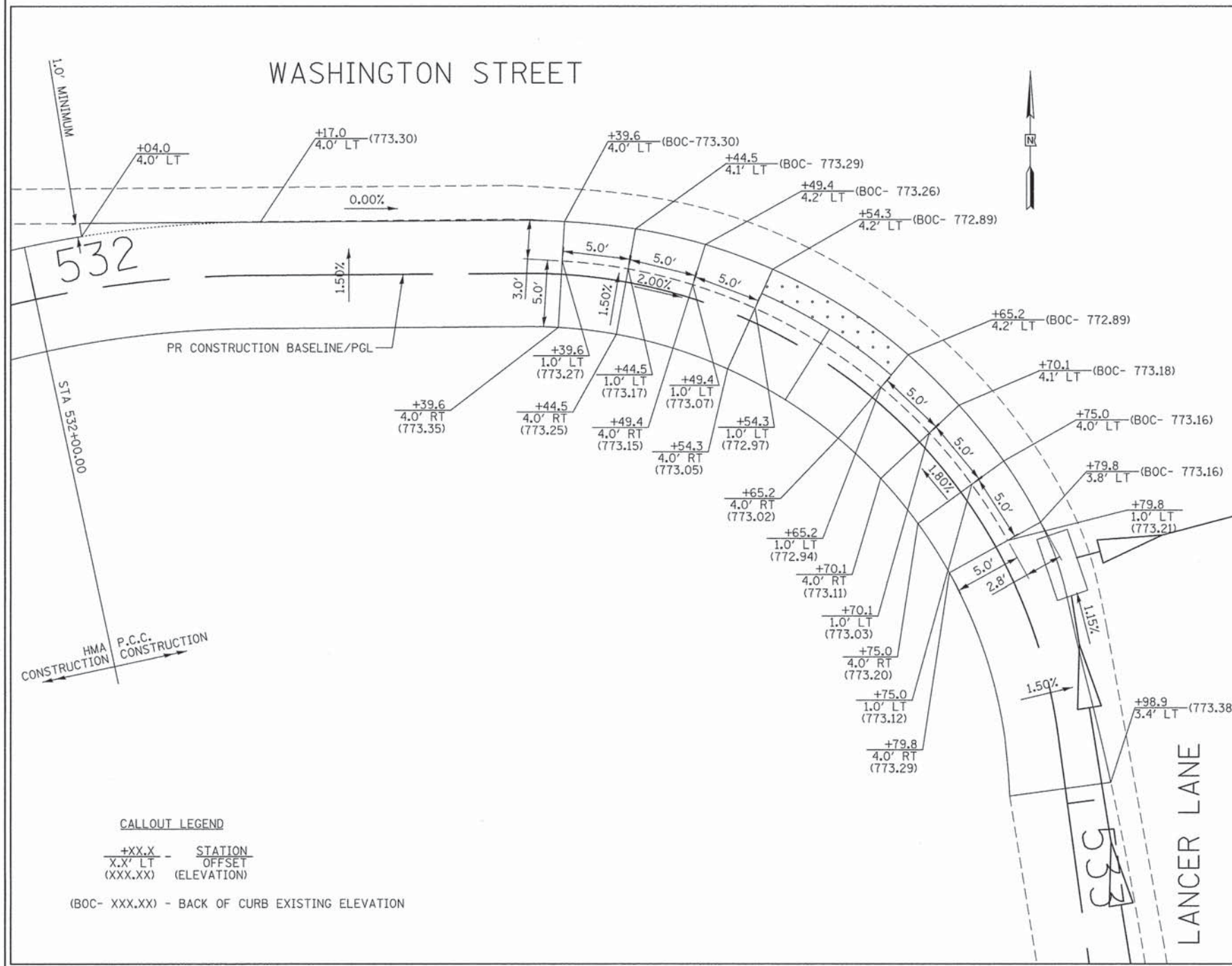
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.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

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

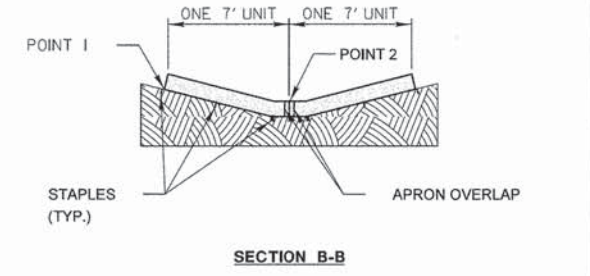
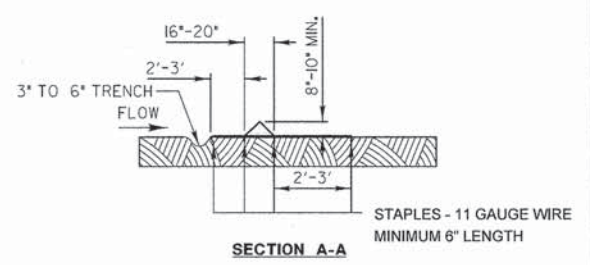
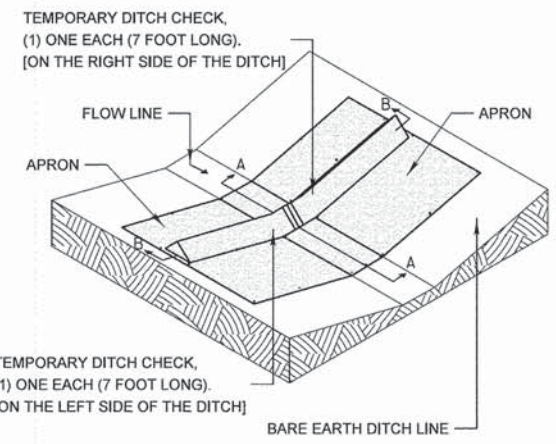
FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglienobt	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 53
PLOT SCALE = 50,000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22		CONTRACT NO. 61A40	
PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

DATE	
BY	
REVISIONS	
PLANNED	
NOTES	
NO.	

DATE	
BY	
REVISIONS	
PLANNED	
NOTES	
NO.	



FOR BARE EARTH APPLICATION ONLY



NOTES:
THE TEMPORARY DITCH CHECK SHALL BE USED IN BARE EARTH DITCH LINES AND SHALL BE REMOVED JUST PRIOR TO THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A TEMPORARY DITCH CHECK 14 FEET IN LENGTH.

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE 7' UNIT AS SHOWN ON THE DIAGRAM.

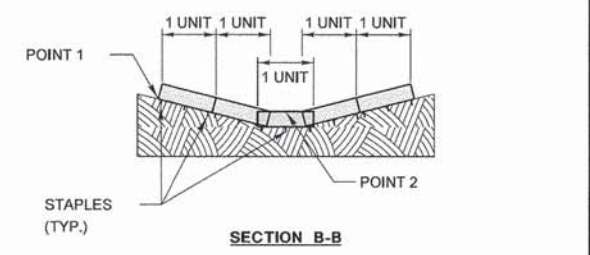
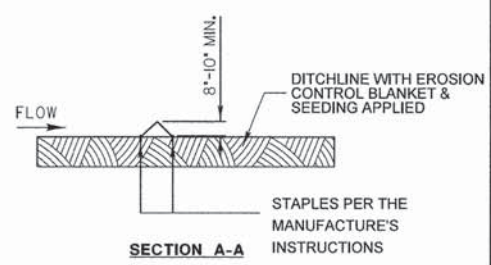
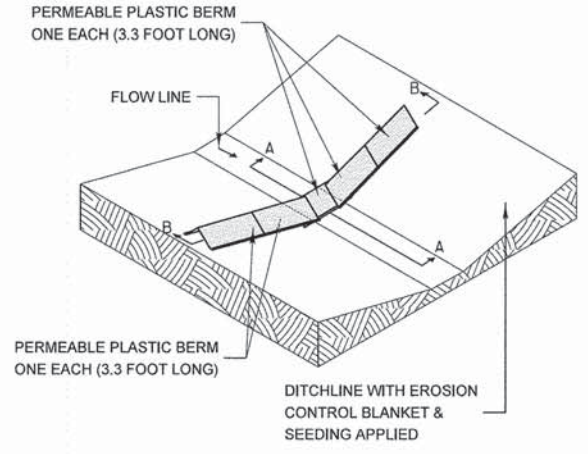
POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ADDED DIMENSIONS	04/11/08	DATE: APRIL 1, 2007
REVISED PAY ITEM	04/15/10	
ADDED PLASTIC BERM (pg2)	10/10/12	

TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH

(SHEET 1 OF 2)

FOR USE WHILE ESTABLISHING FINAL LANDSCAPING



NOTES:
THE PERMEABLE PLASTIC BERM SHALL REPLACE THE TEMPORARY DITCH CHECK AFTER THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

EACH PERMEABLE PLASTIC BERM IS 3.3 FEET IN LENGTH. THE MINIMUM INSTALLATION IN A DITCH SHALL BE THREE UNITS. THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A PERMEABLE PLASTIC BERM 16.5 FEET IN LENGTH (5 UNITS).

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS THROUGH OR OVER THE BERM AND NOT AROUND THE ENDS.

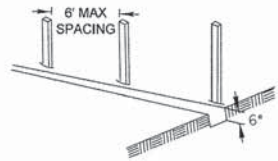
REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ADDED DIMENSIONS	04/11/08	DATE: APRIL 1, 2007
REVISED PAY ITEM	04/15/10	
ADDED PLASTIC BERM (pg2)	10/10/12	

TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH

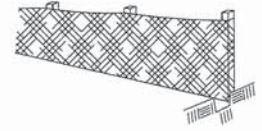
(SHEET 2 OF 2)

DATE	
BY	
REVISIONS	
PLANNED	
NOTE BOOK	
NO.	

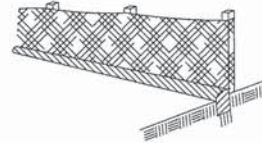
1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF POSTS



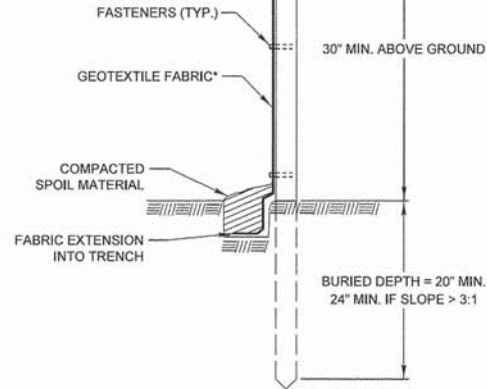
2. ATTACH GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3 (THREE) FASTENERS PER POST AND EXTEND FABRIC TO THE BOTTOM OF THE TRENCH



3. BACKFILL AND COMPACT THE EXCAVATED MATERIALS



POSTS - CHOICE OF:
1.2" X 1.2" NOMINAL HARDWOOD POSTS
2.6" X 2.6" NOMINAL NO.2 SOUTHERN PINE OR
U. T. L. OR C-SHAPE STEEL POSTS WITH MIN. WEIGHT 1.33 LBS/FT



* NOTE: OPTIONAL WIRE SUPPORT
- MIN. 30" HEIGHT
- MIN. 14 GAUGE WIRE
- MIN. 6 HORIZ. WIRES
- MIN. 6" VERTICAL SPACING

SCALE 1" = 1'

Requirements	Test Methods	Unsupported Silt Fence		
		Wire Backed Supported Silt Fence*	Geotextile Elongation >=50%*	Geotextile Elongation <50%*
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632			
Machine direction		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100 lbs
Permeability	ASTM D 4491	0.05 sec ⁻¹	0.05 sec ⁻¹	0.05 sec ⁻¹
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value		
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

REVISIONS

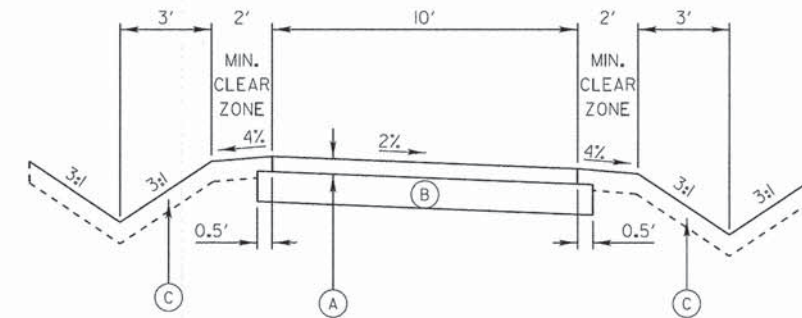
ORIG. by LCSMC	DATE	4/21/08
Update Text	DATE	7/15/11

LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: JUNE 20, 2008

PERIMETER EROSION BARRIER INSTALLATION

LC2051



- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
- (B) AGGREGATE BASE COURSE, TYPE B 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4", and SEEDING, CLASS 2A or SODDING

DESIGN NOTE:
If the Bike Path is being constructed in conjunction with the road improvement, then the Hot-Mix Asphalt mixes shall be the same as those used on the road in order to avoid multiple mix requirements.

SCALE:
VERTICAL 1" = 2"
HORIZONTAL 1" = 4'

REVISIONS

Changed BP to 3" Surface	DATE	5/1/2008
Modified Agg. Base Course	DATE	3/1/2010
CHANGE TO MIX "D"	DATE	2/20/2012
Revised Type A to Type B Aggregate	DATE	12/20/12

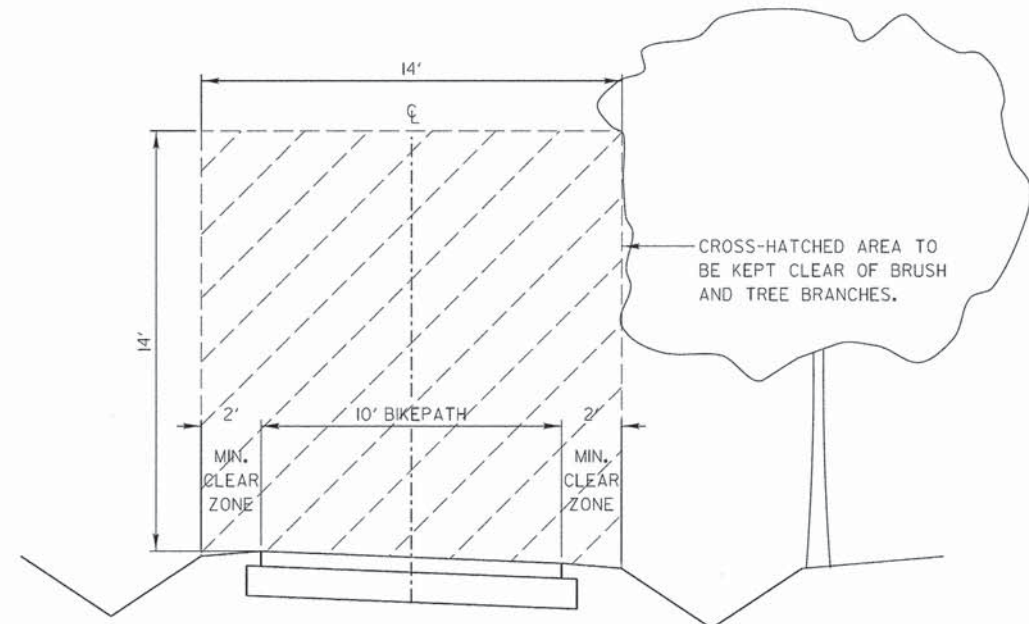
LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

TYPICAL SECTION 10' HOT-MIX ASPHALT BIKEPATH

LC4053

DATE	
BY	
REVISIONS	
PLANNED	
NOTE BOOK	
NO.	



CROSS-HATCHED AREA TO BE KEPT CLEAR OF BRUSH AND TREE BRANCHES.

SCALE:
VERTICAL 1" = 2"
HORIZONTAL 1" = 4'

REVISIONS

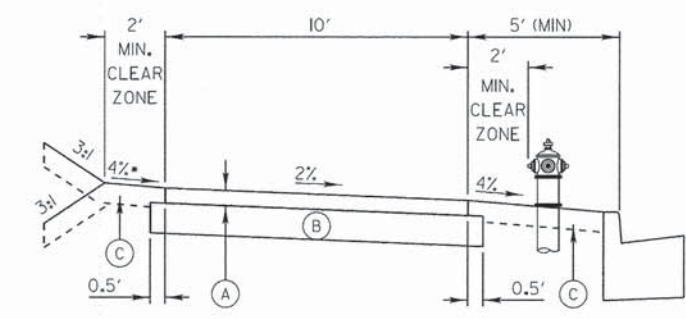
	DATE	
--	------	--

LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: 04/10/13

VEGETATION MAINTENANCE REQUIRED CLEARANCE FOR 10' BIKEPATH

LC2200



- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
- (B) AGGREGATE BASE COURSE, TYPE B 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4", and SEEDING, CLASS 2A or SODDING

DESIGN NOTE:
•Slope away from road in fill sections
Slope toward road in cut sections
If the Bike Path is being constructed in conjunction with the road improvement, then the Hot-Mix Asphalt mixes shall be the same as those used on the road in order to avoid multiple mix requirements.

SCALE:
VERTICAL 1" = 2"
HORIZONTAL 1" = 4'

REVISIONS

Changed BP to 3" Surface	DATE	5/1/2008
Modified Agg. Base Course	DATE	3/1/2010
CHANGE TO MIX "D"	DATE	2/20/2012
Revised Type A to Type B Aggregate	DATE	12/20/12

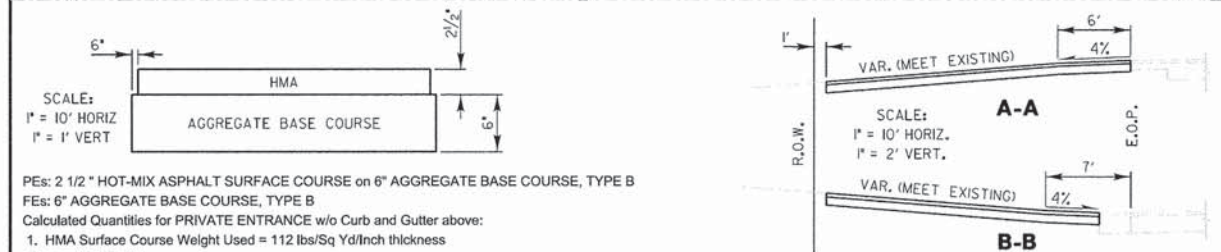
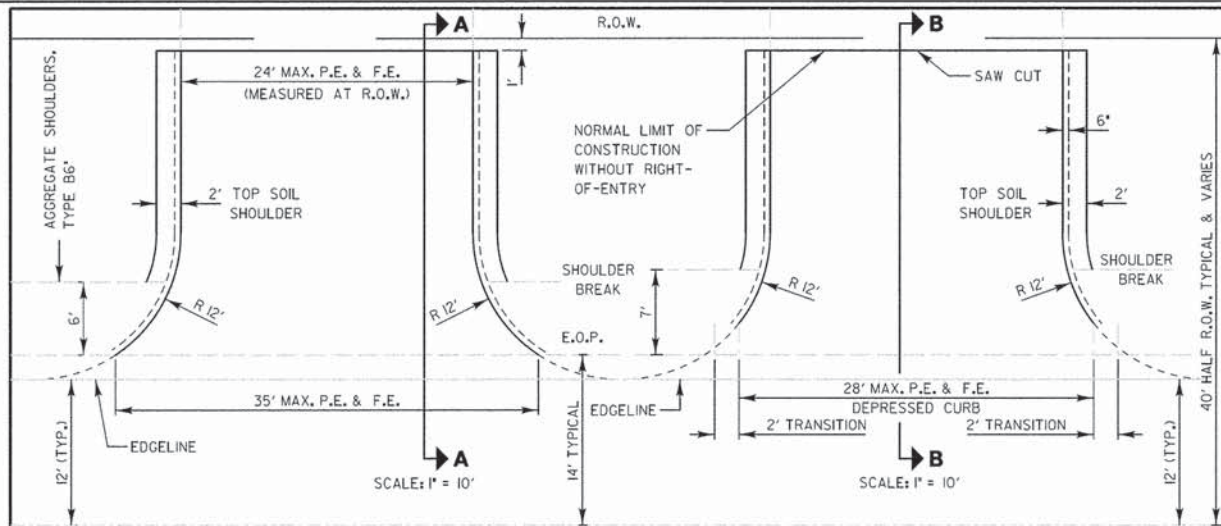
LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

TYPICAL SECTION 10' HOT-MIX ASPHALT BIKEPATH IN VICINITY OF CURB & GUTTER

LC4054

DATE	
BY	
SUBMITTED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



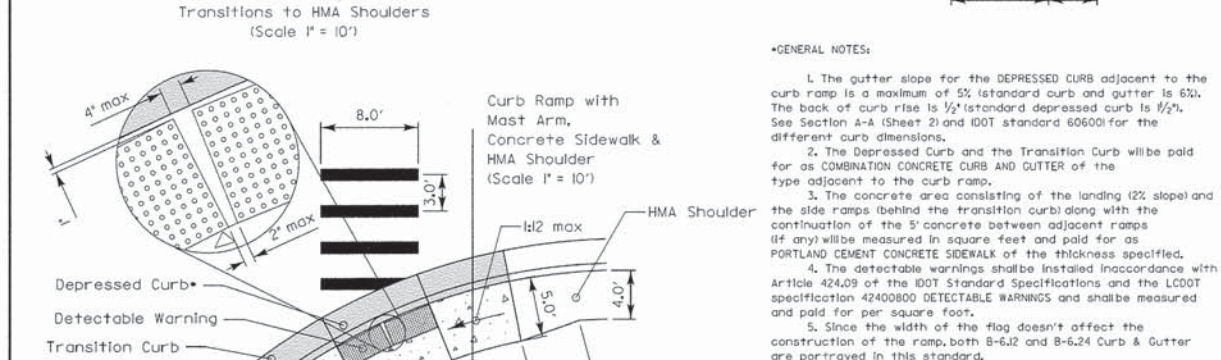
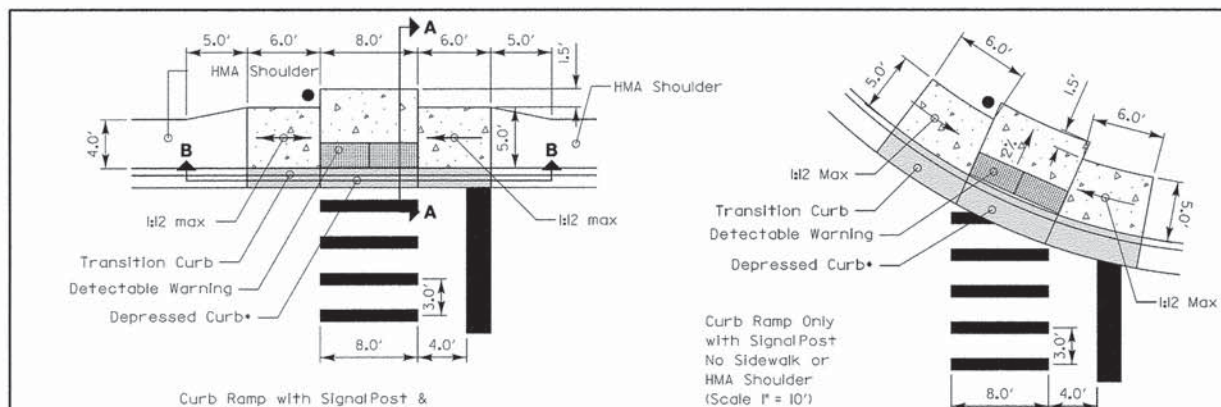
PEs: 2 1/2" HOT-MIX ASPHALT SURFACE COURSE on 6" AGGREGATE BASE COURSE, TYPE B
 FEs: 6" AGGREGATE BASE COURSE, TYPE B
 Calculated Quantities for PRIVATE ENTRANCE w/o Curb and Gutter above:
 1. HMA Surface Course Weight Used = 112 lbs/Sq Yd/inch thickness
 Area = 72.6 Sq Yd
 72.6 Sq Yd X 112 lb/Sq Yd/inch x 2.5 Inches = 20,328.0 lb
 Converting to Tons = 20,328.0 lb/2000 lb/Ton = 10.16 Ton
 Round to = **10 Ton**
 2. Aggregate Base Course Weight Used = 2 Ton/Cu Yd
 75.63 Sq Yd x 2 Ton/Cu Yd x 0.1667 Yd thickness = 25.22 Ton
 Round to = **25 Ton**

REVISIONS	DATE
Removed Prime Coat Qty	5/20/08
Revised Ent. EOP Radius	6/4/10
Revised Type A to Type B Aggregate	12/20/12

LakeCounty Division of Transportation
 APPROVED BY: M. G. ZEMAITIS
 DATE: APRIL 1, 2007

TYPICAL MINOR ACCESS (PRIVATE ENTRANCE)

DATE	
BY	
SUBMITTED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



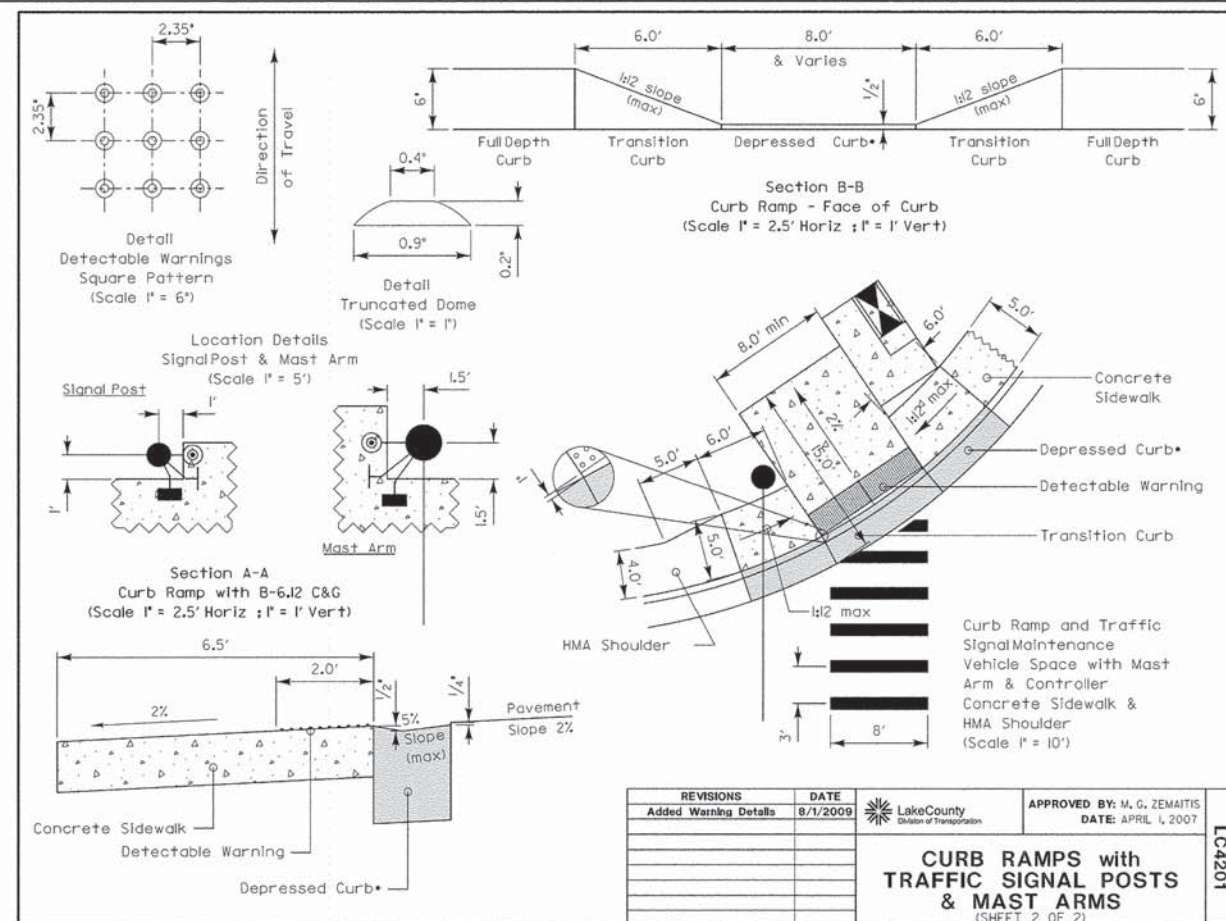
GENERAL NOTES:

- The gutter slope for the DEPRESSED CURB adjacent to the curb ramp is a maximum of 5% (standard curb and gutter is 6%). The back of curb rise is 1/2" (standard depressed curb is 1/2"). See Section A-A (Sheet 2) and IDOT standard 606001 for the different curb dimensions.
- The Depressed Curb and the Transition Curb will be paid for as COMBINATION CONCRETE CURB AND GUTTER of the type adjacent to the curb ramp.
- The concrete area consisting of the landing (2% slope) and the side ramps (behind the transition curb) along with the continuation of the 5' concrete between adjacent ramps (if any) will be measured in square feet and paid for as PORTLAND CEMENT CONCRETE SIDEWALK of the thickness specified.
- The detectable warnings shall be installed in accordance with Article 424.09 of the IDOT Standard Specifications and the LCDOT specification 42400800 DETECTABLE WARNINGS and shall be measured and paid for per square foot.
- Since the width of the flag doesn't affect the construction of the ramp, both B-6J2 and B-6.24 Curb & Gutter are portrayed in this standard.

REVISIONS	DATE
Added Warning Details	8/1/2009

LakeCounty Division of Transportation
 APPROVED BY: M. G. ZEMAITIS
 DATE: APRIL 1, 2007

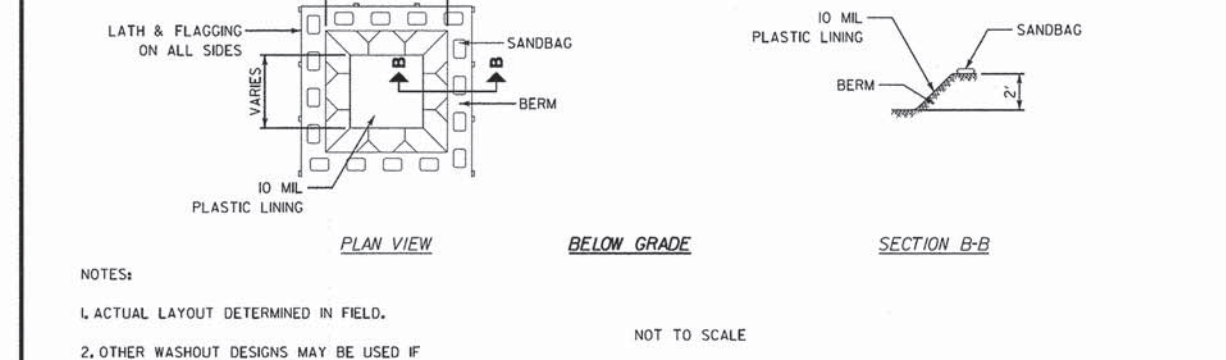
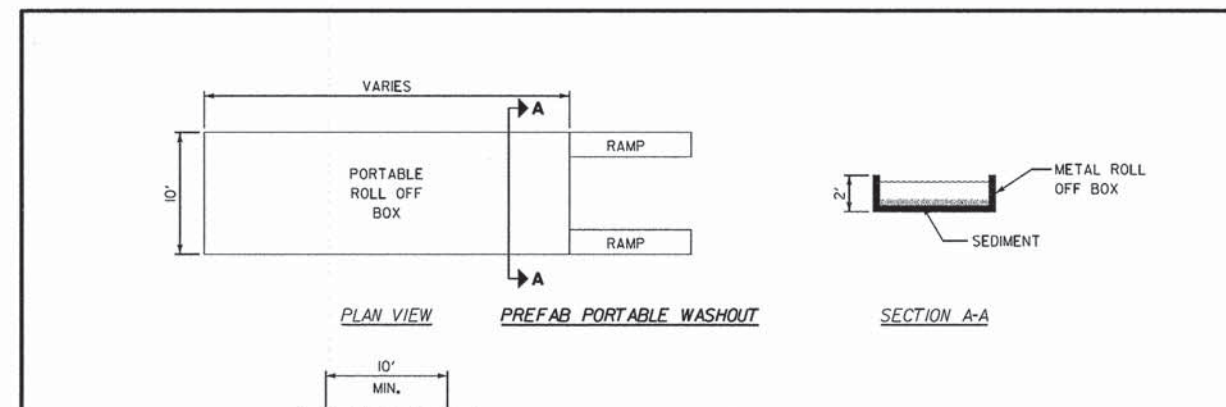
CURB RAMPS with TRAFFIC SIGNAL POSTS & MAST ARMS
 (SHEET 1 OF 2)



REVISIONS	DATE
Added Warning Details	8/1/2009

LakeCounty Division of Transportation
 APPROVED BY: M. G. ZEMAITIS
 DATE: APRIL 1, 2007

CURB RAMPS with TRAFFIC SIGNAL POSTS & MAST ARMS
 (SHEET 2 OF 2)



NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

REVISIONS	DATE
Added Warning Details	8/1/2009

LakeCounty Division of Transportation
 APPROVED BY: MGZ
 DATE: March 17, 2008

CONCRETE WASHOUT FACILITIES
 SHEET 1 OF 2

DATE	
BY	
REVISIONS	
NO.	
PLAN	
NOTE BOOK	
CHECKED	
FILE NAME	

CONCRETE WASHOUT FACILITIES
SHEET 2 OF 2

REVISIONS: [Table with columns for REVISIONS, DATE, and APPROVED BY: MGZ DATE: March 17, 2008]

NOTES:
 1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
 3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

DRAINAGE STRUCTURES RIM ELEVATIONS AND OFFSETS

REVISIONS: [Table with columns for REVISIONS, DATE, and APPROVED BY: MGZ DATE: 03/09/2012]

NOTES:
 RIM ELEVATION AND OFFSET GIVEN AT EDGE OF PAVEMENT
 RIM ELEVATION AND OFFSET GIVEN AT CENTER OF STRUCTURE
 STATION, OFFSET AND INVERT ELEVATION GIVEN TO END OF THE FLARED END SECTION

DATE	
BY	
REVISIONS	
NO.	
PROFILE	
GRADES CHECKED	
STRUCTURE	
NOTATIONS CHECKED	

GENERAL NOTES
 DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS. JOINT TIES AND HARDWARE SHALL BE GALVANIZED STEEL.
 CONCRETE CULVERT PIPE AND SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT THE LAST THREE JOINTS BEFORE A FLARED END SECTION.
 THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR CONCRETE PIPE.
 UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICATED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCLUDED IN THE COST OF PIPE CULVERTS OR STORM SEWERS.
 DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR GALVANIZED STEEL JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① 1/2" OF TONGUE AND GROOVE OR HELL AND SPIGOT JOINTS.
 ② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
 ③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM E OF TONGUE AND GROOVE.
 ④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".
 ⑤ OPENING TO BE ROD DIAMETER + 1 INCH.
 ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2" INCH OF THE INNER SURFACE OF THE PIPE.

EYE BOLT DIMENSION TABLE

PIPE SIZE	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/2"
30"	5"	7"
36"	5 1/2"	7 1/2"
42"	6"	8"
48"	6 1/2"	8 1/2"
54"	7"	9"
60"	7 1/2"	9 1/2"
66"	8"	10"

ADJUSTABLE TIE ROD TABLE

PIPE TIE ROD DIAMETER	L	H
12-40	3/4"	5 1/2"
66-84	1"	5 1/2"
90-108	1 1/4"	7 1/2"

REVISIONS: [Table with columns for REVISIONS, DATE, and APPROVED BY: M. G. ZEMAITIS DATE: 04/08]

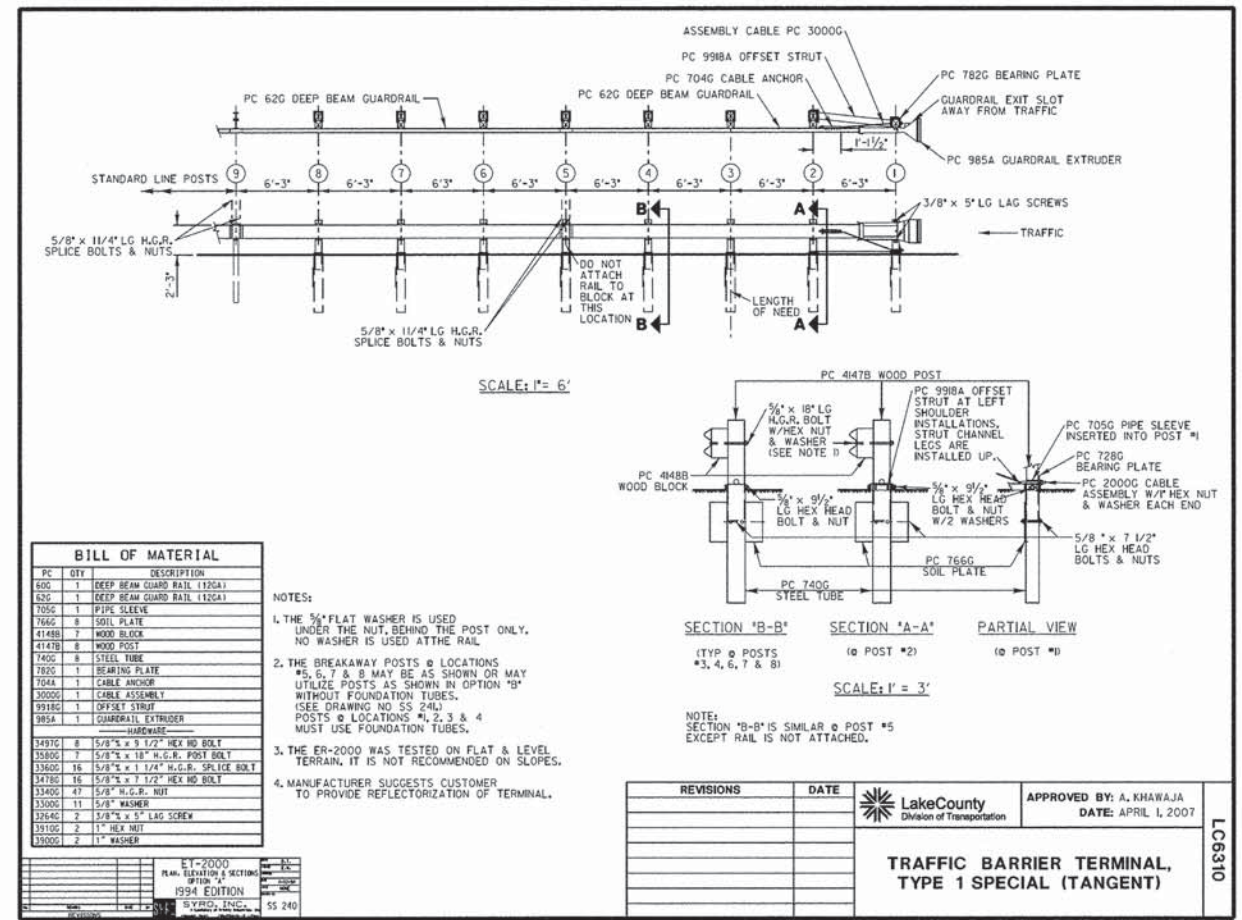
TYPICAL PIPE DRAIN/ PIPE UNDERDRAIN OUTLET

DESIGN NOTES:
 All work shall be according to the applicable portions of the "Standard Specifications" except as modified herein.
 In addition to the requirements of Article 601.08 of the "Standard Specifications", the contract unit price per foot for pipe drains 4" & 6" and pipe underdrains 4" shall include the cost of furnishing and placing the rodent shield.

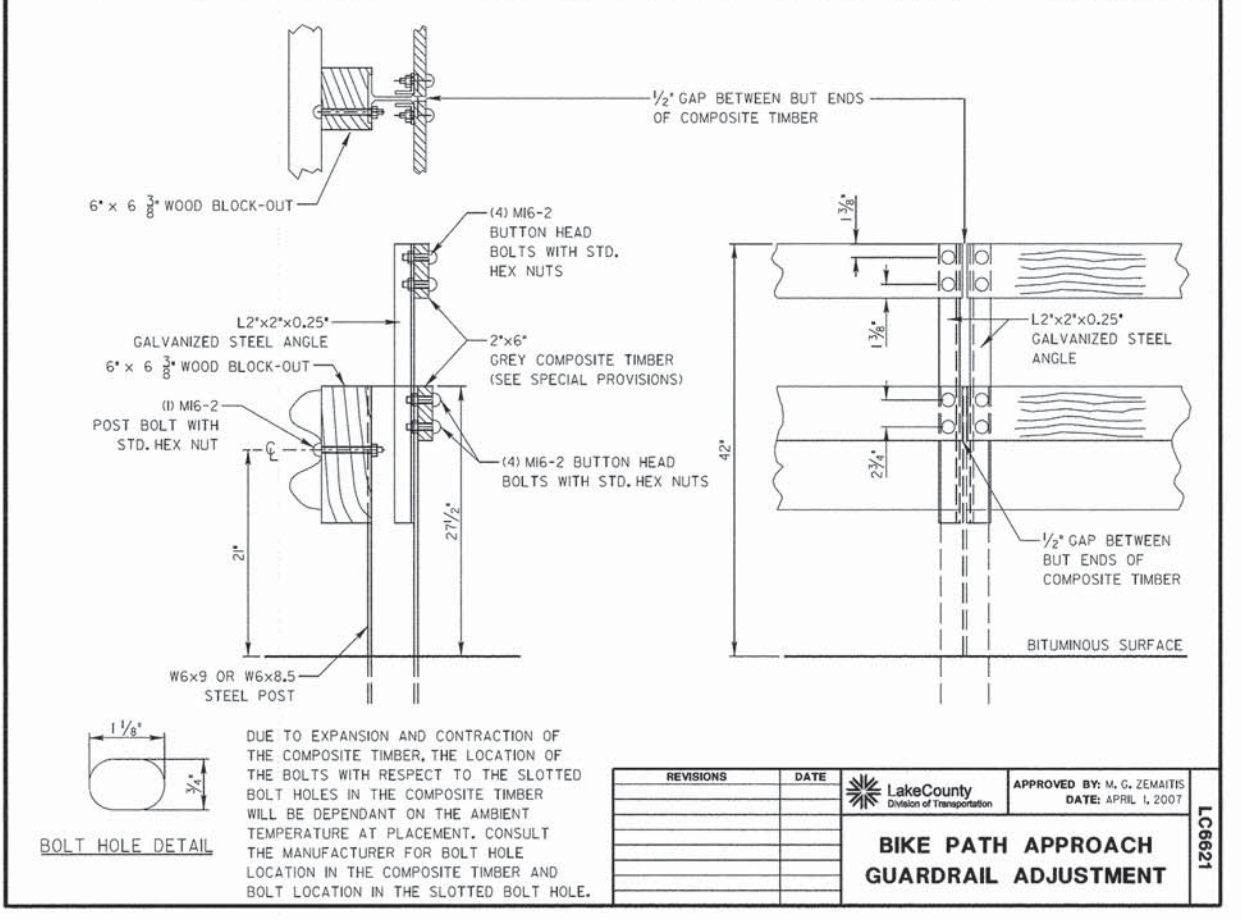
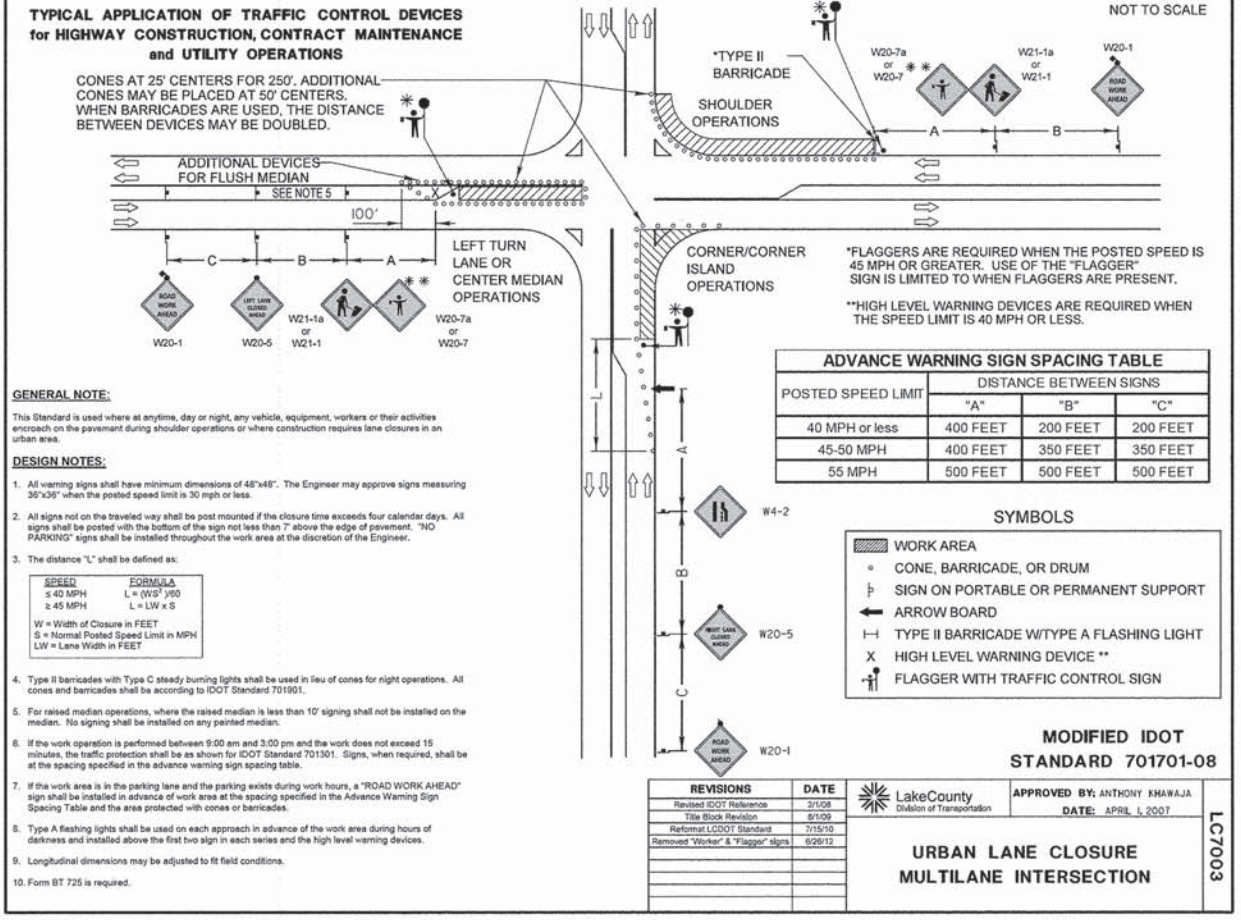
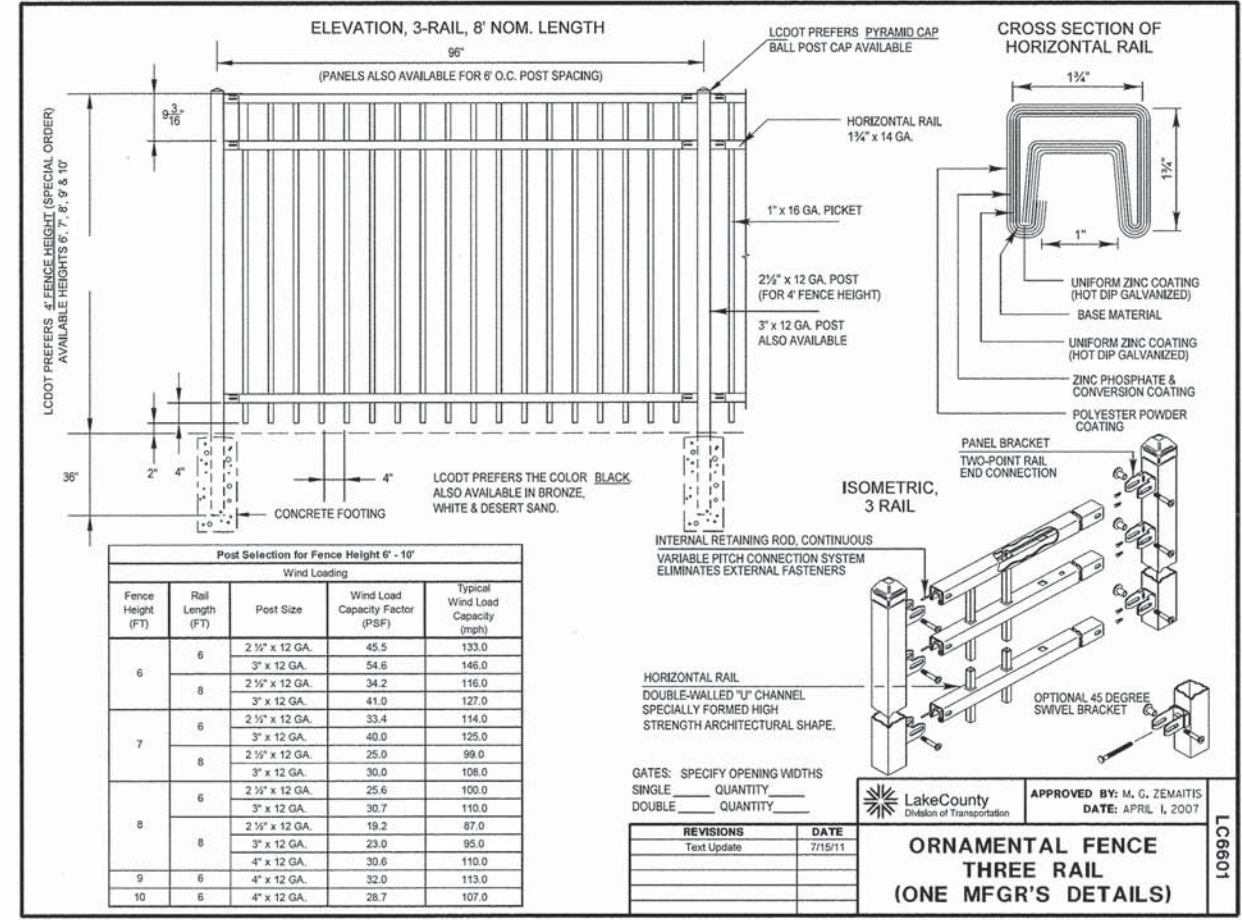
RODENT SHIELDS DETAIL (ALTERNATES)
 NOT TO SCALE

REVISIONS: [Table with columns for REVISIONS, DATE, and APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007]

DATE	
BY	
APPROVED	
NOTE BOOK	
NO.	

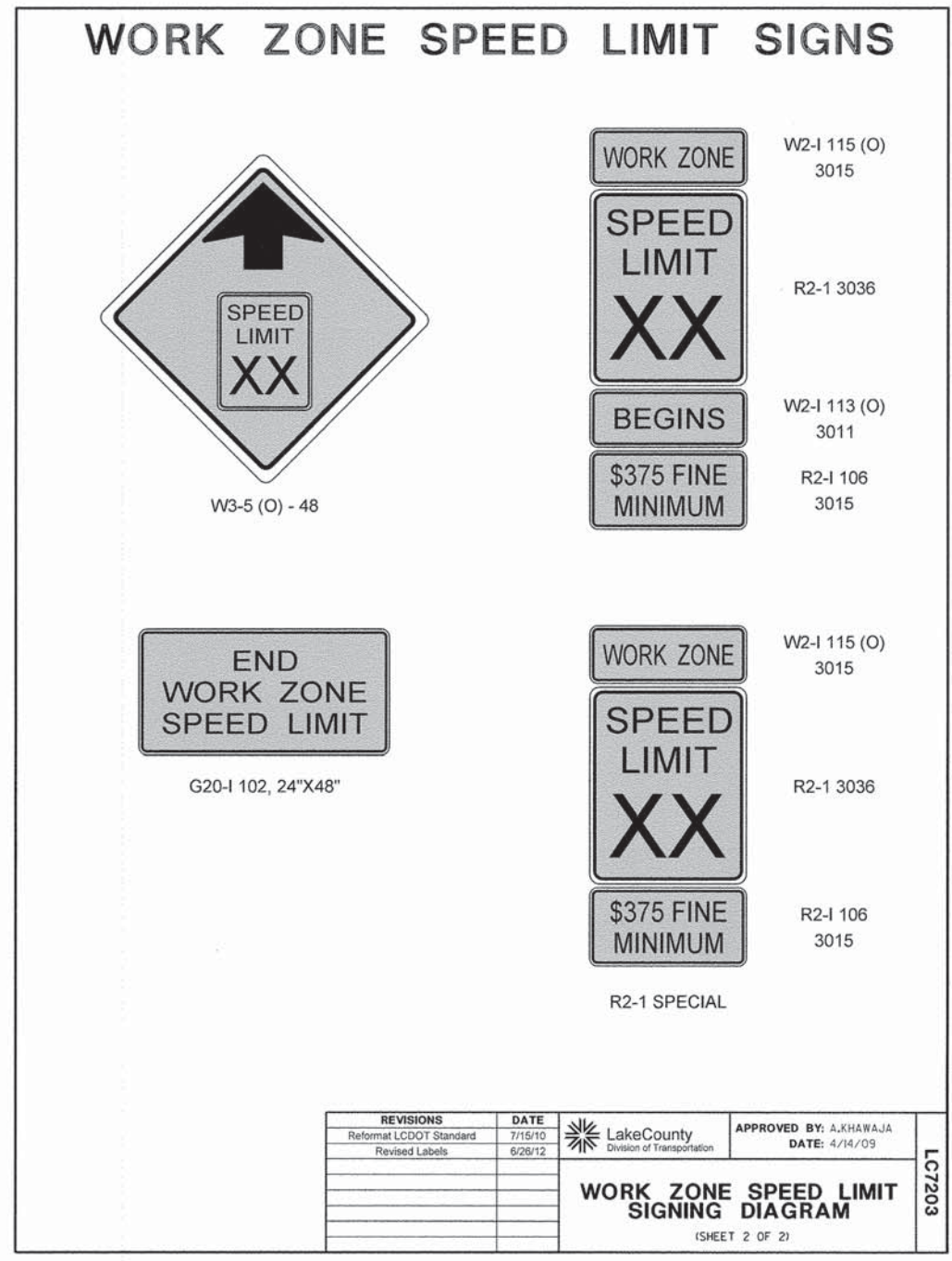
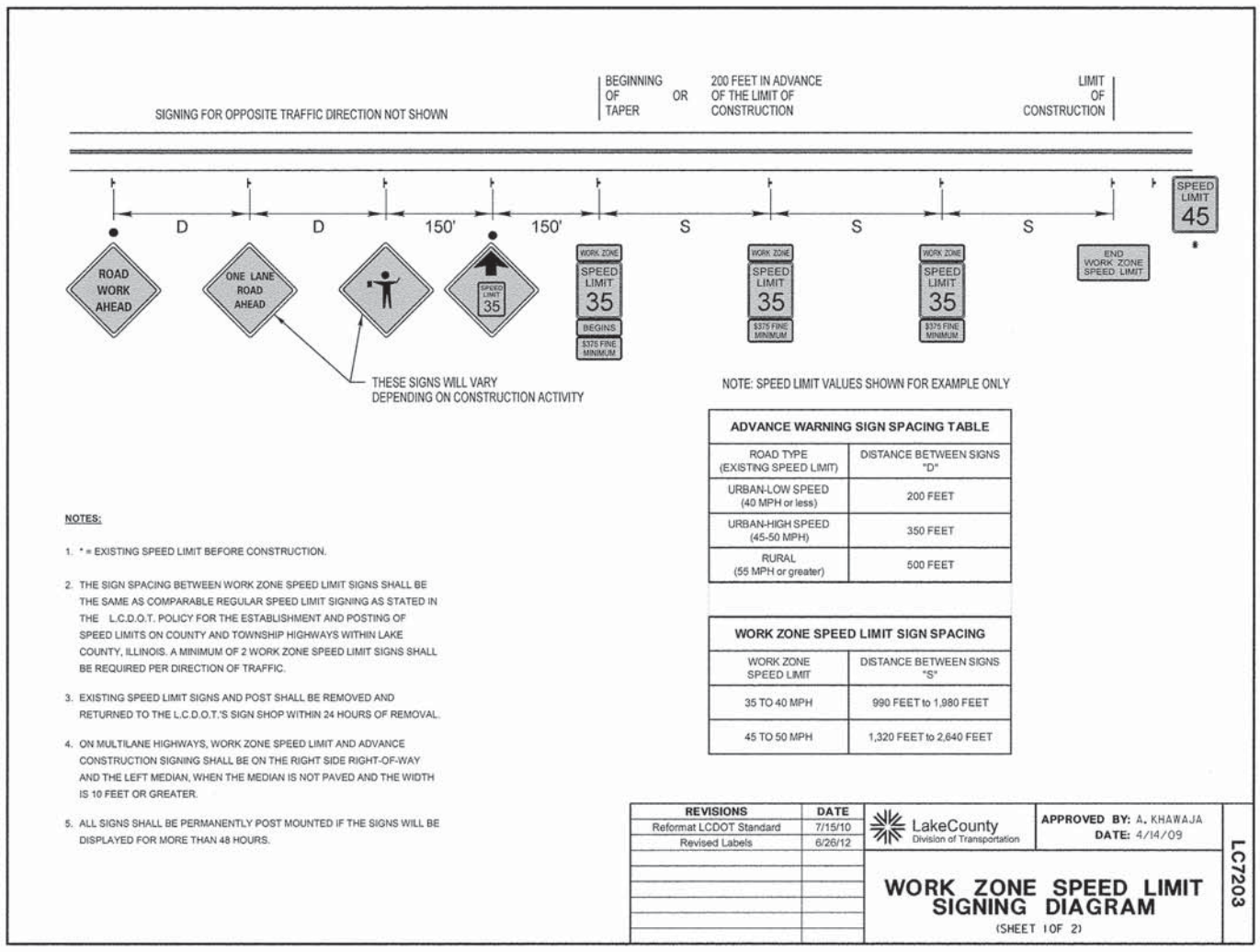


DATE	
BY	
APPROVED	
NOTE BOOK	
NO.	



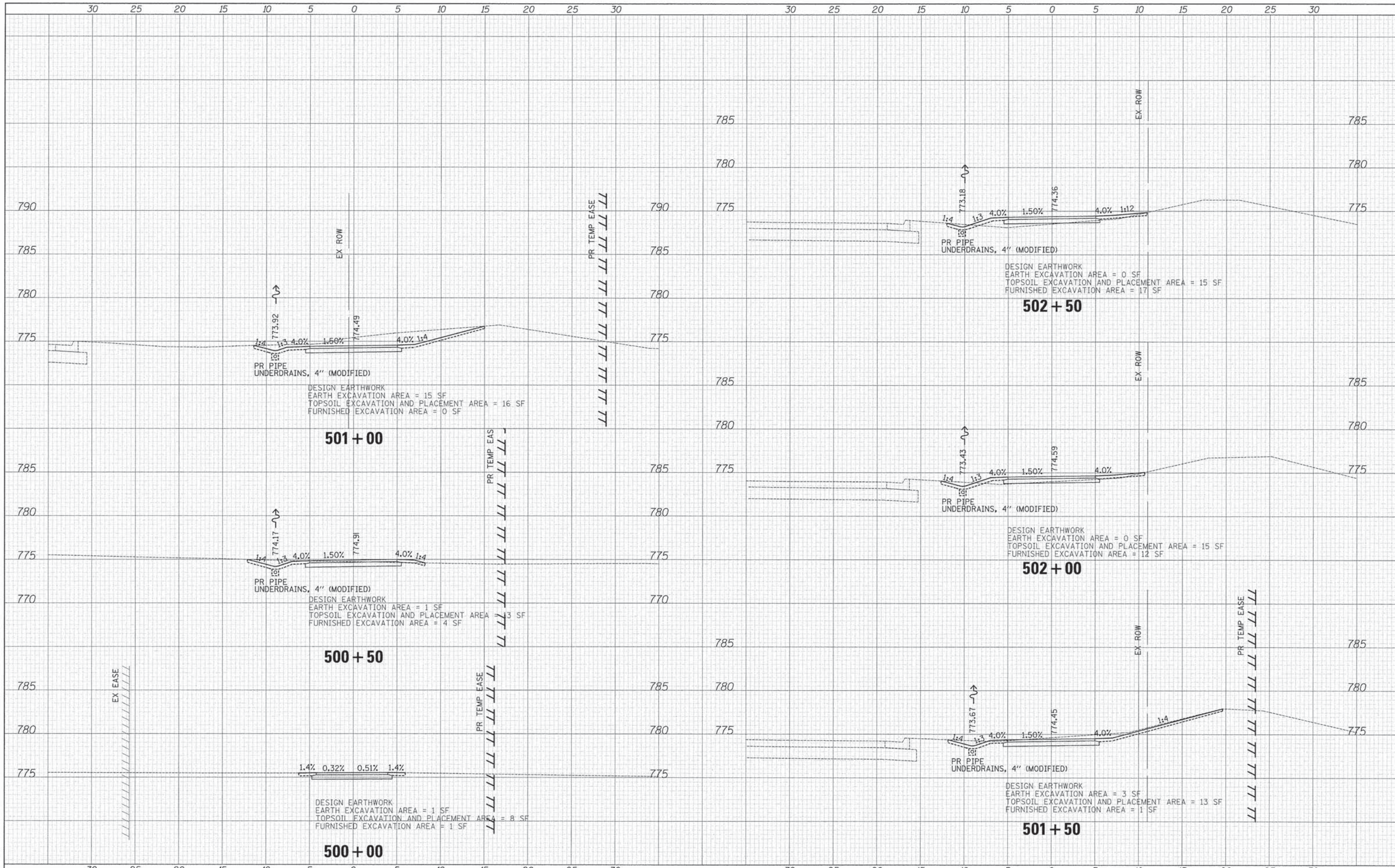
DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
CHECKED	
NOTE BOOK	
NO.	

DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
CHECKED	
NOTE BOOK	
NO.	



DATE	
BY	
FINAL SURVEY	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



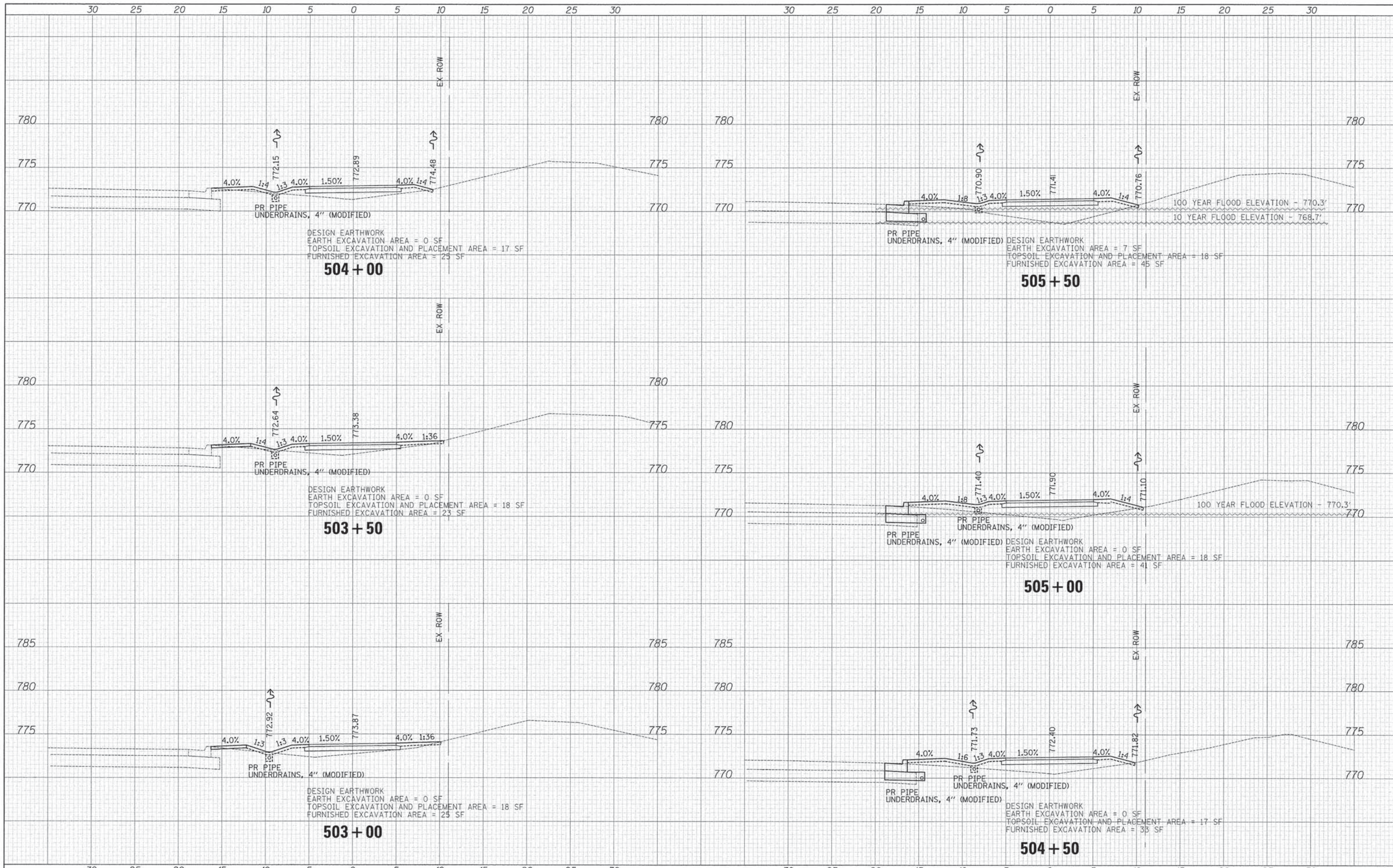
CROSS SECTIONS- WASHINGTON STREET

SHEET NO. 1 OF 11 SHEETS STA. 500+00 TO STA. 502+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	59
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT # 61A40				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
DESIGNED	
DRAWN	
CHECKED	
DATE	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED	- JRR	REVISED	-
DRAWN	- JRR	REVISED	-
CHECKED	- RTM	REVISED	-
DATE	- 03/24/2014	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



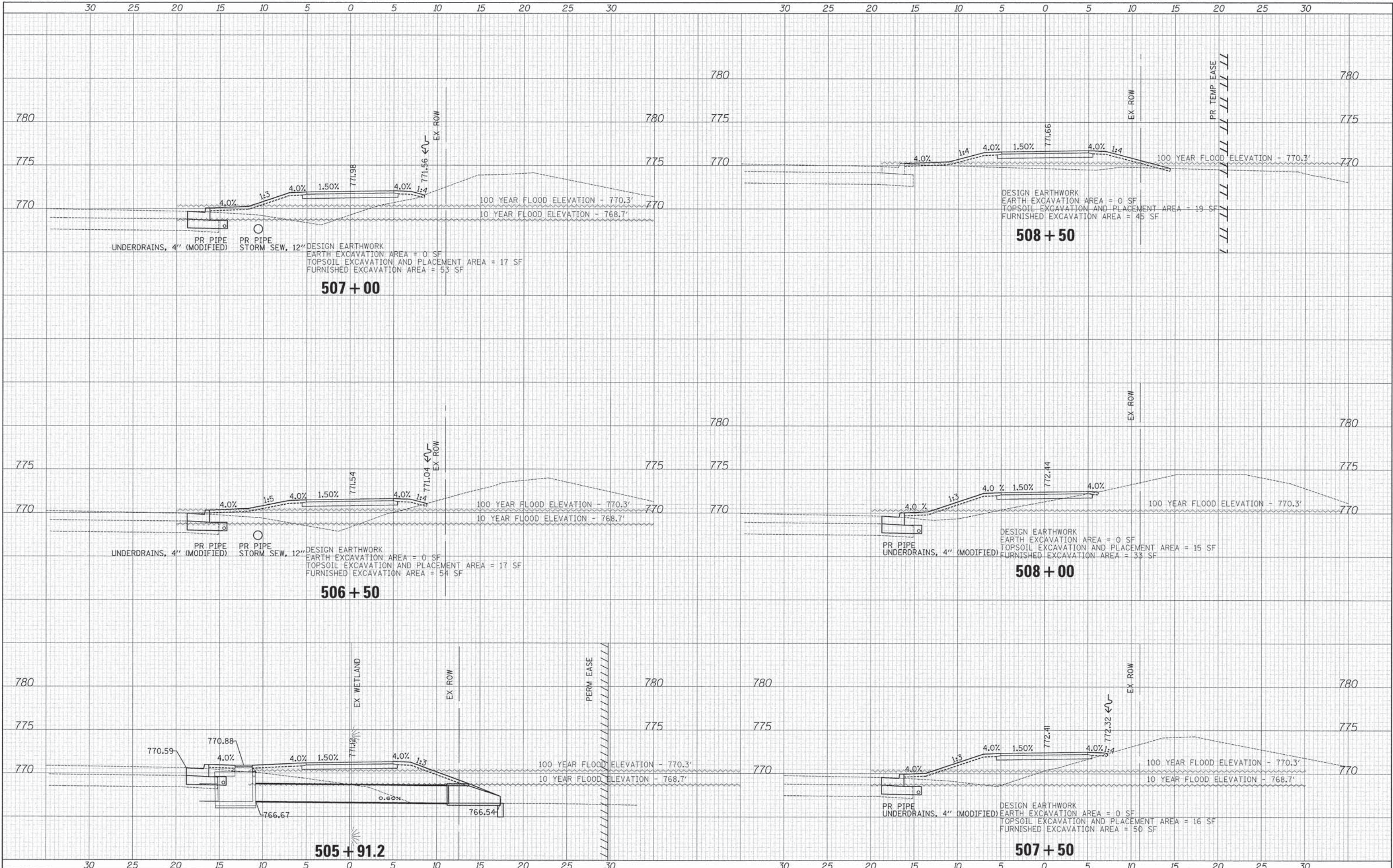
CROSS SECTIONS- WASHINGTON STREET

SHEET NO. 2 OF 11 SHEETS STA. 503+00 TO STA. 505+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	60
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



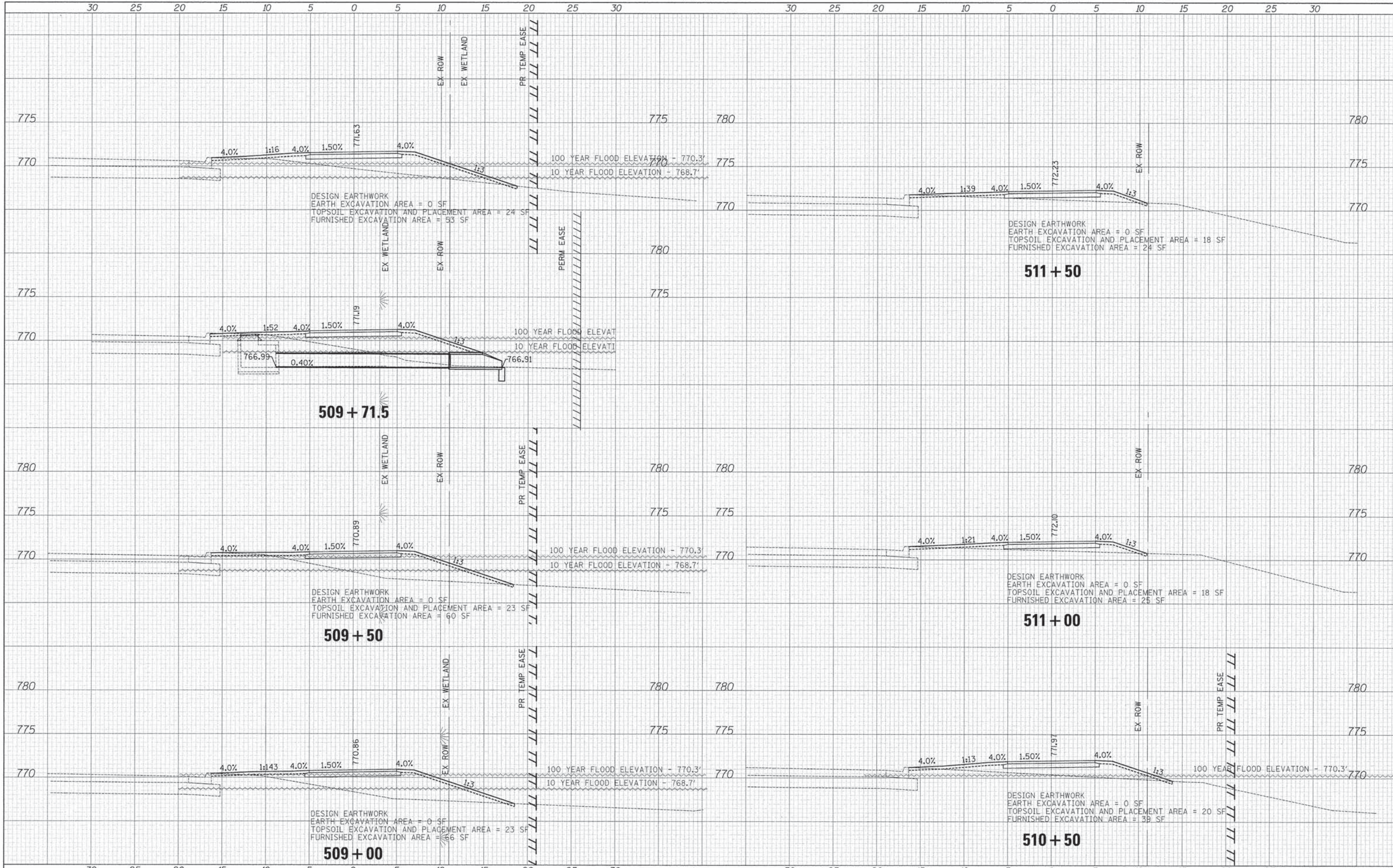
CROSS SECTIONS- WASHINGTON STREET

SHEET NO. 3 OF 11 SHEETS STA. 505+80.15 TO STA. 508+50

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 61
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

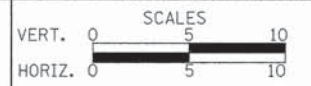
DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

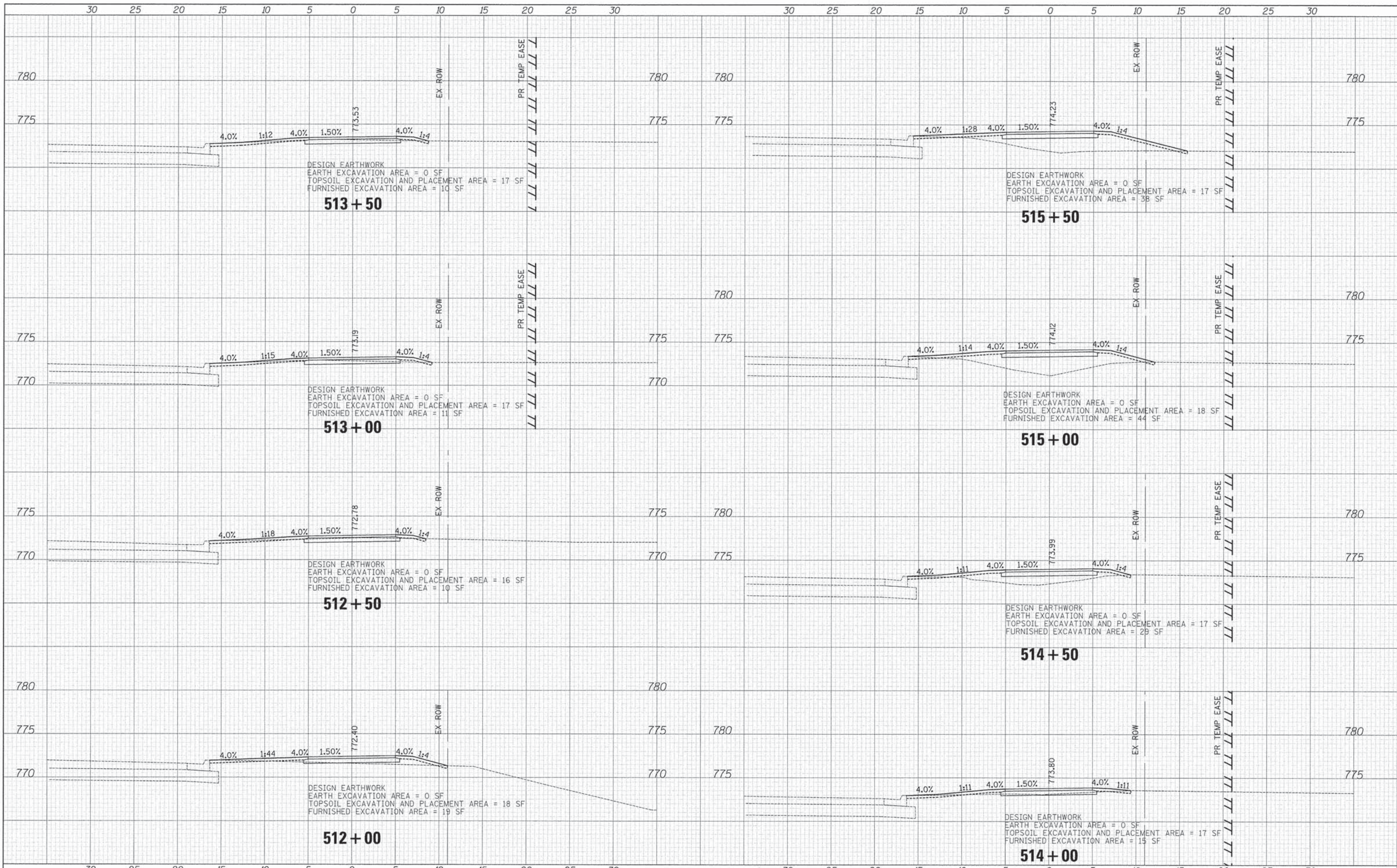
DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CROSS SECTIONS- WASHINGTON STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	62
CONTRACT # 6140				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BT	
EXAMINED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BT	
EXAMINED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

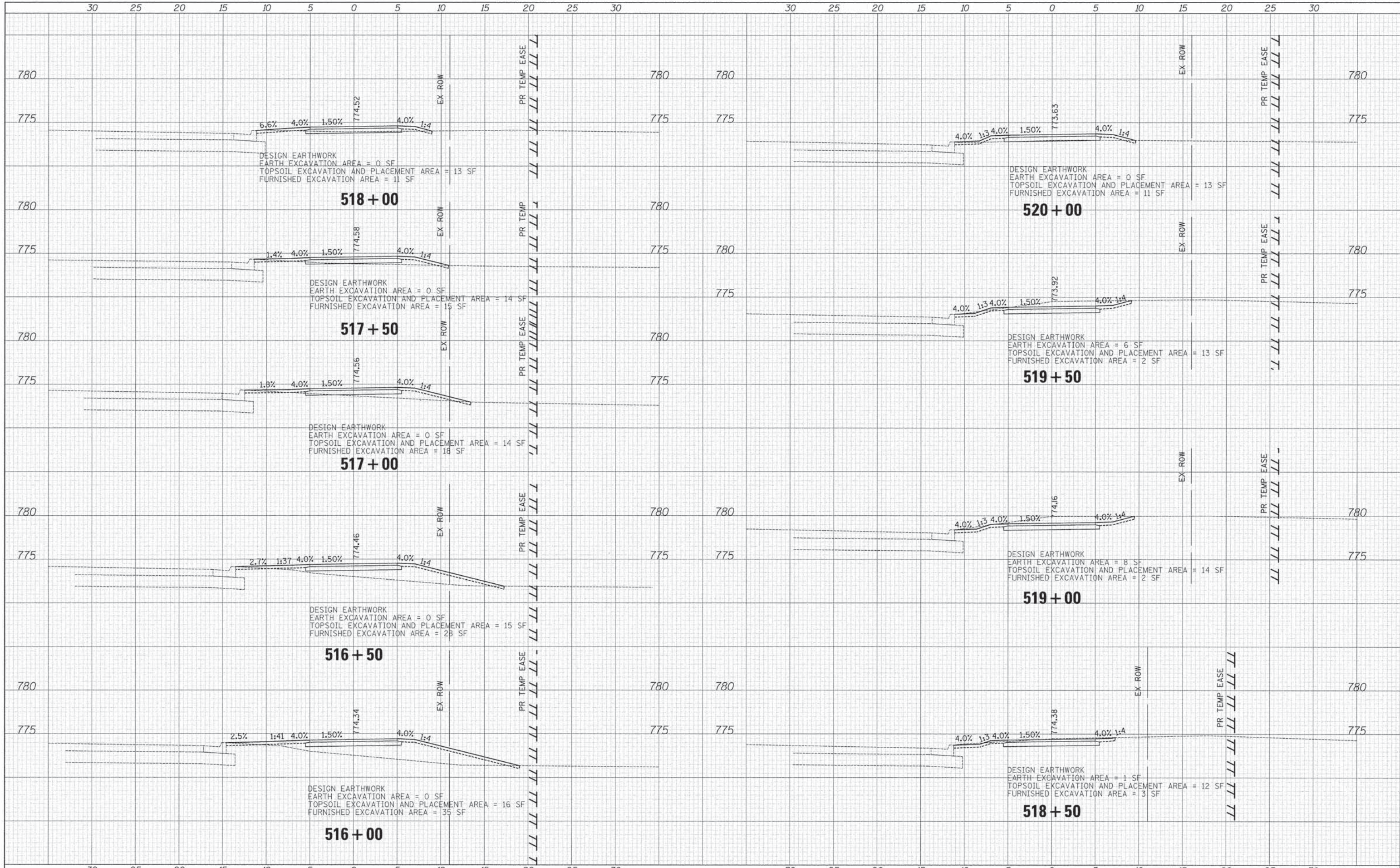


CROSS SECTIONS- WASHINGTON STREET
 SHEET NO. 5 OF 11 SHEETS STA. 511+50 TO STA. 515+50

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 63
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NO. AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NO. AREAS CHECKED	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

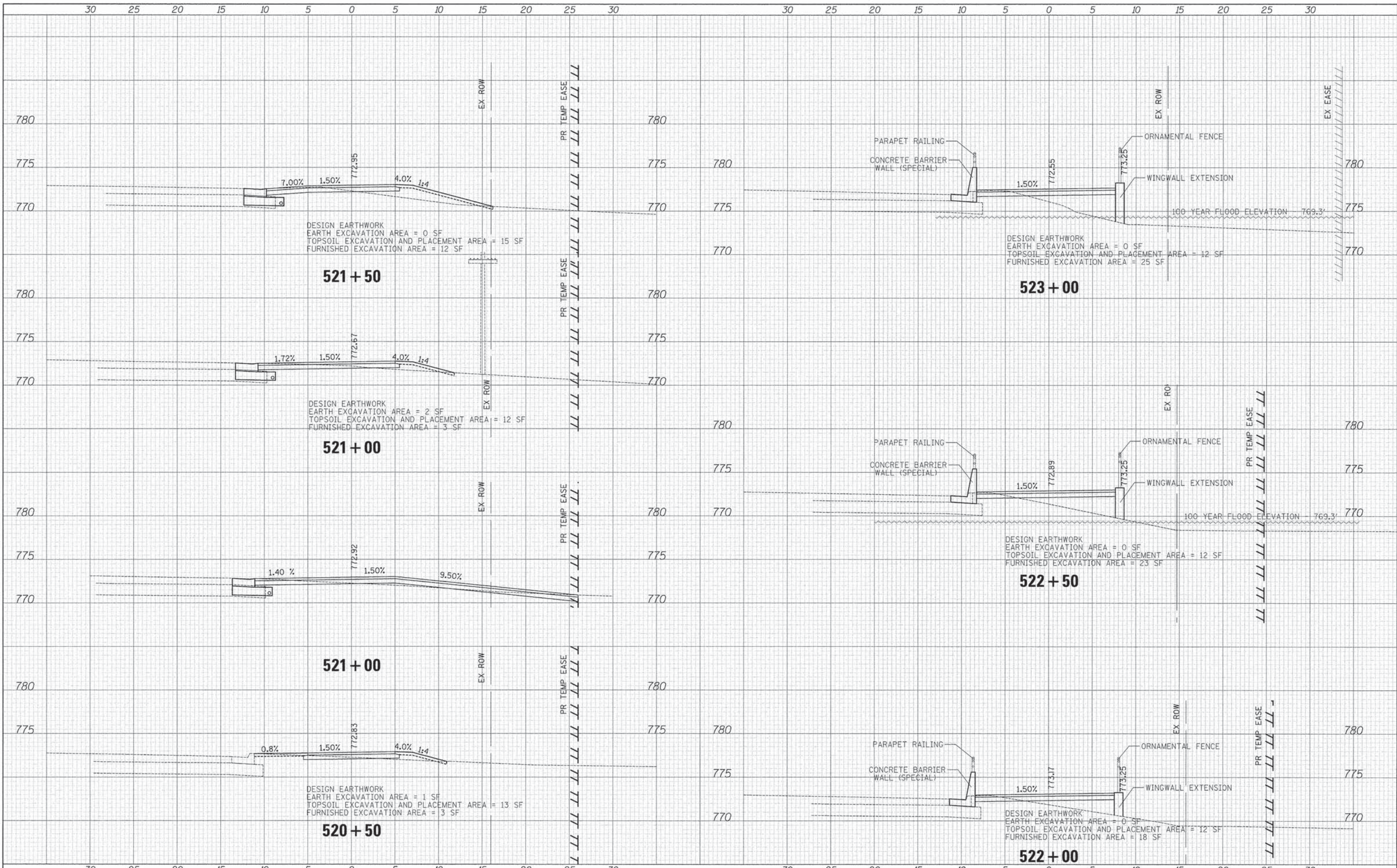
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



CROSS SECTIONS- WASHINGTON STREET

SHEET NO. 6 OF 11 SHEETS STA. 516+00 TO STA. 520+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	64
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



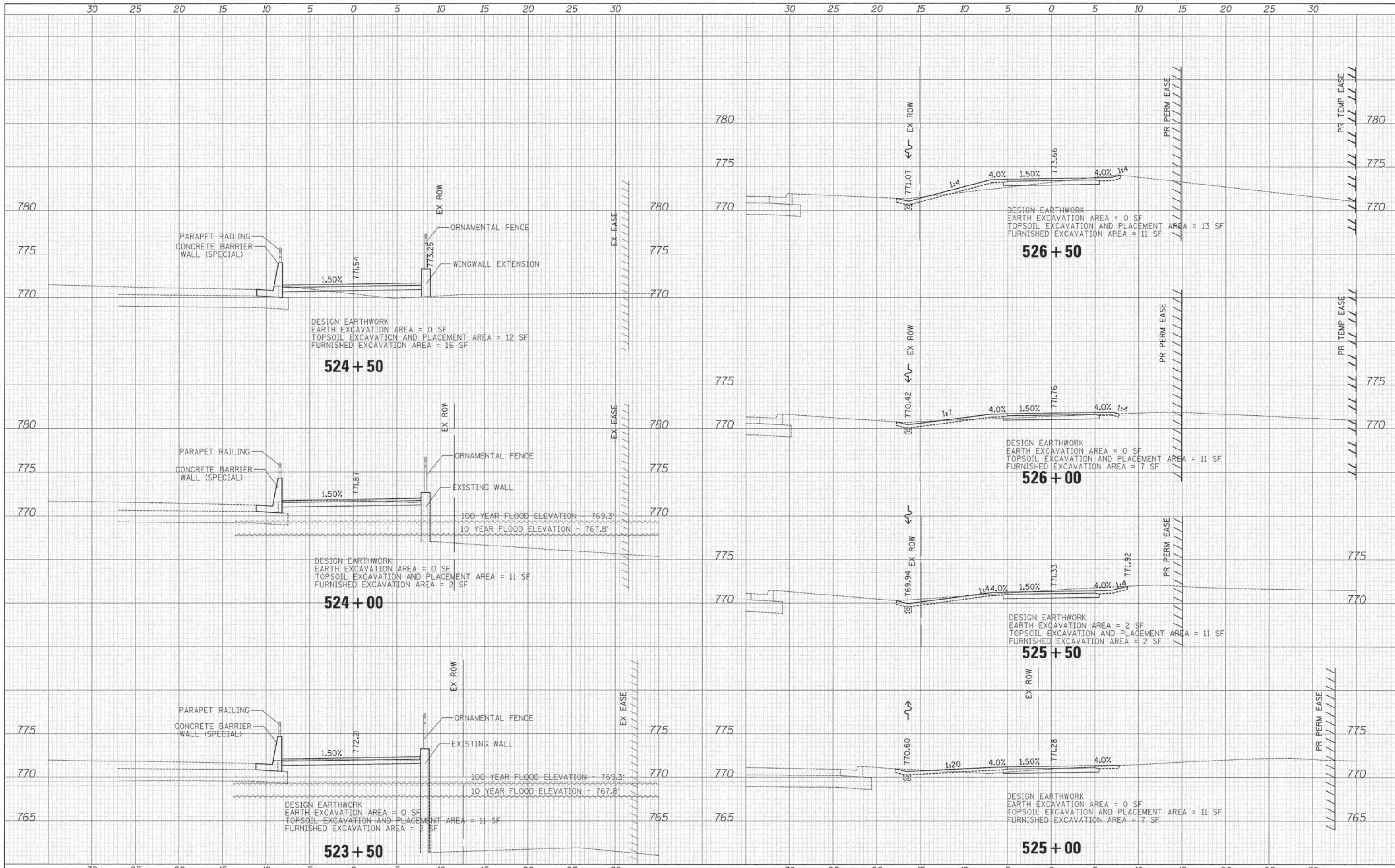
CROSS SECTIONS- WASHINGTON STREET

SHEET NO. 7 OF 11 SHEETS STA. 520+50 TO STA. 523+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	65
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
DESIGNED	
DRAWN	
CHECKED	
DATE	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



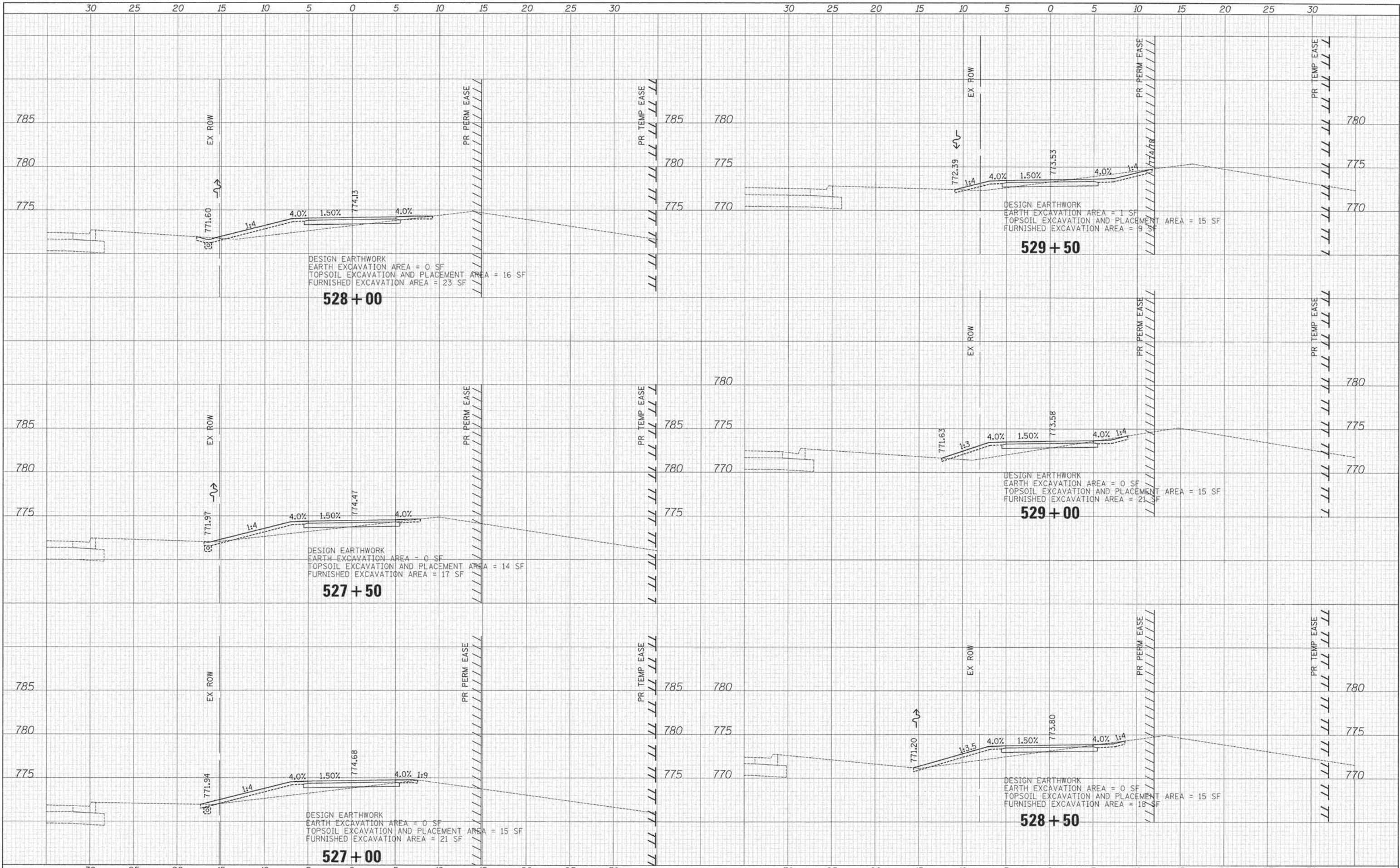
CROSS SECTIONS- WASHINGTON STREET

SHEET NO. 8 OF 11 SHEETS STA. 523+50 TO STA. 526+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	66
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



CROSS SECTIONS- WASHINGTON STREET

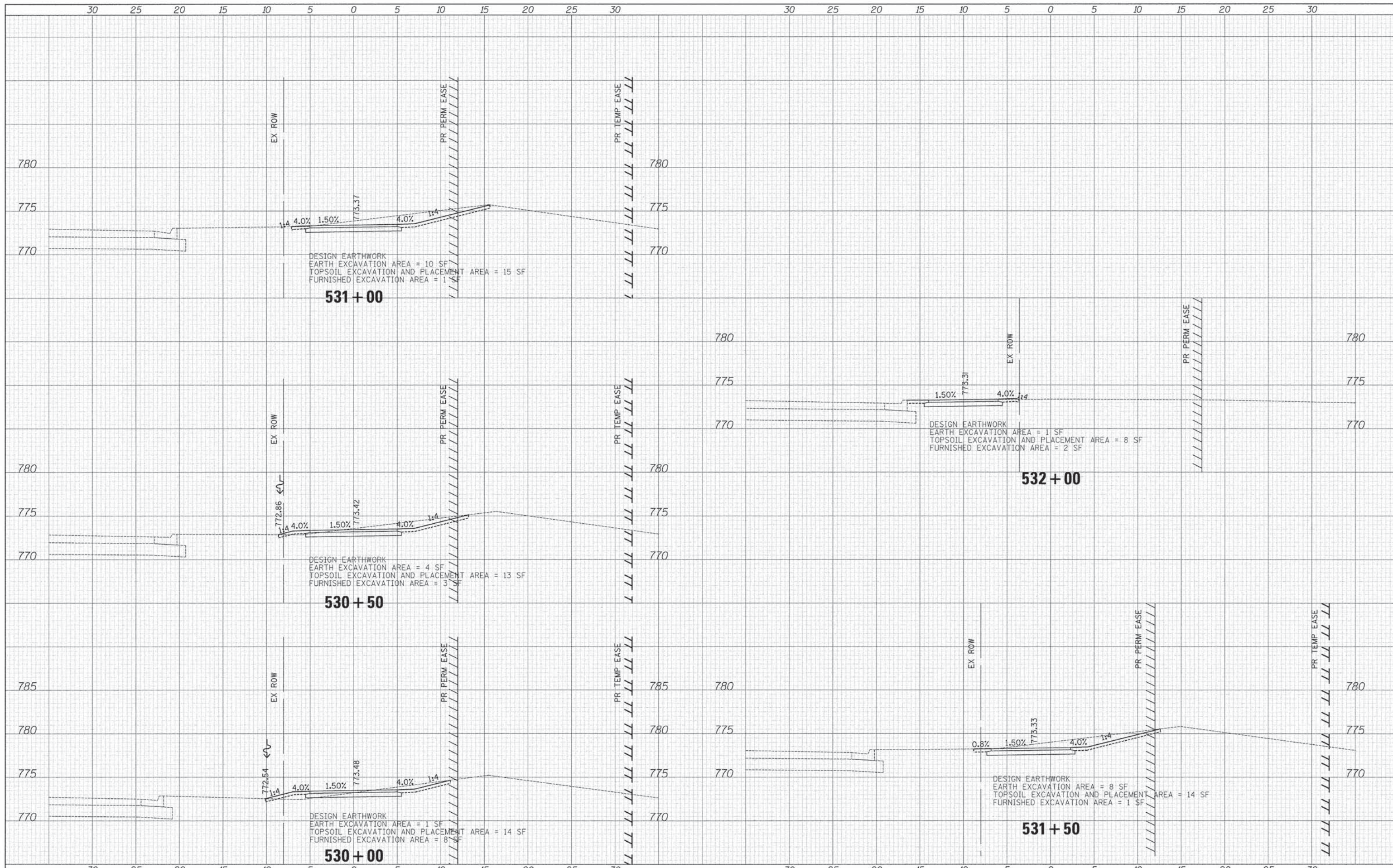
SHEET NO. 9 OF 11 SHEETS STA. 527+00 TO STA. 529+50

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 67
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT # 61A40

DATE	
BY	
SURVEYED	
PLANNED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLANNED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



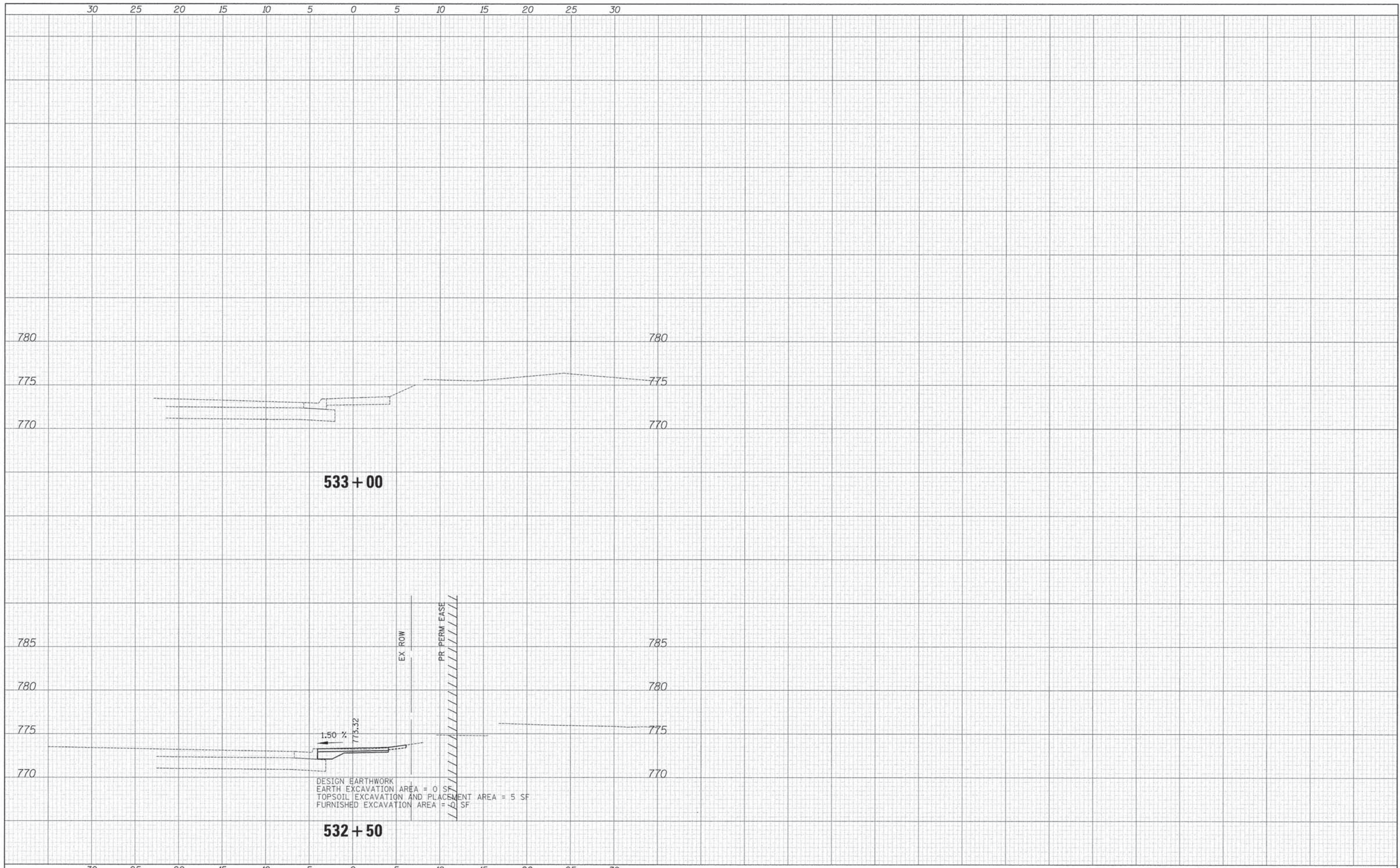
CROSS SECTIONS- WASHINGTON STREET

SHEET NO. 10 OF 11 SHEETS STA. 530+00 TO STA. 532+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	68
CONTRACT # 61440				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	

DATE	
BY	
SURVEYED	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	



CIVILTECH
 450 E Devon Ave, Suite 300
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



CROSS SECTIONS- WASHINGTON STREET

SHEET NO. 11 OF 11 SHEETS STA. 532+50 TO STA. 533+52.92

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	69
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				